

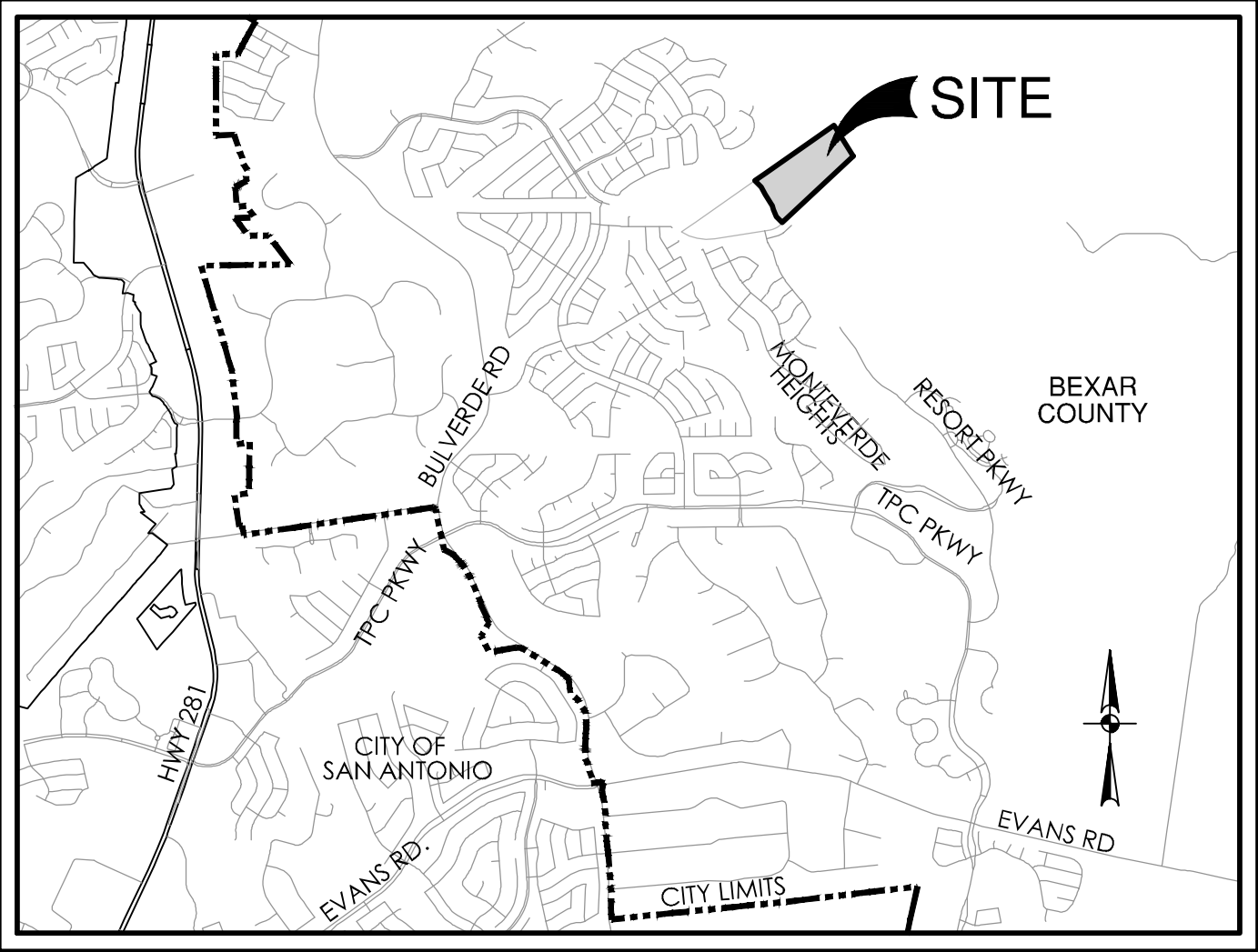
CIBOLO CANYON - UNIT 9C, ENCLAVE

SAN ANTONIO, TEXAS

CIVIL CONSTRUCTION PLANS

Sheet List Table

Sheet Title	Sheet Number
COVER SHEET	C0.00
OVERALL DRAINAGE PLAN (ULTIMATE DEVELOPMENT)	C1.00
DRAIN "A1" & DRAIN "A2" PLAN & PROFILE	
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DRAIN "A2" STA. 1+02.55 TO END	
DRAIN "B1" PLAN & PROFILE STA. 1+30.00 TO END	C1.02
DRAIN "C1" PLAN & PROFILE STA. 1+30.00 TO END	C1.03
DRAIN "C2" & DRAIN "C3" PLAN & PROFILE	
DRAIN "C2" STA. 1+02.50 TO END	C1.04
DRAIN "C3" STA. 1+02.50 TO END	
DRAIN "D1-A" & "D1-B" PLAN & PROFILE	
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DRAINAGE DETAILS	C1.08
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PALACIO VIEW PLAN & PROFILE STA. 1+43.80 TO END	C2.01
DAWN HILLS PLAN & PROFILE STA. 1+20.86 TO 8+50.00	C2.02
DAWN HILLS PLAN & PROFILE STA. 8+50.00 TO END	C2.03
BACKSWING PLAN & PROFILE STA. 1+14.12 TO END	C2.04
BLIND HOLE PLAN & PROFILE STA. 1+14.12 TO END	C2.05
HOLE HIGH PLAN & PROFILE STA. 1+54.27 TO END	C2.06
STREET DETAILS	C2.07
STREET DETAILS	C2.08
STREET DETAILS	C2.09
OVERALL SIGNAGE PLAN	C3.00

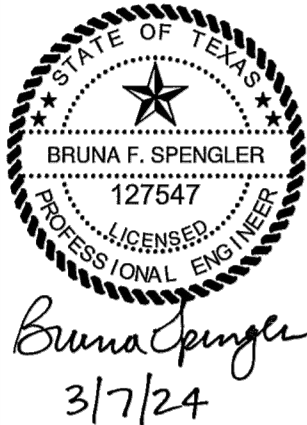
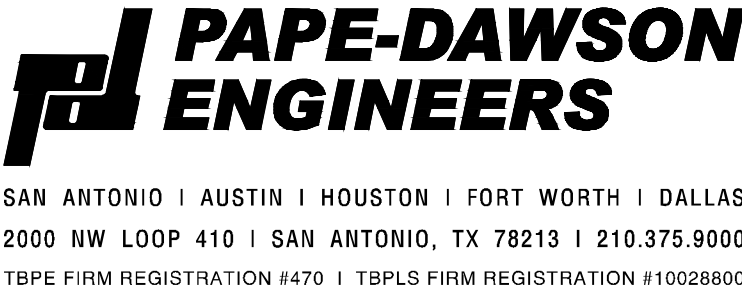


LOCATION MAP
NOT-TO-SCALE

PREPARED FOR:

TF CIBOLO CANYONS, LP
6310 CAPITAL DRIVE, SUITE 130
LAKEWOOD RANCH, FLORIDA 34202

JUNE 2023



WATER (SAWS PRESSURE ZONE 11A)

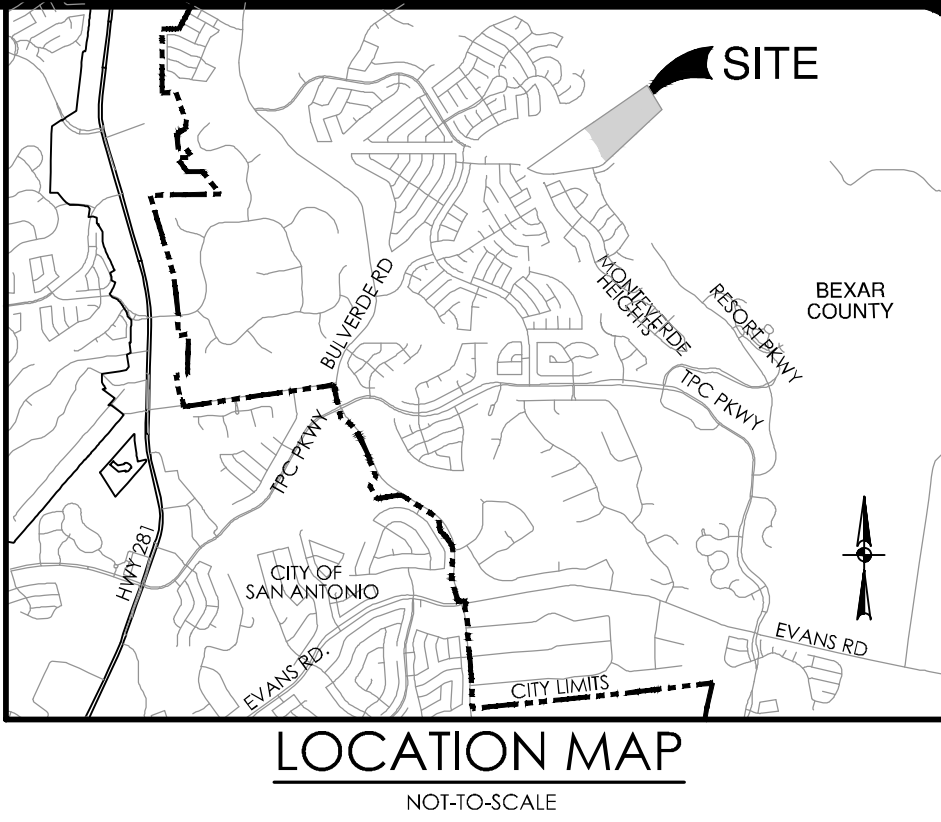
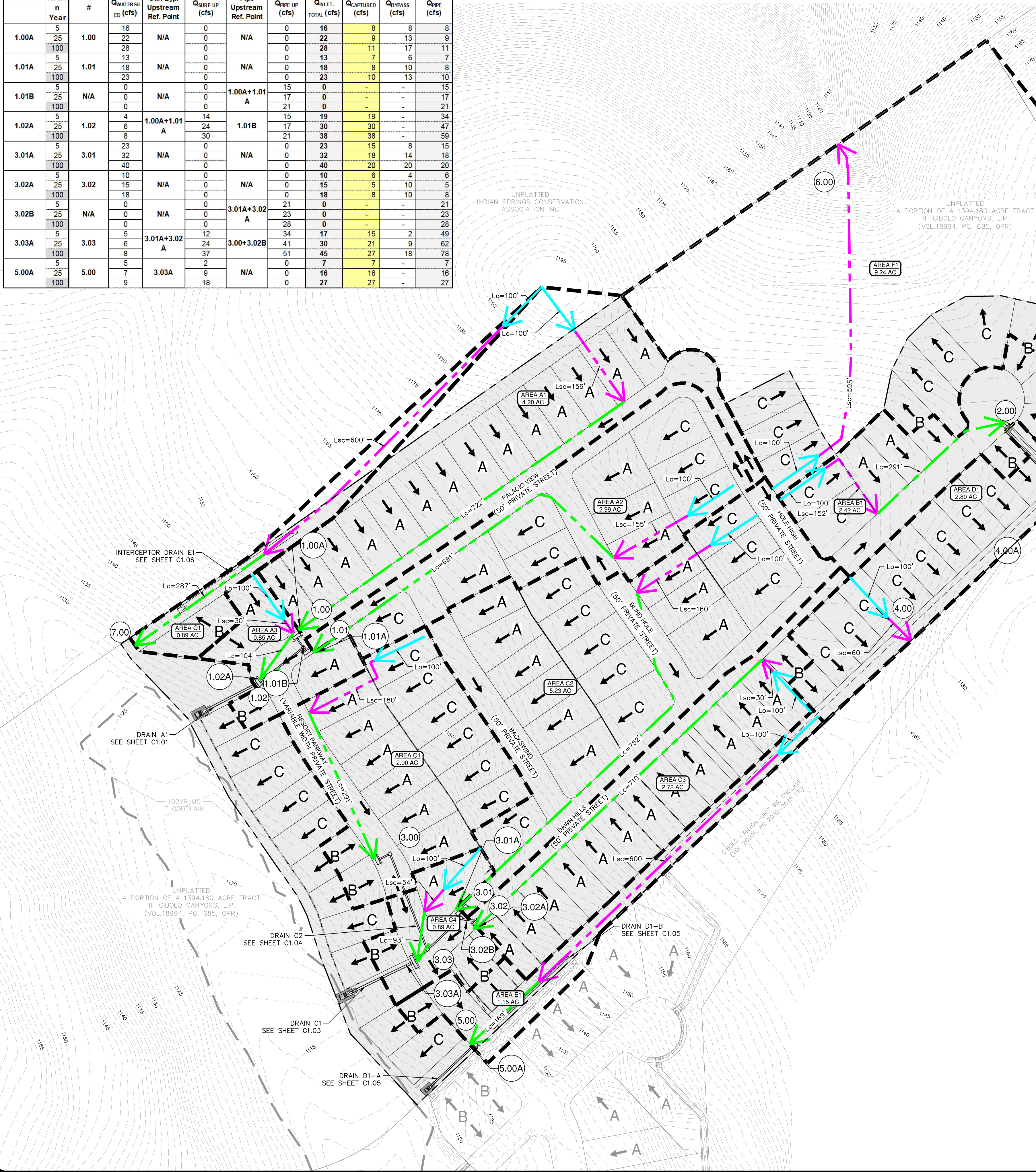
DEVELOPER'S NAME: TF CIBOLO CANYONS, LP
ADDRESS: 6310 CAPITAL DRIVE, SUITE 130
CITY: LAKEWOOD RANCH STATE: FLORIDA ZIP: 34202
PHONE# 941-388-0707 FAX# N/A
SAWS BLOCK MAP# 188662 TOTAL EDU'S 111 TOTAL ACREAGE 37.16
TOTAL LINEAR FOOTAGE OF PIPE: 1,308 LF - 8" PVC PLAT NO. 22-11800410
NUMBER OF LOTS 106 SAWS JOB NO. 22-1199

SEWER: EAST SEWERSHED - DOS RIOS - OVER E.A.R.Z.

DEVELOPER'S NAME: TF CIBOLO CANYONS, LP
ADDRESS: 6310 CAPITAL DRIVE, SUITE 130
CITY: LAKEWOOD RANCH STATE: FLORIDA ZIP: 34202
PHONE# 941-388-0707 FAX# N/A
SAWS BLOCK MAP# 188668 TOTAL EDU'S 106 TOTAL ACREAGE 37.16
TOTAL LINEAR FOOTAGE OF PIPE: 4,520 LF - 8" PVC PLAT NO. 22-11800410
NUMBER OF LOTS 106 SAWS JOB NO. 22-1694

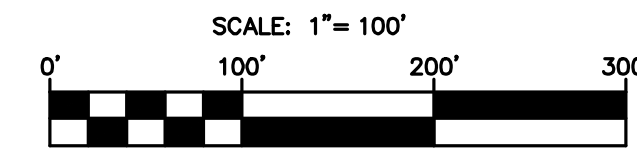
SHEET C0.00

Accumulated Flow Rates										
Ref. Point	Return Year	Contributing Flow			Reference Sub-point					Q _{PIPE} (cfs)
		#	Q _{WATER SH ED} (cfs)	Surf Byp. Upstream Ref. Point	Upstream Pipe Flow	T	C	B	P	
1.00A	5	16	0	N/A	0	16	8	8	8	8
	25	22	0	N/A	0	22	9	13	9	9
	100	28	0	N/A	0	28	11	17	11	11
1.01A	5	13	0	N/A	0	13	7	6	7	7
	25	18	0	N/A	0	18	8	10	8	8
	100	23	0	N/A	0	23	10	13	10	10
1.01B	5	0	0	1.00A+1.01A	15	0	-	-	15	15
	25	0	0	1.00A+1.01A	17	0	-	-	17	17
	100	0	0	1.00A+1.01A	21	0	-	-	21	21
1.02A	5	4	14	1.00A+1.01A	15	19	19	-	34	34
	25	6	24	1.01B	17	30	30	-	47	47
	100	8	30	1.01B	21	38	38	-	59	59
3.01A	5	23	0	N/A	0	23	15	8	15	15
	25	32	0	N/A	0	32	18	14	18	18
	100	40	0	N/A	0	40	20	20	20	20
3.02A	5	10	0	N/A	0	10	6	4	5	5
	25	15	0	N/A	0	15	5	10	5	5
	100	18	0	N/A	0	18	8	10	8	8
3.02B	5	0	0	3.01A+3.02A	21	0	-	-	21	21
	25	0	0	3.01A+3.02A	23	0	-	-	23	23
	100	0	0	3.01A+3.02A	28	0	-	-	28	28
3.03A	5	24	12	3.01A+3.02A	34	17	15	2	63	63
	25	37	24	3.00+3.02B	41	30	21	0	69	69
	100	51	37	3.00+3.02B	51	45	27	18	78	78
5.00A	5	2	7	3.03A	0	2	7	-	7	7
	25	7	9	3.03A	0	16	16	-	16	16
	100	9	18	3.03A	0	27	27	-	27	27



LEGEND

- PROPERTY LINES
- CURRENT PHASE
- FEMA 100 YR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- OVERLAND FLOW PATH
- SHALLOW CONCENTRATED FLOW PATH
- CONCENTRATED FLOW PATH
- 1' CONTOUR
- 5' CONTOUR
- DRAINAGE REFERENCE POINT
- DRAINAGE AREA
- FLOW ARROW



Proposed Conditions Calculations

Ref. Point	Structure / Description	Drainage Areas			Total Flowpath (ft)	Overland/Sheet Flow (Seelye)			Shallow Concentrated Flow - 1**				Channelized Flow**				Tc-rot	Rational Method Q=CIA IDF Curve: COSA_A14_PA2		
		#	Area (Ac)	C		L _O (FT)	S _O (ft/ft)	T _O ** (MIN)	L _{SC} (FT)	Condition**	Slope (ft/ft)	V _{SC} (FPS)	T _{SC} ** (MIN)	L _{CH} (FT)	V _{CH} (FPS)	T _{CH} ** (MIN)		Return Year	Intensity (in/hr)	Q (cfs)
1.00	CURB INLET ON GRADE	A1	4.20	0.72	978	100	0.03	12	156	U	0.02	2.3	1.1	722	6.0	2.0	15	5	5.32	16
1.01	CURB INLET ON GRADE	A2	2.99	0.77	936	100	0.05	11	155	U	0.07	4.3	0.6	681	6.0	1.9	15	25	7.40	22
																	15	100	9.27	28
																	13	5	5.71	13
1.02	CALCULATION POINT	A3	0.85	0.77	234	100	0.10	10	30	U	0.02	2.3	0.2	104	6.0	0.3	13	25	7.96	18
																	13	100	10.02	23
																	10	5	6.36	4
1.02A	DRAIN A1 COMBINED	A1+A2+A3	8.04	0.74	Reference Accumulated Flow Rates Table												10	25	-	33
					100	47	-	47												
					100	-	-	59												
2.00	DRAIN B	B1	2.42	0.68	543	100	0.03	12	152	U	0.01	1.6	1.6	291	6.0	0.8	14	5	5.51	9
3.00	CURB INLET ON SAG	C1	2.90	0.77	571	100	0.05	11	180	U	0.11	5.4	0.6	291	6.0	0.8	14	25	7.67	13
																	14	100	9.64	16
																	12	5	5.92	13
3.01	CURB INLET ON GRADE	C2	5.23	0.77	1,012	100	0.05	11	160	U	0.08	4.5	0.6	752	6.0	2.1	12	25	8.25	18
																	12	100	10.41	23
																	13	5	5.71	23
3.02	CURB INLET ON GRADE	C3	2.72	0.77	840	100	0.01	15	30	U	0.02	2.4	0.2	710	6.0	2.0	13	25	7.96	32
																	17	100	8.64	18
																	13	100	10.02	40
3.03	CALCULATION POINT	C4	0.89	0.77	247	100	0.12	9	54	U	0.03	3.0	0.3	93	6.0	0.3	9	5	6.60	5
																	9	25	9.23	6
																	9	100	11.68	8
3.03A	DRAIN C1 COMBINED	C1+C2+C3+C4	11.74	0.77	Reference Accumulated Flow Rates Table												5	-	-	49
					25	-	-	62												
					100	-	-	78												
4.00	CALCULATION POINT	D1	2.80	0.77	160	100	0.05	11	60	U	0.17	6.7	0.2	-	-	-	11	5	6.13	13
																	11	25	8.56	19
																	11	100	10.81	23
4.00A	COMBINED CALCULATION POINT	B1+D1	5.22	0.73	777	100	0.05	11	60	U	0.17	6.7	0.2	617	6.0	1.7	12	5	5.92	23
																	12	25	8.25	31
																	12	100	10.41	40
5.00	DRAIN D1-B	E1	1.15	0.77	421	100	0.03	12	152	U	0.12	5.6	0.5	169	6.0	0.5	12	5	5.92	5
																	12	25	8.25	7
																	12	100	10.41	9
5.00A	DRAIN D1-A COMBINED	E1	1.15	0.77	Reference Accumulated Flow Rates Table												5	-	-	7
					25	-	-	16												
					100	-	-	27												
6.00	CALCULATION POINT	F1	9.24	0.59	695	100	0.06	11	595	U	0.07	4.3	2.3	-	-	-	13	5	5.71	31
																	13	25	7.96	43
																	13	100	10.02	55
7.00	INTERCEPTOR DRAIN E1	G1	0.89	0.55	987	100	0.07	10	600	U	0.06	4.0	2.5	287	6.0	0.8	13	5	5.71	3
																	13	25	7.96	4
																	13	100	10.02	4

Rational Method Time of Concentration
*Seelye Chart or TR-55 Eqn. 3-3
**As Calculated using Mannings or TR-55 Figure 3-1 or 6 ft/s
 $T_o = \frac{(0.0007(n+L)^{0.8})}{(P^{2.5}S^{0.4})} + 60$

From TR-55 Figure 3-4**
 $v = \frac{k}{n} R^{2/3} S^{1/2}$
 $k = 1.486 \text{ ft}^{1/3}/\text{s}$

S: For Streets: $n = 0.018$, $R = 0.2$ (Adapted from Mannings)
P: For Paved: $n = 0.025$, $R = 0.2$
U: For Unpaved: $n = 0.05$, $R = 0.4$
D: For Default: $v = 6 \text{ fps}$

DATE

NO. REVISION

STATE OF TEXAS

BRUNA F. SPENGLER

127547

PROFESSIONAL ENGINEER

6/19/23

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TYPE FIRM REGISTRATION #470 | TPELS FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE

SAN ANTONIO, TEXAS

MASTER DRAINAGE PLAN

PLAT NO. 22-11800410

JOB NO. 12125-08

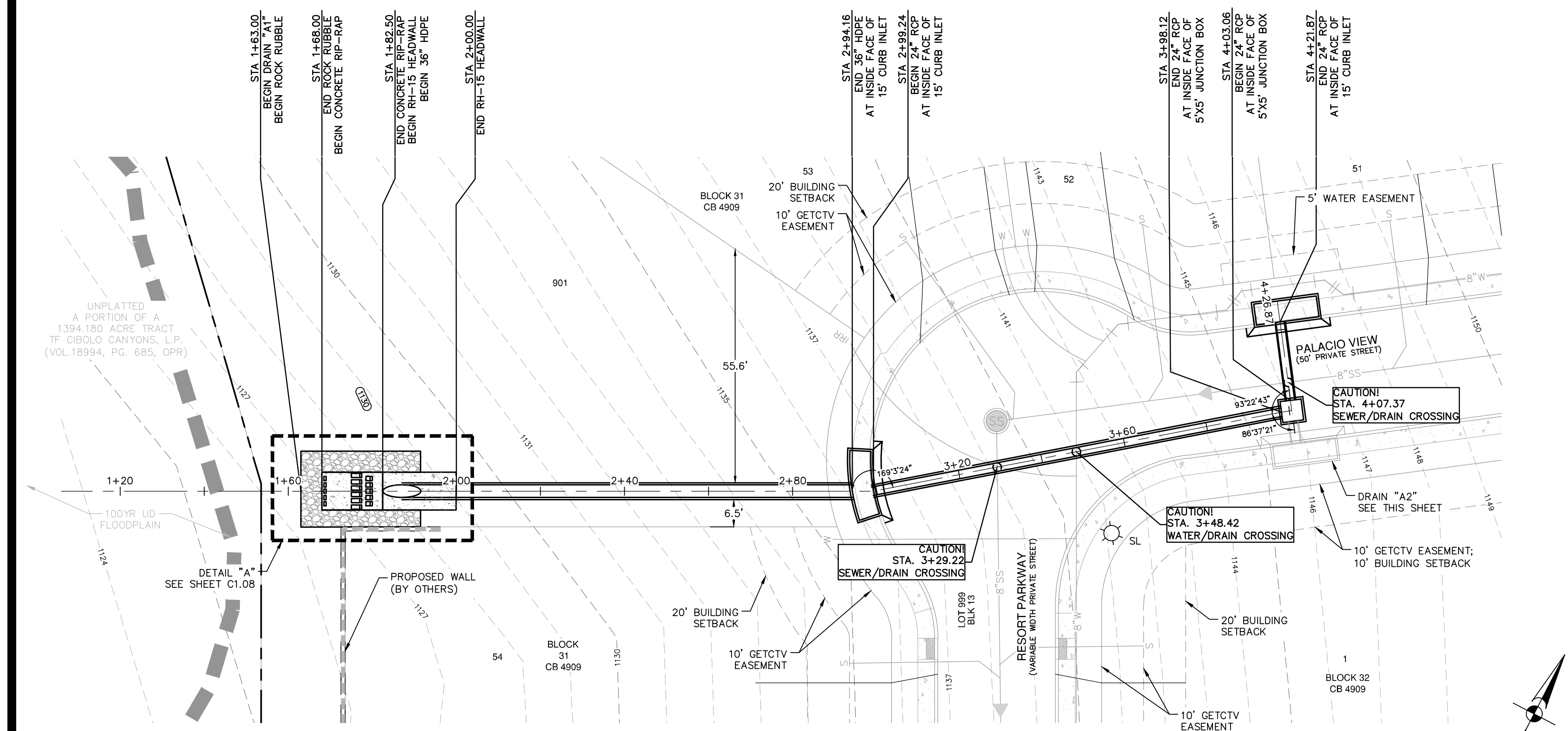
DATE JUNE 2023

DESIGNER CB

CHECKED BS DRAWN FP

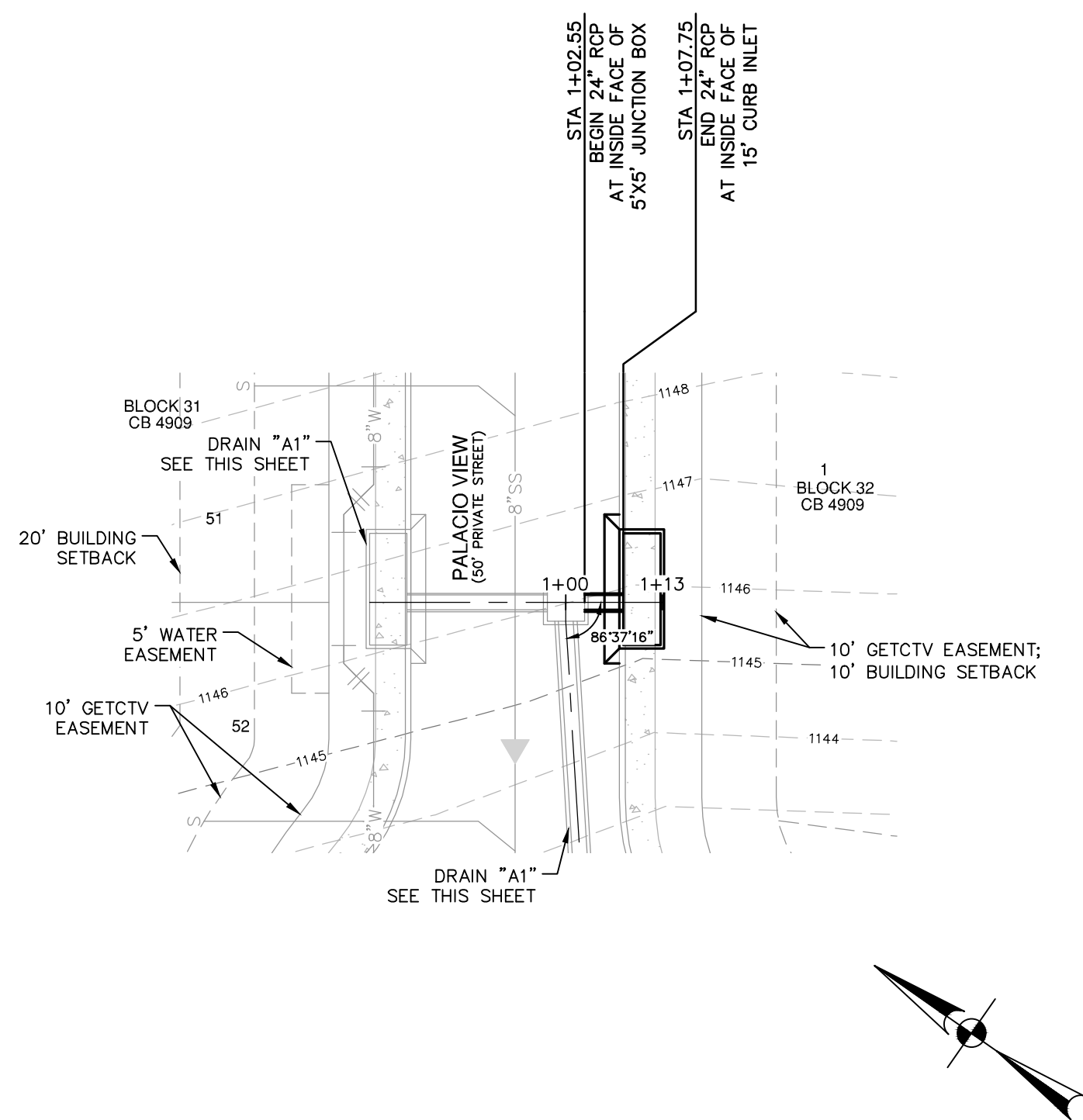
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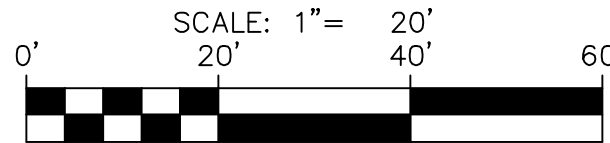


DRAIN "A1"
STA. 1+60.00 TO END

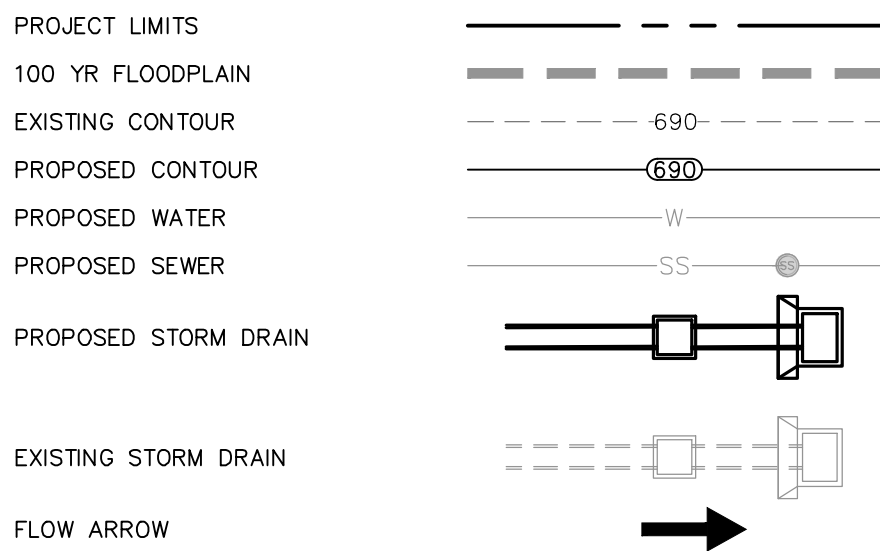
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



DRAIN "A2"
STA. 1+02.55 TO END



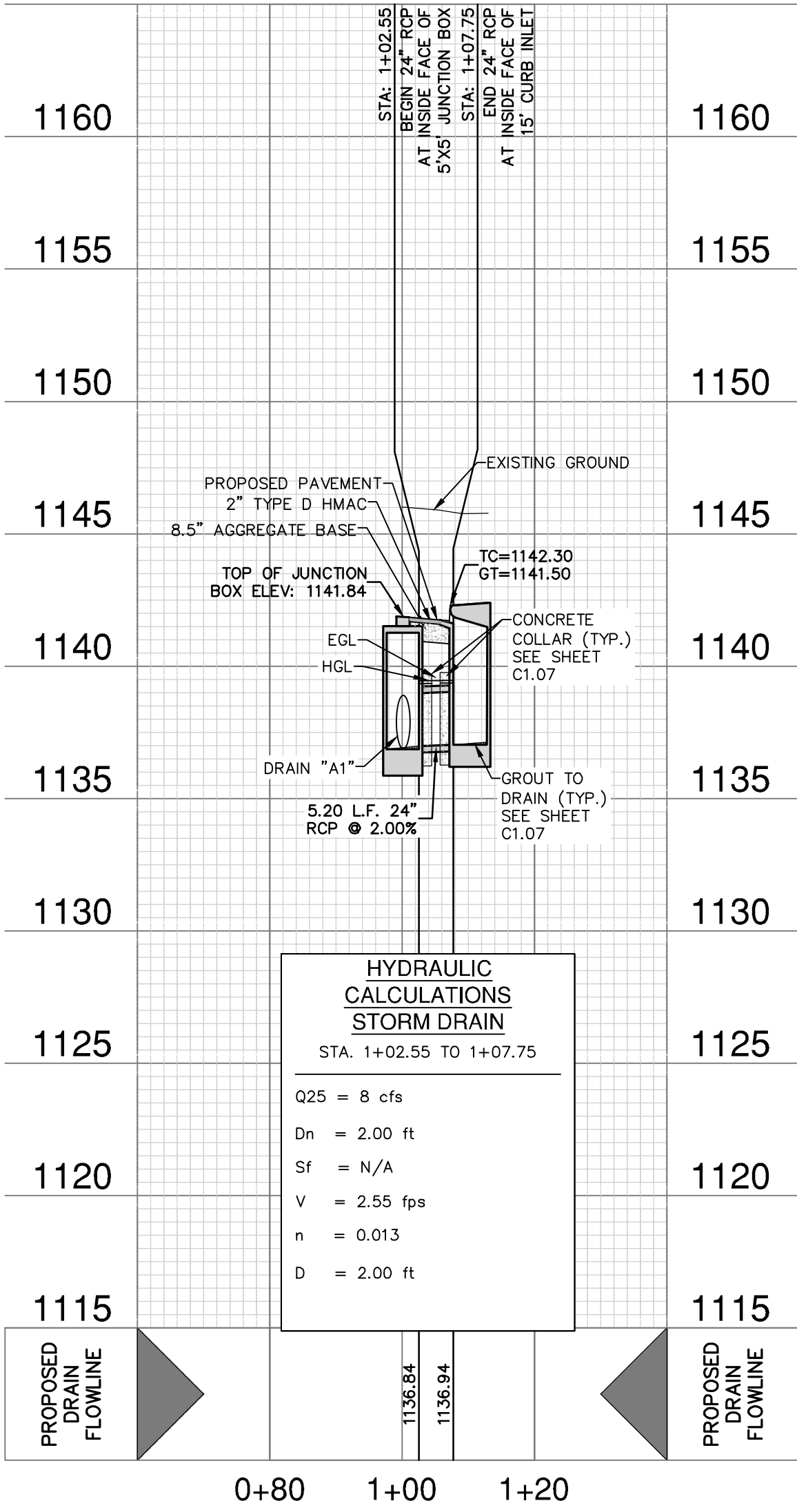
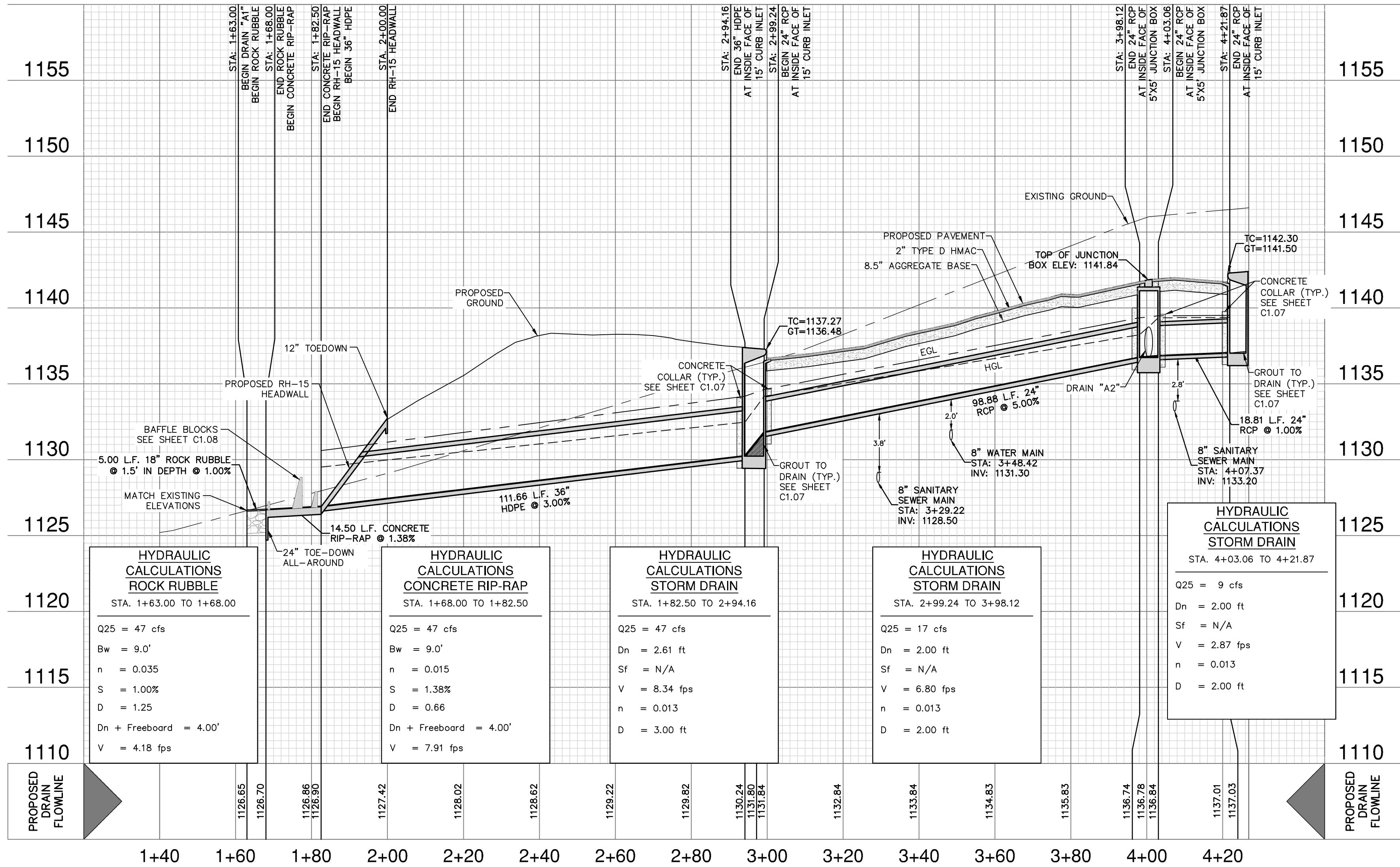
DRAINAGE LEGEND



HYDRAULIC CALCULATIONS—DRAIN "A1"—DOWNSTREAM

$Q_{25} = 29.0 \text{ CFS}$
 $Q_{25} = CA\sqrt{2gh} \text{ (ORIFICE FLOW EQN.)}$
 $A = L(0.44), h = 0.56, g = 32.2, c = 0.77$
 $L = \frac{29.0 \text{ CFS}}{(0.77)(0.56)/2(32.2)(0.50)}$
 $L = 11.85 \text{ FT}$ USE 1 ~ 15 FT CURB INLET EACH SIDE

CHECK WITH WEIR FORMULA
 $h = \left(\frac{Q}{CL}\right)^{2/3} = \left(\frac{29.0}{(3.087)(15)}\right)^{2/3} = 0.73 \text{ FT.}$
 $h = 0.73 < 0.79$ OK



DRAINAGE & GRADING NOTES:

- THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
- REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
- CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
- EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
- CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

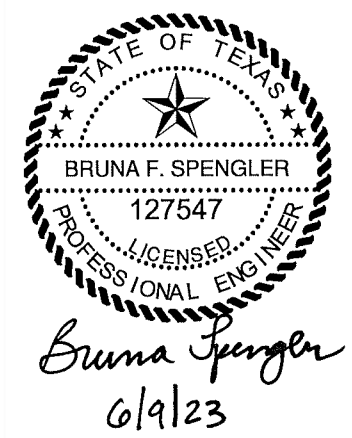
TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

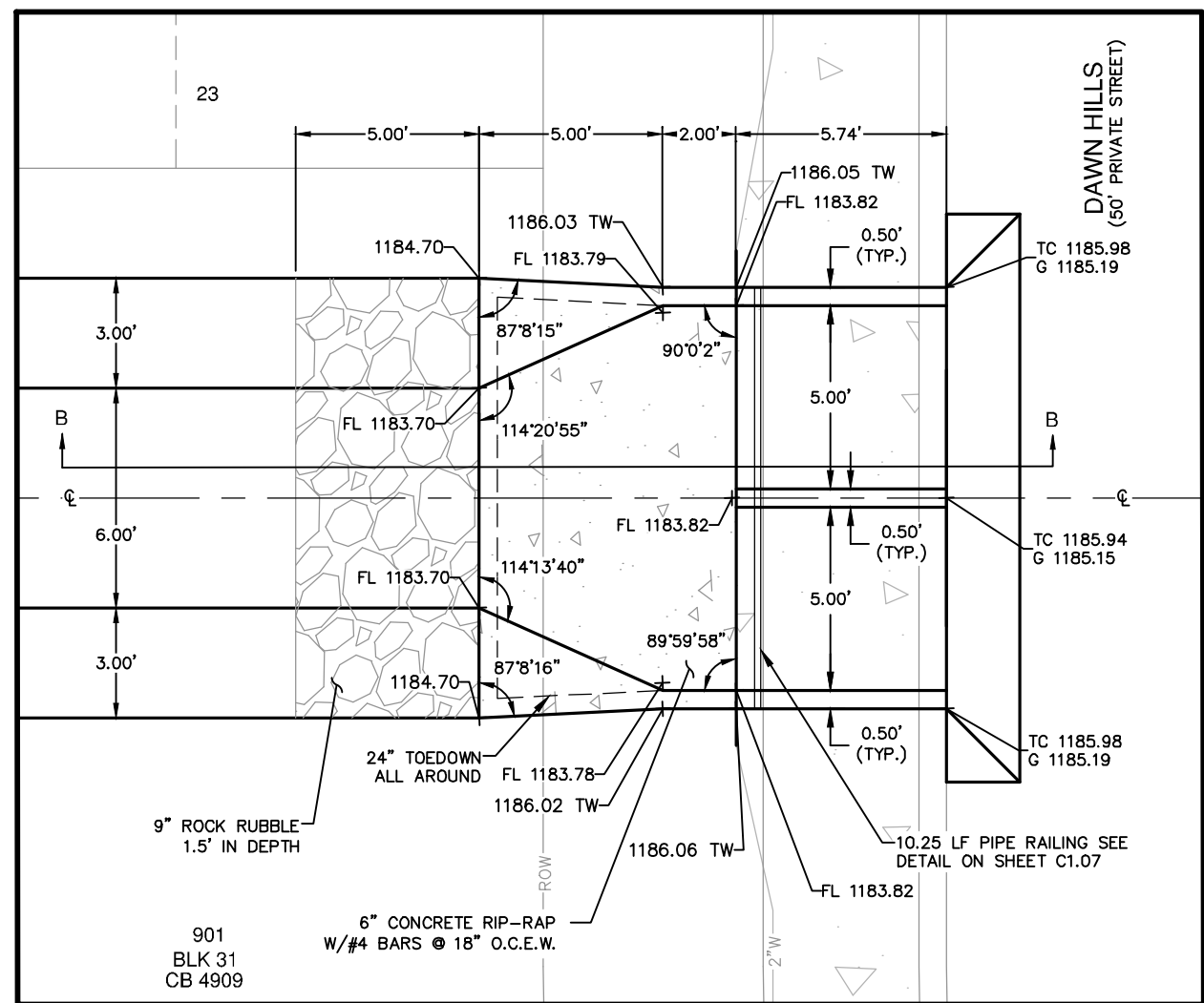
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NO.	REVISION



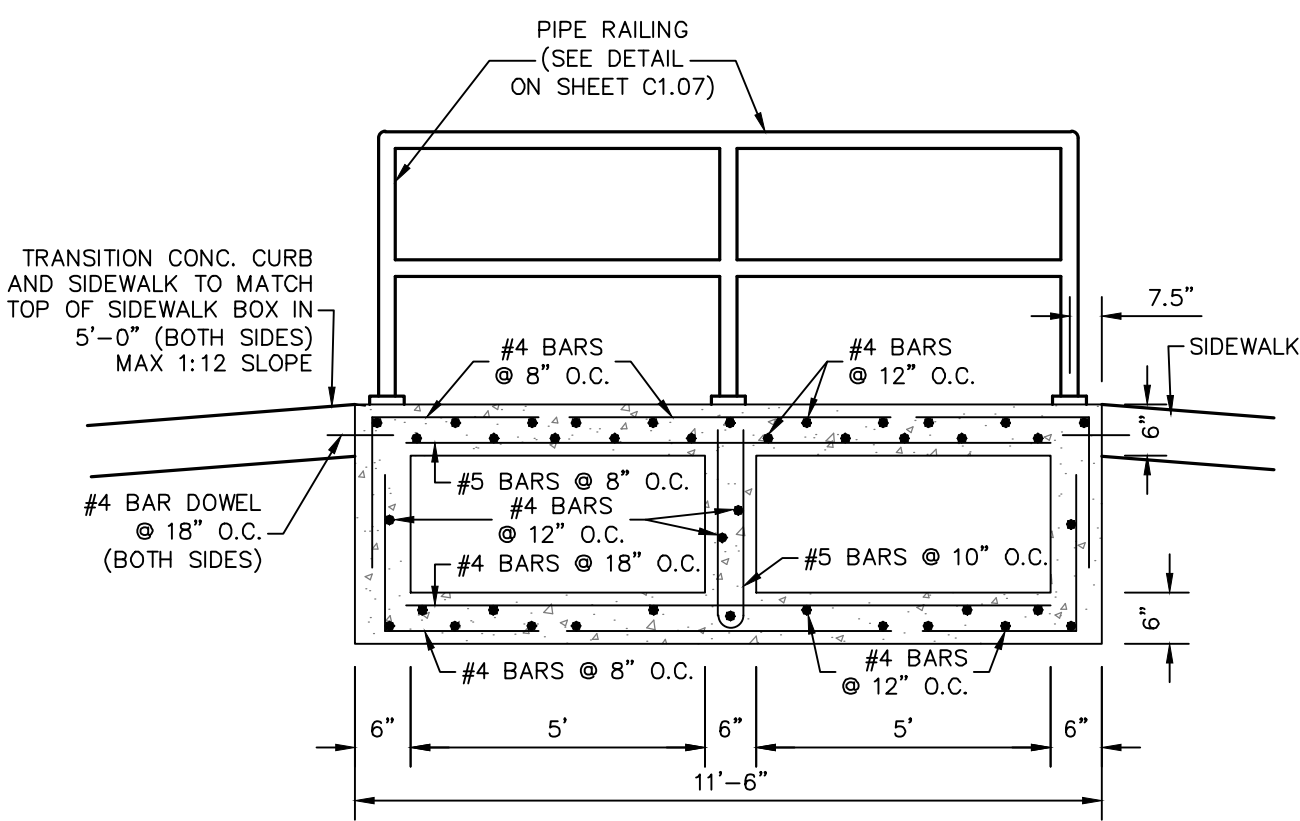
PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
DRAIN "A1" & DRAIN "A2" PLAN & PROFILE
DRAIN "A1" STA. 1+60.00 TO END
DRAIN "A2" STA. 1+02.55 TO END

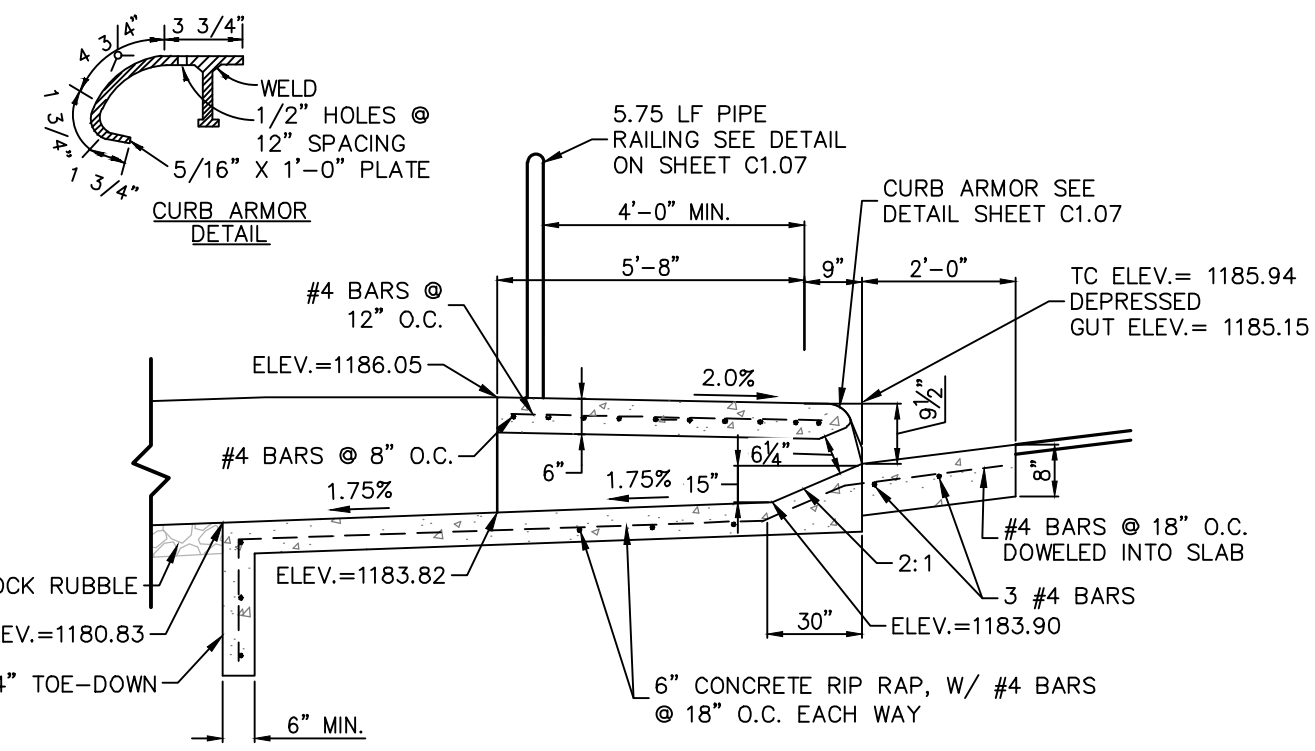
PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	JUNE 2023
DESIGNER	CB
CHECKED	BS
DRAWN	FP
SHEET	C1.01



DETAIL "B"
SCALE: 1" = 5'



SIDEWALK DOUBLE
BOX DETAIL
NOT-TO-SCALE



SIDEWALK BOX DETAIL SECTION "B-B"
NOT-TO-SCALE

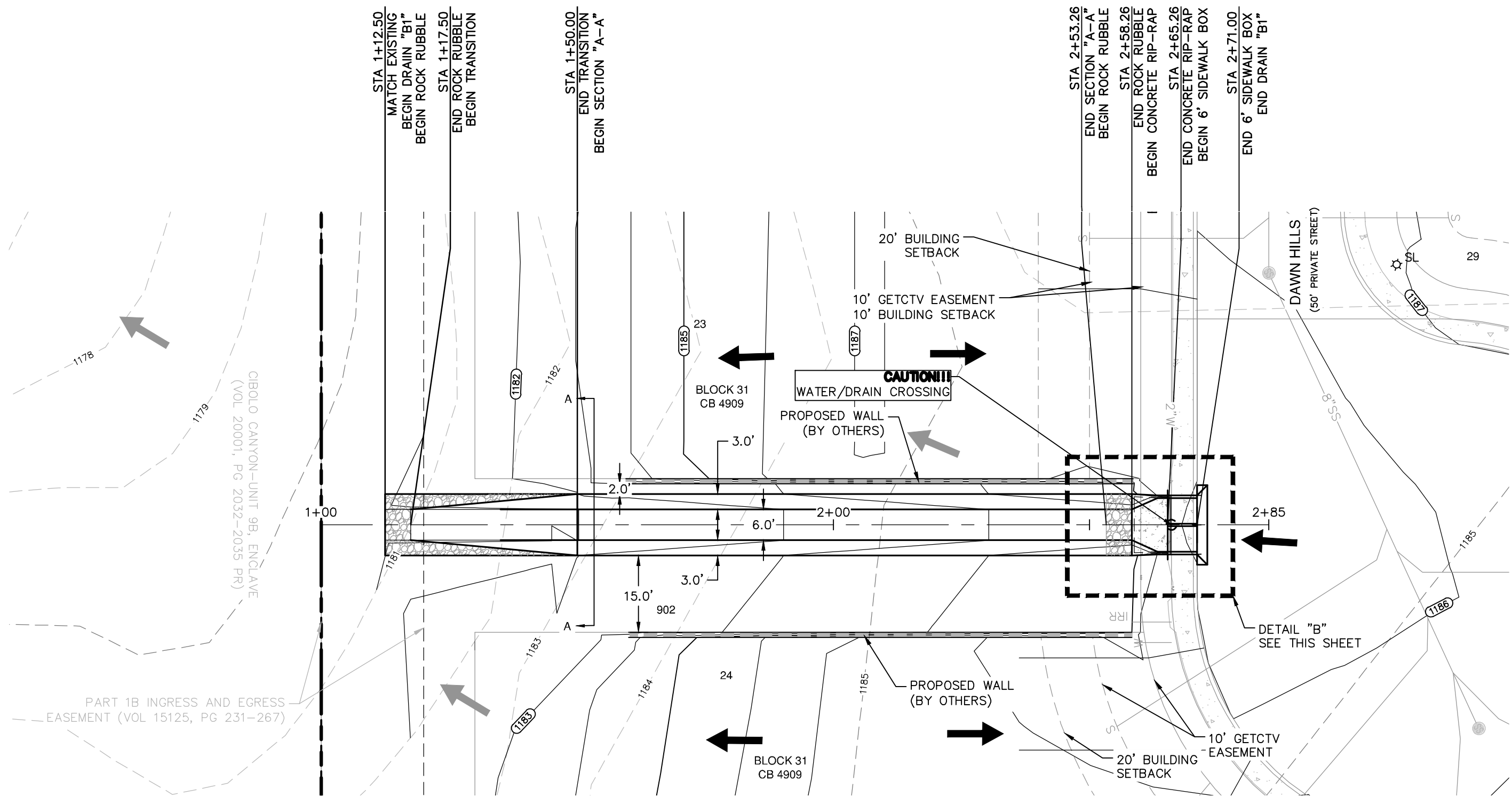
HYDRAULIC CALCULATIONS CONCRETE RIP-RAP STA. 2+58.26 TO 2+65.26	
Q25 = 13 cfs	
Bw = VAIRES - 6' MIN.	
n = 0.015	
S = 1.75%	
Dn = 0.21'	
Dn + Freeboard = 1.00'	
Vn = 4.31 fps	

HYDRAULIC CALCULATIONS ROCK RUBBLE STA. 1+12.50 TO 1+17.50	
Q25 = 13 cfs	
Bw = 6.00'	
n = 0.035	
S = 0.50%	
Dn = 0.76'	
Dn + Freeboard = VARIES 1.00' MAX	
Vn = 2.07 fps	

HYDRAULIC CALCULATIONS EARTHEN CHANNEL STA. 1+17.50 TO 1+50.00	
Q25 = 13 cfs	
Bw = 6.00'	
n = 0.035	
S = 0.50%	
Dn = 0.76'	
Dn + Freeboard = VARIES 1.00' MAX	
Vn = 2.07 fps	

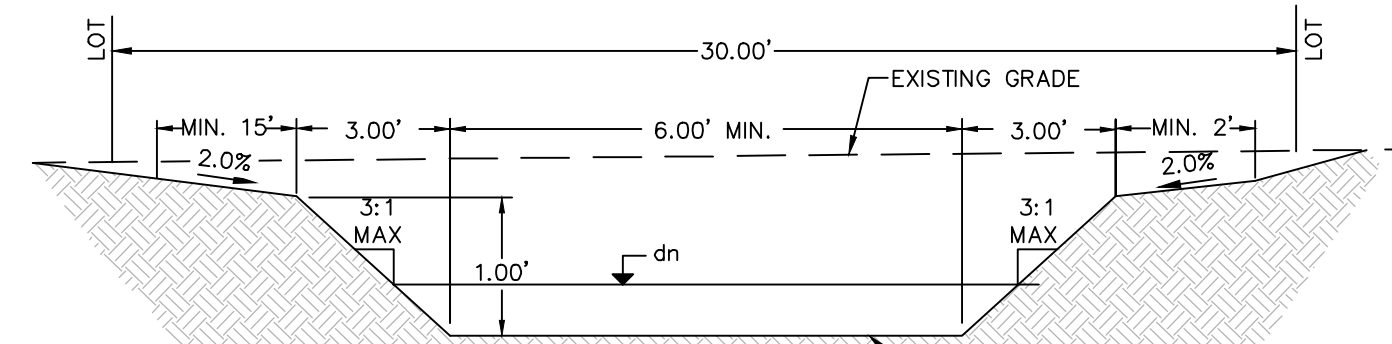
HYDRAULIC CALCULATIONS EARTHEN CHANNEL STA. 1+50.00 TO 2+53.26	
Q25 = 13 cfs	
Bw = 6.00'	
n = 0.035	
S = 2.50%	
Dn = 0.49'	
Dn + Freeboard = 1.00'	
Vn = 3.55 fps	

HYDRAULIC CALCULATIONS ROCK RUBBLE STA. 2+53.26 TO 2+58.26	
Q25 = 13 cfs	
Bw = 6.00'	
n = 0.035	
S = 2.50%	
Dn = 0.49'	
Dn + Freeboard = 1.00'	
Vn = 3.55 fps	



DRAIN "B1"
STA. 1+30.00 TO END

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



DRAIN "B1" SECTION "A-A"
NOT-TO-SCALE
STA. 1+50.00 TO STA. 2+53.26

DRAINAGE & GRADING NOTES:

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- EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
- CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

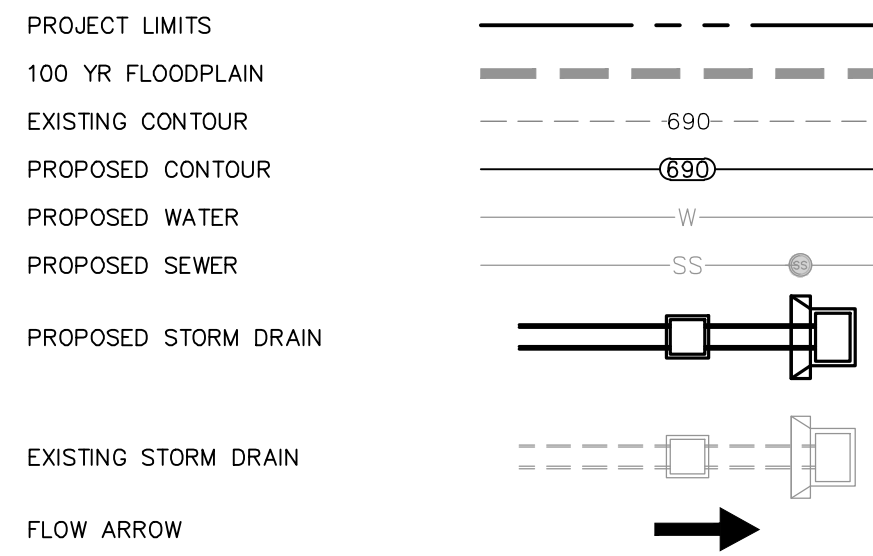
TRENCH EXCAVATION SAFETY PROTECTION:

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CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

DRAINAGE LEGEND



HYDRAULIC CALCULATIONS--DRAIN "B1"

$Q_{25} = 13.0 \text{ CFS}$
 $Q_{25} = CA\sqrt{2gh}$ (ORIFICE FLOW EQN.)
 $A = L(0.50), h = 0.52, g = 32.2, c = 0.70$
 $L = \frac{13.0 \text{ CFS}}{(0.70)(0.52)/2(32.2)(0.52)}$
 $L = 6.17 \text{ FT}$ USE 2 ~ 5 FT SIDEWALK BOXES

CHECK WITH WEIR FORMULA
 $h = \left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{13.0}{(3.087)(10)}\right)^{2/3} = 0.56 \text{ FT.}$
 $h = 0.56 < 0.79$ OK

DATE: _____

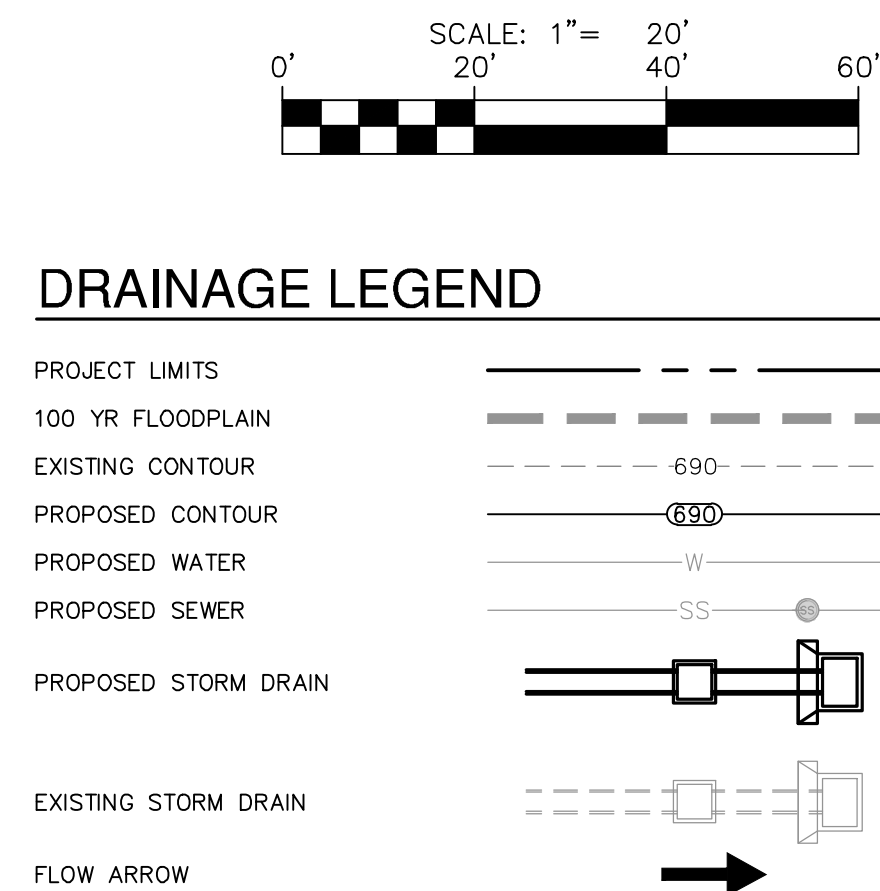
NO. REVISION: _____

STATE OF TEXAS
BRUNA F. SPENGLER
127547
PROFESSIONAL ENGINEER
6/19/23

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78211 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #10028600

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
DRAIN "B1" PLAN & PROFILE STA. 1+30.00 TO END

PLAT NO. 22-11800410
JOB NO. 12125-08
DATE JUNE 2023
DESIGNER CB
CHECKED BS DRAWN FP
SHEET C1.02



$Q_{25} = 21 \text{ CFS}$
 $Q_{25} = CA \sqrt{2gH} \quad (\text{ORIFICE FLOW EQN.})$
 $A = L(0.50), \quad h = 0.56, \quad g = 32.2, \quad c = 0.77$

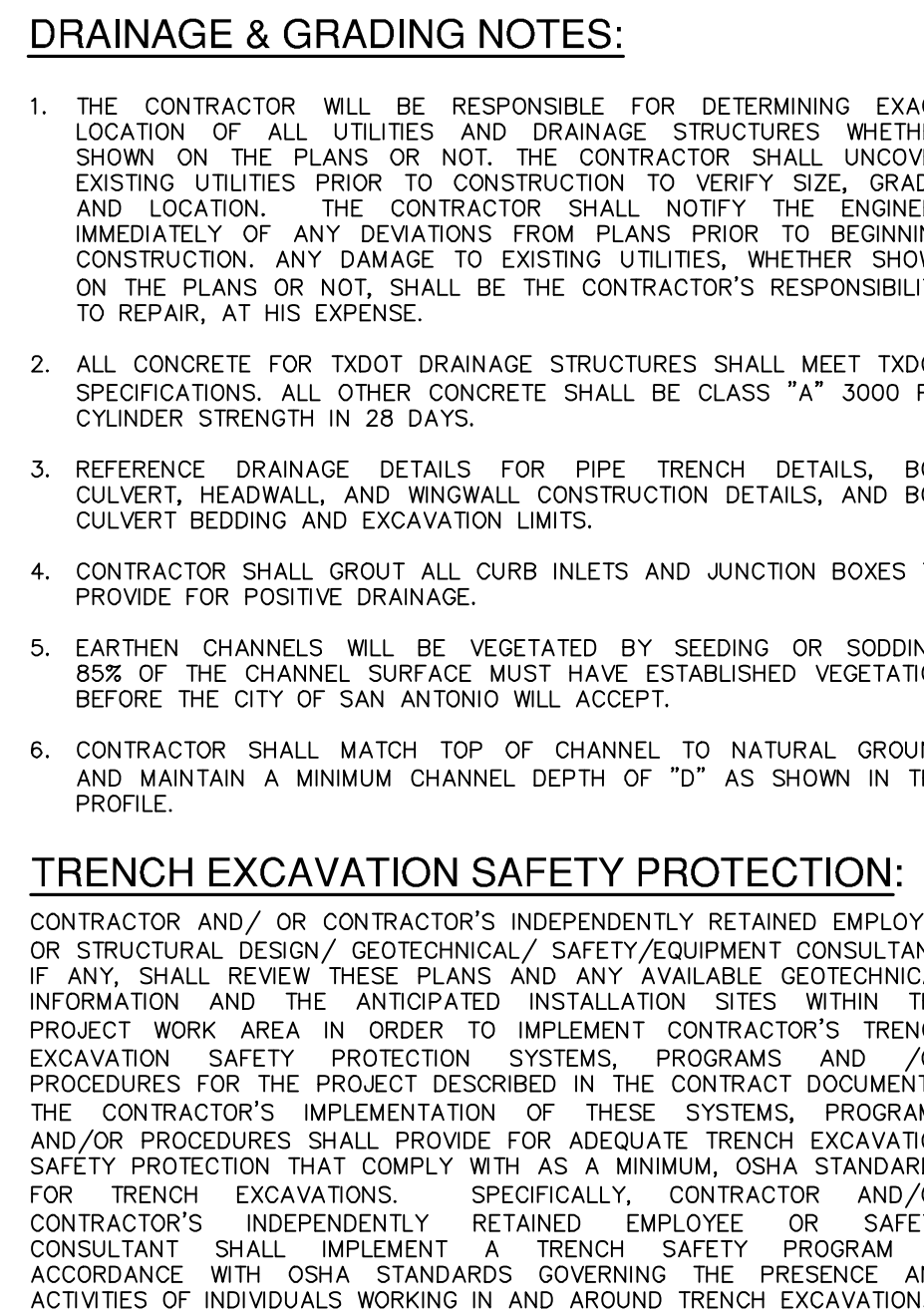
$$L = \frac{21 \text{ CFS}}{(0.77) (0.52) \sqrt{2 (32.2) (0.56)}}$$

 $L = 9.25 \text{ FT} \quad \text{USE } 1 \sim 10 \text{ FT CURB INLET}$

CHECK WITH THEIR FORMULA

$$h = \left(\frac{Q}{(CL)} \right)^{2/3} = \left(\frac{21}{(3.087) (25)} \right)^{2/3} = 0.42 \text{ FT.}$$

$h = 0.42 < 0.79 \quad \text{OK}$

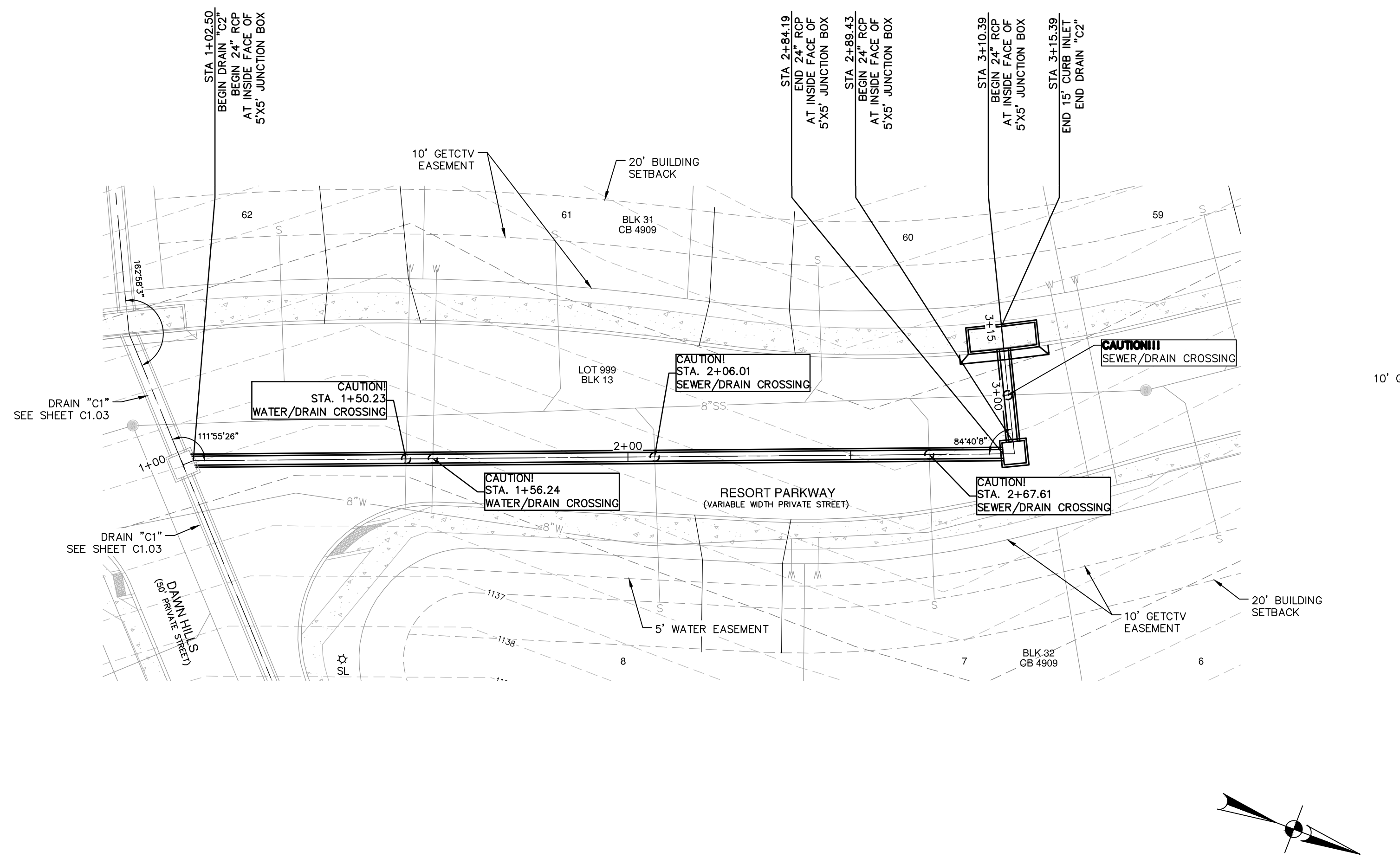


CAUTION!!

