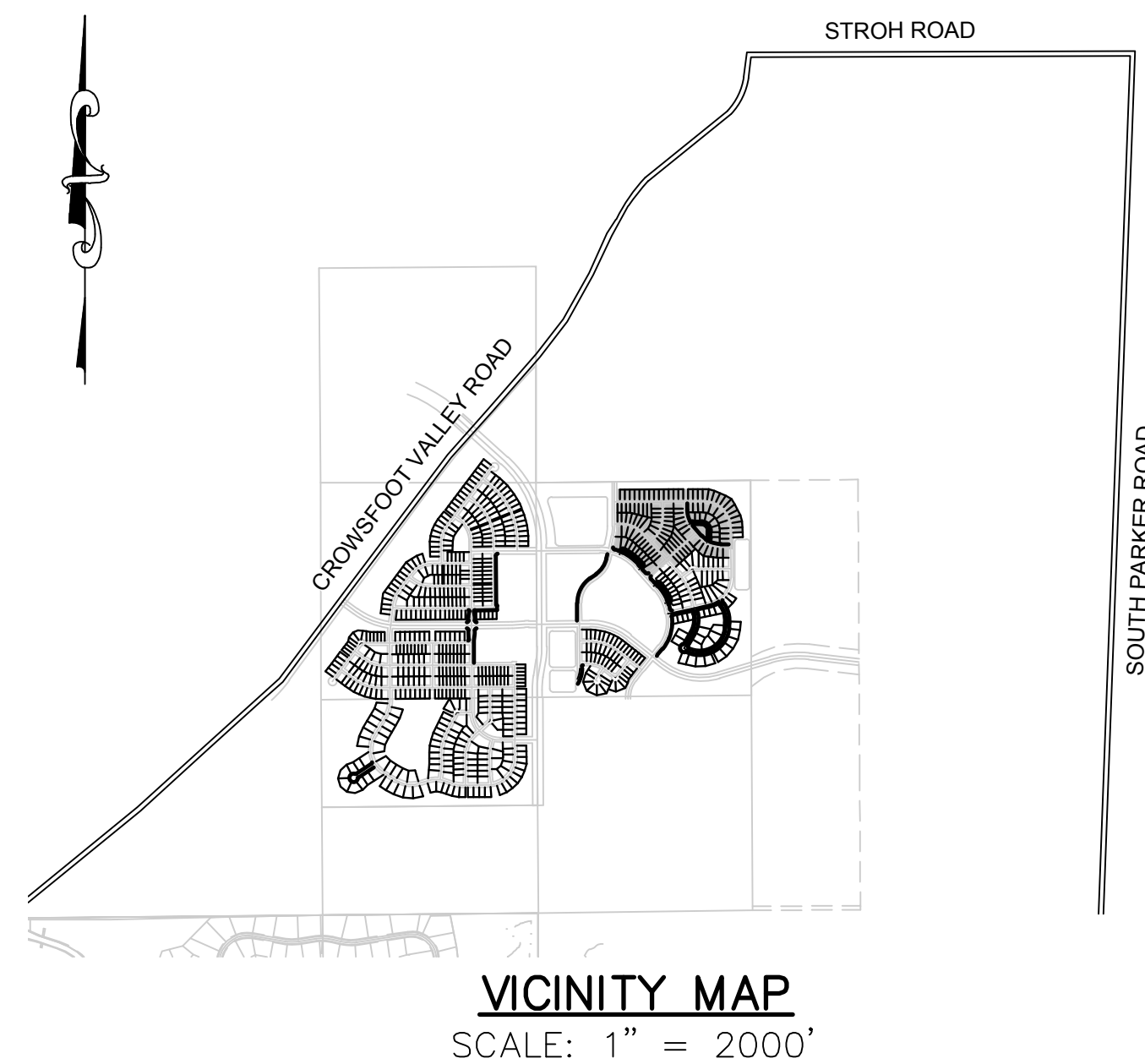


PARKER WATER AND SANITATION CONSTRUCTION PLANS

SECTIONS 4, 8, AND 9 TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN COUNTY OF DOUGLAS, STATE OF COLORADO

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	PARKER WATER AND SANITATION NOTES
3	AREA UTILITY PLAN
4	SANITARY P&P BEEBALM AVENUE
5	SANITARY P&P BEEBALM AVENUE
6	SANITARY P&P ALPINE PHLOX LANE
7	SANITARY P&P BEEBALM TRAIL
8	SANITARY P&P COPPERMALLOW TRAIL
9	SANITARY P&P CROWNVETCH CIRCLE
10	SANITARY P&P GRAY ASTER LOOP
11	SANITARY P&P ALPINE DAISY CIRCLE
12	WATER P&P BEEBALM AVENUE
13	WATER P&P BEEBALM AVENUE
14	WATER P&P ALPINE PHLOX LANE
15	WATER P&P BEEBALM TRAIL
16	WATER P&P COPPERMALLOW TRAIL
17	WATER P&P CROWNVETCH CIRCLE
18	WATER P&P GRAY ASTER LOOP
19	WATER P&P ALPINE DAISY CIRCLE
20	SANITARY SEWER DETAILS
21	SANITARY SEWER DETAILS
22	SANITARY SEWER DETAILS
23	WATER DETAILS
24	WATER DETAILS
25	WATER DETAILS
26	WATER DETAILS
27	WATER DETAILS
28	WATER DETAILS



MATERIALS LIST		
DESCRIPTION	QUANTITY	UNIT
8" WATERPIPE (C900)	4.491	L.F.
6" WATERPIPE (DIP-FIRE HYDRANT LINE)	165	L.F.
8" GATE VALVE W/ BOX	17	EA.
6" GATE VALVE W/ BOX	8	EA.
FIRE HYDRANT ASSEMBLY	8	EA.
8" MISC. FITTINGS	47	EA.
WATER SERVICE LATERAL W/ WATER METER AND PIT	129	EA.
8" SEWER (SDR-35 PVC)	3,729	L.F.
4' DIA. MANHOLE	28	EA.
SEWER SERVICE LATERAL W/ WYE TAP	129	EA.

FIRE DEPARTMENT APPROVAL

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE)	DATE
(NOTE- UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA24 WHEN SUBMITTING FOR REVIEW.)	

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 SCHEDULED 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 SIGNED: _____

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____
(DISTRICT ENGINEER)

DATE SIGNED: _____

DEVELOPER

E5X MANAGEMENT
7353 SOUTH ALTON WAY
CENTENNIAL, CO 80112
TEL: (303) 770-9111
CONTACT: MATT JANKE

PLANNER/
LANDSCAPE
DESIGNER:

PCS GROUP, INC.
200 KALAMATH STREET
DENVER, CO 80233
TEL: (303) 531-4905
CONTACT: JOHN PRESTWICH

SURVEYOR/
ENGINEER:

**CVL CONSULTANTS
OF COLORADO, INC.**
10333 E. DRY CREEK RD. STE 240
ENGLEWOOD, CO 80112
TEL: (720) 482-9526
CONTACT: JIM JANNICKE

UTILITY
DISTRICT

**PARKER WATER AND
SANITATION DISTRICT**
18100 E. WOODMAN DRIVE
PARKER, CO 80134
TEL: (303) 841-4627

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A
3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST
QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST
OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED
ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9
BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID
SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT
THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2"
ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR
SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

N:\PROJECTS\SIHSS RANCH\CAD\ENGINEERING\SHEET SETS\CD\S\F10\PARKER WATER AND SANITATION\F10 COVER.DWG, CHRISTOPHERB, 1/4/2018 7:36 PM



**CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987**

SHEET NUMBER 1	DRAWN BY: KJD		SCALE: AS SHOWN	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS COVER SHEET	 CVL CONSULTANTS	10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80122 Tel: (720) 482-3546 Fax: (720) 482-3546						
	CHECKED BY: JJJ		FILE NO: 8130283701									
	DATE: SEPTEMBER 2017											
							No.	Revisions	Date	Initi.	Appr.	Date

UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A
3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST
QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST
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BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

BRIAN P. WILSON
COLORADO P.E. 0050067

SHEET NUMBER 2	DRAWN BY: KJD	SCALE: AS SHOWN	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS PARKER WATER AND SANITATION NOTES	HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112		10333 E. Dry Creek Rd. Suite 200 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546						
	CHECKED BY: JJJ	FILE NO: 8130283701										
	DATE: SEPTEMBER 2017											
							No.	Revisions	Date	Init.	Appr.	Date

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F10,B1,L1	BEEBALM AVE	11+62.50	17+72.50
F10,B1,L2	BEEBALM AVE	12+22.50	11+72.50
F10,B1,L3	BEEBALM AVE	12+81.22	12+32.50
F10,B1,L4	BEEBALM AVE	13+33.40	12+92.50
F10,B1,L5	BEEBALM AVE	14+02.49	13+52.50
F10,B1,L6	BEEBALM AVE	14+62.50	14+12.50
F10,B1,L7	BEEBALM AVE	15+22.50	14+72.50
F10,B1,L8	BEEBALM AVE	15+82.50	15+32.50
F10,B1,L9	BEEBALM AVE	16+42.48	15+92.50
F10,B1,L10	BEEBALM AVE	17+02.49	16+52.50
F10,B1,L11	BEEBALM AVE	17+62.49	17+12.50
F10,B1,L12	BEEBALM AVE	18+22.50	18+32.50
F10,B1,L13	BEEBALM AVE	18+82.50	18+92.50
F10,B1,L14	BEEBALM AVE	20+01.89	20+12.50
F10,B1,L15	BEEBALM AVE	20+60.13	20+72.50
F10,B1,L16	BEEBALM AVE	21+19.45	21+32.50
F10,B1,L17	BEEBALM AVE	21+74.22	21+84.48
F10,B1,L18	BEEBALM AVE	22+25.18	22+33.85
F10,B1,L19	BEEBALM AVE	22+82.39	22+91.76
F10,B1,L20	BEEBALM AVE	23+33.18	23+43.04
F10,B1,L21	BEEBALM AVE	23+84.90	23+95.22
F10,B1,L22	BEEBALM AVE	24+30.45	24+46.83
F10,B1,L23	BEEBALM AVE	24+91.72	25+00.86
F10,B1,L24	BEEBALM AVE	25+43.57	25+53.27
F10,B1,L25	BEEBALM AVE	25+93.93	26+04.58
F10,B1,L26	BEEBALM AVE	26+51.34	26+60.35
F10,B1,L27	BEEBALM AVE	27+06.52	27+16.52
F10,B1,L28	BEEBALM AVE	27+66.52	27+76.52
F10,B2,L1	BEEBALM AVE	11+24.68	11+34.68
F10,B2,L2	BEEBALM AVE	11+76.86	11+86.86
F10,B2,L3	BEEBALM AVE	12+29.04	12+39.04
F10,B2,L4	BEEBALM AVE	12+78.58	12+91.22
F10,B2,L5	BEEBALM AVE	13+29.83	13+43.40
F10,B2,L6	BEEBALM AVE	13+82.49	13+92.49
F10,B2,L7	BEEBALM AVE	14+37.76	14+47.76
F10,B2,L8	BEEBALM AVE	14+90.00	15+00.00
F10,B2,L9	BEEBALM TRL	10+55.50	10+45.50
F10,B2,L10	BEEBALM TRL	11+05.24	10+95.25
F10,B2,L11	BEEBALM TRL	11+57.75	11+47.90
F10,B2,L12	BEEBALM TRL	12+18.89	11+93.41
F10,B2,L13	BEEBALM TRL	12+88.59	12+77.94
F10,B2,L14	BEEBALM TRL	13+76.17	13+66.36
F10,B2,L15	BEEBALM TRL	14+55.05	14+42.29
F10,B2,L16	ALPINE PHLOX LN	13+54.95	13+68.94
F10,B2,L17	ALPINE PHLOX LN	12+99.16	13+08.40
F10,B2,L18	ALPINE PHLOX LN	12+50.07	12+61.30
F10,B2,L19	ALPINE PHLOX LN	12+10.13	12+20.32
F10,B2,L20	ALPINE PHLOX LN	11+69.14	11+77.62
F10,B2,L21	ALPINE PHLOX LN	11+18.72	11+29.12
F10,B2,L22	ALPINE PHLOX LN	10+72.75	10+84.26
F10,B3,L1	BEEBALM TRL	10+52.50	10+42.50
F10,B3,L2	BEEBALM TRL	11+03.64	10+93.64
F10,B3,L3	BEEBALM TRL	11+54.79	11+44.79
F10,B3,L4	BEEBALM TRL	12+10.59	11+95.94
F10,B3,L5	BEEBALM TRL	12+49.37	12+40.10
F10,B3,L6	BEEBALM TRL	12+99.53	12+88.19
F10,B3,L7	BEEBALM TRL	13+39.24	13+32.15
F10,B3,L8	BEEBALM TRL	13+82.82	13+74.37
F10,B3,L9	BEEBALM TRL	14+32.75	14+22.50
F10,B3,L10	BEEBALM TRL	14+81.93	14+69.75
F10,B3,L11	COPPERMALLOW TRL	14+05.90	14+17.00
F10,B3,L12	COPPERMALLOW TRL	14+54.80	14+67.00

FIRE DEPARTMENT APPROVAL

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(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE)

DATE

(NOTE: UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA24 WHEN SUBMITTING FOR REVIEW.)

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F10,B3,L13	COPPERMALLOW TRL	15+03.70	15+17.00
F10,B3,L14	COPPERMALLOW TRL	15+52.60	15+67.00
F10,B3,L15	COPPERMALLOW TRL	16+01.50	16+17.00
F10,B3,L16	COPPERMALLOW TRL	16+59.16	16+73.47
F10,B3,L17	CROWNVEATCH CIR	13+73.40	13+93.40
F10,B3,L18	CROWNVEATCH CIR	13+19.21	13+30.07
F10,B3,L19	CROWNVEATCH CIR	12+31.57	12+21.27
F10,B3,L20	CROWNVEATCH CIR	11+75.71	11+67.62
F10,B3,L21	CROWNVEATCH CIR	11+17.53	11+07.64
F10,B3,L22	CROWNVEATCH CIR	10+42.50	10+32.50
F10,B4,L1	BEEBALM AVE	19+90.78	20+00.78
F10,B4,L2	BEEBALM AVE	20+42.13	20+52.13
F10,B4,L3	BEEBALM AVE	20+93.48	21+03.48
F10,B4,L4	BEEBALM AVE	21+56.27	21+66.98
F10,B4,L5	BEEBALM AVE	22+27.54	22+45.76
F10,B4,L6	BEEBALM AVE	23+12.53	23+22.96
F10,B4,L7	BEEBALM AVE	23+90.23	24+00.40
F10,B4,L8	BEEBALM AVE	24+67.79	24+77.66
F10,B4,L9	BEEBALM AVE	25+45.58	25+55.22
F10,B4,L10	BEEBALM AVE	26+24.51	26+34.36
F10,B4,L11	BEEBALM AVE	26+88.86	26+98.86
F10,B4,L12	BEEBALM AVE	27+40.21	27+50.21
F10,B4,L13	BEEBALM AVE	27+81.52	28+01.56

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F10,B4,L14	BEEBALM AVE	28+16.56	28+58.88
F10,B4,L15	GRAY ASTER LOOP	14+07.86	14+19.36
F10,B4,L16	GRAY ASTER LOOP	13+66.95	13+81.42
F10,B4,L17	GRAY ASTER LOOP	13+10.56	13+19.52
F10,B4,L18	GRAY ASTER LOOP	12+60.28	12+69.40
F10,B4,L19	GRAY ASTER LOOP	12+17.18	12+24.17
F10,B4,L20	GRAY ASTER LOOP	11+81.14	11+86.40
F10,B4,L21	GRAY ASTER LOOP	11+23.58	11+33.58
F10,B4,L22	GRAY ASTER LOOP	10+62.18	10+72.18
F10,B5,L1	ALPINE PHLOX LN	10+72.75	10+82.75
F10,B5,L2	ALPINE PHLOX LN	11+46.90	11+57.94
F10,B5,L3	ALPINE PHLOX LN	12+44.43	12+63.28
F10,B5,L4	ALPINE PHLOX LN	13+28.14	13+38.81
F10,B5,L5	ALPINE PHLOX LN	13+98.85	14+08.85
F10,B5,L6	ALPINE PHLOX LN	14+51.45	14+61.46
F10,B5,L7	ALPINE PHLOX LN	15+04.06	15+14.07
F10,B5,L8	ALPINE PHLOX LN	15+56.67	15+66.68
F10,B5,L9	ALPINE PHLOX LN	16+08.67	16+19.29

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 OR CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS

WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

TOWN OF PARKER, DIRECTOR OF ENGINEERING

DATE

BENCHMARK

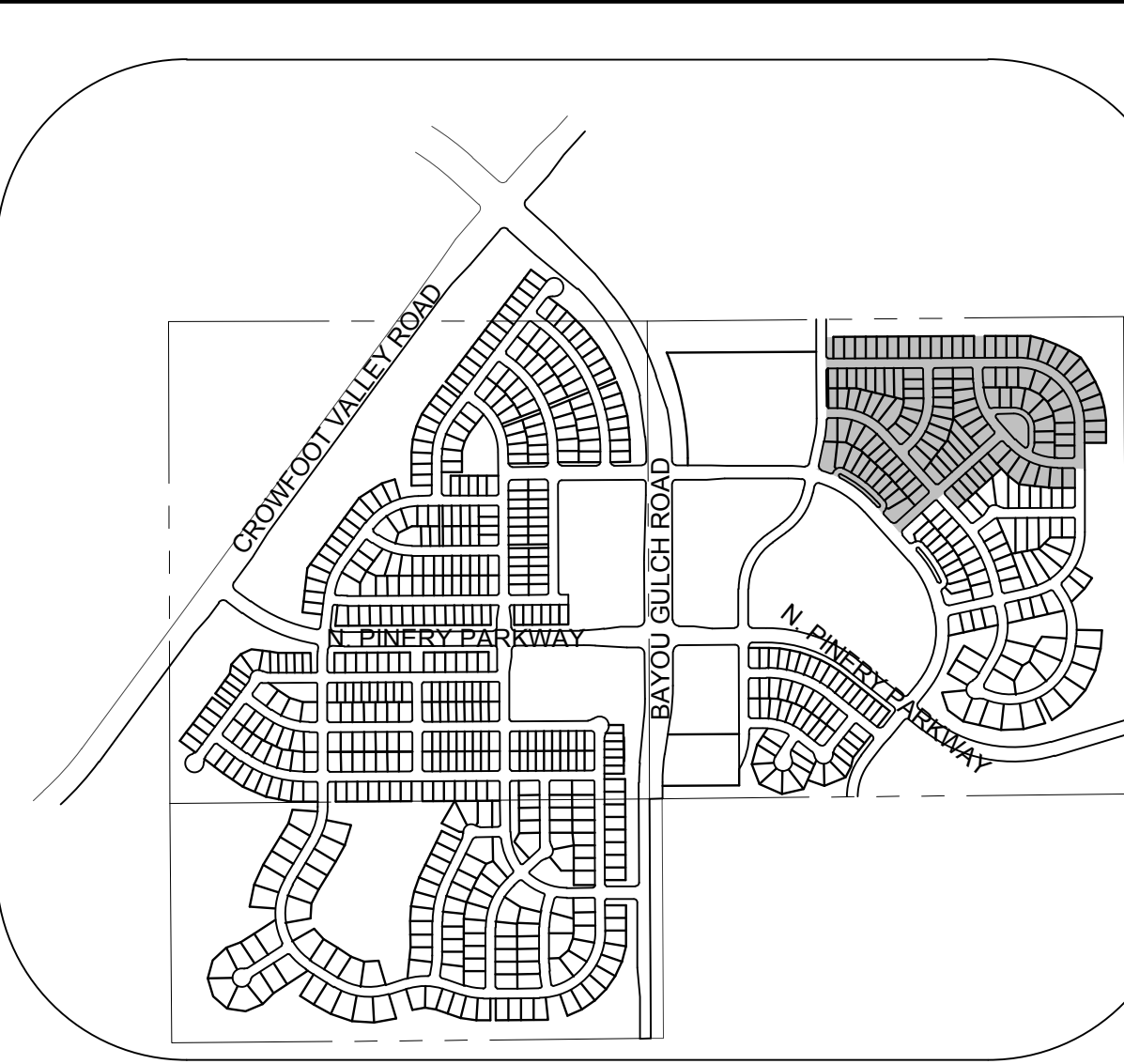
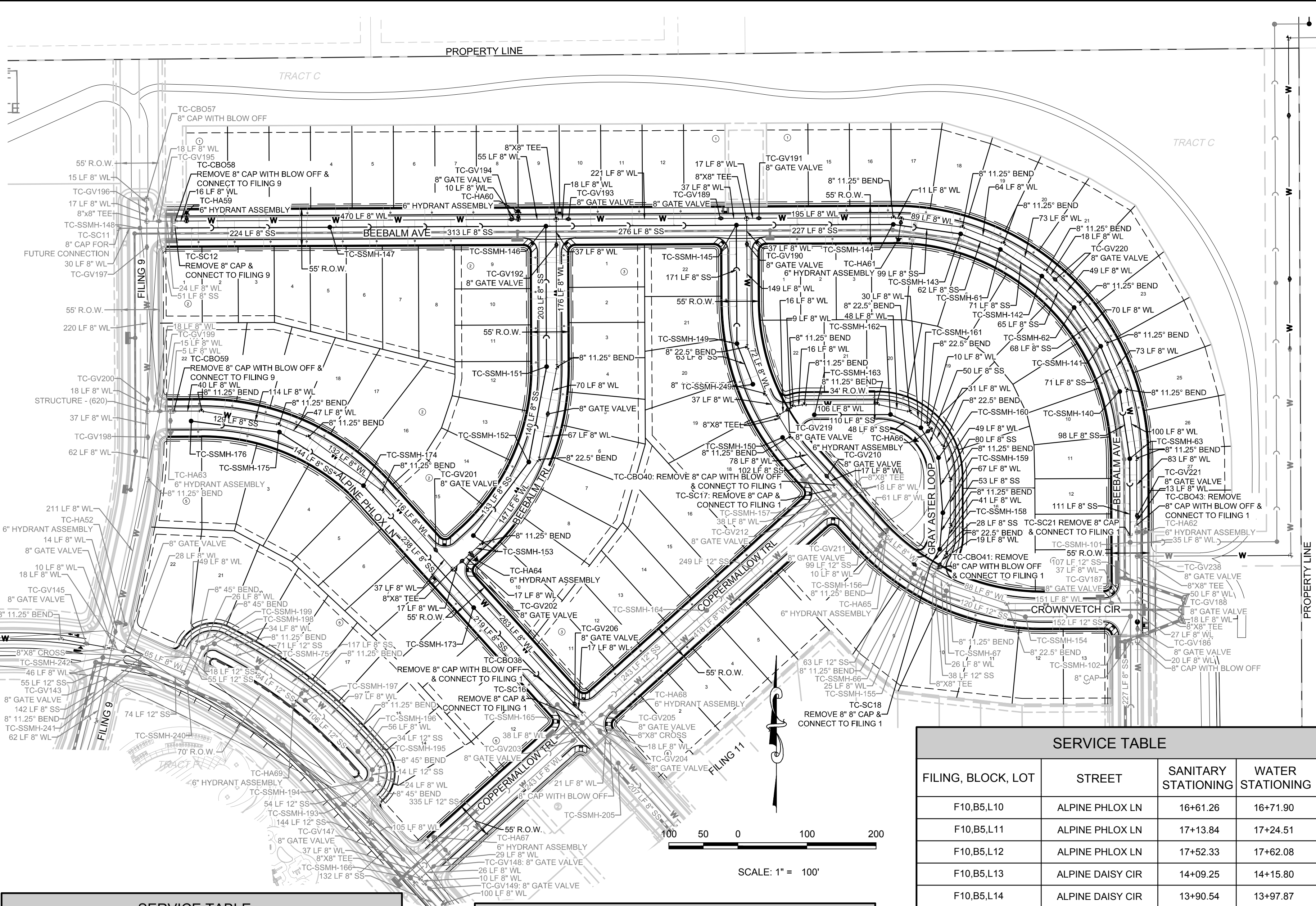
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:

THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067



2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊕	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⌈	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
➔	PROPOSED REDUCER	➔	PROPOSED DIRECTION OF FLOW
⊕	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊕	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⊕	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⊕	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊕	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊕	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊕	FUTURE PHASE VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊕	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LATERAL
⊕	PROPOSED LIGHT POLE	8"	PROPOSED WATER LINE
⊕	PROPOSED SIDEWALK	---	PROPOSED WATER LATERAL W/ METER
⊕	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	FO	EXISTING FIBER OPTIC LINE
⊕	PROPOSED STORM DRAIN INLET	OH	EXISTING OVERHEAD POWER
⊕	PROPOSED STORM DRAIN MANHOLE	TEL	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	RCR	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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 SCHEDULELINE 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

10333 E. Dry Creek Rd. Englewood, CO 80110 Tel: (720) 482-9526 Fax: (720) 482-9548	Revisions	No.	Date	Appr.	Date
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS AREA UTILITY PLAN	AS SHOWN	FILE NO.	8130283701	
DRAWN BY: JLR	CHECKED BY: JLU	DATE: SEPTEMBER 2017			
SHEET NUMBER	3				

N:\PROJECTS\SSR\BEEBALM\ENGINEERING\SSR\BEEBALM\PLAN AND PROFILE\10 BEEBALM AVENUE SANITARY.DWG, CHRISTOPHER, 14/2018 4:52 PM



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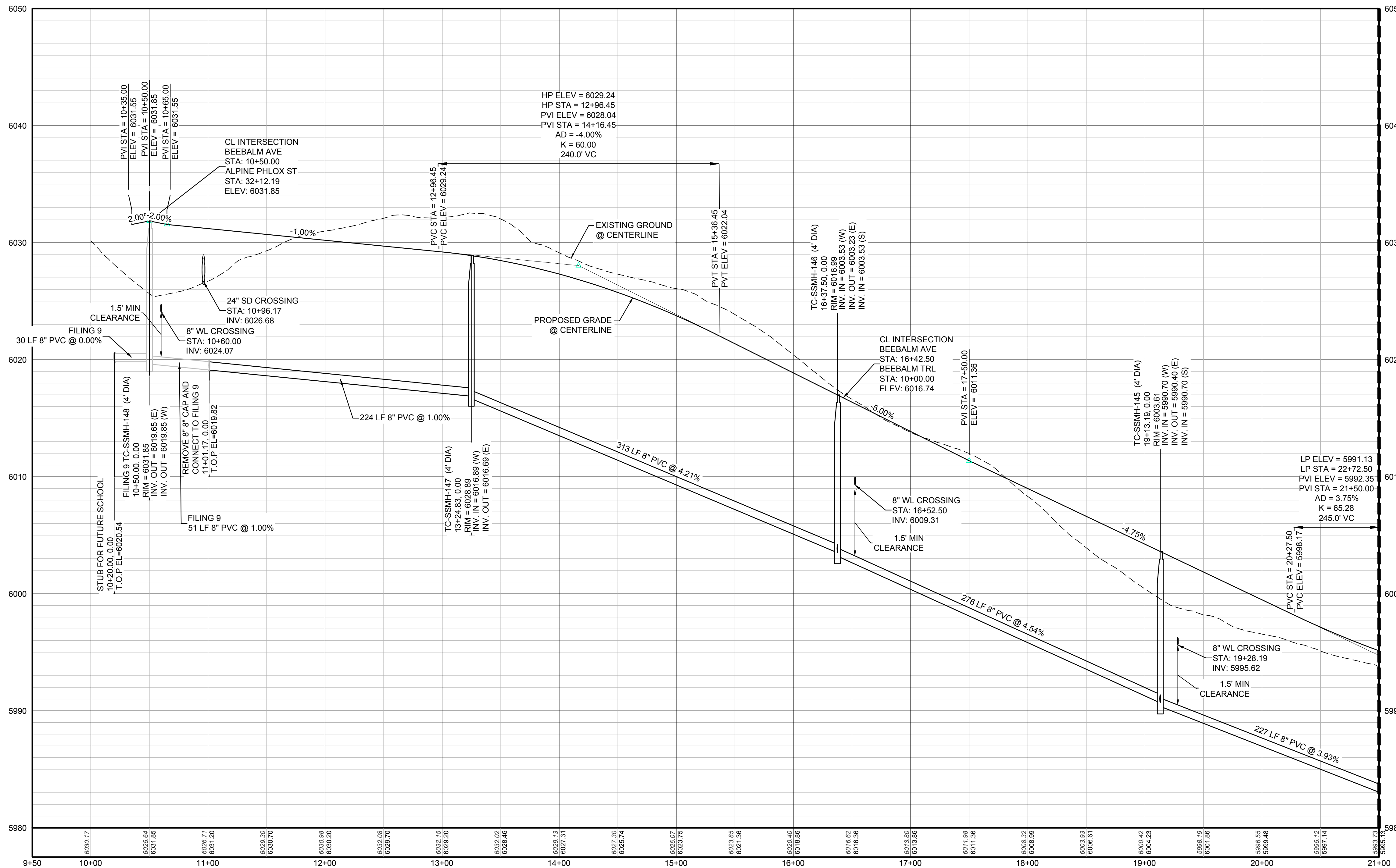
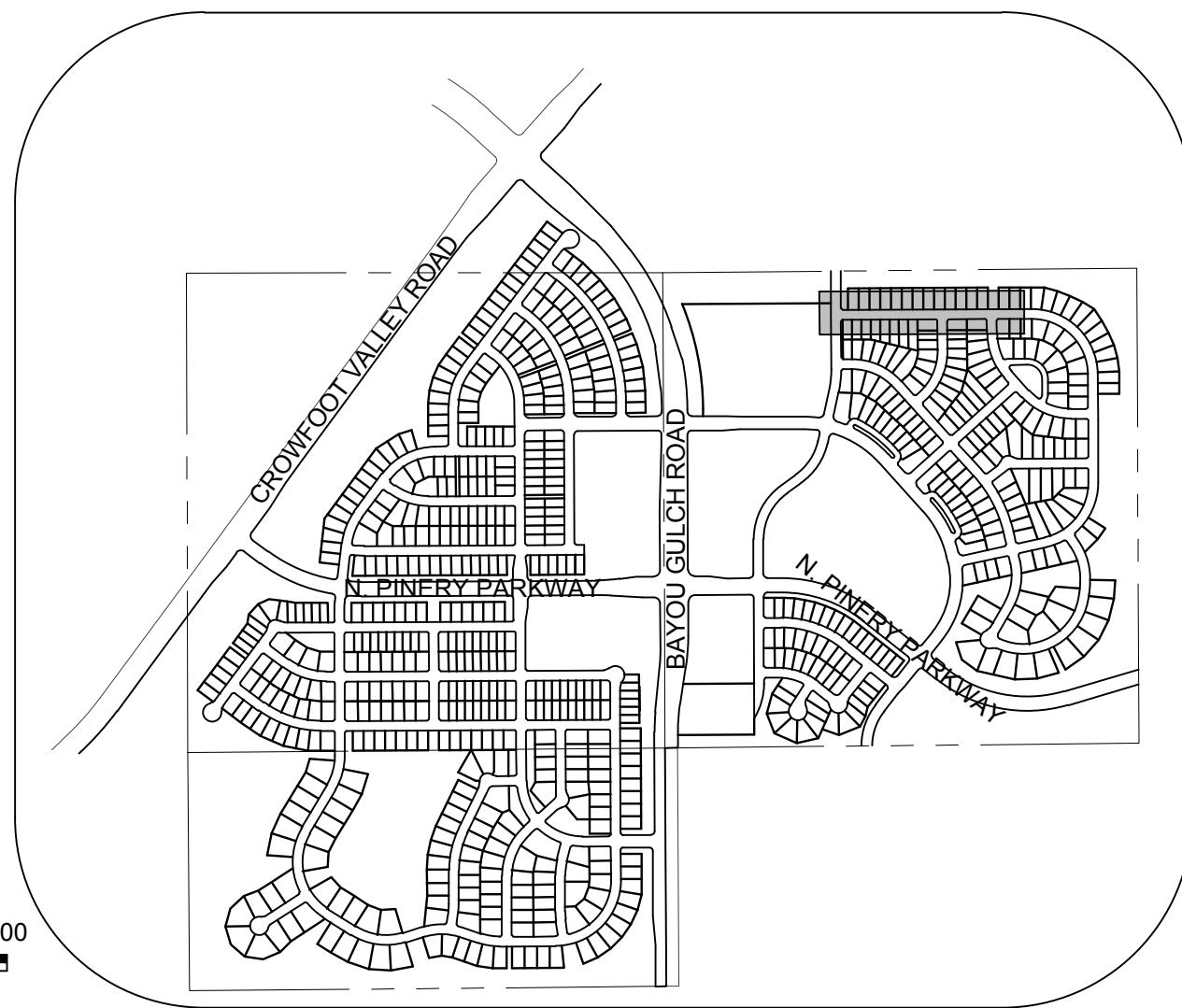
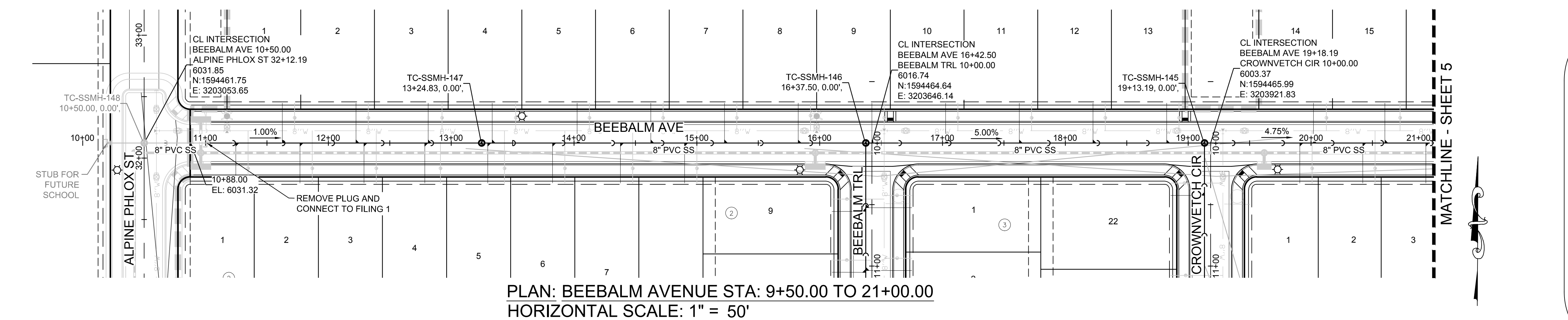
LITIGATION NOTIFICATION CENTER OF COLORADO

