SITE DEVELOPMENT CONSTRUCTION PLANS
PARKER POINTE

LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
A PART OF SECTION 3, TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

GENERAL NOTES:

1. TOPOGRAPHIC MAPPING AS OF 03/05/14 PREPARED BY ENGINEERING SERVICE COMPANY, INC. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN HE SHALL, AT HIS EXPENSE, HAVE NEW MAPPING PREPARED BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR ACCEPTANCE AND APPROVAL.

2. CONTRACTOR SHALL REFER TO THE GRADING, EROSION AND SEDIMENT CONTROL (GESC) PLAN FOR ADDITIONAL REQUIREMENTS. NO WORK SHALL OCCUR UNTIL THE BMPs DEPICTED ON THE GESC HAVE BEEN INSTALLED AND ARE APPROVED BY THE CITY. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

3. EXISTING CONTOURS ARE SHOWN AT 1-FOOT INTERVALS; PROPOSED OVERLOT CONTOURS ARE SHOWN AT 1-FOOT INTERVALS.

4. ALL EARTHWORK, GRADING, OVERLOT GRADING, BACKFILLING, FILLING, EXCAVATION, COMPACTION, PAVEMENT, AND FLATWORK SHALL BE IN CONFORMANCE WITH THE GEOTECHNICAL REPORT PREPARED BY XXXXXXXX INC. TITLED XXXXX, DATED XXXX. THE CONTRACTOR IS REQUIRED TO HAVE A SIGNED AND SEALED COPY OF THE REPORT AT THE SITE AT ALL TIMES. DURING CONSTRUCTION, IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED, THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED BY THE CONTRACTOR FOR RECOMMENDATIONS.

5. THE CONTRACTOR IS RESPONSIBLE FOR:

   a. VERIFYING ALL UTILITIES, WHETHER SHOWN OR NOT SHOWN, AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION. ALL UTILITIES TO REMAIN (MANHOLES, VALVE COVERS, CLEANOUTS, VAULTS, BOXES, ETC.) SHALL BE PROTECTED FROM DAMAGE AND ADJUSTED TO FINAL GRADE.

   b. PREPARING ANY TRAFFIC CONTROL PLANS, AS MAY BE REQUIRED TO PERFORM THE WORK, AND PROVIDING ALL NECESSARY TRAFFIC CONTROL (SIGNS, BARRICADES,FLAGMEN, LIGHTS, ETC) IN ACCORDANCE WITH THE MUTCD, CURRENT EDITION, AS REQUIRED FOR THE WORK. THE PLAN FOR TRAFFIC CONTROL SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO COMMENCING ANY WORK IN THE RIGHTS-OF-WAY.

   c. OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED TO PERFORM THE WORK AND TO OBTAIN A COPY OF ALL APPLICABLE CODES, LICENSES, SPECIFICATIONS, AND STANDARDS NECESSARY TO PERFORM THE WORK, AND BE FAMILIAR WITH THEIR CONTENTS PRIOR TO COMMENCING ANY WORK.

   d. KEEPING ONE COPY OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR TO VERIFY WITH PROJECT ENGINEER THE LATEST REVISION DATE OF THE APPROVED CONSTRUCTION PLANS.

   e. COORDINATING PRIOR TO CONSTRUCTION WITH THE GEOTECHNICAL ENGINEER, THE CITY, AND UTILITY AND STORMWATER DISTRICT INSPECTORS TO IDENTIFY PROJECT INSPECTION AND TESTING REQUIREMENTS.

   f. KEEPING TRACK OF ALL APPROVED DEVIATIONS FROM THE PLANS AND PROVIDING THE PROJECT ENGINEER WITH AS-BUILT DRAWINGS OF ALL IMPROVEMENTS REQUIRED FOR THE WORK.

   g. COMPLYING WITH CITY GENERAL REQUIREMENTS, STANDARDS, AND SPECIFICATIONS.

   h. PROVIDING AS-BUILT DRAWINGS OF CONSTRUCTED UTILITIES UPON COMPLETION OF THE WORK.

TOWN OF PARKER

PUBLIC WORKS
20120 E. MAINSTREET
PARKER, CO 80138
(303) 841-2332

GAS PROVIDER

XCEL ENERGY
550 15TH STREET, SUITE 700
DENVER, CO 80202
1-800-628-2121

WATER/SEWER PROVIDER

PARKER WATER AND SANITATION DISTRICT
18100 WOODMAN DR, PARKER, CO 80134
PARKER, CO 80134
(303) 841-4627
DRAYTON SANDERSON

ELECTRIC PROVIDER

INTERMOUNTAIN RURAL ELECTRIC ASSOCIATION
5496 NORTH U.S. HIGHWAY 85
SEDALIA, CO 80135
(303) 688-3100

FIRE PROTECTION

SOUTH METRO FIRE AND RESCUE
9195 EAST MINERAL AVENUE
CENTENNIAL, CO 80112
(720) 989-2244
CONTACT: RANDY CAPRA

CIVIL ENGINEER

PERCEPTION DESIGN GROUP, INC.
6901 S. PIERCE ST., SUITE #315
LITTLETON, CO 80128
(303) 232-8088
CONTACT: JERRY DAVIDSON

DEVELOPER

PARKER & STROH, LLC
975 LINCOLN STREET, SUITE 204
DENVER, CO 80203
(303) 699-3368
CONTACT: DAN YACOVETTA

ARCHITECT

IRELAND DEAN
425 WILCOX ST, STE 120
CASTLE ROCK, CO 80104
(720) 878-6534
CONTACT: SHANNIN ALBERS

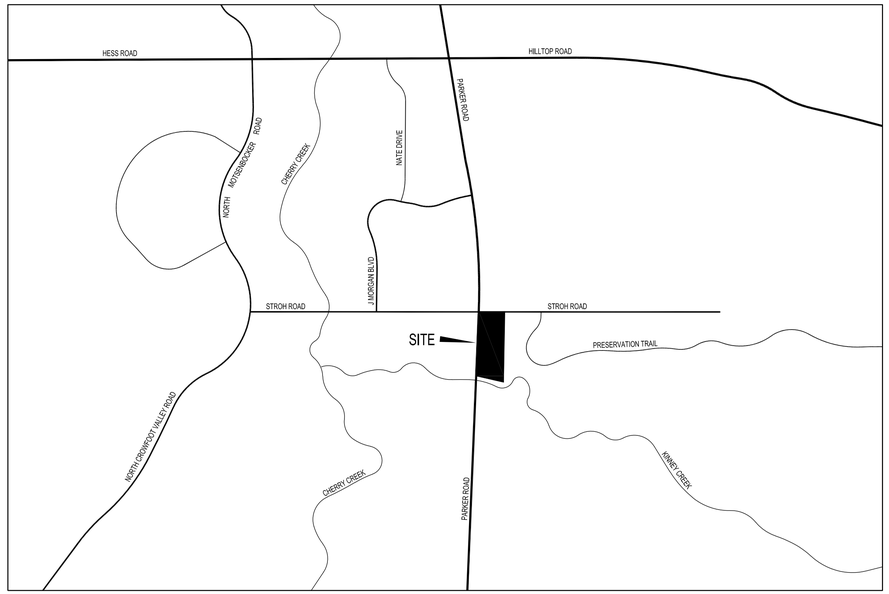
SURVEYOR

ENGINEERING SERVICE COMPANY
1300 SOUTH POTOMAC STREET, SUITE 126
AURORA, CO 80012
(303) 337-1393
CONTACT: CHIP BECKSTROM

CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

THE TYPE, SIZE, LOCATION, AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ON THE SITE, AND OFFSITE IN WORK AREAS. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO DATE OF CONSTRUCTION. FOR INFORMATION CONTACT: UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) – 1- 800-922-1987. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.



VICINITY MAP

SCALE: 1" = 500'

N

LEGEND

PROPERTY LINE	
PROPOSED HANDICAP PARKING STALL	
10	PROPOSED PARKING COUNT PER ROW
LS	PROPOSED LANDSCAPED AREA
	PROPOSED SIDEWALK
	PROPOSED HANDICAP RAMP
	PROPOSED SITE SIGNAGE
	PROPOSED HEAVY-DUTY CONCRETE PAVEMENT
	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
	EXISTING CURB AND GUTTER
	PROPOSED CURB AND GUTTER WITH SPILL PAN
	PROPOSED CURB AND GUTTER WITH CATCH PAN
	SAWCUT LINE
6260	EXISTING CONTOUR
59	PROPOSED CONTOUR
BW	FINISHED GRADE AT BOTTOM OF WALL
TW	TOP OF WALL
59.40	PROPOSED SPOT ELEVATION
59.40	EXISTING SPOT ELEVATION
FL	FLOWLINE ELEVATION
TC	TOP OF CURB ELEVATION
SW	SIDEWALK ELEVATION
HP	HIGH POINT ELEVATION
LP	LOW POINT ELEVATION
E/T/G/FO	EXISTING ELECTRIC/TELEPHONE/GAS/FIBER LINE
ST 18"RCP	EXISTING STORM SEWER WITH MANHOLE
S 8"SAN	EXISTING SANITARY SEWER WITH MANHOLE
6"WTR	EXISTING WATERLINE WITH HYDRANT
18"STM	PROPOSED STORM SEWER W/ MANHOLE AND INLET
4"SAN	PROPOSED SANITARY SEWER W/ MANHOLE AND CLEANOUT
6"WTR	PROPOSED WATERLINE AND HYDRANT
1"WTR	PROPOSED WATER SERVICE LINE
	EASEMENT
T	TRANSFORMER

LEGAL DESCRIPTION

A TRACT OF LAND LOCATED IN SECTION 3, TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE 6TH P.M., DOUGLAS COUNTY, COLORADO, DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHEAST CORNER OF SAID SECTION 3; THENCE RUNNING WEST, 486 FEET; THENCE SOUTH 2°20' WEST, 1330 FEET; THENCE SOUTH 78°30' EAST, 535 FEET; THENCE NORTH, 1444 FEET TO THE POINT OF BEGINNING,
EXCEPT THAT PORTION THEREOF LYING WITHIN EAST STROH ROAD AND
EXCEPT THAT PORTION THEREOF TAKEN BY THE DEPARTMENT OF TRANSPORTATION, STATE OF COLORADO BY RULE AND ORDER, CASE NO. 90CV484 RECORDED MAY 11, 1993 IN BOOK 1124 AT PAGE 853,
COUNTY OF DOUGLAS,
STATE OF COLORADO.

BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83)
ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NE 1/4 OF SECTION 3, TOWNSHIP 7 SOUTH, RANGE 66 WEST, OF THE 6TH PRINCIPAL MERIDIAN BEARING S89°59'29"W AND BOUNDED BY THE MONUMENTS SHOWN HEREON.

TOWN OF PARKER PLAN SET

C0.00	COVER SHEET
C0.01	TOWN GENERAL NOTES
C0.02	TOWN GENERAL NOTES
C0.03	GENERAL NOTES
C1.10	SIGNAGE STRIPING AND HORIZONTAL CONTROL PLAN NORTH
C1.11	SIGNAGE STRIPING AND HORIZONTAL CONTROL PLAN SOUTH
C1.12	SIGNAGE STRIPING AND HORIZONTAL CONTROL PLAN LOTS 9 AND 10
C1.13	HORIZONTAL CONTROL TABLES
C2.10	GRADING PLAN NORTH
C2.11	GRADING PLAN SOUTH
C2.12	OFFSITE GRADING PLAN
C2.13	LOTS 9 AND 10 DETAIL GRADING PLAN
C3.10	INITIAL CBMP PLAN
C3.11	INTERIM / FINAL CBMP PLAN
C3.90-C3.99	CBMP DETAILS
C4.10-C4.13	STORM SEWER PLAN AND PROFILE
C4.90-C4.93	STORM SEWER NOTES AND DETAILS
C5.10	STROH ROAD PLAN AND PROFILE
C5.11	PARKER ROAD PLAN AND PROFILE
C5.90	ROADWAY DETAILS
C5.91	ROADWAY DETAILS
C6.90	SIGNAGE AND STRIPING DETAILS
C6.91	SIGNAGE AND STRIPING DETAILS

PARKER WATER AND SANITATION PLAN SET

C7.00	WATER AND SEWER COVER SHEET
C7.01	WATER AND SEWER GENERAL NOTES
C7.10	OVERALL UTILITY PLAN
C7.11	WATER PLAN AND PROFILE
C7.12	WATER PLAN AND PROFILE
C7.13	WATER PLAN AND PROFILE
C7.14	SANITARY SEWER PLAN AND PROFILE
C7.15	SANITARY SEWER PLAN AND PROFILE
C7.90-C7.94	WATER AND SEWER DETAILS
LP-01	LANDSCAPE NOTES AND CALCULATIONS
LP-02	OVERALL LANDSCAPE PLAN
LP-03	LANDSCAPE PLAN
LP-04	LANDSCAPE PLAN
LP-05	LANDSCAPE NOTES
LP-06	LANDSCAPE CONSTRUCTION DETAILS

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-0255

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

	DATE	DESCRIPTION
1	10/24/17	INITIAL SUBMITTAL

REVISIONS

COVER SHEET

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C0.00

Town of Parker COLORADO

CONSTRUCTION NOTES

These notes shall appear on the cover sheet. If a cover sheet has not been used they shall be put on every sheet of the submittal.

1. All materials and construction shall be in conformance with the latest edition of the Colorado Department of Transportation Standard Specifications for Road and Bridge Construction, the latest edition of the Town of Parker Roadway Design and Construction Criteria Manual, and the Town of Parker Storm Drainage and Environmental Criteria Manual.
2. All materials and workmanship shall be subject to inspection by the Town of Parker Public Works Department. The Town reserves the right to accept or reject any such materials and workmanship that does not conform to its standards and specifications.
3. A preconstruction meeting shall be scheduled a minimum of 48 hours and a maximum of 96 hours prior to the start of construction. A preconstruction meeting will not be scheduled until the grading permit and all other necessary permits have been obtained.
4. A Development Review Engineer shall be contacted a minimum of 24 hours prior to a necessary inspection. If a Development Review Engineer is not available after proper notice of construction activity has been provided, the permittee may commence work in the Development Review Engineer's absence. However, Town of Parker reserves the right to reject the improvement if subsequent testing reveals an improper installation.
5. Location of existing utilities shall be verified by the contractor prior to actual construction. For information contact: Denver Inter-Utility Group, 303-534-6700 or 1-800-922-1987. The contractor shall field verify size and horizontal and vertical locations of existing facilities prior to construction, and notify the engineer of any discrepancies.
6. The contractor shall have one (1) signed copy of the plans, approved by the Town of Parker Public Works Director, and one (1) copy of the Roadway Design and Construction Criteria at the job site at all times.
7. All proposed street cuts to existing pavements for utilities, storm sewer or for other purposes are listed and referenced below:

Examples:	Water tie-in	Sheet 3
	Storm sewer Connection	Sheet 6

8. A plan for traffic control during construction shall be submitted to the Town of Parker for acceptance with the Right-of-Way Permit Use application. A permit will not be issued without an approved traffic control plan for use during construction.
9. All trenches shall be adequately supported and the safety of workers provided for as required by the most recent Occupational Safety and Health Administration (OSHA) "Safety and Health Regulations for Construction."
10. Compaction of all trenches must be attained and compaction test results submitted to the Development Review Engineer in preliminary form prior to paving and in final form prior to probationary acceptance.
11. The contractor is responsible for implementing and maintaining erosion and sediment control measures at all times during construction. The plan may be modified as field conditions warrant with approval from the Town of Parker Public Works Department.
12. The contractor shall provide, erect and maintain proper traffic control devices until the site is open to traffic. The contractor shall submit a traffic control plan to the Town of Parker Public Works Department for approval prior to construction.
13. Plans are approved for period of 1 (one) year from the date shown on the Town of Parker signature block. Plans shall be resubmitted to the Town for approval after 1 year. The cost of the plan re-review and re-acceptance will be charged back to the developer including all time and expenses of the Town of Parker Public Works Department.
14. Repair of any damage to existing improvements or landscaping is the responsibility of the contractor.
15. All damaged existing curb, gutter, and sidewalk shall be repaired prior to acceptance of completed improvements.
16. All construction activities must comply with the State of Colorado permitting process for "Stormwater Discharges Associated with Construction Activity." For information, please contact Colorado Department of Heath, Water Quality Control Division, WQCD-PE-B2, 4300 Cherry Drive South, Denver, Colorado 80222-1530. Attention: Permits and Enforcement Section. Phone (303) 692-3500.
17. If dewatering is required, a state construction dewatering discharge permit is required for discharges to a storm sewer, channel, irrigation ditch, any street that is tributary to the aforementioned facilities, or any water of the United States.
18. All references to books, pages, maps, and reception number are public documents on file with the County Clerk and Recorder's Office.

ROADWAY NOTES

The following notes shall appear on the cover sheet of all submittals containing roadway plans. If a cover sheet has not been used, they shall be put on every sheet of the submittal containing roadway design.

1. Paving shall not commence until a soils report and pavement design is approved by the Engineering Division and subgrade compaction tests are submitted to and approved by the Development Review Engineer.
2. Standard Town of Parker Handicap Ramps are to be constructed at all curb returns and at all "T" intersections.
3. All stationing is based on centerline of roadways unless otherwise noted.
4. All elevations are on USGS DATUM with date. Range point or monument shall be shown on the construction plans.
5. Except where otherwise provided for in these plans and specifications, the Colorado Department of Highways Standard Specifications for Road and Bridge Construction, the Colorado Department of Highways M and S Standards, and the Town of Parker Roadway Design and Construction Criteria Manual, latest edition, shall apply.

STORM DRAINAGE INFRASTRUCTURE NOTES

1. All storm drainage improvements are subject to compliance with the Colorado Department of Transportation (CDOT) current edition of the Standard Specifications for Road and Bridge Construction, M & S Standards, and all standard special provisions currently used by CDOT, with the modifications set forth in the Town of Parker's Storm Drainage and Environmental Criteria Manual (SDECM), as amended.
2. The contractor shall comply with the "Colorado Water Quality Control Act" (Title 25, Article 8 CRS), the "Protection of Fishing Streams" Title 33, Article 5, CRS), the "Clean Water Act" (33 USC 1344), Cherry Creek Reservoir Control Regulation No. 72" (5 CCR 1002-72), the regulation promulgated, certification or permits issues, and the requirements presented in the SDECM Revision to Section 107 and the Construction BMP Plan. In the event of conflicts between these requirements and water quality control laws, rules, or regulations of other Federal, or State agencies, the more restrictive laws, rules, or regulations shall apply.
3. Inspections: Construction shall not begin until a grading permit has been issued for the project. The contractor shall notify the Town of Parker Engineering Department (Public Works) to schedule inspections a minimum of 48 hours prior the construction of all drainage infrastructure (storm sewers, inlets, manholes, energy dissipaters, riprap, grouted boulders, detention pond outlet structures, forebays, trickle channels, etc). Failure to notify the engineering department for inspections may result in non-acceptance of the infrastructure by the Town. Urban Drainage and Flood Control District must also be notified in a similar manner for all maintenance eligible drainage infrastructures (consult with Stormwater Engineering Division).
4. Structural backfill (CDOT Class 1) shall be compacted to conform to CDOT Standard Specification 203.03. Structural backfill (CDOT Class 2) shall conform to CDOT Standard Specification 203.07. At the contractor's option, Structural Backfill (Squeegee) meeting the gradation requirements contained in Revision of Section 206 of the CDOT Standard Specifications as presented in the SDECM, may be substituted for Structure backfill (Class 1) or Class 2) for backfilling of culvert pipes, storm sewer pipes, manholes and inlet structures; however, the top 2 feet below subgrade elevation shall be the required embankment material.
5. All excavations shall meet OSHA requirements.
6. Testing: Probationary acceptance of storm drainage improvements will be contingent upon satisfactory testing results. In all cases where tests indicate compaction less than that required by Town specifications, additional compaction and tests will be required until the specifications are met. Frequency of testing will be as follows:
   - 1 test for subgrade and 1 test for backfill at every above ground appurtenance (manholes, inlets, etc)
   - 1 test every 200 LF of mainline trench every 1 foot of backfill lift and within 1 foot from all structures.
7. Allowable storm sewer conduit material within the Town of Parker shall be limited to Reinforced Concrete Pipe (RCP) conforming to CDOT Standard Specification 706.02.
8. All RCP joints shall be manufactured in accordance with ASTM C443. Rubber gaskets shall be used on all pipe joints conforming to ASTM C443. All RCP sections shall be joined in such a manner that the ends are fully entered and the inner surfaces are reasonable flush. Average joint gap that exceeds ½ inch shall be filled with an approved flexible plastic sealant.
9. Joint restraints and toe-walls, conforming to CDOT M&S Standard Plan No. M-601-11 shall be used on all RCP flared end section outfalls.
10. Epoxy coated rebar shall be used as reinforcing steel on all storm inlets. Reference CDOT M&S Standard Plan No. M-604-10, 11, 12, and 13.
11. CDOT Class D concrete shall be used for all concrete drainage structures.
12. Pre-cast inlets and manhole bases shall not be used within the Town of Parker Right-of-way, with the exception of CDOT Type C and D inlets.
13. Two- (2) manhole access points are required on all Type "R" curb inlets greater than or equal to ten (10) feet in length as presented in CDOT M&S Standard Plan No. M-604-12.
14. All grouting (boulders, riprap) shall be in accordance with the Revision of Section 506 of the CDOT Standard Specifications as presented in the SDECM.
15. All boulders and riprap shall be selected and placed in accordance with the Revision of Section 506 of the CDOT Standard Specifications as presented in the SDECM.
16. Contractor shall refer to the Town of Parker's Construction Best Management Practices details and notes for all requirements relating to re-vegetation, sediment and erosion control requirements for construction activities.

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

REVISIONS

TOWN GENERAL NOTES

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C0.01

SIGNAGE AND STRIPING NOTES

In addition to the notes in the above section of these roadway standards, the following notes shall appear on the cover sheet of all submittals containing roadways. The following notes shall be on all signage and striping plans:

1. All traffic control devices shall conform to the most recent version of the federal Manual on Uniform Traffic Control Devices (MUTCD), Colorado Supplemental MUTCD, and the Town of Parker Roadway Design and Construction Criteria Manual. Further specifications and illustrations are located in the Colorado Department of Transportation (CDOT) M and S Standards.

2. A field inspection of location and installation of all signs and markings shall be performed by the Town of Parker.

3. The contractor installing signs shall be responsible for the locating and protecting of all underground utilities.

4. Type III (lighted) barricades shall be set at the ends of roadways separating finished (and/or accepted) and unfinished construction areas and shall be maintained by the contractor/developer. A "Road Closed Ahead" and "To Be Extended" warning signs shall be installed appropriately in advance of the Type III barricades.

5. Special care shall be taken in sign locations to ensure an unobstructed view of each sign.

6. Where stop sign control is appropriate, 36 inch stop signs shall be used for approaches to any roadway that is classified as a collector or greater.

7. A 7 foot minimum post length shall be maintained from the bottom of the sign panel to the ground. This requirement for vertical clearance is for all signs.

8. Delineation of roadways shall be as specified in the Colorado Department of Transportation M and S Standards.

9. Raised median island noses shall have R4-7 signs at each end and a 4"x12" high intensity yellow sign blank located midway between the R4-7 sign and finished grade on each post.

10. Signage and striping has been determined by information available at the time of review. Prior to the initiation of any warranty period, the Town of Parker reserves the right to require modifications to existing, or installation of, additional signage and/or pavement marking if it is determined that conditions warrant such modification according to the MUTCD or the CDOT M and S Standards. All signage and striping shall fall under the requirements of the two year warranty period for new construction. Additionally, all pavement markings shall not lift or peel during the first year after installation.

11. Diamond grade material shall be used on all stop signs and overhead signs. All other roadside traffic control devices shall use high intensity grade sheeting. No fluorescent yellow green sheeting shall be used unless specifically approved by the Town of Parker.

12. All street name signs shall be high intensity, extruded, green and white blades. Arterial and collector street name signs shall be 9 inch blades and have mixed case lettering. Local street name signs shall be 6 inches blades with mixed case lettering.

13. All layouts for internally illuminated street name signs shall be submitted to the Town for review and approval prior to fabrication.

14. All removed signs shall be returned to the Town of Parker.

15. Crosswalks: Shall be constructed using preformed thermo-plastic or an approved equal.

    Shall be Longitudinal 2 feet by 10 feet (Continental) type or other approved by the Town of Parker.

    Shall line up with handicap ramps.

    Shall be centered within lanes and placed on lane and curb lines so as to avoid vehicle wheel paths.

16. All pavement marking material (including words and symbols) shall be as follows:

    For Concrete Surface:
    Long line markings (channelization lines, skips, etc.) shall be epoxy paint.
    Other paint may be used for temporary application only when approved by the Town of Parker.

    Words, symbols, and crosswalks/stop bars shall be methyl-mythacralate, preformed thermoplastic (90 mil), preformed plastic (90 mil), inlayed tape (STAMARK), or as specified.

    (Sand or water blast curing compound prior to installation of markings.)

    For Asphalt Surface:
    Long line markings (channelization lines, skips, etc.) shall be epoxy paint.
    Other paint may be used for temporary application only when approved by the Town of Parker.

    Words, symbols, and crosswalks/stop bars shall be hot applied thermoplastic (90 mil), preformed plastic (90 mil), inlayed tape (STAMARK), Methyl-Mythacralate, or as specified.

17. Inspection and approval of striping and crosswalk layout to be done by Town of Parker Development Review Engineer (call 303-840-9546) prior to application of final striping.

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

REVISIONS

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

TOWN GENERAL NOTES

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C0.02

PROJECT GENERAL NOTES

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF IMPROVEMENTS SHALL MEET OR EXCEED THE CITY AND APPLICABLE UTILITY DISTRICT STANDARDS AND SPECIFICATIONS, AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS A CONFLICT BETWEEN THESE PLANS AND ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING AUTHORITY'S STANDARDS AND SPECIFICATIONS. ALL REFERENCES TO PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARDS, UNLESS SPECIFICALLY STATED OTHERWISE.

2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE PLANS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED, AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

3. UTILITY TRENCHES ARE TO BE SLOPED OR BRACED AND SHEETED AS NECESSARY TO FURNISH SAFE WORKING CONDITIONS FOR THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES IN COMPLIANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL HEALTH AND SAFETY RULES AND REGULATIONS.

4. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS AND TO COORDINATE SUCH RELOCATIONS WITH THE APPROPRIATE UTILITY PROVIDER AND ALL AFFECTED PARTIES.

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE APPROPRIATE UTILITY COMPANY/DISTRICT TO OBTAIN TEMPORARY POWER, TELEPHONE, AND WATER SERVICE DURING CONSTRUCTION. ALL COST FOR TEMPORARY SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

6. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY AND ALL UTILITY COMPANIES/DISTRICTS INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF PROJECT SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

9. THE CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION FENCE PRIOR TO, AND THROUGHOUT CONSTRUCTION.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK AND INSPECTIONS AS REQUIRED BY THE CITY, STATE, OR LOCAL DISTRICTS. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH INSPECTION.

11. THE CONTRACTOR SHALL NOTIFY THE CITY AND LOCAL UTILITY COMPANIES/DISTRICTS AT LEAST 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.

12. THE CONTRACTOR SHALL NOTIFY THE CITY AND LOCAL UTILITY COMPANIES/DITRICTS AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.

14. INCLUDED IN THIS PACKAGE IS THE DEMOLITION AND DISPOSAL OF ALL EXISTING UTILITIES, SITE IMPROVEMENTS AND SITE FURNISHINGS NEEDED FOR CONSTRUCTION OF THE IMPROVEMENTS SHOWN IN THIS SET OF CONSTRUCTION DRAWINGS. ALL QUESTIONS IN REGARD TO DEMOLITION SHALL BE SUBMITTED TO THE OWNER IN WRITING PRIOR TO BID.

15. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTING ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.

    COORDINATES PROVIDED ON THE DRAWING SHALL BE VERIFIED. ANY WORK DONE INCORRECTLY BASED UPON THE PROVIDED COORDINATES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND FIXED AT HIS OWN EXPENSE.

16. RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS, GROUT, AND STEEL SHIMS TO ADJUST THE MANHOLE FRAMES TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH THE CITY OR UTILITY COMPANY/DISTIRCT STANDARD SPECIFICATIONS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.

17. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE PROJECT MANAGER FOR THE OWNER/DEVELOPER AND THE ENGINEER IMMEDIATELY.

18. BENCHMARK VERIFICATION: THE CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCHMARK(S), BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARKS, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

19. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING AUTHORITY'S STANDARDS AND SPECIFICATIONS.

SITE/GRADING GENERAL NOTES

1. CONTOURS SHOWN REPRESENT FINISHED ELEVATIONS. ADJUSTMENT TO SUBGRADE FOR ALL STRUCTURES (IE PAVING, SIDEWALKS, SLABS, ETC) IS THE RESPONSIBILITY OF THE CONTRACTOR. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN ESTIMATE OF EARTHWORK QUANTITIES.

2. EXISTING SPOT ELEVATIONS AT MATCH POINTS WERE DERIVED FROM CONTOURS PROVIDED WITH THE SITE MAPPING AND ARE ANTICIPATED TO BE +/- AND SHALL BE VERIFIED PRIOR TO ANY CONSTRUCTION. ANY DEVIATION SHALL BE REPORTED TO THE ENGINEER.

3. PRIOR TO PLACING ANY CONCRETE CURB, GUTTER, PANS, AND ACCESSIBLE RAMPS, THE FORMWORK ELEVATIONS SHALL BE VERIFIED AND PROVIDED TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. ANY WORK THAT DOES NOT COMPLY WITH THIS REQUIREMENT AND IS PLACED IN ERROR WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. NO PROPOSED LANDSCAPED SLOPE SHALL EXCEED 3:1, OR AS SPECIFIED OTHERWISE BY LOCAL CODE.

5. CONTRACTOR SHALL REFER TO BUILDING ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND LOCATIONS OF BUILDINGS AND APPURTENANCES. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS AND THE GEOTECHNICAL REPORT PREPARED SPECIFICALLY FOR THIS SITE.

6. ALL LANDSCAPED AREAS ARE TO BE CONDITIONED PER THE REQUIREMENTS OF THE LANDSCAPE PLANS. ALL DISTURBED AREAS THAT ARE NOT DESIGNATED TO BE PAVED SHALL BE LANDSCAPED OR SEEDED ACCORDING TO THE LANDSCAPE PLAN(S) AND GRADING, EROSION AND SEDIMENT CONTROL PLAN(S).

7. ALL PROPOSED SPOT ELEVATIONS ARE FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED. SPOT ELEVATIONS TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. CONTRACTOR SHALL NOTIFY ENGINEER OF SPOT ELEVATIONS WHICH DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS AND SPECIFIC PROFILE DATA SHALL BE USED FOR SETTING ELEVATIONS OF CURB AND GUTTER AND UTILITIES. THE CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

8. ASPHALT GRADES SHALL NOT BE LESS THAN 1.00% IN THE DIRECTION OF FLOW; CURB AND GUTTER AND CONCRETE PAN GRADES SHALL NOT BE LESS THAN 0.50% IN THE DIRECTION OF FLOW. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL PAVEMENT AREAS AND ALONG ALL CURBS. PAVEMENT OR CURBS WHICH DO NOT PROVIDE PROPER DRAINAGE MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

9. HANDICAP PARKING STALLS SHALL BE PAINTED AND SIGNED IN ACCORDANCE WITH CURRENT ADA STANDARDS AND REGULATIONS.

10. HANDICAP RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA STANDARDS AND REGULATIONS.

11. THE FOLLOWING IS APPLICABLE TO ALL CONSTRUCTION WITHIN THE LIMITS OF THIS PROJECT:

    a. THE MAXIMUM CROSS SLOPE OF ANY SIDEWALK OR PEDESTRIAN ACCESS ROUTE SHALL BE 2.0%. THE SLOPE SHALL BE MEASURED PERPENDICULAR TO THE DIRECTION OF TRAVEL.

    b. THE GRADE OF HANDICAP PARKING STALLS SHALL NOT EXCEED 2.0% IN ANY DIRECTION. HANDICAP PARKING SHALL HAVE AN ACCESSIBLE ROUTE TO THE BUILDING ENTRY AS SHOWN ON THE DRAWINGS.

    c. HANDICAP ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM LONGITUDINAL GRADE OF 5.0%. ACCESSIBLE ROUTES EXCEEDING 5.0% SHALL BE CONSTRUCTED WITH RAMPS AND HAND RAILS HAVING A MAXIMUM SLOPE OF 8.33% FOR A MAXIMUM RISE OF 30 INCHES. A 5-FOOT BY 5-FOOT LANDING PAD (WITH A 2 PERCENT MAXIMUM SLOPE IN ANY DIRECTION) SHALL BE CONSTRUCTED AT THE BOTTOM AND TOP OF ALL RAMP.

12. PRIOR TO PLACEMENT OF CURB AND PAVEMENT CONTRACTOR SHALL VERIFY COMPLIANCE WITH ADA STANDARDS.

13. IF DURING THE GRADING AND CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE PROJECT MANAGER FOR THE DEVELOPER/OWNER, THE ENGINEER, AND THE GEOTECHNICAL ENGINEER IMMEDIATELY.

14. ALL GRATES, MANHOLE RIMS, VALVE BOXES, VALVE COVERS, CLEANOUTS, AND VAULT OR BOX COVERS SHALL BE ADJUSTED TO "AS CONSTRUCTED" FINISHED GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.

15. ALL CONCRETE PAVEMENT, CONCRETE FLATWORK, CONCRETE STRUCTURES, AND CONCRETE UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE MATERIAL RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED SPECIFICALLY FOR THIS SITE.

16. CONCRETE PAVEMENT JOINTS SHALL MEET THE REQUIREMENTS OF CDOT STANDARDS AND SPECIFICATIONS, AND CDOT STANDARD PLAN NO. M-412-1, UNLESS NOTED OTHERWISE.

17. ALL SIGNING AND STRIPING WILL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND LOCAL CODES.

18. REFER TO ARCHITECTURAL PLANS FOR BUILDING SIGNAGE LOCATIONS.

19. CONTRACTOR SHALL COORDINATE SIGNAGE PERMIT, INSTALLATION, AND SPECIFICATIONS WITH OWNER AND SIGNAGE MANUFACTURER.

20. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ANY AND ALL ALLOWABLE MONUMENT OR POLE SIGNAGE WITH OWNER AND SIGNAGE MANUFACTURER, AND PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION TO THE OWNER FOR APPROVAL.

21. REFER TO THE SITE PLAN FOR EXTENT OF PAVEMENT AND PAVEMENT SECTIONS.

22. GRADES WITHIN ASPHALT PAVING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF THE DESIGN GRADE. HOWEVER, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL PAVEMENT AREAS AND ALONG CURBS. CURBS OR PAVEMENT AREAS WHICH DO NOT PROVIDE PROPER DRAINAGE MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

23. THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL LANDSCAPED AND PAVED AREAS.

24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ANY EXISTING IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO STREET PAVEMENT, FENCES, SOD, LANDSCAPING, SPRINKLER SYSTEMS, AND UTILITIES DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL LOCATION AND CONDITION.

25. IF ANY EXISTING STRUCTURES, SIDEWALK, AND/OR CURB AND GUTTER MODIFIED OR TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER PRIOR TO PROJECT CLOSE OUT.

26. THE CONTRACTOR SHALL PROTECT THE PROJECT BENCHMARK(S) THROUGHOUT CONSTRUCTION AND SET ADDITIONAL PROJECT BENCHMARKS AS NECESSARY TO MAINTAIN VERTICAL CONTROL THROUGHOUT THE DURATION OF THE PROJECT.

27. THE CONTRACTOR SHALL INSPECT AND REPAIR EXISTING DRAINAGE STRUCTURES AS NEEDED, AND CLEAN OUT EXISTING PIPES TO REMOVE ALL SILT AND DEBRIS.

MSE RETAINING WALL GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE FULL DESIGN AND CONSTRUCTION OF THE MSE RETAINING WALLS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND INDUSTRY STANDARDS AND SPECIFICATIONS.

2. THE ALIGNMENT OF THE MSE WALLS IS SHOWN ON THE PLANS AND ASSOCIATED PROFILES DEPICTING THE FINISHED GRADE AT THE TOP OF THE WALL (TOW) AND BOTTOM OF THE WALL (BOW) AND IS NOT INTENDED TO SHOW ANY PORTION OF THE WALL BELOW FINISHED GRADE. CHANGES IN THE TOP OF WALL ELEVATIONS SHALL BE ACHIEVED BY UNIFORMLY STEPPING THE WALL.

3. CONTRACTOR IS REQUIRED TO:

    a. REVIEW THE GEOTECHNICAL REPORT FOR THE SITE AND VERIFY THE REPORT PROVIDES ALL INFORMATION REQUIRED FOR THE DESIGN OF THE WALL.

    b. PROVIDE FULL DESIGN OF THE WALL INCLUDING DESIGN CALCULATIONS AND CONSTRUCTION DRAWINGS PREPARED BY A LICENSED ENGINEER TO BE SUBMITTED TO THE CITY FOR APPROVAL. THE DESIGN SHALL CONSIDER THE LONG TERM STRUCTURAL STABILITY OF THE WALL AND ADDRESS DRAINAGE BEHIND THE WALL.

    c. OBTAIN ALL PERMITS REQUIRED FOR THE WORK.

    d. VERIFY EXISTING AND PROPOSED ELEVATIONS AT TOP OF WALL.

    e. PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR CONSTRUCTION AND INSTALLATION OF THE WALL.

    f. PROVIDE MATERIAL TESTING OF ALL MATERIALS USED FOR CONSTRUCTION OF WALLS.

    g. DETAIL, PROVIDE, AND INSTALL A PEDESTRIAN GUARDRAIL ALONG THE TOP OF ALL WALLS INSTALLED. SUBMIT DETAILS TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

    h. SUBMIT TO THE ARCHITECT A COLOR AND TEXTURE SAMPLE OF THE BLOCK TO BE USED PRIOR TO INSTALLATION.

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

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Consulting Civil Engineers
6901 South Pierce Street, Suite 315
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303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

	DATE	DESCRIPTION
1	10/24/17	INITIAL SUBMITTAL

REVISIONS

GENERAL NOTES

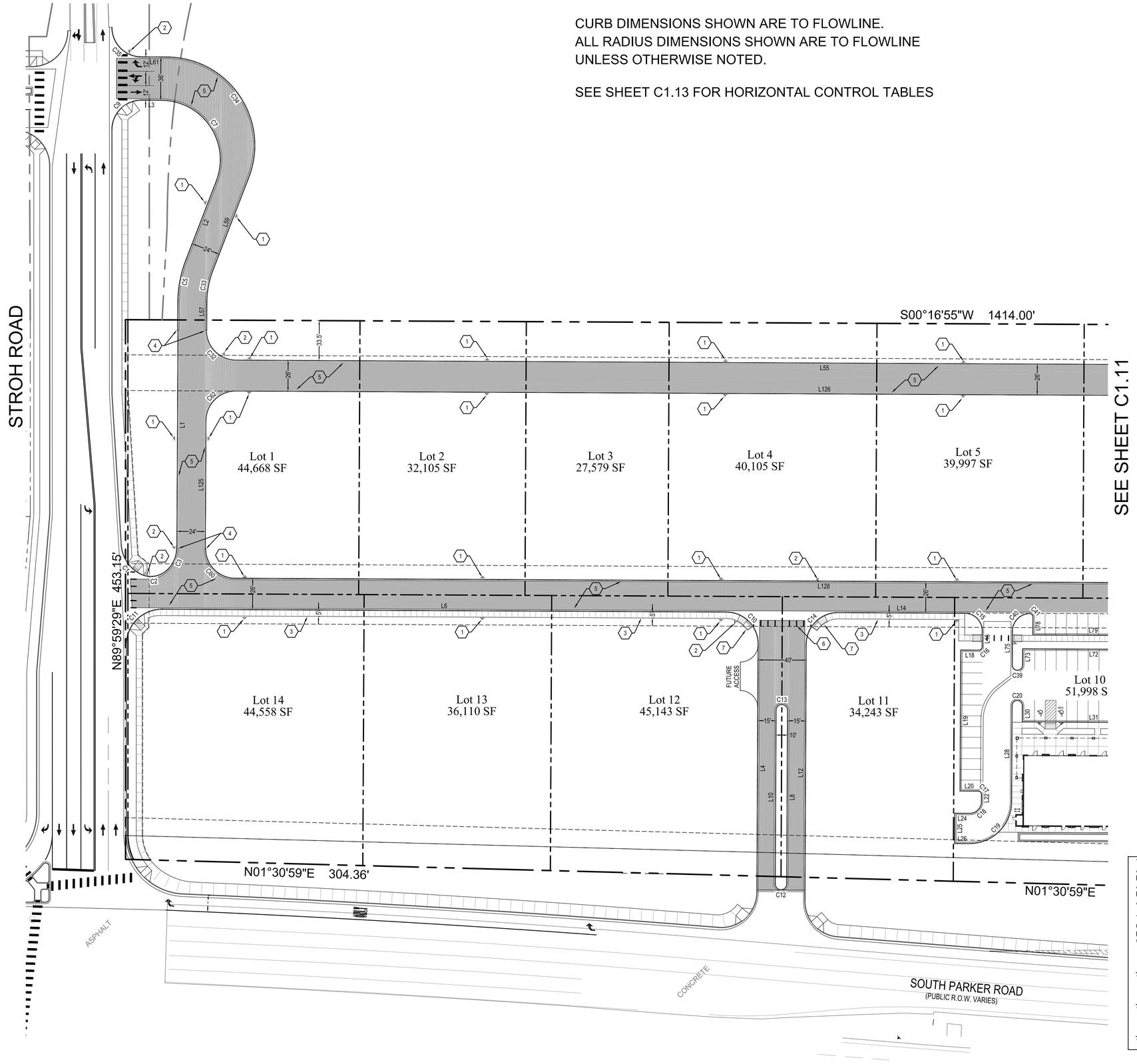
PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C0.03

CURB DIMENSIONS SHOWN ARE TO FLOWLINE.
ALL RADIUS DIMENSIONS SHOWN ARE TO FLOWLINE
UNLESS OTHERWISE NOTED.

SEE SHEET C1.13 FOR HORIZONTAL CONTROL TABLES



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CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

CONSTRUCTION NOTES

1. INSTALL "NO PARKING FIRE LANE" SIGN. SEE SHEET C6.91.
2. INSTALL STOP SIGN. SEE SHEET C6.90.
3. CONSTRUCT PRIVATE CONCRETE SIDEWALK AT WIDTH SHOWN. SEE SHEET C6.90.
4. END / BEGIN CURB AND GUTTER.
5. CONSTRUCT HEAVY DUTY ASPHALT PAVEMENT. SEE GEOTECHNICAL REPORT.
6. PAINT CROSSWALK. SEE SHEET 6.91.
7. CONSTRUCT CURB RAMP WITH DETECTABLE WARNING. SEE SHEET C6.90.

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

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SIGNAGE STRIPING AND HORIZONTAL CONTROL PLAN NORTH

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C1.10

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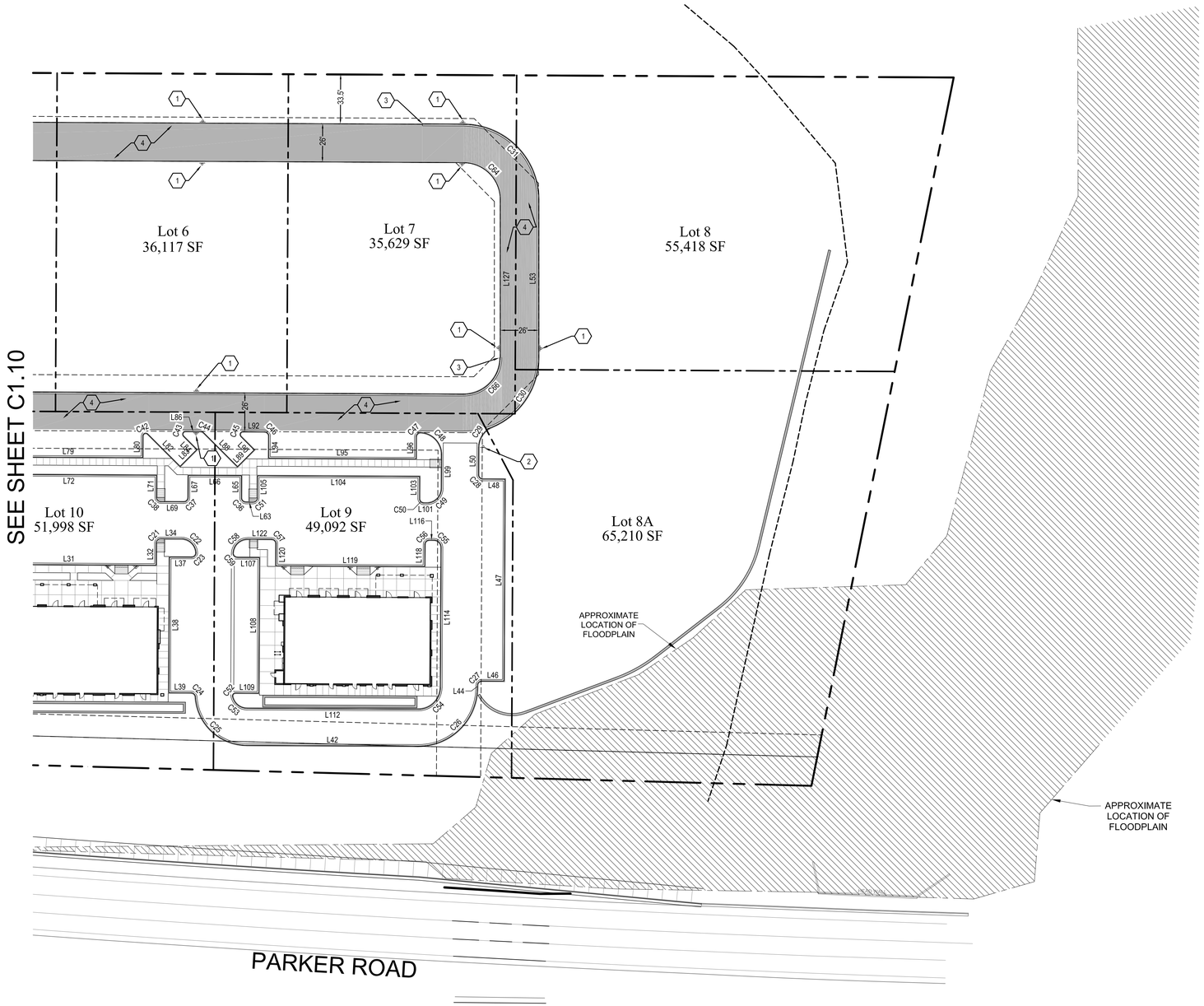
SEE SHEET C1.13 FOR HORIZONTAL CONTROL TABLES



CONSTRUCTION NOTES

1. INSTALL "NO PARKING FIRE LANE" SIGN. SEE SHEET C6.91.
2. INSTALL STOP SIGN. SEE SHEET C6.90.
3. END / BEGIN CURB AND GUTTER.
4. CONSTRUCT HEAVY DUTY ASPHALT PAVEMENT. SEE GEOTECHNICAL REPORT.

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83)
ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

Perception
Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-238-5255

PREPARED UNDER THE DIRECT SUPERVISION OF
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DATE	DESCRIPTION
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REVISIONS

SIGNAGE STRIPING AND HORIZONTAL CONTROL PLAN SOUTH

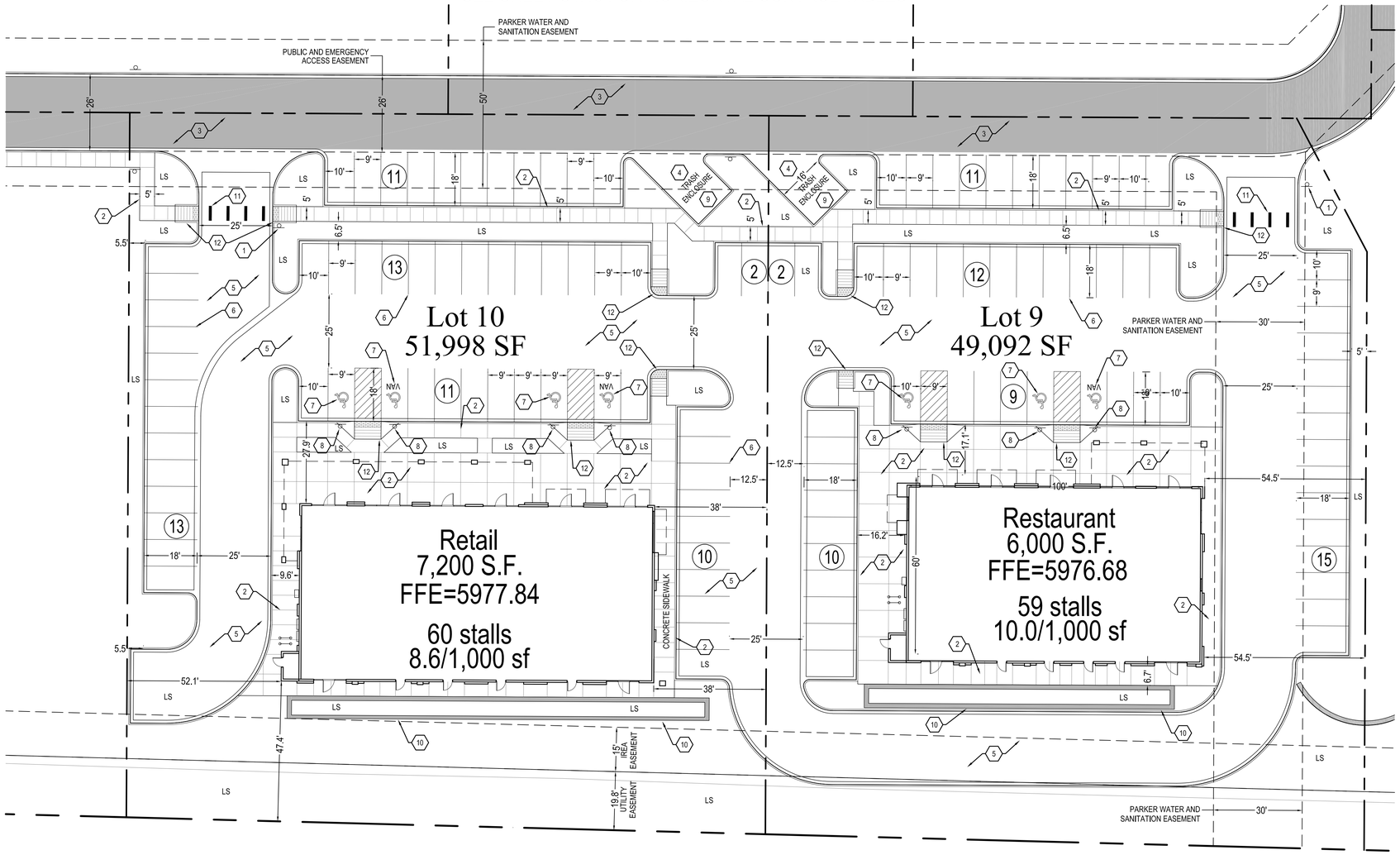
PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C1.11

CURB DIMENSIONS SHOWN ARE TO FLOWLINE.
ALL RADIUS DIMENSIONS SHOWN ARE TO FLOWLINE
UNLESS OTHERWISE NOTED.

SEE SHEET C1.13 FOR HORIZONTAL CONTROL TABLES



CONSTRUCTION NOTES

1. INSTALL STOP SIGN. SEE SHEET C6.90.
2. CONSTRUCT PRIVATE CONCRETE SIDEWALK AT WIDTH SHOWN. SEE SHEET C6.90.
3. CONSTRUCT HEAVY DUTY ASPHALT PAVEMENT. SEE GEOTECHNICAL REPORT.
4. CONSTRUCT HEAVY DUTY CONCRETE PAVEMENT. SEE GEOTECHNICAL REPORT.
5. CONSTRUCT STANDARD DUTY ASPHALT PAVEMENT. SEE GEOTECHNICAL REPORT.
6. PAINT PARKING LOT STRIPING AS SHOWN WITH 4" WIDE WHITE TRAFFIC PAINT.
7. PAINT ACCESSIBLE STRIPING AND SYMBOL. SEE SHEET C6.90.
8. INSTALL ACCESSIBLE PARKING SIGN. SEE SHEET C6.90.
9. CONSTRUCT TRASH ENCLOSURE. SEE BUILDING PLANS.
10. RAISED PLANTER. SEE BUILDING PLANS.
11. PAINT CROSSWALK. SEE SHEET 6.91.
12. CONSTRUCT CURB RAMP WITH DETECTABLE WARNING. SEE SHEET C6.90.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

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BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83)
ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

REVISIONS

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

SIGNAGE STRIPING AND HORIZONTAL CONTROL PLAN LOTS 9 AND 10

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C1.12

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C1	30.13	57°33'01"	30.00
C2	24.31	69°38'08"	20.00
C3	21.39	49°01'25"	25.00
C5	35.96	20°48'49"	99.00
C7	96.70	110°48'49"	50.00
C9	39.40	90°17'26"	25.00
C10	42.41	90°00'00"	27.00
C11	47.28	90°17'26"	30.00
C12	15.71	180°00'00"	5.00
C13	15.71	180°00'00"	5.00
C14	42.41	90°00'00"	27.00
C15	23.56	90°00'00"	15.00
C16	4.71	90°00'00"	3.00
C17	4.71	90°00'00"	3.00
C18	15.71	90°00'00"	10.00
C19	54.98	90°00'00"	35.00
C20	14.14	180°00'00"	4.50
C21	4.71	90°00'00"	3.00
C22	15.07	86°21'42"	10.00
C23	4.90	93°38'18"	3.00
C24	4.51	86°08'37"	3.00
C25	52.62	86°08'37"	35.00
C26	62.83	90°00'00"	40.00
C27	4.71	90°00'00"	3.00
C28	4.71	90°00'00"	3.00

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C29	17.60	67°13'37"	15.00
C30	60.10	67°31'02"	51.00
C31	79.85	89°42'34"	51.00
C32	39.27	90°00'00"	25.00
C33	27.24	20°48'49"	75.00
C34	143.12	110°48'49"	74.00
C35	39.14	89°42'34"	25.00
C36	4.71	90°00'00"	3.00
C37	4.71	90°00'00"	3.00
C38	4.71	90°00'00"	3.00
C39	14.14	180°00'00"	4.50
C40	22.94	87°36'43"	15.00
C41	4.84	92°23'17"	3.00
C42	4.70	134°43'05"	2.00
C43	4.72	135°16'55"	2.00
C44	2.34	44°43'05"	3.00
C45	4.72	135°16'55"	2.00
C46	4.71	90°00'00"	3.00
C47	4.85	92°36'01"	3.00
C48	22.88	87°23'59"	15.00
C49	15.71	90°00'00"	10.00
C50	4.71	90°00'00"	3.00
C51	4.71	90°00'00"	3.00
C52	3.53	101°12'51"	2.00
C53	13.75	78°47'09"	10.00

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C54	23.56	90°00'00"	15.00
C55	7.85	90°00'00"	5.00
C56	4.71	90°00'00"	3.00
C57	4.71	90°00'00"	3.00
C58	15.07	86°21'42"	10.00
C59	4.90	93°38'18"	3.00
C60	39.27	90°00'00"	25.00
C62	39.27	90°00'00"	25.00
C64	39.14	89°42'34"	25.00
C66	39.40	90°17'26"	25.00
L1	206.71	S89° 43' 05.45"E	
L2	71.42	S68° 54' 16.40"E	
L3	16.45	N0° 16' 54.55"E	
L4	208.24	S89° 43' 05.45"E	
L6	473.84	N0° 16' 54.55"E	
L8	145.84	N89° 43' 05.45"W	
L10	145.84	S89° 43' 05.45"E	
L12	215.66	S89° 43' 05.45"E	
L14	106.17	S0° 16' 54.55"W	
L16	13.29	N89° 43' 05.45"W	
L18	15.00	N0° 16' 54.55"E	
L19	118.00	N89° 43' 05.45"W	
L20	15.00	S0° 16' 54.55"W	
L22	6.10	N89° 43' 05.45"W	
L24	12.32	N0° 16' 54.55"E	

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
L25	25.00	N89° 43' 05.45"W	
L26	12.32	S0° 16' 54.55"W	
L28	80.89	S89° 43' 05.45"E	
L30	13.50	N89° 43' 05.45"W	
L31	119.00	S0° 16' 54.55"W	
L32	15.00	S89° 43' 05.45"E	
L34	14.13	S0° 16' 54.55"W	
L37	14.99	N0° 16' 54.55"E	
L38	92.00	N89° 43' 05.45"W	
L39	15.09	S0° 16' 54.55"W	
L42	116.50	S0° 16' 54.55"W	
L44	1.44	S89° 43' 05.45"E	
L46	15.00	S0° 16' 54.55"W	
L47	137.00	S89° 43' 05.45"E	
L48	15.00	N0° 16' 54.55"E	
L50	18.70	S89° 43' 05.45"E	
L53	107.37	N89° 59' 28.72"E	
L55	988.39	N0° 16' 54.55"E	
L57	23.35	S89° 43' 05.45"E	
L59	84.26	S68° 54' 16.40"E	
L61	21.45	N0° 16' 54.55"E	
L63	5.00	N0° 16' 54.55"E	
L65	15.00	S89° 43' 05.45"E	
L66	36.00	N0° 16' 54.55"E	
L67	15.00	N89° 43' 05.45"W	

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
L69	15.63	N0° 16' 54.55"E	
L71	15.00	S89° 43' 05.45"E	
L72	119.00	N0° 16' 54.55"E	
L73	13.50	N89° 43' 05.45"W	
L75	28.50	S89° 43' 05.45"E	
L78	14.99	N89° 43' 05.45"W	
L79	101.00	S0° 16' 54.55"W	
L80	14.63	S89° 43' 05.45"E	
L82	31.04	S45° 00' 00.00"W	
L83	16.00	S45° 00' 00.00"E	
L84	12.79	N45° 00' 00.00"E	
L86	10.20	S0° 16' 54.55"W	
L88	32.58	S45° 00' 00.00"W	
L89	16.00	S45° 00' 00.00"E	
L90	12.79	N45° 00' 00.00"E	
L92	14.60	S0° 16' 54.55"W	
L94	15.00	N89° 43' 05.45"W	
L95	100.00	S0° 16' 54.55"W	
L96	14.99	S89° 43' 05.45"E	
L99	23.00	N89° 43' 05.45"W	
L101	2.00	N0° 16' 54.55"E	
L103	15.00	S89° 43' 05.45"E	
L104	110.00	N0° 16' 54.55"E	
L105	15.00	N89° 43' 05.45"W	
L107	14.99	S0° 16' 54.55"W	

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
L108	92.00	N89° 43' 05.45"W	
L109	15.85	N0° 16' 54.55"E	
L112	116.50	S0° 16' 54.55"W	
L114	95.00	S89° 43' 05.45"E	
L116	3.21	N0° 16' 54.55"E	
L118	15.00	N89° 43' 05.45"W	
L119	101.00	N0° 16' 54.55"E	
L120	15.00	S89° 43' 05.45"E	
L122	16.29	N0° 16' 54.55"E	
L125	107.36	S89° 43' 05.45"E	
L126	988.39	S0° 16' 54.55"W	
L127	107.37	S89° 59' 28.72"W	
L128	988.93	N0° 16' 54.55"E	

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TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

Perception Design Group, Inc.
Consulting Civil Engineers
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Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

REVISIONS

HORIZONTAL CONTROL TABLES

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
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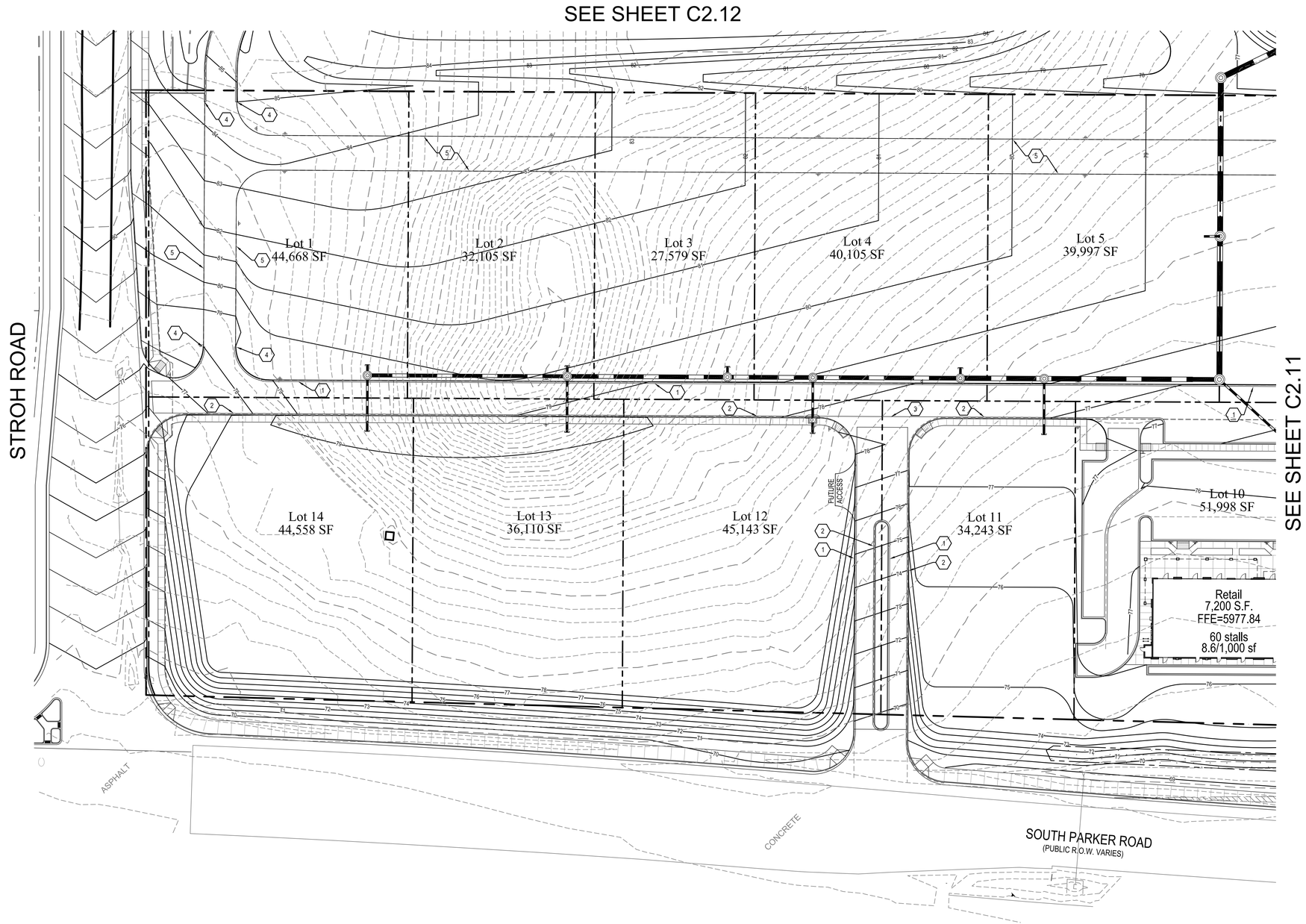
SHEET
C1.13



CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE CURB AND GUTTER WITH SPILL PAN. RE: SHEET C5.90.
2. CONSTRUCT CONCRETE CURB AND GUTTER WITH CATCH PAN. RE: SHEET C5.90.
3. CONSTRUCT 8' WIDE CONCRETE CROSS PAN.
4. END CURB AND GUTTER.
5. EDGE OF ASPHALT. NO CURB.

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

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BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83)
ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

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REVISIONS

GRADING PLAN NORTH

PARKER POINTE
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SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
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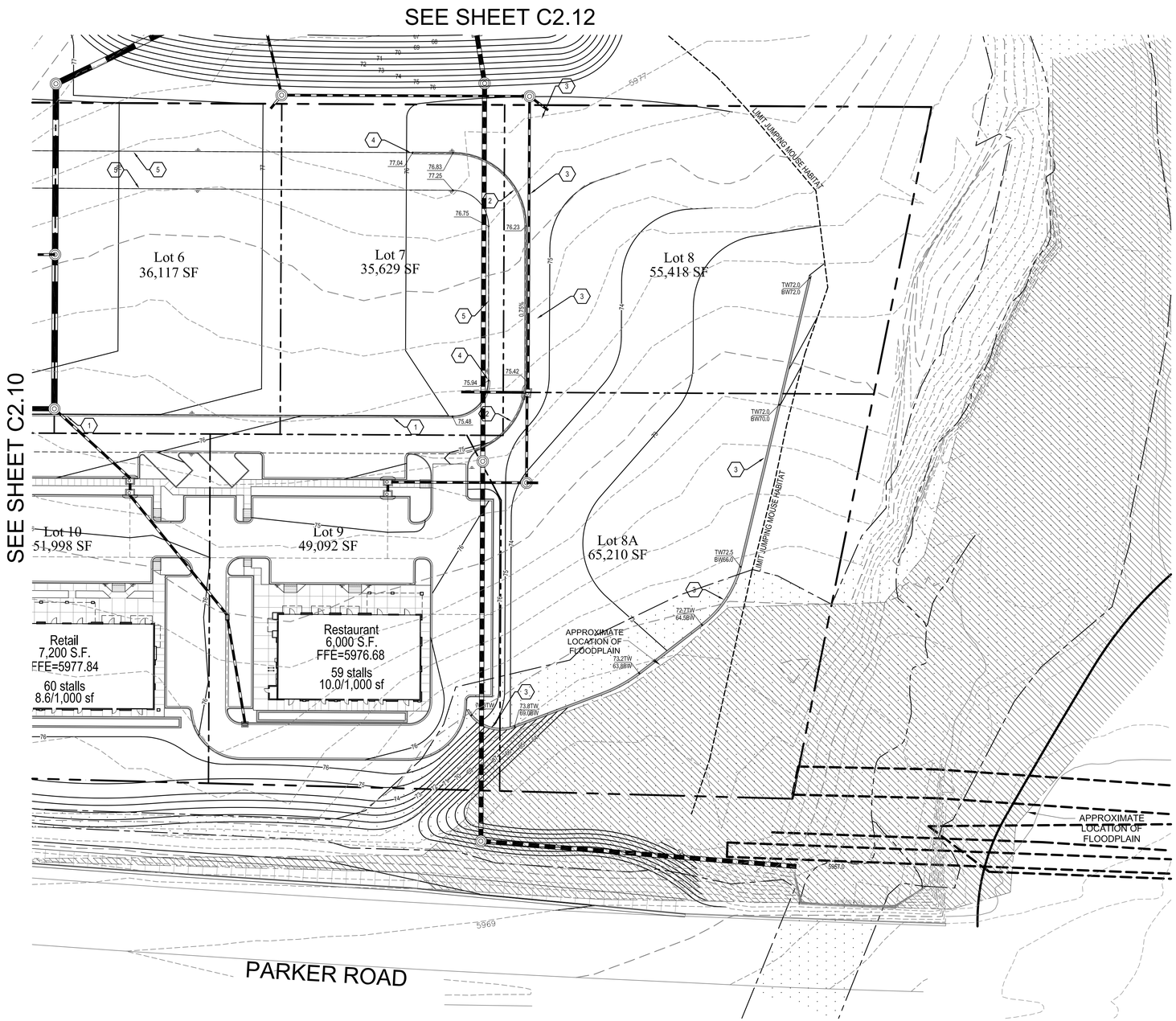
SHEET
C2.10



SEE SHEET C2.13 FOR DETAIL
GRADING ON LOTS 9 AND 10

CONSTRUCTION NOTES

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2. CONSTRUCT CONCRETE CURB AND GUTTER WITH CATCH PAN. RE: SHEET C5.90.
3. CONSTRUCT MODULAR BLOCK RETAINING WALL. WALL AND SAFETY RAIL, DESIGN BUILD BY CONTRACTOR.
4. END CURB AND GUTTER.
5. EDGE OF ASPHALT. NO CURB.

