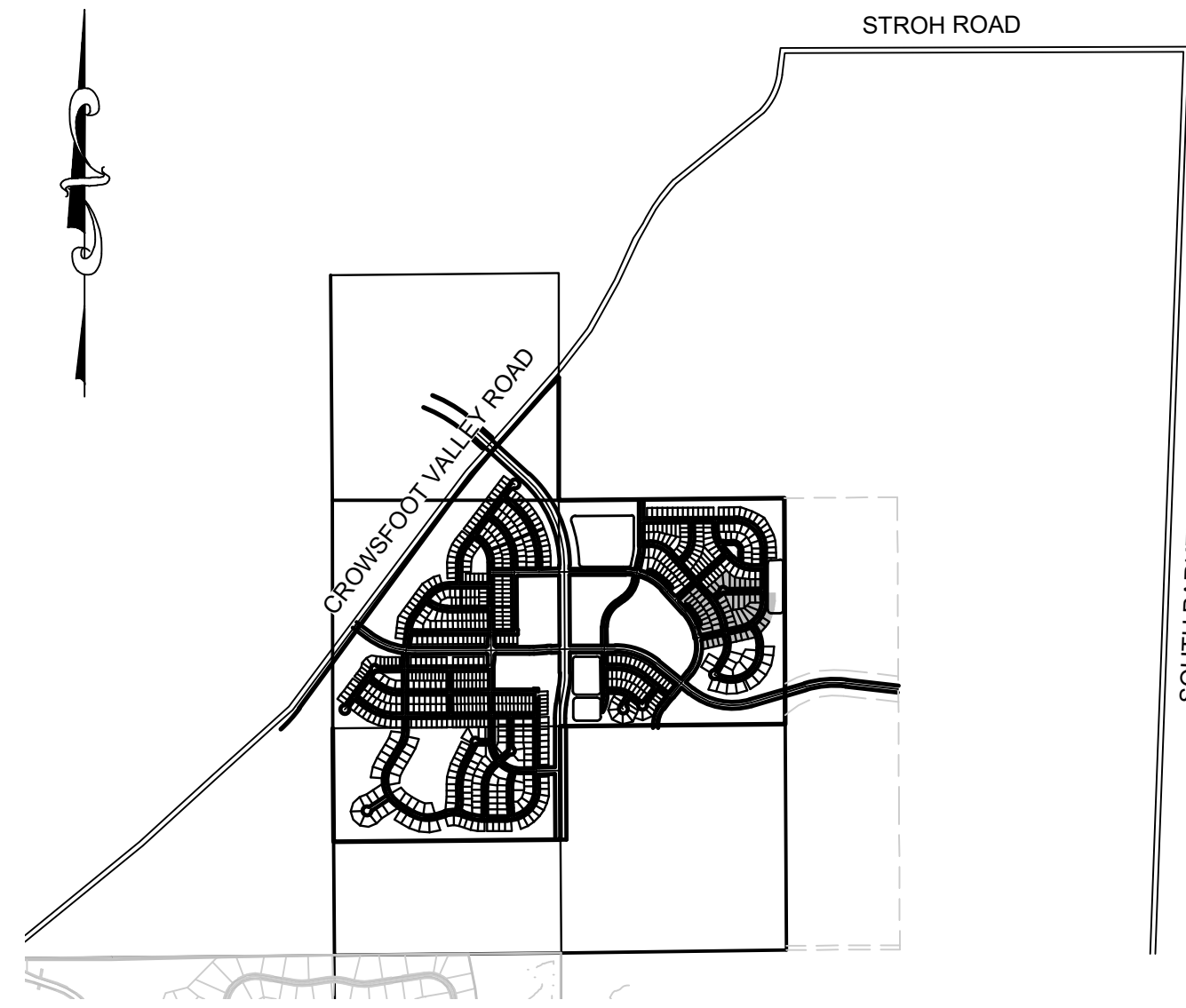


TRAILS AT CROWFOOT FILING 11

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 & FIELD MINT LANE
5	SANITARY P&P FIELD MINT AVENUE
6	SANITARY P&P FIELD MINT POINT
7	SANITARY P&P ALPINE PHLOX LANE
8	SANITARY P&P BLACK SEDGE CIRCLE
9	WATER P&P BEEBALM AVENUE & FIELD MINT AVENUE
10	WATER P&P FIELD MINT AVENUE
11	WATER P&P FIELD MINT POINT
12	WATER P&P ALPINE PHLOX LANE
13	WATER P&P BLACK SEDGE CIRCLE
14	SANITARY SEWER DETAILS
15	SANITARY SEWER DETAILS
16	SANITARY SEWER DETAILS
17	WATER DETAILS
18	WATER DETAILS
19	WATER DETAILS
20	WATER DETAILS
21	WATER DETAILS
22	WATER DETAILS
23	WATER DETAILS



VICINITY MAP
SCALE: 1" = 2000'

MATERIALS LIST		
DESCRIPTION	QUANTITY	UNIT
8" SEWER (PCV)	2,507	L.F.
4' DIA MANHOLE	21	EA.
4" SEWER SERVICE	59	EA.
CONNECTION TO EXISTING MAIN	2	EA.
6" WATERPIPE (DIP)	84	L.F.
8" WATERPIPE (C900)	3,027	L.F.
6" GATE VALVE	5	EA.
8" GATE VALVE	13	EA.
8" MISC. FITTINGS	25	EA.
8" CAP WITH BLOW OFF VALVE	3	EA.
FIRE HYDRANT WITH 6" LEAD	5	EA.
DOMESTIC WATER SERVICE WITH METER	59	EA.
CONNECTION TO EXISTING MAIN	3	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.

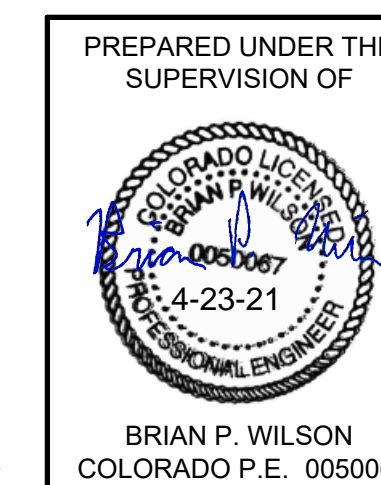
BY: _____
(DISTRICT REPRESENTATIVE)

DATE SIGNED: _____

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____
(DISTRICT ENGINEER)

DATE SIGNED: _____



BRIAN P. WILSON
COLORADO P.E. 0050067

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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DEVELOPER

HR 935 LLC
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, A WESTWOOD TEAM
10333 E. DRY CREEK RD. STE 240
ENGLEWOOD, CO 80112
TEL: (720) 482-9526
CONTACT: JIM JANNICKE

UTILITY DISTRICT

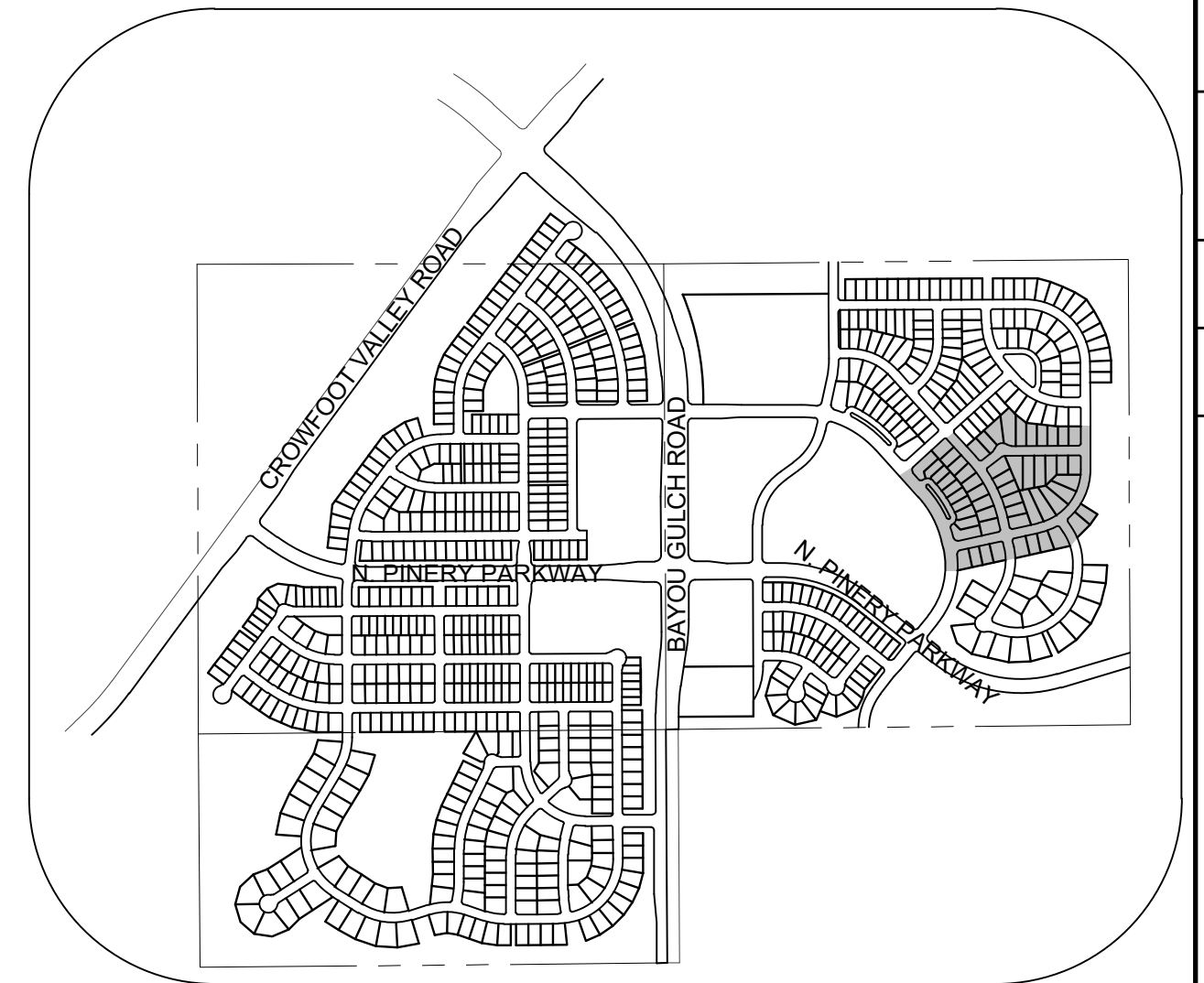
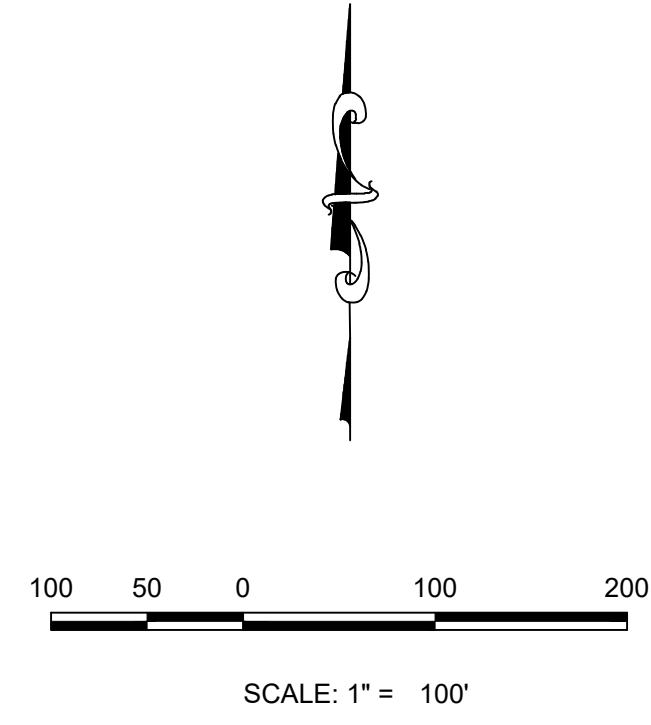
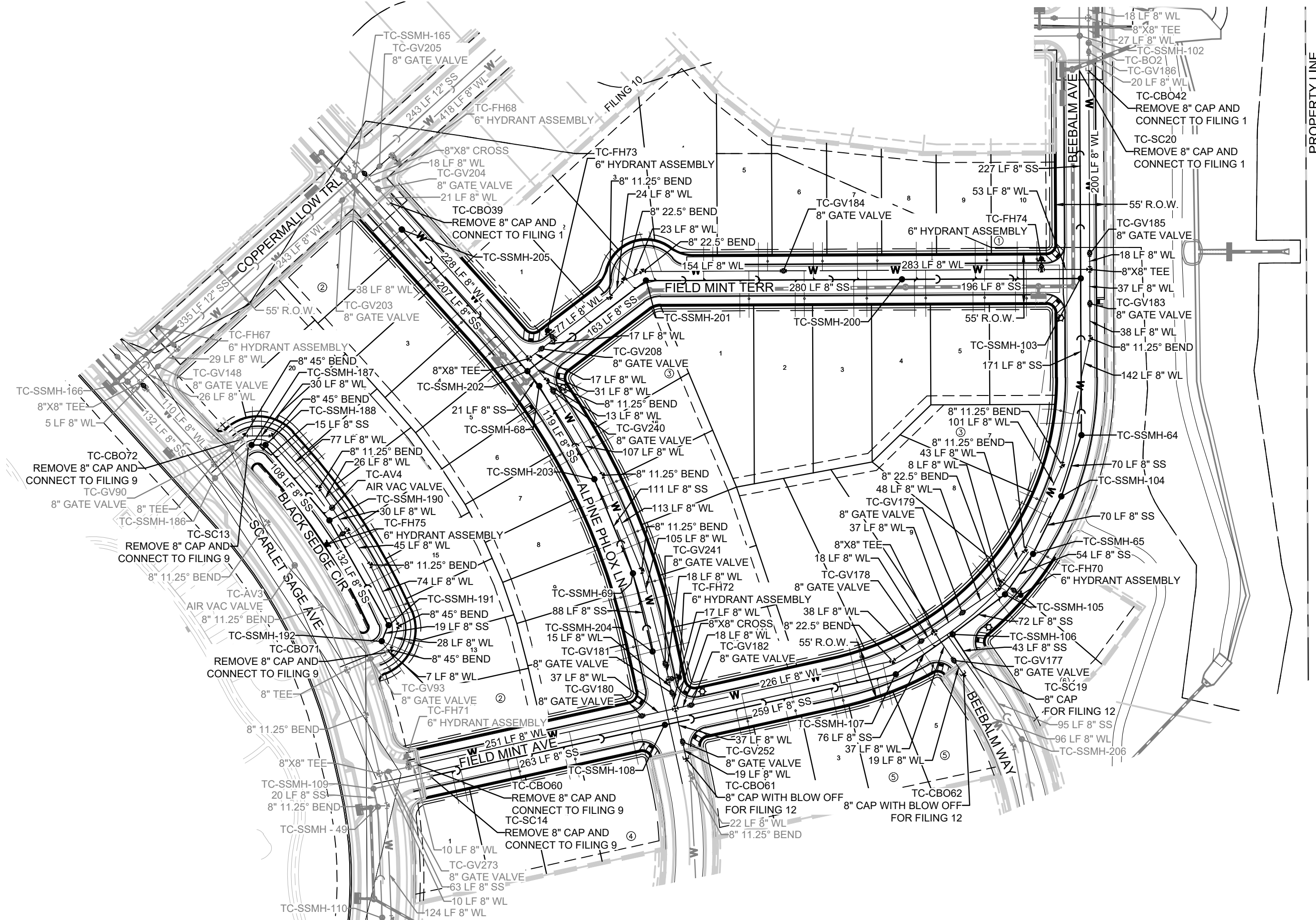
PARKER WATER AND
SANITATION DISTRICT
18100 E. WOODMAN DRIVE
PARKER, CO 80134
TEL: (303) 841-4627



N:\PROJECTS\SSR\SSR\ENGINEERING\SSR\SET\SSR\SET\11\PARKER WATER AND SANITATION\F11 COVER.DWG, DATURAND, 4/22/2021 11:27 AM

SHEET NUMBER	1
DRAWN BY:	KJD
CHECKED BY:	JU
DATE:	SEPTEMBER 2017
SCALE:	AS SHOWN
FILE NO.:	8130283701
TRAILS AT CROWFOOT FILING 11 CONSTRUCTION DRAWINGS COVER SHEET	
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	
No.	Revisions
Date	Appr.
Date	Appr.
Date	Appr.
Date	Appr.