CALL 811

TWO WORKING DAYS

BEFORE YOU DIG

1-800-922-1987



② BLOCK NUMBER

Ⓐ LOT TYPE

6 LOT NUMBER

⊕ PROPOSED BUTTERFLY VALVE

⌋ PROPOSED CAP WITH END OF LINE BLOWOFF

⌋ PROPOSED REDUCER

⊕ PROPOSED VALVE

⌋ PROPOSED FIRE HYDRANT

⌋ PROPOSED WL FITTING WITH THRUST BLOCK

⌋ PROPOSED FLARED END SECTION

⊕ PROPOSED LOW POINT BLOW-OFF

⊕ PROPOSED AIR VALVE

⌋ FUTURE PHASE VALVE

⌋ FUTURE FIRE HYDRANT

⌋ PROPOSED LIGHT POLE

⌋ PROPOSED SIDEWALK

⌋ PROPOSED SIDEWALK RAMP

10.00 EXISTING ELEVATION

10.00 PROPOSED DESIGN ELEVATION

⌋ PROPOSED STORM DRAIN INLET

⊕ PROPOSED STORM DRAIN MANHOLE

△ PROPOSED RANGE POINT

--- CENTERLINE

--- RIGHT-OF-WAY

--- PROPERTY LINE

--- EDGE OF PAVEMENT

→ PROPOSED DIRECTION OF FLOW

1.0% PROPOSED SLOPE & DIRECTION

5615 EXISTING 5' CONTOUR

5616 EXISTING 1' CONTOUR

5620 PROPOSED 5' CONTOUR

5607 PROPOSED 1' CONTOUR

--- PROPOSED STORM DRAIN

--- PROPOSED SEWER LINE WITH MANHOLE

--- PROPOSED SEWER LATERAL

--- PROPOSED WATER LINE

--- PROPOSED WATER LATERAL W/ METER

--- SECTION LINE

--- FILING BOUNDARY

--- FO EXISTING FIBER OPTIC LINE

--- OH EXISTING OVERHEAD POWER

--- TEL EXISTING TELEPHONE LINE

AD ANGLE DIFFERENCE

AV AIR VAC RELEASE VALVE

BVC BEGIN VERTICAL CURVE

BVP BEGIN VERTICAL PROFILE

CBO CAP WITH BLOW OFF

CRR CURB RETURN RADIUS

EL ELEVATION

EP EDGE OF PAVEMENT

EVC END VERTICAL CURVE

EVP END VERTICAL PROFILE

FG FINISHED GROUND

FL FLOW LINE

GV GATE VALVE

HA HYDRANT ASSEMBLY

HCR HANDICAP CURB RAMP

HP HIGH POINT

INV INVERT

K CURVATURE COEFFICIENT

LF LINEAR FEET

MH MANHOLE

N.T.S. NOT TO SCALE

PVC POLYVINYL CHLORIDE

PVI PT. OF VERTICAL INTERSECTION

PVT POINT OF VERTICAL TANGENT

RCBC REINFORCED CONCRETE BOX CULVERT

RCP REINFORCED CONCRETE PIPE

ROW RIGHT OF WAY

SC SANITARY CAP

SD STORM DRAIN

SL SECTION LINE

SS SANITARY SEWER

STA STATION

T.O.P. TOP OF PIPE

UE UTILITY EASEMENT

VC VERTICAL CURVE

WL WATER LINE

WLC WATER LINE CONNECTION

WSE WATER SURFACE ELEVATION

1. SEE SHEET 3 - AREA UTILITY PLAN FOR SANITARY SERVICE TABLES.

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

10333 E. Dry Creek Rd.
Denver, CO 80149
Tel: (720) 482-9526
Fax: (720) 482-9548



HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
BEEBALM AVENUE

SCALE: AS SHOWN
FILE NO: 8130283701

DRAWN BY: JLR
CHECKED BY: JJJ
DATE: SEPTEMBER 2017

SHEET NUMBER

4

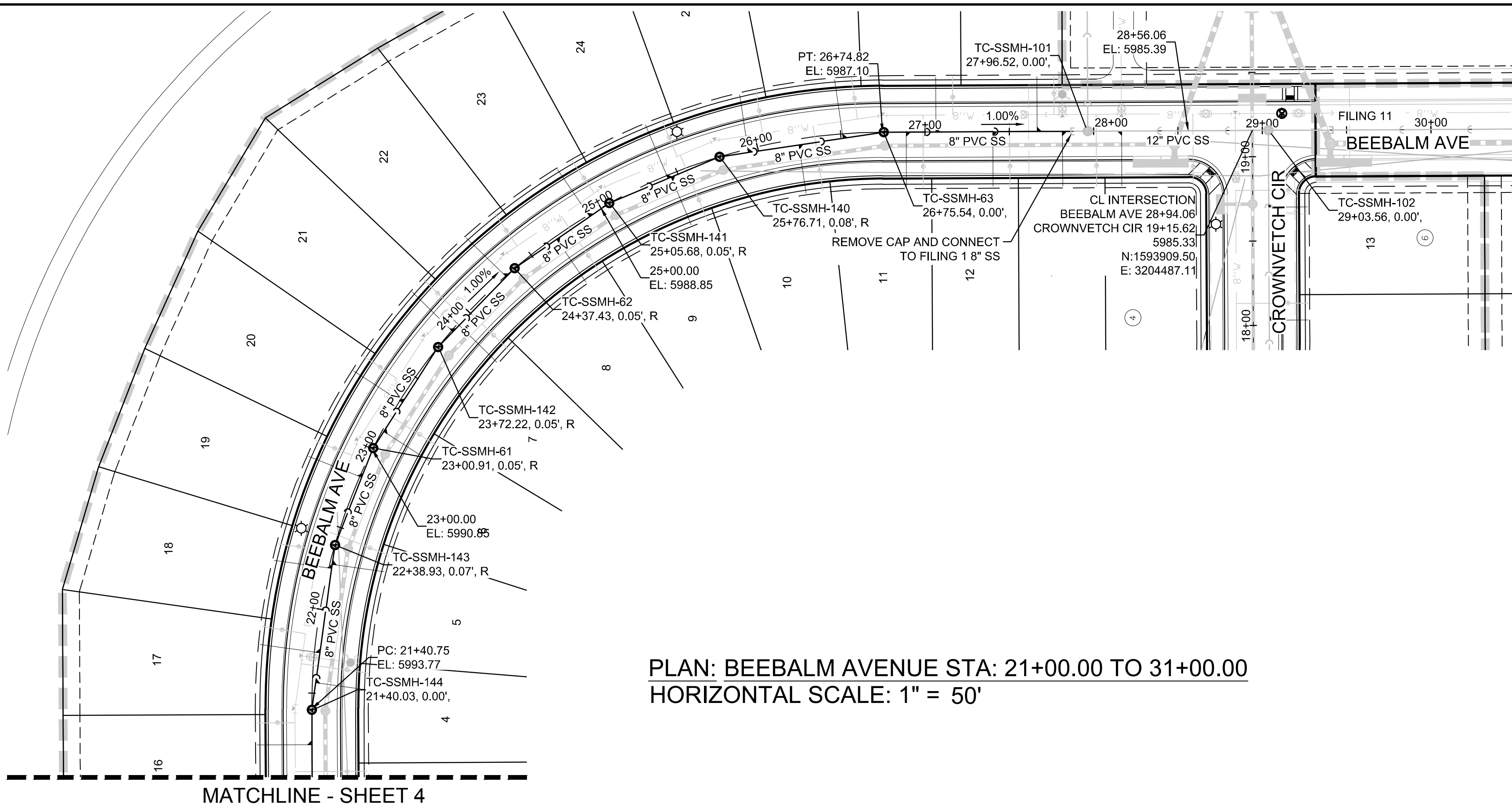
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Revisions

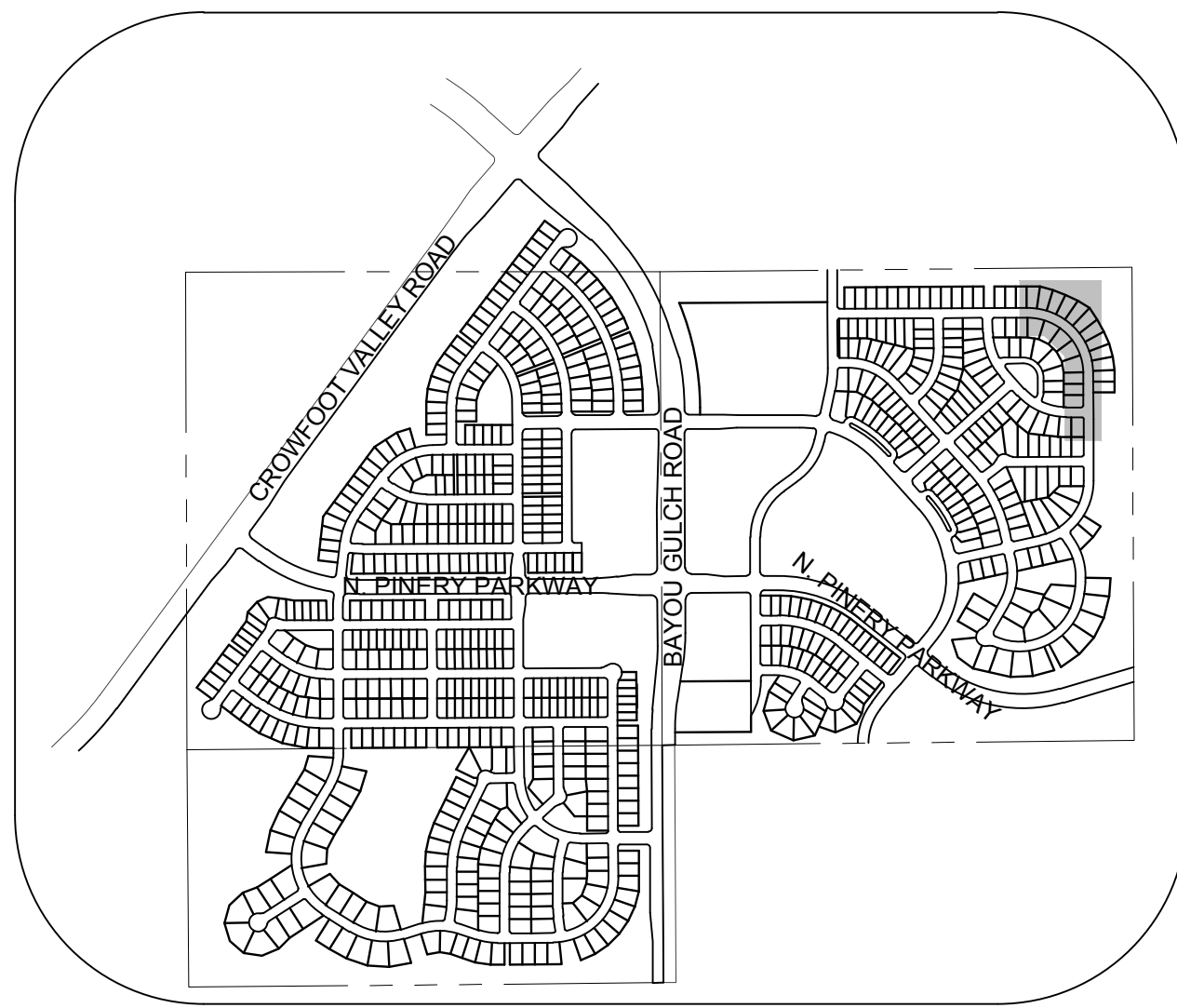
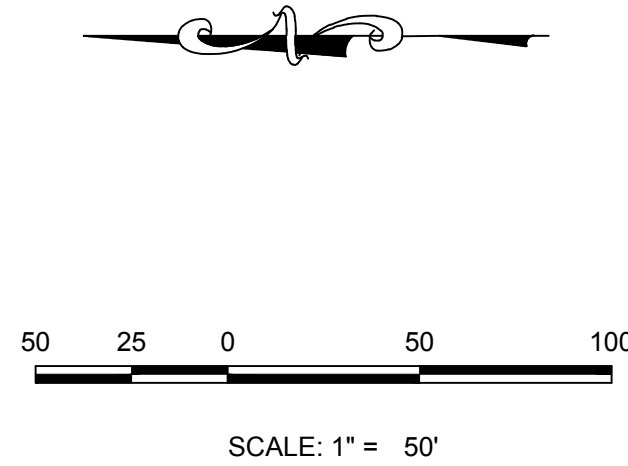
Date

Appr.

Date



PLAN: BEEBALM AVENUE STA: 21+00.00 TO 31+00.00
HORIZONTAL SCALE: 1" = 50'



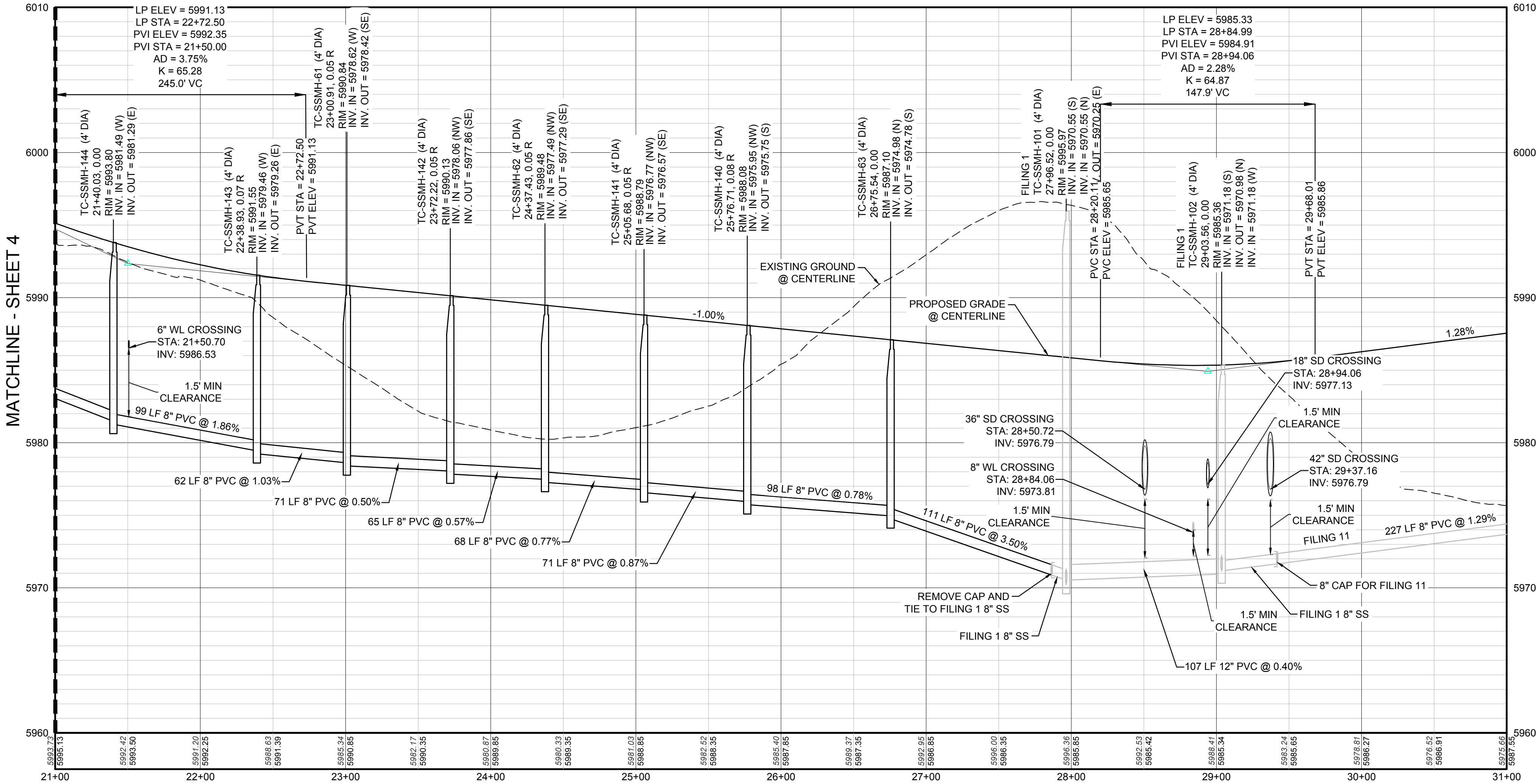
KEYMAP
N.T.S.
LEGEND

- | | | | |
|-------|---------------------------------------|------|----------------------------------|
| 2 | BLOCK NUMBER | △ | PROPOSED RANGE POINT |
| A | LOT TYPE | --- | CENTERLINE |
| 6 | LOT NUMBER | --- | RIGHT-OF-WAY |
| ⊗ | PROPOSED BUTTERFLY VALVE | --- | PROPERTY LINE |
|] | PROPOSED CAP WITH END OF LINE BLOWOFF | --- | EDGE OF PAVEMENT |
| ⊗ | PROPOSED REDUCER | → | PROPOSED DIRECTION OF FLOW |
| ⊗ | PROPOSED VALVE | 1.0% | PROPOSED SLOPE & DIRECTION |
| ⊗ | PROPOSED FIRE HYDRANT | --- | EXISTING 5' CONTOUR |
| ⊗ | PROPOSED WL FITTING WITH THRUST BLOCK | --- | EXISTING 1' CONTOUR |
| ⊗ | PROPOSED FLARED END SECTION | --- | PROPOSED 5' CONTOUR |
| ⊗ | PROPOSED LOW POINT BLOW-OFF | --- | PROPOSED 1' CONTOUR |
| ⊗ | PROPOSED AIR VALVE | --- | PROPOSED STORM DRAIN |
| ⊗ | FUTURE PHASE VALVE | --- | PROPOSED SEWER LINE WITH MANHOLE |
| ⊗ | FUTURE FIRE HYDRANT | --- | PROPOSED SEWER LATERAL |
| ⊗ | PROPOSED LIGHT POLE | --- | PROPOSED WATER LINE |
| ⊗ | PROPOSED SIDEWALK | --- | PROPOSED WATER LATERAL W/ METER |
| ⊗ | PROPOSED SIDEWALK RAMP | --- | SECTION LINE |
| 10.00 | EXISTING ELEVATION | --- | FILING BOUNDARY |
| 10.00 | PROPOSED DESIGN ELEVATION | --- | EXISTING FIBER OPTIC LINE |
| ⊗ | PROPOSED STORM DRAIN INLET | --- | EXISTING OVERHEAD POWER |
| ⊗ | PROPOSED STORM DRAIN MANHOLE | --- | EXISTING TELEPHONE LINE |

ABBREVIATIONS

- | | | | |
|-----|------------------------|--------|---------------------------------|
| AD | ANGLE DIFFERENCE | MH | MANHOLE |
| AV | AIR VAC RELEASE VALVE | N.T.S. | NOT TO SCALE |
| BVC | BEGIN VERTICAL CURVE | PVC | POLYVINYL CHLORIDE |
| BVP | BEGIN VERTICAL PROFILE | PVI | PT. OF VERTICAL INTERSECTION |
| CBO | CAP WITH BLOW OFF | PVT | POINT OF VERTICAL TANGENT |
| CRR | CURB RETURN RADIUS | RCBC | REINFORCED CONCRETE BOX CULVERT |
| EL | ELEVATION | RCP | REINFORCED CONCRETE PIPE |
| EP | EDGE OF PAVEMENT | ROW | RIGHT OF WAY |
| EVC | END VERTICAL CURVE | SC | SANITARY CAP |
| EVP | END VERTICAL PROFILE | SD | STORM DRAIN |
| FG | FINISHED GROUND | SL | SECTION LINE |
| FL | FLOW LINE | SS | SANITARY SEWER |
| GV | GATE VALVE | STA | STATION |
| HA | HYDRANT ASSEMBLY | T.O.P. | TOP OF PIPE |
| HCR | HANDICAP CURB RAMP | UE | UTILITY EASEMENT |
| HP | HIGH POINT | VC | VERTICAL CURVE |
| INV | INVERT | WL | WATER LINE |
| K | CURVATURE COEFFICIENT | WLC | WATER LINE CONNECTION |
| LF | LINEAR FEET | WSE | WATER SURFACE ELEVATION |

1. SEE SHEET 3 - AREA UTILITY PLAN FOR SANITARY SERVICE TABLES.



PROFILE: BEEBALM AVENUE STA: 21+00.00 TO 31+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:

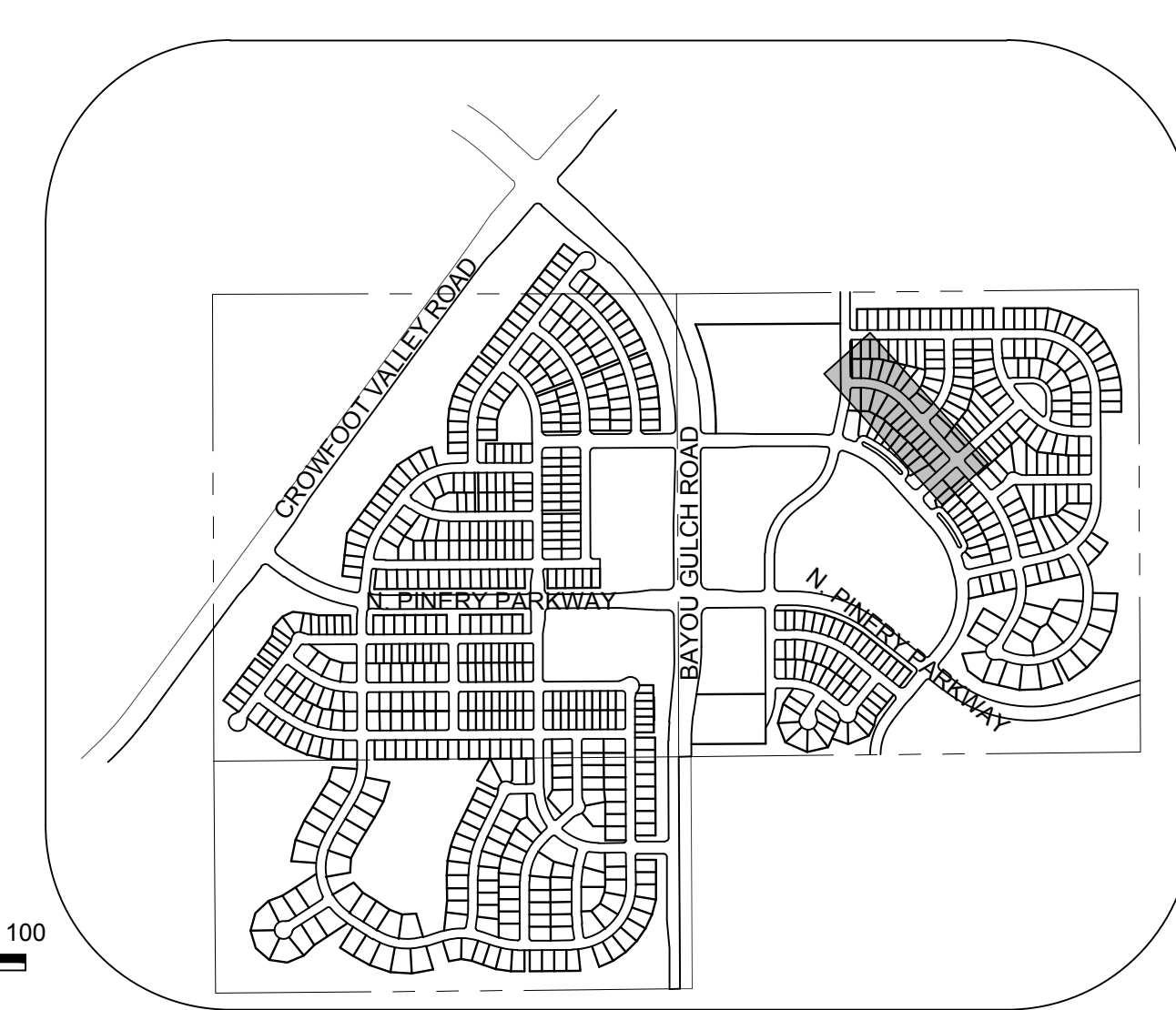
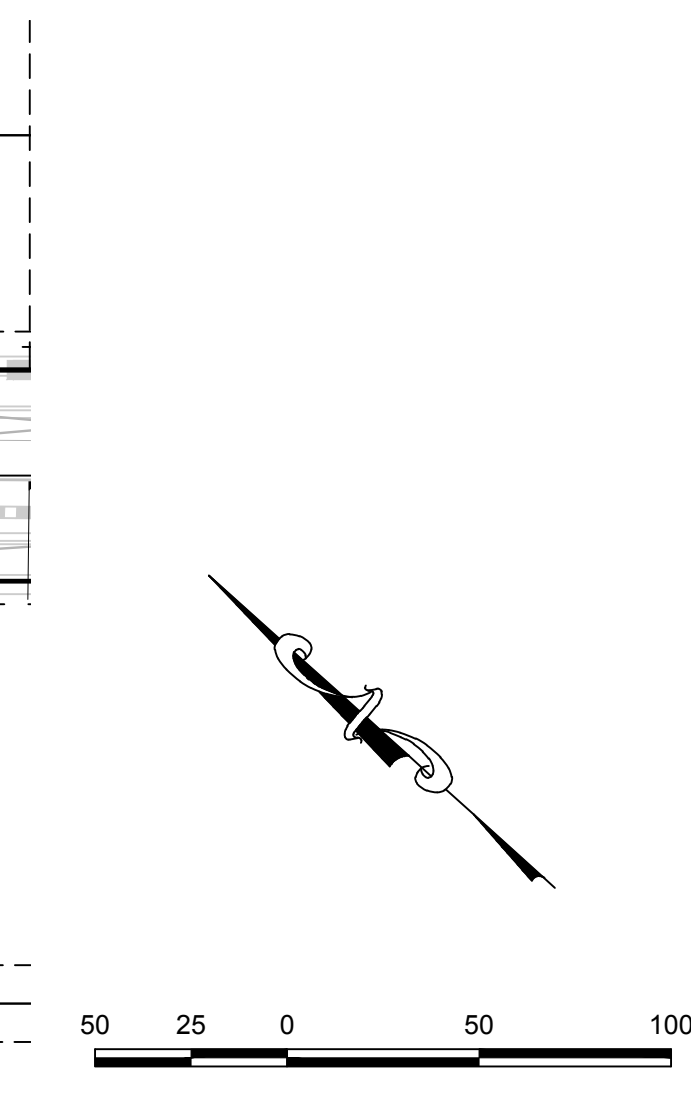
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

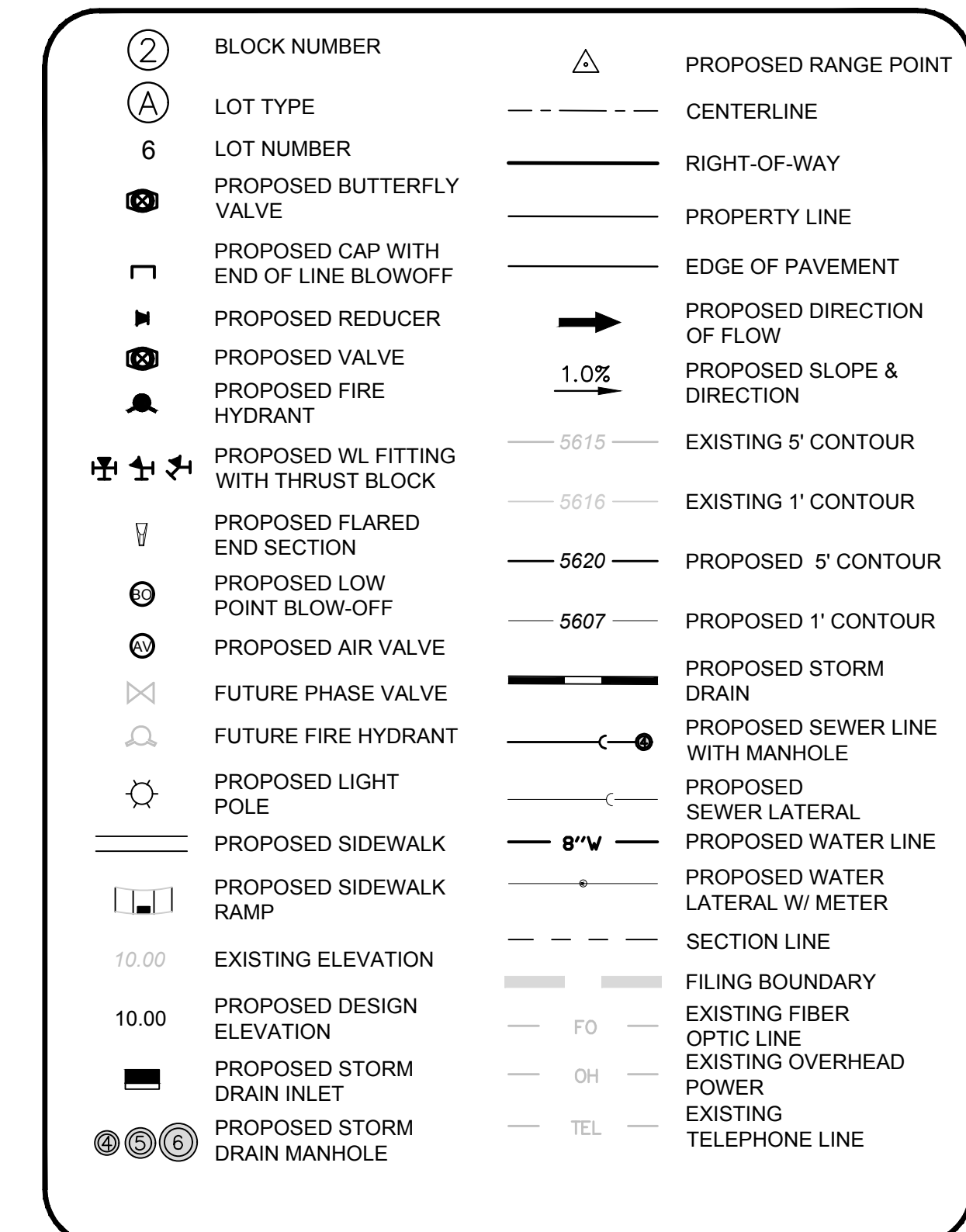
BRIAN P. WILSON
COLORADO P.E. 0050067

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TWO WORKING DAYS
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UNCC 1-800-922-1987

10333 E. Dry Creek Rd. Englewood, CO 80110 Tel: (720) 482-9526 Fax: (720) 482-9546	Revisions	No.	Date	Appr.	Date
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE BEEBALM AVENUE	SCALE: AS SHOWN	DRAWN BY: JLR	CHECKED BY: JLU	DATE: SEPTEMBER 2017
5	FILE NO: 8130283701				



KEYMAP
N.T.S.
LEGEND



ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBG	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	ST	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

SEE SHEET 3 - AREA UTILITY PLAN FOR SANITARY SERVICE TABLES

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 005006

PROFILE: ALPINE PHLOX LN STA: 9+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A
3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST
QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST
OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED
ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM

BASIS OF BEARINGS:
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\\PROJECTS\HSS RANCH\CAD\ENGINEERING\Sheet Sets\CD'S\F10\Parker Water and Sanitation\Sanitary Plan and Profile\ALPINE PHLOX LANE.DWG, CHRISTOPHER.B, 1/4/2018 4:54 PM



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1-800-922-1987**

SHEET NUMBER 6	DRAWN BY:	JLR	SCALE:	TRAILS AT CROWFOOT		 HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546	No.	Revisions	Date	Date
	CHECKED BY:	JJJ	AS SHOWN	FILING 10 CONSTRUCTION DRAWINGS							
	DATE:	SEPTEMBER 2017	FILE NO:	SANITARY SEWER PLAN AND PROFILE							
			ALPINE PHLOX LANE								

N:\PROJECTS\SSR\BEEBALM TRAIL SANITARY PLAN AND PROFILE\BEEBALM TRAIL DWG. CHRISTOPHER, 14/02/18 4:56 PM



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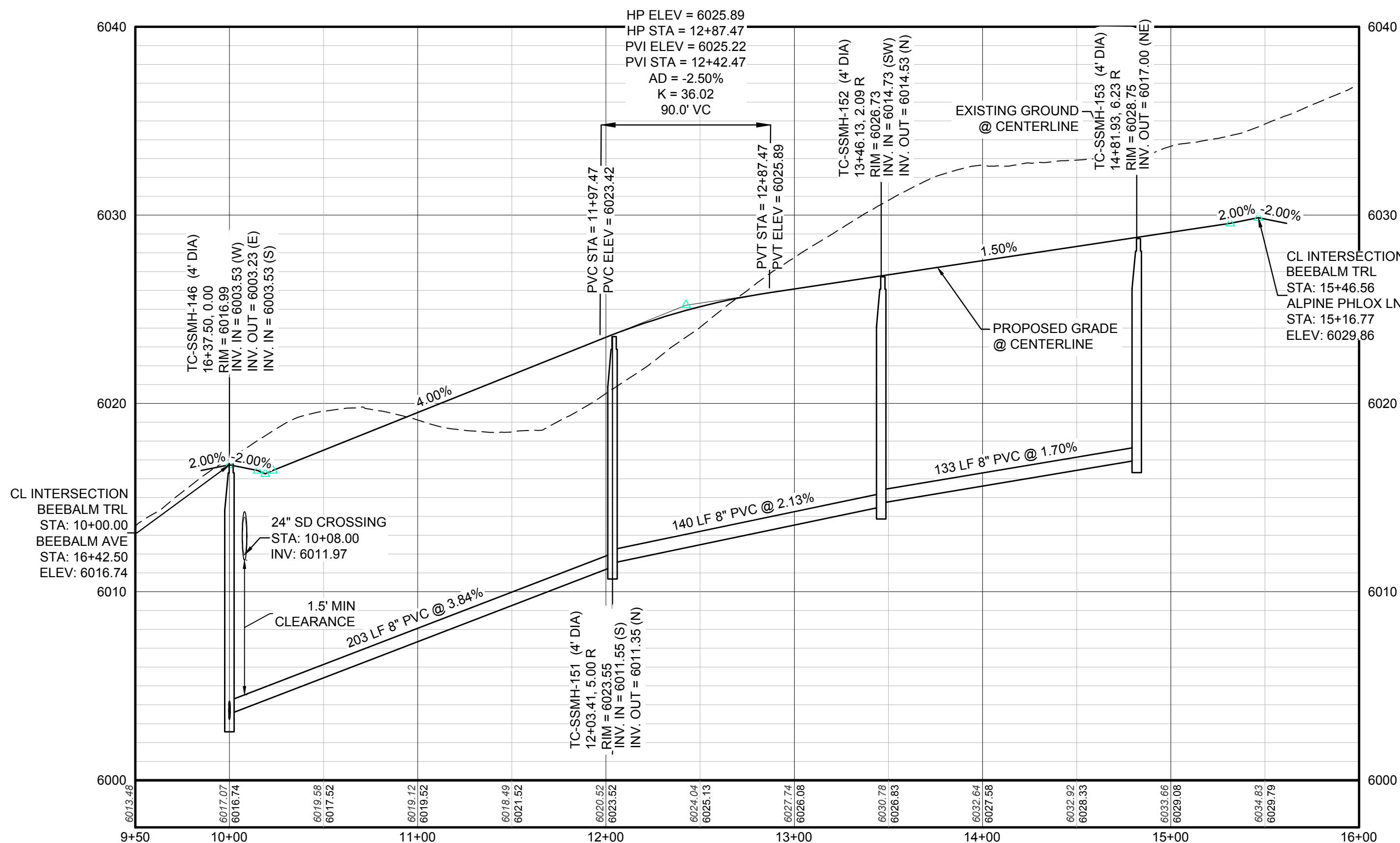
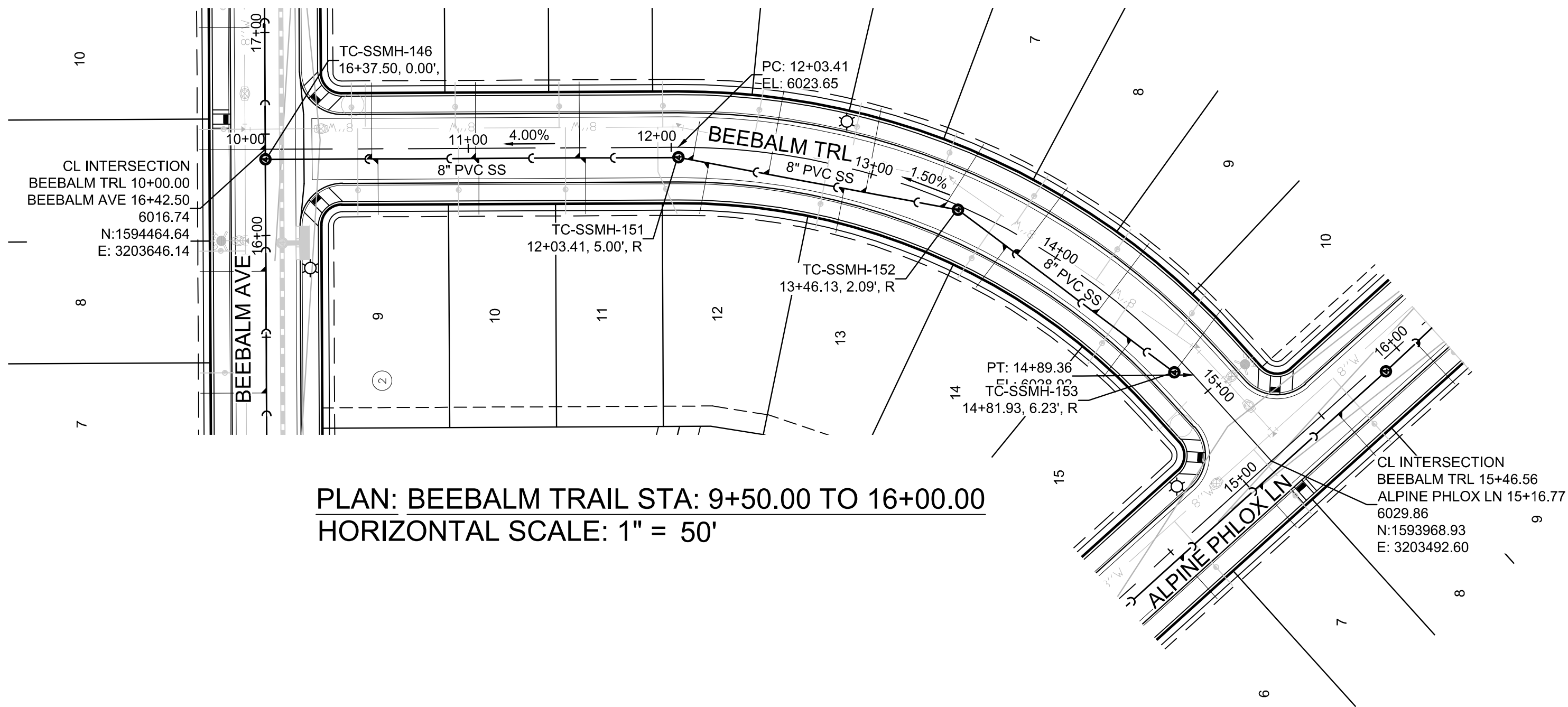
LITUTY NOTIFICATION
CENTER OF COLORADO

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TWO WORKING DAYS

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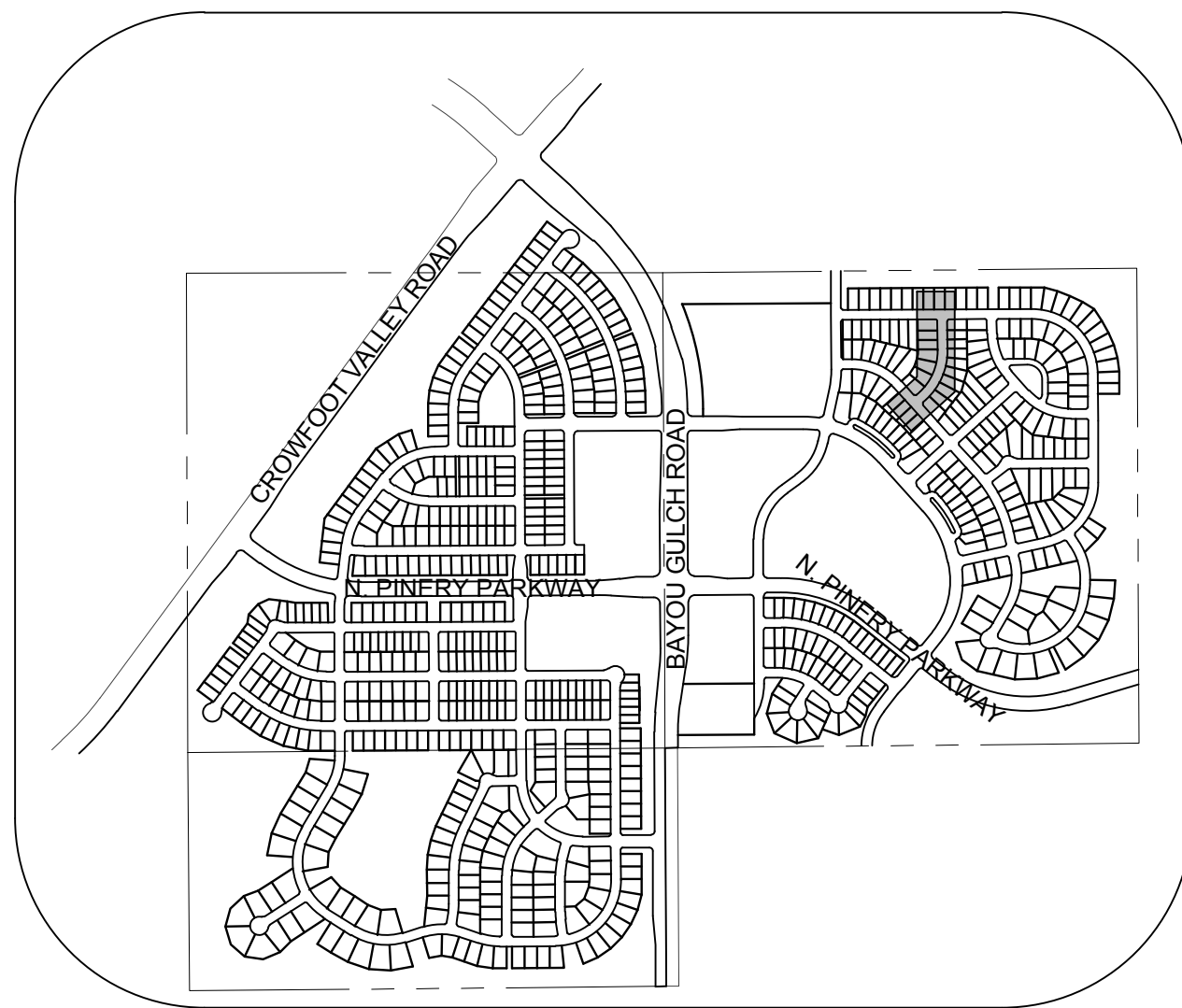
PROFILE: BEEBALM TRAIL STA: 9+50.00 TO 16+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067



KEYMAP
N.T.S.

