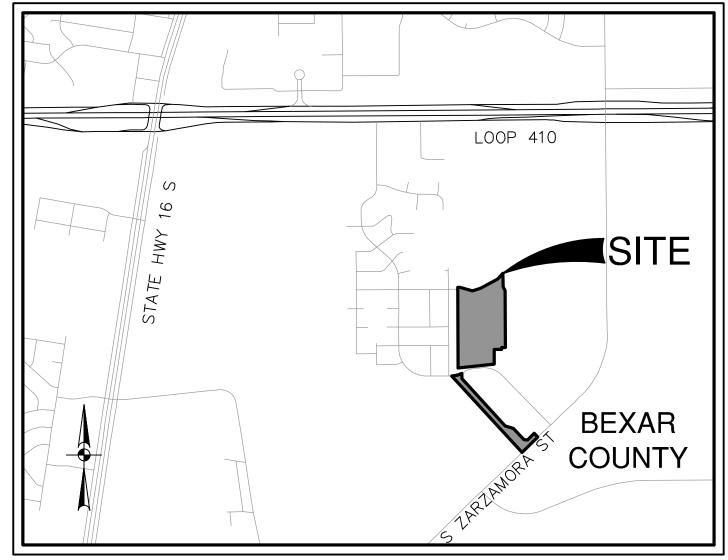
SMILEY TRACT UNIT 1 SAN ANTONIO, TEXAS **CIVIL CONSTRUCTION PLANS** t No.

SHEET INDEX

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WATER DISTRIBUTION PLAN DETAILS C4.1 WATER DISTRIBUTION PLAN NOTES C4.1	
OVERALL SANITARY SEWER PLAN C5.0	
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SEWER LINE A ~ STA. 12+00.00 TO END C5.0	-
SEWER LINE B ~ STA. 1+00.00 TO END C5.0	
SEWER LINE D ~ STA. 1+00.00 TO END C5.0	-
SANITARY SEWER DETAILS C5.1	
SANITARY SEWER NOTES C5.1	-
OVERALL UTILITY PLAN	-
OVERALL GRADING PLAN C7.0	
STORM WATER POLLUTION PREVENTION PLAN C8.0	-
STORM WATER POLLUTION PREVENTION PLAN DETAILS C8.1	

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 © 2015,CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service A



LOCATION MAP NOT-TO-SCALE

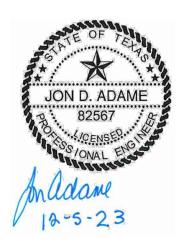
PREPARED FOR:

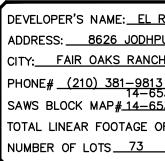
EL RANCHO SONRISA, LLC 8626 JODHPUR FAIR OAKS RANCH, TX 78015

AUGUST 2023



ORT WORTH | DALLA 2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000 TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION #10028800





WATER (SAWS PRESSURE ZONE 790 HGL)

RANCHO SONRISA, LLC	
PUR	
HSTATE:TEXA	S ZIP: <u>78015</u>
DF PIPE: <u>8"-3,794 LF</u>	6 & TOTAL_ACREAGE_ <u>18.19</u> PLAT_NO <u>22–1180048</u> 2 D22–1192

SEWER

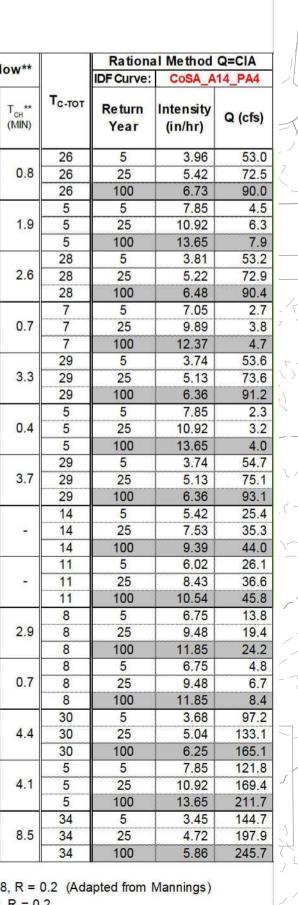
ADDRESS: <u>8626 JODHPUR</u> CITY: <u>FAIR OAKS RANCH</u> STATE: <u>TX</u> ZIP: <u>78015</u> PHONE# (210) <u>381–9813</u> FAX# <u>148538 & 143586 & 146536</u> SAWS BLOCK MAP# <u>146538</u> TOTAL EDU'S <u>73</u> TOTAL ACREAGE <u>18.19</u> TOTAL LINEAR FOOTAGE OF PIPE: <u>8" – 2977 LF</u> PLAT NO. <u>22–1180048</u> NUMBER OF LOTS <u>73</u> SAWS JOB NO. <u>22–1688</u>	DEVELOPER'S NAME: EL RANG	CHO SONRI	SA, LLC		
PHONE# <u>(210) 381–9813</u> FAX# 148538 & 143586 & 146536 SAWS BLOCK MAP <u># 146538</u> TOTAL EDU'S <u>73</u> TOTAL ACREAGE <u>18.19</u> TOTAL LINEAR FOOTAGE OF PIPE: <u>8" – 2977 LF</u> PLAT NO. <u>22–1180048</u>	ADDRESS: <u>8626 JODHPUR</u>				
TOTAL LINEAR FOOTAGE OF PIPE: <u>8" – 2977 LF</u> PLAT NO. <u>22–1180048</u>	CITY: FAIR OAKS RANCH	_STATE:_	ТХ	ZIP:	78015
TOTAL LINEAR FOOTAGE OF PIPE: <u>8" – 2977 LF</u> PLAT NO. <u>22–1180048</u>	PHONE# (210) 381-9813		_FAX#		
	SAWS BLOCK MAP <u># 146538</u>	TOTAL EDU	s <u>73</u>	TOTAL ACF	REAGE <u>18.19</u>
NUMBER OF LOTS 73 SAWS JOB NO. 22-1688	TOTAL LINEAR FOOTAGE OF PI	PE: <u>8" — 2</u>	<u>2977 LF</u>	PLAT NO. <u>22</u>	2–11800482
	NUMBER OF LOTS 73	SAWS	JOB NO.	22-1688	

C0.00 SHEET

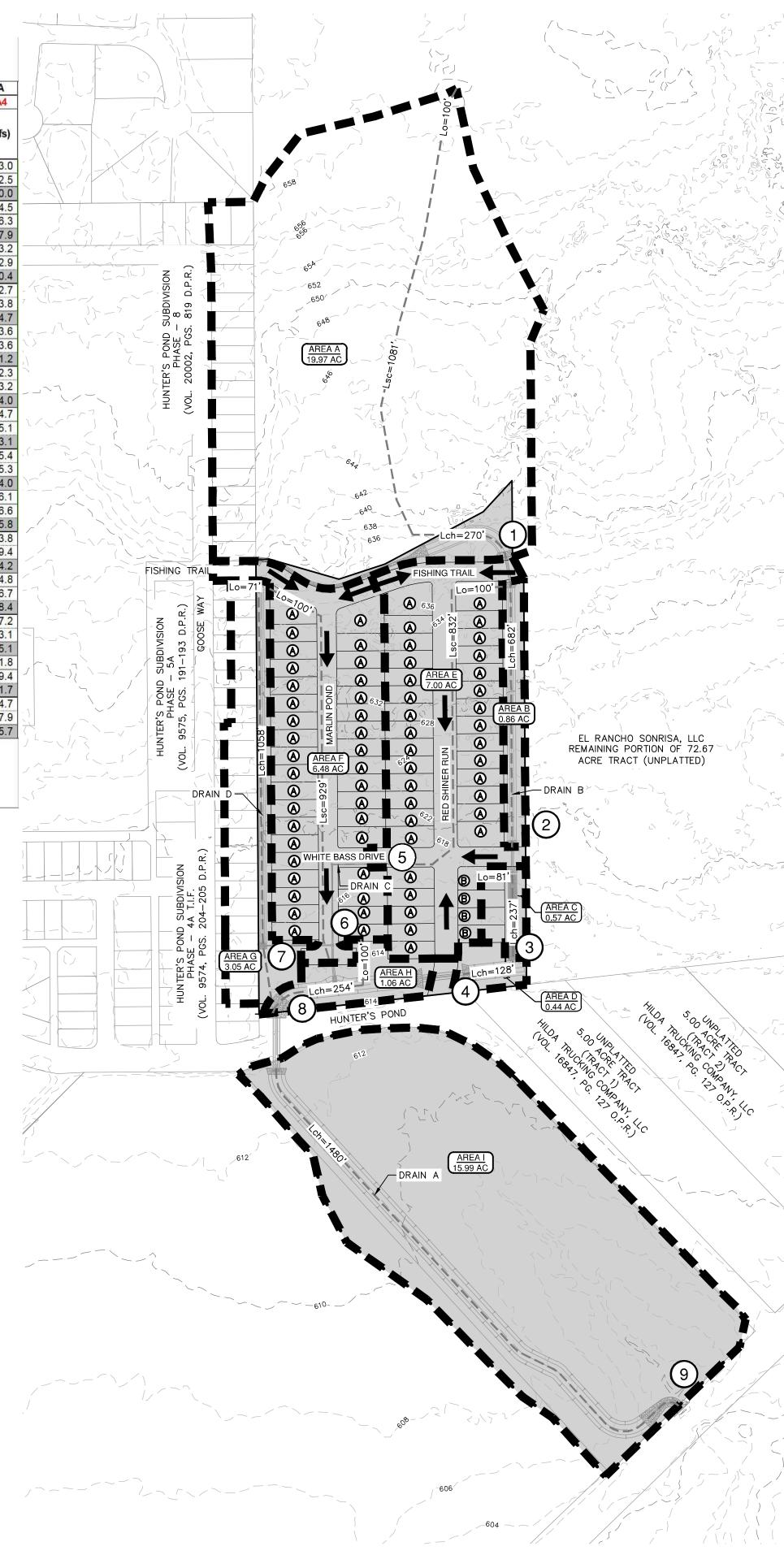
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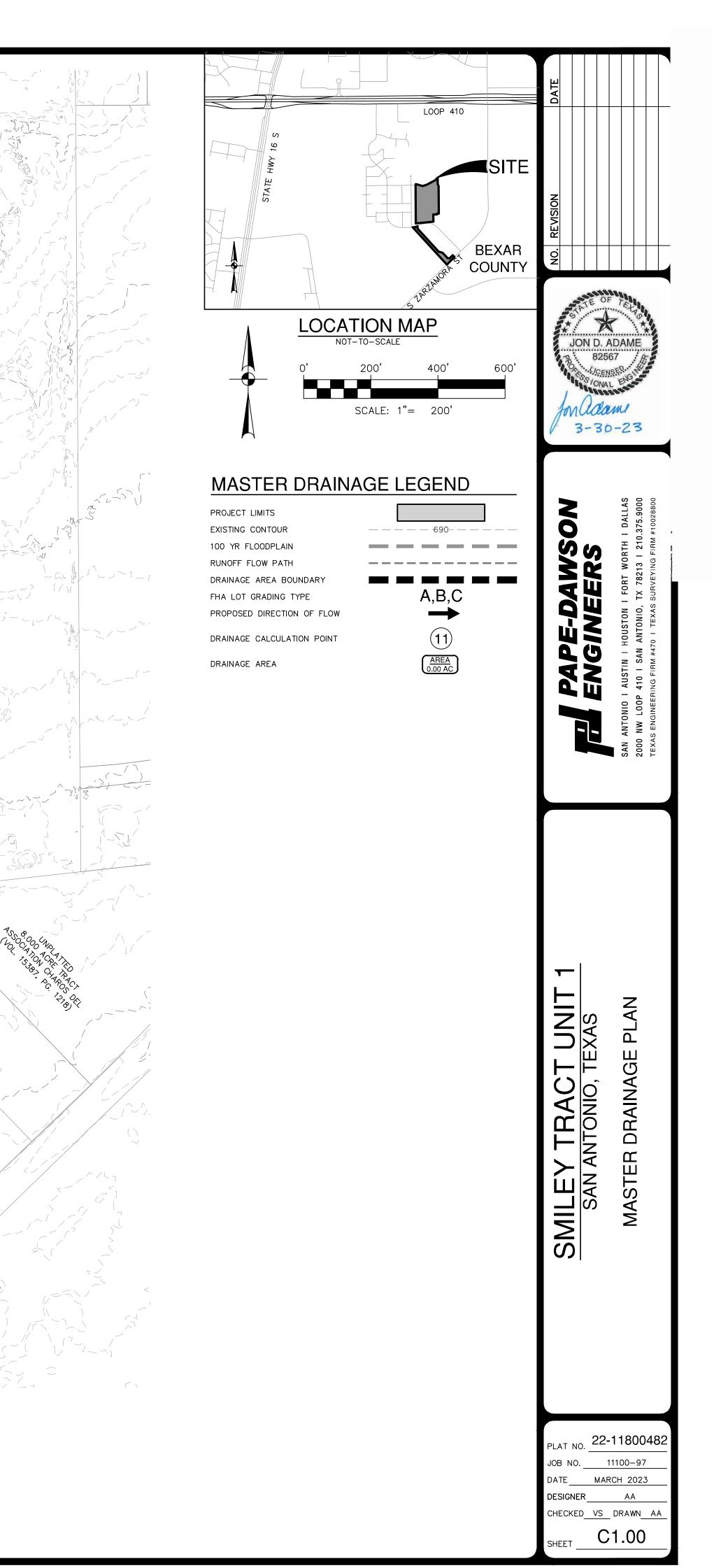
		Drainage	Areas		th (ft)	0	verland	Sheet F	low (TR-	55)	Shallo	w Con	centrate	d Flow	- 1**	Channel	ized F	lov
Ref. Point	Structure / Description	#	Area (Ac)	С	Total Flowpath (ft)	L _o (FT)	n	P ₂	S _o (ft/ft)	т _о * (М I N)	L _{sc} (FT)	Condition***	Slope (ft/ft)	V _{sc} (FPS)	T _{sc} ** (MIN)	L _{CH} (FT)	V _{CH} (FPS)	T. (N
1	CULVERT	А	19.97	0.67	1,451	100	0.400	4.44	0.020	18	1,081	U	0.020	2.3	7.9	270	6.0	
		В	0.86	0.67	682	-	-	-	-	-	-	-	-	-		682	6.0	3
2	CULVERT	A+B	20.83	0.67	2,133	100	0.400	4.44	0.020	18	1,081	U	0.020	2.3	7.9	952	6.0	č
		С	0.57	0.67	318	81	<mark>0.150</mark>	4.44	0.020	7	-	-	-	-	-	237	6.0	
3	CULVERT	A+B+C	21.40	0.67	2,370	100	0.400	4.44	0.020	18	1,081	U	0.020	2.3	7.9	1,189	6.0	
		D	0.44	0.67	128	_			-	-	-	-	-	-	-	128	6.0	
4	CULVERT	A+B+C+D	21.84	0.67	2,498	100	0.400	4.44	0.020	18	1,081	U	0.020	2.3	7.9	1,317	6.0	
5	CURB INLET - IN SAG	E	7.00	0.67	<mark>93</mark> 2	100	0.150	4.44	0.016	9	832	Ρ	0.013	2.3	5.9	-	-	
6	CURB INLET - IN SAG	F	6.48	0.67	1,029	100	<mark>0.150</mark>	<mark>4.</mark> 44	0.041	6	929	Ρ	0.019	2.8	5.6	-	-)
7	4-WAY INLET	G	3.05	0.67	1,129	71	<mark>0.150</mark>	4.44	0.020	6	-	-	-	-	-	1,058	6.0	
		н	1.06	0.67	354	100	0.150	4.44	0.020	8	-	-	-	-	-	254	6.0	
8	CULVERT	A+B+C+D+E+F+G+H	39.43	0.67	2,752	100	0.400	4.44	0.020	18	1,081	U	0.020	2.3	7.9	1,571	6.0	
		I	<mark>15.99</mark>	0.97	1,480		-	-	-	-	-	-	-	-	-	1,480	6.0	3
9		A+B+C+D+E+F+G+H +I	55.42	0.76	4,232	100	0.400	4.44	0.020	18	<mark>1,081</mark>	U	0.020	2.3	7.9	3,051	6.0	
*Seelye	Chart or TR-55 E	of Concentration qn. 3-3 nnings or TR-55 Figure	3-1 or 6 ft/s	5	u		R-55 Equ (0.007(<i>n</i>) (<i>P</i> 2 ^{.5} *)				v =	$=\frac{k}{n}R^{2/2}$	igure 3-1 $S_{3}S_{o}^{1/2}$ $ft^{1/3}/s$	**	P: For U: For	Streets: n Paved: n = Unpaved: Default: v	= 0.025 n = 0.0	i, R 15,

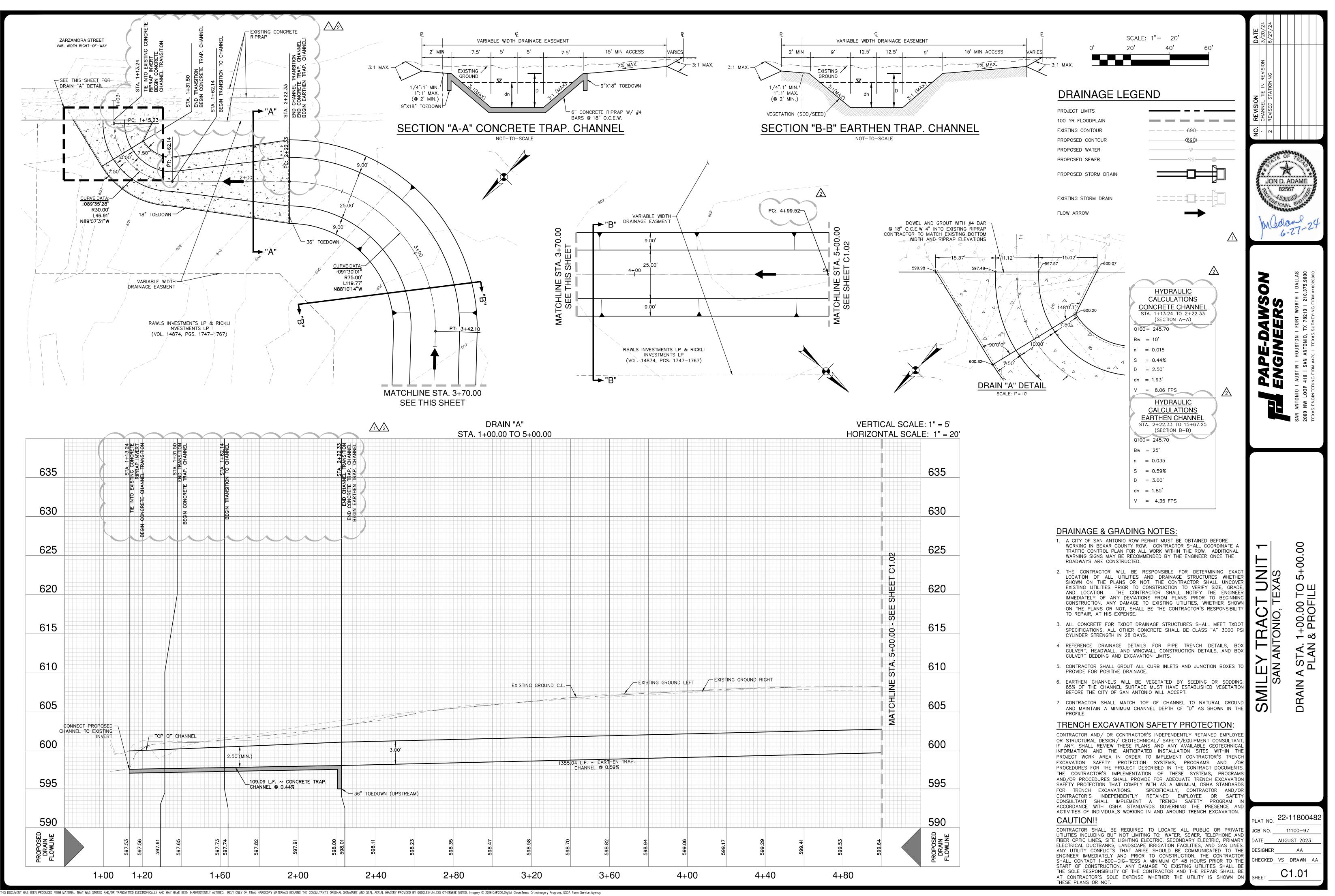
Proposed Conditions Calculations



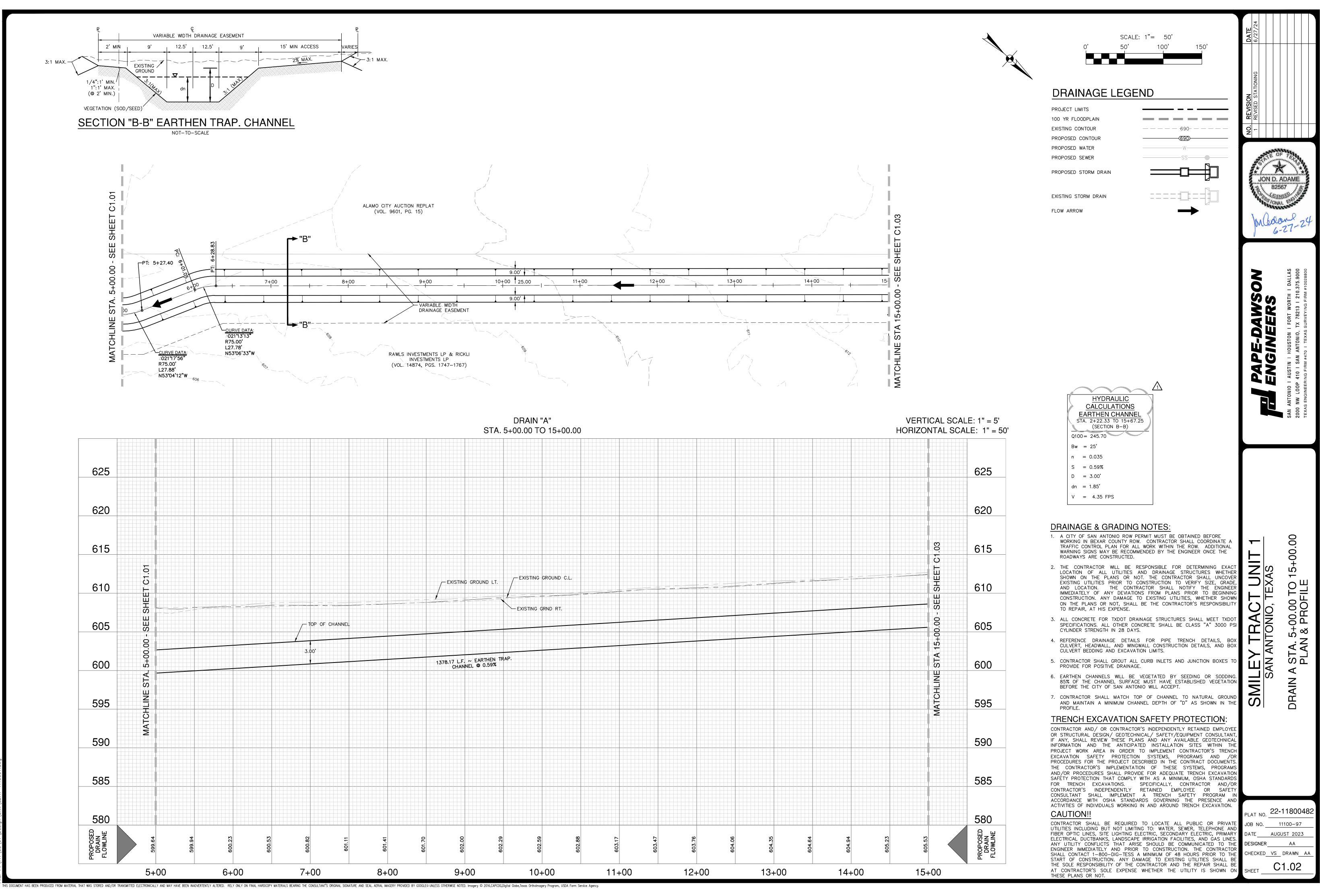
5, R = 0.2 05, R = 0.4

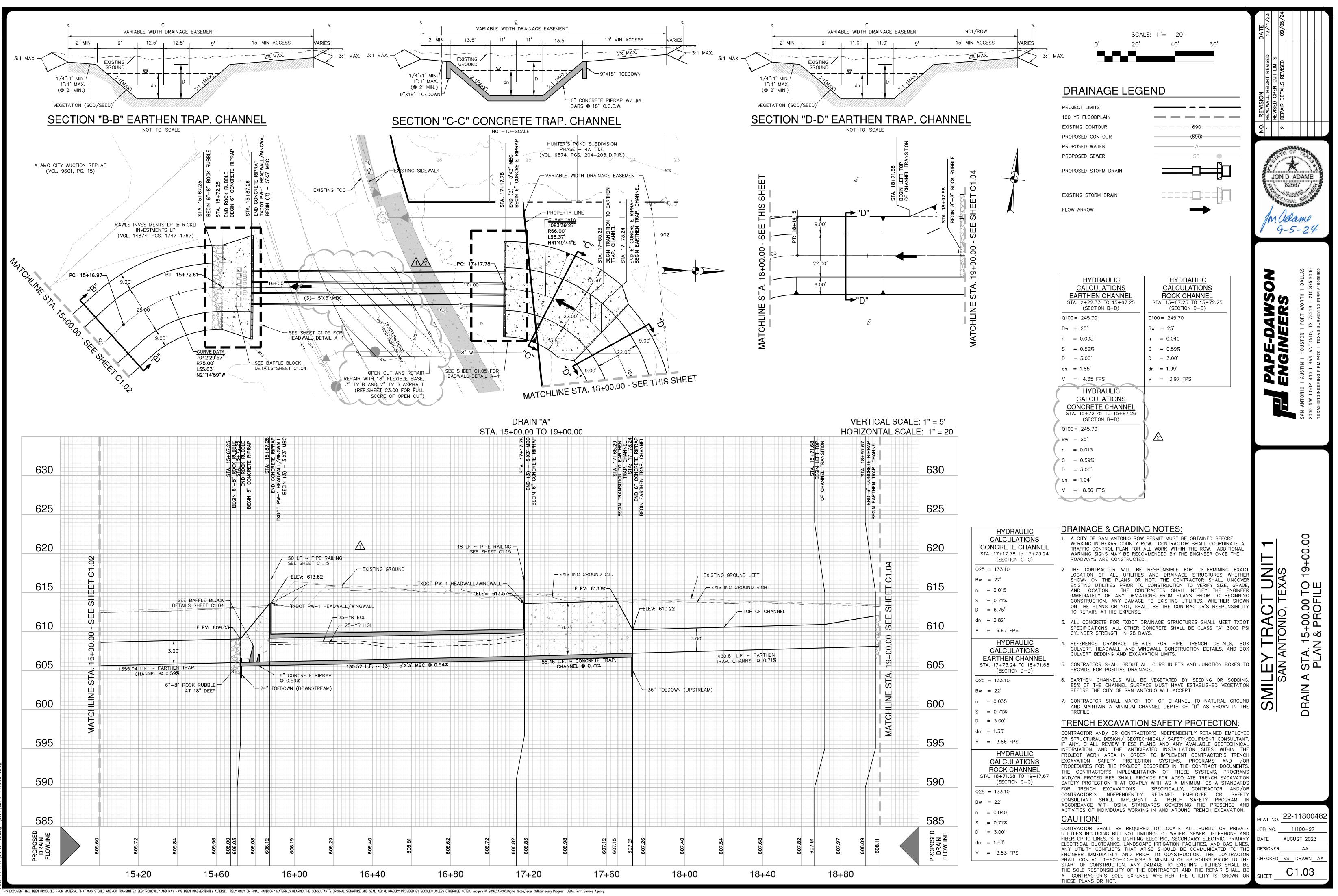


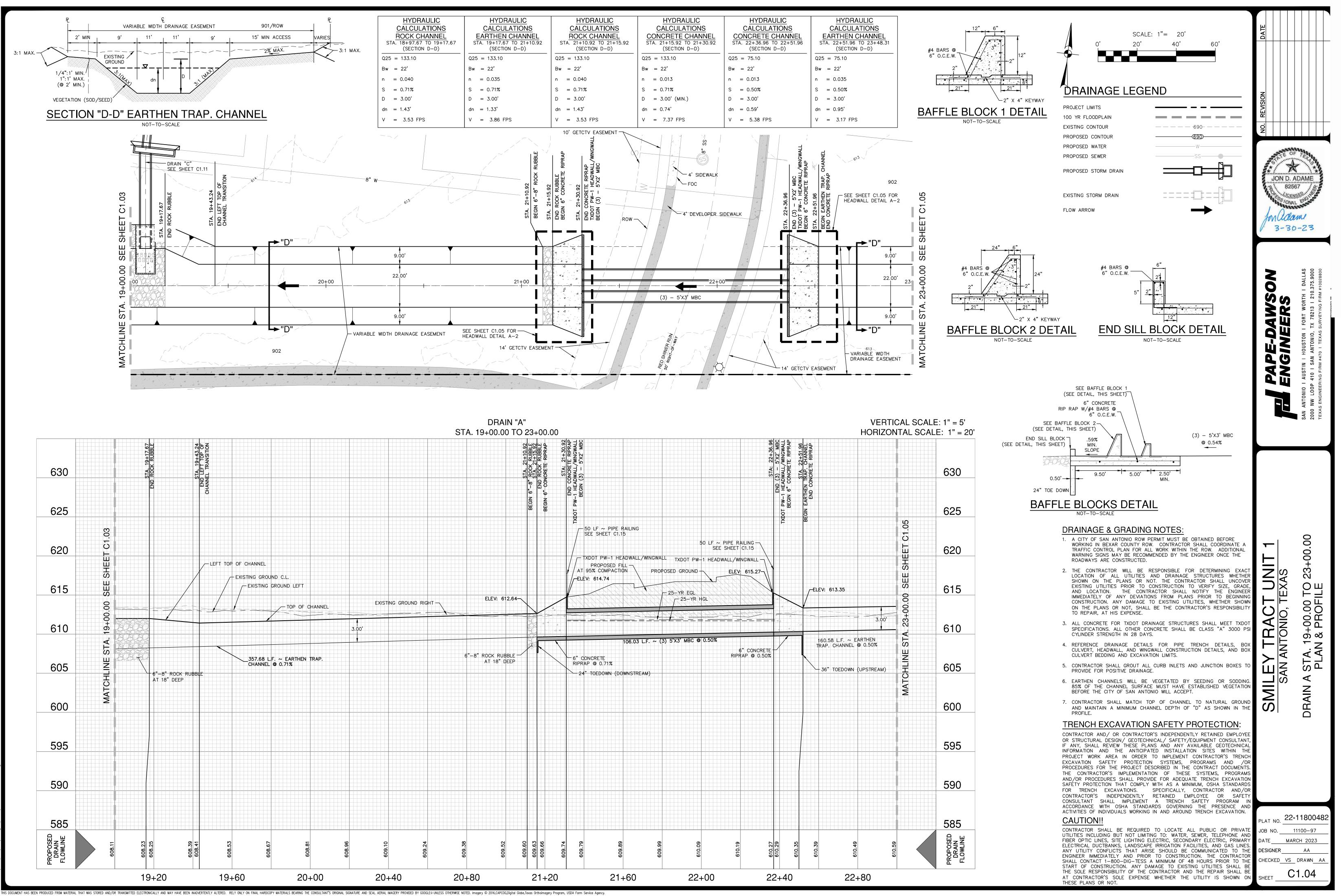




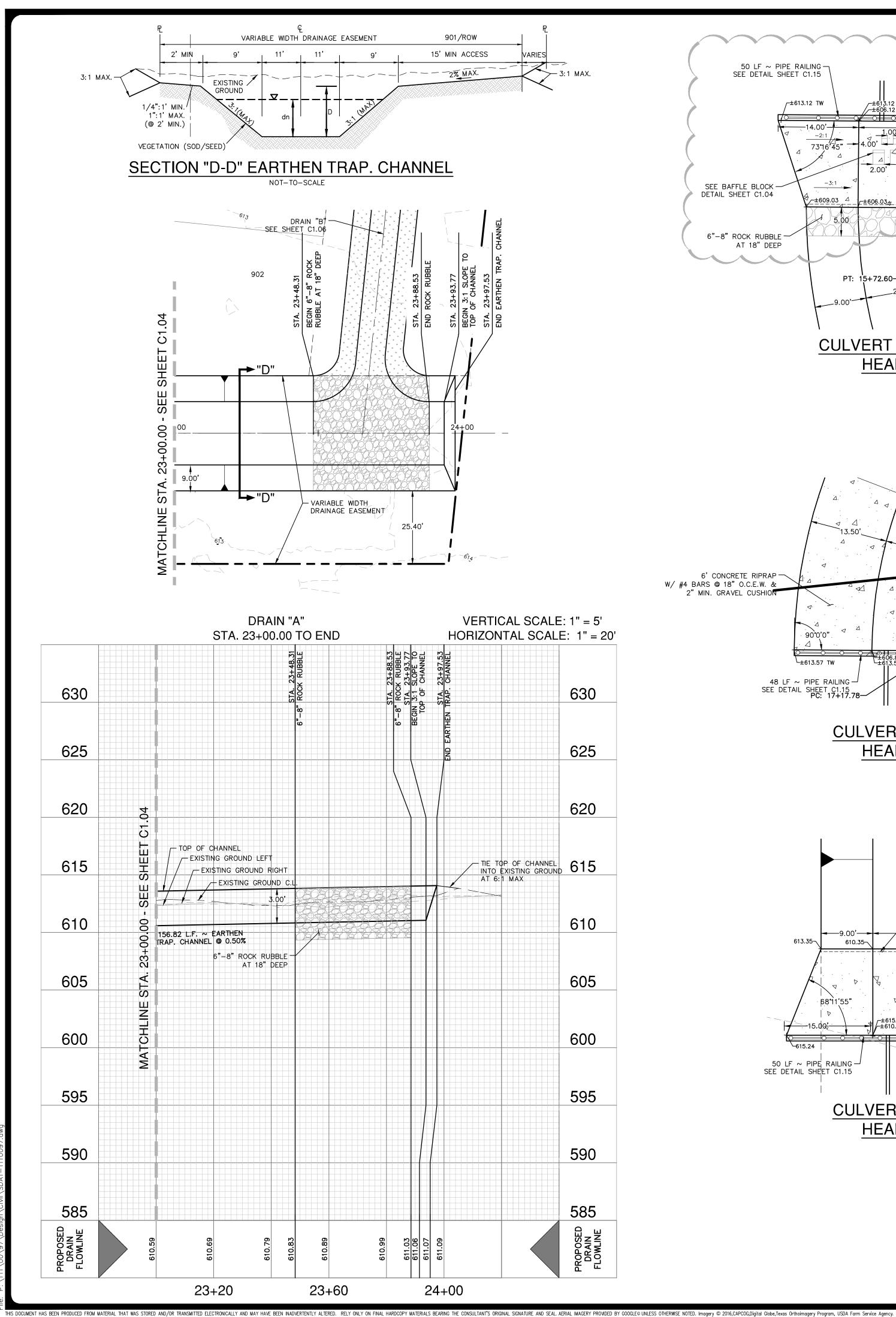
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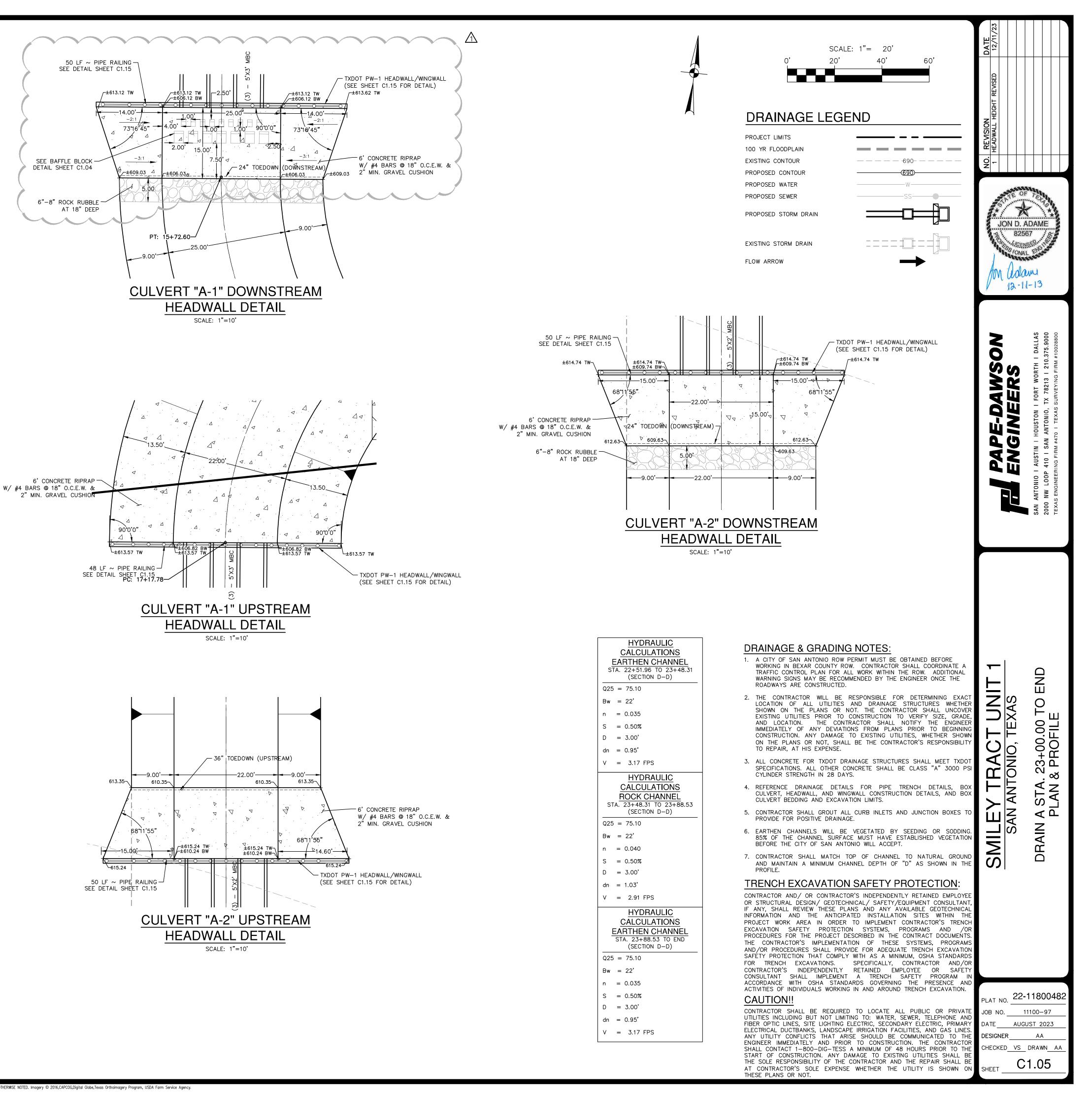