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F11,B1,L1	FIELD MINT PT	10+86.86	10+96.03
F11,B1,L2	FIELD MINT PT	11+48.45	11+55.50
F11,B1,L3	FIELD MINT PT	11+72.05	11+79.41
F11,B1,L4	FIELD MINT PT	12+25.65	12+35.65
F11,B1,L5	FIELD MINT PT	12+85.65	12+95.65
F11,B1,L6	FIELD MINT PT	13+45.65	13+55.65
F11,B1,L7	FIELD MINT PT	13+94.01	14+15.65
F11,B1,L8	FIELD MINT PT	14+58.49	14+75.65
F11,B1,L9	FIELD MINT PT	15+22.97	15+35.65
F11,B1,L10	FIELD MINT PT	15+68.82	15+90.41
F11,B2,L1	ALPINE PHLOX LN	18+94.35	19+04.49
F11,B2,L2	ALPINE PHLOX LN	19+49.49	19+59.63
F11,B2,L3	ALPINE PHLOX LN	20+04.10	20+14.14
F11,B2,L4	ALPINE PHLOX LN	20+50.23	20+60.02
F11,B2,L5	ALPINE PHLOX LN	20+91.61	20+81.08
F11,B2,L6	ALPINE PHLOX LN	21+57.03	21+45.61
F11,B2,L7	ALPINE PHLOX LN	22+08.99	21+98.84
F11,B2,L8	ALPINE PHLOX LN	22+64.44	22+74.75
F11,B2,L9	ALPINE PHLOX LN	23+26.39	23+13.65
F11,B2,L10	ALPINE PHLOX LN	23+86.94	23+75.30
F11,B2,L11	ALPINE PHLOX LN	24+40.85	24+30.56
F11,B2,L12	BLACK SEDGE CIR	13+44.85	13+56.05
F11,B2,L13	BLACK SEDGE CIR	13+44.85	13+32.96
F11,B2,L14	BLACK SEDGE CIR	13+12.24	13+03.58
F11,B2,L15	BLACK SEDGE CIR	12+69.52	12+58.14
F11,B2,L16	BLACK SEDGE CIR	12+21.29	12+11.94
F11,B2,L17	BLACK SEDGE CIR	11+77.36	11+63.60
F11,B2,L18	BLACK SEDGE CIR	11+27.08	11+17.05
F11,B2,L19	BLACK SEDGE CIR	10+96.09	11+07.13
F11,B2,L20	BLACK SEDGE CIR	10+69.86	10+59.55
F11,B2,L21	BLACK SEDGE CIR	10+52.47	10+41.49
F11,B3,L1	FIELD MINT PT	12+65.05	12+75.05
F11,B3,L2	FIELD MINT PT	13+25.65	13+35.65
F11,B3,L3	FIELD MINT PT	13+89.68	14+04.01
F11,B3,L4	FIELD MINT PT	14+56.19	14+68.49
F11,B3,L5	FIELD MINT PT	15+20.29	15+32.97
F11,B3,L6	FIELD MINT PT	15+66.82	15+78.82
F11,B3,L7	FIELD MINT PT	19+33.10	19+41.88
F11,B3,L8	FIELD MINT AVE	18+24.56	18+37.44
F11,B3,L9	FIELD MINT AVE	17+21.59	17+45.45
F11,B3,L10	FIELD MINT AVE	16+33.91	16+42.10
F11,B3,L11	FIELD MINT AVE	15+41.36	15+52.51
F11,B3,L12	ALPINE PHLOX LN	24+40.85	24+24.97
F11,B3,L13	ALPINE PHLOX LN	23+84.93	23+66.94
F11,B3,L14	ALPINE PHLOX LN	23+24.39	23+11.68
F11,B3,L15	ALPINE PHLOX LN	22+62.44	22+53.03
F11,B3,L16	ALPINE PHLOX LN	22+11.00	22+00.82
F11,B3,L17	ALPINE PHLOX LN	21+55.03	21+43.62
F11,B4,L1	FIELD MINT AVE	10+87.86	10+97.94
F11,B4,L2	FIELD MINT AVE	11+50.26	11+60.34
F11,B4,L3	FIELD MINT AVE	12+12.66	12+22.75
F11,B4,L4	FIELD MINT AVE	12+88.99	12+99.08
F11,B5,L1	FIELD MINT AVE	14+05.95	14+16.06
F11,B5,L2	FIELD MINT AVE	14+59.51	14+69.62
F11,B5,L3	FIELD MINT AVE	15+12.73	15+22.99
F11,B5,L4	FIELD MINT AVE	15+63.39	15+75.40
F11,B5,L5	FIELD MINT AVE	16+10.02	16+19.34
F11,B6,L1	FIELD MINT AVE	17+19.66	17+30.95
F11,B6,L2	FIELD MINT AVE	17+74.21	17+81.57



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-FLOW	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 LATERAL W/ METER
---	PROPOSED SIDEWALK	---	SECTION LINE
---	PROPOSED SIDEWALK RAMP	---	FILING BOUNDARY
10.00	EXISTING ELEVATION	---	FO EXISTING FIBER OPTIC LINE
10.00	PROPOSED DESIGN ELEVATION	---	OH EXISTING OVERHEAD POWER
⊕	PROPOSED STORM DRAIN INLET	---	TEL EXISTING TELEPHONE LINE
⊕	PROPOSED STORM DRAIN MANHOLE	---	PWS D EASEMENT
		---	TYP. EASEMENT

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
CB0	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	ROP	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
FH	FIRE HYDRANT	SS	SANITARY SEWER
FL	FLOW LINE	STA	STATION
GV	GATE VALVE	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 TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGN, 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 REPAIR(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.

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: _____ DATE _____
(DISTRICT REPRESENTATIVE)

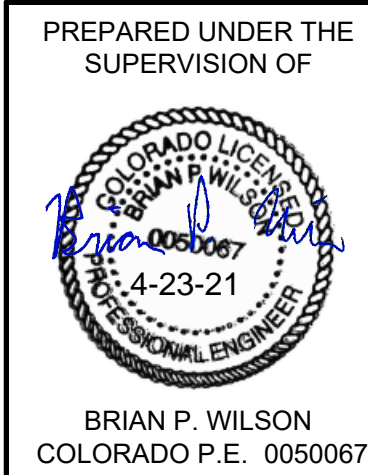
APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ DATE _____
(DISTRICT ENGINEER)

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.

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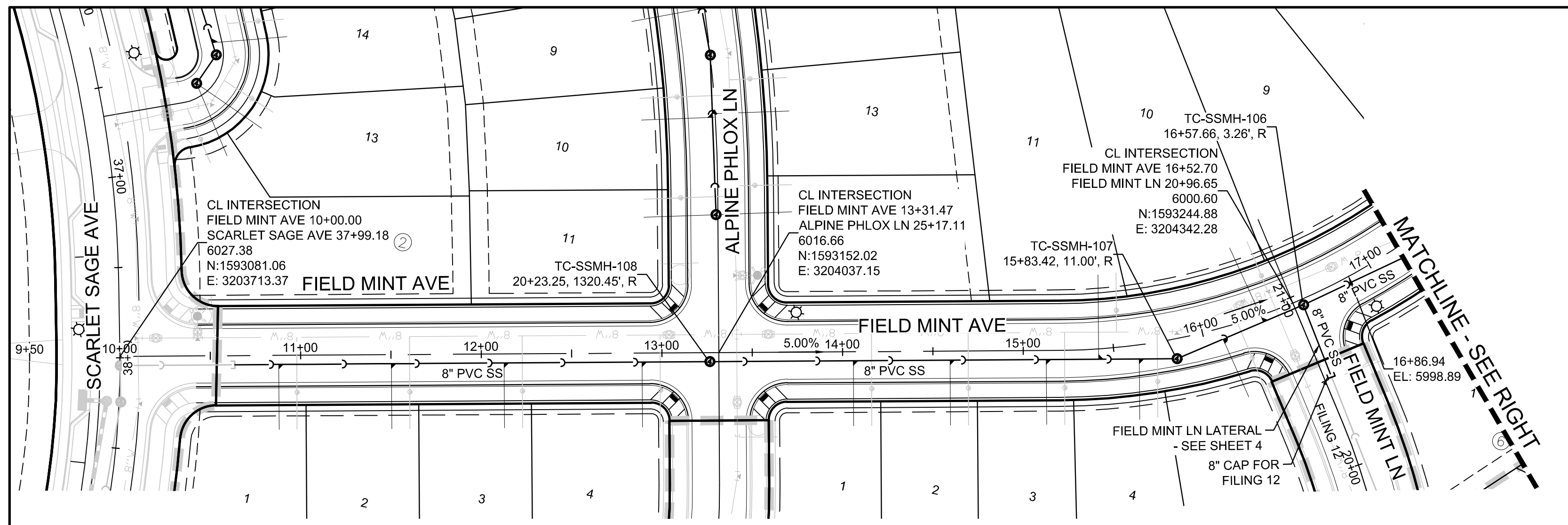
FIRE DEPARTMENT APPROVAL
ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

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

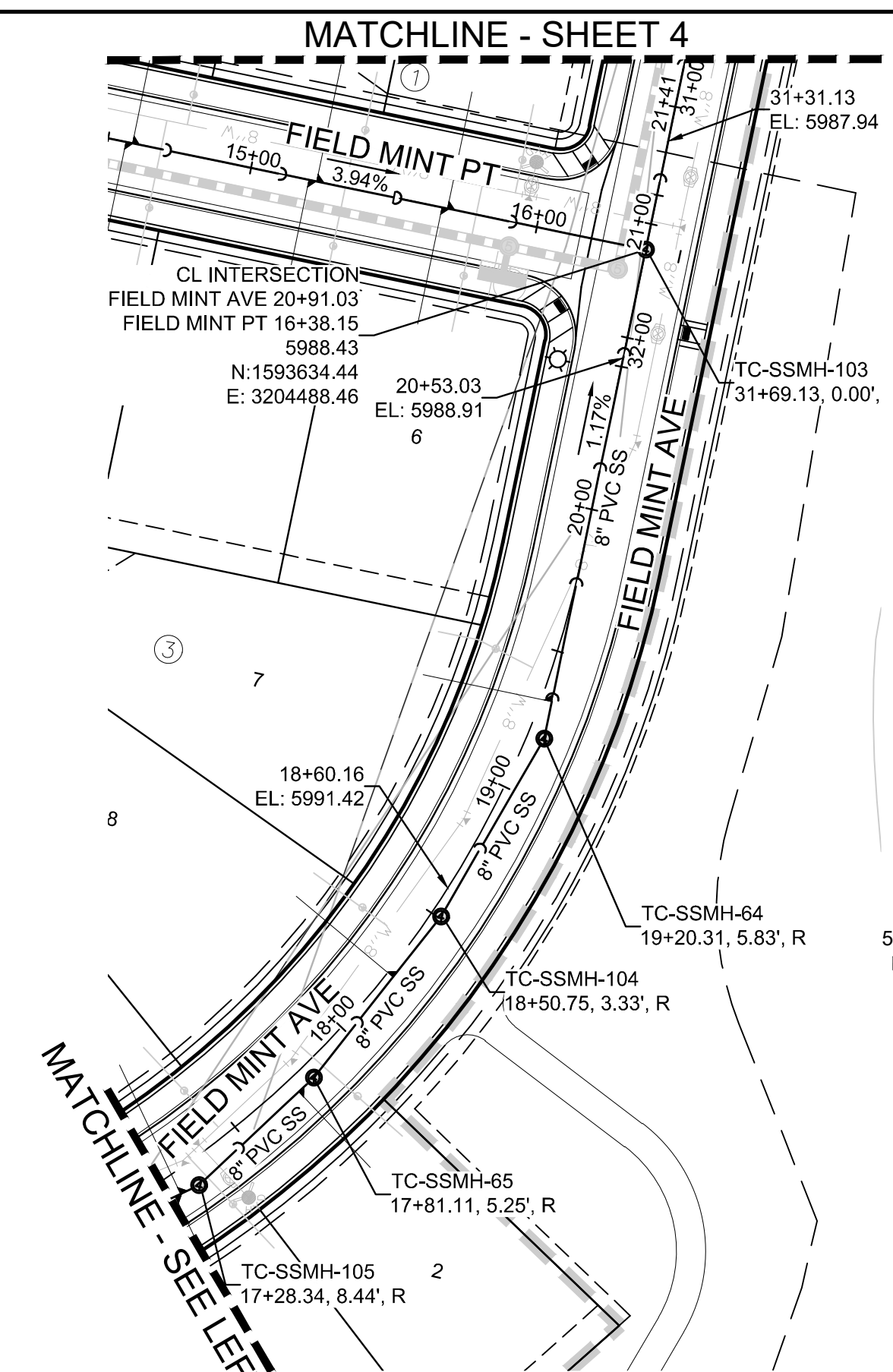


10333 E. Dry Creek Rd Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjpa.com	Revisions	No.	Date	Appr.	Date
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112					
TRAILS AT CROWFOOT FILING 11 CONSTRUCTION DRAWINGS AREA UTILITY PLAN					
SCALE: AS SHOWN					
DRAWN BY: JLR	CHECKED BY: JLU	FILE NO: 8130283701			
	DATE: SEPTEMBER 2017				
SHEET NUMBER	3				

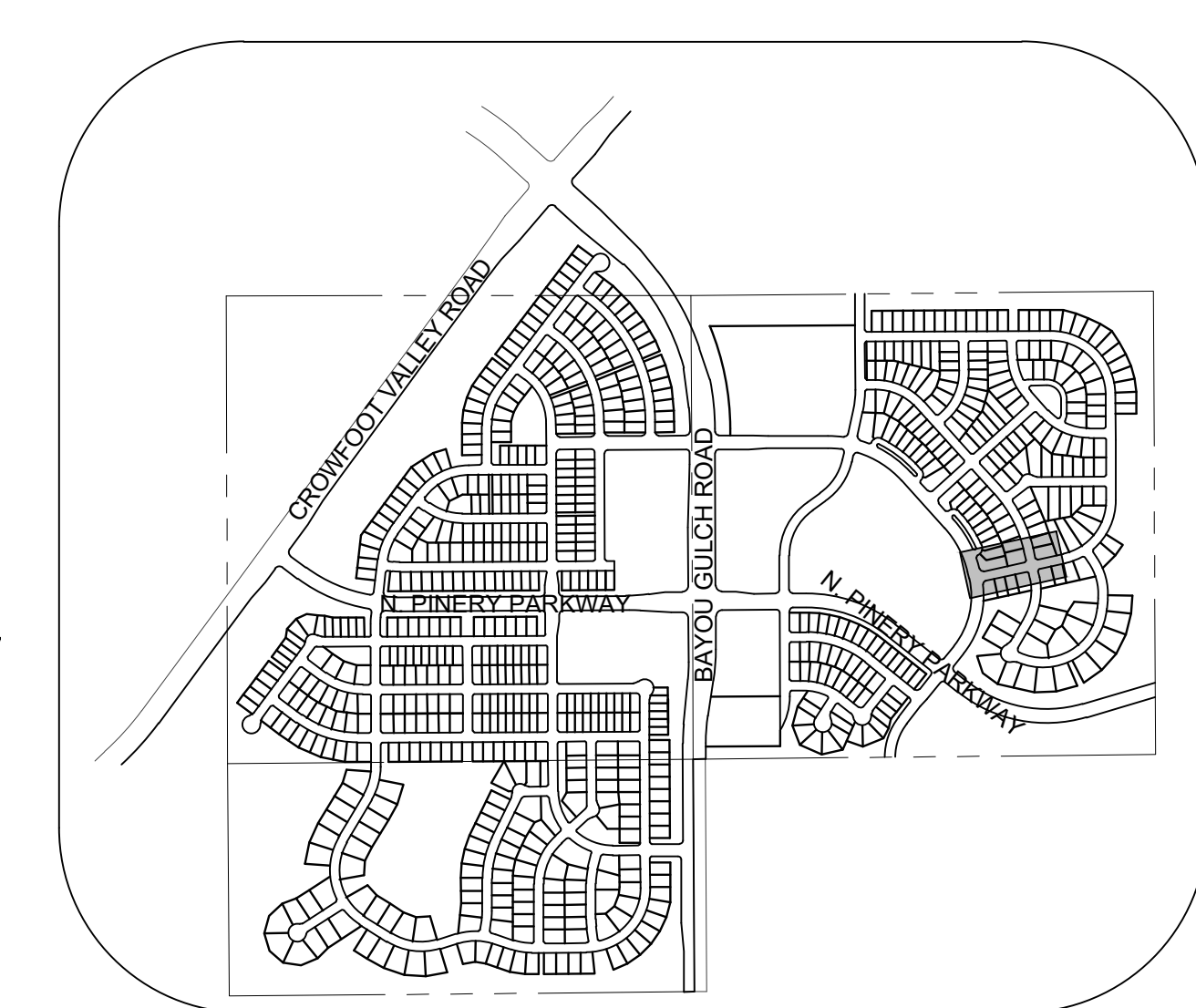
N:\PROJECTS\SSR\ENGINEERING\SSR\11PARKER WATER AND SANITATION\11 AREA UTILITY PLANS\DWG_CODEVA_4222021.11.26.AM



PLAN: FIELD MINT AVE STA: 9+50.00 TO 21+50.00
HORIZONTAL SCALE: 1" = 50'



SCALE: 1" = 50'



