A.G. WASSENAAR, INC.

CONSTRUCTION OBSERVATION AND TESTING REPORT FOR

COMPARK VILLAGE SOUTH, FILING 1 INFRASTRUCTURE
PEORIA AND BELFORD
PARKER, COLORADO

PREPARED FOR

BELFORD NORTH METROPOLITAN DISTRICT
C/O CLIFTON LARSON ALLEN
8390 EAST CRESCENT PARKWAY, SUITE 300
GREENWOOD VILLAGE, COLORADO 80111

MAY 4, 2022
REVISED AUGUST 24, 2022
PROJECT NUMBER 153733

3211 South Zuni Street • Englewood, Colorado 80110
www.agwco.com • Phone 303-759-8100

A.G. WASSENAAR, INC.

May 4, 2022
Revised August 24, 2022

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, Colorado 80111

Attention: Mr. CJ Kirst

Subject: **Construction Observation and Testing for**
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, Colorado
Project Number 153733

As requested, we have summarized our previously issued test reports in order to provide a more convenient record of this data:

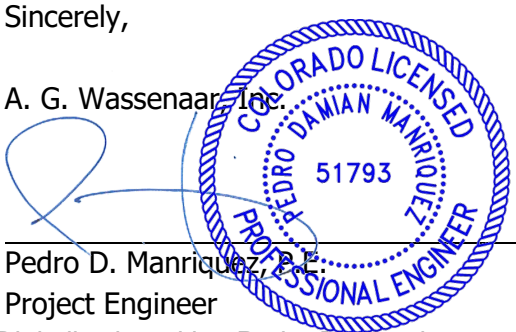
Section 1 provides referenced Town of Parker QCP.
Section 2 provides soils tests conducted.
Section 3 provides concrete tests conducted.
Section 4 provides asphalt tests conducted.
Section 5 provides tests plotted on plans.

We trust this consolidated report provides a more readily accessible format of the testing provided. Supplemental data may be issued in the future.

If we can be of further assistance, please do not hesitate to call.

Sincerely,

A. G. Wassenaar, Inc.



Pedro D. Manriquez, P.E.
Project Engineer
Digitally signed by: Pedro D. Manriquez
Date: 2022.08.25 15:50:26 -06'00'

PDM/ajj

SECTION 1

AGW
A.G. WASSENAAR, INC.

December 18, 2020

470 Compark, LLC By
MPV Compark Management, LLC
290 Filmore Street, Suite 2
Denver, Colorado 80206

Attention: Mr. Michael Vickers

Subject: Town of Parker QCP – Testing
Compark Village South, Filing 1
Peoria Street and Belford Avenue
Parker, Colorado
Project Number 153733

As requested, we are issuing this letter to summarize the anticipated required testing for the subject project.

We have attached "Appendix C" Minimum Inspections and Typical Minimum Testing Requirements, revised November 2012 as shown in the Roadway Design and Construction Criteria Manual (revised May 2018). The "inspections" are not addressed in this letter. Rather, Page 2 of this attachment provides the typical minimum testing frequency that we will substantially follow. It should be noted that proper scheduling by the Contractor is necessary to meet these requirements.

The QCP must also provide the projected number of tests required. We have summarized the anticipated testing as follows:

Item	Approximate Quantity	Projected Number of Tests
Sanitary Sewer	5,100 L. F.	500
Waterline	7,200 L. F.	150
Storm	4,800 L. F.	75
Curb and Gutter Subgrade	7,400 L. F.	35
Sidewalk Subgrade	0 L. F.	0
Roadway Subgrade	35,000 S.Y.	80
Inlet/Structure Concrete	22 each	40
Curb and Gutter Concrete	450 C.Y.	15
Sidewalk Concrete	0	0
Base Concrete	24,000 T.	60
Asphalt	11,000 T.	100
Concrete Pavement	1170 C.Y.	25

This testing summary is intended as a guideline only. Actual testing may be more, less or omitted entirely if not a construction element. We cannot include means, methods, techniques, or processes employed by the contractor.

Test results will be plotted on plan sheets and will be submitted to the Town of Parker.

If you have any questions, please do not hesitate to call.

Sincerely,

A. G. Wassenaar, Inc.

Thomas A. Hastings, S. E. T.
Vice President

Reviewed by:



Pedro D. Manriquez, P.E.
Project Engineer

Attachment

TAH/PDM/ajj

Appendix C

Minimum Inspections & Typical Minimum Testing
Revised November 2012
Number of Pages: 2

Parker COLORADO

Minimum Inspections

General Note: All inspections require 24 hour (1 business day) advanced notice to the Town of Parker. Inspections will be performed Monday-Friday, 8 AM-5 PM.

Spec#	Item	Inspection required	Frequency
203	Potholing	Pavement restoration	Daily
203	Proofrolling (Subgrade)	All subgrades within ROW, prior to placing any base layer or pavement layer.	All subgrade
206	Structural Backfill (structures)	Subgrade, tie holes patched	Prior to backfill
206	Structural Backfill (pipe)	Trench subgrade, bedding	Prior to backfill
208	Erosion Control	Initial BMP installation, 2 week inspection, after each weather event	Per Town Criteria
210	Reset Structures	Manhole and valve adjustment	Each Structure
304	Aggregate Base Course	Proofrolling	Prior to form placement or paving
307	Treated Subgrade or Base	Proofrolling	Each day
401, 403	Hot Mix Asphalt	Proofroll, temperatures, placement	Each day
401, 403	Asphalt Patching	Patch preparation, temperature, placement	Each day
407	Tack Coat	Surface conditions, rate of application	Each day
408	Joint and Crack Sealant	Joint or crack condition, temperature, placement	Each day
412	Concrete Pavement (Pre-pour)	Proofroll, grade checks, weather protection	Prior to form placement or paving
412	Concrete Pavement	Temperature, dowel basket and tie bar placement, forms, concrete placement, flow test	Each day
412	Concrete Pavement (Panel Replacement or patching)	Temperature, dowel basket and tie bar placement, concrete placement	Each day
503	Drilled Caissons	Condition of hole, rebar and anchor bolt placement, concrete placement	Each caisson
603	Culverts and Sewers	Pipe, gaskets or mechanical connections, line and grade, bedding	Each day
604	Manholes, Inlets and Vaults	Foundation soils, forms, rebar, concrete placement	Each structure
608	Sidewalks and Bikeways	Proofroll, forms, grades, concrete placement	Each day
608	Curb Ramps	Forms, grades, concrete placement, flow test	Each day
609	Curb and Gutter	Proofroll, forms, grades, concrete placement, flow test	Each day
609	Concrete Crosspan	Proofroll, forms, rebar, grades, concrete placement, flow test	Each day
610	Median Cover Material	Subgrade, expansion board, concrete placement	Each day
612	Delineators/Reflectors	Placement	Each day
614	Traffic Sign Installation	Placement	Each day
627	Pavement Markings	Temperature, layout, placement	Each day
630	Construction Zone Traffic Control	Initial installation and daily, as required	Each MHT

Parker COLORADO

Typical Minimum Testing Requirements

General Note: All items above are generalizations; please reference Town of Parker Roadway Design and Construction Criteria Manual, the Colorado Deptartment of Transportation (CDOT) Specifications and the CDOT Field Materials Manual for additional information. Testing frequencies may be adjusted by the Town based on site conditions.

SPEC #	ITEM	TYPE OF TEST	FREQUENCY
203	Roadway (Subgrade)	Moisture/Density	1 per 500 LF every 1' of fill, each lane
203	Roadway (Subgrade)	Proof Roll	All subgrade
203	Utilities; gas electric, phone & cable TV trenches	Moisture/Density	1 per 250 LF every 1' of backfill & each 1' lift within 1' of all structures
301	Roadway (Base Course)	Gradation & Atterberg Limits	1 per 1,000 tons
304	Roadway (Base Course)	Moisture/Density	1 per 500 LF each lane and 1 per each 1' lift within 1' of all structures
304, 203	Roadway (Base Course)	Proof Roll	All subgrade, each day
401	Roadway (Asphalt)	Asphalt Cement Content, Gradiation, Max Theoretical	1 per 1,000 tons, minimum 1 per day
401	Roadway (Asphalt) (Full Time Tester Required)	Density	1 per 500 LF each lane, all lifts
401, 412	Roadway (Asphalt & Concrete)	Cores (Density & Thickness Verification)	1 per 500 LF each lane
412	Roadway (Concrete) (Full Time Tester Required)	Slump, Air, Cylinders	First 3 batches. If passing, every 100 CY thereafter.One (1) set cylinders cast for every 100 CY.
603	Sanitary Sewer/Sanitary Service	Moisture/Density	1 per 200 LF for every 1' lift of backfill & each 1' lift within 1' of all structures. Each 1' lift every service and all isolated runs.
603	Storm Sewer	Moisture/Density	1 per 200 LF every 1' lift of backfill & each 1' lift within 1' of all structures.
604	Inlets and Manholes (Concrete)	Slump, Air, Cylinders, Reinforcing Steel	1 per day
604, 206	Inlets and Manhole	Moisture/Density	Each 1' of backfill lift around structure
608	Sidewalk, Curb & Gutter	Slump, Air, Cylinders	Machine - First 3 trucks. If passing, then 1 per 100 CY yds. Hand - 2 trucks day. If passing, then 1 per 50 CY yds.
608, 203	Sidewalk, Curb & Gutter	Moisture/Density	1 per 250 LF every 6" of fill
608, 203	Sidewalk, Curb & Gutter	Proof Roll	All subgrade
619	Water Main/Water Service	Moisture/Density	1 per 250 LF every 1' of backfill & each lift within 1' of all structures. Each service trench every 1' of backfill. 80% of tests under pavement.

SECTION 2

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000001
Report Date: 3/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1		2/10/21	14	ASTM D1557	A-2-4	13.0	116.6	13.4	115.8	131.3	8	99	95	-2 / 2	Pass
2		2/10/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	114.8	129.4	8	98	95	-2 / 2	Pass
3		2/10/21	14	ASTM D1557	A-2-4	13.0	116.6	12.4	113.8	127.9	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1	Sanitary Sewer Manhole: Existing SSMH-2, 5' west	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
2	Sanitary Sewer Manhole: Existing SSMH-2, 5' west	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
3	Sanitary Sewer Manhole: Existing SSMH-2, 5' west	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

3: The Contactor, Iron Woman, utilized a compaction wheel on an excavator to place and apply compactive effort to the fill. One hose attached to a water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000002
Report Date: 3/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
4		2/11/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	115.3	128.9	8	99	95	-2 / 2	Pass
5		2/11/21	02	ASTM D698	A-6	15.2	109.4	16.9	106.0	123.9	8	97	95	0 / 4	Pass
6		2/11/21	02	ASTM D698	A-6	15.2	109.4	17.3	104.2	122.2	8	95	95	0 / 4	Pass
7		2/11/21	02	ASTM D698	A-6	15.2	109.4	17.7	105.7	124.4	8	97	95	0 / 4	Pass
8		2/11/21	02	ASTM D698	A-6	15.2	109.4	16.8	107.9	126.0	8	99	95	0 / 4	Pass
9		2/11/21	03	ASTM D698	A-6	21.5	100.9	23.9	96.7	119.8	8	96	95	0 / 4	Pass
10		2/11/21	03	ASTM D698	A-6	21.5	100.9	23.8	97.1	120.2	8	96	95	0 / 4	Pass
11		2/11/21	01	ASTM D698	A-7-6	19.3	100.4	19.7	99.1	118.6	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
4	Sanitary Sewer Mainline: Station 15+75	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
5	Sanitary Sewer Mainline: Station 16+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
6	Sanitary Sewer Mainline: Station 16+25	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
7	Sanitary Sewer Mainline: Station 16+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
8	Sanitary Sewer Mainline: Station 16+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
9	Sanitary Sewer Mainline: Station 17+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
10	Sanitary Sewer Mainline: Station 17+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
11	Sanitary Sewer Mainline: Station 17+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000002
Report Date: 3/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
12		2/11/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	106.0	121.4	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
12	Sanitary Sewer Mainline: Station 17+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

12: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to he utility trench backfill. Moisture was added to the fill with a water truck. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000003
Report Date: 3/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
13		2/16/21	06	ASTM D698	A-7-6	12.7	111.0	13.1	105.8	119.7	8	95	95	0 / 4	Pass
14		2/16/21	06	ASTM D698	A-7-6	12.7	111.0	12.8	110.8	125.0	8	100	95	0 / 4	Pass
15		2/16/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	110.5	124.8	8	100	95	0 / 4	Pass
16		2/16/21	01	ASTM D698	A-7-6	19.3	100.4	20.6	97.9	118.1	8	98	95	0 / 4	Pass
17		2/16/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	110.2	127.3	8	99	95	0 / 4	Pass
18		2/16/21	01	ASTM D698	A-7-6	19.3	100.4	19.9	98.6	118.2	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
13	Sanitary Sewer Mainline: Station 18+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
14	Sanitary Sewer Mainline: Station 18+25	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
15	Sanitary Sewer Mainline: Station 18+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
16	Sanitary Sewer Mainline: Station 18+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
17	Sanitary Sewer Mainline: Station 19+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
18	Sanitary Sewer Mainline: Station 19+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

18: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to he utility trench backfill. Moisture was added to the fill with a water truck. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000004
Report Date: 3/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
19		2/17/21	01	ASTM D698	A-7-6	19.3	100.4	19.7	99.6	119.2	8	99	95	0 / 4	Pass
20		2/17/21	01	ASTM D698	A-7-6	19.3	100.4	20.9	97.0	117.3	8	97	95	0 / 4	Pass
21		2/17/21	06	ASTM D698	A-7-6	12.7	111.0	14.2	106.0	121.1	8	95	95	0 / 4	Pass
22		2/17/21	01	ASTM D698	A-7-6	19.3	100.4	19.4	99.9	119.3	8	100	95	0 / 4	Pass
23		2/17/21	01	ASTM D698	A-7-6	19.3	100.4	19.8	98.5	118.0	8	98	95	0 / 4	Pass
24		2/17/21	06	ASTM D698	A-7-6	12.7	111.0	13.1	110.6	125.1	8	100	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
19	Sanitary Sewer Manhole: SSMH-3, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
20	Sanitary Sewer Manhole: SSMH-3, east side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
21	Sanitary Sewer Manhole: SSMH-3, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
22	Sanitary Sewer Manhole: SSMH-3, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
23	Sanitary Sewer Manhole: SSMH-3, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
24	Sanitary Sewer Mainline: Station 20+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

24: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to he utility trench backfill. Moisture was added to the fill with a water truck. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000005
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
25		2/18/21	14	ASTM D1557	A-2-4	13.0	116.6	11.1	116.0	128.9	8	99	95	-2 / 2	Pass
26		2/18/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	111.1	123.9	8	95	95	-2 / 2	Pass
27		2/18/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	114.5	127.6	8	98	95	-2 / 2	Pass
28		2/18/21	06	ASTM D698	A-7-6	12.7	111.0	13.1	108.2	122.4	8	97	95	0 / 4	Pass
29		2/18/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	113.6	128.0	8	97	95	-2 / 2	Pass
30		2/18/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	106.8	122.3	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
25	Sanitary Sewer Mainline: Station 20+25	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
26	Sanitary Sewer Mainline: Station 20+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
27	Sanitary Sewer Mainline: Station 20+75	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
28	Sanitary Sewer Mainline: Station 21+00	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
29	Sanitary Sewer Mainline: Station 21+25	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
30	Sanitary Sewer Mainline: Station 21+50	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

30: The Contactor, Iron Woman, utilized one excavator with a wheel attachment to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000006
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
31		2/19/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	114.2	128.0	8	98	95	-2 / 2	Pass
32		2/19/21	14	ASTM D1557	A-2-4	13.0	116.6	14.6	112.1	128.5	8	96	95	-2 / 2	Pass
33		2/19/21	06	ASTM D698	A-7-6	12.7	111.0	13.9	110.5	125.9	8	100	95	0 / 4	Pass
34		2/19/21	06	ASTM D698	A-7-6	12.7	111.0	13.8	109.4	124.5	8	99	95	0 / 4	Pass
35		2/19/21	06	ASTM D698	A-7-6	12.7	111.0	14.1	108.0	123.2	8	97	95	0 / 4	Pass
36		2/19/21	06	ASTM D698	A-7-6	12.7	111.0	15.8	107.0	123.9	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
31	Sanitary Sewer Mainline: Station 21+75	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
32	Sanitary Sewer Mainline: Station 22+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
33	Sanitary Sewer Manhole: SSMH-4, west side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
34	Sanitary Sewer Manhole: SSMH-4, east side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
35	Sanitary Sewer Manhole: SSMH-4, north side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
36	Sanitary Sewer Manhole: SSMH-4, south side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

36: The Contactor, Iron Woman, utilized one excavator with a wheel attachment to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000007
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
37		2/22/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	111.6	126.1	8	96	95	-2 / 2	Pass
38		2/22/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	115.8	131.0	8	99	95	-2 / 2	Pass
39		2/22/21	14	ASTM D1557	A-2-4	13.0	116.6	12.3	113.1	127.0	8	97	95	-2 / 2	Pass
40		2/22/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	110.7	125.0	8	100	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
37	Sanitary Sewer Manhole: SSMH-4, west side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
38	Sanitary Sewer Manhole: SSMH-4, east side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
39	Sanitary Sewer Manhole: SSMH-4, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
40	Sanitary Sewer Manhole: SSMH-4, south side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

40: The Contactor, Iron Woman, utilized one excavator with a wheel attachment to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000008
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
41		2/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.3	114.7	127.7	8	98	95	-2 / 2	Pass
42		2/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.0	112.5	124.9	8	96	95	-2 / 2	Pass
43		2/23/21	06	ASTM D698	A-7-6	12.7	111.0	13.2	106.4	120.4	8	96	95	0 / 4	Pass
44		2/23/21	06	ASTM D698	A-7-6	12.7	111.0	12.8	110.6	124.8	8	100	95	0 / 4	Pass
45		2/23/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	115.8	130.6	8	99	95	-2 / 2	Pass
46		2/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.6	116.1	129.6	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
41	Sanitary Sewer Manhole: SSMH-4, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
42	Sanitary Sewer Manhole: SSMH-4, east side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
43	Sanitary Sewer Manhole: SSMH-4, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
44	Sanitary Sewer Manhole: SSMH-4, south side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
45	Sanitary Sewer Manhole: SSMH-4, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
46	Sanitary Sewer Manhole: SSMH-4, east side	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

46: The Contactor, Iron Woman, utilized one excavator with a wheel attachment to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000009
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
47		2/24/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	111.0	125.3	8	100	95	0 / 4	Pass
48		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.6	127.0	8	96	95	-2 / 2	Pass
49		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	115.5	129.6	8	99	95	-2 / 2	Pass
50		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	115.1	130.4	8	99	95	-2 / 2	Pass
51		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	113.1	129.0	8	97	95	-2 / 2	Pass
52		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	114.3	129.7	8	98	95	-2 / 2	Pass
53		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	111.9	127.9	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
47	Water Main: Plan: 12" WATERLINE, Station 13+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
48	Water Main: Plan: 12" WATERLINE, Station 13+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
49	Water Main: Plan: 12" WATERLINE, Station 14+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
50	Water Main: Plan: 12" WATERLINE, Station 14+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
51	Water Main: Plan: 12" WATERLINE, Station 14+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
52	Water Main: Plan: 12" WATERLINE, Station 14+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
53	Water Main: Plan: 12" WATERLINE, Station 15+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

53: The Contactor, Iron Woman, utilized one excavator to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000009
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
47		2/24/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	111.0	125.3	8	100	95	0 / 4	Pass
48		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.6	127.0	8	96	95	-2 / 2	Pass
49		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	115.5	129.6	8	99	95	-2 / 2	Pass
50		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	115.1	130.4	8	99	95	-2 / 2	Pass
51		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	113.1	129.0	8	97	95	-2 / 2	Pass
52		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	114.3	129.7	8	98	95	-2 / 2	Pass
53		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	111.9	127.9	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
47	Water Main: Plan: 12" WATERLINE, Station 13+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
48	Water Main: Plan: 12" WATERLINE, Station 13+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
49	Water Main: Plan: 12" WATERLINE, Station 14+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
50	Water Main: Plan: 12" WATERLINE, Station 14+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
51	Water Main: Plan: 12" WATERLINE, Station 14+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
52	Water Main: Plan: 12" WATERLINE, Station 14+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
53	Water Main: Plan: 12" WATERLINE, Station 15+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

53: The Contactor, Iron Woman, utilized one excavator to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000009
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
47		2/24/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	111.0	125.3	8	100	95	0 / 4	Pass
48		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.6	127.0	8	96	95	-2 / 2	Pass
49		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	115.5	129.6	8	99	95	-2 / 2	Pass
50		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	115.1	130.4	8	99	95	-2 / 2	Pass
51		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	113.1	129.0	8	97	95	-2 / 2	Pass
52		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	114.3	129.7	8	98	95	-2 / 2	Pass
53		2/24/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	111.9	127.9	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
47	Water Main: Plan: 12" WATERLINE, Station 13+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
48	Water Main: Plan: 12" WATERLINE, Station 13+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
49	Water Main: Plan: 12" WATERLINE, Station 14+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
50	Water Main: Plan: 12" WATERLINE, Station 14+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
51	Water Main: Plan: 12" WATERLINE, Station 14+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
52	Water Main: Plan: 12" WATERLINE, Station 14+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
53	Water Main: Plan: 12" WATERLINE, Station 15+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

53: The Contactor, Iron Woman, utilized one excavator to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
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Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000010
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
54		3/1/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	108.6	124.9	8	98	95	0 / 4	Pass
55		3/1/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	109.1	123.3	8	98	95	0 / 4	Pass
56		3/1/21	12	ASTM D698	A-6	14.1	116.4	15.3	111.1	128.1	8	95	95	0 / 4	Pass
57		3/1/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	112.0	127.7	8	96	95	-2 / 2	Pass
58		3/1/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	113.1	127.6	8	97	95	-2 / 2	Pass
59		3/1/21	06	ASTM D698	A-7-6	12.7	111.0	13.1	110.0	124.4	8	99	95	0 / 4	Pass
60		3/1/21	06	ASTM D698	A-7-6	12.7	111.0	15.4	107.8	124.4	8	97	95	0 / 4	Pass
61		3/1/21	06	ASTM D698	A-7-6	12.7	111.0	13.7	109.3	124.3	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
54	Water Main: Plan: 12" WATERLINE, Station 15+25	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
55	Water Main: Plan: 12" WATERLINE, Station 15+20	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
56	Water Main: Plan: 12" WATERLINE, Station 15+15	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
57	Water Main: Plan: 12" WATERLINE, Station 15+25	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
58	Water Main: Plan: 12" WATERLINE, Station 15+20	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
59	Water Main: Plan: 12" WATERLINE, Station 15+15	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
60	Water Main: Plan: 12" WATERLINE, Station 15+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
61	Water Main: Plan: 12" WATERLINE, Station 15+20	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000010
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
62		3/1/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	112.5	126.1	8	96	95	-2 / 2	Pass
63		3/1/21	06	ASTM D698	A-7-6	12.7	111.0	13.4	109.8	124.5	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
62	Water Main: Plan: 12" WATERLINE, Station 15+15	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
63	Water Main: Plan: 12" WATERLINE, Station 15+25	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

63: The Contactor, Iron Woman, utilized one excavator with a wheel attachment to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
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Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000011
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
64		3/2/21	14	ASTM D1557	A-2-4	13.0	116.6	14.7	112.6	129.2	8	97	95	-2 / 2	Pass
65		3/2/21	06	ASTM D698	A-7-6	12.7	111.0	16.0	107.2	124.4	8	97	95	0 / 4	Pass
66		3/2/21	02	ASTM D698	A-6	15.2	109.4	17.0	104.8	122.6	8	96	95	0 / 4	Pass
67		3/2/21	02	ASTM D698	A-6	15.2	109.4	15.3	108.3	124.9	8	99	95	0 / 4	Pass
68		3/2/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	110.4	124.8	8	99	95	0 / 4	Pass
69		3/2/21	06	ASTM D698	A-7-6	12.7	111.0	13.3	109.3	123.8	8	98	95	0 / 4	Pass
70		3/2/21	06	ASTM D698	A-7-6	12.7	111.0	14.0	108.7	123.9	8	98	95	0 / 4	Pass
71		3/2/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	110.7	125.0	8	100	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
64	Sanitary Sewer Manhole: SSMH-17, north side	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
65	Sanitary Sewer Manhole: SSMH-17, east side	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
66	Sanitary Sewer Manhole: SSMH-17, south side	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
67	Sanitary Sewer Manhole: SSMH-17, north side	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
68	Sanitary Sewer Manhole: SSMH-17, east side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
69	Sanitary Sewer Manhole: SSMH-17, south side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
70	Sanitary Sewer Manhole: SSMH-17, north side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
71	Sanitary Sewer Manhole: SSMH-17, east side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
2180 South Ivanhoe Street, Suite 5
Denver,
Phone: (303) 759-8100

Fill Testing

Report #: FT-000011
Report Date: 3/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. **71:** The Contactor, Iron Woman, utilized one excavator with a wheel attachment to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material. West side of SSMH-17 to be excavated for continuation of sewer line at later point.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

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Field Services
2180 South Ivanhoe Street, Suite 5
Denver, CO 80222
Phone: (303) 759-8100

Fill Testing

Report #: FT-000012
Report Date: 3/15/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
72		3/3/21	06	ASTM D698	A-7-6	12.7	111.0	15.1	106.3	122.4	8	96	95	0 / 4	Pass
73		3/3/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	113.0	127.9	8	97	95	-2 / 2	Pass
74		3/3/21	06	ASTM D698	A-7-6	12.7	111.0	14.8	108.0	124.0	8	97	95	0 / 4	Pass
75		3/3/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	111.3	126.3	8	95	95	-2 / 2	Pass
76		3/3/21	02	ASTM D698	A-6	15.2	109.4	16.4	105.3	122.6	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
72	Sanitary Sewer Manhole: SSMH-17, south side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
73	Sanitary Sewer Manhole: SSMH-17, north side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
74	Sanitary Sewer Manhole: SSMH-17, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
75	Sanitary Sewer Manhole: SSMH-17, south side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
76	Sanitary Sewer Manhole: SSMH-17, north side	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

76: The Contactor, Iron Woman, utilized one excavator to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

West side of SSMH-17 to be excavated for continuation of sewer line at later point.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000013
Report Date: 3/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
77		3/3/21	17	ASTM D1557	A-2-4	8.3	128.6	8.2	123.0	133.1	8	96	95	-2 / 2	Pass
78		3/3/21	17	ASTM D1557	A-2-4	8.3	128.6	9.0	122.8	133.9	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
77	Sidewalk R&R: Happy Canyon Creek, 120' south of Highway E-470	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
78	Sidewalk R&R: Happy Canyon Creek, 175' south of Highway E-470	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

78: The Contactor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000014
Report Date: 3/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
79		3/4/21	01	ASTM D698	A-7-6	19.3	100.4	18.5	96.7	114.6	8	96	95	0 / 4	Fail
80	79	3/4/21	01	ASTM D698	A-7-6	19.3	100.4	19.4	98.1	117.1	8	98	95	0 / 4	Pass
81		3/4/21	01	ASTM D698	A-7-6	19.3	100.4	19.5	98.7	117.9	8	98	95	0 / 4	Pass
82		3/4/21	01	ASTM D698	A-7-6	19.3	100.4	19.2	94.7	112.9	8	94	95	0 / 4	Fail
83	82	3/4/21	01	ASTM D698	A-7-6	19.3	100.4	19.7	99.0	118.5	8	99	95	0 / 4	Pass
84		3/4/21	01	ASTM D698	A-7-6	19.3	100.4	20.0	97.2	116.6	8	97	95	0 / 4	Pass
85		3/4/21	01	ASTM D698	A-7-6	19.3	100.4	20.6	96.1	115.9	8	96	95	0 / 4	Pass
86		3/4/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	106.8	123.4	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
79	Water Main: Plan: 12" WATERLINE, Station 13+25	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
80	Water Main: Plan: 12" WATERLINE, Station 13+25	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
81	Water Main: Plan: 12" WATERLINE, Station 13+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
82	Water Main: Plan: 12" WATERLINE, Station 12+75	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
83	Water Main: Plan: 12" WATERLINE, Station 12+75	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
84	Water Main: Plan: 12" WATERLINE, Station 12+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
85	Water Main: Plan: 12" WATERLINE, Station 12+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
86	Sanitary Sewer Mainline: Station 10+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Fail: Density Pass / Moisture Fail

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000014
Report Date: 3/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
87		3/4/21	02	ASTM D698	A-6	15.2	109.4	17.1	101.9	119.3	8	93	95	0 / 4	Fail
88	87	3/4/21	02	ASTM D698	A-6	15.2	109.4	16.7	104.1	121.5	8	95	95	0 / 4	Pass
89		3/4/21	02	ASTM D698	A-6	15.2	109.4	16.9	105.1	122.9	8	96	95	0 / 4	Pass
90		3/4/21	02	ASTM D698	A-6	15.2	109.4	16.0	106.1	123.1	8	97	95	0 / 4	Pass
91		3/4/21	02	ASTM D698	A-6	15.2	109.4	16.6	105.0	122.4	8	96	95	0 / 4	Pass
92		3/4/21	16	ASTM D698	A-6	17.2	108.6	17.7	103.4	121.7	8	95	95	0 / 4	Pass
93		3/4/21	02	ASTM D698	A-6	15.2	109.4	16.5	105.9	123.4	8	97	95	0 / 4	Pass
94		3/4/21	12	ASTM D698	A-6	14.1	116.4	14.5	111.0	127.1	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
87	Sanitary Sewer Mainline: Station 11+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
88	Sanitary Sewer Mainline: Station 11+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
89	Sanitary Sewer Mainline: Station 11+25	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
90	Sanitary Sewer Mainline: Station 10+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
91	Sanitary Sewer Mainline: Station 11+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
92	Sanitary Sewer Manhole: SSMH-18, south side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
93	Sanitary Sewer Manhole: SSMH-18, north side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
94	Sanitary Sewer Manhole: SSMH-18, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Fail: Density Fail / Moisture Pass **Pass:** Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000014
Report Date: 3/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
95		3/4/21	02	ASTM D698	A-6	15.2	109.4	17.4	104.0	122.1	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
95	Sanitary Sewer Manhole: SSMH-18, west side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

95: The Contactor, Iron Woman, utilized one excavator to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
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Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000015
Report Date: 3/31/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
96		3/9/21	17	ASTM D1557	A-2-4	8.3	128.6	9.8	121.7	133.6	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
96	Sidewalk: Happy Canyon Creek, 150' east of Belford Avenue	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

96: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000016
Report Date: 4/2/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
97		3/11/21	16	ASTM D698	A-6	17.2	108.6	18.2	103.5	122.3	8	95	95	0 / 4	Pass
98		3/11/21	01	ASTM D698	A-7-6	19.3	100.4	20.1	96.6	116.0	8	96	95	0 / 4	Pass
99		3/11/21	09	ASTM D698	A-6	18.5	106.9	19.8	102.8	123.2	8	96	95	0 / 4	Pass
100		3/11/21	01	ASTM D698	A-7-6	19.3	100.4	20.7	95.8	115.6	8	95	95	0 / 4	Pass
101		3/11/21	18		Class 1	7.1	141.9	5.8	135.6	143.5	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
97	Storm Sewer Main: PLAN: STORM-1, Station 2+25	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
98	Storm Sewer Main: PLAN: STORM-1, Station 2+20	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
99	Storm Sewer Main: PLAN: STORM-1, Station 2+15	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
100	Storm Sewer Main: PLAN: STORM-1, Station 2+10	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
101	Storm Sewer Main: PLAN: STORM-1, Station 2+00, left of pipe	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

101: The Contactor, Iron Woman, utilized an excavator with a wheel attachment and one Jumping Jack to place and apply compactive effort to the fill. Moisture was added to the fill.

Class 1 material was used up to the spring line.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000017
Report Date: 4/2/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
102		3/12/21	18		Class 1	7.1	141.9	5.7	137.0	144.8	8	97	95	-2 / 2	Pass
103		3/12/21	02	ASTM D698	A-6	15.2	109.4	18.0	106.7	125.9	8	98	95	0 / 4	Pass
104		3/12/21	01	ASTM D698	A-7-6	19.3	100.4	20.2	100.0	120.2	8	100	95	0 / 4	Pass
105		3/12/21	16	ASTM D698	A-6	17.2	108.6	20.0	107.1	128.5	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
102	Storm Sewer Main: PLAN: STORM-1, Station 3+00, right of pipe	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
103	Storm Sewer Main: PLAN: STORM-1, Station 2+80	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
104	Storm Sewer Main: PLAN: STORM-1, Station 2+90	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
105	Storm Sewer Main: PLAN: STORM-1, Station 3+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

102: The Contactor, Iron Woman, utilized one Jumping Jack to apply compactive effort to the fill. Class 1 material was used up to the spring line

105: The Contactor, Iron Woman, utilized one excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000018
Report Date: 4/2/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
106		3/19/21	18		Class 1	7.1	141.9	6.0	136.3	144.5	8	96	95	-2 / 2	Pass
107		3/19/21	01	ASTM D698	A-7-6	19.3	100.4	22.3	98.3	120.2	8	98	95	0 / 4	Pass
108		3/19/21	01	ASTM D698	A-7-6	19.3	100.4	22.7	97.2	119.3	8	97	95	0 / 4	Pass
109		3/19/21	02	ASTM D698	A-6	15.2	109.4	18.4	107.0	126.7	8	98	95	0 / 4	Pass
110		3/19/21	02	ASTM D698	A-6	15.2	109.4	18.8	105.9	125.8	8	97	95	0 / 4	Pass
111		3/19/21	18		Class 1	7.1	141.9	7.9	135.9	146.6	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
106	Storm Sewer Main: PLAN: STORM-1, Station 3+75, left side	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
107	Storm Sewer Main: PLAN: STORM-1, Station 2+20	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
108	Storm Sewer Main: PLAN: STORM-1, Station 2+75	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
109	Storm Sewer Main: PLAN: STORM-1, Station 2+85	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
110	Storm Sewer Main: PLAN: STORM-1, Station 3+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
111	Storm Sewer Main: PLAN: STORM-2, Station 2+50, left side	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

106, 111: The Contactor, Iron Woman, utilized one Jumping Jack to apply compactive effort to the fill. Class 1 material was used up to the spring line

110: The Contactor, Iron Woman, utilized one excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000019
Report Date: 4/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
112		3/26/21	18		Class 1	7.1	141.9	6.7	136.2	145.3	8	96	95	-2 / 2	Pass
113		3/26/21	09	ASTM D698	A-6	18.5	106.9	20.8	101.8	123.0	8	95	95	0 / 4	Pass
114		3/26/21	09	ASTM D698	A-6	18.5	106.9	21.9	102.3	124.7	8	96	95	0 / 4	Pass
115		3/26/21	01	ASTM D698	A-7-6	19.3	100.4	21.8	95.8	116.7	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
112	Storm Sewer Main: PLAN: STORM-2, Station 3+25, right side	0.0	TSL	Troxler / 3430 / 22405 /	Caperton, Mason
113	Storm Sewer Main: PLAN: STORM-2, Station 2+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
114	Storm Sewer Main: PLAN: STORM-2, Station 2+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
115	Storm Sewer Main: PLAN: STORM-2, Station 3+25	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

115: The Contactor, Iron Woman, utilized one Jumping Jack to apply compactive effort to the fill. Class 1 material was used up to the spring line.

The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000020
Report Date: 4/22/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
116		4/5/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	108.1	122.0	8	97	95	0 / 4	Pass
117		4/5/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	105.6	121.4	8	95	95	0 / 4	Pass
118		4/5/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	112.8	126.6	8	97	95	-2 / 2	Pass
119		4/5/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	115.1	128.2	8	99	95	-2 / 2	Pass
120		4/5/21	18		Class 1	7.1	141.9	5.8	135.1	142.9	8	95	95	-2 / 2	Pass
121		4/5/21	18		Class 1	7.1	141.9	5.5	136.3	143.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
116	Water Valve: 12" gate valve, CS-2-27, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
117	Water Valve: 12" gate valve, CS-2-27, east side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
118	Water Valve: 12" gate valve, CS-2-27, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
119	Water Valve: 12" gate valve, CS-2-27, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
120	Water Valve: 12" gate valve, CS-2-27, north side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
121	Water Valve: 12" gate valve, CS-2-27, south side	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

121: The Contactor, Iron Woman, utilized an excavator and jumping jacks to place and apply compactive effort to the fill. Moisture was added to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000021
Report Date: 5/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
122		5/8/21	01	ASTM D698	A-7-6	19.3	100.4	21.2	100.1	121.3	8	100	95	0 / 4	Pass
123		5/8/21	09	ASTM D698	A-6	18.5	106.9	20.4	101.9	122.7	8	95	95	0 / 4	Pass
124		5/8/21	01	ASTM D698	A-7-6	19.3	100.4	22.1	99.2	121.1	8	99	95	0 / 4	Pass
125		5/8/21	09	ASTM D698	A-6	18.5	106.9	19.9	102.6	123.0	8	96	95	0 / 4	Pass
126		5/8/21	09	ASTM D698	A-6	18.5	106.9	19.7	106.3	127.2	8	99	95	0 / 4	Pass
127		5/8/21	09	ASTM D698	A-6	18.5	106.9	20.1	104.7	125.7	8	98	95	0 / 4	Pass
128		5/8/21	01	ASTM D698	A-7-6	19.3	100.4	21.3	99.6	120.8	8	99	95	0 / 4	Pass
129		5/8/21	01	ASTM D698	A-7-6	19.3	100.4	22.5	99.9	122.4	8	100	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
122	Inlet: PLAN: STORM-1, Inlet 2-1, north side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
123	Inlet: PLAN: STORM-1, Inlet 2-1, east side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
124	Inlet: PLAN: STORM-1, Inlet 2-1, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
125	Inlet: PLAN: STORM-1, Inlet 2-1, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
126	Inlet: PLAN: STORM-1, Inlet 2-1, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
127	Inlet: PLAN: STORM-1, Inlet 1-1, east side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
128	Inlet: PLAN: STORM-1, Inlet 1-1, west side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
129	Inlet: PLAN: STORM-1, Inlet 1-1, south side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000021
Report Date: 5/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
130		5/8/21	09	ASTM D698	A-6	18.5	106.9	20.8	103.4	124.9	8	97	95	0 / 4	Pass
131		5/8/21	16	ASTM D698	A-6	17.2	108.6	18.8	105.4	125.2	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
130	Inlet: PLAN: STORM-1, Inlet 1-1, north side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
131	Inlet: PLAN: STORM-1, Inlet 1-1, east side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

131: The Contactor, Iron Woman, utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000022
Report Date: 5/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
132		5/18/21	15	ASTM D698	A-6	21.2	103.0	25.1	101.0	126.4	8	98	95	0 / 4	Pass
133		5/18/21	15	ASTM D698	A-6	21.2	103.0	24.8	99.6	124.3	8	97	95	0 / 4	Pass
134		5/18/21	15	ASTM D698	A-6	21.2	103.0	23.1	97.8	120.4	8	95	95	0 / 4	Pass
135		5/18/21	15	ASTM D698	A-6	21.2	103.0	21.9	100.2	122.1	8	97	95	0 / 4	Pass
136		5/18/21	15	ASTM D698	A-6	21.2	103.0	23.5	98.0	121.0	8	95	95	0 / 4	Pass
137		5/18/21	15	ASTM D698	A-6	21.2	103.0	22.0	98.3	119.9	8	95	95	0 / 4	Pass
138		5/18/21	03	ASTM D698	A-6	21.5	100.9	21.8	96.8	117.9	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
132	Outlet: PLAN: STORM-2, Modified Type D, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
133	Outlet: PLAN: STORM-2, Modified Type D, east side	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
134	Inlet: PLAN: STORM-2, Inlet 2-1, east side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
135	Inlet: PLAN: STORM-1, Inlet 2-1, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
136	Inlet: PLAN: STORM-1, Inlet 2-1, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
137	Inlet: PLAN: STORM-1, Inlet 2-1, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
138	Inlet: PLAN: STORM-1, Inlet 2-1, east side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

138: The Contactor, Iron Woman, utilized oan excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000023
Report Date: 5/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
139		5/19/21	06	ASTM D698	A-7-6	12.7	111.0	15.2	107.6	124.0	8	97	95	0 / 4	Pass
140		5/19/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	112.0	125.1	8	96	95	-2 / 2	Pass
141		5/19/21	14	ASTM D1557	A-2-4	13.0	116.6	11.0	114.6	127.2	8	98	95	-2 / 2	Pass
142		5/19/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	109.1	124.9	8	98	95	0 / 4	Pass
143		5/19/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	112.8	127.4	8	97	95	-2 / 2	Pass
144		5/19/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	113.4	129.0	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
139	Sanitary Sewer Manhole: Belford Avenue, SSMH 17, west side	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
140	Sanitary Sewer Manhole: Belford Avenue, SSMH 17, west side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
141	Sanitary Sewer Manhole: Belford Avenue, SSMH 17, west side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
142	Sanitary Sewer Manhole: Belford Avenue, SSMH 17, west side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
143	Sanitary Sewer Manhole: Belford Avenue, SSMH 17, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
144	Sanitary Sewer Manhole: Belford Avenue, SSMH 17, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

144: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000024
Report Date: 5/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
145		5/20/21	06	ASTM D698	A-7-6	12.7	111.0	15.8	110.8	128.3	8	100	95	0 / 4	Pass
146		5/20/21	12	ASTM D698	A-6	14.1	116.4	16.3	111.2	129.3	8	96	95	0 / 4	Pass
147		5/20/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	114.6	127.8	8	98	95	-2 / 2	Pass
148		5/20/21	02	ASTM D698	A-6	15.2	109.4	16.0	108.2	125.5	8	99	95	0 / 4	Pass
149		5/20/21	14	ASTM D1557	A-2-4	13.0	116.6	11.6	113.1	126.2	8	97	95	-2 / 2	Pass
150		5/20/21	02	ASTM D698	A-6	15.2	109.4	15.5	109.1	126.0	8	100	95	0 / 4	Pass
151		5/20/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	111.6	126.4	8	96	95	-2 / 2	Pass
152		5/20/21	02	ASTM D698	A-6	15.2	109.4	16.2	107.6	125.0	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
145	Sanitary Sewer Mainline: Station 24+50	21.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
146	Sanitary Sewer Mainline: Station 24+25	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
147	Sanitary Sewer Mainline: Station 24+00	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
148	Sanitary Sewer Mainline: Station 23+75	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
149	Sanitary Sewer Mainline: Station 23+50	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
150	Sanitary Sewer Mainline: Station 24+75	22.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
151	Sanitary Sewer Mainline: Station 24+50	19.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
152	Sanitary Sewer Mainline: Station 24+25	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000024
Report Date: 5/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
153		5/20/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	109.5	125.9	8	99	95	0 / 4	Pass
154		5/20/21	14	ASTM D1557	A-2-4	13.0	116.6	14.8	111.7	128.2	8	96	95	-2 / 2	Pass
155		5/20/21	09	ASTM D698	A-6	18.5	106.9	18.8	107.0	127.1	8	100	95	0 / 4	Pass
156		5/20/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	111.9	127.1	8	96	95	-2 / 2	Pass
157		5/20/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	114.2	128.7	8	98	95	-2 / 2	Pass
158		5/20/21	06	ASTM D698	A-7-6	12.7	111.0	14.1	109.1	124.5	8	98	95	0 / 4	Pass
159		5/20/21	02	ASTM D698	A-6	15.2	109.4	18.9	105.8	125.8	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
153	Sanitary Sewer Mainline: Station 24+00	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
154	Sanitary Sewer Mainline: Station 23+75	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
155	Sanitary Sewer Mainline: Station 25+00	23.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
156	Sanitary Sewer Mainline: Station 24+75	20.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
157	Sanitary Sewer Mainline: Station 24+50	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
158	Sanitary Sewer Mainline: Station 24+25	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
159	Sanitary Sewer Mainline: Station 24+00	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

159: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill. Fill stopped 7' below subgrade

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000025
Report Date: 5/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
160		5/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.3	115.1	128.1	8	99	95	-2 / 2	Pass
161		5/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	116.4	129.8	8	100	95	-2 / 2	Pass
162		5/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	116.2	129.2	8	100	95	-2 / 2	Pass
163		5/21/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	114.2	128.0	8	98	95	-2 / 2	Pass
164		5/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	115.8	129.6	8	99	95	-2 / 2	Pass
165		5/21/21	02	ASTM D698	A-6	15.2	109.4	15.6	107.8	124.6	8	99	95	0 / 4	Pass
166		5/21/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	114.4	129.5	8	98	95	-2 / 2	Pass
167		5/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	116.5	130.4	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
160	Sanitary Sewer Mainline: Station 23+75	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
161	Sanitary Sewer Mainline: Station 25+25	23.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
162	Sanitary Sewer Mainline: Station 25+00	21.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
163	Sanitary Sewer Mainline: Station 24+75	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
164	Sanitary Sewer Mainline: Station 24+50	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
165	Sanitary Sewer Mainline: Station 24+25	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
166	Sanitary Sewer Mainline: Station 24+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
167	Sanitary Sewer Manhole: SSMH-5, north side	25.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000025
Report Date: 5/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
168		5/21/21	06	ASTM D698	A-7-6	12.7	111.0	13.2	112.1	126.9	8	101	95	0 / 4	Pass
169		5/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.4	111.5	128.7	8	100	95	0 / 4	Pass
170		5/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	116.9	130.0	8	100	95	-2 / 2	Pass
171		5/21/21	06	ASTM D698	A-7-6	12.7	111.0	12.3	108.4	121.7	8	98	95	0 / 4	Fail
172	171	5/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	110.8	127.4	8	100	95	0 / 4	Pass
173		5/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	114.3	127.7	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
168	Sanitary Sewer Manhole: SSMH-5, east side	24.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
169	Sanitary Sewer Manhole: SSMH-5, west side	23.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
170	Sanitary Sewer Manhole: SSMH-5, south side	22.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
171	Sanitary Sewer Manhole: SSMH-5, north side	21.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
172	Sanitary Sewer Manhole: SSMH-5, north side	21.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
173	Sanitary Sewer Manhole: SSMH-5, east side	20.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Pass / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

173: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000026
Report Date: 5/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
174		5/24/21	14	ASTM D1557	A-2-4	13.0	116.6	11.3	115.4	128.4	8	99	95	-2 / 2	Pass
175		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	109.6	123.7	8	99	95	0 / 4	Pass
176		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	15.8	109.3	126.6	8	98	95	0 / 4	Pass
177		5/24/21	02	ASTM D698	A-6	15.2	109.4	16.8	107.4	125.4	8	98	95	0 / 4	Pass
178		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	110.0	124.3	8	99	95	0 / 4	Pass
179		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	13.3	108.9	123.4	8	98	95	0 / 4	Pass
180		5/24/21	02	ASTM D698	A-6	15.2	109.4	17.3	106.6	125.0	8	97	95	0 / 4	Pass
181		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	13.8	108.0	122.9	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
174	Sanitary Sewer Manhole: SSMH-5, west side	19.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
175	Sanitary Sewer Manhole: SSMH-5, south side	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
176	Sanitary Sewer Manhole: SSMH-5, north side	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
177	Sanitary Sewer Manhole: SSMH-5, east side	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
178	Sanitary Sewer Manhole: SSMH-5, west side	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
179	Sanitary Sewer Manhole: SSMH-5, south side	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
180	Sanitary Sewer Manhole: SSMH-5, north side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
181	Sanitary Sewer Manhole: SSMH-5, east side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000026
Report Date: 5/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
182		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	16.3	108.2	125.8	8	97	95	0 / 4	Pass
183		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	12.8	109.7	123.7	8	99	95	0 / 4	Pass
184		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	12.7	110.9	125.0	8	100	95	0 / 4	Pass
185		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	13.8	111.1	126.4	8	100	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
182	Sanitary Sewer Manhole: SSMH-5, west side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
183	Sanitary Sewer Manhole: SSMH-5, south side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
184	Sanitary Sewer Manhole: SSMH-6, north side	25.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
185	Sanitary Sewer Manhole: SSMH-6, east side	24.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

185: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000027
Report Date: 5/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
186		5/24/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	111.2	125.7	8	100	95	0 / 4	Pass
187		5/24/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	117.0	130.1	8	100	95	-2 / 2	Pass
188		5/24/21	14	ASTM D1557	A-2-4	13.0	116.6	10.2	113.5	125.1	8	97	95	-2 / 2	Fail
189	188	5/24/21	14	ASTM D1557	A-2-4	13.0	116.6	11.0	116.8	129.6	8	100	95	-2 / 2	Pass
190		5/24/21	14	ASTM D1557	A-2-4	13.0	116.6	12.4	114.7	128.9	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
186	Sanitary Sewer Manhole: SSMH-6, west side	23.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
187	Sanitary Sewer Manhole: SSMH-6, south side	22.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
188	Sanitary Sewer Manhole: SSMH-6, north side	21.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
189	Sanitary Sewer Manhole: SSMH-6, north side	21.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
190	Sanitary Sewer Manhole: SSMH-6, east side	20.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Pass / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

190: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000028
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
191		05/25/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	114.0	127.5	8	98	95	-2 / 2	Pass
192		05/25/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	113.7	128.4	8	98	95	-2 / 2	Pass
193		05/25/21	06	ASTM D698	A-7-6	12.7	111.0	15.2	110.4	127.2	8	99	95	0 / 4	Pass
194		05/25/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	113.2	128.5	8	97	95	-2 / 2	Pass
195		05/25/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	112.2	128.0	8	96	95	-2 / 2	Pass
196		05/25/21	19	ASTM D1557	A-2-4	9.1	125.1	10.8	118.9	131.7	8	95	95	-2 / 2	Pass
197		05/25/21	19	ASTM D1557	A-2-4	9.1	125.1	10.2	119.8	132.0	8	96	95	-2 / 2	Pass
198		05/25/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	115.3	130.4	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
191	Sanitary Sewer Manhole: SSMH-6, west side	19.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
192	Sanitary Sewer Manhole: SSMH-6, south side	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
193	Sanitary Sewer Manhole: SSMH-6, north side	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
194	Sanitary Sewer Manhole: SSMH-6, east side	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
195	Sanitary Sewer Manhole: SSMH-6, west side	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
196	Sanitary Sewer Manhole: SSMH-6, south side	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
197	Sanitary Sewer Manhole: SSMH-6, north side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
198	Sanitary Sewer Manhole: SSMH-6, east side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000028
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
199		05/25/21	06	ASTM D698	A-7-6	12.7	111.0	14.8	110.1	126.4	8	99	95	0 / 4	Pass
200		05/25/21	02	ASTM D698	A-6	15.2	109.4	16.0	104.3	121.0	8	95	95	0 / 4	Pass
201		05/25/21	02	ASTM D698	A-6	15.2	109.4	16.7	102.2	119.3	8	93	95	0 / 4	Fail
202	201	05/25/21	02	ASTM D698	A-6	15.2	109.4	15.9	105.1	121.8	8	96	95	0 / 4	Pass
203		05/25/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	109.1	126.0	8	98	95	0 / 4	Pass
204		05/25/21	02	ASTM D698	A-6	15.2	109.4	17.0	106.9	125.1	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
199	Sanitary Sewer Manhole: SSMH-6, west side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
200	Sanitary Sewer Manhole: SSMH-6, south side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
201	Sanitary Sewer Manhole: SSMH-6, north side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
202	Sanitary Sewer Manhole: SSMH-6, north side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
203	Sanitary Sewer Manhole: SSMH-6, east side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
204	Sanitary Sewer Manhole: SSMH-6, west side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

204: The Contactor, Iron Woman, utilized one excavator with a compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000029
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
205		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	15.2	111.4	128.3	8	100	95	0 / 4	Pass
206		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	10.7	115.6	128.0	8	99	95	-2 / 2	Fail
207	206	05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	116.5	129.8	8	100	95	-2 / 2	Pass
208		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	110.9	125.3	8	100	95	0 / 4	Pass
209		05/26/21	02	ASTM D698	A-6	15.2	109.4	15.3	109.3	126.0	8	100	95	0 / 4	Pass
210		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	13.2	111.0	125.7	8	100	95	0 / 4	Pass
211		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	15.1	108.6	125.0	8	98	95	0 / 4	Pass
212		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	114.3	128.6	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
205	Sanitary Sewer Mainline: Station 30+50	25.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
206	Sanitary Sewer Mainline: Station 31+00	24.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
207	Sanitary Sewer Mainline: Station 31+00	24.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
208	Sanitary Sewer Mainline: Station 31+50	23.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
209	Sanitary Sewer Mainline: Station 32+00	22.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
210	Sanitary Sewer Mainline: Station 30+50	21.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
211	Sanitary Sewer Mainline: Station 31+00	20.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
212	Sanitary Sewer Mainline: Station 31+50	19.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Pass / Moisture Fail	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000029
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
213		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	115.7	129.5	8	99	95	-2 / 2	Pass
214		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	12.6	115.1	129.6	8	99	95	-2 / 2	Pass
215		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	114.6	128.6	8	98	95	-2 / 2	Pass
216		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	113.5	128.3	8	97	95	-2 / 2	Pass
217		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	115.9	129.7	8	99	95	-2 / 2	Pass
218		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	114.8	128.8	8	98	95	-2 / 2	Pass
219		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	112.3	127.0	8	96	95	-2 / 2	Pass
220		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	12.8	108.4	122.3	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
213	Sanitary Sewer Mainline: Station 32+00	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
214	Sanitary Sewer Mainline: Station 30+50	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
215	Sanitary Sewer Mainline: Station 31+00	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
216	Sanitary Sewer Mainline: Station 31+50	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
217	Sanitary Sewer Manhole: SSMH-7, north side	19.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
218	Sanitary Sewer Manhole: SSMH-7, east side	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
219	Sanitary Sewer Manhole: SSMH-7, west side	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
220	Sanitary Sewer Manhole: SSMH-7, south side	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000029
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
221		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	114.1	127.6	8	98	95	-2 / 2	Pass
222		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	13.3	107.4	121.7	8	97	95	0 / 4	Pass
223		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	112.9	127.7	8	97	95	-2 / 2	Pass
224		05/26/21	12	ASTM D698	A-6	14.1	116.4	14.9	112.5	129.3	8	97	95	0 / 4	Pass
225		05/26/21	02	ASTM D698	A-6	15.2	109.4	16.9	108.8	127.2	8	99	95	0 / 4	Pass
226		05/26/21	02	ASTM D698	A-6	15.2	109.4	17.1	106.4	124.6	8	97	95	0 / 4	Pass
227		05/26/21	02	ASTM D698	A-6	15.2	109.4	15.8	108.0	125.1	8	99	95	0 / 4	Pass
228		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	107.1	123.7	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
221	Sanitary Sewer Manhole: SSMH-7, north side	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
222	Sanitary Sewer Manhole: SSMH-7, east side	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
223	Sanitary Sewer Manhole: SSMH-7, west side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
224	Sanitary Sewer Manhole: SSMH-7, south side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
225	Sanitary Sewer Manhole: SSMH-7, north side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
226	Sanitary Sewer Manhole: SSMH-7, east side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
227	Sanitary Sewer Manhole: SSMH-7, west side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
228	Sanitary Sewer Manhole: SSMH-7, south side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000029
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
229		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	16.0	106.0	123.0	8	95	95	0 / 4	Pass
230		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	108.9	124.7	8	98	95	0 / 4	Pass
231		05/26/21	02	ASTM D698	A-6	15.2	109.4	16.2	104.7	121.7	8	96	95	0 / 4	Pass
232		05/26/21	02	ASTM D698	A-6	15.2	109.4	16.4	106.1	123.5	8	97	95	0 / 4	Pass
233		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	15.3	108.5	125.1	8	98	95	0 / 4	Pass
234		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	111.3	127.4	8	95	95	-2 / 2	Pass
235		05/26/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	114.2	130.5	8	98	95	-2 / 2	Pass
236		05/26/21	06	ASTM D698	A-7-6	12.7	111.0	15.4	108.0	124.6	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
229	Sanitary Sewer Manhole: SSMH-7, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
230	Sanitary Sewer Mainline: Station 33+00	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
231	Sanitary Sewer Mainline: Station 33+25	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
232	Sanitary Sewer Mainline: Station 33+50	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
233	Sanitary Sewer Mainline: Station 33+75	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
234	Sanitary Sewer Mainline: Station 33+00	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
235	Sanitary Sewer Mainline: Station 33+25	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
236	Sanitary Sewer Mainline: Station 33+50	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000029
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
237		05/26/21	12	ASTM D698	A-6	14.1	116.4	15.3	113.8	131.2	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
237	Sanitary Sewer Mainline: Station 33+75	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

237: The Contactor, Iron Woman, utilized an excavator with compaction wheel to place and to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000030
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
238		05/27/21	12	ASTM D698	A-6	14.1	116.4	15.4	111.1	128.2	8	95	95	0 / 4	Pass
239		05/27/21	02	ASTM D698	A-6	15.2	109.4	17.1	108.9	127.5	8	100	95	0 / 4	Pass
240		05/27/21	06	ASTM D698	A-7-6	12.7	111.0	15.8	110.1	127.5	8	99	95	0 / 4	Pass
241		05/27/21	12	ASTM D698	A-6	14.1	116.4	15.1	111.4	128.2	8	96	95	0 / 4	Pass
242		05/27/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	112.0	128.0	8	96	95	-2 / 2	Pass
243		05/27/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	113.8	128.5	8	98	95	-2 / 2	Pass
244		05/27/21	02	ASTM D698	A-6	15.2	109.4	16.0	108.5	125.9	8	99	95	0 / 4	Pass
245		05/27/21	12	ASTM D698	A-6	14.1	116.4	14.9	111.5	128.1	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
238	Sanitary Sewer Manhole: SSMH-8, north side	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
239	Sanitary Sewer Manhole: SSMH-8, east side	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
240	Sanitary Sewer Manhole: SSMH-8, west side	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
241	Sanitary Sewer Manhole: SSMH-8, south side	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
242	Sanitary Sewer Manhole: SSMH-8, north side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
243	Sanitary Sewer Manhole: SSMH-8, east side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
244	Sanitary Sewer Manhole: SSMH-8, west side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
245	Sanitary Sewer Manhole: SSMH-8, south side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000030
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
246		05/27/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	115.3	128.8	8	99	95	-2 / 2	Pass
247		05/27/21	14	ASTM D1557	A-2-4	13.0	116.6	11.6	114.9	128.2	8	99	95	-2 / 2	Pass
248		05/27/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	110.0	124.5	8	94	95	-2 / 2	Fail
249	248	05/27/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	111.8	126.0	8	96	95	-2 / 2	Pass
250		05/27/21	06	ASTM D698	A-7-6	12.7	111.0	14.2	108.9	124.4	8	98	95	0 / 4	Pass
251		05/27/21	06	ASTM D698	A-7-6	12.7	111.0	16.2	106.4	123.6	8	96	95	0 / 4	Pass
252		05/27/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	109.4	125.3	8	99	95	0 / 4	Pass
253		05/27/21	14	ASTM D1557	A-2-4	13.0	116.6	13.7	112.9	128.4	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
246	Sanitary Sewer Manhole: SSMH-8, north side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
247	Sanitary Sewer Manhole: SSMH-8, east side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
248	Sanitary Sewer Manhole: SSMH-8, west side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
249	Sanitary Sewer Manhole: SSMH-8, west side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
250	Sanitary Sewer Manhole: SSMH-8, south side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
251	Sanitary Sewer Manhole: SSMH-8, north side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
252	Sanitary Sewer Manhole: SSMH-8, east side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
253	Sanitary Sewer Manhole: SSMH-8, west side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000030
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
254		05/27/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	115.9	129.2	8	99	95	-2 / 2	Pass
255		05/27/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	112.0	127.7	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
254	Sanitary Sewer Manhole: SSMH-8, south side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
255	Sanitary Sewer Manhole: SSMH-8, north side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

255: The Contactor, Iron Woman, utilized an excavator with compaction wheel to place and to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000031
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
256		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.3	113.7	126.5	8	98	95	-2 / 2	Pass
257		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	110.8	125.0	8	95	95	-2 / 2	Pass
258		05/28/21	12	ASTM D698	A-6	14.1	116.4	15.3	112.5	129.7	8	97	95	0 / 4	Pass
259		05/28/21	06	ASTM D698	A-7-6	12.7	111.0	15.4	110.6	127.6	8	100	95	0 / 4	Pass
260		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	111.2	127.3	8	95	95	-2 / 2	Pass
261		05/28/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	108.2	125.0	8	97	95	0 / 4	Pass
262		05/28/21	06	ASTM D698	A-7-6	12.7	111.0	14.6	110.8	127.0	8	100	95	0 / 4	Pass
263		05/28/21	06	ASTM D698	A-7-6	12.7	111.0	16.2	107.2	124.6	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
256	Sanitary Sewer Manhole: SSMH-7, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
257	Sanitary Sewer Manhole: SSMH-7, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
258	Sanitary Sewer Manhole: SSMH-7, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
259	Sanitary Sewer Manhole: SSMH-7, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
260	Sanitary Sewer Manhole: SSMH-7, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
261	Sanitary Sewer Manhole: SSMH-7, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
262	Sanitary Sewer Mainline: Station 34+50	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
263	Sanitary Sewer Mainline: Station 35+00	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000031
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
264		05/28/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	108.8	125.7	8	98	95	0 / 4	Pass
265		05/28/21	02	ASTM D698	A-6	15.2	109.4	19.1	105.1	125.2	8	96	95	0 / 4	Pass
266		05/28/21	02	ASTM D698	A-6	15.2	109.4	17.0	107.0	125.2	8	98	95	0 / 4	Pass
267		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	115.5	128.4	8	99	95	-2 / 2	Pass
268		05/28/21	06	ASTM D698	A-7-6	12.7	111.0	13.8	109.2	124.3	8	98	95	0 / 4	Pass
269		05/28/21	09	ASTM D698	A-6	18.5	106.9	19.3	105.0	125.3	8	98	95	0 / 4	Pass
270		05/28/21	06	ASTM D698	A-7-6	12.7	111.0	14.1	107.6	122.8	8	97	95	0 / 4	Pass
271		05/28/21	02	ASTM D698	A-6	15.2	109.4	17.6	104.4	122.8	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
264	Sanitary Sewer Mainline: Station 35+50	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
265	Sanitary Sewer Mainline: Station 36+00	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
266	Sanitary Sewer Mainline: Station 36+50	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
267	Sanitary Sewer Mainline: Station 34+50	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
268	Sanitary Sewer Mainline: Station 35+00	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
269	Sanitary Sewer Mainline: Station 35+50	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
270	Sanitary Sewer Mainline: Station 36+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
271	Sanitary Sewer Mainline: Station 36+50	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000031
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
272		05/28/21	02	ASTM D698	A-6	15.2	109.4	17.1	106.2	124.4	8	97	95	0 / 4	Pass
273		05/28/21	02	ASTM D698	A-6	15.2	109.4	16.9	105.5	123.3	8	96	95	0 / 4	Pass
274		05/28/21	06	ASTM D698	A-7-6	12.7	111.0	13.2	106.4	120.4	8	96	95	0 / 4	Pass
275		05/28/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	109.9	124.2	8	99	95	0 / 4	Pass
276		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	115.3	128.4	8	99	95	-2 / 2	Pass
277		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	114.0	128.9	8	98	95	-2 / 2	Pass
278		05/28/21	12	ASTM D698	A-6	14.1	116.4	15.4	113.8	131.3	8	98	95	0 / 4	Pass
279		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	115.8	132.1	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
272	Sanitary Sewer Mainline: Station 34+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
273	Sanitary Sewer Mainline: Station 35+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
274	Sanitary Sewer Mainline: Station 35+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
275	Sanitary Sewer Mainline: Station 36+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
276	Sanitary Sewer Mainline: Station 36+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
277	Sanitary Sewer Mainline: Station 34+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
278	Sanitary Sewer Manhole: SSMH-9, north side	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
279	Sanitary Sewer Manhole: SSMH-9, east side	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000031
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
280		05/28/21	12	ASTM D698	A-6	14.1	116.4	16.4	112.7	131.2	8	97	95	0 / 4	Pass
281		05/28/21	12	ASTM D698	A-6	14.1	116.4	15.6	114.4	132.2	8	98	95	0 / 4	Pass
282		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	115.4	129.1	8	99	95	-2 / 2	Pass
283		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	12.6	114.0	128.4	8	98	95	-2 / 2	Pass
284		05/28/21	12	ASTM D698	A-6	14.1	116.4	16.6	113.6	132.5	8	98	95	0 / 4	Pass
285		05/28/21	12	ASTM D698	A-6	14.1	116.4	17.1	112.1	131.3	8	96	95	0 / 4	Pass
286		05/28/21	12	ASTM D698	A-6	14.1	116.4	16.9	111.5	130.3	8	96	95	0 / 4	Pass
287		05/28/21	12	ASTM D698	A-6	14.1	116.4	14.7	115.0	131.9	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
280	Sanitary Sewer Manhole: SSMH-9, west side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
281	Sanitary Sewer Manhole: SSMH-9, south side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
282	Sanitary Sewer Manhole: SSMH-9, north side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
283	Sanitary Sewer Manhole: SSMH-9, east side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
284	Sanitary Sewer Manhole: SSMH-9, west side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
285	Sanitary Sewer Manhole: SSMH-9, south side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
286	Sanitary Sewer Manhole: SSMH-9, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
287	Sanitary Sewer Manhole: SSMH-9, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000031
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
288		05/28/21	01	ASTM D698	A-7-6	19.3	100.4	20.1	96.0	115.3	8	96	95	0 / 4	Pass
289		05/28/21	01	ASTM D698	A-7-6	19.3	100.4	20.2	97.3	117.0	8	97	95	0 / 4	Pass
290		05/28/21	01	ASTM D698	A-7-6	19.3	100.4	19.5	100.1	119.6	8	100	95	0 / 4	Pass
291		05/28/21	01	ASTM D698	A-7-6	19.3	100.4	20.7	96.3	116.2	8	96	95	0 / 4	Pass
292		05/28/21	01	ASTM D698	A-7-6	19.3	100.4	19.8	97.5	116.8	8	97	95	0 / 4	Pass
293		05/28/21	01	ASTM D698	A-7-6	19.3	100.4	20.5	96.7	116.5	8	96	95	0 / 4	Pass
294		05/28/21	01	ASTM D698	A-7-6	19.3	100.4	21.4	99.1	120.3	8	99	95	0 / 4	Pass
295		05/28/21	01	ASTM D698	A-7-6	19.3	100.4	19.9	99.6	119.4	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
288	Inlet: PLAN: STORM-1, inlet 2-1, east side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
289	Inlet: PLAN: STORM-1, inlet 2-1, west side	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
290	Inlet: PLAN: STORM-1, inlet 1-1, west side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
291	Inlet: PLAN: STORM-1, inlet 1-1, south side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
292	Inlet: PLAN: STORM-1, inlet 1-1, north side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
293	Inlet: PLAN: STORM-1, inlet 1-1, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
294	Inlet: PLAN: STORM-1, inlet 1-1, west side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
295	Inlet: PLAN: STORM-1, inlet 1-1, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000031
Report Date: 06/03/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
296		05/28/21	01	ASTM D698	A-7-6	19.3	100.4	21.8	98.0	119.4	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
296	Inlet: PLAN: STORM-1, inlet 1-1, north side	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

296: The Contactor, Iron Woman, utilized an excavator with compaction wheel to place and to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000032
Report Date: 06/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
297		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	12.3	116.5	130.8	8	100	95	-2 / 2	Pass
298		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	114.7	129.7	8	98	95	-2 / 2	Pass
299		05/28/21	14	ASTM D1557	A-2-4	13.0	116.6	12.0	115.9	129.8	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
297	Outlet: PLAN: STORM-13, STORM-POND OUTLET, Station 11+00	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
298	Outlet: PLAN: STORM-13, STORM-POND OUTLET, Station 11+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
299	Outlet: PLAN: STORM-13, STORM-POND OUTLET, Station 11+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

299: The Contactor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000033
Report Date: 06/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
300		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	111.4	127.1	8	96	95	-2 / 2	Pass
301		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	13.7	112.3	127.7	8	96	95	-2 / 2	Pass
302		06/02/21	12	ASTM D698	A-6	14.1	116.4	15.5	110.9	128.1	8	95	95	0 / 4	Pass
303		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	13.4	114.5	129.8	8	98	95	-2 / 2	Pass
304		06/02/21	19	ASTM D1557	A-2-4	9.1	125.1	7.5	121.3	130.4	8	97	95	-2 / 2	Pass
305		06/02/21	19	ASTM D1557	A-2-4	9.1	125.1	7.2	120.8	129.5	8	97	95	-2 / 2	Pass
306		06/02/21	19	ASTM D1557	A-2-4	9.1	125.1	10.9	118.8	131.7	8	95	95	-2 / 2	Pass
307		06/02/21	19	ASTM D1557	A-2-4	9.1	125.1	9.8	119.5	131.2	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
300	Outlet: PLAN: STORM-13, STORM-POND OUTLET, Station 11+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
301	Outlet: PLAN: STORM-13, STORM-POND OUTLET, Station 11+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
302	Outlet: PLAN: STORM-13, STORM-POND OUTLET, Station 11+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
303	Outlet: PLAN: STORM-13, STORM-POND OUTLET, Station 10+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
304	Sanitary Sewer Manhole: SSMH-9, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
305	Sanitary Sewer Manhole: SSMH-9, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
306	Sanitary Sewer Manhole: SSMH-9, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
307	Sanitary Sewer Manhole: SSMH-9, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000033
Report Date: 06/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
308		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	116.1	129.7	8	100	95	-2 / 2	Pass
309		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	114.2	129.7	8	98	95	-2 / 2	Pass
310		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	12.0	112.1	125.6	8	96	95	-2 / 2	Pass
311		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	113.7	129.4	8	98	95	-2 / 2	Pass
312		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	115.4	130.5	8	99	95	-2 / 2	Pass
313		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	114.9	128.5	8	99	95	-2 / 2	Pass
314		06/02/21	19	ASTM D1557	A-2-4	9.1	125.1	10.5	119.9	132.5	8	96	95	-2 / 2	Pass
315		06/02/21	19	ASTM D1557	A-2-4	9.1	125.1	10.2	119.0	131.1	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
308	Sanitary Sewer Manhole: SSMH-9, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
309	Sanitary Sewer Mainline: Station 37+25	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
310	Sanitary Sewer Mainline: Station 37+50	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
311	Sanitary Sewer Mainline: Station 37+75	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
312	Sanitary Sewer Mainline: Station 38+00	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
313	Sanitary Sewer Mainline: Station 37+25	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
314	Sanitary Sewer Mainline: Station 37+50	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
315	Sanitary Sewer Mainline: Station 37+75	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000033
Report Date: 06/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
316		06/02/21	14	ASTM D1557	A-2-4	13.0	116.6	11.6	114.8	128.1	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
316	Sanitary Sewer Mainline: Station 38+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

316: The Contactor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material. Organic material was observed in the fill, the Contractor was informed and removed the organic material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000034
Report Date: 06/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
317		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	115.6	128.5	8	99	95	-2 / 2	Pass
318		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	113.6	128.3	8	97	95	-2 / 2	Pass
319		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	114.3	127.1	8	98	95	-2 / 2	Pass
320		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	111.1	126.1	8	95	95	-2 / 2	Pass
321		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	110.9	126.4	8	95	95	-2 / 2	Pass
322		06/03/21	06	ASTM D698	A-7-6	12.7	111.0	15.1	109.5	126.0	8	99	95	0 / 4	Pass
323		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	111.8	125.3	8	96	95	-2 / 2	Pass
324		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	116.0	130.5	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
317	Sanitary Sewer Mainline: Station 37+25	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
318	Sanitary Sewer Mainline: Station 37+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
319	Sanitary Sewer Mainline: Station 37+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
320	Sanitary Sewer Mainline: Station 38+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
321	Sanitary Sewer Mainline: Station 37+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
322	Sanitary Sewer Mainline: Station 37+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
323	Sanitary Sewer Mainline: Station 37+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
324	Sanitary Sewer Manhole: SSMH-10, north side	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000034
Report Date: 06/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
325		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	114.3	130.4	8	98	95	-2 / 2	Pass
326		06/03/21	12	ASTM D698	A-6	14.1	116.4	15.5	112.5	129.9	8	97	95	0 / 4	Pass
327		06/03/21	12	ASTM D698	A-6	14.1	116.4	15.0	113.9	131.0	8	98	95	0 / 4	Pass
328		06/03/21	06	ASTM D698	A-7-6	12.7	111.0	16.7	110.1	128.5	8	99	95	0 / 4	Pass
329		06/03/21	12	ASTM D698	A-6	14.1	116.4	16.5	111.0	129.3	8	95	95	0 / 4	Pass
330		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	14.4	114.7	131.2	8	98	95	-2 / 2	Pass
331		06/03/21	12	ASTM D698	A-6	14.1	116.4	15.1	113.2	130.3	8	97	95	0 / 4	Pass
332		06/03/21	12	ASTM D698	A-6	14.1	116.4	16.0	111.9	129.8	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
325	Sanitary Sewer Manhole: SSMH-10, east side	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
326	Sanitary Sewer Manhole: SSMH-10, west side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
327	Sanitary Sewer Manhole: SSMH-10, south side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
328	Sanitary Sewer Manhole: SSMH-10, north side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
329	Sanitary Sewer Manhole: SSMH-10, east side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
330	Sanitary Sewer Manhole: SSMH-10, west side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
331	Sanitary Sewer Manhole: SSMH-10, south side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
332	Sanitary Sewer Manhole: SSMH-10, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
333		06/03/21	12	ASTM D698	A-6	14.1	116.4	15.5	112.3	129.7	8	96	95	0 / 4	Pass
334		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	111.8	127.8	8	96	95	-2 / 2	Pass
335		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	12.0	113.2	126.8	8	97	95	-2 / 2	Pass
336		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	110.9	125.6	8	95	95	-2 / 2	Pass
337		06/03/21	12	ASTM D698	A-6	14.1	116.4	14.8	111.0	127.4	8	95	95	0 / 4	Pass
338		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	113.4	129.6	8	97	95	-2 / 2	Pass
339		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	114.9	128.6	8	99	95	-2 / 2	Pass
340		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	12.3	115.7	129.9	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
333	Sanitary Sewer Manhole: SSMH-10, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
334	Sanitary Sewer Manhole: SSMH-10, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
335	Sanitary Sewer Manhole: SSMH-10, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
336	Sanitary Sewer Manhole: SSMH-10, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
337	Sanitary Sewer Manhole: SSMH-10, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
338	Sanitary Sewer Manhole: SSMH-10, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
339	Sanitary Sewer Mainline: Station 39+00	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
340	Sanitary Sewer Mainline: Station 39+50	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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8390 East Crescent Parkway, Suite 300
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Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
341		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	114.4	128.4	8	98	95	-2 / 2	Pass
342		06/03/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	111.8	128.0	8	96	95	-2 / 2	Pass
343		06/03/21	12	ASTM D698	A-6	14.1	116.4	15.2	113.9	131.2	8	98	95	0 / 4	Pass
344		06/03/21	12	ASTM D698	A-6	14.1	116.4	15.1	111.0	127.8	8	95	95	0 / 4	Pass
345		06/03/21	12	ASTM D698	A-6	14.1	116.4	15.5	112.1	129.5	8	96	95	0 / 4	Pass
346		06/03/21	06	ASTM D698	A-7-6	12.7	111.0	16.6	110.5	128.8	8	100	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
341	Sanitary Sewer Mainline: Station 40+00	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
342	Sanitary Sewer Mainline: Station 39+00	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
343	Sanitary Sewer Mainline: Station 39+50	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
344	Sanitary Sewer Mainline: Station 40+00	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
345	Sanitary Sewer Mainline: Station 40+50	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
346	Sanitary Sewer Mainline: Station 39+50	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

346: The Contactor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material. Organic material was observed in the fill, the Contractor was informed and removed the organic material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000035
Report Date: 06/11/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
347		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	113.0	129.2	8	97	95	-2 / 2	Pass
348		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	115.4	131.0	8	99	95	-2 / 2	Pass
349		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	113.7	129.5	8	98	95	-2 / 2	Pass
350		06/04/21	12	ASTM D698	A-6	14.1	116.4	15.0	111.4	128.1	8	96	95	0 / 4	Pass
351		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	112.9	129.0	8	97	95	-2 / 2	Pass
352		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	115.1	131.0	8	99	95	-2 / 2	Pass
353		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	116.0	131.4	8	99	95	-2 / 2	Pass
354		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	14.2	115.1	131.4	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
347	Sanitary Sewer Mainline: Station 40+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
348	Sanitary Sewer Mainline: Station 40+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
349	Sanitary Sewer Mainline: Station 41+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
350	Sanitary Sewer Mainline: Station 40+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
351	Sanitary Sewer Mainline: Station 40+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
352	Sanitary Sewer Mainline: Station 41+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
353	Sanitary Sewer Manhole: SSMH-11, north side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
354	Sanitary Sewer Manhole: SSMH-11, east side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
355		06/04/21	12	ASTM D698	A-6	14.1	116.4	15.8	112.7	130.5	8	97	95	0 / 4	Pass
356		06/04/21	12	ASTM D698	A-6	14.1	116.4	14.9	113.2	130.1	8	97	95	0 / 4	Pass
357		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	12.6	115.7	130.3	8	99	95	-2 / 2	Pass
358		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	12.3	114.3	128.4	8	98	95	-2 / 2	Pass
359		06/04/21	02	ASTM D698	A-6	15.2	109.4	16.5	108.3	126.2	8	99	95	0 / 4	Pass
360		06/04/21	02	ASTM D698	A-6	15.2	109.4	17.9	105.7	124.6	8	97	95	0 / 4	Pass
361		06/04/21	02	ASTM D698	A-6	15.2	109.4	18.0	106.2	125.3	8	97	95	0 / 4	Pass
362		06/04/21	02	ASTM D698	A-6	15.2	109.4	17.1	107.3	125.6	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
355	Sanitary Sewer Manhole: SSMH-11, west side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
356	Sanitary Sewer Manhole: SSMH-11, south side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
357	Sanitary Sewer Manhole: SSMH-11, north side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
358	Sanitary Sewer Manhole: SSMH-11, east side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
359	Sanitary Sewer Manhole: SSMH-11, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
360	Sanitary Sewer Manhole: SSMH-11, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
361	Sanitary Sewer Manhole: SSMH-11, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
362	Sanitary Sewer Manhole: SSMH-11, east side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

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Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
363		06/04/21	06	ASTM D698	A-7-6	12.7	111.0	16.2	110.5	128.4	8	100	95	0 / 4	Pass
364		06/04/21	12	ASTM D698	A-6	14.1	116.4	14.8	113.4	130.2	8	97	95	0 / 4	Pass
365		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.4	126.8	8	96	95	-2 / 2	Pass
366		06/04/21	12	ASTM D698	A-6	14.1	116.4	16.2	112.7	131.0	8	97	95	0 / 4	Pass
367		06/04/21	06	ASTM D698	A-7-6	12.7	111.0	14.4	110.1	126.0	8	99	95	0 / 4	Pass
368		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	13.7	115.3	131.1	8	99	95	-2 / 2	Pass
369		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	114.8	131.2	8	98	95	-2 / 2	Pass
370		06/04/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	113.7	129.7	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
363	Sanitary Sewer Mainline: Station 43+00	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
364	Sanitary Sewer Mainline: Station 43+25	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
365	Sanitary Sewer Mainline: Station 43+50	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
366	Sanitary Sewer Mainline: Station 43+75	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
367	Sanitary Sewer Mainline: Station 44+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
368	Sanitary Sewer Mainline: Station 44+25	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
369	Sanitary Sewer Mainline: Station 44+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
370	Sanitary Sewer Mainline: Station 43+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Test Method: ASTM D 6938

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Project:
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Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
371		06/04/21	12	ASTM D698	A-6	14.1	116.4	15.0	111.2	127.9	8	96	95	0 / 4	Pass
372		06/04/21	06	ASTM D698	A-7-6	12.7	111.0	16.5	109.9	128.0	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
371	Sanitary Sewer Mainline: Station 43+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
372	Sanitary Sewer Mainline: Station 44+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

372: The Contactor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000036
Report Date: 06/16/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
373		06/05/21	19	ASTM D1557	A-2-4	9.1	125.1	7.5	121.1	130.2	8	97	95	-2 / 2	Pass
374		06/05/21	19	ASTM D1557	A-2-4	9.1	125.1	10.4	119.3	131.7	8	95	95	-2 / 2	Pass
375		06/05/21	19	ASTM D1557	A-2-4	9.1	125.1	7.9	121.7	131.3	8	97	95	-2 / 2	Pass
376		06/05/21	19	ASTM D1557	A-2-4	9.1	125.1	11.0	118.9	132.0	8	95	95	-2 / 2	Pass
377		06/05/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	116.3	130.4	8	100	95	-2 / 2	Pass
378		06/05/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	115.6	131.7	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
373	Sanitary Sewer Mainline: Station 26+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
374	Sanitary Sewer Mainline: Station 26+25	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
375	Sanitary Sewer Mainline: Station 26+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
376	Sanitary Sewer Mainline: Station 26+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
377	Sanitary Sewer Mainline: Station 26+25	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
378	Sanitary Sewer Mainline: Station 26+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

378: The Contactor, Iron Woman, utilized one excavator with a compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000037
Report Date: 06/16/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
379		06/07/21	12	ASTM D698	A-6	14.1	116.4	15.6	111.0	128.3	8	95	95	0 / 4	Pass
380		06/07/21	06	ASTM D698	A-7-6	12.7	111.0	14.9	110.5	127.0	8	100	95	0 / 4	Pass
381		06/07/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	115.8	129.8	8	99	95	-2 / 2	Pass
382		06/07/21	12	ASTM D698	A-6	14.1	116.4	14.9	112.8	129.6	8	97	95	0 / 4	Pass
383		06/07/21	06	ASTM D698	A-7-6	12.7	111.0	15.2	110.0	126.7	8	99	95	0 / 4	Pass
384		06/07/21	12	ASTM D698	A-6	14.1	116.4	14.8	111.6	128.1	8	96	95	0 / 4	Pass
385		06/07/21	14	ASTM D1557	A-2-4	13.0	116.6	13.7	113.6	129.2	8	97	95	-2 / 2	Pass
386		06/07/21	06	ASTM D698	A-7-6	12.7	111.0	16.6	106.7	124.4	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
379	Sanitary Sewer Manhole: SSMH-12, north side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
380	Sanitary Sewer Manhole: SSMH-12, east side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
381	Sanitary Sewer Manhole: SSMH-12, west side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
382	Sanitary Sewer Manhole: SSMH-12, south side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
383	Sanitary Sewer Manhole: SSMH-12, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
384	Sanitary Sewer Manhole: SSMH-12, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
385	Sanitary Sewer Manhole: SSMH-12, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
386	Sanitary Sewer Manhole: SSMH-12, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000037
Report Date: 06/16/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
387		06/07/21	06	ASTM D698	A-7-6	12.7	111.0	16.0	110.1	127.7	8	99	95	0 / 4	Pass
388		06/07/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	108.9	125.8	8	98	95	0 / 4	Pass
389		06/07/21	02	ASTM D698	A-6	15.2	109.4	17.0	104.2	121.9	8	95	95	0 / 4	Pass
390		06/07/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	112.0	126.6	8	96	95	-2 / 2	Pass
391		06/07/21	06	ASTM D698	A-7-6	12.7	111.0	16.1	108.1	125.5	8	97	95	0 / 4	Pass
392		06/07/21	06	ASTM D698	A-7-6	12.7	111.0	15.3	109.5	126.3	8	99	95	0 / 4	Pass
393		06/07/21	02	ASTM D698	A-6	15.2	109.4	16.9	105.1	122.9	8	96	95	0 / 4	Pass
394		06/07/21	02	ASTM D698	A-6	15.2	109.4	15.5	106.4	122.9	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
387	Sanitary Sewer Manhole: SSMH-12, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
388	Sanitary Sewer Manhole: SSMH-12, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
389	Sanitary Sewer Manhole: SSMH-12, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
390	Sanitary Sewer Mainline: Station 45+50	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
391	Sanitary Sewer Mainline: Station 45+75	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
392	Sanitary Sewer Mainline: Station 46+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
393	Sanitary Sewer Mainline: Station 46+25	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
394	Sanitary Sewer Mainline: Station 46+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000037
Report Date: 06/16/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
395		06/07/21	02	ASTM D698	A-6	15.2	109.4	17.1	105.9	124.0	8	97	95	0 / 4	Pass
396		06/07/21	06	ASTM D698	A-7-6	12.7	111.0	15.9	109.2	126.6	8	98	95	0 / 4	Pass
397		06/07/21	02	ASTM D698	A-6	15.2	109.4	16.7	106.0	123.7	8	97	95	0 / 4	Pass
398		06/07/21	02	ASTM D698	A-6	15.2	109.4	16.3	107.2	124.7	8	98	95	0 / 4	Pass
399		06/07/21	06	ASTM D698	A-7-6	12.7	111.0	15.3	106.8	123.1	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
395	Sanitary Sewer Mainline: Station 45+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
396	Sanitary Sewer Mainline: Station 45+75	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
397	Sanitary Sewer Mainline: Station 46+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
398	Sanitary Sewer Mainline: Station 46+25	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
399	Sanitary Sewer Mainline: Station 46+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

399: The Contactor, Iron Woman, utilized one excavator with a compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000038
Report Date: 06/16/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
400		06/08/21	19	ASTM D1557	A-2-4	9.1	125.1	9.5	120.6	132.1	8	96	95	-2 / 2	Pass
401		06/08/21	19	ASTM D1557	A-2-4	9.1	125.1	8.9	121.5	132.3	8	97	95	-2 / 2	Pass
402		06/08/21	19	ASTM D1557	A-2-4	9.1	125.1	10.8	119.5	132.4	8	96	95	-2 / 2	Pass
403		06/08/21	14	ASTM D1557	A-2-4	13.0	116.6	11.6	115.3	128.7	8	99	95	-2 / 2	Pass
404		06/08/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	115.1	129.5	8	99	95	-2 / 2	Pass
405		06/08/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	116.2	129.9	8	100	95	-2 / 2	Pass
406		06/08/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	115.4	130.5	8	99	95	-2 / 2	Pass
407		06/08/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	112.4	128.1	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
400	Sanitary Sewer Manhole: SSMH-5, north side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
401	Sanitary Sewer Manhole: SSMH-5, east side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
402	Sanitary Sewer Manhole: SSMH-5, west side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
403	Sanitary Sewer Manhole: SSMH-5, south side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
404	Sanitary Sewer Manhole: SSMH-5, north side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
405	Sanitary Sewer Manhole: SSMH-5, east side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
406	Sanitary Sewer Manhole: SSMH-5, west side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
407	Sanitary Sewer Manhole: SSMH-5, south side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000038
Report Date: 06/16/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
408		06/08/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	114.3	127.1	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
408	Sanitary Sewer Manhole: SSMH-5, north side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

408: The Contactor, Iron Woman, utilized one excavator with a compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000039
Report Date: 06/29/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
409		06/14/21	14	ASTM D1557	A-2-4	13.0	116.6	11.3	116.0	129.1	8	99	95	-2 / 2	Pass
410		06/14/21	14	ASTM D1557	A-2-4	13.0	116.6	11.1	115.1	127.9	8	99	95	-2 / 2	Pass
411		06/14/21	19	ASTM D1557	A-2-4	9.1	125.1	10.1	122.4	134.8	8	98	95	-2 / 2	Pass
412		06/14/21	19	ASTM D1557	A-2-4	9.1	125.1	10.9	120.2	133.3	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
409	Sanitary Sewer Mainline: Station 24+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
410	Sanitary Sewer Mainline: Station 25+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
411	Sanitary Sewer Mainline: Station 24+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
412	Sanitary Sewer Mainline: Station 25+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