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
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GRADING PLAN SOUTH

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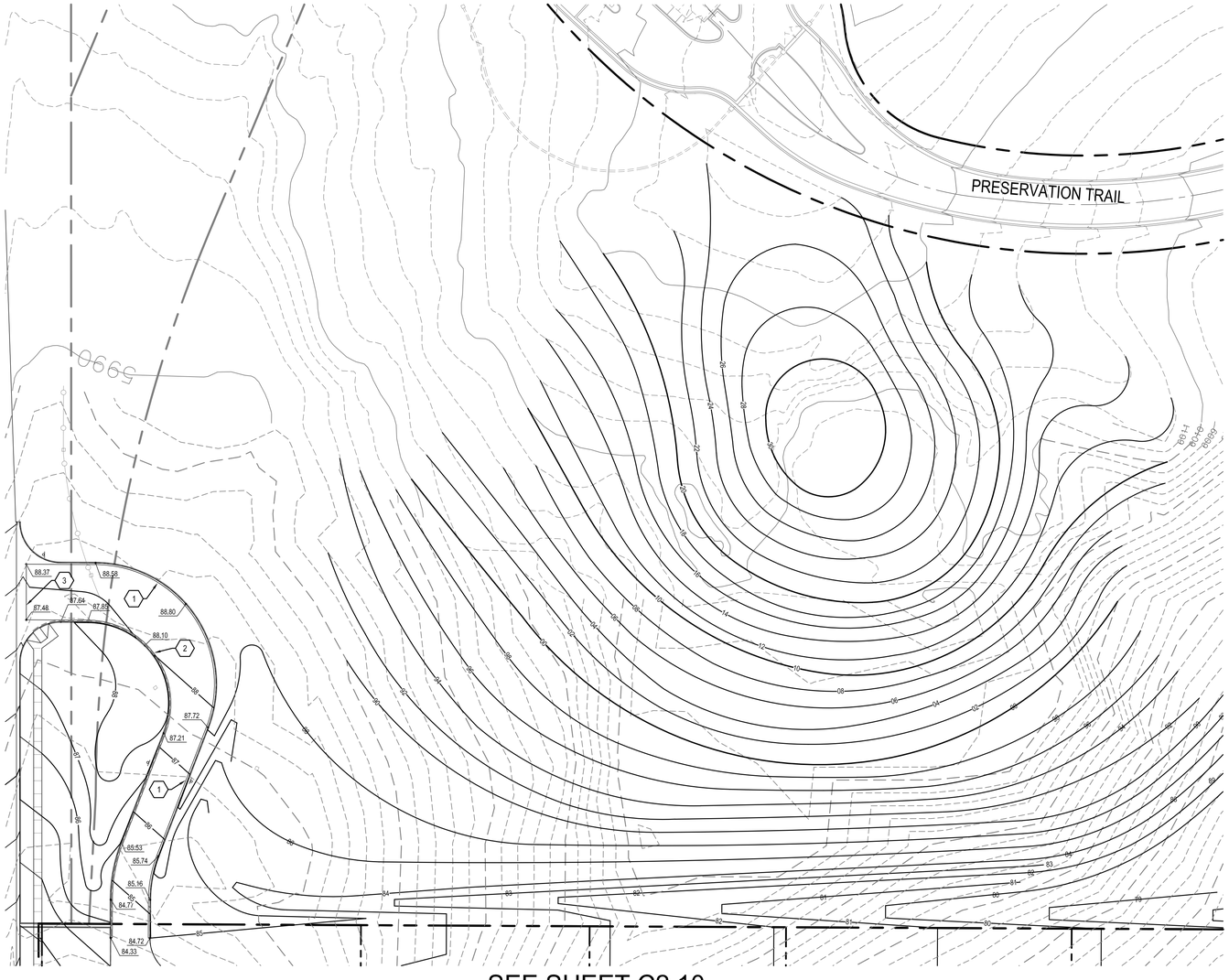
SHEET
C2.11



GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
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3. CONSTRUCT 8' WIDE CONCRETE CROSS PAN.

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
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BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83)
ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-238-5255

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

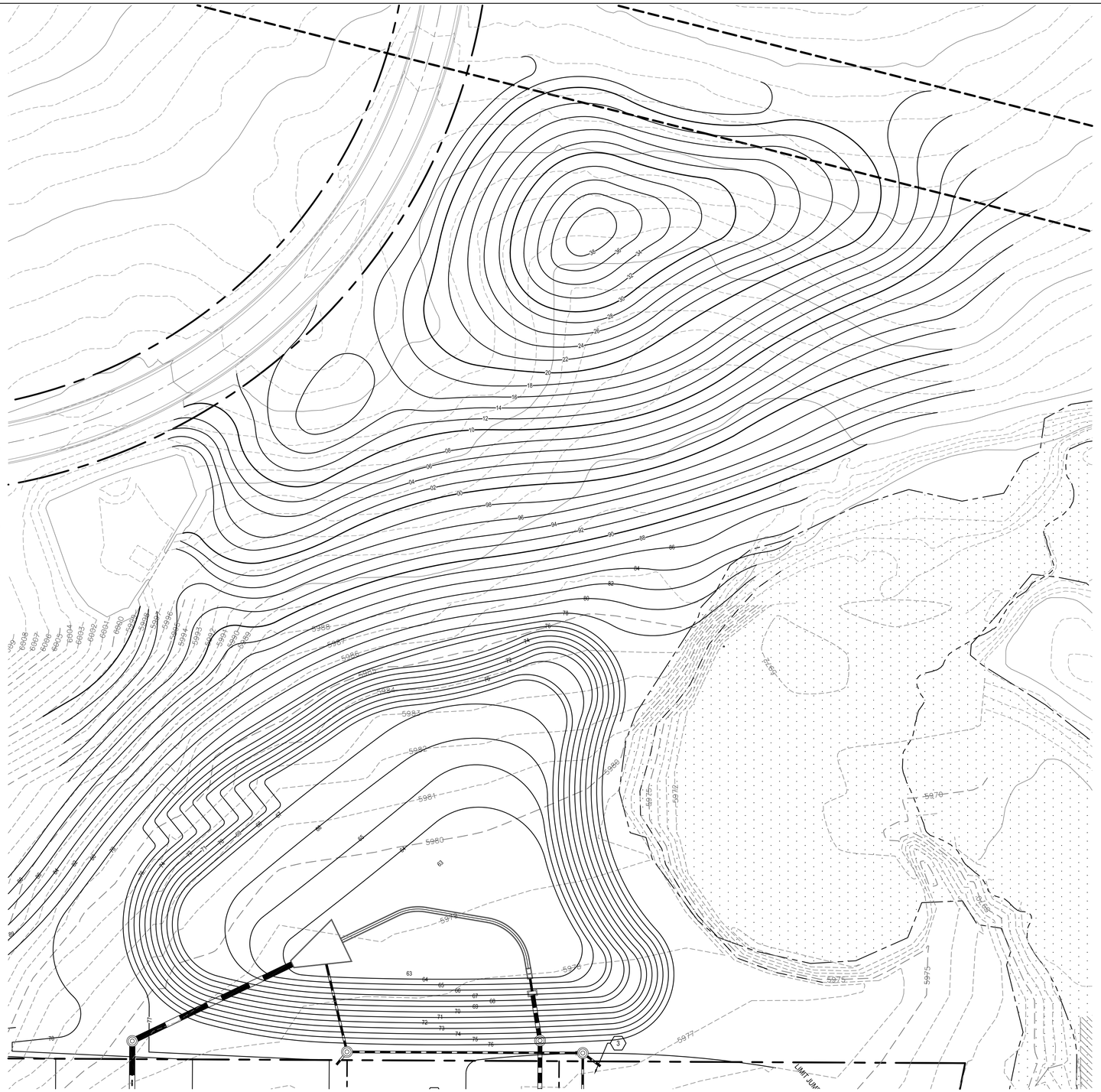
REVISIONS		
△	DATE	DESCRIPTION
	10/24/17	INITIAL SUBMITTAL

OFFSITE GRADING PLAN NORTH

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C2.12



GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

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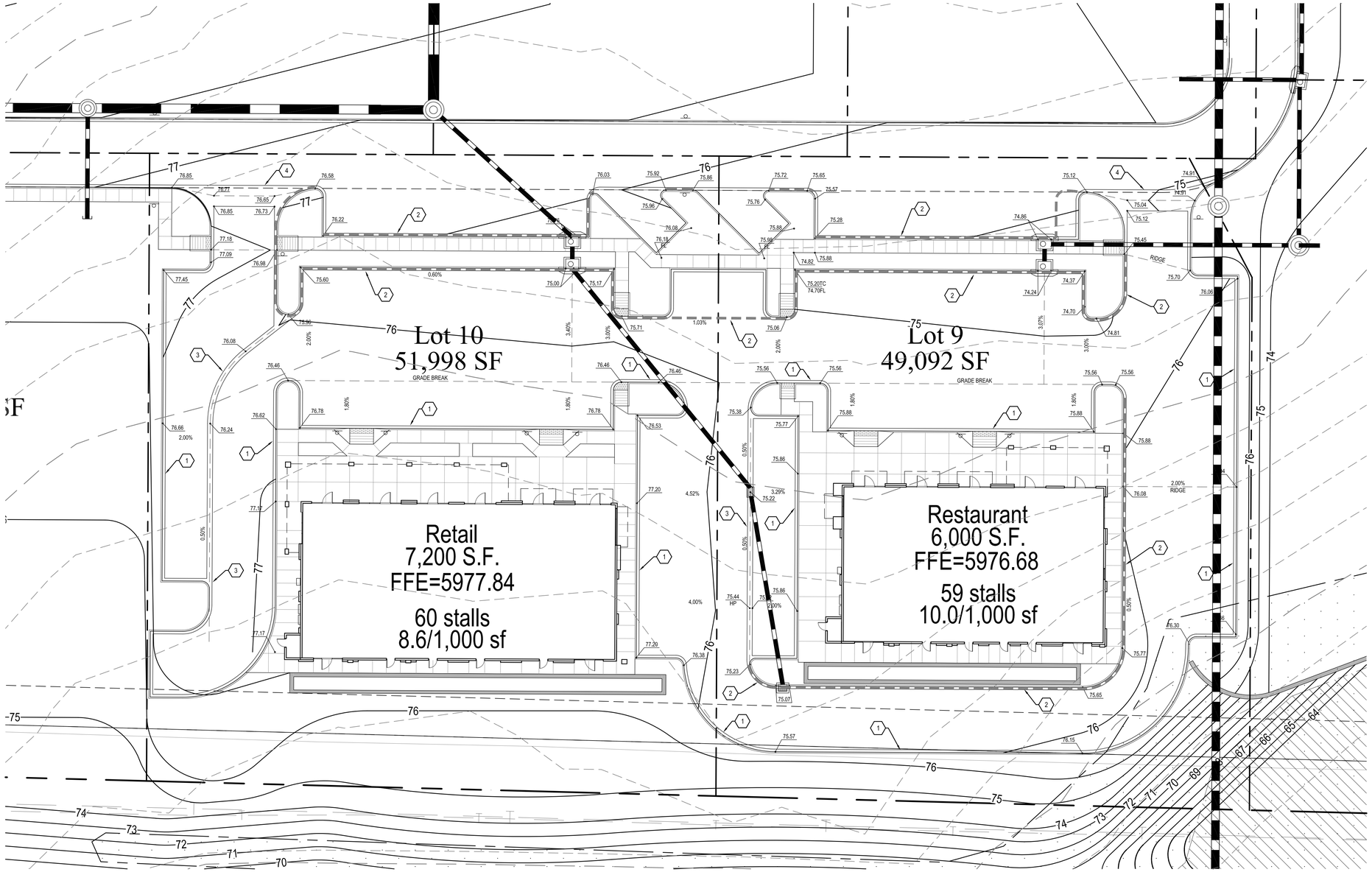
REVISIONS

OFFSITE GRADING PLAN SOUTH

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C2.13



GRAPHIC SCALE

(IN FEET)
1 inch = 20ft.

CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE CURB AND GUTTER WITH SPILL PAN. RE: SHEET C5.90.
2. CONSTRUCT CONCRETE CURB AND GUTTER WITH CATCH PAN. RE: SHEET C5.90.
3. CONSTRUCT 2' WIDE CONCRETE TRICKLE PAN. RE: SHEET C5.90.
4. CONSTRUCT 8' WIDE CONCRETE CROSS PAN.

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REVISIONS

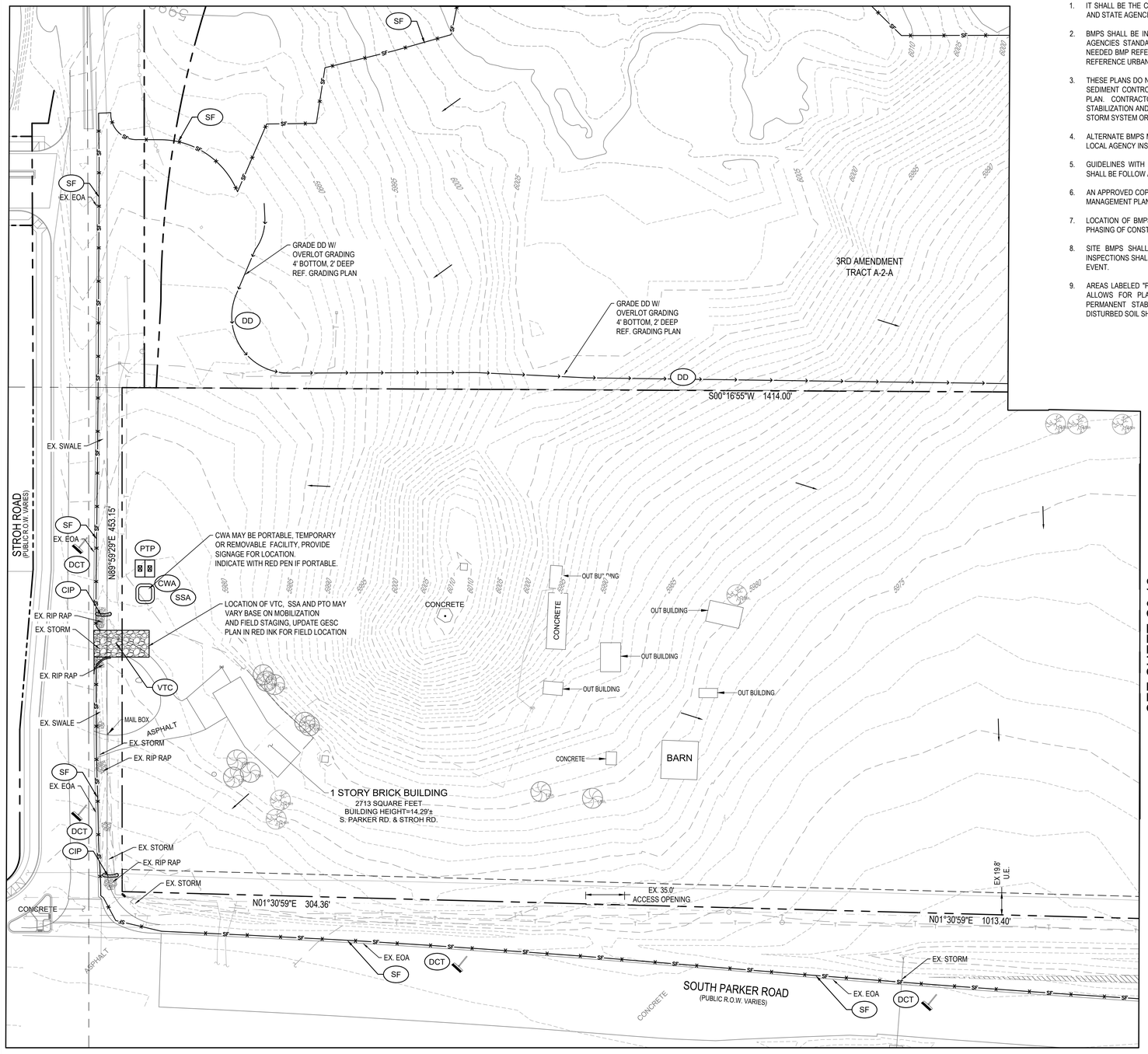
LOTS 9 AND 10 DETAIL GRADING PLAN

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C2.14

SEE SHEET C3.11



SEE SHEET C3.12

GRADING EROSION AND SEDIMENT CONTROL NOTES

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LEGEND

	PROPERTY LINE
CF	CONSTRUCTION FENCE
CWA	CONCRETE WASHOUT AREA
DD	DIVERSION DITCH
DTC	DEBRIS TRASH CONTROL
ECB	EROSION CONTROL BLANKET
IPCOS	INLET PROTECTION, CURB ON STUMP, TYPE R INLET
MWP	MASONRY WORK PROTECTION
PTP	PORTABLE TOILET PROTECTION
RS	ROCK SOCK
SCL	SEDIMENT CONTROL LOGS
SF	PROPOSED SILT FENCE
SMC	SEEDING, MULCHING AND CRIMPING
SR	SURFACE ROUGHENING
SSA	STABILIZED STAGING AREA
TSB	TEMPORARY SEDIMENT BASIN
VTC	VEHICLE TRACKING CONTROL
CIP	VEHCULVERT INLET PROTECTIONROL
RS	ROCK SOCK

TOWN OF PARKER NOTES

1. ALL SILT FENCES MUST BE INSTALLED ON 5-FOOT CENTERS.
2. THE TRUE LOCATION OF THE CWA MAY BE DETERMINED BY THE TOWN AND ECS.
3. THE TRUE LOCATION OF THE PTP MAY BE DETERMINED BY THE TOWN AND ECS.
4. PLACE SCL IMMEDIATELY BEHIND CURB AND SIDEWALK DOWN GRADIENT OF DISTURBED AREAS. USE 12" LOGS.
5. IF SF IS NOT INSTALLED ON THE BACK OF CURB, ECB MAY BE NECESSARY IN THE GAP.
6. ALL SOILED STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVE AISLES, ETC., MUST BE THOROUGHLY CLEANED BY 5 PM EACH WORK DAY AND DURING THE DAY WHEN LEVEL OF SOIL EXCEEDS A LOW LEVEL AS DETERMINED BY THE TOWNS INSPECTOR.

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GRAPHIC SCALE
-50 0 25 50 100
(IN FEET)
1 inch = 80 ft.

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Consulting Civil Engineers
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REVISIONS

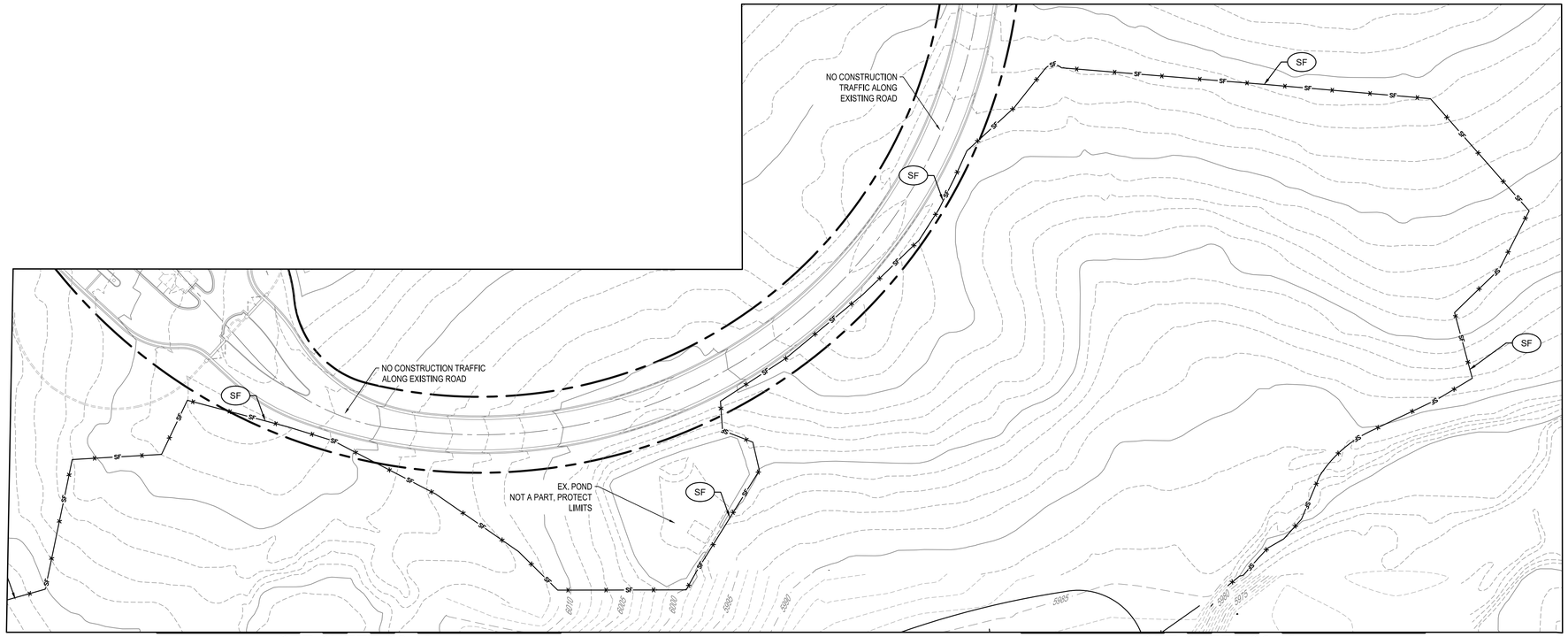
DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

INITIAL CBMP PLAN - NORTH

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C3.10



SEE SHEET C3.10

SEE SHEET C3.12

LEGEND

	PROPERTY LINE
CF	CONSTRUCTION FENCE
CWA	CONCRETE WASHOUT AREA
DD	DIVERSION DITCH
DTC	DEBRIS TRASH CONTROL
ECB	EROSION CONTROL BLANKET
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GRAPHIC SCALE

-50 0 25 50 100

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REVISIONS

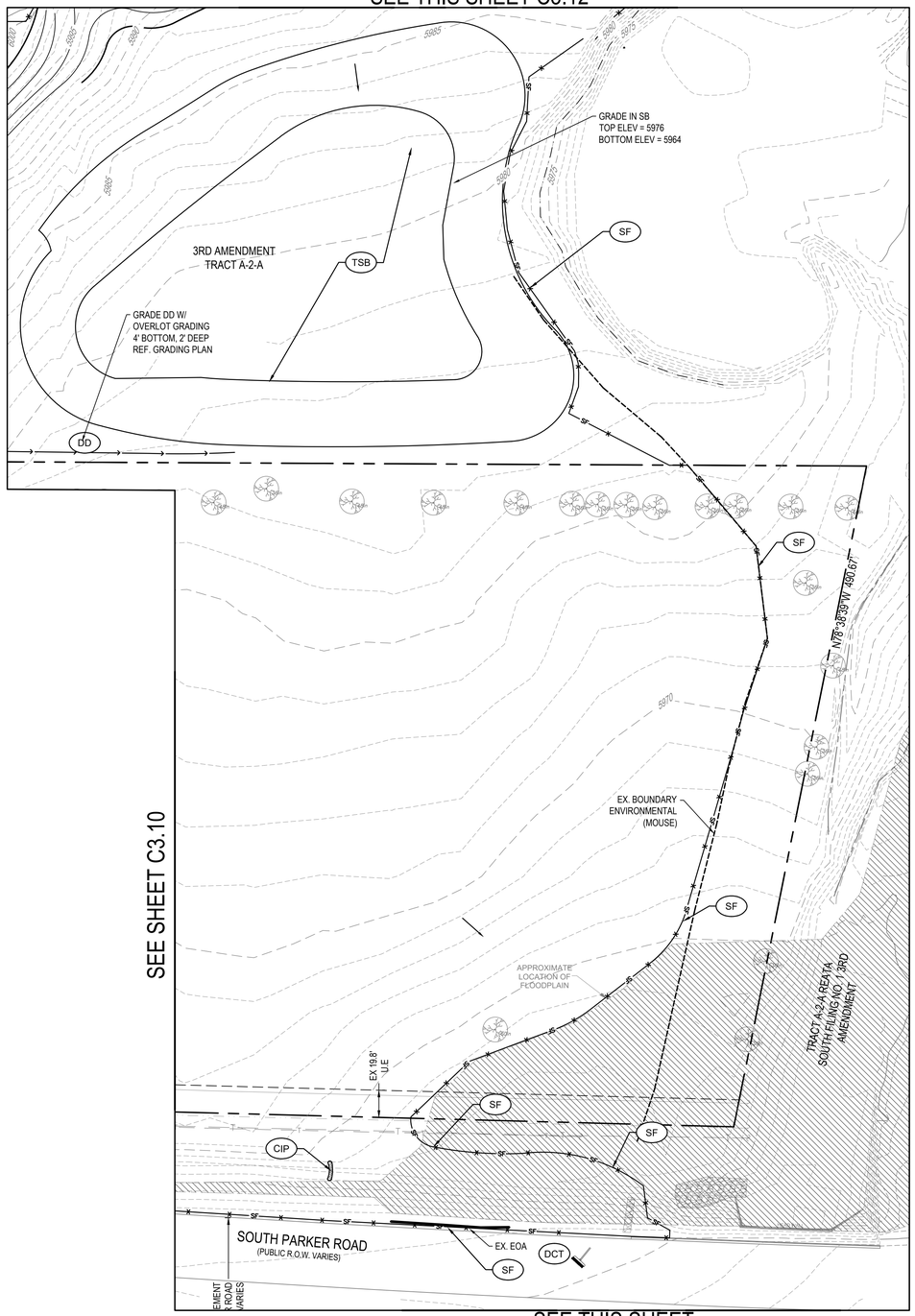
INITIAL CBMP PLAN - NORTH

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C3.11

SEE THIS SHEET C3.12



SEE SHEET C3.10

SEE THIS SHEET

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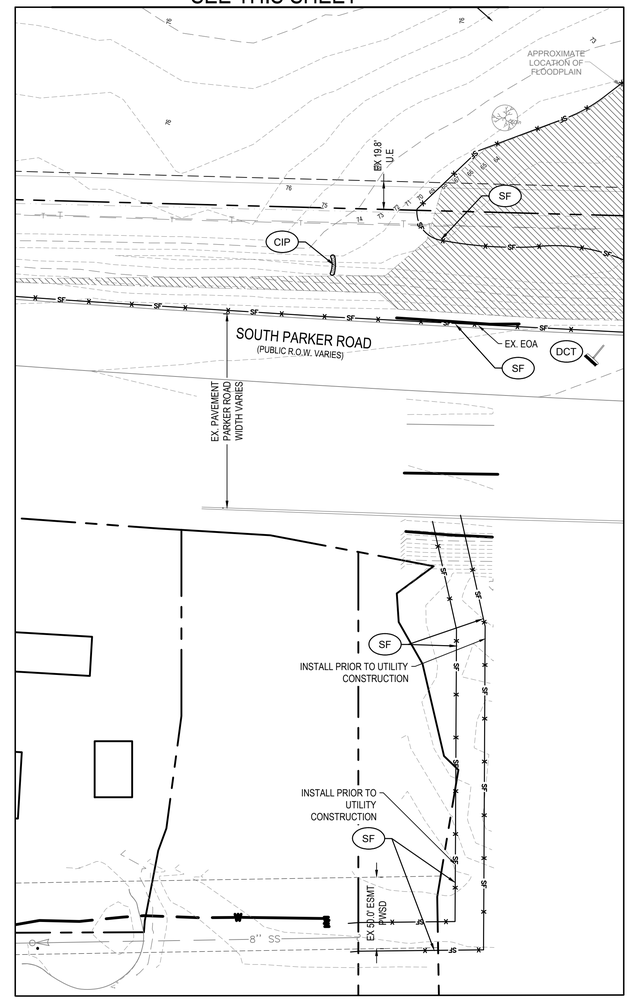

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GRAPHIC SCALE

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PREPARED UNDER THE DIRECT SUPERVISION OF
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COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

REVISIONS

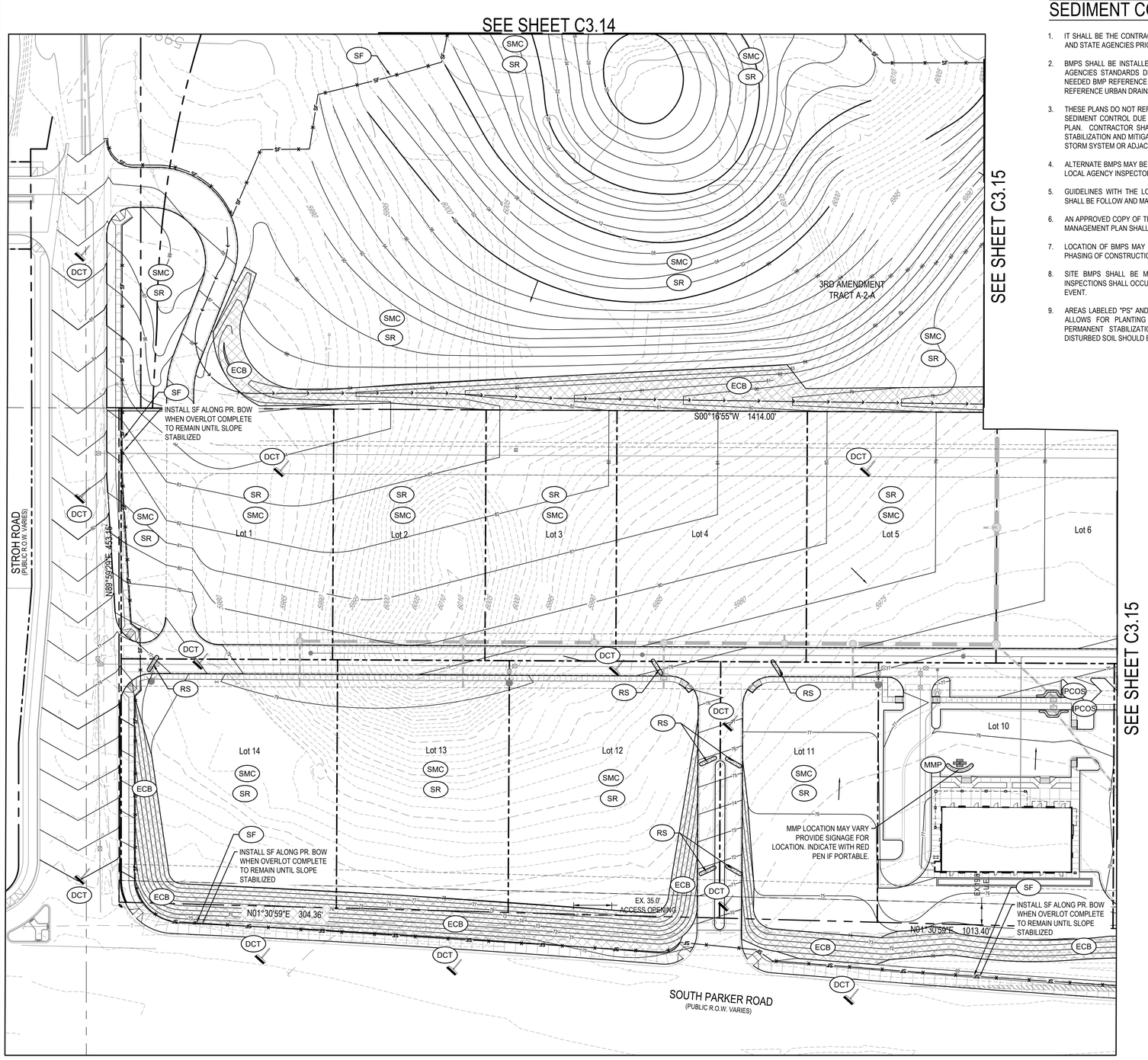
DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

INITIAL CBMP PLAN - SOUTH

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C3.12



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DD	DIVERSION DITCH
DTC	DEBRIS TRASH CONTROL
ECB	EROSION CONTROL BLANKET
IPCOS	INLET PROTECTION, CURB ON STUMP, TYPE R INLET
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SCL	SEDIMENT CONTROL LOGS
SF	PROPOSED SILT FENCE
SMC	SEEDING, MULCHING AND CRIMPING
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10/24/17	INITIAL SUBMITTAL

REVISIONS

INTERIM / FINAL CBMP PLAN

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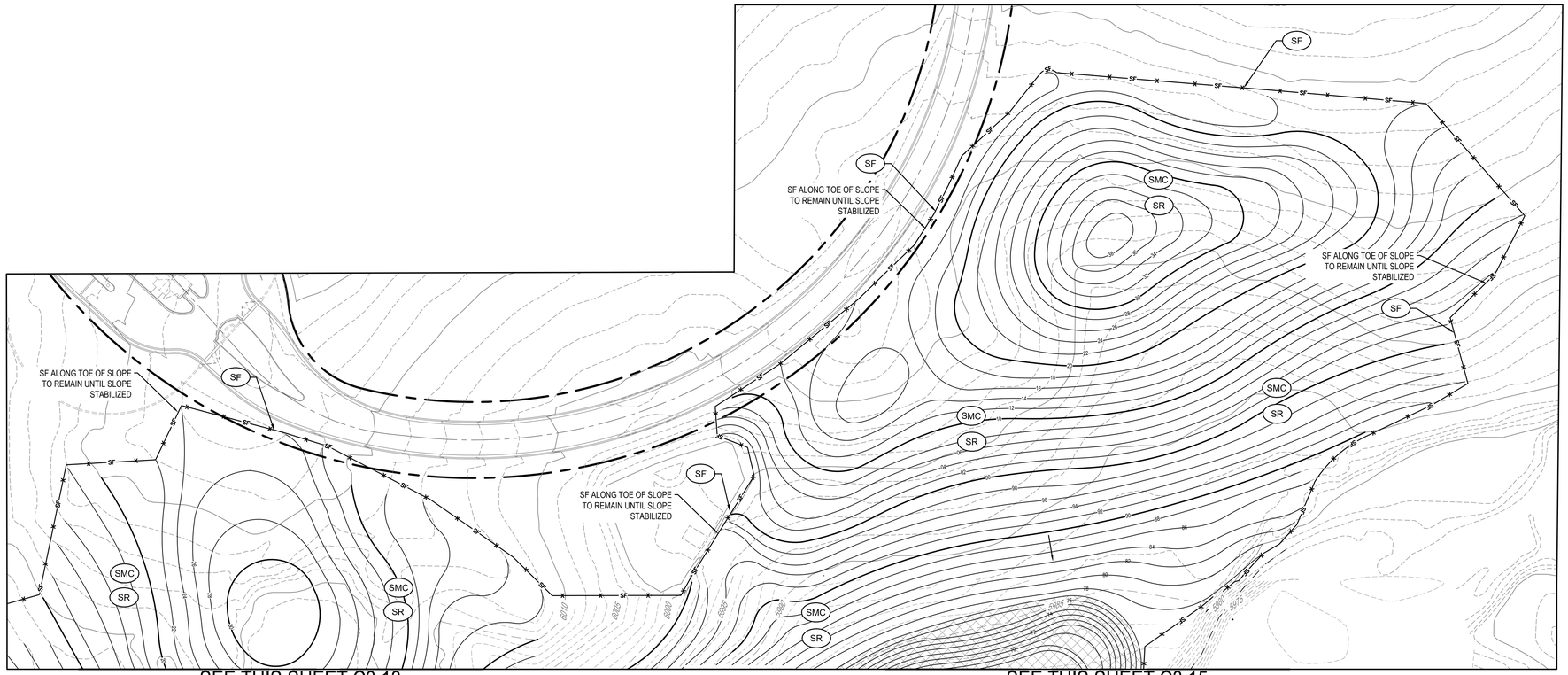
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C3.13



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DATE	DESCRIPTION
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INTERIM / FINAL CBMP PLAN

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LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
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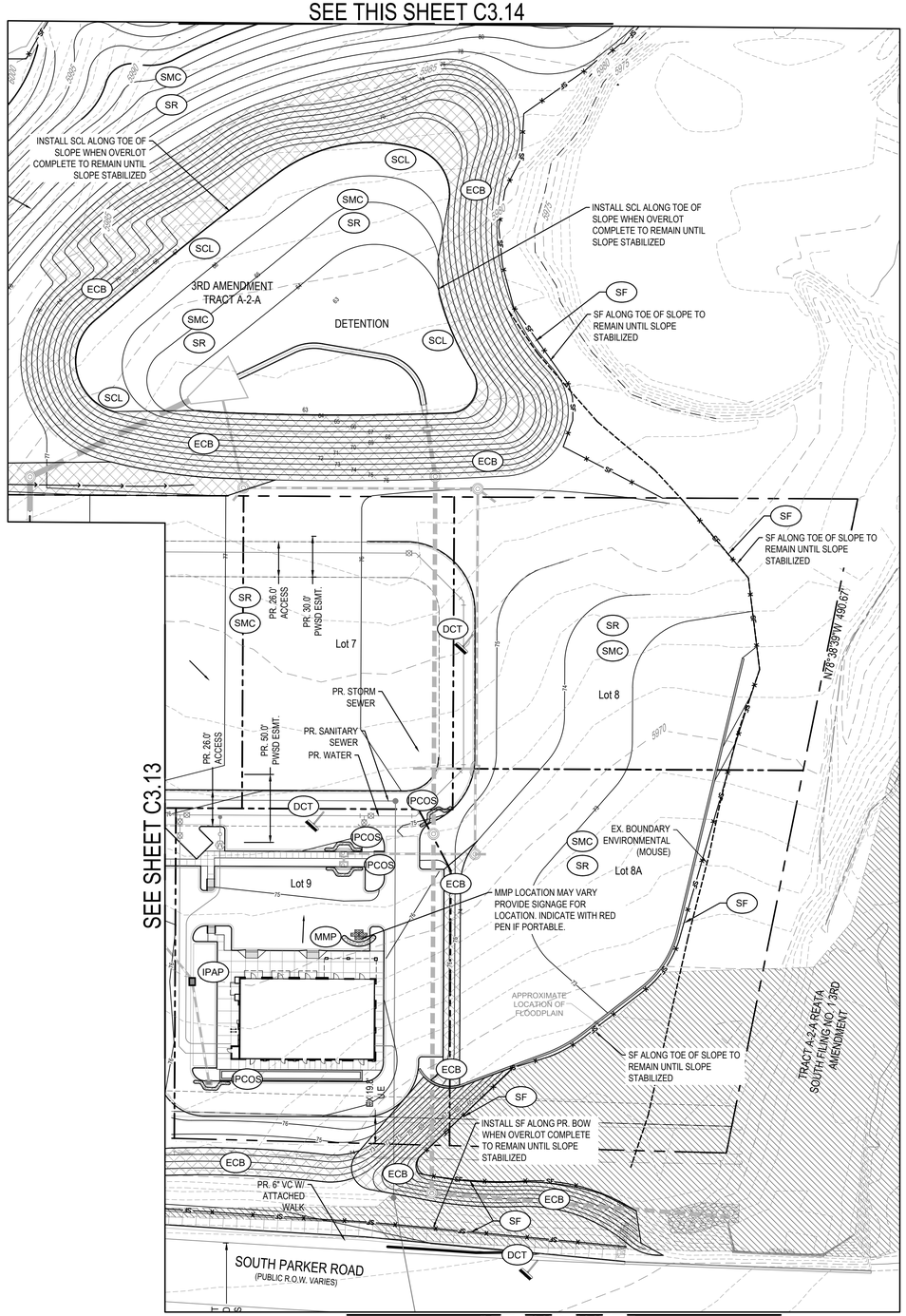
SEE THIS SHEET C3.14



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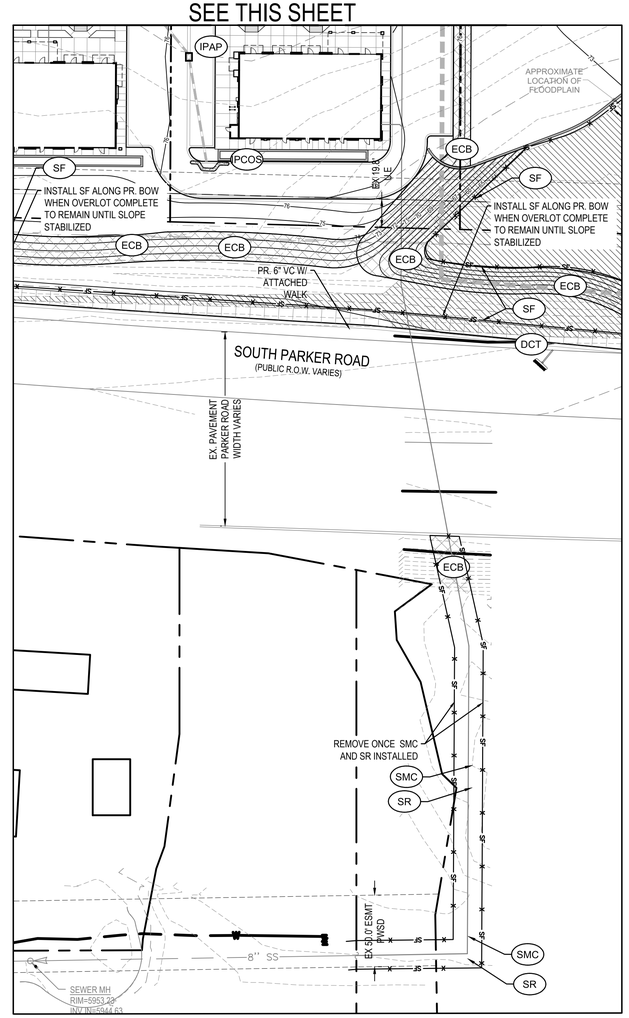

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design by:	JWD
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SHEET
C3.15

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

1. GRADING, DRILLING, CLEARING, EXCAVATING, BACK-FILLING, SOIL STRIPPING, SOIL IMPORTING EXPORTING OR ANY OTHER FORM OF SOIL DISTURBANCE SHALL NOT COMMENCE UNTIL A TOWN OF PARKER GRADING/EXCAVATION PERMIT HAS BEEN ISSUED.
2. THE TOWN OF PARKER GRADING/EXCAVATION PERMIT IS VALID FOR A PERIOD OF 2 YEARS FROM THE DATE OF ISSUANCE. ANY LAPSE IN PERMIT COVERAGE MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND/OR FINES.
3. ALL EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSTALLED ACCORDING TO THE CBMP PLAN INSTALLATION NOTES AND DETAILS AND/OR PERMITTED VARIANCES. ALL MATERIALS, WORKMANSHIP AND INSTALLATION METHODS ARE SUBJECT TO INSPECTION BY THE TOWN'S INSPECTOR. THE TOWN OF PARKER RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS, WORKMANSHIP AND/OR INSTALLATION METHODS THAT DO NOT CONFORM TO THE CBMP PLAN AND/OR PERMITTED VARIANCES.
4. THE EROSION CONTROL SUPERVISOR SHALL REVISE OR MODIFY THE EROSION AND SEDIMENT CONTROL MEASURES IF IT BECOMES APPARENT THAT THE ORIGINAL PLAN IS INADEQUATE, OR AS A RESULT OF DEFICIENCIES IDENTIFIED DURING INSPECTIONS PERFORMED BY THE TOWN'S INSPECTOR.
5. THE INSTALLATION OF ADDITIONAL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) MAY BE REQUIRED OF THE EROSION CONTROL SUPERVISOR, PROPERTY OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS AT ANY TIME THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION AND/OR SUBSEQUENT REVEGETATION PERIOD.
6. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE NOTICE OF NUISANCE REPORTS (a.k.a, CONSTRUCTION SITE RUNOFF CONTROL INSPECTION REPORTS), APPROVED CBMP PLAN(S) AND THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL.
7. THE EROSION CONTROL SUPERVISOR SHALL BE READILY AVAILABLE TO DISCUSS AND CORRECT ANY PROBLEMS THAT MAY ARISE RELATING TO GRADING, EROSION AND SEDIMENT CONTROL.
8. IF IT IS ANTICIPATED THAT ALL OR A PORTION OF THE PROJECT WILL OCCUR DURING SEASONS SUSCEPTIBLE TO SNOWFALL, THE USE OF CERTAIN EROSION AND SEDIMENT CONTROL BMPS ADJACENT TO PUBLIC ROADWAYS MAY NEED TO BE RECONSIDERED DUE TO THE NATURE OF SNOW REMOVAL OPERATIONS. AN APPROVED ALTERNATIVE MAY BE NECESSARY TO MINIMIZE DAMAGE FROM THESE OPERATIONS. THE TOWN OF PARKER ASSUMES NO RESPONSIBILITY FOR DAMAGE TO ANY BMPS AS A RESULT OF SNOW PLOWING AND SNOW REMOVAL.
9. AREAS OF LAND DISTURBANCE EQUAL TO 40 ACRES OR GREATER SHALL NOT BE EXPOSED FOR MORE THAN 30 CONSECUTIVE DAYS WITHOUT TEMPORARY OR PERMANENT STABILIZATION.
10. AUTHORIZED EXEMPTIONS MAY BE ALLOWED TO THE 40-ACRE LIMIT FOR REMOVAL AND STORAGE OF CUT MATERIAL WHERE (A) GEOTECHNICAL LIMITATIONS RESTRICT THE USE OF TEMPORARY OR PERMANENT STABILIZATION OF THE STORED MATERIAL (E.G., SWELLING SOILS, ROCK) AND (B) WHEN THE OWNER CAN DEMONSTRATE THAT THE 40-ACRE LIMIT IS PHYSICALLY AND/OR FINANCIALLY IMPRACTICABLE. FOR SITES GRANTED THIS EXEMPTION, A PHASING AND EARTHWORK QUANTITIES PLAN SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT AND APPROVED PRIOR TO THE COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES. SUBMITTAL REQUIREMENTS INCLUDE:
    - (I) PHASING PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.
    - (II) EARTHWORK QUANTITY PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.
    - (III) BMP PLAN SHOWING SPECIFIC EROSION AND SEDIMENT CONTROLS FOR EACH PHASE.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 1 OF 4 | Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

11. ANY EROSION AND SEDIMENT CONTROL BMPS THAT ARE DAMAGED OR IN NEED OF MAINTENANCE OR REPLACEMENT SHALL BE CORRECTED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
12. ALL DEFICIENCIES LISTED ON THE NOTICE OF NUISANCE FORM SHALL BE COMPLETED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES. ALL REQUIRED ACTIONS MUST BE IN THE CORRECTED FORM DURING THE FOLLOW-UP INSPECTION.
13. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY.
14. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS.
15. ALL TRASH RECEPTACLES ON SITE SHALL BE FREE OF HOLES, CRACKS, GAPS, AND/OR OTHER PERMEABLE AREAS THAT MAY ALLOW FOR THE DISCHARGE OF POLLUTANTS.
16. ALL TRASH RECEPTACLES ON SITE SHALL BE EMPTIED AT A FREQUENCY AS TO ENSURE THAT THE TRASH REMAINS CONFINED TO THE RECEPTACLE.
17. ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.
18. ALL PORTABLE TOILETS SHALL BE STAKED DOWN AT ALL TIMES USING U-SHAPED REBAR STAKES. THE PORTABLE TOILETS SHALL ALSO BE PLACED A MINIMUM DISTANCE OF 10 FEET FROM ALL IMPERVIOUS SURFACES, INCLUDING, BUT NOT LIMITED TO STREETS CURBS, GUTTERS, SIDEWALKS AND PARKING LOTS.
19. THE EROSION CONTROL SUPERVISOR SHALL MAINTAIN STRICT ADHERENCE TO THE LIMITS OF CONSTRUCTION AND PROPERTY LIMITS FOR ALL MATERIALS, VEHICLES AND EQUIPMENT. FAILURE TO ABIDE BY THIS REQUIREMENT MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.
20. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE THROUGH THE APPROVED ACCESS POINT(S). A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL APPROVED ACCESS POINTS TO THE SITE. EXCEPTIONS MAY BE CONSIDERED FOR CONSTRUCTION ACTIVITY OCCURRING IMMEDIATELY ADJACENT TO PAVED AREAS AND WHERE ALTERNATIVE BMP'S ARE IMPLEMENTED. SUCH ACTIVITY MAY INCLUDE, BUT NOT BE LIMITED TO RESIDENTIAL CONSTRUCTION, UTILITY CONSTRUCTION, ETC.
21. NO PERMANENT SLOPES GREATER THAN 3:1 ARE ALLOWED.
22. ALL PERMANENT SLOPES STEEPER THAN 4:1 (HORIZONTAL TO VERTICAL) SHALL REQUIRE EROSION CONTROL BLANKET(S). TEMPORARY SLOPES IN TEMPORARY SEDIMENT BASINS THAT ARE STEEPER THAN 4:1 MAY REQUIRE EROSION CONTROL BLANKETS.
23. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ADVERSE IMPACTS THAT OCCUR TO NEIGHBORING PROPERTIES. THE EROSION CONTROL SUPERVISOR MUST OBTAIN PERMISSION FROM LAND OWNERS PRIOR TO ENTERING SUCH PROPERTY.
24. A WATER SOURCE SHALL BE AVAILABLE ONSITE DURING CONSTRUCTION ACTIVITIES, AND UTILIZED TO MINIMIZE FUGITIVE DUST. ALTERNATIVE BMPS MAY BE REQUIRED IF INITIAL ATTEMPTS TO SUPPRESS DUST ARE UNSUCCESSFUL.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 2 OF 4 | Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

25. ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS, INCLUDING CONCRETE WASHOUT WATER, WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDES BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER, DRY GULLIES OR STORM SEWERS LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) PER 25-8-601, AND THE TOWN OF PARKER. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 116) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AND THE CDPHE. SPILLS THAT POSE AN IMMEDIATE SAFETY HAZARD SHALL BE REPORTED TO 911.
26. THE CLEANING OF CONCRETE TRUCKS AND EQUIPMENT IS RESTRICTED TO THE APPROVED CONCRETE WASHOUT LOCATION ON THE JOB SITE. CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO STATE WATERS OR STORM SEWER SYSTEMS.
27. VEHICLE AND EQUIPMENT DEGREASING IS PROHIBITED ON THE JOB SITE.
28. ALL DEWATERING ON SITE SHALL BE COORDINATED WITH THE TOWN'S INSPECTOR. A STATE PERMIT MAY BE REQUIRED FOR DEWATERING. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR OBTAINING AND ADHERING TO ALL APPLICABLE PERMITS.
29. HYDRAULIC SEEDING AND/OR HYDRAULIC MULCHING ARE ONLY ALLOWED IN AREAS UNDER TEMPORARY OR PERMANENT IRRIGATION OR FOR THE PURPOSE OF TEMPORARY SOIL STABILIZATION.
30. APPLICABLE CONSTRUCTION BMPS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL ALL LANDSCAPING HAS BEEN INSTALLED AND THE DESIRABLE VEGETATION HAS REACHED A POINT IN WHICH EROSION AND SEDIMENTATION IS NO LONGER A CONCERN AS DETERMINED BY THE TOWN'S INSPECTOR.
31. GRADING SECURITY RELEASE REQUIREMENTS:
    1) DEVELOPABLE PROPERTY: IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H OR ITEM I (BELOW).
        - A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
        - B. UNIFORM PERENNIAL VEGETATION COVER HAS BEEN ESTABLISHED WITH AN INDIVIDUAL PLANT DENSITY OF AT LEAST SEVENTY PERCENT (70%) OF PRE-DISTURBANCE LEVELS.
        - C. ALL CBMPS HAVE BEEN PROPERLY REMOVED FROM THE SITE.
        - D. IF ANY EROSION IS PRESENT, IT IS INSIGNIFICANT AND IS NOT LEAVING THE SITE AND/OR LEADING INTO ANY ON-SITE DRAINAGE INFRASTRUCTURE THAT MAY CONVEY SURFACE WATER OFF SITE.
        - E. WEEDS REPRESENT NO MORE THAN FIFTY PERCENT (50%) OF THE TOTAL VEGETATION ON THE SITE.
        - F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
        - G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
        - H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATIONS PRESENT.
        - I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED

    FOR THE APPLICABLE SITE OR ASSIGNMENT AS PROVIDED BY SECTION 11.10.150 OF THE TOWN OF PARKER MUNICIPAL CODE. IT IS THE PROPERTY OWNER'S OBLIGATION AT THE TIME OF CLOSING TO ENSURE THAT THE NEW SITE OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 3 OF 4 | Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

2) NONDEVELOPABLE PROPERTY: IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H AND I, OR ITEMS I AND J (BELOW).
    - A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
    - B. ALL CBMPS HAVE BEEN PROPERLY REMOVED FROM THE SITE.
    - C. EROSION IS NEGLIGIBLE, IF EVEN PRESENT.
    - D. THE VEGETATION REPRESENTS A PERENNIAL STAND OF A DENSE, UNIFORM SURFACE OF GRASS WITH NO AREA GREATER THAN ONE (1) SQUARE FOOT THAT IS BARREN OF DESIRABLE VEGETATION. INFREQUENT, WIDELY SCATTERED AREAS WHERE NATIVE VEGETATION HAS NOT YET TAKEN HOLD MAY QUALIFY FOR ACCEPTANCE AT THE DISCRETION OF THE TOWN.
    - E. WEEDS REPRESENT NO MORE THAN TEN PERCENT (10%) OF THE TOTAL VEGETATION ON SITE.
    - F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
    - G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
    - H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATIONS PRESENT.
    - I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED FOR THE APPLICABLE SITE OR THE GRADING PERMIT HAS BEEN ASSIGNED AS PROVIDED BY SECTION 11.10.150 OF THE TOWN OF PARKER MUNICIPAL CODE. IT IS THE PROPERTY OWNER'S OBLIGATION, AT THE TIME OF CLOSING ON THE SALE OF A SITE THAT IS SUBJECT TO A GRADING PERMIT, TO ENSURE THAT THE NEW PROPERTY OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.
    - J. ALL KNOWN DRAINAGE ISSUES ASSOCIATED WITH THE PROJECT HAVE BEEN MITIGATED AND A SUFFICIENT AMOUNT OF TIME HAS PASSED TO ENSURE THAT SUCH ISSUES HAVE BEEN CORRECTED. THIS REQUIREMENT DOES NOT INCLUDE THOSE DRAINAGE ISSUES ORIGINATING ON RESIDENTIAL LOTS.

(D) NOXIOUS WEEDS MUST BE CONTROLLED AS PROVIDED UNDER STATE LAW AND SECTION 6.01.260 OF THE TOWN OF PARKER MUNICIPAL CODE. FAILURE TO CONTROL NOXIOUS WEEDS ON THE SITE MAY CONSTITUTE A NUISANCE, SUBJECT TO THE PENALTIES CONTAINED IN THE CODE.

DEFINITIONS:

DEVELOPABLE PROPERTY MEANS ANY LAND THAT HAS BEEN GRADED AND IS PART OF A PLATTED LOT OR PLATTED TRACT OF RECORD, THAT WAS PLATTED FOR FUTURE DEVELOPMENT, INCLUDING RESIDENTIAL HOME CONSTRUCTION OR PUBLIC IMPROVEMENTS.

NONDEVELOPABLE PROPERTY MEANS LAND THAT HAS BEEN GRADED AND WILL NOT BE FURTHER DISTURBED AS PART OF ANY FUTURE DEVELOPMENT. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO: PARKS, OPEN SPACE, HOMEOWNER ASSOCIATION OR BUSINESS ASSOCIATION PLATTED TRACTS, DETENTION PONDS AND DRAINAGEWAYS.

32. FAILURE TO COMPLY WITH ANY OF THE REQUIREMENTS DESCRIBED IN THIS SECTION MAY RESULT IN THE ISSUANCE OF: A NOTICE OF INTENT TO ISSUE A STOP WORK ORDER, A STOP WORK ORDER AND/OR THE REMEDIES/PENALTIES DESCRIBED IN CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE.
33. ANY PERSON CONVICTED OF VIOLATING ANY PROVISION OF THE TOWN OF PARKER, GRADING & EARTH MOVEMENT SECTION OF THE MUNICIPAL CODE SHALL BE GUILTY OF A MISDEMEANOR AND, UPON CONVICTION, BE PUNISHED BY A FINE OF NOT MORE THAN FOUR HUNDRED NINETY NINE DOLLARS ($499.00) FOR EACH SEPARATE OFFENSE. EACH DAY A VIOLATION CONTINUES SHALL CONSTITUTE A SEPARATE OFFENSE. THE TOWN ALSO MAY SEEK IN MUNICIPAL COURT AN INJUNCTION, ABATEMENT, RESTITUTION OR ANY OTHER REMEDY TO PREVENT, ENJOIN, ABATE OR REMOVE THE VIOLATION. A PERSON CONVICTED OF VIOLATING CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE SHALL BE LIABLE FOR THE ACTUAL COST OF REHABILITATING THE PROPERTY. THE COSTS MAY BE RECOVERED AS RESTITUTION IN MUNICIPAL COURT PROCEEDINGS OR IN A SEPARATE CIVIL ACTION.
34. THE TOWN OF PARKER RESERVES THE RIGHT TO ALLOW MODIFICATIONS AND SUBSTITUTIONS TO THE CBMP NOTES AND DETAILS WHEN SUCH MODIFICATIONS AND SUBSTITUTIONS OFFER THE SAME LEVEL OF PROTECTION AS THE STANDARD REQUIREMENTS BASED UPON THE SPECIFIC SITUATION, AS DETERMINED BY TOWN STAFF. DUE TO THE INSIGNIFICANCE AND REGULARITY OF SUCH MODIFICATIONS AND SUBSTITUTIONS, THE APPROVAL OF SUCH VARIATIONS MAY NOT BE DOCUMENTED BY TOWN STAFF.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 4 OF 4 | Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CD	CHECK DAM
CF	CONSTRUCTION FENCE
CP	CULVERT PROTECTION
CWA	CONCRETE WASHOUT AREA
D	DEWATERING
DD	DIVERSION DITCH
DP	DETENTION POND PROTECTION
DTC	DEBRIS TRASH CONTROL
ECB	EROSION CONTROL BLANKET
IPAN	INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT
IPAP	INLET PROTECTION FOR AREA INLETS IN PAVEMENT
IPCOG	INLET PROTECTION, CURB ON-GRADE, TYPE R INLET
IPCOS	INLET PROTECTION, CURB ON SUMP, TYPE R INLET

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | LEGEND 1 OF 3 | Oct. 2013

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LP	LOT PROTECTION
MWP	MASONRY WORK PROTECTION
PTP	PORTABLE TOILET PROTECTION
RCSC	ROUGH CUT STREET CONTROL
RS	ROCK SOCK
RSS	ROCK SOCK IN SWALE
SB	STRAW BALE
SCL	SEDIMENT CONTROL LOGS
SF	SILT FENCE
SMC	SEEDING, MULCHING AND CRIMPING
SR	SURFACE ROUGHING
SSA	STABILIZED STAGING AREA
STP	SIDEWALK TRANSITION PROTECTION

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | LEGEND 2 OF 3 | Oct. 2013

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TI	TEMPORARY IRRIGATION
TSB	TEMPORARY SEDIMENT BASIN
VTC	VEHICLE TRACKING CONTROL

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | LEGEND 3 OF 3 | Oct. 2013

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-9255

PREPARED UNDER THE DIRECT SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

REVISIONS

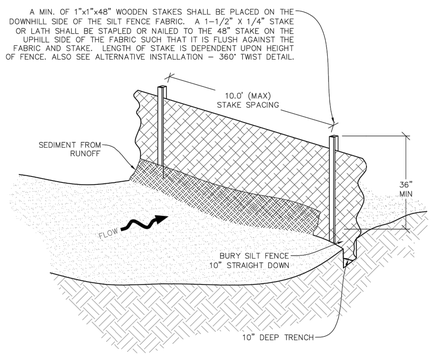
CBMP DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C3.90

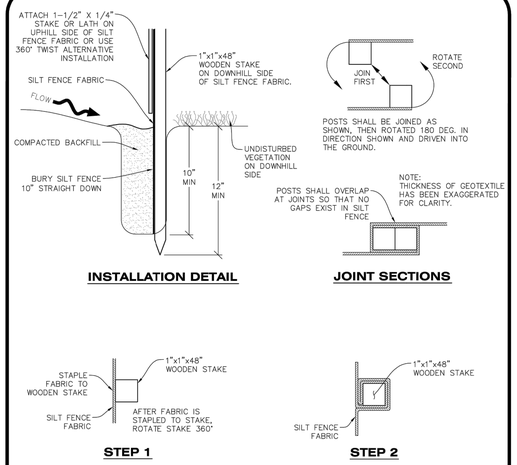
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



—X——X— SF **SILT FENCE**

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | SF 1 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



—X——X— SF **SILT FENCE**

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | SF 2 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

SILT FENCE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SILT FENCE.
2. ALL SILT FENCE SHALL BE INSTALLED IN GOOD CONDITION AND FREE OF ANY DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. A UNIFORM 10" DEEP ANCHOR TRENCH SHALL BE EXCAVATED USING A TRENCHER.
4. A 10" DEEP ANCHOR SLIT SHALL BE FORMED IF USING A STATIC SLICING METHOD.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH.
6. ANCHOR TRENCH SHALL BE GENERALLY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT OF THE SILT FENCE.
7. THE ANCHOR TRENCH SHALL BE THOROUGHLY BACKFILLED WITH SOIL THAT IS GENERALLY FREE OF ROCKS AND DEBRIS.
8. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UP-GRADIENT SIDE OF THE SILT FENCE.
9. STAKES SHALL BE POSITIONED ON THE DOWNHILL SIDE OF THE SILT FENCE FABRIC AND PLACED ON 10.0' CENTERS OR LESS. STAKES SHALL BE EMBEDDED A MINIMUM OF 12" INTO THE GROUND. A WOODEN LATH SHALL BE ATTACHED TO THE OPPOSING (UPHILL) SIDE OF THE STAKE FOR ADDED STRENGTH AND SUPPORT. THE LATH SHALL HAVE THE FOLLOWING DIMENSIONS: 1"x¼"x24".
10. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD NOT BE SIGNIFICANT SAGGING ALONG ANY PORTION OF THE SILT FENCE AFTER IT HAS BEEN ANCHORED TO THE STAKES.
11. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES AND LATHS USING STAPLES OR NAILS OF AN APPROXIMATE LENGTH. ENOUGH STAPLES AND NAILS SHOULD BE PLACED ALONG THE LATH TO ENSURE PROPER ATTACHMENT.
12. SILT FENCE FABRIC SHALL MEET THE FOLLOWING MANDATORY REQUIREMENTS:

PROPERTIES	TEST METHOD	MANDATORY REQUIREMENTS
GRAB TENSILE STRENGTH	ASTM D 4632	≥ 124 LBS
MULLEN BURST STRENGTH	ASTM D 3786	≥ 300 PSI
PUNCTURE STRENGTH	ASTM D 4833	≥ 60 LBS
TRAPEZOID TEAR STRENGTH	ASTM D 4533	≥ 65 LBS
UV RESISTANCE	ASTM D 4355	≥ 80% AT 500 HOURS OF UV EXPOSURE
FLOW RATE	ASTM D 4491	≥ 10 GAL/MIN/FT2

13. AN ORIGINAL PRODUCT SPECIFICATION SHEET FROM THE SILT FENCE MANUFACTURER SHALL BE MADE AVAILABLE AT THE REQUEST OF THE TOWN'S INSPECTOR. THE PRODUCT SPECIFICATION SHEET SHALL PROVIDE THE RESULTS FOR THE TEST METHODS ABOVE.
14. SILT FENCE JOINTS SHALL BE CONNECTED ACCORDING TO THE ATTACHED DRAWING.
15. SILT FENCE THAT IS INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN CONCRETE AND THE SILT FENCE. EROSION CONTROL BLANKETING (ECB) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | SF 3 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

SILT FENCE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SILT FENCE.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED REGULARLY.
3. SILT FENCE SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SILT FENCE SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR AND/OR DAMAGE.
5. WHEN THE SILT FENCE IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SILT FENCE MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | SF 4 OF 4 Oct. 2013

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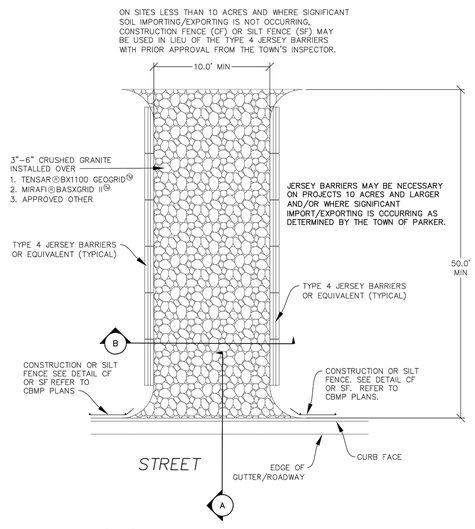
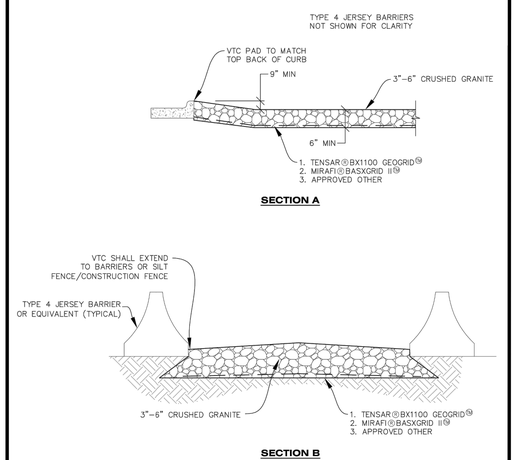


VTC **VEHICLE TRACKING CONTROL**

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | VTC 1 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



VTC **VEHICLE TRACKING CONTROL**

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | VTC 2 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

VEHICLE TRACKING CONTROL PAD INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF VEHICLE TRACKING CONTROL PAD(S).
2. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE THROUGH THE APPROVED ACCESS POINT(S). A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL APPROVED ACCESS POINTS TO THE SITE. EXCEPTIONS MAY BE CONSIDERED FOR CONSTRUCTION ACTIVITY OCCURRING IMMEDIATELY ADJACENT TO PAVED AREAS AND WHERE ALTERNATIVE BMP'S ARE IMPLEMENTED. SUCH ACTIVITY MAY INCLUDE, BUT NOT BE LIMITED TO RESIDENTIAL CONSTRUCTION, UTILITY CONSTRUCTION, ETC.
3. THE VEHICLE TRACKING CONTROL PAD(S) INDICATED ON CBMP PLAN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
4. VEHICLE TRACKING CONTROL PADS SHALL BE A MINIMUM OF 50-FEET LONG AND 10-FEET WIDE, UNLESS A VARIANCE HAS BEEN GRANTED BY THE TOWN'S INSPECTOR.
5. A BIAXIAL GEO-GRID SHALL BE PLACED UNDER THE VEHICLE TRACKING CONTROL PAD PRIOR TO THE PLACEMENT OF ROCK. THE AREA SHALL BE FREE FROM ANY VOIDS, ROCKS AND DEBRIS. THE BIAXIAL GEO-GRID SHALL BE TENSAR BX1100, MIRAFI BASXGRID II, OR AN APPROVED EQUAL. GEO-GRID SHALL BE PLACED, AND APPROPRIATELY OVERLAPPED IF NECESSARY, TO COVER THE ENTIRE LENGTH AND WIDTH OF THE VEHICLE TRACKING CONTROL PAD.
6. CRUSHED ROCK SHALL BE A MINIMUM OF 3-6" GRANITE WITH A FRACTURED FACE (ALL SIDES).

