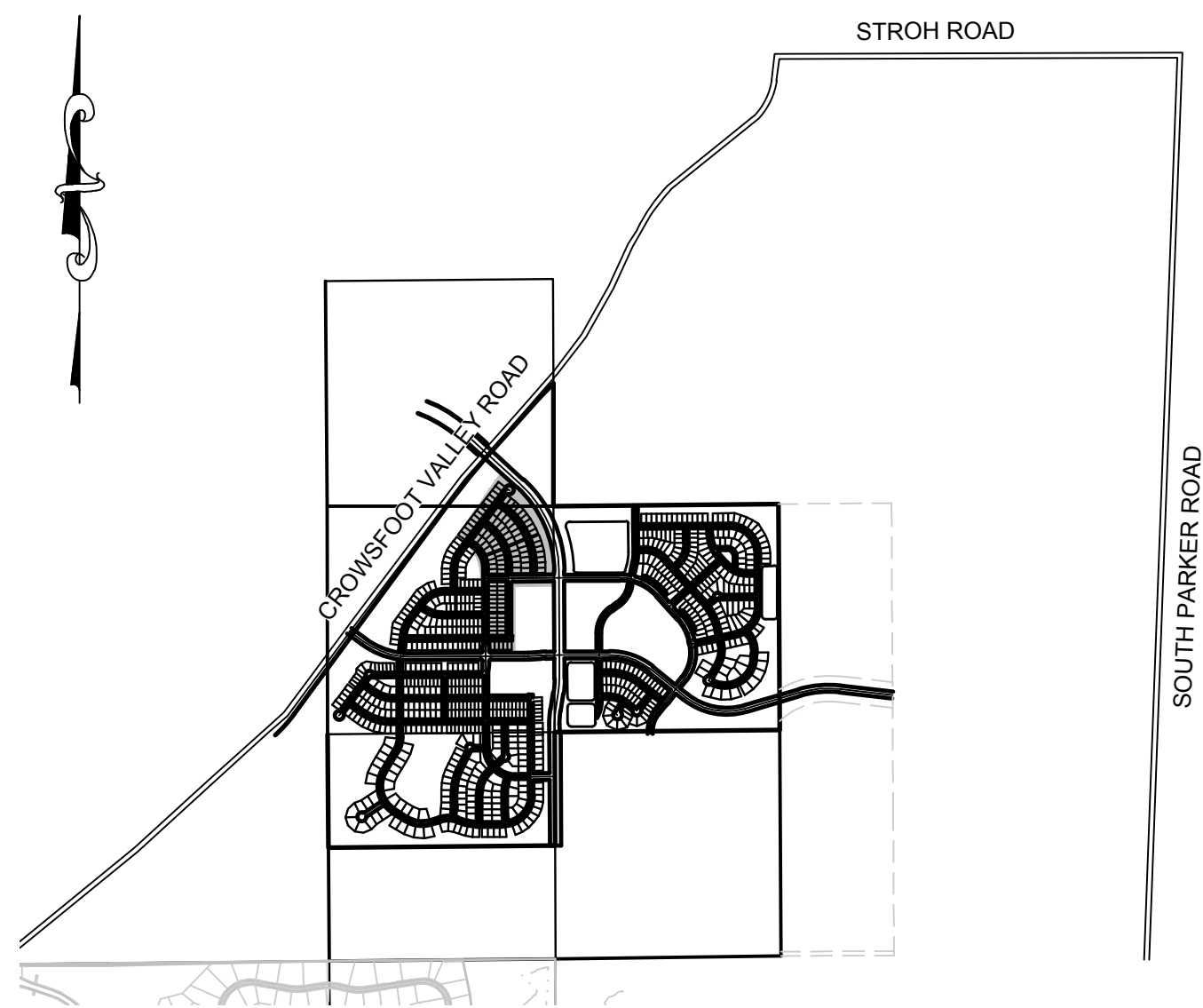


# TRAILS AT CROWFOOT FILING 2

## 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 INDEX	
SHEET #	SHEET TITLE
1	COVER SHEET
2	PARKER WATER AND SANITATION NOTES
3	AREA UTILITY PLAN
4	SANITARY P&P WILD LUPINE ST
5	SANITARY P&P SCARLET SAGE LN
6	SANITARY P&P SCARLET SAGE ST
7	SANITARY P&P SCARLET SAGE ST
8	SANITARY P&P SHASTA DAISY ST
9	SANITARY P&P SHASTA DAISY ST
10	SANITARY P&P RED COSMOS POINT
11	WATER P&P WILD LUPINE STREET
12	WATER P&P SHASTA DAISY STREET
13	WATER P&P SHASTA DAISY STREET
14	WATER P&P SCARLET SAGE STREET
15	WATER P&P SCARLET SAGE STREET
16	WATER P&P RED COSMOS POINT
17	WATER P&P SCARLET SAGE LANE
18	SANITARY SEWER DETAILS
19	SANITARY SEWER DETAILS
20	SANITARY SEWER DETAILS
21	WATER DETAILS
22	WATER DETAILS
23	WATER DETAILS
24	WATER DETAILS
25	WATER DETAILS
26	WATER DETAILS
27	WATER DETAILS



VICINITY MAP  
SCALE: 1" = 2000'

MATERIALS LIST		
DESCRIPTION	QUANTITY	UNIT
8" WATERPIPE (C900)	4,845	L.F.
6" WATERPIPE (DIP-FIRE HYDRANT LINE)	168	L.F.
8" GATE VALVE W/ BOX	21	EA.
6" GATE VALVE W/ BOX	9	EA.
FIRE HYDRANT ASSEMBLY	9	EA.
8" BLOWOFF	2	EA.
8" AIR VAC	2	EA.
8" BEND	15	EA.
8" CROSS	1	EA.
8" TEE	15	EA.
WATER SERVICE LATERAL W/ WATER METER AND PIT	100	EA.
8" SEWER (SDR-35 PVC)	4,479	L.F.
4' DIA. MANHOLE	24	EA.
SEWER SERVICE LATERAL W/ WYE TAP	100	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 SCHEDULE 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: \_\_\_\_\_

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON  
COLORADO P.E. 0050067

### 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 1.069032, 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.



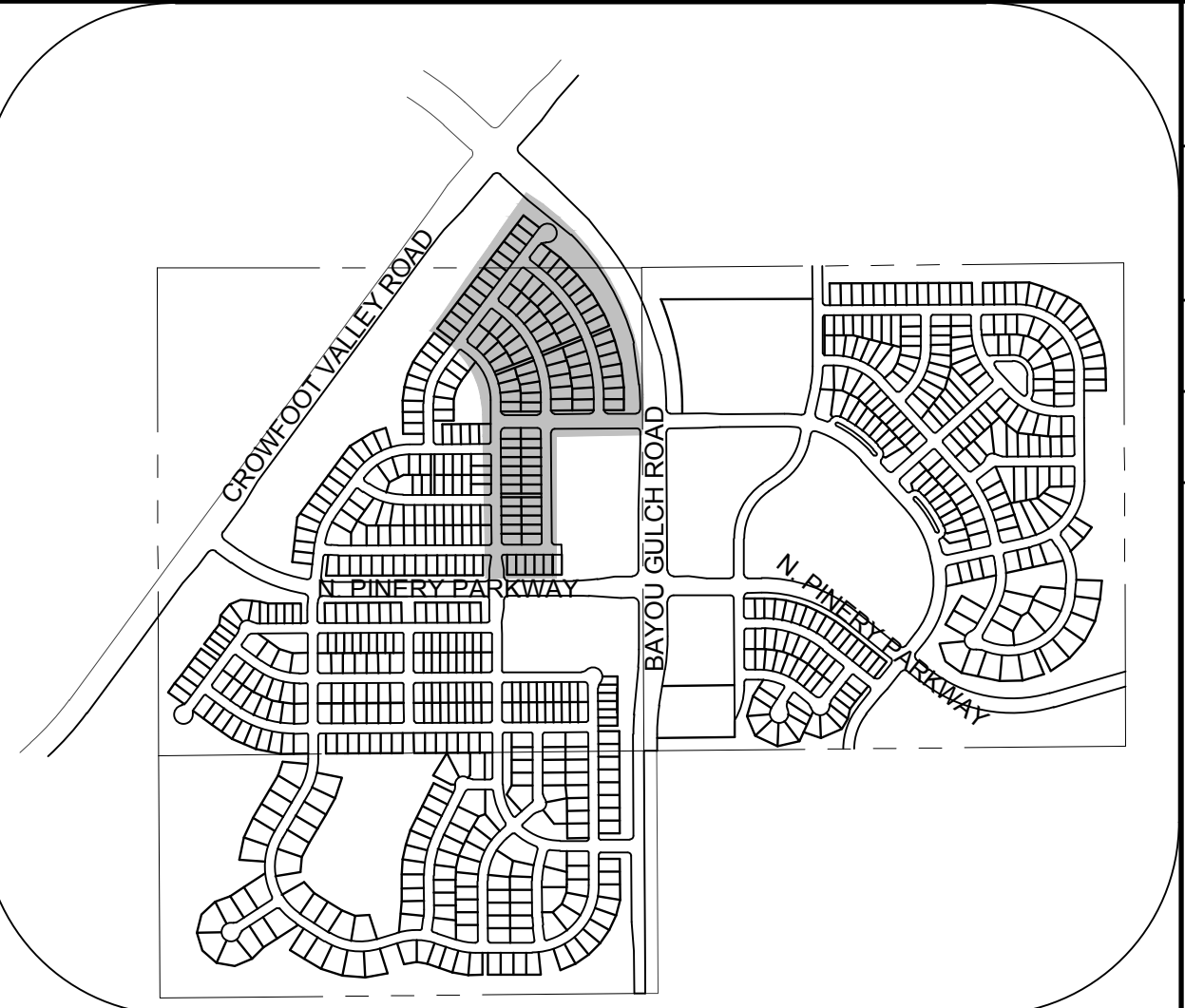
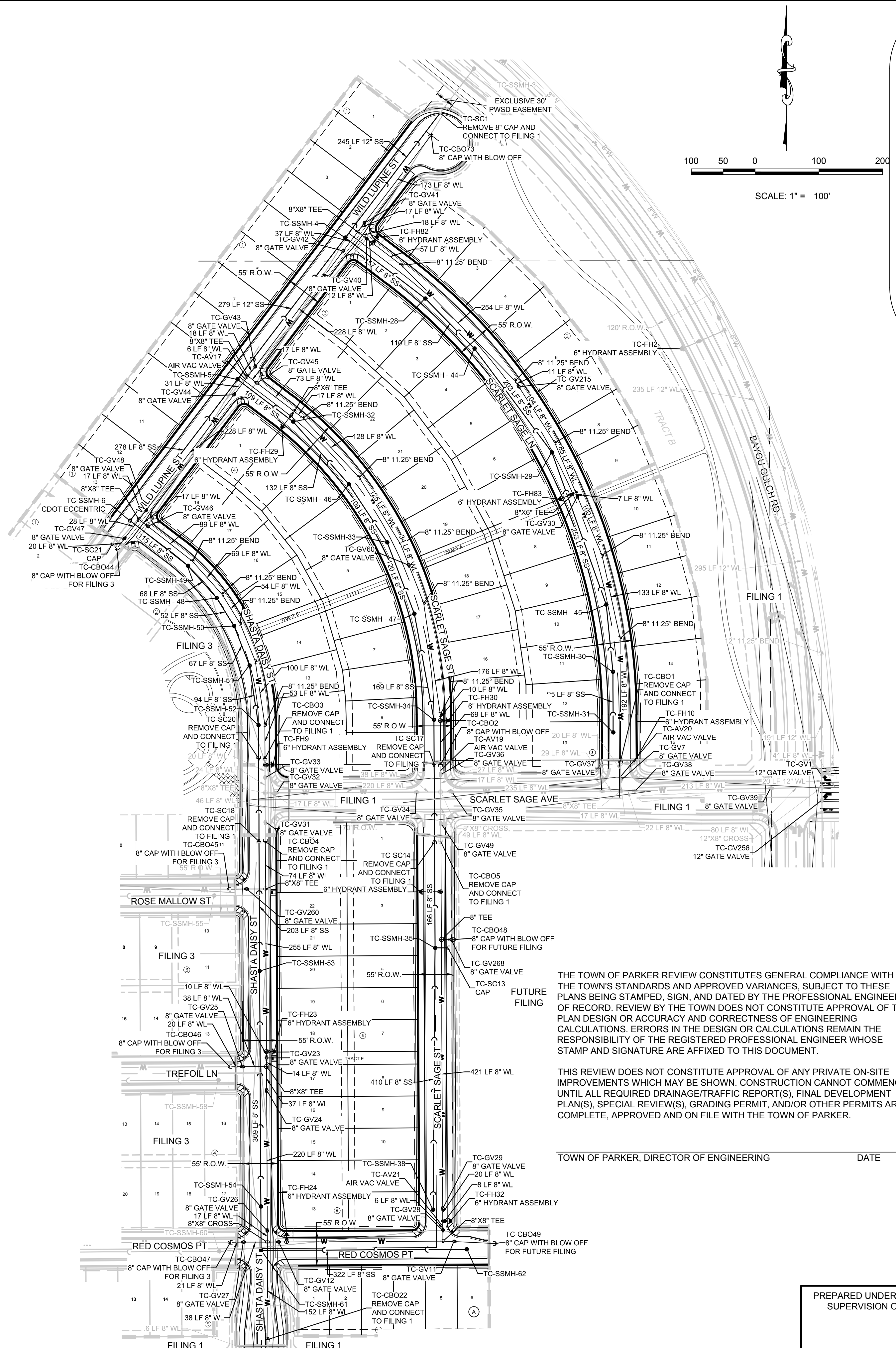
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SHEET NUMBER	1	DATE	AUGUST 2017
DRAWN BY:	KJD	CHECKED BY:	JU
SCALE:	AS SHOWN	FILE NO.:	8130283701
TRAILS AT CROWFOOT FILING 2 CONSTRUCTION DRAWINGS COVER SHEET			
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112			
10333 E. Dry Creek Rd. Suite 410 Englewood, Colorado Tel: (720) 482-9526 Fax: (720) 482-9546		Revisions	No.
		Date	
		Init.	
		Appr.	
		Date	



SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F2.B1.L1	WILD LUPINE ST	23+88.83	23+98.83
F2.B1.L2	WILD LUPINE ST	23+28.83	23+38.83
F2.B1.L3	WILD LUPINE ST	22+68.83	22+78.83
F2.B1.L4	WILD LUPINE ST	22+08.83	22+18.83
F2.B1.L5	WILD LUPINE ST	21+48.83	21+58.83
F2.B1.L6	WILD LUPINE ST	20+88.83	20+98.83
F2.B1.L7	WILD LUPINE ST	20+15.58	20+25.58
F2.B1.L8	WILD LUPINE ST	19+68.83	19+78.83
F2.B1.L9	WILD LUPINE ST	18+78.83	18+88.83
F2.B1.L10	WILD LUPINE ST	18+18.83	18+08.83
F2.B1.L11	WILD LUPINE ST	17+58.83	17+48.83
F2.B1.L12	WILD LUPINE ST	17+03.73	16+93.73
F2.B1.L13	WILD LUPINE ST	16+44.56	16+18.99
F2.B2.L1	SCARLET SAGE LN	10+49.23	10+34.50
F2.B2.L2	SCARLET SAGE LN	11+13.50	10+99.86
F2.B2.L3	SCARLET SAGE LN	11+66.81	11+57.50
F2.B2.L4	SCARLET SAGE LN	12+26.00	12+15.97
F2.B2.L5	SCARLET SAGE LN	12+83.95	12+74.80
F2.B2.L6	SCARLET SAGE LN	13+42.86	13+33.01
F2.B2.L7	SCARLET SAGE LN	13+99.32	13+86.60
F2.B2.L8	SCARLET SAGE LN	14+58.11	14+44.93
F2.B2.L9	SCARLET SAGE LN	15+08.10	14+99.50
F2.B2.L10	SCARLET SAGE LN	15+85.81	15+76.22
F2.B2.L11	SCARLET SAGE LN	16+49.52	16+34.64
F2.B2.L12	SCARLET SAGE LN	17+03.44	16+88.91
F2.B2.L13	SCARLET SAGE LN	17+56.18	17+47.23
F2.B2.L14	SCARLET SAGE LN	18+13.35	18+01.17
F2.B2.L15	SCARLET SAGE LN	18+68.40	18+58.88
F2.B2.L16	SCARLET SAGE LN	19+29.95	19+19.95
F2.B3.L1	SCARLET SAGE LN	10+47.50	10+37.50
F2.B3.L2	SCARLET SAGE LN	11+33.79	11+25.26
F2.B3.L3	SCARLET SAGE LN	11+93.19	11+83.55
F2.B3.L4	SCARLET SAGE LN	12+75.92	12+54.11
F2.B3.L5	SCARLET SAGE LN	13+39.56	13+24.33
F2.B3.L6	SCARLET SAGE LN	14+19.48	14+09.33
F2.B3.L7	SCARLET SAGE LN	14+93.51	14+84.12
F2.B3.L8	SCARLET SAGE LN	15+82.43	15+70.84
F2.B3.L9	SCARLET SAGE LN	16+52.33	16+37.65
F2.B3.L10	SCARLET SAGE LN	17+35.11	17+13.48
F2.B3.L11	SCARLET SAGE LN	17+94.27	17+86.29
F2.B3.L12	SCARLET SAGE LN	18+61.73	18+52.31
F2.B3.L13	SCARLET SAGE LN	19+29.95	19+17.92
F2.B3.L14	SCARLET SAGE ST	16+61.75	16+51.75
F2.B3.L15	SCARLET SAGE ST	16+06.71	15+94.24
F2.B3.L16	SCARLET SAGE ST	15+44.89	15+33.63
F2.B3.L17	SCARLET SAGE ST	14+83.02	14+73.64
F2.B3.L18	SCARLET SAGE ST	14+28.07	14+17.96
F2.B3.L19	SCARLET SAGE ST	13+60.50	13+41.83
F2.B3.L20	SCARLET SAGE ST	12+91.84	12+81.03
F2.B3.L21	SCARLET SAGE ST	12+35.76	12+24.80
F2.B3.L22	SCARLET SAGE ST	11+73.12	11+63.97
F2.B3.L23	SCARLET SAGE ST	11+29.62	11+06.68
F2.B3.L24	SCARLET SAGE ST	10+54.33	10+36.50
F2.B4.L1	SCARLET SAGE ST	10+46.50	10+33.00
F2.B4.L2	SCARLET SAGE ST	11+31.63	11+21.12
F2.B4.L3	SCARLET SAGE ST	11+94.70	11+83.74
F2.B4.L4	SCARLET SAGE ST	12+69.86	12+61.09
F2.B4.L5	SCARLET SAGE ST	13+42.85	13+31.98
F2.B4.L6	SCARLET SAGE ST	14+48.43	14+38.25
F2.B4.L7	SCARLET SAGE ST	15+03.32	14+94.21
F2.B4.L8	SCARLET SAGE ST	15+65.22	15+54.94
F2.B4.L9	SCARLET SAGE ST	16+21.80	16+10.58

SERVICE TABLE			
FILING, BLOCK, LOT	STREET	SANITARY STATIONING	WATER STATIONING
F2.B4.L10	SCARLET SAGE ST	16+81.75	16+71.75
F2.B4.L11	SHASTA DAISY ST	14+20.25	14+10.25
F2.B4.L12	SHASTA DAISY ST	13+73.75	13+63.19
F2.B4.L13	SHASTA DAISY ST	13+23.85	13+14.74
F2.B4.L14	SHASTA DAISY ST	12+78.83	12+68.84
F2.B4.L15	SHASTA DAISY ST	12+10.63	12+00.83
F2.B4.L16	SHASTA DAISY ST	11+61.30	11+51.19
F2.B4.L17	SHASTA DAISY ST	11+22.09	11+01.52
F2.B4.L18	SHASTA DAISY ST	10+49.20	10+34.20
F2.B5.L1	SCARLET SAGE ST	18+36.65	18+13.03
F2.B5.L2	SCARLET SAGE ST	18+79.76	18+69.76
F2.B5.L3	SCARLET SAGE ST	19+29.76	19+19.76
F2.B5.L4	SCARLET SAGE ST	19+79.76	19+69.76
F2.B5.L5	SCARLET SAGE ST	20+33.54	20+23.15
F2.B5.L6	SCARLET SAGE ST	20+79.76	20+69.76
F2.B5.L7	SCARLET SAGE ST	21+29.76	21+19.76
F2.B5.L8	SCARLET SAGE ST	21+99.76	21+89.76
F2.B5.L9	SCARLET SAGE ST	22+49.75	22+39.75
F2.B5.L10	SCARLET SAGE ST	22+99.76	22+89.76
F2.B5.L11	SCARLET SAGE ST	23+49.76	23+39.76
F2.B5.L12	SCARLET SAGE ST	23+99.76	23+89.76
F2.B5.L13	SHASTA DAISY ST	21+43.30	21+33.30
F2.B5.L14	SHASTA DAISY ST	20+93.30	20+83.30
F2.B5.L15	SHASTA DAISY ST	20+43.30	20+33.30
F2.B5.L16	SHASTA DAISY ST	19+93.30	19+83.30
F2.B5.L17	SHASTA DAISY ST	19+43.30	19+33.30
F2.B5.L18	SHASTA DAISY ST	18+73.30	18+63.30
F2.B5.L19	SHASTA DAISY ST	18+23.30	18+13.30
F2.B5.L20	SHASTA DAISY ST	17+73.30	17+63.30
F2.B5.L21	SHASTA DAISY ST	17+23.30	17+13.30
F2.B5.L22	SHASTA DAISY ST	16+73.30	16+63.30
F2.B5.L23	SHASTA DAISY ST	16+23.30	16+13.30
F2.B5.L24	SHASTA DAISY ST	15+73.49	15+53.16
F2.B6.L1	RED COSMOS PT	20+44.70	20+34.70
F2.B6.L2	RED COSMOS PT	20+94.70	20+84.70
F2.B6.L3	RED COSMOS PT	21+44.70	21+34.70
F2.B6.L4	RED COSMOS PT	21+94.70	21+84.70
F2.B6.L5	RED COSMOS PT	22+44.70	22+34.70
F2.B6.L6	RED COSMOS PT	22+94.78	22+84.70
F3.B3.L1	SHASTA DAISY ST	17+05.16	16+95.16
F3.B3.L11	SHASTA DAISY ST	17+68.44	17+58.44
F3.B3.L12	SHASTA DAISY ST	18+18.44	18+08.44
F3.B3.L13	SHASTA DAISY ST	18+68.44	18+58.44
F14.B1.L1	SCARLET SAGE ST	19+00.90	
F14.B1.L2	SCARLET SAGE ST	19+20.90	
F14.B2.L1	SCARLET SAGE ST	20+59.40	
F14.B2.L2	SCARLET SAGE ST	20+82.76	
F14.B2.L3	SCARLET SAGE ST	21+23.40	
F14.B2.L4	SCARLET SAGE ST	21+43.40	
F14.B2.L5	SCARLET SAGE ST	21+87.40	
F14.B2.L6	SCARLET SAGE ST	22+07.40	
F14.B2.L7	SCARLET SAGE ST	22+64.90	
F14.B2.L8	SCARLET SAGE ST	22+84.90	
F14.B2.L9	SCARLET SAGE ST	23+28.90	
F14.B2.L10	SCARLET SAGE ST	23+52.76	
F14.B2.L11	SCARLET SAGE ST	23+92.90	
F14.B2.L12	SCARLET SAGE ST	24+12.90	



**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
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	RCW	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	RFP	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

**UNCC**  
UTILITY NOTIFICATION CENTER OF COLORADO  
CALL 811  
TWO WORKING DAYS  
BEFORE YOU DIG  
1-800-922-1987

**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.)

**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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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 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 \_\_\_\_\_

PREPARED UNDER THE SUPERVISION OF  
BRIAN P. WILSON  
COLORADO P.E. 0050067

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)

10338 E. Dry Creek Rd.  
Suite 110  
Englewood, CO 80110  
Tel: (720) 482-9526  
Fax: (720) 482-9548

**CVL CONSULTANTS**

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

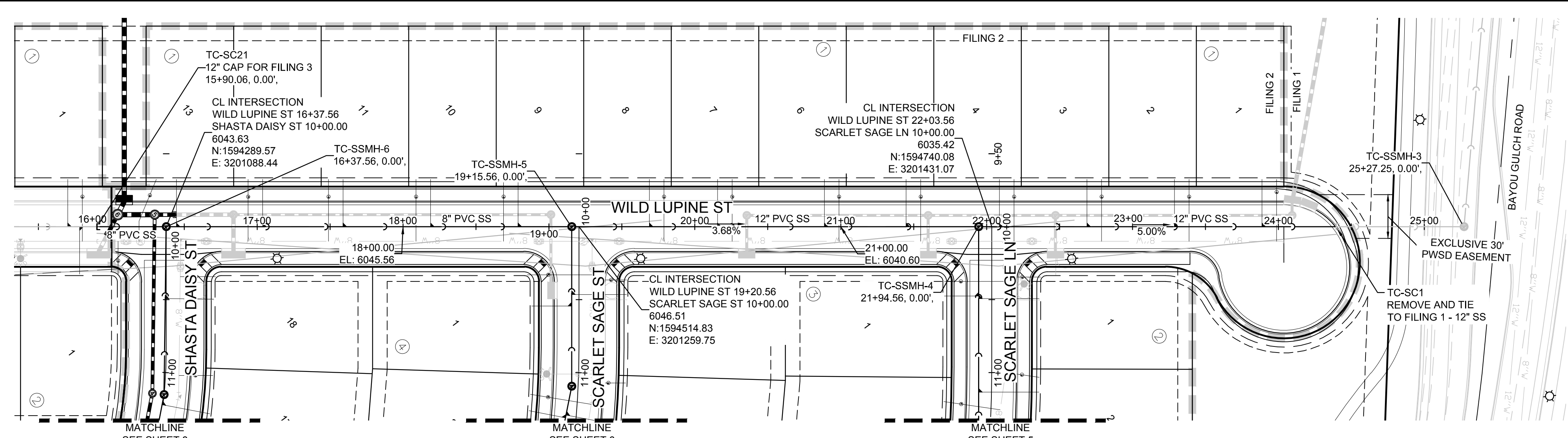
TRAILS AT CROWFOOT  
FILING 2 CONSTRUCTION DRAWINGS  
AREA UTILITY PLAN

SCALE: AS SHOWN  
FILE NO: 8130283701

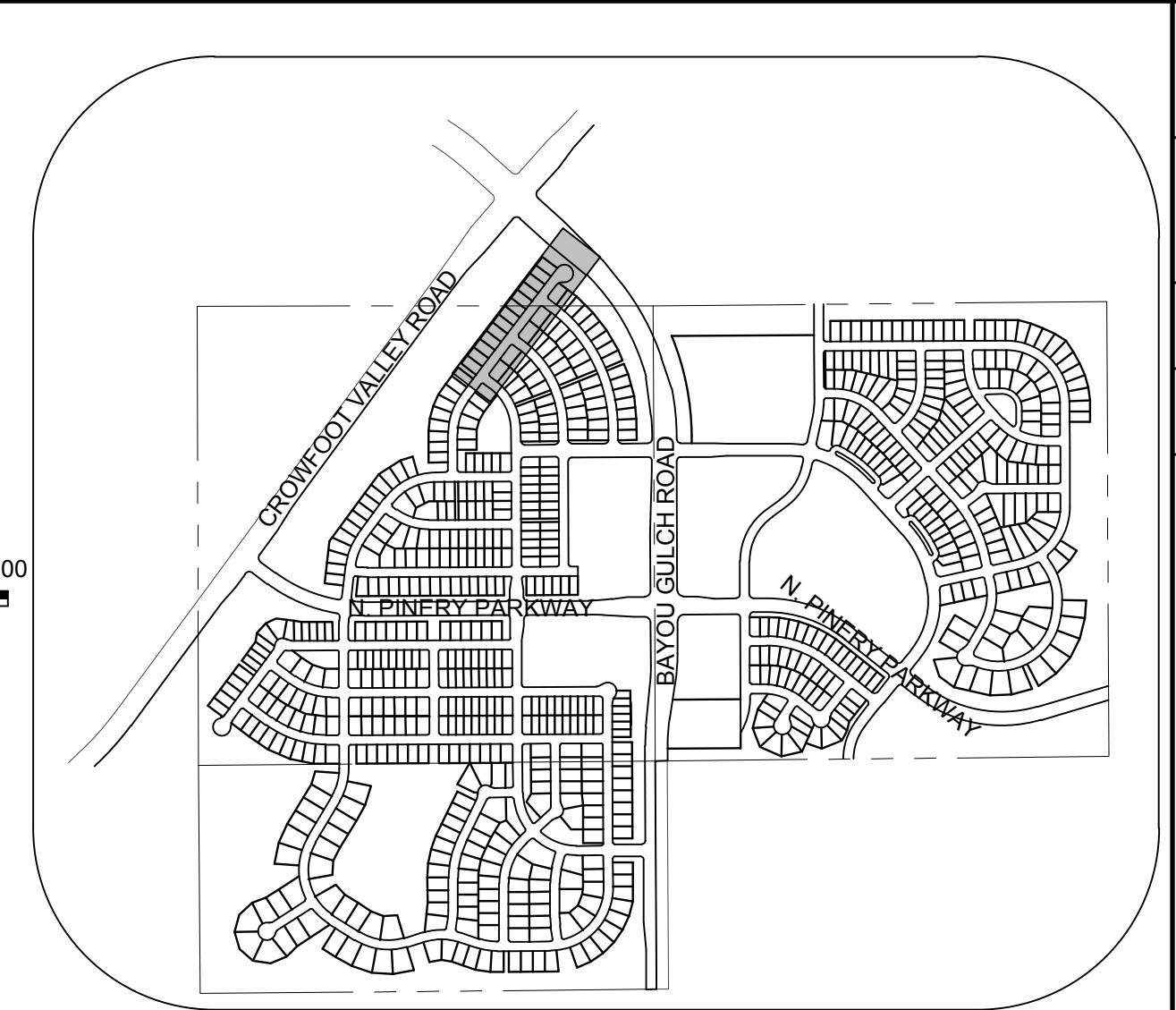
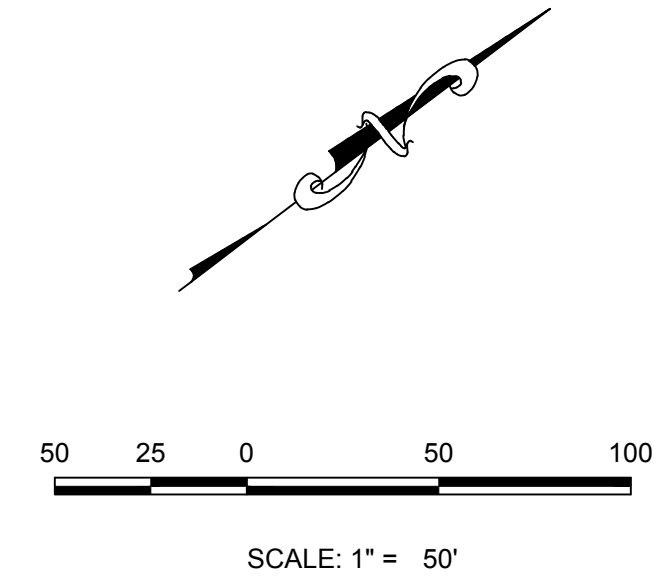
DRAWN BY: JLR  
CHECKED BY: JJJ  
DATE: AUGUST 2017

SHEET NUMBER 3

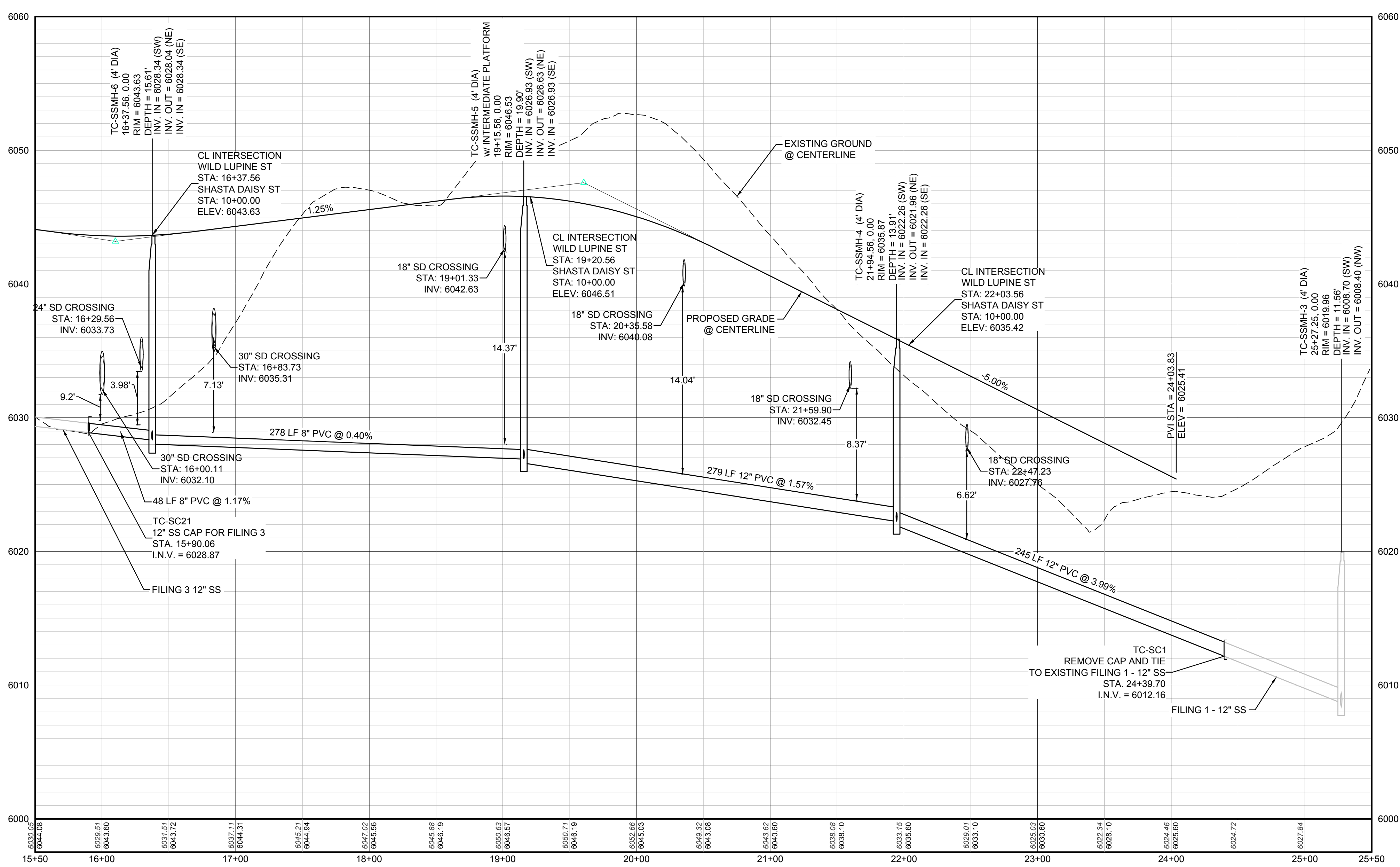
No. \_\_\_\_\_  
Revisions \_\_\_\_\_  
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Date \_\_\_\_\_  
Appr. \_\_\_\_\_  
Date \_\_\_\_\_



PLAN: WILD LUPINE ST STA: 15+50.00 TO 25+50.00  
HORIZONTAL SCALE: 1" = 50'



KEYMAP  
N.T.S.  
LEGEND



PROFILE: WILD LUPINE ST STA: 15+50.00 TO 25+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

FILING, BLOCK, LOT	STREET	STATIONING
F2,B1,L1	WILD LUPINE ST	23+88.83
F2,B1,L2	WILD LUPINE ST	23+28.83
F2,B1,L3	WILD LUPINE ST	22+68.83
F2,B1,L4	WILD LUPINE ST	22+08.83
F2,B1,L5	WILD LUPINE ST	21+44.83
F2,B1,L6	WILD LUPINE ST	20+88.83
F2,B1,L7	WILD LUPINE ST	20+15.58
F2,B1,L8	WILD LUPINE ST	19+68.83
F2,B1,L9	WILD LUPINE ST	18+78.83
F2,B1,L10	WILD LUPINE ST	18+18.83
F2,B1,L11	WILD LUPINE ST	17+58.83
F2,B1,L12	WILD LUPINE ST	17+03.73
F2,B1,L13	WILD LUPINE ST	16+44.56

**LEGEND**

- 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
- 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
- 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

**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	ROBC	REINFORCED CONCRETE BOX CULVERT
ELEVATION	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
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

10333 E. Dry Creek Rd.  
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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 2 CONSTRUCTION DRAWINGS  
SANITARY SEWER PLAN AND PROFILE  
WILD LUPINE ST

SCALE: AS SHOWN  
FILE NO: 8130283701

DRAWN BY: KJD  
CHECKED BY: JJJ  
DATE: AUGUST 2017

SHEET NUMBER: 4

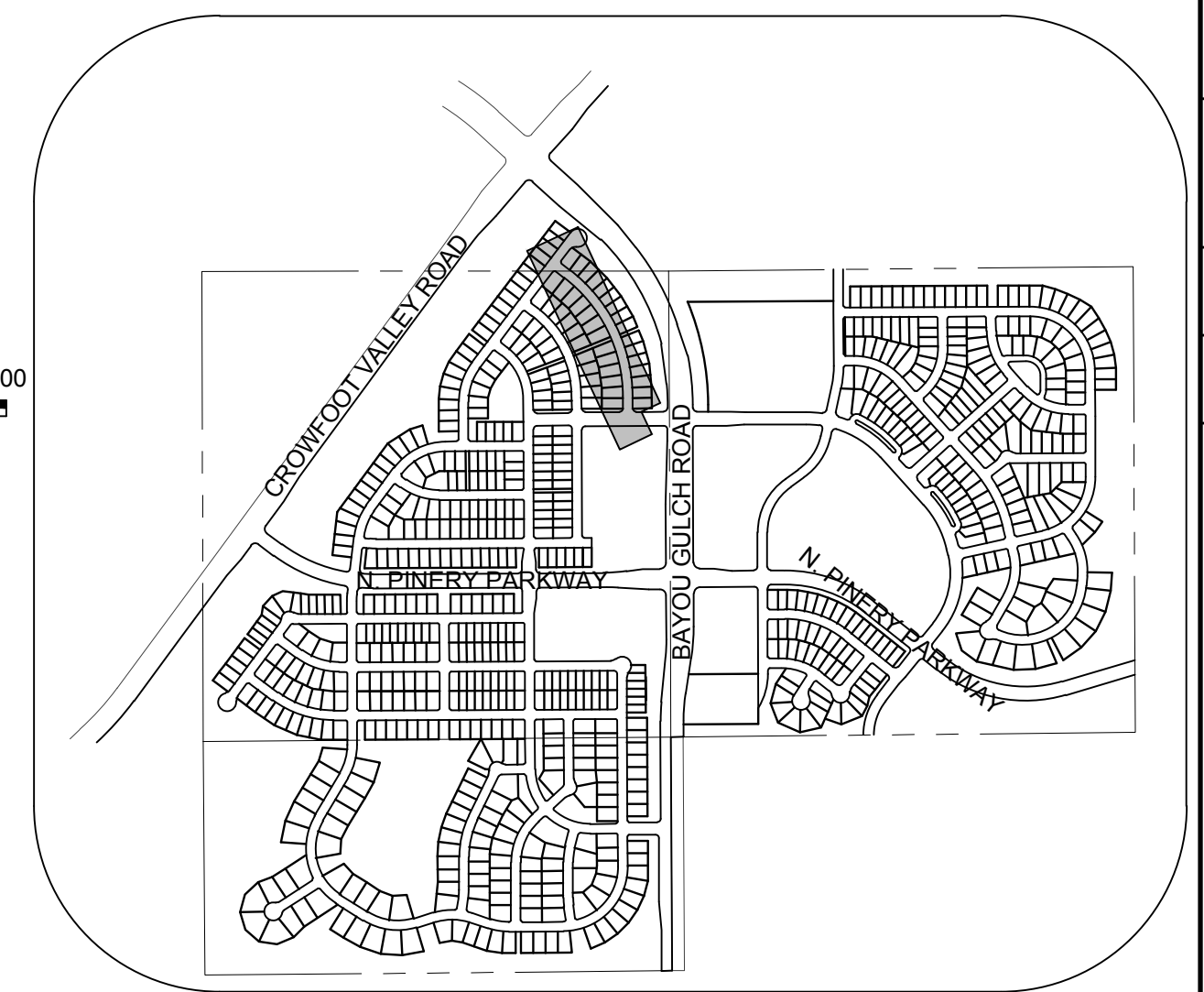
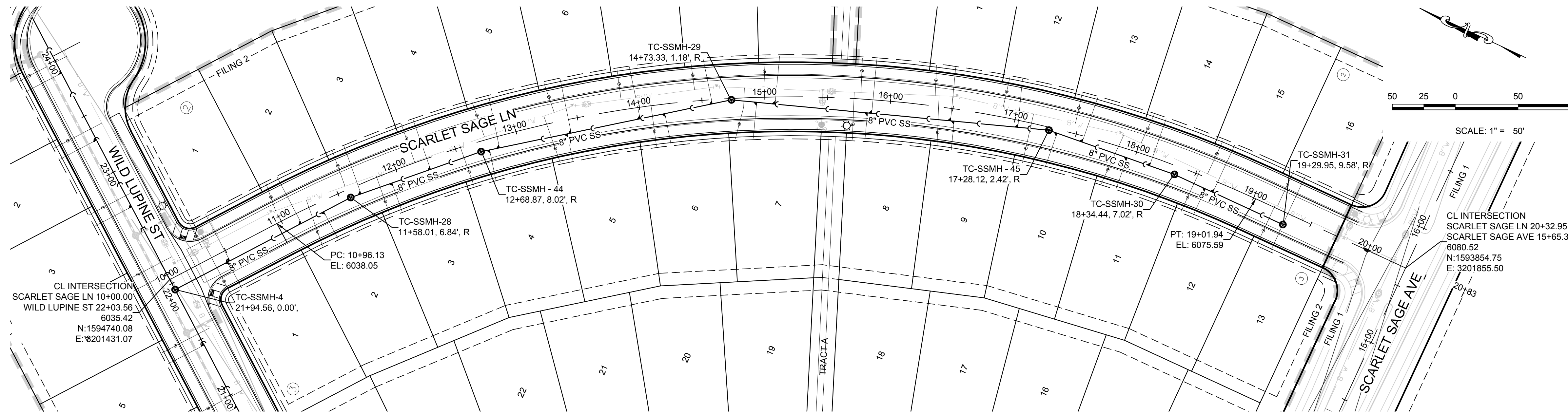
Revisions: No. Date Init. Appr. Date

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UTILITY NOTIFICATION CENTER OF COLORADO

**BENCHMARK**  
THE DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.069032, 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.