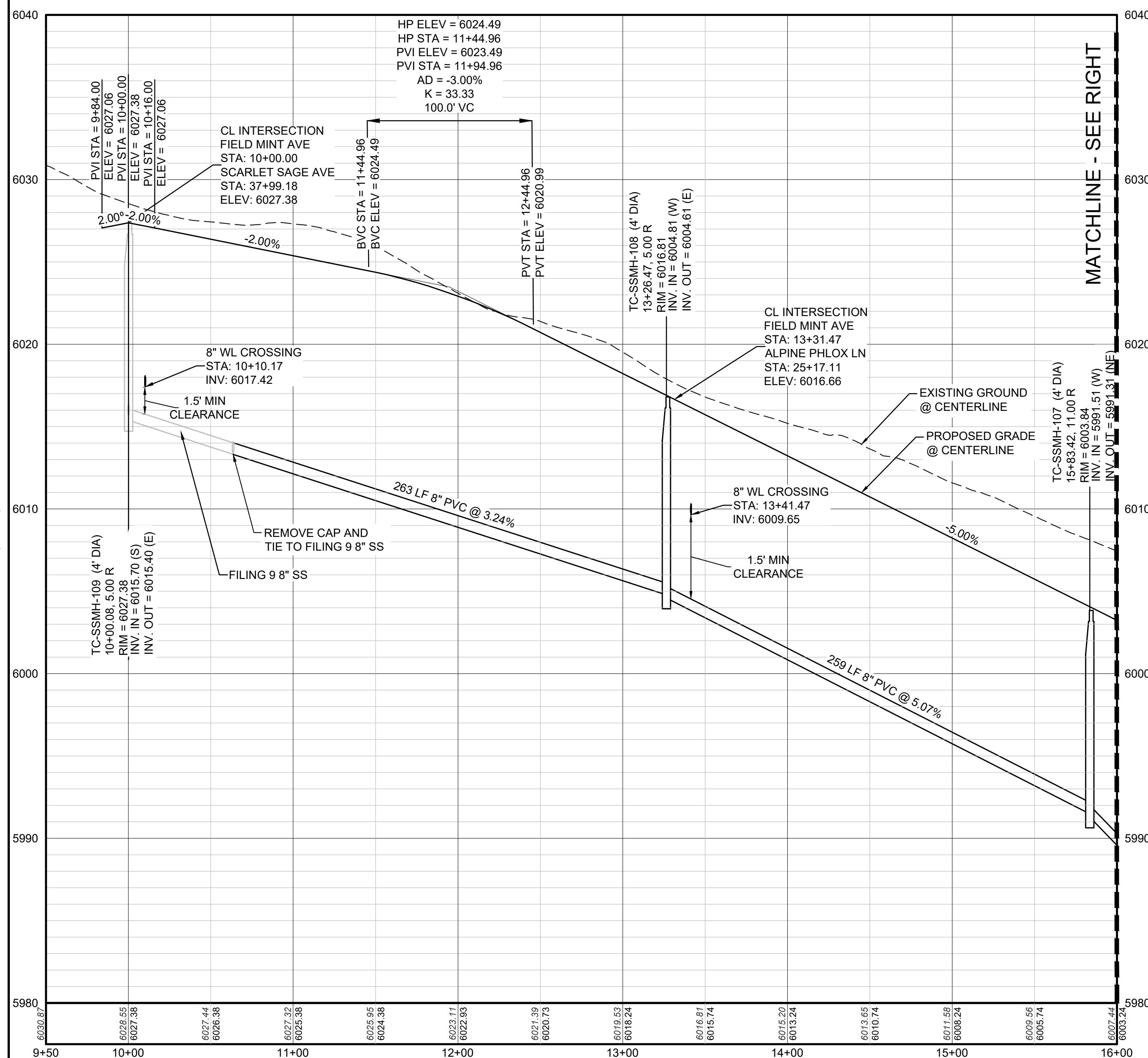
KEYMAP
N.T.S.
LEGEND

②	BLOCK NUMBER	△	PROPOSED RANGE POINT
Ⓐ	LOT TYPE	---	CENTERLINE
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⊖	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 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
⊕	PROPOSED STORM DRAIN MANHOLE	---	OPTIC LINE
		---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE
		---	PWSD EASEMENT
		---	TYP. EASEMENT

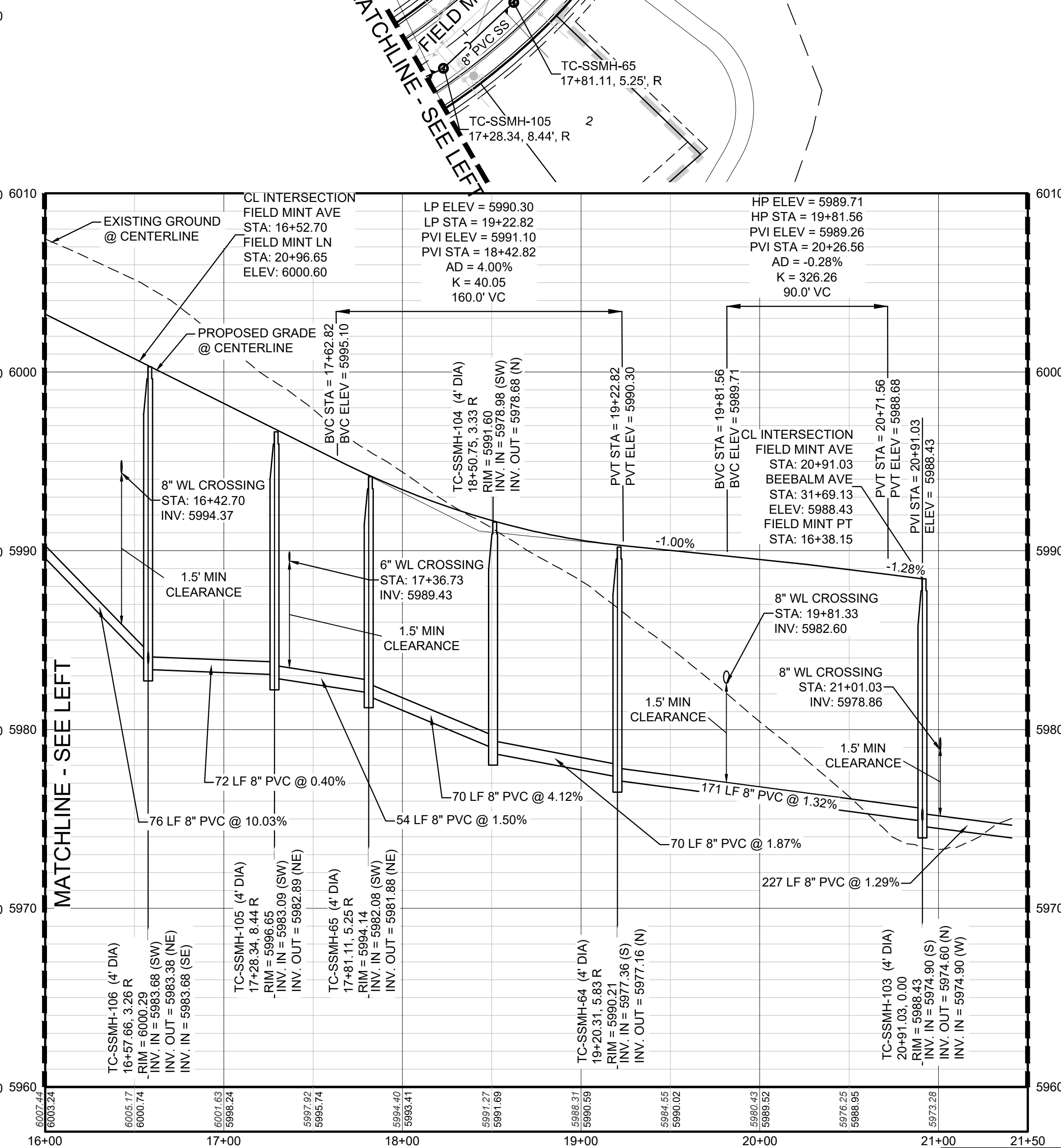
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INV	INVERT	WL	WATER LINE
K	CURVATURE COEFFICIENT	WLC	WATER LINE CONNECTION
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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



PROFILE: FIELD MINT AVE STA: 9+50.00 TO 16+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: FIELD MINT AVE STA: 16+00.00 TO 21+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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

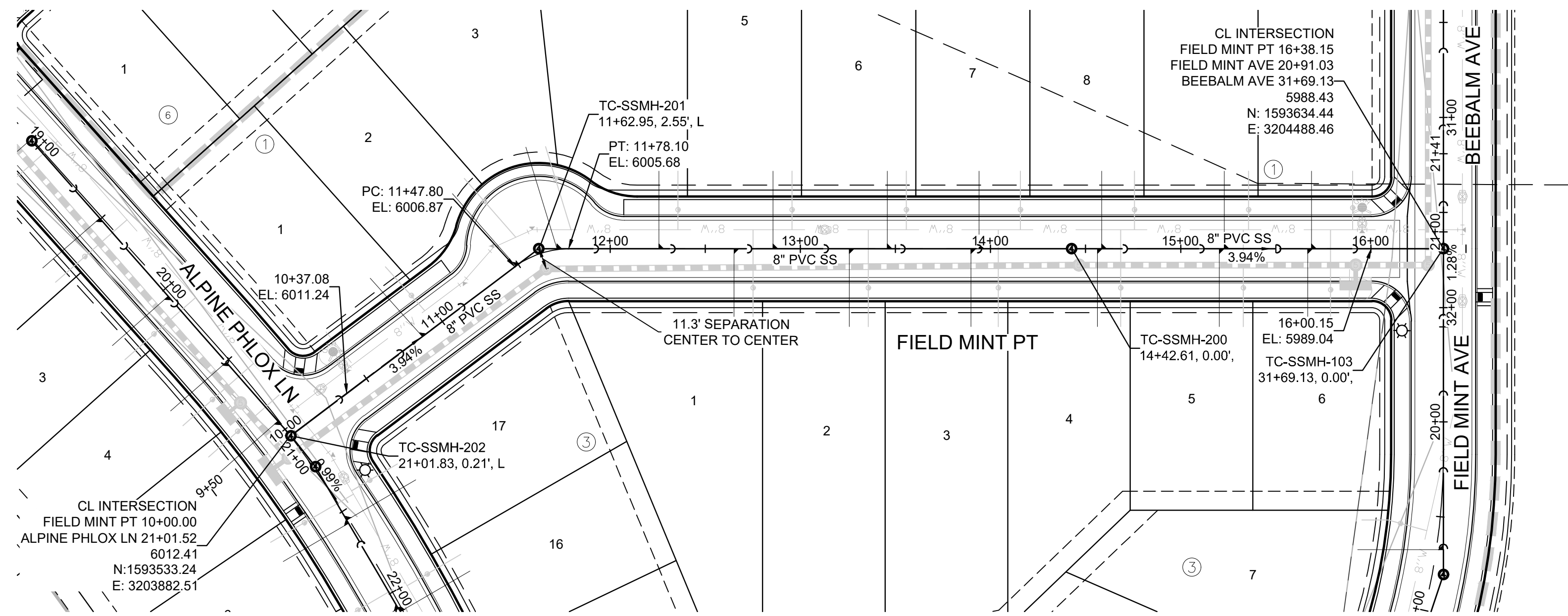
BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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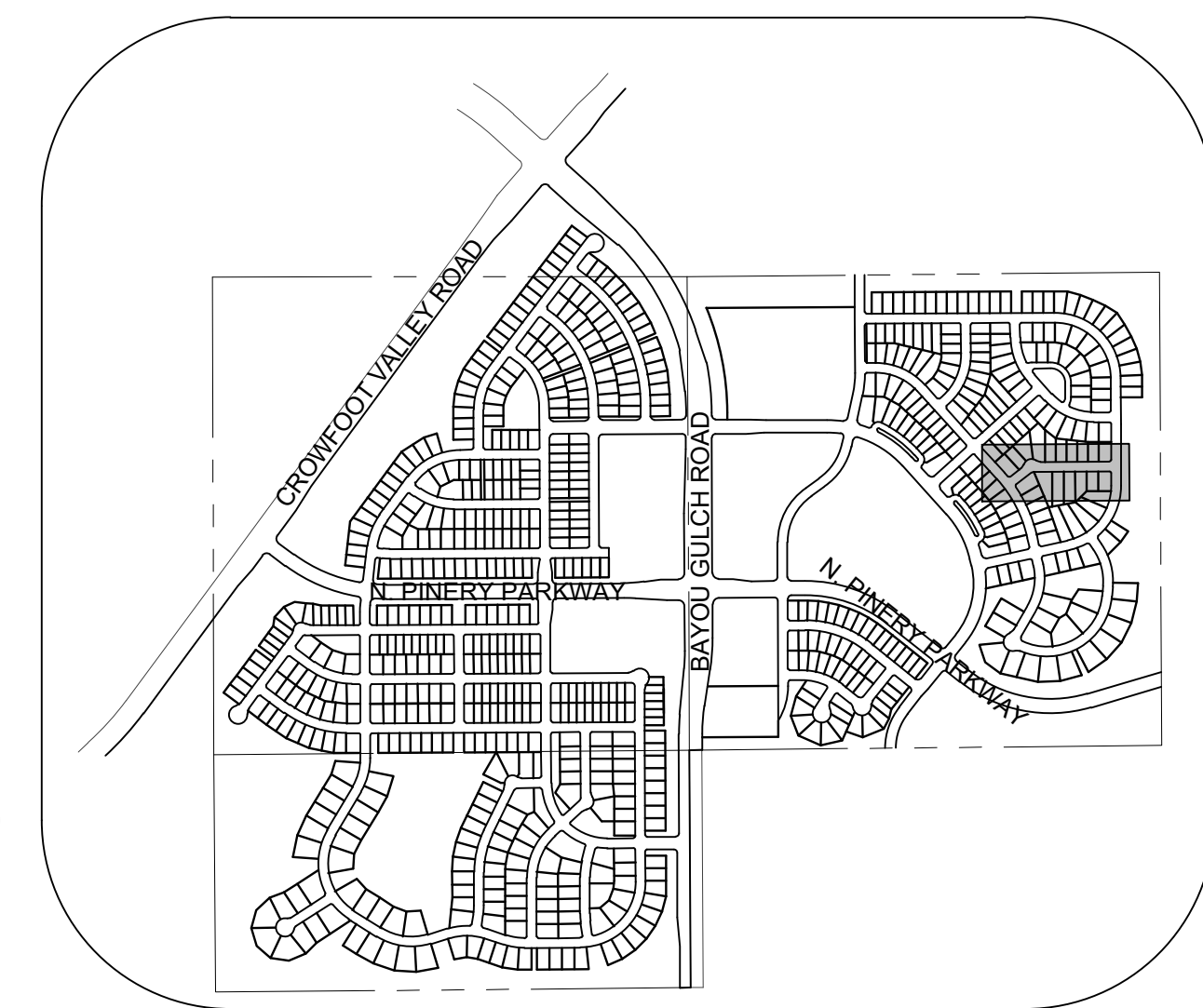
PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

SHEET NUMBER	5	
	DRAWN BY: JLR	CHECKED BY: JLU
SCALE:	AS SHOWN	
	FILE NO:	8130283701
DATE:	SEPTEMBER 2017	
	PROJECT:	TRAILS AT CROWFOOT FILING 11 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE FIELD MINT AVENUE
NO.	Revisions	
	DATE	INIT
APPROVED:		DATE
10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjpa.com		
HR 935 LLC 7352 South Alton Way CENTENNIAL, CO 80112		
a Westwood team		



PLAN: FIELD MINT POINT STA: 9+50.00 TO 17+00.00
HORIZONTAL SCALE: 1" = 50'



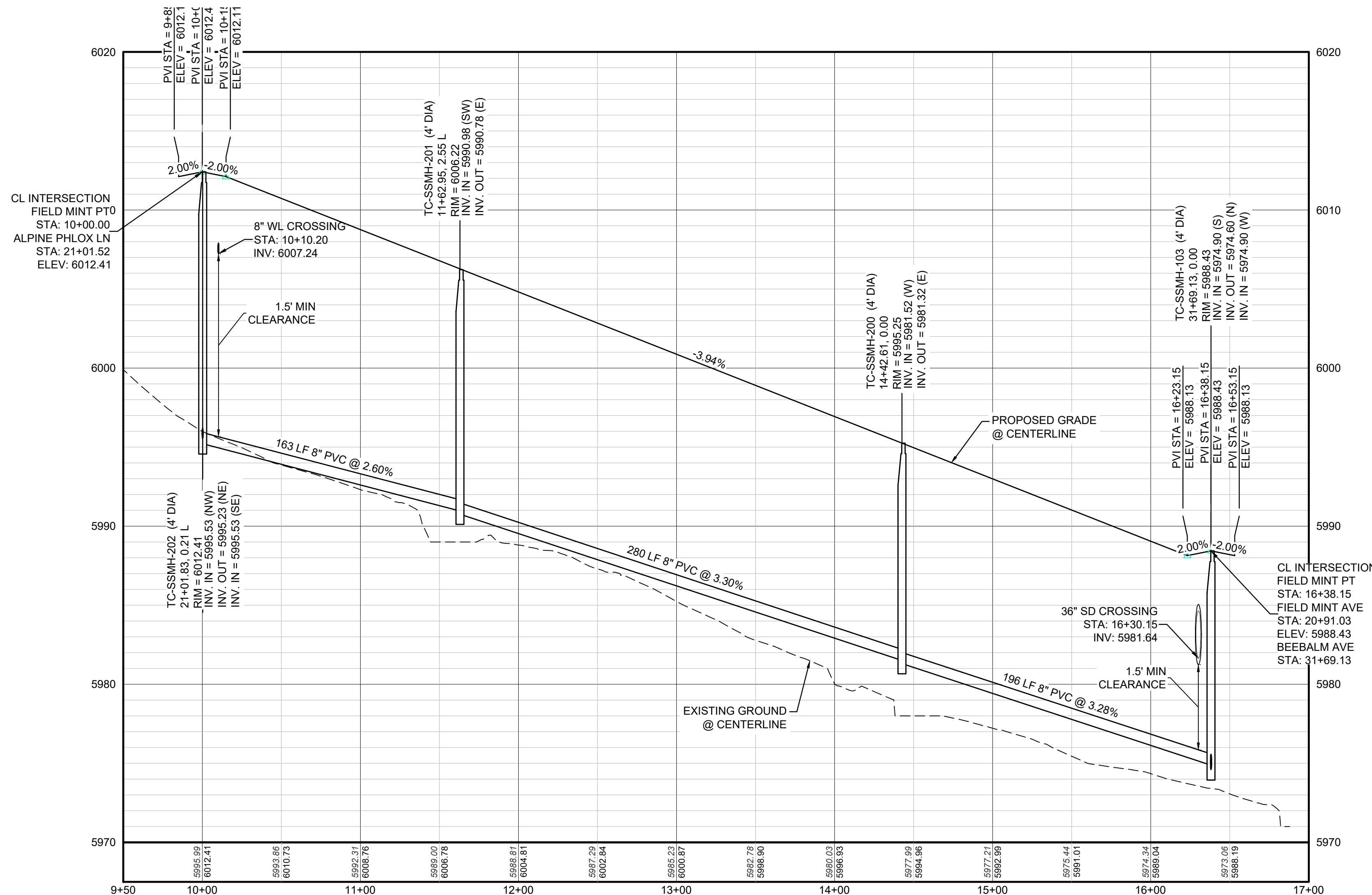
KEYMAP
N.T.S.
LEGEND

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
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD POWER
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE
		---	PWSD EASEMENT
		---	TYP. EASEMENT

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	PVT	POINT OF VERTICAL INTERSECTION
CBD	CAP WITH BLOW OFF	ROP	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RCBC	REINFORCED CONCRETE BOX CULVERT
EL	ELEVATION	ROP	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
FH	FIRE HYDRANT	SS	SANITARY SEWER
FL	FLOW LINE	STA	STATION
GV	GATE VALVE	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 TABLE



PROFILE: FIELD MINT PT STA: 9+50.00 TO 17+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.