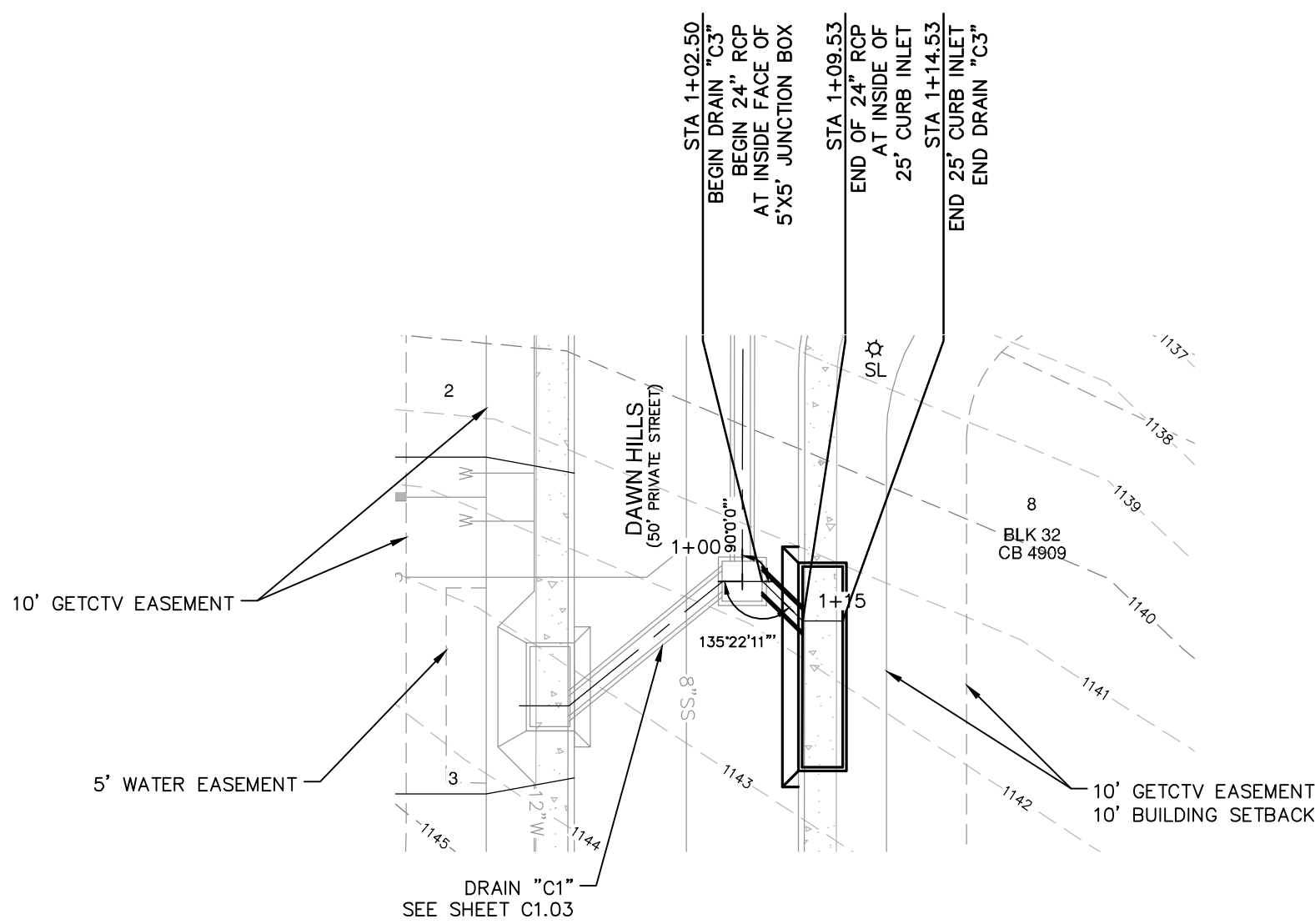
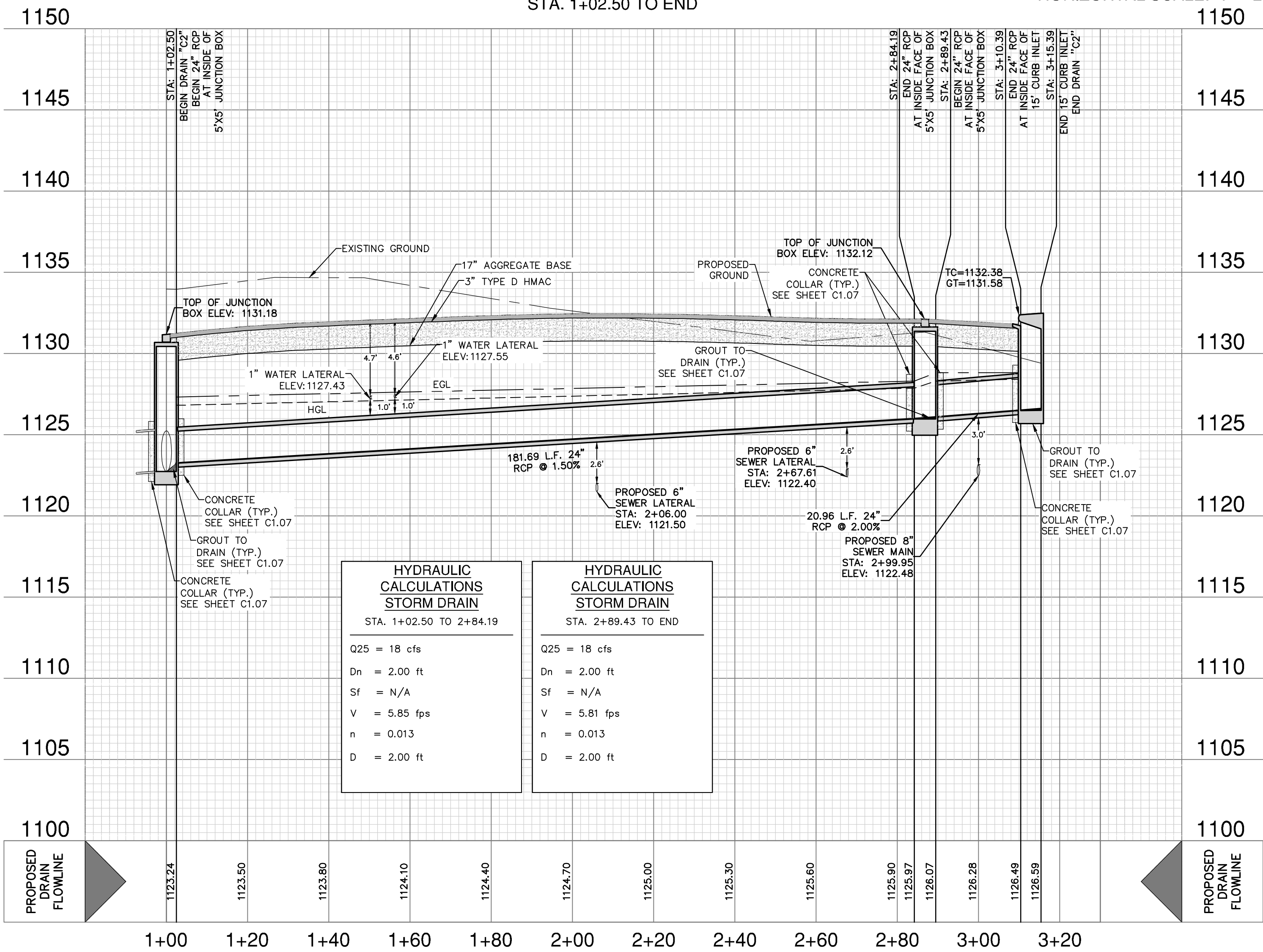
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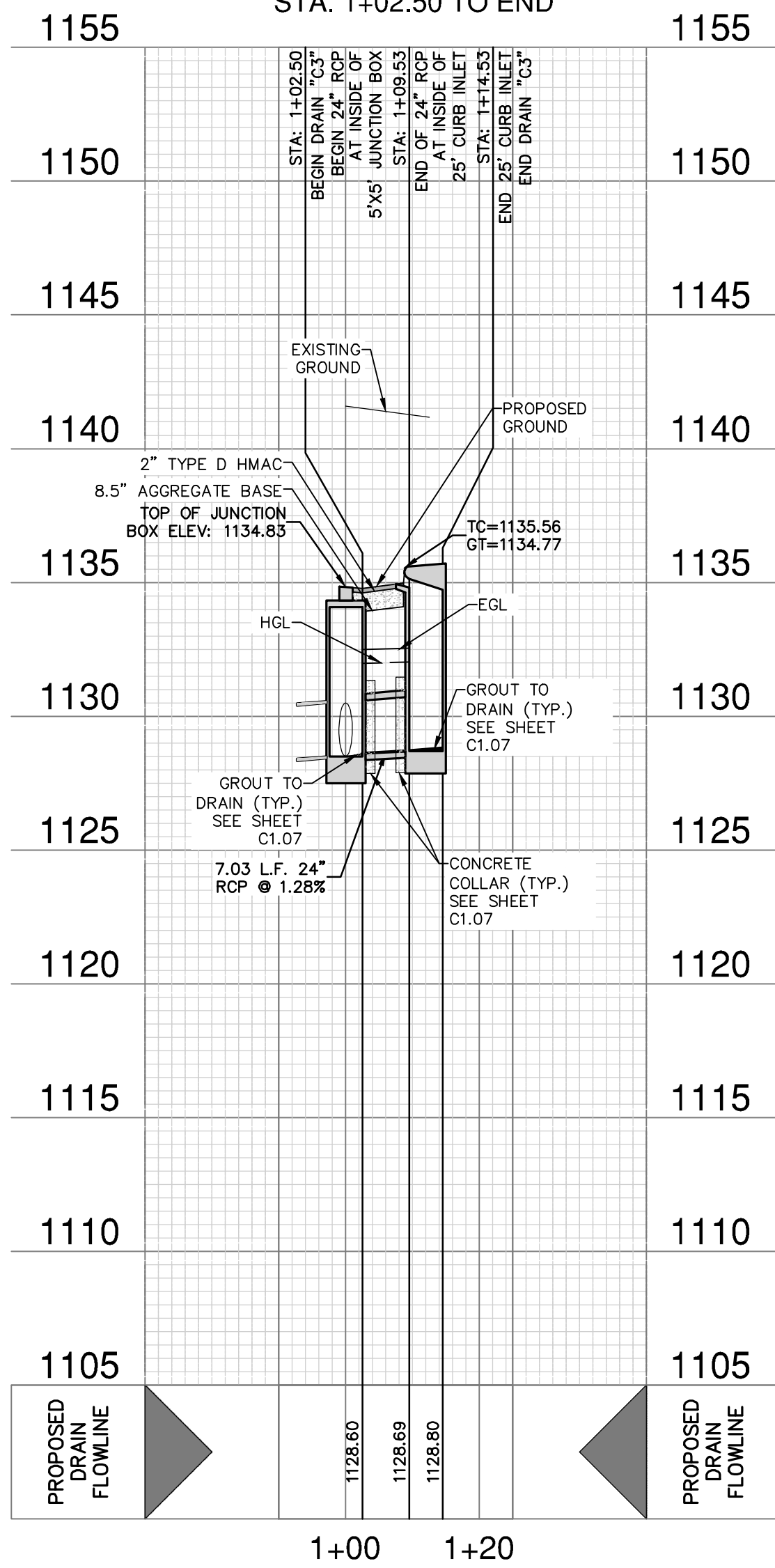
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE UNLESS OTHERWISE NOTED. Imagery © 2016, CAPOCO, Digital Globe, Texas Orthomapsy Program, USDA Farm Service Agency.



DRAIN "C2"
STA. 1+02.50 TO END
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



DRAIN "C3"
STA. 1+02.50 TO END
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



HYDRAULIC CALCULATIONS STORM DRAIN	
STA. 1+02.50 TO 1+14.53	
Q25 = 18 cfs	
Dn = 2.00 ft	
Sf = N/A	
V = 5.73 fps	
n = 0.013	
D = 2.00 ft	

DRAINAGE LEGEND

PROJECT LIMITS	---
100 YR FLOODPLAIN	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
PROPOSED WATER	---
PROPOSED SEWER	---
PROPOSED STORM DRAIN	---
EXISTING STORM DRAIN	---
FLOW ARROW	---

HYDRAULIC CALCULATIONS—DRAIN "C2"

$$Q_{25} = 18.0 \text{ CFS}$$
$$Q_{25} = CA\sqrt{2gh} \text{ (ORIFICE FLOW EQN.)}$$
$$A = L(0.44), h = 0.56, g = 32.2, c = 0.77$$
$$L = \frac{18.0 \text{ CFS}}{(0.77)(0.56)/2(32.2)(0.50)}$$
$$L = 7.36 \text{ FT} \quad \text{USE } 1 \sim 15 \text{ FT CURB INLET}$$

CHECK WITH THEIR FORMULA

$$h = \left(\frac{Q}{(CL)} \right)^{2/3} = \left(\frac{18.0}{(3.087)(15)} \right)^{2/3} = 0.53 \text{ FT.}$$

$h = 0.53 < 0.79 \quad \text{OK}$

DRAINAGE & GRADING NOTES:

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- ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
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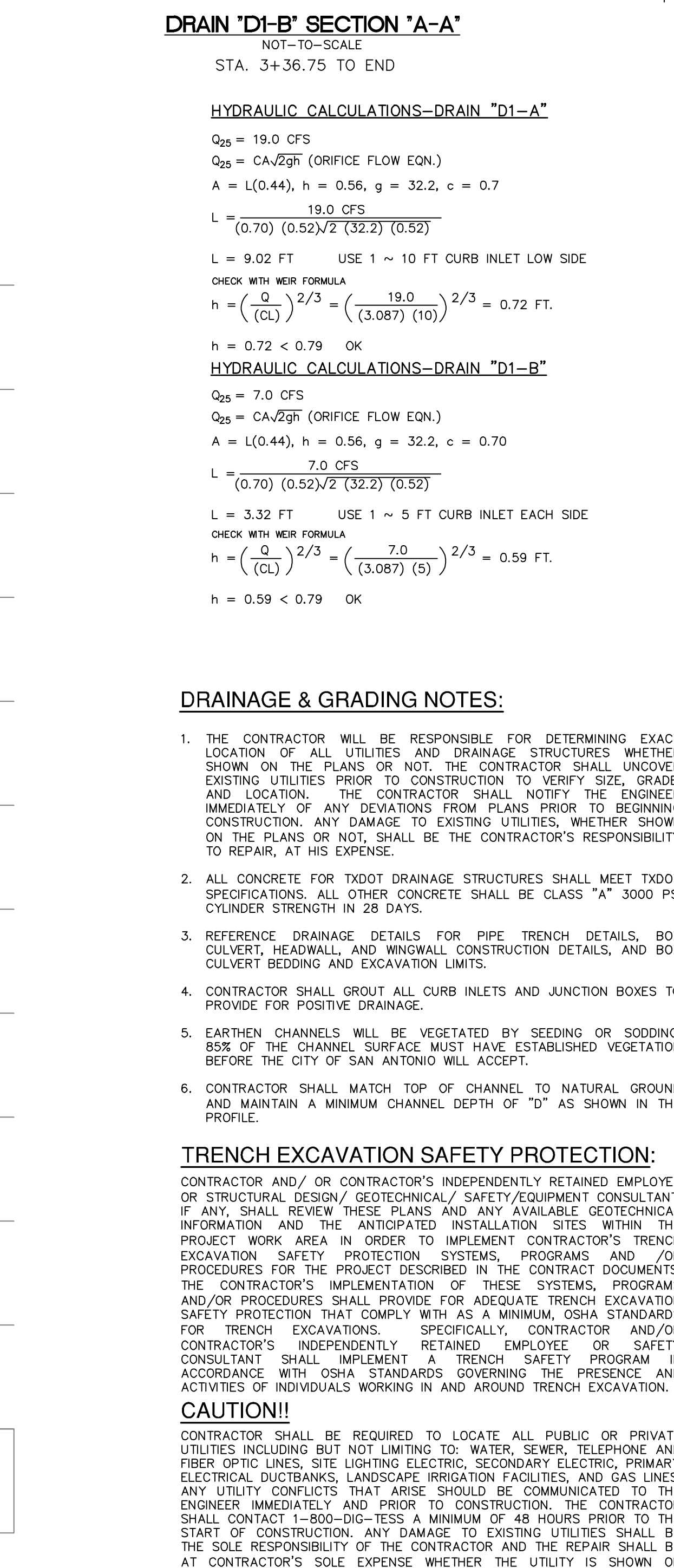
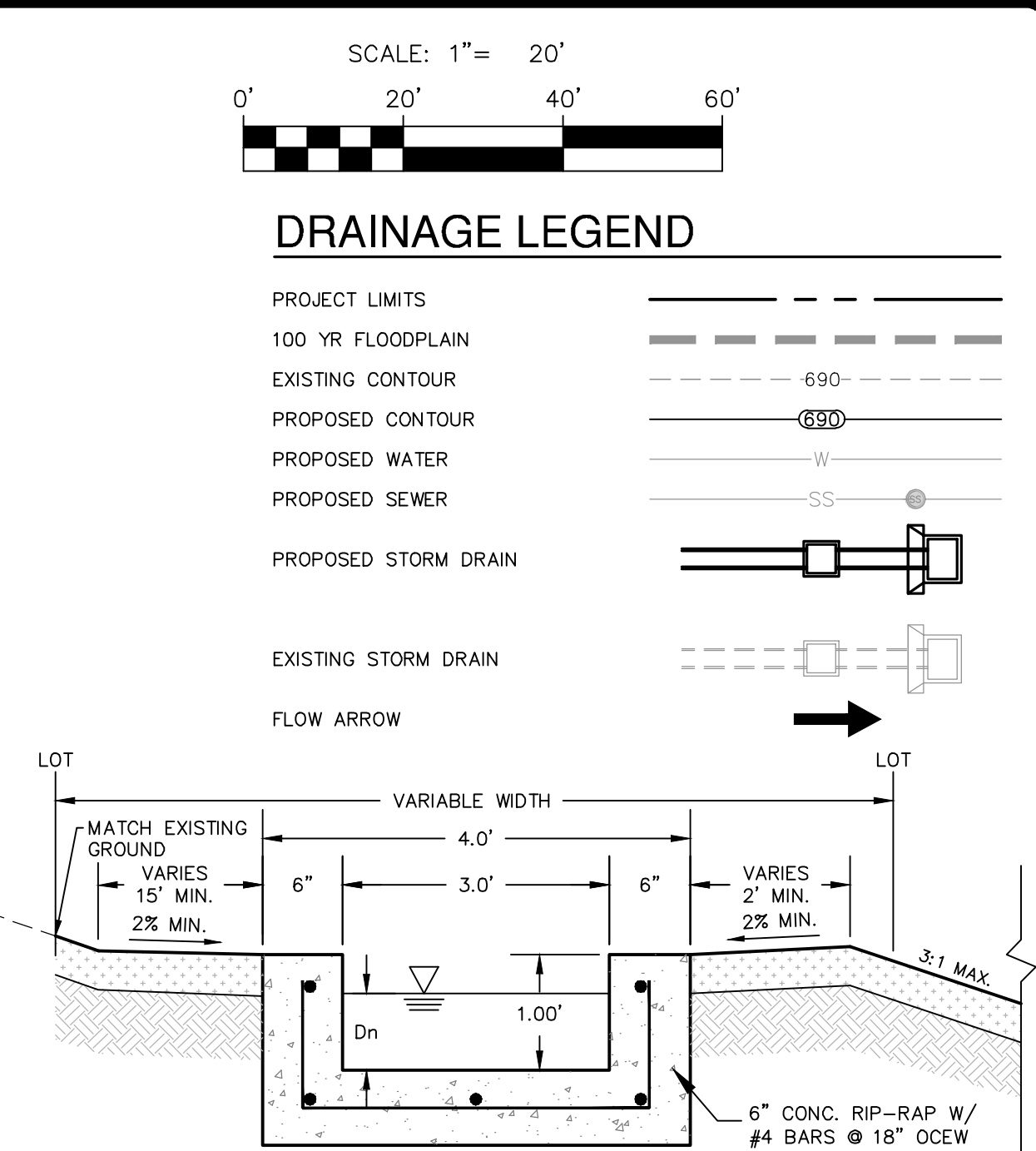
CAUTION!!

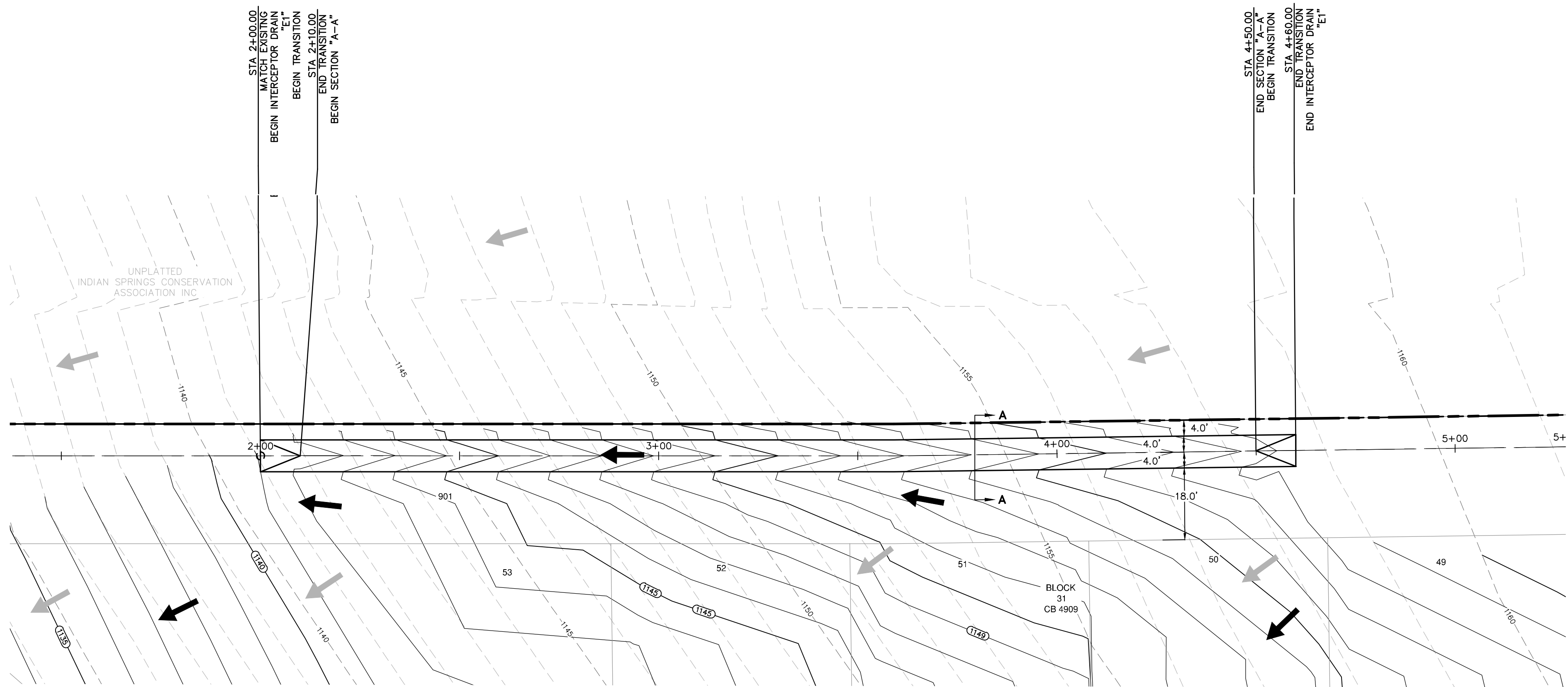
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PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #10028600

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
DRAIN "C2" & DRAIN "C3" PLAN & PROFILE
DRAIN "C2" STA. 1+02.50 TO END
DRAIN "C3" STA. 1+02.50 TO END

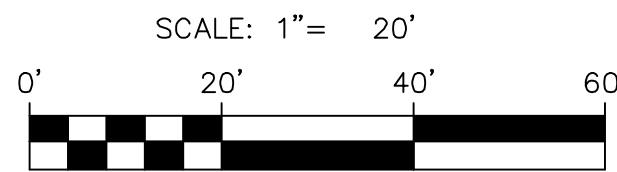
PLAT NO. 22-11800410
JOB NO. 12125-08
DATE JUNE 2023
DESIGNER CB
CHECKED BS DRAWN FP
SHEET C1.04



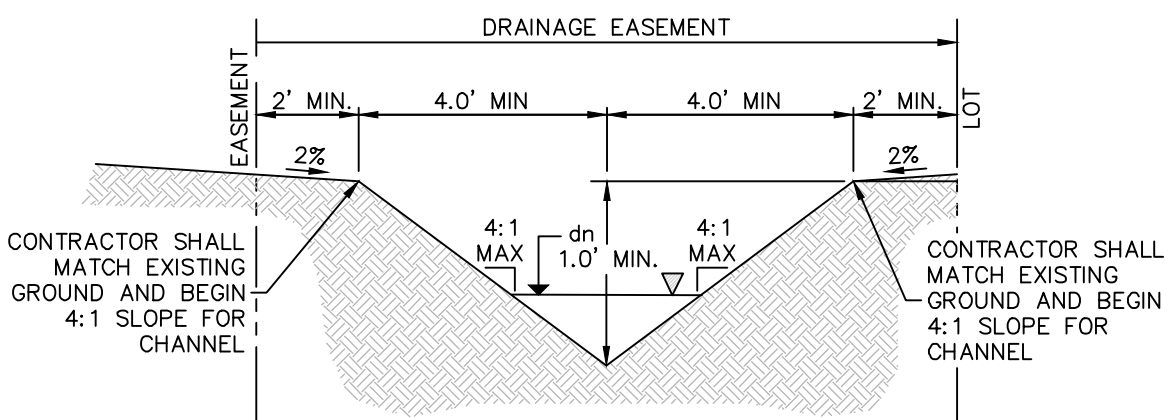
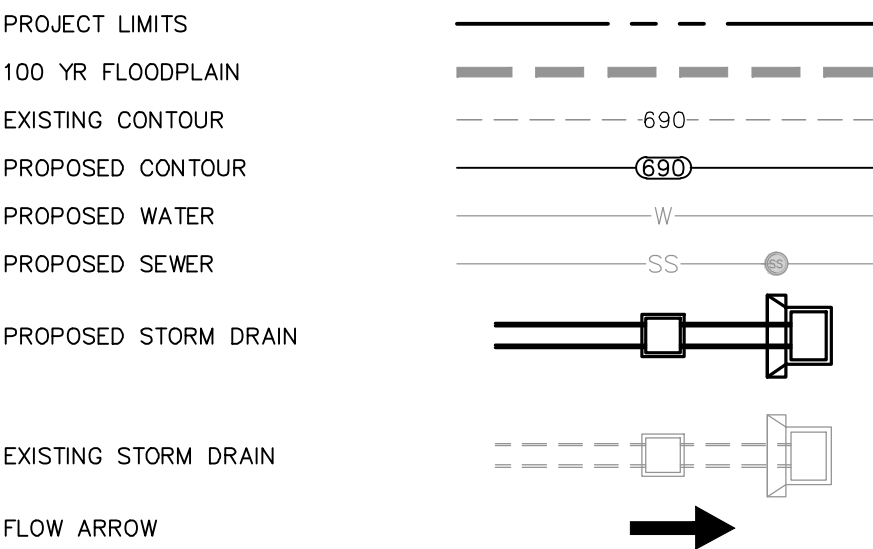


INTERCEPTOR DRAIN "E1"
STA. 2+00.00 TO 4+60.00

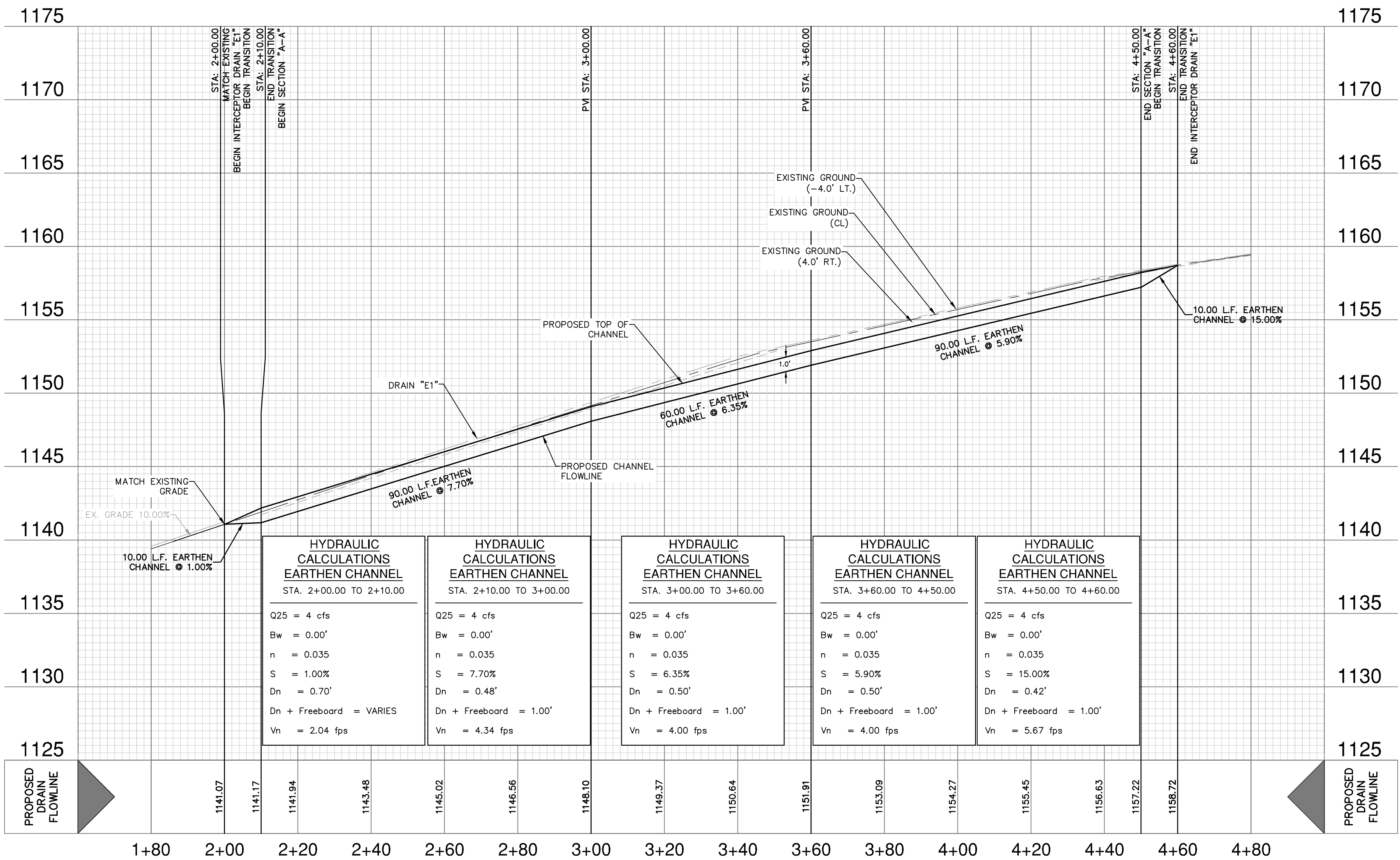
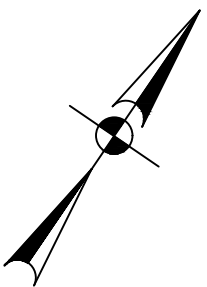
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



DRAINAGE LEGEND



INTERCEPTOR "E1" CHANNEL
SECTION "A-A"
STA 2+10.00 TO STA 4+50.00
NOT-TO-SCALE



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CAUTION!!

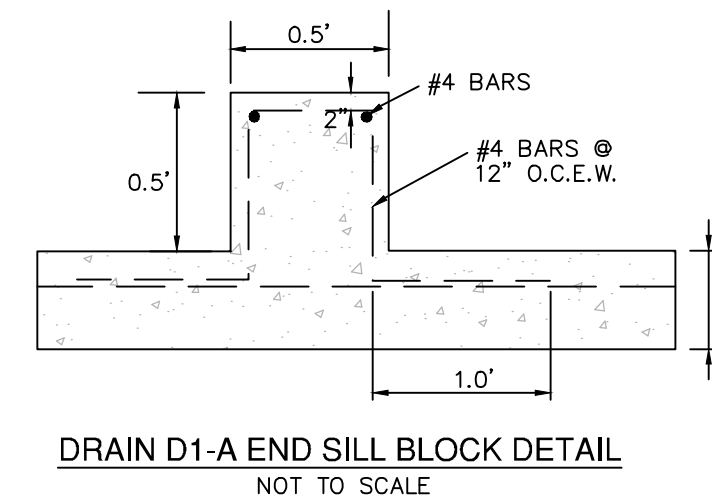
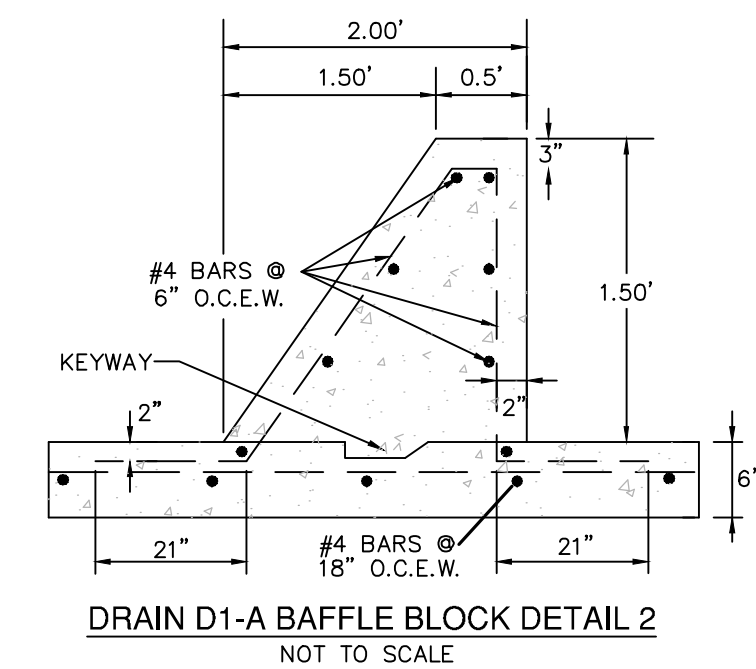
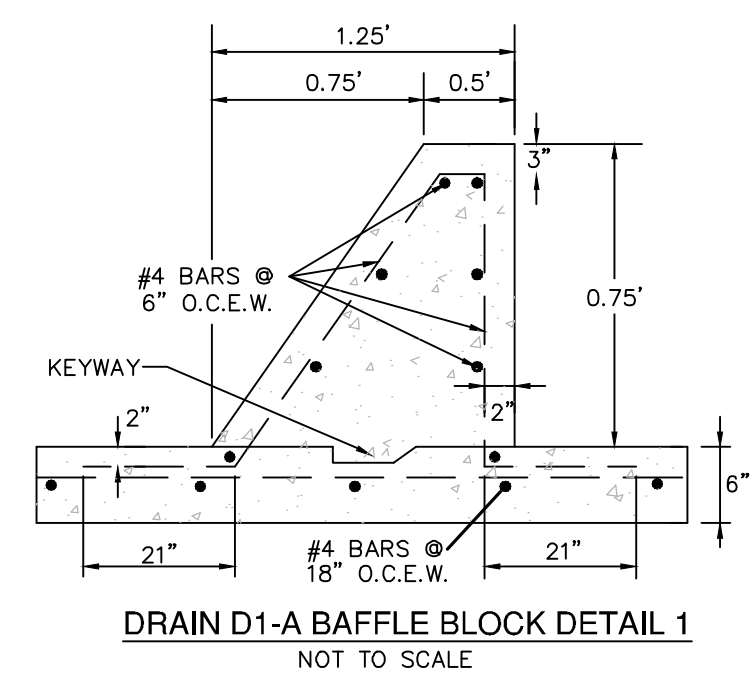
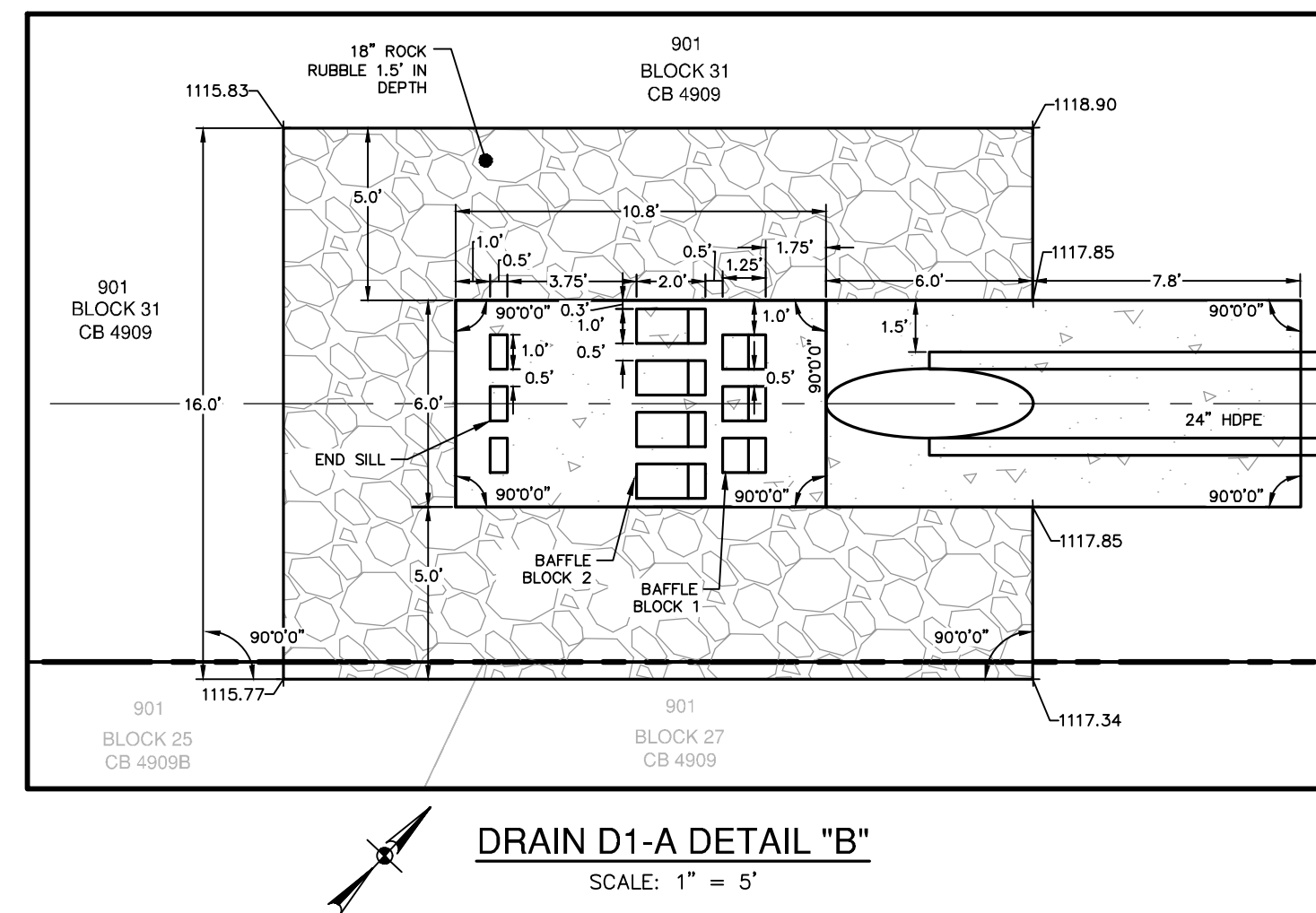
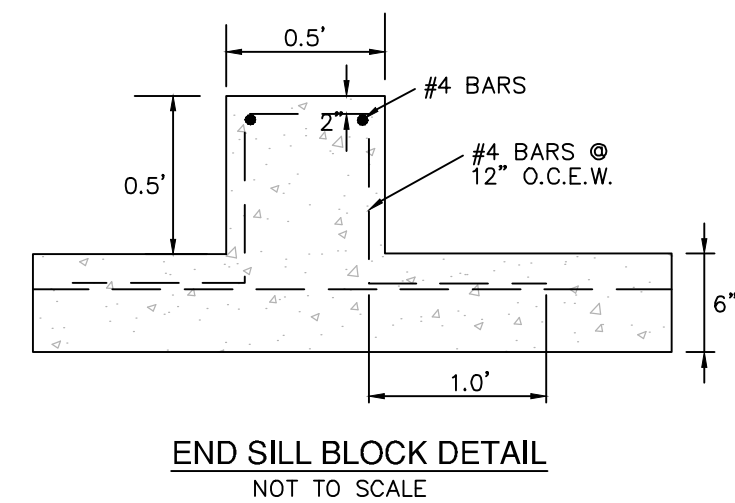
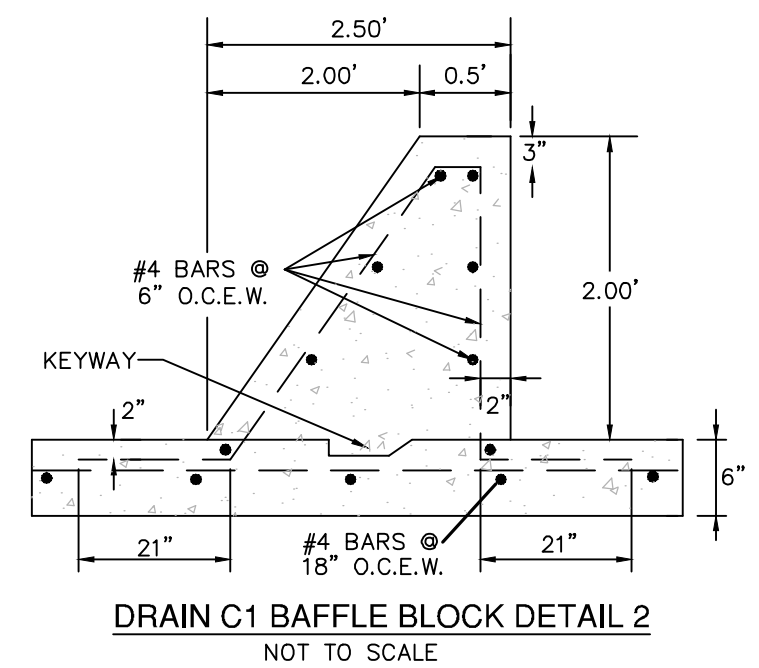
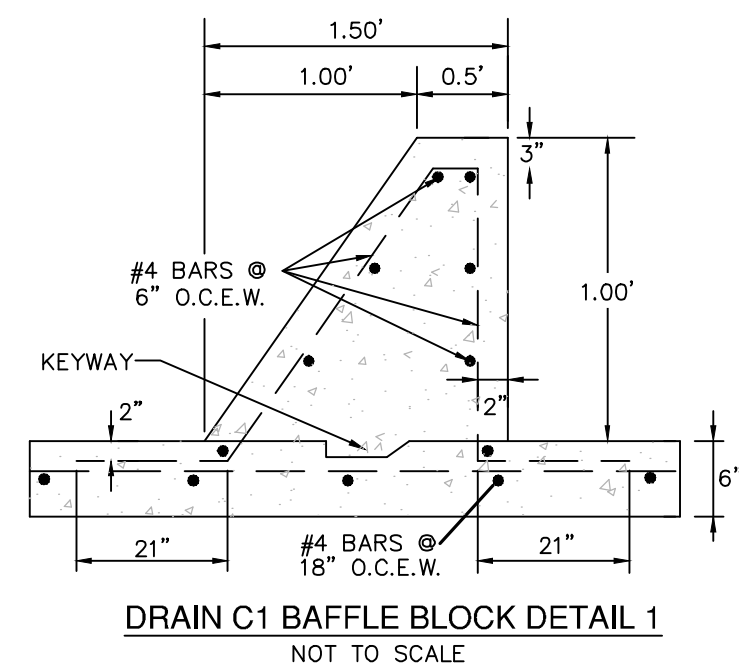
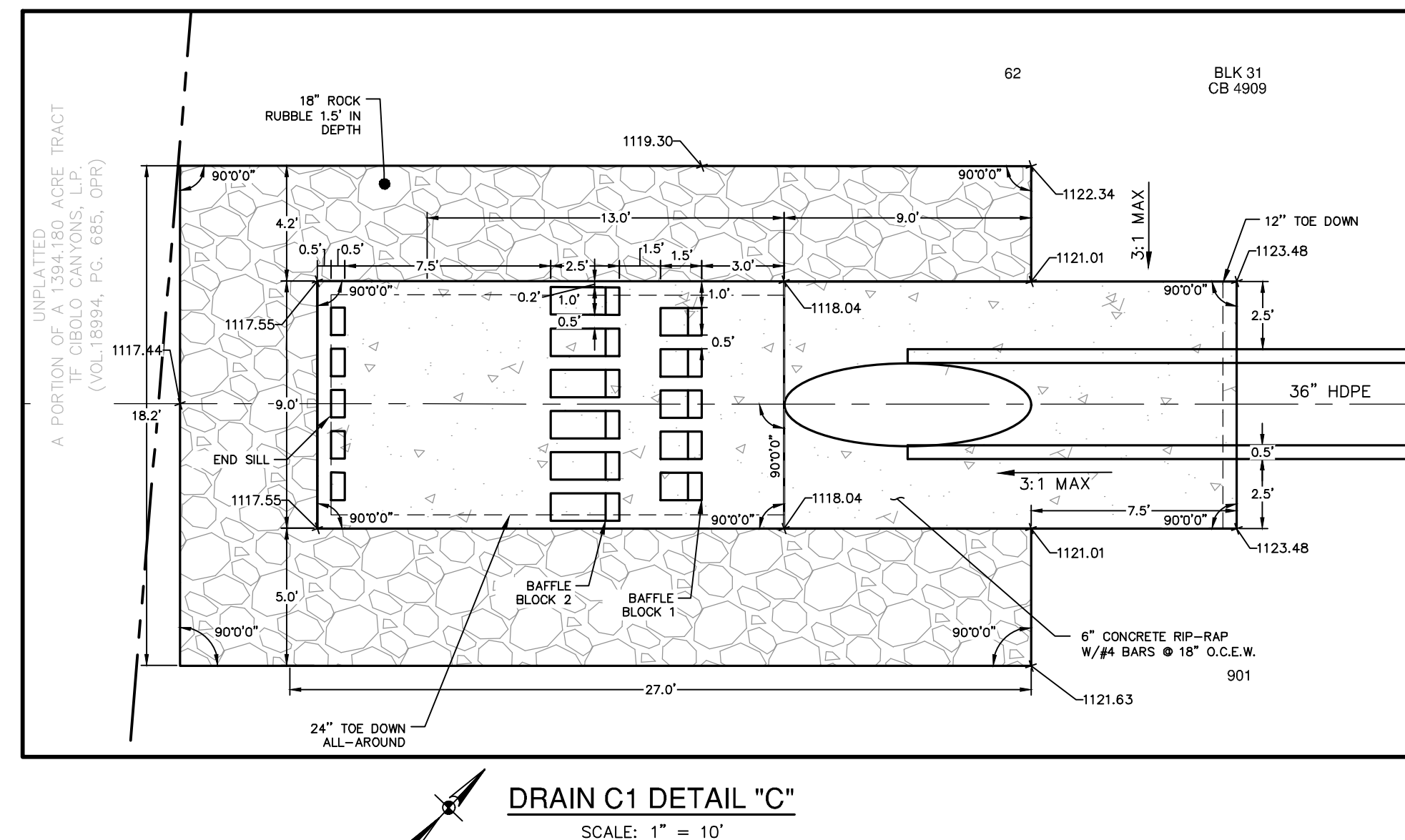
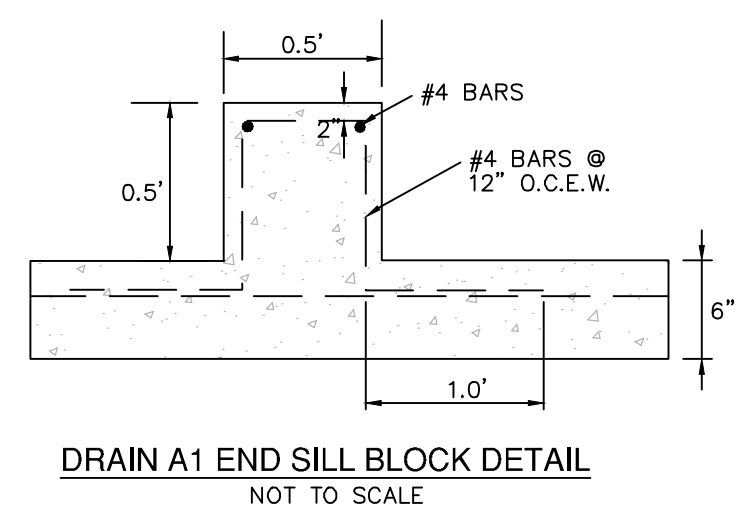
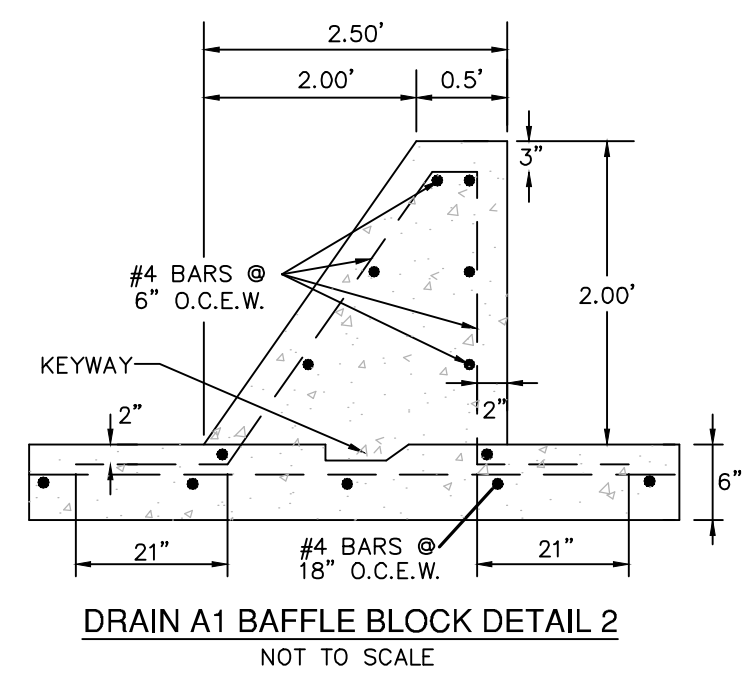
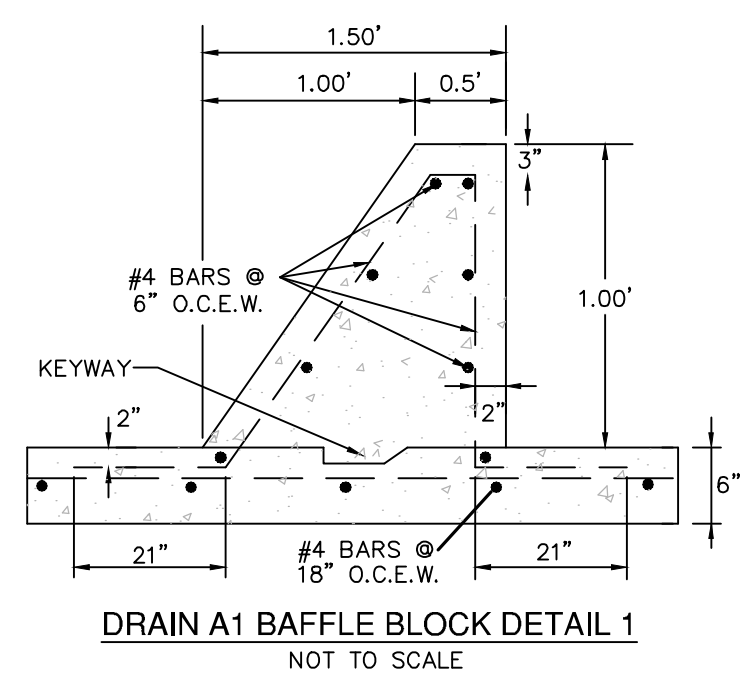
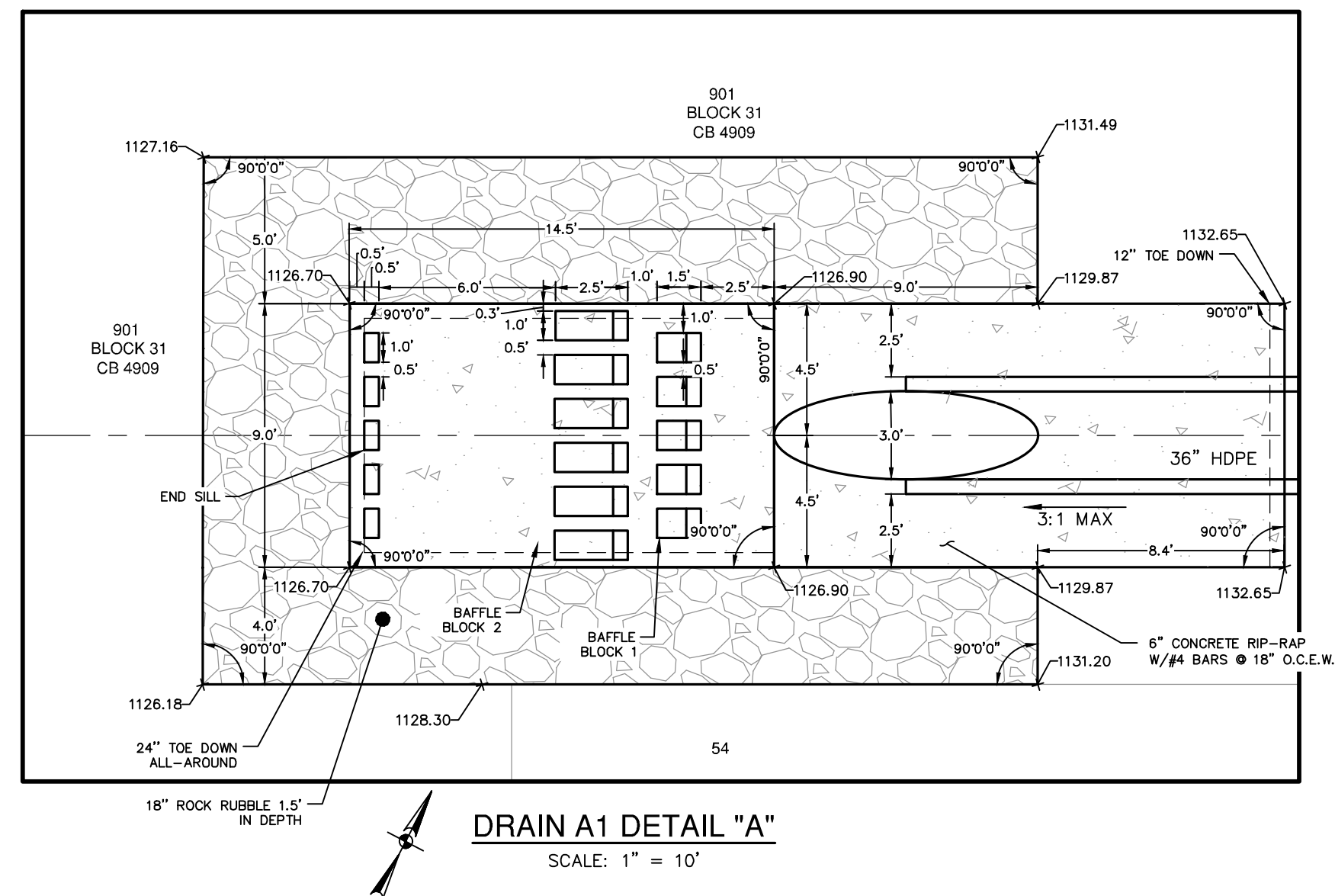
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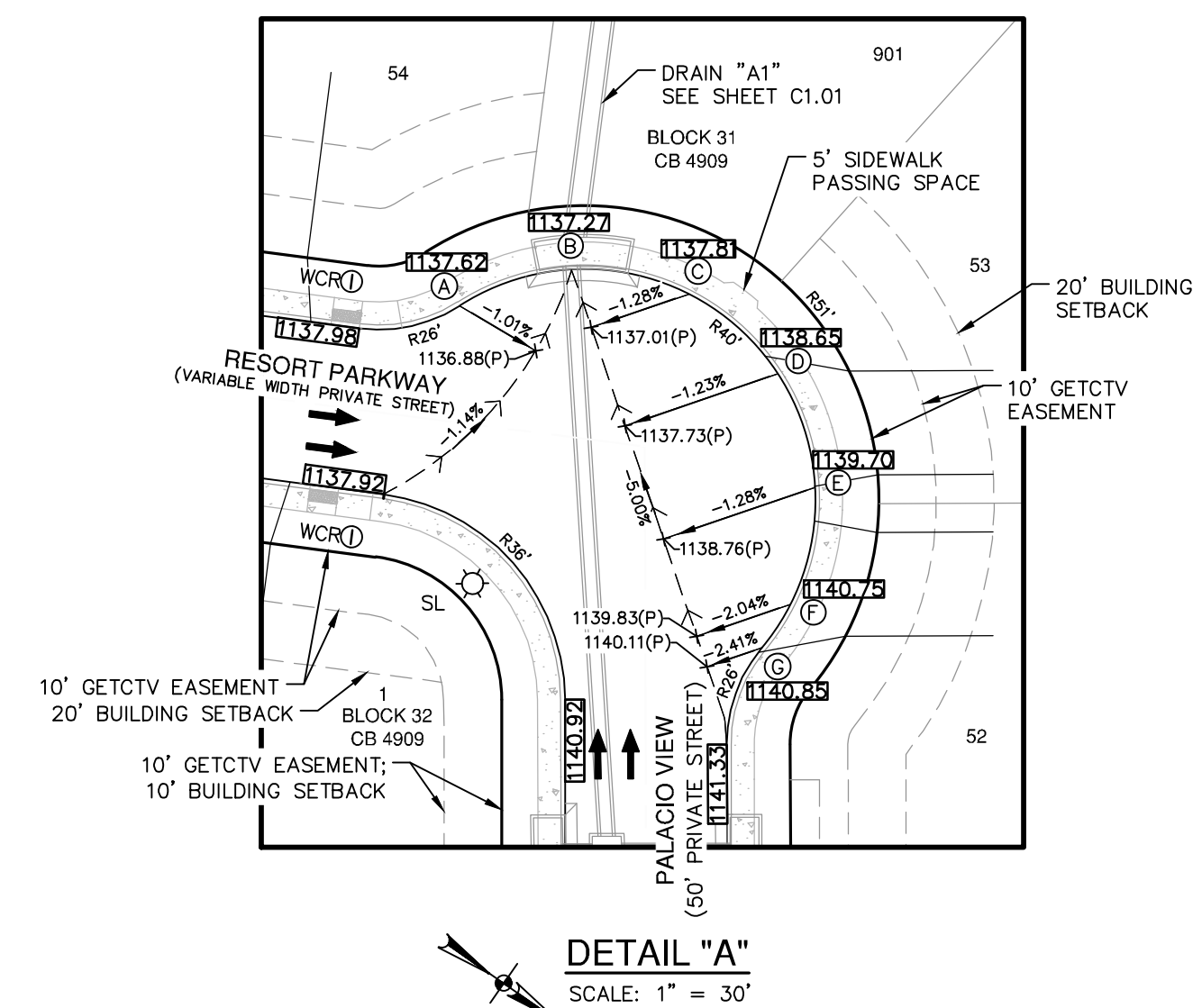
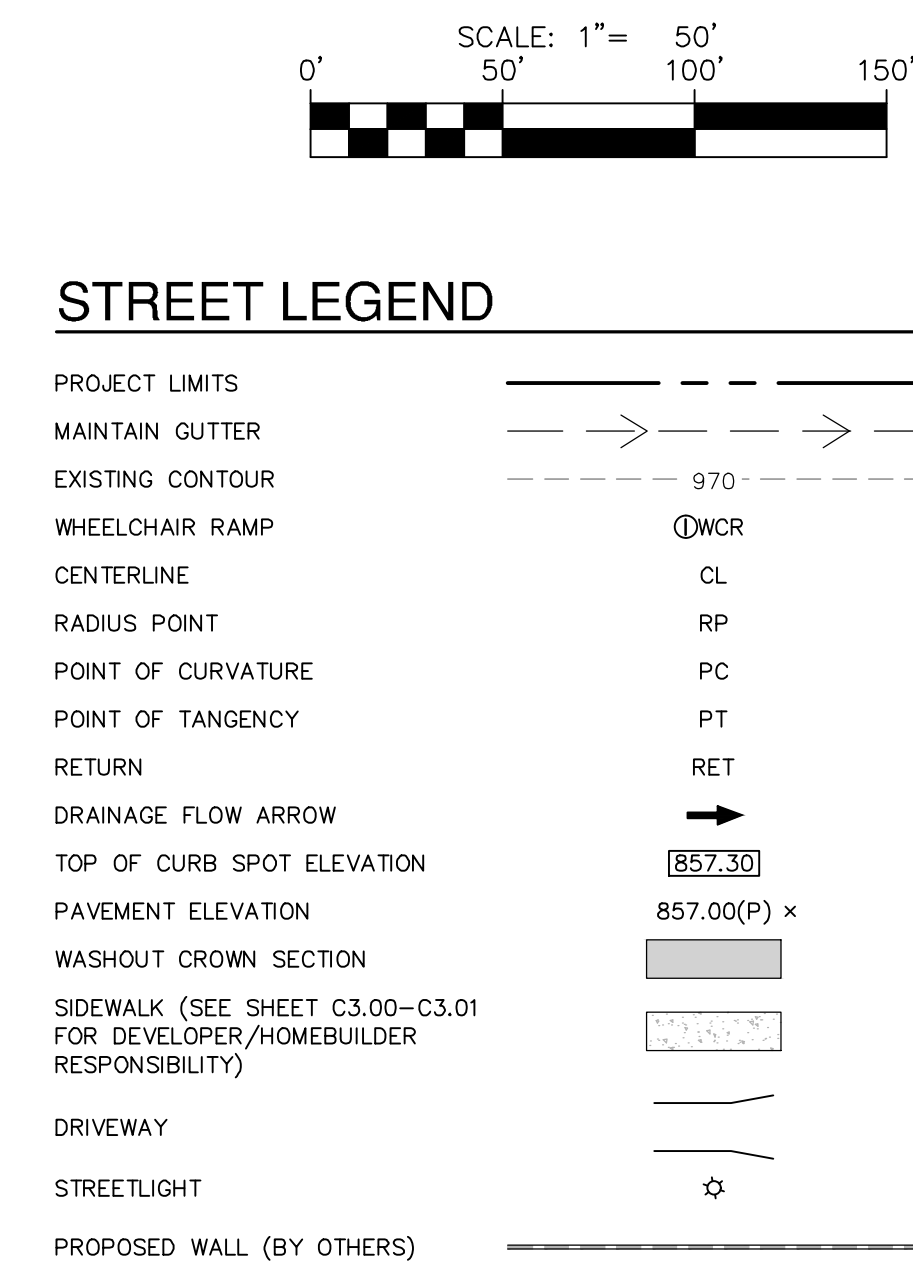
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CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS

