

THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, SECTION 06, TOWNSHIP 13 SOUTH, RANGE 64
WEST OF THE 6TH P.M., COUNTY OF EL PASO, STATE OF COLORADO

SUMMARY OF APPROXIMATE QUANTITIES

Item Description	Unit	Quantity
UNCLASSIFIED EXCAVATION	CY	3813
SUBGRADE SOIL PREPARATION (6-INCH)	SY	3569
REMOVAL OF CULVERT	LF	37
REMOVAL OF BOLLARDS	EA	8
REMOVAL OF GRAVEL	SY	3897
RESET HYDRANT	EA	2
RESET FENCE	LF	297
AGGREGATE BASE COURSE (CLASS 6)	CY	594
ASPHALT CONCRETE PAVEMENT (GRADING SX)	TON	785
CONCRETE PAVEMENT (6 INCH)	SY	101
CONCRETE CURB RAMP (6-INCH)	SY	3
CONCRETE SIDEWALK (4-INCH)	SY	85
CURB AND GUTTER TYPE A (SPILL)	LF	323
CONCRETE CROSS PAN (8' WIDE, 9" THICK)	SY	11
BOLLARDS	EA	8
CLSM ENCASING	CY	5
DRAIN ROCK (#57 STONE)	TON	27
GEOTEXTILE NONWOVEN FABRIC	SY	147
12 INCH HDPE- DUAL WALL FLEXIBLE PIPE	LF	239
12 INCH PERFORATED HDPE FLEXIBLE PIPE	LF	212
18 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	71
23 X14 INCH ELLIPTICAL REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	67
24 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	35
30 INCH REINFORCED CONCRETE (COMPLETE IN PLACE)	LF	244
38 X 24 INCH ELLIPTICAL REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	314
36 INCH REINFORCED CONCRETE (COMPLETE IN PLACE)	LF	321
CDOT TYPE C INLET	EA	4
CDOT TYPE C INLET (WITH SLOPE PAVING)	EA	1
CDOT TYPE D INLET	EA	1
NYPLOPLAST AREA INLET	EA	1
PRE CAST SLAB MANHOLE	EA	5
BOX BASE MANHOLE	EA	1
ROOF DRAIN CONNECTION AND FITTING	EA	3
STORM CLEANOUT	EA	5
MSE BLOCK WALL	SF	630
STORM DRAIN INLET PROTECTION	EA	17
EROSION CONTROL BLANKET	SY	355
SEEDING AND MULCHING	ACRE	1
CONCRETE WASH OUT BASIN	EA	1
SILT FENCE	LF	812
VEHICLE TRACKING CONTROL	EA	1
SIGN POST AND PANEL (ADA PARKING SIGN)	EA	1
THERMOPLASTIC PAVEMENT MARKING	SF	100
EPOXY PAVEMENT MARKING	SF	3

MOBILIZATION	LS	1
CONSTRUCTION SURVEYING AND STAKING	LS	1
CONSTRUCTION TRAFFIC CONTROL	LS	1
MATERIALS AND SAMPLE TESTING	LS	1
CONSTRUCTION MANAGEMENT	LS	1



90% CONSTRUCTION DOCUMENTS

SAQ

SHEET NUMBER
C1.3

**RWRF STORMWATER
IMPROVEMENTS
PREPARED FOR
WOODMEN HILLS
METROPOLITAN DISTRICT
EL PASO COUNTY
COLORADO**

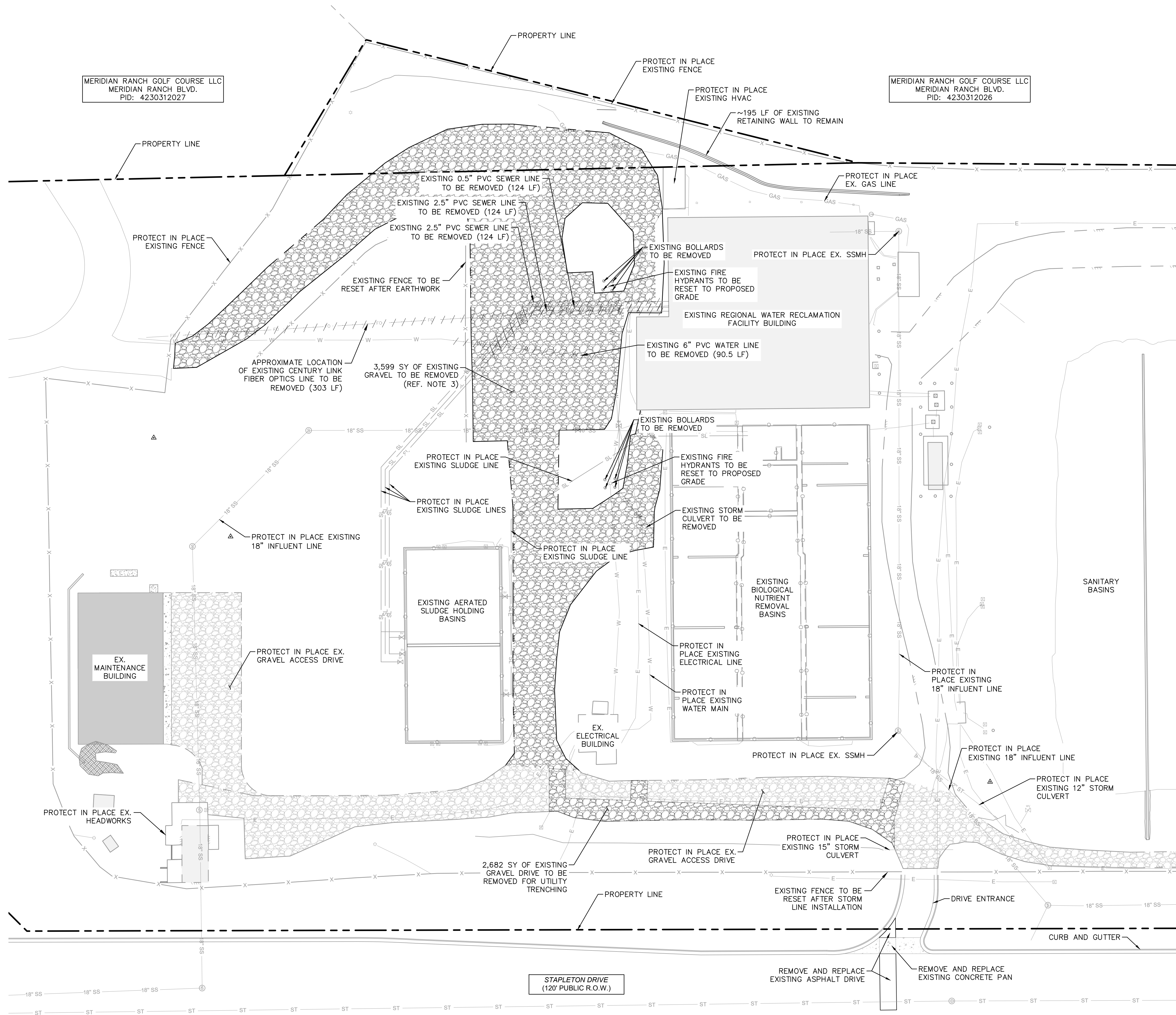
KHA PROJECT 196013004	DATE 2026-08-10	SCALE	AS SHOW
		DESIGNED BY	ME0
		DRAWN BY	ME0
		CHECKED BY	KRK

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LEGEND

---	PROPERTY LINE
---	PARCEL LINE
X-X	EXISTING SITE FENCE
W-W	EXISTING WATER MAIN
18" SS	EXISTING 18" SANITARY LINE
SL-SL	EXISTING SLUDGE LINE
FO-FO	EXISTING FIBER OPTICS LINE
GAS	EXISTING GAS LINE
E	EXISTING ELECTRIC LINE
ST-ST	EXISTING STORM SEWER
////	DEMO EXISTING UTILITY LINE
DEMO EXISTING GRAVEL	

NOTES

1. ALL EXISTING UTILITIES TO REMAIN AND BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
2. UTILITIES TO BE REMOVED ARE TO BE CAPPED IN PLACE IN ACCORDANCE WITH WOODMEN HILL METRO STANDARDS AND OVERSIGHT
3. CONTRACTOR TO DETERMINE IF REMOVED GRAVEL IS ADEQUATE TO BE USED AS SUBGRADE PREP. IF ADEQUATE, GRAVEL TO BE STOCKPILED AND STORED ON-SITE.

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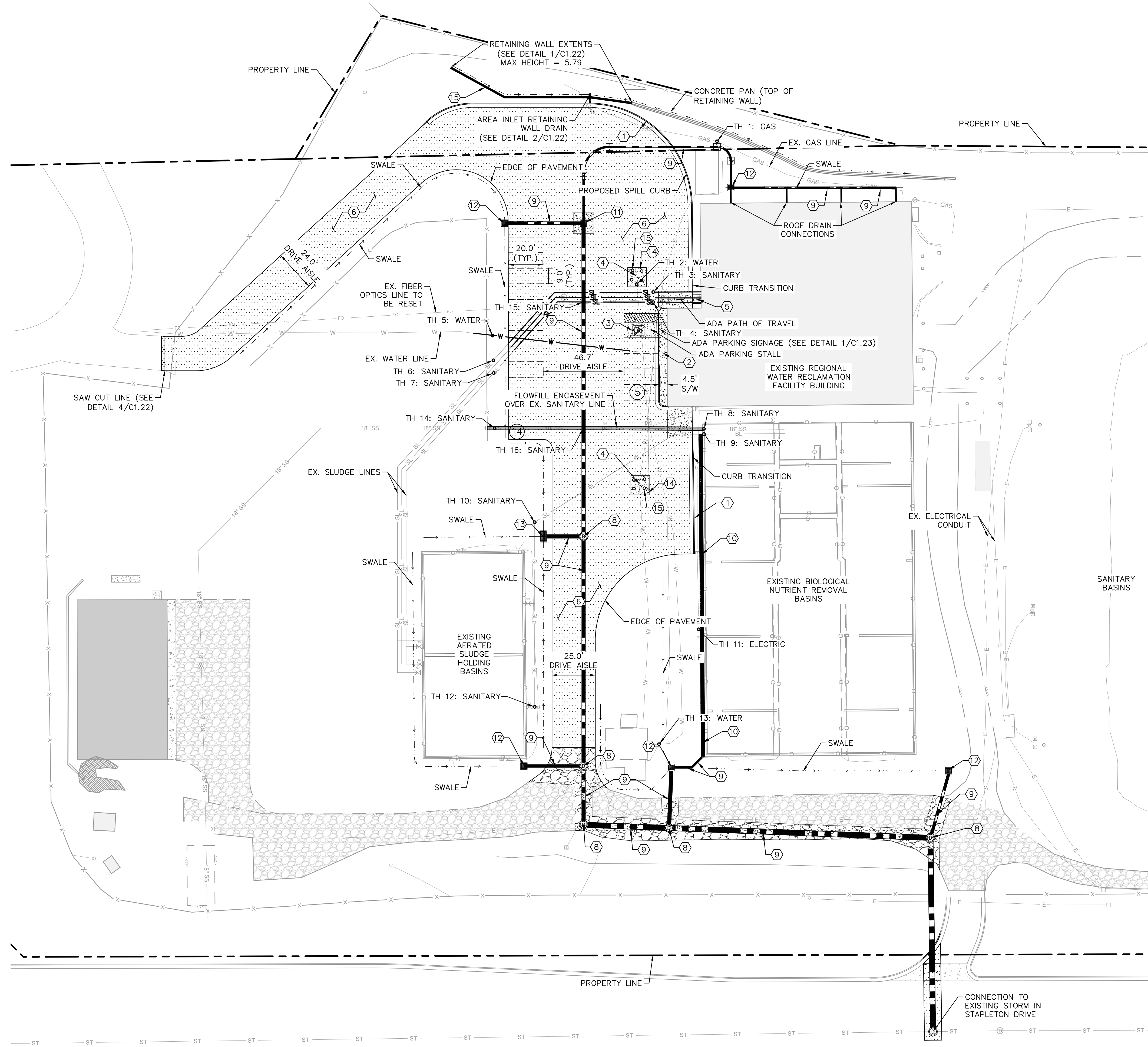
EX. CONDITIONS & DEMO PLAN

SHEET NUMBER
C1.4

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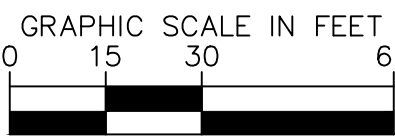
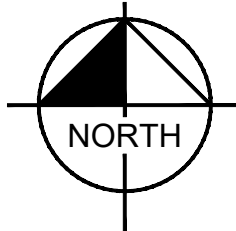
---	PROPERTY LINE
- - - - -	PARCEL LINE
x - - - - x	EXISTING SITE FENCE
W - - - - W	EXISTING WATER MAIN
18" SS	EXISTING 18" SANITARY LINE
SL	EXISTING SLUDGE LINE
FO	EXISTING FIBER OPTICS LINE
GAS	EXISTING GAS LINE
E	EXISTING ELECTRIC LINE
ST	EXISTING STORM SEWER
→ - - - - →	SWALE (REF. GRADING PLANS)
=====	MSE BLOCK RETAINING WALL
- - - - -	PARKING DELINEATION (NO STRIPING)
=====	SPILL CURB & GUTTER
[Pattern]	EXISTING GRAVEL DRIVE
[Pattern]	EXISTING CONCRETE SIDEWALK
[Pattern]	EXISTING CONCRETE PAN
[Pattern]	LANDSCAPING
[Pattern]	CONCRETE SIDEWALK/CONCRETE PAD
[Pattern]	ASPHALT DRIVE AREA
[Pattern]	FLOWFILL ENCASEMENT
[Pattern]	MILL & OVERLAY ASPHALT

POTHOLE LOG

DESCRIPTION	NORTHING	EASTING	DEPTH TO T/P	PIPE MATERIAL	PIPE SIZE
TH 1: GAS	1416227.7533	3257355.6836	41"	N/A	N/A
TH 2: WATER	1416145.2513	3257309.2266	62"	PVC DR18	6"
TH 3: SANITARY	1416140.6092	3257318.8413	96"	PVC SCHD 80	2.5"
TH 4: SANITARY	1416134.8170	3257318.8413	96"	PVC SCHD 80	2.5"
TH 5: WATER	1416115.4914	3257226.0692	64"	PVC DR18	8"
TH 6: SANITARY	1416101.2091	3257226.4627	96"	PVC SCHD 80	2.5"
TH 7: SANITARY	1416093.8783	3257226.6646	96"	PVC SCHD 80	2.5"
TH 8: SANITARY	1416061.6469	3257348.1179	21"	SDR 35 PVC	18"
TH 9: SANITARY	1416058.5664	3257348.1346	177"	C900 DR14 PVC	6"
TH 10: SANITARY	1416007.6798	3257250.3334	168"	C900 DR14 PVC	6"
TH 11: ELECTRIC	1415945.7593	3257345.1188	59"	N/A	N/A
TH 12: SANITARY	1415900.9503	3257250.3501	190"	C900 DR14 PVC	6"
TH 13: WATER	1415879.3922	3257322.1687	64"	POLY PIPE	2"
TH 14: SANITARY	1416062.0412	3257227.1412	42"	SDR 35 PVC	18"
TH 15: SANITARY	1416135.0083	3257278.5291	84"	PVC SCHD 80	2.5"
TH 16: SANITARY	1416062.0494	3257278.5653	39"	SDR 35 PVC	18"

KEYNOTES:

- PROPOSED EPC TYPE A SPILL CURB AND GUTTER PER EL PASO COUNTY STANDARD DRAWING 2-20 (REF SHEET C1.17 FOR DETAIL)
- PROPOSED CONCRETE SIDEWALK PER COLORADO SPRINGS STANDARD DRAWING D-18, DIMENSIONED PER PLAN
- PROPOSED ADA PARKING (REF. SHEET C1.23 FOR DETAIL)
- EXISTING HYDRANT TO BE RESET TO FINISHED GRADE
- PROPOSED TYPE 1 SIDEWALK CURB RAMP PER CITY OF COLORADO SPRINGS DRAWING D-8D (REF. SHEET C1.17 FOR DETAIL)
- PROPOSED ASPHALT PAVEMENT (SEE DETAIL 3/C1.22)
- PROPOSED STORM SEWER MANHOLE (REF. SHEETS C1.12 - C1.16 FOR SIZE AND MATERIAL)
- PROPOSED STORM SEWER PIPE (REF. SHEETS C1.12 - C1.16 FOR SIZE AND MATERIAL)
- PROPOSED FRENCH DRAIN (SEE DETAIL 5/C1.23)
- PROPOSED CDOT TYPE C INLET WITH CONCRETE APRON (REF. SHEET C1.18 FOR DETAIL)
- PROPOSED CDOT TYPE C AREA INLET (REF. SHEET C1.18 FOR DETAIL)
- PROPOSED CDOT TYPE D AREA INLET (REF. SHEET C1.18 FOR DETAIL)
- PROPOSED CONCRETE PAD
- PROPOSED RETAINING WALL (REF. GRADING PLAN FOR DETAILS)
- PROPOSED BOLLARD (SEE DETAIL 4/C1.23)



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**RWRF STORMWATER
IMPROVEMENTS
PREPARED FOR
WOODMEN HILLS
METROPOLITAN DISTRICT**

SITE PLAN

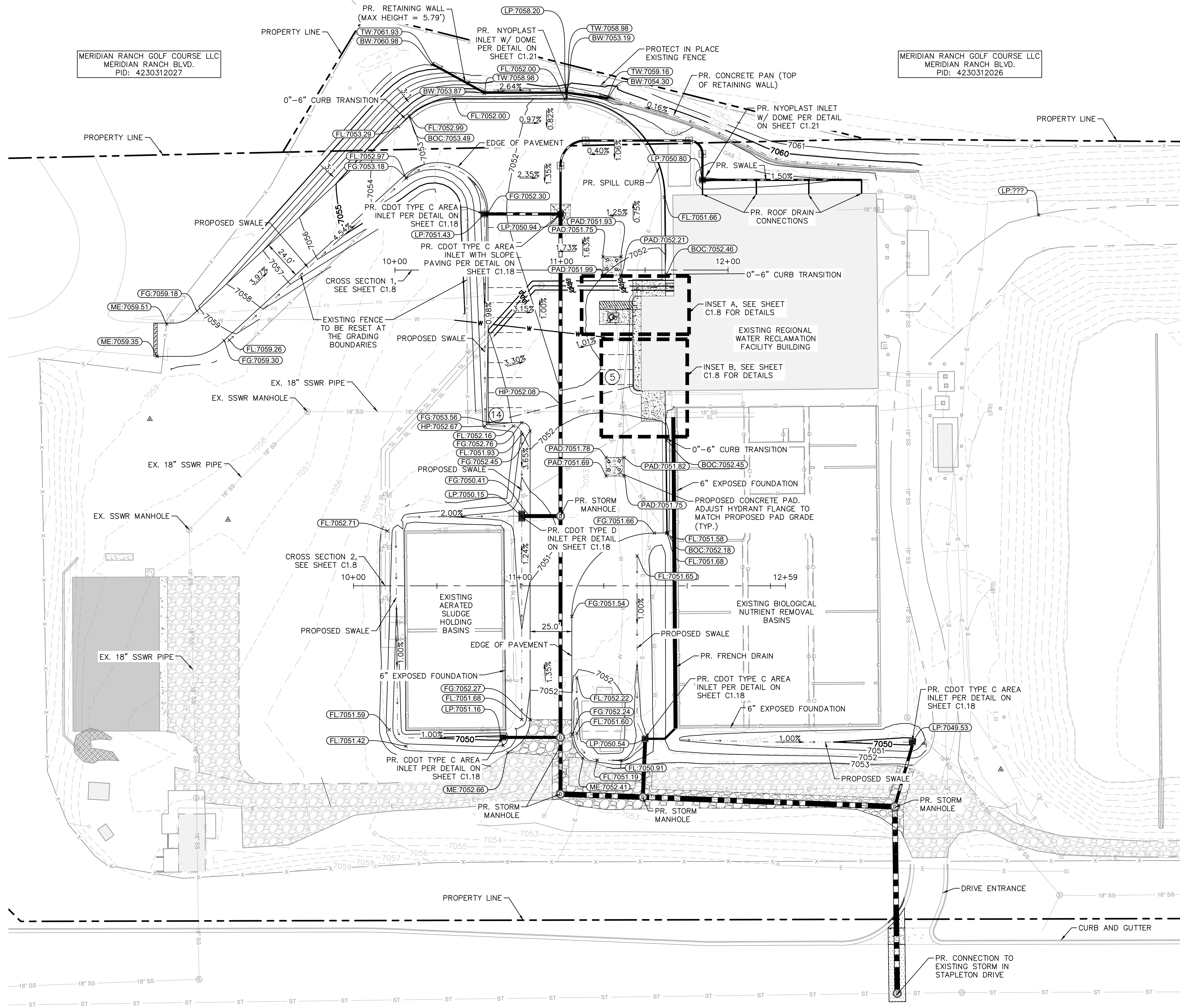
SHEET NUMBER
C1.5

PCD FILE NO.: CDR268



SHEET NUMBER C1.6	PAVING PLAN	RWRF STORMWATER IMPROVEMENTS PREPARED FOR WOODMEN HILLS METROPOLITAN DISTRICT	EL PASO COUNTY	COLORADO	KHA PROJECT 196013004 DATE 2025-08-10 SCALE AS SHOWN DESIGNED BY MEO DRAWN BY MEO CHECKED BY KRK	 © 2026 KIMLEY-HORN AND ASSOCIATES, INC. 2 N NEVADA AVE SUITE 900, COLORADO SPRINGS, CO 80903 PHONE: 719-453-0180 WWW.KIMLEY-HORN.COM REGISTRY No. 35106	No. _____ Revisions _____ By _____ Date _____
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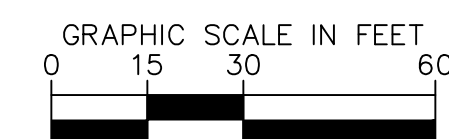
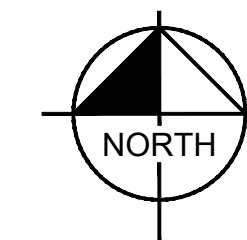


LEGEND

- SPILL CURB & GUTTER
- SWALE (REF. GRADING PLANS)
- MSE BLOCK RETAINING WALL
- INSET
- ASPHALT PAVEMENT
- CONCRETE SIDEWALK