VEHICLE TRACKING CONTROL PAD INSTALLATION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE VEHICLE TRACKING CONTROL PAD.
2. WHEN THE VEHICLE TRACKING CONTROL PAD IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE VEHICLE TRACKING CONTROL PAD SHALL BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
3. THE VEHICLE TRACKING CONTROL PAD SHALL BE MAINTAINED SUCH THAT THE ROCK REMAINS RELATIVELY LOOSE AND ACCUMULATED MUD AND OTHER DEBRIS IS REGULARLY REMOVED.

Town of Parker COLORADO | **CBMP** CONSTRUCTION BEST MANAGEMENT PRACTICES | VTC 3 OF 3 Oct. 2013

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-9255

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

REVISIONS

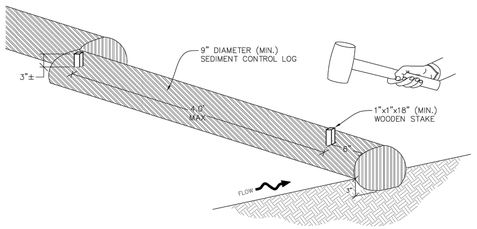
CBMP DETAILS

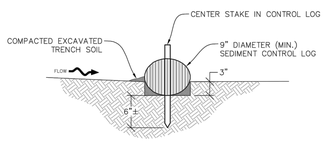
PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C3.91

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.





SECTION A

SCL **SEDIMENT CONTROL LOG**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SCL 1 OF 3 Oct. 2013

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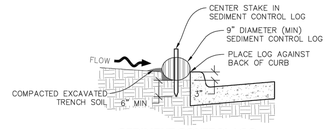
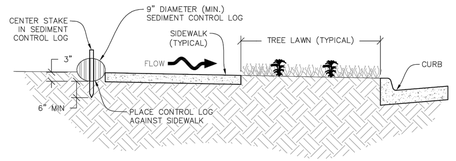
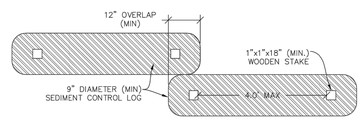


SEDIMENT CONTROL LOG AT BACK OF CURB



SEDIMENT CONTROL LOG AT SIDEWALK WITH TREE LAWN



SEDIMENT CONTROL LOG JOINTS

SCL **SEDIMENT CONTROL LOG**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SCL 2 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT CONTROL LOGS.
2. ALL SEDIMENT CONTROL LOGS SHALL BE INSTALLED FREE OF DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. SEDIMENT CONTROL LOGS SHALL BE INSTALLED IMMEDIATELY ADJACENT TO AN IMPERVIOUS SURFACE SUCH AS A CURB HEAD, SIDEWALK, INLET LID, ETC. NO GAPS SHALL EXIST BETWEEN THE SEDIMENT CONTROL LOG AND THE IMPERVIOUS SURFACE.
4. A UNIFORM 3" DEEP ANCHOR TRENCH (APPROX.) IN THE SHAPE OF A HALF–SPHERE SHALL BE EXCAVATED USING A TRENCHER, SPADE–SHAPED SHOVEL, OR PICK. THE ANCHOR TRENCH SHALL BE SIZED TO ALLOW FOR THE SEDIMENT CONTROL LOG TO SEAT TIGHTLY AGAINST THE ANCHOR TRENCH.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH AND PROPERLY COMPACTED.
6. ANCHOR TRENCH SHALL BE RELATIVELY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT.
7. All SEDIMENT CONTROL LOGS SHALL BE PLACED 3" (APPROX.) BELOW THE GROUND AND PULLED TIGHT ON BOTH ENDS TO REMOVE ANY CURVES OR SNAGS.
8. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS RELATIVELY FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED AGAINST THE GROUND AND SEDIMENT CONTROL LOG USING A SHOVEL, OR SIMILAR DEVICE.
9. SEDIMENT CONTROL LOG STAKES SHALL BE MADE OF WOOD AND SECURELY ANCHOR THE SCL IN PLACE.
10. STAKES SHALL BE PLACED ON 4.0' CENTERS AND EMBEDDED APPROXIMATELY 6" INTO THE GROUND. STAKES THAT ARE BROKEN PRIOR TO OR DURING INSTALLATION SHALL BE REPLACED.
11. SEDIMENT CONTROL LOGS SHALL OVERLAP A MINIMUM OF 12". THE OVERLAPPING SHALL OCCUR ON THE UP–GRADIENT SIDE OF THE LOGS.
12. SEDIMENT CONTROL LOGS SHALL BE STAKED WITHIN 6" FROM EACH END.
13. SEDIMENT CONTROL LOGS THAT ARE INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN THE CONCRETE AND THE LOG. EROSION CONTROL BLANKETING (ECB) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.

SEDIMENT CONTROL LOG INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEDIMENT CONTROL LOGS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF EXPOSED LOG.
3. SEDIMENT CONTROL LOGS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SEDIMENT CONTROL LOGS SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR OR DAMAGE THAT WOULD PREVENT THE SCL FROM FUNCTIONING AS DESIGNED.
5. WHEN THE SEDIMENT CONTROL LOGS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SEDIMENT CONTROL LOGS MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SCL 3 OF 3 Oct. 2013

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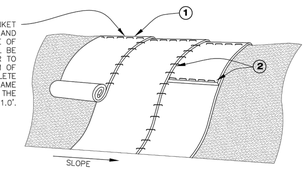

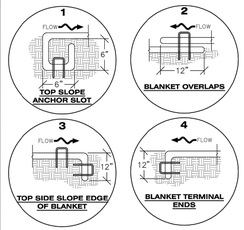

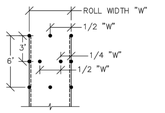

STAPLE PATTERN

NOTE: STAPLES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. IF MANUFACTURER INFO IS NOT AVAILABLE THEN ABOVE STAPLE PATTERN SHALL BE USED. WOODEN STAKES SHALL NOT BE USED FOR EROSION CONTROL BLANKET ON SLOPES.

NOTE:
WHEN NECESSARY, ALL SEEDING SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF EROSION CONTROL BLANKETS. PLEASE SEE DETAIL SMC FOR SEEDING, MULCHING, AND CRIMPING REQUIREMENTS.

ECB **EROSION CONTROL BLANKET (SLOPE)**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | ECB 1 OF 3 Oct. 2013

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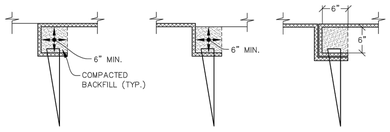
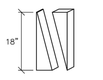
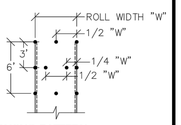


TOE OF SLOPE ANCHOR TRENCH | **TOP OF SLOPE ANCHOR TRENCH** | **JOINT ANCHOR TRENCH** USED TO JOIN BLANKETS TOGETHER (LONGITUDINAL)



SAW 2" x 4" LUMBER ON DIAGONAL

WOOD STAKE DETAIL
ALTERNATIVE WOOD STAKE PRODUCTS MAY BE USED WITH APPROVAL FROM THE TOWN.



STAKING PATTERN

NOTE: STAKES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. IF MANUFACTURER INFO IS NOT AVAILABLE THEN ABOVE STAKING PATTERN SHALL BE USED. STAPLES SHALL NOT BE USED FOR EROSION CONTROL BLANKET IN CHANNELS.

NOTES:
1. WOOD STAKES SHALL BE INSTALLED SUCH THAT ONLY 1" IS EXPOSED ABOVE THE GROUND.
2. WHEN NECESSARY, ALL SEEDING SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF EROSION CONTROL BLANKETS. PLEASE SEE DETAIL SMC FOR SEEDING, MULCHING, AND CRIMPING REQUIREMENTS.

ECB **EROSION CONTROL BLANKET (CHANNEL)**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | ECB 2 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

EROSION CONTROL BLANKET INSTALLATION NOTES

1. SEE THE PLAN VIEW FOR THE LOCATION(S) OF THE EROSION CONTROL BLANKETS.
2. EROSION CONTROL BLANKETS USED FOR CHANNEL PROTECTION SHALL BE PROPERLY SELECTED BY THE DESIGN ENGINEER BASED ON CURRENT AND FUTURE FLOW RATES WITHIN THE CHANNEL. BASED ON THESE CALCULATIONS, TURF REINFORCEMENT MATTING OR RIPRAP MAY BE NECESSARY IN LIEU OF EROSION CONTROL BLANKETS.
3. IMMEDIATELY PRIOR TO BLANKET INSTALLATION, SOIL SURFACE SHALL BE SMOOTH. AND FREE OF ANY GAPS, VOIDS, WEEDS, ROCKS, STICKS, OR OTHER MISCELLANEOUS DEBRIS.
4. EROSION CONTROL BLANKET SHALL THEN BE INSTALLED ACCORDING TO THE DETAILED DRAWINGS.
5. ANY DAMAGED OR REMAINING STAPLES OR STAKES SHALL BE REMOVED FROM THE SITE.
6. ALL EROSION CONTROL BLANKETS FOR SLOPE PROTECTION INSTALLED IN THE TOWN SHALL BE DOUBLE NET, STRAW OR EXCELSIOR.

MANUFACTURER	PRODUCT NAME
NORTH AMERICAN GREEN	S150
APPROVED EQUAL	APPROVED EQUAL

7. IN MOST CASES, EROSION CONTROL BLANKETS FOR SLOPE PROTECTION ARE TO REMAIN IN PLACE PERMANENTLY.

EROSION CONTROL BLANKET MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE EROSION CONTROL BLANKETS AND MAKE ANY NECESSARY REPAIRS.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | ECB 3 OF 3 Oct. 2013

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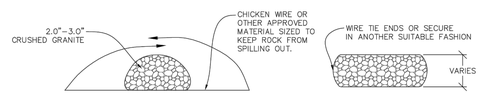
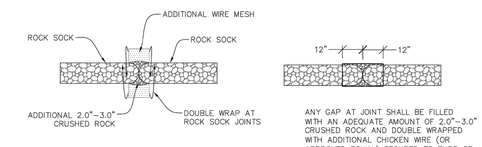


CROSS SECTION | **COMPLETED ROCK SOCK**



JOINT PLAN VIEW | **JOINT ELEVATION**

RS **ROCK SOCK**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | RS 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

ROCK SOCK INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ROCK SOCK.
2. CRUSHED ROCK SHALL BE APPROXIMATELY 2.0"–3.0" GRANITE IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK SHALL BE APPROXIMATELY ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL SIZED TO KEEP ROCK FROM SPILLING OUT.
5. MINIMUM ROCK SOCK DIAMETER SHALL VARY BASED ON APPLICATION (7" MIN).
6. TUBULAR MARKERS MAY NEED TO BE USED IN CONJUNCTION WITH ROCKS SOCKS ANYTIME THE ROCK SOCK IS PLACED ON A ROADWAY, SIDEWALK, PARKING LOT OR OTHER LOCATION SUSCEPTIBLE TO VEHICLE OR PEDESTRIAN TRAFFIC. TUBULAR MARKERS SHALL CONFORM TO THE TUBULAR MARKER DETAIL.

ROCK SOCK INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ROCK SOCKS.
2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
3. ROCK SOCKS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | RS 2 OF 2 Oct. 2013

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PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
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SHEET
C3.92

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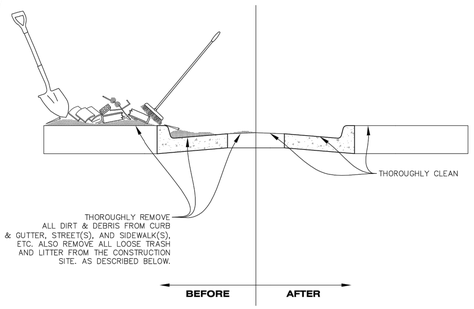

NOTE:

1. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY. FURTHERMORE, ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.

DTC **DEBRIS AND TRASH CONTROL**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DTC 1 OF 2 Oct. 2013

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DEBRIS CONTROL NOTES:

1. A COMBINATION OF SURFACE SCRAPING AND SWEEPING MAY BE NECESSARY TO PROPERLY CLEAN THESE AREAS.
2. ALL CHEMICAL SPILLS AND/OR STAINS ON THE SITE SHALL BE CLEANED TO THE MAXIMUM EXTENT PRACTICABLE. IN SOME CASES IT MAY BE NECESSARY TO USE PRESSURIZED WATER AND A VAC-TRUCK.
3. ON-SITE PERSONNEL, DELIVERY DRIVERS, ETC., SHOULD BE EDUCATED ON THE NEED FOR CONTINUAL DEBRIS AND TRASH CONTROL.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DTC 2 OF 2 Oct. 2013

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AREA INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF AREA INLET PROTECTION.
2. THE AREA INLET PROTECTION SHOWN ON CBMP PLANS SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF NEW INLETS. AN INTERIM STYLE OF INLET PROTECTION MAY BE ALLOWED UNTIL THE INSTALLATION OF THE GUTTER AND/OR PAVEMENT.

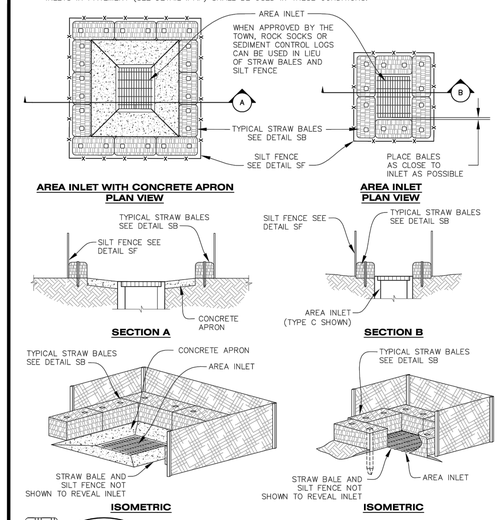
AREA INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE AREA INLET PROTECTION.
2. AREA INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. WHEN THE AREA INLET PROTECTION IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE AREA INLET PROTECTION MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
4. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPA 1 OF 1 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

THIS METHOD OF INLET PROTECTION SHALL NOT BE USED ON INLETS RECEIVING SIGNIFICANT FLOWS, SUCH AS IN CERTAIN SWALES/CHANNELS OR HIGHWAY MEDIANS. INLET PROTECTION FOR AREA INLETS IN PAVEMENT (SEE DETAIL IPAP) SHALL BE USED IN THESE CONDITIONS.



IPAN **INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPAN 1 OF 1 Oct. 2013

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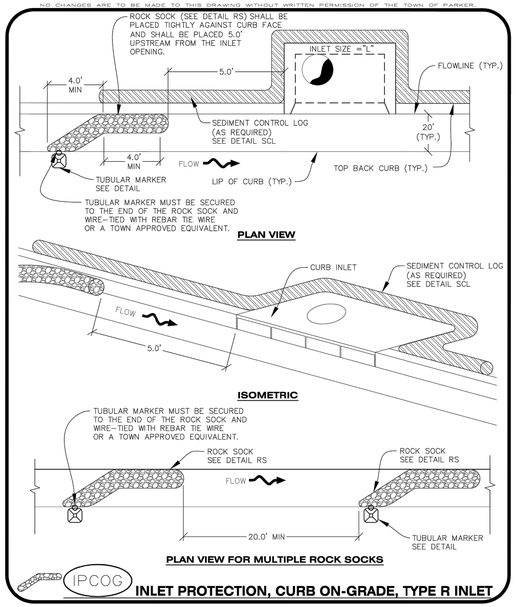

IPCOG **INLET PROTECTION, CURB ON-GRADE, TYPE R INLET**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOG 1 OF 3 Oct. 2013

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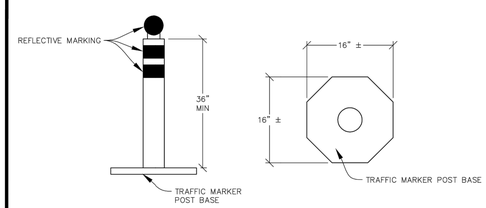

TUBULAR TRAFFIC MARKER DETAIL

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOG 2 OF 3 Oct. 2013

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INLET PROTECTION, CURB ON-GRADE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ON-GRADE INLET PROTECTION.
2. CRUSHED ROCK SHALL BE 2.0"-3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK FOR ON-GRADE INLET PROTECTION SHALL BE ONE CONTINUOUS PIECE.
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL, SIZED TO KEEP ROCK FROM SPILLING OUT.
5. ROCK SOCK SHALL BE PLACED 5.0' UPHILL OF THE INLET OPENING.
6. TUBULAR MARKER SHALL BE A MINIMUM OF 3.0' HIGH WITH REFLECTIVE BANDS AND OCTAGON SHAPED BASES.
7. THE CURB INLET PROTECTION SHOWN ON CBMP PLAN SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE APPLICABLE INSTALLATION OF THE FIRST LIFT OF ASPHALT ON ROADWAYS DRAINING TO THE INLET.

ON-GRADE INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ON-GRADE INLET PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
4. ON-GRADE INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOG 3 OF 3 Oct. 2013

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-9255

PREPARED UNDER THE DIRECT SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

REVISIONS

CBMP DETAILS

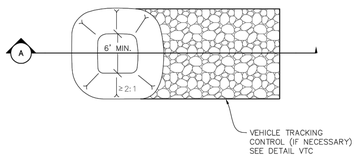
PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

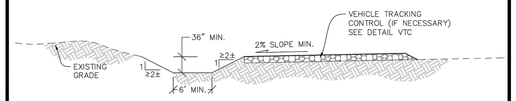
SHEET
C3.93

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

NOTE:
A VTC PAD IS NOT NECESSARY IF THERE IS ANOTHER VTC PAD IN BETWEEN THE CWA AND ROADWAY, PARKING LOT, DRIVE AISLES, ETC.



PLAN VIEW



SECTION A

CWA **CONCRETE WASHOUT AREA**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | CWA 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CONCRETE WASHOUT AREA INSTALLATION NOTES

1. CONCRETE WASHOUT AREAS SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT THE ACCESS POINT TO ALL CONCRETE WASHOUT AREAS WHEN NO OTHER VTC PAD EXISTS IN BETWEEN THE CWA AND THE ROADWAY.
3. IF GROUNDWATER IS ENCOUNTERED WHEN DIGGING THE PIT, A NEW LOCATION SHOULD BE SELECTED. IF NO OTHER LOCATION CAN BE FOUND, A ONE-PIECE IMPERVIOUS LINER SHALL BE REQUIRED ALONG THE BOTTOM AND SIDES OF THE SUBSURFACE PIT.

CONCRETE WASHOUT AREA INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CONCRETE WASHOUT AREA.
2. CONCRETE WASHOUT MATERIALS SHALL BE REMOVED BEFORE ITS CAPACITY HAS BEEN REACHED.
3. CONCRETE WASHOUT AREAS SHALL BE ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE AND ASSOCIATED WASH WATER.
4. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE AS NECESSARY TO ENSURE ADEQUATE CAPACITY.
5. CONCRETE WASHOUT AREAS SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
6. WHEN CONCRETE WASHOUT AREAS ARE REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE EXCAVATIONS TO BE FILLED WITH SUITABLE COMPACTED BACKFILL AND TOPSOIL, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CONCRETE WASHOUT AREAS SHALL BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | CWA 2 OF 2 Oct. 2013

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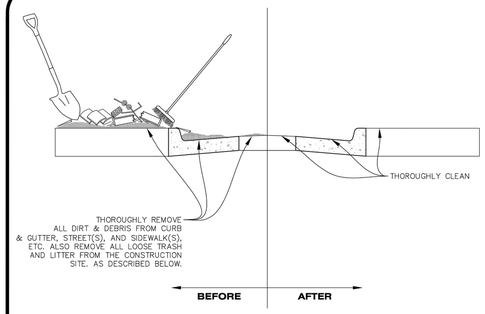

NOTE:

1. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY. FURTHERMORE, ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.

DTC **DEBRIS AND TRASH CONTROL**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DTC 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

DEBRIS CONTROL NOTES:

1. A COMBINATION OF SURFACE SCRAPING AND SWEEPING MAY BE NECESSARY TO PROPERLY CLEAN THESE AREAS.
2. ALL CHEMICAL SPILLS AND/OR STAINS ON THE SITE SHALL BE CLEANED TO THE MAXIMUM EXTENT PRACTICABLE. IN SOME CASES IT MAY BE NECESSARY TO USE PRESSURIZED WATER AND A VAC-TRUCK.
3. ON-SITE PERSONNEL, DELIVERY DRIVERS, ETC., SHOULD BE EDUCATED ON THE NEED FOR CONTINUAL DEBRIS AND TRASH CONTROL.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DTC 2 OF 2 Oct. 2013

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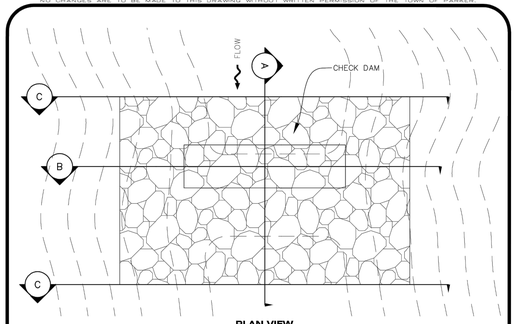
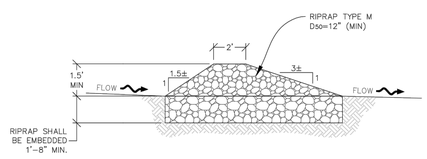


PLAN VIEW

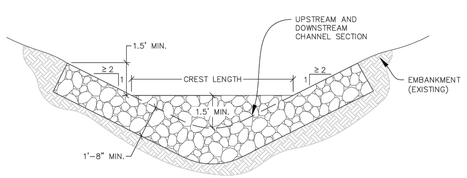


SECTION A

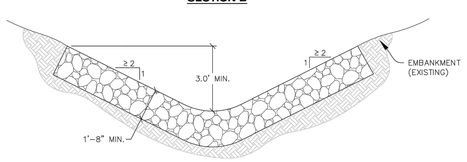
CD **CHECK DAM**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | CD 1 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



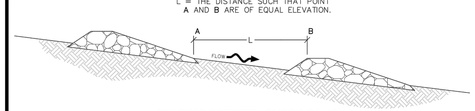
SECTION B



SECTION C

NOTE: SECTION C IS LOCATED IMMEDIATELY UPSTREAM AND DOWNSTREAM OF THE CHECK DAM, THEREFORE NO ROCK IS SHOWN WITHIN THE CHANNEL FLOW AREA.

L = THE DISTANCE SUCH THAT POINT **A** AND **B** ARE OF EQUAL ELEVATION.



SPACING BETWEEN CHECK DAMS

CD **CHECK DAM**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | CD 2 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CHECK DAM INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF CHECK DAMS.
2. CHECK DAMS SHOWN ON CBMP PLAN SHALL BE INSTALLED WHEN DIRECTED BY THE TOWN'S INSPECTOR.
3. RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A D50 MEDIAN STONE SIZE OF 12".
4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-8".
5. THE MAXIMUM SPACING BETWEEN CHECK DAMS SHOULD BE SUCH THAT THE BOTTOM OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM AS SHOWN IN THE DETAIL.

CHECK DAM INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CHECK DAMS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE CREST OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. CHECK DAMS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. WHEN CHECK DAMS ARE REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE EXCAVATIONS TO BE FILLED WITH SUITABLE COMPACTED TOPSOIL AND ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CHECK DAMS BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
5. IN SOME INSTANCES, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | CD 3 OF 3 Oct. 2013

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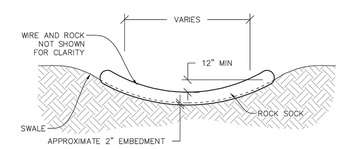
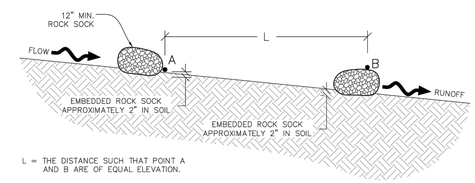


SWALE ELEVATION



SWALE SPACING

RSS **ROCK SOCK IN SWALE**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | RSS 1 OF 1 Oct. 2013

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PREPARED UNDER THE DIRECT SUPERVISION OF
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COLORADO REG # 30226
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REVISIONS

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

CBMP DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C3.94

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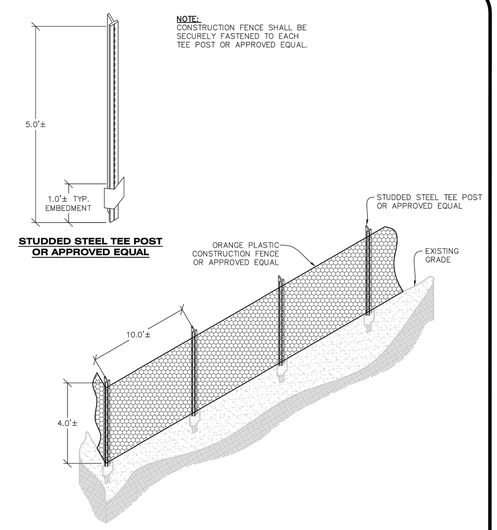

CF **CONSTRUCTION FENCE**

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | CF 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CONSTRUCTION FENCE INSTALLATION NOTES

1. THE CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO EACH POST OR APPROVED EQUAL.

CONSTRUCTION FENCE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CONSTRUCTION FENCE AND MAKE ANY NECESSARY REPAIRS.
2. CONSTRUCTION FENCE SHALL BE REPAIRED WHEN THE FENCING MATERIAL FALLS OUT OF COMPLIANCE WITH THE NOTES AND DETAILS.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | CF 2 OF 2 Oct. 2013

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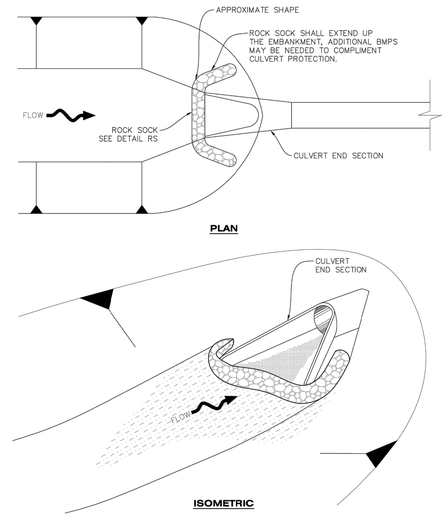

CP **CULVERT PROTECTION (INLET)**

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | CP 1 OF 2 Oct. 2013

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CULVERT PROTECTION (INLET) INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF CULVERT PROTECTION (INLET).
2. ROCK SOCK SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL RS).
3. ROCK SOCK SHALL BE APPROXIMATELY 12" IN DIAMETER.
4. ROCK SOCK SHALL EXTEND ABOVE THE FLOW LINE ELEVATION ON BOTH SIDES OF THE CULVERT END SECTION.

CULVERT PROTECTION (INLET) INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CULVERT PROTECTION (INLET).
2. AT A MINIMUM, ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE ROCK SOCK.
3. CULVERT PROTECTION (INLET) IS TO REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. WHEN THE CULVERT INLET PROTECTION IS REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CULVERT INLET PROTECTION TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | CP 2 OF 2 Oct. 2013

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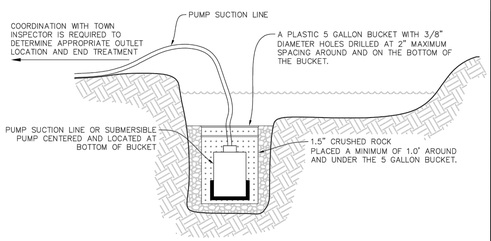

TYPICAL DEWATERING SUMP

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE APPROPRIATE MEASURES TO PROTECT PUMPING EQUIPMENT AND MINIMIZE SEDIMENT. USE OF A PLASTIC 5 GALLON BUCKET IS SUGGESTED BUT NOT REQUIRED. THE CONTRACTOR SHALL NOT HOLD THE TOWN LIABLE FOR DAMAGE TO PUMPING EQUIPMENT REGARDLESS OF METHODS USED.

D **DEWATERING**

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | D 1 OF 2 Oct. 2013

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DEWATERING INSTALLATION NOTES

1. IT IS THE EROSION CONTROL SUPERVISOR'S RESPONSIBILITY TO ENSURE THAT ALL DEWATERING IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE).

DEWATERING MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL INSPECT THE DEWATERING OPERATION TO ENSURE THAT THE DISCHARGE WATER IS DRAINING TO THE PROPER LOCATION(S) AND PERFORM ANY NECESSARY REPAIRS OR MAINTENANCE ON A FREQUENT BASIS.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | D 2 OF 2 Oct. 2013

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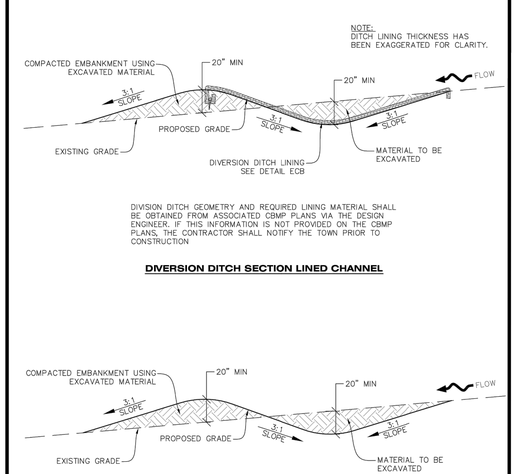

DD **DIVERSION DITCH**

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | DD 1 OF 2 Oct. 2013

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DIVERSION DITCH INSTALLATION NOTES

1. SEE THE PLAN VIEW FOR THE LOCATION(S) OF THE DIVERSION DITCHES.
2. A PLASTIC LINER, RIPRAP, OR EROSION CONTROL BLANKET MAY BE NECESSARY TO PROTECT THE DIVERSION DITCH. THE REQUIRED LINING MATERIAL SHALL BE OBTAINED FROM THE CBMP PLANS VIA THE DESIGN ENGINEER.
3. ALL MATERIAL EXCAVATED FROM THE DITCH MAY BE USED TO CONSTRUCT THE BERM ON THE DOWNHILL SIDE OF THE DITCH.
4. THE DIVERSION DITCH SHALL BE A MINIMUM OF 20" DEEP WITH APPROX. 3:1 SIDE SLOPES. THE ADJACENT BERM SHALL BE A MINIMUM OF 20" IN HEIGHT WITH APPROX. 3:1 SIDE SLOPES. ALL EMBANKMENTS SHALL BE FIRMLY COMPACTED.
5. THE DISCHARGE FROM THE DIVERSION DITCH SHALL BE DIRECTED TOWARDS AN APPROPRIATELY SIZED TEMPORARY SEDIMENT BASIN OR OTHER APPROVED AREA.

DIVERSION DITCH INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE DIVERSION DITCH.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 (10") THE CREST HEIGHT.
3. DIVERSION DITCHES SHALL BE RE-GRADED FOLLOWING THE SIGNS OF MODERATE OR MORE SOIL EROSION OR ANY DAMAGE.
4. DIVERSION DITCHES ARE TO REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR. ALTERNATIVELY, THE DIVERSION DITCHES MAY BE REMOVED WHEN THE SITE'S TOPOGRAPHY CHANGES SUCH THAT SIGNIFICANT RUNOFF IS NO LONGER POSSIBLE. IN SOME INSTANCES, THE DIVERSION DITCHES MAY REMAIN IN PLACE PERMANENTLY.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | DD 2 OF 2 Oct. 2013

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LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
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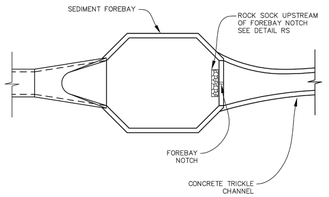
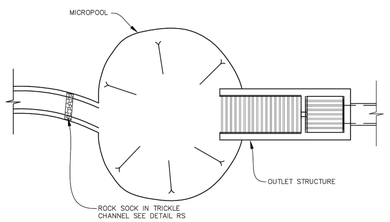


FOREBAY



OUTLET / MICROPOOL

DP **DETENTION POND PROTECTION**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DP 1 OF 2 Oct. 2013

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DETENTION POND PROTECTION INSTALLATION NOTES

1. DETENTION POND PROTECTION SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE CONSTRUCTION OF THE TRICKLE CHANNEL AND FOREBAY.
2. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK FOR OUTLET STRUCTURE AND FOREBAY PROTECTION SHALL BE ONE CONTINUOUS PIECE (SEE DETAIL RS).

DETENTION POND PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE OUTLET STRUCTURE PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED IMMEDIATELY.
3. OUTLET STRUCTURE PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DP 2 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

AREA INLET PROTECTION INSTALLATION NOTES

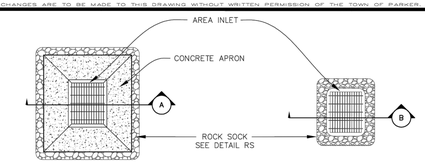
1. SEE PLAN VIEW FOR LOCATION(S) OF AREA INLET PROTECTION.
2. THE AREA INLET PROTECTION SHOWN ON CBMP PLANS SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF NEW INLETS. AN INTERIM STYLE OF INLET PROTECTION MAY BE ALLOWED UNTIL THE INSTALLATION OF THE GUTTER AND/OR PAVEMENT.

AREA INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE AREA INLET PROTECTION.
2. AREA INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. WHEN THE AREA INLET PROTECTION IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE AREA INLET PROTECTION MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
4. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.

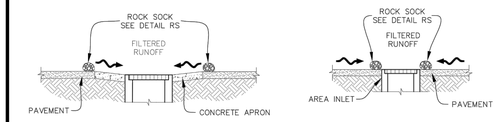
Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPA 1 OF 1 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



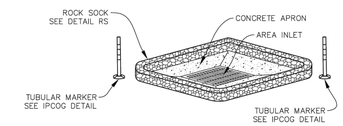
AREA INLET WITH CONCRETE APRON PLAN VIEW

AREA INLET PLAN VIEW



SECTION A

SECTION B



ISOMETRIC

IPAP **INLET PROTECTION FOR AREA INLETS IN PAVEMENT**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPAP 1 OF 1 Oct. 2013

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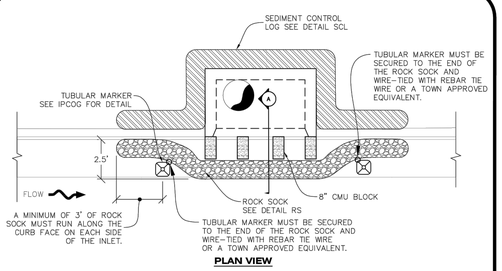
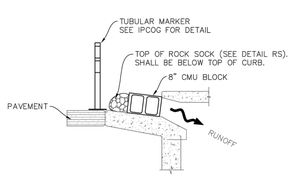


PLAN VIEW



SECTION A

IPCOS **INLET PROTECTION, CURB ON SUMP, TYPE R INLET**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOS 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CURB INLET PROTECTION INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF CURB INLET PROTECTION.
2. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK SHALL BE ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL SIZED TO KEEP ROCK FROM SPILLING OUT.
5. ROCK SOCK SHALL EXTEND 3.0' ALONG THE CURB BEYOND LOCATIONS WHERE IT RETURNS TO CONTACT CURB FACE.
6. TUBULAR TRAFFIC MARKERS SHALL BE A MINIMUM OF 36" IN HEIGHT WITH REFLECTIVE BANDS AND OCTAGON SHAPED BASES.
7. THE CURB INLET PROTECTION SHOWN ON CBMP PLAN SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF THE FIRST LIFT OF ASPHALT ON ROADWAYS DRAINING TO THE CURB INLET. CMU BLOCKS OR THE ROCK SOCK SHALL BE USED AS INTERIM PROTECTION UNTIL THE FIRST LIFT OF ASPHALT IS INSTALLED.

CURB INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CURB INLET PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
4. CURB INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOS 2 OF 2 Oct. 2013

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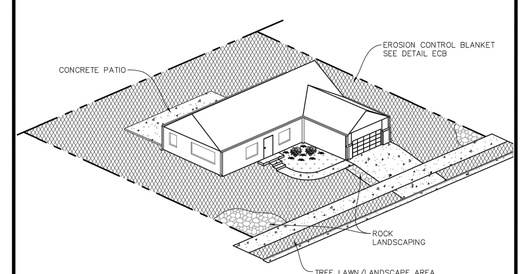

LP **LOT PROTECTION**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LP 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

EROSION CONTROL BLANKET FOR LOT PROTECTION INSTALLATION NOTES

1. ALL EROSION CONTROL BLANKETS FOR LOT PROTECTION INSTALLED IN THE TOWN SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

MANUFACTURER	PRODUCT NAME
NORTH AMERICAN GREEN	S150 BN
APPROVED EQUAL	APPROVED EQUAL

2. ALL EROSION CONTROL BLANKETS FOR LOT PROTECTION SHALL BE INSTALLED ACCORDING TO THE DETAIL DRAWINGS, WITH THE FOLLOWING ALLOWANCES AND ADDITIONS:
   - THE TOWN WILL ALLOW THE USE OF BIODEGRADABLE, EROSION CONTROL BLANKET–SPECIFIC STAPLES, IN LIEU OF TRADITIONAL METAL STAPLES.
   - ALL EROSION CONTROL BLANKET EDGES (SIDES AND ENDS) MUST OVERLAP THE ADJACENT BLANKET BY A MINIMUM OF 6–INCHES WITH THE UP–GRADIENT EDGES BEING PLACED ON TOP OF THE DOWN–GRADIENT EDGE OF THE ADJACENT BLANKET.
   - THE EDGES (SIDES AND ENDS) OF THE EROSION CONTROL BLANKETS DO NOT NEED TO BE TRENCHED INTO THE GROUND ASSUMING THE SITE CONDITIONS WILL NOT CAUSE EROSION BENEATH THE BLANKETS. THESE ASSUMPTIONS WILL BE THE RESPONSIBILITY OF THE EROSION CONTROL SUPERVISOR. ON OCCASION, THE TOWN'S INSPECTOR MAY REQUEST TRENCHING BASED UPON SITE CONDITIONS.
   - TOPSOIL PLACEMENT, SEEDING, AND MULCHING WILL NOT BE REQUIRED ON THE LOTS PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET.
3. ANY DAMAGED OR EXCESS STAPLES SHALL BE REMOVED FROM THE SITE FOLLOWING INSTALLATION.
4. THE EROSION CONTROL BLANKETING REQUIRED AS PART OF THE LOT PROTECTION (LP) REQUIREMENT MUST BE INSTALLED OVER ALL UN–LANDSCAPED AREAS WITHIN EACH RESIDENTIAL, MULTI–FAMILY, AND COMMERCIAL LOT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY / TEMPORARY CERTIFICATE OF OCCUPANCY.

EROSION CONTROL BLANKET FOR LOT PROTECTION MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE EROSION CONTROL BLANKET FOR LOT PROTECTION.
2. EROSION CONTROL BLANKETS FOR LOT PROTECTION ARE INTENDED TO REMAIN IN PLACE AND MAINTAINED UNTIL LANDSCAPING IS INSTALLED.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LP 2 OF 2 Oct. 2013

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
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PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

REVISIONS

△	DATE	DESCRIPTION
	10/24/17	INITIAL SUBMITTAL

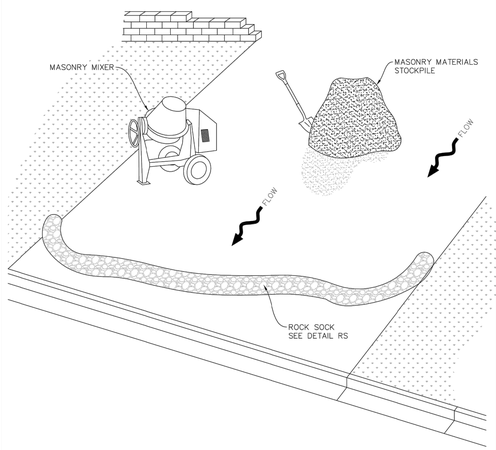
CBMP DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C3.96

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



MWP **MASONRY WORK PROTECTION**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

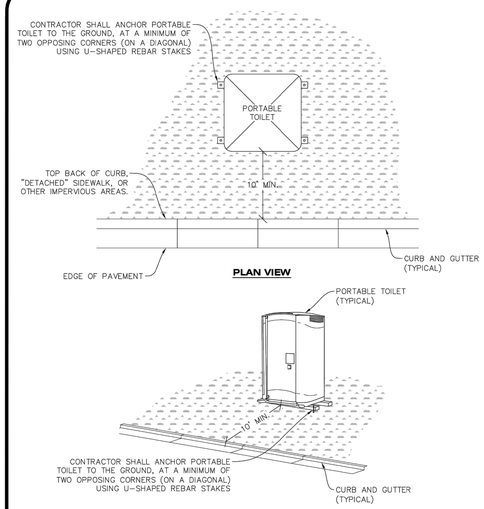
MASONRY WORK PROTECTION INSTALLATION NOTES

1. MASONRY WORK PROTECTION MAY NEED TO BE INSTALLED WHEN MASONRY WORK AND MIXING IS OCCURRING.
2. A ROCK SOCK SHALL BE INSTALLED IN A CRESCENT SHAPE ON THE DOWNHILL SIDE OF THE MASONRY WORK AND MIXER.
3. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
4. ROCK SOCK SHALL BE ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
5. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL, SIZED TO KEEP ROCK FROM SPILLING OUT.

MASONRY WORK PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE MASONRY WORK PROTECTION.
2. ALL CONCRETE WASTE SHALL BE REGULARLY CLEANED AND PLACED IN THE CONCRETE WASH OUT AREA.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



PTP **PORTABLE TOILET PROTECTION**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

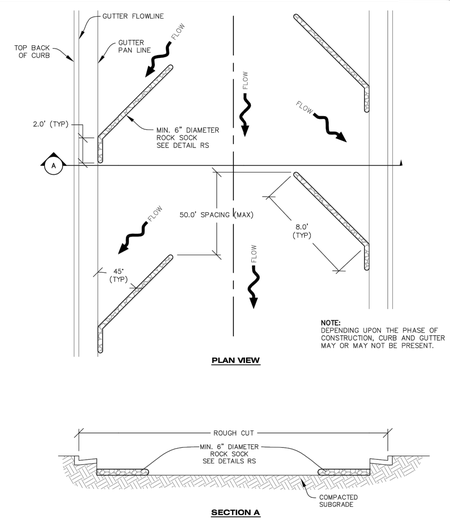
PORTABLE TOILET PROTECTION INSTALLATION NOTES

1. PORTABLE TOILETS SHALL BE PLACED A MINIMUM OF 10.0' BEHIND ALL CURBS, SIDEWALKS, AND OTHER IMPERVIOUS AREAS.
2. ALL PORTABLE TOILETS MUST BE GROUPED TOGETHER.
3. PORTABLE TOILETS SHALL BE SECURELY ANCHORED TO THE GROUND USING U-SHAPED REBAR STAKES.
4. U-SHAPED REBAR STAKES SHALL BE POSITIONED ON AT LEAST 2 OPPOSING (DIGITAL) CORNERS.

PORTABLE TOILET PROTECTION INSPECTION AND MAINTENANCE NOTES

2. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE PORTABLE TOILET PROTECTION.
3. PORTABLE TOILETS SHALL BE SERVICED AT THE NECESSARY INTERVALS TO ELIMINATE THE POSSIBILITY OF OVERFLOW.
4. WHEN THE PORTABLE TOILETS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE TOILETS MAY NEED TO BE LANDSCAPED OR ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
5. PORTABLE TOILETS THAT ARE NOT CONSISTENTLY MAINTAINED IN ACCORDANCE WITH THESE REQUIREMENTS MAY NEED TO BE CLUSTERED TOGETHER, IN ONE CENTRALIZED LOCATION IN ORDER TO INCREASE COMPLIANCE AND REDUCE THE CHANCE OF A SPILL.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



RCSC **ROUGH CUT STREET CONTROL**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

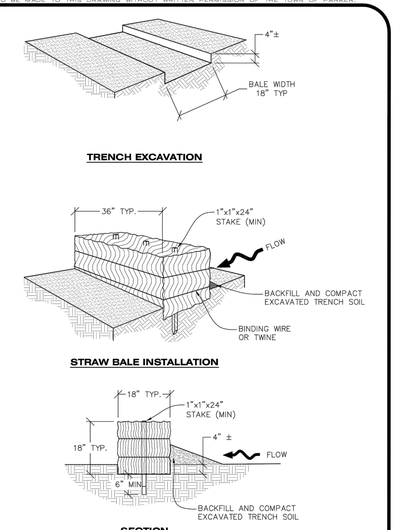
ROUGH CUT STREET CONTROL INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ROUGH CUT STREET CONTROL.
2. THE SPACING OF THE ROUGH CUT STREET CONTROL MAY BE DETERMINED BY THE DESIGN ENGINEER AND SHOWN ON THE CBMP PLAN.

ROUGH CUT STREET CONTROL INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ROUGH CUT STREET CONTROL.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.
3. ROUGH CUT STREET CONTROL SHALL BE REPAIRED IMMEDIATELY FOLLOWING ANY SIGN OF WEAR OR ALTERATION OF THE ORIGINAL SHAPE AND DIMENSIONS.
4. ROUGH CUT STREET CONTROL SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL SUB-GRADE PREPARATION BEGINS FOR PAVING. AT THAT POINT, THE RCSC SHOULD BE REMOVED IN INCREMENTS BASED ON SUBGRADE PREPARATION.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



SB **STRAW BALE**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

STRAW BALE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF STRAW BALES.
2. TYPICAL STRAW BALES SHALL BE APPROXIMATELY 36"X18"X18".
3. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE A MINIMUM OF 1"X1"X24".
4. WOODEN STAKES SHALL BE PLACED APPROXIMATELY 6" INTO THE GROUND.
5. STRAW BALES SHALL BE SPACED AND POSITIONED ACCORDING TO DETAILS.

STRAW BALE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE STRAW BALES.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE STRAW BALE.
3. STRAW BALES MAY NEED TO BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN, OR OTHERWISE DAMAGED.
4. STRAW BALES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN INSPECTOR.
5. WHEN THE STRAW BALES ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE STRAW BALES MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

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PREPARED UNDER THE DIRECT SUPERVISION OF
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DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

REVISIONS

CBMP DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C3.97

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

SEEDING AND MULCHING SHALL BE PERFORMED ACCORDING TO THE ACCOMPANYING DETAIL(S) AND TEXT. NO EXCEPTIONS SHALL BE MADE

1. SEE PLAN VIEW FOR:
   - LOCATION(S) OF SEEDING AND MULCHING
   - TYPE OF SEED MIX
2. SEED MIXES MAY CONFORM TO THE TABLE PROVIDED WITH THE SMC NOTES OR ALTERNATIVES MAY BE ALLOWED WITH PRIOR PERMISSION BY THE TOWN'S INSPECTOR.
3. SEEDING MAY BE PERFORMED YEAR ROUND ASSUMING THE SOIL IS NOT FROZEN. SEEDING DURING TIMES OF EXTREME TEMPERATURES SHOULD BE AVOIDED IF POSSIBLE.
4. AT THE BEGINNING OF THE LAND DISTURBANCE ACTIVITIES, IT IS HIGHLY RECOMMENDED THAT AN APPROPRIATE AMOUNT OF NATIVE TOPSOIL BE STRIPPED FROM THE SITE AND STOCKPILED. ALL AREAS, PRIOR TO PERMANENT SEEDING AND MULCHING, WILL LIKELY NEED TO BE COVERED WITH AN APPROPRIATE LAYER OF TOPSOIL. THIS REQUIREMENT APPLIES TO ALL AREAS WHERE NATIVE SEEDING IS SPECIFIED ON THE CBMP PLAN AND/OR LANDSCAPING PLANS.
5. IT IS STRONGLY RECOMMENDED THAT SAMPLES FROM THE STRIPPED TOPSOIL BE PROPERLY COLLECTED AND TESTED BY A QUALIFIED LABORATORY TO ENSURE ADEQUATE NUTRIENT CONTENT PRIOR TO SEEDING AND MULCHING. IF IT IS DISCOVERED THAT THE TOPSOIL IS VOID OF THE NUTRIENTS NECESSARY TO SUCCESSFULLY ESTABLISH THE REQUIRED VEGETATION, THEN THE APPROPRIATE AMENDMENTS SHALL BE ADDED.
6. ALL AREAS TO BE SEEDED AND MULCHED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING DETAILS AND NOTES. SURFACE ROUGHENING SHALL OCCUR AFTER PLACEMENT OF THE TOPSOIL.
7. WHEN INSTALLED WITH A DRILL SEEDER, SEED SHALL BE PLACED AT A DEPTH OF ¼ – ½ INCH. ROW SPACING SHALL BE NO MORE THAN 6–INCHES.
8. ALL AREAS INCAPABLE OF BEING DRILL SEEDED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING NOTES OR EFFECTIVELY ROUGHENED USING A HARROW OR OTHER SUCH IMPLEMENT. ALL AREAS SHALL BE UNIFORMLY HAND BROADCASTED WITH THE PROPER SEED MIX APPLIED AT TWO TIMES THE DRILL SEEDED RATE. BROADCASTED AREAS SHALL THEN BE RE–HARROWED OR RE–RAKED USING A HARD–TIPPED RAKE TO ENSURE THAT SEEDS ARE BURIED TO AN APPROXIMATE DEPTH OF ¼ – ½ INCH.
9. AFTER SEEDING HAS BEEN COMPLETED, MULCH SHALL BE UNIFORMLY APPLIED AT A RATE OF 2 TONS/ACRE (4,000 LBS/ACRE). MULCH SHALL BE MECHANICALLY CRIMPED TO A DEPTH OF 2 INCHES USING A CRIMPER. MULCH SHALL BE HAND CRIMPED AND COVERED WITH A TACKIFIER IN AREAS WHERE MECHANICAL CRIMPING IS NOT POSSIBLE. WHEN SOILS PERMIT, ALL MULCH SHALL BE CRIMPED SUCH THAT THE INDIVIDUAL PIECES OF STRAW OR HAY FORM EXAGGERATED V–SHAPES PROTRUDING OUT OF THE GROUND SEVERAL INCHES.
10. IN CERTAIN INSTANCES, IT MAY BE NECESSARY TO APPLY A TACKIFIER IN ORDER TO HELP WITH STRAW DISPLACEMENT. TACKIFIER SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | SMC 1 OF 3 | Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

SEEDING AND MULCHING MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEEDING AND MULCHING.
2. ANY SEEDED AND MULCHED AREAS THAT BECOME DAMAGED SHALL BE REPAIRED WITHIN THE TIME FRAME SPECIFIED BY THE TOWN'S INSPECTOR.

WEED MANAGEMENT

1. ALL HERBICIDES SHALL BE APPLIED BY COMMERCIAL PESTICIDE APPLICATORS LICENSED BY THE COLORADO DEPARTMENT OF AGRICULTURE AS QUALIFIED APPLICATORS. THE CONTRACTOR SHALL FURNISH DOCUMENTATION OF SUCH LICENSING PRIOR TO HERBICIDE APPLICATION.
2. HERBICIDE APPLICATION METHOD SHALL BE SUCH THAT PLANT GROWTH OUTSIDE THE DESIGNATED TREATMENT AREAS WILL NOT BE DAMAGED. ALL DAMAGE CAUSED BY IMPROPER HERBICIDE APPLICATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. HERBICIDES SHALL BE APPLIED DURING THE APPROPRIATE SEASONS, WHEN TARGET PLANTS ARE ACTIVELY GROWING.
4. AFTER THE GRASS SEED IS ESTABLISHED, APPROPRIATE HERBICIDES SHALL BE APPLIED TO CONTROL THE REMAINING WEEDS TO ENSURE A TIMELY RETURN OF THE FINANCIAL SECURITY. PROPER TIMING OF HERBICIDE APPLICATIONS ARE NECESSARY TO ACHIEVE THE SUPPRESSION OF WEED SEED PRODUCTION AND DEPLETION OF WEED ROOT MASS. ULTIMATELY, THE HERBICIDES USED SHALL BE BASED UPON THE TARGET WEEDS.
5. HERBICIDE TREATMENTS SHALL CONTINUE AT AN APPROPRIATE RATE UNTIL IT IS EVIDENT THAT WEED GROWTH PRESENCE AND GROWTH IS MINIMAL AND MAY BE CONTROLLED THROUGH MOWING AND/OR ANNUAL HERBICIDE TREATMENT.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | SMC 2 OF 3 | Oct. 2013

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TOWN OF PARKER, SEED MIX 1
20% CANADA WILDRYE
15% CRESTED WHEATGRASS
15% SLENDER WHEATGRASS
10% ANNUAL RYEGRASS
10% SHEEP FESCUE
10% BIG BLUESTEM
10% SIDEOATS GRAMA
5% CANADA BLUEGRASS
5% BLUE GRAMA

SEEDING RATE:
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

TOWN OF PARKER, SEED MIX 2
22% SLENDER WHEATGRASS
18% SODAR STREAMBANK WHEATGRASS
13% ARIZONA FESCUE
13% BLUE GRAMA
12% BUFFALOGRASS
12% BARLEY OR OATS
5% SPIKE MUHLY
5% INDIAN RICEGRASS

SEEDING RATE:
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

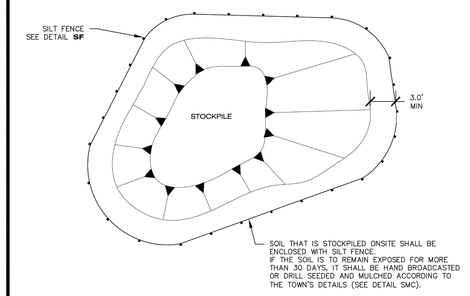
TOWN OF PARKER, SEED MIX 3 (LOW-GROWTH MIX)
25% EPHRAIM CRESTED WHEATGRASS
23% SHEEP FESCUE
18% PERENNIAL RYEGRASS
13% CANADA BLUEGRASS
12% BARLEY OR OATS
9% BLUE FESCUE

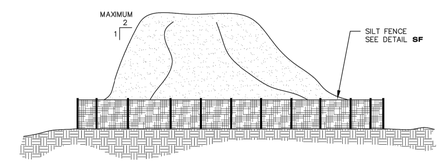
SEEDING RATE:
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

SEED MIX 4:
OTHER SEED MIXES APPROVED BY THE TOWN OF PARKER

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | SMC 3 OF 3 | Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.





STOCKPILES SHALL BE LOCATED ONSITE PER THE APPROVED CBMP PLAN.

SP **STOCKPILE PROTECTION**

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | SP | JUNE 2006

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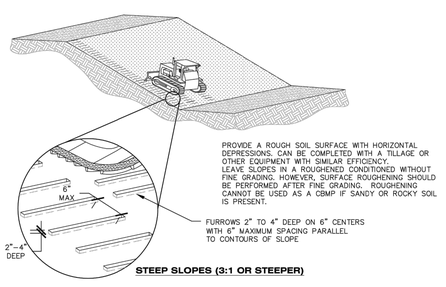
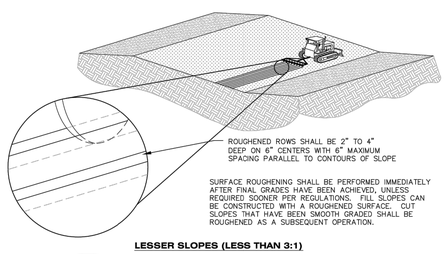


STEEP SLOPES (3:1 OR STEEPER)



LESSER SLOPES (LESS THAN 3:1)

SR **SURFACE ROUGHENING**

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | SR | JUNE 2006

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SURFACE ROUGHENING INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SURFACE ROUGHENING.
2. ANY DISTURBED LAND THAT REMAINS INACTIVE FOR MORE THAN 14 CONSECUTIVE DAYS MUST RECEIVE SURFACE ROUGHENING. DETERMINATION OF JOB SITE INACTIVITY IS AT THE DISCRETION OF THE TOWN'S INSPECTOR.
3. SURFACE ROUGHENING SHALL BE PERFORMED PERPENDICULAR TO THE SLOPE.
4. SOIL SHALL BE ROUGHENED A MINIMUM OF 6–INCHES DEEP USING RIGID SHANKS.
5. A FARMING DISC SHALL NOT BE USED FOR SURFACE ROUGHENING.
6. FOR STEEP SLOPES (3:1 OR STEEPER), IT IS ACCEPTABLE TO "TRACK" THE SLOPES, ACCORDING TO THE CBMP DETAILS.

SURFACE ROUGHENING INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL INSPECT THE SURFACE ROUGHENING AT THE FOLLOWING INTERVALS:
   - IMMEDIATELY FOLLOWING INITIAL INSTALLATION.
   - EVERY 7 DAYS DURING ACTIVE CONSTRUCTION.
   - IMMEDIATELY FOLLOWING ANY STORM EVENT.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | SR | JUNE 2006

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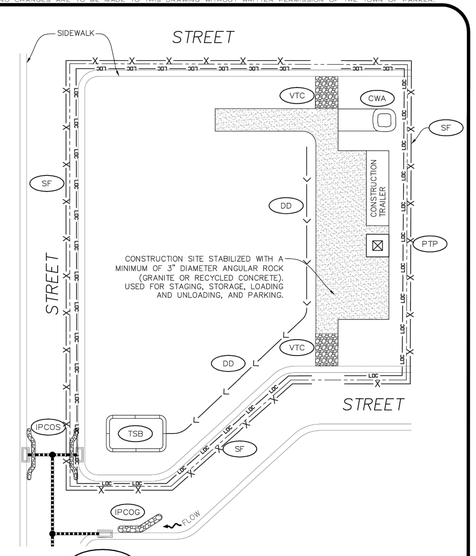

STABILIZED STAGING AREA

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | SSA 1 OF 2 | Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH TOWN APPROVAL.
2. STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY CONTAIN PARKING, STORAGE, AND LOADING OPERATIONS.
3. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3" DIAMETER OF ANGULAR ROCK (GRANITE OR RECYCLED CONCRETE).
4. SSA FOR SMALLER SITES MAY NOT BE PRACTICAL. IN THESE AND SIMILAR SITUATIONS, VARIANCES MAY BE PERMITTED BY THE TOWN.

STABILIZED STAGING AREA INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE STAGING AREA.
2. STABILIZED STAGING AREA SHALL BE ENLARGED AS NECESSARY TO CONTAIN PARKING, STORAGE, LOADING, AND UNLOADING.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | SSA 2 OF 2 | Oct. 2013

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-9255

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

REVISIONS

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

CBMP DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C3.98

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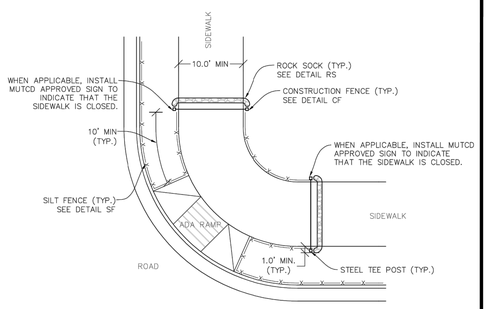

NOTE:
SEDIMENT CONTROL LOGS (SCL) MAY BE USED IN LIEU OF SILT FENCE (SF) WITH PRIOR APPROVAL FROM TOWN.

STP

SIDEWALK TRANSITION PROTECTION (AT INTERSECTION)

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | STP | 1 OF 3 | Oct. 2013

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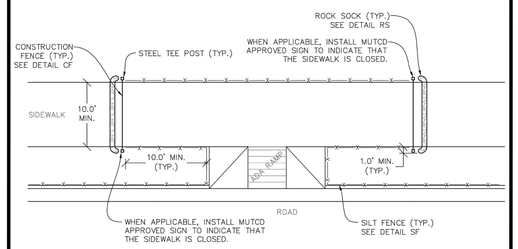

NOTE:
SEDIMENT CONTROL LOGS (SCL) MAY BE USED IN LIEU OF SILT FENCE (SF) WITH PRIOR APPROVAL FROM TOWN.

STP

SIDEWALK TRANSITION PROTECTION (ALONG STRAIGHT ROADWAY)

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | STP | 2 OF 3 | Oct. 2013

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SIDEWALK TRANSITION PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF SIDEWALK TRANSITION PROTECTION.
2. ROCK SOCK SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL RS).
3. SILT FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL SF).
4. CONSTRUCTION FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL CF).
5. SEDIMENT CONTROL LOGS MAY BE USED IS LIEU OF SILT FENCE WITH PRIOR APPROVAL FROM THE TOWN.

SIDEWALK TRANSITION PROTECTION INSPECTION & MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SIDEWALK TRANSITION INSPECTION.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | STP | 3 OF 3 | Oct. 2013

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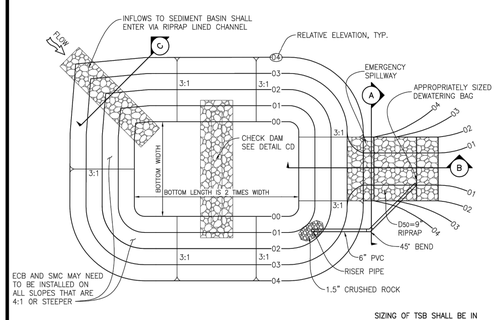

PLAN VIEW

SIZING OF TSB SHALL BE IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.

TSB

TEMPORARY SEDIMENT BASIN

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | TSB | 1 OF 3 | Oct. 2013

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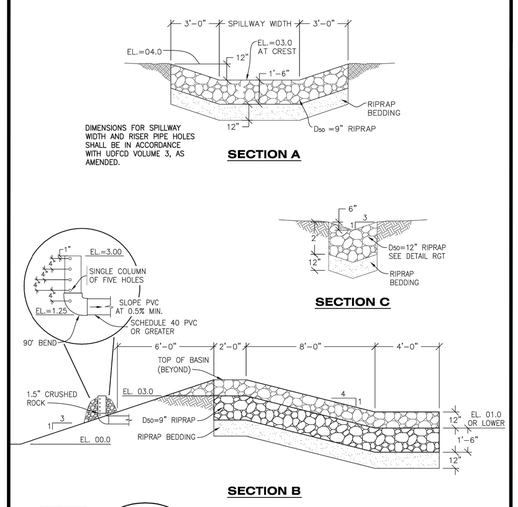

TSB

TEMPORARY SEDIMENT BASIN

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | TSB | 2 OF 3 | Oct. 2013

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TEMPORARY SEDIMENT BASIN INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT BASIN(S).
2. THE TEMPORARY SEDIMENT BASIN(S) SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY OTHER GRADING ACTIVITIES.
3. THE EXACT DIMENSIONS AND DETAILS OF THE TEMPORARY SEDIMENT BASIN SHALL BE DETERMINED BY THE DESIGN ENGINEER, IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.
4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3" AND SHALL HAVE A MINIMUM OF 15% BY WEIGHT PASSING THE NO. 200 SIEVE.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% DENSITY, AND WITHIN +/- 2% OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698.
6. AN APPROPRIATELY SIZED DEWATERING BAG SHALL BE SECURED TO THE END OF THE DISCHARGE PIPE. THE DEWATERING BAG SHALL BE REPLACED ONCE SEDIMENT ACCUMULATION REACHES 50%.

