Sheet List Table

DRAIN A1 PLAN & PROFILE (STA. 1+00.00 TO END)

SABINAL PLAN & PROFILE (STA. 1+00.00 TO END)

MELROSE FOREST PLAN & PROFILE (STA. 1+00.00 TO 10+00.00)

MONTGOMERY FOREST PLAN & PROFILE (STA. 1+00.00 TO 6+00.00)

MONTGOMERY FOREST PLAN & PROFILE (STA. 6+00.00 TO END)

MELROSE FOREST PLAN & PROFILE (STA. 10+00.00 TO END)

SEGOVIA RANCH PLAN & PROFILE (STA. 1+00.00 TO END)

SANITARY SEWER A PLAN & PROFILE (STA 1+00.00 TO END)

SANITARY SEWER B PLAN & PROFILE (STA 6+00.00 TO END)

SANITARY SEWER C PLAN & PROFILE (STA 1+00.00 TO END)

SANITARY SEWER D PLAN & PROFILE (STA 6+00.00 TO END)

STORM WATER POLLUTION PREVENTION PLAN DETAILS

STORM WATER POLLUTION PREVENTION PLAN

SANITARY SEWER B PLAN & PROFILE (STA 1+00.00 TO 6+00.00)

SANITARY SEWER D PLAN & PROFILE (STA 1+00.00 TO 6+00.00)

Sheet Number Sheet Title

C4.11

C5.00

C5.01

C5.02

C5.03

C5.04

C5.05

C5.06

C5.10

C5.11

C6.00

C8.00

C8.10

COVER SHEET

MASTER DRAINAGE PLAN

DRAINAGE DETAILS

DRAINAGE DETAILS

STREET DETAILS

STREET DETAILS

STREET DETAILS

SIGNAGE DETAILS

SIGNAGE DETAILS

**OVERALL SIGNAGE PLAN** 

OVERALL WATER DISTRIBUTION PLAN

WATER DISTRIBUTION PLAN DETAILS

WATER DISTRIBUTION PLAN NOTES

OVERALL SANITARY SEWER PLAN

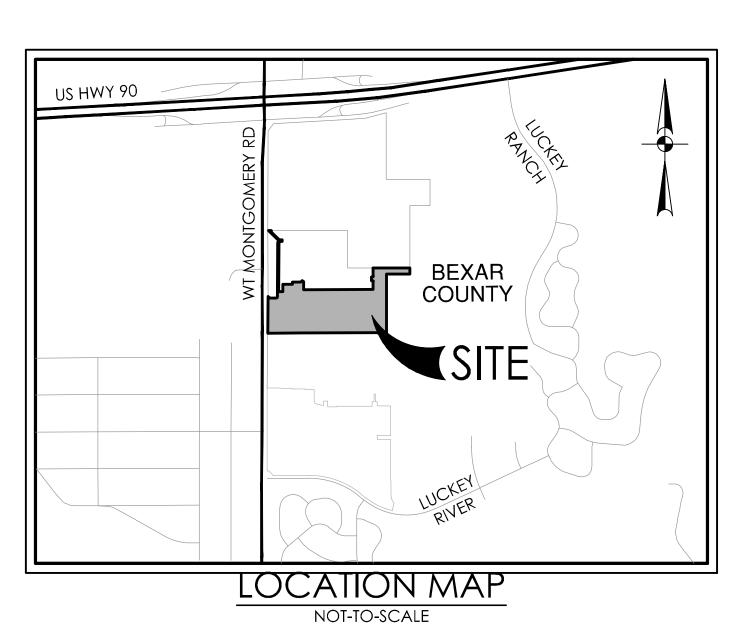
SANITARY SEWER DETAILS

SANITARY SEWER NOTES

OVERALL UTILITY PLAN

# CIVIL CONSTRUCTION PLANS

SAN ANTONIO, TEXAS

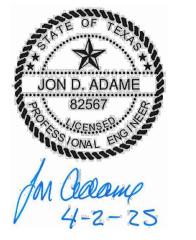


PREPARED FOR:

ROSEHAVEN HOMES, LLC 4007 MCCULLOGH AVE., ST. SAN ANTONIO, TX 78212

**APRIL 2025** 





WATER (SAWS PRESSURE ZONE 930 HGL)

DEVELOPER'S NAME: ROSEHAVEN HOMES, LLC ADDRESS: 4007 MCCULLOGH AVE., ST. 082558 SAWS BLOCK MAP# 084558 TOTAL EDU'S 122 TOTAL ACREAGE 19.75 1,317 LF 12" TOTAL LINEAR FOOTAGE OF PIPE:3,067 LF 8" PLAT NO. 24-11800426 NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1176

SEWER

DEVELOPER'S NAME: ROSEHAVEN HOMES, LLC ADDRESS: 4007 MCCULLOGH AVE., ST. TOTAL LINEAR FOOTAGE OF PIPE: 8" 3,503 LF PLAT NO.24-11800426 NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1648

C0.00

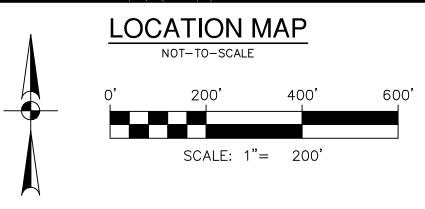
VILLAGE

MONTGOMERY

#### STANDARD NOTES:

- THE RESULTING ADVERSE IMPACT ANALYSIS, DRAINAGE
  PATTERNS, RUNOFF AND VOLUME CALCULATIONS ASSOCIATED WITH THIS PHASE OF DEVELOPMENT IS CONSISTENT WITH THE STORMWATER MANAGEMENT PLAN DEVELOPED FOR THE MASTER DEVELOPMENT PLAN SUBMITTED AND APPROVED ON 11/16/2022 (MDP NO. 22-11100027)
- 2. CONTRACTOR SHALL PHASE CONSTRUCTION AND/OR PROVIDE NECESSARY BMPs TO MITIGATE INTERIM CONDITIONS RUNOFF DURING CONSTRUCTION DUE TO CLEARING, GRADING, SUBGRADE PREPARATION, PAVING, BUILDINGS, ETC., AND TO PREVENT ADVERSE IMPACTS TO OTHER PROPERTY, STRUCTURES, AND INFRASTRUCTURE DURING CONSTRUCTION.
- 3. DETENTION POND EXCAVATION AND/OR EMBANKMENT NECESSARY FOR PROVIDING STORAGE MUST BE SUBSTANTIALLY COMPLETE PRIOR TO CONSTRUCTION OF FLEX BASE, PAVEMENT, POURING BUILDING SLABS, OR CONSTRUCTION OF FLEX BASE, PAVEMENT, POURING BUILDING SLABS, OR CONSTRUCTING OTHER IMPERVIOUS COVER WITHIN THE WATERSHED DRAINING TO THE DETENTION POND. CONTACT PUBLIC WORKS FOR A SITE INSPECTION.





#### MASTER DRAINAGE LEGEND

PROJECT LIMITS EXISTING CONTOUR

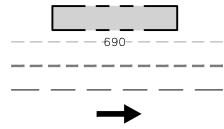
RUNOFF FLOW PATH

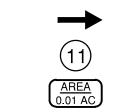
DRAINAGE AREA BOUNDARY

PROPOSED DIRECTION OF FLOW

DRAINAGE CALCULATION POINT

DRAINAGE AREA





HEC-HMS Drainage Summary

I I L C - I IIVI	Drainage S	diffiffat y				
Ref.	Condition	Drainage	e Areas	SCS Method Results		
Point	Condition	#	Area (Ac)	Return Year	Peak (cfs)	
				1	70	
7	PROPOSED	B2	106.56	5	162	
,			100.50	25	336	
				100	512	
				1	127	
8	PROPOSED	A1+A2+B2	155.29	5	266	
0	FROFOSED	+B1.3	133.29	25	516	
				100	759	

DRAINAGE EXHIBIT PD#: 12638-14

## **Proposed Conditions Calculations**

		Drainaç	ge Areas		th (ft)	0	verland/	Sheet F	low (TR-5	5)	Shallow Concentrated Flow - 1** Channe				Channelized Flow**			Rationa	al Method CoSA A			
Ref. Point	Structure / Description	#	Area (Ac)	С	Total Flowpath (ft)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							Тс-тот	Return Year	Intensity (in/hr)	_						
1	20'-CURB INLET IN-SAG	A1	7.47	0.70	1,087	100	0.150	3.91	0.030	7	987	Р	0.02	2.9	6	-	-	-	13 13 13	5 25 100	5.61 7.82 9.76	29.4 40.9 51.1
2	EXISTING CHANNEL	A1+A2	12.47	0.71	1,906	100	0.150	3.91	0.001	20	987	Р	0.04	4.0	4	819	4.2	3.3	27 27 27	5 25 100	3.88 5.32 6.60	34.4 47.2 58.5
3	EXISTING (4) - 5' SIDEWALK BOXES	А3	9.12	0.72	1,066	100	0.150	3.91	0.009	12	966	Р	0.01	2.0	8	-	-	-	20 20 20	5 25 100	4.51 6.21 7.71	29.7 40.8 50.7
4	EXISTING POND	B1.1	19.53	-		SEE STORMWATER MANAGEMET PLAN FOR HYROLOGY CALCULATIONS							0 0 0	5 25 100	- - -							
5	STREET CAPACITY/ SITE OUTFALL	B1.2	8.45	0.79	1,331	100	0.150	3.91	0.004	16	1,231	Р	0.02	2.9	7	-	-	-	23 23 23	5 25 100	4.21 5.77 7.17	28.2 38.6 47.9
6	EXISTING INFRASTRUCTURE	B2	78.69	-	;	SEE HWY 90 & MONTGOMERY TRACT STORMWATER MANAGEMET PLAN FOR HYROLOGY CALCULATIONS (PLAT NO. 23-11800112)							0 0 0	5 25 100	- - -	- - -						
7	EXISTING CHANNEL	B1.1+B1.2+B2	-	-		SEE STORMWATER MANAGEMET PLAN FOR HYROLOGY CALCULATIONS						0 0 0	5 25 100	- - -	- - -							
8	EXISTING CHANNEL	B1.3	-	-		SEE STORMWATER MANAGEMET PLAN FOR HYROLOGY CALCULATIONS							0 0 0	5 25 100	- - -	-						