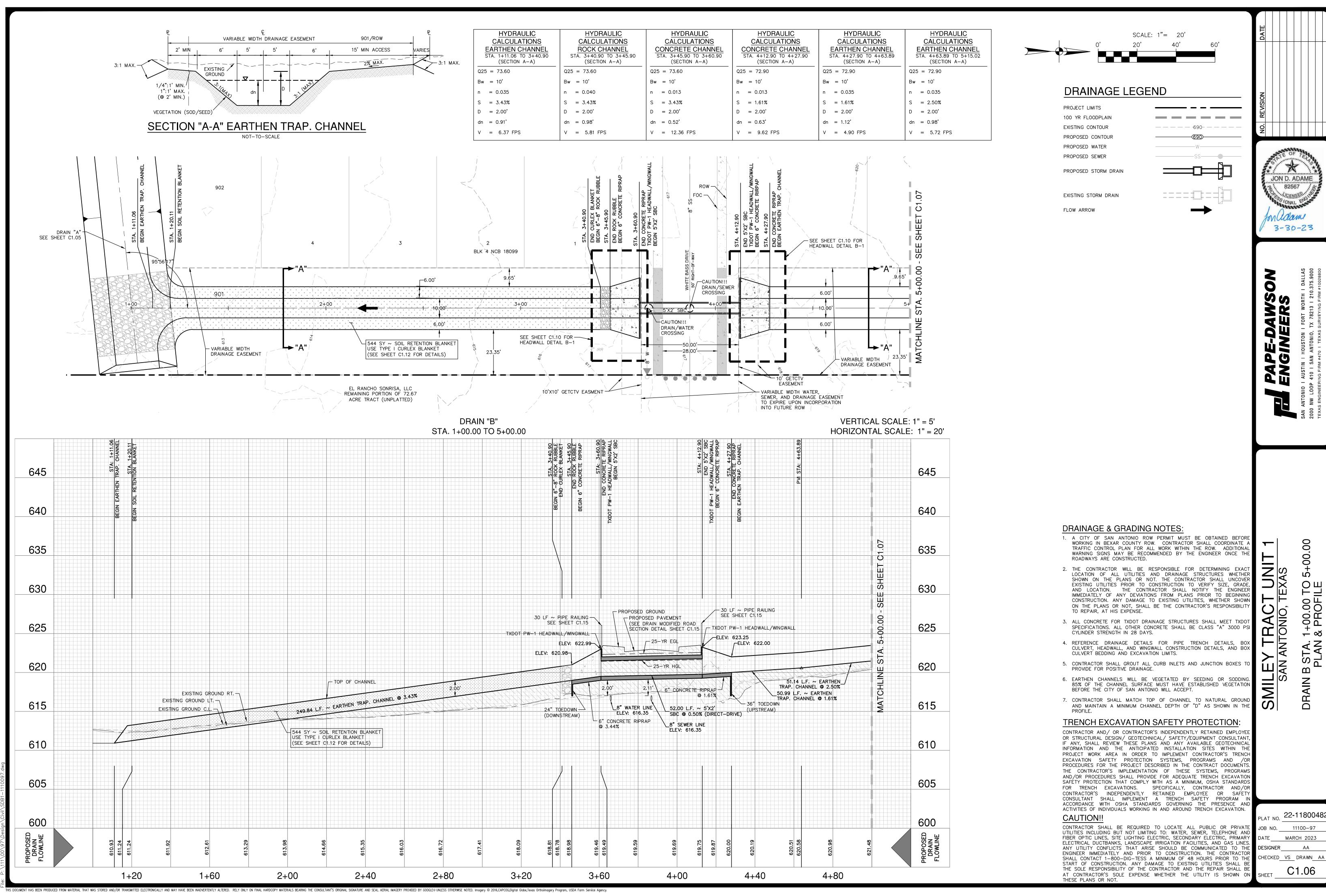




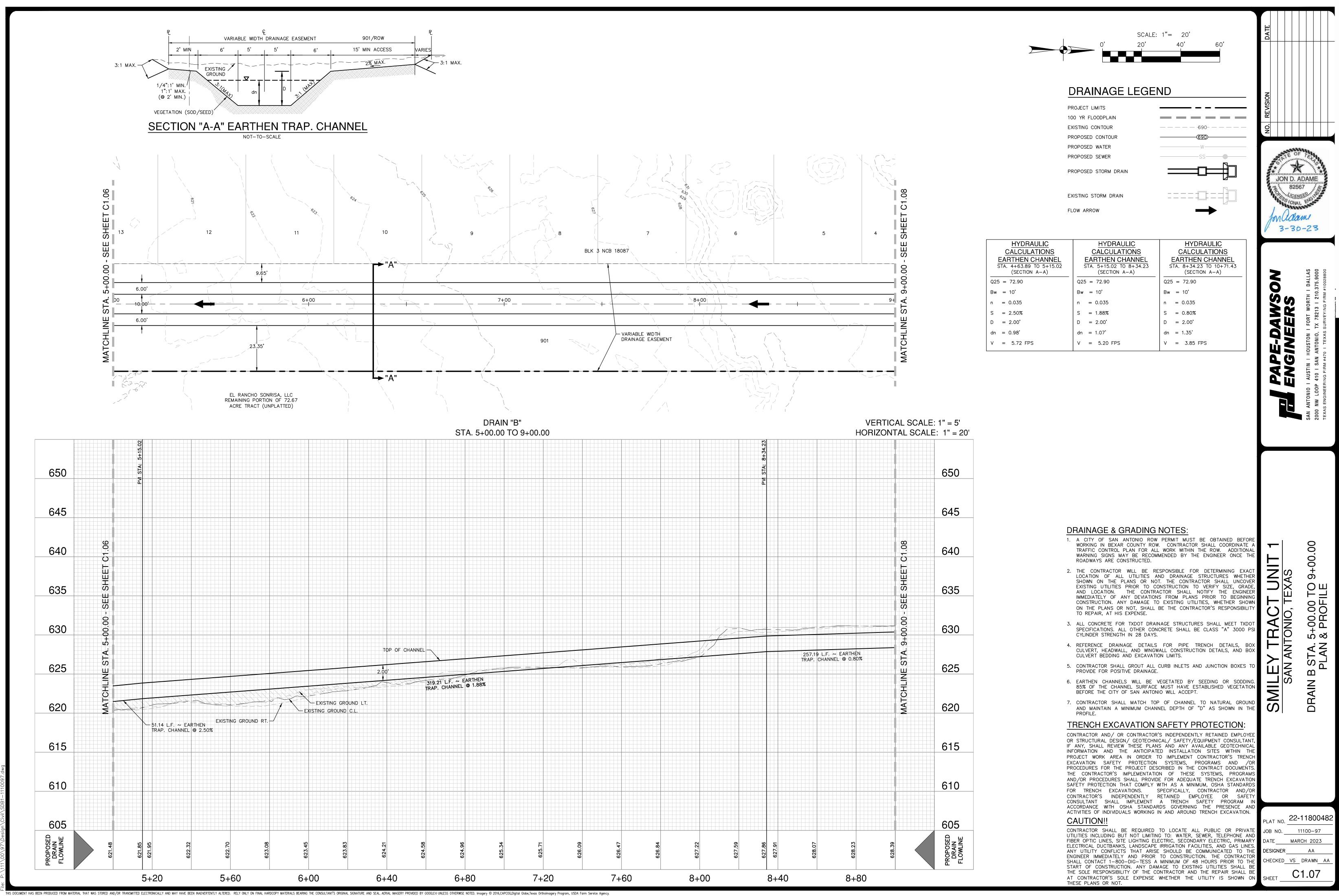
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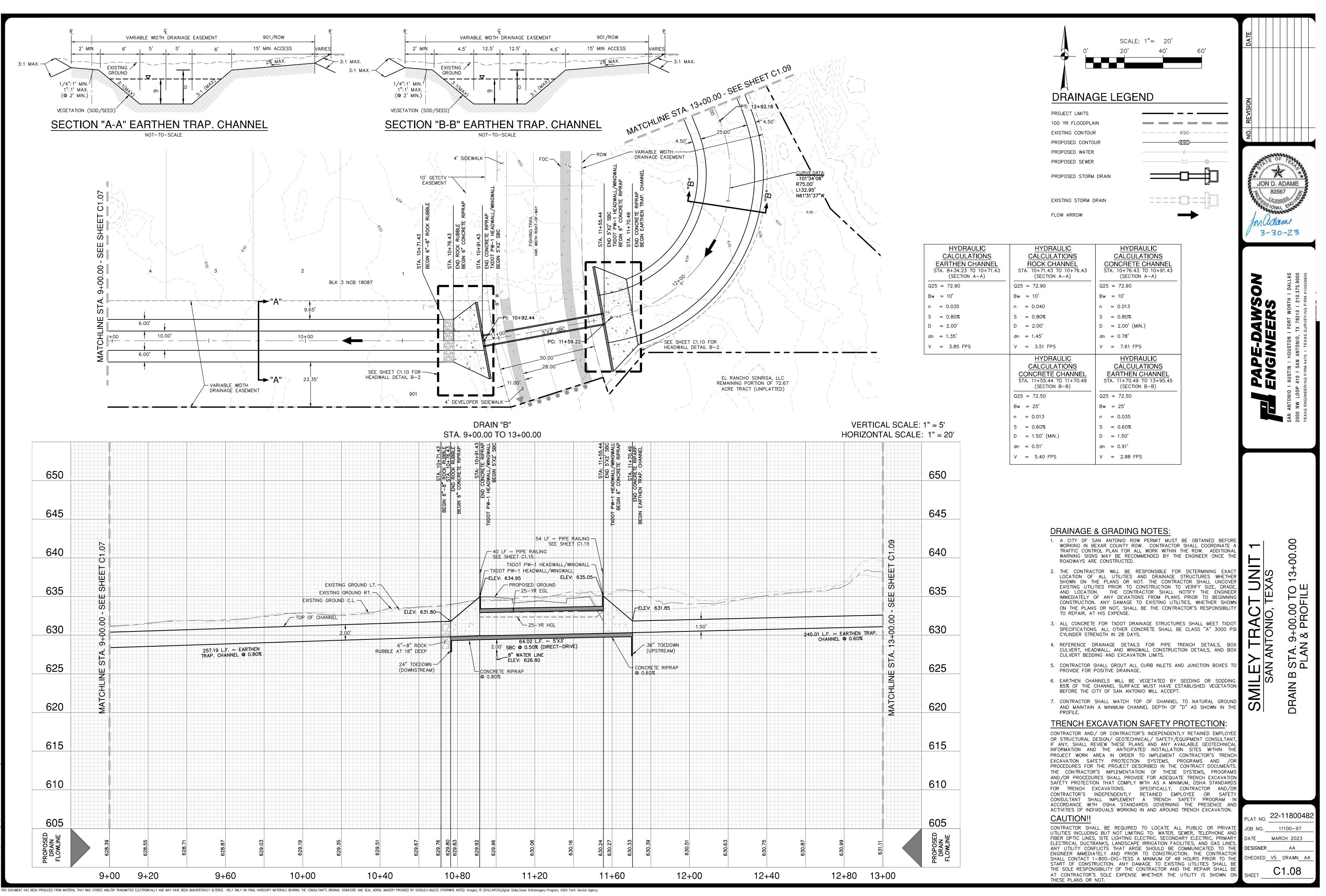




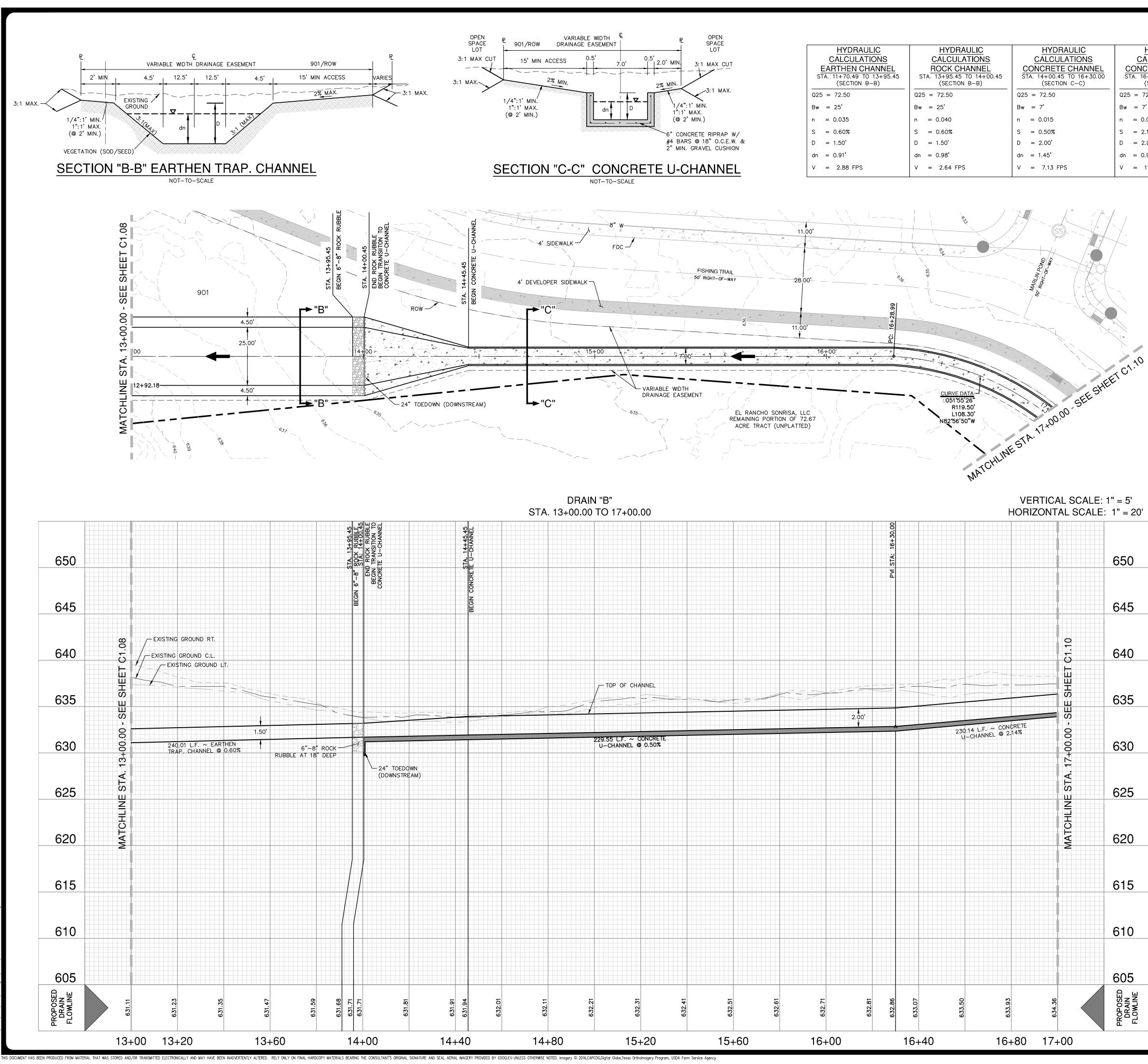


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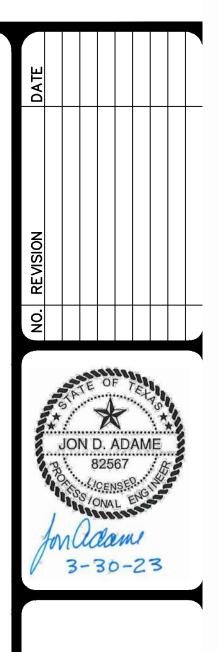


_	HYDRAULIC CALCULATIONS ONCRETE CHANNEL A. 16+30.00 TO 18+60.14 (SECTION C-C)
Q25	= 72.50
Bw	= 7'
n	= 0.015
S	= 2.14%
D	= 2.00'
dn	= 0.90'
V	= 11.50 FPS

650
650
645
640
635
630
625
620
615
610
605 Өш

SCALE: 1"= 20' DRAINAGE LEGEND PROJECT LIMITS 100 YR FLOODPLAIN EXISTING CONTOUR PROPOSED CONTOUR PROPOSED WATER PROPOSED SEWER PROPOSED STORM DRAIN EXISTING STORM DRAIN

FLOW ARROW



2 0

DRAINAGE & GRADING NOTES:

- 1. A CITY OF SAN ANTONIO ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN 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.
- 2. 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.
- 3. ALL CONCRETE FOR TXDOT DRAINAGE STRUCTURES SHALL MEET TXDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
- 4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
- 5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
- 6. 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.
- 7. 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 TH PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OF 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 SAFÉTY 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 T ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO TH START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL E THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL B AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN OF THESE PLANS OR NOT.

		2
SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I 2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210. Texas engineering firm #470 i texas surveying firm #	DRAIN B STA. 13+00.00 TO 17+00.00 PLAN & PROFILE	11800482 1100–97
ENGINEERS	SAN ANTONIO, TEXAS	0
I PAPE-DAWS	SMILEY TRACT UNIT 1	PLAT NO

DATE

SHEET

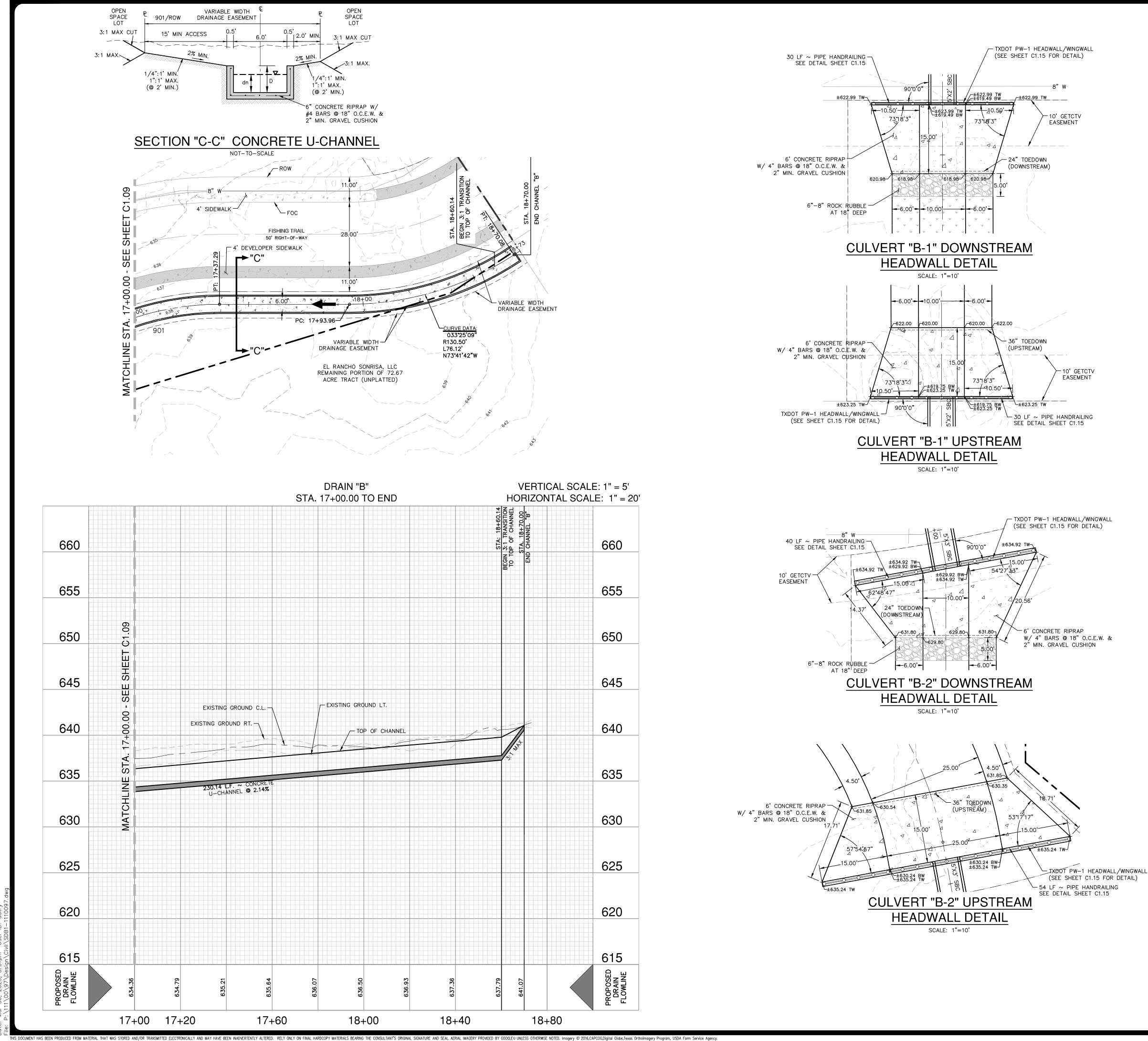
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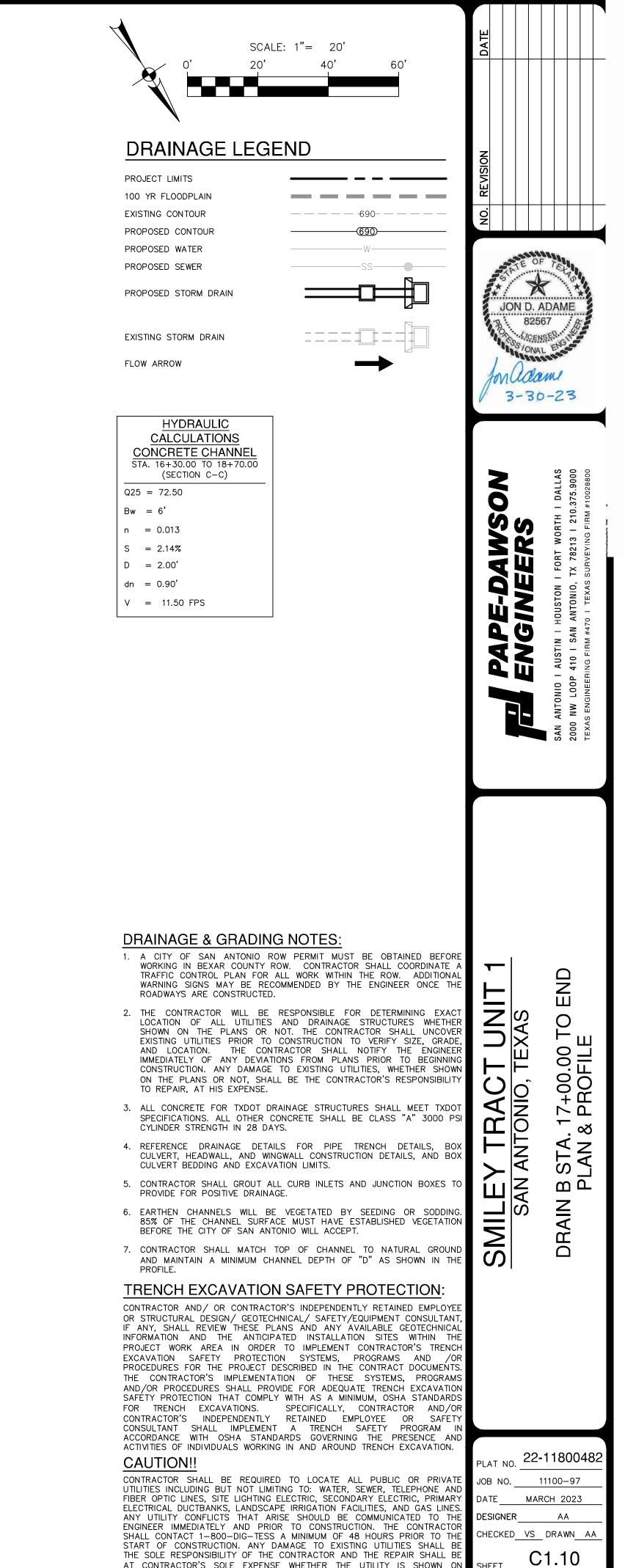
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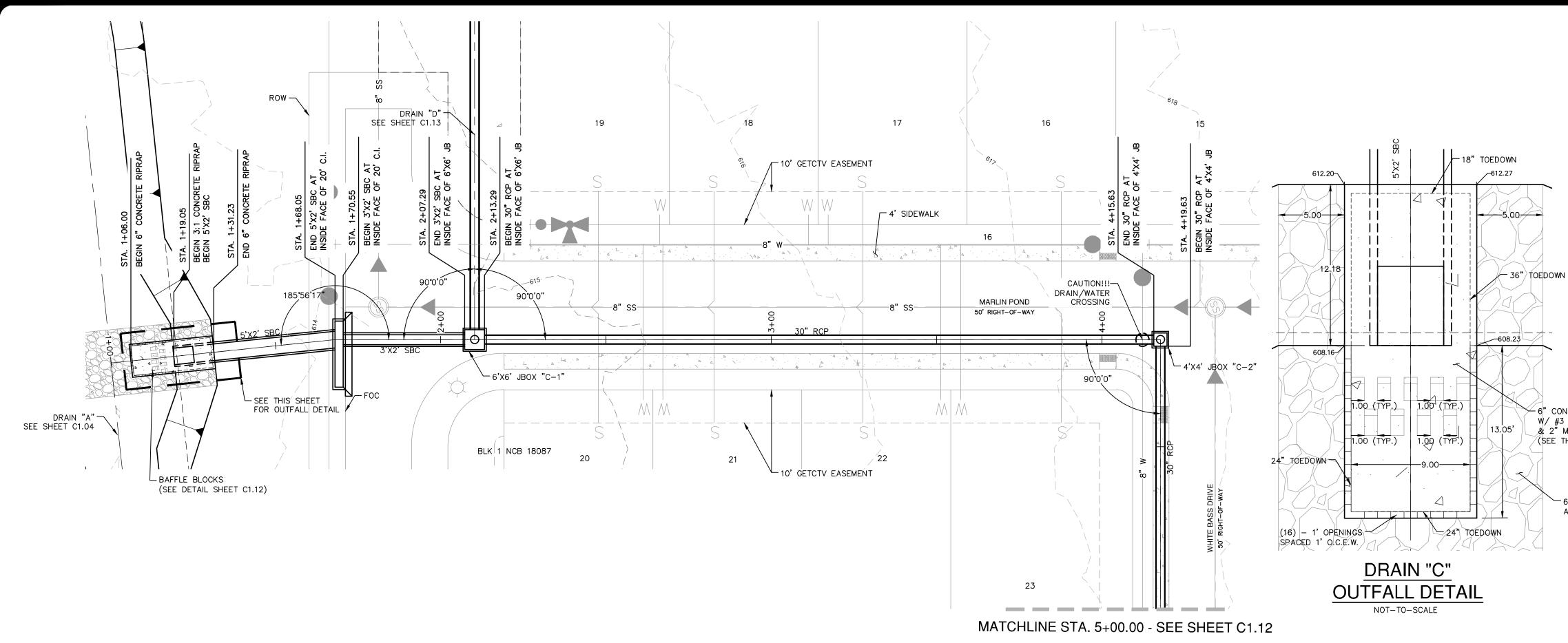
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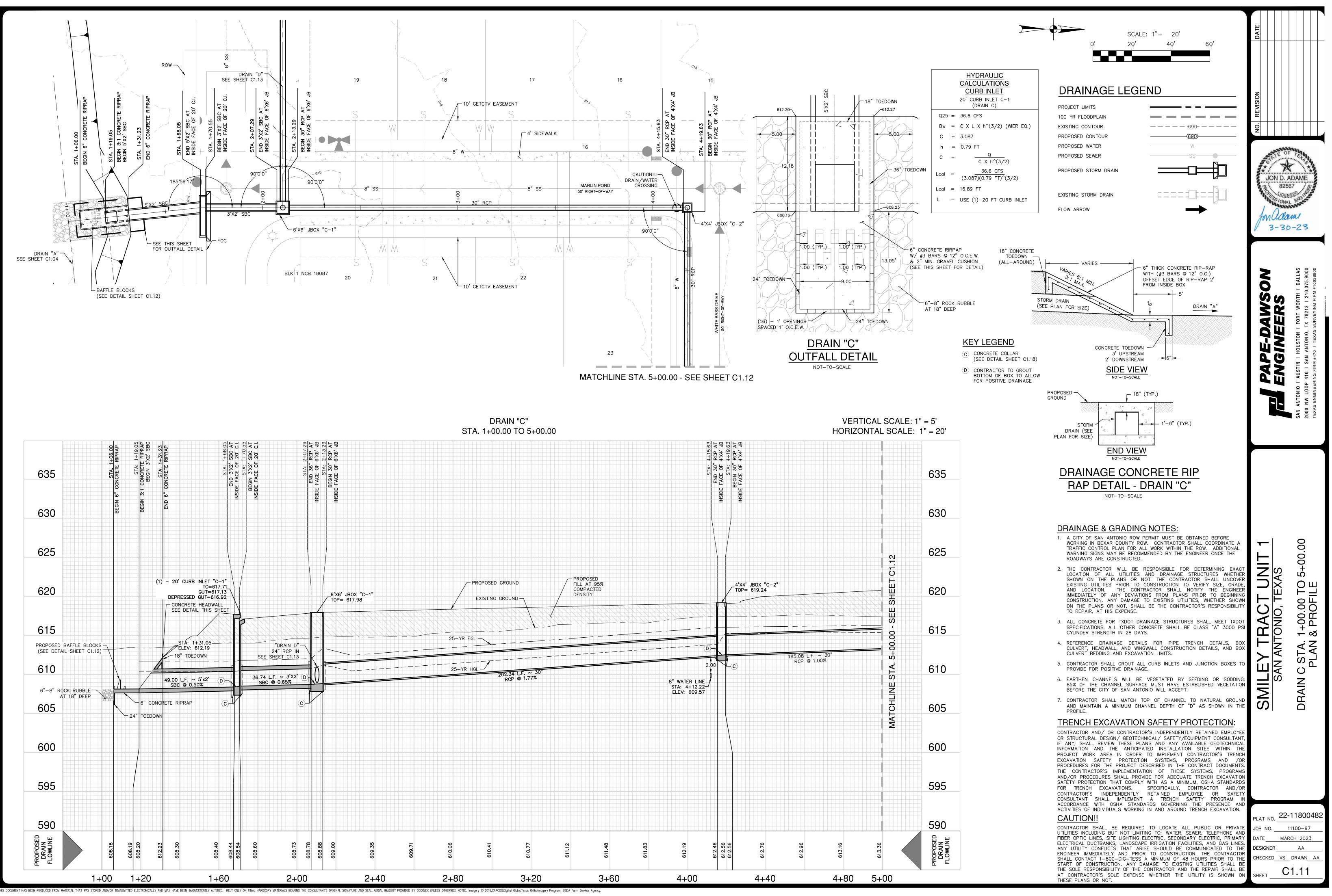


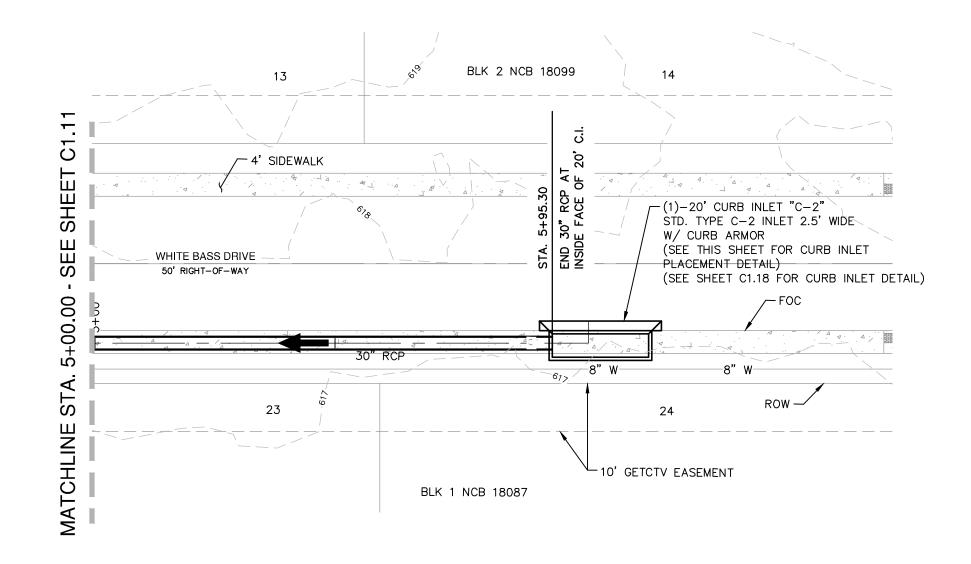


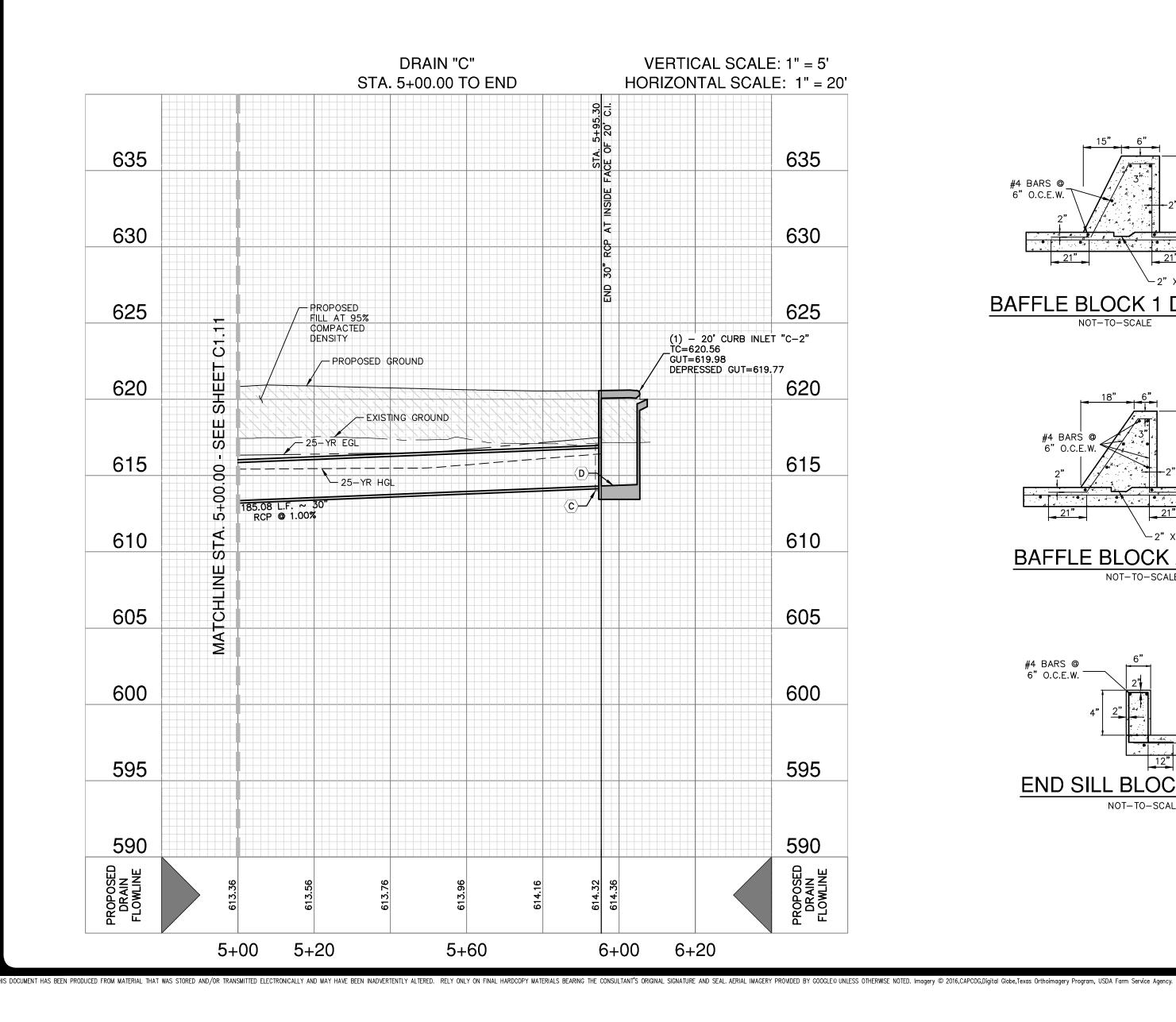
AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN C SHEET

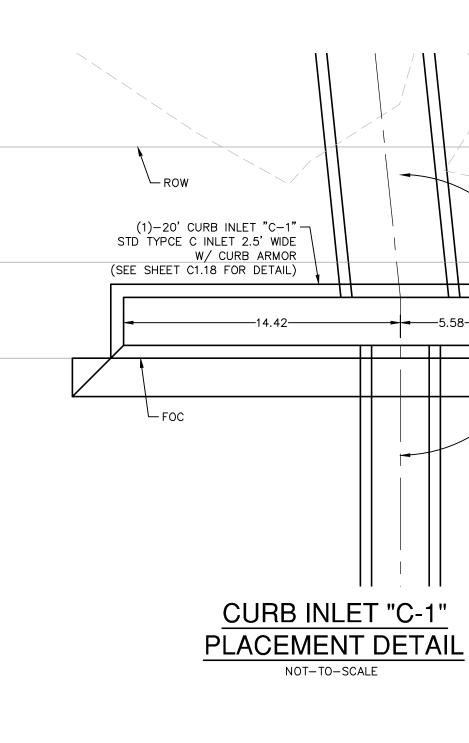
THESE PLANS OR NOT.