TEMPORARY SEDIMENT BASIN INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE TEMPORARY SEDIMENT BASIN.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT REACHES A DEPTH OF 2.0', OR WITHIN 2.0' OF THE SPILLWAY CREST, OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. SEDIMENT BASINS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL UPSTREAM VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP | CONSTRUCTION BEST MANAGEMENT PRACTICES | TSB | 3 OF 3 | Oct. 2013

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REVISIONS

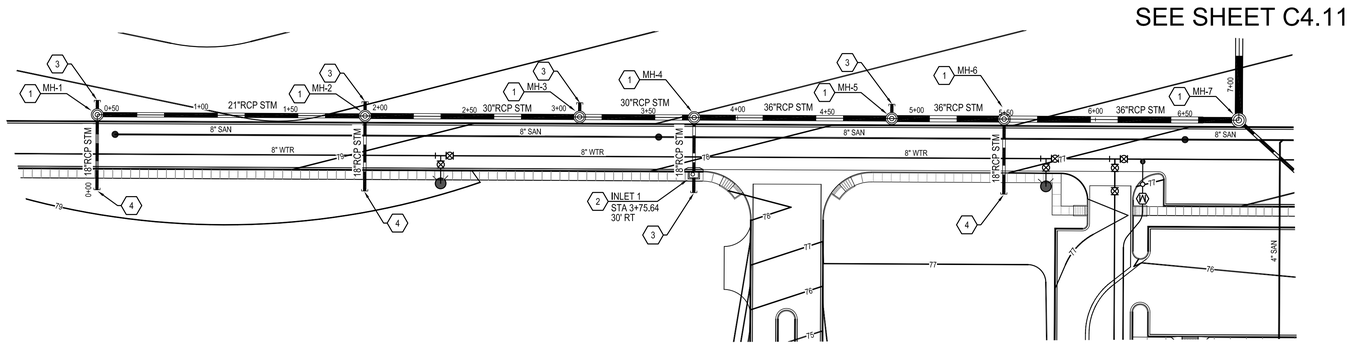
DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

CBMP DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

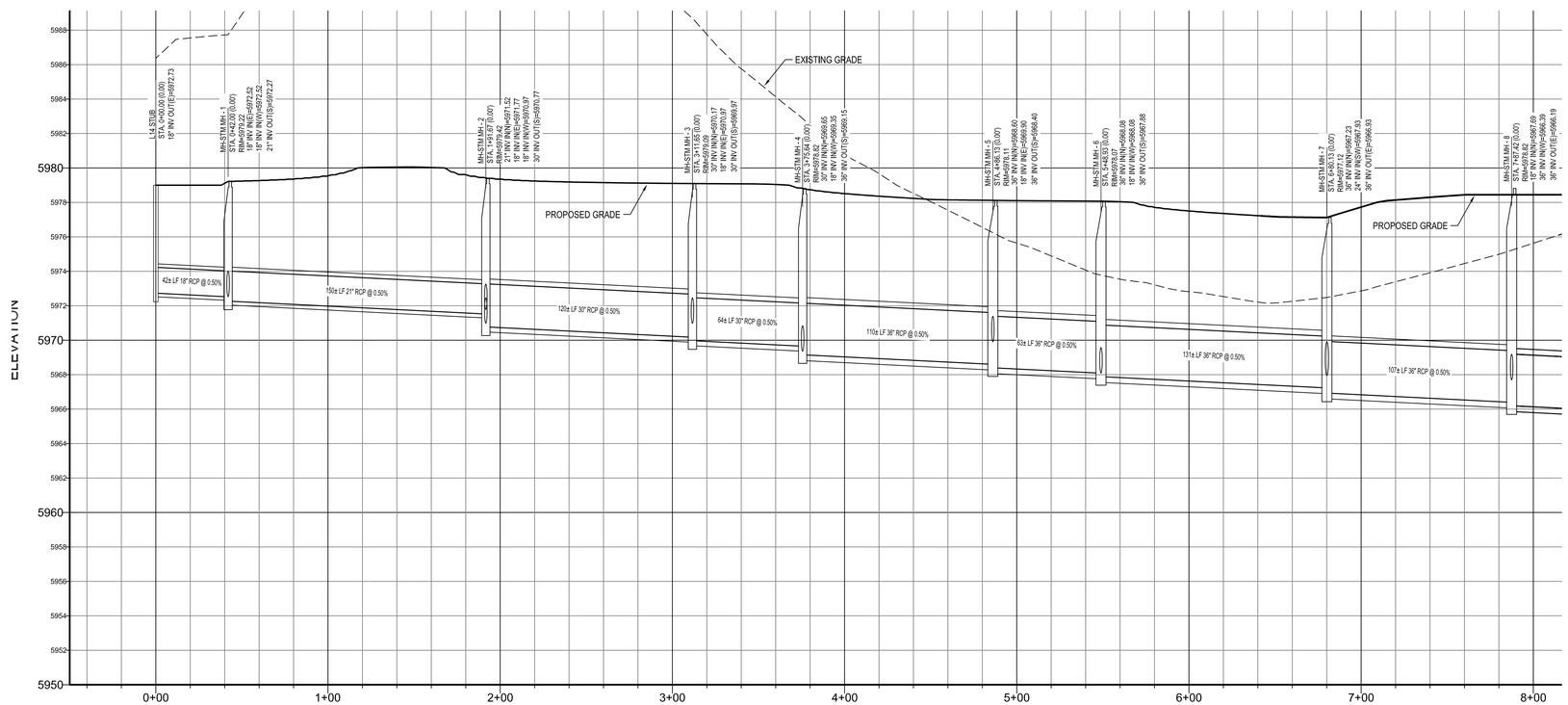
design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C3.99



CONSTRUCTION NOTES

1. CONSTRUCT 5' DIAMETER MANHOLE. SEE SHEET C4.90.
2. CONSTRUCT 5' TYPE R INLET. SEE SHEET C4.91.
3. STUB 18" RCP 8LF @ 2.00%. SEE PROFILE FOR STARTING INVERT. PLUG AND MARK FOR FUTURE CONNECTION.
4. STUB 18" RCP 42LF @ 2.00%. SEE PROFILE FOR STARTING INVERT. PLUG AND MARK FOR FUTURE CONNECTION.



UTILITY NOTES

1. ROADWAY DIMENSIONS ARE FROM FL-FL, 1-FOOT PAN IS PROPOSED ONSITE.
2. ALL UTILITY CONSTRUCTION SHALL CONFORM TO PARKER WATER AND SANITATION DISTRICT AND CRITERIA REFERENCE. LOCAL AGENCY INFRASTRUCTURE DESIGN AND CONSTRUCTION STANDARDS.
3. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE PARKER WATER AND SANITATION DISTRICT THE DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL NOTIFY THE TOWN OF PARKER PUBLIC WORKS AND PARKER WATER AND SANITATION DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO STARTING CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES. EXISTING UTILITIES SHOWN ON THIS PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND DO NOT REFLECT A COMPLETE SURVEY OF EXISTING UTILITIES. CONTACT THE ENGINEER WITH DISCREPANCIES.
6. CONTRACTOR SHALL VERIFY THE STUB TIE IN ELEVATION PRIOR TO START OF CONSTRUCTION. THE ELEVATION OF THE STUB SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO SANITARY SEWER CONSTRUCTION.
7. SAWCUT OF EXISTING STREETS SHALL BE IN CONFORMANCE WITH TOWN STANDARDS. CUTS SHALL STRAIGHT WITH CLEAN EDGES. REMOVE EXISTING CURB AND GUTTER TO NEAREST JOINT RETURN ALONG EXISTING LINE AND GRADE.
8. THE OWNER AND OR THEIR REPRESENTATIVE SHALL BE RESPONSIBLE FOR COORDINATION WITH EXISTING FRANCHISE UTILITIES TO INCLUDE COMCAST, XCEL, CENTURY LINK OR OWNERS OF EXISTING DRY UTILITY LINES.
9. EXISTING UTILITY SURFACE APPURTENANCES SHALL BE RAISED TO FINISHED GRADE. THIS INCLUDES BUT IS NOT LIMITED TO MANHOLE LIDS, VALVE COVERS.
10. SITE SURVEY IS PROVIDED BY ESC DATED 2-8-2016.
11. THE CONTRACTOR SHALL HAVE AN APPROVED SET OF CONSTRUCTION PLANS ON SITE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THE CONSTRUCTION, NOTIFYING AND SCHEDULING LOCAL AGENCIES INSPECTIONS.
12. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF MANHOLE AND FLOWLINE X CENTER OF INLETS.
13. ELEVATIONS ARE FINISHED GRADE ELEVATION UNLESS OTHER WISE NOTED.

BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83)
ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

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.

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

CAUTION: NOTICE TO CONTRACTOR THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

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DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

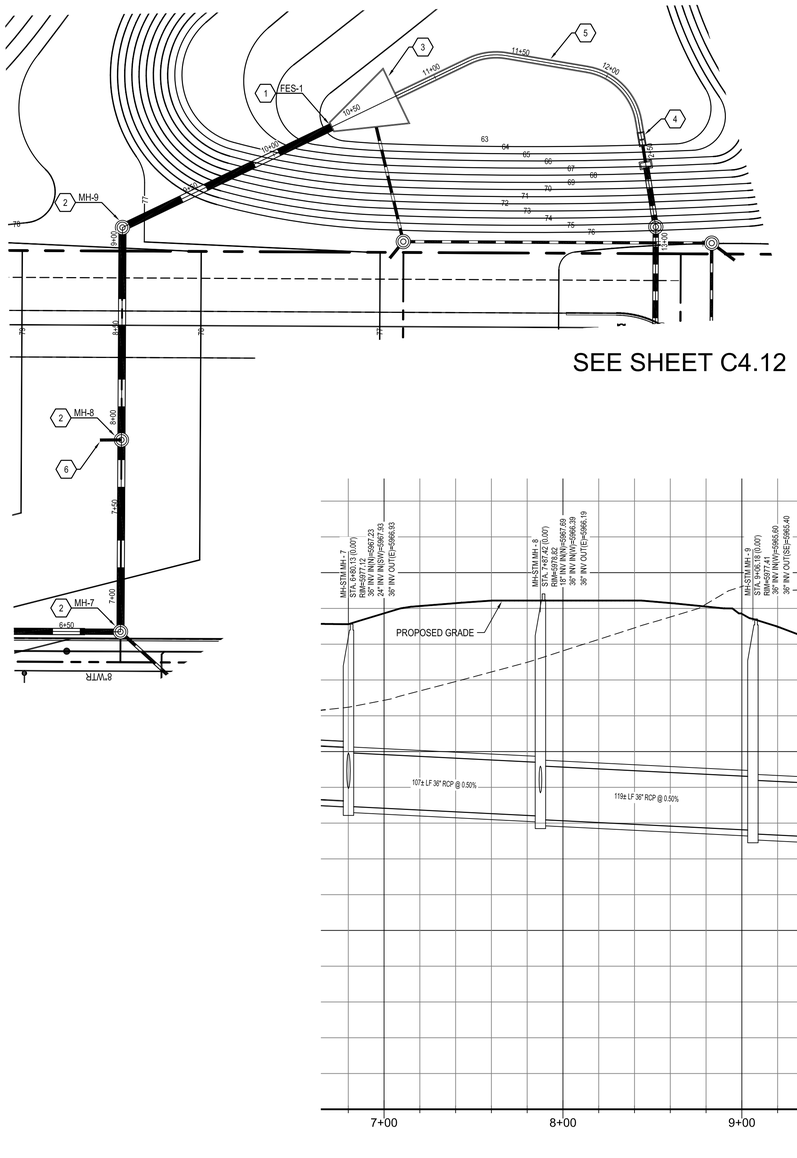
REVISIONS

STORM SEWER PLAN AND PROFILE

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C4.10



CONSTRUCTION NOTES

1. CONSTRUCT FLARED END SECTION. SEE SHEET C4.92.
2. CONSTRUCT 5' DIAMETER MANHOLE. SEE SHEET C4.90.
3. CONSTRUCT CONCRETE FOREBAY. SEE SHEET C4.93.
4. CONSTRUCT CONCRETE OUTLET STRUCTURE. SEE SHEET C4.93.
5. CONSTRUCT 3' WIDE CONCRETE TRICKLE CHANNEL. SEE SHEET C4.93.
6. STUB 18" RCP 8LF @ 2.00%. SEE PROFILE FOR STARTING INVERT. PLUG AND MARK FOR FUTURE CONNECTION.

BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83)
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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

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STORM SEWER PLAN AND PROFILE

PARKER POINTE
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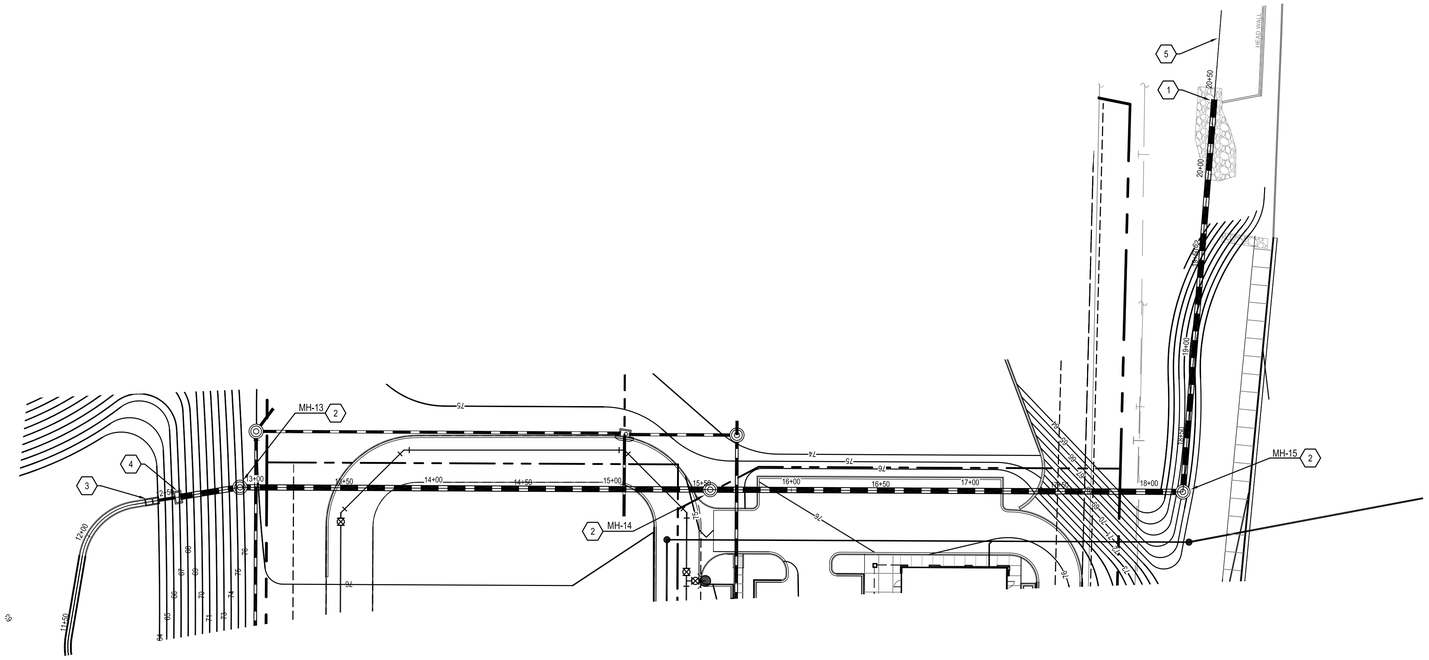
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

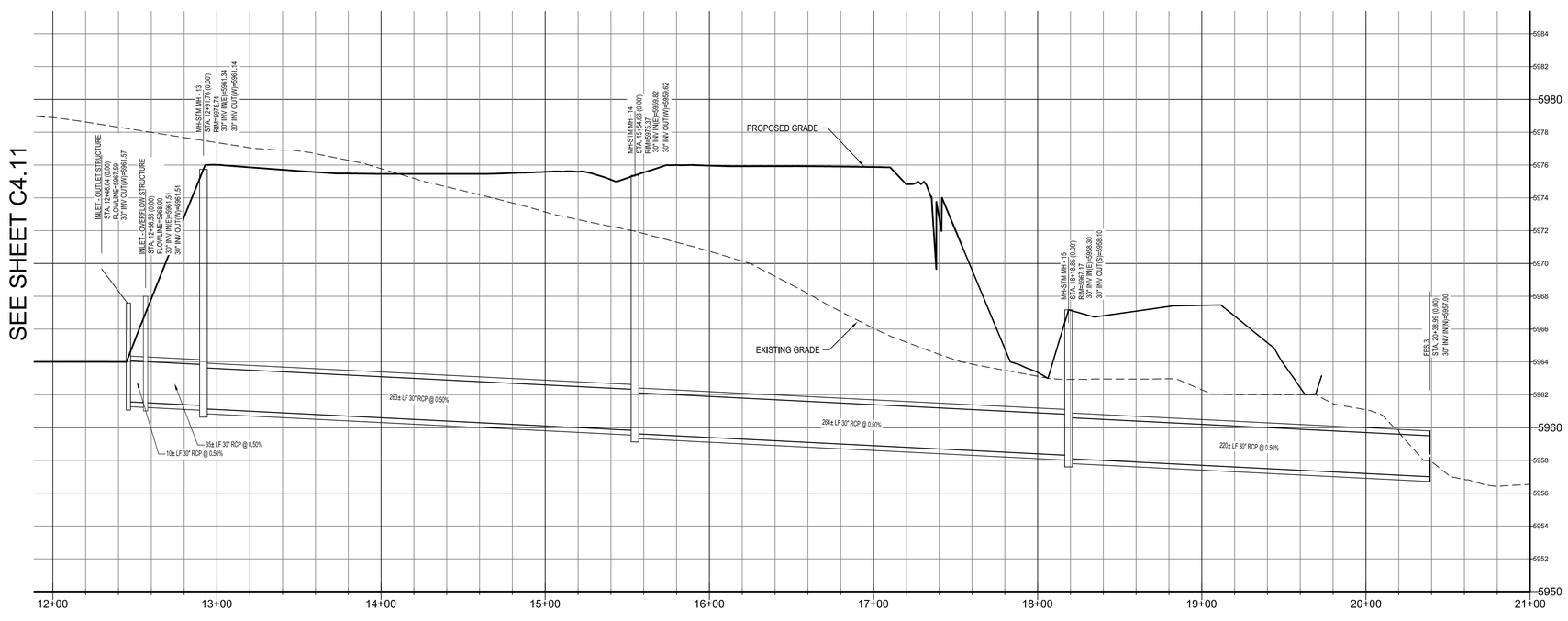
SHEET
C4.11

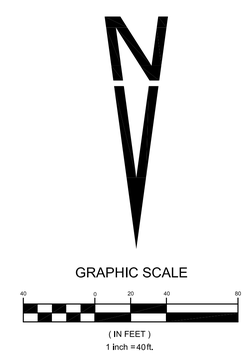


SEE SHEET C4.11

CONSTRUCTION NOTES

1. CONSTRUCT FLARED END SECTION. SEE SHEET C4.92.
2. CONSTRUCT 5' DIAMETER MANHOLE. SEE SHEET C4.90.
3. CONSTRUCT CONCRETE OUTLET STRUCTURE. SEE SHEET C4.93.
4. CONSTRUCT TYPE D CONCRETE INLET. SEE SHEET C4.92.
5. INSTALL 8' WIDE GROUTED TYPE L RIPRAP ACROSS ENTIRE BOX CULVERT OPENING.





BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83)
ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

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.

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

CAUTION: NOTICE TO CONTRACTOR THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-0255

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

REVISIONS

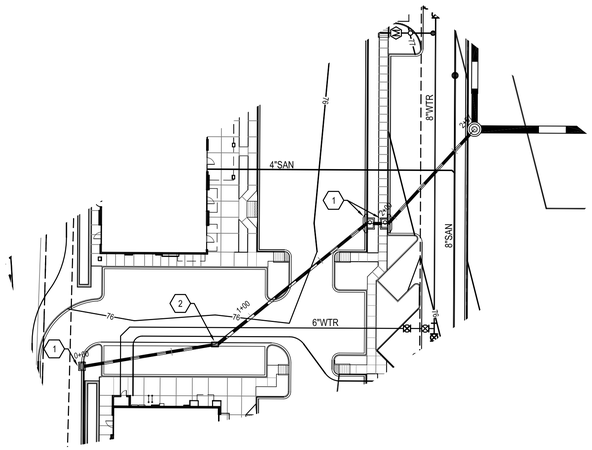
DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

STORM SEWER PLAN AND PROFILE

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

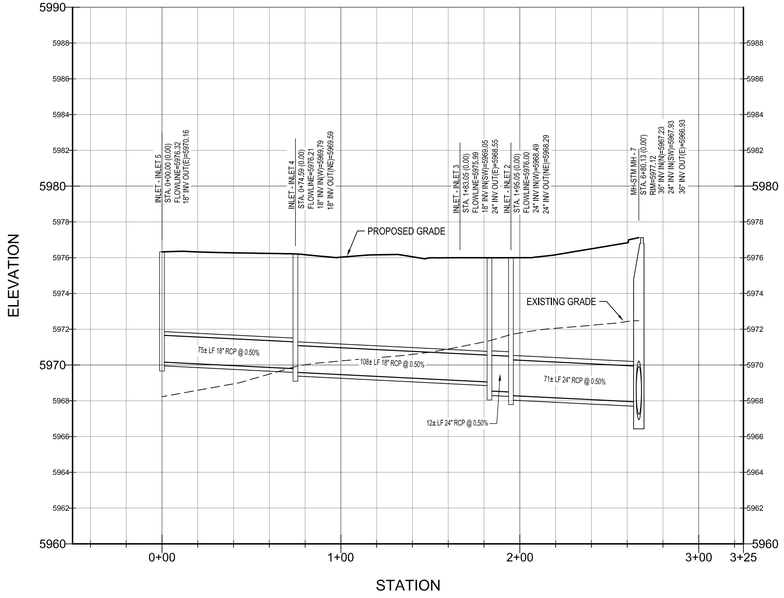
design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C4.12



CONSTRUCTION NOTES

1. CONSTRUCT 5' TYPE R INLET. SEE SHEET C4.91.
2. CONSTRUCT SINGLE TYPE 13 GRATED INLET. SEE SHEET C4.93.



GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

BENCHMARK

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10/24/17	INITIAL SUBMITTAL

REVISIONS

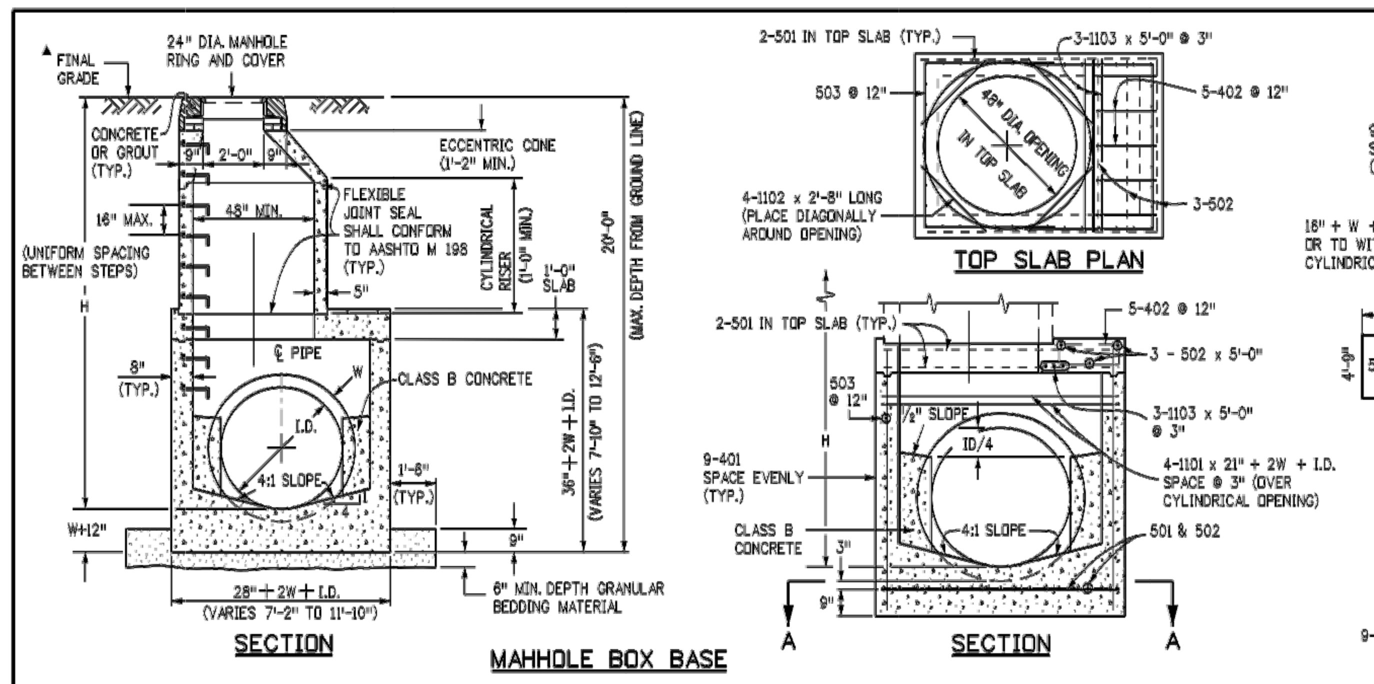
STORM SEWER PLAN AND PROFILE

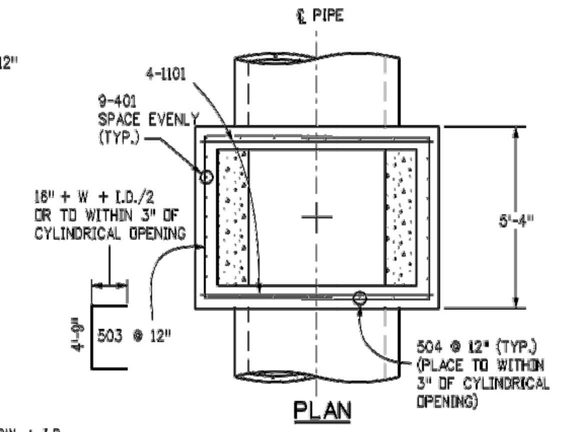
PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

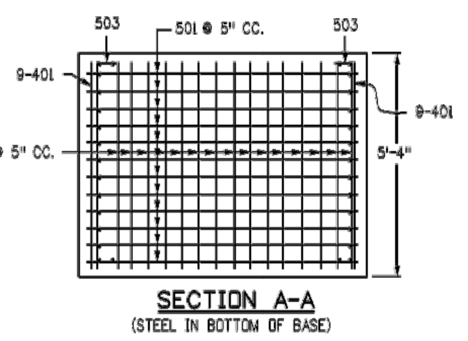
design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C4.14

MANHOLE BOX BASE







MAHHOLE BOX BASE

MARK	SIZE	TYPE	WT. #/FT.	BARS	I.D. 54"	60"	66"	72"	84"	96"	FORMULAS
401	4	I	0.668	NO. REQ'D. LENGTH WEIGHT *	18 8'-1" 97.2	18 8'-8" 104.2	18 9'-3" 111.2	18 9'-10" 118.2	18 11'-0" 132.3	18 12'-2" 146.3	401 BAR LENGTH = 32" + 2W + I.D.
402	4	III	0.668	NO. REQ'D. LENGTH WEIGHT *	5 5'-5" 18.1	5 6'-0" 20.0	5 6'-7" 22.0	5 7'-2" 23.9	5 8'-4" 27.8	5 9'-6" 31.7	402 BAR LENGTH = I.D. + 2W
501	5	I	1.043	NO. REQ'D. LENGTH WEIGHT *	17 7'-5" 131.5	17 8'-0" 141.8	17 8'-7" 152.2	17 9'-2" 162.5	17 10'-4" 183.2	17 11'-6" 203.9	501 BAR LENGTH = 24" + I.D. + 2W
502	5	I	1.043	NO. REQ'D. LENGTH WEIGHT *	22 5'-0" 114.7	23 5'-0" 119.9	25 5'-0" 130.4	26 5'-0" 135.6	29 5'-0" 151.2	32 5'-0" 166.9	502 NUMBER BARS REQ'D. = $3 + \left(\frac{24+I.D.+2W}{@\ 5"} + 1\right)$
503	5	II	1.043	NO. REQ'D. LENGTH WEIGHT *	16 12'-10" 214.2	16 13'-5" 223.9	18 14'-0" 262.8	18 14'-7" 273.8	20 15'-9" 328.5	24 16'-11" 423.5	503 NUMBER BARS REQ'D. = $2\left(\frac{13+I.D.+2W}{@\ 12"} + 1\right)$ BAR LENGTH = 4'-9"+2(16+W+I.D./2)
504	5	I	1.043	NO. REQ'D. LENGTH WEIGHT *	12 8'-1" 101.2	14 8'-8" 126.6	14 9'-3" 135.1	16 9'-10" 164.1	18 11'-0" 206.5	20 12'-2" 253.8	504 NUMBER BARS REQ'D. = $2\left(\frac{2W+I.D.-4}{@\ 12"} + 1\right)$ BAR LENGTH = 32"+2W+I.D.
1101	11	I	5.313	NO. REQ'D. LENGTH WEIGHT *	4 7'-2" 152.3	4 7'-9" 164.7	4 8'-4" 177.1	4 8'-11" 189.5	4 10'-1" 214.3	4 11'-3" 239.1	1101 BAR LENGTH = 21" + I.D. + 2W
1102	11	I	5.313	NO. REQ'D. LENGTH WEIGHT *	4 2'-8" 56.7	4 2'-8" 56.7	4 2'-8" 56.7	4 2'-8" 56.7	4 2'-8" 56.7	4 56.7 2'-8"	BENDING TYPE I — STRAIGHT
1103	11	I	5.313	NO. REQ'D. LENGTH WEIGHT *	3 5'-0" 79.7	3 5'-0" 79.7	3 5'-0" 79.7	3 5'-0" 79.7	3 5'-0" 79.7	3 5'-0" 79.7	TYPE II — 4'-9" — 18"+W+I.D./2
* REINFORCING STEEL TOTAL					965.6	1,037.5	1,127.2	1,204.0	1,380.2	1,601.6	TYPE III — 12" — 12" — 7" — I.D.+2W-38"
CONCRETE - CUBIC YARDS - TOTAL					6.0	6.6	7.3	8.0	9.5	11.1	

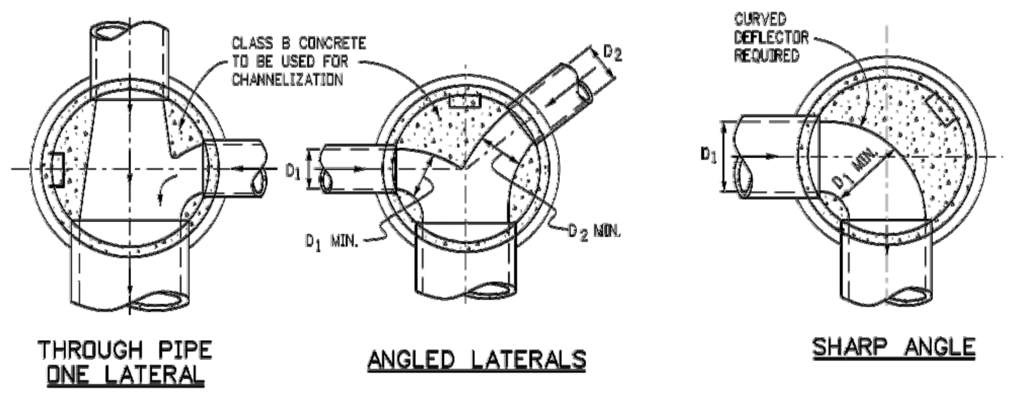
NOTE: QUANTITIES ARE BASED ON SAME SIZE PIPE ENTRANCE TO AND EXIT FROM, BASE AND A 4 FT. MANHOLE ENTRANCE INTO TOP SLAB OF BASE.

QUANTITIES FOR CONCRETE MANHOLE BOX BASE

GENERAL NOTES

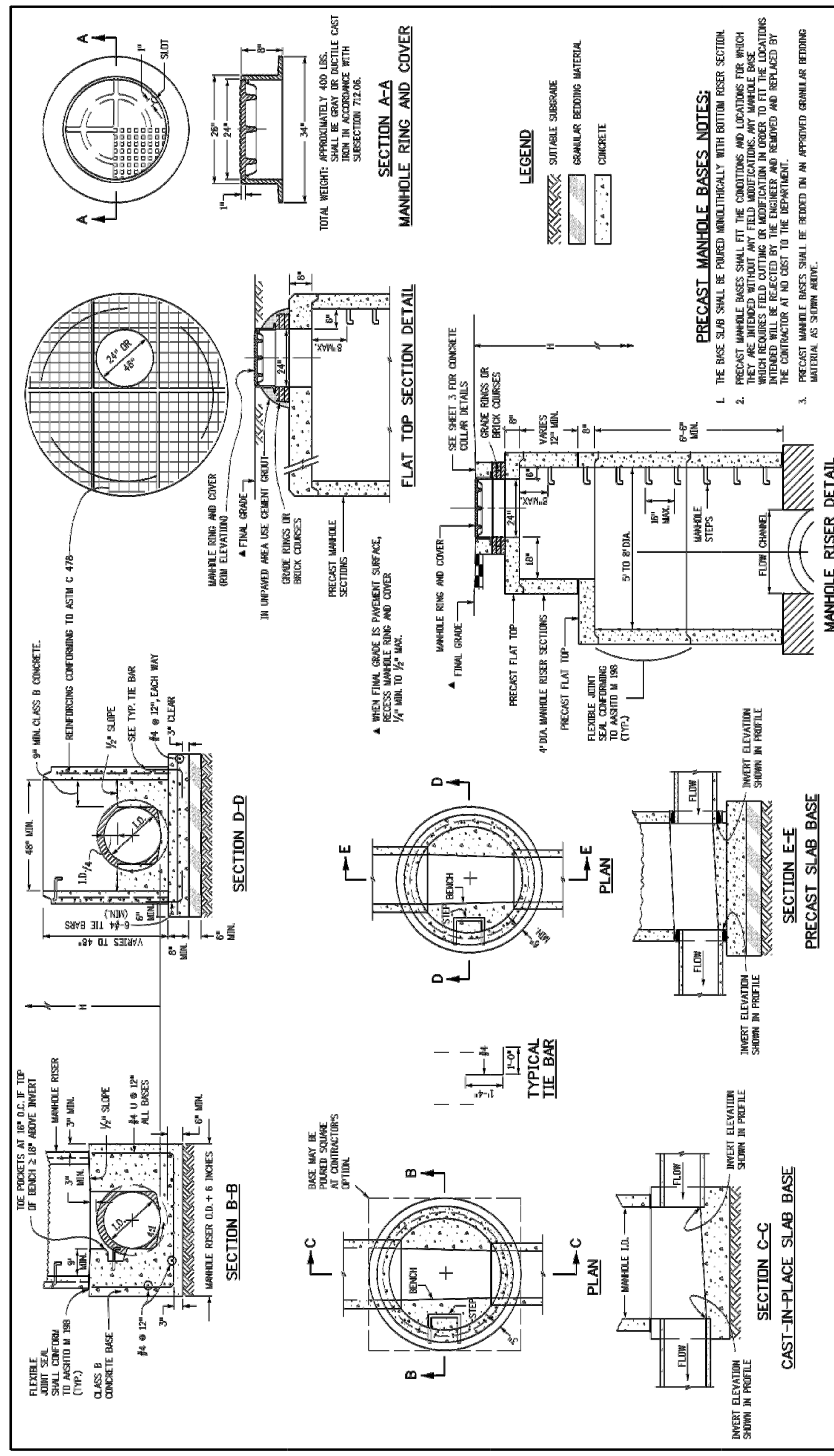
1. SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
2. THE PRECAST FLAT TOP MAY BE USED ON ANY MANHOLE. THE ECCENTRIC CONE MAY BE USED WHEN THE MANHOLE "H" HEIGHT IS AT LEAST 8 FT.
3. THE MANHOLE RING FRAME SHALL BE SET IN A BED OF GROUT. THE FRAME SHALL BE SURROUNDED WITH A CEMENT GROUT IN UNPAVED AREA, OR A CONCRETE COLLAR IN PAVED AREA. SEE DETAILS ON SHEETS 2 AND 3.
4. DESIGN OF BOX BASE IS BASED ON STRAIGHT RUNS OF PIPE OR CHANGE IN DIRECTION OF LESS THAN 45°. SPECIAL DESIGN IS REQUIRED FOR 45° OR GREATER.
5. PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO AASHTO M 199 (ASTM C 478).
6. CAST-IN-PLACE MANHOLES SHALL BE CLASS B CONCRETE.
7. STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3 FT.-6 IN. AND SHALL CONFORM TO AASHTO M 199.
8. ALL REINFORCING STEEL SHALL BE GRADE 60 AND EPOXY COATED. VERTICAL STEEL SHALL BE PLACED AT CENTERLINE OF WALL. ALL BARS SHALL HAVE A 2 IN. MINIMUM CLEARANCE.
9. ALL PIPE ENTRIES INTO THE BASE OF MANHOLE SHALL BE CONNECTED BY OPEN CHANNELIZATION ADJUSTED FOR PIPE SIZE, SHAPE, SLOPE, AND DIRECTION OF FLOW. DETAILS SHOWN ARE TYPICAL FOR INSTALLATIONS WITH ALL INVERTS OF SAME RELATIVE ELEVATION. FOR EXCESSIVE ELEVATION DIFFERENCE BETWEEN INVERTS, SPECIAL BASE/CHANNEL DETAILS WILL BE SHOWN ON THE PLANS.
10. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
11. STUB-OUTS SHALL EXTEND 2 FT. MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED.
12. THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE.

▲ WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER 1/4" MIN. TO 1/2" MAX.



TYPICAL CHANNELIZATION DETAILS

Computer File Information		Sheet Revisions		Colorado Department of Transportation	MANHOLES	STANDARD PLAN NO.
Creation Date: 07/04/12 Initials: DD		Date:	Comments	4201 East Arkansas Avenue, Denver, Colorado 80222, Phone: (303) 757-9083, Fax: (303) 757-9820		M-604-20
Last Modification Date: 07/04/12 Initials: LTA	(R-X)					
Full Path: www.coloradodot.info/business/designsupport	(R-X)			Project Development Branch DD/LTA	Issued By: Project Development Branch July 4, 2012	Sheet No. 1 of 3
Drawing File Name: M06040200103.dgn	(R-X)					
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)					



▲ WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER 1/4" MIN. TO 1/2" MAX.

LEGEND

- SUITABLE SUBGRADE
- GRANULAR BEDDING MATERIAL
- CONCRETE

PRECAST MANHOLE BASES NOTES:

1. THE BASE SLAB SHALL BE POURED MONOLITHICALLY WITH BOTTOM RISER SECTION.
2. PRECAST MANHOLE BASES SHALL FIT THE CONDITIONS AND LOCATIONS FOR WHICH THEY ARE INTENDED WITHOUT ANY FIELD MODIFICATIONS. ANY MANHOLE BASE WHICH REQUIRES FIELD CUTTING OR MODIFICATION IN ORDER TO FIT THE LOCATIONS INTENDED WILL BE REJECTED BY THE ENGINEER AND REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT.
3. PRECAST MANHOLE BASES SHALL BE BEDDED ON AN APPROVED GRANULAR BEDDING MATERIAL AS SHOWN ABOVE.

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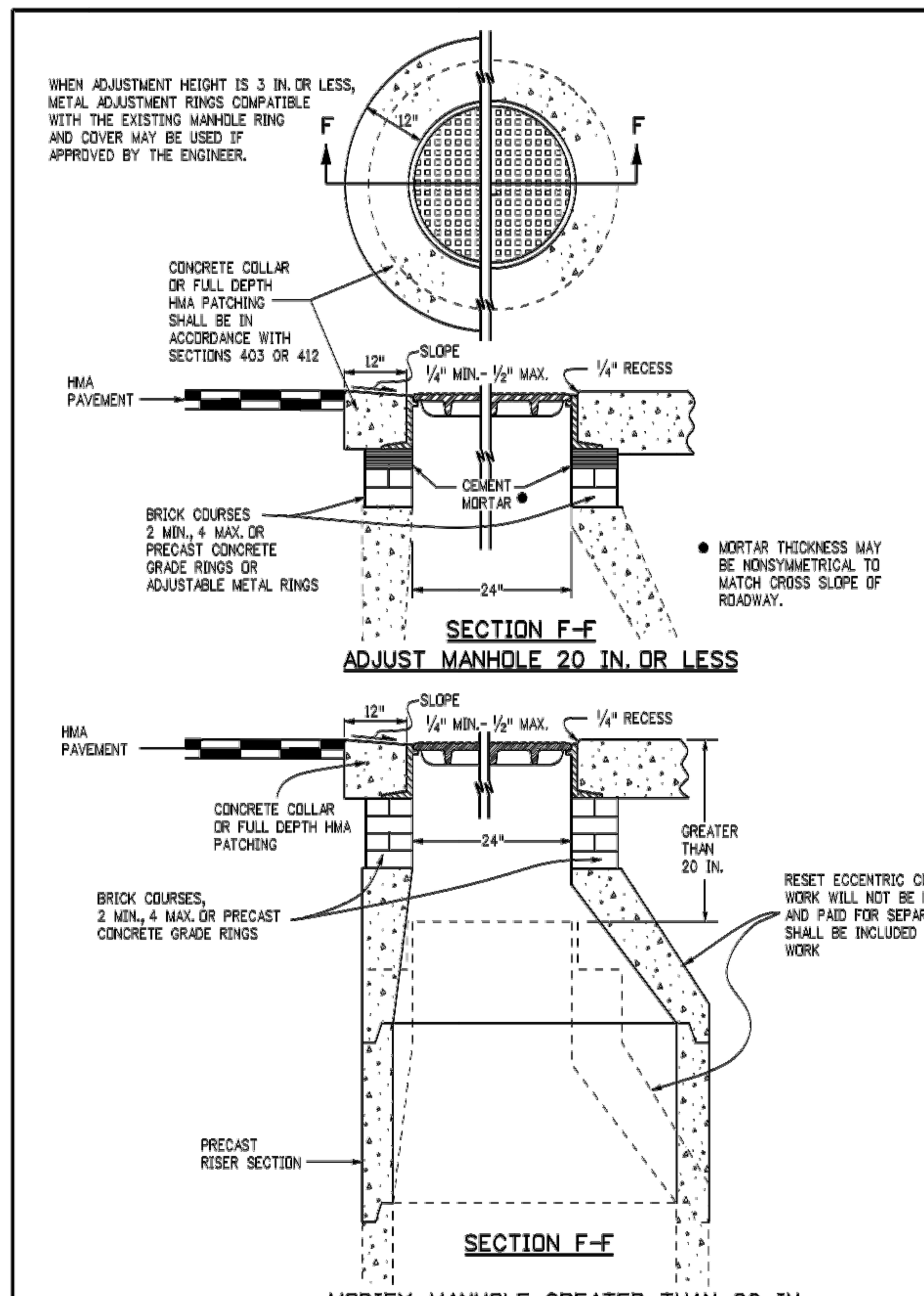
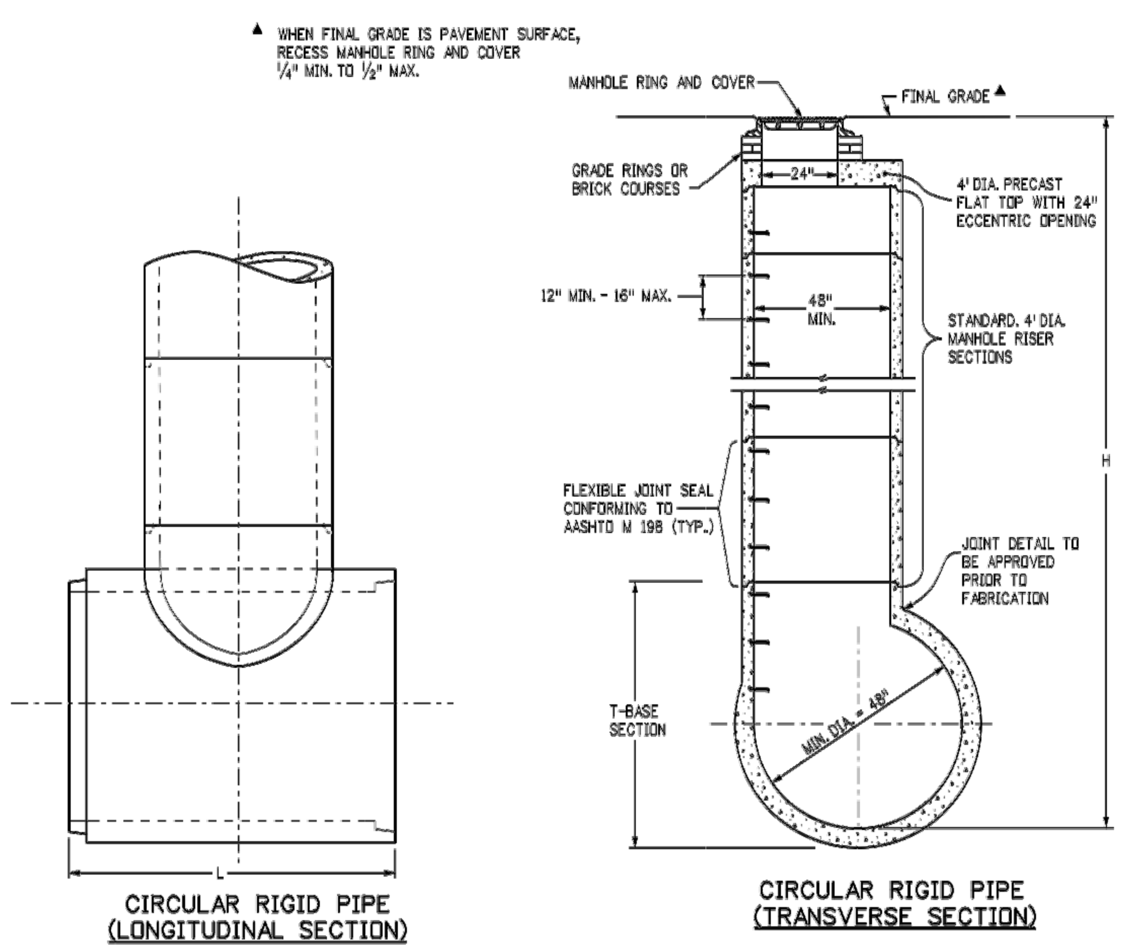
Last Modification Date: 07/04/12 Initials: LTA	(R-X)					
Full Path: www.coloradodot.info/business/designsupport	(R-X)			Project Development Branch DD/LTA	Issued By: Project Development Branch July 4, 2012	Sheet No. 2 of 3
Drawing File Name: M06040200203.dgn	(R-X)					
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)					



T-BASE MANHOLES NOTES

1. THE T-BASE SECTION SHALL BE SHOP-FABRICATED FOR DELIVERY TO THE CONSTRUCTION SITE AS A COMPLETE UNIT.
2. THESE DETAILS SHOW ONLY THE CONCEPTUAL AND STANDARD DIMENSIONAL REQUIREMENTS FOR TYPE T-BASE MANHOLES. THE CONTRACTOR SHALL FURNISH DETAILED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. THE DETAILS SHOWN HEREIN APPLY ONLY TO 48 IN. AND GREATER DIAMETER PIPES.
3. EXCEPT FOR CLASS OF PIPE, SPECIFICATIONS FOR THE MANHOLE SHALL BE THE SAME AS THOSE REQUIRED FOR THE ADJOINING PIPE.
4. THE T-BASE SECTION SHALL MAINTAIN ITS INTERNAL SHAPE AND FLOW AREA. GROUTING OR FILLING SHALL BE APPLIED SO AS TO NOT DISTURB THE NORMAL FLOW OR REDUCE THE AREA.

▲ WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER 1/4" MIN. TO 1/2" MAX.



MANHOLE T-BASE

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Creation Date: 07/04/12 Initials: DD		Date:	Comments	4201 East Arkansas Avenue, Denver, Colorado 80222, Phone: (303) 757-9083, Fax: (303) 757-9820		M-604-20
Last Modification Date: 07/04/12 Initials: LTA	(R-X)					
Full Path: www.coloradodot.info/business/designsupport	(R-X)			Project Development Branch DD/LTA	Issued By: Project Development Branch July 4, 2012	Sheet No. 3 of 3
Drawing File Name: 6040200303.dgn	(R-X)					
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)					

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303-232-8088

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REVISIONS

△	DATE	DESCRIPTION
	10/24/17	INITIAL SUBMITTAL

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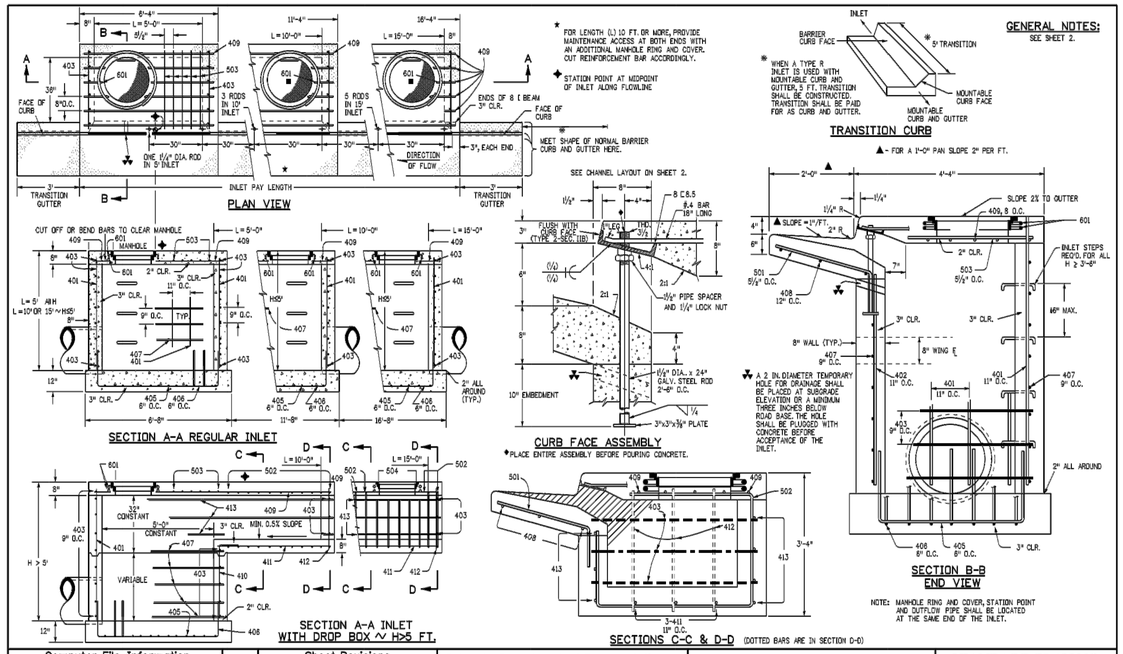
PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C4.90



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Drawing File Name: 8040120102.dgn	(R-X)		
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)		

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax (303) 757-9820
Project Development Branch DD/LTA

CURB INLET TYPE R

Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO.
M-604-12
Sheet No. 1 of 2

MARK	BAR # OR SIZE	O.C. SPACING	TYPE	ALL INLETS L = 5 FT. NO. REQ'D.	ALL INLETS L = 5 FT. LENGTH	INLETS: H ≤ 5 FT. L = 10 FT. NO. REQ'D.	INLETS: H ≤ 5 FT. L = 10 FT. LENGTH	INLETS: H ≤ 5 FT. L = 15 FT. NO. REQ'D.	INLETS: H ≤ 5 FT. L = 15 FT. LENGTH	INLETS: H > 5 FT. L = 10 FT. NO. REQ'D.	INLETS: H > 5 FT. L = 10 FT. LENGTH	INLETS: H > 5 FT. L = 15 FT. NO. REQ'D.	INLETS: H > 5 FT. L = 15 FT. LENGTH
401	4	11"	II	15	*	21	*	26	*	11	*	11	*
402	4	11"	II	7	*	13	*	18	*	7	*	7	*
403	4	9"	II	*	4'-0"	*	4'-5"	*	4'-5"	*	4'-0"	*	4'-0"
405	4	6"	VI	11	6'-10"	21	6'-10"	31	6'-10"	11	6'-10"	11	6'-10"
406	4	6"	VIII	7	8'-10"	7	13'-10"	7	18'-10"	7	8'-10"	7	8'-10"
407	4	9"	II	*	5'-10"	*	10'-10"	*	15'-10"	*	5'-10"	*	5'-10"
408	4	12"	II	3	8'-10"	3	13'-10"	3	18'-10"	3	13'-10"	3	18'-10"
409	4	8"	II	6	5'-10"	6	10'-10"	6	15'-10"	6	10'-10"	6	15'-10"
410	4	11"	VII							3		3	*
411	4	11"	II							3	6'-10"	3	10'-2"
412	4	11"	II							3	2'-6"	3	2'-6"
413	4	9"	II							7	10'-10"	7	15'-10"
501	5	5 1/8"	IV	11	3'-4"	22	3'-4"	33	3'-4"	22	3'-4"	33	3'-4"
502	5	5 1/8"	III							11	11'-5"	17	11'-5"
503	5	5 1/8"	II	5	3'-6"	16	3'-6"	27	3'-6"	6	3'-6"	6	3'-6"
504	5	5 1/8"	IX									5	8'-4"
601	6	2 1/8"	V	2	8'-10"	2	8'-10"	2	8'-10"	2	8'-10"	4	8'-10"
■BCB.5				1	5'-10"	1	10'-10"	1	15'-10"	1	10'-10"	1	15'-10"
				2 BARS, 1 RODS	—	4 BARS, 3 RODS	—	6 BARS, 5 RODS	—	4 BARS, 3 RODS	—	6 BARS, 5 RODS	—
						REGULAR INLETS				DROP BOX INLETS			

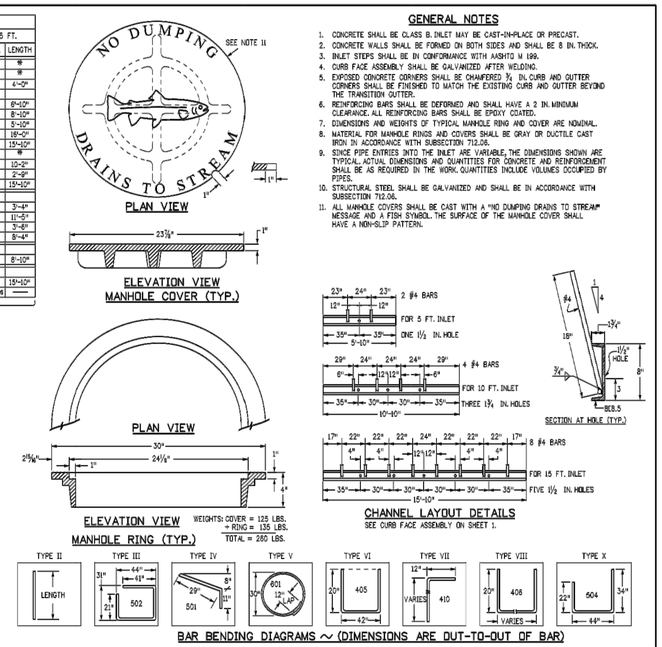
* VARIABLE REFER TO TABLE TWO.
■ INCLUDE #4, 18 IN. BARS (SEE CHANNEL LAYOUT).

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

"H"	LENGTH 401	LENGTH 402	LENGTH 410	NO. REQ'D. REGULAR 403	NO. REQ'D. REGULAR 407	NO. REQ'D. DROP BOX 403	NO. REQ'D. DROP BOX 407	L = 5 FT. CONC. CU. YDS.	L = 5 FT. STEEL LBS.	L = 10 FT. CONC. CU. YDS.	L = 10 FT. STEEL LBS.	L = 15 FT. CONC. CU. YDS.	L = 15 FT. STEEL LBS.
3'-0"	2'-8"	1'-8"		10	7			3.2	285	5.3	497	7.4	706
3'-6"	3'-2"	2'-2"		10	7			3.4	305	5.7	528	7.9	747
4'-0"	3'-8"	2'-8"		12	9			3.7	326	6.0	559	8.4	786
4'-6"	4'-2"	3'-2"		12	9			3.9	334	6.4	571	8.8	803
5'-0"	4'-8"	3'-8"		14	11			4.1	354	6.7	602	9.3	844
5'-6"	5'-2"	4'-2"	3'-5"	16	13	15	8	4.4	375	6.0	607	7.4	850
6'-0"	5'-8"	4'-8"	3'-11"	16	13	16	8	4.8	382	6.2	616	7.8	860
6'-6"	6'-2"	5'-2"	4'-5"	18	15	18	9	4.8	402	6.4	637	7.8	880
7'-0"	6'-8"	5'-8"	4'-11"	20	17	19	10	5.0	423	6.8	654	8.0	897
7'-6"	7'-2"	6'-2"	5'-5"	20	17	20	10	5.3	430	6.9	664	8.3	907
8'-0"	7'-8"	6'-8"	5'-11"	22	19	22	12	5.5	451	7.1	684	8.5	927
8'-6"	8'-2"	7'-2"	6'-5"	24	21	23	14	5.7	471	7.3	702	8.7	944
9'-0"	8'-8"	7'-8"	6'-11"	24	21	24	14	6.0	479	7.6	711	9.0	954
9'-6"	9'-2"	8'-2"	7'-5"	26	23	26	16	6.2	499	7.8	732	9.3	974
10'-0"	9'-8"	8'-8"	7'-11"	28	25	27	18	6.4	520	8.0	749	9.4	992
10'-6"	10'-2"	9'-2"	8'-5"	28	25	28	18	6.7	527	8.3	759	9.7	1001
11'-0"	10'-8"	9'-8"	8'-11"	30	27	30	20	6.9	547	8.5	779	9.9	1022

NOTES: FOR L = 5 FT., L = 10 FT., AND L = 15 FT.
REGULAR INLETS: TOTAL QUANTITIES NEEDED ARE OUTSIDE THE HEAVY BLACK LINE.
DROP BOX INLETS: TOTAL QUANTITIES NEEDED ARE INSIDE THE HEAVY BLACK LINE.
STEEL WEIGHTS DO NOT INCLUDE STRUCTURAL STEEL CHANNEL.

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"



GENERAL NOTES

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 IN. THICK.
3. INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
4. CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾ IN. CURB AND GUTTER CORNERS SHALL BE FINISHED TO MATCH THE EXISTING CURB AND GUTTER BEYOND THE TRANSITION GUTTER.
6. REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
7. DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
8. MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.
9. SINCE PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK. QUANTITIES INCLUDE VOLUMES OCCUPIED BY PIPES.
10. STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
11. ALL MANHOLE COVERS SHALL BE CAST WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE AND A FISH SYMBOL. THE SURFACE OF THE MANHOLE COVER SHALL HAVE A NON-SLIP PATTERN.

Computer File Information		Sheet Revisions	
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Last Modification Date: 07/04/12 Initials: LTA	(R-X)		
Full Path: www.coloradodot.info/business/designsupport	(R-X)		
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CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)		

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CURB INLET TYPE R

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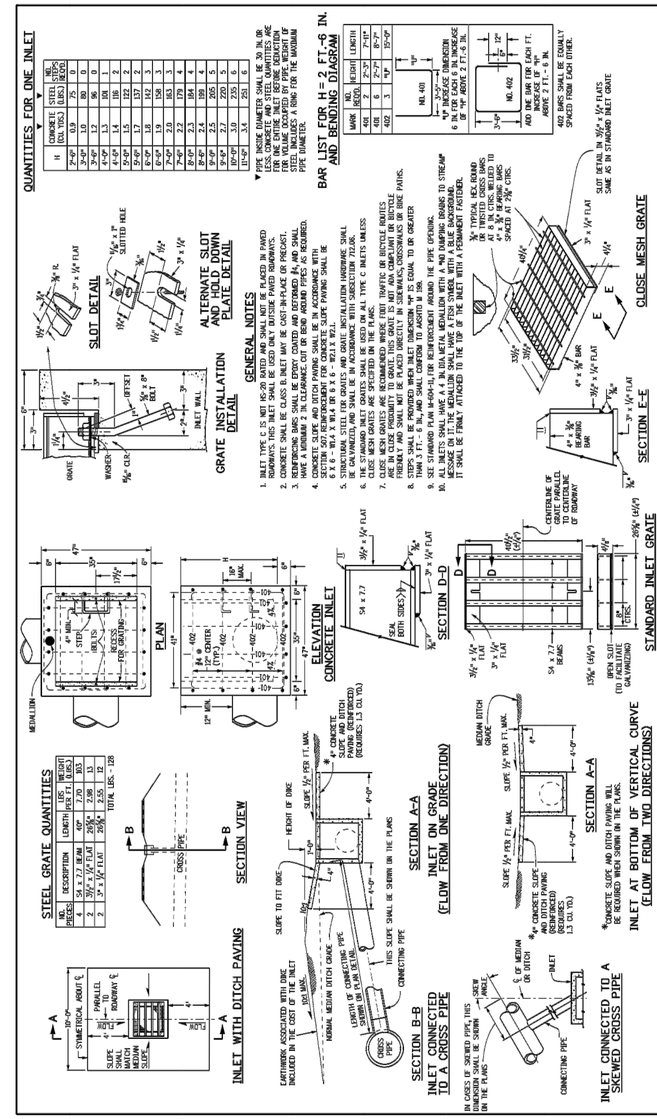

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INLET, TYPE C

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STANDARD PLAN NO.
M-604-10
Sheet No. 1 of 1

DATE	DESCRIPTION	REVISIONS
10/24/17	INITIAL SUBMITTAL	

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC.

STORM SEWER PLAN DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

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, PUBLIC WORKS DIRECTOR DATE

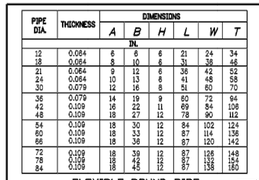
TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION DATE

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C4.91

PIPE DIA.	THICKNESS	DIMENSIONS A	B	H	L	W	T
		IN.					
12	0.064	6	6	6	21	24	34
18	0.064	8	10	6	31	36	46
21	0.064	9	12	6	36	42	52
24	0.064	10	13	6	41	48	58
30	0.079	12	16	8	51	60	70
36	0.079	14	19	9	60	72	94
42	0.109	16	22	11	69	84	108
48	0.109	18	27	12	78	90	112
54	0.109	18	30	12	84	102	124
60	0.109	18	33	12	87	114	136
66	0.109	18	36	12	87	120	142
72	0.109	18	39	12	87	126	148
78	0.109	18	42	12	87	132	154
84	0.109	18	45	12	87	138	160



FLEXIBLE ROUND PIPE

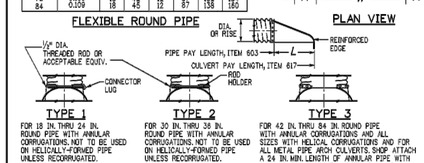
PLAN VIEW

PIPE ARCH SPAN x RISE	THICKNESS	DIMENSIONS A (41%)	B (MAX.)	H (41%)	L (41.5%)	W (62%)	T
		IN.					
21 x 15	0.064	7	10	6	23	38	46
24 x 18	0.064	8	12	6	28	42	52
28 x 20	0.064	9	14	6	32	48	58
35 x 24	0.079	10	16	6	39	60	70
42 x 29	0.079	12	18	8	46	75	85
49 x 33	0.109	13	21	9	53	85	103
57 x 38	0.109	18	26	12	63	90	108
64 x 43	0.109	18	30	12	70	102	120
71 x 47	0.109	18	33	12	77	114	132

FLEXIBLE PIPE ARCH

GENERAL NOTES

1. DIMENSIONS OF END SECTIONS MAY VARY SLIGHTLY FROM THOSE SHOWN ON THE TABLES DUE TO DIFFERENT MANUFACTURERS' CONFIGURATIONS.
2. CONCRETE END SECTIONS SHALL BE FURNISHED WITH TONGUE OR GROOVE AS REQUIRED.
3. DESIGN LENGTH OF PIPE OR SIDE DRAIN IS BASED ON LENGTH OF END SECTION SHOWN IN TABLE. ANY ADDITIONAL PIPE REQUIRED TO PROVIDE THE DESIGN LENGTH SHALL BE FURNISHED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
4. THE INSIDE CONFIGURATION AND THE JOINT OF CONCRETE END SECTION AND PIPE SHALL MATCH.
5. END SECTIONS FOR CMP ARCH PIPE SHALL MATCH THE DIMENSIONS OF THE PIPE SHOWN ON THE PLANS.
6. GALVANIZED TOE PLATE AS SHOWN IS REQUIRED ON END SECTIONS FOR CORRUGATED STEEL PIPE AND SHALL BE THE SAME THICKNESS AS END SECTIONS. TOE PLATE SHALL BE FIELD-BOLTED TO END SECTION WITH ¾" DIA GALVANIZED BOLTS, NUTS AND WASHERS.
7. GALVANIZED STEEL SHALL CONFORM TO AASHTO M 111, M 218 OR M 232.
8. FOR TYPE 30 END SECTIONS, BARS SHALL BE FABRICATED FROM NPG-3 GALVANIZED STEEL SCHEDULE 40 PIPE WHICH SHALL CONFORM TO ASTM A 53.
9. FOR A TYPE 30 END SECTION, THE INSTALLATION OF ALTERNATIVE 1 OR ALTERNATIVE 2 END SECTION SHALL BE THE CONTRACTOR'S OPTION.
10. CONCRETE PIPE JOINT FASTENERS, WHERE SHOWN ON PLANS, SHALL BE INSTALLED SO THAT A MINIMUM OF 15 LINEAR FEET OF THE OUTLET END OF THE PIPE ARE MECHANICALLY LOCKED TOGETHER. END SECTION LENGTHS WHEN USED, SHALL BE INCLUDED IN THE 15 LF REQUIREMENT.
11. CONNECTIONS OF METAL END SECTIONS TO PLASTIC PIPE SHALL BE APPROVED BY THE ENGINEER. PLASTIC END SECTIONS SHALL NOT BE USED.
12. THE END SECTION STYLE, EITHER REGULAR OR SAFETY, SHALL BE AS SHOWN ON THE PLANS.



TYPE 1

FOR 18 IN. THRU 24 IN. ROUND PIPE WITH ANNULAR CORRUGATIONS. NOT TO BE USED ON HELICALLY-FORMED PIPE UNLESS RECORRUGATED.

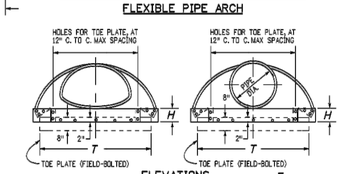
TYPE 2

FOR 30 IN. THRU 38 IN. ROUND PIPE WITH ANNULAR CORRUGATIONS. NOT TO BE USED ON HELICALLY-FORMED PIPE UNLESS RECORRUGATED.