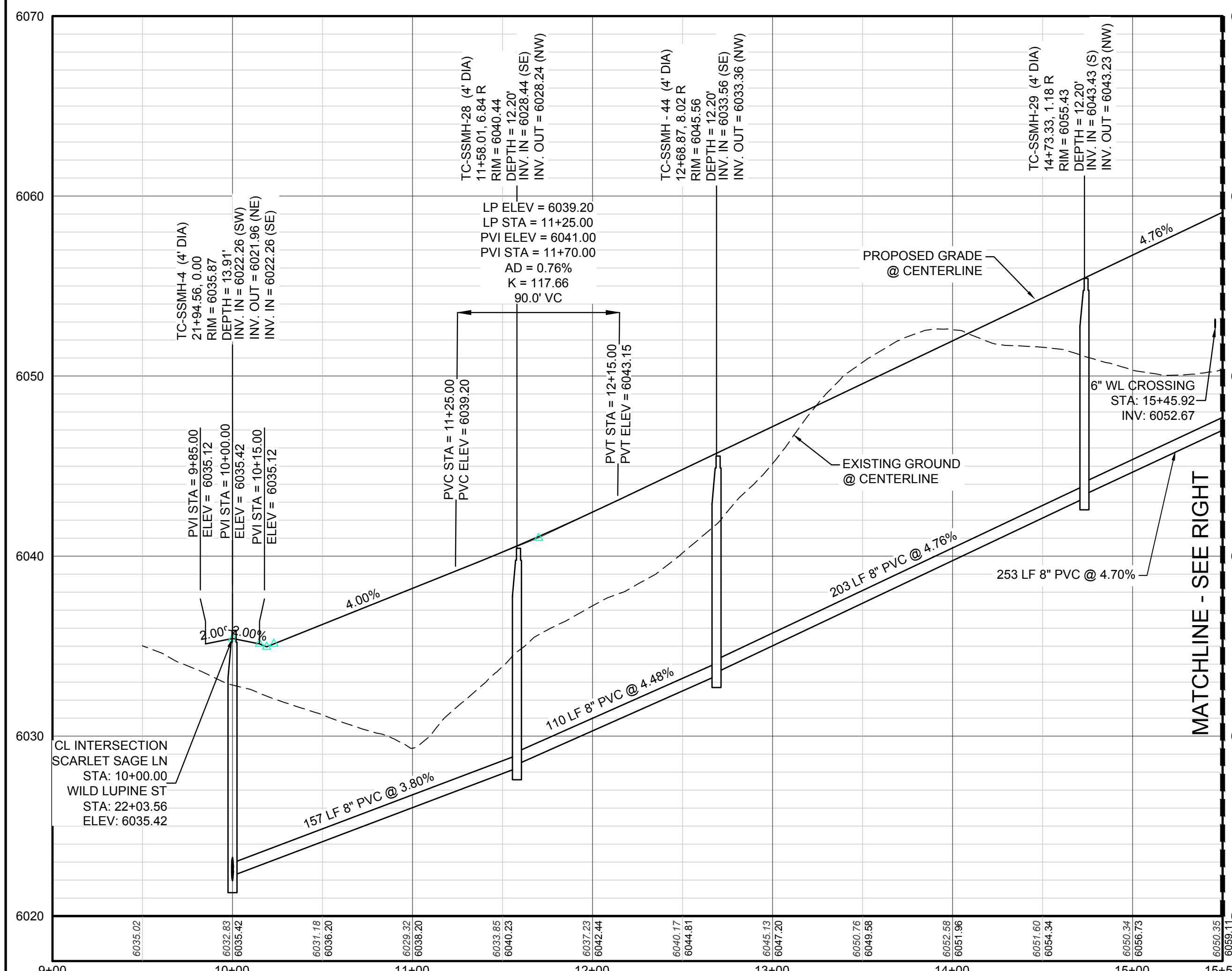
**BASIS OF BEARINGS:**  
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH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

PREPARED UNDER THE SUPERVISION OF  
  
BRIAN P. WILSON  
COLORADO P.E. 0050067

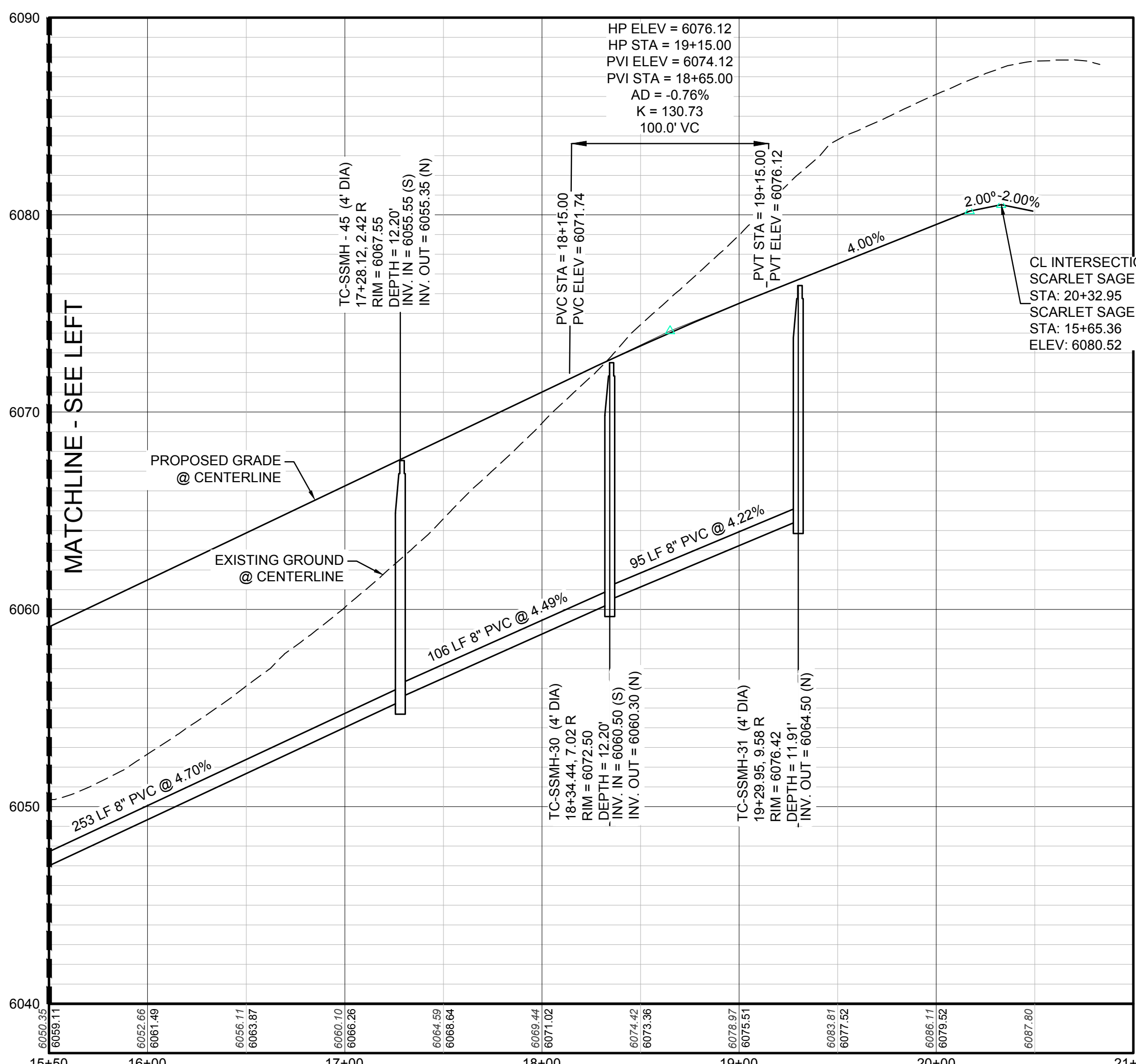


**KEYMAP**  
N.T.S.

**PLAN: SCARLET SAGE LN STA: 09+00.00 TO 21+00.00**  
HORIZONTAL SCALE: 1" = 50'



**PROFILE: SCARLET SAGE LN STA: 9+00.00 TO 15+50.00**  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



**PROFILE: SCARLET SAGE LN STA: 15+50.00 TO 21+00.00**  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

**LEGEND**

⊙	BLOCK NUMBER	△	PROPOSED RANGE POINT	
⑥	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 WL FITTING WITH THRUST BLOCK	---	EXISTING 5' CONTOUR	
⊕	PROPOSED FLARED END SECTION	---	EXISTING 1' CONTOUR	
⊕	PROPOSED LOW POINT BLOW-OFF	---	PROPOSED 5' CONTOUR	
⊕	PROPOSED AIR VALVE	---	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	EXISTING FIBER OPTIC LINE
⊕	PROPOSED STORM DRAIN MANHOLE	---	OH	EXISTING OVERHEAD POWER
		---	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
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ELEVATION	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

**NOTES:**  
1. SEE SHEET 3 FOR F2, B2, L1-16 & F3, B3, L1-13 SANITARY SERVICE DETAILS.

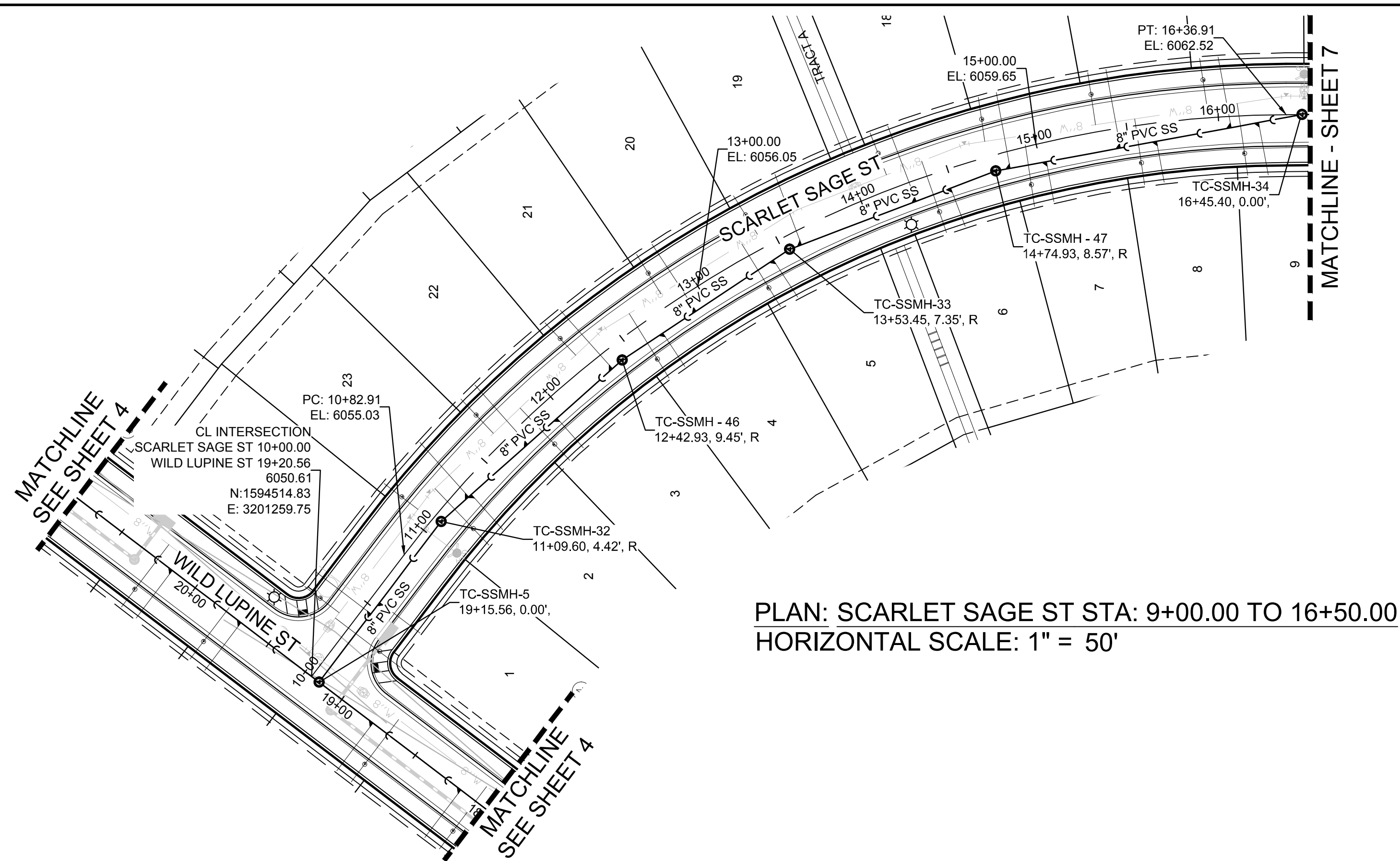
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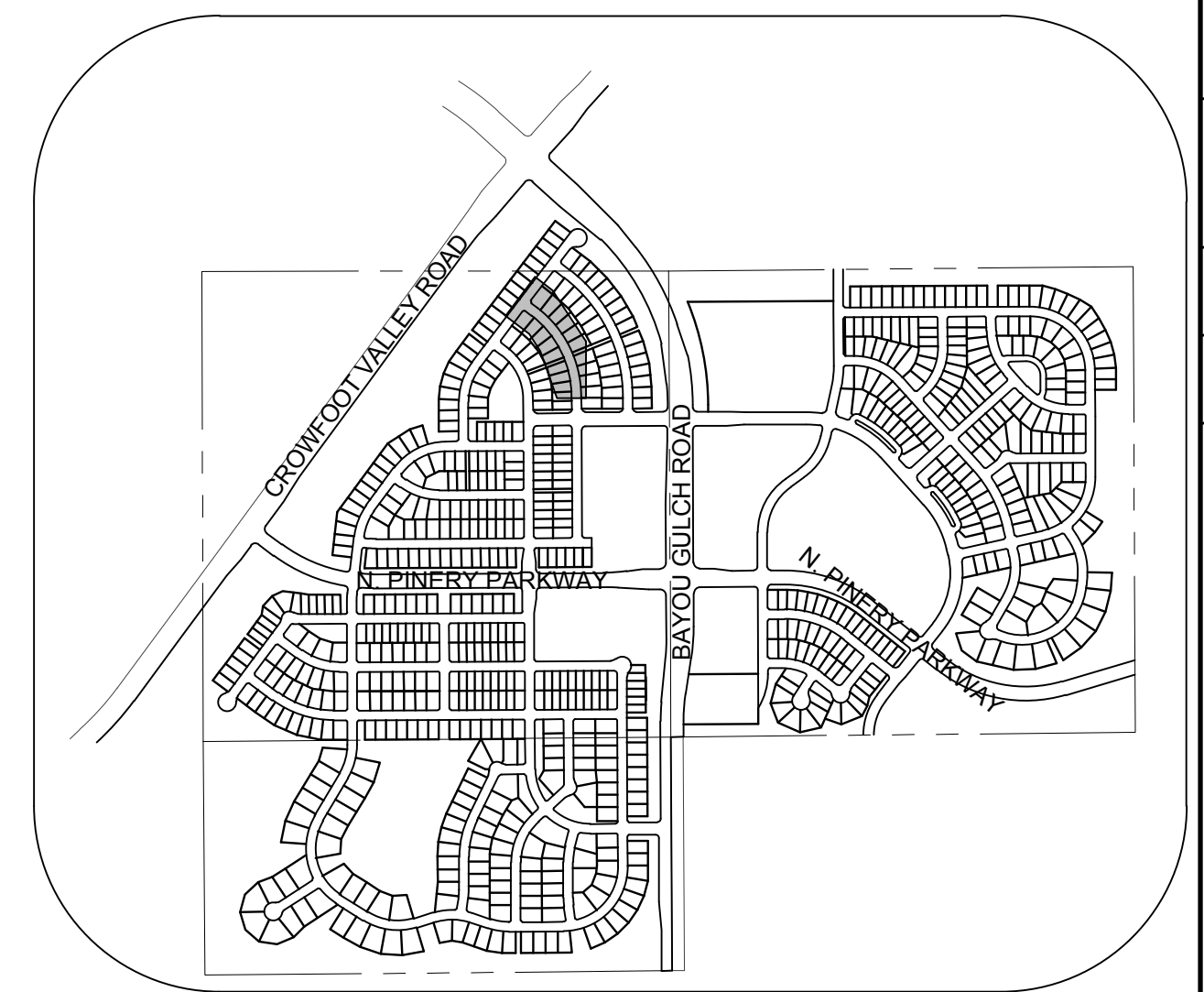
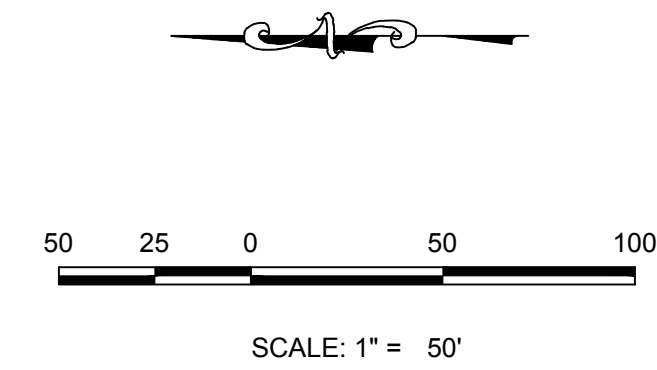
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10333 E. Dry Creek Rd. Denver, CO 80141 Engineered: 05/16/10 Tel: (720) 482-9526 Fax: (720) 482-9548	Revisions	Date	Appr.	Date
<b>CVL</b> CONSULTANTS	No.			
<b>HR 935 LLC</b> 7353 South Alton Way CENTENNIAL, CO 80112				
<b>TRAILS AT CROWFOOT</b> FILING 2 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE SCARLET SAGE LN				
SCALE: AS SHOWN FILE NO: 8130283701				
DRAWN BY: KJD CHECKED BY: JU DATE: AUGUST 2017				
SHEET NUMBER <b>5</b>				



PLAN: SCARLET SAGE ST STA: 9+00.00 TO 16+50.00  
HORIZONTAL SCALE: 1" = 50'

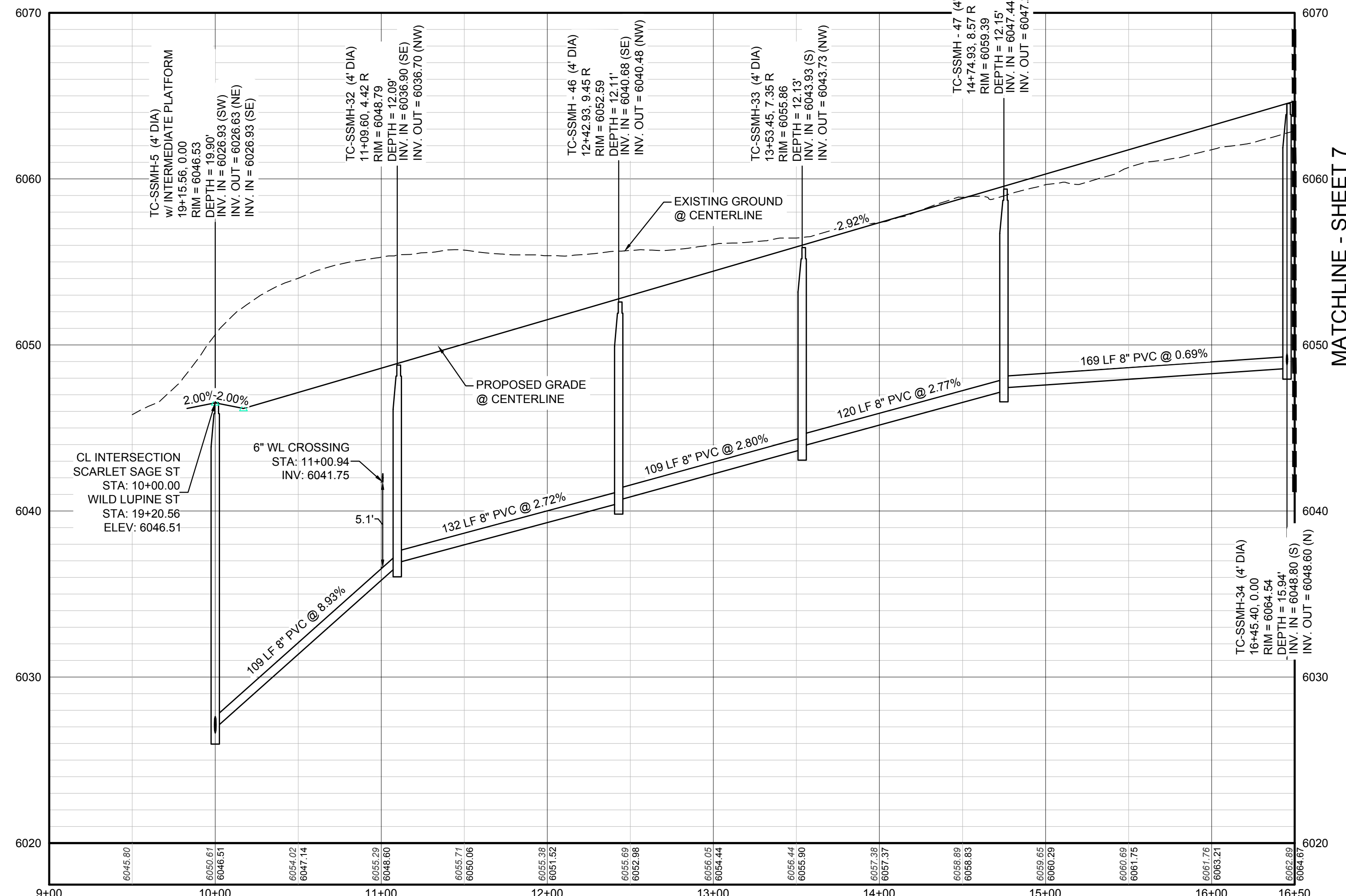


KEYMAP  
N.T.S.  
LEGEND

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	---	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

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PROFILE: SCARLET SAGE ST STA: 9+00.00 TO 16+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

SANITARY SERVICE TABLE

FILING, BLOCK, LOT	STREET	STATIONING
F2.B3.L15	SCARLET SAGE ST	16+06.71
F2.B3.L16	SCARLET SAGE ST	15+44.89
F2.B3.L17	SCARLET SAGE ST	14+83.02
F2.B3.L18	SCARLET SAGE ST	14+28.07
F2.B3.L19	SCARLET SAGE ST	13+60.50
F2.B3.L20	SCARLET SAGE ST	12+91.84
F2.B3.L21	SCARLET SAGE ST	12+35.76
F2.B3.L22	SCARLET SAGE ST	11+73.12
F2.B3.L23	SCARLET SAGE ST	11+29.62
F2.B3.L24	SCARLET SAGE ST	10+54.33
F2.B4.L1	SCARLET SAGE ST	10+46.50
F2.B4.L2	SCARLET SAGE ST	11+31.63
F2.B4.L3	SCARLET SAGE ST	11+94.70
F2.B4.L4	SCARLET SAGE ST	12+69.86
F2.B4.L5	SCARLET SAGE ST	13+42.85
F2.B4.L7	SCARLET SAGE ST	15+03.32
F2.B4.L8	SCARLET SAGE ST	15+65.22
F2.B4.L9	SCARLET SAGE ST	16+21.80

BENCHMARK  
THE DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.069032, 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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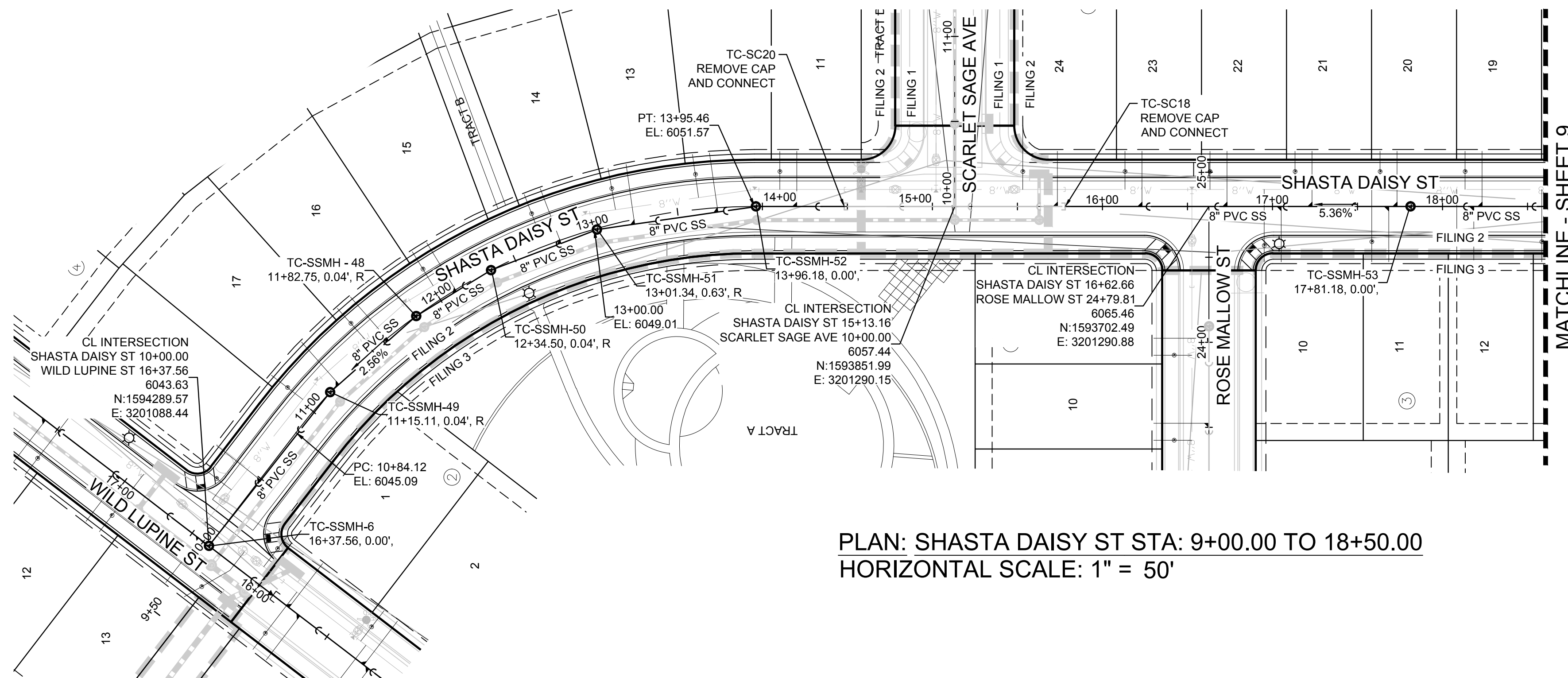
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BRIAN P. WILSON  
COLORADO P.E. 0050067

10338 E. Dry Creek Rd. Suite 410 Englewood, CO 80150 Tel: (720) 482-9526 Fax: (720) 482-9546	Revisions	Date	Appr.	Date
<b>CVL</b> CONSULTANTS	No.			
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112				
TRAILS AT CROWFOOT FILING 2 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE SCARLET SAGE ST				
SCALE: AS SHOWN	DRAWN BY: K.D.	FILE NO: 8130283701	DATE: AUGUST 2017	
SHEET NUMBER <b>6</b>				

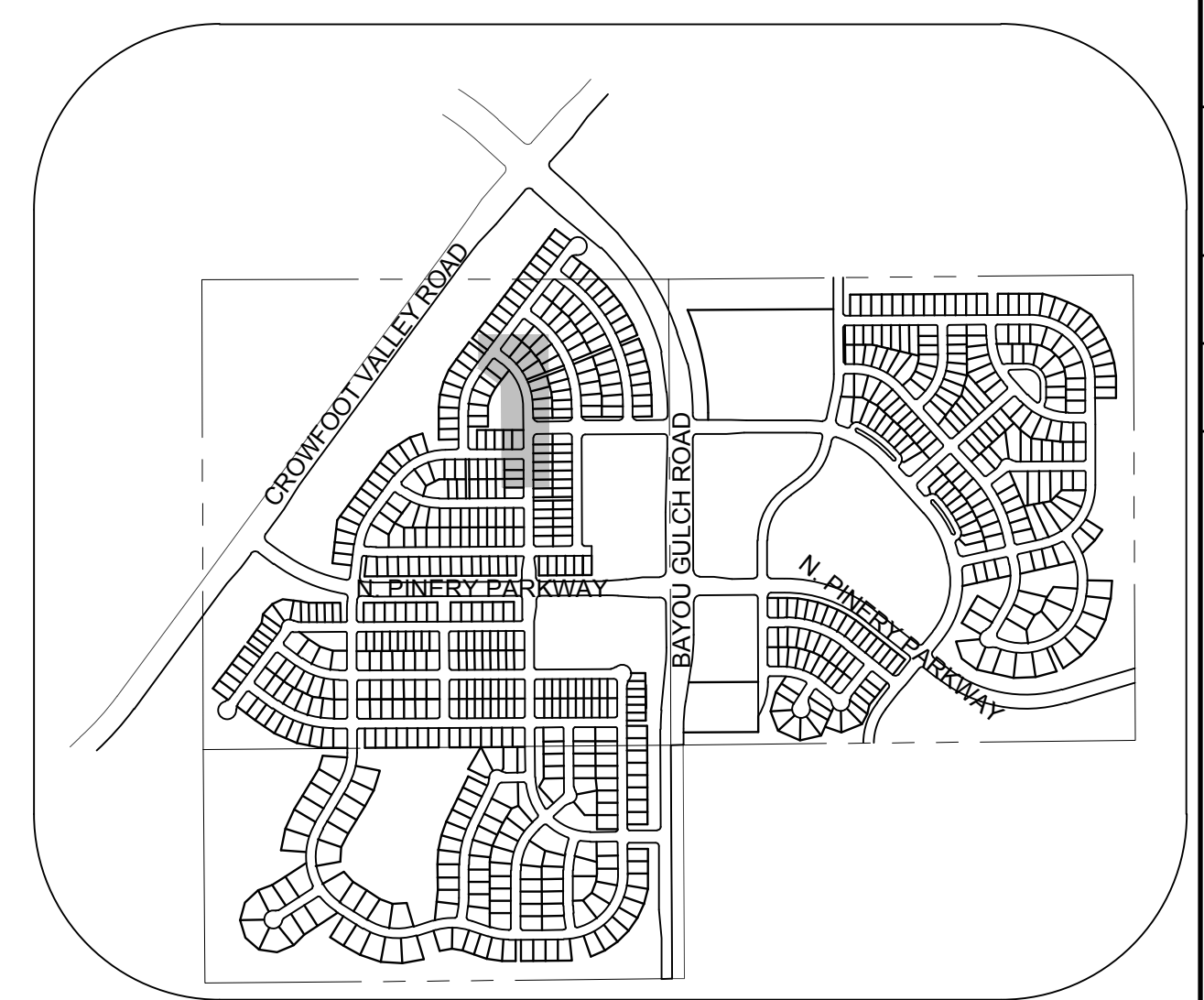
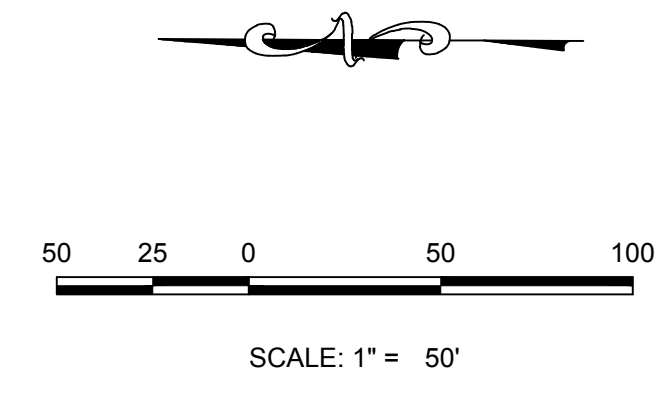
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N:\PROJECTS\SSR\BENCHM\ENGINEERING\SSR\SSR\SCARLET SAGE ST SANITARY.DWG, HAYDEN, 2/27/2018 5:13 PM





PLAN: SHASTA DAISY ST STA: 9+00.00 TO 18+50.00  
HORIZONTAL SCALE: 1" = 50'