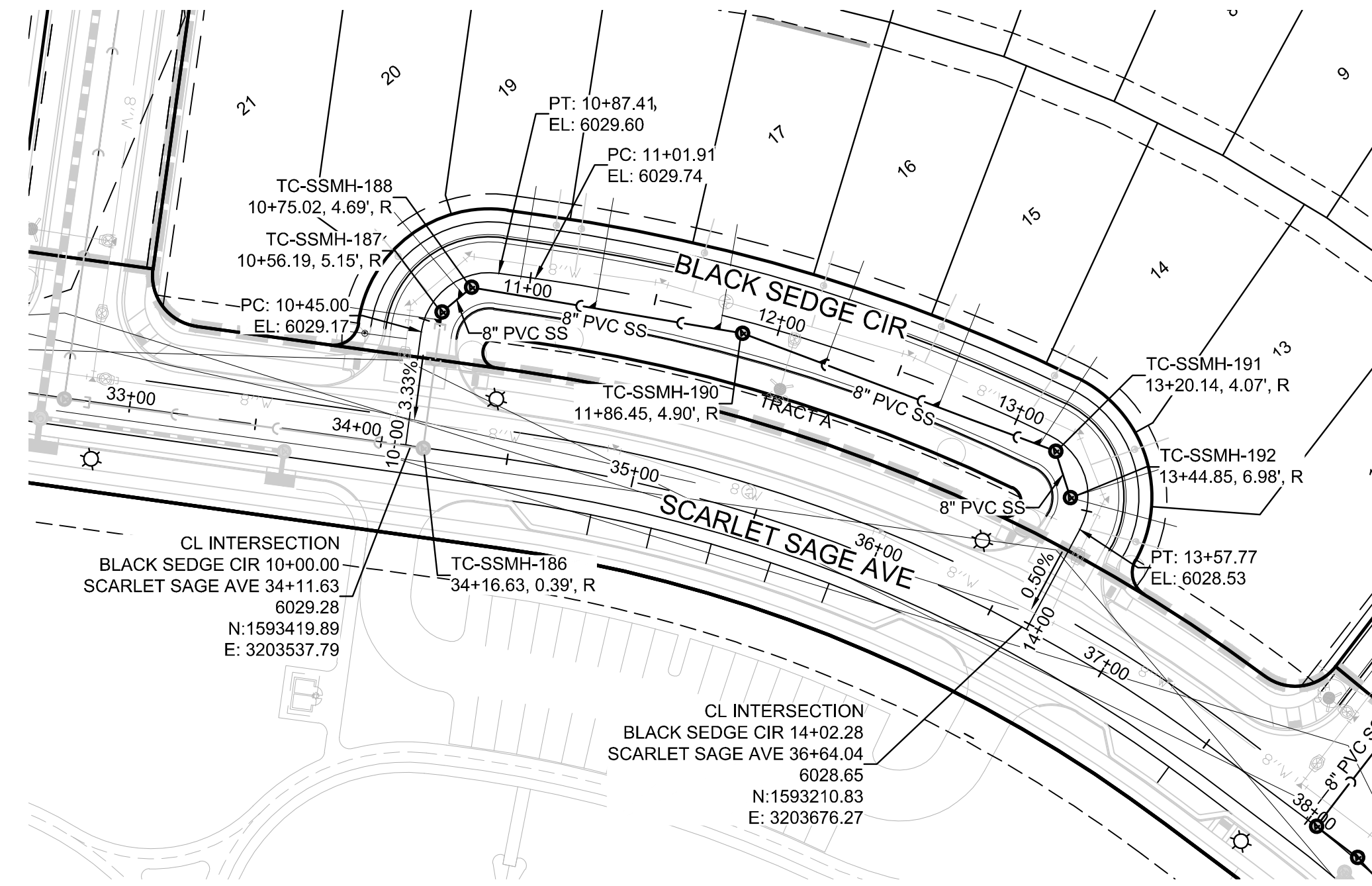
BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06"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

PREPARED UNDER THE SUPERVISION OF

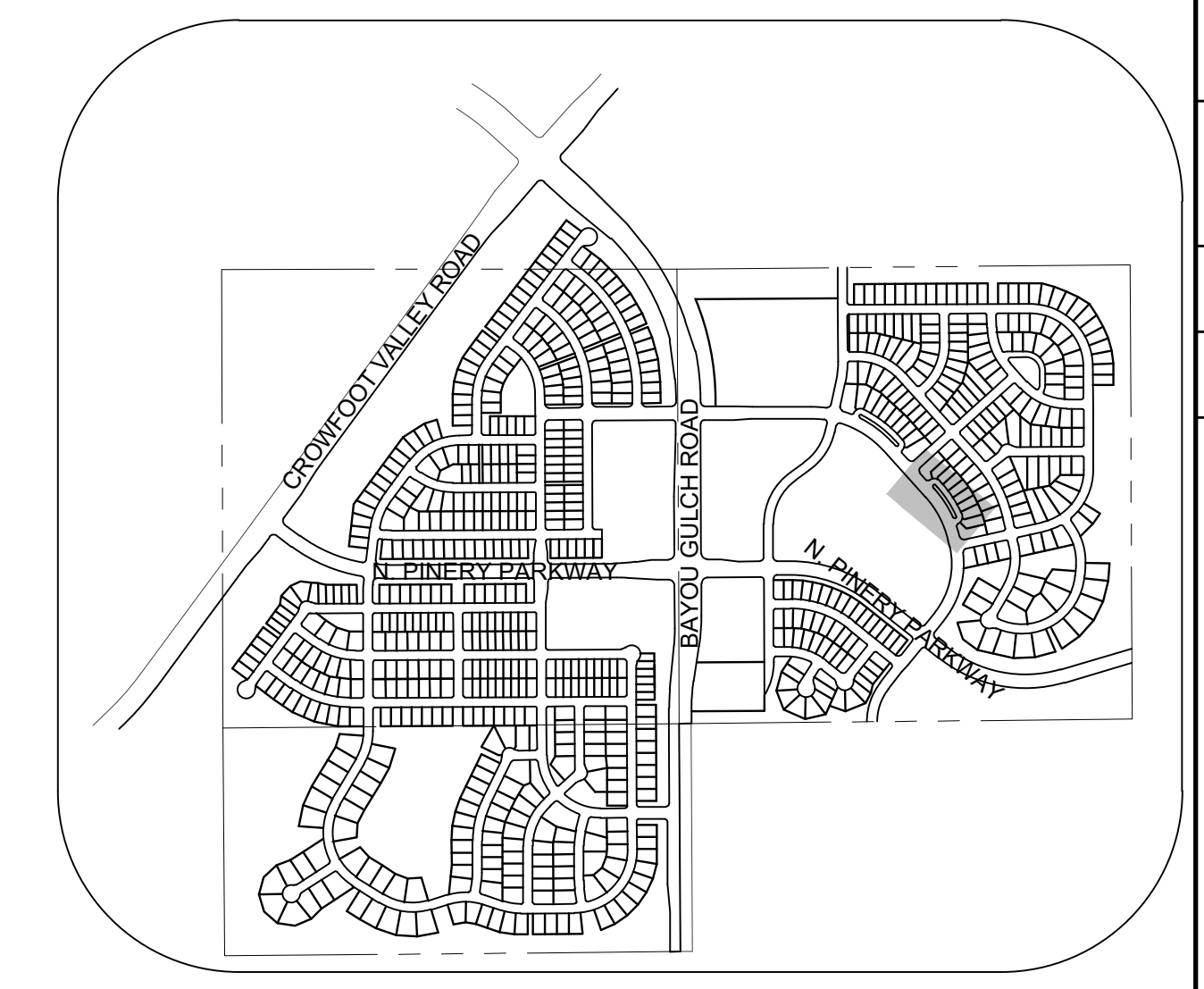
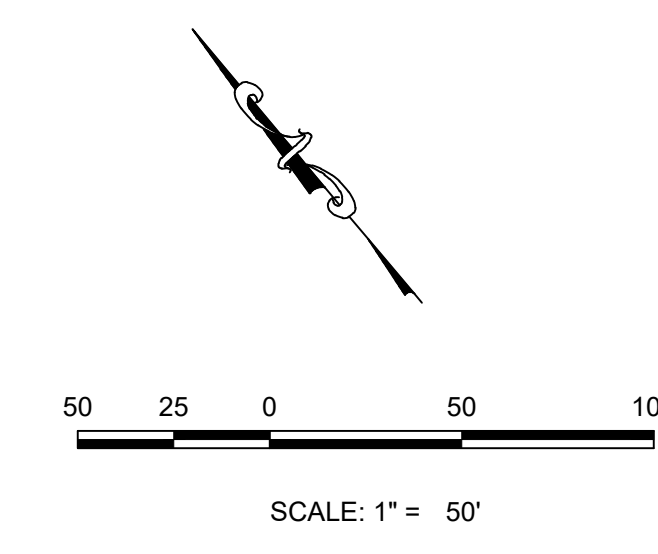
BRIAN P. WILSON
COLORADO P.E. 0050067

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1-800-922-1987

SHEET NUMBER	6	
	DRAWN BY: JLR	CHECKED BY: JLU
SCALE:	AS SHOWN	
	FILE NO:	8130283701
DATE:	SEPTEMBER 2017	
	TRAILS AT CROWFOOT FILING 11 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE FIELD MINT POINT	
Revisions	No.	Date
	Appr.	Date
10333 E. Dry Creek Rd Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjps.com		
a Westwood team		
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112		

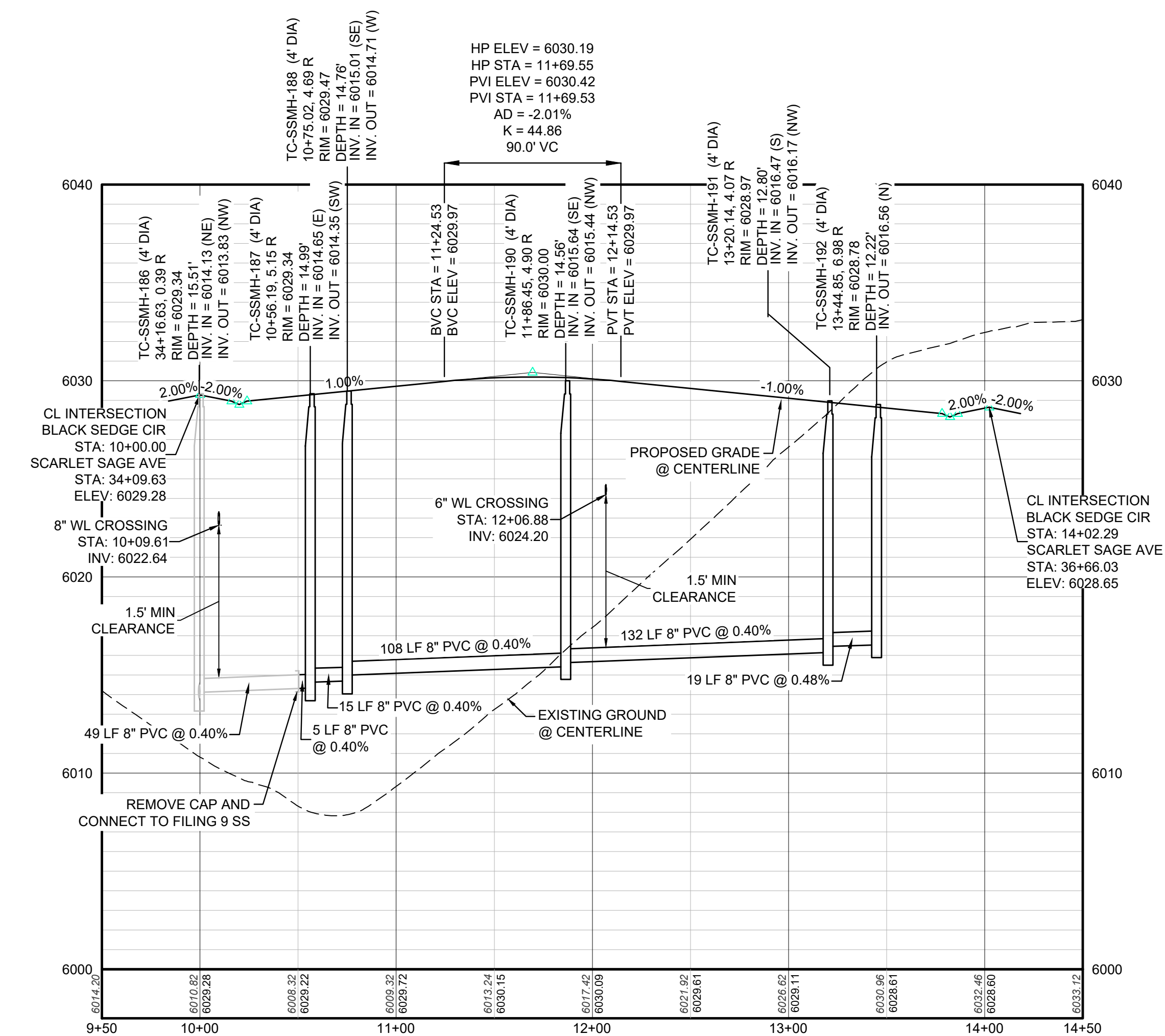


PLAN: BLACK SEDGE CIR STA: 9+50.00 TO 14+50.00
HORIZONTAL SCALE: 1" = 50'



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 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
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OPTIC LINE
		---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE
		---	PWSD EASEMENT
		---	TYP. EASEMENT



PROFILE: BLACK SEDGE CIR STA: 9+50.00 TO 14+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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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EVP	END VERTICAL PROFILE	SD	STORM DRAIN
FG	FINISHED GROUND	SL	SECTION LINE
FH	FIRE HYDRANT	SS	SANITARY SEWER
FL	FLOW LINE	STA	STATION
GV	GATE VALVE	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 TABLE

N:\PROJECTS\HSS RANCH\ENGINEERING\SS\11 PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\SCARLET SAGE AVENUE BB.DWG.CDD.VA.4/22/2021 11:48 AM