ABBREVIATION LEGEND

- BW BOTTOM OF WALL AT FINISHED GRADE
- TW TOP OF WALL AT FINISHED GRADE
- FG FINISHED GRADE
- FL FLOWLINE
- LP LOW POINT
- HP HIGH POINT
- ME MATCH EXISTING
- BOC BACK OF CURB



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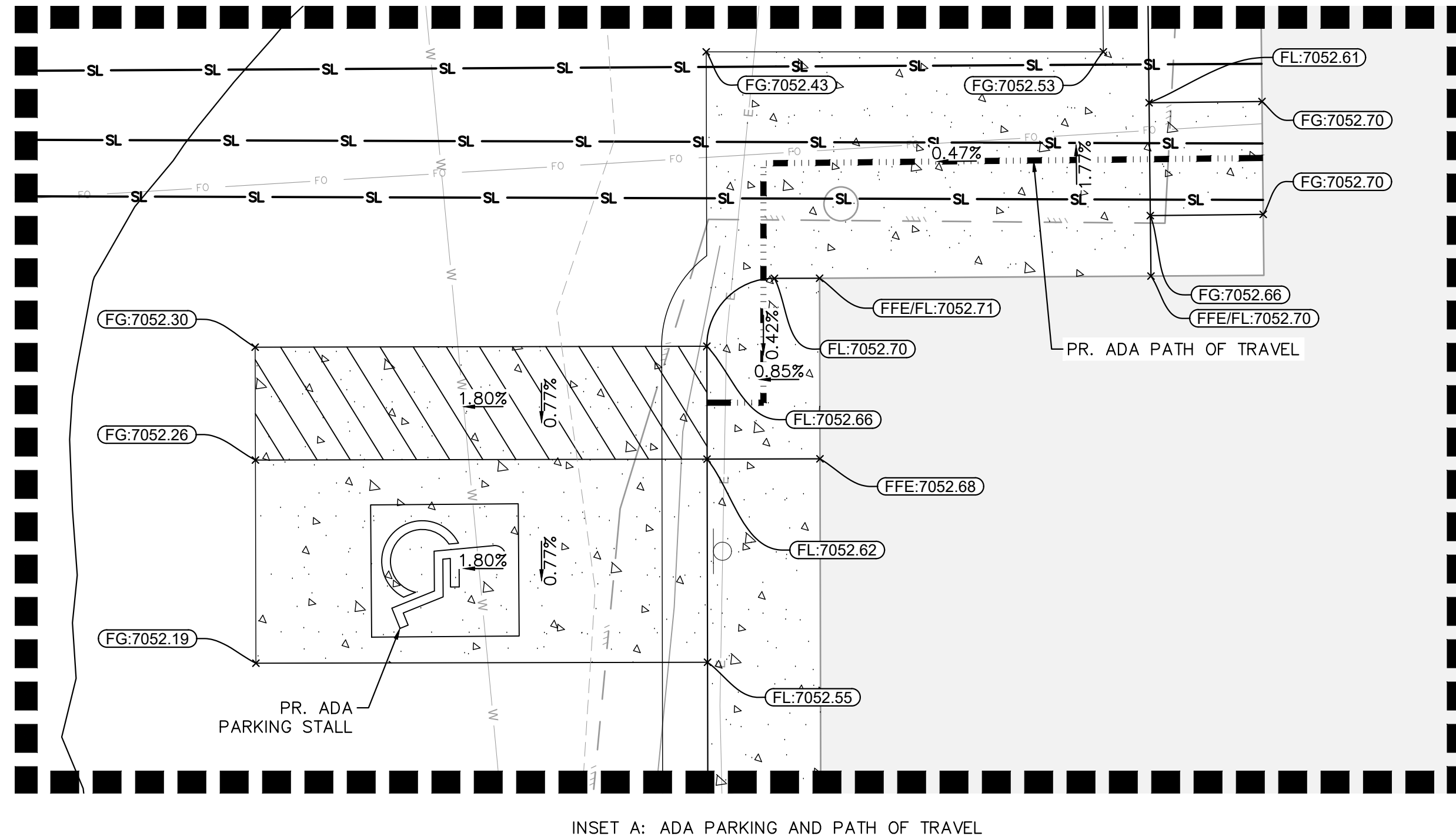
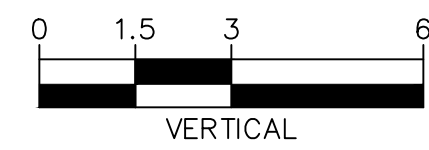
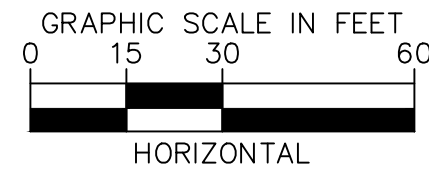
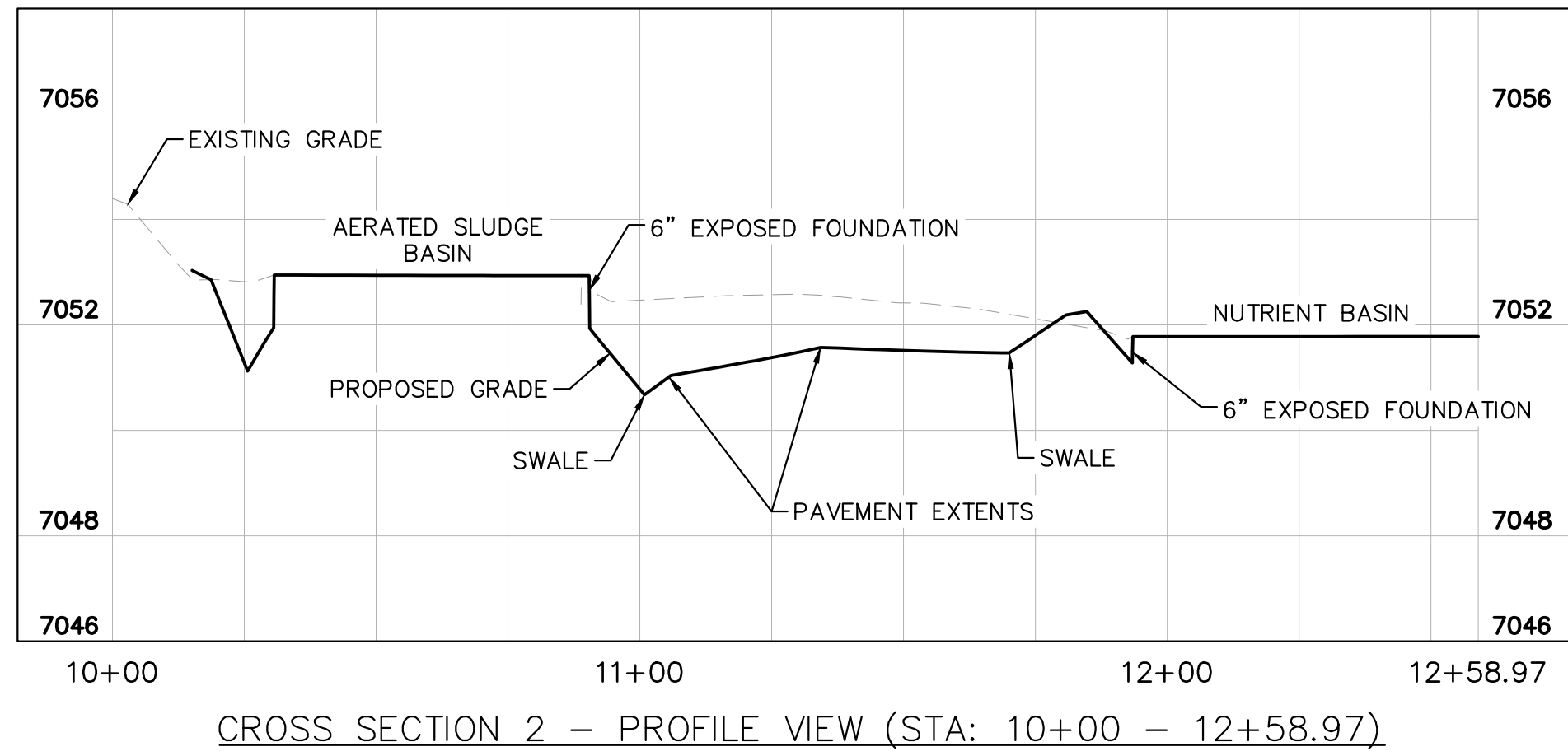
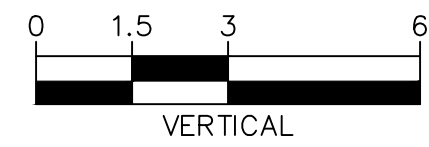
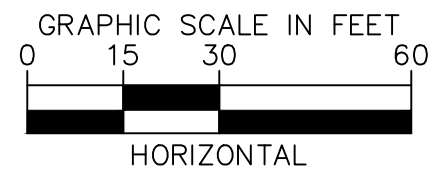
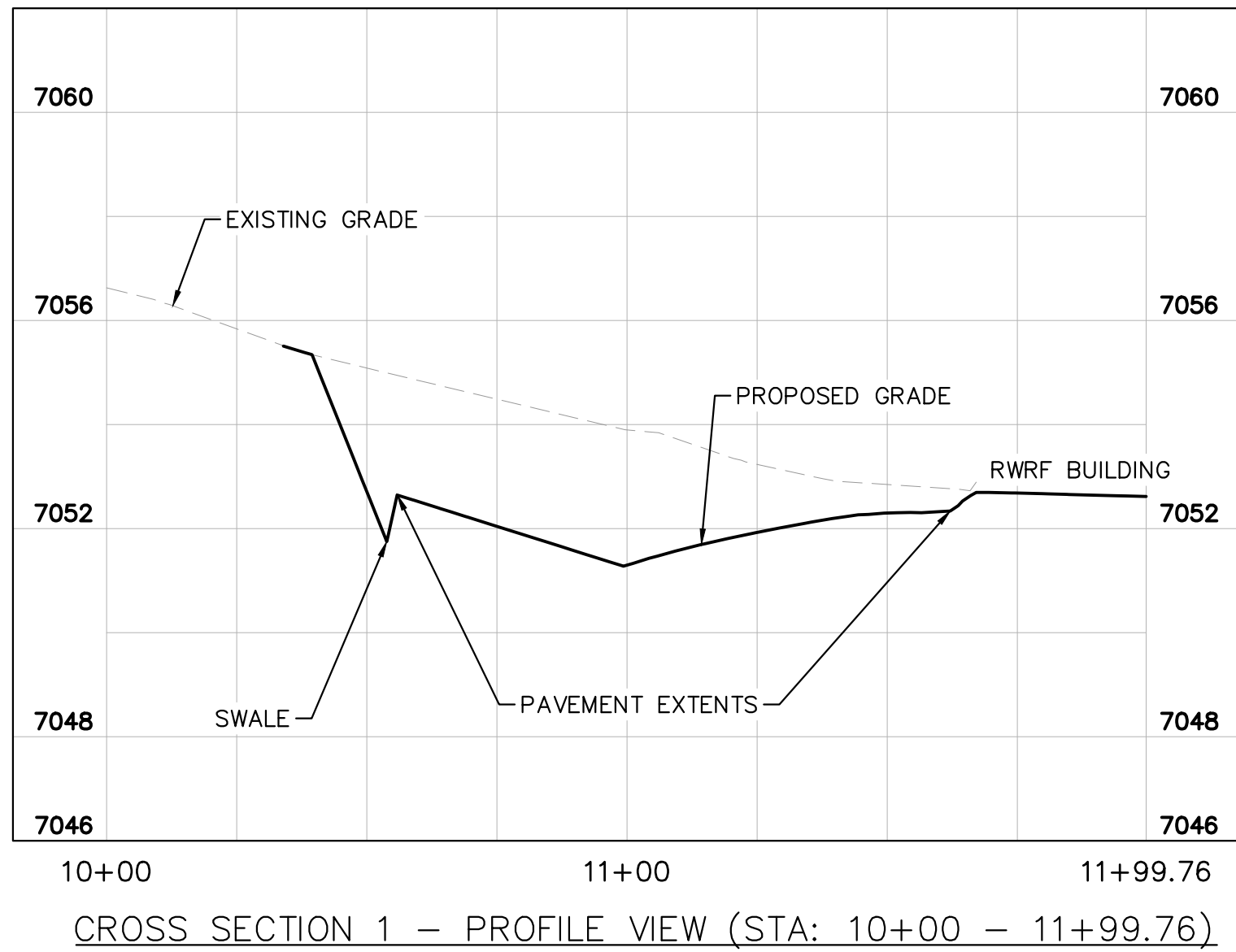
RWRF STORMWATER
IMPROVEMENTS
PREPARED FOR
WOODMEN HILLS
METROPOLITAN DISTRICT
EL PASO COUNTY
COLORADO

GRADING PLAN

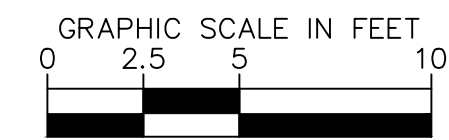
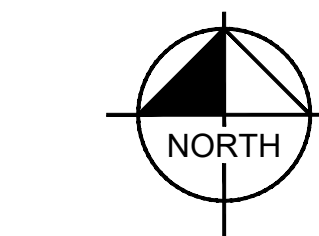
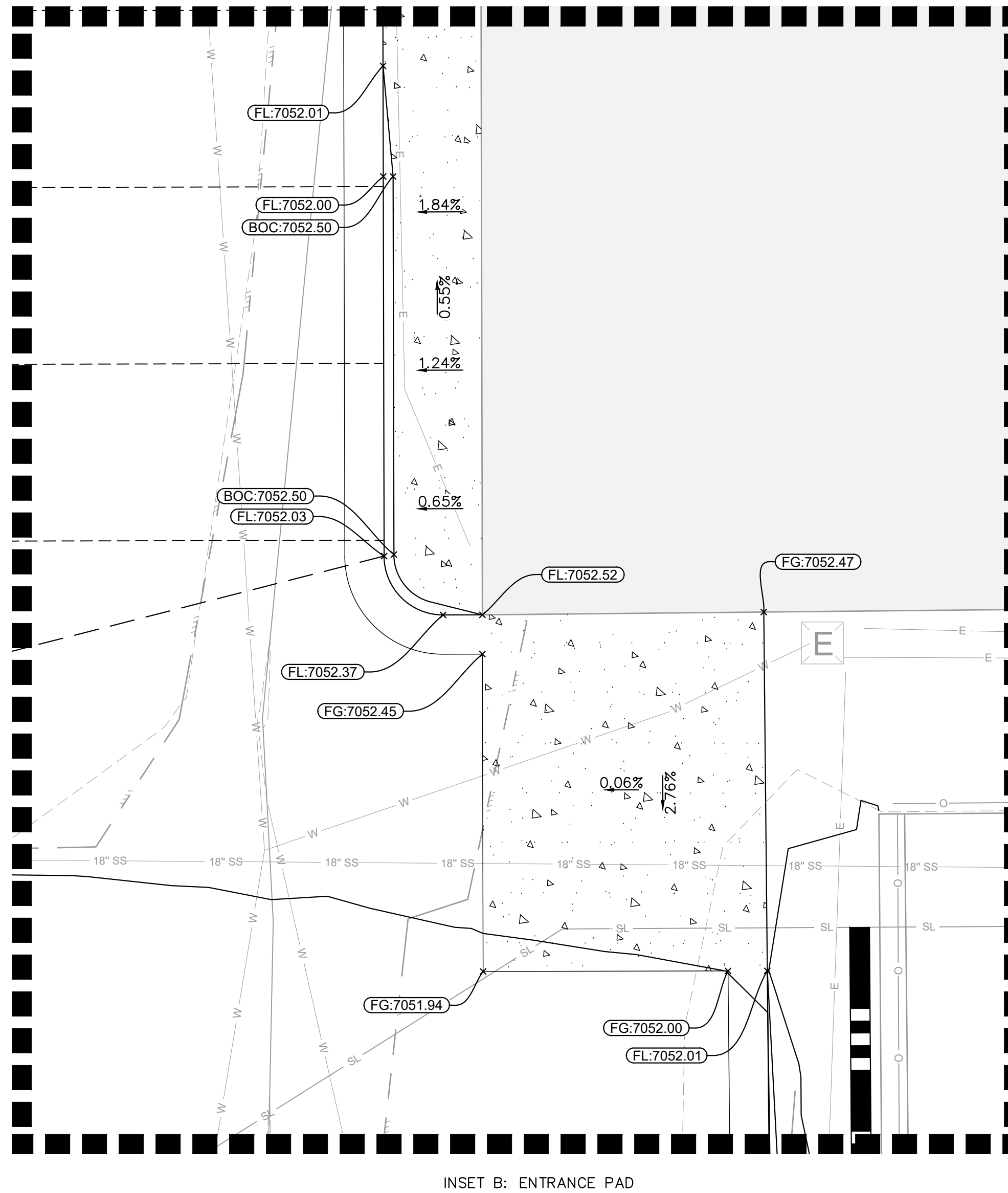
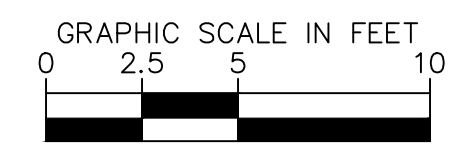
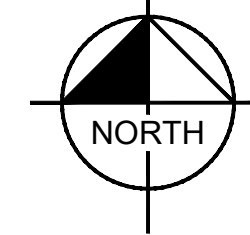
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- LEGEND**
- SPILL CURB & GUTTER
 - SWALE (REF. GRADING PLANS)
 - MSE BLOCK RETAINING WALL
 - ASPHALT PAVEMENT
 - CONCRETE SIDEWALK



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DATE	2026-08-10
SCALE	AS SHOWN
DESIGNED BY	MEG
DRAWN BY	MEG
CHECKED BY	KRK

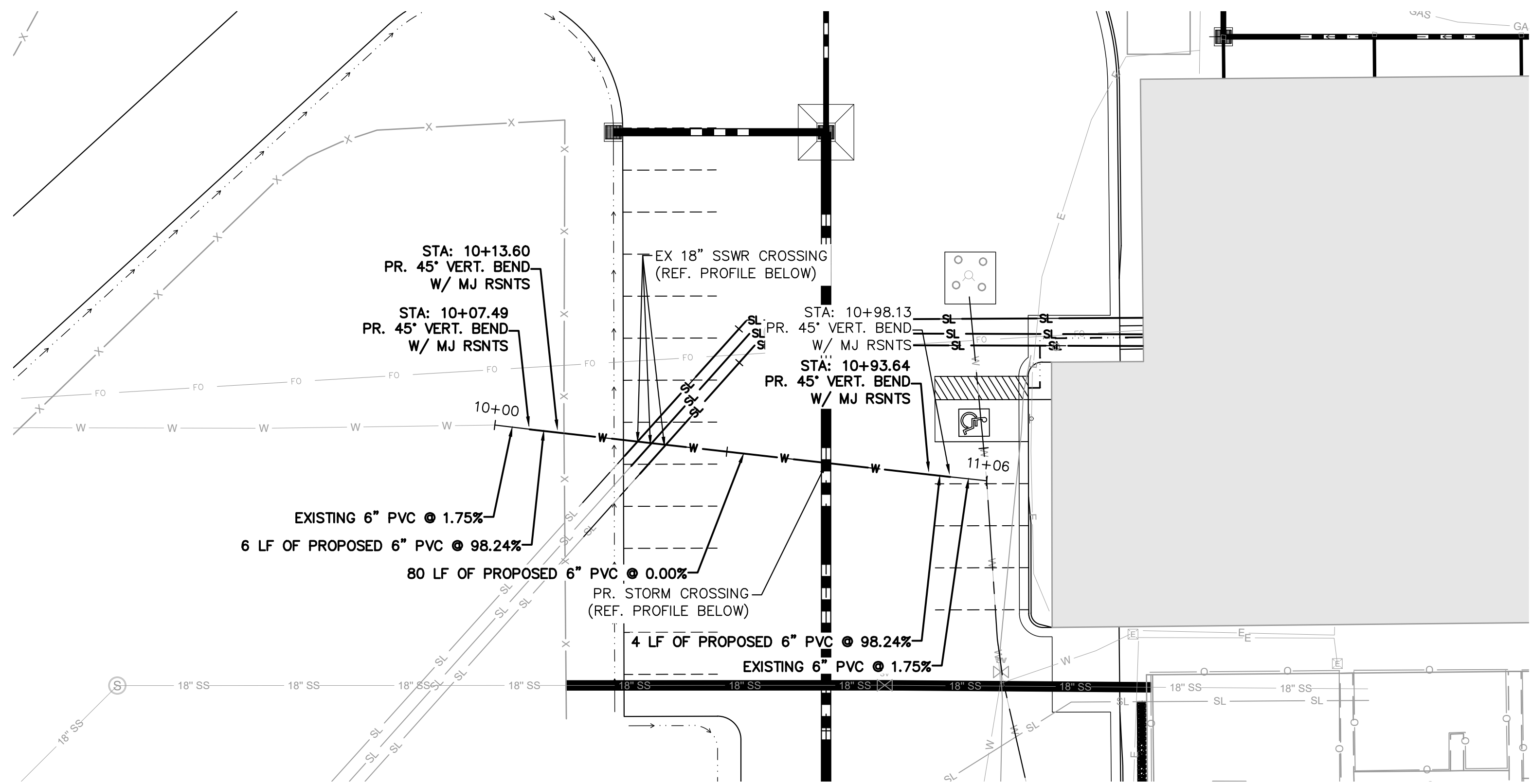
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COLORADO