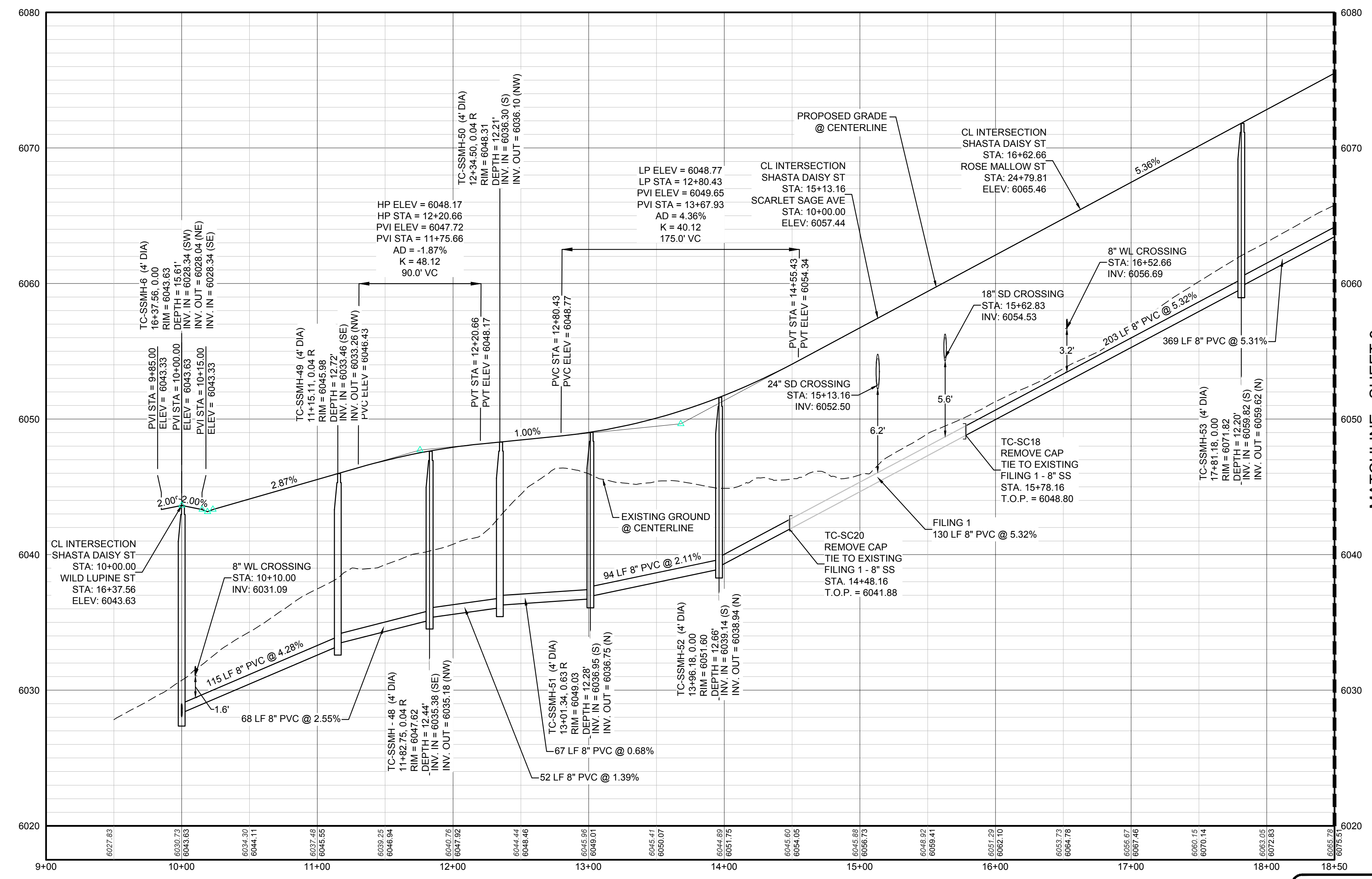


KEYMAP  
N.T.S.  
LEGEND

SANITARY SERVICE TABLE		
FILING, BLOCK, LOT	STREET	STATIONING
F2,B4,L11	SHASTA DAISY ST	14+20.25
F2,B4,L12	SHASTA DAISY ST	13+73.75
F2,B4,L13	SHASTA DAISY ST	13+23.85
F2,B4,L14	SHASTA DAISY ST	12+78.83
F2,B4,L15	SHASTA DAISY ST	12+10.63
F2,B4,L16	SHASTA DAISY ST	11+61.30
F2,B4,L17	SHASTA DAISY ST	11+22.09
F2,B4,L18	SHASTA DAISY ST	10+49.20
F2,B5,L19	SHASTA DAISY ST	18+23.30
F2,B5,L20	SHASTA DAISY ST	17+73.30
F2,B5,L21	SHASTA DAISY ST	17+23.30
F2,B5,L22	SHASTA DAISY ST	16+73.30
F2,B5,L23	SHASTA DAISY ST	16+23.30
F2,B5,L24	SHASTA DAISY ST	15+73.49
F3,B3,L10	SHASTA DAISY ST	17+05.16
F3,B3,L11	SHASTA DAISY ST	17+68.44
F3,B3,L12	SHASTA DAISY ST	18+18.44

**LEGEND**

②	BLOCK NUMBER	△	PROPOSED RANGE POINT
Ⓐ	LOT TYPE	---	CENTERLINE
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⊗	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 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
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⊗	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE



PROFILE: SHASTA DAISY ST STA: 9+00.00 TO 18+50.00  
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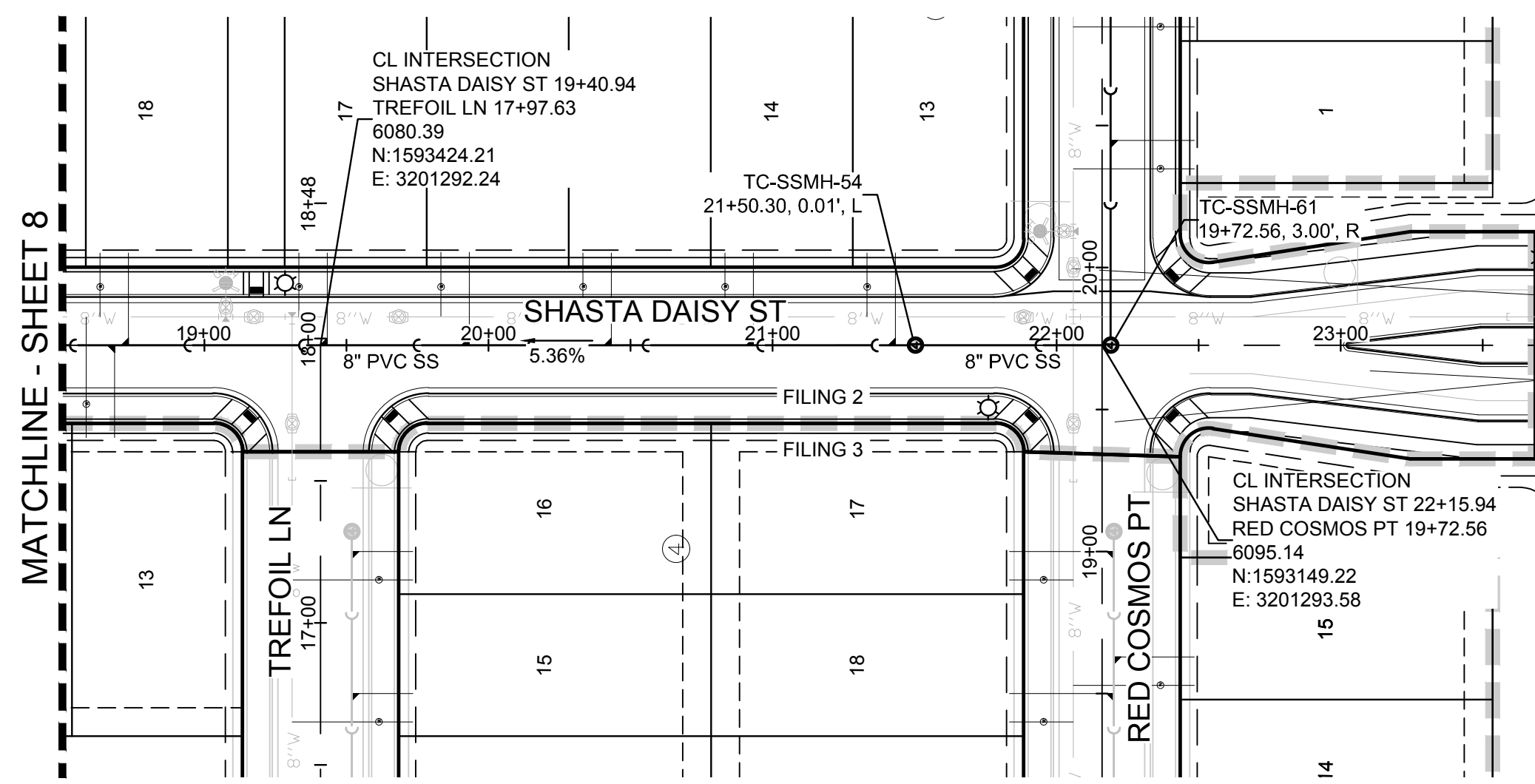
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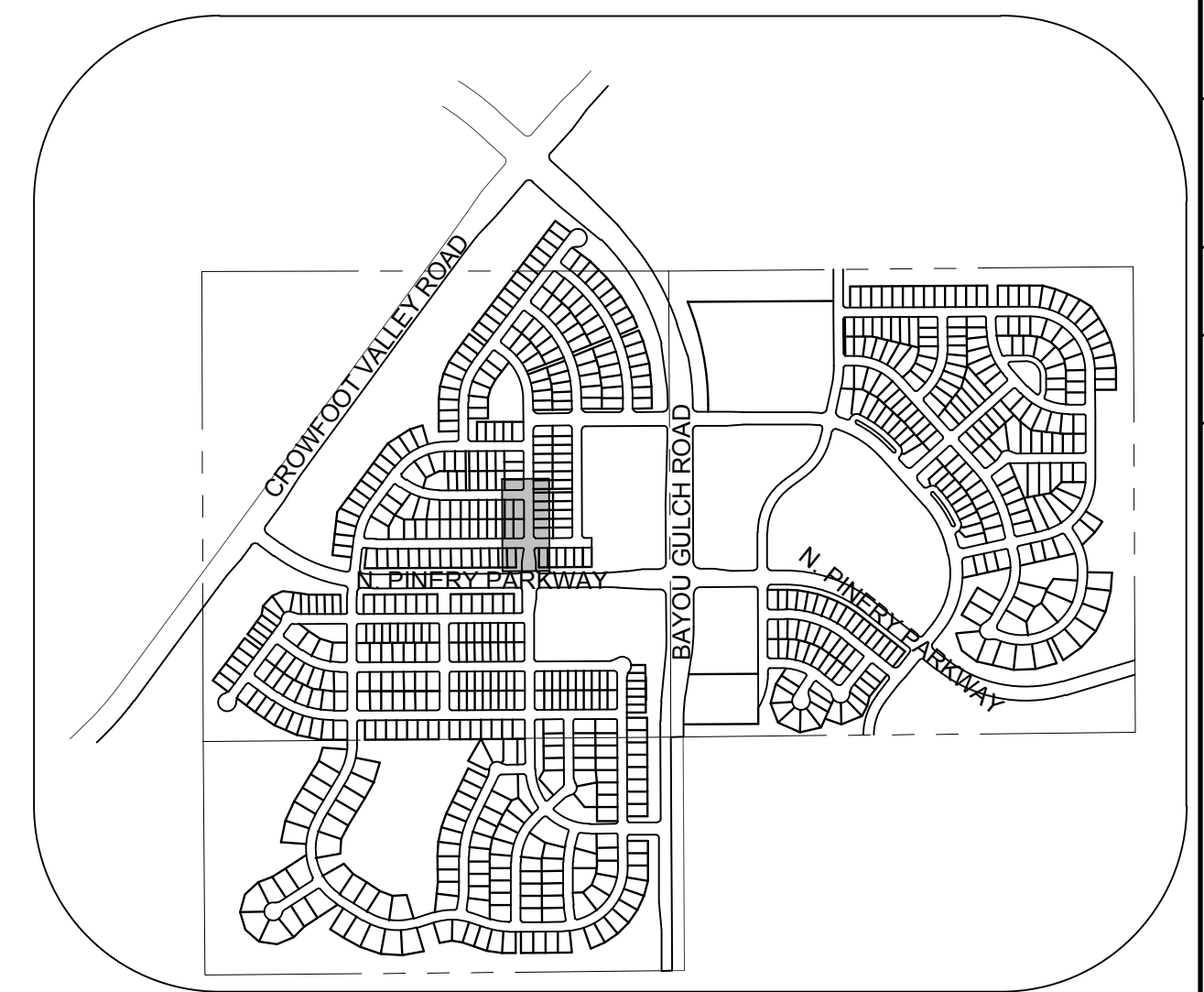
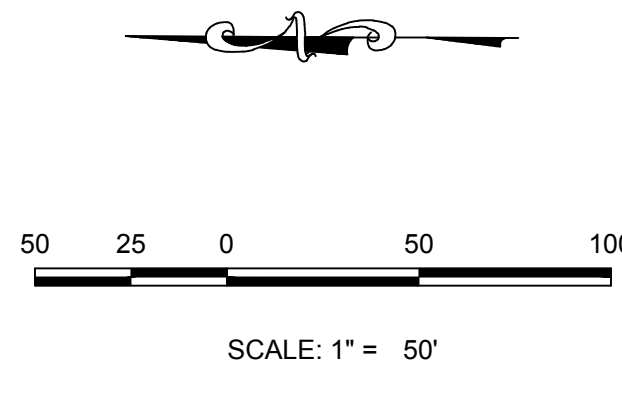
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COLORADO P.E. 0050067

SCALE:	AS SHOWN
DRAWN BY:	KJD
CHECKED BY:	JU
DATE:	AUGUST 2017
FILE NO.:	8130283701
SHEET NUMBER:	8
TRAILS AT CROWFOOT FILING 2 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE SHASTA DAISY ST	
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112	
10333 E. Dry Creek Rd. Suite 6410 Englewood, CO 80110 Tel: (720) 482-9526 Fax: (720) 482-9546	
No.	Revisions
Date	Init.
Date	Appr.
Date	

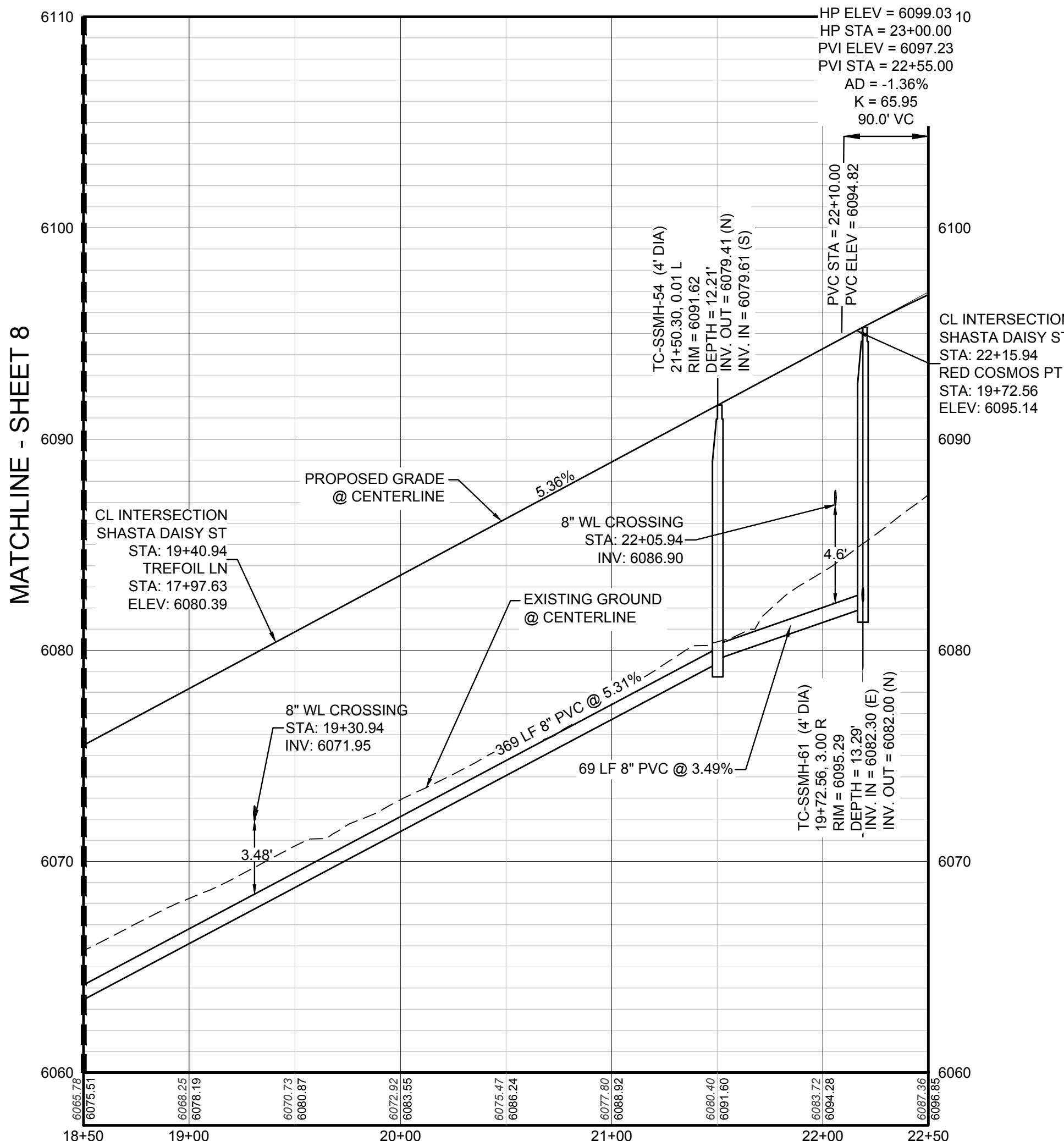
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PLAN: SHASTA DAISY ST STA: 18+50.00 TO 22+50.00  
HORIZONTAL SCALE: 1" = 50'



KEYMAP  
N.T.S.



PROFILE: SHASTA DAISY ST STA: 18+50.00 TO 22+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

FILING, BLOCK, LOT	STREET	STATIONING
F2.B5.L13	SHASTA DAISY ST	21+43.30
F2.B5.L14	SHASTA DAISY ST	20+93.30
F2.B5.L15	SHASTA DAISY ST	20+43.30
F2.B5.L16	SHASTA DAISY ST	19+93.30
F2.B5.L17	SHASTA DAISY ST	19+43.30
F2.B5.L18	SHASTA DAISY ST	18+73.30
F3.B3.L13	SHASTA DAISY ST	18+68.44

**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	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	8" W	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	ROBC	REINFORCED CONCRETE BOX CULVERT
CRR	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
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

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**CVL**  
CONSULTANTS

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 2 CONSTRUCTION DRAWINGS  
SANITARY SEWER PLAN AND PROFILE  
SHASTA DAISY ST

SCALE: AS SHOWN  
DRAWN BY: KJD  
CHECKED BY: JJ  
DATE: AUGUST 2017  
FILE NO: 8130283701

SHEET NUMBER  
**9**

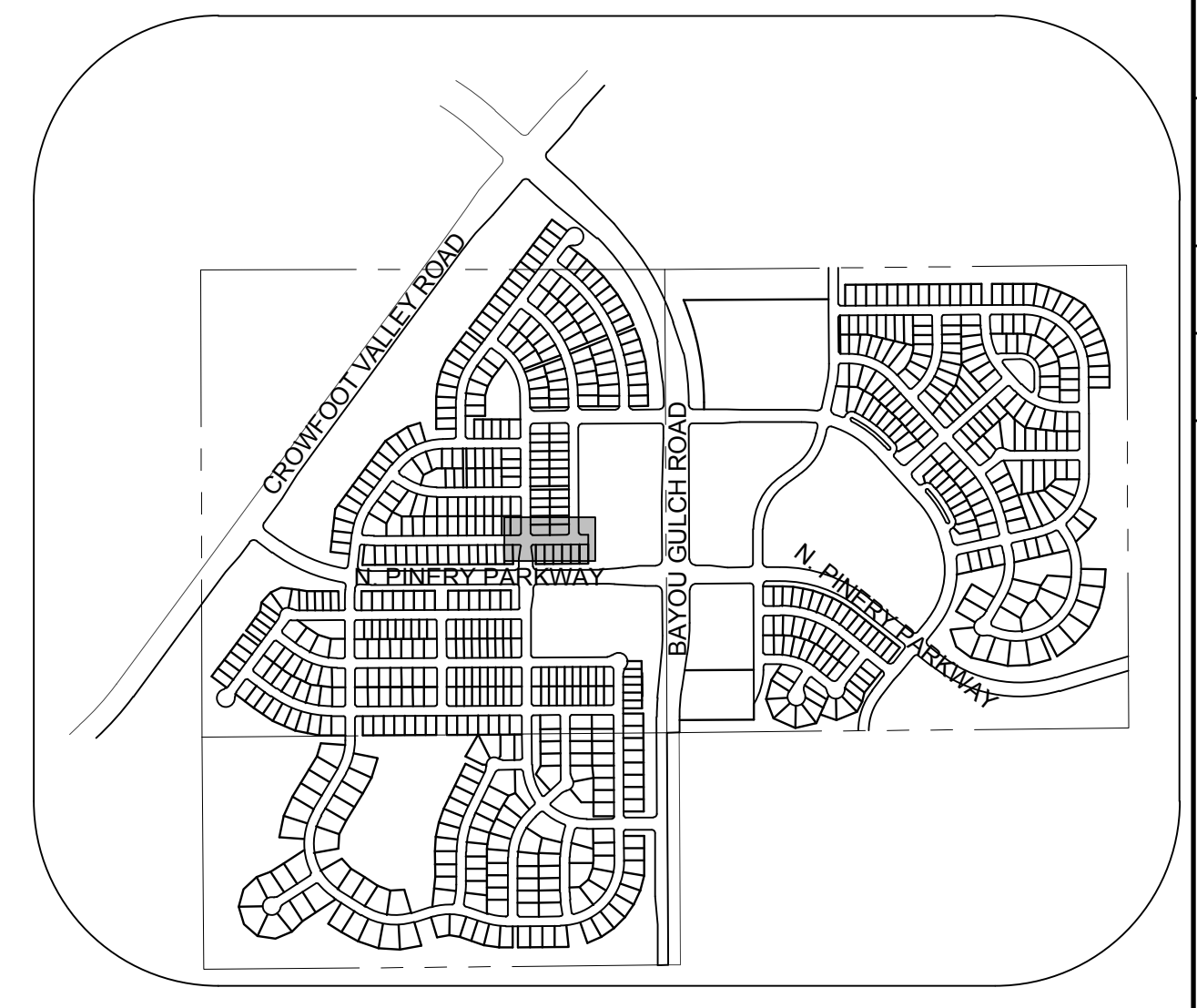
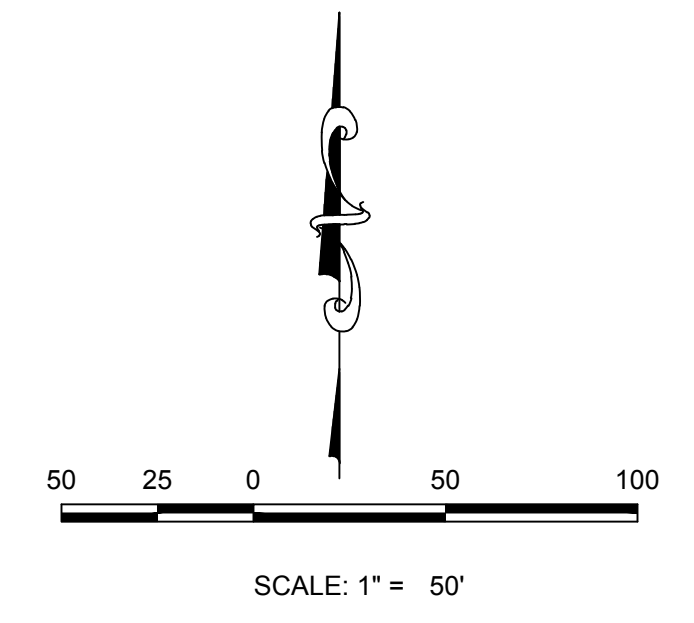
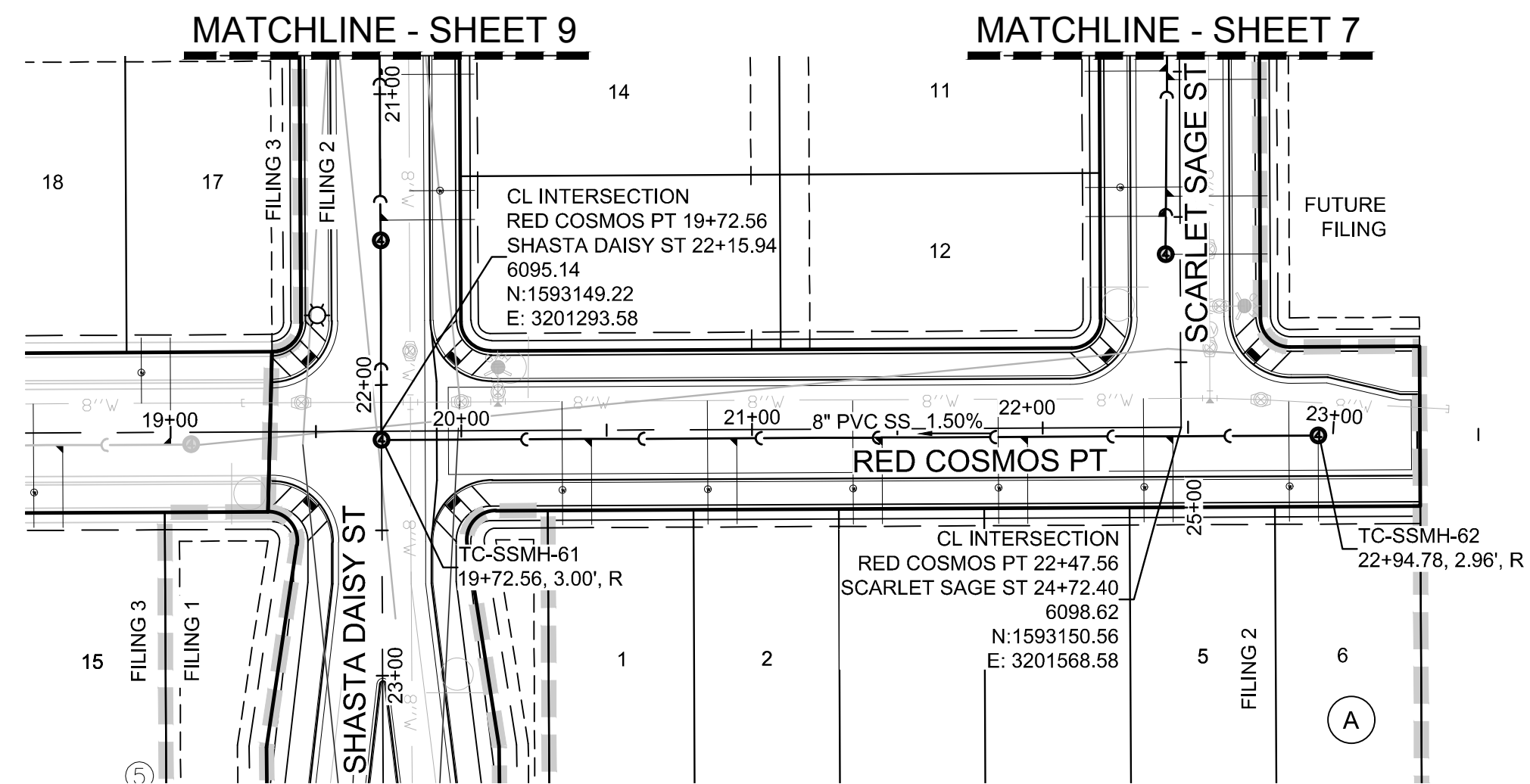
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UNCC 1-800-922-1987  
UTILITY NOTIFICATION CENTER OF COLORADO

**BENCHMARK**  
THE DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.069032, 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.

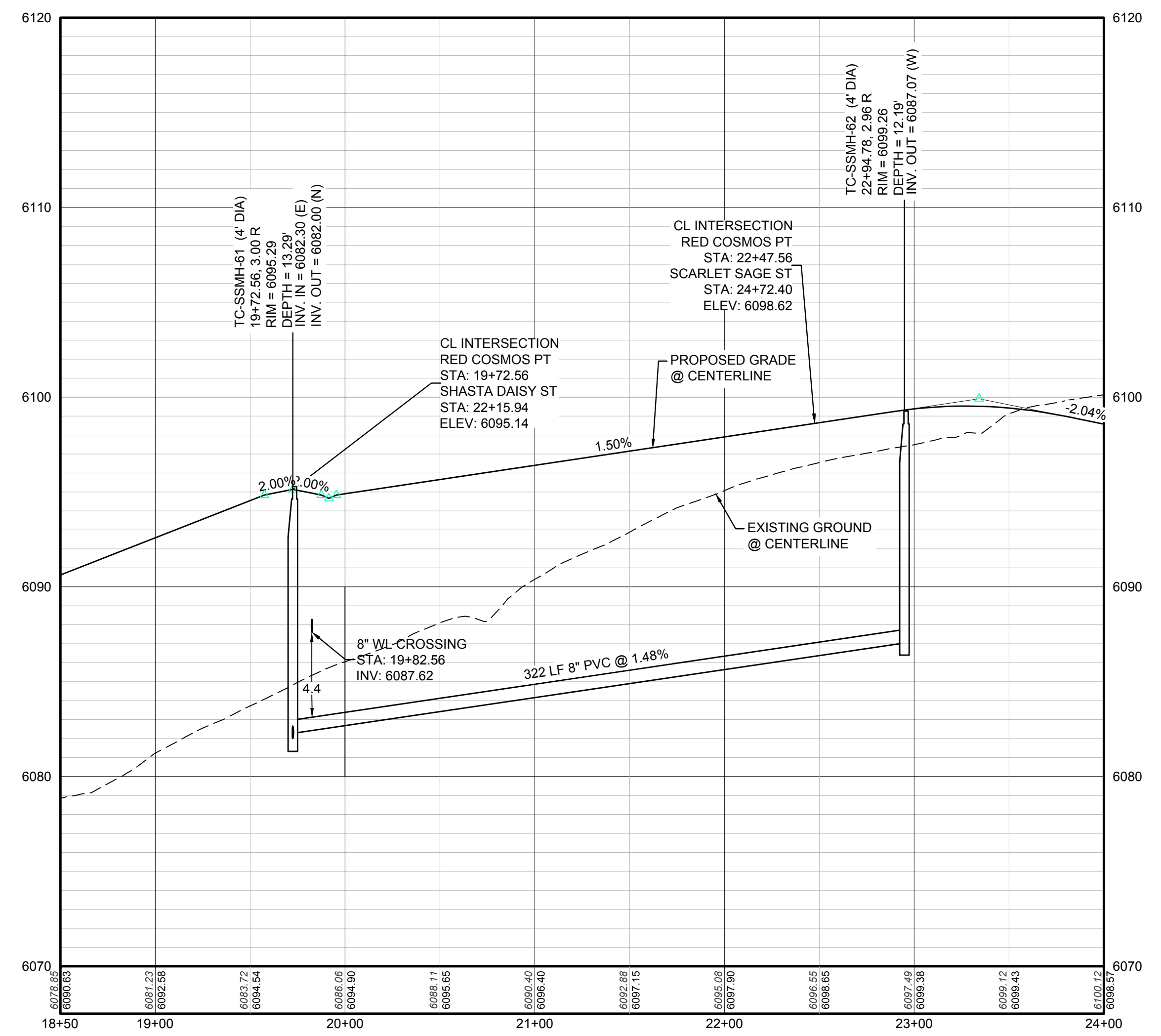
**BASIS OF BEARINGS:**  
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH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

PREPARED UNDER THE SUPERVISION OF  
  
BRIAN P. WILSON  
COLORADO P.E. 0050067



**KEYMAP**  
N.T.S.  
**LEGEND**

**PLAN: RED COSMOS POINT STA: 18+50.00 TO 24+00.00**  
HORIZONTAL SCALE: 1" = 50'



**PROFILE: RED COSMOS PT STA: 18+50.00 TO 24+00.00**  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

SANITARY SERVICE TABLE		
FILING, BLOCK, LOT	STREET	STATIONING
F2,B6,L1	RED COSMOS PT	20+44.70
F2,B6,L2	RED COSMOS PT	20+94.70
F2,B6,L3	RED COSMOS PT	21+44.70
F2,B6,L4	RED COSMOS PT	21+94.70
F2,B6,L5	RED COSMOS PT	22+44.70
F2,B6,L6	RED COSMOS PT	22+94.78

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 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			
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**TRAILS AT CROWFOOT**  
**FILING 2 CONSTRUCTION DRAWINGS**  
SANITARY SEWER PLAN AND PROFILE  
RED COSMOS POINT

SCALE: AS SHOWN  
DRAWN BY: KJD  
CHECKED BY: JJ  
DATE: AUGUST 2017  
FILE NO: 8130283701

SHEET NUMBER  
**10**

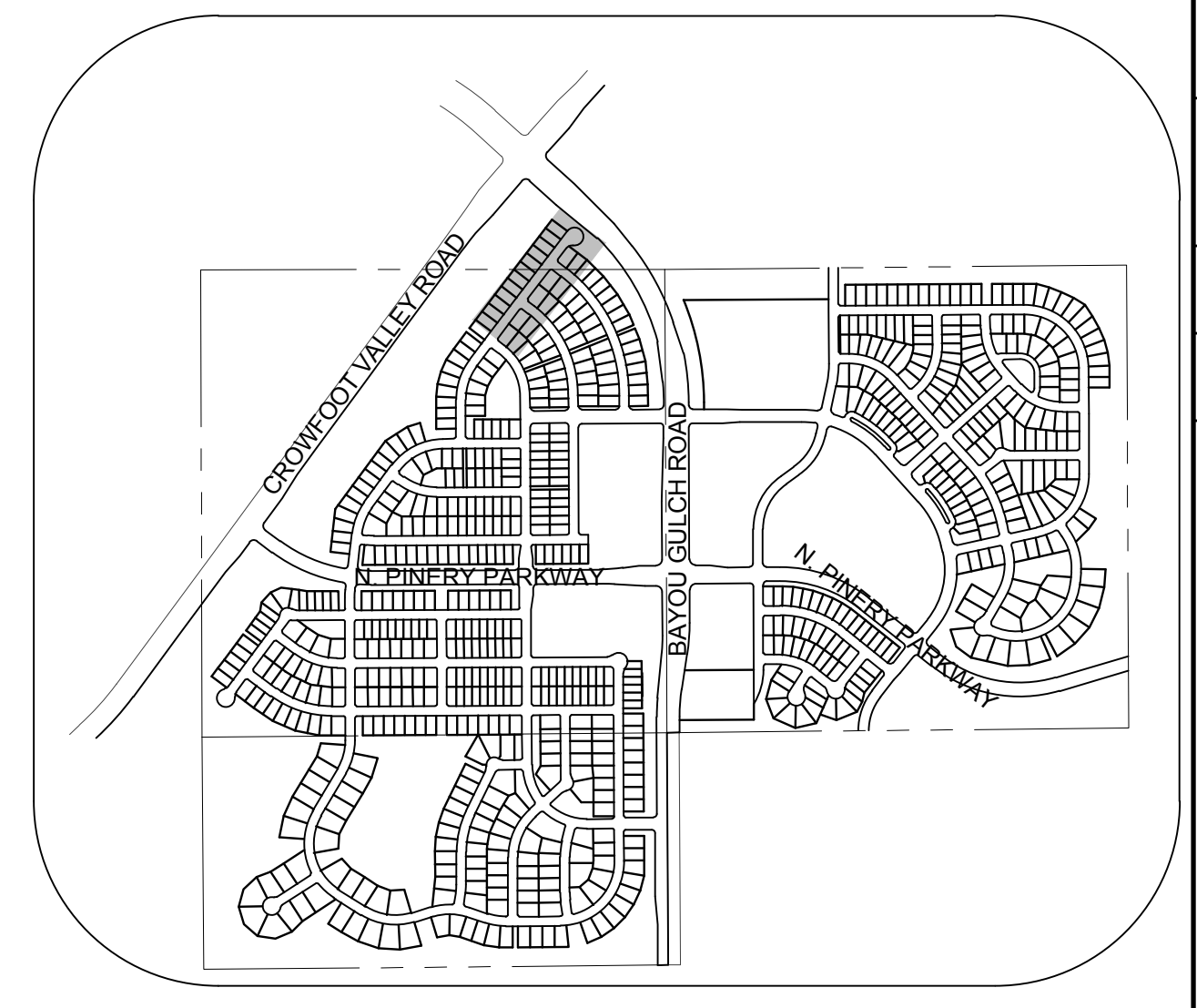
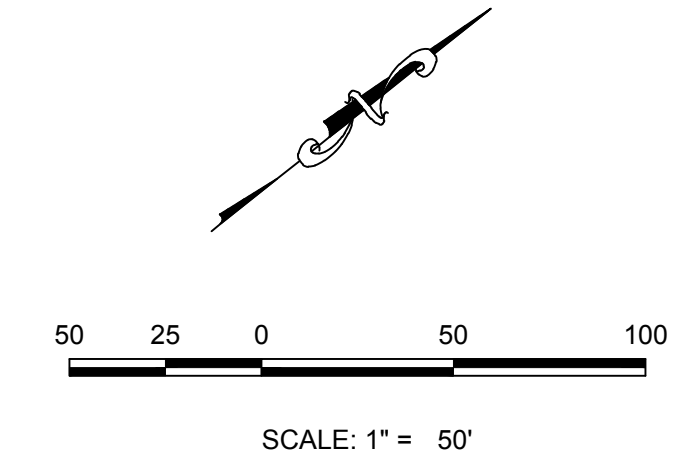
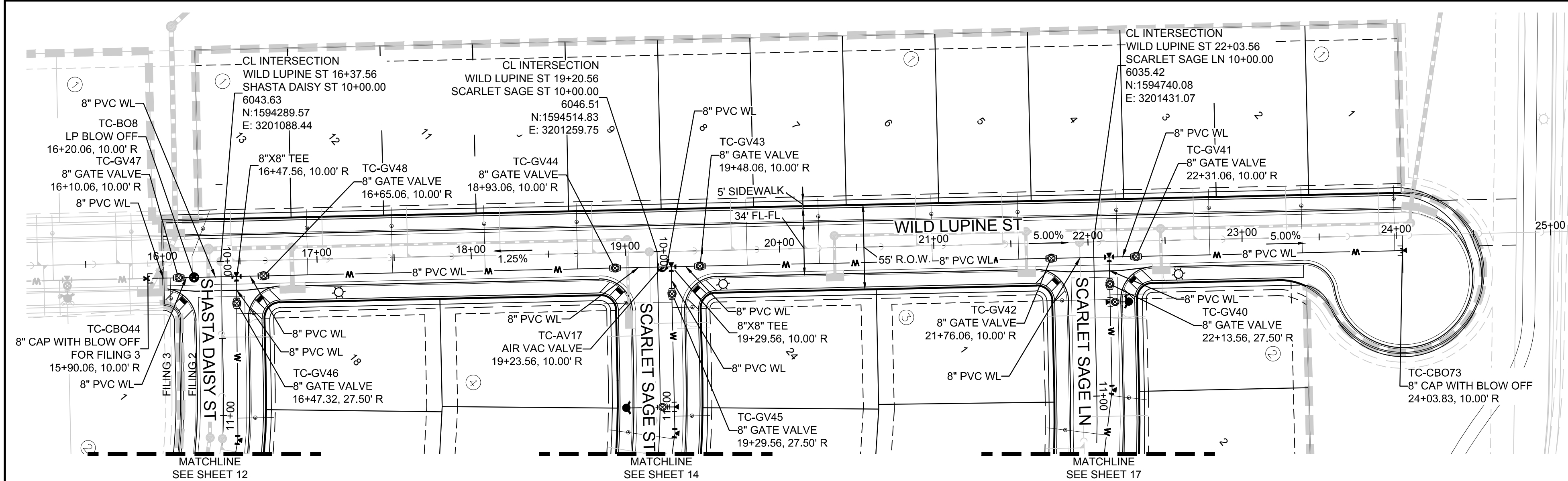
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UTILITY NOTIFICATION  
CENTER OF COLORADO