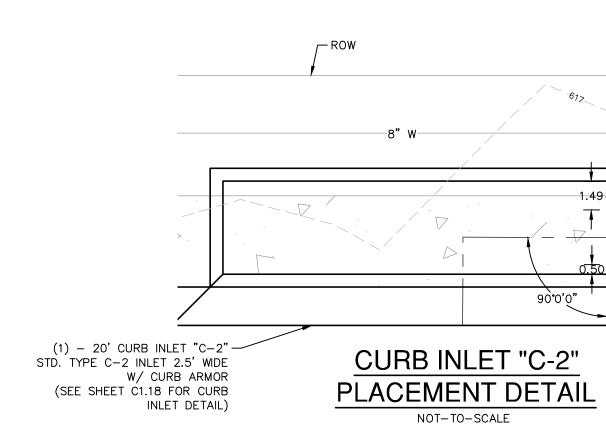


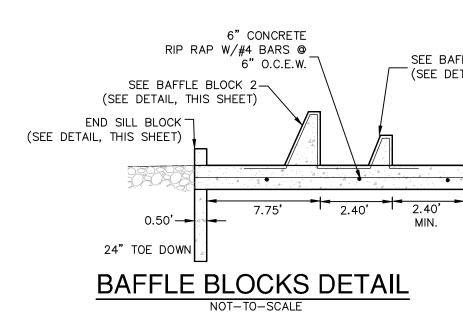


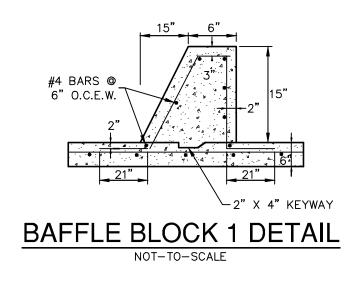


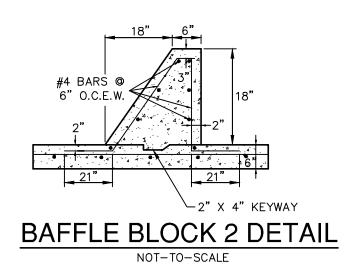


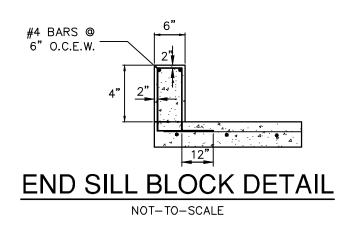


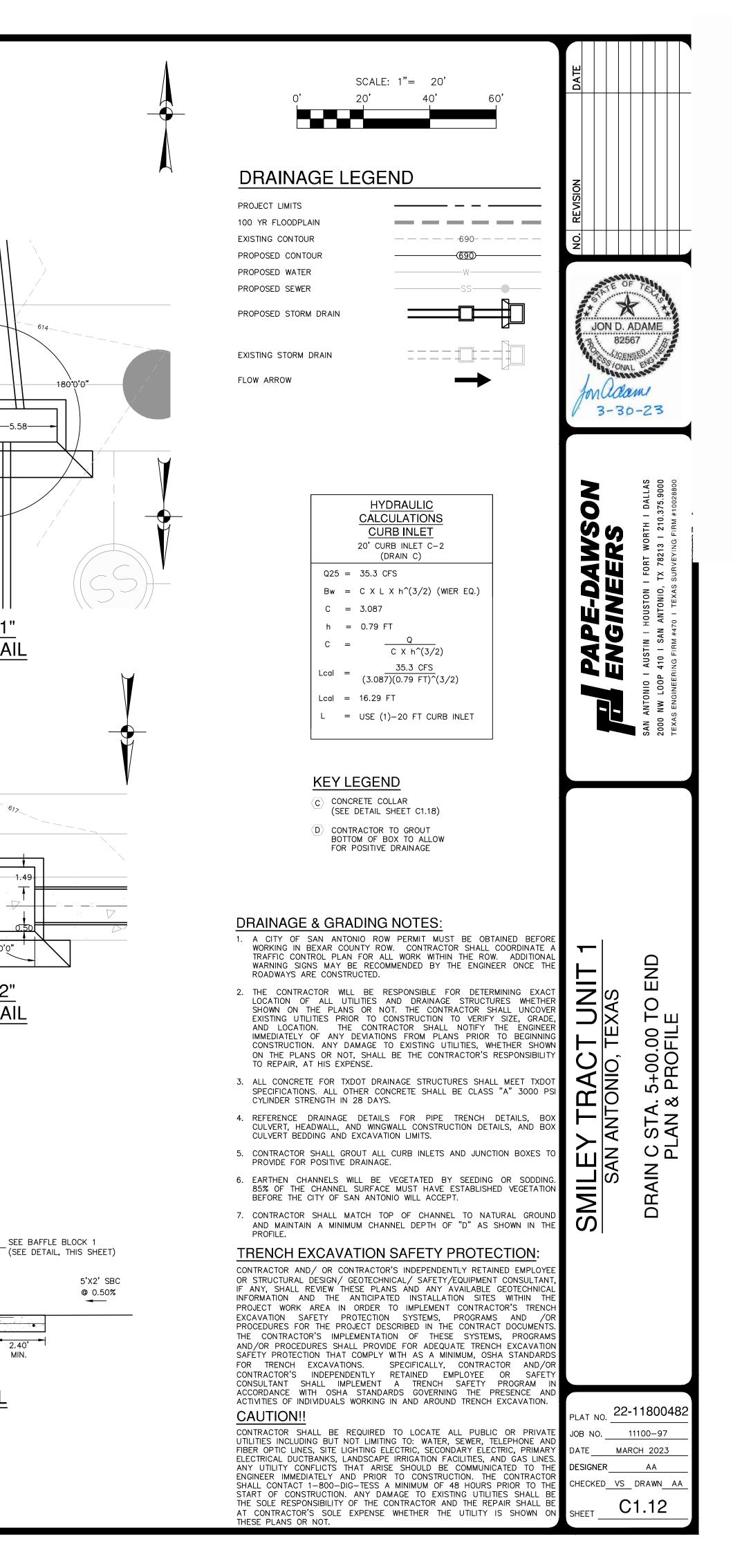


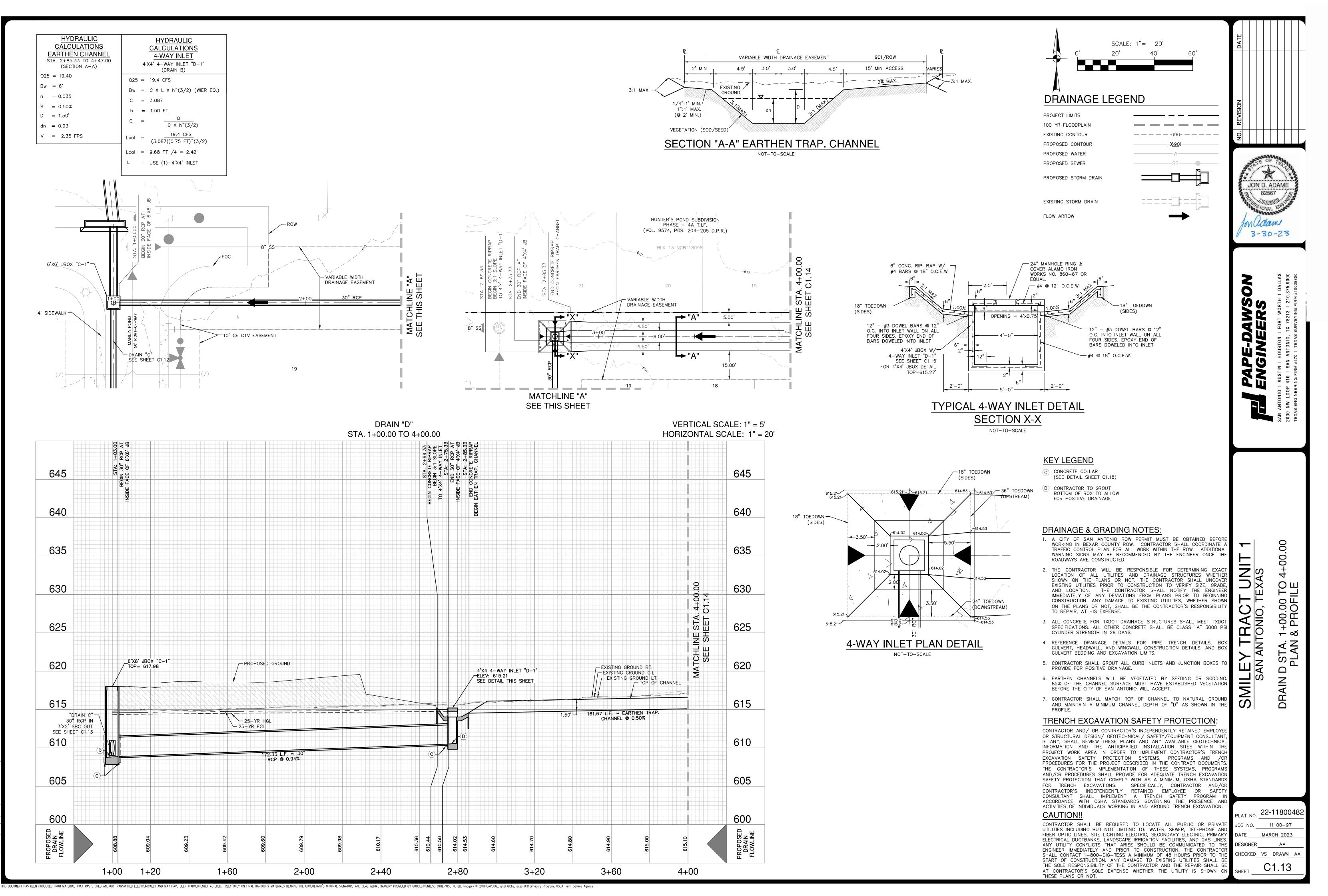




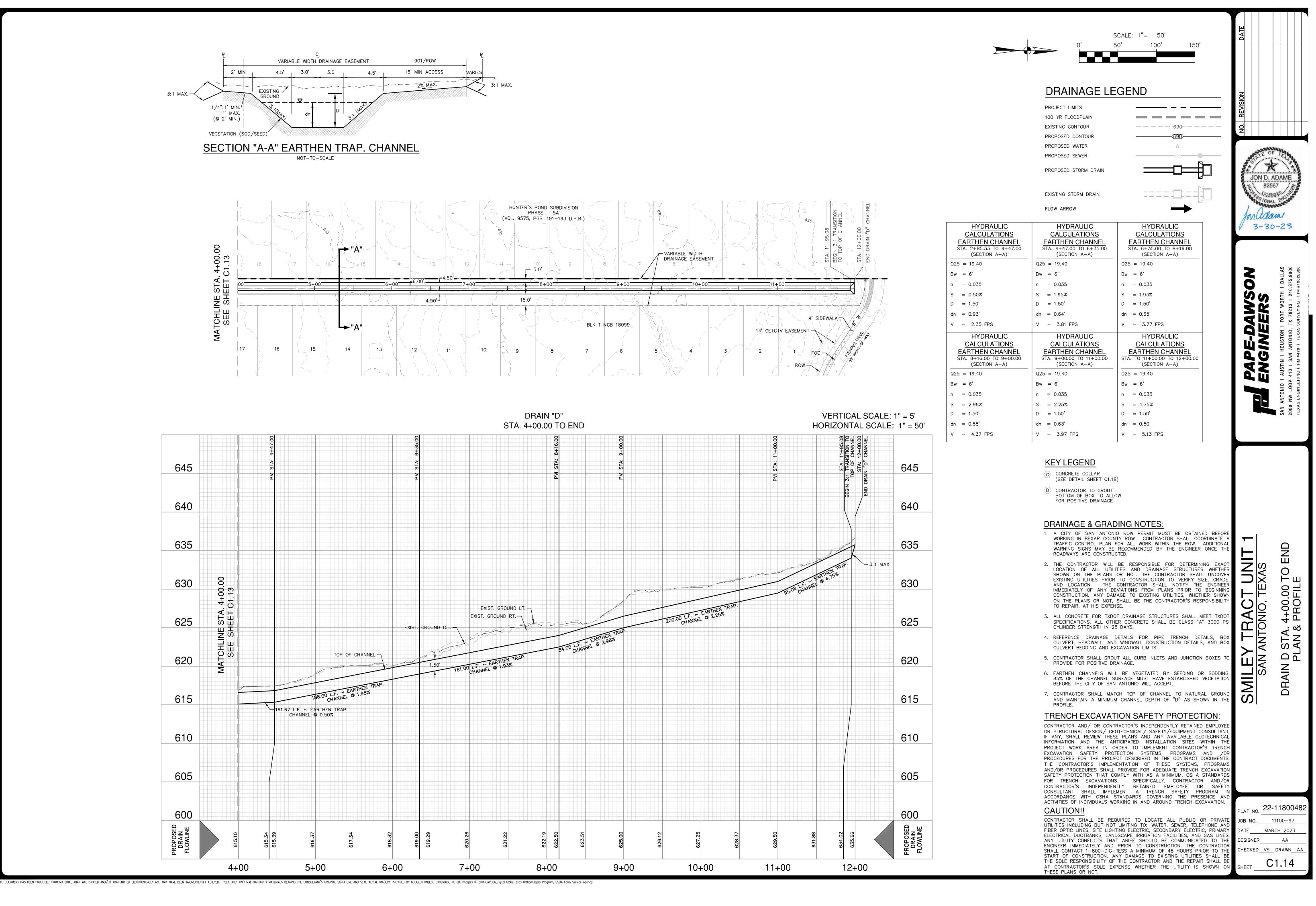


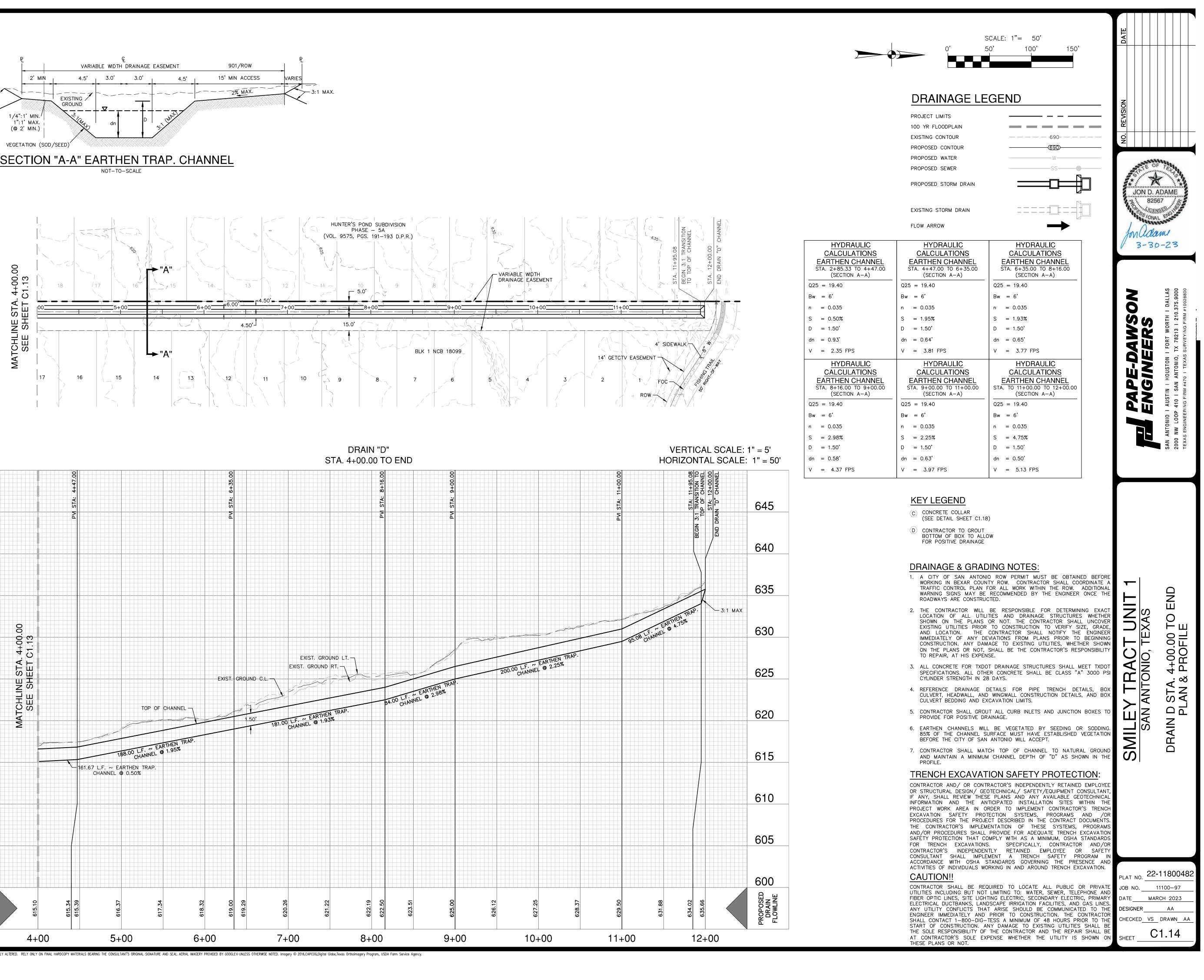


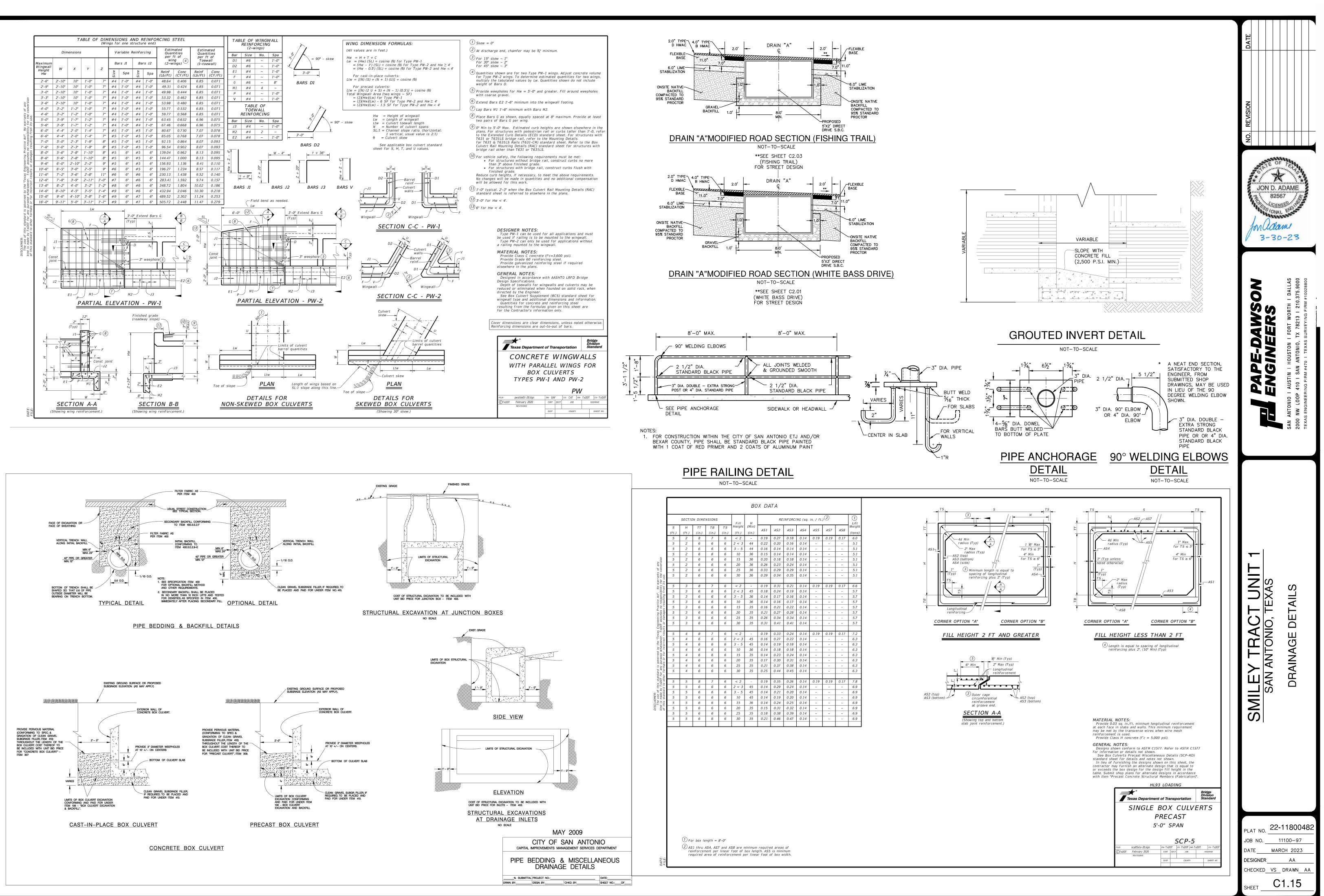




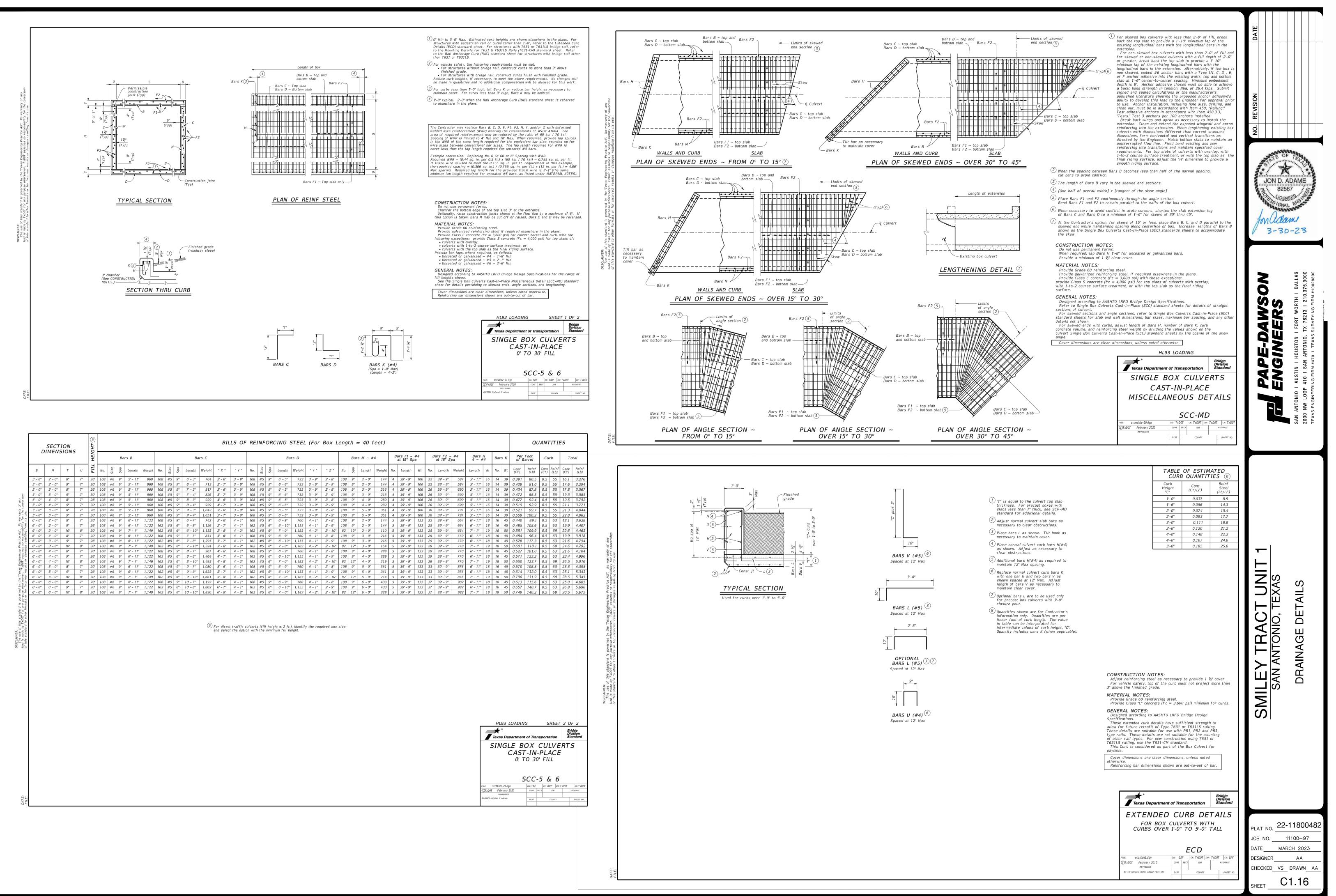
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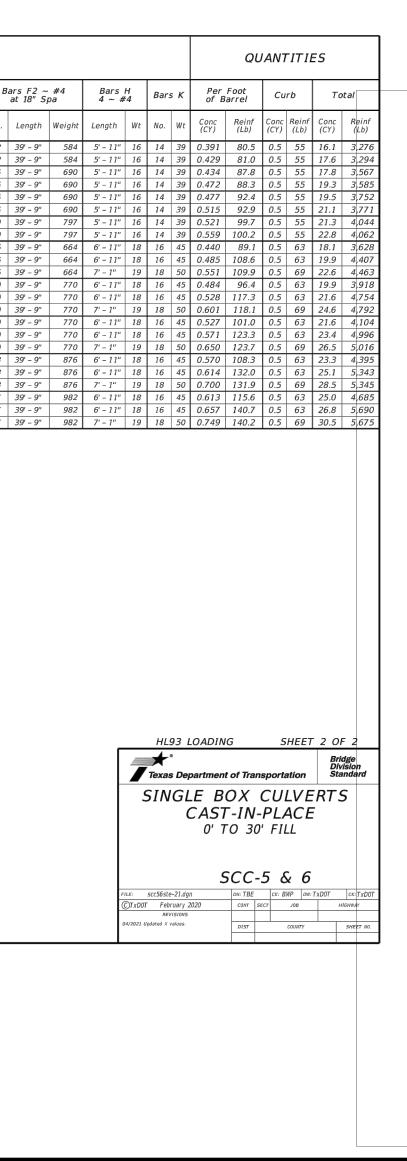


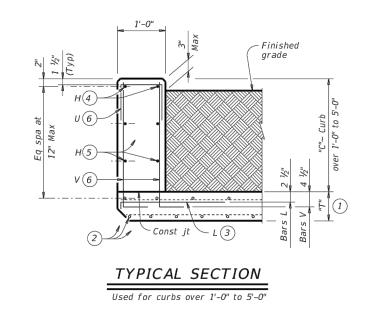
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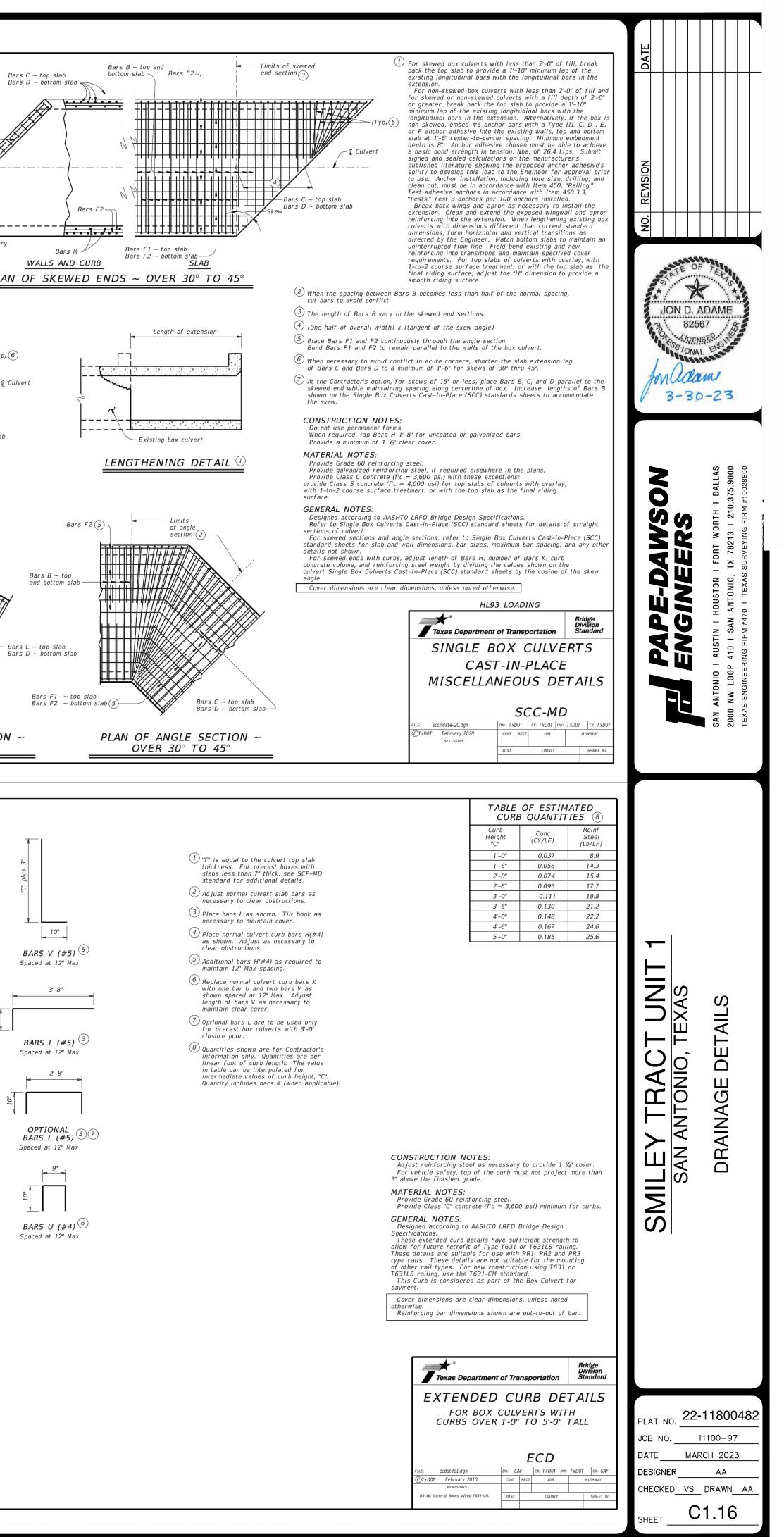


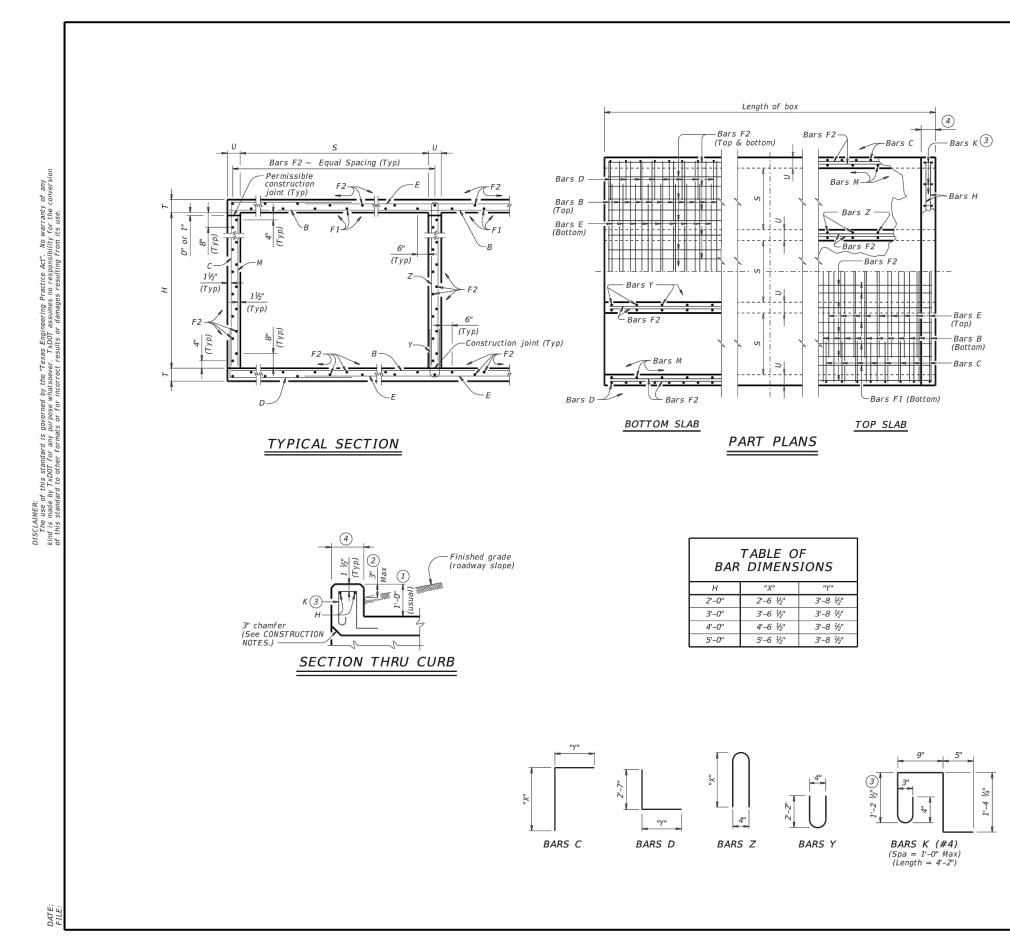
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S	Н	т	U		FILL	No.	Size	Spa	Leng		Weight		Size	Spa	Length	Weight	" X "	" Y "	No.	Size	Spa	Length	Weight		" Z "	No.	Spa	Length	Weight	No.	Length	Wt	No.	
5' – 0" 5' – 0"	2' - 0" 2' - 0"	8" 9"	7"		26' 30'	108 108	#6 #6		5' - 5' -		960 960	108 108			6' - 3" 6' - 4"	704 713	2' - 6'' 2' - 7''	3' - 9" 3' - 9"		#5 #5	9" 9"	6' - 5'' 6' - 6''	723 732		2' - 8'' 2' - 9''	108 108	9" 9"	2' - 0'' 2' - 0''	144 144	4 4	39' – 9" 39' – 9"	106 106	22 22	ŀ
5' - 0"	3' - 0"	8" 0"	7"	_	26'	108			5' - 5' -		960	108			7' - 3"	817	3' - 6"	3' - 9"	108			6' - 5''	723		2' - 8''		9" 0"	3' - 0"	216	4	39' - 9" 30' - 0"	106	26	-
5' - O'' 5' - O''	3' - 0'' 4' - 0''	9" 8"	7" 7"		30' 26'	108 108	#6 #6		5'-		960 960	108 108			7' - 4" 8' - 3"	826 929	3' - 7'' 4' - 6''	3' - 9'' 3' - 9''	108 108	#5 #5	9" 9"	6' - 6'' 6' - 5''	732 723		2' - 9'' 2' - 8''	108 108	9" 9"	3' - 0'' 4' - 0''	216 289	4	39' – 9" 39' – 9"	106 106	26 26	
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5' - 0''	5' - 0"	9"	7"	_	30'	108	#6	9"	5' -		960	108			9' - 4"	1,042	5' - 7"	3' - 9''	108	#5		6' - 6''	732		2' - 9''		9"	5' - 0"	361	4	39' - 9"	100	30	Ē
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6' - 0''	2' - 0''	10"	8"		30'	108	#6	9"	7' -	1"	1,149	162	#5	6"	6' - 10"	1,155	2' - 8''	4' - 2"	162	#5	6"	7' - 0''	1,183	4' - 2"	2' - 10''	82	12"	2' - 0''	110	5	39' - 9''	133	25	
5' - 0'' 5' - 0''	3' - 0" 3' - 0"	8" 9"	7"		20' 26'	108 108	#6 #6		6' - 6' -		1,122 1,122	108 162	_		7' - 7" 7' - 8"	854 1,295	3' - 6'' 3' - 7''	4' - 1'' 4' - 1''		#5 #5		6' - 9'' 6' - 10''	760	4' - 1" 4' - 1"	2' - 8'' 2' - 9''	108 108	9" 9"	3' - 0" 3' - 0"	216 216	5 5	39' - 9" 39' - 9"	133 133	29 29	-
6' - 0''	3' - 0"	10"	8"		30'	108	#6	9"	7' -	1"	1,149	162	#5	6"	7' - 10"	1,324	3' - 8''	4' - 2"	162	#5	6"	7' - 0''	1,183	4' - 2"	2' - 10''	82	12"	3' - 0"	164	5	39' - 9"	133	29	L
6' – 0'' 6' – 0''	4' - 0'' 4' - 0''	8" 9"	7" 7"	_	20' 26'	108 108	#6 #6	9" 9"	6' - 6' -		1,122 1,122	108 162			8' - 7" 8' - 8"	967 1,464	4' - 6'' 4' - 7''	4' - 1'' 4' - 1''	108 162	#5 #5	9" 6"	6' - 9'' 6' - 10''	760	4' - 1" 4' - 1"	2' - 8'' 2' - 9''	108 108	9" 9"	4' - 0'' 4' - 0''	289 289	5 5	39' - 9" 39' - 9"	133 133	29 29	H
6' - 0''	4' - 0"	10"	8"	_	30'	108		9"	7' -		1,149				8' - 10"	1,493	4' - 8''	4' - 2"				7' - 0"	1,183		2' - 10"		12"	4' - 0''	219	5	39' - 9"	133	29	F
6' - 0'' 6' - 0''	5' - 0" 5' - 0"	8" 9"	7" 7"	_	20' 26'	108 108	#6 #6		6' - 6' -		1,122 1,122				9' - 7'' 9' - 8''	1,080 1,633	5' - 6" 5' - 7"	4' - 1" 4' - 1"	108 162	#5 #5		6' - 9'' 6' - 10''	760		2' - 8'' 2' - 9''	108 108	9" 9"	5' - 0" 5' - 0"	361 361	5 5	39' – 9" 39' – 9"	133 133	33 33	F.
6' - 0'' 6' - 0''	5' - 0" 6' - 0"	10" 8"	8" 7"	_	30' 20'	108 108	#6 #6	<u> </u>	7' - 6' -		1,149 1,122	162 108			9' - 10'' 10' - 7''	1,661 1,192	5' - 8'' 6' - 6''	4' - 2'' 4' - 1''	162 108	#5 #5		7' - 0'' 6' - 9''	1,183 760	4' - 2'' 4' - 1''	2' - 10'' 2' - 8''	82 108	12" 9"	5' - 0'' 6' - 0''	274 433	5 5	39' – 9'' 39' – 9''	133 133	33 37	-
6' - 0''	6' - 0"	9"	7"	_		108	#6	9"	6' -		1,122	162			10' - 8"	1,192	6' - 7''	4 - 1 4' - 1''	162	#5		6' - 10"	1,155	4' - 1''	2' - 9''	108	9"	6' - 0"	433	5	39' - 9" 39' - 9"	133	37	Ē

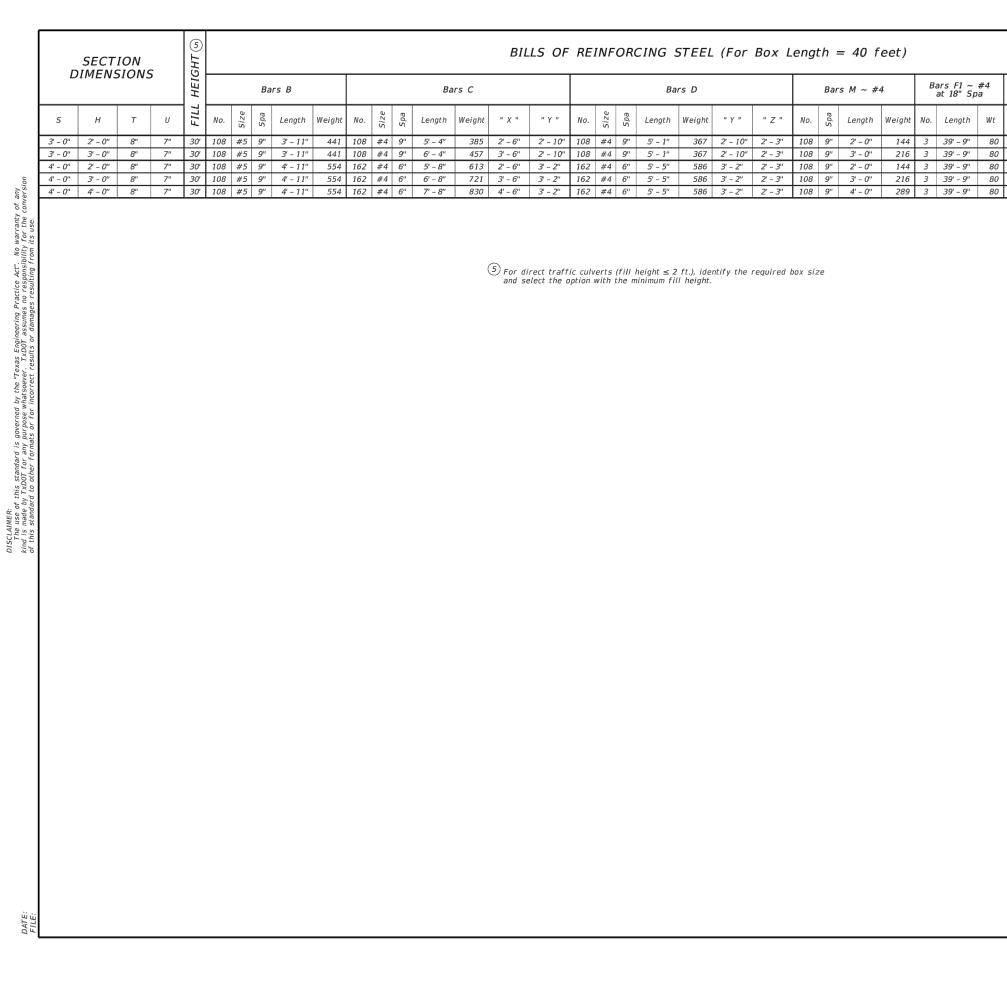
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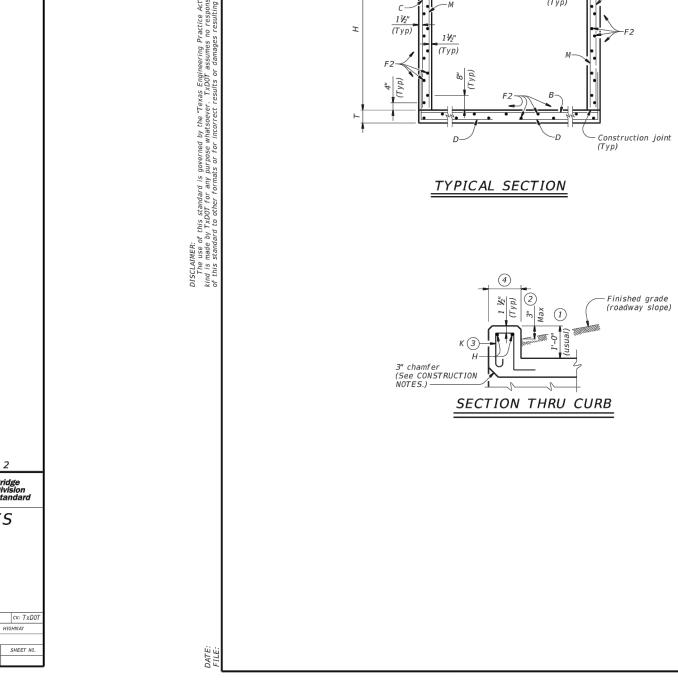