2

BLOCK NUMBER

6

LOT TYPE

6

LOT NUMBER

⊗

PROPOSED BUTTERFLY VALVE

⌋

PROPOSED CAP WITH END OF LINE BLOWOFF

⌋

PROPOSED REDUCER

⊗

PROPOSED VALVE

⊗

PROPOSED FIRE HYDRANT

⌋

PROPOSED WL FITTING WITH THRUST BLOCK

⌋

PROPOSED FLARED END SECTION

⊗

PROPOSED LOW POINT BLOW-OFF

⊗

PROPOSED AIR VALVE

⊗

FUTURE PHASE VALVE

⊗

FUTURE FIRE HYDRANT

⊗

PROPOSED LIGHT POLE

⌋

PROPOSED SIDEWALK RAMP

10.00

EXISTING ELEVATION

10.00

PROPOSED DESIGN ELEVATION

⊗

PROPOSED STORM DRAIN INLET

⊗

PROPOSED STORM DRAIN MANHOLE

△

PROPOSED RANGE POINT

CENTERLINE

RIGHT-OF-WAY

PROPERTY LINE

EDGE OF PAVEMENT

→

PROPOSED DIRECTION OF FLOW

1.0%

PROPOSED SLOPE & DIRECTION

5615

EXISTING 5' CONTOUR

5616

EXISTING 1' CONTOUR

5620

PROPOSED 5' CONTOUR

5607

PROPOSED 1' CONTOUR

PROPOSED STORM DRAIN

PROPOSED SEWER LINE WITH MANHOLE

PROPOSED SEWER LATERAL

PROPOSED WATER LINE

PROPOSED WATER LATERAL W/ METER

SECTION LINE

FILING BOUNDARY

EXISTING FIBER OPTIC LINE

EXISTING OVERHEAD POWER

EXISTING TELEPHONE LINE

ABBREVIATIONS

AD

ANGLE DIFFERENCE

AV

AIR VAC RELEASE VALVE

BVC

BEGIN VERTICAL CURVE

BVP

BEGIN VERTICAL PROFILE

CBO

CAP WITH BLOW OFF

CRR

CURB RETURN RADIUS

ELEV

ELEVATION

EP

EDGE OF PAVEMENT

EVC

END VERTICAL CURVE

EVP

END VERTICAL PROFILE

FG

FINISHED GROUND

FL

FLOW LINE

GV

GATE VALVE

HA

HYDRANT ASSEMBLY

HCR

HANDICAP CURB RAMP

HP

HIGH POINT

INV

INVERT

K

CURVATURE COEFFICIENT

LF

LINEAR FEET

MH

MANHOLE

N.T.S.

NOT TO SCALE

PVC

POLYVINYL CHLORIDE

PVI

PT. OF VERTICAL INTERSECTION

PVT

POINT OF VERTICAL TANGENT

RCBC

REINFORCED CONCRETE BOX CULVERT

RCP

REINFORCED CONCRETE PIPE

ROW

RIGHT OF WAY

SC

SANITARY CAP

SD

STORM DRAIN

SL

SECTION LINE

SS

SANITARY SEWER

STA

STATION

T.O.P.

TOP OF PIPE

UE

UTILITY EASEMENT

VC

VERTICAL CURVE

WL

WATER LINE

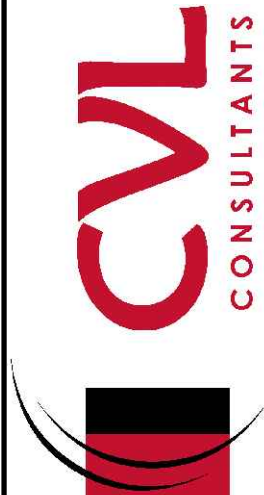
WLC

WATER LINE CONNECTION

WSE

WATER SURFACE ELEVATION

10333 E. Dry Creek Rd.
Suite 100
Englewood, CO 80110
Tel: (720) 482-9526
Fax: (720) 482-9546

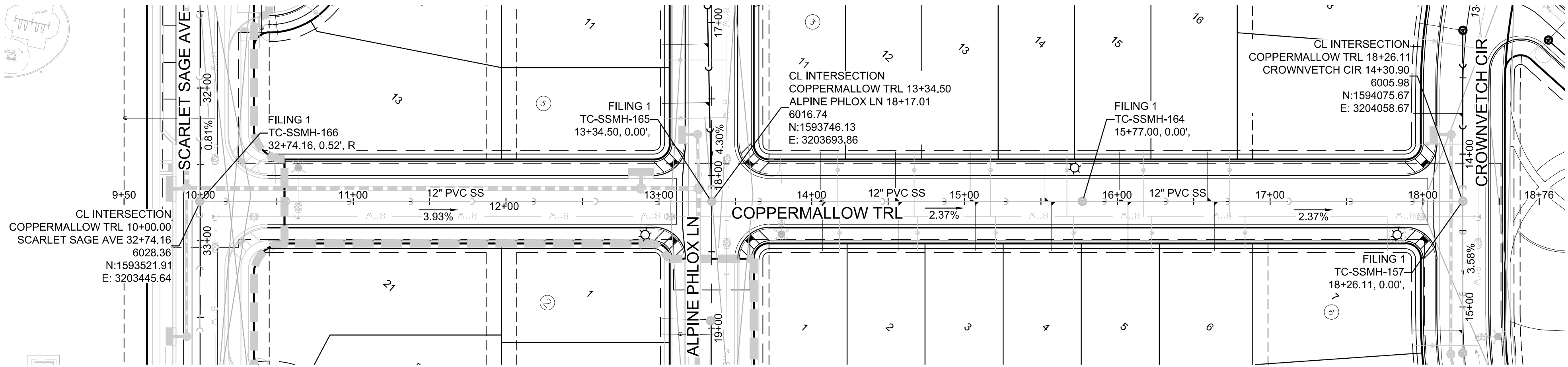


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CENTENNIAL, CO 80112

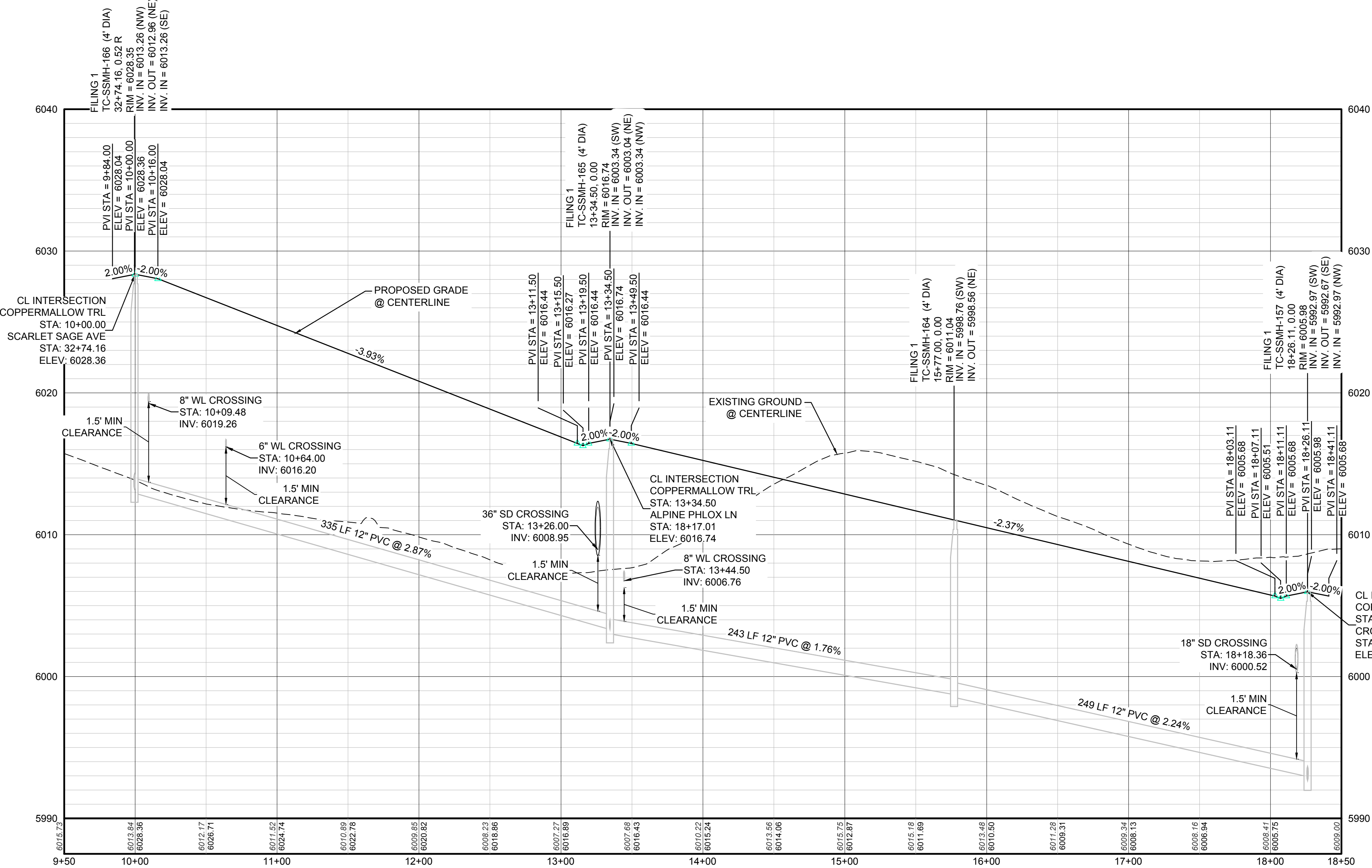
TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
BEEBALM TRAIL

SCALE: AS SHOWN
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: SEPTEMBER 2017
FILE NO: 8130283701

SHEET NUMBER
7

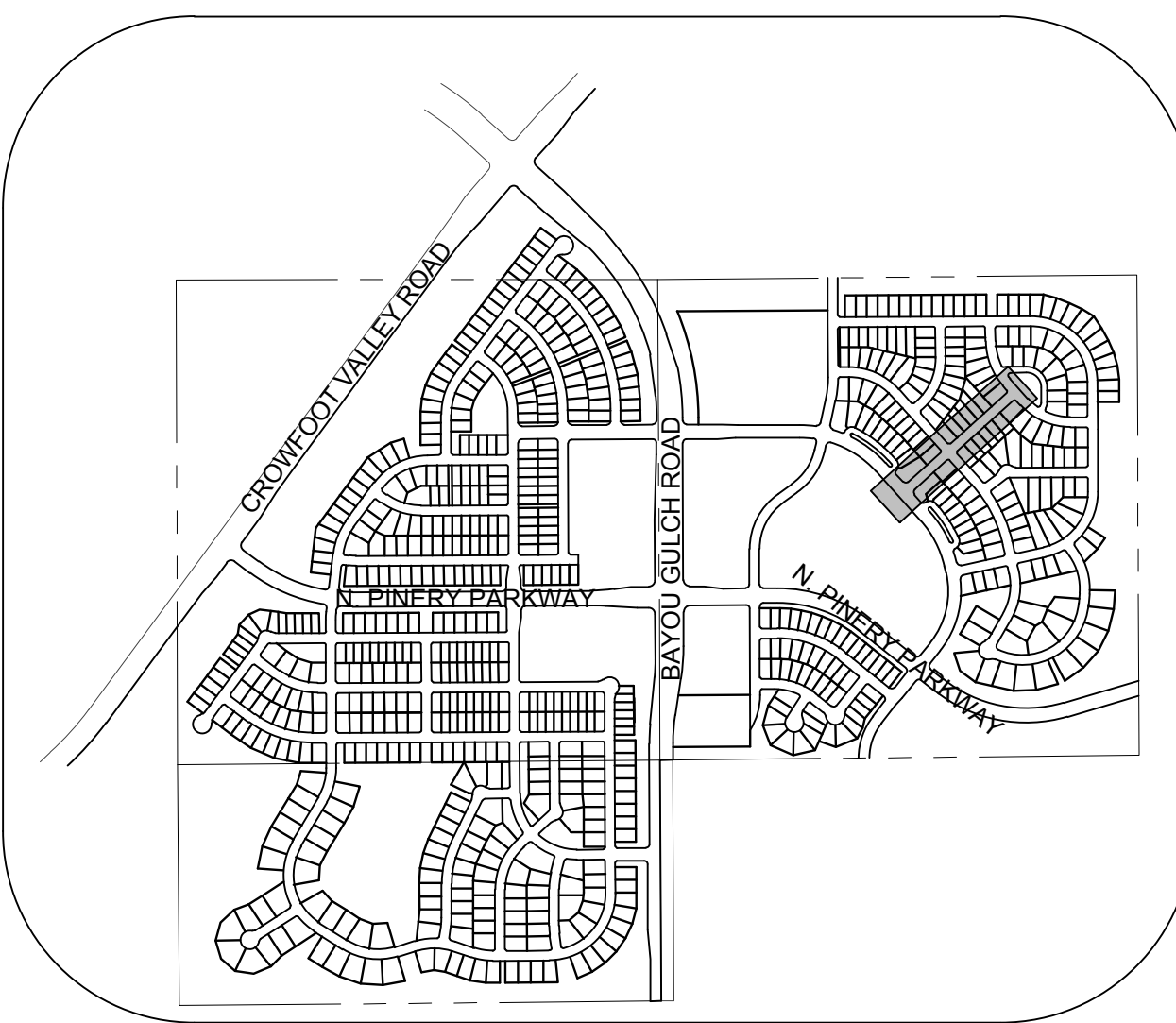


PLAN: COPPERMALLOW TRAIL STA: 9+50.00 TO 18+50.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: COPPERMALLOW TRAIL STA: 9+50.00 TO 18+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

NOTE:
1. SANITARY MAIN INSTALLED WITH FILING 1,
SANITARY SERVICES INSTALLED WITH FILING 10



KEYMAP
N.T.S.
LEGEND

- | | | | |
|-------|---------------------------------------|------|----------------------------------|
| ② | BLOCK NUMBER | △ | PROPOSED RANGE POINT |
| Ⓐ | LOT TYPE | --- | CENTERLINE |
| 6 | LOT NUMBER | --- | RIGHT-OF-WAY |
| ⊗ | PROPOSED BUTTERFLY VALVE | --- | PROPERTY LINE |
| ⌋ | PROPOSED CAP WITH END OF LINE BLOWOFF | --- | EDGE OF PAVEMENT |
| ⌋ | PROPOSED REDUCER | → | PROPOSED DIRECTION OF FLOW |
| ⊗ | PROPOSED VALVE | 1.0% | PROPOSED SLOPE & DIRECTION |
| ⌋ | PROPOSED FIRE HYDRANT | --- | EXISTING 5' CONTOUR |
| ⌋ | PROPOSED WL FITTING WITH THRUST BLOCK | --- | EXISTING 1' CONTOUR |
| ⌋ | PROPOSED FLARED END SECTION | --- | PROPOSED 5' CONTOUR |
| ⊗ | PROPOSED LOW POINT BLOW-OFF | --- | PROPOSED 1' CONTOUR |
| ⊗ | PROPOSED AIR VALVE | --- | PROPOSED STORM DRAIN |
| ⊗ | FUTURE PHASE VALVE | --- | PROPOSED SEWER LINE WITH MANHOLE |
| ⊗ | FUTURE FIRE HYDRANT | --- | PROPOSED SEWER LATERAL |
| ⊗ | PROPOSED LIGHT POLE | --- | PROPOSED WATER LINE |
| ⊗ | PROPOSED SIDEWALK | --- | PROPOSED WATER LATERAL W/ METER |
| ⊗ | PROPOSED SIDEWALK RAMP | --- | SECTION LINE |
| 10.00 | EXISTING ELEVATION | --- | FILING BOUNDARY |
| 10.00 | PROPOSED DESIGN ELEVATION | --- | EXISTING FIBER OPTIC LINE |
| ⊗ | PROPOSED STORM DRAIN INLET | --- | EXISTING OVERHEAD POWER |
| ⊗ | PROPOSED STORM DRAIN MANHOLE | --- | EXISTING TELEPHONE LINE |

- ABBREVIATIONS
- | | | | |
|------|------------------------|--------|---------------------------------|
| AD | ANGLE DIFFERENCE | MH | MANHOLE |
| AV | AIR VAC RELEASE VALVE | N.T.S. | NOT TO SCALE |
| BVC | BEGIN VERTICAL CURVE | PVC | POLYVINYL CHLORIDE |
| BVP | BEGIN VERTICAL PROFILE | PVI | PT. OF VERTICAL INTERSECTION |
| CBO | CAP WITH BLOW OFF | PVT | POINT OF VERTICAL TANGENT |
| CRR | CURB RETURN RADIUS | RCBC | REINFORCED CONCRETE BOX CULVERT |
| ELEV | ELEVATION | RCP | REINFORCED CONCRETE PIPE |
| EP | EDGE OF PAVEMENT | ROW | RIGHT OF WAY |
| EVC | END VERTICAL CURVE | SC | SANITARY CAP |
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| FG | FINISHED GROUND | SL | SECTION LINE |
| FL | FLOW LINE | SS | SANITARY SEWER |
| GV | GATE VALVE | STA | STATION |
| HA | HYDRANT ASSEMBLY | T.O.P. | TOP OF PIPE |
| HCR | HANDICAP CURB RAMP | UE | UTILITY EASEMENT |
| HP | HIGH POINT | VC | VERTICAL CURVE |
| INV | INVERT | WL | WATER LINE |
| K | CURVATURE COEFFICIENT | WLC | WATER LINE CONNECTION |
| LF | LINEAR FEET | WSE | WATER SURFACE ELEVATION |

SEE SHEET 3 - AREA UTILITY PLAN FOR SANITARY SERVICE TABLES.

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BENCHMARK
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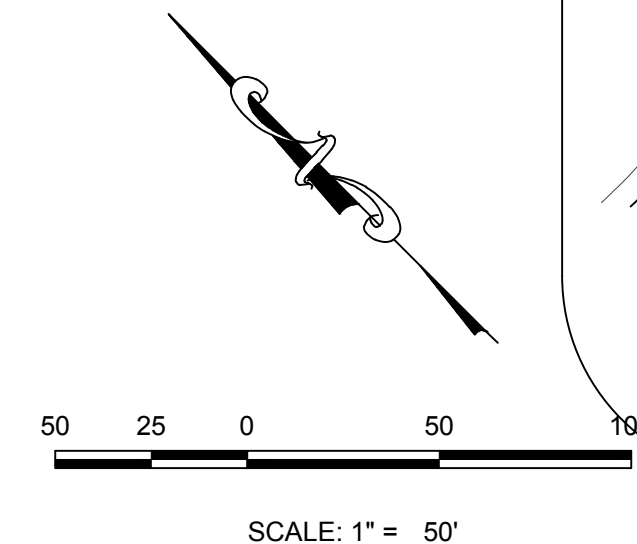
SHEET NUMBER	DRAWN BY:	SCALE:	AS SHOWN	FILE NO:	DATE:	Revisions	No.	Date	Init.	Appr.	Date
8	JLR	AS SHOWN	AS SHOWN	8130283701	SEPTEMBER 2017						

10333 E. Dry Creek Rd.
Suite 110
Englewood, CO 80150
Tel: (720) 482-9526
Fax: (720) 482-9546

CVL
CONSULTANTS

HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
COPPERMALLOW TRAIL



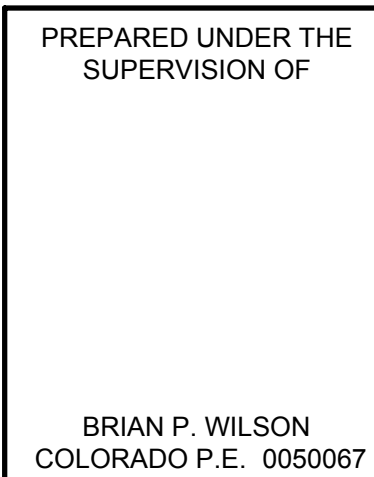
KEYMAP
N.T.S.
LEGEND

	BLOCK NUMBER		PROPOSED RANGE POINT
	LOT TYPE	— — — — —	CENTERLINE
6	LOT NUMBER	=====	RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE	=====	PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF	=====	EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE	<u>1.0%</u>	PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	=====	EXISTING 5' CONTOUR
	PROPOSED W/L FITTING WITH THRUST BLOCK	=====	EXISTING 1' CONTOUR
	PROPOSED FLARED END SECTION	=====	PROPOSED 5' CONTOUR
	PROPOSED LOW POINT BLOW-OFF	=====	PROPOSED 1' CONTOUR
	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	FUTURE PHASE VALVE		PROPOSED SEWER LINE WITH MANHOLE
	FUTURE FIRE HYDRANT		PROPOSED SEWER LATERAL
	PROPOSED LIGHT POLE	=====	PROPOSED WATER LINE
=====	PROPOSED SIDEWALK		PROPOSED WATER LATERAL W/ METER
	PROPOSED SIDEWALK RAMP	— — — — —	SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	— FO —	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	— OH —	EXISTING OVERHEAD POWER
	PROPOSED STORM DRAIN MANHOLE	— TEL —	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVF	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

SEE SHEET 3 - AREA UTILITY PLAN FOR SANITARY SERVICE TABLES.



PROFILE: CROWN VETCH CIR STA: 9+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY
2 1/4" ALUMINUM

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A
3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST
QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST
OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED
ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9
BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID
SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT
THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2"
ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR
SOUTH 00°15'06" EAST, 2648.70 FEET.

\\PROJECTS\HSS RANCH\CAD\ENGINEERING\SHEET SETS\CD'S\F10\PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\CROWN\ETCH CIRCLE.DWG, CHRISTOPHERB, 1/4/2018 5:05 PM



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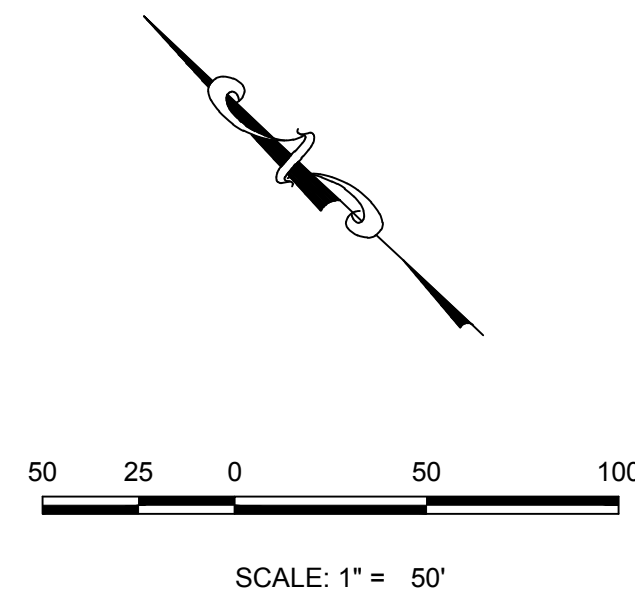
CVL
CONSULTANTS

HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
BUILDING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
CROWN/VETCH CIRCLE

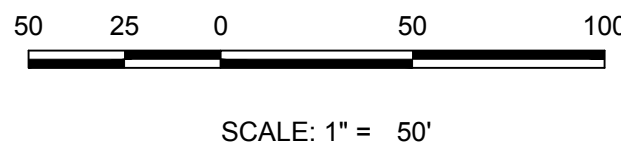
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CHECKED BY: JJJ	FILE NO:

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50 25 0 50 100

SCALE: 1" = 50'

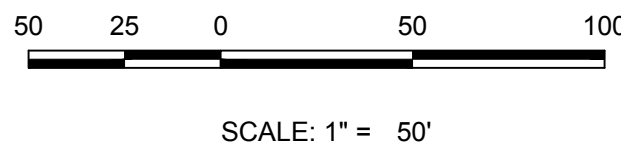


50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'



50 25 0 50 100

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SCALE: 1" = 50'

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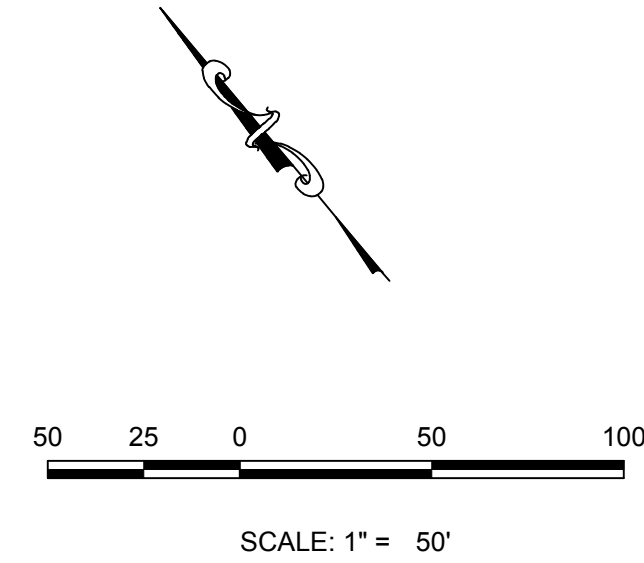
SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

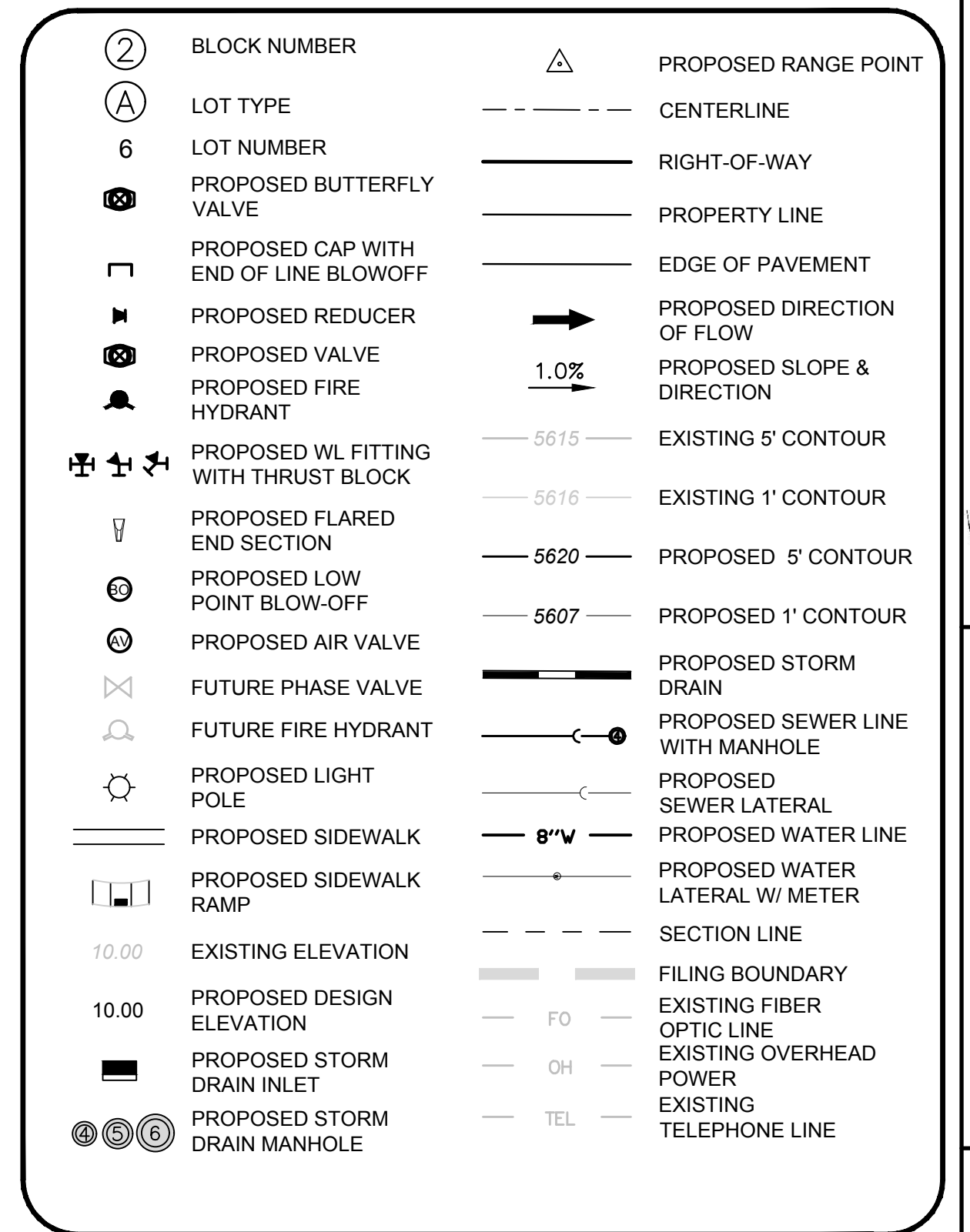
50 25 0 50 100

SCALE: 1" = 50'



The map illustrates the layout of the N. Pinery Parkway area. Key streets shown include Crowfoot Valley Road, Bayou Gulch Road, N. Pinery Parkway, and N. Pinery Parkway. The map also depicts various residential developments, including a large complex labeled 'N. PINERY PARKWAY' and another labeled 'N. PINERY PARKWAY'.