CROSS SECTIONS & ADA INSET

SHEET NUMBER
C1.8

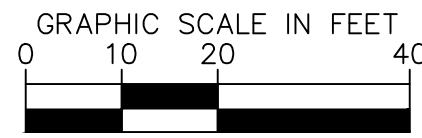
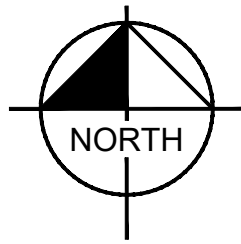
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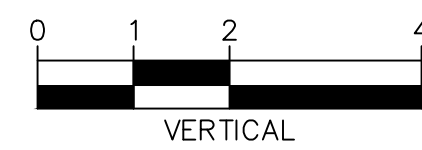
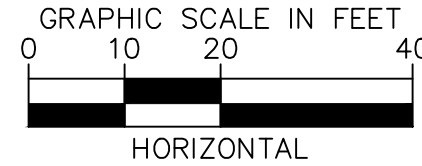
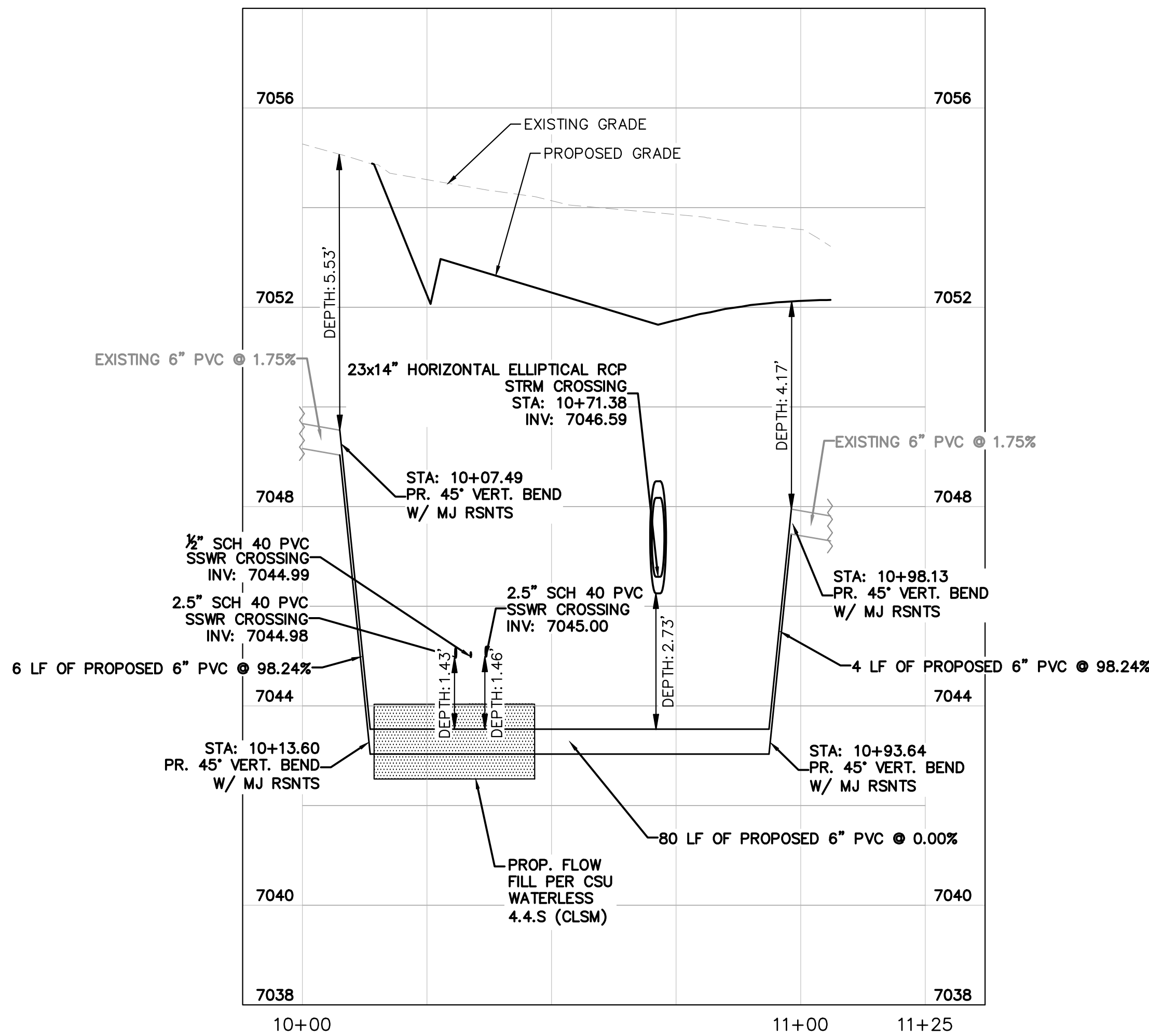


LEGEND

	PROPERTY LINE
	PARCEL LINE
	EXISTING SITE FENCE
	EXISTING WATER MAIN
	EXISTING 18" SANITARY LINE
	EXISTING SLUDGE LINE
	EXISTING FIBER OPTICS LINE
	EXISTING GAS LINE
	EXISTING ELECTRIC LINE
	EXISTING STORM SEWER
	PROPOSED SLUDGE LINE
	PROPOSED WATER LINE
	PROPOSED STORM LINE
	SWALE (REF. GRADING PLANS)
	MSE BLOCK RETAINING WALL
	PARKING DELINEATION (NO STRIPING)
	SPILL CURB & GUTTER



WATER LINE – PLAN VIEW (STA: 10+00 – 11+06)



WATER LINE – PROFILE VIEW (STA: 10+00 – 11+06)



Know what's below.
Call before you dig.

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RWRF STORMWATER
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PREPARED FOR

WOODMEN HILLS

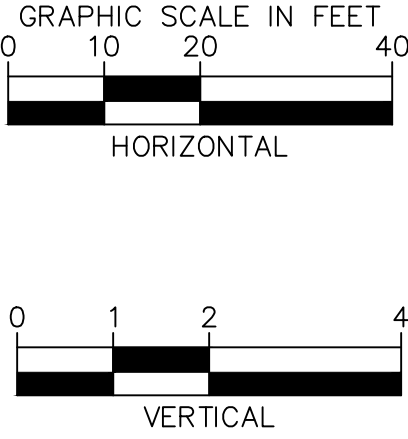
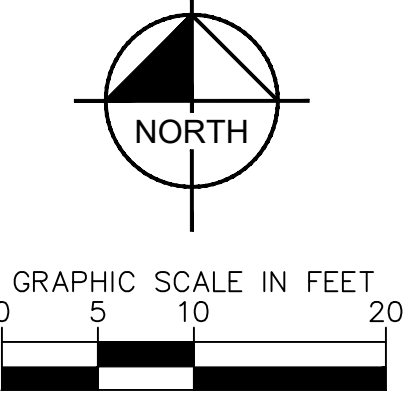
METROPOLITAN DISTRICT

EL PASO COUNTY

COLORADO

WATER LOWERING PLAN &
PROFILE

SHEET NUMBER
C1.9



SANITARY LOWERING 3 - PROFILE VIEW (STA: 10+00 - 11+38.39)

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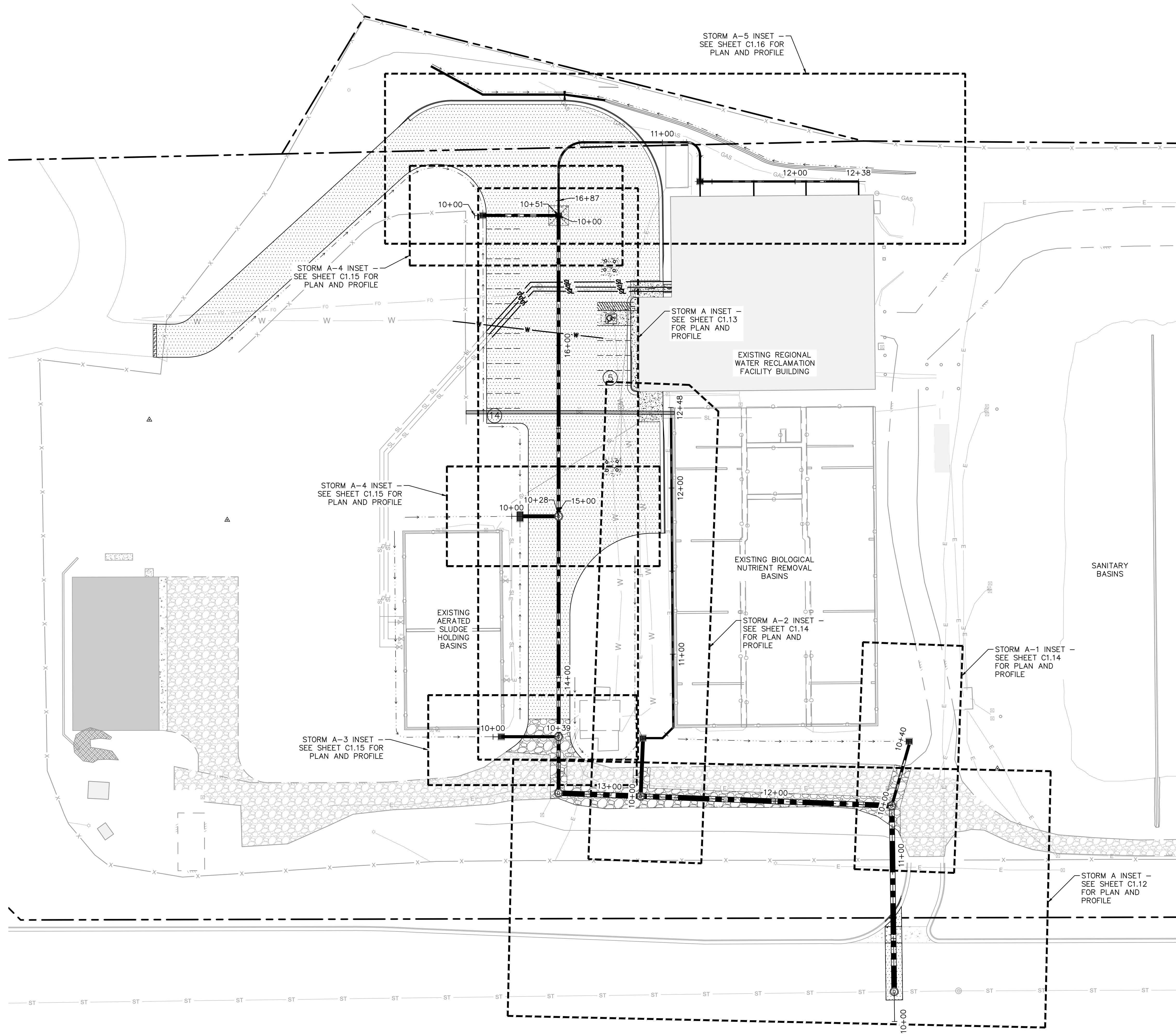
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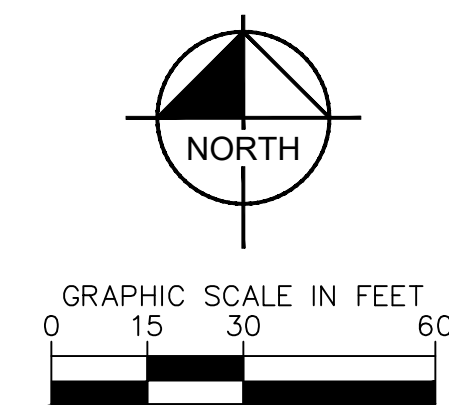
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LEGEND

- PROPOSED SPILL CURB & GUTTER
- PROPOSED SWALE (REF. GRADING PLANS)
- PROPOSED MSE BLOCK RETAINING WALL
- PROPERTY LINE



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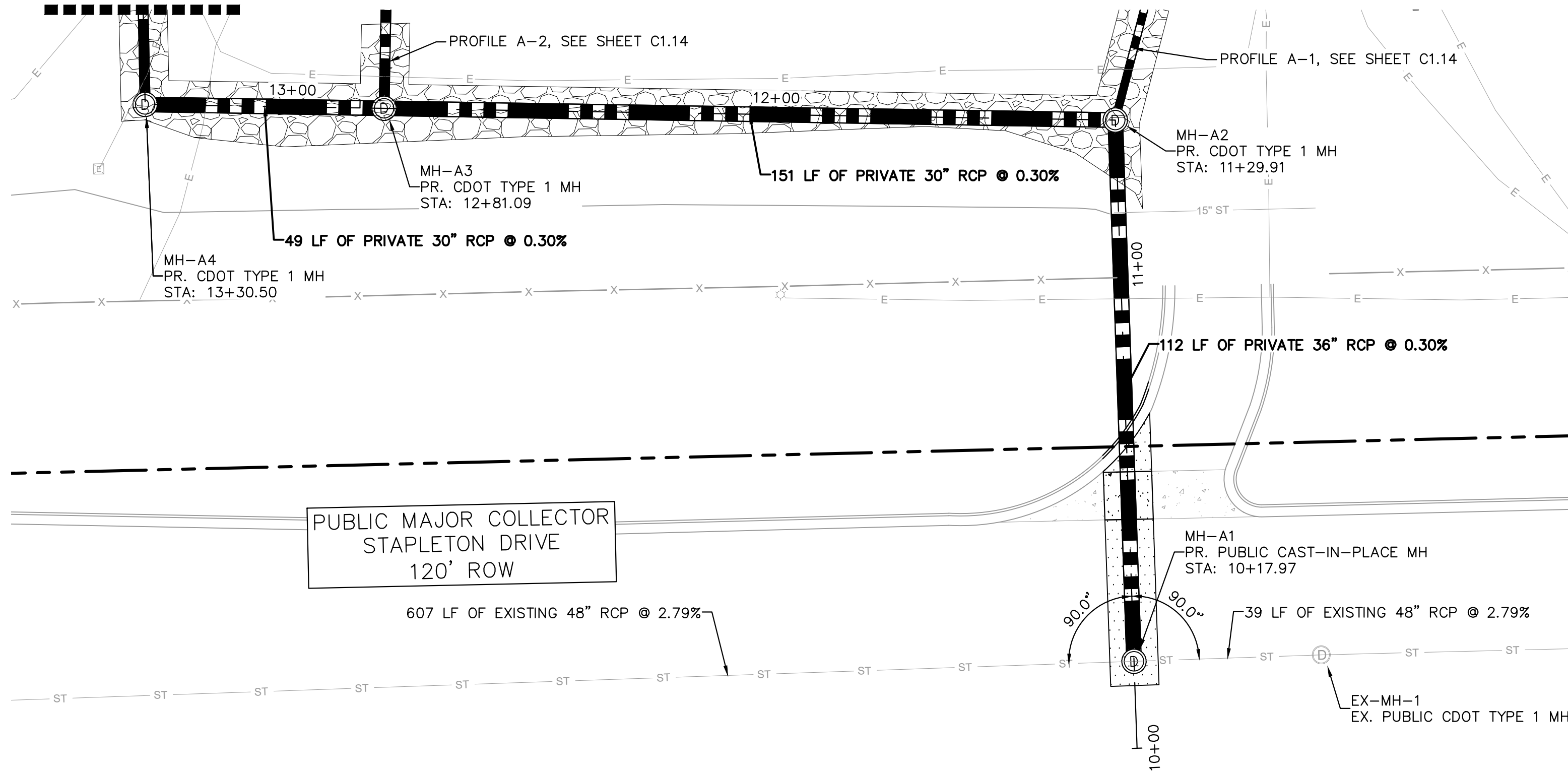
OVERALL STORM PLAN

SHEET NUMBER
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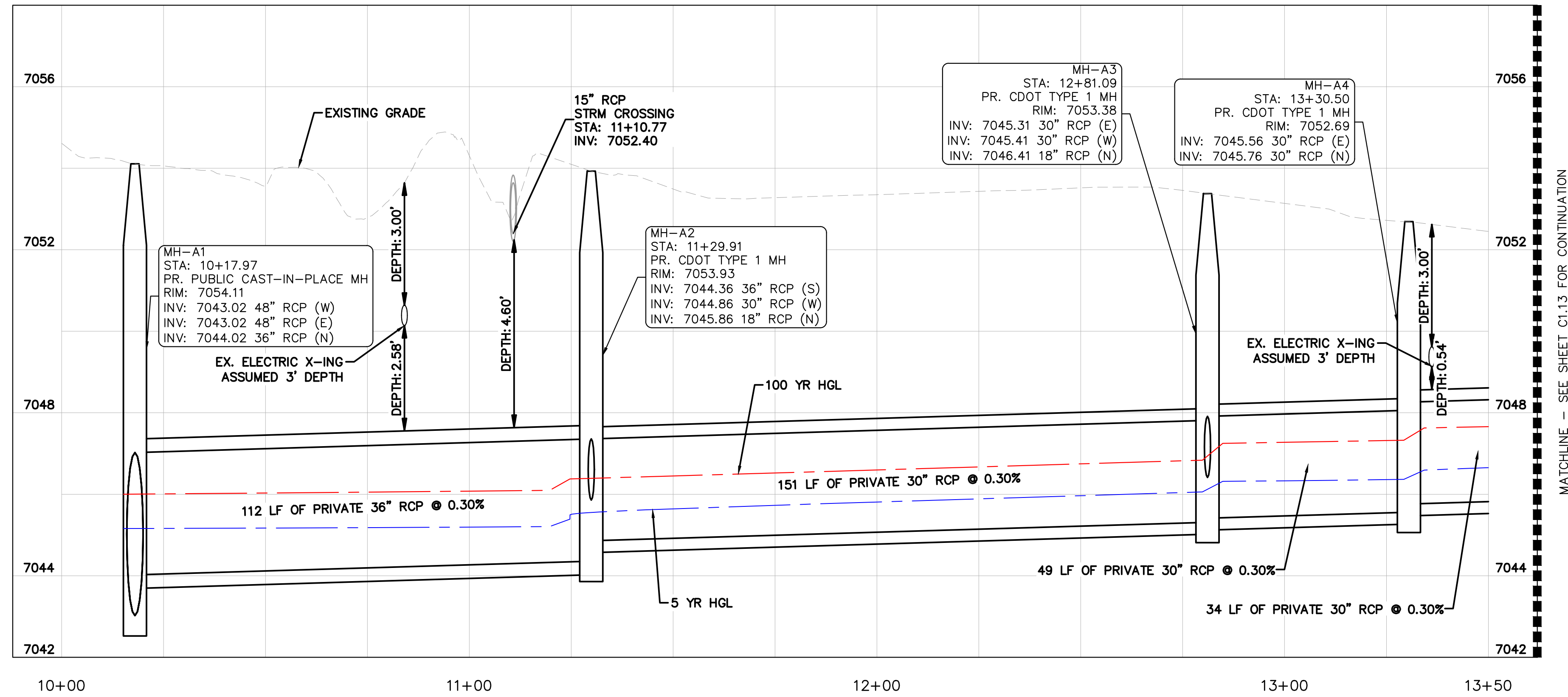
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MATCHLINE - SEE SHEET C1.13 FOR CONTINUATION



STORM LINE A - PLAN VIEW (STA: 10+00 - 13+50)



STORM LINE A - PROFILE VIEW (STA: 10+00 - 13+50)

LEGEND

	PROPERTY LINE
	EASEMENT LINE
	SETBACK LINE
	PROPOSED SANITARY LINE
	PROPOSED STORM LINE
	PROPOSED FIRE LINE
	PROPOSED WATER LINE
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING ELECTRIC LINE
	EXISTING STORM LINE
	5-YR DESIGN STORM HGL
	100-YR DESIGN STORM HGL

NOTES

1. ALL PROPOSED STORM INFRASTRUCTURE IS TO BE CONSIDERED PRIVATE UNLESS OTHERWISE NOTED.
2. PIPE BEDDING MATERIAL PER WHMD STANDARD SPECIFICATION 3.3

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KHA PROJECT	196013004
DATE	2026-08-10
SCALE	AS SHOWN
DESIGNED BY	MEG
DRAWN BY	MEG
CHECKED BY	KRK

RWRF STORMWATER
IMPROVEMENTS
PREPARED FOR
WOODMEN HILLS
METROPOLITAN DISTRICT
EL PASO COUNTY
COLORADO

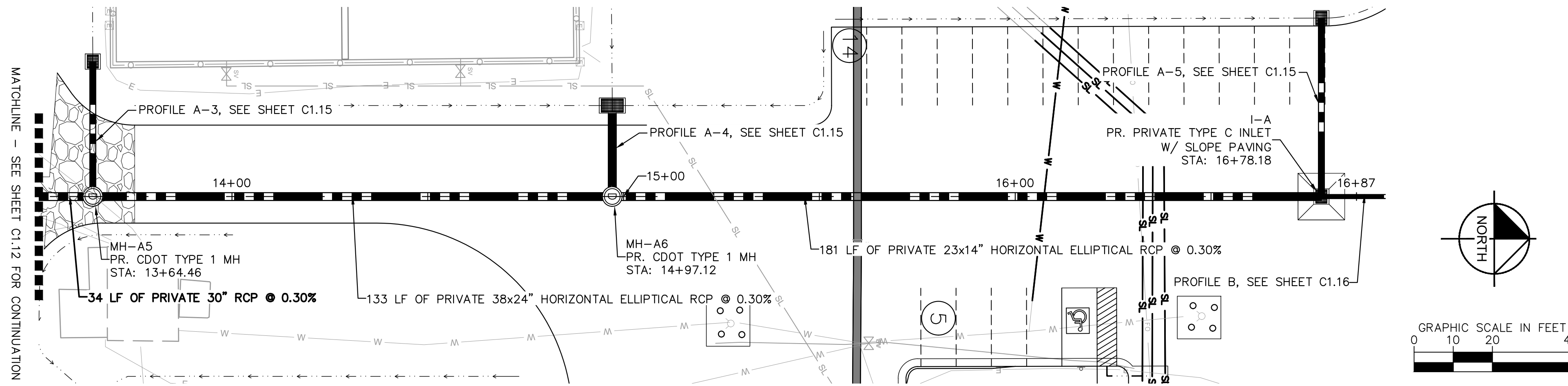
STORM PLAN AND PROFILE

SHEET NUMBER
C1.12



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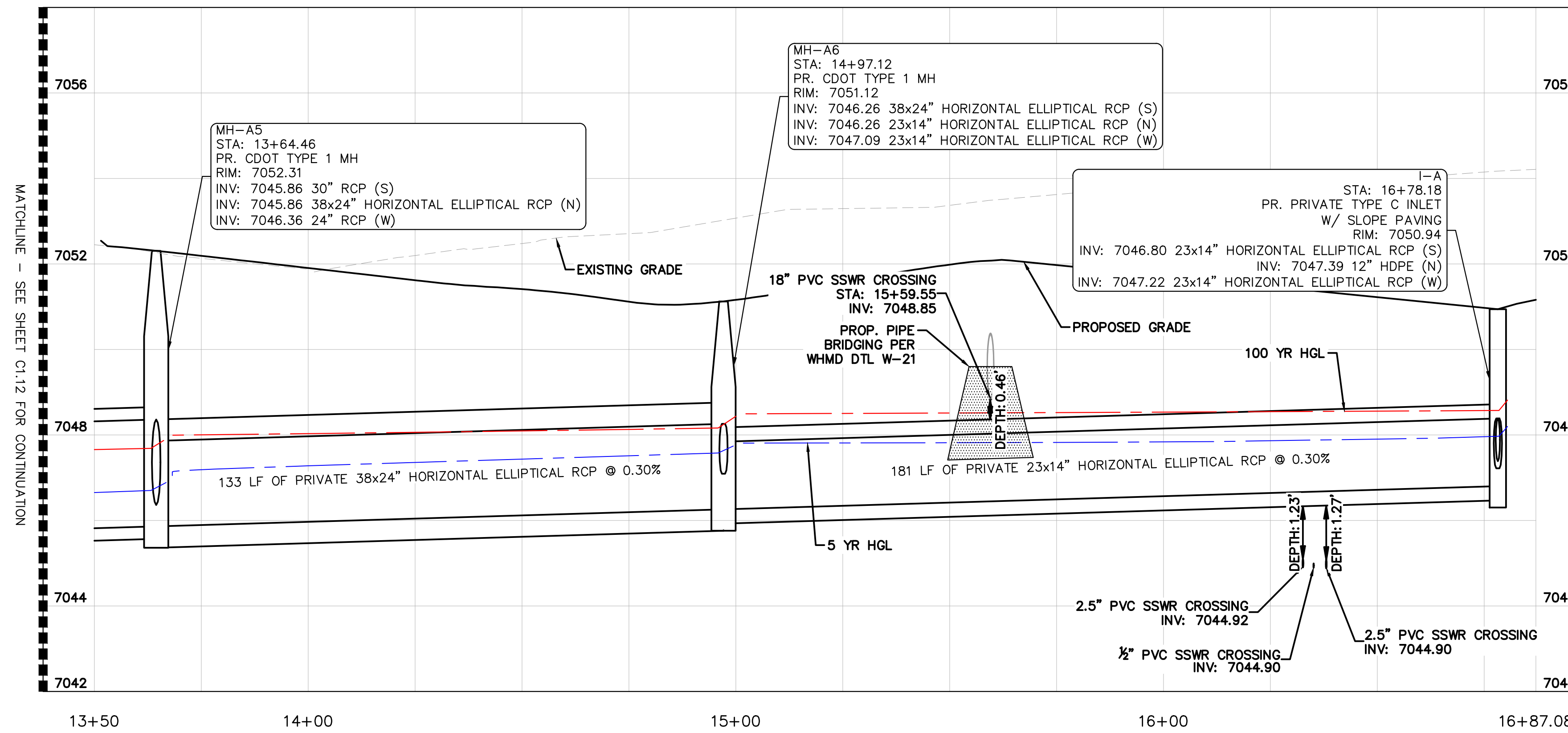
STORM LINE A - PLAN VIEW