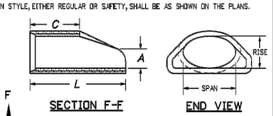
TYPE 3

FOR 42 IN. THRU 84 IN. ROUND PIPE WITH ANNULAR CORRUGATIONS AND ALL SIZES WITH HELICAL CORRUGATIONS AND FOR ALL METAL PIPE ARCH CULVERTS. SHOP ATTACH A 24 IN. MIN. LENGTH OF ANNULAR PIPE WITH GALV. RIVETS OR BOLTS, SPOT WELDS, OR 2 IN. LONG SKIP WELDS ON 8 IN. CTRS. REPAIR BURNT GALVANIZING IN ACCORDANCE WITH SUBSECTION 707.09.

TYPICAL CONNECTIONS



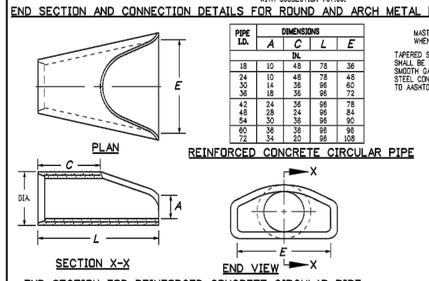
ELEVATIONS



SECTION F-F

END VIEW

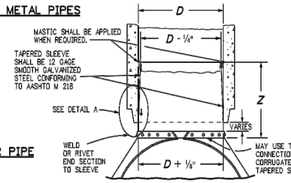
END SECTION AND CONNECTION DETAILS FOR ROUND AND ARCH METAL PIPES



END SECTION FOR REINFORCED CONCRETE CIRCULAR PIPE

PIPE I.D.	DIMENSIONS A	C	L	E
	IN.			
18	10	48	78	36
24	10	48	78	48
30	14	36	96	60
36	18	36	96	72
42	24	36	96	78
48	28	24	96	84
54	30	38	96	90
60	36	38	96	96
72	34	20	96	108

REINFORCED CONCRETE CIRCULAR PIPE

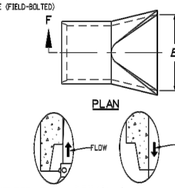


D	Z (MIN.)
IN.	
18 - 24	12
30 AND 38	16
42 AND LARGER	24

NOTE: METAL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING.

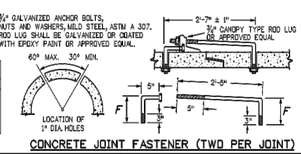
STEEL END SECTION FOR CONCRETE CIRCULAR PIPE

(ALTERNATIVE FOR CONCRETE END SECTION)



EQUIVALENT CIRCULAR DIA.	DIMENSIONS NOMINAL SPAN x RISE	A	C	L	E
		IN.			
24	30 19	9	33	72	48
30	38 24	10	18	72	60
36	45 29	12	24	84	72
42	53 34	15	38	96	78
48	60 38	21	38	96	84
54	68 43	28	38	96	90
60	76 48	30	38	96	96

END SECTION FOR REINFORCED CONCRETE ELLIPTICAL PIPE



PIPE DIAMETER IN.	F
18 - 30	5
36 - 42	6
48 - 60	7
72 - 84	9

CONCRETE JOINT FASTENER (TWO PER JOINT)

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Last Modification Date: 07/04/12	Initials: LTA
Full Path: www.coloradodot.info/business/designsupport	
Drawing File Name: 8010100102.dgn	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	

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CONCRETE AND METAL END SECTIONS

STANDARD PLAN NO.
M-603-10
Sheet No. 1 of 2

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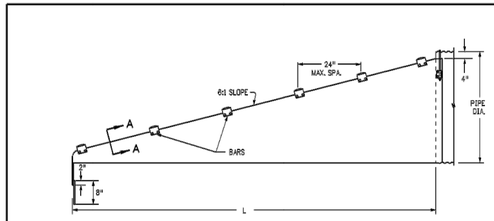
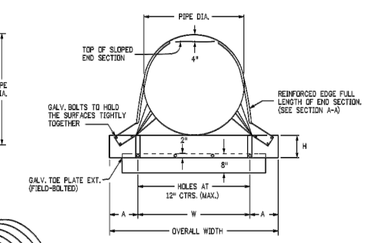


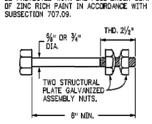
SIDE VIEW OF END SECTION - ALTERNATIVE 1



FRONT VIEW - ALTERNATIVE 1

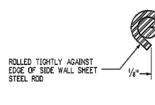
(BARS NOT SHOWN)

NOTE: ALL CUT OR WELDED SURFACES SHALL BE PROTECTED WITH ONE FULL BRUSH COAT OF ZINC RICH PAINT IN ACCORDANCE WITH SUBSECTION 707.09.

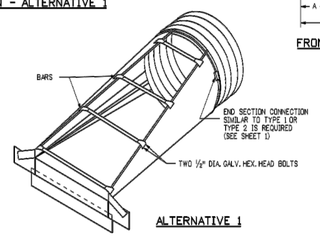


TYPICAL ANCHOR BOLT

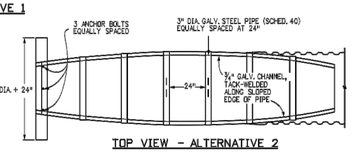
(GALVANIZED)



SECTION A-A



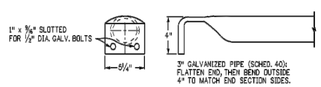
ALTERNATIVE 1



TOP VIEW - ALTERNATIVE 2

END SECTIONS FOR CIRCULAR PIPES

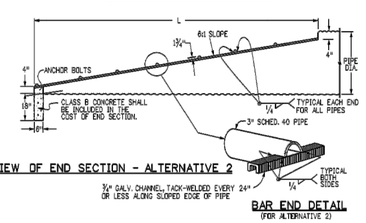
PIPE DIA. (IN.)	MIN. THICK (IN.)	DIMENSION (IN.) A	H	W	OVERALL WIDTH	SLOPE	LENGTH (L)
15	.064	8	6	21	37	6:1	30
18	.064	8	6	24	40	6:1	48
21	.064	8	6	27	43	6:1	66
24	.079	8	6	30	46	6:1	84
30	.079	12	9	36	60	6:1	120
36	.109	12	9	42	66	6:1	156



BAR END DETAILS

(FOR ALTERNATIVE 1)

TYPE SD END SECTIONS FOR SIDE DRAIN



SIDE VIEW OF END SECTION - ALTERNATIVE 2

BAR END DETAIL

(FOR ALTERNATIVE 2)

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Last Modification Date: 07/04/12	Initials: LTA
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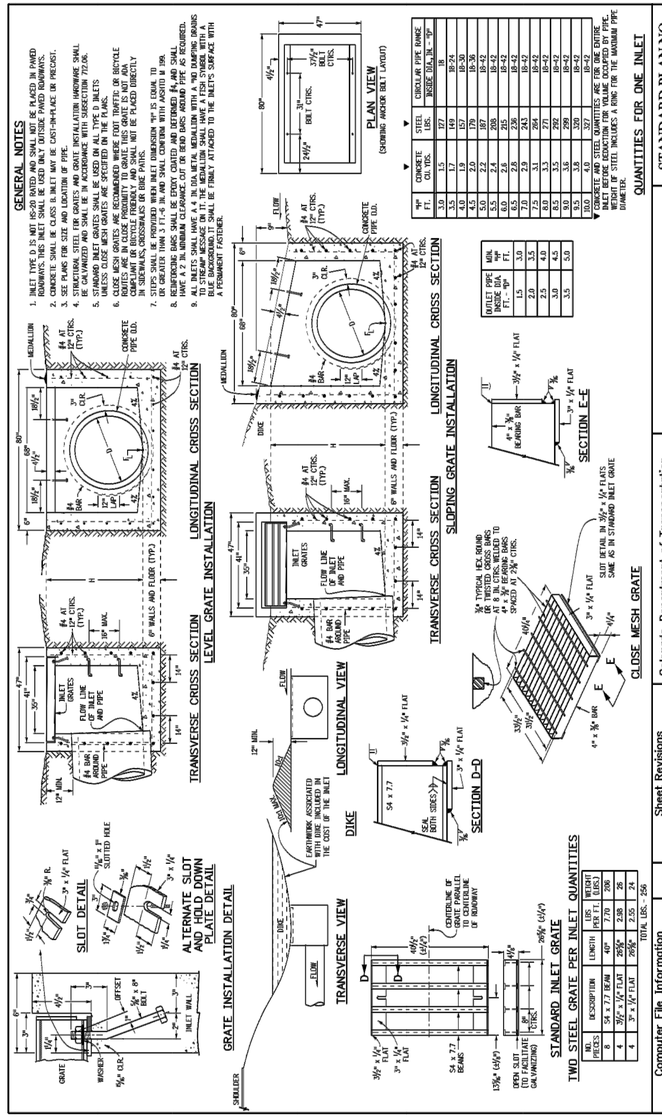
CONCRETE AND METAL END SECTIONS

STANDARD PLAN NO.
M-603-10
Sheet No. 2 of 2

Issued By: Project Development Branch July 4, 2012

GENERAL NOTES

1. INLET TYPE D IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED AREAS SUBJECT TO VEHICULAR TRAFFIC. CONCRETE SHALL BE CLASS B, BUT MAY BE CAST-IN-PLACE OR PRECAST.
2. CONCRETE PIPE SIZE AND LOCATION OF PIPE.
3. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 722.06.
4. THE INSIDE CONFIGURATION AND THE JOINT OF CONCRETE INLETS AND PIPE SHALL MATCH UNLESS CLOSE MESH GRATES ARE SPECIFIED IN THE PLANS.
5. CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE TRAFFIC IS EXPECTED. WHEN CLOSE MESH GRATES ARE USED, THE GRATE SHALL BE COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
6. CONCRETE FOR INLET SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,715 PSI OR GREATER, TYPE 3 IT-45 IN, AND SHALL CONFORM WITH AASHTO M 199.
7. REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4 AND SHALL HAVE A 2" IN. MINIMUM CLEARANCE, CUT OR BENT BARS ARE NOT PERMITTED.
8. ALL STEEL SHALL HAVE A MINIMUM OF 2" IN. COVER. ALL STEEL SHALL BE PROTECTED TO STREAM MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FINALY ATTACHED TO THE INLET'S SURFACE WITH A PERMANENT STEEL.



CONCRETE FT. CU. YDS.	STEEL LBS.	CIRCULAR PIPE BHNCE INSIDE DIA. IN. "D"
3.0	1.5	177	18
3.5	1.7	149	18-24
4.0	1.9	157	18-30
4.5	2.0	179	18-36
5.0	2.2	187	18-42
5.5	2.4	205	18-42
6.0	2.6	235	18-42
6.5	2.8	243	18-42
7.0	2.9	254	18-42
7.5	3.1	292	18-42
8.0	3.3	299	18-42
8.5	3.5	320	18-42
9.0	3.6	327	18-42
9.5	3.8	330	18-42
10.0	4.0	337	18-42

▼ CONCRETE AND STEEL QUANTITIES ARE FOR ONE ENTIRE INLET BEFORE EXCAVATION FOR VOLUME OCCUPIED BY PIPE. WHERE STEEL INCLUDES A BHNC FOR THE MAXIMUM PIPE DIAMETER.

QUANTITIES FOR ONE INLET

OUTLET PIPE INSIDE DIA. FT. - "D"	MIN. "H" FT.
1.5	3.0
2.0	3.5
2.5	4.0
3.0	4.5
3.5	5.0

TWO STEEL GRATE PER INLET QUANTITIES				
NO. PIECES	DESCRIPTION	LENGTH	WEIGHT PER FT.	WEIGHT LBS.
8	54 x 7.7 BEAM	40"	7.70	206
4	⅜" x ¼" FLAT	25⅝"	2.68	26
4	3" x ¼" FLAT	29⅝"	2.55	24
			TOTAL LBS.	256

Computer File Information	
Creation Date: 07/04/12	Initials: DD
Last Modification Date: 07/04/12	Initials: LTA
Full Path: www.coloradodot.info/business/designsupport	
Drawing File Name: 6040100100.dgn	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	

Sheet Revisions	
Date:	Comments

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820
Project Development Branch DD/LTA

INLET, TYPE D

STANDARD PLAN NO.
M-604-11
Sheet No. 1 of 1

Issued By: Project Development Branch July 4, 2012

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION DATE

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-235-5255

PREPARED UNDER THE DIRECT SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION	REVISIONS
10/24/17	INITIAL SUBMITTAL	

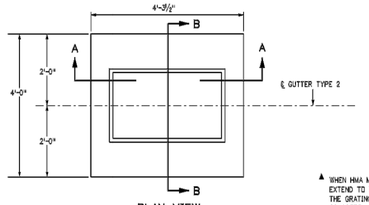
STORM SEWER PLAN DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

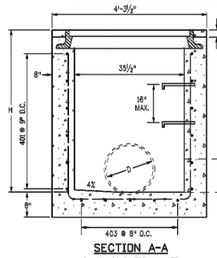
SHEET

C4.92

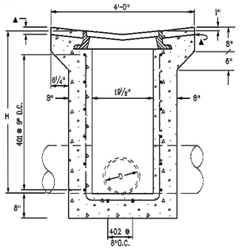


PLAN VIEW
TYPE 13 INLET FOR GUTTER TYPE 2

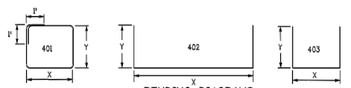
▲ WHEN HMA MATERIAL IS TO EXTEND TO THE EDGE OF THE GRATING FRAME, CONCRETE MAY BE DEPRESSED.



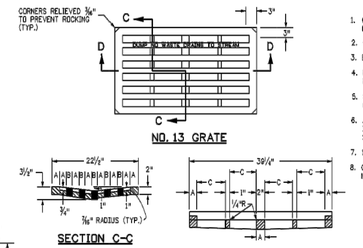
SECTION A-A
D MAX = 30 IN. FOR H > 4 FT.



SECTION B-B
D MAX = 18 IN. FOR ALL H



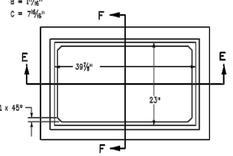
BENDING DIAGRAMS
ALL DIMENSIONS ARE OUT-TO-OUT OF BAR.



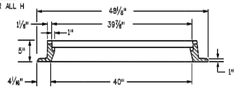
NO. 13 GRATE

SECTION C-C

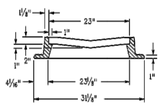
SECTION D-D



NO. 13 GRATING & FRAMES



SECTION E-E
APPROXIMATE WEIGHT = 590 LBS.



SECTION F-F

GENERAL NOTES

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
3. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾ IN.
4. REINFORCING BARS SHALL BE DEFORMED #4 AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
5. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT.-6 IN. AND SHALL CONFORM TO AASHTO M 199.
6. ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.05. GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND HS 20 LOADING.
7. STATION POINT IS AT THE CENTER OF THE INLET.
8. GRATE SHALL HAVE "DUMP NO WASTE DRAINS TO STREAM" MESSAGE CAST ON SURFACE.

H	CONCRETE	REINFORCING STEEL	NO. OF #01 BARS REQ'D.	MAXIMUM PIPE I.D.	
				SEC. A-A	SEC. B-B
	CU. YDS.	@ LB.		IN.	IN.
3'-0"	1.3	72	4	18	18
3'-6"	1.5	76	4	24	18
4'-0"	1.6	90	5	30	18
4'-6"	1.8	104	6	30	18
5'-0"	1.9	109	6	30	18
5'-6"	2.1	122	7	30	18
6'-0"	2.2	136	8	30	18
6'-6"	2.4	141	8	30	18
7'-0"	2.5	154	9	30	18
7'-6"	2.7	168	10	30	18
8'-0"	2.8	173	10	30	18
8'-6"	3.0	187	11	30	18
9'-0"	3.1	200	12	30	18
9'-6"	3.3	205	12	30	18
10'-0"	3.4	219	13	30	18

@ INCLUDES 1% FOR OVERRUN.
NOTE: CONCRETE QUANTITIES INCLUDE VOLUME OCCUPIED BY PIPE.

QUANTITIES FOR ONE INLET

MARK	NO. REQ'D.	DIMENSIONS		LENGTH
		X	Y	
401	4	3'-0"	2'-2"	13'-4"
402	2	3'-4½"	* 2'-6½"	8'-5½"
403	5	2'-1½"	* 2'-7"	7'-2½"

* ADD 6 IN. TO THIS DIMENSION FOR EACH 6 IN. INCREASE OF "H" OVER 3 FT.-0 IN.

BAR LIST FOR H = 3 FT.-0 IN.

Computer File Information	
Creation Date: 07/04/12	Initials: DD
Last Modification Date: 07/04/12	Initials: LTA
Full Path: www.coloradodot.info/business/designsupport	(R-X)
Drawing File Name: 8040130101.dgn	(R-X)
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)

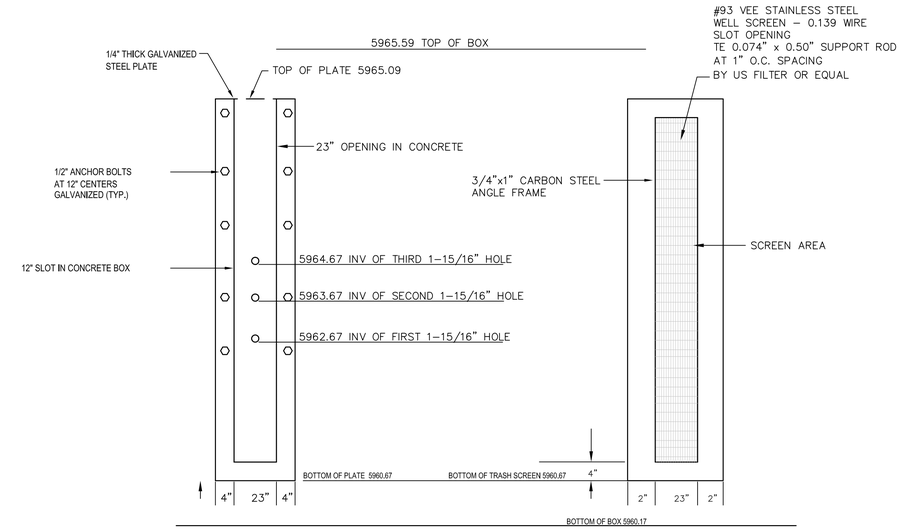
Sheet Revisions	
Date:	Comments

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820
Project Development Branch DD/LTA

CONCRETE INLET
TYPE 13

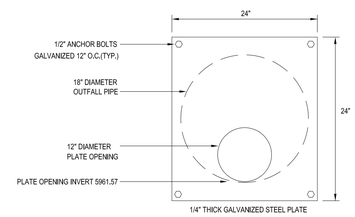
Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO.
M-604-13
Sheet No. 1 of 1



EURV PLATE
MOUNT ON INSIDE OF INLET BOX

TRASH SCREEN
MOUNT ON OUTSIDE OF INLET BOX



100 YEAR
ORIFICE PLATE

OUTLET STRUCTURE DETAILS

NOT TO SCALE

WHITE BACKGROUND

WARNING
UNAUTHORIZED MODIFICATION OF THIS OUTLET IS A ZONING CODE VIOLATION

0.75 SQ.FT. SIGN – MOUNT ON OUTLET STRUCTURE BOX

RED LETTERING

WARNING SIGN DETAIL
NOT TO SCALE

WHITE BACKGROUND

WARNING
THIS AREA IS A STORMWATER FACILITY AND IS SUBJECT TO PERIODIC FLOODING

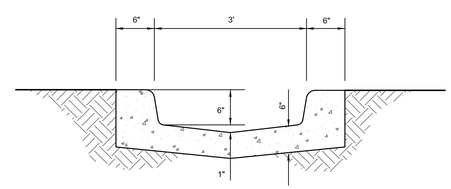
3.00 SQ.FT. SIGN – MOUNT ON POST IN LOCATION SHOWN ON SHEET C7.11

RED LETTERING

FLOOD HAZARD WARNING SIGN DETAIL
NOT TO SCALE

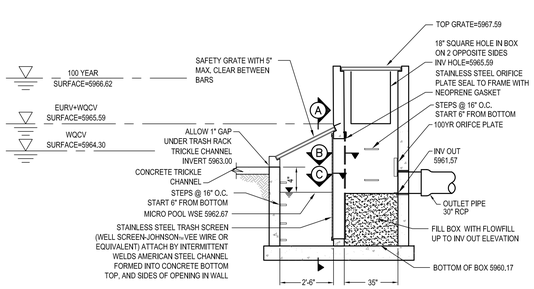
SIGNAGE NOTES:

1. OUTLET MODIFICATION SIGN SHALL BE ATTACHED TO OR POSTED NEARBY ALL EDB OUTLETS.
2. TWO (2) FLOOD HAZARD WARNING SIGNS SHALL BE PROVIDED AROUND THE PERIMETER OF THE POND.

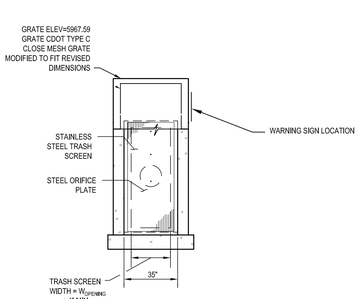


3' WIDE CONCRETE CURB CHASE DETAIL
NOT TO SCALE

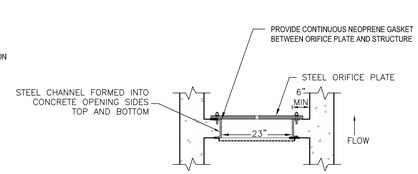
REINFORCE BOX SAME AS CDOT TYPE C INLET



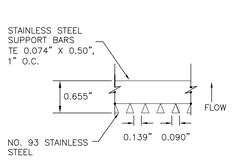
PROFILE
NTS



SECTION Ⓐ
NTS



SECTION Ⓑ
NTS



R VALUE = (NET OPEN AREA)/(GROSS RACK AREA) = 0.60

SECTION Ⓒ
NTS

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TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION DATE

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
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303-235-5255

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

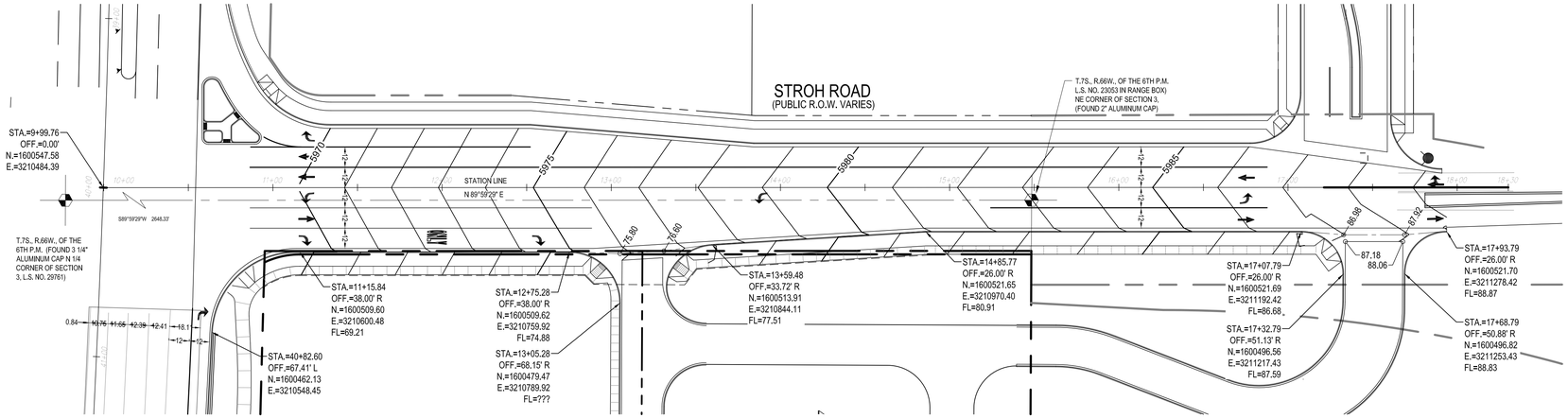
REVISIONS		
△	DATE	DESCRIPTION
1	10/24/17	INITIAL SUBMITTAL

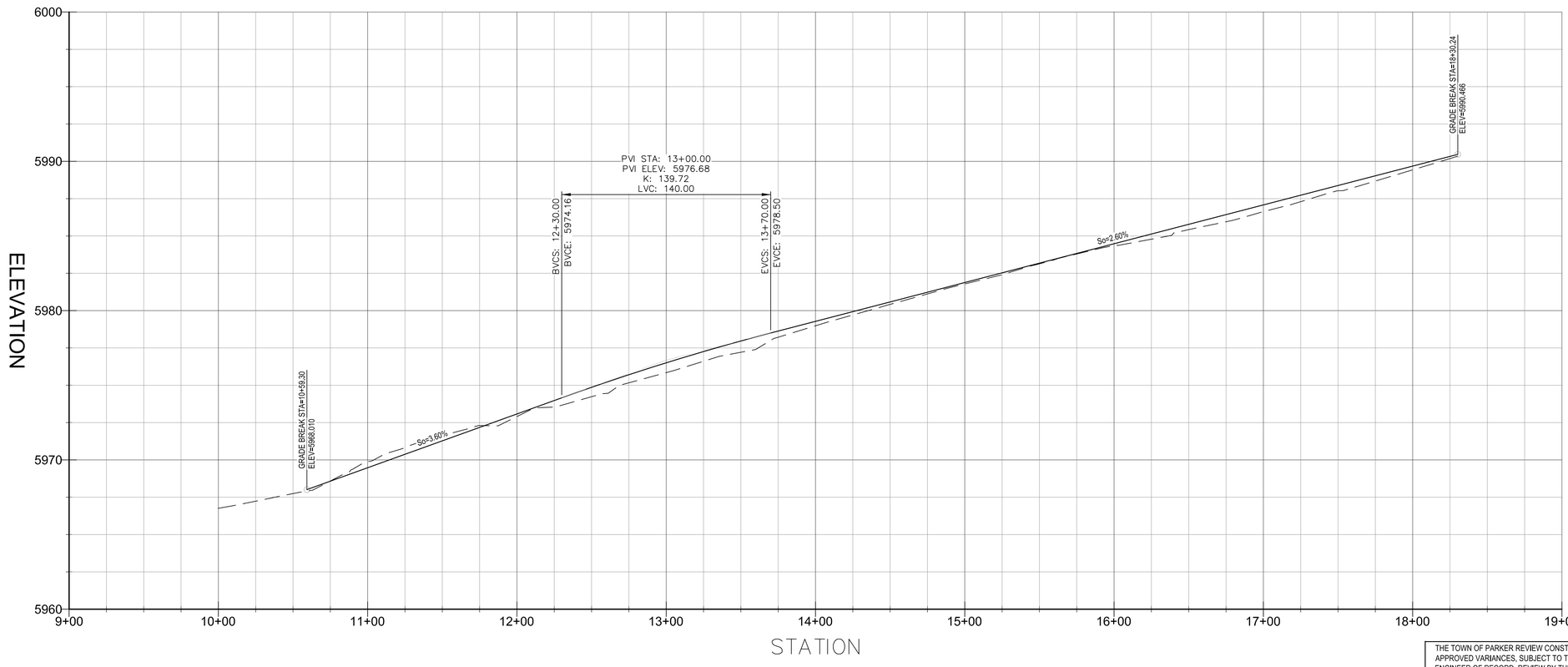
STORM SEWER PLAN DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

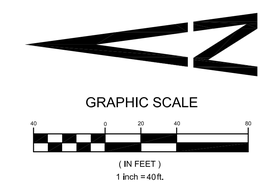
design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C4.93





PROFILE - STROH ROAD STATION LINE



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

THE TYPE, SIZE, LOCATION, AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ON THE SITE, AND OFFSITE IN WORK AREAS. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO DATE OF CONSTRUCTION. FOR INFORMATION CONTACT: UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) – 1- 800-922-1987. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.

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Perception
Design Group, Inc.
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6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
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FOR AND ON BEHALF OF
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DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

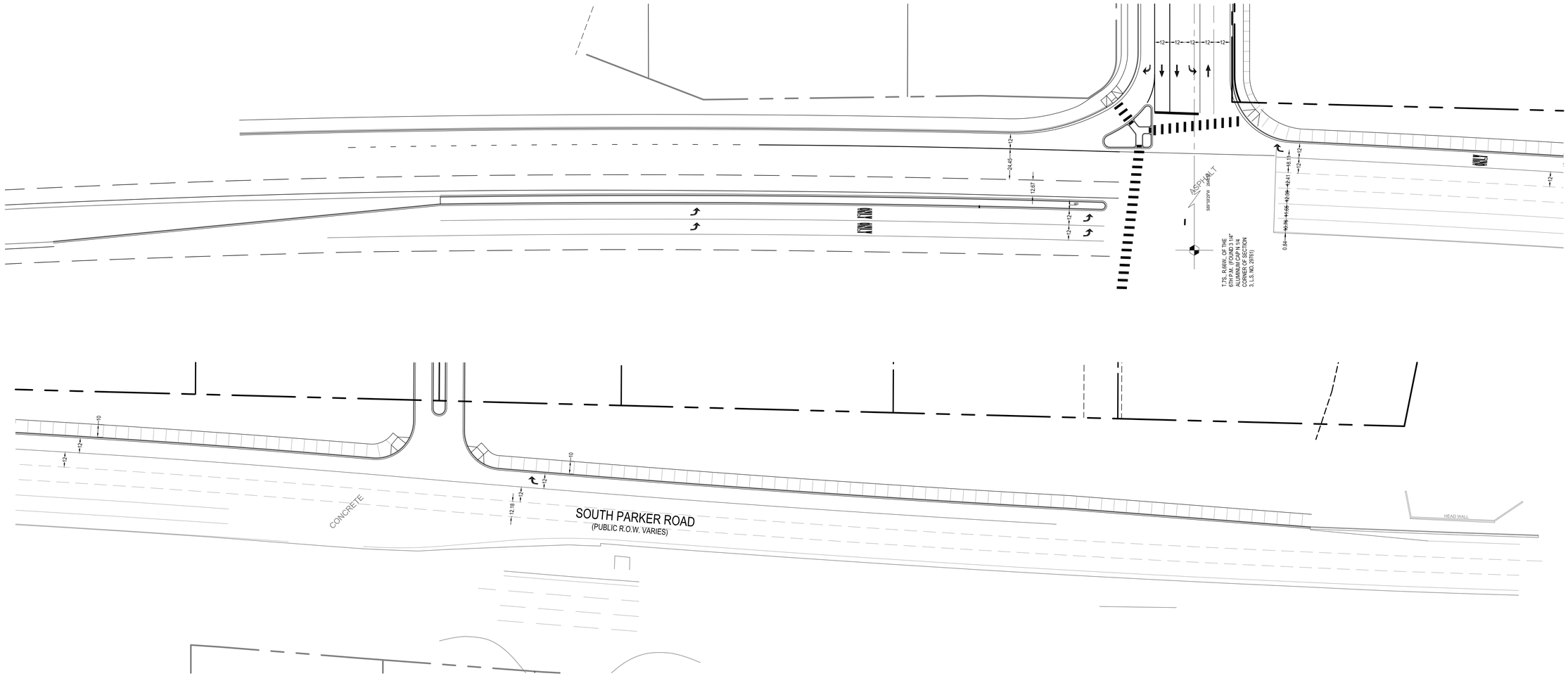
REVISIONS

STROH ROAD PLAN AND PROFILE

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C5.10



GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

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1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

THE TYPE, SIZE, LOCATION, AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ON THE SITE, AND OFFSITE IN WORK AREAS. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO DATE OF CONSTRUCTION. FOR INFORMATION CONTACT: UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) – 1- 800-922-1987. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

△	DATE	DESCRIPTION
1	10/24/17	INITIAL SUBMITTAL

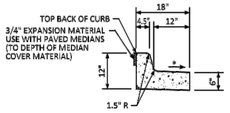
REVISIONS

PARKER ROAD PLAN AND PROFILE

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

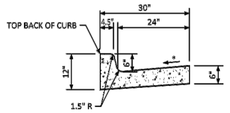
design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C5.11

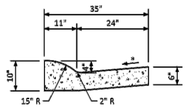


MEDIAN CURB AND GUTTER SECTION
(CDOT CURB AND GUTTER TYPE 2 (SECTION I-B))

* GUTTER CROSS SLOPE SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB. DIRECTION OF SLOPE SHALL MATCH STREET CROSS SLOPE.



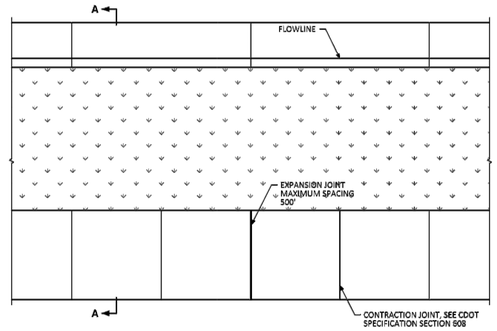
VERTICAL CURB AND GUTTER SECTION
(CDOT CURB AND GUTTER TYPE 2 (SECTION II-B))



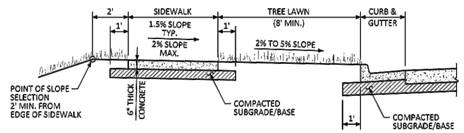
MOUNTABLE CURB AND GUTTER SECTION

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Town of Parker COLORADO | **CURB, GUTTER, AND SIDEWALK SECTIONS STANDARD DETAIL** | DATE AUGUST 2014 | DETAIL 3 | 1 OF 1



JOINT SPACING



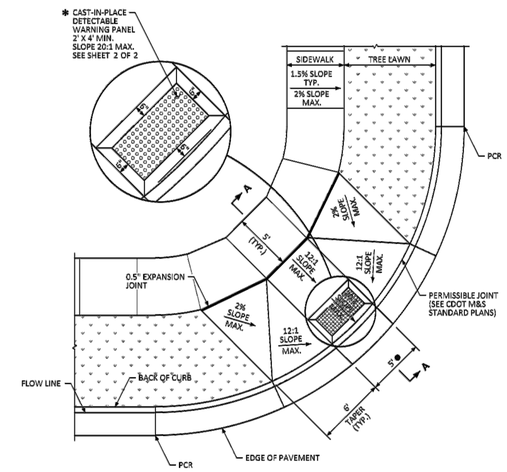
SECTION A-A

GENERAL NOTES

1. CONTRACTION JOINTS ON CONCRETE TRAILS SHALL BE SAWCUT.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Town of Parker COLORADO | **DETACHED SIDEWALK STANDARD DETAIL** | DATE AUGUST 2014 | DETAIL 4 | 1 OF 2

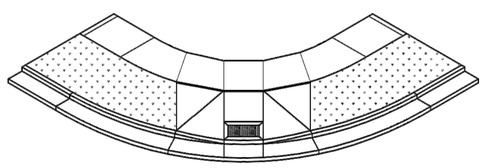


✱ DETECTABLE WARNINGS SHALL BE ONE OF THE PRODUCTS APPROVED FOR USE AS LISTED ON CDOT'S APPROVED LIST.

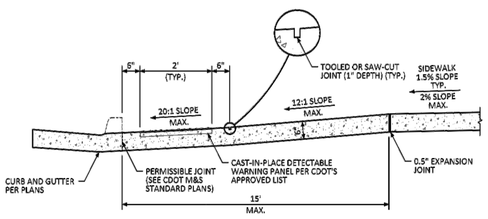
● FOR RESIDENTIAL COLLECTOR/COLLECTOR LAYOUT OR COLLECTOR/ARTERIAL LAYOUT, CURB RAMP SHALL BE 7' WIDE.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Town of Parker COLORADO | **DIAGONAL CURB RAMP (DETACHED SIDEWALK) LAYOUT STANDARD DETAIL** | DATE AUGUST 2014 | DETAIL 15 | 1 OF 2



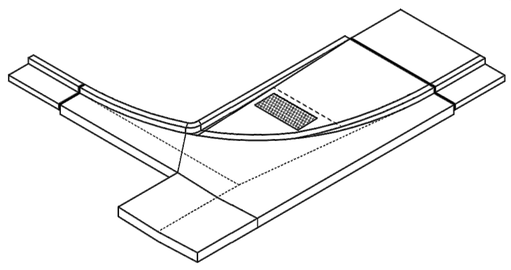
ISOMETRIC



SECTION A-A

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Town of Parker COLORADO | **DIAGONAL CURB RAMP LAYOUT STANDARD DETAIL** | DATE AUGUST 2014 | DETAIL 15 | 2 OF 2



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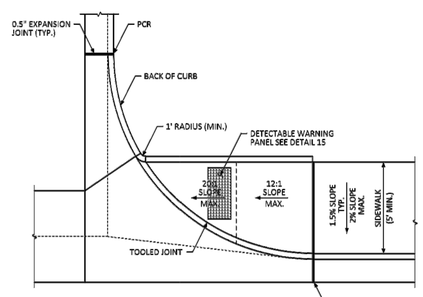
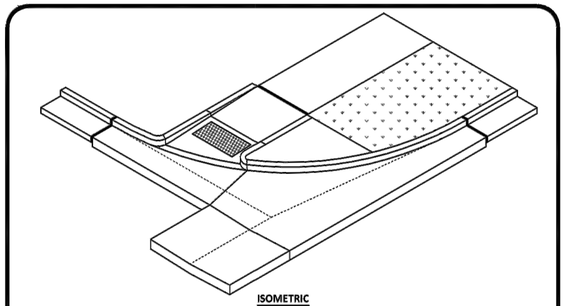


DIRECTIONAL CURB RAMP WITHIN RADIUS
(ATTACHED SIDEWALK)

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Town of Parker COLORADO | **DIRECTIONAL CURB RAMP WITHIN RADIUS LAYOUT STANDARD DETAIL** | DATE AUGUST 2014 | DETAIL 18 | 1 OF 2



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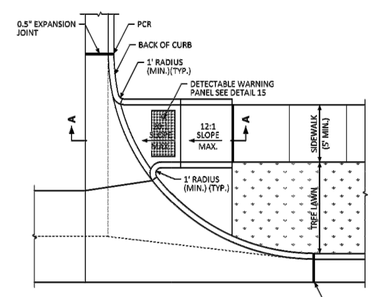

DIRECTIONAL CURB RAMP WITHIN RADIUS
(DETACHED SIDEWALK)

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Town of Parker COLORADO | **DIRECTIONAL CURB RAMP WITHIN RADIUS LAYOUT STANDARD DETAIL** | DATE AUGUST 2014 | DETAIL 18 | 2 OF 2

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVAL OF PLANS IS SUBJECT TO THESE PLANS BEING SIGNED AND SEALED 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 MAY NOT COMMENCE UNTIL ALL REQUIRED STORMWATER PERMITS, FINAL SITE 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, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

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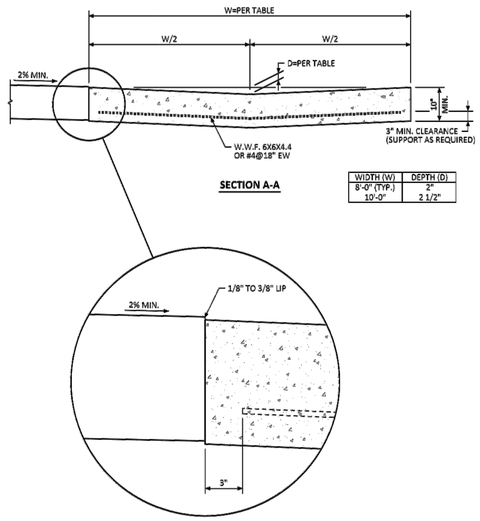
ROADWAY DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C5.90



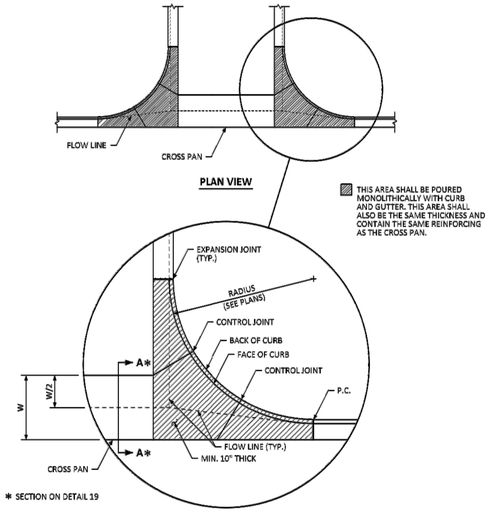
WIDTH (W)	DEPTH (D)
8'-0" (TYP.)	2"
10'-0"	2 1/2"

GENERAL NOTES

1. CONTRACTION JOINTS SHALL BE PROVIDED AT 10' MAXIMUM SPACING.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Town of Parker COLORADO | **CROSS PAN LAYOUT STANDARD DETAIL** | DATE AUGUST 2014 | DETAIL **19** 1 OF 1

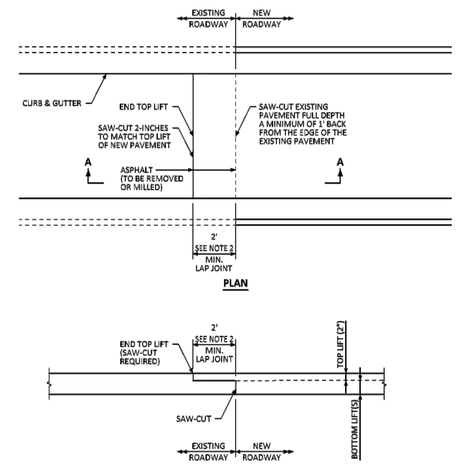


GENERAL NOTES

1. EXPANSION JOINTS SHALL BE SEALED IN ACCORDANCE WITH THE LATEST CDOT M&S STANDARD PLANS.
2. REINFORCING SHALL BE CONTINUOUS FROM CROSS PAN TO APRONS AND PLACED AS SHOWN IN STANDARD DETAIL 19.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Town of Parker COLORADO | **INTERSECTION CROSS PAN LAYOUT STANDARD DETAIL** | DATE AUGUST 2014 | DETAIL **20** 1 OF 1



GENERAL NOTES

1. SAW-CUT EXISTING PAVEMENT FULL DEPTH TO PROVIDE A VERTICAL EDGE PRIOR TO PLACEMENT OF NEW ASPHALT AND SAW-CUT THE LAP JOINT 2-INCHES DEEP AT THE LAP JOINT DISTANCE.
2. THIS DETAIL APPLIES TO BOTH TRANSVERSE (WITH A 2-FOOT MIN. LAP JOINT) AND LONGITUDINAL (WITH A 1-FOOT MIN. LAP JOINT) ASPHALT JOINTS BETWEEN EXISTING AND NEW PAVEMENT.
3. SPECIFICATIONS AND ILLUSTRATIONS FOR CONCRETE PAVEMENT JOINTS ARE LOCATED IN CDOT'S M&S STANDARD PLANS AND CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
4. TEMPORARY ASPHALT RAMPS PLACED AT A 20:1 MAX. SLOPE SHALL BE REMOVED OR MILLED PRIOR TO PLACING FINAL ASPHALT.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Town of Parker COLORADO | **ASPHALT CONNECTION BETWEEN EXISTING AND NEW PAVEMENT STANDARD DETAIL** | DATE AUGUST 2014 | DETAIL **27** 1 OF 1

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.

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

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DATE	DESCRIPTION
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REVISIONS

ROADWAY DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C5.91

STANDARD DUTY

OPTION 'A'
- X" ASPHALT GRADING S (PER CDOT MANUAL)
- COMPACTED SUBGRADE

OPTION 'B'
- X" ASPHALT GRADING S (PER CDOT MANUAL)
- X" AGGREGATE BASE COURSE CLASS 6 (PER CDOT MANUAL)
- COMPACTED SUBGRADE

HEAVY DUTY

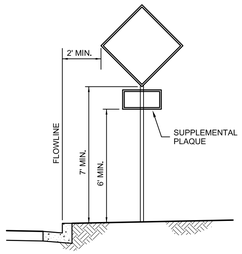
OPTION 'A'
- X" ASPHALT GRADING S (PER CDOT MANUAL)
- COMPACTED SUBGRADE

OPTION 'C'
- X" CONCRETE CLASS P (PER CDOT MANUAL)
- COMPACTED SUBGRADE

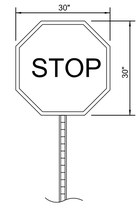
REFER TO GEOTECHNICAL REPORT FOR PAVEMENT DESIGN

"CDOT MANUAL" REFERS TO CDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"

PAVEMENT SECTIONS (A)
NOT TO SCALE

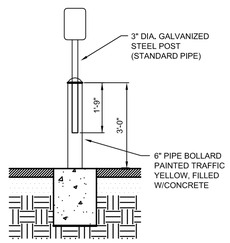


SIGN PLACEMENT DETAIL



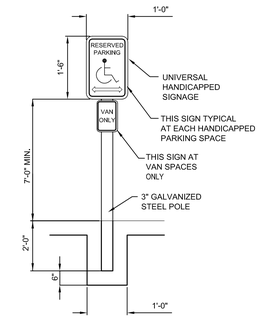
R1-1 STOP SIGN

1. SIGNS SHALL BE ON EXTRUDED ALUMINUM BLANKS.
2. SIGN POSTS IN LANDSCAPE AREAS SHALL BE 12 GAUGE Nex/S-SQUARE TUBE STEEL. FINISH TO BE HOT DIPPED GALVANIZED (ASTM A-653 G90). SIZE OF POST TO BE NOMINAL 2" x 2".
3. SIGN MOUNTING HARDWARE TO BE ZINC OR CADMIUM PLATED.
4. SIGN SHEETING SHALL BE HIGH INTENSITY PRISMATIC
5. MOUNTING HEIGHTS AND LOCATIONS TO BE PER MUTCD GUIDELINES OR AS DIRECTED BY THE TOWN



BASE DETAIL IN PAVED AREAS

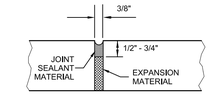
PROVIDE TRAFFIC CONTROL SIGNS COMPLYING WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S MANUAL "UNIFORM TRAFFIC CONTROL DEVICES", AND LOCAL CODES.



HANDICAP SIGN

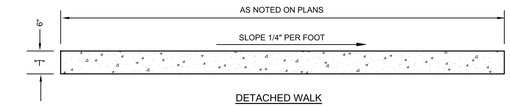
SITE SIGNAGE DETAILS (D)
NOT TO SCALE

T = 6" WITH MOUNTABLE CURB AND GUTTER OR WHERE VEHICLE TRAFFIC WILL CROSS THE SIDEWALK. IN AREAS WHERE VEHICLE TRAFFIC WILL NOT CROSS THE SIDEWALK, "T" MAY BE 4".

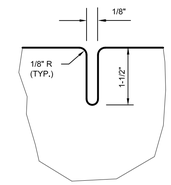


NOTE: JOINT SEALANT MATERIAL MUST MEET ASTM 3406.

EXPANSION JOINT

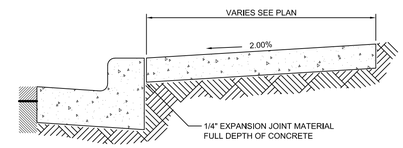


DETACHED WALK



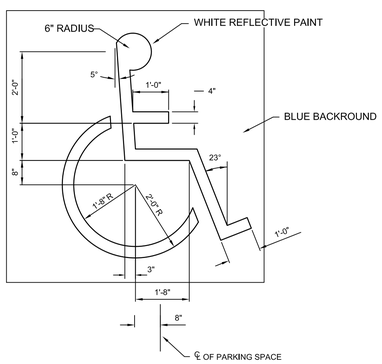
CONTRACTION OR WEAKENED PLANE JOINT

NOTES:
1. CONTRACTION JOINTS SHALL BE PLACED AT A MAXIMUM INTERVAL OF 10 FEET.
2. EXPANSION JOINTS SHALL BE PLACED AT EXISTING JOINTS, STRUCTURES, PCR'S AND EVERY 100 FEET.

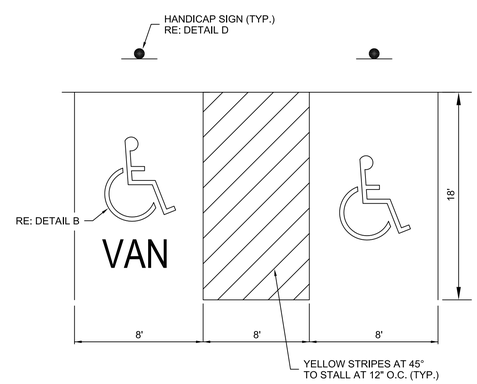


ATTACHED WALK

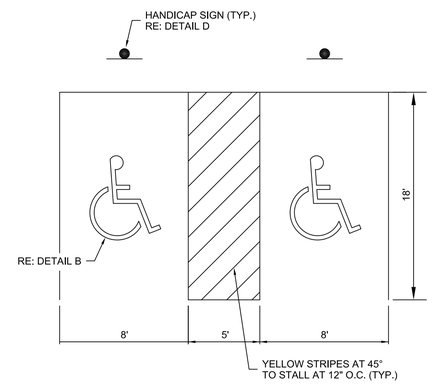
CONCRETE SIDEWALK DETAILS (H)
NOT TO SCALE



HANDICAP SYMBOL DETAIL (B)
NOT TO SCALE

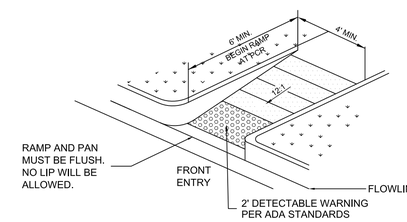


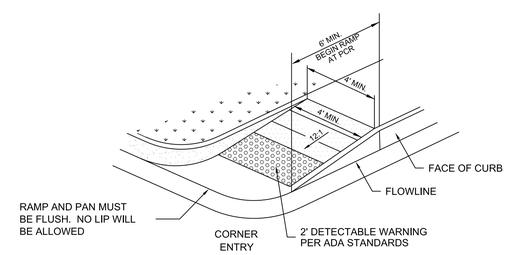
WESTERN HANDICAP STALLS



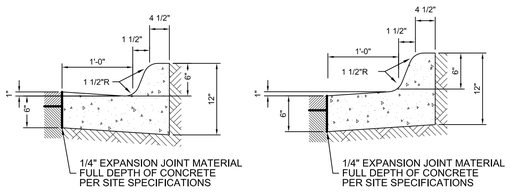
EASTERN HANDICAP STALLS

HANDICAP STRIPING DETAILS (E)
NOT TO SCALE





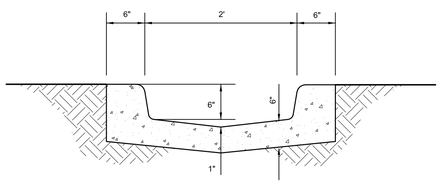
HANDICAP RAMP DETAILS (I)
NOT TO SCALE



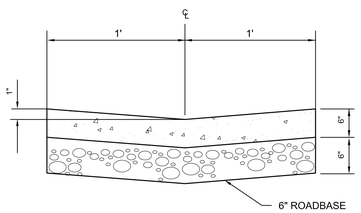
CONCRETE CURB AND GUTTER WITH CATCH PAN

CONCRETE CURB AND GUTTER WITH SPILL PAN

PRIVATE CURB AND GUTTER DETAILS (C)
NOT TO SCALE



2' WIDE CONCRETE CURB CHASE DETAIL (F)
NOT TO SCALE



2' CONCRETE TRICKLE PAN DETAIL (G)
NOT TO SCALE

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, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION — DATE

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC.

	DATE	DESCRIPTION
1	10/24/17	INITIAL SUBMITTAL

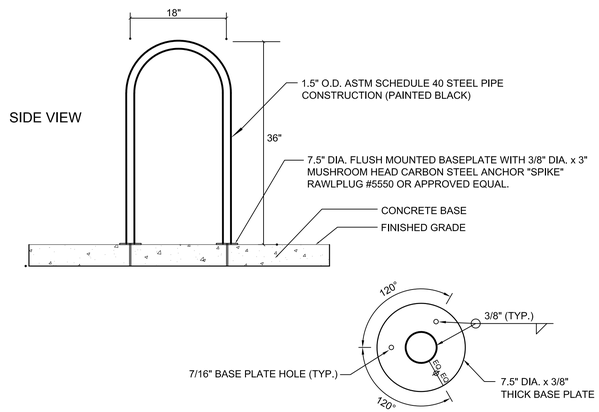
REVISIONS

SIGNAGE AND STRIPING DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C6.90



INVERTED U BIKE RACK DETAIL (A)

NOT TO SCALE

SOUTH METRO FIRE RESCUE AUTHORITY

LIFE SAFETY BUREAU
9195 E Mineral Ave, Centennial, CO 80112
PHONE: 720.989.2230 www.southmetro.org FAX: 720.989.2030

FIRE LANE SIGN PLACEMENT

Posting of Fire Lanes: The posting of the "Fire Lanes" is required.

Fire Lane Sign Dimensions. NO PARKING – FIRE LANE signs shall be 12 inches wide and 18 inches high.

Fire Lane Sign Characteristics: Signs shall be engineer grade reflective sheeting on 0.80 aluminum with red lettering on a white background.

Fire Lane Sign Locations. Fire apparatus access roadways between 20 and 28 feet wide, signs shall be posted on *both sides*. Fire apparatus access roadways between 28 feet wide and 34 feet wide, signs may be posted on *one side only*.

Fire Lane Sign Installation. NO PARKING – FIRE LANE signs shall be installed as follows:

1. Bottom edge of the signs shall be 7 feet above surface (sidewalk) and post shall be placed 24 inches from flow line (curb).
2. One sign at the beginning of the restriction (one arrow pointing towards the restriction zone).
3. One sign at the end of the restriction (one arrow pointing back into restricted zone).
4. One sign at least every 150 ft. within the restricted area (double arrow pointing in each direction, to indicate the continuing restriction).
5. Spaced evenly within the restriction (for straight curbs/zones). For example, if the parking restriction zone is 300 ft long, only one double arrow sign is required at a distance of 150 ft. from the beginning of the restriction. If the restriction zone is 400 ft. long, two double arrow signs are required; spaced 100 ft. evenly from each other and from the beginning/ending signs.
6. Spaced so that at least one readable sign is visible in front of a parked vehicle from any point along the restriction (for curved curbs/zones and areas that may present visual obstacles.)
7. Set at an angle of no fewer than 30 degrees and no more than 45 degrees with the lane of traffic flow visible to approaching traffic.
8. Signs shall be provided at all normal and emergency access points to structures and within 20 feet of each fire hydrant and fire department connection (FDC) in compliance with UFC 901.4.2.
9. Some areas may need additional fire lane signs. Check with the Division of Life Safety for any additional requirements.

Fire Lane Sign Types. The diagrams below indicate the types of signs that may be used, and the recommended placement.

Additional sign styles may be used – provided the same type is used consistently.

Painting of Curbs or Streets. In addition to the required signage, South Metro Fire Rescue does permit fire lanes to be painted with curb or street markings. However, these markings shall not replace the required fire lane signs. Curbs may be painted red with 3 inch white block letters stating NO PARKING – FIRE LANE. Lettering shall be spaced every 15 feet.

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - TRANSPORTATION DATE

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

REVISIONS		
△	DATE	DESCRIPTION
	10/24/17	INITIAL SUBMITTAL

SIGNAGE AND STRIPING DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C6.91

WATER AND SANITARY SEWER CONSTRUCTION PLANS
PARKER POINTE

LOT 4, CROWN POINT FILING NO. 1, 5TH AMENDMENT
A PART SECTION 3, TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

GENERAL NOTES:

1. TOPOGRAPHIC MAPPING AS OF 03/05/14 PREPARED BY ENGINEERING SERVICE COMPANY, INC. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN HE SHALL, AT HIS EXPENSE, HAVE NEW MAPPING PREPARED BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR ACCEPTANCE AND APPROVAL.
2. CONTRACTOR SHALL REFER TO THE GRADING, EROSION AND SEDIMENT CONTROL (GESC) PLAN FOR ADDITIONAL REQUIREMENTS. NO WORK SHALL OCCUR UNTIL THE BMPs DEPICTED ON THE GESC HAVE BEEN INSTALLED AND ARE APPROVED BY THE CITY. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
3. EXISTING CONTOURS ARE SHOWN AT 1-FOOT INTERVALS; PROPOSED OVERLOT CONTOURS ARE SHOWN AT 1-FOOT INTERVALS.
4. ALL EARTHWORK, GRADING, OVERLOT GRADING, BACKFILLING, FILLING, EXCAVATION, COMPACTION, PAVEMENT, AND FLATWORK SHALL BE IN CONFORMANCE WITH THE GEOTECHNICAL REPORT PREPARED BY XXXXXXXX INC. TITLED XXXXX, DATED XXXX. THE CONTRACTOR IS REQUIRED TO HAVE A SIGNED AND SEALED COPY OF THE REPORT AT THE SITE AT ALL TIMES. DURING CONSTRUCTION, IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED, THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED BY THE CONTRACTOR FOR RECOMMENDATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR:
   a. VERIFYING ALL UTILITIES, WHETHER SHOWN OR NOT SHOWN, AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION. ALL UTILITIES TO REMAIN (MANHOLES, VALVE COVERS, CLEANOUTS, VAULTS, BOXES, ETC.) SHALL BE PROTECTED FROM DAMAGE AND ADJUSTED TO FINAL GRADE.
   b. PREPARING ANY TRAFFIC CONTROL PLANS, AS MAY BE REQUIRED TO PERFORM THE WORK, AND PROVIDING ALL NECESSARY TRAFFIC CONTROL (SIGNS, BARRICADES,FLAGMEN, LIGHTS, ETC) IN ACCORDANCE WITH THE MUTCD, CURRENT EDITION, AS REQUIRED FOR THE WORK. THE PLAN FOR TRAFFIC CONTROL SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO COMMENCING ANY WORK IN THE RIGHTS-OF-WAY.
   c. OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED TO PERFORM THE WORK AND TO OBTAIN A COPY OF ALL APPLICABLE CODES, LICENSES, SPECIFICATIONS, AND STANDARDS NECESSARY TO PERFORM THE WORK, AND BE FAMILIAR WITH THEIR CONTENTS PRIOR TO COMMENCING ANY WORK.
   d. KEEPING ONE COPY OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES. PRIOR TO THE START OF CONSTRUCTION ,CONTRACTOR TO VERIFY WITH PROJECT ENGINEER THE LATEST REVISION DATE OF THE APPROVED CONSTRUCTION PLANS.
   e. COORDINATING PRIOR TO CONSTRUCTION WITH THE GEOTECHNICAL ENGINEER, THE CITY, AND UTILITY AND STORMWATER DISTRICT INSPECTORS TO IDENTIFY PROJECT INSPECTION AND TESTING REQUIREMENTS.
   f. KEEPING TRACK OF ALL APPROVED DEVIATIONS FROM THE PLANS AND PROVIDING THE PROJECT ENGINEER WITH AS-BUILT DRAWINGS OF ALL IMPROVEMENTS REQUIRED FOR THE WORK.
   g. COMPLYING WITH CITY GENERAL REQUIREMENTS, STANDARDS, AND SPECIFICATIONS.
   h. PROVIDING AS-BUILT DRAWINGS OF CONSTRUCTED UTILITIES UPON COMPLETION OF THE WORK.

TOWN OF PARKER
PUBLIC WORKS
20120 E. MAINSTREET
PARKER, CO 80138
(303) 841-2332

GAS PROVIDER
XCEL ENERGY
550 15TH STREET, SUITE 700
DENVER, CO 80202
1-800-628-2121

WATER/SEWER PROVIDER
PARKER WATER AND SANITATION DISTRICT
18100 WOODMAN DR, PARKER, CO 80134
PARKER, CO 80134
(303) 841-4627
DRAYTON SANDERSON

ELECTRIC PROVIDER
INTERMOUNTAIN RURAL ELECTRIC ASSOCIATION
5496 NORTH U.S. HIGHWAY 85
SEDALIA, CO 80135
(303) 688-3100

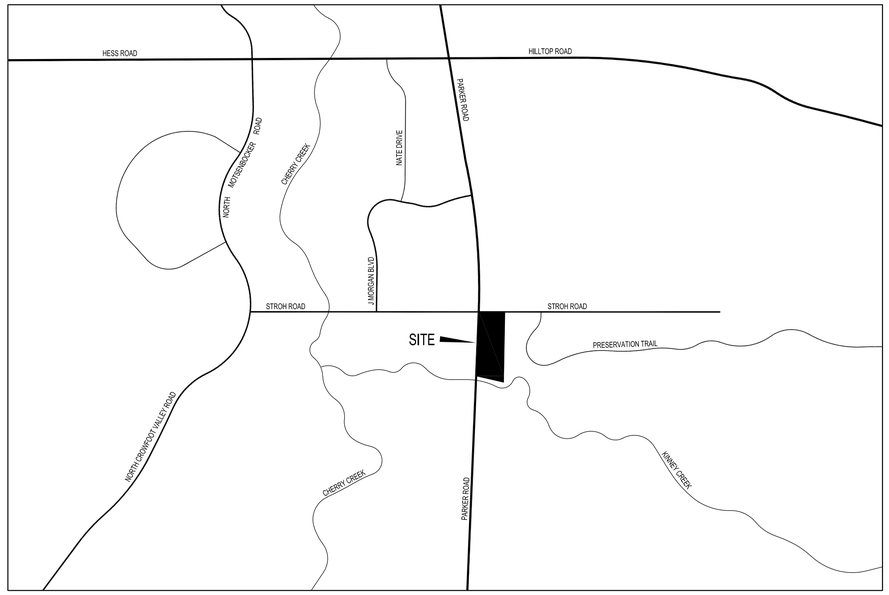
FIRE PROTECTION
SOUTH METRO FIRE AND RESCUE
9195 EAST MINERAL AVENUE
CENTENNIAL, CO 80112
(720) 989-2244
CONTACT: RANDY CAPRA

CIVIL ENGINEER
PERCEPTION DESIGN GROUP, INC.
6901 S. PIERCE ST., SUITE #315
LITTLETON, CO 80128
(303) 232-8088
CONTACT: JERRY DAVIDSON

DEVELOPER
PARKER & STROH, LLC
975 LINCOLN STREET, SUITE 204
DENVER, CO 80203
(303) 699-3368
CONTACT: DAN YACOVETTA

ARCHITECT
IRELAND DEAN
425 WILCOX ST, STE 120
CASTLE ROCK, CO 80104
(720) 878-6534
CONTACT: SHANNIN ALBERS

SURVEYOR
ENGINEERING SERVICE COMPANY
1300 SOUTH POTOMAC STREET, SUITE 126
AURORA, CO 80012
(303) 337-1393
CONTACT: CHIP BECKSTROM



VICINITY MAP
SCALE: 1" = 500'

LEGEND

- PROPERTY LINE
- LOT LINE
- PROPOSED EASEMENT / SETBACK
- EXISTING RIGHT-OF-WAY
- PROPOSED SAWCUT LINE
- PROPOSED CURB
- PROPOSED FLOW LINE
- PROPOSED PAN/LIP
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED WATERLINE
- EXISTING WATERLINE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED WATERLINE BEND *
- PROPOSED WATERLINE TEE / CROSS *
- PROPOSED WATERLINE PLUG & CAP *
- PROPOSED GATE VALVE *
- PROPOSED WATER METER *
- PROPOSED FIRE HYDRANT *
- EXISTING / PROPOSED SANITARY MANHOLE *
- EXISTING / PROPOSED CLEAN OUT *
- UNDERGROUND UTILITY CROSSING

LEGAL DESCRIPTION

A TRACT OF LAND LOCATED IN SECTION 3, TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE 6TH P.M., DOUGLAS COUNTY, COLORADO, DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHEAST CORNER OF SAID SECTION 3; THENCE RUNNING WEST, 486 FEET; THENCE SOUTH 2°20' WEST, 1330 FEET; THENCE SOUTH 78°30' EAST, 535 FEET; THENCE NORTH, 1444 FEET TO THE POINT OF BEGINNING,
EXCEPT THAT PORTION THEREOF LYING WITHIN EAST STROH ROAD AND
EXCEPT THAT PORTION THEREOF TAKEN BY THE DEPARTMENT OF TRANSPORTATION, STATE OF COLORADO BY RULE AND ORDER, CASE NO. 90CV484 RECORDED MAY 11, 1993 IN BOOK 1124 AT

COUNTY OF DOUGLAS,

BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US

ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NE 1/4 OF SECTION 3, TOWNSHIP 7 SOUTH, RANGE 66 WEST, OF THE 6TH PRINCIPAL MERIDIAN BEARING S89°59'29"W AND BOUNDED BY THE MONUMENTS SHOWN HEREON.

PARKER WATER AND SANITATION PLAN SET

C6.00	WATER AND SEWER COVER SHEET
C6.01	WATER AND SEWER GENERAL NOTES
C6.10	OVERALL UTILITY PLAN
C6.11	WATER PLAN AND PROFILE
C6.12	WATER PLAN AND PROFILE
C6.13	WATER PLAN AND PROFILE
C6.14	SANITARY SEWER PLAN AND PROFILE
C6.90-C6.94	WATER AND SEWER DETAILS
IR-01	OVERALL IRRIGATION PLAN
IR-02	IRRIGATION PLAN
IR-03	IRRIGATION PLAN
IR-04	IRRIGATION DETAILS
IR-05	IRRIGATION DETAILS
IR-06	IRRIGATION DETAILS
LP-01	LANDSCAPE NOTES AND CALCULATIONS
LP-02	OVERALL LANDSCAPE PLAN
LP-03	LANDSCAPE PLAN
LP-04	LANDSCAPE PLAN
LP-05	LANDSCAPE NOTES
LP-06	LANDSCAPE CONSTRUCTION DETAILS

ENGINEER

HEREBY AFFIRM THAT THESE CONSTRUCTION PLANS FOR PARKER POINTE CONSTRUCTION PLANS WERE PREPARED BY ME (OR UNDER MY DIRECT SUPERVISION) IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AGENCY STANDARDS AND SPECIFICATIONS. FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP.

_____
CLIFFORD D. NETUSCHIL, P.E.
PROFESSIONAL ENGINEER REGISTRATION NO. 38138
PERCEPTION DESIGN GROUP, INC.

SOUTH METRO FIRE RESCUE

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO DISTRICT STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE SOUTH METRO FIRE PROTECTION DISTRICT

_____
(SIGNATURE OF FIRE CHIEF OR DESIGNATED REPRESENTATIVE)

DATE SIGNED_____

PARKER WATER AND SANITATION DISTRICT

THE DISTRICT INSPECTOR MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CALL PARKER WATER AND SANITATION DISTRICT AT 303-841-4627. THE DISTRICT WILL PROVIDE PERIODIC INSPECTIONS OF THE WORK. 24 HOUR NOTICE TO THE INSPECTOR IS REQUIRED FOR SCHEDULING INSPECTIONS.
ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION. REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY:_____
(DISTRICT REPRESENTATIVE)

DATE:_____

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT
BY:_____
(DISTRICT ENGINEER)

DATE:_____

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

△	DATE	DESCRIPTION
1	10/24/17	INITIAL SUBMITTAL

REVISIONS

WATER AND SANITARY COVER

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C7.00

PARKER WATER AND SANITATION DISTRICT
GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.

2. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER, DOUGLAS COUNTY AND OTHER NEIGHBORING CITIES AND TOWNS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

3. ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATIONS MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER THE CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS CONTACT THE PWSD IMMEDIATELY.

4. PWSD ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.

5. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS NECESSARY TO PERFORM THE PROPOSED WORK.

6. ALL CONCRETE SHALL BE A MINIMUM OF CLASS A, 6 SACK, TYPE II, 3000-POUND COMPRESSION STRENGTH.

7. THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF "AS-BUILT" DRAWINGS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL BY DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZE PRINTS SHALL BE TRANSMITTED TO THE PWSD OFFICE.

8. NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. COMPACTION TESTS MUST BE SUBMITTED TO DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.

9. TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR THE INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.

10. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF LINES (WATER AND SEWER) FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF THE LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.

11. SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES. RESULTS MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
12. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
13. "X" FOR SANITARY SERVICE SEWERS
14. "V" FOR WATER SERVICES

15. NO TREES ALLOWED IN EASEMENTS OR WITHIN 8' OF WATER OR SANITARY SEWER MAINS IN RIGHT OF WAY.

16. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSD AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSD SPECIFICATION MANUAL.

PARKER WATER AND SANITATION DISTRICT
WATER SYSTEM NOTES

17. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST REVISION.

18. ALL WATER MAINS SHALL BE PER PWSD MATERIALS SPECIFICATIONS. ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL BE SUITABLE FOR CHLORINATED AND CHLORAMINATED WATER.

19. ALL BENDS, PLUGS, REDUCERS, AND FIRE HYDRANTS TO BE RODDED OR MEGA-LUGGED. ALL FITTINGS SHALL BE WRAPPED PER PWSD MATERIALS SPECIFICATIONS.

20. THERE SHALL BE A MINIMUM COVER OF 4.5 FEET OVER ALL WATER MAINS.

21. FIRE HYDRANTS SHALL CONFORM TO AWWA C-502 "DRY BARREL FIRE HYDRANTS" PIPE HYDRANT ASSEMBLIES PER PWSD SPECIFICATIONS.

22. ALL BENDS, TEES, FIRE HYDRANTS, BLOW-OFFS, AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST WITH CONCRETE THRUST BLOCKS.

23. PRECAUTIONS SHALL BE TAKEN TO PROTECT THE INTERIOR OF PIPES, FITTINGS, AND VALVES AGAINST CONTAMINATION. ALL OPENINGS IN THE PIPELINE SHALL BE CLOSED WITH WATERTIGHT PLUGS WHEN PIPE LAYING IS STOPPED AT THE CLOSE OF THE DAY'S WORK OR FOR OTHER REASONS, SUCH AS REST BREAKS OR MEAL PERIODS.

24. VALVES IN STREETS ARE TO BE LOCATED AT PROPERTY LINE EXTENSIONS EXCEPT FOR TAPPING TEES; WHERE AN ADDITIONAL VALVE SHALL BE PLACED ON THE TAPPING TEE. OTHER LOCATIONS SHOWN ON THE PLANS.

25. WHEN NECESSARY TO LOWER OR RAISE WATER LINES AT STORM DRAINS AND OTHER UTILITY CROSSING, A MINIMUM CLEARANCE OF 1.5 FEET SHALL BE MAINTAINED BETWEEN OUTSIDE OF PIPES.

26. THE CONTRACTOR SHALL NOTIFY THE PWSD AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. IF WORK IS SUSPENDED FOR ANY PERIOD OF TIME AFTER INITIAL START-UP, THE CONTRACTOR MUST NOTIFY THE DISTRICT ENGINEER 48 HOURS PRIOR TO RE-START.

27. PIPE BEDDING SHALL BE A CLEAN, WELL-GRADED SAND OR SQUEEGEE SAND IN ACCORDANCE WITH PWSD STANDARDS AND SPECIFICATIONS, LATEST REVISION.

28. THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO PROCEEDING WITH THE EXCAVATION. ALL WORK PERFORMED IN THE AREA OF THE PUBLIC UTILITIES SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF THESE AGENCIES.

29. COMPACTION OF ALL TRENCHES MUST BE ATTAINED IN ACCORDANCE WITH THE SOILS REPORTS AND COMPACTION TEST RESULTS SUBMITTED TO THE DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.

30. AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR, DESIGN ENGINEER, AND REPRESENTATIVE OF OTHER APPROVING AGENCIES.

31. CHLORINATION AND FLUSHING: ALL WATER MAINS SHALL BE INSTALLED AND CHLORINATED PER PWSD SPECIFICATIONS. CHLORINATION OF FINISHED PIPELINE COMPLETED BEFORE HYDROSTATIC TESTING.

32. HYDROSTATIC TESTING: ALL WATER MAINS SHALL BE TESTED PER THE REQUIREMENTS OF THE PWSD SPECIFICATIONS UP TO MINIMUM OF 150 PSI IN THE PRESENCE OF A PWSD INSPECTOR/ENGINEER.

PARKER WATER AND SANITATION DISTRICT
SANITARY SEWER SYSTEM NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.

2. ALL SEWER MAINS SHALL BE PVC, ASTM D-3034, SDR 35 OR APPROVED EQUAL. ALL SEWER MAIN SIZE IS 8" IN DIAMETER UNLESS OTHERWISE NOTED.

3. SEWER LINES SHALL BE INSTALLED 5.0 FEET SOUTH OR WEST OF STREET CENTERLINE, UNLESS OTHERWISE SHOWN ON PLANS. SEWER LINES SHALL BE 10.00 FEET FROM WATER LINES EXCEPT WHEN CROSSING EACH OTHER. SEWER LINES WHICH CROSS LESS THAN 1.50 FEET VERTICALLY FROM THE WATER MAIN SHALL BE ENCASED IN CONCRETE AS PER PWSD SPECIFICATIONS. USE RUBBER GASKETS FOR PVC ENCASEMENT.

4. SEWER RIM ELEVATIONS SHOWN ARE APPROPRIATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. RING AND COVER SHALL BE SET IN CENTERED CONCRETE RINGS WITH RAM-NECK FOR ADJUSTMENT TO MATCH FINAL PAVEMENT ELEVATIONS.

5. THE CONTRACTOR AND SURVEY CREW SHALL VERIFY ELEVATIONS OF EXISTING SEWER LINES AND MANHOLES TO BE TIED TO PRIOR TO CONSTRUCTION OR STAKING OF SANITARY SEWER.

6. NO UNDERDRAIN SYSTEM WILL BE ALLOWED TO BE PLACED IN MAINLINE OR SEWER SERVICE TRENCHES.

7. SEWER SERVICE TEES FOR EACH UNIT SHALL BE STAKED BY A SURVEY CREW AND FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS CONSTRUCTED" LOCATION OF TEES. SEWER WYES SHALL BE USED RATHER THAN TEES.

8. ALL MANHOLES SHALL BE 48-INCHES IN DIAMETER WITH 24-INCH RING AND COVER, ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED. ALL MANHOLES SHALL HAVE SHAPED INVERTS.

9. PIPE BEDDING SHALL BE CLASS "B" AND SHALL CONFORM TO ASTM C-33 OR D-448 GRADATION NO. 6 OR NO. 67.

10. AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR AND REPRESENTATIVES OF THE OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER TO SCHEDULE THIS MEETING.

11. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSD AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSD SPECIFICATION MANUAL.

12. ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE PWSD STANDARDS AND SPECIFICATIONS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.

13. PRIOR TO STARTING WORK WHERE SEWER MAIN IS TO BE CONNECTED TO EXISTING PWSD SEWER SYSTEMS, THE NEAREST MANHOLE TO THE POINT OF TIE-IN SHALL BE PLUGGED WITH A PLUMBER'S PLUG ON THE INLET SIDE BY THE CONTRACTOR. THIS PLUG SHALL REMAIN IN PLACE UNTIL FINAL PROBATIONARY ACCEPTANCE BY PWSD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN INSTRUCTED BY THE DISTRICT.

14. PRIOR TO PROBATIONARY ACCEPTANCE WALK-THROUGH, THE CONTRACTOR SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE.

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

	DATE	DESCRIPTION
1	10/24/17	INITIAL SUBMITTAL

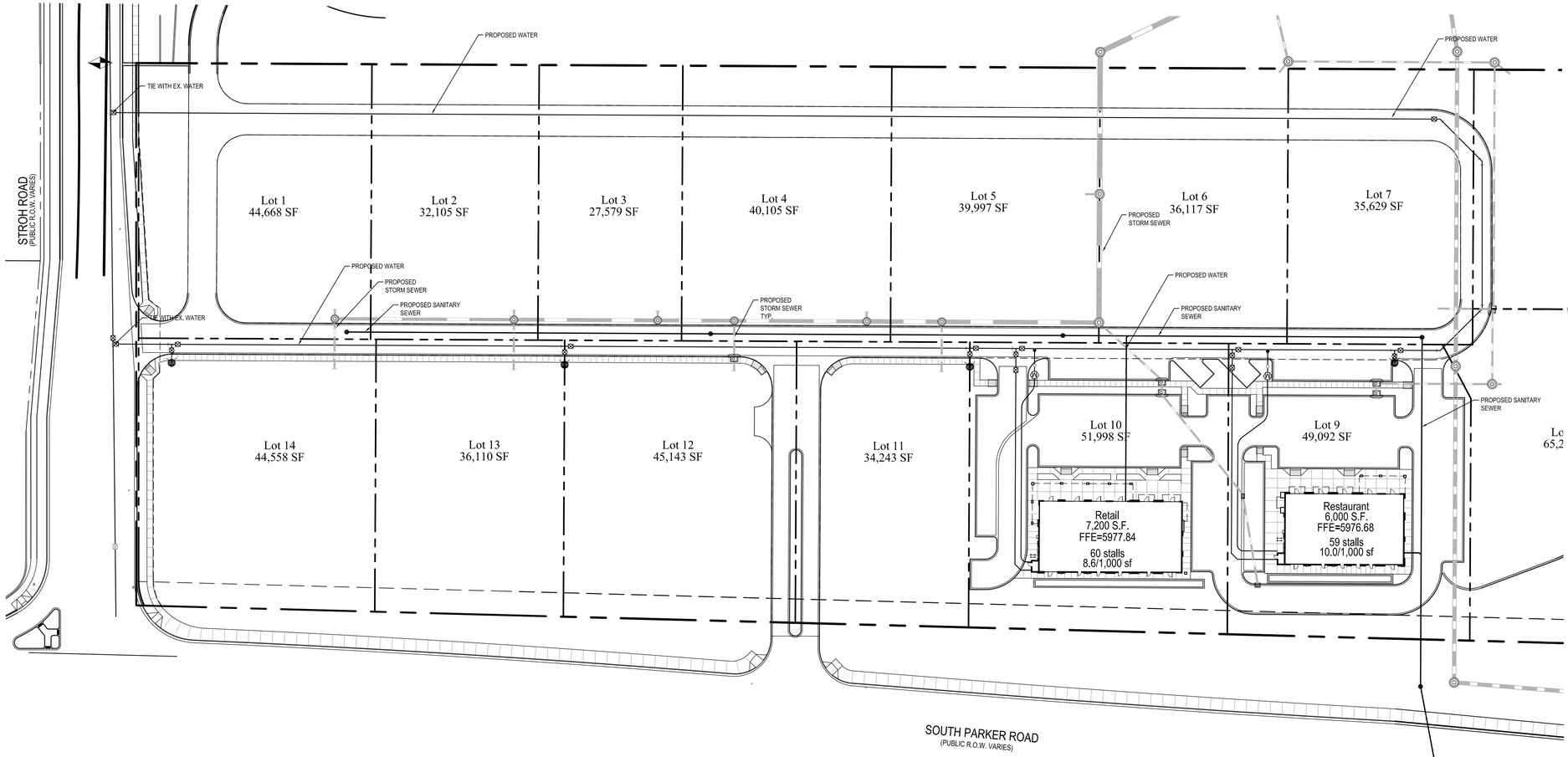
REVISIONS

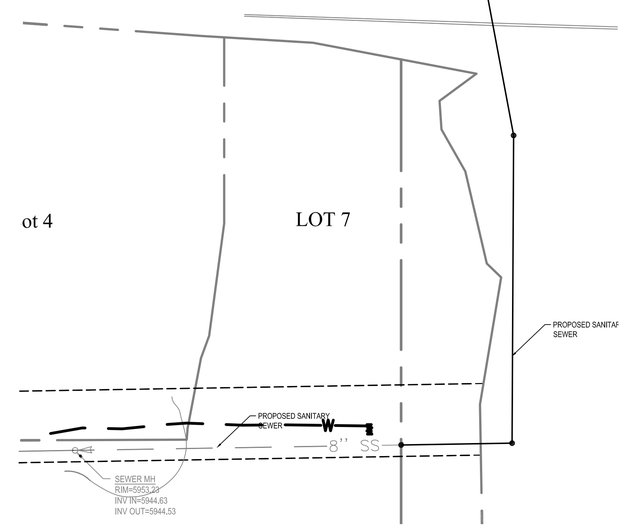
WATER AND SANITARY NOTES

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C7.01





LEGEND

- PROPERTY LINE
- LOT LINE
- PROPOSED EASEMENT / SETBACK
- EXISTING RIGHT-OF-WAY
- PROPOSED SAWCUT LINE
- PROPOSED CURB
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- EXISTING / PROPOSED SANITARY MANHOLE *
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ABBREVIATIONS

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ESMT	EASEMENTPS
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KB	KICK BLOCK / THRUST BLOCK
PR	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
TP	TOP OF PIPE
W/	WITH

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8. SITE SURVEY IS PROVIDED BY AZTEC CONSULTING INC. DATED 1-3-2017

GRAPHIC SCALE

-50 0 25 50 100

(IN FEET)
1 Inch = 50 ft.

BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83) ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

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303-238-5255

PREPARED UNDER THE DIRECT SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC.

REVISIONS

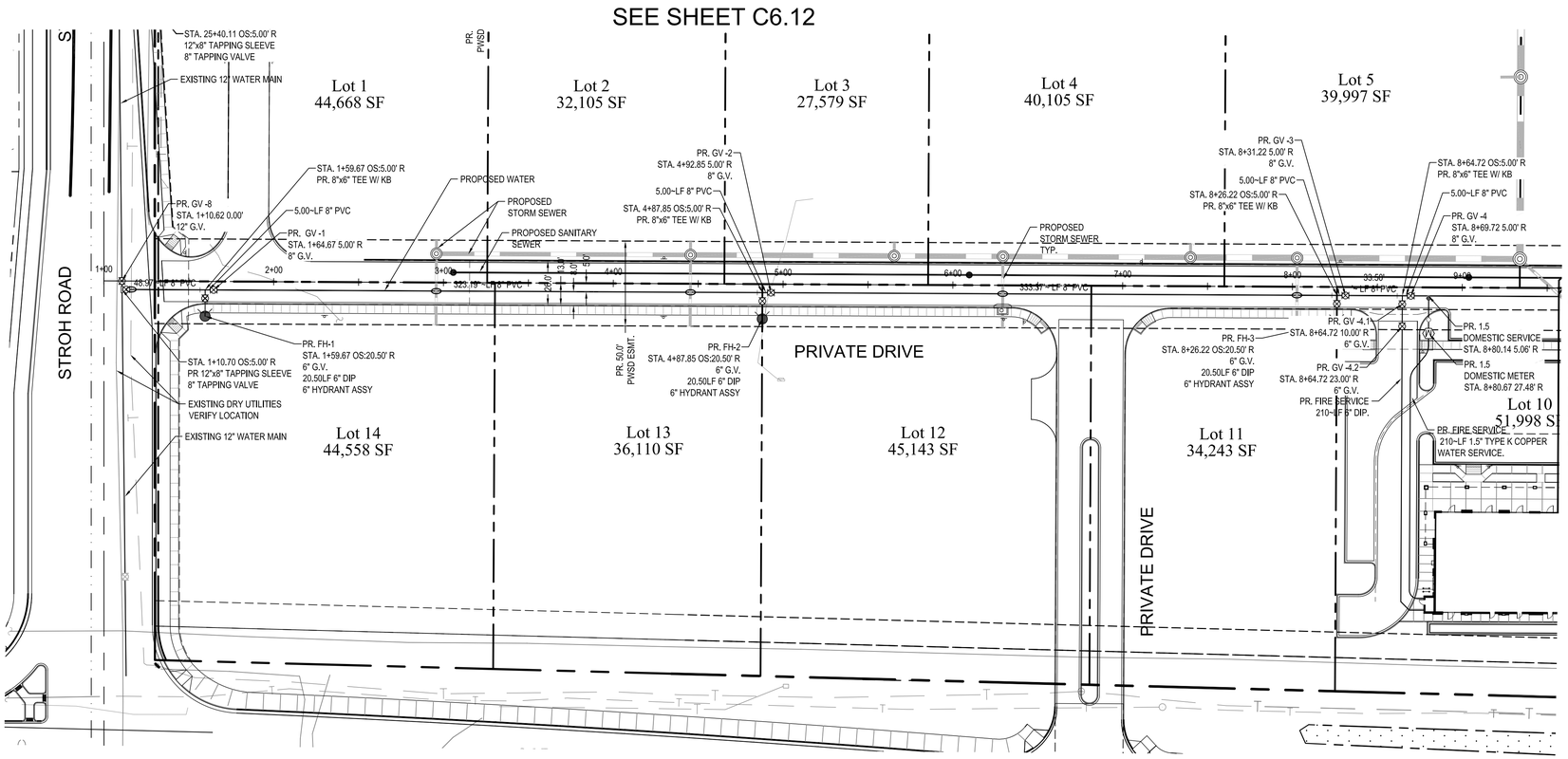
DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

OVERALL UTILITY PLAN

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C7.02



ABBREVIATIONS

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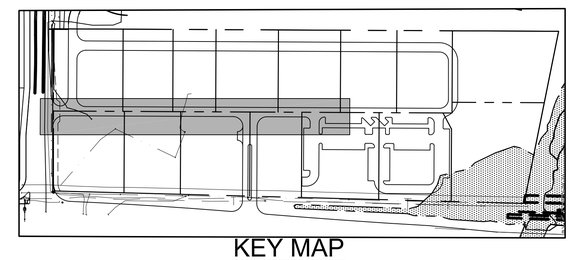

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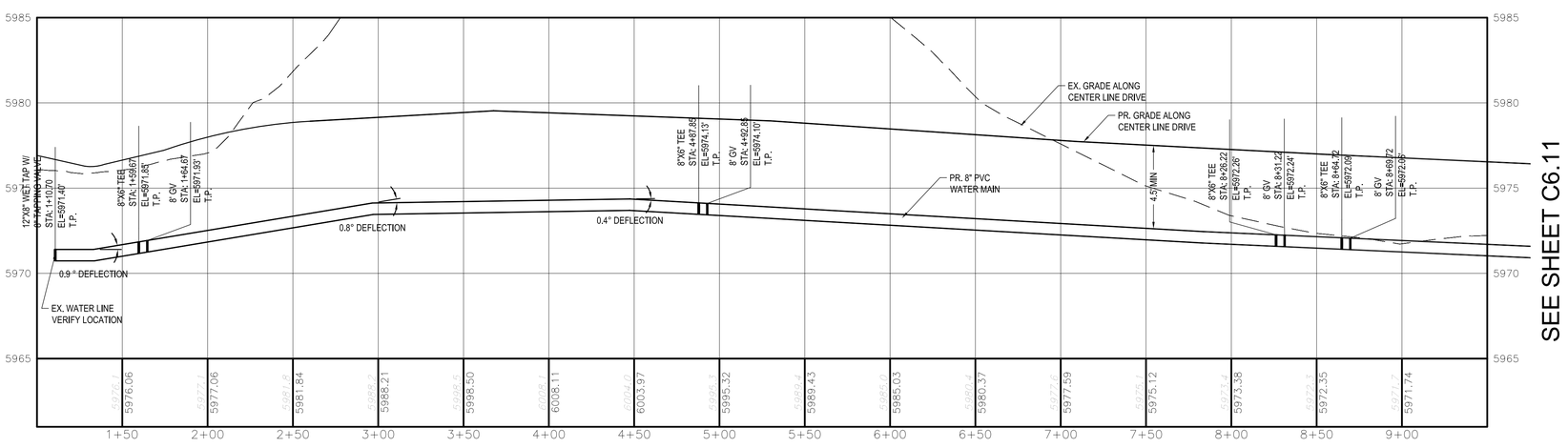

DRIVE CENTERLINE PROFILE
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STA: 1+00.00 TO STA: 9+50.00

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DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

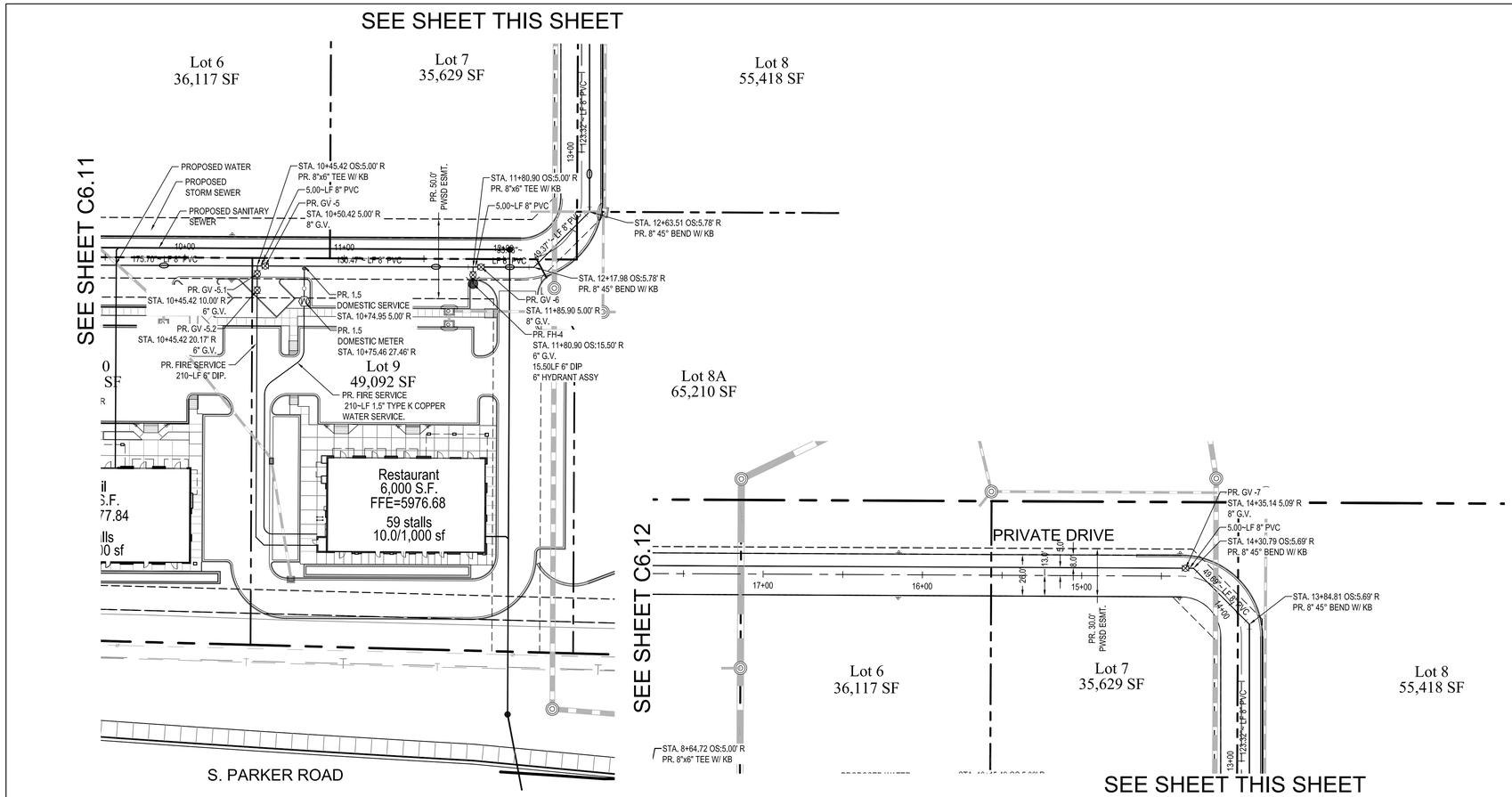
REVISIONS

WATER PLAN AND PROFILE

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C7.11



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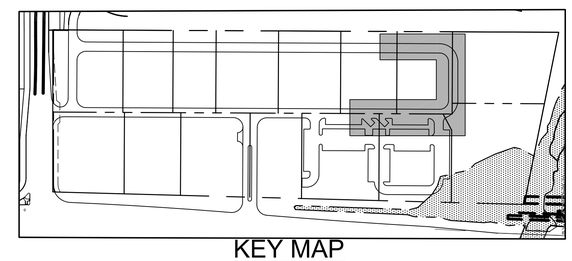
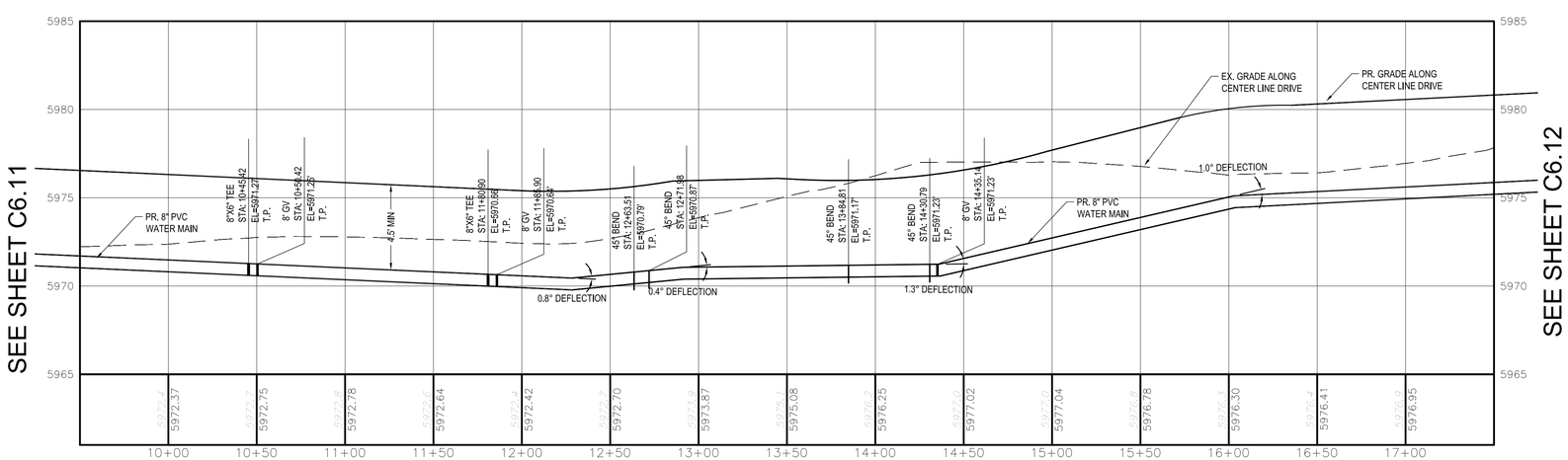


KEY MAP



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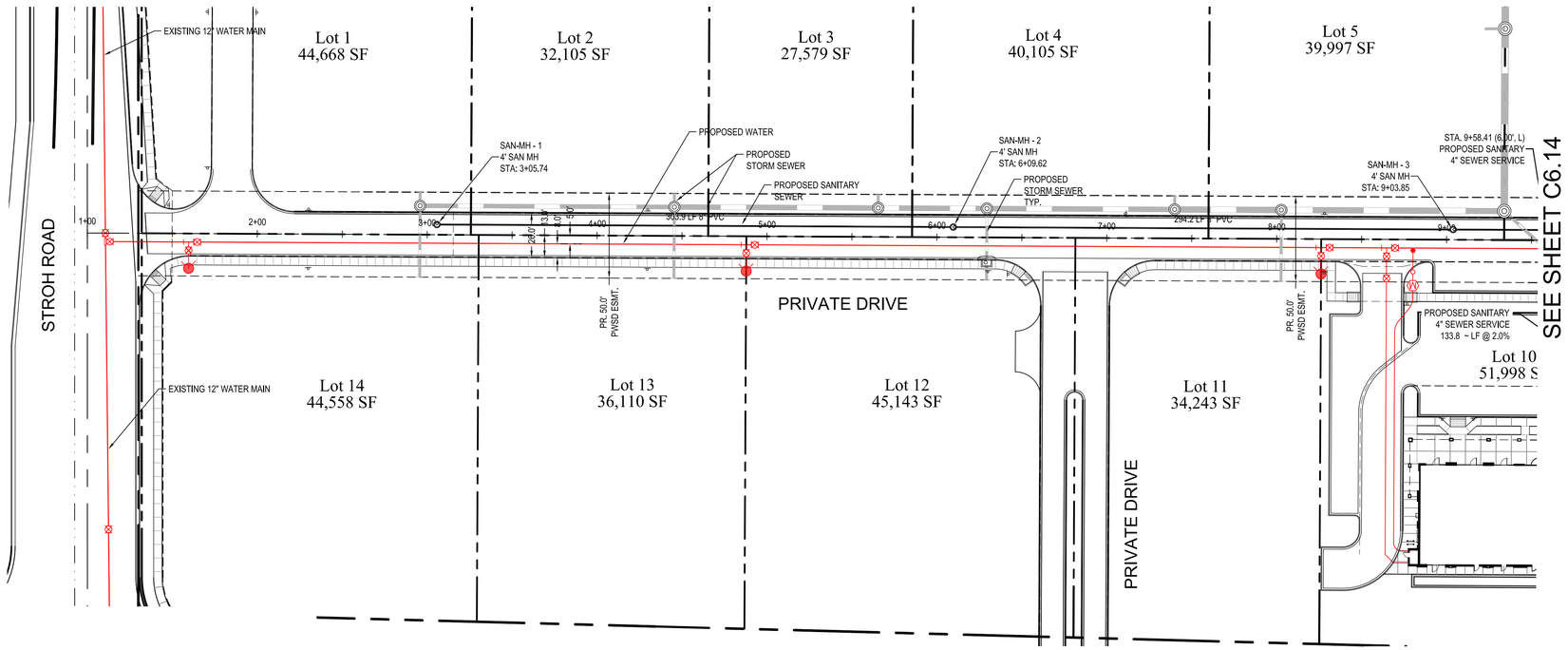
1	10/24/17	INITIAL SUBMITTAL

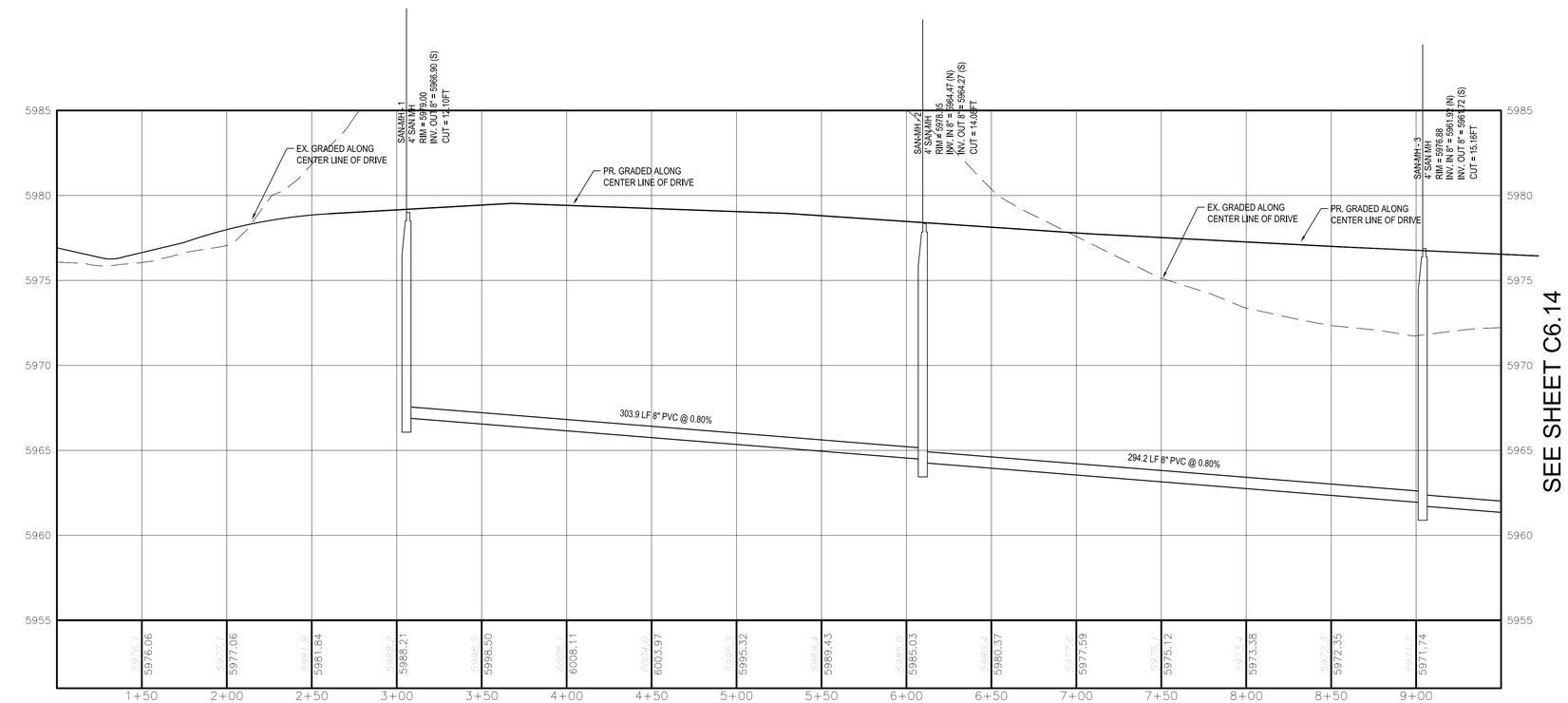
WATER PLAN AND PROFILE

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C7.12





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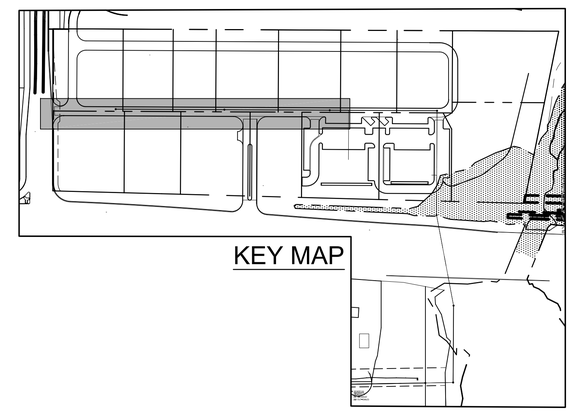

KEY MAP

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GRAPHIC SCALE
-40 0 20 40 80
(IN FEET)
1 inch = 40ft.

BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT TT15A – 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US HIGHWAY 83) ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-238-5255

PREPARED UNDER THE DIRECT SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC.

	DATE	DESCRIPTION
1	10/24/17	INITIAL SUBMITTAL

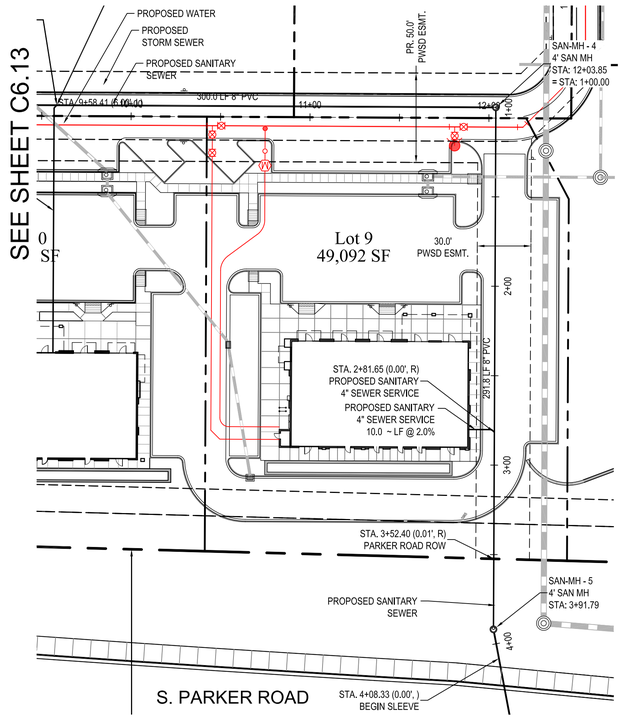
REVISIONS

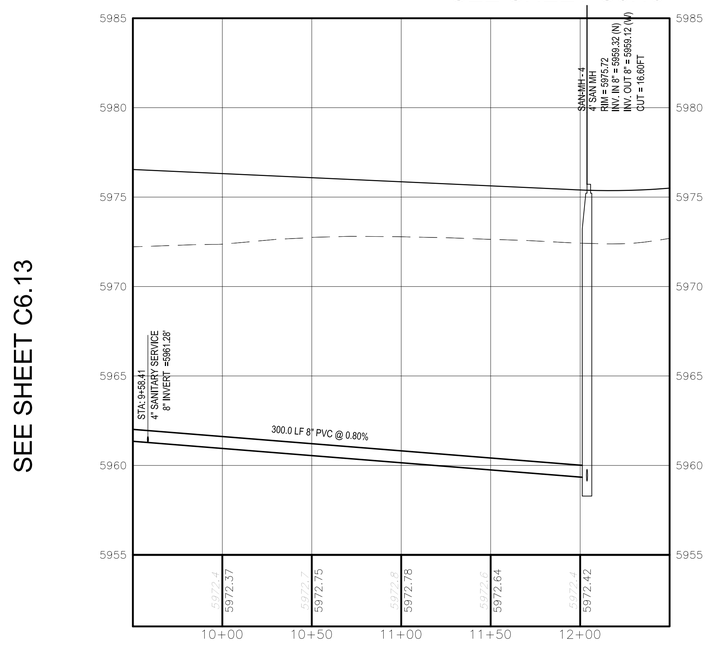
SANITARY PLAN & PROFILE

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

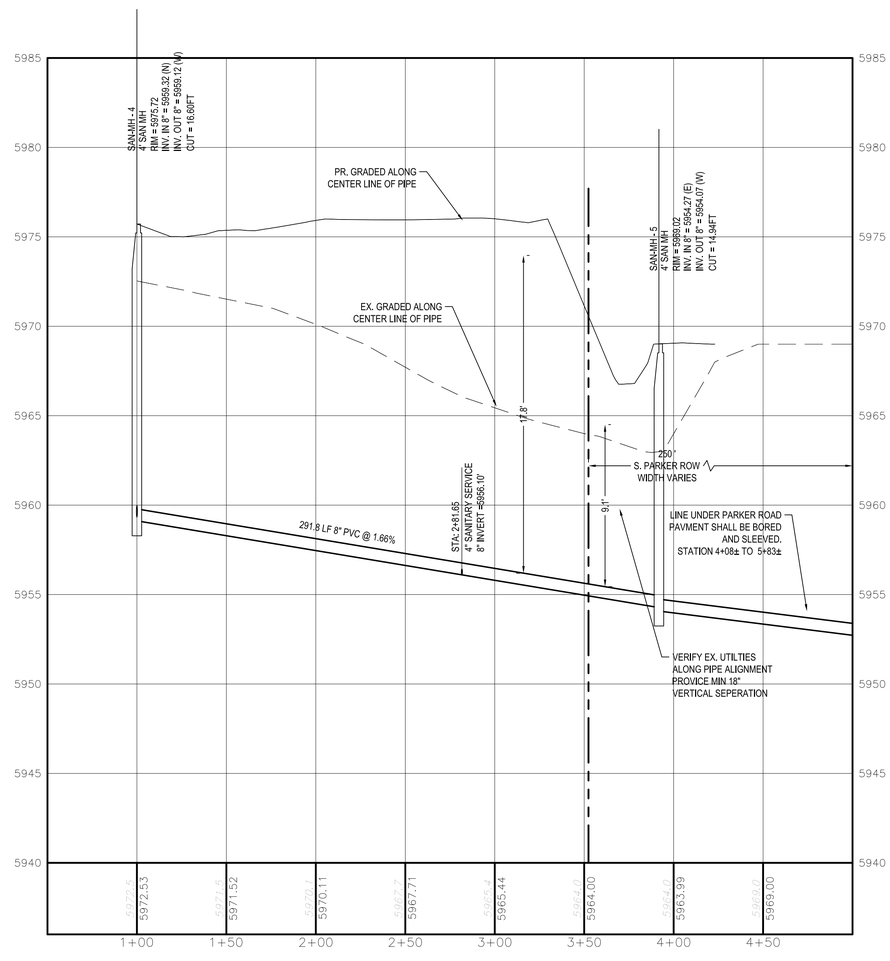
design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C7.13





DRIVE CENTERLINE PROFILE
SCALE: (H) 1" = 40' (V) 1" = 4'
STA: 9+50.00 TO STA: 12+50.00



SANITARY SEWER PROFILE
SCALE: (H) 1" = 40' (V) 1" = 4'
STA: 0+50.00 TO STA: 5+00.00

SEE SHEET C6.15

ABBREVIATIONS

ASSY	ASSEMBLY
BP	BOTTOM OF PIPE
ESMT	EASEMENT
ELEV	ELEVATION
EX	EXISTING
DIP	DUCTILE IRON PIPE
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FU	FUTURE
GV	GATE VALVE
INV	INVERT
KB	KICK BLOCK / THRUST BLOCK
PR	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
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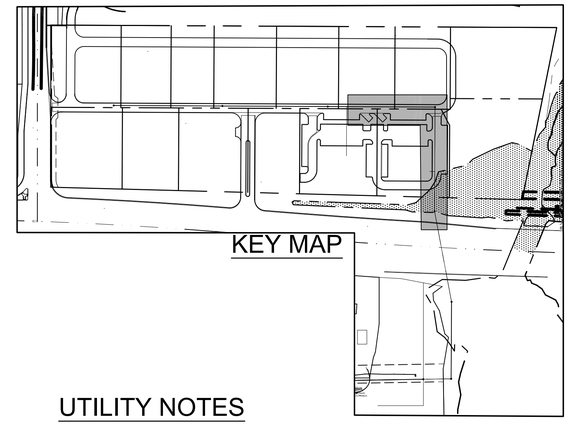

KEY MAP

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REVISIONS

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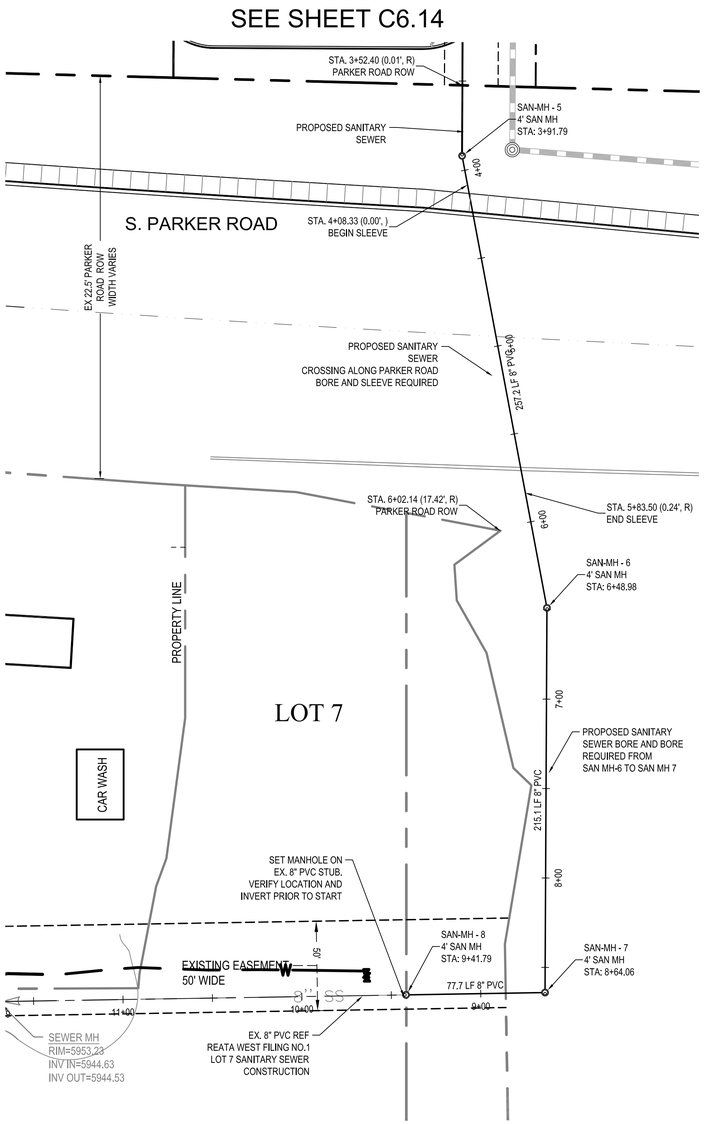
PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C7.14



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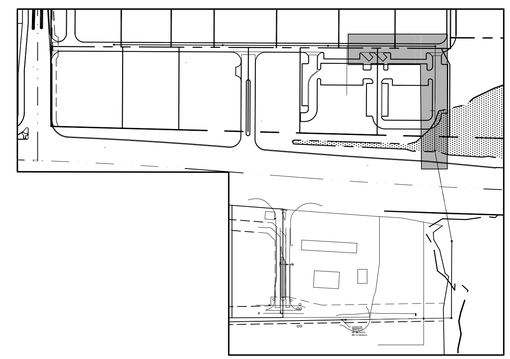

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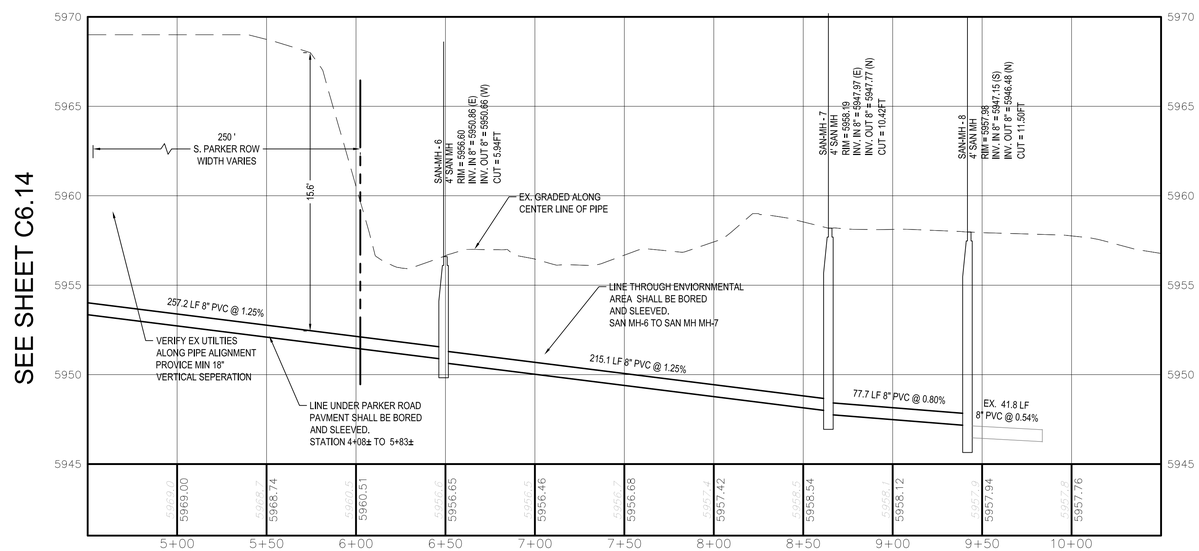

SANITARY SEWER PROFILE
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SANITARY PLAN AND PROFILE

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

SHEET
C7.15

INSPECTION POLICY:

1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT OFFICE AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
2. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTE 1 ABOVE AND A RE-INSPECTION FEE CHARGED.
3. SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
4. THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
5. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
6. LOTS WITHOUT BULDING ADDRESSES OR LOT AND BLOCK NUMBERS BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
7. CONTRACTOR MUST BE PRESSENT AT TIME OF INSPECTION UNLESS COORDINATED WITH DISTRICT INSPECTOR.

INSTALLATION NOTES:

SEWER

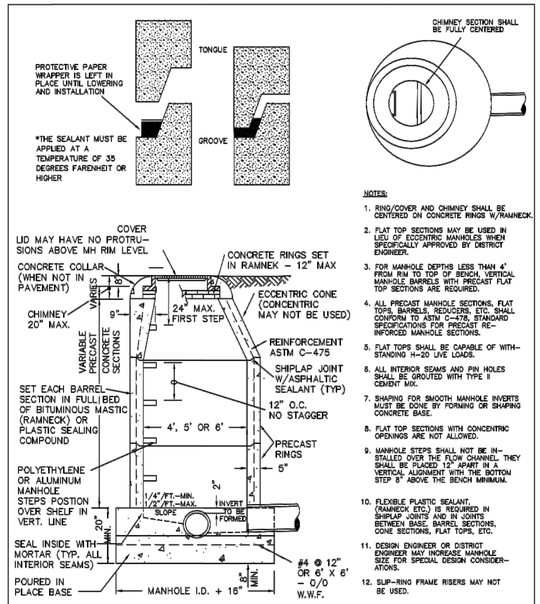
1. ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND PVC SCHD 40 PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
2. NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3°.
3. MINIMUM GRADE SHALL BE 2%.
4. INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS ARE NOT ALLOWED. SOLVENT WELDED PIPE WILL NOT BE ALLOWED.
5. CLEAN-OUTS SHALL BE INSTALLED AT 100' INTERVALS AND EVERY CHANGE IN DIRECTION. CLEAN-OUTS ARE NOT REQUIRED FOR SERVICES LESS THAN 100' UNLESS THERE ARE CHANGES IN DIRECTION. PROVIDE DUAL CLEAN-OUT WITHIN 5 FEET OF FOUNDATION.
6. STRESSING OF THE PIPE BETWEEN FITTINGS WILL NOT BE ALLOWED.
7. SEWER SERVICE LINE SHALL NOT BE LOCATED UNDER CONCRETE SURFACE.
8. ALL SERVICES WILL BE PERMANANTELY MARKED ON CURB FACE AS FOLLOWS:
   "X" FOR SANITARY SEWER SERVICE
   "V" FOR WATER SERVICES

PARKER WATER & SANITATION DISTRICT

DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES

SCALE: NONE | DATE: 2/98
APPROVED: PVR | 01/02 10/16 1/08 1/16
DIRECTOR OF ENGINEERING

2016 REVISION | SHEET S1.1



NOTES:

1. RING/COVER AND CHIMNEY SHALL BE CENTERED ON CONCRETE RINGS W/RAMNECK.
2. FLAT TOP SECTIONS MAY BE USED IN LIEU OF ECCENTRIC MANHOLES WHEN SPECIFICALLY APPROVED BY DISTRICT ENGINEER.
3. FOR MANHOLE DEPTHS LESS THAN 4' FROM RIM TO TOP OF BENCH, VERTICAL MANHOLE BARRELS WITH PRECAST FLAT TOP SECTIONS ARE REQUIRED.
4. ALL PRECAST MANHOLE SECTIONS, FLAT TOPS, BARRELS, REDUCERS, ETC. SHALL CONFORM TO ASTM C-478, STANDARD SPECIFICATIONS FOR PRECAST REINFORCED MANHOLE SECTIONS.
5. FLAT TOPS SHALL BE CAPABLE OF WITHSTANDING H-20 LIVE LOADS.
6. ALL INTERIOR SEAMS AND PIN HOLES SHALL BE GROUTED WITH TYPE II CEMENT MIX.
7. SHAPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING OR SHAPING CONCRETE BASE.
8. FLAT TOP SECTIONS WITH CONCENTRIC OPENINGS ARE NOT ALLOWED.
9. MANHOLE STEPS SHALL NOT BE INSTALLED OVER THE FLOW CHANNEL. THEY SHALL BE PLACED 12" APART IN A VERTICAL ALIGNMENT WITH THE BOTTOM STEP 8" ABOVE THE BENCH MINIMUM.
10. FLEXIBLE PLASTIC SEALANT, (RAMNECK ETC.) IS REQUIRED IN SHIPLAP JOINTS AND IN JOINTS BETWEEN BASE, BARREL SECTIONS, CONE SECTIONS, FLAT TOPS, ETC.
11. DESIGN ENGINEER OR DISTRICT ENGINEER MAY INCREASE MANHOLE SIZE FOR SPECIAL DESIGN CONSIDERATIONS.
12. SLIP-RING FRAME RISERS MAY NOT BE USED.

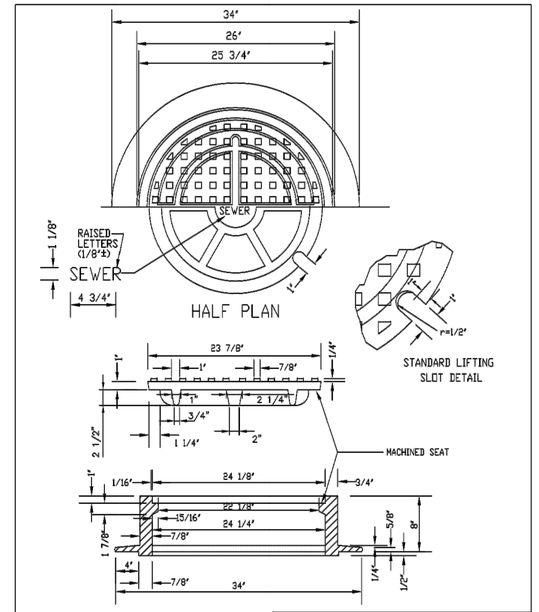
PIPE I.D.	MANHOLE I.D.
18" & SMALLER	4'-0"
21" TO 48"	5'-0"
54"	6'-0"
60" & LARGER	SPECIAL DESIGN

PARKER WATER & SANITATION DISTRICT

PARKER MANHOLE ECCENTRIC CONE

SCALE: NONE | DATE: 2/98
APPROVED: PVR | 4/01 10/16 01/02 1/08 1/16
DIRECTOR OF ENGINEERING

2016 REVISION | SHEET S3.1



NOTE:

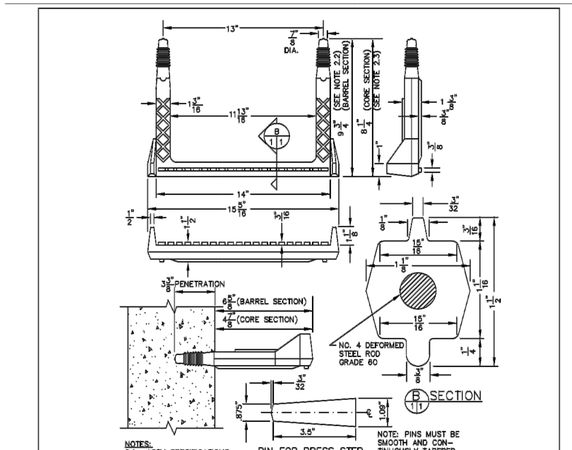
1. Casting Specifications: ASTM A-48 With A Minimum Tensile Strength Of 25 KSI (Class 25)
2. All Casting To Be Dipped In Asphalt Base Paint (Or Approved Equal).
3. No other manhole lids will be accepted without prior approval from the District Engineer.

PARKER WATER & SANITATION DISTRICT

24" DIAMETER RING AND COVER

SCALE: NONE | DATE: 2/98
APPROVED: PVR | 01/16 10/16
DIRECTOR OF ENGINEERING

2016 REVISION | SHEET S3.9



NOTES:

2.1 ASTM SPECIFICATIONS:
a) ASTM C-478
b) ASTM A-615 GRADE 60 (STEEL ROD)
c) ASTM 2148-89, TYPE II, GRADE 16906 (POLYPROPYLENE)
2.2 STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURE SHALL HAVE A 9-3/4 INCH LEG AND SHALL PROJECT FROM THE WALL 6-5/8 INCHES.
2.3 STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8-1/4 INCH LEG AND SHALL PROJECT FROM THE WALL 4-7/8 INCHES.
2.4 ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3-3/8 INCHES.
2.5 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY TAPERED PIN TO FORM THE INSERT HOLE AS SHOWN.
2.6 INSTALLED STEPS SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 2500 P.S.I. PER LEG FOR A MINIMUM PERIOD OF TWO MINUTES.
2.7 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD EXCLUSIVELY FOLLOWING MANUFACTURER'S RECOMMENDED PROCEDURE AND SHALL NOT BE GROUTED IN PLACE.

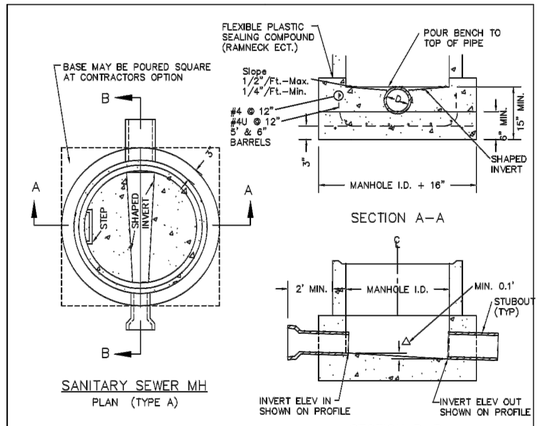
POLYPROPYLENE REINFORCED PLASTIC STEP

PARKER WATER & SANITATION DISTRICT

POLYPROPYLENE REINFORCED PLASTIC MANHOLE STEP

SCALE: NONE | DATE: 2/00
APPROVED: PVR | 01/16 10/16
DIRECTOR OF ENGINEERING

2016 REVISION | SHEET S3.11



NOTES:

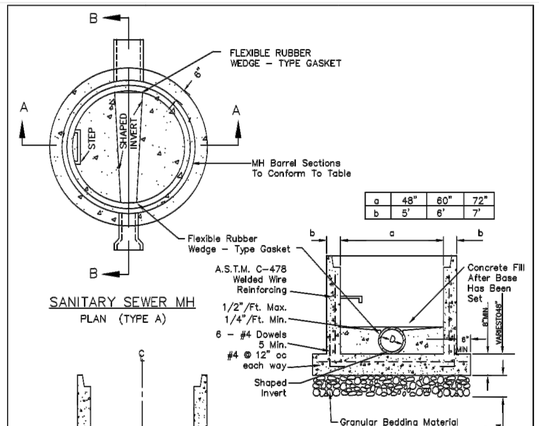
1. Manhole barrel min. thickness to be 5".
2. Shaping for smooth manhole inverts may be done by forming or shaping with cement mortar (San. Sewer).
3. The manhole steps shall conform to District Standards and Specifications.
4. Precast sections to conform to A.S.T.M C-478.
5. All dead-end manholes, that call out a stub out, shall be thru at 0.40% minimum slope.
6. Stub outs shall extend 2'-0" minimum past manhole O.D. and be satisfactorily plugged.
7. Reinforcing in base required for manhole.
8. Slope of bench = 1/2"/Ft.-Max. 1/4"/Ft.-Min.
9. △ = invert drop thru MH (if △ > 18", outside drop MH required). Min. 0.1' for all straight through MH and 0.2' for all angled MH.

PARKER WATER & SANITATION DISTRICT

CAST-IN-PLACE MANHOLE BASE DETAIL

SCALE: NONE | DATE: 2/98
APPROVED: PVR | 01/02 01/16 10/16
DIRECTOR OF ENGINEERING

2016 REVISION | SHEET S3.5



a	48"	60"	72"
b	5'	6'	7'

NOTES:

1 Base slab shall be cast monolithic with the bottom riser section.
2 All pipe openings shall be formed with an approved flexible rubber wedge - type gasket conforming to A.S.T.M. C-443 which shall be capable of providing a water - tight joint with zero leakage around the installed pipe(s).
3 Manhole steps installed in bottom riser section shall conform to PWSD Standards and Specifications.
4 Shiplap joint on manhole barrel riser shall conform to PWSD Standards and Specifications; however as an alternate a special adapter section may be provided at the first joint in the bottom riser section which will adapt the precast base section to PWSD standard manhole riser sections.
5 Grouted flow channels and inverts shall conform to PWSD Standards and Specifications. Manhole barrel min. diameter shall conform to table. Precast barrel sections to conform to A.S.T.M. C-478. All dead-end manholes shall be stubbed thru at 0.40% minimum slope.
9 Stub outs shall extend 2'-0" min past manhole O.D. and be satisfactorily plugged.
10 Slope of bench = 1/2"/Ft.-Max 1/4"/Ft.-Min.
11 △= Invert drop thru Manhole (if > 18", outside drop MH req'd)

ATTENTION:
NOT TO BE USED WITHOUT EXPRESS PERMISSION OF DISTRICT ENGINEER.

PARKER WATER & SANITATION DISTRICT

PRECAST MANHOLE BASE DETAIL

SCALE: NONE | DATE: 2/98
APPROVED: PVR | 01/02 10/16
DIRECTOR OF ENGINEERING

2016 REVISION | SHEET S3.4

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
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303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

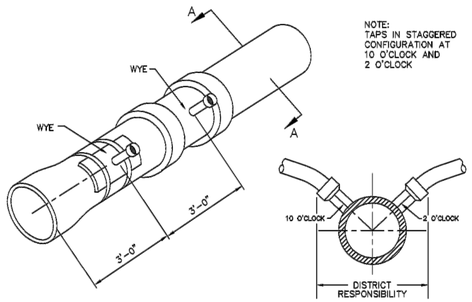
REVISIONS

WATER AND SEWER DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C7.90



NOTE:
TAPS IN STAGGERED CONFIGURATION AT 10 O'CLOCK AND 2 O'CLOCK

SECTION A – A

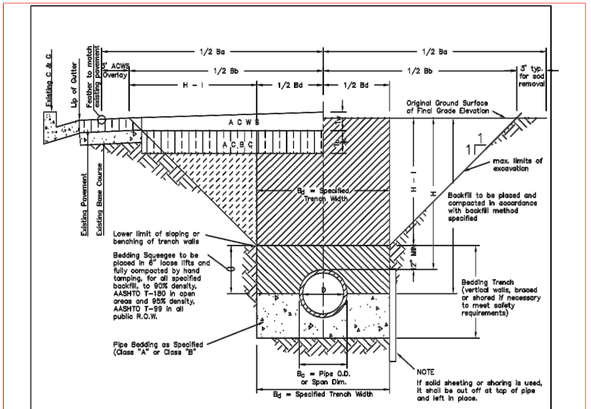
Sewer service connections shall be positioned at either the 2 o'clock or the 10 o'clock postion on the circumference of the sewer main. On new installations, tee or wye fittings shall be used.When tapping into existing sewer main, a saddle connection and approved coring method shall be used. The minimum distance between service connections made along the pipe shall be 3 feet. The minimum distance from either the bell or spigot end of a pipe shall be 3 feet. The minimum distance from the center of a manhole to a service connection shall be either 7 feet or the transition point from the manhole trench to the normal pipe trench, whichever is greater. A maximum of 4 sewer service connections shall be allowed per 20 foot length of pipe. In all cases, a specific soils investigation should be conducted to assure that the external loading will be within allowable limits regardless of the number of taps involved.

DOMESTIC SEWER TAPPING DETAIL

PARKER WATER & SANITATION DISTRICT	
DOMESTIC SEWER TAPPING DETAIL	
SCALE: NONE	DATE: 2/96
APPROVED: PVR DIRECTOR OF ENGINEERING	4/01 1/08 1/16 10/16

2016 REVISION

SHEET S4.13



TYPICAL TRENCH DETAIL

T_B = Thickness of Asphaltic Concrete Base Course (A C B C)

T_W = Thickness of Asphaltic Concrete Wearing Surface (A C W S)

T_O = Total Asphalt Thickness (T_B + T_W)

B_O = Outside Pipe or Conduit Span Dimension

B_d = Specified Bedding Trench Width and Max Bedding Trench Width at a point 12" above Top of Pipe (See Note 2)

B_b = Max. Pay Width of Asphaltic Concrete Base Course (or Asphaltic Concrete Cold Mix) (See Note 3)

B_d = Max. Pay Width of Asphaltic Concrete Wearing Surface or Sod Replacement (See Note 3)

H = Depth of Surface to Top of Pipe

H–1= Depth from Surface to 1 ft. above Top of Pipe

TABLE II
ASPHALT AND BASE COURSE REPLACEMENT SCHEDULE

STREET WIDTH	ASPHALTIC BASE COURSE (T_B)	ASPHALTIC WEARING SURFACE (T_W)	TOTAL THICKNESS (T_O)
UP TO 35'	4"	2"	6"
36' TO 44'	4"	3"	7"
44' TO 48'	5"	3"	8"
WIDER THAN 48'	6"	3"	9"

NOTES

1. *Sloping or benching of trench side walls, where permitted shall be in accordance with applicable Federal, State and Local safety regulations.*
2. *Trench shall be braced and shored as necessary to afford safe working conditions or to protect adjacent utilities, structures, etc.. Unless otherwise specified on the plans, no pavement will be made for removal, replacement or relocation of curb and gutter, utilities, sidewalk, structures, etc. outside the maximum limits of excavation as shown and the contractor shall be responsible for protection of same.*
3. *If dimension "Bd" is ≤ 5', then existing asphalt pavement shall be removed and replaced up to the gutter. Maximum asphalt pay widths, B_b & B_d, shall then be based upon this actual width.*

PARKER WATER & SANITATION DISTRICT	
SEWER TRENCHING AND BEDDING DETAIL	
SCALE: NONE	DATE: 2/96
APPROVED: PVR DIRECTOR OF ENGINEERING	5/98 1/16 10/16

2016 REVISION

SHEET S4.1

Perception Design Group, Inc.
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303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
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	DATE	DESCRIPTION
1	10/24/17	INITIAL SUBMITTAL

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PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C7.91

INSPECTION POLICY:

1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
2. SERVICE INSPECTIONS WILL OCCUR BETWEEN 1:00 P.M. AND 3:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
3. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE OR SERVICE FAILS, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE AND A RE-INSPECTION FEE CHARGED.
4. SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
5. THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
6. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
7. LOTS WITHOUT BUILDING ADDRESSES BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
8. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION. UNLESS COORDINATED WITH DISTRICT INSPECTOR.