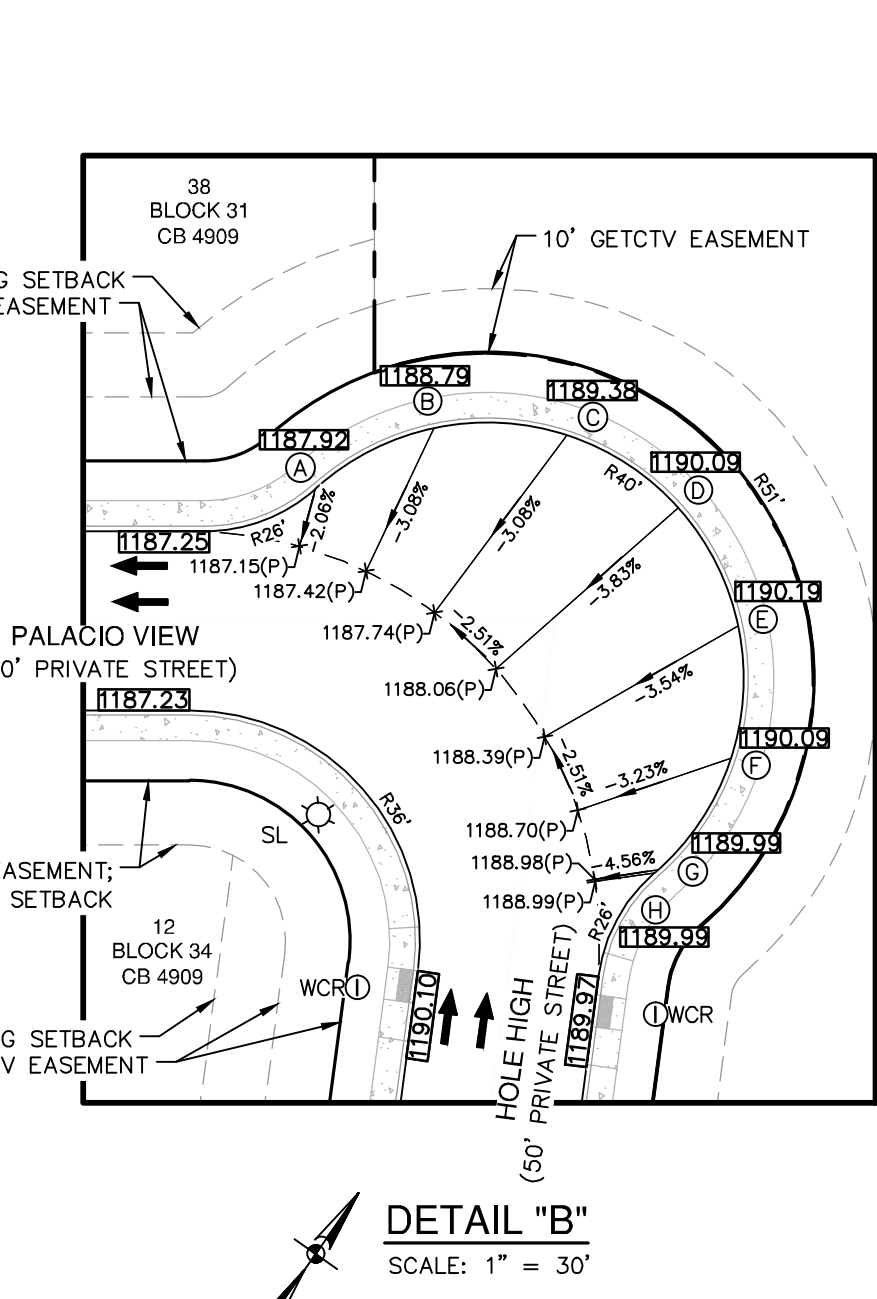
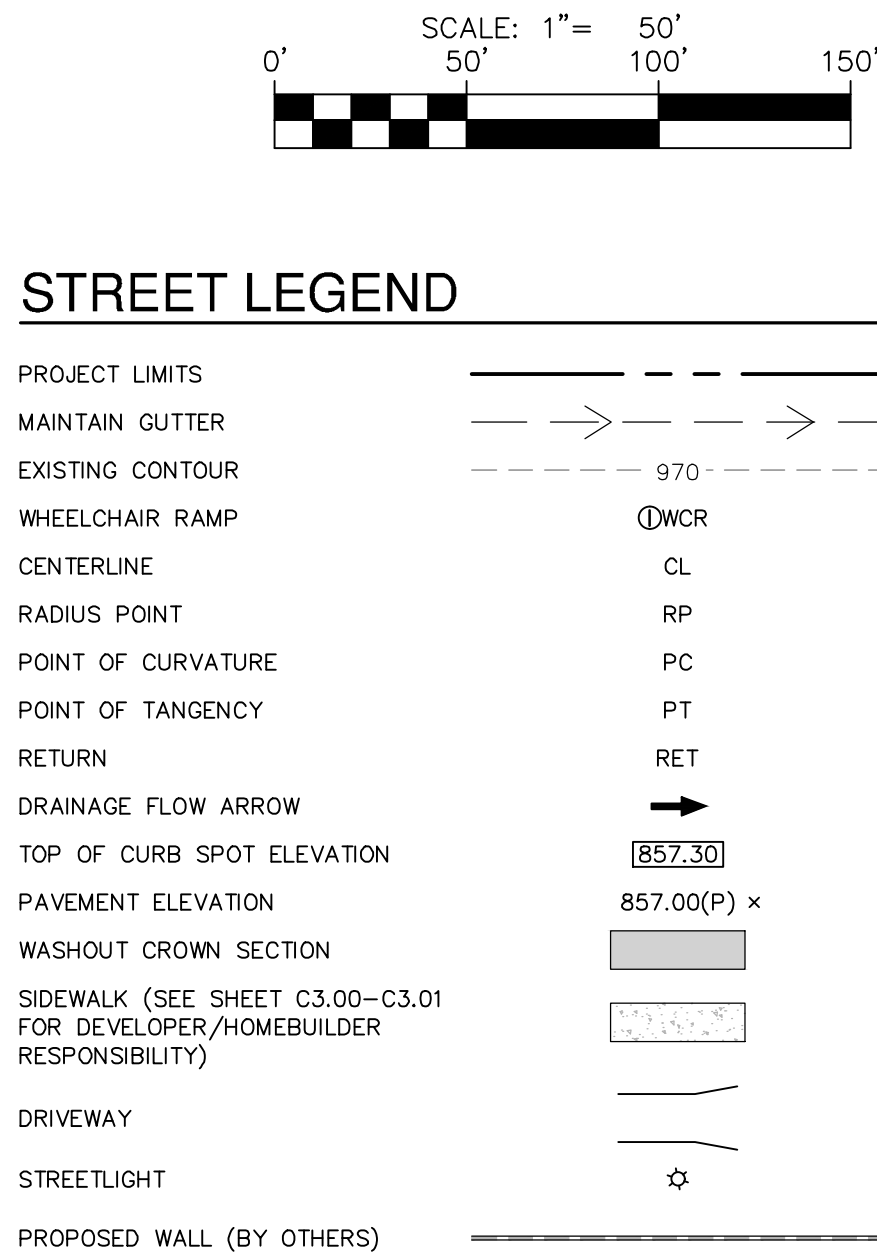
INTERCEPTOR DRAIN "E1" STA. 2+00.00 4+60.00

PLAT NO. 22-11800410
JOB NO. 12125-08
DATE JUNE 2023
DESIGNER CB
CHECKED BS DRAWN FP
SHEET C1.06

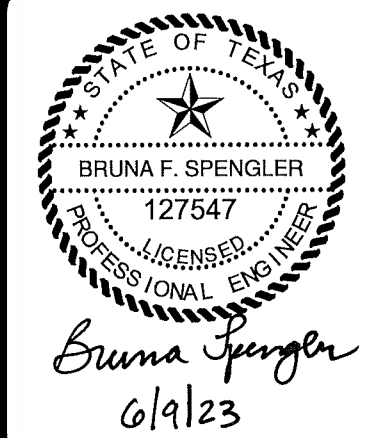




- ## **STREET NOTES:**
1. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
 2. SIDEWALKS SHALL BE CONSTRUCTED 3'-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
 3. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 2 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES AND VEGETATION SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT SHALL NOT BE HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
 4. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
 5. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE CITY ENGINEER WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(9).



- ## STREET NOTES:
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT THE IN-IF. EXIST PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- SIDEWALK SHALL BE CONSTRUCTED 3-FT FROM THE BACK OF CURB FOR ALL LOCATIONS. WHERE THE SIDEWALK IS SHOWN OFFSET, REFERENCE TO STREET DETAILED SHEET FOR SIDEWALK AND RAMP DETAILS.
- NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 3 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCE AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENT SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
- DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
- CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LENGTH DISTANCE OF 10 FEET SHALL BE APPROVED BY THE ENGINEER. APPROVE THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN UTILITY LAYOUT PER UDC SECTION 356-506 (0)(6).



PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TEPLS FIRM REGISTRATION # 10028600

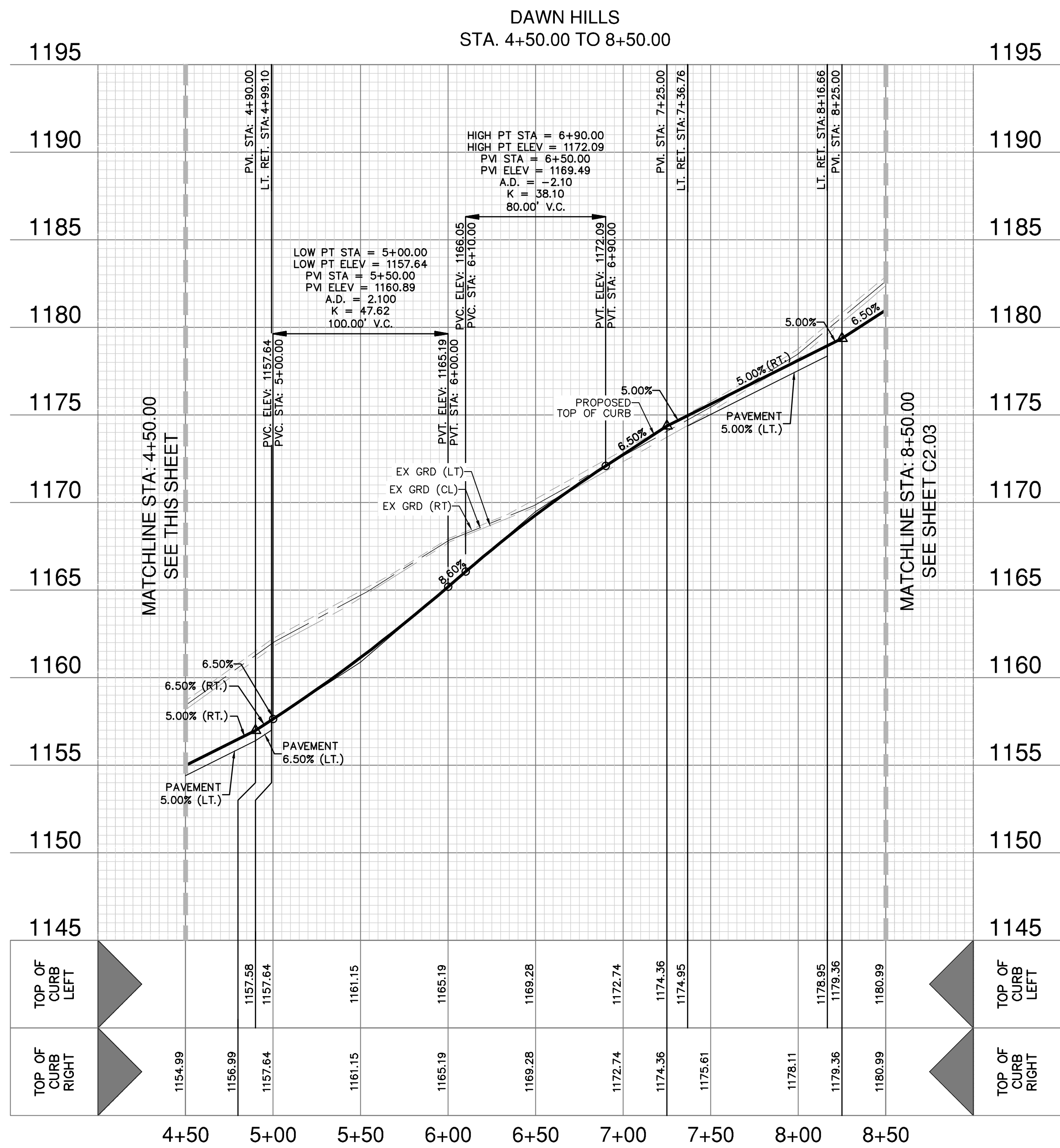
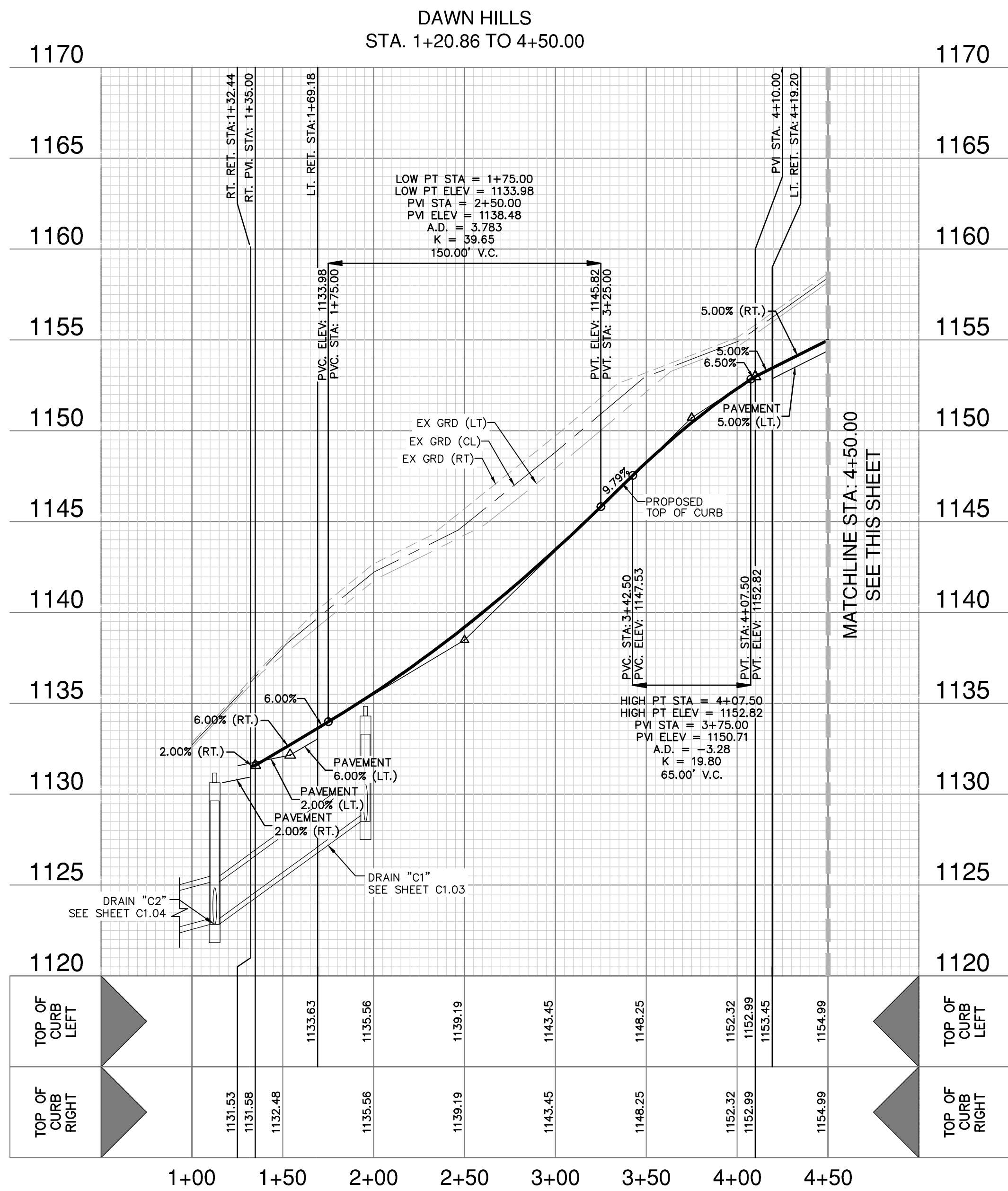
CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS

**PALACIO VIEW PLAN &
PROFILE STA. 1+43.80 TO END**

PLAT NO. 22-11800410
JOB NO. 12125-08
DATE JUNE 2023
DESIGNER CB
CHECKED BS DRAWN FP
SHEET C2.01

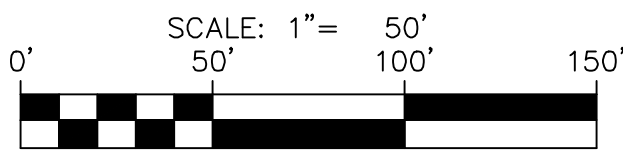
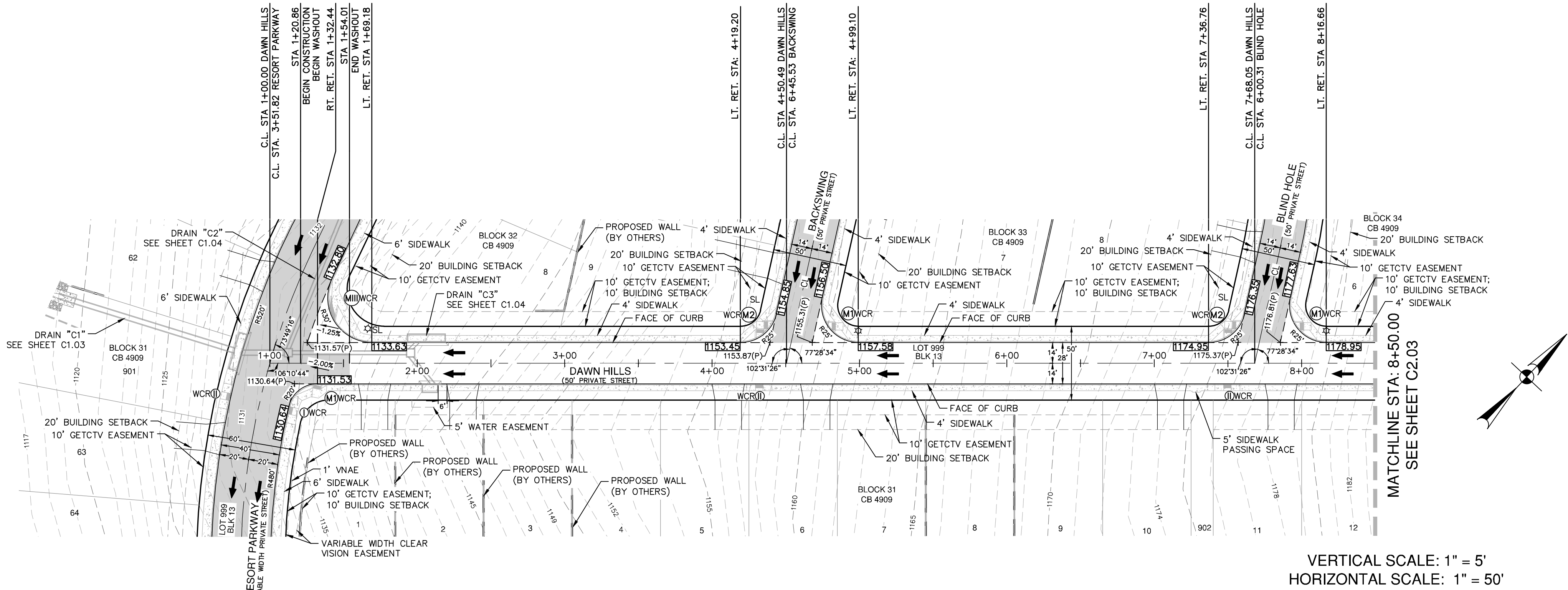
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STREET NOTES:

- CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- SIDEWALKS SHALL BE CONSTRUCTED 3'-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
- NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
- DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
- CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (0)(6).



STREET LEGEND

PROJECT LIMITS	---
MAINTAIN GUTTER	→
EXISTING CONTOUR	---
WHEELCHAIR RAMP	①WCR
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	→
TOP OF CURB SPOT ELEVATION	857.30
PAVEMENT ELEVATION	857.00(P) ×
WASHOUT CROWN SECTION	
SIDEWALK (SEE SHEET C3.00-C3.01 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY)	
DRIVEWAY	
STREETLIGHT	☆
PROPOSED WALL (BY OTHERS)	

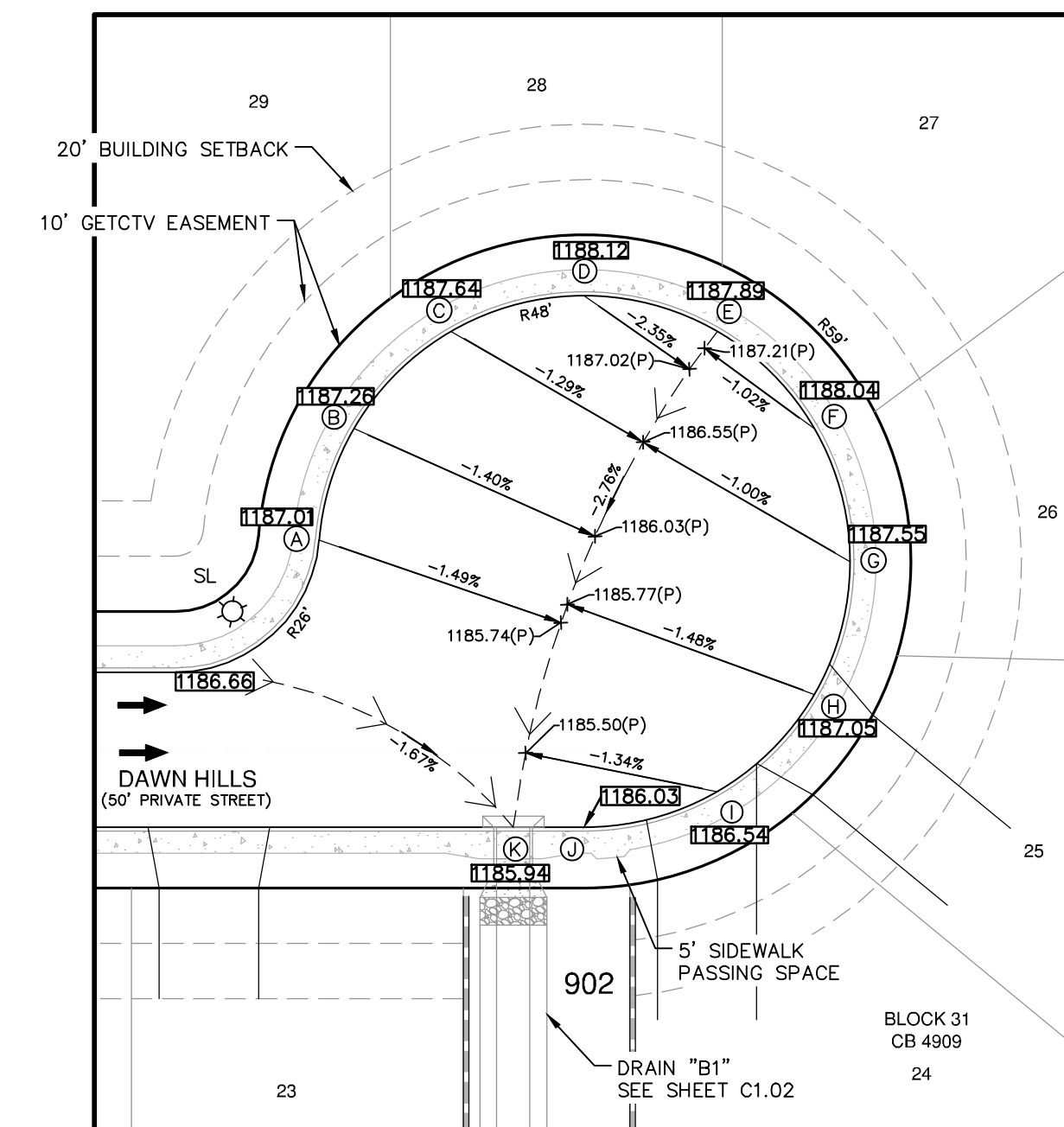
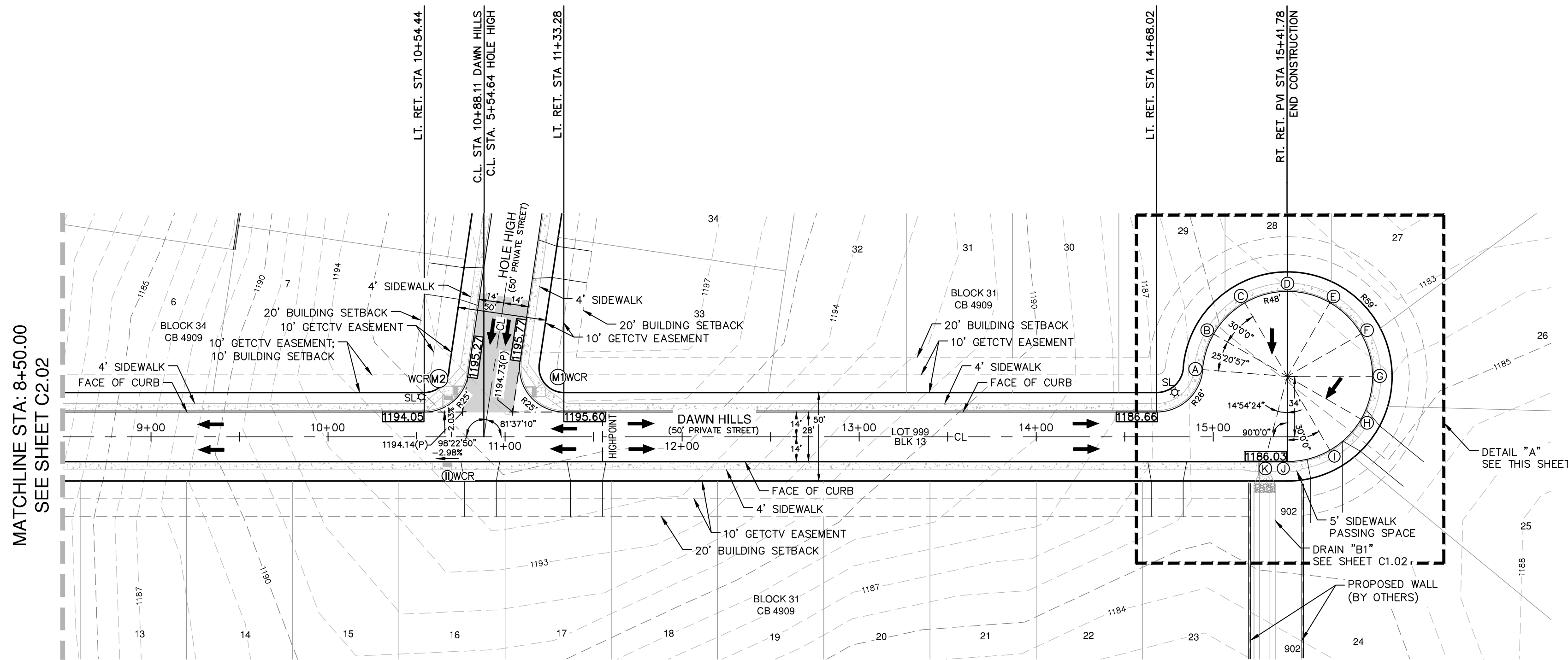
NO.	REVISION	DATE









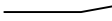


**PAPE-DAWSON
ENGINEERS**
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

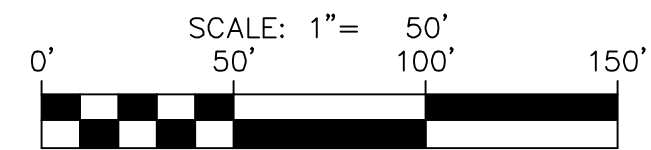
CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
DAWN HILLS PLAN & PROFILE
STA. 1+20.86 TO 8+50.00

PLAT NO. 22-11800410
JOB NO. 12125-08
DATE JUNE 2023
DESIGNER CB
CHECKED BS DRAWN FP
SHEET C2.02




STREET LEGEND

- | | |
|--|---|
| PROJECT LIMITS |  |
| MAINTAIN CUTTER |  |
| EXISTING CONTOUR | ----- 970 ----- |
| WHEELCHAIR RAMP |  |
| CENTERLINE | CL |
| RADIUS POINT | RP |
| POINT OF CURVATURE | PC |
| POINT OF TANGENCY | PT |
| RETURN | RET |
| DRAINAGE FLOW ARROW |  |
| TOP OF CURB SPOT ELEVATION | 857.30 |
| PAVEMENT ELEVATION | 857.00(P) × |
| WASHOUT CROWN SECTION |  |
| SIDE WALK (SEE SHEET C3.00-C3.01
FOR DEVELOPER/HOMEBUILDER
RESPONSIBILITY) |  |
| DRIVEWAY |  |
| STREETLIGHT |  |
| PROPOSED WALL (BY OTHERS) |  |



**PAPE-DAWSON
ENGINEERS**

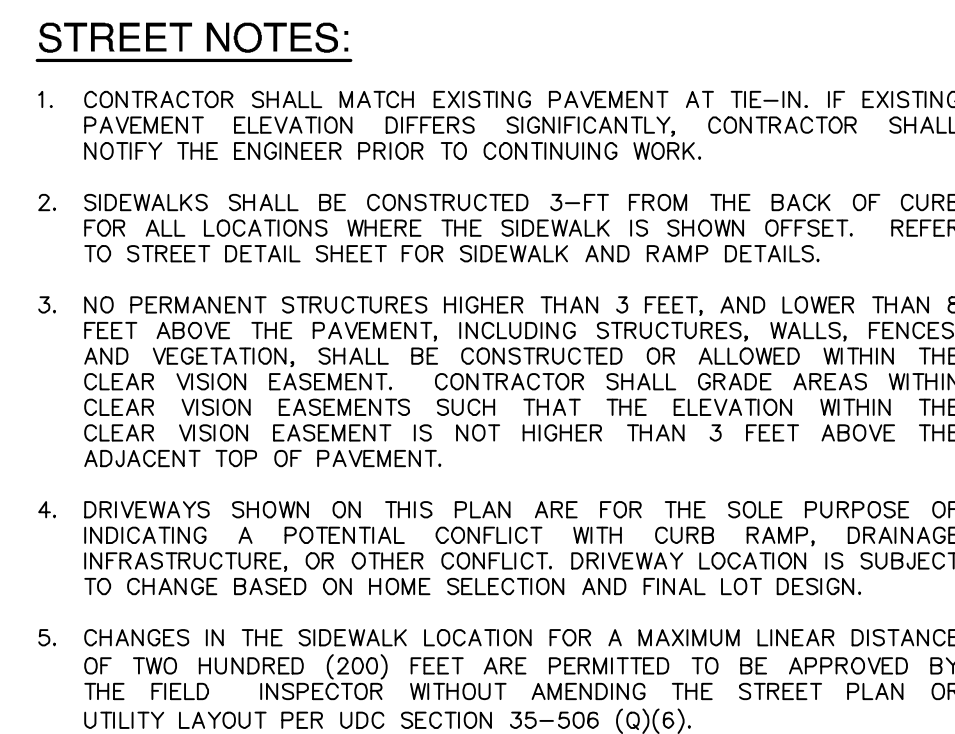
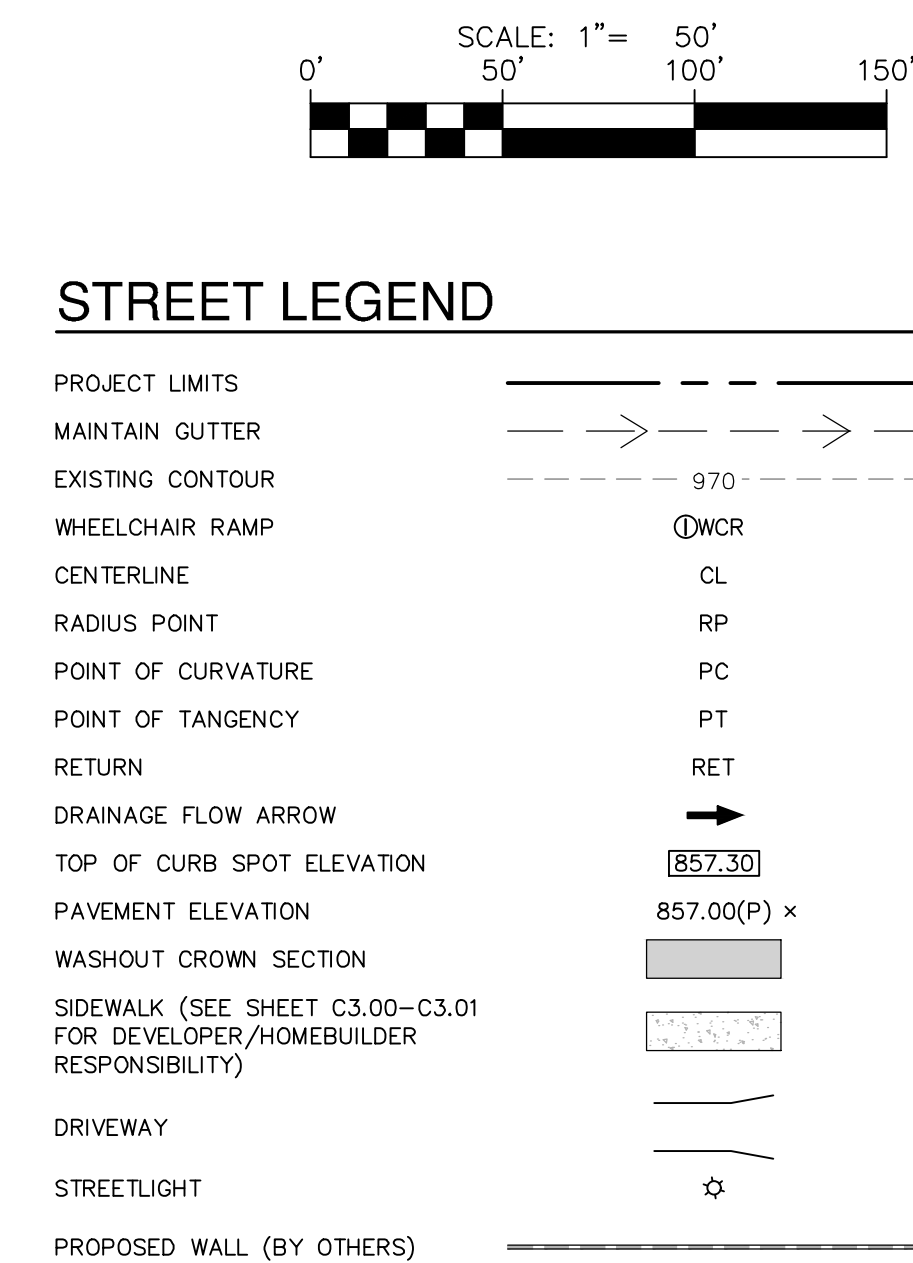
DAWN HILLS PLAN & PROFILE
STA. 8+50.00 TO END

[illegible]

PLAT NO. 22-11800410
JOB NO. 12125-08
DATE JUNE 2023
DESIGNER CB
CHECKED BS DRAWN FP
SHEET C2.03

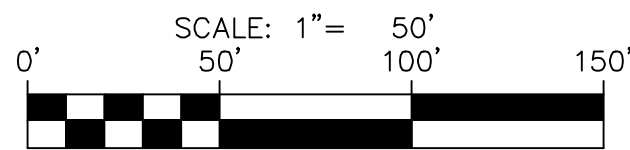
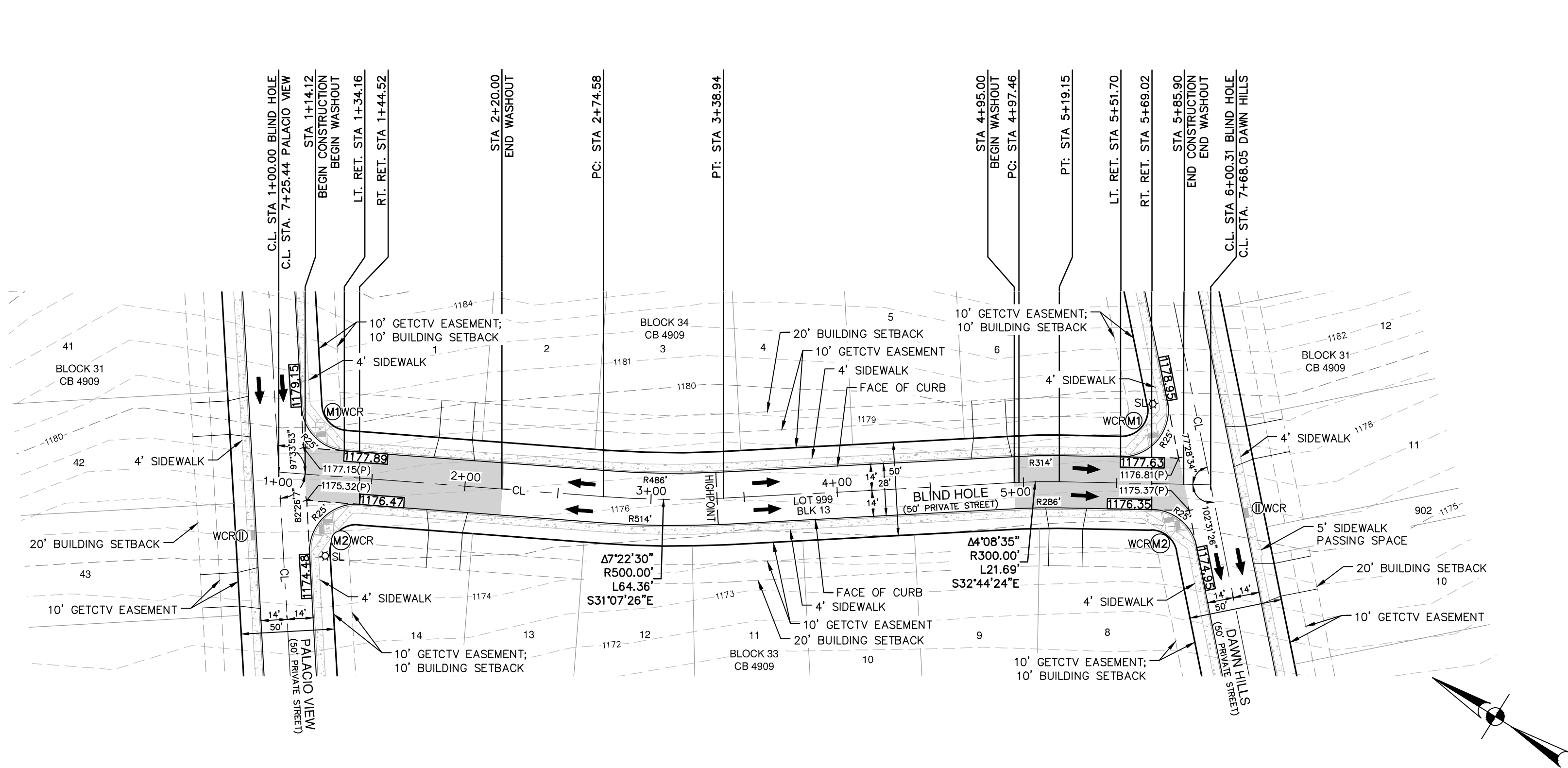
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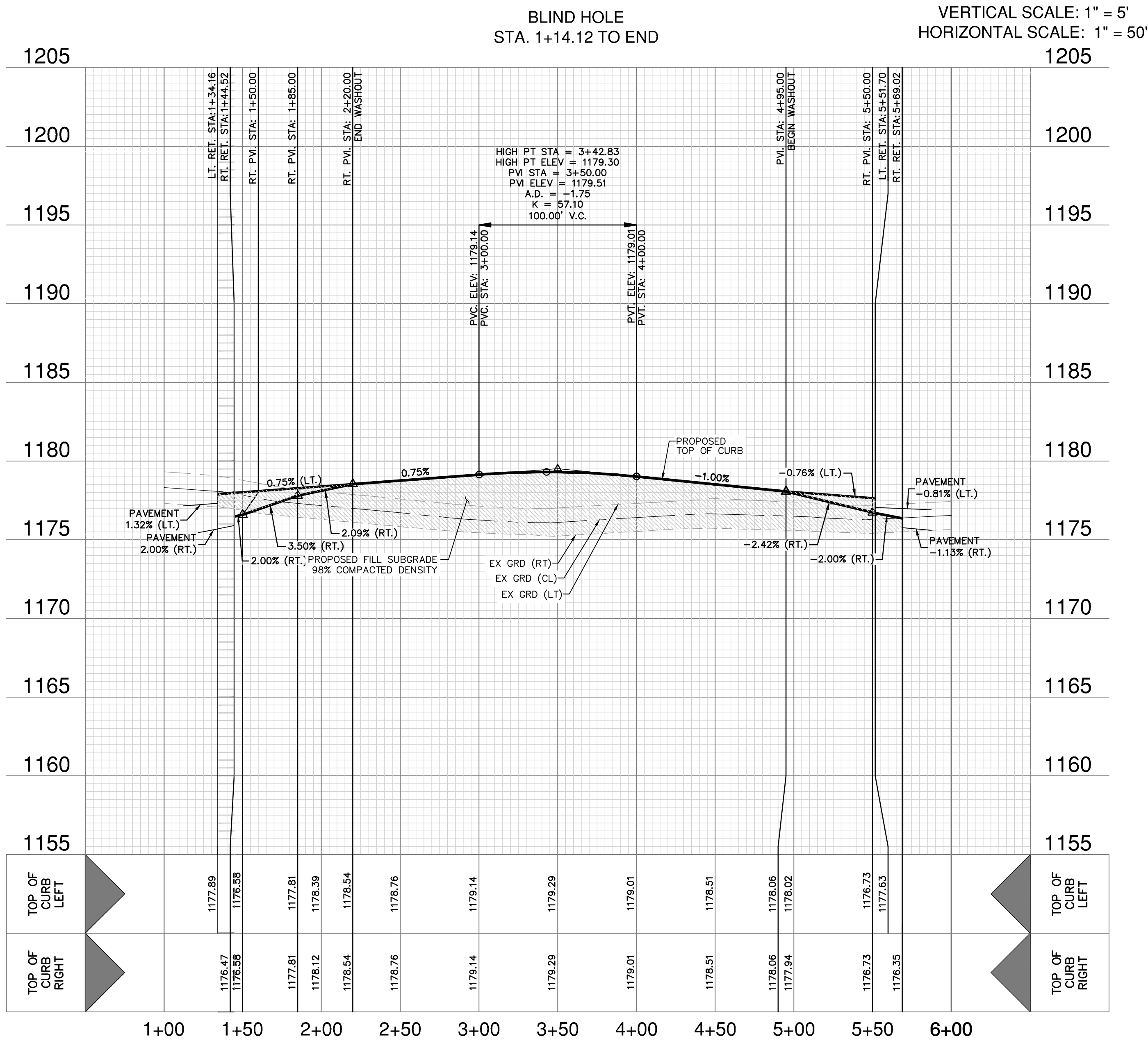
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STREET LEGEND

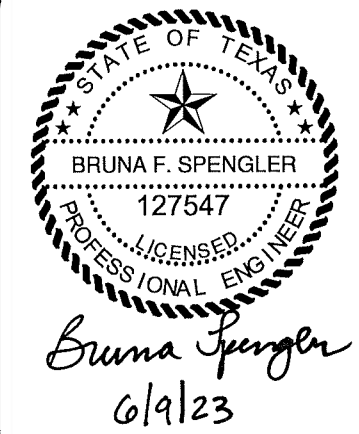
PROJECT LIMITS	---
MAINTAIN GUTTER	→
EXISTING CONTOUR	--- 970 ---
WHEELCHAIR RAMP	⊙WCR
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	→
TOP OF CURB SPOT ELEVATION	857.30
PAVEMENT ELEVATION	857.00(P) ×
WASHOUT CROWN SECTION	857.30
SIDEWALK (SEE SHEET C3.00-C3.01 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY)	857.30
DRIVEWAY	---
STREETLIGHT	☆
PROPOSED WALL (BY OTHERS)	---



STREET NOTES:

- CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
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NO.	REVISION	DATE

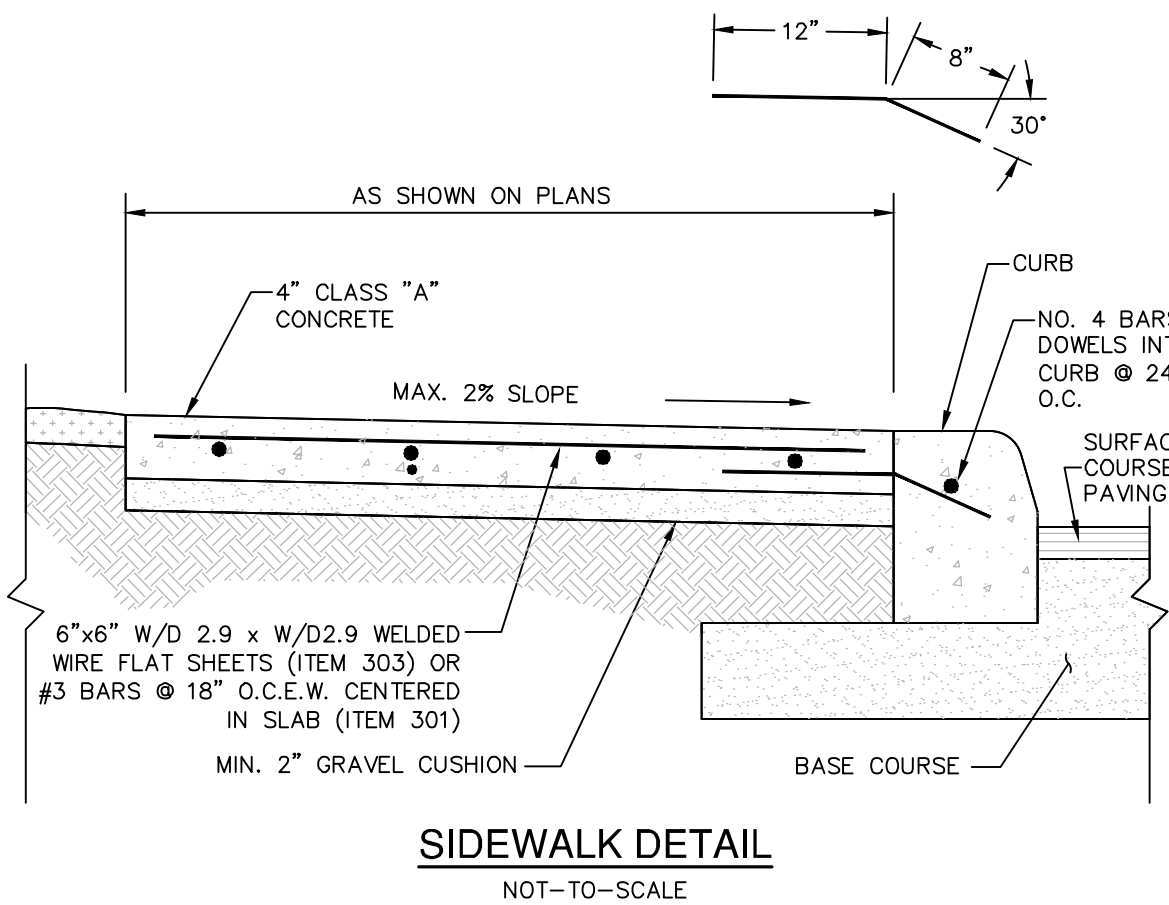
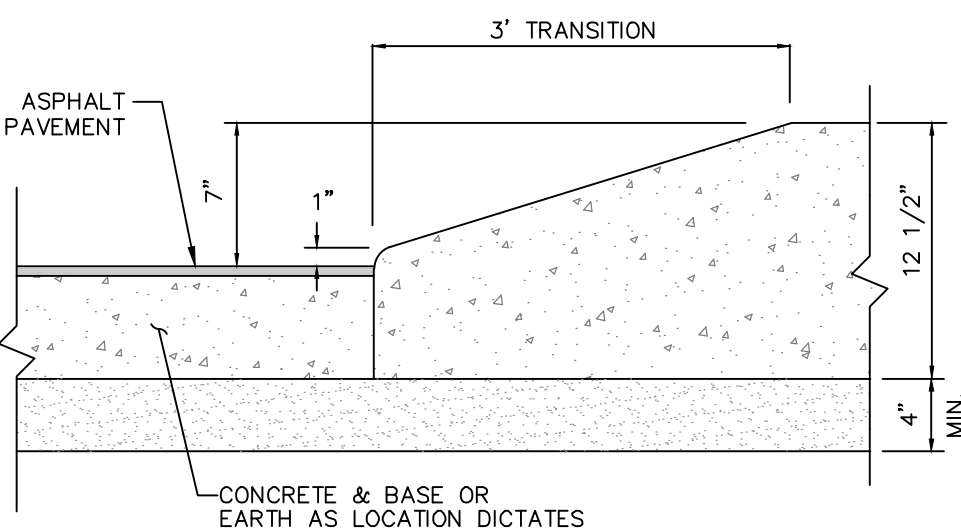
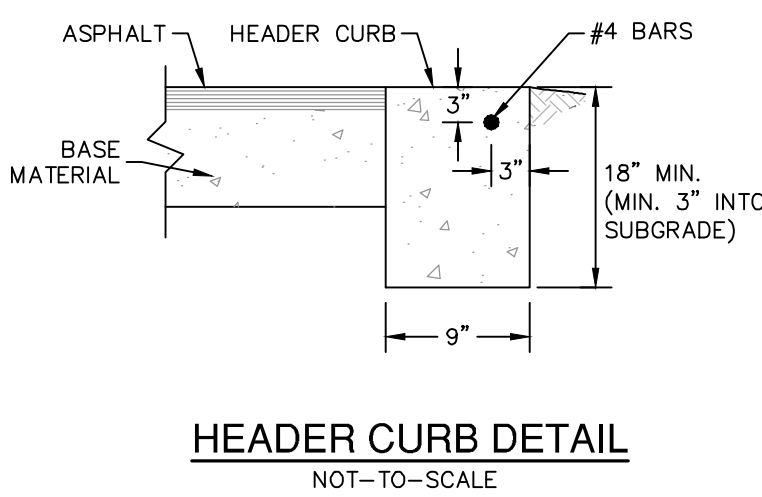
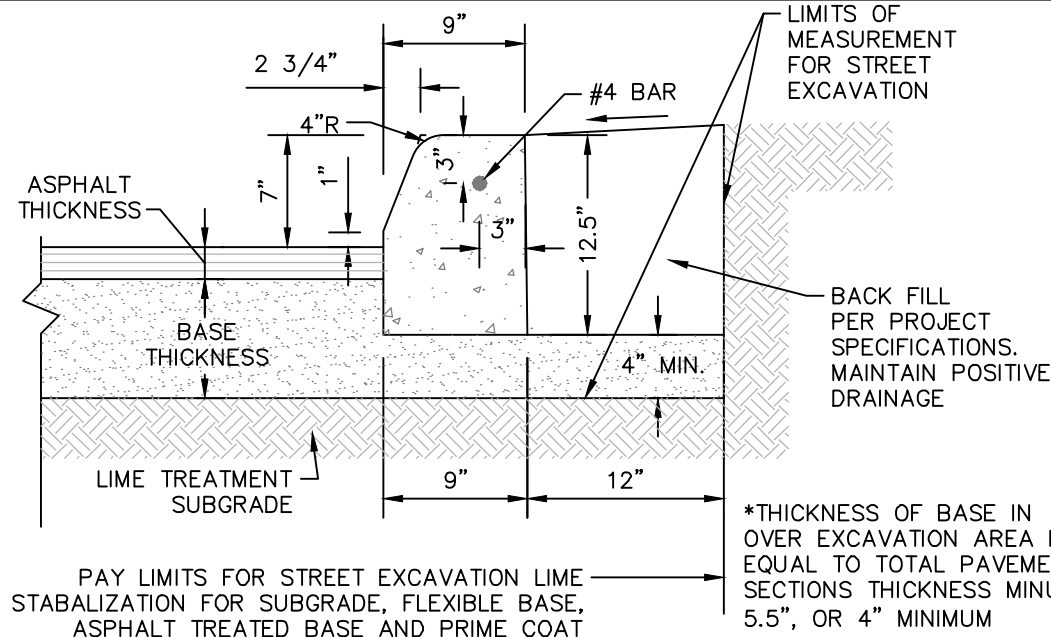
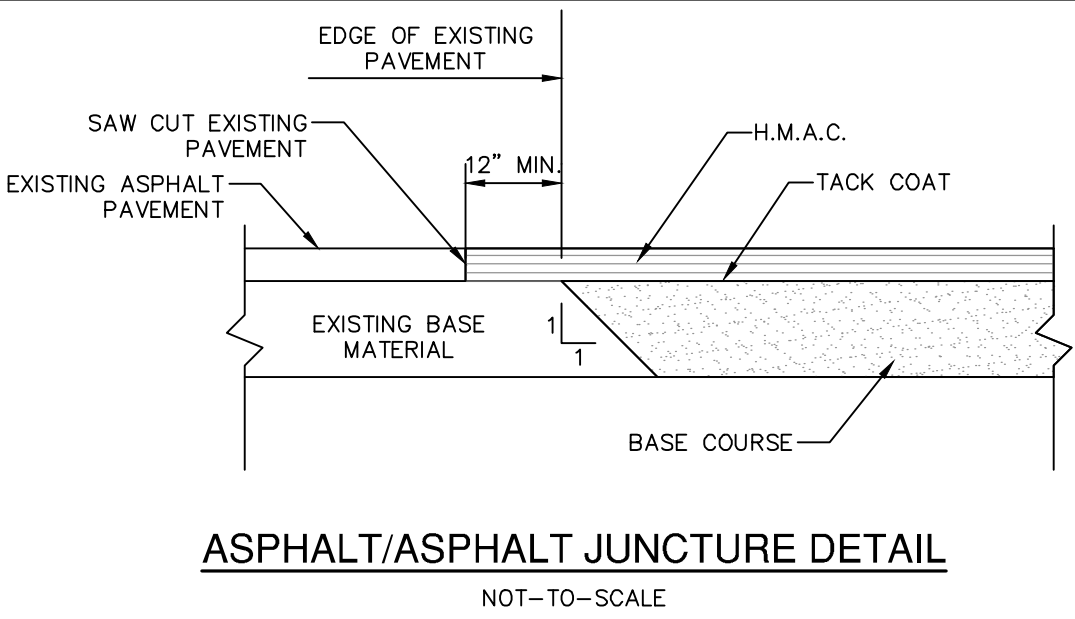


PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #10028600

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
BLIND HOLE PLAN & PROFILE
STA. 1+14.12 TO END

PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	JUNE 2023
DESIGNER	CB
CHECKED	BS
DRAWN	FP
SHEET	C2.05

- ANTICIPATED SUBGRADE IS BROWN GRAVELLY CLAY OR TAN TO LIGHT TAN CALcareous CLAY, MARL TO LIMESTONE.
- STRATUM 1 CLAYS SHOULD BE REMOVED TO EXPOSE MARL TO LIMESTONE.
- THE SUBGRADE PLASTICITY INDEX VALUE SHOULD BE 20 OR LESS. SUBGRADE STABILIZATION IS NOT NEEDED.
- IF THICKER CLAYS ARE ENCOUNTERED, THEN ONE OF THE TWO FOLLOWING OPTIONS MAY BE FOLLOWED:
 - THE EXISTING CLAYS SHOULD BE REMOVED TO MARL / LIMESTONE STRATUM AND REPLACED WITH APPROVED SELECT FILL MATERIAL.
 - THE PAVEMENT SUBGRADE SHOULD BE LIME STABILIZED. LIME APPLICATION RATE OF 5 PERCENT MAY BE USED (25 LBS PER SQ YARD FOR 6-INCH DEPTH OR 33 LBS PER SQ YARD FOR 8-INCH DEPTH OF STABILIZATION). THE SUBGRADE SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO STABILIZING THE SUBGRADE WITH LIME.



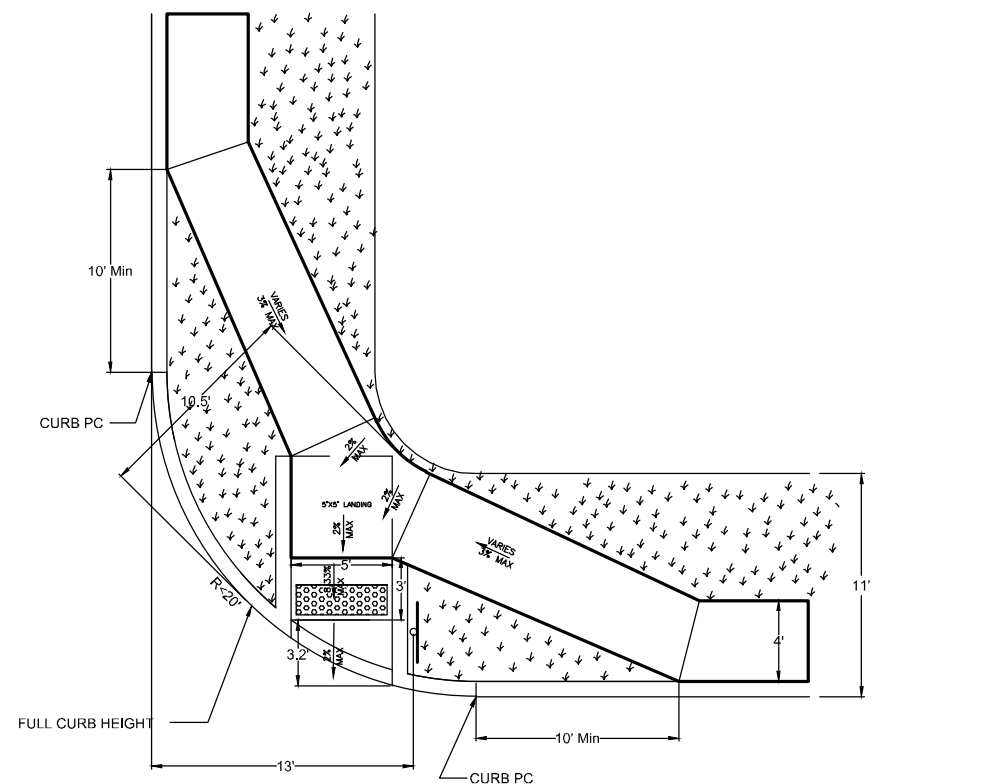
1. CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT PREPARED BY INTEGRATED TESTING AND ENGINEERING COMPANY OF SAN ANTONIO (INTEC) DATED FEBRUARY 21, 2018.
2. CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY THE SUB GRADE CONDITION PRIOR TO PLACING ANY BASE MATERIAL. GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUB GRADE CONDITION AND IF LIFE STABILIZATION IS REQUIRED.
3. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE.
4. THE FLEXIBLE BASE COURSE SHOULD BE CRUSHED LIMESTONE CONFORMING TO TXDOT STANDARD SPECIFICATIONS, ITEM 247, TYPE A, GRADES 1 OR 2.
5. THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM WATER CONTENT TO 3 PERCENTAGE POINTS ABOVE THE OPTIMUM WATER CONTENT UNTIL PERMANENTLY COVERED.
6. IN THE EVENT THAT THE CLAY FILL USED IS DIFFERENT THAN THE EXISTING SUBGRADE, THE RECOMMENDATIONS FROM THE MOISTURE CONDITIONING REPORT COULD BE INVALIDATED AND THE DESIGN ENGINEER MUST BE CONSULTED TO DETERMINE IF ADDITIONAL CORNER TESTING AND THICKER PAVEMENT SECTIONS ARE REQUIRED.
7. WHERE PAVEMENT SUBGRADE IS LOCATED WITHIN TWO- FEET OF THE EXISTING GROUND SURFACE (STRATUM 1 CLAYS), MOISTURE CONDITIONED SUBGRADE WILL BE REQUIRED. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE TO DETERMINE WHERE THE MOSTLY CONDITIONED SUBGRADE IS NEEDED. REFERENCE GEOTECHNICAL ENGINEERING REPORT FOR MORE INFORMATION.
8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL MATERIAL TESTING WITH THE PROJECT GEOTECHNICAL ENGINEER. TESTING SHALL BE PAID FOR BY THE OWNER.
9. FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 5 AND A PI OF 20 OR LESS. THE GRAVEL SIZE SHOULD NOT EXCEED 4 INCHES IN DIAMETER. LIME OR CEMENT APPLICATION RATES SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES. CONTRACTOR TO VERIFY EXACT SPECIFICATIONS WITH PROJECT GEOTECHNICAL ENGINEERING REPORT.
10. A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN THE BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.