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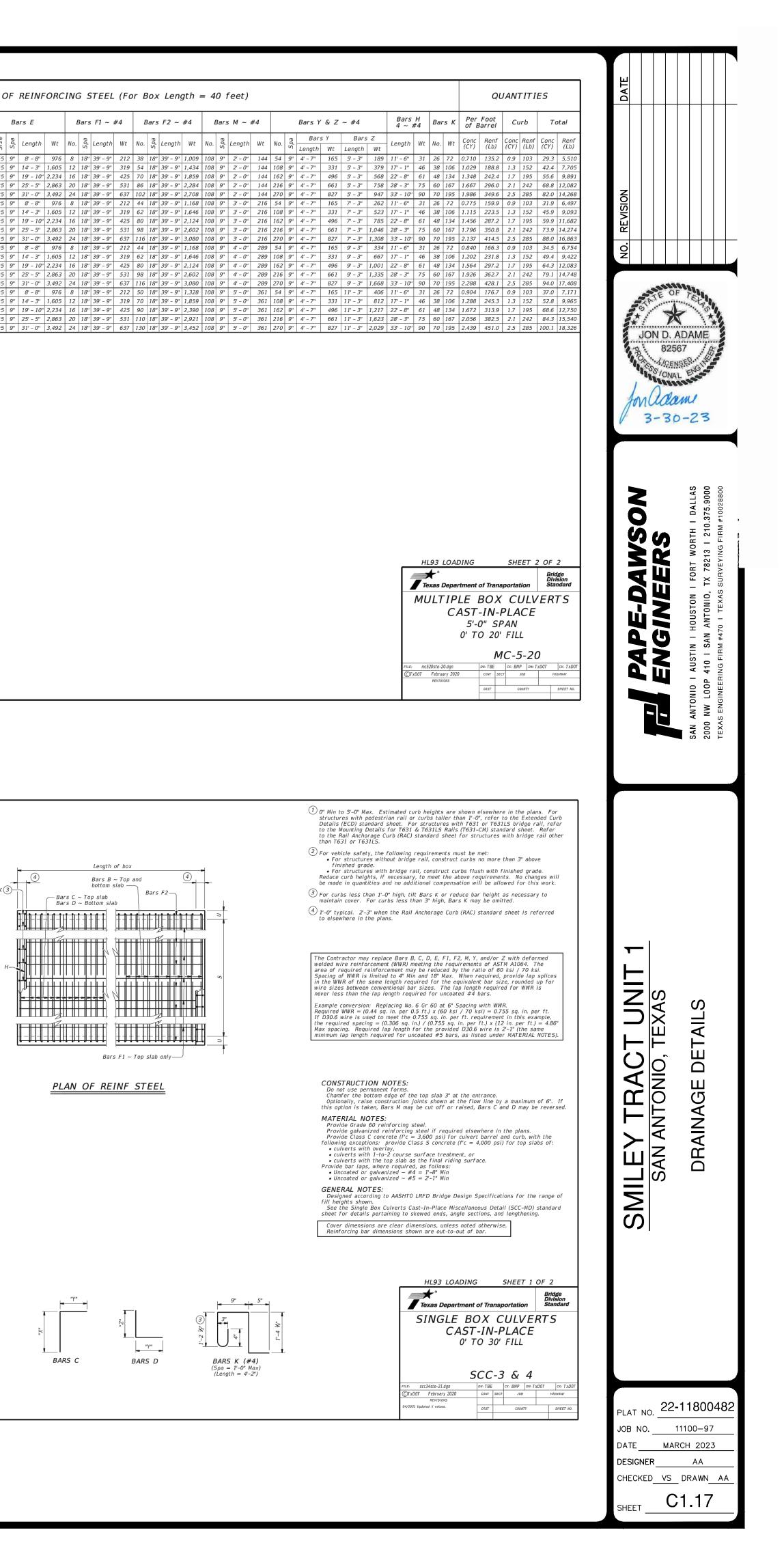
	① O" Min to 5'-O" Max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail or curbs taller than 1'-O", refer to the Extended Curb Details (ECD) standard sheet. For structures with T631 or T631LS bridge rail, refer to the Mounting Details for T631 & T631LS Rails (T631-CM) standard sheet. Refer		OF SPANS	D	SECT IMENS		S		В	ars B				Bars (<u>с к л</u>		В	BILLS	OF
	to the Rail Anchorage Curb (RAC) standard sheet for structures with bridge rail other than T631 or T631LS. ② For vehicle safety, the following requirements must be met:		NUMBER	5	н	т	U	No.	Size Spa		Wt	No	size Spa	Bars	С	Bars		No.	Size
кЭ	 For structures without bridge rail, construct curbs no more than 3" above finished grade. For structures with bridge rail, construct curbs flush with finished grade. Reduce curb heights, if necessary, to meet the above requirements. No changes will 		2 3	5' - 0" 5' - 0"	2' - 0" 2' - 0"	8" 8"	7" 7"	108		11' - 6"	1,295 1,924	108 #	¥5 9"	Length 6' - 3'' 6' - 3''	Wt 704 704	Length 6' – 4'' 6' – 4''		108 # 108 #	#5 S
	be made in quantities and no additional compensation will be allowed for this work. ③ For curbs less than 1'-0" high, tilt Bars K or reduce bar height as necessary to	5	4	5' - 0" 5' - 0"	2' - 0" 2' - 0" 2' - 0"	8" 8"	7" 7"	108	#5 9"	22' - 8" 28' - 3"	2,553 3,182	108 #	¥5 9"	6' - 3'' 6' - 3''	704 704	6' - 4'' 6' - 4''	713	108 # 108 # 108 #	#5 9
н	maintain cover. For curbs less than 3" high, Bars K may be omitted. (4) 1'-0" typical. 2'-3" when the Rail Anchorage Curb (RAC) standard sheet is referred	of any.	6	5' - 0"	2' - 0"	8"	7"	108	#5 9"	33' - 10'	3,811	108 #	¥5 9″	6' - 3''	704	6' - 4"	713	108 #	#5 <u>9</u>
	to elsewhere in the plans.	anty ise.	2 3	5' - 0" 5' - 0"	3' - 0" 3' - 0"	8" 8"	7" 7"	++	#6 9" #6 9"	11' - 6" 17' - 1"	1,865 2,771			7' - 3'' 7' - 3''	817 817	6' - 4'' 6' - 4''		108 # 108 #	_
		Vo warr ity for mits u	4 5	5' - 0" 5' - 0"	3' - 0" 3' - 0"	8" 8"	7" 7"	+ +		22' - 8'' 28' - 3''	3,677 4,583	108 # 108 #		7' - 3'' 7' - 3''	817 817	6' - 4'' 6' - 4''		108 # 108 #	
	The Contractor may replace Bars B, C, D, E, F1, F2, M, Y, and/or Z with deformed welded wire reinforcement (WWR) meeting the requirements of ASTM A1064. The	e Act". sponsibi	6 2	5' - 0" 5' - 0"	3' - 0" 4' - 0"	8" 8"	7" 7"	108	#6 9"	33' - 10' 11' - 6''	1,865	108 #	≠5 9"	7' - 3'' 8' - 3''	817 929	6' - 4'' 6' - 4''	713	108 # 108 #	#5 <u>9</u>
	area of required reinforcement may be reduced by the ratio of 60 ksi / 70 ksi. Spacing of WWR is limited to 4" Min and 18" Max. When required, provide lap splices in the WWR of the same length required for the equivalent bar size, rounded up for	Practic : no res	3 4	5' - 0" 5' - 0"	4' - 0" 4' - 0"	8" 8"	7" 7"		#6 9" #6 9"	17' - 1" 22' - 8"	2,771 3,677	108 # 108 #		8' - 3'' 8' - 3''	929 929	6' - 4'' 6' - 4''		108 # 108 #	
E	wire sizes between conventional bar sizes. The lap length required for WWR is never less than the lap length required for uncoated #4 bars.	ering I ssumes	5 6	5' - 0" 5' - 0"	4' - 0'' 4' - 0''	8" 8"	7" 7"	++	#6 9" #6 9"	28' - 3'' 33' - 10'	4,583 5,488	108 # 108 #		8' - 3'' 8' - 3''	929 929	6' - 4'' 6' - 4''		108 # 108 #	
B	Example conversion: Replacing No. 6 Gr 60 at 6" Spacing with WWR Required WWR = (0.44 sq. in. per 0.5 ft.) x (60 ksi / 70 ksi) = 0.755 sq. in. per ft. If D30.6 wire is used to meet the 0.755 sq. in. per ft. requirement in this example,	Engine (DOT a Its or	2 3	5' - 0" 5' - 0"	5' - 0" 5' - 0"	8" 8"	7" 7"	+ +	#6 9" #6 9"	11' - 6" 17' - 1"	1,865 2,771				1,042 1,042	6' - 4'' 6' - 4''		108 # 108 #	
om) C	the required spacing = $(0.306 \text{ sq. in.}) / (0.755 \text{ sq. in. per ft.}) \times (12 \text{ in. per ft.}) = 4.86"$ Max spacing. Required lap length for the provided D30.6 wire is 2'-1" (the same	Texas er. Ta t resu	4	5' - 0"	5' - 0"	8"	7"	108	#6 9"	22' - 8''	3,677	108 #	¥5 9"	9' - 3''	1,042	6' - 4"	713	108 #	#5 S
	minimum lap length required for uncoated #5 bars, as listed under MATERIAL NOTES).	by the '	5 6	5' - 0" 5' - 0"	5' - 0" 5' - 0"	8" 8"	7" 7"	++	#6 9" #6 9"	28' - 3'' 33' - 10'	4,583 5,488	108 # 108 #	_		1,042 1,042	6' - 4'' 6' - 4''		108 # 108 #	
	 MATERIAL NOTES: Provide Grade 60 reinforcing steel. Provide galvanized reinforcing steel if required elsewhere in the plans. Provide Class C concrete (f'c = 3,600 psi) for culvert barrel and curb, with the following exceptions: provide Class S concrete (f'c = 4,000 psi) for top slabs of: culverts with overlay, culverts with 1-to-2 course surface treatment, or culverts with the top slab as the final riding surface. Provide bar laps, where required, as follows: Uncoated or galvanized ~ #5 = 2'-1" Min Uncoated or galvanized ~ #6 = 2'-6" Min Besigned according to AASHT0 LRFD Bridge Design Specifications for the range of fill heights shown. See the Multiple Box Culverts Cast-In-Place Miscellaneous Detail (MC-MD) standard sheet for details pertaining to skewed ends, angle sections, and lengthening. Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.	DISCLAIMER: The use of this standard kind is atlandard to other fo																	
1'-4 14"	HL93 LOADING SHEET 1 OF 2 Image: Texas Department of Transportation Bridge Division Standard MULTIPLE BOX CULVERTS CAST-IN-PLACE 5'-0" SPAN 0' TO 20' FILL 5'-0" SPAN 0' TO 20' FILL Image: Texas Department of Transportation MC-5-20 Image: Texas Department of Transportation Image: Texas Department of Transportation	ATE: TLE:																	

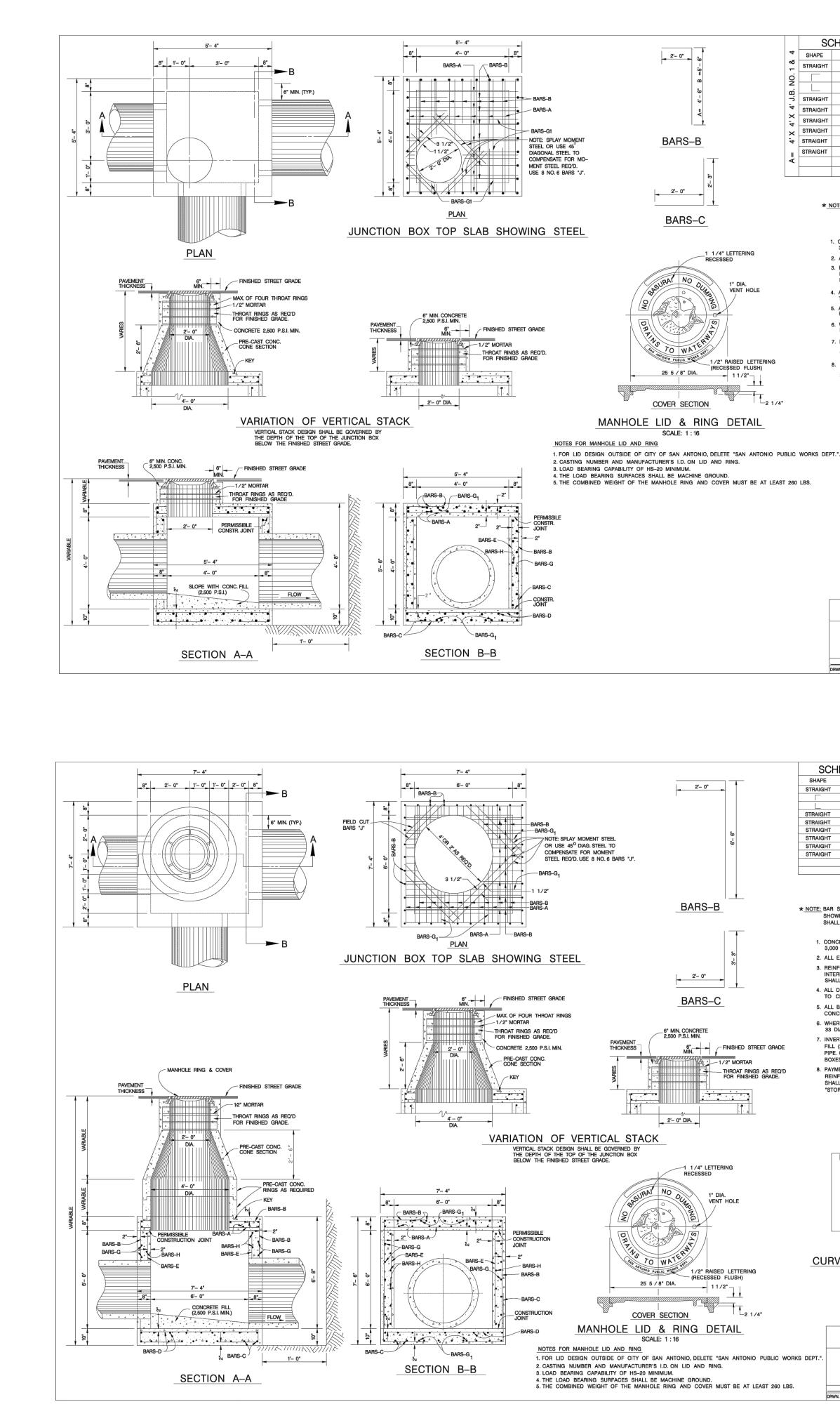
								QU	ANT	TTI	5		
4	В	ars F2 ~ at 18" Sj		Bars 4 ~ #		Bars	sΚ		Foot arrel	Cu	rb	То	tal
Wt	No.	Length	Weight	Length	Wt	No.	Wt	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)
80	19	39' - 9''	505	3' - 11"	10	10	28	0.292	48.1	0.3	38	12.0	1,960
80	23	39' - 9''	611	3' - 11''	10	10	28	0.335	54.3	0.3	38	13.7	2,210
80	21	39' - 9''	558	4' - 11''	13	12	33	0.342	63.4	0.4	46	14.1	2,581
80	25	39' - 9"	664	4' - 11''	13	12	33	0.385	70.5	0.4	46	15.8	2,867
80	25	39' - 9''	664	4' - 11''	13	12	33	0.428	75.1	0.4	46	17.5	3,049

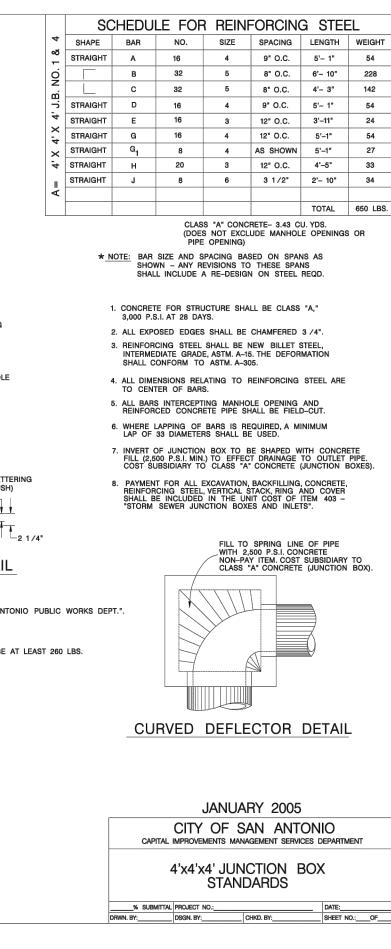


Permissible construction joint (Typ) Bars K(3)

HL93 LOADING	SHEET 2 OF 2
Texas Department	of Transportation Standard
	OX CULVERTS -IN-PLACE
	-0 30' FILL
5	5CC-3 & 4
FILE: scc34ste-21.dgn	DH: TBE CK: BMP DW: TXDOT CK: TXDOT
CTxD0T February 2020 REVISIONS	CONT SECT JOB HIGHWAY
04/2021 Updated X values.	DIST COUNTY SHEET NO.



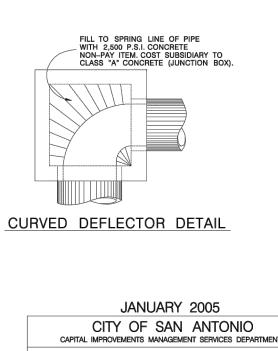


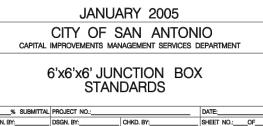


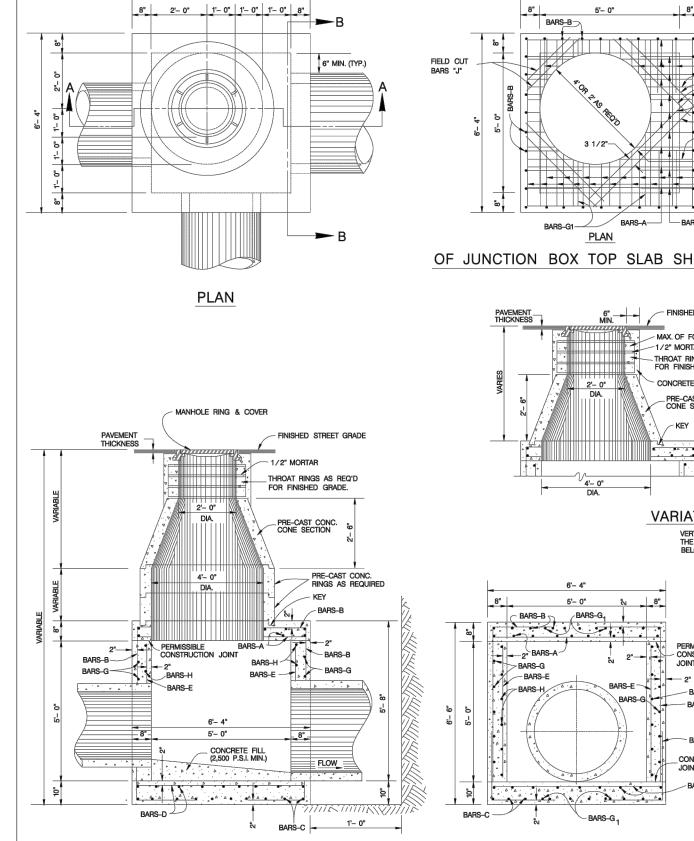
SCHI	EDULE	FOR	REINF	ORCING	STEE	L					
SHAPE	BAR	NO.	SIZE	SPACING	LENGTH	WEIGHT					
STRAIGHT	A	21	4	9" O.C.	7'- 1"	99					
	В	46	5	8" O.C.	8'- 6"	408					
	С	46	5	8" O.C.	5'- 3"	252					
STRAIGHT	D	21	4	9" O.C.	7'- 1°	99					
STRAIGHT	E	28	3	12" O.C.	5'- 11"	62					
STRAIGHT	G	20	4	12" O.C.	7'- 1"	95					
STRAIGHT	G	8	4	AS SHOWN	6'- 1"	33					
STRAIGHT	н	27	3	12" O.C.	7'- 1"	72					
STRAIGHT	J	8	6	3 1/2" O.C.	4'- 11"	59					
					TOTAL	1,179 LBS.					
CLASS "A" CONCRETE - 6.94 CU. YDS. (DOES NOT EXCLUDE MANHOLE OPENINGS OR PIPE OPENING)											

* NOTE: BAR SIZE AND SPACING BASED ON SPANS AS SHOWN - ANY REVISIONS TO THESE SPANS

- SHALL INCLUDE A RE-DESIGN ON STEEL REQ'D.
- 1. CONCRETE FOR STRUCTURE SHALL BE CLASS "A" 3,000 P.S.I. AT 28 DAYS.
- 2. ALL EXPOSED EDGES SHALL BE CHAMFERED 3 /4".
- REINFORCING STEEL SHALL BE NEW BILLET STEEL, INTERMEDIATE GRADE, ASTM A-15. THE DEFORMATION SHALL CONFORM TO ASTM A-305.
- 4. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- 5. ALL BARS INTERCEPTING MANHOLE OPENING AND REINFORCED CONCRETE PIPE SHALL BE FIELD-CUT.
- 6. WHERE LAPPING OF BARS IS REQUIRED, A MINIMUM LAP OF 33 DIAMETERS SHALL BE USED.
- 7. INVERT OF JUNCTION BOX TO BE SHAPED WITH CONCRETE
- FILL (2,500 P.S.I. MIN.) TO EFFECT DRAINAGE TO OUTLET PIPE. COST SUBSIDIARY TO CLASS "A" CONCRETE (JUNCTION BOXES).
- 8. PAYMENT FOR ALL EXCAVATION, BACKFILLING, CONCRETE, REINFORCING STEEL, VERTICAL STACK, RING AND COVER SHALL BE INCLUDED IN THE UNIT COST OF ITEM 403 -"STORM SEWER JUNCTION BOXES AND INLETS".







6'- 4"

6'- 4"

3 1/2"-

PLAN

<u>4'- 0"</u> DIA.

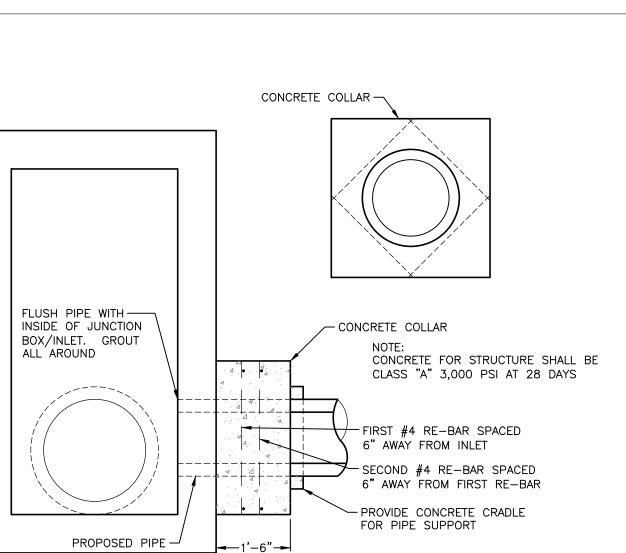
BARS-G

SECTION B-B

5'- 0"

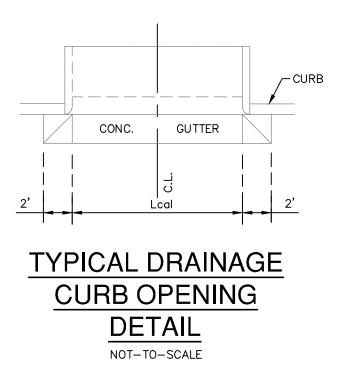
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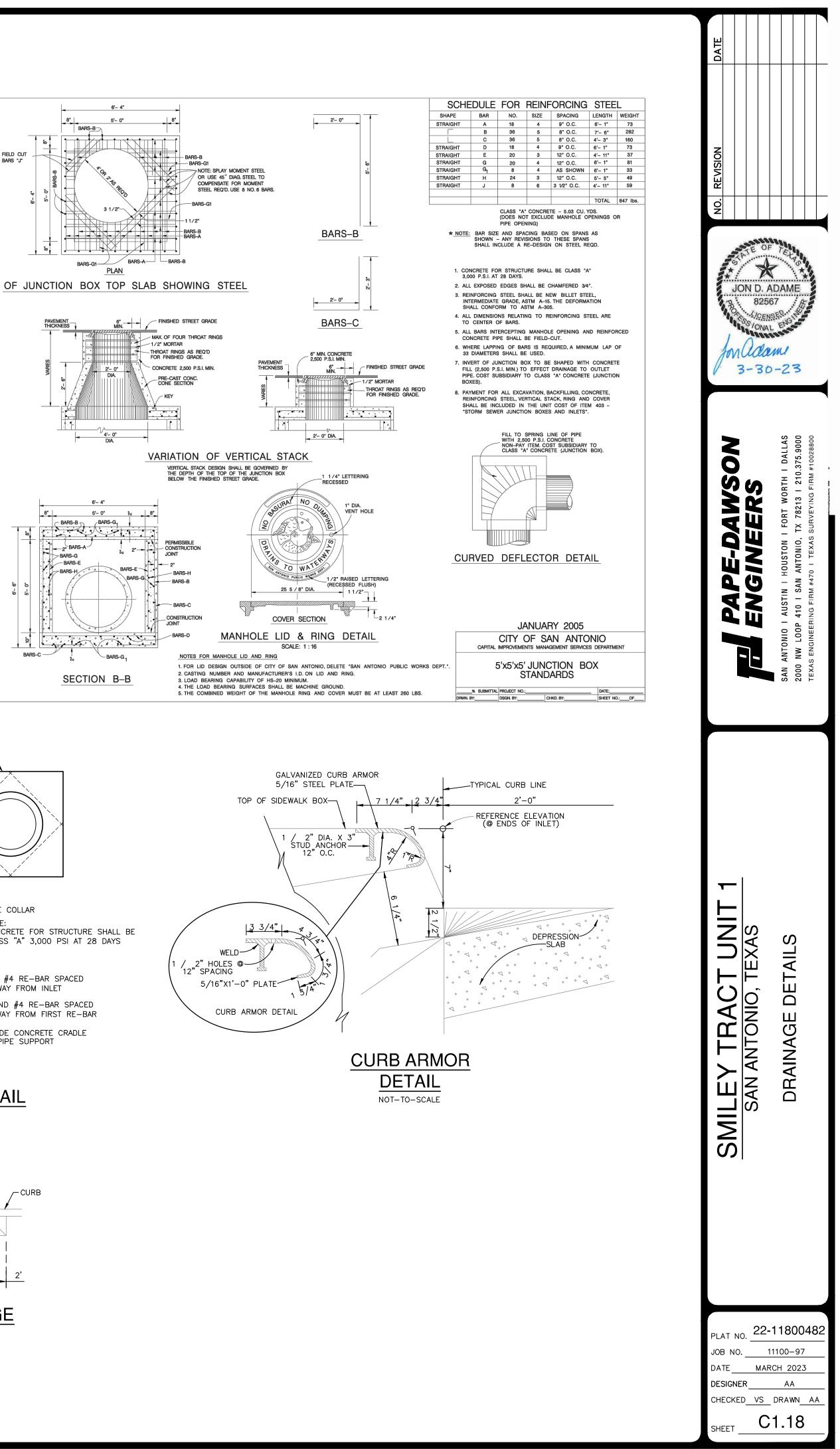
SECTION A-A

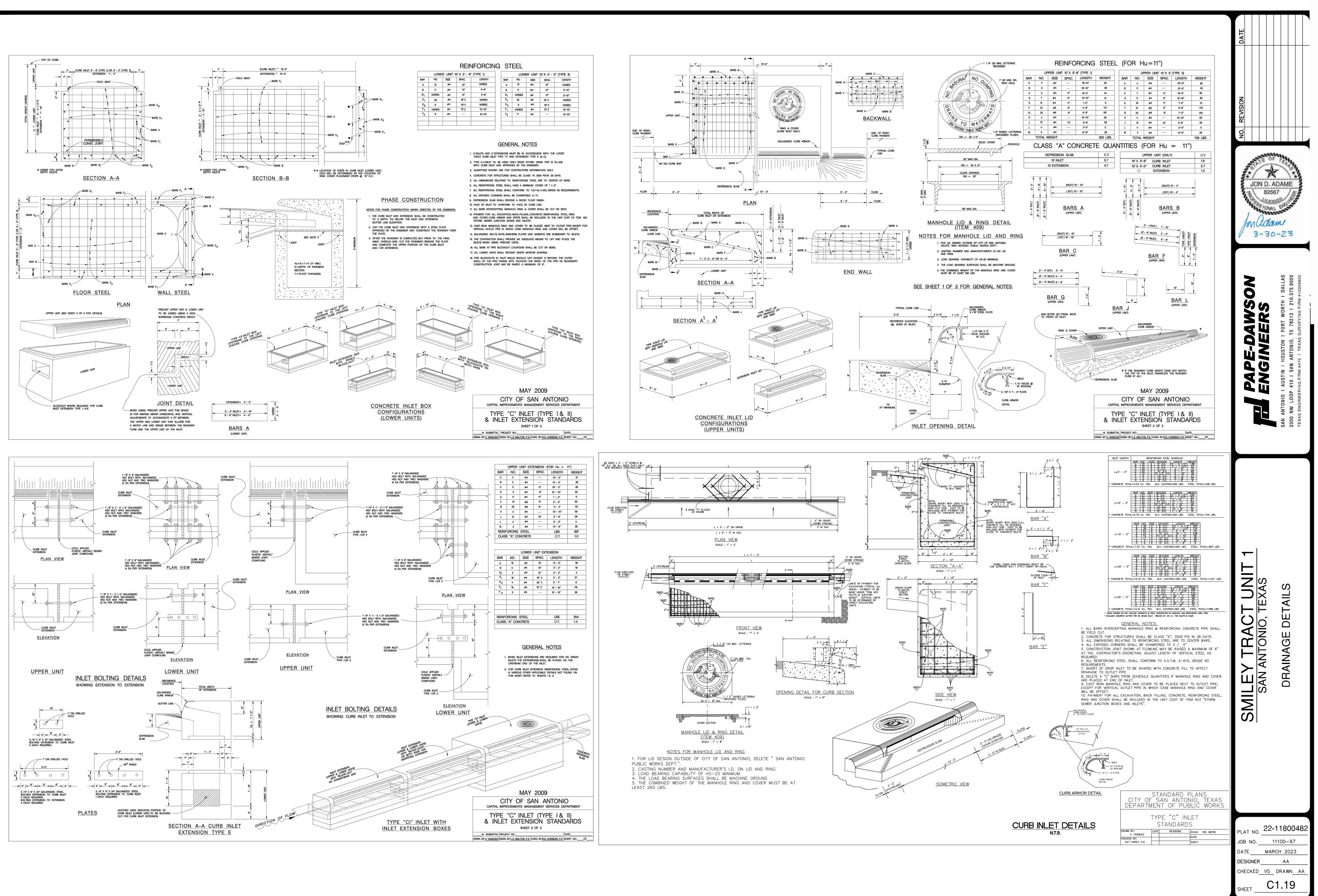


CONCRETE COLLAR DETAIL

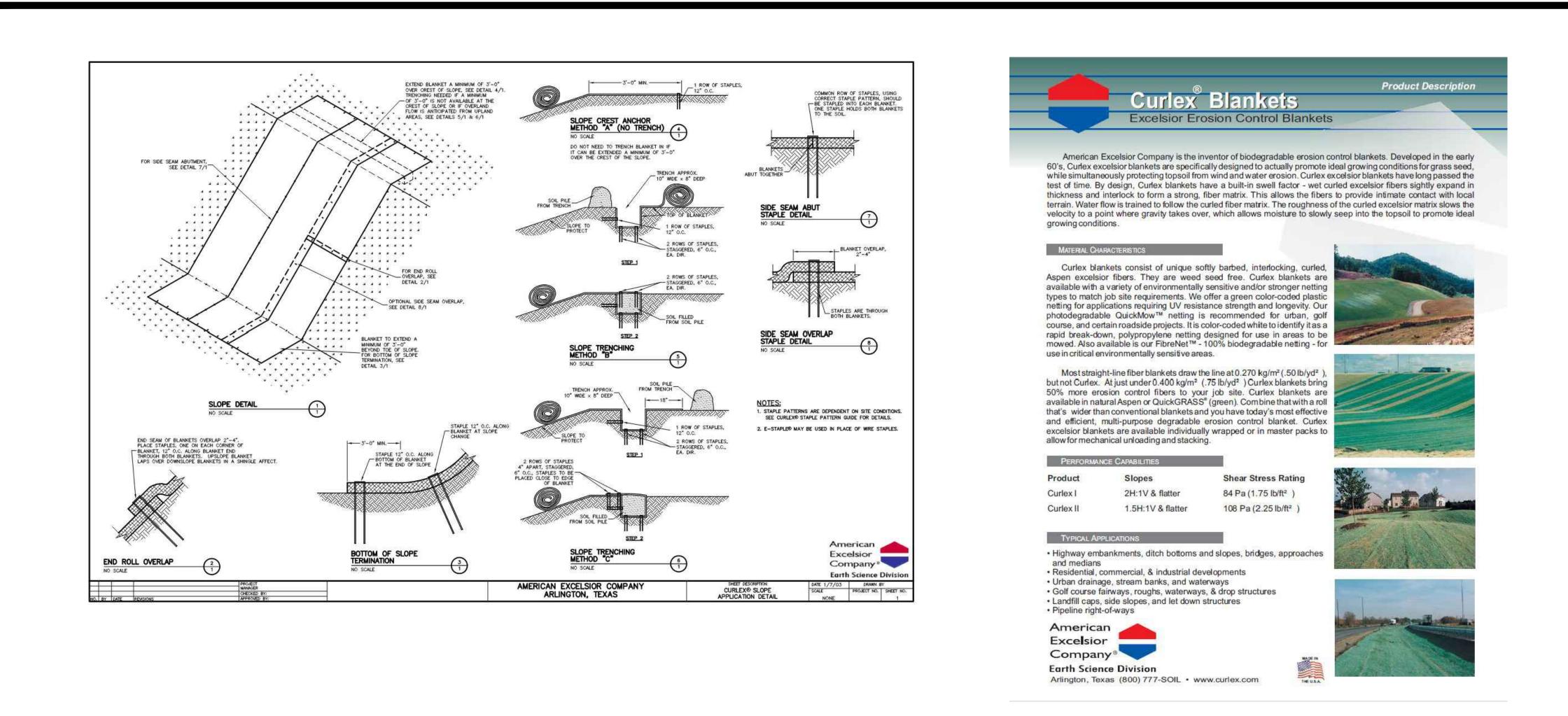
NOT-TO-SCALE

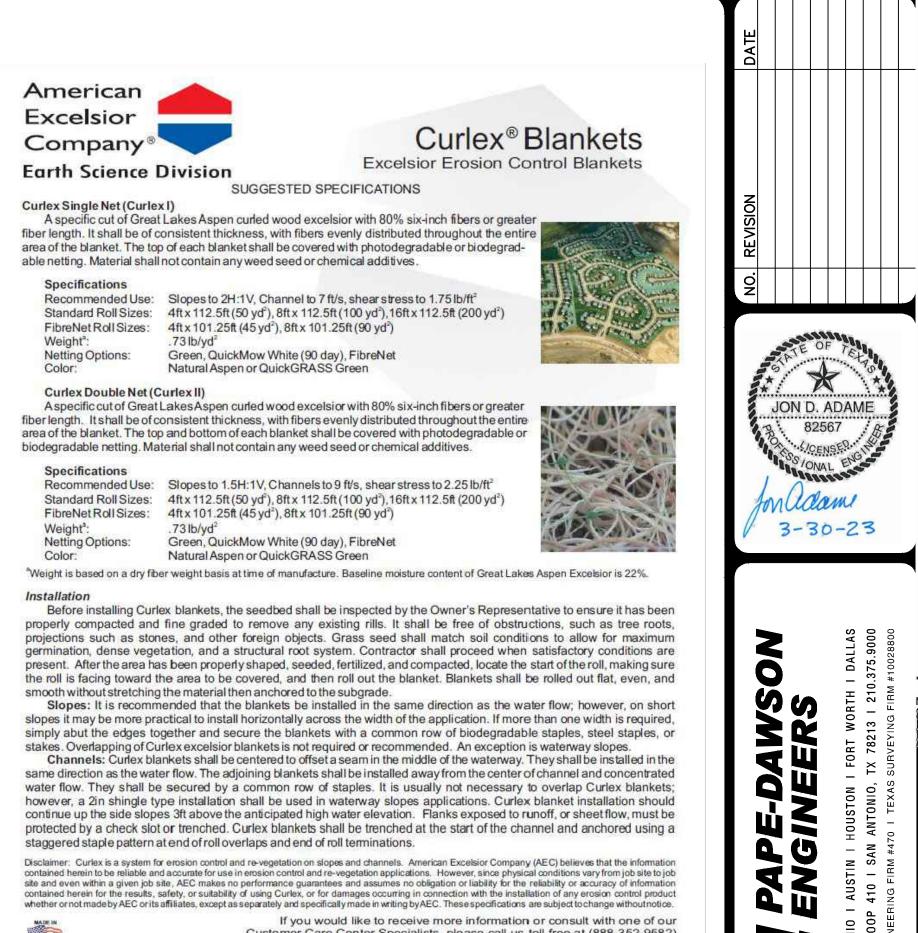






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THE USA

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SMILEY TRACT UNIT SAN ANTONIO, TEXAS

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MARCH 2023

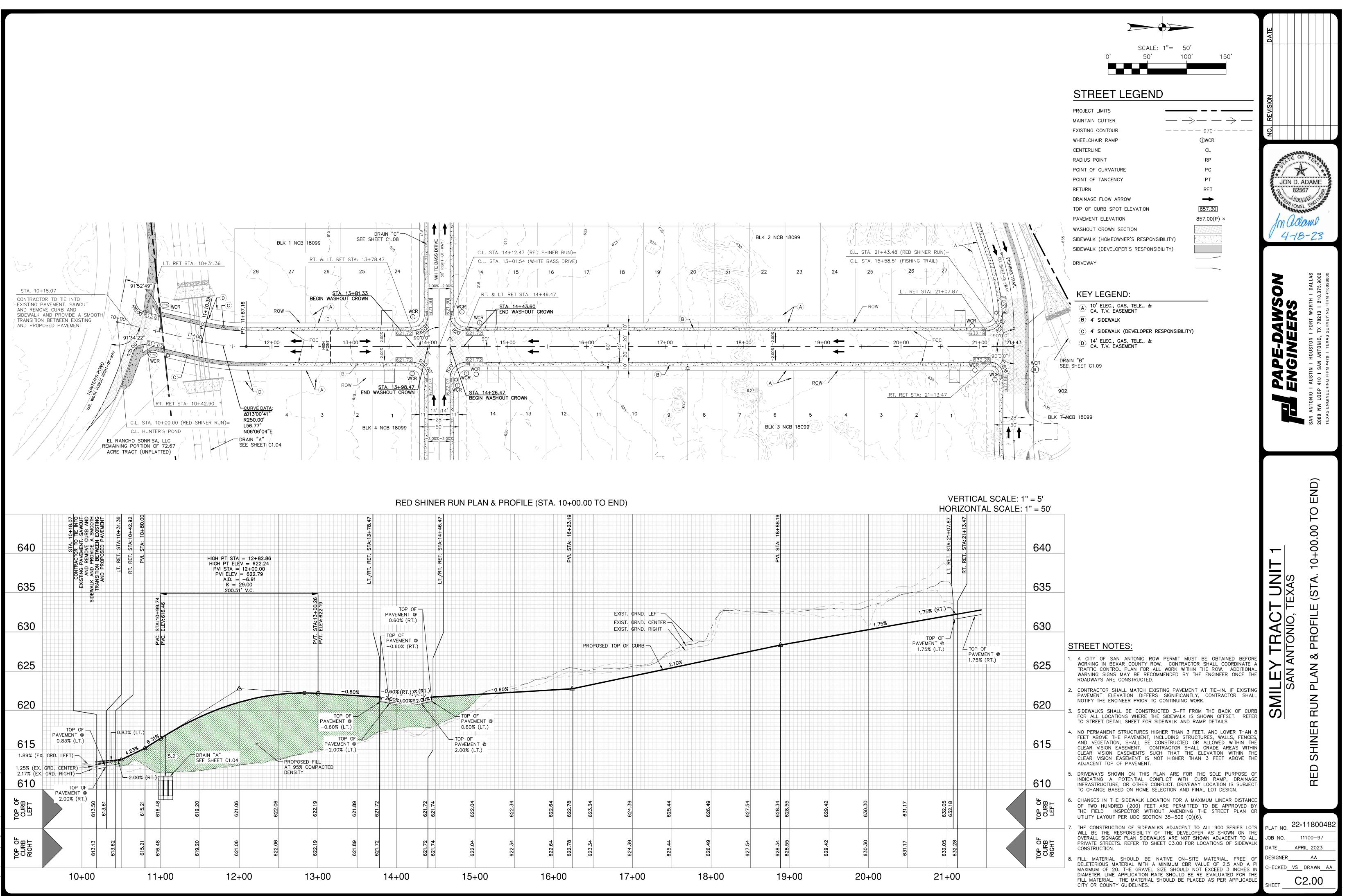
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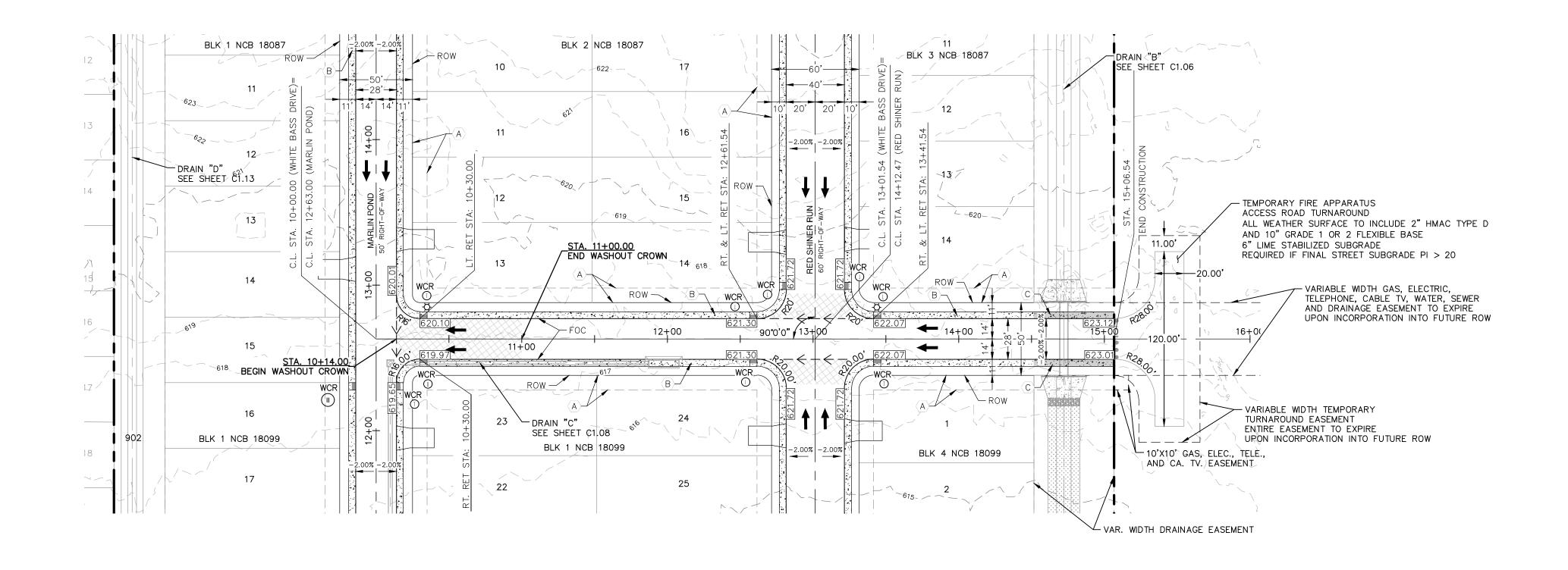
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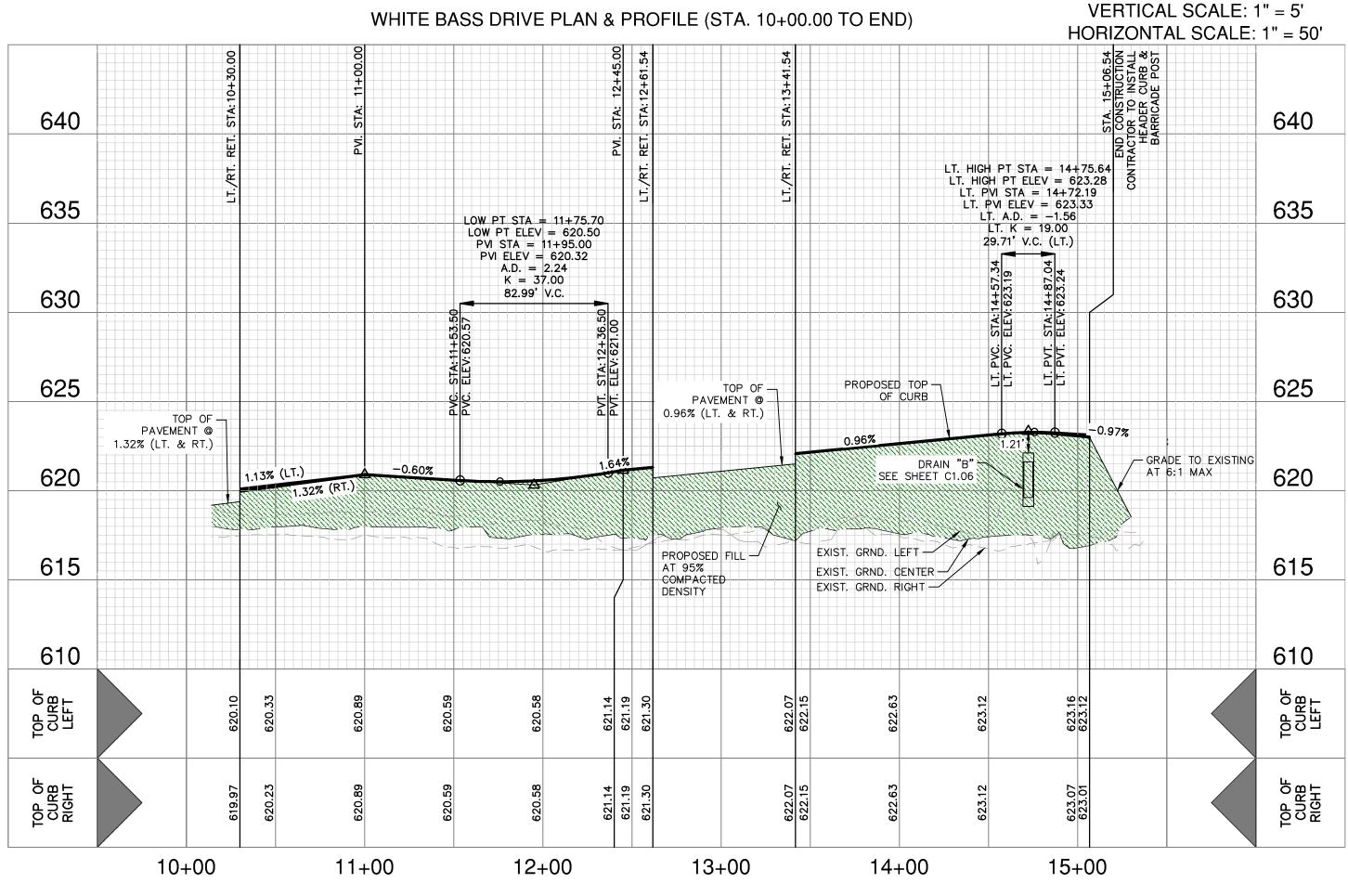
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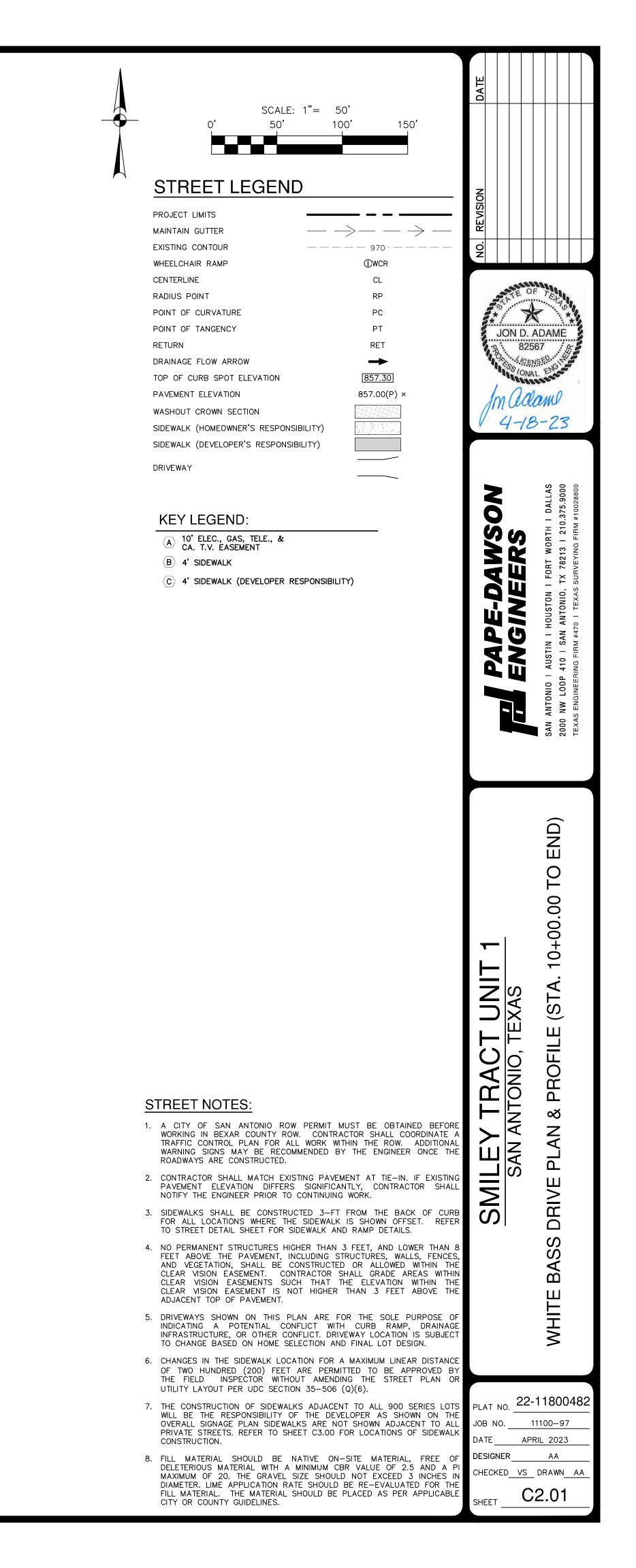
DESIGNER_