INSTALLATION NOTES:

WATER

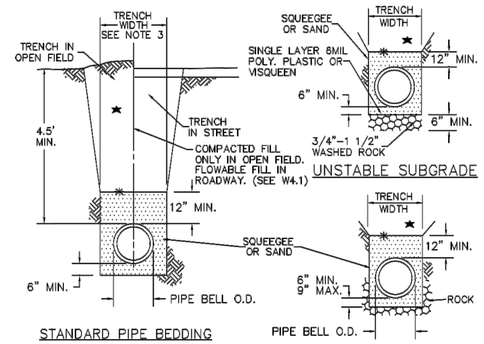
1. ACCEPTABLE PIPE MATERIALS SHALL BE K-COPPER TUBING. (3/4" MIN.)
2. APPROVED BEDDING TO BE SQUEEGEE.
3. ONLY ONE COUPLING WILL BE ALLOWED BETWEEN THE STUB-IN AND BUILDING. COMPRESSION COUPLINGS WILL NOT BE ALLOWED ON NEW CONSTRUCTION. SILVER SOLDERED JOINTS MUST BE USED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSD PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.
4. A WATER SERVICE WHICH CROSSES A SEWER SERVICE CAN DO SO ONLY AT A 45-90° ANGLE. WATER SERVICES SHALL BE LOCATED A MINIMUM OF 18" ABOVE SEWER SERVICE.
5. WATER SERVICE FOUNDATION PENETRATIONS SHALL BE WATERPROOFED USING MASTIC OR OTHER APPROVED METHOD, CRAWL SPACE REQUIRES CONTINOUS COPPER WITH A 1' BURY.
6. CURB STOP MUST BE PLUMB AND CENTERED OVER THE NUT. IT SHOULD BE STRAPPED TO THE METER PIT (RESIDENTIAL INSTALLATIONS) OR CENTERED OVER THE EASEMENT LINE (COMMERCIAL INSTALLATIONS). THE ASSEMBLY MUST BE AT OR SLIGHTLY ABOVE FINISHED GRADE.
7. MOVED CURB BOXES MUST BE INSPECTED BY PWSD PRIOR TO BURIAL.
8. WATERLINE MUST BE ATTACHED TO A SUPPORT BOARD THAT IS MOUNTED TO THE WALL.
9. NO VOIDS ALLOWED UNDER WATERLINES FROM STOP BOX TO FOUNDATION.
10. CURBSTOP BOXES AND METER PITS CANNOT BE IN DRIVEWAYS.
11. ONLY 3/4" (JUMPER) PIPES (RESIDENCES) ARE ALLOWED. (JUMPER) PIPES WILL BE REMOVED PRIOR TO METER SET DATE.
12. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
    "X" FOR SANITARY SEWER SERVICE
    "V" FOR WATER SERVICES
13. NO SPLICES OR FLARED COUPLINGS ALLOWED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE USED IN MOVING STOPBOXES ON SERVICES LARGER THAN 3/4". SILVER SOLDIERED JOINTS MUST BE INSPECTED BY PWSD PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.

PARKER WATER & SANITATION DISTRICT

DISTRICT POLICIES & INSTALLATION NOTES FOR WATER SERVICES

SCALE: NONE	DATE: 2/98
APPROVED: PVR, DIRECTOR OF ENGINEERING	1/04, 1/16, 10/16

2016 REVISION — SHEET W1.1



★ MACHINE COMPACTED TRENCH BACKFILL

✱ LIMIT OF SLOPING OR BENCHING OF TRENCH WALLS

UNDISTURBED GROUND

NOTES:

1. MIN.COVER TO BE BELOW FINAL STREET GRADE CONSTRUCTION OF WATER MAIN MAY NOT START UNTIL FINAL GRADE WITHIN 1 FOOT.
2. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE PROTECTION OF OTHER UTILITIES AND TO MEET OSHA SAFETY REQUIREMENT.
3. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE LARGEST OUTSIDE DIAMETER OF THE PIPE LAID THEREIN (BELL OR COUPLING O.D. IF APPLICABLE). REFER TO SHEET W4.1 FOR DIMENSIONS.

PARKER WATER & SANITATION DISTRICT

BEDDING DETAILS

SCALE: NONE	DATE: 2/98
APPROVED: PVR, DIRECTOR OF ENGINEERING	1/16, 10/16

2016 REVISION — SHEET W4.8

PIPE BEDDING:

(a) Installation of Bedding and Pipe: After completion of the trench excavation and proper preparation of the foundation, six inches (6") of bedding material shall be placed on the trench bottom for support under the pipe. Bell holes shall be dug deep enough to provide a minimum of two inches (2") of clearance between the bell and bedding material. All pipe shall be installed in such a manner as to insure full support of the pipe barrel over its entire length. After the pipe is adjusted for line and grade, and the joint is made, the bedding material shall be carefully placed and tamped under the haunches of the pipe and in the previously dug bell holes.

Tamping is herein defined as the act of placing approved bedding material under the haunches of the pipe, paying particular attention to voids, bell holes, and sling holes. The purpose of tamping is to ensure uniform support for the pipe.

The limits of bedding shall be from six inches (6") below the bottom of the pipe to twelve inches (12") above the top of the pipe. Approved backfill may then be installed to the groundline. See Chapter 2 of these Standards for backfill and compaction of backfill.

Compaction of bedding is not required. The only requirement is sufficient tamping to achieve uniform support under the pipe. See Sheet W4.1 of the Standard Details for a typical trench cross section.

(b) Bedding Material: The bedding material shall be a clean well-graded sand or squeegee sand and shall conform to the following limits when tested by means of laboratory sieves:

Well-Graded Sand for (24-inch or large diameter)

Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 4	70-100
No. 8	36-93
No. 16	20-80
No. 30	8-65
No. 50	2-30
No. 100	1-10
No. 200	0-3

Squeegee Sand
for use with 20-inch or smaller

Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 200	0-3

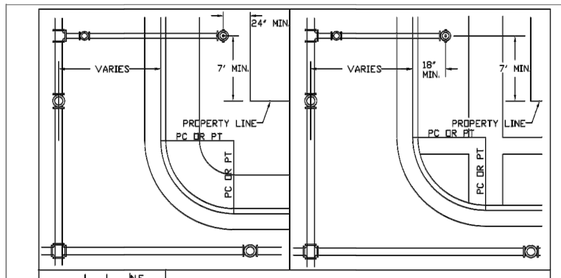
If approved by the District, fines form the trench walls and spoils pile may be used to provide uniform support for the pipe. No rock or stone larger than that allowed by the sieve analysis, or any other detrimental substance, shall be placed closer to the pipe than six inches (6"). Approved bedding materials shall be stockpiled on the jobsite to be used in the event natural materials become unsatisfactory. The District reserves the right to require the use of the specified bedding material at any time.

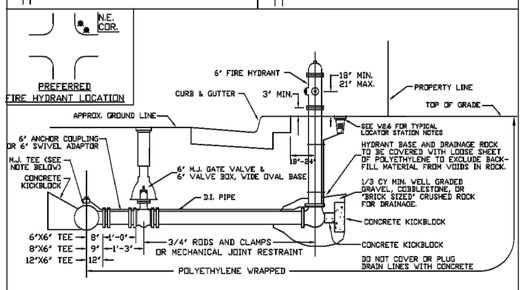
PARKER WATER & SANITATION DISTRICT

PIPE BEDDING

SCALE: NONE	DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING	5/98, 2/00, 1/16, 10/16

2016 REVISION — SHEET W4.2





NOTES:

1. ALTERNATE TO THE ABOVE: FASTEN M.J. VALVE DIRECTLY TO A M.J. ANCHOR TEE (ALSO CALLED SWIVEL TEE)
2. NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH
3. NO PORTION OF FIRE HYDRANT MAY BE WITHIN SIDEWALK AREA.
4. NO PORTION OF FIRE HYDRANT MAY BE WITHIN 18" OF SIDEWALK AREA.
5. FIRE HYDRANT EXTENSIONS MAY NOT BE USED WITHOUT PRIOR APPROVAL

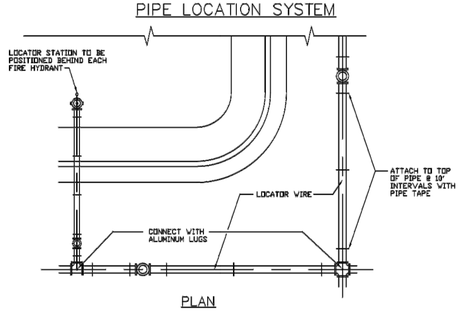
PARKER WATER & SANITATION DISTRICT

FIRE HYDRANTS LOCATION & INSTALLATION

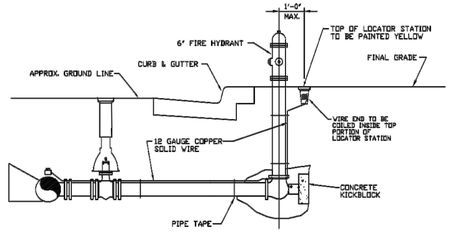
SCALE: NONE	DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING	4/01, 10/16, 01/02, 12/07, 1/16

2016 REVISION — SHEET W2.5

PIPE LOCATION SYSTEM



PLAN



SECTION VIEW @ FIRE HYDRANT

NOTES:

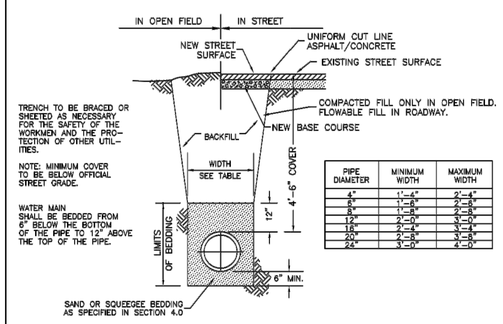
1. FOR USE ON ALL DUCTILE IRON AND PVC WATER MAINS.
2. LOCATOR STATION POSITION MAY BE MODIFIED AT THE DIRECTION OF THE DISTRICT ENGINEER.
3. A CONTINUITY TEST WILL BE REQUIRED PRIOR TO PROBATIONARY ACCEPTANCE.

PARKER WATER & SANITATION DISTRICT

LOCATOR WIRE DETAILS

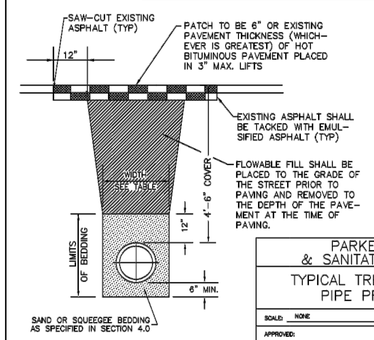
SCALE: NONE	DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING	4/01, 01/02, 01/16, 10/16

2016 REVISION — SHEET W2.6



PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	2'-4"
6"	1'-8"	2'-8"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
16"	2'-4"	3'-4"
20"	2'-8"	3'-8"
24"	3'-0"	4'-0"

STANDARD TRENCH SECTION



STREET CUT PATCH

PARKER WATER & SANITATION DISTRICT

TYPICAL TRENCH SECTION PIPE PROTECTION

SCALE: NONE	DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING	1/16, 10/16

2016 REVISION — SHEET W4.1

Perception Design Group, Inc.
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DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

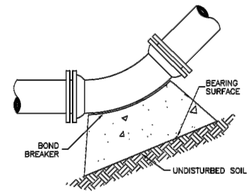
REVISIONS

WATER AND SEWER DETAILS

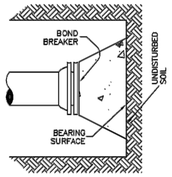
PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

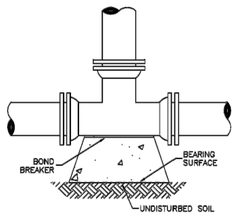
SHEET
C7.92



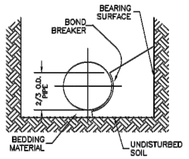
11-1/4°,22-1/2°,45° & 90° BENDS



DEAD END



TEE



TYPICAL CROSS SECTION

MINIMUM BEARING SURFACE AREA
(IN SQUARE FEET)

SIZE OF PIPE	BENDS				TEE OR DEAD END
	11-1/4°	22-1/2°	45°	90°	
4"	1.00	1.00	1.00	1.80	1.50
6"	1.00	1.25	2.25	4.00	3.00
8"	1.00	2.00	4.00	7.50	5.25
12"	2.00	4.25	8.25	15.25	11.00
16"	3.50	6.50	12.50	23.00	16.50
20"	5.00	10.00	19.50	35.50	25.00
24"	6.50	13.00	26.00	47.00	33.00

NOTES:

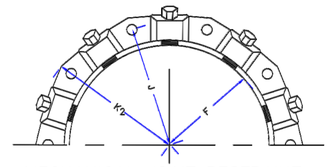
1. ALL VALVES, TEES, BENDS AND PLUGS SHALL BE RESTRAINED AND KICKBLOCKED.
2. BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
3. BASED ON 150 PSI PIPE PRESSURE PLUS WATER HAMMER:
   4", 6" AND 8" WATER HAMMER = 120 PSI.
   12" WATER HAMMER = 110 PSI
   16", 20" AND 24" WATER HAMMER = 70 PSI.
4. SOIL BEARING CAPACITY = 3,000 LBS./SQ. FT.

PARKER WATER & SANITATION DISTRICT

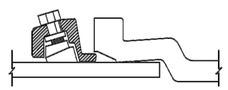
CONCRETE KICKBLOCKS
BEARING SURFACES AND INSTALLATION

SCALE: NONE | DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING | 4/01 1/16 10/16

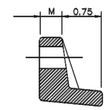
2016 REVISION | SHEET W3.18



MECHANICAL JOINT RESTRAINT



WEDGE DETAIL



BOLT HOLE DETAIL

	NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	K2 INCHES	J INCHES	F INCHES	M INCHES	
PVC	4"	2	2					PVC
	6"	6	3	11.12	9.5	7.00	0.88	
	8"	6	4	13.37	11.75	9.15	1.00	
	10"	8	5	15.62	14.00	11.20	1.00	
	12"	8	8	17.88	16.25	13.30	1.25	
DI	4"	4	2					DI
	6"	6	3	11.12	9.5	7.00	0.88	
	8"	6	4	13.37	11.75	9.15	1.00	
	10"	8	5	15.62	14.00	11.20	1.00	
	12"	8	8	17.88	16.25	13.30	1.25	

NOTES:

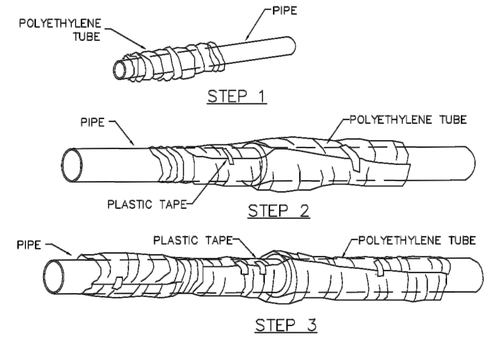
1. DIMENSIONS FOR 16" AND 20" D.I. PIPE NOT SHOWN.

PARKER WATER & SANITATION DISTRICT

MECHANICAL JOINT RESTRAINT DETAILS

SCALE: NONE | DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING | 2/00 12/07 1/16 10/16

2016 REVISION | SHEET W3.17



FIELD INSTALLATION – POLYETHYLENE WRAP

STEP 1 – PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

STEP 2 – PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE.

STEP 3 – OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.

PARKER WATER & SANITATION DISTRICT

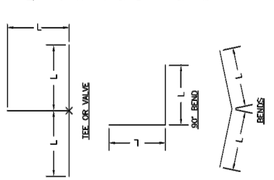
POLYETHYLENE WRAP

SCALE: NONE | DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING | 1/16 10/16

2016 REVISION | SHEET W4.11

LENGTH OF TIED PIPE

PIPE SIZE	4"			6"			8"			12"			16"			20"			24"		
	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G
TEE OR VALVE	3/4"	6.0'	M.S.	3/4"	13.0'	M.S.	3/4"	20.0'	M.S.	3/4"	40.0'	M.S.	3/4"	60.0'	M.S.	1"	80.0'	M.S.	–	155.0'	–
PLUG OR 90° BEND	3/4"	6.0'	M.S.	3/4"	13.0'	M.S.	3/4"	20.0'	M.S.	3/4"	40.0'	M.S.	3/4"	60.0'	M.S.	1"	80.0'	M.S.	–	155.0'	–
45° BEND	3/4"	2.0'	M.S.	3/4"	4.0'	M.S.	3/4"	6.0'	M.S.	3/4"	11.0'	M.S.	1"	18.0'	M.S.	3/4"	24.0'	M.S.	–	45.0'	–
22-1/2° BEND	3/4"	1.0'	M.S.	3/4"	1.0'	M.S.	3/4"	2.0'	M.S.	3/4"	3.0'	M.S.	3/4"	5.0'	M.S.	3/4"	6.0'	M.S.	–	12.0'	–
11-1/4° BEND	3/4"	0.0'	M.S.	3/4"	0.0'	M.S.	3/4"	1.0'	M.S.	3/4"	1.0'	M.S.	3/4"	1.0'	M.S.	3/4"	2.0'	M.S.	–	3.0'	–



NOTES:

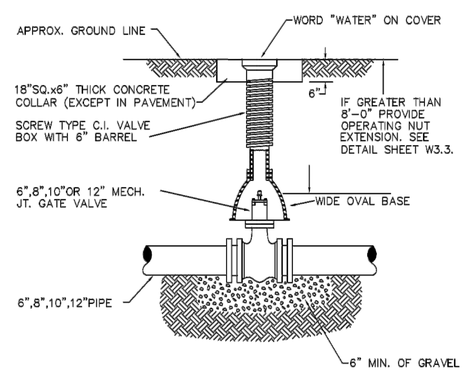
1. LENGTH OF TIED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
2. CLAMPS AND RODS NOT ALLOWED FOR 24" AND LARGER PIPES.
3. D = DIAMETER, L = LENGTH, G = GRADE, M.S. = MILD STEEL, H.S. = HIGH STRENGTH
4. MINIMUM 4.5' GROUND COVER REQUIRED.
5. BASED ON 150 PSI INTERNAL PRESSURE.
6. M.S. MEANS MILD STEEL ROD A.S.T.M. STANDARD DESIGNATION A-36.
7. H.S. MEANS HIGH STRENGTH ROD A.S.T.M. STANDARD DESIGNATION A-193, GRADE B7.
8. NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-307 GRADE A OR B HEXAGON HEAVY SERIES.
9. SEE TIE ROD DETAIL DRAWING. ALSO, TIE ROD COUPLING DETAILS, CLAMP DETAILS AND SET CLAMP DETAILS.
10. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE TIED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
11. STAR BOLTS NOT ALLOWED ON PIPE LARGER THAN 16".
12. MINIMUM OF 4 RODS REQUIRED ON 16" PIPE IF STAR BOLTS ARE USED.
13. TEES ARE TO BE RODDED ON BRANCH ONLY.

PARKER WATER & SANITATION DISTRICT

LENGTH OF TIED PIPE

SCALE: NONE | DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING | 4/01 1/16 10/16

2016 REVISION | SHEET W3.11



6-INCH VALVE BOXES

CHECK MATERIAL SPECIFICATIONS

NOTES:

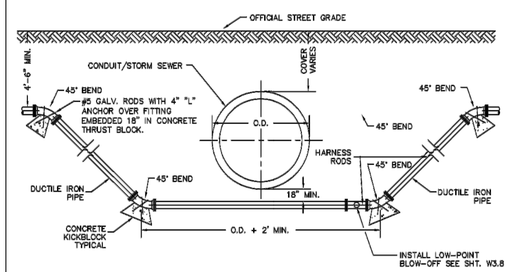
1. ALL C.I. SHALL BE WRAPPED WITH 8 MIL. MIN. THICKNESS POLYETHYLENE.
2. VALVE NUT SHALL BE CENTERED.
3. VALVE BOX SHALL BE PLUMB.
4. SEE MATERIAL SPECIFICATIONS FOR VALVE BOX WITH GREATER THAN BURIED DEPTH OF 4.5 FT.

PARKER WATER & SANITATION DISTRICT

VALVE BOX DETAIL

SCALE: NONE | DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING | 5/98 10/16 6/99 12/07 1/16

2016 REVISION | SHEET W3.10



NOTES:

1. LENGTH OF EXTENSION OF PIPE AND HARNESS RODS SHALL BE IN ACCORDANCE WITH THESE ENGINEERING STANDARDS.
2. ALL WATER MAINS TWELVE (12") INCHES OR SMALLER, WHICH CROSS UNDER CONDUITS/STORM SEWER SHALL BE DUCTILE IRON OR PVC PER SPECIFICATIONS.
3. A BORED CROSSING MAY BE REQUIRED BY THE ENGINEER.
4. CONCRETE KICKBLOCKS PER SHEET W3.18.

PARKER WATER & SANITATION DISTRICT

CONDUIT OR STORM SEWER CROSSING

SCALE: NONE | DATE: 2/96
APPROVED: PVR, DIRECTOR OF ENGINEERING | 5/98 10/16 2/00 12/07 1/16

2016 REVISION | SHEET W4.6

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

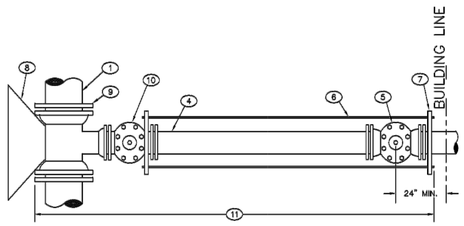
REVISIONS

WATER AND SEWER DETAILS

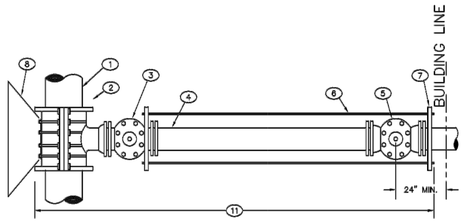
PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
C7.93



FIRE SPRINKLER OR DOMESTIC CONNECTION WITH MAIN EXTENSION



FIRE SPRINKLER OR DOMESTIC CONNECTION

1. EXISTING MAIN
2. TAPPING SLEEVE
3. TAPPING VALVE
4. DOUBLE SPIGOT PIPE
5. PROPERTY LINE VALVE
6. TIE RODS
7. PIPE CLAMP
8. CONCRETE KICKBLOCK
9. M.J. ANCHORING TEE (SWIVEL TEE)
10. M.J. VALVE
11. POLYETHYLENE WRAPPED

PARKER WATER & SANITATION DISTRICT

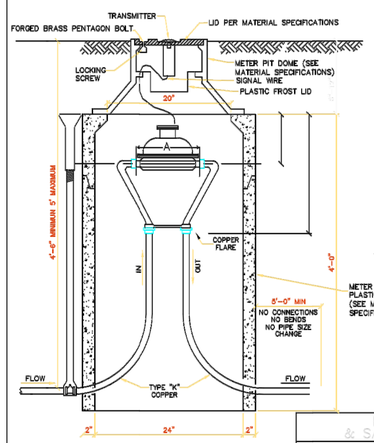
3" AND LARGER DOMESTIC AND FIRE SPRINKLER CONNECTIONS

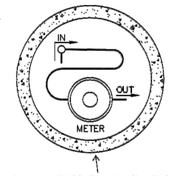
SCALE: NONE | DATE: 2/98

APPROVED: PVR, DIRECTOR OF ENGINEERING | 1/16, 10/16

2016 REVISION | SHEET W5.18

1. INSTALLATION IN ROADWAYS, PARKING AREAS OR DRIVEWAYS IS PROHIBITED.
2. IF SURFACE IS NOT TO FINAL GRADE AT TIME OF INSTALLATION OF METER, OWNER MUST RAISE OR LOWER PIT WHEN SURFACE IS GRADED.
3. METER SETTING MUST BE INSPECTED BY THE DISTRICT BEFORE BACKFILLING.
4. LOCATION OF METER TO BE ESTABLISHED BY A DISTRICT REPRESENTATIVE.
5. NO CONCRETE FLOOR TO BE LAID IN METER PIT.
6. 8" FROM BOTTOM OF DOME TO YOKE SPREAD FOR METER
7. NO CONNECTIONS OR CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR IN THE DISTANCE OF FIVE FEET BEYOND THE METER PIT WALL ON THE OUTLET SIDE.
8. LAWN SPRINKLER CONNECTION SHALL BE A MINIMUM OF FIVE FEET FROM THE METER PIT WALL ON THE OUTLET SIDE.
9. A COPY OF THE PERMIT CARD MUST BE ONSITE AT TIME OF METER SET.





SINGLE SETTER METER YOKES

PLAN

METER SIZE	A
3/4"	7 1/2"
1"	10 3/4"

PARKER WATER & SANITATION DISTRICT

RESIDENTIAL ALL OUTSIDE SETTINGS FOR 3/4" & 1" METERS

SCALE: NONE | DATE: 2/98

APPROVED: PVR, DIRECTOR OF ENGINEERING | 01/04, 06/05, 01/08, 01/12 | 01/16, 10/16

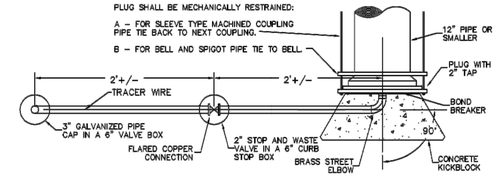
2016 REVISION | SHEET W5.11

NOTE:

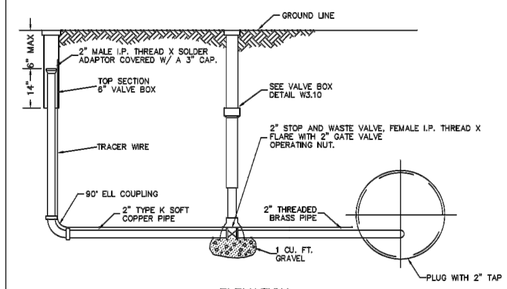
PLUG SHALL BE MECHANICALLY RESTRAINED:

A – FOR SLEEVE TYPE MACHINED COUPLING PIPE TIE BACK TO NEXT COUPLING.

B – FOR BELL AND SPIGOT PIPE TIE TO BELL.



PLAN



ELEVATION

PARKER WATER & SANITATION DISTRICT

BLOW-OFF INSTALLATION FOR 12" & SMALLER PIPE

SCALE: NONE | DATE: 2/98

APPROVED: PVR, DIRECTOR OF ENGINEERING | 4/01, 1/16, 10/16

2016 REVISION | SHEET W3.7

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
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DATE	DESCRIPTION
10/24/17	INITIAL SUBMITTAL

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WATER AND SEWER DETAILS

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015
date: 10/01/17

SHEET
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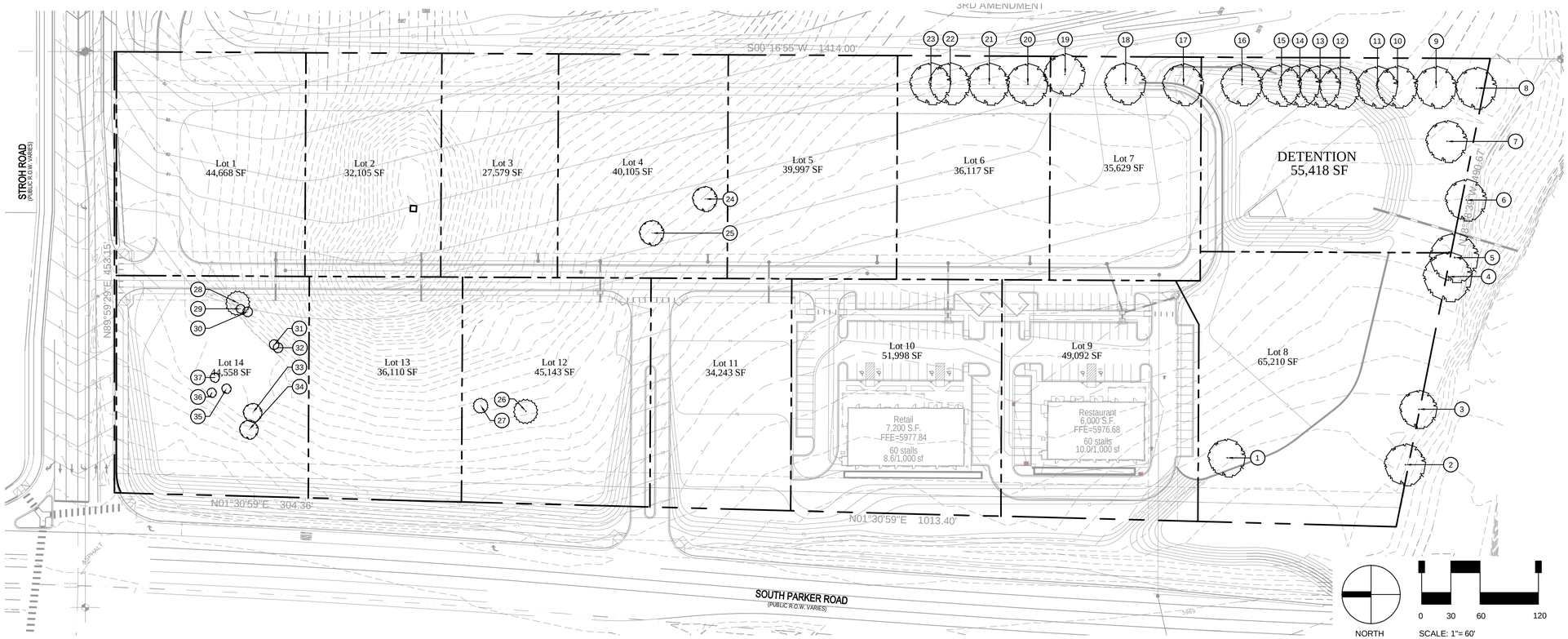

TREE INVENTORY DATA AND VALUATION

TREE #	SPECIES	CONDITION	SIZE-DSH*	MITIGATION	COMMENTS
1	Silver Maple/Acer platanoides	Good	38	Preserve	Prune
2	Cottonwood/Populus sargentii	Good	73	Preserve	
3	Cottonwood/Populus sargentii	Good	67	Preserve	
4	Cottonwood/Populus sargentii	Fair	72	Preserve	
5	Cottonwood/Populus sargentii	Good	44	Preserve	
6	Cottonwood/Populus sargentii	Good	74	Preserve	Low trunk fork
7	Cottonwood/Populus sargentii	Fair	61	Preserve	
8	Cottonwood/Populus sargentii	Very Good	118	Preserve	
9	Cottonwood/Populus sargentii	Good	68	Preserve	
10	Cottonwood/Populus sargentii	Fair	64	Preserve	
11	Cottonwood/Populus sargentii	Good	68	Remove	
12	Cottonwood/Populus sargentii	Good	62	Remove	
13	Cottonwood/Populus sargentii	Fair	51	Remove	Low trunk fork
14	Cottonwood/Populus sargentii	Good	64	Remove	
15	Cottonwood/Populus sargentii	Good	54	Remove	
16	Cottonwood/Populus sargentii	Good	98	Remove	
17	Cottonwood/Populus sargentii	Good	106	Remove	
18	Cottonwood/Populus sargentii	Good	112	Remove	
19	Cottonwood/Populus sargentii	Good	49	Remove	
20	Cottonwood/Populus sargentii	Good	108	Remove	
21	Cottonwood/Populus sargentii	Good	84	Remove	
22	Cottonwood/Populus sargentii	Good	72	Remove	Low trunk fork
23	Cottonwood/Populus sargentii	Good	70	Remove	
24	American Elm/Ulmus Americana	Fair/Good	25	Remove	Prune
25	American Elm/Ulmus Americana	Good	22	Remove	Prune
26	Ponderosa Pine/Pinus ponderosa	Very Good	24	Remove	
27	Austrian Pine/Pinus nigra	Good	16	Remove	Prune
28	Blue Spruce/Picea pungens	Poor/Fair	17	Remove	Weak/thin
29	Mugho Pine/Pinus mugho	Poor/Fair	17 / 27	Remove	Mis-shapen
30	Blue Spruce/Picea pungens	Very Good	25	Remove	
31	Ponderosa Pine/Pinus ponderosa	Very Good	19	Remove	
32	Ponderosa Pine/Pinus ponderosa	Very Good	29	Remove	
33	Norway Maple/Acer platanoides	Very Good	52	Remove	
34	Crabapple/Acer platanoides	Very Good	74	Remove	Prune
35	Gray Juniper/Juniperus sp., variety unknown	Good/Very Good	23	Remove	
36	Gray Juniper/Juniperus sp.,variety unknown	Fair	14	Remove	Storm damage
37	Gray Juniper/Juniperus sp., variety unknown	Fair	10	Remove	Storm damage

*(DSH) - DIAMETER (OR CALIPER) MEASURED INCHES AT STANDARD HEIGHT, 4.5 FEET ABOVE THE SOIL GRADE.

TREE INVENTORY NOTES

1. VALUATION: WE USED THE WIDELY ACCEPTED FORMULA METHOD (TFM) TO CALCULATE THESE TREE VALUATIONS BASED ON THE GUIDE FOR PLANT APPRAISAL, 9TH EDITION AND ISA ROCKY MOUNTAIN, SPECIES RATING AND APPRAISAL FACTORS GUIDE.
2. FOR THE JUNIPER VALUATION, WE APPLIED THE SPECIES RATING VALUES AND PRICING FOR WHITE FIR, ABIES CONCOLOR – SINCE THESE ARE BOTH NATIVE COLORADO TREES THAT HAVE SOMEWHAT SIMILAR GROWING REQUIREMENTS. TREE VALUATIONS WERE BASED ON BOTH BALLED AND BURLAPED (B&B) – SPECIAL ORDER OR SPADED PRICING.
3. A SEPARATE FORM CONVEYING TFM VALUES AND COST HAS BEEN SUBMITTED TO THE TOWN.

LEGEND

EX. EVERGREEN TREE

EX. DECIDUOUS TREE

TREE PRESERVATION NOTES

1. THIS TREE PRESERVATION PLAN WAS DONE IN ACCORDANCE WITH THE TOWN OF PARKER MUNICIPAL CODE. BOB HOWEY, ISA CERTIFIED ARBORIST AND ASCA CONSULTING ARBORIST, WORKING FOR/AS TREE ANALYSIS GROUP, LLC (TAG) IS PROVIDING THIS TREE ASSESSMENT AND VALUATION FOR THE 37 TREES AS INDICATED ON THE PROVIDED SITE PLAN AND BASED ON THE INSPECTION ON 10/1/2017. SOME OF THESE TREES ARE INTENDED TO REMAIN WITH THE PLANNED NEW DEVELOPMENT AND SOME ARE TO BE REMOVED FROM THE DEVELOPMENT SITE LOCATED AT THE SOUTHEAST CORNER OF STROH ROAD AND PARKER ROAD, PARKER, CO.
2. ENFORCEMENT OF THE TREE PRESERVATION SHALL BE IN ACCORDANCE WITH THE TOWN'S MUNICIPAL CODE.
3. THE REMOVAL OR DESTRUCTION OF EACH TREE AND SHRUB IN VIOLATION OF THE PREVISIONS OF THIS SECTION FOR EACH DAY THE VIOLATION HAS OCCURRED IN VIOLATION OF AN APPROVED TREE CONSERVATION PLAN BY THE TOWN SHALL BE CONSIDERED A SEPARATE OFFENCE.
4. IN ADDITION TO THE REMEDIES DESCRIBED IN THIS SECTION, THE TOWN MAY REFUSE TO ISSUE ANY BUILDING PERMITS OR CERTIFICATES OF OCCUPANCY UNTIL THE VIOLATION IS CURED.
5. TREES AND SHRUBS DESIGNATED AS "PRESERVE" ON THE CONSERVATION PLAN SHALL BE PROTECTED FROM DAMAGE CAUSED BY CONSTRUCTION-RELATED ACTIVITIES IN ACCORDANCE WITH SPECIFICATIONS SET FORTH BY THE ISA OR THE TCIA.
6. SEE LANDSCAPE PLAN FOR LOCATION, SIZE, AND SPECIES OF PROPOSED PLANTING MATERIAL.

Sterling Design Associates, llc
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
2009 W. Littleton Blvd. #300
Littleton, CO 80120
303.794.4727 ph
www.SterlingDesignAssociates.com

PREPARED UNDER THE DIRECT SUPERVISION OF JOSEPH L. WILSON, CID, PLA, COLORADO REGISTRATION LA-304 FOR & ON BEHALF OF STERLING DESIGN ASSOCIATES, LLC

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6901 South Pierce Street, Suite 315
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303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

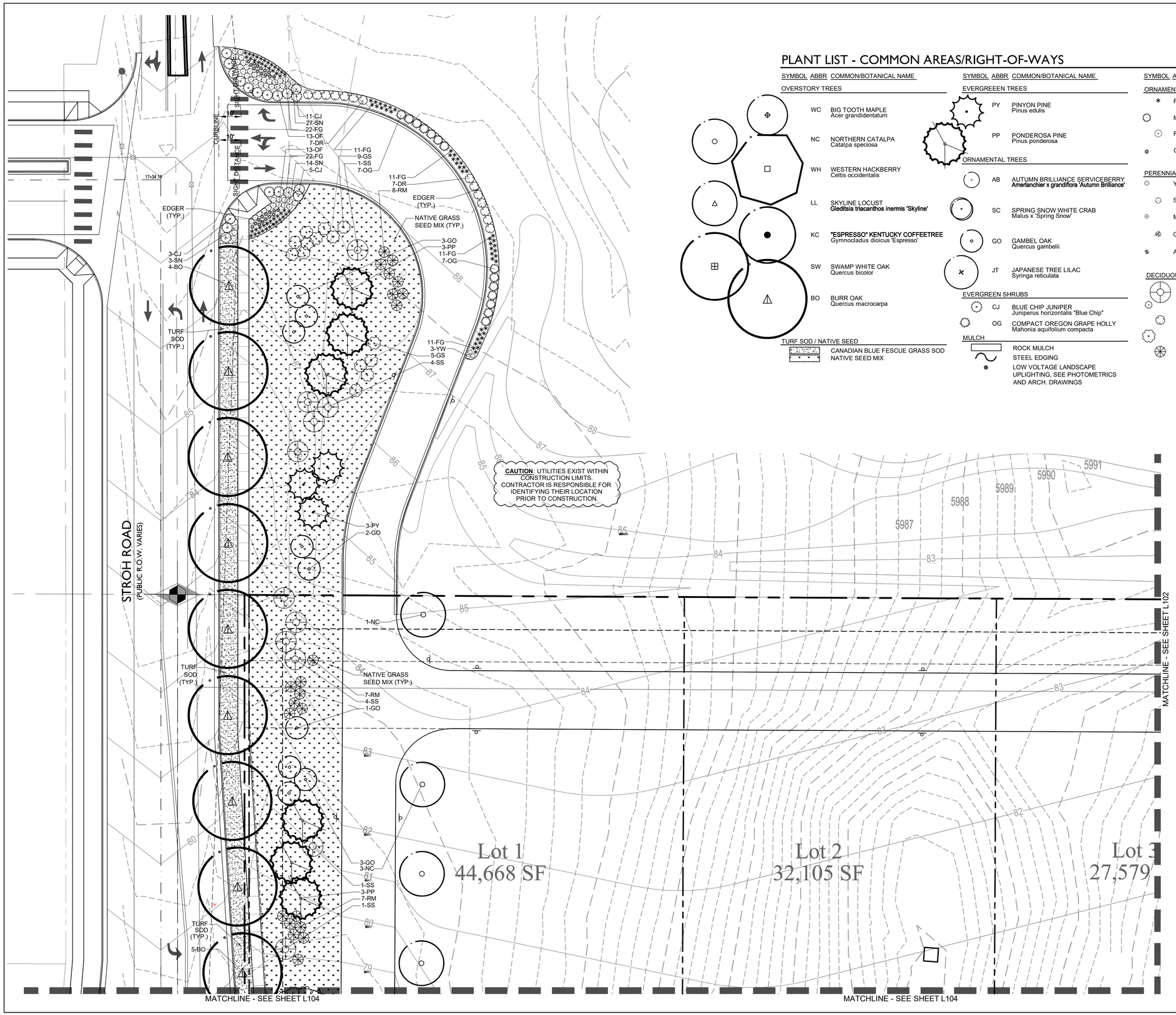
REVISIONS		
1	10/01/17	INITIAL SUBMITTAL
	DATE	DESCRIPTION

TREE PRESERVATION PLAN

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JLW
approved by:	JLW
project no.:	2015-015
date:	10/20/17

SHEET
L100



PLANT LIST - COMMON AREAS/RIGHT-OF-WAYS

SYMBOL	ABBR	COMMON/BOTANICAL NAME
OVERSTORY TREES		
	WC	BIG TOOTH MAPLE Acer grandidentatum
	NC	NORTHERN CATALPA Catalpa speciosa
	WH	WESTERN HACKBERRY Celtis occidentalis
	LL	SKYLINE LOCUST **Gleditsia triacanthos inermis 'Skyline'**
	KC	**"ESPRESSO" KENTUCKY COFFEETREE** Gymnocladus dioicus 'Espresso'
	SW	SWAMP WHITE OAK Quercus bicolor
	BO	BURR OAK Quercus macrocarpa
TURF SOD / NATIVE SEED		
		CANADIAN BLUE FESCUE GRASS SOD NATIVE SEED MIX
EVERGREEEN TREES		
	PY	PINYON PINE Pinus edulis
	PP	PONDEROSA PINE Pinus ponderosa
ORNAMENTAL TREES		
	AB	AUTUMN BRILLIANCE SERVICEBERRY **Amerlanchier x grandiflora 'Autumn Brilliance'**
	SC	SPRING SNOW WHITE CRAB Malus x 'Spring Snow'
	GO	GAMBEL OAK Quercus gambelii
	JT	JAPANESE TREE LILAC Syringa reticulata
EVERGREEN SHRUBS		
	CJ	BLUE CHIP JUNIPER Juniperus horizontalis "Blue Chip"
	OG	COMPACT OREGON GRAPE HOLLY Mahonia aquifolium compacta
MULCH		
		ROCK MULCH
		STEEL EDGING
		LOW VOLTAGE LANDSCAPE UPLIGHTING, SEE PHOTOMETRICS AND ARCH. DRAWINGS
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	FG	FEATHER REED GRASS **Calamagrostis acutiflora 'Karl Foerster'**
	MG	MAIDEN GRASS Miscanthus sinensis
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	YW	PINK YARROW Aquilegia chrysantha 'Paprika'
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	AJ	AUTUMN JOY SEDUM Sedum spectabile 'Autumn Joy'
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GRAPHIC SCALE

(IN FEET)
1 inch = 20ft.

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Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

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JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/20/17	INITIAL SUBMITTAL

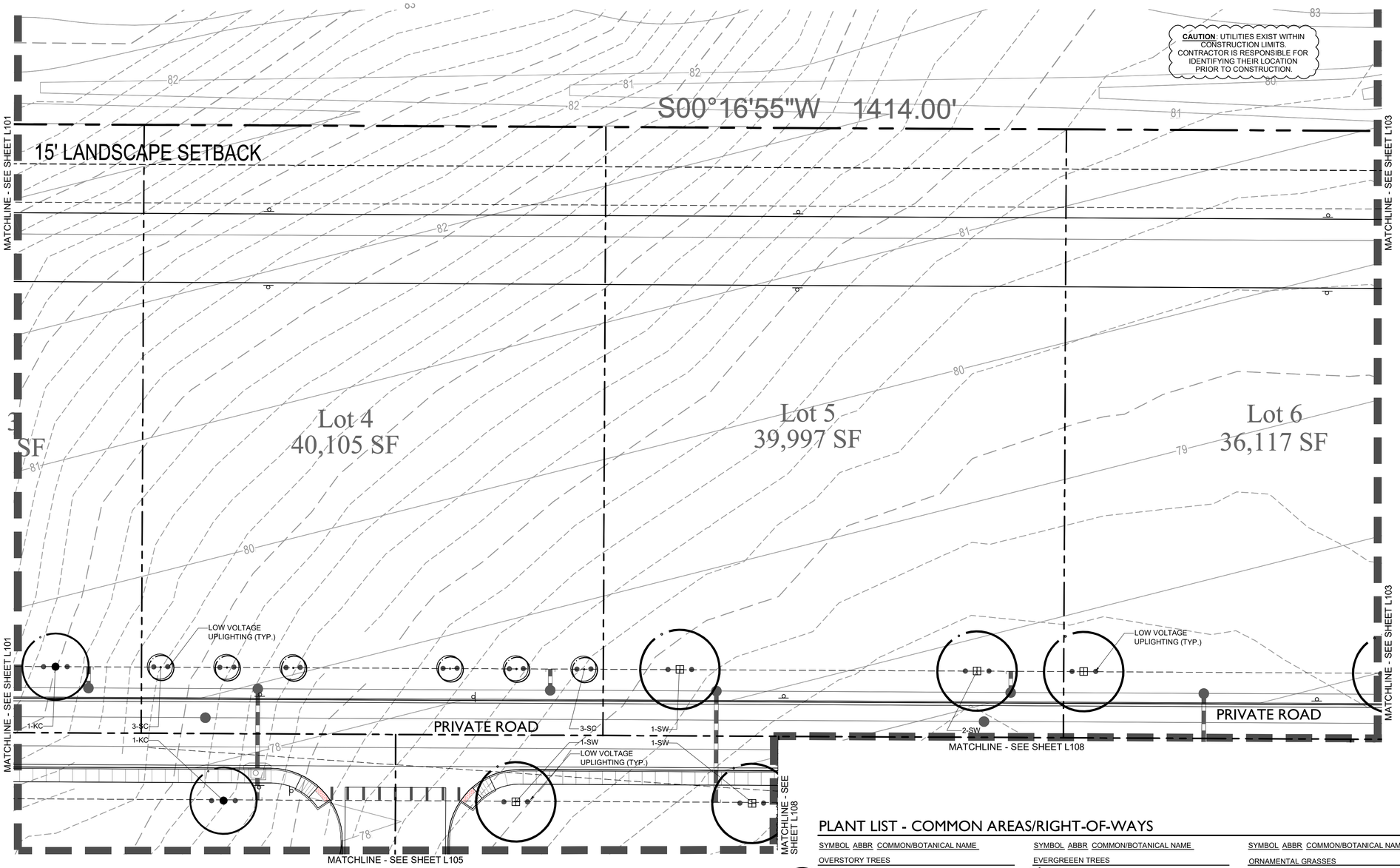
REVISIONS

LANDSCAPE PLAN - COMMON AREAS / R.O.W.

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JLW
approved by:	JLW
project no.:	2015-015
date:	10/20/17

SHEET
L101



PLANT LIST - COMMON AREAS/RIGHT-OF-WAYS

SYMBOL	ABBR	COMMON/BOTANICAL NAME
OVERSTORY TREES		
	WC	BIG TOOTH MAPLE Acer grandidentatum
	NC	NORTHERN CATALPA Catalpa speciosa
	WH	WESTERN HACKBERRY Celtis occidentalis
	LL	SKYLINE LOCUST Gleditsia triacanthos inermis 'Skyline'
	KC	"ESPRESSO" KENTUCKY COFFEETREE Gymnocladus dioicus 'Espresso'
	SW	SWAMP WHITE OAK Quercus bicolor
	BO	BURR OAK Quercus macrocarpa
TURF SOD / NATIVE SEED		
		CANADIAN BLUE FESCUE GRASS SOD NATIVE SEED MIX
EVERGREEN TREES		
	PY	PINYON PINE Pinus edulis
	PP	PONDEROSA PINE Pinus ponderosa
ORNAMENTAL TREES		
	AB	AUTUMN BRILLIANCE SERVICEBERRY Amerlanchier x grandiflora 'Autumn Brilliance'
	SC	SPRING SNOW WHITE CRAB Malus x 'Spring Snow'
	GO	GAMBEL OAK Quercus gambelii
	JT	JAPANESE TREE LILAC Syringa reticulata
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	CJ	BLUE CHIP JUNIPER Juniperus horizontalis "Blue Chip"
	OG	COMPACT OREGON GRAPE HOLLY Mahonia aquifolium compacta
MULCH		
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SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JLW
approved by:	JLW
project no.:	2015-015
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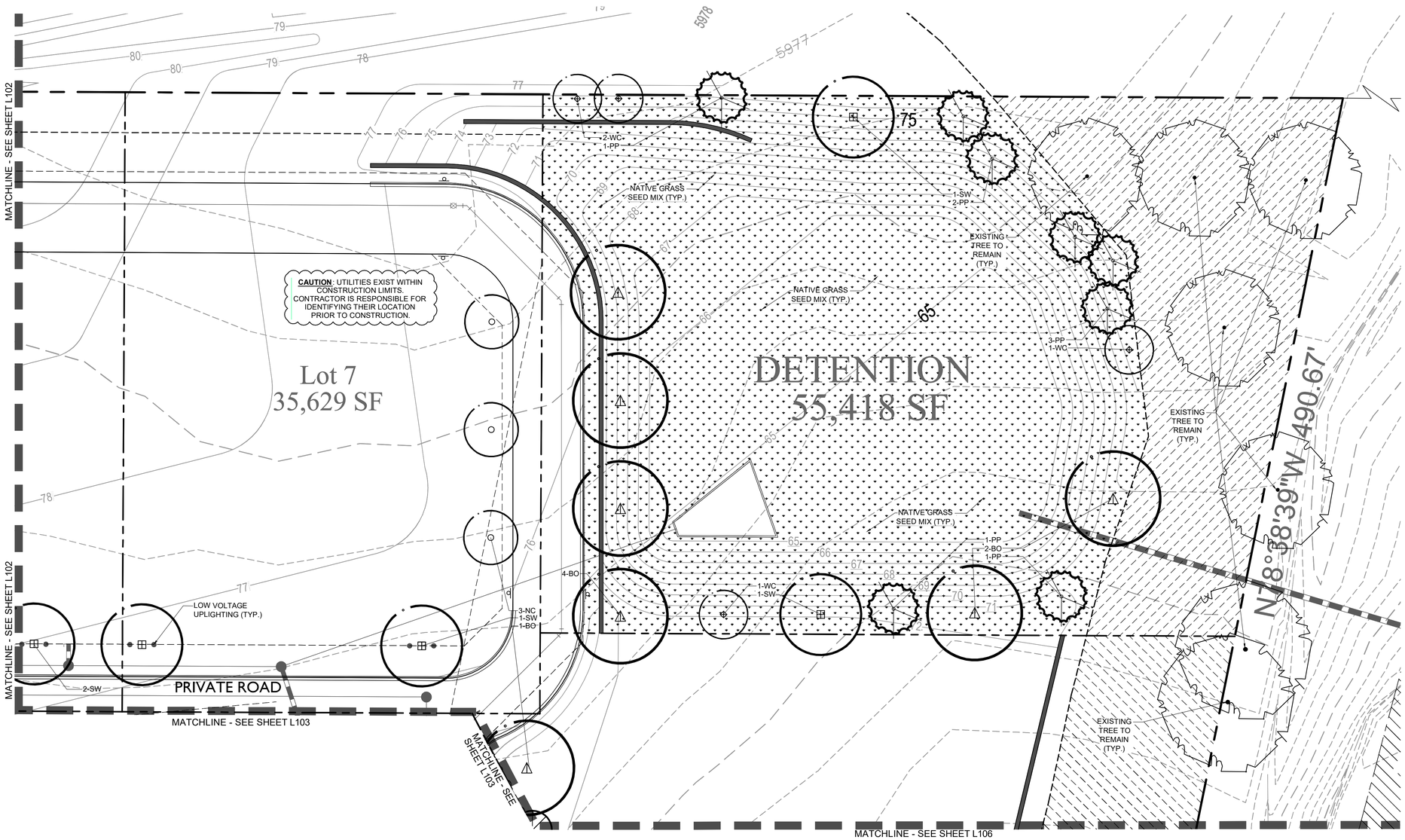

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PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JLW
approved by:	JLW
project no.:	2015-015
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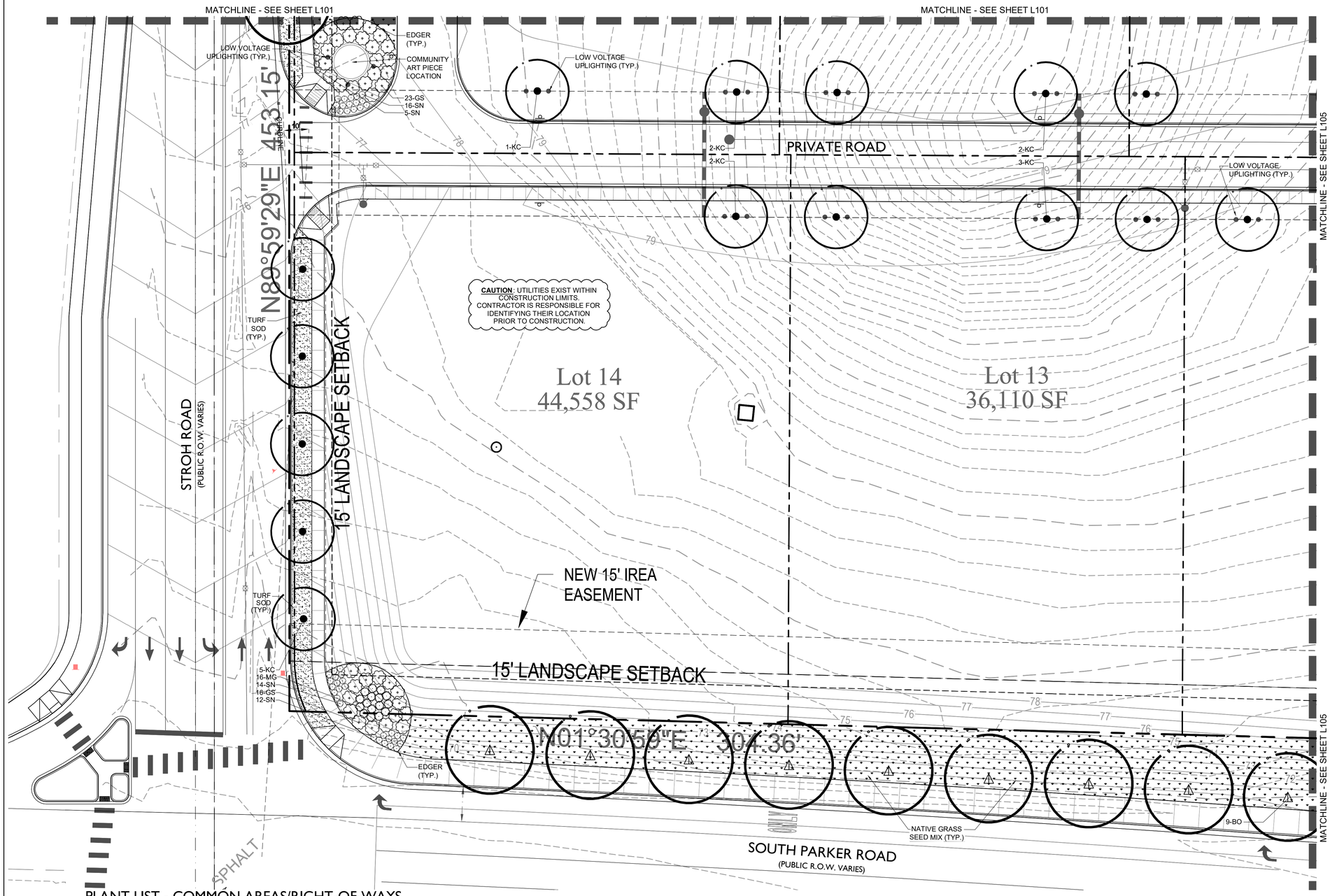
SHEET
L103



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MULCH		
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LANDSCAPE PLAN - COMMON AREAS / R.O.W.

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SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

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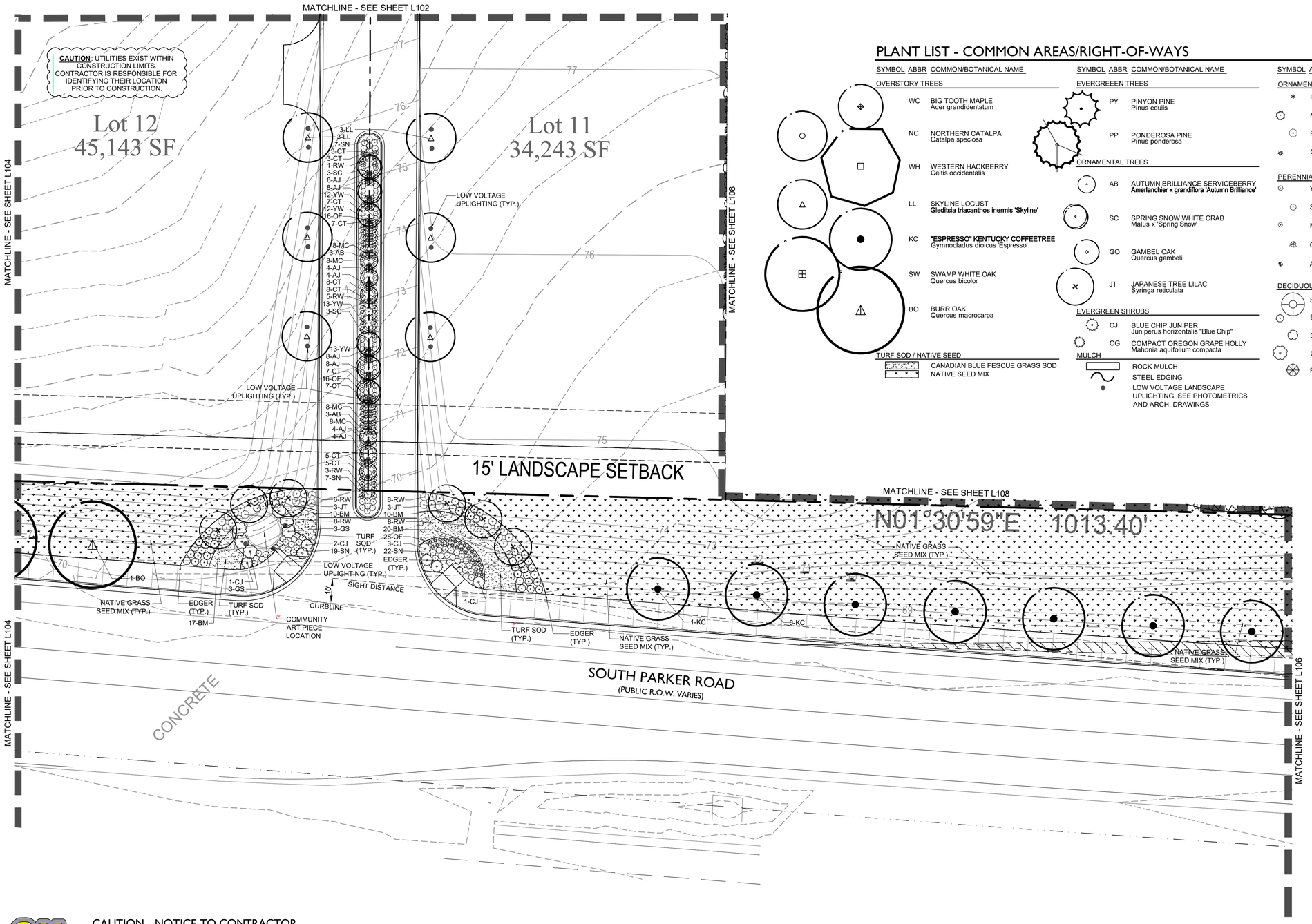

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PARKER, COLORADO

design by:	JLW
approved by:	JLW
project no.:	2015-015
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SHEET
L105

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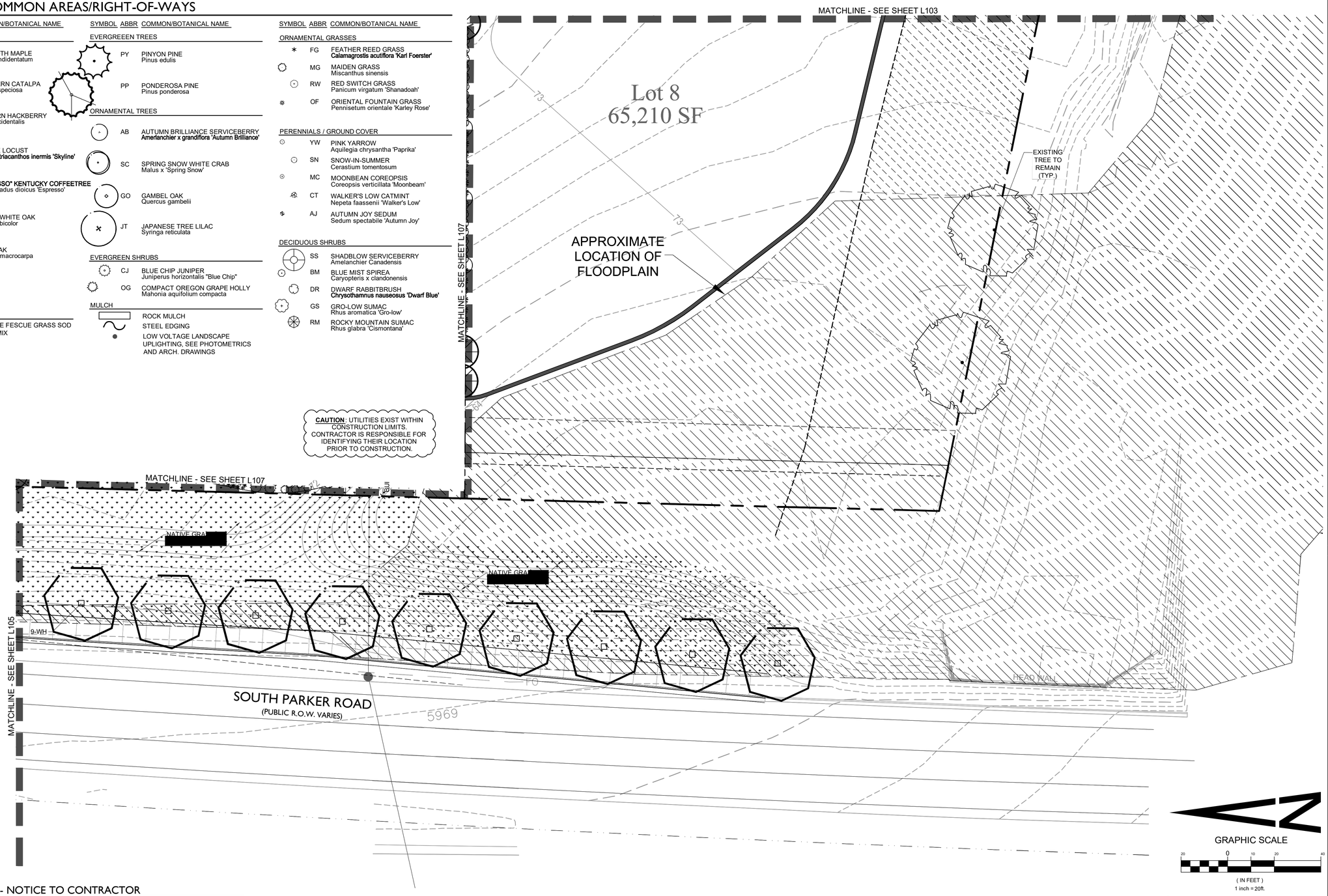
	OF	ORIENTAL FOUNTAIN GRASS Pennisetum orientale 'Karley Rose'
PERENNIALS / GROUND COVER		
	YW	PINK YARROW Aquilegia chrysantha 'Paprika'
	SN	SNOW-IN-SUMMER Cerastium tomentosum
	MC	MOONBEAN COREOPSIS Coreopsis verticillata 'Moonbeam'
	CT	WALKER'S LOW CATMINT Nepeta faassenii 'Walker's Low'
	AJ	AUTUMN JOY SEDUM Sedum spectabile 'Autumn Joy'
DECIDUOUS SHRUBS		
	SS	SHADBLOW SERVICEBERRY Amelanchier Canadensis
	BM	BLUE MIST SPIREA Caryopteris x clandonensis
	DR	DWARF RABBITBRUSH Chrysothamnus nauseosus 'Dwarf Blue'
	GS	GRO-LOW SUMAC Rhus aromatica 'Gro-low'
	RM	ROCKY MOUNTAIN SUMAC Rhus glabra 'Cismontana'

CAUTION: UTILITIES EXIST WITHIN CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THEIR LOCATION PRIOR TO CONSTRUCTION.



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2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

811 Know what's Below. Call before you dig.

Sterling Design Associates, llc
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
2009 W. Littleton Blvd. #300
Littleton, CO 80120
303.794.4727 ph
www.SterlingDesignAssociates.com

PREPARED UNDER THE DIRECT SUPERVISION OF JOSEPH L. WILSON, CID, PLA, COLORADO REGISTRATION LA-304 FOR & ON BEHALF OF STERLING DESIGN ASSOCIATES, LLC

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8088

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

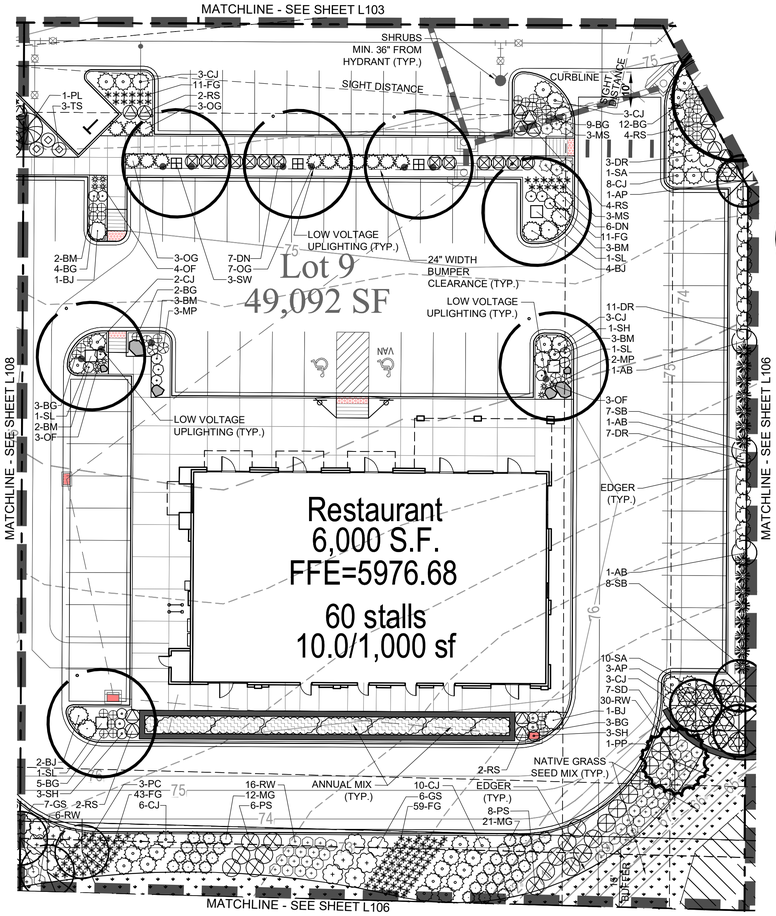
REVISIONS		
△	DATE	DESCRIPTION
	10/20/17	INITIAL SUBMITTAL

LANDSCAPE PLAN - COMMON AREAS / R.O.W.