412: The Contactor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000040
Report Date: 06/29/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
413		06/15/21	19	ASTM D1557	A-2-4	9.1	125.1	10.1	121.3	133.6	8	97	95	-2 / 2	Pass
414		06/15/21	19	ASTM D1557	A-2-4	9.1	125.1	9.5	122.3	133.9	8	98	95	-2 / 2	Pass
415		06/15/21	19	ASTM D1557	A-2-4	9.1	125.1	10.2	120.4	132.7	8	96	95	-2 / 2	Pass
416		06/15/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	116.1	129.3	8	100	95	-2 / 2	Pass
417		06/15/21	19	ASTM D1557	A-2-4	9.1	125.1	11.1	119.2	132.4	8	95	95	-2 / 2	Pass
418		06/15/21	14	ASTM D1557	A-2-4	13.0	116.6	12.0	115.8	129.7	8	99	95	-2 / 2	Pass
419		06/15/21	14	ASTM D1557	A-2-4	13.0	116.6	12.6	114.9	129.4	8	99	95	-2 / 2	Pass
420		06/15/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	115.5	130.4	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
413	Sanitary Sewer Mainline: Station 26+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
414	Sanitary Sewer Mainline: Station 26+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
415	Sanitary Sewer Manhole: SSMH-6, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
416	Sanitary Sewer Manhole: SSMH-6, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
417	Sanitary Sewer Manhole: SSMH-6, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
418	Sanitary Sewer Manhole: SSMH-6, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
419	Sanitary Sewer Manhole: SSMH-6, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
420	Sanitary Sewer Manhole: SSMH-6, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

420: The Contactor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000041
Report Date: 06/29/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
421		06/16/21	18		Class 1	7.1	141.9	5.9	139.1	147.3	8	98	95	-2 / 2	Pass
422		06/16/21	18		Class 1	7.1	141.9	6.4	137.1	145.9	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
421	Trickle Channel: Storm Detention Pond, Trickle Channel, 200' north of Forebay B	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
422	Trickle Channel: Storm Detention Pond, Trickle Channel, 100' north of Forebay B	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

422: The Contactor, Iron Woman, utilized one excavator and one jumping jack to apply compactive effort to the fill. Moisture was added to the fill

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000042
Report Date: 06/29/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
423		06/17/21	18		Class 1	7.1	141.9	6.1	135.9	144.2	8	96	95	-2 / 2	Pass
424		06/17/21	18		Class 1	7.1	141.9	6.5	136.4	145.3	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
423	Trickle Channel: Storm Detention Pond, Trickle Channel, 50' north of Forebay B	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
424	Trickle Channel: Storm Detention Pond, Trickle Channel, 100' east of Forebay A	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

424: The Contactor, Iron Woman, utilized one excavator and one jumping jack to apply compactive effort to the fill. Moisture was added to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000043
Report Date: 06/29/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
425		06/18/21	18		Class 1	7.1	141.9	6.8	136.7	146.0	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
425	Trickle Channel: Storm Detention Pond, Trickle Channel, 50' east of Forebay A	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

425: The Contactor, Iron Woman, utilized one excavator and one jumping jack to apply compactive effort to the fill. Moisture was added to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000044
Report Date: 06/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
426		06/21/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	112.9	128.1	8	97	95	-2 / 2	Pass
427		06/21/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	114.4	129.0	8	98	95	-2 / 2	Pass
428		06/21/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	114.0	128.9	8	98	95	-2 / 2	Pass
429		06/21/21	14	ASTM D1557	A-2-4	13.0	116.6	13.4	113.2	128.4	8	97	95	-2 / 2	Pass
430		06/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	114.8	127.7	8	98	95	-2 / 2	Pass
431		06/21/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	112.4	128.2	8	96	95	-2 / 2	Pass
432		06/21/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	115.4	129.5	8	99	95	-2 / 2	Pass
433		06/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.1	109.9	126.5	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
426	Sanitary Sewer Manhole: SSMH-13, north side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
427	Sanitary Sewer Manhole: SSMH-13, east side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
428	Sanitary Sewer Manhole: SSMH-13, west side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
429	Sanitary Sewer Manhole: SSMH-13, south side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
430	Sanitary Sewer Manhole: SSMH-13, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
431	Sanitary Sewer Manhole: SSMH-13, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
432	Sanitary Sewer Manhole: SSMH-13, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
433	Sanitary Sewer Manhole: SSMH-13, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000044
Report Date: 06/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
434		06/21/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	111.4	127.0	8	96	95	-2 / 2	Pass
435		06/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.7	108.7	125.8	8	98	95	0 / 4	Pass
436		06/21/21	06	ASTM D698	A-7-6	12.7	111.0	13.8	110.0	125.2	8	99	95	0 / 4	Pass
437		06/21/21	02	ASTM D698	A-6	15.2	109.4	17.0	108.8	127.3	8	99	95	0 / 4	Pass
438		06/21/21	02	ASTM D698	A-6	15.2	109.4	17.6	108.3	127.4	8	99	95	0 / 4	Pass
439		06/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.6	110.6	127.9	8	100	95	0 / 4	Pass
440		06/21/21	02	ASTM D698	A-6	15.2	109.4	16.1	108.2	125.6	8	99	95	0 / 4	Pass
441		06/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	107.6	124.3	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
434	Sanitary Sewer Manhole: SSMH-13, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
435	Sanitary Sewer Manhole: SSMH-13, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
436	Sanitary Sewer Manhole: SSMH-13, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
437	Sanitary Sewer Mainline: Station 47+75	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
438	Sanitary Sewer Mainline: Station 47+70	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
439	Sanitary Sewer Mainline: Station 47+80	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
440	Sanitary Sewer Mainline: Station 48+00	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
441	Sanitary Sewer Mainline: Station 47+75	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000044
Report Date: 06/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
442		06/21/21	02	ASTM D698	A-6	15.2	109.4	15.8	106.3	123.1	8	97	95	0 / 4	Pass
443		06/21/21	02	ASTM D698	A-6	15.2	109.4	16.9	105.1	122.9	8	96	95	0 / 4	Pass
444		06/21/21	02	ASTM D698	A-6	15.2	109.4	18.2	104.2	123.2	8	95	95	0 / 4	Pass
445		06/21/21	02	ASTM D698	A-6	15.2	109.4	16.4	108.8	126.6	8	99	95	0 / 4	Pass
446		06/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.3	109.0	125.7	8	98	95	0 / 4	Pass
447		06/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.9	106.6	123.5	8	96	95	0 / 4	Pass
448		06/21/21	02	ASTM D698	A-6	15.2	109.4	16.3	105.5	122.7	8	96	95	0 / 4	Pass
449		06/21/21	02	ASTM D698	A-6	15.2	109.4	16.6	104.1	121.4	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
442	Sanitary Sewer Mainline: Station 49+00	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
443	Sanitary Sewer Mainline: Station 48+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
444	Sanitary Sewer Mainline: Station 48+25	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
445	Sanitary Sewer Mainline: Station 48+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
446	Sanitary Sewer Mainline: Station 48+75	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
447	Sanitary Sewer Mainline: Station 48+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
448	Sanitary Sewer Mainline: Station 49+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
449	Sanitary Sewer Manhole: SSMH-14, north side	20.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000044
Report Date: 06/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
450		06/21/21	02	ASTM D698	A-6	15.2	109.4	17.0	105.7	123.7	8	97	95	0 / 4	Pass
451		06/21/21	02	ASTM D698	A-6	15.2	109.4	16.3	107.4	124.9	8	98	95	0 / 4	Pass
452		06/21/21	02	ASTM D698	A-6	15.2	109.4	15.8	107.5	124.5	8	98	95	0 / 4	Pass
453		06/21/21	02	ASTM D698	A-6	15.2	109.4	16.9	106.0	123.9	8	97	95	0 / 4	Pass
454		06/21/21	02	ASTM D698	A-6	15.2	109.4	17.9	105.3	124.1	8	96	95	0 / 4	Pass
455		06/21/21	06	ASTM D698	A-7-6	12.7	111.0	14.8	110.3	126.6	8	99	95	0 / 4	Pass
456		06/21/21	06	ASTM D698	A-7-6	12.7	111.0	13.2	109.8	124.3	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
450	Sanitary Sewer Manhole: SSMH-14, east side	19.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
451	Sanitary Sewer Manhole: SSMH-14, west side	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
452	Sanitary Sewer Manhole: SSMH-14, south side	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
453	Sanitary Sewer Manhole: SSMH-14, north side	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
454	Sanitary Sewer Manhole: SSMH-14, east side	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
455	Sanitary Sewer Manhole: SSMH-14, west side	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
456	Sanitary Sewer Manhole: SSMH-14, south side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

456: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000045
Report Date: 06/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
457		06/22/21	12	ASTM D698	A-6	14.1	116.4	16.0	114.0	132.2	8	98	95	0 / 4	Pass
458		06/22/21	12	ASTM D698	A-6	14.1	116.4	15.0	112.1	128.9	8	96	95	0 / 4	Pass
459		06/22/21	12	ASTM D698	A-6	14.1	116.4	16.3	113.2	131.7	8	97	95	0 / 4	Pass
460		06/22/21	06	ASTM D698	A-7-6	12.7	111.0	14.6	109.9	125.9	8	99	95	0 / 4	Pass
461		06/22/21	02	ASTM D698	A-6	15.2	109.4	15.9	107.9	125.1	8	99	95	0 / 4	Pass
462		06/22/21	02	ASTM D698	A-6	15.2	109.4	18.3	106.5	126.0	8	97	95	0 / 4	Pass
463		06/22/21	12	ASTM D698	A-6	14.1	116.4	17.5	111.2	130.7	8	96	95	0 / 4	Pass
464		06/22/21	06	ASTM D698	A-7-6	12.7	111.0	15.3	108.4	125.0	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
457	Sanitary Sewer Manhole: SSMH-12, south side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
458	Sanitary Sewer Manhole: SSMH-12, south side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
459	Sanitary Sewer Manhole: SSMH-12, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
460	Sanitary Sewer Manhole: SSMH-12, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
461	Sanitary Sewer Mainline: Station 11+00	20.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
462	Sanitary Sewer Mainline: Station 10+75	19.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
463	Sanitary Sewer Mainline: Station 11+25	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
464	Sanitary Sewer Mainline: Station 11+00	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000045
Report Date: 06/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
465		06/22/21	02	ASTM D698	A-6	15.2	109.4	18.4	106.1	125.6	8	97	95	0 / 4	Pass
466		06/22/21	02	ASTM D698	A-6	15.2	109.4	19.0	105.3	125.3	8	96	95	0 / 4	Pass
467		06/22/21	02	ASTM D698	A-6	15.2	109.4	17.1	107.4	125.8	8	98	95	0 / 4	Pass
468		06/22/21	06	ASTM D698	A-7-6	12.7	111.0	15.1	110.3	127.0	8	99	95	0 / 4	Pass
469		06/22/21	06	ASTM D698	A-7-6	12.7	111.0	16.4	110.6	128.7	8	100	95	0 / 4	Pass
470		06/22/21	06	ASTM D698	A-7-6	12.7	111.0	15.7	109.6	126.8	8	99	95	0 / 4	Pass
471		06/22/21	02	ASTM D698	A-6	15.2	109.4	17.0	106.9	125.1	8	98	95	0 / 4	Pass
472		06/22/21	02	ASTM D698	A-6	15.2	109.4	16.0	108.3	125.6	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
465	Sanitary Sewer Mainline: Station 10+75	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
466	Sanitary Sewer Mainline: Station 11+25	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
467	Sanitary Sewer Mainline: Station 11+00	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
468	Sanitary Sewer Mainline: Station 10+75	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
469	Sanitary Sewer Mainline: Station 12+00	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
470	Sanitary Sewer Mainline: Station 11+75	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
471	Sanitary Sewer Mainline: Station 11+50	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
472	Sanitary Sewer Mainline: Station 11+25	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000045
Report Date: 06/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
473		06/22/21	06	ASTM D698	A-7-6	12.7	111.0	14.8	109.8	126.1	8	99	95	0 / 4	Pass
474		06/22/21	14	ASTM D1557	A-2-4	13.0	116.6	12.4	109.1	122.6	8	94	95	-2 / 2	Fail
475	474	06/22/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	113.7	128.3	8	98	95	-2 / 2	Pass
476		06/22/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	112.0	127.8	8	96	95	-2 / 2	Pass
477		06/22/21	14	ASTM D1557	A-2-4	13.0	116.6	13.4	111.6	126.6	8	96	95	-2 / 2	Pass
478		06/22/21	14	ASTM D1557	A-2-4	13.0	116.6	13.4	113.5	128.7	8	97	95	-2 / 2	Pass
479		06/22/21	14	ASTM D1557	A-2-4	13.0	116.6	11.6	115.5	128.9	8	99	95	-2 / 2	Pass
480		06/22/21	19	ASTM D1557	A-2-4	9.1	125.1	11.1	117.4	130.4	8	94	95	-2 / 2	Fail

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
473	Sanitary Sewer Mainline: Station 11+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
474	Sanitary Sewer Mainline: Station 10+75	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
475	Sanitary Sewer Mainline: Station 10+75	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
476	Sanitary Sewer Mainline: Station 12+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
477	Sanitary Sewer Mainline: Station 11+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
478	Sanitary Sewer Mainline: Station 11+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
479	Sanitary Sewer Mainline: Station 11+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
480	Sanitary Sewer Mainline: Station 11+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Fail / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000045
Report Date: 06/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
481	480	06/22/21	19	ASTM D1557	A-2-4	9.1	125.1	10.9	118.9	131.9	8	95	95	-2 / 2	Pass
482		06/22/21	19	ASTM D1557	A-2-4	9.1	125.1	10.4	119.2	131.6	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
481	Sanitary Sewer Mainline: Station 11+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
482	Sanitary Sewer Mainline: Station 11+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

482: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000046
Report Date: 07/06/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
483		06/23/21	19	ASTM D1557	A-2-4	9.1	125.1	8.7	123.8	134.6	8	99	95	-2 / 2	Pass
484		06/23/21	19	ASTM D1557	A-2-4	9.1	125.1	10.2	120.4	132.7	8	96	95	-2 / 2	Pass
485		06/23/21	19	ASTM D1557	A-2-4	9.1	125.1	8.9	124.1	135.1	8	99	95	-2 / 2	Pass
486		06/23/21	19	ASTM D1557	A-2-4	9.1	125.1	9.4	119.1	130.3	8	95	95	-2 / 2	Pass
487		06/23/21	19	ASTM D1557	A-2-4	9.1	125.1	10.0	120.8	132.9	8	97	95	-2 / 2	Pass
488		06/23/21	19	ASTM D1557	A-2-4	9.1	125.1	9.4	121.7	133.1	8	97	95	-2 / 2	Pass
489		06/23/21	19	ASTM D1557	A-2-4	9.1	125.1	10.8	119.5	132.4	8	96	95	-2 / 2	Pass
490		06/23/21	19	ASTM D1557	A-2-4	9.1	125.1	11.2	118.4	131.7	8	95	95	-2 / 2	Fail

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
483	Sanitary Sewer Mainline: Station 12+50	18.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
484	Sanitary Sewer Mainline: Station 12+75	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
485	Sanitary Sewer Mainline: Station 13+00	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
486	Sanitary Sewer Mainline: Station 13+25	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
487	Sanitary Sewer Mainline: Station 12+50	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
488	Sanitary Sewer Mainline: Station 12+75	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
489	Sanitary Sewer Mainline: Station 13+00	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
490	Sanitary Sewer Mainline: Station 13+25	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Pass / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000046
Report Date: 07/06/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
491	490	06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	116.1	129.3	8	100	95	-2 / 2	Pass
492		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	115.9	129.5	8	99	95	-2 / 2	Pass
493		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	10.8	116.5	129.1	8	100	95	-2 / 2	Fail
494	493	06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	115.0	128.9	8	99	95	-2 / 2	Pass
495		06/23/21	19	ASTM D1557	A-2-4	9.1	125.1	9.6	118.9	130.3	8	95	95	-2 / 2	Pass
496		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	114.8	128.3	8	98	95	-2 / 2	Pass
497		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	113.8	127.6	8	98	95	-2 / 2	Pass
498		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	12.6	114.0	128.4	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
491	Sanitary Sewer Mainline: Station 13+25	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
492	Sanitary Sewer Mainline: Station 12+50	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
493	Sanitary Sewer Mainline: Station 12+75	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
494	Sanitary Sewer Mainline: Station 12+75	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
495	Sanitary Sewer Mainline: Station 13+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
496	Sanitary Sewer Mainline: Station 13+25	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
497	Sanitary Sewer Mainline: Station 12+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
498	Sanitary Sewer Mainline: Station 12+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Pass / Moisture Fail	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000046
Report Date: 07/06/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
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8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
499		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	113.1	128.9	8	97	95	-2 / 2	Pass
500		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	14.6	112.2	128.6	8	96	95	-2 / 2	Pass
501		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	112.9	128.6	8	97	95	-2 / 2	Pass
502		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	14.9	111.8	128.5	8	96	95	-2 / 2	Pass
503		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.7	127.1	8	96	95	-2 / 2	Pass
504		06/23/21	06	ASTM D698	A-7-6	12.7	111.0	14.0	110.5	126.0	8	100	95	0 / 4	Pass
505		06/23/21	02	ASTM D698	A-6	15.2	109.4	16.0	108.8	126.2	8	99	95	0 / 4	Pass
506		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	111.9	126.4	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
499	Sanitary Sewer Mainline: Station 13+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
500	Sanitary Sewer Mainline: Station 13+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
501	Sanitary Sewer Mainline: Station 12+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
502	Sanitary Sewer Mainline: Station 12+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
503	Sanitary Sewer Manhole: SSMH-15, north side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
504	Sanitary Sewer Manhole: SSMH-15, east side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
505	Sanitary Sewer Manhole: SSMH-15, west side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
506	Sanitary Sewer Manhole: SSMH-15, south side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000046
Report Date: 07/06/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
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Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
507		06/23/21	06	ASTM D698	A-7-6	12.7	111.0	14.6	110.2	126.3	8	99	95	0 / 4	Pass
508		06/23/21	06	ASTM D698	A-7-6	12.7	111.0	13.8	110.6	125.9	8	100	95	0 / 4	Pass
509		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	112.4	128.2	8	96	95	-2 / 2	Pass
510		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.0	115.0	127.7	8	99	95	-2 / 2	Pass
511		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	114.3	127.7	8	98	95	-2 / 2	Pass
512		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	112.9	127.0	8	97	95	-2 / 2	Pass
513		06/23/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	112.0	126.8	8	96	95	-2 / 2	Pass
514		06/23/21	06	ASTM D698	A-7-6	12.7	111.0	13.5	109.8	124.6	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
507	Sanitary Sewer Manhole: SSMH-15, north side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
508	Sanitary Sewer Manhole: SSMH-15, east side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
509	Sanitary Sewer Manhole: SSMH-15, west side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
510	Sanitary Sewer Manhole: SSMH-15, south side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
511	Sanitary Sewer Manhole: SSMH-15, north side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
512	Sanitary Sewer Manhole: SSMH-15, east side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
513	Sanitary Sewer Manhole: SSMH-15, west side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
514	Sanitary Sewer Manhole: SSMH-15, south side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000046
Report Date: 07/06/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
515		06/23/21	06	ASTM D698	A-7-6	12.7	111.0	14.4	108.4	124.0	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
515	Sanitary Sewer Manhole: SSMH-15, north side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

515: The Contactor, Iron Woman, utilized two excavators with compaction wheels to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000047
Report Date: 07/06/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
516		06/24/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	112.3	125.4	8	96	95	-2 / 2	Pass
517		06/24/21	02	ASTM D698	A-6	15.2	109.4	15.3	105.0	121.1	8	96	95	0 / 4	Pass
518		06/24/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	108.1	122.0	8	97	95	0 / 4	Pass
519		06/24/21	06	ASTM D698	A-7-6	12.7	111.0	14.4	109.2	124.9	8	98	95	0 / 4	Pass
520		06/24/21	06	ASTM D698	A-7-6	12.7	111.0	13.7	110.0	125.1	8	99	95	0 / 4	Pass
521		06/24/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	108.7	125.0	8	98	95	0 / 4	Pass
522		06/24/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	113.4	127.6	8	97	95	-2 / 2	Pass
523		06/24/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	115.8	132.6	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
516	Water Main: Station 93+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
517	Water Main: Station 92+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
518	Water Main: Station 92+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
519	Water Main: Station 91+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
520	Water Main: Station 91+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
521	Water Main: Station 90+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
522	Water Main: Station 90+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
523	Water Main: Station 89+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

523: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000048
Report Date: 07/06/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
524		06/25/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	110.4	124.8	8	99	95	0 / 4	Pass
525		06/25/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	114.2	127.0	8	98	95	-2 / 2	Pass
526		06/25/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	112.9	127.9	8	97	95	-2 / 2	Pass
527		06/25/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	114.3	127.9	8	98	95	-2 / 2	Pass
528		06/25/21	06	ASTM D698	A-7-6	12.7	111.0	14.0	109.9	125.3	8	99	95	0 / 4	Pass
529		06/25/21	06	ASTM D698	A-7-6	12.7	111.0	12.7	108.0	121.7	8	97	95	0 / 4	Pass
530		06/25/21	06	ASTM D698	A-7-6	12.7	111.0	15.2	108.7	125.2	8	98	95	0 / 4	Pass
531		06/25/21	06	ASTM D698	A-7-6	12.7	111.0	14.1	110.1	125.6	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
524	Water Main: Station 89+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
525	Water Main: Station 88+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
526	Water Main: Station 87+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
527	Water Main: Station 87+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
528	Water Main: Station 86+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
529	Water Main: Station 86+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
530	Water Main: Station 85+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
531	Water Main: Station 85+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

531: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000049
Report Date: 07/13/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
532		06/28/21	02	ASTM D698	A-6	15.2	109.4	16.7	104.3	121.7	8	95	95	0 / 4	Pass
533		06/28/21	02	ASTM D698	A-6	15.2	109.4	18.2	104.7	123.8	8	96	95	0 / 4	Pass
534		06/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	115.2	128.3	8	99	95	-2 / 2	Pass
535		06/28/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	113.9	128.6	8	98	95	-2 / 2	Pass
536		06/28/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	112.2	127.9	8	96	95	-2 / 2	Pass
537		06/28/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	113.1	128.4	8	97	95	-2 / 2	Pass
538		06/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.3	115.7	128.8	8	99	95	-2 / 2	Pass
539		06/28/21	19	ASTM D1557	A-2-4	9.1	125.1	9.1	119.5	130.4	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
532	Water Main: Station 84+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
533	Water Main: Station 84+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
534	Water Main: Station 83+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
535	Water Main: Station 83+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
536	Water Main: Station 82+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
537	Water Main: Station 82+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
538	Water Main: Station 81+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
539	Water Main: Station 81+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

539: The Contactor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000050
Report Date: 07/13/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
540		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	8.4	122.7	133.0	8	98	95	-2 / 2	Pass
541		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	9.4	119.8	131.1	8	96	95	-2 / 2	Pass
542		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	7.9	123.3	133.0	8	99	95	-2 / 2	Pass
543		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	8.9	122.2	133.1	8	98	95	-2 / 2	Pass
544		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	9.2	121.9	133.1	8	97	95	-2 / 2	Pass
545		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	7.6	123.4	132.8	8	99	95	-2 / 2	Pass
546		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	8.0	121.1	130.8	8	97	95	-2 / 2	Pass
547		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	9.0	120.0	130.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
540	Water Main: Station 68+00	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
541	Water Main: Station 68+25	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
542	Water Main: Station 67+50	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
543	Water Main: Station 67+75	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
544	Water Main: Station 68+00	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
545	Water Main: Station 68+25	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
546	Water Main: Station 67+25	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
547	Water Main: Station 67+50	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000050
Report Date: 07/13/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
548		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	8.7	120.6	131.1	8	96	95	-2 / 2	Pass
549		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	10.2	119.5	131.7	8	96	95	-2 / 2	Pass
550		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	10.7	119.8	132.6	8	96	95	-2 / 2	Pass
551		06/29/21	19	ASTM D1557	A-2-4	9.1	125.1	11.0	118.9	132.0	8	95	95	-2 / 2	Pass
552		06/29/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	116.3	129.6	8	100	95	-2 / 2	Pass
553		06/29/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	115.2	129.1	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
548	Water Main: Station 67+75	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
549	Water Main: Station 68+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
550	Water Main: Station 68+25	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
551	Water Main: Station 67+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
552	Water Main: Station 67+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
553	Water Main: Station 67+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

553: The Contactor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000051
Report Date: 07/13/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
554		06/30/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	114.3	129.2	8	98	95	-2 / 2	Pass
555		06/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	113.8	129.7	8	98	95	-2 / 2	Pass
556		06/30/21	12	ASTM D698	A-6	14.1	116.4	15.0	111.6	128.3	8	96	95	0 / 4	Pass
557		06/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.6	112.8	129.3	8	97	95	-2 / 2	Pass
558		06/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	113.2	129.4	8	97	95	-2 / 2	Pass
559		06/30/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	114.0	129.5	8	98	95	-2 / 2	Pass
560		06/30/21	18		Class 1	7.1	141.9	6.1	129.0	136.9	8	91	95	-2 / 2	Fail
561	560	06/30/21	18		Class 1	7.1	141.9	5.2	135.9	143.0	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
554	Water Main: Station 66+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
555	Water Main: Station 65+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
556	Water Main: Station 65+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
557	Water Main: Station 64+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
558	Water Main: Station 63+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
559	Water Main: Station 62+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
560	Trickle Channel: PLAN: STORM-1, trickle channel, 25' south of forebay	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
561	Trickle Channel: PLAN: STORM-1, trickle channel, 25' south of forebay	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000051
Report Date: 07/13/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
562		06/30/21	18		Class 1	7.1	141.9	5.6	134.9	142.5	8	95	95	-2 / 2	Pass
563		06/30/21	18		Class 1	7.1	141.9	5.4	136.2	143.6	8	96	95	-2 / 2	Pass
564		06/30/21	18		Class 1	7.1	141.9	7.9	132.4	142.9	8	93	95	-2 / 2	Fail
565	564	06/30/21	18		Class 1	7.1	141.9	5.8	135.4	143.3	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
562	Trickle Channel: PLAN: STORM-1, trickle channel, 50' south of forebay	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
563	Trickle Channel: PLAN: STORM-2, trickle channel, 25' south of forebay	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
564	Trickle Channel: PLAN: STORM-2, trickle channel, 50' south of forebay	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
565	Trickle Channel: PLAN: STORM-2, trickle channel, 50' south of forebay	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

565: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000052
Report Date: 07/13/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
566		07/01/21	06	ASTM D698	A-7-6	12.7	111.0	13.1	110.4	124.9	8	99	95	0 / 4	Pass
567		07/01/21	06	ASTM D698	A-7-6	12.7	111.0	14.6	108.8	124.7	8	98	95	0 / 4	Pass
568		07/01/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	114.8	129.6	8	98	95	-2 / 2	Pass
569		07/01/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	116.1	130.1	8	100	95	-2 / 2	Pass
570		07/01/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	115.2	129.8	8	99	95	-2 / 2	Pass
571		07/01/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	113.0	128.6	8	97	95	-2 / 2	Pass
572		07/01/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	114.1	129.5	8	98	95	-2 / 2	Pass
573		07/01/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	113.4	129.3	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
566	Water Main: Station 61+75	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
567	Water Main: Station 61+80	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
568	Water Main: Station 61+70	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
569	Water Main: Station 61+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
570	Water Main: Station 61+80	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
571	Water Main: Station 61+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
572	Water Main: Station 60+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
573	Water Main: Station 60+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000052
Report Date: 07/13/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
574		07/01/21	19	ASTM D1557	A-2-4	9.1	125.1	7.6	123.2	132.6	8	98	95	-2 / 2	Pass
575		07/01/21	19	ASTM D1557	A-2-4	9.1	125.1	8.4	121.6	131.8	8	97	95	-2 / 2	Pass
576		07/01/21	19	ASTM D1557	A-2-4	9.1	125.1	8.7	122.3	132.9	8	98	95	-2 / 2	Pass
577		07/01/21	19	ASTM D1557	A-2-4	9.1	125.1	10.7	121.9	134.9	8	97	95	-2 / 2	Pass
578		07/01/21	19	ASTM D1557	A-2-4	9.1	125.1	9.9	120.0	131.9	8	96	95	-2 / 2	Pass
579		07/01/21	19	ASTM D1557	A-2-4	9.1	125.1	10.5	119.2	131.7	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
574	Water Main: Station 69+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
575	Water Main: Station 70+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
576	Water Main: Station 70+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
577	Water Main: Station 71+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
578	Water Main: Station 72+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
579	Water Main: Station 73+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

579: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000053
Report Date: 07/13/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
580		07/02/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	115.8	130.6	8	99	95	-2 / 2	Pass
581		07/02/21	14	ASTM D1557	A-2-4	13.0	116.6	13.7	113.5	129.0	8	97	95	-2 / 2	Pass
582		07/02/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	114.4	129.5	8	98	95	-2 / 2	Pass
583		07/02/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	116.4	129.7	8	100	95	-2 / 2	Pass
584		07/02/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	114.7	129.3	8	98	95	-2 / 2	Pass
585		07/02/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	115.1	130.1	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
580	Water Main: Station 59+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
581	Water Main: Station 58+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
582	Water Main: Station 58+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
583	Water Main: Station 73+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
584	Water Main: Station 74+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
585	Water Main: Station 75+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

585: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000054
Report Date: 07/13/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
586		07/06/21	14	ASTM D1557	A-2-4	13.0	116.6	12.0	116.3	130.3	8	100	95	-2 / 2	Pass
587		07/06/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	115.8	131.2	8	99	95	-2 / 2	Pass
588		07/06/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	114.3	130.1	8	98	95	-2 / 2	Pass
589		07/06/21	19	ASTM D1557	A-2-4	9.1	125.1	11.0	118.9	132.0	8	95	95	-2 / 2	Pass
590		07/06/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	116.0	129.3	8	99	95	-2 / 2	Pass
591		07/06/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	113.6	129.5	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
586	Water Main: Station 75+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
587	Water Main: Station 76+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
588	Water Main: Station 77+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
589	Water Main: Station 78+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
590	Water Main: Station 79+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
591	Water Main: Station 79+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

591: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000055
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
592		07/07/21	06	ASTM D698	A-7-6	12.7	111.0	15.2	108.5	125.0	8	98	95	0 / 4	Pass
593		07/07/21	06	ASTM D698	A-7-6	12.7	111.0	14.8	106.5	122.3	8	96	95	0 / 4	Pass
594		07/07/21	06	ASTM D698	A-7-6	12.7	111.0	13.9	109.4	124.6	8	99	95	0 / 4	Pass
595		07/07/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	112.3	125.2	8	96	95	-2 / 2	Pass
596		07/07/21	06	ASTM D698	A-7-6	12.7	111.0	14.1	108.0	123.2	8	97	95	0 / 4	Pass
597		07/07/21	06	ASTM D698	A-7-6	12.7	111.0	15.3	106.1	122.3	8	96	95	0 / 4	Pass
598		07/07/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	109.0	123.2	8	98	95	0 / 4	Pass
599		07/07/21	06	ASTM D698	A-7-6	12.7	111.0	12.8	110.6	124.8	8	100	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
592	Sanitary Sewer Manhole: SSMH-14, north side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
593	Sanitary Sewer Manhole: SSMH-14, east side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
594	Sanitary Sewer Manhole: SSMH-14, west side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
595	Sanitary Sewer Manhole: SSMH-14, south side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
596	Sanitary Sewer Manhole: SSMH-14, north side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
597	Sanitary Sewer Manhole: SSMH-14, east side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
598	Sanitary Sewer Manhole: SSMH-14, west side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
599	Sanitary Sewer Manhole: SSMH-14, south side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000055
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
600		07/07/21	06	ASTM D698	A-7-6	12.7	111.0	13.4	109.9	124.6	8	99	95	0 / 4	Pass
601		07/07/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	111.1	125.0	8	95	95	-2 / 2	Pass
602		07/07/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	112.6	126.0	8	97	95	-2 / 2	Pass
603		07/07/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	112.0	125.6	8	96	95	-2 / 2	Pass
604		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	9.0	119.1	129.8	8	95	95	-2 / 2	Pass
605		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	8.2	120.5	130.4	8	96	95	-2 / 2	Pass
606		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	11.5	117.9	131.5	8	94	95	-2 / 2	Fail
607	606	07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	10.9	118.9	131.9	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
600	Sanitary Sewer Manhole: SSMH-14, north side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
601	Sanitary Sewer Manhole: SSMH-14, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
602	Sanitary Sewer Manhole: SSMH-14, west side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
603	Sanitary Sewer Manhole: SSMH-14, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
604	Sanitary Sewer Manhole: SSMH-15, south side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
605	Sanitary Sewer Manhole: SSMH-15, south side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
606	Sanitary Sewer Manhole: SSMH-15, south side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
607	Sanitary Sewer Manhole: SSMH-15, south side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000055
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
608		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	8.8	121.8	132.5	8	97	95	-2 / 2	Pass
609		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	10.6	119.1	131.7	8	95	95	-2 / 2	Pass
610		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	10.1	119.9	132.0	8	96	95	-2 / 2	Pass
611		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	9.8	121.3	133.2	8	97	95	-2 / 2	Pass
612		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	8.9	122.0	132.9	8	98	95	-2 / 2	Pass
613		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	11.2	118.5	131.8	8	95	95	-2 / 2	Fail
614	613	07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	9.9	119.5	131.3	8	96	95	-2 / 2	Pass
615		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	9.2	122.6	133.9	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
608	Sanitary Sewer Manhole: SSMH-15, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
609	Sanitary Sewer Manhole: SSMH-16, north side	17.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
610	Sanitary Sewer Manhole: SSMH-16, east side	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
611	Sanitary Sewer Manhole: SSMH-16, west side	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
612	Sanitary Sewer Manhole: SSMH-16, south side	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
613	Sanitary Sewer Manhole: SSMH-16, north side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
614	Sanitary Sewer Manhole: SSMH-16, north side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
615	Sanitary Sewer Manhole: SSMH-16, east side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Pass / Moisture Fail	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000055
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
616		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	9.6	121.1	132.7	8	97	95	-2 / 2	Pass
617		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	10.7	120.5	133.4	8	96	95	-2 / 2	Pass
618		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	8.7	121.6	132.2	8	97	95	-2 / 2	Pass
619		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	9.5	120.0	131.4	8	96	95	-2 / 2	Pass
620		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	11.4	117.4	130.8	8	94	95	-2 / 2	Fail
621	620	07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	10.4	119.6	132.0	8	96	95	-2 / 2	Pass
622		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	10.2	119.0	131.1	8	95	95	-2 / 2	Pass
623		07/07/21	19	ASTM D1557	A-2-4	9.1	125.1	11.0	117.1	130.0	8	94	95	-2 / 2	Fail

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
616	Sanitary Sewer Manhole: SSMH-16, west side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
617	Sanitary Sewer Manhole: SSMH-16, south side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
618	Sanitary Sewer Manhole: SSMH-16, north side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
619	Sanitary Sewer Manhole: SSMH-16, east side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
620	Sanitary Sewer Manhole: SSMH-16, west side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
621	Sanitary Sewer Manhole: SSMH-16, west side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
622	Sanitary Sewer Manhole: SSMH-16, south side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
623	Sanitary Sewer Manhole: SSMH-16, north side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Fail

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000055
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
624	623	07/07/21	14	ASTM D1557	A-2-4	13.0	116.6	11.1	116.5	129.4	8	100	95	-2 / 2	Pass
625		07/07/21	14	ASTM D1557	A-2-4	13.0	116.6	12.0	115.6	129.5	8	99	95	-2 / 2	Pass
626		07/07/21	14	ASTM D1557	A-2-4	13.0	116.6	12.6	115.0	129.5	8	99	95	-2 / 2	Pass
627		07/07/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	114.7	129.6	8	98	95	-2 / 2	Pass
628		07/07/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	116.0	129.2	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
624	Sanitary Sewer Manhole: SSMH-16, north side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
625	Sanitary Sewer Manhole: SSMH-16, east side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
626	Sanitary Sewer Manhole: SSMH-16, west side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
627	Sanitary Sewer Manhole: SSMH-16, south side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
628	Sanitary Sewer Manhole: SSMH-16, north side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

628: The Contactor, Iron Woman, utilized two excavators with compaction wheels to place apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000056
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
629		07/08/21	06	ASTM D698	A-7-6	12.7	111.0	14.1	110.7	126.3	8	100	95	0 / 4	Pass
630		07/08/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	112.4	128.0	8	96	95	-2 / 2	Pass
631		07/08/21	12	ASTM D698	A-6	14.1	116.4	15.2	111.6	128.6	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
629	Water Main: Station 57+50	3.0	BSG	Troxler / 3430 / 26073 /	Young, Dustin
630	Water Main: Station 56+50	2.0	BSG	Troxler / 3430 / 26073 /	Young, Dustin
631	Water Main: Station 56+00	1.0	BSG	Troxler / 3430 / 26073 /	Young, Dustin

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

631: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000057
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
632		07/09/21	06	ASTM D698	A-7-6	12.7	111.0	16.1	110.9	128.8	8	100	95	0 / 4	Pass
633		07/09/21	12	ASTM D698	A-6	14.1	116.4	15.3	111.4	128.4	8	96	95	0 / 4	Pass
634		07/09/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	113.9	129.7	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
632	Water Main: Station 55+00	3.0	BSG	Troxler / 3430 / 26073 /	Young, Dustin
633	Water Main: Station 54+00	2.0	BSG	Troxler / 3430 / 26073 /	Young, Dustin
634	Water Main: Station 53+50	1.0	BSG	Troxler / 3430 / 26073 /	Young, Dustin

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

634: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000058
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
635		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	7.3	120.5	129.3	8	96	95	-2 / 2	Pass
636		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	8.1	119.4	129.1	8	95	95	-2 / 2	Pass
637		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	8.0	124.1	134.0	8	99	95	-2 / 2	Pass
638		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	8.2	120.1	129.9	8	96	95	-2 / 2	Pass
639		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	7.8	119.5	128.8	8	96	95	-2 / 2	Pass
640		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	8.0	120.3	129.9	8	96	95	-2 / 2	Pass
641		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	8.9	123.9	134.9	8	99	95	-2 / 2	Pass
642		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	9.9	119.9	131.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
635	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
636	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
637	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
638	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
639	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
640	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
641	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
642	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000058
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
643		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	9.0	120.9	131.8	8	97	95	-2 / 2	Pass
644		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	9.2	119.3	130.3	8	95	95	-2 / 2	Pass
645		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	8.8	120.9	131.5	8	97	95	-2 / 2	Pass
646		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	8.3	119.1	129.0	8	95	95	-2 / 2	Pass
647		07/12/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	116.4	130.3	8	100	95	-2 / 2	Pass
648		07/12/21	14	ASTM D1557	A-2-4	13.0	116.6	12.3	115.6	129.8	8	99	95	-2 / 2	Pass
649		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	10.3	122.7	135.3	8	98	95	-2 / 2	Pass
650		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	10.9	119.1	132.1	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
643	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
644	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
645	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
646	Sanitary Sewer Mainline: Sanitary Crossing under Belford Avenue at Station 68+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
647	Water Main: Water Crossing under Belford Avenue at Station 88+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
648	Water Main: Water Crossing under Belford Avenue at Station 88+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
649	Water Main: Water Crossing under Belford Avenue at Station 88+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
650	Water Main: Water Crossing under Belford Avenue at Station 88+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000058
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
651		07/12/21	19	ASTM D1557	A-2-4	9.1	125.1	10.7	122.4	135.5	8	98	95	-2 / 2	Pass
652		07/12/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	112.7	127.6	8	97	95	-2 / 2	Pass
653		07/12/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	114.3	128.9	8	98	95	-2 / 2	Pass
654		07/12/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	115.3	128.6	8	99	95	-2 / 2	Pass
655		07/12/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	113.5	128.4	8	97	95	-2 / 2	Pass
656		07/12/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	114.2	128.8	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
651	Water Main: Water Crossing under Belford Avenue at Station 88+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
652	Water Main: Water Crossing under Belford Avenue at Station 77+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
653	Water Main: Water Crossing under Belford Avenue at Station 77+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
654	Water Main: Water Crossing under Belford Avenue at Station 77+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
655	Water Main: Water Crossing under Belford Avenue at Station 77+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
656	Water Main: Water Crossing under Belford Avenue at Station 77+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

656: The Contactor, Iron Woman, utilized two excavators with wheel attachments to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000059
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
657		07/13/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	115.7	131.9	8	99	95	-2 / 2	Pass
658		07/13/21	12	ASTM D698	A-6	14.1	116.4	15.3	112.4	129.6	8	97	95	0 / 4	Pass
659		07/13/21	06	ASTM D698	A-7-6	12.7	111.0	16.0	109.5	127.0	8	99	95	0 / 4	Pass
660		07/13/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	110.1	127.2	8	99	95	0 / 4	Pass
661		07/13/21	14	ASTM D1557	A-2-4	13.0	116.6	14.4	111.4	127.4	8	96	95	-2 / 2	Pass
662		07/13/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	113.1	128.5	8	97	95	-2 / 2	Pass
663		07/13/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	112.4	127.6	8	96	95	-2 / 2	Pass
664		07/13/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	111.9	127.6	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
657	Water Main: Station 48+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
658	Water Main: Station 49+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
659	Water Main: Station 50+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
660	Water Main: Station 51+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
661	Water Main: Station 52+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
662	Water Main: Station 53+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
663	Water Main: Water Crossing under Belford Avenue at Station 53+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
664	Water Main: Water Crossing under Belford Avenue at Station 53+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000059
Report Date: 07/20/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
665		07/13/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	113.3	127.5	8	97	95	-2 / 2	Pass
666		07/13/21	14	ASTM D1557	A-2-4	13.0	116.6	13.4	112.1	127.1	8	96	95	-2 / 2	Pass
667		07/13/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	113.5	128.0	8	97	95	-2 / 2	Pass
668		07/13/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	111.1	127.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
665	Water Main: Water Crossing under Belford Avenue at Station 53+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
666	Water Main: Water Crossing under Belford Avenue at Station 65+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
667	Water Main: Water Crossing under Belford Avenue at Station 65+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
668	Water Main: Water Crossing under Belford Avenue at Station 65+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

668: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000060
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
669		07/15/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	116.3	129.3	8	100	95	-2 / 2	Pass
670		07/15/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	107.6	121.6	8	97	95	0 / 4	Pass
671		07/15/21	12	ASTM D698	A-6	14.1	116.4	14.7	113.6	130.3	8	98	95	0 / 4	Pass
672		07/15/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	113.9	127.8	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
669	Storm Sewer Main: PLAN: STORM-12, Station 12+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
670	Storm Sewer Main: PLAN: STORM-12, Station 12+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
671	Storm Sewer Main: PLAN: STORM-12, Station 13+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
672	Storm Sewer Main: PLAN: STORM-12, Station 13+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

672: The Contactor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000061
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
673		07/16/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	112.1	127.9	8	96	95	-2 / 2	Pass
674		07/16/21	14	ASTM D1557	A-2-4	13.0	116.6	12.0	114.5	128.2	8	98	95	-2 / 2	Pass
675		07/16/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	113.9	128.5	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
673	Storm Sewer Main: PLAN: STORM-12, Station 14+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
674	Storm Sewer Main: PLAN: STORM-12, Station 15+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
675	Storm Sewer Main: PLAN: STORM-12, Station 15+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

675: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. A water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000062
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
676		07/19/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	113.3	127.5	8	97	95	-2 / 2	Pass
677		07/19/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	111.8	126.6	8	96	95	-2 / 2	Pass
678		07/19/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	113.9	127.0	8	98	95	-2 / 2	Pass
679		07/19/21	06	ASTM D698	A-7-6	12.7	111.0	13.6	110.9	126.0	8	100	95	0 / 4	Pass
680		07/19/21	14	ASTM D1557	A-2-4	13.0	116.6	11.1	115.7	128.5	8	99	95	-2 / 2	Pass
681		07/19/21	06	ASTM D698	A-7-6	12.7	111.0	14.0	109.8	125.2	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
676	Storm Sewer Main: PLAN: STORM-12, Station 16+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
677	Storm Sewer Main: PLAN: STORM-12, Station 16+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
678	Storm Sewer Main: PLAN: STORM-12, Station 16+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
679	Storm Sewer Main: PLAN: STORM-12, Station 16+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
680	Storm Sewer Main: PLAN: STORM-12, Station 17+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
681	Storm Sewer Main: PLAN: STORM-12, Station 18+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

681: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. A water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000063
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
682		07/20/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	112.6	127.2	8	97	95	-2 / 2	Pass
683		07/20/21	06	ASTM D698	A-7-6	12.7	111.0	14.3	110.2	126.0	8	99	95	0 / 4	Pass
684		07/20/21	06	ASTM D698	A-7-6	12.7	111.0	15.9	108.8	126.1	8	98	95	0 / 4	Pass
685		07/20/21	06	ASTM D698	A-7-6	12.7	111.0	14.7	109.5	125.6	8	99	95	0 / 4	Pass
686		07/20/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	113.0	127.4	8	97	95	-2 / 2	Pass
687		07/20/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	113.7	127.5	8	98	95	-2 / 2	Pass
688		07/20/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	111.3	126.8	8	95	95	-2 / 2	Pass
689		07/20/21	14	ASTM D1557	A-2-4	13.0	116.6	14.4	112.1	128.2	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
682	Storm Sewer Main: PLAN: STORM-12, Station 17+25	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
683	Storm Sewer Main: PLAN: STORM-12, Station 18+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
684	Storm Sewer Main: PLAN: STORM-12, Station 17+75	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
685	Storm Sewer Main: PLAN: STORM-12, Station 18+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
686	Storm Sewer Main: PLAN: STORM-FUTURE STORM CAP, Station 8+50	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
687	Storm Sewer Main: PLAN: STORM-FUTURE STORM CAP, Station 9+00	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
688	Storm Sewer Main: PLAN: STORM-FUTURE STORM CAP, Station 8+75	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
689	Storm Sewer Main: PLAN: STORM-FUTURE STORM CAP, Station 9+25	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

689: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. A water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000064
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
690		07/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	116.1	129.3	8	100	95	-2 / 2	Pass
691		07/21/21	19	ASTM D1557	A-2-4	9.1	125.1	10.6	120.2	132.9	8	96	95	-2 / 2	Pass
692		07/21/21	19	ASTM D1557	A-2-4	9.1	125.1	11.0	119.3	132.4	8	95	95	-2 / 2	Pass
693		07/21/21	19	ASTM D1557	A-2-4	9.1	125.1	10.7	118.8	131.5	8	95	95	-2 / 2	Pass
694		07/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.3	116.1	129.2	8	100	95	-2 / 2	Pass
695		07/21/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	115.7	129.2	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
690	Storm Sewer Main: PLAN: STORM-12, Station 18+75	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
691	Storm Sewer Main: PLAN: STORM-12, Station 19+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
692	Storm Sewer Main: PLAN: STORM-12, Station 19+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
693	Storm Sewer Main: PLAN: STORM-12, Station 20+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
694	Storm Sewer Main: PLAN: STORM-12, Station 19+75	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
695	Storm Sewer Main: PLAN: STORM-12, Station 20+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

695: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. A water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000065
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
696		07/23/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	112.0	127.5	8	96	95	-2 / 2	Pass
697		07/23/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	114.1	128.6	8	98	95	-2 / 2	Pass
698		07/23/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	113.5	128.3	8	97	95	-2 / 2	Pass
699		07/23/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	112.8	128.6	8	97	95	-2 / 2	Pass
700		07/23/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	111.1	127.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
696	Storm Sewer Main: PLAN: STORM-FUTURE CAP, Station 8+50	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
697	Storm Sewer Main: PLAN: STORM-FUTURE CAP, Station 9+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
698	Storm Sewer Main: PLAN: STORM-FUTURE CAP, Station 8+75	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
699	Storm Sewer Main: PLAN: STORM-FUTURE CAP, Station 9+25	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
700	Storm Sewer Main: PLAN: STORM-FUTURE CAP, Station 8+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

700: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. A water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000066
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
701		07/27/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	112.0	126.6	8	96	95	-2 / 2	Pass
702		07/27/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	113.7	127.9	8	98	95	-2 / 2	Pass
703		07/27/21	14	ASTM D1557	A-2-4	13.0	116.6	14.8	112.4	129.0	8	96	95	-2 / 2	Pass
704		07/27/21	12	ASTM D698	A-6	14.1	116.4	16.0	111.3	129.1	8	96	95	0 / 4	Pass
705		07/27/21	02	ASTM D698	A-6	15.2	109.4	17.5	107.2	126.0	8	98	95	0 / 4	Pass
706		07/27/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	114.1	128.6	8	98	95	-2 / 2	Pass
707		07/27/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	109.1	124.9	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
701	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 9+75	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
702	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 10+00	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
703	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 10+50	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
704	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 11+00	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
705	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 11+50	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
706	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 10+25	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
707	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 10+75	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

707: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. A water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000067
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
708		07/28/21	06	ASTM D698	A-7-6	12.7	111.0	16.6	106.2	123.8	8	96	95	0 / 4	Pass
709		07/28/21	02	ASTM D698	A-6	15.2	109.4	16.2	105.5	122.6	8	96	95	0 / 4	Pass
710		07/28/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	108.6	124.9	8	98	95	0 / 4	Pass
711		07/28/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	107.9	124.6	8	97	95	0 / 4	Pass
712		07/28/21	06	ASTM D698	A-7-6	12.7	111.0	14.0	109.9	125.3	8	99	95	0 / 4	Pass
713		07/28/21	06	ASTM D698	A-7-6	12.7	111.0	16.0	107.1	124.2	8	96	95	0 / 4	Pass
714		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	114.3	127.9	8	98	95	-2 / 2	Pass
715		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	13.4	112.8	127.9	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
708	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 11+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
709	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 11+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
710	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 10+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
711	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 10+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
712	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 11+25	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
713	Storm Sewer Main: PLAN: STORM FUTURE CAP, Station 10+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
714	Storm Sewer Manhole: PLAN: STORM FUTURE CAP, STMH 3-9, north side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
715	Storm Sewer Manhole: PLAN: STORM FUTURE CAP, STMH 3-9, east side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000067
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
716		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	113.4	128.0	8	97	95	-2 / 2	Pass
717		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	114.8	128.3	8	98	95	-2 / 2	Pass
718		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.0	116.5	129.3	8	100	95	-2 / 2	Pass
719		07/28/21	19	ASTM D1557	A-2-4	9.1	125.1	10.8	120.3	133.3	8	96	95	-2 / 2	Pass
720		07/28/21	19	ASTM D1557	A-2-4	9.1	125.1	10.1	121.3	133.6	8	97	95	-2 / 2	Pass
721		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	112.9	125.8	8	97	95	-2 / 2	Pass
722		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	114.4	128.2	8	98	95	-2 / 2	Pass
723		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	113.3	128.7	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
716	Storm Sewer Manhole: PLAN: STORM FUTURE CAP, STMH 3-9, west side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
717	Storm Sewer Manhole: PLAN: STORM FUTURE CAP, STMH 3-9, south side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
718	Storm Sewer Manhole: PLAN: STORM FUTURE CAP, STMH 3-9, north side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
719	Storm Sewer Manhole: PLAN: STORM FUTURE CAP, STMH 3-9, east side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
720	Storm Sewer Manhole: PLAN: STORM FUTURE CAP, STMH 3-9, west side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
721	Sanitary Sewer Mainline: Station 35+50	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
722	Sanitary Sewer Mainline: Station 35+25	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
723	Sanitary Sewer Mainline: Station 35+00	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000067
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
724		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	14.8	111.9	128.5	8	96	95	-2 / 2	Pass
725		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	113.9	128.8	8	98	95	-2 / 2	Pass
726		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	110.8	126.4	8	95	95	-2 / 2	Pass
727		07/28/21	14	ASTM D1557	A-2-4	13.0	116.6	15.0	111.3	128.0	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
724	Sanitary Sewer Mainline: Station 34+75	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
725	Sanitary Sewer Mainline: Station 34+50	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
726	Sanitary Sewer Mainline: Station 35+50	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
727	Sanitary Sewer Mainline: Station 35+25	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

727: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. A water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000068
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
728		07/29/21	06	ASTM D698	A-7-6	12.7	111.0	16.0	109.6	127.1	8	99	95	0 / 4	Pass
729		07/29/21	06	ASTM D698	A-7-6	12.7	111.0	15.8	110.1	127.5	8	99	95	0 / 4	Pass
730		07/29/21	12	ASTM D698	A-6	14.1	116.4	15.0	112.0	128.8	8	96	95	0 / 4	Pass
731		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	14.7	113.1	129.7	8	97	95	-2 / 2	Pass
732		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	111.4	127.6	8	96	95	-2 / 2	Pass
733		07/29/21	12	ASTM D698	A-6	14.1	116.4	15.3	110.9	127.9	8	95	95	0 / 4	Pass
734		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	116.2	130.0	8	100	95	-2 / 2	Pass
735		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	115.6	130.9	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
728	Sanitary Sewer Mainline: Station 35+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
729	Sanitary Sewer Mainline: Station 34+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
730	Sanitary Sewer Mainline: Station 34+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
731	Sanitary Sewer Mainline: Station 35+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
732	Sanitary Sewer Mainline: Station 35+25	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
733	Sanitary Sewer Mainline: Station 35+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
734	Storm Sewer Main: PLAN: STORM-12, 20' south of STMH 11-12	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
735	Storm Sewer Main: PLAN: STORM-12, 15' south of STMH 11-12	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000068
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
736		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	114.8	129.6	8	98	95	-2 / 2	Pass
737		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	114.0	129.5	8	98	95	-2 / 2	Pass
738		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	116.4	131.0	8	100	95	-2 / 2	Pass
739		07/29/21	19	ASTM D1557	A-2-4	9.1	125.1	10.8	119.0	131.9	8	95	95	-2 / 2	Pass
740		07/29/21	19	ASTM D1557	A-2-4	9.1	125.1	9.4	119.9	131.2	8	96	95	-2 / 2	Pass
741		07/29/21	19	ASTM D1557	A-2-4	9.1	125.1	10.1	118.9	130.9	8	95	95	-2 / 2	Pass
742		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	115.6	130.0	8	99	95	-2 / 2	Pass
743		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	111.0	126.7	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
736	Storm Sewer Main: PLAN: STORM-12, 40' south of STMH 11-12	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
737	Storm Sewer Main: PLAN: STORM-12, 30' south of STMH 11-12	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
738	Storm Sewer Main: PLAN: STORM-12, 10' south of STMH 11-12	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
739	Storm Sewer Main: PLAN: STORM-12, 25' south of STMH 11-12	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
740	Storm Sewer Main: PLAN: STORM-12, Station 10+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
741	Storm Sewer Main: PLAN: STORM-12, Station 10+25	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
742	Storm Sewer Main: PLAN: STORM-5B, Station 10+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
743	Storm Sewer Main: PLAN: STORM-5B, Station 10+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000068
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
744		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	114.0	129.2	8	98	95	-2 / 2	Pass
745		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	12.3	114.7	128.8	8	98	95	-2 / 2	Pass
746		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	14.8	112.8	129.5	8	97	95	-2 / 2	Pass
747		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	14.4	112.0	128.1	8	96	95	-2 / 2	Pass
748		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	115.2	130.8	8	99	95	-2 / 2	Pass
749		07/29/21	14	ASTM D1557	A-2-4	13.0	116.6	15.0	113.1	130.1	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
744	Storm Sewer Main: PLAN: STORM-5B, Station 11+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
745	Storm Sewer Main: PLAN: STORM-5B, Station 11+75	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
746	Storm Sewer Main: PLAN: STORM-5B, Station 11+25	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
747	Storm Sewer Main: PLAN: STORM-5B, Station 11+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
748	Storm Sewer Main: PLAN: STORM-5B, Station 11+75	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
749	Storm Sewer Main: PLAN: STORM-5B, Station 11+25	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

749: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. A water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000069
Report Date: 08/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
750		08/03/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	116.5	130.2	8	100	95	-2 / 2	Pass
751		08/03/21	14	ASTM D1557	A-2-4	13.0	116.6	12.6	115.5	130.1	8	99	95	-2 / 2	Pass
752		08/03/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	113.7	129.2	8	98	95	-2 / 2	Pass
753		08/03/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	114.3	129.0	8	98	95	-2 / 2	Pass
754		08/03/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	113.0	128.8	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
750	Storm Sewer Main: PLAN: STORM-12, Station 12+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
751	Storm Sewer Main: PLAN: STORM-12, Station 13+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
752	Storm Sewer Main: PLAN: STORM-12, Station 13+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
753	Storm Sewer Main: PLAN: STORM-12, Station 12+25	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
754	Storm Sewer Main: PLAN: STORM-12, Station 13+25	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

754: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. A water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000070
Report Date: 08/18/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
755		08/04/21	19	ASTM D1557	A-2-4	9.1	125.1	9.8	119.3	131.0	8	95	95	-2 / 2	Pass
756		08/04/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	116.6	130.5	8	100	95	-2 / 2	Pass
757		08/04/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	115.8	129.1	8	99	95	-2 / 2	Pass
758		08/04/21	16	ASTM D698	A-6	17.2	108.6	20.7	103.3	124.7	8	95	95	0 / 4	Pass
759		08/04/21	15	ASTM D698	A-6	21.2	103.0	22.9	101.1	124.3	8	98	95	0 / 4	Pass
760		08/04/21	06	ASTM D698	A-7-6	12.7	111.0	15.1	107.9	124.2	8	97	95	0 / 4	Pass
761		08/04/21	06	ASTM D698	A-7-6	12.7	111.0	15.7	109.3	126.5	8	98	95	0 / 4	Pass
762		08/04/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	116.5	131.5	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
755	Water Main: PLAN: 12" WATERLINE, Station 65+68, under Belford Avenue	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
756	Water Main: PLAN: 12" WATERLINE, Station 65+68, under Belford Avenue	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
757	Water Main: PLAN: 12" WATERLINE, Station 65+68, under Belford Avenue	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
758	Storm Sewer Main: PLAN: STORM-12, Station 14+25	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
759	Storm Sewer Main: PLAN: STORM-12, Station 15+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
760	Storm Sewer Main: PLAN: STORM-12, Station 15+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
761	Storm Sewer Main: PLAN: STORM-12, Station 16+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
762	Storm Sewer Main: PLAN: STORM-12, Station 14+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000070
Report Date: 08/18/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
763		08/04/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	112.6	127.8	8	97	95	-2 / 2	Pass
764		08/04/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	108.6	121.7	8	93	95	-2 / 2	Fail
765	764	08/04/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	111.3	127.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
763	Storm Sewer Main: PLAN: STORM-12, Station 15+25	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
764	Storm Sewer Main: PLAN: STORM-12, Station 15+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
765	Storm Sewer Main: PLAN: STORM-12, Station 15+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

765: The Contractor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000071
Report Date: 08/18/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
766		08/05/21	06	ASTM D698	A-7-6	12.7	111.0	13.3	109.2	123.7	8	98	95	0 / 4	Pass
767		08/05/21	06	ASTM D698	A-7-6	12.7	111.0	14.1	108.5	123.8	8	98	95	0 / 4	Pass
768		08/05/21	16	ASTM D698	A-6	17.2	108.6	18.5	103.4	122.5	8	95	95	0 / 4	Pass
769		08/05/21	02	ASTM D698	A-6	15.2	109.4	16.2	104.0	120.8	8	95	95	0 / 4	Pass
770		08/05/21	06	ASTM D698	A-7-6	12.7	111.0	15.1	108.2	124.5	8	97	95	0 / 4	Pass
771		08/05/21	14	ASTM D1557	A-2-4	13.0	116.6	14.7	112.3	128.8	8	96	95	-2 / 2	Pass
772		08/05/21	12	ASTM D698	A-6	14.1	116.4	15.5	111.0	128.2	8	95	95	0 / 4	Pass
773		08/05/21	19	ASTM D1557	A-2-4	9.1	125.1	7.7	119.4	128.6	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
766	Storm Sewer Main: PLAN: STORM-12, Station 17+00	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
767	Storm Sewer Main: PLAN: STORM-12, Station 17+50	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
768	Storm Sewer Main: PLAN: STORM-12, Station 18+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
769	Storm Sewer Main: PLAN: STORM-12, Station 17+25	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
770	Storm Sewer Main: PLAN: STORM-12, Station 17+75	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
771	Storm Sewer Main: PLAN: STORM-12, Station 18+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
772	Storm Sewer Main: PLAN: STORM-12, Station 18+75	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
773	Trickle Channel: PLAN: DETENTION POND, 100' east of Forebay A	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000071
Report Date: 08/18/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
774		08/05/21	19	ASTM D1557	A-2-4	9.1	125.1	7.4	124.2	133.4	8	99	95	-2 / 2	Pass
775		08/05/21	19	ASTM D1557	A-2-4	9.1	125.1	10.5	119.5	132.0	8	96	95	-2 / 2	Pass
776		08/05/21	19	ASTM D1557	A-2-4	9.1	125.1	7.1	125.1	134.0	8	100	95	-2 / 2	Pass
777		08/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.3	115.8	128.9	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
774	Trickle Channel: PLAN: DETENTION POND, 50' east of Forebay A	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
775	Trickle Channel: PLAN: DETENTION POND, 30' north of Forebay B	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
776	Trickle Channel: PLAN: DETENTION POND, 150' north of Forebay B	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
777	Trickle Channel: PLAN: DETENTION POND, 200' north of Forebay B	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

777: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000072
Report Date: 08/18/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
778		08/06/21	18		Class 1	7.1	141.9	6.7	126.0	134.4	8	89	95	-2 / 2	Fail
779		08/06/21	18		Class 1	7.1	141.9	7.0	124.5	133.2	8	88	95	-2 / 2	Fail
780		08/06/21	18		Class 1	7.1	141.9	7.2	123.5	132.4	8	87	95	-2 / 2	Fail
781		08/06/21	18		Class 1	7.1	141.9	6.4	127.6	135.8	8	90	95	-2 / 2	Fail
782		08/06/21	18		Class 1	7.1	141.9	5.9	129.1	136.7	8	91	95	-2 / 2	Fail

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
778	Trickle Channel: PLAN: DETENTION POND, 100' east of Forebay A	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
779	Trickle Channel: PLAN: DETENTION POND, 50' east of Forebay A	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
780	Trickle Channel: PLAN: DETENTION POND, 30' north of Forebay B	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
781	Trickle Channel: PLAN: DETENTION POND, 150' north of Forebay B	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
782	Trickle Channel: PLAN: DETENTION POND, 200' north of Forebay B	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

782: The Contractor, Iron Woman, utilized one remote controlled sheepsfoot to apply compactive effort to the fill. Contractor was informed of failing tests

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000073
Report Date: 08/18/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
783	778	08/11/21	18		Class 1	7.1	141.9	6.3	136.1	144.7	8	96	95	-2 / 2	Pass
784	779	08/11/21	18		Class 1	7.1	141.9	5.3	135.5	142.7	8	95	95	-2 / 2	Pass
785	780	08/11/21	18		Class 1	7.1	141.9	5.2	134.9	141.9	8	95	95	-2 / 2	Pass
786	781	08/11/21	18		Class 1	7.1	141.9	5.5	137.1	144.6	8	97	95	-2 / 2	Pass
787	782	08/11/21	18		Class 1	7.1	141.9	6.1	136.3	144.6	8	96	95	-2 / 2	Pass
788		08/11/21	18		Class 1	7.1	141.9	11.0	124.2	137.9	8	88	95	-2 / 2	Fail
789		08/11/21	18		Class 1	7.1	141.9	10.6	124.5	137.7	8	88	95	-2 / 2	Fail
790		08/11/21	18		Class 1	7.1	141.9	9.9	125.8	138.3	8	89	95	-2 / 2	Fail

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
783	Trickle Channel: PLAN: DETENTION POND, 100' east of Forebay A	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
784	Trickle Channel: PLAN: DETENTION POND, 50' east of Forebay A	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
785	Trickle Channel: PLAN: DETENTION POND, 30' north of Forebay B	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
786	Trickle Channel: PLAN: DETENTION POND, 150' north of Forebay B	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
787	Trickle Channel: PLAN: DETENTION POND, 200' north of Forebay B	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
788	Box Culvert: Walls: Conspan under Belford Avenue, east wall exterior, 50' south of north side	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
789	Box Culvert: Walls: Conspan under Belford Avenue, east wall exterior, 100' south of north side	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
790	Box Culvert: Walls: Conspan under Belford Avenue, east wall exterior, 50' north of south side	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

790: The Contractor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material. One remote controlled sheepsfoot was used to apply compactive effort to the fill material. Class 1 material was too wet to achieve sufficient compaction at this time. Contractor was informed of failing tests.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000074
Report Date: 08/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
791		08/12/21	14	ASTM D1557	A-2-4	13.0	116.6	14.7	116.5	133.6	8	100	95	-2 / 2	Pass
792		08/12/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	112.7	128.8	8	97	95	-2 / 2	Pass
793		08/12/21	06	ASTM D698	A-7-6	12.7	111.0	14.0	108.9	124.1	8	98	95	0 / 4	Pass
794		08/12/21	06	ASTM D698	A-7-6	12.7	111.0	13.6	110.1	125.1	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
791	Storm Sewer Main: PLAN: STORM-12, Station 19+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
792	Storm Sewer Main: PLAN: STORM-12, Station 20+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
793	Storm Sewer Main: PLAN: STORM-12, Station 20+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
794	Storm Sewer Main: PLAN: STORM-12, Station 21+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

794: The Contractor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000075
Report Date: 08/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
795	789	08/13/21	18		Class 1	7.1	141.9	7.4	135.0	145.0	8	95	95	-2 / 2	Pass
796		08/13/21	18		Class 1	7.1	141.9	8.3	132.6	143.6	8	93	95	-2 / 2	Fail
797	796	08/13/21	18		Class 1	7.1	141.9	6.0	135.5	143.6	8	95	95	-2 / 2	Pass
798		08/13/21	18		Class 1	7.1	141.9	8.5	129.6	140.6	8	91	95	-2 / 2	Fail
799	798	08/13/21	18		Class 1	7.1	141.9	7.3	134.9	144.7	8	95	95	-2 / 2	Pass
800		08/13/21	18		Class 1	7.1	141.9	5.5	136.0	143.5	8	96	95	-2 / 2	Pass
801		08/13/21	02	ASTM D698	A-6	15.2	109.4	17.0	108.8	127.3	8	99	95	0 / 4	Pass
802		08/13/21	12	ASTM D698	A-6	14.1	116.4	15.6	112.1	129.6	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
795	Box Culvert: Walls: Conspan under Belford Avenue, east wall exterior, 100' south of north side	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
796	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 50' south of north side	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
797	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 50' south of north side	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
798	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 100' south of north side	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
799	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 100' south of north side	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
800	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 50' north of south side	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
801	Storm Sewer Main: PLAN: STORM-12, Station 21+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
802	Storm Sewer Main: PLAN: STORM-12, Station 22+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Fail / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000075
Report Date: 08/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
803		08/13/21	12	ASTM D698	A-6	14.1	116.4	16.5	110.9	129.2	8	95	95	0 / 4	Pass
804		08/13/21	12	ASTM D698	A-6	14.1	116.4	15.8	113.2	131.1	8	97	95	0 / 4	Pass
805		08/13/21	12	ASTM D698	A-6	14.1	116.4	16.1	111.0	128.9	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
803	Storm Sewer Main: PLAN: STORM-12, Station 22+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
804	Storm Sewer Main: PLAN: STORM-12, Station 23+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
805	Storm Sewer Main: PLAN: STORM-12, Station 22+25	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

805: The Contractor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000076
Report Date: 08/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
806		08/17/21	18		Class 1	7.1	141.9	5.0	129.1	135.6	8	91	95	-2 / 2	Fail
807	806	08/17/21	18		Class 1	7.1	141.9	6.1	135.3	143.6	8	95	95	-2 / 2	Pass
808		08/17/21	18		Class 1	7.1	141.9	5.3	134.9	142.0	8	95	95	-2 / 2	Pass
809		08/17/21	18		Class 1	7.1	141.9	6.9	131.7	140.8	8	93	95	-2 / 2	Fail
810	809	08/17/21	18		Class 1	7.1	141.9	5.6	136.0	143.6	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
806	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 50' south of north side	3.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
807	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 50' south of north side	3.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
808	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 100' south of north side	3.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
809	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 50' north of south side	3.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
810	Box Culvert: Walls: Conspan under Belford Avenue, west wall exterior, 50' north of south side	3.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Fail: Density Fail / Moisture Fail

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

810: The Contractor, Iron Woman, utilized one excavator and one loader to place fill material. One water truck was used to add moisture to the fill material. One vibrating sheepsfoot was used to apply compactive effort to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000077
Report Date: 08/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
811		08/18/21	06	ASTM D698	A-7-6	12.7	111.0	15.1	110.0	126.6	8	99	95	0 / 4	Pass
812		08/18/21	02	ASTM D698	A-6	15.2	109.4	16.2	104.0	120.8	8	95	95	0 / 4	Pass
813		08/18/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	106.0	119.7	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
811	Street Subgrade: South Peoria Street, northbound, deceleration lane 100' south of Belford Avenue	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
812	Street Subgrade: South Peoria Street, northbound, deceleration lane 200' south of Belford Avenue	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
813	Street Subgrade: South Peoria Street, northbound, deceleration lane 300' south of Belford Avenue	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

813: The Contractor, Schmidt Construction Company, utilized one vibrating steel drum and one scraper to apply compactive effort to the fill. One water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000078
Report Date: 08/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
814		08/20/21	19	ASTM D1557	A-2-4	9.1	125.1	8.0	123.6	133.5	8	99	95	-2 / 2	Pass
815		08/20/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	116.0	129.2	8	99	95	-2 / 2	Pass
816		08/20/21	19	ASTM D1557	A-2-4	9.1	125.1	10.1	120.3	132.5	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
814	Outlet: PLAN: STORM-13 & DETENTION POND, Outlet Structure, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
815	Outlet: PLAN: STORM-13 & DETENTION POND, Outlet Structure, west side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
816	Outlet: PLAN: STORM-13 & DETENTION POND, Outlet Structure, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

816: The Contractor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000079
Report Date: 08/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
817		08/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	111.9	124.4	8	96	95	-2 / 2	Pass
818		08/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	116.9	130.8	8	100	95	-2 / 2	Pass
819		08/23/21	19	ASTM D1557	A-2-4	9.1	125.1	9.1	118.8	129.6	8	95	95	-2 / 2	Pass
820		08/23/21	19	ASTM D1557	A-2-4	9.1	125.1	10.0	122.0	134.2	8	98	95	-2 / 2	Pass
821		08/23/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	109.0	125.3	8	98	95	0 / 4	Pass
822		08/23/21	06	ASTM D698	A-7-6	12.7	111.0	13.1	110.2	124.6	8	99	95	0 / 4	Pass
823		08/23/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	108.5	125.3	8	98	95	0 / 4	Pass
824		08/23/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	111.1	126.8	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
817	Inlet: PLAN: STORM-12, Inlet 1-5, north side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
818	Inlet: PLAN: STORM-12, Inlet 1-5, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
819	Inlet: PLAN: STORM-12, Inlet 1-5, west side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
820	Inlet: PLAN: STORM-12, Inlet 1-5, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
821	Forebay: PLAN: STORM-12, Forebay B, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
822	Forebay: PLAN: STORM-12, Forebay B, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
823	Forebay: PLAN: STORM-12, Forebay A, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
824	Forebay: PLAN: STORM-12, Forebay A, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000079
Report Date: 08/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
825		08/23/21	06	ASTM D698	A-7-6	12.7	111.0	13.6	109.9	124.8	8	99	95	0 / 4	Pass
826		08/23/21	06	ASTM D698	A-7-6	12.7	111.0	14.0	108.1	123.2	8	97	95	0 / 4	Pass
827		08/23/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	111.7	126.6	8	96	95	-2 / 2	Pass
828		08/23/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	113.5	127.2	8	97	95	-2 / 2	Pass
829		08/23/21	14	ASTM D1557	A-2-4	13.0	116.6	13.4	112.2	127.2	8	96	95	-2 / 2	Pass
830		08/23/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	112.9	127.4	8	97	95	-2 / 2	Pass
831		08/23/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	115.4	129.5	8	99	95	-2 / 2	Pass
832		08/23/21	19	ASTM D1557	A-2-4	9.1	125.1	8.8	121.5	132.2	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
825	Inlet: PLAN: STORM-12, Inlet 2-9, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
826	Inlet: PLAN: STORM-12, Inlet 2-9, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
827	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-9, south side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
828	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-9, north side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
829	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-9, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
830	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-9, west side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
831	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-9, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
832	Inlet: PLAN: STORM-12, Inlet 2-5, north side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000079
Report Date: 08/26/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
833		08/23/21	19	ASTM D1557	A-2-4	9.1	125.1	7.7	119.4	128.6	8	95	95	-2 / 2	Pass
834		08/23/21	19	ASTM D1557	A-2-4	9.1	125.1	7.3	120.1	128.9	8	96	95	-2 / 2	Pass
835		08/23/21	19	ASTM D1557	A-2-4	9.1	125.1	8.2	119.0	128.8	8	95	95	-2 / 2	Pass
836		08/23/21	19	ASTM D1557	A-2-4	9.1	125.1	9.0	120.0	130.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
833	Inlet: PLAN: STORM-12, Inlet 2-5, east side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
834	Inlet: PLAN: STORM-12, Inlet 2-5, west side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
835	Inlet: PLAN: STORM-12, Inlet 2-5, south side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
836	Inlet: PLAN: STORM-12, Inlet 2-5, north side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

836: The Contractor, Iron Woman, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000080
Report Date: 09/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
837		08/24/21	20		ABC-RC	12.0	116.0	10.5	114.1	126.1	8	98	95	-2 / 2	Pass
838		08/24/21	20		ABC-RC	12.0	116.0	10.0	114.5	126.0	8	99	95	-2 / 2	Pass
839		08/24/21	20		ABC-RC	12.0	116.0	10.6	113.0	125.0	8	97	95	-2 / 2	Pass
840		08/24/21	20		ABC-RC	12.0	116.0	10.7	116.4	128.9	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
837	Street Base Course: South Peoria Street, northbound, deceleration lane, 100' south of Belford Avenue	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
838	Street Base Course: South Peoria Street, northbound, deceleration lane, 200' south of Belford Avenue	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
839	Street Base Course: South Peoria Street, northbound, deceleration lane, 300' south of Belford Avenue	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
840	Street Base Course: South Peoria Street, northbound, deceleration lane, 400' south of Belford Avenue	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

840: The Contractor, Schmidt Construction, prepared the base course prior to our arrival

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000081
Report Date: 09/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
841		08/26/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	114.6	129.6	8	98	95	-2 / 2	Pass
842		08/26/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	111.8	128.0	8	96	95	-2 / 2	Pass
843		08/26/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	113.1	128.9	8	97	95	-2 / 2	Pass
844		08/26/21	12	ASTM D698	A-6	14.1	116.4	15.1	110.9	127.6	8	95	95	0 / 4	Pass
845		08/26/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	112.2	125.9	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
841	Storm Sewer Main: PLAN: STORM-12, Station 21+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
842	Storm Sewer Main: PLAN: STORM-12, Station 22+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
843	Storm Sewer Main: PLAN: STORM-12, Station 22+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
844	Storm Sewer Main: PLAN: STORM-12, Station 21+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
845	Storm Sewer Main: PLAN: STORM-12, Station 22+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

845: The Contractor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000082
Report Date: 09/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
846		08/27/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	112.8	125.8	8	97	95	-2 / 2	Pass
847		08/27/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	113.6	127.0	8	97	95	-2 / 2	Pass
848		08/27/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	115.9	129.6	8	99	95	-2 / 2	Pass
849		08/27/21	14	ASTM D1557	A-2-4	13.0	116.6	11.0	111.2	123.4	8	95	95	-2 / 2	Pass
850		08/27/21	14	ASTM D1557	A-2-4	13.0	116.6	12.3	114.2	128.2	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
846	Inlet: PLAN: STORM-6, Inlet 2-6, south side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
847	Inlet: PLAN: STORM-6, Inlet 2-6, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
848	Inlet: PLAN: STORM-6, Inlet 2-6, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
849	Inlet: PLAN: STORM-6, Inlet 2-6, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
850	Inlet: PLAN: STORM-6, Inlet 2-6, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

850: The Contractor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000083
Report Date: 09/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
851		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	110.9	126.5	8	95	95	-2 / 2	Pass
852		08/30/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	109.8	125.7	8	99	95	0 / 4	Pass
853		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	13.4	113.2	128.4	8	97	95	-2 / 2	Pass
854		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.6	127.0	8	96	95	-2 / 2	Pass
855		08/30/21	06	ASTM D698	A-7-6	12.7	111.0	14.0	110.0	125.4	8	99	95	0 / 4	Pass
856		08/30/21	12	ASTM D698	A-6	14.1	116.4	15.7	113.1	130.9	8	97	95	0 / 4	Pass
857		08/30/21	12	ASTM D698	A-6	14.1	116.4	15.5	111.8	129.1	8	96	95	0 / 4	Pass
858		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	112.6	128.4	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
851	Storm Sewer Main: PLAN: STORM-6, Mainline under Belford Avenue, Station 12+00	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
852	Storm Sewer Main: PLAN: STORM-6, Mainline under Belford Avenue, Station 12+25	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
853	Storm Sewer Main: PLAN: STORM-6, Mainline under Belford Avenue, Station 12+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
854	Storm Sewer Main: PLAN: STORM-6, Mainline under Belford Avenue, Station 12+25	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
855	Storm Sewer Main: PLAN: STORM-6, Mainline under Belford Avenue, Station 12+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
856	Storm Sewer Manhole: PLAN: STORM-12A, STMH 7-12, north side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
857	Storm Sewer Manhole: PLAN: STORM-12A, STMH 7-12, east side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
858	Storm Sewer Manhole: PLAN: STORM-12A, STMH 7-12, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000083
Report Date: 09/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
859		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	114.2	129.6	8	98	95	-2 / 2	Pass
860		08/30/21	06	ASTM D698	A-7-6	12.7	111.0	15.6	109.9	127.0	8	99	95	0 / 4	Pass
861		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.8	111.1	127.5	8	95	95	-2 / 2	Pass
862		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	11.0	112.6	125.0	8	97	95	-2 / 2	Pass
863		08/30/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	110.2	124.4	8	99	95	0 / 4	Pass
864		08/30/21	06	ASTM D698	A-7-6	12.7	111.0	13.9	108.9	124.0	8	98	95	0 / 4	Pass
865		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	112.0	126.0	8	96	95	-2 / 2	Pass
866		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	111.5	126.2	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
859	Storm Sewer Manhole: PLAN: STORM-12A, STMH 7-12, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
860	Storm Sewer Manhole: PLAN: STORM-12A, STMH 7-12, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
861	Storm Sewer Manhole: PLAN: STORM-12A, STMH 7-12, east side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
862	Storm Sewer Main: PLAN: STORM-6, Station 11+50	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
863	Storm Sewer Main: PLAN: STORM-6, Station 11+00	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
864	Storm Sewer Main: PLAN: STORM-6, Station 10+75	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
865	Storm Sewer Main: PLAN: STORM-6, Station 11+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
866	Storm Sewer Main: PLAN: STORM-6, Station 11+00	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000083
Report Date: 09/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
867		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	110.9	126.8	8	95	95	-2 / 2	Pass
868		08/30/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	109.5	125.9	8	99	95	0 / 4	Pass
869		08/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	111.0	127.1	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
867	Storm Sewer Main: PLAN: STORM-6, Station 10+75	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
868	Storm Sewer Main: PLAN: STORM-6, Station 11+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
869	Storm Sewer Main: PLAN: STORM-6, Station 11+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

869: The Contractor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000084
Report Date: 09/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
870		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	14.6	112.0	128.4	8	96	95	-2 / 2	Pass
871		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	111.8	127.8	8	96	95	-2 / 2	Pass
872		08/31/21	06	ASTM D698	A-7-6	12.7	111.0	15.9	108.5	125.8	8	98	95	0 / 4	Pass
873		08/31/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	110.0	126.5	8	99	95	0 / 4	Pass
874		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	112.7	127.5	8	97	95	-2 / 2	Pass
875		08/31/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	109.5	125.9	8	99	95	0 / 4	Pass
876		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.1	126.4	8	95	95	-2 / 2	Pass
877		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	112.0	127.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
870	Storm Sewer Main: PLAN: STORM-12, Station 23+50	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
871	Storm Sewer Main: PLAN: STORM-12, Station 24+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
872	Storm Sewer Main: PLAN: STORM-12, Station 24+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
873	Storm Sewer Main: PLAN: STORM-12, Station 23+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
874	Storm Sewer Manhole: PLAN: STORM-12, STMH 5-12, north side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
875	Storm Sewer Manhole: PLAN: STORM-12, STMH 5-12, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
876	Storm Sewer Manhole: PLAN: STORM-12, STMH 5-12, west side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
877	Storm Sewer Manhole: PLAN: STORM-12, STMH 5-12, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000084
Report Date: 09/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
878		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	12.9	113.2	127.8	8	97	95	-2 / 2	Pass
879		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	112.9	127.8	8	97	95	-2 / 2	Pass
880		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	114.4	128.0	8	98	95	-2 / 2	Pass
881		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	113.9	127.7	8	98	95	-2 / 2	Pass
882		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	115.0	128.5	8	99	95	-2 / 2	Pass
883		08/31/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	109.9	126.9	8	99	95	0 / 4	Pass
884		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	111.6	127.6	8	96	95	-2 / 2	Pass
885		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	15.0	110.3	126.8	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
878	Storm Sewer Manhole: PLAN: STORM-12, STMH 4-12, north side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
879	Storm Sewer Manhole: PLAN: STORM-12, STMH 4-12, east side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
880	Storm Sewer Manhole: PLAN: STORM-12, STMH 4-12, west side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
881	Storm Sewer Manhole: PLAN: STORM-12, STMH 4-12, south side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
882	Storm Sewer Manhole: PLAN: STORM-12, STMH 4-12, north side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
883	Storm Sewer Manhole: PLAN: STORM-12, STMH 6-12, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
884	Storm Sewer Manhole: PLAN: STORM-12, STMH 6-12, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
885	Storm Sewer Manhole: PLAN: STORM-12, STMH 6-12, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000084
Report Date: 09/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
886		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	112.1	126.3	8	96	95	-2 / 2	Pass
887		08/31/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	109.1	124.9	8	98	95	0 / 4	Pass
888		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	111.7	127.2	8	96	95	-2 / 2	Pass
889		08/31/21	06	ASTM D698	A-7-6	12.7	111.0	14.7	110.5	126.7	8	100	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
886	Storm Sewer Manhole: PLAN: STORM-12, STMH 6-12, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
887	Storm Sewer Manhole: PLAN: STORM-12, STMH 6-12, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
888	Storm Sewer Manhole: PLAN: STORM-12, STMH 6-12, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
889	Storm Sewer Manhole: PLAN: STORM-12, STMH 6-12, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

889: The Contractor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000085
Report Date: 09/15/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
890		08/31/21	14	ASTM D1557	A-2-4	13.0	116.6	11.1	115.9	128.8	8	99	95	-2 / 2	Pass
891		08/31/21	06	ASTM D698	A-7-6	12.7	111.0	14.9	110.4	126.8	8	99	95	0 / 4	Pass
892		08/31/21	06	ASTM D698	A-7-6	12.7	111.0	14.3	108.6	124.1	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
890	Street Overexcavation: First Street, 150' south of Box Culvert	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
891	Street Overexcavation: First Street, 50' south of Box Culvert	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
892	Street Overexcavation: First Street, 20' south of Box Culvert	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

892: The Contractor, Bemas Construction Incorporated, utilized seven scrapers to place and apply compactive effort to the fill. One water wagon was used to add moisture to the fill material. Two discs were used to process the fill material. Organic material was observed in the fill. We notified the Contractor of our observations.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000086
Report Date: 09/15/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
893		09/02/21	06	ASTM D698	A-7-6	12.7	111.0	15.8	109.3	126.6	8	98	95	0 / 4	Pass
894		09/02/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	108.2	125.0	8	97	95	0 / 4	Pass
895		09/02/21	06	ASTM D698	A-7-6	12.7	111.0	14.4	106.7	122.1	8	96	95	0 / 4	Pass
896		09/02/21	06	ASTM D698	A-7-6	12.7	111.0	15.1	107.2	123.4	8	97	95	0 / 4	Pass
897		09/02/21	06	ASTM D698	A-7-6	12.7	111.0	15.3	109.6	126.4	8	99	95	0 / 4	Pass
898		09/02/21	06	ASTM D698	A-7-6	12.7	111.0	14.7	107.5	123.3	8	97	95	0 / 4	Pass
899		09/02/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	106.8	122.8	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
893	Water Main: PLAN: 12" WATERLINE, Station 21+00	17.0	BSG	Troxler / 3430 / 28361 /	Cunningham, Travis
894	Water Main: PLAN: 12" WATERLINE, Station 21+00	16.0	BSG	Troxler / 3430 / 28361 /	Cunningham, Travis
895	Water Main: PLAN: 12" WATERLINE, Station 21+00	15.0	BSG	Troxler / 3430 / 28361 /	Cunningham, Travis
896	Water Main: PLAN: 12" WATERLINE, Station 20+75	14.0	BSG	Troxler / 3430 / 28361 /	Cunningham, Travis
897	Water Main: PLAN: 12" WATERLINE, Station 20+75	13.0	BSG	Troxler / 3430 / 28361 /	Cunningham, Travis
898	Water Main: PLAN: 12" WATERLINE, Station 21+00	12.0	BSG	Troxler / 3430 / 28361 /	Cunningham, Travis
899	Water Main: PLAN: 12" WATERLINE, Station 20+75	11.0	BSG	Troxler / 3430 / 28361 /	Cunningham, Travis

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

899: The Contractor, Iron Woman, utilized one excavator with a compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000087
Report Date: 09/15/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
900		09/08/21	14	ASTM D1557	A-2-4	13.0	116.6	14.7	114.1	130.9	8	98	95	-2 / 2	Pass
901		09/08/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	115.2	131.7	8	99	95	-2 / 2	Pass
902		09/08/21	12	ASTM D698	A-6	14.1	116.4	15.2	113.8	131.1	8	98	95	0 / 4	Pass
903		09/08/21	12	ASTM D698	A-6	14.1	116.4	16.2	112.3	130.5	8	96	95	0 / 4	Pass
904		09/08/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	111.8	127.8	8	96	95	-2 / 2	Pass
905		09/08/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	112.9	128.5	8	97	95	-2 / 2	Pass
906		09/08/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	114.4	130.4	8	98	95	-2 / 2	Pass
907		09/08/21	06	ASTM D698	A-7-6	12.7	111.0	15.7	109.5	126.7	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
900	Storm Sewer Manhole: PLAN: STORM-12, STMH 1-12, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
901	Storm Sewer Manhole: PLAN: STORM-12, STMH 1-12, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
902	Storm Sewer Manhole: PLAN: STORM-12, STMH 1-12, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
903	Storm Sewer Manhole: PLAN: STORM-12, STMH 1-12, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
904	Storm Sewer Manhole: PLAN: STORM-12, STMH 1-12, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
905	Storm Sewer Manhole: PLAN: STORM-12, STMH 1-12, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
906	Storm Sewer Manhole: PLAN: STORM-12, STMH 1-12, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
907	Storm Sewer Manhole: PLAN: STORM-12, STMH 2-12, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000087
Report Date: 09/15/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
908		09/08/21	06	ASTM D698	A-7-6	12.7	111.0	13.0	105.9	119.7	8	95	95	0 / 4	Pass
909		09/08/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	110.1	126.6	8	99	95	0 / 4	Pass
910		09/08/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	113.3	129.5	8	97	95	-2 / 2	Pass
911		09/08/21	12	ASTM D698	A-6	14.1	116.4	15.1	111.1	127.9	8	95	95	0 / 4	Pass
912		09/08/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	112.0	127.2	8	96	95	-2 / 2	Pass
913		09/08/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	115.0	128.9	8	99	95	-2 / 2	Pass
914		09/08/21	06	ASTM D698	A-7-6	12.7	111.0	15.9	107.5	124.6	8	97	95	0 / 4	Pass
915		09/08/21	06	ASTM D698	A-7-6	12.7	111.0	16.6	106.1	123.7	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
908	Storm Sewer Manhole: PLAN: STORM-12, STMH 2-12, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
909	Storm Sewer Manhole: PLAN: STORM-12, STMH 2-12, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
910	Storm Sewer Manhole: PLAN: STORM-12, STMH 2-12, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
911	Storm Sewer Manhole: PLAN: STORM-12, STMH 2-12, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
912	Storm Sewer Manhole: PLAN: STORM-12, STMH 2-12, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
913	Storm Sewer Manhole: PLAN: STORM-12, STMH 2-12, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
914	Inlet: PLAN: STORM-6, STMH 1-6	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
915	Inlet: PLAN: STORM-12, STMH 8-12	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