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

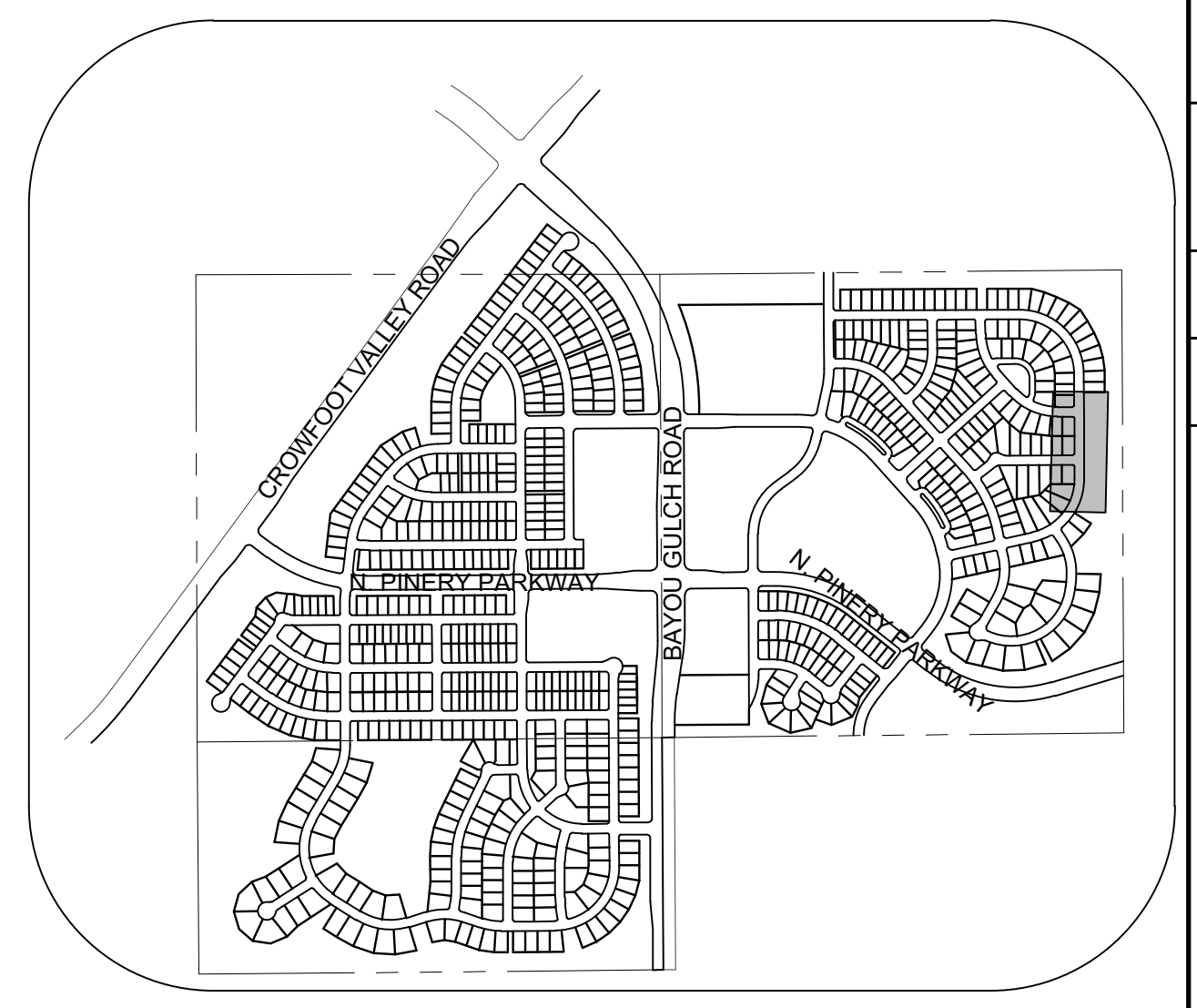
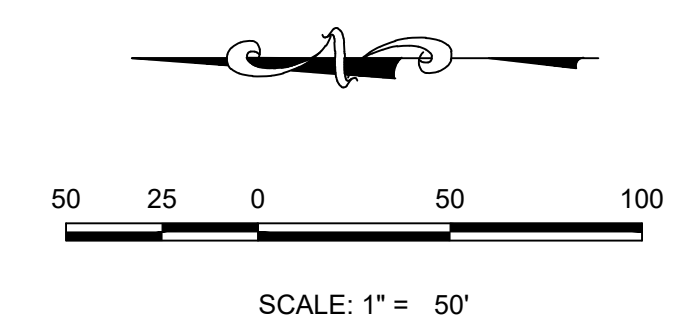
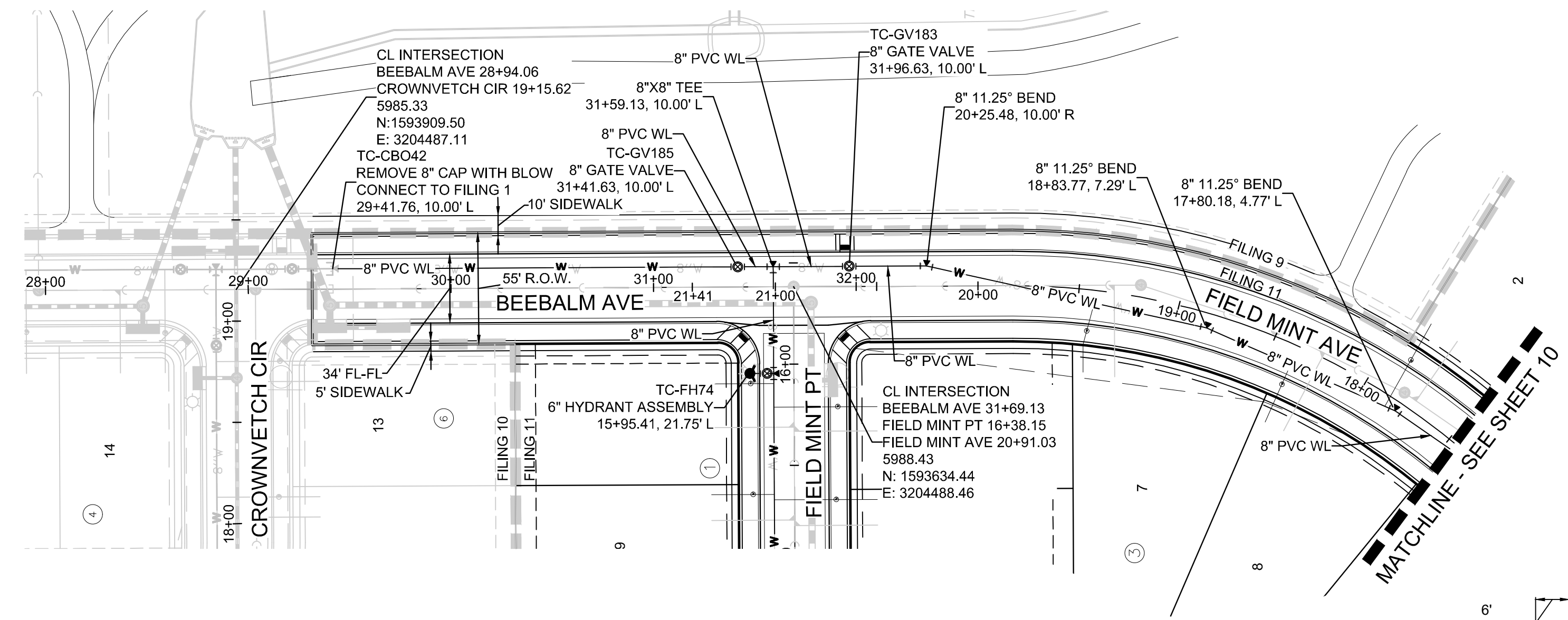
BENCHMARK
 DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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PREPARED UNDER THE SUPERVISION OF

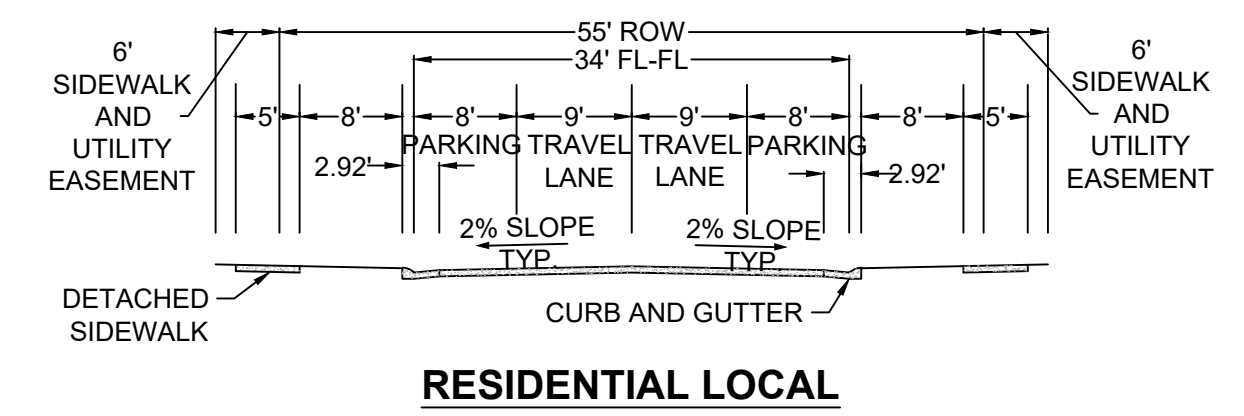
BRIAN P. WILSON
 COLORADO P.E. 0050067

SHEET NUMBER	DRAWN BY: KJD	CHECKED BY: JJ	DATE: SEPTEMBER 2017	SCALE:	AS SHOWN	FILE NO:	8130283701
				TRAILS AT CROWFOOT FILING 11 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE - BLACK SEDGE CIRCLE			
8	10333 E. Dry Creek Rd Suite 240 Englewood, CO 80112 Tel: 720.482.952 www.cvlinc.net westwoodjpa.com		7353 South Alton Way CENTENNIAL, CO 80112 HR 935 LLC	Revisions	No.	Date	Appr.



KEYMAP
N.T.S.
LEGEND

PLAN: BEEBALM AVE STA: 28+00 TO 35+00 & FIELD MINT AVE STA: 17+50 TO 21+00
HORIZONTAL SCALE: 1" = 50'

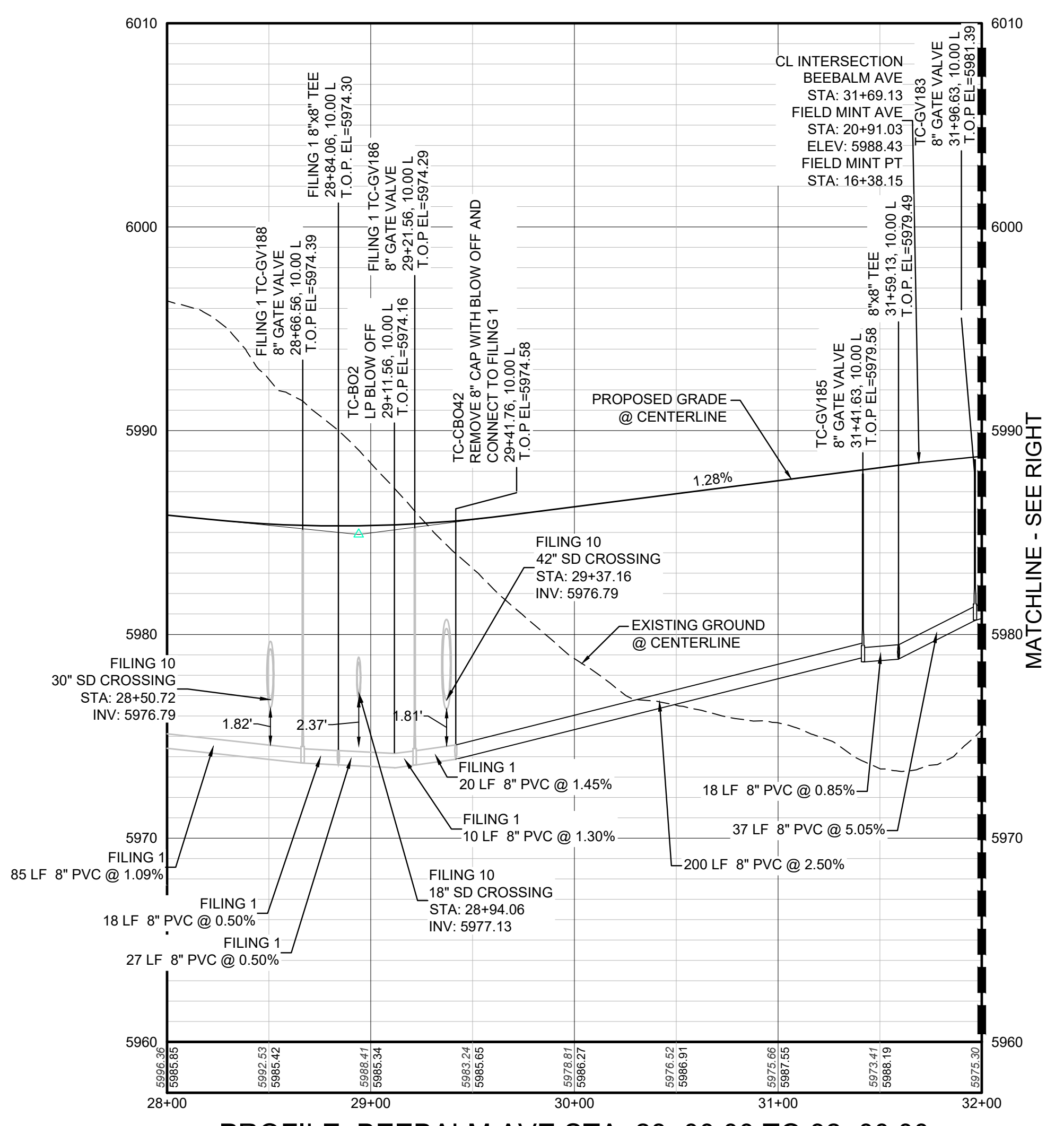


RESIDENTIAL LOCAL

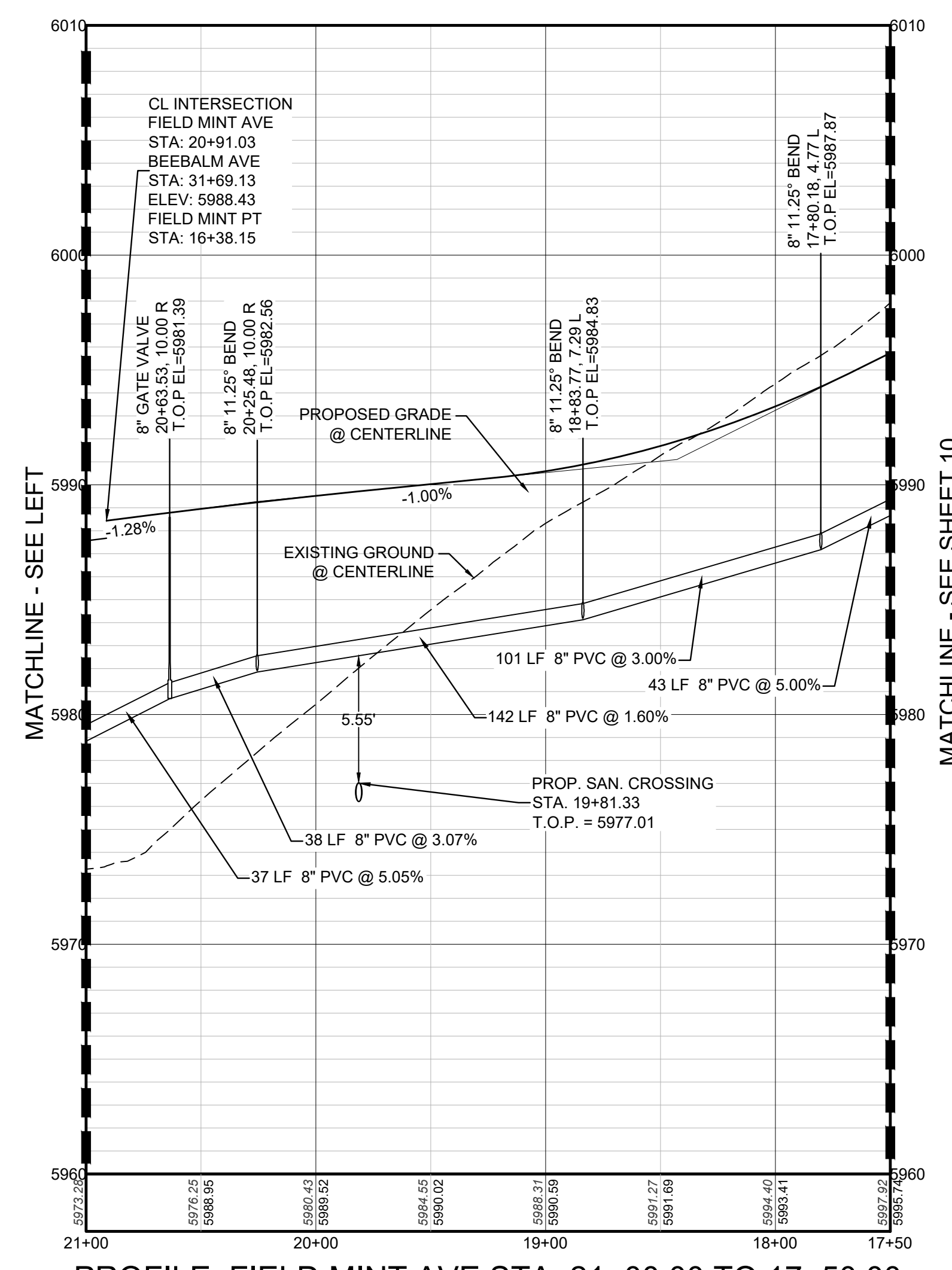
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Ⓜ	PROPOSED REDUCER	---	EDGE OF PAVEMENT
Ⓜ	PROPOSED VALVE	→	PROPOSED DIRECTION OF FLOW
Ⓜ	PROPOSED FIRE HYDRANT	1.0%	PROPOSED SLOPE & DIRECTION
Ⓜ	PROPOSED WL FITTING WITH THRUST BLOCK	5615	EXISTING 5' CONTOUR
Ⓜ	PROPOSED FLARED END SECTION	5616	EXISTING 1' CONTOUR
Ⓜ	PROPOSED LOW POINT BLOW-OFF	5620	PROPOSED 5' CONTOUR
Ⓜ	PROPOSED AIR VALVE	5607	PROPOSED 1' CONTOUR
Ⓜ	FUTURE PHASE VALVE	---	PROPOSED STORM DRAIN
Ⓜ	FUTURE FIRE HYDRANT	---	PROPOSED SEWER LINE WITH MANHOLE
Ⓜ	PROPOSED LIGHT POLE	---	PROPOSED SEWER LATERAL
Ⓜ	PROPOSED SIDEWALK	---	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	---	FO
Ⓜ	PROPOSED STORM DRAIN MANHOLE	---	OH
		---	TEL
		---	EXISTING FIBER
		---	EXISTING OVERHEAD POWER
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		---	PWSD EASEMENT
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HCR	HANDICAP CURB RAMP	UE	UTILITY EASEMENT
HP	HIGH POINT	VC	VERTICAL CURVE
INV	INVERT	WL	WATER LINE
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PROFILE: BEEBALM AVE STA: 28+00.00 TO 32+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE: FIELD MINT AVE STA: 21+00.00 TO 17+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

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

N:\PROJECTS\SSR\SSR\11\PARKEP WATER AND SANITATION\WATER PLAN AND PROFILE\BEEBALM.AVENUE.DWG, CDDVA, 4/22/2021 11:53 AM

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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.