1. IF THE STREET SUBGRADE PLASTICITY INDEX VALUE IS GREATER THAN 20, SUBGRADE STABILIZATION IS NEEDED AS PER CITY OF SAN ANTONIO REQUIREMENTS.
2. IF THE SUBGRADE PLASTICITY INDEX VALUE IS 20 OR LESS, SUBGRADE STABILIZATION IS NOT NEEDED. THE SUBGRADE SHOULD BE MOISTURE CONDITIONED (COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT A MINIMUM MOISTURE CONTENT OF OPTIMUM PLUS 2 PERCENT (TEXT114E)).
3. THE SUBGRADE SHOULD BE STABILIZED USING 6 PERCENT LIME TO A DEPTH OF 8 INCHES AS NOTED ABOVE.
4. THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO STABILIZATION. IF THE SOIL SULFATE CONTENT IS HIGH, AN ALTERNATE PROCEDURE / RECOMMENDATION WILL BE NEEDED.
5. LIME APPLICATION RATE OF 33 LBS PER SQ YARD FOR 8 INCH DEPTH OF LIME STABILIZATION IS RECOMMENDED.
6. APPROVED FILL MATERIAL SHOULD BE USED TO RAISE THE GRADE. THE FILL SHOULD BE FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 5. LIME APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.
7. THE SUBGRADE SHOULD BE PROOF ROLLED TO IDENTIFY SOFT AREAS BEFORE STABILIZATION.

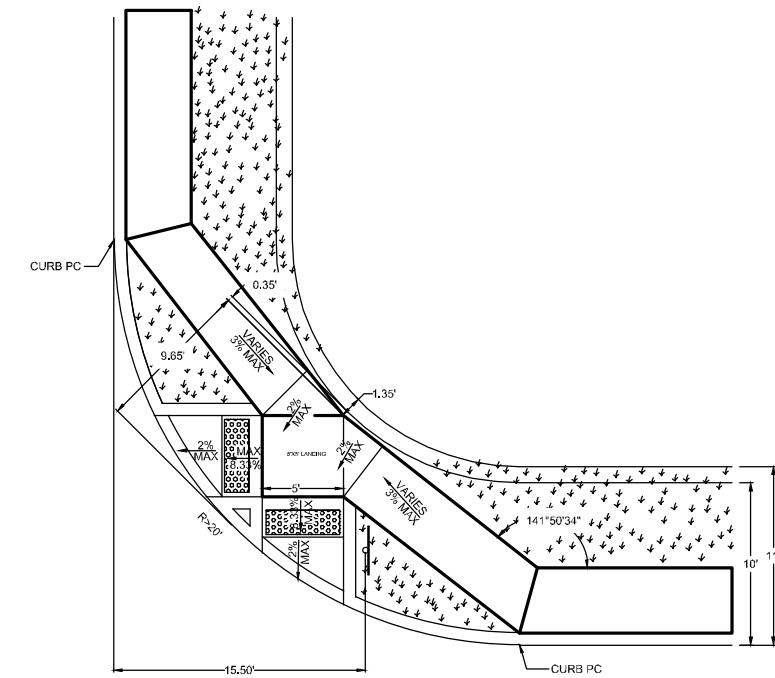
FOR LIME STABILIZATION CONSTRUCTION VERIFICATION THE FOLLOWING SHALL BE CONDUCTED ON THE FIELD:

1. AFTER INITIAL MIXING THE SOIL-LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2-3) DAYS. MAINTAIN MOISTURE DURING MELLOWING.
2. AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE 3 INCH SIEVE FROM THE SAMPLE):

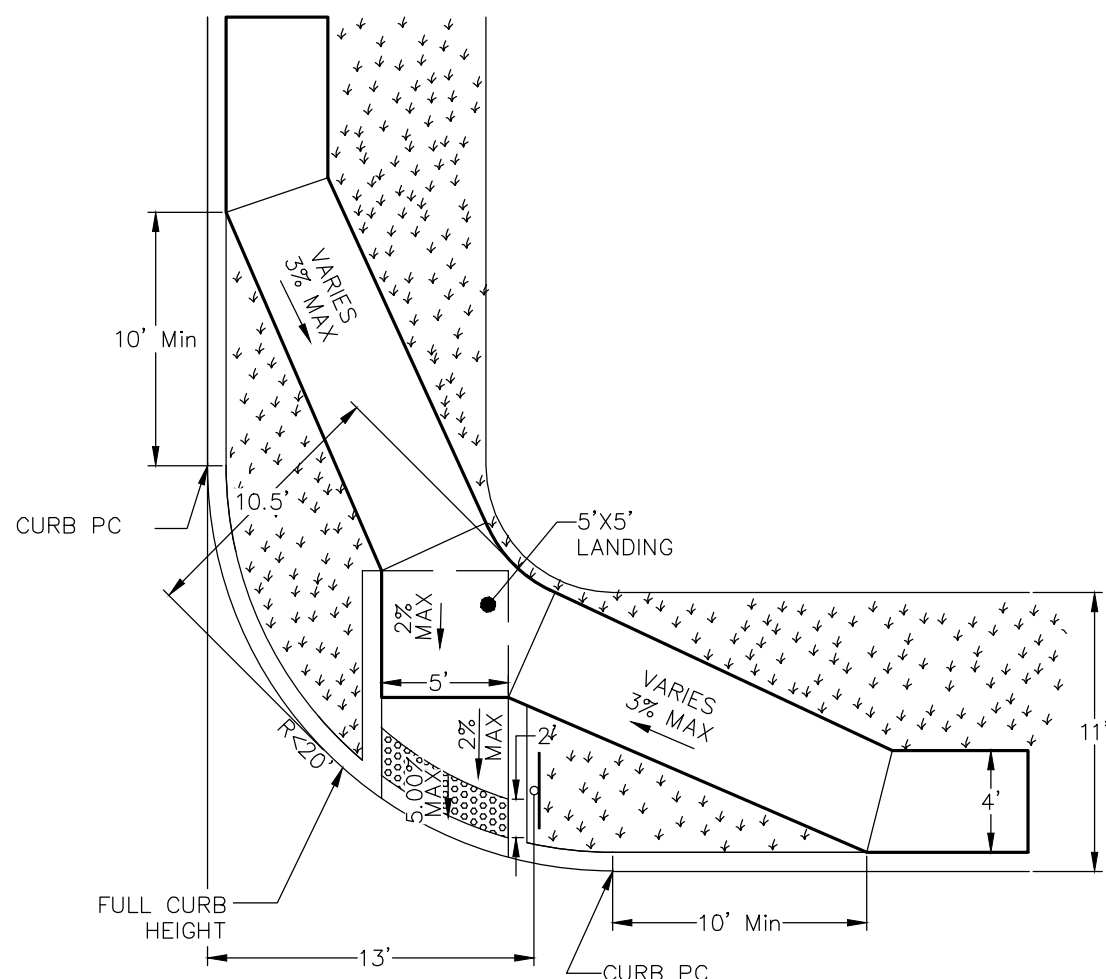
MINIMUM PASSING 1" SIEVE	100
MINIMUM PASSING 3/4" SIEVE	85
MINIMUM PASSING NO. 4 SIEVE	65
3. SAMPLE SOIL-LIME MIXTURE FOR DETERMINATION OF MAXIMUM DRY DENSITY (MDD). IN THE LABORATORY, MDD REGIMENS TO 95% OF MDD AT OPTIMUM MOISTURE CONTENT AND VERIFY LIES TO BE AT LEAST 1600 PSI IN ACCORDANCE WITH PROCEDURE OUTLINED IN THE BEAR COUNTY FLEXIBLE PAVEMENT DESIGN CRITERIA GUIDE FOR MIXTURE DESIGN.
4. COMPACT AND CHECK FIELD DENSITY (MINIMUM OF 95% OF MDD REQUIRED).
5. CURE FOR AN ADDITIONAL 2 TO 5 DAYS (TOTAL MELLOWING AND CURING TIME SHOULD TOTAL AT LEAST 5 DAYS).
6. VERIFY DEPTH OF LIME STABILIZED LAYER TO DEPTH AS NOTED ON PLAN TO WITHIN +/- 1.0 INCH.



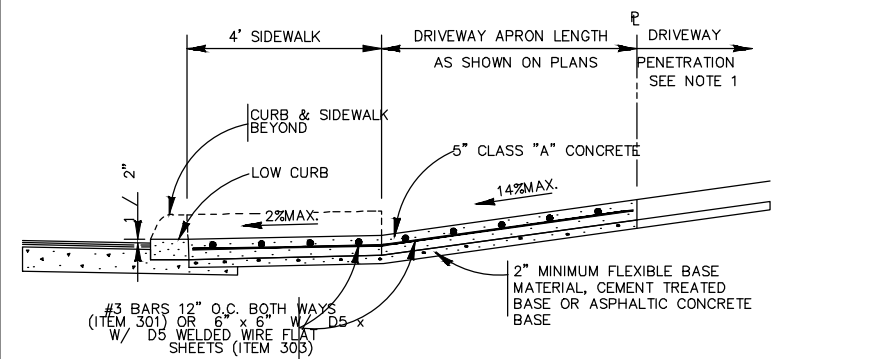
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NOT-TO-SCALE



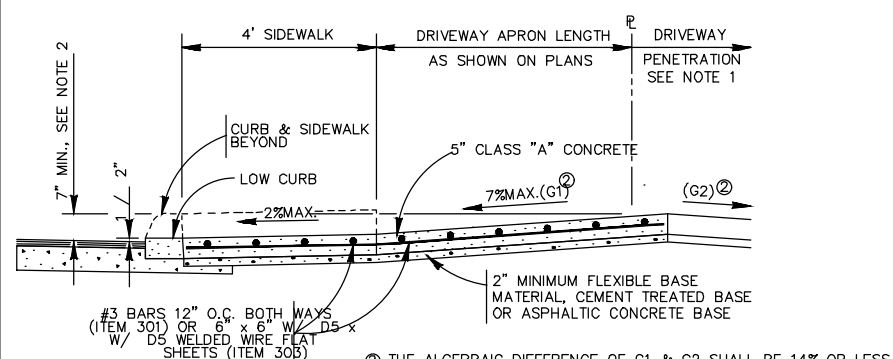
DIRECTIONAL RAMP TYPE M2 DETAIL
NOT-TO-SCALE



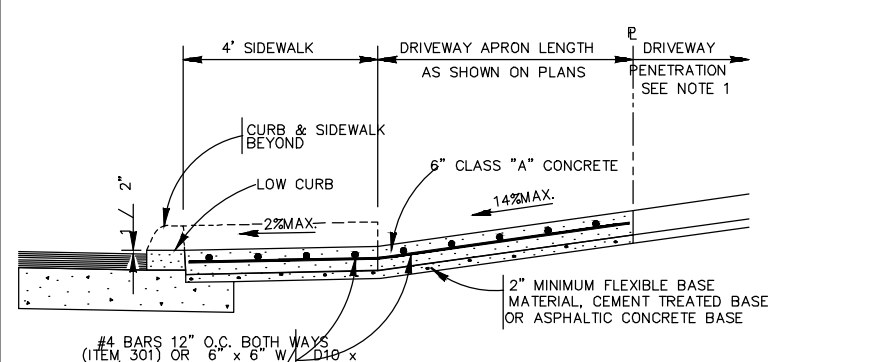
DIRECTIONAL RAMP TYPE MIII DETAIL
NOT-TO-SCALE



TYPICAL RESIDENTIAL DRIVEWAY SECTION
ITEM 503.1



TYPICAL RESIDENTIAL DRIVEWAY SECTION
ITEM 503.1

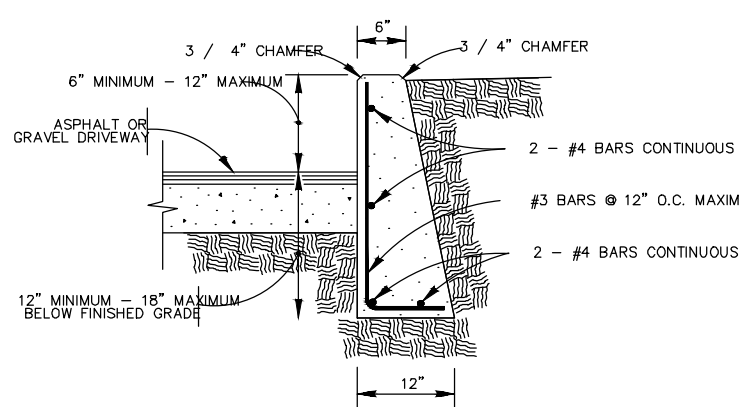


TYPICAL COMMERCIAL DRIVEWAY SECTION
ITEM 503.2

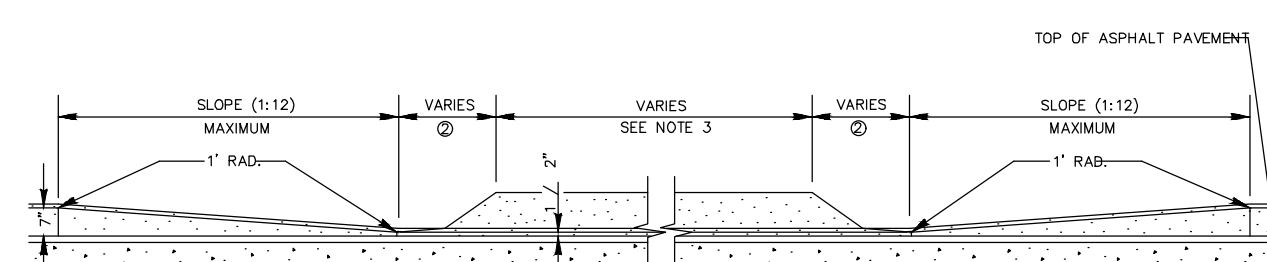
CONCRETE DRIVEWAY NOTES

1. DRIVEWAY PENETRATION REFERS TO A PORTION OF THE DRIVEWAY THAT MAY BE NECESSARY TO RECONSTRUCT WITHIN PRIVATE PROPERTY TO COMPLY WITH A MAXIMUM DRIVEWAY SLOPE. THIS PORTION OF THE DRIVEWAY SHALL BE PAID FOR UNDER THE FOLLOWING ITEMS AS MAY APPLY:
A) CONCRETE DRIVEWAY PAD FOR UNDER ITEM NO. 503.1 OR 503.2
B) ASPHALTIC CONCRETE DRIVEWAY PAD FOR UNDER ITEM NO. 503.4 AND SHALL INCLUDE A MINIMUM OF 1" ASPHALT TYPE 'D' & 6" FLEXIBLE BASE
C) GRAVEL DRIVEWAY PAD FOR UNDER ITEM NO. 503.5 AND SHALL INCLUDE A MINIMUM OF 6" FLEXIBLE BASE
2. 2" MINIMUM HEIGHT WILL NOT NECESSARILY OCCUR AT THE PROPERTY LINE. IT MAY OCCUR WITHIN THE RIGHT OF WAY OR WITHIN THE DRIVEWAY PENETRATION ON PRIVATE PROPERTY.
3. THE PROPOSED DRIVEWAY SHOULD MATCH THE EXISTING WITHIN THE PROPERTY LINE BUT UNLESS AUTHORIZED BY THE CITY TRAFFIC ENGINEER, THE WIDTH SHALL BE WITHIN THE FOLLOWING VALUES:

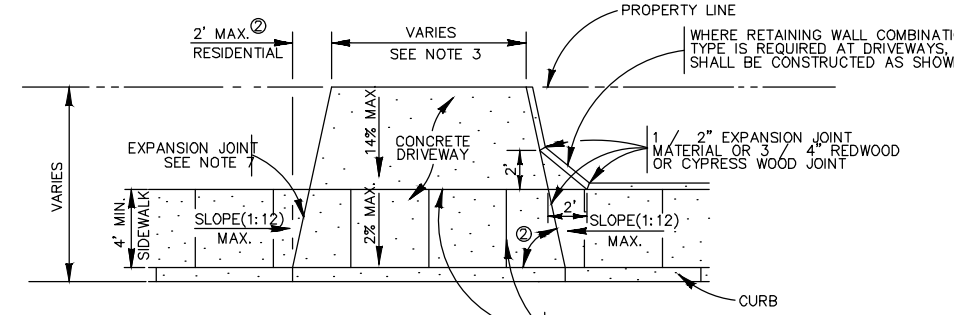
TYPE	MINIMUM	MAXIMUM
RESIDENTIAL - ONE WAY	10'	20'
COMMERCIAL - ONE WAY	12'	20'
COMMERCIAL - TWO WAY	20'	30'
4. FOR LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 3' FROM THE BACK OF CURB.
5. FOR OTHER THAN LOCAL TYPE "A" STREETS, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 4' AND SEPARATED A MINIMUM OF 3' FROM THE BACK OF CURB OR, AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6' WHEN LOCATED AT THE BACK OF CURB.
6. DUMMY JOINTS PARALLEL TO THE CURB SHALL BE PLACED WHERE THE SIDEWALK MEETS THE DRIVEWAY. DUMMY JOINTS PERPENDICULAR TO THE CURB AND WITHIN THE BOUNDARIES OF THE PARALLEL DUMMY JOINTS, SHALL BE PLACED AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.
7. A MINIMUM OF TWO ROUND AND SMOOTH DOWEL BARS 3/8" IN DIAMETER AND 18" IN LENGTH SHALL BE SPACED 18" APART AT EACH EXPANSION JOINT. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
8. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE. WHERE SIDEWALKS CROSS DRIVEWAYS, SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
9. SIDEWALK RAMP SURFACE SHALL BE BRUSH FINISHED.



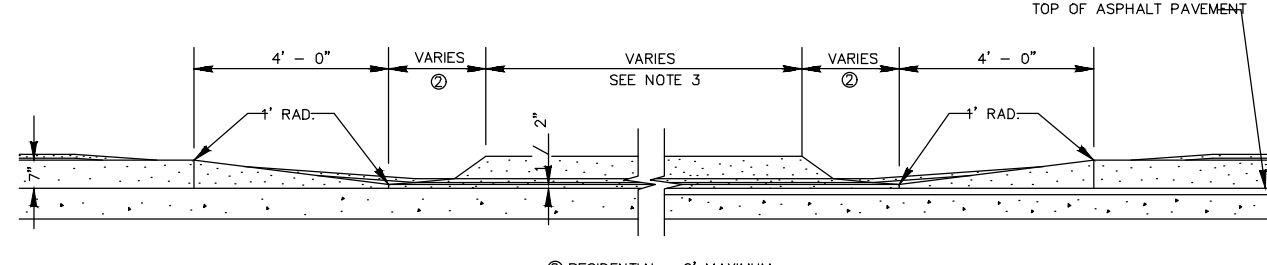
DRIVEWAY - CONCRETE RETAINING WALL
ITEM 507.1



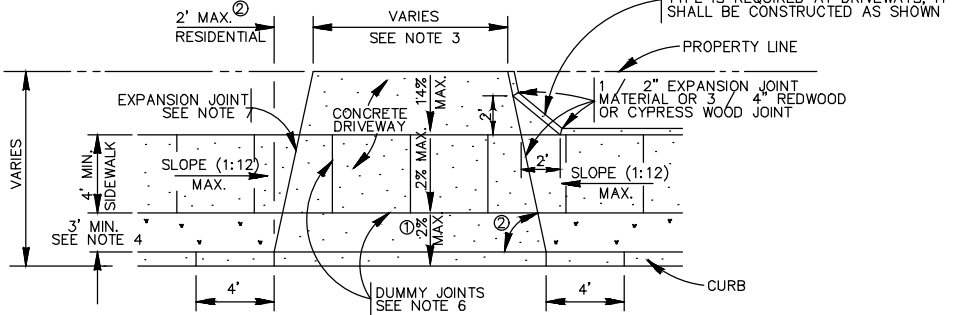
CURB PROFILE AT DRIVEWAY
WITH SIDEWALK ABUTTING CURB



TYPICAL DRIVEWAY PLAN VIEW
WITH SIDEWALK ABUTTING CURB



CURB PROFILE AT DRIVEWAY
WITH SIDEWALK SEPARATED FROM CURB



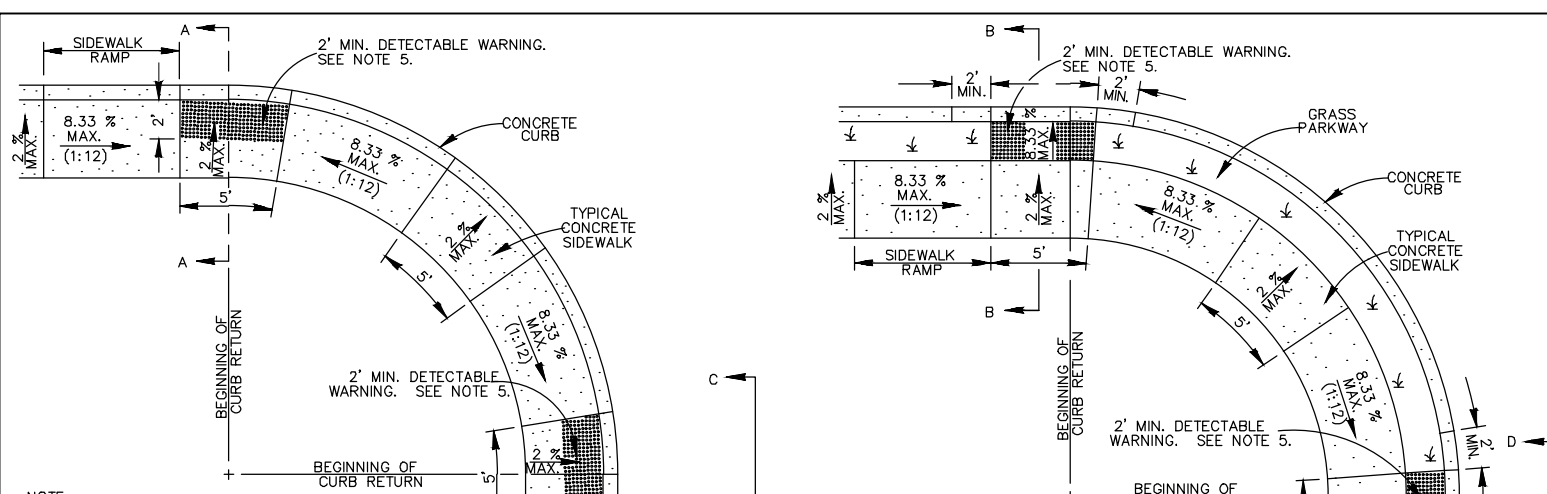
TYPICAL DRIVEWAY PLAN VIEW
WITH SIDEWALK SEPARATED FROM CURB

MAY 2009

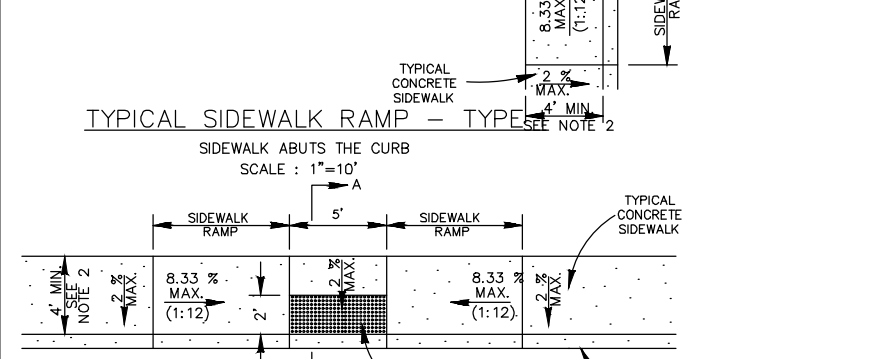
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

CONCRETE DRIVEWAY STANDARDS

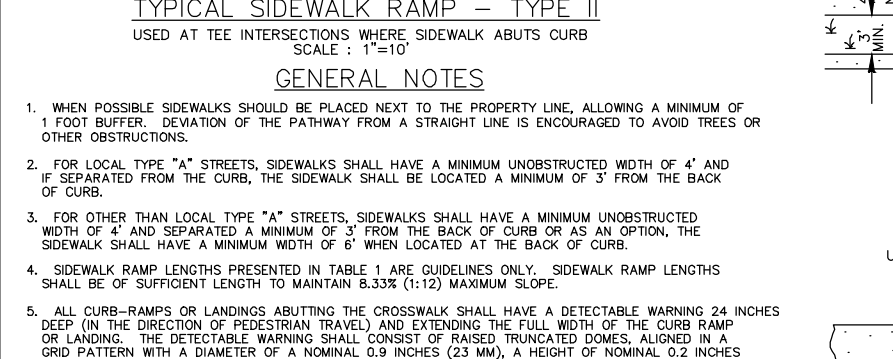
DESIGNED BY	PROJECT NO.	DRAWN BY	CHECKED BY	DATE
CHEN BY	5030007	CHEN BY	5030007	7/2



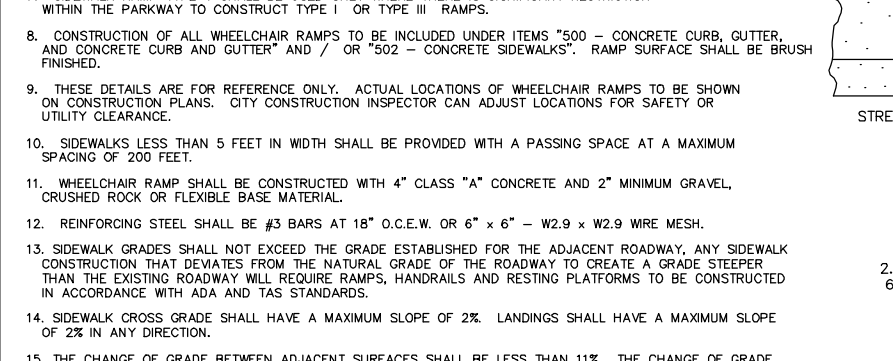
TYPICAL SIDEWALK RAMP - TYPE I
SCALE: 1"=10"



TYPICAL SIDEWALK RAMP - TYPE II
SCALE: 1"=10"



TYPICAL SIDEWALK RAMP - TYPE III
SCALE: 1"=10"



TYPICAL SIDEWALK RAMP - TYPE IV
SCALE: 1"=10"

GENERAL NOTES

1. WHEN POSSIBLE SIDEWALKS SHOULD BE PLACED NEXT TO THE PROPERTY LINE, ALLOWING A MINIMUM OF 1 FOOT BUFFER. LOCATION OF THE PATHWAY FROM A STRAIGHT LINE IS DOCUMENTED TO AVOID TREES OR OTHER OBSTRUCTIONS.
2. FOR LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 3' FROM THE BACK OF CURB.
3. FOR OTHER THAN LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4' AND SEPARATED A MINIMUM OF 3' FROM THE BACK OF CURB OR, AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6' WHEN LOCATED AT THE BACK OF CURB.
4. SIDEWALK RAMP LENGTHS PRESENTED IN TABLE 1 ARE GUIDELINES ONLY. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE.
5. ALL CURB, RAMPS OR LANDINGS ABUTTING THE CROWN SHALL HAVE A DETECTABLE WARNING 24 INCHES DEEP IN THE DIRECTION OF PEDESTRIAN TRAVEL AND EXTENDING THE FULL WIDTH OF THE CURB RAMP OR LANDINGS. THE DETECTABLE WARNING SHALL BE CONSTRUCTED OF RAMPED, TRANSCUTED CONCRETE OR A 2" MINIMUM GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL. THE DETECTABLE WARNING SHALL BE PLACED CONFORMING TO TEST STANDARD F80-26, PEDESTRIAN FACILITIES.
6. DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJACENT SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WARNING SURFACE.
7. SIDEWALK RAMP TYPE V SHALL BE USED ONLY WHERE THERE IS A SIGNIFICANT RESTRICTION WITHIN THE PATHWAY TO CONSTRUCT TYPE I OR TYPE II RAMPS.
8. CONSTRUCTION OF ALL SIDEWALK RAMPS TO BE CONSTRUCTED WITHIN 50' - CONCRETE CURB, DUTCH, AND CONCRETE CURB AND DUTCH AND / OR 50' - CONCRETE SIDEWALKS. RAMP SURFACE SHALL BE BRUSH FINISHED.
9. THESE DETAILS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS OF SIDEWALK RAMPS TO BE SHOWN ON CONSTRUCTION PLANS. CITY CONSTRUCTION INSPECTOR CAN ADJUST LOCATIONS FOR SAFETY OR UTILITY CLEARANCE.
10. SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.
11. SIDEWALK RAMP TYPE V SHALL BE CONSTRUCTED WITH 4" CLASS "A" CONCRETE AND 2" MINIMUM GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL.
12. REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C. OR 6" x 6" - W2.9 x W2.9 WIRE MESH.
13. SIDEWALK GRABES SHALL NOT EXCEED THE GRADE ESTABLISHED FOR THE ADJACENT ROADWAY. ANY SIDEWALK CONSTRUCTION THAT DEVIATES FROM THE NATURAL GRADE OF THE ADJACENT SURFACE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ADA AND T&S STANDARDS.
14. SIDEWALK CROSS GRADE SHALL HAVE A MINIMUM SLOPE OF 2% LANDINGS SHALL HAVE A MINIMUM SLOPE OF 2% IN ANY DIRECTION.
15. THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES SHALL BE LESS THAN 1/8". THE CHANGE OF GRADE SHALL BE DEFINED AS THE ALGEBRAIC DIFFERENCE OF THE ADJACENT SURFACE SLOPES. IN THE CASE OF A STREET ACCESS RAMP DESIGNED AT THE 1:12 MAXIMUM SLOPE, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN 2.0% (E.G. 0.33% - (-2.67%) = 3.0%). IN ADDITION, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 1%.
16. IF THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES IS GREATER THAN OR EQUAL TO 1/8", A LEVELING STRIP, 2 FEET IN LENGTH, SHALL BE PROVIDED TO TRANSITION THE ADJACENT SURFACES.
17. ADA COMPLIANCE IN ALTERATIONS INCLUDE ONLY THAT WORK WITHIN THE LIMITS BOUNDARIES ON SCOPE.

DETECTABLE WARNING SURFACE

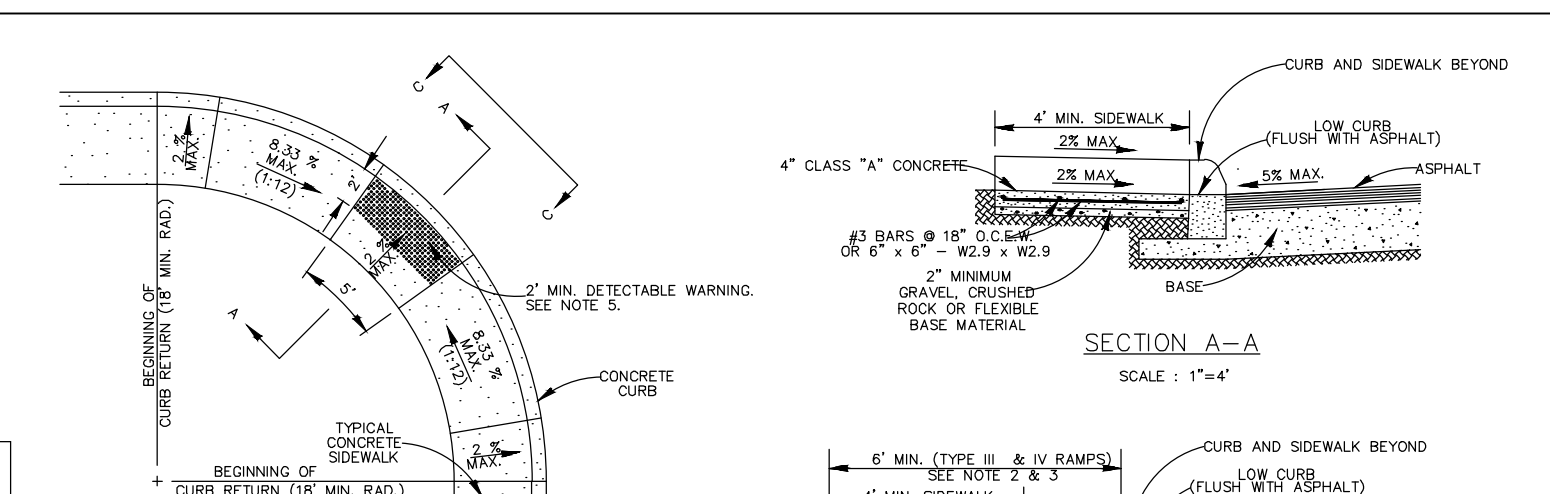
DETECTABLE WARNING SURFACE
SCALE: 1"=4"

PLAN DETAIL

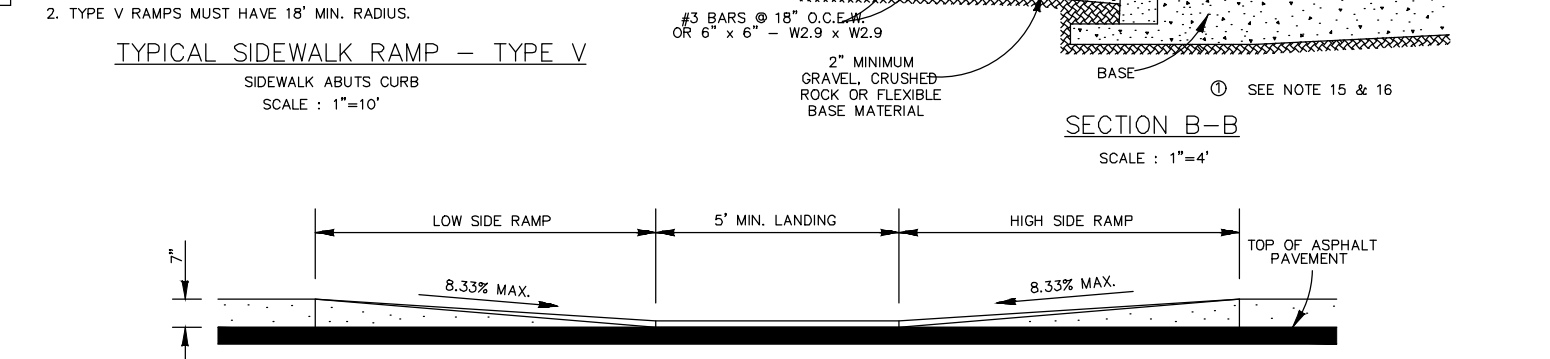
PLAN DETAIL

DOME SECTION

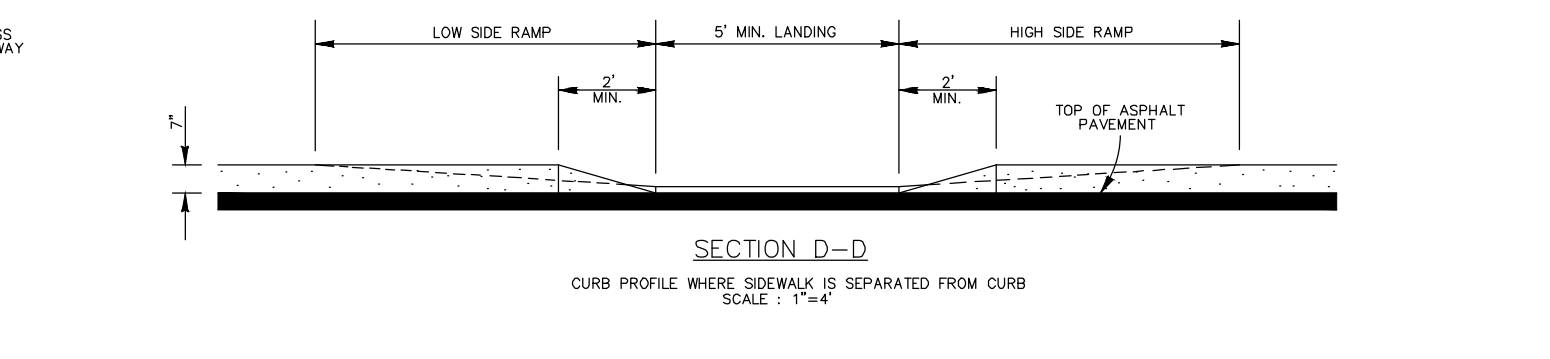
DOME SECTION



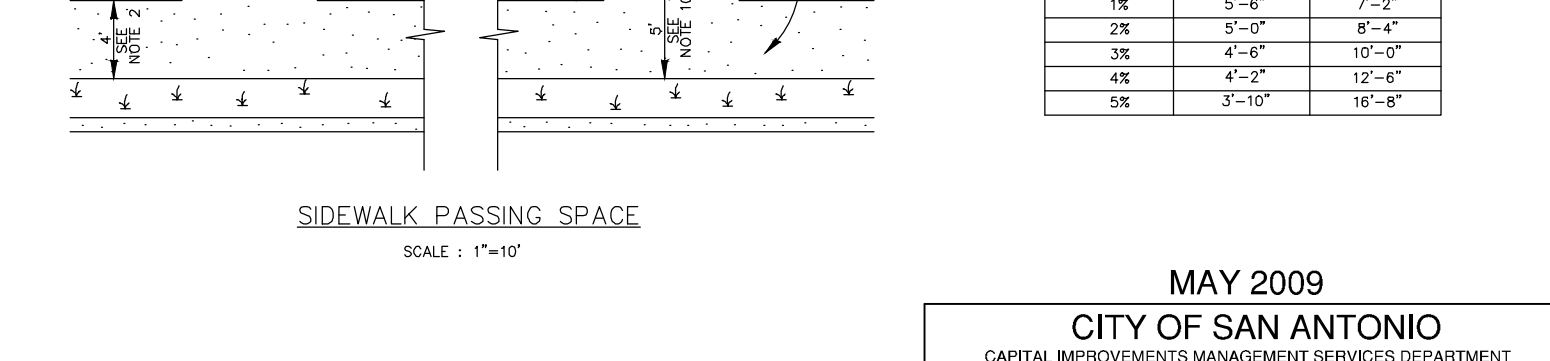
TYPICAL SIDEWALK RAMP - TYPE V
SCALE: 1"=10"



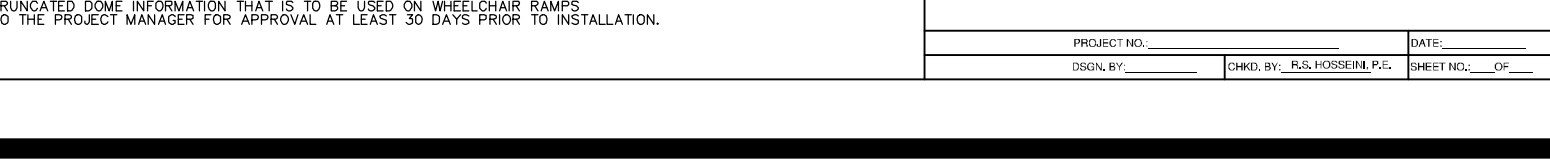
TYPICAL SIDEWALK RAMP - TYPE VI
SCALE: 1"=10"



TYPICAL SIDEWALK RAMP - TYPE VII
SCALE: 1"=10"



TYPICAL SIDEWALK RAMP - TYPE VIII
SCALE: 1"=10"



TYPICAL SIDEWALK RAMP - TYPE IX
SCALE: 1"=10"

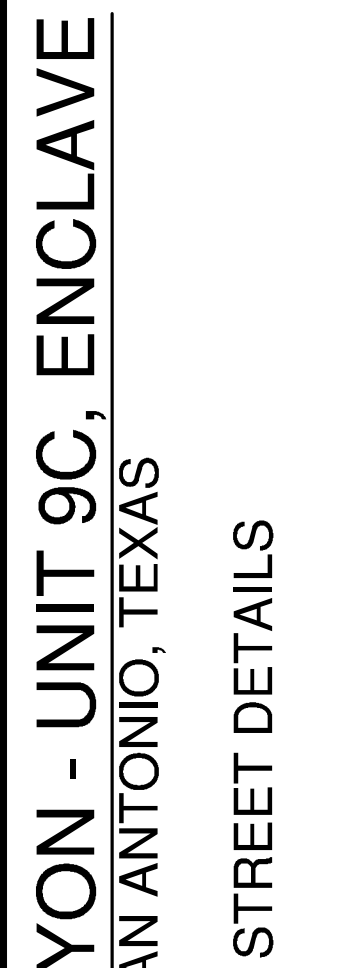
MAY 2009

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

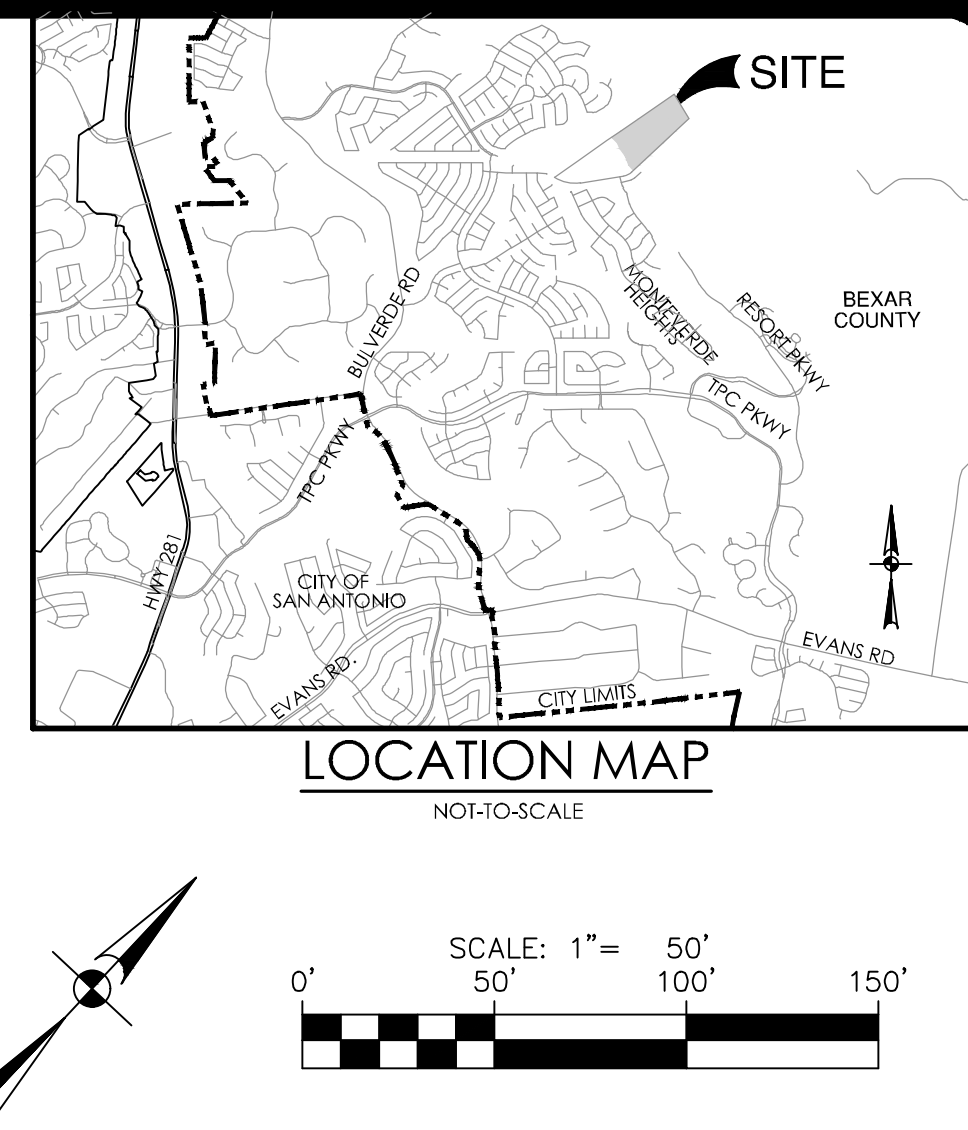
WHEELCHAIR RAMP STANDARDS

DESIGNED BY	PROJECT NO.	DRAWN BY	CHECKED BY	DATE
CHEN BY	5030007	CHEN BY	5030007	7/2

DATE	NO.	REVISION



PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	JUNE 2023
DESIGNER	CB
CHECKED	BS
DRAWN	FP
SHEET	C2.09



DRIVEWAY NOTE:

DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE NETWORK, LOTLINE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA TO IDENTIFY ANY POTENTIAL CONFLICTS. THE TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS AND THE EXISTING LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

PLAT NO. 22-1180041
 JOB NO. 12125-08
 DATE JUNE 2023
 DESIGNER CB
 CHECKED BS DRAWN FP
 SHEET C3.01

SIGN SUPPORT DESCRIPTIVE CODES

(Description codes correspond to project estimates and quantities listed.)

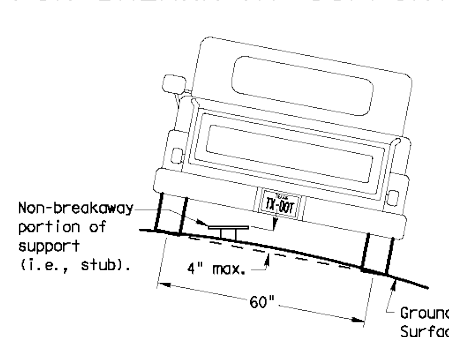
SM RD SGN ASSM TY XXXX(X)XX(X-XXXX)

Post Type
 FIP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
 TW = Thin-walled Tubing (see SMD(TW))
 TBM = 10 BW Tubing (see SMD(SLP-1) to (SLP-3))
 S80 = Schedule 80 Pipe (see SMD(SLP-1) to (SLP-3))

Number of Posts (1 or 2)
Anchor Type
 UA = Universal Anchor - Bolted down (see SMD(FRP) and (TW))
 UB = Universal Anchor - Bolted down (see SMD(FRP) and (TW))
 W = Wedge Anchor Steel (see SMD(TW))
 WA = Wedge Anchor Plastic (see SMD(TW))
 SA = S-I Post - Bolted down (see SMD(SLP-1) to (SLP-3))
 SB = S-I Post - Bolted down (see SMD(SLP-1) to (SLP-3))

Sign Mounting Designation
 P = Pretop, "P" (see SMD(SLP-1) to (SLP-3), (TW), (FRP))
 T = Pretop, "T" (see SMD(SLP-1) to (SLP-3), (TW))
 U = Pretop, "U" (see SMD(SLP-1) to (SLP-3), (TW))
 EXT = Number of Extensions (see SMD(SLP-1) to (SLP-3), (TW))
 W = Extruded Wing Beam (see SMD(SLP-1) to (SLP-3))
 WC = 1/2" x 1/2" Wing Channel (see SMD(SLP-1) to (SLP-3))
 EXAL = Extruded Aluminum Sign Panels (see SMD(SLP-1))

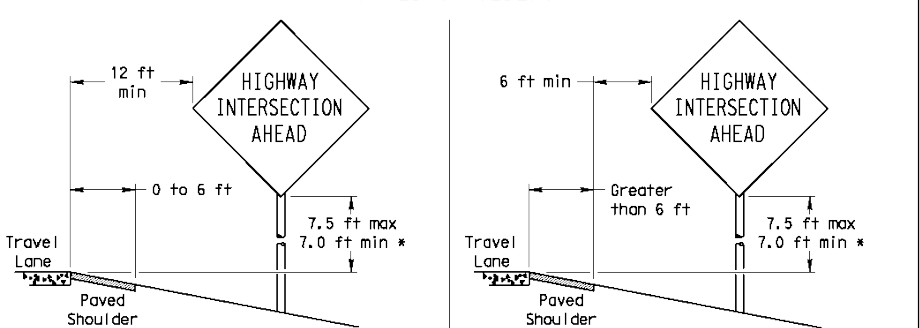
REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheel paths).

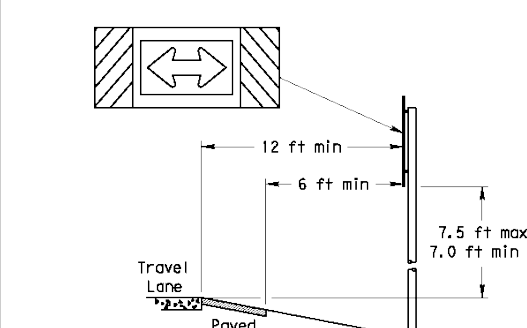
SIGN LOCATION

PAVED SHOULDERS



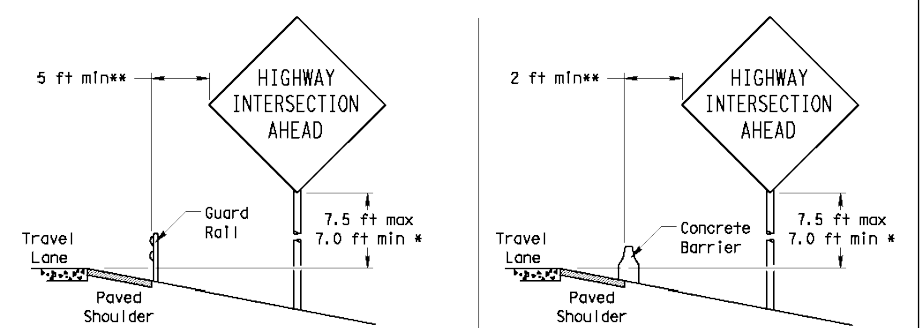
When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.

T-INTERSECTION



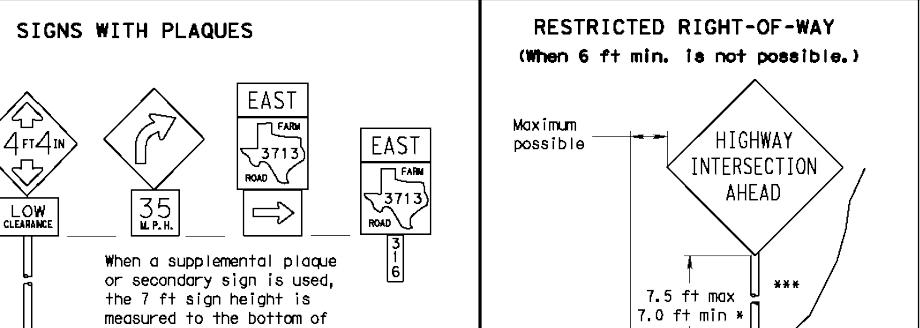
When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the center line of the roadway. Place as close to ROW as practical.

BEHIND BARRIER



When the shoulder is greater than 6 ft. in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

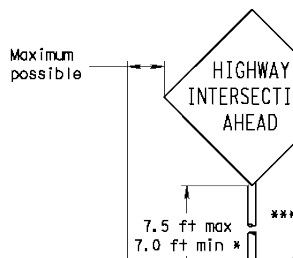
BEHIND GUARDRAIL



**Sign clearance based on distance required for proper guard rail or concrete barrier performance.

RESTRICTED RIGHT-OF-WAY

(When 6 ft. min. is not possible.)



When a supplemental plaque or secondary sign is required, the 7 ft. sign height is required to the bottom of the supplemental plaque or secondary sign.

* Signs shall be mounted using the following condition that results in the greatest sign elevation:
 (1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or
 (2) a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the sign when sign is installed on the backstop.
 The maximum values may be increased when directed by the Engineer.
 See the Traffic Operations Division website for detailed drawings of sign classes, Triangular Slipbase System components and Wedge Anchor System components.
 The website address is:
<http://www.tdot.org/publications/traffic.htm>

Texas Department of Transportation
 Traffic Operations Division

SIGN MOUNTING DETAILS

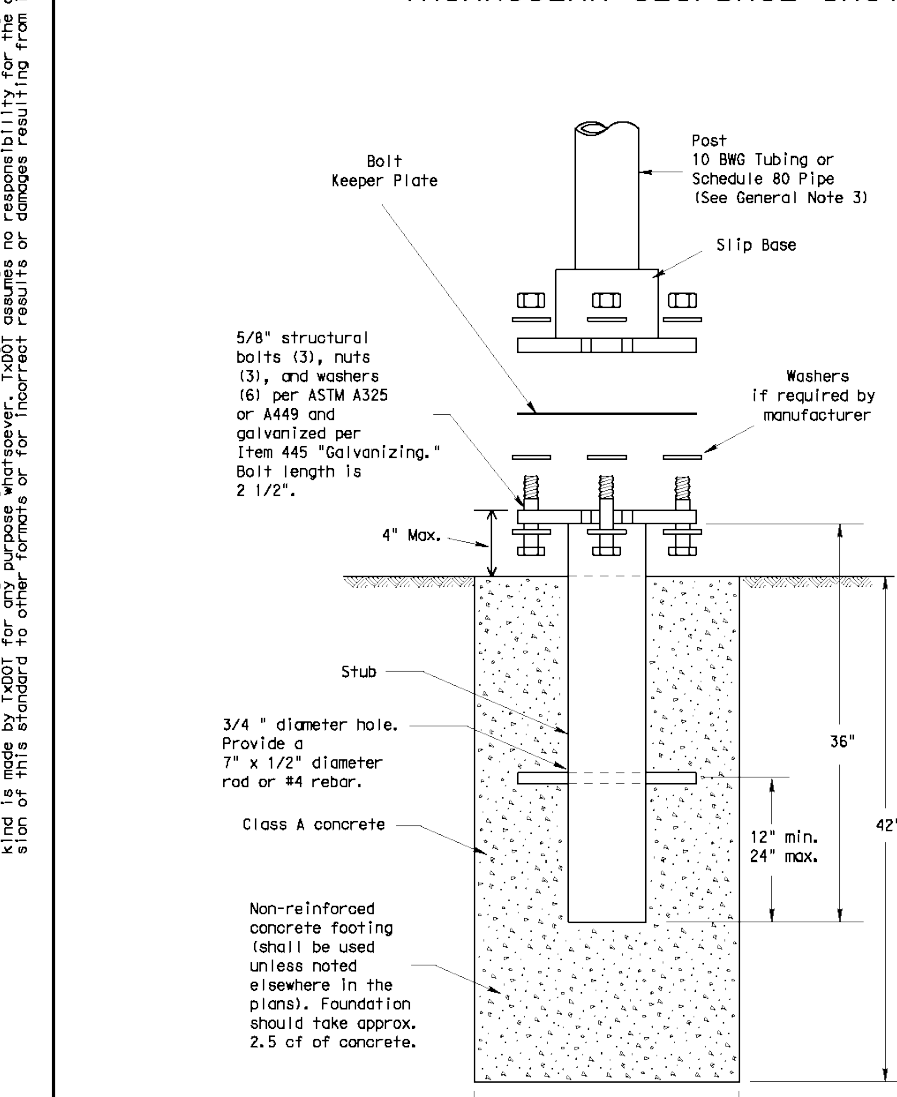
SMALL ROADSIDE SIGNS

GENERAL NOTES & DETAILS

SMD (GEN) -08

DATE	REVISION	BY	CHK	APP	DESCRIPTION
9-08	1	WATSON	DAW	DAW	REVISION

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

- Slip base shall be permanently marked to indicate manufacturer, method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
- Material used as post with this system shall conform to the following specifications:
 10 BW Tubing (2.875" outside diameter)
 0.14" wall thickness
 Seamless or electric-resistance welded steel tubing or pipe
 Steel shall be A513 or 50 per ASTM A513 or ASTM A508
 Other steels may be used if they meet the following:
 0.14" wall thickness
 70,000 PSI minimum tensile strength
 21X minimum elongation in 2"
 Wall thickness (uncoated) shall be within the range of 0.125" to 0.156"
 Outside diameter (uncoated) shall be within the range of 2.875" to 3.875"
 Galvanization per ASTM A123 or ASTM A653, G40, or pre-treated steel having (ASTM A653), recast
 tube outside diameter weld seam by metalizing with zinc wire per ASTM B833.
 Schedule 80 Pipe (2.875" outside diameter)
 0.216" wall thickness
 Steel tubing per ASTM A508 or 50
 Other seamless or electric-resistance welded steel tubing or pipe with equivalent
 outside diameter and wall thickness may be used if they meet the following:
 60,000 PSI minimum yield strength
 21X minimum tensile strength
 21X minimum elongation in 2"
 Wall thickness (uncoated) shall be within the range of 0.248" to 0.304"
 Outside diameter (uncoated) shall be within the range of 2.875" to 3.875"
- See the Traffic Operations Division website for detailed drawings of sign classes and Texas Universal Triangular Slipbase System components. The website address is:
<http://www.tdot.org/publications/traffic.htm>
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

Foundation

- Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
- The Engineer may permit bottom of concrete (use min. 4" radius) to be filled with a portable, motor-driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class 6.
- Push the pipe and the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to ensure good contact between the concrete and stub.
- Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground.
- Place the steel. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.

Support

- Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the travelway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the travelway. The cut shall be clean and straight.
- Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLP-2) for clearances based on sign types.

Texas Department of Transportation
 Traffic Operations Division

SIGN MOUNTING DETAILS

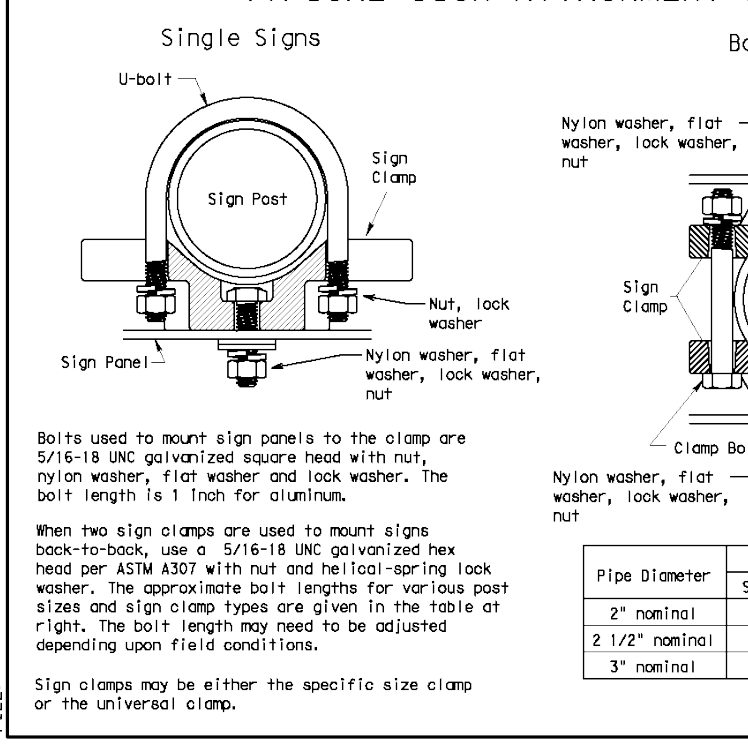
SMALL ROADSIDE SIGNS

TRIANGULAR SLIPBASE SYSTEM

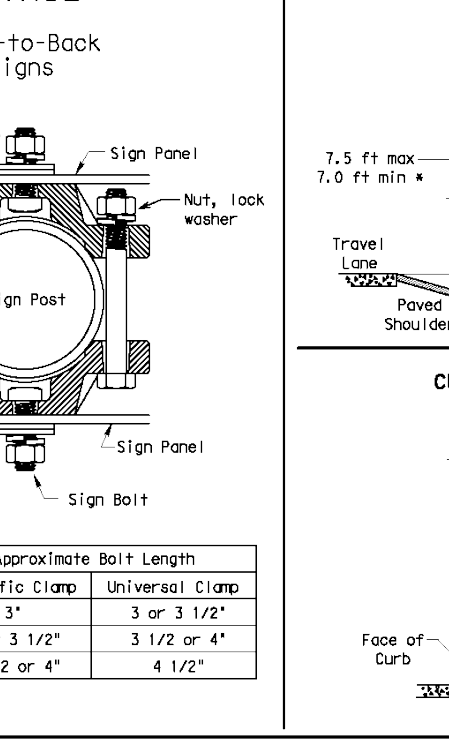
SMD (SLIP-1) -08

DATE	REVISION	BY	CHK	APP	DESCRIPTION
9-08	1	WATSON	DAW	DAW	REVISION

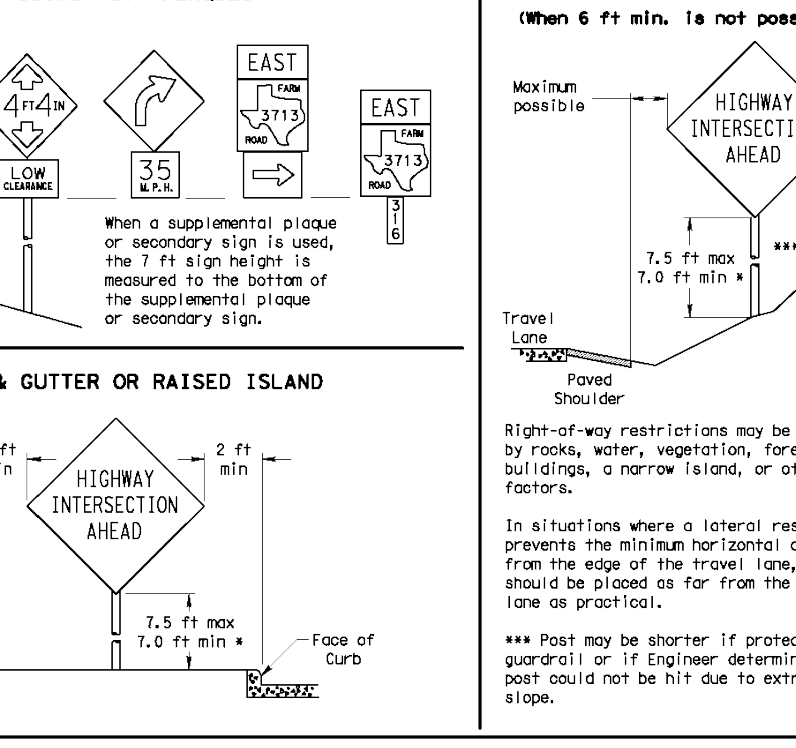
TYPICAL SIGN ATTACHMENT DETAIL



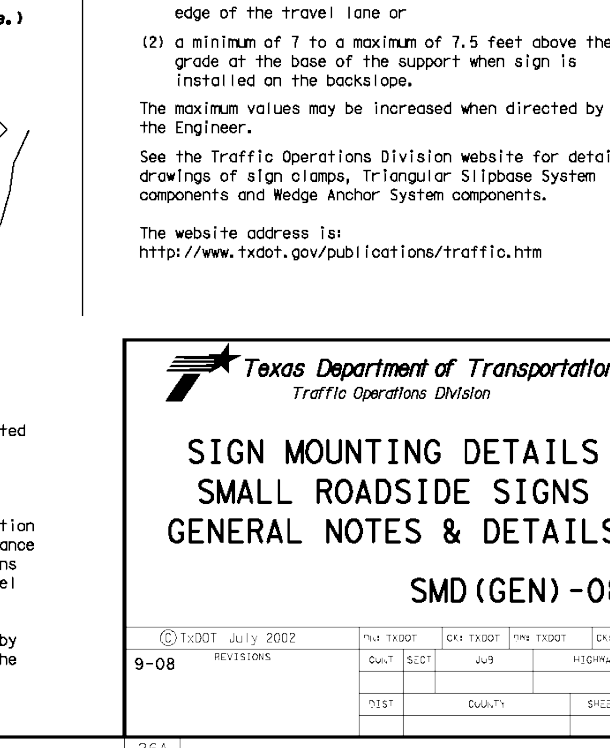
Back-to-Back Signs



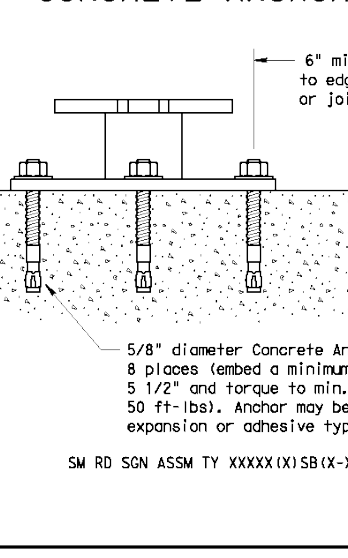
SIGNS WITH PLAQUES



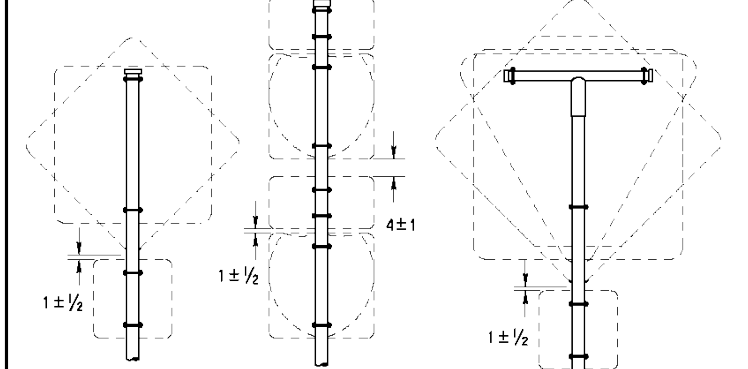
CURB & GUTTER OR RAISED ISLAND



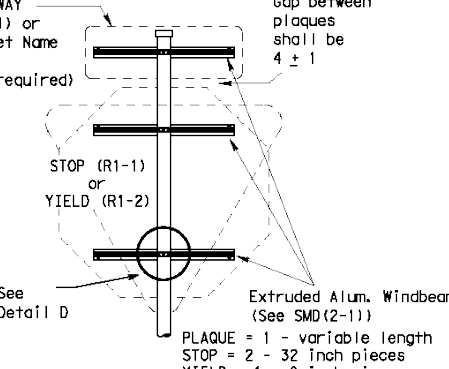
CONCRETE ANCHOR



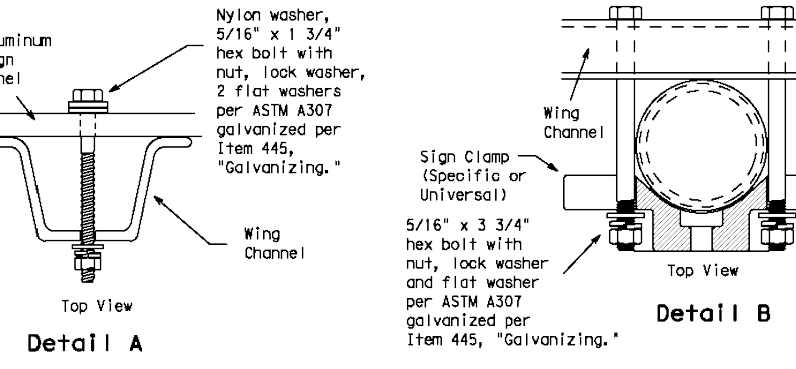
ONE-WAY



STOP (R1-1)



YIELD (R1-2)



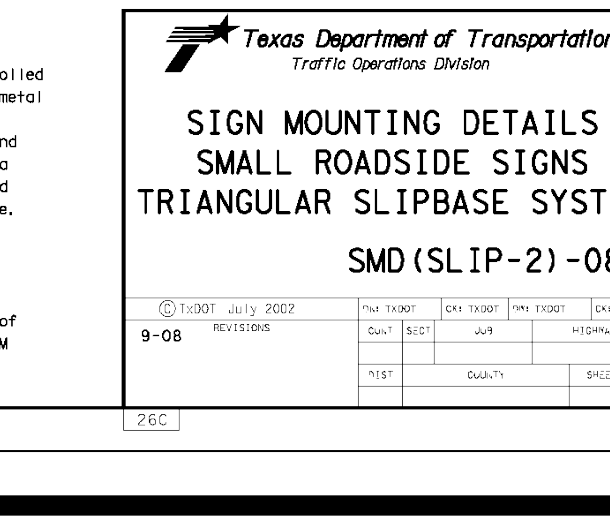
GENERAL NOTES:

- The Engineer may require that a Schedule 80 post be used in place of a 10 BW where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications SMD-1110 and shall have the following minimum dimensions: 0.060 for signs less than 15 sq. ft., 0.100 for signs 15 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- Signs shall require additional supports for reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- For horizontal rectangular signs fabricated from flat aluminum, brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
- When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Wing channel, wing channel, or window shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front). Rectangular galvanized coating on cut support ends per Item 445, "Galvanizing."
- Additional support markers may be added vertically, provided the total sign does not exceed the maximum allowable amount per Note 1.
- Additional sign clamp required on the "bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
- Post open ends shall be fitted with Friction Caps.
- Sign blanks shall be the sizes and shapes shown on the plans.