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JLW
approved by:	JLW
project no.:	2015-015
date:	10/20/17

SHEET
L106



TOWN OF PARKER WATER TAP WORKSHEET

ParkerWater & SANITATION DISTRICT

Landscape/Irrigation Worksheet

Project Name: Parker and Stroh Site Lot 9

Landscape/Irrigation Tap address (physical location of tap) SE Corner of S. Parker and Stroh Road

Landscape Area	High Water **TURF** (6,000sf = 1 SFE)	Low Water **Native Grass** and **Spray Shrubs & Perennials** (10,000sf = 1 SFE)	**Drip Irrigated** area (20,000sf = 1 SFE)	**Non**-Irrigated area	**Sub-Total** of (calculated) Areas	**PWSD** one SFE per 6000	**SFE Requirement** (Sub-Total Calculation **divided** by 6000 = requirement)
8,896 sf total							
Area #1	0 sf x 1 = 0	0 sf x .6 = 0	7,293 sf x .3 = 2,188	1,603 sf x 0 = 0	2,188 sf	6,000	0.4 SFE's
				1,603			

Worksheet Completed by: Joseph L. Wilson, PLA, CID
Company: Sterling Design Associates, LLC
Address: 2009 W. Littleton Blvd. #300, Littleton, CO 80120
Phone #: 303-794-4727 ext 207

Owner/Developer: Dan Yacovetta
Attn: - - - -
Billing Address: - - - -
Phone #: - - - -

ET Controller (with Rain Sensor)

Manufacturer	HUNTER I-CORE W/ SOLAR-SYNC
Model number	IC-4200-M/SOLAR-SYNC-SEN

Tap Size Requirements:
0 - 1 SFE's requires a 3/4-inch tap
1.1 - 2.0 SFE's requires a 1-inch tap
2.1 - 4.0 SFE's requires a 1 1/2-inch tap
4.1 - 7.0 SFE's requires a 2-inch tap
7.1 - 16.0 SFE's requires a 3-inch tap

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PLANT LIST - LOT 9

SYMBOL	QTY	ABBR	COMMON/BOTANICAL NAME	SIZE	HT. X SPD.	HYDROZONE	REMARKS
OVERSTORY TREES							
	4	SL	SHADEMASTER LOCUST Gleditsia triacanthos inermis 'Shademaster'	2.0" CAL. B&B	50' X 35'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	3	SW	SWAMP WHITE OAK Quercus bicolor	2.0" CAL. B&B	50' X 40'	LOW / MEDIUM	FULL CROWN, STAKED, SPECIMEN QUALITY
ORNAMENTAL TREES							
	4	AB	AUTUMN BRILLIANCE SERVICEBERRY Amerlanchier x grandiflora 'Autumn Brilliance'	1.5" CAL. B&B	18' X 10'	LOW / MEDIUM	FULL CROWN, STAKED, SPECIMEN QUALITY
	3	PC	PRAIRIEFIRE PINK CRAB Malus 'Prairiefire'	1.5" CAL. B&B	20' X 20'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
EVERGREEN TREES							
	4	AP	AUSTRIAN PINE Pinus nigra	6' HT. B&B	50' X 25'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	1	PP	PONDEROSA PINE Pinus ponderosa	6' HT. B&B	50' X 30'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
DECIDUOUS SHRUBS							
	13	BM	BLUE MIST SPIREA Caryopteris x clandonensis	#5 (18"-24" HT.)	3' X 3'	LOW	SPACING PER PLAN FULL FORM
	21	DR	DWARF RABBITBRUSH Chrysothamnus nauseosus 'Dwarf Blue'	#5 (18"-24" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	7	SH	SUNBURST HYPERICUM Hypericum frondosum 'Sunburst'	#5 (12"-15" HT.)	3' X 3'	LOW	SPACING PER PLAN FULL FORM
	14	RS	RUSSIAN SAGE Rhus trilobata	#5 (18"-24" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	13	DN	LITTLE DEVIL NINEBARK Physocarpus opulifolius 'Donna May'	#5 (12"-15" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	14	PS	PAWNEE BUTTES SAND CHERRY Prunus besseyi 'Pawnee Buttes'	#5 (18" HT.)	1.5' X 5'	LOW	SPACING PER PLAN FULL FORM
	7	SD	WESTERN SAND CHERRY Prunus besseyi 'Western'	#5 (18"-24" HT.)	5' X 5'	LOW	SPACING PER PLAN FULL FORM
	13	GS	GRO-LOW SUMAC Rhus aromatica 'Gro-low'	#5 (12"-15" HT.)	2' X 6'	LOW	SPACING PER PLAN FULL FORM
	3	TS	THREE LEAF SUMAC Rhus trilobata	#5 (18"-24" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	11	SA	SNOWMOUND SPIREA Spiraea nipponica 'Snowmound'	#5 (18"-24" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	1	PL	COMMON PURPLE LILAC Syringa vulgaris	#5 (18"-24" HT.)	15' X 8'	LOW	SPACING PER PLAN FULL FORM
EVERGREEN SHRUBS							
	15	SB	SPANISH GOLD BROOM Cytisus purgan 'Spanish Gold'	#5 (18"-24" SPD.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	38	CJ	BLUE CHIP JUNIPER Juniperus horizontalis 'Blue Chip'	#5 (8"-12" SPD.)	1' X 5'	LOW	SPACING PER PLAN FULL FORM
	8	BJ	BUFFALO JUNIPER Juniperus sabina 'Buffalo'	#5 (8"-12" SPD.)	1' X 5'	LOW	SPACING PER PLAN FULL FORM
	13	OG	COMPACT OREGON GRAPE HOLLY Mahonia aquifolium compacta	#5 (12"-15" HT.)	3' X 5'	LOW	SPACING PER PLAN FULL FORM
ORNAMENTAL GRASSES							
	124	FG	FEATHER REED GRASS Calamagrostis acutiflora 'Karl Foerster'	#1 (ESTABLISHED)	4.5' X 2'	LOW	SPACING PER PLAN FULL FORM
	38	BG	BLUE AVENA GRASS Helictotrichon sempervirens	#1 (ESTABLISHED)	1.75' X 2.5'	LOW	SPACING PER PLAN FULL FORM
	33	MG	MAIDEN GRASS Miscanthus sinensis	#1 (ESTABLISHED)	5' X 3'	LOW	SPACING PER PLAN FULL FORM
	52	RW	RED SWITCH GRASS Panicum virgatum 'Shanadoah'	#1 (ESTABLISHED)	3.5' X 2.5'	LOW	SPACING PER PLAN FULL FORM
	10	OF	ORIENTAL FOUNTAIN GRASS Pennisetum orientale 'Karley Rose'	#1 (ESTABLISHED)	2.5' X 2'	LOW	SPACING PER PLAN FULL FORM
PERENNIALS / GROUND COVER							
	5	MP	ROCKY MOUNTAIN PENSTEMON Penstemon strictus	#1	4' X 3'	LOW	SPACING PER PLAN FULL FORM
	6	MS	MOJAVE SAGE Salvia pachyphylla	#1	3' X 3'	LOW	SPACING PER PLAN FULL FORM

SYMBOL	QTY	ABBR	COMMON/BOTANICAL NAME	SIZE	HT. X SPD.	HYDROZONE	REMARKS
ANNUALS (PLANTER POTS AND OWNER SPECIFIED AREAS ONLY – MAY INCLUDE BUT NOT LIMITED TO)							
510 SF			SNAP DRAGONS Antirrhinum majus	#1	3' X 1'	LOW	SPACING PER PLAN FULL FORM
			COSMOS Cosmos bipinnatus	#1	3' X 1'	LOW	SPACING PER PLAN FULL FORM
			GLOBE AMARANTH Gomphrena globosa	#1	1.5' X 1.5'	LOW	SPACING PER PLAN FULL FORM
			BLACK MONDO GRASS Ophiopogon planiscapus 'Nigrescens'	#1	1' X 1'	LOW	SPACING PER PLAN FULL FORM
			PURPLE FOUNTAIN GRASS Pennisetum setaceum 'Rubrum'	#1	3' X 2'	LOW	SPACING PER PLAN FULL FORM
			CLARY SAGE Salvia sclarea	#1	3' X 2'	LOW	SPACING PER PLAN FULL FORM
			NASTURTIUM Tropaeolum majus 'Alaska'	#1	1' X 1'	LOW	SPACING PER PLAN FULL FORM
NATIVE SEED							
1,603 SF			NATIVE SEED MIX		GRASS SEED		SEE SEED NOTES
MULCH							
			COLOR/MATERIAL: -ROCK MULCH AREA: -6,783 SF TYPE: -1"-4" DIA. MULTI-COLOR ROCK MULCH WITH DOUBLE SHREDDED BARK MULCH RINGS (4" THICK). SEE LANDSCAPE NOTES.				
			COLOR/MATERIAL: -WOOD MULCH AREA: -510 SF TYPE: -4" THICK OF DOUBLE SHREDDED BARK MULCH				
			STEEL EDGING - 410 LF				
			6 GRANITE BOULDERS 24"-48" DIA. SIZE				
			LOW VOLTAGE LANDSCAPE UPLIGHTING, SEE PHOTOMETRICS AND ARCH. DRAWINGS				

LANDSCAPE DATA - LOT 9

ONSITE

LOT AREA: 49,092 SF
LANDSCAPE AREA REQUIRED (MIN 15%): 7,364 SF (15.0%)
TOTAL LANDSCAPE AREA PROPOSED: 8,896 SF (18.1%)

VEGETATION REQUIRED:

DESCRIPTION	AREA	REQUIRED	PROVIDED
TREES	15,840*	11 (1/1,500)	18
SHRUBS	15,840*	53 (5/1,500)	191

*43,704 LOT - 6,000 BLDG SF - 21,864 SF REQUIRED PARKING (PARKING STALLS & CIRCULATION AISLES WITH PARKING STALL ACCESS)

DIVERSITY:
A MINIMUM OF TWENTY-FIVE PERCENT (25%) AND A MAXIMUM OF FIFTY PERCENT (50%) SHALL BE EVERGREEN TREES:

DESCRIPTION	EVERGREEN	DECIDUOUS	PROVIDED
TREES	5	13	27%

LANDSCAPE COVERAGE:
MINIMUM LANDSCAPE COVERAGE (MIN 75%) 6,672 SF (75.0%)
LANDSCAPE AREA COVERAGE PROPOSED: 7,784 SF (87.5%)*
*INCLUDES PLANTING BED SF, EVERGREEN TREES, UTILITY EQUIPMENT, BOULDERS AND OPEN ROCK MULCH AREAS

STREETSCAPE LANDSCAPING

DESCRIPTION	AREA	REQUIRED	PROVIDED
EASTERN PRIVATE RD.	158 LF	4 TREES (1/40)	4 TREES

SITE PERIMETER LANDSCAPING

DESCRIPTION	AREA	REQUIRED	PROVIDED
NORTH EDGE	50 LF	2 TREES (1/40), 7 SHRUBS (5/40)	2 TREES, 12 SHRUBS
WEST EDGE	203 LF	5 TREES (1/40), 25 SHRUBS (5/40)	5 TREES, 49 SHRUBS
SOUTH EDGE	234 LF	6 TREES (1/40), 30 SHRUBS (5/40)	6 TREES, 48 SHRUBS

NOTE:
NO TURF GRASS IS PROPOSED WITHIN THE PROJECT LIMITS.

TOWN SIGNATURE BLOCK

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 ENGINEER 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, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER, TRANSPORTATION — DATE

LANDSCAPING ACKNOWLEDGEMENT

NO SUBSTANTIAL CHANGE FROM THE APPROVED LANDSCAPE PLAN MAY OCCUR WITHOUT PRIOR REVIEW OF THE PARKER WATER AND SANITATION DISTRICT, WHICH MAY REQUIRE ADDITIONAL IRRIGATION TAPS FOR CHANGES DUE TO MORE WATER INTENSIVE LANDSCAPING.

APPLICANT AND/OR OWNER — DATE

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20ft.

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CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
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PREPARED UNDER THE DIRECT SUPERVISION OF JOSEPH L. WILSON, CID, PLA, COLORADO REGISTRATION LA-304 FOR & ON BEHALF OF STERLING DESIGN ASSOCIATES, LLC

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6901 South Pierce Street, Suite 315
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303-232-8088

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JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/20/17	INITIAL SUBMITTAL

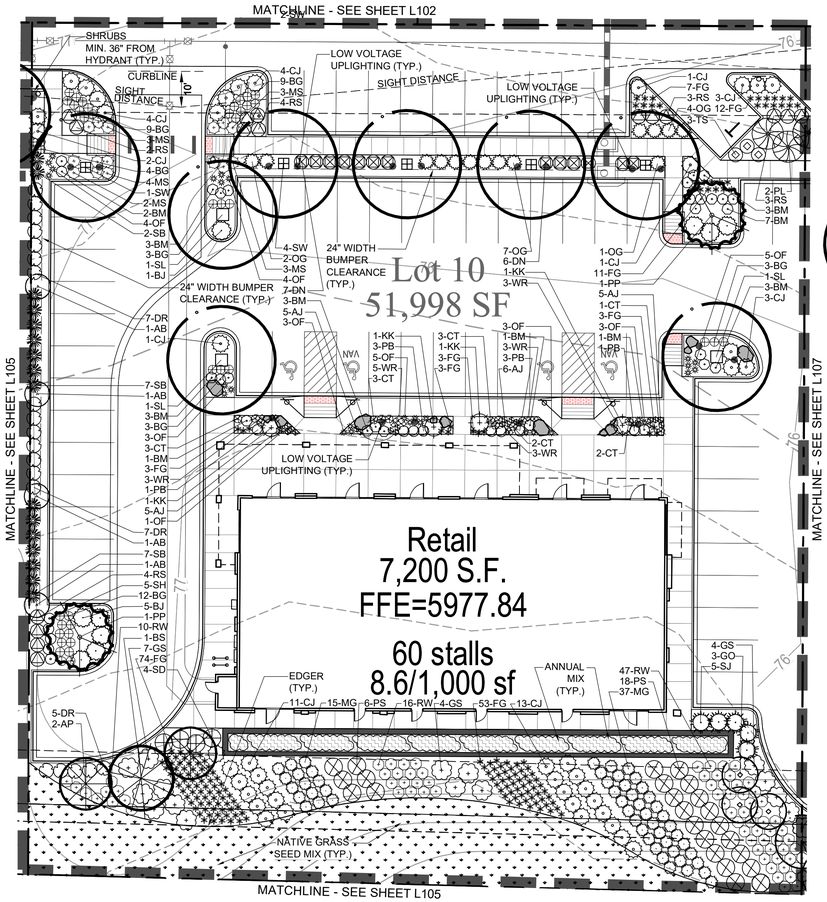
REVISIONS

LANDSCAPE PLAN - LOT 9 & LEGEND

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JLW
approved by: JLW
project no.: 2015-015
date: 10/20/17

SHEET
L107



TOWN OF PARKER WATER TAP WORKSHEET - LOT 10

ParkerWater & SANITATION DISTRICT

Landscape/Irrigation Worksheet

Project Name: Parker and Stroh Site Lot 10

Landscape/Irrigation Tap address (physical location of tap) SE Corner of S. Parker and Stroh Road

Landscape Area	High Water TURF (6,000sf = 1 SFE)	Low Water Native Grass and Spray Shrubs & Perennials (10,000sf = 1 SFE)	Drip Irrigated area (20,000sf = 1 SFE)	Non-Irrigated area	Sub-Total of (calculated) Areas	PWSD one SFE per 6000	SFE Requirement (Sub-Total Calculation divided by 6000 = requirement)
12,902 sf total							
Area #1	0 sf x 1 = 0	0 sf x .6 = 0	9,342 sf x .3 = 2,803	3,560 sf x 0 = 0	2,803 sf	6,000	0.5 SFE's

Worksheet Completed by: Joseph L. Wilson, PLA, CID
Company: Sterling Design Associates, LLC
Address: 2009 W. Littleton Blvd. #300, Littleton, CO 80120
Phone #: 303-794-4727 ext 207

Owner/Developer: Dan Yacovetta
Attn: - - - -
Billing Address: - - - -
Phone #: - - - -

ET Controller (with Rain Sensor)

Manufacturer	HUNTER I-CORE W/ SOLAR-SYNC
Model number	IC-4200-M/SOLAR-SYNC-SEN

Tap Size Requirements:
0 - 1 SFE's requires a 3/4-inch tap
1.1 - 2.0 SFE's requires a 1-inch tap
2.1 - 4.0 SFE's requires a 1 1/2-inch tap
4.1 - 7.0 SFE's requires a 2-inch tap
7.1 - 16.0 SFE's requires a 3-inch tap

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PLANT LIST - LOT 10

SYMBOL	QTY	ABBR	COMMON/BOTANICAL NAME	SIZE	HT. X SPD.	HYDROZONE	REMARKS
OVERSTORY TREES							
	3	SL	SHADEMASTER LOCUST Gleditsia triacanthos inermis 'Shademaster'	2.0" CAL. B&B	50' X 35'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	5	SW	SWAMP WHITE OAK Quercus bicolor	2.0" CAL. B&B	50' X 40'	LOW / MEDIUM	FULL CROWN, STAKED, SPECIMEN QUALITY
ORNAMENTAL TREES							
	4	AB	AUTUMN BRILLIANCE SERVICEBERRY Amerlanchier x grandiflora 'Autumn Brilliance'	1.5" CAL. B&B	18' X 10'	LOW / MEDIUM	FULL CROWN, STAKED, SPECIMEN QUALITY
	3	GO	GAMBEL OAK Quercus gambelii	1.5" CAL. B&B	20' X 15'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
EVERGREEEN TREES							
	1	BS	COLORADO BLUE SPRUCE Picea pungens var. glauca	6' HT. B&B	60' X 30'	LOW / MEDIUM	FULL CROWN, STAKED, SPECIMEN QUALITY
	2	AP	AUSTRIAN PINE Pinus nigra	6' HT. B&B	50' X 25'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	2	PP	PONDEROSA PINE Pinus ponderosa	6' HT. B&B	50' X 30'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
DECIDUOUS SHRUBS							
	8	PB	CRIMSON PYGMY BARBERRY Berberis thunbergii 'Atropurpurea Nana'	#5 (12"-15" HT.)	2' X 3'	LOW / MEDIUM	SPACING PER PLAN FULL FORM
	27	BM	BLUE MIST SPIREA Caryopteris x clandonensis	#5 (18"-24" HT.)	3' X 3'	LOW	SPACING PER PLAN FULL FORM
	19	DR	DWARF RABBITBRUSH Chrysothamnus nauseosus 'Dwarf Blue'	#5 (18"-24" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	5	SH	SUNBURST HYPERICUM Hypericum frondosum 'Sunburst'	#5 (12"-15" HT.)	3' X 3'	LOW	SPACING PER PLAN FULL FORM
	16	RS	RUSSIAN SAGE Rhus trilobata	#5 (18"-24" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	13	DN	LITTLE DEVIL NINEBARK Physocarpus opulifolius 'Donna May'	#5 (12"-15" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	24	PS	PAWNEE BUTTES SAND CHERRY Prunus besseyi 'Pawnee Buttes'	#5 (18" HT.)	1.5' X 5'	LOW	SPACING PER PLAN FULL FORM
	4	SD	WESTERN SAND CHERRY Prunus besseyi 'Western'	#5 (18"-24" HT.)	5' X 5'	LOW	SPACING PER PLAN FULL FORM
	15	GS	GRO-LOW SUMAC Rhus aromatica 'Gro-low'	#5 (12"-15" HT.)	2' X 6'	LOW	SPACING PER PLAN FULL FORM
	3	TS	THREE LEAF SUMAC Rhus trilobata	#5 (18"-24" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	2	PL	COMMON PURPLE LILAC Syringa vulgaris	#5 (18"-24" HT.)	15' X 8'	LOW	SPACING PER PLAN FULL FORM
EVERGREEN SHRUBS							
	4	KK	KINNIKINNICK Arctostaphylos uva-ursi	#5 (12"-15" HT.)	1' X 5'	LOW	SPACING PER PLAN FULL FORM
	16	SB	SPANISH GOLD BROOM Cytisus purgan 'Spanish Gold'	#5 (18"-24" SPD.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	43	CJ	BLUE CHIP JUNIPER Juniperus horizontalis "Blue Chip"	#5 (8"-12" SPD.)	1' X 5'	LOW	SPACING PER PLAN FULL FORM
	5	SJ	SEA GREEN JUNIPER Juniperus x media	#5 (18"-24" HT.)	8' X 5'	LOW	SPACING PER PLAN FULL FORM
	9	BJ	BUFFALO JUNIPER Juniperus sabina 'Buffalo'	#5 (8"-12" SPD.)	1' X 5'	LOW	SPACING PER PLAN FULL FORM
	14	OG	COMPACT OREGON GRAPE HOLLY Mahonia aquifolium compacta	#5 (12"-15" HT.)	3' X 5'	LOW	SPACING PER PLAN FULL FORM
ORNAMENTAL GRASSES							
	169	FG	FEATHER REED GRASS Calamagrostis acutiflora 'Karl Foerster'	#1 (ESTABLISHED)	4.5' X 2'	LOW	SPACING PER PLAN FULL FORM
	43	BG	BLUE AVENA GRASS Helictotrichon sempervirens	#1 (ESTABLISHED)	1.75' X 2.5'	LOW	SPACING PER PLAN FULL FORM
	52	MG	MAIDEN GRASS Miscanthus sinensis	#1 (ESTABLISHED)	5' X 3'	LOW	SPACING PER PLAN FULL FORM
	73	RW	RED SWITCH GRASS Panicum virgatum 'Shanadoah'	#1 (ESTABLISHED)	3.5' X 2.5'	LOW	SPACING PER PLAN FULL FORM
	31	OF	ORIENTAL FOUNTAIN GRASS Pennisetum orientale 'Karley Rose'	#1 (ESTABLISHED)	2.5' X 2'	LOW	SPACING PER PLAN FULL FORM
PERENNIALS / GROUND COVER							
	17	WR	WHITE CONEFLOWER Echinacea purpurea `Alba`	#1	2.5' X 1.5'	LOW	SPACING PER PLAN FULL FORM
	14	CT	WALKER'S LOW CATMINT Nepeta faassenii 'Walker's Low'	#1	2' X 2'	LOW	SPACING PER PLAN FULL FORM
	15	MS	MOJAVE SAGE Salvia pachyphylla	#1	3' X 3'	LOW	SPACING PER PLAN FULL FORM
	20	AJ	AUTUMN JOY SEDUM Sedum spectabile 'Autumn Joy'	#1	2' X 1'	LOW	SPACING PER PLAN FULL FORM

SYMBOL	QTY	ABBR	COMMON/BOTANICAL NAME	SIZE	HT. X SPD.	HYDROZONE	REMARKS
ANNUALS (PLANTER POTS AND OWNER SPECIFIED AREAS ONLY – MAY INCLUDE BUT NOT LIMITED TO)							
	699 SF		SNAP DRAGONS Antirrhinum majus	#1	3' X 1'	LOW	SPACING PER PLAN FULL FORM
			COSMOS Cosmos bipinnatus	#1	3' X 1'	LOW	SPACING PER PLAN FULL FORM
			GLOBE AMARANTH Gomphrena globosa	#1	1.5' X 1.5'	LOW	SPACING PER PLAN FULL FORM
			BLACK MONDO GRASS Ophiopogon planiscapus 'Nigrescens'	#1	1' X 1'	LOW	SPACING PER PLAN FULL FORM
			PURPLE FOUNTAIN GRASS Pennisetum setaceum 'Rubrum'	#1	3' X 2'	LOW	SPACING PER PLAN FULL FORM
			CLARY SAGE Salvia sclarea	#1	3' X 2'	LOW	SPACING PER PLAN FULL FORM
			NASTURTIUM Tropaeolum majus 'Alaska'	#1	1' X 1'	LOW	SPACING PER PLAN FULL FORM
NATIVE SEED							
	3,560 SF		NATIVE SEED MIX		GRASS SEED		SEE SEED NOTES

MULCH

COLOR/MATERIAL: -ROCK MULCH
AREA: -8,643 SF
TYPE: -1"-4" DIA. MULTI-COLOR ROCK MULCH WITH DOUBLE SHREDDED BARK MULCH RINGS (4" THICK). SEE LANDSCAPE NOTES.

COLOR/MATERIAL: -WOOD MULCH
AREA: -699 SF
TYPE: -4" THICK OF DOUBLE SHREDDED BARK MULCH

STEEL EDGING - 375 LF

12 GRANITE BOULDERS 24"-48" DIA. SIZE

LOW VOLTAGE LANDSCAPE UPLIGHTING, SEE PHOTOMETRICS AND ARCH. DRAWINGS

LANDSCAPE DATA - LOTS 10

ONSITE

LOT AREA: 51,999 SF
LANDSCAPE AREA REQUIRED (MIN 15%): 7,800 SF (15.0%)
TOTAL LANDSCAPE AREA PROPOSED: 12,902 SF (24.8%)

VEGETATION REQUIRED:

DESCRIPTION	AREA	REQUIRED	PROVIDED
TREES	22,394*	15 (1/1,500)	20
SHRUBS	22,394*	75 (5/1,500)	224

*51,999 LOT - 7,200 BLDG SF - 22,405 SF REQUIRED PARKING (PARKING STALLS & CIRCULATION AISLES WITH PARKING STALL ACCESS)

DIVERSITY:
A MINIMUM OF TWENTY-FIVE PERCENT (25%) AND A MAXIMUM OF FIFTY PERCENT (50%) SHALL BE EVERGREEN TREES:

DESCRIPTION	EVERGREEN	DECIDUOUS	PROVIDED
TREES	5	15	25%

LANDSCAPE COVERAGE:
MINIMUM LANDSCAPE COVERAGE (MIN 75%) 9,676 SF (75.0%)
LANDSCAPE AREA COVERAGE PROPOSED: 11,186 SF (86.7%)*
*INCLUDES PLANTING BED SF, EVERGREEN TREES, UTILITY EQUIPMENT, BOULDERS AND OPEN ROCK MULCH AREAS

STREETSCAPE LANDSCAPING

DESCRIPTION	AREA	REQUIRED	PROVIDED
EASTERN PRIVATE RD.	190 LF	5 TREES (1/40)	5 TREES

SITE PERIMETER LANDSCAPING

DESCRIPTION	AREA	REQUIRED	PROVIDED
SOUTH EDGE	50 LF	2 TREES (1/40), 7 SHRUBS (5/40)	2 TREES, 15 SHRUBS
WEST EDGE	216 LF	6 TREES (1/40), 27 SHRUBS (5/40)	6 TREES, 76 SHRUBS
NORTH EDGE	233 LF	6 TREES (1/40), 29 SHRUBS (5/40)	5 TREES, 39 SHRUBS

NOTE:
NO TURF GRASS IS PROPOSED WITHIN THE PROJECT LIMITS.

TOWN SIGNATURE BLOCK

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 ENGINEER CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

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TOWN OF PARKER, PUBLIC WORKS DIRECTOR — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER — DATE

TOWN OF PARKER, PUBLIC WORKS MANAGER, TRANSPORTATION — DATE

LANDSCAPING ACKNOWLEDGEMENT

NO SUBSTANTIAL CHANGE FROM THE APPROVED LANDSCAPE PLAN MAY OCCUR WITHOUT PRIOR REVIEW OF THE PARKER WATER AND SANITATION DISTRICT, WHICH MAY REQUIRE ADDITIONAL IRRIGATION TAPS FOR CHANGES DUE TO MORE WATER INTENSIVE LANDSCAPING.

APPLICANT AND/OR OWNER — DATE

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20ft.

Sterling Design Associates, llc
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
2009 W. Littleton Blvd. #300
Littleton, CO 80120
303.794.4727 ph
www.SterlingDesignAssociates.com

PREPARED UNDER THE DIRECT SUPERVISION OF JOSEPH L. WILSON, CID, PLA, COLORADO REGISTRATION LA-304 FOR & ON BEHALF OF STERLING DESIGN ASSOCIATES, LLC

Perception Design Group, Inc.
Consulting Civil Engineers
6901 South Pierce Street, Suite 315
Littleton, Colorado 80128
303-232-8688

PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

REVISIONS

DATE	DESCRIPTION
10/20/17	INITIAL SUBMITTAL

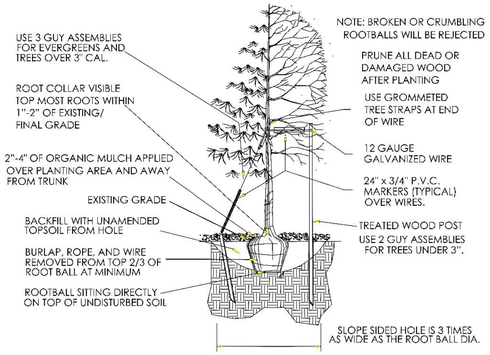
LANDSCAPE PLAN - LOT 10 & LEGEND

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JLW
approved by: JLW
project no.: 2015-015
date: 10/20/17

SHEET
L107

TOWN OF PARKER PLANTING STANDARDS

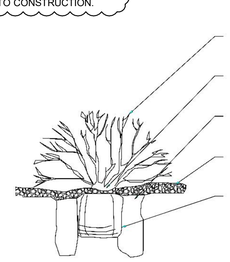


- Excavate planting holes with sloping sides. Make excavations at least three times as wide as the root ball diameter and no deeper than the distance from the top most roots in the root ball to the bottom of the root ball to allow for settling. Do not disturb soil at bottom of planting holes, but do score the sides of the planting hole. The planting area shall be loosened and aerated at least three times the diameter of the root ball. Backfill shall consist of existing on site topsoil no amendments shall be used unless otherwise specified.
- Trees shall be planted with the root collar/flare visible above grade AND two or more structural roots located within the top 1" to 2" of the root ball/finished grade measured 3" to 4" from trunk. This includes trees that are set on slopes (see slope planting detail). Trees that do not have a visible root collar shall be rejected. Do not cover the root ball with soil.
- When root ball will remain intact, cut off bottom $^{1}/_{4}$ of wire basket before placing tree in hole, cut off remainder of basket AFTER tree is set in hole, remove basket completely. At a minimum, the top 2/3 of the burlap and basket shall be removed from the root ball on all trees. Remove all nylon ties, twine, rope and burlap. Remove unnecessary packing material.
- Form soil into a 3" to 5" tall watering ring (saucer) around planting area. This is not necessary in irrigated turf areas. Apply 2" to 4" depth of specified mulch over planting area and inside saucers, away from trunk.
- Staking and guying of trees is optional in most planting situations. In areas of extreme winds, or on steep slopes, staking may be required to stabilize trees. Staking and guying must be removed within 1 year of planting date.
- Tree wrap is *not* to be used on any new plantings, except in late fall planting situations, and only then after consultation with the Town Arborist.
- Resetting of improperly planted trees will only be allowed if it is determined that doing so will in no way compromise the root ball, and shall only be done with approval of the Town Arborist.

TOWN OF PARKER PLANTING STANDARDS

TOWN OF PARKER PLANTING DETAIL – SHRUBS

CAUTION: UTILITIES EXIST WITHIN CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THEIR LOCATION PRIOR TO CONSTRUCTION.



NOTES:
- BACKFILL AND WATER-IN THOROUGHLY
- BROKEN ROOTBALLS WILL BE REJECTED

LANDSCAPING ACKNOWLEDGEMENT

NO SUBSTANTIAL CHANGE FROM THE APPROVED LANDSCAPE PLAN MAY OCCUR WITHOUT PRIOR REVIEW OF THE PARKER WATER AND SANITATION DISTRICT, WHICH MAY REQUIRE ADDITIONAL IRRIGATION TAPS FOR CHANGES DUE TO MORE WATER INTENSIVE LANDSCAPING.

APPLICANT AND/OR OWNER _____ DATE _____

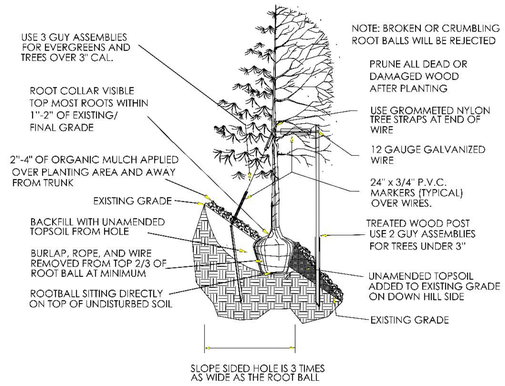
CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

Know what's **Below.** Call before you dig.

TOWN OF PARKER PLANTING STANDARDS

TOWN OF PARKER TREE PLANTING DETAIL - SLOPES



TOWN OF PARKER WATER TAP WORKSHEET - COMMON AREAS/R.O.W.

ParkerWater & SANITATION DISTRICT

Landscape/Irrigation Worksheet

Project Name: Parker and Stroh Site Overall

Landscape/Irrigation Tap address (physical location of tap) SE Corner of S. Parker and Stroh Road

Landscape Area	High Water **TURF** (6,000sf = 1 SFE)	Low Water **Native Grass** and **Spray Shrubs & Perennials** (10,000sf = 1 SFE)	**Drip Irrigated** area (20,000sf = 1 SFE)	**Non**-Irrigated area	**Sub-Total** of (calculated) Areas	**PWSD** one SFE per 6000	**SFE Requirement** (Sub-Total Calculation **divided** by 6000 = requirement)
110,103 sf total				Temp Irrigation			
Area #1	5,217 sf x 1 = 5,217	0 sf x .6 = 0	9,736 sf x .3 = 2,921 Drip for Trees/Shrubs	98,150 sf x 0 = 0	7,238 sf	6,000	1.5 SFE's

Worksheet Completed by: Joseph L. Wilson, PLA, CID
Company: Sterling Design Associates, LLC
Address: 2009 W. Littleton Blvd. #300, Littleton, CO 80120
Phone #: 303-794-4727 ext 207

Owner/Developer: Dan Yacovetta
Attn: - - - -
Billing Address: - - - -
Phone #: - - - -

ET Controller (with Rain Sensor)

Manufacturer	HUNTER I-CORE W/ SOLAR-SYNC
Model number	IC-4200-M/SOLAR-SYNC-SEN

Tap Size Requirements:
0 - 1 SFE's requires a 3/4-inch tap
1.1 - 2.0 SFE's requires a 1-inch tap
2.1 - 4.0 SFE's requires a 1 1/2-inch tap
4.1 - 7.0 SFE's requires a 2-inch tap
7.1 - 16.0 SFE's requires a 3-inch tap

LANDSCAPE DATA - COMMON AREAS/RIGHT-OF-WAYS

ONSITE

VEGETATION REQUIRED:

DESCRIPTION	AREA	REQUIRED	PROVIDED
TREES	63,737*	43 (1/1,500)	50
SHRUBS	63,737*	213 (5/1,500)	203

*NOTE: AREA INCLUDES NW ENTRY COMMON AREA, MEDIANS, DETENTION AREA, AND COMMON LANDSCAPE AREA INSIDE PROPERTY LINES.

DIVERSITY:
A MINIMUM OF TWENTY-FIVE PERCENT (25%) AND A MAXIMUM OF FIFTY PERCENT (50%) SHALL BE EVERGREEN TREES:

DESCRIPTION	EVERGREEN	DECIDUOUS	PROVIDED
TREES	17	26	34%

LANDSCAPE COVERAGE:
MINIMUM LANDSCAPE COVERAGE (MIN 75%) 47,803 SF (75.0%)
LANDSCAPE AREA COVERAGE PROPOSED: 53,794 SF (84.4%)*
*INCLUDES PLANTING BED SF, EVERGREEN TREES, UTILITY EQUIPMENT, AND OPEN ROCK MULCH AREAS

STREETSCAPE LANDSCAPING

DESCRIPTION	AREA	REQUIRED	PROVIDED
S. PARKER ROAD	1,210 LF	31 TREES (1/40)	32 TREES
STROH ROAD	565 LF	14 TREES (1/40)	14 TREES
DETENTION N. PRIVATE RD.	156 LF	4 TREES (1/40)	4 TREES

SITE PERIMETER LANDSCAPING

DESCRIPTION	AREA	REQUIRED	PROVIDED
DETENTION EASTERN EDGE	167 LF	5 TREES (1/40)	5 TREES
DETENTION SOUTH EDGE	222 LF	6 TREES (1/40)	6 TREES
DETENTION WEST EDGE	186 LF	5 TREES (1/40)	5 TREES

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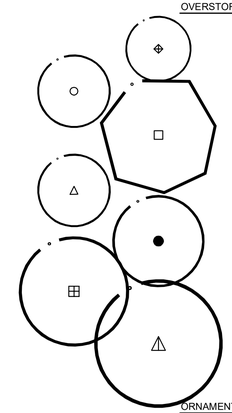
TOWN OF PARKER, PUBLIC WORKS DIRECTOR _____ DATE _____

TOWN OF PARKER, PUBLIC WORKS MANAGER - STORMWATER _____ DATE _____

TOWN OF PARKER, PUBLIC WORKS MANAGER, TRANSPORTATION _____ DATE _____

PLANT LIST - COMMON AREAS/RIGHT-OF-WAYS



SYMBOL	QTY	ABBR	COMMON/BOTANICAL NAME	SIZE	HT. X SPD.	HYDROZONE	REMARKS
OVERSTORY TREES							
	4	WC	BIG TOOTH MAPLE Acer grandidentatum	2.0" CAL. B&B	20' X 20'	LOW / MEDIUM	FULL CROWN, STAKED, SPECIMEN QUALITY
	7	NC	NORTHERN CATALPA Catalpa speciosa	2.0" CAL. B&B	50' X 30'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	9	WH	WESTERN HACKBERRY Celtis occidentalis	2.0" CAL. B&B	60' X 40'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	6	LL	SKYLINE LOCUST Gleditsia triacanthos inermis 'Skyline'	2.0" CAL. B&B	45' X 30'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	24	KC	"ESPRESSO" KENTUCKY COFFEETREE Gymnocladus dioicus 'Espresso'	2.0" CAL. B&B	50' X 35'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	10	SW	SWAMP WHITE OAK Quercus bicolor	2.0" CAL. B&B	50' X 40'	LOW / MEDIUM	FULL CROWN, STAKED, SPECIMEN QUALITY
	26	BO	BURR OAK Quercus macrocarpa	2.0" CAL. B&B	70' X 50'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
ORNAMENTAL TREES							
	6	AB	AUTUMN BRILLIANCE SERVICEBERRY Amerlanchier x grandiflora 'Autumn Brilliance'	1.5" CAL. B&B	18' X 10'	LOW / MEDIUM	FULL CROWN, STAKED, SPECIMEN QUALITY
	12	SC	SPRING SNOW WHITE CRAB Malus x 'Spring Snow'	1.5" CAL. B&B	20' X 15'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	9	GO	GAMBEL OAK Quercus gambelii	1.5" CAL. B&B	20' X 15'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	6	JT	JAPANESE TREE LILAC Syringa reticulata	1.5" CAL. B&B	20' X 20'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
EVERGREEEN TREES							
	3	PY	PINYON PINE Pinus edulis	6' HT. B&B	25' X 20'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
	14	PP	PONDEROSA PINE Pinus ponderosa	6' HT. B&B	50' X 30'	LOW	FULL CROWN, STAKED, SPECIMEN QUALITY
DECIDUOUS SHRUBS							
	11	SS	SHADBLOW SERVICEBERRY Amelanchier Canadensis	#5 (18"-24" HT.)	15' X 10'	LOW / MEDIUM	SPACING PER PLAN FULL FORM
	57	BM	BLUE MIST SPIREA Caryopteris x clandonensis	#5	3' X 3'	LOW	SPACING PER PLAN FULL FORM
	14	DR	DWARF RABBITBRUSH Chrysothamnus nauseosus 'Dwarf Blue'	#5 (18"-24" HT.)	4' X 4'	LOW	SPACING PER PLAN FULL FORM
	59	GS	GRO-LOW SUMAC Rhus aromatica 'Gro-low'	#5 (12"-15" HT.)	2' X 6'	LOW	SPACING PER PLAN FULL FORM
	22	RM	ROCKY MOUNTAIN SUMAC Rhus glabra 'Cismontana'	#5 (15"-18" HT.)	6' X 5'	LOW	SPACING PER PLAN FULL FORM
EVERGREEN SHRUBS							
	26	CJ	BLUE CHIP JUNIPER Juniperus horizontalis "Blue Chip"	#5 (8"-12" SPD.)	1' X 5'	LOW	SPACING PER PLAN FULL FORM
	14	OG	COMPACT OREGON GRAPE HOLLY Mahonia aquifolium compacta	#5 (12"-15" HT.)	3' X 5'	LOW	SPACING PER PLAN FULL FORM
ORNAMENTAL GRASSES							
	88	FG	FEATHER REED GRASS Calamagrostis acutiflora 'Karl Foerster'	#1 (ESTABLISHED)	4.5' X 2'	LOW	SPACING PER PLAN FULL FORM
	16	MG	MAIDEN GRASS Miscanthus sinensis	#1 (ESTABLISHED)	5' X 3'	LOW	SPACING PER PLAN FULL FORM
	37	RW	RED SWITCH GRASS Panicum virgatum 'Shanadoah'	#1 (ESTABLISHED)	3.5' X 2.5'	LOW	SPACING PER PLAN FULL FORM
	86	OF	ORIENTAL FOUNTAIN GRASS Pennisetum orientale 'Karley Rose'	#1 (ESTABLISHED)	2.5' X 2'	LOW	SPACING PER PLAN FULL FORM
PERENNIALS / GROUND COVER							
	53	YW	PINK YARROW Aquilegia chrysantha 'Paprika'	#1	2' X 2'	LOW	SPACING PER PLAN FULL FORM
	146	SN	SNOW-IN-SUMMER Cerastium tomentosum	#1	1' X 2.5'	LOW	SPACING PER PLAN FULL FORM
	32	MC	MOONBEAN COREOPSIS Coreopsis verticillata 'Moonbeam'	#1	1.5' X 1.5'	LOW	SPACING PER PLAN FULL FORM
	60	CT	WALKER'S LOW CATMINT Nepeta faassenii 'Walker's Low'	#1	2' X 2'	LOW	SPACING PER PLAN FULL FORM
	48	AJ	AUTUMN JOY SEDUM Sedum spectabile 'Autumn Joy'	#1	2' X 1'	LOW	SPACING PER PLAN FULL FORM

TURF SOD / NATIVE SEED

5,217 SF	CANADIAN BLUE FESCUE GRASS SOD	GRASS SOD	SEE LANDSCAPE NOTES
98,150 SF	NATIVE SEED MIX	GRASS SEED	SEE SEED NOTES

MULCH

COLOR/MATERIAL: -ROCK MULCH
AREA: -6,736 SF
TYPE: -1"-4" DIA. MULTI-COLOR ROCK MULCH WITH DOUBLE SHREDDED BARK MULCH RINGS (4" THICK). SEE LANDSCAPE NOTES.

STEEL EDGING - 685 LF

LOW VOLTAGE LANDSCAPE UPLIGHTING, SEE PHOTOMETRICS AND ARCH. DRAWINGS

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DATE	DESCRIPTION
10/20/17	INITIAL SUBMITTAL

REVISIONS

LANDSCAPE DETAILS & COMMON AREAS / R.O.W. LEGEND

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JLW
approved by:	JLW
project no.:	2015-015
date:	10/20/17

SHEET
L109

STANDARD LANDSCAPE NOTES

1. COORDINATION
   - THIS LANDSCAPE ARCHITECTURAL SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, AND IRRIGATION PLANS, STANDARDS AND SPECIFICATIONS, TO FORM COMPLETE INFORMATION REGARDING THIS SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY AND UP-TO-DATE ISSUE PLAN SETS.
   - ALL LANDSCAPE AND IRRIGATION WORK SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY.
   - MINOR ADJUSTMENTS TO THE LANDSCAPE MATERIAL AND LOCATIONS MAY BE PROPOSED FOR THE GOVERNING JURISDICTION CONSIDERATION AT THE CONSTRUCTION DOCUMENT STAGE TO RESPOND TO MARKET AND FIELD CONDITIONS. HOWEVER, THERE SHALL BE NO REDUCTION IN THE NUMBER AND SIZE OF MATERIALS.
   - THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN TAKEOFFS AND QUANTITY CALCULATIONS.
   - IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE LANDSCAPE LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN SHALL TAKE PRECEDENCE AND NOTIFY THE LANDSCAPE ARCHITECT OF THESE DISCREPANCIES.

2. COMPLIANCE
   - ALL WORK SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING ANY STANDARDS, AND SPECIFICATIONS .
   - ALL LANDSCAPE CONSTRUCTION PRACTICES, WORKMANSHIP, AND ETHICS SHALL, BE IN ACCORDANCE WITH INDUSTRY STANDARDS SET FORTH IN THE CONTRACTORS HANDBOOK PUBLISHED BY THE STATE'S LANDSCAPE CONTRACTORS ASSOCIATION.

3. GUARANTEE
   - ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF THE OWNER'S ACCEPTANCE. THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY PLANTS WHICH DIE AND REPAIR/REPLACE ANY PORTIONS OF THE IRRIGATION SYSTEM AS NECESSARY IN THAT TIME.

4. COMPLETION AND MAINTENANCE
   - FINAL ACCEPTANCE: WITHIN TEN DAYS OF CONTRACTOR'S NOTICE THAT THE ENTIRE PROJECT IS COMPLETE, THE L.A. SHALL REVIEW INSTALLATION. IF FINAL ACCEPTANCE IS NOT GIVEN, THE L.A. SHALL PREPARE A PUNCH LIST OF PENDING ITEMS. THE PUNCH LIST ITEMS SHALL BE COMPLETED BY THE CONTRACTOR WITHIN TEN CALENDAR DAYS FROM DATE ISSUED. SUBSEQUENT REVIEW AND APPROVAL SHALL SIGNIFY ACCEPTANCE.
   - LANDSCAPE MAINTENANCE: ALL LANDSCAPING SHALL BE MAINTAINED FROM INSTALLATION TO FINAL ACCEPTANCE. MAINTENANCE SHALL INCLUDE WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, ROLLING, RE-GRADING, REPLANTING, DISEASE AND INSECT PROTECTION. IF SITE IS TO OPEN DURING WINTER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER AND LANDSCAPE ARCHITECT ON TIMING FOR THE INSTALLATION OF PLANT MATERIAL. THE PROPERTY OWNER OF RECORD, THE OWNER'S AGENT OR TENANT SHALL KEEP ALL LANDSCAPING IN A WELL MAINTAINED AND HEALTHY GROWING CONDITION.
   - GRADING MAINTENANCE: DURING THE LANDSCAPE MAINTENANCE PERIOD, THE LANDSCAPE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES IN ALL LANDSCAPE AREAS AT THE MINIMUM SLOPE SPECIFIED IN THE GEOTECHNICAL REPORT. LANDSCAPE AREAS WHICH SETTLE AND CREATE THE POTENTIAL FOR PONDING SHALL BE REPAIRED TO ELIMINATE PONDING POTENTIAL AND BLEND IN WITH THE SURROUNDING GRADES. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GEOTECHNICAL REPORT, THESE NOTES, THE GRADING PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AND LANDSCAPE ARCHITECT.
   - IRRIGATION MAINTENANCE : DURING THE LANDSCAPE MAINTENANCE PERIOD, ALL IRRIGATION SHALL BE MAINTAINED IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON AND TO MAXIMIZE WATER CONSERVATION. WINTER WATERING SHALL BE AT THE EXPENSE OF THE CONTRACTOR UNTIL SUCH TIME AS FINAL ACCEPTANCE IS RECEIVED.

5. SITE CONDITIONS
   - LANDSCAPE CONTRACTOR SHALL EXAMINE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE GENERAL CONTRACTOR IN WRITING OF UNSATISFACTORY CONDITIONS. DO NOT PROCEED UNTIL CONDITIONS ARE CORRECTED.
   - CONTRACTOR SHALL MAKE HIMSELF AWARE OF THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE UTILITIES AND/OR ANY INJURY TO ANY PERSON. UNDER NO CIRCUMSTANCES SHOULD THIS PLAN BE USED FOR CONSTRUCTION PURPOSES WITHOUT EXAMINING ACTUAL LOCATIONS OF UTILITIES ON SITE AND REVIEW ALL RELATED PLANS AND DOCUMENTS.
   - LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISHED GRADES AND POSITIVE DRAINAGE IN LANDSCAPE AREAS.
   - ALL CONSTRUCTION DEBRIS AND MATERIAL SHALL BE REMOVED PRIOR TO INSTALLATION OF TOPSOIL, TREES, SHRUBS, AND TURF.
   - ALL UTILITY EASEMENTS SHALL REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR MAINTENANCE EQUIPMENT.
   - THE CONTRACTOR SHALL TAKE EXTREME CARE NOT TO DAMAGE ANY EXISTING PLANTS TO REMAIN. THE CONTRACTOR SHALL REPLACE ANY SUCH PLANTS DAMAGED DURING CONSTRUCTION/MAINTENANCE PERIODS WITH THE SAME SPECIES, SIZE, AND QUANTITY AT THE CONTRACTOR'S OWN EXPENSE, AND AS ACCEPTABLE TO THE OWNER. REFER TO THE TREE PROTECTION NOTES ON THE PLANS (AS APPLICABLE).

6. DAMAGE AND CLEANING
   - CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED DUE TO THIS WORK AT NO ADDITIONAL COST TO THE OWNER.
   - CONTRACTOR SHALL CLEAN ALL AREAS DUE TO THIS WORK AND PROPERLY REMOVE ALL UNUSED MATERIALS FROM SITE.

7. RIGHT OF REJECTION
   - OWNER/LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY MATERIALS AT ANY TIME.

8. SOIL PREPARATION
   - AFTER FINISH GRADES HAVE BEEN ESTABLISHED, IT IS RECOMMENDED THAT THE CONTRACTOR SHALL HAVE SOIL SAMPLES TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY FOR THE FOLLOWING: GENERAL SOIL FERTILITY, PH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT. CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): GENERAL SOIL PREPARATION AND BACKFILL MIXES, PRE-PLANT FERTILIZER APPLICATIONS, AND ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
   - AT A MINIMUM, ALL TOPSOIL SHALL BE AMENDED WITH NITROGEN STABILIZED ORGANIC AMENDMENT OR APPROVED EQUAL AT A RATE OF 4.0 CUBIC YARDS PER THOUSAND SQUARE FEET OF LANDSCAPE AREA. AMENDMENT SHALL BE MECHANICALLY INTEGRATED INTO THE TOP 6" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED FOR ORGANIC AMENDMENTS.
   - ALL PLANT MATERIAL SHALL NOT BE PLANTED PRIOR TO INSTALLATION OF TOPSOIL

9. PLANT MATERIAL
   - ALL PLANT MATERIAL SHALL MEET OR EXCEED CURRENT AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1 AND THE COLORADO NURSERY ACT AND ACCOMPANYING RULES AND REGULATIONS.
   - TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
   - ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT SHALL BE THE SOLE JUDGE AS TO THE ACCEPTABILITY OF PLANT MATERIAL.

10. PLANTING
   - TREES AND SHRUBS SHALL BE PLANTED PER DETAILS. STAKE AND GUY TREES PER DETAILS. NO 'T-STAKES' SHALL BE USED FOR TREES.
   - TREES INSTALLATION PROCEDURE: SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 3" ABOVE FINISH GRADE. CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE, REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE ALL BURLAP FROM AROUND ROOTBALL. TREE WRAP IS NOT TO BE USED ON ANY NEW PLANTINGS, EXCEPT IN LATE FALL PLANTING SITUATIONS, AND ONLY THEN AFTER CONSULTATION WITH THE LANDSCAPE ARCHITECT. WHEN WRAPPING TREE, WRAP FROM TRUNK FLARE TO LOWEST MAJOR BRANCH. REMOVE ALL NURSERY STAKES AFTER PLANTING. FOR TREES OVER 3" CALIPER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.
   - TREE AND SHRUB BED LOCATIONS SHALL BE APPROVED PRIOR TO PLANTING.
   - BACKFILL WITH 1/3 SOIL AMENDMENT AND 2/3 SITE SOIL, THOROUGHLY MIXED.
   - A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF ALL FIRE HYDRANTS.
   - ALL TREES PLANTED ADJACENT TO PUBLIC AND/OR PEDESTRIAN WALKWAYS SHALL BE PRUNED CLEAR OF ALL BRANCHES BETWEEN GROUND AND A HEIGHT OF EIGHT (8) FEET FOR THAT PORTION OF THE PLAN LOCATED OVER THE SIDEWALK AND/OR ROAD.
   - ALL PLANT BEDS SHALL BE CONTAINED WITH EDGE AS SPECIFIED IN THE LEGEND. EDGER IS NOT REQUIRED ALONG CURBS, WALKS OR BUILDING FOUNDATIONS. WHEN STEEL EDGING IS SPECIFIED, ALL STEEL EDGING SHALL OVERLAP AT JOINTS A MINIMUM OF 6-INCHES, AND SHALL BE FASTENED WITH A MINIMUM OF 4 PINS PER EACH 10 FOOT SECTION. THE TOP OF ALL EDGING MATERIAL SHALL BE A ROLLED TOP AND 1/2 INCH ABOVE THE FINISHED GRADE OF ADJACENT LAWN OR MULCH AREAS. COLOR: GREEN.

11. MULCH
   - AFTER ALL PLANTING IS COMPLETE, THE CONTRACTOR SHALL INSTALL A MINIMUM 4" THICK LAYER OF MULCH AS SPECIFIED IN THE LEGEND. INSTALL A 4" THICK RING OF DOUBLE SHREDDED CEDAR BARK MULCH AROUND ALL PLANT MATERIAL IN ROCK MULCH BEDS WHERE LANDSCAPING IS SHOWN ON THE PLANS. WOOD MULCH RING SIZE SHALL BE THE SIZE OF THE OF SHRUB, PERENNIAL, AND ORNAMENTAL GRASS'S CONTAINER/ROOTBALL. TREE RING SIZE SHALL REFERENCE INDUSTRY STANDARDS SET FORTH IN THE CONTRACTORS HANDBOOK PUBLISHED BY THE STATE'S LANDSCAPE CONTRACTORS ASSOCIATION.
   - ALL MULCH SHALL BE HARVESTED IN A SUSTAINABLE MANNER FROM A LOCAL SOURCE.
   - INSTALL WEED BARRIER FABRIC UNDER ALL ROCK MULCH SHRUB BEDS SPECIFIED ON THE PLANS ONLY. NO LANDSCAPE FABRIC SHALL BE USED IN WOOD MULCH AREAS. NO PLASTIC WEED BARRIERS SHALL BE SPECIFIED.
   - ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED.
   - ALL PLANTING AREAS ON SLOPES OVER 4:1 SHALL RECEIVE COCONUT FIBER EROSION CONTROL NETTING FROM ROLLS OR APPROVED EQUAL. INSTALL AND STAKE PER MANUFACTURER'S SPECIFICATIONS.

12. SODDING
   - SOD SHALL BE CANADIAN BLUE FESCUE GRASS BY TURF MASTERS (970) 493-8311. SOIL PREP., INSTALL, AND WATER ACCORDING TO TURF MASTERS GUIDELINES.

13. IRRIGATION
   - THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSORY INPUT CAPABILITIES.
   - ALL NON-TURF PLANTED AREAS WILL BE DRIP IRRIGATED. SODDED/SEEDED AREAS SHALL BE IRRIGATED WITH SPRAY OR ROTOR HEADS AT 100% HEAD-TO-HEAD COVERAGE.
   - THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE PER LOCAL, STATE, AND FEDERAL CODE.
   - REFER TO THE IRRIGATION PLAN (AS APPLICABLE).

TOWN OF PARKER LANDSCAPE MAINTENANCE NOTES

1. ALL PLANTINGS SHALL BE MAINTAINED IN A HEALTHY AND ATTRACTIVE MANNER, AS DETERMINED BY THE TOWN. MAINTENANCE SHALL BE CONDUCTED BY THE PROPERTY OWNER OF RECORD, THE PROPERTY OWNER'S AGENT OR TENANT OR A HOMEOWNER'S ASSOCIATION WHICH HAS ASSUMED LANDSCAPE MAINTENANCE RESPONSIBILITY.

2. ALL ORNAMENTAL LANDSCAPING SHALL BE MAINTAINED FREE FROM DISEASE, PESTS, WEEDS, AND LITTER. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, WATERING, FERTILIZING, WEEDING, CLEANING, MOWING, EDGING, MULCHING, PRUNING, TRIMMING, SPRAYING, CULTIVATING, OR PROHIBIT REMOVAL AND REPLACEMENT AS NEEDED AND IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. AREAS OF NATIVE OR NATURALIZED LANDSCAPE ARE EXEMPT FROM THIS LEVEL OF MAINTENANCE. ACCEPTABLE MAINTENANCE OF NATIVE PLANTS INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF DEAD OR DISEASED PLANTS, WEED CONTROL AND SEASONAL MOWING.

3. DEAD PLANT MATERIALS SHALL BE REMOVED AND REPLACED WITH HEALTHY PLANTING MATERIALS OF COMPARABLE SIZE AND SPECIES THAT MEET THE ORIGINAL INTENT OF THE APPROVED LANDSCAPE DESIGN WITHIN FORTY-FIVE (45) DAYS OF THEIR DEATH, UNLESS SEASONAL CONDITIONS PROHIBIT REMOVAL AND REPLACEMENT. IN SUCH CASE, THE REMOVAL AND REPLACEMENT SHALL OCCUR WITHIN A REASONABLE PERIOD OF TIME APPROVED BY THE TOWN.

4. NON-LIVING LANDSCAPE MATERIALS SUCH AS ROCK, STONE, BARK CHIPS AND SHAVINGS WHICH NO LONGER COVER THE AREA IN WHICH THEY WERE ORIGINALLY DEPOSITED SHALL BE REGULARLY REPLENISHED TO MAINTAIN THE FULL COVERAGE TO A MINIMUM DEPTH OR THREE (3) INCHES FOR ROCK MULCHES AND FOUR (4) INCHES FOR WOOD MULCH.

5. LANDSCAPING STRUCTURAL FEATURES (E.G. FENCING, WALLS, PLANTER BOXES) AND SITE FURNISHINGS SHALL BE MAINTAINED IN A SOUND, STRUCTURAL AND ATTRACTIVE CONDITION. IRRIGATION SYSTEMS ARE TO BE MONITORED AND ADJUSTED PERIODICALLY TO ENSURE THAT THE WATER DEMANDS OF ALL PLANT MATERIALS ARE BEING MET.

6. IRRIGATION SYSTEM REPAIRS SHALL BE MADE WITHIN SEVEN (7) DAYS OF DISCOVERY OF DAMAGE, UNLESS SEASONAL CONDITIONS PROHIBIT REPAIRS.

7. LANDSCAPE AREAS SHALL BE FREE FROM TRASH AND DEBRIS.

8. FAILURE TO REPLACE DEAD LANDSCAPE MATERIALS WITHIN A REASONABLE PERIOD OF TIME, AS SPECIFIED IN PARAGRAPH (2) ABOVE, SHALL BE CONSIDERED A VIOLATION OF THE SITE PLAN APPROVAL AND IS SUBJECT TO ENFORCEMENT AND PENALTY PROVISIONS OF THIS TITLE.

SEED NOTES

1. ALL SEED MIXES AVAILABLE THROUGH:
   WESTERN NATIVE SEED COMPANY
   P.O. BOX 188
   COALDALE, CO 81222
   (719) 942-3935

2. DRYLAND SEED MIXES ARE AVAILABLE AS FOLLOWS:
   100%-"FOOTHILLS GRASS MIX",

3. ALL SEED APPLICATIONS SHALL BE DRILL SEEDED, WITH HYDROSLURRY APPLIED OVER THE SEED BED AFTER SEEDING. THE SLURRY MIX SHALL CONTAIN THE FOLLOWING:

	LBS./1,000 SF
WOOD FIBER MULCH	46
15-15-15 ORGANIC FERTILIZER	9
ORGANIC BINDER	4

'HIGH PLAINS / FOOTHILLS GRASS MIX'

FOR ELEVATIONS BETWEEN 4,500' - 7,000'

SEEDING RATE: 3 LBS/1000 SQ.FT.

%	SCIENTIFIC NAME	COMMON NAME
35	BOUTELOUA CURTIPENDULA	SIDE-OATS GRAMA
15	PASCOPYRUM SMITHII	WESTERN WHEATGRASS
10	ELYMUS ELYMOIDES	BOTTLEBRUSH SQUIRRELTAIL
10	ELYMUS TRACHYCAULUS	SLENDER WHEATGRASS
5	ANDROPOGON GERARDII	BIG BLUESTEM
5	BOUTELOUA GRACILIS	BLUE GRAMA
5	ORYZOPSIS HYMENOIDES	INDIAN RICEGRASS
5	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
5	SPOROBOLUS CRYPTANDRUS	SAND DROPSEED
5	STIPA VIRIDULA	GREEN NEEDLEGRASS

SEED ESTABLISHMENT NOTES

1. INSTALL PER SEED PROVEYOR'S AND/OR MANUFACTURE'S RECOMMENDATIONS.

2. THE LANDSCAPE CONTRACTOR SHALL SEED ALL NATIVE SEED AREAS AS SOON AS POSSIBLE AFTER COMPLETION OF GRADING OPERATIONS. SOIL PREPARATION MEASURES IN AREAS TO BE SEEDED SHALL BE COMPLETED PRIOR TO SEEDING.

3. FOR PROPER ESTABLISHMENT, SEED SHALL BE INSTALLED WHEN AT LEAST THREE MONTHS REMAIN IN THE GROWING SEASON. IF LESS THAN THREE MONTHS REMAIN IN THE GROWING SEASON AT THE TIME OF SEEDING, THE LANDSCAPE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND OWNER. THE IRRIGATION SYSTEM FOR SEEDED AREAS SHALL BE FULLY OPERATIONAL AT THE TIME OF SEEDING.

4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADDITIONAL CORRECTIVE MEASURES, AT HIS OWN COST, TO SATISFY ESTABLISHMENT REQUIREMENTS AND ENSURE TIMELY CLOSEOUT. THESE MEASURES MAY INCLUDE, AT THE OWNER'S OPTION, RESEEDING OF SPARSELY GERMINATED AREAS AND/OR INSTALLATION OF SOD IN ALL SEEDED AREAS.

TREE PROTECTION NOTES

1. USE JURISDICTIONAL TREE PROTECTION NOTES (IF AVAILABLE). TREE PROTECTION NOTES BELOW SHALL BE USED FOR FURTHER INTEGRATION.

2. TREE PRESERVATION MEASURES MUST BE IN PLACE BEFORE CONSTRUCTION, DEMOLITION AND/OR GRADING ACTIVITIES COMMENCE. THE JURISDICTION MAY STOP CONSTRUCTION IF TREE PRESERVATION MEASURES ARE NOT IN PLACE AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

3. TREES CALLED OUT FOR PRESERVATION SHALL BE FENCED AT THE DRIPLINE. FENCING MAY OCCUR AT THE COMBINED DRIPLINES OF GROVES OF TREES. PLACE 3 INCH BARK MULCH BENEATH DRIPLINES OF TREES TO BE PRESERVED.

4. FENCING SHALL BE 3 FEET TALL SNOW FENCING WITH STEEL POSTS EMBEDDED IN THE GROUND.

5. NO GRADING SHALL OCCUR WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.

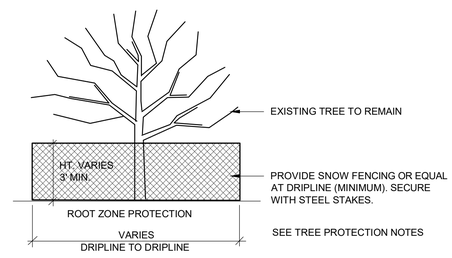
6. NO CONSTRUCTION MATERIALS OR CONSTRUCTION VEHICLES MAY BE STORED WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.

7. CONSTRUCTION VEHICLES OR MACHINERY MAY NOT PASS BETWEEN TWO OR MORE EXISTING TREES IDENTIFIED FOR PRESERVATION IF THEIR CANOPIES ARE WITHIN 10 FEET OF TOUCHING. ADDITIONAL FENCING MAY BE REQUIRED.

8. THE CONTRACTOR IS REQUIRED TO HAVE AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) ON SITE IF SITE CONSTRUCTION EFFORTS REQUIRE REMOVAL OF EXISTING ROOTS OR BRANCH PRUNING.

9. UNAUTHORIZED TREE REMOVAL OR DAMAGE IS SUBJECT TO REPLACEMENT EQUAL TO THE APPRAISED VALUE OF THE TREE LOST. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTATION OF ALL EXISTING TREES TO REMAIN, PRIOR TO CONSTRUCTION.

10. THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. AN EARTH BERM MEASURING MINIMUM 6 FEET IN DIAMETER, AND 6 INCHES IN HEIGHT SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS A TEMPORARY WATERING BASIN DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO WEATHER AND TREE SPECIES REQUIREMENTS.



EXISTING TREE PROTECTION 1

NOT TO SCALE

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEEER PRIOR TO CONSTRUCTION.

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

811 Know what's Below. Call before you dig.

Sterling Design Associates, llc
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
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COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION
10/20/17	INITIAL SUBMITTAL

REVISIONS

LANDSCAPE NOTES

PARKER POINTE
LOTS 1 THRU 14 AND TRACT A, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JLW
approved by:	JLW
project no.:	2015-015
date:	10/20/17

SHEET

L110