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PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

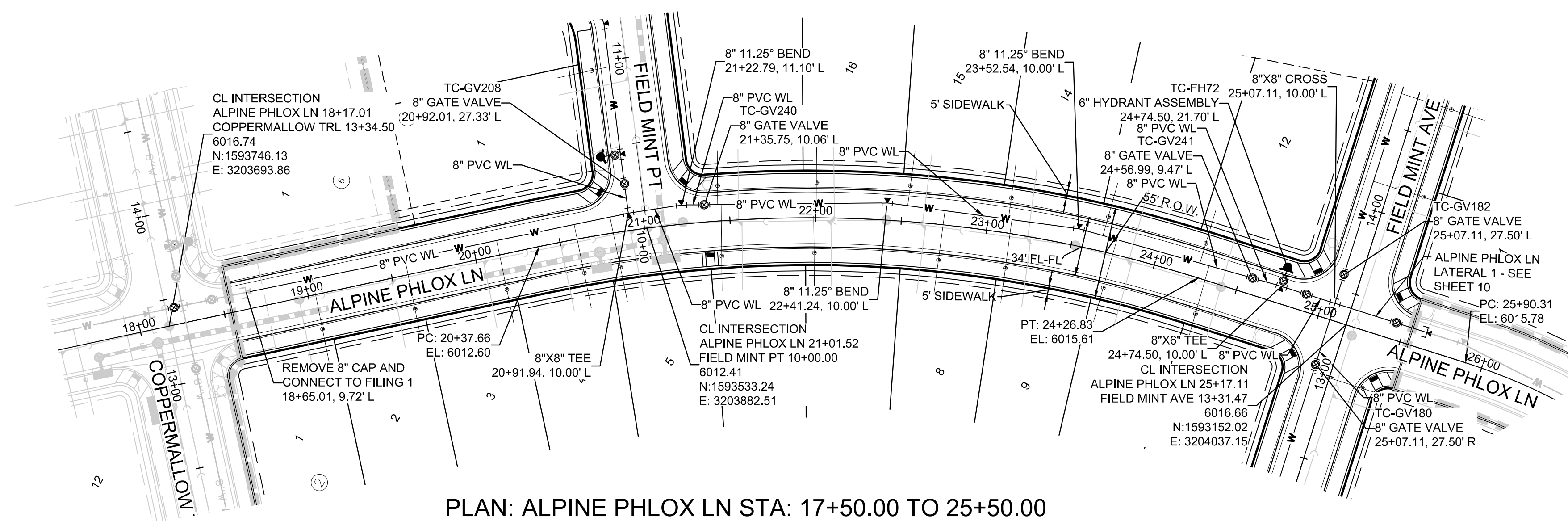
DRAWN BY:	RHR	CHECKED BY:	JU	DATE:	SEPTEMBER 2017
	AS SHOWN		JU		
SCALE:	AS SHOWN	FILE NO.:	8130283701		
SHEET NUMBER	9			Revisions	No.
					Date

10333 E. Dry Creek Rd
Suite 240
Englewood, CO 80112
Tel: 720.482.952
www.cvlinc.net
westwoodjpa.com

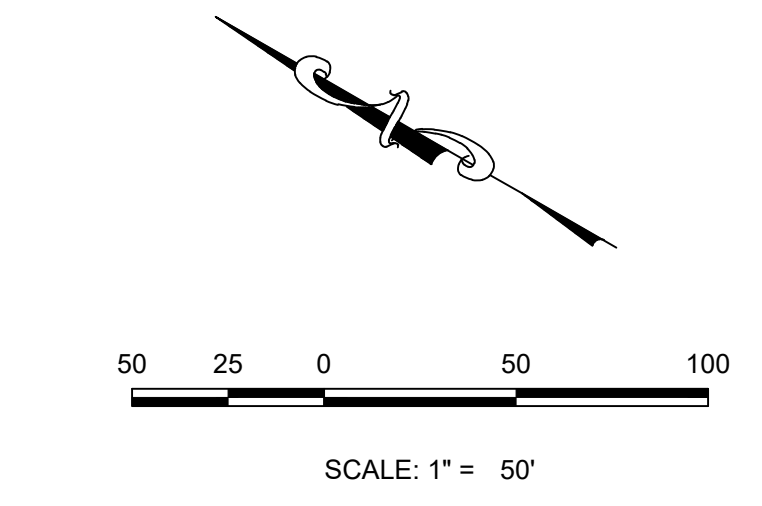
HR 935 LLC
7352 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 11 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
BEEBALM AVENUE & FIELD MINT AVENUE

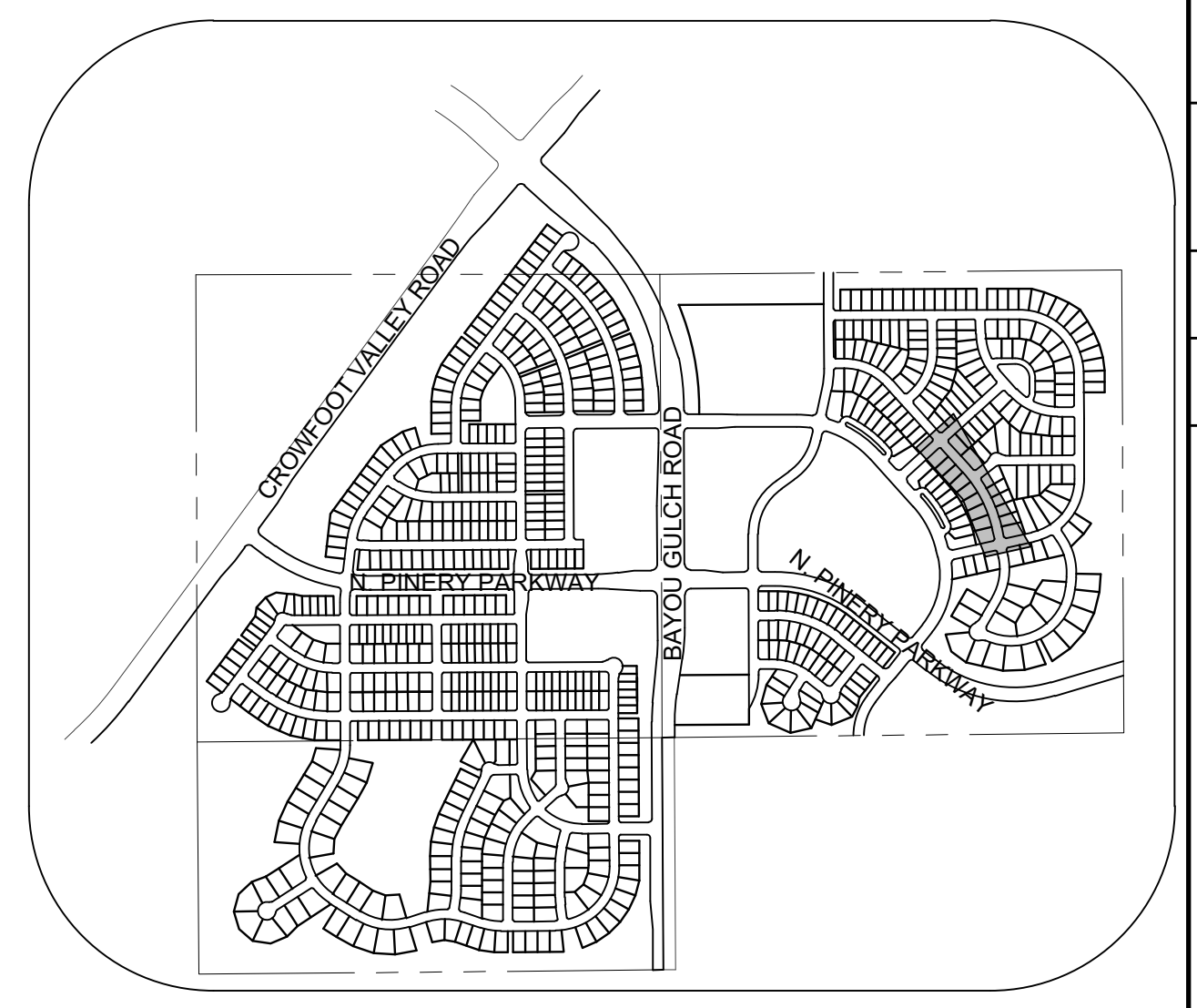
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PLAN: ALPINE PHLOX LN STA: 17+50.00 TO 25+50.00
HORIZONTAL SCALE: 1" = 50'



RESIDENTIAL LOCAL

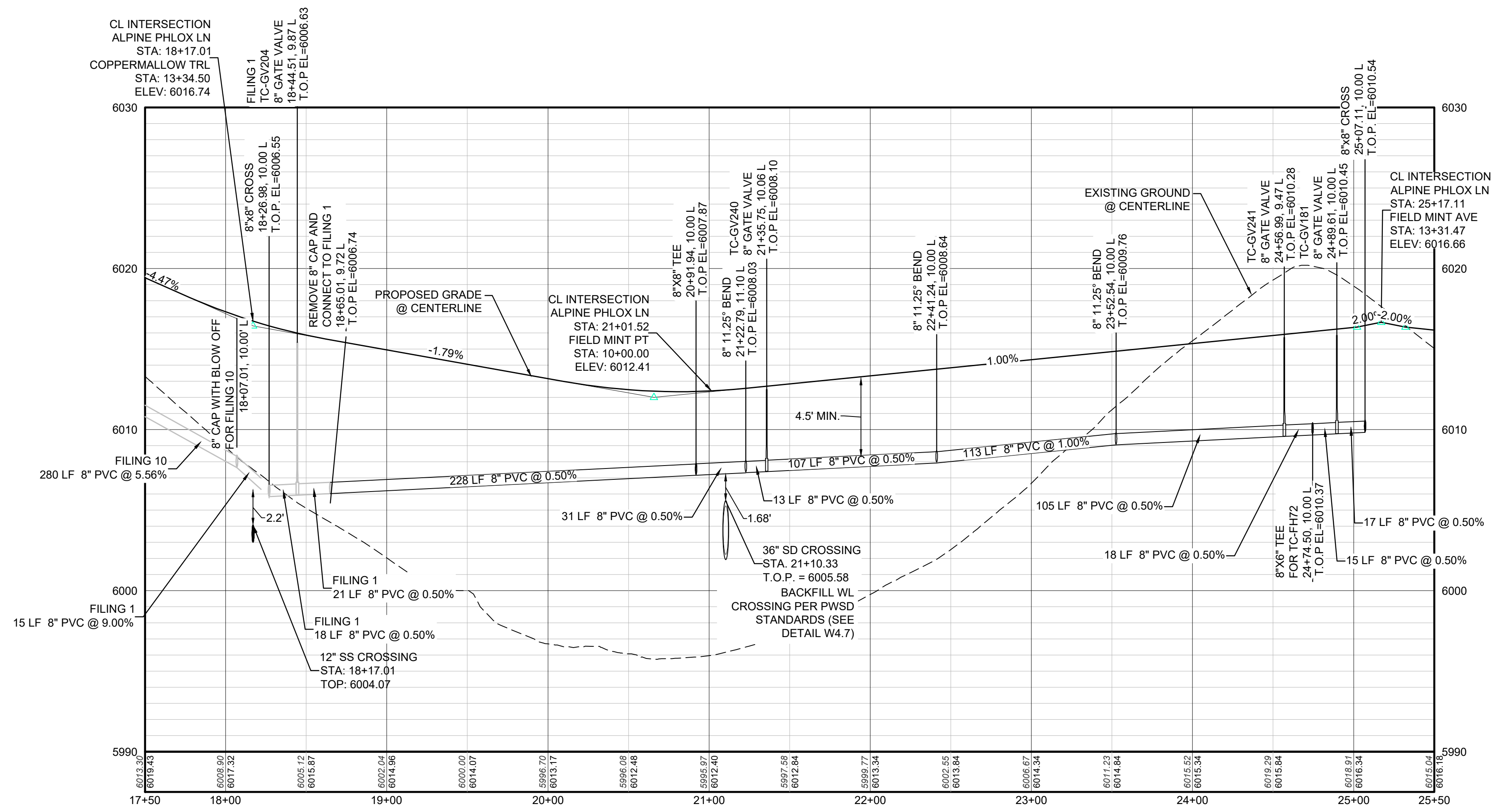


KEYMAP
N.T.S.
LEGEND

LEGEND table with symbols for Block Number, Lot Type, Proposed Butterfly Valve, Proposed Cap, Proposed Reducer, Proposed Valve, Proposed Fire Hydrant, Proposed W/F Fitting, 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, 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 Optic Line, Existing Overhead Power, Existing Telephone Line, PWSD Easement, TYP. Easement.

ABBREVIATIONS table listing symbols for Angle Difference, Air Vac Release Valve, Begin Vertical Curve, Begin Vertical Profile, Cap with Blow Off, Curb Return Radius, Elevation, Edge of Pavement, End Vertical Curve, End Vertical Profile, Finished Ground, Fire Hydrant, Flow Line, Gate Valve, Handicap Curb Ramp, High Point, Invert, Curvature Coefficient, Linear Feet, Manhole, Not to Scale, Polyvinyl Chloride, Point of Vertical Intersection, Point of Vertical Tangent, Reinforced Concrete Box Culvert, Reinforced Concrete Pipe, Right of Way, Sanitary Cap, Storm Drain, Section Line, Sanitary Sewer, Station, Top of Pipe, Utility Easement, Vertical Curve, Water Line, Water Line Connection, Water Surface Elevation.

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



PROFILE: ALPINE PHLOX LN STA: 17+50.00 TO 25+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

UNCC 1-800-922-1987
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BENCHMARK
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PREPARED UNDER THE SUPERVISION OF
BRIAN P. WILSON
COLORADO P.E. 0050067

Revisions table with columns for No., Date, Init., Appr., Date. Includes project information: 10333 E. Dry Creek Rd, Suite 240, Englewood, CO 80112, Tel: 720.482.952, www.cvlinc.net, westwoodjpa.com, HR 935 LLC, 7353 South Alton Way, CENTENNIAL, CO 80112, TRAILS AT CROWFOOT, FILING 11 CONSTRUCTION DRAWINGS, WATER PLAN & PROFILE, ALPINE PHLOX LANE, SCALE: AS SHOWN, FILE NO: 8130283701, DRAWN BY: RRR, CHECKED BY: JU, DATE: SEPTEMBER 2017, SHEET NUMBER: 12.

ALUMINUM STEP

STEPS TO BE HOOKED BEHIND REINFORCING WHEN CONCRETE SECTIONS ARE CAST.

VERTICAL SPACING 12" MIN. WITH BOTTOM STEP 6"-8" ABOVE BENCH

TYPICAL INSTALLATION

TOE POCKET DETAILS

STANDARD EXTRUDED ALUMINUM MANHOLE STEP

NOTES:

- ALUMINUM ALLOY SPECIFICATIONS
 - FED. SPEC. 00-A-200/9 (ALUMINUM-MAGNESIUM-SILICATE ALLOY)
 - MINIMUM TENSILE STRENGTH= 35,000 P.S.I.
 - MINIMUM YIELD STRENGTH= 35,000 P.S.I.
 - MINIMUM ELONGATION=10% IN 2 INCHES
- MINIMUM LOAD CAPACITY (APPLIED AT CENTER OF STEP)
 - 1000 LB. WITH 6" PROJECTION FROM WALL.
 - 1500 LB. WITH 4" PROJECTION FROM WALL.
- WEIGHT PER STEP=2.23 POUNDS
- STEPS TO BE CAST, UNALTERED, IN MANHOLE WALL IN STRAIGHT LINE, VERTICALLY, AT THE SAME TIME THE BARREL OR CONE SECTIONS ARE CAST.
- VERTICAL SPACING BETWEEN STEPS SHALL BE CONSISTENT IN EACH INDIVIDUAL MANHOLE.
- TOE POCKETS ARE REQUIRED IN STORM SEWER MANHOLES IF TOP OF BENCH IS MORE THAN 18" ABOVE INVERT. TOE POCKETS ARE NOT REQUIRED IN SANITARY SEWER MANHOLES UNLESS OTHERWISE SPECIFIED.

PARKER WATER & SANITATION DISTRICT
STANDARD EXTRUDED ALUMINUM MANHOLE STEP

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

PIN FOR PRESS STEP

POLYPROPYLENE REINFORCED PLASTIC STEP

NOTES:

- ASTM SPECIFICATIONS:
 - ASTM C-419
 - ASTM A-815 GRADE 60 (STEEL ROD)
 - ASTM 2140-99, TYPE II, GRADE 180 (POLYPROPYLENE)
- STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURE SHALL HAVE A 3-7/8 INCH LEG AND SHALL PROJECT FROM THE WALL 8-5/8 INCHES.
- STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8-1/4 INCH LEG AND SHALL PROJECT FROM THE WALL 4-7/8 INCHES.
- ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3-3/8 INCHES.
- STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY FABRICATED PIN TO FORM THE INSERT HOLE AS SHOWN.
- 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.
- STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD EXCLUSIVELY FOLLOWING MANUFACTURER'S RECOMMENDED PROCEDURE AND SHALL NOT BE GROUTED IN PLACE.

PARKER WATER & SANITATION DISTRICT
POLYPROPYLENE REINFORCED PLASTIC MANHOLE STEP

SCALE: NONE DATE: 2/05
APPROVED: PVR 01/16 10/16
DIRECTOR OF ENGINEERING

REINFORCING

SECTION

SECTION

SECTION

CAST ALUMINUM MANHOLE STEP

NOTES:

- THE CAST ALUMINUM MANHOLE STEP SHALL ONLY BE USED WHEN SPECIFIED ON THE DRAWINGS.
- ALUMINUM ALLOY SPECIFICATIONS:
 - ASTM C-419
 - MIN. TENSILE STRENGTH= 40 K.S.I.
 - MIN. YIELD STRENGTH= 20 K.S.I.
 - MIN. SHEAR STRENGTH= 27.45 K.S.I.
 - ELONGATION= 10% IN 2 INCHES
 - BRINELL HARDNESS= 70
- MINIMUM LOAD CAPACITY, STEP SPACING AND ALIGNMENT, TOE POCKET DETAILS AND OTHER APPLICABLE NOTES OR DETAILS SPECIFIED FOR EXTRUDED ALUMINUM MANHOLE STEP SHALL ALSO APPLY TO THIS STANDARD.
- MIN. WT. = 2.0 LB.