LEGEND

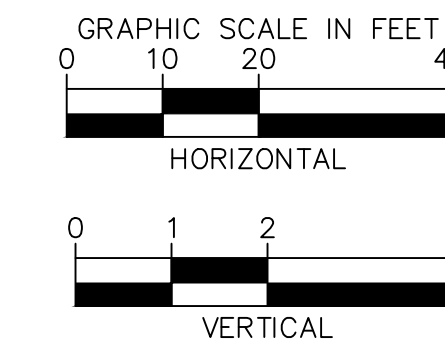
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	EASEMENT LINE
	SETBACK LINE
	PROPOSED SANITARY LINE
	PROPOSED STORM LINE
	PROPOSED WATER LINE
	PROPOSED FIRE LINE
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING ELECTRIC LINE
	EXISTING STORM LINE
	5-YR DESIGN STORM HGL
	100-YR DESIGN STORM HGL

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STORM LINE A - PROFILE VIEW



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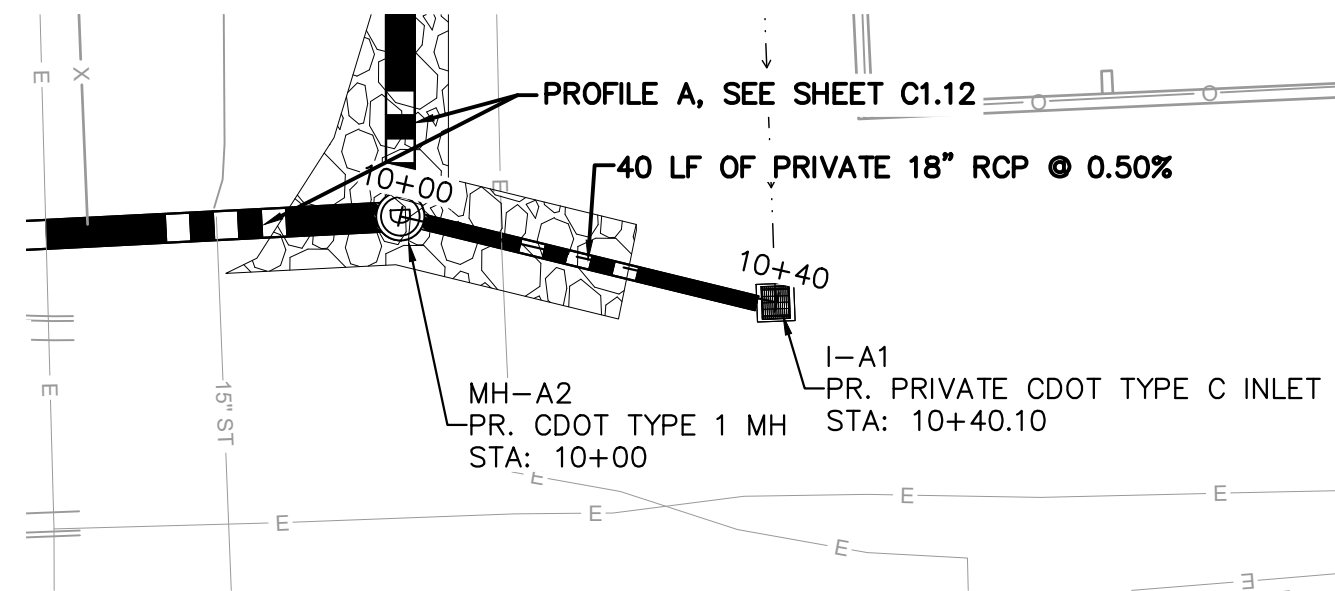
KHA PROJECT 196013004	DATE 2026-08-10	SCALE AS SHOWN	DESIGNED BY MEG	DRAWN BY MEG	CHECKED BY KHK
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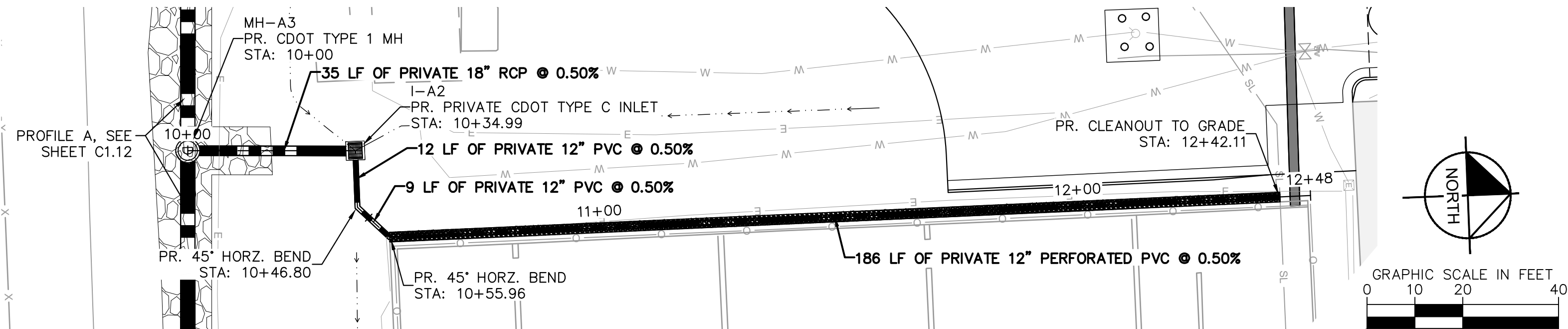
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SHEET NUMBER
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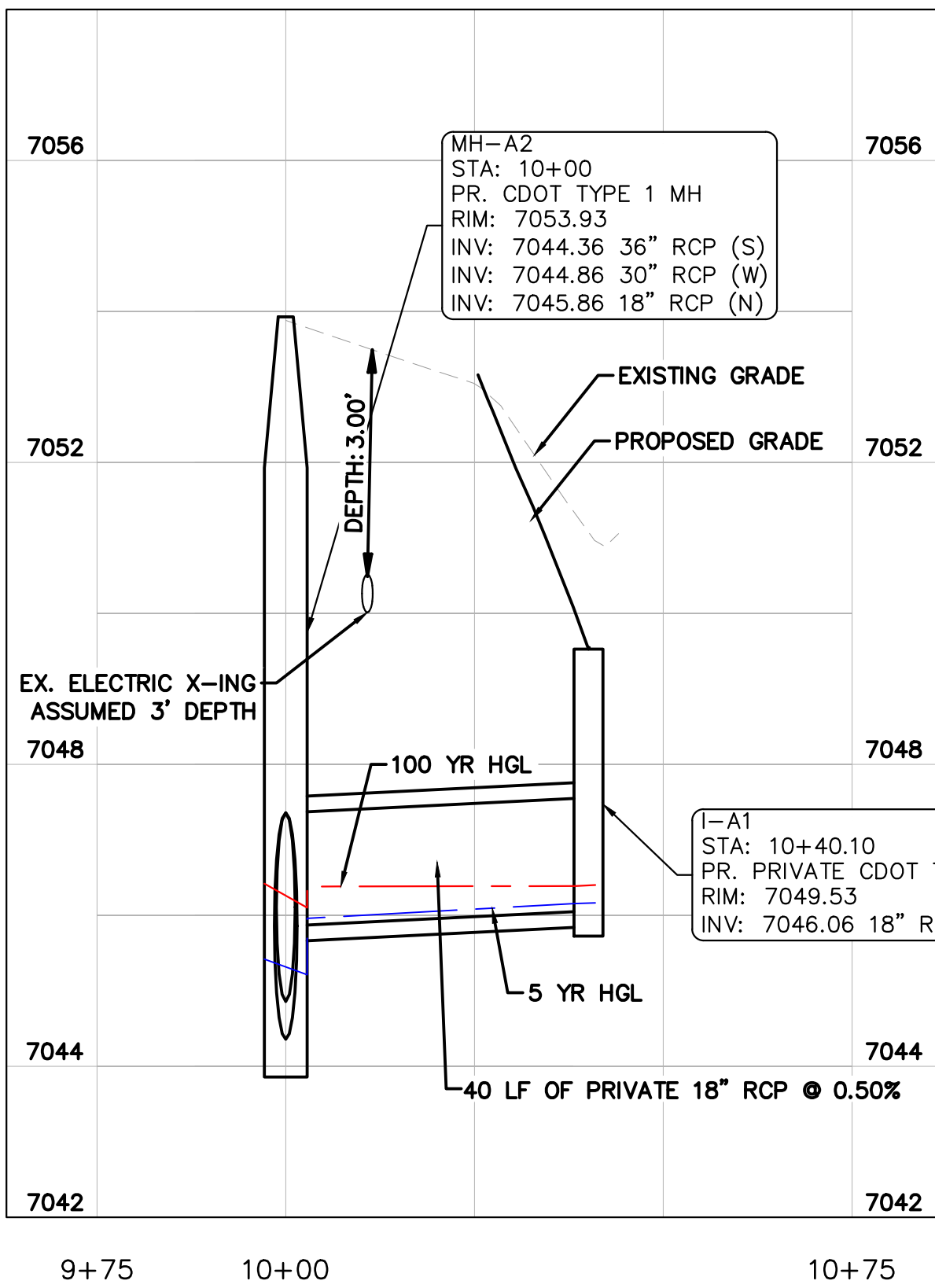
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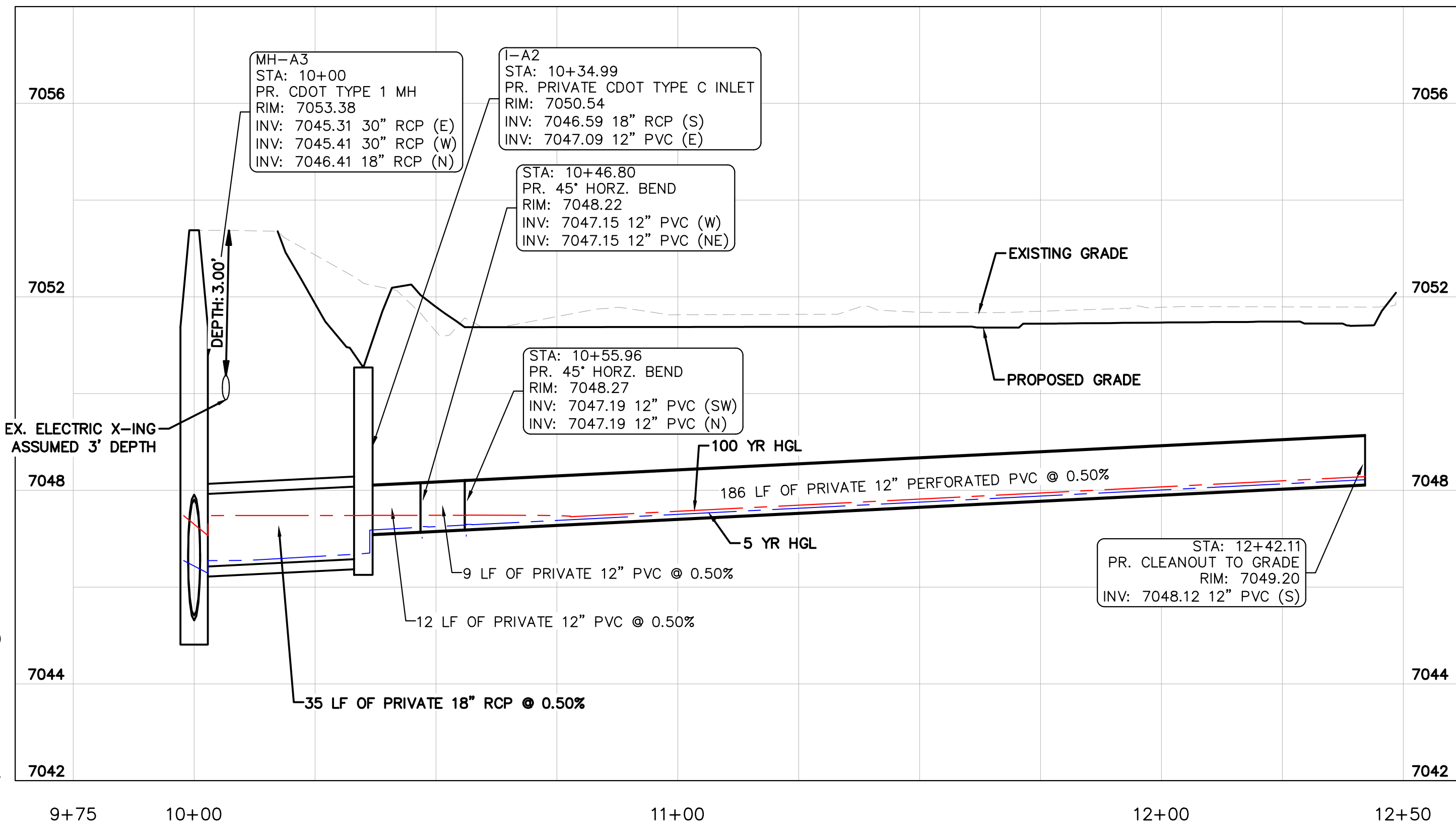
STORM LINE A.1 - PLAN VIEW



STORM LINE A.2 - PLAN VIEW



STORM LINE A.1 - PROFILE VIEW



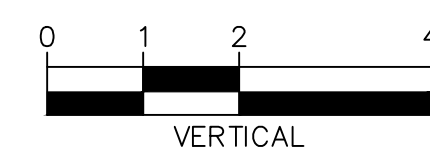
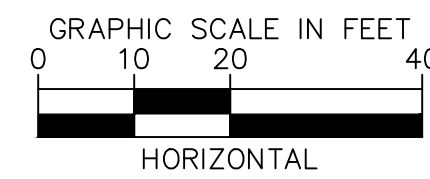
STORM LINE A.2 - PROFILE VIEW

LEGEND

---	PROPERTY LINE
---	EASEMENT LINE
---	SETBACK LINE
---	PROPOSED SANITARY LINE
---	PROPOSED STORM LINE
---	PROPOSED WATER LINE
---	PROPOSED FIRE LINE
---	EXISTING GAS LINE
---	EXISTING WATER LINE
---	EXISTING ELECTRIC LINE
---	EXISTING STORM LINE
---	5-YR DESIGN STORM HGL
---	100-YR DESIGN STORM HGL

NOTES

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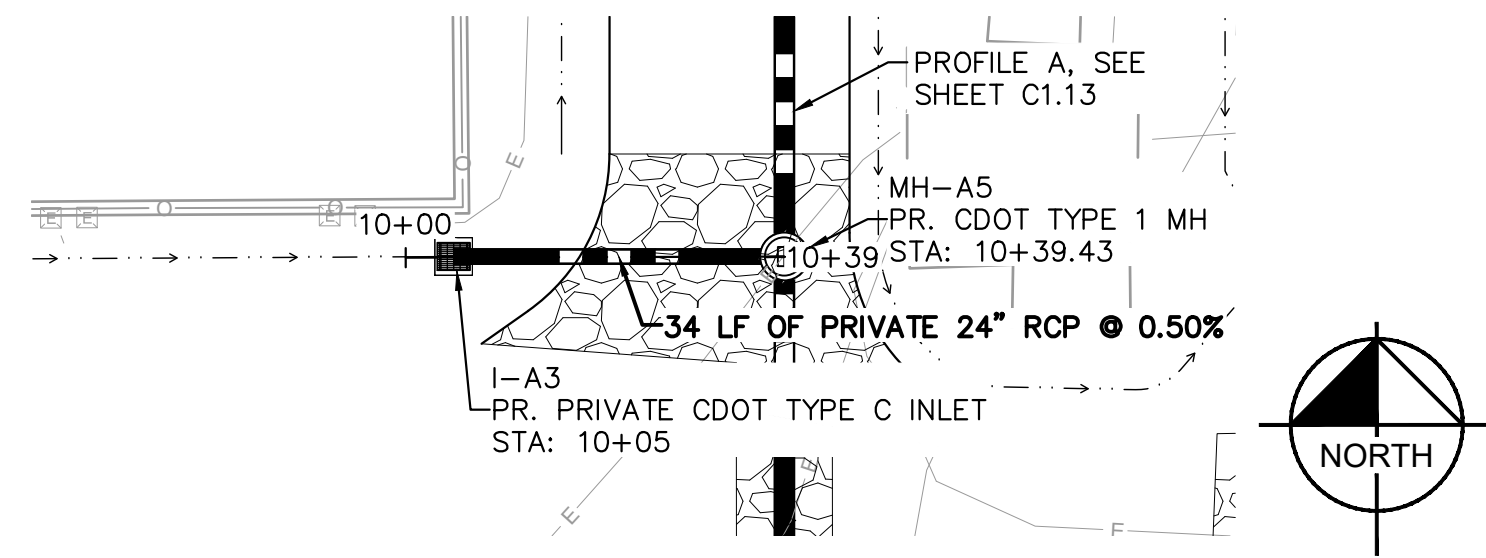
KHA PROJECT	196013004
DATE	2026-08-10
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CHECKED BY	KRK

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IMPROVEMENTS
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WOODMEN HILLS
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EL PASO COUNTY
COLORADO

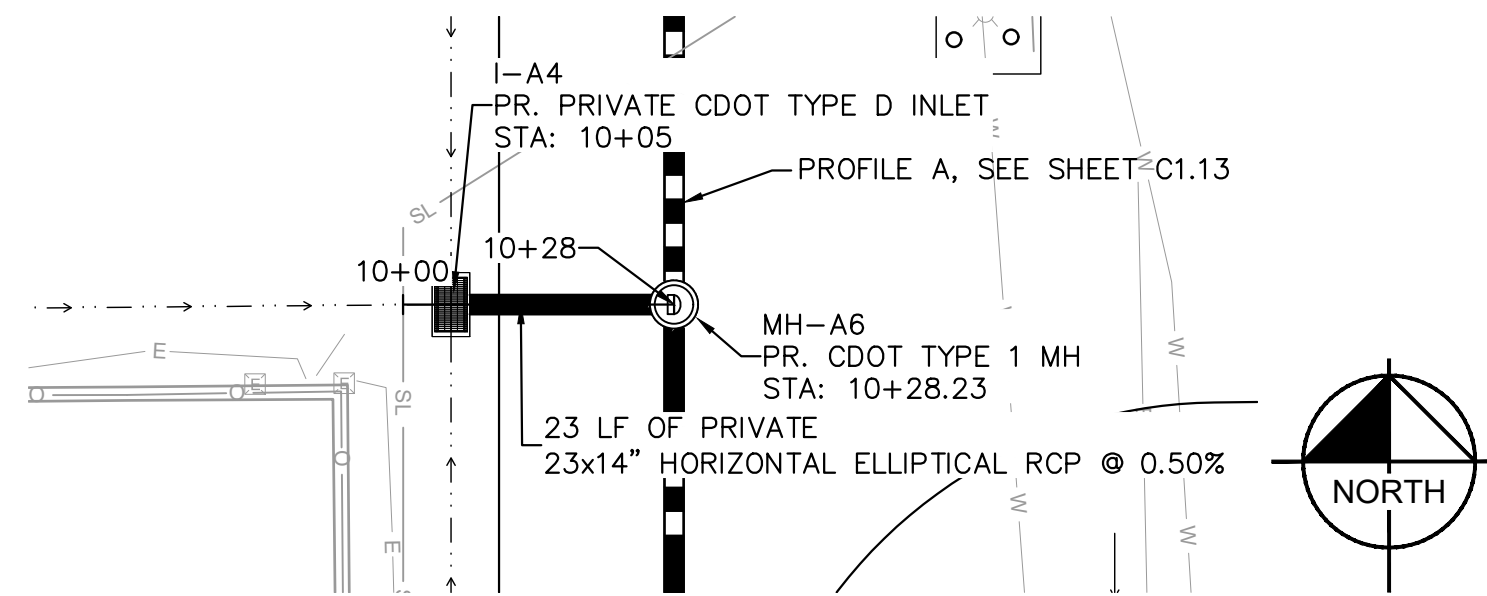
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SHEET NUMBER
C1.14