PLAN: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL SCALE: 1" = 50'



AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CB	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

PROFILE: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

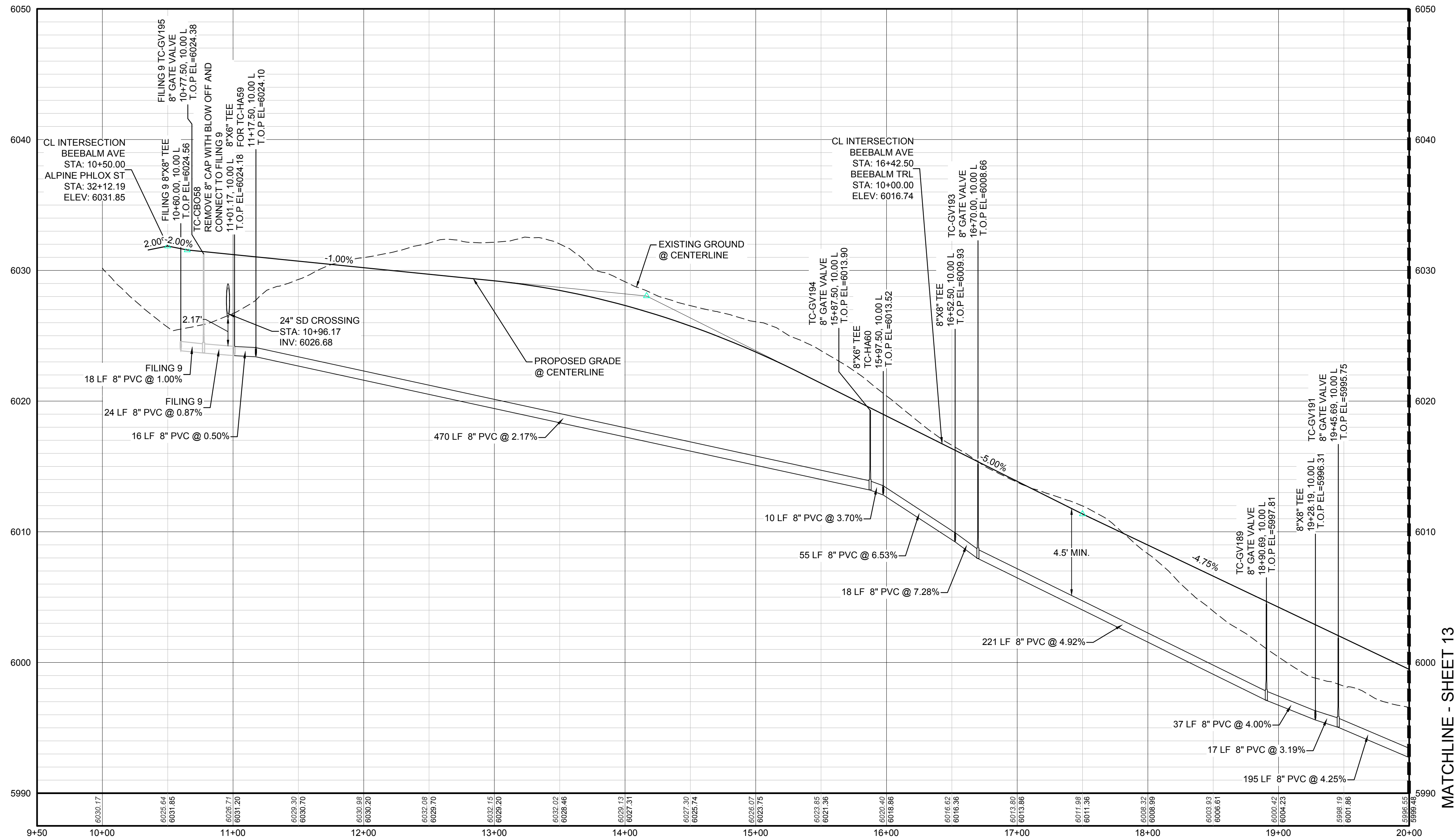
BRIAN P. WILSON
COLORADO P.E. 0050067

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N:\PROJECTS\BEEBALM AVE\BEEBALM AVE WATER Dwg.dwg 14/02/18 5:16 PM



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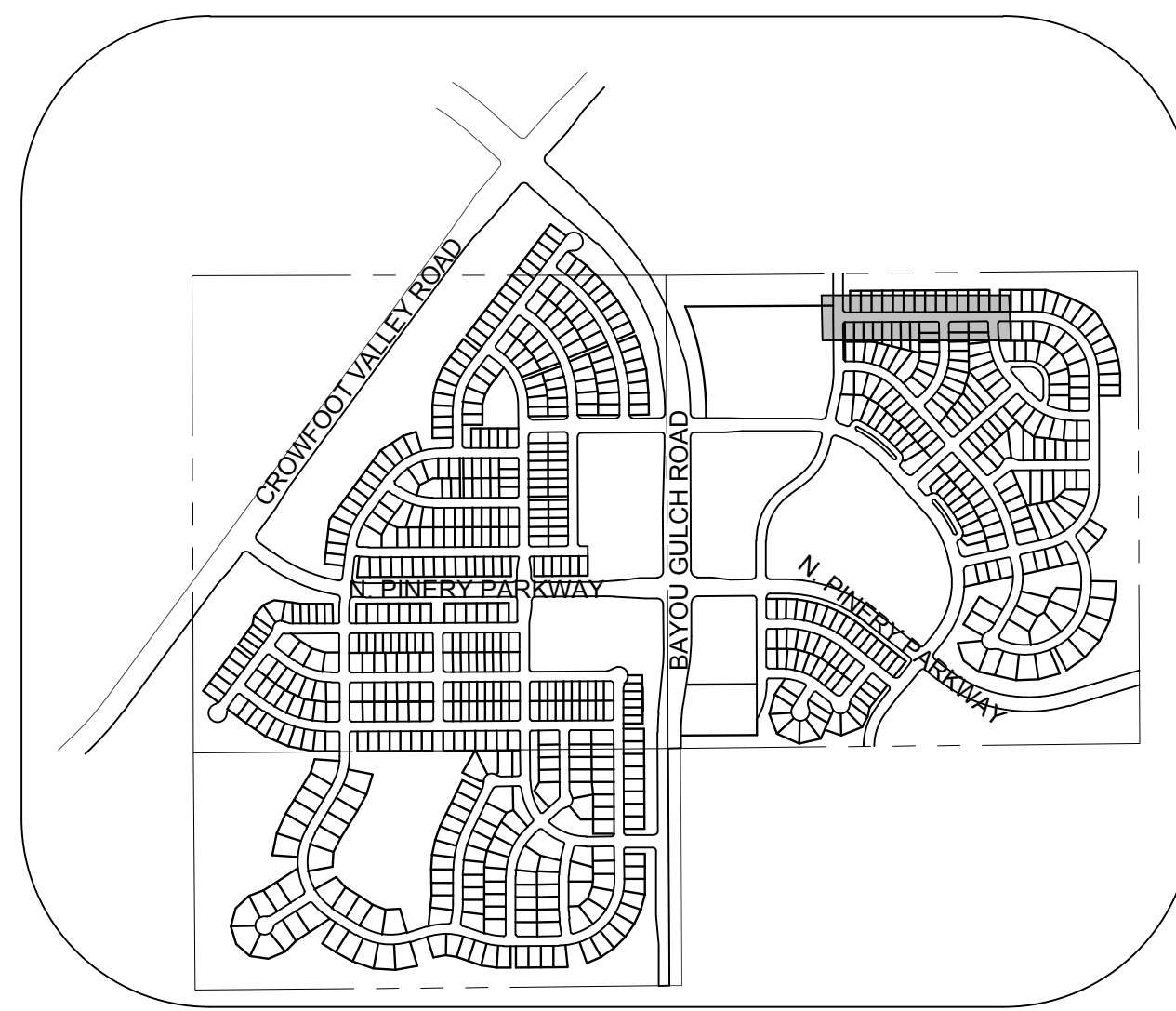
PROFILE: BEEBALM AVE STA: 9+50.00 TO 20+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067



KEYMAP
N.T.S.
LEGEND

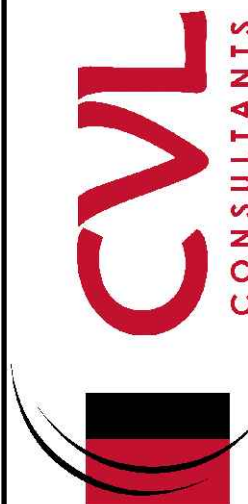
2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊕	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⌋	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⌋	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊕	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊕	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⊕	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⊕	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊕	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊕	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊕	FUTURE PHASE VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊕	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LATERAL
⊕	PROPOSED LIGHT POLE	---	PROPOSED WATER LINE
⊕	PROPOSED SIDEWALK	---	PROPOSED WATER LATERAL W/ METER
⊕	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
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⊕	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD POWER
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	ROBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
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INV	INVERT	WL	WATER LINE
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

SEE SHEET 3 - AREA UTILITY PLAN FOR WATER SERVICE TABLES.

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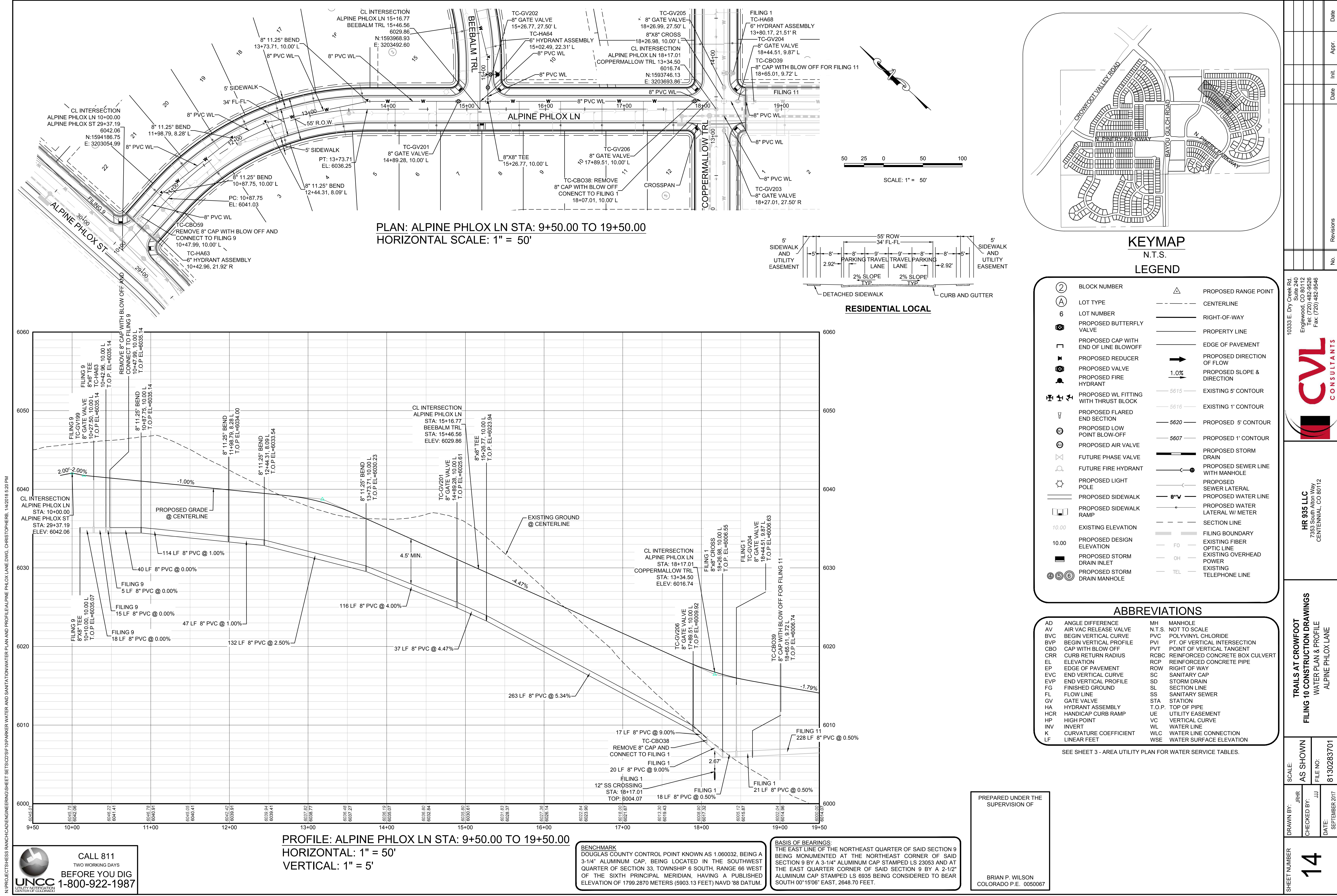


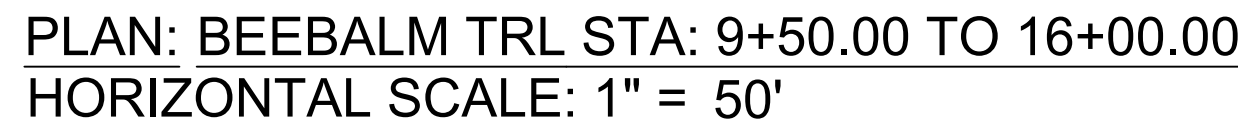
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TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
WATER PLAN AND PROFILE
BEEBALM AVENUE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJ
DATE: SEPTEMBER 2017

SHEET NUMBER
12

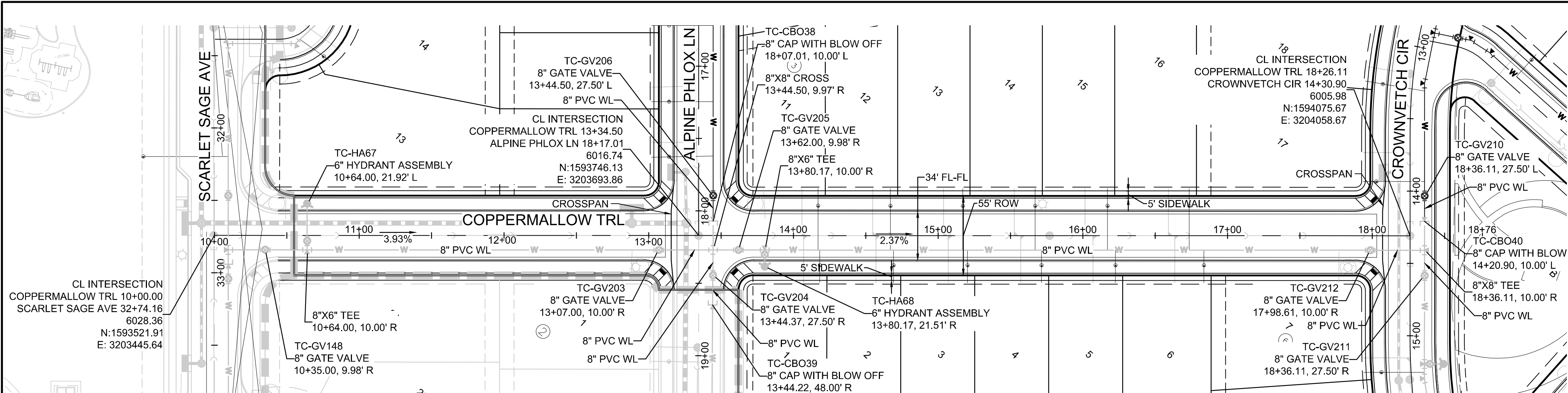




ABBREVIATIONS

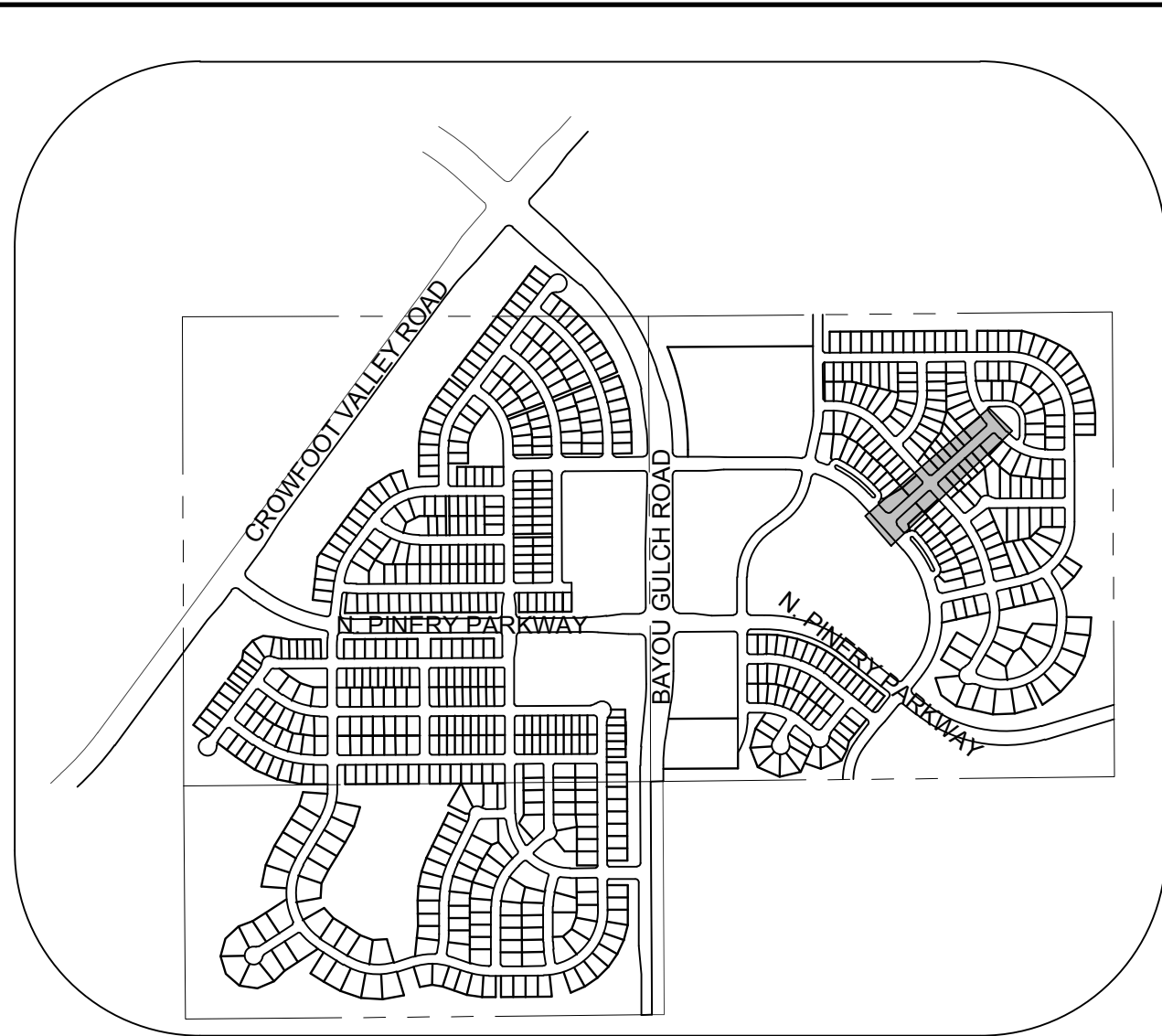
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

BRIAN P. WILSON
COLORADO P.E. 0050067



PLAN: COPPERMALLOW TRL STA: 9+50.00 TO 19+00.00
HORIZONTAL SCALE: 1" = 50'

NOTE:
1. WATERLINE INSTALLED WITH FILING 1 WATER SERVICES TO BE INSTALLED WITH FILING 10
2. SEE SHEET 3 - AREA UTILITY PLAN FOR WATER SERVICE TABLES.

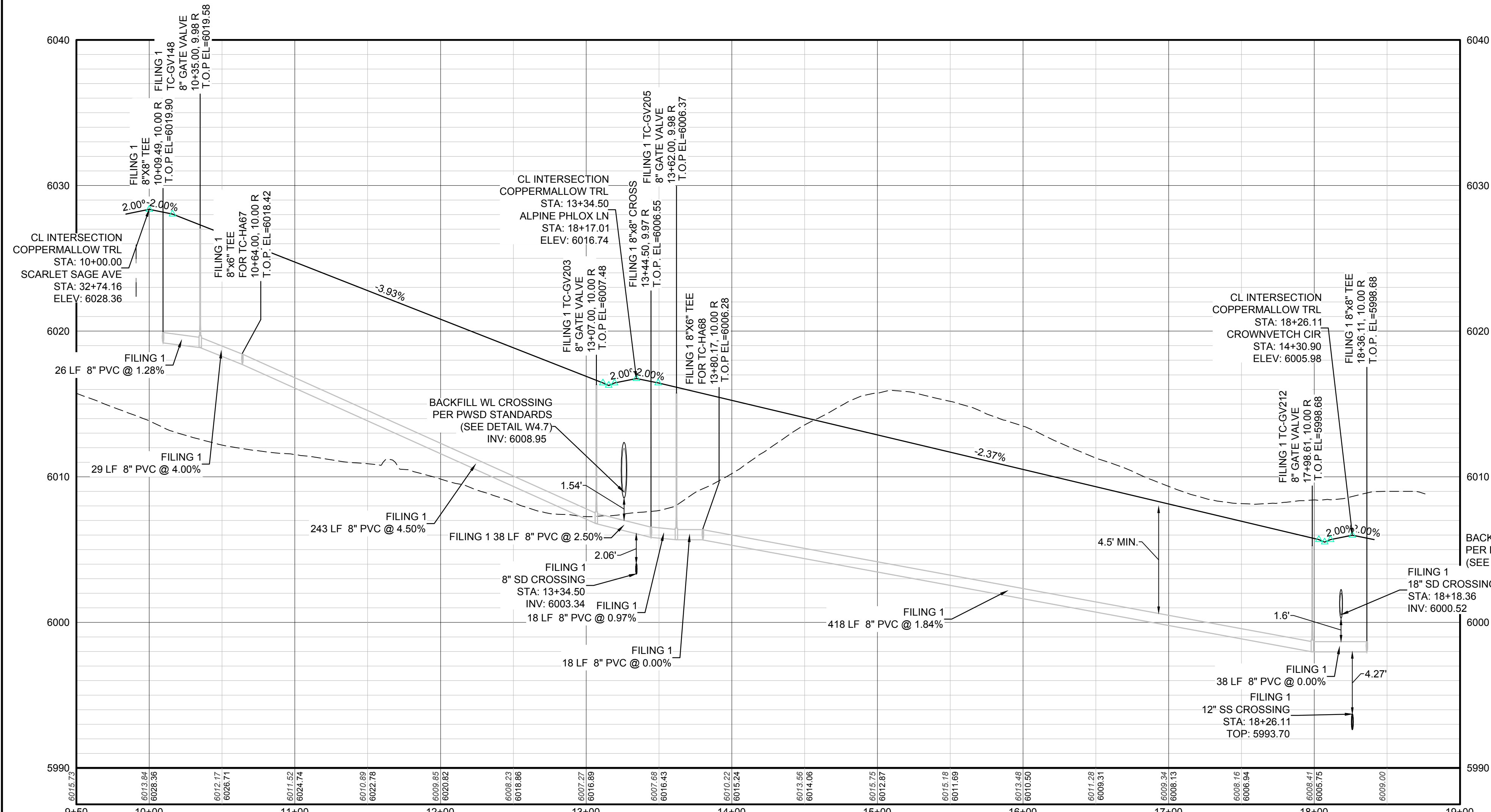
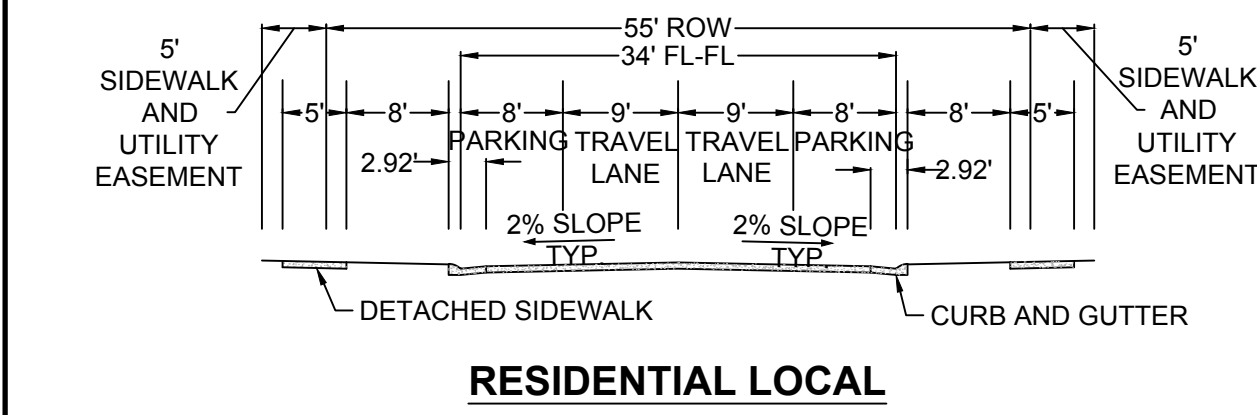


KEYMAP
N.T.S.
LEGEND

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A	LOT TYPE	---	CENTERLINE
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⊗	PROPOSED LIGHT POLE	---	PROPOSED WATER LINE
⊗	PROPOSED SIDEWALK RAMP	---	PROPOSED WATER LATERAL W/ METER
10.00	EXISTING ELEVATION	---	SECTION LINE
10.00	PROPOSED DESIGN ELEVATION	---	FILING BOUNDARY
⊗	PROPOSED STORM DRAIN INLET	---	EXISTING FIBER OPTIC LINE
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⊗		---	EXISTING TELEPHONE LINE

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PROFILE: COPPERMALLOW TRL STA: 9+50.00 TO 19+00.00
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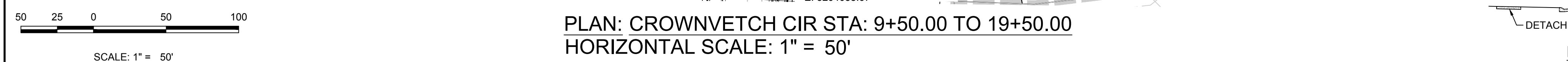
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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

SHEET NUMBER	DATE:	SEPTEMBER 2017	Revisions	No.	Date	Init.	Appr.	Date
	CHECKED BY:	JU						
	DRAWN BY:	RHR						
	SCALE:	AS SHOWN						
FILE NO:		8130283701		TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE COPPERMALLOW TRAIL				
7353 South Alton Way CENTENNIAL, CO 80112		HR 935 LLC		10333 E. Dry Creek Rd. Suite 110 Englewood, CO 80110 Tel: (720) 482-9526 Fax: (720) 482-9546				
CONSULTANTS		CVL						



5' SIDEWALK AND UTILITY EASEMENT

55' ROW

34' FL-FL

5' SIDEWALK AND UTILITY EASEMENT

8' 8' 9' 9' 8' 8' 8' 5'

2.92'

PARKING LANE

TRAVEL LANE

TRAVEL LANE

PARKING LANE

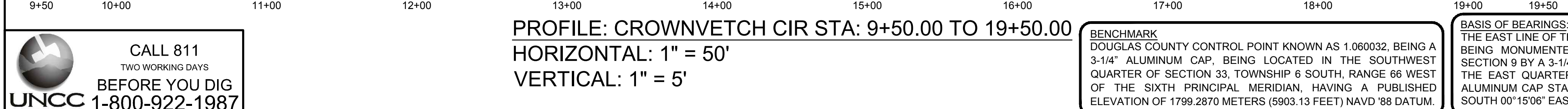
2% SLOPE TYP

2% SLOPE TYP

DETACHED SIDEWALK

CURB AND GUTTER

RESIDENTIAL LOCAL



BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A
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COLORADO P.E. 0050067



- | ABBREVIATIONS | | | |
|---------------|------------------------|--------|---------------------------------|
| AD | ANGLE DIFFERENCE | MH | MANHOLE |
| AV | AIR VAC RELEASE VALVE | N.T.S. | NOT TO SCALE |
| BVC | BEGIN VERTICAL CURVE | PVC | POLYVINYL CHLORIDE |
| BVP | BEGIN VERTICAL PROFILE | PVI | PT. OF VERTICAL INTERSECTION |
| CBO | CAP WITH BLOW OFF | PVT | POINT OF VERTICAL TANGENT |
| CRR | CURB RETURN RADIUS | RCCB | REINFORCED CONCRETE BOX CULVERT |
| EL | ELEVATION | RCP | REINFORCED CONCRETE PIPE |
| EP | EDGE OF PAVEMENT | ROW | RIGHT OF WAY |
| EVC | END VERTICAL CURVE | SC | SANITARY CAP |
| EVF | END VERTICAL PROFILE | SD | STORM DRAIN |
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| GV | GATE VALVE | SS | SANITARY SEWER |
| HA | HYDRANT ASSEMBLY | STA | STATION |
| HCR | HANDICAP CURB RAMP | T.O.P. | TOP OF PIPE |
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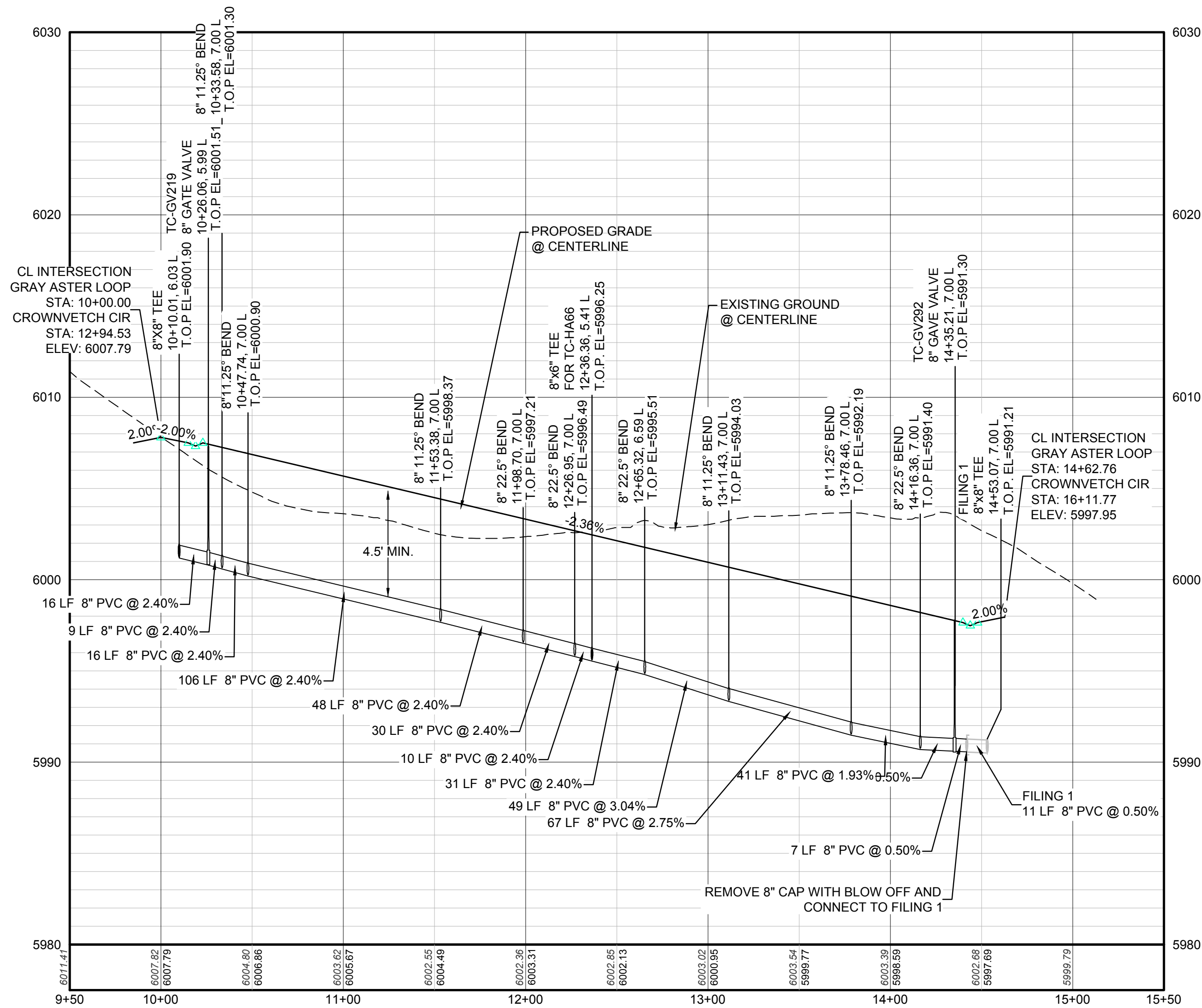
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UTILITY NOTIFICATION
CENTER OF COLORADO



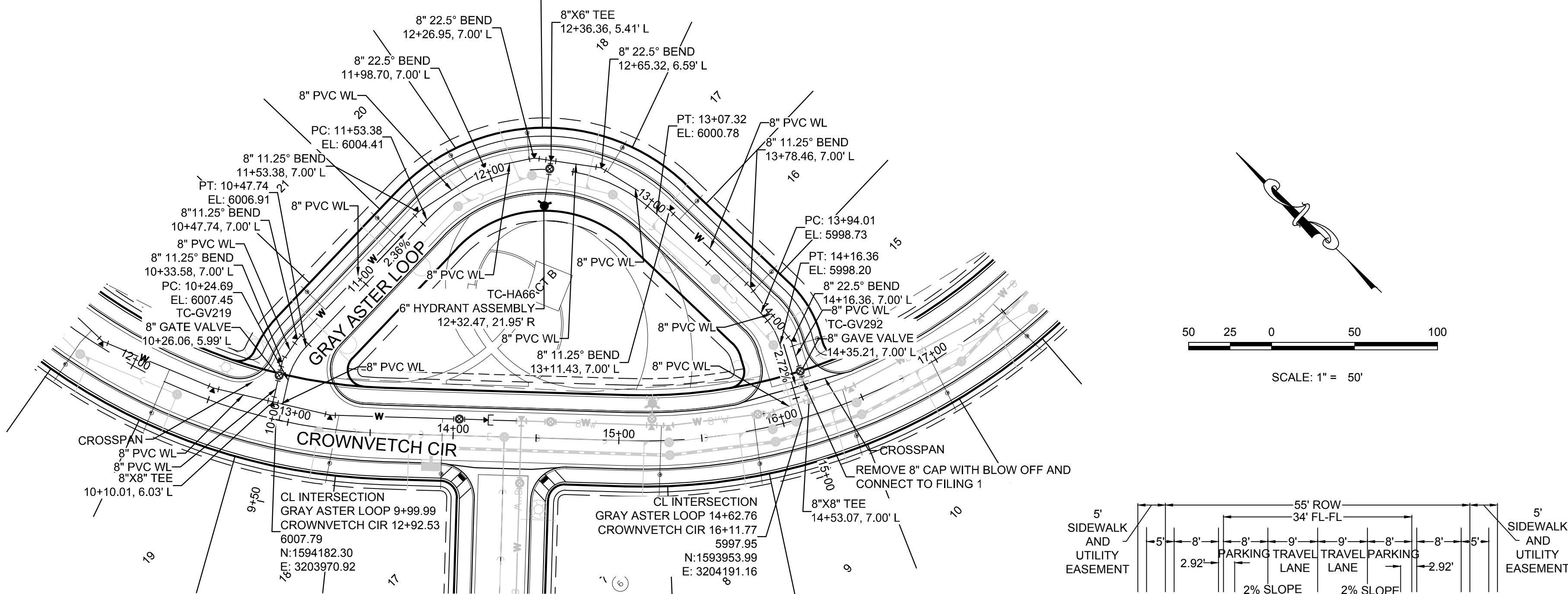
PROFILE: GRAY ASTER LOOP STA: 9+50.00 TO 15+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

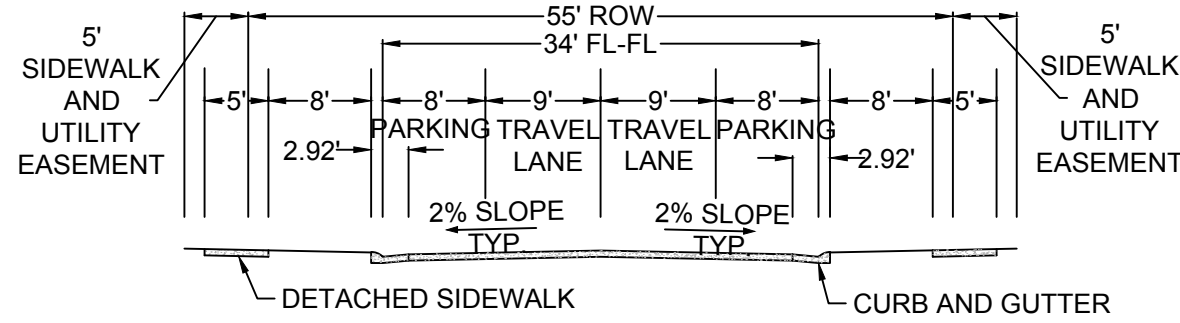
BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

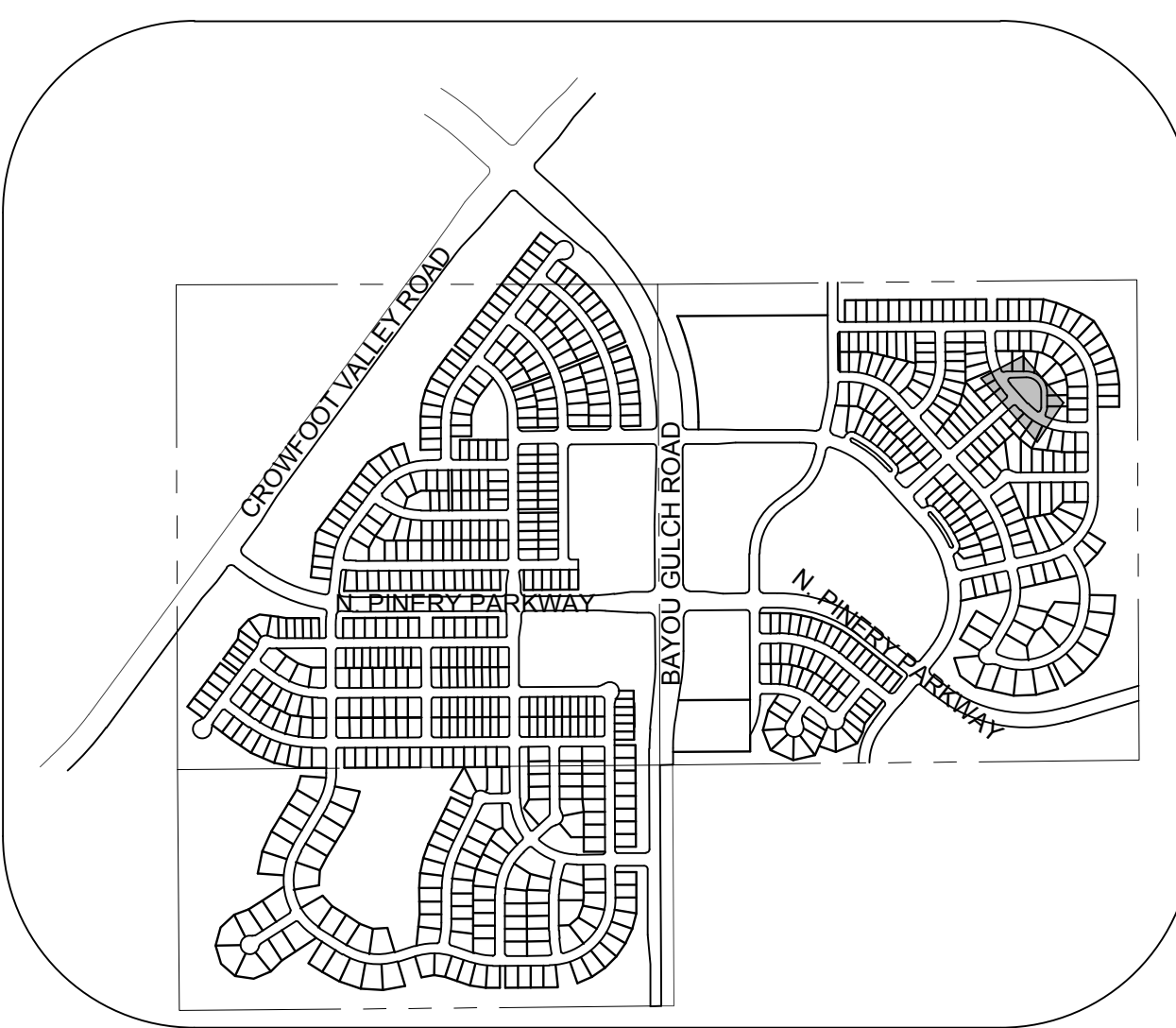
BRIAN P. WILSON
COLORADO P.E. 0050067



PLAN: GRAY ASTER LOOP STA: 9+50.00 TO 15+50.00
HORIZONTAL SCALE: 1" = 50'