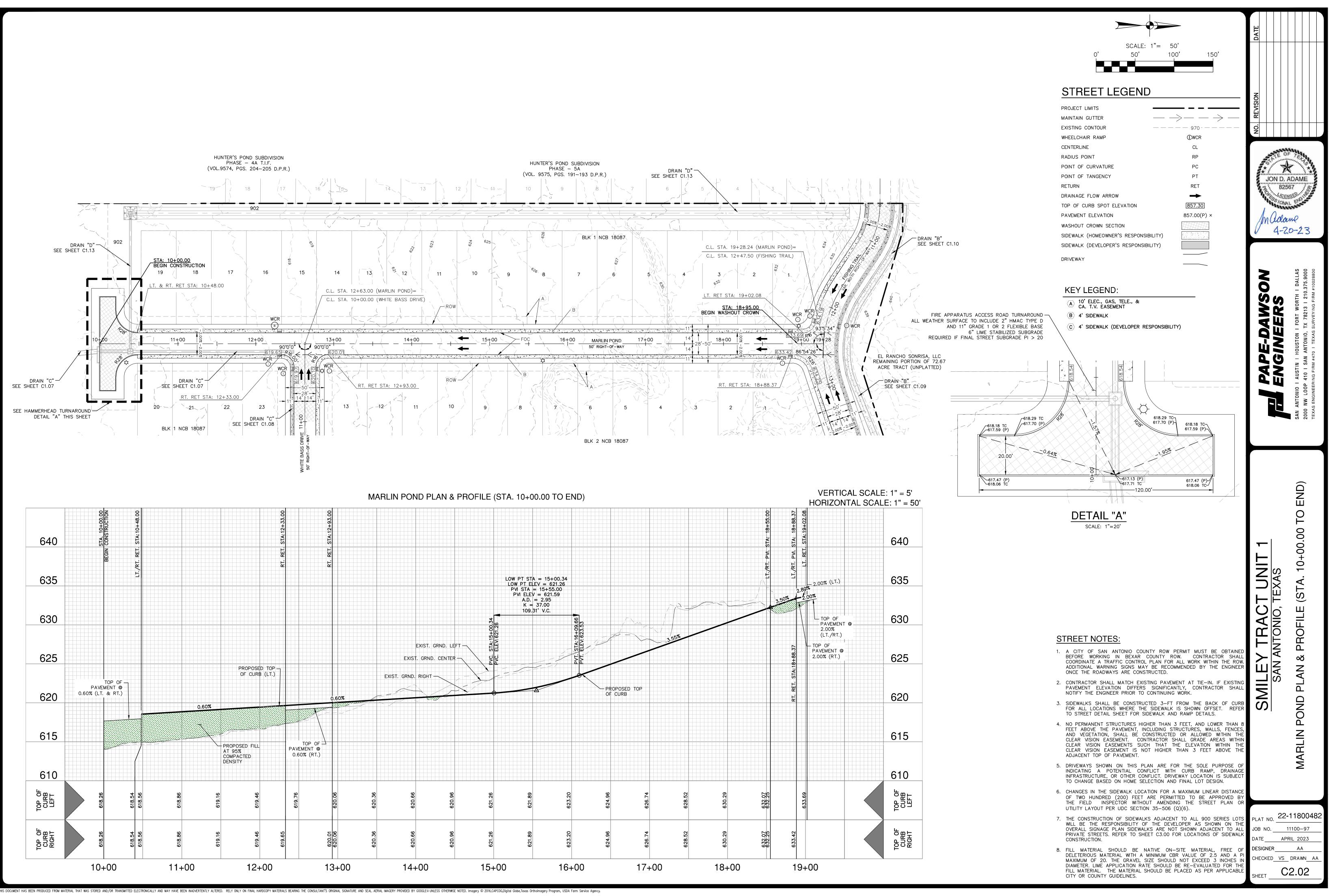
SHEET

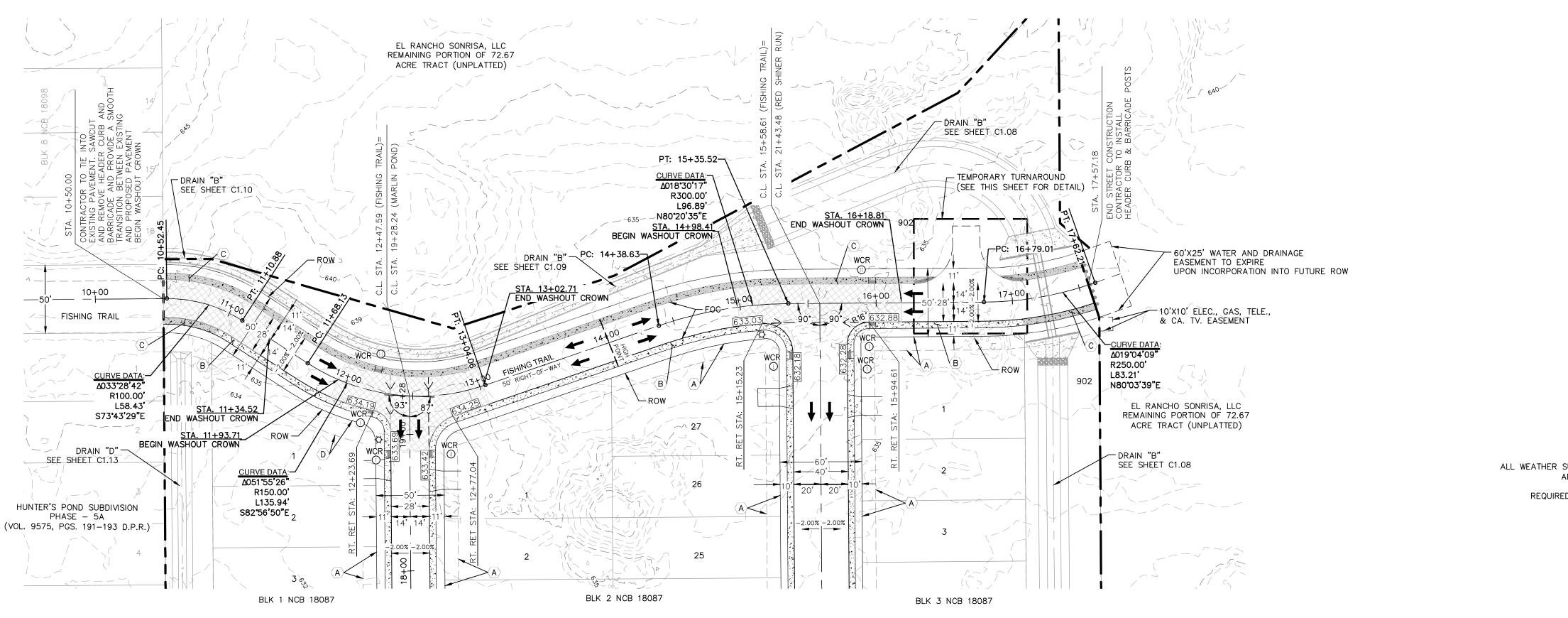


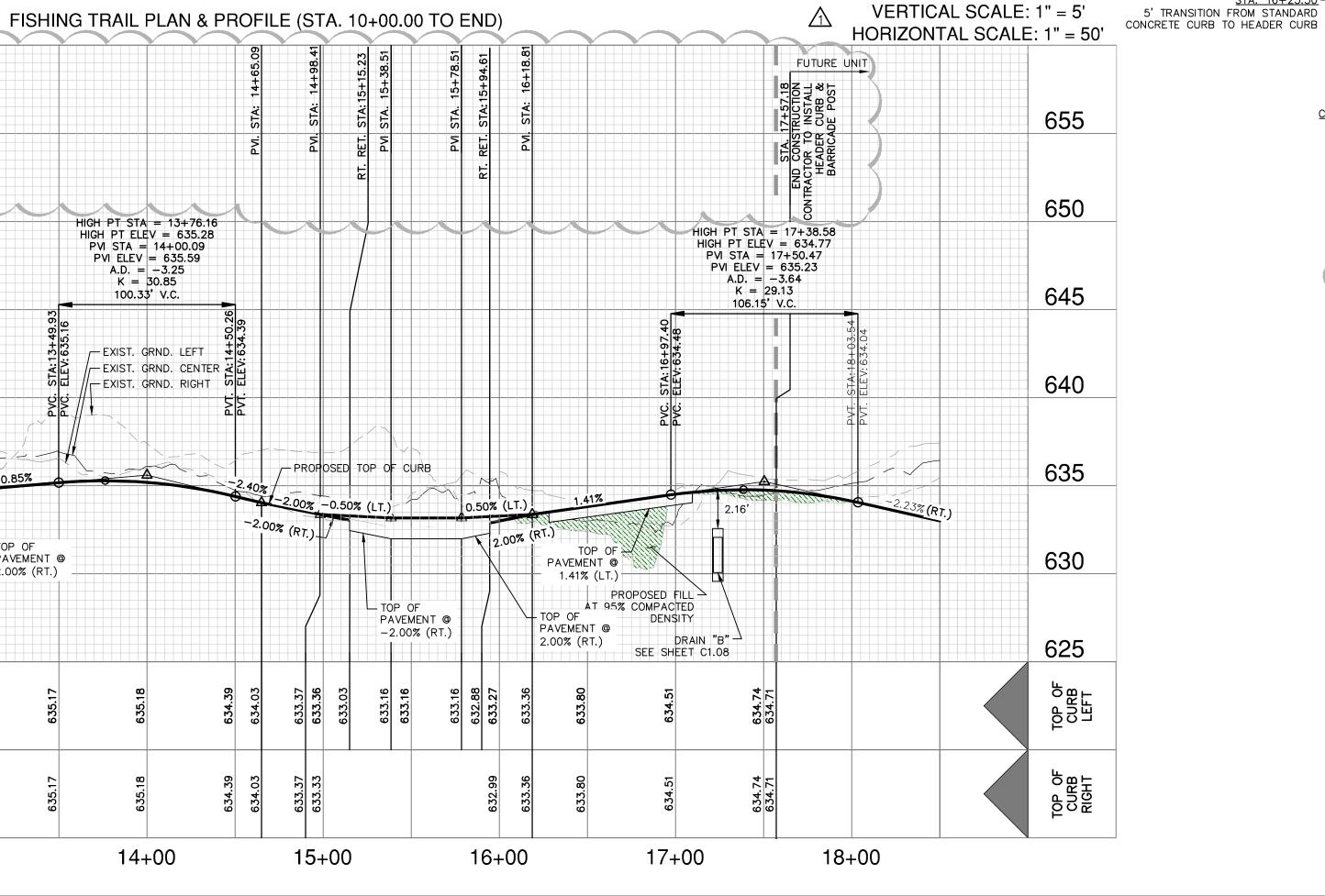


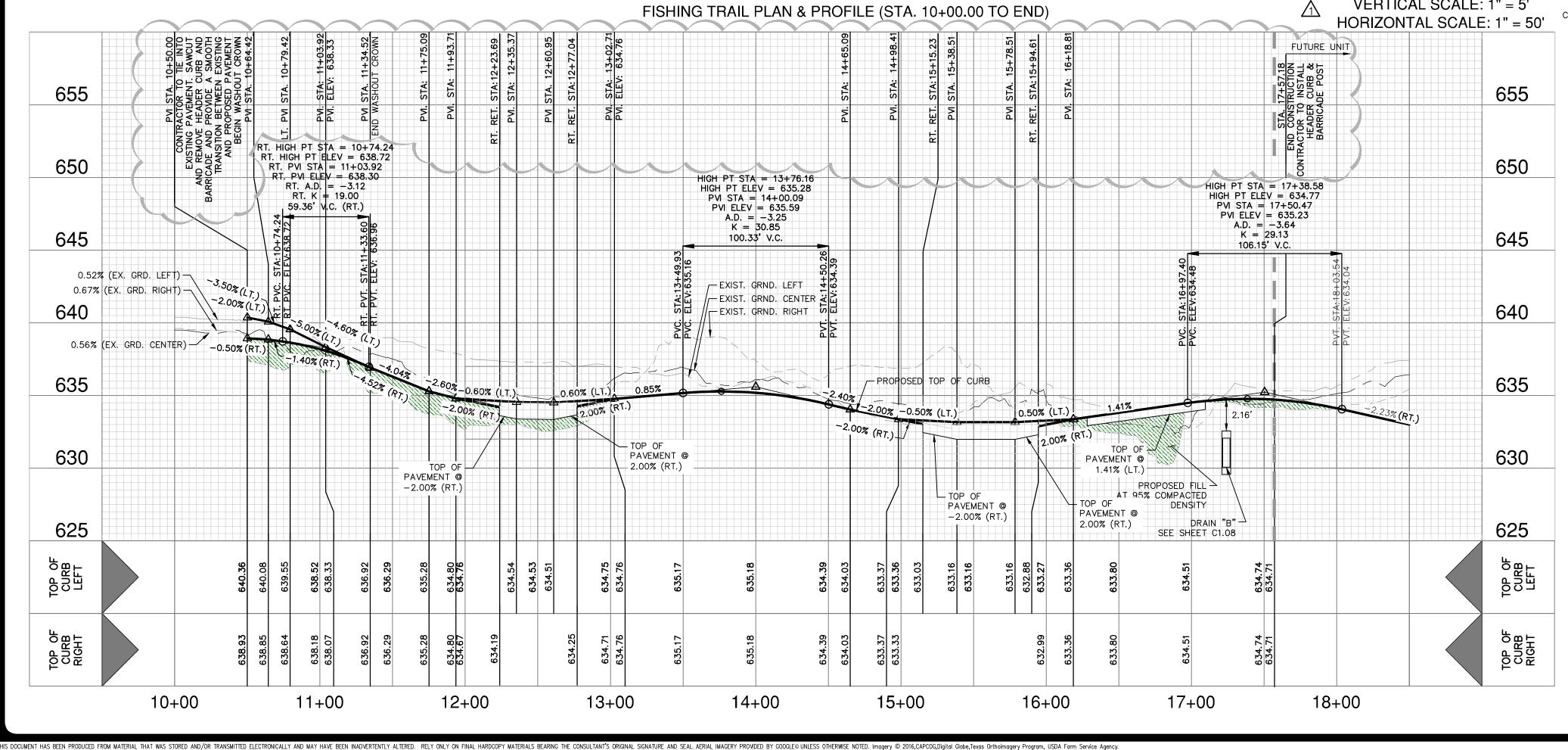




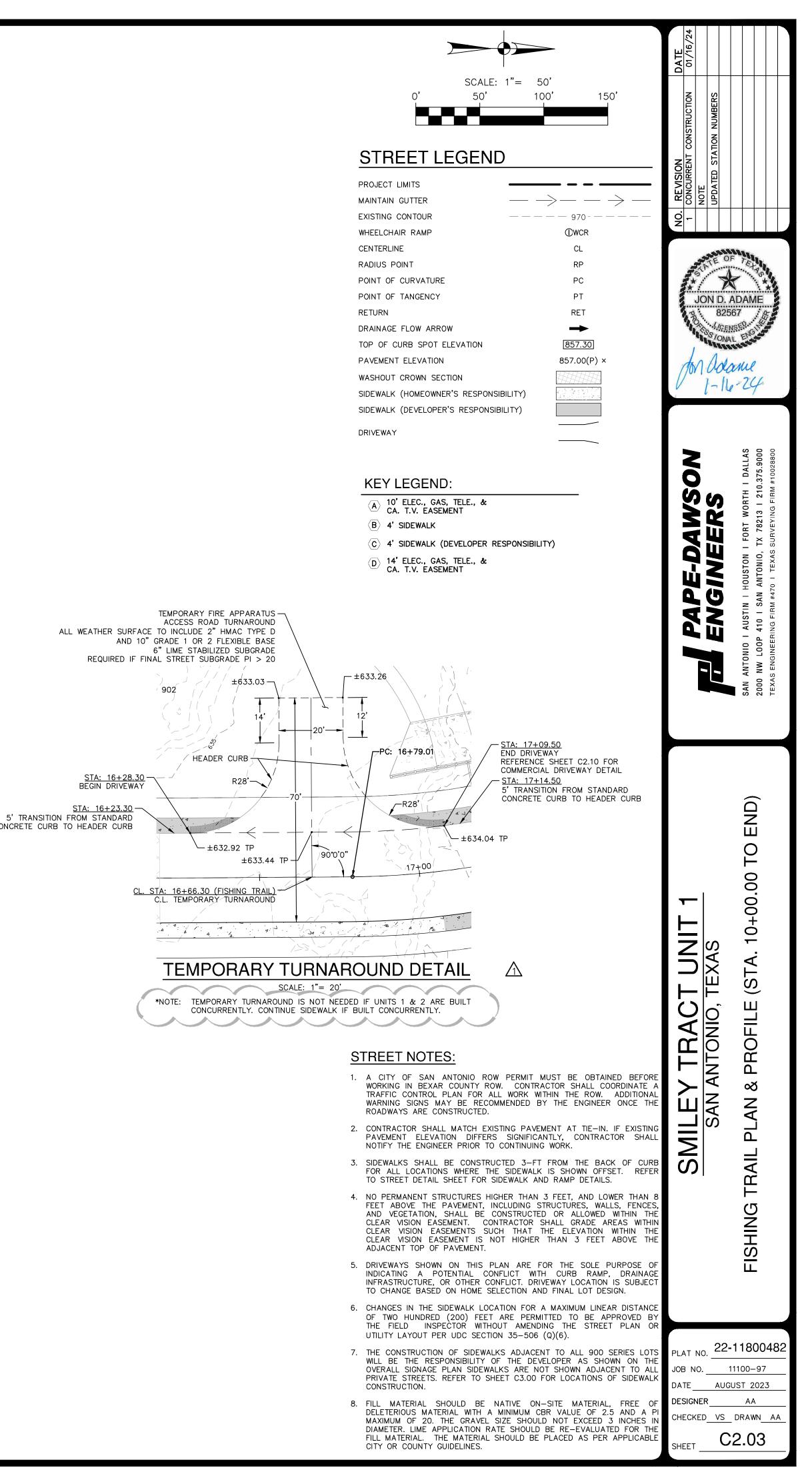


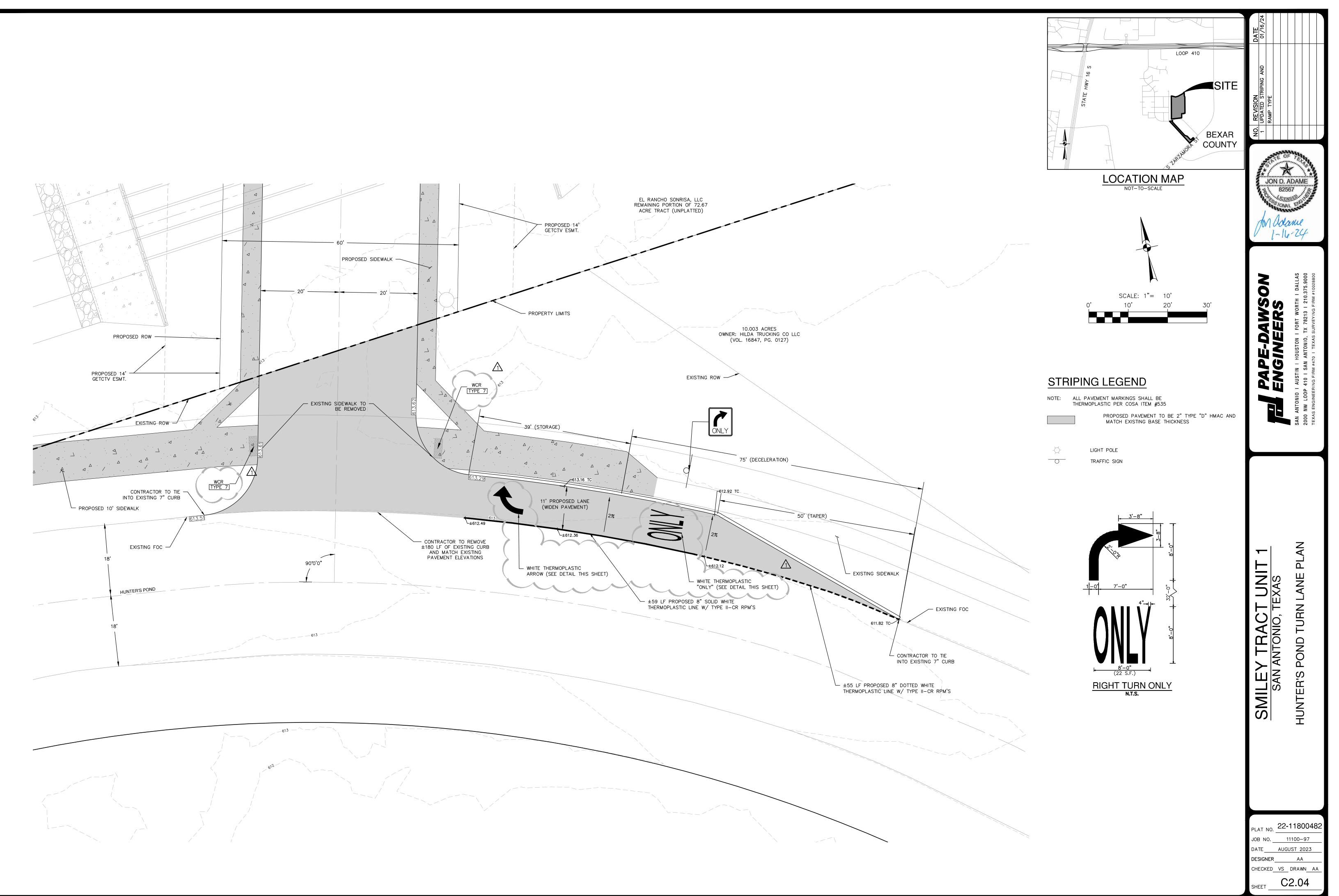






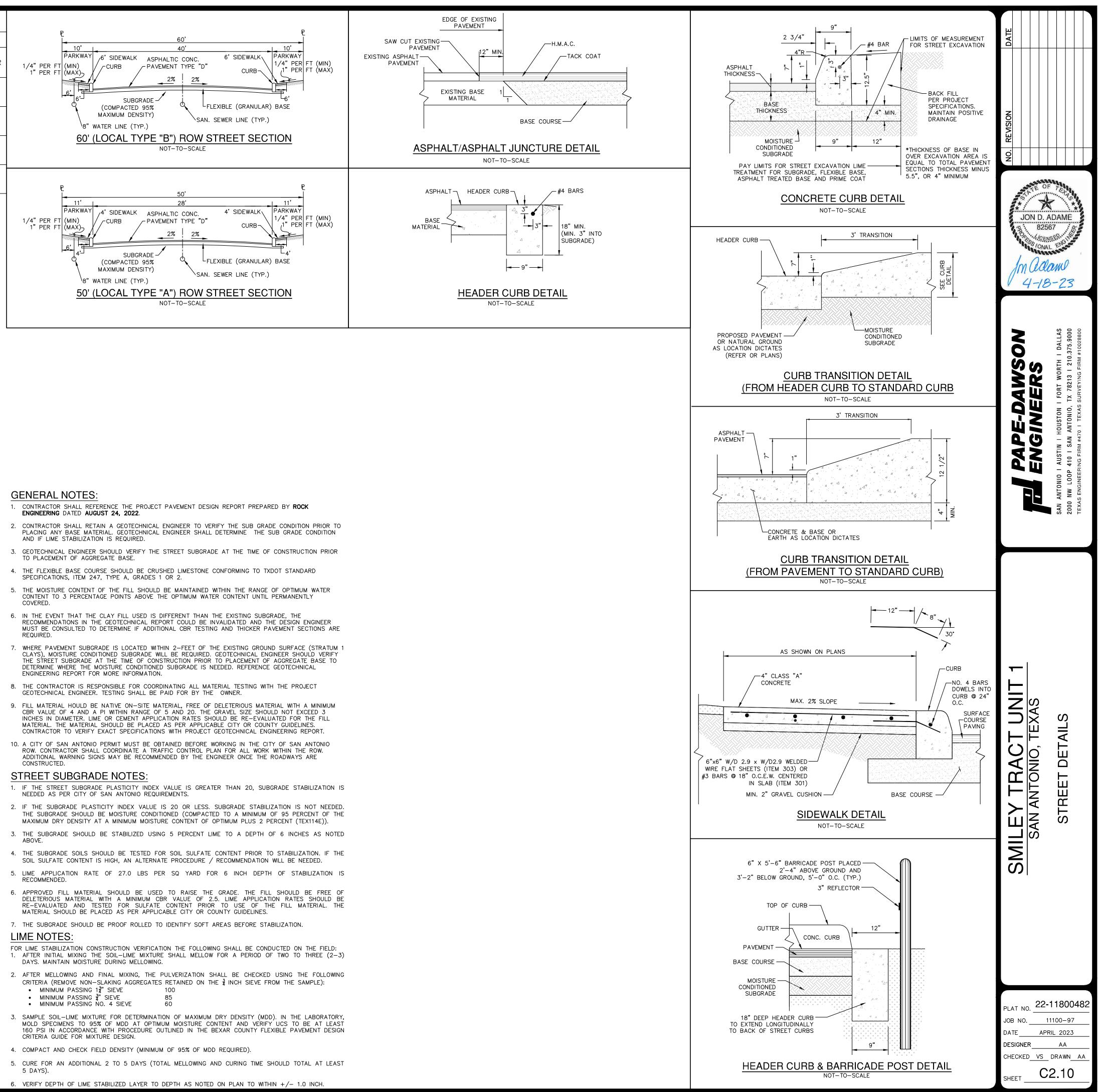
STA: 16+28.30 BEGIN DRIVEWAY



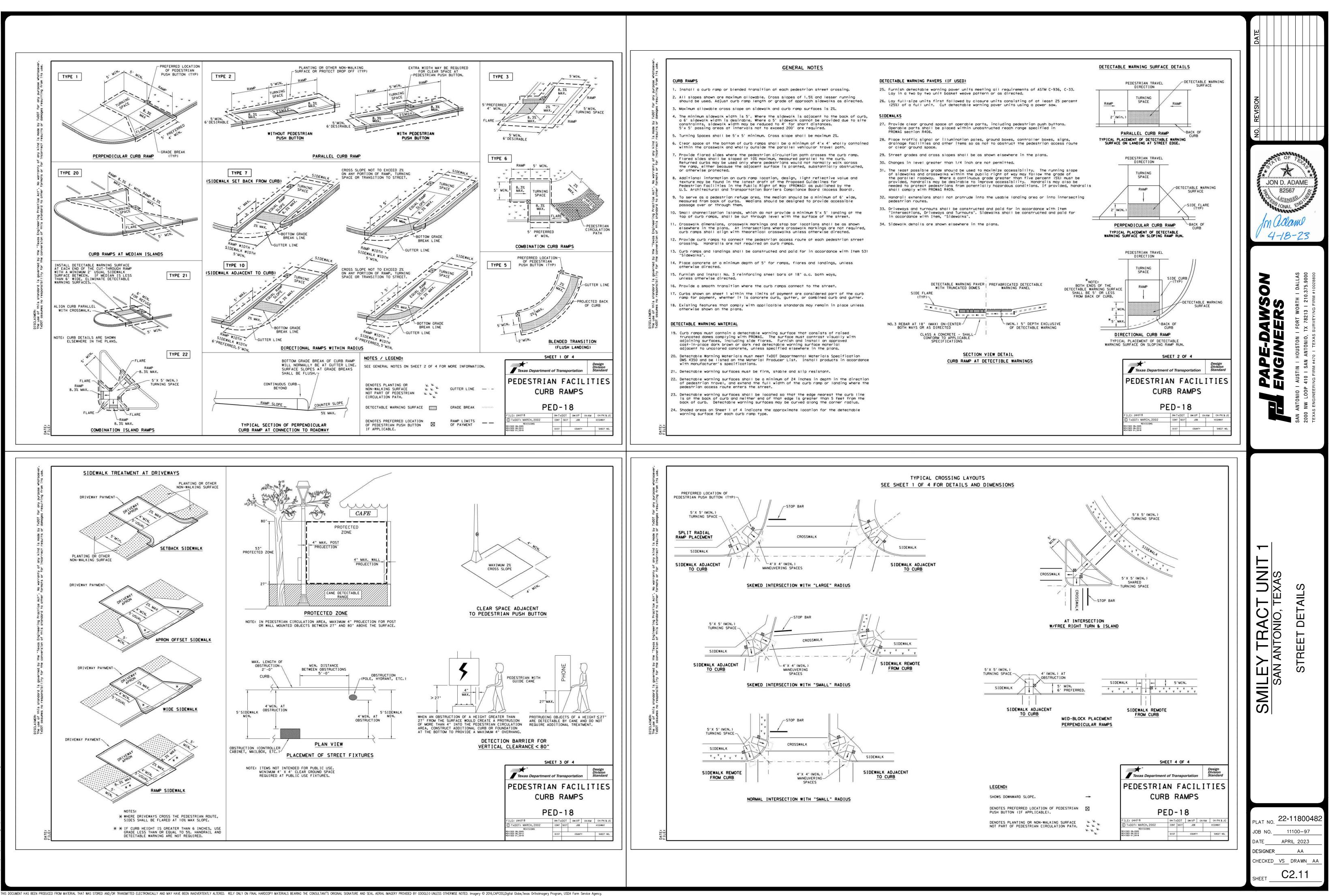


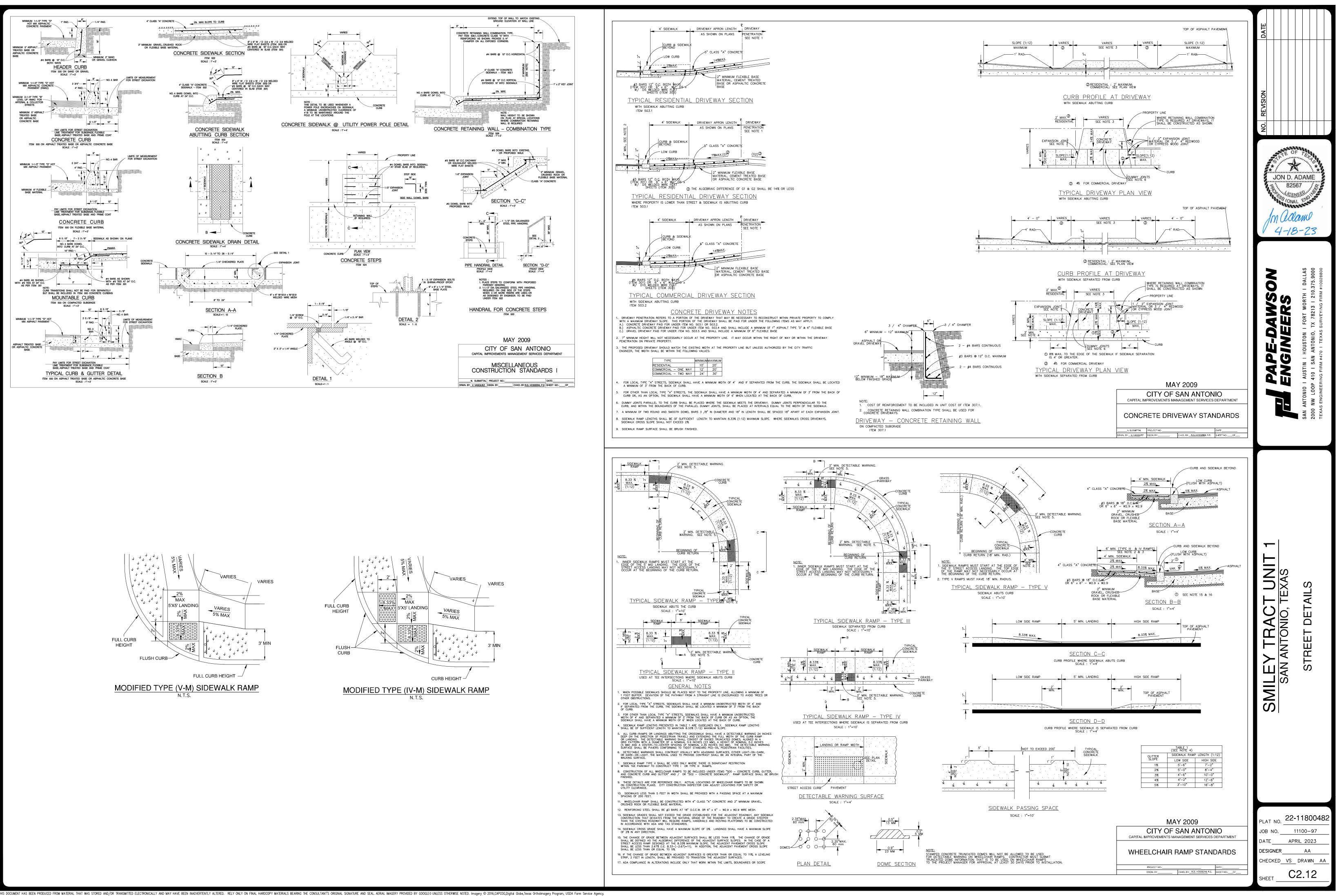


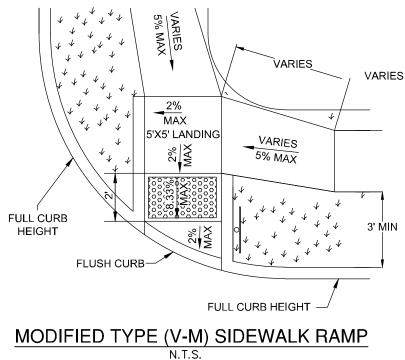
		F	PAVEMEN	T SECTIO	N DETAIL			
STREET NAME	STATION	TYPE "D" HMAC	TYPE "C" HMAC	CRUSHED LIMESTONE BASE	STABILIZED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NUMBE
RED SHINER RUN	1+00.00 TO END	2"	2"	18"	6*	NO	4.0	4.28
WHITE BASS DRIVE	1+00.00 TO END	2"	_	11"	6*	NO	4.0	2.42
MARLIN POND	1+00.00 TO END	2"	_	11"	6*	NO	4.0	2.42
FISHING TRAIL	1+00.00 TO END	2"	_	11"	6*	NO	4.0	2.42