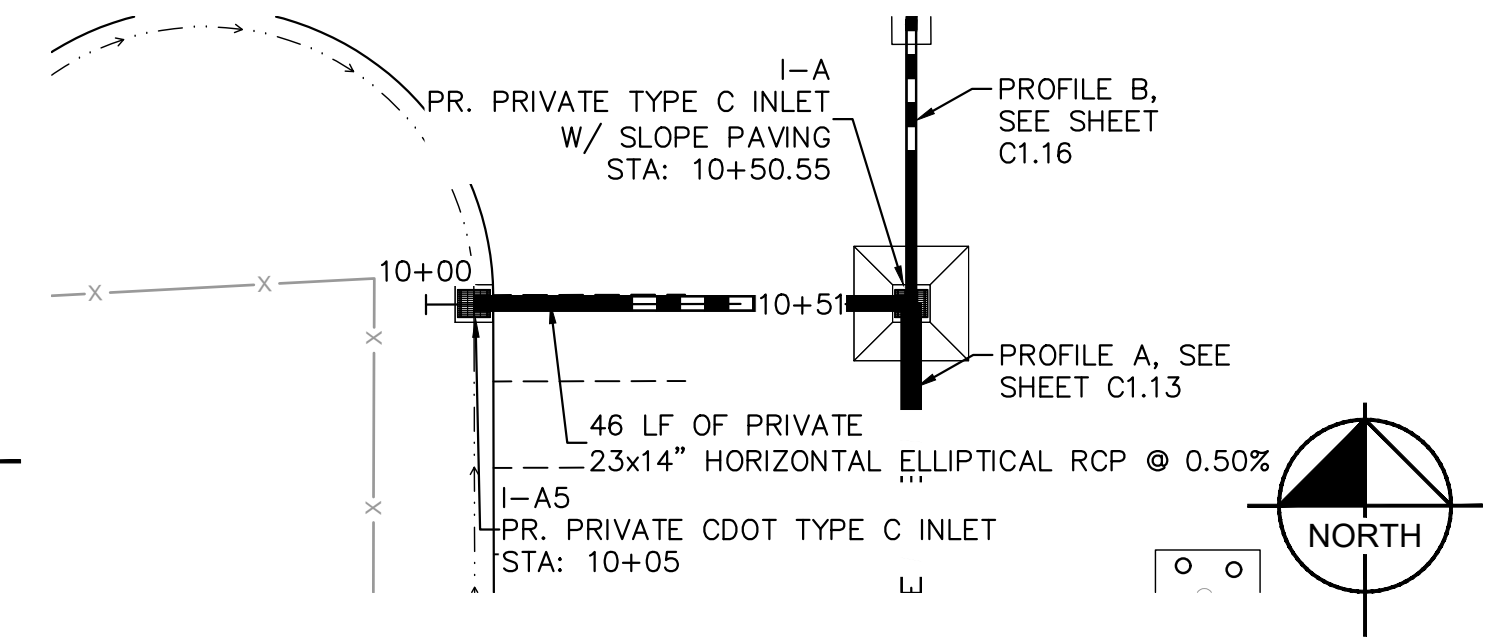
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STORM LINE A.3 - PLAN VIEW

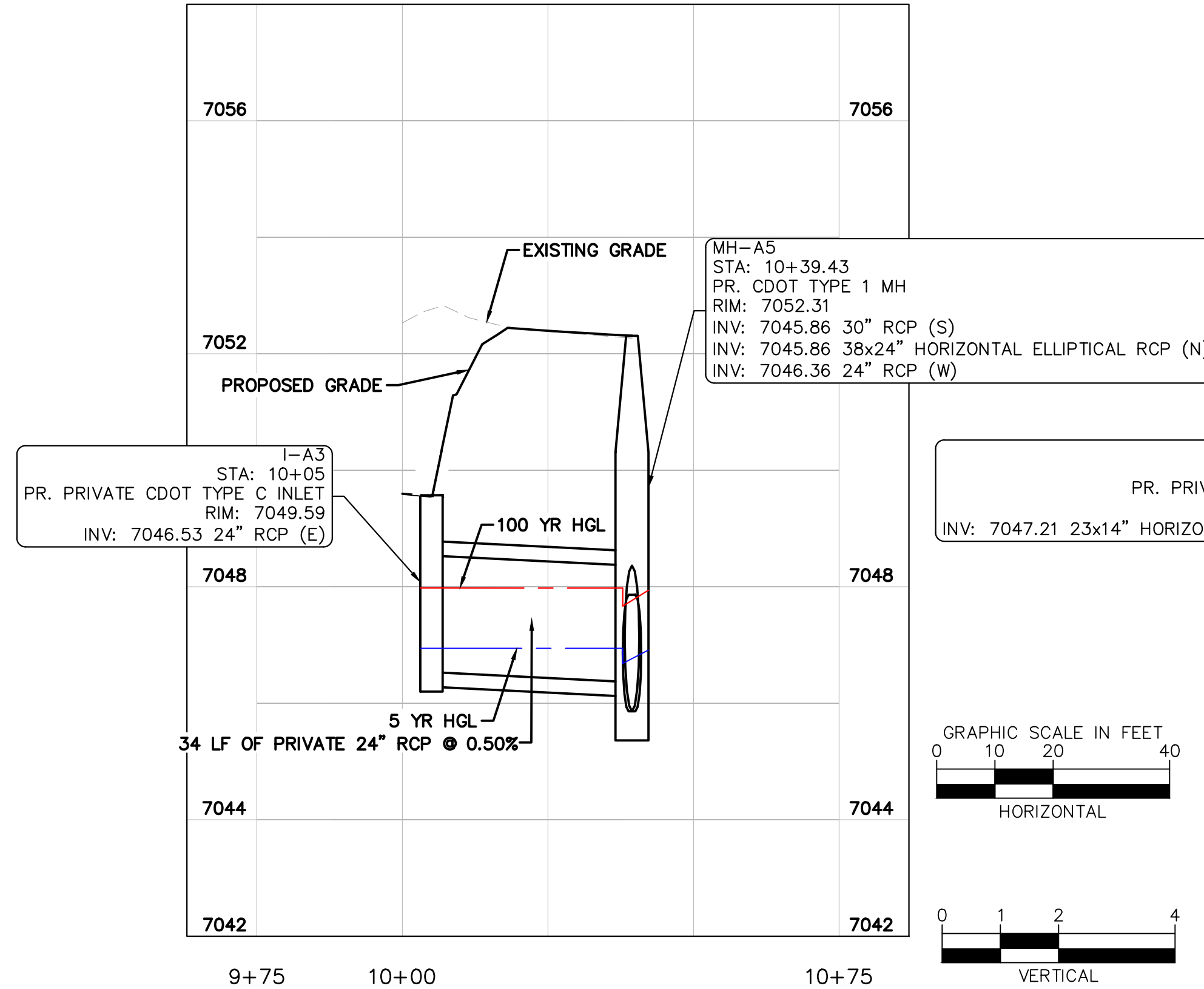


STORM LINE A.4 - PLAN VIEW

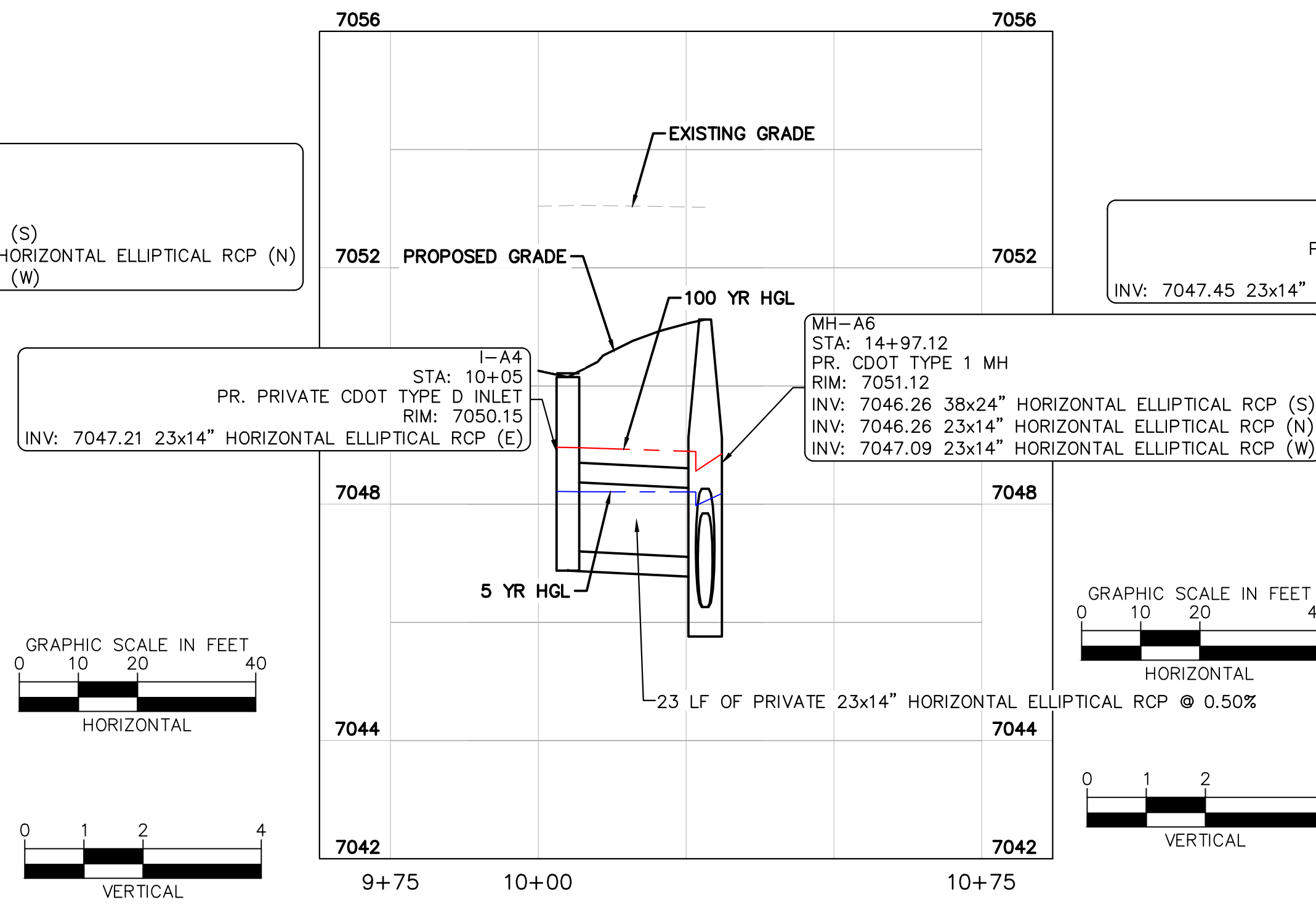


STORM LINE A.5 - PLAN VIEW

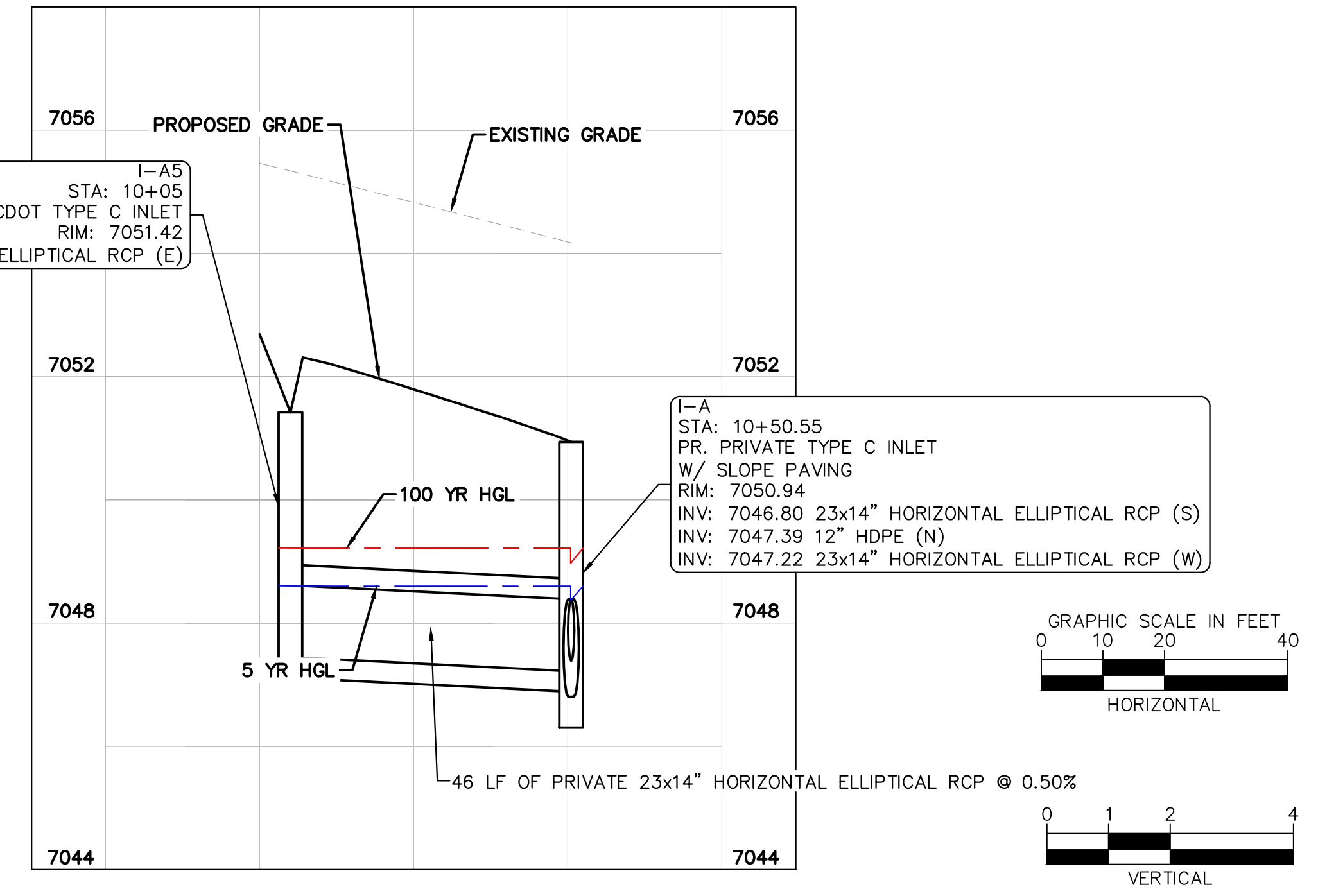
- LEGEND**
- PROPERTY LINE
 - EASEMENT LINE
 - SETBACK LINE
 - PROPOSED SANITARY LINE
 - PROPOSED STORM LINE
 - PROPOSED WATER LINE
 - PROPOSED FIRE LINE
 - EXISTING GAS LINE
 - EXISTING WATER LINE
 - EXISTING ELECTRIC LINE
 - EXISTING STORM LINE
 - 5-YR DESIGN STORM HGL
 - 100-YR DESIGN STORM HGL
- NOTES**
- ALL PROPOSED STORM INFRASTRUCTURE IS TO BE CONSIDERED PRIVATE UNLESS OTHERWISE NOTED.
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STORM LINE A.3 - PROFILE VIEW



STORM LINE A.4 - PROFILE VIEW



STORM LINE A.5 - PROFILE VIEW



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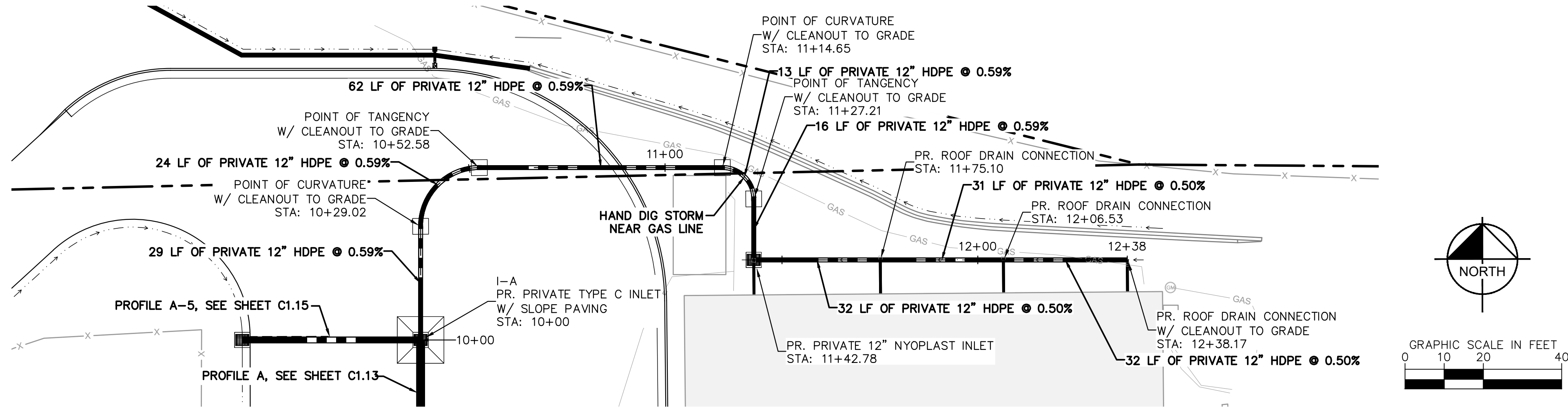
RWRF STORMWATER
IMPROVEMENTS
PREPARED FOR
WOODMEN HILLS
METROPOLITAN DISTRICT
EL PASO COUNTY

STORM PLAN AND PROFILE

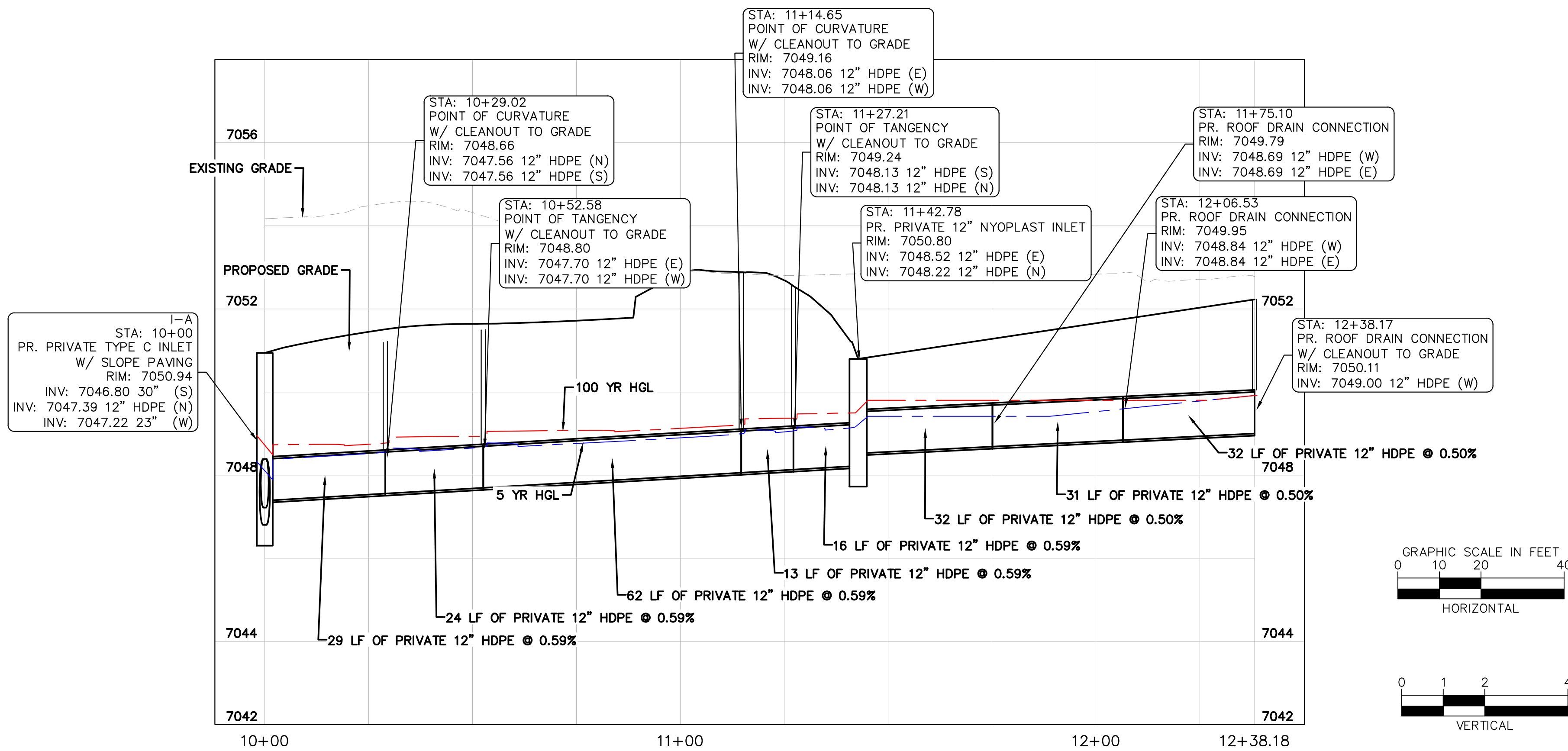
SHEET NUMBER
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PCD FILE NO.: CDR268

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STORM LINE B - PLAN VIEW



STORM LINE B - PROFILE VIEW

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- SETBACK LINE
- PROPOSED SANITARY LINE
- PROPOSED STORM LINE
- PROPOSED WATER LINE
- PROPOSED FIRE LINE
- EXISTING GAS LINE
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RWRF STORMWATER
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EL PASO COUNTY
COLORADO