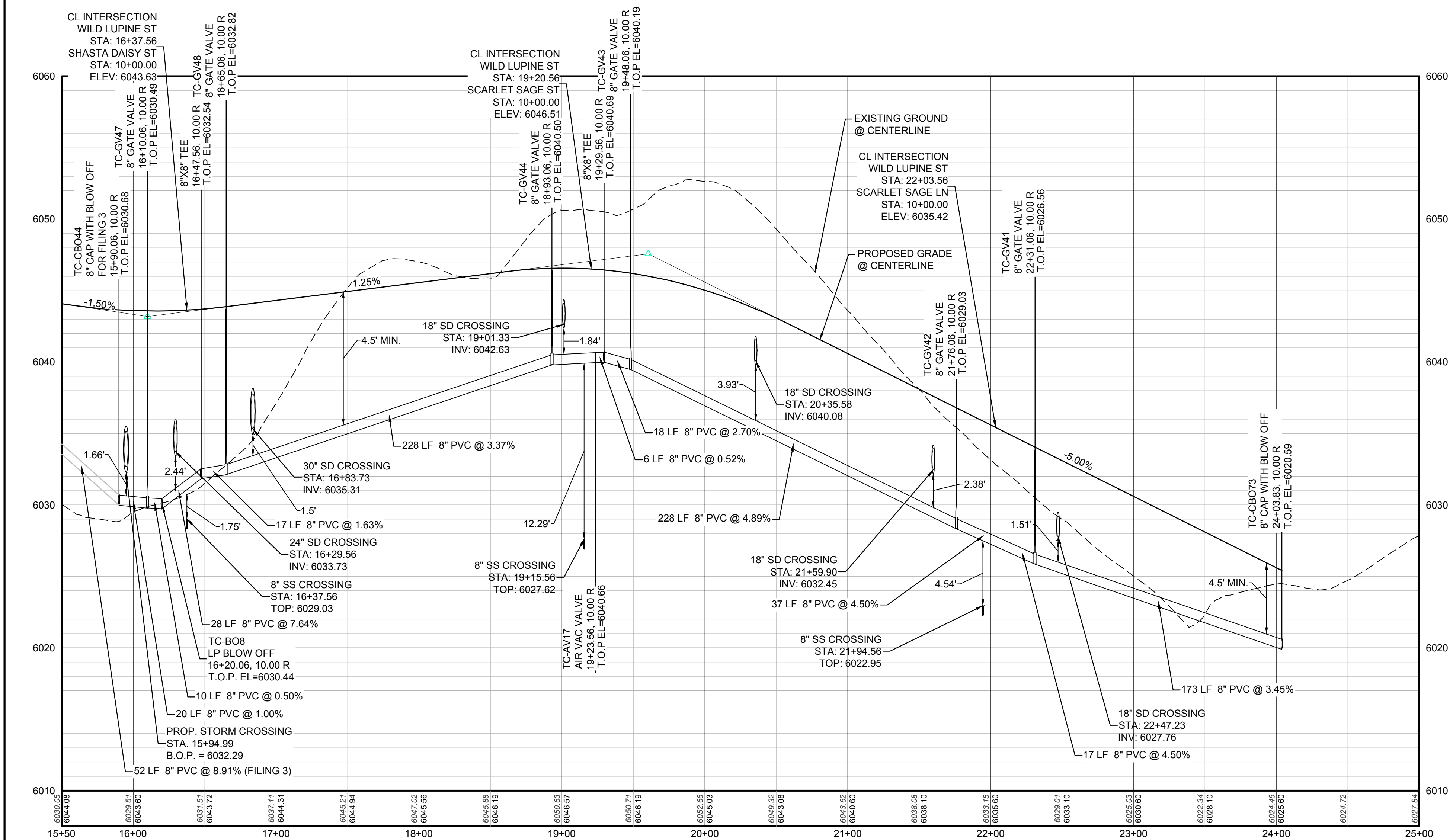
**BENCHMARK**  
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.069032, BEING A 3-3/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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PREPARED UNDER THE SUPERVISION OF  
  
BRIAN P. WILSON  
COLORADO P.E. 0050067



PLAN: WILD LUPINE ST STA: 15+50.00 TO 25+00.00  
HORIZONTAL SCALE: 1" = 50'



PROFILE: WILD LUPINE ST STA: 15+50.00 TO 25+00.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

FILING, BLOCK, LOT	STREET	STATIONING
F2,B1,L4	WILD LUPINE ST	22+18.83
F2,B1,L5	WILD LUPINE ST	21+54.83
F2,B1,L6	WILD LUPINE ST	20+98.83
F2,B1,L7	WILD LUPINE ST	20+25.58
F2,B1,L8	WILD LUPINE ST	19+78.83
F2,B1,L9	WILD LUPINE ST	18+68.83
F2,B1,L10	WILD LUPINE ST	18+08.83
F2,B1,L11	WILD LUPINE ST	17+48.83
F2,B1,L12	WILD LUPINE ST	16+93.73
F2,B1,L13	WILD LUPINE ST	16+18.99
F2,B2,L1	SCARLET SAGE LN	10+34.50
F2,B2,L2	SCARLET SAGE LN	10+99.86
F2,B2,L3	SCARLET SAGE LN	11+57.50

**LEGEND**

- ⊙ 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

**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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**CVL CONSULTANTS**

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CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILING 2 CONSTRUCTION DRAWINGS  
WATER PLAN & PROFILE  
WILD LUPINE STREET

SCALE: AS SHOWN  
FILE NO: 8130283701

DRAWN BY: RHR  
CHECKED BY: JJ  
DATE: AUGUST 2017

SHEET NUMBER 11

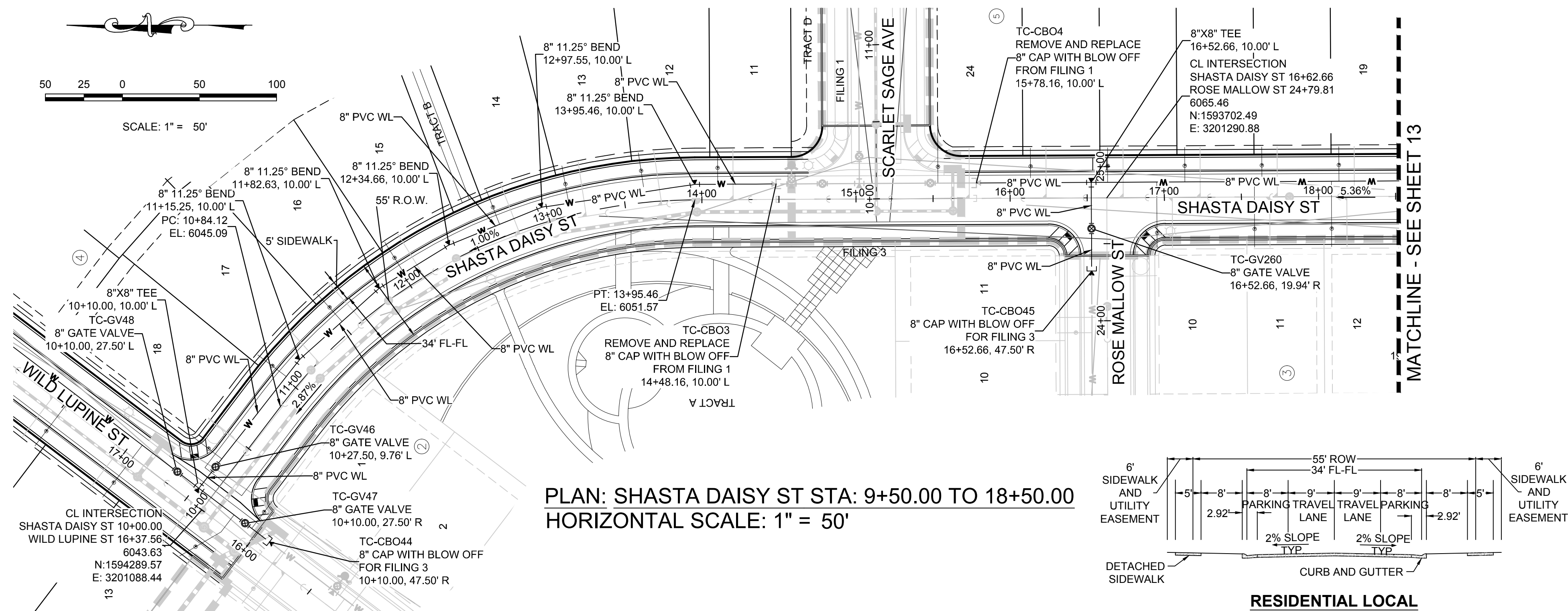
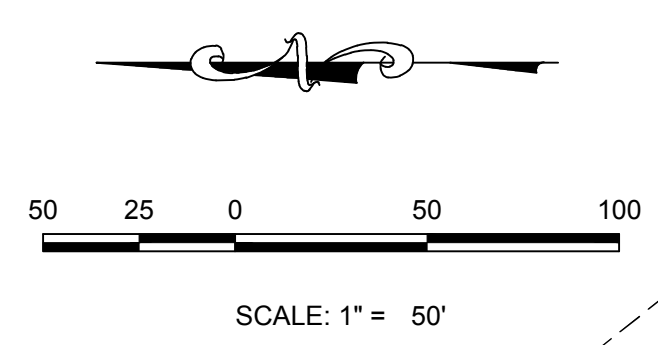
Revisions: No. Date Init. Appr. Date

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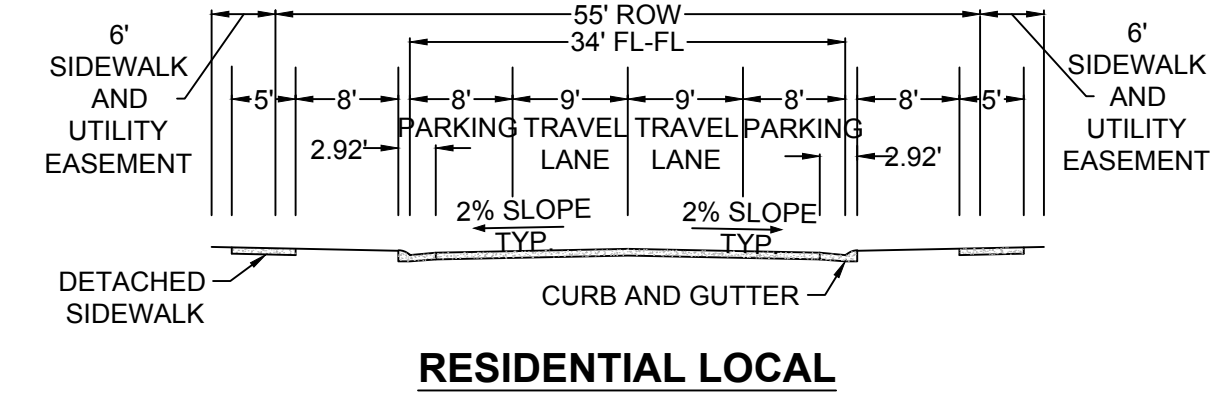
**BENCHMARK**  
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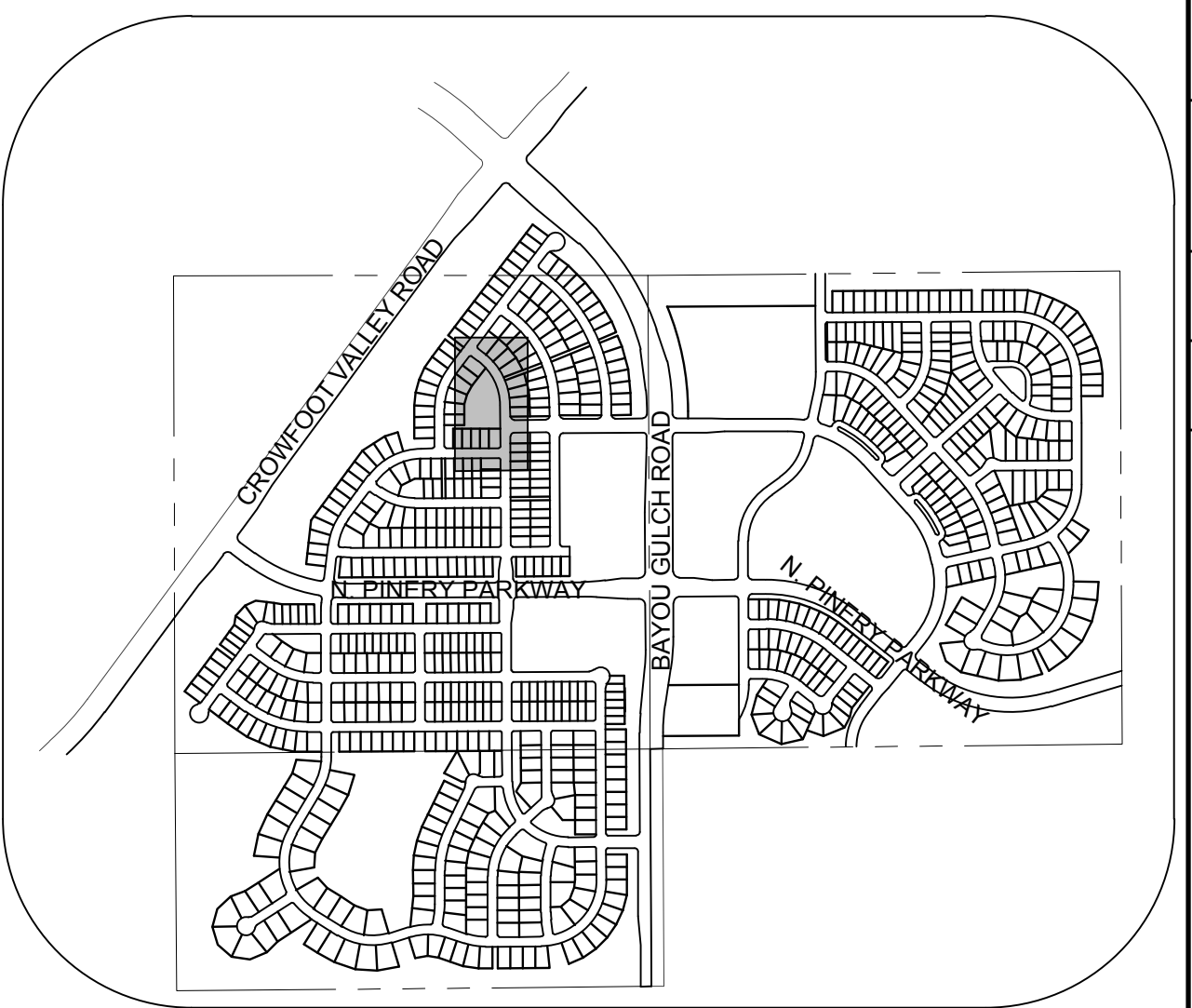


**PLAN: SHASTA DAISY ST STA: 9+50.00 TO 18+50.00**  
**HORIZONTAL SCALE: 1" = 50'**



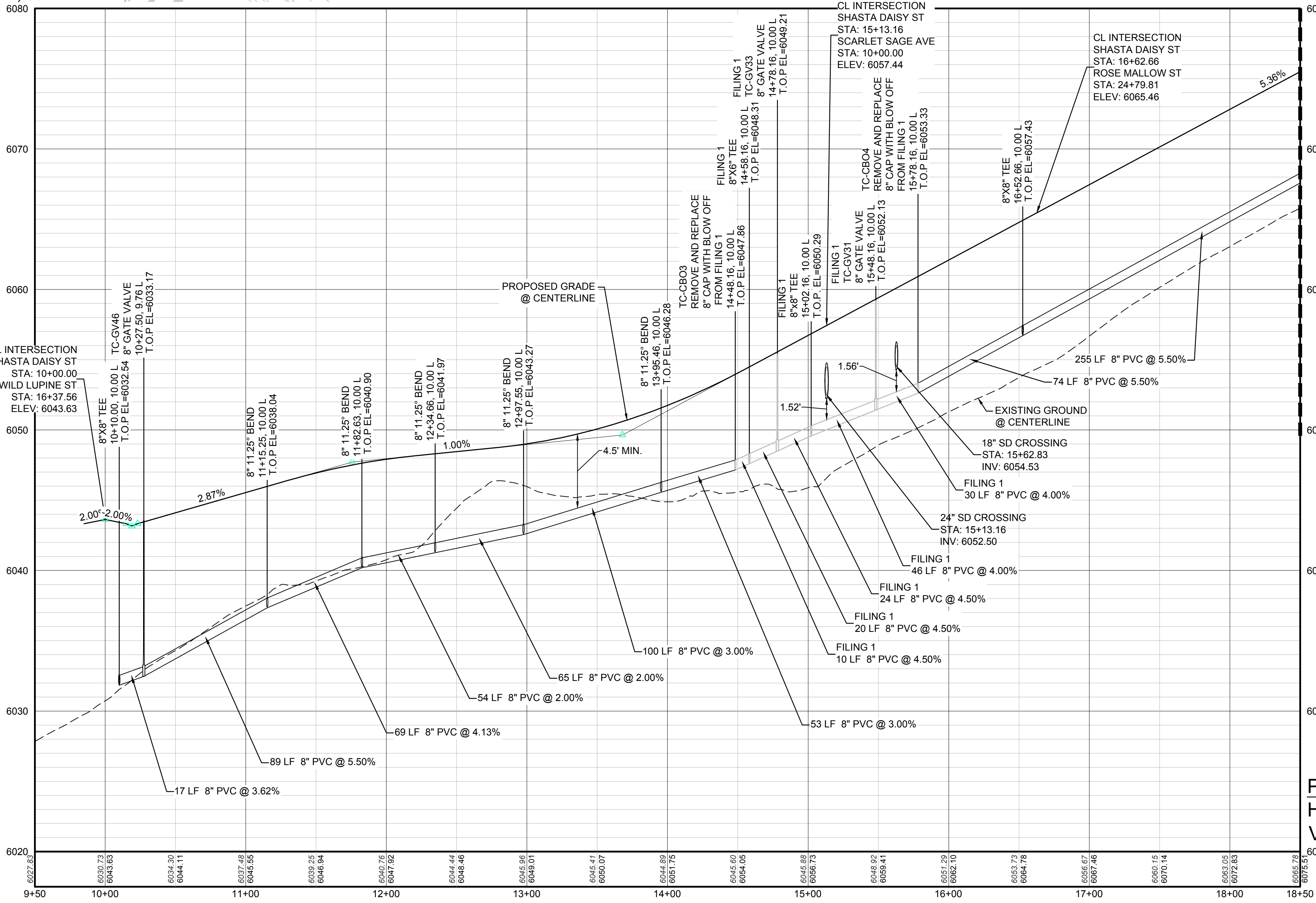
**RESIDENTIAL LOCAL**

WATER SERVICE TABLE		
FILING, BLOCK, LOT	STREET	STATIONING
F2,B4,L11	SHASTA DAISY ST	14+10.25
F2,B4,L12	SHASTA DAISY ST	13+63.19
F2,B4,L13	SHASTA DAISY ST	13+14.74
F2,B4,L14	SHASTA DAISY ST	12+68.84
F2,B4,L15	SHASTA DAISY ST	12+00.83
F2,B4,L16	SHASTA DAISY ST	11+51.19
F2,B4,L17	SHASTA DAISY ST	11+01.52
F2,B4,L18	SHASTA DAISY ST	10+34.20
F2,B5,L19	SHASTA DAISY ST	18+13.30
F2,B5,L20	SHASTA DAISY ST	17+63.30
F2,B5,L21	SHASTA DAISY ST	17+13.30
F2,B5,L22	SHASTA DAISY ST	16+63.30
F2,B5,L23	SHASTA DAISY ST	16+13.30
F2,B5,L24	SHASTA DAISY ST	15+53.16
F3,B3,L10	SHASTA DAISY ST	16+95.16
F3,B3,L11	SHASTA DAISY ST	17+58.44
F3,B3,L12	SHASTA DAISY ST	18+08.44



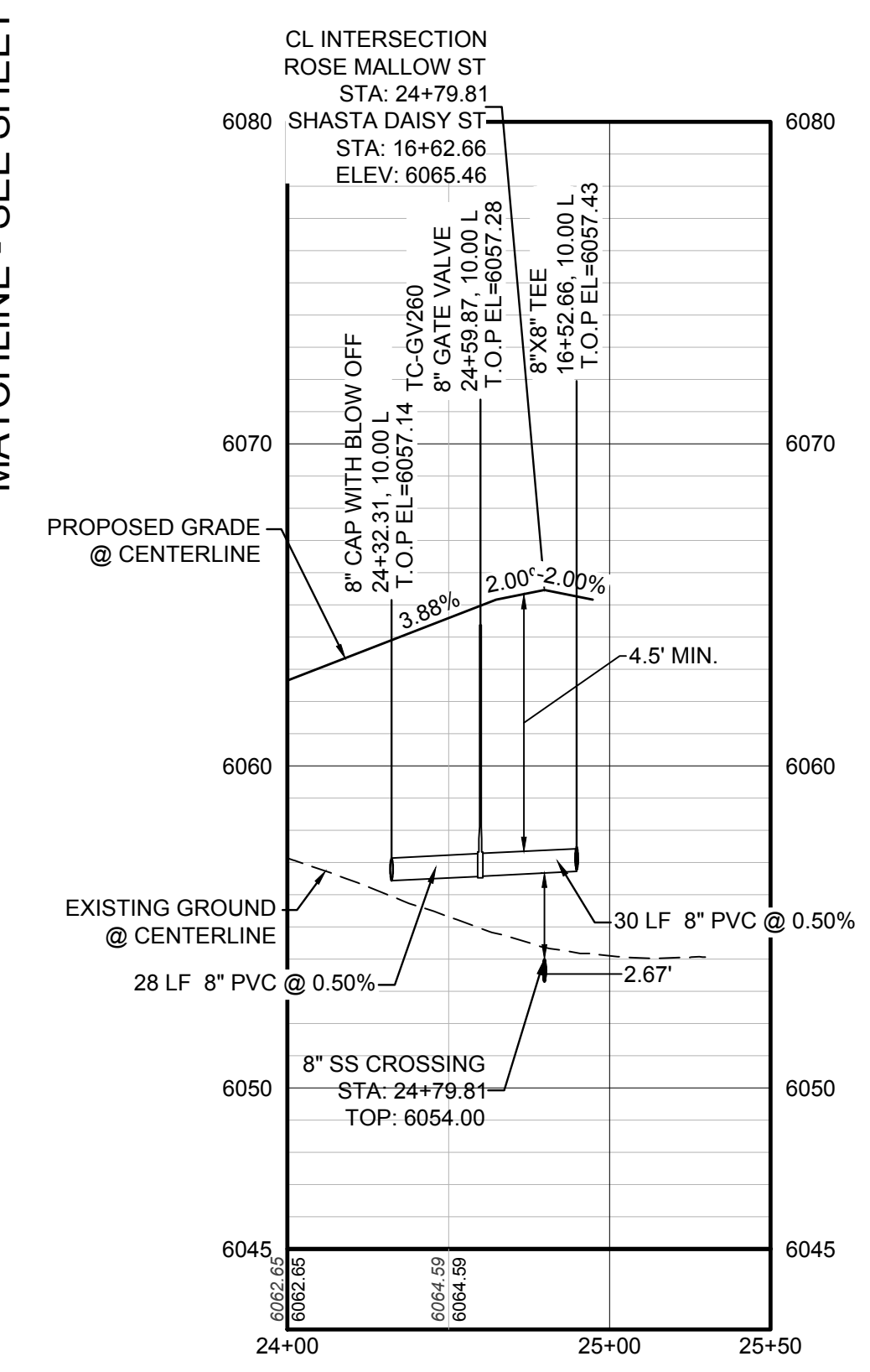
**KEYMAP**  
**N.T.S.**  
**LEGEND**

⊙	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	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
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING OPTIC LINE
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE



**PROFILE: SHASTA DAISY ST STA: 9+50.00 TO 18+50.00**  
**HORIZONTAL: 1" = 50'**  
**VERTICAL: 1" = 5'**

**ROSE MALLOW ST LATERAL**  
**SEE THIS SHEET**



**PROFILE: ROSE MALLOW ST STA: 24+00.00 TO 25+50.00**  
**HORIZONTAL: 1" = 50'**  
**VERTICAL: 1" = 5'**

**ABBREVIATIONS**

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CRR	CURB RETURN RADIUS	ROBC	REINFORCED CONCRETE BOX CULVERT
ELEVATION	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
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

CALL 811  
 TWO WORKING DAYS  
**BEFORE YOU DIG**  
 UNCC 1-800-922-1987  
 UTILITY NOTIFICATION CENTER OF COLORADO

**BENCHMARK**  
 THE DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.069032, 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

10338 E. Dry Creek Rd., Suite 6410, Englewood, CO 80150  
 Tel: (720) 482-9526 Fax: (720) 482-9548

**CVL CONSULTANTS**

HR 935 LLC  
 7353 South Alton Way, CENTENNIAL, CO 80112

**TRAILS AT CROWFOOT**  
**FILING 2 CONSTRUCTION DRAWINGS**  
 WATER PLAN & PROFILE  
 SHASTA DAISY STREET

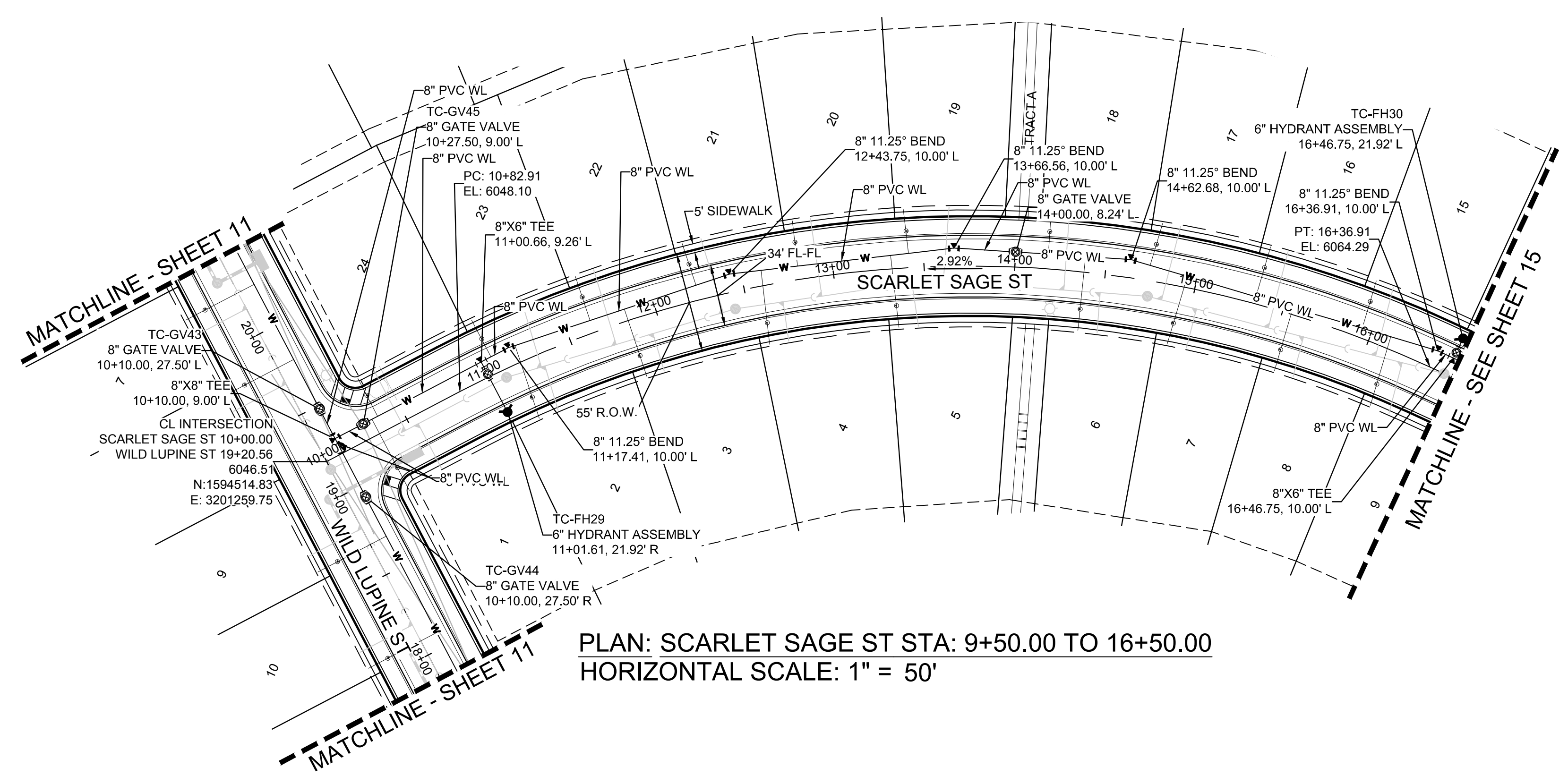
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DRAWN BY: RHR  
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 DATE: AUGUST 2017

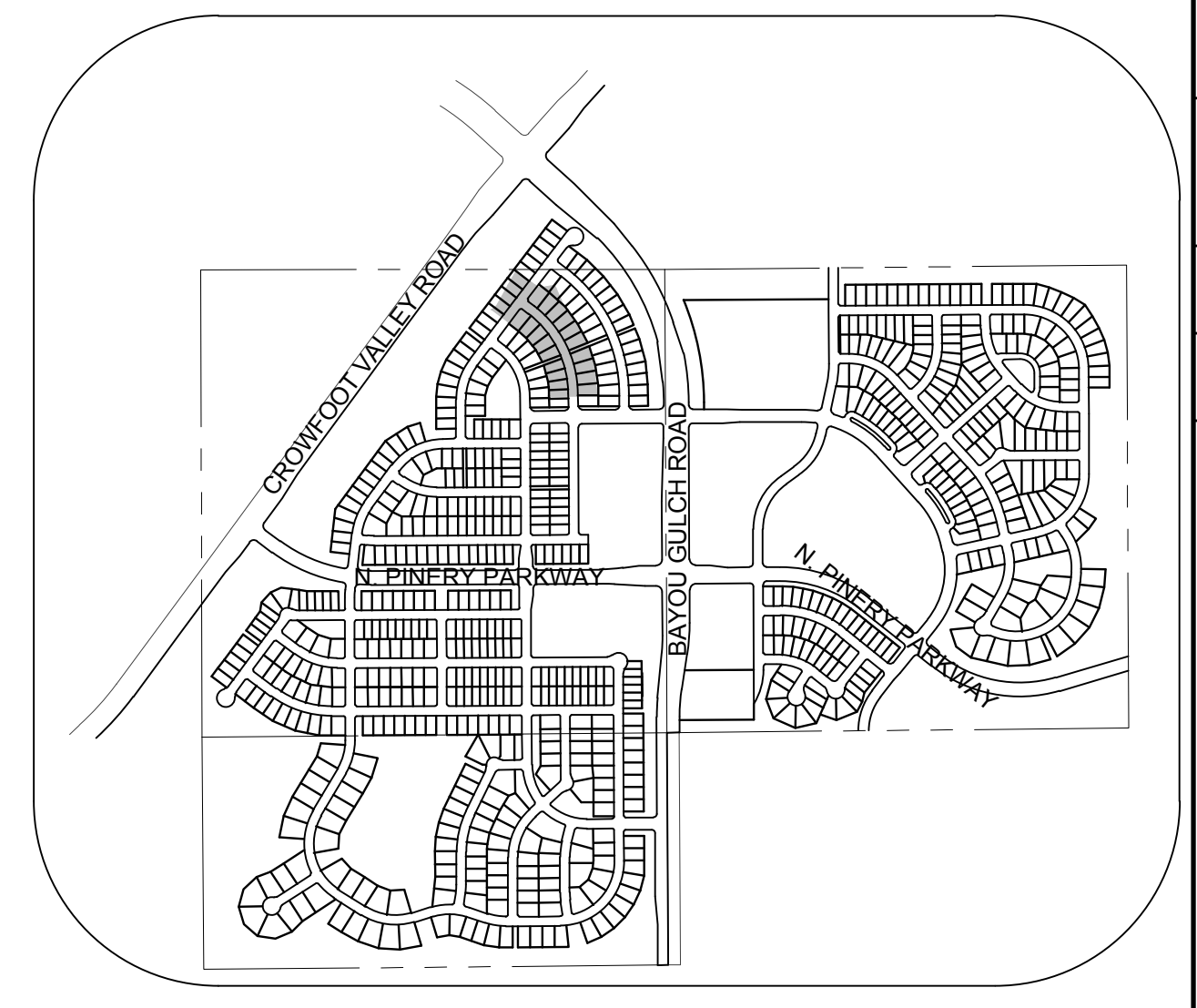
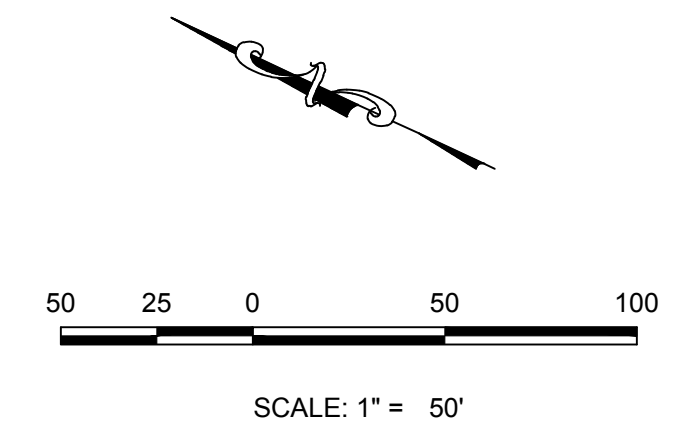
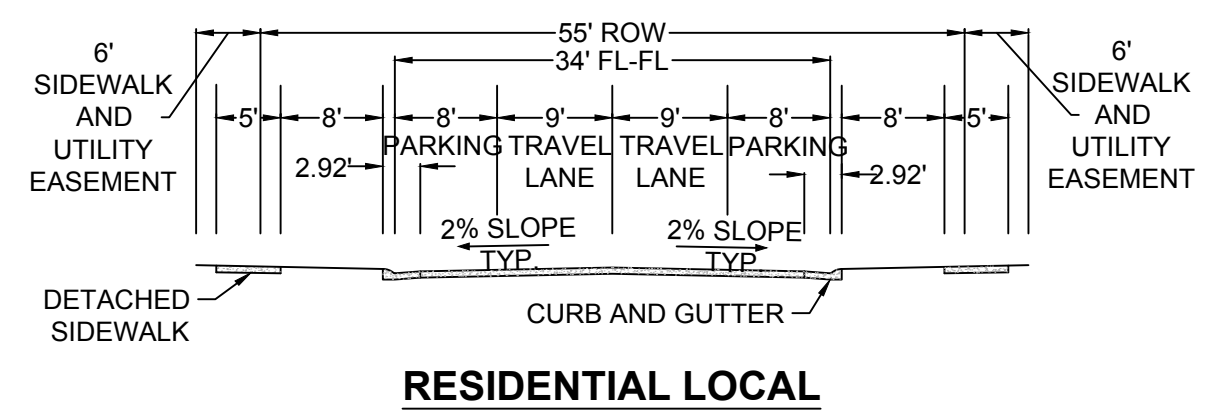
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 Date: [ ]