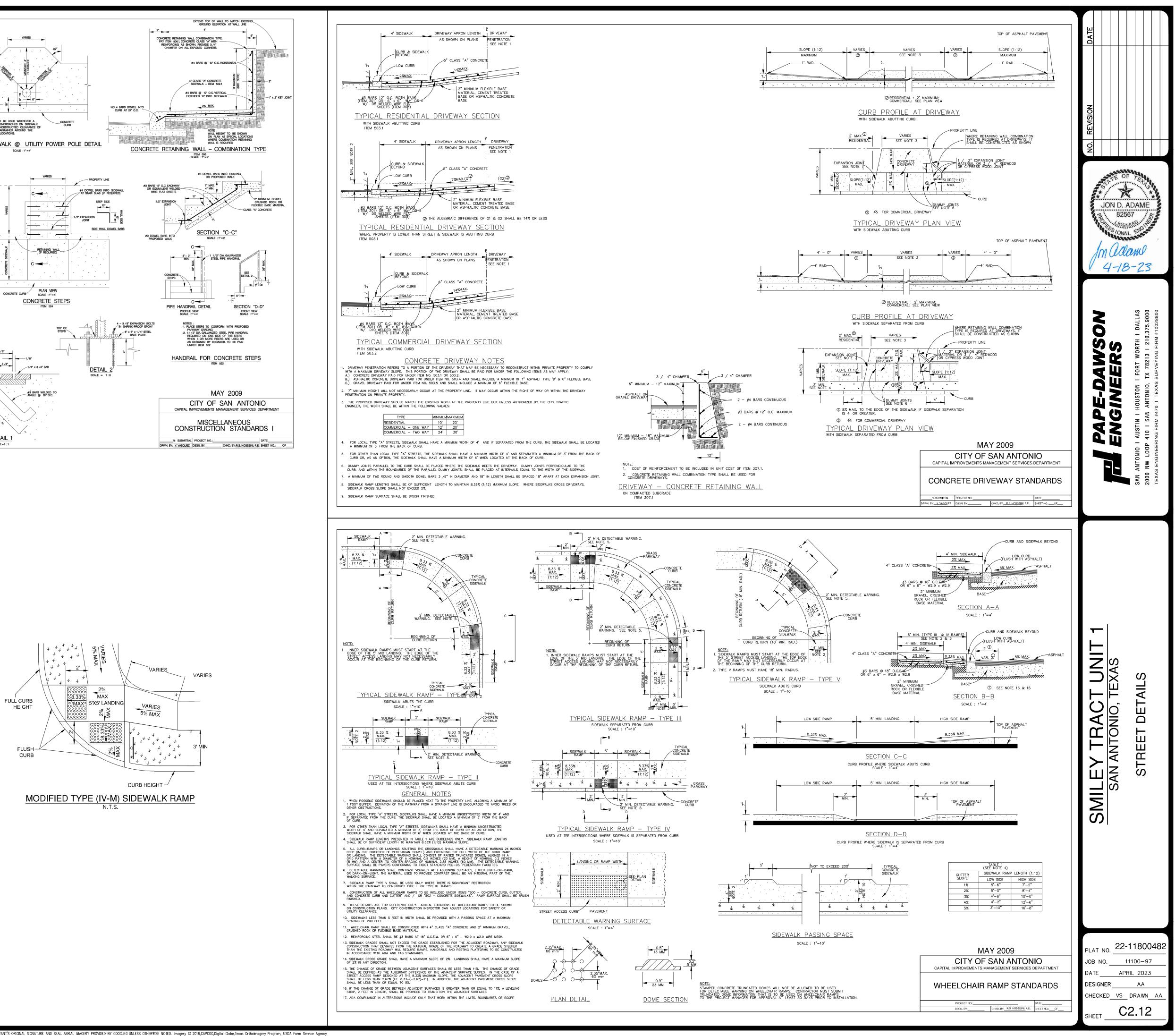


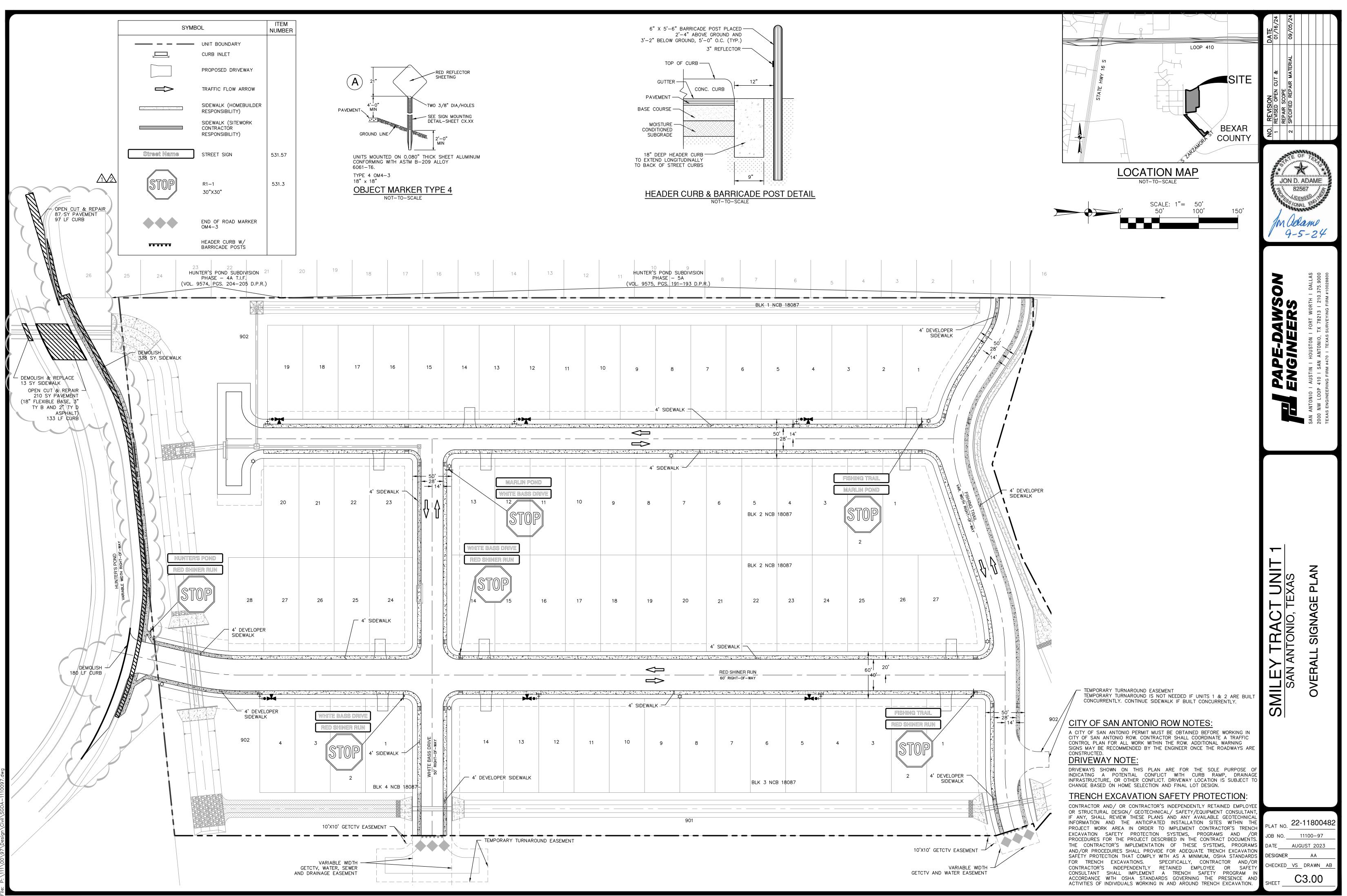
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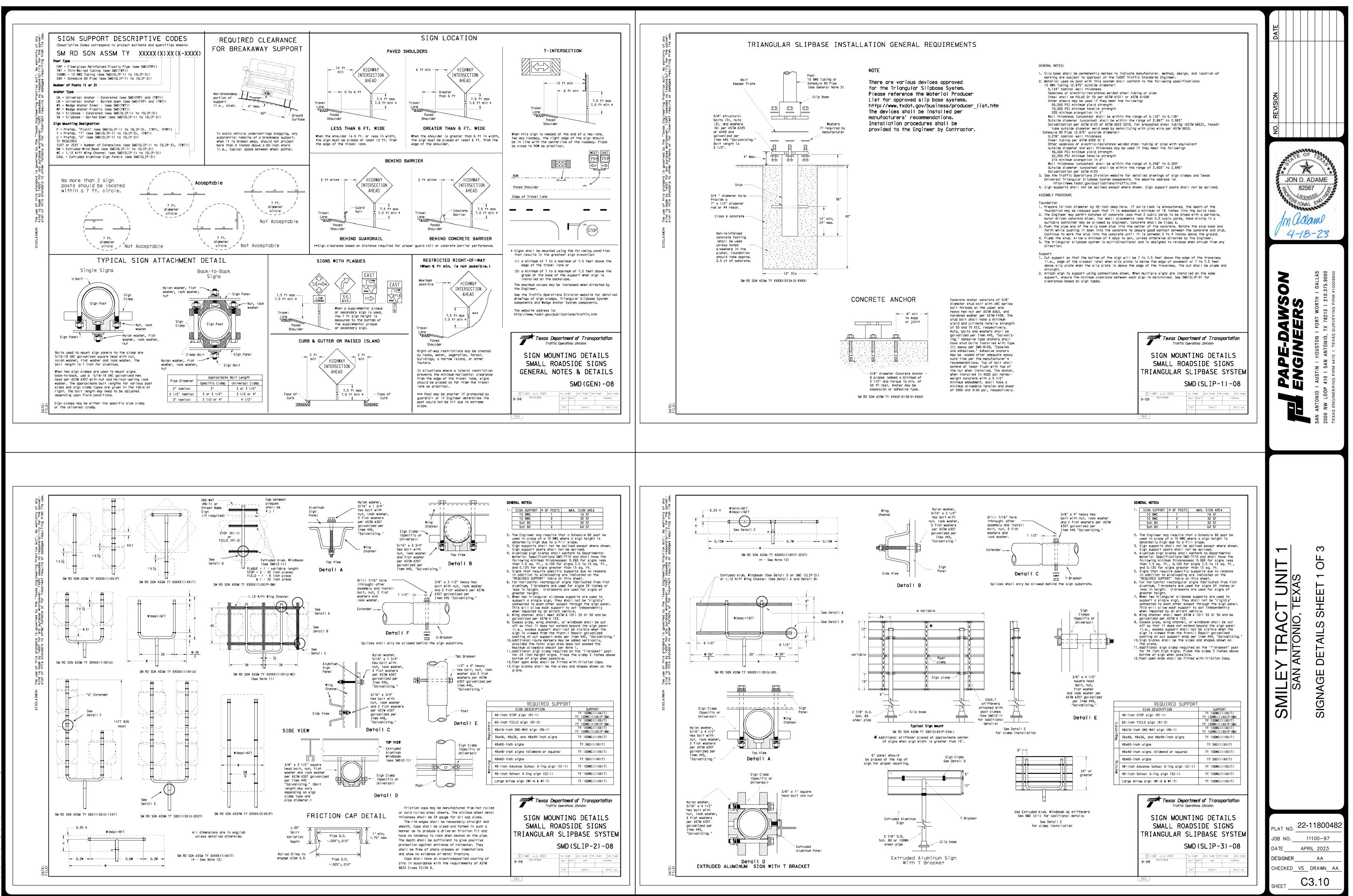






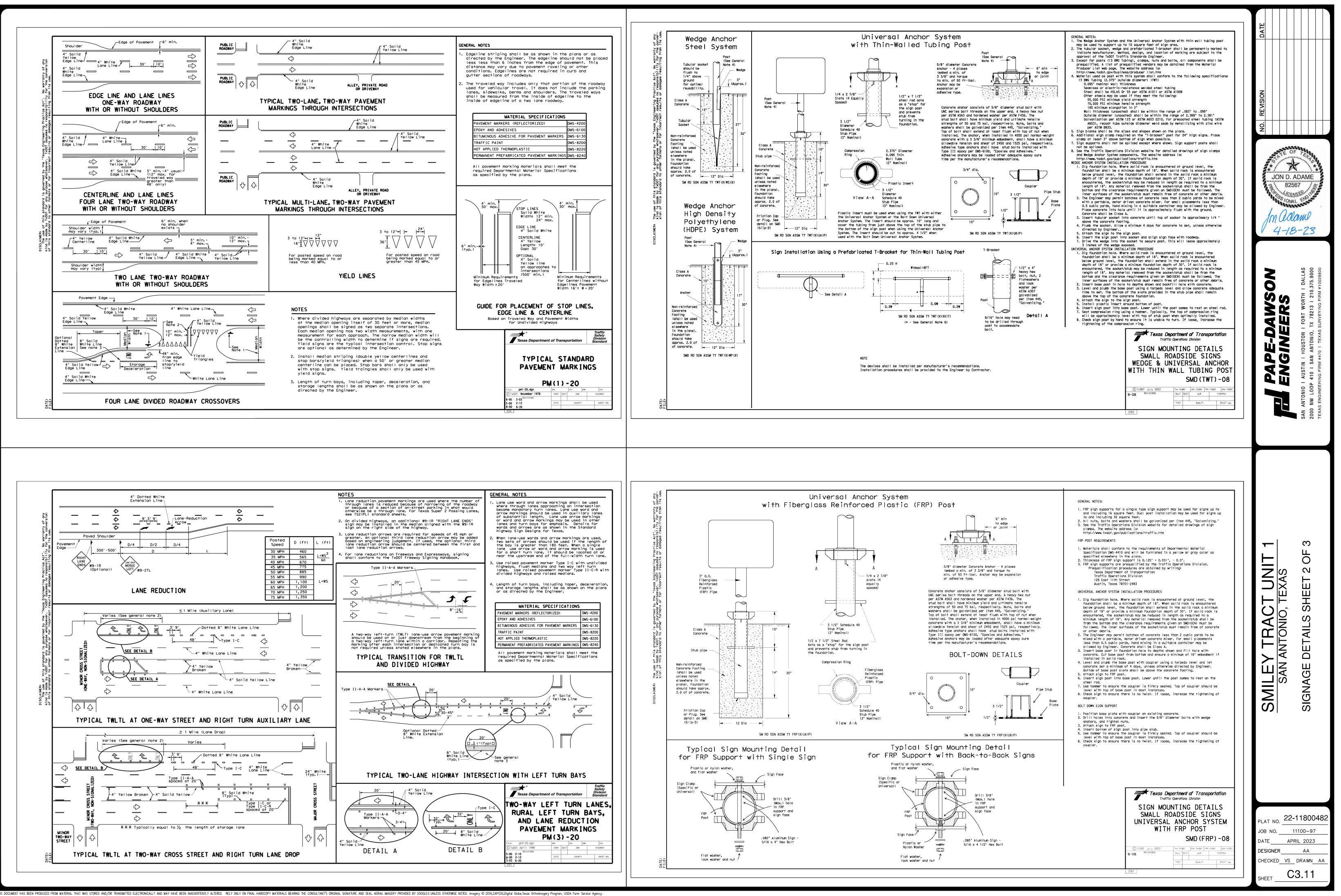
	15		14	13	12	11	10 TER'S POND SU PHASE - 5 9575, PGS. 191-	A	8	7 BLK_1_NCB	6	5	4	3	2
															4' DEVELO SIDEW
	14	13	12	11	10	9	8	7	6	5 5	4	3	2		I / / / /
							4' SIDEWAI								
						\neg	— 			50' 28	14' 3'—				
				<u></u> -						<u></u>					
			MARLIN PON HITE BASS DF 12 STOF		10	9	8	7	6	5 BLK 2 NCB 180	4 087		HING TRAIL	1	
		e bass d shiner f STOF		16	17	18	19	20	21	BLK 2 NCB 180	23	24	25	26	27
									SIDEWALK						
							</th <th></th> <th>RED SHINE</th> <th>RRUN</th> <th></th> <th></th> <th>60, 20</th> <th></th> <th></th>		RED SHINE	RRUN			60, 20		
¢			▶ 				EWALK	X					 	FISHING T	TRAIL
		14	13	12	11	10	9	8	7	6	5	4	3	STO	
	4' D		SIDEWALK											2	4' DE\

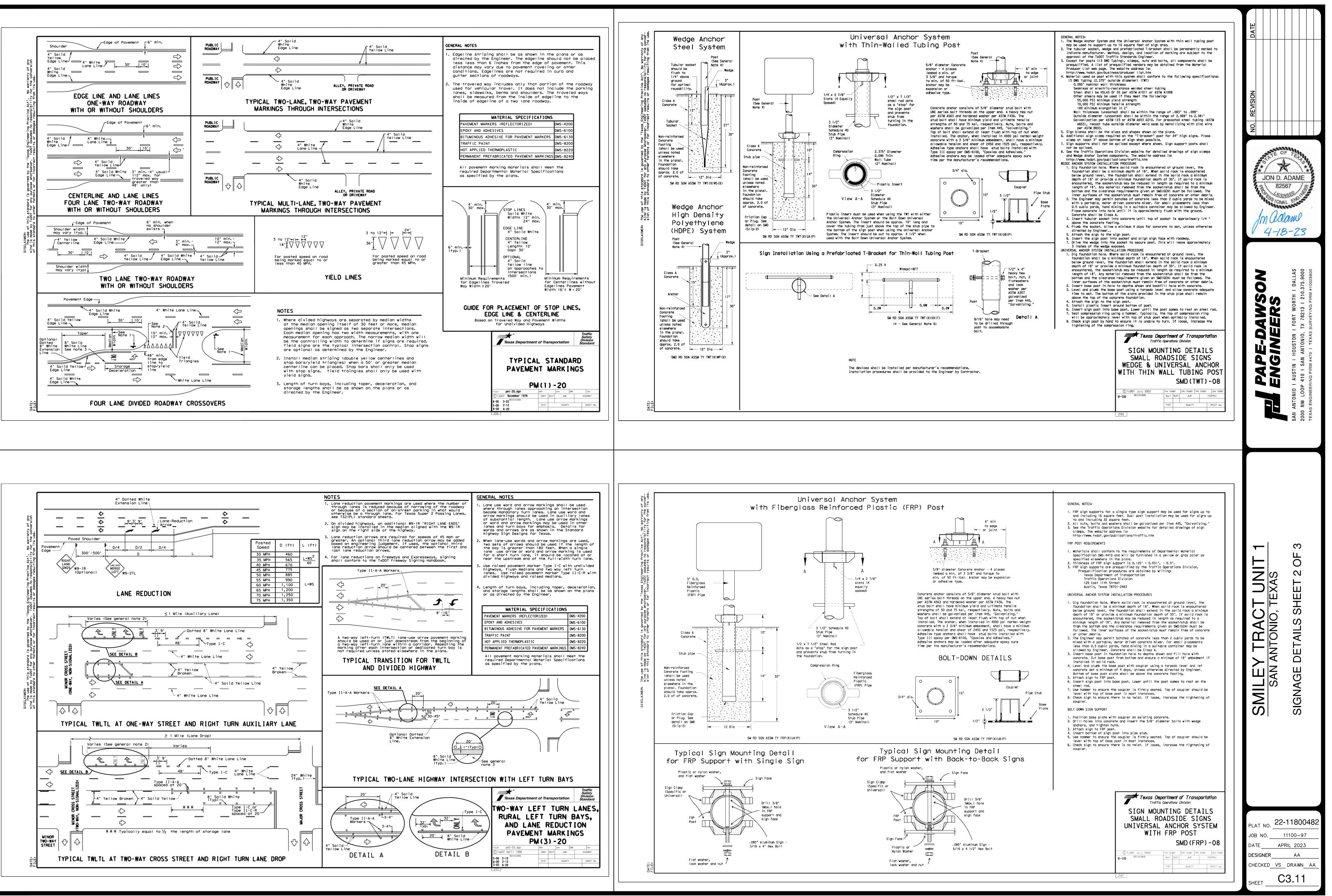
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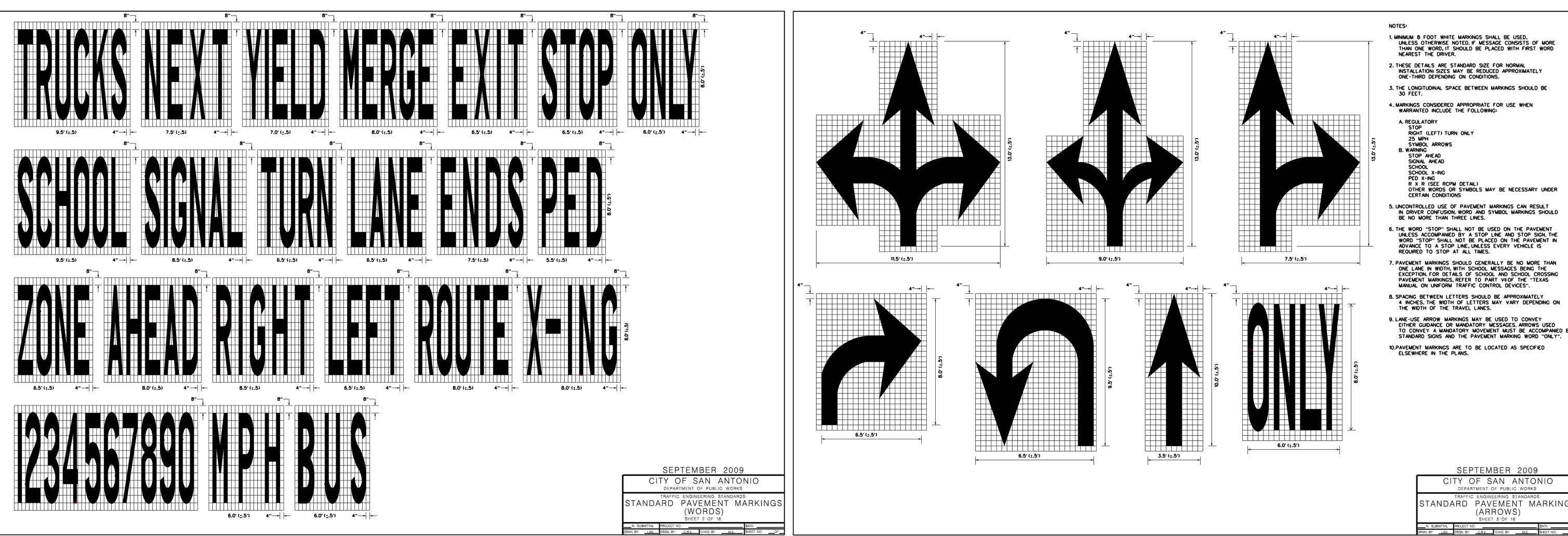


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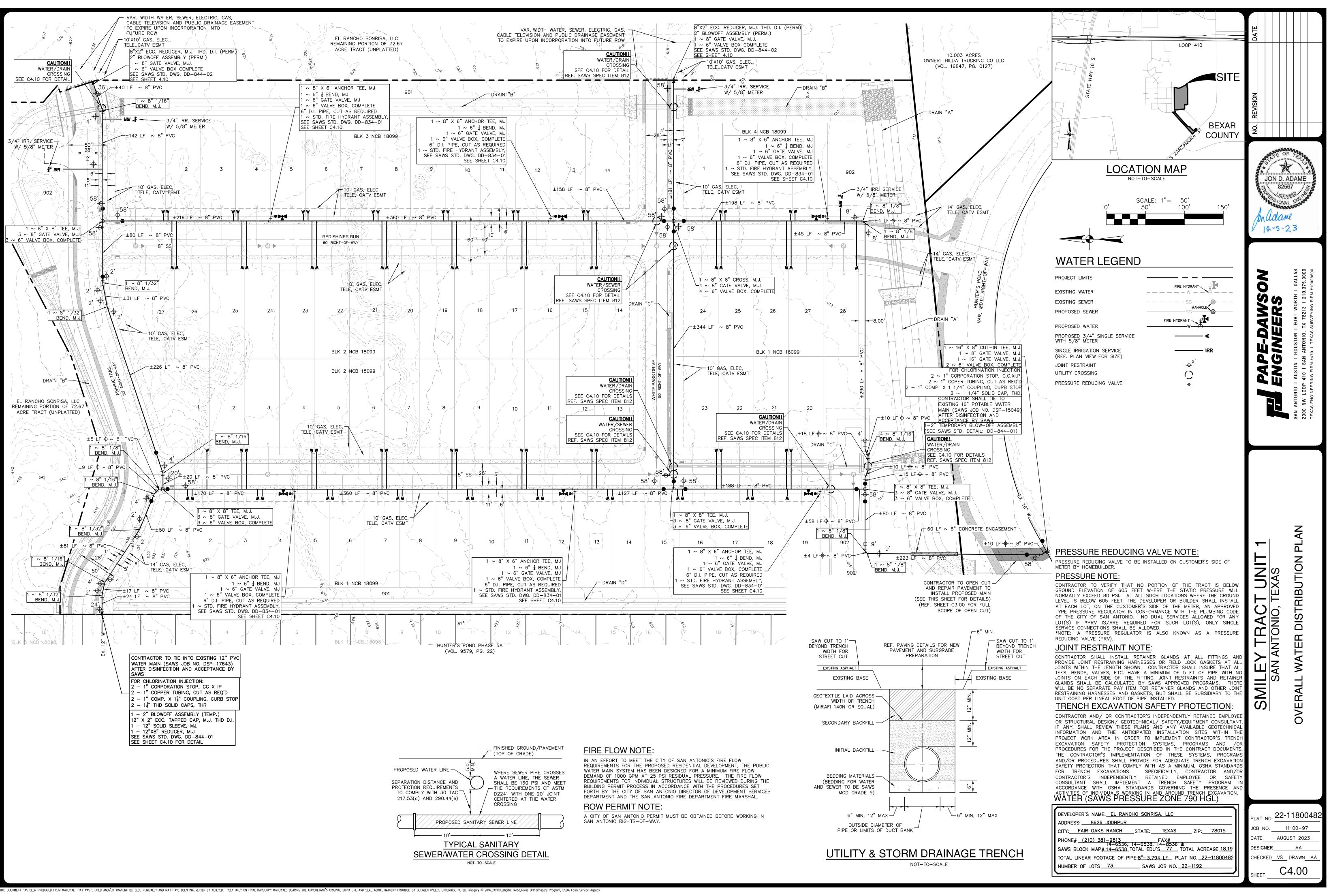
- 1. MINIMUM 8 FOOT WHITE MARKINGS SHALL BE USED, UNLESS OTHERWISE NOTED. IF MESSAGE CONSISTS OF MORE THAN ONE WORD, IT SHOULD BE PLACED WITH FIRST WORD NEAREST THE DRIVER.
- 2. THESE DETAILS ARE STANDARD SIZE FOR NORMAL INSTALLATION; SIZES MAY BE REDUCED APPROXIMATELY ONE-THIRD DEPENDING ON CONDITIONS.
- 3. THE LONGITUDINAL SPACE BETWEEN MARKINGS SHOULD BE 30 FEET.
- 4. MARKINGS CONSIDERED APPROPRIATE FOR USE WHEN WARRANTED INCLUDE THE FOLLOWING:

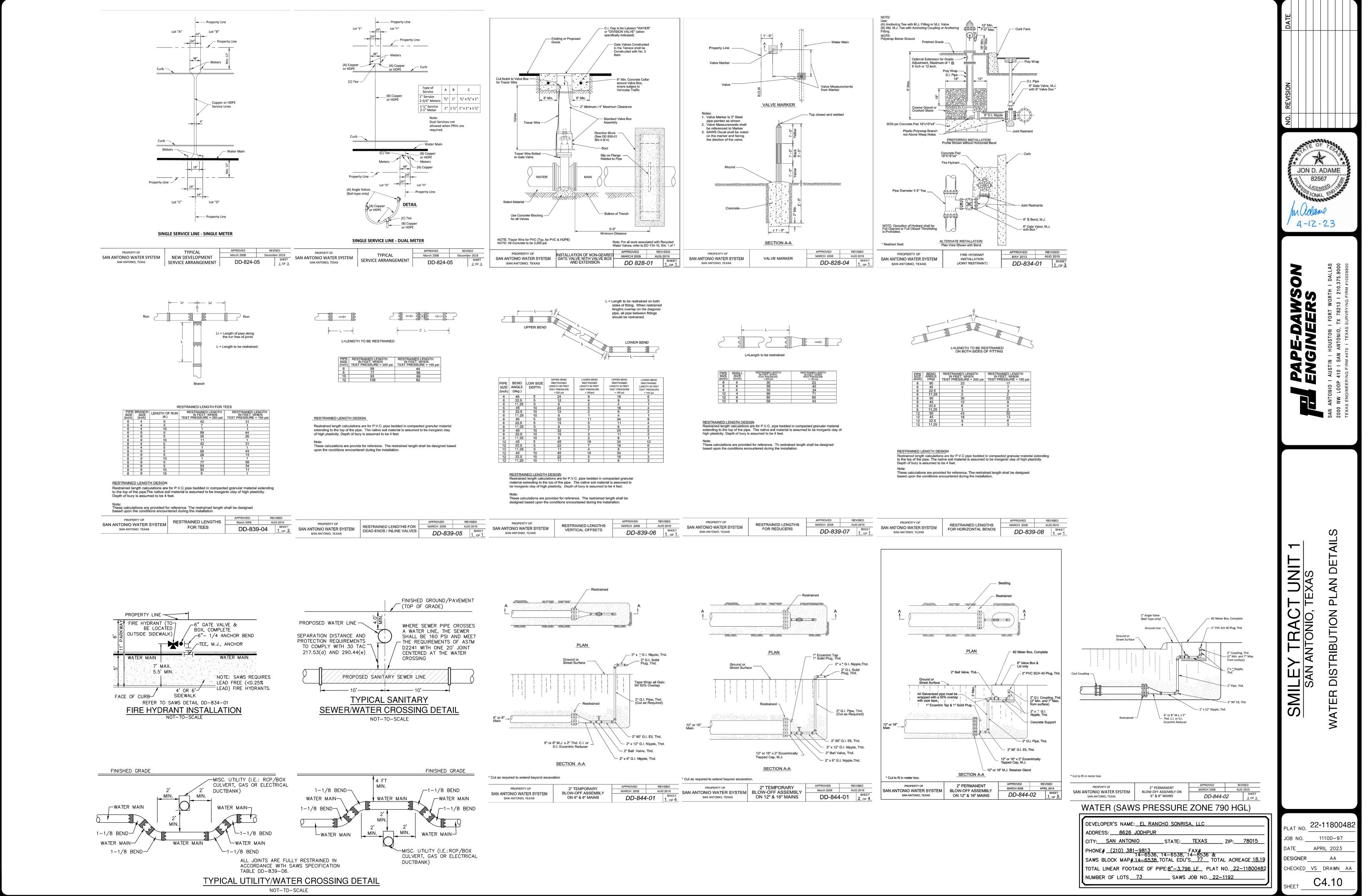
- 5. UNCONTROLLED USE OF PAVEMENT MARKINGS CAN RESULT IN DRIVER CONFUSION. WORD AND SYMBOL MARKINGS SHOULD BE NO MORE THAN THREE LINES.
- 6. THE WORD "STOP" SHALL NOT BE USED ON THE PAVEMENT UNLESS ACCOMPANIED BY A STOP LINE AND STOP SIGN. THE WORD "STOP" SHALL NOT BE PLACED ON THE PAVEMENT IN ADVANCE TO A STOP LINE, UNLESS EVERY VEHICLE IS REQUIRED TO STOP AT ALL TIMES.
- 7. PAVEMENT MARKINGS SHOULD GENERALLY BE NO MORE THAN ONE LANE IN WIDTH, WITH SCHOOL MESSAGES BEING THE EXCEPTION. FOR DETAILS OF SCHOOL AND SCHOOL CROSSING PAVEMENT MARKINGS, REFER TO PART VILOF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 8. SPACING BETWEEN LETTERS SHOULD BE APPROXIMATELY 4 INCHES. THE WIDTH OF LETTERS MAY VARY DEPENDING ON THE WIDTH OF THE TRAVEL LANES.
- 9. LANE-USE ARROW MARKINGS MAY BE USED TO CONVEY EITHER GUIDANCE OR MANDATORY MESSAGES. ARROWS USED TO CONVEY A MANDATORY MOVEMENT MUST BE ACCOMPANIED BY STANDARD SIGNS AND THE PAVEMENT MARKING WORD "ONLY".
- 10.PAVEMENT MARKINGS ARE TO BE LOCATED AS SPECIFIED ELSEWHERE IN THE PLANS.

SEPTEMBER 2009	
CITY OF SAN ANTO	NIO
TRAFFIC ENGINEERING STANDARDS STANDARD PAVEMENT MA (ARROWS) SHEET 3 OF 16	
% SUBMITTAL PROJECT NO.:	DATE:
DRWN, BY: LAN DSGN, BY: C.R.V. CHKD, BY: M.E.	SHEET NO .:OF

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FILE PAPE-DAWSON	SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS 2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 Texas engineering firm #470 I texas surveying firm #10028800
SMILEY TRACT UNIT 1 SAN ANTONIO, TEXAS	SIGNAGE DETAILS SHEET 3 OF 3
JOB NO DATEA DESIGNER	2-11800482 11100-97 APRIL 2023 AA S_DRAWN_AA

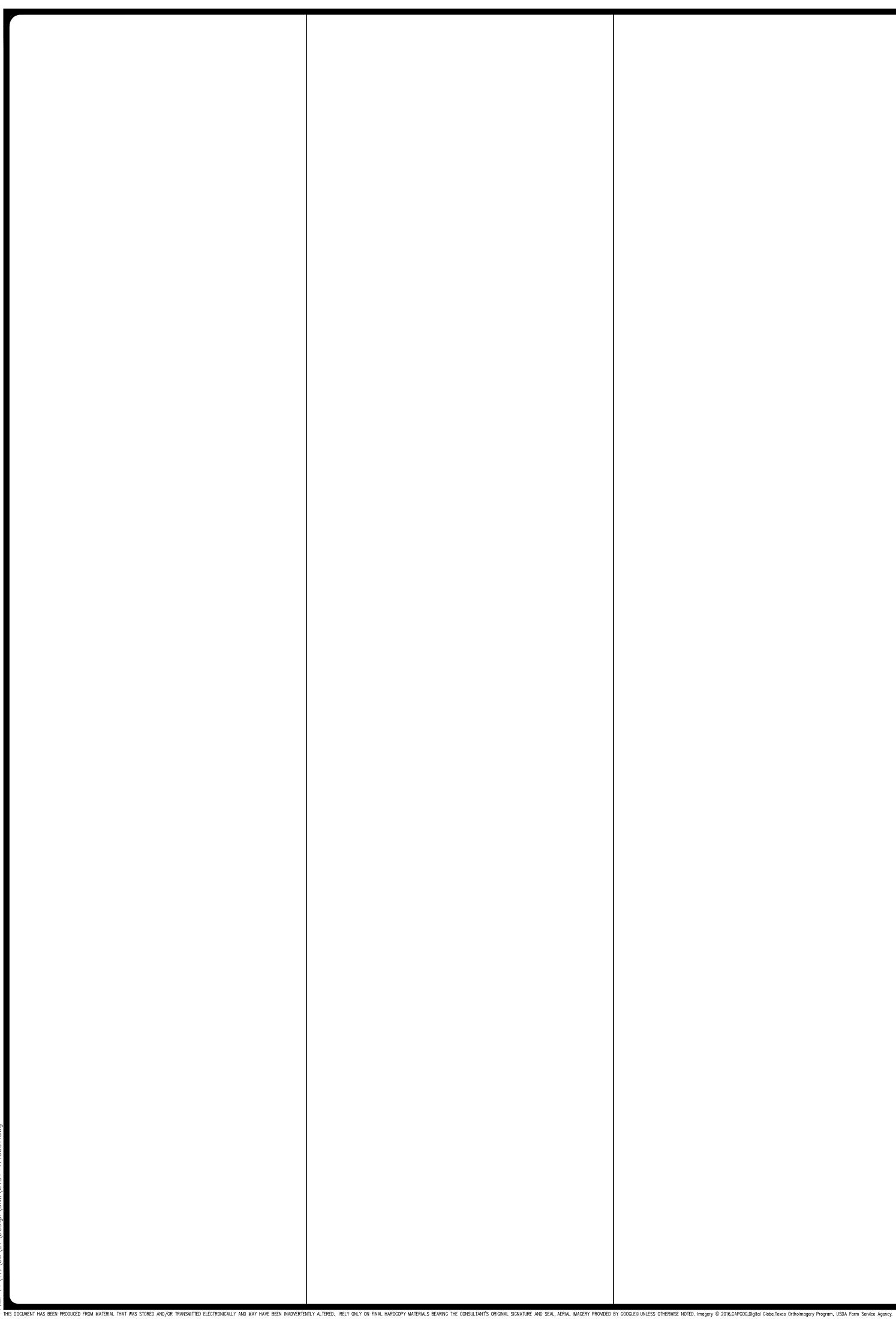
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	SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)		
S	AWS GENERAL SECTION	S	AWS WATER NOTES
1.	ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:	1.	PRIOR TO TIE-INS, ANY SHUTDOWNS BE COORDINATED WITH THE SAWS LEAST ONE WEEK IN ADVANCE OF T ALSO PROVIDE A SEQUENCE OF WOR
	 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.	AT NO ADDITIONAL COST TO SAW RESPONSIBILITY OF THE CONTR ACCORDINGLY. • FOR WATER MAINS 12" OR HIGHE CENTER (210) 233–2014 ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN TO CONTAIN ASBESTOS– O LOCATED WITHIN THE PROJECT L PROCEDURES AND HEALTH AND SAFE WHEN REMOVAL AND/OR DISTURBANO IS TO BE MADE UNDER SPECIAL SI
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.		SPECIFICATION FOR HANDLING ASBEST VALVE REMOVAL: WHERE THE CONTR THE CONTROL VALVE LOCATED ON REMOVED AND REPLACED WITH A CAR SUITABLE ANCHORAGE/THRUST BLOO PROVIDED AT ALL OF THE FOLLOWING
3.	THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS.		CAPS, TEES, CROSSES, VALVES, AN STANDARD DRAWINGS DD-839 SERII STANDARD SPECIFICATIONS FOR CONS
4.	THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT		ALL VALVES SHALL READ "OPEN RIGH
	(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.	б.	PRVS REQUIRED: CONTRACTOR TO VE IS BELOW GROUND ELEVATION OF 605 WILL NORMALLY EXCEED 80 PSI. AT GROUND LEVEL IS BELOW 605 FEET,
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.		INSTALL AT EACH LOT, ON THE CUST APPROVED TYPE PRESSURE REGULATO PLUMBING CODE OF THE CITY OF SAM ALLOWED FOR ANY LOT(S) IF *PRV IS ONLY SINGLE SERVICE CONNECTIONS PRESSURE REGULATOR IS ALSO KNOW (PRV).
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 PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES: • SAWS UTILITY LOCATES: HTTP: //WWW.SAWS.ORG/SERVICE/LOCATES • COSA DRAINAGE (210) 207–0724 OR (210) 207–6026 • COSA TRAFFIC SIGNAL OPERATIONS (210) 206–8480	7.	PIPE DISINFECTION WITH DRY HTH F FEET. (ITEM NO. 847.3): MAINS WHERE SHOWN IN THE CONTRACT INSPECTOR, AND SHALL NOT EXCEEL METHOD OF DISINFECTION WILL ALSO CONTRACTOR SHALL UTILIZE ALL PROTECT HIS PERSONNEL DURING DIS
	 COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811 	8.	BACKFLOW PREVENTION DEVICES:
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.		 ALL IRRIGATION SERVICES WITHIN HAVE BACKFLOW PREVENTION DE ALL COMMERCIAL BACKFLOW PRE BY SAWS PRIOR TO INSTALLATION
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.	FINAL CONNECTION TO THE EXISTIN UNTIL THE WATER MAIN HAS BEEN SAWS HAS RELEASED THE MAIN FOR
9.	THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.	10.	DIVISION VALVES: DIVISION VALVES PLANS BUT FOUND IN THE FIELD DISTRIBUTION AND COLLECTION STA
10.	THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.		APPROVAL OF THE SAWS DIRECTOR PROPER COORDINATION WITH ALL SA PROVIDE WRITTEN NOTIFICATION TO WEEKS IN ADVANCE TO START THE
	HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.		INFORMED BY THE INSPECTOR WHEN BY THE SAWS DISTRIBUTION AND CO CAN ONLY BE OPERATED BY SAWS MEMBER NOT THE INSPECTOR OR
	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.		DIVISION VALVE WITHOUT THE EXPRISAWS DISTRIBUTION AND COLLECTION BREACH OF ANY WRITTEN SAWS OF SUBJECTING THE CONTRACTOR TO LI
11.	ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.		OR OTHER DAMAGES, DIRECT OR CON BE CAUSED BY THE OPERATION OF PERMISSION. PLEASE BE INFORMED T OR OPENING OR CLOSING OF A DIVI
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		FOR APPROVAL. DIVISION VALVES DIVISION VALVE AND A LOCKING ME LOCK AND KEY MECHANISM WILL BE WILL BE INSTALLED BY SAWS DISTRIB

AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY

13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION

PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

INSPECTION DIVISION.