RESIDENTIAL LOCAL



KEYMAP
N.T.S.
LEGEND

2 BLOCK NUMBER

A LOT TYPE

6 LOT NUMBER

PROPOSED BUTTERFLY VALVE

PROPOSED CAP WITH END OF LINE BLOWOFF

PROPOSED REDUCER

PROPOSED VALVE

PROPOSED FIRE HYDRANT

PROPOSED WL FITTING WITH THRUST BLOCK

PROPOSED FLARED END SECTION

PROPOSED LOW POINT BLOW-OFF

PROPOSED AIR VALVE

FUTURE PHASE VALVE

FUTURE FIRE HYDRANT

PROPOSED LIGHT POLE

PROPOSED SIDEWALK RAMP

EXISTING ELEVATION

PROPOSED DESIGN ELEVATION

PROPOSED STORM DRAIN INLET

PROPOSED STORM DRAIN MANHOLE

PROPOSED RANGE POINT

CENTERLINE

RIGHT-OF-WAY

PROPERTY LINE

EDGE OF PAVEMENT

PROPOSED DIRECTION OF FLOW

PROPOSED SLOPE & DIRECTION

EXISTING 5' CONTOUR

EXISTING 1' CONTOUR

PROPOSED 5' CONTOUR

PROPOSED 1' CONTOUR

PROPOSED STORM DRAIN

PROPOSED SEWER LINE WITH MANHOLE

PROPOSED SEWER LATERAL

PROPOSED WATER LINE

PROPOSED WATER LATERAL W/ METER

SECTION LINE

FILING BOUNDARY

EXISTING FIBER

EXISTING OVERHEAD POWER

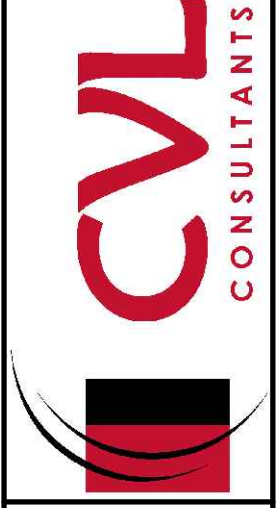
EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
ELEV	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EVC	END VERTICAL CURVE	SC	SANITARY CAP
EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSC	WATER SURFACE ELEVATION

1. SEE SHEET 3 - AREA UTILITY PLAN FOR WATER SERVICE TABLES.

10333 E. Dry Creek Rd.
Suite 110
Englewood, CO 80150
Tel: (720) 482-9526
Fax: (720) 482-9548



HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
GRAY ASTER LOOP

DRAWN BY: RHR
CHECKED BY: JJ
DATE: SEPTEMBER 2017
SCALE: AS SHOWN
FILE NO: 8130283701

SHEET NUMBER
18

N:\PROJECTS\SSR\BANCROFT\ENGINEERING\SSR\BANCROFT\WATER AND SANITATION\WATER PLAN AND PROFILE\SCARLET SAGE AVENUE AL DVC, CHRISTOPHER, 14/2018 5:38 PM



UNCC

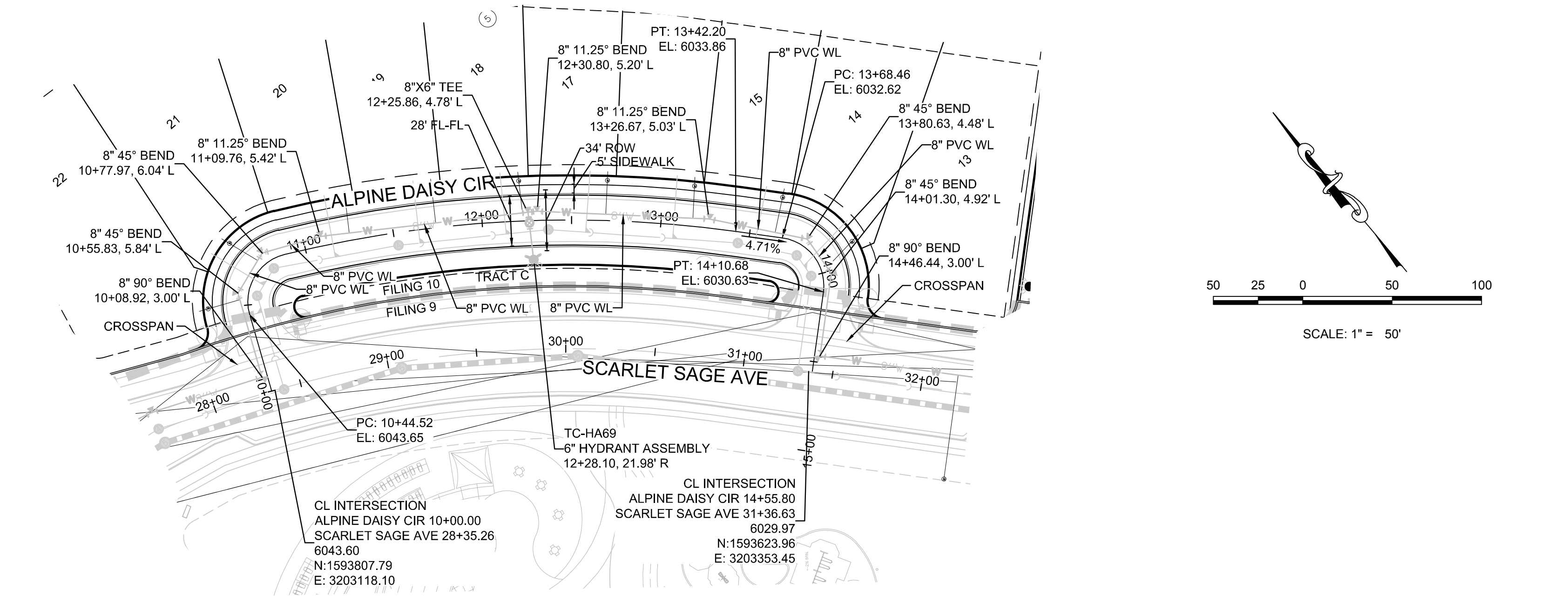
LITUTY NOTIFICATION CENTER OF COLORADO

CALL 811

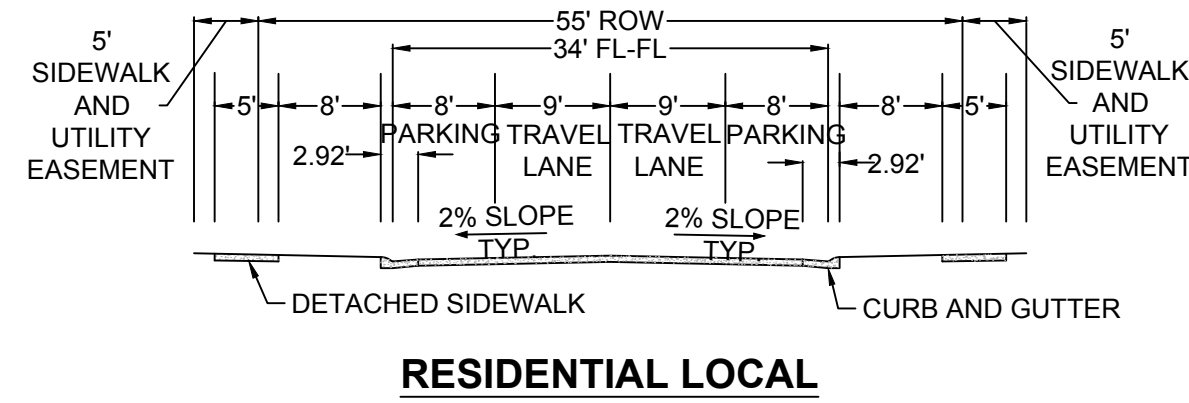
TWO WORKING DAYS

BEFORE YOU DIG

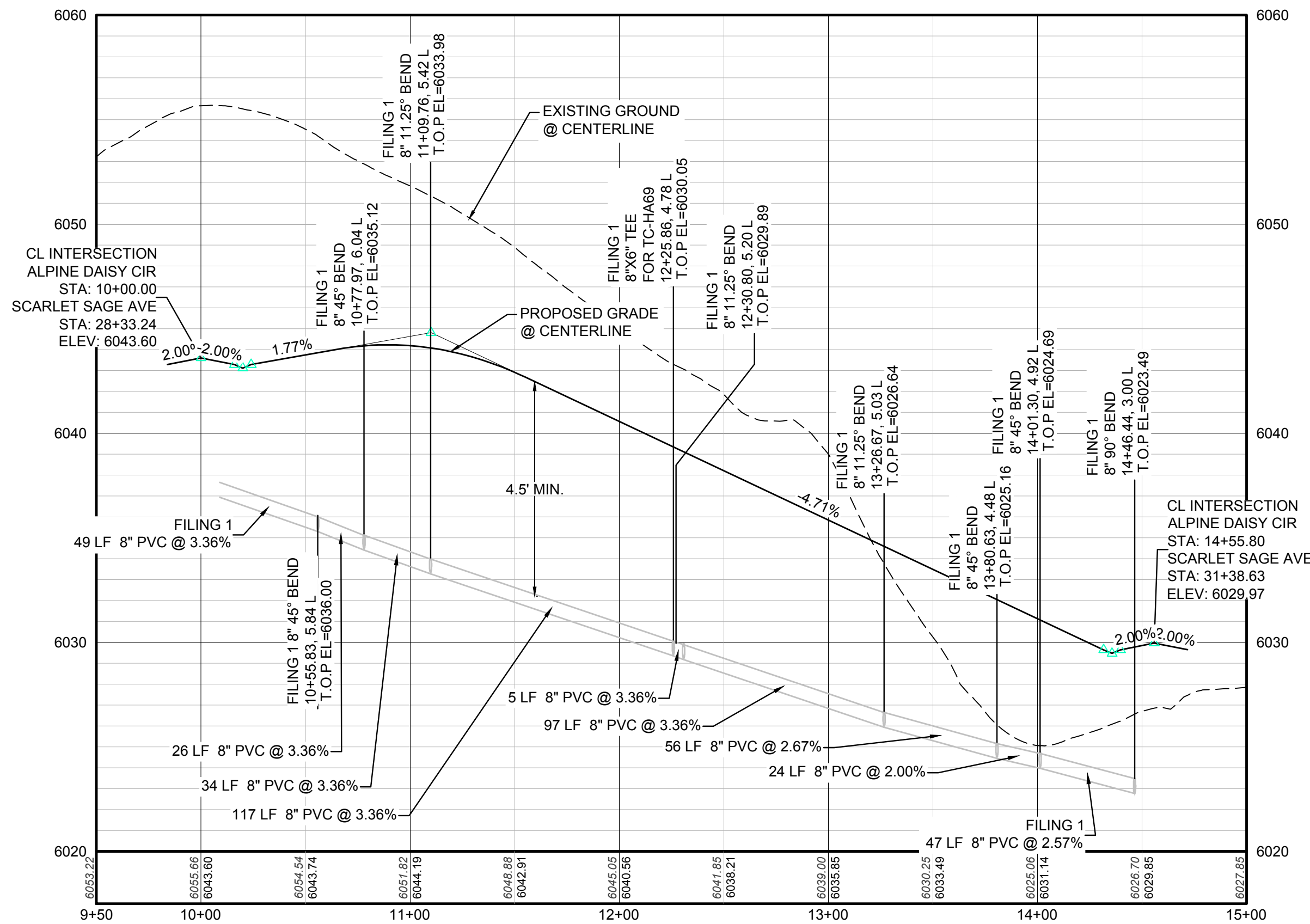
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PLAN: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL SCALE: 1" = 50'



RESIDENTIAL LOCAL



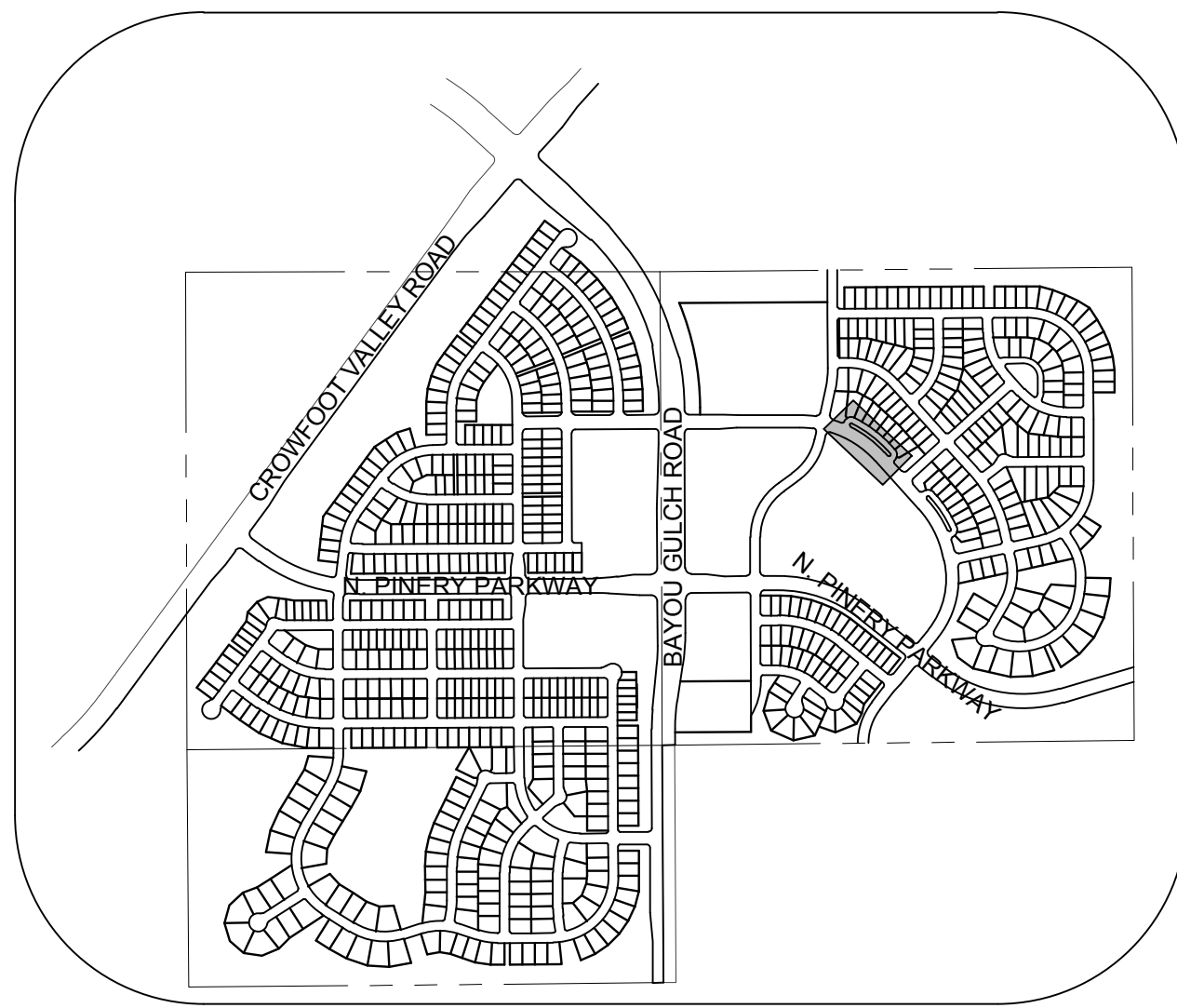
PROFILE: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
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BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067



KEYMAP
N.T.S.
LEGEND

2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊗	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⌋	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⌋	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊗	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⌋	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⌋	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⌋	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊗	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊗	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊗	FUTURE PHASE VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊗	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LATERAL
⊗	PROPOSED LIGHT POLE	---	PROPOSED WATER LINE
⊗	PROPOSED SIDEWALK	---	PROPOSED WATER LATERAL W/ METER
⊗	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER OPTIC LINE
⊗	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD POWER
⊗	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	MH	MANHOLE
AV	AIR VAC RELEASE VALVE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
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CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
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FL	FLOW LINE	SS	SANITARY SEWER
GV	GATE VALVE	STA	STATION
HA	HYDRANT ASSEMBLY	T.O.P.	TOP OF PIPE
HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

1. SEE SHEET 3 - AREA UTILITY PLAN FOR WATER SERVICE TABLES.

10333 E. Dry Creek Rd.
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Tel: (720) 482-9526
Fax: (720) 482-9546



HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
ALPINE DAISY CIRCLE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJ
DATE: SEPTEMBER 2017

SHEET NUMBER
19

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 BUILDING ADDRESSES OR LOT AND BLOCK NUMBERS BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
7. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION UNLESS COORDINATED WITH DISTRICT INSPECTOR.

INSTALLATION NOTES:

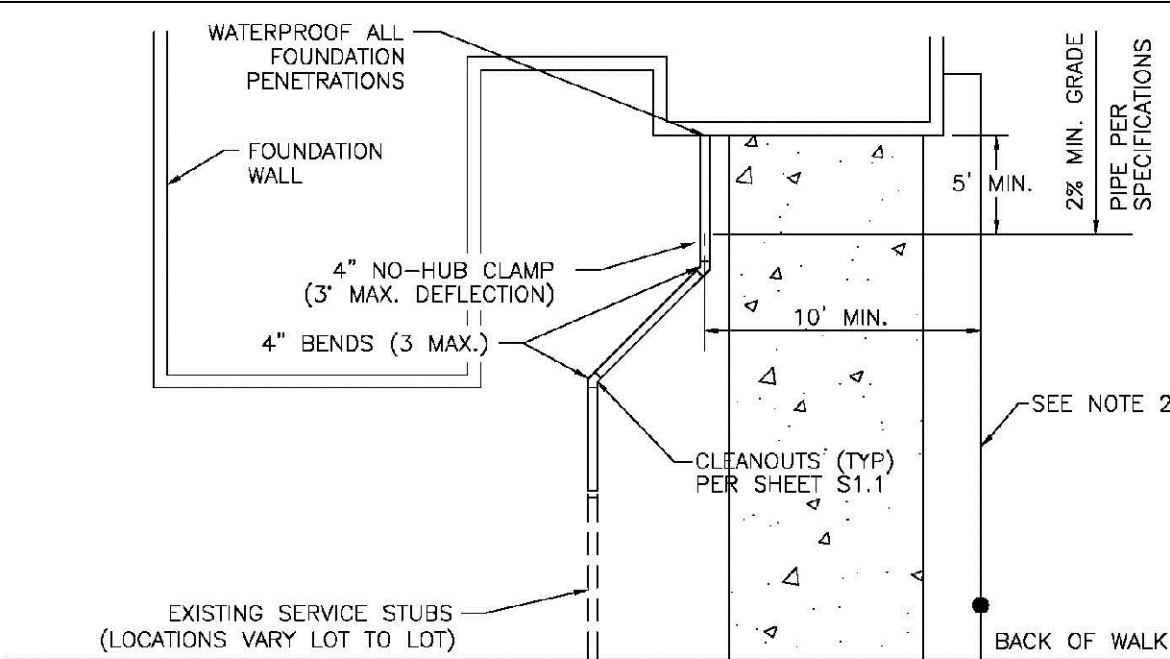
SEWER

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 PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SEWER SERVICE
"V" FOR WATER SERVICES

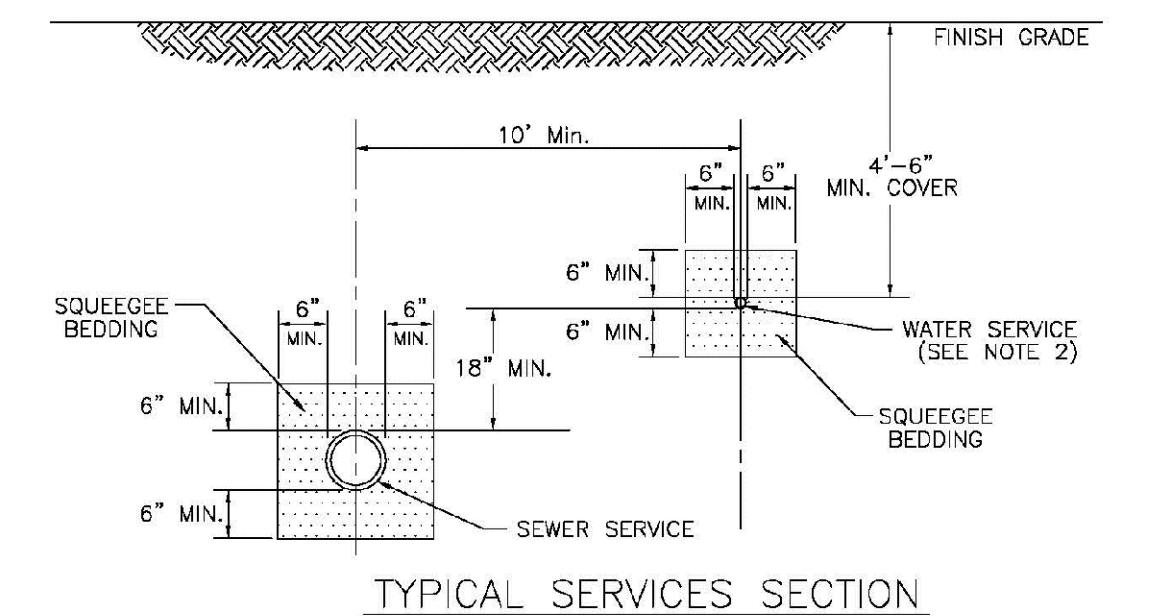
PARKER WATER & SANITATION DISTRICT	
DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	01/02 10/16
DIRECTOR OF ENGINEERING	1/08 1/16

2016 REVISION

SHEET 51.1



TYPICAL SERVICES PLAN VIEW

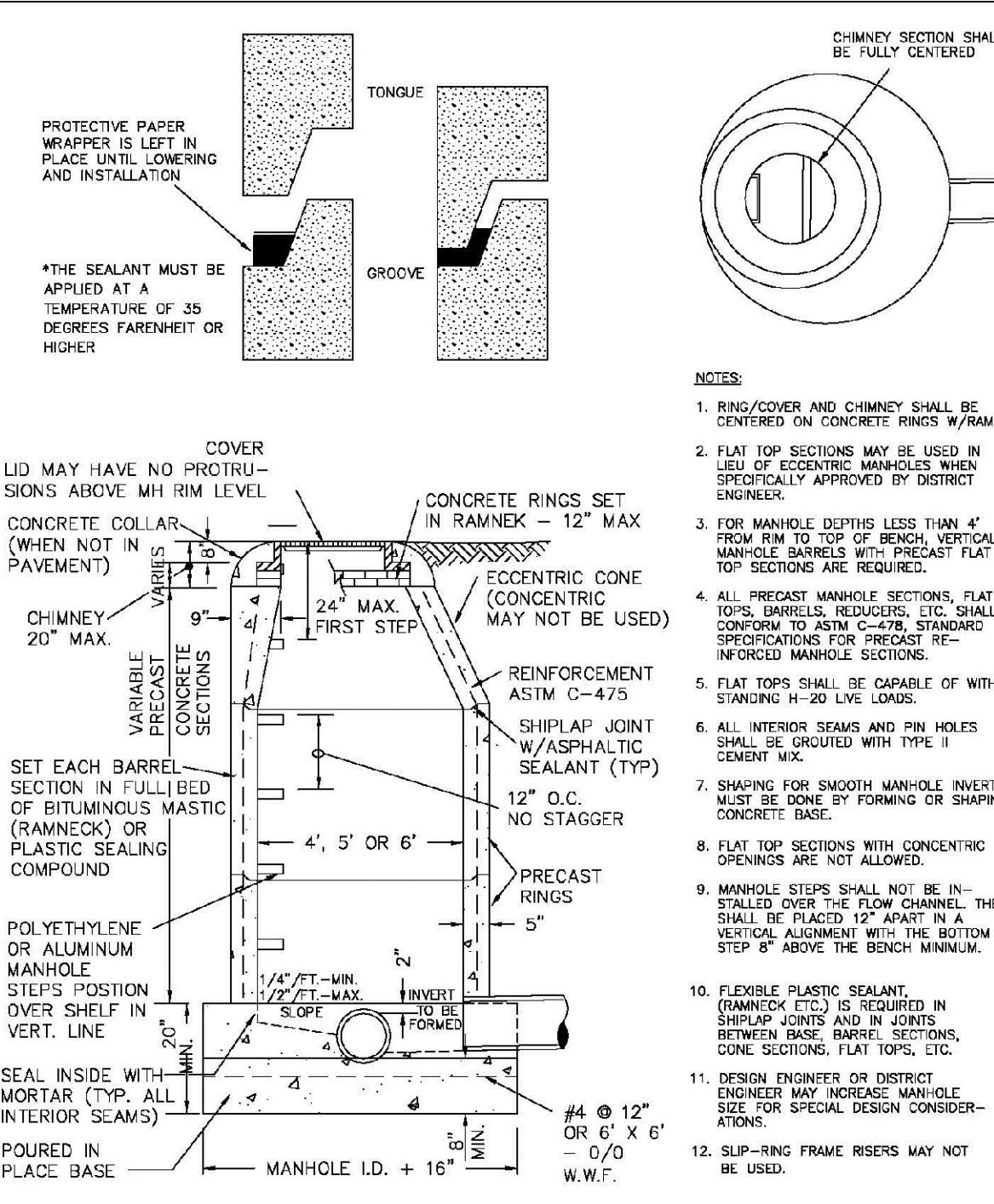


TYPICAL SERVICES SECTION

- NOTE:
1. SEE SHEET 51.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.
 2. TYPICAL WATER SERVICES SHOWN ON SHEET W1.2 IN WATER DETAILS.

2016 REVISION

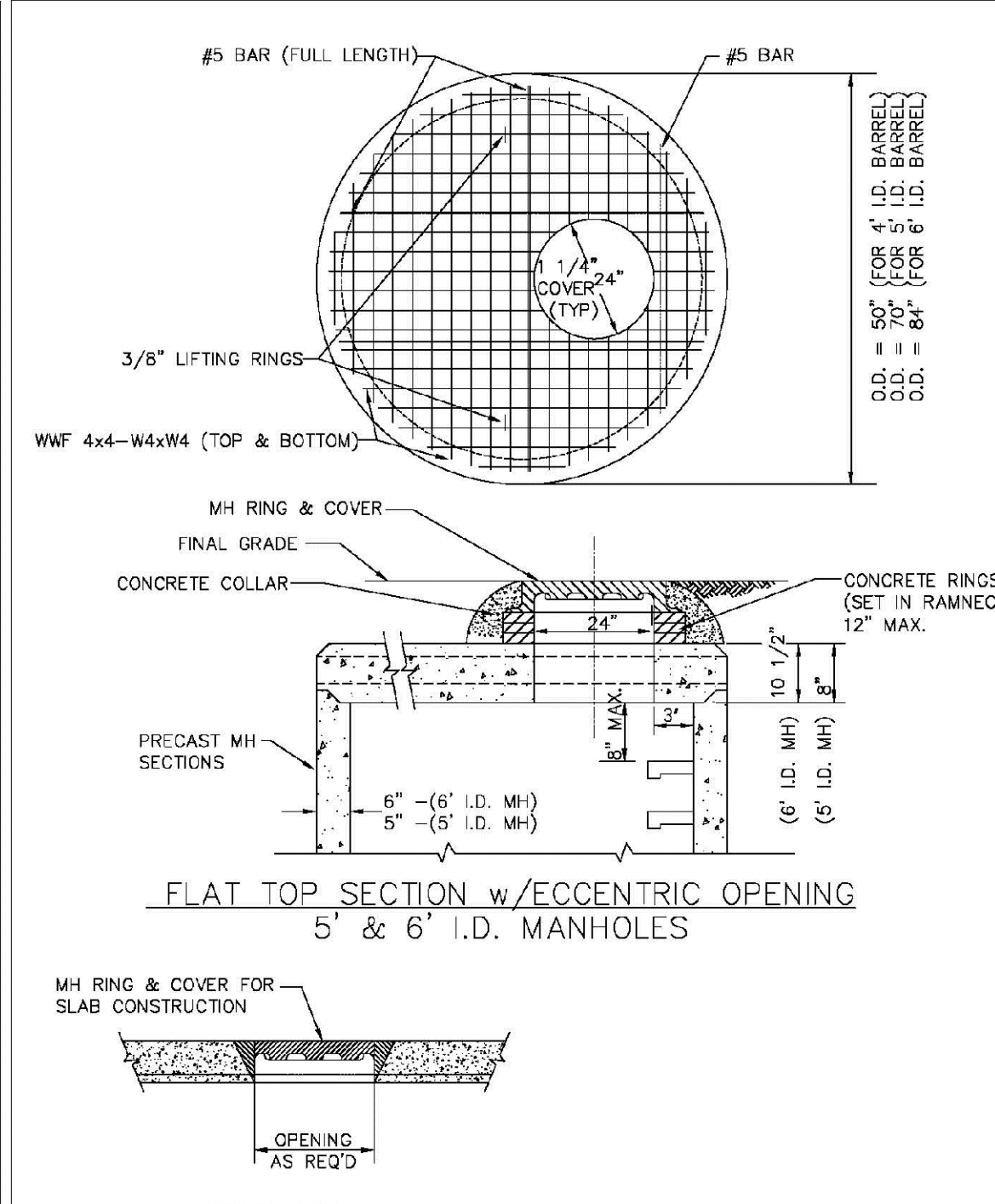
SHEET 51.2



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

2016 REVISION

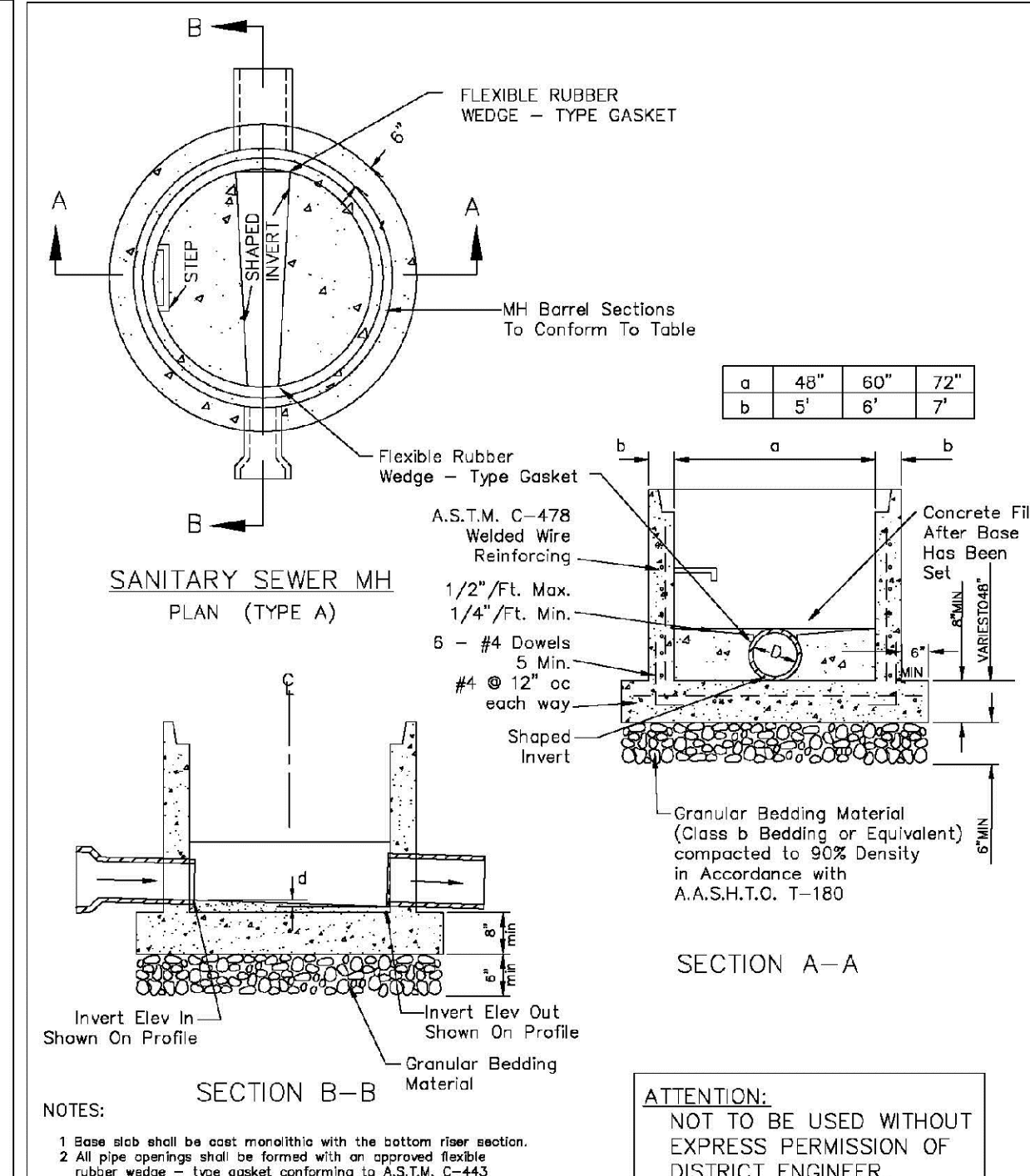
SHEET 51.2



ALTERNATE RING & COVER (TO BE USED ONLY WHEN SPECIFICALLY AUTHORIZED.)