REQUIRED SUPPORT

SIGN DESCRIPTION	SUPPORT
48-inch STOP sign (R1-1)	TY 10BW(1)(XX)(T)
48-inch YIELD sign (R1-2)	TY 10BW(1)(XX)(T)
60-inch YIELD sign (R1-2)	TY 10BW(1)(XX)(T)
48x48-inch ONE-WAY sign (R6-1)	TY 10BW(1)(XX)(T)
36x48, 48x36, and 48x48-inch signs	TY 10BW(1)(XX)(T)
48x60-inch signs	TY S80(1)(XX)(T)
48x48-inch signs (diamond or square)	TY 10BW(1)(XX)(T)
48x60-inch signs	TY S80(1)(XX)(T)
48-inch Advance School X-ing sign (S1-1)	TY 10BW(1)(XX)(T)
48-inch School X-ing sign (S2-1)	TY 10BW(1)(XX)(T)
Large Arrow sign (W1-6 & W1-7)	TY 10BW(1)(XX)(T)

FRICION CAP DETAIL



Friction caps may be manufactured from flat rolled or cold rolled steel sheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes. The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a driven friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp creases or indentations and show no evidence of metal fracture. Caps shall have an electrocoat/epoxy coating of zinc in accordance with the requirements of ASTM B633 Class FE/Zn 8.

Texas Department of Transportation
 Traffic Operations Division

SIGN MOUNTING DETAILS

SMALL ROADSIDE SIGNS

TRIANGULAR SLIPBASE SYSTEM

SMD (SLIP-2) -08

DATE	REVISION	BY	CHK	APP	DESCRIPTION
9-08	1	WATSON	DAW	DAW	REVISION

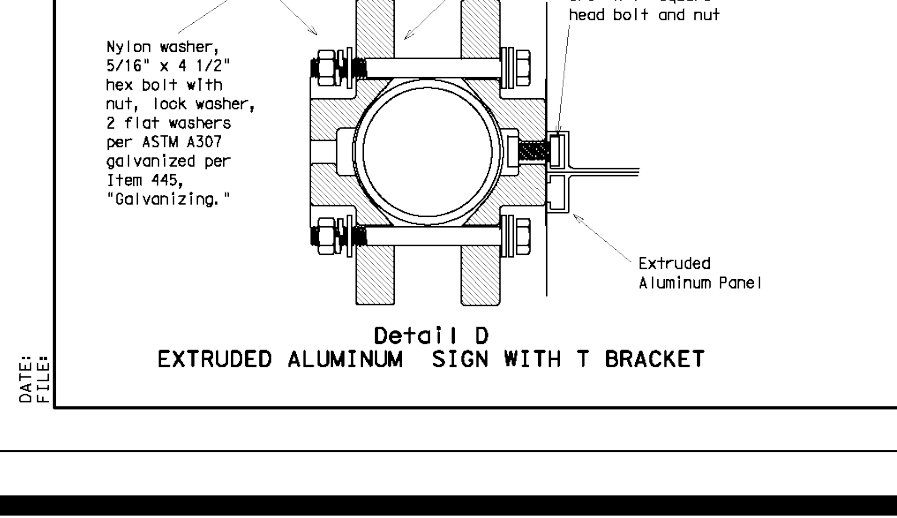
GENERAL NOTES:

- The Engineer may require that a Schedule 80 post be used in place of a 10 BW where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications SMD-1110 and shall have the following minimum dimensions: 0.060 for signs less than 15 sq. ft., 0.100 for signs 15 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- Signs shall require additional supports for reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- For horizontal rectangular signs fabricated from flat aluminum, brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
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- Wing channel, wing channel, or window shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front). Rectangular galvanized coating on cut support ends per Item 445, "Galvanizing."
- Additional support markers may be added vertically, provided the total sign does not exceed the maximum allowable amount per Note 1.
- Additional sign clamp required on the "bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
- Post open ends shall be fitted with Friction Caps.
- Sign blanks shall be the sizes and shapes shown on the plans.

REQUIRED SUPPORT

SIGN DESCRIPTION	SUPPORT
48-inch STOP sign (R1-1)	TY 10BW(1)(XX)(T)
48-inch YIELD sign (R1-2)	TY 10BW(1)(XX)(T)
60-inch YIELD sign (R1-2)	TY 10BW(1)(XX)(T)
48x48-inch ONE-WAY sign (R6-1)	TY 10BW(1)(XX)(T)
36x48, 48x36, and 48x48-inch signs	TY 10BW(1)(XX)(T)
48x60-inch signs	TY S80(1)(XX)(T)
48x48-inch signs (diamond or square)	TY 10BW(1)(XX)(T)
48x60-inch signs	TY S80(1)(XX)(T)
48-inch Advance School X-ing sign (S1-1)	TY 10BW(1)(XX)(T)
48-inch School X-ing sign (S2-1)	TY 10BW(1)(XX)(T)
Large Arrow sign (W1-6 & W1-7)	TY 10BW(1)(XX)(T)

FRICION CAP DETAIL



Friction caps may be manufactured from flat rolled or cold rolled steel sheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes. The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a driven friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp creases or indentations and show no evidence of metal fracture. Caps shall have an electrocoat/epoxy coating of zinc in accordance with the requirements of ASTM B633 Class FE/Zn 8.

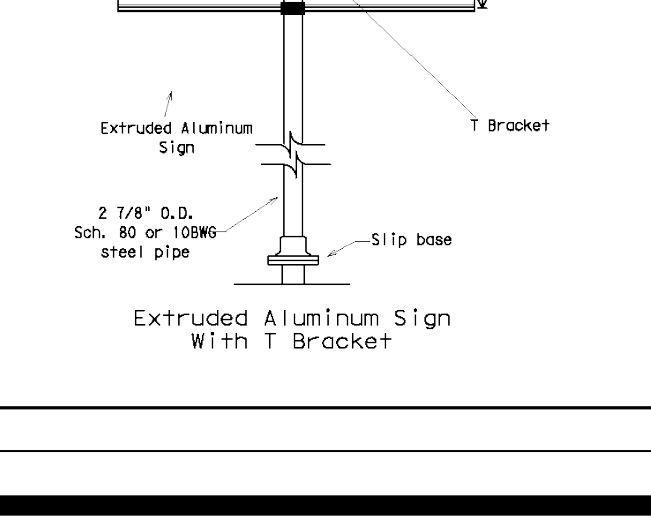
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FRICION CAP DETAIL



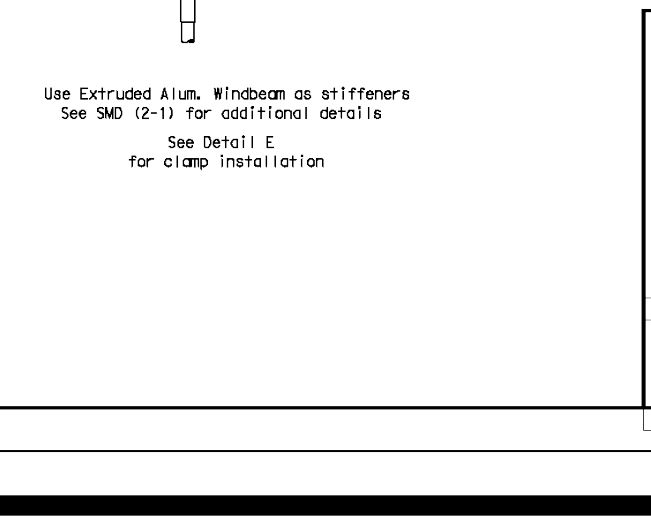
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FRICION CAP DETAIL



Texas Department of Transportation
 Traffic Operations Division

SIGN MOUNTING DETAILS

SMALL ROADSIDE SIGNS

TRIANGULAR SLIPBASE SYSTEM

SMD (SLIP-3) -08

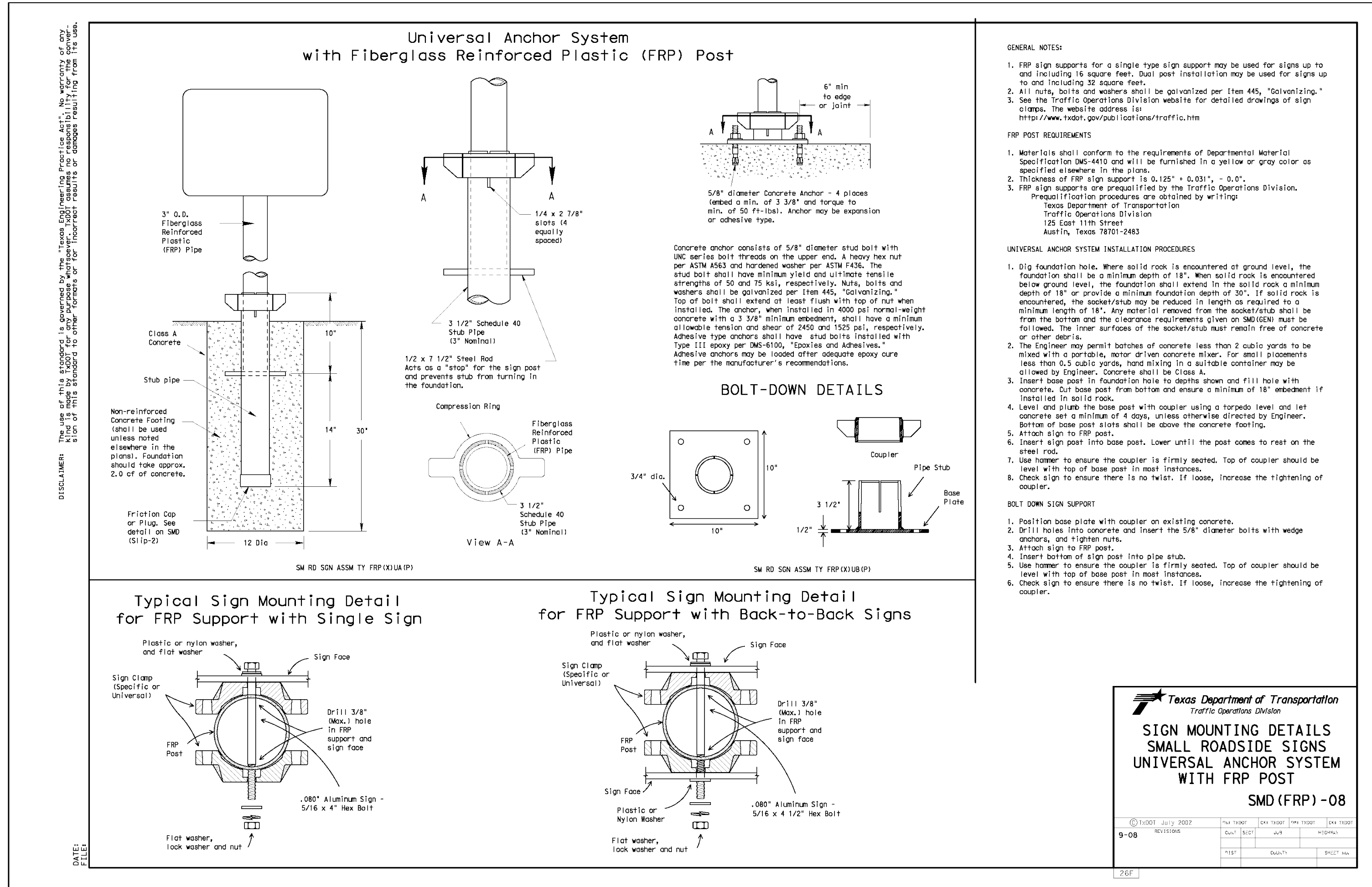
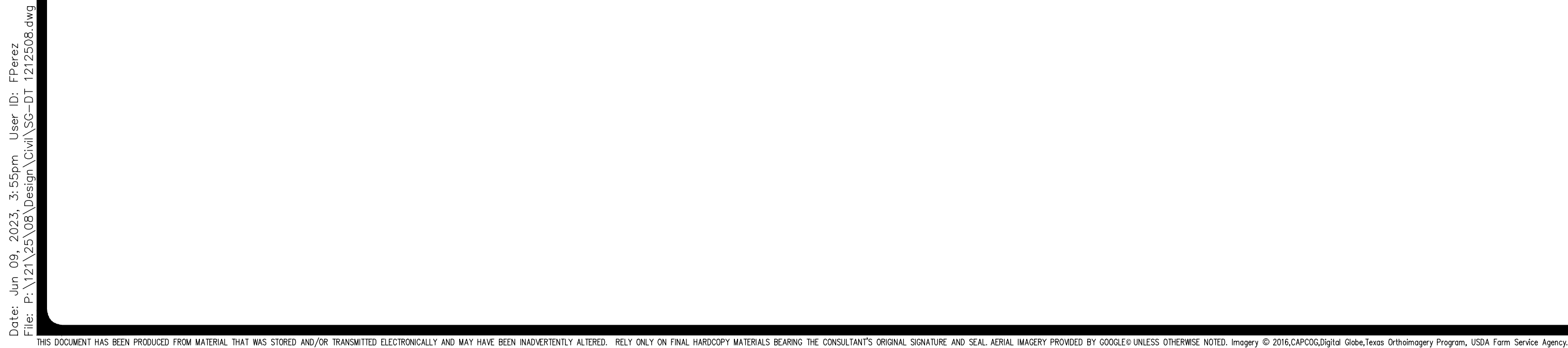
DATE	REVISION	BY	CHK	APP	DESCRIPTION
9-08	1	WATSON	DAW	DAW	REVISION

CIBOLO CANYON - UNIT 9C, ENCLAVE
 SAN ANTONIO, TEXAS

PLAT NO. 22-11800410
 JOB NO. 12125-08
 DATE JUN 2023
 DESIGNER CB
 CHECKED BS DRAWN FP
 SHEET C3.02

PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
 TYPE FIRM REGISTRATION #070 | TPBS FIRM REGISTRATION #1008860

BRUNA F. SPENGLER



Date: Jun 09, 2023, 3:56pm User ID: EFW02
File: P:\12125\08\Design\Chan\US 1212508.dwg

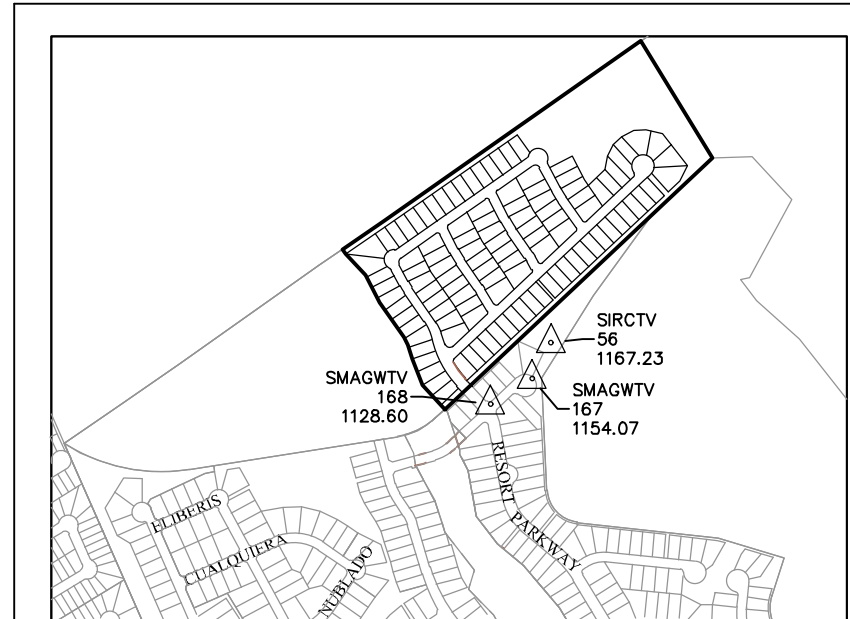
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE UNLESS OTHERWISE NOTED. Imagery © 2016, CAPOCO, Digital Globe, Texas Orthomography Program, USDA Farm Service Agency.



MATCHLINE - SEE SHEET C4.01

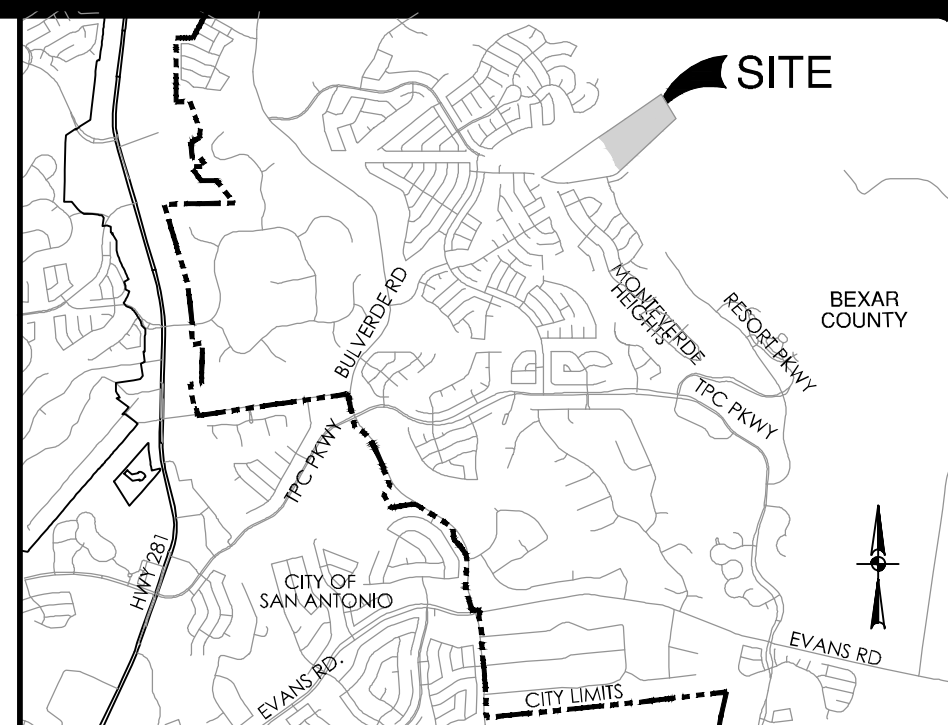
BENCHMARKS

HORIZONTAL AND VERTICAL CONTROL POINTS				
Point #	Northing	Easting	Elevation	Full Description
56	797,099.04	155,499.23	1167.23	SET I.R. REDCAP (TRAV)
167	796,912.86	155,400.01	1154.07	SET MAG NAIL & WASHER (TRAV)
168	796,780.98	155,183.21	1128.60	SET MAG NAIL & WASHER (TRAV)



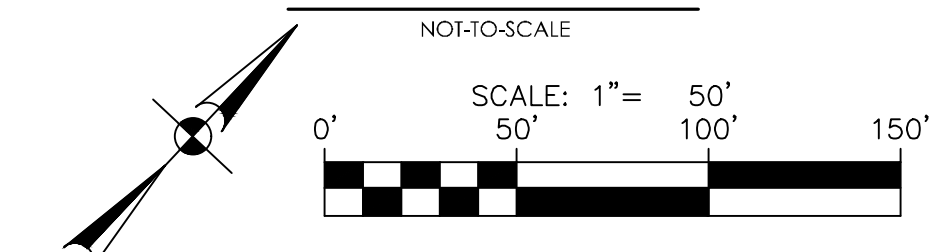
BENCHMARK LOCATION MAP
SCALE: N.T.S.

PIPE TYPE DESIGNATIONS
ARE 160 PSI SDR 26 D2241
PRESSURE PIPE (WHITE)
FOR 8" PVC PIPE

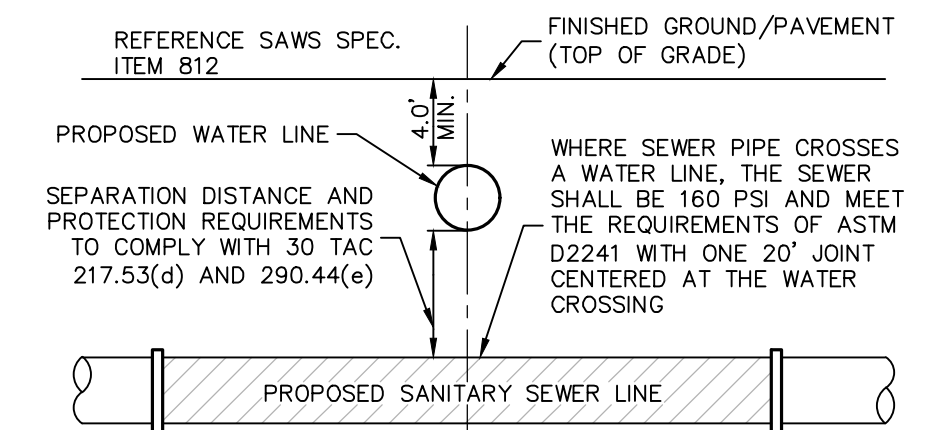
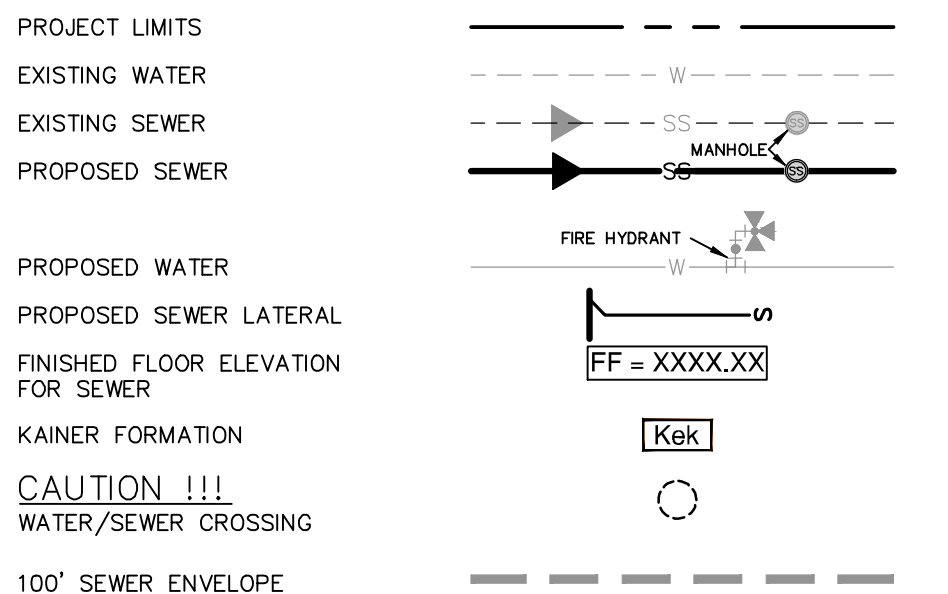


LOCATION MAP

NOT-TO-SCALE



SEWER LEGEND



TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

NOT-TO-SCALE

PRIVATE STREET DESIGNATION :

LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :

LOT 901, BLOCKS X AND LOT 901 BLOCK X ARE DESIGNATED AS PRIVATE OPEN SPACE, PERMEABLE AND AS A DRAINAGE, SEWER, WATER, GAS, ELECTRIC, TELEPHONE, CABLE TV AND PEDESTRIAN EASEMENT.

CONDUIT NOTES:

- CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURB WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
- CONDUITS SHALL BE PVC WITH MINIMUM BURY OF 30 INCHES. SCHEDULE 80 TO BE USED FOR OPS CONDUITS. ALL OTHER CONDUITS ARE SCHEDULE 40.
- ALL CONDUITS SHALL BE EXTENDED BEHIND CURBS OR PROPOSED SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

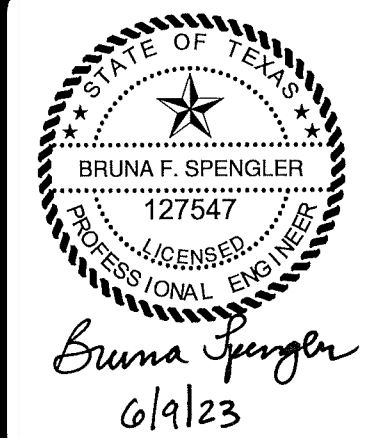
CAUTION!!!

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SEWER: EAST SEWERSHED - DOS RIOS - OVER E.A.R.Z.

DEVELOPER'S NAME: TF CIBOLO CANYONS, LP			
ADDRESS: 6310 CAPITAL DRIVE, SUITE 130			
CITY: LAKEWOOD RANCH	STATE: FLORIDA	ZIP: 34202	
PHONE# 941-388-0707	FAX# N/A		
SAWS BLOCK MAP# 186660 TOTAL EDU'S 106 TOTAL ACREAGE 37.16			
TOTAL LINEAR FOOTAGE OF PIPE: 4,520 LF - 8" PVC. PLAT NO. 22-11800410			
NUMBER OF LOTS 106 SAWS JOB NO. 22-1684			

DATE	NO.	REVISION



**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS

OVERALL SANITARY SEWER PLAN

PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	JUNE 2023
DESIGNER	CB
CHECKED	BS DRAWN
FP	
SHEET	C4.00

A map showing the proposed site location. The site is marked with a black dot and labeled "SITE". It is located in the northeast corner of the intersection of I-35 and I-10, just north of the I-69 interchange. The map shows the City of San Antonio to the southwest and Bexar County to the northeast. Major roads labeled include I-35, I-10, I-69, I-37, I-49, I-54, I-58, I-67, I-70, I-78, I-83, I-87, I-90, I-94, I-97, I-100, I-103, I-107, I-110, I-113, I-117, I-120, I-123, I-127, I-130, I-133, I-137, I-140, I-143, I-147, I-150, I-153, I-157, I-160, I-163, I-167, I-170, I-173, I-177, I-180, I-183, I-187, I-190, I-193, I-197, I-200, I-203, I-207, I-210, I-213, I-217, I-220, I-223, I-227, I-230, I-233, I-237, I-240, I-243, I-247, I-250, I-253, I-257, I-260, I-263, I-267, I-270, I-273, I-277, I-280, I-283, I-287, I-290, I-293, I-297, I-300, I-303, I-307, I-310, I-313, I-317, I-320, I-323, I-327, I-330, I-333, I-337, I-340, I-343, I-347, I-350, I-353, I-357, I-360, I-363, I-367, I-370, I-373, I-377, I-380, I-383, I-387, I-390, I-393, I-397, I-400, I-403, I-407, I-410, I-413, I-417, I-420, I-423, I-427, I-430, I-433, I-437, I-440, I-443, I-447, I-450, I-453, I-457, I-460, I-463, I-467, I-470, I-473, I-477, I-480, I-483, I-487, I-490, I-493, I-497, I-500, I-503, I-507, I-510, I-513, I-517, I-520, I-523, I-527, I-530, I-533, I-537, I-540, I-543, I-547, I-550, I-553, I-557, I-560, I-563, I-567, I-570, I-573, I-577, I-580, I-583, I-587, I-590, I-593, I-597, I-600, I-603, I-607, I-610, I-613, I-617, I-620, I-623, I-627, I-630, I-633, I-637, I-640, I-643, I-647, I-650, I-653, I-657, I-660, I-663, I-667, I-670, I-673, I-677, I-680, I-683, I-687, I-690, I-693, I-697, I-700, I-703, I-707, I-710, I-713, I-717, I-720, I-723, I-727, I-730, I-733, I-737, I-740, I-743, I-747, I-750, I-753, I-757, I-760, I-763, I-767, I-770, I-773, I-777, I-780, I-783, I-787, I-790, I-793, I-797, I-800, I-803, I-807, I-810, I-813, I-817, I-820, I-823, I-827, I-830, I-833, I-837, I-840, I-843, I-847, I-850, I-853, I-857, I-860, I-863, I-867, I-870, I-873, I-877, I-880, I-883, I-887, I-890, I-893, I-897, I-900, I-903, I-907, I-910, I-913, I-917, I-920, I-923, I-927, I-930, I-933, I-937, I-940, I-943, I-947, I-950, I-953, I-957, I-960, I-963, I-967, I-970, I-973, I-977, I-980, I-983, I-987, I-990, I-993, I-997, I-1000. The map also shows the City of San Antonio and Bexar County boundaries. A north arrow is located in the bottom right corner.

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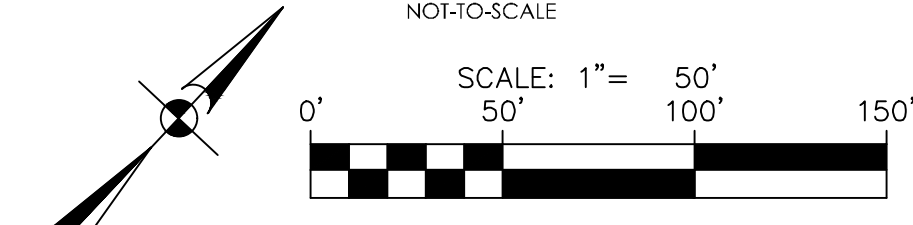
PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TPLS FIRM REGISTRATION #10028600

DO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS

OVERALL SANITARY SEWER PLAN

PLAT NO. 22-11800410
 JOB NO. 12125-08
 DATE JUNE 2023
 DESIGNER CB
 CHECKED BS DRAWN FP
 SHEET C4.01



PROJECT LIMITS

EXISTING WATER

EXISTING SEWER

PROPOSED SEWER

PROPOSED WATER

PROPOSED SEWER LATERAL

FINISHED FLOOR ELEVATION FOR SEWER

KAINER FORMATION

CAUTION !!!
WATER/SEWER CROSSING

100' SEWER ENVELOPE

W

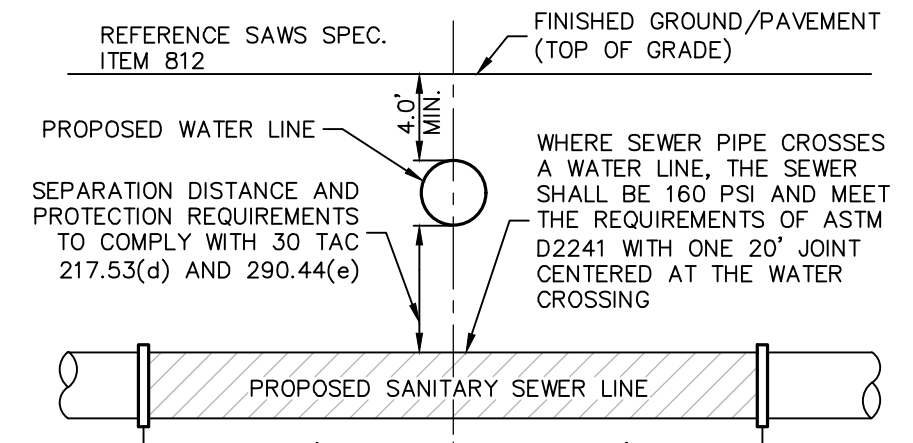
SS

MANHOLE

FIRE HYDRANT

FF = XXXX.XX

Kek



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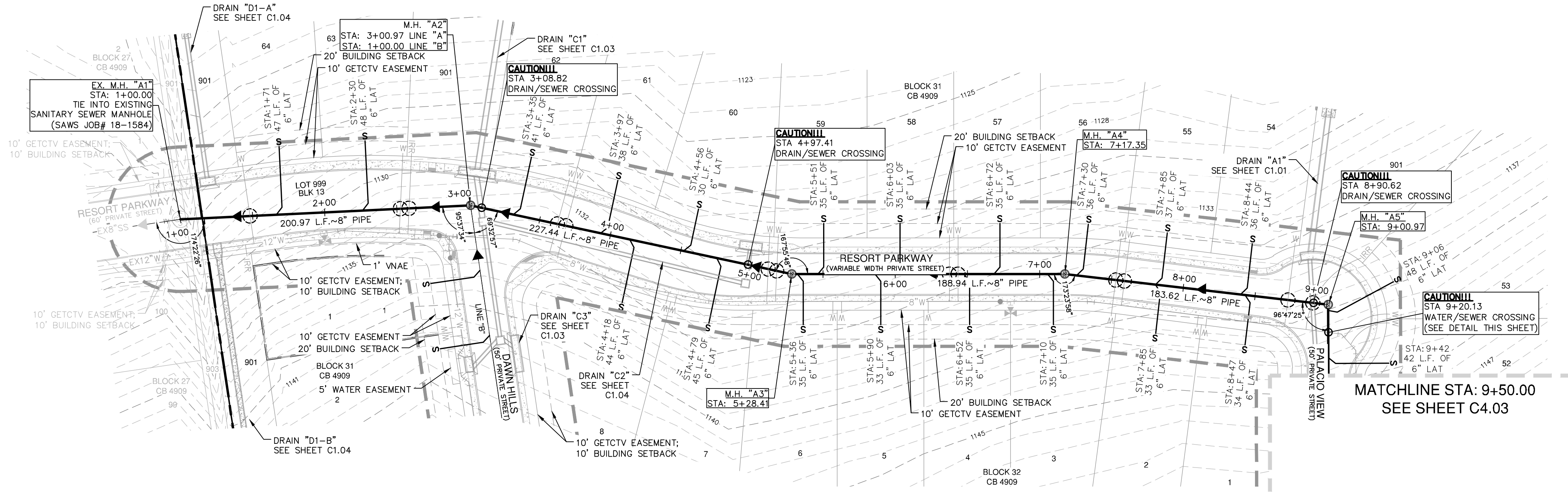
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DEVELOPER'S NAME: TF CIBOLO CANYONS, LP
ADDRESS: 6310 CAPITAL DRIVE, SUITE 130
CITY: LAKEWOOD RANCH STATE: FLORIDA ZIP: 34202
PHONE# 941-388-0707 FAX# N/A
SAWS BLOCK MAP# 186658 TOTAL EDU'S 106 TOTAL ACREAGE 37.16
TOTAL LINEAR FOOTAGE OF PIPE: 4,520 LF - 8" PVC, PLAT NO. 22-11800410
NUMBER OF LOTS 106 SAWS JOB NO. 22-1694

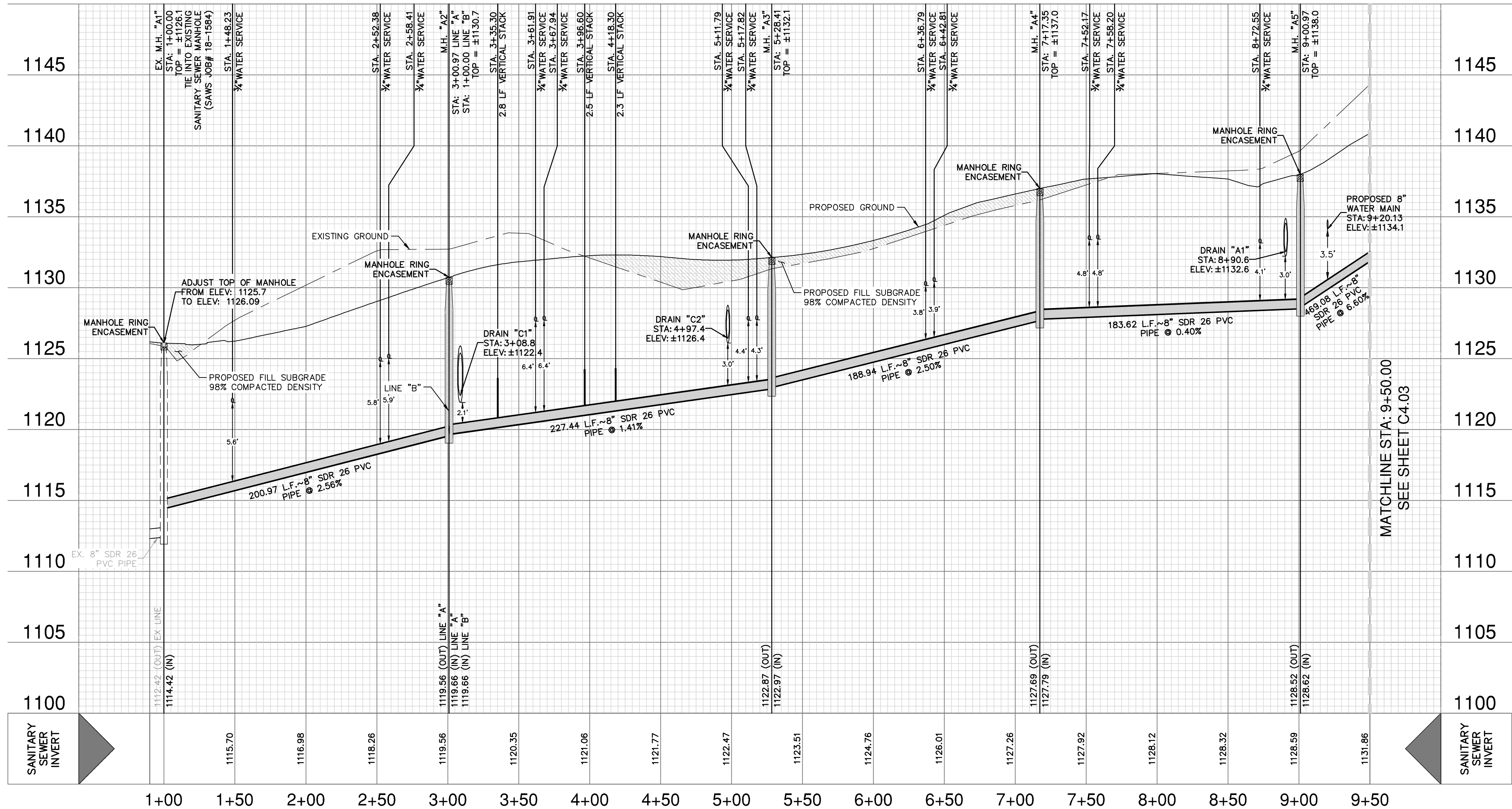
MATCHLINE - SEE SHEET C4.00



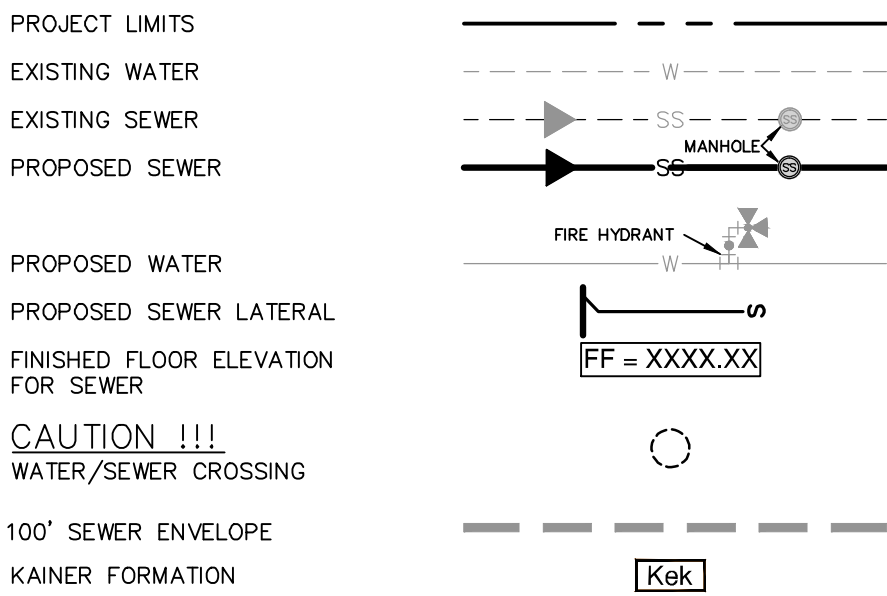


SANITARY SEWER LINE "A"
STA. 1+00.00 TO 9+50.00

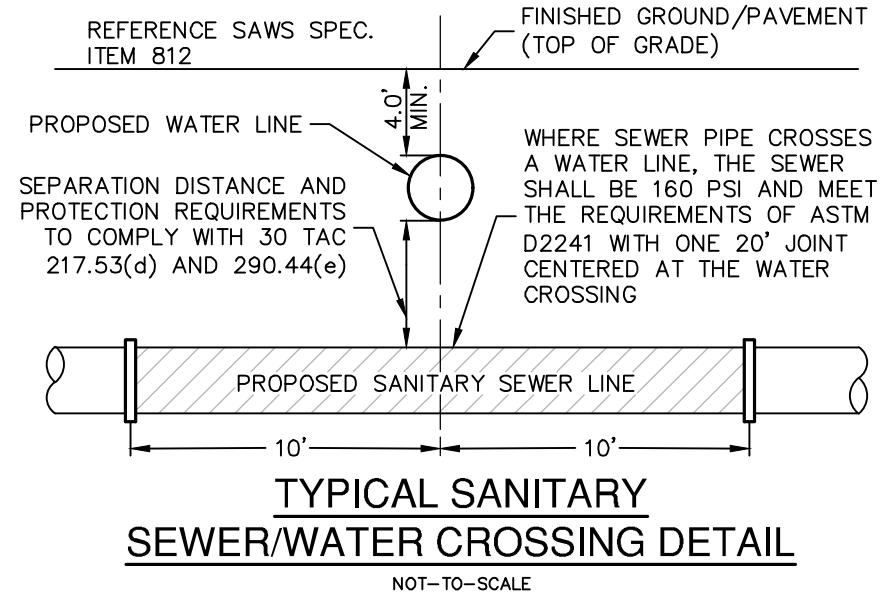
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



SEWER LEGEND



PIPE TYPE DESIGNATIONS
ARE 160 PSI SDR 26 D2241
PRESSURE PIPE (WHITE)
FOR 8" PVC PIPE



PRIVATE STREET DESIGNATION :

LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :

LOT 901, BLOCKS X AND LOT 901 BLOCK X ARE DESIGNATED AS PRIVATE OPEN SPACE, PERMEABLE AND AS A DRAINAGE, SEWER, WATER, GAS, ELECTRIC, TELEPHONE, CABLE TV AND PEDESTRIAN EASEMENT.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS (RR), LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

SEWER: EAST SEWERSHED - DOS RIOS - OVER E.A.R.Z.

DEVELOPER'S NAME: TF CIBOLO CANYONS, LP	
ADDRESS: 6310 CAPITAL DRIVE, SUITE 130	
CITY: LAKEWOOD RANCH	STATE: FLORIDA ZIP: 34202
PHONE# 941-388-0707	FAX# N/A
SAWS BLOCK MAP# 186668 TOTAL EDU'S 106 TOTAL ACREAGE 37.16	
TOTAL LINEAR FOOTAGE OF PIPE: 4,520 LF - 8" PVC PLAT NO. 22-11800410	
NUMBER OF LOTS 106 SAWS JOB NO. 22-1694	

DATE	
NO.	REVISION



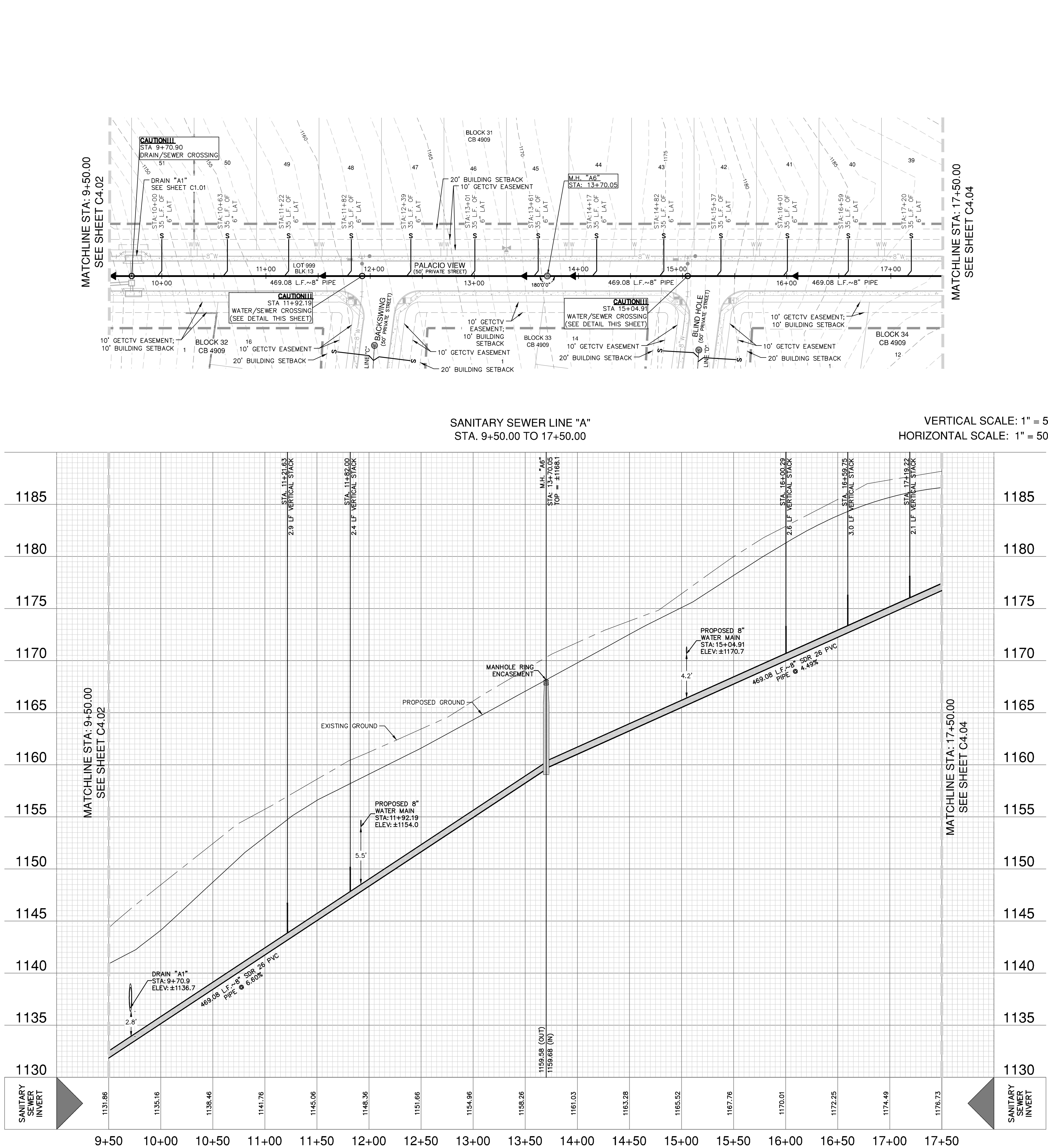
PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
SANITARY SEWER LINE "A" PLAN & PROFILE
STA. 1+00.00 TO 9+50.00

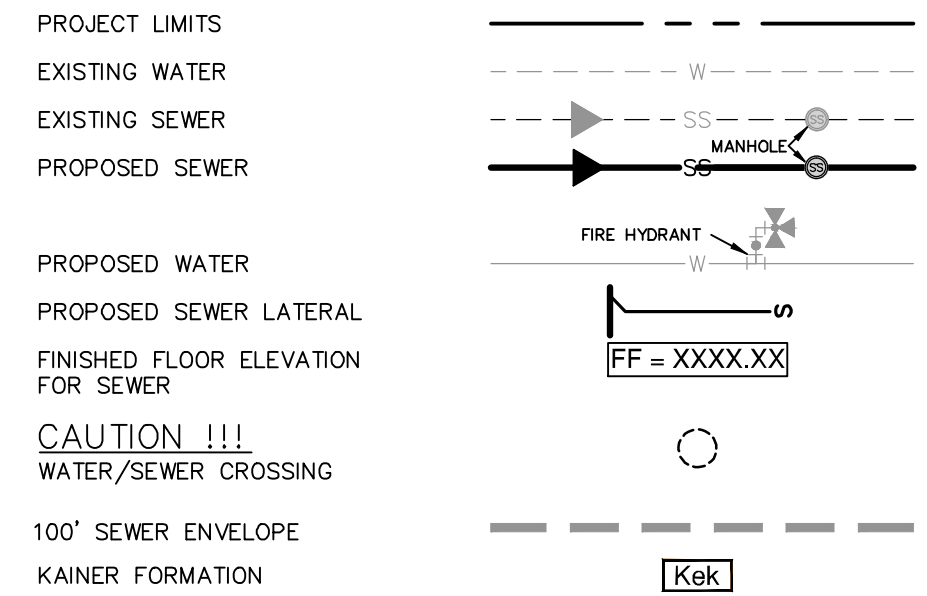
PLAT NO. 22-11800410
JOB NO. 12125-08
DATE JUNE 2023
DESIGNER CB
CHECKED BS DRAWN FP
SHEET C4.02

Date: Jun 09, 2023, 3:57pm User: ID: EFW027
File: P:\12125\08\Design\DWG\SS-LINE & 210508.dwg

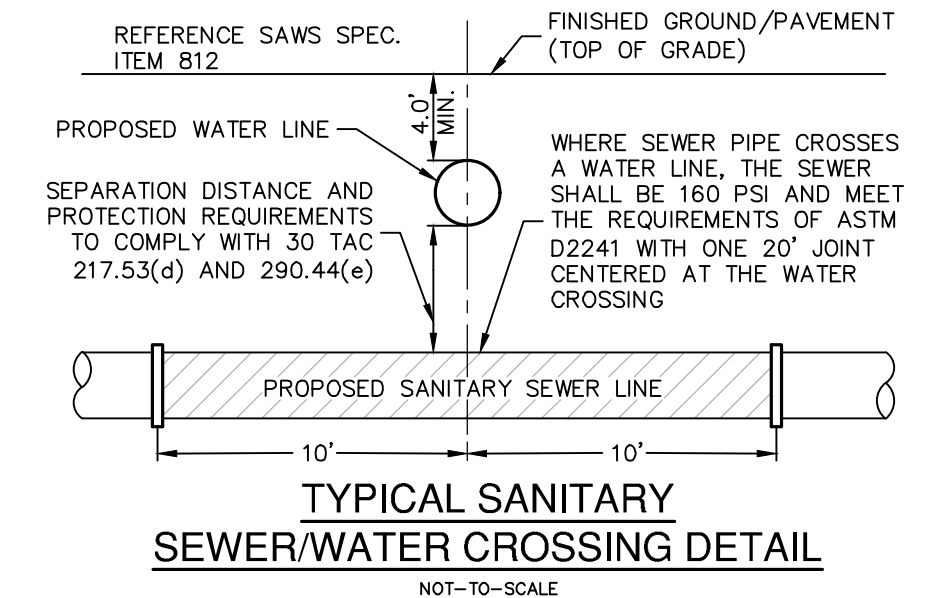
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE/UNLESS OTHERWISE NOTED. Imagery © 2016, CARCOODigital, Google, Texas Orthomography Program, USDA Farm Service Agency.



SEWER LEGEND



PIPE TYPE DESIGNATIONS
ARE 160 PSI SDR 26 D2241
PRESSURE PIPE (WHITE)
FOR 8" PVC PIPE



PRIVATE STREET DESIGNATION :

LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :

LOT 901, BLOCKS X AND LOT 901 BLOCK X ARE DESIGNATED AS PRIVATE OPEN SPACE, PERMEABLE AND AS A DRAINAGE, SEWER, WATER, GAS, ELECTRIC, TELEPHONE, CABLE TV AND PEDESTRIAN EASEMENT.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TEST A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

SEWER: EAST SEWERSHED - DOS RIOS - OVER E.A.R.Z.

DEVELOPER'S NAME: TF CIBOLO CANYONS, LP	
ADDRESS: 6310 CAPITAL DRIVE, SUITE 130	
CITY: LAKEWOOD RANCH	STATE: FLORIDA ZIP: 34202
PHONE# 941-388-0707	FAX# N/A
SAWS BLOCK MAP# 186670 TOTAL EDU'S 106 TOTAL ACREAGE 37.16	
TOTAL LINEAR FOOTAGE OF PIPE: 4,520 LF - 8" PVC PLAT NO. 22-11800410	
NUMBER OF LOTS 106 SAWS JOB NO. 22-1694	

DATE

NO. REVISION

Bruna F. Spengler
6/9/23

PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS

SANITARY SEWER LINE "A" PLAN & PROFILE
STA 9+50.00 TO 17+50.00

PLAT NO. **22-11800410**

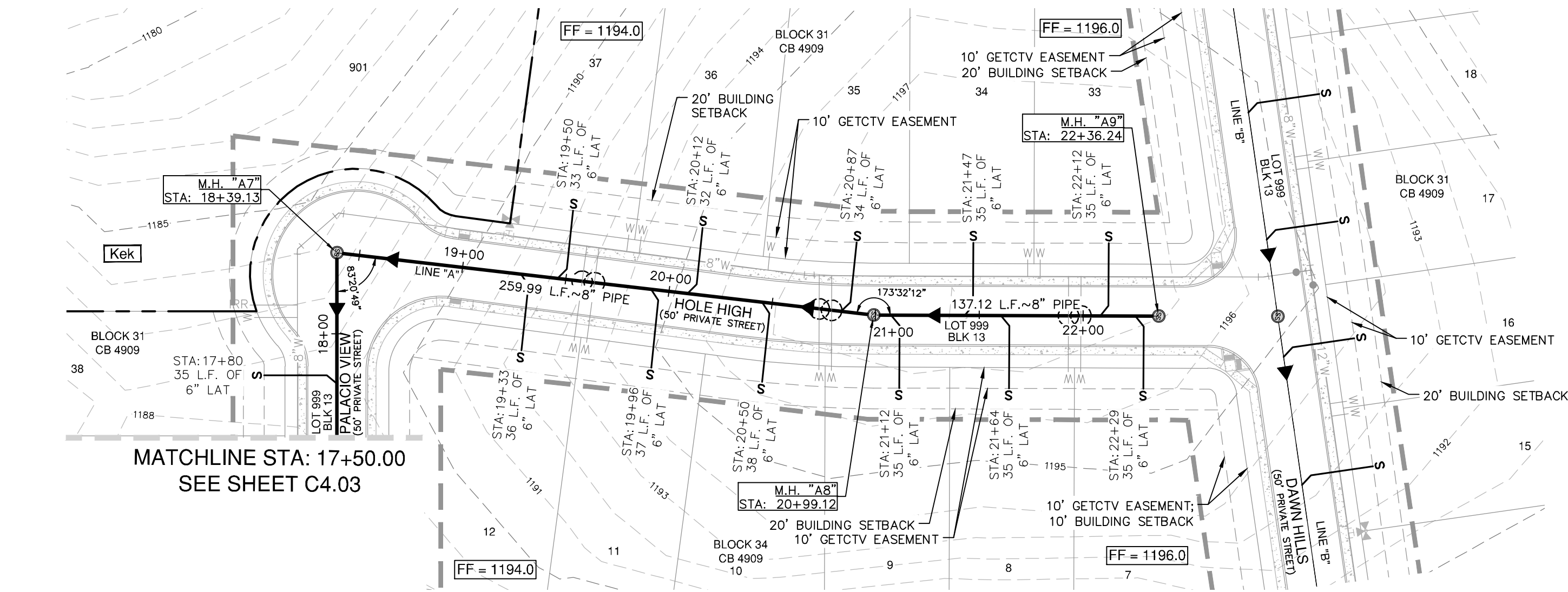
JOB NO. **12125-08**

DATE **JUNE 2023**

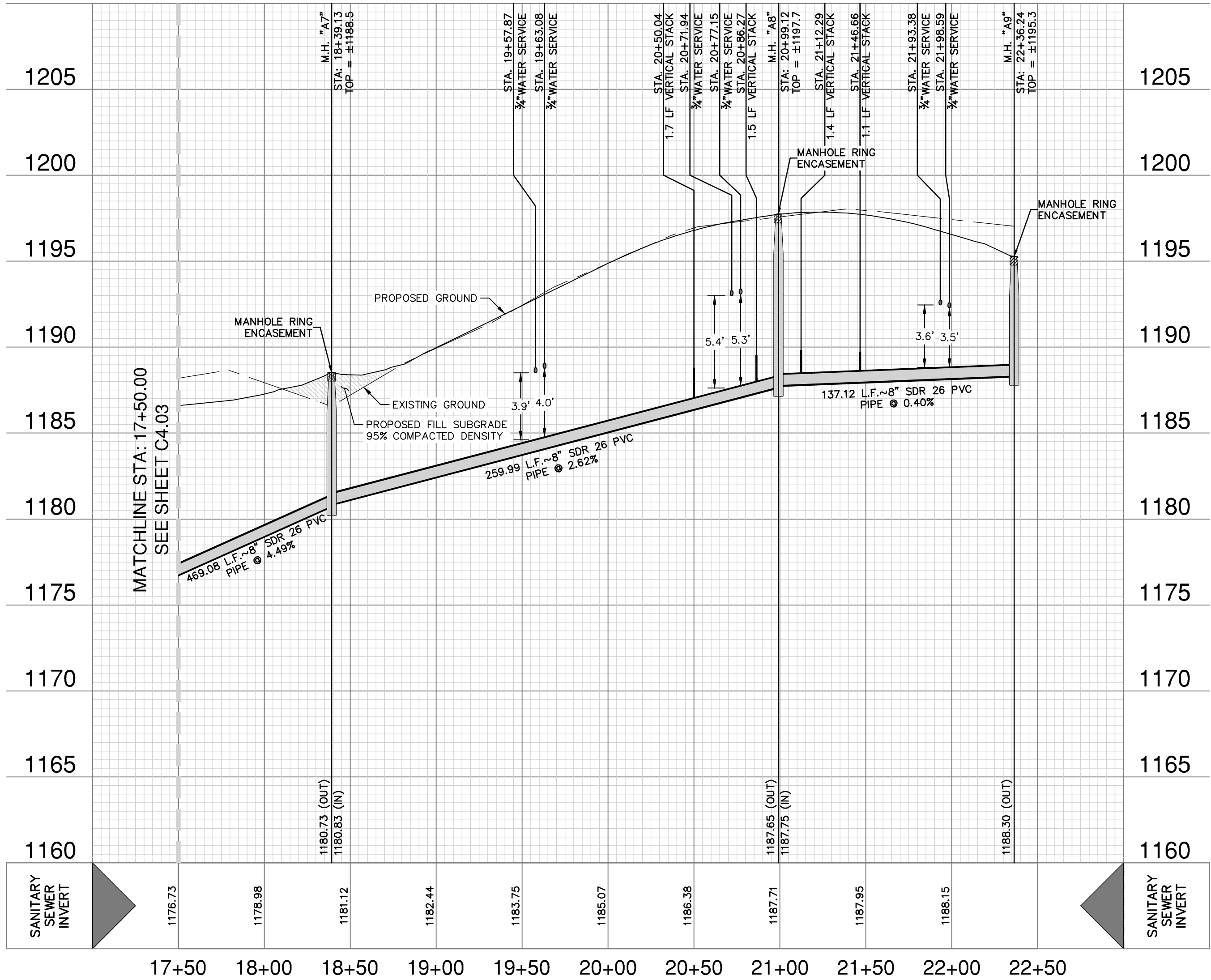
DESIGNER **CB**

CHECKED **BS** DRAWN **FP**

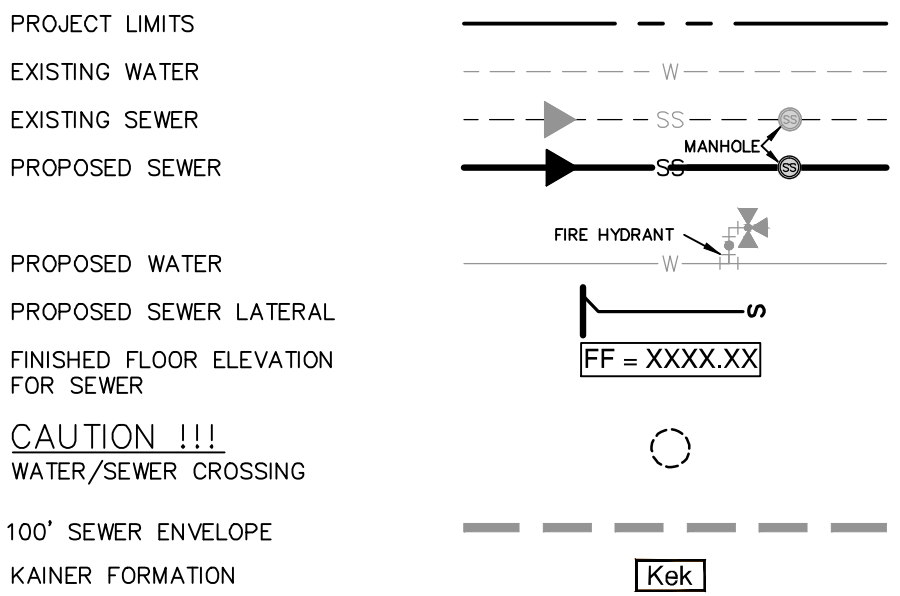
SHEET **C4.03**



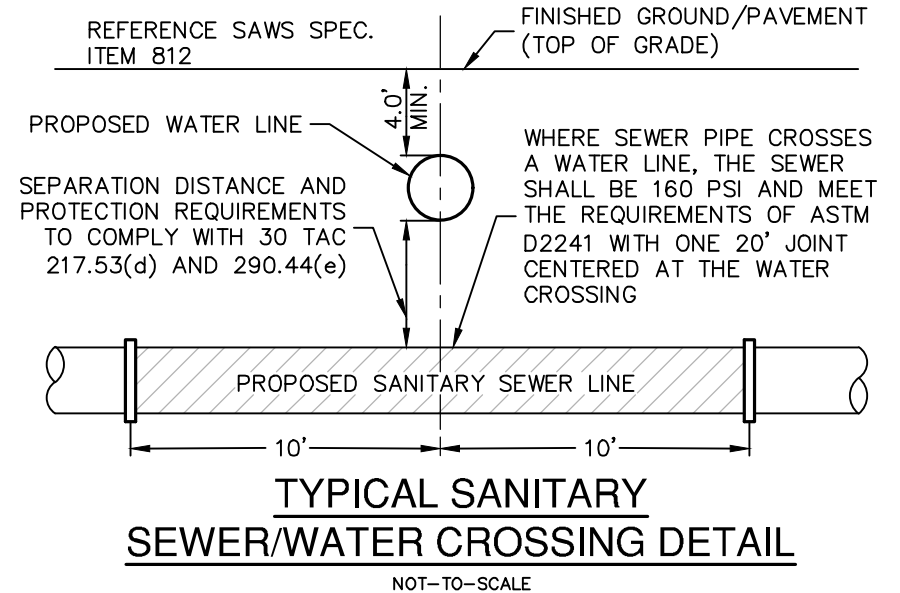
SANITARY SEWER LINE "A"
STA. 17+50.00 TO END
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



SEWER LEGEND



PIPE TYPE DESIGNATIONS
ARE 160 PSI SDR 26 D2241
PRESSURE PIPE (WHITE)
FOR 8" PVC PIPE



PRIVATE STREET DESIGNATION :
LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :
LOT 901, BLOCKS X AND LOT 901 BLOCK X ARE DESIGNATED AS PRIVATE OPEN SPACE, PERMEABLE AND AS A DRAINAGE, SEWER, WATER, GAS, ELECTRIC, TELEPHONE, CABLE TV AND PEDESTRIAN EASEMENT.

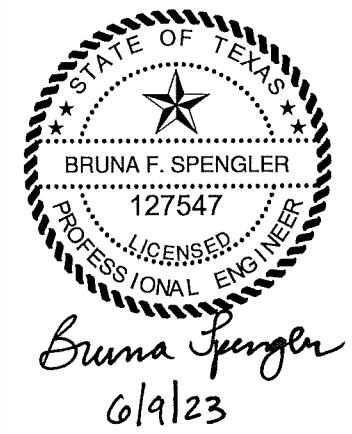
TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TEST A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

SEWER: EAST SEWERSHED - DOS RIOS - OVER E.A.R.Z.