OF EXISTING MAINS OF ANY SIZE MUST | 1. MACHINE CHLORINATION BY THE S.A.W.S. CONSTRUCTION INSPECTION DIVISION AT HE SHUTDOWN. THE CONTRACTOR MUST RK AS RELATED TO THE TIE-INS; THIS IS WS OR THE PROJECT AND IT IS THE

IER: SAWS EMERGENCY OPERATIONS

-) KNOWN AS TRANSITE PIPE WHICH IS CONTAINING MATERIAL (ACM), MAY BE LIMITS. SPECIAL WASTÈ MANAGEMENT ETY REQUIREMENTS WILL BE APPLICABLE ICE OF THIS PIPE OCCURS. SUCH WORK PECIFICATION ITEM NO. 3000, "SPECIAL TOS CEMENT PIPE".
- RACTOR IS TO ABANDON A WATER MAIN, THE ABANDONING BRANCH WILL BE P/PLUG. (NSPI)
- CKING OR JOINT RESTRAINT SHALL BE G MAIN LOCATIONS: DEAD ENDS, PLUGS, AND BENDS, IN ACCORDANCE WITH THE IES AND ITEM NO. 839, IN THE SAWS STRUCTION.
- Η**Τ**".
- ERIFY THAT NO PORTION OF THE TRACT 5 FEET WHERE THE STATIC PRESSURE ALL SUCH LOCATIONS WHERE THE THE DEVELOPER OR BUILDER SHALL TOMER'S SIDE OF THE METER, AN OR IN CONFORMANCE WITH THE N ANTONIO. NO DUAL SERVICES S/ARE REQUIRED FOR SUCH LOT(S), ŚHALL BE ALLOWED. *NOTE: A ` WN AS A PRESSURE REDUCING VALVE
- FOR PROJECTS LESS THAN 800 LINEAR SHALL BE DISINFECTED WITH DRY HTH DOCUMENTS OR AS DIRECTED BY THE A TOTAL LENGTH OF 800 FEET. THIS BE FOLLOWED FOR MAIN REPAIRS. THE APPROPRIATE SAFETY MEASURE TO SINFECTION OPERATIONS.
- RESIDENTIAL AREAS ARE REQUIRED TO VICES. EVENTION DEVICES MUST BE APPROVED
- PRESSURE TESTED, CHLORINATED, AND TIE-IN AND USE.
- SHOWN ON PLANS OR NOT SHOWN ON SHALL ONLY BE OPERATED BY SAWS AFF AND ONLY WITH PRIOR WRITTEN OF PRODUCTION AND OPERATIONS AND AWS DEPARTMENTS. CONTRACTOR SHALL THE INSPECTOR A MINIMUM OF TWO COORDINATION PROCESS AND WILL BE THE DIVISION VALVE WILL BE OPERATED DLLECTION STAFF. THE DIVISION VALVE
- S DISTRIBUTION AND COLLECTION STAFF THE CONTRACTOR. OPERATION OF A ESS PRIOR WRITTEN APPROVAL OF THE STAFF WILL CONSTITUTE A MATERIAL CONTRACT OR PERMIT IN ADDITION TO ABILITY FOR ANY AND ALL FINES, FEES, NSEQUENTIAL, THAT MAY ARISE FROM OR THE VALVE WITHOUT PRIOR WRITTEN HAT THE APPROVAL OF THE OPERATION
- ISION VALVE CAN TAKE SEVERAL WEEKS WILL ALSO HAVE A VALVE LID LABELED CHANISM INSTALLED WITH A KEY. THE PAID FOR BY THE CONTRACTOR BUT UTION AND COLLECTION STAFF.

PROJECT WATER NOTES

- . ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
- RACTOR TO SEQUENCE THE WORK 3. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, A PROVIDED FOR IN THE SPECIAL CONDITIONS.
 - 4. THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE TH CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE ANI VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT T TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING T 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 TH CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - 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 AL 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, BY ANY OTHER MEANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE
 - STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND TH PARKWAY WILL BE CUT DOWN TO TOP OF CURB BY THE STREET CONTRACTOR PRIOR TO CONSTRUCTION OF THE WATER MAINS. IT WILL BE THE UTILIT 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 UNTI 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 INCLUD FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLET ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHAL 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, SUCI INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS NATURA 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 O VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.
- ING WATER MAIN SHALL NOT BE MADE 14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS.
 - 15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

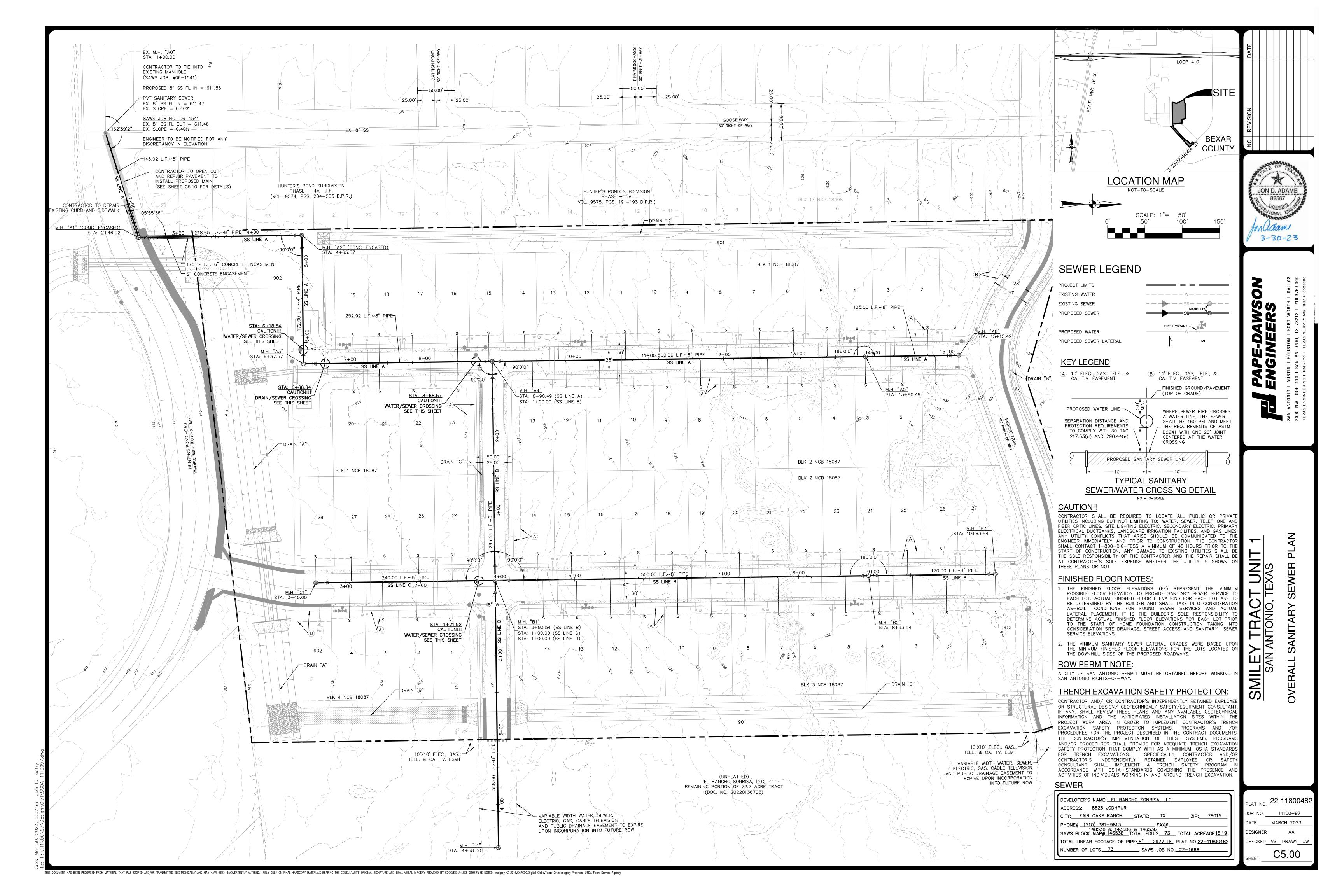
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TROM OVED JNTIL W.S. LUDE LETE, HALL NT). SUCH JRAL JBLIC THIS OF ER.	ENGINEERS	SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS 2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800
	SMILEY TRACT UNIT 1 SAN ANTONIO, TEXAS	WATER DISTRIBUTION PLAN NOTES
- - - 19 82	PLAT NO. 22 JOB NO DATEAP DESIGNER CHECKED VS	11100-97 RIL 2023 AA

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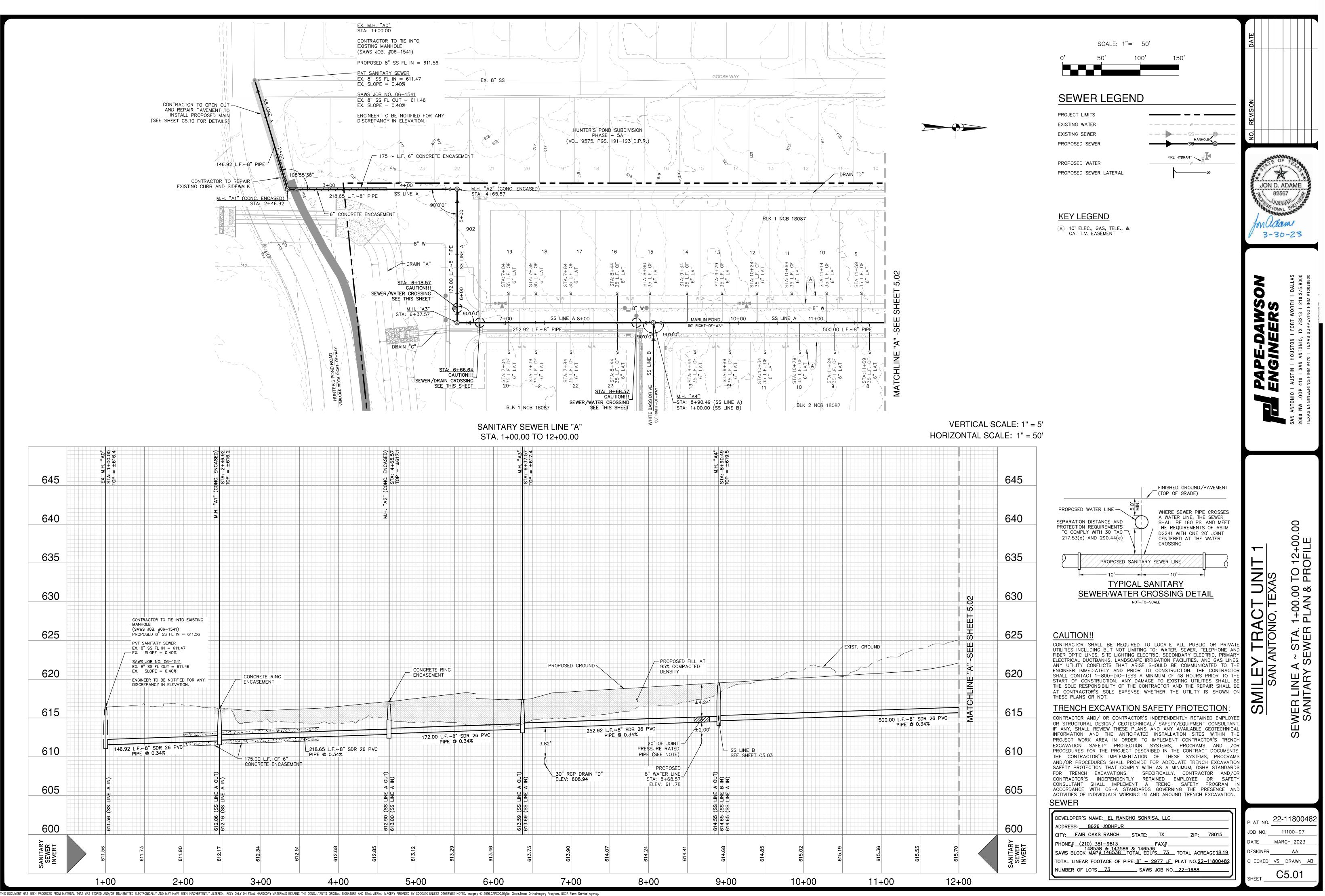
SHEET

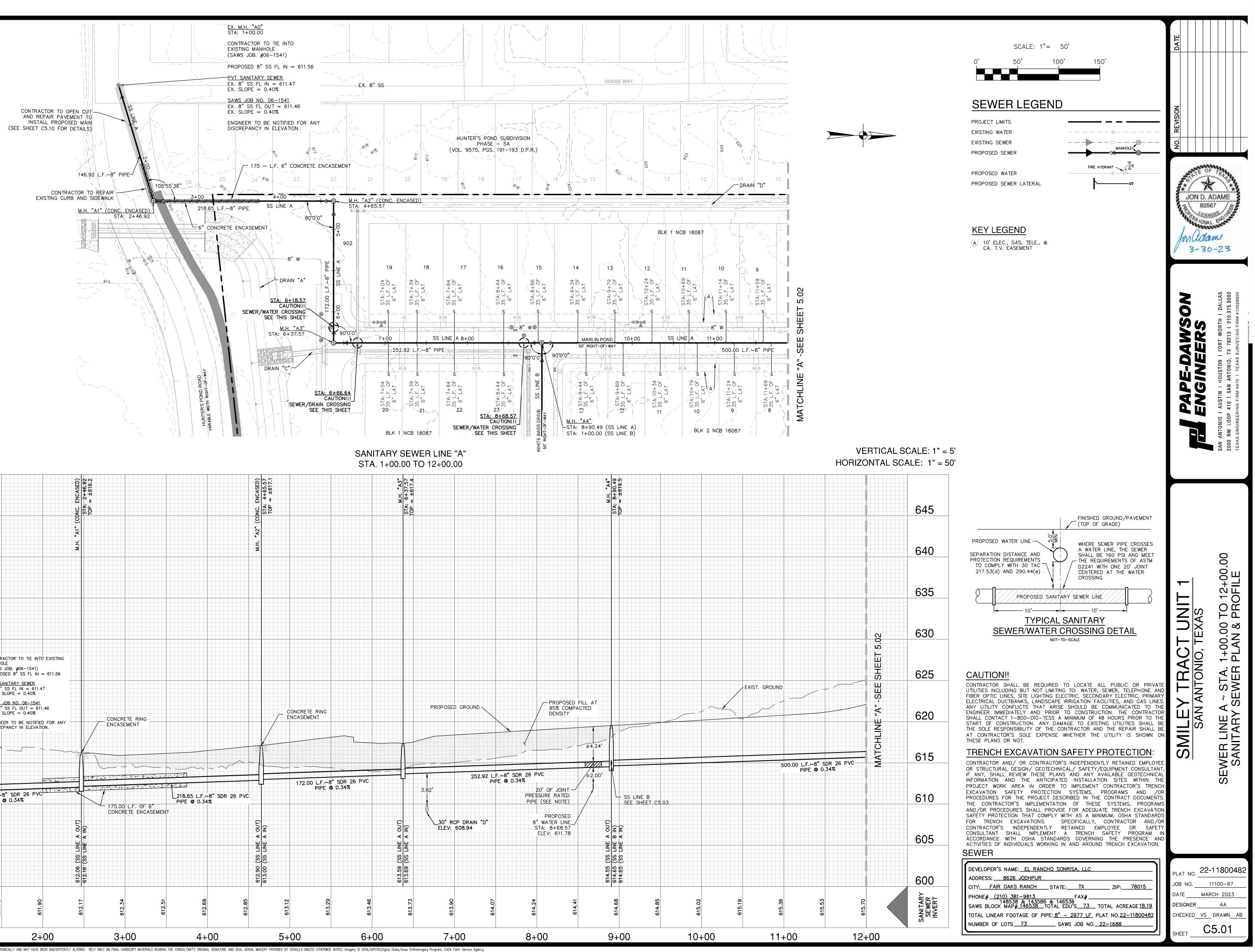
WATER (SAWS PRESSURE ZONE 790 HGL)

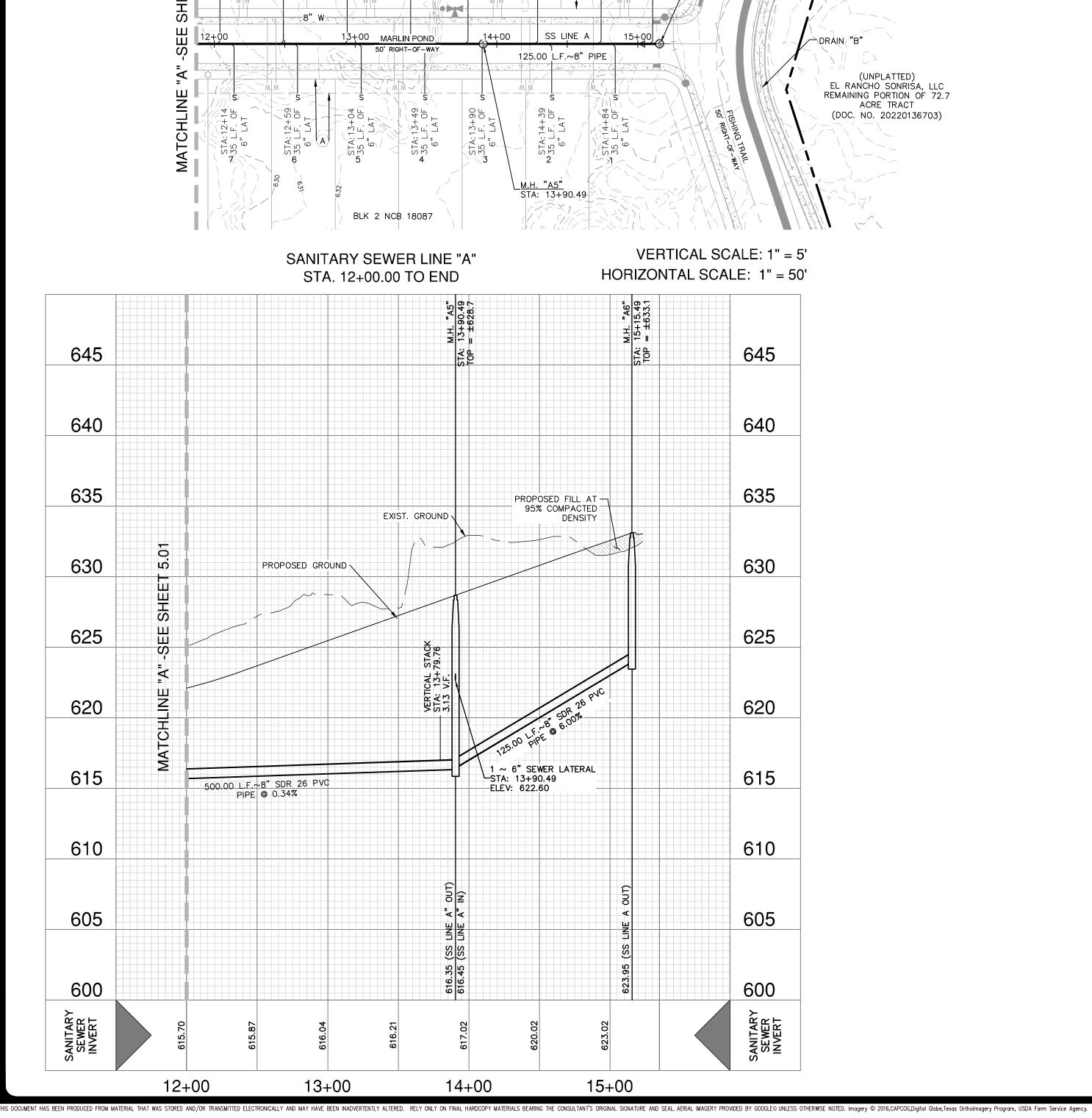
DEVELOPER'S NAME: EL RANCHO SONRISA, LLC
ADDRESS: 8626 JODHPUR
CITY: SAN ANTONIOSTATE:TEXASZIP:78015
PHONE# <u>(210) 381–9813</u> FAX# 14–6536, 14–6538, 14–8536 & SAWS BLOCK MAP <u>#14–6538</u> TOTAL EDU'S <u>77</u> TOTAL ACREAGE <u>18.1</u>
TOTAL LINEAR FOOTAGE OF PIPE: 8^{-3} ,796 LF PLAT NO. 22–1180048
NUMBER OF LOTS 73 SAWS JOB NO. 22-1192

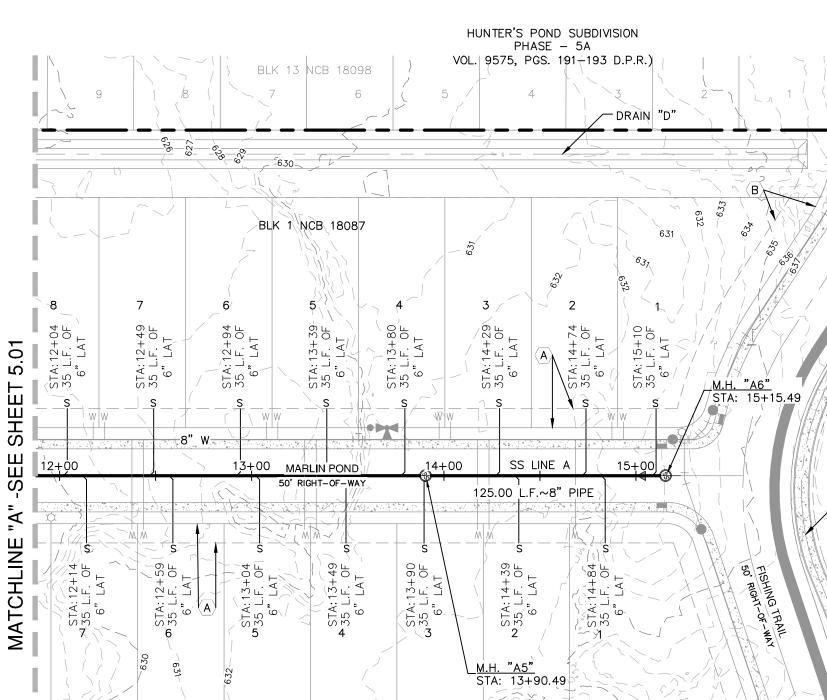


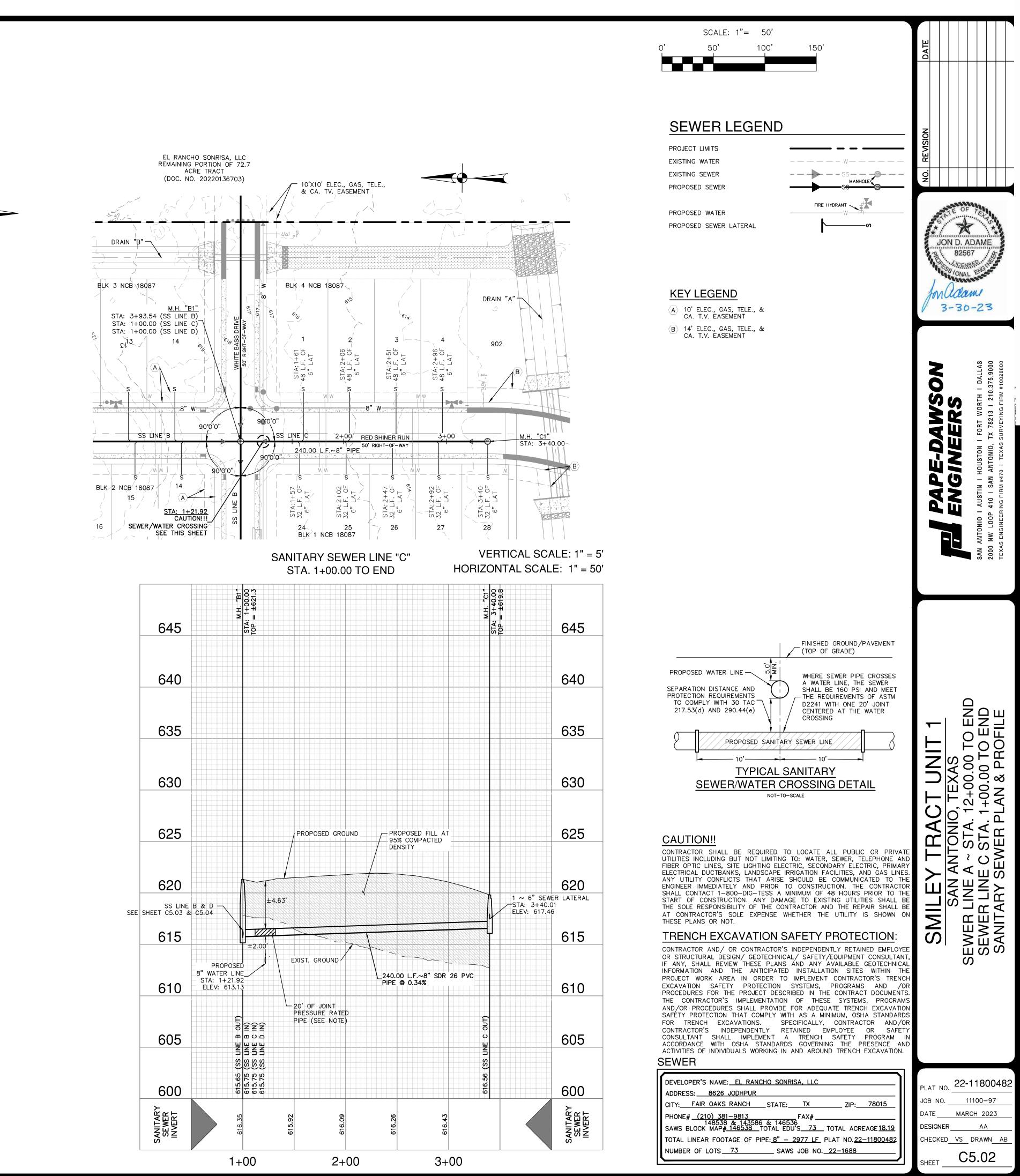


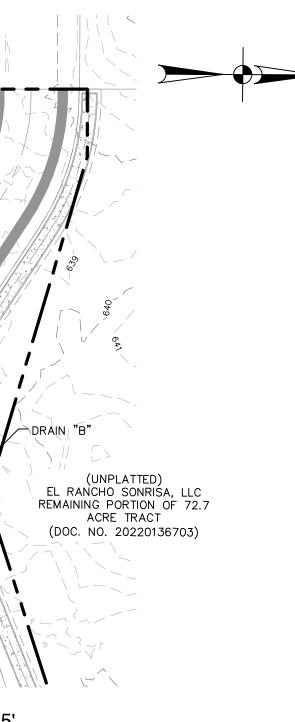


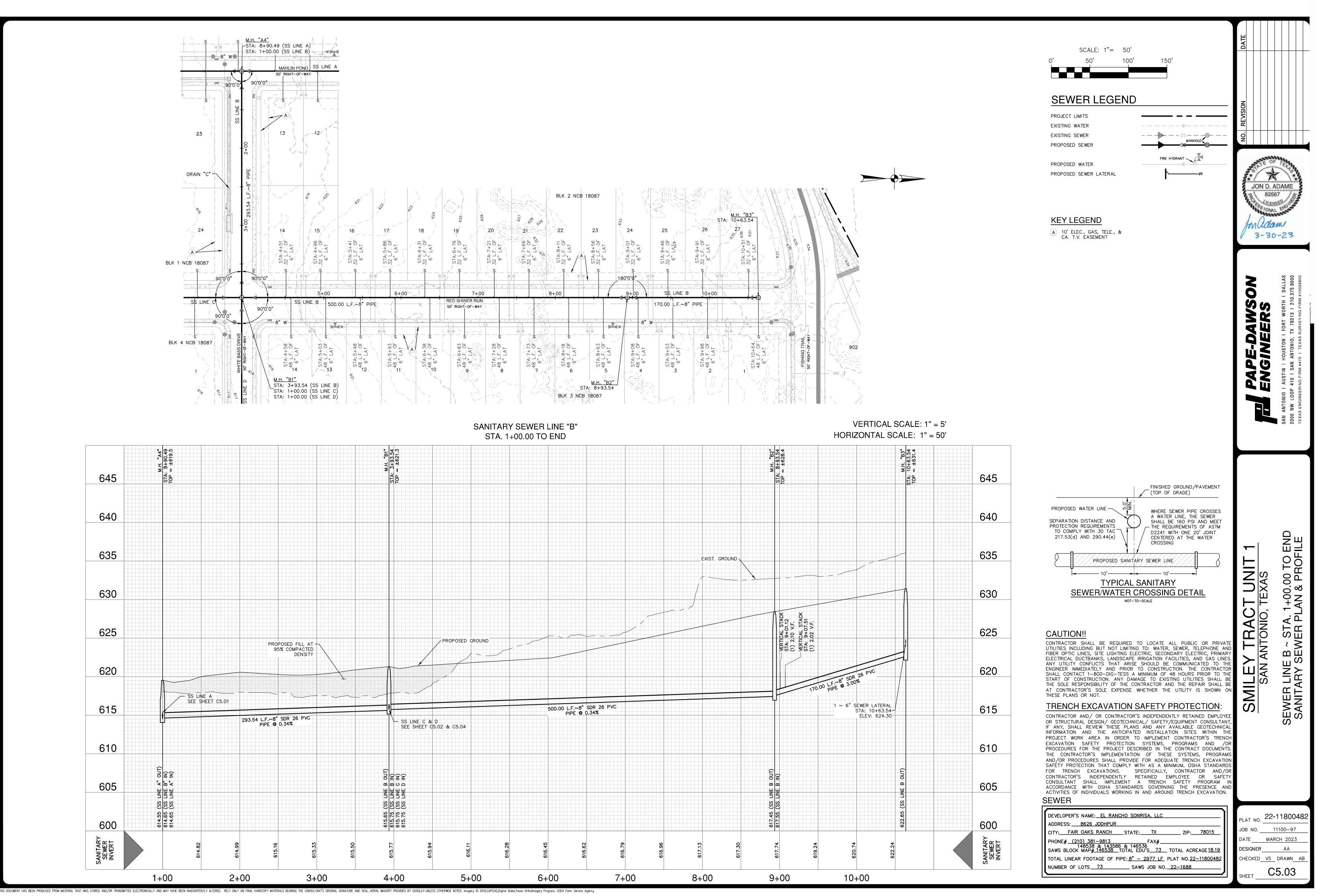


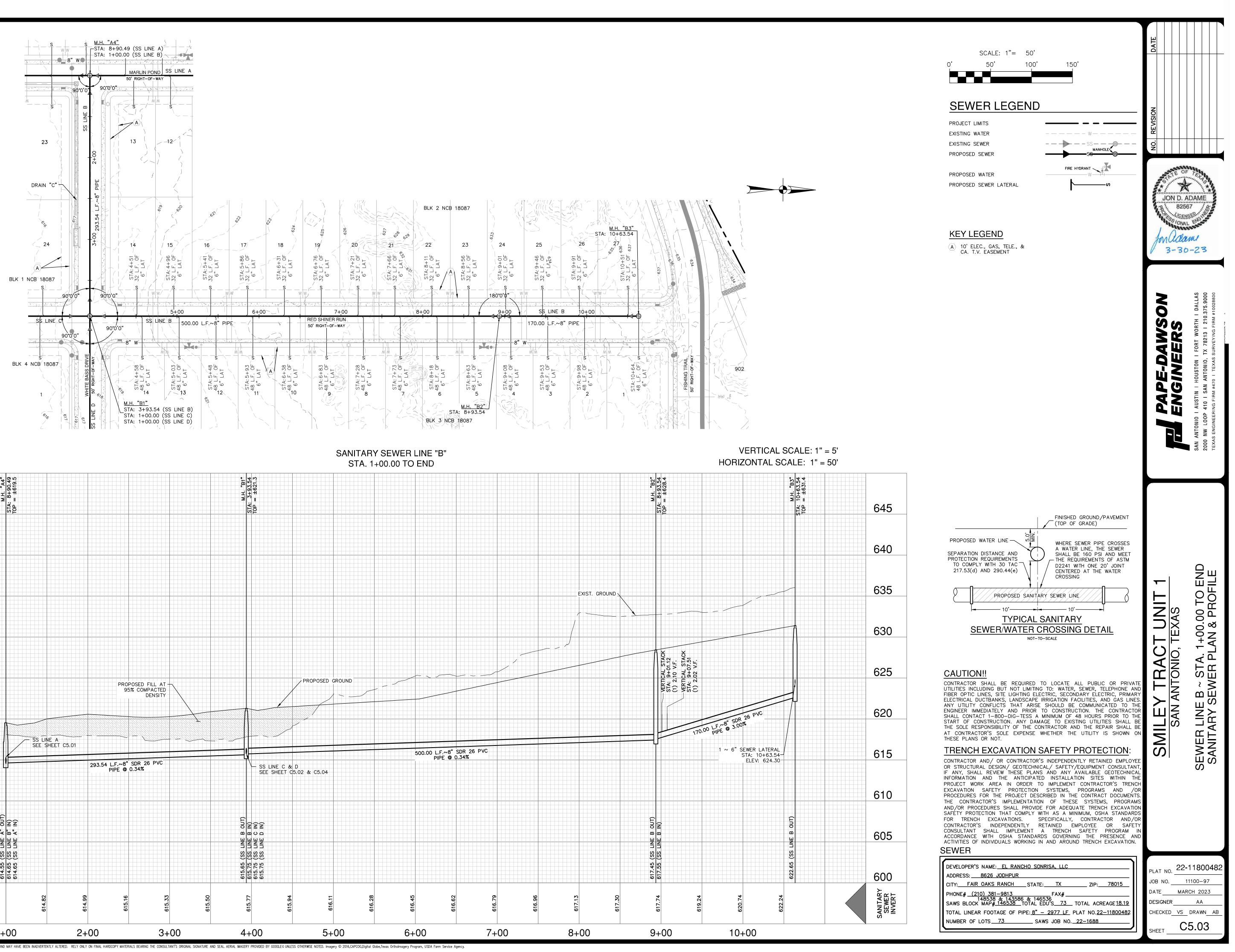




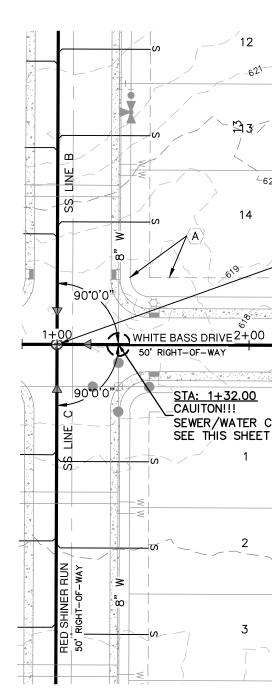


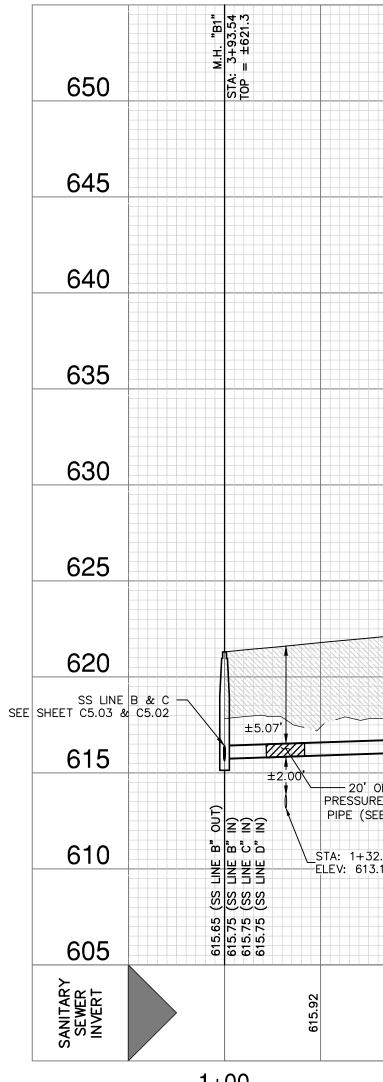


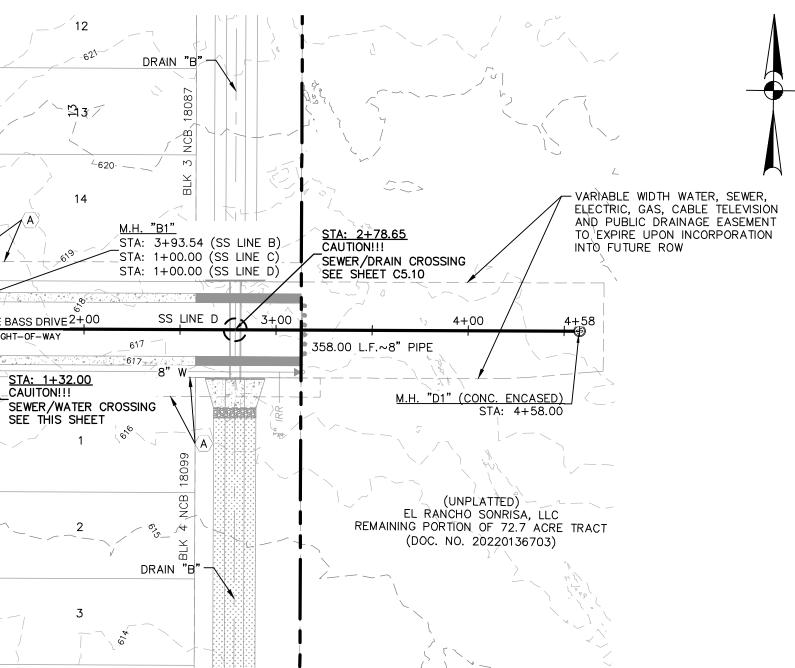








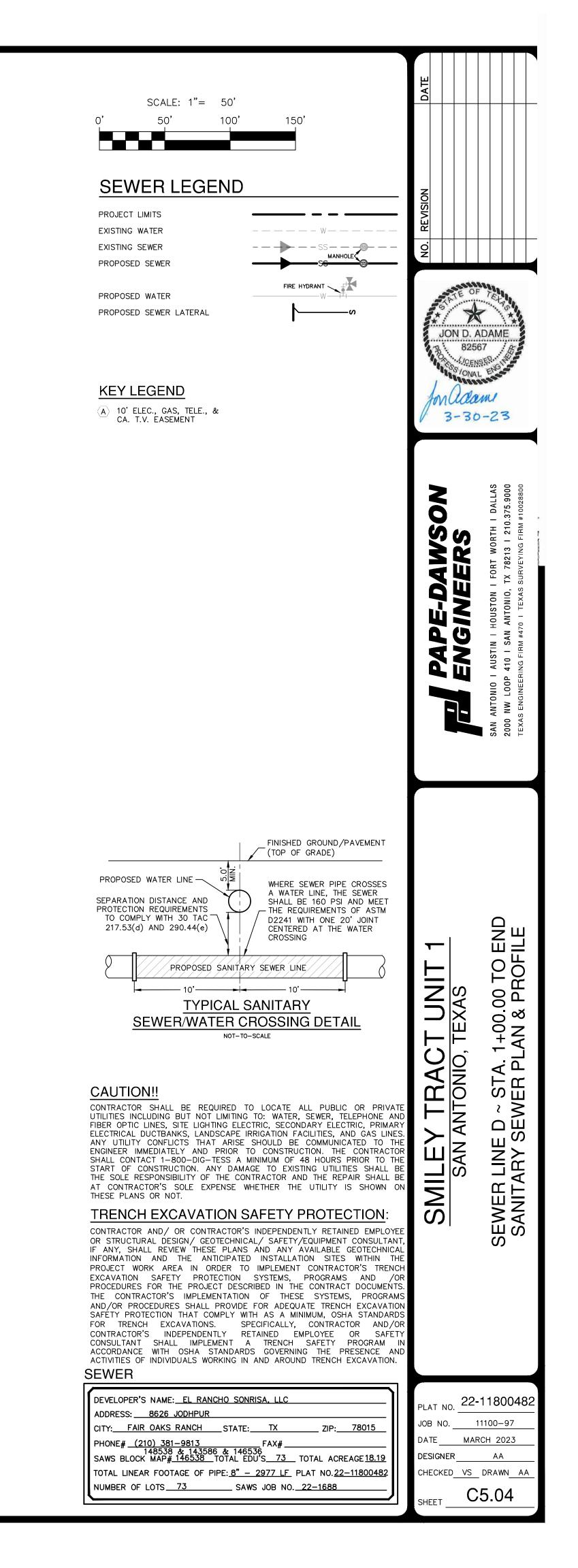


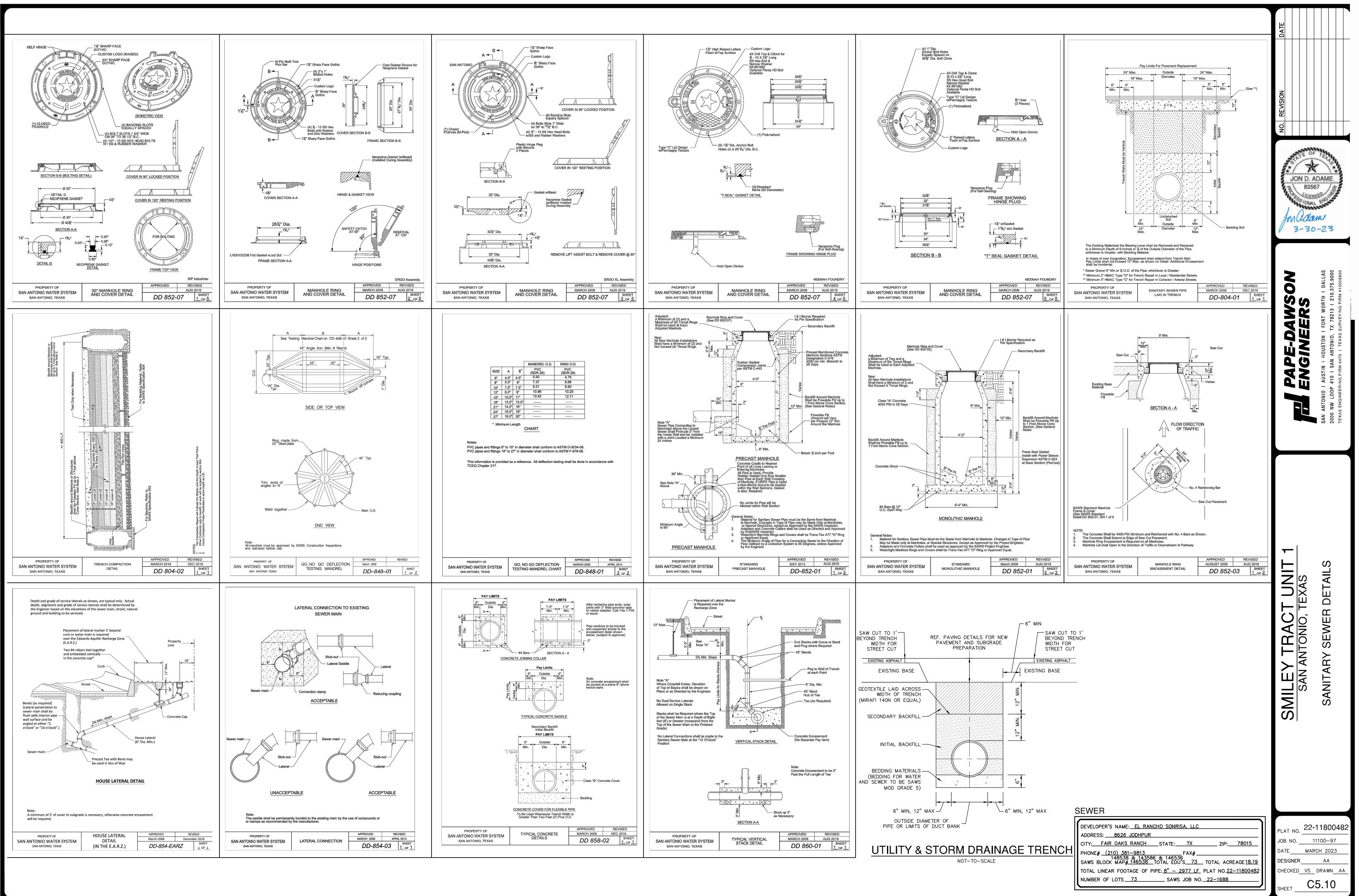


SANITARY SEWER LINE "D" STA. 1+00.00 TO END

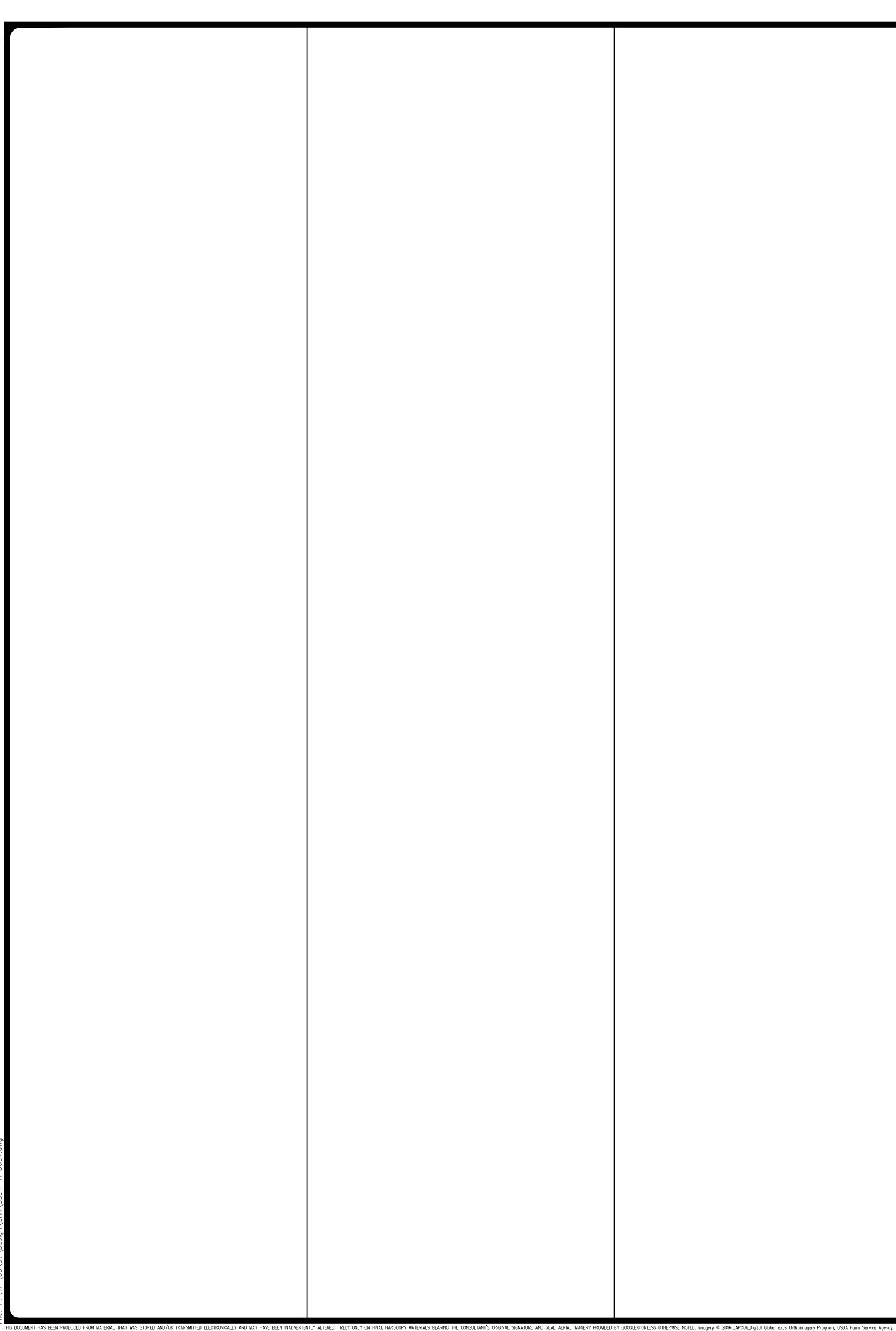
VERTICAL SCALE: 1" = 5' HORIZONTAL SCALE: 1'' = 50'