915: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000088
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
916		09/09/21	12	ASTM D698	A-6	14.1	116.4	15.5	111.8	129.1	8	96	95	0 / 4	Pass
917		09/09/21	06	ASTM D698	A-7-6	12.7	111.0	16.4	108.6	126.4	8	98	95	0 / 4	Pass
918		09/09/21	19	ASTM D1557	A-2-4	9.1	125.1	9.5	119.8	131.2	8	96	95	-2 / 2	Pass
919		09/09/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	115.2	128.1	8	99	95	-2 / 2	Pass
920		09/09/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	116.1	129.5	8	100	95	-2 / 2	Pass
921		09/09/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	110.1	126.1	8	99	95	0 / 4	Pass
922		09/09/21	09	ASTM D698	A-6	18.5	106.9	19.6	104.1	124.5	8	97	95	0 / 4	Pass
923		09/09/21	16	ASTM D698	A-6	17.2	108.6	21.0	103.5	125.2	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
916	Inlet: PLAN: STORM-4, Inlet 2-4	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
917	Inlet: PLAN: STORM-4, Inlet 1-4	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
918	Storm Sewer Manhole: PLAN: STORM-12, STMH 14-12, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
919	Storm Sewer Manhole: PLAN: STORM-12, STMH 14-12, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
920	Storm Sewer Manhole: PLAN: STORM-12, STMH 14-12, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
921	Street Subgrade: Belford Avenue, eastbound, Station 12+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
922	Street Subgrade: Belford Avenue, eastbound, Station 11+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
923	Street Subgrade: South Peoria Street, northbound, deceleration lane, 75' south of Belford Avenue	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000088
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. **920:** The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck. **923:** The Contractor, Schmidt Construction, prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000089
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
924		09/13/21	16	ASTM D698	A-6	17.2	108.6	18.0	106.4	125.6	8	98	95	0 / 4	Pass
925		09/13/21	16	ASTM D698	A-6	17.2	108.6	18.2	107.2	126.7	8	99	95	0 / 4	Pass
926		09/13/21	18		Class 1	7.1	141.9	8.6	134.9	146.5	8	95	95	-2 / 2	Pass
927		09/13/21	18		Class 1	7.1	141.9	8.3	135.5	146.7	8	95	95	-2 / 2	Pass
928		09/13/21	18		Class 1	7.1	141.9	8.0	136.1	147.0	8	96	95	-2 / 2	Pass
929		09/13/21	21	ASTM D1557	Class 1	5.9	140.6	6.7	135.4	144.5	8	96	95	-2 / 2	Pass
930		09/13/21	21	ASTM D1557	Class 1	5.9	140.6	7.8	136.3	146.9	8	97	95	-2 / 2	Pass
931		09/13/21	21	ASTM D1557	Class 1	5.9	140.6	7.5	135.1	145.2	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
924	Street Subgrade: Belford Avenue, westbound, Station 11+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
925	Street Subgrade: Belford Avenue, westbound, Station 12+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
926	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
927	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
928	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 125' south of north end	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
929	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
930	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
931	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 125' south of north end	16.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

931: The Contractor, Iron Woman, utilized two excavators and one loader to place fill material. Two vibrating steel drums were used to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000090
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
932		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	5.3	136.8	144.1	8	97	95	-2 / 2	Pass
933		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.5	135.1	143.9	8	96	95	-2 / 2	Pass
934		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.3	136.0	144.6	8	97	95	-2 / 2	Pass
935		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	5.1	135.8	142.7	8	97	95	-2 / 2	Pass
936		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.1	134.9	143.1	8	96	95	-2 / 2	Pass
937		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	5.5	135.5	143.0	8	96	95	-2 / 2	Pass
938		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	7.2	136.3	146.1	8	97	95	-2 / 2	Pass
939		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.3	135.4	143.9	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
932	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	15.0	BSG	Troxler / 3430 / 32100 /	Nicely, Sean
933	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	15.0	BSG	Troxler / 3430 / 32100 /	Nicely, Sean
934	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 125' south of north end	15.0	BSG	Troxler / 3430 / 32100 /	Nicely, Sean
935	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	15.0	BSG	Troxler / 3430 / 32100 /	Nicely, Sean
936	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	15.0	BSG	Troxler / 3430 / 32100 /	Nicely, Sean
937	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 125' south of north end	15.0	BSG	Troxler / 3430 / 32100 /	Nicely, Sean
938	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
939	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000090
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
940		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	7.0	134.9	144.3	8	96	95	-2 / 2	Pass
941		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.9	135.1	144.4	8	96	95	-2 / 2	Pass
942		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	5.1	137.1	144.1	8	98	95	-2 / 2	Pass
943		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	5.3	136.6	143.8	8	97	95	-2 / 2	Pass
944		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	7.0	134.8	144.2	8	96	95	-2 / 2	Pass
945		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.8	135.9	145.1	8	97	95	-2 / 2	Pass
946		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	5.6	136.0	143.6	8	97	95	-2 / 2	Pass
947		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.2	136.9	145.4	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
940	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 125' south of north end	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
941	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
942	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
943	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 125' south of north end	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
944	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
945	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
946	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 125' south of north end	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
947	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000090
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
948		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	7.1	134.8	144.4	8	96	95	-2 / 2	Pass
949		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.7	135.7	144.8	8	97	95	-2 / 2	Pass
950		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	7.1	136.7	146.4	8	97	95	-2 / 2	Pass
951		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	7.5	135.3	145.4	8	96	95	-2 / 2	Pass
952		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.2	136.0	144.4	8	97	95	-2 / 2	Pass
953		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	7.2	135.9	145.7	8	97	95	-2 / 2	Pass
954		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	6.6	135.0	143.9	8	96	95	-2 / 2	Pass
955		09/14/21	21	ASTM D1557	Class 1	5.9	140.6	5.5	136.3	143.8	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
948	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
949	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 125' south of north end	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
950	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
951	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
952	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 125' south of north end	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
953	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
954	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
955	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 125' south of north end	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

955: The Contractor, Iron Woman, utilized two excavators and one loader to place fill material. One water truck was used to add moisture to the fill. Two vibrating steel drums were used to apply compactive effort to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000091
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
956		09/15/21	19	ASTM D1557	A-2-4	9.1	125.1	7.7	123.5	133.0	8	99	95	-2 / 2	Pass
957		09/15/21	19	ASTM D1557	A-2-4	9.1	125.1	7.4	124.3	133.5	8	99	95	-2 / 2	Pass
958		09/15/21	19	ASTM D1557	A-2-4	9.1	125.1	10.4	123.6	136.5	8	99	95	-2 / 2	Pass
959		09/15/21	19	ASTM D1557	A-2-4	9.1	125.1	8.9	125.4	136.6	8	100	95	-2 / 2	Pass
960		09/15/21	19	ASTM D1557	A-2-4	9.1	125.1	9.0	124.3	135.5	8	99	95	-2 / 2	Pass
961		09/15/21	19	ASTM D1557	A-2-4	9.1	125.1	8.8	119.5	130.0	8	96	95	-2 / 2	Pass
962		09/15/21	19	ASTM D1557	A-2-4	9.1	125.1	8.1	125.0	135.1	8	100	95	-2 / 2	Pass
963		09/15/21	19	ASTM D1557	A-2-4	9.1	125.1	8.2	125.1	135.4	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
956	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	6.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
957	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' east of wall	6.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
958	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	5.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
959	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	5.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
960	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' west of wall	5.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
961	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' west of wall	5.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
962	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
963	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' east of wall	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

963: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000091
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
964		09/15/21	06	ASTM D698	A-7-6	12.7	111.0	14.3	106.3	121.5	8	96	95	0 / 4	Pass
965		09/15/21	06	ASTM D698	A-7-6	12.7	111.0	13.5	107.9	122.5	8	97	95	0 / 4	Pass
966		09/15/21	06	ASTM D698	A-7-6	12.7	111.0	13.9	107.1	122.0	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
964	Curb and Gutter: South Peoria Street, northbound, 20' south of Belford Avenue, eastbound	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
965	Curb and Gutter: South Peoria Street, northbound, and Belford Avenue, eastbound, southeast pork chop	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
966	Curb and Gutter: South Peoria Street, northbound, and Belford Avenue, eastbound, northeast pork chop	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

966: The Contractor, Schmidt Construction, prepared the subgrade prior to our arrival

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000092
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
967		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	10.4	125.2	138.2	8	100	95	-2 / 2	Pass
968		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	7.4	124.6	133.8	8	100	95	-2 / 2	Pass
969		09/16/21	18		Class 1	7.1	141.9	6.6	136.4	145.4	8	96	95	-2 / 2	Pass
970		09/16/21	18		Class 1	7.1	141.9	7.7	135.2	145.6	8	95	95	-2 / 2	Pass
971		09/16/21	18		Class 1	7.1	141.9	6.1	136.2	144.5	8	96	95	-2 / 2	Pass
972		09/16/21	14	ASTM D1557	A-2-4	13.0	116.6	14.8	111.9	128.5	8	96	95	-2 / 2	Pass
973		09/16/21	06	ASTM D698	A-7-6	12.7	111.0	14.9	109.5	125.8	8	99	95	0 / 4	Pass
974		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	9.5	125.6	137.5	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
967	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' west of wall	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
968	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' west of wall	4.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
969	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
970	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' north of south end	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
971	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
972	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' west of wall	3.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
973	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' west of wall	3.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
974	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	3.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000092
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
975		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	9.6	125.0	137.0	8	100	95	-2 / 2	Pass
976		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	7.2	124.7	133.7	8	100	95	-2 / 2	Pass
977		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	9.2	120.0	131.0	8	96	95	-2 / 2	Pass
978		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	9.7	119.8	131.4	8	96	95	-2 / 2	Pass
979		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	8.1	119.0	128.6	8	95	95	-2 / 2	Pass
980		09/16/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	116.8	130.9	8	100	95	-2 / 2	Pass
981		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	9.4	124.1	135.8	8	99	95	-2 / 2	Pass
982		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	8.4	120.9	131.1	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
975	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' east of wall	3.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
976	Storm Sewer Manhole: PLAN: STORM-5B, STMH 11-12, north side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
977	Storm Sewer Manhole: PLAN: STORM-5B, STMH 11-12, east side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
978	Storm Sewer Manhole: PLAN: STORM-5B, STMH 11-12, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
979	Storm Sewer Manhole: PLAN: STORM-5B, STMH 11-12, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
980	Storm Sewer Manhole: PLAN: STORM-5B, STMH 11-12, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
981	Storm Sewer Manhole: PLAN: STORM-5B, STMH 11-12, east side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
982	Storm Sewer Manhole: PLAN: STORM-5B, STMH 10-12, north side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000092
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
983		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	8.1	120.2	129.9	8	96	95	-2 / 2	Pass
984		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	7.6	121.3	130.5	8	97	95	-2 / 2	Pass
985		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	8.6	119.6	129.9	8	96	95	-2 / 2	Pass
986		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	9.0	120.6	131.5	8	96	95	-2 / 2	Pass
987		09/16/21	19	ASTM D1557	A-2-4	9.1	125.1	9.6	118.9	130.3	8	95	95	-2 / 2	Pass
988		09/16/21	02	ASTM D698	A-6	15.2	109.4	16.5	105.1	122.4	8	96	95	0 / 4	Pass
989		09/16/21	16	ASTM D698	A-6	17.2	108.6	18.6	106.7	126.5	8	98	95	0 / 4	Pass
990		09/16/21	18		Class 1	7.1	141.9	6.8	134.9	144.1	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
983	Storm Sewer Manhole: PLAN: STORM-5B, STMH 10-12, east side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
984	Storm Sewer Manhole: PLAN: STORM-5B, STMH 10-12, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
985	Storm Sewer Manhole: PLAN: STORM-5B, STMH 10-12, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
986	Storm Sewer Manhole: PLAN: STORM-5B, STMH 10-12, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
987	Storm Sewer Manhole: PLAN: STORM-5B, STMH 10-12, east side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
988	Street Subgrade: Belford Avenue, eastbound, Station 13+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
989	Street Subgrade: Belford Avenue, eastbound, Station 15+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
990	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000092
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
991		09/16/21	18		Class 1	7.1	141.9	6.5	135.3	144.1	8	95	95	-2 / 2	Pass
992		09/16/21	18		Class 1	7.1	141.9	6.0	136.9	145.1	8	96	95	-2 / 2	Pass
993		09/16/21	12	ASTM D698	A-6	14.1	116.4	15.9	111.9	129.7	8	96	95	0 / 4	Pass
994		09/16/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	116.2	131.3	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
991	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
992	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
993	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' west of wall	2.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
994	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' west of wall	2.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

994: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

The Contractor, Iron Woman, utilized two excavators to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material. Two vibrating steel drums were used to apply compactive effort to the fill material

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000093
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
995		09/17/21	18		Class 1	7.1	141.9	6.2	135.1	143.5	8	95	95	-2 / 2	Pass
996		09/17/21	18		Class 1	7.1	141.9	5.9	136.1	144.1	8	96	95	-2 / 2	Pass
997		09/17/21	18		Class 1	7.1	141.9	5.6	136.5	144.1	8	96	95	-2 / 2	Pass
998		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	10.8	118.9	131.7	8	95	95	-2 / 2	Pass
999		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	11.1	121.0	134.4	8	97	95	-2 / 2	Pass
1000		09/17/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	116.7	130.0	8	100	95	-2 / 2	Pass
1001		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	9.7	121.0	132.7	8	97	95	-2 / 2	Pass
1002		09/17/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	116.3	130.0	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
995	Street Base Course: Belford Avenue, eastbound, Station 13+00	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
996	Street Base Course: Belford Avenue, eastbound, Station 14+00	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
997	Street Base Course: Belford Avenue, eastbound, Station 15+50	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
998	Storm Sewer Manhole: PLAN: STORM-12, STMH 9-12, north side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
999	Storm Sewer Manhole: PLAN: STORM-12, STMH 9-12, east side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1000	Storm Sewer Manhole: PLAN: STORM-12, STMH 9-12, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1001	Storm Sewer Manhole: PLAN: STORM-12, STMH 9-12, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1002	Storm Sewer Manhole: PLAN: STORM-12, STMH 9-12, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000093
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1003		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	10.8	119.0	131.9	8	95	95	-2 / 2	Pass
1004		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	10.4	121.2	133.8	8	97	95	-2 / 2	Pass
1005		09/17/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	114.9	130.2	8	99	95	-2 / 2	Pass
1006		09/17/21	14	ASTM D1557	A-2-4	13.0	116.6	14.6	112.3	128.7	8	96	95	-2 / 2	Pass
1007		09/17/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	113.0	126.4	8	97	95	-2 / 2	Pass
1008		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	9.8	120.6	132.4	8	96	95	-2 / 2	Pass
1009		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	10.3	119.0	131.3	8	95	95	-2 / 2	Pass
1010		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	9.9	118.7	130.5	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1003	Storm Sewer Manhole: PLAN: STORM-12, STMH 9-12, east side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1004	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	2.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
1005	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' east of wall	2.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
1006	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' west of wall	1.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
1007	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' west of wall	1.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
1008	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	1.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
1009	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' east of wall	1.0	BTW	Troxler / 3430 / 22405 /	Caperton, Mason
1010	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000093
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1011		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	10.0	119.3	131.2	8	95	95	-2 / 2	Pass
1012		09/17/21	18		Class 1	7.1	141.9	5.2	135.6	142.7	8	96	95	-2 / 2	Pass
1013		09/17/21	18		Class 1	7.1	141.9	5.8	134.8	142.6	8	95	95	-2 / 2	Pass
1014		09/17/21	18		Class 1	7.1	141.9	5.9	136.3	144.3	8	96	95	-2 / 2	Pass
1015		09/17/21	18		Class 1	7.1	141.9	6.0	135.1	143.2	8	95	95	-2 / 2	Pass
1016		09/17/21	18		Class 1	7.1	141.9	5.7	135.5	143.2	8	95	95	-2 / 2	Pass
1017		09/17/21	18		Class 1	7.1	141.9	5.5	136.0	143.5	8	96	95	-2 / 2	Pass
1018		09/17/21	18		Class 1	7.1	141.9	7.1	135.3	144.9	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1011	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' east of wall	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1012	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	10.0	BSG	Troxler / 3430 / 22405 /	Cunningham, Travis
1013	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	10.0	BSG	Troxler / 3430 / 22405 /	Cunningham, Travis
1014	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	10.0	BSG	Troxler / 3430 / 22405 /	Cunningham, Travis
1015	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	9.0	BSG	Troxler / 3430 / 22405 /	Cunningham, Travis
1016	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	9.0	BSG	Troxler / 3430 / 22405 /	Cunningham, Travis
1017	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	9.0	BSG	Troxler / 3430 / 22405 /	Cunningham, Travis
1018	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	10.0	BSG	Troxler / 3430 / 22405 /	Cunningham, Travis

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000093
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1019		09/17/21	18		Class 1	7.1	141.9	6.9	134.9	144.2	8	95	95	-2 / 2	Pass
1020		09/17/21	18		Class 1	7.1	141.9	6.5	136.2	145.1	8	96	95	-2 / 2	Pass
1021		09/17/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	116.9	131.9	8	100	95	-2 / 2	Pass
1022		09/17/21	14	ASTM D1557	A-2-4	13.0	116.6	11.7	116.0	129.6	8	99	95	-2 / 2	Pass
1023		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	10.2	120.8	133.1	8	97	95	-2 / 2	Pass
1024		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	9.6	121.3	132.9	8	97	95	-2 / 2	Pass
1025		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	10.0	122.1	134.3	8	98	95	-2 / 2	Pass
1026		09/17/21	19	ASTM D1557	A-2-4	9.1	125.1	11.0	119.3	132.4	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1019	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	10.0	BSG	Troxler / 3430 / 22405 /	Cunningham, Travis
1020	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	10.0	BSG	Troxler / 3430 / 22405 /	Cunningham, Travis
1021	Storm Sewer Manhole: PLAN: STORM-12, STMH 11A-12, north side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1022	Storm Sewer Manhole: PLAN: STORM-12, STMH 11A-12, east side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1023	Storm Sewer Manhole: PLAN: STORM-12, STMH 11A-12, west side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1024	Storm Sewer Manhole: PLAN: STORM-12, STMH 11A-12, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1025	Storm Sewer Manhole: PLAN: STORM-12, STMH 11A-12, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1026	Storm Sewer Manhole: PLAN: STORM-12, STMH 11A-12, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000093
Report Date: 09/27/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1027		09/17/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	116.1	130.6	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1027	Storm Sewer Manhole: PLAN: STORM-12, STMH 11A-12, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1027: The Contractor, Iron Woman, utilized two excavators with a wheell attachment to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000094
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1028		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	11.0	114.3	126.9	8	98	95	-2 / 2	Pass
1029		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	113.0	128.9	8	97	95	-2 / 2	Pass
1030		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	11.1	113.5	126.1	8	97	95	-2 / 2	Pass
1031		09/20/21	06	ASTM D698	A-7-6	12.7	111.0	16.5	108.5	126.4	8	98	95	0 / 4	Pass
1032		09/20/21	19	ASTM D1557	A-2-4	9.1	125.1	9.3	119.4	130.5	8	95	95	-2 / 2	Pass
1033		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	116.0	129.7	8	99	95	-2 / 2	Pass
1034		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	11.4	115.7	128.9	8	99	95	-2 / 2	Pass
1035		09/20/21	19	ASTM D1557	A-2-4	9.1	125.1	10.6	120.6	133.4	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1028	Storm Sewer Manhole: PLAN: STORM-12, STMH 13-12, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1029	Storm Sewer Manhole: PLAN: STORM-12, STMH 13-12, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1030	Storm Sewer Manhole: PLAN: STORM-12, STMH 12-12, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1031	Storm Sewer Manhole: PLAN: STORM-12, STMH 12-12, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1032	Street Subgrade: Belford Avenue, westbound, Station 13+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1033	Street Subgrade: Belford Avenue, westbound, Station 14+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1034	Street Subgrade: Belford Avenue, westbound, Station 15+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1035	Storm Sewer Manhole: PLAN: STORM-12, STMH 14-12, south side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000094
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1036		09/20/21	19	ASTM D1557	A-2-4	9.1	125.1	9.5	121.6	133.2	8	97	95	-2 / 2	Pass
1037		09/20/21	19	ASTM D1557	A-2-4	9.1	125.1	10.4	119.7	132.1	8	96	95	-2 / 2	Pass
1038		09/20/21	19	ASTM D1557	A-2-4	9.1	125.1	9.9	120.0	131.9	8	96	95	-2 / 2	Pass
1039		09/20/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	108.5	124.2	8	98	95	0 / 4	Pass
1040		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	114.2	127.8	8	98	95	-2 / 2	Pass
1041		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	112.8	126.4	8	97	95	-2 / 2	Pass
1042		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	113.1	127.8	8	97	95	-2 / 2	Pass
1043		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	111.3	126.4	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1036	Storm Sewer Manhole: PLAN: STORM-12, STMH 14-12, north side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1037	Storm Sewer Manhole: PLAN: STORM-12, STMH 14-12, east side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1038	Storm Sewer Manhole: PLAN: STORM-12, STMH 14-12, west side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1039	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-12, north side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1040	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-12, east side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1041	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-12, west side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1042	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-12, south side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1043	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-12, north side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000094
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1044		09/20/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	112.0	127.8	8	96	95	-2 / 2	Pass
1045		09/20/21	18		Class 1	7.1	141.9	7.7	136.3	146.8	8	96	95	-2 / 2	Pass
1046		09/20/21	18		Class 1	7.1	141.9	7.5	136.6	146.8	8	96	95	-2 / 2	Pass
1047		09/20/21	18		Class 1	7.1	141.9	8.0	135.7	146.6	8	96	95	-2 / 2	Pass
1048		09/20/21	18		Class 1	7.1	141.9	6.7	134.8	143.8	8	95	95	-2 / 2	Pass
1049		09/20/21	18		Class 1	7.1	141.9	7.1	135.2	144.8	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1044	Storm Sewer Manhole: PLAN: STORM-12, STMH 3-12, east side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1045	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1046	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1047	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1048	Storm Sewer Manhole: PLAN: STORM-3, STMH 1-3, east side	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1049	Storm Sewer Manhole: PLAN: STORM-3, STMH 1-3, south side	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1049: The Contractor, Iron Woman, utilized two excavators to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material. Two vibrating steel drums were used to apply compactive effort to the fill

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000095
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1050		09/21/21	19	ASTM D1557	A-2-4	9.1	125.1	10.4	123.5	136.3	8	99	95	-2 / 2	Pass
1051		09/21/21	19	ASTM D1557	A-2-4	9.1	125.1	10.9	119.5	132.5	8	96	95	-2 / 2	Pass
1052		09/21/21	18		Class 1	7.1	141.9	7.5	134.9	145.0	8	95	95	-2 / 2	Pass
1053		09/21/21	18		Class 1	7.1	141.9	7.9	135.4	146.1	8	95	95	-2 / 2	Pass
1054		09/21/21	18		Class 1	7.1	141.9	7.1	136.3	146.0	8	96	95	-2 / 2	Pass
1055		09/21/21	06	ASTM D698	A-7-6	12.7	111.0	16.2	107.9	125.4	8	97	95	0 / 4	Pass
1056		09/21/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	113.1	128.5	8	97	95	-2 / 2	Pass
1057		09/21/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	116.1	130.3	8	100	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1050	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' west of wall	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1051	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' west of wall	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1052	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1053	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' north of south end	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1054	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1055	Inlet: PLAN: STORM-4, Inlet 2-4, north side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1056	Inlet: PLAN: STORM-4, Inlet 2-4, east side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1057	Inlet: PLAN: STORM-4, Inlet 2-4, west side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000095
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1058		09/21/21	06	ASTM D698	A-7-6	12.7	111.0	14.7	110.1	126.3	8	99	95	0 / 4	Pass
1059		09/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.2	109.6	126.3	8	99	95	0 / 4	Pass
1060		09/21/21	14	ASTM D1557	A-2-4	13.0	116.6	14.8	111.7	128.2	8	96	95	-2 / 2	Pass
1061		09/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	109.3	125.7	8	98	95	0 / 4	Pass
1062		09/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.5	108.8	125.7	8	98	95	0 / 4	Pass
1063		09/21/21	14	ASTM D1557	A-2-4	13.0	116.6	13.3	115.7	131.1	8	99	95	-2 / 2	Pass
1064		09/21/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	114.4	129.8	8	98	95	-2 / 2	Pass
1065		09/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.6	110.2	127.4	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1058	Inlet: PLAN: STORM-4, Inlet 2-4, south side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1059	Inlet: PLAN: STORM-4, Inlet 2-4, north side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1060	Inlet: PLAN: STORM-4, Inlet 2-4, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1061	Inlet: PLAN: STORM-4, Inlet 2-4, west side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1062	Inlet: PLAN: STORM-4, Inlet 2-4, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1063	Inlet: PLAN: STORM-4, Inlet 1-4, north side	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1064	Inlet: PLAN: STORM-4, Inlet 1-4, east side	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1065	Inlet: PLAN: STORM-4, Inlet 1-4, west side	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000095
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1066		09/21/21	02	ASTM D698	A-6	15.2	109.4	17.4	108.1	126.9	8	99	95	0 / 4	Pass
1067		09/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.2	107.3	123.6	8	97	95	0 / 4	Pass
1068		09/21/21	12	ASTM D698	A-6	14.1	116.4	15.9	111.1	128.8	8	95	95	0 / 4	Pass
1069		09/21/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	109.5	125.9	8	99	95	0 / 4	Pass
1070		09/21/21	06	ASTM D698	A-7-6	12.7	111.0	16.0	107.9	125.2	8	97	95	0 / 4	Pass
1071		09/21/21	18		Class 1	7.1	141.9	5.6	134.8	142.3	8	95	95	-2 / 2	Pass
1072		09/21/21	18		Class 1	7.1	141.9	5.3	136.9	144.2	8	96	95	-2 / 2	Pass
1073		09/21/21	14	ASTM D1557	A-2-4	13.0	116.6	14.8	114.7	131.7	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1066	Inlet: PLAN: STORM-4, Inlet 1-4, south side	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1067	Inlet: PLAN: STORM-4, Inlet 1-4, north side	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1068	Inlet: PLAN: STORM-4, Inlet 1-4, east side	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1069	Inlet: PLAN: STORM-4, Inlet 1-4, west side	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1070	Inlet: PLAN: STORM-4, Inlet 1-4, south side	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1071	Street Base Course: South Peoria Street, northbound, and Belford Avenue, southeast pork chop	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
1072	Street Base Course: South Peoria Street, northbound, 50' north of Belford Avenue, lane 1	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
1073	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' west of wall	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000095
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1074		09/21/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	112.1	127.7	8	96	95	-2 / 2	Pass
1075		09/21/21	18		Class 1	7.1	141.9	7.4	136.0	146.1	8	96	95	-2 / 2	Pass
1076		09/21/21	18		Class 1	7.1	141.9	8.2	135.3	146.4	8	95	95	-2 / 2	Pass
1077		09/21/21	18		Class 1	7.1	141.9	7.7	135.6	146.0	8	96	95	-2 / 2	Pass
1078		09/21/21	18		Class 1	7.1	141.9	6.9	135.5	144.8	8	95	95	-2 / 2	Pass
1079		09/21/21	18		Class 1	7.1	141.9	7.0	135.8	145.3	8	96	95	-2 / 2	Pass
1080		09/21/21	18		Class 1	7.1	141.9	6.3	134.9	143.4	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1074	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' west of wall	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1075	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1076	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1077	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1078	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1079	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1080	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1080: The Contractor, Iron Woman, utilized two excavators to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material. Two vibrating steel drums were used to apply compactive effort to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000096
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1081		09/22/21	18		Class 1	7.1	141.9	5.3	135.0	142.2	8	95	95	-2 / 2	Pass
1082		09/22/21	16	ASTM D698	A-6	17.2	108.6	18.8	104.9	124.6	8	97	95	0 / 4	Pass
1083		09/22/21	16	ASTM D698	A-6	17.2	108.6	18.2	105.8	125.1	8	97	95	0 / 4	Pass
1084		09/22/21	02	ASTM D698	A-6	15.2	109.4	16.0	108.2	125.5	8	99	95	0 / 4	Pass
1085		09/22/21	06	ASTM D698	A-7-6	12.7	111.0	16.4	110.3	128.4	8	99	95	0 / 4	Pass
1086		09/22/21	18		Class 1	7.1	141.9	7.5	136.4	146.6	8	96	95	-2 / 2	Pass
1087		09/22/21	18		Class 1	7.1	141.9	7.2	135.6	145.4	8	96	95	-2 / 2	Pass
1088		09/22/21	18		Class 1	7.1	141.9	6.8	136.2	145.5	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1081	Street Base Course: South Peoria Street, northbound, and Belford Avenue, northeast pork chop	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
1082	Street Subgrade: Belford Avenue, eastbound, Station 16+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1083	Street Subgrade: Belford Avenue, eastbound, Station 19+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1084	Street Subgrade: Belford Avenue, eastbound, Station 21+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1085	Street Subgrade: Belford Avenue, eastbound, Station 24+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1086	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1087	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1088	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000096
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1089		09/22/21	18		Class 1	7.1	141.9	6.3	135.7	144.2	8	96	95	-2 / 2	Pass
1090		09/22/21	18		Class 1	7.1	141.9	6.6	137.0	146.0	8	97	95	-2 / 2	Pass
1091		09/22/21	18		Class 1	7.1	141.9	6.7	135.2	144.3	8	95	95	-2 / 2	Pass
1092		09/22/21	14	ASTM D1557	A-2-4	13.0	116.6	12.0	116.2	130.1	8	100	95	-2 / 2	Pass
1093		09/22/21	19	ASTM D1557	A-2-4	9.1	125.1	11.1	119.4	132.7	8	95	95	-2 / 2	Pass
1094		09/22/21	19	ASTM D1557	A-2-4	9.1	125.1	9.2	121.0	132.1	8	97	95	-2 / 2	Pass
1095		09/22/21	19	ASTM D1557	A-2-4	9.1	125.1	8.7	122.1	132.7	8	98	95	-2 / 2	Pass
1096		09/22/21	18		Class 1	7.1	141.9	5.8	137.8	145.8	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1089	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1090	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1091	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1092	Storm Sewer Main: PLAN: STORM-3, Station 10+75	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1093	Storm Sewer Main: PLAN: STORM-3, Station 11+00	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1094	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1095	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' east of wall	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1096	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000096
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1097		09/22/21	18		Class 1	7.1	141.9	6.0	137.1	145.3	8	97	95	-2 / 2	Pass
1098		09/22/21	18		Class 1	7.1	141.9	7.0	139.1	148.8	8	98	95	-2 / 2	Pass
1099		09/22/21	18		Class 1	7.1	141.9	6.8	135.1	144.3	8	95	95	-2 / 2	Pass
1100		09/22/21	18		Class 1	7.1	141.9	6.9	135.6	145.0	8	96	95	-2 / 2	Pass
1101		09/22/21	18		Class 1	7.1	141.9	6.3	136.3	144.9	8	96	95	-2 / 2	Pass
1102		09/22/21	18		Class 1	7.1	141.9	6.2	134.9	143.3	8	95	95	-2 / 2	Pass
1103		09/22/21	18		Class 1	7.1	141.9	5.9	137.0	145.1	8	97	95	-2 / 2	Pass
1104		09/22/21	18		Class 1	7.1	141.9	6.6	135.8	144.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1097	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1098	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1099	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1100	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1101	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1102	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1103	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1104	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000096
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1105		09/22/21	18		Class 1	7.1	141.9	5.5	136.3	143.8	8	96	95	-2 / 2	Pass
1106		09/22/21	18		Class 1	7.1	141.9	6.4	135.0	143.6	8	95	95	-2 / 2	Pass
1107		09/22/21	18		Class 1	7.1	141.9	6.1	135.8	144.1	8	96	95	-2 / 2	Pass
1108		09/22/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	114.1	129.5	8	98	95	-2 / 2	Pass
1109		09/22/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	115.6	130.3	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1105	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1106	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1107	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1108	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1109	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' east of wall	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1109: The Contractor, Iron Woman, utilized two excavators to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material. Two vibrating steel drums were used to apply compactive effort to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000097
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1110		09/23/21	18		Class 1	7.1	141.9	7.0	135.1	144.6	8	95	95	-2 / 2	Pass
1111		09/23/21	18		Class 1	7.1	141.9	5.9	136.9	145.0	8	96	95	-2 / 2	Pass
1112		09/23/21	18		Class 1	7.1	141.9	6.8	136.4	145.7	8	96	95	-2 / 2	Pass
1113		09/23/21	18		Class 1	7.1	141.9	7.7	135.0	145.4	8	95	95	-2 / 2	Pass
1114		09/23/21	18		Class 1	7.1	141.9	6.0	134.9	143.0	8	95	95	-2 / 2	Pass
1115		09/23/21	18		Class 1	7.1	141.9	7.6	135.3	145.6	8	95	95	-2 / 2	Pass
1116		09/23/21	18		Class 1	7.1	141.9	7.8	135.7	146.3	8	96	95	-2 / 2	Pass
1117		09/23/21	18		Class 1	7.1	141.9	6.2	136.8	145.3	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1110	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1111	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1112	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1113	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1114	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1115	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1116	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1117	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000097
Report Date: 09/28/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1118		09/23/21	18		Class 1	7.1	141.9	7.2	135.8	145.6	8	96	95	-2 / 2	Pass
1119		09/23/21	18		Class 1	7.1	141.9	7.0	136.2	145.7	8	96	95	-2 / 2	Pass
1120		09/23/21	18		Class 1	7.1	141.9	6.5	135.9	144.7	8	96	95	-2 / 2	Pass
1121		09/23/21	18		Class 1	7.1	141.9	6.7	137.1	146.3	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1118	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1119	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1120	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1121	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1121: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000098
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1122		09/23/21	18		Class 1	7.1	141.9	6.9	134.9	144.2	8	95	95	-2 / 2	Pass
1123		09/23/21	18		Class 1	7.1	141.9	7.6	135.5	145.8	8	95	95	-2 / 2	Pass
1124		09/23/21	18		Class 1	7.1	141.9	7.3	136.1	146.0	8	96	95	-2 / 2	Pass
1125		09/23/21	18		Class 1	7.1	141.9	6.4	136.0	144.7	8	96	95	-2 / 2	Pass
1126		09/23/21	18		Class 1	7.1	141.9	7.0	135.8	145.3	8	96	95	-2 / 2	Pass
1127		09/23/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	116.7	129.8	8	100	95	-2 / 2	Pass
1128		09/23/21	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.6	127.0	8	96	95	-2 / 2	Pass
1129		09/23/21	19	ASTM D1557	A-2-4	9.1	125.1	10.2	119.4	131.6	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1122	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1123	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1124	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1125	Storm Sewer Manhole: PLAN: STORM-3, STMH 1-3, east side	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1126	Storm Sewer Manhole: PLAN: STORM-3, STMH 1-3, south side	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1127	Storm Sewer Manhole: PLAN: STORM-3, STMH 1-3, west side	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1128	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' west of wall	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1129	Box Culvert: Conspan under Belford Avenue, 75' south of north end, 15' west of wall	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000098
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1130		09/23/21	12	ASTM D698	A-6	14.1	116.4	15.2	114.3	131.7	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1130	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' west of wall	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1130: The Contractor, Iron Woman, utilized two excavators to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material. Two vibrating steel drums were used to apply compactive effort to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000099
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1131		09/24/21	18		Class 1	7.1	141.9	5.2	135.1	142.1	8	95	95	-2 / 2	Pass
1132		09/24/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	113.9	128.1	8	98	95	-2 / 2	Pass
1133		09/24/21	14	ASTM D1557	A-2-4	13.0	116.6	11.6	114.8	128.1	8	98	95	-2 / 2	Pass
1134		09/24/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	106.6	120.4	8	96	95	0 / 4	Pass
1135		09/24/21	14	ASTM D1557	A-2-4	13.0	116.6	11.6	116.0	129.5	8	99	95	-2 / 2	Pass
1136		09/24/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	115.8	130.5	8	99	95	-2 / 2	Pass
1137		09/24/21	14	ASTM D1557	A-2-4	13.0	116.6	12.6	116.4	131.1	8	100	95	-2 / 2	Pass
1138		09/24/21	12	ASTM D698	A-6	14.1	116.4	16.2	111.0	129.0	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1131	Street Base Course: South Peoria Street, 75' south of Belford Avenue	0.0	TBC	Troxler / 3430 / 22405 /	Caperton, Mason
1132	Street Subgrade: Belford Avenue, eastbound, Station 29+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1133	Street Subgrade: Belford Avenue, eastbound, Station 31+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1134	Street Subgrade: Belford Avenue, eastbound, Station 34+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1135	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' west of wall	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1136	Box Culvert: Conspan under Belford Avenue, 75' south of north end, 15' west of wall	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1137	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' west of wall	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1138	Box Culvert: Conspan under Belford Avenue, 25' south of north end, 15' east of wall	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000099
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1139		09/24/21	02	ASTM D698	A-6	15.2	109.4	17.0	108.5	126.9	8	99	95	0 / 4	Pass
1140		09/24/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	116.6	131.2	8	100	95	-2 / 2	Pass
1141		09/24/21	18		Class 1	7.1	141.9	6.7	135.8	144.9	8	96	95	-2 / 2	Pass
1142		09/24/21	18		Class 1	7.1	141.9	7.0	136.3	145.8	8	96	95	-2 / 2	Pass
1143		09/24/21	18		Class 1	7.1	141.9	6.5	135.5	144.3	8	95	95	-2 / 2	Pass
1144		09/24/21	18		Class 1	7.1	141.9	6.1	137.0	145.4	8	97	95	-2 / 2	Pass
1145		09/24/21	18		Class 1	7.1	141.9	6.9	136.7	146.1	8	96	95	-2 / 2	Pass
1146		09/24/21	18		Class 1	7.1	141.9	7.3	134.9	144.7	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1139	Box Culvert: Conspan under Belford Avenue, 75' south of north end, 15' east of wall	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1140	Box Culvert: Conspan under Belford Avenue, 25' north of south end, 15' east of wall	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1141	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' south of north end	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1142	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 75' south of north end	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1143	Box Culvert: Walls: Conspan under Belford Avenue, east wall, 25' north of south end	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1144	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' south of north end	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1145	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 75' south of north end	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1146	Box Culvert: Walls: Conspan under Belford Avenue, west wall, 25' north of south end	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1146: The Contractor, Iron Woman, utilized two excavators to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material. Two vibrating steel drums were used to apply compactive effort to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000100
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1147		09/27/21	19	ASTM D1557	A-2-4	9.1	125.1	10.4	119.7	132.1	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1147	Storm Sewer Manhole: PLAN: STORM-4, STMH 2-4, Base	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1147: The Contractor, Iron Woman, utilized one excavator with compaction wheel to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000101
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1148		09/28/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	116.3	131.5	8	100	95	-2 / 2	Pass
1149		09/28/21	14	ASTM D1557	A-2-4	13.0	116.6	12.7	115.9	130.6	8	99	95	-2 / 2	Pass
1150		09/28/21	19	ASTM D1557	A-2-4	9.1	125.1	8.8	119.8	130.3	8	96	95	-2 / 2	Pass
1151		09/28/21	12	ASTM D698	A-6	14.1	116.4	15.4	115.1	132.8	8	99	95	0 / 4	Pass
1152		09/28/21	06	ASTM D698	A-7-6	12.7	111.0	14.9	110.9	127.4	8	100	95	0 / 4	Pass
1153		09/28/21	06	ASTM D698	A-7-6	12.7	111.0	16.0	108.5	125.9	8	98	95	0 / 4	Pass
1154		09/28/21	12	ASTM D698	A-6	14.1	116.4	15.2	111.4	128.3	8	96	95	0 / 4	Pass
1155		09/28/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	112.2	128.5	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1148	Street Subgrade: Belford Avenue, eastbound, Station 36+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1149	Street Subgrade: Belford Avenue, eastbound, Station 39+00	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1150	Street Subgrade: Belford Avenue, eastbound, Station 41+50	0.0	TSG	Troxler / 3430 / 22405 /	Caperton, Mason
1151	Water Main: PLAN: 12" WATERLINE, Station 45+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1152	Water Main: PLAN: 12" WATERLINE, Station 46+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1153	Water Main: PLAN: 12" WATERLINE, Station 45+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1154	Water Main: PLAN: 12" WATERLINE, Station 46+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1155	Water Main: PLAN: 12" WATERLINE, Station 45+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000101
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1156		09/28/21	06	ASTM D698	A-7-6	12.7	111.0	15.8	109.9	127.3	8	99	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1156	Water Main: PLAN: 12" WATERLINE, Station 46+00	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1156: The Contractor, Iron Woman, utilized two excavators to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Fill Testing

Report #: FT-000102
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1157		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	114.8	128.7	8	98	95	-2 / 2	Pass
1158		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	112.9	128.6	8	97	95	-2 / 2	Pass
1159		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	15.0	111.0	127.6	8	95	95	-2 / 2	Pass
1160		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	113.3	129.2	8	97	95	-2 / 2	Pass
1161		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	11.0	116.5	129.3	8	100	95	-2 / 2	Pass
1162		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	112.7	127.9	8	97	95	-2 / 2	Pass
1163		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	14.7	111.5	127.9	8	96	95	-2 / 2	Pass
1164		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.2	115.1	130.3	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1157	Water Main: PLAN: 12" WATERLINE, Station 67+75	15.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1158	Water Main: PLAN: 12" WATERLINE, Station 67+70	14.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1159	Water Main: PLAN: 12" WATERLINE, Station 67+80	13.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1160	Water Main: PLAN: 12" WATERLINE, Station 67+75	12.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1161	Water Main: PLAN: 12" WATERLINE, Station 67+70	11.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1162	Water Main: PLAN: 12" WATERLINE, Station 67+80	10.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1163	Water Main: PLAN: 12" WATERLINE, Station 67+75	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1164	Water Main: PLAN: 12" WATERLINE, Station 67+70	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000102
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1165		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.9	113.9	129.7	8	98	95	-2 / 2	Pass
1166		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	14.2	113.1	129.2	8	97	95	-2 / 2	Pass
1167		09/29/21	06	ASTM D698	A-7-6	12.7	111.0	15.4	105.6	121.9	8	95	95	0 / 4	Pass
1168		09/29/21	06	ASTM D698	A-7-6	12.7	111.0	15.0	107.5	123.6	8	97	95	0 / 4	Pass
1169		09/29/21	06	ASTM D698	A-7-6	12.7	111.0	14.1	108.9	124.3	8	98	95	0 / 4	Pass
1170		09/29/21	06	ASTM D698	A-7-6	12.7	111.0	15.3	106.8	123.1	8	96	95	0 / 4	Pass
1171		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	116.9	132.7	8	100	95	-2 / 2	Pass
1172		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	116.0	131.1	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1165	Water Main: PLAN: 12" WATERLINE, Station 67+80	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1166	Water Main: PLAN: 12" WATERLINE, Station 67+75	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1167	Water Main: PLAN: 12" WATERLINE, Station 21+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1168	Water Main: PLAN: 12" WATERLINE, Station 21+50	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1169	Water Main: PLAN: 12" WATERLINE, Station 21+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1170	Water Main: PLAN: 12" WATERLINE, Station 21+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1171	Water Main: PLAN: 12" WATERLINE, Station 48+20	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1172	Water Main: PLAN: 12" WATERLINE, Station 48+20	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000102
Report Date: 09/30/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1173		09/29/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	115.1	131.3	8	99	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1173	Water Main: PLAN: 12" WATERLINE, Station 48+20	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1173: The Contractor, Iron Woman, utilized two excavators to place and apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000103
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1174		09/30/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	114.3	128.2	8	98	95	-2 / 2	Pass
1175		09/30/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	115.0	128.6	8	99	95	-2 / 2	Pass
1176		09/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	112.1	127.8	8	96	95	-2 / 2	Pass
1177		09/30/21	14	ASTM D1557	A-2-4	13.0	116.6	14.7	111.7	128.1	8	96	95	-2 / 2	Pass
1178		09/30/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	113.0	127.7	8	97	95	-2 / 2	Pass
1179		09/30/21	14	ASTM D1557	A-2-4	13.0	116.6	13.6	115.9	131.7	8	99	95	-2 / 2	Pass
1180		09/30/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	116.2	131.1	8	100	95	-2 / 2	Pass
1181		09/30/21	19	ASTM D1557	A-2-4	9.1	125.1	11.1	119.0	132.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1174	Water Main: PLAN: 12" WATERLINE, Station 67+70	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1175	Water Main: PLAN: 12" WATERLINE, Station 67+80	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1176	Water Main: PLAN: 12" WATERLINE, Station 67+75	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1177	Water Main: PLAN: 12" WATERLINE, Station 67+70	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1178	Water Main: PLAN: 12" WATERLINE, Station 67+80	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1179	Water Main: PLAN: 12" WATERLINE, Station 61+75, CS 2-11.3, blowoff manhole	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1180	Water Main: PLAN: 12" WATERLINE, Station 61+75, CS 2-11.3, blowoff manhole	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1181	Water Main: PLAN: 12" WATERLINE, Station 61+75, CS 2-11.3, blowoff manhole	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000103
Report Date: 10/01/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1182		09/30/21	14	ASTM D1557	A-2-4	13.0	116.6	12.3	116.7	131.1	8	100	95	-2 / 2	Pass
1183		09/30/21	12	ASTM D698	A-6	14.1	116.4	15.7	112.3	129.9	8	96	95	0 / 4	Pass
1184		09/30/21	14	ASTM D1557	A-2-4	13.0	116.6	13.7	113.2	128.7	8	97	95	-2 / 2	Pass
1185		09/30/21	06	ASTM D698	A-7-6	12.7	111.0	13.8	109.3	124.4	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1182	Street Subgrade: Belford Avenue, eastbound, Station 44+50	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1183	Street Subgrade: Belford Avenue, eastbound, Station 46+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1184	Street Subgrade: Belford Avenue, eastbound, Station 45+00	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1185	Street Subgrade: Belford Avenue, eastbound, Station 45+50	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1185: The Contractor, Iron Woman Construction, utilized one excavator with compaction wheel to apply compactive effort to the fill. One water truck was used to add moisture to the fill material.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000104
Report Date: 10/21/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1186		10/01/21	22	ASTM D1557	ABC	5.8	138.6	5.4	136.1	143.4	8	98	95	-2 / 2	Pass
1187		10/01/21	22	ASTM D1557	ABC	5.8	138.6	6.0	135.2	143.3	8	98	95	-2 / 2	Pass
1188		10/01/21	22	ASTM D1557	ABC	5.8	138.6	5.6	137.9	145.6	8	99	95	-2 / 2	Pass
1189		10/01/21	22	ASTM D1557	ABC	5.8	138.6	5.7	137.1	144.9	8	99	95	-2 / 2	Pass
1190		10/01/21	22	ASTM D1557	ABC	5.8	138.6	5.2	134.9	141.9	8	97	95	-2 / 2	Pass
1191		10/01/21	22	ASTM D1557	ABC	5.8	138.6	5.9	136.2	144.2	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1186	Curb and Gutter: Belford Avenue, STA: 14+00	0.0	TBC	Troxler / 3430 / 27056 /	Caperton, Mason
1187	Curb and Gutter: Belford Avenue, STA: 16+50	0.0	TBC	Troxler / 3430 / 27056 /	Caperton, Mason
1188	Curb and Gutter: Belford Avenue, STA: 19+00	0.0	TBC	Troxler / 3430 / 27056 /	Caperton, Mason
1189	Curb and Gutter: Belford Avenue, STA: 21+50	0.0	TBC	Troxler / 3430 / 27056 /	Caperton, Mason
1190	Curb and Gutter: Belford Avenue, STA: 24+00	0.0	TBC	Troxler / 3430 / 27056 /	Caperton, Mason
1191	Curb and Gutter: Belford Avenue, STA: 26+50	0.0	TBC	Troxler / 3430 / 27056 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1191: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

AGW
A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000105
Report Date: 10/21/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1192		10/04/21	14	ASTM D1557	A-2-4	13.0	116.6	13.1	112.7	127.5	8	97	95	-2 / 2	Pass
1193		10/04/21	14	ASTM D1557	A-2-4	13.0	116.6	12.3	111.9	125.7	8	96	95	-2 / 2	Pass
1194		10/04/21	14	ASTM D1557	A-2-4	13.0	116.6	14.9	110.8	127.3	8	95	95	-2 / 2	Pass
1195		10/04/21	14	ASTM D1557	A-2-4	13.0	116.6	12.1	113.8	127.6	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1192	Storm Sewer Manhole: Belford Avenue, Plan: Storm 3, Manhole 1-3, north side	4.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1193	Storm Sewer Manhole: Belford Avenue, Plan: Storm 3, Manhole 1-3, south side	3.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1194	Storm Sewer Manhole: Belford Avenue, Plan: Storm 3, Manhole 1-3, west side	2.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1195	Storm Sewer Manhole: Belford Avenue, Plan: Storm 3, Manhole 1-3, north side	1.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1195: The Contractor utilized an excavator with wheel attachment to place and apply compactive effort to the fill. A water truck was used to apply moisture to the fill.

The east side of the manhole was not tested because of its proximity to the conspan.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000106
Report Date: 10/21/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1196		10/05/21	16	ASTM D698	A-6	17.2	108.6	18.2	104.2	123.2	8	96	95	0 / 4	Pass
1197		10/05/21	16	ASTM D698	A-6	17.2	108.6	17.3	104.8	122.9	8	97	95	0 / 4	Pass
1198		10/05/21	16	ASTM D698	A-6	17.2	108.6	17.6	104.5	122.9	8	96	95	0 / 4	Pass
1199		10/05/21	16	ASTM D698	A-6	17.2	108.6	18.8	105.3	125.1	8	97	95	0 / 4	Pass
1200		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	12.0	113.0	126.6	8	97	95	-2 / 2	Pass
1201		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.3	111.5	124.1	8	96	95	-2 / 2	Pass
1202		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.1	110.8	123.1	8	95	95	-2 / 2	Pass
1203		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.9	112.6	126.0	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1196	Water Main: Plan: 12" Waterline, Profile: 12" Waterline, (pipe between Belford Avenue and E-470)	4.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1197	Water Main: Plan: 12" Waterline, Profile: 12" Waterline, STA: 20+50, (pipe between Belford Avenue and E-470)	3.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1198	Water Main: Plan: 12" Waterline, Profile: 12" Waterline, STA: 19+75, (pipe between Belford Avenue and E-470)	2.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1199	Water Main: Plan: 12" Waterline, Profile: 12" Waterline, STA: 20+25, (pipe between Belford Avenue and E-470)	1.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1200	Inlet: Belford Avenue, Plan: Storm 6, Profile: Storm 6, Inlet 1-6, south side	5.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1201	Inlet: Belford Avenue, Plan: Storm 6, Profile: Storm 6, Inlet 1-6, east side	4.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1202	Inlet: Belford Avenue, Plan: Storm 6, Profile: Storm 6, Inlet 1-6, west side	3.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1203	Inlet: Belford Avenue, Plan: Storm 6, Profile: Storm 6, Inlet 1-6, south side	2.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000106
Report Date: 10/21/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1204		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	112.2	125.1	8	96	95	-2 / 2	Pass
1205		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	114.3	127.1	8	98	95	-2 / 2	Pass
1206		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	113.2	126.2	8	97	95	-2 / 2	Pass
1207		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	111.0	124.1	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1204	Inlet: Belford Avenue, Plan: Storm 6, Profile: Storm 6, Inlet 1-6, east side	1.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1205	Storm Sewer Manhole: Belford Avenue, Plan: 12" Waterline, Profile: 12" Waterline, blowoff manhole CS-2-11.3, north side	3.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1206	Storm Sewer Manhole: Belford Avenue, Plan: 12" Waterline, Profile: 12" Waterline, blowoff manhole CS-2-11.3, south side	2.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1207	Storm Sewer Manhole: Belford Avenue, Plan: 12" Waterline, Profile: 12" Waterline, blowoff manhole CS-2-11.3, east side	1.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1207: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000107
Report Date: 10/21/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1208		10/11/21	14	ASTM D1557	A-2-4	13.0	116.6	11.1	112.7	125.2	8	97	95	-2 / 2	Pass
1209		10/11/21	06	ASTM D698	A-7-6	12.7	111.0	14.0	108.3	123.5	8	98	95	0 / 4	Pass
1210		10/11/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	112.3	126.9	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1208	Storm Sewer Main: PLAN: STORM-5, (East Berm), Station 11+25	9.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1209	Storm Sewer Main: PLAN: STORM-5, (East Berm), Station 11+00	8.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1210	Storm Sewer Main: PLAN: STORM-5, (East Berm), Station 11+50	7.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1210: The Contractor, Iron Woman, utilized an excavator with wheel attachment place and apply compactive effort to the fill. One water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000108
Report Date: 10/21/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1211		10/12/21	06	ASTM D698	A-7-6	12.7	111.0	12.9	110.5	124.8	8	100	95	0 / 4	Pass
1212		10/12/21	06	ASTM D698	A-7-6	12.7	111.0	14.3	107.3	122.6	8	97	95	0 / 4	Pass
1213		10/12/21	06	ASTM D698	A-7-6	12.7	111.0	13.8	108.9	123.9	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1211	Storm Sewer Main: PLAN: STORM-5, (East Berm), Station 11+25	6.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1212	Storm Sewer Main: PLAN: STORM-5, (East Berm), Station 10+50	5.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1213	Storm Sewer Main: PLAN: STORM-5, (East Berm), Station 10+75	4.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1213: The Contractor, Iron Woman, utilized an excavator with wheel attachment place and apply compactive effort to the fill. One water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000109
Report Date: 10/21/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1214		10/13/21	06	ASTM D698	A-7-6	12.7	111.0	14.1	109.1	124.5	8	98	95	0 / 4	Pass
1215		10/13/21	14	ASTM D1557	A-2-4	13.0	116.6	12.2	111.8	125.4	8	96	95	-2 / 2	Pass
1216		10/13/21	06	ASTM D698	A-7-6	12.7	111.0	14.5	108.1	123.8	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1214	Storm Sewer Main: PLAN: STORM-5, (East Berm), Station 11+00	3.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1215	Storm Sewer Main: PLAN: STORM-5, (East Berm), Station 11+50	2.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason
1216	Storm Sewer Main: PLAN: STORM-5, (East Berm), Station 11+25	1.0	BSG	Troxler / 3430 / 22405 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1216: The Contractor, Iron Woman, utilized an excavator with wheel attachment place and apply compactive effort to the fill. One water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000110
Report Date: 10/21/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1217		10/15/21	14	ASTM D1557	A-2-4	13.0	116.6	11.1	116.4	129.3	8	100	95	-2 / 2	Pass
1218		10/15/21	14	ASTM D1557	A-2-4	13.0	116.6	13.0	113.4	128.1	8	97	95	-2 / 2	Pass
1219		10/15/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	112.1	127.9	8	96	95	-2 / 2	Pass
1220		10/15/21	06	ASTM D698	A-7-6	12.7	111.0	15.2	109.9	126.6	8	99	95	0 / 4	Pass
1221		10/15/21	06	ASTM D698	A-7-6	12.7	111.0	15.6	107.5	124.3	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1217	Storm Sewer Main: PLAN: STORM-4, (West Berm), Station 19+00	5.0	BSG	Instrotek / 3500 / 4121 /	Caperton, Mason
1218	Storm Sewer Main: PLAN: STORM-4, (West Berm), Station 19+25	4.0	BSG	Instrotek / 3500 / 4121 /	Caperton, Mason
1219	Storm Sewer Main: PLAN: STORM-4, (West Berm), Station 19+00	3.0	BSG	Instrotek / 3500 / 4121 /	Caperton, Mason
1220	Storm Sewer Main: PLAN: STORM-4, (West Berm), Station 19+25	2.0	BSG	Instrotek / 3500 / 4121 /	Caperton, Mason
1221	Storm Sewer Main: PLAN: STORM-4, (West Berm), Station 19+00	1.0	BSG	Instrotek / 3500 / 4121 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1221: The Contractor, Iron Woman, utilized an excavator with wheel attachment place and apply compactive effort to the fill. One water truck was used to add moisture to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000111
Revised
Report Date: 11/09/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1205		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.2	114.3	127.1	8	98	95	-2 / 2	Pass
1206		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.5	113.2	126.2	8	97	95	-2 / 2	Pass
1207		10/05/21	14	ASTM D1557	A-2-4	13.0	116.6	11.8	111.0	124.1	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1205	Water Valve: Belford Avenue, Plan: 12" Waterline, Profile: 12" Waterline, blowoff manhole CS-2-11.3, north side	3.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1206	Water Valve: Belford Avenue, Plan: 12" Waterline, Profile: 12" Waterline, blowoff manhole CS-2-11.3, south side	2.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven
1207	Water Valve: Belford Avenue, Plan: 12" Waterline, Profile: 12" Waterline, blowoff manhole CS-2-11.3, east side	1.0	BSG	Troxler / 3430 / 27056 /	McCormack, Steven

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1207: The Contractor utilized an excavator with a wheel attachment to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000112
Report Date: 11/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1222		10/20/21	23	ASTM D1557	ABC	4.7	136.2	3.0	135.2	139.3	8	99	95	-2 / 2	Pass
1223		10/20/21	23	ASTM D1557	ABC	4.7	136.2	3.2	136.6	141.0	8	100	95	-2 / 2	Pass
1224		10/20/21	23	ASTM D1557	ABC	4.7	136.2	2.9	135.4	139.3	8	99	95	-2 / 2	Pass
1225		10/20/21	23	ASTM D1557	ABC	4.7	136.2	2.7	129.7	133.2	8	95	95	-2 / 2	Pass
1226		10/20/21	23	ASTM D1557	ABC	4.7	136.2	3.1	130.1	134.1	8	96	95	-2 / 2	Pass
1227		10/20/21	23	ASTM D1557	ABC	4.7	136.2	3.4	134.6	139.2	8	99	95	-2 / 2	Pass
1228		10/20/21	23	ASTM D1557	ABC	4.7	136.2	2.7	136.4	140.1	8	100	95	-2 / 2	Pass
1229		10/20/21	23	ASTM D1557	ABC	4.7	136.2	3.3	133.9	138.3	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1222	Curb and Gutter: Belford Avenue, eastbound, Station 13+50	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason
1223	Curb and Gutter: Belford Avenue, eastbound, Station 16+00	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason
1224	Curb and Gutter: Belford Avenue, eastbound, Station 18+50	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason
1225	Curb and Gutter: Belford Avenue, eastbound, Station 21+00	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason
1226	Curb and Gutter: Belford Avenue, eastbound, Station 30+00	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason
1227	Curb and Gutter: Belford Avenue, eastbound, Station 32+50	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason
1228	Curb and Gutter: Belford Avenue, eastbound, Station 35+00	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason
1229	Curb and Gutter: Belford Avenue, eastbound, Station 37+50	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000112
Report Date: 11/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1230		10/20/21	23	ASTM D1557	ABC	4.7	136.2	3.1	135.1	139.3	8	99	95	-2 / 2	Pass
1231		10/20/21	23	ASTM D1557	ABC	4.7	136.2	2.9	130.9	134.7	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1230	Curb and Gutter: Belford Avenue, eastbound, Station 39+50	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason
1231	Curb and Gutter: Belford Avenue, eastbound, Station 42+00	0.0	TBC	Instrotek / 3500 / 4121 /	Caperton, Mason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1231: The Contractor, Schmidt, prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000113
Report Date: 11/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1232		11/05/21	14	ASTM D1557	A-2-4	13.0	116.6	12.8	111.9	126.2	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1232	Street Subgrade: Belford avenue, station 43+00	0.0	TSG	Troxler / 3430 / 23706 /	Bross, Terrance

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1232: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000114
Report Date: 11/12/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1233		11/08/21	22	ASTM D1557	ABC	5.8	138.6	4.3	136.4	142.3	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1233	Curb and Gutter: Belford Avenue, STA. 42+25, southeast side	0.0	TBC	Troxler / 3440 / 20688 /	Croft, Chad

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1233: The Contractor, 3 Sons prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000115
Report Date: 12/07/2021
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1235	788	11/09/21	18		Class 1	7.1	141.9	7.6	135.2	145.5	6	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1235	Box Culvert: Walls: Conspan under Belford Avenue, east wall exterior, 50' south of north side	4.0	BTW	Troxler / 3430 / 36856 /	Bierbower, Bryce

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1235: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000116
Report Date: 02/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1235		12/13/21	14	ASTM D1557	A-2-4	13.0	116.6	14.1	105.2	120.0	8	90	95	-2 / 2	Fail
1236		12/13/21	14	ASTM D1557	A-2-4	13.0	116.6	12.5	104.9	118.0	8	90	95	-2 / 2	Fail
1237		12/13/21	14	ASTM D1557	A-2-4	13.0	116.6	13.5	105.0	119.2	8	90	95	-2 / 2	Fail
1238	1235	12/14/21	14	ASTM D1557	A-2-4	13.0	116.6	14.0	111.5	127.1	8	96	95	-2 / 2	Pass
1239	1236	12/14/21	14	ASTM D1557	A-2-4	13.0	116.6	14.3	112.4	128.5	8	96	95	-2 / 2	Pass
1240	1237	12/14/21	14	ASTM D1557	A-2-4	13.0	116.6	14.5	113.0	129.4	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1235	Trickle Channel: Drop structure, GAT Corridor Alignment STA 143+00, right side	0.0	TSG	Troxler / 3430 / 20035 /	Harmon, Dallas
1236	Trickle Channel: Drop structure, GAT Corridor Alignment STA 143+50, right side	0.0	TSG	Troxler / 3430 / 20035 /	Harmon, Dallas
1237	Trickle Channel: Drop structure, GAT Corridor Alignment STA 144+00, right side	0.0	TSG	Troxler / 3430 / 20035 /	Harmon, Dallas
1238	Trickle Channel: Drop structure, GAT Corridor Alignment STA 143+00, right side	0.0	TSG	Troxler / 3430 / 20035 /	Harmon, Dallas
1239	Trickle Channel: Drop structure, GAT Corridor Alignment STA 143+50, right side	0.0	TSG	Troxler / 3430 / 20035 /	Harmon, Dallas
1240	Trickle Channel: Drop structure, GAT Corridor Alignment STA 144+00, right side	0.0	TSG	Troxler / 3430 / 20035 /	Harmon, Dallas

Remarks	Comments
Fail: Density Fail / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.
Pass: Density Pass / Moisture Pass	**1240:** The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000117
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1241		03/14/22	06	ASTM D698	A-7-6	12.7	111.0	13.1	105.1	118.9	8	95	95	0 / 4	Pass
1242		03/14/22	06	ASTM D698	A-7-6	12.7	111.0	14.2	106.8	122.0	8	96	95	0 / 4	Pass
1243		03/14/22	06	ASTM D698	A-7-6	12.7	111.0	13.5	106.2	120.5	8	96	95	0 / 4	Pass
1244		03/14/22	06	ASTM D698	A-7-6	12.7	111.0	12.7	105.8	119.2	8	95	95	0 / 4	Pass
1245		03/14/22	06	ASTM D698	A-7-6	12.7	111.0	13.6	106.9	121.4	8	96	95	0 / 4	Pass
1246		03/14/22	06	ASTM D698	A-7-6	12.7	111.0	14.3	105.3	120.4	8	95	95	0 / 4	Pass
1247		03/14/22	14	ASTM D1557	A-2-4	13.0	116.6	11.5	111.6	124.4	8	96	95	-2 / 2	Pass
1248		03/14/22	14	ASTM D1557	A-2-4	13.0	116.6	12.9	111.1	125.4	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1241	Sidewalk: Belford Avenue, eastbound lane, station 22+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1242	Sidewalk: Belford Avenue, eastbound lane, station 24+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1243	Sidewalk: Belford Avenue, eastbound lane, station 26+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1244	Sidewalk: Belford Avenue, eastbound lane, station 28+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1245	Sidewalk: Belford Avenue, eastbound lane, station 30+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1246	Sidewalk: Belford Avenue, eastbound lane, station 32+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1247	Sidewalk: Belford Avenue, eastbound lane, station 34+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1248	Sidewalk: Belford Avenue, eastbound lane, station 36+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000117
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1249		03/14/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	110.7	123.3	8	95	95	-2 / 2	Pass
1250		03/14/22	14	ASTM D1557	A-2-4	13.0	116.6	12.2	113.2	127.0	8	97	95	-2 / 2	Pass
1251		03/14/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	113.6	126.9	8	97	95	-2 / 2	Pass
1252		03/14/22	14	ASTM D1557	A-2-4	13.0	116.6	11.8	111.9	125.1	8	96	95	-2 / 2	Pass
1253		03/14/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	110.8	123.4	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1249	Sidewalk: Belford Avenue, eastbound lane, station 38+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1250	Sidewalk: Belford Avenue, eastbound lane, station 40+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1251	Sidewalk: Belford Avenue, eastbound lane, station 42+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1252	Sidewalk: Belford Avenue, eastbound lane, station 44+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1253	Sidewalk: Belford Avenue, eastbound lane, station 46+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1253: The Contractor prepared the subgrade prior to arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000118
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1254		03/16/22	06	ASTM D698	A-7-6	12.7	111.0	12.8	105.3	118.8	8	95	95	0 / 4	Pass
1255		03/16/22	06	ASTM D698	A-7-6	12.7	111.0	14.4	106.5	121.8	8	96	95	0 / 4	Pass
1256		03/16/22	06	ASTM D698	A-7-6	12.7	111.0	13.1	106.9	120.9	8	96	95	0 / 4	Pass
1257		03/16/22	06	ASTM D698	A-7-6	12.7	111.0	15.3	105.2	121.3	8	95	95	0 / 4	Pass
1258		03/16/22	06	ASTM D698	A-7-6	12.7	111.0	13.7	106.4	121.0	8	96	95	0 / 4	Pass
1259		03/16/22	06	ASTM D698	A-7-6	12.7	111.0	14.9	108.6	124.8	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1254	Sidewalk: Belford Avenue, eastbound lane, station 11+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1255	Sidewalk: Belford Avenue, eastbound lane, station 13+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1256	Sidewalk: Belford Avenue, eastbound lane, station 15+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1257	Sidewalk: Belford Avenue, eastbound lane, station 17+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1258	Sidewalk: Belford Avenue, eastbound lane, station 19+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1259	Sidewalk: Belford Avenue, eastbound lane, station 21+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1259: The Contractor prepared the subgrade prior to arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Fill Testing

Report #: FT-000119
Report Date: 03/25/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1265		03/24/22	06	ASTM D698	A-7-6	12.7	111.0	12.9	105.5	119.1	8	95	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1265	Sidewalk: Belford Avenue, eastbound lane, station 11+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1265: The Contractor prepared the subgrade prior to arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Fill Testing

Report #: FT-000120
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1260		03/01/22	06	ASTM D698	A-7-6	12.7	111.0	13.2	103.2	116.8	8	93	95	0 / 4	Fail
1261	1260	03/01/22	06	ASTM D698	A-7-6	12.7	111.0	13.6	108.4	123.1	8	98	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1260	Wing Wall: Wing Wall A, 40' south of Belford Avenue	0.0	TSG	Troxler / 3500 / 3585 /	Zegan, Jason
1261	Wing Wall: Wing Wall A, 40' south of Belford Avenue	0.0	TSG	Troxler / 3500 / 3585 /	Zegan, Jason

Remarks

Fail: Density Fail / Moisture Pass

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1261: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000121
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1262		03/02/22	06	ASTM D698	A-7-6	12.7	111.0	14.1	107.3	122.4	8	97	95	0 / 4	Pass
1263		03/02/22	06	ASTM D698	A-7-6	12.7	111.0	13.8	107.7	122.6	8	97	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1262	Wing Wall: Wing Wall B, 30' north of Belford Avenue	0.0	TSG	Troxler / 3500 / 3585 /	Zegan, Jason
1263	Wing Wall: Wing Wall B, 40' north of Belford Avenue	0.0	TSG	Troxler / 3500 / 3585 /	Zegan, Jason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1263: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000122
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1264		03/03/22	06	ASTM D698	A-7-6	12.7	111.0	14.1	106.9	122.0	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1264	Wing Wall: Wing Wall D, 50' south of Belford Avenue	0.0	TSG	Troxler / 3500 / 3585 /	Zegan, Jason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1264: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000123
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1266		04/07/22	19	ASTM D1557	A-2-4	9.1	125.1	9.6	119.7	131.2	8	96	95	-2 / 2	Pass
1267		04/07/22	19	ASTM D1557	A-2-4	9.1	125.1	9.2	119.9	130.9	8	96	95	-2 / 2	Pass
1268		04/07/22	17	ASTM D1557	A-2-4	8.3	128.6	8.1	122.4	132.3	8	95	95	-2 / 2	Pass
1269		04/07/22	17	ASTM D1557	A-2-4	8.3	128.6	8.5	123.3	133.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1266	Street Subgrade: Belford Avenue, Station 70+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1267	Street Subgrade: Belford Avenue, Station 72+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1268	Street Subgrade: Belford Avenue, Station 74+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1269	Street Subgrade: Belford Avenue, Station 76+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1269: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000124
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1270		04/08/22	17	ASTM D1557	A-2-4	8.3	128.6	9.2	122.6	133.9	8	95	95	-2 / 2	Pass
1271		04/08/22	17	ASTM D1557	A-2-4	8.3	128.6	9.5	123.6	135.3	8	96	95	-2 / 2	Pass
1272		04/08/22	17	ASTM D1557	A-2-4	8.3	128.6	8.4	122.1	132.4	8	95	95	-2 / 2	Pass
1273		04/08/22	17	ASTM D1557	A-2-4	8.3	128.6	8.1	123.5	133.5	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1270	Street Subgrade: Belford Avenue, Station 62+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1271	Street Subgrade: Belford Avenue, Station 64+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1272	Street Subgrade: Belford Avenue, Station 66+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose
1273	Street Subgrade: Belford Avenue, Station 68+00	0.0	TSG	Troxler / 3430 / 23705 /	Rodriguez, Jose

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1273: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000125
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1274		04/21/22	14	ASTM D1557	A-2-4	13.0	116.6	10.4	115.3	127.3	8	99	95	-2 / 2	Fail
1275		04/21/22	14	ASTM D1557	A-2-4	13.0	116.6	11.5	111.9	124.8	8	96	95	-2 / 2	Pass
1276		04/21/22	14	ASTM D1557	A-2-4	13.0	116.6	11.5	114.0	127.1	8	98	95	-2 / 2	Pass
1277		04/21/22	14	ASTM D1557	A-2-4	13.0	116.6	13.9	111.1	126.5	8	95	95	-2 / 2	Pass
1278		04/21/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	112.2	125.3	8	96	95	-2 / 2	Pass
1279		04/21/22	14	ASTM D1557	A-2-4	13.0	116.6	11.5	111.2	124.0	8	95	95	-2 / 2	Pass
1280	1274	04/21/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	111.8	124.5	8	96	95	-2 / 2	Pass
1281		04/21/22	14	ASTM D1557	A-2-4	13.0	116.6	12.0	110.9	124.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1274	Wing Wall: Belford Avenue, 120' west of arch wall (southwest Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1275	Wing Wall: Belford Avenue, 90' west of arch wall (southwest Wing Wall)	8.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1276	Wing Wall: Belford Avenue, 60' west of arch wall (southwest Wing Wall)	9.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1277	Wing Wall: Belford Avenue, 30' west of arch wall (southwest Wing Wall)	11.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1278	Wing Wall: Belford Avenue, 120' west of arch wall (southwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1279	Wing Wall: Belford Avenue, 90' west of arch wall (southwest Wing Wall)	7.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1280	Wing Wall: Belford Avenue, 60' west of arch wall (southwest Wing Wall)	8.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1281	Wing Wall: Belford Avenue, 30' west of arch wall (southwest Wing Wall)	10.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Pass / Moisture Fail

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1281: The Contractor utilized a front-end loader and a vibrating drum compactor to place and apply compactive effort to the fill. Moisture was added with a hose attached to hydrant.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000126
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1282		04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	15.3	112.9	130.2	8	97	95	-2 / 2	Fail
1283		04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	14.5	107.1	122.6	8	92	95	-2 / 2	Fail
1284		04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	11.8	112.0	125.2	8	96	95	-2 / 2	Pass
1285	1282	04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	14.7	111.3	127.7	8	95	95	-2 / 2	Pass
1286	1283	04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	13.9	112.0	127.6	8	96	95	-2 / 2	Pass
1287		04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	10.6	114.6	126.7	8	98	95	-2 / 2	Fail
1288		04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	13.7	111.9	127.2	8	96	95	-2 / 2	Pass
1289		04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	13.8	112.0	127.5	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1282	Wing Wall: Belford Avenue, 10' west of arch wall (northwest Wing Wall)	14.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1283	Wing Wall: Belford Avenue, 30' west of arch wall (northwest Wing Wall)	10.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1284	Wing Wall: Belford Avenue, 50' west of arch wall (northwest Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1285	Wing Wall: Belford Avenue, 10' west of arch wall (northwest Wing Wall)	14.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1286	Wing Wall: Belford Avenue, 30' west of arch wall (northwest Wing Wall)	10.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1287	Wing Wall: Belford Avenue, 10' west of arch wall (northwest Wing Wall)	13.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1288	Wing Wall: Belford Avenue, 30' west of arch wall (northwest Wing Wall)	9.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1289	Wing Wall: Belford Avenue, 50' west of arch wall (northwest Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Pass / Moisture Fail

Fail: Density Fail / Moisture Pass

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000126
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1290	1287	04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	112.3	125.4	8	96	95	-2 / 2	Pass
1291		04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	10.9	114.9	127.4	8	99	95	-2 / 2	Fail
1292		04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	11.2	111.8	124.3	8	96	95	-2 / 2	Pass
1293	1291	04/22/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	112.1	124.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1290	Wing Wall: Belford Avenue, 10' west of arch wall (northwest Wing Wall)	13.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1291	Wing Wall: Belford Avenue, 30' west of arch wall (southwest Wing Wall)	9.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1292	Wing Wall: Belford Avenue, 60' west of arch wall (southwest Wing Wall)	7.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1293	Wing Wall: Belford Avenue, 30' west of arch wall (southwest Wing Wall)	9.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Pass / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1293: The Contractor utilized a loader and vibrating drum compactor to place and apply compactive effort to the fill. Moisture was added to the fill with hose attached to a hydrant.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000127
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1294		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	10.1	111.6	122.9	8	96	95	-2 / 2	Fail
1295		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	7.1	114.7	122.8	8	98	95	-2 / 2	Fail
1296		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	8.1	111.6	120.6	8	96	95	-2 / 2	Fail
1297	1294	04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	111.6	124.7	8	96	95	-2 / 2	Pass
1298	1295	04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	11.1	110.8	123.1	8	95	95	-2 / 2	Pass
1299	1296	04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	111.0	123.7	8	95	95	-2 / 2	Pass
1300		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	12.7	111.7	125.9	8	96	95	-2 / 2	Pass
1301		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	12.5	110.6	124.4	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1294	Wing Wall: Belford Avenue, 10' northwest of arch wall (northwest Wing Wall)	12.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1295	Wing Wall: Belford Avenue, 30' northwest of arch wall (northwest Wing Wall)	7.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1296	Wing Wall: Belford Avenue, 50' northwest of arch wall (northwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1297	Wing Wall: Belford Avenue, 10' northwest of arch wall (northwest Wing Wall)	12.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1298	Wing Wall: Belford Avenue, 30' northwest of arch wall (northwest Wing Wall)	7.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1299	Wing Wall: Belford Avenue, 50' northwest of arch wall (northwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1300	Inlet: Belford Avenue, Inlet 2-3, west side	7.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1301	Inlet: Belford Avenue, Inlet 2-3, north side	6.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Pass / Moisture Fail

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000127
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1302		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	12.9	110.4	124.6	8	95	95	-2 / 2	Pass
1303		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	15.0	101.0	116.1	8	87	95	-2 / 2	Fail
1304	1303	04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	13.3	109.9	124.5	8	94	95	-2 / 2	Fail
1305	1304	04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	110.5	123.0	8	95	95	-2 / 2	Pass
1306		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	14.8	103.3	118.6	8	89	95	-2 / 2	Fail
1307		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	11.0	111.0	123.2	8	95	95	-2 / 2	Pass
1308		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	12.0	110.8	124.1	8	95	95	-2 / 2	Pass
1309		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	12.8	101.6	114.6	8	87	95	-2 / 2	Fail

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1302	Inlet: Belford Avenue, Inlet 2-3, east side	5.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1303	Inlet: Belford Avenue, Inlet 2-3, south side	4.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1304	Inlet: Belford Avenue, Inlet 2-3, south side	4.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1305	Inlet: Belford Avenue, Inlet 2-3, south side	4.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1306	Wing Wall: Belford Avenue, 30' west of arch wall (southwest Wing Wall)	9.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1307	Wing Wall: Belford Avenue, 60' west of arch wall (southwest Wing Wall)	7.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1308	Wing Wall: Belford Avenue, 90' west of arch wall (southwest Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1309	Wing Wall: Belford Avenue, 120' west of arch wall (southwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Fail / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000127
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1310	1306	04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	14.1	110.7	126.3	8	95	95	-2 / 2	Pass
1311	1309	04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	12.1	111.3	124.8	8	95	95	-2 / 2	Pass
1312		04/25/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	111.5	124.1	8	96	95	-2 / 2	Pass
1313		04/25/22	19	ASTM D1557	A-2-4	9.1	125.1	7.0	115.5	123.6	8	92	95	-2 / 2	Fail
1314		04/25/22	19	ASTM D1557	A-2-4	9.1	125.1	7.5	120.0	129.0	8	96	95	-2 / 2	Pass
1315		04/25/22	19	ASTM D1557	A-2-4	9.1	125.1	5.9	118.0	125.0	8	94	95	-2 / 2	Fail
1316	1313	04/25/22	19	ASTM D1557	A-2-4	9.1	125.1	8.2	118.6	128.3	8	95	95	-2 / 2	Pass
1317	1315	04/25/22	19	ASTM D1557	A-2-4	9.1	125.1	7.1	119.5	128.0	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1310	Wing Wall: Belford Avenue, 30' west of arch wall (southwest Wing Wall)	9.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1311	Wing Wall: Belford Avenue, 120' west of arch wall (southwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1312	Wing Wall: Belford Avenue, 30' west of arch wall (southwest Wing Wall)	8.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1313	Street Subgrade: Belford Avenue, 200' east of Lynx Cat Street	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1314	Street Subgrade: Belford Avenue, 400' east of Lynx Cat Street	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1315	Street Subgrade: Belford Avenue, 600' east of Lynx Cat Street	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1316	Street Subgrade: Belford Avenue, 200' east of Lynx Cat Street	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1317	Street Subgrade: Belford Avenue, 600' east of Lynx Cat Street	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1312: The Contractor utilized a loader and vibrating drum compactor to place and apply compactive effort to the fill. Moisture was to the added to the fill with hose attached to a hydrant.