DEVELOPER'S NAME: JF CIBOLO CANYONS, LP			
ADDRESS: 6310 CAPITAL DRIVE, SUITE 130			
CITY: LAKEWOOD RANCH	STATE: FLORIDA	ZIP: 34202	
PHONE# 941-388-0707	FAX# N/A		
SAWS BLOCK MAP# 186660 TOTAL EDU'S 106 TOTAL ACREAGE 37.16			
TOTAL LINEAR FOOTAGE OF PIPE: 4,520 LF - 8" PVC PLAT NO. 22-11800410			
NUMBER OF LOTS 106 SAWS JOB NO. 22-1694			

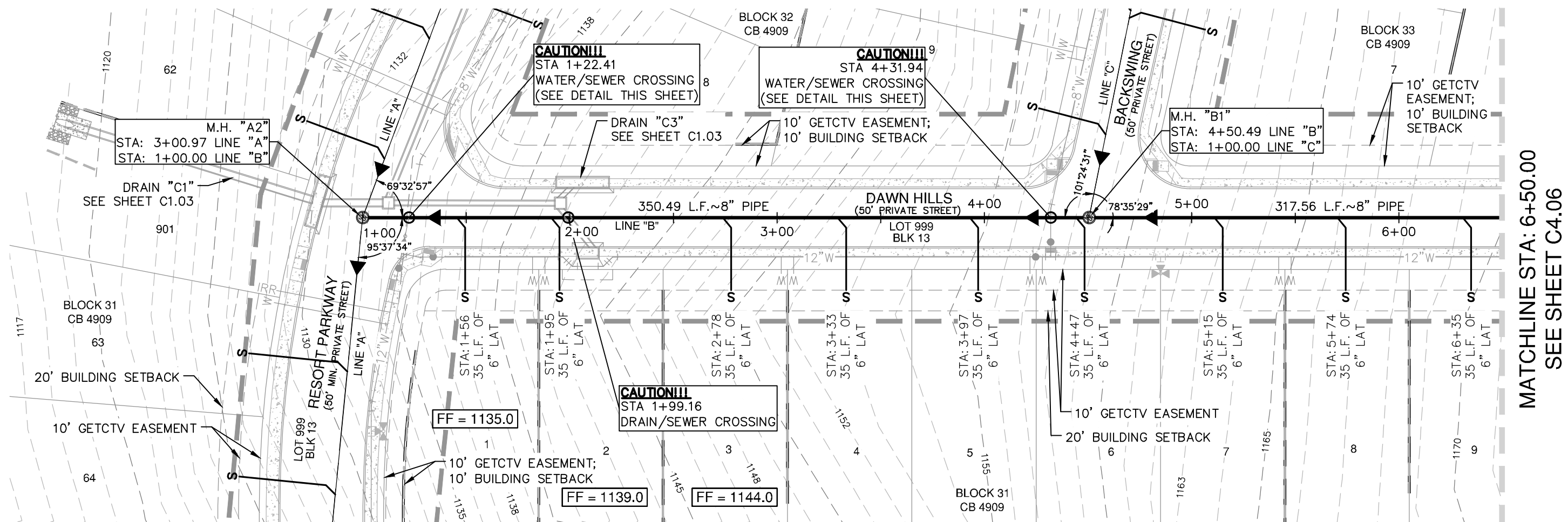
NO.	REVISION	DATE



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

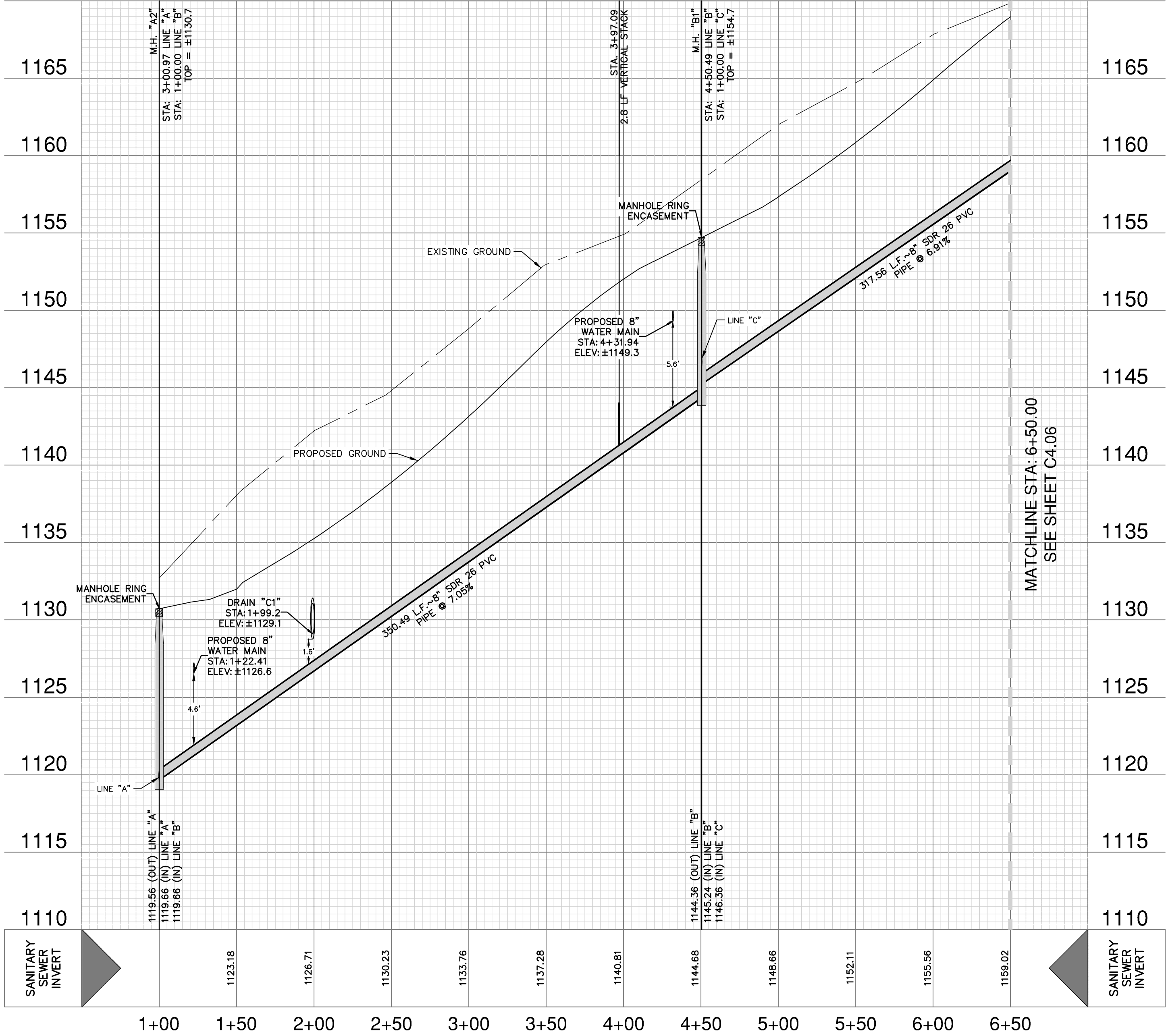
CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
SANITARY SEWER LINE "A" PLAN & PROFILE
STA. 17+50.00 TO END

PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	JUNE 2023
DESIGNER	CB
CHECKED	BS DRAWN
FP	
SHEET	C4.04

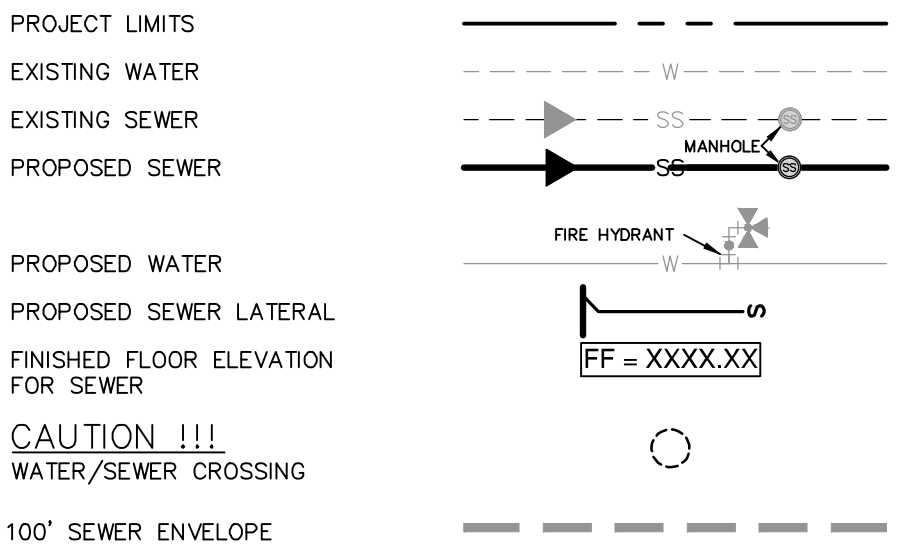


SANITARY SEWER LINE "B"
STA. 1+00.00 TO 6+50.00

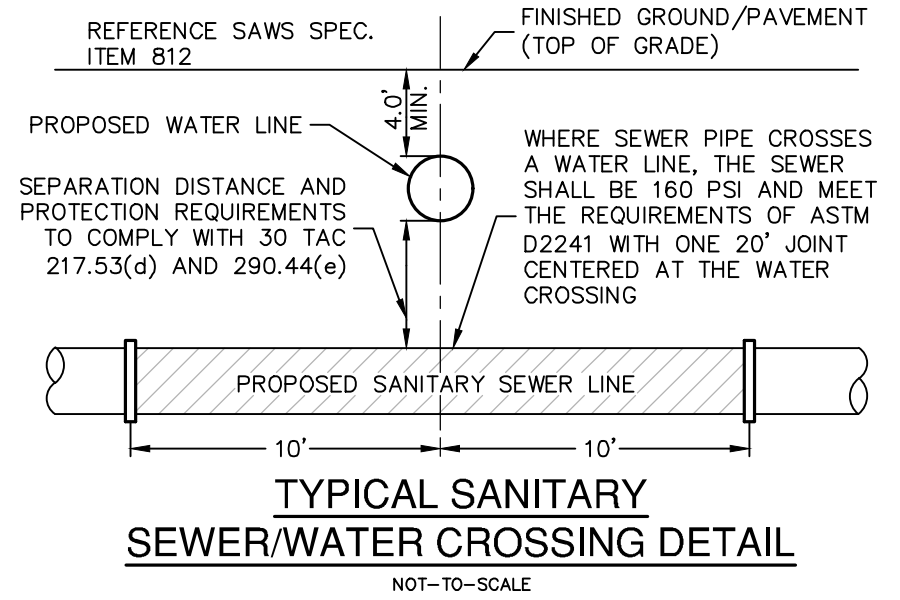
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



SEWER LEGEND



PIPE TYPE DESIGNATIONS
ARE 160 PSI SDR 26 D2241
PRESSURE PIPE (WHITE)
FOR 8" PVC PIPE



PRIVATE STREET DESIGNATION :
LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :
LOT 901, BLOCKS X AND LOT 901 BLOCK X ARE DESIGNATED AS PRIVATE OPEN SPACE, PERMEABLE AND AS A DRAINAGE, SEWER, WATER, GAS, ELECTRIC, TELEPHONE, CABLE TV AND PEDESTRIAN EASEMENT.

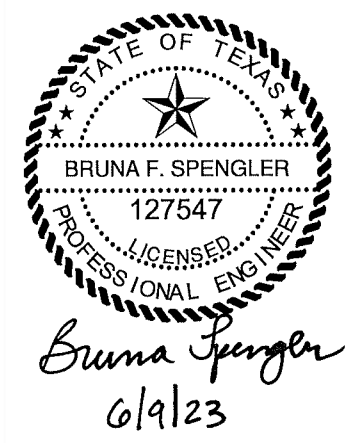
TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTS/IRRI, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TEST A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

SEWER: EAST SEWERSHED - DOS RIOS - OVER E.A.R.Z.

DEVELOPER'S NAME:	TF CIBOLO CANYONS, LP
ADDRESS:	6310 CAPITAL DRIVE, SUITE 130
CITY:	LAKEWOOD RANCH
STATE:	FLORIDA
ZIP:	34202
PHONE#	941-388-0707
FAX#	N/A
SAWS BLOCK MAP#	186670
TOTAL EDU'S	106
TOTAL ACREAGE	37.16
TOTAL LINEAR FOOTAGE OF PIPE	4,520 LF - 8" PVC
PLAT NO.	22-11800410
NUMBER OF LOTS	106
SAWS JOB NO.	22-1694

DATE	
NO.	
REVISION	



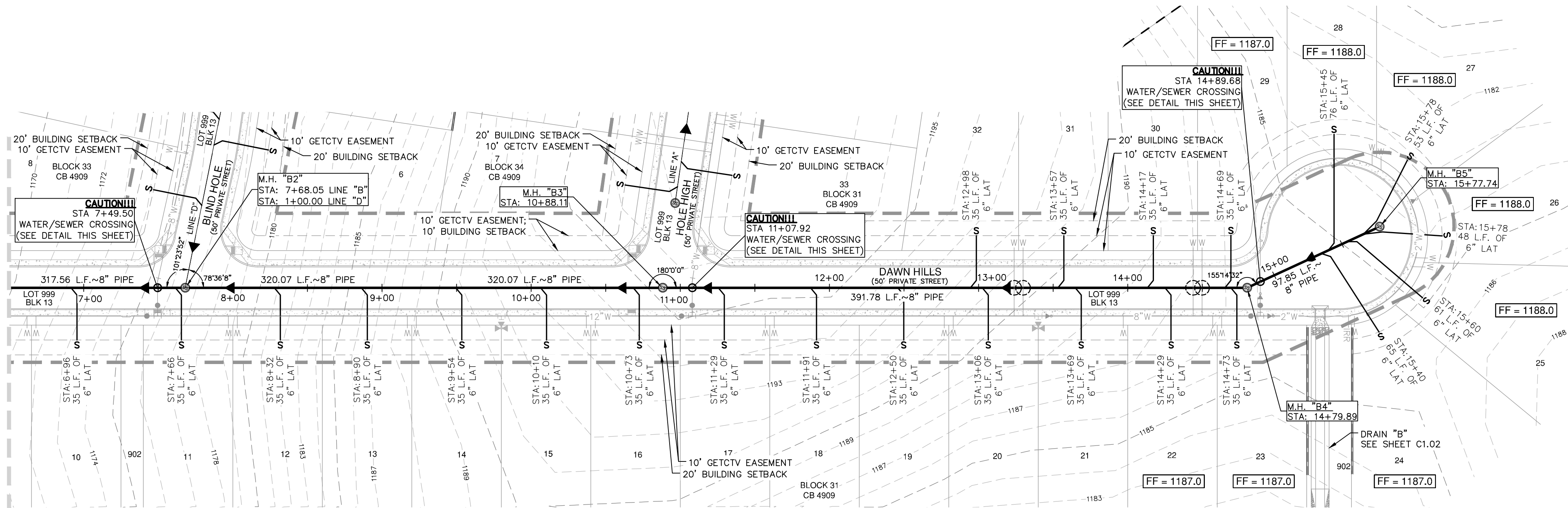
PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #10028600

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS

SANITARY SEWER LINE "B" PLAN & PROFILE
STA. 1+00.00 TO 6+50.00

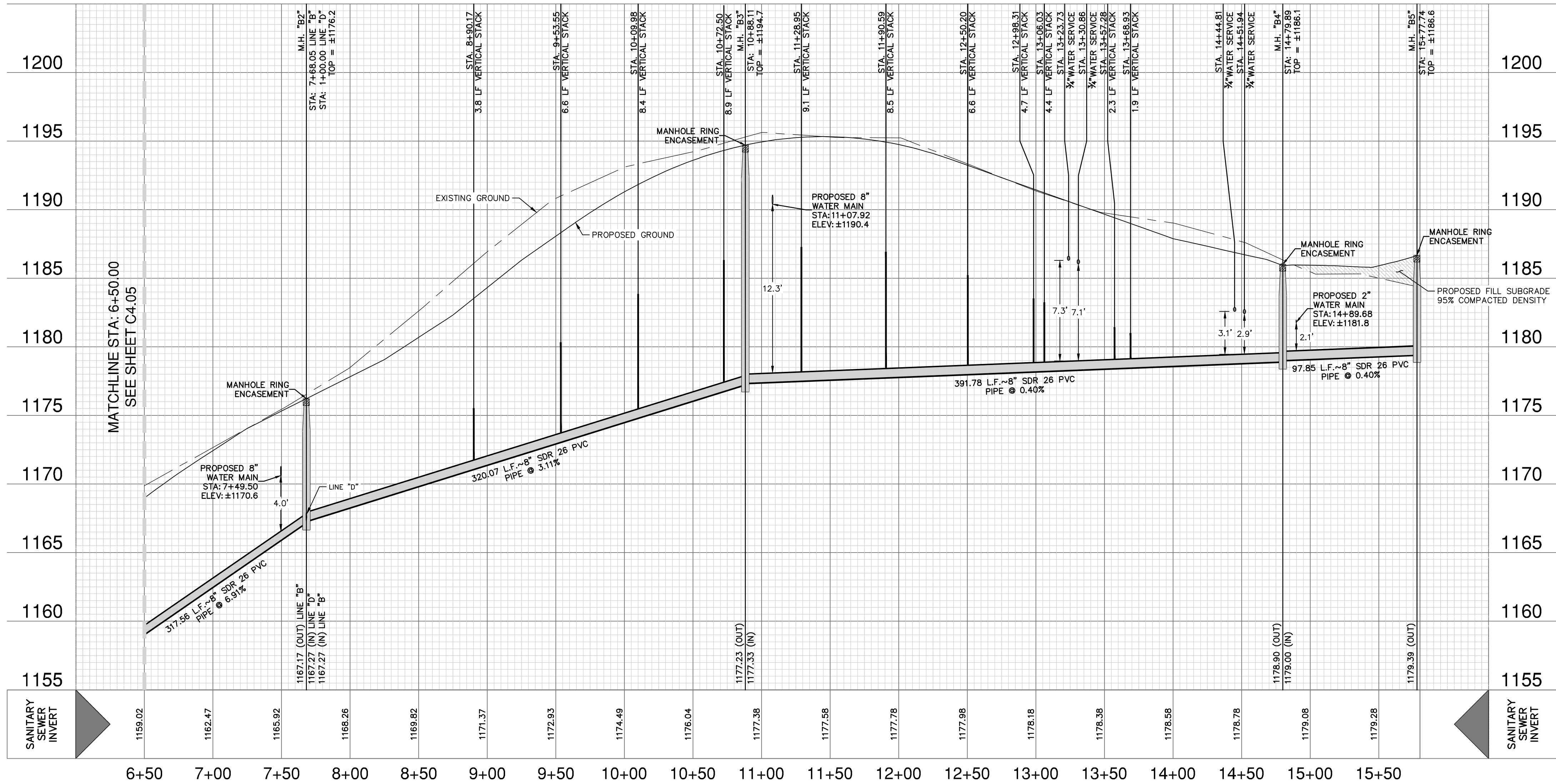
PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	JUNE 2023
DESIGNER	CB
CHECKED	BS
DRAWN	FP
SHEET	C4.05

MATCHLINE STA: 6+50.00
SEE SHEET C4.05

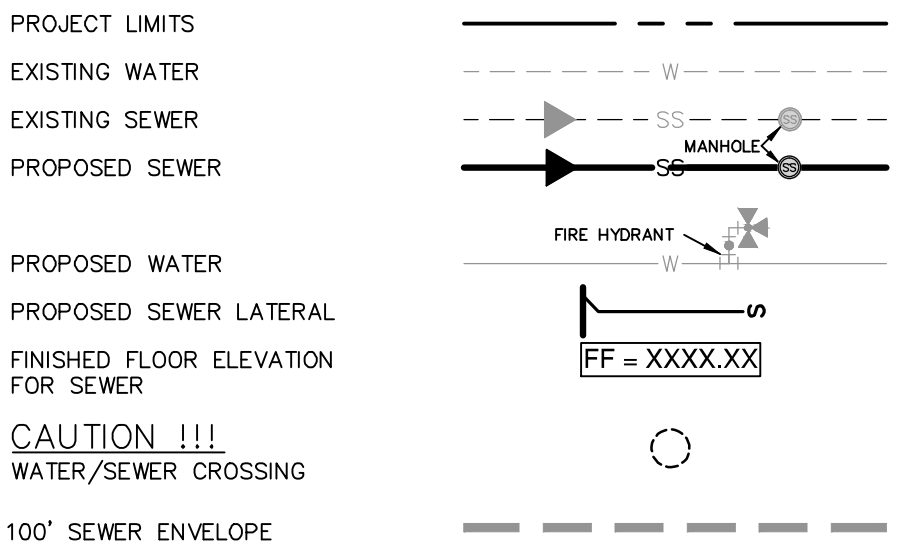


SANITARY SEWER LINE "B"
STA. 6+50.00 TO END

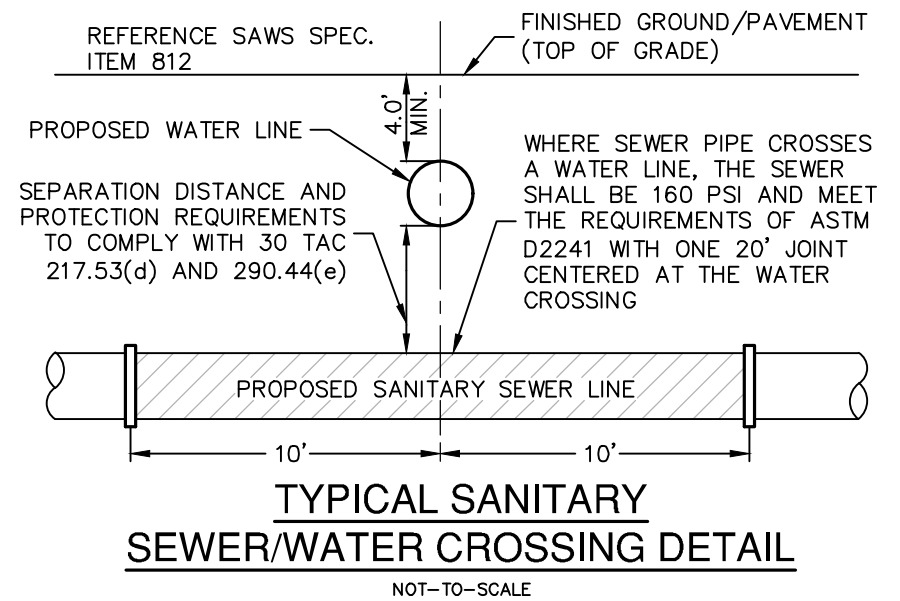
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



SEWER LEGEND



PIPE TYPE DESIGNATIONS
ARE 160 PSI SDR 26 D2241
PRESSURE PIPE (WHITE)
FOR 8" PVC PIPE



PRIVATE STREET DESIGNATION :

LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :

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TRENCH EXCAVATION SAFETY PROTECTION:

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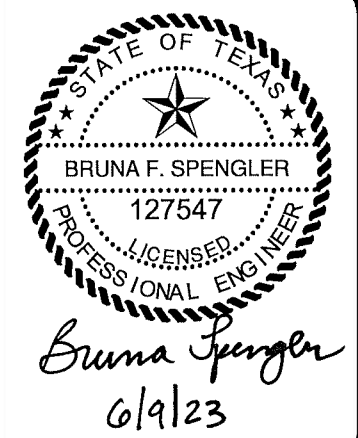
CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TEST A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

SEWER: EAST SEWERSHED - DOS RIOS - OVER E.A.R.Z.

DEVELOPER'S NAME: JF CIBOLO CANYONS, LP	
ADDRESS: 6310 CAPITAL DRIVE, SUITE 130	
CITY: LAKEWOOD RANCH	STATE: FLORIDA ZIP: 34202
PHONE# 941-388-0707	FAX# N/A
SAWS BLOCK MAP# 186660 TOTAL EDU'S 106 TOTAL ACREAGE 37.16	
TOTAL LINEAR FOOTAGE OF PIPE: 4,520 LF - 8" PVC PLAT NO. 22-11800410	
NUMBER OF LOTS 106	SAWS JOB NO. 22-1694

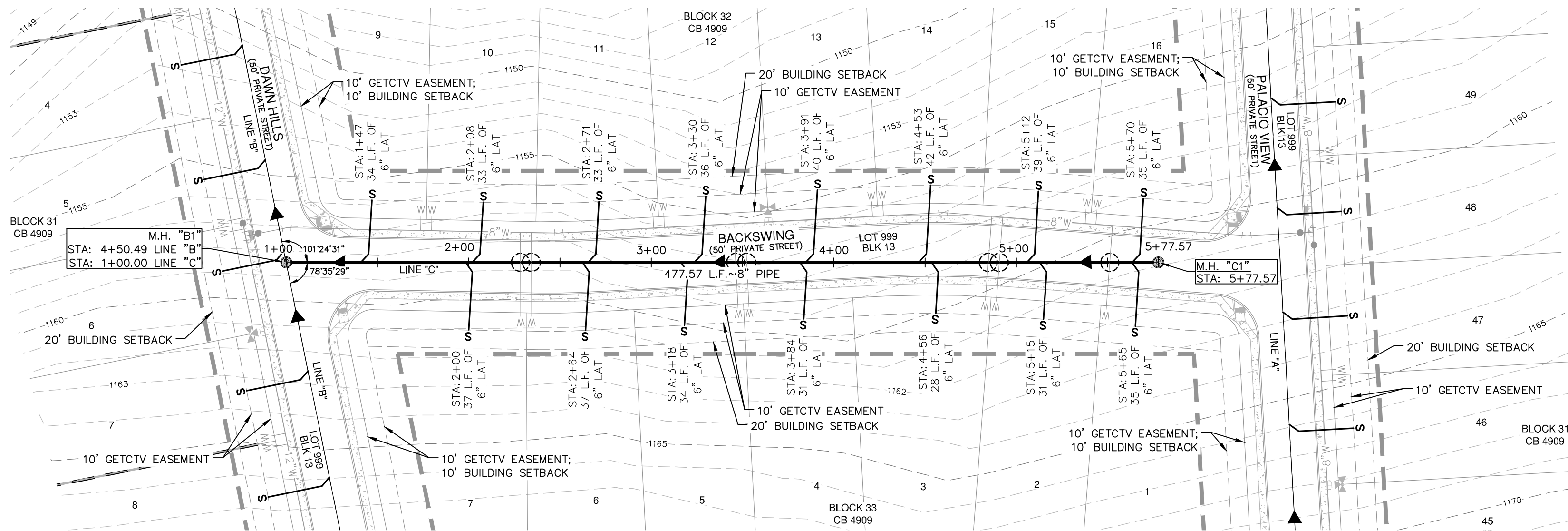
NO. REVISION		DATE



PAPE-DAWSON
ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

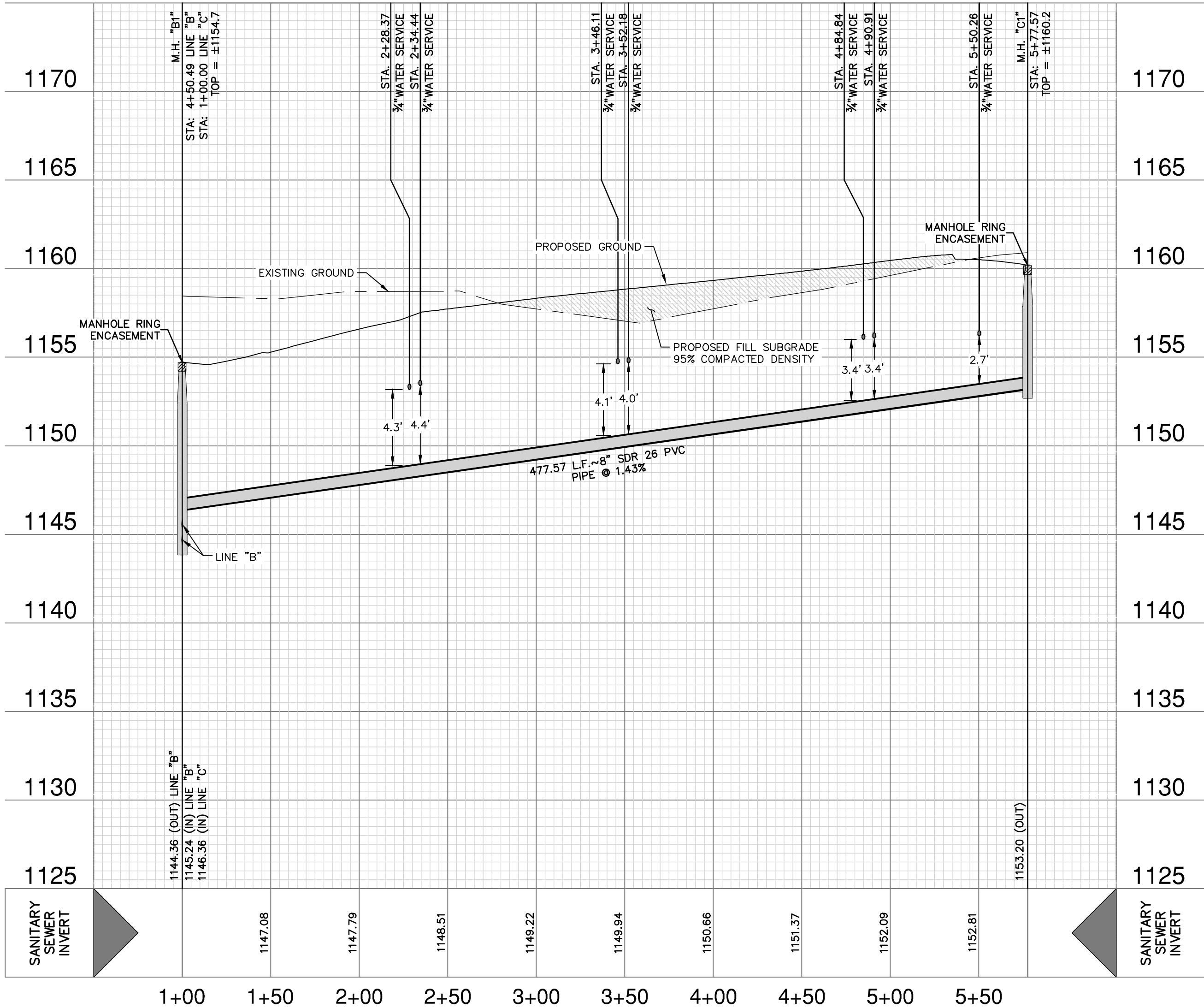
CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
SANITARY SEWER LINE "B" PLAN & PROFILE
STA. 6+50.00 TO END

PLAT NO. 22-11800410
JOB NO. 12125-08
DATE JUNE 2023
DESIGNER CB
CHECKED BS DRAWN FP
SHEET C4.06

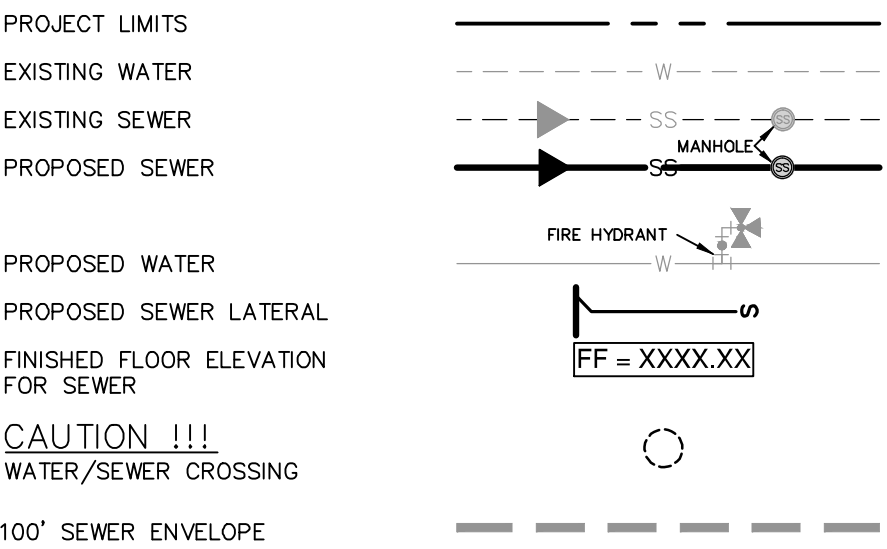


SANITARY SEWER LINE "C"
STA. 1+00.00 TO END

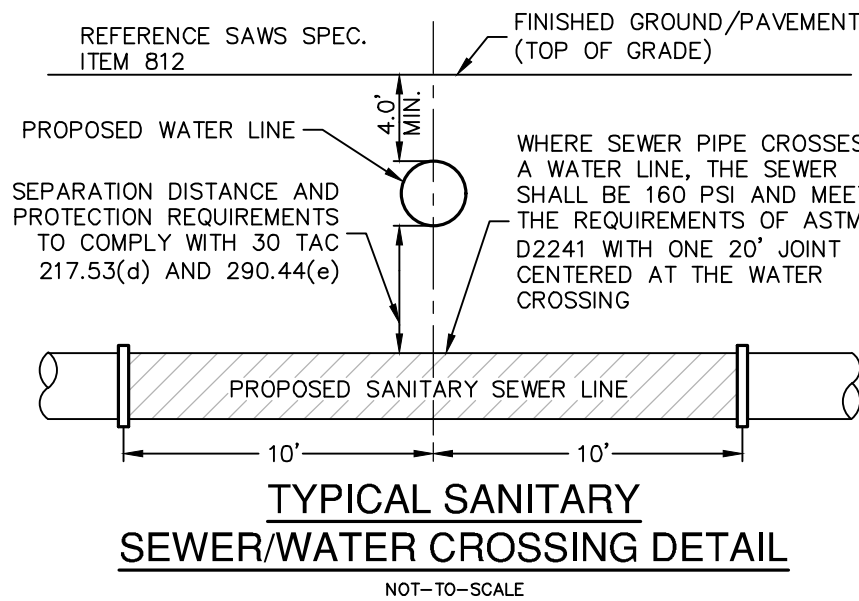
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



SEWER LEGEND



PIPE TYPE DESIGNATIONS
ARE 160 PSI SDR 26 D2241
PRESSURE PIPE (WHITE)
FOR 8" PVC PIPE



PRIVATE STREET DESIGNATION :
LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :
LOT 901, BLOCKS X AND LOT 901 BLOCK X ARE DESIGNATED AS PRIVATE OPEN SPACE, PERMEABLE AND AS A DRAINAGE, SEWER, WATER, GAS, ELECTRIC, TELEPHONE, CABLE TV AND PEDESTRIAN EASEMENT.

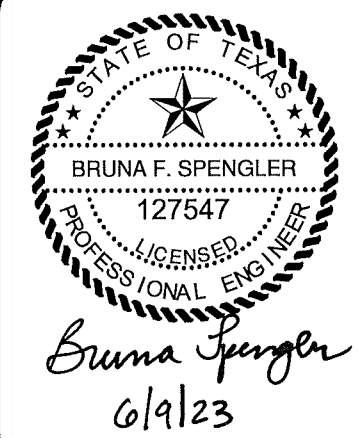
TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBARR, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TEST A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

SEWER: EAST SEWERSHED - DOS RIOS - OVER E.A.R.Z.

DEVELOPER'S NAME: <u>TF CIBOLO CANYONS, LP</u>	
ADDRESS: <u>6310 CAPITAL DRIVE, SUITE 130</u>	
CITY: <u>LAKEWOOD RANCH</u>	STATE: <u>FLORIDA</u> ZIP: <u>34202</u>
PHONE# <u>941-388-0707</u>	FAX# <u>N/A</u>
SAWS BLOCK MAP# <u>186670</u> TOTAL EDU'S <u>106</u> TOTAL ACREAGE <u>37.16</u>	
TOTAL LINEAR FOOTAGE OF PIPE: <u>4,520 LF - 8" PVC</u> PLAT NO. <u>22-11800410</u>	
NUMBER OF LOTS <u>106</u>	SAWS JOB NO. <u>22-1694</u>

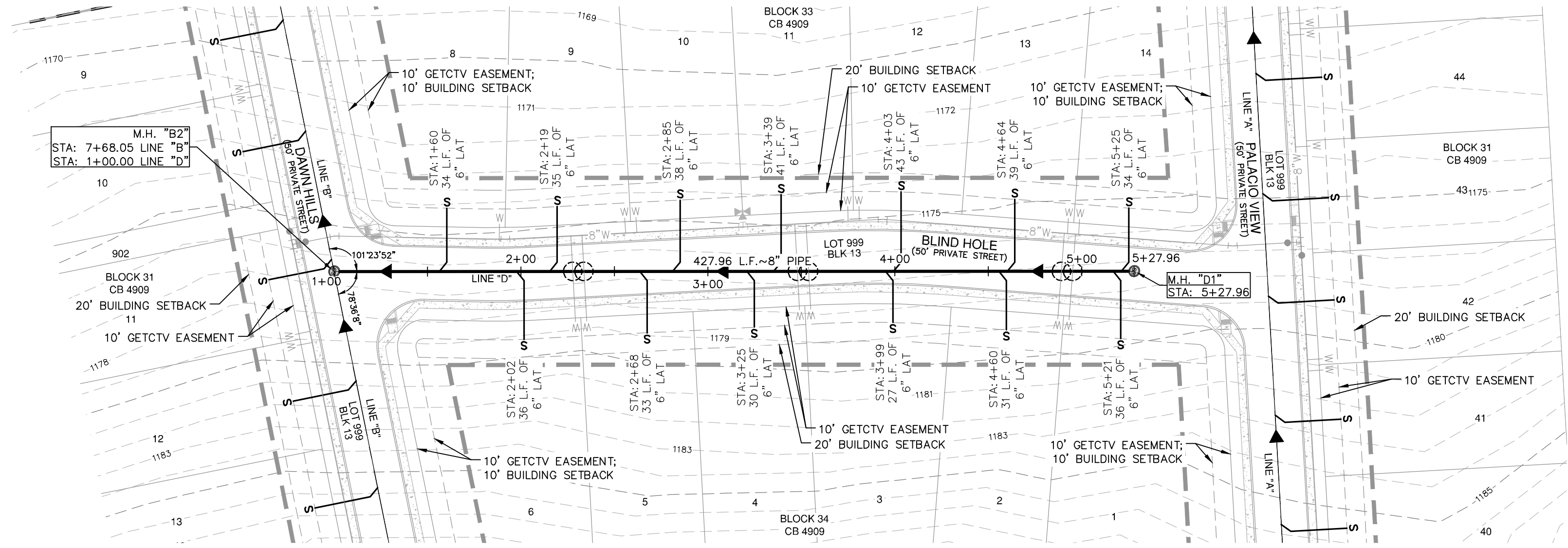
NO.	REVISION	DATE



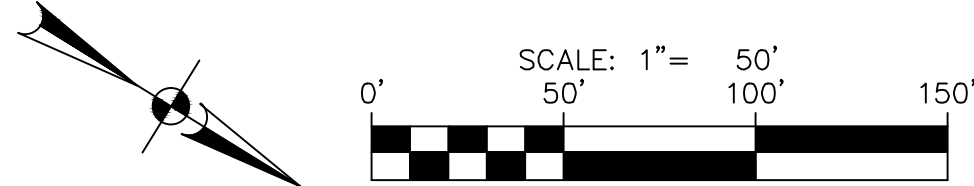
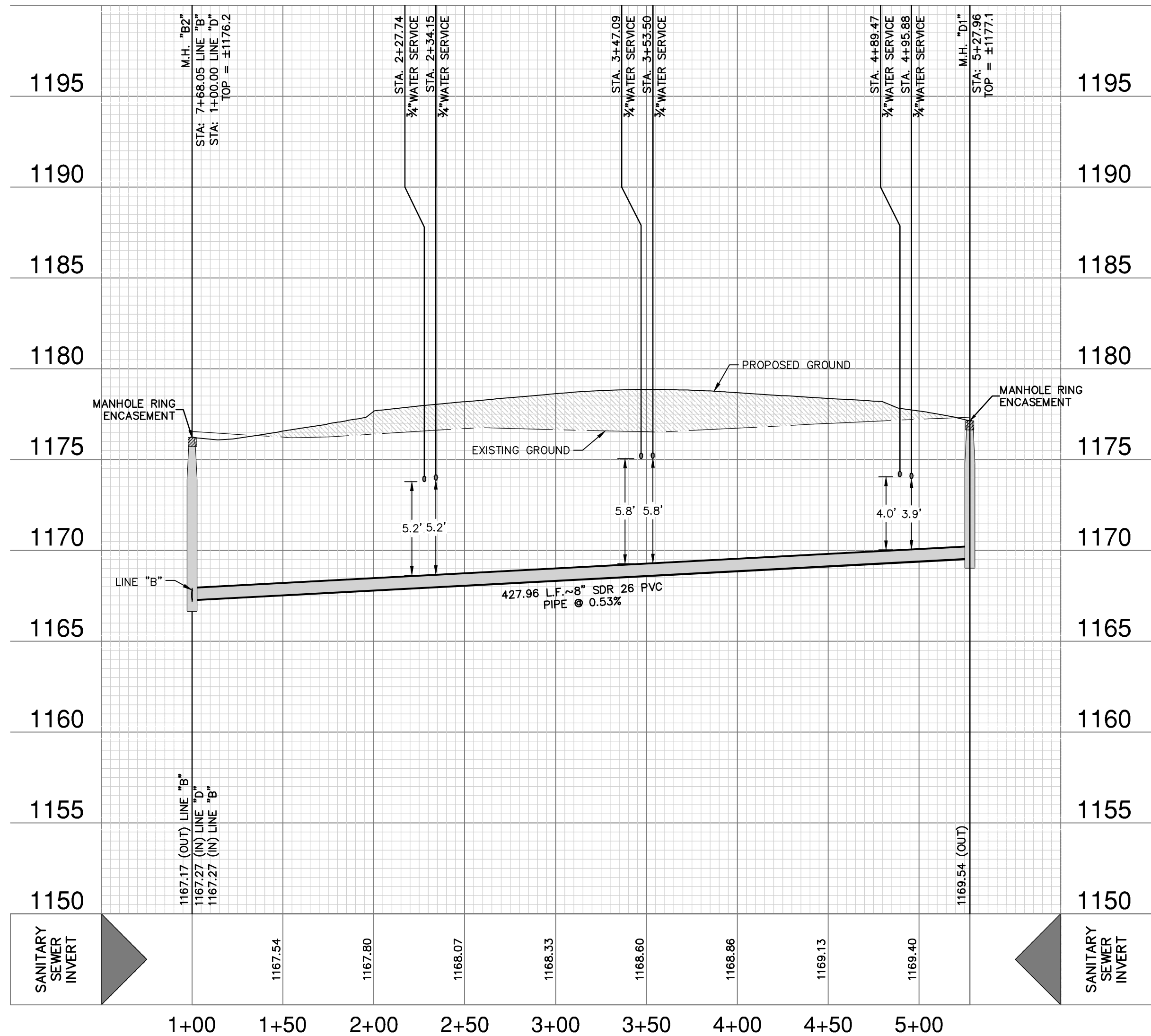
PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
SANITARY SEWER LINE "C" PLAN & PROFILE
STA. 1+00.00 TO END

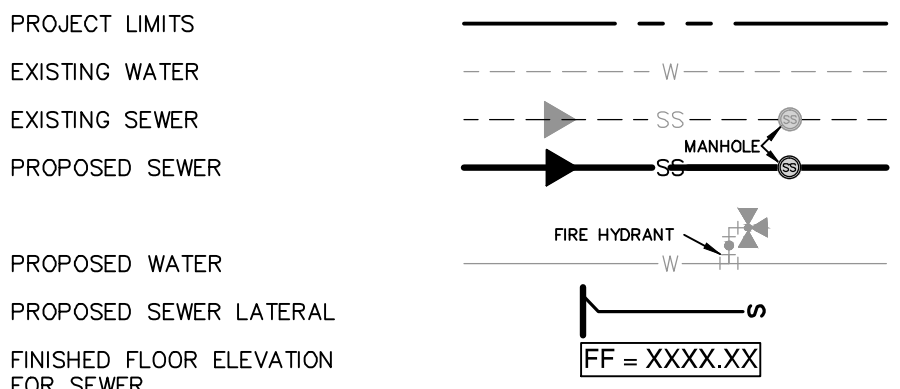
PLAT NO. <u>22-11800410</u>
JOB NO. <u>12125-08</u>
DATE <u>JUNE 2023</u>
DESIGNER <u>CB</u>
CHECKED <u>BS</u> DRAWN <u>FP</u>
SHEET <u>C4.07</u>



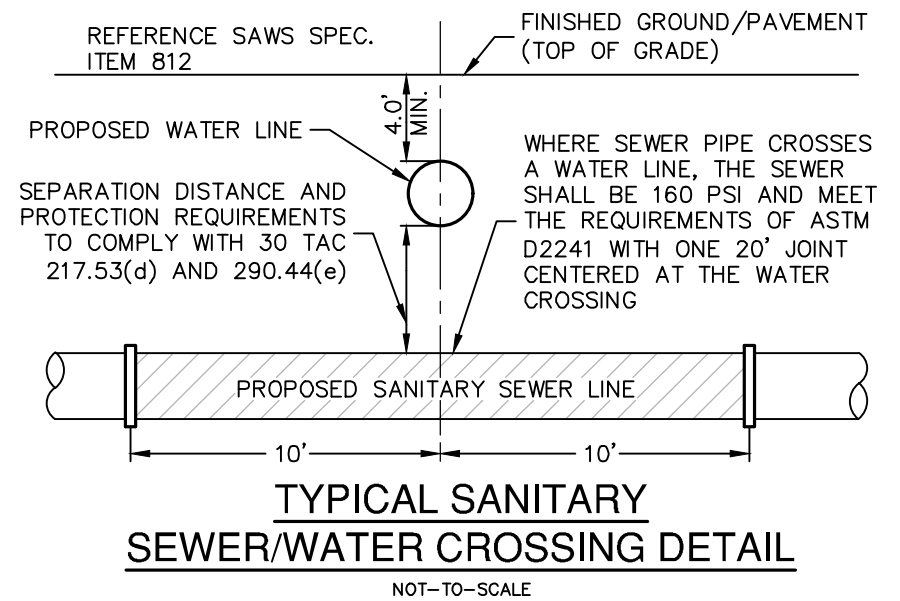
SANITARY SEWER LINE "D"
STA. 1+00.00 TO END
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



SEWER LEGEND



PIPE TYPE DESIGNATIONS
ARE 160 PSI SDR 26 D2241
PRESSURE PIPE (WHITE)
FOR 8" PVC PIPE



PRIVATE STREET DESIGNATION :

LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :

LOT 901, BLOCKS X AND LOT 901 BLOCK X ARE DESIGNATED AS PRIVATE OPEN SPACE, PERMEABLE AND AS A DRAINAGE, SEWER, WATER, GAS, ELECTRIC, TELEPHONE, CABLE TV AND PEDESTRIAN EASEMENT.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

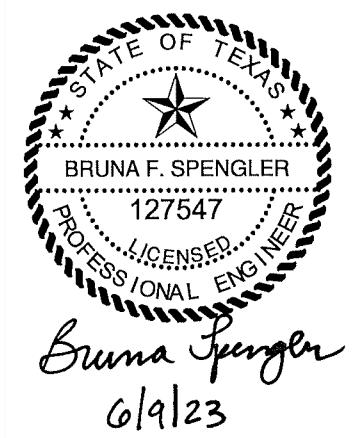
CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

SEWER: EAST SEWERSHED - DOS RIOS - OVER E.A.R.Z.

DEVELOPER'S NAME:	JF CIBOLO CANYONS, LP
ADDRESS:	6310 CAPITAL DRIVE, SUITE 130
CITY:	LAKEWOOD RANCH
STATE:	FLORIDA
ZIP:	34202
PHONE#	941-388-0707
FAX#	N/A
SAWS BLOCK MAP#	186670
TOTAL EDU'S	106
TOTAL ACREAGE	37.16
TOTAL LINEAR FOOTAGE OF PIPE	4,520 LF - 8" PVC
PLAT NO.	22-11800410
NUMBER OF LOTS	106
SAWS JOB NO.	22-1694

NO.	REVISION	DATE



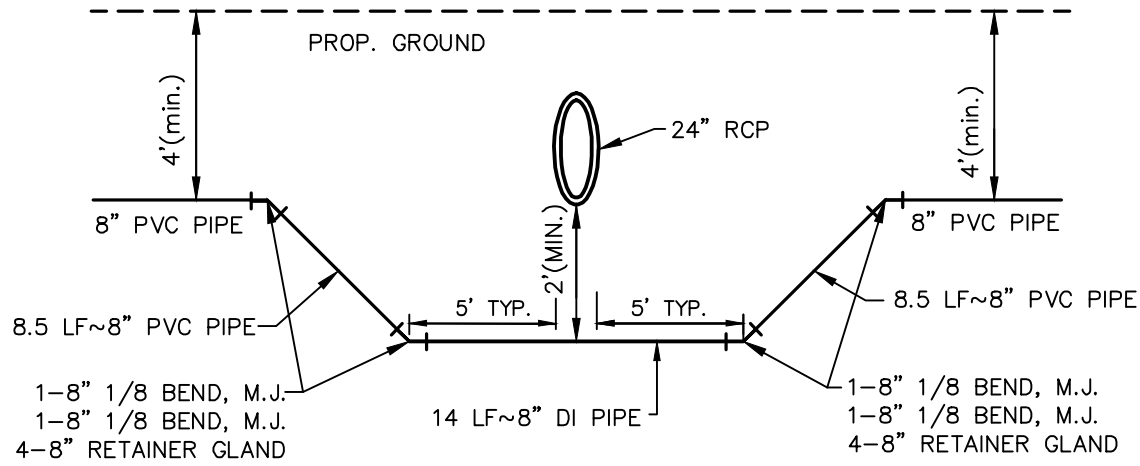
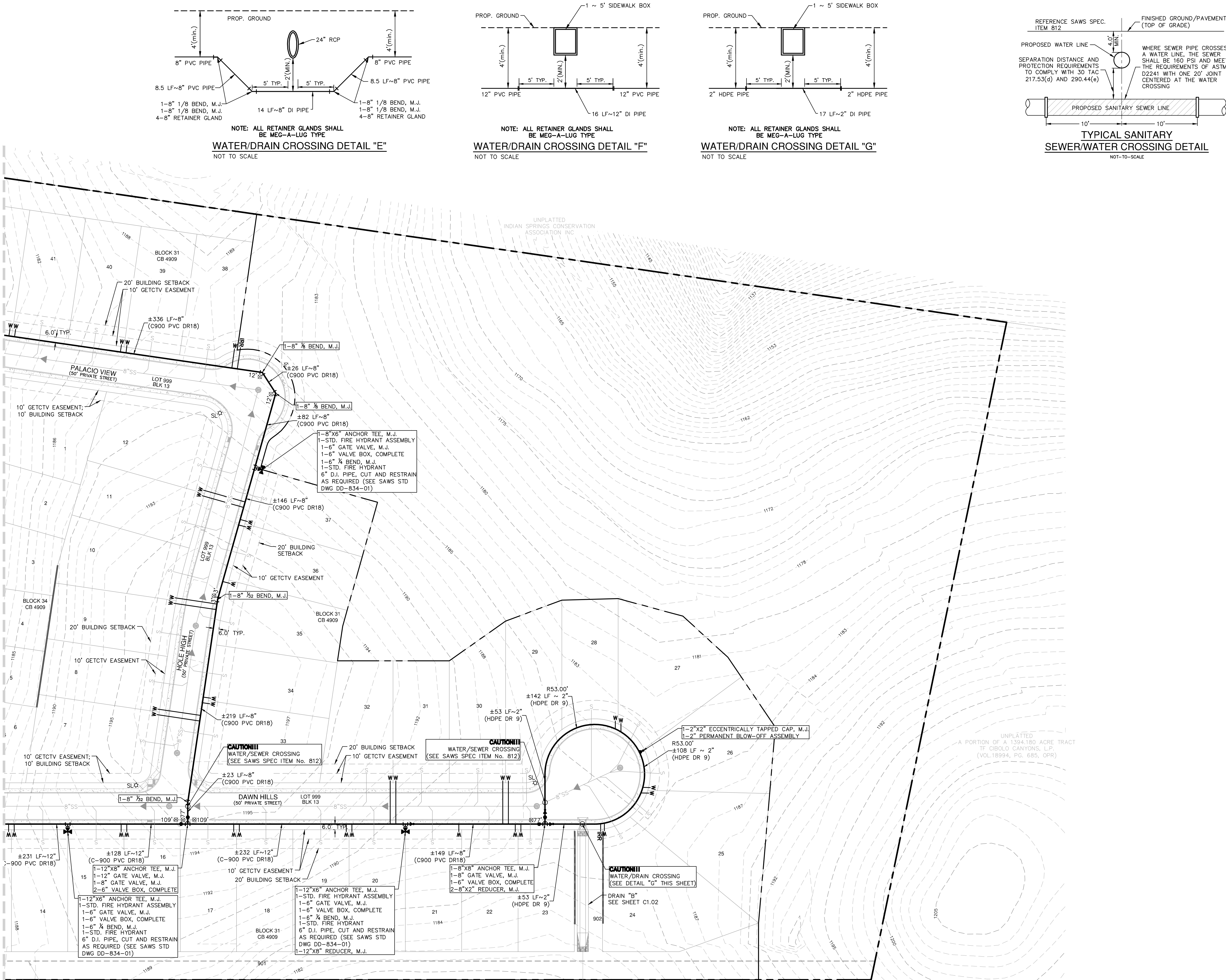
PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
SANITARY SEWER LINE "D" PLAN & PROFILE
STA. 1+00.00 TO END

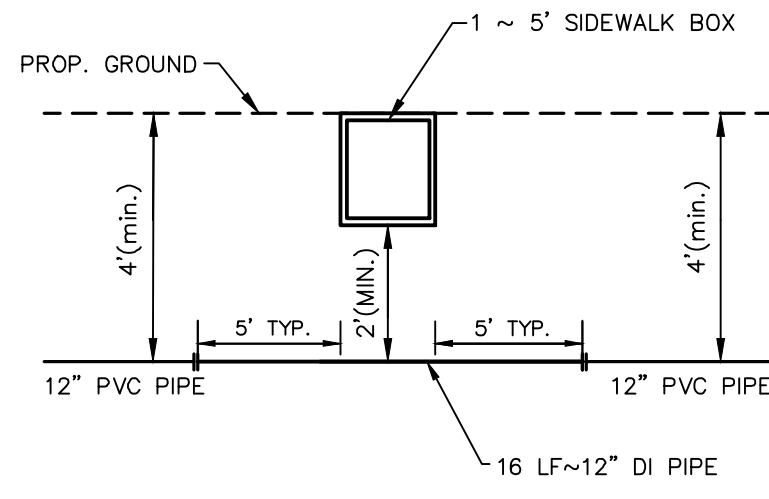
PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	JUNE 2023
DESIGNER	CB
CHECKED	BS
DRAWN	FP
SHEET	C4.08

Dates: Jun 09, 2023, 4:00pm User: ID: EFW02
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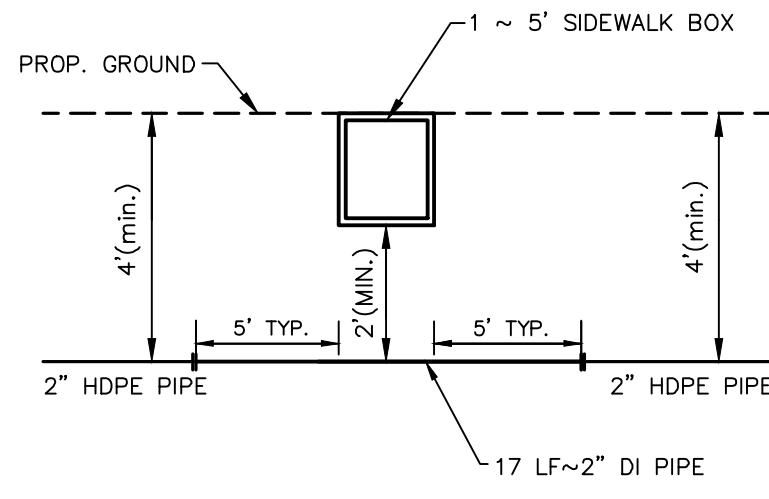
MATCHLINE - SEE SHEET C5.00



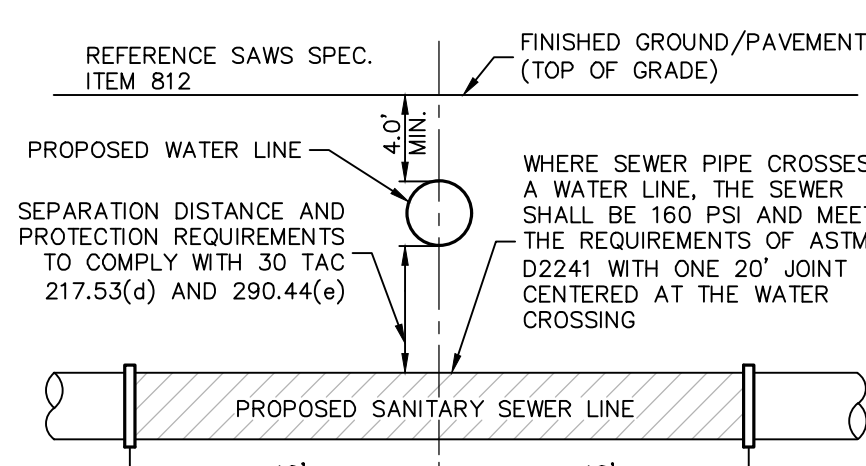
NOTE: ALL RETAINER GLANDS SHALL BE MEG-A-LUG TYPE
WATER/RAIN CROSSING DETAIL "E"
NOT TO SCALE



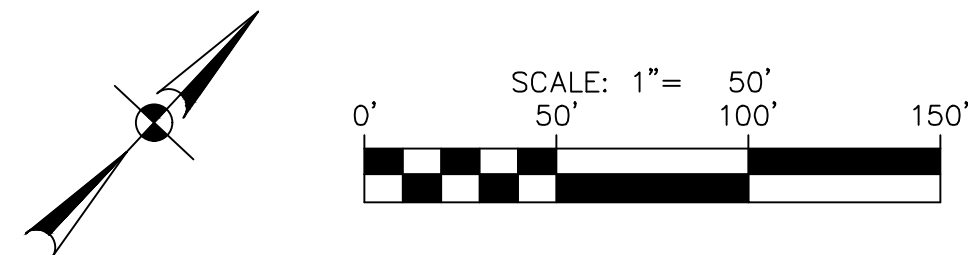
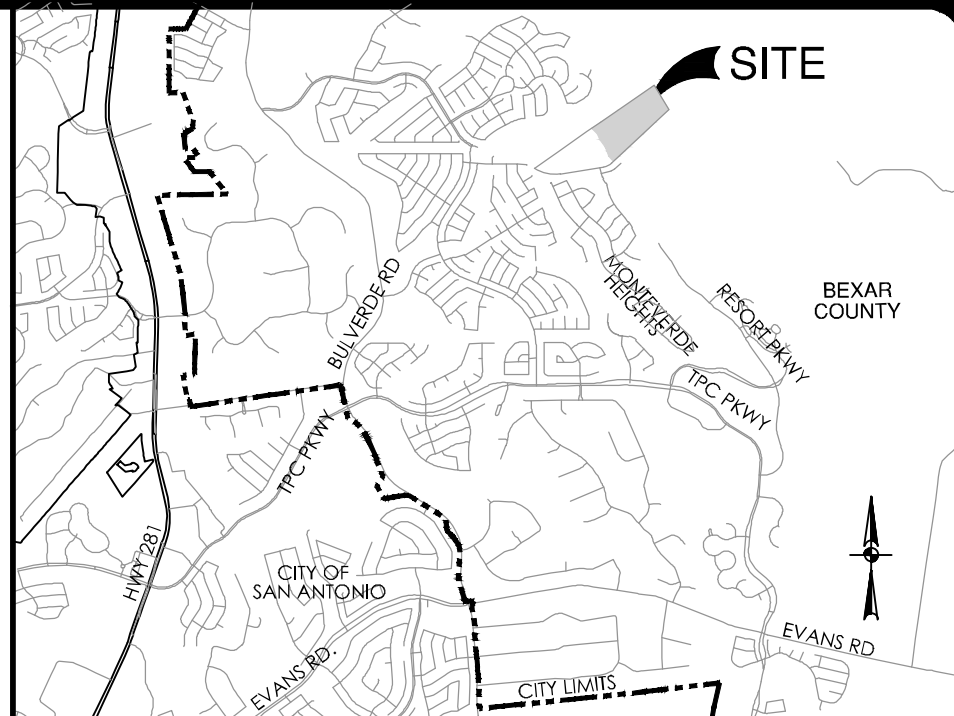
NOTE: ALL RETAINER GLANDS SHALL BE MEG-A-LUG TYPE
WATER/RAIN CROSSING DETAIL "F"
NOT TO SCALE



NOTE: ALL RETAINER GLANDS SHALL BE MEG-A-LUG TYPE
WATER/RAIN CROSSING DETAIL "G"
NOT TO SCALE



TYPICAL SANITARY SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE



WATER LEGEND

PROJECT LIMITS	---
EXISTING WATER	---
EXISTING SEWER	---
PROPOSED SEWER	---
PROPOSED WATER	---
PROPOSED 3/4" SINGLE SERVICE WITH 5/8" METER	---
PROPOSED SINGLE 3" IRRIGATION SERVICE WITH 8" METER	---
JOINT RESTRAINT	---

FIRE FLOW NOTE:

IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1750 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING THE BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SET FORTH BY THE CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

PRIVATE STREET DESIGNATION :

LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE CABLE, TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :

LOT 901, BLOCK 31, CB 4909 ARE DESIGNATED AS PRIVATE OPEN SPACE, PERMEABLE AND AS A DRAINAGE, SEWER, WATER, GAS, ELECTRIC, TELEPHONE, CABLE TV AND PEDESTRIAN EASEMENT.

PRESSURE REDUCING VALVE NOTE:

PRESSURE REDUCING VALVE TO BE INSTALLED ON CUSTOMER'S SIDE OF METER BY HOMEOWNER.

PRESSURE NOTE:

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 1,215 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 1,215 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S). IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).

JOINT RESTRAINT NOTE:

CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINING HARNESSES OR FIELD LOCK GASKETS AT ALL JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT ALL TEES, BENDS, VALVES, ETC. HAVE A MINIMUM OF 5 FT OF PIPE WITH NO JOINTS ON EACH SIDE OF THE FITTING. JOINT RESTRAINTS AND RETAINER GLANDS SHALL BE CALCULATED BY SAWS APPROVED PROGRAMS. THERE WILL BE NO SEPARATE PAY ITEM FOR RETAINER GLANDS AND OTHER JOINT RESTRAINING HARNESSES AND GASKETS, BUT SHALL BE SUBSIDIARY TO THE UNIT COST PER LINEAL FOOT OF PIPE INSTALLED.