PARKER WATER & SANITATION DISTRICT
CAST ALUMINUM MANHOLE STEP

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

MARKER POST DETAIL

STEEL PIPE

STENCILED IDENTIFICATION MARKS ON POSTS SHALL FACE THE APPURTENANCE WITH 2" STENCILS INDICATING TYPE OF APPURTENANCE (MH, 12" VALVE, ETC.) AND THE DISTANCE IN FEET AND INCHES FROM POST.

REDWOOD POST

ROUTER LETTERS AND NUMBERS INTO POST. PAINT LETTERS AND NUMBERS BLACK.

PARKER WATER & SANITATION DISTRICT
MARKER POST DETAIL

SCALE: NONE DATE: 2/98
APPROVED: PVR 2/02 10/16 4/01 1/06 1/16
DIRECTOR OF ENGINEERING

CONCRETE CAP

STANDARD 4" STEEL PIPE PAINTED FIRE HYDRANT YELLOW OR 4" X 4" REDWOOD POST

DIRT FILL

GROUND LEVEL

CONCRETE

MARKER POST DETAIL

TABLE I

STREET WIDTH	ASPHALT AND BASE COURSE REPLACEMENT SCHEDULE	ASPHALTIC WEARING SURFACE (A.C.W.S.)	TOTAL THICKNESS (T ₁)
UP TO 36'	4"	2"	6"
36' TO 48'	4"	3"	7"
MORE THAN 48'	6"	3"	9"

PARKER WATER & SANITATION DISTRICT
MARKER POST DETAIL

SCALE: NONE DATE: 2/98
APPROVED: PVR 2/02 10/16 4/01 1/06 1/16
DIRECTOR OF ENGINEERING

TYPICAL TRENCH DETAIL

NOTES:

- Sloping or benching of trench side walls, where permitted, shall be in accordance with applicable Federal, State and Local safety regulations.
- Trench shall be broomed and shored as necessary to allow 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 gutters, utilities, sidewalks, structures, etc. outside the maximum limits of excavation as shown and the contractor shall be responsible for protection of same.
- If excavation "B₁" is < 5', then existing asphalt pavement shall be removed and replaced up to the gutter. Maximum asphalt shall then be placed over the existing asphalt.

PARKER WATER & SANITATION DISTRICT
SEWER TRENCHING AND BEDDING DETAIL

SCALE: NONE DATE: 2/98
APPROVED: PVR 5/98 1/16 12/96
DIRECTOR OF ENGINEERING

2015 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

CONCRETE ARCH

CONCRETE CRADLE

TABLE III

NOMINAL DIAMETER (D)	MINIMUM THICKNESS (t)	MIN. WIDTH OF CRADLE (W _c)
18" & smaller	6"	B ₁ + 8"
21" to 24"	8"	B ₁ + 8"
27" to 33"	8"	B ₁ + 8"
36" to 42"	10"	1.25 B ₁
48" & larger	1/4" D	1.25 B ₁

PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING DETAIL - CLASS "A"

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

CLASS "B" BEDDING

TABLE IV

PIPE SIZE - D ₁	MIN. DEPTH OF BEDDING MATL. BELOW BOTTOM OF PIPE
18" & SMALLER	6"
21" TO 36"	6"
42" TO 60"	6"
66" TO 96"	9"
104" & LARGER	12"

PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING DETAIL - CLASS "B"

SCALE: NONE DATE: 2/98
APPROVED: PVR 5/98 2/02 1/16 10/16
DIRECTOR OF ENGINEERING

ROCK EXCAVATION

CLASS "B" BEDDING

TABLE IV

PIPE SIZE - D ₁	MIN. DEPTH OF BEDDING MATL. BELOW BOTTOM OF PIPE
18" & SMALLER	6"
21" TO 36"	6"
42" TO 60"	6"
66" TO 96"	9"
104" & LARGER	12"

PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING DETAIL - CLASS "B"

SCALE: NONE DATE: 2/98
APPROVED: PVR 5/98 2/02 1/16 10/16
DIRECTOR OF ENGINEERING

CLASS "B" BEDDING

TABLE IV

PIPE SIZE - D ₁	MIN. DEPTH OF BEDDING MATL. BELOW BOTTOM OF PIPE
18" & SMALLER	6"
21" TO 36"	6"
42" TO 60"	6"
66" TO 96"	9"
104" & LARGER	12"

PARKER WATER & SANITATION DISTRICT
TRENCHING AND BEDDING DETAIL - CLASS "B"

SCALE: NONE DATE: 2/98
APPROVED: PVR 5/98 2/02 1/16 10/16
DIRECTOR OF ENGINEERING

TYPE I CONCRETE ENCASEMENT FOR SANITARY SEWERS

GENERAL NOTES FOR TYPE I/A, II, III ENCASEMENT

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING IF OPTIONAL CONSTRUCTION JOINT IS USED AND BOTTOM HALF OF ENCASEMENT IS FOUNDED 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:
 - TYPE I/A ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
 - TYPE II ENCASEMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
 - TYPE III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAIL SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I/A OR II ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
 - TYPE I/A ENCASEMENT SHALL BE USED FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS.
 - TYPE II ENCASEMENT SHALL BE USED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION (L x W).
 - EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS OR UNDER PASSABLE SOIL CONDITIONS ARE ENCOURAGED. TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY.
 - 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:
 - APPROVED COMPRESSED MATERIAL SUCH AS STYROFOAM, ETC. 6" & 6" x 6" x 6".
 - IF 4" x 6" x 6" BEDDING IS 4" & 4" x 6" (IF 4" x 6" 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 IS EXTREMELY LARGE PER SUPPORTS ON EACH SIDE OF SANITARY SEWER SHALL BE REQUIRED. SUPPORTS SHALL BE SPECIFIED AND DETAIL SEPARATELY ON PLAN AND PROFILE DRAWINGS.

PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASEMENT TYPE I

SCALE: NONE DATE: 2/98
APPROVED: JFN 5/98 2/02 1/16 10/16
DISTRICT ENGINEER

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

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2016 REVISION

2008 REVISION

2008 REVISION

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TRAILS AT CROWFOOT
FILING 11 CONSTRUCTION DRAWINGS
SANITARY SEWER DETAILS

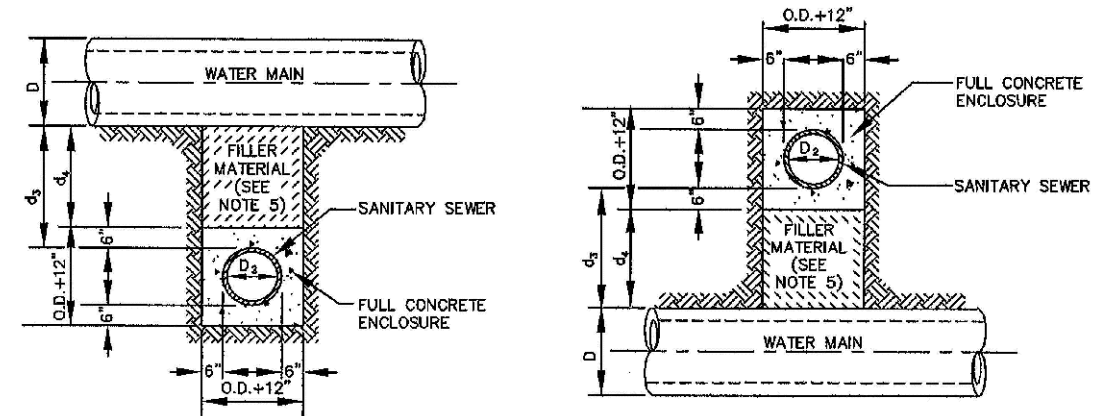
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FILE NO: 8130283701

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

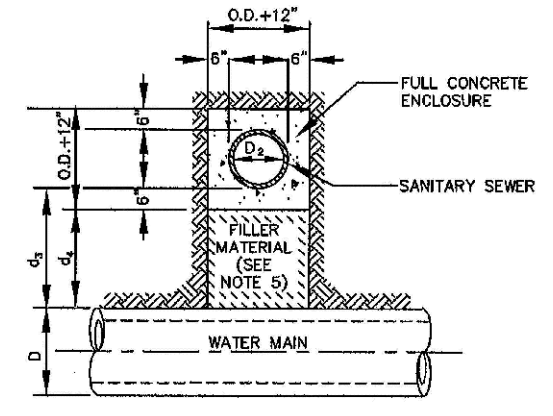
SHEET NUMBER: 15

Revisions

No.	Date	Init.	Appr.	Date



TYPE IIa
SANITARY SEWER CROSSING UNDER WATER MAIN
IF $d_s > 2$ FT, ENCASMENT NOT REQUIRED



TYPE IIb
SANITARY SEWER CROSSING OVER TOP OF WATER MAIN
FULL ENCASMENT REQUIRED REGARDLESS OF DIMENSION d_s

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

- GENERAL NOTES FOR TYPE I, II & III ENCASMENT**
- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASMENT 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 ENCASMENT FOR:
 - TYPE I & TYPE II ENCASMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
 - TYPE II ENCASMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
 - UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
 - TYPE I, II OR III ENCASMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
 - TYPE I OR TYPE II IF $d_s \leq 18"$ ($d_s \leq 12"$) EXCEPT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS.
 - TYPE II IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS REGARDLESS OF DIMENSION d_s .
 - EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS OR WHERE UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASMENT WILL NORMALLY BE SATISFACTORY.
 - IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF SUCTILE IRON PIPE (AWWA C-152 OR C-151), CONCRETE ENCASMENT MAY NOT BE REQUIRED.
 - FILLER MATERIAL BETWEEN CONDUITS TO BE:
 - APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF $d_s \leq 4"$ & $d_c \leq 6"$.
 - COMPACTED CLASS "B" BEDDING IF $d_s \leq 4"$ & $d_c > 6"$ (IF $d_s > 6"$ FOR TYPE III ENCASMENT POUR CONCRETE ON UNDISTURBED SOIL).
 - SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASMENT.
 - THESE ENCASMENT 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.

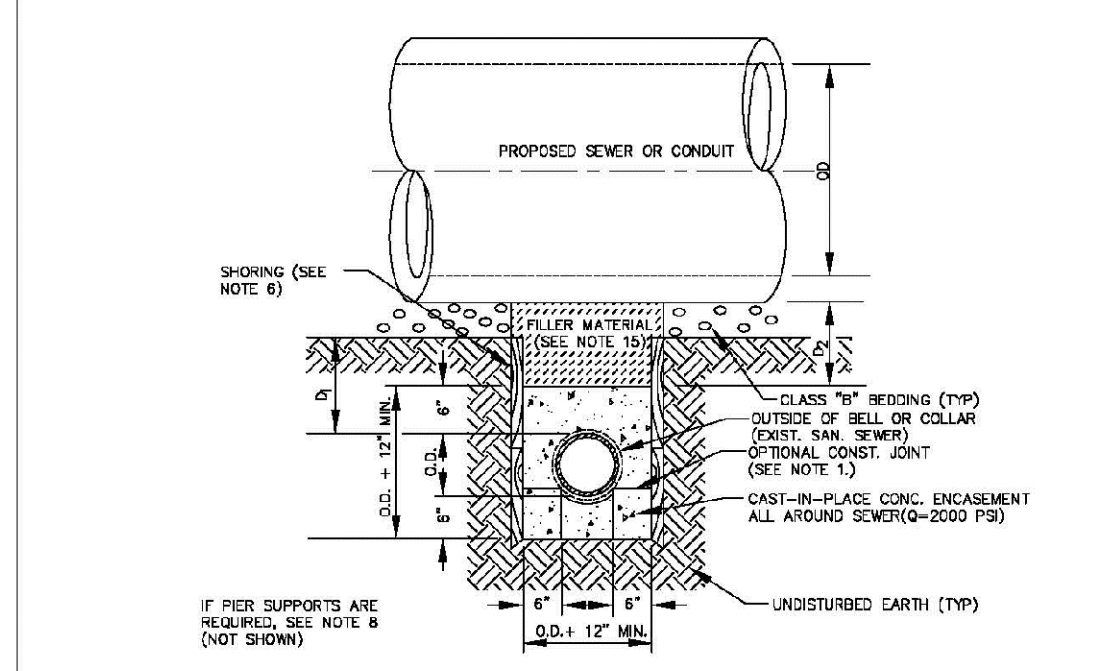
PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASMENT TYPE II

SCALE: NONE DATE: 2/98

APPROVED: JFN 5/98
4/01
1/08

DISTRICT ENGINEER

SHEET 7



TYPE III
CONCRETE ENCASMENT FOR SANITARY SEWERS (FULL ENCASMENT) NO SCALE

- GENERAL NOTES FOR TYPE I, II & III ENCASMENT**
- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASMENT 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 ENCASMENT FOR:
 - TYPE I & TYPE II ENCASMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT.
 - TYPE II ENCASMENT SHALL EXTEND AT LEAST 10 FEET EACH SIDE OF WATER MAIN.
 - UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, TO BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
 - TYPE I, II OR III ENCASMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS:
 - TYPE I OR TYPE II IF $d_s \leq 18"$ ($d_s \leq 12"$) EXCEPT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAINS.
 - TYPE II IS REQUIRED FOR SANITARY SEWERS CROSSING UNDER WATER MAINS AND $d_s \leq 24"$ ($d_s \leq 18"$).
 - TYPE III IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION d_s .
 - EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS OR WHERE UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASMENT WILL NORMALLY BE SATISFACTORY.
 - IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF SUCTILE IRON PIPE (AWWA C-152 OR C-151), CONCRETE ENCASMENT MAY NOT BE REQUIRED.
 - FILLER MATERIAL BETWEEN CONDUITS TO BE:
 - APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF $d_s \leq 4"$ & $d_c \leq 6"$.
 - COMPACTED CLASS "B" BEDDING IF $d_s \leq 4"$ & $d_c > 6"$ (IF $d_s > 6"$ FOR TYPE III ENCASMENT POUR CONCRETE ON UNDISTURBED SOIL).
 - SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASMENT.
 - THESE ENCASMENT 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 FILL LAYER.

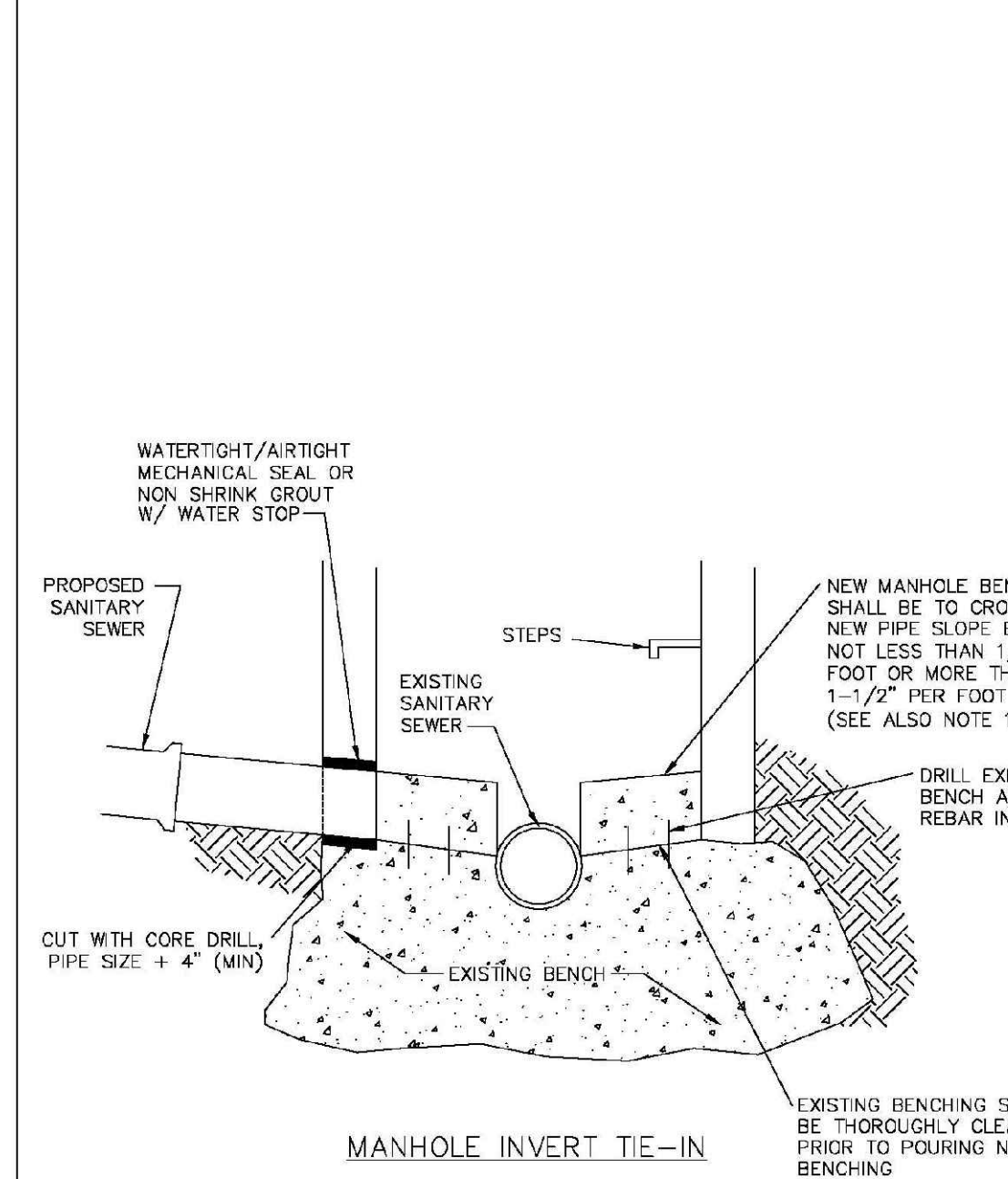
PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASMENT TYPE III