1317: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000128
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1318		04/26/22	19	ASTM D1557	A-2-4	9.1	125.1	11.1	118.3	131.4	8	95	95	-2 / 2	Pass
1319		04/26/22	19	ASTM D1557	A-2-4	9.1	125.1	13.7	118.5	134.7	8	95	95	-2 / 2	Fail
1320	1319	04/26/22	19	ASTM D1557	A-2-4	9.1	125.1	10.9	118.8	131.7	8	95	95	-2 / 2	Pass
1321		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	12.7	112.1	126.3	8	96	95	-2 / 2	Pass
1322		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	12.4	112.6	126.6	8	97	95	-2 / 2	Pass
1323		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	15.0	112.7	129.6	8	97	95	-2 / 2	Pass
1324		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	15.0	109.3	125.7	8	94	95	-2 / 2	Fail
1325	1324	04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	14.7	111.0	127.3	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1318	Street Subgrade: Belford Avenue, 20' east of Wolf Fox Street	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1319	Street Subgrade: Belford Avenue, 200' west of Wolf Fox Street	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1320	Street Subgrade: Belford Avenue, 200' west of Wolf Fox Street	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1321	Inlet: Belford Avenue, Inlet 2-3, west side	3.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1322	Inlet: Belford Avenue, Inlet 2-3, north side	2.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1323	Inlet: Belford Avenue, Inlet 2-3, east side	1.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1324	Inlet: Belford Avenue, Inlet 2-3, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1325	Inlet: Belford Avenue, Inlet 2-3, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Pass / Moisture Fail

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1320: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000128
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1326		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.9	112.0	125.3	8	96	95	-2 / 2	Pass
1327		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	10.8	111.6	123.7	8	96	95	-2 / 2	Fail
1328	1327	04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	112.1	124.8	8	96	95	-2 / 2	Pass
1329		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	13.4	110.9	125.8	8	95	95	-2 / 2	Pass
1330		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	12.2	110.5	124.0	8	95	95	-2 / 2	Pass
1331		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	12.7	111.8	126.0	8	96	95	-2 / 2	Pass
1332		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	12.5	110.1	123.9	8	94	95	-2 / 2	Fail
1333	1332	04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	12.8	113.0	127.5	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1326	Wing Wall: Belford Avenue, 110' west of arch wall (southwest Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1327	Wing Wall: Belford Avenue, 120' west of arch wall (southwest Wing Wall)	1.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1328	Wing Wall: Belford Avenue, 120' west of arch wall (southwest Wing Wall)	1.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1329	Wing Wall: Belford Avenue, 80' west of arch wall (southwest Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1330	Wing Wall: Belford Avenue, 50' west of arch wall (southwest Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1331	Wing Wall: Belford Avenue, 20' west of arch wall (southwest Wing Wall)	7.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1332	Wing Wall: Belford Avenue, 20' west of arch wall (southwest Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1333	Wing Wall: Belford Avenue, 20' West of Abutment (South West Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Pass / Moisture Fail **Fail:** Density Fail / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000128
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1334		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.0	109.6	121.7	8	94	95	-2 / 2	Fail
1335	1334	04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	111.8	124.5	8	96	95	-2 / 2	Pass
1336		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	111.7	124.4	8	96	95	-2 / 2	Pass
1337		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	110.6	123.5	8	95	95	-2 / 2	Pass
1338		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	12.5	112.1	126.1	8	96	95	-2 / 2	Pass
1339		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	12.0	105.9	118.6	8	91	95	-2 / 2	Fail
1340	1339	04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	12.1	111.5	125.0	8	96	95	-2 / 2	Pass
1341		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	111.6	124.2	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1334	Wing Wall: Belford Avenue, 90' west of arch wall (southwest Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1335	Wing Wall: Belford Avenue, 90' west of arch wall (southwest Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1336	Wing Wall: Belford Avenue, 60' west of arch wall (southwest Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1337	Wing Wall: Belford Avenue, 30' west of arch wall (southwest Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1338	Wing Wall: Belford Avenue, 80' west of arch wall (southwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1339	Wing Wall: Belford Avenue, 50' west of arch wall (southwest Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1340	Wing Wall: Belford Avenue, 90' west of arch wall (southwest Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1341	Wing Wall: Belford Avenue, 50' West of Abutment (South West Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Fail: Density Fail / Moisture Pass **Pass:** Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000128
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1342		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	111.8	124.9	8	96	95	-2 / 2	Pass
1343		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.6	107.7	120.2	8	92	95	-2 / 2	Fail
1344	1343	04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.5	110.4	123.1	8	95	95	-2 / 2	Pass
1345		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.1	110.8	123.1	8	95	95	-2 / 2	Pass
1346		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.2	109.0	121.2	8	93	95	-2 / 2	Fail
1347		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.2	110.9	123.3	8	95	95	-2 / 2	Pass
1348		04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	10.9	109.4	121.3	8	94	95	-2 / 2	Fail
1349	1346	04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	111.1	123.8	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1342	Wing Wall: Belford Avenue, 70' west of arch wall (southwest Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1343	Wing Wall: Belford Avenue, 40' west of arch wall (southwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1344	Wing Wall: Belford Avenue, 40' west of arch wall (southwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1345	Wing Wall: Belford Avenue, 10' west of arch wall (southwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1346	Wing Wall: Belford Avenue, 70' west of arch wall (southwest Wing Wall)	1.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1347	Wing Wall: Belford Avenue, 40' west of arch wall (southwest Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1348	Wing Wall: Belford Avenue, 10' west of arch wall (southwest Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1349	Wing Wall: Belford Avenue, 70' west of arch wall (southwest Wing Wall)	1.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Fail: Density Fail / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000128
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1350	1348	04/26/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	110.7	123.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1350	Wing Wall: Belford Avenue, 10' west of arch wall (southwest Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1350: The Contractor utilized a loader and vibrating drum compactor to place and apply compactive effort to the fill. Moisture was added to the fill with hose attached to a Hydrant.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000129
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1351		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	11.9	111.5	124.8	8	96	95	-2 / 2	Pass
1352		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	110.3	122.8	8	95	95	-2 / 2	Pass
1353		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	11.0	109.6	121.7	8	94	95	-2 / 2	Fail
1354		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	12.1	110.6	124.0	8	95	95	-2 / 2	Pass
1355		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	12.5	110.3	124.1	8	95	95	-2 / 2	Pass
1356	1353	04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	111.5	124.2	8	96	95	-2 / 2	Pass
1357		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	14.3	110.5	126.3	8	95	95	-2 / 2	Pass
1358		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	14.8	110.3	126.6	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1351	Wing Wall: Belford Avenue, 30' west of arch wall (southwest Wing Wall)	1.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1352	Wing Wall: Belford Avenue, 110' west of arch wall (southwest Wing Wall)	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1353	Wing Wall: Belford Avenue, 80' west of arch wall (southwest Wing Wall)	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1354	Wing Wall: Belford Avenue, 50' west of arch wall (southwest Wing Wall)	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1355	Wing Wall: Belford Avenue, 20' west of arch wall (southwest Wing Wall)	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1356	Wing Wall: Belford Avenue, 80' west of arch wall (southwest Wing Wall)	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1357	Wing Wall: Belford Avenue, 20' east of arch wall (northeast Wing Wall)	11.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1358	Wing Wall: Belford Avenue, 40' east of arch wall (northeast Wing Wall)	8.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Fail / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000129
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1359		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	7.5	115.6	124.3	8	99	95	-2 / 2	Fail
1360	1359	04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	11.5	112.9	125.9	8	97	95	-2 / 2	Pass
1361		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	14.7	111.3	127.7	8	95	95	-2 / 2	Pass
1362		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	13.3	110.2	124.9	8	95	95	-2 / 2	Pass
1363		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	12.4	104.1	117.0	8	89	95	-2 / 2	Fail
1364		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	12.6	112.3	126.4	8	96	95	-2 / 2	Pass
1365	1363	04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	12.0	111.3	124.7	8	95	95	-2 / 2	Pass
1366		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	15.3	104.9	120.9	8	90	95	-2 / 2	Fail

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1359	Wing Wall: Belford Avenue, 60' east of arch wall (northeast Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1360	Wing Wall: Belford Avenue, 60' east of arch wall (northeast Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1361	Wing Wall: Belford Avenue, 10' east of arch wall (northeast Wing Wall)	11.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1362	Wing Wall: Belford Avenue, 30' east of arch wall (northeast Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1363	Wing Wall: Belford Avenue, 10' east of arch wall (northeast Wing Wall)	10.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1364	Wing Wall: Belford Avenue, 30' east of arch wall (northeast Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1365	Wing Wall: Belford Avenue, 10' east of arch wall (northeast Wing Wall)	10.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1366	Wing Wall: Belford Avenue, 40' east of arch wall (northwest Wing Wall)	8.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000129
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Remarks	Comments
Fail: Density Pass / Moisture Fail **Pass:** Density Pass / Moisture Pass **Fail:** Density Fail / Moisture Pass **Fail:** Density Fail / Moisture Fail	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000129
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1367		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	16.0	107.6	124.8	8	92	95	-2 / 2	Fail
1368	1366	04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	14.8	111.0	127.4	8	95	95	-2 / 2	Pass
1369	1367	04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	14.5	110.9	127.0	8	95	95	-2 / 2	Pass
1370		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	14.6	112.4	128.8	8	96	95	-2 / 2	Pass
1371		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	14.7	111.0	127.3	8	95	95	-2 / 2	Pass
1372		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	12.3	110.6	124.2	8	95	95	-2 / 2	Pass
1373		04/27/22	14	ASTM D1557	A-2-4	13.0	116.6	13.7	110.7	125.9	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1367	Wing Wall: Belford Avenue, 30' east of arch wall (northwest Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1368	Wing Wall: Belford Avenue, 10' east of arch wall (northwest Wing Wall)	8.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1369	Wing Wall: Belford Avenue, 30' east of arch wall (northwest Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1370	Wing Wall: Belford Avenue, 20' east of arch wall (northeast Wing Wall)	10.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1371	Wing Wall: Belford Avenue, 60' east of arch wall (northeast Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1372	Wing Wall: Belford Avenue, 20' east of arch wall (northeast Wing Wall)	9.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1373	Wing Wall: Belford Avenue, 40' east of arch wall (northeast Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Fail / Moisture Fail

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1373: The contractor utilized a loader and a vibrating drum compactor to place and apply compactive effort to the fill. Moisture was added to the fill with a hose attached to a Hydrant.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000130
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1374		04/28/22	24	ASTM D1557	ABC	6.3	137.6	5.4	131.6	138.7	8	96	95	-2 / 2	Pass
1375		04/28/22	24	ASTM D1557	ABC	6.3	137.6	6.0	130.4	138.2	8	95	95	-2 / 2	Pass
1376		04/28/22	24	ASTM D1557	ABC	6.3	137.6	3.4	136.0	140.6	8	99	95	-2 / 2	Fail
1377		04/28/22	20	ASTM D1557	ABC-RC	12.0	116.0	8.9	113.9	124.0	8	98	95	-2 / 2	Fail
1378		04/28/22	20	ASTM D1557	ABC-RC	12.0	116.0	8.9	113.5	123.6	8	98	95	-2 / 2	Fail
1379		04/28/22	20	ASTM D1557	ABC-RC	12.0	116.0	7.5	114.3	122.9	8	99	95	-2 / 2	Fail
1380		04/28/22	20	ASTM D1557	ABC-RC	12.0	116.0	8.2	113.2	122.5	8	98	95	-2 / 2	Fail
1381		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	11.2	111.7	124.2	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1374	Street Base Course: Belford Avenue, 200' west of Wolf Fox Street, westbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1375	Street Base Course: Belford Avenue, 400' west of Wolf Fox Street, westbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1376	Street Base Course: Belford Avenue, 200' east of Lynx Cat Street, westbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1377	Street Base Course: Belford Avenue, 200' west of Lynx Cat Street, westbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1378	Street Base Course: Belford Avenue, 600' west of Lynx Cat Street, westbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1379	Street Base Course: Belford Avenue, 200' east of Badger Run Street, westbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1380	Street Base Course: Belford Avenue, 200' west of Badger Run Street, westbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1381	Street Subgrade: First Street, Center of Cul-de-sac	1.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.
Fail: Density Pass / Moisture Fail	**1380:** The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000130
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1382		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	8.7	99.7	108.4	8	86	95	-2 / 2	Fail
1383	1382	04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	11.0	113.2	125.7	8	97	95	-2 / 2	Pass
1384		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	16.4	105.4	122.7	8	90	95	-2 / 2	Fail
1385		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	14.4	105.6	120.8	8	91	95	-2 / 2	Fail
1386		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	15.9	105.3	122.0	8	90	95	-2 / 2	Fail
1387	1384	04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	13.5	111.7	126.8	8	96	95	-2 / 2	Pass
1388	1385	04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	13.4	110.5	125.3	8	95	95	-2 / 2	Pass
1389	1386	04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	13.8	110.3	125.5	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1382	Street Subgrade: First Street, Center of Cul-de-sac	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1383	Street Subgrade: First Street, Center of Cul-de-sac	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1384	Wing Wall: Belford Avenue, 20' east of arch wall (northeast Wing Wall)	7.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1385	Wing Wall: Belford Avenue, 40' east of arch wall (northeast Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1386	Wing Wall: Belford Avenue, 60' east of arch wall (northeast Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1387	Wing Wall: Belford Avenue, 20' east of arch wall (northeast Wing Wall)	7.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1388	Wing Wall: Belford Avenue, 40' east of arch wall (northeast Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1389	Wing Wall: Belford Avenue, 60' east of arch wall (northeast Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Fail / Moisture Fail

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1383: The Contractor potholed approximately two feet below subgrade and we obtained a sample (proctor) and two hand drives to be delivered to the lab.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000130
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1390		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	11.0	110.4	122.5	8	95	95	-2 / 2	Pass
1391		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	110.8	123.3	8	95	95	-2 / 2	Pass
1392		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	11.1	113.3	125.9	8	97	95	-2 / 2	Pass
1393		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	12.2	111.5	125.1	8	96	95	-2 / 2	Pass
1394		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	12.0	110.3	123.5	8	95	95	-2 / 2	Pass
1395		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	11.5	110.8	123.5	8	95	95	-2 / 2	Pass
1396		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	15.0	107.5	123.6	8	92	95	-2 / 2	Fail
1397	1396	04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	14.5	110.3	126.3	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1390	Wing Wall: Belford Avenue, 20' east of arch wall (northeast Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1391	Wing Wall: Belford Avenue, 40' east of arch wall (northeast Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1392	Wing Wall: Belford Avenue, 60' east of arch wall (northeast Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1393	Wing Wall: Belford Avenue, 60' east of arch wall (northwest Wing Wall)	7.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1394	Wing Wall: Belford Avenue, 30' east of arch wall (northwest Wing Wall)	3.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1395	Wing Wall: Belford Avenue, 10' east of arch wall (northwest Wing Wall)	6.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1396	Wing Wall: Belford Avenue, 30' east of arch wall (northwest Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1397	Wing Wall: Belford Avenue, 30' east of arch wall (northwest Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Fail / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000130
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1398		04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	14.4	105.7	120.9	8	91	95	-2 / 2	Fail
1399	1398	04/28/22	14	ASTM D1557	A-2-4	13.0	116.6	14.0	110.7	126.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1398	Wing Wall: Belford Avenue, 10' east of arch wall (northwest Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1399	Wing Wall: Belford Avenue, 10' east of arch wall (northwest Wing Wall)	5.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Fail / Moisture Pass

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1399: The contractor utilized a loader and vibrating drum compactor to place and apply compactive effort to the fill. Moisture was added to the fill with a hose attached to a Hydrant.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000131
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1400		04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	9.7	108.3	118.8	8	93	95	-2 / 2	Fail
1401		04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	10.7	109.5	121.2	8	94	95	-2 / 2	Fail
1402	1400	04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	11.2	110.6	123.0	8	95	95	-2 / 2	Pass
1403	1401	04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	111.2	124.2	8	95	95	-2 / 2	Pass
1404		04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	13.3	112.0	126.9	8	96	95	-2 / 2	Pass
1405		04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	12.8	111.6	125.9	8	96	95	-2 / 2	Pass
1406		04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	110.5	123.4	8	95	95	-2 / 2	Pass
1407		04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	11.9	107.7	120.5	8	92	95	-2 / 2	Fail

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1400	Wing Wall: Belford Avenue, 20' east of arch wall (northeast Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1401	Wing Wall: Belford Avenue, 40' east of arch wall (northeast Wing Wall)	1.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1402	Wing Wall: Belford Avenue, 20' east of arch wall (northeast Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1403	Wing Wall: Belford Avenue, 40' east of arch wall (northeast Wing Wall)	1.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1404	Wing Wall: Belford Avenue, 20' east of arch wall (northeast Wing Wall)	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1405	Wing Wall: Belford Avenue, 60' east of arch wall (northeast Wing Wall)	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1406	Wing Wall: Belford Avenue, 10' west of arch wall (northwest Wing Wall)	4.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1407	Wing Wall: Belford Avenue, 30' west of arch wall (northwest Wing Wall)	1.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Fail / Moisture Fail

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000131
Report Date: 05/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1408	1407	04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	11.5	110.3	123.0	8	95	95	-2 / 2	Pass
1409		04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	108.0	120.6	8	93	95	-2 / 2	Fail
1410	1409	04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	12.0	111.1	124.4	8	95	95	-2 / 2	Pass
1411		04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	11.1	111.0	123.3	8	95	95	-2 / 2	Pass
1412		04/29/22	14	ASTM D1557	A-2-4	13.0	116.6	12.3	110.9	124.5	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1408	Wing Wall: Belford Avenue, 30' west of arch wall (northwest Wing Wall)	1.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1409	Wing Wall: Belford Avenue, 10' west of arch wall (northwest Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1410	Wing Wall: Belford Avenue, 10' west of arch wall (northwest Wing Wall)	2.0	BTOW	Instrotek / 3500 / 4121 /	Boling, Bryan
1411	Wing Wall: Belford Avenue, 10' west of arch wall (northwest Wing Wall)	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1412	Wing Wall: Belford Avenue, 30' west of arch wall (northwest Wing Wall)	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1412: The contractor utilized a loader and a vibrating drum compactor to place and apply compactive effort to the fill. Moisture was added to the fill with a hose attached to a Hydrant.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000132
Report Date: 05/04/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1413		04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	14.4	111.8	127.9	8	96	95	-2 / 2	Pass
1414		04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	14.6	110.4	126.5	8	95	95	-2 / 2	Pass
1415		04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	13.9	110.1	125.4	8	94	95	-2 / 2	Fail
1416	1415	04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	14.2	111.9	127.8	8	96	95	-2 / 2	Pass
1417		04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	13.1	112.3	127.0	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1413	Wing Wall: Belford Avenue, 125' west of arch, (southwest wingwall)	8.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1414	Wing Wall: Belford Avenue, 80' west of arch, (southwest wingwall)	12.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1415	Wing Wall: Belford Avenue, 25' west of arch, (southwest wingwall)	17.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1416	Wing Wall: Belford Avenue, 25' west of arch, (southwest wingwall)	17.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1417	Wing Wall: Belford Avenue, 50' west of arch, (southwest wingwall)	15.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1417: The Contractor utilized a loader and a drum roller to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000133
Report Date: 05/04/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1418		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	12.6	112.6	126.8	8	97	95	-2 / 2	Pass
1419		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	14.5	110.3	126.3	8	95	95	-2 / 2	Pass
1420		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	13.2	112.7	127.6	8	97	95	-2 / 2	Pass
1421		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.9	127.3	8	96	95	-2 / 2	Pass
1422		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	14.6	110.2	126.3	8	95	95	-2 / 2	Pass
1423		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	14.5	109.6	125.5	8	94	95	-2 / 2	Fail
1424	1423	04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	14.2	111.6	127.4	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1418	Wing Wall: Belford Avenue, 125' west of arch, (southwest wingwall)	6.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1419	Wing Wall: Belford Avenue, 80' west of arch, (southwest wingwall)	10.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1420	Wing Wall: Belford Avenue, 50' west of arch, (southwest wingwall)	13.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1421	Wing Wall: Belford Avenue, 20' west of arch, (southwest wingwall)	15.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1422	Wing Wall: Belford Avenue, 10' east of arch, (northeast wingwall)	12.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1423	Wing Wall: Belford Avenue, 30' east of arch, (northeast wingwall)	7.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1424	Wing Wall: Belford Avenue, 30' east of arch, (northeast wingwall)	7.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.
Fail: Density Fail / Moisture Pass	**1424:** The Contractor utilized a loader and a drum roller to place and apply compactive effort to the fill. Moisture was added to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000134
Report Date: 05/04/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1425		04/20/22	14	ASTM D1557	A-2-4	13.0	116.6	14.3	110.8	126.6	8	95	95	-2 / 2	Pass
1426		04/20/22	14	ASTM D1557	A-2-4	13.0	116.6	13.2	112.1	126.9	8	96	95	-2 / 2	Pass
1427		04/20/22	14	ASTM D1557	A-2-4	13.0	116.6	13.1	112.3	127.0	8	96	95	-2 / 2	Pass
1428		04/20/22	14	ASTM D1557	A-2-4	13.0	116.6	14.3	111.7	127.7	8	96	95	-2 / 2	Pass
1429		04/20/22	14	ASTM D1557	A-2-4	13.0	116.6	14.5	110.6	126.6	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1425	Wing Wall: Belford Avenue, 20' east of arch, (northeast wingwall)	10.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1426	Wing Wall: Belford Avenue, 40' east of arch, (northeast wingwall)	4.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1427	Wing Wall: Belford Avenue, 25' west of arch, (southwest wingwall)	13.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1428	Wing Wall: Belford Avenue, 70' west of arch, (southwest wingwall)	11.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1429	Wing Wall: Belford Avenue, 120' west of arch, (southwest wingwall)	6.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1429: The Contractor utilized a loader and a drum roller to place and apply compactive effort to the fill. Moisture was added to the fill.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000135
Revised
Report Date: 05/04/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1413		04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	14.4	111.8	127.9	8	96	95	-2 / 2	Pass
1414		04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	14.6	110.4	126.5	8	95	95	-2 / 2	Pass
1415		04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	13.9	110.1	125.4	8	94	95	-2 / 2	Fail
1416	1415	04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	14.2	111.9	127.8	8	96	95	-2 / 2	Pass
1417		04/18/22	14	ASTM D1557	A-2-4	13.0	116.6	13.1	112.3	127.0	8	96	95	-2 / 2	Pass
1418		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	12.6	112.6	126.8	8	97	95	-2 / 2	Pass
1419		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	14.5	110.3	126.3	8	95	95	-2 / 2	Pass
1420		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	13.2	112.7	127.6	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1413	Wing Wall: Belford Avenue, 125' west of arch, (southeast wingwall)	2.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1414	Wing Wall: Belford Avenue, 80' west of arch, (southeast wingwall)	12.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1415	Wing Wall: Belford Avenue, 25' west of arch, (southeast wingwall)	17.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1416	Wing Wall: Belford Avenue, 25' west of arch, (southeast wingwall)	17.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1417	Wing Wall: Belford Avenue, 50' west of arch, (southeast wingwall)	15.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1418	Wing Wall: Belford Avenue, 125' west of arch, (southeast wingwall)	4.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1419	Wing Wall: Belford Avenue, 80' west of arch, (southeast wingwall)	8.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason
1420	Wing Wall: Belford Avenue, 50' west of arch, (southeast wingwall)	13.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.
Fail: Density Fail / Moisture Pass	**1417:** The Contractor utilized a loader and a drum roller to place and apply compactive effort to the fill. Moisture was added to the fill with a water truck.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000135
Revised
Report Date: 05/04/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1421		04/19/22	14	ASTM D1557	A-2-4	13.0	116.6	13.8	111.9	127.3	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1421	Wing Wall: Belford Avenue, 20' west of arch, (southeast wingwall)	6.0	BTOW	Troxler / 3500 / 3585 /	Zegan, Jason

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000136
Report Date: 05/11/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1430	1376	05/03/22	24	ASTM D1557	ABC	6.3	137.6	5.8	132.0	139.7	8	96	95	-2 / 2	Pass
1431	1377	05/03/22	20	ASTM D1557	ABC-RC	12.0	116.0	12.0	112.0	125.4	8	97	95	-2 / 2	Pass
1432	1378	05/03/22	20	ASTM D1557	ABC-RC	12.0	116.0	11.7	111.2	124.2	8	96	95	-2 / 2	Pass
1433	1379	05/03/22	20	ASTM D1557	ABC-RC	12.0	116.0	11.6	110.8	123.7	8	96	95	-2 / 2	Pass
1434	1380	05/03/22	20	ASTM D1557	ABC-RC	12.0	116.0	13.3	111.4	126.2	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1430	Street Base Course: Belford Avenue, 200' east of Lynx Cat Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1431	Street Base Course: Belford Avenue, 200' west of Lynx Cat Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1432	Street Base Course: Belford Avenue, 600' west of Lynx Cat Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1433	Street Base Course: Belford Avenue, 200' east of Badger Run Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1434	Street Base Course: Belford Avenue, 200' west of Badger Run Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1434: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000137
Report Date: 05/11/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1435		05/04/22	14	ASTM D1557	A-2-4	13.0	116.6	13.1	111.8	126.4	8	96	95	-2 / 2	Pass
1436		05/04/22	14	ASTM D1557	A-2-4	13.0	116.6	12.7	112.5	126.8	8	96	95	-2 / 2	Pass
1437		05/04/22	14	ASTM D1557	A-2-4	13.0	116.6	13.1	111.3	125.9	8	95	95	-2 / 2	Pass
1438		05/04/22	14	ASTM D1557	A-2-4	13.0	116.6	13.2	112.6	127.5	8	97	95	-2 / 2	Pass
1439		05/04/22	14	ASTM D1557	A-2-4	13.0	116.6	13.7	110.6	125.8	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1435	Storm Sewer Manhole: Belford Avenue, STMH 1, Manhole Clean-out	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1436	Storm Sewer Manhole: Belford Avenue, STMH 1-3, Manhole Clean-out	3.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1437	Storm Sewer Manhole: Belford Avenue, STMH 1-3, Manhole Clean-out	2.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1438	Storm Sewer Manhole: Belford Avenue, STMH 1-3, Manhole Clean-out	1.0	BSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1439	Storm Sewer Manhole: Belford Avenue, STMH 1-3, Manhole Clean-out	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1439: The Contractor, Iron Woman, utilized a front-end loader to place fill and a vibrating drum compactor to apply compactive effort. Moisture was added with hose attached to a Hydrant.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000138
Report Date: 05/11/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1440		05/05/22	24	ASTM D1557	ABC	6.3	137.6	7.9	133.1	143.6	8	97	95	-2 / 2	Pass
1441		05/05/22	24	ASTM D1557	ABC	6.3	137.6	7.1	132.5	141.9	8	96	95	-2 / 2	Pass
1442		05/05/22	24	ASTM D1557	ABC	6.3	137.6	6.3	134.0	142.4	8	97	95	-2 / 2	Pass
1443		05/05/22	24	ASTM D1557	ABC	6.3	137.6	6.5	132.3	140.9	8	96	95	-2 / 2	Pass
1444		05/05/22	24	ASTM D1557	ABC	6.3	137.6	6.5	131.7	140.3	8	96	95	-2 / 2	Pass
1445		05/05/22	20	ASTM D1557	ABC-RC	12.0	116.0	12.3	111.8	125.6	8	96	95	-2 / 2	Pass
1446		05/05/22	20	ASTM D1557	ABC-RC	12.0	116.0	12.6	112.9	127.1	8	97	95	-2 / 2	Pass
1447		05/05/22	20	ASTM D1557	ABC-RC	12.0	116.0	13.6	111.5	126.7	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1440	Sidewalk: Belford Avenue, 200' west of Wolf Fox Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1441	Sidewalk: Belford Avenue, 400' west of Wolf Fox Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1442	Sidewalk: Belford Avenue, 600' west of Wolf Fox Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1443	Sidewalk: Belford Avenue, 400' east of Lynx Cat Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1444	Sidewalk: Belford Avenue, 200' east of Lynx Cat Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1445	Sidewalk: Belford Avenue, 200' west of Lynx Cat Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1446	Sidewalk: Belford Avenue, 400' west of Lynx Cat Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1447	Sidewalk: Belford Avenue, 600' west of Lynx Cat Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000138
Report Date: 05/11/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1448		05/05/22	20	ASTM D1557	ABC-RC	12.0	116.0	13.1	111.7	126.3	8	96	95	-2 / 2	Pass
1449		05/05/22	20	ASTM D1557	ABC-RC	12.0	116.0	12.0	110.7	124.0	8	95	95	-2 / 2	Pass
1450		05/05/22	20	ASTM D1557	ABC-RC	12.0	116.0	12.5	111.2	125.1	8	96	95	-2 / 2	Pass
1451		05/05/22	14	ASTM D1557	A-2-4	13.0	116.6	11.8	111.7	124.9	8	96	95	-2 / 2	Pass
1452		05/05/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	112.3	125.1	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1448	Sidewalk: Belford Avenue, 400' east of Badger Run Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1449	Sidewalk: Belford Avenue, 200' east of Badger Run Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1450	Sidewalk: Belford Avenue, 200' west of Badger Run Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1451	Street Subgrade: Belford Avenue, 400' west of Badger Run Street, eastbound	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1452	Street Subgrade: Belford Avenue, 600' west of Badger Run Street, eastbound	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1452: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000139
Report Date: 05/11/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1453		05/06/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.1	111.9	123.2	8	96	95	-2 / 2	Pass
1454		05/06/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.3	112.1	123.6	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1453	Street Base Course: Belford Avenue, 400' west of Badger Run Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1454	Street Base Course: Belford Avenue, 600' west of Badger Run Street, eastbound	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1454: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000140
Report Date: 05/26/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1455		05/17/22	20	ASTM D1557	ABC-RC	12.0	116.0	9.2	112.7	123.1	8	97	95	-2 / 2	Fail
1456	1455	05/17/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.3	112.7	124.3	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1455	Street Base Course: Belford Avenue, 200' east of Badger Run Street, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1456	Street Base Course: Belford Avenue, 200' east of Badger Run Street, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Pass / Moisture Fail

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1456: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000141
Report Date: 05/26/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1457		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.0	111.1	122.2	8	96	95	-2 / 2	Pass
1458		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.6	111.7	123.5	8	96	95	-2 / 2	Pass
1459		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.6	111.7	123.5	8	96	95	-2 / 2	Pass
1460		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	12.0	110.3	123.5	8	95	95	-2 / 2	Pass
1461		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	11.7	110.2	123.1	8	95	95	-2 / 2	Pass
1462		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	12.2	110.6	124.1	8	95	95	-2 / 2	Pass
1463		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.8	112.7	124.9	8	97	95	-2 / 2	Pass
1464		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	11.2	109.8	122.1	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1457	Street Base Course: Belford Avenue, 100' west of Lynx Cat Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1458	Street Base Course: Belford Avenue, 300' west of Lynx Cat Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1459	Street Base Course: Belford Avenue, 500' west of Lynx Cat Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1460	Street Base Course: Belford Avenue, 700' west of Lynx Cat Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1461	Street Base Course: Belford Avenue, 550' east of Badger Run Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1462	Street Base Course: Belford Avenue, 350' east of Badger Run Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1463	Street Base Course: Belford Avenue, 150' east of Badger Run Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1464	Street Base Course: Belford Avenue, 50' west of Badger Run Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000141
Report Date: 05/26/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1465		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.8	112.6	124.8	8	97	95	-2 / 2	Pass
1466		05/23/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.1	111.2	122.4	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1465	Street Base Course: Belford Avenue, 250' west of Badger Run Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1466	Street Base Course: Belford Avenue, 450' west of Badger Run Street, eastbound Lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1466: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000142
Report Date: 05/26/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1467		05/24/22	22	ASTM D1557	ABC	5.8	138.6	5.0	133.6	140.3	8	96	95	-2 / 2	Pass
1468		05/24/22	22	ASTM D1557	ABC	5.8	138.6	5.0	133.3	140.0	8	96	95	-2 / 2	Pass
1469		05/24/22	22	ASTM D1557	ABC	5.8	138.6	5.3	134.5	141.6	8	97	95	-2 / 2	Pass
1470		05/24/22	22	ASTM D1557	ABC	5.8	138.6	5.5	133.4	140.7	8	96	95	-2 / 2	Pass
1471		05/24/22	22	ASTM D1557	ABC	5.8	138.6	5.8	132.8	140.5	8	96	95	-2 / 2	Pass
1472		05/24/22	20	ASTM D1557	ABC-RC	12.0	116.0	13.9	112.6	128.3	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1467	Street Base Course: Belford Avenue, 50' east of Lynx Cat Street, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1468	Street Base Course: Belford Avenue, 250' east of Lynx Cat Street, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1469	Street Base Course: Belford Avenue, 450' east of Lynx Cat Street, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1470	Street Base Course: Belford Avenue, 500' west of Wolf Fox Street, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1471	Street Base Course: Belford Avenue, 300' west of Wolf Fox Street, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1472	Street Base Course: Belford Avenue, 100' west of Wolf Fox Street, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. **1472:** The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000143
Report Date: 05/26/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1473		05/25/22	09	ASTM D698	A-6	18.5	106.9	19.5	102.5	122.5	8	96	95	0 / 4	Pass
1474		05/25/22	09	ASTM D698	A-6	18.5	106.9	19.7	101.6	121.6	8	95	95	0 / 4	Pass
1475		05/25/22	09	ASTM D698	A-6	18.5	106.9	19.8	102.1	122.3	8	96	95	0 / 4	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1473	Inlet: Belford Avenue, Inlet 1-1	2.0	BSG	Instrotek / 3500 / 3147 /	Candelarie, Joey
1474	Inlet: Belford Avenue, Inlet 1-1	1.0	BSG	Instrotek / 3500 / 3147 /	Candelarie, Joey
1475	Inlet: Belford Avenue, Inlet 1-1	0.0	BSG	Instrotek / 3500 / 3147 /	Candelarie, Joey

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1475: The Contractor Iron woman removed saturated fill from the area. Once the saturated fill was removed from the area the bottom was probed. The Contractor utilized a wheel attached to a backhoe to place and apply compactive effort to the fill. Fill was processed prior to placement by mixing moist fill with dry fill by a loader. The Contractor also utilized a jumping jack to apply additional compactive effort. The Contractor stated that void under Inlet top would have flow fill placed the flowing day.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000144
Report Date: 05/31/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1483		05/11/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.4	114.7	126.6	8	99	95	-2 / 2	Pass
1484		05/11/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.3	112.5	124.1	8	97	95	-2 / 2	Pass
1485		05/11/22	20	ASTM D1557	ABC-RC	12.0	116.0	11.0	113.0	125.4	8	97	95	-2 / 2	Pass
1486		05/11/22	20	ASTM D1557	ABC-RC	12.0	116.0	10.8	112.9	125.1	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1483	Curb and Gutter: Belford Avenue, northbound. STA: 51+75	0.0	TBC	Troxler / 3430 / 36855 /	Granato, Michael
1484	Curb and Gutter: Belford Avenue, northbound. STA: 49+25	0.0	TBC	Troxler / 3430 / 36855 /	Granato, Michael
1485	Curb and Gutter: Belford Avenue, northbound. STA: 46+75	0.0	TBC	Troxler / 3430 / 36855 /	Granato, Michael
1486	Curb and Gutter: Belford Avenue, northbound. STA: 44+25	0.0	TBC	Troxler / 3430 / 36855 /	Granato, Michael

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1486: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000145
Report Date: 05/31/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1476		05/26/22	24	ASTM D1557	ABC	6.3	137.6	8.2	112.0	121.2	8	81	95	-2 / 2	Fail
1477	1476	05/26/22	24	ASTM D1557	ABC	6.3	137.6	9.2	110.9	121.1	8	81	95	-2 / 2	Fail
1478		05/26/22	19	ASTM D1557	A-2-4	9.1	125.1	9.5	109.5	119.9	8	88	95	-2 / 2	Fail
1479	1478	05/26/22	19	ASTM D1557	A-2-4	9.1	125.1	10.9	120.3	133.4	8	96	95	-2 / 2	Pass
1480		05/26/22	19	ASTM D1557	A-2-4	9.1	125.1	9.1	118.3	129.1	8	95	95	-2 / 2	Pass
1481		05/26/22	19	ASTM D1557	A-2-4	9.1	125.1	10.2	119.4	131.6	8	95	95	-2 / 2	Pass
1482		05/26/22	19	ASTM D1557	A-2-4	9.1	125.1	10.9	118.3	131.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1476	Street Base Course: Belford Avenue, 5' west of Inlet 1-1, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1477	Street Base Course: Belford Avenue, 5' west of Inlet 1-1, eastbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1478	Street Subgrade: North 1st Street, 200' north of Dogwood Avenue, northbound lane	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1479	Street Subgrade: North 1st Street, 200' north of Dogwood Avenue, northbound lane	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1480	Street Subgrade: North 1st Street, 400' north of Dogwood Avenue, southbound lane	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1481	Street Subgrade: North 1st Street, 600' north of Dogwood Avenue, northbound lane	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1482	Street Subgrade: North 1st Street, 800' north of Dogwood Avenue, southbound lane	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Fail: Density Fail / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.
Fail: Density Fail / Moisture Fail	**1477:** The Contractor, Schmidt, and Parker's Inspector, Kevin, are aware of the failing test. Parkers Inspector has given the OK to the Contractor to move forward and place asphalt.
Pass: Density Pass / Moisture Pass	**1482:** The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000146
Report Date: 06/09/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1487		06/02/22	19	ASTM D1557	A-2-4	9.1	125.1	6.6	121.0	129.0	8	97	95	-2 / 2	Fail
1488		06/02/22	19	ASTM D1557	A-2-4	9.1	125.1	4.4	122.1	127.5	8	98	95	-2 / 2	Fail
1489	1487	06/02/22	19	ASTM D1557	A-2-4	9.1	125.1	7.8	119.8	129.1	8	96	95	-2 / 2	Pass
1490	1488	06/02/22	19	ASTM D1557	A-2-4	9.1	125.1	7.9	120.1	129.6	8	96	95	-2 / 2	Pass
1491		06/06/22	22	ASTM D1557	ABC	5.8	138.6	6.8	131.0	139.9	8	95	95	-2 / 2	Pass
1492		06/06/22	22	ASTM D1557	ABC	5.8	138.6	8.0	126.0	136.1	8	91	95	-2 / 2	Fail
1493	1492	06/06/22	22	ASTM D1557	ABC	5.8	138.6	7.3	131.3	140.9	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1487	Street Subgrade: North 1st Street, 200' north of East Elm Avenue, southbound lane	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1488	Street Subgrade: North 1st Street, 400' north of East Elm Avenue, northbound lane	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1489	Street Subgrade: North 1st Street, 200' north of East Elm Avenue, southbound lane	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1490	Street Subgrade: North 1st Street, 400' north of East Elm Avenue, northbound lane	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1491	Street Base Course: North 1st Street, 600' north of East Elm Avenue, southbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1492	Street Base Course: North 1st Street, 800' north of East Elm Avenue, northbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1493	Street Base Course: North 1st Street, 800' north of East Elm Avenue, northbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Pass / Moisture Fail

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1493: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000147
Report Date: 06/16/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1494		06/07/22	22	ASTM D1557	ABC	5.8	138.6	6.7	116.6	124.4	8	84	95	-2 / 2	Fail
1495	1494	06/07/22	22	ASTM D1557	ABC	5.8	138.6	5.6	119.2	125.9	8	86	95	-2 / 2	Fail
1496	1495	06/07/22	22	ASTM D1557	ABC	5.8	138.6	5.5	122.7	129.4	8	89	95	-2 / 2	Fail

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1494	Street Base Course: North 1st Street, center of Cul-de-sac	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1495	Street Base Course: North 1st Street, center of Cul-de-sac	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1496	Street Base Course: North 1st Street, center of Cul-de-sac	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1496: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000148
Report Date: 06/16/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1497	1496	06/08/22	22	ASTM D1557	ABC	5.8	138.6	6.7	124.8	133.2	8	90	95	-2 / 2	Fail
1498	1497	06/08/22	22	ASTM D1557	ABC	5.8	138.6	5.1	123.0	129.3	8	89	95	-2 / 2	Fail
1499	1498	06/08/22	22	ASTM D1557	ABC	5.8	138.6	6.9	131.9	141.0	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1497	Street Base Course: North 1st Street, center of Cul-de-sac	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1498	Street Base Course: North 1st Street, center of Cul-de-sac	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1499	Street Base Course: North 1st Street, center of Cul-de-sac	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Fail / Moisture Pass

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1499: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000149
Report Date: 06/16/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1500		06/09/22	26	ASTM D1557	ABC-RC	11.3	119.7	9.9	114.8	126.2	8	96	95	-2 / 2	Pass
1501		06/09/22	26	ASTM D1557	ABC-RC	11.3	119.7	9.6	115.2	126.3	8	96	95	-2 / 2	Pass
1502		06/09/22	26	ASTM D1557	ABC-RC	11.3	119.7	10.5	113.9	125.9	8	95	95	-2 / 2	Pass
1503		06/09/22	26	ASTM D1557	ABC-RC	11.3	119.7	11.4	113.7	126.7	8	95	95	-2 / 2	Pass
1504		06/09/22	26	ASTM D1557	ABC-RC	11.3	119.7	9.7	114.9	126.0	8	96	95	-2 / 2	Pass
1505		06/09/22	26	ASTM D1557	ABC-RC	11.3	119.7	9.8	115.4	126.7	8	96	95	-2 / 2	Pass
1506		06/09/22	26	ASTM D1557	ABC-RC	11.3	119.7	11.1	114.1	126.8	8	95	95	-2 / 2	Pass
1507		06/09/22	26	ASTM D1557	ABC-RC	11.3	119.7	9.8	114.1	125.3	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1500	Street Base Course: North First Street, 250' north of Dogwood Avenue, southbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1501	Street Base Course: North First Street, 500' north of Dogwood Avenue, northbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1502	Street Base Course: North First Street, 750' north of Dogwood Avenue, southbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1503	Street Base Course: North First Street, 1000' north of Dogwood Avenue, northbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1504	Street Base Course: North First Street, 250' north of East Elm Avenue, southbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1505	Street Base Course: North First Street, 500' north of East Elm Avenue, northbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1506	Street Base Course: North First Street, 750' north of East Elm Avenue, southbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1507	Street Base Course: North First Street, 1000' north of East Elm Avenue, northbound lane	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Fill Testing

Report #: FT-000149
Report Date: 06/16/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000149
Report Date: 06/16/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1508		06/09/22	26	ASTM D1557	ABC-RC	11.3	119.7	11.4	114.6	127.7	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1508	Street Base Course: North First Street, center of cul-de-sac	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1508: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
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Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000150
Report Date: 06/20/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1509		06/15/22	14	ASTM D1557	A-2-4	13.0	116.6	10.3	114.2	126.0	8	98	95	-2 / 2	Fail
1510		06/15/22	14	ASTM D1557	A-2-4	13.0	116.6	9.9	119.1	130.9	8	102	95	-2 / 2	Fail
1511		06/15/22	14	ASTM D1557	A-2-4	13.0	116.6	10.7	114.0	126.2	8	98	95	-2 / 2	Fail
1512		06/15/22	14	ASTM D1557	A-2-4	13.0	116.6	12.1	112.3	125.9	8	96	95	-2 / 2	Pass
1513	1509	06/15/22	14	ASTM D1557	A-2-4	13.0	116.6	12.5	110.3	124.1	8	95	95	-2 / 2	Pass
1514	1510	06/15/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	111.3	124.3	8	95	95	-2 / 2	Pass
1515	1511	06/15/22	14	ASTM D1557	A-2-4	13.0	116.6	11.1	112.3	124.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1509	Sidewalk: Belford Avenue, 50' east of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1510	Sidewalk: Belford Avenue, 50' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1511	Sidewalk: Belford Avenue, 300' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1512	Sidewalk: Belford Avenue, 550' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1513	Sidewalk: Belford Avenue, 50' east of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1514	Sidewalk: Belford Avenue, 50' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1515	Sidewalk: Belford Avenue, 300' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Pass / Moisture Fail

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1515: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000151
Report Date: 06/20/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1516		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	12.4	110.3	124.0	8	95	95	-2 / 2	Pass
1517		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	10.2	107.9	118.9	8	93	95	-2 / 2	Fail
1518		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	9.2	108.0	117.9	8	93	95	-2 / 2	Fail
1519		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	12.8	110.2	124.3	8	95	95	-2 / 2	Pass
1520		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	110.8	123.8	8	95	95	-2 / 2	Pass
1521		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	112.1	124.9	8	96	95	-2 / 2	Pass
1522		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	10.8	114.1	126.4	8	98	95	-2 / 2	Fail
1523		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	111.4	124.0	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1516	Sidewalk: Belford Avenue, 600' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1517	Sidewalk: Belford Avenue, 350' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1518	Sidewalk: Belford Avenue, 100' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1519	Sidewalk: Belford Avenue, 50' east of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1520	Sidewalk: Belford Avenue, 300' east of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1521	Sidewalk: Belford Avenue, 550' east of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1522	Sidewalk: Belford Avenue, 400' west of Lynx Cat Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1523	Sidewalk: Belford Avenue, 150' west of Lynx Cat Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Fail

Fail: Density Pass / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000151
Report Date: 06/20/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1524	1517	06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	110.9	123.4	8	95	95	-2 / 2	Pass
1525	1518	06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	12.6	111.5	125.5	8	96	95	-2 / 2	Pass
1526	1522	06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	11.5	111.3	124.1	8	95	95	-2 / 2	Pass
1527		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	11.0	112.2	124.5	8	96	95	-2 / 2	Pass
1528		06/16/22	17	ASTM D1557	A-2-4	8.3	128.6	6.3	116.5	123.8	8	91	95	-2 / 2	Fail
1529		06/16/22	17	ASTM D1557	A-2-4	8.3	128.6	9.5	118.4	129.6	8	92	95	-2 / 2	Fail
1530		06/16/22	17	ASTM D1557	A-2-4	8.3	128.6	7.8	122.5	132.1	8	95	95	-2 / 2	Pass
1531		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	11.4	111.1	123.8	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1524	Sidewalk: Belford Avenue, 350' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1525	Sidewalk: Belford Avenue, 100' west of Badger Run Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1526	Sidewalk: Belford Avenue, 400' west of Lynx Cat Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1527	Sidewalk: Belford Avenue, 50' east of Lynx Cat Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1528	Sidewalk: Belford Avenue, 300' east of Lynx Cat Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1529	Sidewalk: Belford Avenue, 550' east of Lynx Cat Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1530	Sidewalk: Belford Avenue, 550' west of Wolf Fox Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1531	Sidewalk: Belford Avenue, 300' west of Wolf Fox Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass **Fail:** Density Fail / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000151
Report Date: 06/20/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1532		06/16/22	14	ASTM D1557	A-2-4	13.0	116.6	11.7	111.6	124.7	8	96	95	-2 / 2	Pass
1533	1528	06/16/22	17	ASTM D1557	A-2-4	8.3	128.6	7.8	121.6	131.1	8	95	95	-2 / 2	Pass
1534	1529	06/16/22	17	ASTM D1557	A-2-4	8.3	128.6	8.1	122.0	131.9	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1532	Sidewalk: Belford Avenue, 50' west of Wolf Fox Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1533	Sidewalk: Belford Avenue, 300' east of Lynx Cat Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1534	Sidewalk: Belford Avenue, 550' east of Lynx Cat Street, south side	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1534: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000152
Report Date: 06/28/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1535		06/17/22	23	ASTM D1557	ABC	4.7	136.2	4.2	128.8	134.2	8	95	95	-2 / 2	Pass
1536		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.2	130.6	134.8	8	96	95	-2 / 2	Pass
1537		06/17/22	23	ASTM D1557	ABC	4.7	136.2	2.8	131.4	135.1	8	96	95	-2 / 2	Pass
1538		06/17/22	23	ASTM D1557	ABC	4.7	136.2	2.8	130.3	133.9	8	96	95	-2 / 2	Pass
1539		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.3	129.1	133.4	8	95	95	-2 / 2	Pass
1540		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.6	129.5	134.2	8	95	95	-2 / 2	Pass
1541		06/17/22	23	ASTM D1557	ABC	4.7	136.2	2.9	130.4	134.2	8	96	95	-2 / 2	Pass
1542		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.1	129.8	133.8	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1535	Street Base Course: Belford Avenue, Station 77+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1536	Street Base Course: Belford Avenue, Station 74+50, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1537	Street Base Course: Belford Avenue, Station 72+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1538	Street Base Course: Belford Avenue, Station 69+50, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1539	Street Base Course: Belford Avenue, Station 67+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1540	Street Base Course: Belford Avenue, Station 64+50, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1541	Street Base Course: Belford Avenue, Station 62+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1542	Street Base Course: Belford Avenue, Station 59+50, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000152
Report Date: 06/28/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1543		06/17/22	23	ASTM D1557	ABC	4.7	136.2	2.7	131.2	134.7	8	96	95	-2 / 2	Pass
1544		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.7	129.8	134.6	8	95	95	-2 / 2	Pass
1545		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.5	128.9	133.4	8	95	95	-2 / 2	Pass
1546		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.8	129.2	134.1	8	95	95	-2 / 2	Pass
1547		06/17/22	23	ASTM D1557	ABC	4.7	136.2	2.9	130.4	134.2	8	96	95	-2 / 2	Pass
1548		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.3	129.2	133.5	8	95	95	-2 / 2	Pass
1549		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.2	130.1	134.3	8	96	95	-2 / 2	Pass
1550		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.6	129.5	134.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1543	Street Base Course: Belford Avenue, Station 57+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1544	Street Base Course: Belford Avenue, Station 54+50, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1545	Street Base Course: Belford Avenue, Station 52+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1546	Street Base Course: Belford Avenue, Station 49+50, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1547	Street Base Course: Belford Avenue, Station 47+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1548	Street Base Course: Belford Avenue, Station 44+50, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1549	Street Base Course: Belford Avenue, Station 42+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1550	Street Base Course: Belford Avenue, Station 39+50, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks	Comments
Pass: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Fill Testing

Report #: FT-000152
Report Date: 06/28/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1551		06/17/22	23	ASTM D1557	ABC	4.7	136.2	2.7	131.4	134.9	8	96	95	-2 / 2	Pass
1552		06/17/22	23	ASTM D1557	ABC	4.7	136.2	3.0	131.0	134.9	8	96	95	-2 / 2	Pass
1553		06/17/22	23	ASTM D1557	ABC	4.7	136.2	2.8	130.6	134.3	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1551	Street Base Course: Belford Avenue, Station 37+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1552	Street Base Course: Belford Avenue, Station 34+50, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan
1553	Street Base Course: Belford Avenue, Station 32+00, Median	0.0	TBC	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1553: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Fill Testing

Report #: FT-000153
Report Date: 06/28/2022
Test Method: ASTM D 6938

Client:
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c/o Clifton Larson Allen
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Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1554		06/20/22	14	ASTM D1557	A-2-4	13.0	116.6	8.0	111.8	120.7	8	96	95	-2 / 2	Fail
1555		06/20/22	14	ASTM D1557	A-2-4	13.0	116.6	7.9	109.5	118.2	8	94	95	-2 / 2	Fail
1556		06/20/22	14	ASTM D1557	A-2-4	13.0	116.6	7.5	110.4	118.7	8	95	95	-2 / 2	Fail
1557	1554	06/20/22	14	ASTM D1557	A-2-4	13.0	116.6	9.8	109.5	120.2	8	94	95	-2 / 2	Fail
1558	1555	06/20/22	14	ASTM D1557	A-2-4	13.0	116.6	11.0	110.8	123.0	8	95	95	-2 / 2	Pass
1559	1556	06/20/22	14	ASTM D1557	A-2-4	13.0	116.6	11.8	111.7	124.9	8	96	95	-2 / 2	Pass
1560	1557	06/20/22	14	ASTM D1557	A-2-4	13.0	116.6	11.3	112.1	124.8	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1554	Sidewalk: Belford Avenue, 600' west of Badger Run Street, south sidewalk	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1555	Sidewalk: Belford Avenue, 400' west of Badger Run Street, south sidewalk	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1556	Sidewalk: Belford Avenue, 200' west of Badger Run Street, south sidewalk	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1557	Sidewalk: Belford Avenue, 600' west of Badger Run Street, south sidewalk	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1558	Sidewalk: Belford Avenue, 400' west of Badger Run Street, south sidewalk	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1559	Sidewalk: Belford Avenue, 200' west of Badger Run Street, south sidewalk	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan
1560	Sidewalk: Belford Avenue, 600' west of Badger Run Street, south sidewalk	0.0	TSG	Instrotek / 3500 / 4121 /	Boling, Bryan

Remarks

Fail: Density Pass / Moisture Fail

Fail: Density Fail / Moisture Fail

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1560: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000154
Report Date: 07/05/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1561		05/12/22	24	ASTM D1557	ABC	6.3	137.6	6.4	135.0	143.6	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1561	Curb and Gutter: Southeast Intersection of Belford Avenue and Wolf Fox Street	0.0	TBC	Troxler / 3430 / 36855 /	Granato, Michael

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1561: The Contractor prepared the curb base prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000155
Report Date: 07/05/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1562		06/29/22	13	ASTM D1557	A-2-6	9.3	130.6	9.2	125.9	137.5	8	96	95	-2 / 2	Pass
1563		06/29/22	13	ASTM D1557	A-2-6	9.3	130.6	7.4	125.4	134.7	8	96	95	-2 / 2	Pass
1564		06/29/22	13	ASTM D1557	A-2-6	9.3	130.6	7.3	124.6	133.7	8	95	95	-2 / 2	Pass
1565		06/29/22	13	ASTM D1557	A-2-6	9.3	130.6	7.3	124.1	133.2	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1562	Street Subgrade: Badger Run Street, Lot 2, Block 2	0.0	TSG	Troxler / 3440 / 20688 /	Salcido, Nain
1563	Street Subgrade: Badger Run Street, Lot 12, Block 4	0.0	TSG	Troxler / 3440 / 20688 /	Salcido, Nain
1564	Street Subgrade: Deer Track Lane, Lot 12, Block 1	0.0	TSG	Troxler / 3440 / 20688 /	Salcido, Nain
1565	Street Subgrade: Deer Track Lane, Lot 8, Block 4	0.0	TSG	Troxler / 3440 / 20688 /	Salcido, Nain

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1565: The Contractor prepared the subgrade prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000156
Report Date: 07/05/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1566		06/30/22	19	ASTM D1557	A-2-4	9.1	125.1	9.3	118.4	129.4	8	95	95	-2 / 2	Pass
1567		06/30/22	19	ASTM D1557	A-2-4	9.1	125.1	10.1	120.2	132.3	8	96	95	-2 / 2	Pass
1568		06/30/22	19	ASTM D1557	A-2-4	9.1	125.1	9.6	118.9	130.3	8	95	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1566	Sidewalk: Belford Avenue, 700' east of Wolf Fox Street	0.0	TSG	Troxler / 3430 / 33202 /	Killingsworth, Kris
1567	Sidewalk: Belford Avenue, eastbound side, 800' east of Wolf Fox Street	0.0	TSG	Troxler / 3430 / 33202 /	Killingsworth, Kris
1568	Sidewalk: Belford Avenue, eastboubd side, 900' east of Wolf Fox Street	0.0	TSG	Troxler / 3430 / 33202 /	Killingsworth, Kris

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1568: The subgrade was prepared prior to our arrival.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000157
Report Date: 08/03/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria Street and Belford Avenue
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1583		07/06/22	23	ASTM D1557	ABC	4.7	136.2	4.7	129.1	135.2	8	95	95	-2 / 2	Pass
1584		07/06/22	23	ASTM D1557	ABC	4.7	136.2	3.9	123.0	127.8	8	90	95	-2 / 2	Fail
1585		07/06/22	23	ASTM D1557	ABC	4.7	136.2	5.8	129.7	137.2	8	95	95	-2 / 2	Pass
1586		07/06/22	23	ASTM D1557	ABC	4.7	136.2	4.2	130.9	136.4	8	96	95	-2 / 2	Pass
1587	1584	07/06/22	23	ASTM D1557	ABC	4.7	136.2	4.8	133.5	139.9	8	98	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1583	Street Base Course: Bedford Avenue, westbound side, left shoulder of the right-turn deceleration lane, 15' east of Peoria Street	0.0	TBC	Troxler / 3430 / 33202 /	Killingsworth, Kris
1584	Street Base Course: Bedford Avenue, westbound left-turn turn lane, 30' east of Peoria Street	0.0	TBC	Troxler / 3430 / 33202 /	Killingsworth, Kris
1585	Street Base Course: Bedford Avenue, eastbound acceleration lane, 50' east of Peoria Street	0.0	TBC	Troxler / 3430 / 33202 /	Killingsworth, Kris
1586	Street Base Course: Peoria Street, right shoulder of the northbound lane, 75' south of Bedford Avenue	0.0	TBC	Troxler / 3430 / 33202 /	Killingsworth, Kris
1587	Street Base Course: Bedford Avenue, westbound left-turn turn lane, 30' east of Peoria Street	0.0	TBC	Troxler / 3430 / 33202 /	Killingsworth, Kris

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1587: The street subgrade was prepared prior to our arrival. We informed the Contractor, Three Sons Construction, of below specification moisture and compaction on the left-turn turn lane section. They added moisture and applied compactive effort with a jumping jack to this area prior retesting.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000158
Report Date: 08/10/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria Street and Belford Avenue
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1574		08/01/22	19	ASTM D1557	A-2-4	9.1	125.1	10.3	120.6	133.0	8	96	95	-2 / 2	Pass
1575		08/01/22	19	ASTM D1557	A-2-4	9.1	125.1	9.4	119.1	130.3	8	95	95	-2 / 2	Pass
1576		08/01/22	19	ASTM D1557	A-2-4	9.1	125.1	11.1	119.9	133.2	8	96	95	-2 / 2	Pass
1577		08/01/22	19	ASTM D1557	A-2-4	9.1	125.1	11.8	115.4	129.0	8	92	95	-2 / 2	Fail
1578	1577	08/01/22	19	ASTM D1557	A-2-4	9.1	125.1	10.7	120.0	132.8	8	96	95	-2 / 2	Pass
1579		08/01/22	19	ASTM D1557	A-2-4	9.1	125.1	10.8	118.9	131.7	8	95	95	-2 / 2	Pass
1580		08/01/22	19	ASTM D1557	A-2-4	9.1	125.1	9.6	119.2	130.6	8	95	95	-2 / 2	Pass
1581		08/01/22	19	ASTM D1557	A-2-4	9.1	125.1	9.8	119.8	131.5	8	96	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1574	Storm Sewer Manhole: Belford Avenue, SD MH 1-3, north side	7.0	BSG	Troxler / 3430 / 33202 /	Killingsworth, Kris
1575	Storm Sewer Manhole: Belford Avenue, SD MH 1-3, west side	6.0	BSG	Troxler / 3430 / 33202 /	Killingsworth, Kris
1576	Storm Sewer Manhole: Belford Avenue, SD MH 1-3, south side	5.0	BSG	Troxler / 3430 / 33202 /	Killingsworth, Kris
1577	Storm Sewer Manhole: Belford Avenue, SD MH 1-3, east side	3.0	BSG	Troxler / 3430 / 33202 /	Killingsworth, Kris
1578	Storm Sewer Manhole: Belford Avenue, SD MH 1-3, east side	3.0	BSG	Troxler / 3430 / 33202 /	Killingsworth, Kris
1579	Storm Sewer Manhole: Belford Avenue, SD MH 1-3, west side	2.0	BSG	Troxler / 3430 / 33202 /	Killingsworth, Kris
1580	Storm Sewer Manhole: Belford Avenue, SD MH 1-3, south side	1.0	BSG	Troxler / 3430 / 33202 /	Killingsworth, Kris
1581	Inlet: Belford Avenue, INL 1-3, east side	6.0	BSG	Troxler / 3430 / 33202 /	Killingsworth, Kris

Remarks

Pass: Density Pass / Moisture Pass

Fail: Density Fail / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Fill Testing

Report #: FT-000158
Report Date: 08/10/2022
Test Method: ASTM D 6938

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria Street and Belford Avenue
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1582		08/01/22	19	ASTM D1557	A-2-4	9.1	125.1	8.9	121.4	132.2	8	97	95	-2 / 2	Pass

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1582	Inlet: Belford Avenue, INL 1-3, east side	4.0	BSG	Troxler / 3430 / 33202 /	Killingsworth, Kris

Remarks

Pass: Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.

1582: The Contractor, Iron Woman, utilized a CAT 336 excavator with a wheel attachment, a 938 loader, and a jumping jack to place and apply compactive effort to the backfill. Moisture was applied using a hose supplied by a hydrant. Tests were taken near Inlet 1-3 which had been partly exposed due to the excavation.

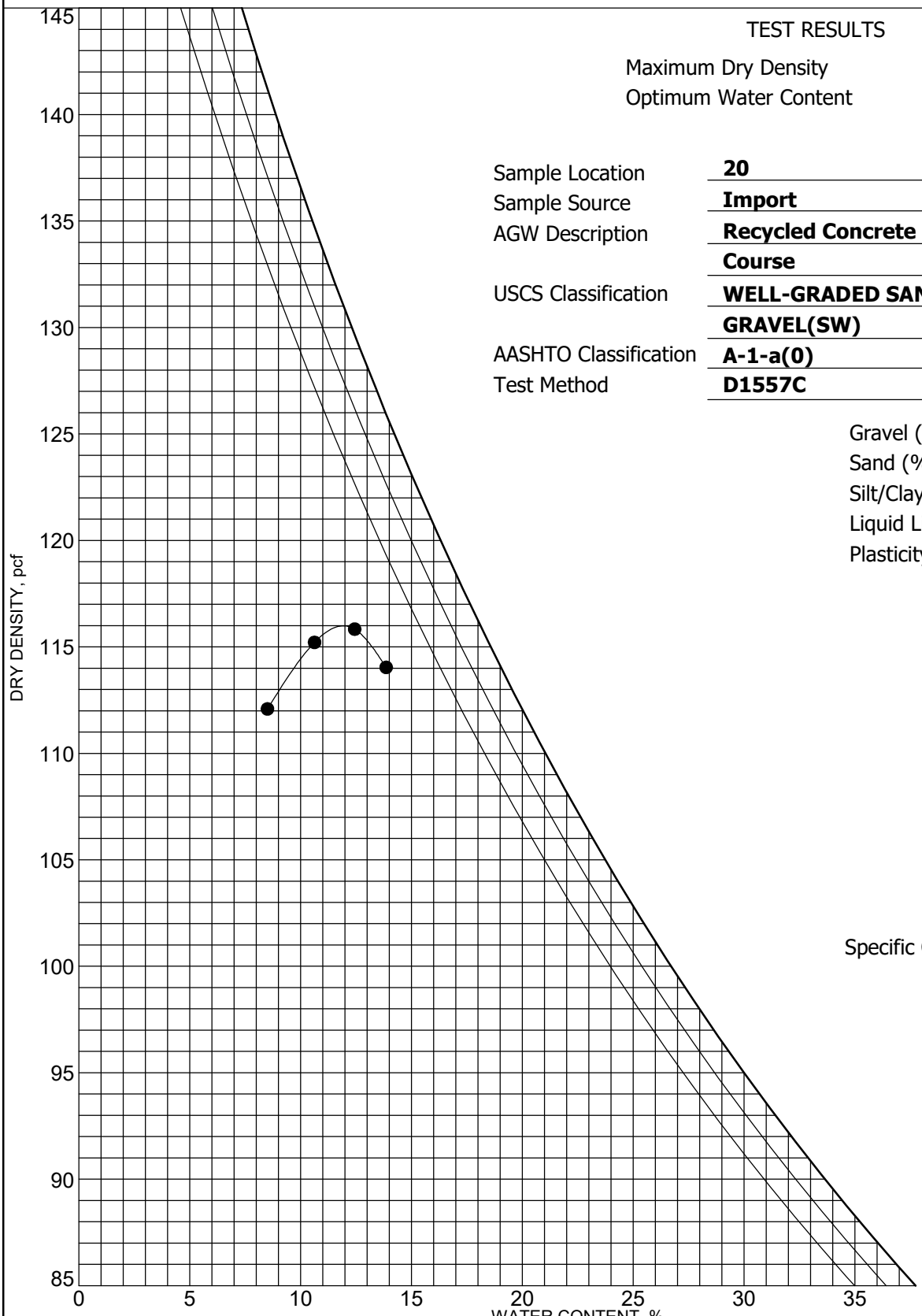
A representative of the Contractor was informed of our test results and observations. Observation services were conducted on an on-call basis. The test depths and locations are approximate and are based upon information provided by the Contractor. The lateral and vertical extents of any subexcavation were not measured or verified by this firm. The site conditions noted and test results reported apply only to the locations and depths tested at the time of our visit. It remains the Contractor's responsibility to apply the necessary compactive effort and moisture conditioning to meet the project specifications. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

MOISTURE-DENSITY RELATIONSHIP

A.G. WASSENAAR, INC.

CLIENT Belford North Metropolitan District **PROJECT NAME** Compark Village South, Filing 1 Infrastructure

PROJECT NUMBER 153733 **PROJECT LOCATION**



TEST RESULTS

Maximum Dry Density	**116.0** PCF
Optimum Water Content	**12.0** %

Sample Location	**20**
Sample Source	**Import**
AGW Description	**Recycled Concrete Base Course**
USCS Classification	**WELL-GRADED SAND with GRAVEL(SW)**
AASHTO Classification	**A-1-a(0)**
Test Method	**D1557C**

Gravel (%)	**46**
Sand (%)	**50**
Silt/Clay (%)	**4**
Liquid Limit	**NV**
Plasticity Index	**NP**

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

FIGURE 12

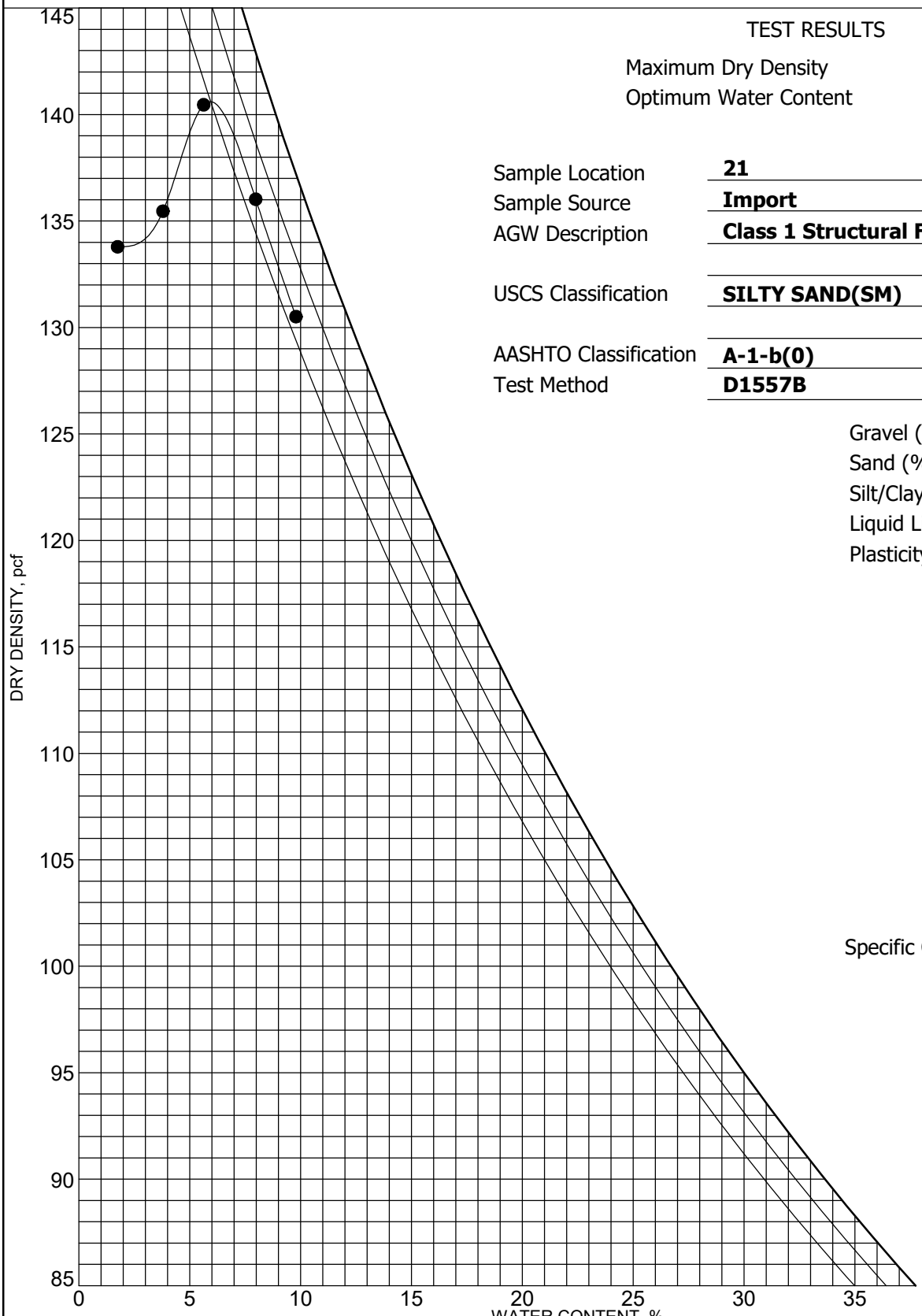
PM: Tom Hastings

MOISTURE-DENSITY RELATIONSHIP

A.G. WASSENAAR, INC.

CLIENT Belford North Metropolitan District **PROJECT NAME** Compark Village South, Filing 1 Infrastructure

PROJECT NUMBER 153733 **PROJECT LOCATION**



TEST RESULTS

Maximum Dry Density	**140.6** PCF
Optimum Water Content	**5.9** %

Sample Location	**21**
Sample Source	**Import**
AGW Description	**Class 1 Structural Fill**
USCS Classification	**SILTY SAND(SM)**
AASHTO Classification	**A-1-b(0)**
Test Method	**D1557B**

Gravel (%)	**14**
Sand (%)	**69**
Silt/Clay (%)	**18**
Liquid Limit	**NV**
Plasticity Index	**NP**

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

FIGURE 13

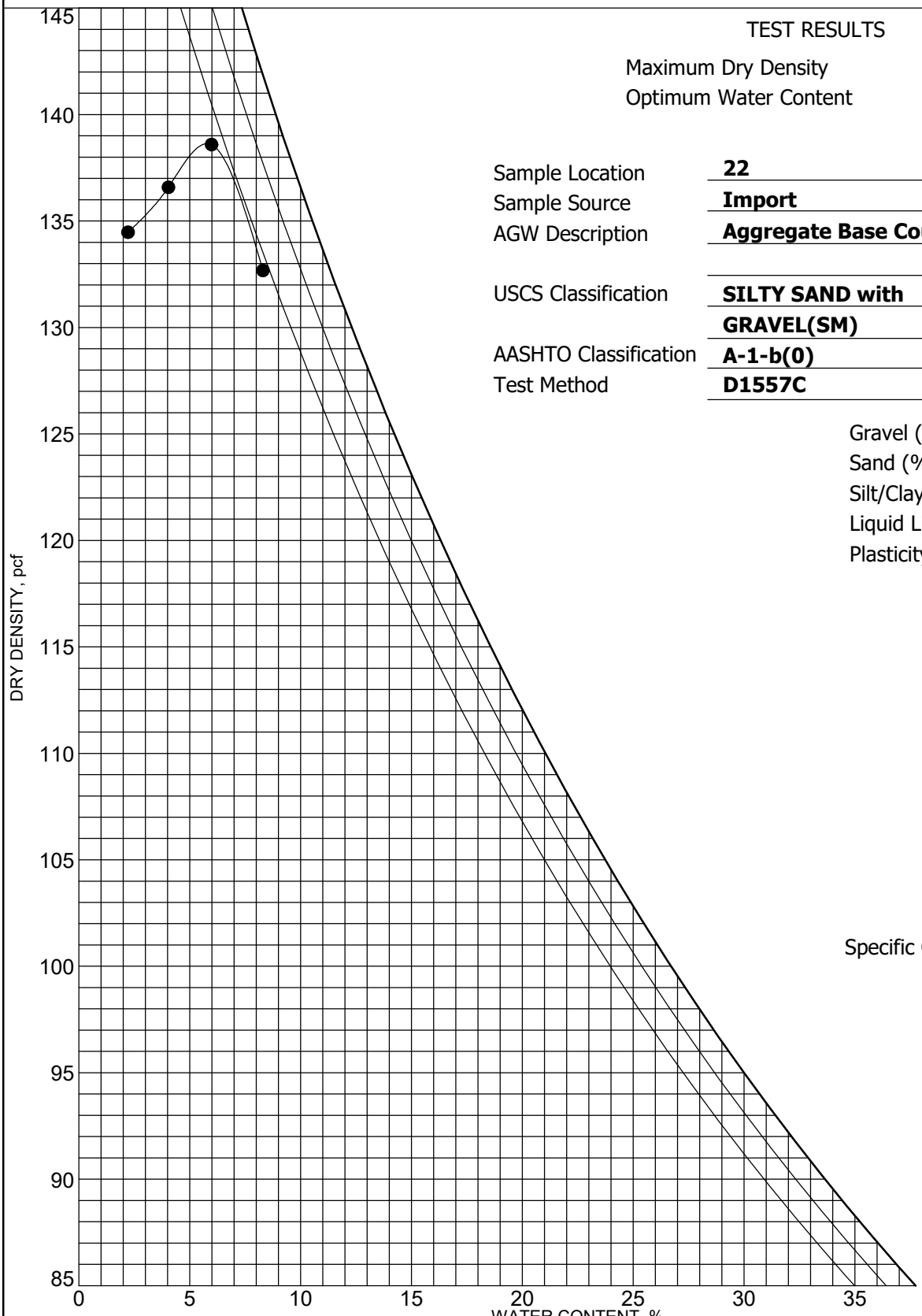
PM: Tom Hastings

MOISTURE-DENSITY RELATIONSHIP

A.G. WASSENAAR, INC.

CLIENT Belford North Metropolitan District **PROJECT NAME** Compark Village South, Filing 1 Infrastructure

PROJECT NUMBER 153733 **PROJECT LOCATION**



TEST RESULTS

Maximum Dry Density	**138.6** PCF
Optimum Water Content	**5.8** %

Sample Location	**22**
Sample Source	**Import**
AGW Description	**Aggregate Base Course**
USCS Classification	**SILTY SAND with GRAVEL(SM)**
AASHTO Classification	**A-1-b(0)**
Test Method	**D1557C**

Gravel (%)	**31**
Sand (%)	**57**
Silt/Clay (%)	**12**
Liquid Limit	**NV**
Plasticity Index	**NP**

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

FIGURE 14

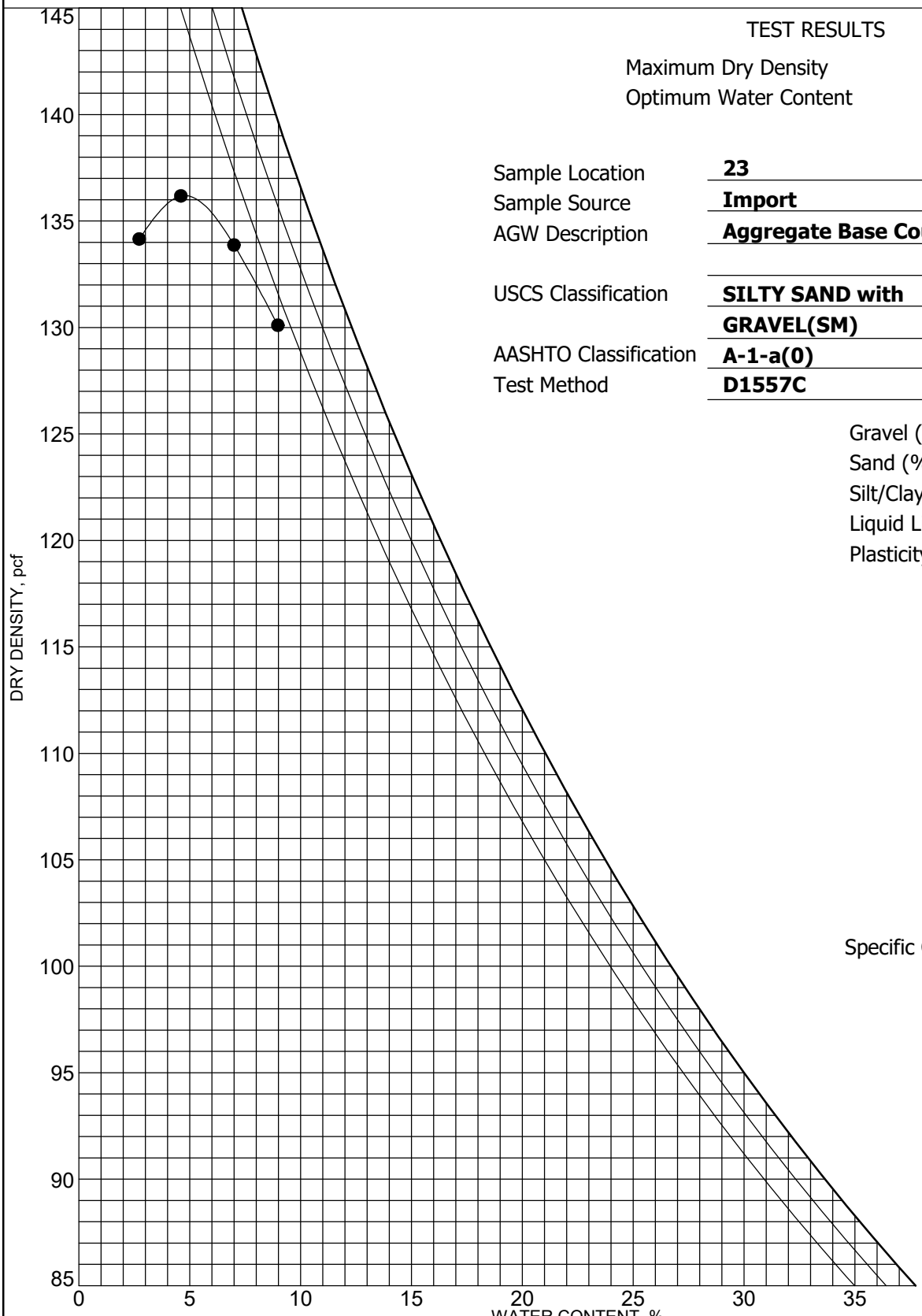
PM: Tom Hastings

MOISTURE-DENSITY RELATIONSHIP

A.G. WASSENAAR, INC.

CLIENT Belford North Metropolitan District **PROJECT NAME** Compark Village South, Filing 1 Infrastructure

PROJECT NUMBER 153733 **PROJECT LOCATION**



TEST RESULTS

Maximum Dry Density	**136.2** PCF
Optimum Water Content	**4.7** %

Sample Location	**23**
Sample Source	**Import**
AGW Description	**Aggregate Base Course**
USCS Classification	**SILTY SAND with GRAVEL(SM)**
AASHTO Classification	**A-1-a(0)**
Test Method	**D1557C**

Gravel (%)	**39**
Sand (%)	**48**
Silt/Clay (%)	**13**
Liquid Limit	**NV**
Plasticity Index	**NP**

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

FIGURE 15

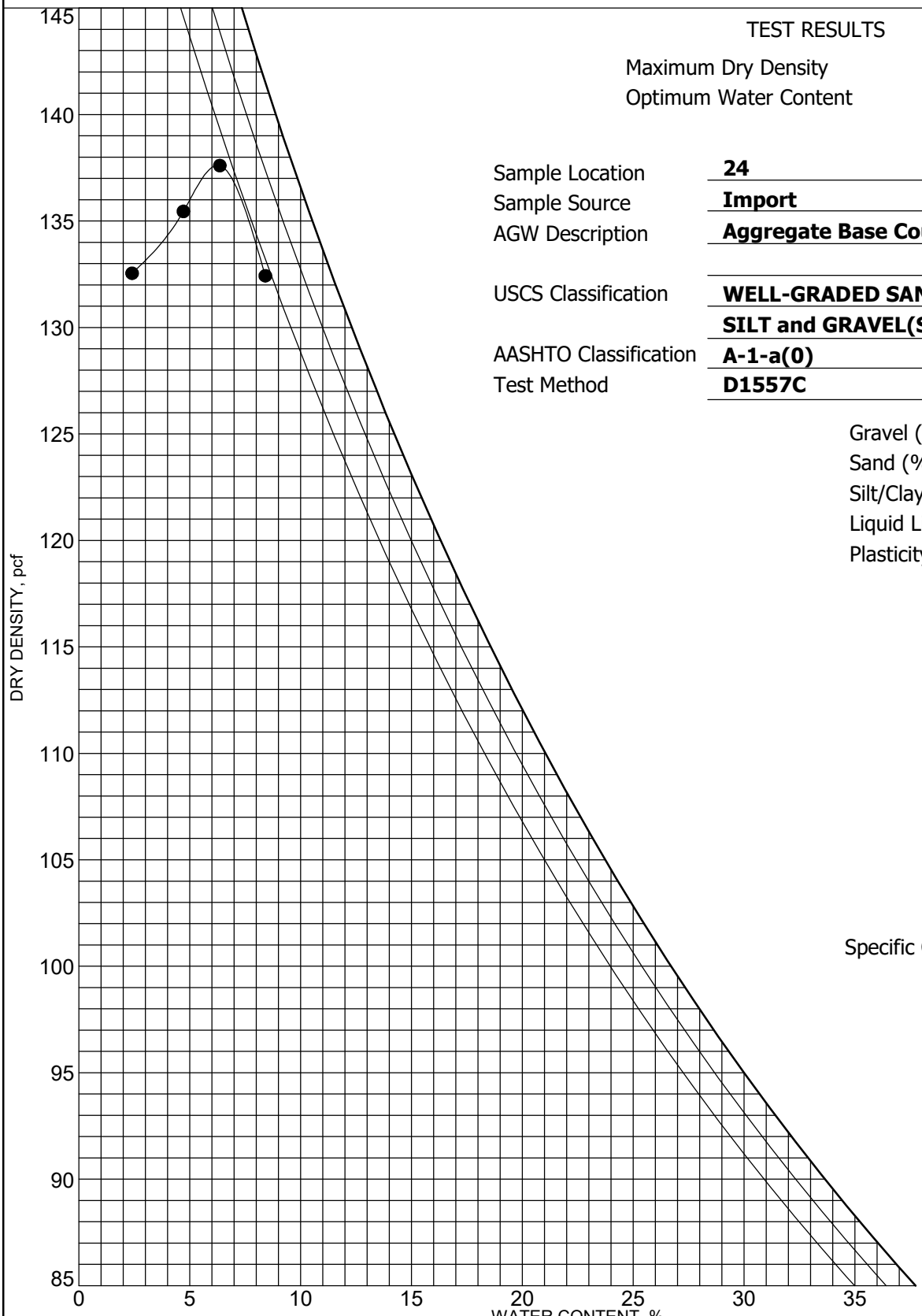
PM: Tom Hastings

MOISTURE-DENSITY RELATIONSHIP

A.G. WASSENAAR, INC.

CLIENT Belford North Metropolitan District **PROJECT NAME** Compark Village South, Filing 1 Infrastructure

PROJECT NUMBER 153733 **PROJECT LOCATION**



TEST RESULTS

Maximum Dry Density	**137.6** PCF
Optimum Water Content	**6.3** %

Sample Location	**24**
Sample Source	**Import**
AGW Description	**Aggregate Base Course**
USCS Classification	**WELL-GRADED SAND with SILT and GRAVEL(SW-SM)**
AASHTO Classification	**A-1-a(0)**
Test Method	**D1557C**

Gravel (%)	**37**
Sand (%)	**52**
Silt/Clay (%)	**11**
Liquid Limit	**NV**
Plasticity Index	**NP**

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

FIGURE 16

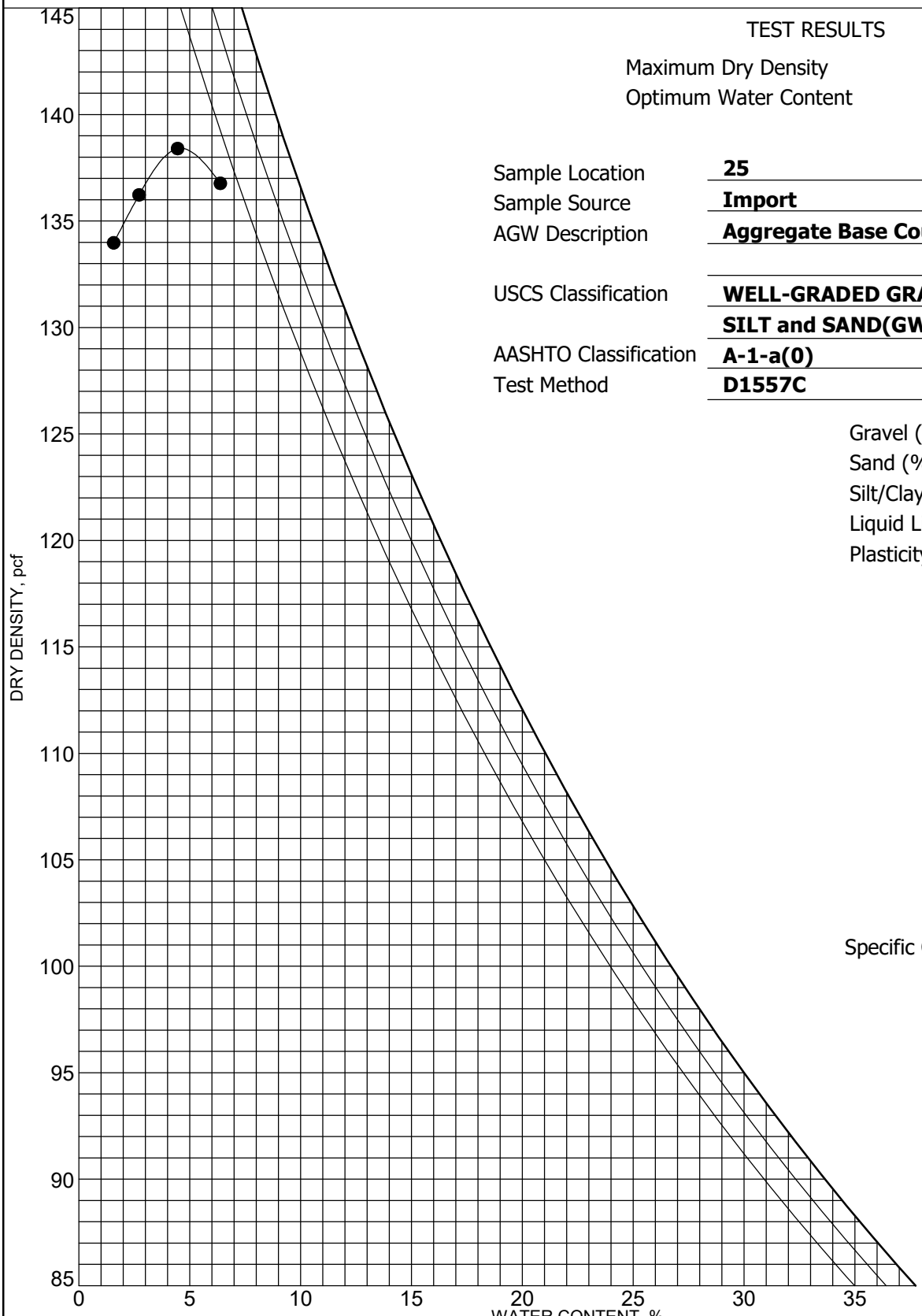
PM: Tom Hastings

MOISTURE-DENSITY RELATIONSHIP

A.G. WASSENAAR, INC.

CLIENT Belford North Metropolitan District **PROJECT NAME** Compark Village South, Filing 1 Infrastructure

PROJECT NUMBER 153733 **PROJECT LOCATION**



TEST RESULTS

Maximum Dry Density	**138.4** PCF
Optimum Water Content	**4.6** %

Sample Location	**25**
Sample Source	**Import**
AGW Description	**Aggregate Base Course**
USCS Classification	**WELL-GRADED GRAVEL with SILT and SAND(GW-GM)**
AASHTO Classification	**A-1-a(0)**
Test Method	**D1557C**

Gravel (%)	**48**
Sand (%)	**43**
Silt/Clay (%)	**9**
Liquid Limit	**NV**
Plasticity Index	**NP**

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

FIGURE 17

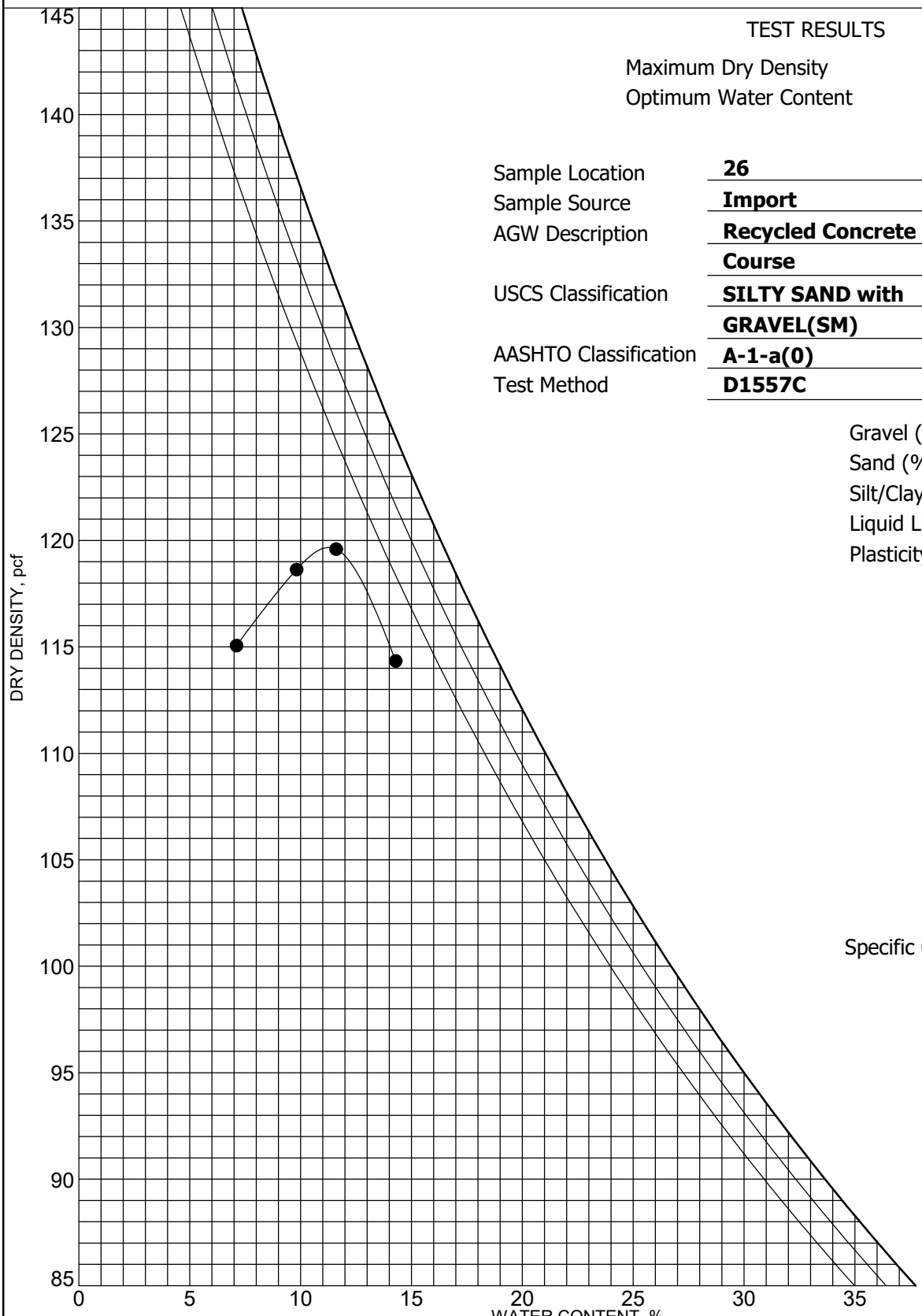
PM: Tom Hastings

MOISTURE-DENSITY RELATIONSHIP

A.G. WASSENAAR, INC.