**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

From TR-55 Equation 3-3\*

From TR-55 Figure 3-1\*\*

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 fps

DESIGNER CHECKED<u>VS</u> DRAWN<u>J</u>V

PLAT NO. 24-11800426

OB NO. 12638-14

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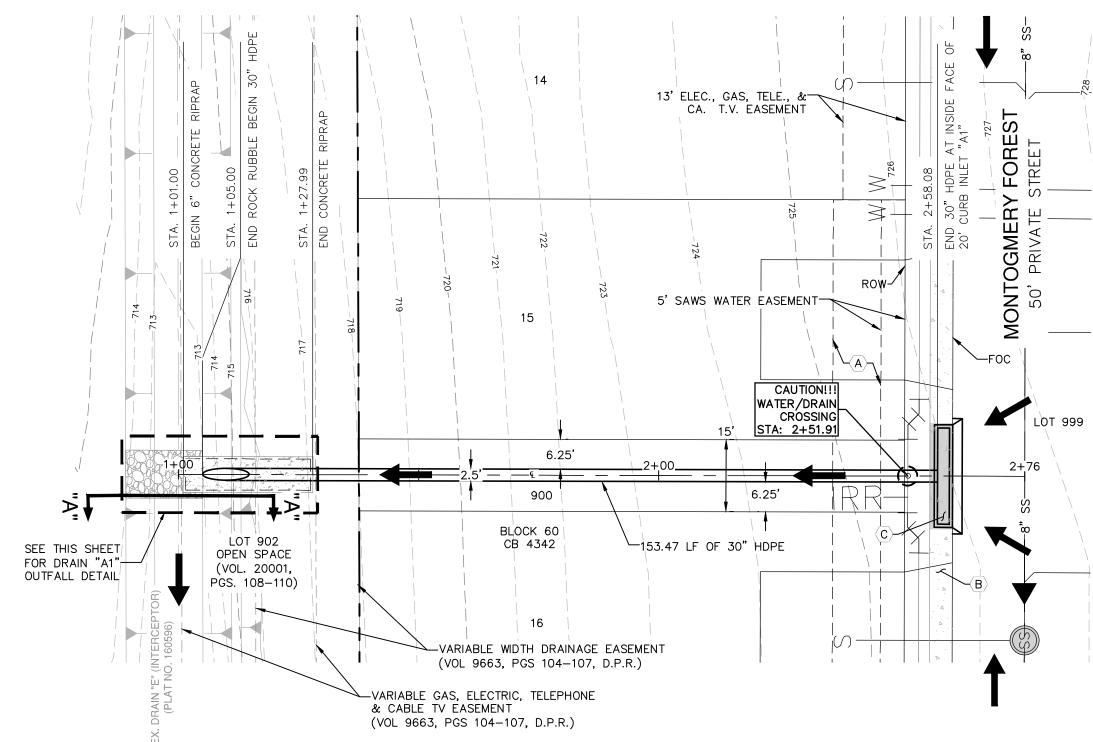
MONTGOMERY VILLA SAN ANTO

SODDING OR SEEDING

EXISTING EARTHEN TRAP CHANNEL

**SECTION "A-A"** 

NOT-TO-SCALE



# DRAINAGE LEGEND

SCALE: 1"= 20'

PROPOSED SEWER PROPOSED STORM DRAIN

PROJECT LIMITS

100 YR FLOODPLAIN

EXISTING CONTOUR PROPOSED CONTOUR

PROPOSED WATER

EXISTING STORM DRAIN

FLOW ARROW

#### **KEY LEGEND**

- A 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
- (B) 4' SIDEWALK
- C 4' DEVELOPER SIDEWALK
- (D) CONCRETE COLLAR SEE DETAIL SHEET C1.11

# DRAIN "A1"

Q = 40.9 CFS

C = 3.087, h = 0.7940.9 CFS

# HYDRAULIC CALCULATION **CURB OPENING**

 $Q = CL(h)^{3/2} \text{ (WEIR EQN.)}$ 

 $(3.087) (0.79)^{3/2}$ L =18.87 FT USE 1  $\sim$  20 FT CURB INLET

# **DRAINAGE & GRADING NOTES:**

- 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING II BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFI 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 EXAC 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 TXDO SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PS CYLINDER STRENGTH IN 28 DAYS.
- 4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BO 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 TH

#### BEXAR COUNTY FLOOD PLAIN GENERAL **CONSTRUCTION NOTES:**

- 1. CONTRACTOR IS TO MAINTAIN UNRESTRICTED DRAINAGE OF TH PROJECT SITE AND ADJACENT AREAS DURING CONSTRUCTION.
- 2. NO CONSTRUCTION MATERIAL AND/OR WASTE MATERIAL SHALL PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF

#### THE EXISTING FLOOD PLAIN. TRENCH EXCAVATION SAFETY PROTECTION:

THE EXISTING NATURAL DRAINAGE OR PLACED WITHIN THE LIMITS OF

CONTRACTOR AND / OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYS 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 TRENCI EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND 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/OF CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM I ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. CAUTION!!

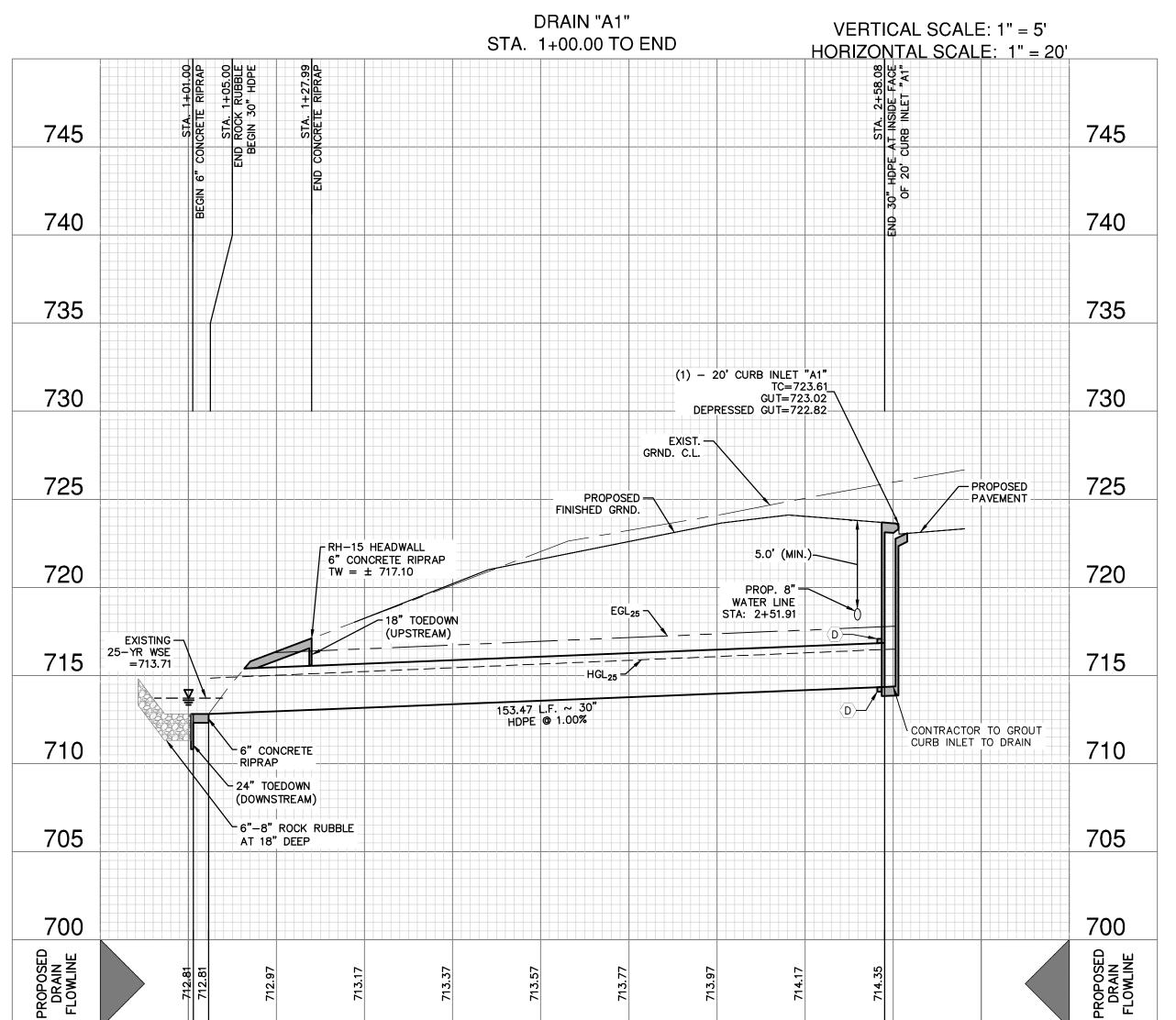
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES.

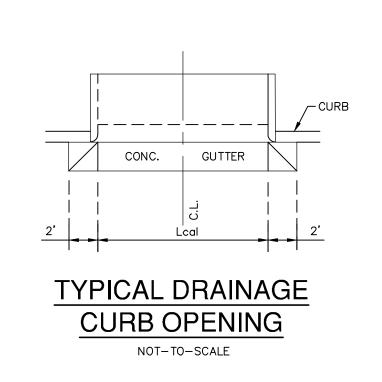
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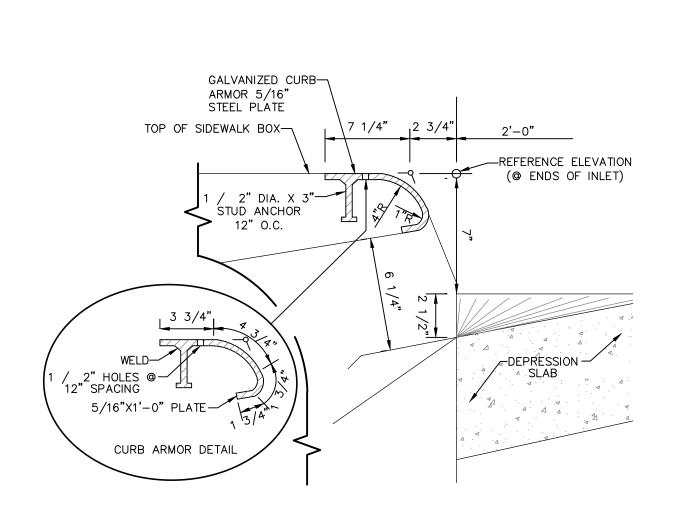
NO 24-11800426 12638-14 MARCH 2025

DESIGNER ΡW HECKED VS DRAWN JV





PROPOSED 6"-8" ROCK RUBBLE @ 18" DEEP



**CURB ARMOR DETAIL** 

NOT-TO-SCALE

HIS 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,CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service Agency.