PLAN: SCARLET SAGE ST STA: 9+50.00 TO 16+50.00  
HORIZONTAL SCALE: 1" = 50'

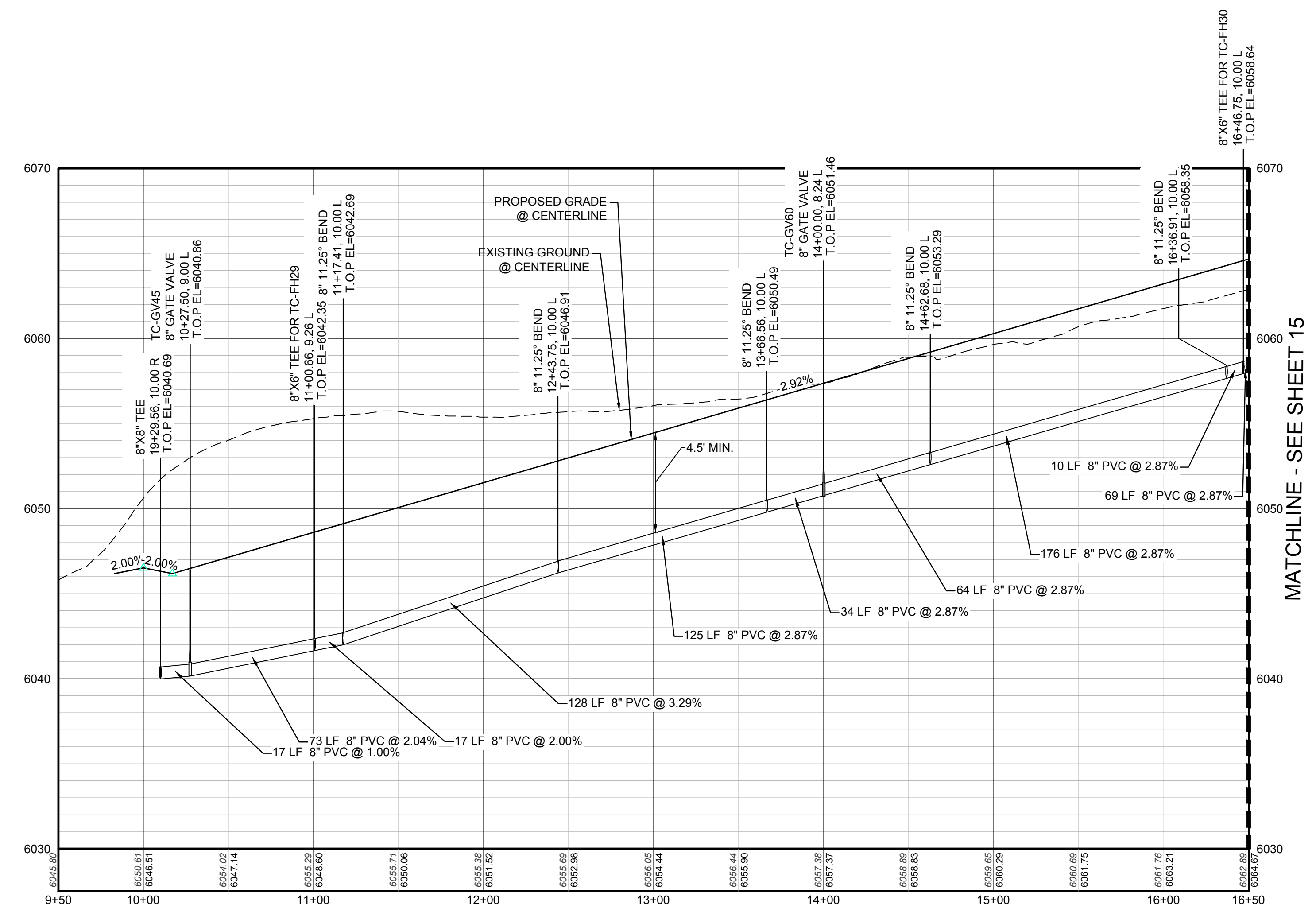


**LEGEND**

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	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
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	RBCC	REINFORCED CONCRETE BOX CULVERT
ELR	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
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



PROFILE: SCARLET SAGE ST STA: 9+50.00 TO 16+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

**WATER SERVICE TABLE**

FILING, BLOCK, LOT	STREET	STATIONING
F2,B3,L15	SCARLET SAGE ST	15+94.24
F2,B3,L16	SCARLET SAGE ST	15+33.63
F2,B3,L17	SCARLET SAGE ST	14+73.64
F2,B3,L18	SCARLET SAGE ST	14+17.96
F2,B3,L19	SCARLET SAGE ST	13+41.83
F2,B3,L20	SCARLET SAGE ST	12+81.03
F2,B3,L21	SCARLET SAGE ST	12+24.80
F2,B3,L22	SCARLET SAGE ST	11+63.97
F2,B3,L23	SCARLET SAGE ST	11+06.68
F2,B3,L24	SCARLET SAGE ST	10+36.50
F2,B4,L1	SCARLET SAGE ST	10+33.00
F2,B4,L2	SCARLET SAGE ST	11+21.12
F2,B4,L3	SCARLET SAGE ST	11+83.74
F2,B4,L4	SCARLET SAGE ST	12+61.09
F2,B4,L5	SCARLET SAGE ST	13+31.98
F2,B4,L6	SCARLET SAGE ST	14+38.25
F2,B4,L7	SCARLET SAGE ST	14+94.21
F2,B4,L8	SCARLET SAGE ST	15+54.94
F2,B4,L9	SCARLET SAGE ST	16+10.58

**BENCHMARK**  
THE DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.069032, 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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PREPARED UNDER THE SUPERVISION OF  
  
BRIAN P. WILSON  
COLORADO P.E. 0050067

N:\PROJECTS\SS\BENCH\ENGINEERING\SS\BENCH\SCARLET SAGE STREET WATER, WWT, AND PROFILE\2 SCARLET SAGE STREET WATER.DWG, HAYDEN, 2/27/2018 5:34 PM

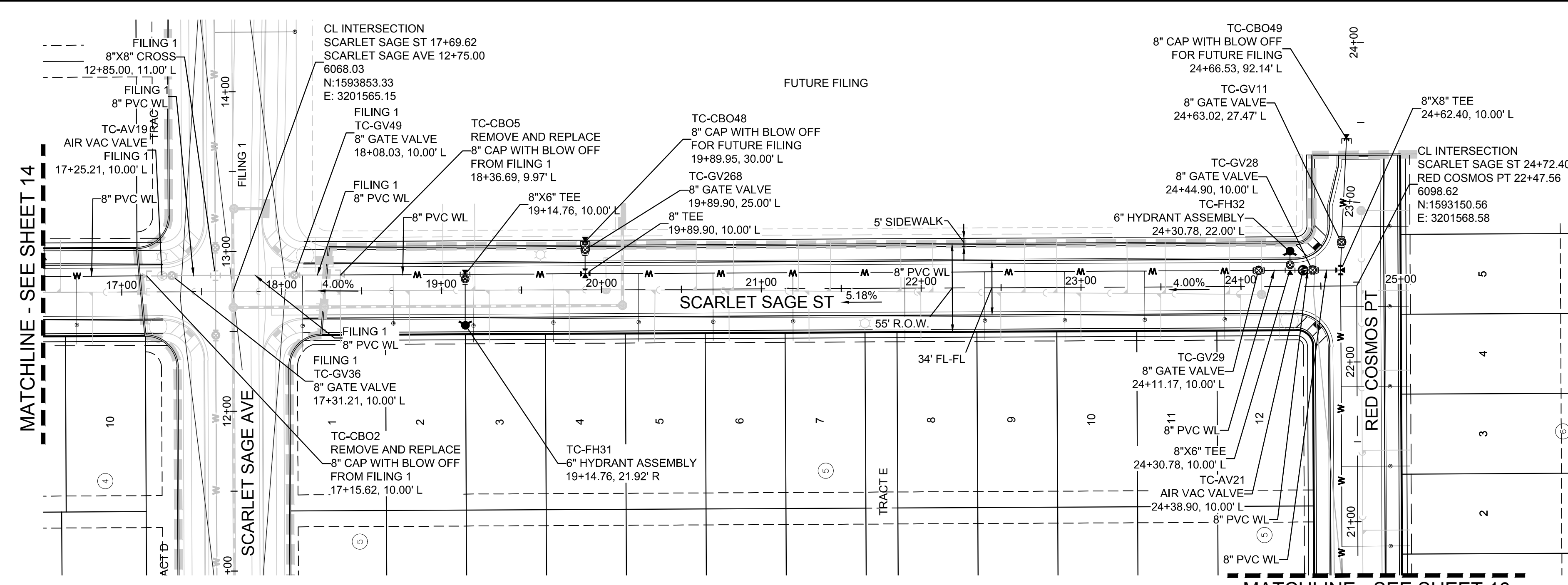
CALL 811  
TWO WORKING DAYS  
**BEFORE YOU DIG**  
UNCC 1-800-922-1987

SHEET NUMBER	14
	TRAILS AT CROWFOOT FILM 2 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE SCARLET SAGE STREET
SCALE:	AS SHOWN
FILE NO.:	8130283701
DRAWN BY:	RHR
CHECKED BY:	JU
DATE:	AUGUST 2017
NO.	
REVISIONS	
DATE	
INIT.	
APPR.	
DATE	

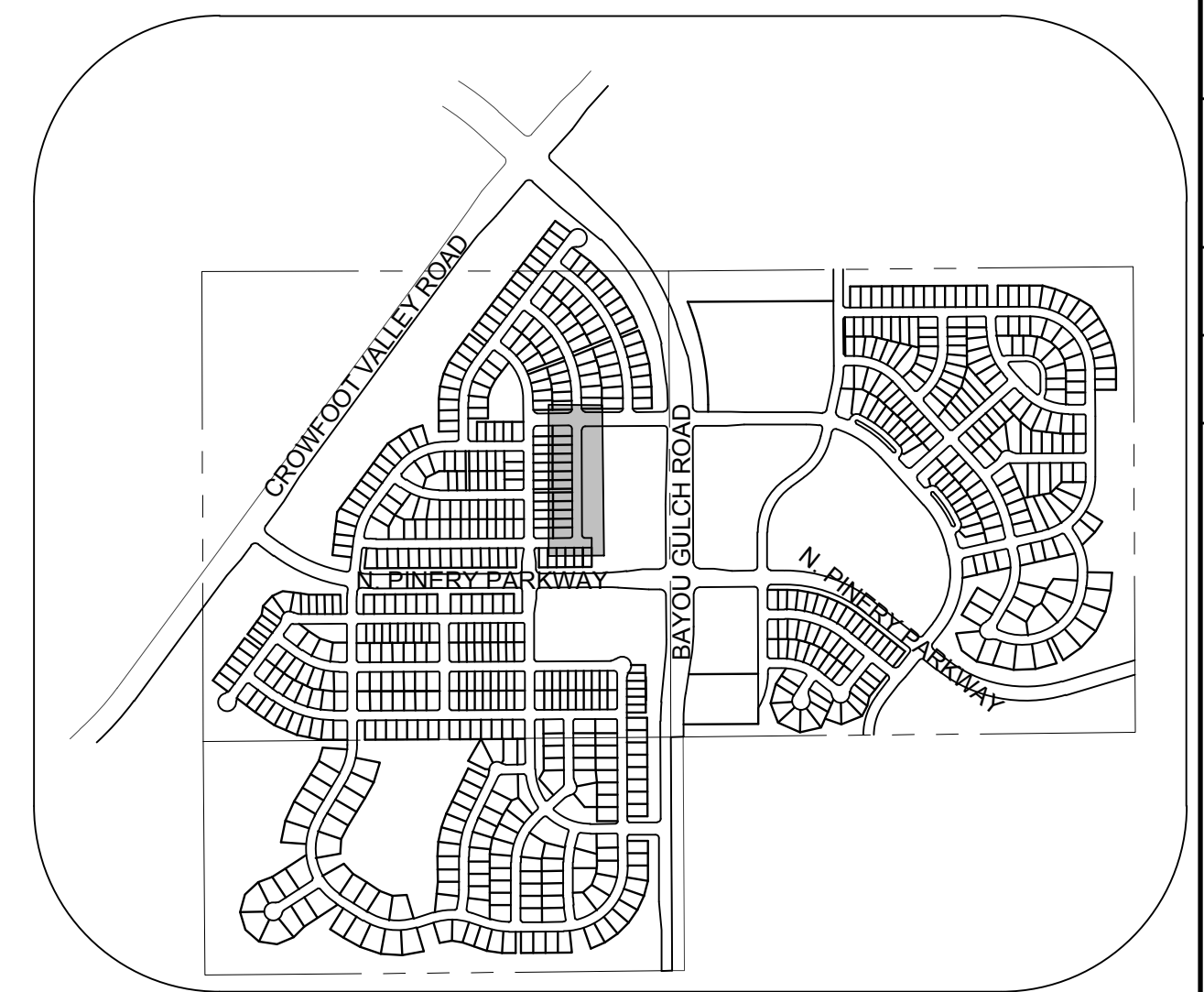
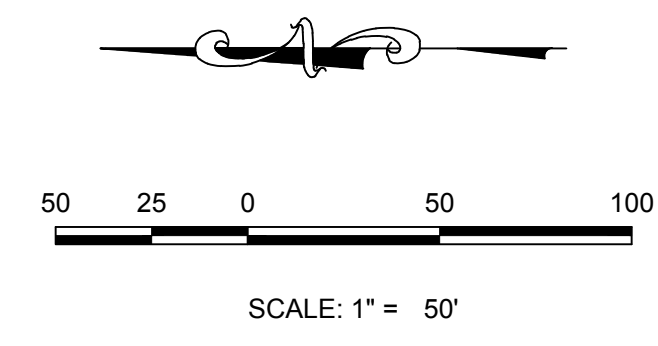
10333 E. Dry Creek Rd.  
Suite 6410  
Englewood, CO 80150  
Tel: (720) 482-9526  
Fax: (720) 482-9546

**CVL CONSULTANTS**

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112



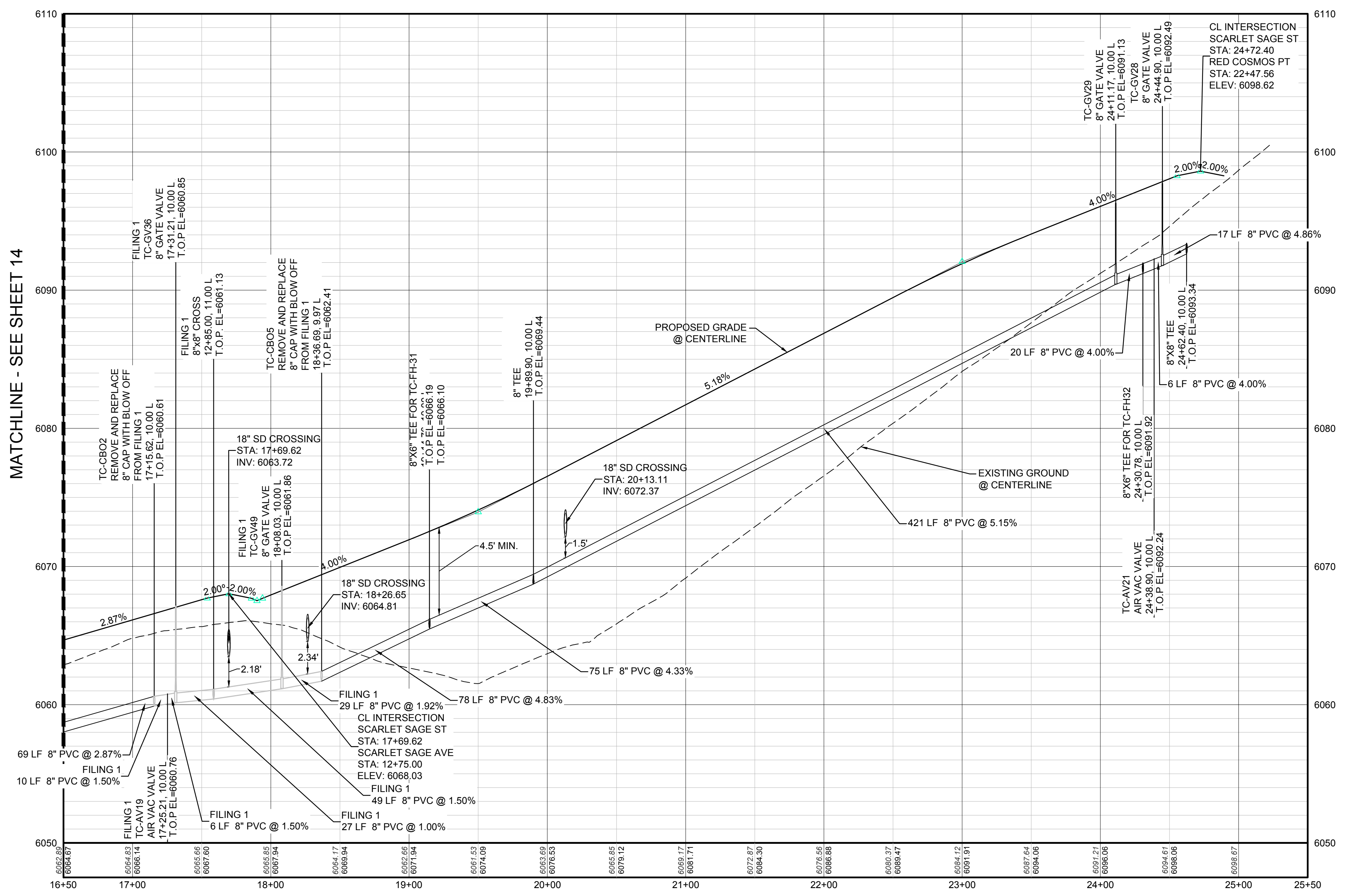
PLAN: SCARLET SAGE ST STA: 16+50.00 TO 25+50.00  
HORIZONTAL SCALE: 1" = 50'



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	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
⊗	PROPOSED STORM DRAIN INLET	---	OPTIC LINE
⊗	PROPOSED STORM DRAIN MANHOLE	---	EXISTING OVERHEAD POWER
		---	EXISTING TELEPHONE LINE

FILING, BLOCK, LOT	STREET	STATIONING
F2.B4.L10	SCARLET SAGE ST	16+71.75
F2.B5.L1	SCARLET SAGE ST	18+13.03
F2.B5.L2	SCARLET SAGE ST	18+69.76
F2.B5.L3	SCARLET SAGE ST	19+19.76
F2.B5.L4	SCARLET SAGE ST	19+69.76
F2.B5.L5	SCARLET SAGE ST	20+23.15
F2.B5.L6	SCARLET SAGE ST	20+69.76
F2.B5.L7	SCARLET SAGE ST	21+19.76
F2.B5.L8	SCARLET SAGE ST	21+89.76
F2.B5.L9	SCARLET SAGE ST	22+39.75
F2.B5.L10	SCARLET SAGE ST	22+89.76
F2.B5.L11	SCARLET SAGE ST	23+39.76
F2.B5.L12	SCARLET SAGE ST	23+89.76



PROFILE: SCARLET SAGE ST STA: 16+50.00 TO 25+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

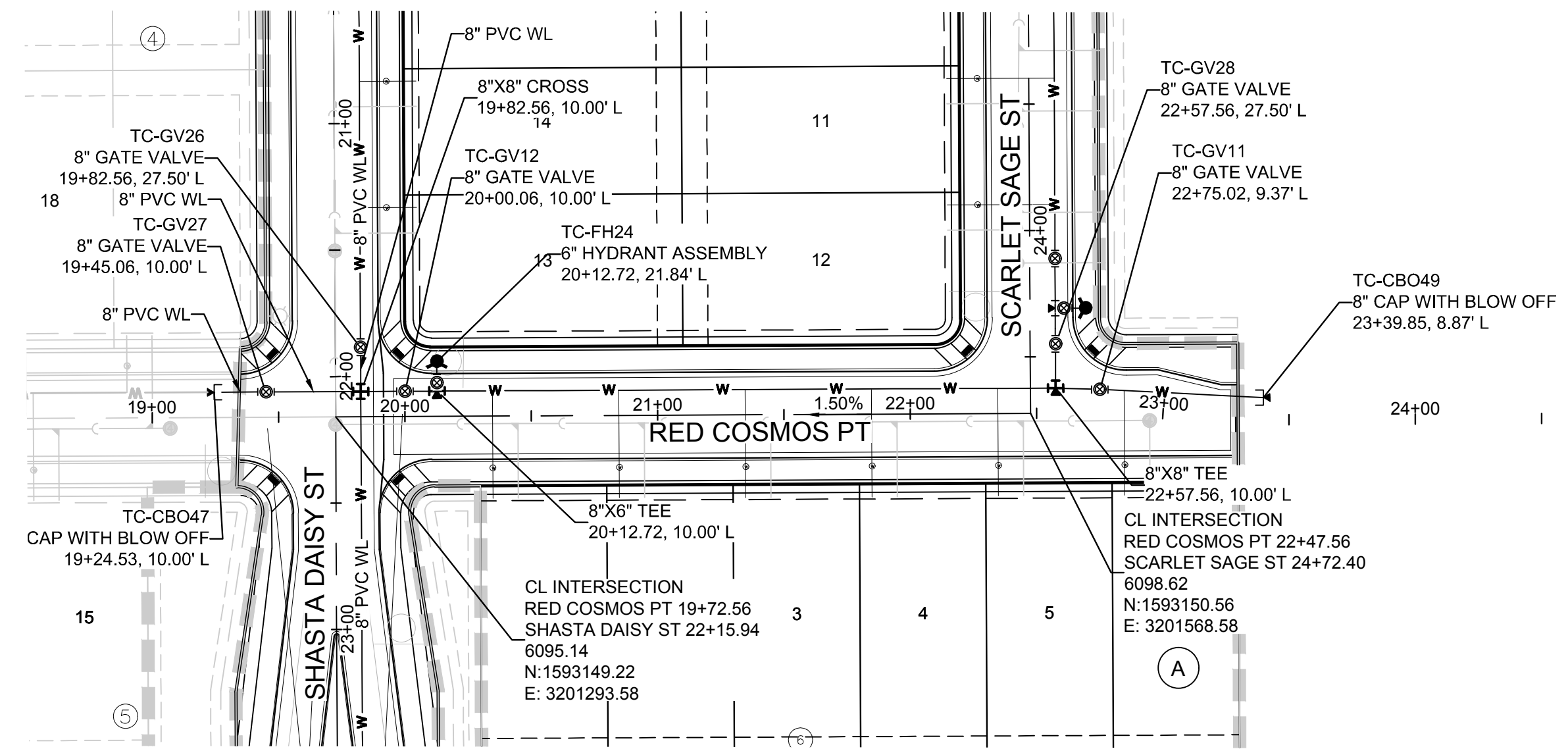
**BENCHMARK**  
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33 TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION 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.

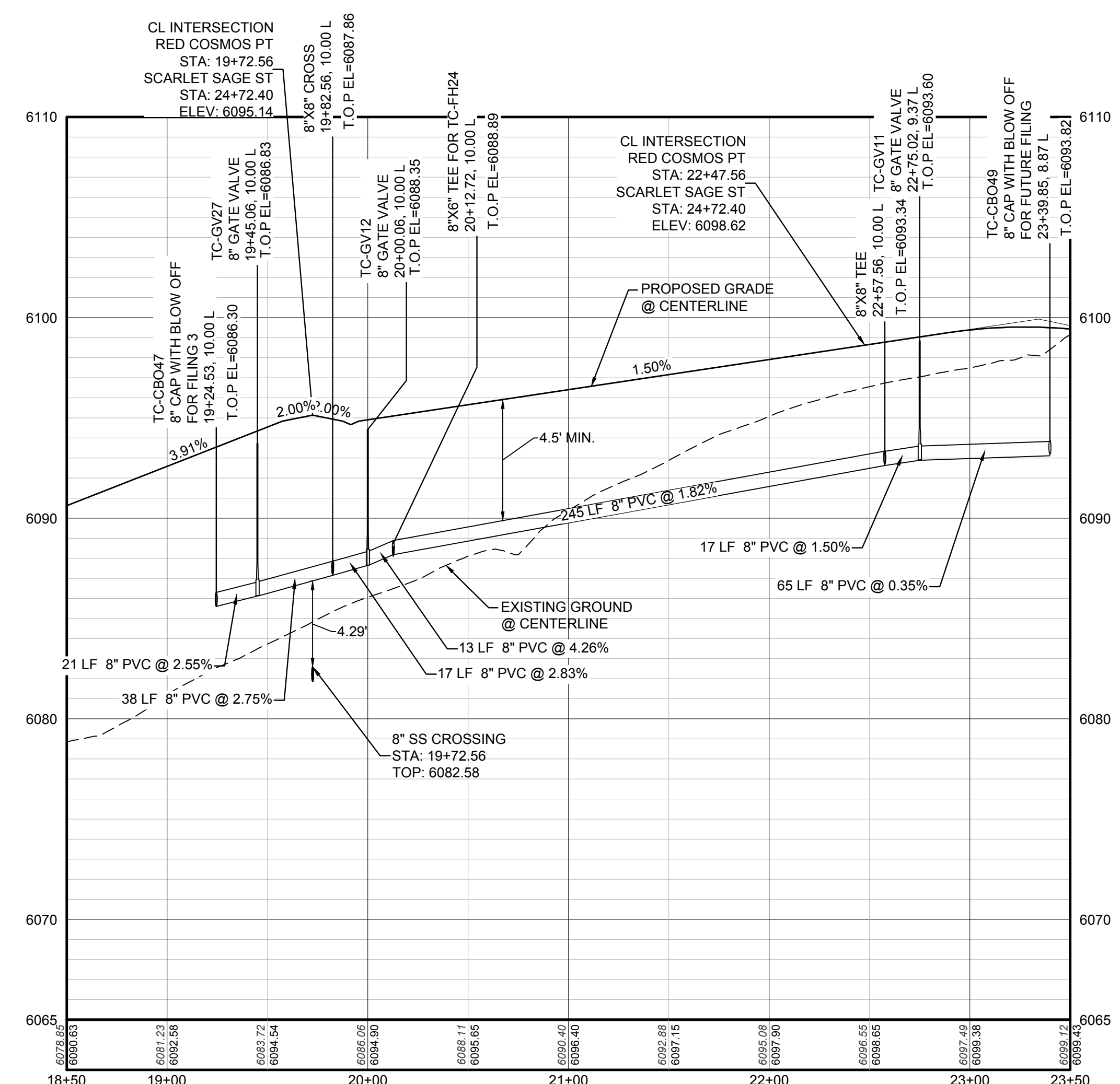
PREPARED UNDER THE SUPERVISION OF  
  
BRIAN P. WILSON  
COLORADO P.E. 0050067

10339 E. Dry Creek Rd. Suite 6410 Englewood, CO 80110 Tel: (720) 482-9256 Fax: (720) 482-9546	Revisions	Date	Appr.	Date
<b>CVL</b> CONSULTANTS				
HR 935 LLC 7353 South Alton Way CENTENNIAL, CO 80112				
TRAILS AT CROWFOOT FILM 2 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE SCARLET SAGE STREET				
DRAWN BY: RHR	SCALE: AS SHOWN	CHECKED BY: JU	FILE NO: 8130283701	
		DATE: AUGUST 2017		
SHEET NUMBER	15			

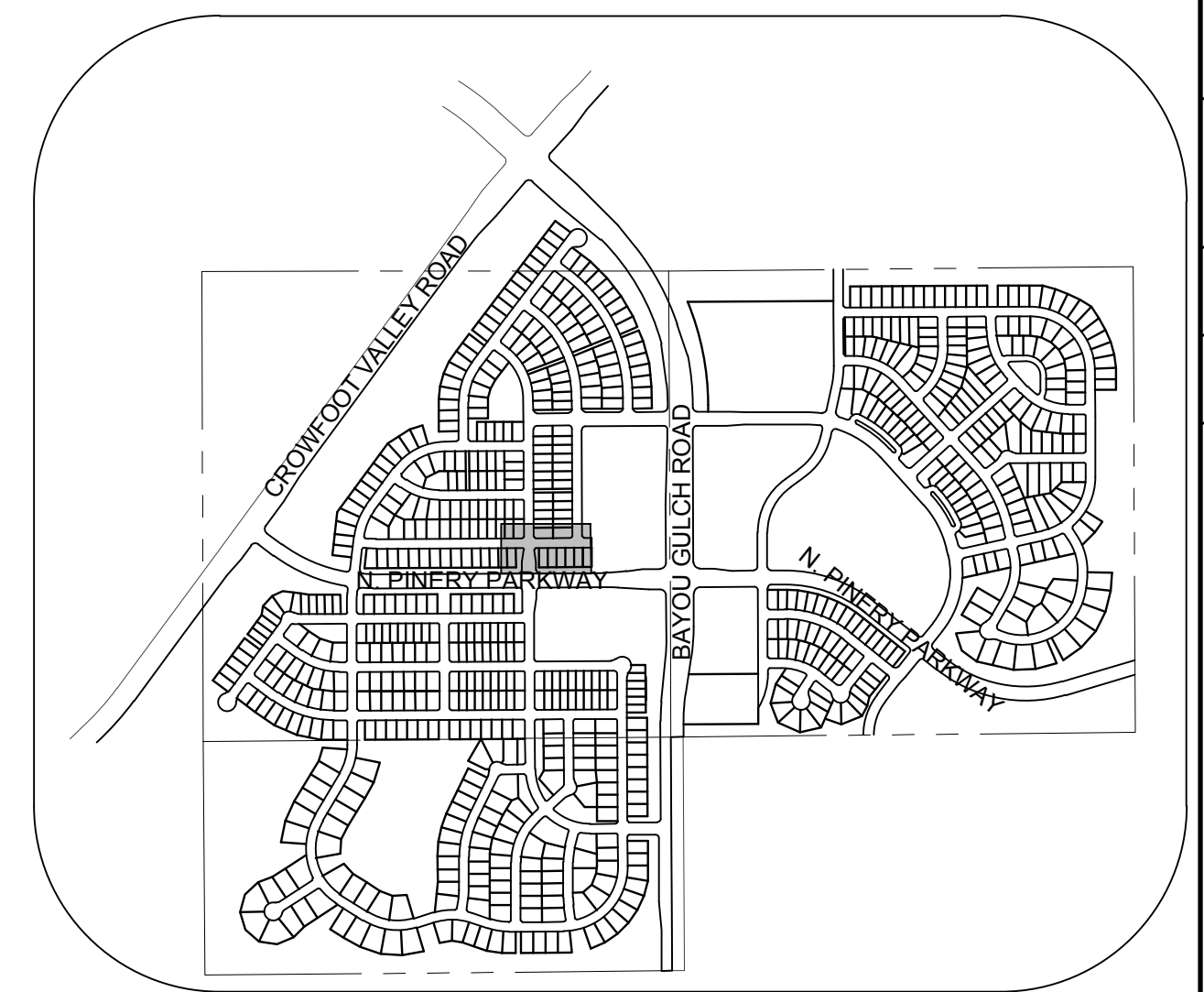
CALL 811  
TWO WORKING DAYS  
BEFORE YOU DIG  
UNCC 1-800-922-1987



PLAN: RED COSMOS PT STA: 18+50.00 TO 23+50.00  
HORIZONTAL SCALE: 1" = 50'

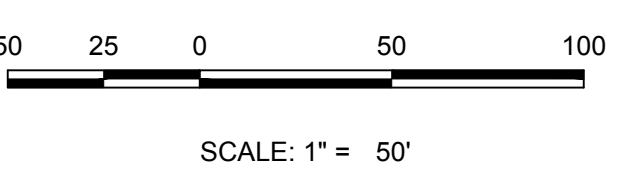


PROFILE: RED COSMOS PT STA: 18+50.00 TO 23+50.00  
HORIZONTAL: 1" = 50'  
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KEYMAP  
N.T.S.  
LEGEND

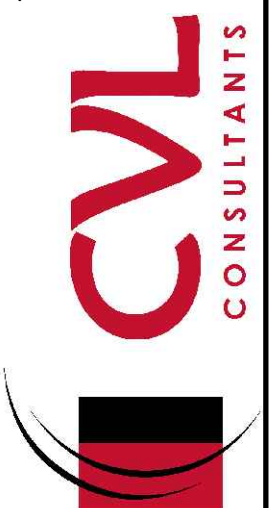
②	BLOCK NUMBER	△	PROPOSED RANGE POINT
(A)	LOT TYPE	- - - -	CENTERLINE
6	LOT NUMBER	— — — —	RIGHT-OF-WAY
⊗	PROPOSED BUTTERFLY VALVE	— — — —	PROPERTY LINE
⌈	PROPOSED CAP WITH END OF LINE BLOWOFF	— — — —	EDGE OF PAVEMENT
⌞	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊕	PROPOSED VALVE	1.0%	PROPOSED SLOPE & 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	— 8"V —	PROPOSED WATER LINE
⊕	PROPOSED SIDEWALK RAMP	— — — —	PROPOSED WATER LATERAL W/ METER
10.00	EXISTING ELEVATION	— — — —	SECTION LINE
10.00	PROPOSED DESIGN ELEVATION	— FO —	FILING BOUNDARY
⊖	PROPOSED STORM DRAIN INLET	— OH —	EXISTING FIBER OPTIC LINE
⊖	PROPOSED STORM DRAIN MANHOLE	— TEL —	EXISTING OVERHEAD POWER
④	⑤	⑥	EXISTING TELEPHONE LINE



FILING, BLOCK, LOT	STREET	STATIONING
F2,B6,L1	RED COSMOS PT	20+34.70
F2,B6,L2	RED COSMOS PT	20+84.70
F2,B6,L3	RED COSMOS PT	21+34.70
F2,B6,L4	RED COSMOS PT	21+84.70
F2,B6,L5	RED COSMOS PT	22+34.70
F2,B6,L6	RED COSMOS PT	22+84.70

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
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INV	INVERT	WL	WATER LINE
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LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION

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 3 CONSTRUCTION DRAWINGS  
WATER PLAN & PROFILE  
RED COSMOS POINT

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

SHEET NUMBER  
**16**

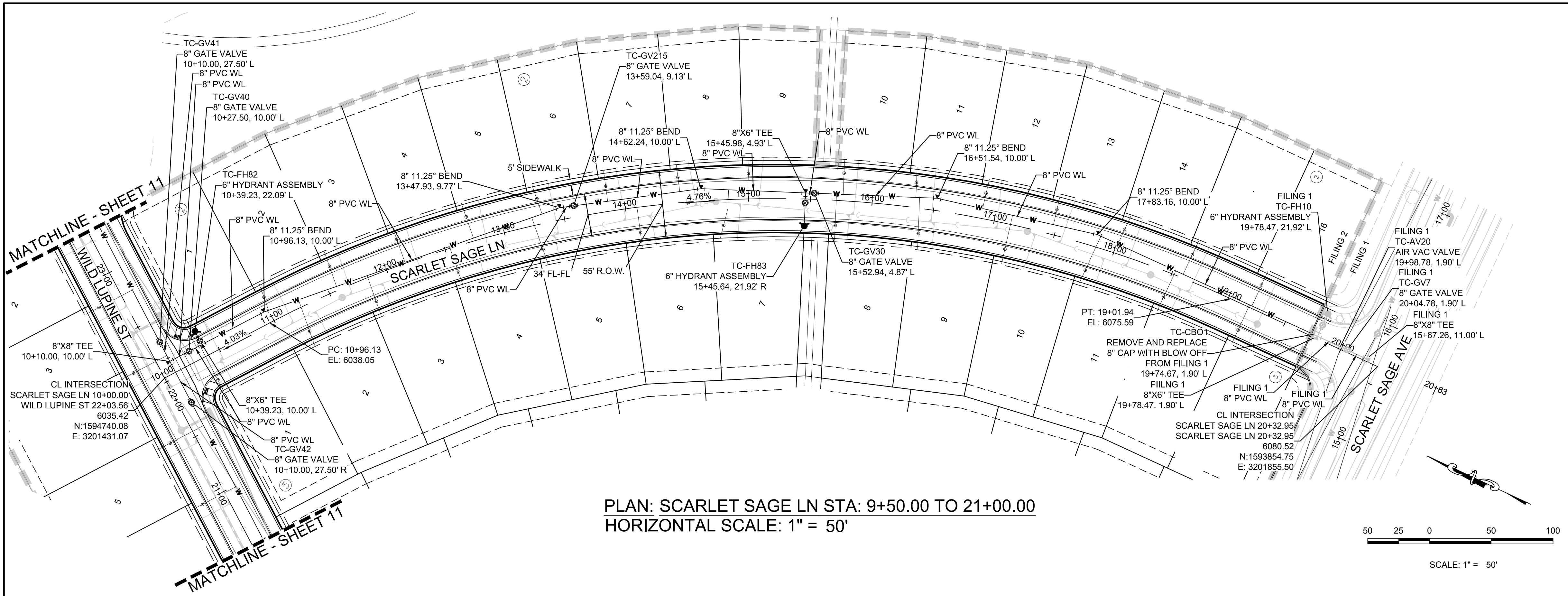
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CALL 811  
TWO WORKING DAYS  
BEFORE YOU DIG  
UNCC 1-800-922-1987  
UTILITY NOTIFICATION CENTER OF COLORADO