CLIENT Belford North Metropolitan District **PROJECT NAME** Compark Village South, Filing 1 Infrastructure

PROJECT NUMBER 153733 **PROJECT LOCATION**



TEST RESULTS

Maximum Dry Density	**119.7** PCF
Optimum Water Content	**11.3** %

Sample Location	**26**
Sample Source	**Import**
AGW Description	**Recycled Concrete Base Course**
USCS Classification	**SILTY SAND with GRAVEL(SM)**
AASHTO Classification	**A-1-a(0)**
Test Method	**D1557C**

Gravel (%)	**35**
Sand (%)	**52**
Silt/Clay (%)	**13**
Liquid Limit	**NV**
Plasticity Index	**NP**

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

FIGURE 18

PM: Tom Hastings

SECTION 3

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000001
Report Date: 4/13/2021
Sample: 44605

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	1	**Technician:**	Caperton, Mason	**Batched:**	11:18 MST
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	12:30 MST
Specimens In Set:	5	**Date Cast:**	03/09/21	**Cast:**	12:45 MST
Truck / Ticket #:	1322 / 1868288	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Happy Canyon Creek sidewalk, 35' southeast of water main station 13+50
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145813G
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	139.0 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	7.9 (ASTM C231)
				Load Volume:	10 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
1-1	7	03/16/21	1 / 6	4.00	12.57	46,635	3,710	6		N
1-2	29	04/07/21	1 / 28	4.01	12.63	63,215	5,010	2		N
1-3	29	04/07/21	1 / 28	4.01	12.63	65,720	5,200	2		N
1-4	29	04/07/21	1 / 28	4.01	12.63	65,250	5,170	2		N
1-5	56 H	05/04/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3710**, 29 Day - **5130**

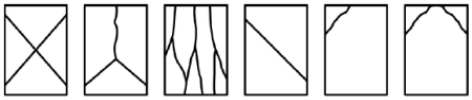
Tested By: David Nunez (1,2,3,4)
Checked In : 03/10/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 50 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000002
Report Date: 5/11/2021
Sample: 45030

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	2	**Technician:**	Caperton, Mason	**Batched:**	09:14 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	10:30 MDT
Specimens In Set:	5	**Date Cast:**	04/06/21	**Cast:**	10:45 MDT
Truck / Ticket #:	1315 / 1879763	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Sidewalk R&R
Location Details: Happy Canyon Creek sidewalk, 120' south of Highway E-470
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145813G
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3-1/2 (ASTM C143)	**Plastic Unit Weight:**	141.8 (lb/ft³) (ASTM C138)
Air Temperature (F):	70	**Concrete Temp (F):**	65 (ASTM C1064)	**Air Content:**	5.5 (ASTM C231)
				Load Volume:	6 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
2-1	7	04/13/21	2 / 5	4.00	12.57	63,605	5,060	6		N
2-2	28	05/04/21	2 / 26	4.01	12.63	89,090	7,050	2		N
2-3	28	05/04/21	2 / 26	4.01	12.63	82,105	6,500	2		N
2-4	28	05/04/21	2 / 26	4.01	12.63	88,775	7,030	2		N
2-5	56 H	06/01/21	2 / 54							

Test Age Average Strengths (psi): 7 Day - **5060**, 28 Day - **6860**

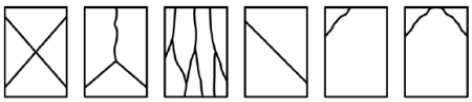
Tested By: David Nunez (1,2,3,4)
Checked In : 04/08/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

6 of 6 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000003
Report Date: 5/11/2021
Sample: 45108

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	3	**Technician:**	Caperton, Mason	**Batched:**	13:42 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	15:00 MDT
Specimens In Set:	5	**Date Cast:**	04/08/21	**Cast:**	15:15 MDT
Truck / Ticket #:	1303 / 1881922	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Inlet: Base
Location Details: PLAN:STORM-1, Inlet 2-1
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145813G
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	141.8 (lb/ft³) (ASTM C138)
Air Temperature (F):	65	**Concrete Temp (F):**	70 (ASTM C1064)	**Air Content:**	6.0 (ASTM C231)
				Load Volume:	8 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
3-1	7	04/15/21	2 / 5	4.00	12.57	54,710	4,350	2		N
3-2	28	05/06/21	2 / 26	4.00	12.57	76,600	6,090	2		N
3-3	28	05/06/21	2 / 26	4.01	12.63	74,355	5,890	2		N
3-4	28	05/06/21	2 / 26	4.01	12.63	73,620	5,830	2		N
3-5	56 H	06/03/21	2 / 54							

Test Age Average Strengths (psi): 7 Day - **4350**, 28 Day - **5940**

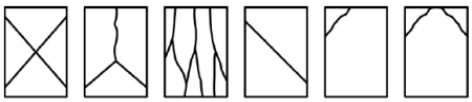
Tested By: David Nunez (1,2,3,4)
Checked In : 04/10/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

8 of 15 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000006
Report Date: 5/14/2021
Sample: 45178

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	4	**Technician:**	Caperton, Mason	**Batched:**	12:43 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	14:00 MDT
Specimens In Set:	5	**Date Cast:**	04/12/21	**Cast:**	14:15 MDT
Truck / Ticket #:	385 / 1884788	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Inlet: Wall
Location Details: PLAN: STORM-1, Inlet 1-1
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145813G
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	140.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	40	**Concrete Temp (F):**	65 (ASTM C1064)	**Air Content:**	6.5 (ASTM C231)
				Load Volume:	8 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/70	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
4-1	7	04/19/21	2 / 5	4.00	12.57	59,115	4,700	6		N
4-2	28	05/10/21	2 / 26	4.00	12.57	74,680	5,940	2		N
4-3	28	05/10/21	2 / 26	4.00	12.57	73,980	5,890	2		N
4-4	28	05/10/21	2 / 26	4.00	12.57	70,865	5,640	2		N
4-5	56 H	06/07/21	2 / 54							

Test Age Average Strengths (psi): 7 Day - **4700**, 28 Day - **5820**

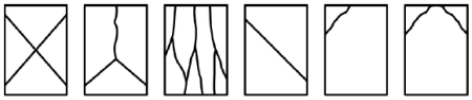
Tested By: David Nunez (1,2,3,4)
Checked In : 04/14/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

8 of 13 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000008
Report Date: 5/28/2021
Sample: 45442

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	5	**Technician:**	Caperton, Mason	**Batched:**	08:59 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	10:00 MDT
Specimens In Set:	5	**Date Cast:**	04/27/21	**Cast:**	10:15 MDT
Truck / Ticket #:	1322 / 1891600	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Forebay
Location Details: PLAN: STORM 1, forebay.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145813G
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Gloomy	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	143.4 (lb/ft³) (ASTM C138)
Air Temperature (F):	45	**Concrete Temp (F):**	65 (ASTM C1064)	**Air Content:**	5.5 (ASTM C231)
				Load Volume:	10 (yd³)

Standard Cure

Min / Max Temp (F): 65/75

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
5-1	7	05/04/21	2 / 5	4.00	12.57	56,540	4,500	6		N
5-2	28	05/25/21	2 / 26	4.00	12.57	65,960	5,250	3		N
5-3	28	05/25/21	2 / 26	4.00	12.57	64,020	5,090	3		N
5-4	28	05/25/21	2 / 26	4.00	12.57	63,550	5,060	2		N
5-5	56 H	06/22/21	2 / 54							

Test Age Average Strengths (psi): 7 Day - **4500**, 28 Day - **5130**

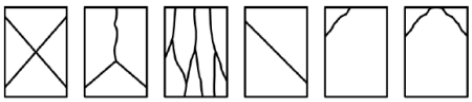
Tested By: David Nunez (1,2,3,4)
Checked In : 04/29/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 20 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000012
Report Date: 06/22/2021
Sample: 45653

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	6	**Technician:**	Caperton, Mason	**Batched:**	15:21 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	16:40 MDT
Specimens In Set:	5	**Date Cast:**	05/07/21	**Cast:**	16:55 MDT
Truck / Ticket #:	1184 / 1898178	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Inlet: Wall
Location Details: PLAN: STORM-1, inlet 1-2
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145813G
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	140.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	65	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	7.5 (ASTM C231)
				Load Volume:	10 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
6-1	7	05/14/21	1 / 6	4.00	12.57	46,300	3,680	6		N
6-2	28	06/04/21	1 / 27	4.00	12.57	65,715	5,230	4		N
6-3	28	06/04/21	1 / 27	4.00	12.57	68,385	5,440	4		N
6-4	28	06/04/21	1 / 27	4.00	12.57	62,660	4,990	4		N
6-5	56 H	07/02/21	1 / 55							

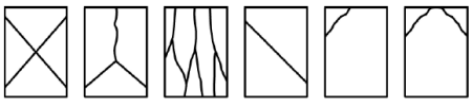
Test Age Average Strengths (psi): 7 Day - **3680**, 28 Day - **5220**

Tested By: David Nunez (1,2,3,4)
Checked In : 05/08/2021 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 30 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000013
Report Date: 06/22/2021
Sample: 45927

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	7	**Technician:**	Yakubets, Marc	**Batched:**	09:40 MDT
Specimen Size:	4" X 8"	**Cast By:**	Yakubets, Marc	**Sampled:**	11:15 MDT
Specimens In Set:	5	**Date Cast:**	05/21/21	**Cast:**	11:30 MDT
Truck / Ticket #:	1301 / 1905433	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Inlet: Wall
Location Details: PLAN STORM-1, INLET 1-1
Sample Location / Notes: NTP

Batch Log

Supplier:	Ready Mix Concrete Company	**Mix Design:**	145813G
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5.0 - 8.0 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Cloudy	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	137.9 (lb/ft³) (ASTM C138)
Air Temperature (F):	73	**Concrete Temp (F):**	85 (ASTM C1064)	**Air Content:**	8.0 (ASTM C231)
				Load Volume:	9 (yd³)

Standard Cure		Field Cure
Min / Max Temp (F):	54/98	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
7-1	7	05/28/21	5 / 2	4.00	12.57	44,350	3,530	6		N
7-2	28	06/18/21	5 / 23	4.00	12.57	64,710	5,150	2		N
7-3	28	06/18/21	5 / 23	4.00	12.57	62,525	4,970	2		N
7-4	28	06/18/21	5 / 23	4.00	12.57	61,165	4,870	2		N
7-5	56 H	07/16/21	5 / 51							

Test Age Average Strengths (psi): 7 Day - **3530**, 28 Day - **5000**

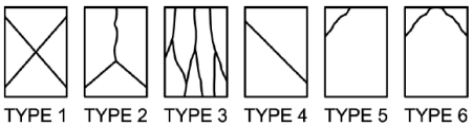
Tested By: David Nunez (1,2,3,4)
Checked In : 05/26/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

9 of 25 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000015
Report Date: 07/13/2021
Sample: 46188

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	8	**Technician:**	Caperton, Mason	**Batched:**	12:02 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	13:15 MDT
Specimens In Set:	5	**Date Cast:**	05/28/21	**Cast:**	13:30 MDT
Truck / Ticket #:	0377 / 1911293	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Outlet
Location Details: PLAN: STORM-1, outlet structure.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier:	Brannan Ready Mix	**Mix Design:**	145813G
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5.0 - 8.0 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	142.2 (lb/ft³) (ASTM C138)
Air Temperature (F):	80	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	6.5 (ASTM C231)
				Load Volume:	9 (yd³)

Standard Cure		Field Cure
Min / Max Temp (F):	65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
8-1	7	06/04/21	1 / 6	4.00	12.57	51,590	4,100	6		N
8-2	28	06/25/21	1 / 27	4.00	12.57	76,610	6,100	2		N
8-3	28	06/25/21	1 / 27	4.00	12.57	78,875	6,280	2		N
8-4	28	06/25/21	1 / 27	4.00	12.57	78,445	6,240	2		N
8-5	56 H	07/23/21	1 / 55							

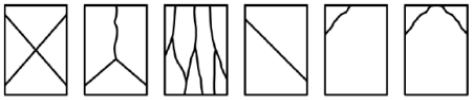
Test Age Average Strengths (psi): 7 Day - **4100**, 28 Day - **6200**

Tested By: David Nunez (1,2,3,4)
Checked In : 05/29/2021 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)

General Remarks

9 of 9 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000017
Report Date: 07/13/2021
Sample: 46469

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	9	**Technician:**	Bross, Terrance	**Batched:**	07:48 MDT
Specimen Size:	4" X 8"	**Cast By:**	Bross, Terrance	**Sampled:**	08:35 MDT
Specimens In Set:	5	**Date Cast:**	06/10/21	**Cast:**	08:50 MDT
Truck / Ticket #:	1315 / 1919327	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Forebay
Location Details: Detention pond, 5' east of Forebay A base
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145813G
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	140.4 (lb/ft³) (ASTM C138)
Air Temperature (F):	82	**Concrete Temp (F):**	90 (ASTM C1064)	**Air Content:**	5.8 (ASTM C231)
				Load Volume:	10 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 44/102	

Lab Test Results

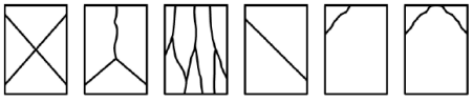
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
9-1	7	06/17/21	1 / 6	4.01	12.63	44,650	3,540	6		N
9-2	28	07/08/21	1 / 27	4.01	12.63	70,875	5,610	2		N
9-3	28	07/08/21	1 / 27	4.01	12.63	74,650	5,910	2		N
9-4	28	07/08/21	1 / 27	4.01	12.63	71,210	5,640	2		N
9-5	56 H	08/05/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3540**, 28 Day - **5720**

Tested By: David Nunez (1,2,3,4)
Checked In : 06/11/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000016
Report Date: 07/13/2021
Sample: 46509

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	10	**Technician:**	Caperton, Mason	**Batched:**	08:08 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	09:15 MDT
Specimens In Set:	5	**Date Cast:**	06/08/21	**Cast:**	09:30 MDT
Truck / Ticket #:	0417 / 1917387	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Forebay
Location Details: Detention Pond, Forebay B, Base.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145813G
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	144.2 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	5.0 (ASTM C231)
				Load Volume:	8 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
10-1	7	06/15/21	2 / 5	4.00	12.57	64,470	5,130	6		N
10-2	28	07/06/21	2 / 26	4.00	12.57	85,895	6,830	2		N
10-3	28	07/06/21	2 / 26	4.00	12.57	84,335	6,710	2		N
10-4	28	07/06/21	2 / 26	4.00	12.57	84,660	6,740	2		N
10-5	56 H	08/03/21	2 / 54							

Test Age Average Strengths (psi): 7 Day - **5130**, 28 Day - **6760**

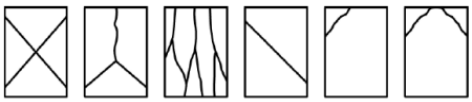
Tested By: David Nunez (1,2,3,4)
Checked In : 06/10/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

8 OF 15 YARDS



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000019
Report Date: 07/27/2021
Sample: 46869

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	11	**Technician:**	Yakubets, Marc	**Batched:**	13:36 MDT
Specimen Size:	4" X 8"	**Cast By:**	Yakubets, Marc	**Sampled:**	14:45 MDT
Specimens In Set:	5	**Date Cast:**	06/18/21	**Cast:**	15:00 MDT
Truck / Ticket #:	1912 / 21109018	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron woman construction	**Placement Method:**		**Placement Time:**	

Location

Placement Location: Storm Sewer Main
Location Details: Sanitary Sewer Mainline, Station 49+00, Encampment.
Sample Location / Notes: NTP

Batch Log

Supplier: Martin Marietta Materials **Mix Design:** CD4575
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Cloudy	**Slump (in):**	4-1/2 (ASTM C143)	**Plastic Unit Weight:**	140.3 (lb/ft³) (ASTM C138)
Air Temperature (F):	90	**Concrete Temp (F):**	85 (ASTM C1064)	**Air Content:**	7.0 (ASTM C231)
				Load Volume:	8.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/74	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
11-1	7	06/25/21	1 / 6	4.00	12.57	52,110	4,150	6		N
11-2	28	07/16/21	1 / 27	4.00	12.57	72,525	5,770	2		N
11-3	28	07/16/21	1 / 27	4.00	12.57	72,315	5,750	2		N
11-4	28	07/16/21	1 / 27	4.00	12.57	71,425	5,680	2		N
11-5	56 H	08/13/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4150**, 28 Day - **5740**

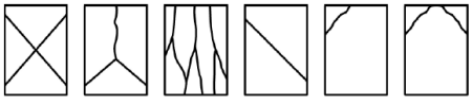
Tested By: David Nunez (1,2,3,4)
Checked In : 06/19/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

8 of 8 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000029
Report Date: 08/05/2021
Sample: 47557

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	14	**Technician:**	Young, Dustin	**Batched:**	15:05 MDT
Specimen Size:	4" X 8"	**Cast By:**	Young, Dustin	**Sampled:**	16:30 MDT
Specimens In Set:	5	**Date Cast:**	07/07/21	**Cast:**	16:45 MDT
Truck / Ticket #:	716 / 23102696	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman Construction	**Placement Method:**	Tremie	**Placement Time:**	

Location

Placement Location: Concrete Waterline Encasement
Location Details: Sanitary Sewer Main Encasement, Belford Avenue, STA 14+50.
Sample Location / Notes: SOP

Batch Log

Supplier: Martin Marietta Materials **Mix Design:** CD4575
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5.0 - 8.0 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	143.0 (lb/ft³) (ASTM C138)
Air Temperature (F):	89	**Concrete Temp (F):**	86 (ASTM C1064)	**Air Content:**	5.1 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 63/92	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
14-1	7	07/14/21	2 / 5	4.00	12.57	55,765	4,440	6		N
14-2	28	08/04/21	2 / 26	4.01	12.63	74,510	5,900	2		N
14-3	28	08/04/21	2 / 26	4.01	12.63	76,070	6,020	2		N
14-4	28	08/04/21	2 / 26	4.01	12.63	73,210	5,800	2		N
14-5	56 H	09/01/21	2 / 54							

Test Age Average Strengths (psi): 7 Day - **4440**, 28 Day - **5910**

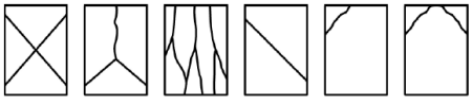
Tested By: David Nunez (1,2,3,4)
Checked In : 07/09/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 10 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000039
Report Date: 08/27/2021
Sample: 47972

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	15	**Technician:**	Caperton, Mason	**Batched:**	07:32 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	08:15 MDT
Specimens In Set:	5	**Date Cast:**	07/14/21	**Cast:**	08:30 MDT
Truck / Ticket #:	9237 / 62312551	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Trickle Channel
Location Details: PLAN: STORM-1, trickle channel
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	6 (ASTM C143)	**Plastic Unit Weight:**	140.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	70	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	7.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

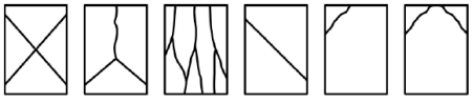
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
15-1	7	07/21/21	1 / 6	4.00	12.57	54,320	4,320	6		N
15-2	28	08/11/21	1 / 27	4.00	12.57	70,880	5,640	2		N
15-3	28	08/11/21	1 / 27	4.00	12.57	72,410	5,760	2		N
15-4	28	08/11/21	1 / 27	4.00	12.57	72,890	5,800	2		N
15-5	56 H	09/08/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4320**, 28 Day - **5730**

Tested By: David Nunez (1,2,3,4)
Checked In : 07/15/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000040
Report Date: 08/27/2021
Sample: 48120

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	16	**Technician:**	Royse, James	**Batched:**	05:32 MDT
Specimen Size:	4" X 8"	**Cast By:**	Royse, James	**Sampled:**	06:10 MDT
Specimens In Set:	6	**Date Cast:**	07/20/21	**Cast:**	06:25 MDT
Truck / Ticket #:	9262 / 62312716	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Box Culvert: Floor
Location Details: Conspan, under Belford Avenue, Station 47+00, Base.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 9456738
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	sunny	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	141.5 (lb/ft³) (ASTM C138)
Air Temperature (F):	70	**Concrete Temp (F):**	77 (ASTM C1064)	**Air Content:**	5.8 (ASTM C231)
				Load Volume:	11.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 64/84	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
16-1	3	07/23/21	1 / 2	3.99	12.50	52,155	4,170	6		N
16-2	6	07/26/21	1 / 5	4.02	12.69	57,075	4,500	6		N
16-3	7	07/27/21	1 / 6	4.00	12.57	59,460	4,730	6		N
16-4	28	08/17/21	1 / 27	3.99	12.50	65,950	5,280	2		N
16-5	28	08/17/21	1 / 27	3.99	12.50	68,660	5,490	2		N
16-6	56 H	09/14/21	1 / 55							

Test Age Average Strengths (psi): 3 Day - **4170**, 6 Day - **4500**, 7 Day - **4730**, 28 Day - **5390**

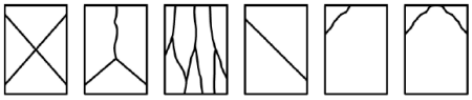
Tested By: David Nunez (1,2,3,4,5)
Checked In : 07/21/2021 (1,2,3,4,5,6)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

11 of 600 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000041
Report Date: 08/27/2021
Sample: 48122

AGW
A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	17	**Technician:**	Royse, James	**Batched:**	06:47 MDT
Specimen Size:	4" X 8"	**Cast By:**	Royse, James	**Sampled:**	07:20 MDT
Specimens In Set:	6	**Date Cast:**	07/20/21	**Cast:**	07:35 MDT
Truck / Ticket #:	148 / 62312729	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Box Culvert: Floor
Location Details: Conspan under Belford Avenue, Station 47+00, Base.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 9456738
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	sunny	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	142.5 (lb/ft³) (ASTM C138)
Air Temperature (F):	70	**Concrete Temp (F):**	70 (ASTM C1064)	**Air Content:**	5.8 (ASTM C231)
				Load Volume:	12.00 (yd³)

Standard Cure

Min / Max Temp (F): 64/84

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
17-1	3	07/23/21	1 / 2	3.99	12.50	59,185	4,740	6		N
17-2	6	07/26/21	1 / 5	4.02	12.69	63,990	5,040	6		N
17-3	7	07/27/21	1 / 6	4.00	12.57	65,445	5,210	6		N
17-4	28	08/17/21	1 / 27	4.00	12.57	71,825	5,710	2		N
17-5	28	08/17/21	1 / 27	4.00	12.57	76,695	6,100	2		N
17-6	56 H	09/14/21	1 / 55							

Test Age Average Strengths (psi): 3 Day - **4740**, 6 Day - **5040**, 7 Day - **5210**, 28 Day - **5910**

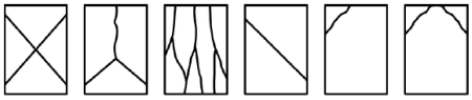
Tested By: David Nunez (1,2,3,4,5)
Checked In : 07/21/2021 (1,2,3,4,5,6)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

125 of 600 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000042
Report Date: 08/27/2021
Sample: 48123

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	18	**Technician:**	Royse, James	**Batched:**	09:14 MDT
Specimen Size:	4" X 8"	**Cast By:**	Royse, James	**Sampled:**	10:20 MDT
Specimens In Set:	6	**Date Cast:**	07/20/21	**Cast:**	10:35 MDT
Truck / Ticket #:	168 / 62312759	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Box Culvert: Floor
Location Details: Conspan under Belford Avenue.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 9456738
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	sunny	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	143.5 (lb/ft³) (ASTM C138)
Air Temperature (F):	70	**Concrete Temp (F):**	77 (ASTM C1064)	**Air Content:**	5.1 (ASTM C231)
				Load Volume:	11.00 (yd³)

Standard Cure

Min / Max Temp (F): 64/84

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
18-1	3	07/23/21	1 / 2	3.99	12.50	59,395	4,750	6		N
18-2	6	07/26/21	1 / 5	4.02	12.69	62,705	4,940	6		N
18-3	7	07/27/21	1 / 6	4.00	12.57	64,210	5,110	6		N
18-4	28	08/17/21	1 / 27	4.00	12.57	78,595	6,250	2		N
18-5	28	08/17/21	1 / 27	4.00	12.57	80,130	6,380	2		N
18-6	56 H	09/14/21	1 / 55							

Test Age Average Strengths (psi): 3 Day - **4750**, 6 Day - **4940**, 7 Day - **5110**, 28 Day - **6310**

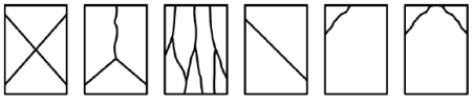
Tested By: David Nunez (1,2,3,4,5)
Checked In : 07/21/2021 (1,2,3,4,5,6)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

347.5 of 600 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000043
Report Date: 08/27/2021
Sample: 48207

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	19	**Technician:**	Kramer, Griffin	**Batched:**	05:47 MDT
Specimen Size:	4" X 8"	**Cast By:**	Kramer, Griffin	**Sampled:**	06:15 MDT
Specimens In Set:	6	**Date Cast:**	07/20/21	**Cast:**	06:30 MDT
Truck / Ticket #:	9612 / 62312718	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Box Culvert
Location Details: Crospan under Belford Avenue, station 47+00, base.
Sample Location / Notes: NTP

Batch Log

Supplier:	Aggregate Industries	**Mix Design:**	9456738
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	144.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	63	**Concrete Temp (F):**	82 (ASTM C1064)	**Air Content:**	5.5 (ASTM C231)
				Load Volume:	10.50 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 63/91	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
19-1	7	07/27/21	1 / 6	4.00	12.57	51,245	4,080	6		N
19-2	14	08/03/21	1 / 13	4.02	12.69	71,895	5,670	3		N
19-3	28	08/17/21	1 / 27	4.02	12.69	80,060	6,310	2		N
19-4	28	08/17/21	1 / 27	4.02	12.69	84,765	6,680	2		N
19-5	28	08/17/21	1 / 27	4.02	12.69	78,700	6,200	2		N
19-6	56 H	09/14/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4080**, 14 Day - **5670**, 28 Day - **6400**

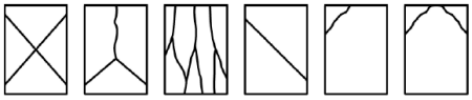
Tested By: David Nunez (1,2,3,4,5)
Checked In : 07/21/2021 (1,2,3,4,5,6)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

21.5 of 600 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000044
Report Date: 08/27/2021
Sample: 48211

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	20	**Technician:**	Kramer, Griffin	**Batched:**	08:21 MDT
Specimen Size:	4" X 8"	**Cast By:**	Kramer, Griffin	**Sampled:**	08:45 MDT
Specimens In Set:	6	**Date Cast:**	07/20/21	**Cast:**	09:00 MDT
Truck / Ticket #:	9241 / 62312747	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Box Culvert
Location Details: Conspan under Belford Avenue, station 47+00, base.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 9456738
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	6 (ASTM C143)	**Plastic Unit Weight:**	139.8 (lb/ft³) (ASTM C138)
Air Temperature (F):	66	**Concrete Temp (F):**	79 (ASTM C1064)	**Air Content:**	6.9 (ASTM C231)
				Load Volume:	11.00 (yd³)

Standard Cure

Min / Max Temp (F): 63/91

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
20-1	7	07/27/21	1 / 6	4.00	12.57	58,000	4,610	6		N
20-2	14	08/03/21	1 / 13	4.02	12.69	58,440	4,610	3		N
20-3	28	08/17/21	1 / 27	4.02	12.69	69,520	5,480	2		N
20-4	28	08/17/21	1 / 27	4.02	12.69	65,680	5,180	2		N
20-5	28	08/17/21	1 / 27	4.02	12.69	67,535	5,320	2		N
20-6	56 H	09/14/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4610**, 14 Day - **4610**, 28 Day - **5330**

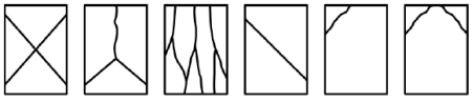
Tested By: David Nunez (1,2,3,4,5)
Checked In : 07/21/2021 (1,2,3,4,5,6)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

247 of 600 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000045
Report Date: 08/27/2021
Sample: 48212

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	21	**Technician:**	Kramer, Griffin	**Batched:**	10:09 MDT
Specimen Size:	4" X 8"	**Cast By:**	Kramer, Griffin	**Sampled:**	10:40 MDT
Specimens In Set:	6	**Date Cast:**	07/20/21	**Cast:**	10:55 MDT
Truck / Ticket #:	160 / 62312772	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Box Culvert
Location Details: Conspan under Belford Avenue, station 47+00, base.
Sample Location / Notes: NTP

Batch Log

Supplier:	Aggregate Industries	**Mix Design:**	9456738
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	141.4 (lb/ft³) (ASTM C138)
Air Temperature (F):	68	**Concrete Temp (F):**	82 (ASTM C1064)	**Air Content:**	6.9 (ASTM C231)
				Load Volume:	12.00 (yd³)

Standard Cure

Min / Max Temp (F): 63/91

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
21-1	7	07/27/21	1 / 6	4.00	12.57	56,645	4,510	6		N
21-2	14	08/03/21	1 / 13	4.02	12.69	60,920	4,800	3		N
21-3	14 H	08/03/21	1 / 13	4.02	12.69	65,290	5,150	3		N
21-4	28	08/17/21	1 / 27	4.02	12.69	62,690	4,940	2		N
21-5	28	08/17/21	1 / 27	4.02	12.69	59,285	4,670	2		N
21-6	28	08/17/21	1 / 27	4.02	12.69	64,555	5,090	2		N

Test Age Average Strengths (psi): 7 Day - **4510**, 14 Day - **4970**, 28 Day - **4900**

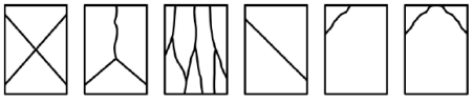
Tested By: David Nunez (1,2,3,4,5,6)
Checked In : 07/21/2021 (1,2,3,4,5,6)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

426 of 600 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000046
Report Date: 08/27/2021
Sample: 48213

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	22	**Technician:**	Kramer, Griffin	**Batched:**	10:54 MDT
Specimen Size:	4" X 8"	**Cast By:**	Kramer, Griffin	**Sampled:**	11:20 MDT
Specimens In Set:	6	**Date Cast:**	07/20/21	**Cast:**	11:35 MDT
Truck / Ticket #:	169 / 62312785	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Box Culvert
Location Details: Conspan under Belford Avenue, station 47+00, base.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 9456738
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	5-1/2 (ASTM C143)	**Plastic Unit Weight:**	142.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	69	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	6.6 (ASTM C231)
				Load Volume:	12.00 (yd³)

Standard Cure

Min / Max Temp (F): 63/91

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
22-1	7	07/27/21	1 / 6	4.00	12.57	59,255	4,710	6		N
22-2	14	08/03/21	1 / 13	4.02	12.69	63,860	5,030	3		N
22-3	28	08/17/21	1 / 27	4.02	12.69	63,205	4,980	2		N
22-4	56 H	09/14/21	1 / 55							
22-5	28	08/17/21	1 / 27	4.02	12.69	66,695	5,260	2		N
22-6	28	08/17/21	1 / 27	4.02	12.69	62,260	4,910	2		N

Test Age Average Strengths (psi): 7 Day - **4710**, 14 Day - **5030**, 28 Day - **5050**

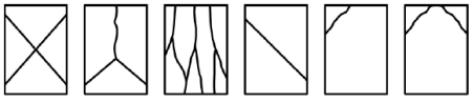
Tested By: David Nunez (1,2,3,5,6)
Checked In : 07/21/2021 (1,2,3,4,5,6)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

518 of 600 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000049
Report Date: 09/13/2021
Sample: 48665

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	23	**Technician:**	Caperton, Mason	**Batched:**	11:13 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	12:10 MDT
Specimens In Set:	8	**Date Cast:**	07/30/21	**Cast:**	12:25 MDT
Truck / Ticket #:	144 / 86204794	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Box Culvert: Walls
Location Details: Conspan under Belford Avenue, east wall
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	145.8 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	5.0 (ASTM C231)
				Load Volume:	11.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

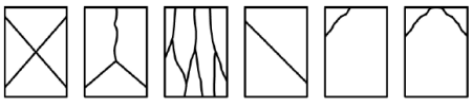
Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
23-1	3	08/02/21	1 / 2	4.00	12.57	54,360	4,330	6		N
23-2	7	08/06/21	1 / 6	4.01	12.63	57,000	4,510	6		N
23-3	14	08/13/21	1 / 13	3.99	12.50	59,720	4,780	2		N
23-4	21	08/20/21	1 / 20	4.01	12.63	70,380	5,570	6		N
23-5	31	08/30/21	1 / 30	4.02	12.69	83,315	6,570	4		N
23-6	31	08/30/21	1 / 30	4.02	12.69	82,005	6,460	3		N
23-7	31	08/30/21	1 / 30	4.02	12.69	77,775	6,130	2		N
23-8	56 H	09/24/21	1 / 55							

Test Age Average Strengths (psi): 3 Day - **4330**, 7 Day - **4510**, 14 Day - **4780**, 21 Day - **5570**, 31 Day - **6390**

Tested By: David Nunez (1,2,3,4,5,6,7)
Checked In : 07/31/2021 (1,2,3,4,5,6,7,8)

Capping Methods
N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000050
Report Date: 09/13/2021
Sample: 49025

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	24	**Technician:**	Englehardt, Casey	**Batched:**	06:25 MDT
Specimen Size:	4" X 8"	**Cast By:**	Englehardt, Casey	**Sampled:**	07:05 MDT
Specimens In Set:	5	**Date Cast:**	08/04/21	**Cast:**	07:20 MDT
Truck / Ticket #:	115 / 62313394	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Constuction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Box Culvert: Walls
Location Details: Conspan under Belford Ave, West Wall
Sample Location / Notes: NTP

Batch Log

Supplier:	Aggregate Industries	**Mix Design:**	9456738
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	143.7 (lb/ft³) (ASTM C138)
Air Temperature (F):	81	**Concrete Temp (F):**	78 (ASTM C1064)	**Air Content:**	5.5 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

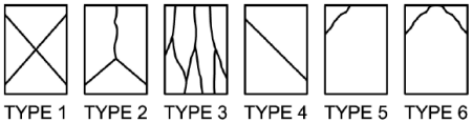
Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
24-1	8	08/12/21	7 / 1	4.02	12.69	58,610	4,620	4		U
24-2	28	09/01/21	7 / 21	4.01	12.63	73,450	5,820	2		N
24-3	28	09/01/21	7 / 21	4.01	12.63	71,540	5,660	4		N
24-4	28	09/01/21	7 / 21	4.01	12.63	69,530	5,510	3		N
24-5	56 H	09/29/21	7 / 49							

Test Age Average Strengths (psi): 8 Day - **4620**, 28 Day - **5660**

Tested By: Michael Brookfield (1), David Nunez (2,3,4)
Checked In : 08/11/2021 (1,2,3,4,5)

Capping Methods
U: Uncapped (ASTM C780)
N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000051
Report Date: 09/13/2021
Sample: 49095

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	25	**Technician:**	Caperton, Mason	**Batched:**	08:22 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	09:15 MDT
Specimens In Set:	5	**Date Cast:**	08/10/21	**Cast:**	09:30 MDT
Truck / Ticket #:	9262 / 86205069	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Inlet: Base
Location Details: PLAN: STORM-5B, Inlets 1-5 and 2-5
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	142.2 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	7.0 (ASTM C231)
				Load Volume:	5.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

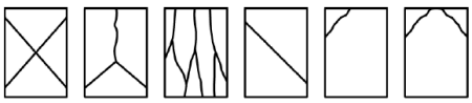
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
25-1	8	08/18/21	1 / 7	4.01	12.63	52,010	4,120	6		N
25-2	29	09/08/21	1 / 28	4.00	12.57	70,220	5,590	3		N
25-3	29	09/08/21	1 / 28	4.00	12.57	69,410	5,520	3		N
25-4	29	09/08/21	1 / 28	4.00	12.57	74,425	5,920	3		N
25-5	56 H	10/05/21	1 / 55							

Test Age Average Strengths (psi): 8 Day - **4120**, 29 Day - **5680**

Tested By: David Nunez (1,2,3,4)
Checked In : 08/11/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000052
Report Date: 09/13/2021
Sample: 49111

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	26	**Technician:**	Caperton, Mason	**Batched:**	08:00 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	09:00 MDT
Specimens In Set:	5	**Date Cast:**	08/11/21	**Cast:**	09:15 MDT
Truck / Ticket #:	537 / 36106434	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Manhole Base
Location Details: PLAN: STORM-12A, STMH 7-12.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Martin Marietta Materials **Mix Design:** A4557
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	144.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	5.5 (ASTM C231)
				Load Volume:	6.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
26-1	7	08/18/21	1 / 6	4.01	12.63	46,485	3,680	6		N
26-2	28	09/08/21	1 / 27	4.01	12.63	67,935	5,380	2		N
26-3	28	09/08/21	1 / 27	4.01	12.63	67,220	5,320	2		N
26-4	28	09/08/21	1 / 27	4.01	12.63	60,305	4,780	2		N
26-5	56 H	10/06/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3680**, 28 Day - **5160**

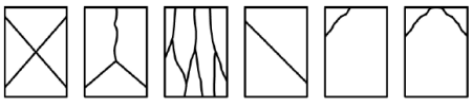
Tested By: David Nunez (1,2,3,4)
Checked In : 08/12/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

6 of 6 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000053
Report Date: 09/13/2021
Sample: 49113

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	27	**Technician:**	Caperton, Mason	**Batched:**	14:39 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	15:30 MDT
Specimens In Set:	5	**Date Cast:**	08/11/21	**Cast:**	15:45 MDT
Truck / Ticket #:	9236 / 62313824	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Manhole Base
Location Details: PROFILE: STORM-12, STMH 14-12
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	141.4 (lb/ft³) (ASTM C138)
Air Temperature (F):	80	**Concrete Temp (F):**	85 (ASTM C1064)	**Air Content:**	7.5 (ASTM C231)
				Load Volume:	6.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

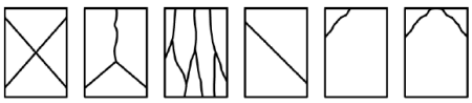
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
27-1	7	08/18/21	1 / 6	4.01	12.63	50,495	4,000	6		N
27-2	28	09/08/21	1 / 27	4.01	12.63	71,170	5,640	2		N
27-3	28	09/08/21	1 / 27	4.01	12.63	74,675	5,910	2		N
27-4	28	09/08/21	1 / 27	4.01	12.63	75,555	5,980	2		N
27-5	56 H	10/06/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4000**, 28 Day - **5840**

Tested By: David Nunez (1,2,3,4)
Checked In : 08/12/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000057
Report Date: 09/16/2021
Sample: 49190

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	28	**Technician:**	Caperton, Mason	**Batched:**	11:57 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	12:30 MDT
Specimens In Set:	5	**Date Cast:**	08/13/21	**Cast:**	12:45 MDT
Truck / Ticket #:	9223 / 62313947	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Inlet: Wall
Location Details: PLAN: STORM-12, Inlet 1-5
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	138.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	8.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 65/75

Field Cure

Lab Test Results

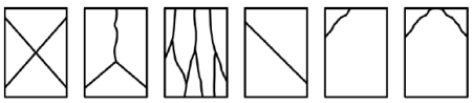
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
28-1	7	08/20/21	1 / 6	4.01	12.63	48,540	3,840	6		N
28-2	28	09/10/21	1 / 27	4.00	12.57	56,855	4,520	5		N
28-3	28	09/10/21	1 / 27	4.00	12.57	57,135	4,550	5		N
28-4	28	09/10/21	1 / 27	4.00	12.57	58,175	4,630	5		N
28-5	56 H	10/08/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3840**, 28 Day - **4570**

Tested By: David Nunez (1,2,3,4)
Checked In : 08/14/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000058
Report Date: 09/16/2021
Sample: 49272

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	29	**Technician:**	Caperton, Mason	**Batched:**	08:12 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	09:30 MDT
Specimens In Set:	5	**Date Cast:**	08/16/21	**Cast:**	09:45 MDT
Truck / Ticket #:	2104 / 43297472	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Manhole Base
Location Details: PLAN: STORM 12, STMH 5-12.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Martin Marietta Materials **Mix Design:** A4557
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	144.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	70	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	5.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
29-1	7	08/23/21	1 / 6	4.01	12.63	46,325	3,670	5		N
29-2	28	09/13/21	1 / 27	4.01	12.63	78,900	6,250	2		N
29-3	28	09/13/21	1 / 27	4.01	12.63	74,015	5,860	2		N
29-4	28	09/13/21	1 / 27	4.01	12.63	70,935	5,620	2		N
29-5	56 H	10/11/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3670**, 28 Day - **5910**

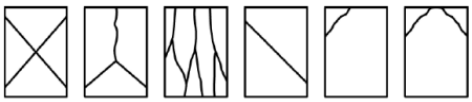
Tested By: David Nunez (1,2,3,4)
Checked In : 08/17/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 16 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000059
Report Date: 09/16/2021
Sample: 49415

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	30	**Technician:**	Caperton, Mason	**Batched:**	10:28 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	11:30 MDT
Specimens In Set:	5	**Date Cast:**	08/17/21	**Cast:**	11:45 MDT
Truck / Ticket #:	157 / 86205289	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Manhole Base
Location Details: PLAN: STORM-12, STMH 9-12
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	142.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	7.5 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

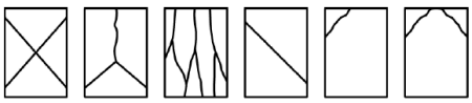
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
30-1	7	08/24/21	1 / 6	4.02	12.69	60,515	4,770	3		N
30-2	28	09/14/21	1 / 27	3.99	12.50	85,715	6,860	2		N
30-3	28	09/14/21	1 / 27	3.99	12.50	81,020	6,480	2		N
30-4	28	09/14/21	1 / 27	3.99	12.50	85,835	6,870	2		N
30-5	56 H	10/12/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4770**, 28 Day - **6740**

Tested By: David Nunez (1,2,3,4)
Checked In : 08/18/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000068
Report Date: 09/28/2021
Sample: 49480

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	31	**Technician:**	Caperton, Mason	**Batched:**	10:30 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	11:30 MDT
Specimens In Set:	5	**Date Cast:**	08/18/21	**Cast:**	11:45 MDT
Truck / Ticket #:	9221 / 86205384	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Inlet: Wall
Location Details: PLAN: STORM 13 & POND OUTLET, Inlet 2-9
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	140.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	80	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	7.8 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 65/75

Field Cure

Lab Test Results

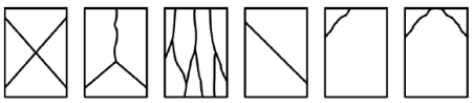
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
31-1	7	08/25/21	1 / 6	4.02	12.69	48,490	3,820	2		N
31-2	29	09/16/21	1 / 28	4.00	12.57	57,175	4,550	5		N
31-3	29	09/16/21	1 / 28	4.00	12.57	55,930	4,450	5		N
31-4	29	09/16/21	1 / 28	4.00	12.57	56,805	4,520	5		N
31-5	56 H	10/13/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3820**, 29 Day - **4510**

Tested By: David Nunez (1,2,3,4)
Checked In : 08/19/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000069
Report Date: 09/28/2021
Sample: 49606

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	32	**Technician:**	Caperton, Mason	**Batched:**	10:32 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	11:30 MDT
Specimens In Set:	5	**Date Cast:**	08/20/21	**Cast:**	11:45 MDT
Truck / Ticket #:	9238 / 86205512	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Inlet: Wall
Location Details: PLAN: STORM-6, Inlet 2-6
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	140.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	8.0 (ASTM C231)
				Load Volume:	8.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

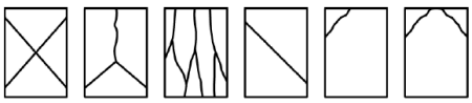
Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
32-1	11	08/31/21	4 / 7	4.01	12.63	57,210	4,530	2		N
32-2	28	09/17/21	4 / 24	4.00	12.57	59,905	4,770	3		N
32-3	28	09/17/21	4 / 24	4.00	12.57	59,395	4,730	5		N
32-4	28	09/17/21	4 / 24	4.00	12.57	58,795	4,680	3		N
32-5	56 H	10/15/21	4 / 52							

Test Age Average Strengths (psi): 11 Day - **4530**, 28 Day - **4720**

Tested By: David Nunez (1,2,3,4)
Checked In : 08/24/2021 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000070
Report Date: 09/28/2021
Sample: 49726

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	33	**Technician:**	Caperton, Mason	**Batched:**	08:28 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	10:00 MDT
Specimens In Set:	5	**Date Cast:**	08/25/21	**Cast:**	10:15 MDT
Truck / Ticket #:	0622 / 21113224	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Storm Sewer Manhole
Location Details: PLAN: STORM-12A, STMH 6-12, base.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Martin Marietta Materials **Mix Design:** A4557
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	144.2 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	5.5 (ASTM C231)
				Load Volume:	5.25 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
33-1	7	09/01/21	1 / 6	4.01	12.63	62,840	4,980	4		N
33-2	28	09/22/21	1 / 27	4.00	12.57	69,790	5,550	2		N
33-3	28	09/22/21	1 / 27	4.00	12.57	72,235	5,750	3		N
33-4	28	09/22/21	1 / 27	4.00	12.57	69,770	5,550	5		N
33-5	56 H	10/20/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4980**, 28 Day - **5620**

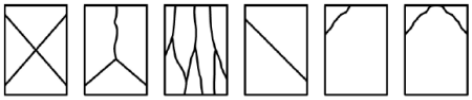
Tested By: David Nunez (1,2,3,4)
Checked In : 08/26/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

5.25 of 5.25 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000071
Report Date: 09/28/2021
Sample: 49801

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	34	**Technician:**	Caperton, Mason	**Batched:**	10:38 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	11:30 MDT
Specimens In Set:	5	**Date Cast:**	08/26/21	**Cast:**	11:45 MDT
Truck / Ticket #:	9258 / 62314273	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Storm Sewer Manhole
Location Details: PLAN: STORM-12, STMH 14-12, base.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	142.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	85 (ASTM C1064)	**Air Content:**	6.5 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
34-1	7	09/02/21	1 / 6	4.01	12.63	54,640	4,330	2		N
34-2	28	09/23/21	1 / 27	4.02	12.69	63,270	4,990	5		N
34-3	28	09/23/21	1 / 27	4.02	12.69	66,770	5,260	5		N
34-4	28	09/23/21	1 / 27	4.02	12.69	63,220	4,980	5		N
34-5	56 H	10/21/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4330**, 28 Day - **5080**

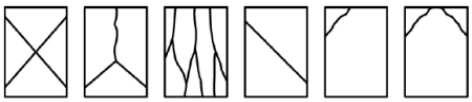
Tested By: David Nunez (1,2,3,4)
Checked In : 08/27/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 20 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000072
Report Date: 09/28/2021
Sample: 49903

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	35	**Technician:**	Caperton, Mason	**Batched:**	10:56 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	12:00 MDT
Specimens In Set:	5	**Date Cast:**	08/27/21	**Cast:**	12:15 MDT
Truck / Ticket #:	9221 / 86205741	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Inlet: Top
Location Details: PLAN: STORM-5B, Inlet 1-5.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	143.0 (lb/ft³) (ASTM C138)
Air Temperature (F):	80	**Concrete Temp (F):**	85 (ASTM C1064)	**Air Content:**	6.5 (ASTM C231)
				Load Volume:	9.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
35-1	7	09/03/21	3 / 4	4.01	12.63	49,415	3,910	6		N
35-2	28	09/24/21	3 / 25	4.00	12.57	60,370	4,800	4		N
35-3	28	09/24/21	3 / 25	3.99	12.50	63,430	5,070	4		N
35-4	28	09/24/21	3 / 25	4.00	12.57	65,690	5,230	4		N
35-5	56 H	10/22/21	3 / 53							

Test Age Average Strengths (psi): 7 Day - **3910**, 28 Day - **5030**

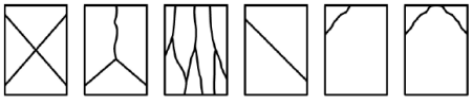
Tested By: David Nunez (1,2,3,4)
Checked In : 08/30/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

9 of 9 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000086
Report Date: 10/27/2021
Sample: 49964

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	36	**Technician:**	Caperton, Mason	**Batched:**	09:14 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	10:15 MDT
Specimens In Set:	5	**Date Cast:**	08/31/21	**Cast:**	10:30 MDT
Truck / Ticket #:	1804 / 37254736	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location:	Manhole Base
Location Details:	PLAN: STORM-12, STMH 8A-12.
Sample Location / Notes:	Cylinders left NTP

Batch Log

Supplier:	Martin Marietta Materials	**Mix Design:**	A4557
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	146.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	5.0 (ASTM C231)
				Load Volume:	9.50 (yd³)

Standard Cure

Min / Max Temp (F):	63/95
Initial Cure Method:	Bucket with water, open lid
Final Cure Method:	ASTM C511

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
36-1	7	09/07/21	1 / 6	4.02	12.69	53,720	4,230	2		N
36-2	28	09/28/21	1 / 27	4.00	12.57	61,635	4,900	5		N
36-3	28	09/28/21	1 / 27	4.00	12.57	62,830	5,000	5		N
36-4	28	09/28/21	1 / 27	4.00	12.57	64,495	5,130	2		N
36-5	56 H	10/26/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4230**, 28 Day - **5010**

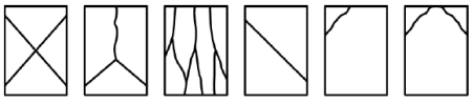
Tested By: David Nunez (1,2,3,4,5)
Checked In : 09/01/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

9.50 of 9.50 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000087
Report Date: 10/27/2021
Sample: 49991

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	37	**Technician:**	Cunningham, Travis	**Batched:**	14:05 MDT
Specimen Size:	4" X 8"	**Cast By:**	Cunningham, Travis	**Sampled:**	14:32 MDT
Specimens In Set:	5	**Date Cast:**	08/31/21	**Cast:**	14:47 MDT
Truck / Ticket #:	9220 / 62314571	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Storm Sewer Manhole
Location Details: Belford Avenue, STMH 10-12.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	140.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	88	**Concrete Temp (F):**	85 (ASTM C1064)	**Air Content:**	5.9 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 63/95
Initial Cure Method: Bucket with water, open lid
Final Cure Method: ASTM C511

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
37-1	7	09/07/21	1 / 6	4.02	12.69	49,190	3,880	2		N
37-2	28	09/28/21	1 / 27	4.02	12.69	59,130	4,660	5		N
37-3	28	09/28/21	1 / 27	4.00	12.57	55,710	4,430	2		N
37-4	28	09/28/21	1 / 27	4.00	12.57	55,515	4,420	3		N
37-5	56 H	10/26/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3880**, 28 Day - **4500**

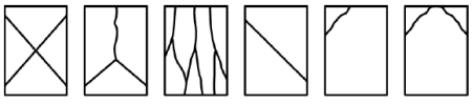
Tested By: David Nunez (1,2,3,4,5)
Checked In : 09/01/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 10 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000088
Report Date: 10/27/2021
Sample: 50074

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	38	**Technician:**	Cunningham, Travis	**Batched:**	11:31 MDT
Specimen Size:	4" X 8"	**Cast By:**	Cunningham, Travis	**Sampled:**	12:25 MDT
Specimens In Set:	5	**Date Cast:**	09/01/21	**Cast:**	12:40 MDT
Truck / Ticket #:	9628 / 86205950	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Manhole Base
Location Details: STMH11A-12, Plan Storm-12
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Cloudy	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	139.0 (lb/ft³) (ASTM C138)
Air Temperature (F):	84	**Concrete Temp (F):**	81 (ASTM C1064)	**Air Content:**	7.5 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 64/87
Initial Cure Method: Bucket with water, open lid
Final Cure Method: ASTM C511

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
38-1	7	09/08/21	1 / 6	4.00	12.57	41,470	3,300	6		N
38-2	28	09/29/21	1 / 27	4.00	12.57	63,880	5,080	4		N
38-3	28	09/29/21	1 / 27	3.99	12.50	62,905	5,030	4		N
38-4	28	09/29/21	1 / 27	4.00	12.57	60,055	4,780	4		N
38-5	56 H	10/27/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3300**, 28 Day - **4960**

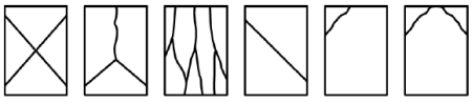
Tested By: David Nunez (1,2,3,4,5)
Checked In : 09/02/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 10 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000089
Report Date: 10/27/2021
Sample: 50122

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	39	**Technician:**	Cunningham, Travis	**Batched:**	14:45 MDT
Specimen Size:	4" X 8"	**Cast By:**	Cunningham, Travis	**Sampled:**	15:28 MDT
Specimens In Set:	5	**Date Cast:**	09/02/21	**Cast:**	15:43 MDT
Truck / Ticket #:	1708 / 42018747	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Storm Sewer Main
Location Details: Belford Avenue, STMH 1-12, Plan: Storm-12.
Sample Location / Notes: NTP

Batch Log

Supplier: Martin Marietta Materials
Mix Design: A4557
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	143.8 (lb/ft³) (ASTM C138)
Air Temperature (F):	85	**Concrete Temp (F):**	78 (ASTM C1064)	**Air Content:**	5.5 (ASTM C231)
				Load Volume:	8.50 (yd³)

Standard Cure

Min / Max Temp (F): 59/81
Initial Cure Method: Bucket with water, open lid
Final Cure Method: ASTM C511

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
39-1	7	09/09/21	1 / 6	4.01	12.63	54,285	4,300	6		N
39-2	28	09/30/21	1 / 27	3.99	12.50	68,105	5,450	4		N
39-3	28	09/30/21	1 / 27	3.99	12.50	75,215	6,020	4		N
39-4	28	09/30/21	1 / 27	3.99	12.50	76,525	6,120	4		N
39-5	56 H	10/28/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4300**, 28 Day - **5860**

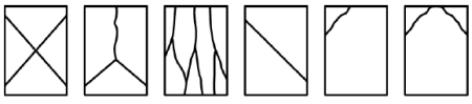
Tested By: David Nunez (1,2,3,4)
Checked In : 09/03/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

8.50 of 8.50 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000090
Report Date: 10/27/2021
Sample: 50123

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	40	**Technician:**	Cunningham, Travis	**Batched:**	06:43 MDT
Specimen Size:	4" X 8"	**Cast By:**	Cunningham, Travis	**Sampled:**	07:37 MDT
Specimens In Set:	5	**Date Cast:**	09/02/21	**Cast:**	07:52 MDT
Truck / Ticket #:	1409 / 23105740	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Storm Sewer Main
Location Details: Belford Avenue, STMH 2-12, Plan: Storm-12.
Sample Location / Notes: NTP

Batch Log

Supplier: Martin Marietta Materials **Mix Design:** A4557
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	145.4 (lb/ft³) (ASTM C138)
Air Temperature (F):	68	**Concrete Temp (F):**	71 (ASTM C1064)	**Air Content:**	5.3 (ASTM C231)
				Load Volume:	7.00 (yd³)

Standard Cure

Min / Max Temp (F): 59/81
Initial Cure Method: Bucket with water, open lid
Final Cure Method: ASTM C511

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
40-1	7	09/09/21	1 / 6	4.01	12.63	53,080	4,200	6		N
40-2	28	09/30/21	1 / 27	3.99	12.50	76,645	6,130	4		N
40-3	28	09/30/21	1 / 27	3.99	12.50	75,070	6,010	4		N
40-4	28	09/30/21	1 / 27	3.99	12.50	76,310	6,110	4		N
40-5	56 H	10/28/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4200**, 28 Day - **6080**

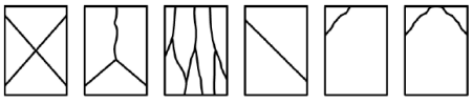
Tested By: David Nunez (1,2,3,4)
Checked In : 09/03/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

7 of 7 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000091
Report Date: 10/27/2021
Sample: 50124

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	41	**Technician:**	Cunningham, Travis	**Batched:**	11:47 MDT
Specimen Size:	4" X 8"	**Cast By:**	Cunningham, Travis	**Sampled:**	12:15 MDT
Specimens In Set:	5	**Date Cast:**	09/02/21	**Cast:**	12:30 MDT
Truck / Ticket #:	167 / 62314722	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Storm Sewer Main
Location Details: STMH 14-12, Plan: Storm-12.
Sample Location / Notes: NTP

Batch Log

Supplier: Martin Marietta Materials **Mix Design:** A4557
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	140.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	85	**Concrete Temp (F):**	82 (ASTM C1064)	**Air Content:**	5.5 (ASTM C231)
				Load Volume:	6.00 (yd³)

Standard Cure

Min / Max Temp (F): 59/81
Initial Cure Method: Bucket with water, open lid
Final Cure Method: ASTM C511

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
41-1	7	09/09/21	1 / 6	4.01	12.63	55,995	4,430	6		N
41-2	28	09/30/21	1 / 27	3.99	12.50	76,185	6,100	4		N
41-3	28	09/30/21	1 / 27	3.99	12.50	76,885	6,150	4		N
41-4	28	09/30/21	1 / 27	3.99	12.50	76,120	6,090	4		N
41-5	56 H	10/28/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4430**, 28 Day - **6110**

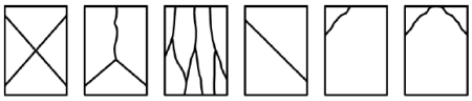
Tested By: David Nunez (1,2,3,4)
Checked In : 09/03/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

6 of 6 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000092
Report Date: 10/27/2021
Sample: 50336

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	42	**Technician:**	Caperton, Mason	**Batched:**	12:01 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	12:45 MDT
Specimens In Set:	5	**Date Cast:**	09/09/21	**Cast:**	13:00 MDT
Truck / Ticket #:	680 / 62315046	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Manhole Base
Location Details: PLAN: STORM-12, STMH 11-12.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	142.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	85 (ASTM C1064)	**Air Content:**	6.5 (ASTM C231)
				Load Volume:	6.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
42-1	7	09/16/21	1 / 6	4.00	12.57	55,770	4,440	2		N
42-2	28	10/07/21	1 / 27	4.00	12.57	63,445	5,050	2		N
42-3	28	10/07/21	1 / 27	4.00	12.57	66,240	5,270	3		N
42-4	28	10/07/21	1 / 27	4.00	12.57	66,010	5,250	5		N
42-5	56 H	11/04/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4440**, 28 Day - **5190**

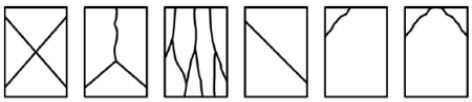
Tested By: David Nunez (1,2,3,4)
Checked In : 09/10/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

6 of 12 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000093
Report Date: 10/27/2021
Sample: 50351

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	43	**Technician:**	Caperton, Mason	**Batched:**	11:39 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	12:30 MDT
Specimens In Set:	5	**Date Cast:**	09/10/21	**Cast:**	12:45 MDT
Truck / Ticket #:	157 / 86206148	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Inlet: Base
Location Details: PLAN: STORM-4, Inlet 2-4.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	141.4 (lb/ft³) (ASTM C138)
Air Temperature (F):	80	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	7.0 (ASTM C231)
				Load Volume:	7.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
43-1	7	09/17/21	1 / 6	4.00	12.57	48,310	3,840	6		N
43-2	28	10/08/21	1 / 27	4.00	12.57	55,315	4,400	2		N
43-3	28	10/08/21	1 / 27	4.00	12.57	57,665	4,590	3		N
43-4	28	10/08/21	1 / 27	4.00	12.57	57,870	4,600	5		N
43-5	56 H	11/05/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3840**, 28 Day - **4530**

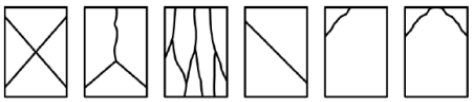
Tested By: David Nunez (1,2,3,4)
Checked In : 09/11/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

7 of 7 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000073
Report Date: 10/13/2021
Sample: 50435

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	44	**Technician:**	Caperton, Mason	**Batched:**	11:09 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	11:45 MDT
Specimens In Set:	5	**Date Cast:**	09/13/21	**Cast:**	12:00 MDT
Truck / Ticket #:	9236 / 62315279	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Inlet: Wall
Location Details: PLAN: STORM-4, Inlet 1-4.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Windy	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	143.0 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	7.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
44-1	7	09/20/21	1 / 6	4.02	12.69	50,225	3,960	6		N
44-2	28	10/11/21	1 / 27	4.00	12.57	67,445	5,370	2		N
44-3	28	10/11/21	1 / 27	4.00	12.57	67,780	5,390	5		N
44-4	28	10/11/21	1 / 27	4.00	12.57	68,750	5,470	2		N
44-5	56 H	11/08/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3960**, 28 Day - **5410**

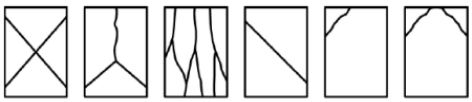
Tested By: David Nunez (1,2,3,4)
Checked In : 09/14/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

20 of 35 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000097
Report Date: 11/09/2021
Sample: 50961

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	47	**Technician:**	Caperton, Mason	**Batched:**	15:21 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	16:30 MDT
Specimens In Set:	5	**Date Cast:**	09/27/21	**Cast:**	16:45 MDT
Truck / Ticket #:	8481 / 21115270	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Manhole Base
Location Details: PLAN: STORM-4, STMH 2-4.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Martin Marietta Materials **Mix Design:** A4557
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	146.2 (lb/ft³) (ASTM C138)
Air Temperature (F):	75	**Concrete Temp (F):**	70 (ASTM C1064)	**Air Content:**	5.0 (ASTM C231)
				Load Volume:	6.50 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
47-1	7	10/04/21	1 / 6	4.00	12.57	52,275	4,160	2		N
47-2	28	10/25/21	1 / 27	4.00	12.57	60,375	4,800	3		N
47-3	28	10/25/21	1 / 27	4.00	12.57	60,660	4,830	3		N
47-4	28	10/25/21	1 / 27	4.00	12.57	62,930	5,010	4		N
47-5	56 H	11/22/21	1 / 55							

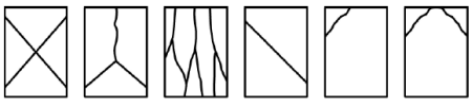
Test Age Average Strengths (psi): 7 Day - **4160**, 28 Day - **4880**

Tested By: David Nunez (1,2,3,4)
Checked In : 09/28/2021 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)

General Remarks

6.5 of 6.5 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000105
Report Date: 11/09/2021
Sample: 51546

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	56	**Technician:**	Caperton, Mason	**Batched:**	14:24 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	15:45 MDT
Specimens In Set:	5	**Date Cast:**	10/11/21	**Cast:**	16:00 MDT
Truck / Ticket #:	168 / 62316897	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman Construction	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Cut-off Wall
Location Details: Conspan under Belford Avenue, south cut-off wall.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7454120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	141.8 (lb/ft³) (ASTM C138)
Air Temperature (F):	65	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	7.5 (ASTM C231)
				Load Volume:	6.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
56-1	7	10/18/21	2 / 5	4.00	12.57	53,840	4,280	3		N
56-2	28	11/08/21	2 / 26	4.00	12.57	63,910	5,080	3		N
56-3	28	11/08/21	2 / 26	4.00	12.57	60,235	4,790	5		N
56-4	28	11/08/21	2 / 26	4.00	12.57	61,530	4,900	2		N
56-5	56 H	12/06/21	2 / 54							

Test Age Average Strengths (psi): 7 Day - **4280**, 28 Day - **4920**

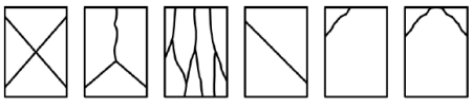
Tested By: David Nunez (1,2,3,4)
Checked In : 10/13/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

6 of 12 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000119
Report Date: 11/23/2021
Sample: 51841

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	57	**Technician:**	Caperton, Mason	**Batched:**	11:19 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	12:30 MDT
Specimens In Set:	5	**Date Cast:**	10/18/21	**Cast:**	12:45 MDT
Truck / Ticket #:	8830 / 21116732	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Iron Woman	**Placement Method:**	Bucket	**Placement Time:**	

Location

Placement Location: Manhole Base
Location Details: PLAN: STORM-4, STMH 1-4.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Martin Marietta Materials **Mix Design:** A4557
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	144.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	60	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	5.0 (ASTM C231)
				Load Volume:	9.50 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
57-1	7	10/25/21	2 / 5	4.00	12.57	53,960	4,290	4		N
57-2	28	11/15/21	2 / 26	4.00	12.57	71,415	5,680	5		N
57-3	28	11/15/21	2 / 26	4.02	12.69	66,675	5,250	3		N
57-4	28	11/15/21	2 / 26	4.00	12.57	68,885	5,480	3		N
57-5	56 H	12/13/21	2 / 54							

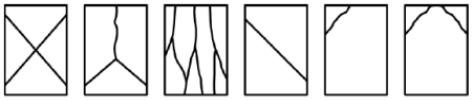
Test Age Average Strengths (psi): 7 Day - **4290**, 28 Day - **5470**

Tested By: David Nunez (1,2,3,4)
Checked In : 10/20/2021 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)

General Remarks

9.5 of 9.5 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000120
Report Date: 11/23/2021
Sample: 51867

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	58	**Technician:**	Caperton, Mason	**Batched:**	07:00 MDT
Specimen Size:	4" X 8"	**Cast By:**	Caperton, Mason	**Sampled:**	08:20 MDT
Specimens In Set:	5	**Date Cast:**	10/21/21	**Cast:**	08:35 MDT
Truck / Ticket #:	142 / 62317462	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Machine	**Placement Time:**	

Location

Placement Location: Curb and Gutter
Location Details: Belford Avenue, eastbound, Station 42+00.
Sample Location / Notes: Cylinders left NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456101
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	139.4 (lb/ft³) (ASTM C138)
Air Temperature (F):	55	**Concrete Temp (F):**	70 (ASTM C1064)	**Air Content:**	8.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 65/75	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
58-1	7	10/28/21	1 / 6	4.00	12.57	47,175	3,750	6		N
58-2	28	11/18/21	1 / 27	4.00	12.57	55,360	4,400	3		N
58-3	28	11/18/21	1 / 27	4.02	12.69	57,835	4,560	5		N
58-4	28	11/18/21	1 / 27	4.00	12.57	57,365	4,560	5		N
58-5	56 H	12/16/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3750**, 28 Day - **4510**

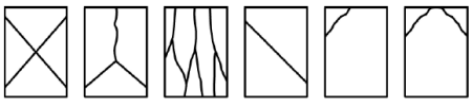
Tested By: David Nunez (1,2,3,4)
Checked In : 10/22/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 130 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000121
Report Date: 11/23/2021
Sample: 51876

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	59	**Technician:**	Bierbower, Bryce	**Batched:**	13:29 MDT
Specimen Size:	4" X 8"	**Cast By:**	Bierbower, Bryce	**Sampled:**	14:00 MDT
Specimens In Set:	5	**Date Cast:**	10/21/21	**Cast:**	14:15 MDT
Truck / Ticket #:	9313 / 62317496	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Curb and Gutter
Location Details: Belford Avenue, Eastbound, Station 16+00.
Sample Location / Notes: NTP

Batch Log

Supplier:	Aggregate Industries	**Mix Design:**	7456101
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Cloudy	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	142.3 (lb/ft³) (ASTM C138)
Air Temperature (F):	57	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	7.2 (ASTM C231)
				Load Volume:	130.00 (yd³)

Standard Cure | **Field Cure**

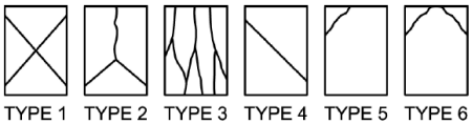
Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
59-1	7	10/28/21	4 / 3	4.02	12.69	50,605	3,990	3		N
59-2	28	11/18/21	4 / 24	4.00	12.57	61,735	4,910	5		N
59-3	28	11/18/21	4 / 24	4.00	12.57	59,230	4,710	2		N
59-4	28	11/18/21	4 / 24	4.00	12.57	63,010	5,010	5		N
59-5	56 H	12/16/21	4 / 52							

Test Age Average Strengths (psi): 7 Day - **3990**, 28 Day - **4880**

Tested By: David Nunez (1,2,3,4)
Checked In : 10/25/2021 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000138
Report Date: 12/08/2021
Sample: 52632

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	71	**Technician:**	Rodriguez, Jose	**Batched:**	09:44 MST
Specimen Size:	4" X 8"	**Cast By:**	Rodriguez, Jose	**Sampled:**	10:15 MST
Specimens In Set:	5	**Date Cast:**	11/09/21	**Cast:**	10:25 MST
Truck / Ticket #:	169 / 62318614	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Water Main Crossing E470
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:		**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	141.2 (lb/ft³) (ASTM C138)
Air Temperature (F):		**Concrete Temp (F):**	64 (ASTM C1064)	**Air Content:**	6.4 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure | **Field Cure**

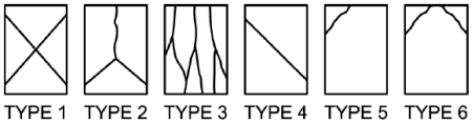
Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
71-1	10	11/19/21	0 / 10	4.00	12.57	58,955	4,690	3		N
71-2	28	12/07/21	0 / 28	4.00	12.57	64,500	5,130	3		N
71-3	28	12/07/21	0 / 28	4.00	12.57	70,625	5,620	2		N
71-4	28	12/07/21	0 / 28	4.00	12.57	65,745	5,230	5		N
71-5	56 H	01/04/22	0 / 56							

Test Age Average Strengths (psi): 10 Day - **4690**, 28 Day - **5330**

Tested By: David Nunez (1,2,3,4)
Checked In : 11/09/2021 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000146
Report Date: 01/10/2022
Sample: 52816

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	72	**Technician:**	Eisenberg, Alexander	**Batched:**	09:56 MST
Specimen Size:	4" X 8"	**Cast By:**	Eisenberg, Alexander	**Sampled:**	10:30 MST
Specimens In Set:	5	**Date Cast:**	11/11/21	**Cast:**	10:45 MST
Truck / Ticket #:	168 / 62318732	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	3sons	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Inlet: Top
Location Details: Inlet 1-4 and 2-4
Sample Location / Notes: Ntp

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:		**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	144.3 (lb/ft³) (ASTM C138)
Air Temperature (F):		**Concrete Temp (F):**	81 (ASTM C1064)	**Air Content:**	5.0 (ASTM C231)
				Load Volume:	12.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 60/80	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
72-1	7	11/18/21	5 / 2	4.00	12.57	51,585	4,100	5		N
72-2	28	12/09/21	5 / 23	4.00	12.57	61,115	4,860	5		N
72-3	28	12/09/21	5 / 23	4.00	12.57	64,185	5,110	5		N
72-4	28	12/09/21	5 / 23	4.00	12.57	62,450	4,970	5		N
72-5	56 H	01/06/22	5 / 51							

Test Age Average Strengths (psi): 7 Day - **4100**, 28 Day - **4980**

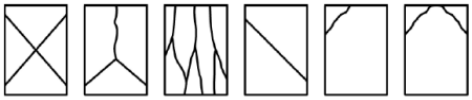
Tested By: David Nunez (1,2,3,4,5)
Checked In : 11/16/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

12 of 12 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000147
Report Date: 01/10/2022
Sample: 53030

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	73	**Technician:**	Bierbower, Bryce	**Batched:**	10:14 MST
Specimen Size:	4" X 8"	**Cast By:**	Bierbower, Bryce	**Sampled:**	11:00 MST
Specimens In Set:	5	**Date Cast:**	11/18/21	**Cast:**	11:15 MST
Truck / Ticket #:	9232 / 62319001	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three sons	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location:	Inlet: Top
Location Details:	Belford Avenue, Inlet 26
Sample Location / Notes:	NTP

Batch Log

Supplier:	Aggregate Industries	**Mix Design:**	7456120
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	140.8 (lb/ft³) (ASTM C138)
Air Temperature (F):	41	**Concrete Temp (F):**	74 (ASTM C1064)	**Air Content:**	5.8 (ASTM C231)
				Load Volume:	8.00 (yd³)

Standard Cure		Field Cure
Min / Max Temp (F):	64/68	

Lab Test Results

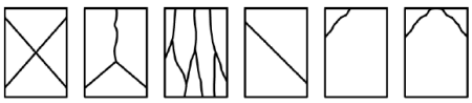
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
73-1	7	11/25/21	1 / 6	4.00	12.57	65,015	5,170	5		N
73-2	28	12/16/21	1 / 27	4.00	12.57	81,430	6,480	5		N
73-3	28	12/16/21	1 / 27	4.01	12.63	79,395	6,290	5		N
73-4	28	12/16/21	1 / 27	4.00	12.57	78,800	6,270	3		N
73-5	56 H	01/13/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **5170**, 28 Day - **6340**

Tested By: David Nunez (1,2,3,4)
Checked In : 11/19/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000139
Report Date: 01/05/2022
Sample: 53276

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	74	**Technician:**	Bross, Terrance	**Batched:**	09:48 MST
Specimen Size:	4" X 8"	**Cast By:**	Bross, Terrance	**Sampled:**	10:30 MST
Specimens In Set:	5	**Date Cast:**	11/29/21	**Cast:**	10:45 MST
Truck / Ticket #:	9262 / 62319415	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three sons construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location:	Inlet: Wall
Location Details:	Belford avenue EBL, inlet 1.3.
Sample Location / Notes:	NTP

Batch Log

Supplier:	Aggregate Industries	**Mix Design:**	7456120
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	140.0 (lb/ft³) (ASTM C138)
Air Temperature (F):	67	**Concrete Temp (F):**	82 (ASTM C1064)	**Air Content:**	6.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure		Field Cure
Min / Max Temp (F):	64/68	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
74-1	7	12/06/21	2 / 5	4.00	12.57	62,060	4,940	6		N
74-2	28	12/27/21	2 / 26	4.00	12.57	67,820	5,400	3		N
74-3	28	12/27/21	2 / 26	4.02	12.69	72,290	5,700	3		N
74-4	28	12/27/21	2 / 26	4.00	12.57	75,720	6,020	3		N
74-5	56 H	01/24/22	2 / 54							

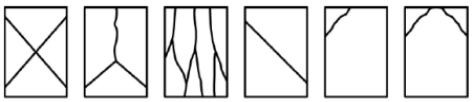
Test Age Average Strengths (psi): 7 Day - **4940**, 28 Day - **5710**

Tested By: David Nunez (1,2,3,4)
Checked In : 12/01/2021 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 19 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000140
Report Date: 01/05/2022
Sample: 53507

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	77	**Technician:**	Bierbower, Bryce	**Batched:**	10:46 MST
Specimen Size:	4" X 8"	**Cast By:**	Bierbower, Bryce	**Sampled:**	12:30 MST
Specimens In Set:	5	**Date Cast:**	12/03/21	**Cast:**	12:45 MST
Truck / Ticket #:	9104 / 62319747	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Belford Avenue, at Inlet 2.4.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	138.7 (lb/ft³) (ASTM C138)
Air Temperature (F):	53	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	6.8 (ASTM C231)
				Load Volume:	6.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 64/68	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
77-1	7	12/10/21	1 / 6	4.00	12.57	54,680	4,350	5		N
77-2	28	12/31/21	1 / 27	4.00	12.57	64,915	5,160	5		N
77-3	28	12/31/21	1 / 27	4.02	12.69	61,850	4,870	5		N
77-4	28	12/31/21	1 / 27	4.00	12.57	65,315	5,200	3		N
77-5	56 H	01/28/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4350**, 28 Day - **5080**

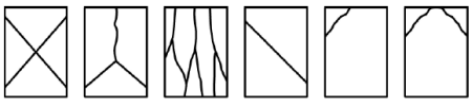
Tested By: David Nunez (1,2,3,4)
Checked In : 12/04/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

6 of 6 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000150
Report Date: 01/12/2022
Sample: 53707

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	81	**Technician:**	Sinclair, Tyler	**Batched:**	10:17 MST
Specimen Size:	4" X 8"	**Cast By:**	Sinclair, Tyler	**Sampled:**	11:20 MST
Specimens In Set:	5	**Date Cast:**	12/09/21	**Cast:**	11:35 MST
Truck / Ticket #:	9237 / 62320025	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Wall
Location Details: 50' North of STMH 1-3, West side.
Sample Location / Notes: NTP

Batch Log

Supplier:	Aggregate Industries	**Mix Design:**	7456120
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3 (ASTM C143)	**Plastic Unit Weight:**	140.5 (lb/ft³) (ASTM C138)
Air Temperature (F):	60	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	6.5 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 15/70	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
81-1	7	12/16/21	4 / 3	4.00	12.57	59,410	4,730	5		N
81-2	28	01/06/22	4 / 24	4.00	12.57	71,720	5,710	3		N
81-3	28	01/06/22	4 / 24	4.00	12.57	70,875	5,640	3		N
81-4	28	01/06/22	4 / 24	4.00	12.57	72,510	5,770	3		N
81-5	56 H	02/03/22	4 / 52							

Test Age Average Strengths (psi): 7 Day - **4730**, 28 Day - **5700**

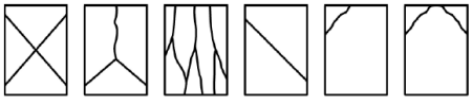
Tested By: David Nunez (1,2,3,4)
Checked In : 12/13/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 26 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000153
Report Date: 01/18/2022
Sample: 53846

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	83	**Technician:**	Granato, Michael	**Batched:**	
Specimen Size:	4" X 8"	**Cast By:**	Granato, Michael	**Sampled:**	11:00 MST
Specimens In Set:	5	**Date Cast:**	12/16/21	**Cast:**	11:15 MST
Truck / Ticket #:		**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	3 Sons	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Inlet: Top
Location Details: Inlet 2.3
Sample Location / Notes: Ntp

Batch Log

Supplier: Aggregate Industries
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:		**Slump (in):**	3-1/2 (ASTM C143)	**Plastic Unit Weight:**	140.3 (lb/ft³) (ASTM C138)
Air Temperature (F):	50	**Concrete Temp (F):**	68 (ASTM C1064)	**Air Content:**	6.9 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure | **Field Cure**

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
83-1	7	12/23/21	1 / 6	4.00	12.57	63,475	5,050	5		N
83-2	28	01/13/22	1 / 27	4.00	12.57	73,530	5,850	3		N
83-3	28	01/13/22	1 / 27	4.00	12.57	70,350	5,600	3		N
83-4	28	01/13/22	1 / 27	4.00	12.57	71,100	5,660	3		N
83-5	56 H	02/10/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **5050**, 28 Day - **5700**

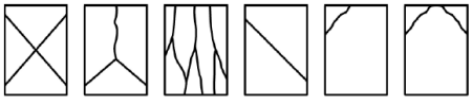
Tested By: David Nunez (1,2,3,4)
Checked In : 12/17/2021 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

no ticket



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000158
Report Date: 03/04/2022
Sample: 54586

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	85	**Technician:**	Bross, Terrance	**Batched:**	08:53 MST
Specimen Size:	4" X 8"	**Cast By:**	Bross, Terrance	**Sampled:**	10:10 MST
Specimens In Set:	5	**Date Cast:**	01/28/22	**Cast:**	10:25 MST
Truck / Ticket #:	9221 / 62321654	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three sons construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Footing
Location Details: Belford avenue, 60' north west of Station 110+00.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 9456738
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	141.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	37	**Concrete Temp (F):**	64 (ASTM C1064)	**Air Content:**	5.4 (ASTM C231)
				Load Volume:	10.50 (yd³)

Standard Cure

Min / Max Temp (F): 62/70

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
85-1	7	02/04/22	3 / 4	4.00	12.57	59,100	4,700	2		N
85-2	28	02/25/22	3 / 25	4.00	12.57	74,700	5,940	2		N
85-3	28	02/25/22	3 / 25	4.00	12.57	73,785	5,870	5		N
85-4	28	02/25/22	3 / 25	4.00	12.57	69,405	5,520	2		N
85-5	56 H	03/25/22	3 / 53							

Test Age Average Strengths (psi): 7 Day - **4700**, 28 Day - **5780**

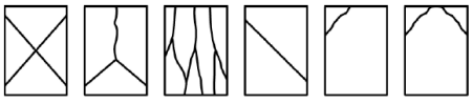
Tested By: David Nunez (1,2,3,4)
Checked In : 01/31/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

21.5 of 180 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000159
Report Date: 03/04/2022
Sample: 54594

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	86	**Technician:**	Bross, Terrance	**Batched:**	12:27 MST
Specimen Size:	4" X 8"	**Cast By:**	Bross, Terrance	**Sampled:**	12:45 MST
Specimens In Set:	5	**Date Cast:**	01/28/22	**Cast:**	13:00 MST
Truck / Ticket #:	9236 / 62321684	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three sons construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Footing
Location Details: Belford avenue, 100' northwest of Station 110+00.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 9456738
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	140.0 (lb/ft³) (ASTM C138)
Air Temperature (F):	40	**Concrete Temp (F):**	60 (ASTM C1064)	**Air Content:**	7.8 (ASTM C231)
				Load Volume:	10.50 (yd³)

Standard Cure

Min / Max Temp (F): 62/70

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
86-1	7	02/04/22	3 / 4	4.00	12.57	63,170	5,030	2		N
86-2	28	02/25/22	3 / 25	4.00	12.57	71,365	5,680	3		N
86-3	28	02/25/22	3 / 25	4.00	12.57	77,255	6,150	2		N
86-4	28	02/25/22	3 / 25	4.00	12.57	72,660	5,780	2		N
86-5	56 H	03/25/22	3 / 53							

Test Age Average Strengths (psi): 7 Day - **5030**, 28 Day - **5870**

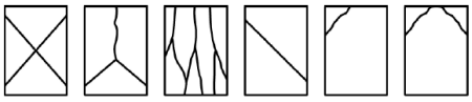
Tested By: David Nunez (1,2,3,4)
Checked In : 01/31/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

122 of 180 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000161
Report Date: 04/04/2022
Sample: 54638

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	87	**Technician:**	Bierbower, Bryce	**Batched:**	11:55 MST
Specimen Size:	4" X 8"	**Cast By:**	Bierbower, Bryce	**Sampled:**	12:30 MST
Specimens In Set:	5	**Date Cast:**	01/31/22	**Cast:**	12:45 MST
Truck / Ticket #:	168 / 62321737	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three sons	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Sidewalk running the entirety of the inside of the Conspan. East side, red concrete.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	142.7 (lb/ft³) (ASTM C138)
Air Temperature (F):	50	**Concrete Temp (F):**	74 (ASTM C1064)	**Air Content:**	8.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 64/68

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
87-1	7	02/07/22	1 / 6	4.00	12.57	37,035	2,950	5		N
87-2	28	02/28/22	1 / 27	4.00	12.57	49,995	3,980	5		N
87-3	28	02/28/22	1 / 27	4.00	12.57	49,580	3,940	3		N
87-4	28	02/28/22	1 / 27	4.00	12.57	48,555	3,860	2		N
87-5	56 H	03/28/22	1 / 55	4.00	12.57	54,645	4,350	2		N

Test Age Average Strengths (psi): 7 Day - **2950**, 28 Day - **3930**, 56 Day - **4350**

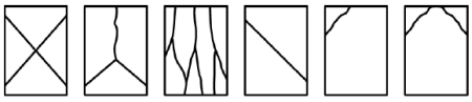
Tested By: David Nunez (1,2,3,4,5)
Checked In : 02/01/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 17 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000171
Report Date: 05/03/2022
Sample: 55428

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	88	**Technician:**	Copeland, Jeffrey	**Batched:**	11:00 MDT
Specimen Size:	4" X 8"	**Cast By:**	Copeland, Jeffrey	**Sampled:**	11:44 MDT
Specimens In Set:	5	**Date Cast:**	03/16/22	**Cast:**	11:59 MDT
Truck / Ticket #:	9221 / 62323433	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Belford Avenue 30' 20+00
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456101
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)

Field Measurements

Weather:	Partly cloudy	**Slump (in):**	2 (ASTM C143)	**Plastic Unit Weight:**	143.2 (lb/ft³) (ASTM C138)
Air Temperature (F):	33	**Concrete Temp (F):**	68 (ASTM C1064)	**Air Content:**	5.3 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 20/40

Field Cure

Lab Test Results

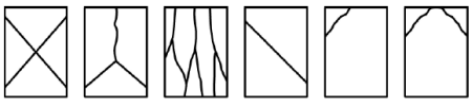
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
88-1	7	03/23/22	2 / 5	4.00	12.57	47,640	3,790	5		N
88-2	28	04/13/22	2 / 26	4.00	12.57	61,305	4,880	3		N
88-3	28	04/13/22	2 / 26	4.00	12.57	67,570	5,380	5		N
88-4	28	04/13/22	2 / 26	4.00	12.57	63,575	5,060	2		N
88-5	56 H	05/11/22	2 / 54							

Test Age Average Strengths (psi): 7 Day - **3790**, 28 Day - **5100**

Tested By: David Nunez (1,2,3,4)
Checked In : 03/18/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000172
Report Date: 05/03/2022
Sample: 55465

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	89	**Technician:**	Jagim, Kenneth	**Batched:**	08:35 MDT
Specimen Size:	4" X 8"	**Cast By:**	Jagim, Kenneth	**Sampled:**	09:00 MDT
Specimens In Set:	5	**Date Cast:**	03/23/22	**Cast:**	09:15 MDT
Truck / Ticket #:	9220 / 62323614	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons	**Placement Method:**	Conveyor	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Belford Avenue, eastbound lane, 300 feet east of South Peoria Street.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456101
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Windy	**Slump (in):**	2 (ASTM C143)	**Plastic Unit Weight:**	143.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	40	**Concrete Temp (F):**	70 (ASTM C1064)	**Air Content:**	5.5 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 40/50

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
89-1	7	03/30/22	1 / 6	4.00	12.57	57,750	4,590	5		N
89-2	28	04/20/22	1 / 27	4.00	12.57	69,805	5,550	2		N
89-3	28	04/20/22	1 / 27	4.00	12.57	69,040	5,490	2		N
89-4	28	04/20/22	1 / 27	4.00	12.57	65,045	5,180	2		N
89-5	56 H	05/18/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4590**, 28 Day - **5410**

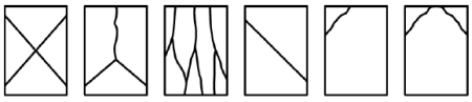
Tested By: David Nunez (1,2,3,4)
Checked In : 03/24/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 10 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000173
Report Date: 05/03/2022
Sample: 55468

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	90	**Technician:**	Jagim, Kenneth	**Batched:**	10:00 MDT
Specimen Size:	4" X 8"	**Cast By:**	Jagim, Kenneth	**Sampled:**	10:30 MDT
Specimens In Set:	7	**Date Cast:**	03/23/22	**Cast:**	10:45 MDT
Truck / Ticket #:	142 / 62323626	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons	**Placement Method:**	Conveyor	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Belford Avenue, eastbound lane, 50 feet east of South Peoria Street.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456101
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Windy	**Slump (in):**	2 (ASTM C143)	**Plastic Unit Weight:**	139.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	40	**Concrete Temp (F):**	70 (ASTM C1064)	**Air Content:**	7.5 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 40/50

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
90-1	3	03/26/22	1 / 2	4.00	12.57	47,745	3,800	2		N
90-2	7	03/30/22	1 / 6	4.00	12.57	51,020	4,060	5		N
90-3	28	04/20/22	1 / 27	4.01	12.63	62,040	4,910	2		N
90-4	28	04/20/22	1 / 27	4.00	12.57	63,210	5,030	2		N
90-5	28	04/20/22	1 / 27	4.00	12.57	69,010	5,490	3		N
90-6	56	05/18/22	1 / 55							
90-7	56 H	05/18/22	1 / 55							

Test Age Average Strengths (psi): 3 Day - **3800**, 7 Day - **4060**, 28 Day - **5140**

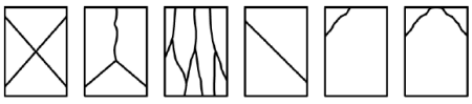
Tested By: David Nunez (1,2,3,4,5)
Checked In : 03/24/2022 (1,2,3,4,5,6,7)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 60 yards, Sidewalk pour crossed county lines from Parker into Douglas. City inspector requested another test and set of cylinders for Douglas County specifications.



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000170
Report Date: 05/03/2022
Sample: 55312

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	91	**Technician:**	Copeland, Jeffrey	**Batched:**	08:31 MDT
Specimen Size:	4" X 8"	**Cast By:**	Copeland, Jeffrey	**Sampled:**	08:44 MDT
Specimens In Set:	5	**Date Cast:**	03/15/22	**Cast:**	08:58 MDT
Truck / Ticket #:	9236 / 62323319	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Machine	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Belford Avenue, Eastbound lane, STA 28+50
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456101
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	3-1/2 (ASTM C143)	**Plastic Unit Weight:**	138.4 (lb/ft³) (ASTM C138)
Air Temperature (F):	30	**Concrete Temp (F):**	65 (ASTM C1064)	**Air Content:**	6.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 20/41

Field Cure

Lab Test Results

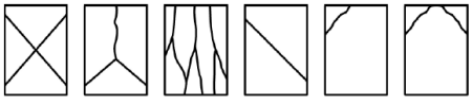
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
91-1	7	03/22/22	1 / 6	4.00	12.57	47,225	3,760	6		N
91-2	28	04/12/22	1 / 27	4.00	12.57	58,775	4,680	6		N
91-3	28	04/12/22	1 / 27	4.00	12.57	60,965	4,850	3		N
91-4	28	04/12/22	1 / 27	4.00	12.57	54,930	4,370	2		N
91-5	56 H	05/10/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3760**, 28 Day - **4630**

Tested By: David Nunez (1,2,3,4)
Checked In : 03/16/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000174
Report Date: 05/03/2022
Sample: 55559

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	92	**Technician:**	Classen, AJ	**Batched:**	09:07 MDT
Specimen Size:	4" X 8"	**Cast By:**	Classen, AJ	**Sampled:**	09:45 MDT
Specimens In Set:	8	**Date Cast:**	03/24/22	**Cast:**	10:00 MDT
Truck / Ticket #:	9207 / 62323716	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	3 Sons	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Belford Avenue, 30 feet east of Peoria Street, westbound lane.
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:		**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	137.6 (lb/ft³) (ASTM C138)
Air Temperature (F):	45	**Concrete Temp (F):**	85 (ASTM C1064)	**Air Content:**	5.4 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 40/65	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
92-1	3 FC	03/27/22	/							
92-2	7	03/31/22	1 / 6	4.00	12.57	48,155	3,830	3		N
92-3	28	04/21/22	1 / 27	4.00	12.57	58,370	4,640	2		N
92-4	28	04/21/22	1 / 27	4.00	12.57	59,590	4,740	2		N
92-5	28	04/21/22	1 / 27	4.00	12.57	61,875	4,920	2		N
92-6	56	05/19/22	1 / 55							
92-7	56 H	05/19/22	1 / 55							
92-8	5	03/29/22	5 / 0	4.00	12.57	44,730	3,560	5		N

Test Age Average Strengths (psi): 7 Day - **3830**, 28 Day - **4770**, 5 Day - **3560**

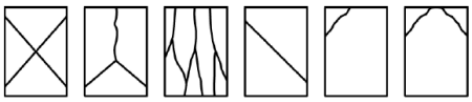
Tested By: David Nunez (2,3,4,5,8)
Checked In : 03/25/2022 (2,3,4,5,6,7), 03/29/2022 (8)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 10 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000177
Report Date: 05/03/2022
Sample: 55789

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	93	**Technician:**	Zegan, Jason	**Batched:**	09:13 MDT
Specimen Size:	4" X 8"	**Cast By:**	Zegan, Jason	**Sampled:**	10:01 MDT
Specimens In Set:	5	**Date Cast:**	03/29/22	**Cast:**	10:16 MDT
Truck / Ticket #:	160 / 86210168	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	3 Sons	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Inlet: Base
Location Details: 3' West of North First Street, 250' South of North First Street dead end Inlet (Type R).

Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:		**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	145.9 (lb/ft³) (ASTM C138)
Air Temperature (F):		**Concrete Temp (F):**	68 (ASTM C1064)	**Air Content:**	5.3 (ASTM C231)
				Load Volume:	4.00 (yd³)

Standard Cure | **Field Cure**

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
93-1	7	04/05/22	2 / 5	4.00	12.57	52,785	4,200	3		N
93-2	28	04/26/22	2 / 26	4.00	12.57	64,950	5,170	2		N
93-3	28	04/26/22	2 / 26	4.00	12.57	66,380	5,280	6		N
93-4	28	04/26/22	2 / 26	4.00	12.57	63,570	5,060	2		N
93-5	56 H	05/24/22	2 / 54							

Test Age Average Strengths (psi): 7 Day - **4200**, 28 Day - **5170**

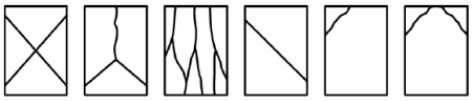
Tested By: David Nunez (1,2,3,4)
Checked In : 03/31/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

4 of 4 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000179
Report Date: 05/04/2022
Sample: 56051

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	94	**Technician:**	Veen, Thomas	**Batched:**	10:13 MDT
Specimen Size:	4" X 8"	**Cast By:**	Veen, Thomas	**Sampled:**	10:30 MDT
Specimens In Set:	5	**Date Cast:**	04/04/22	**Cast:**	10:45 MDT
Truck / Ticket #:	9612 / 62324348	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location:	Wall
Location Details:	Conspan Wall B.
Sample Location / Notes:	NTP

Batch Log

Supplier:	Aggregate Industries	**Mix Design:**	60B65BA
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	144.7 (lb/ft³) (ASTM C138)
Air Temperature (F):	50	**Concrete Temp (F):**	81 (ASTM C1064)	**Air Content:**	6.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 30/120	

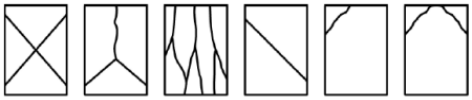
Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
94-1	7	04/11/22	2 / 5	4.00	12.57	47,145	3,750	5		N
94-2	28	05/02/22	2 / 26	4.00	12.57	60,955	4,850	6		N
94-3	28	05/02/22	2 / 26	4.00	12.57	60,465	4,810	2		N
94-4	28	05/02/22	2 / 26	4.00	12.57	61,045	4,860	5		N
94-5	56 H	05/30/22	2 / 54							

Test Age Average Strengths (psi): 7 Day - **3750**, 28 Day - **4840**

Tested By: David Nunez (1,2,3,4)
Checked In : 04/06/2022 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000175
Report Date: 05/03/2022
Sample: 55610

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	95	**Technician:**	Stuebner, Jon	**Batched:**	09:51 MDT
Specimen Size:	4" X 8"	**Cast By:**	Stuebner, Jon	**Sampled:**	10:30 MDT
Specimens In Set:	5	**Date Cast:**	03/25/22	**Cast:**	10:45 MDT
Truck / Ticket #:	9227 / 62323830	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Wing Wall
Location Details: Wing Wall C, 20 feet south of Belford Avenue.
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 9456738
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	6-1/2 (ASTM C143)	**Plastic Unit Weight:**	141.3 (lb/ft³) (ASTM C138)
Air Temperature (F):	42	**Concrete Temp (F):**	82 (ASTM C1064)	**Air Content:**	6.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 41/64

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
95-1	7	04/01/22	1 / 6	4.00	12.57	42,865	3,410	5		N
95-2	28	04/22/22	1 / 27	4.00	12.57	56,775	4,520	2		N
95-3	28	04/22/22	1 / 27	4.00	12.57	57,050	4,540	2		N
95-4	28	04/22/22	1 / 27	4.00	12.57	59,090	4,700	5		N
95-5	18 H	04/12/22	1 / 17	4.00	12.57	52,025	4,140	2		N

Test Age Average Strengths (psi): 7 Day - **3410**, 28 Day - **4590**, 18 Day - **4140**

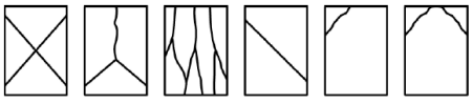
Tested By: David Nunez (1,2,3,4,5)
Checked In : 03/26/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 10 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000176
Report Date: 05/03/2022
Sample: 55612

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	96	**Technician:**	Stuebner, Jon	**Batched:**	11:05 MDT
Specimen Size:	4" X 8"	**Cast By:**	Stuebner, Jon	**Sampled:**	12:00 MDT
Specimens In Set:	5	**Date Cast:**	03/25/22	**Cast:**	12:15 MDT
Truck / Ticket #:	9236 / 62323845	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons	**Placement Method:**	Pump	**Placement Time:**	

Location

Placement Location: Wing Wall
Location Details: Wing Wall C, 40 feet south of Belford Avenue.
Sample Location / Notes: NTP

Batch Log

On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	6-1/2 (ASTM C143)	**Plastic Unit Weight:**	140.5 (lb/ft³) (ASTM C138)
Air Temperature (F):	89	**Concrete Temp (F):**	89 (ASTM C1064)	**Air Content:**	5.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 41/64

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
96-1	7	04/01/22	1 / 6	4.00	12.57	45,620	3,630	6		N
96-2	28	04/22/22	1 / 27	4.00	12.57	60,245	4,790	3		N
96-3	28	04/22/22	1 / 27	4.00	12.57	61,725	4,910	2		N
96-4	28	04/22/22	1 / 27	4.00	12.57	60,720	4,830	3		N
96-5	18 H	04/12/22	1 / 17	4.00	12.57	51,275	4,080	2		N

Test Age Average Strengths (psi): 7 Day - **3630**, 28 Day - **4850**, 18 Day - **4080**

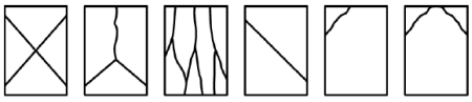
Tested By: David Nunez (1,2,3,4,5)
Checked In : 03/26/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 50 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000182
Report Date: 06/08/2022
Sample: 57081

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	99	**Technician:**	Englehardt, Casey	**Batched:**	07:17 MDT
Specimen Size:	4" X 8"	**Cast By:**	Englehardt, Casey	**Sampled:**	08:15 MDT
Specimens In Set:	5	**Date Cast:**	05/05/22	**Cast:**	08:30 MDT
Truck / Ticket #:	3808 / 2094524	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Machine	**Placement Time:**	

Location

Placement Location: Curb and Gutter
Location Details: Belford Avenue, Lot 48, Block 3, 15' north of Lot 48
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145812D
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	2-3/4 (ASTM C143)	**Plastic Unit Weight:**	142.7 (lb/ft³) (ASTM C138)
Air Temperature (F):	47	**Concrete Temp (F):**	63 (ASTM C1064)	**Air Content:**	6.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 53/84

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
99-1	7	05/12/22	1 / 6	4.00	12.57	67,275	5,350	2		N
99-2	28	06/02/22	1 / 27	4.00	12.57	77,605	6,170	2		N
99-3	28	06/02/22	1 / 27	4.00	12.57	80,835	6,430	2		N
99-4	28	06/02/22	1 / 27	4.00	12.57	81,465	6,480	2		N
99-5	56 H	06/30/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **5350**, 28 Day - **6360**

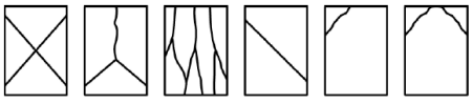
Tested By: David Nunez (1,2,3,4)
Checked In : 05/06/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 120 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000183
Report Date: 06/08/2022
Sample: 57097

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	100	**Technician:**	Englehardt, Casey	**Batched:**	11:25 MDT
Specimen Size:	4" X 8"	**Cast By:**	Englehardt, Casey	**Sampled:**	13:10 MDT
Specimens In Set:	5	**Date Cast:**	05/05/22	**Cast:**	13:25 MDT
Truck / Ticket #:	3808 / 2094920	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Machine	**Placement Time:**	

Location

Placement Location: Curb and Gutter
Location Details: Belford Avenue, Lot 24, Block 3, 15' north of Lot 24
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145812D
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	1 (ASTM C143)	**Plastic Unit Weight:**	145.1 (lb/ft³) (ASTM C138)
Air Temperature (F):	58	**Concrete Temp (F):**	80 (ASTM C1064)	**Air Content:**	5.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 53/84

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
100-1	7	05/12/22	1 / 6	4.00	12.57	63,215	5,030	2		N
100-2	28	06/02/22	1 / 27	4.00	12.57	79,095	6,290	2		N
100-3	28	06/02/22	1 / 27	4.00	12.57	74,145	5,900	3		N
100-4	28	06/02/22	1 / 27	4.00	12.57	74,850	5,960	2		N
100-5	56 H	06/30/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **5030**, 28 Day - **6050**

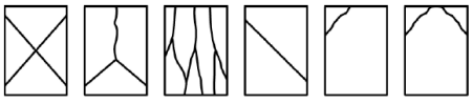
Tested By: David Nunez (1,2,3,4)
Checked In : 05/06/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

120 of 140 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000184
Report Date: 06/10/2022
Sample: 57275

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	101	**Technician:**	Vandenboogaard, Brett	**Batched:**	08:15 MDT
Specimen Size:	4" X 8"	**Cast By:**	Vandenboogaard, Brett	**Sampled:**	09:10 MDT
Specimens In Set:	5	**Date Cast:**	05/11/22	**Cast:**	09:25 MDT
Truck / Ticket #:	3884 / 2099352	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Ramp, 5' west of southwest corner of intersection between Belford Avenue and Lynx Cat Street
Sample Location / Notes: NTP

Batch Log

Supplier:	Brannan Ready Mix	**Mix Design:**	145814D
On-Site Admixtures:	None		

Specifications

Strength:	4500 (psi)
Air:	5 - 8 (%)
Slump:	1 - 4 (in)

Field Measurements

Weather:	Sunny	**Slump (in):**	5 (ASTM C143)	**Plastic Unit Weight:**	143.8 (lb/ft³) (ASTM C138)
Air Temperature (F):	73	**Concrete Temp (F):**	71 (ASTM C1064)	**Air Content:**	6.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 56/78	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
101-1	7	05/18/22	1 / 6	4.00	12.57	62,095	4,940	5		N
101-2	28	06/08/22	1 / 27	4.00	12.57	74,750	5,950	3		N
101-3	28	06/08/22	1 / 27	4.00	12.57	74,095	5,900	3		N
101-4	28	06/08/22	1 / 27	4.01	12.63	73,060	5,790	2		N
101-5	56 H	07/06/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4940**, 28 Day - **5880**

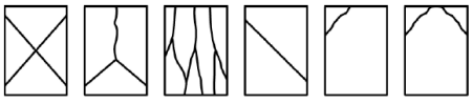
Tested By: David Nunez (1,2,3,4)
Checked In : 05/12/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 65 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000185
Report Date: 06/10/2022
Sample: 57486

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	102	**Technician:**	Davis, Jadon	**Batched:**	08:04 MDT
Specimen Size:	4" X 8"	**Cast By:**	Davis, Jadon	**Sampled:**	08:51 MDT
Specimens In Set:	5	**Date Cast:**	05/12/22	**Cast:**	09:06 MDT
Truck / Ticket #:	1188 / 2100257	**Sampled From:**	Machine	**Truck Empty:**	
Contractor:	Three sons	**Placement Method:**	Machine	**Placement Time:**	

Location

Placement Location: Curb and Gutter
Location Details: Belford Avenue, northbound lane, 30' east of Wilcox Street
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145812D
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:		**Slump (in):**	2 (ASTM C143)	**Plastic Unit Weight:**	138.7 (lb/ft³) (ASTM C138)
Air Temperature (F):	48	**Concrete Temp (F):**	76 (ASTM C1064)	**Air Content:**	7.1 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure | **Field Cure**

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
102-1	7	05/19/22	1 / 6	4.00	12.57	75,515	6,010	2		N
102-2	28	06/09/22	1 / 27	4.00	12.57	92,735	7,380	2		N
102-3	28	06/09/22	1 / 27	4.00	12.57	87,555	6,970	3		N
102-4	28	06/09/22	1 / 27	4.00	12.57	91,435	7,270	3		N
102-5	56 H	07/07/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **6010**, 28 Day - **7210**

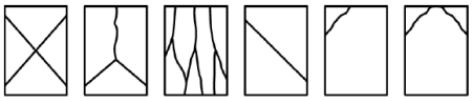
Tested By: David Nunez (1,2,3,4)
Checked In : 05/13/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 60 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000188
Report Date: 06/17/2022
Sample: 57494

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	103	**Technician:**	Davis, Jadon	**Batched:**	10:11 MDT
Specimen Size:	4" X 8"	**Cast By:**	Davis, Jadon	**Sampled:**	10:35 MDT
Specimens In Set:	5	**Date Cast:**	05/13/22	**Cast:**	10:50 MDT
Truck / Ticket #:	1185 / 21011411	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three sons	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Curb and Gutter
Location Details: Belford Avenue, eastbound lane 20' east of Wilcox Street
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145814D
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:		**Slump (in):**	2 1/2 (ASTM C143)	**Plastic Unit Weight:**	139.1 (lb/ft³) (ASTM C138)
Air Temperature (F):	51	**Concrete Temp (F):**	78 (ASTM C1064)	**Air Content:**	5.2 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure | **Field Cure**

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
103-1	7	05/20/22	1 / 6	4.00	12.57	56,600	4,500	3		N
103-2	28	06/10/22	1 / 27	4.01	12.63	66,435	5,260	3		N
103-3	28	06/10/22	1 / 27	4.00	12.57	66,615	5,300	3		N
103-4	28	06/10/22	1 / 27	4.00	12.57	66,100	5,260	3		N
103-5	56 H	07/08/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4500**, 28 Day - **5270**

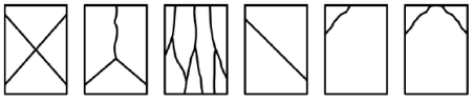
Tested By: David Nunez (1,2,3,4)
Checked In : 05/14/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

20 of 20 yards, First truck failed both of the air test with at 12.1 then a 4.1 so the first truck got dismissed so I tested the second and third truck .



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000193
Report Date: 06/22/2022
Sample: 57662

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	104	**Technician:**	Boling, Bryan	**Batched:**	14:23 MDT
Specimen Size:	4" X 8"	**Cast By:**	Boling, Bryan	**Sampled:**	16:00 MDT
Specimens In Set:	5	**Date Cast:**	05/19/22	**Cast:**	16:10 MDT
Truck / Ticket #:	3801 / 2106627	**Sampled From:**	Chute	**Truck Empty:**	16:10 MDT
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	107 (min)

Location

Placement Location: Curb and Gutter
Location Details: Belford Avenue, 5' west of Inlet 2-3
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145814D
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:		**Slump (in):**	3-1/2 (ASTM C143)	**Plastic Unit Weight:**	146.4 (lb/ft³) (ASTM C138)
Air Temperature (F):	84	**Concrete Temp (F):**	88 (ASTM C1064)	**Air Content:**	6.0 (ASTM C231)
				Load Volume:	6.00 (yd³)

Standard Cure

Min / Max Temp (F): 36/87
Initial Cure Method: Cooler, closed lid

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
104-1	7	05/26/22	1 / 6	4.00	12.57	47,530	3,780	5		N
104-2	29	06/17/22	1 / 28	4.00	12.57	61,245	4,870	2		N
104-3	29	06/17/22	1 / 28	4.00	12.57	59,790	4,760	3		N
104-4	29	06/17/22	1 / 28	4.00	12.57	62,810	5,000	2		N
104-5	56 H	07/14/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **3780**, 29 Day - **4880**

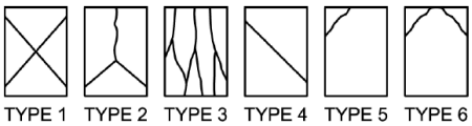
Tested By: David Nunez (1,2,3,4)
Checked In : 05/20/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

6 of 6 yards, The 1st Field Test failed with a Air of 4.3. The concrete company decided to add 1/2 bag of air mix.



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000198
Report Date: 07/14/2022
Sample: 58076

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	105	**Technician:**	Pacheco, Alfredo	**Batched:**	13:28 MDT
Specimen Size:	4" X 8"	**Cast By:**	Pacheco, Alfredo	**Sampled:**	14:45 MDT
Specimens In Set:	5	**Date Cast:**	06/03/22	**Cast:**	15:00 MDT
Truck / Ticket #:	9631 / 67683885	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Sabell's Civil And Landscape	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Curb and Gutter
Location Details: Belford Avenue, 50' west of inlet 1-1
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Partly cloudy	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	141.0 (lb/ft³) (ASTM C138)
Air Temperature (F):	64	**Concrete Temp (F):**	75 (ASTM C1064)	**Air Content:**	8.0 (ASTM C231)
				Load Volume:	7.25 (yd³)

Standard Cure

Min / Max Temp (F): 45/76

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
105-1	7	06/10/22	1 / 6	4.00	12.57	57,295	4,560	2		N
105-2	28	07/01/22	1 / 27	4.00	12.57	70,580	5,620	2		N
105-3	28	07/01/22	1 / 27	4.02	12.69	70,150	5,530	2		N
105-4	28	07/01/22	1 / 27	4.00	12.57	65,970	5,250	2		N
105-5	56 H	07/29/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4560**, 28 Day - **5460**

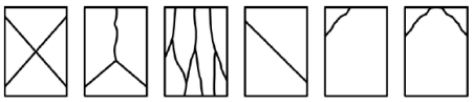
Tested By: David Nunez (1,2,3,4)
Checked In : 06/04/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

7.25 of 7.25 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000197
Report Date: 07/14/2022
Sample: 57493

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Sample Details

Set #:	108	**Technician:**	Sinclair, Tyler	**Batched:**	10:25 MDT
Specimen Size:	4" X 8"	**Cast By:**	Sinclair, Tyler	**Sampled:**	11:10 MDT
Specimens In Set:	5	**Date Cast:**	05/13/22	**Cast:**	11:25 MDT
Truck / Ticket #:	9263 / 86211156	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Naranjo Civil Constructors	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Sidewalk R&R
Location Details: Belford Avenue, STA:59+00
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 9456623
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	3-1/2 (ASTM C143)	**Plastic Unit Weight:**	139.3 (lb/ft³) (ASTM C138)
Air Temperature (F):	78	**Concrete Temp (F):**	72 (ASTM C1064)	**Air Content:**	8.0 (ASTM C231)
				Load Volume:	7.50 (yd³)

Standard Cure	Field Cure
Min / Max Temp (F): 40/80	

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
108-1	7	05/20/22	4 / 3	4.00	12.57	50,070	3,980	2		N
108-2	28	06/10/22	4 / 24	4.00	12.57	57,405	4,570	5		N
108-3	28	06/10/22	4 / 24	4.00	12.57	54,975	4,370	2		N
108-4	28	06/10/22	4 / 24	4.00	12.57	55,855	4,440	2		N
108-5	56 H	07/08/22	4 / 52	4.00	12.57	63,160	5,030	2		N

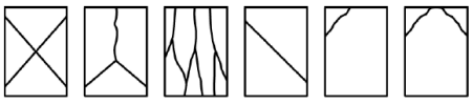
Test Age Average Strengths (psi): 7 Day - **3980**, 28 Day - **4460**, 56 Day - **5030**

Tested By: David Nunez (1,2,3,4,5)
Checked In : 05/17/2022 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)

General Remarks

7.5 of 7.5 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000199
Report Date: 07/20/2022
Sample: 58652

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria Street and Belford Avenue
Parker, CO 00000

Sample Details

Set #:	109	**Technician:**	Kramer, Griffin	**Batched:**	05:20 MDT
Specimen Size:	4" X 8"	**Cast By:**	Kramer, Griffin	**Sampled:**	06:25 MDT
Specimens In Set:	5	**Date Cast:**	06/17/22	**Cast:**	06:40 MDT
Truck / Ticket #:	370 / 2125020	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Machine	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Belford Avenue, station 77+00
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145812D
On-Site Admixtures: 5.00 Gal Water (10 yd³)

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	1/2 (ASTM C143)	**Plastic Unit Weight:**	142.7 (lb/ft³) (ASTM C138)
Air Temperature (F):	60	**Concrete Temp (F):**	76 (ASTM C1064)	**Air Content:**	6.3 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 56/97

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
109-1	7	06/24/22	1 / 6	4.00	12.57	66,520	5,290	2		N
109-2	28	07/15/22	1 / 27	4.00	12.57	81,175	6,460	2		N
109-3	28	07/15/22	1 / 27	4.00	12.57	86,215	6,860	3		N
109-4	28	07/15/22	1 / 27	4.01	12.63	79,110	6,260	2		N
109-5	56 H	08/12/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **5290**, 28 Day - **6530**

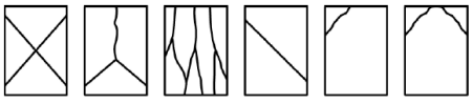
Tested By: David Nunez (1,2,3,4)
Checked In : 06/18/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 200 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000200
Report Date: 07/20/2022
Sample: 58732

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria Street and Belford Avenue
Parker, CO 00000

Sample Details

Set #:	110	**Technician:**	Kramer, Griffin	**Batched:**	11:28 MDT
Specimen Size:	4" X 8"	**Cast By:**	Kramer, Griffin	**Sampled:**	13:15 MDT
Specimens In Set:	5	**Date Cast:**	06/17/22	**Cast:**	13:30 MDT
Truck / Ticket #:	3824 / 2125630	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction LLC	**Placement Method:**	Machine	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Belford Avenue, STA 66+00
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145812D
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	1-1/4 (ASTM C143)	**Plastic Unit Weight:**	141.5 (lb/ft³) (ASTM C138)
Air Temperature (F):	94	**Concrete Temp (F):**	90 (ASTM C1064)	**Air Content:**	7.1 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 56/97

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
110-1	7	06/24/22	1 / 6	4.02	12.69	55,615	4,380	3		N
110-2	28	07/15/22	1 / 27	4.00	12.57	64,880	5,160	3		N
110-3	28	07/15/22	1 / 27	4.00	12.57	66,885	5,320	3		N
110-4	28	07/15/22	1 / 27	4.00	12.57	71,230	5,670	3		N
110-5	56 H	08/12/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4380**, 28 Day - **5380**

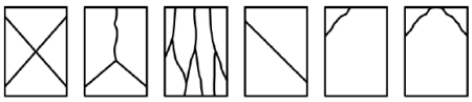
Tested By: David Nunez (1,2,3,4)
Checked In : 06/18/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

120 of 200 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000201
Report Date: 07/20/2022
Sample: 58816

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria Street and Belford Avenue
Parker, CO 00000

Sample Details

Set #:	111	**Technician:**	Salcido, Nain	**Batched:**	06:14 MDT
Specimen Size:	4" X 8"	**Cast By:**	Salcido, Nain	**Sampled:**	07:20 MDT
Specimens In Set:	5	**Date Cast:**	06/21/22	**Cast:**	07:35 MDT
Truck / Ticket #:	1301 / 2127468	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction	**Placement Method:**	Machine	**Placement Time:**	

Location

Placement Location: Sidewalk
Location Details: Belford Avenue, STA 49+00
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145812D
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Partly cloudy	**Slump (in):**	1-1/2 (ASTM C143)	**Plastic Unit Weight:**	141.5 (lb/ft³) (ASTM C138)
Air Temperature (F):	68	**Concrete Temp (F):**	70 (ASTM C1064)	**Air Content:**	6.0 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure | **Field Cure**

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
111-1	7	06/28/22	1 / 6	4.00	12.57	59,695	4,750	2		N
111-2	28	07/19/22	1 / 27	4.00	12.57	65,940	5,250	2		N
111-3	28	07/19/22	1 / 27	4.00	12.57	64,385	5,120	3		N
111-4	28	07/19/22	1 / 27	4.00	12.57	60,615	4,820	5		N
111-5	56 H	08/16/22	1 / 55							

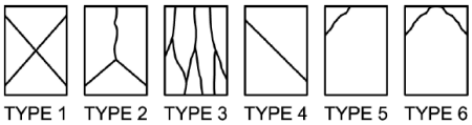
Test Age Average Strengths (psi): 7 Day - **4750**, 28 Day - **5060**

Tested By: David Nunez (1,2,3,4)
Checked In : 06/22/2022 (1,2,3,4,5)

Capping Methods
N: Unbonded Caps (ASTM C1231)

General Remarks

30 of 105 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000206
Report Date: 08/08/2022
Sample: 59357

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria Street and Belford Avenue
Parker, CO 00000

Sample Details

Set #:	112	**Technician:**	Killingsworth, Kris	**Batched:**	08:15 MDT
Specimen Size:	4" X 8"	**Cast By:**	Killingsworth, Kris	**Sampled:**	10:30 MDT
Specimens In Set:	5	**Date Cast:**	07/01/22	**Cast:**	10:43 MDT
Truck / Ticket #:	351 / 2136462	**Sampled From:**	Chute	**Truck Empty:**	
Contractor:	Three Sons Construction, LLC	**Placement Method:**	Chute	**Placement Time:**	

Location

Placement Location: Curb and Gutter R&R
Location Details: Belford Avenue, eastbound side, 900' west of Badger Run Street
Sample Location / Notes: NTP

Batch Log

Supplier: Brannan Ready Mix
Mix Design: 145814D
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	141.3 (lb/ft³) (ASTM C138)
Air Temperature (F):	86	**Concrete Temp (F):**	74 (ASTM C1064)	**Air Content:**	5.6 (ASTM C231)
				Load Volume:	10.00 (yd³)

Standard Cure

Min / Max Temp (F): 74/78

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
112-1	7	07/08/22	1 / 6	4.00	12.57	52,400	4,170	5		N
112-2	28	07/29/22	1 / 27	4.00	12.57	65,820	5,240	2		N
112-3	28	07/29/22	1 / 27	4.00	12.57	64,365	5,120	2		N
112-4	28	07/29/22	1 / 27	4.00	12.57	62,545	4,980	2		N
112-5	56 H	08/26/22	1 / 55							

Test Age Average Strengths (psi): 7 Day - **4170**, 28 Day - **5110**

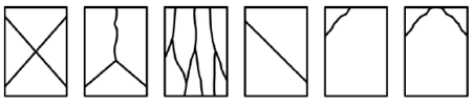
Tested By: David Nunez (1,2,3,4)
Checked In : 07/02/2022 (1,2,3,4,5)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

10 of 10 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

Compressive Strength of Concrete

Test Method: ASTM C 39

Report #: CC-000208
Report Date: 08/23/2022
Sample: 60121

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria Street and Belford Avenue
Parker, CO 00000

Sample Details

Set #:	113	**Technician:**	Boling, Bryan	**Batched:**	13:55 MDT
Specimen Size:	4" X 8"	**Cast By:**	Boling, Bryan	**Sampled:**	14:55 MDT
Specimens In Set:	6	**Date Cast:**	07/21/22	**Cast:**	15:05 MDT
Truck / Ticket #:	V619 / 86213505	**Sampled From:**	Chute	**Truck Empty:**	15:05 MDT
Contractor:	Three Sons Construction	**Placement Method:**	Chute	**Placement Time:**	70 (min)

Location

Placement Location: Sidewalk R&R
Location Details: Belford Avenue, STA:12+00
Sample Location / Notes: NTP

Batch Log

Supplier: Aggregate Industries
Mix Design: 7456120
On-Site Admixtures: None

Specifications

Strength: 4500 (psi)
Air: 5 - 8 (%)
Slump: 1 - 4 (in)

Field Measurements

Weather:	Clear	**Slump (in):**	4 (ASTM C143)	**Plastic Unit Weight:**	143.2 (lb/ft³) (ASTM C138)
Air Temperature (F):	92	**Concrete Temp (F):**	84 (ASTM C1064)	**Air Content:**	6.9 (ASTM C231)
				Load Volume:	6.00 (yd³)

Standard Cure

Min / Max Temp (F): 66/93
Initial Cure Method: Cooler with water, open lid

Field Cure

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
113-1	4	07/25/22	1 / 3	4.00	12.57	52,245	4,160	3		N
113-2	7	07/28/22	1 / 6	4.00	12.57	58,535	4,660	2		N
113-3	28	08/18/22	1 / 27	4.00	12.57	63,300	5,040	3		N
113-4	28	08/18/22	1 / 27	4.00	12.57	62,310	4,960	6		N
113-5	28	08/18/22	1 / 27	4.00	12.57	64,735	5,150	2		N
113-6	56 H	09/15/22	1 / 55							

Test Age Average Strengths (psi): 4 Day - **4160**, 7 Day - **4660**, 28 Day - **5050**

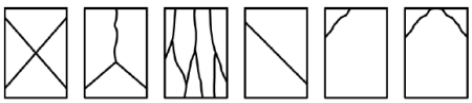
Tested By: David Nunez (1,2,3,4,5)
Checked In : 07/22/2022 (1,2,3,4,5,6)

Capping Methods

N: Unbonded Caps (ASTM C1231)

General Remarks

6 of 6 yards



Reviewed by Thomas Hastings

Sample obtained in general conformance with ASTM C172. Compressive strength conducted in general conformance with ASTM C39. The Contractor was informed of field testing results. The Contractor is responsible for security and initial curing environment of the specimens in accordance with ASTM C31. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000002
Report Date: 5/14/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 4/8/2021 **Placement Location:** Inlet: Base **Placement Method:** Bucket **Technician:** Caperton, Mason
Weather: Clear **Location Details:** PLAN:STORM-2, Inlet 2-2. **Mix Design:** 145813G (4500 psi) **Specified Strength (psi):** 4500
15 of 15 yards
Contractor: Three Sons Construction **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
45109	2	0000 1881995	7 / 7	Batched: 14:35 MDT Arrived: 15:30 MDT		Slump: 3 in. Spec: 1 - 4	Result: 5.0 Spec: 5.0 - 8.0	143.4	70	65	None			FT

Placement Notes - Sample 45109: 7 of 15 yards

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000003
Report Date: 06/03/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 05/21/21 **Placement Location:** Inlet: Wall **Placement Method:** Pump **Technician:** Yakubets, Marc
Weather: Cloudy **Location Details:** PLAN STORM-1, INLET 2-1 **Mix Design:** 145813G (4500 psi)
17 of 25 yards
Contractor: Three Sons Construction **Supplier:** Ready Mix Concrete Company

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
45928	3	0417 1905497	8 / 8	Batched: 10:19 MDT Arrived: 11:10 MDT		Slump: 5 in. Spec: 1 - 4	Result: 6.2 Spec: 5.0 - 8.0	140.3	83	72	None			FT

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000004
Report Date: 08/05/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 07/20/21 **Placement Location:** Box Culvert **Placement Method:** Pump **Technician:** Kramer, Griffin
Weather: Clear **Location Details:** Conspan under Belford Avenue, station 47+00, base. **Mix Design:** 9456738 **Specified Strength (psi):** 4500
44.5 of 600 yards
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
48209	4	115 62312720	11.00 / 11	Batched: 05:58 MDT Arrived: 06:30 MDT		Slump: 6-1/4 in. Spec: 1 - 4	Result: 7.4 Spec: 5.0 - 8.0	140.6	80	63	None			FT

Placement Date: 07/20/21 **Placement Location:** Box Culvert **Placement Method:** Pump **Technician:** Kramer, Griffin
Weather: Clear **Location Details:** Conspan under Belford Avenue, station 47+00, base. **Mix Design:** 9456738 **Specified Strength (psi):** 4500
66.5 of 600 yards
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
48210	5	9220 62312722	11.00 / 11	Batched: 06:10 MDT Arrived: 06:32 MDT		Slump: 6-1/4 in. Spec: 1 - 4	Result: 7.2 Spec: 5.0 - 8.0	142.2	80	63	None			FT

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000005
Report Date: 08/27/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 08/11/21 **Placement Location:** Inlet: Base **Placement Method:** Bucket **Technician:** Caperton, Mason
Weather: Clear **Location Details:** PLAN: STORM 13 & POND OUTLET, Inlet 2-9 **Mix Design:** **Specified Strength (psi):** 4500
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
49114	6	9237 62313827	6.00 / 6	Batched: 15:06 MDT Arrived: 15:45 MDT		Slump: 3 in. Spec: 1 - 4	Result: 5.5 Spec: 5 - 8	144.6	87	80	None			FT

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000006
Report Date: 09/23/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 09/10/21 **Placement Location:** Inlet: Base **Placement Method:** Bucket **Technician:** Caperton, Mason
Weather: Clear **Location Details:** PLAN: STORM-4, Inlet 2-4. **Mix Design:** 7456120 **Specified Strength (psi):** 4500
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
50351	43	157 86206148	7.00 / 7	Batched: 11:39 MDT Arrived: 12:15 MDT		Slump: 4 in. Spec: 1 - 4	Result: 7.0 Spec: 5 - 8	141.4	80	80	None	5	4" X 8"	CC

Placement Notes - Sample 50351: 7 of 7 yards

Placement Date: 09/13/21 **Placement Location:** Inlet: Wall **Placement Method:** Pump **Technician:** Caperton, Mason
Weather: Windy **Location Details:** PLAN: STORM-4, Inlet 2-4. **Mix Design:** 7456120 **Specified Strength (psi):** 4500
30 of 35 yards
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
50436	8	9232 62315285	10.00 / 10	Batched: 11:42 MDT Arrived: 12:15 MDT		Slump: 5 in. Spec: 1 - 4	Result: 7.5 Spec: 5 - 8	141.8	75	75	None			FT

Placement Date: 09/13/21 **Placement Location:** Inlet: Wall **Placement Method:** Pump **Technician:** Caperton, Mason
Weather: Windy **Location Details:** PLAN: STORM-4, Inlet 2-4. **Mix Design:** 7456120 **Specified Strength (psi):** 4500
35 of 35 yards
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
50437	9	9237 62315289	5.00 / 5	Batched: 12:26 MDT Arrived: 12:45 MDT		Slump: 5 in. Spec: 1 - 4	Result: 6.5 Spec: 5 - 8	143.0	75	75	None			FT

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Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000007
Report Date: 10/13/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 09/22/21 **Placement Location:** Curb and Gutter **Placement Method:** Chute **Technician:** Caperton, Mason

Weather: Clear **Location Details:** Belford Avenue, eastbound, Station 11+25. **Mix Design:** 7456120 **Specified Strength (psi):** 4500

30 of 36 yards

Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
50817	10	9259 62315778	10.00 / 10	Batched: 08:22 MDT Arrived: 09:45 MDT		Slump: 4 in. Spec: 1 - 4	Result: 7.0 Spec: 5 - 8	143.8	75	70	None			FT

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Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000011
Report Date: 10/13/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 10/04/21 **Placement Location:** Curb and Gutter **Placement Method:** Machine **Technician:** Englehardt, Casey
Weather: Clear **Location Details:** 5' North of Inlet 1-2 on Belford Ave , North bound **Mix Design:** 7456101 **Specified Strength (psi):** 4500
Contractor: Three Sons Constuction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
51222	21	9612 62316443	10.00 / 10	Batched: 06:57 MDT Arrived: 07:25 MDT		Slump: 2-1/4 in. Spec: 1 - 4	Result: 5.0 Spec: 5 - 8	145.7	70	54	None			FT

Placement Date: 10/04/21 **Placement Location:** Curb and Gutter **Placement Method:** Machine **Technician:** Englehardt, Casey
Weather: Clear **Location Details:** 15' North of Inlet 1-2 on Belford Ave , North bound **Mix Design:** 7456101 **Specified Strength (psi):** 4500
Contractor: Three Sons Constuction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
51224	22	9237 62316446	10.00 / 10	Batched: 07:38 MDT Arrived: 08:09 MDT		Slump: 3-1/4 in. Spec: 1 - 4	Result: 7.1 Spec: 5 - 8	142.5	73	54	None			FT

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Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000014
Report Date: 10/27/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 10/11/21 **Placement Location:** Cut-off Wall **Placement Method:** Bucket **Technician:** Caperton, Mason

Weather: Clear **Location Details:** Conspan under Belford Avenue, south cut-off wall. **Mix Design:** 7454120 **Specified Strength (psi):** 4500

12 of 12 yards

Contractor: Iron Woman Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
51547	25	9237 62316904	6.00 / 6	Batched: 15:17 MDT Arrived: 15:45 MDT		Slump: 4 in. Spec: 1 - 4	Result: 8.0 Spec: 5 - 8	140.6	75	65	None			FT

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A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000015
Report Date: 10/27/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 09/13/21 **Placement Location:** Inlet: Wall **Placement Method:** Pump **Technician:** Caperton, Mason
Weather: Windy **Location Details:** PLAN: STORM-4, Inlet 1-4. **Mix Design:** 7456120 **Specified Strength (psi):** 4500
10 of 25 yards
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
50434	7	167 62315274	10.00 / 10	Batched: 10:14 MDT Arrived: 10:35 MDT		Slump: 5 in. Spec: 1 - 4	Result: 10.0 Spec: 5 - 8	137.0	75	75	None			FT

Placement Notes - Sample 50434: The contractor rejected the load

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000016
Report Date: 11/12/2021

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 10/21/21 **Placement Location:** Curb and Gutter **Placement Method:** Machine **Technician:** Caperton, Mason
Weather: Clear **Location Details:** Belford Avenue, eastbound, Station 41+50. **Mix Design:** 7456101 **Specified Strength (psi):** 4500
20 of 130 yards
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
51869	26	9104 62317465	10.00 / 10	Batched: 07:23 MDT Arrived: 08:15 MDT		Slump: 4 in. Spec: 1 - 4	Result: 7.0 Spec: 5 - 8	143.8	70	55	None			FT

Placement Date: 10/21/21 **Placement Location:** Curb and Gutter **Placement Method:** Machine **Technician:** Caperton, Mason
Weather: Clear **Location Details:** Belford Avenue, eastbound, Station 41+00. **Mix Design:** 7456101 **Specified Strength (psi):** 4500
30 of 130 yards
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
51870	27	9612 62317468	10.00 / 10	Batched: 07:34 MDT Arrived: 08:30 MDT		Slump: 4 in. Spec: 1 - 4	Result: 7.5 Spec: 5 - 8	142.2	70	55	None			FT

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Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000029
Report Date: 01/05/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 11/22/21 **Placement Location:** Inlet: Base **Placement Method:** Chute **Technician:** Sanchez, Bryan

Weather: **Location Details:** Belford Avenue, Drop Structure 3. **Mix Design:** 7456120

13 of 13 yards

Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
53268	49					Slump: 1-1/2 in. Spec: 1 - 4	Result: 6.0 Spec: 5 - 8	143.1	70		None			FT

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000030
Report Date: 01/05/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 11/29/21 **Placement Location:** Inlet: Wall **Placement Method:** Pump **Technician:** Bross, Terrance
Weather: Sunny **Location Details:** Belford avenue WBL, inlet 2.3. **Mix Design:** 7456120 **Specified Strength (psi):** 4500
19 of 19 yards
Contractor: Three sons construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
53278	41	9237 62319423	9.00 / 9	Batched: 10:36 MST Arrived: 10:58 MST		Slump: 4 in. Spec: 1 - 4	Result: 5.4 Spec: 5 - 8	141.6	83	69	None			FT

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A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000032
Report Date: 01/05/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 12/09/21 **Placement Location:** Wall **Placement Method:** Chute **Technician:** Sinclair, Tyler
Weather: Clear **Location Details:** 50' North of STMH 1-3, West side. **Mix Design:** 7456120 **Specified Strength (psi):** 4500
20 of 26 yards
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
53709	47	9207 62320031	10.00 / 10	Batched: 11:46 MST Arrived: 12:19 MST		Slump: 3 in. Spec: 1 - 4	Result: 6.5 Spec: 5 - 8	143.0	70	65	None			FT

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A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000035
Report Date: 02/17/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 01/28/22 **Placement Location:** Footing **Placement Method:** Chute **Technician:** Bross, Terrance
Weather: Sunny **Location Details:** Belford avenue, 50' northwest of Station 110+00. **Mix Design:** 9456738 **Specified Strength (psi):** 4500
Contractor: Three sons construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
54584	51	9273 62321651	11.00 / 11	Batched: 08:21 MST Arrived: 09:15 MST		Slump: 4 in. Spec: 1 - 4	Result: 9.0 Spec: 5 - 8	136.4	60	36	None			FT

Placement Notes - Sample 54584: 11 of 180 yards

Placement Date: 01/28/22 **Placement Location:** Footing **Placement Method:** Pump **Technician:** Bross, Terrance
Weather: Sunny **Location Details:** Belford avenue, 50' north west of Station 110+00 **Mix Design:** 9456738 **Specified Strength (psi):** 4500
Contractor: Three sons construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
54585	52	9273 62321651	11.00 / 11	Batched: 08:21 MST Arrived: 09:16 MST		Slump: 4 in. Spec: 1 - 4	Result: 3.5 Spec: 5 - 8	147.2	60	36	None			FT

Placement Notes - Sample 54585: Contractor rejected truck due to multiple failures.

Placement Date: 01/28/22 **Placement Location:** Footing **Placement Method:** Pump **Technician:** Bross, Terrance
Weather: Sunny **Location Details:** Belford avenue, 80' northwest of Station 110+00. **Mix Design:** 9456738 **Specified Strength (psi):** 4500
Contractor: Three sons construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
54587	53	9236 62321655	11.00 / 11	Batched: 09:18 MST Arrived: 09:36 MST		Slump: 4 in. Spec: 1 - 4	Result: 6.4 Spec: 5 - 8	142.0	63	37	None			FT

Placement Notes - Sample 54587: 32.5 of 180 yards

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000036
Report Date: 02/17/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 01/31/22 **Placement Location:** Sidewalk **Placement Method:** Pump **Technician:** Bierbower, Bryce

Weather: Sunny **Location Details:** Sidewalk running the entirety of the inside of the Conspan. East side, Red concrete. **Mix Design:** 7456120 **Specified Strength (psi):** 4500

Contractor: Three sons **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
54639	54	9208 62321740	7.00 / 7	Batched: 14:41 MST Arrived: 15:06 MST		Slump: 4 in. Spec: 1 - 4	Result: 8.0 Spec: 5 - 8	141.9	75		None			FT

Placement Notes - Sample 54639: 24 of 24 yards

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Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000038
Report Date: 04/08/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 03/25/22 **Placement Location:** Wing Wall **Placement Method:** Pump **Technician:** Stuebner, Jon
Weather: Clear **Location Details:** Wing Wall C, 30 feet south of Belford Avenue. **Mix Design:** **Specified Strength (psi):** 4500
Contractor: Thee Sons **Supplier:**

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
55611	65	9118 62323838	10.00 / 10	Batched: 10:23 MDT Arrived: 10:43 MDT		Slump: 6-1/2 in. Spec: 1 - 4	Result: 5.0 Spec: 5 - 8	141.3	89	42	None			FT

Placement Notes - Sample 55611: 10 of 30 yards

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Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000039
Report Date: 05/04/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 04/08/22 **Placement Location:** Wing Wall **Placement Method:** Pump **Technician:** Rodriguez, Jose

Weather: **Location Details:** Belford Avenue, Conspan, north east wing wall **Mix Design:** 60B65BA (4500 psi) **Specified Strength (psi):** 4500

Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
56096	98	160 62324709	12.00 / 12	Batched: 12:49 MDT Arrived: 13:30 MDT Empty: 13:40 MDT	51	Slump: 5 in. Spec: 1 - 4	Result: 7.0 Spec: 5 - 8	139.6	75		None	5	4" X 8"	CC

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Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000040
Report Date: 06/01/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 05/12/22 **Placement Location:** Curb and Gutter **Placement Method:** Machine **Technician:** Englehardt, Casey
Weather: Clear **Location Details:** Belford Avenue, Lot 41, Block 3, 15' north of Lot 41 **Mix Design:** 145812D **Specified Strength (psi):** 4500
Contractor: Three Sons Construction **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
57082	67	1194 2094560	10.00 / 10	Batched: 07:49 MDT Arrived: 09:00 MDT		Slump: 2 in. Spec: 1 - 4	Result: 5.0 Spec: 5 - 8	145.1	70	47	None			FT

Placement Notes - Sample 57082: 20 of 120 yards

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000041
Report Date: 06/06/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 05/12/22 **Placement Location:** Curb and Gutter **Placement Method:** Machine **Technician:** Englehardt, Casey
Weather: Clear **Location Details:** Belford Avenue, 15' north of Lot 40, Block 3 **Mix Design:** 145812D **Specified Strength (psi):** 4500
Contractor: Three Sons Construction **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
57091	68	412 2094574	10.00 / 10	Batched: 08:11 MDT Arrived: 09:30 MDT		Slump: 1-1/2 in. Spec: 5 - 8	Result: 7.0 Spec: 1 - 4	141.9	73	47	None			FT

Placement Notes - Sample 57091: 30 of 120 yards

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000042
Report Date: 06/09/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 04/04/22 **Placement Location:** Wall **Placement Method:** Chute **Technician:** Veen, Thomas
Weather: Clear **Location Details:** Storm 13 Pond & Outlet, Forebay B **Mix Design:** 60B65BA (4500 psi) **Specified Strength (psi):** 4500
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
56053	64	160 62324366	10.00 / 10			Slump: 4 in. Spec: 1 - 4	Result: 7.9 Spec: 5 - 8	146.2	75	55	None			FT

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Field Services
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Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000043
Report Date: 06/09/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 04/04/22 **Placement Location:** Wall **Placement Method:** Chute **Technician:** Veen, Thomas
Weather: Clear **Location Details:** Storm 13 Pond & Outlet, Forebay B **Mix Design:** 60B65BA (4500 psi) **Specified Strength (psi):** 4500
Contractor: Three Sons Construction **Supplier:** Aggregate Industries

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
56052	63	9262 62324359	10.00 / 10			Slump: 4 in. Spec: 1 - 4	Result: 5.6 Spec: 5 - 8	145.2	82	50	None			FT

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Concrete Placement Summary

Report #: CPS-000044
Report Date: 06/17/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 05/11/22 **Placement Location:** Crosspan **Placement Method:** Chute **Technician:** Vandenboogaard, Brett
Weather: Sunny **Location Details:** 5' east of southwest corner of intersection between Belford Avenue and Lynx Cat Street **Mix Design:** 145814D (4500 psi) **Specified Strength (psi):** 4500
Contractor: Three Sons **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
57276	69	397 2099403	10.00 / 10	Batched: 08:50 MDT Arrived: 09:50 MDT		Slump: 4-1/2 in. Spec: 1 - 4	Result: 7.1 Spec: 5 - 8	144.6	73	73	None			FT

Placement Notes - Sample 57276: 20 of 60 yards

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Field Services
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Concrete Placement Summary

Report #: CPS-000045
Report Date: 06/17/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 05/12/22 **Placement Location:** Curb and Gutter **Placement Method:** Machine **Technician:** Davis, Jadon
Weather: **Location Details:** Belford Avenue, northbound lane 40' East of Wilcox Street **Mix Design:** 145812D **Specified Strength (psi):** 4500
Contractor: Three sons **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
57487	70	3852 2100287	10.00 / 10	Batched: 08:54 MDT Arrived: 09:02 MDT		Slump: 2 in. Spec: 1 - 4	Result: 6.3 Spec: 5 - 8	140.3	80	49	None			FT

Placement Notes - Sample 57487: 20 of 60 yards

Placement Date: 05/12/22 **Placement Location:** Curb and Gutter **Placement Method:** Machine **Technician:** Davis, Jadon
Weather: **Location Details:** Belford Avenue, northbound lane 55' East of Wilcox Street **Mix Design:** 145812D **Specified Strength (psi):** 4500
Contractor: Three sons **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
57488	71	1196 2100212	10.00 / 10	Batched: 09:51 MDT Arrived: 10:09 MDT		Slump: 1 1/2 in. Spec: 1 - 4	Result: 7.0 Spec: 5 - 8	140.3	79	49	None			FT

Placement Notes - Sample 57488: 30 of 60 yards

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A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000046
Report Date: 06/17/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 05/13/22 **Placement Location:** Curb and Gutter **Placement Method:** Chute **Technician:** Davis, Jadon

Weather: **Location Details:** Belford Avenue, eastbound lane 15' East of Wilcox Street **Mix Design:** 145814D (4500 psi) **Specified Strength (psi):** 4500

Contractor: Three sons **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
57495	72	3813 2101572	10.00 / 10	Batched: 10:49 MDT Arrived: 11:04 MDT		Slump: 2 in. Spec: 1 - 4	Result: 5.1 Spec: 5 - 8	141.9	82	52	None			FT

Placement Notes - Sample 57495: 30 of 20 yards

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000047
Report Date: 06/28/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 06/17/22 **Placement Location:** Sidewalk **Placement Method:** Machine **Technician:** Kramer, Griffin
Weather: Clear **Location Details:** Belford Avenue, STA 74+00 **Mix Design:** 145812D **Specified Strength (psi):** 4500
Contractor: Three Sons Construction **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
58654	75	417 2125109	10.00 / 10	Batched: 05:54 MDT Arrived: 06:29 MDT		Slump: 1-1/4 in. Spec: 1 - 4	Result: 5.3 Spec: 5 - 8	143.9	82	60	3.00 Gal Water (9 yd³)			FT

Placement Notes - Sample 58654: 30 of 200 yards

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Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000048
Report Date: 06/28/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 06/17/22 **Placement Location:** Sidewalk **Placement Method:** Machine **Technician:** Kramer, Griffin
Weather: Clear **Location Details:** Belford Avenue, station 75+00 **Mix Design:** 145812D **Specified Strength (psi):** 4500
Contractor: Three Sons Construction **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
58653	74	364 2125064	10.00 / 10	Batched: 06:19 MDT Arrived: 06:24 MDT		Slump: 1-1/2 in. Spec: 1 - 4	Result: 8.0 Spec: 5 - 8	139.9	78	60	None			FT

Placement Notes - Sample 58653: 20 of 200 yards

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Field Services
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Englewood, CO 80110
Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000049
Report Date: 07/08/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 06/21/22 **Placement Location:** Sidewalk **Placement Method:** Machine **Technician:** Salcido, Nain
Weather: **Location Details:** Belford Avenue, STA 53+50, eastbound lane **Mix Design:** 145812D **Specified Strength (psi):** 4500
Contractor: Three Sons Construction **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
58812	76	430 2127395	10.00 / 10	Batched: 05:13 MDT Arrived: 06:05 MDT		Slump: 1 in. Spec: 1 - 4	Result: 7.2 Spec: 5 - 8	142.0	70		None			FT

Placement Notes - Sample 58812: 10 of 105 yards

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Field Services
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Phone: (303) 759-8100

Concrete Placement Summary

Report #: CPS-000050
Report Date: 07/08/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Placement Date: 06/21/22 **Placement Location:** Sidewalk **Placement Method:** Machine **Technician:** Salcido, Nain

Weather: **Location Details:** Eastbound Belford Avenue, Station 51+00 **Mix Design:** 145812D **Specified Strength (psi):** 4500

Contractor: Three Sons Construction **Supplier:** Brannan Ready Mix

Sample	Set	Truck # Ticket #	Load / Cume Vol (yd³)	Times	Placement Time (min)	Consistency	Air Content (%)	Unit Weight (lb/ft³)	Concrete Temp (F)	Air Temp (F)	On-Site Admixtures	Specimens Cast	Specimen Size	Sample Type
58813	77	339 2127435	10.00 / 10	Batched: 05:33 MDT Arrived: 06:40 MDT		Slump: 1 in. Spec: 1 - 4	Result: 6.4 Spec: 5 - 8	142.3	72		None			FT

Placement Notes - Sample 58813: 20 of 105 yards

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SECTION 4

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000002
Report Date: 01/25/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
34		11/10/21	Asphalt: Bottom Lift: Belford Avenue, STA 24+00, westbound	S			152.6	2 / RICE ASTM D2041	143.2	Backscatter	94	92 / 96		36856	Bierbower, Bryce
35		11/10/21	Asphalt: Bottom Lift: Belford Avenue, STA 26+50, westbound	S			152.6	2 / RICE ASTM D2041	143.1	Backscatter	94	92 / 96		36856	Bierbower, Bryce
36		11/10/21	Asphalt: Bottom Lift: Belford Avenue, STA 29+00, westbound	S			152.6	2 / RICE ASTM D2041	144.2	Backscatter	94	92 / 96		36856	Bierbower, Bryce
37		11/10/21	Asphalt: Bottom Lift: Belford Avenue, STA 31+50, westbound	S			152.6	2 / RICE ASTM D2041	142.8	Backscatter	94	92 / 96		36856	Bierbower, Bryce
38		11/10/21	Asphalt: Bottom Lift: Belford Avenue, STA 34+00, westbound	S			152.6	2 / RICE ASTM D2041	143.0	Backscatter	94	92 / 96		36856	Bierbower, Bryce
39		11/10/21	Asphalt: Bottom Lift: Belford Avenue, STA 36+50, westbound	S			152.5	3 / RICE ASTM D2041	143.5	Backscatter	94	92 / 96		36856	Bierbower, Bryce
40		11/10/21	Asphalt: Bottom Lift: Belford Avenue, STA 39+00, westbound	S			152.5	3 / RICE ASTM D2041	144.2	Backscatter	95	92 / 96		36856	Bierbower, Bryce
41		11/10/21	Asphalt: Bottom Lift: Belford Avenue, STA 41+50, westbound	S			152.5	3 / RICE ASTM D2041	144.5	Backscatter	95	92 / 96		36856	Bierbower, Bryce
42		11/10/21	Asphalt: Bottom Lift: Belford Avenue, STA 44+00, westbound	S			152.5	3 / RICE ASTM D2041	143.5	Backscatter	94	92 / 96		36856	Bierbower, Bryce

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
36856	Troxler	3430	1926	718	11/10/21		

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000003
Report Date: 01/25/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
18		11/11/21	Asphalt: Bottom Lift: Belford Ave, STA 23+50, eastbound	S			152.0	5 / RICE ASTM D2041	143.1	Backscatter	94	92 / 96		036305	Eisenberg, Alexander
19		11/11/21	Asphalt: Bottom Lift: Belford Ave, STA 26+00, eastbound	S			152.0	5 / RICE ASTM D2041	142.6	Backscatter	94	92 / 96		036305	Eisenberg, Alexander
20		11/11/21	Asphalt: Bottom Lift: Belford Ave, STA 28+50, eastbound	S			152.0	5 / RICE ASTM D2041	141.5	Backscatter	93	92 / 96		036305	Eisenberg, Alexander
21		11/11/21	Asphalt: Bottom Lift: Belford Ave, STA 31+00, eastbound	S			152.0	5 / RICE ASTM D2041	142.6	Backscatter	94	92 / 96		036305	Eisenberg, Alexander
22		11/11/21	Asphalt: Bottom Lift: Belford Ave, STA 33+50, eastbound	S			152.0	5 / RICE ASTM D2041	142.0	Backscatter	93	92 / 96		036305	Eisenberg, Alexander
23		11/11/21	Asphalt: Bottom Lift: Belford Ave, STA 36+00, eastbound	S			152.0	5 / RICE ASTM D2041	141.3	Backscatter	93	92 / 96		036305	Eisenberg, Alexander
24		11/11/21	Asphalt: Bottom Lift: Belford Ave, STA 38+50, eastbound	S			152.0	5 / RICE ASTM D2041	145.0	Backscatter	95	92 / 96		036305	Eisenberg, Alexander
25		11/11/21	Asphalt: Bottom Lift: Belford Ave, STA 41+00, eastbound	S			152.0	5 / RICE ASTM D2041	140.6	Backscatter	93	92 / 96		036305	Eisenberg, Alexander
26		11/11/21	Asphalt: Bottom Lift: Belford Ave, STA 43+50, eastbound	S			152.0	5 / RICE ASTM D2041	142.3	Backscatter	94	92 / 96		036305	Eisenberg, Alexander

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
036305	Troxler	3430	1861	628	11/11/21		

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000004
Report Date: 01/25/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
27		11/12/21	Asphalt: Middle Lift: Belford Avenue, STA 23+50	S	2559		152.7	6 / RICE ASTM D2041	141.0	Backscatter	92	92 / 96		036305	Eisenberg, Alexander
28		11/12/21	Asphalt: Middle Lift: Belford Avenue, STA 26+00	S	2559		152.7	6 / RICE ASTM D2041	142.3	Backscatter	93	92 / 96		036305	Eisenberg, Alexander
29		11/12/21	Asphalt: Middle Lift: Belford Avenue, STA 28+50	S	2559		152.7	6 / RICE ASTM D2041	141.9	Backscatter	93	92 / 96		036305	Eisenberg, Alexander
30		11/12/21	Asphalt: Middle Lift: Belford Avenue, STA 31+00	S	2559		152.7	6 / RICE ASTM D2041	140.8	Backscatter	92	92 / 96		036305	Eisenberg, Alexander
31		11/12/21	Asphalt: Top Lift: South Peoria Street, 100' south of Belford Avenue	SX	2562		152.0	4 / RICE ASTM D2041	141.1	Backscatter	93	92 / 96		036305	Eisenberg, Alexander
32		11/12/21	Asphalt: Top Lift: South Peoria Street, 200' south of Belford Avenue	SX	2562		152.0	4 / RICE ASTM D2041	142.3	Backscatter	94	92 / 96		036305	Eisenberg, Alexander
33		11/12/21	Asphalt: Top Lift: South Peoria Street, 300' south of Belford Avenue	SX	2562		152.0	4 / RICE ASTM D2041	140.7	Backscatter	93	92 / 96		036305	Eisenberg, Alexander

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
036305	Troxler	3430	1860	629	11/12/21		

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000005
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
43		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 12+90, westbound turn lane	S	2559		151.7	7 / RICE ASTM D2041	144.7	Backscatter	95	92 / 96		3147	Candelarie, Joey
44		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 14+00, eastbound lane	S	2559		151.7	7 / RICE ASTM D2041	142.0	Backscatter	94	92 / 96		3147	Candelarie, Joey
45		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 16+00, westbound lane	S	2559		151.7	7 / RICE ASTM D2041	144.4	Backscatter	95	92 / 96		3147	Candelarie, Joey
46		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 18+50, westbound lane	S	2559		151.7	7 / RICE ASTM D2041	145.8	Backscatter	96	92 / 96		3147	Candelarie, Joey
47		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 20+00, westbound lane	S	2559		151.7	7 / RICE ASTM D2041	143.0	Backscatter	94	92 / 96		3147	Candelarie, Joey
48		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 22+00, westbound lane	S	2559		151.7	7 / RICE ASTM D2041	142.7	Backscatter	94	92 / 96		3147	Candelarie, Joey
49		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 24+00, westbound lane	S	2559		151.7	7 / RICE ASTM D2041	144.5	Backscatter	95	92 / 96		3147	Candelarie, Joey
50		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 28+00, eastbound lane	S	2559		151.7	7 / RICE ASTM D2041	144.6	Backscatter	95	92 / 96		3147	Candelarie, Joey
51		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 30+00, eastbound lane	S	2559		151.7	7 / RICE ASTM D2041	143.4	Backscatter	95	92 / 96		3147	Candelarie, Joey
52		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 32+00, eastbound lane	S	2559		151.7	7 / RICE ASTM D2041	143.9	Backscatter	95	92 / 96		3147	Candelarie, Joey
53		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 34+00, eastbound lane	S	2559		151.7	7 / RICE ASTM D2041	145.5	Backscatter	96	92 / 96		3147	Candelarie, Joey
54		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 35+00, eastbound lane	S	2559		151.7	7 / RICE ASTM D2041	145.5	Backscatter	96	92 / 96		3147	Candelarie, Joey

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000005
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
55		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 36+50, eastbound lane	S	2559		151.7	7 / RICE ASTM D2041	145.7	Backscatter	96	92 / 96		3147	Candelarie, Joey
56		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 38+00, eastbound lane	S	2559		151.7	7 / RICE ASTM D2041	144.5	Backscatter	95	92 / 96		3147	Candelarie, Joey
57		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 26+50, westbound lane	S	2559		151.7	7 / RICE ASTM D2041	145.6	Backscatter	96	92 / 96		3147	Candelarie, Joey
58		05/23/22	Asphalt: Middle Lift: Belford Avenue, STA 29+00, westbound lane	S	2559		151.7	7 / RICE ASTM D2041	143.1	Backscatter	94	92 / 96		3147	Candelarie, Joey

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
3147	Instrotek	3500	2727	669	05/23/22		

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000006
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
59		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 43+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	143.1	Backscatter	93	92 / 96		3147	Candelarie, Joey
60		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 45+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	146.3	Backscatter	96	92 / 96		3147	Candelarie, Joey
61		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 47+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	144.1	Backscatter	94	92 / 96		3147	Candelarie, Joey
62		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 49+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	145.0	Backscatter	95	92 / 96		3147	Candelarie, Joey
63		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 51+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	144.8	Backscatter	95	92 / 96		3147	Candelarie, Joey
64		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 53+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	144.4	Backscatter	94	92 / 96		3147	Candelarie, Joey
65		05/24/22	Asphalt: Bottom Lift: Belford Avenue Eastbound, at STA: 55+00	S	2559		153.1	9 / RICE ASTM D2041	146.7	Backscatter	96	92 / 96		3147	Candelarie, Joey
66		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 57+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	146.5	Backscatter	96	92 / 96		3147	Candelarie, Joey
67		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 59+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	146.8	Backscatter	96	92 / 96		3147	Candelarie, Joey
68		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 61+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	146.0	Backscatter	95	92 / 96		3147	Candelarie, Joey
69		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 63+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	146.8	Backscatter	96	92 / 96		3147	Candelarie, Joey
70		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 47+00, westbound lane	S	2559		153.1	9 / RICE ASTM D2041	145.0	Backscatter	95	92 / 96		3147	Candelarie, Joey

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
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Asphalt Testing

Report #: AT-000006
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
71		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 49+00, westbound lane	S	2559		153.1	9 / RICE ASTM D2041	144.8	Backscatter	95	92 / 96		3147	Candelarie, Joey
72		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 51+00, westbound lane	S	2559		153.1	9 / RICE ASTM D2041	144.6	Backscatter	94	92 / 96		3147	Candelarie, Joey
73		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 53+00, westbound lane	S	2559		153.1	9 / RICE ASTM D2041	142.7	Backscatter	93	92 / 96		3147	Candelarie, Joey
74		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 77+00, westbound lane	S	2559		153.1	9 / RICE ASTM D2041	145.6	Backscatter	95	92 / 96		3147	Candelarie, Joey
75		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 75+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	146.0	Backscatter	95	92 / 96		3147	Candelarie, Joey
76		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 73+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	143.7	Backscatter	94	92 / 96		3147	Candelarie, Joey
77		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 71+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	146.0	Backscatter	95	92 / 96		3147	Candelarie, Joey
78		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 69+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	144.4	Backscatter	94	92 / 96		3147	Candelarie, Joey
79		05/24/22	Asphalt: Bottom Lift: Belford Avenue, STA 67+00, eastbound lane	S	2559		153.1	9 / RICE ASTM D2041	143.9	Backscatter	94	92 / 96		3147	Candelarie, Joey

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
3147	Instrotek	3500	2765	673	05/24/22		

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Field Services
3211 South Zuni Street
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Asphalt Testing

Report #: AT-000007
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
80		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 66+00, eastbound lane	S	2559		153.3	11 / RICE ASTM D2041	145.0	Backscatter	95	92 / 96		3147	Candelarie, Joey
81		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 65+00, eastbound lane	S	2559		153.3	11 / RICE ASTM D2041	146.7	Backscatter	96	92 / 96		3147	Candelarie, Joey
82		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 76+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	142.9	Backscatter	93	92 / 96		3147	Candelarie, Joey
83		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 74+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	143.4	Backscatter	94	92 / 96		3147	Candelarie, Joey
84		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 72+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	141.7	Backscatter	92	92 / 96		3147	Candelarie, Joey
85		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 70+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	141.7	Backscatter	92	92 / 96		3147	Candelarie, Joey
86		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 68+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	142.0	Backscatter	93	92 / 96		3147	Candelarie, Joey
87		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 66+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	142.3	Backscatter	93	92 / 96		3147	Candelarie, Joey
88		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 64+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	142.5	Backscatter	93	92 / 96		3147	Candelarie, Joey

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Field Services
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Asphalt Testing

Report #: AT-000007
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
89		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 62+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	145.7	Backscatter	95	92 / 96		3147	Candelarie, Joey
90		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 60+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	143.9	Backscatter	94	92 / 96		3147	Candelarie, Joey
91		05/25/22	Asphalt: Bottom Lift: Belford Avenue, STA 58+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	144.7	Backscatter	94	92 / 96		3147	Candelarie, Joey
92		05/25/22	Asphalt: Middle Lift: Belford Avenue, STA 30+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	141.4	Backscatter	92	92 / 96		3147	Candelarie, Joey
93		05/25/22	Asphalt: Middle Lift: Belford Avenue, STA 32+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	142.4	Backscatter	93	92 / 96		3147	Candelarie, Joey
94		05/25/22	Asphalt: Middle Lift: Belford Avenue, STA 34+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	143.8	Backscatter	94	92 / 96		3147	Candelarie, Joey
95		05/25/22	Asphalt: Middle Lift: Belford Avenue, STA 36+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	141.7	Backscatter	92	92 / 96		3147	Candelarie, Joey
96		05/25/22	Asphalt: Middle Lift: Belford Avenue, STA 38+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	142.5	Backscatter	93	92 / 96		3147	Candelarie, Joey
97		05/25/22	Asphalt: Middle Lift: Belford Avenue, STA 40+00, westbound lane	S	2559		153.3	11 / RICE ASTM D2041	141.4	Backscatter	92	92 / 96		3147	Candelarie, Joey

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000007
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
3147	Instrotek	3500	2723	669	05/25/22		

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000008
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
114		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 74+50, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	141.3	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
115		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 72+00, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	141.4	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
116		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 69+50, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	138.1	Backscatter	90	92 / 96		20916	Pacheco, Alfredo
117		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 77+00, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	140.5	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
118		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 64+50, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	142.3	Backscatter	93	92 / 96		20916	Pacheco, Alfredo
119		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 62+00, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	140.2	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
120		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 59+50, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	141.2	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
121		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 57+00, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	140.2	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
122		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 54+50, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	142.5	Backscatter	93	92 / 96		20916	Pacheco, Alfredo

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Asphalt Testing

Report #: AT-000008
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
123		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 52+00, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	140.1	Backscatter	91	92 / 96		20916	Pacheco, Alfredo
124		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 49+50, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	143.5	Backscatter	94	92 / 96		20916	Pacheco, Alfredo
125		06/03/22	Asphalt: Top Lift: Belford Avenue, STA 47+00, eastbound lane	SX	2562		153.2	14 / RICE ASTM D2041	141.2	Backscatter	92	92 / 96		20916	Pacheco, Alfredo

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
20916	Troxler	3430	1730	605	06/03/22		

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000009
Report Date: 06/21/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
107		05/31/22	Asphalt: Middle Lift: Belford Avenue, STA 43+00 westbound lane	S	2559		152.2	15 / RICE ASTM D2041	146.3	Backscatter	96	92 / 96		22403	Zawodsky, Josh
108		05/31/22	Asphalt: Middle Lift: Belford Avenue, STA 53+50 westbound lane	S	2559		152.2	15 / RICE ASTM D2041	146.2	Backscatter	96	92 / 96		22403	Zawodsky, Josh
109		05/31/22	Asphalt: Middle Lift: Belford Avenue, STA 61+00 westbound lane	S	2559		152.2	15 / RICE ASTM D2041	146.2	Backscatter	96	92 / 96		22403	Zawodsky, Josh
110		05/31/22	Asphalt: Middle Lift: Belford Avenue, STA 63+00 westbound lane	S	2559		152.2	15 / RICE ASTM D2041	144.6	Backscatter	95	92 / 96		22403	Zawodsky, Josh
111		05/31/22	Asphalt: Middle Lift: Belford Avenue, STA 66+50 westbound lane	S	2559		152.2	15 / RICE ASTM D2041	145.4	Backscatter	96	92 / 96		22403	Zawodsky, Josh
112		05/31/22	Asphalt: Middle Lift: Belford Avenue, STA 71+50 westbound lane	S	2559		152.2	15 / RICE ASTM D2041	142.3	Backscatter	93	92 / 96		22403	Zawodsky, Josh
113		05/31/22	Asphalt: Middle Lift: Belford Avenue, STA 76+00 westbound lane	S	2559		152.2	15 / RICE ASTM D2041	144.4	Backscatter	95	92 / 96		22403	Zawodsky, Josh

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
22403	Troxler	3430	1730	606	05/31/22		

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Asphalt Testing

Report #: AT-000010
Report Date: 06/22/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
126		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 15+50	SX	2562		152.1	17 / RICE ASTM D2041	139.5	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
127		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 18+00	SX	2562		152.1	17 / RICE ASTM D2041	142.1	Backscatter	93	92 / 96		20916	Pacheco, Alfredo
128		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 20+50	SX	2562		152.1	17 / RICE ASTM D2041	140.5	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
129		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 22+00	SX	2562		152.1	17 / RICE ASTM D2041	141.3	Backscatter	93	92 / 96		20916	Pacheco, Alfredo
130		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 24+50	SX	2562		152.1	17 / RICE ASTM D2041	142.8	Backscatter	94	92 / 96		20916	Pacheco, Alfredo
131		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 27+00	SX	2562		152.1	17 / RICE ASTM D2041	139.2	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
132		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 29+50	SX	2562		152.1	17 / RICE ASTM D2041	140.1	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
133		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 31+00	SX	2562		152.1	17 / RICE ASTM D2041	139.5	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
134		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 33+50	SX	2562		152.1	17 / RICE ASTM D2041	142.3	Backscatter	94	92 / 96		20916	Pacheco, Alfredo

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000010
Report Date: 06/22/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
135		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 36+00	SX	2562		152.1	17 / RICE ASTM D2041	140.1	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
136		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 38+50	SX	2562		152.1	17 / RICE ASTM D2041	140.5	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
137		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 42+00	SX	2562		152.1	17 / RICE ASTM D2041	140.1	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
138		06/06/22	Asphalt: Top Lift: Belford Avenue, eastbound lane, STA 44+50	SX	2562		152.1	17 / RICE ASTM D2041	141.8	Backscatter	93	92 / 96		20916	Pacheco, Alfredo
139		06/06/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 65+50	SX	2562		152.1	17 / RICE ASTM D2041	140.1	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
140		06/06/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 63+00	SX	2562		152.1	17 / RICE ASTM D2041	140.5	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
141		06/06/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 60+50	SX	2562		152.1	17 / RICE ASTM D2041	140.2	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
142		06/06/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 58+00	SX	2562		152.1	17 / RICE ASTM D2041	143.1	Backscatter	94	92 / 96		20916	Pacheco, Alfredo
143		06/06/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 55+50	SX	2562		152.1	17 / RICE ASTM D2041	141.7	Backscatter	93	92 / 96		20916	Pacheco, Alfredo

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000010
Report Date: 06/22/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
144		06/06/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 53+00	SX	2562		152.1	17 / RICE ASTM D2041	140.5	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
145		06/06/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 50+50	SX	2562		152.1	17 / RICE ASTM D2041	142.3	Backscatter	94	92 / 96		20916	Pacheco, Alfredo
146		06/06/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 48+00	SX	2562		152.1	17 / RICE ASTM D2041	139.2	Backscatter	92	92 / 96		20916	Pacheco, Alfredo

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
20916	Troxler	3430	1733	609	06/06/22		

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Asphalt Testing

Report #: AT-000011
Report Date: 06/22/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
147		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 16+50	SX	2562		152.9	19 / RICE ASTM D2041	140.2	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
148		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 19+00	SX	2562		152.9	19 / RICE ASTM D2041	140.1	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
149		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 21+50	SX	2562		152.9	19 / RICE ASTM D2041	140.8	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
150		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 24+00	SX	2562		152.9	19 / RICE ASTM D2041	141.3	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
151		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 26+50	SX	2562		152.9	19 / RICE ASTM D2041	140.7	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
152		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 29+00	SX	2562		152.9	19 / RICE ASTM D2041	140.5	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
153		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 31+50	SX	2562		152.9	19 / RICE ASTM D2041	142.3	Backscatter	93	92 / 96		20916	Pacheco, Alfredo
154		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 34+00	SX	2562		152.9	19 / RICE ASTM D2041	140.1	Backscatter	92	92 / 96		20916	Pacheco, Alfredo
155		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 36+50	SX	2562		152.9	19 / RICE ASTM D2041	140.2	Backscatter	92	92 / 96		20916	Pacheco, Alfredo

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000011
Report Date: 06/22/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
156		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 39+00	SX	2562		152.9	19 / RICE ASTM D2041	141.5	Backscatter	93	92 / 96		20916	Pacheco, Alfredo
157		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 41+50	SX	2562		152.9	19 / RICE ASTM D2041	142.1	Backscatter	93	92 / 96		20916	Pacheco, Alfredo
158		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 44+00	SX	2562		152.9	19 / RICE ASTM D2041	141.5	Backscatter	93	92 / 96		20916	Pacheco, Alfredo
159		06/07/22	Asphalt: Top Lift: Belford Avenue, westbound lane, STA 46+50	SX	2562		152.9	19 / RICE ASTM D2041	140.5	Backscatter	92	92 / 96		20916	Pacheco, Alfredo

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
20916	Troxler	3430	1730	604	06/07/22		

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000012
Report Date: 06/22/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
98		05/26/22	Asphalt: Middle Lift: Belford Avenue, STA 77+00, eastbound lane	S	2559		153.2	16 / RICE ASTM D2041	144.8	Backscatter	95	92 / 96		22403	Zawodsky, Josh
99		05/26/22	Asphalt: Middle Lift: Belford Avenue, STA 70+00, eastbound lane	S	2559		153.2	16 / RICE ASTM D2041	141.6	Backscatter	92	92 / 96		22403	Zawodsky, Josh
100		05/26/22	Asphalt: Middle Lift: Belford Avenue, STA 66+50, eastbound lane	S	2559		153.2	16 / RICE ASTM D2041	140.9	Backscatter	92	92 / 96		22403	Zawodsky, Josh
101		05/26/22	Asphalt: Middle Lift: Belford Avenue, STA 59+50, eastbound lane	S	2559		153.2	16 / RICE ASTM D2041	144.8	Backscatter	95	92 / 96		22403	Zawodsky, Josh
102		05/26/22	Asphalt: Middle Lift: Belford Avenue, STA 55+00, eastbound lane	S	2559		153.2	16 / RICE ASTM D2041	147.3	Backscatter	96	92 / 96		22403	Zawodsky, Josh
103		05/26/22	Asphalt: Middle Lift: Belford Avenue, STA 52+50, eastbound lane	S	2559		153.2	16 / RICE ASTM D2041	147.0	Backscatter	96	92 / 96		22403	Zawodsky, Josh
104		05/26/22	Asphalt: Middle Lift: Belford Avenue, STA 50+00, eastbound lane	S	2559		153.2	16 / RICE ASTM D2041	142.1	Backscatter	93	92 / 96		22403	Zawodsky, Josh
105		05/26/22	Asphalt: Middle Lift: Belford Avenue, STA 45+00, eastbound lane	S	2559		153.2	16 / RICE ASTM D2041	146.5	Backscatter	96	92 / 96		22403	Zawodsky, Josh
106		05/26/22	Asphalt: Middle Lift: Belford Avenue, STA 41+00, eastbound lane	S	2559		153.2	16 / RICE ASTM D2041	144.1	Backscatter	94	92 / 96		22403	Zawodsky, Josh

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000012
Report Date: 06/22/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
22403	Troxler	3430	1735	610	05/26/22		

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000013
Report Date: 07/05/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
160		06/10/22	Asphalt: Bottom Lift: North First Street, 850' north of East Elm Avenue, northbound lane	S	2559		153.2	20 / RICE ASTM D2041	141.1	Asphalt	92	92 / 96		4121	Boling, Bryan
161		06/10/22	Asphalt: Bottom Lift: North First Street, 600' north of East Elm Avenue, northbound lane	S	2559		153.2	20 / RICE ASTM D2041	142.0	Asphalt	93	92 / 96		4121	Boling, Bryan
162		06/10/22	Asphalt: Bottom Lift: North First Street, 350' north of East Elm Avenue, northbound lane	S	2559		153.2	20 / RICE ASTM D2041	144.3	Asphalt	94	92 / 96		4121	Boling, Bryan
163		06/10/22	Asphalt: Bottom Lift: North First Street, 100' north of East Elm Avenue, northbound lane	S	2559		153.2	20 / RICE ASTM D2041	144.1	Asphalt	94	92 / 96		4121	Boling, Bryan
164		06/10/22	Asphalt: Bottom Lift: North First Street, 850' north of Dogwood Avenue, northbound lane	S	2559		153.2	20 / RICE ASTM D2041	142.8	Asphalt	93	92 / 96		4121	Boling, Bryan
165		06/10/22	Asphalt: Bottom Lift: North First Street, 600' north of Dogwood Avenue, northbound lane	S	2559		153.2	20 / RICE ASTM D2041	143.8	Asphalt	94	92 / 96		4121	Boling, Bryan
166		06/10/22	Asphalt: Bottom Lift: North First Street, 350' north of Dogwood Avenue, northbound lane	S	2559		153.2	20 / RICE ASTM D2041	144.3	Asphalt	94	92 / 96		4121	Boling, Bryan

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000013
Report Date: 07/05/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
167		06/10/22	Asphalt: Bottom Lift: North First Street, 100' north of Dogwood Avenue, northbound lane	S	2559		153.2	20 / RICE ASTM D2041	144.0	Asphalt	94	92 / 96		4121	Boling, Bryan
168		06/10/22	Asphalt: Bottom Lift: North First Street, 900' north of East Elm Avenue, southbound lane	S	2559		153.2	20 / RICE ASTM D2041	143.9	Asphalt	94	92 / 96		4121	Boling, Bryan
169		06/10/22	Asphalt: Bottom Lift: North First Street, 650' north of East Elm Avenue, southbound lane	S	2559		153.2	20 / RICE ASTM D2041	144.1	Asphalt	94	92 / 96		4121	Boling, Bryan
170		06/10/22	Asphalt: Bottom Lift: North First Street, 400' north of East Elm Avenue, southbound lane	S	2559		153.2	20 / RICE ASTM D2041	143.5	Asphalt	94	92 / 96		4121	Boling, Bryan
171		06/10/22	Asphalt: Bottom Lift: North First Street, 150' north of East Elm Avenue, southbound lane	S	2559		153.2	20 / RICE ASTM D2041	143.9	Asphalt	94	92 / 96		4121	Boling, Bryan
172		06/10/22	Asphalt: Bottom Lift: North First Street, 900' north of Dogwood Avenue, southbound lane	S	2559		153.2	20 / RICE ASTM D2041	143.7	Asphalt	94	92 / 96		4121	Boling, Bryan
173		06/10/22	Asphalt: Bottom Lift: North First Street, 650' north of Dogwood Avenue, southbound lane	S	2559		153.2	20 / RICE ASTM D2041	144.1	Asphalt	94	92 / 96		4121	Boling, Bryan

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

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Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000013
Report Date: 07/05/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
174		06/10/22	Asphalt: Bottom Lift: North First Street, 400' north of Dogwood Avenue, southbound lane	S	2559		153.2	20 / RICE ASTM D2041	142.3	Asphalt	93	92 / 96		4121	Boling, Bryan
175		06/10/22	Asphalt: Bottom Lift: North First Street, 150' north of Dogwood Avenue, southbound lane	S	2559		153.2	20 / RICE ASTM D2041	141.8	Asphalt	93	92 / 96		4121	Boling, Bryan
176		06/10/22	Asphalt: Top Lift: North First Street, 850' north of East Elm Avenue, northbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.8	Asphalt	93	92 / 96		4121	Boling, Bryan
177		06/10/22	Asphalt: Top Lift: North First Street, 600' north of East Elm Avenue, northbound lane	SX	2559		153.0	21 / RICE ASTM D2041	141.7	Asphalt	93	92 / 96		4121	Boling, Bryan
178		06/10/22	Asphalt: Top Lift: North First Street, 350' north of East Elm Avenue, northbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.2	Asphalt	93	92 / 96		4121	Boling, Bryan
179		06/10/22	Asphalt: Top Lift: North First Street, 100' north of East Elm Avenue, northbound lane	SX	2559		153.0	21 / RICE ASTM D2041	141.5	Asphalt	92	92 / 96		4121	Boling, Bryan
180		06/10/22	Asphalt: Top Lift: North First Street, 850' north of Dogwood Avenue, northbound lane	SX	2559		153.0	21 / RICE ASTM D2041	141.8	Asphalt	93	92 / 96		4121	Boling, Bryan
181		06/10/22	Asphalt: Top Lift: North First Street, 600' north of Dogwood Avenue, northbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.0	Asphalt	93	92 / 96		4121	Boling, Bryan
182		06/10/22	Asphalt: Top Lift: North First Street, 350' north of Dogwood Avenue, northbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.3	Asphalt	93	92 / 96		4121	Boling, Bryan

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000013
Report Date: 07/05/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Test Results

Test #	Retest Of	Test Date	Test Location	Material	Mix Design	Thickness (in)	Max Density (pcf)	Max Density Source	In Place Density (pcf)	Probe Depth (in)	Percent Comp.	Min/Max Comp. (%)	Remark	Gauge SN	Technician
183		06/10/22	Asphalt: Top Lift: North First Street, 100' north of Dogwood Avenue, northbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.0	Asphalt	93	92 / 96		4121	Boling, Bryan
184		06/10/22	Asphalt: Top Lift: North First Street, 900' north of East Elm Avenue, southbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.7	Asphalt	93	92 / 96		4121	Boling, Bryan
185		06/10/22	Asphalt: Top Lift: North First Street, 650' north of East Elm Avenue, southbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.1	Asphalt	93	92 / 96		4121	Boling, Bryan
186		06/10/22	Asphalt: Top Lift: North First Street, 400' north of East Elm Avenue, southbound lane	SX	2559		153.0	21 / RICE ASTM D2041	141.9	Asphalt	93	92 / 96		4121	Boling, Bryan
187		06/10/22	Asphalt: Top Lift: North First Street, 150' north of East Elm Avenue, southbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.4	Asphalt	93	92 / 96		4121	Boling, Bryan
188		06/10/22	Asphalt: Top Lift: North First Street, 900' north of Dogwood Avenue, southbound lane	SX	2559		153.0	21 / RICE ASTM D2041	143.3	Asphalt	94	92 / 96		4121	Boling, Bryan
189		06/10/22	Asphalt: Top Lift: North First Street, 650' north of Dogwood Avenue, southbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.5	Asphalt	93	92 / 96		4121	Boling, Bryan
190		06/10/22	Asphalt: Top Lift: North First Street, 400' north of Dogwood Avenue, southbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.4	Asphalt	93	92 / 96		4121	Boling, Bryan
191		06/10/22	Asphalt: Top Lift: North First Street, 150' north of Dogwood Avenue, southbound lane	SX	2559		153.0	21 / RICE ASTM D2041	142.0	Asphalt	93	92 / 96		4121	Boling, Bryan

The density test/compaction results shown are an indicator of the degree of compactive effort applied during paving operations. The Contractor has been informed that these results have not been correlated and hence not considered final compaction results. The Contractor has sole responsibility for proper compaction regardless of any field results provided. The industry and engineering standard for obtaining density of compacted asphalt is the drilled core. We recommend the pavement be cored for actual density and thickness determination. Testing is provided exclusively for the Client. Any use of the data by the Contractor is unauthorized and at their sole risk.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Testing

Report #: AT-000013
Report Date: 07/05/2022
Test Method: D2950

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Remarks	Comments
	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter"

Gauge Information

Gauge SN	Make	Model	Density Count	Moisture Count	Standard Count Date	Last Calibration Date	Last Calibrated By
4121	Instrotek	3500	2777	683	06/10/22		

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A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000002
Report Date: 01/25/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 4

Date: 11/10/2021

Technician: Bierbower, Bryce

Ambient Temperature (°F): 58 to 72

Placement Temperature (°F): 235 to 275

Estimated Wind (mph): Calm: 0-5

Weather: Sunny

Number of Samples Obtained: 1

Paving Contractor: Schmidt

Sample Obtained By: AGW Technician

Placement Method: Paver

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000003
Report Date: 01/25/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 2

Date: 11/11/2021

Technician: Eisenberg, Alexander

Ambient Temperature (°F): 70 to 90

Placement Temperature (°F): 270 to 300

Estimated Wind (mph): Calm: 0-5

Weather: Sunny

Number of Samples Obtained: 1

Paving Contractor: Schmidt

Sample Obtained By: Producer QC/Field Personnel

Placement Method: Paver

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000004
Report Date: 01/25/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 3

Date: 11/12/2021

Technician: Eisenberg, Alexander

Ambient Temperature (°F): 70 to 90

Placement Temperature (°F): 270 to 300

Estimated Wind (mph): Calm: 0-5

Weather: Sunny

Number of Samples Obtained: 2

Paving Contractor: Schmidt

Sample Obtained By: Producer QC/Field Personnel

Placement Method: Paver

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000005
Report Date: 06/21/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 5

Date: 05/23/2022

Technician: Candelarie, Joey

Ambient Temperature (°F): 54 to 57

Placement Temperature (°F): 263 to 294

Estimated Wind (mph): Breezy: 5-15

Weather: Cloudy

Number of Samples Obtained: 2

Paving Contractor: Schmidt

Sample Obtained By: Producer QC/Field Personnel

Placement Method: Paver

Comments: The Contractor requested to be informed when compaction results were below 94%. The QC was informed when we recorded any test results under 94%.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Asphalt Activity Report

Report #: AAR-000006
Report Date: 06/21/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 6

Date: 05/24/2022

Technician: Candelarie, Joey

Ambient Temperature (°F): 52 to 57

Placement Temperature (°F): 280 to 292

Estimated Wind (mph): Calm: 0-5

Weather: Cloudy

Number of Samples Obtained: 2

Paving Contractor: Schmidt

Sample Obtained By: Producer QC/Field Personnel

Placement Method: Paver

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000007
Report Date: 06/21/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 7

Date: 05/25/2022

Technician: Candelarie, Joey

Ambient Temperature (°F): 46 to 63

Placement Temperature (°F): 265 to 298

Estimated Wind (mph): Breezy: 5-15

Weather: Sunny

Number of Samples Obtained: 2

Paving Contractor: Schmidt

Sample Obtained By: Producer QC/Field Personnel

Placement Method: Paver

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000008
Report Date: 06/21/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 8

Date: 06/03/2022

Technician: Pacheco, Alfredo

Ambient Temperature (°F): 60 to 74

Estimated Wind (mph): Calm: 0-5

Weather: Partly Cloudy

Number of Samples Obtained: 1

Sample Obtained By: Producer QC/Field Personnel

Placement Method: Paver

Comments: I was not present for asphalt placement, therefore placement temperature is unknown, sample was collected by QC on site by the time I arrived.