1+60 1+80

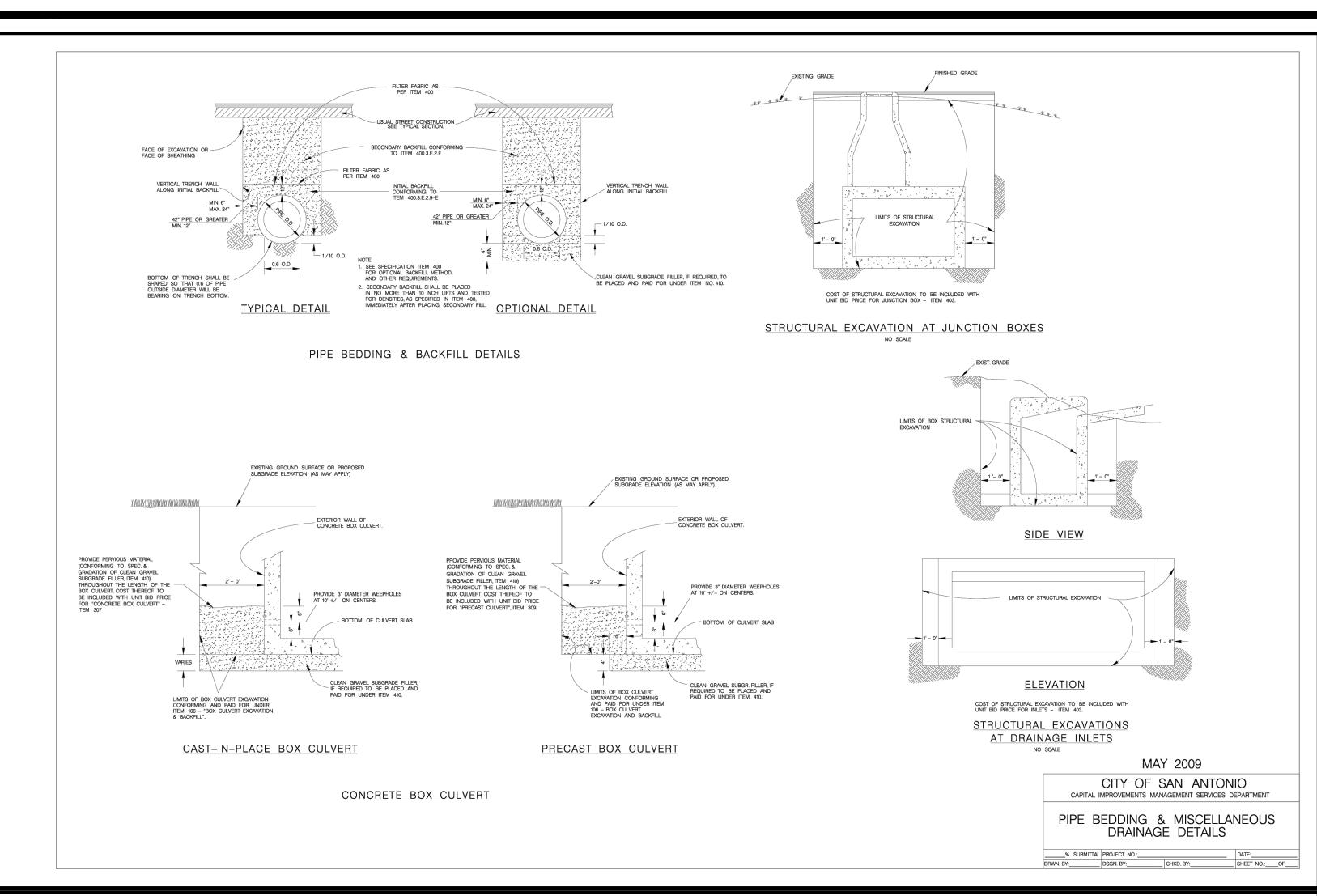
2+00 2+20 2+40

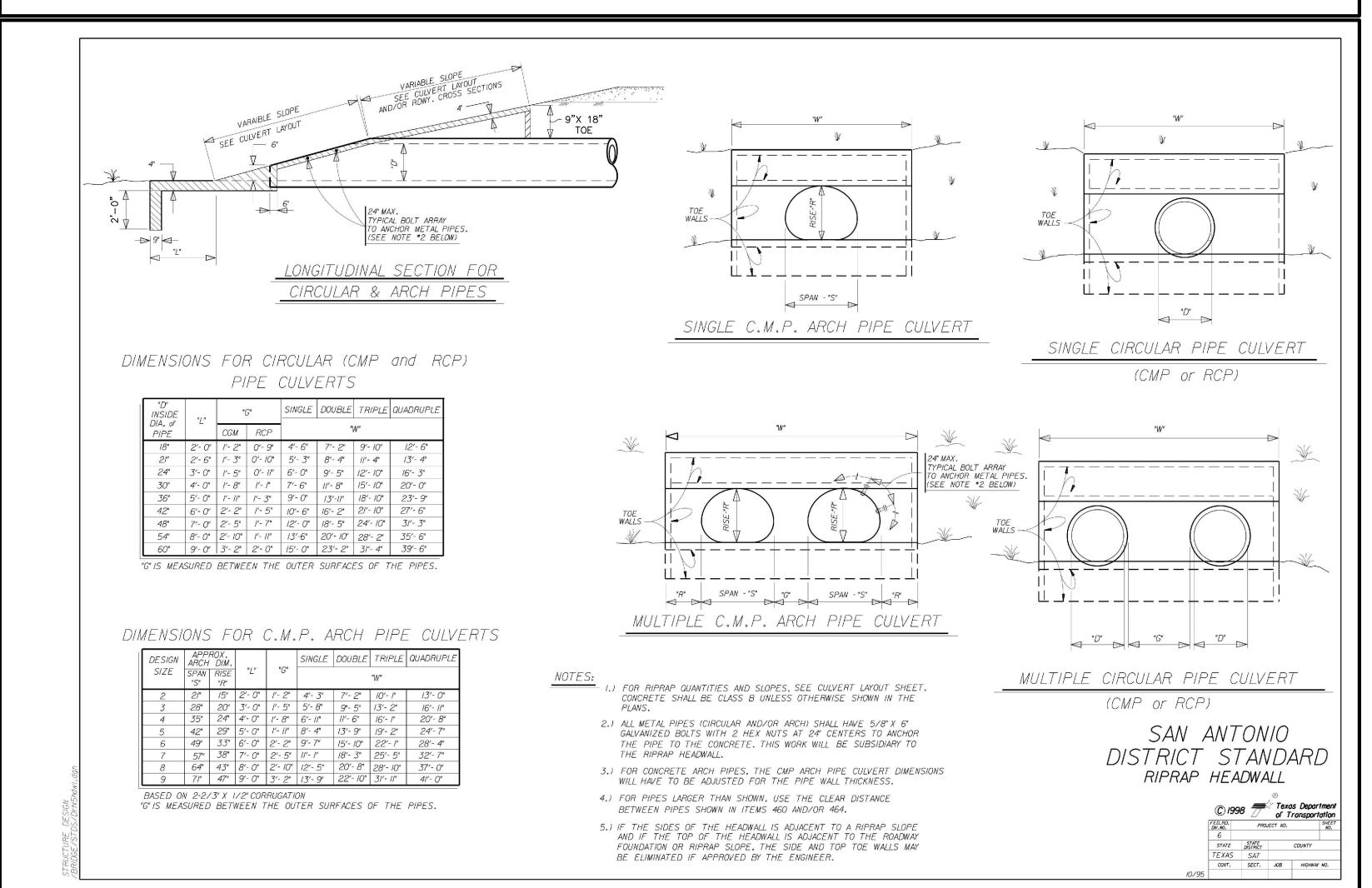
1+20

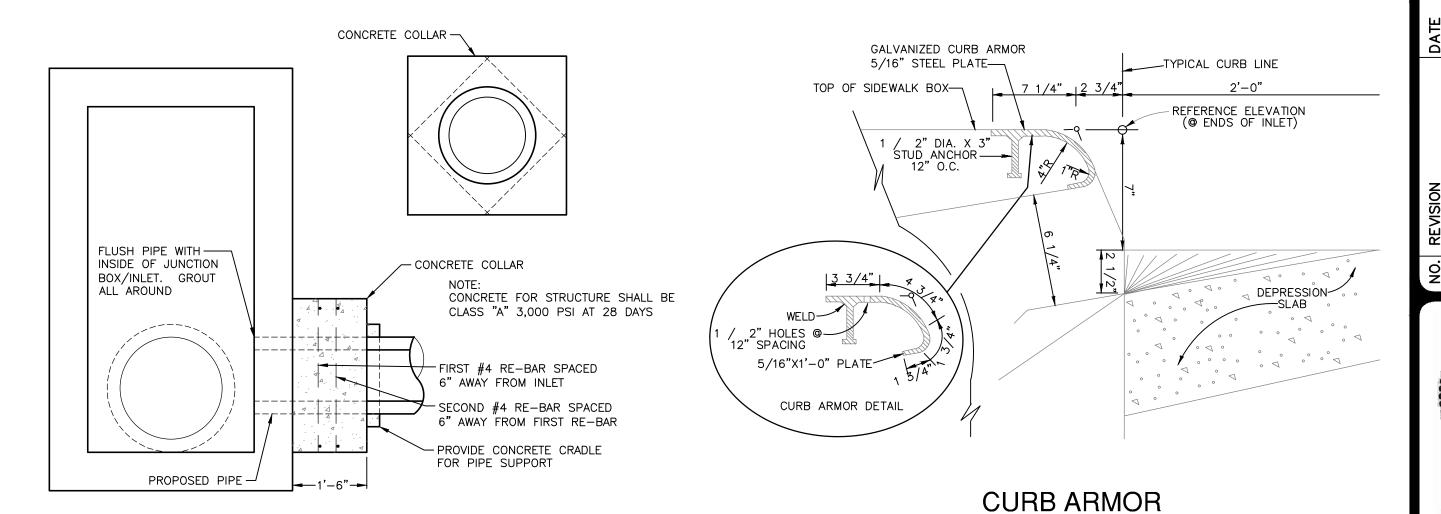
1 + 40

THESE PLANS OR NOT.