SCALE: NONE DATE: 2/98

APPROVED: PVR 5/98
1/18
10/16

DIRECTOR OF ENGINEERING

SHEET 8A.8



MANHOLE INVERT TIE-IN

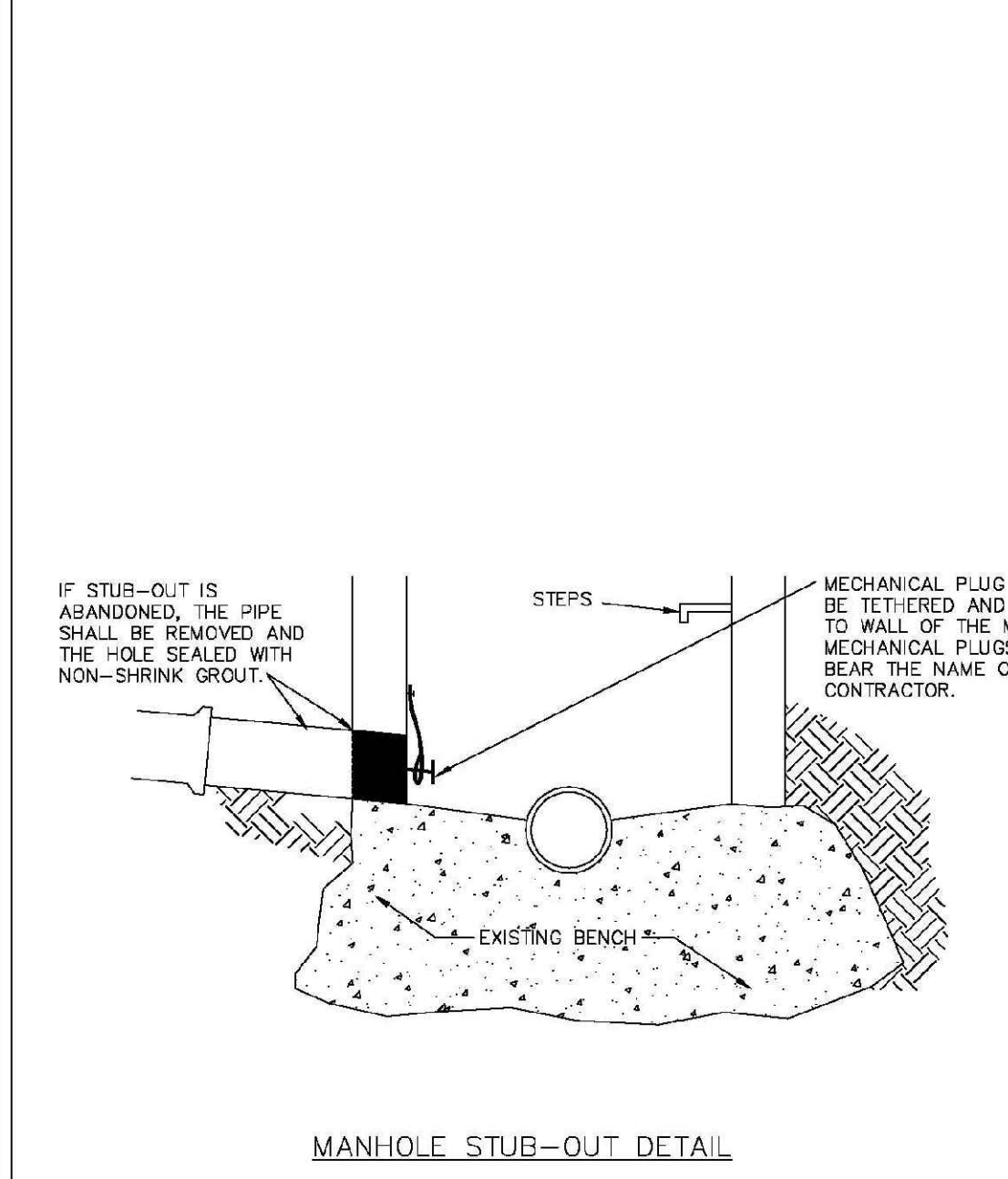
PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASMENT TYPE III
MANHOLE INVERT TIE-IN DETAIL

SCALE: NONE DATE: 2/98

APPROVED: PVR 5/98
1/18
10/16

DIRECTOR OF ENGINEERING

SHEET 8A.9



MANHOLE STUB-OUT DETAIL

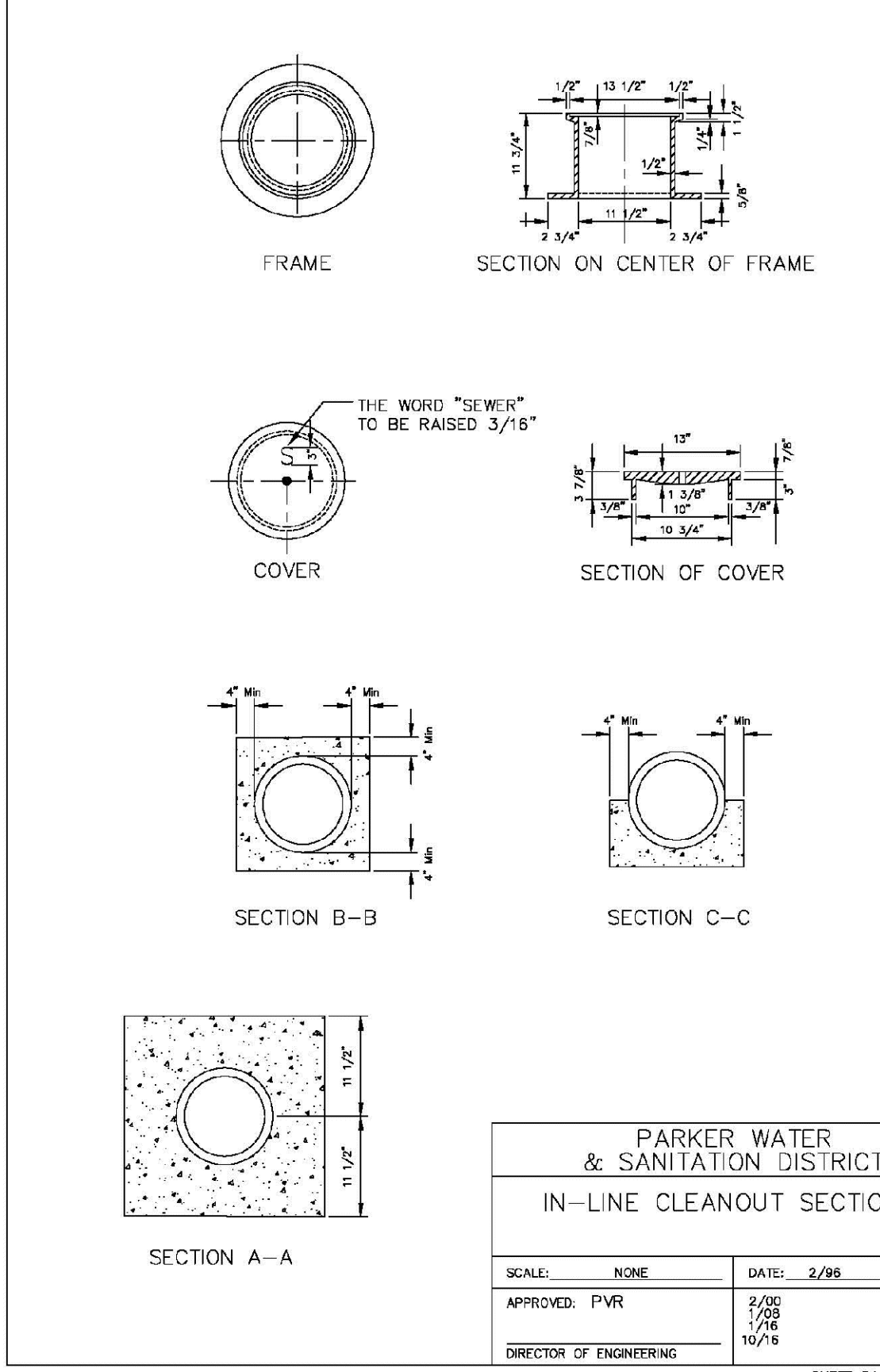
PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASMENT TYPE III
MANHOLE STUB-OUT DETAIL

SCALE: NONE DATE: 2/98

APPROVED: PVR 5/98
1/18
10/16

DIRECTOR OF ENGINEERING

SHEET 8A.10



PARKER WATER & SANITATION DISTRICT
CONCRETE ENCASMENT TYPE III
IN-LINE CLEANOUT SECTIONS

SCALE: NONE DATE: 2/98

APPROVED: PVR 5/98
1/18
10/16

DIRECTOR OF ENGINEERING

SHEET 8A.12

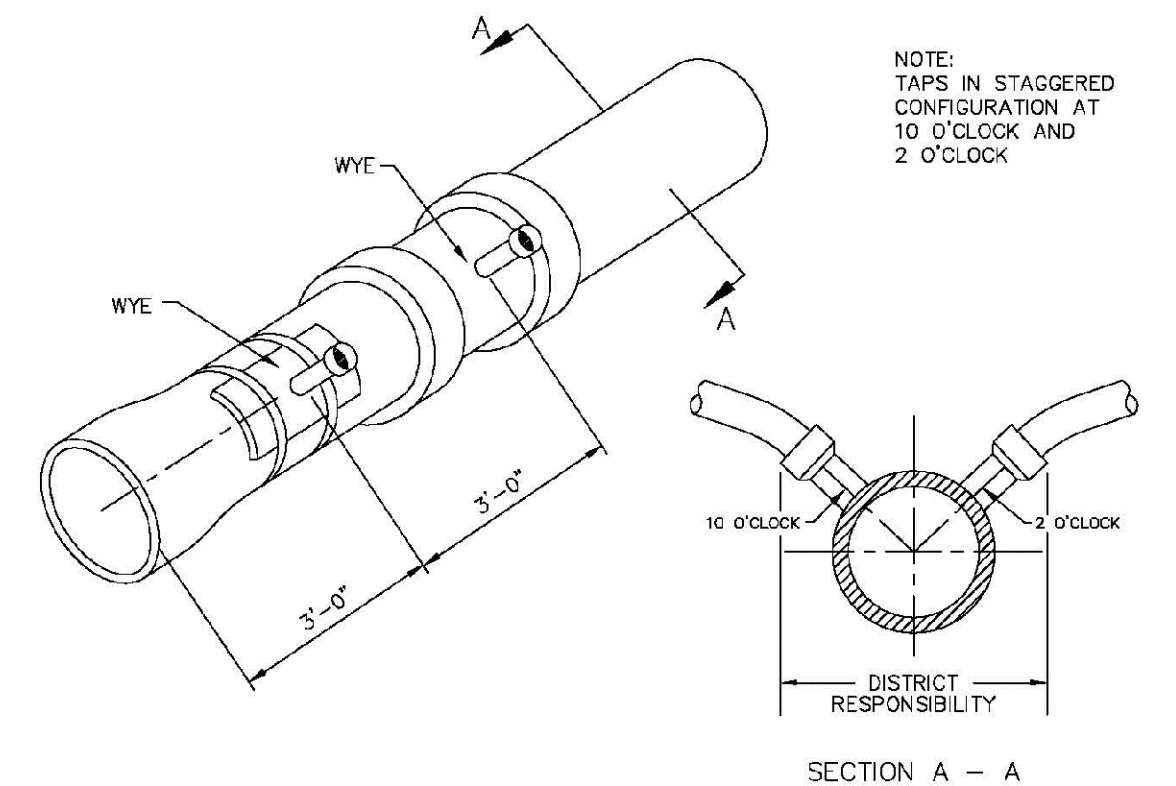
2008 REVISION

2016 REVISION

2016 REVISION

2016 REVISION

2016 REVISION



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.

PARKER WATER & SANITATION DISTRICT
DOMESTIC SEWER TAPPING DETAIL

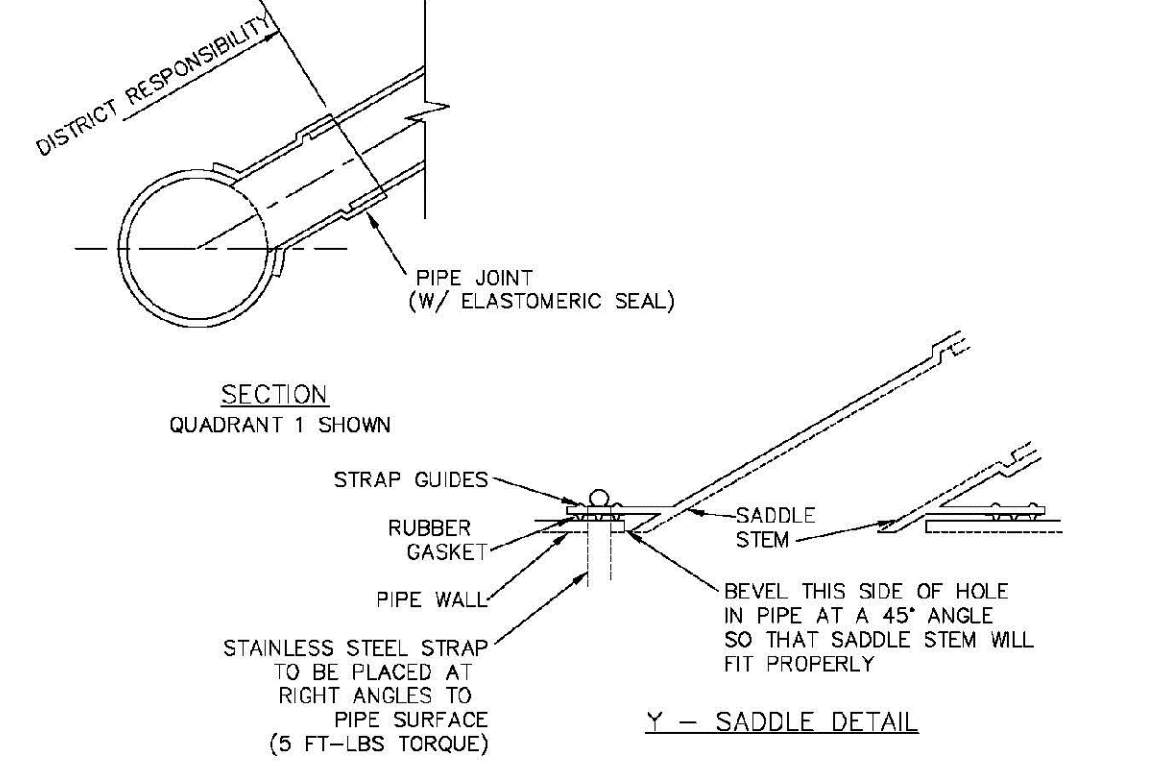
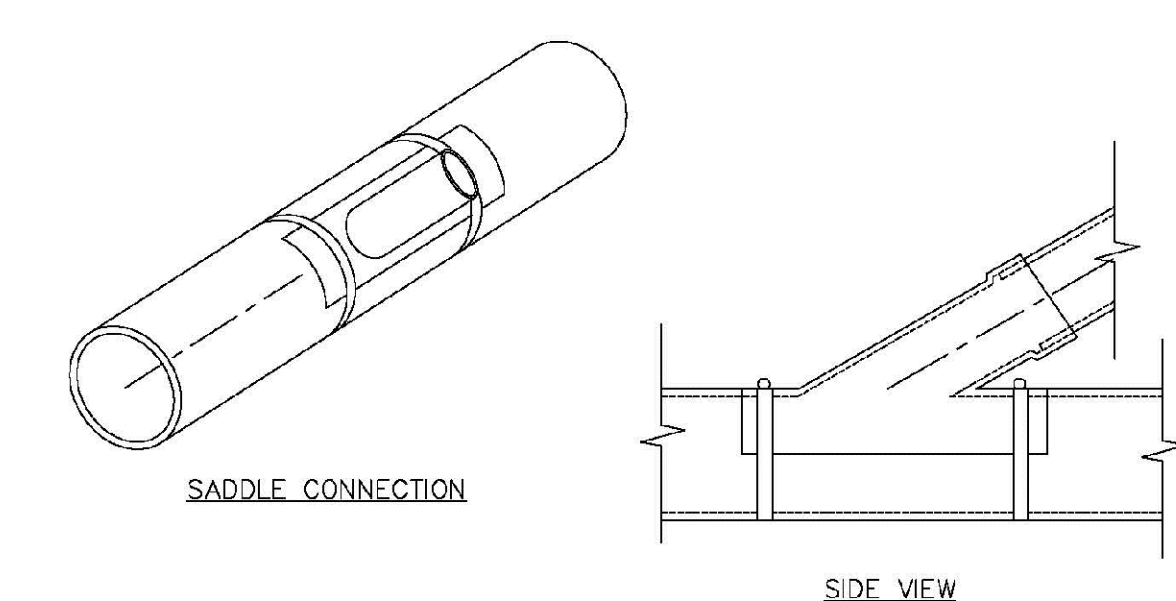
SCALE: NONE DATE: 2/98

APPROVED: PVR 4/01
1/08
10/16

DIRECTOR OF ENGINEERING

SHEET 8A.13

2016 REVISION



PARKER WATER & SANITATION DISTRICT
P.V.C. SADDLE CONNECTION DETAIL

SCALE: NONE DATE: 2/98

APPROVED: PVR 5/98
1/18
10/16

DIRECTOR OF ENGINEERING

SHEET 8A.14

2016 REVISION

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TRAILS AT CROWFOOT
FILING 11 CONSTRUCTION DRAWINGS
SANITARY SEWER DETAILS

SCALE: AS SHOWN
FILE NO: 8130283701

DRAWN BY: JF
CHECKED BY: JU
DATE: SEPTEMBER 2017

SHEET NUMBER: 16

No. Revisions

Date

Appr.

Date