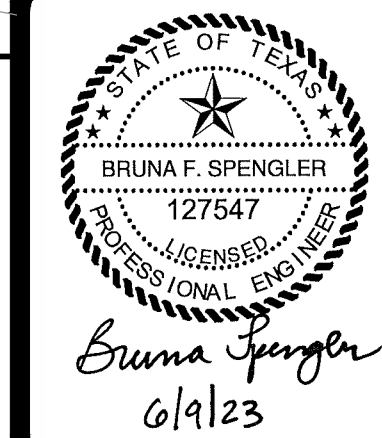
TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

WATER (SAWS PRESSURE ZONE 11A)

DEVELOPER'S NAME: <u>THE CIBOLO CANYONS, LP</u>	
ADDRESS: <u>6310 CAPITAL DRIVE, SUITE 130</u>	
CITY: <u>LAKEWOOD RANCH</u> STATE: <u>FLORIDA</u> ZIP: <u>34202</u>	
PHONE# <u>941-388-0707</u> FAX# <u>N/A</u>	
SAWS BLOCK MAP# <u>188662</u> TOTAL EDU'S <u>111</u> TOTAL ACREAGE <u>37.16</u>	
TOTAL LINEAR FOOTAGE OF PIPE: <u>396 LF - 2", 3326 LF - 8"</u> PLAT NO. <u>22-11800410</u>	
NUMBER OF LOTS <u>106</u> SAWS JOB NO. <u>22-1199</u>	

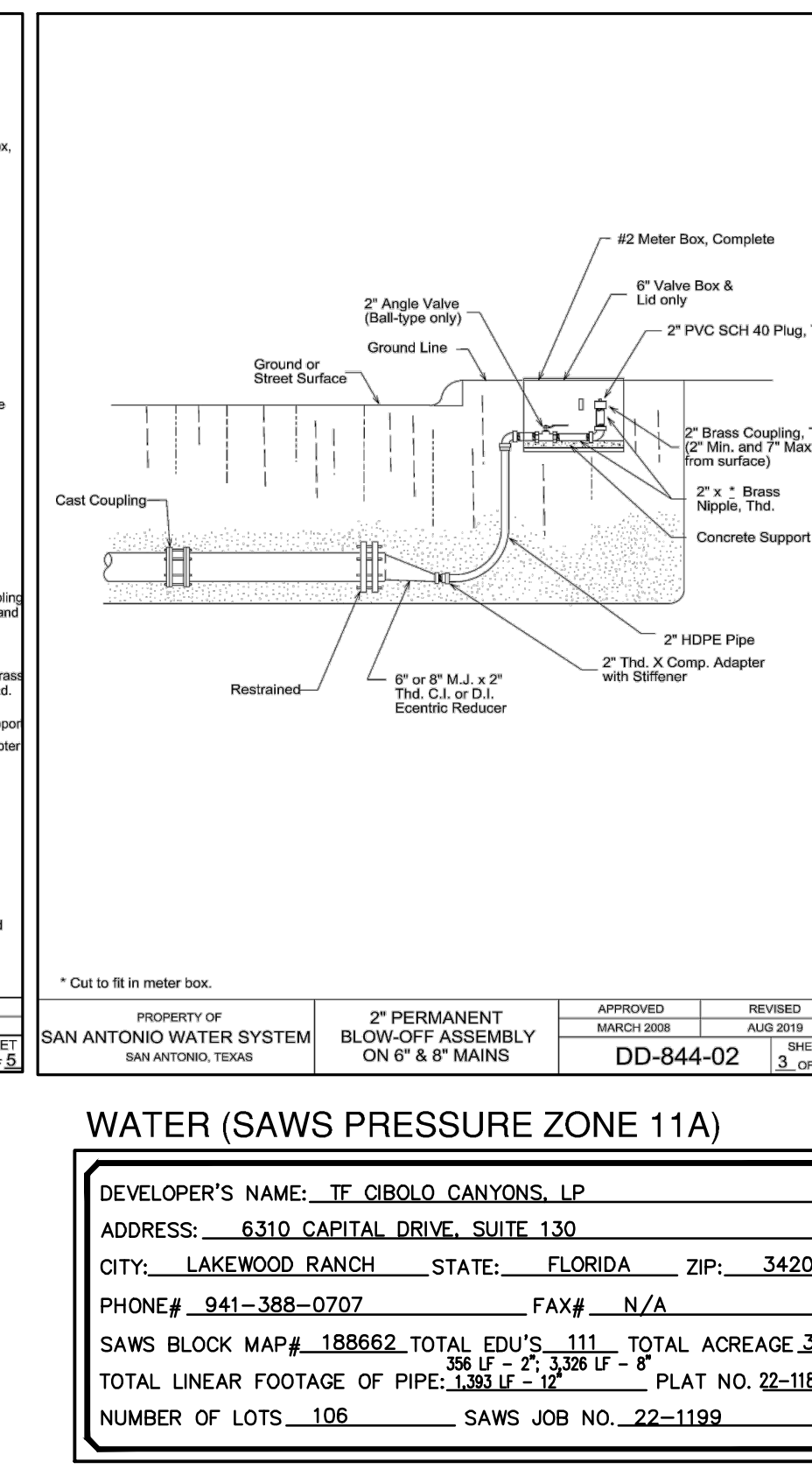
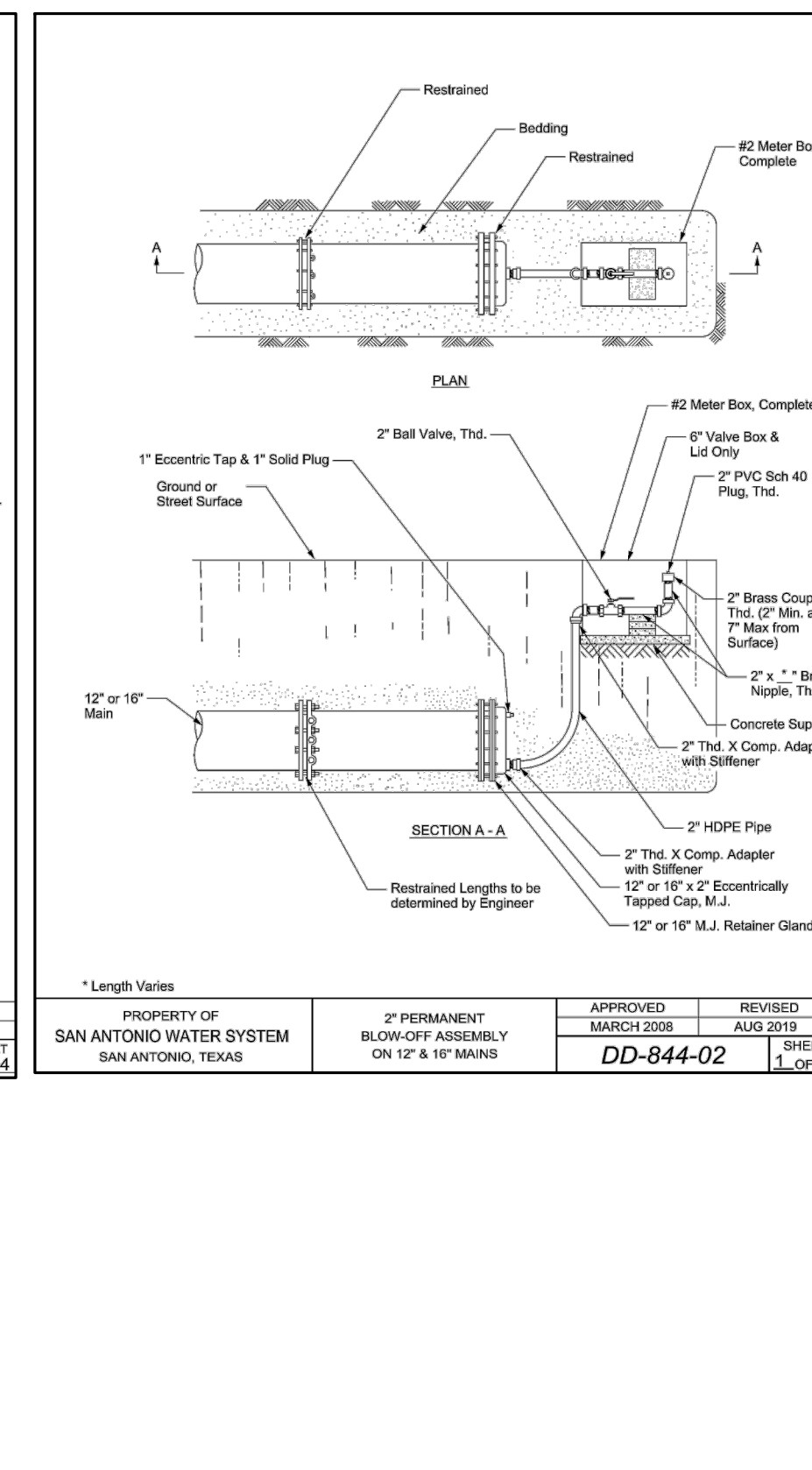
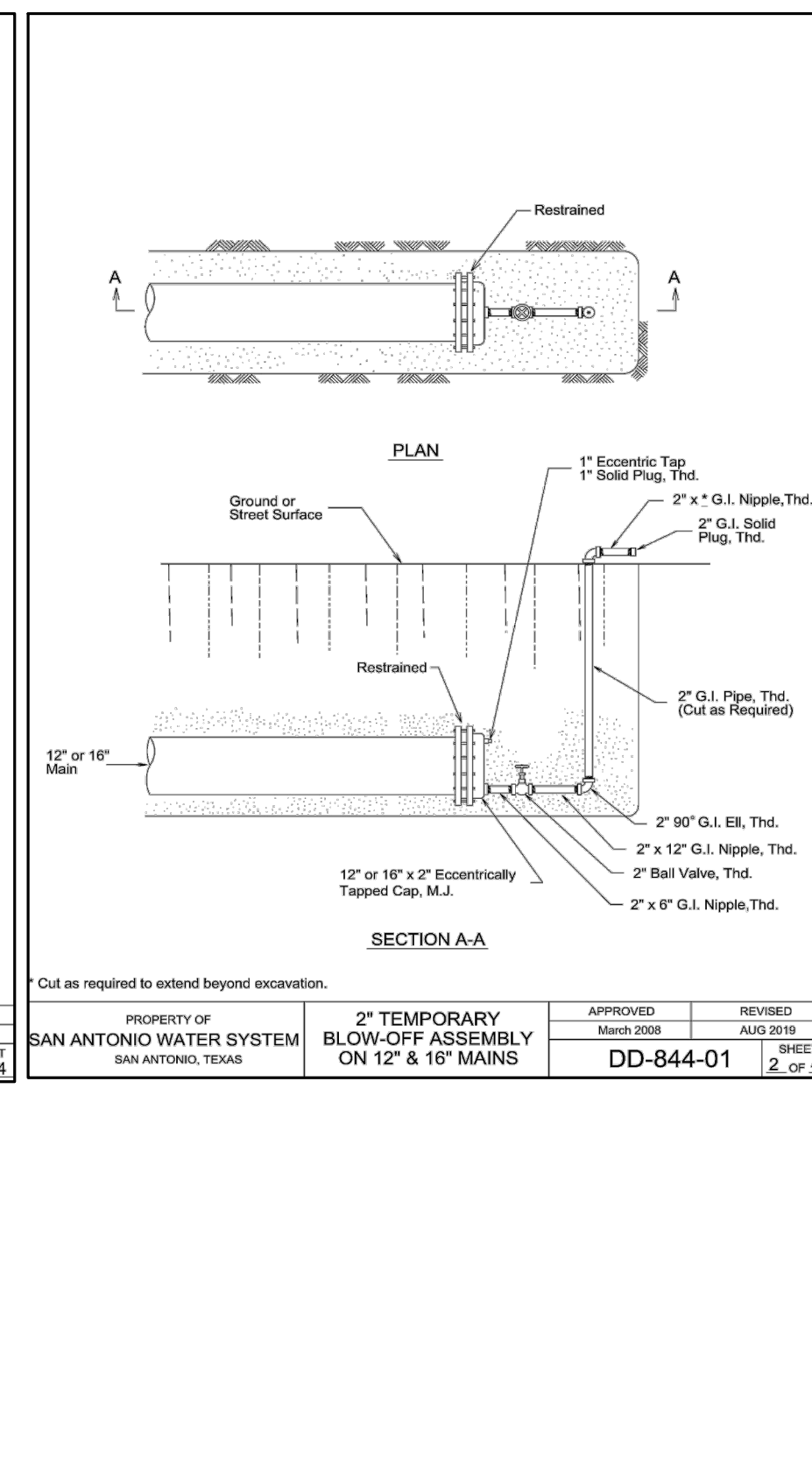
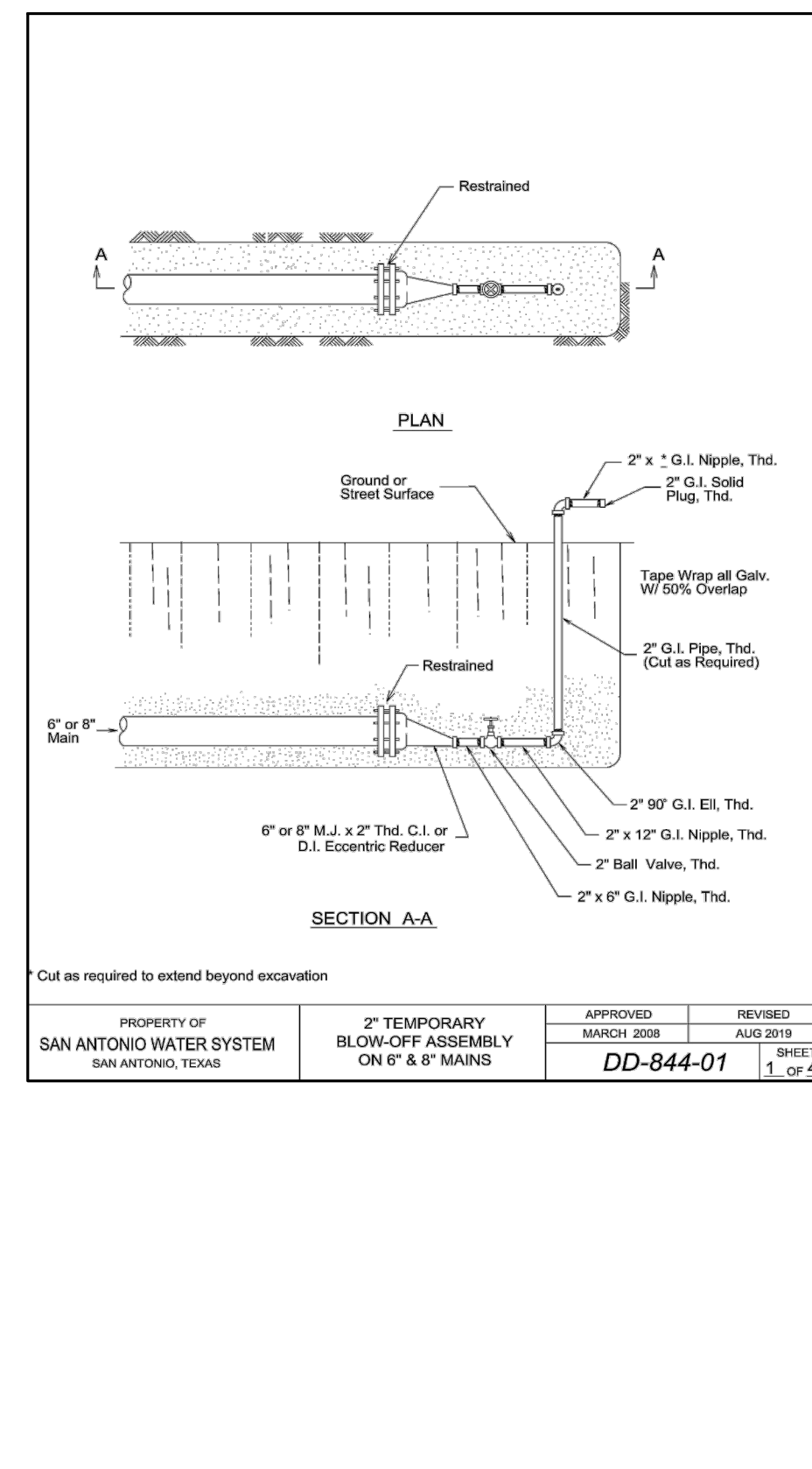
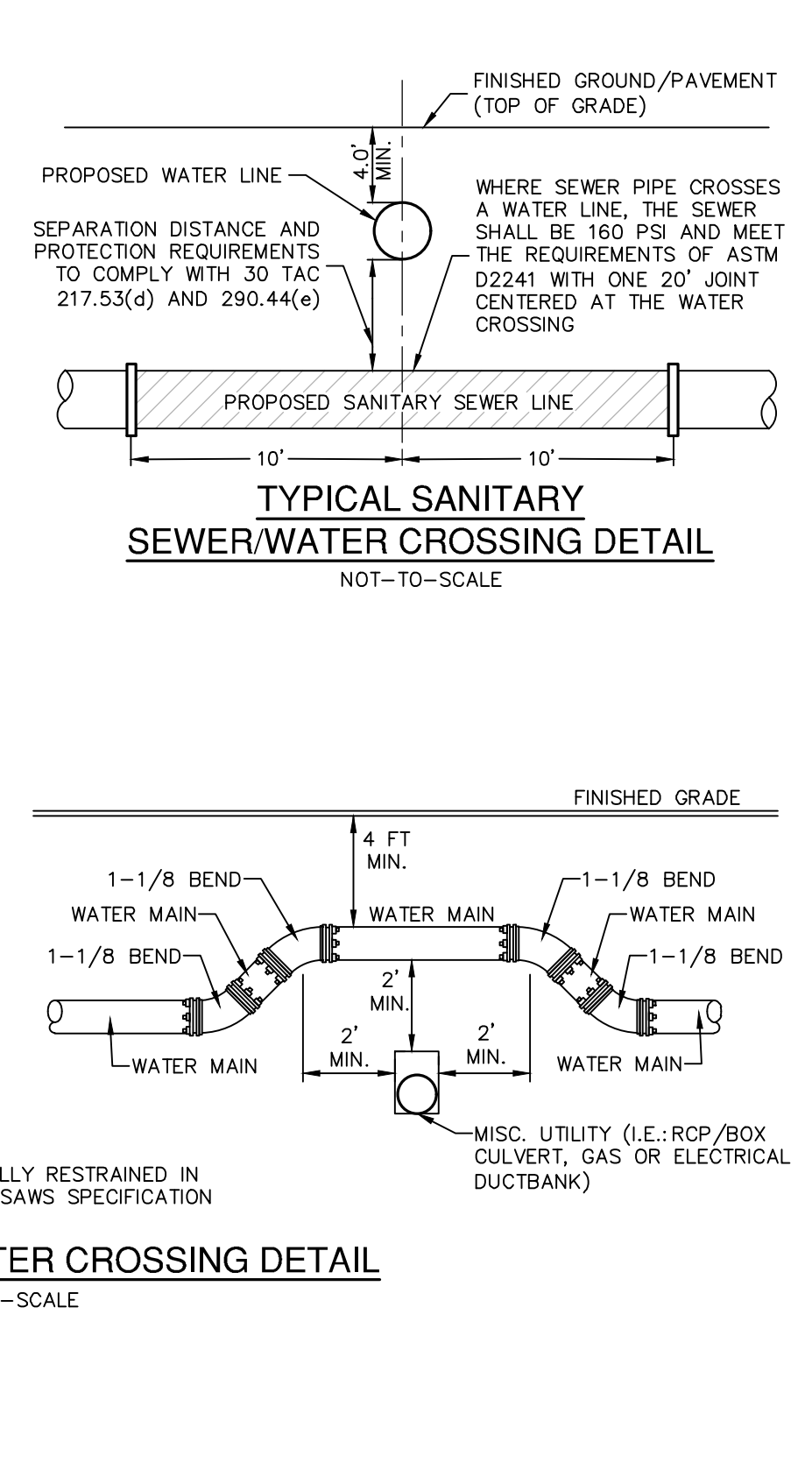
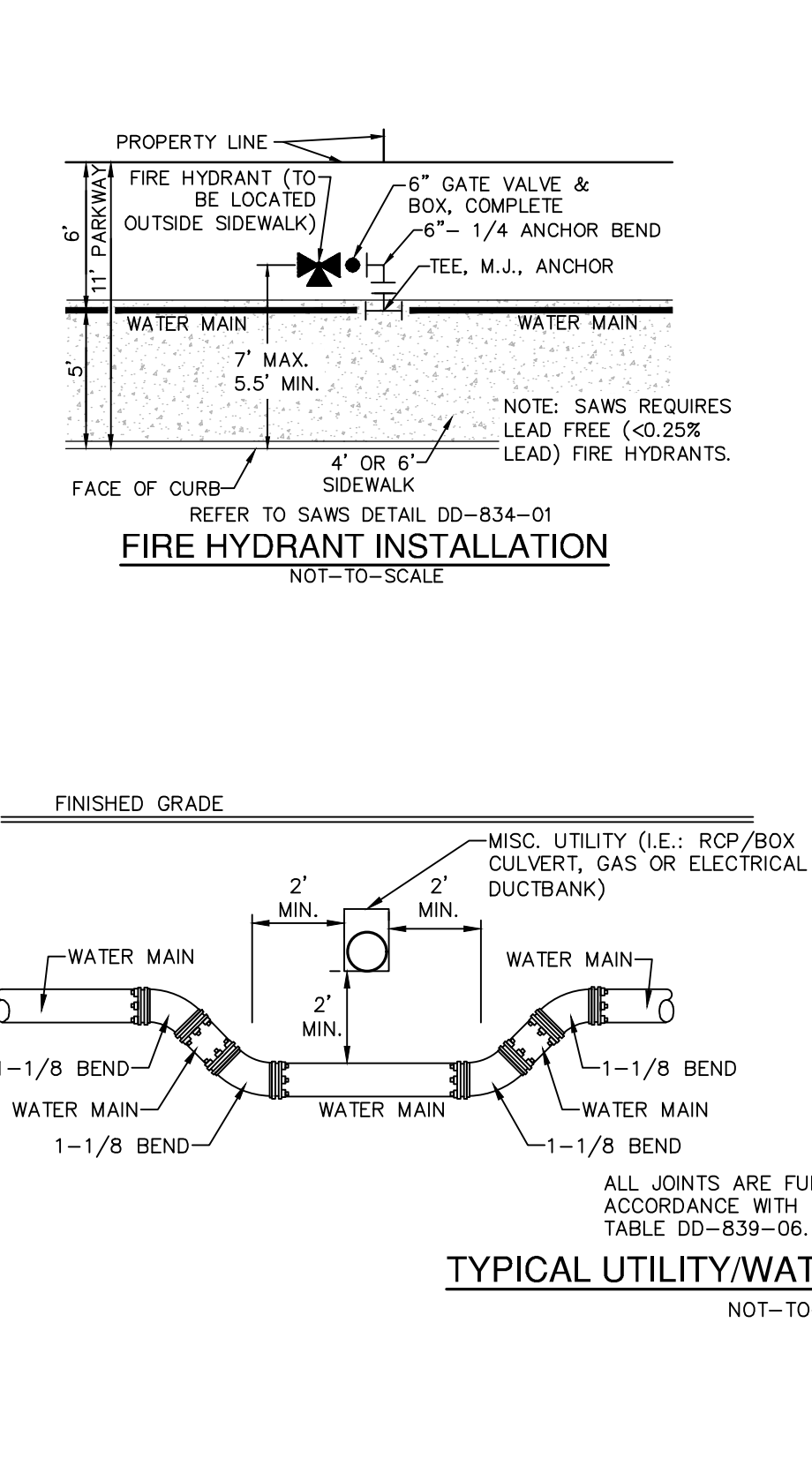
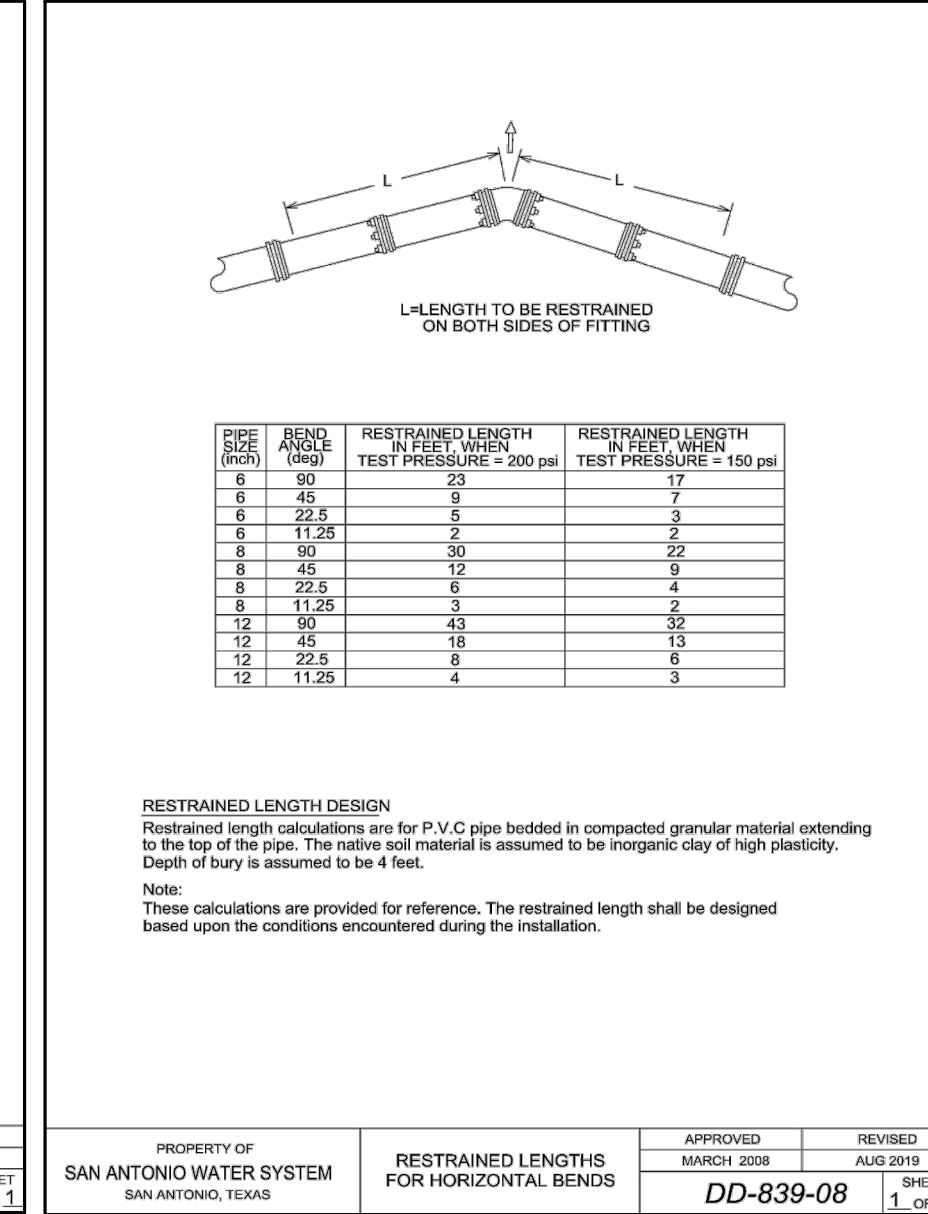
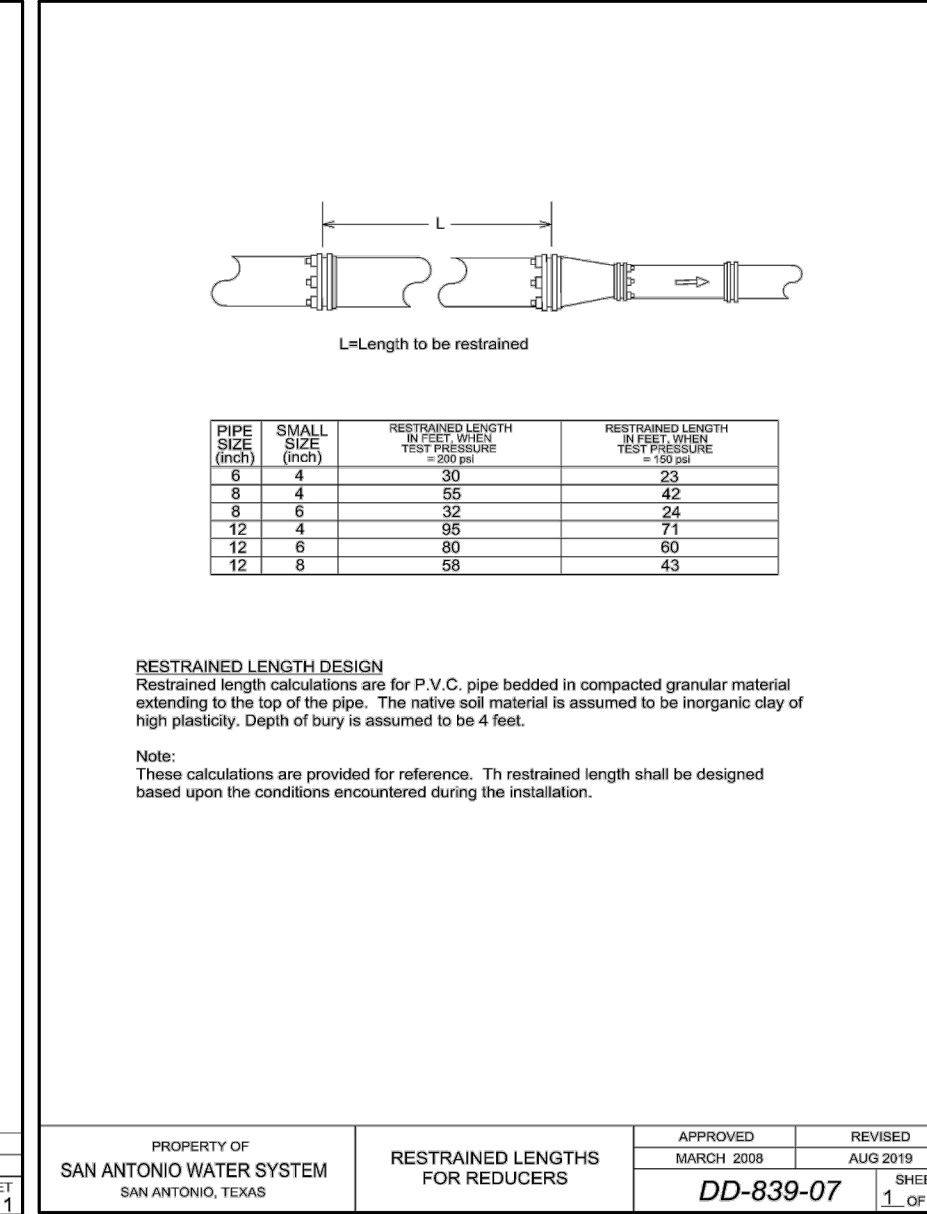
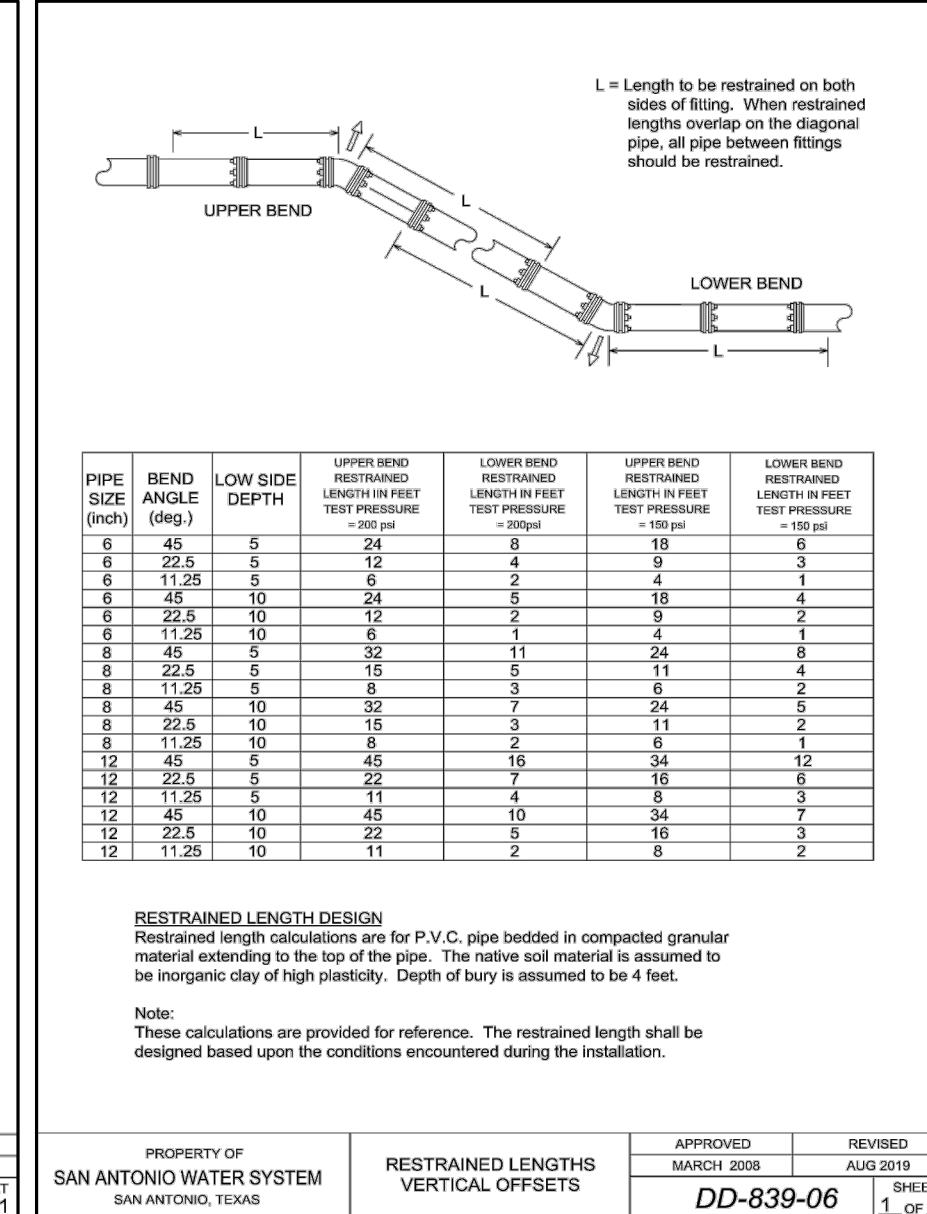
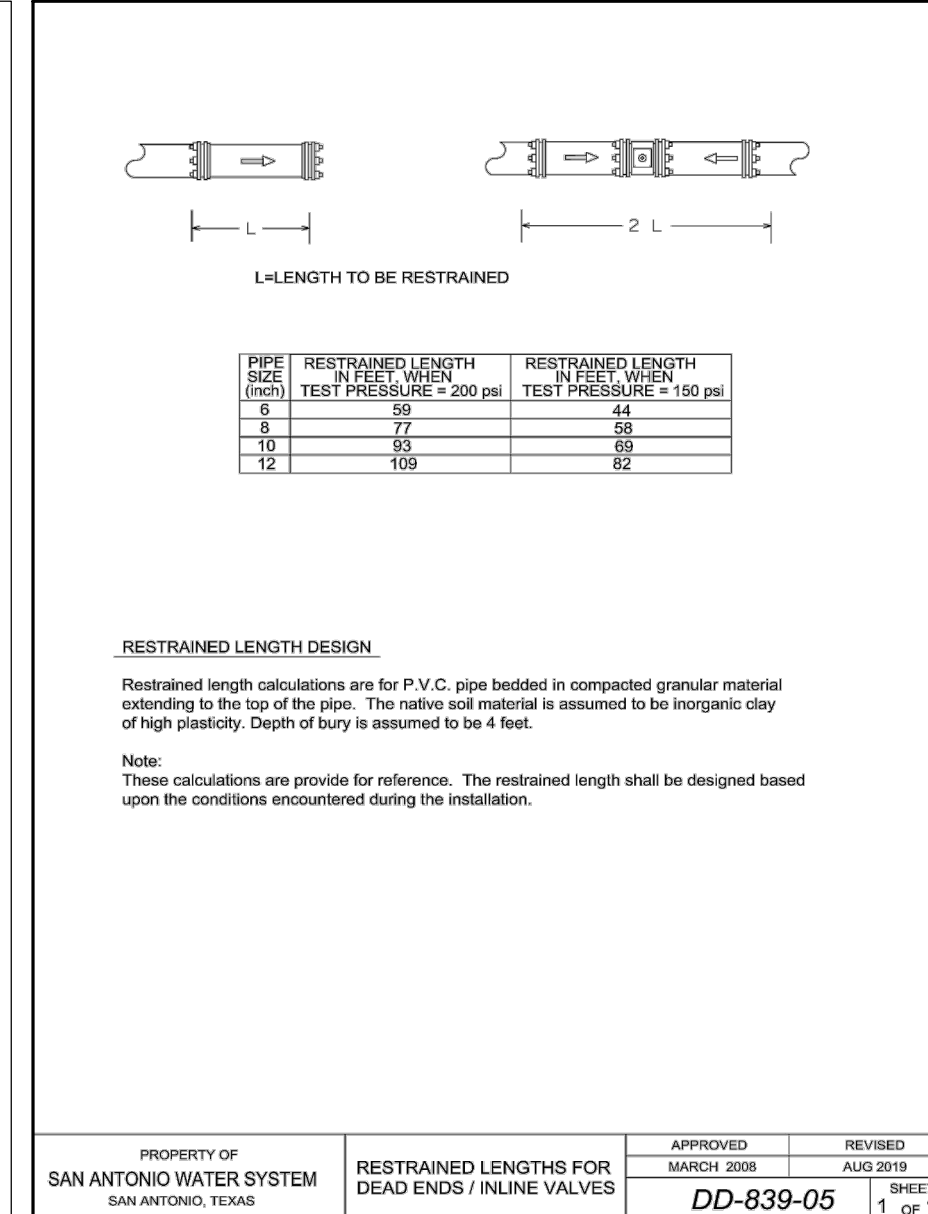
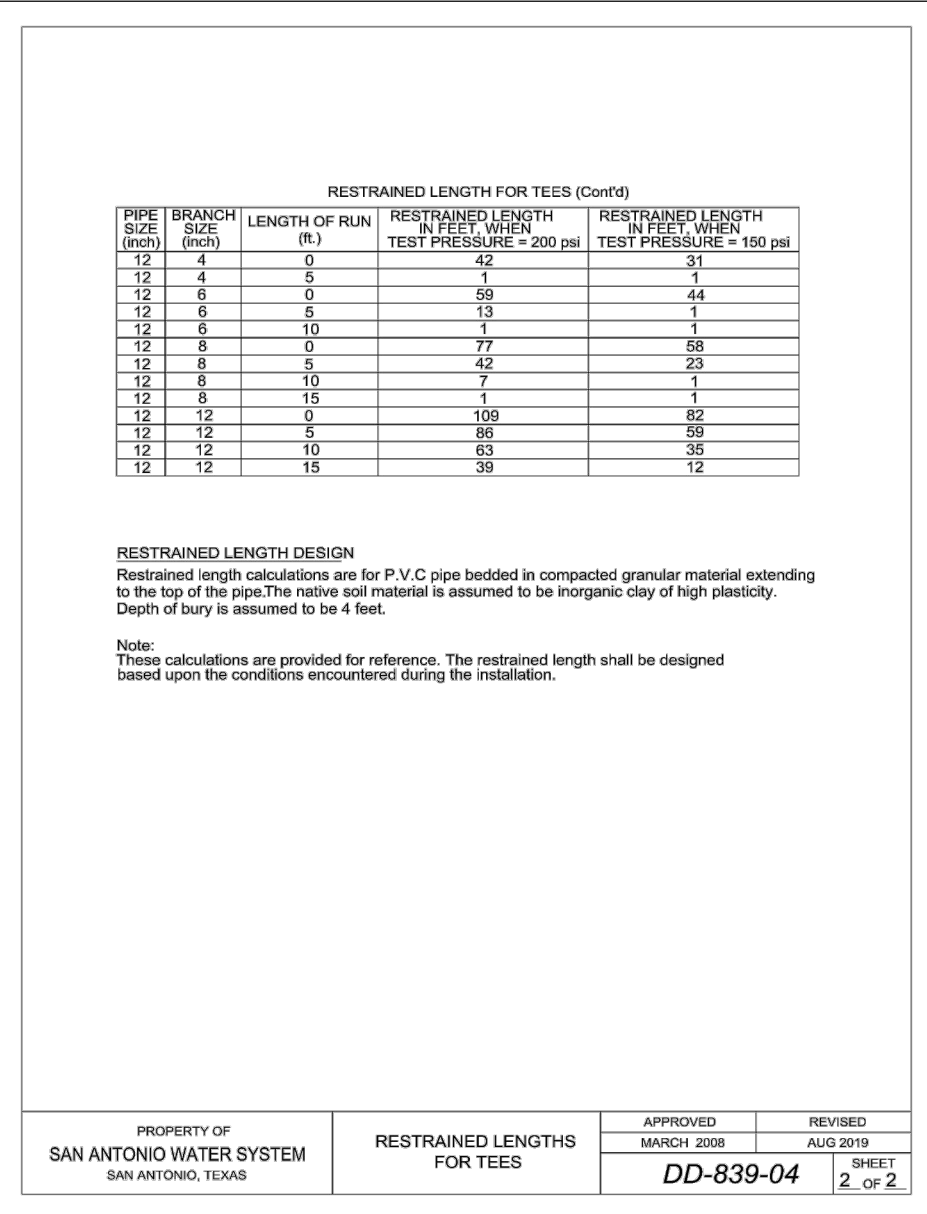
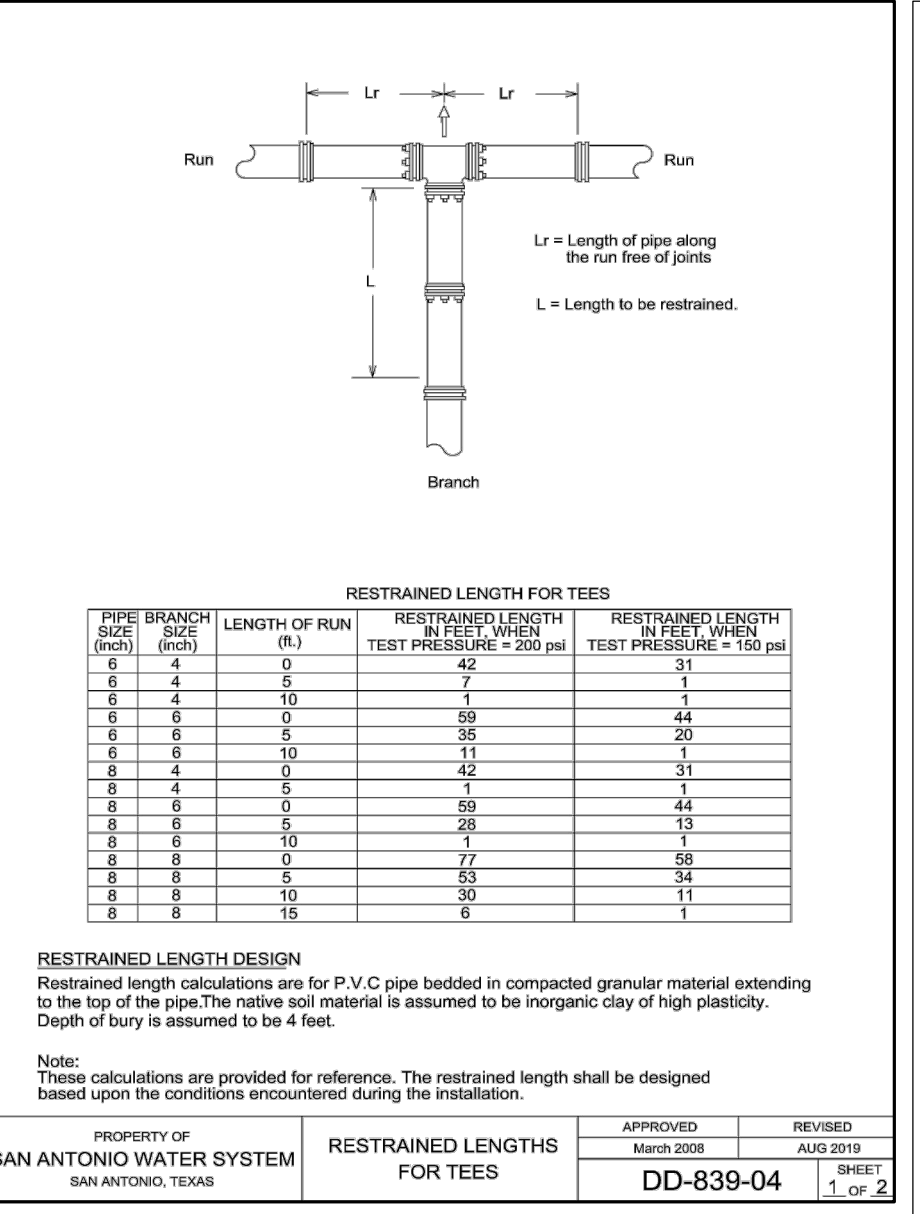
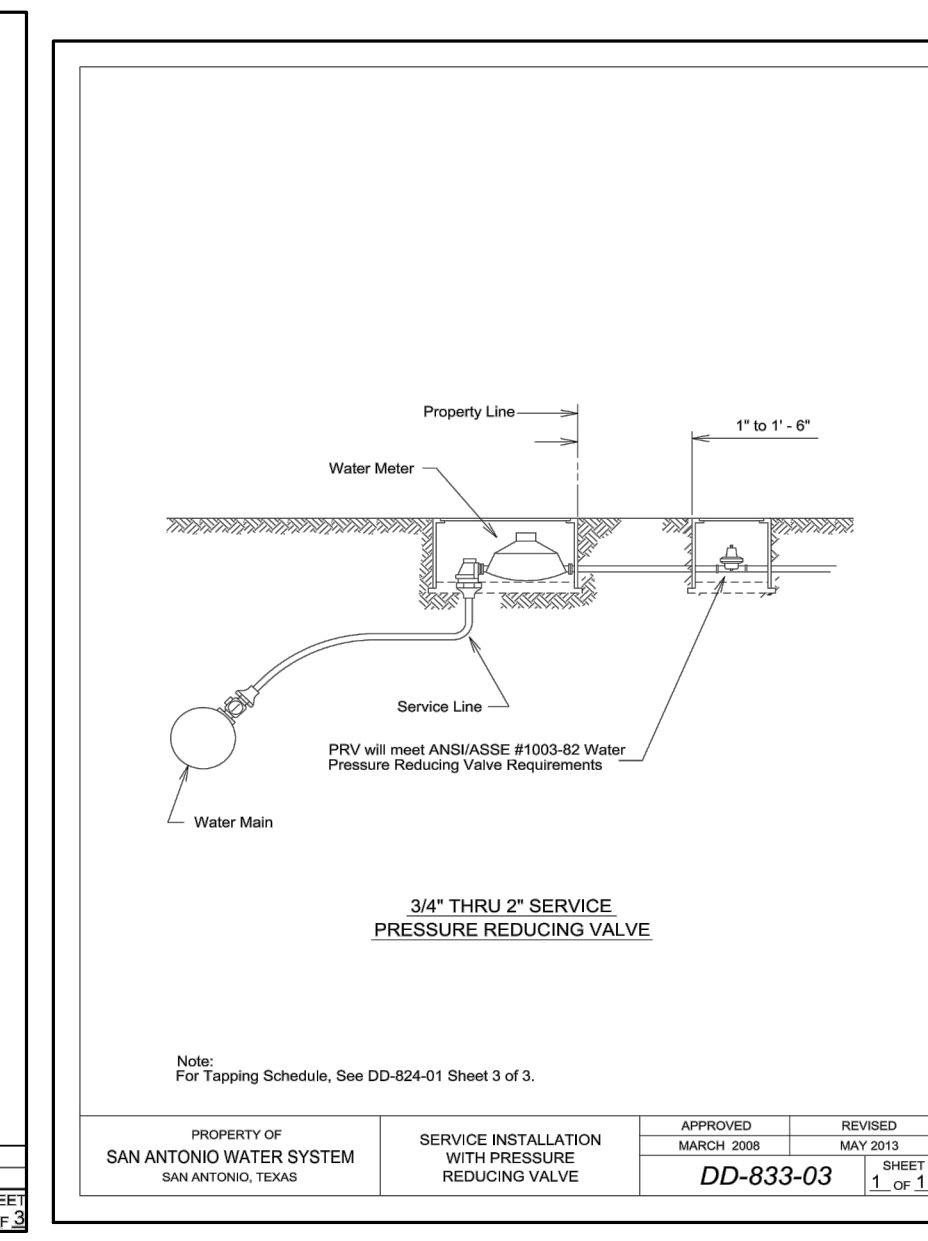
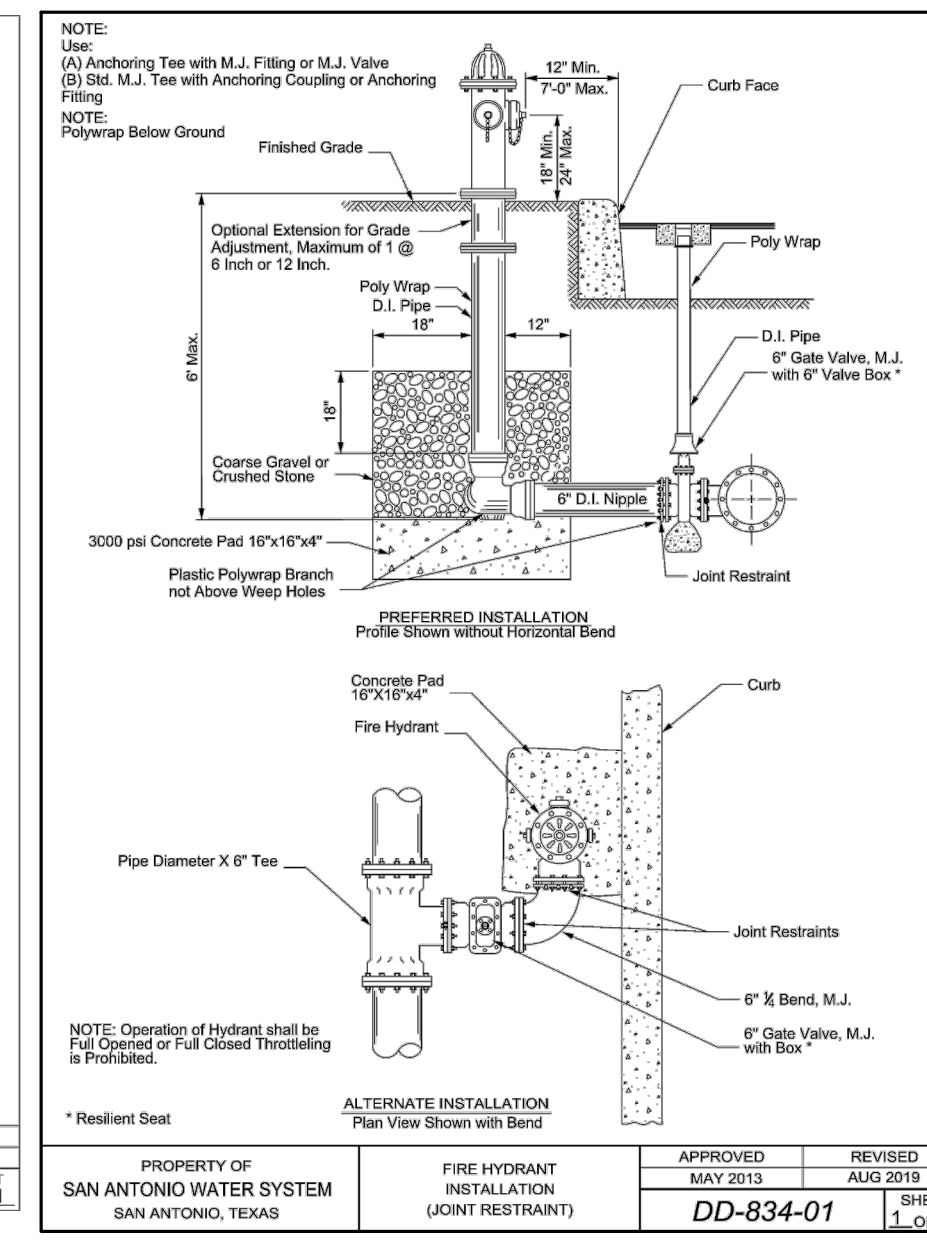
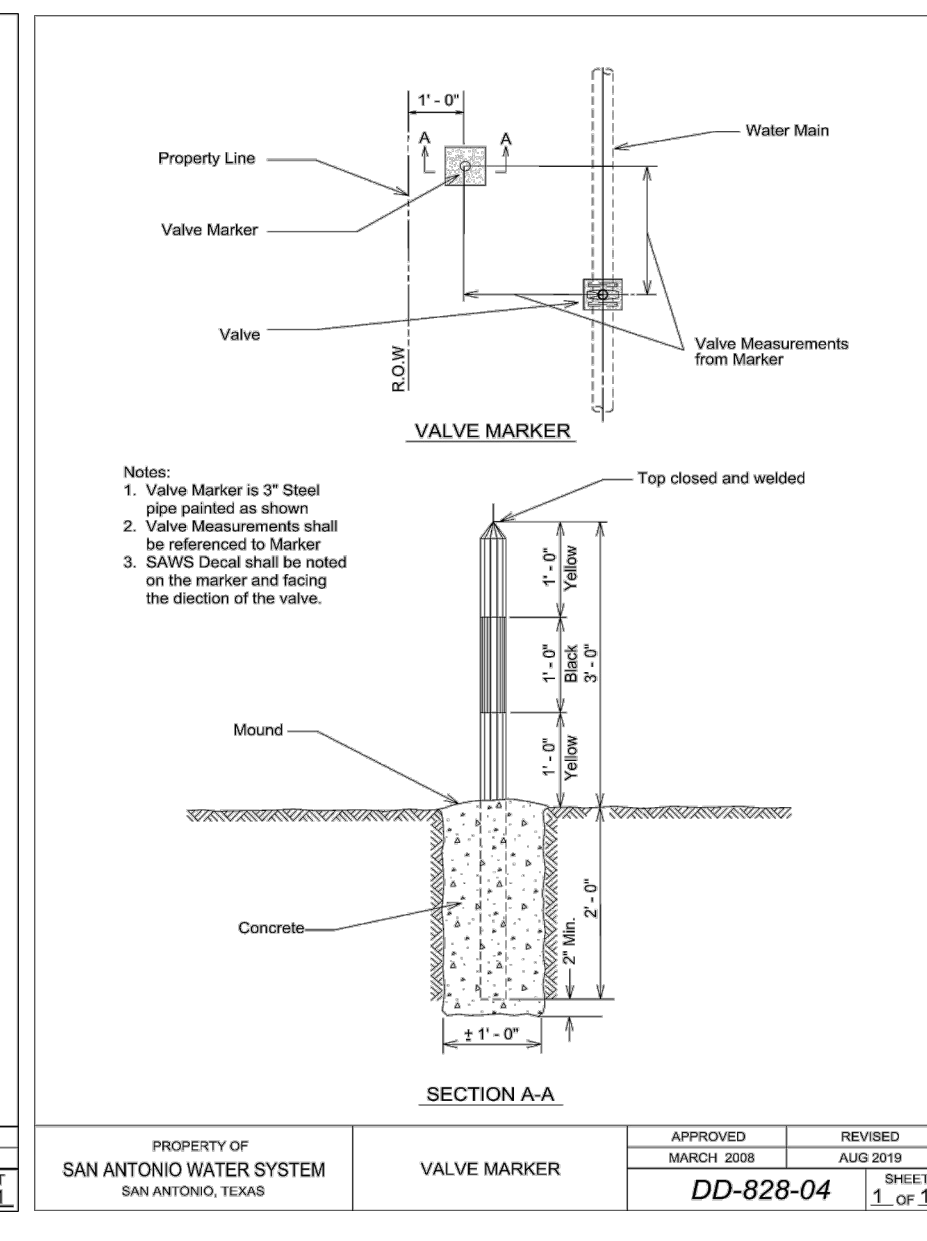
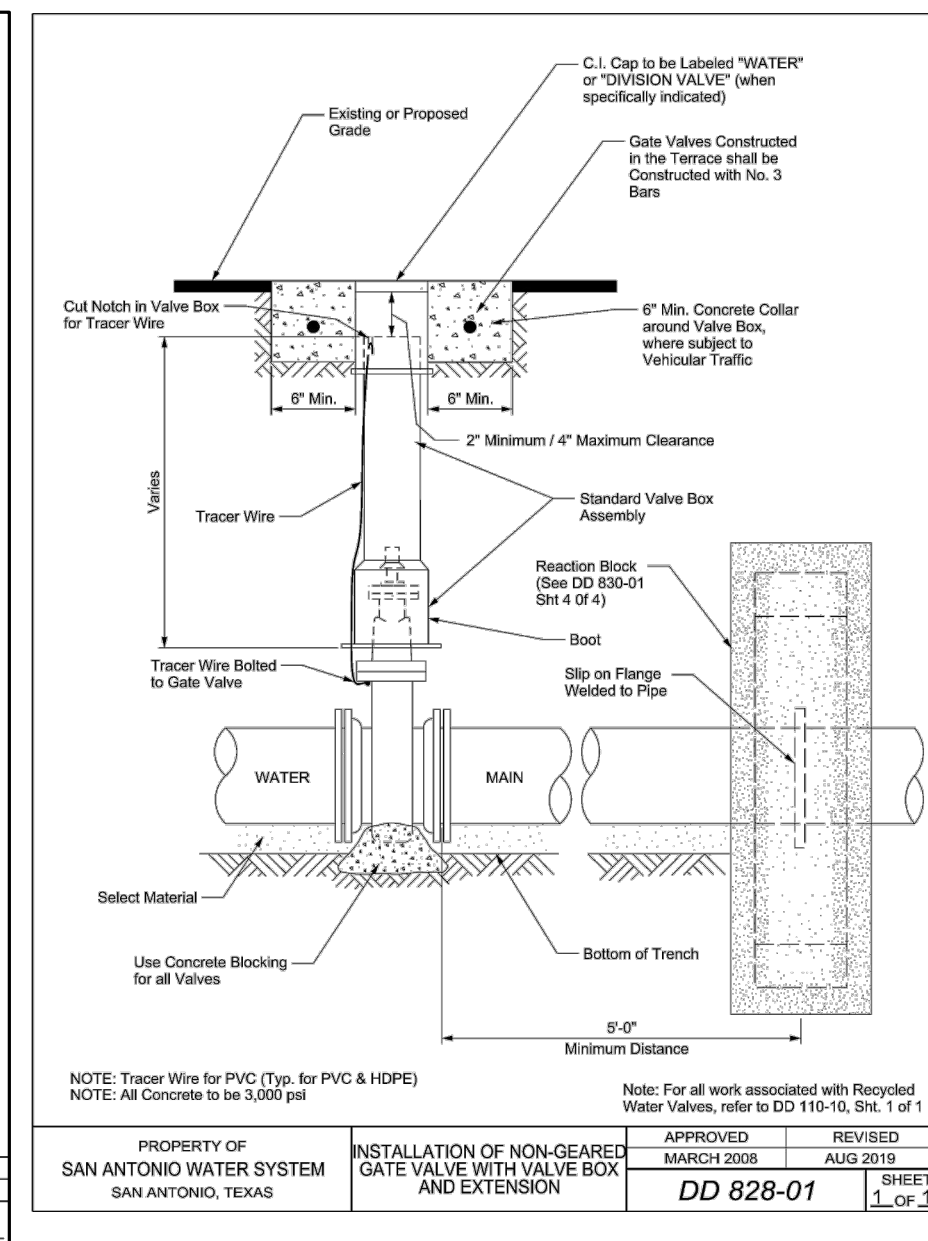
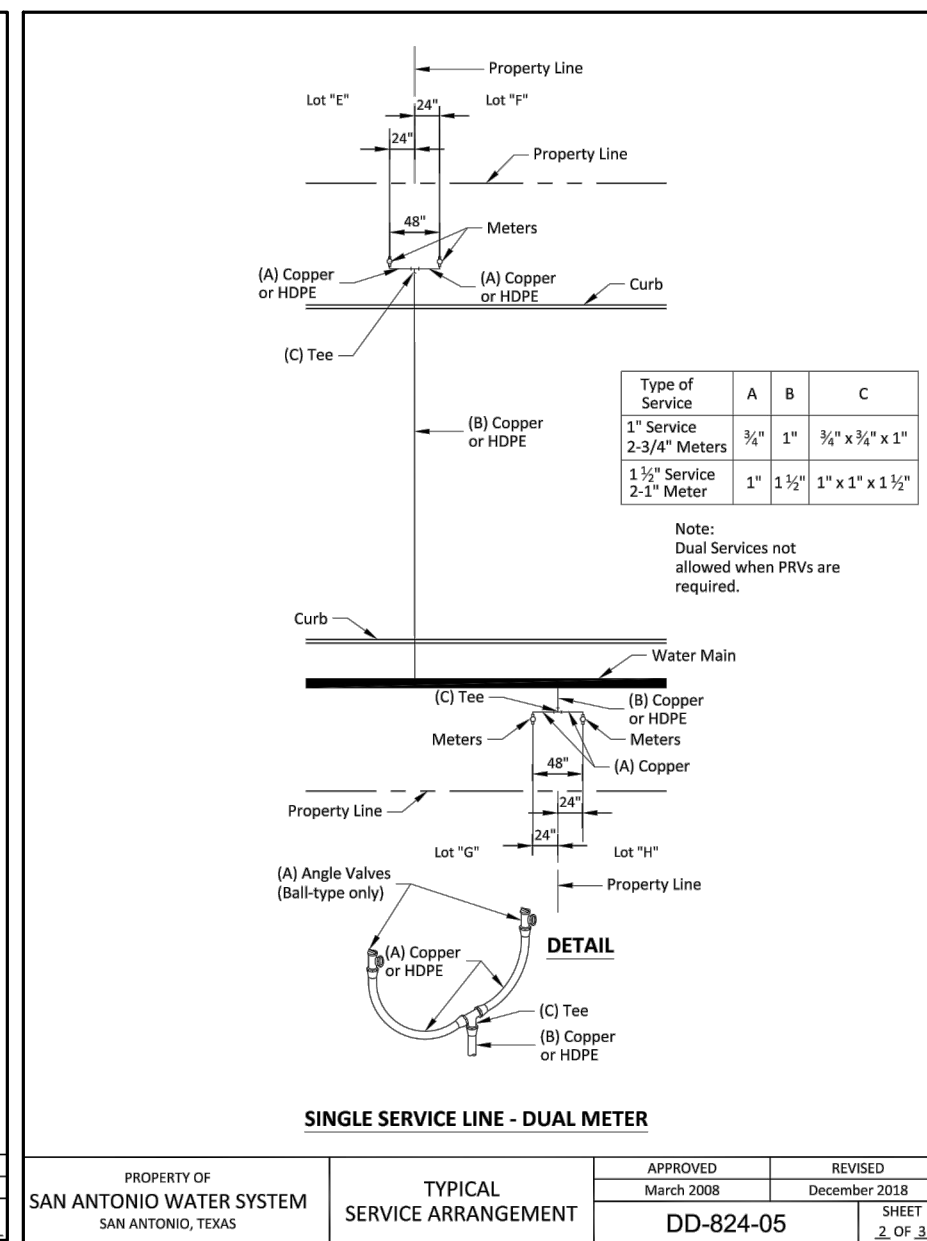
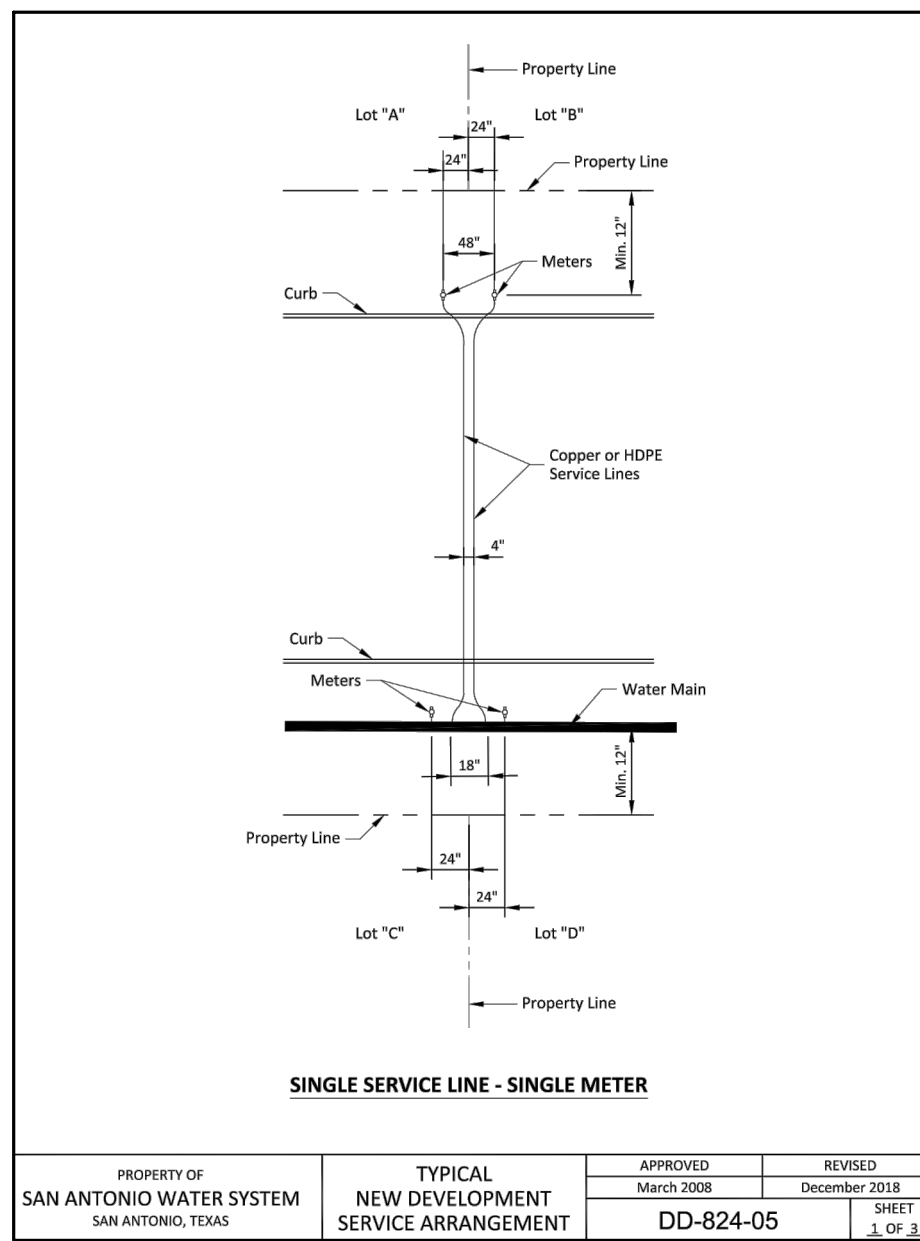
DATE	NO.	REVISION



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
OVERALL WATER DISTRIBUTION PLAN

PLAT NO. <u>22-11800410</u>
JOB NO. <u>12125-08</u>
DATE <u>JUNE 2023</u>
DESIGNER <u>CB</u>
CHECKED <u>BS</u> DRAWN <u>FP</u>
SHEET <u>C5.01</u>



WATER (SAWS PRESSURE ZONE 11A)

DEVELOPER'S NAME: THE CIBOLO CANYONS, LP

ADDRESS: 6310 CAPITAL DRIVE, SUITE 130

CITY: LAKEWOOD RANCH STATE: FLORIDA ZIP: 34202

PHONE# 941-388-0707 FAX# N/A

SAWS BLOCK MAP# 188662 TOTAL DEED'S 111 TOTAL ACREAGE 37.16

TOTAL LINEAR FOOTAGE OF PIPE 1,393 LF - 12" PLAT NO. 22-11800410

NUMBER OF LOTS 106 SAWS JOB NO. 22-1189

DATE

NO.