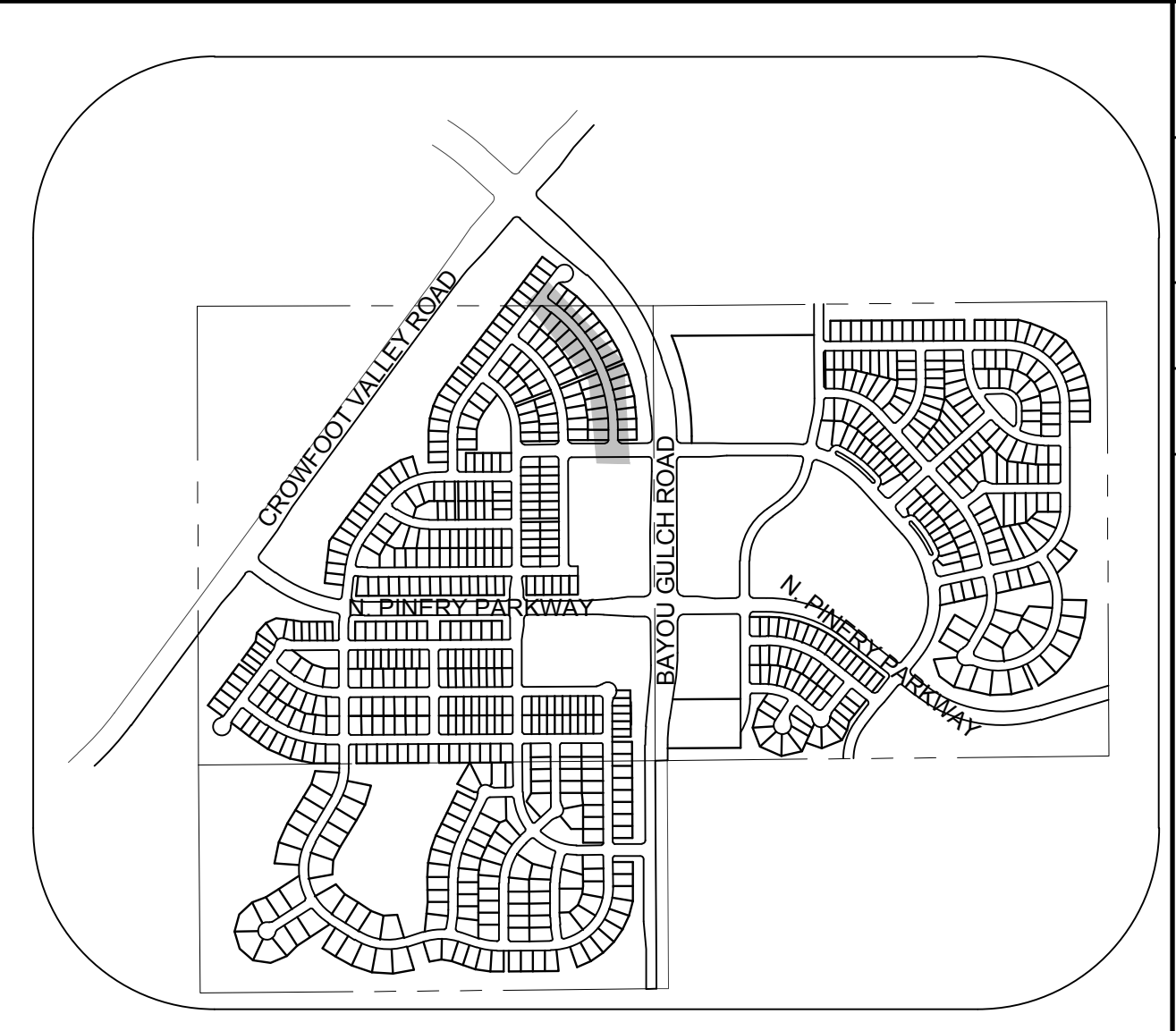
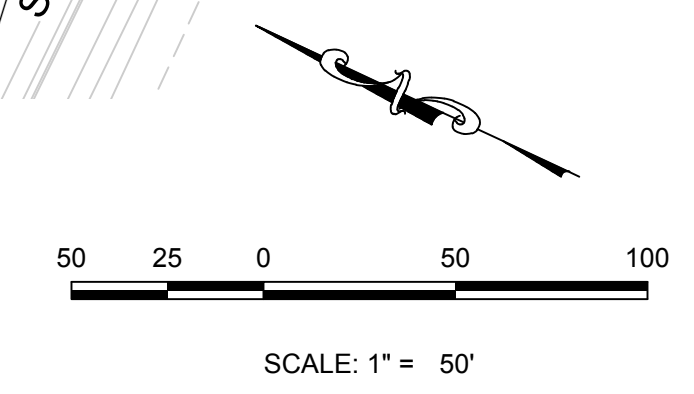
**BENCHMARK**  
THE BENCH MARK IS A COUNTY CONTROL POINT KNOWN AS 1.069032, BEING A 3-1/4" ALUMINUM CAP BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

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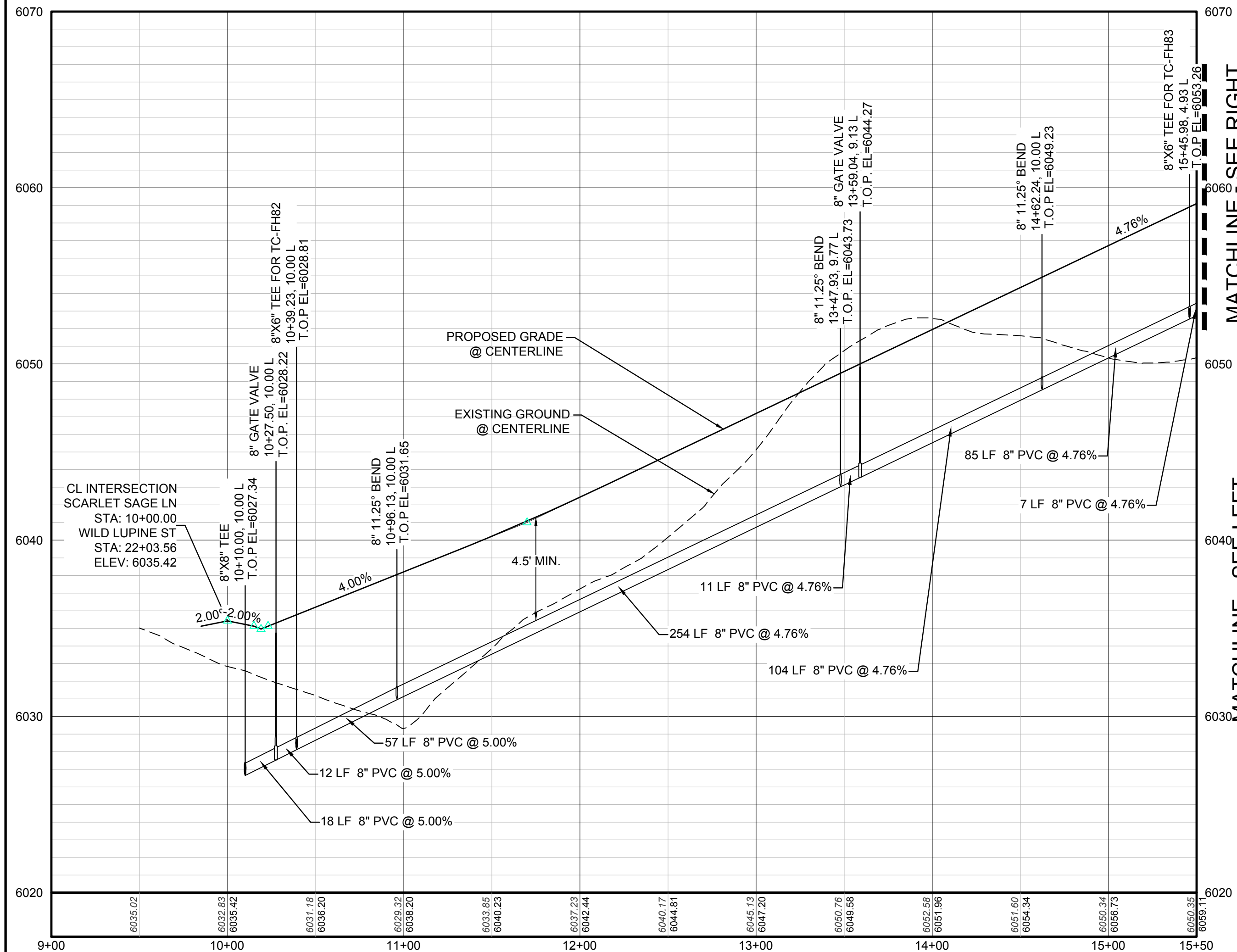


PLAN: SCARLET SAGE LN STA: 9+50.00 TO 21+00.00  
HORIZONTAL SCALE: 1" = 50'

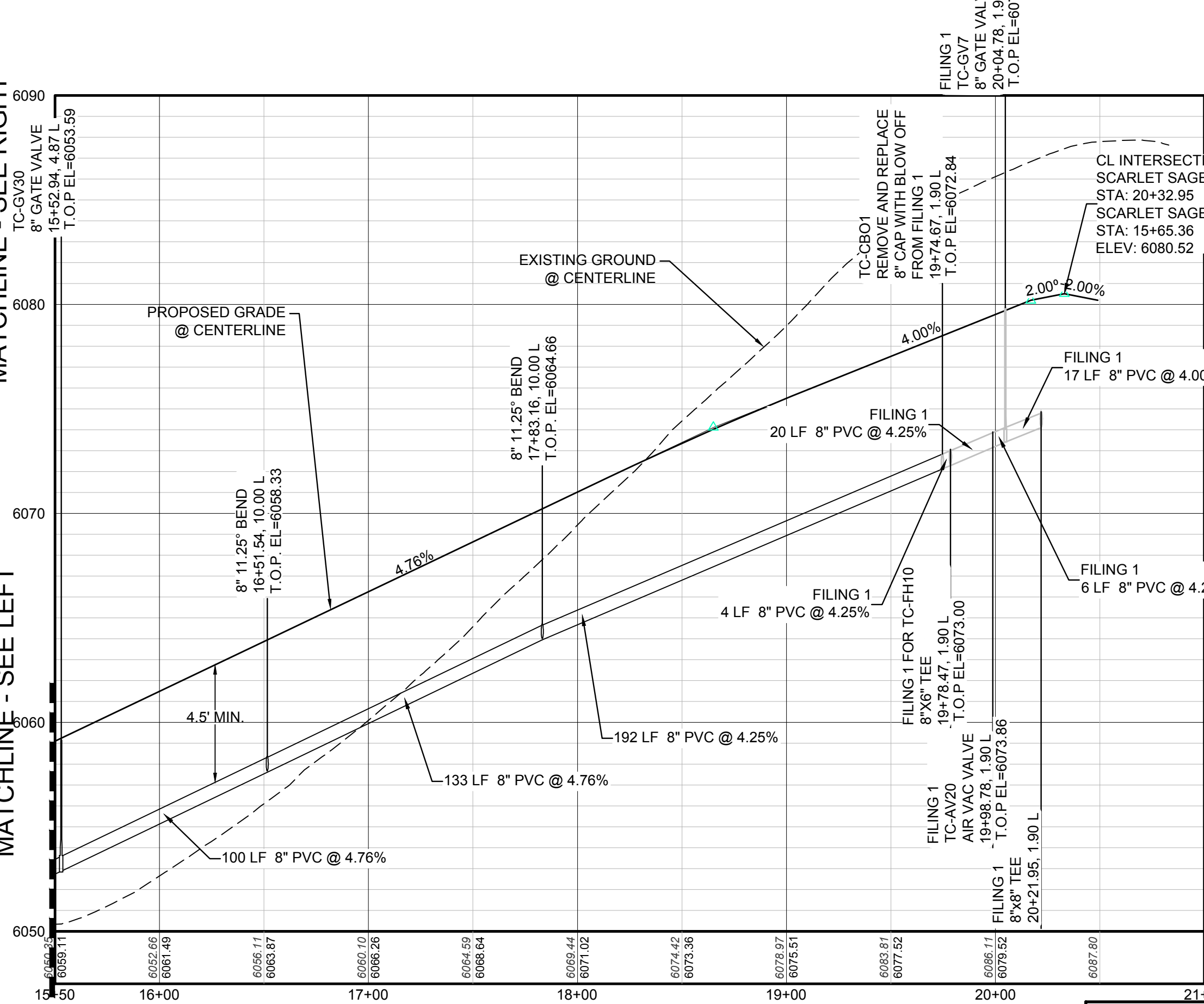


KEYMAP  
N.T.S.  
LEGEND

	BLOCK NUMBER		PROPOSED RANGE POINT
	LOT TYPE		CENTERLINE
	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		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
	EXISTING ELEVATION		FILING BOUNDARY
	PROPOSED DESIGN ELEVATION		EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET		EXISTING OVERHEAD POWER
	PROPOSED STORM DRAIN MANHOLE		EXISTING TELEPHONE LINE



PROFILE: SCARLET SAGE LN STA: 9+00.00 TO 15+50.00  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'



PROFILE: SCARLET SAGE LN STA: 15+50.00 TO 21+00.00  
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
BVP	BEGIN VERTICAL PROFILE	PVI	PT. OF VERTICAL INTERSECTION
CBO	CAP WITH BLOW OFF	PVT	POINT OF VERTICAL TANGENT
CRR	CURB RETURN RADIUS	ROBC	REINFORCED CONCRETE BOX CULVERT
ELEVATION	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
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

NOTES:  
1. SEE SHEET 3 FOR F2, B2, L1-16 & F2, B3, L1-13 WATER SERVICE DETAILS.

CALL 811  
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UNCC 1-800-922-1987

**BENCHMARK**  
THE DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.069032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 9 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

NO.	REVISIONS	DATE	INIT.	APPR.	DATE

10338 E. Dry Creek Rd.  
Suite 6410  
Englewood, CO 80150  
Tel: (720) 482-9526  
Fax: (720) 482-9548

**CVL**  
CONSULTANTS

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

SCALE: AS SHOWN  
FILE NO: 8130283701  
DRAWN BY: RHR  
CHECKED BY: JU  
DATE: AUGUST 2017

SHEET NUMBER  
**17**

TRAILS AT CROWFOOT  
FILM 2 CONSTRUCTION DRAWINGS  
WATER PLAN & PROFILE  
SCARLET SAGE LANE







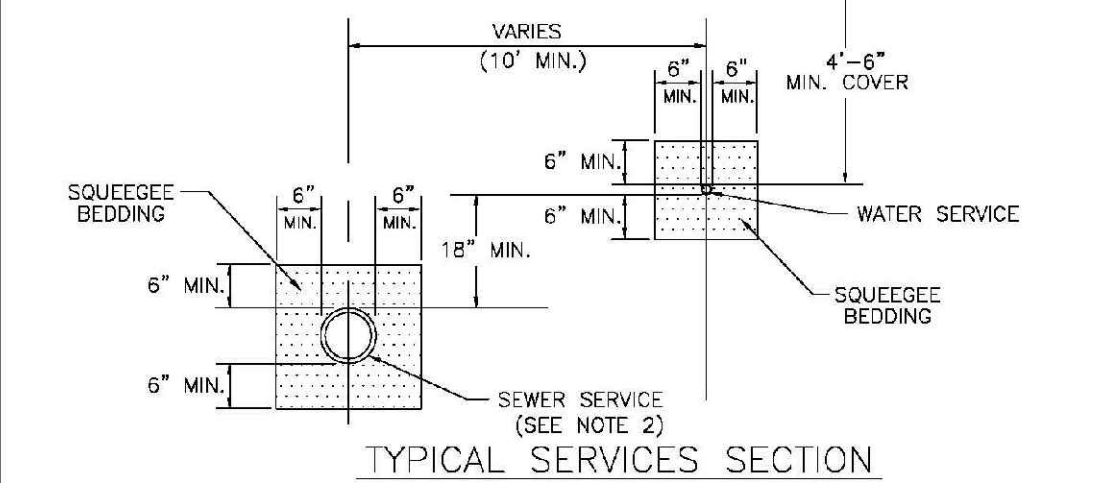
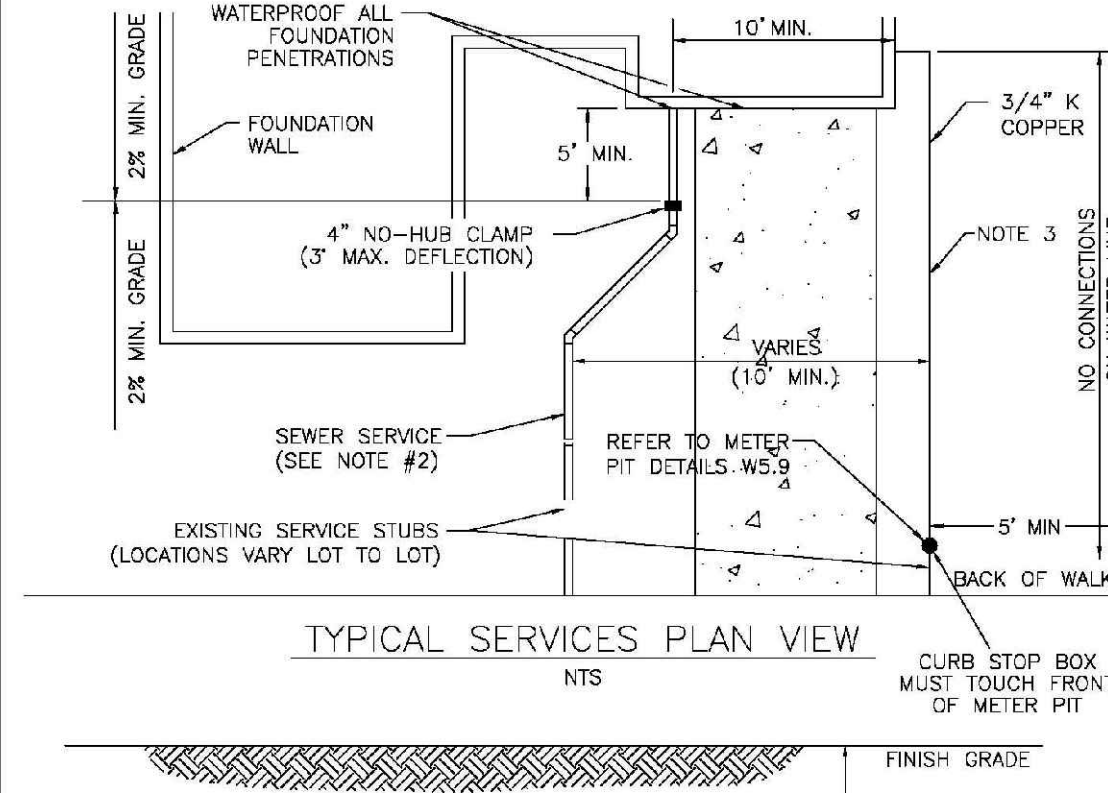
- INSPECTION POLICY:**
1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
  2. SERVICE INSPECTIONS WILL OCCUR BETWEEN 1:00 P.M. AND 3:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
  3. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR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

- INSTALLATION NOTES:**
- WATER**
1. ACCEPTABLE PIPE MATERIALS SHALL BE K-COPPER TUBING, (3/4" MIN.)
  2. APPROVED BEDDING TO BE SQUEEGEE.
  3. ONLY ONE COUPLING WILL BE ALLOWED BETWEEN THE 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 PWS BEFORE 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 PWS 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  
"W" FOR WATER SERVICES
  13. NO SPLICES OR FLARED COUPLINGS ALLOWED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWS PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.

<b>PARKER WATER &amp; SANITATION DISTRICT</b>	
<b>DISTRICT POLICIES &amp; INSTALLATION NOTES FOR WATER SERVICES</b>	
SCALE: NONE	DATE: 2/96
APPROVED: 1/04	1/16
PVR	10/16
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W1.1



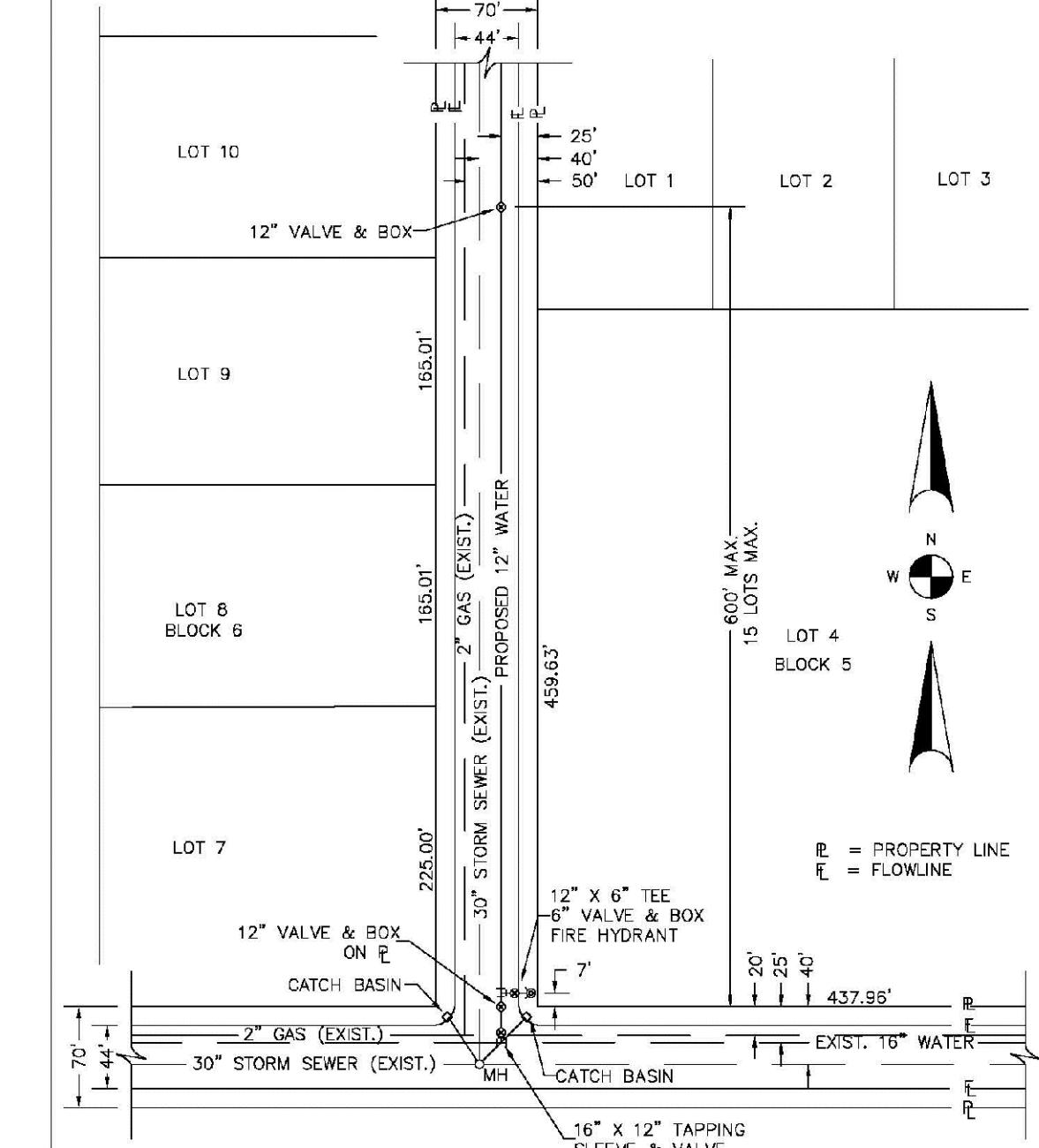
**NOTE:**

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.

<b>PARKER WATER &amp; SANITATION DISTRICT</b>	
<b>TYPICAL WATER SERVICES</b>	
SCALE: NONE	DATE: 2/96
APPROVED: 1/04 10/16	09/06 12/07
PVR	1/16
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W1.2



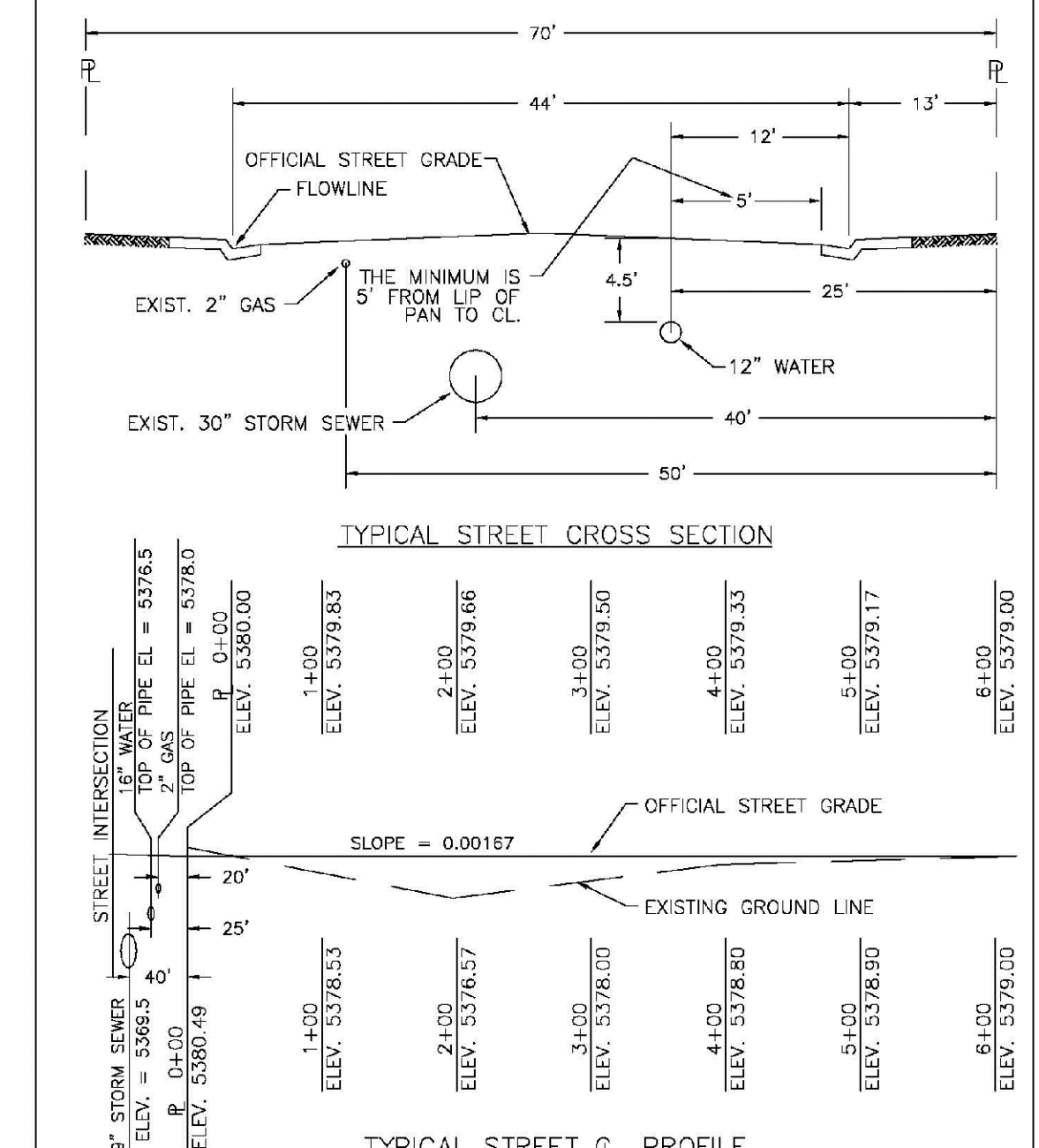
**NOTES:**

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

<b>PARKER WATER &amp; SANITATION DISTRICT</b>	
<b>WATER DISTRIBUTION SYSTEM TYPICAL PLAN</b>	
SCALE: NONE	DATE: 2/96
APPROVED: 1/16	10/16
PVR	
DIRECTOR OF ENGINEERING	

2016 REVISION

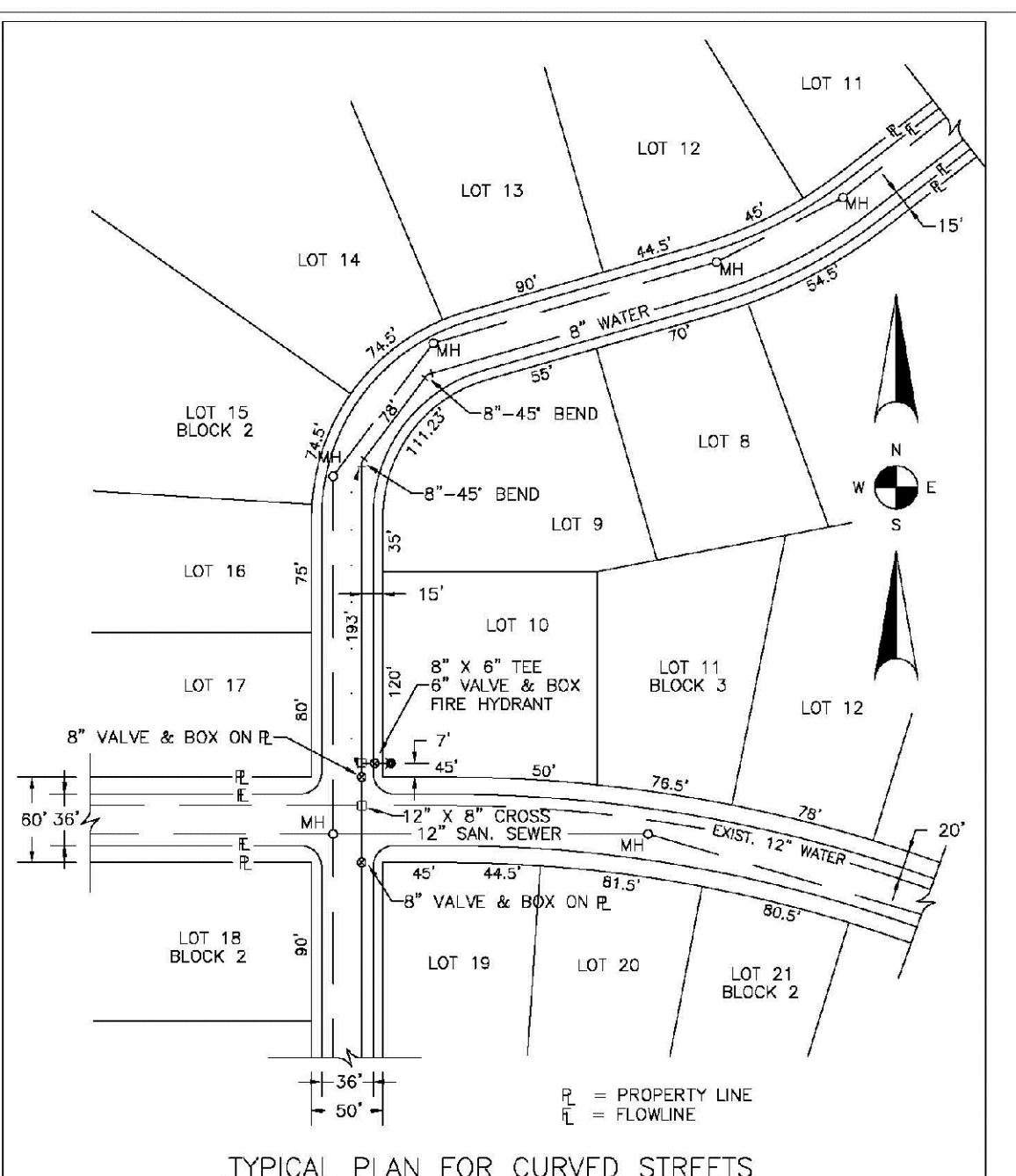
SHEET W2.1



<b>PARKER WATER &amp; SANITATION DISTRICT</b>	
<b>TYPICAL STREET CROSS SECTION</b>	
SCALE: NONE	DATE: 2/96
APPROVED: 1/16	10/16
PVR	
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W2.2

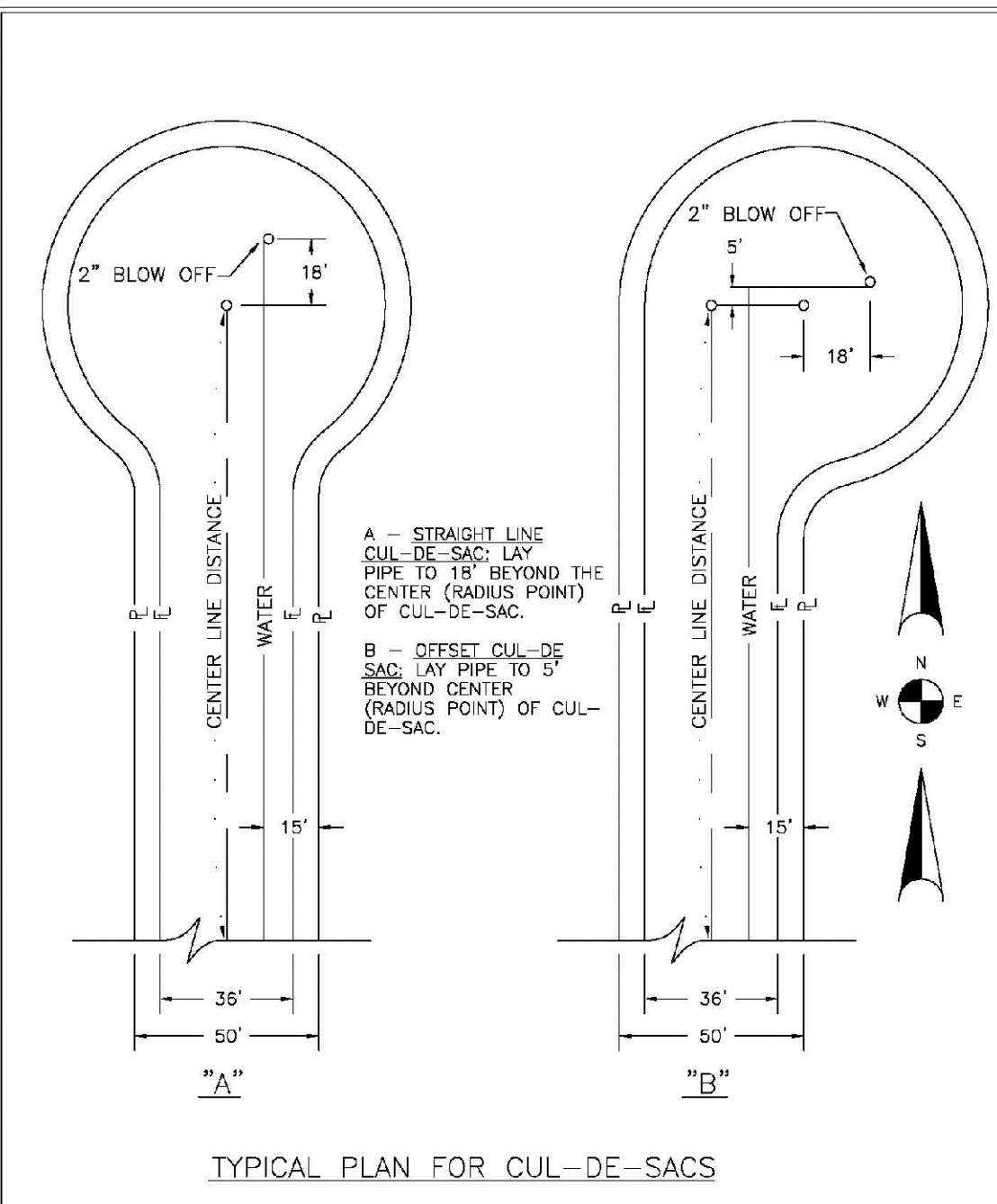


**NOTE:** WATER AND SEWER MAY NEVER BE CLOSER THAN 10" HORIZONTALLY AND MUST MAINTAIN A MINIMUM OF 5" FROM THE LIP OF PAN ON THE GUTTER.