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	M.H. "B1" STA: 3+93.54 TOP = ±621.3			NC. ENCASED) STA: 4+58.00	70 H	
650	TOP 2			(CONC.		65
645				M. " ". " "		64
640						64
635						63
630						63
625		PROPOSED GR	DUND PROPOSED FILL AT 95% COMPACTED DENSITY		CONCRETE RING ENCASEMENT	62
620			5'~2' SBC STA: 2+78.65 ELEV: 619.62			62
SS LINE B & C SEE SHEET C5.03 & C5.02	±5.07	±2:	98' ELEV: 619.62			
615			358.00 L.F.~8" SDR 26 PIPE @ 0.34%	EXIST. GROUND		61
		OF JOINT RE RATED SEE NOTE)				0.4
610		32.00				61
605	615.65 (SS LINE B" - ELEV: 91 615.75 (SS LINE B" - ELEV: 91 615.75 (SS LINE B" - ELEV: 91 615.75 (SS 10			616.96		60
SANITARY SEWER INVERT	615.92	616.09 616.26	616.43 616.60	616.77 616.94		SANITARY SEWER
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ITH ANY PIPE INSTALLATION WORK UNTIL OVED COUNTER PERMIT OR GENERAL NSULTANT AND HAS BEEN NOTIFIED BY TO PROCEED WITH THE WORK AND HAS OR AND CONSULTANT FOR THE WORK CONTRACTOR WITHOUT AN APPROVED BE SUBJECT TO REMOVAL AND NTRACTORS AND/OR THE DEVELOPER.

S STANDARD DETAILS FROM THE SAWS _CENTER/SPECS. UNLESS OTHERWISE

URES THAT WILL BE USED TO NOTIFY OPERTY OWNERS 48 HOURS PRIOR TO

ES AND SERVICE LATERALS SHOWN ON APPROXIMATE. ACTUAL LOCATIONS AND CONTRACTOR AT LEAST 1 WEEK PRIOR TO TRACTOR'S RESPONSIBILITY TO LOCATE CONSTRUCTION AND TO PROTECT THEM

LOCATION OF UNDERGROUND UTILITIES -2 WEEKS PRIOR TO CONSTRUCTION E ALLOW UP TO 7 BUSINESS DAYS FOR MARKERS ON SAWS FACILITIES. THE PLIED FOR VERIFICATION PURPOSES:

SAWS.ORG/SERVICE/LOCATES

210) 207-6026 10) 206-8480 207-3951

1-800-545-6005 OR 811

_E FOR RESTORING EXISTING FENCES, ANDSCAPING AND STRUCTURES TO ITS GES ARE MADE AS A RESULT OF THE

ANSPORTATION (TXDOT) AND/OR BEXAR IN ACCORDANCE WITH RESPECTIVE REQUIREMENTS.

CITY OF SAN ANTONIO OR OTHER S WHEN EXCAVATING NEAR TREES. WASTE MATERIALS IN THE 100-YEAR APPROVED FLOOD PLAIN PERMIT.

OULD BE SENT TO

UIRED TO NOTIFY THE SAWS INSPECTION ADVANCE TO REQUEST WEEKEND WORK. EQ@SAWS.ORG.

D WITHOUT HOLIDAY/WEEKEND ERED FOR PROPER INSPECTION.

TRACTOR SHALL BE RESPONSIBLE FOR ON ALL TRENCH BACKFILL AND FOR THIRD PARTY. COMPACTION TESTS WILL LY SELECTED, OR AS INDICATED BY THE INISTRATOR, PER EACH 12-INCH LOOSE THIS PROJECT WILL NOT BE ACCEPTED QUIREMENT BEING MET AND VERIFIED BY 5. EST RESULTS.

BE FORWARDED TO SAWS CONSTRUCTION

SAWS SEWER NOTES

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL:

A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT (210) 233-2014. PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW. B.ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.

- C.CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS. D.CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE
- COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.
- E.CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS. F.MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA, TCEQ AND/OR ANY OTHER FEDERAL, STATE OR LOCAL AGENCIES.

NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.

- EMENTS WITH THE SAWS CONSTRUCTION 2. IF BYPASS PUMPING IS REQUIRED, THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".
 - PRIOR TO TIE-INS. ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 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.
 - SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44(E)(4)(B). CONTRACTOR SHALL CENTER A 20' JOINT OF 160 PSI PRESSURE RATED PVC AT THE PROPOSED WATER CROSSING.
 - ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI)
 - 6. SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE SAWS INSPECTOR ASSIGNED TO THE COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP). THIS REQUIREMENT APPLIES TO EVERY SPILL, OVERFLOW, OR DISCHARGE RÉGARDLESS OF SIZE.
 - MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
 - 8. ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

ALLOWED TO PERFORM SAWS WORK ON PROJECT SEWER NOTES

- ALL RESIDENTIAL SEWER SERVICE LATERALS ARE 6" DIA. AND SHALL BE EXTENDED TO 10' PAST THE PROPERTY LINE AND CAPPED AND SEALED. CONTRACTOR SHALL INSTALL A 2" X 4" STAKE, FOUR (4) FEET LONG, TWO (2) FEET DEEP INTO THE GROUND AT THE END OF EACH SERVICE. NO SEPARATE PAY ITEM.
- CONTRACTOR TO INSTALL CLEANOUTS AT THE END OF ALL SEWER LATERALS, PER LATERAL DETAIL SHEET C5.10
- 3. NO VERTICAL STACKS ALLOWED FOR ANY LOTS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
- ALL 6" SEWER LATERALS WILL BE SET AT 2% GRADE FROM THE MAIN TO THE PROPERTY LINE.
- WHEN HORIZONTAL DISTANCE BETWEEN SEWER PIPES AND WATER MAIN IS LESS THAN 9 FOOT OF SEPARATION, SEWER MAIN SHALL BE INSTALLED WITH 150 PSI (MIN) PRESSURE PIPE AND FITTINGS IN ACCORDANCE WITH SAWS CONSTRUCTION CRITERIA FOR CONSTRUCTION OF SEWER MAINS IN THE VICINITY OF WATER MAINS.
- . CONTRACTOR SHALL ENSURE THAT MANHOLES OUTSIDE OF PAVED AREAS ARE SET WITH TOP ELEVATIONS 6" ABOVE FINISHED GRADE WITH CONCRETE RING ENCASEMENT.
- 7. ALL SEWER PIPES SHALL BE 8" PVC (SDR 26), UNLESS OTHERWISE NOTED. 8. CONTRACTOR IS TO VERIFY EXISTING INVERT OF EXISTING SANITARY SEWER MAINS AND ALERT ENGINEER IMMEDIATELY OF ANY DIFFERENCE FROM
- INVERT SHOWN ON PLANS. 9. CONTRACTOR SHALL PROTECT ALL EXISTING FENCES. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR
- EXPENSE. 10. 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.
- I. CONCRETE RING ENCASEMENT TO BE INSTALLED ON ALL MANHOLES AND, WITHIN LIMITS OF PAVEMENT, BE INSTALLED TO THE TOP OF THE BASE LAYER WITH A MINIMUM OF 2" OF ASPHALT ON TOP OF THE RING ENCASEMENT.
- 12. MANHOLE OPENING INCREASED TO 30" AS PER TAC CHAPTER 217.55.
- 13. ALL SEWER PIPE LATERALS SHALL BE SDR 26 (CLASS 160) PVC PIPE.
- 14. IF THE GIVEN TOP OF MANHOLE ELEVATION DOES NOT AGREE ON ACTUAL GROUND SURFACE OR FINISH PAVEMENT, THE CONTRACTOR SHALL ADJUST ELEVATIONS SUCH THAT THE TOP OF MANHOLE SHALL BE 0.5' ABOVE EXISTING GROUND, OR FLUSH TO FINISH ASPHALT PAVEMENT.
- 15. ALL MANHOLES CONSTRUCTED OVER THE EDWARDS AQUIFER RECHARGE ZONE SHOULD BE WATERTIGHT.

SEWER	

l	DEVELOPER'S NAME: EL RANCHO SONRISA, LLC
l	ADDRESS: 8626 JODHPUR
l	CITY: FAIR OAKS RANCH STATE: TX ZIP: 78015
	PHONE# <u>(210) 381–9813</u> FAX# 148538 & 143586 & 146536 SAWS BLOCK MAP <u># 146538</u> TOTAL EDU'S <u>73</u> TOTAL ACREAGE <u>18.19</u>
	TOTAL LINEAR FOOTAGE OF PIPE: $8" - 2977$ LF PLAT NO. 22-11800482
	NUMBER OF LOTS 73 SAWS JOB NO. 22-1688

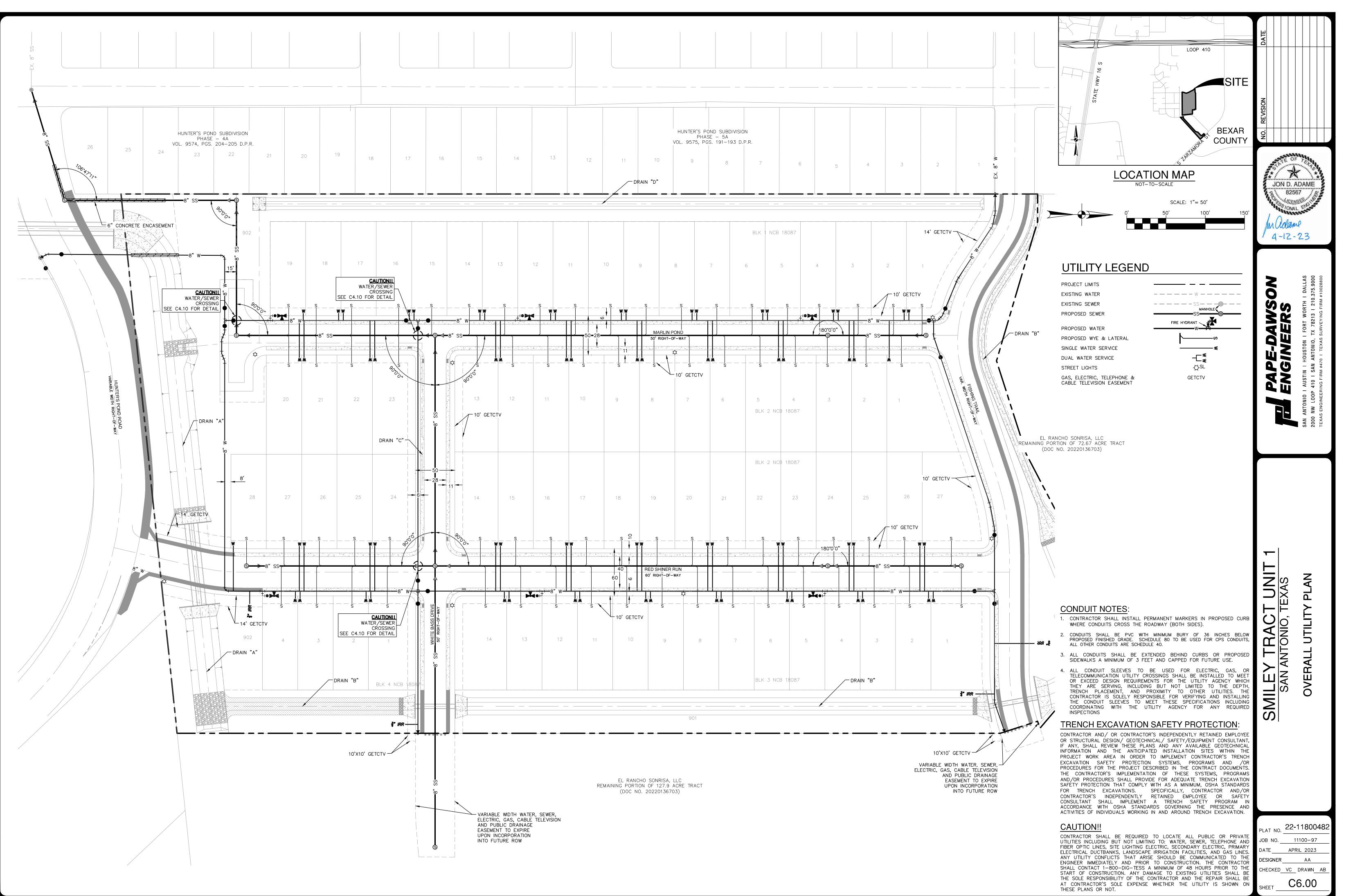
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ESIGNER

SHEET

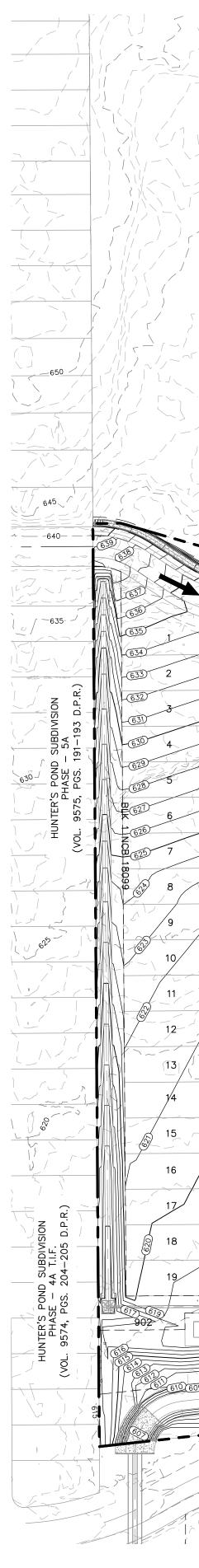
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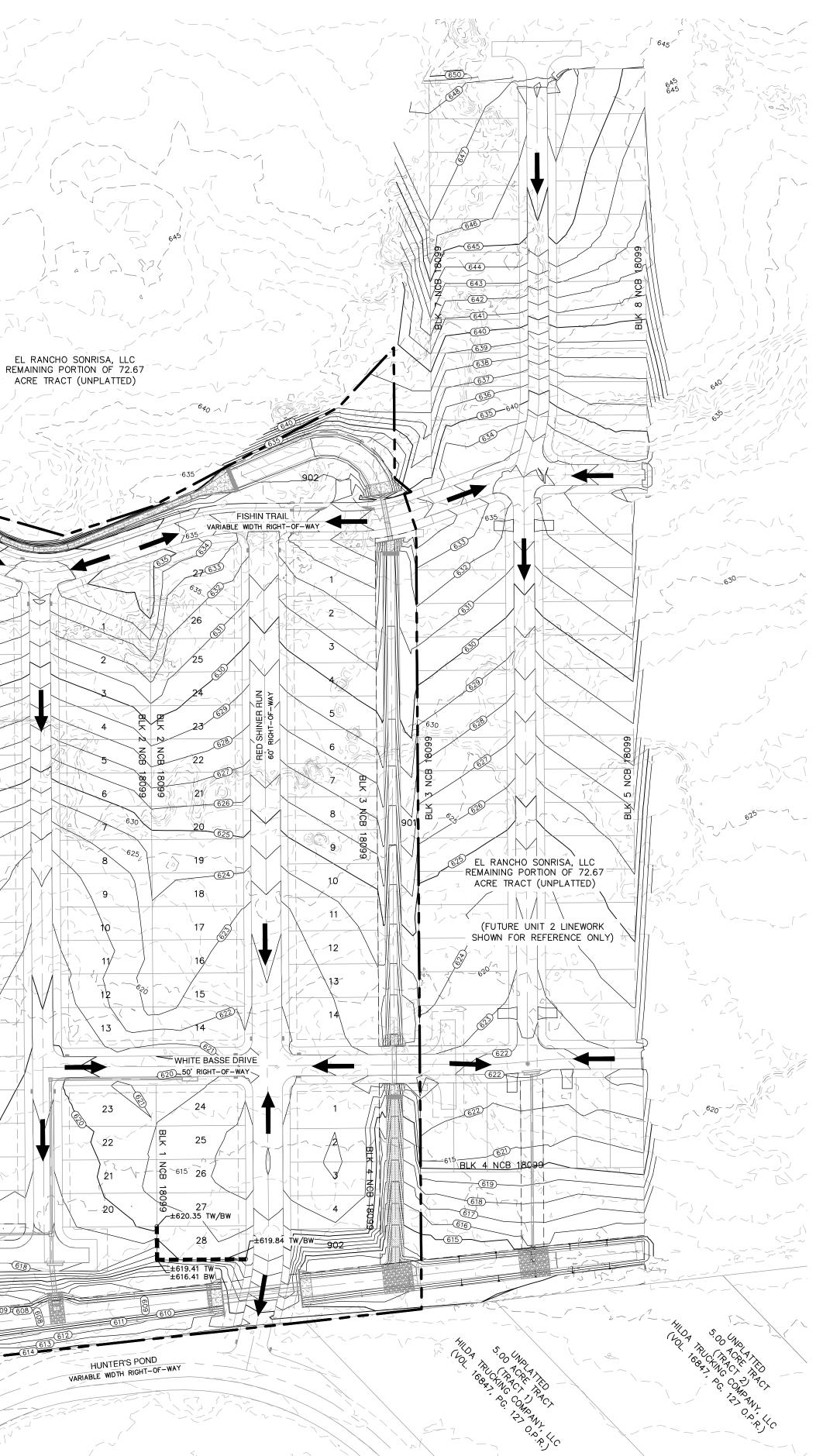
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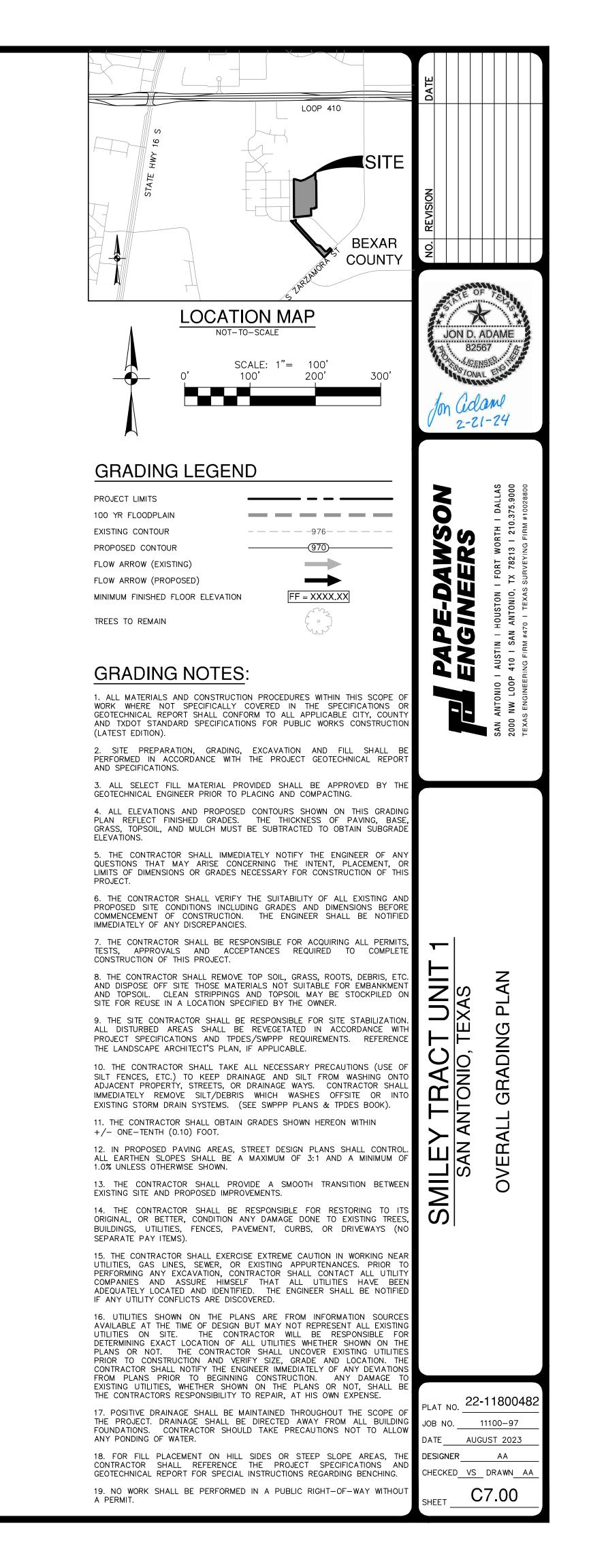
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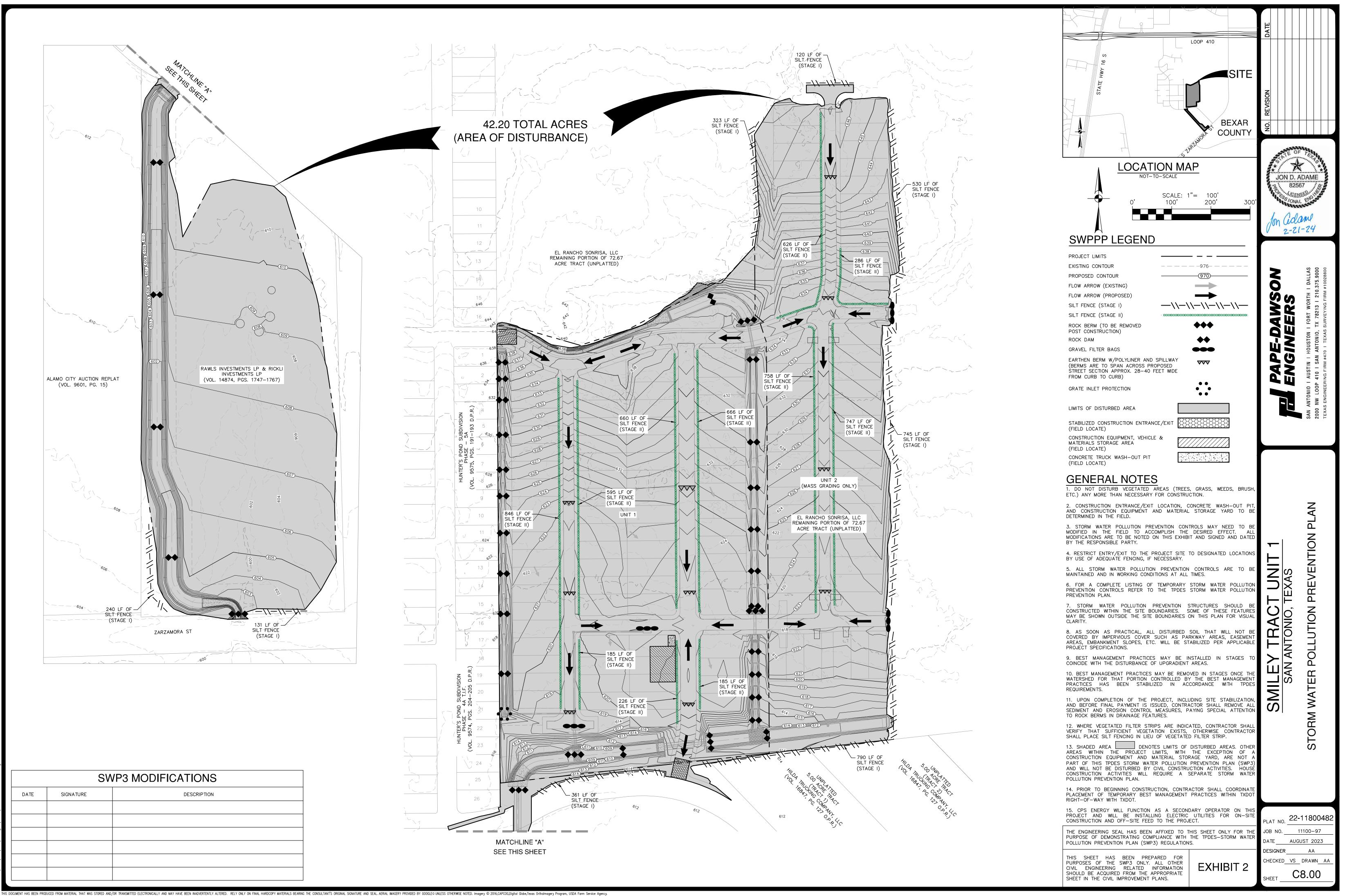
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	SWP3 N	MODIFICATIONS	
DATE	SIGNATURE	DESCRIPTION	

DIVERSION RIDGE >2% GRADE ROAD DIVERSION RIDGE -GEOTEXTILE FABRIC GEOTEXTILE FABRIC TO STABILIZE FOUNDATION STABILIZE FOUNDATION 4" TO 8" COARSE AGGREGATE SCHEMATIC OF TEMPORARY SECTION "A-A" OF A CONSTRUCTION ENTRANCE/EXIT CONSTRUCTION ENTRANCE/EXIT MATERIALS COMMON TROUBLE POINTS 1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD. THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN. STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY 2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF CONDITION AS STONE IS PRESSED INTO SOIL. 8-INCHES. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC-EXTEND PAD BEYOND 3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS THE MINIMUM 50-FOOT LENGTH AS NECESSARY. A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD2, A 4. PAD NOT FLARED SUFFICIENTLY AT ROAD SURFACE, RESULTS IN MUD BEING MULLEN BURST RATING OF 140 LB/IN², AND AN EQUIVALENT OPENING SIZE TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD. GREATER THAN A NUMBER 50 SIEVE 5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER PAD AND/OR 4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF IMPROVE FOUNDATION DRAINAGE. 4-INCH DIAMETER WASHED STONE OR COMMERCIAL ROCK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OF INSPECTION AND MAINTENANCE GUIDELINES BASIN. . THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION. WHICH WILL INSTALLATION PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. 1. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE. USED TO TRAP SEDIMENT 2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC . THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR. FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER. 3. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT 3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG. PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. 4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE 4. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED 6-INCHES TO 8-INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. RUNOFF AWAY FROM THE PUBLIC ROAD. 5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, 5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, DITCH OR WATER COURSE BY USING APPROVED METHODS. 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 SHOOTS OR GRASS BLADES. GRASS SHOULD BE GREEN AND HEALTHY: MOWED AT A 2"-3" CUTTING HEIGHT - THATCH- GRASS CLIPPINGS AND CORRECT DEAD LEAVES, UP TO 1/2" THICK. LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. <u>ROOT ZONE</u>- SOIL AND ROOTS SHOULD BE 1/2"-3/4" THICK, WITH DO NOT LEAVE SPACES AND DO NOT DENSE ROOT MAT FOR STRENGTH. OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE APPEARANCE OF GOOD SOD ENDS AND TRIMMING PIECES. INCORRECT - ANGLED ENDS CAUSED BY THE 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE AUTOMATIC SOD CUTTER MUST BE MATCHED SOIL. SOD INSTALLATION CORRECTLY. 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID. 3. MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH $(2^{\circ}-3^{\circ})$. LAY SOD ACROSS THE DIRECTION OF FLOW PEG OR STAPLE USE PEGS OR STAPLES TO FASTEN SOD FIRMLY - AT THE ENDS OF STRIPS AND IN THE CENTER, OR EVERY 3-4 FEET IF THE STRIPS ARE LONG. WHEN READY TO MOW, DRIVE PEGS OR STAPLES FLUSH IN CRITICAL AREAS, SECURE SOD WITH THE GROUND. WITH NETTING. USE STAPLES. MATERIALS GENERAL INSTALLATION (VA. DEPT. OF 1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH CONSERVATION, 1992 (± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE SOD SHOULD NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER. SHOOT GROWTH AND THATCH. SOD ALSO SHOULD NOT BE LAID ON SOIL SURFACES THAT ARE FROZEN. . PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND 2. DURING PERIODS OF HIGH TEMPERATURE, THE SOIL SHOULD BE LIGHTLY LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD, TO COOL THE SOIL AND TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE. REDUCE ROOT BURNING AND DIEBACK. STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO THE FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION. OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD 4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT OF 36 HOURS. IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS (SEE FIGURE ABOVE). 4. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM, SITE PREPARATION SOD SHOULD BE LAID WITH STAGGERED JOINTS AND SECURED BY STAPLING OR OTHER APPROVED METHODS. SOD SHOULD BE INSTALLED WITH THE LENGTH PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT PERPENDICULAR TO THE SLOPE (ON CONTOUR). TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN. THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL 5. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL. INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS. . AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS THOROUGHLY WET CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZE UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE 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 ABSENCE OF ADEQUATE RAINFALL, WATERING SHOULD BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4 FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR. 8. THE FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL THE SOD IS FIRMLY ROOTED, USUALLY 2-3 WEEKS. NOT MORE THAN ONE THIRD OF THE GRASS INSTALLATION IN CHANNELS

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).

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.

INSPECTION AND MAINTENANCE GUIDELINES SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO LOCATE AND REPAIR ANY DAMAGE.

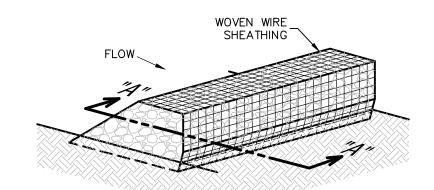
LEAF SHOULD BE REMOVED AT ANY ONE CUTTING.

SOD INSTALLATION DETAIL

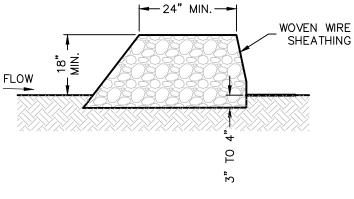
NOT-TO-SCALE

. DAMAGE FROM STORMS OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS TIRE RUTS OR DISTURBANCE OF SWALE STABILIZATION SHOULD BE REPAIRED AS SOON AS PRACTICAL.

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ISOMETRIC PLAN VIEW



SECTION "A-A'

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

. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE.

. 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

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.

MATERIALS

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.

NSTALLATION

. 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.

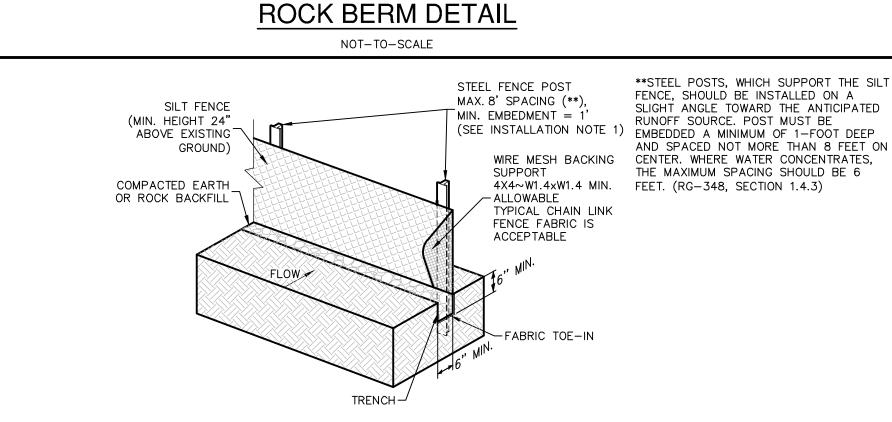
5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE

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

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)



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

. 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.

. 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 BRINDELL HARDNESS EXCEEDING 140.

3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

INSTALLATION

. 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 1/4 ACRE/100 FEET OF FENCE.

3. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

6. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

COMMON TROUBLE POINTS

FENCE NOT INSTALLED ALONG THE CONTOUR CAUSING WATER TO CONCENTRATE AND FLOW OVER THE FENCE. 2. FABRIC NOT SEATED SECURELY TO GROUND (RUNOFF PASSING UNDER

FENCE).

3. FENCE NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND SIDES)

4. FENCE TREATING TOO LARGE AN AREA, OR EXCESSIVE CHANNEL FLOW (RUNOFF OVERTOPS OR COLLAPSES FENCE).

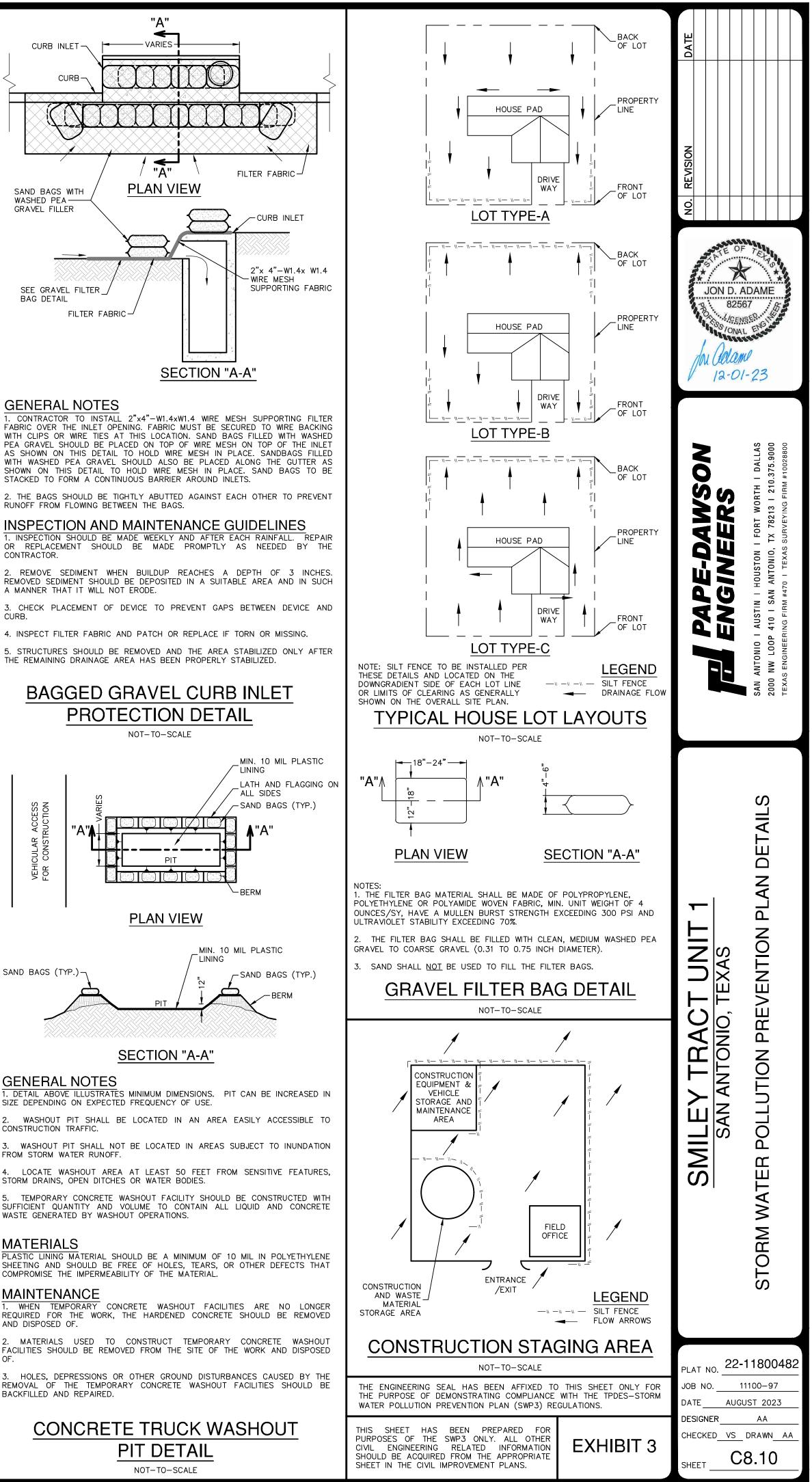
INSPECTION AND MAINTENANCE GUIDELINES 1. INSPECT ALL FENCING WEEKLY, AND AFTER RAINFALL

2. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.

3. REPLACE TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.

4. REPLACE OR REPAIR SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.

WHEN CONSTRUCTION IS COMPLETE, THE SEDIMENT SHOULD BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE ADDITIONAL SILTATION AND THE PRIOR LOCATION OF THE SILT FENCE SHOULD BE REVEGETATED. THE FENCE ITSELF SHOULD BE DISPOSED OF IN AN APPROVED LANDFILL.



GENERAL NOTES

MATERIALS

MAINTENANCE

BACKFILLED AND REPAIRED.

SILT FENCE DETAIL