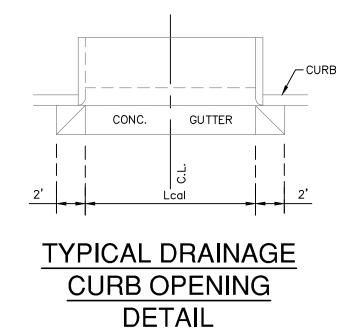
ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO T START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL B AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN OF



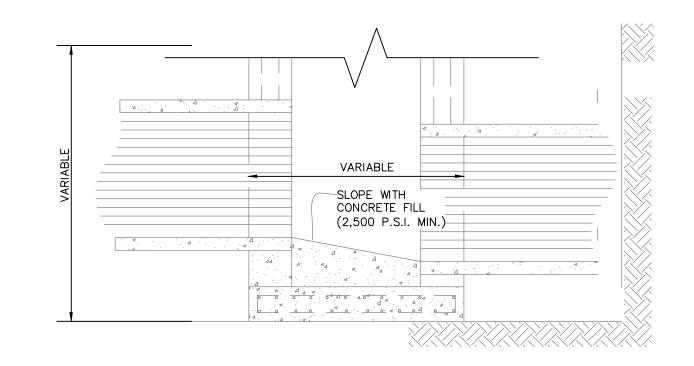




#### CONCRETE COLLAR DETAIL NOT-TO-SCALE



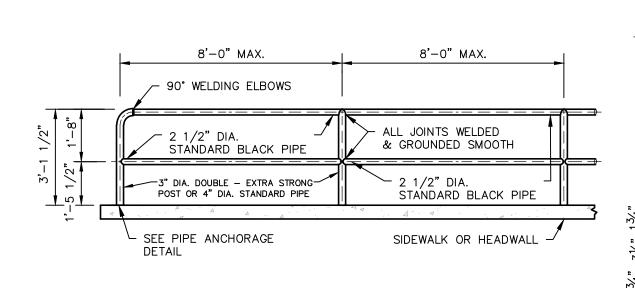
NOT-TO-SCALE



**DETAIL** 

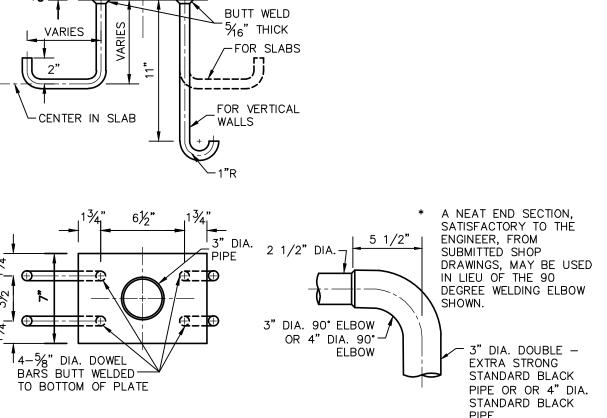
NOT-TO-SCALE





1. FOR CONSTRUCTION WITHIN THE CITY OF SAN ANTONIO ETJ AND/OR BEXAR COUNTY, PIPE SHALL BE STANDARD BLACK PIPE PAINTED WITH 1 COAT OF READ PRIMER AND 2 COATS OF ALUMINUM PAINT

> PIPE RAILING DETAIL NOT-TO-SCALE



∕-3" DIA. PIPE

PIPE ANCHORAGE 90° WELDING ELBOWS **DETAIL** 

NOT-TO-SCALE

**DETAIL** NOT-TO-SCALE

MONT T<sub>PLAT NO.</sub> 24-11800426 12638-14 MARCH 2025 DESIGNER CHECKED VS DRAWN JV

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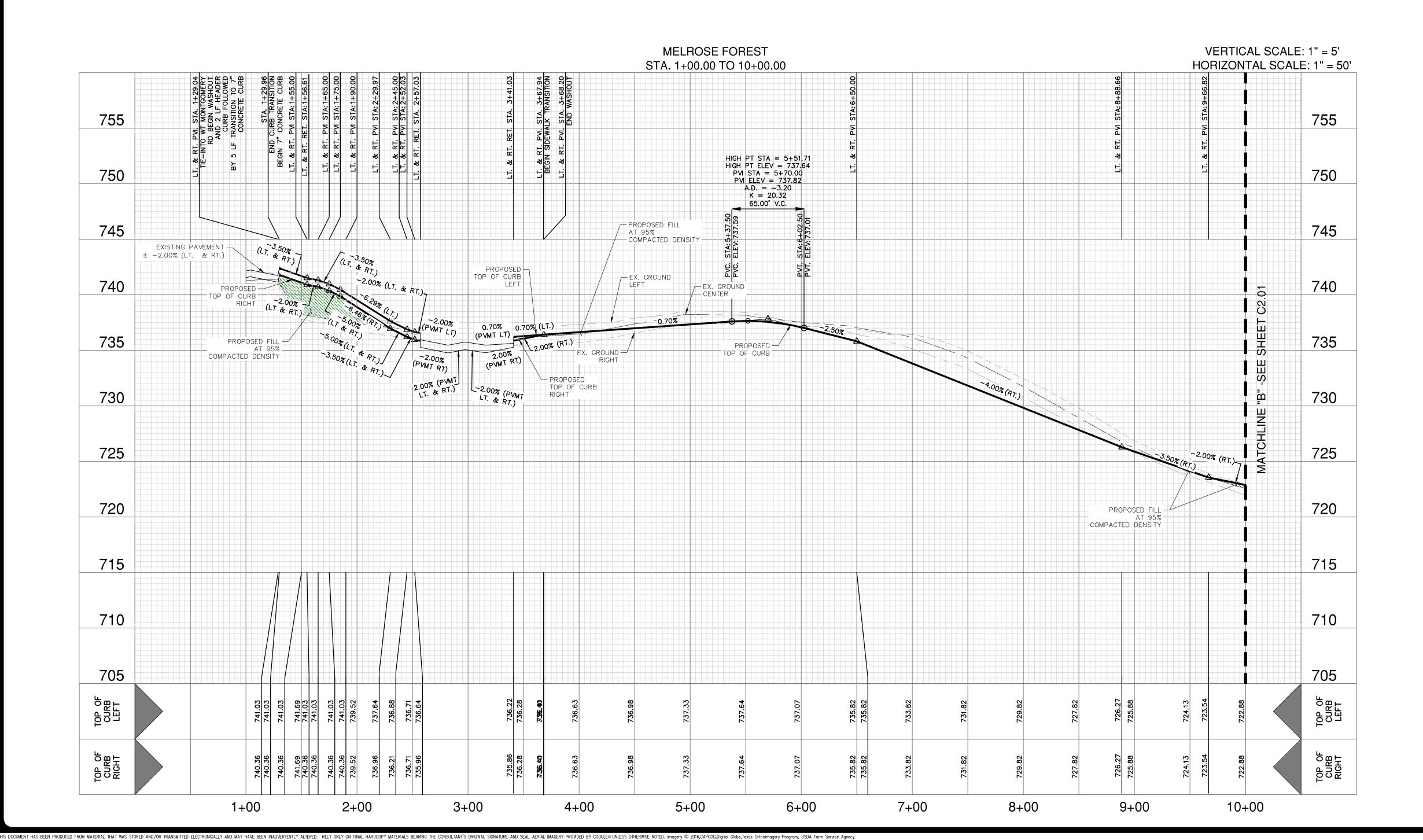
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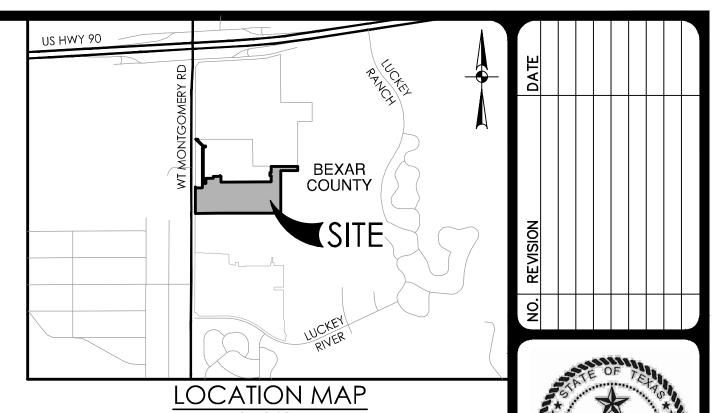
Y VILLAGE SAN ANTONIO, T

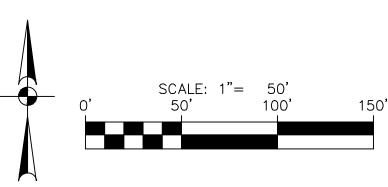
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#### STREET LEGEND

PROJECT LIMITS		_
MAINTAIN GUTTER	$- \rightarrow \rightarrow$	>
EXISTING CONTOUR	———— 970-——	
WHEELCHAIR RAMP	$\oplus$	
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 (HOMEOWNER'S RESPONSIE	BILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBI	ILITY)	
DRIVEWAY		

- 50'X60' CONSTRUCTION EASEMENT. TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET R.O.W. (0.068 AC OFF-LOT)
- © VARIABLE WIDTH TEMPORARY WATER EASEMENT. TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET R.O.W. (0.264 AC OFF-LOT)

#### STREET NOTES:

- 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING 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. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE—IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.

TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.