2016 REVISION

SHEET 53.1

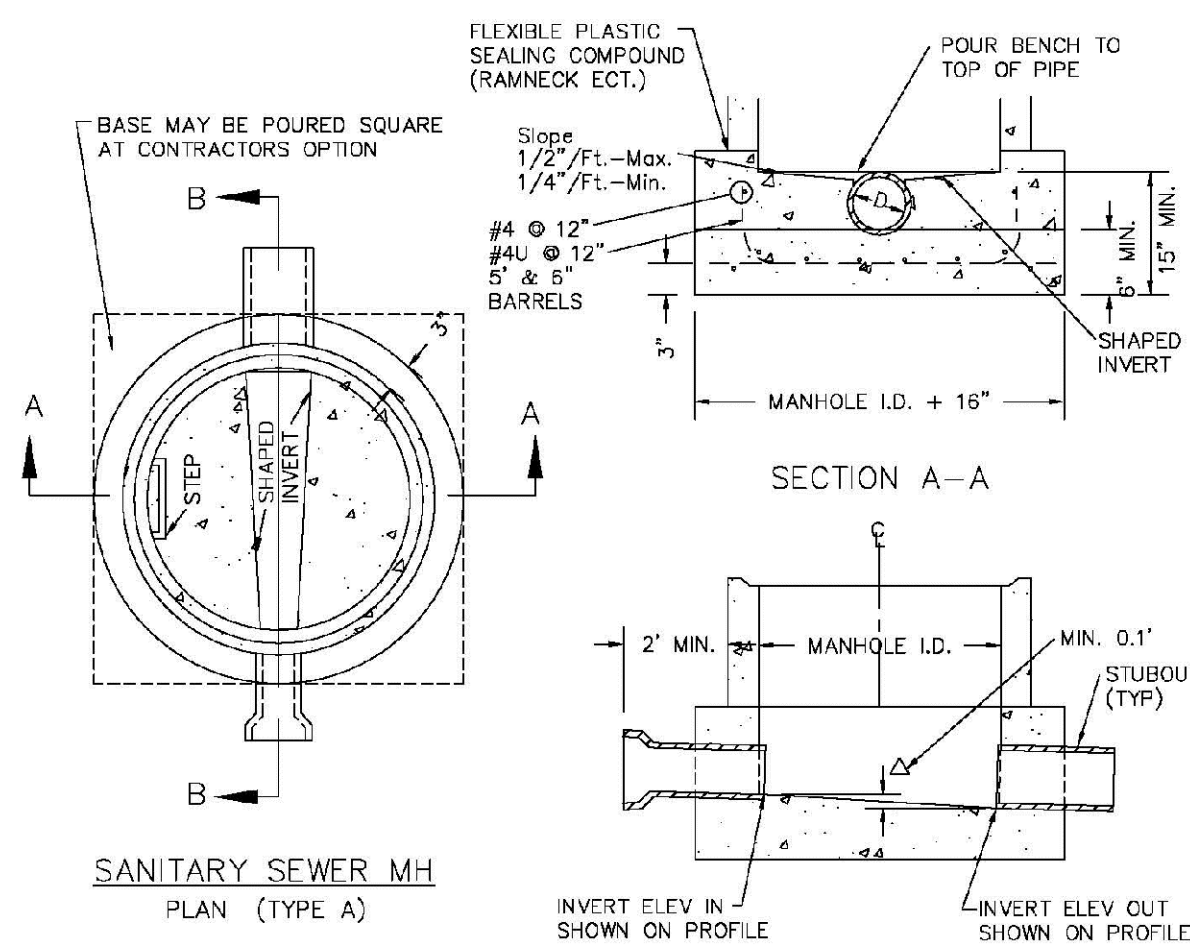


NOTES:

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 risers installed in bottom riser section shall conform to PWSD Standards and Specifications.
4. Shaping joint on manhole barrel riser 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 dependent manhole shall be installed thru 0.40% minimum slope.
5. Slope shall extend 2'-0" min past manhole O.D. and be satisfactorily plugged.
6. Slope of bench = 1/2" / FT. - Max. 1/4" / FT. - Min.
7. Invert drop thru Manhole (if > 18", outside drop MH req'd)

2016 REVISION

SHEET 53.4



SANITARY SEWER MH PLAN (TYPE A)

SECTION A-A

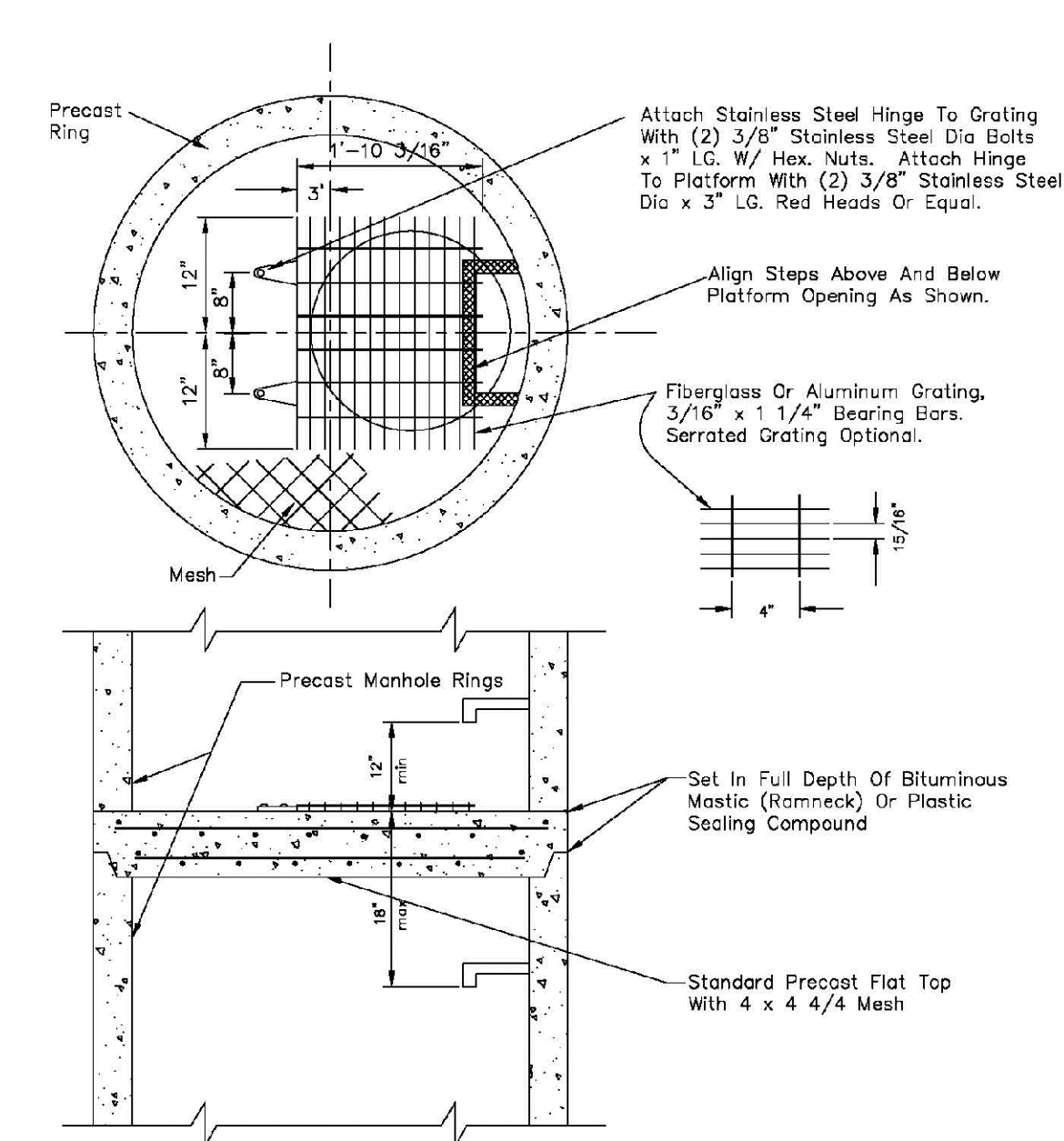
NOTES:

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. Δ = Invert drop thru MH (if Δ > 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: 2/96
APPROVED: PVR	01/02 10/16
DIRECTOR OF ENGINEERING	1/08 1/16

2016 REVISION

SHEET 53.5



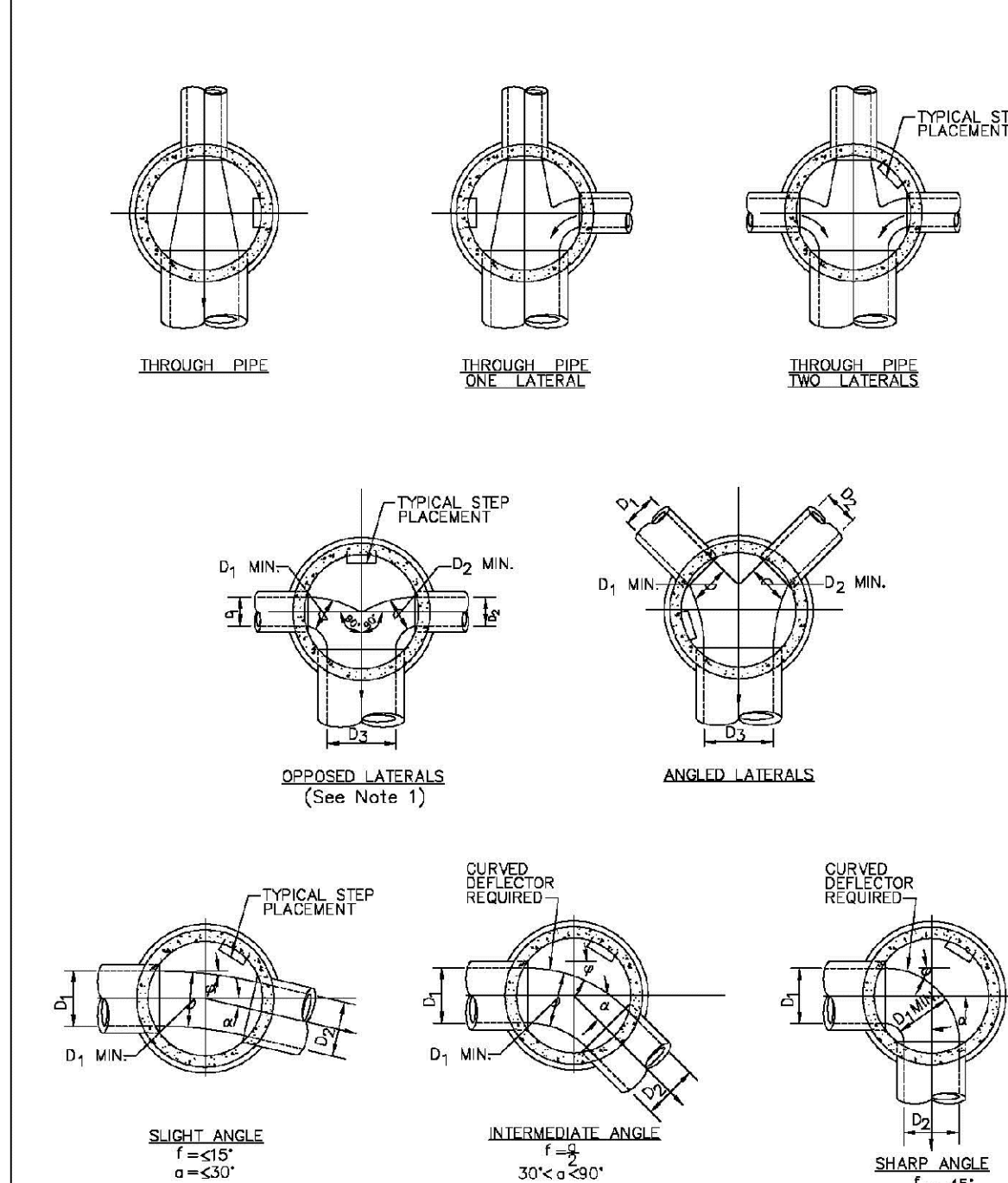
NOTES:

- 1.1 Maximum distance between platforms shall be 15' vertically.
- 1.2 All hardware used inside a manhole shall be stainless steel.
- 1.3 Manholes over 20' deep shall submit structural calculations on base and wall sizing.

PARKER WATER & SANITATION DISTRICT	
INTERMEDIATE PLATFORM FOR MANHOLES OVER 20' DEPTH	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	2/00 01/16
DIRECTOR OF ENGINEERING	1/08 1/16

2016 REVISION

SHEET 53.6



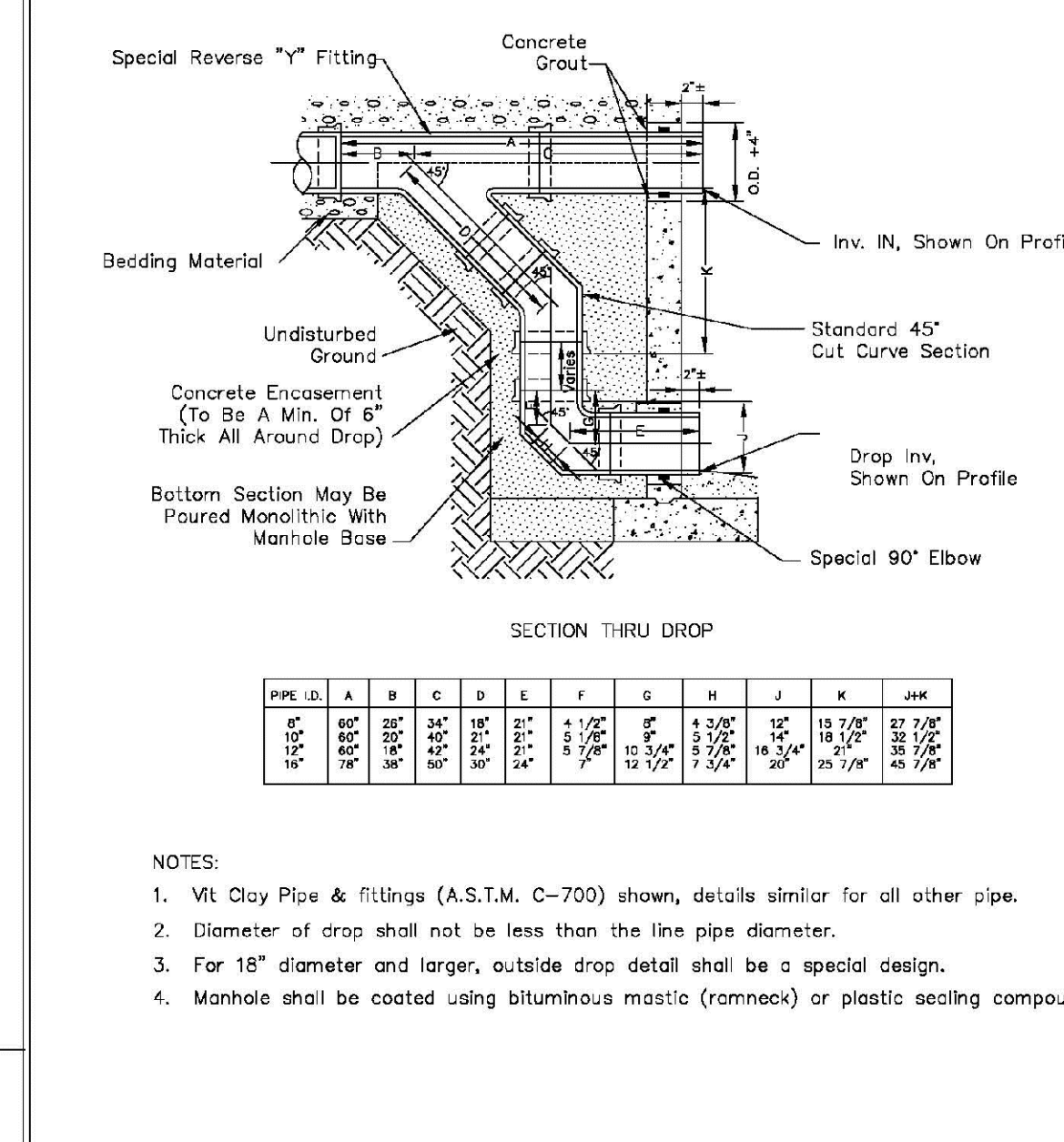
NOTES:

1. Manhole shall be coated using bituminous mastic (ramneck) or plastic sealing compound.

PARKER WATER & SANITATION DISTRICT	
TYPICAL BASE CHANNELIZATION DETAILS	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	01/16 10/16
DIRECTOR OF ENGINEERING	1/08 1/16

2016 REVISION

SHEET 53.7



OUTSIDE DROP MANHOLE CONSTRUCTION

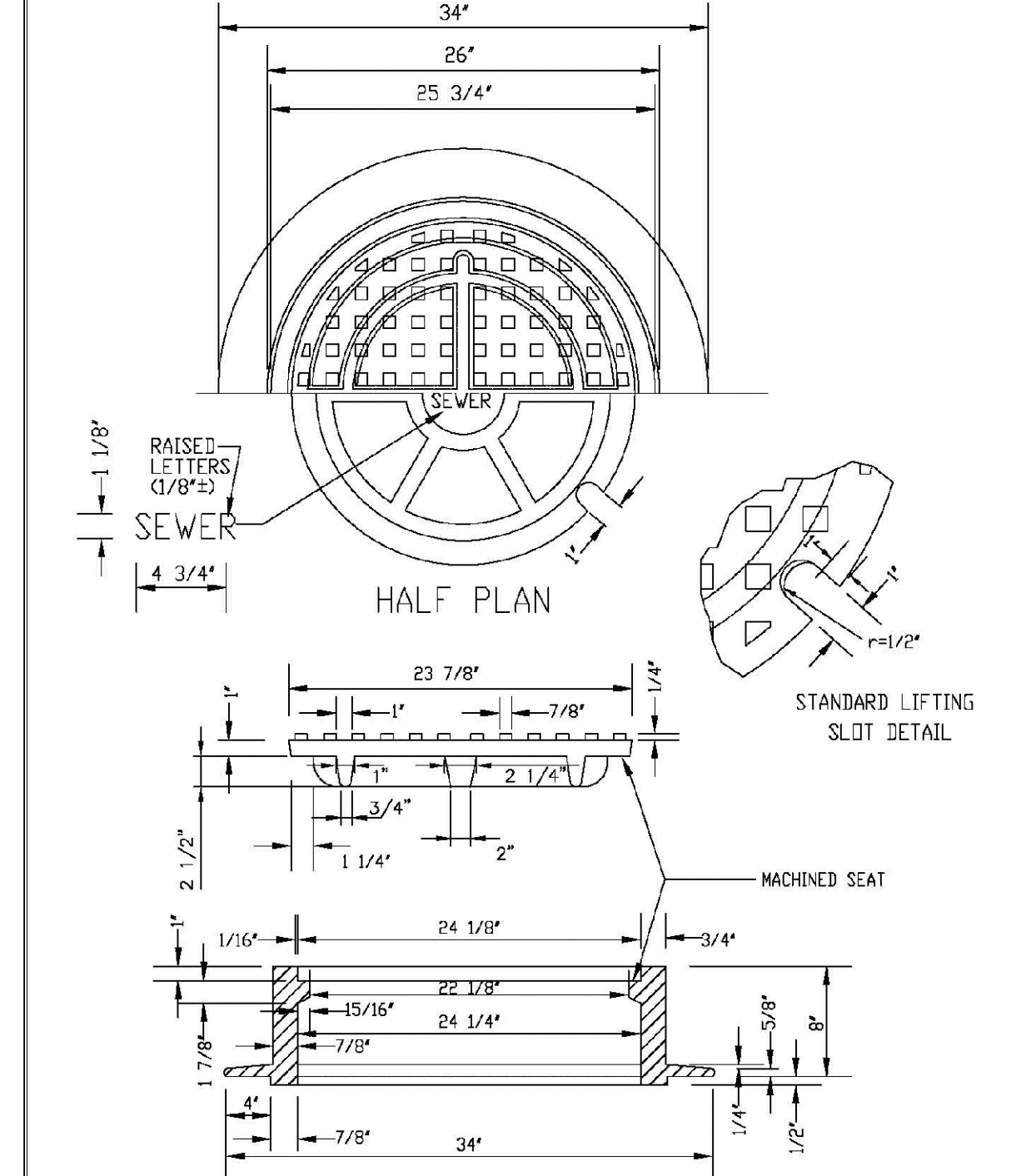
NOTES:

1. Vlt Clay Pipe & fittings (A.S.T.M. C-700) shown, details similar for all other pipe.
2. Diameter of drop shall not be less than the line pipe diameter.
3. For 18" diameter and larger, outside drop detail shall be a special design.
4. Manhole shall be coated using bituminous mastic (ramneck) or plastic sealing compound.

PARKER WATER & SANITATION DISTRICT	
OUTSIDE DROP MANHOLE CONSTRUCTION	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	01/16 10/16
DIRECTOR OF ENGINEERING	1/08 1/16

2016 REVISION

SHEET 53.8



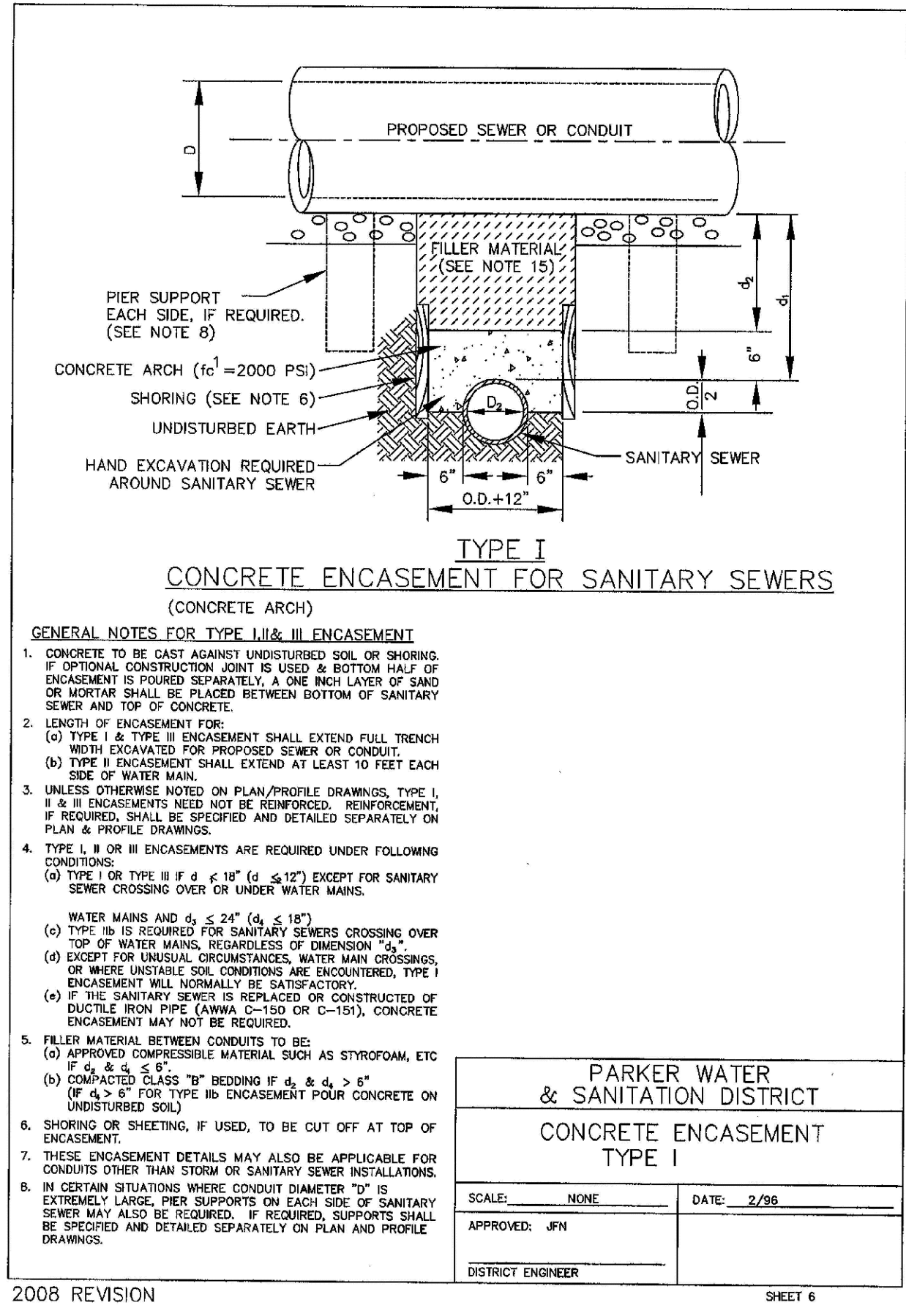
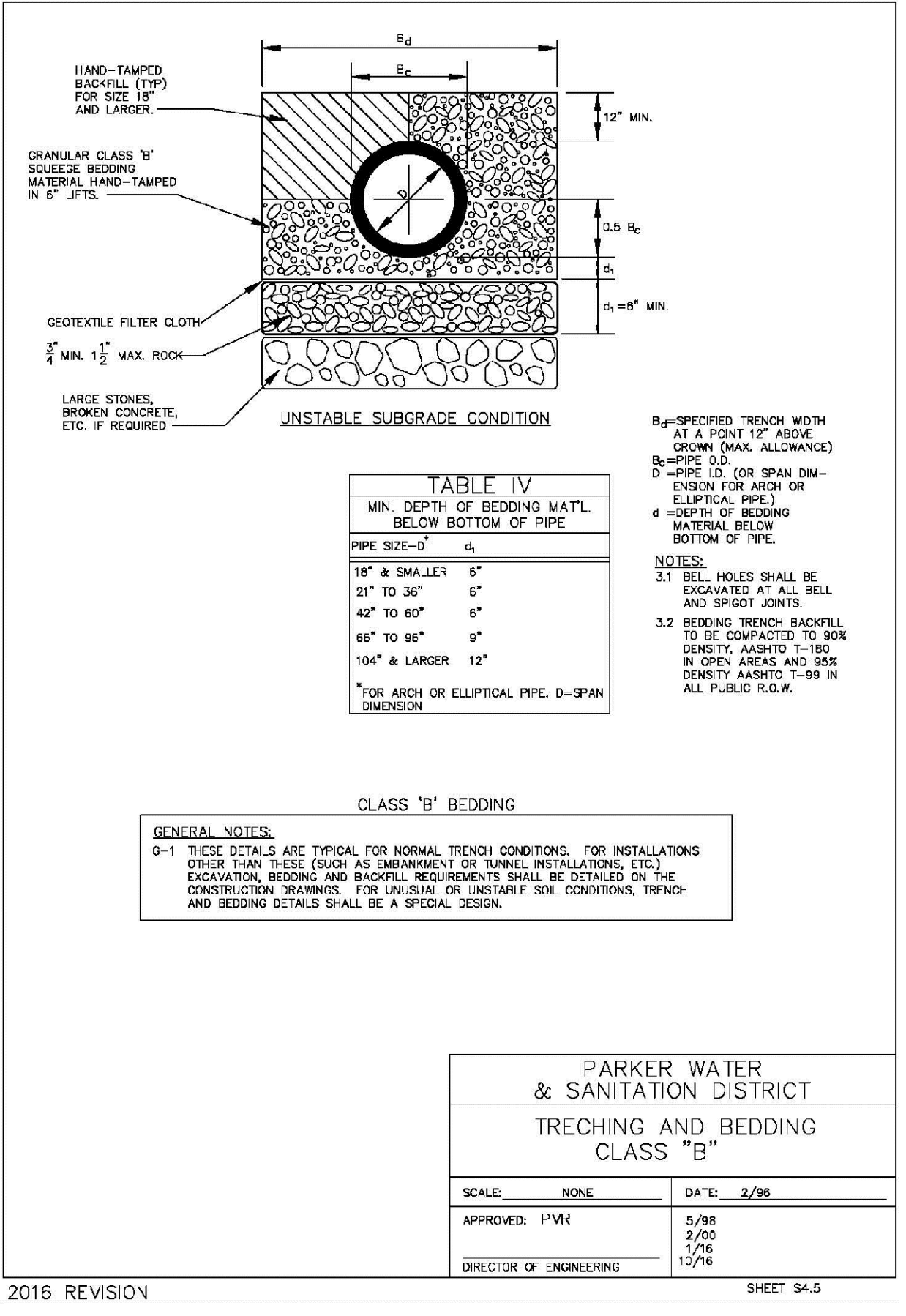
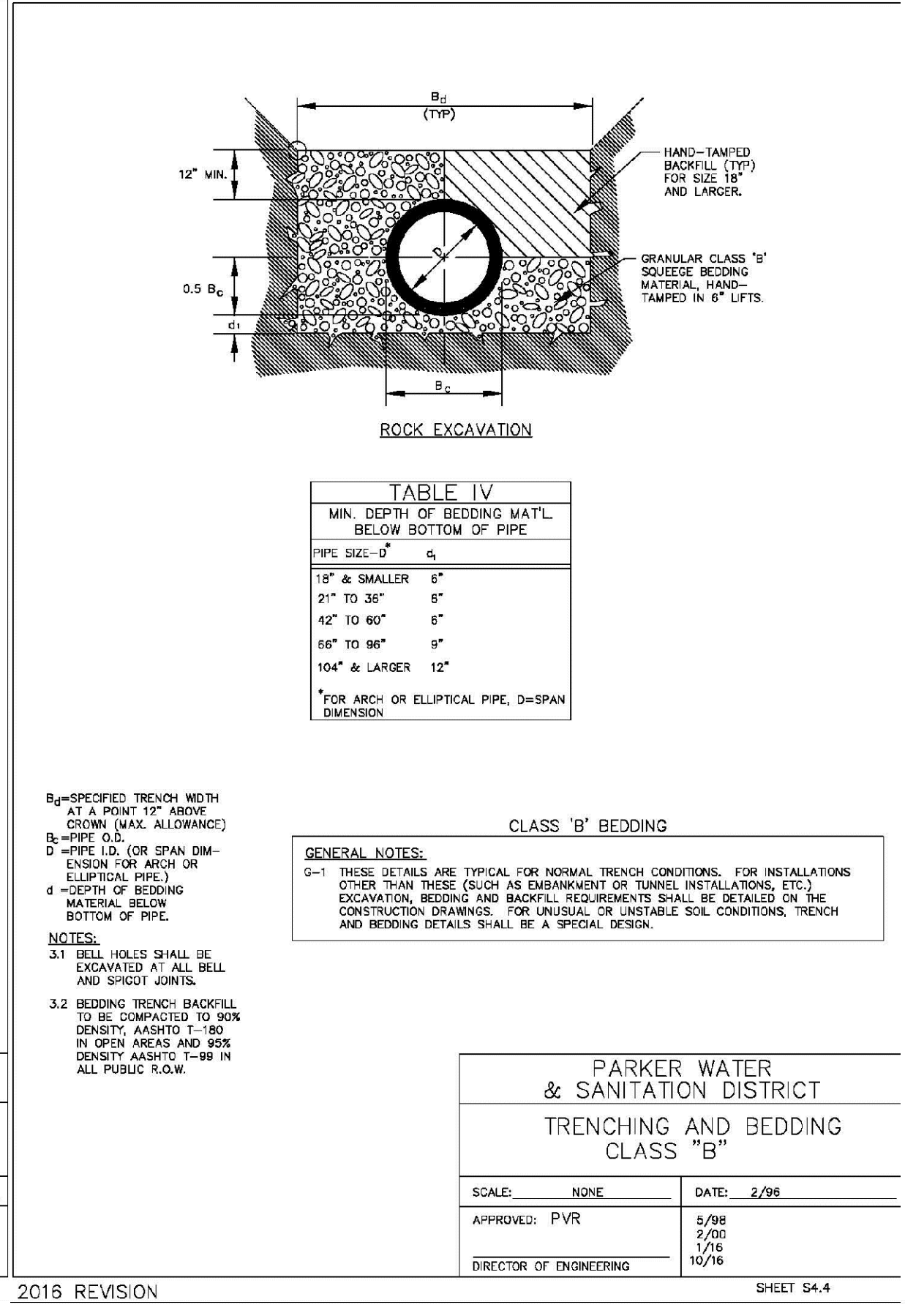
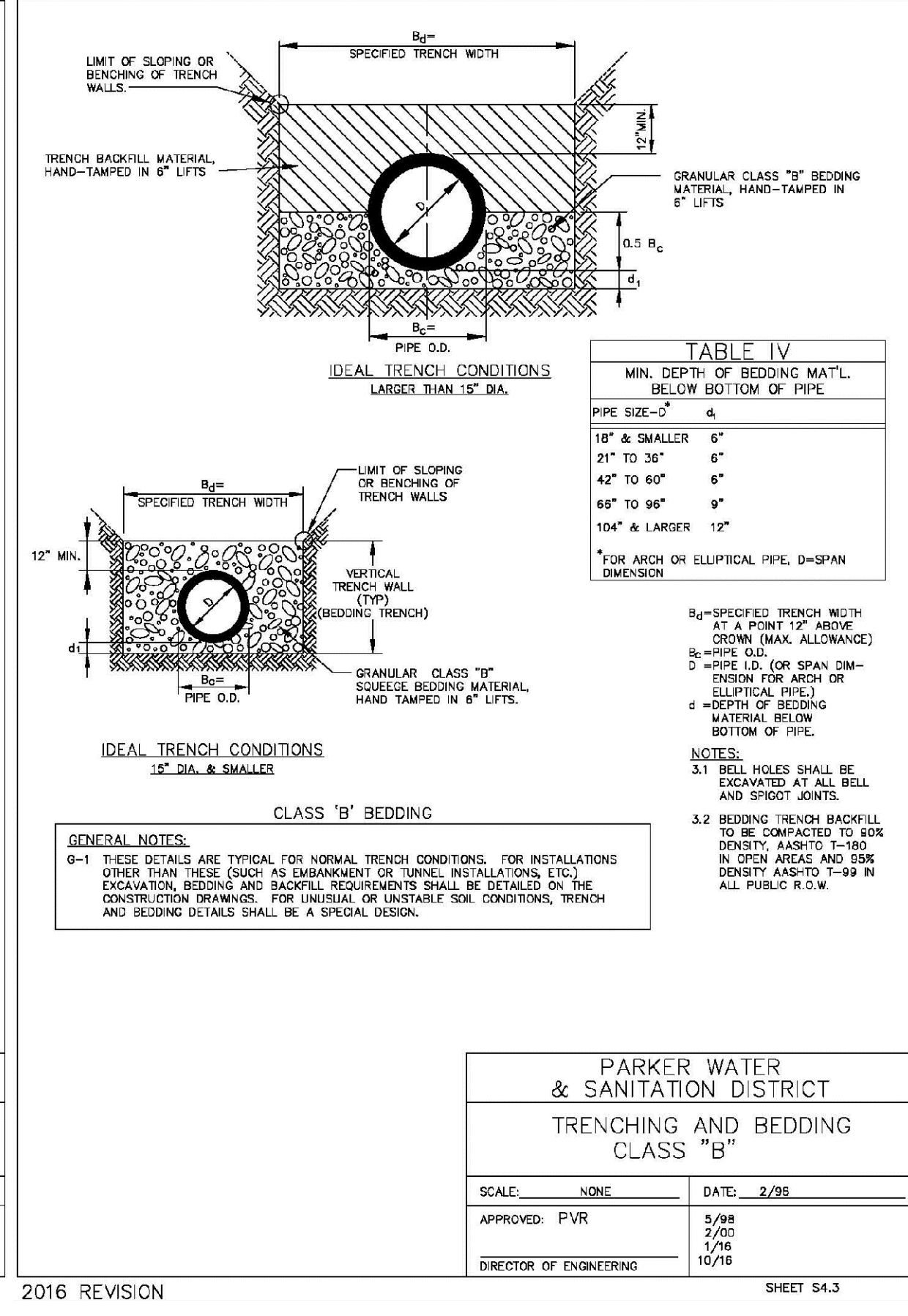
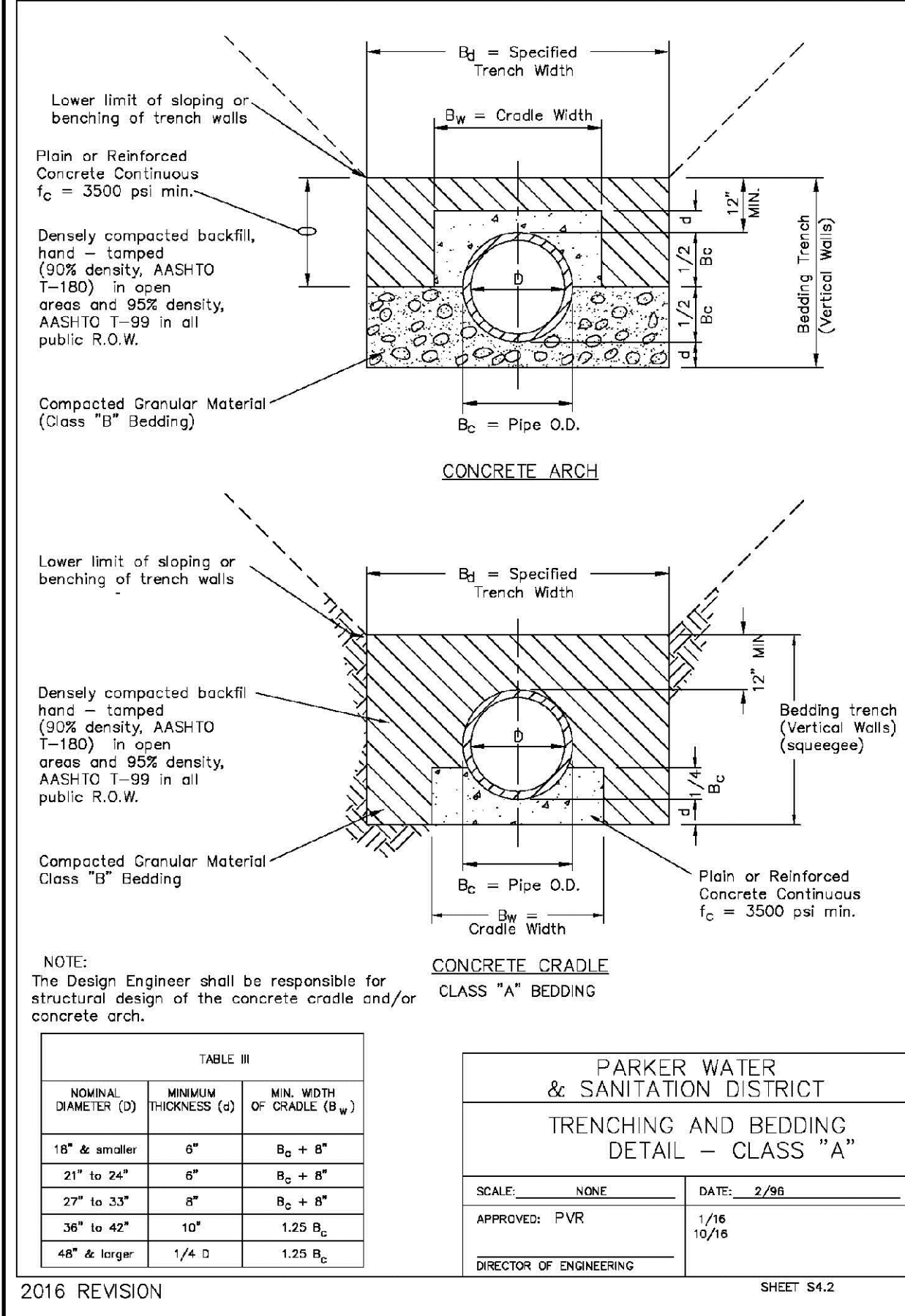
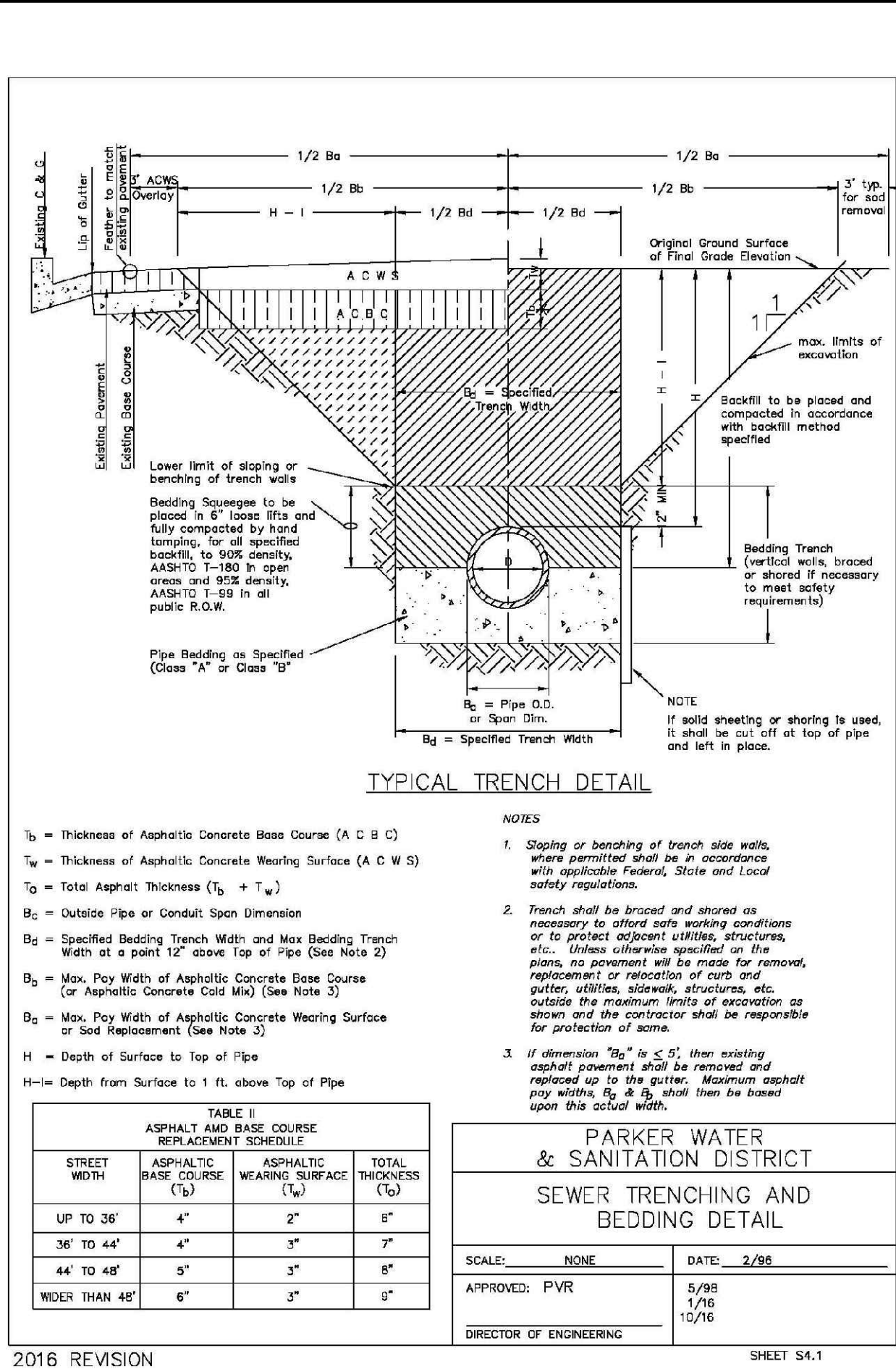
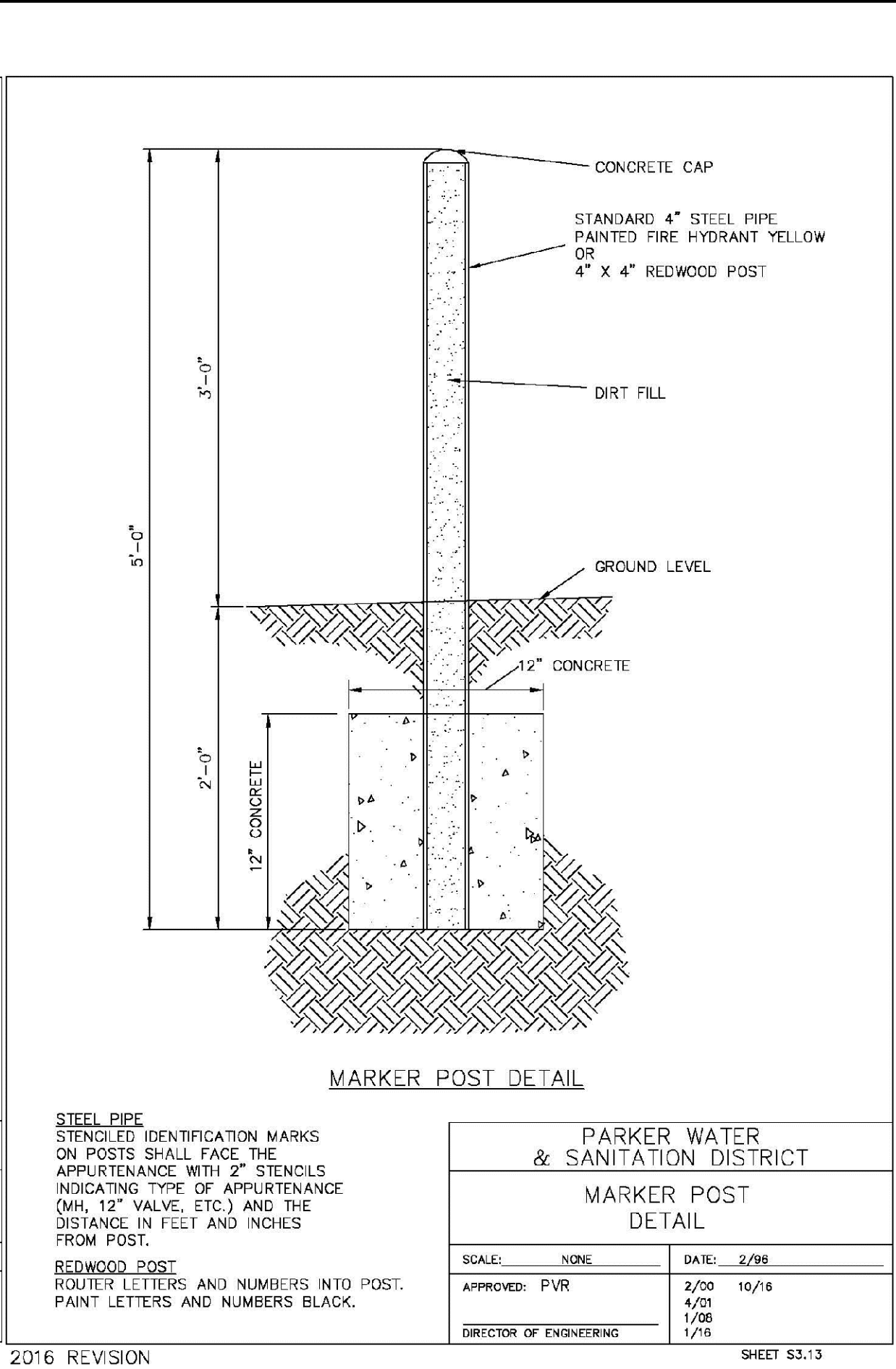
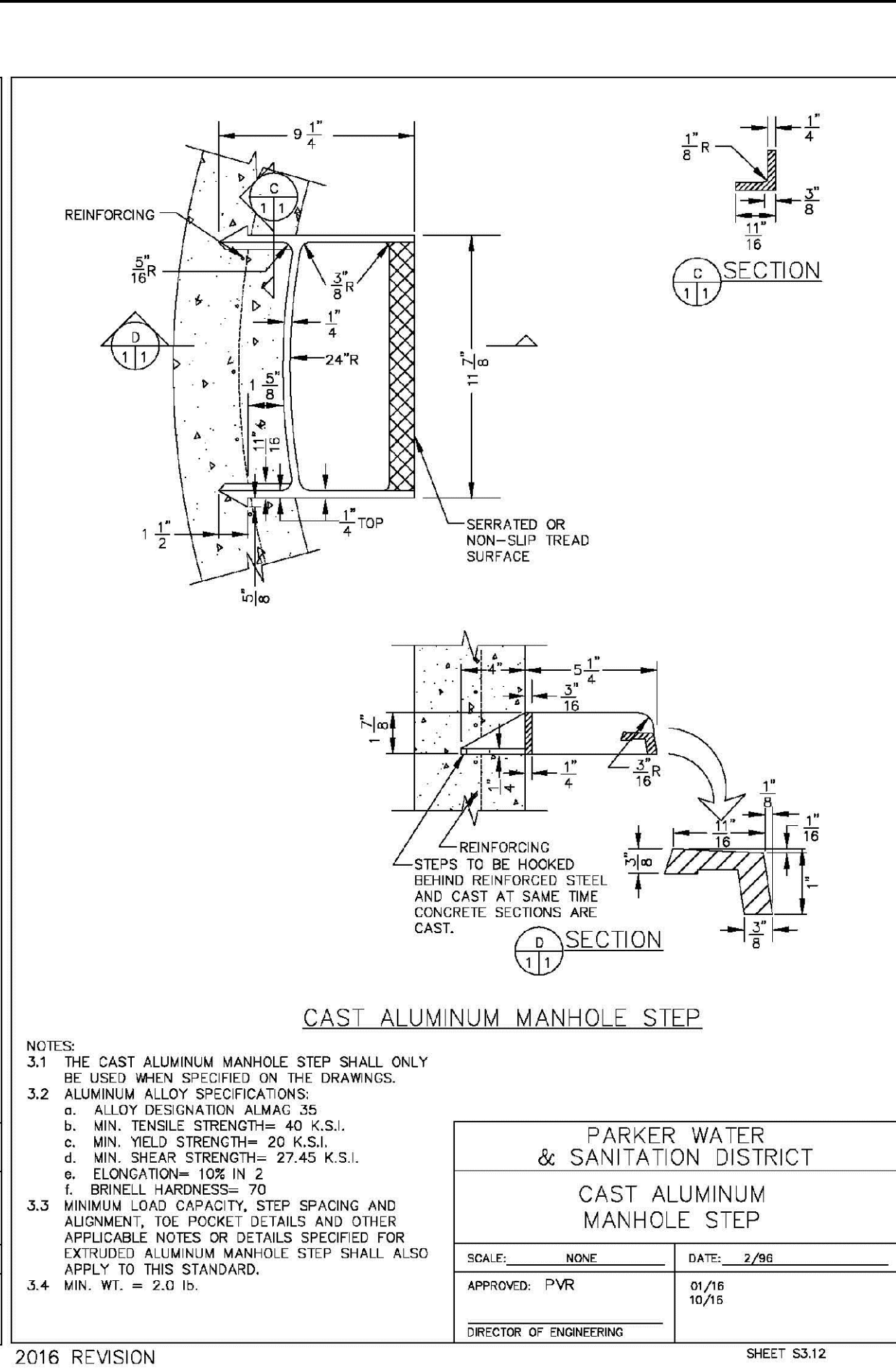
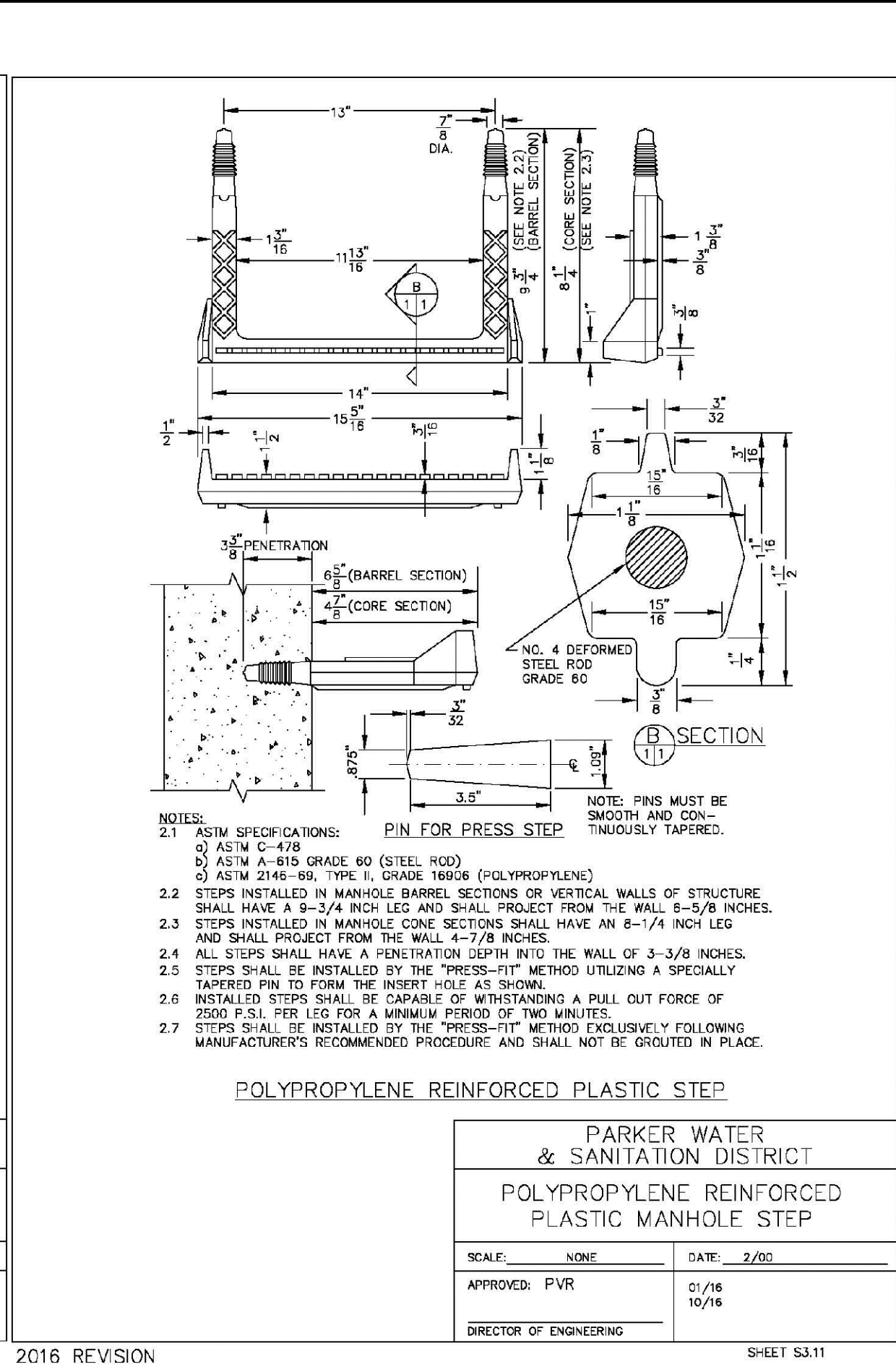
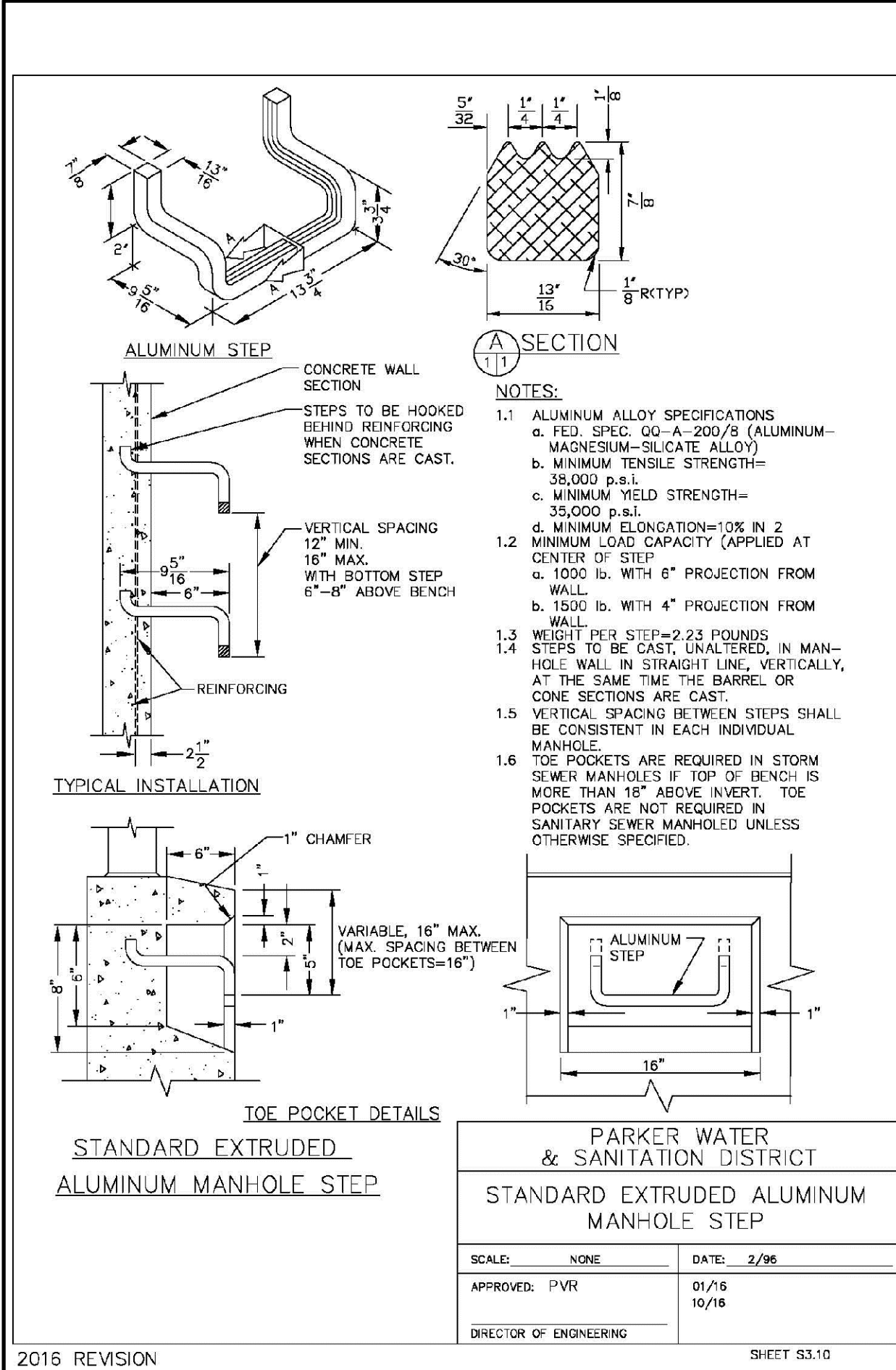
NOTES:

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.

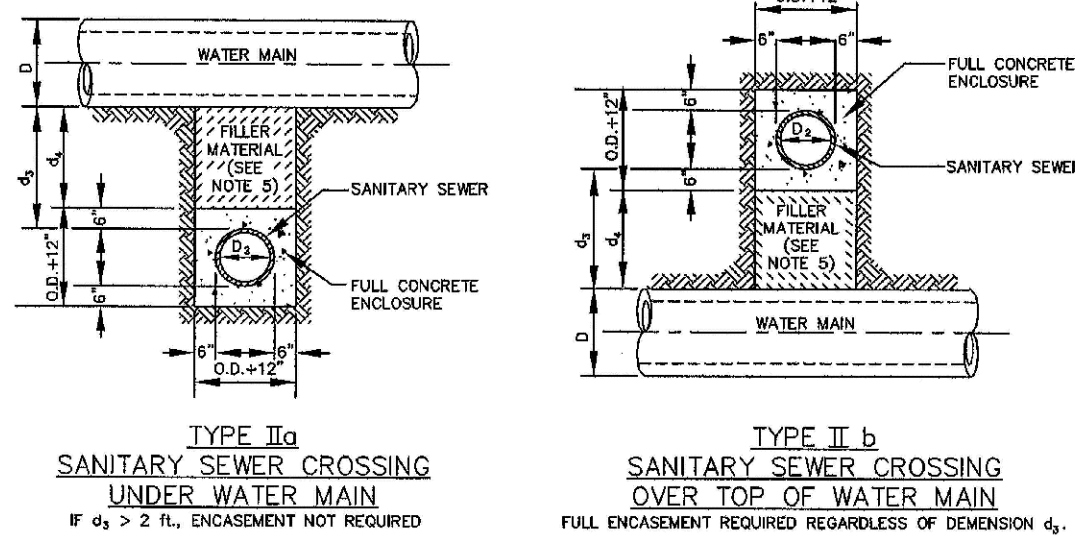
PARKER WATER & SANITATION DISTRICT	
24" DIAMETER RING AND COVER	
SCALE: NONE	DATE: 2/96
APPROVED: PVR	01/16 10/16
DIRECTOR OF ENGINEERING	1/08 1/16

2016 REVISION

SHEET 53.9



N:\PROJECTS\SSR\BANCOCAD\ENGINEERING\DRAWING\SET\BDCS\SF\0PARKER WATER AND SANITATION\SANITARY SEWER DETAILS.DWG, CHRISTOPHER.B, 14/2018 2:38 PM



TYPE II
CONCRETE ENCASEMENT FOR SANITARY SEWERS
CROSSING OVER OR UNDER WATER MAIN

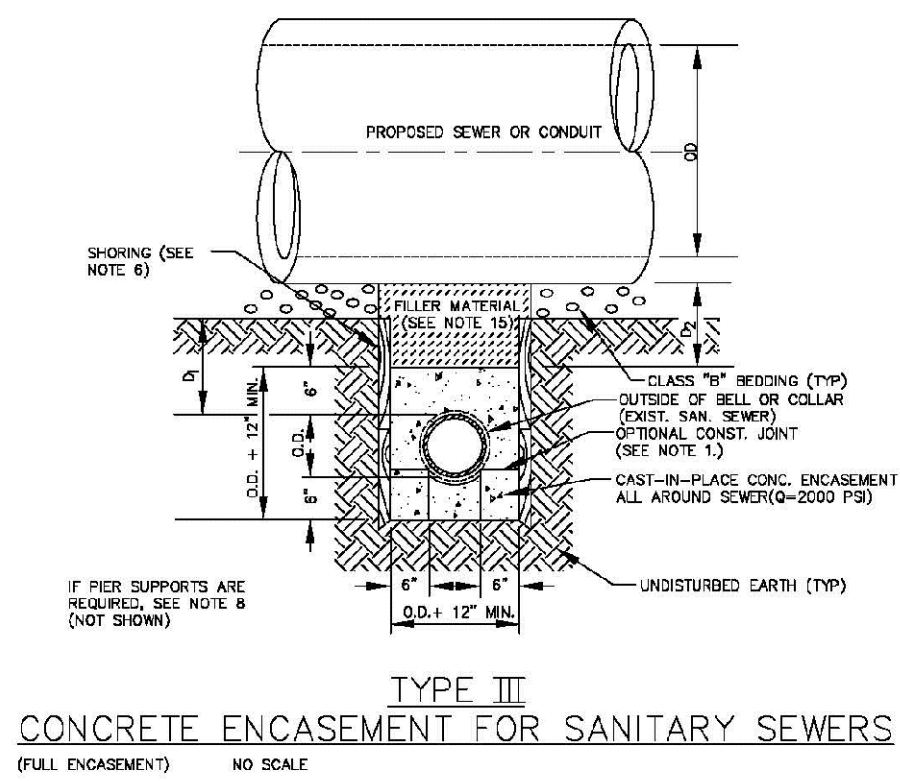
GENERAL NOTES FOR TYPE I, II & III ENCASEMENT

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR:
(a) TYPE I & TYPE II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
(b) TYPE II ENCASEMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
(a) TYPE I OR TYPE II IF $d_s \leq 18"$ ($d_s \leq 12"$ EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS).
- WATER MAINS AND $d_s \leq 24"$ ($d_s \leq 18"$)
(c) TYPE II IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION d_s .
(d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
(e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:
(a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF $d_s \leq 4"$ & $d_s \leq 5"$.
(b) COMPACTED CLASS "B" BEDDING IF $d_s \leq 4"$ & $d_s > 5"$.
(c) IF $d_s > 5"$ FOR TYPE II ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL.
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
- IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIPE SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

PARKER WATER & SANITATION DISTRICT		
CONCRETE ENCASEMENT TYPE II		
SCALE: NONE	DATE: 2/98	
APPROVED: JFN	5/98 4/01 1/08	
DISTRICT ENGINEER		

2008 REVISION

SHEET 7



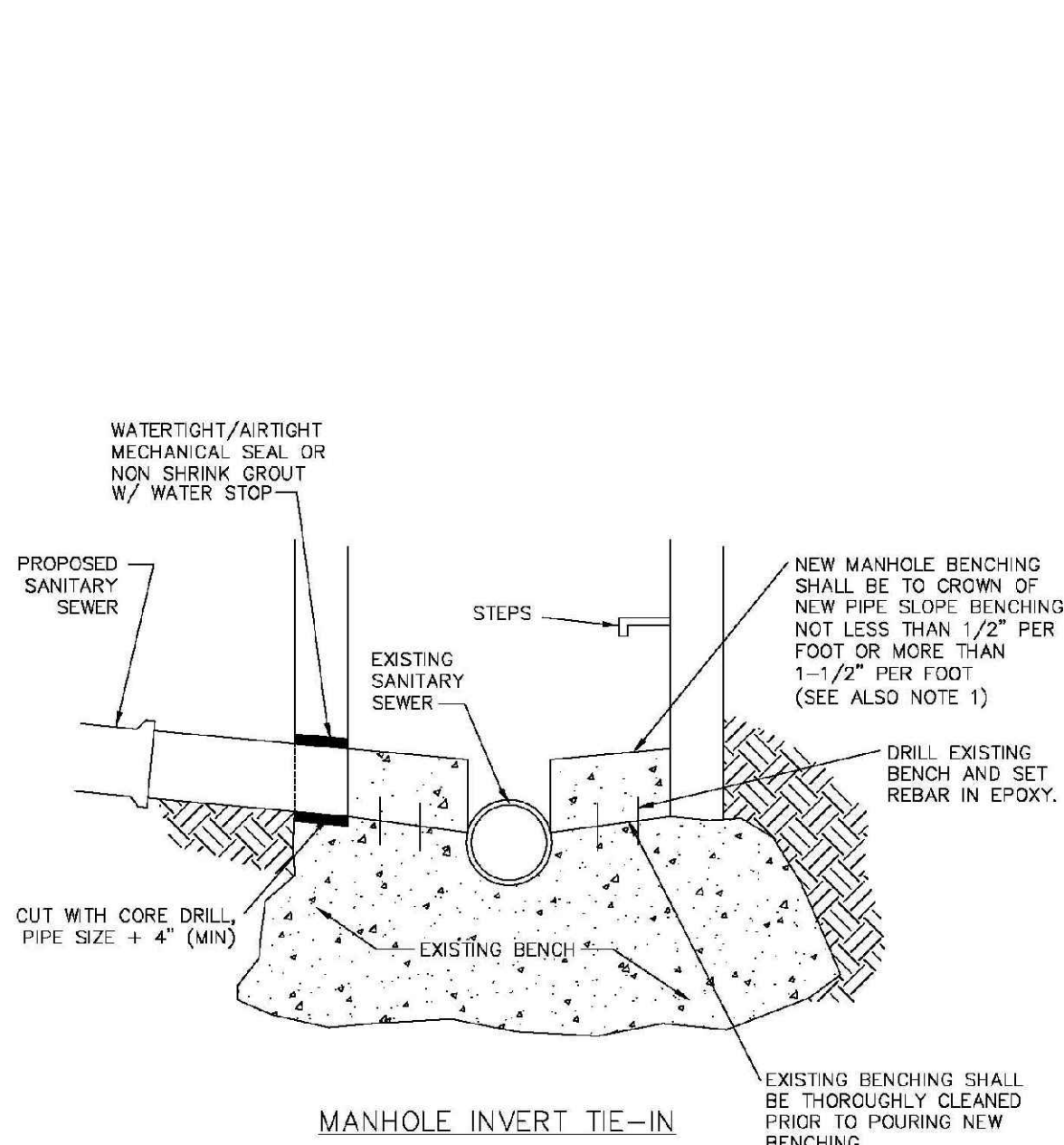
GENERAL NOTES FOR TYPE I, II & III ENCASEMENT

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR:
(a) TYPE I & TYPE II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
(b) TYPE II ENCASEMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, TO BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
(a) TYPE I OR TYPE II IF $d_s \leq 18"$ ($d_s \leq 12"$ EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS).
- WATER MAINS AND $d_s \leq 24"$ ($d_s \leq 18"$)
(c) TYPE II IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION d_s .
(d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
(e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE:
(a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF $d_s \leq 4"$ & $d_s \leq 5"$.
(b) COMPACTED CLASS "B" BEDDING IF $d_s \leq 4"$ & $d_s > 5"$.
(c) IF $d_s > 5"$ FOR TYPE II ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL.
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
- IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIPE SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.
- CONCRETE ENCASED PIPING SHALL BE LINED WITH FELT LAYER.

PARKER WATER & SANITATION DISTRICT		
CONCRETE ENCASEMENT TYPE III		
SCALE: NONE	DATE: 2/98	
APPROVED: PVR	5/98 1/16 10/16	
DIRECTOR OF ENGINEERING		

2016 REVISION

SHEET 8A.8



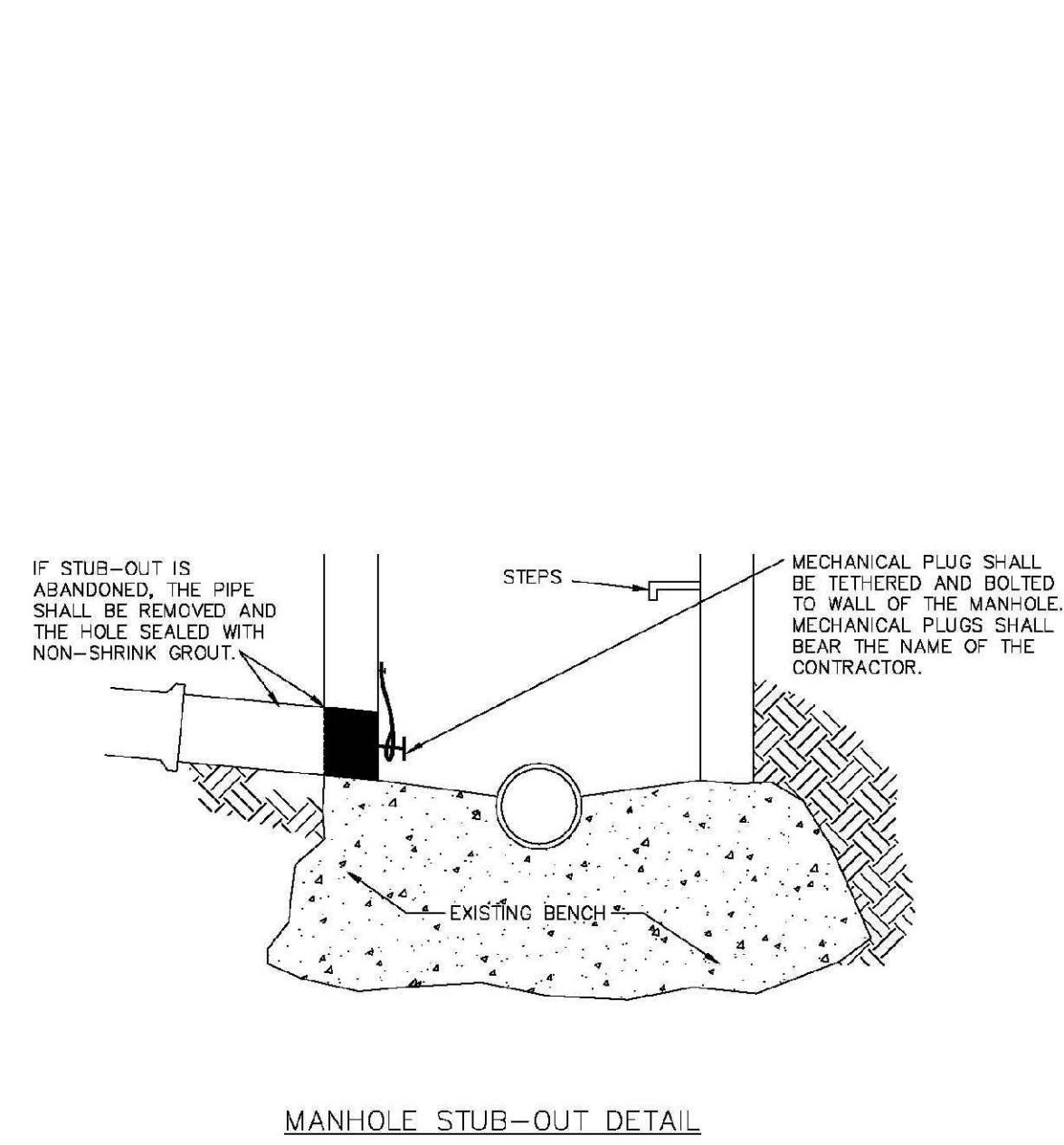
NOTES

- NEW BENCH SHALL INCLUDE REINFORCEMENT TO CONTROL CONCRETE CRACKING.