STORM PLAN & PROFILE

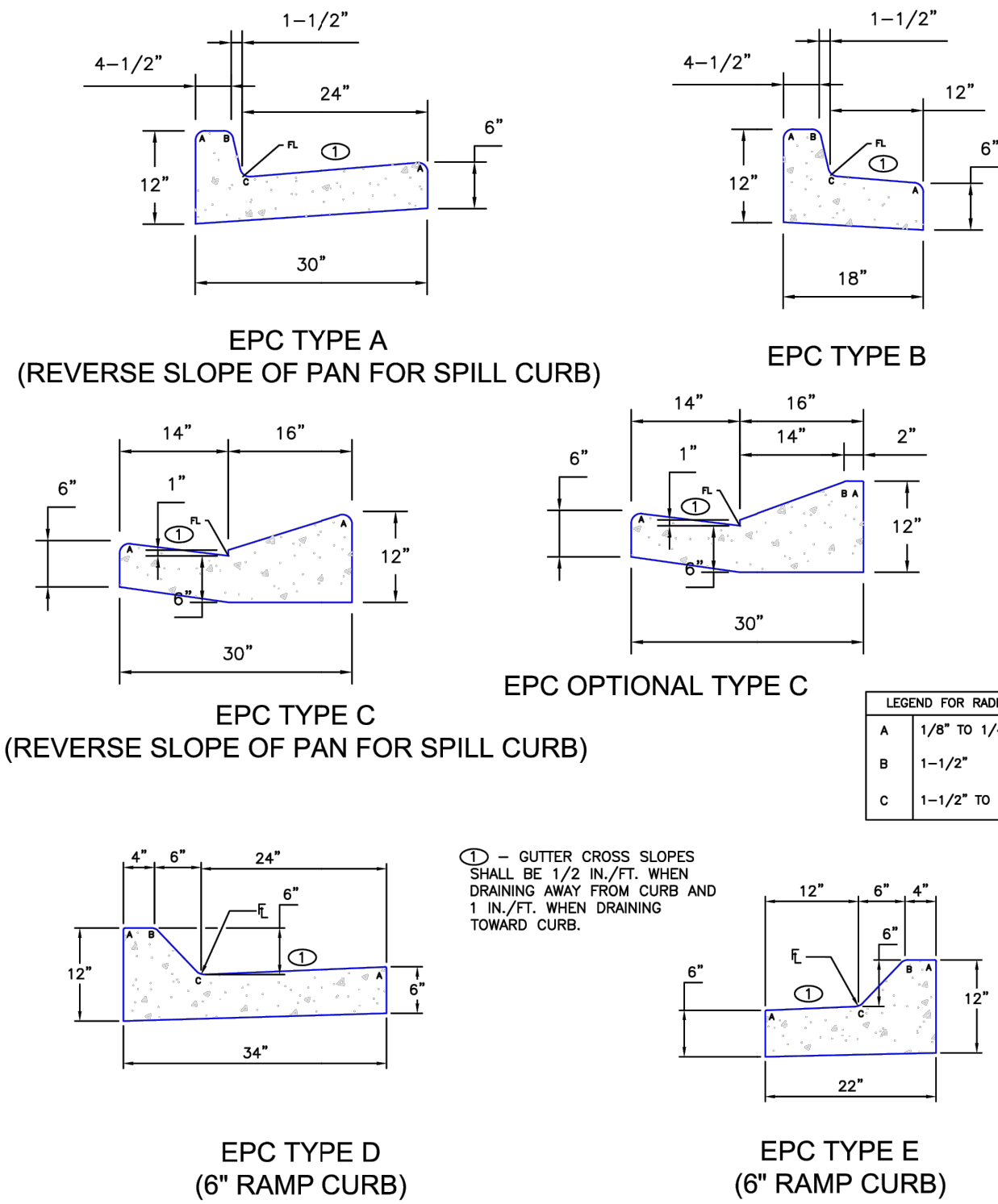
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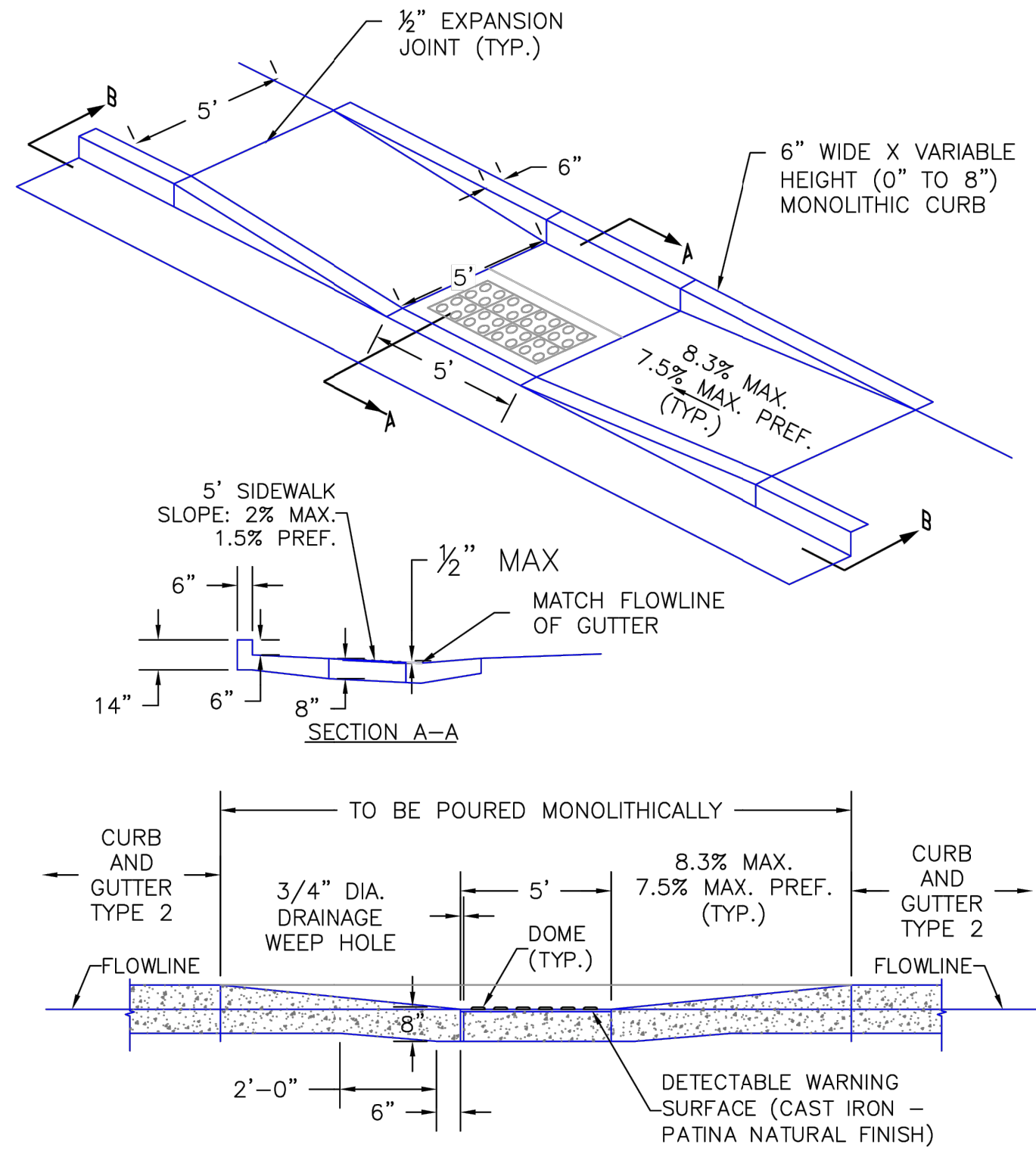
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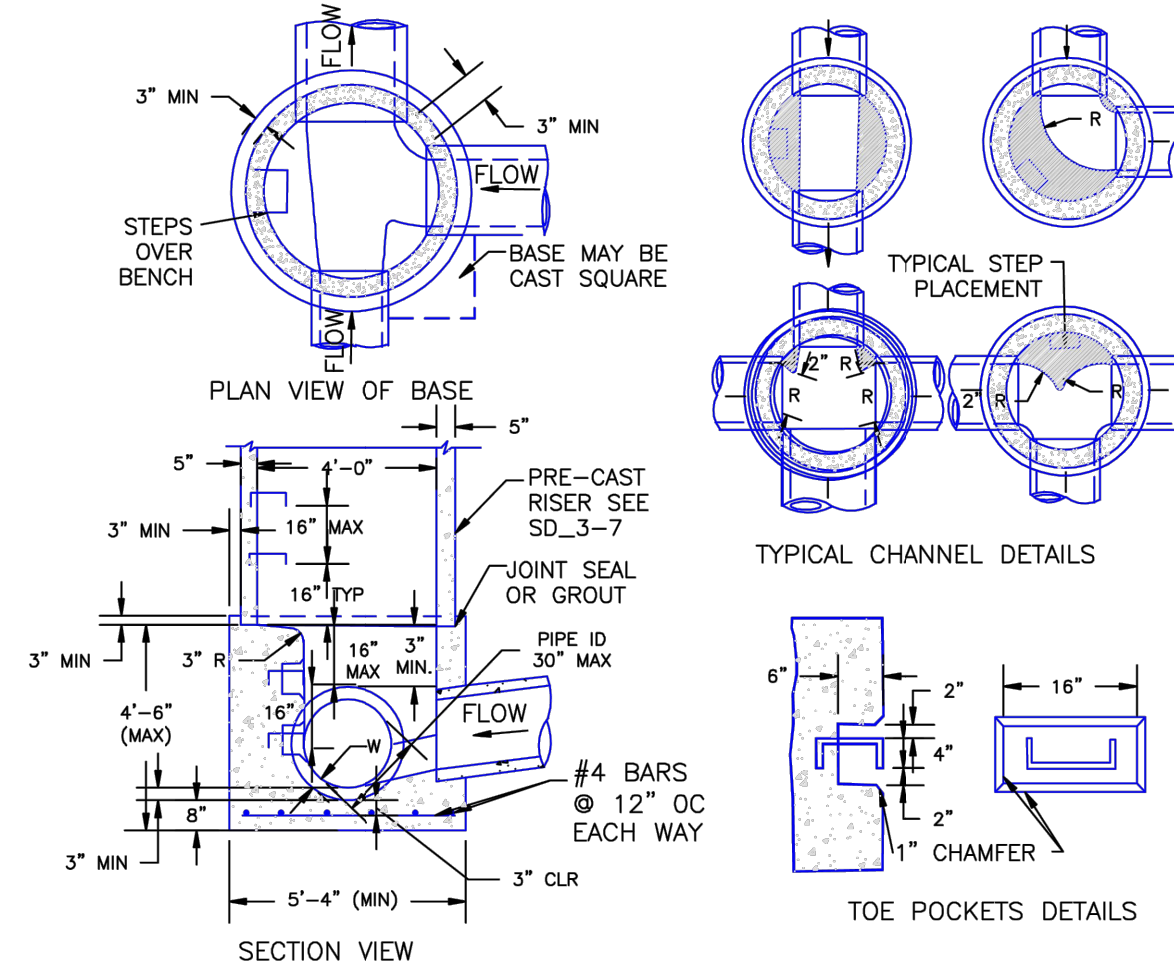
NOTE: SIDEWALK/CURB & GUTTER SHALL NOT BE POURED MONOLITHICALLY

SCALE: NOT TO SCALE

6/23/20	Typical Curb and Gutter Details		
DATE APPROVED:			
Joshua J. Palmer	Standard Drawing		
DEPARTMENT OF PUBLIC WORKS	REVISION DATE: 7/18/23	FILE NAME: SD_2-20	



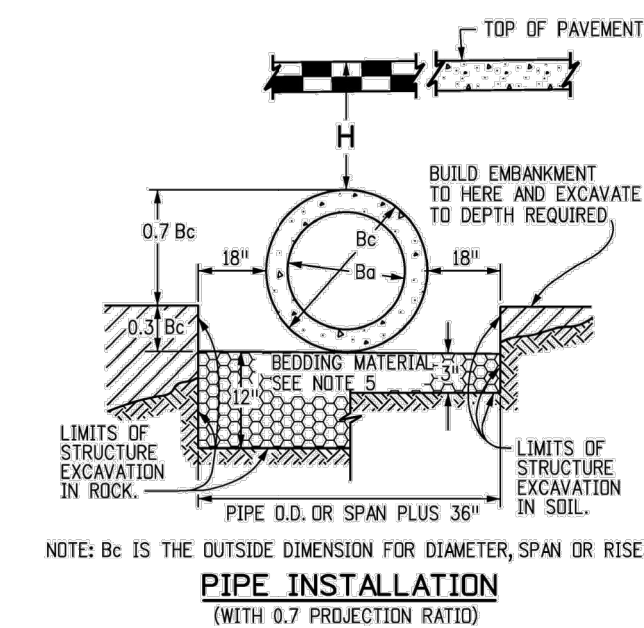
6/23/20	Parallel Pedestrian Curb Ramp Detail		
DATE APPROVED:			
Jennifer E. Irvine	Standard Drawing		
DEPARTMENT OF PUBLIC WORKS	REVISION DATE: 6/23/20	FILE NAME: SD_2-50	



- NOTES
- TYPE II MANHOLES SHALL BE USED WHEN APPROPRIATE AND TYPICALLY WHEN THE PIPE SIZES ARE 30" OR LESS INSIDE DIAMETER.
 - VIEW AND DETAILS ARE TYPICAL. DESIGN ENGINEER SHALL DETERMINE MANHOLE BASE CONFIGURATION AND DIMENSIONS FOR PARTICULAR PIPE SIZES AND ALIGNMENT.
 - EITHER LADDER OF STEPS SHALL BE INSTALLED WHEN MANHOLE DEPTH EXCEEDS 30". STEPS IN BASE SHALL BE INSTALLED IN "TOE POCKETS" (SEE DETAIL THIS SHEET). LOWEST STEP SHALL BE A MAXIMUM OF 16" ABOVE THE FLOOR.
 - PIPES SHALL BE TRIMMED TO FINAL SHAPE AND SET BEFORE MANHOLE IS POURED.
 - BENCH SHALL BE SLOPED TOWARD CENTER OF MANHOLE BASE (4:1 MAX., 1/2" PER FOOT. MIN.).
 - FLOOR OF MANHOLE SHALL BE TROWELLED TO A SMOOTH, HARD SURFACE AND SHALL SLOPE TOWARDS THE OUTLET (8:1, 1/8" PER FT. MIN.). FLOOR SHALL BE SHAPED AND CHANNELLED; SEE DETAILS THIS SHEET.

SCALE: NOT TO SCALE

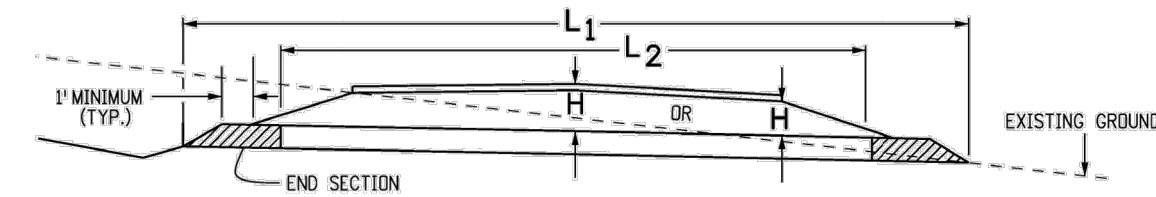
Storm Sewer Manhole Detail		
Type II		
Standard Drawing		
DATE APPROVED: André P. Brackin	REVISION DATE: 11/10/04	



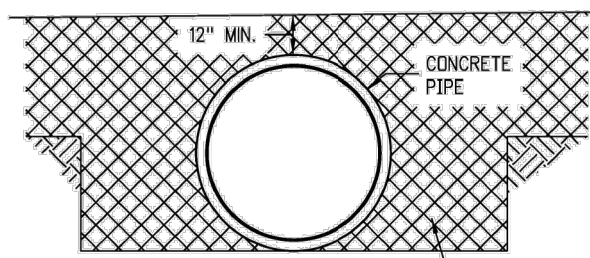
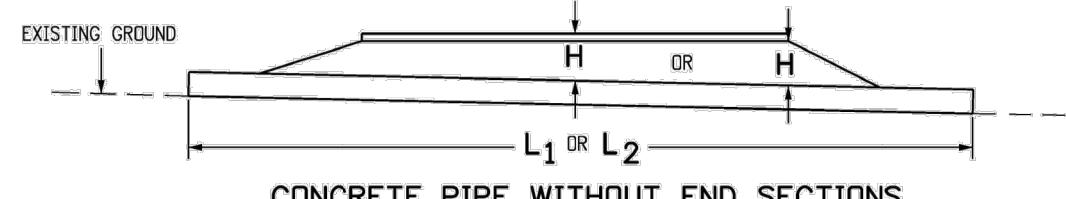
CIRCULAR (CIR)				VERTICAL ELLIPTICAL (VE)				HORIZONTAL ELLIPTICAL (HE)			
PIPE SIZE: Ba (INSIDE DIA.)	WALL THICKNESS	0.3 Bc OUTSIDE DIA.	0.3 OUTSIDE RISE	SPAN	RISE	WALL THICKNESS	0.3 OUTSIDE RISE	SPAN	RISE	WALL THICKNESS	0.3 OUTSIDE RISE
IN.		FT.	FT.	IN.		IN.	FT.	IN.		IN.	FT.
12	2	0.40						23	14	2-3/4	0.49
15	2-1/4	0.49									
18	2-1/2	0.58									
21	2-3/4	0.66						30	19	3-1/4	0.66
24	3	0.75						34	22	3-1/2	0.73
27	3-1/4	0.84						38	24	3-3/4	0.79
30	3-1/2	0.92						45	29	4-1/2	0.95
33	3-3/4	1.01						53	34	5	1.10
36	4	1.10		29	45	4-1/2	1.35	60	38	5-1/2	1.23
42	4-1/2	1.28		34	53	5	1.58	68	43	6	1.38
48	5	1.45		38	60	5-1/2	1.78	76	48	6-1/2	1.53
54	5-1/2	1.62		43	68	6	2.00	83	53	7	1.68
60	6	1.80		48	76	6-1/2	2.23	91	58	7-1/2	1.83
66	6-1/2	1.97		53	83	7	2.43	106	68	8-1/2	2.13
72	7	2.15		58	91	7-1/2	2.65	121	77	9-1/2	2.40
78	7-1/2	2.32		63	98	8	2.85	128	82	9-3/4	2.54
84	8	2.50		68	106	8-1/2	3.08	136	87	10	2.68
90	8-1/2	2.68		72	113	9	3.28				
96	9	2.85		77	121	9-1/2	3.50				
102	9-1/2	3.02		82	128	9-3/4	3.69				
108	10	3.20		87	136	10	3.90				

△ ALSO EQUIVALENT ROUND DIMENSION FOR ELLIPTICAL PIPE.

DIMENSIONS FOR REINFORCED CONCRETE PIPE
(FOR INFORMATION ONLY)



H = HEIGHT OF FILL OVER TOP OF PIPE, INCLUDING PAVEMENT THICKNESS.
L1 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 624.
L2 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 603.



ALLOWABLE RANGE OF HEIGHTS FOR FILL OVER REINFORCED CONCRETE PIPE
(ALL SIZES)

TYPE OF PIPE	HEIGHT OF FILL OVER TOP OF PIPE, H (FEET)					
	CLASS OF PIPE (0.01 IN. CRACK D-LOAD)					
	CLASS CIR II	CLASS CIR III	CLASS CIR IV	CLASS CIR V	CLASS CIR VI	CLASS CIR VII
CIRCULAR (CIR)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62	
VERTICAL ELLIPTICAL (VE)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62	
HORIZONTAL ELLIPTICAL (HE)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62	

REINFORCED CONCRETE PIPE

Issued by the Project Development Branch July 31, 2019

STANDARD PLAN NO.