<b>PARKER WATER &amp; SANITATION DISTRICT</b>	
<b>WATER DISTRIBUTION SYSTEM TYPICAL PLAN FOR CURVED STREETS</b>	
SCALE: NONE	DATE: 2/96
APPROVED: 1/16	10/16
PVR	
DIRECTOR OF ENGINEERING	

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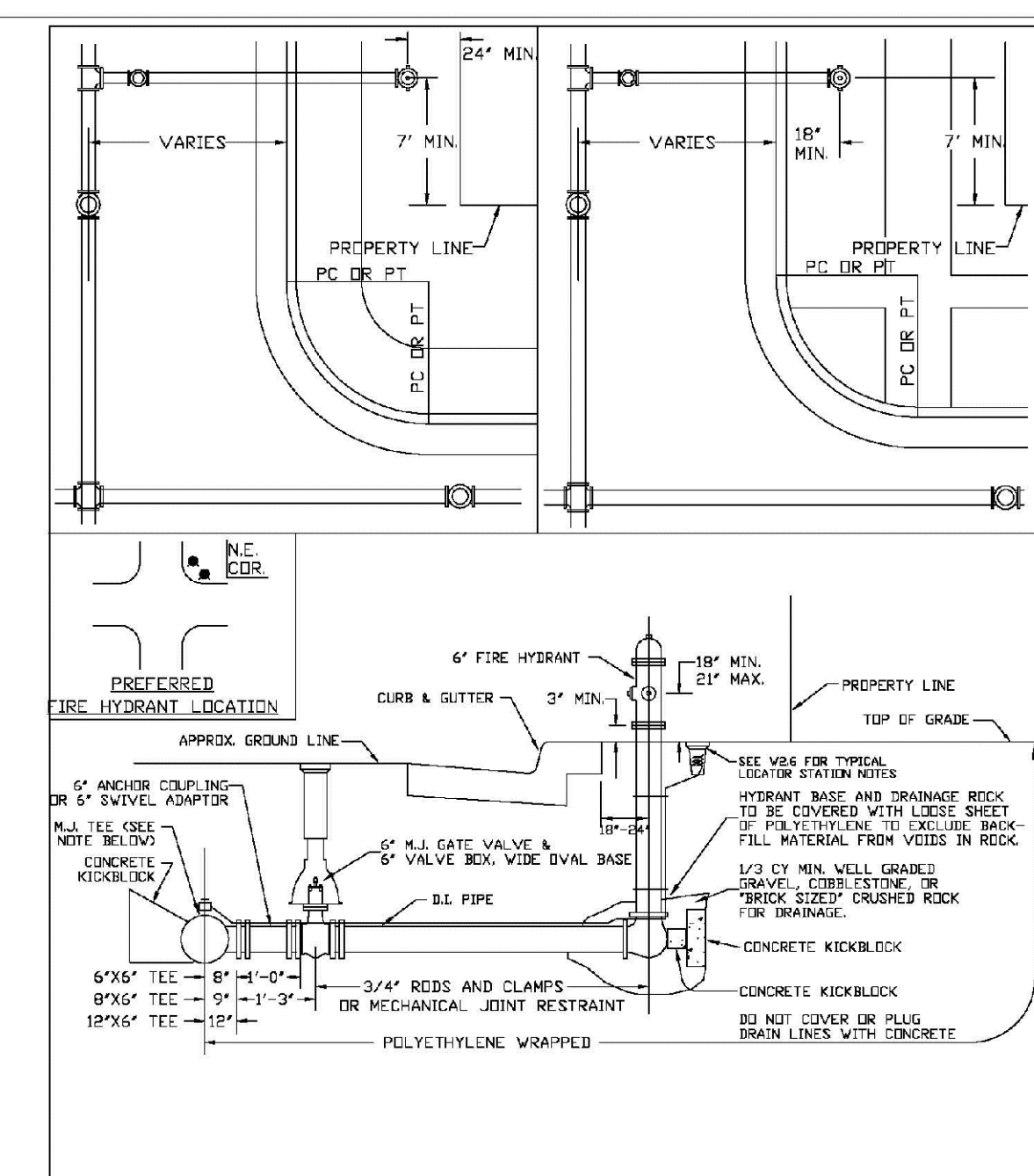
SHEET W3.3



<b>PARKER WATER &amp; SANITATION DISTRICT</b>	
<b>WATER DISTRIBUTION SYSTEM TYPICAL PLAN FOR CUL-DE-SACS</b>	
SCALE: NONE	DATE: 2/96
APPROVED: 1/16	10/16
PVR	
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W2.4



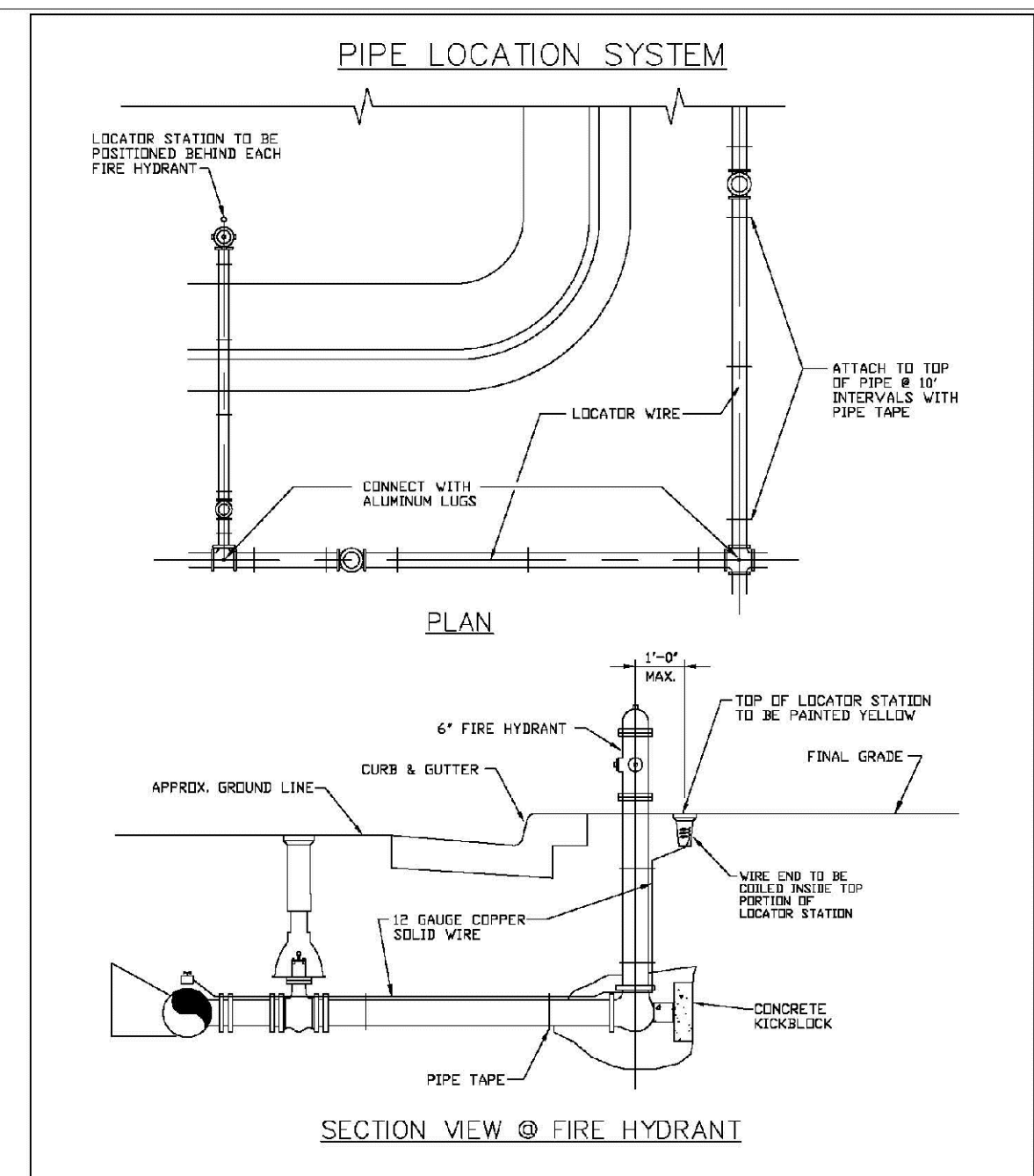
**NOTES:**

1. ALTERNATE TO FIRE ABOVE: FASTEN ALL VALVE DIRECTLY TO A 4" HORIZONTAL TIE WIRE CALLED TYPICAL S1.3.
2. NO HORIZONTAL OR VERTICAL BONDS ARE ALLOWED IN FIRE HYDRANT BRANCH.
3. NO PORTION OF FIRE HYDRANT MAY BE COVERED BY PLUG BRASS LINES WITH CONCRETE.
4. NO PORTION OF FIRE HYDRANT MAY BE COVERED BY PLUG BRASS LINES WITH CONCRETE.
5. FIRE HYDRANT EXTENSIONS MAY NOT BE COVERED BY PLUG BRASS LINES WITH CONCRETE.

<b>PARKER WATER &amp; SANITATION DISTRICT</b>	
<b>FIRE HYDRANTS LOCATION &amp; INSTALLATION</b>	
SCALE: NONE	DATE: 2/96
APPROVED: 4/01 01/03 09/06 12/07	1/16
PVR	
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W3.5



<b>PARKER WATER &amp; SANITATION DISTRICT</b>	
<b>LOCATOR WIRE DETAILS</b>	
SCALE: NONE	DATE: 2/96
APPROVED: 4/01 01/03 09/06 12/07	10/16
PVR	
DIRECTOR OF ENGINEERING	

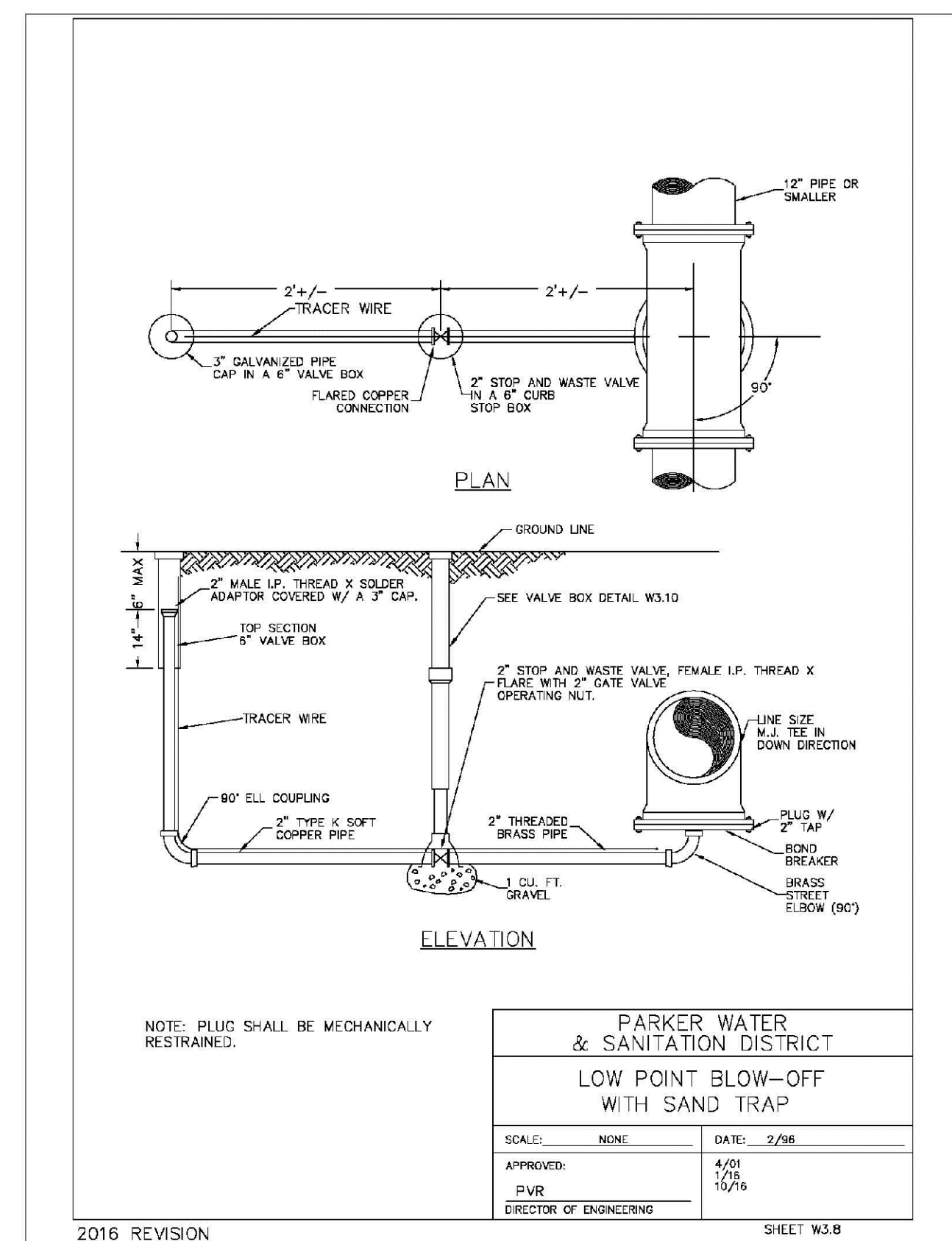
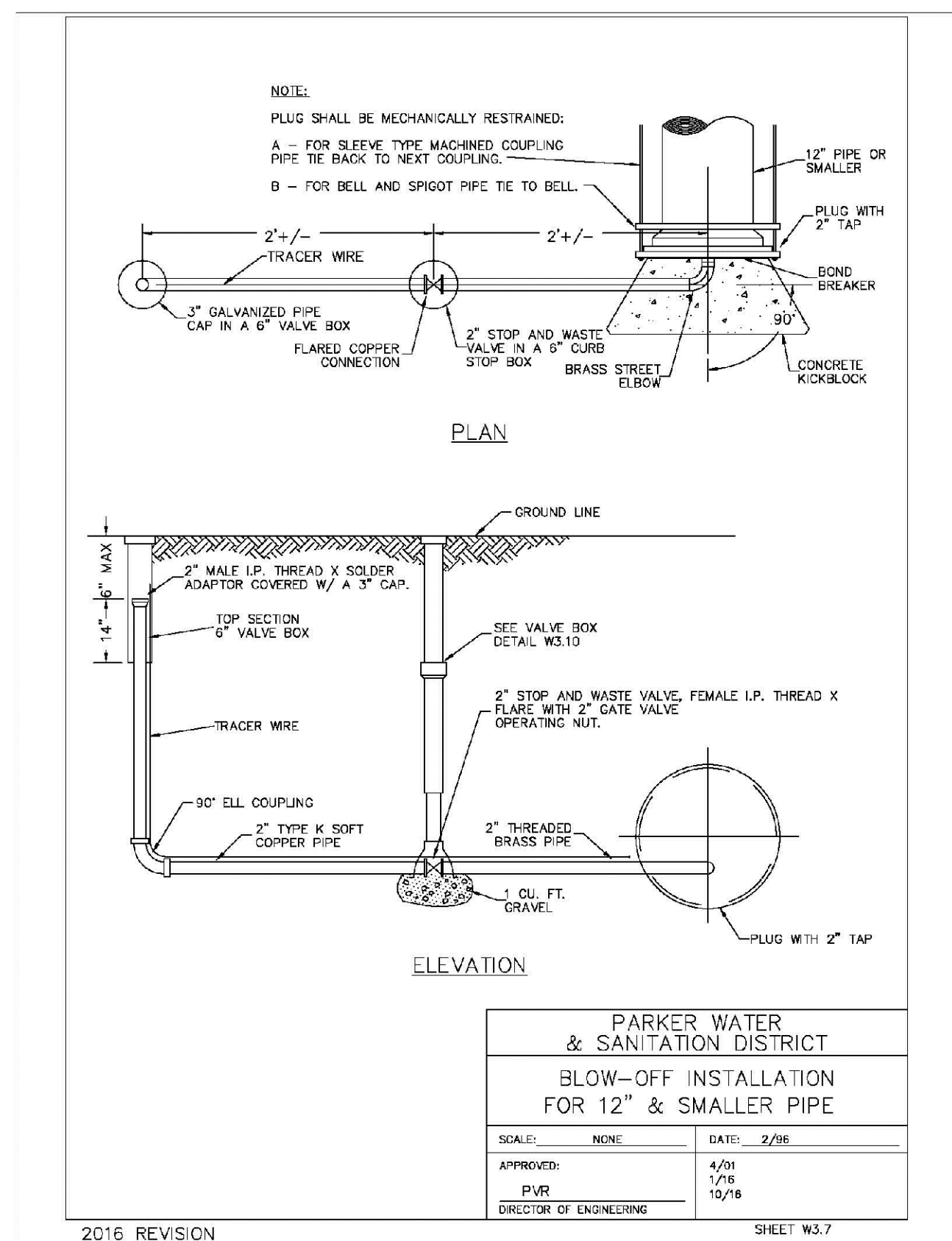
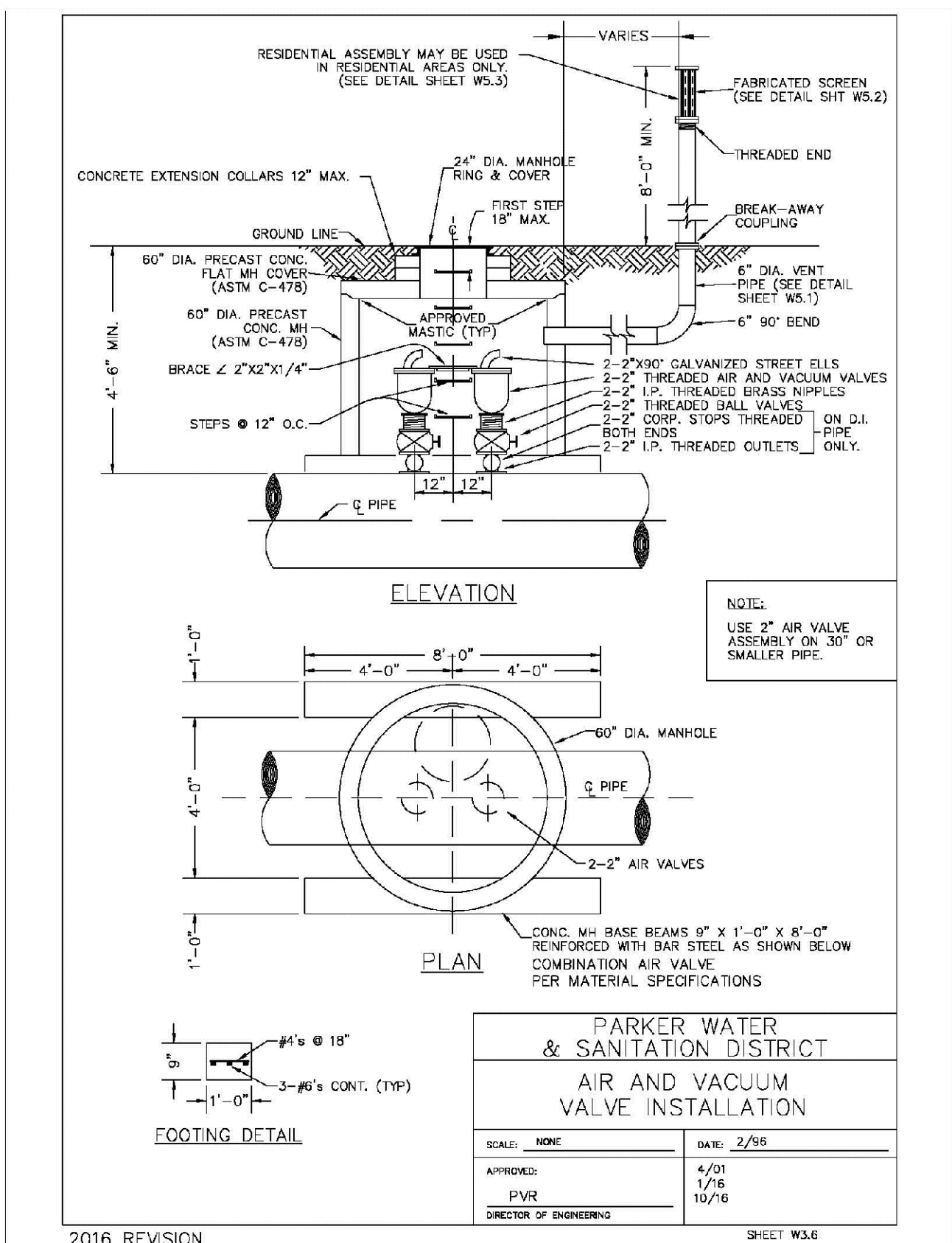
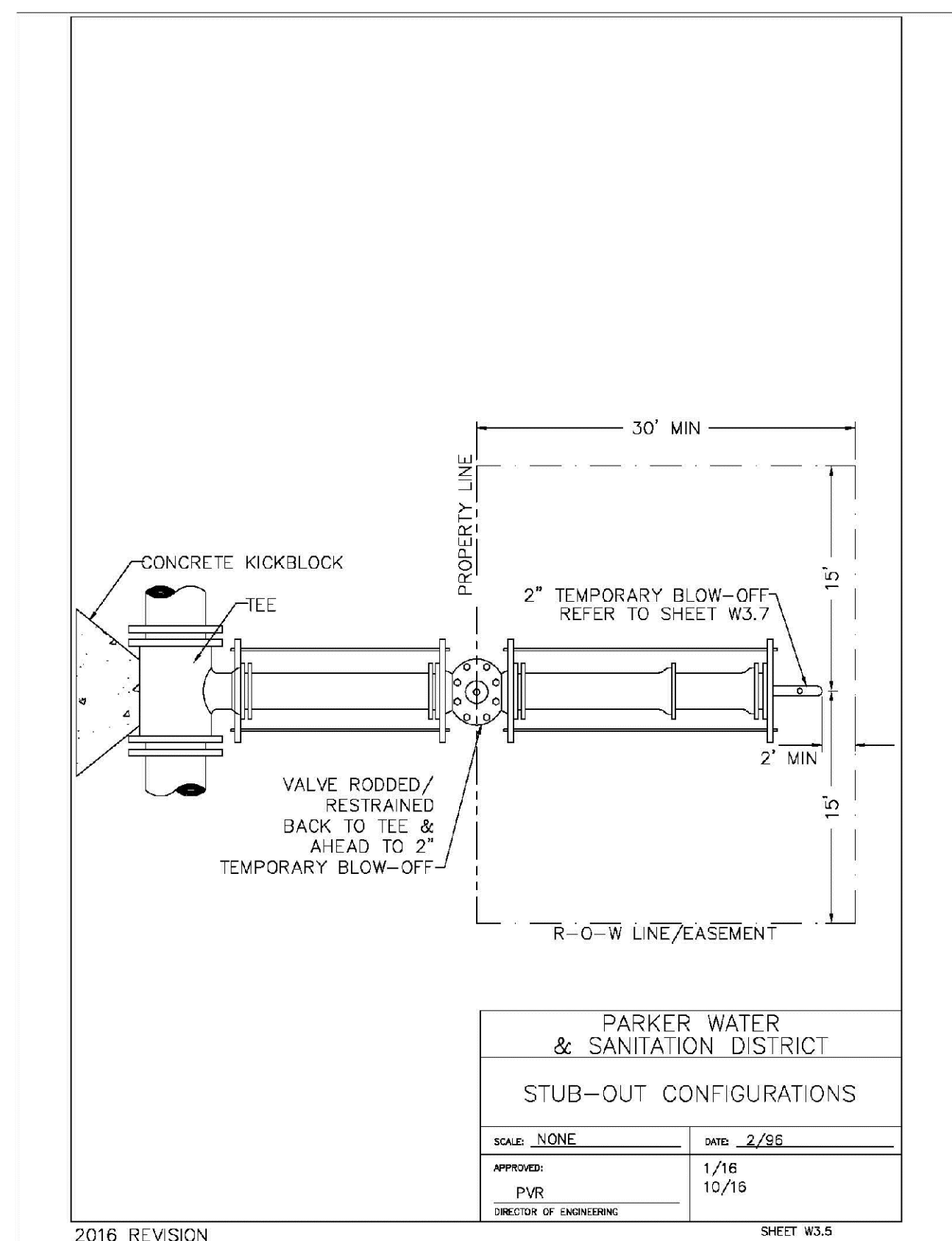
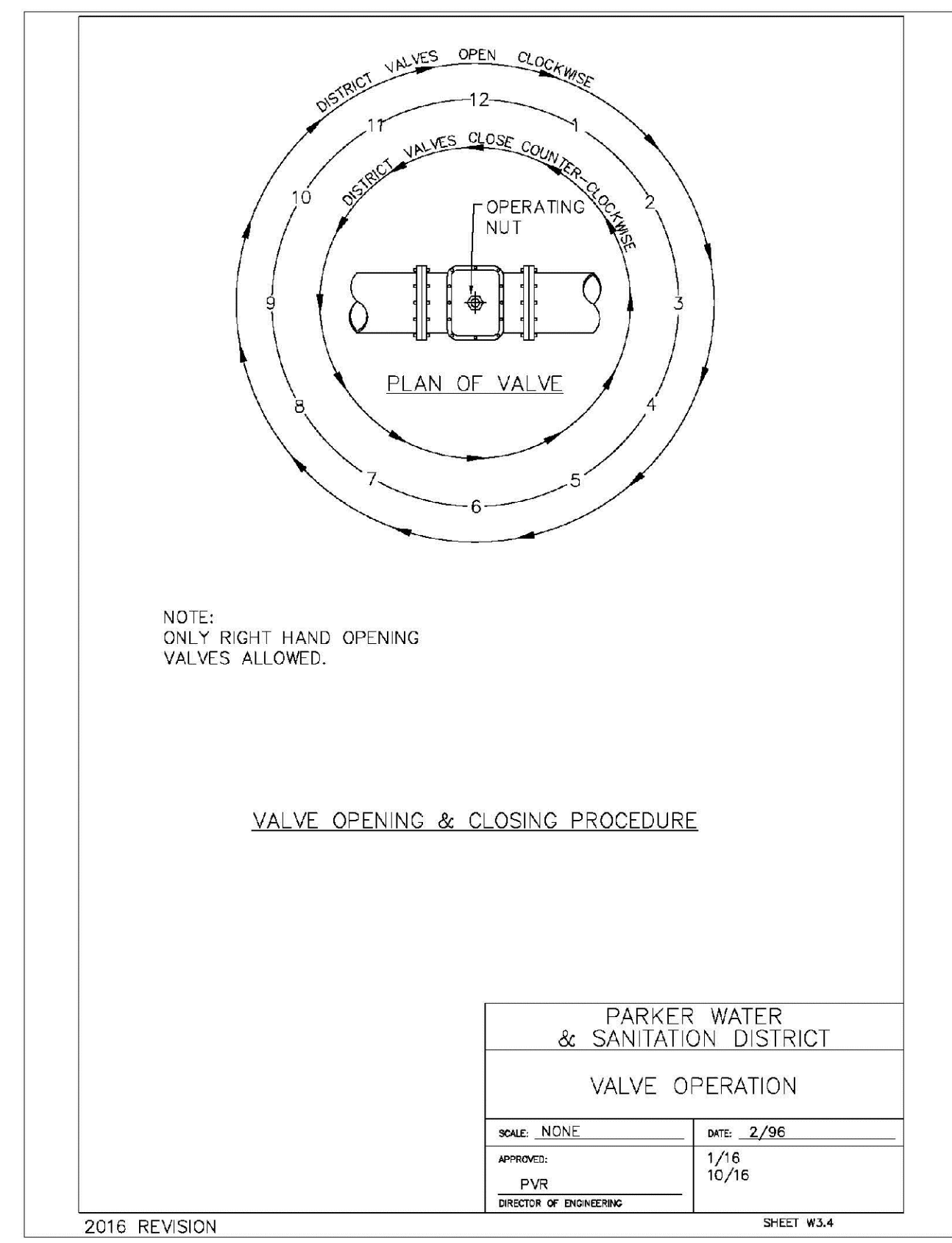
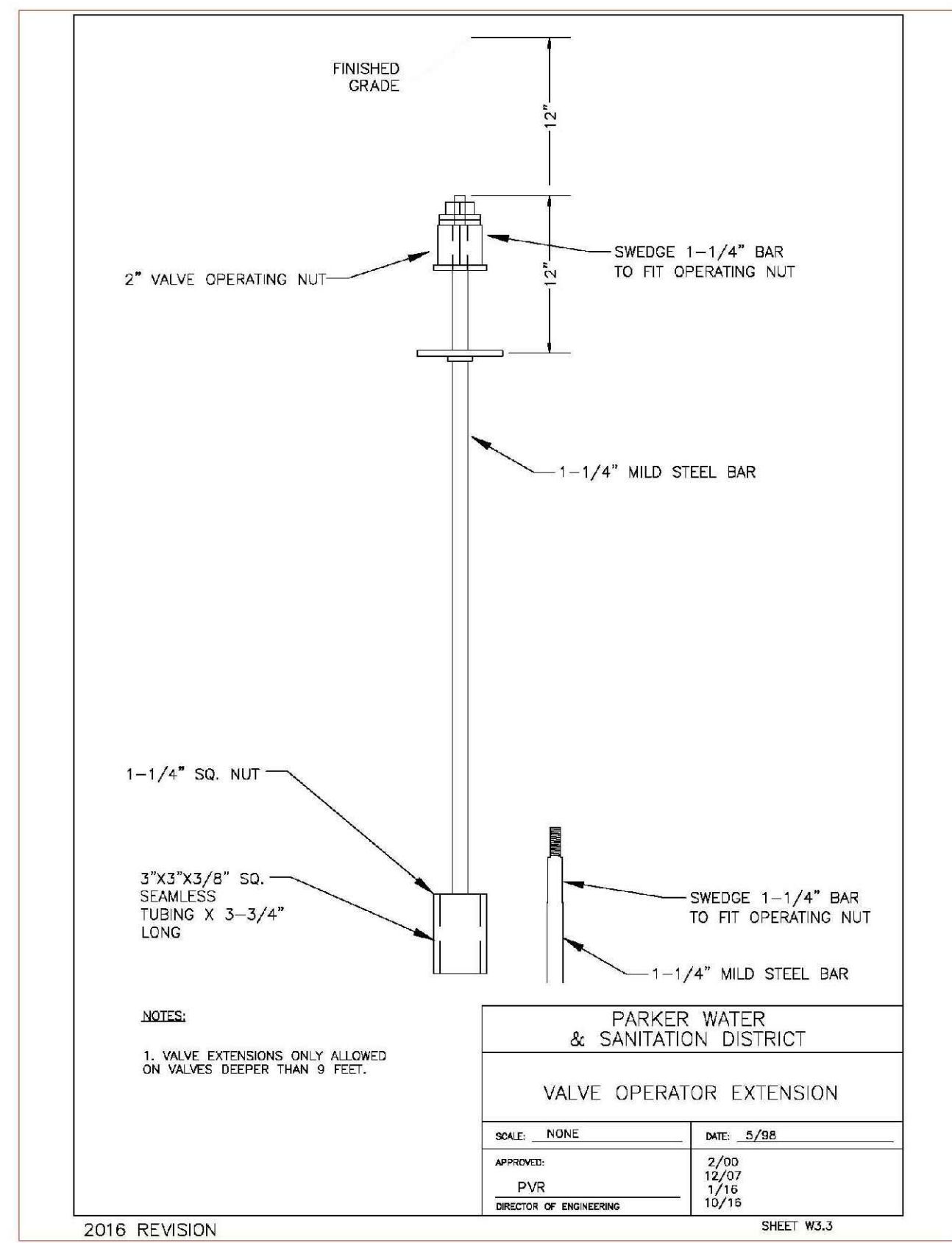
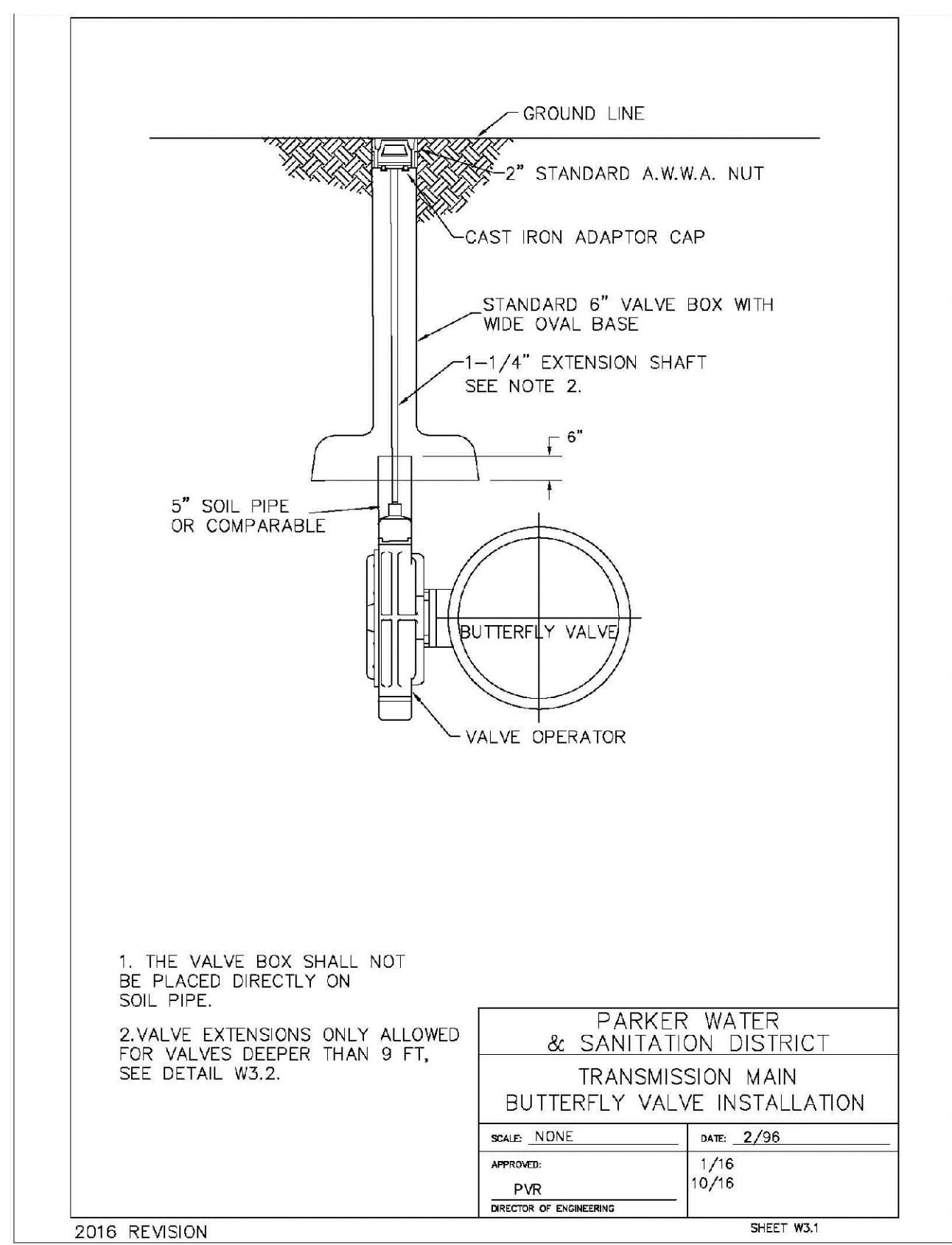
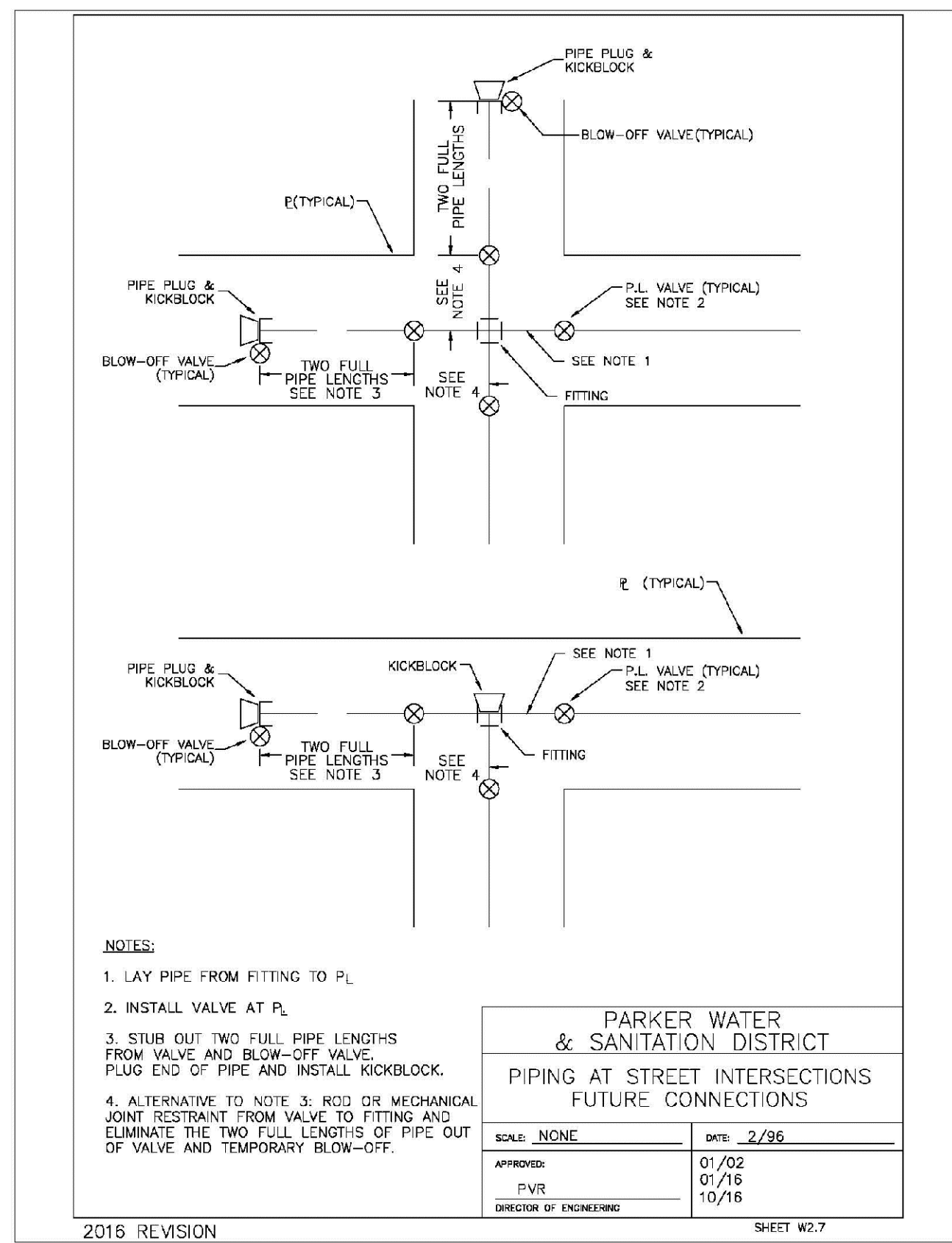
2016 REVISION

SHEET W2.6

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LITLTY NOTIFICATION  
CENTER OF EXCELLENCE

DRAWN BY: JF	SCALE: AS SHOWN	DATE: AUGUST 2017	SHEET NUMBER: 21	FILE NO: 8130283701	DATE: 10/16	INIT: PVR	APPR: PVR	DATE: 10/16	DATE: 10/16
	CHECKED BY: JJ								
<b>TRAILS AT CROWFOOT</b> <b>FILE NO: HR 935 LLC</b> 7353 South Alton Way CENTENNIAL, CO 80112									
<b>CONTRACTOR: CVL CONSULTANTS</b> 10333 E. Dry Creek Rd. Centennial, CO 80110 Englewood, CO 80110 Tel: (720) 482-9526 Fax: (720) 482-9546									



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 UNCC 1-800-922-1987  
 UTILITY NOTIFICATION  
 CENTER OF EXCELLENCE

DATE:	AUGUST 2017
CHECKED BY:	JU
DRAWN BY:	JF
SCALE:	AS SHOWN
FILE NO.:	8130283701
<b>TRAILS AT CROWFOOT</b>	
<b>FILING 2 CONSTRUCTION DRAWINGS</b>	
<b>WATER DETAILS</b>	
<b>HR 935 LLC</b>	
7353 South Alton Way CENTENNIAL, CO 80112	
<b>CVL CONSULTANTS</b>	
10333 E. Dry Creek Rd. Suite 410 Englewood, Colorado Tel: (720) 482-9526 Fax: (720) 482-9546	

22



### MECHANICAL JOINT RESTRAINT

WEDGE DETAIL      BOLT HOLE DETAIL

NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	K2 INCHES	K1 INCHES	F INCHES	M INCHES
4"	2	2				
6"	3	3	11.12	9.5	7.00	0.88
8"	4	4	13.37	11.75	8.75	1.00
10"	5	5	15.62	14.00	11.20	1.00
12"	6	6	17.88	16.25	13.30	1.25
4"	4	2				
6"	5	3	11.12	9.5	7.00	0.88
8"	6	4	13.37	11.75	9.75	1.00
10"	7	5	15.62	14.00	11.20	1.00
12"	8	6	17.88	16.25	13.30	1.25

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

PARKER WATER & SANITATION DISTRICT  
MECHANICAL JOINT RESTRAINT DETAILS

SCALE: NONE      DATE: 2/96

APPROVED: 2/90  
PVR 12/07  
DIRECTOR OF ENGINEERING 10/16

2016 REVISION      SHEET W3.17

### 11-1/4", 22-1/2", 45" & 90" BENDS

BOND BREAKER      BEARING SURFACE      UNDISTURBED SOIL

DEAD END

TEE

TYPICAL CROSS SECTION

MINIMUM BEARING SURFACE AREA (IN SQUARE FEET)

SIZE OF PIPE	11-1/4" BENDS	22-1/2" BENDS	45" BENDS	90" BENDS	TEE OR DEAD END
4"	1.00	1.20	1.00	1.80	1.50
6"	1.00	1.45	1.25	2.50	3.00
8"	1.00	2.00	1.50	3.50	4.50
10"	1.00	2.50	2.00	4.50	6.00
12"	1.00	3.00	2.50	6.00	8.00
14"	1.00	3.50	3.00	8.00	11.00
16"	1.00	4.00	3.50	11.00	15.00
18"	1.00	4.50	4.00	15.00	21.00
20"	1.00	5.00	4.50	21.00	29.00
24"	1.00	6.00	5.50	29.00	39.00

NOTES:  
1. ALL VALVES, TEES, BENDS AND PLUGS SHALL BE RESTRAINED AND KICKBLOCKED.  
2. WATER HAMMER: 1" C 16", 20" AND 24" WATER HAMMER = 70 PSI.  
3. BASED ON 150 PSI PIPE PRESSURE.  
4. SOIL BEARING CAPACITY = 3,000 LBS./SQ. FT.