- 3. SIDEWALKS SHALL BE CONSTRUCTED 3—FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER
- 4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 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 TH CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE TH ADJACENT TOP OF PAVEMENT.
- 5. 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.
- 6. 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 (Q)(6).
- 7. THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN.

UNIT VILLAGE SAN ANTONIO, T

JON D. ADAME

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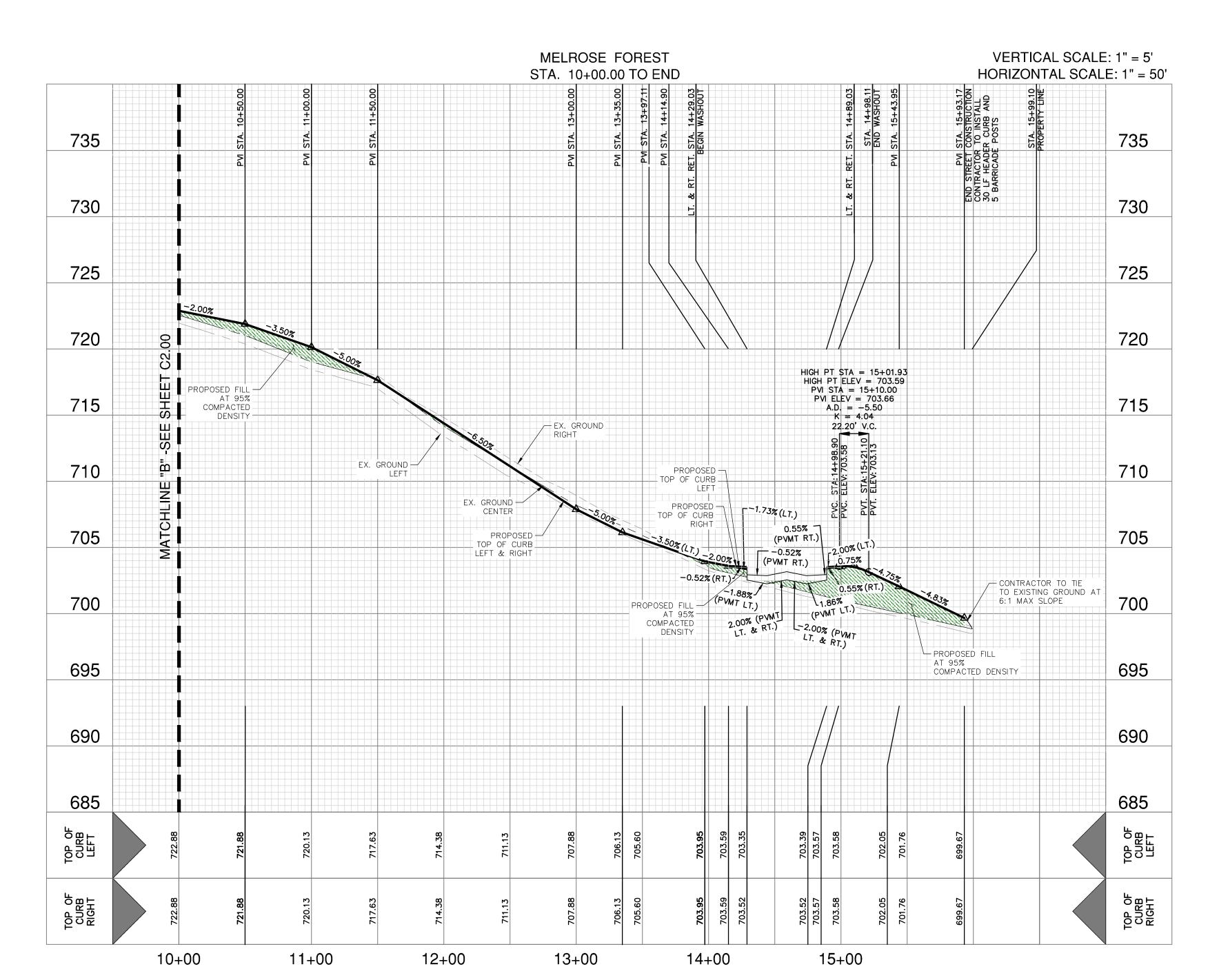
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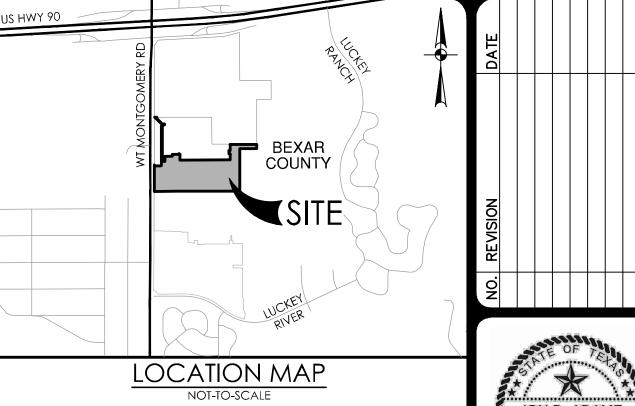
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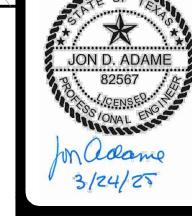
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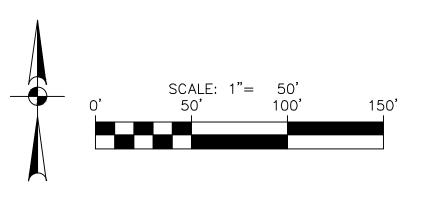
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# STREET LEGEND

PROJECT LIMITS	
MAINTAIN GUTTER	$\longrightarrow$ — —
EXISTING CONTOUR ——	- — — 970 - —
WHEELCHAIR RAMP	①
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 (HOMEOWNER'S RESPONSIBILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
DRIVEWAY	

#### STREET NOTES:

- 1. A BEXAR COUNTY 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. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE—IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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 (Q)(6).
- 7. THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN.

SAN ANTONIO, TEXAS

PLAT NO. 24-11800426

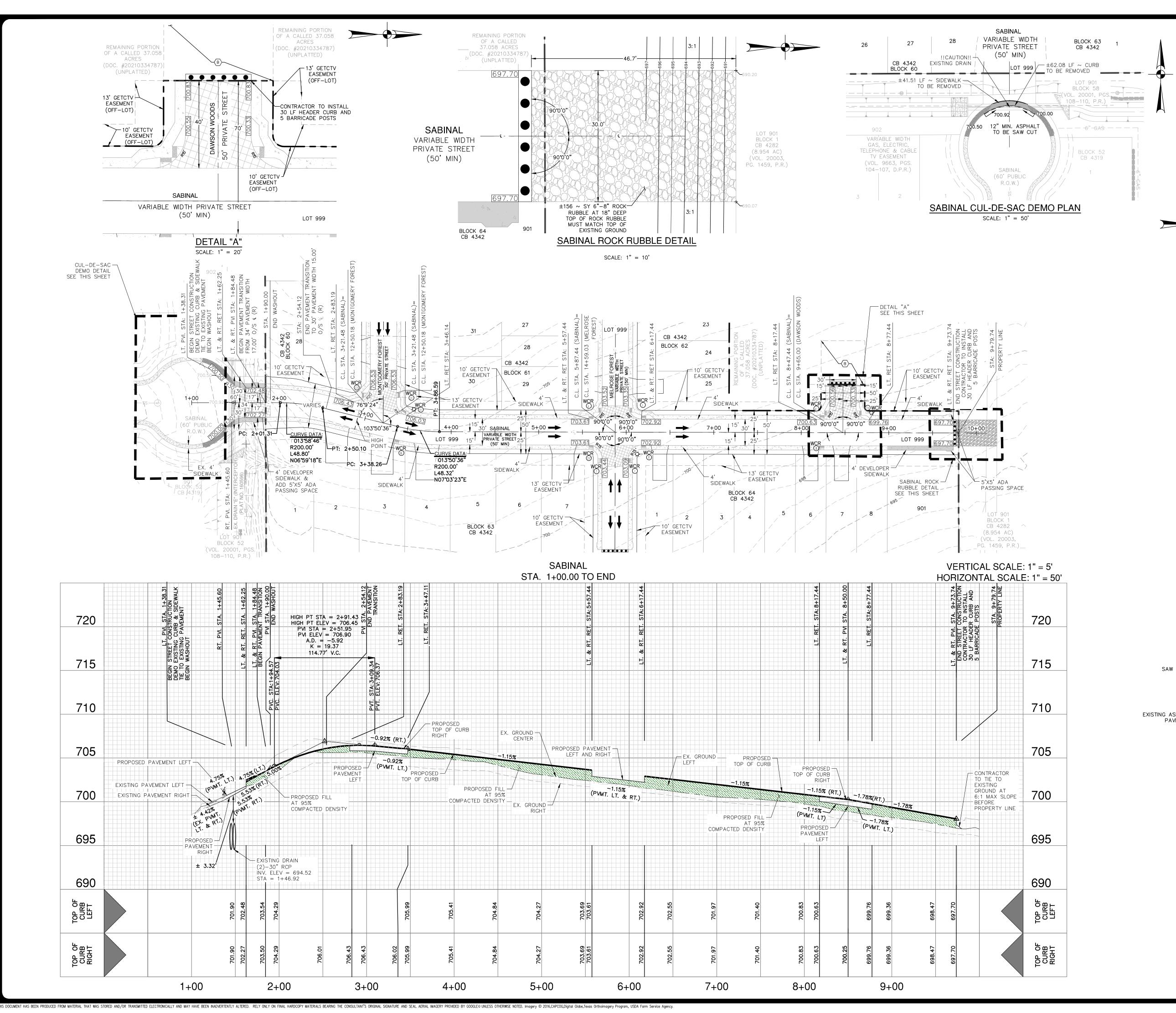
JOB NO. 12638-14

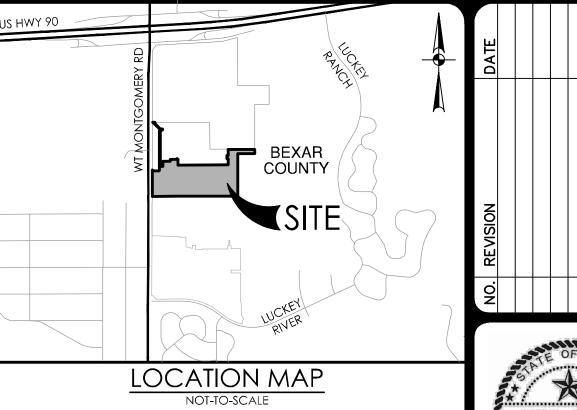
DATE MARCH 2025

DESIGNER PW

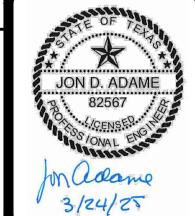
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150'