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
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Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000009
Report Date: 06/21/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 13

Date: 05/31/2022

Technician: Zawodsky, Josh

Ambient Temperature (°F): 60 to 80

Placement Temperature (°F): 265 to 300

Estimated Wind (mph): Calm: 0-5

Weather: Sunny

Number of Samples Obtained: 2

Sample Obtained By: Producer QC/Field Personnel

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000010
Report Date: 06/22/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 9

Date: 06/06/2022

Technician: Pacheco, Alfredo

Ambient Temperature (°F): 60 to 80

Placement Temperature (°F): 160 to 300

Estimated Wind (mph): Calm: 0-5

Weather: Partly Cloudy

Number of Samples Obtained: 2

Paving Contractor: Schmidt Construction

Sample Obtained By: AGW Technician

Placement Method: Paver

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000011
Report Date: 06/22/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 10

Date: 06/07/2022

Technician: Pacheco, Alfredo

Ambient Temperature (°F): 65 to 80

Placement Temperature (°F): 150 to 305

Estimated Wind (mph): Calm: 0-5

Weather: Partly Cloudy

Number of Samples Obtained: 1

Sample Obtained By: AGW Technician

Placement Method: Paver

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000012
Report Date: 06/22/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 14

Date: 05/26/2022

Technician: Zawodsky, Josh

Ambient Temperature (°F): 65 to 75

Placement Temperature (°F): 288 to 302

Estimated Wind (mph): Calm: 0-5

Weather: Sunny

Number of Samples Obtained: 2

Paving Contractor: Schmidt

Sample Obtained By: Producer QC/Field Personnel

Placement Method: Paver

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000013
Report Date: 07/05/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 11

Date: 06/10/2022

Technician: Boling, Bryan

Ambient Temperature (°F): 84 to 90

Placement Temperature (°F): 258 to 262

Estimated Wind (mph): Calm: 0-5

Weather: Sunny

Number of Samples Obtained: 2

Paving Contractor: Schmidt Construction

Sample Obtained By: Producer QC/Field Personnel

Placement Method: Paving Box

A.G. WASSENAAR, INC.
Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Asphalt Activity Report

Report #: AAR-000014
Report Date: 07/05/2022

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

Activity Number: 12

Date: 05/27/2022

Technician: Zawodsky, Josh

Ambient Temperature (°F): 60 to 80

Placement Temperature (°F): 265 to 300

Estimated Wind (mph): Calm: 0-5

Weather: Sunny

Number of Samples Obtained: 2

Sample Obtained By: Producer QC/Field Personnel

A.G. WASSENAAR, INC.

CLIENT: Belford North Metropolitan District
PROJECT NAME: Compark Village South, Filing 1 Infrastructure
LOCATION: Parker, Colorado

DATE: September 22, 2021
PROJECT NUMBER: 153733

ASPHALT MIX DESIGN SUMMARY

Supplier	Schmidt Construction Co.					
Paving Contractor	Schmidt Construction Co.					
Mix I.D.	2559					
Mix Type	S					
Asphalt Content (%)	5.00					
Theo Max Spg	2.461					
Theo Max Density / Marshall Unit Wt. (pcf)	153.5					
Sieve Analysis						
1 1/2"	100					
1"	100					
3/4"	98					
1/2"	88					
3/8"	80					
#4	62					
#8	47					
#16	33					
#30	22					
#50	14					
#100	9					
#200	5.5					
Air Voids (%)						
N (initial)	-					
N (design)	3.5					
Marshall Properties						
Stability (lbs.)	-					
Flow (0.01 in.)	-					
Specified Compaction	92 to 96					

CLIENT: Belford North Metropolitan District
PROJECT NAME: Compark Village South, Filing 1 Infrastructure
LOCATION: Parker, Colorado

DATE: September 22, 2021
PROJECT NUMBER: 153733

ASPHALT LABORATORY TESTING SUMMARY

Sample No.	1				
Date	08/25/21				
Location	South Peoria Street, northbound				
Lift	Bottom				
Mix I.D.	2559				
Mix Type	S				
Asphalt Content (%)	5.26				
Theo Max Spg	2.456				
Theo Max Density / Marshall Unit Wt. (pcf)	152.9				
Sieve Analysis					
1 1/2"	100				
1"	100				
3/4"	94				
1/2"	88				
3/8"	81				
#4	67				
#8	50				
#16	36				
#30	25				
#50	16				
#100	10				
#200	6.9				
Voids N (design)	3.1				
Lottman (CP-L5109)					
Voids Con/Unc	-				
Strength Con/Unc	-				
TSR (%)	-				
VMA	13.9				

* Indicates out of tolerance
Neither an asphalt content nor an aggregate gradation correction factor has been applied.

AGW
A.G. WASSENAAR, INC.

CLIENT: Belford North Metropolitan District
PROJECT NAME: Compark Village South, Filing 1 Infrastructure
LOCATION: Parker, Colorado

DATE: December 14, 2021
PROJECT NUMBER: 153733

ASPHALT MIX DESIGN SUMMARY

Supplier	Schmidt Construction Co.	Schmidt Construction Co.				
Paving Contractor	Schmidt Construction Co.	Schmidt Construction Co.				
Mix I.D.	2559	2562				
Mix Type	S	SX				
Asphalt Content (%)	5.00	5.20				
Theo Max Spg	2.461	2.446				
Theo Max Density / Marshall Unit Wt. (pcf)	153.5	152.6				
Sieve Analysis						
1 1/2"	100	100				
1"	100	100				
3/4"	98	100				
1/2"	88	95				
3/8"	80	88				
#4	62	73				
#8	47	55				
#16	33	38				
#30	22	25				
#50	14	15				
#100	9	9				
#200	5.5	6.0				
Air Voids (%)						
N (initial)	-	-				
N (design)	3.5	3.5				
Marshall Properties						
Stability (lbs.)	-	-				
Flow (0.01 in.)	-	-				
Specified Compaction	92 to 96	92 to 96				

AGW
A.G. WASSENAAR, INC.

CLIENT: Belford North Metropolitan District
PROJECT NAME: Compark Village South, Filing 1 Infrastructure
LOCATION: Parker, Colorado

DATE: December 14, 2021
PROJECT NUMBER: 153733

ASPHALT LABORATORY TESTING SUMMARY

Sample No.	2	3	4		
Date	11/10/21	11/10/21	11/12/21		
Location	Belford Avenue, eastbound	Belford Avenue, westbound	Peroia Street, south of Belford Avenue, northbound		
Lift	Bottom	Bottom	Top		
Mix I.D.	2559	2559	2562		
Mix Type	S	S	SX		
Asphalt Content (%)	5.05	5.01	5.42		
Theo Max Spg	2.451	2.451	2.442		
Theo Max Density / Marshall Unit Wt. (pcf)	152.6	152.5	152.0		
Sieve Analysis					
1 1/2"	100	100	100		
1"	100	100	100		
3/4"	98	96	100		
1/2"	84	86	96		
3/8"	76	78	89		
#4	62	61	73		
#8	47	46	54		
#16	33	33	37		
#30	23	23	24		
#50	15	15	15		
#100	9	9	10		
#200	6.2	6.5	6.4		
Voids N (design)	2.8	2.9	3.7		
Lottman (CP-L5109)					
Voids Con/Unc	-	-	-		
Strength Con/Unc	-	-	-		
TSR (%)	-	-	-		

* Indicates out of tolerance
Neither an asphalt content nor an aggregate gradation correction factor has been applied.

AGW
A.G. WASSENAAR, INC.

CLIENT: Belford North Metropolitan District
PROJECT NAME: Compark Village South, Filing 1 Infrastructure
LOCATION: Parker, Colorado

DATE: January 21, 2022
PROJECT NUMBER: 153733

ASPHALT MIX DESIGN SUMMARY

Supplier	Schmidt Construction Co.	Schmidt Construction Co.				
Paving Contractor	Schmidt Construction Co.	Schmidt Construction Co.				
Mix I.D.	2559	2562				
Mix Type	S	SX				
Asphalt Content (%)	5.00	5.20				
Theo Max Spg	2.461	2.446				
Theo Max Density / Marshall Unit Wt. (pcf)	153.5	152.6				
Sieve Analysis						
1 1/2"	100	100				
1"	100	100				
3/4"	98	100				
1/2"	88	95				
3/8"	80	88				
#4	62	73				
#8	47	55				
#16	33	38				
#30	22	25				
#50	14	15				
#100	9	9				
#200	5.5	6.0				
Air Voids (%)						
N (initial)	-	-				
N (design)	3.5	3.5				
Marshall Properties						
Stability (lbs.)	-	-				
Flow (0.01 in.)	-	-				
Specified Compaction	92 to 96	92 to 96				

AGW
A.G. WASSENAAR, INC.

CLIENT: Belford North Metropolitan District
PROJECT NAME: Compark Village South, Filing 1 Infrastructure
LOCATION: Parker, Colorado

DATE: January 21, 2022
PROJECT NUMBER: 153733

ASPHALT LABORATORY TESTING SUMMARY

Sample No.	5	6			
Date	11/11/21	11/12/21			
Location	Belford Avenue, eastbound	Belford Avenue, eastbound			
Lift	Bottom	Middle			
Mix I.D.	2559	2559			
Mix Type	S	S			
Asphalt Content (%)	5.30	5.01			
Theo Max Spg	2.443	2.454			
Theo Max Density / Marshall Unit Wt. (pcf)	152.0	152.7			
Sieve Analysis					
1 1/2"	100	100			
1"	100	100			
3/4"	98	96			
1/2"	88	83			
3/8"	80	75			
#4	64	59			
#8	48	45			
#16	34	32			
#30	23	22			
#50	14	14			
#100	9	9			
#200	6.3	6.2			
Voids N (design)	2.0	2.5			
Lottman (CP-L5109)					
Voids Con/Unc	-	-			
Strength Con/Unc	-	-			
TSR (%)	-	-			

* Indicates out of tolerance
Neither an asphalt content nor an aggregate gradation correction factor has been applied.

AGW
A.G. WASSENAAR, INC.

CLIENT: Belford North Metropolitan District
PROJECT NAME: Compark Village South, Filing 1 Infrastructure
LOCATION: Parker, Colorado

DATE: January 21, 2022
PROJECT NUMBER: 153733

ASPHALT MIX DESIGN SUMMARY

Supplier	Schmidt Construction Co.	Schmidt Construction Co.				
Paving Contractor	Schmidt Construction Co.	Schmidt Construction Co.				
Mix I.D.	2559	2562				
Mix Type	S	SX				
Asphalt Content (%)	5.00	5.20				
Theo Max Spg	2.461	2.446				
Theo Max Density / Marshall Unit Wt. (pcf)	153.5	152.6				
Sieve Analysis						
1 1/2"	100	100				
1"	100	100				
3/4"	98	100				
1/2"	88	95				
3/8"	80	88				
#4	62	73				
#8	47	55				
#16	33	38				
#30	22	25				
#50	14	15				
#100	9	9				
#200	5.5	6.0				
Air Voids (%)						
N (initial)	-	-				
N (design)	3.5	3.5				
Marshall Properties						
Stability (lbs.)	-	-				
Flow (0.01 in.)	-	-				
Specified Compaction	92 to 96	92 to 96				

A.G. WASSENAAR, INC.

CLIENT: Belford North Metropolitan District
PROJECT NAME: Compark Village South, Filing 1 Infrastructure
LOCATION: Parker, Colorado

DATE: September 22, 2021
PROJECT NUMBER: 153733

ASPHALT LABORATORY TESTING SUMMARY

Sample No.	1				
Date	08/25/21				
Location	South Peoria Street, northbound				
Lift	Bottom				
Mix I.D.	2559				
Mix Type	S				
Asphalt Content (%)	5.26				
Theo Max Spg	2.456				
Theo Max Density / Marshall Unit Wt. (pcf)	152.9				
Sieve Analysis					
1 1/2"	100				
1"	100				
3/4"	94				
1/2"	88				
3/8"	81				
#4	67				
#8	50				
#16	36				
#30	25				
#50	16				
#100	10				
#200	6.9				
Voids N (design)	3.1				
Lottman (CP-L5109)					
Voids Con/Unc	5.67/5.69				
Strength Con/Unc	109/111				
TSR (%)	98				
VMA	13.9				

* Indicates out of tolerance
**Lottman testing conducted on cores taken 7/13/22
Neither an asphalt content nor an aggregate gradation correction factor has been applied.

AGW
A.G. WASSENAAR, INC.

CLIENT: Belford North Metropolitan District
PROJECT NAME: Compark Village South, Filing 1 Infrastructure
LOCATION: Parker, Colorado

DATE: December 14, 2021
PROJECT NUMBER: 153733

ASPHALT LABORATORY TESTING SUMMARY

Sample No.	2	3	4		
Date	11/10/21	11/10/21	11/12/21		
Location	Belford Avenue, eastbound	Belford Avenue, westbound	Peroia Street, south of Belford Avenue, northbound		
Lift	Bottom	Bottom	Top		
Mix I.D.	2559	2559	2562		
Mix Type	S	S	SX		
Asphalt Content (%)	5.05	5.01	5.42		
Theo Max Spg	2.451	2.451	2.442		
Theo Max Density / Marshall Unit Wt. (pcf)	152.6	152.5	152.0		
Sieve Analysis					
1 1/2"	100	100	100		
1"	100	100	100		
3/4"	98	96	100		
1/2"	84	86	96		
3/8"	76	78	89		
#4	62	61	73		
#8	47	46	54		
#16	33	33	37		
#30	23	23	24		
#50	15	15	15		
#100	9	9	10		
#200	6.2	6.5	6.4		
Voids N (design)	2.8	2.9	3.7		
Lottman (CP-L5109)					
Voids Con/Unc	-	-	7.09/7.00		
Strength Con/Unc	-	-	97/130		
TSR (%)	-	-	75		

* Indicates out of tolerance
**Lottman testing conducted on cores taken 7/13/22
Neither an asphalt content nor an aggregate gradation correction factor has been applied.

Asphalt Laboratory Testing Summary

Report #: AP-000001

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 7
Sample Location: Belford Avenue, STA 13+50, westbound
Sampled by: Contractor
Date Sampled: 05/23/2022
Date Tested: 05/25/2022
Lift: Middle 1

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Paving Contractor: Schmidt Construction Company
Grading Mix Type: S
Mix Design Number: 2559

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	98	96	90 - 100
Sieve 1/2"	90	88	82 - 94
Sieve 3/8"	84	81	75 - 87
Sieve No. 4	69	64	59 - 69
Sieve No. 8	51	48	43 - 53
Sieve No. 16	36	34	
Sieve No. 30	24	23	19 - 27
Sieve No. 50	15	14	
Sieve No. 100	10	9	
Sieve No. 200	6.9	5.7	3.7 - 7.7
Asphalt Content (%)	6.1	5.20	4.90 - 5.50
Air Voids N_{design} (%)	0.89	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%) 13.5

Theoretical Maximum Specific Gravity / Density (pcf) 2.438 / 151.7

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000002

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 8
Sample Location: Belford Avenue, STA 25+00, westbound
Sampled by: Contractor
Date Sampled: 05/23/2022
Date Tested: 05/25/2022
Lift: Middle 1

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Paving Contractor: Schmidt Construction Company
Grading Mix Type: S
Mix Design Number: 2559

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	98	96	90 - 100
Sieve 1/2"	88	88	82 - 94
Sieve 3/8"	80	81	75 - 87
Sieve No. 4	65	64	59 - 69
Sieve No. 8	49	48	43 - 53
Sieve No. 16	35	34	
Sieve No. 30	24	23	19 - 27
Sieve No. 50	15	14	
Sieve No. 100	10	9	
Sieve No. 200	6.7	5.7	3.7 - 7.7
Asphalt Content (%)	5.84	5.20	4.90 - 5.50
Air Voids N_{design} (%)	2.04	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%) 13.8

Theoretical Maximum Specific Gravity / Density (pcf) 2.450 / 152.5

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000003

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 9
Sample Location: Belford Avenue, STA 54+00, eastbound
Sampled by: Contractor
Date Sampled: 05/24/2022
Date Tested: 05/26/2022
Lift: Bottom

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Grading Mix Type: S
Mix Design Number: 2559

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	96	96	90 - 100
Sieve 1/2"	83	88	82 - 94
Sieve 3/8"	76	81	75 - 87
Sieve No. 4	60	64	59 - 69
Sieve No. 8	45	48	43 - 53
Sieve No. 16	33	34	
Sieve No. 30	23	23	19 - 27
Sieve No. 50	15	14	
Sieve No. 100	9	9	
Sieve No. 200	6.5	5.7	3.7 - 7.7
Asphalt Content (%)	5.41	5.20	4.90 - 5.50
Air Voids N_{design} (%)	1.68	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%)	12.7
Theoretical Maximum Specific Gravity / Density (pcf)	2.460 / 153.1

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000004

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 10
Sample Location: Belford Avenue, STA 55+00, westbound
Sampled by: Contractor
Date Sampled: 05/24/2022
Date Tested: 05/26/2022
Lift: Bottom

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Grading Mix Type: S
Mix Design Number: 2559

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	100	96	90 - 100
Sieve 1/2"	90	88	82 - 94
Sieve 3/8"	83	81	75 - 87
Sieve No. 4	68	64	59 - 69
Sieve No. 8	50	48	43 - 53
Sieve No. 16	36	34	
Sieve No. 30	24	23	19 - 27
Sieve No. 50	15	14	
Sieve No. 100	10	9	
Sieve No. 200	6.8	5.7	3.7 - 7.7
Asphalt Content (%)	5.84	5.20	4.90 - 5.50
Air Voids N_{design} (%)	1.90	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%)	13.6
Theoretical Maximum Specific Gravity / Density (pcf)	2.454 / 152.7

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000005

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 11
Sample Location: Belford Avenue, STA 57+00, westbound
Sampled by: Contractor
Date Sampled: 05/25/2022
Date Tested: 05/26/2022
Lift: Bottom

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Grading Mix Type: S
Mix Design Number: 2559

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	96	96	90 - 100
Sieve 1/2"	82	88	82 - 94
Sieve 3/8"	74	81	75 - 87
Sieve No. 4	60	64	59 - 69
Sieve No. 8	46	48	43 - 53
Sieve No. 16	33	34	
Sieve No. 30	23	23	19 - 27
Sieve No. 50	15	14	
Sieve No. 100	9	9	
Sieve No. 200	6.5	5.7	3.7 - 7.7
Asphalt Content (%)	5.58	5.20	4.90 - 5.50
Air Voids N_{design} (%)	1.85	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%)	13.0
Theoretical Maximum Specific Gravity / Density (pcf)	2.463 / 153.3

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000006

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 12
Sample Location: Belford Avenue, STA 40+00, westbound
Sampled by: Contractor
Date Sampled: 05/25/2022
Date Tested: 05/26/2022
Lift: Middle 1

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Grading Mix Type: S
Mix Design Number: 2559

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	98	96	90 - 100
Sieve 1/2"	87	88	82 - 94
Sieve 3/8"	80	81	75 - 87
Sieve No. 4	77	64	59 - 69
Sieve No. 8	49	48	43 - 53
Sieve No. 16	35	34	
Sieve No. 30	24	23	19 - 27
Sieve No. 50	15	14	
Sieve No. 100	10	9	
Sieve No. 200	6.7	5.7	3.7 - 7.7
Asphalt Content (%)	5.84	5.20	4.90 - 5.50
Air Voids N_{design} (%)	1.70	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%)	13.5
Theoretical Maximum Specific Gravity / Density (pcf)	2.451 / 152.6

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000007

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 13
Sample Location: Belford Avenue, STA 71+00, westbound
Sampled by: Contractor
Date Sampled: 05/26/2022
Date Tested: 05/31/2022
Lift: Middle 1

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Grading Mix Type: S
Mix Design Number: 2559

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	95	96	90 - 100
Sieve 1/2"	85	88	82 - 94
Sieve 3/8"	76	81	75 - 87
Sieve No. 4	62	64	59 - 69
Sieve No. 8	48	48	43 - 53
Sieve No. 16	34	34	
Sieve No. 30	23	23	19 - 27
Sieve No. 50	15	14	
Sieve No. 100	9	9	
Sieve No. 200	6.4	5.7	3.7 - 7.7
Asphalt Content (%)	5.5	5.20	4.90 - 5.50
Air Voids N_{design} (%)	1.91	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%)	13.2
Theoretical Maximum Specific Gravity / Density (pcf)	2.455 / 152.8

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000008

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 14
Sample Location: Belford Avenue, STA 40+00, westbound
Sampled by: Contractor
Date Sampled: 05/26/2022
Date Tested: 05/31/2022
Lift: Middle 1

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Grading Mix Type: S
Mix Design Number: 2559

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	97	96	90 - 100
Sieve 1/2"	86	88	82 - 94
Sieve 3/8"	80	81	75 - 87
Sieve No. 4	66	64	59 - 69
Sieve No. 8	50	48	43 - 53
Sieve No. 16	36	34	
Sieve No. 30	25	23	19 - 27
Sieve No. 50	16	14	
Sieve No. 100	10	9	
Sieve No. 200	7.0	5.7	3.7 - 7.7
Asphalt Content (%)	5.64	5.20	4.90 - 5.50
Air Voids N_{design} (%)	2.21	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%)	13.3
Theoretical Maximum Specific Gravity / Density (pcf)	2.462 / 153.2

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000009

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 15
Sample Location: Belford Avenue STA 56+00, eastbound
Sampled by: Contractor
Date Sampled: 05/31/2022
Date Tested: 06/02/2022
Lift: Middle 1

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Grading Mix Type: S
Mix Design Number: 2559

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	97	96	90 - 100
Sieve 1/2"	87	88	82 - 94
Sieve 3/8"	81	81	75 - 87
Sieve No. 4	67	64	59 - 69
Sieve No. 8	51	48	43 - 53
Sieve No. 16	36	34	
Sieve No. 30	24	23	19 - 27
Sieve No. 50	16	14	
Sieve No. 100	10	9	
Sieve No. 200	7.0	5.7	3.7 - 7.7
Asphalt Content (%)	5.51	5.20	4.90 - 5.50
Air Voids N_{design} (%)	2.07	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%) 13.7

Theoretical Maximum Specific Gravity / Density (pcf) 2.446 / 152.2

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000010

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 16
Sample Location: Belford Avenue, eastbound, STA: 54+50
Sampled by: Contractor
Date Sampled: 06/03/2022
Date Tested: 06/09/2022
Lift: Top

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Grading Mix Type: SX
Mix Design Number: 2562

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	100	100	94 - 100
Sieve 1/2"	96	96	90 - 100
Sieve 3/8"	88	89	83 - 95
Sieve No. 4	72	69	64 - 74
Sieve No. 8	54	51	46 - 56
Sieve No. 16	37	36	
Sieve No. 30	24	24	20 - 28
Sieve No. 50	15	15	
Sieve No. 100	9	9	
Sieve No. 200	6.5	6.0	4.0 - 8.0
Asphalt Content (%)	5.29	5.50	5.20 - 5.80
Air Voids N_{design} (%)	4.39	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%)	14.9
Theoretical Maximum Specific Gravity / Density (pcf)	2.461 / 153.2

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000011

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 17
Sample Location: Belford Avenue, eastbound, STA:24+50
Sampled by: Contractor
Date Sampled: 06/06/2022
Date Tested: 06/14/2022
Lift: Top

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Paving Contractor: Schmidt Construction Company
Grading Mix Type: SX
Mix Design Number: 2562

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	100	100	94 - 100
Sieve 1/2"	94	96	90 - 100
Sieve 3/8"	88	89	83 - 95
Sieve No. 4	73	69	64 - 74
Sieve No. 8	55	51	46 - 56
Sieve No. 16	38	36	
Sieve No. 30	25	24	20 - 28
Sieve No. 50	15	15	
Sieve No. 100	10	9	
Sieve No. 200	6.7	6.0	4.0 - 8.0
Asphalt Content (%)	5.35	5.50	5.20 - 5.80
Air Voids N_{design} (%)	3.72	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%)	15.0
Theoretical Maximum Specific Gravity / Density (pcf)	2.444 / 152.1

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000012

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:
Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:
153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 18
Sample Location: Belford Avenue, westbound, STA 50+50
Sampled by: Contractor
Date Sampled: 06/06/2022
Date Tested: 06/14/2022
Lift: Top

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Paving Contractor: Schmidt Construction Company
Grading Mix Type: SX
Mix Design Number: 2562

LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	100	100	94 - 100
Sieve 1/2"	98	96	90 - 100
Sieve 3/8"	88	89	83 - 95
Sieve No. 4	69	69	64 - 74
Sieve No. 8	52	51	46 - 56
Sieve No. 16	37	36	
Sieve No. 30	25	24	20 - 28
Sieve No. 50	15	15	
Sieve No. 100	10	9	
Sieve No. 200	6.4	6.0	4.0 - 8.0
Asphalt Content (%)	5.2	5.50	5.20 - 5.80
Air Voids N_{design} (%)	3.72	3.50	2.3 - 4.7

Voids in Mineral Aggregate (%) 14.8

Theoretical Maximum Specific Gravity / Density (pcf) 2.444 / 152.1

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

Asphalt Laboratory Testing Summary

Report #: AP-000013

A.G. WASSENAAR, INC.

Field Services
3211 South Zuni Street
Englewood, CO 80110
Phone: (303) 759-8100

Client:

Belford North Metropolitan District
c/o Clifton Larson Allen
8390 East Crescent Parkway, Suite 300
Greenwood Village, CO 80111

Project:

153733
Compark Village South, Filing 1 Infrastructure
Peoria and Belford
Parker, CO 00000

SAMPLE INFORMATION

Sample No.: 19
Sample Location: Belford Avenue, westbound, STA: 26+50
Sampled by: Contractor
Date Sampled: 06/07/2022
Date Tested: 06/16/2022
Lift: Top

CONTRACTOR, SUPPLIER, AND MIX DESIGN INFORMATION

Supplier: Schmidt Construction Company
Paving Contractor: Schmidt Construction Company
Grading Mix Type: SX
Mix Design Number: 2562

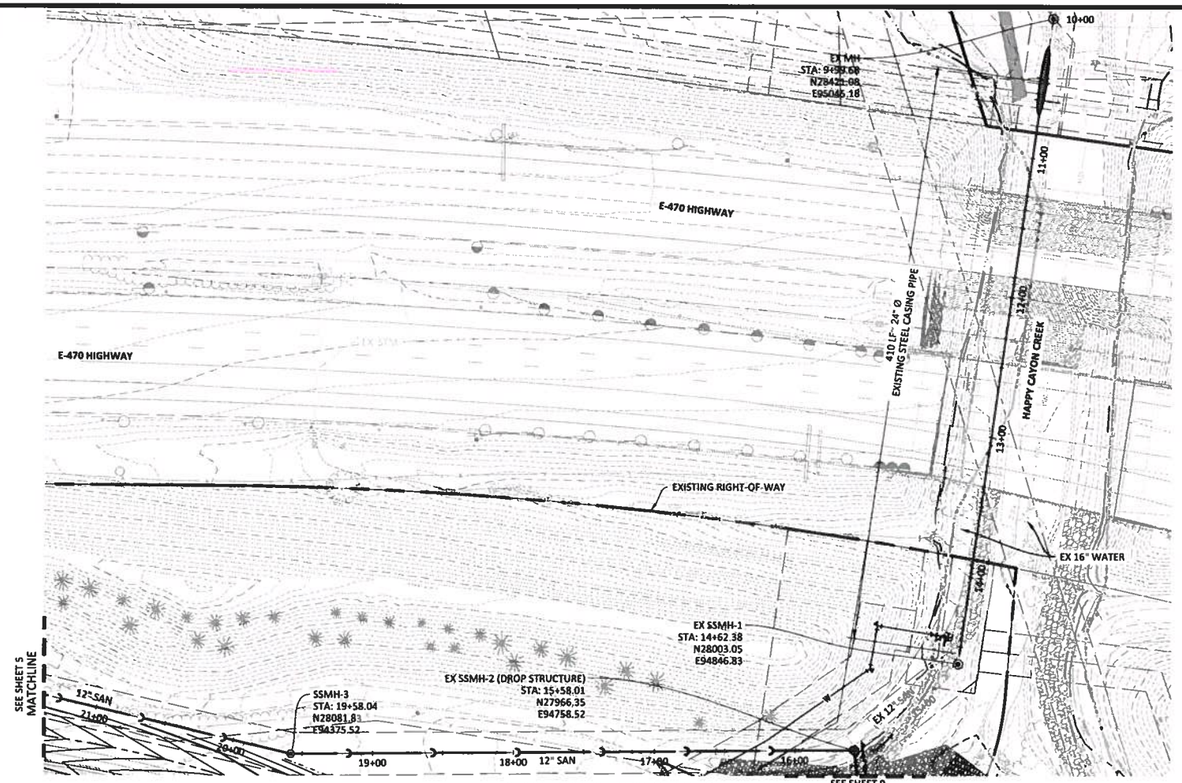
LABORATORY DATA

Sieve Size	Result	Mix Design	Tolerance
Sieve 1-1/2"	100	100	100
Sieve 1"	100	100	100
Sieve 3/4"	100	100	94 - 100
Sieve 1/2"	97	96	90 - 100
Sieve 3/8"	89	89	83 - 95
Sieve No. 4	73	69	64 - 74
Sieve No. 8	54	51	46 - 56
Sieve No. 16	38	36	
Sieve No. 30	24	24	20 - 28
Sieve No. 50	14	15	
Sieve No. 100	9	9	
Sieve No. 200	6.0	6.0	4.0 - 8.0
Asphalt Content (%)	5.42	5.50	5.20 - 5.80
Air Voids N_{design} (%)	4.20	3.50	2.3 - 4.7

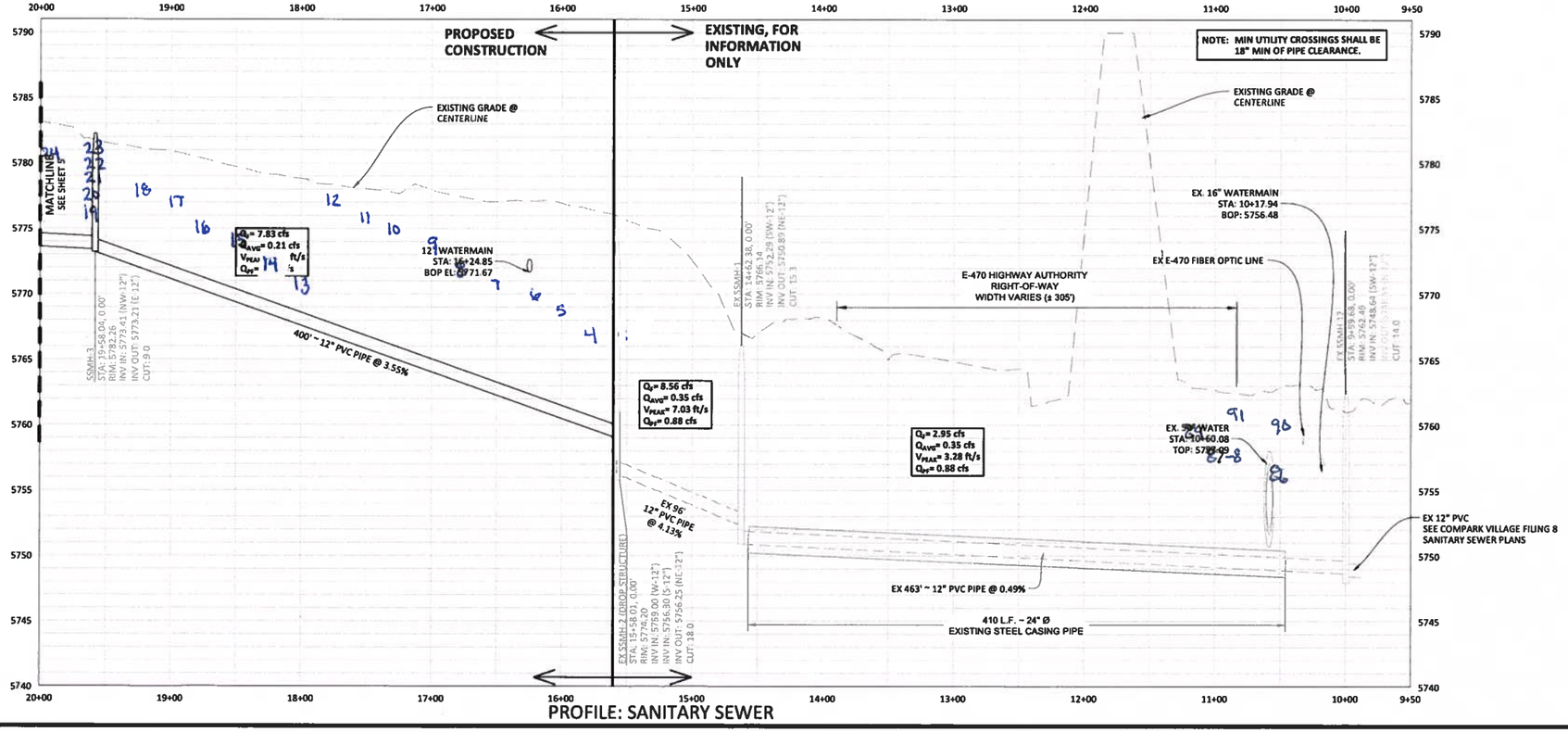
Voids in Mineral Aggregate (%)	15.0
Theoretical Maximum Specific Gravity / Density (pcf)	2.457 / 152.9

Note: Neither an asphalt content nor an aggregate gradation correction factor has been applied.
Testing performed in general conformance with AASHTO T30, T166, T209, T269, T283, T308, T312, CP-L5115 and ASTM D5444, D2726, D2041, D6926, D6927, D3203, D4867, D6307, D6925

SECTION 5



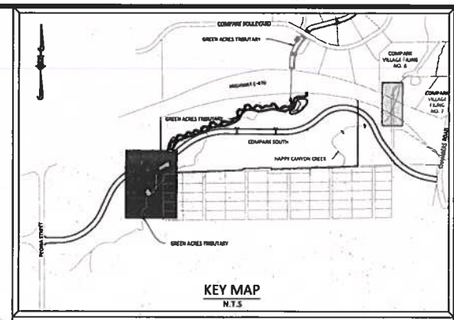
PLAN: SANITARY SEWER



PROFILE: SANITARY SEWER



SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



KEY MAP
N.T.S.

SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

CONTRACTOR TO FIELD VERIFY LOCATIONS/ELEVATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES

NOTES:

1.) SET ALL MANHOLE RIMS NOT IN PAVED AREAS 6" ABOVE FINISHED GRADE AND PROVIDE CARSONITE MARKER POST AT 5' OFFSET.

2.) CONTRACTOR SHALL OBTAIN A GROUNDWATER DISCHARGE PERMIT FOR ALL WORK ADJACENT TO HAPPY CANYON CREEK.

3.) CONTRACTOR SHALL USE PROPER PIPE SKIDS IN CONJUNCTION WITH EXISTING 24" STEEL CASING PER DETAIL ON THIS SHEET.

4.) CONTRACTOR TO COORDINATE WITH ADJACENT COMPARK VILLAGE FILING 8 PROJECT FOR TIMING OF THE SANITARY SEWER CONNECTION THROUGH THE EXISTING SLEEVE TO THE DOWNSTREAM STRUCTURE EXSSMH12.

5.) ALL SURFACE FEATURES LOCATED IN LANDSCAPE AREAS ARE REQUIRED TO HAVE A MARKER POST WITH A CONCRETE COLLAR.

811 Know what's below. Call before you dig.

DATE	DESCRIPTION	BY
01/30/2020	UPDATED PER STORMWATER REVISIONS	LAH
3/4/2020	UPDATED PER STORMWATER REVISIONS	MAM
11/2019	REVISED STEEL CASING	SEK
03/2017	REVISED FOR EXISTING SLEEVE UNDER E470	RAK
06/2016	REVISED PER STORMCAD 5/17/16 LETTER	BMB
11/2015	1ST SUBMITTAL	EG

Manhard CONSULTING
7600 East Orchard Road, Suite 150-N, Greenwood Village, CO 80111 ph:303.708.0500 manhard.com
Civil Engineering | Surveying | Water Resource Management | Construction Management

COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
SANITARY SEWER PLAN & PROFILE

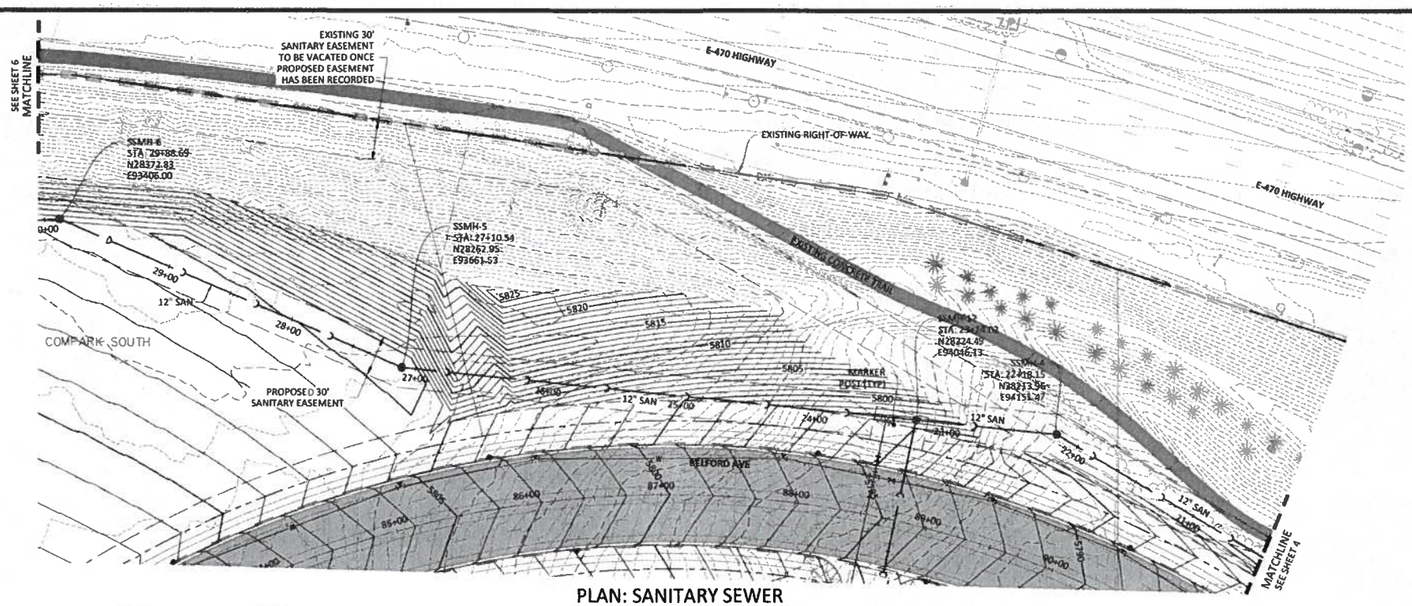
COLORADO REGISTERED PROFESSIONAL ENGINEER
30877
11-20-2020

PROJ. MGR.: RJM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

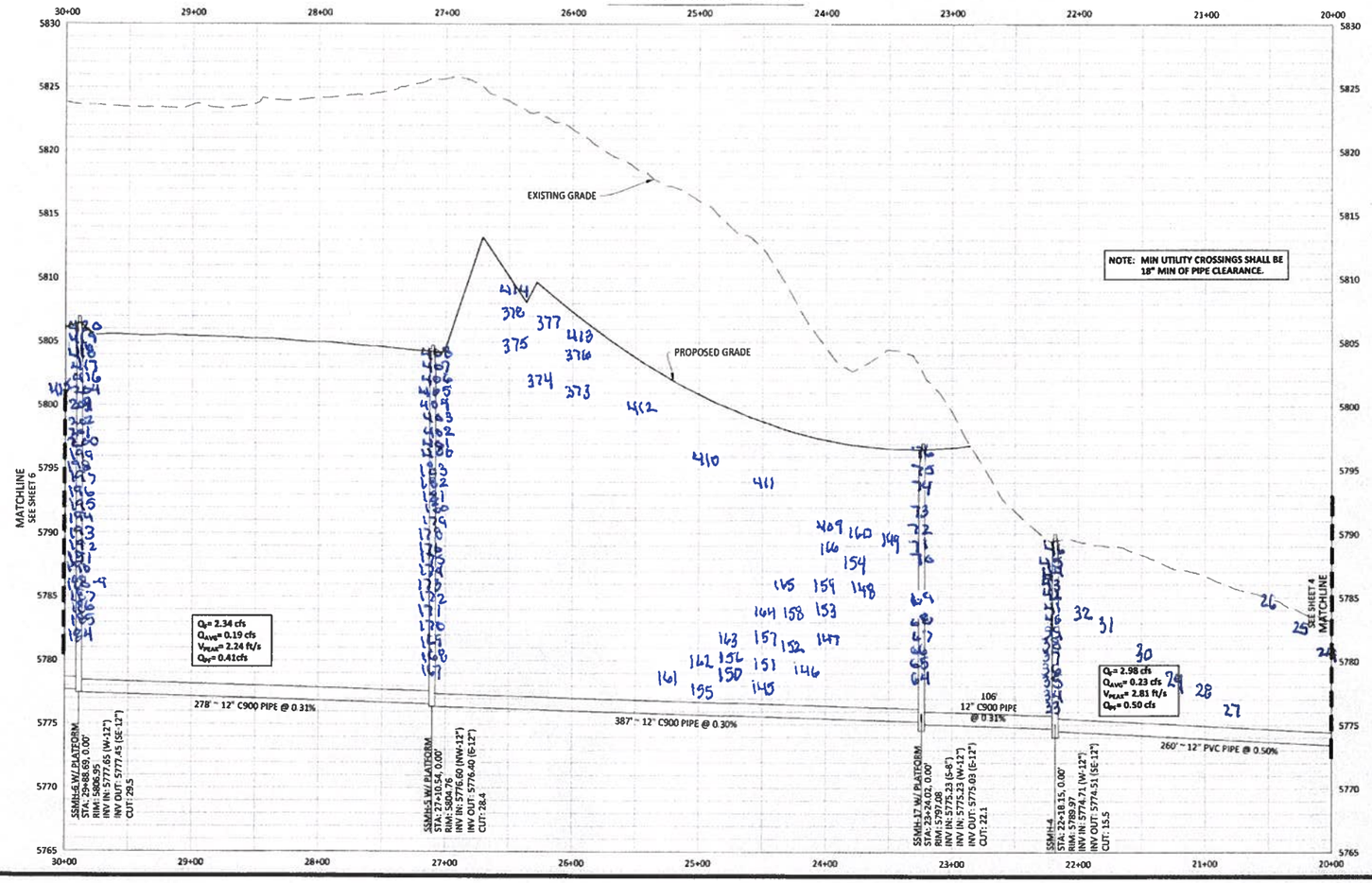
SHEET 4 OF 23
CLCPKC3

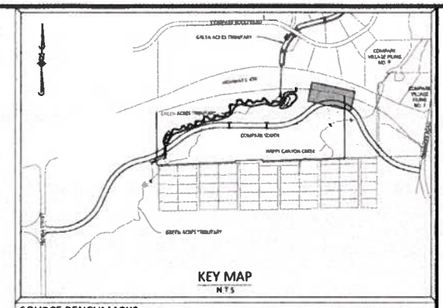
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Plotted: 11/20/2020 10:39 AM By: Nonie P:\Clarke\Com South\2 Filing 1 No CAT\Water Water and Sewer\Utilia\CLCPKC3-Offsite-San PAP-1a-ORIGINAL.dwg Updated By: JMcElhone



PLAN: SANITARY SEWER





SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1 115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

N

0 25 50 100

SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

811 Know what's below. Call before you dig.

NOTE: SET ALL MANHOLE RIMS NOT IN PAVED AREAS 6" ABOVE FINISHED GRADE W/ CONCRETE COLLAR AND PROVIDE CARSONITE MARKER POST AT 5' OFFSET.

NO.	DATE	REVISIONS	DRAWN BY
4	01/28/2020	UPDATED DESIGN	JAH
3	11/20/2020	UPDATED PER STORMWATER REVISIONS	JAH
2	3/4/2020	UPDATED PER STORMWATER REVISIONS	MJAN
1	11/2019	REVISED STEEL CASING ON NW 8" PIPE TO CUT	SSK
C	11/2019	REVISED PER STORMWATER REVIEW	SSK
C	10/2016	REVISED PER STORMWATER 8/27/16 LETTER	RAK
B	06/2016	REVISED PER STORMWATER 5/17/16 LETTER	RAK
A	11/2015	1ST SUBMITTAL	BMB
			CLC

Manhard CONSULTING
7600 East Orchard Road, Suite 150N, Greenwood Village, CO 80111 ph 303 708 0500 manhard.com
Civil Engineering | Surveying & Geospatial Services | GIS
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COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
SANITARY SEWER PLAN & PROFILE

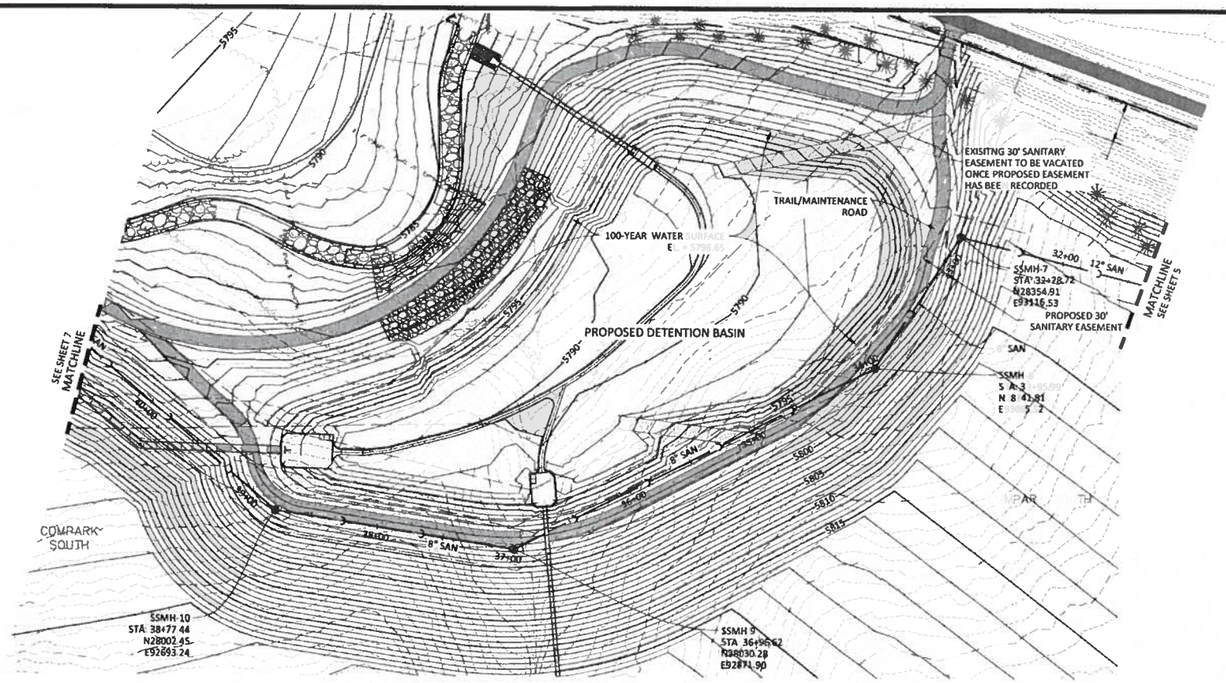
COLORADO REGISTERED ROBERT J. MOORE 30877 PROFESSIONAL ENGINEER 9-1-21

PROJ. MGR.: BJM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

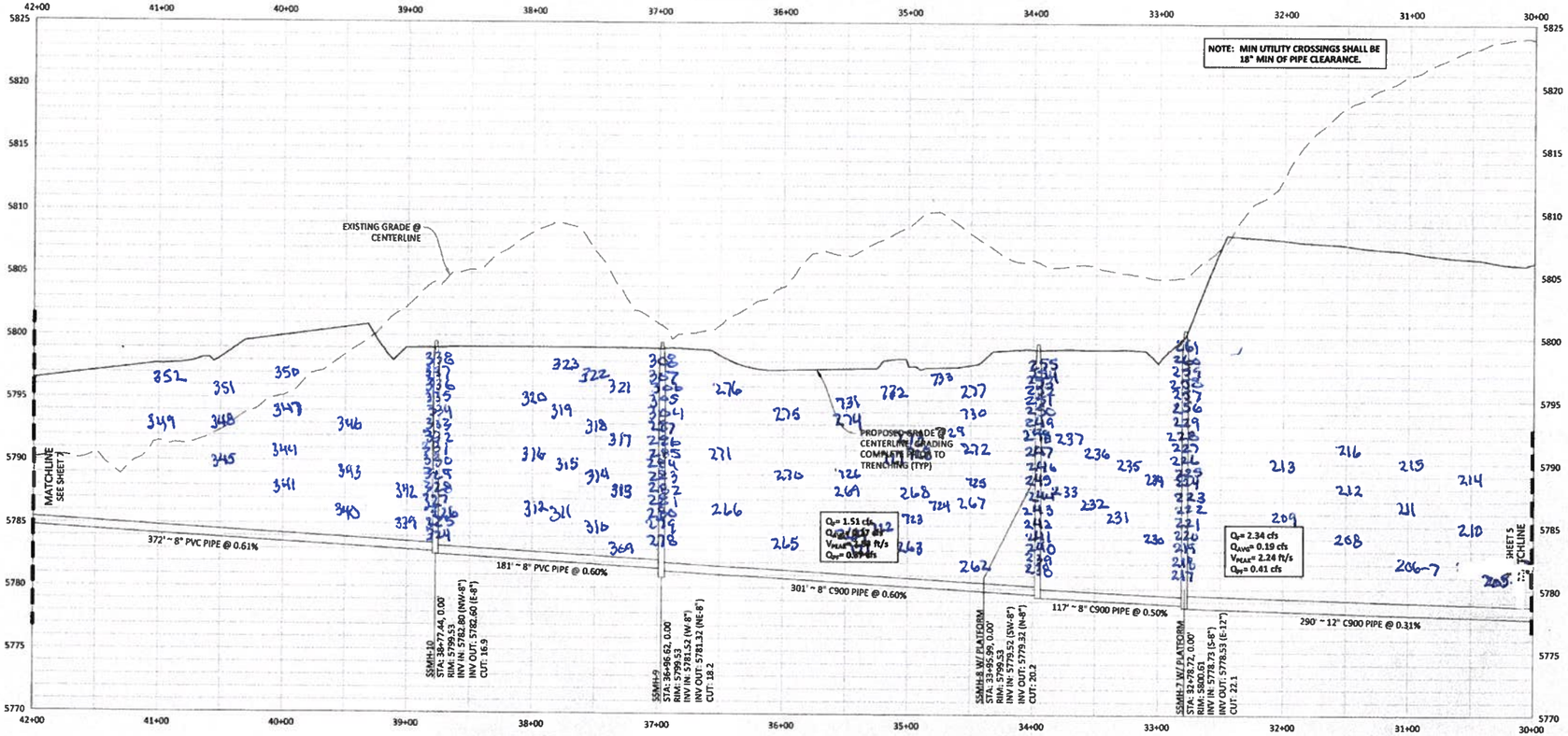
SHEET 5 OF 23
CLCPKC3

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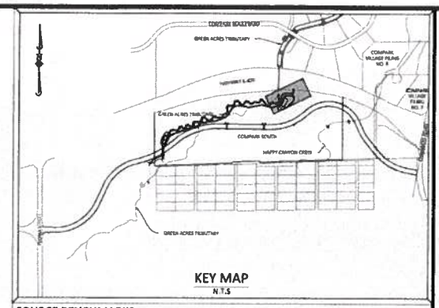
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PLAN: SANITARY SEWER



PROFILE: SANITARY SEWER



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

NOTE: SET ALL MANHOLE RIMS NOT IN PAVED AREAS 6" ABOVE FINISHED GRADE W/ CONCRETE COLLAR AND PROVIDE CARSONITE MARKER POST AT 5' OFFSET.

NO.	DATE	REVISIONS	DESIGN BY
11	02/28/2020	UPDATED DESIGN	JAH
10	12/20/2019	UPDATED PER STORMWATER REVISIONS	JAH
9	11/7/2019	REVISED PER STORMWATER REVISIONS	ESK
8	11/7/2019	REVISED STEEL CASING (UNDER CAP) PER LOCATE	ESK
7	10/2017	REVISED FOR EXISTING SEWER UNDER EA'D	BAK
6	8/2016	REVISED PER STORMGATE 9/22/16 LETTER	BAK
5	6/2016	REVISED PER STORMGATE 5/27/16 LETTER	BAK
4	1/2015	1ST SUBMITTAL	EG

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7600 East Orchard Road, Suite 150-S, Greenwood Village, CO 80111 ph: 303.708.0500 manhard.com
Civil Engineering | Surveying | Water Resource Management | Construction Management

COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
SANITARY SEWER PLAN & PROFILE

COLORADO REGISTERED PROFESSIONAL ENGINEER 30877 2-1-21

PROJ. MGR.: BJM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

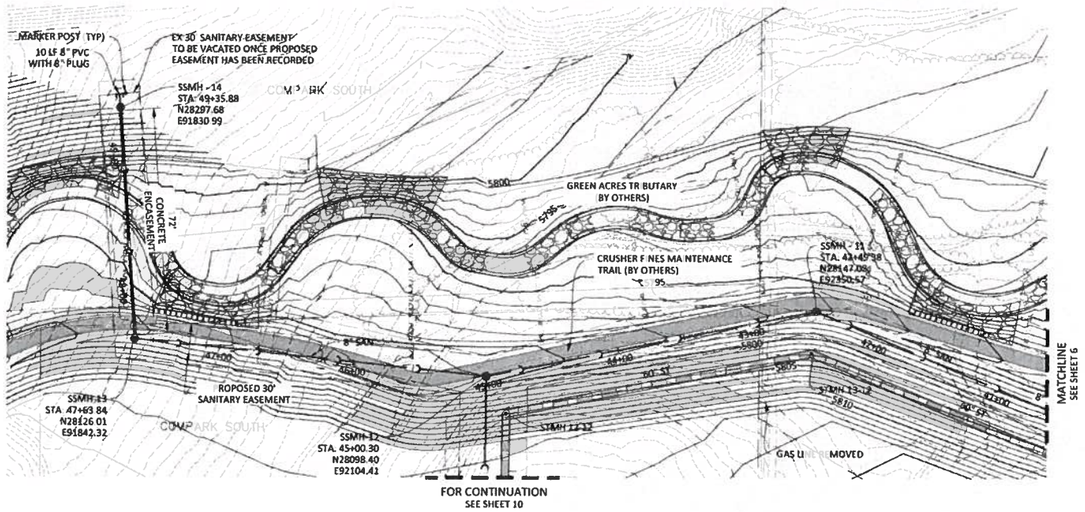
SHEET 6 OF 23

CLCPKC3

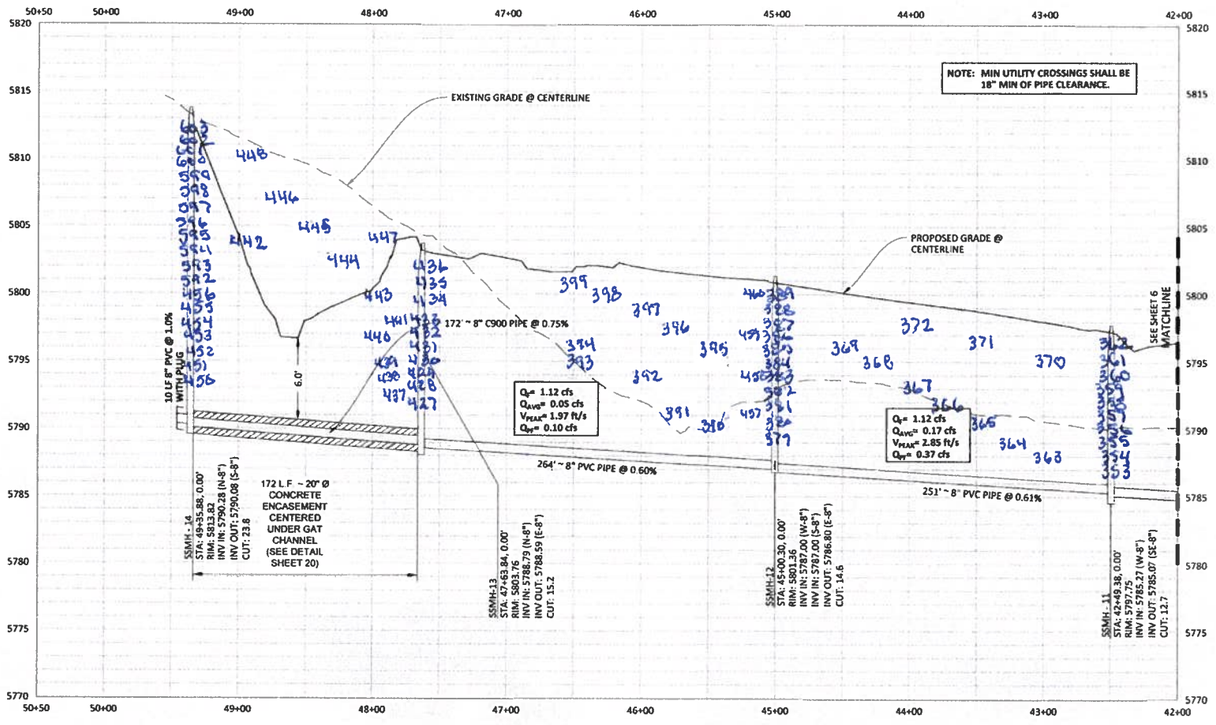
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VERTICAL SCALE: 1"=5'

Know what's below. Call before you dig.

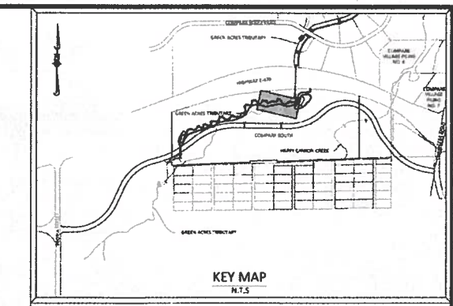
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PLAN: SANITARY SEWER



PROFILE: SANITARY SEWER



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

NOTE: SET ALL MANHOLE RIMS NOT IN PAVED AREAS 6" ABOVE FINISHED GRADE W/ CONCRETE COLLAR AND PROVIDE CARSONITE MARKER POST AT 5' OFFSET.

	DATE	REVISIONS	DRAWN BY
H	01/28/2020	UPDATED PER SWSM	JAH
G	12/20/2019	UPDATED PER STORMWATER REVISIONS	JAH
F	3/4/2019	UPDATED PER STORMWATER REVISIONS	MAK/K
E	01/2017	REVISED TO SHOW EXISTING SEWER LOCATE	RKE
D	01/2017	REVISED TO SHOW EXISTING SEWER UNDER GAT	RKE
C	10/2016	REVISED PER STORMGATE 9/22/16 LETTER	RAK
B	09/2016	REVISED PER STORMGATE 5/17/16 LETTER	BRB
A	12/2015	1ST SUBMITTAL	TEC

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N

0 25 50 100
SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

811 Know what's below. Call before you dig.

COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
SANITARY SEWER PLAN & PROFILE

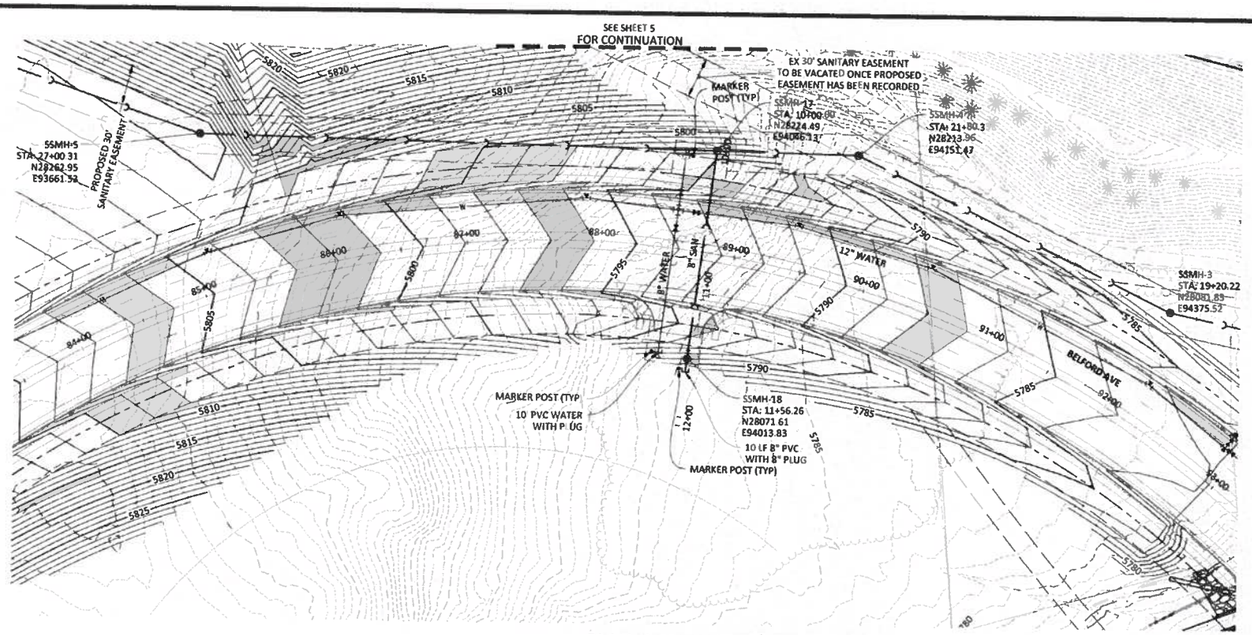
COLORADO REGISTERED PROFESSIONAL ENGINEER
JACK E. MOORE
30877
01-31

PROJ MGR.: RJM
PROJ ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

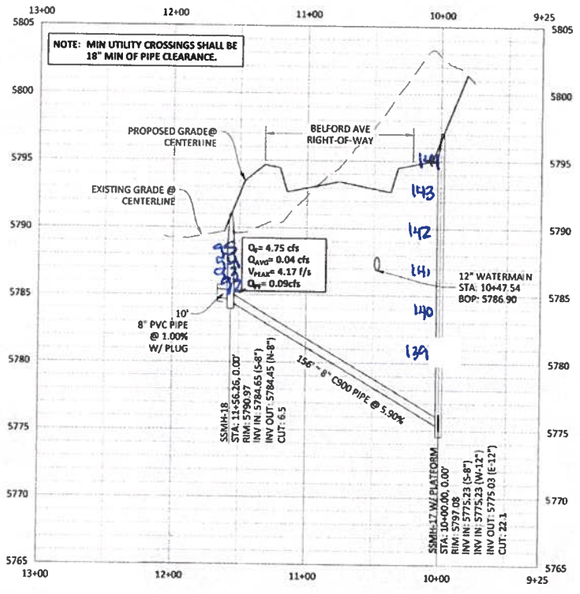
SHEET 7 OF 23
CLCPKC3

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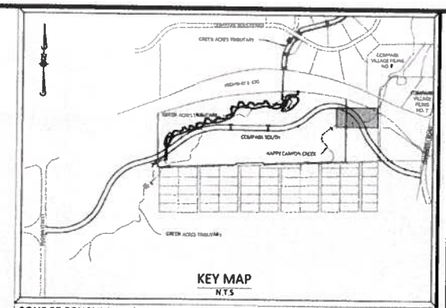
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PLAN: SANITARY SEWER



PROFILE: SANITARY SEWER



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

N

0 25 50 100
SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

811
Know what's **below.**
Call before you dig.

CONTRACTOR TO FIELD VERIFY LOCATION/ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES.

NOTE: SET ALL MANHOLE RIMS NOT IN PAVED AREAS 6" ABOVE FINISHED GRADE W/ CONCRETE COLLAR AND PROVIDE CARSONITE MARKER POST AT 5' OFFSET.

DATE	REVISIONS	DRAWN BY
A 01/29/2020	UPDATED PLSAVS	JAH
B 11/20/2020	UPDATED PER STORMWATER REVISIONS	SAH
C 11/2019	REVISED STEEL CASING WATER CROSSING LOCATE	MAM
D 11/2019	REVISED STEEL CASING WATER CROSSING LOCATE	MAM
E 03/2017	REVISED PER EXISTING SEWER UNDER 83D	RJK
F 10/2016	REVISED PER STORM GATE 9/2/16 LETTER	RJK
G 10/2016	REVISED PER STORM GATE 9/27/16 LETTER	RJK
AA 11/2015	1ST SUBMITTAL	BRG
		LG

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COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
SANITARY SEWER PLAN & PROFILE

COLORADO REGISTERED PROFESSIONAL ENGINEER
ROY L. MOORE
30877
2-1-21

PROJ. MGR.: RJM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

SHEET
8 OF 23

CLCPKC3

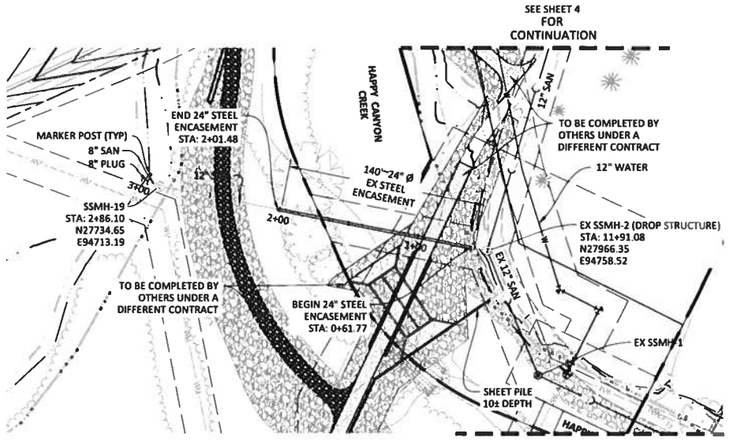
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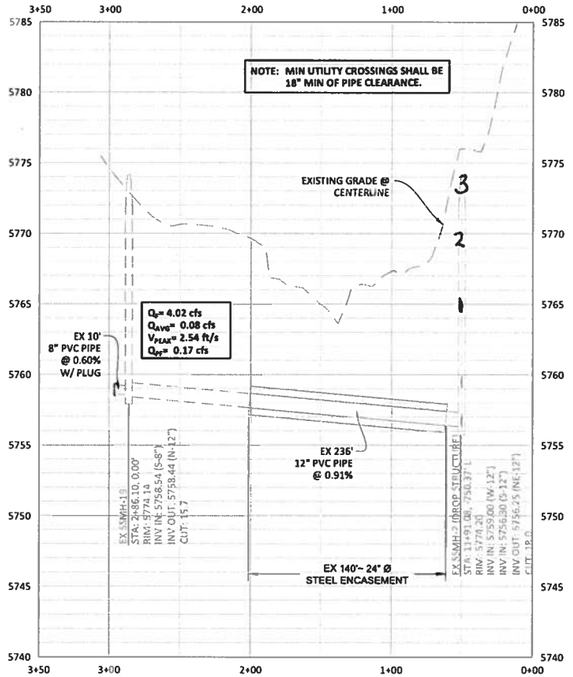
NOTE: SET ALL MANHOLE RIMS NOT IN PAVED AREAS 6" ABOVE FINISHED GRADE AND PROVIDE CARSONITE MARKER POST AT 5' OFFSET W/ CONCRETE COLLAR.

NOTE:

THIS SEGMENT OF SANITARY SEWER MAY NEED TO BE CONSTRUCTED W/ BELFORD AVE. BRIDGE & HAPPY CANYON CREEK CONSTRUCTION

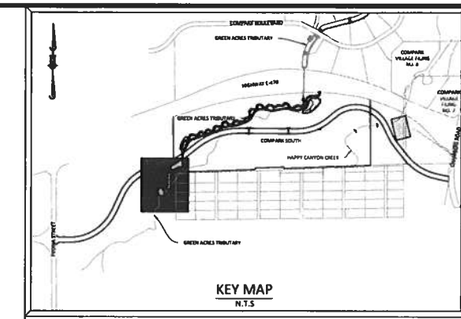


PLAN: SANITARY SEWER



PROFILE: SANITARY SEWER

FOR INFORMATION ONLY



KEY MAP

N.T.S

SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

DATE	REVISIONS	DESIGNED BY
11/20/2020	UPDATED PER STORMWATER REVISIONS	JAH
3/4/2020	UPDATED PER STORMWATER REVISIONS	KAM/AM
11/2019	REVISED STEEL CASING UNDER E-470 PER LOCATE	SEK
03/2017	REVISED FOR EXISTING SLEEVE UNDER E470	RAK
10/2016	REVISED PER STORMGATE 5/17/16 LETTER	RAK
04/2016	REVISED PER STORMGATE 5/17/16 LETTER	BRG
11/2015	1ST SUBMITTAL	EG

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0 25 50 100

SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

811 Know what's below. Call before you dig.

COMPARK VILLAGE SOUTH, FILING NO. 1

TOWN OF PARKER, COLORADO

SANITARY SEWER PLAN & PROFILE

COLORADO REGISTERED PROFESSIONAL ENGINEER
30877
11-20-2020

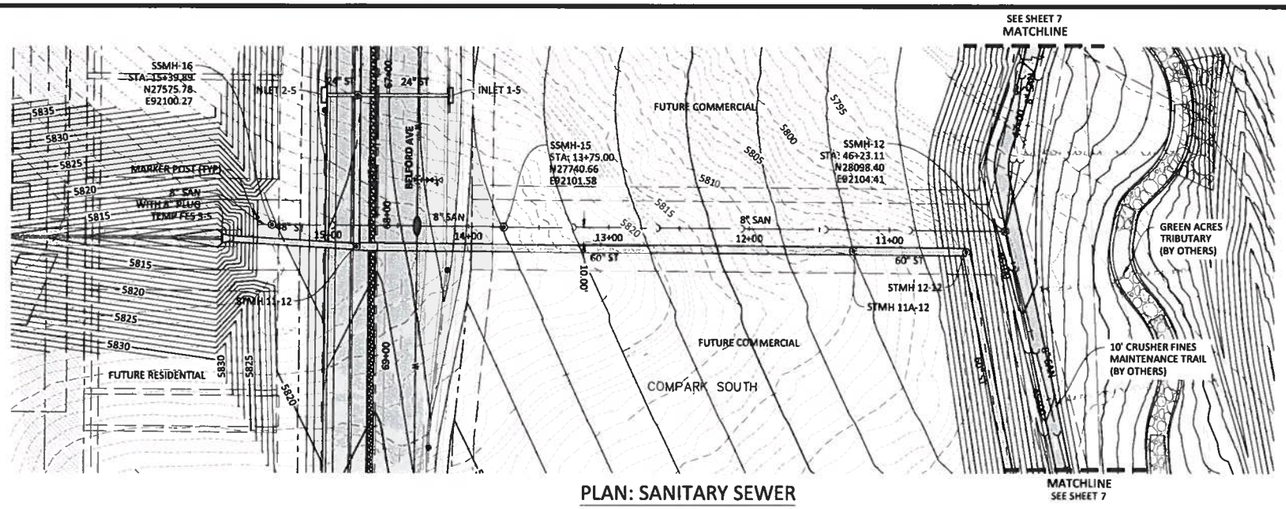
PROJ. MGR.: RJM
PROJ. ASSOC.: ASO
DRAWN BY: ETG
DATE: 03/2020

SHEET 9 OF 23

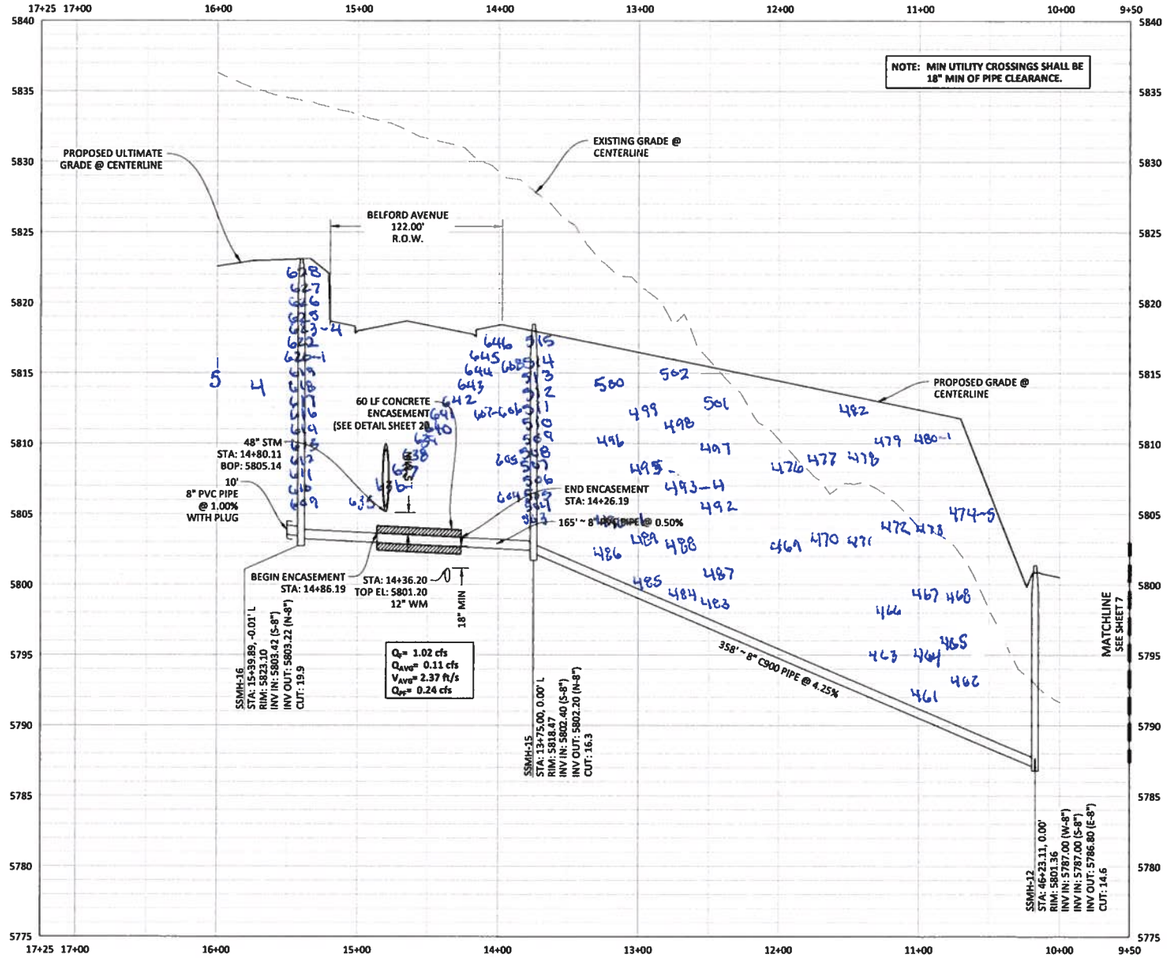
CLCPKC3

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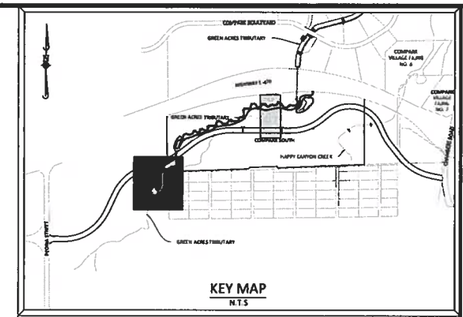
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PLAN: SANITARY SEWER



PROFILE: SANITARY SEWER



SOURCE BENCHMARKS:

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SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

Know what's below. Call before you dig.

DATE	REVISIONS	DRAWN BY
11/20/2020	UPDATED PER STORMWATER REVISIONS	JAH
3/4/2020	UPDATED PER STORMWATER REVISIONS	RAKAM
10/2017	REVISED PER STORMWATER REVISIONS, RELOCATE MH	RAK
03/2017	REVISED FOR EXISTING SLEEVE UNDER E470	RAK
10/2016	REVISED PER STORMCAT 9/27/16 LETTER	RAK
06/2016	REVISED PER STORMCAT 5/27/16 LETTER	BRB
12/2015	1ST SUBMITTAL	CEG

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COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
SANITARY SEWER PLAN & PROFILE

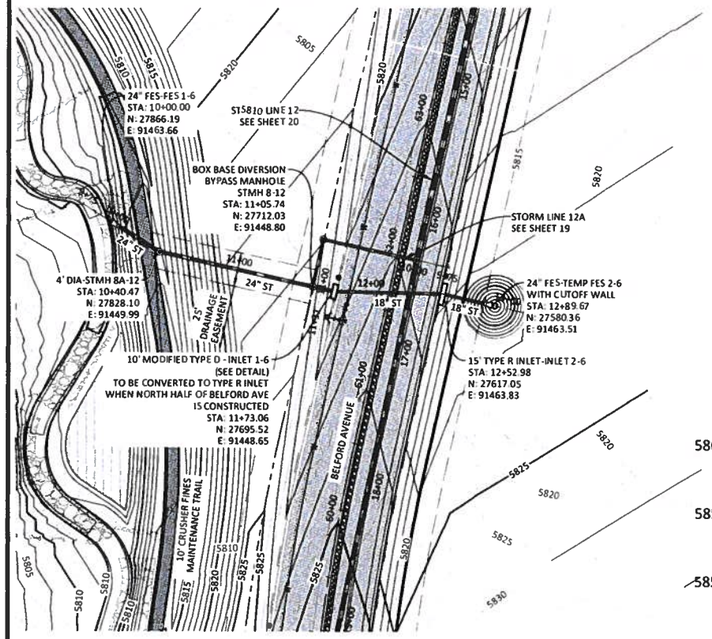
COLORADO REGISTERED PROFESSIONAL ENGINEER
JACKY L. ANDRE
30877
11-20-2020

PROJ. MGR.: RJM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

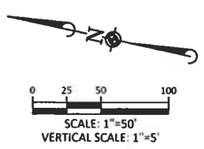
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10 OF 23
CLCPKC3

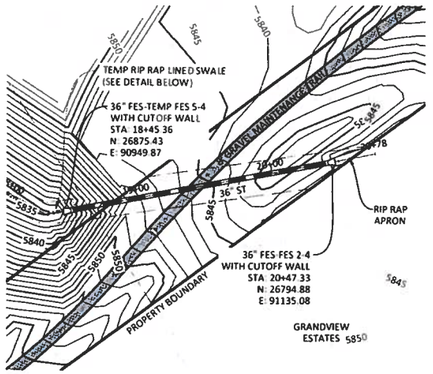
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Plotted: 11/20/2020 8:51 AM Dwg Name: p:\Docks3\compark\12-filing 1 no gd\master water and sewer\Offsite\CLCPKC3-Offsite-San P&P-S.dwg Updated By: jhawthorne

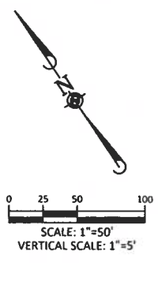


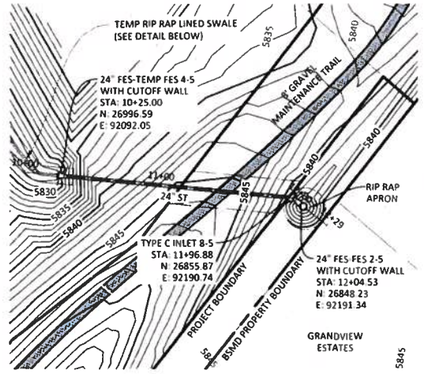
PLAN: STORM-6



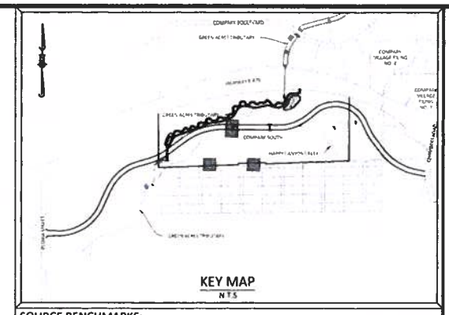


PLAN: STORM-4 (WEST BERM)



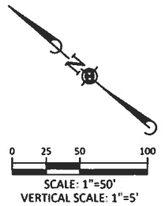


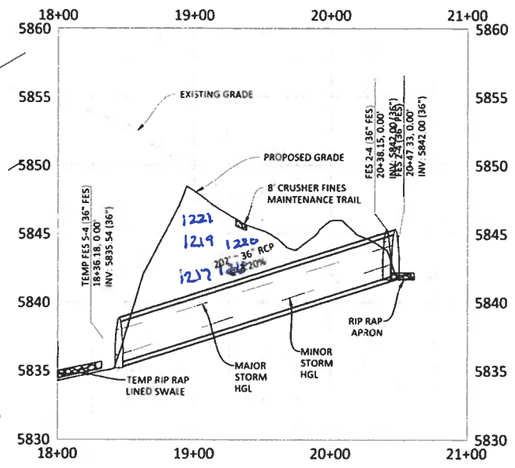
PLAN: STORM-5 (EAST BERM)



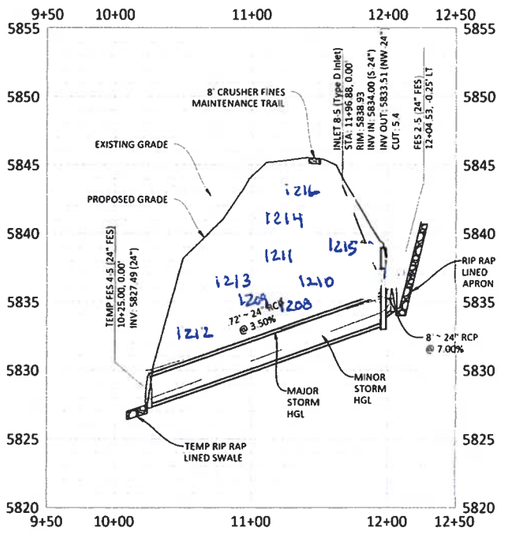
SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1 115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

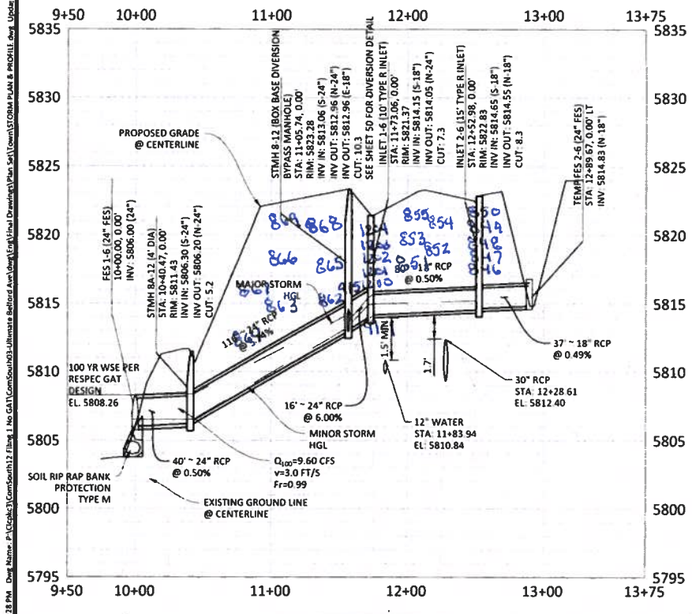




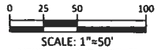
PROFILE: STORM-4 (WEST BERM)

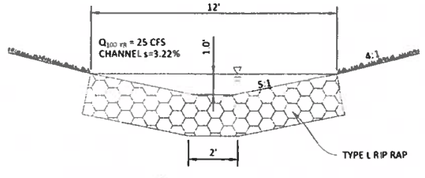


PROFILE: STORM-5 (EAST BERM)

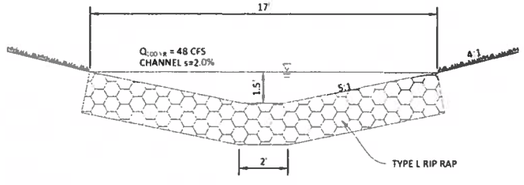


PROFILE: STORM-6
BELFORD AVE ℄ STA. 61+55.10





TEMPORARY RIP RAP SWALE
(WEST BERM)
N.T.S



TEMPORARY RIP RAP SWALE
(EAST BERM)
N.T.S

The Town of Parker review constitutes general compliance with the Town's Standards and approved variances, subject to these plans being stamped, signed, and dated by the professional engineer of record. Review by the Town does not constitute approval of the plan design or accuracy and correctness of engineering calculations. Errors in the design or calculations remain the responsibility of the registered professional engineer whose stamp and signature are affixed to this document.

This review does not constitute approval of any private on-site improvements which may be shown. Construction cannot commence until all required drainage/traffic report(s), final development plan(s), special review(s), grading permit, and/or other permits are complete, approved and on file with the Town of Parker.