PARKER WATER & SANITATION DISTRICT  
CONCRETE KICKBLOCKS BEARING SURFACES AND INSTALLATION

SCALE: NONE      DATE: 2/96

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

2016 REVISION      SHEET W3.18

HALF PLAN

TYPICAL CROSS SECTION

24" DIAMETER RING AND COVER

NOTES:  
1. Coating Specifications: ASTM A-48 With A Minimum Tenacity Strength of 20 KSI (Class 20)  
2. All Castings to be Dipped in Asphalt Base Coat (Or Approved Lead)

PARKER WATER & SANITATION DISTRICT  
24" DIAMETER RING AND COVER

SCALE: NONE      DATE: 6/95

APPROVED: 12/97  
PVR 1/16  
DIRECTOR OF ENGINEERING 10/16

2016 REVISION      SHEET W3.19

ACCESS MANHOLE

ACCESS MANHOLE AND AIR VALVE ASSEMBLY

NOTES:  
1. USE 2" AIR VALVE ASSEMBLY ON 30" OR SMALLER PIPES.  
2. RESIDENTIAL ASSEMBLY MAY BE USED IN RESIDENTIAL AREAS ONLY (SEE DETAIL SHEET W3.13).  
3. SEE SHEET W3.6 FOR CONCRETE MANHOLE BASE BEAMS AND AIR/VACUUM VALVE DETAILS.

PARKER WATER & SANITATION DISTRICT  
ACCESS MANHOLE ASSEMBLY

SCALE: NONE      DATE: 2/96

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

2016 REVISION      SHEET W3.20

STANDARD TRENCH SECTION

STREET CUT PATCH

PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
10"	2'-0"	3'-0"
12"	2'-2"	3'-2"
14"	2'-4"	3'-4"
16"	2'-6"	3'-6"
18"	2'-8"	3'-8"
20"	3'-0"	4'-0"
24"	3'-6"	4'-6"

PARKER WATER & SANITATION DISTRICT  
TYPICAL TRENCH SECTION PIPE PROTECTION

SCALE: NONE      DATE: 2/96

APPROVED: 5/98  
PVR 2/02  
DIRECTOR OF ENGINEERING 10/16

2016 REVISION      SHEET W4.1

### PIPE BEDDING

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

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

Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 4	70-100
No. 6	35-83
No. 16	20-80
No. 30	5-60
No. 50	2-30
No. 100	1-10
No. 200	0-3

PARKER WATER & SANITATION DISTRICT  
PIPE BEDDING

SCALE: NONE      DATE: 2/96

APPROVED: 5/98  
PVR 2/02  
DIRECTOR OF ENGINEERING 10/16

2016 REVISION      SHEET W4.2

PLAN VIEW      PROFILE      TYPICAL SECTION

WATERLINE ENCASEMENT

NOTES:  
1. ALL CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 PSI USING TYPE 1 PORTLAND CEMENT AND 3/4" AGGREGATE. ALL CONCRETE SHALL HAVE 5-7% ENTRAINED AIR CONTENT AND A MAXIMUM SLUMP OF 4".  
2. ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.  
3. ALL REINFORCEMENT SHALL HAVE 2" MIN. CONCRETE COVER.  
4. THE SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY PRIOR TO FORMING THE STRUCTURE.  
5. PIPE SHALL BE WRAPPED WITH FELT LAYER BEFORE ENCASEMENT.

PARKER WATER & SANITATION DISTRICT  
WATERLINE ENCASEMENT

SCALE: NONE      DATE: 5/98

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

2016 REVISION      SHEET W4.3

PLAN FOR PERPENDICULAR CROSSING      PLAN FOR ANGLE CROSSING

PROFILE

FORMULA FOR FINDING C:  
 $C = B + (2)(1.5) \left[ \frac{B}{2} + A + F \right]$

FORMULA FOR FINDING L:  
 $L = \frac{C}{\sin \phi}$

PARKER WATER & SANITATION DISTRICT  
BORED CROSSINGS BENEATH CONDUITS

SCALE: NONE      DATE: 2/96

APPROVED: 2/00  
PVR 1/16  
DIRECTOR OF ENGINEERING 10/16

2016 REVISION      SHEET W4.4

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LITVINY NOTIFICATION CENTER OF ELECTRICAL

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Suite 410  
Englewood, CO 80150  
Tel: (720) 482-9526  
Fax: (720) 482-9548

**CVL**  
CONSULTANTS

HR 935 LLC  
7353 South Alton Way  
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT  
FILM 2 CONSTRUCTION DRAWINGS  
WATER DETAILS

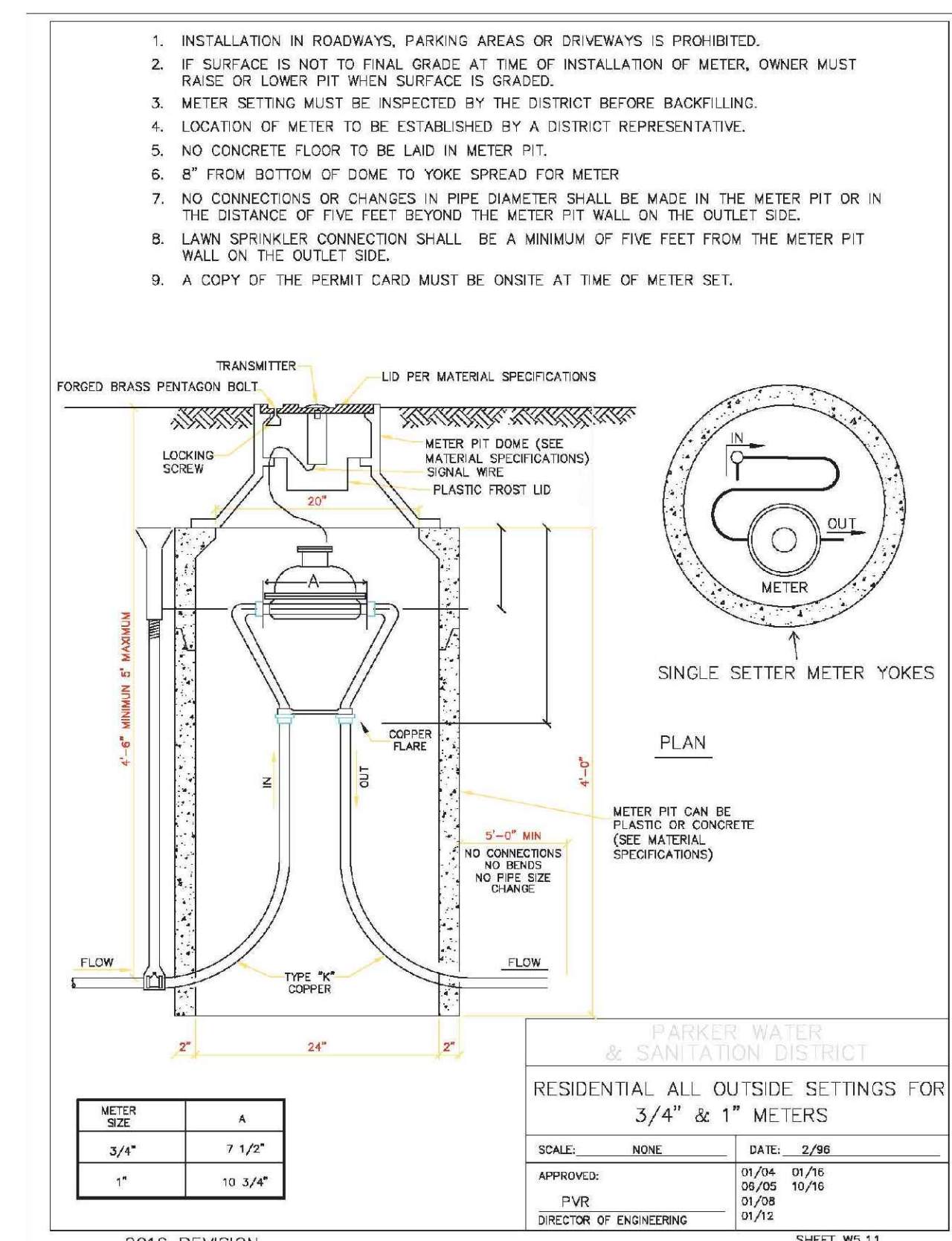
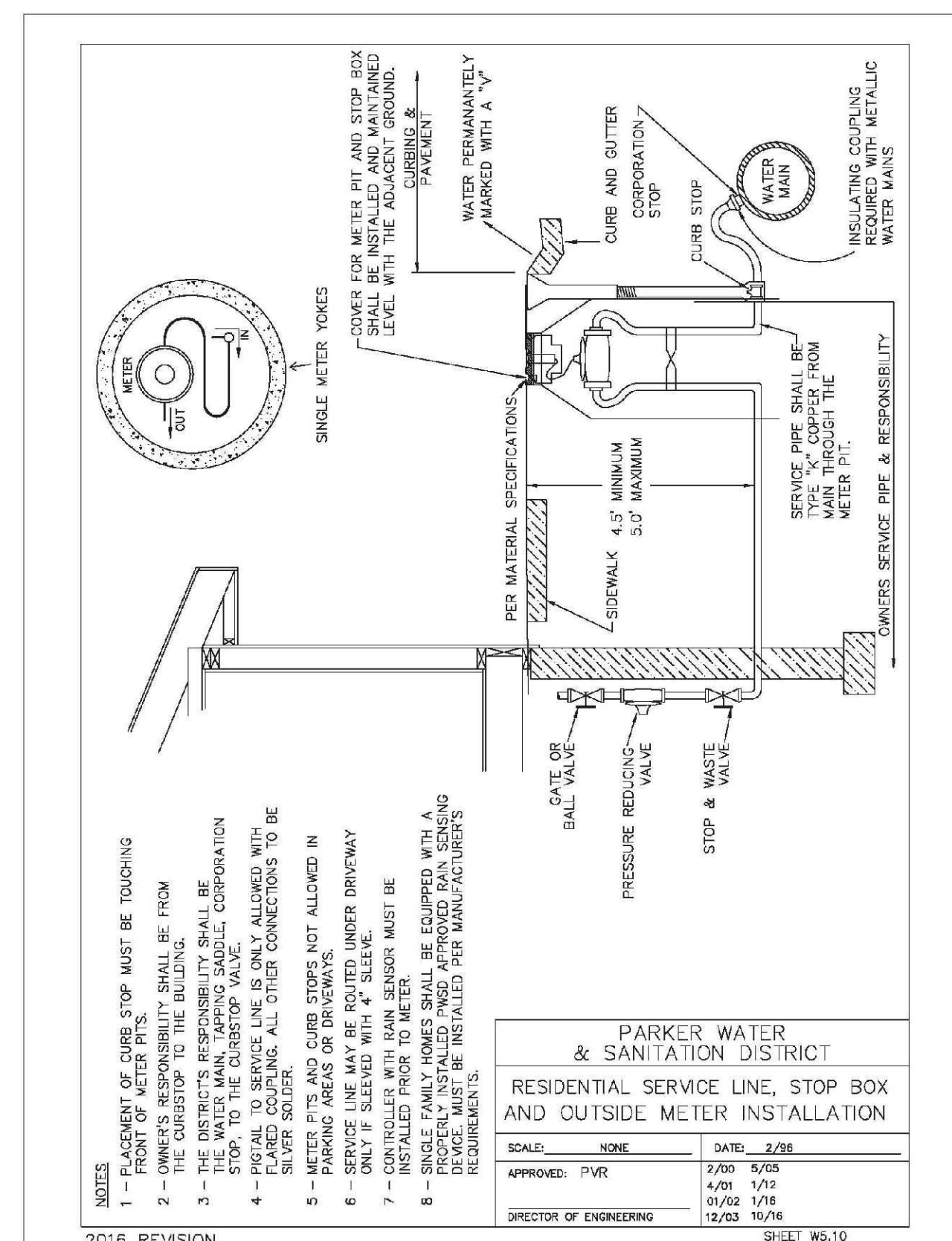
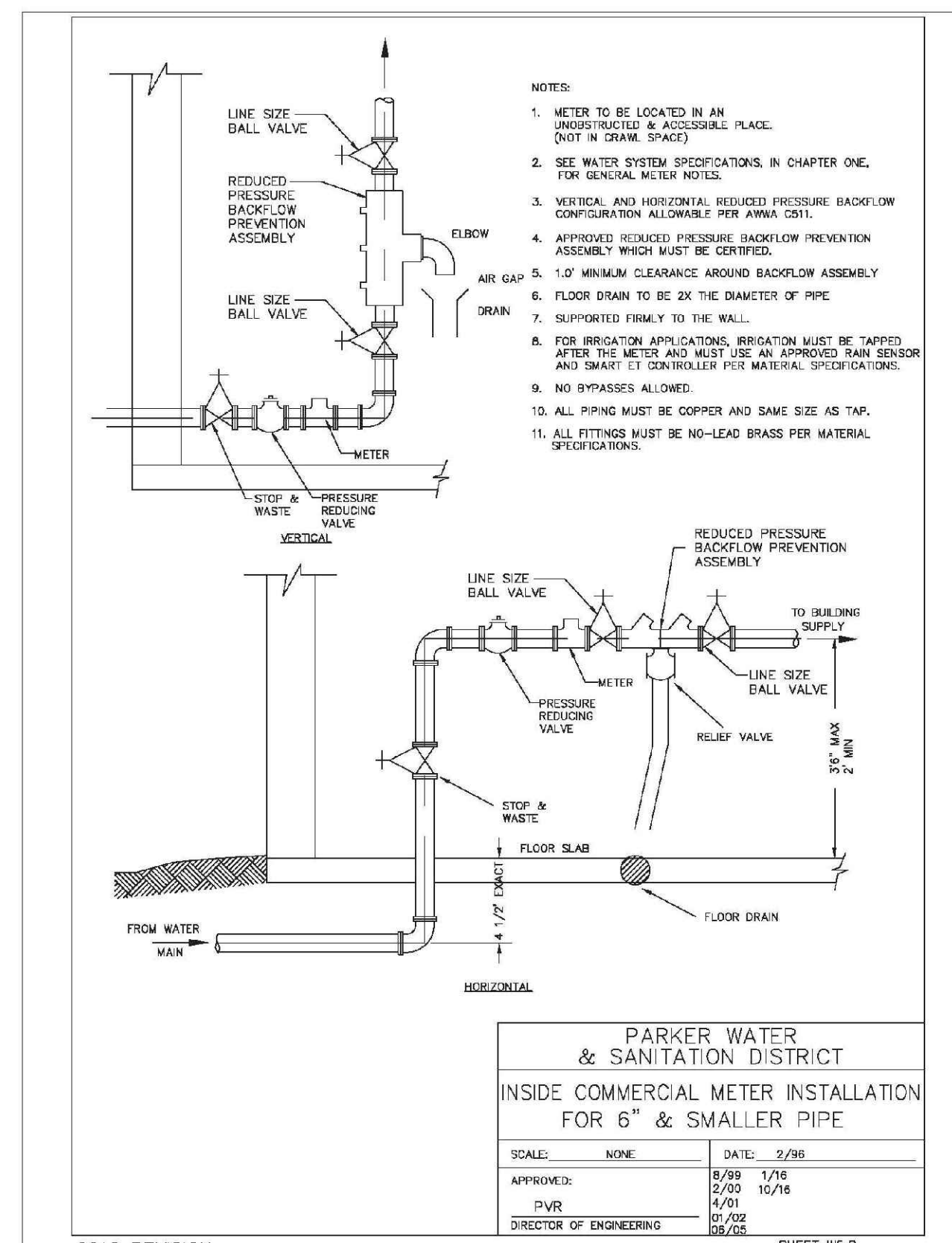
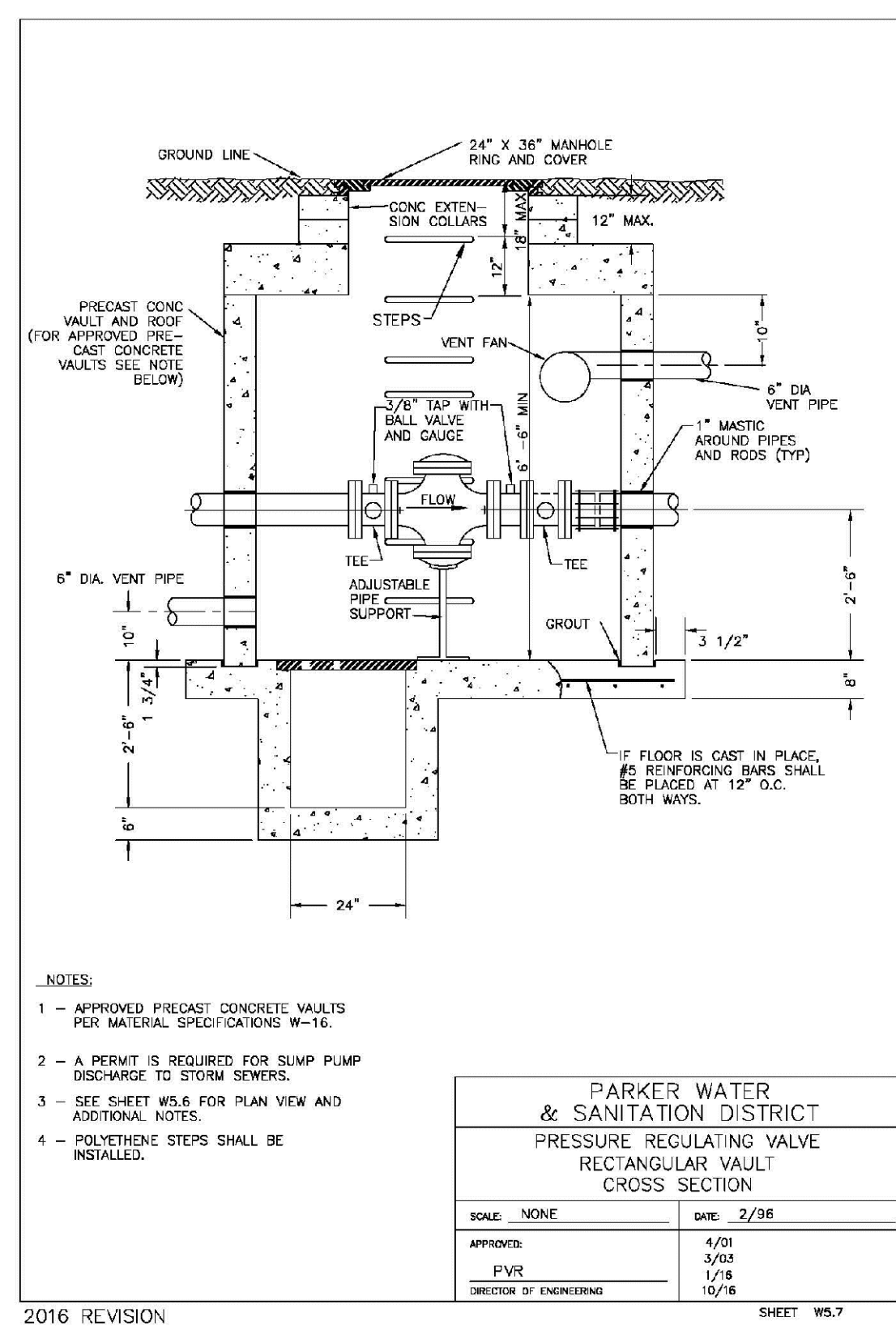
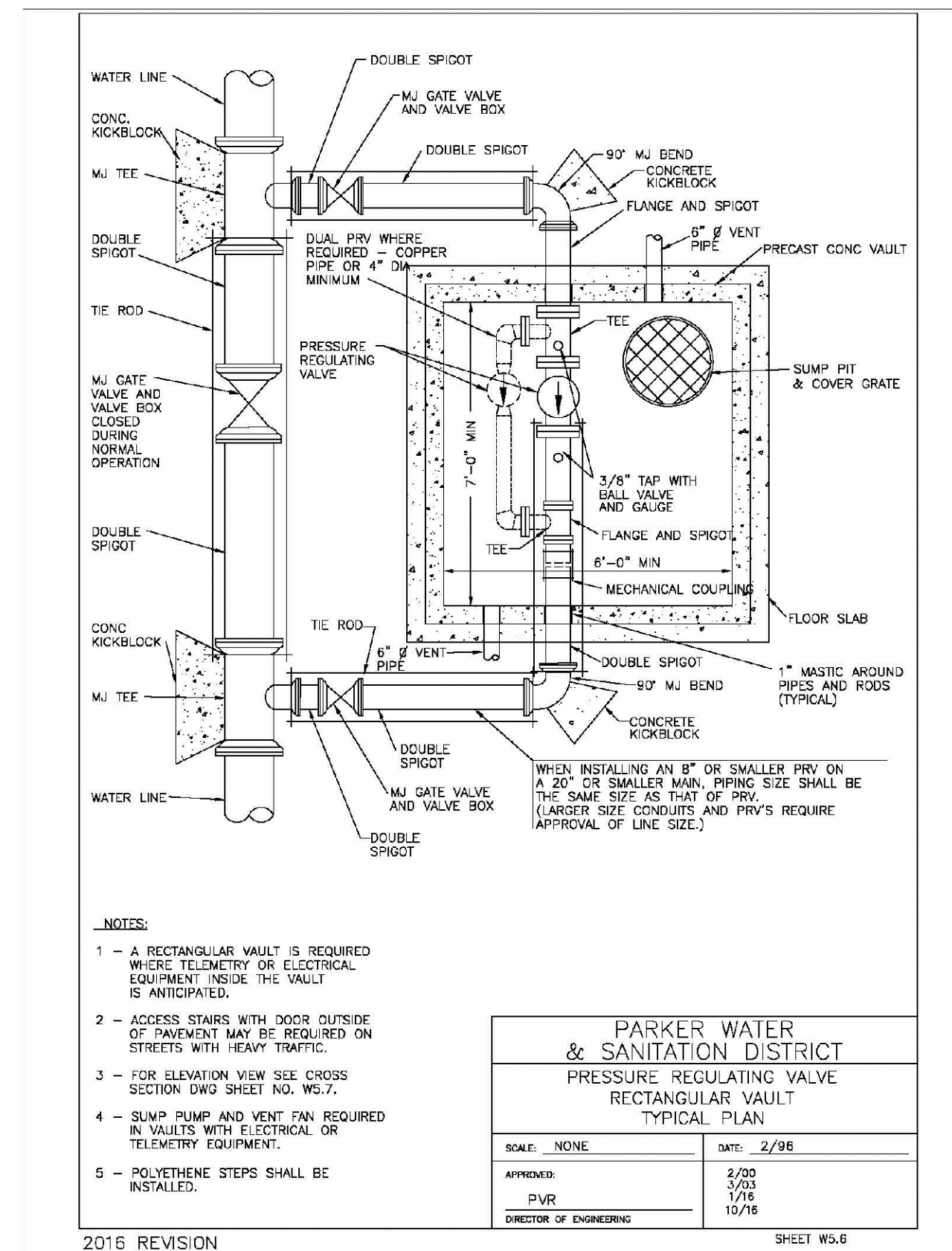
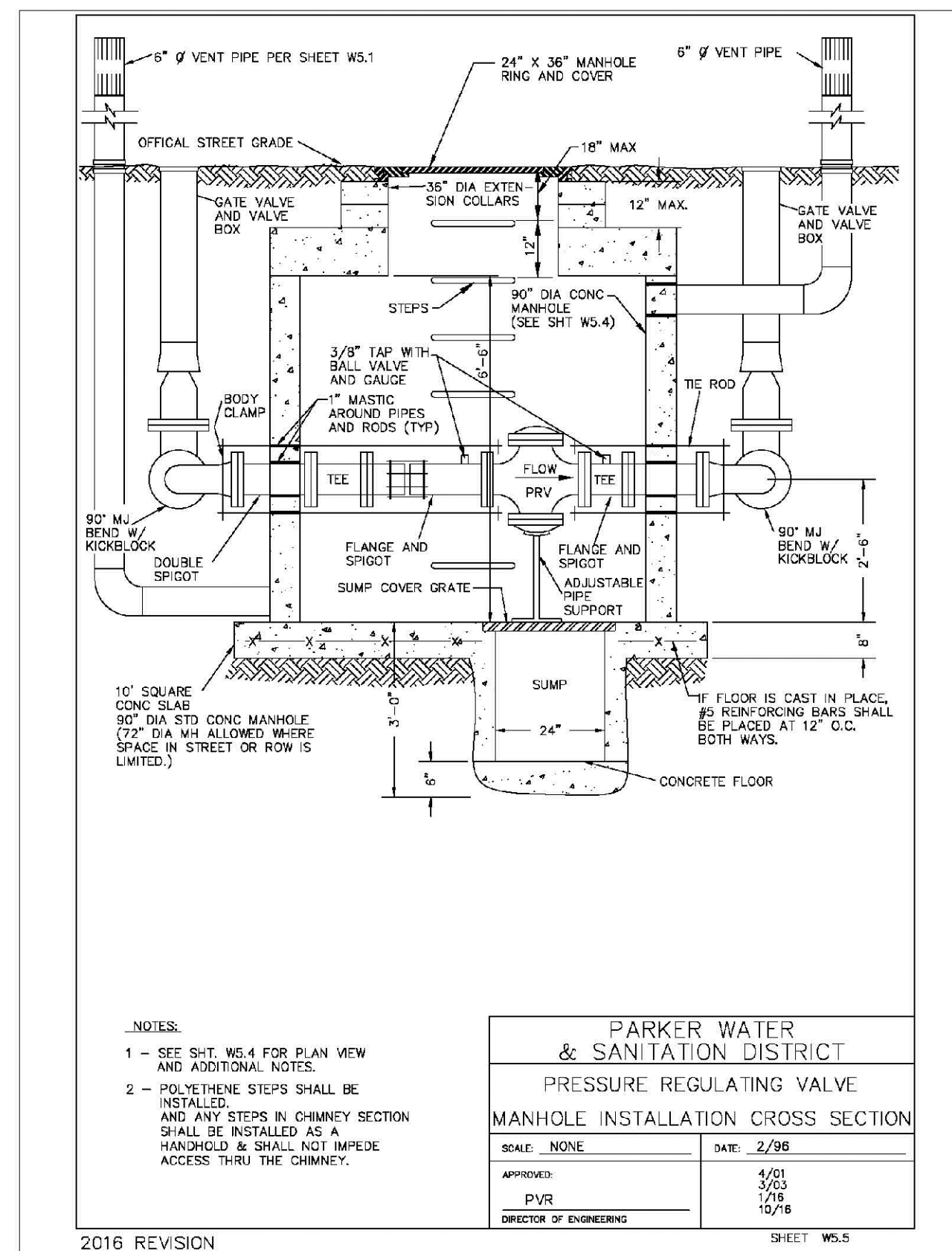
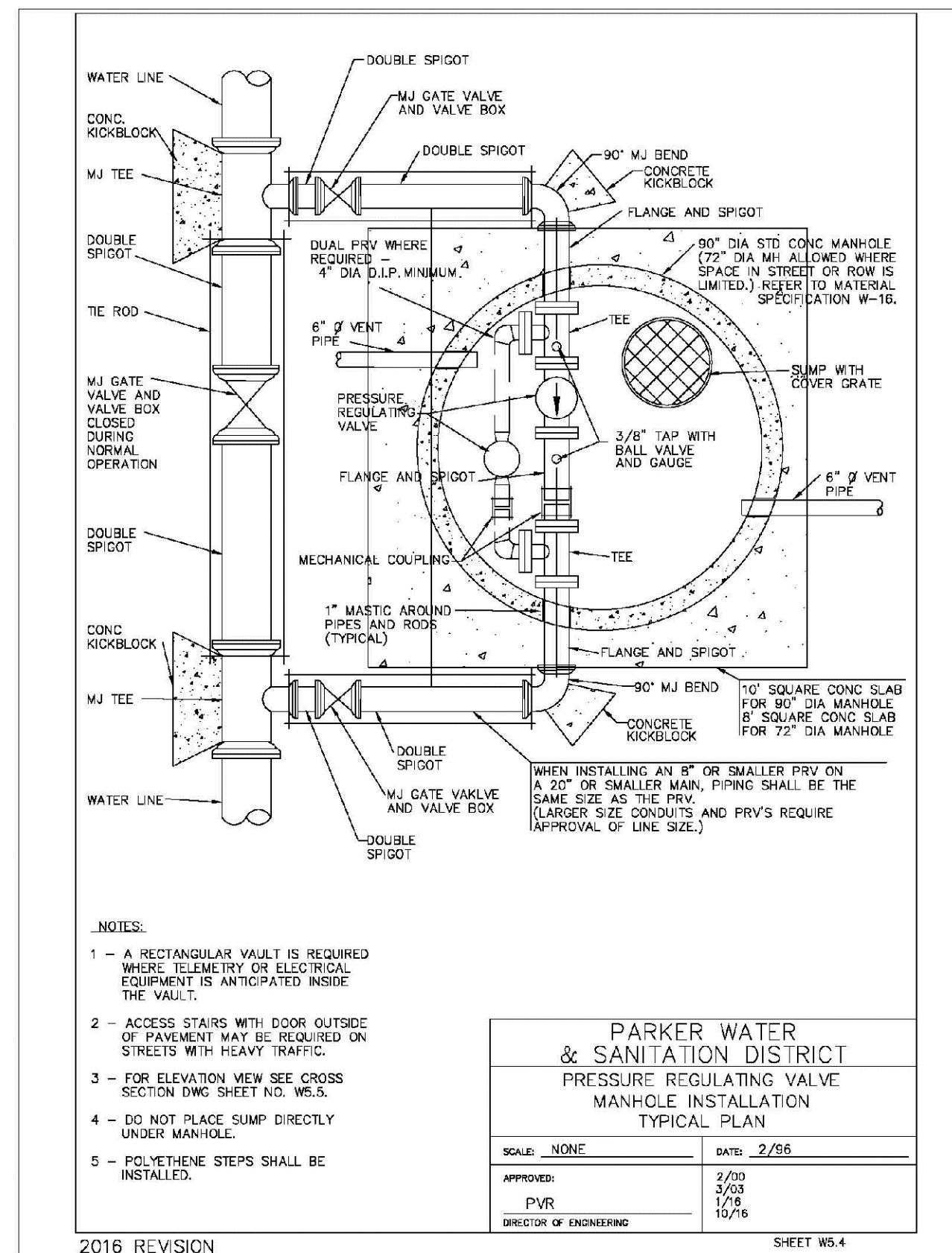
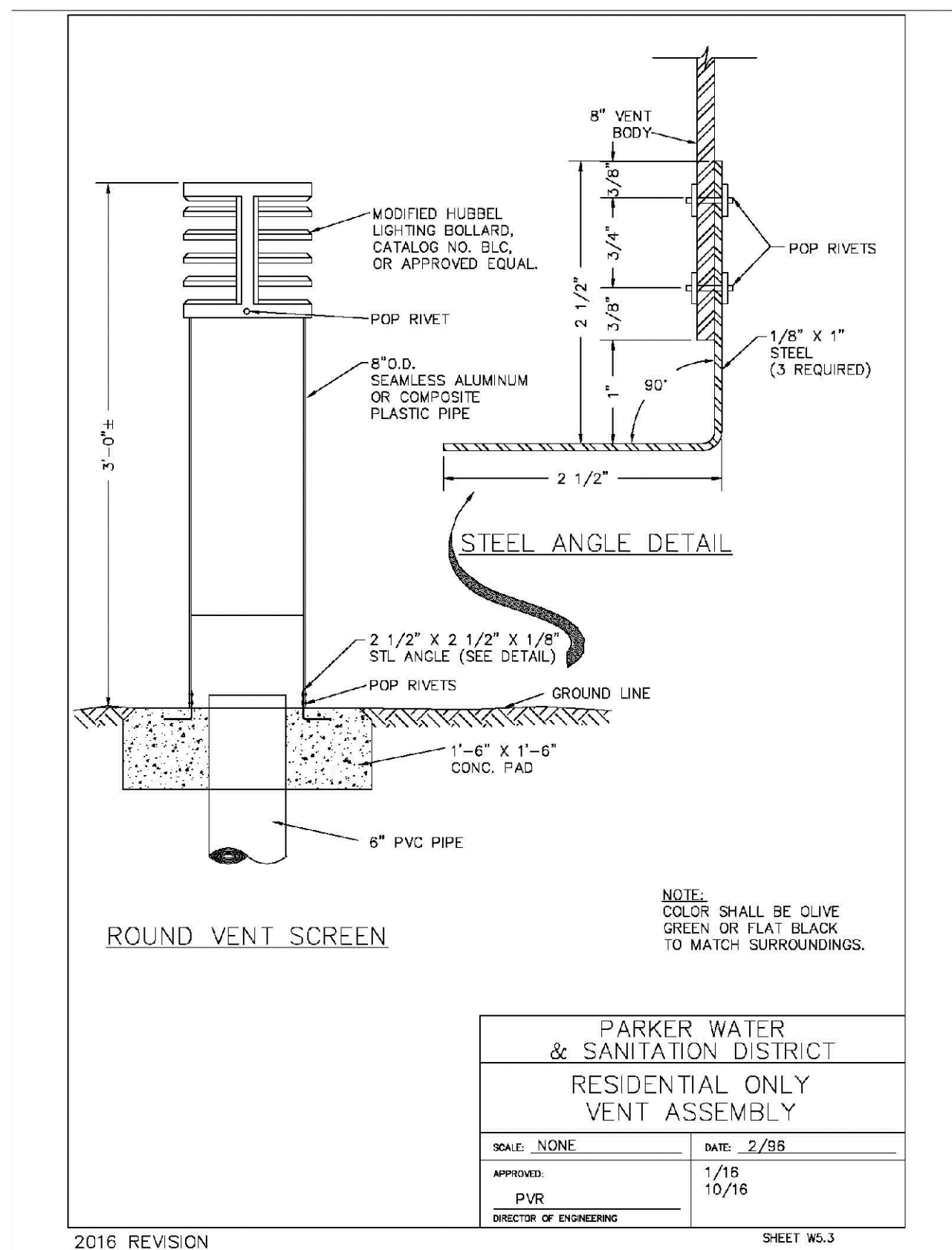
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DRAWN BY: JF  
CHECKED BY: JU  
DATE: AUGUST 2017

SHEET NUMBER: 24

DATE: 8/16/16  
APPR.:  
REVISIONS:  
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**TRAILS AT CROWFOOT  
FILM 2 CONSTRUCTION DRAWINGS  
WATER DETAILS**

SCALE: AS SHOWN  
FILE NO: 8130283701

DRAWN BY: JF  
CHECKED BY: JJ  
DATE: AUGUST 2017

SHEET NUMBER: 26

No.	Revisions	Date	Init.	Appr.	Date