REVISION

STATE OF TEXAS

BRUNA F. SPENGLER

127547

PROFESSIONAL ENGINEER

Bruna Spengler

6/19/23

PAPE-DAWSON

ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #10028600

CIBOLO CANYON - UNIT 9C, ENCLAVE

SAN ANTONIO, TEXAS

WATER DISTRIBUTION DETAILS

PLAT NO. 22-11800410

JOB NO. 12125-08

DATE JUNE 2023

DESIGNER CB

CHECKED BS DRAWN FP

SHEET C5.02

Dates: Jun 09, 2023 4:00pm User: ID: EFWenz
File: P:\12125\08\Design\Chal\DW-DT 1212508.dwg

SAWS CONSTRUCTION NOTES
(LAST REVISED JULY 2017)

SAWS GENERAL SECTION

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
- A.CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM" TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER" TAC TITLE 30 PART 1 CHAPTER 290.
- B.CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE".
- C.CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION".
- D.CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
- E.CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
3. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, [HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS](http://www.saws.org/business_center/specs). UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS.
4. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.
5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING MARKERS LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
- SAWS UTILITY LOCATES: [HTTP://WWW.SAWS.ORG/SERVICE/LOCATES](http://www.saws.org/service/locates)
 - COSA DRAINAGE (210) 207-0724 OR (210) 207-6026
 - COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480
 - COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951
 - TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
8. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
9. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
- WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
11. ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.
12. COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION INSPECTION DIVISION.

SAWS WATER NOTES

1. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS. THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014
2. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS- CONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
3. VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSP)
4. SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD ENDS, PLUGS, CAPS, TEES, CROSSES, VALVES, AND BENDS. IN ACCORDANCE WITH THE STANDARD DRAWINGS DD-839 SERIES AND ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
5. ALL VALVES SHALL READ "OPEN RIGHT".
6. PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 1,215 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 1,215 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).
7. PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET. THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. THE CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.
8. BACKFLOW PREVENTION DEVICES:
- ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACKFLOW PREVENTION DEVICES.
 - ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY SAWS PRIOR TO INSTALLATION.
9. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.
10. DIVISION VALVES: DIVISION VALVES SHOWN ON PLANS OR NOT SHOWN ON PLANS BUT FOUND IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR THE CONTRACTOR. OPERATION OF A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES, OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VALVE CAN TAKE SEVERAL WEEKS FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF.

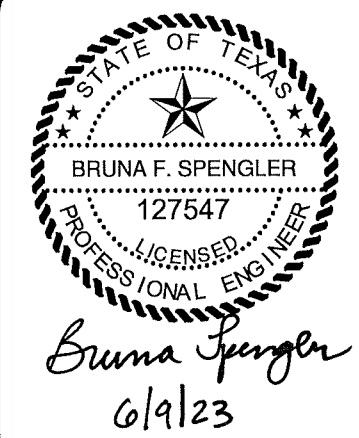
PROJECT WATER NOTES

1. MACHINE CHLORINATION BY THE S.A.W.S.
2. ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
3. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, AS PROVIDED FOR IN THE SPECIAL CONDITIONS.
4. THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE THIS CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO THE CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE AND VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT THE TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY. AFTER CONSTRUCTION BEGINS, ALL CONSTRUCTION STAKES, MARKS, ETC., SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR, AND IN CASE OF DESTRUCTION OR REMOVAL BY THE CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS, ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
6. THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR INSTALLATION OF ALL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY LOT CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, OR BY ANY OTHER MEANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7. STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND THE PARKWAY WILL BE CUT DOWN TO TOP OF CURB BY THE STREET CONTRACTOR, PRIOR TO CONSTRUCTION OF THE WATER MAINS. IT WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY TO PROVIDE A PAD FOR HIS EQUIPMENT.
8. WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED NINE FEET FROM FACE OF CURB TO CENTER OF THE METER BOX.
9. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
10. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND THE S.A.W.S. RELEASES THE MAIN FOR TIE-IN AND USE.
11. UNIT PRICE BID FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDE FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLETE, ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).
12. WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO).
13. A CLEAR SPACE SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. THIS AREA SHOULD HAVE A MINIMUM DIAMETER OF 3.0' AND BE CLEAN OF VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.
14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS.
15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

WATER (SAWS PRESSURE ZONE 11A)

DEVELOPER'S NAME: <u>THE CIBOLO CANYONS, LP</u>	
ADDRESS: <u>6310 CAPITAL DRIVE, SUITE 130</u>	
CITY: <u>LAKEWOOD RANCH</u>	STATE: <u>FLORIDA</u> ZIP: <u>34202</u>
PHONE# <u>941-388-0707</u>	FAX# <u>N/A</u>
SAWS BLOCK MAP# <u>188662</u> TOTAL EDU'S <u>111</u> TOTAL ACREAGE <u>37.16</u>	
TOTAL LINEAR FOOTAGE OF PIPE: <u>396 LF - 2"</u> , <u>3,326 LF - 8"</u> PLAT NO. <u>22-11800410</u>	
NUMBER OF LOTS <u>106</u>	SAWS JOB NO. <u>22-1199</u>

DATE	NO.	REVISION



PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #10028600

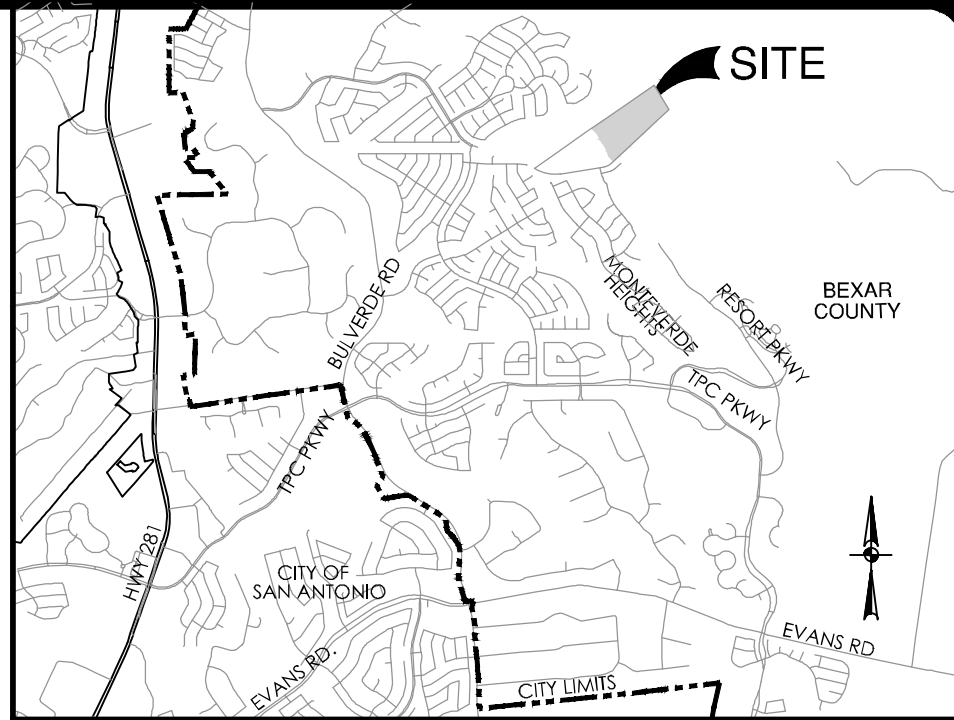
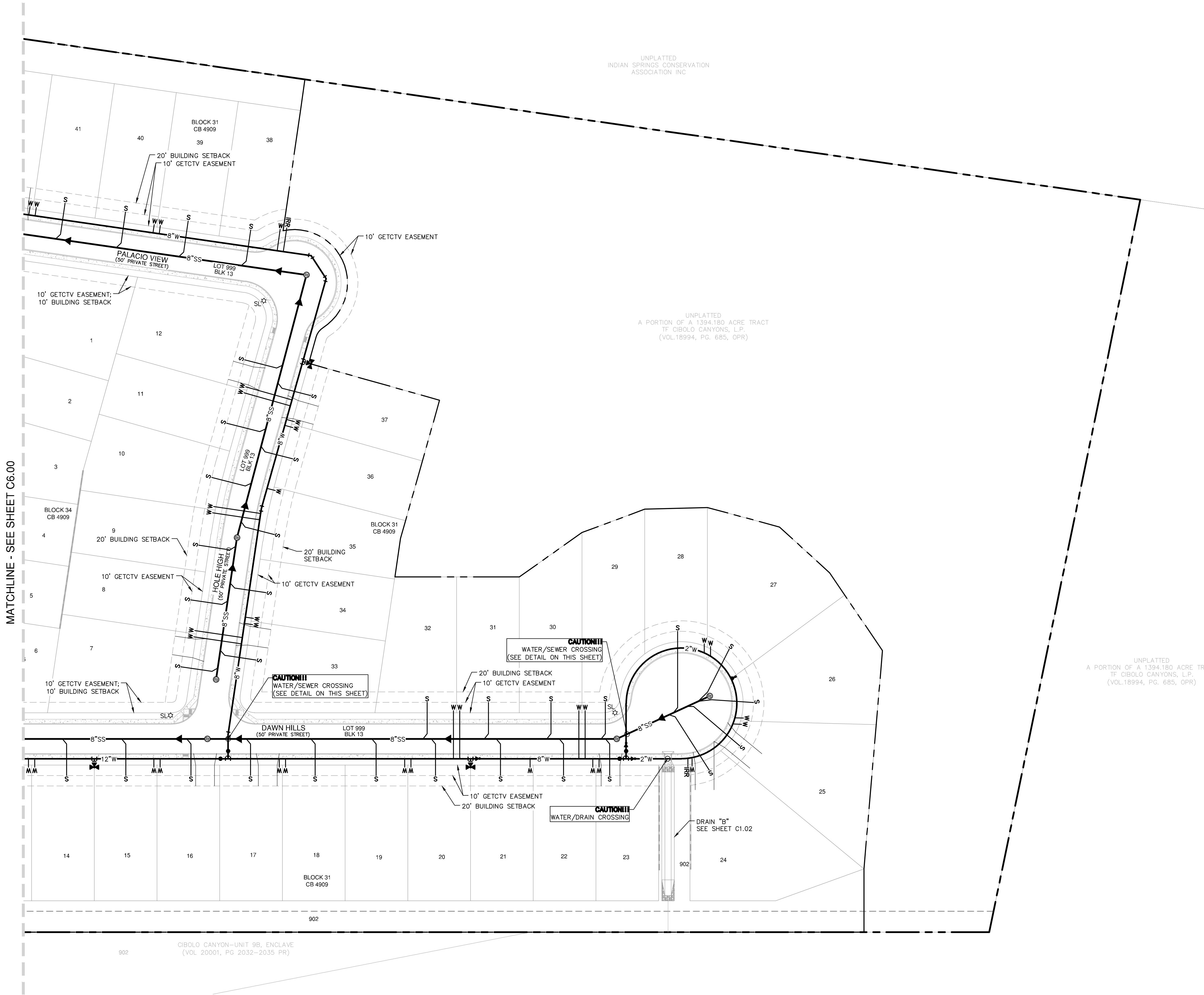
CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS

WATER DISTRIBUTION NOTES

PLAT NO. <u>22-11800410</u>
JOB NO. <u>12125-08</u>
DATE <u>JUNE 2023</u>
DESIGNER <u>CB</u>
CHECKED <u>BS</u> DRAWN <u>FP</u>
SHEET <u>C5.03</u>

Dates: Jun 09, 2023, 4:01pm User ID: EFW627
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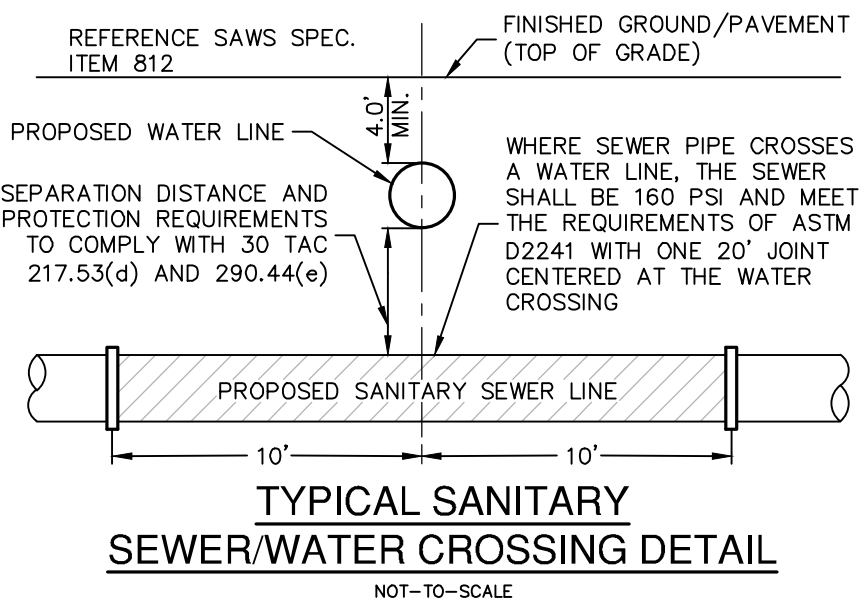


LOCATION MAP
NOT-TO-SCALE



UTILITY LEGEND

PROJECT LIMITS	---
EXISTING WATER	---
EXISTING SEWER	---
PROPOSED SEWER	---
PROPOSED WATER	---
PROPOSED WYE & LATERAL	---
SINGLE WATER SERVICE	---
DUAL WATER SERVICE	---
STREET LIGHTS	---
GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT	---
PROPOSED WALL	---



PRIVATE STREET DESIGNATION :

LOT 999, BLOCK 13, CB 4909, IS A PRIVATE STREET AND IS DESIGNATED AS AN UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

OPEN SPACE NOTE :

LOT 901, BLOCK 31, CB 4909 ARE DESIGNATED AS PRIVATE OPEN SPACE, PERMEABLE AND AS A DRAINAGE, SEWER, WATER, GAS, ELECTRIC, TELEPHONE, CABLE TV AND PEDESTRIAN EASEMENT.

CONDUIT NOTES:

- CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURB WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
- CONDUITS SHALL BE PVC WITH MINIMUM BURY OF 30 INCHES. SCHEDULE 80 TO BE USED FOR OPS CONDUITS, ALL OTHER CONDUITS ARE SCHEDULE 40.
- ALL CONDUITS SHALL BE EXTENDED BEHIND CURBS OR PROPOSED SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.

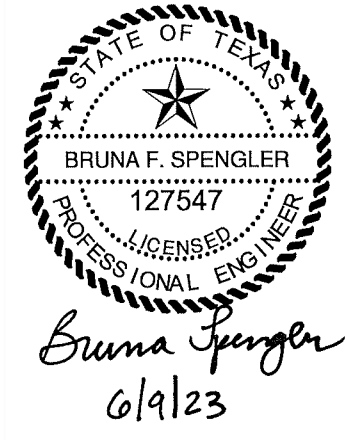
TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-468-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

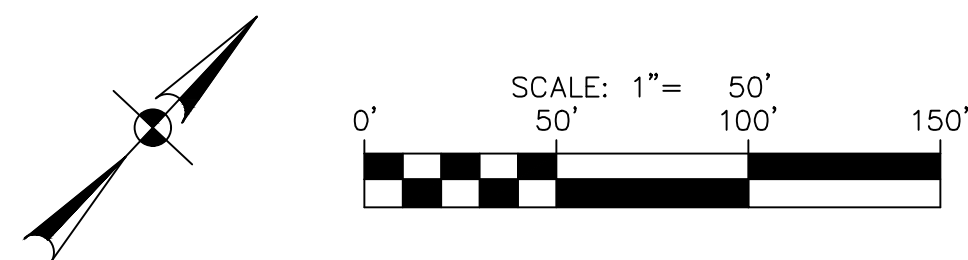
NO.	REVISION	DATE



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPB FIRM REGISTRATION #470 | TBPB FIRM REGISTRATION #10028800

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
OVERALL UTILITY PLAN

PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	JUNE 2023
DESIGNER	CB
CHECKED	BS DRAWN
SHEET	C6.01



PROJECT LIMITS
100 YR FLOODPLAIN
EXISTING CONTOUR
PROPOSED CONTOUR
FLOW ARROW (EXISTING)
FLOW ARROW (PROPOSED)
MINIMUM FINISHED FLOOR ELEVATION

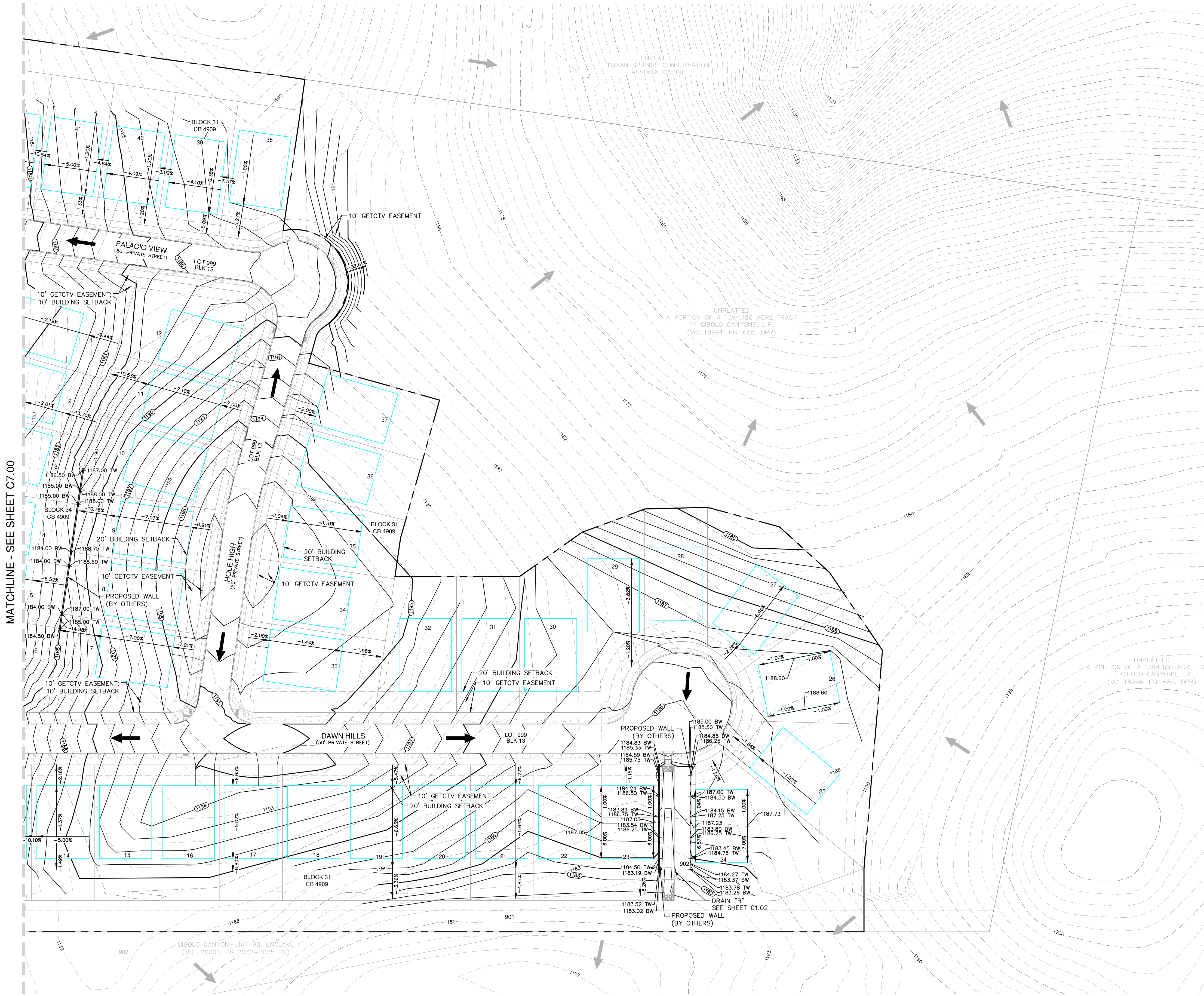
1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OF GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND STATE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
2. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORTS AND SPECIFICATIONS.
3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
4. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASES, GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
6. THE SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT OR LAND CLEARING. STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
9. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION OF ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
11. THE CONTRACTOR SHALL OBTAIN GRASSES SHOWN HEREON WITHIN +/- ONE-TENTH (0.10) FOOT.
12. IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1.0% UNLESS OTHERWISE SHOWN.
13. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
15. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR EXISTING UTILITIES. IF THE SEWER OR EXISTING APPURTENANCES, PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.
16. UTILITIES SHOWN ON THE PLANS ARE FROM INFORMATION SOURCES AVAILABLE AT THE TIME OF THE SEWER OR EXISTING APPURTENANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION AND VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES OR TREES SHALL BE REPAIRED AT THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.

ANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
OVERALL GRADING PLAN

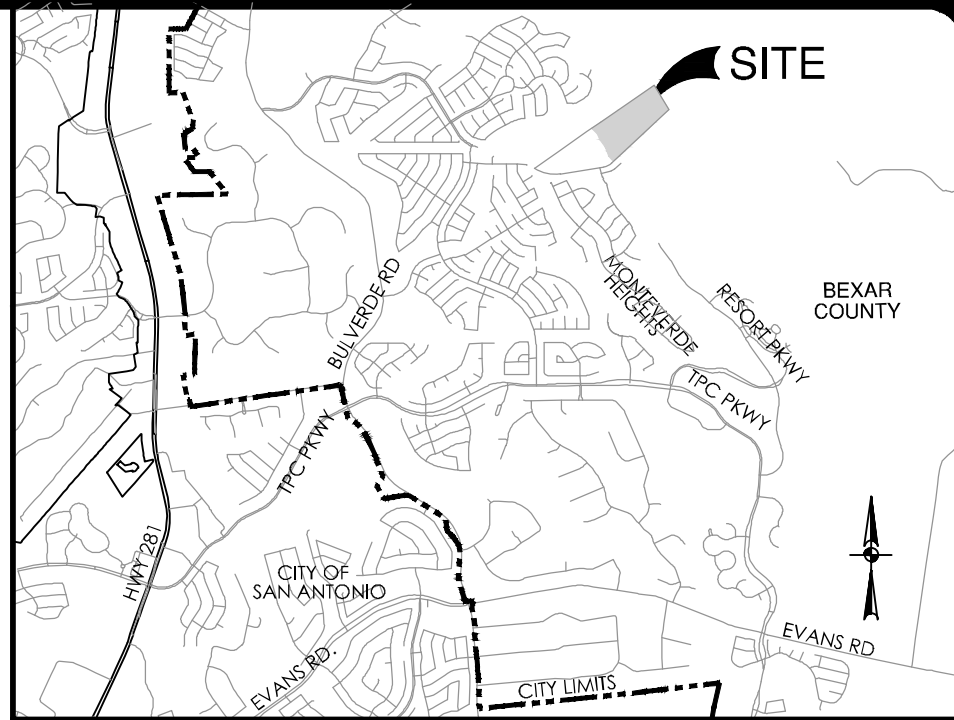
PLAT NO. 22-11800410
JOB NO. 12125-08
DATE JUNE 2023
DESIGNER CB
CHECKED BS DRAWN FP
SHEET C7.00

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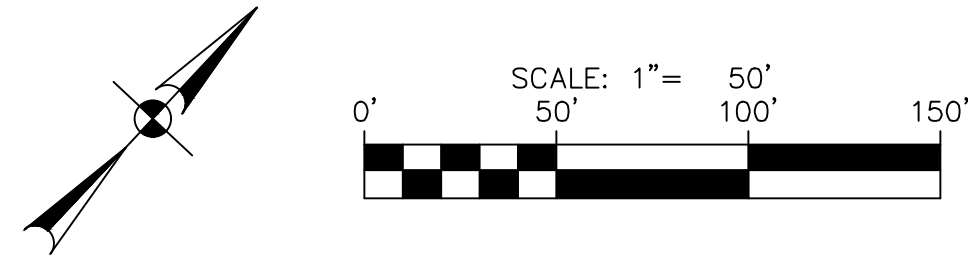
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MATCHLINE - SEE SHEET C7.00



LOCATION MAP
NOT-TO-SCALE



GRADING LEGEND

PROJECT LIMITS	---
100 YR FLOODPLAIN	---
EXISTING CONTOUR	-976-
PROPOSED CONTOUR	-970-
FLOW ARROW (EXISTING)	→
FLOW ARROW (PROPOSED)	→
MINIMUM FINISHED FLOOR ELEVATION	FF = XXXX.XX

PROPOSED WALL (BY OTHERS)

GRADING NOTES:

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TxDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
- SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
- ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
- ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND TOPSOIL. CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION, ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
- THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN +/- ONE-TENTH (0.10) FOOT.
- IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1.0% UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.
- UTILITIES SHOWN ON THE PLANS ARE FROM INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION AND VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
- POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
- FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
- NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.

PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TPE FIRM REGISTRATION #470 | TPE FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS


OVERALL GRADING PLAN

PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	JUNE 2023
DRAWN BY	CB
CHECKED BY	BS
DATE	JUNE 2023
PLAT NO.	C7.01

The map illustrates the proposed site location in San Antonio, Texas. The site is situated in the northeast quadrant, bounded by the I-35 corridor to the west, the I-10 corridor to the south, and the proposed site boundary to the east. The map also shows the City of San Antonio limits and the City of Bexar County limits. A north arrow is located in the bottom right corner.



- ## GENERAL NOTES

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD IS DETERMINED IN THE FIELD.
3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATION BY USE OF ADEQUATE FENCING, IF NECESSARY.
5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
7. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FACILITIES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR CLARITY.
8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENTS, AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE SPECIFICATIONS.
9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES OR COINCIDE WITH THE DISTURBANCE OF UPGRADE AREAS.
10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH REQUIREMENTS.
11. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, AND ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
12. WHERE VEGETATED FIELD STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FIELD STRIP.
13. SHADED AREA  DENOTES LIMITS OF DISTURBED AREAS. AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT TO BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES.
14. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN RIGHT-OF-WAY WITH TxDOT.
15. GPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THE PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR
PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM W
POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TYPE FIRM REGISTRATION 4470 | TPLS FIRM REGISTRATION #10028900

BOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS

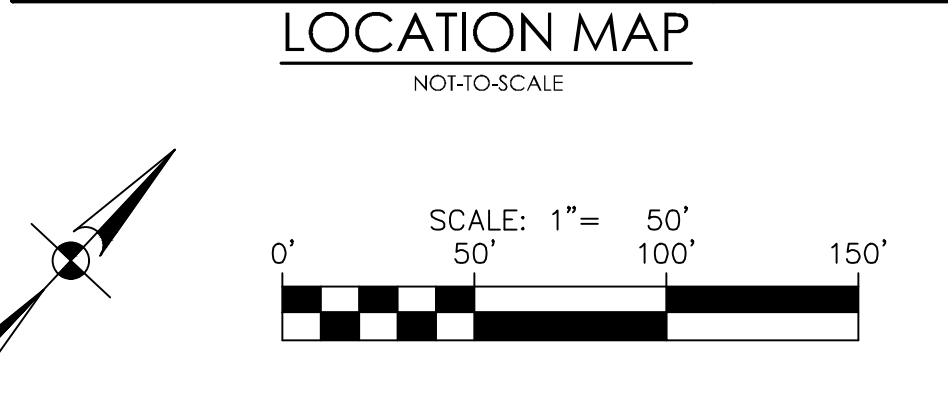
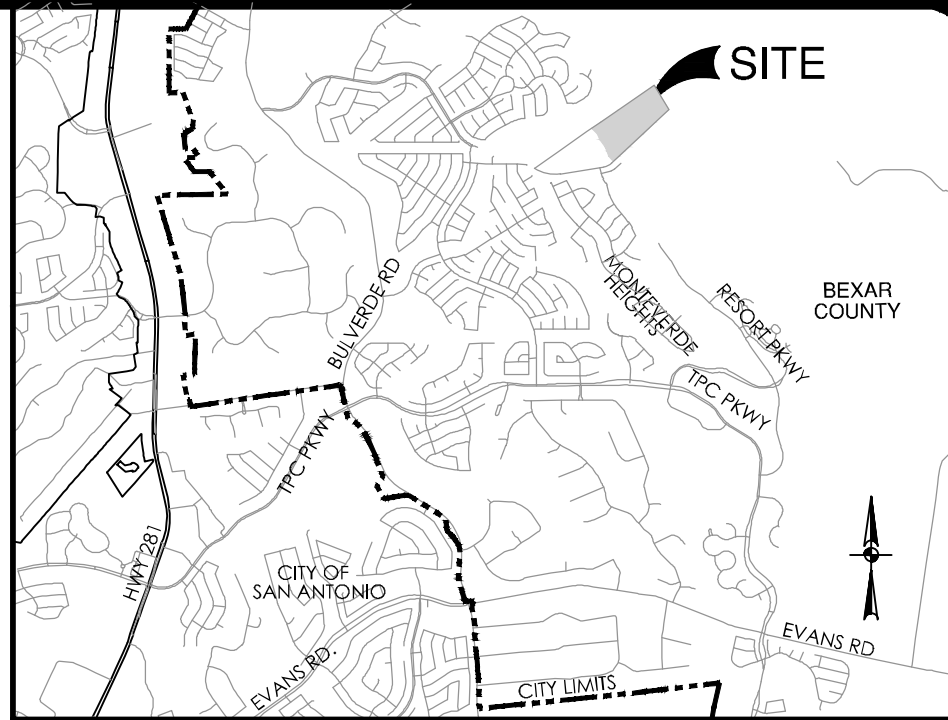
STORM WATER POLLUTION PREVENTION PLAN

PLAT NO. 22-11800410
JOB NO. 12125-08
DATE AUGUST 2022
DESIGNER AJS
CHECKED BS DRAWN FP
C8.00
SHEET



Date: Dec 20, 2022, 11:35am User: jh_ashley
File: P:\121251\SWPPP\CH\SWPPP_121251.dwg

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE UNLESS OTHERWISE NOTED. Imagery © 2016, CAPOCO, Digital Globe, Texas Orthomography Program, USDA Farm Service Agency.



GENERAL NOTES

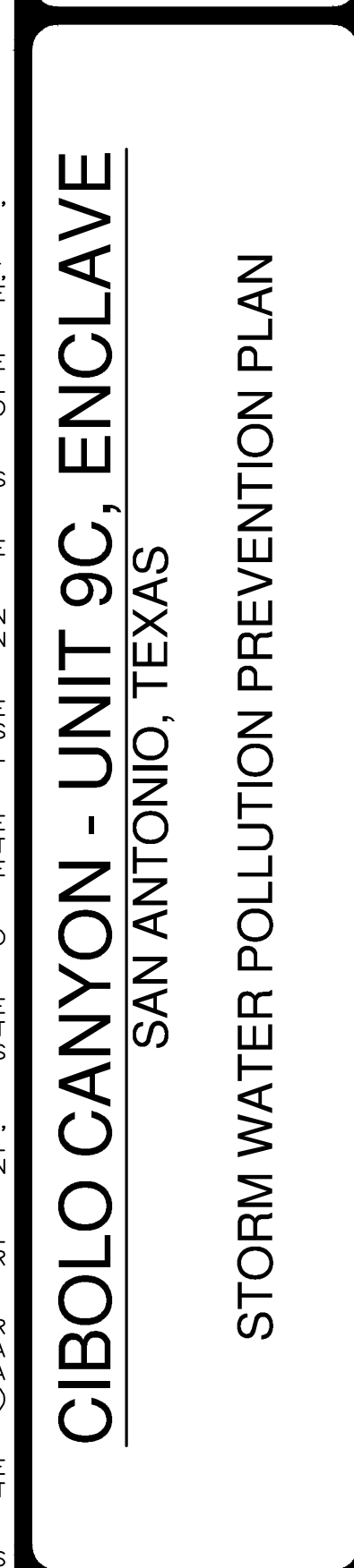
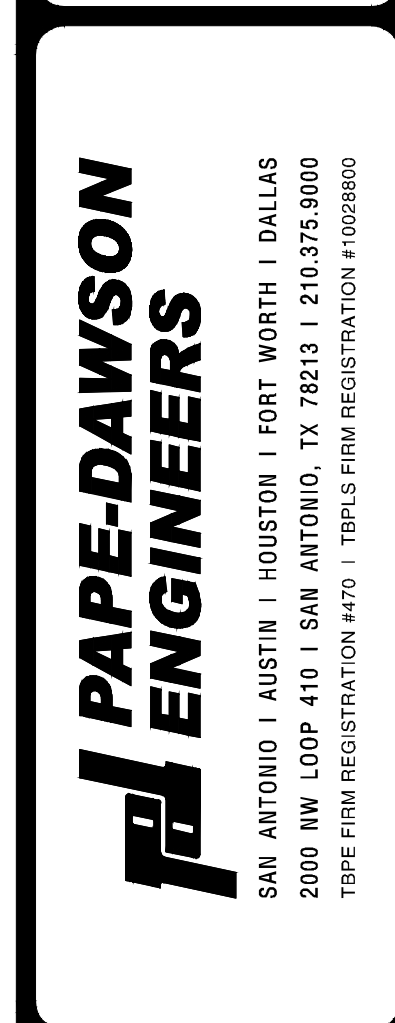
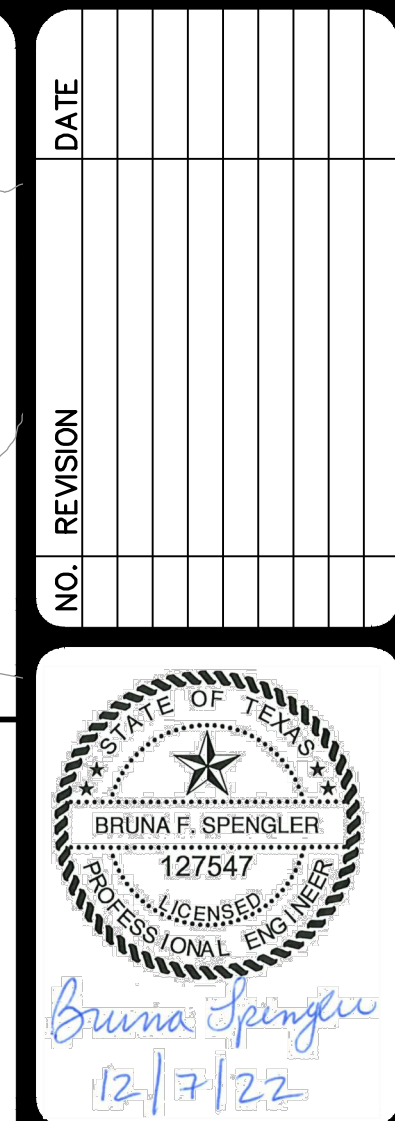
- DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
- CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
- STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
- RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
- ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
- FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
- STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
- AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
- BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.
- BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
- UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
- WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.
- SHADED AREA DENOTES LIMITS OF DISTURBED AREAS, OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES.
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TXDOT RIGHT-OF-WAY WITH TXDOT.
- CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

EXHIBIT 2

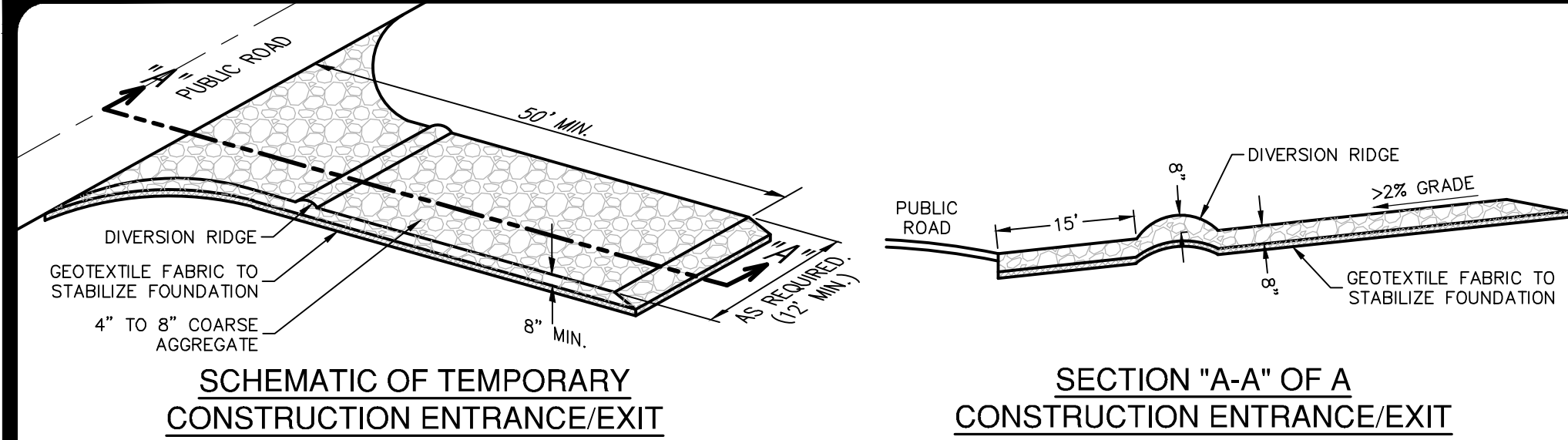
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PLAT NO. 22-11800410
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DESIGNER AJS
CHECKED BS DRAWN FP
SHEET C8.01



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SHEET C8.01

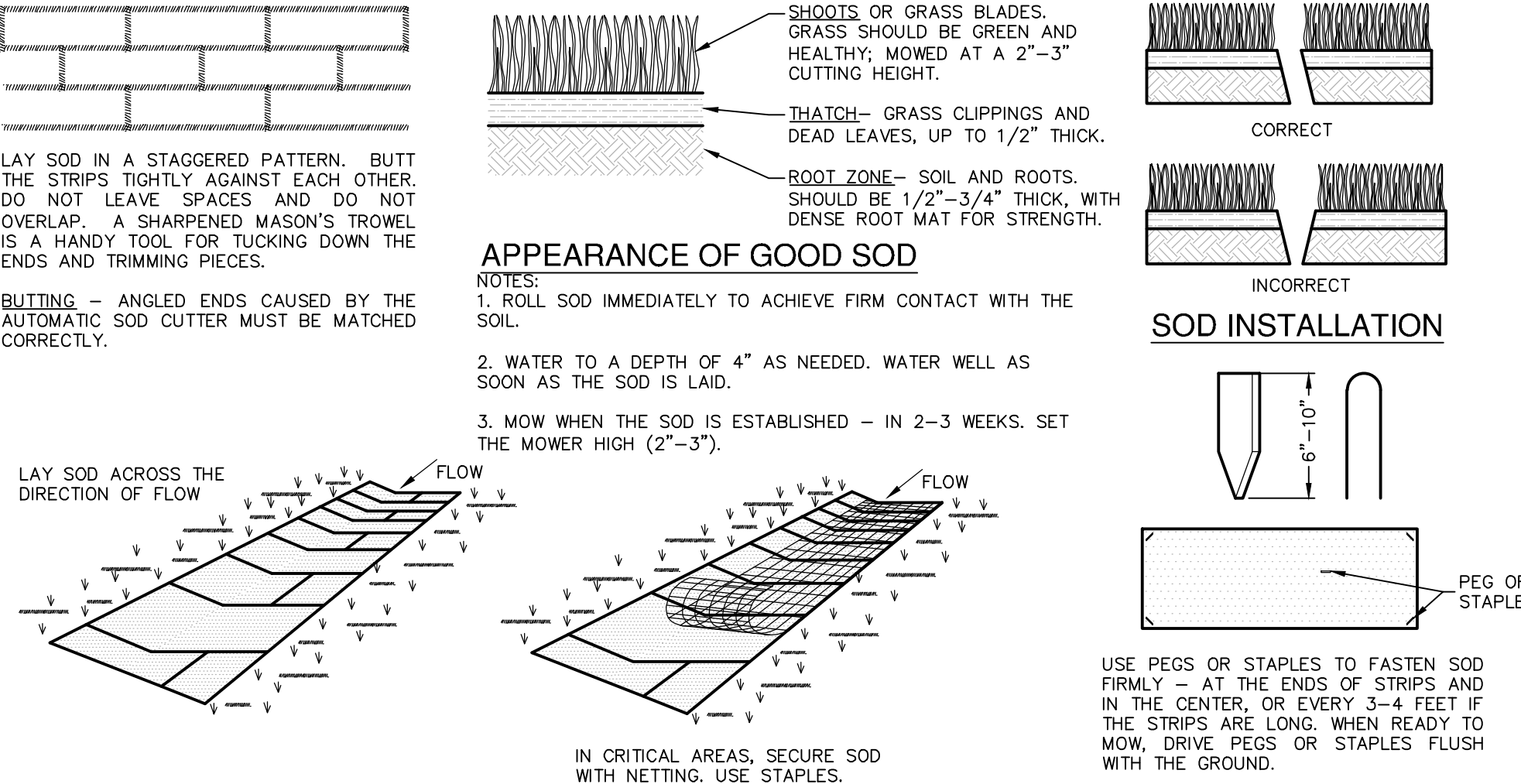


- MATERIALS**
1. THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.
 2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8-INCHES.
 3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD², A MULLEN BURST RATING OF 140 LB/IN², AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.
 4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4-INCH DIAMETER WASHED STONE OR COMMERCIAL ROCK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OR BASIN.

- INSTALLATION**
1. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
 2. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
 3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.
 4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6-INCHES TO 8-INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
 5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
 6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
 7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.
 8. INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.

STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT-TO-SCALE



- MATERIALS**
1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH (± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE SHOOT GROWTH AND THATCH.
 2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. TORN OR UNEVEN EDGES SHOULD NOT BE ACCEPTABLE.
 3. STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.
 4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

SITE PREPARATION

1. PRIOR TO SOD PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.
2. THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
3. FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

INSTALLATION IN CHANNELS

1. SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY (SEE FIGURE ABOVE).
2. AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. MESH OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

SOD INSTALLATION DETAIL

NOT-TO-SCALE

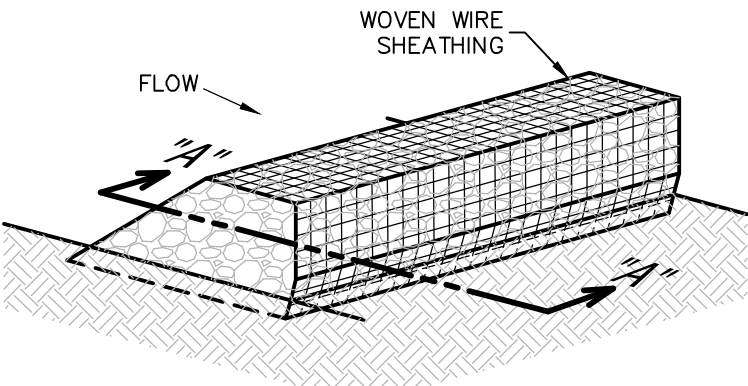
COMMON TROUBLE POINTS

1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD.
2. STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY CONDITION AS STONE IS PRESSED INTO SOIL.
3. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC-EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY.
4. PAD NOT FLARED SUFFICIENTLY AT ROAD SURFACE, RESULTS IN MUD BEING TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD.
5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER PAD AND/OR IMPROVE FOUNDATION DRAINAGE.

INSPECTION AND MAINTENANCE GUIDELINES

1. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
3. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
4. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

ISOMETRIC PLAN VIEW



ROCK BERMS

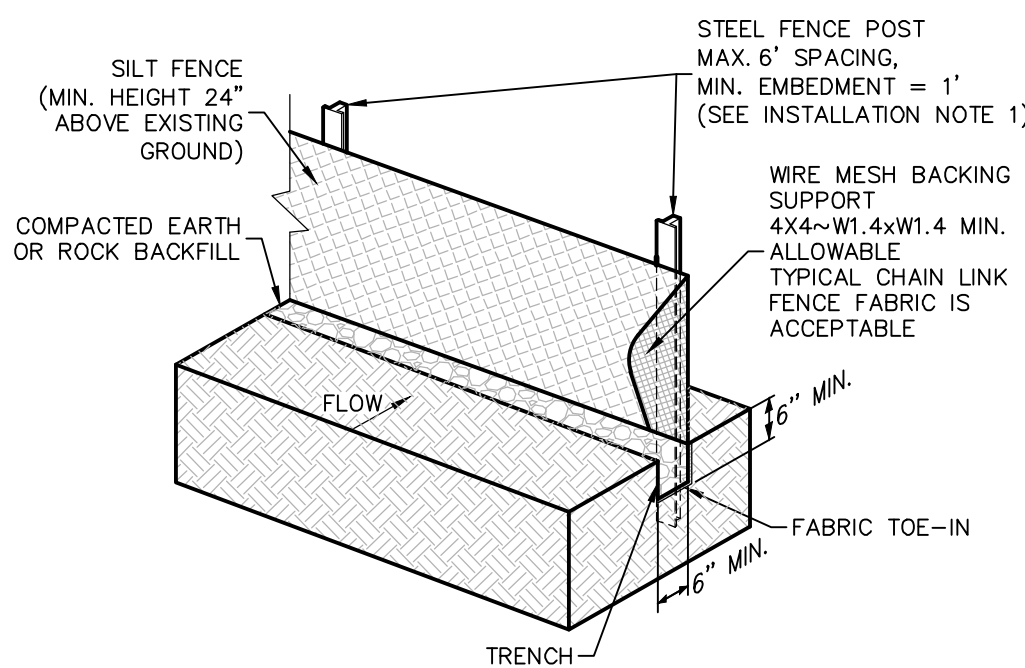
THE PURPOSE OF A ROCK BERM IS TO SERVE AS A CHECK DAM IN AREAS OF CONCENTRATED FLOW, TO INTERCEPT SEDIMENT-LADEN RUNOFF, DETAIN THE SEDIMENT AND RELEASE THE WATER IN SHEET FLOW. THE ROCK BERM SHOULD BE USED WHEN THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 5 ACRES. ROCK BERMS ARE USED IN AREAS WHERE THE VOLUME OF RUNOFF IS TOO GREAT FOR A SILT FENCE TO CONTAIN. THEY ARE LESS EFFECTIVE FOR SEDIMENT REMOVAL THAN SILT FENCES, PARTICULARLY FOR FINE PARTICLES, BUT ARE ABLE TO WITHSTAND HIGHER FLOWS THAN A SILT FENCE AS SUCH. ROCK BERMS ARE OFTEN USED IN AREAS OF CHANNEL FLOWS (DITCHES, GULLIES, ETC.). ROCK BERMS ARE MOST EFFECTIVE AT REDUCING BED LOAD IN CHANNELS AND SHOULD NOT BE SUBSTITUTED FOR OTHER EROSION AND SEDIMENT CONTROL MEASURES FARTHER UP THE WATERSHED.

INSPECTION AND MAINTENANCE GUIDELINES

1. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE.
2. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT WILL NOT CAUSE ANY ADDITIONAL SILTATION.
3. REPAIR ANY LOOSE WIRE SHEATHING.
4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
5. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.

ROCK BERM DETAIL

NOT-TO-SCALE



ISOMETRIC PLAN VIEW

SILT FENCE

A SILT FENCE IS A BARRIER CONSISTING OF GEOTEXTILE FABRIC SUPPORTED BY METAL POSTS TO PREVENT SOIL AND SEDIMENT LOSS FROM A SITE. WHEN PROPERLY USED, SILT FENCES CAN BE HIGHLY EFFECTIVE AT CONTROLLING SEDIMENT FROM DISTURBED AREAS. THEY CAUSE RUNOFF TO POND, ALLOWING HEAVIER SOLIDS TO SETTLE OUT. IF NOT PROPERLY INSTALLED, SILT FENCES ARE NOT LIKELY TO BE EFFECTIVE.

THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER-BORN SEDIMENT FROM UNPROTECTED AREAS OF A LIMITED EXTENT. SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION, CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING A ROCK BERM IN THE AREAS OF CONCENTRATED FLOW.

SILT FENCING WITHIN THE SITE MAY BE TEMPORARILY MOVED DURING THE DAY TO ALLOW CONSTRUCTION ACTIVITY PROVIDED IT IS REPLACED AND PROPERLY ANCHORED TO THE GROUND AT THE END OF THE DAY. SILT FENCES ON THE PERIMETER OF THE SITE OR AROUND DRAINAGE WAYS SHOULD NOT BE MOVED AT ANY TIME.

MATERIALS

1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN², ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.
2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM WEIGHT 1.25 LB/FT, AND BRINELL HARDNESS EXCEEDING 140.
3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

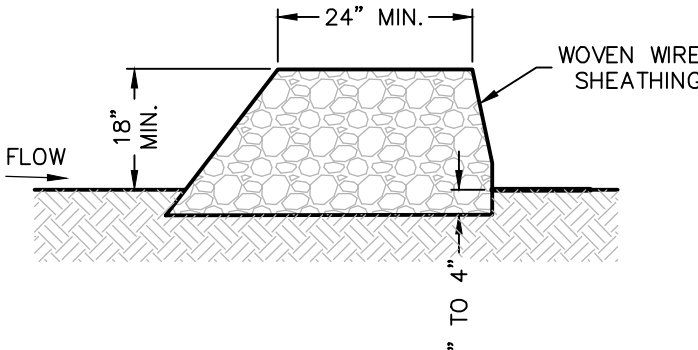
INSTALLATION

1. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER, WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.
2. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS ¼ ACRE/100 FEET OF FENCE.

SILT FENCE DETAIL

NOT-TO-SCALE

SECTION "A-A"



MATERIALS

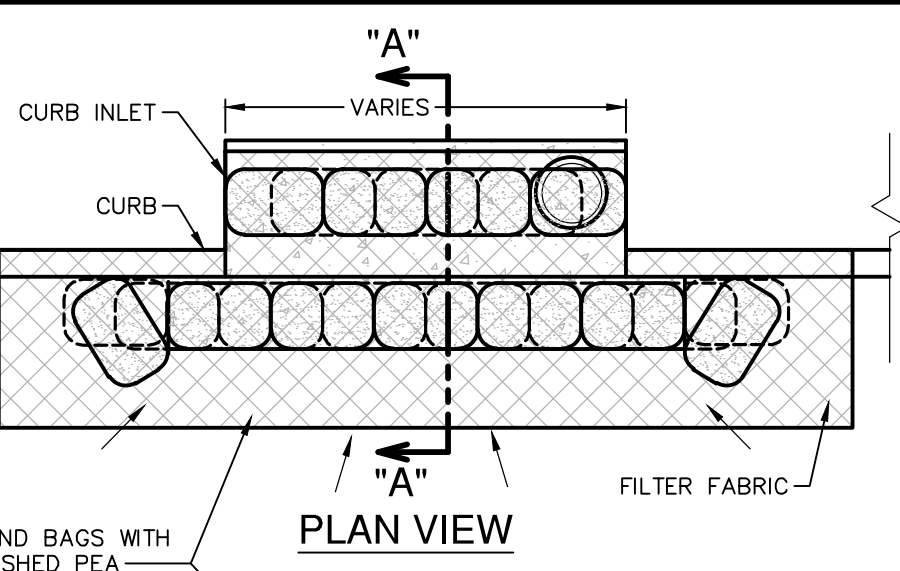
1. THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.
2. CLEAN, OPEN GRADED 3-INCH TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-INCH TO 8-INCH DIAMETER ROCKS MAY BE USED.

INSTALLATION

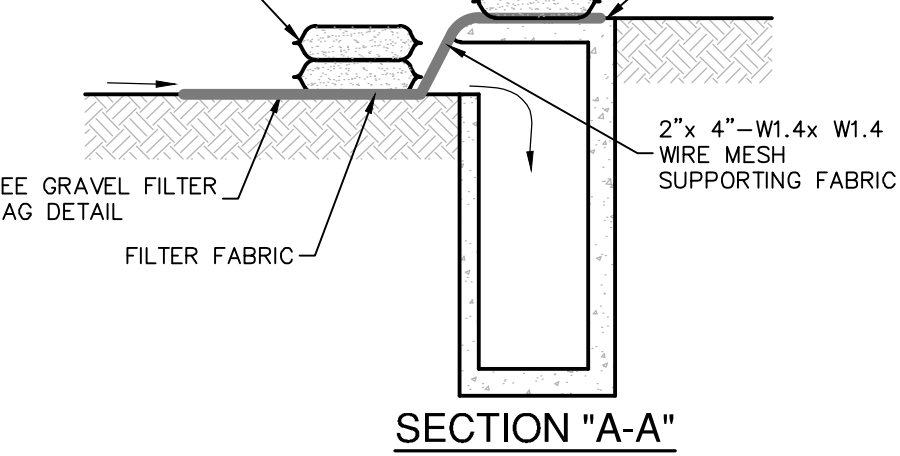
1. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE. THE SHEATHING SHOULD BE 20 GAUGE WOVEN WIRE MESH WITH 1 INCH OPENINGS.
2. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.
3. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM TO A HEIGHT NOT LESS THAN 18".
4. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.
5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.
6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

COMMON TROUBLE POINTS

1. INSUFFICIENT BERM HEIGHT OR LENGTH (RUNOFF QUICKLY ESCAPES OVER THE TOP OR AROUND THE SIDES OF BERM).
2. BERM NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND ONE SIDE).



PLAN VIEW



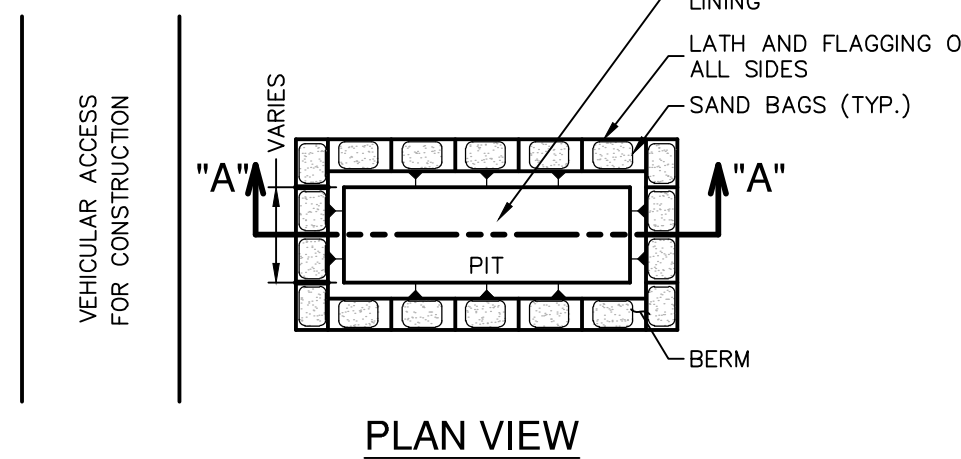
SECTION "A-A"

GENERAL NOTES

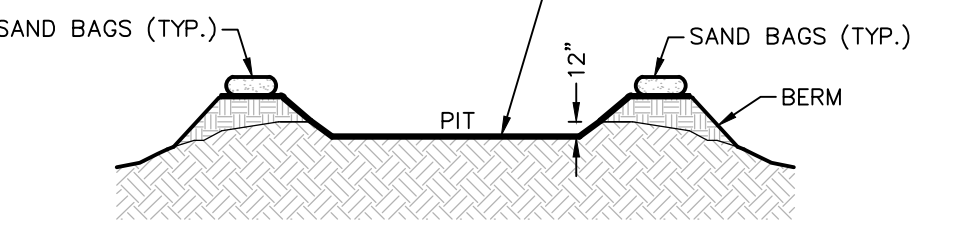
1. CONTRACTOR TO INSTALL 2"x4"-W1.4xW1.4 WIRE MESH SUPPORTING FILTER FABRIC OVER THE INLET OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR WIRE TIES AT THIS LOCATION. SAND BAGS FILLED WITH WASHED PEA GRAVEL SHOULD BE PLACED ON TOP OF WIRE MESH ON TOP OF THE INLET AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SANDBAGS FILLED WITH WASHED PEA GRAVEL SHOULD ALSO BE PLACED ALONG THE GUTTER AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SAND BAGS TO BE STACKED TO FORM A CONTINUOUS BARRIER AROUND INLETS.
2. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.
3. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND CURB.
4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING.
5. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

BAGGED GRAVEL CURB INLET PROTECTION DETAIL

NOT-TO-SCALE



PLAN VIEW



SECTION "A-A"

GENERAL NOTES

1. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.
4. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES OR WATER BODIES.
5. TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

MATERIALS

PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

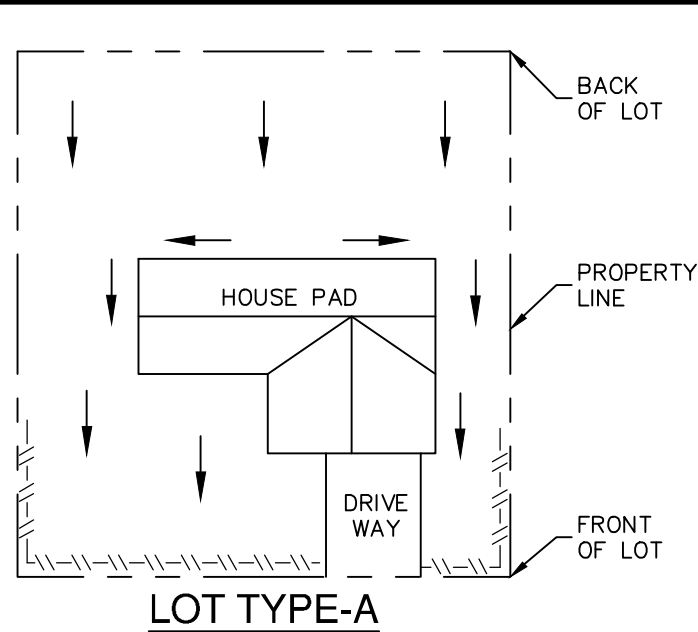
MAINTENANCE

1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF.
2. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.
3. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

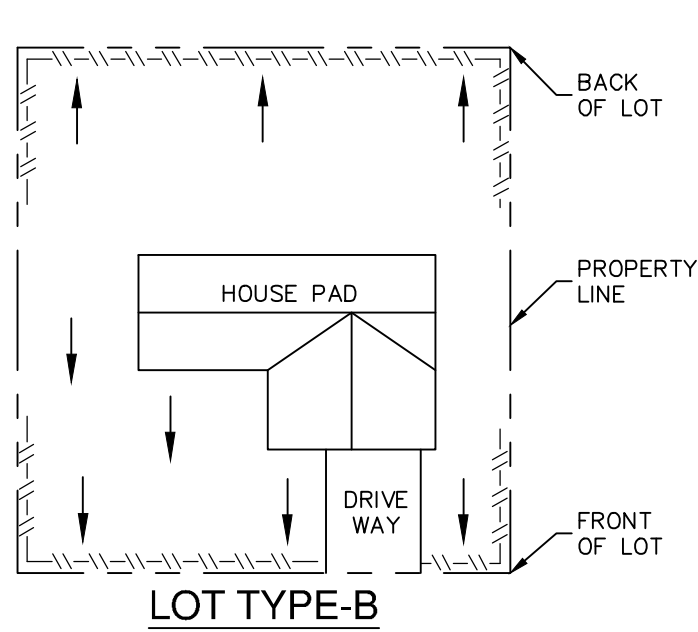
CONCRETE TRUCK WASHOUT

PIT DETAIL

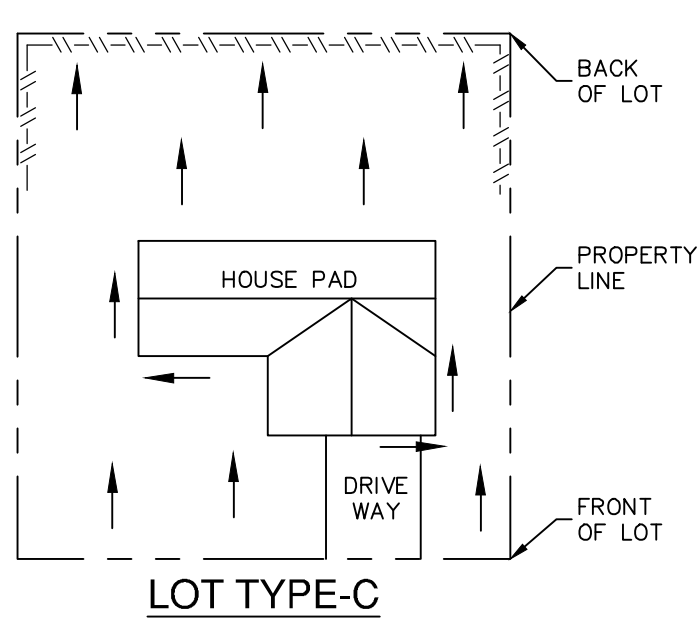
NOT-TO-SCALE



LOT TYPE-A



LOT TYPE-B



LOT TYPE-C

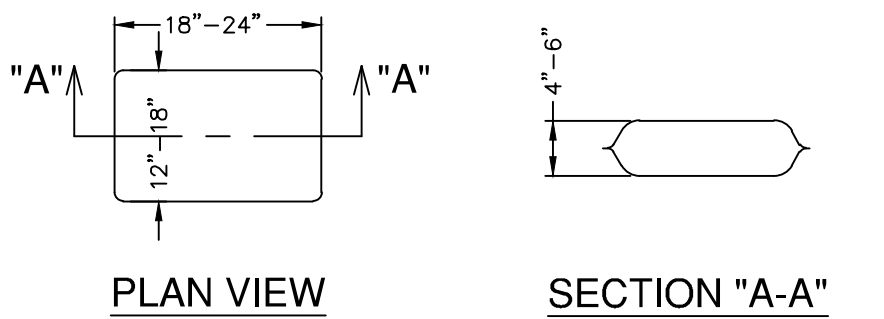
NOTE: SILT FENCE TO BE INSTALLED PER THESE DETAILS AND LOCATED ON THE DOWNDRAIN SIDE OF EACH LOT LINE OR LIMITS OF CLEARING AS GENERALLY SHOWN ON THE OVERALL SITE PLAN.

LEGEND

--- SILT FENCE DRAINAGE FLOW

TYPICAL HOUSE LOT LAYOUTS

NOT-TO-SCALE



PLAN VIEW

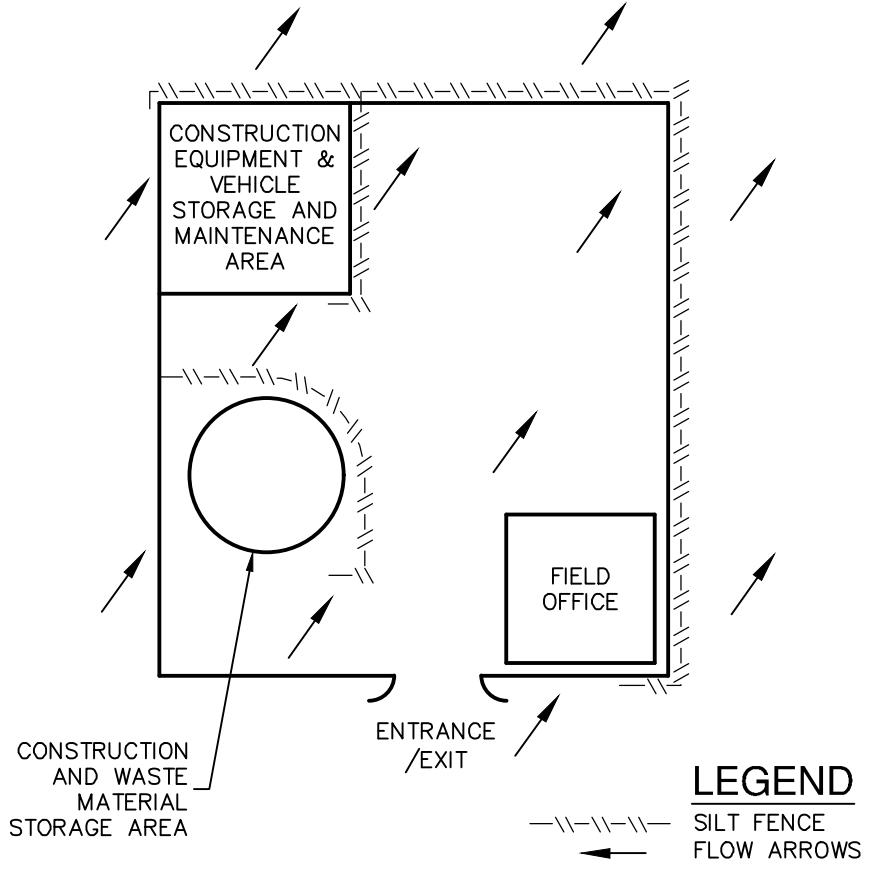
SECTION "A-A"

NOTES:
1. THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE, POLYETHYLENE WOVEN FABRIC, MIN. UNIT WEIGHT OF 4 OUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.

2. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER).
3. SAND SHALL NOT BE USED TO FILL THE FILTER BAGS.

GRAVEL FILTER BAG DETAIL

NOT-TO-SCALE



LEGEND

--- SILT FENCE FLOW ARROWS

CONSTRUCTION STAGING AREA

NOT-TO-SCALE

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

EXHIBIT 3

DATE	
NO.	
REVISION	



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TYPE FIRM REGISTRATION #470 | TPELIS FIRM REGISTRATION #1008860

CIBOLO CANYON - UNIT 9C, ENCLAVE
SAN ANTONIO, TEXAS
STORM WATER POLLUTION PREVENTION DETAILS

PLAT NO.	22-11800410
JOB NO.	12125-08
DATE	AUGUST 2022
DESIGNER	AJS
CHECKED	BS
DRAWN	FP
SHEET	C8.02