Town of Parker, Director of Engineering — Date 12/17/2020

NO	DATE	REVISIONS	DRAWN BY
	09/2020	APPROVED	
7	07/31/20	RESPONSE TO TOWN COMMENTS	MH
6	07/07/20	RESPONSE TO TOWN COMMENTS	MH
5	05/07/20	RESPONSE & FLOOD CHECK SESSION	MH
4	12/21/16	FINAL SUBMITTAL	FG
3	11/21/16	4TH SUBMITTAL	FG
2	08/19/16	3RD SUBMITTAL	FG
1	4/11/16	2ND SUBMITTAL	FG
A	11/2015	1ST SUBMITTAL	EG

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Water Resource Management | Construction Management

COMPARK VILLAGE SOUTH, FILING NO. 1 - BELFORD AVENUE
TOWN OF PARKER, COLORADO
STORM PLAN & PROFILE

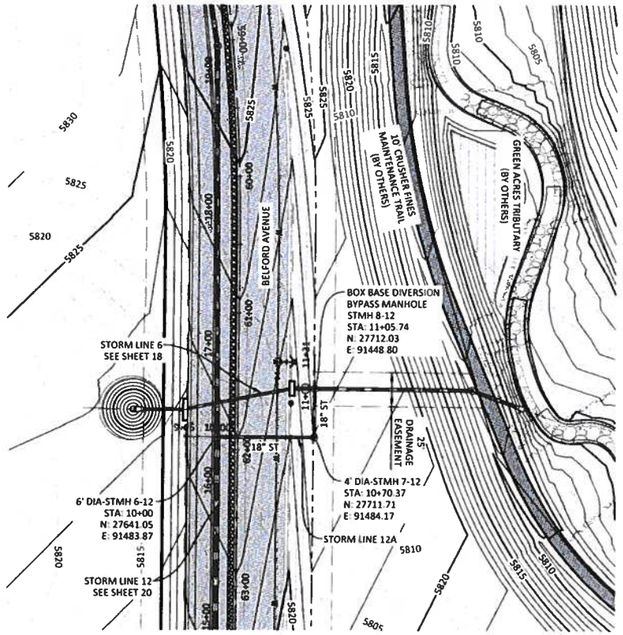
COLORADO REGISTERED PROFESSIONAL ENGINEER
30877
11-17-2020

PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY: ETG
DATE: 12/2015

SHEET
18 OF 50
CLCPKC3

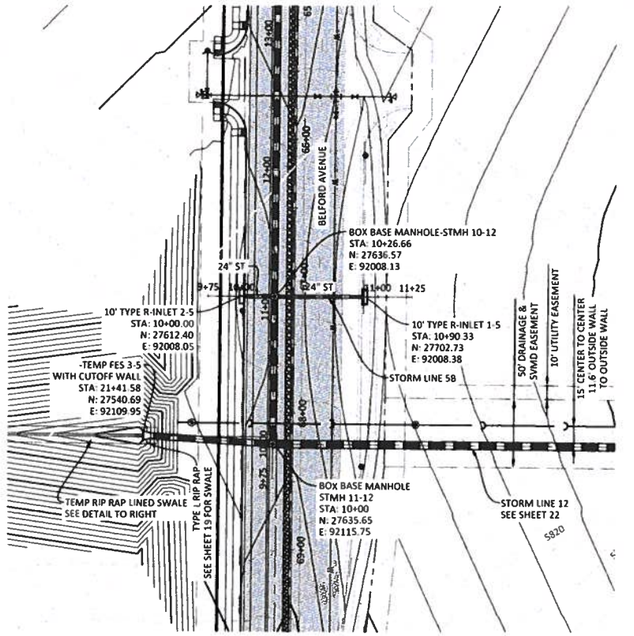
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Plotted: 10/30/2020 1:28 PM Dwg Name: P:\Civil\Clients\CLCPK\Comm\South\12 Filing 1 No GA1\Com\South\3-Ultimate Belford Ave\dwg\Engr\Final Drawings\Plan Set\Com\STORM PLAN & PROFILE.dwg Updated By: AJSpurlock



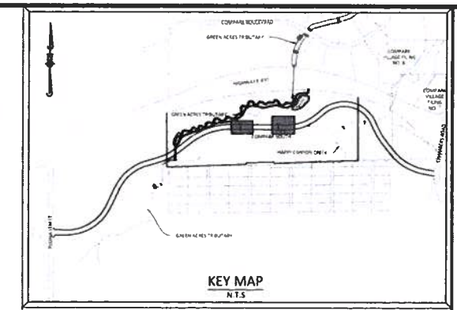
PLAN: STORM-12A

BELFORD AVE ℄ STA. 61+90.55



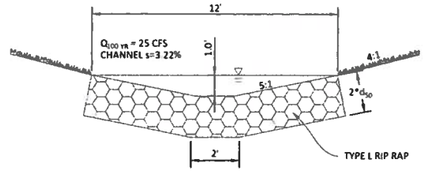
PLAN: STORM-5B

BELFORD AVE ℄ STA. 11+02.64



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
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TEMPORARY RIP RAP SWALE (WEST BERM)

N.T.S

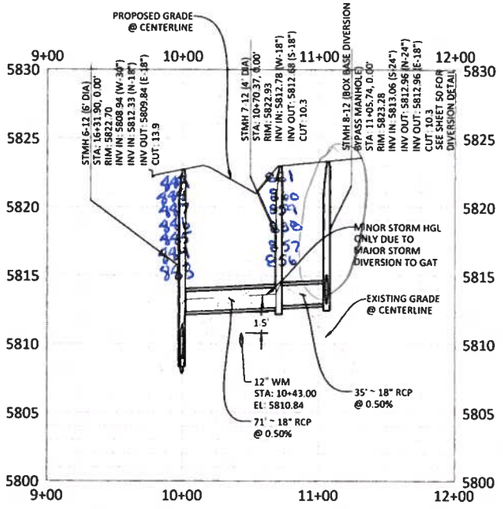
NO.	DATE	REVISIONS	DESIGN BY
I.	09/2020	APPROVED	EAH
H.	07/31/20	RESPONDED TO TOWN COMMENTS	EAH
G.	06/01/20	RESPONDED TO TOWN COMMENTS	EAH
F.	03/02/20	2ND SUBMITTAL & ADDED OFF-LINE DET. BASIN	BREAK
E.	12/27/16	FINAL SUBMITTAL	EG
D.	11/17/16	4TH SUBMITTAL	EG
C.	6/24/16	3RD SUBMITTAL	EG
B.	4/4/16	2ND SUBMITTAL	EG
A.	1/7/2015	1ST SUBMITTAL	EG

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Water Resource Management • Construction Management

COMPARK VILLAGE SOUTH, FILING NO. 1 - BELFORD AVENUE

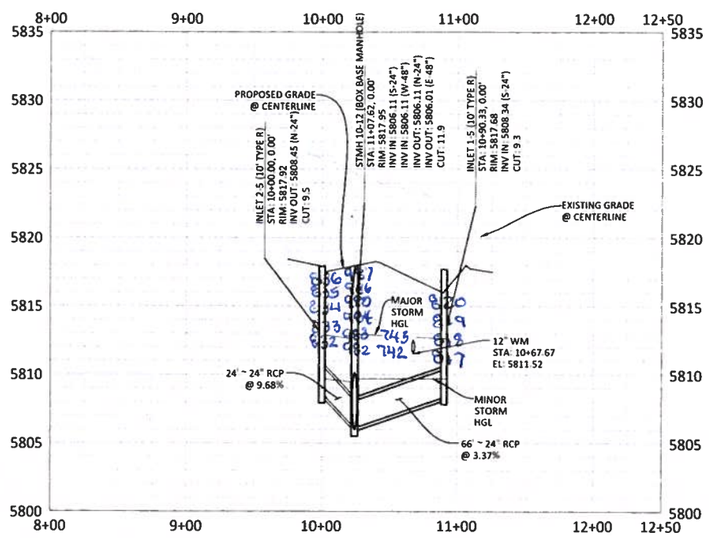
TOWN OF PARKER, COLORADO

STORM PLAN & PROFILE



PROFILE: STORM-12A

BELFORD AVE ℄ STA. 61+90.55



PROFILE: STORM-5B

BELFORD AVE ℄ STA. 11+02.64

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Town of Parker, Director of Engineering — Date: 12/17/2020

COLORADO REGISTERED 30877 11-17-2020 PROFESSIONAL ENGINEER

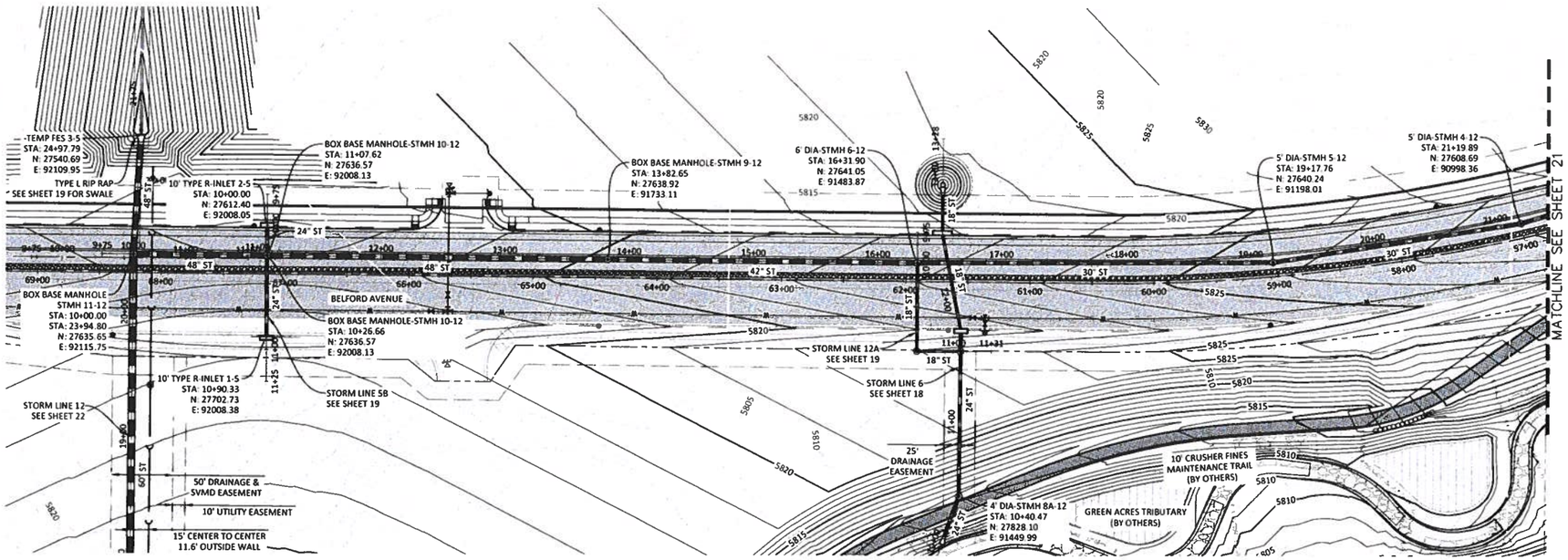
PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY: ETG
DATE: 12/2015

SHEET 19 OF 50

CLCPKC3

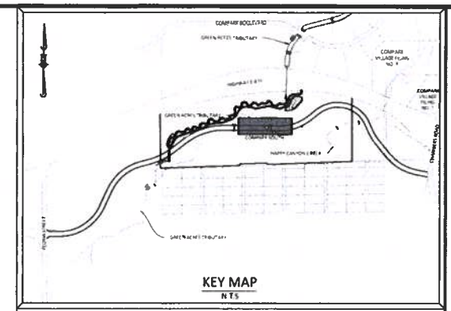
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PLAN: STORM-12
STA: 10+00 TO 21+00

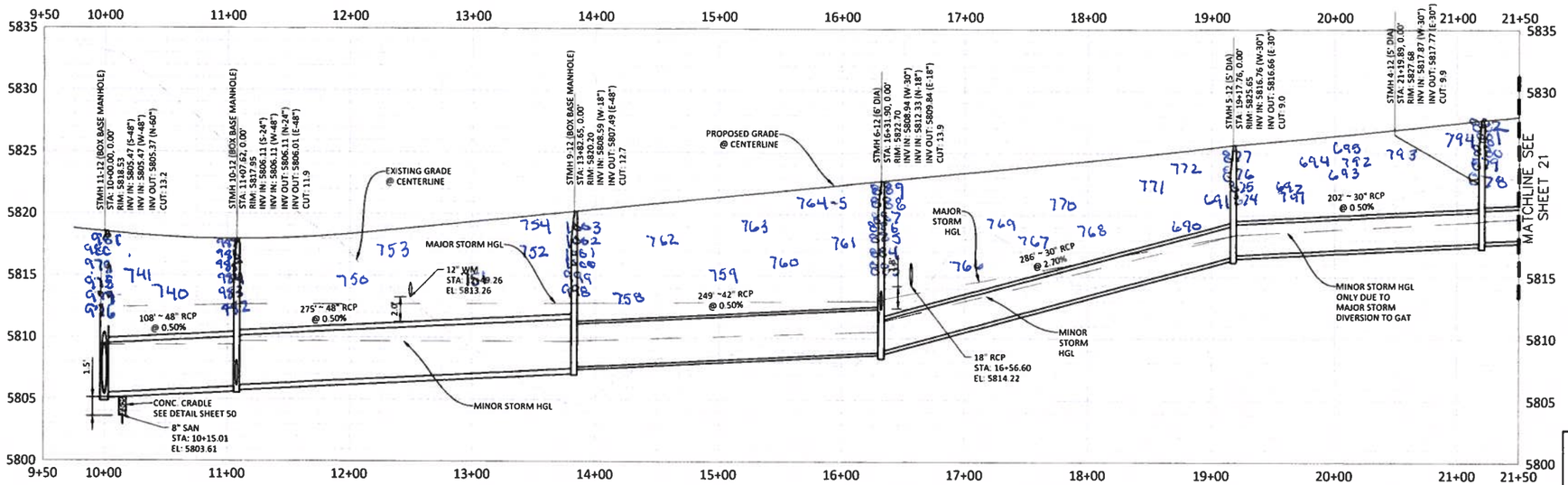
SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1 115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



PROFILE: STORM-12

SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

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12/17/2020
Town of Parker, Director of Engineering — Date

NO.	DATE	APPROVED	DRAWN BY
I.	09/2020	APPROVED	JAH
H.	07/31/20	RESPONSED TO TOWN COMMENTS	JAH
G.	06/05/20	RESPONSED TO TOWN COMMENTS	JAH
F.	12/17/16	PUBLIC & FINAL SUBMITTAL	ETG
E.	12/21/16	FINAL SUBMITTAL	ETG
D.	11/1/16	4TH SUBMITTAL	ETG
C.	6/24/16	3RD SUBMITTAL	ETG
B.	3/2/16	2ND SUBMITTAL	ETG
A.	11/2015	1ST SUBMITTAL	ETG

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COMPARK VILLAGE SOUTH, FILING NO. 1 - BELFORD AVENUE
TOWN OF PARKER, COLORADO
STORM PLAN & PROFILE

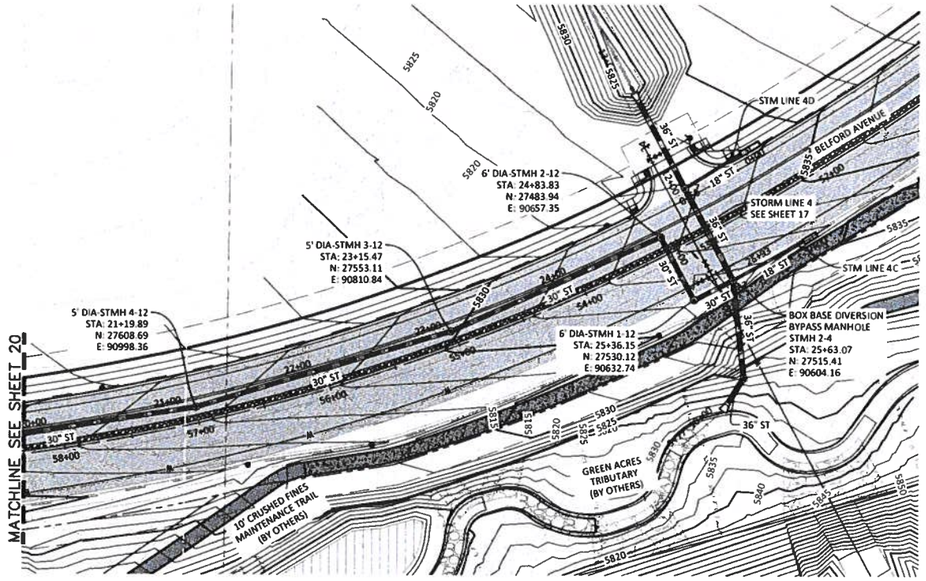
COLORADO REGISTERED PROFESSIONAL ENGINEER
JAMES H. HOLT
30877
11-17-2020

PROJ MGR.: RJM
PROJ ASSOC.: BRB
DRAWN BY: ETG
DATE: 12/2015

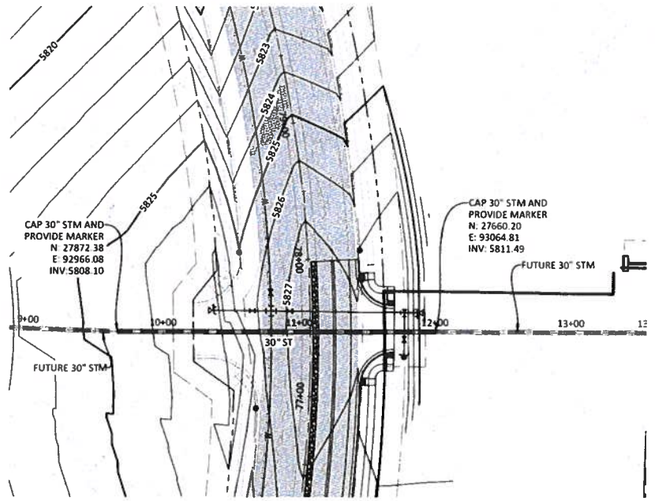
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20 OF 50
CLCPKC3

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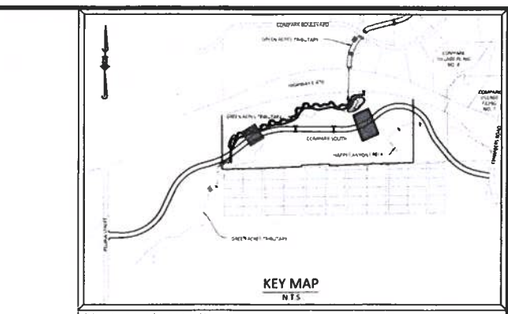
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PLAN: STORM-12
STA: 21+00 TO 25+63.07



PROFILE: STORM-FUTURE STORM CAP
BELFORD AVE ℄ STA. 77+47.20



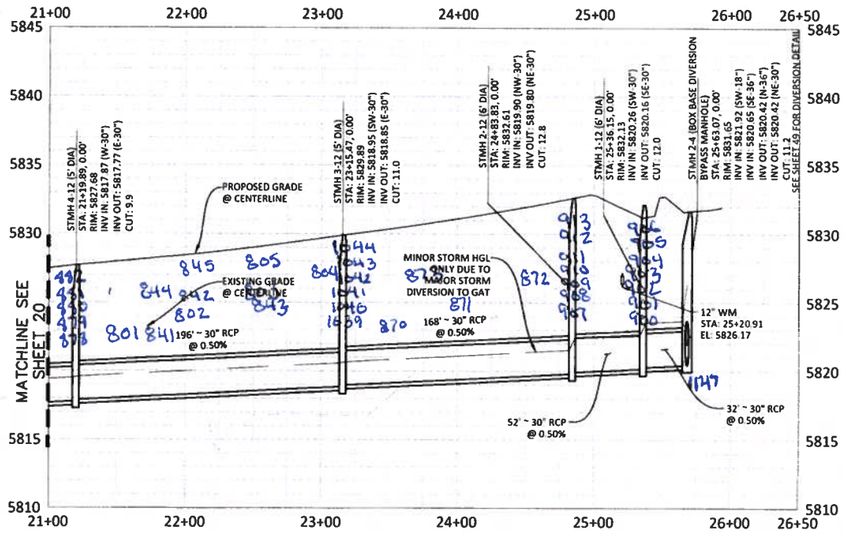
SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

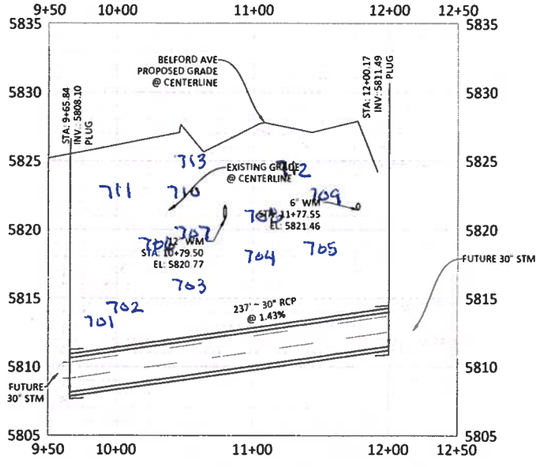
	DATE	REVISIONS	DRAWN BY
H.	07/17/20	APPROVED	JAH
G.	06/01/20	RESPONDED TO TOWN COMMENTS	JAH
F.	03/02/20	RESPONDED TO TOWN COMMENTS	MAM
E.	12/20/19	UPDATE GAT & ADD OFF-LINE DET BASIN	MAM
D.	11/13/19	4TH SUBMITTAL	EG
C.	11/1/19	3RD SUBMITTAL	EG
B.	6/14/19	3RD SUBMITTAL	EG
A.	4/19/19	2ND SUBMITTAL	EG
	1/28/19	1ST SUBMITTAL	EG

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COMPARK VILLAGE SOUTH, FILING NO. 1 - BELFORD AVENUE
TOWN OF PARKER, COLORADO
STORM PLAN & PROFILE



PROFILE: STORM-12
STA: 21+00 TO 25+63.07



PLAN: STORM-FUTURE STORM CAP
BELFORD AVE ℄ STA. 77+47.20

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Town of Parker, Director of Engineering — Date: 12/17/2020

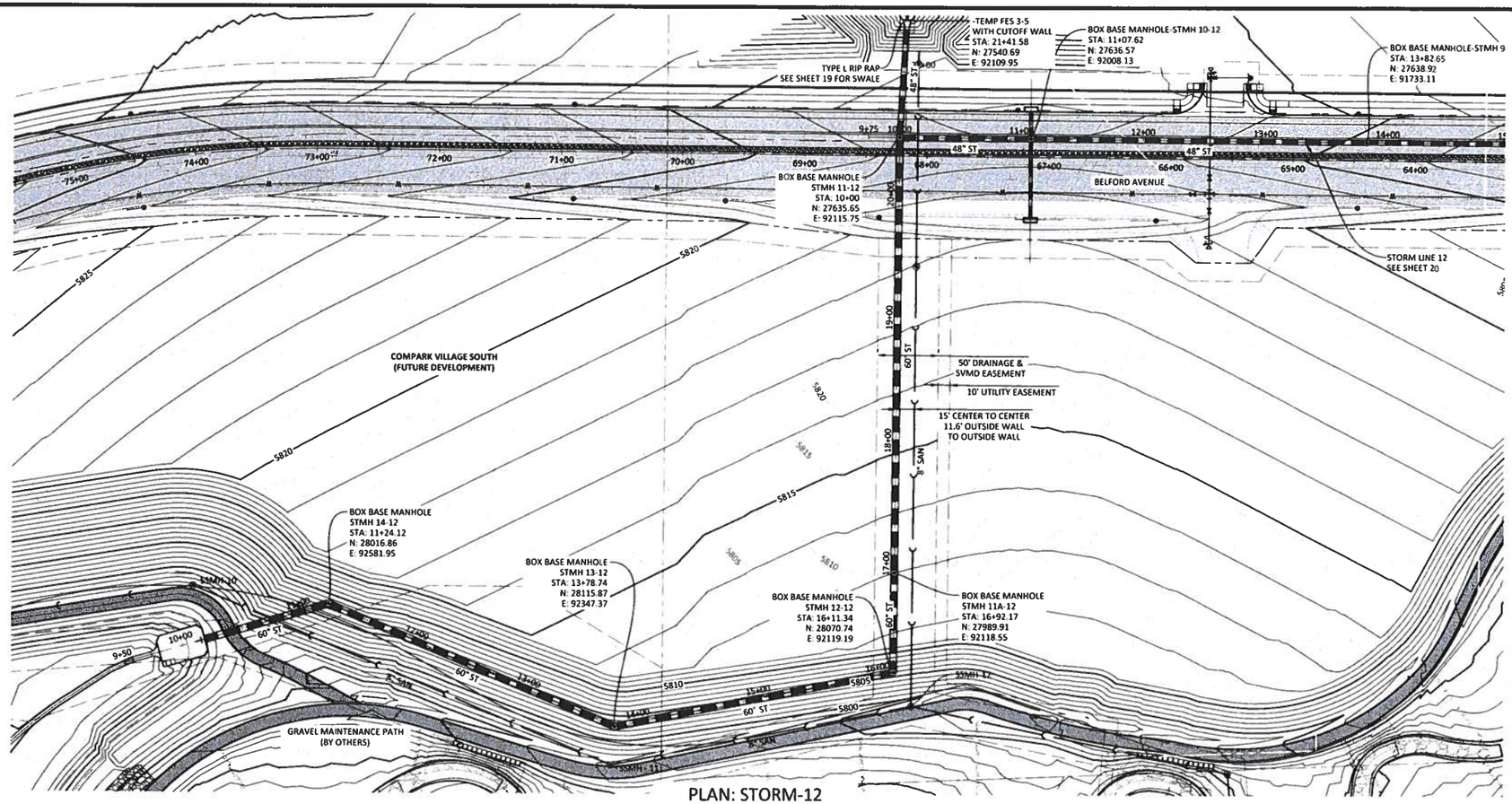
COLORADO REGISTERED
SCOTT A. HOGUE
30877
11-17-2020
PROFESSIONAL ENGINEER

PROJ MGR: RJM
PROJ ASSOC: BRB
DRAWN BY: ETG
DATE: 12/2015

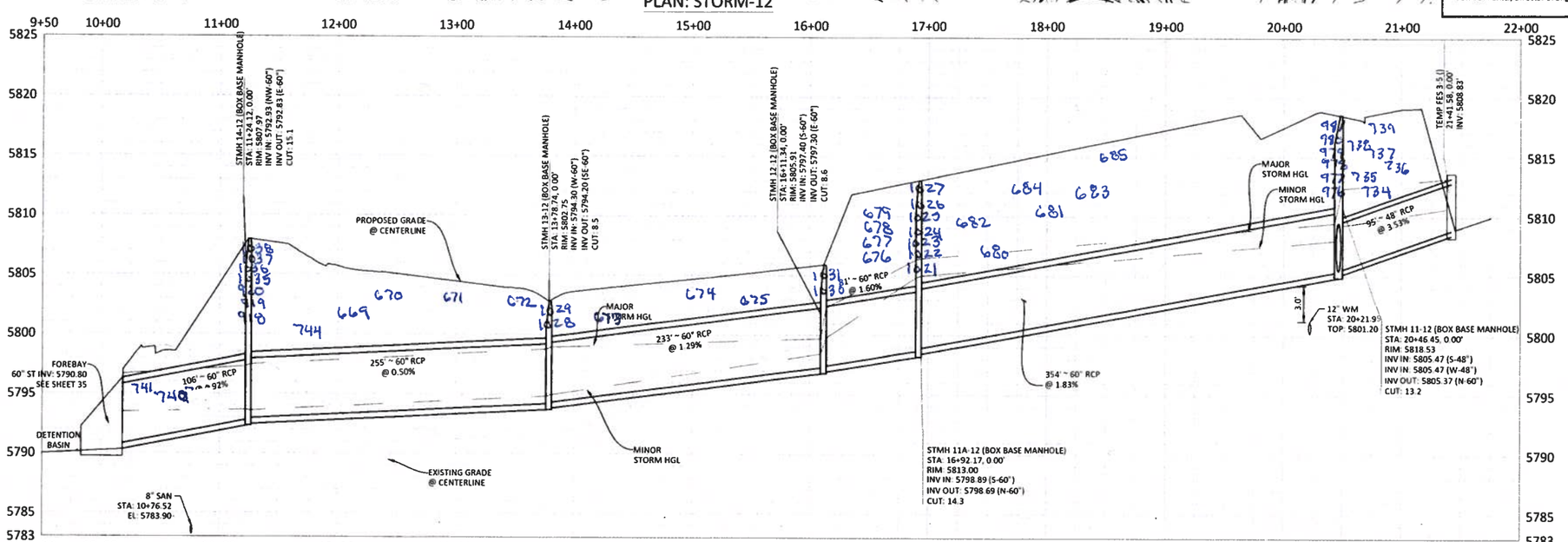
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21 OF 50
CLCPKC3

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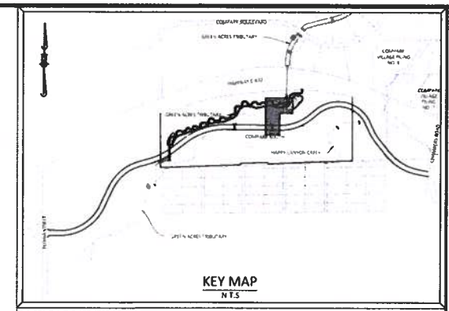
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PLAN: STORM-12



PROFILE: STORM-12



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N

0 25 50 100

SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

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G	06/01/20	RESPONDED TO TOWN COMMENTS	MAM
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E	12/17/16	5TH SUBMITTAL	EG
D	11/1/16	4TH SUBMITTAL	EG
C	6/24/16	3RD SUBMITTAL	EG
B	4/1/16	2ND SUBMITTAL	EG
A	1/2/015	1ST SUBMITTAL	EG

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COMPARK VILLAGE SOUTH, FILING NO. 1 - BELFORD AVENUE
TOWN OF PARKER, COLORADO
STORM PLAN & PROFILE

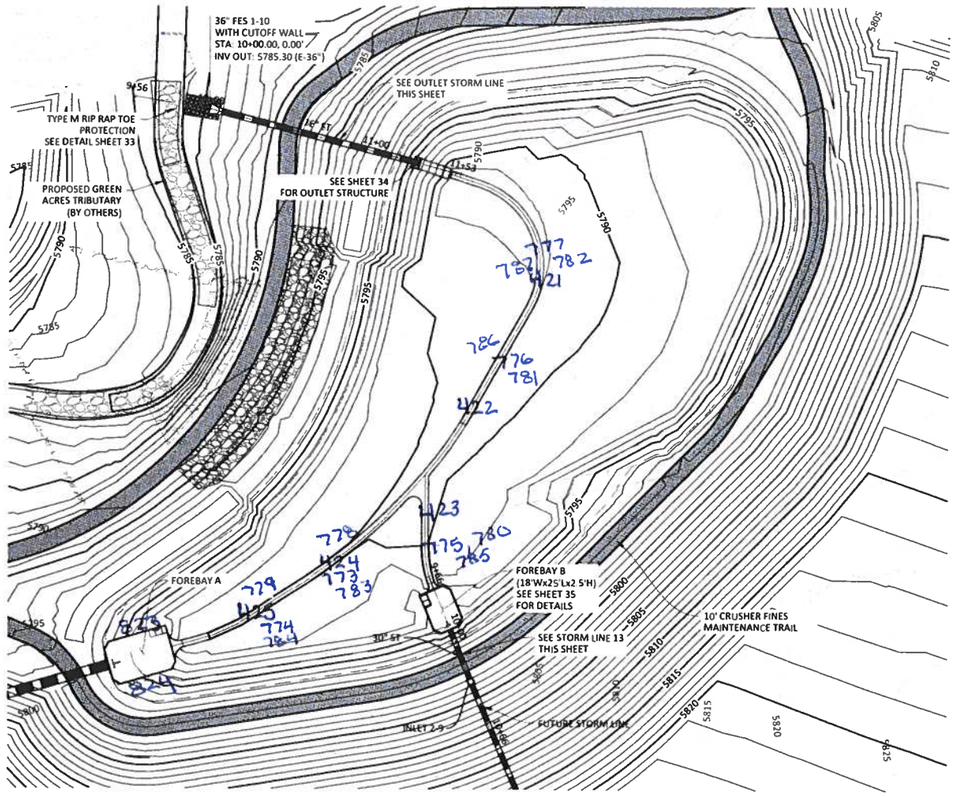
COLORADO REGISTERED PROFESSIONAL ENGINEER
KENT M. MYERS
30877
11-17-2020

PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY: ETG
DATE: 12/2015

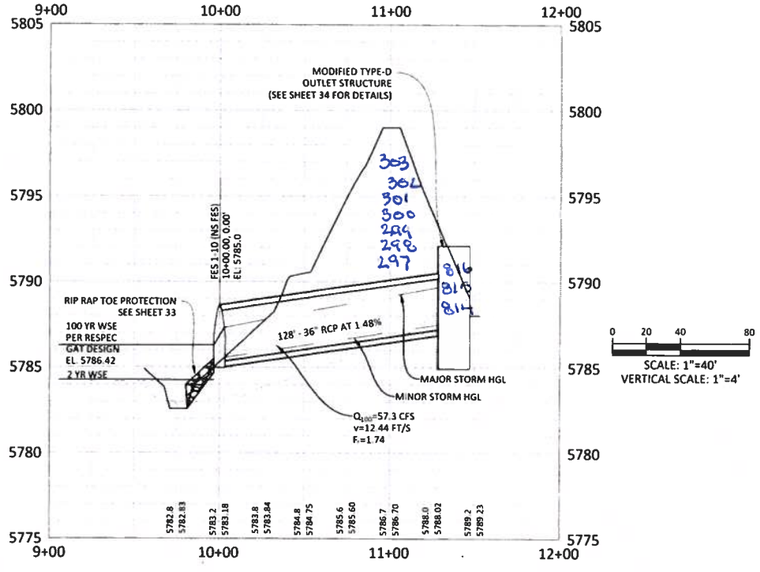
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22 OF 50
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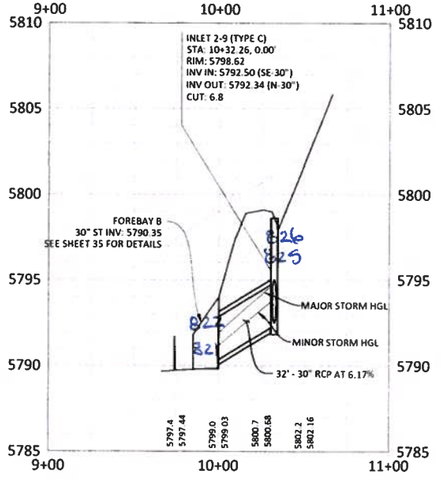
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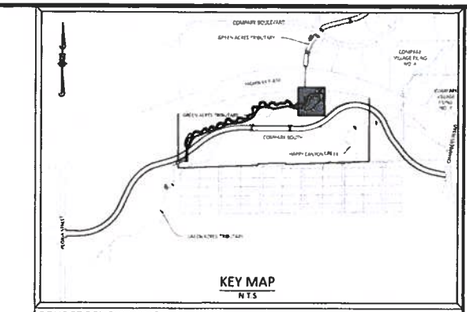
PLAN: STORM 13 & POND OUTLET



PROFILE: STORM-POND OUTLET

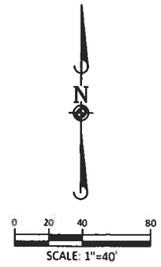


PROFILE: STORM-13



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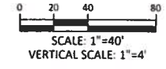
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Town of Parker, Director of Engineering — 12/17/2020 Date

NOTE:

1. PRIOR TO FINAL TOPSOILING, SEEDING AND MULCHING, CONTRACTOR SHALL OBTAIN FINAL AS-BUILT VOLUME CHECK AND CERTIFICATION FROM THE ENGINEER. FAILURE TO DO SO WILL REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE TOPSOIL MATERIALS AT HIS/HER EXPENSE.
2. REFER TO GENERAL NOTES ON SHEET 2 AND DETAILS ON FOLLOWING SHEETS
3. EMBANKMENT FILL SHALL MEET THE MINIMUM REQUIREMENTS OF TOWN OF PARKER AND THE GEOTECHNICAL REPORT. SEE GENERAL NOTES ON SHEET 2.



811 Know what's below. Call before you dig.

DATE	REVISIONS	DRAWN BY
A 09/2020	APPROVED	
B 09/2020	RESPONDED TO TOWN COMMENTS	JAH
C 06/01/20	RESPONDED TO TOWN COMMENTS	JAH
D 03/02/20	UPDATE GAT & ADD OFF-LINE DET BASIN	
E 12/1/16	4TH SUBMITTAL	
D 11/1/16	4TH SUBMITTAL	
F 6/24/16	3RD SUBMITTAL	
E 4/11/16	2ND SUBMITTAL	
D 11/2015	1ST SUBMITTAL	FG

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TOWN OF PARKER, COLORADO
STORM PLAN & PROFILE

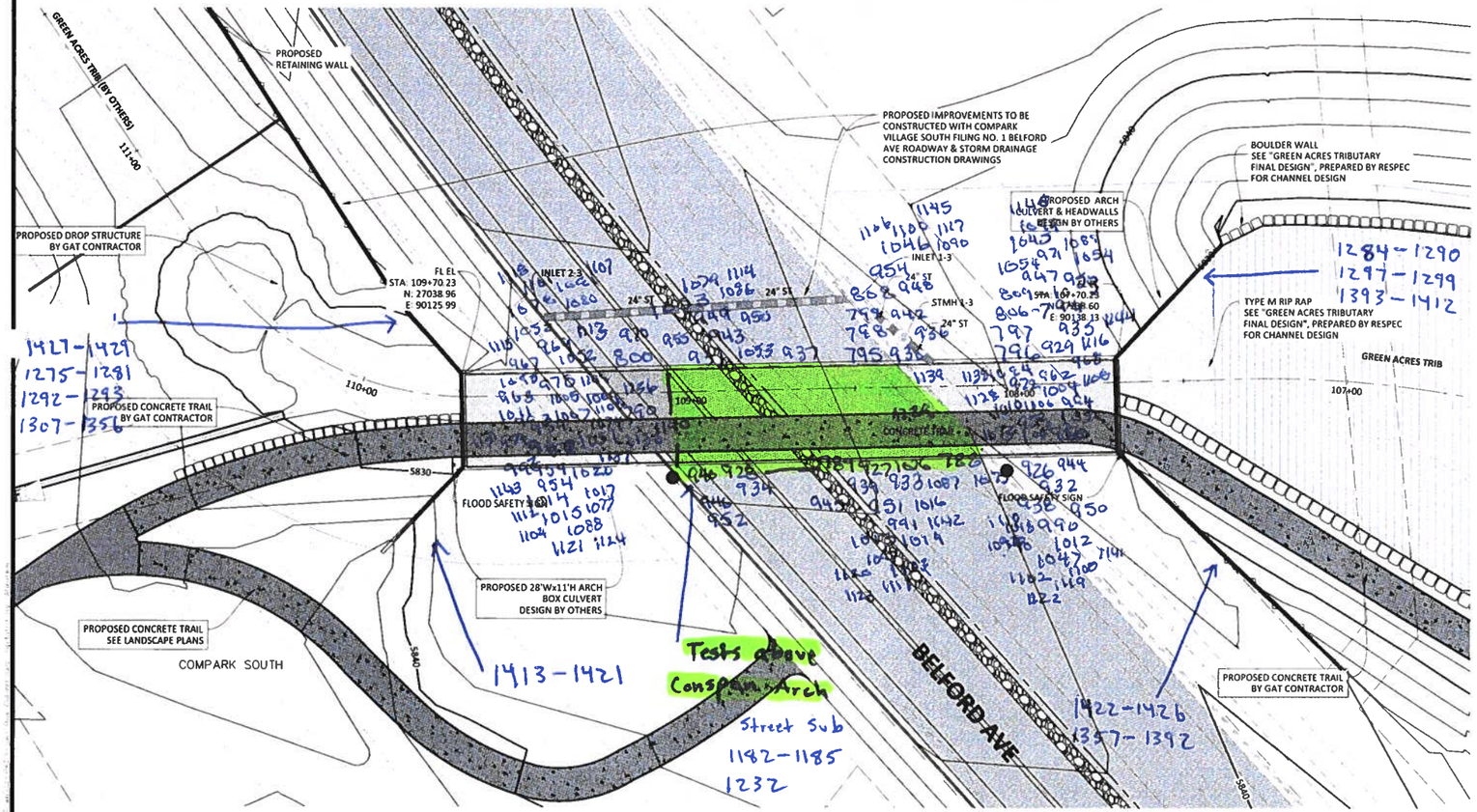
COLORADO REGISTERED PROFESSIONAL ENGINEER
MARK A. HEIDE
30877
11-17-2020

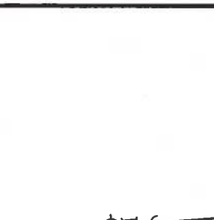
PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY: ETG
DATE: 12/2015

SHEET
23 OF 50
CLCPKC3

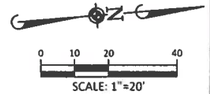
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Plotted: 10/30/2020 1:11 PM Dwg Name: #:\Clerks\Conf\conf312 filing 1 No.GAT\Conf\conf312 Ultimate Belford Ave\Work\Civil\Visual Drawings\Plan Set\Town\STORM.rvt PONDS.dwg Updated By: JTucker



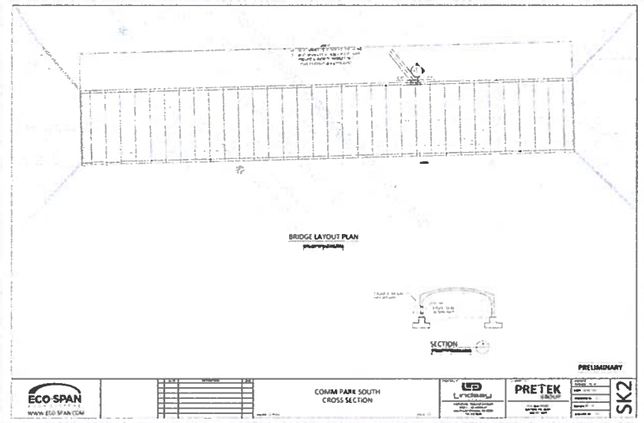


KEY MAP
N.T.S.



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



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F 12/27/16	FINAL SUBMITTAL ADD OFF-LINE DET BASIN	
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C 8/24/15	3RD SUBMITTAL	
B 4/17/2015	2ND SUBMITTAL	
A 1/7/2015	1ST SUBMITTAL	EC

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COMPARK VILLAGE SOUTH, FILING NO. 1 - BELFORD AVENUE

TOWN OF PARKER, COLORADO

GAT BOX CULVERT PLAN & DETAILS

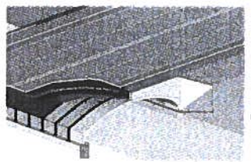
ECO-SPAN ARCH SYSTEMS

COMM PARK SOUTH BRIDGE #1

LOCATION: AURORA CO

PREPARED FOR: Mark Wilson, THK Assoc.

PROJECT ID#: 217067134



PROJECT DATA SUMMARY

ARCH UNITS	
Shape	Half Arch Series
Number of Units/Barrels	1
Span	28'-0"
Rise	11'-0"
Wedge Length	2'-0"
Nominal Wedge Height	2'-6" (Typ.)
Clear Rise	11'-0"
Effective Waterway Area	282 SF
Weight Each	11,000 lbs
Number of Pieces	14
Concrete Strength	4,000 psi

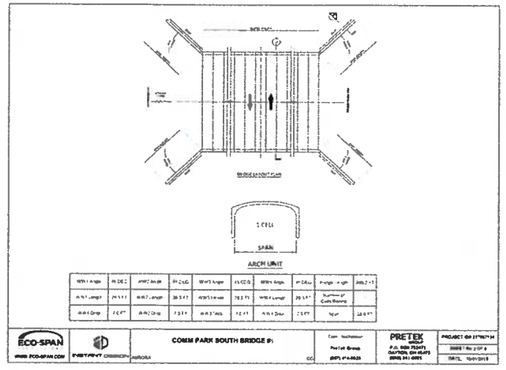
SITE LAYOUT	
Alignment	No Skew
Maximum Skew Angle	15.00
Skewed End Angle	77.00
HEADWALLS	
Left Wall or Traffic Railing	No
Minimum Headwall Ht.	2'-0"
Embankment Needed To	2'-0"
FOUNDATIONS	
Foundation Type	Spread Footing
Foundation Bottom Depth	4

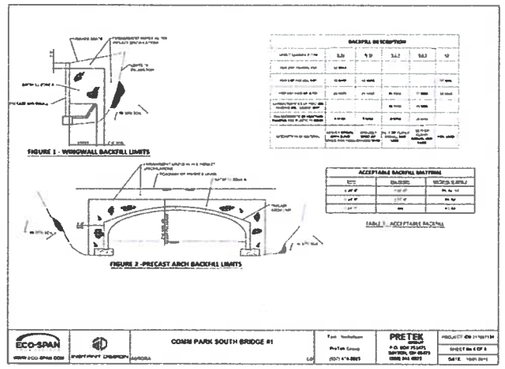
WINGWALLS	
Wall 1 Type	1" - 45.00°
Wall 1 Length	20'-5.5"
Wall 1 Height	11'-2.5"
Wall 1 Flare	7.2.1
Wall 2 Type	45.00°
Wall 2 Length	20'-5.5"
Wall 2 Height	11'-2.5"
Wall 2 Flare	7.2.1

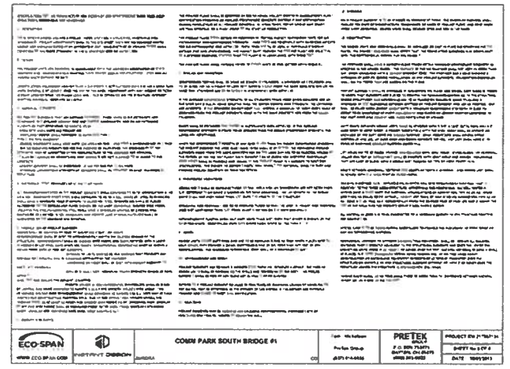
WALL 3 (Left - Flow)	45.00°
Wall 3 Length	20'-5.5"
Wall 3 Height	11'-2.5"
Wall 3 Flare	7.2.1
WALL 4 (Right - Flow)	45.00°
Wall 4 Length	20'-5.5"
Wall 4 Height	11'-2.5"
Wall 4 Flare	7.2.1

PRETEK GROUP

INSTANT DESIGN





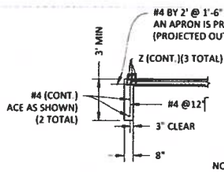


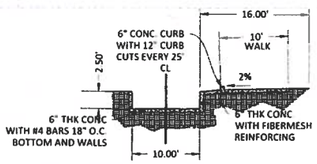
NOTE:
PRECAST ARCH CULVERT TO BE ECO-SPAN OR APPROVED EQUAL. SUPPLIER TO PROVIDE DESIGN

FOUNDATION DESIGN TO BE PROVIDED BY CONTRACTOR

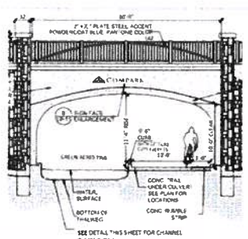
CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION

LIMIT PE CERTIFICATION TO CIVIL





NOTES:
1. CONCRETE MIX TO BE 4000 PSI MIX
2. TRANSVERSE JOINTS TO BE SAWCUT (¼" WIDE X 1-1/4" DEEP) 10-12' ON CENTER
3. EXPANSION JOINTS WITH FILLER & SEALANT TO BE PLACED EVERY 100' AND WHERE PAVEMENT ABUTS ANOTHER STRUCTURE.
4. INSTALL 3' CONC. CUTOFF WALLS AT EACH END OF THE ARCH STRUCTURE.



GAT TYPICAL CHANNEL SECTION



GAT TYPICAL CULVERT SAFETY SIGN

811 Know what's below. Call before you dig.

TOWN OF PARKER APPROVALS

The Town of Parker review constitutes general compliance with the Town's Standards and approved variances, subject to these plans being stamped, signed, and dated by the professional engineer of record. Review by the Town does not constitute approval of the plan design or accuracy and correctness of engineering calculations. Errors in the design or calculations remain the responsibility of the registered professional engineer whose stamp and signature are affixed to this document.

This review does not constitute approval of any private on-site improvements which may be shown. Construction cannot commence until all required drainage/traffic report(s), final development plan(s), special review(s), grading permit, and/or other permits are complete, approved and on file with the Town of Parker.

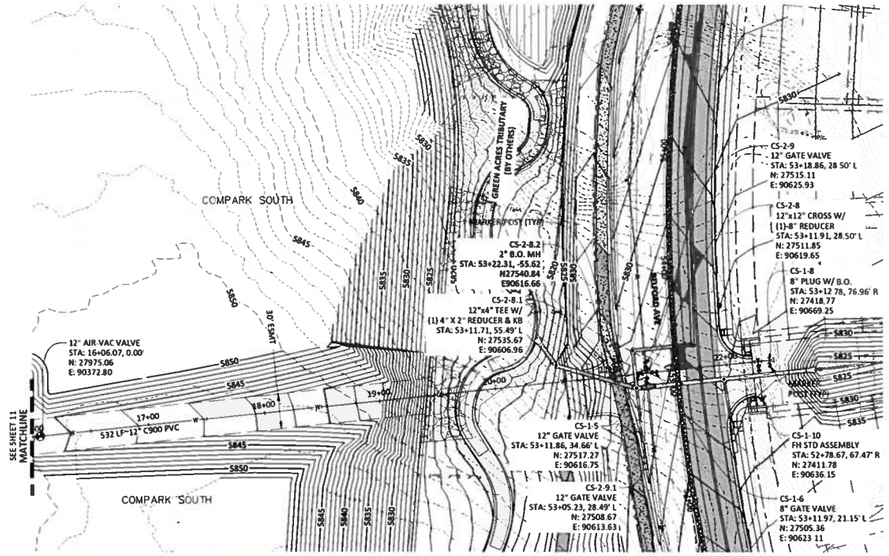
Town of Parker, Director of Engineering — Date: 12/17/2020

COLORADO REGISTERED PROFESSIONAL ENGINEER — JEFFREY R. MARX — 30877 — 11-17-2020

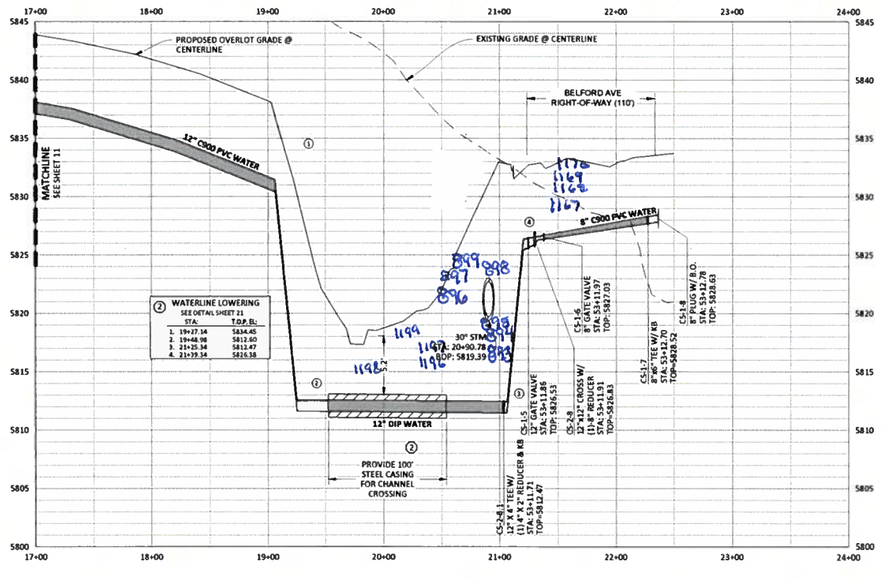
PROJ. MGR.:	R.M
PROJ. ASSOC.:	BRB
DRAWN BY:	ETC
DATE:	12/2015

SHEET 27 OF 50

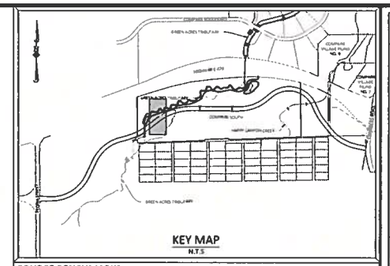
CLCPKC3



PLAN: 12" WATERLINE



PROFILE: 12" WATERLINE



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1 115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



0 25 50 100
SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

811
Know what's below.
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NOTE: SET ALL MANHOLE RIMS NOT IN PAVED AREAS 6" ABOVE FINISHED GRADE AND PROVIDE CARSONITE MARKER POST AT 5' OFFSET W/ CONCRETE COLLAR.

ALL WATER LINES WITHIN THE COMPARK SOUTH DEVELOPMENT WILL BE REQUIRED TO BE C900 DR14 PIPE MATERIAL WITH A MINIMUM 4.5' OF COVER.

WATER MAIN SHALL BE CONSTRUCTED USING MANUFACTURER SPECIFICATION. EBAA IRON SERIES 3800 MEGACOUPLING HIGH DEFLECTION COUPLINGS SHALL BE UTILIZED FOR ALL DEFLECTIONS AT JOINTS.

NO.	DATE	REVISION	BY
6	11/20/2020	UPDATED PER STORMWATER REVISIONS	JAM
5	3/4/2020	UPDATED PER STORMWATER REVISIONS	SARAH
4	1/7/2019	REVISED PER STORMWATER REVISIONS	BAK
3	8/7/2017	REVISED PER EXISTING GRADE CHANGES	BAK
2	10/2016	REVISED PER TOWN/DWR & 9/21 LETTER	BAK
1	9/2016	REVISED PER TOWN/DWR & 9/2/16 LETTER	BAK
A	11/2015	1ST SUBMITTAL	ETG

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COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
WATER PLAN & PROFILE

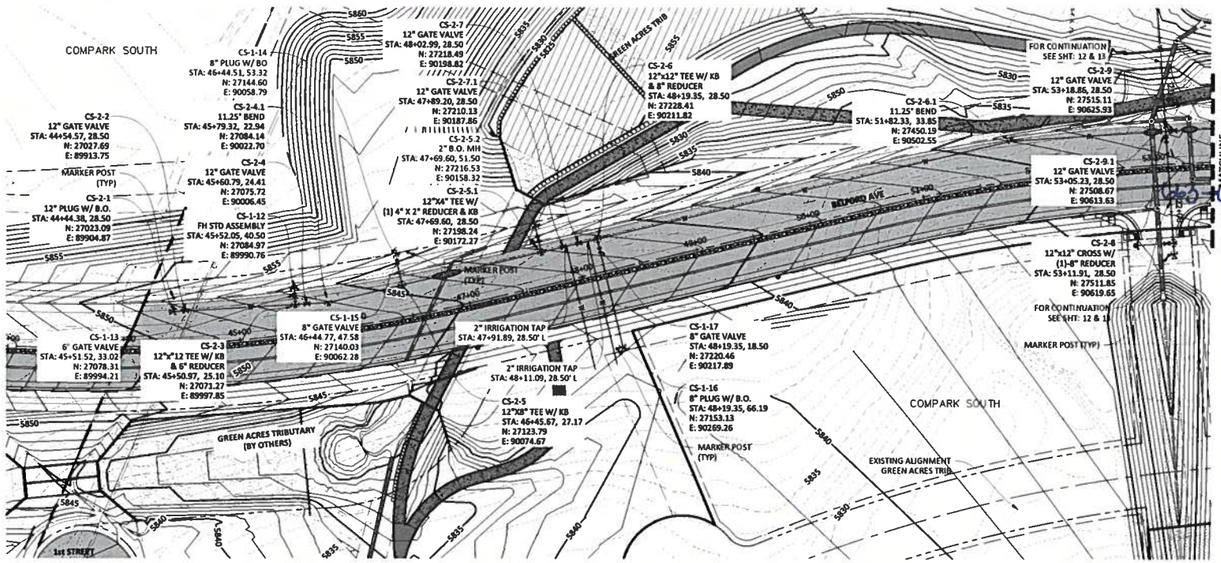
COLORADO REGISTERED PROFESSIONAL ENGINEER 30877 11-20-2020

PROJ. MGR.: JLM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 09/2020

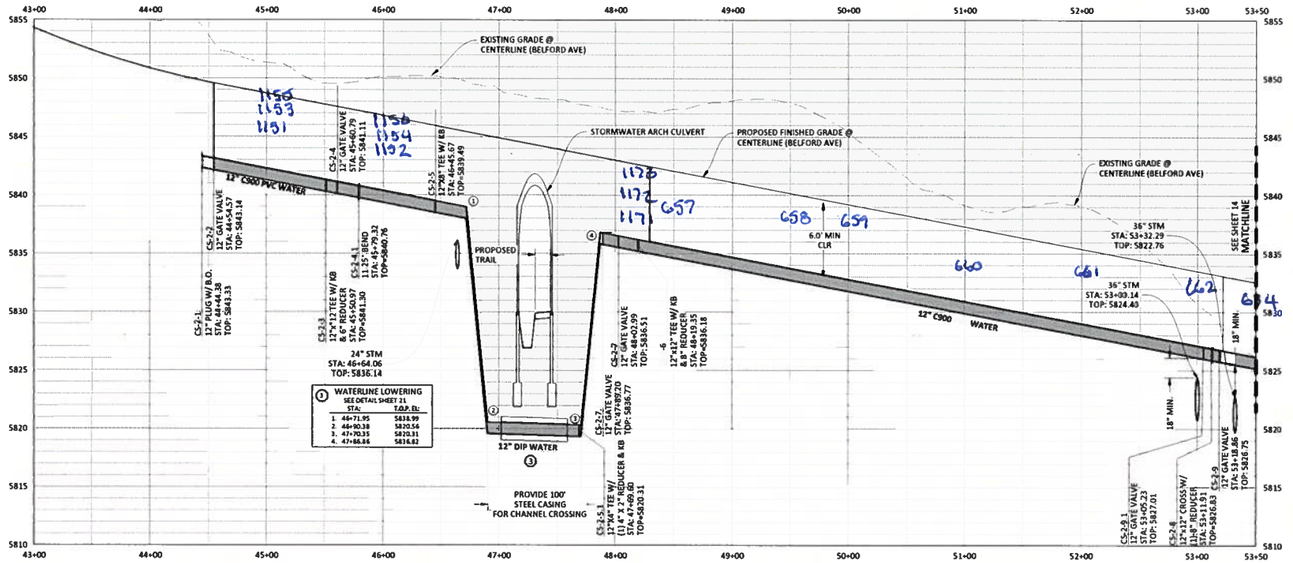
SHEET
12 OF 23
CLCPKC3

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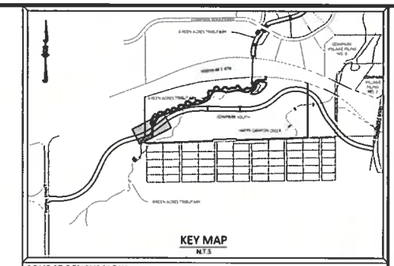
Plotted: 11/20/2020 3:05 AM Dwg Name: J:\Civil\PKC\Construction\2.4 Eng\1 No GAT\Water and Sewer\Profile\PKC3PKC3 Profile-Wtr.MAP-1.dwg Updated By: steenflorence



PLAN: 12" WATERLINE



PROFILE: 12" WATERLINE



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NO.	DATE	REVISION	DESIGNER
8.	01/30/2020	UPDATED PER STORMWATER REVISIONS	JAH
7.	11/4/2019	UPDATED PER STORMWATER REVISIONS	KMM
6.	09/2019	UPDATED PER STORMWATER REVISIONS - LOCATE	KMM
5.	03/2019	REVISED FOR LIGHTING DESIGN, UPDATE LEADS	EAK
4.	01/2019	REVISED PER STORMWATER REVISIONS	EAK
3.	06/2018	REVISED PER STORMWATER REVISIONS	BRR
2.	11/2015	1ST SUBMITTAL	FG

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TOWN OF PARKER, COLORADO
WATER PLAN & PROFILE

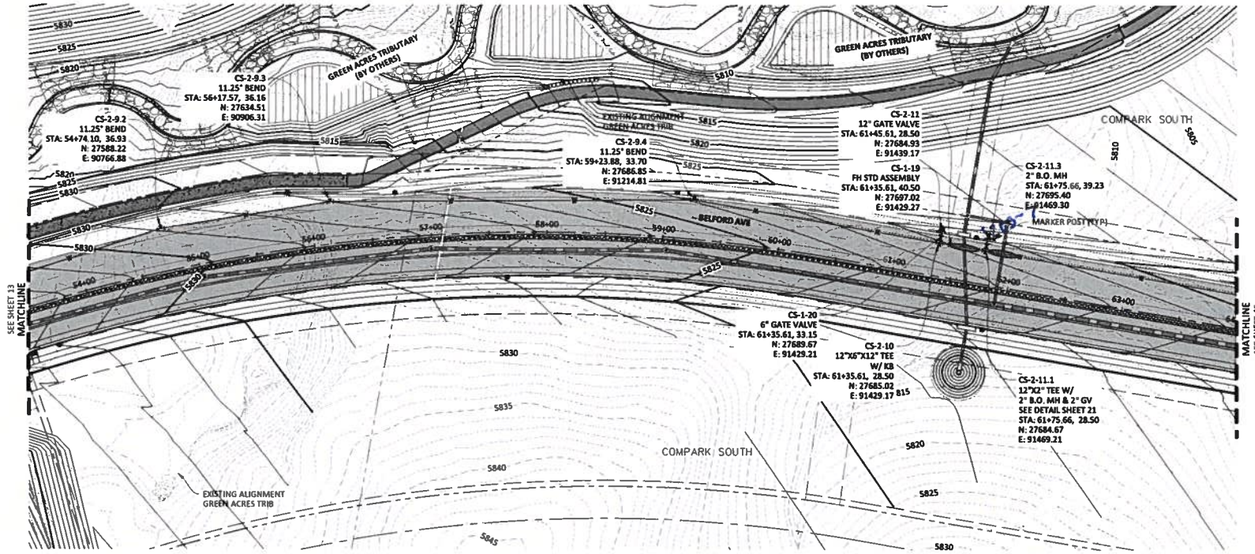
COLORADO REGISTERED PROFESSIONAL ENGINEER
RYAN M. MOON
38879
11-20-2020

PROJ. MGR.: RJM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

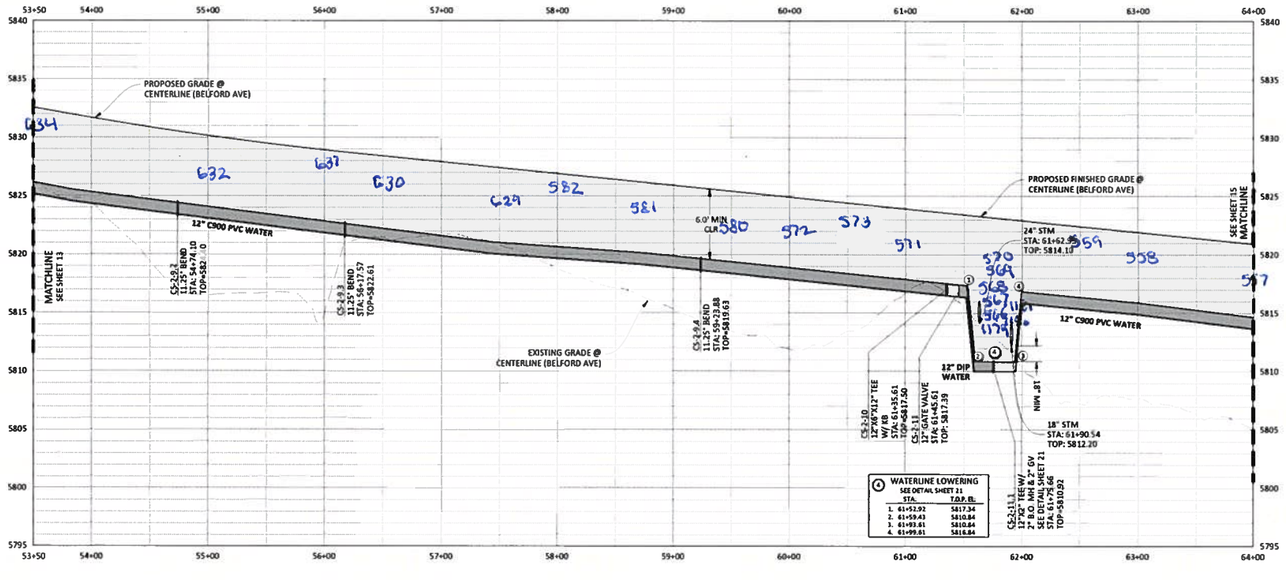
SHEET
13 OF 23
CLCPRC3

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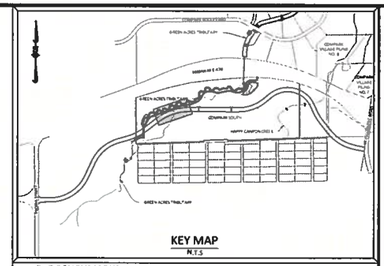
Plotted: 11/20/2020 8:59 AM Dora Hamer p:\Data\1\common\12-Bing 1 mp get\water water and sewer\Water\CLCPRC3 -Water Plan FAB 2.dwg Updated By: kMacClure



PLAN: 12" WATERLINE



PROFILE: 12" WATERLINE



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.11S010
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REMARKS	BY
	JAH
	KMAA
	KMA
	BAE
	BAE
	KG

NO.	DATE	REVISIONS
6	11/20/2020	UPDATED PER STORMWATER REVISIONS
5	5/4/2020	UPDATED PER STORMWATER REVISIONS
4	04/2020	REVISED PER STORMWATER REVISIONS & UPDATE
3	03/2020	REVISED FOR EXISTING SLEEVE SHOWN EARD
2	06/2019	REVISED PER STORMSEWER 8/27/19 LETTER
1	04/2019	REVISED PER STORMSEWER 3/27/19 SUBMITTAL
A	11/2018	1ST SUBMITTAL

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Civil Engineers ● Surveyors ● Water Resource Engineers ● Construction Management

COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
WATER PLAN & PROFILE

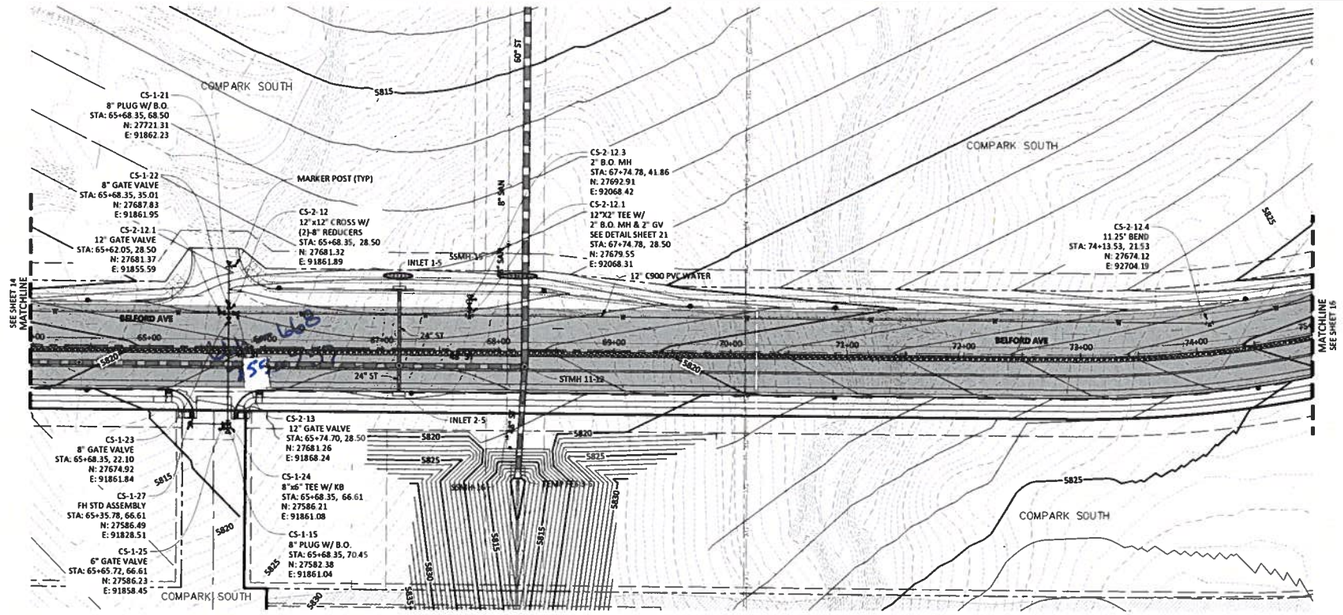
COLORADO REGISTERED 38877 11-20-2020 PROFESSIONAL ENGINEER

PROJ. MGR.: JDM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

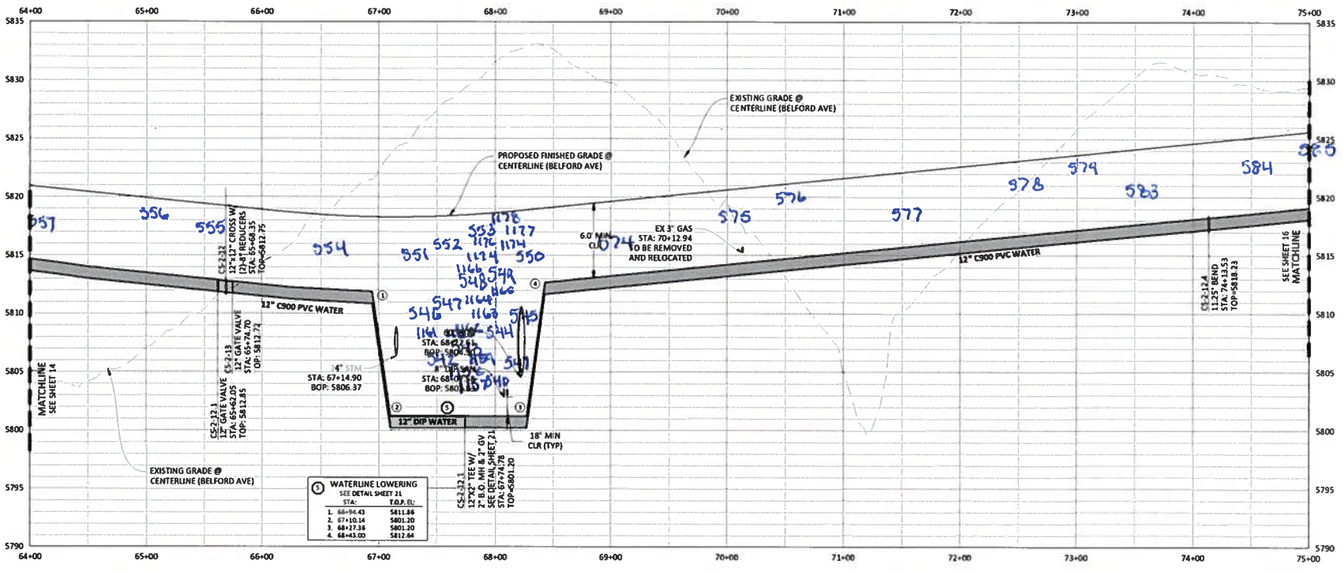
SHEET
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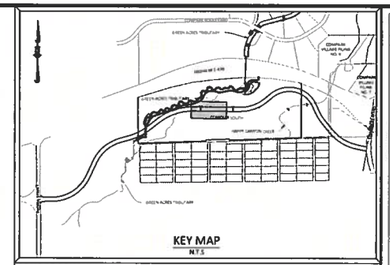
Plotted: 11/20/2020 9:09 AM Dwg Name: p:\Clients\Commerch\1-49th Ln pal\water and sewer\Offline\CLCPKC3-Offline-Wat P&P-2.dwg Updated By: akitchens



PLAN: 12" WATERLINE



PROFILE: 12" WATERLINE



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N

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DATE	REVISIONS	DESIGNED BY
11/20/2020	UPDATED PER STORMWATER REVISIONS	AM
3/4/2020	UPDATED PER STORMWATER REVISIONS	KAAM
1/2/2019	REVISED STA'S, COMM, UNDER CA'S/RELOCATE	SEK
11/20/18	REVISED PER STORMWATER COMMENTS	KAAM
8/2/2018	REVISED PER STORMDATE 7/27/18 LETTER	KAA
6/1/2018	REVISED PER STORMDATE 5/17/18 LETTER	KAA
11/2015	1ST SUBMITTAL	ETG

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COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
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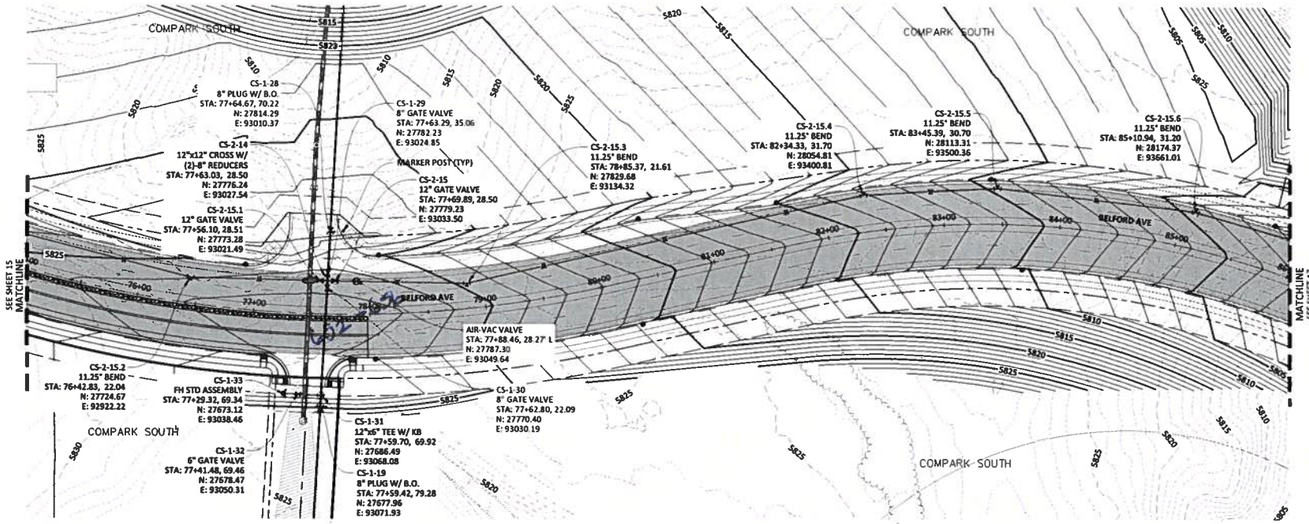
COLORADO REGISTERED PROFESSIONAL ENGINEER
30877
11-20-2020

PROJ. MGR.: RJM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

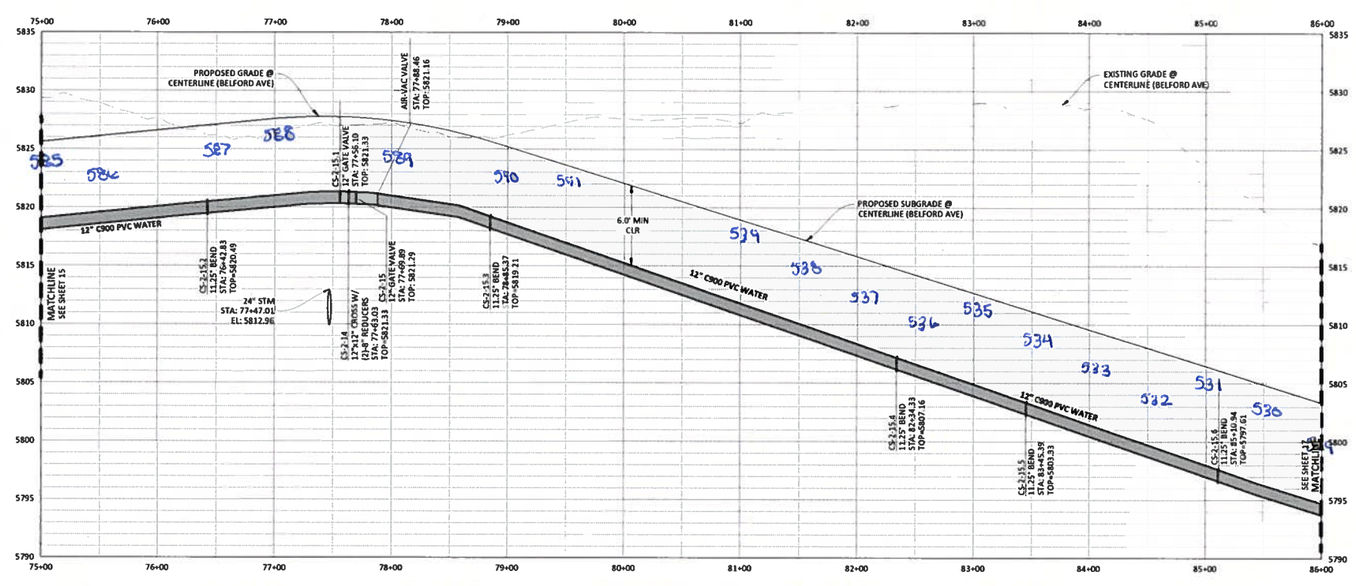
SHEET
15 OF 23
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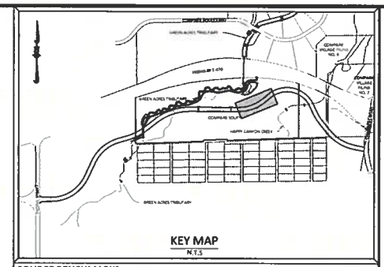
Plotted: 11/20/2020 9:01 AM Drwg Name: p:\Client-1\comcon\012-Bldg 1 no gas\master water and sewer\Utility\CLCPKC1-Offsite-Wtr1 #&2-2.dwg Updated By: sdeshaw



PLAN: 12" WATERLINE



PROFILE: 12" WATERLINE



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DATE	REVISIONS	DRAWN BY
11/5/2020	UPDATED PER STORMWATER REVISIONS	JAH
3/4/2020	UPDATED PER STORMWATER REVISIONS	KMM
02/2020	REVISED PER STORMWATER REVISIONS & UPDATE	JAH
01/2020	REVISED PER TOWN LETTER DATED 1/20	BAK
10/2019	REVISED PER STORMWATER 9/27/19 LETTER	BAK
09/2019	REVISED PER TOWN LETTER DATED 9/5/19	BAK
11/2015	1ST SUBMITTAL	EG

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COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
WATER PLAN & PROFILE

COLORADO REGISTERED PROFESSIONAL ENGINEER
30877
11-20-2020

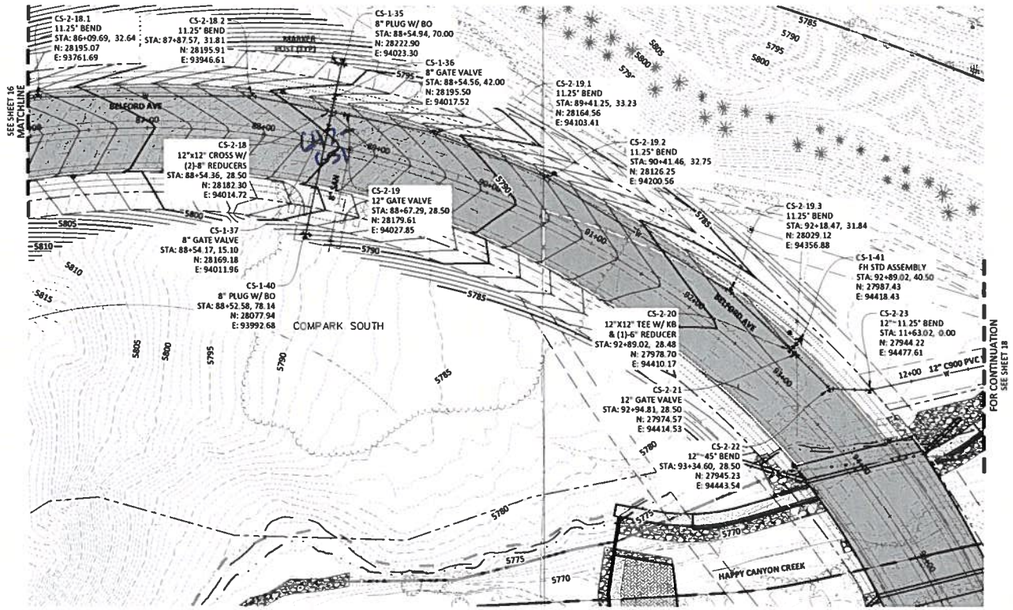
PROJ. MGR.: RJM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

SHEET
16 OF 23

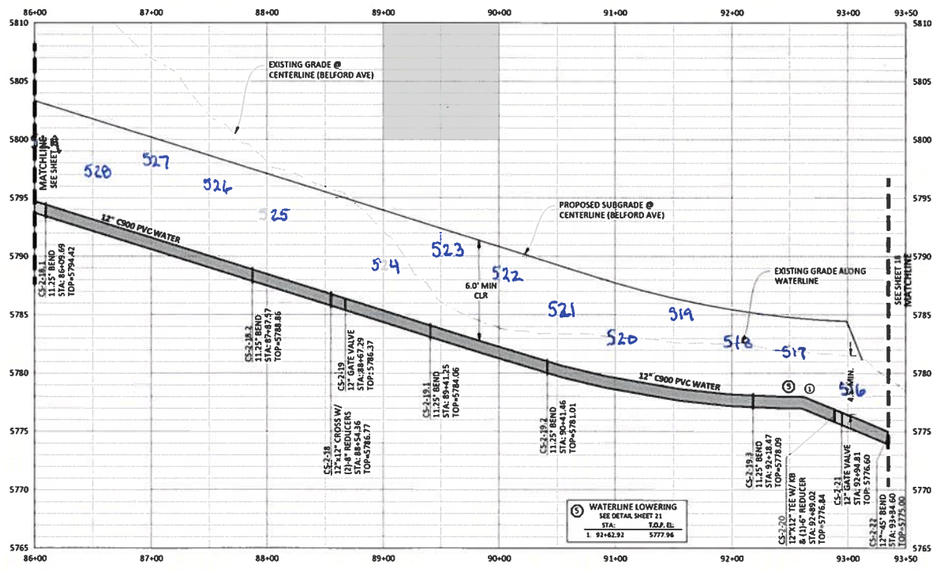
CLCPKC3

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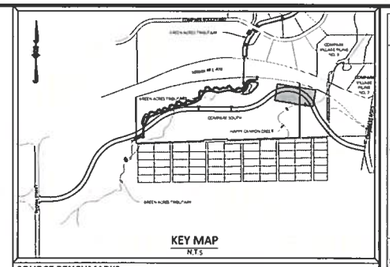
Plotted: 11/5/2020 9:03 AM Dwg Name: p:\Projects\Parmenos\12-Filing 1 no pit\Master water and sewer\Offline\CLCPKC3-Offline-Wtr-PRO-1.dwg Updated By: JAbeKuhn



PLAN: 12" WATERLINE



PROFILE: 12" WATERLINE



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DRAWN BY		
DATE	REVISION	
12/20/2020	UPDATED PER STORMWATER REVISIONS	JAH
7/14/2020	UPDATED PER STORMWATER REVISIONS	KAMA
3/27/2017	REVISED PER STORMWATER REVISIONS	RAK
2/27/17	REVISED FOR EXISTING SEWER LINE ADJACENT	RAK
8/9/2016	REVISED PER STORMSEWER 8/2/16 LETTER	RAK
7/29/2016	REVISED PER STORMSEWER 7/27/16 LETTER	RAK
11/2016	1ST SUBMITTAL	GS

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COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
WATER PLAN & PROFILE

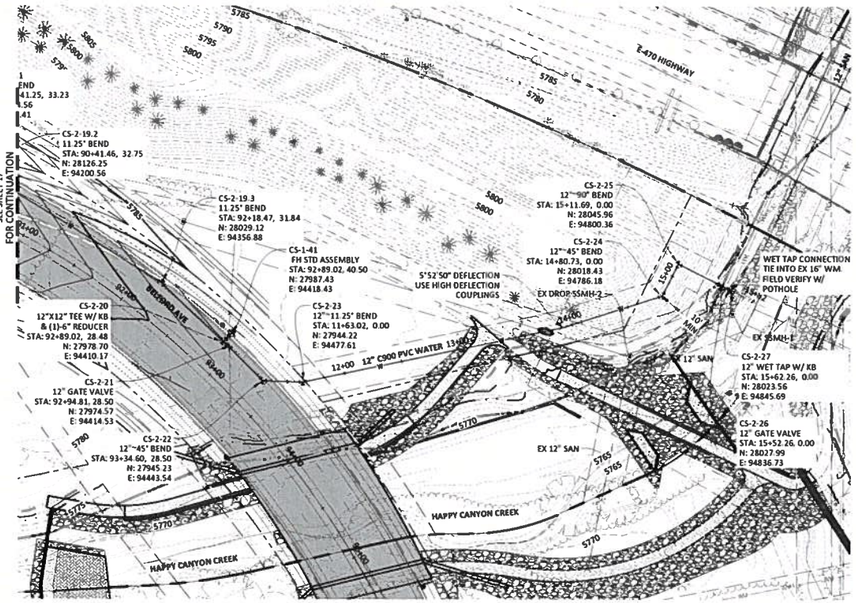
COLORADO REGISTERED PROFESSIONAL ENGINEER 30077 11-20-2020

PROJ. MGR.: KJM
PROJ. ASSOC.: ASD
DRAWN BY: ETG
DATE: 03/2020

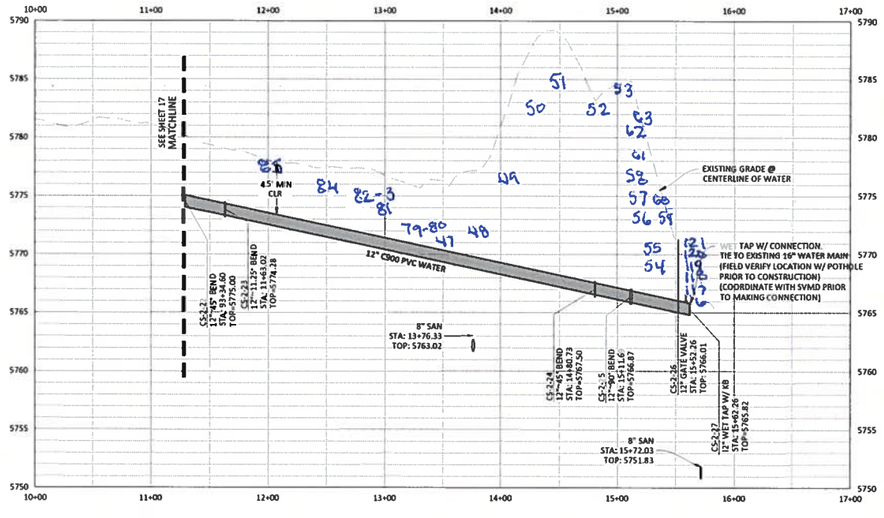
SHEET 17 OF 23
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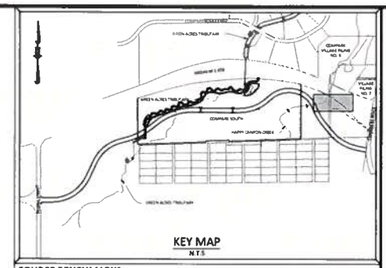
Plotted: 11/20/2020 10:55 AM - Dwg Name: J:\Projects\Wimmera\012-Filing 1 no gb\Civil\water, sewer and sewer\Utility\CLCPKC1-Offsite-Wat F&P-2.dwg - Updated By: MMcGuire



PLAN: 12" WATERLINE



PROFILE: 12" WATERLINE



SOURCE BENCHMARKS:

DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



Know what's below. Call before you dig.

NOTE: SET ALL MANHOLE RIMS NOT IN PAVED AREAS 6" ABOVE FINISHED GRADE AND PROVIDE CARSONITE MARKER POST AT 5' OFFSET W/ CONCRETE COLLAR.

ALL WATER LINES WITHIN THE COMPARK SOUTH DEVELOPMENT WILL BE REQUIRED TO BE C900 DR14 PIPE MATERIAL WITH A MINIMUM 4.5' OF COVER.

WATER MAIN SHALL BE CONSTRUCTED USING MANUFACTURER SPECIFICATION. EBAA IRON SERIES 3800 MEGACOUPLING HIGH DEFLECTION COUPLINGS SHALL BE UTILIZED FOR ALL DEFLECTIONS AT JOINTS.

NO.	DATE	REVISION	DRAWN BY
6	12/10/2020	UPDATED PER STORMWATER REVISIONS	JAH
5	3/4/2020	UPDATED PER STORMWATER REVISIONS	KMM
4	12/20/19	REVISED PER STORMWATER REVISIONS & LODGE	KM
3	03/2019	REVISED FOR EXISTING SEWER LAYOUT ADD	KM
2	10/2018	REVISED PER STORMDRAIN 9/20/18 LETTER	KM
1	08/2018	REVISED PER COMMENTS 8/2018 LETTER	KM
A	11/2015	1ST SUBMITTAL	EG

Manhard CONSULTING
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Civil Engineering • Surveying & Geomatics • Land Development
Water Resource Management • Construction Management

COMPARK VILLAGE SOUTH, FILING NO. 1
TOWN OF PARKER, COLORADO
WATER PLAN & PROFILE

COLORADO REGISTERED PROFESSIONAL ENGINEER 30877 11-20-2020

PROJ. MGR.:	KJM
PROJ. ASSOC.:	ASD
DRAWN BY:	ETG
DATE:	03/2020

SHEET
18 OF 23
CLCPKC3

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Plotted: 12/10/2020 10:50 AM Dwg Name: P:\Projects\Monmouth\13 Filing 1\Civil\Sheet water and sewer\Dwgs\CLCPKC3_Offsite_WTR_P&P.dwg Updated By: MMcGinn