PARKER WATER & SANITATION DISTRICT		
MANHOLE INVERT TIE-IN DETAIL		
SCALE: NONE	DATE: 2/98	
APPROVED: PVR	1/16 10/16	
DIRECTOR OF ENGINEERING		

2016 REVISION

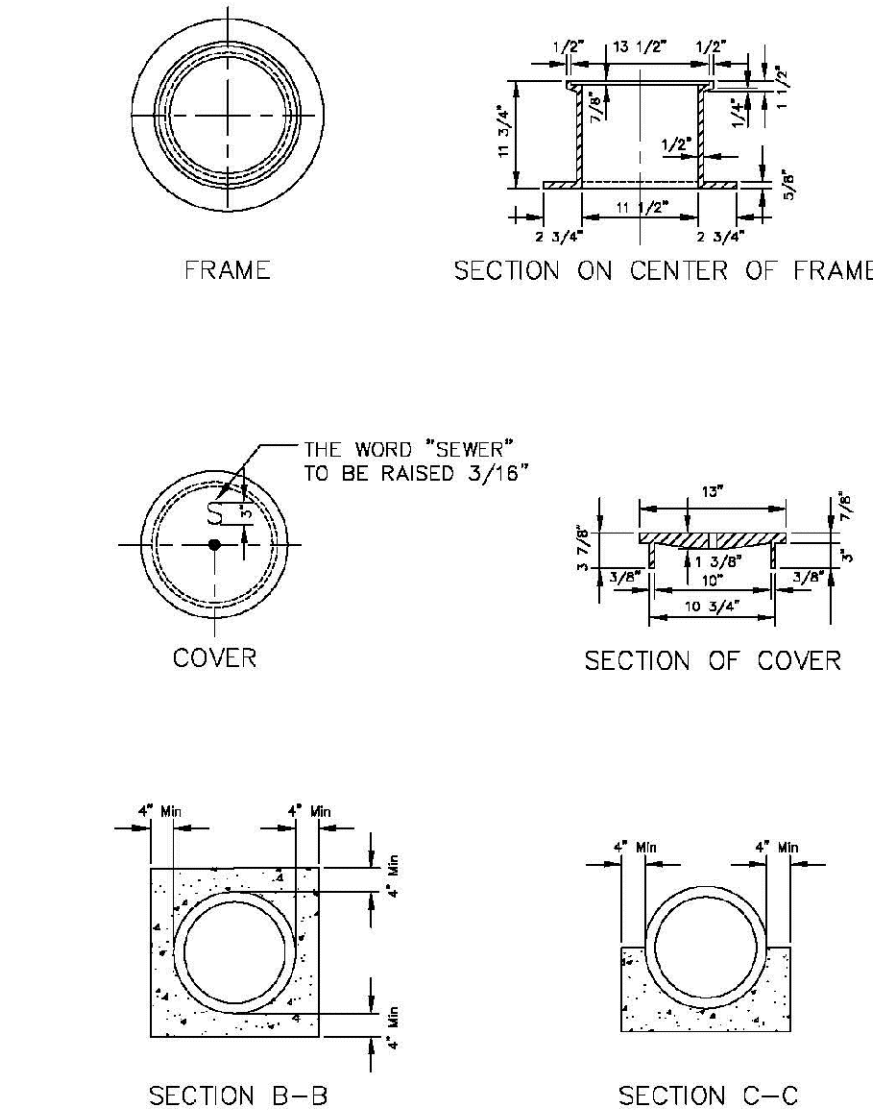
SHEET 8A.9



PARKER WATER & SANITATION DISTRICT		
MANHOLE STUB-OUT DETAIL		
SCALE: NONE	DATE: 2/98	
APPROVED: PVR	1/16 10/16	
DIRECTOR OF ENGINEERING		

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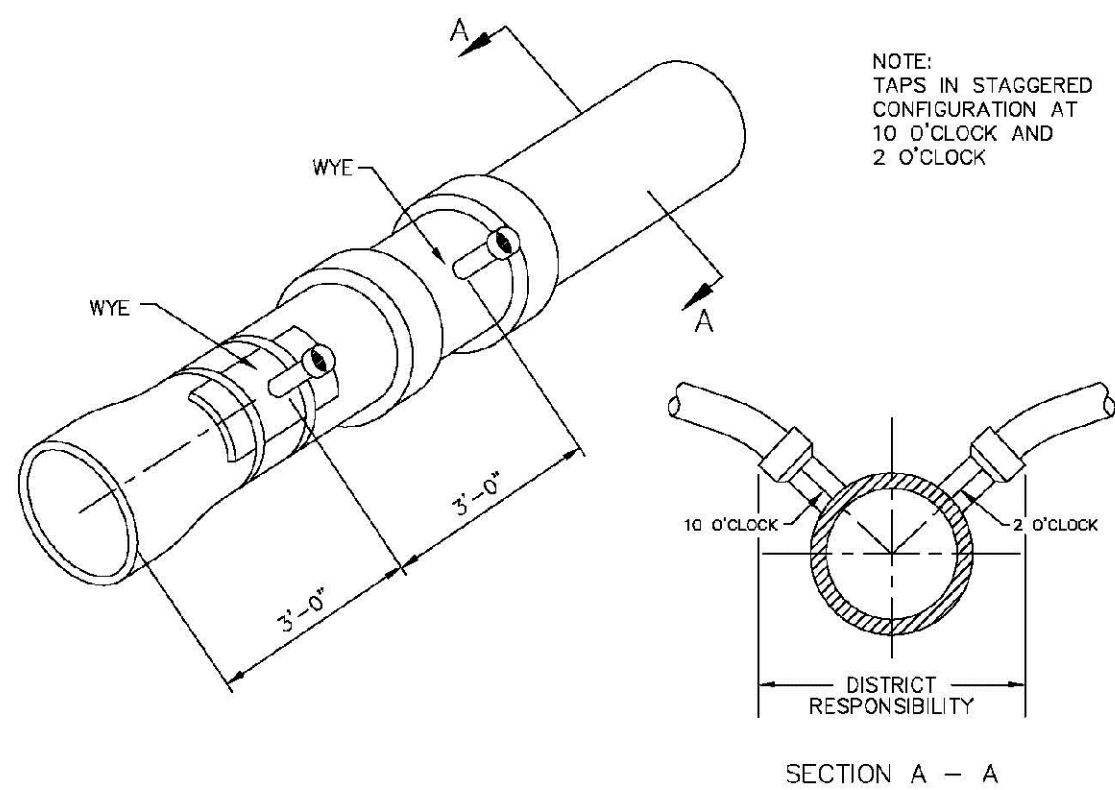
SHEET 8A.10



PARKER WATER & SANITATION DISTRICT		
IN-LINE CLEANOUT SECTIONS		
SCALE: NONE	DATE: 2/98	
APPROVED: PVR	2/00 1/08 10/16	
DIRECTOR OF ENGINEERING		

2016 REVISION

SHEET 8A.12



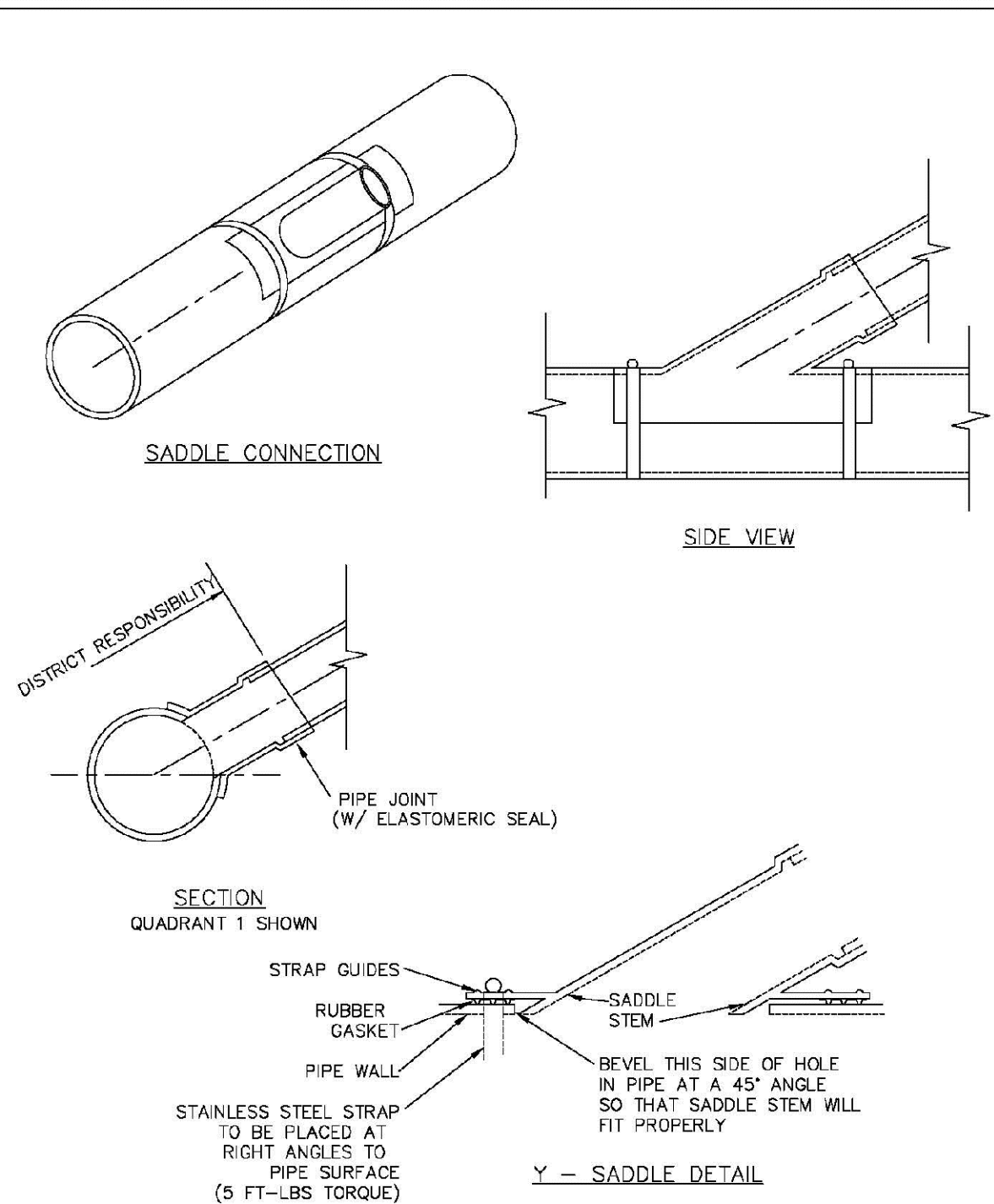
Sewer service connections shall be positioned at either the 2 o'clock or the 10 o'clock position on the circumference of the sewer main. On new installations, tee or wye fittings shall be used. When tapping into existing sewer main, a saddle connection and approved coring method shall be used. The minimum 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: 2/98	
APPROVED: PVR	4/01 1/08 1/16 10/16	
DIRECTOR OF ENGINEERING		

2016 REVISION

SHEET 8A.13



NOTES:

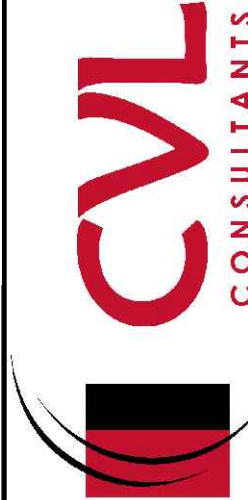
- SADDLE FITTINGS TO BE PER ASTM D3034.
- CONNECTION SHALL BE Y - SADDLE WITH TWO BONDS

PARKER WATER & SANITATION DISTRICT		
P.V.C. SADDLE CONNECTION DETAIL		
SCALE: NONE	DATE: 2/98	
APPROVED: PVR	1/16 10/16	
DIRECTOR OF ENGINEERING		

2016 REVISION

SHEET 8A.14

10333 E. Dry Creek Rd.
Denver, CO 80140
Tel: (720) 482-9526
Fax: (720) 482-9546



HR 935 LLC
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER DETAILS

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JF
CHECKED BY: JJ
DATE: SEPTEMBER 2017

SHEET NUMBER
22

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:

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 SUB-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 CONTINUOUS 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
"Y" FOR WATER SERVICES
13. NO SPLICES OR FLARED COUPLINGS ALLOWED 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.

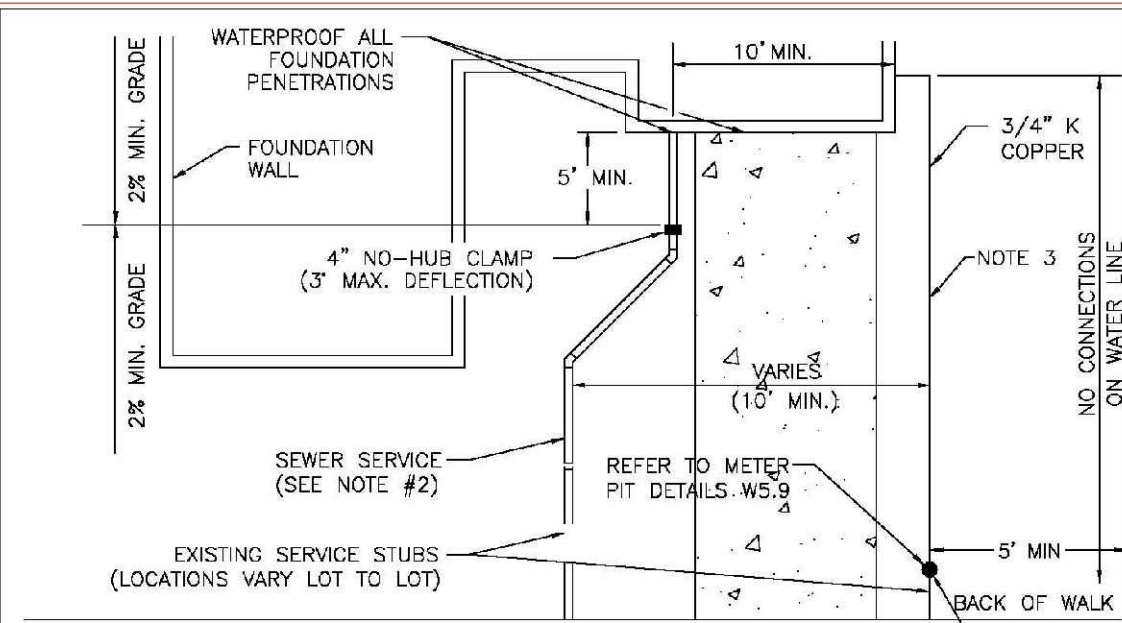
PARKER WATER & SANITATION DISTRICT

NOTES FOR WATER SERVICES

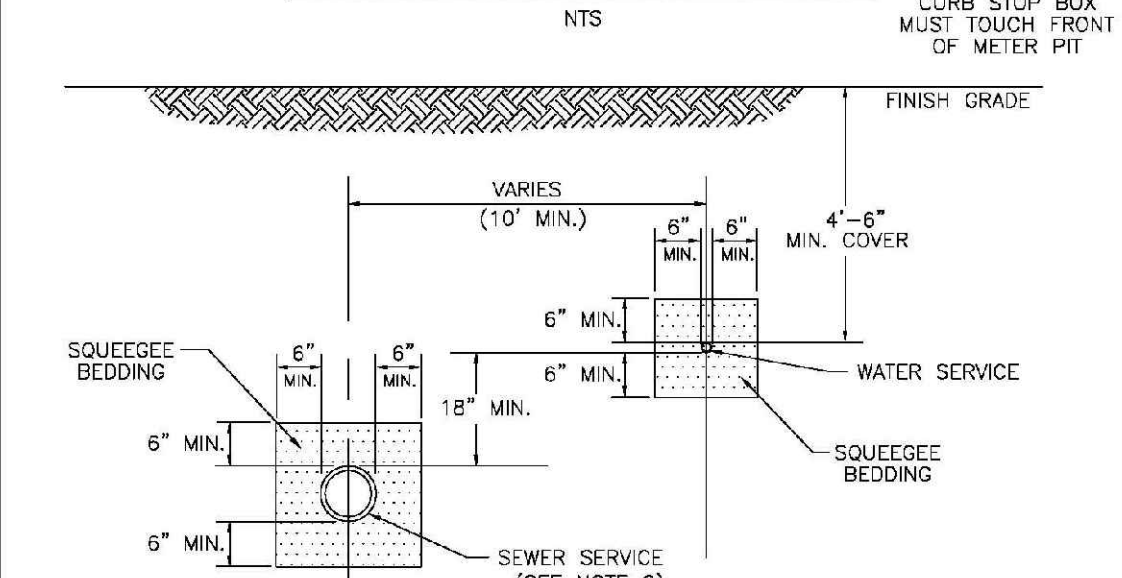
SCALE: NONE	DATE: 2/96
APPROVED: 1/16	10/16
PVR	10/16
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W1.1



TYPICAL SERVICES PLAN VIEW



TYPICAL SERVICES SECTION

1. SEE SHEET W1.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.
2. REFER TO SEWER SERVICES DETAIL SHEET S1.2.
3. 4" PVC SLEEVES REQUIRED FOR SERVICE LINES UNDER CONCRETE SURFACE.

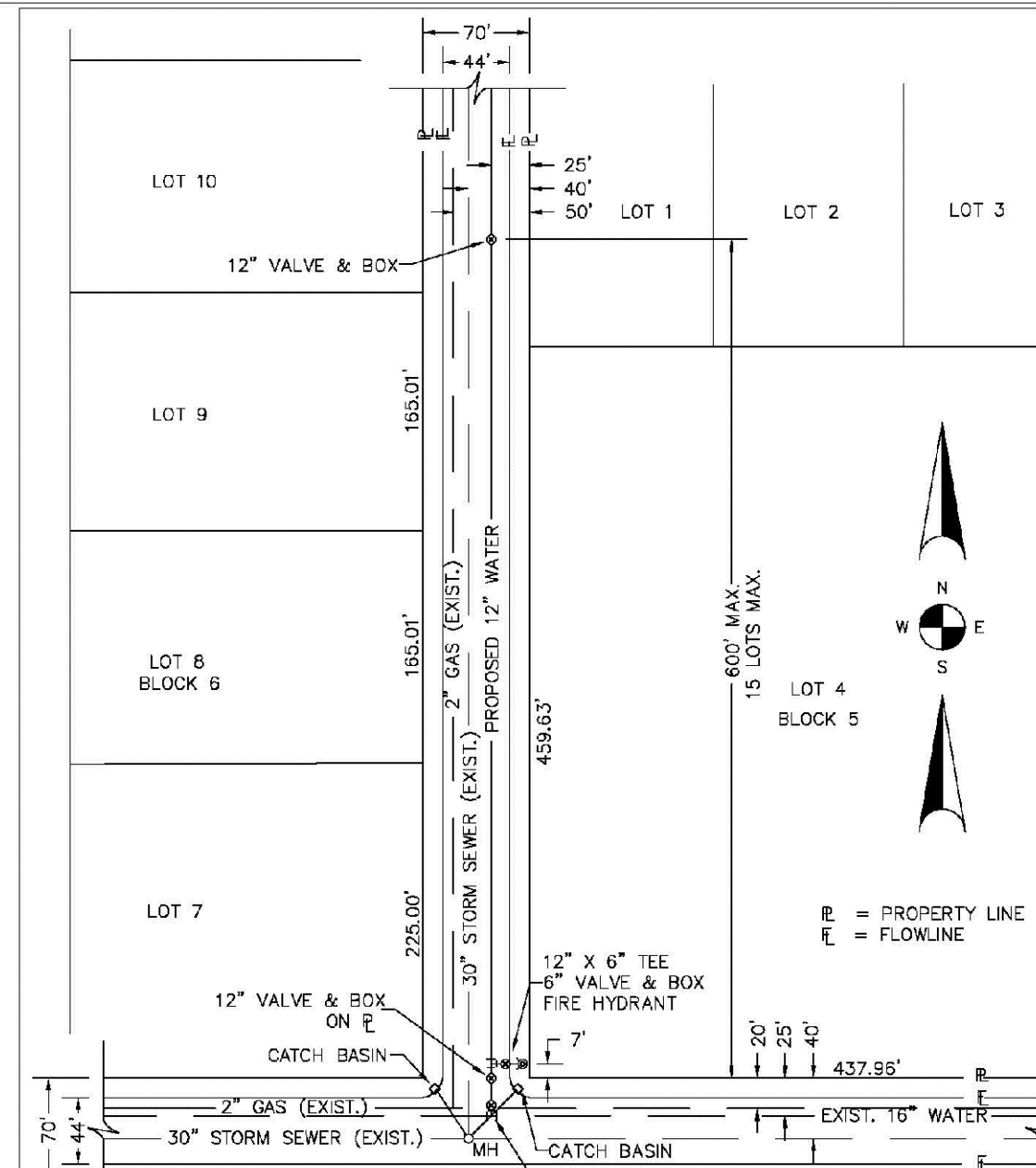
PARKER WATER & SANITATION DISTRICT

TYPICAL WATER SERVICES

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

2016 REVISION

SHEET W1.2



TYPICAL PLAN

1. SEE "TYPICAL STREET CROSS SECTION - TYPICAL STREET Q PROFILE" DRAWING.
2. ALL FIRE HYDRANTS TO BE LOCATED AT POINTS OTHER THAN CORNER INTERSECTIONS SHALL BE INSTALLED AT A LOT LINE EXTENDED.

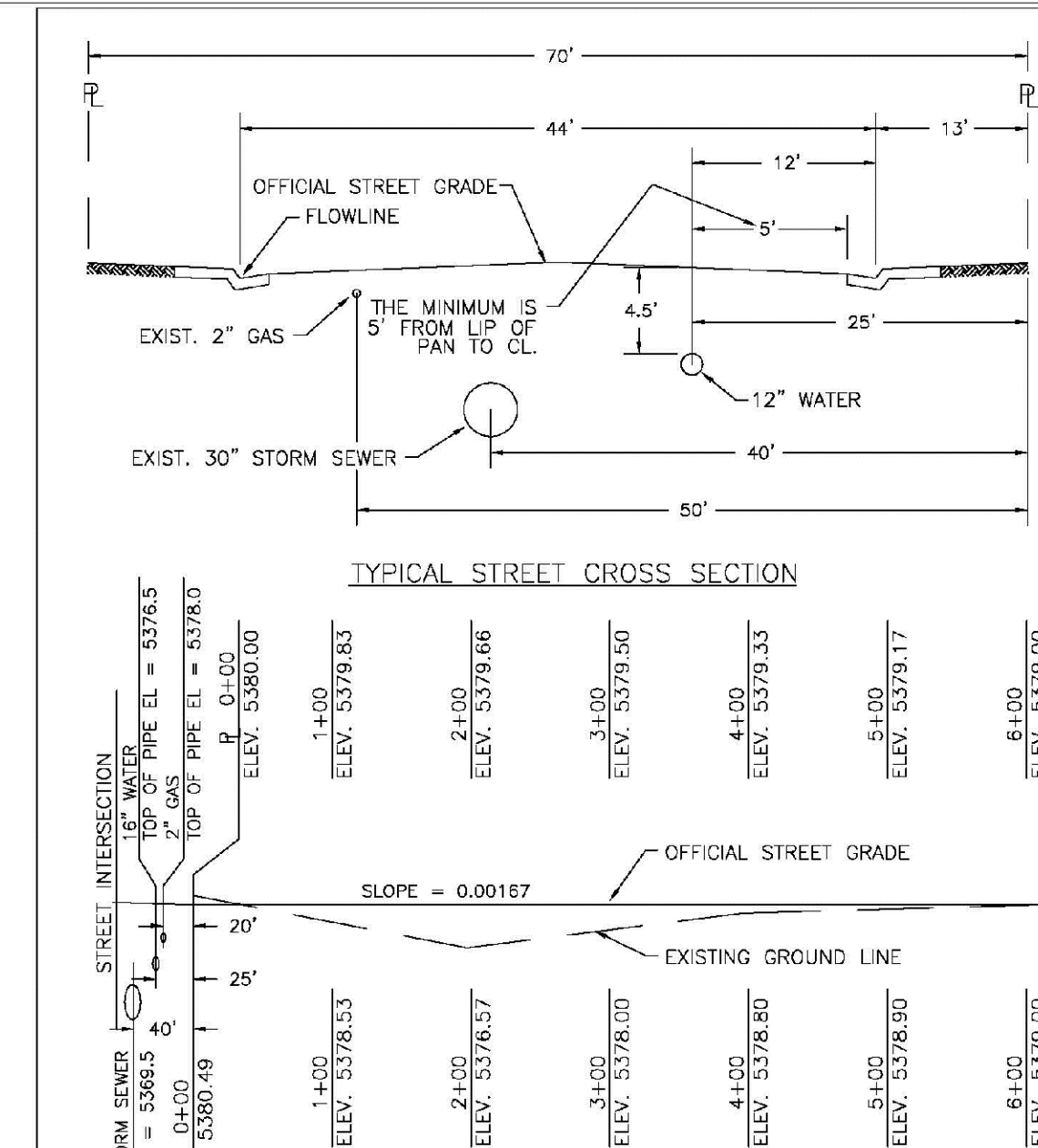
PARKER WATER & SANITATION DISTRICT

WATER DISTRIBUTION SYSTEM

TYPICAL PLAN

2016 REVISION

SHEET W2.1



TYPICAL STREET Q PROFILE

1. SEE "TYPICAL STREET CROSS SECTION - TYPICAL STREET Q PROFILE" DRAWING.
2. ALL FIRE HYDRANTS TO BE LOCATED AT POINTS OTHER THAN CORNER INTERSECTIONS SHALL BE INSTALLED AT A LOT LINE EXTENDED.

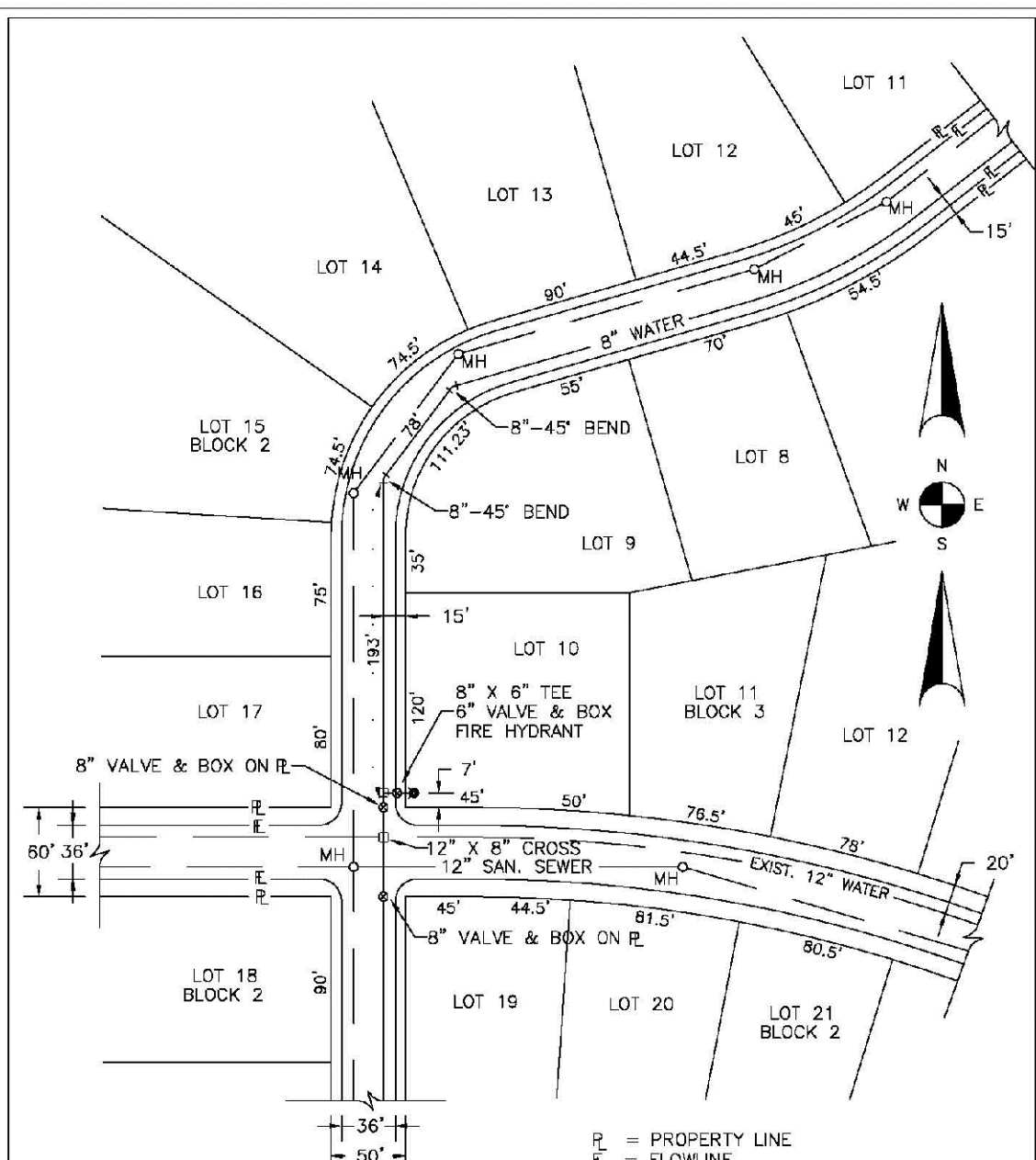
PARKER WATER & SANITATION DISTRICT

WATER DISTRIBUTION SYSTEM

TYPICAL STREET Q PROFILE

2016 REVISION

SHEET W2.2



TYPICAL PLAN FOR CURVED STREETS

NOTE: WATER AND SEWER MAY NEVER BE CLOSER THAN 10" HORIZONTALLY AND MUST MAINTAIN A MINIMUM OF 5" FROM THE LIP OF PAN ON THE GUTTER.

PARKER WATER & SANITATION DISTRICT

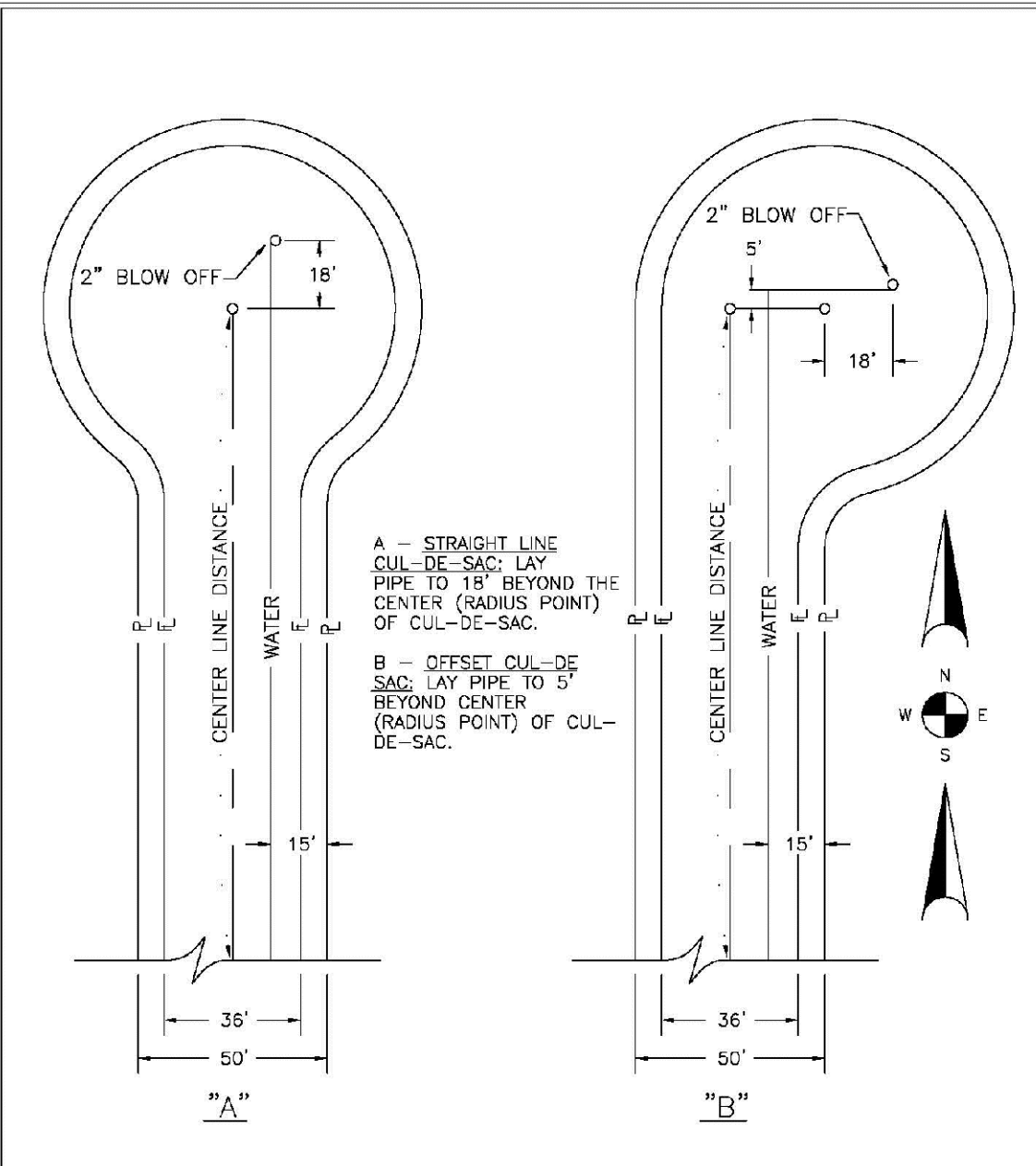
WATER DISTRIBUTION SYSTEM

TYPICAL PLAN FOR CURVED STREETS

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

2016 REVISION

SHEET W2.3



TYPICAL PLAN FOR CUL-DE-SACS

PARKER WATER & SANITATION DISTRICT

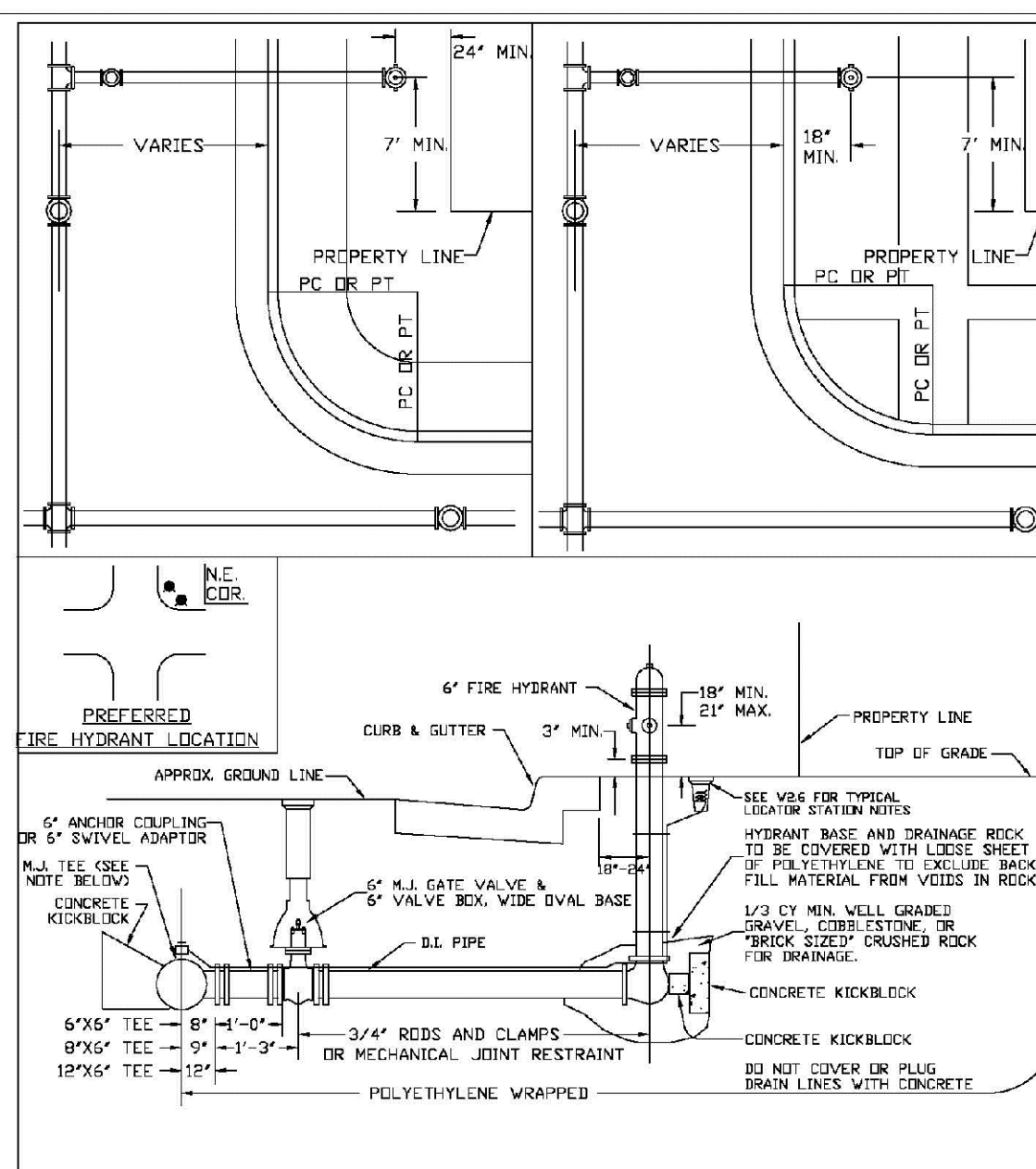
WATER DISTRIBUTION SYSTEM

TYPICAL PLAN FOR CUL-DE-SACS

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

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SHEET W2.4



PARKER WATER & SANITATION DISTRICT

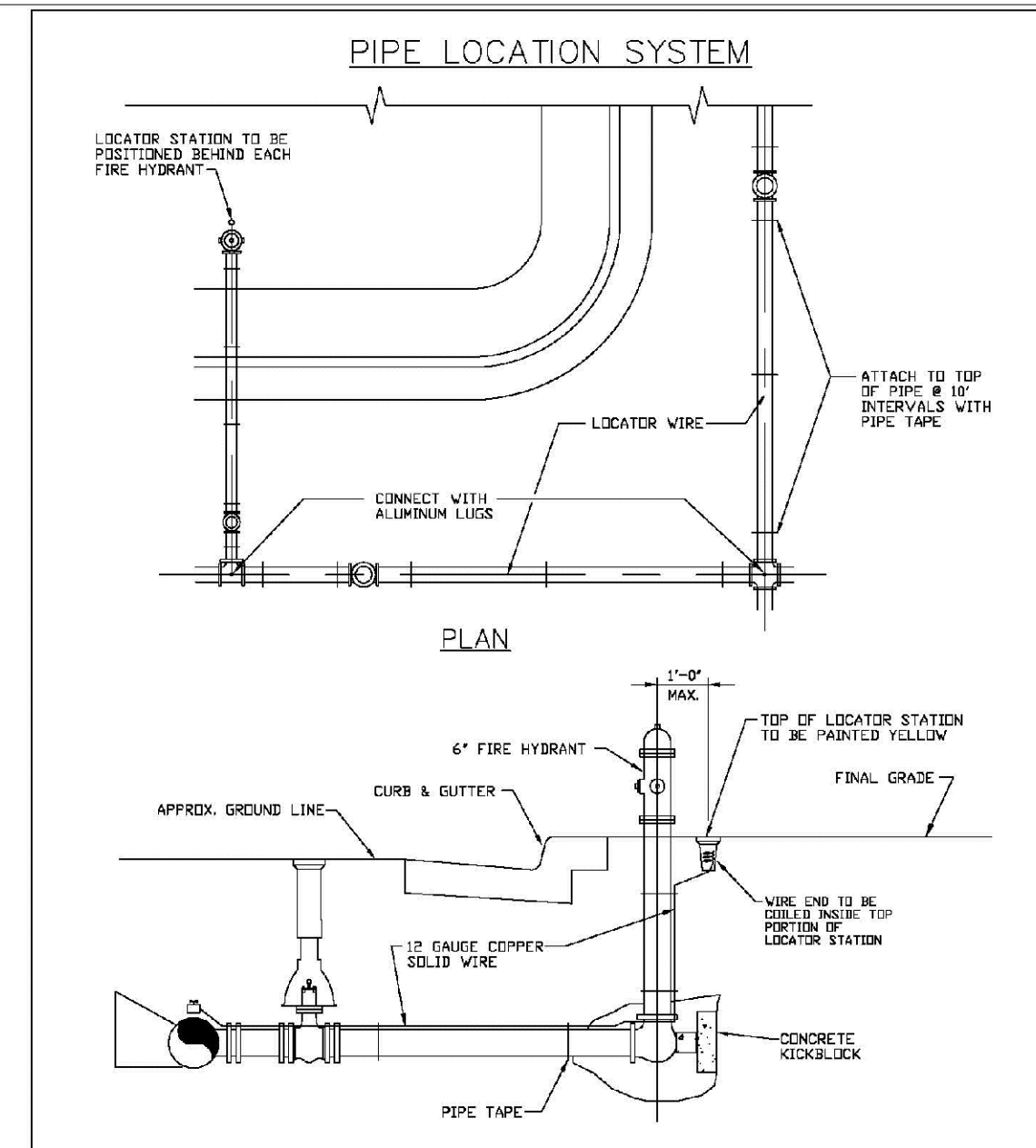
FIRE HYDRANTS

LOCATION & INSTALLATION

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

2016 REVISION

SHEET W2.5



PIPE LOCATION SYSTEM

1. FOR USE IN ALL DUTILE SOIL AND PIPE 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 PERMANENT ACCEPTANCE.

PARKER WATER & SANITATION DISTRICT

LOCATOR WIRE DETAILS

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

2016 REVISION

SHEET W2.6