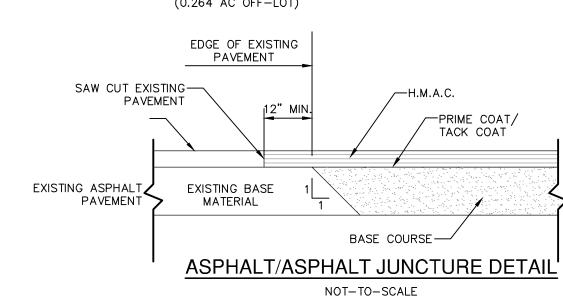


STREET LEGEND

PROJECT LIMITS MAINTAIN GUTTER EXISTING CONTOUR WHEELCHAIR RAMP CENTERLINE RADIUS POINT POINT OF CURVATURE POINT OF TANGENCY RETURN RET DRAINAGE FLOW ARROW 857.30 TOP OF CURB SPOT ELEVATION PAVEMENT ELEVATION 857.00(P) × WASHOUT CROWN SECTION SIDEWALK (HOMEOWNER'S RESPONSIBILITY) SIDEWALK (DEVELOPER'S RESPONSIBILITY) DRIVEWAY

SCALE: 1"= 50'

- 50'X60' CONSTRUCTION EASEMENT.
  TO EXPIRE UPON INCORPORATION
  INTO PLATTED PUBLIC STREET
  R.O.W. (0.068 AC OFF-LOT)
- (B) 50'X50' CONSTRUCTION EASEMENT. TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET R.O.W. AND PLATTED GETCTV EASEMENT. (0.057 AC OFF-LOT)
- VARIABLE WIDTH TEMPORARY WATER EASEMENT. TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET R.O.W. (0.264 AC OFF-LOT)



#### STREET NOTES:

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- 2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE—IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- 3. 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.
- 4. 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.
- 5. 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.
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MONTGOMERY VILLAGE UNIT 1 (I

 $\Box$ 

ABIN,

VE)

PLAT NO. 24-11800426

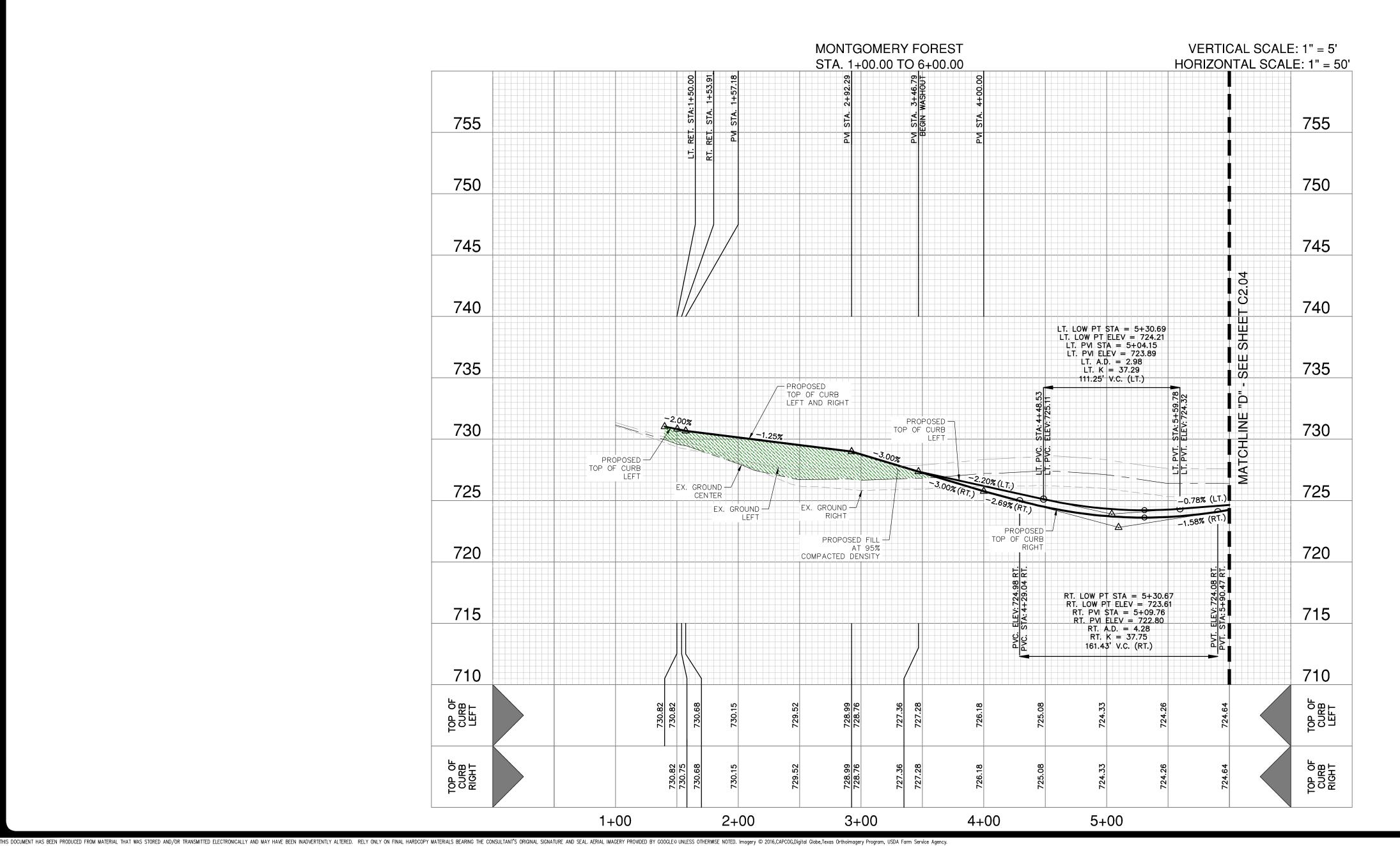
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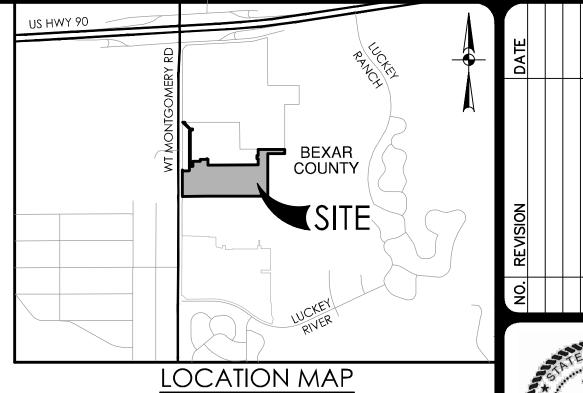
DATE MARCH 2025

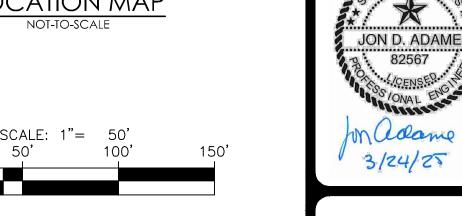
DESIGNER PW

CHECKED VS DRAWN JV

SHEET C2.02







## STREET LEGEND

PROJECT LIMITS ———	
MAINTAIN GUTTER	<u> </u>
EXISTING CONTOUR ——-	——— 970 - —
WHEELCHAIR RAMP	$\oplus$
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	<b>-</b>
TOP OF CURB SPOT ELEVATION	857.30
PAVEMENT ELEVATION	857.00(P) ×
WASHOUT CROWN SECTION	
SIDEWALK (HOMEOWNER'S RESPONSIBILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
DRIVEWAY	

# ENGINEE

#### STREET NOTES:

ADJACENT TOP OF PAVEMENT.

- 1. A BEXAR COUNTY 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.
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MONTGOMERY VILLAGE UNIT 1 (ENC SAN ANTONIO, TEXAS