M-603-2

Standard Sheet No. 1 of 1

Project Sheet Numbers



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KHA PROJECT 196013004
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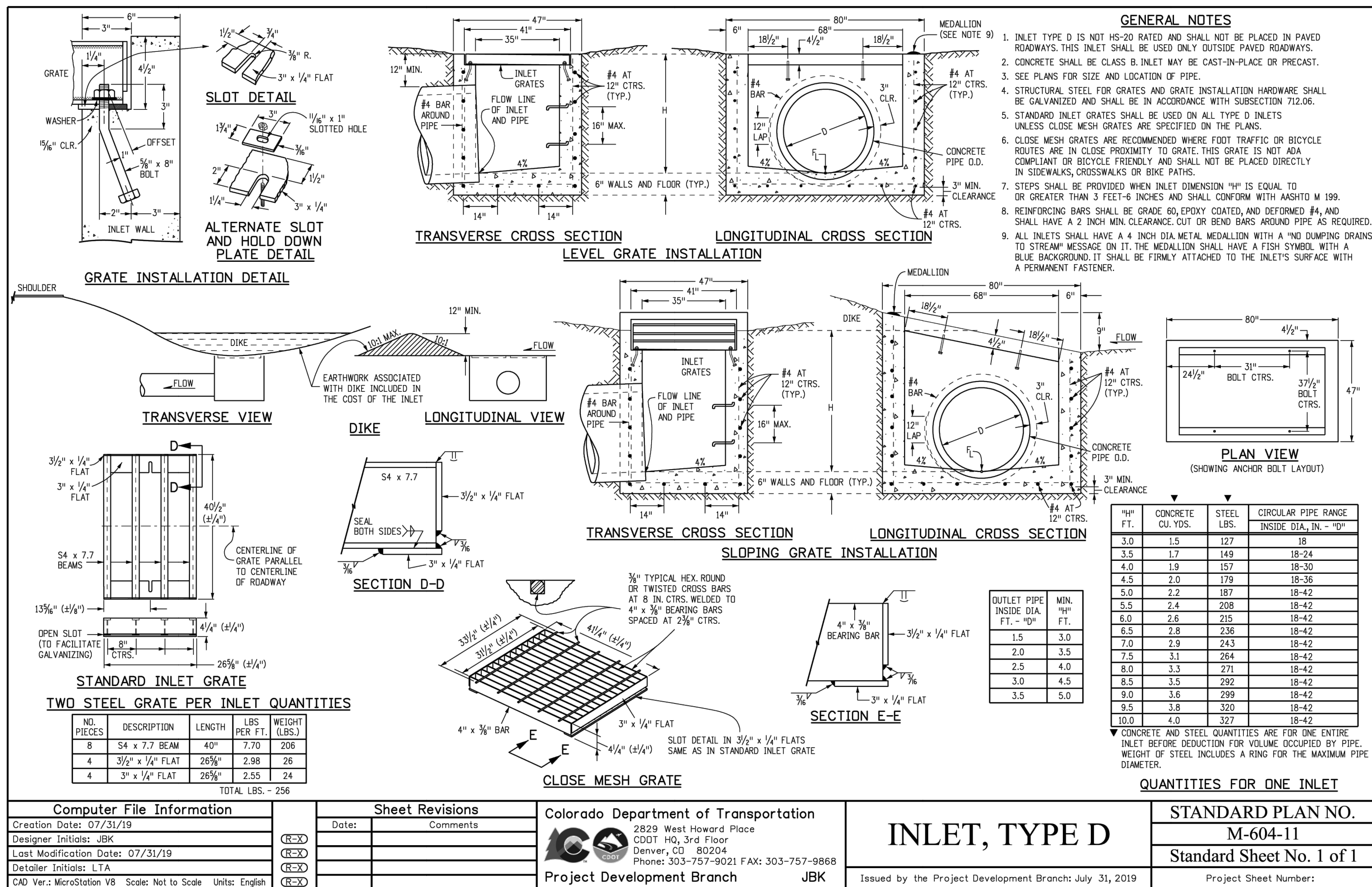
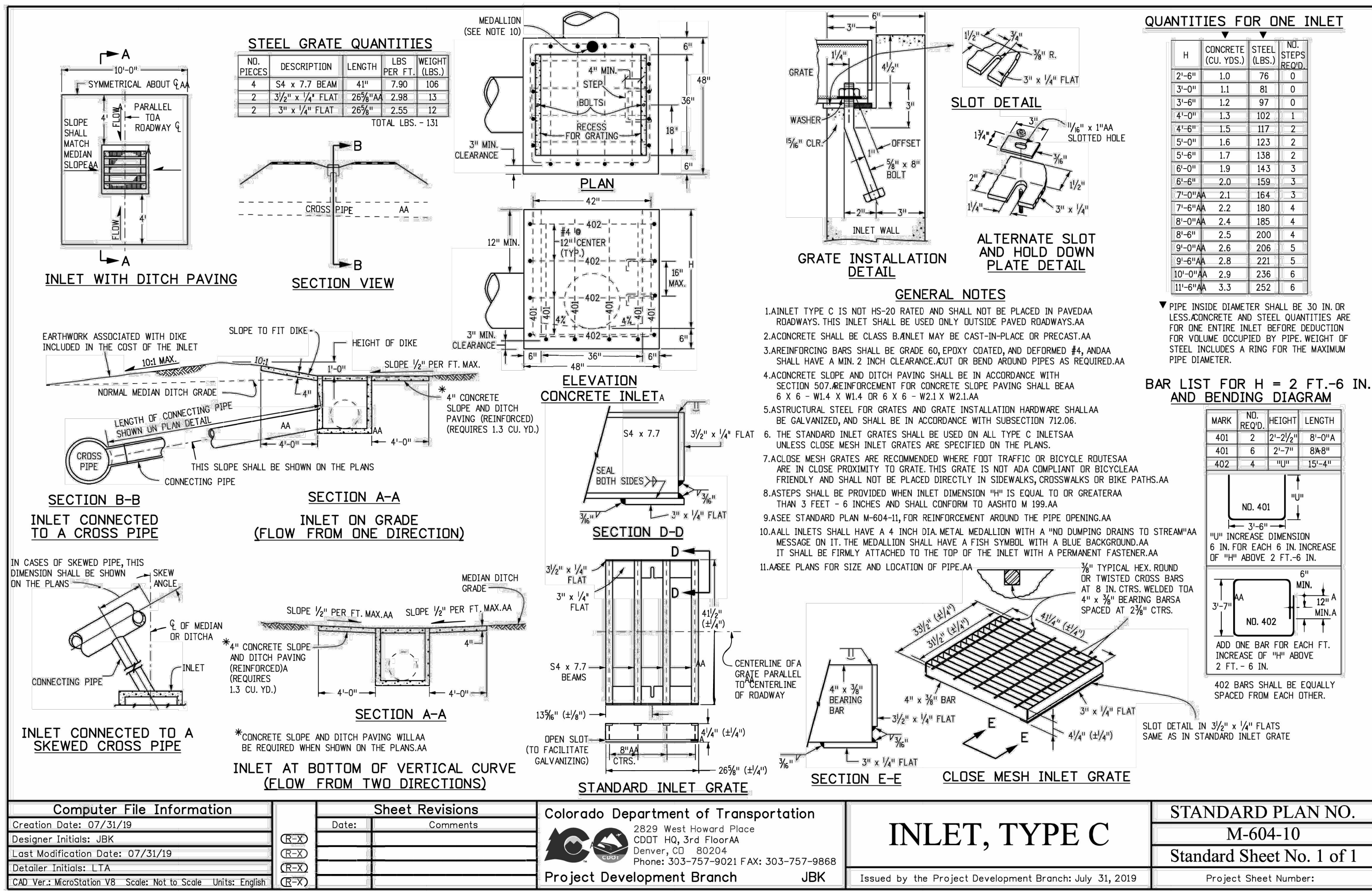
RWRF STORMWATER IMPROVEMENTS
PREPARED FOR
WOODMEN HILLS
METROPOLITAN DISTRICT
COLORADO
EL PASO COUNTY

DETAIL SHEET

SHEET NUMBER
C1.17

PCD FILE NO.: CDR268

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KRK

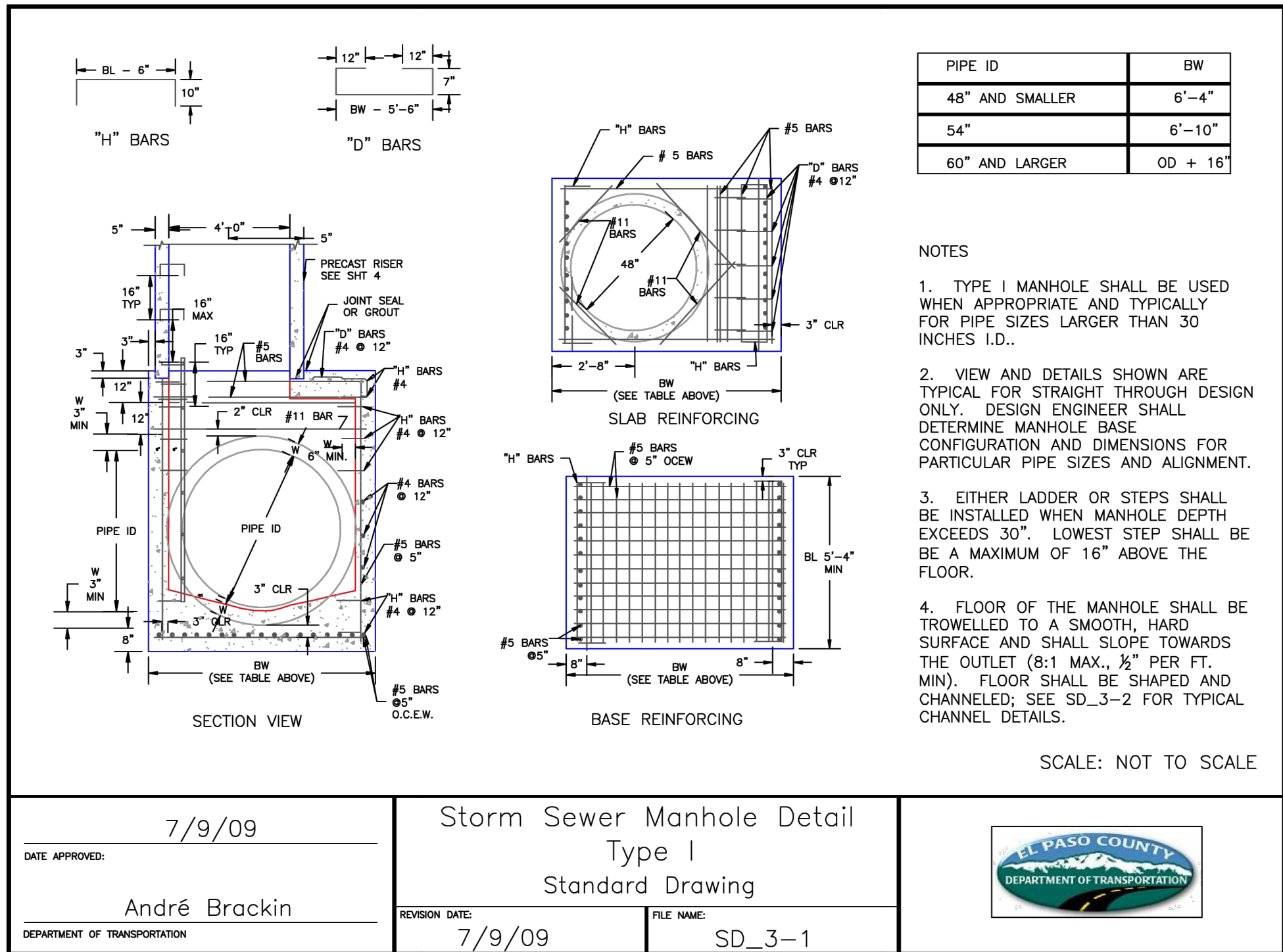
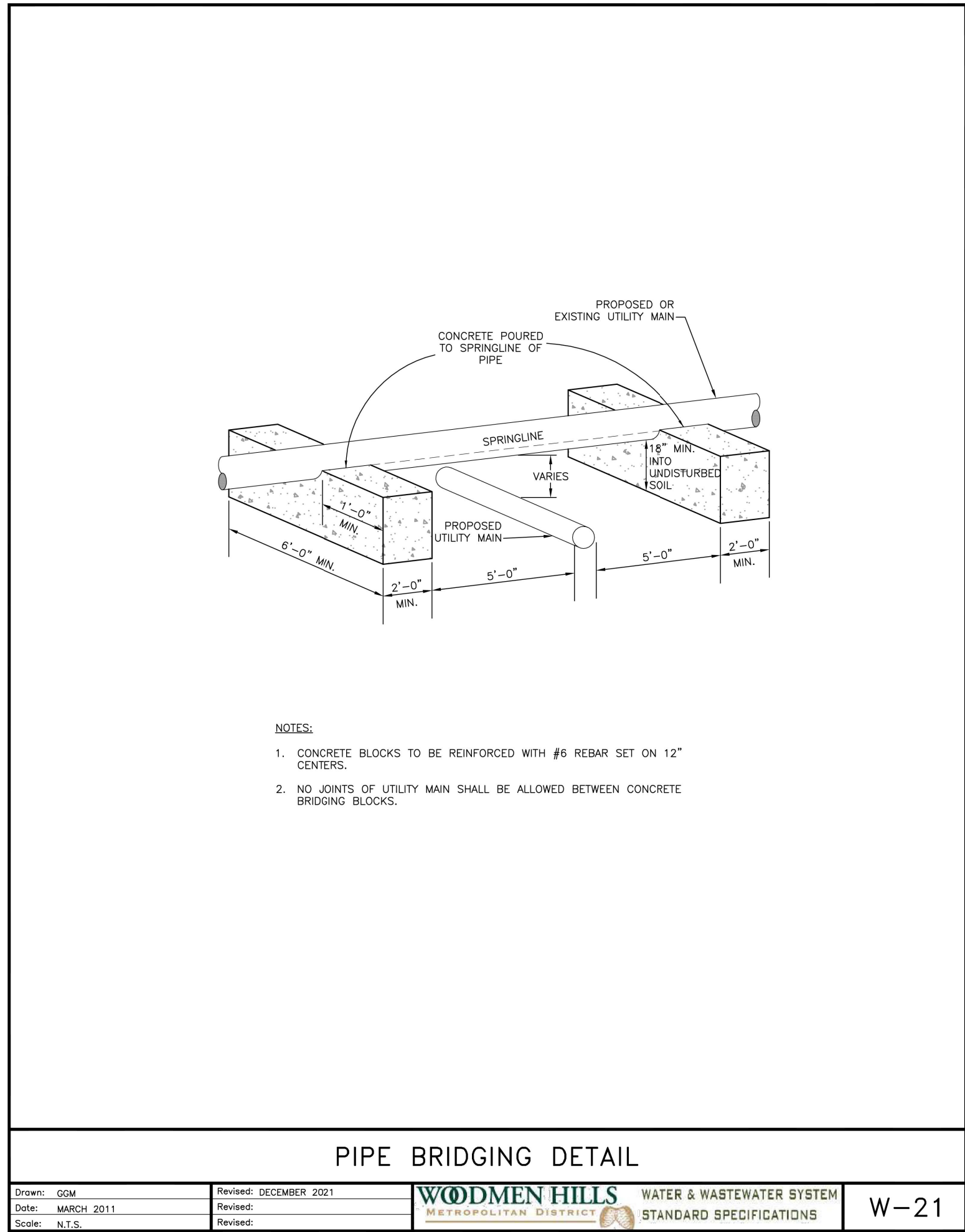
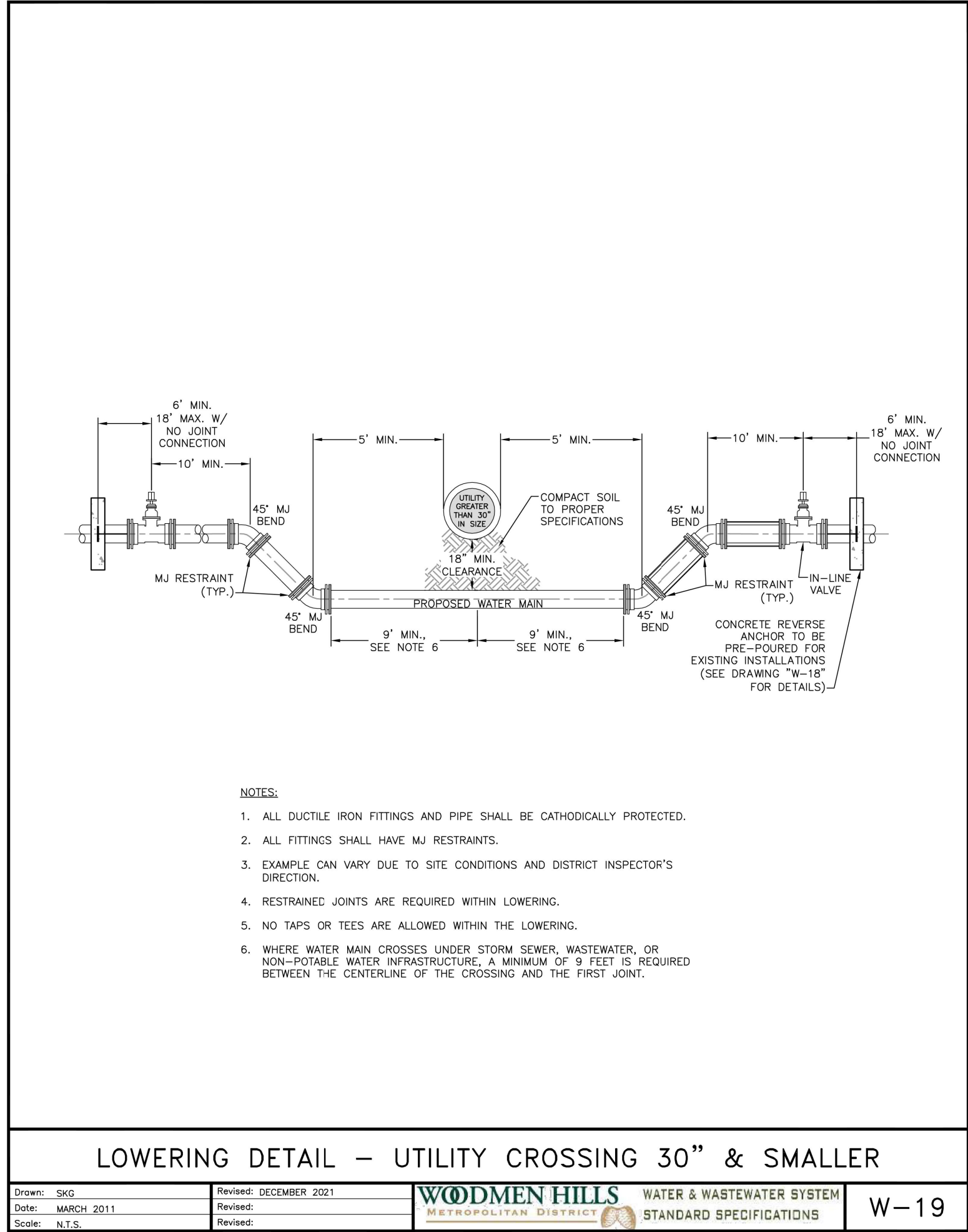
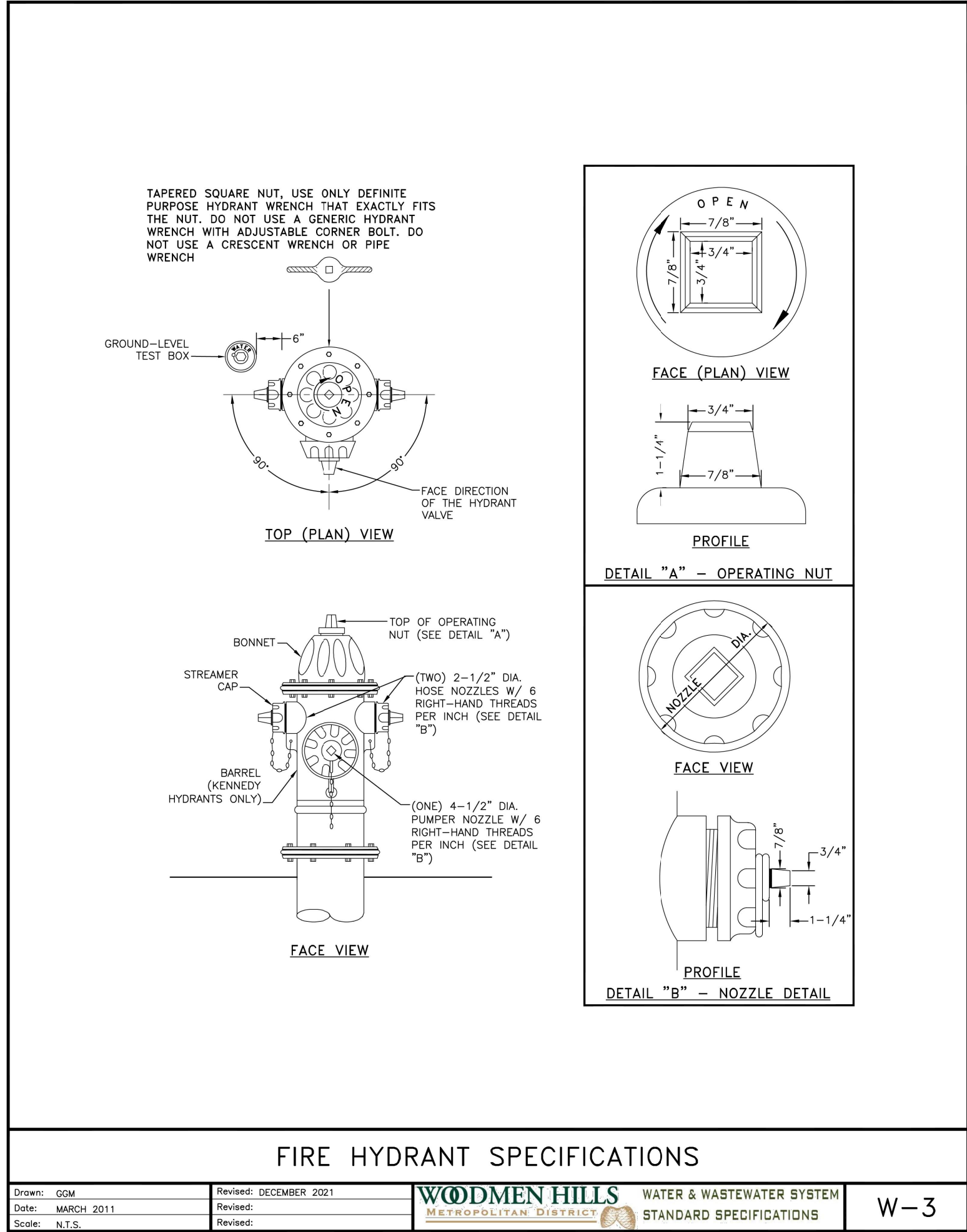
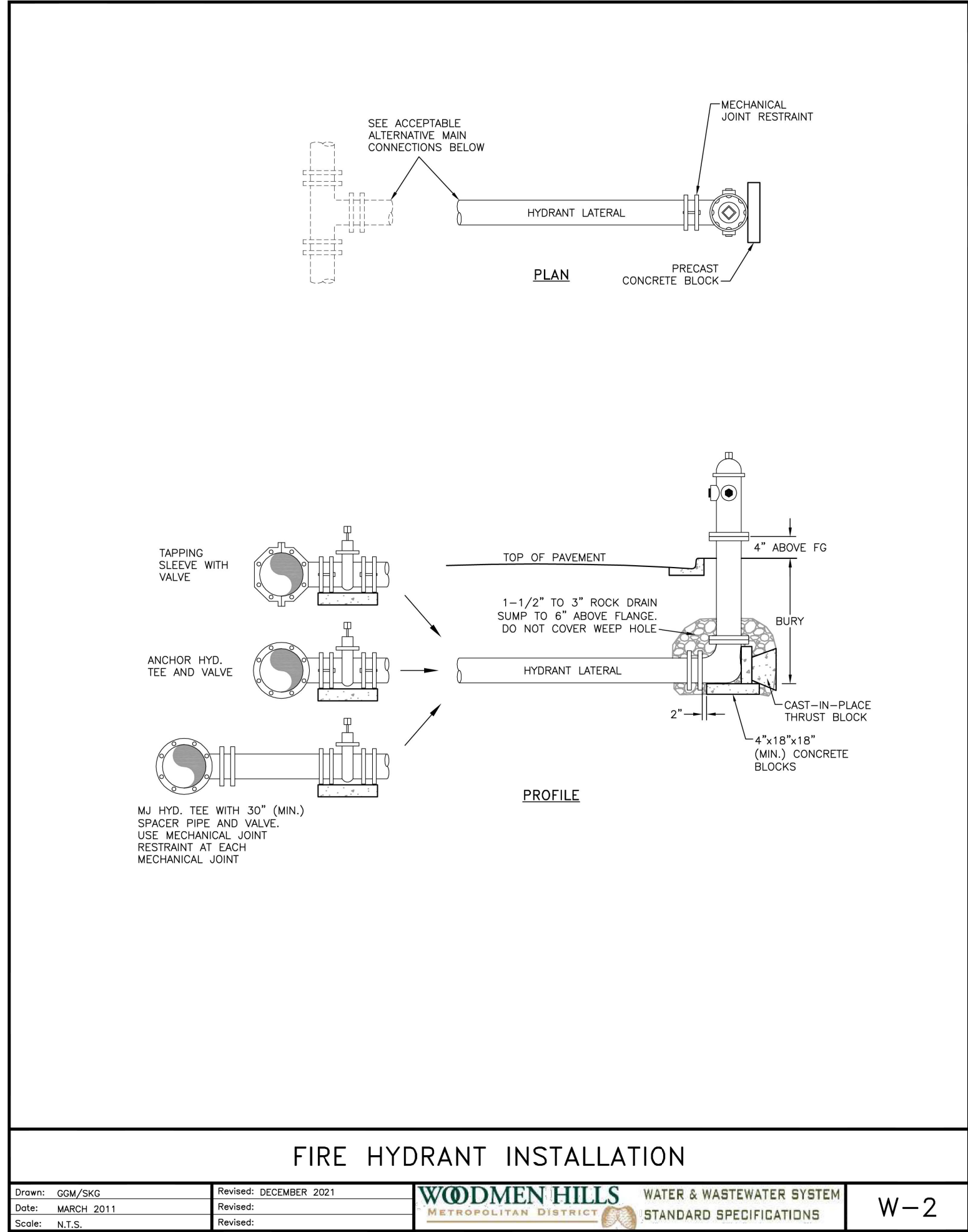
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EL PASO COUNTY
COLORADO