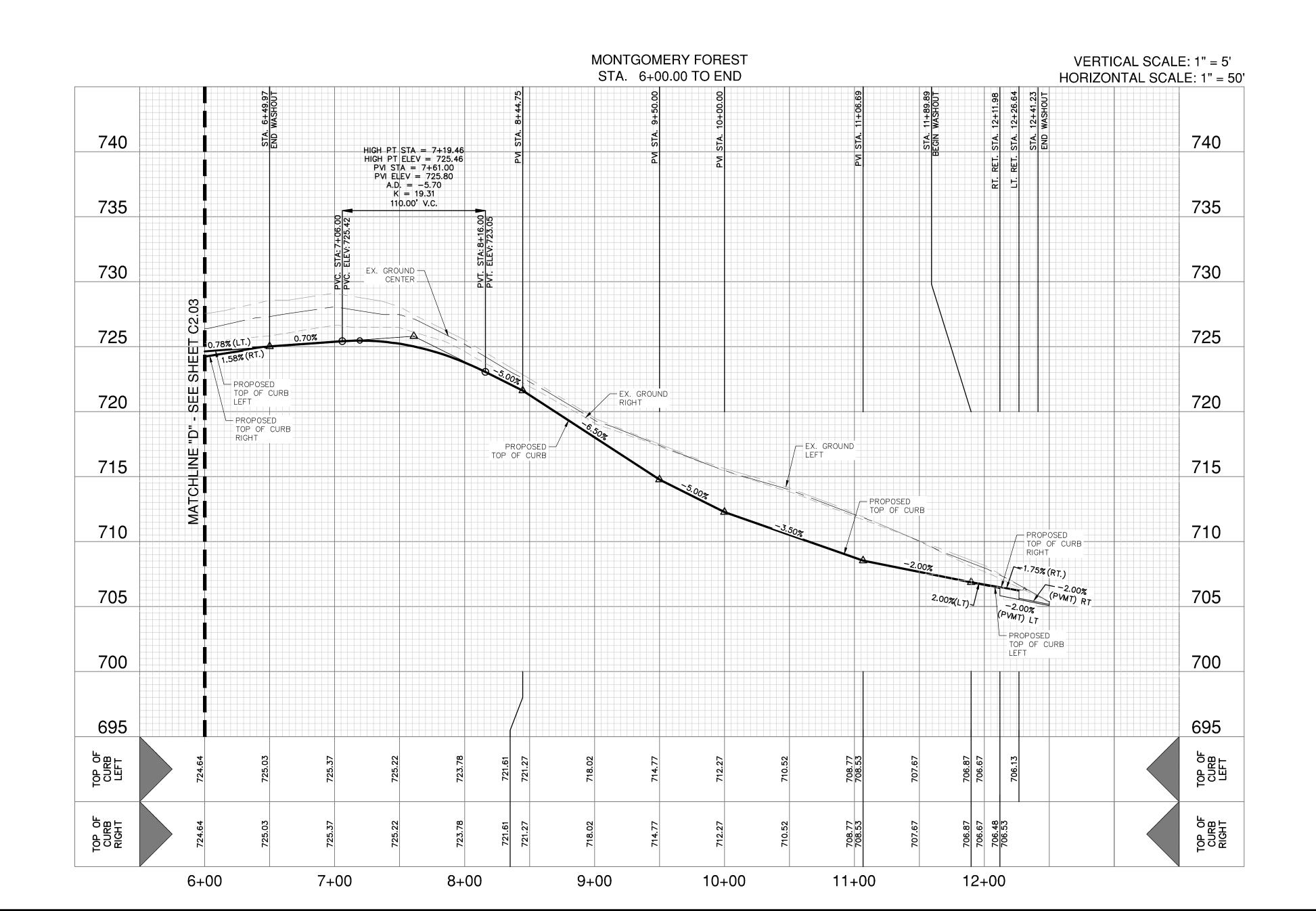
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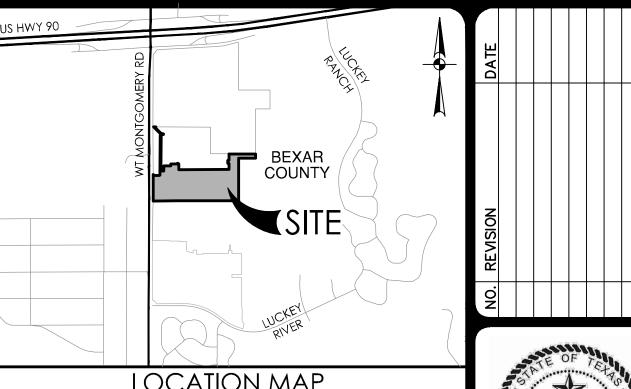
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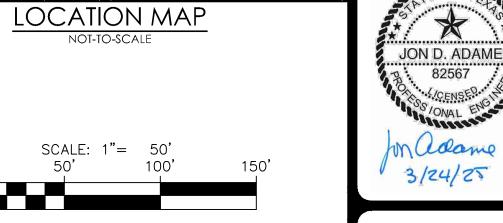
ATE MARCH 2025

SIGNER PW

DESIGNER PW
CHECKED VS DRAWN JV
SHEET C2.03







## STREET LEGEND

PROJECT LIMITS -	
MAINTAIN GUTTER	· ->
EXISTING CONTOUR — —	970
WHEELCHAIR RAMP	①
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	<b>-</b>
TOP OF CURB SPOT ELEVATION	857.30
PAVEMENT ELEVATION	857.00(P) ×
WASHOUT CROWN SECTION	
SIDEWALK (HOMEOWNER'S RESPONSIBILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
DRIVEWAY	

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SAN ANTONIO, TEXAS

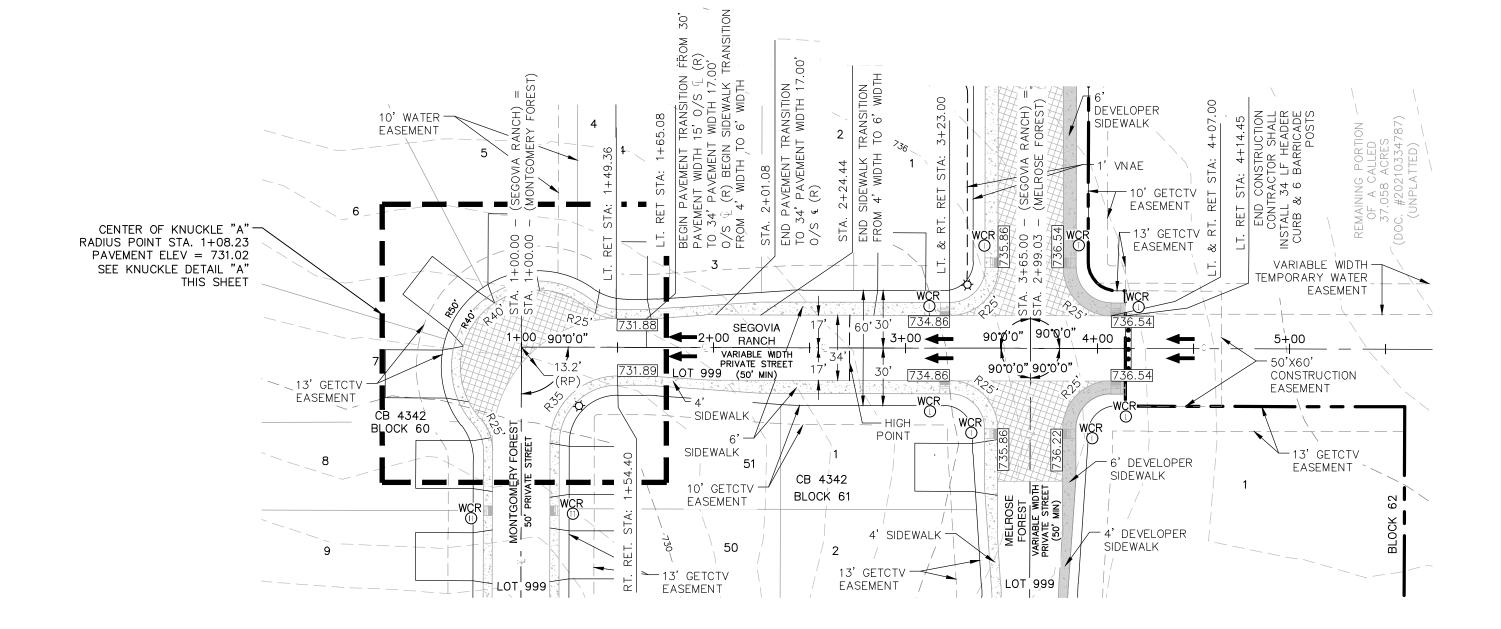
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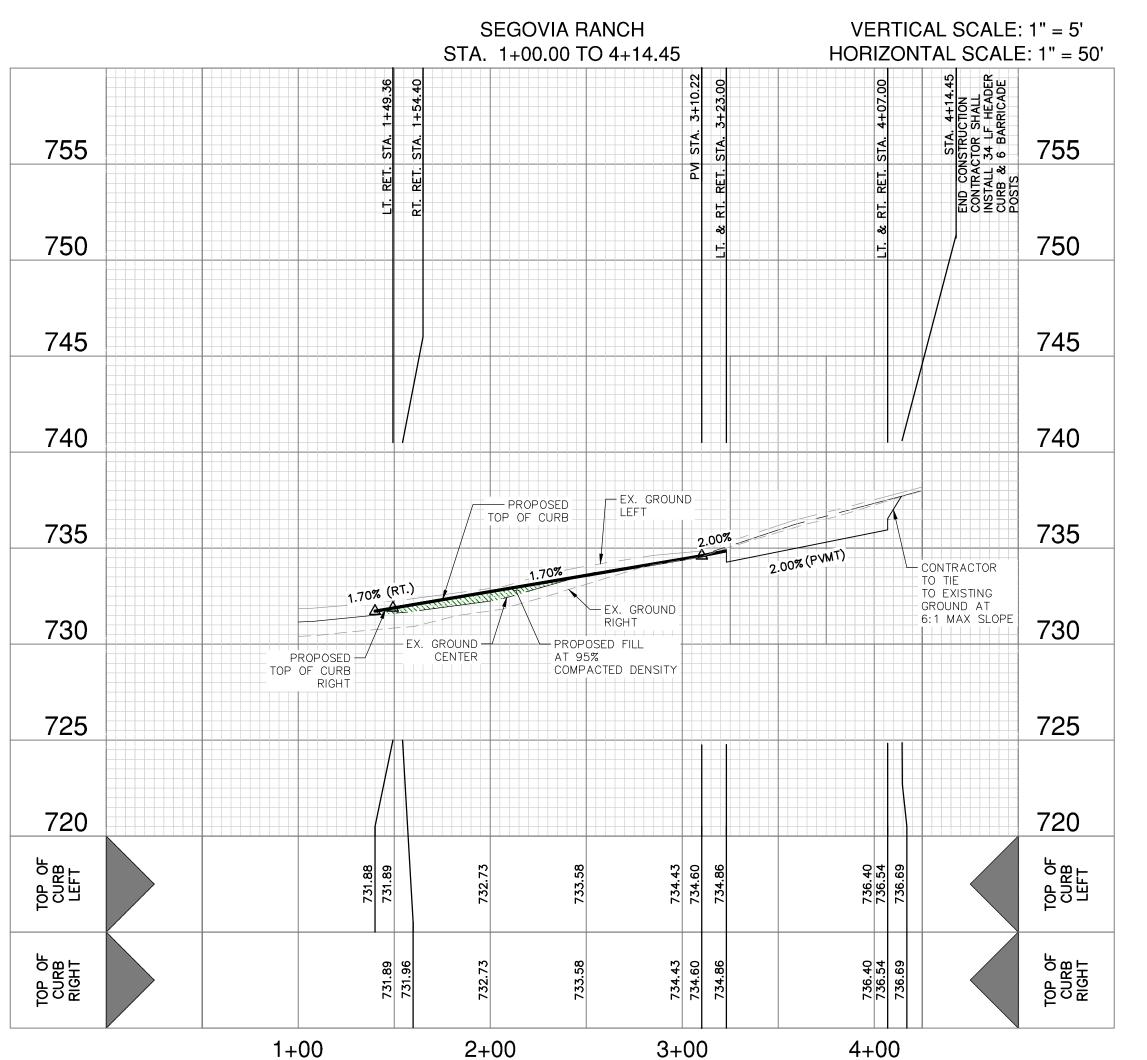
JOB NO. 12638-14