DETAIL SHEET

SHEET NUMBER
C1.18

PCD FILE NO.: CDR268

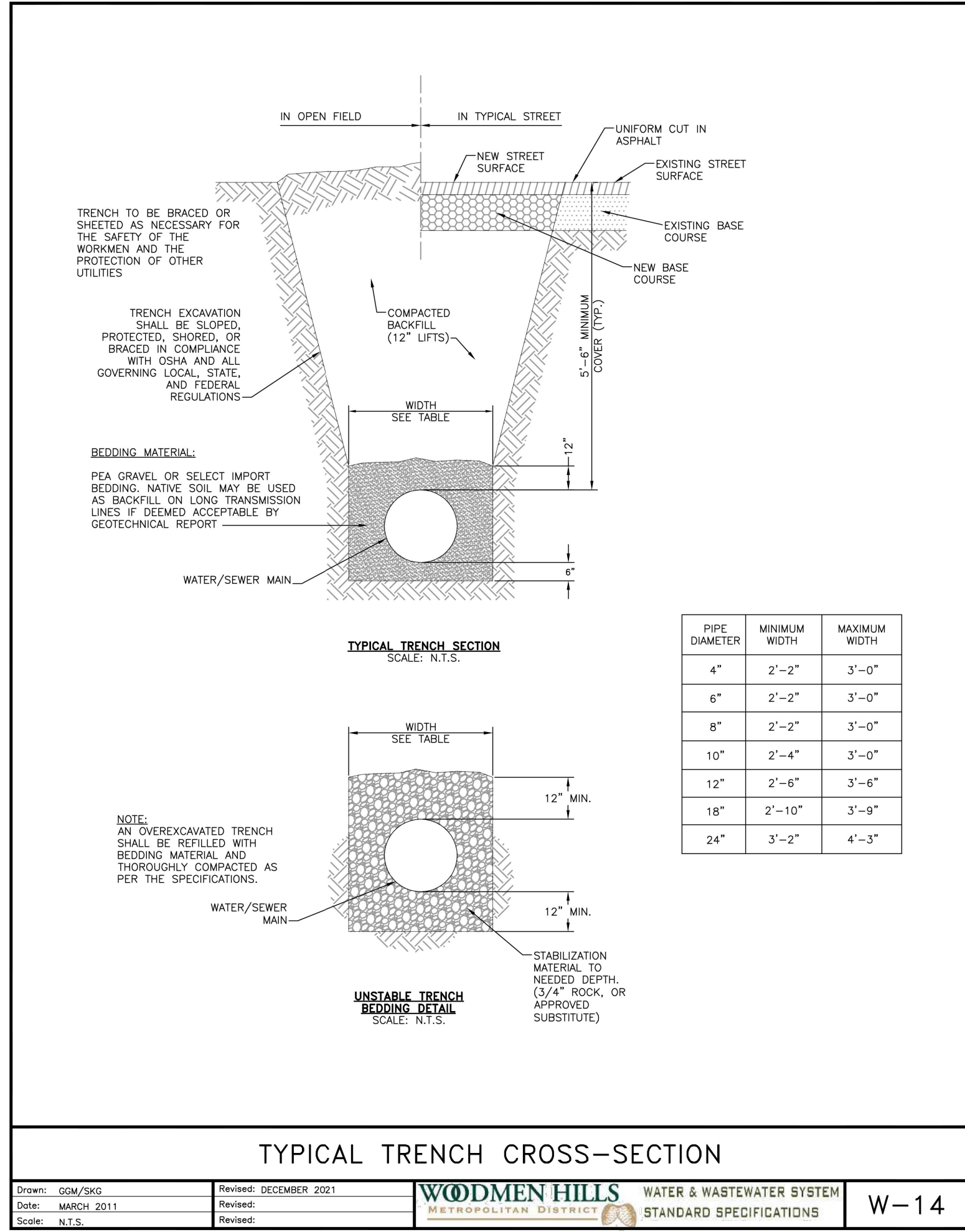
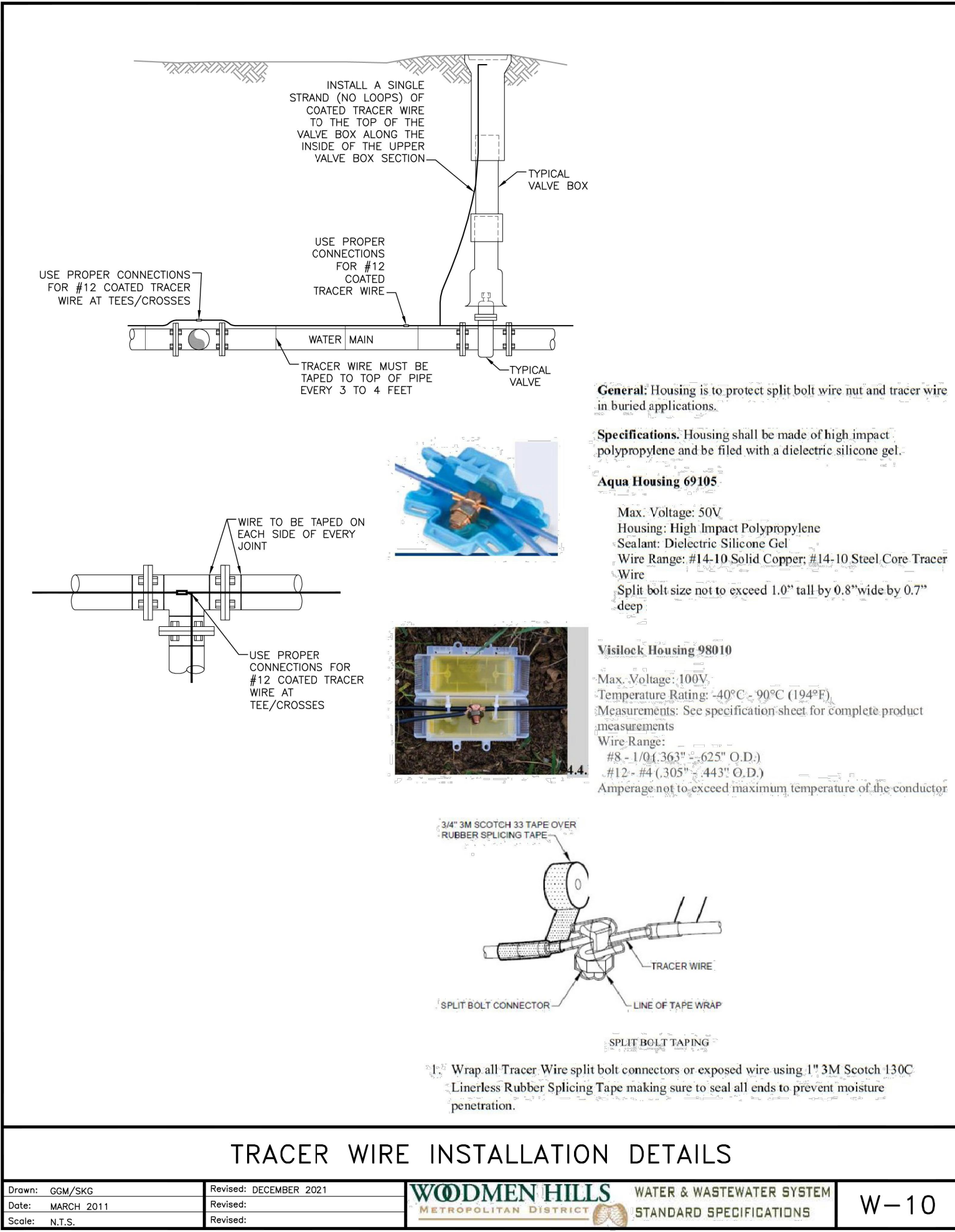
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KHA PROJECT 196013004	DATE 2026-08-10	SCALE AS SHOWN	DESIGNED BY MEG	DRAWN BY MEG	CHECKED BY KRK	COLORADO EL PASO COUNTY	DETAIL SHEET	SHEET NUMBER C1.19	PCD FILE NO.: CDR268
Kimley»Horn © 2026 KIMLEY-HORN AND ASSOCIATES, INC. 2 N NEVADA AVE SUITE 600 COLORADO SPRINGS, CO 80903 WWW.KIMLEY-HORN.COM REGISTRY No. 35108									
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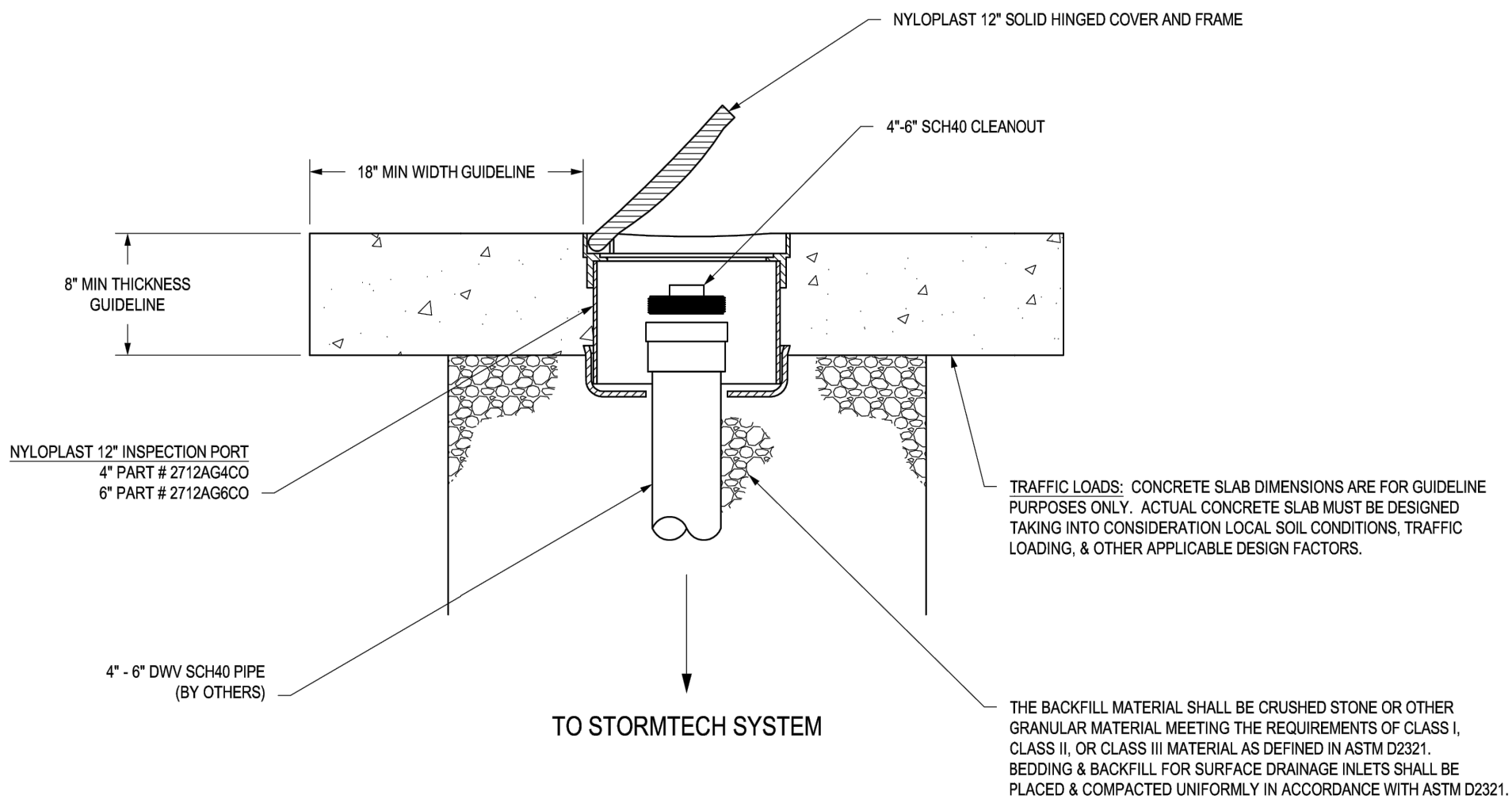
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No. Revisions By Date

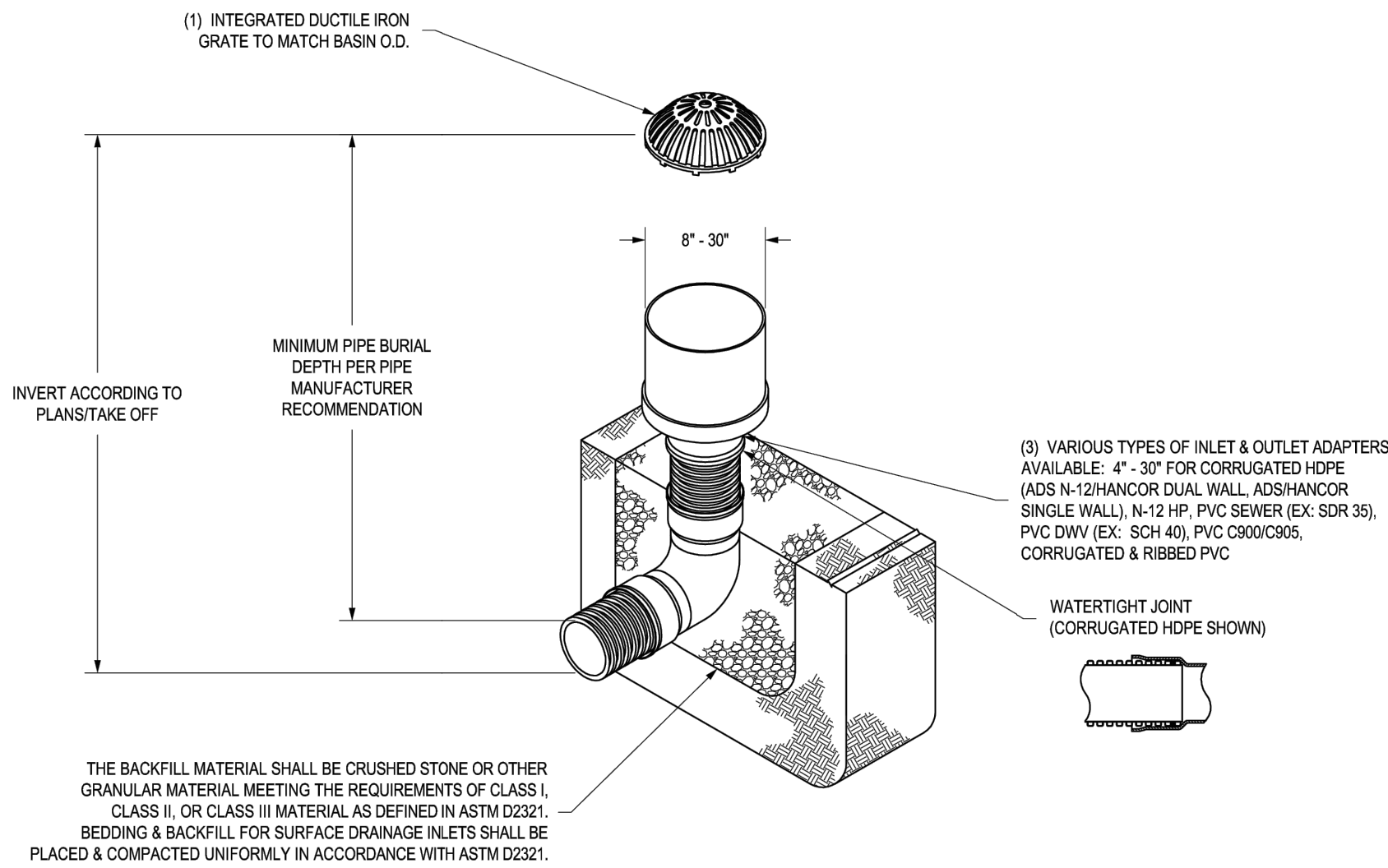
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NYLOPLAST 12" INSPECTION PORT: TRAFFIC RATED INSTALLATION



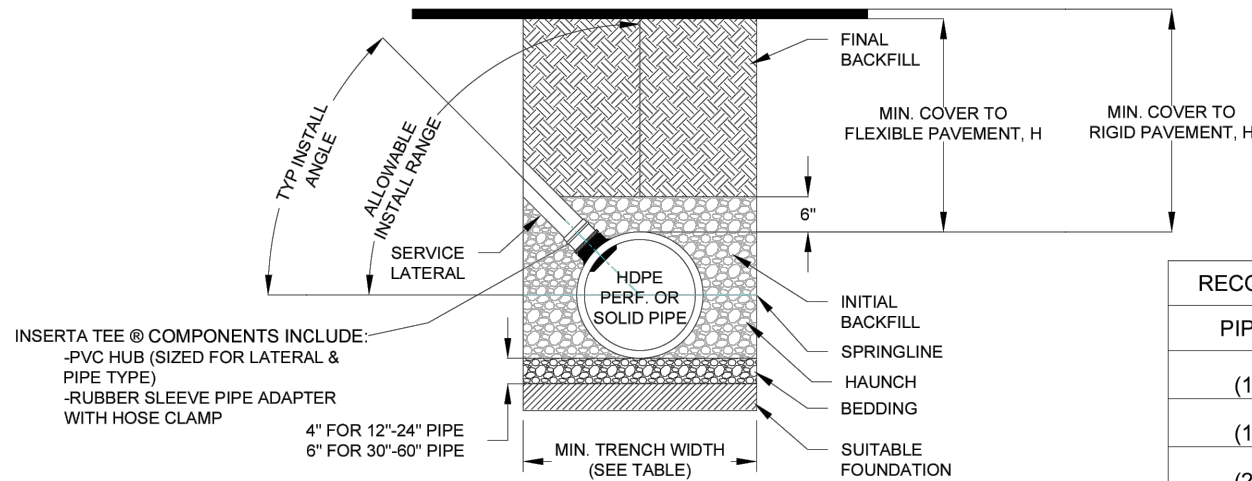
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		REVISED BY DATE 03-15-16	NMH	PROJECT NO./NAME		
DWG SIZE	A	SCALE	1:10	SHEET	1 OF 1	DWG NO. 7003-119-065 REV C

NYLOPLAST INLINE DRAIN WITH DOME GRATE



1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 2 - DRAINAGE CONNECTION SUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2122 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL), N-12 HP, & PVC SEWER (EX. SDR 35). 3 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.		DRAWN BY DATE 03-25-10	EBG	MATERIAL	 3130 VERONA AVE BURLINGHAM, CT 06810 PH: (770) 932-2445 FAX: (770) 932-2490 www.nyloplast-us.com	TITLE INLINE DRAIN WITH DOME GRATE QUICK SPEC INSTALLATION DETAIL
		REVISED BY DATE 03-15-16	NMH	PROJECT NO./NAME		
DWG SIZE	A	SCALE	1:10	SHEET	1 OF 1	DWG NO. 7003-119-057 REV D

INSERTA TEE® DETAIL (HDPE)



RECOMMENDED MINIMUM TRENCH WIDTHS	
PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	29" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
54" (1350mm)	88" (2235mm)
60" (1500mm)	96" (2438mm)

NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- THE INSERTA TEE CONNECTION CAN BE INSTALLED UP TO A VERTICAL ORIENTATION, BUT A 45° INSTALL ANGLE IS MOST COMMON. GREATER ANGLES ARE SUBJECT TO DESIGN ENGINEER APPROVAL AND MAY REQUIRE PREMIUM BACKFILL.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm), 6" (150mm) FOR 30"-48" (750mm-1200mm).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

NOTE: FOR INSTALLATION INSTRUCTIONS, REFER TO DETAIL STD-1100. FOR PROTRUSION INFORMATION, REFER TO DETAIL STD-1101. FOR HOLE SAW INFORMATION, REFER TO DETAIL STD-1102.

ADVANCED DRAINAGE SYSTEMS, INC. (ADS) HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO REPORT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS IDENTIFIED NOR VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEET OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.		 4640 TRUEMAN BLVD HILLIARD, OH 43026	07/19/23
INSERTA TEE DETAIL (HDPE)			ENG
DRAWING NUMBER	STD-1011		NTS

GENERAL NOTES:

- DETAILS ON THIS SHEET TO BE BY ADS OR OF EQUIVALENT STORM SOLUTION MANUFACTURER.

Kimley»Horn

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WWW.KIMLEY-HORN.COM REGISTRY NO. 35108

PRELIMINARY

FOR REVIEW ONLY
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CONSTRUCTION

Kimley»Horn
Kimley-Horn and Associates, Inc.

KHA PROJECT 196013004	DATE 2026-08-10	SCALE AS SHOWN	DESIGNED BY MEG	DRAWN BY MEG	CHECKED BY KRK
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RWRF STORMWATER
IMPROVEMENTS
PREPARED FOR
WOODMEN HILLS
METROPOLITAN DISTRICT
COLORADO
EL PASO COUNTY

DETAIL SHEET

SHEET NUMBER
C1.21



Know what's below.
Call before you dig.

90% CONSTRUCTION DOCUMENTS