DATE MARCH 2025

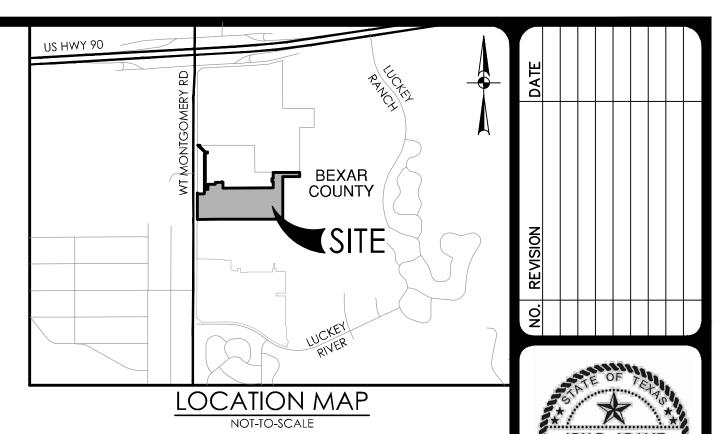
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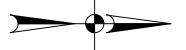
hecked<u>vs</u> drawn<u>jv</u> heet **C2.04**  KNUCKLE DETAIL "A" SCALE: 1" = 30'

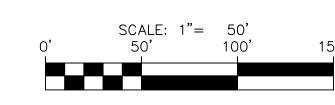




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#### STREET LEGEND

PROJECT LIMITS	
MAINTAIN GUTTER	$\rightarrow$ — $\rightarrow$
EXISTING CONTOUR — — —	970 - — -
WHEELCHAIR RAMP	<b>①</b>
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 (HOMEOWNER'S RESPONSIBILITY)	
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
DRIVEWAY	

JON D. ADAME

In adame 3/24/25

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<sub>NO</sub> 24-11800426 OB NO. 12638-14 MARCH 2025 DESIGNER

HECKED VS DRAWN JV

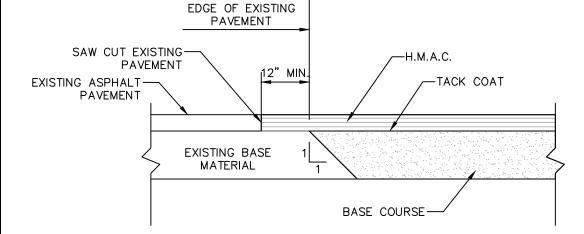
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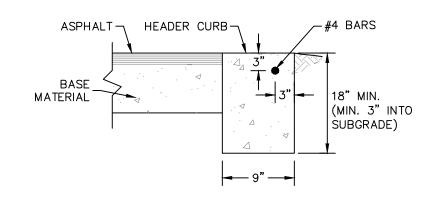
	PAVEMENT SECTION DETAIL								
STREET NAME	STATION	TYPE "D" HMAC	TYPE "C" HMAC	CRUSHED LIMESTONE BASE	STABILIZED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NUMBER	
MELROSE FOREST (LOCAL B)	1+29.04 TO 4+28.29	1.5"	2.5"	18.5"	8"	NO	2	4.99	
SABINAL (LOCAL B)	1+38.31 TO 2+54.12	1.5"	2.5"	18.5"	8"	NO	2	4.99	
SEGOVIA RANCH (LOCAL B)	1+65.08 TO 4+14.45	1.5"	2.5"	18.5"	8"	NO	2	4.99	
MELROSE FOREST (LOCAL A)	4+28.29 TO 15+93.17	2"	_	10"	8"	NO	2	2.92	
SABINAL (LOCAL A)	2+54.12 TO 9+73.74	2"	_	10"	8"	NO	2	2.92	
MONTGOMERY FOREST (LOCAL A)	1+00.00 TO 12.50.18	2"	_	10"	8"	NO	2	2.92	
SEGOVIA RANCH (LOCAL A)	1+00.00 TO 1+65.08	2"	_	10"	8"	NO	2	2.92	

1/4" PER FT (MIN) 17" PER FT (MIN) 17" PER FT (COMPACTED 95% MAXIMUM DENSITY)  LOCAL TYPE A STREET SECTION NOT-TO-SCALE	SAW CUT EXISTING PAVEMENT EXISTING ASPHALT PAVEMENT EXIST MA  ASPHALT
1/4" PER FT 1" PER FT (MIN) 17" PER FT (MIN) 17" PER FT (MIN) 18	ASPHALT —  BASE  MATERIAL



#### LT/ASPHALT JUNCTURE DETAIL

NOT-TO-SCALE



HEADER CURB DETAIL NOT-TO-SCALE

LIMITS OF MEASUREMENT FOR STREET EXCAVATION ASPHAL 1 THICKNESS-PER PROJECT SPECIFICATIONS. THICKNESS MAINTAIN POSITIVE DRAINAGE SUBGRADE PER -PAVEMENT SECTION \*THICKNESS OF BASE IN OVER EXCAVATION AREA IS EQUAL TO TOTAL PAVEMENT PAY LIMITS FOR STREET EXCAVATION LIME -SECTIONS THICKNESS MINUS TREATMENT FOR SUBGRADE, FLEXIBLE BASE, 5.5", OR 4" MINIMUM ASPHALT TREATED BASE AND PRIME COAT

JON D. ADAME

Cloame

3/24/25

DESIGNER

24-11800426

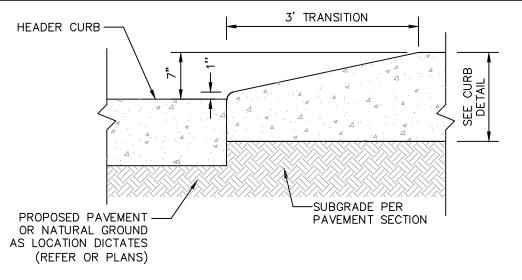
12638-14

MARCH 2025

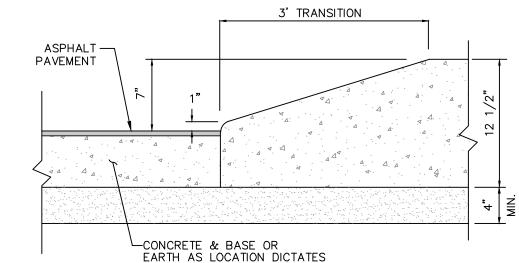
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CHECKED VS DRAWN JV

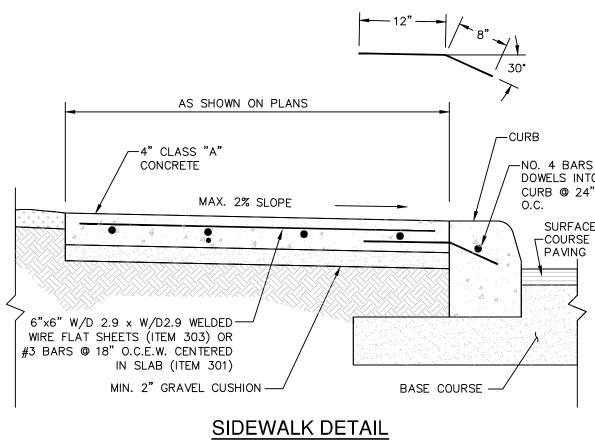
#### CONCRETE CURB DETAIL NOT-TO-SCALE



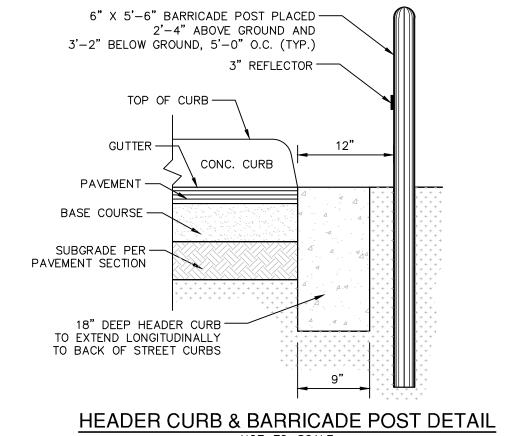
#### **CURB TRANSITION DETAIL** (FROM HEADER CURB TO STANDARD CURB NOT-TO-SCALE

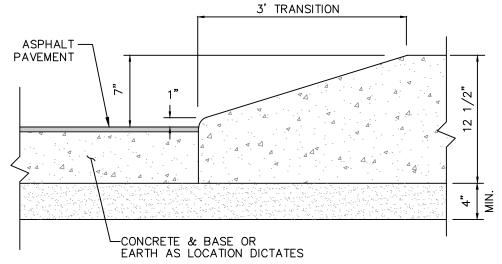


#### **CURB TRANSITION DETAIL** (FROM PAVEMENT TO STANDARD CURB)

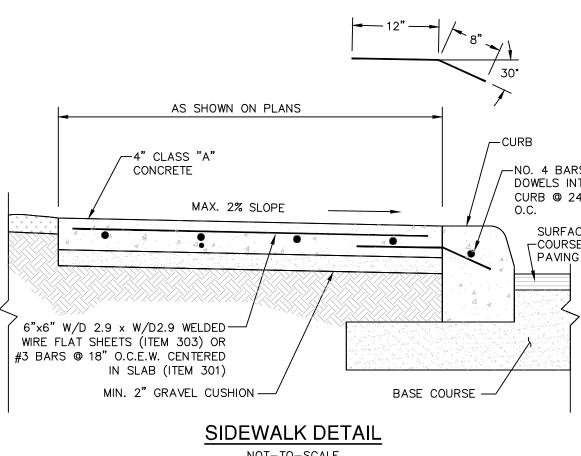


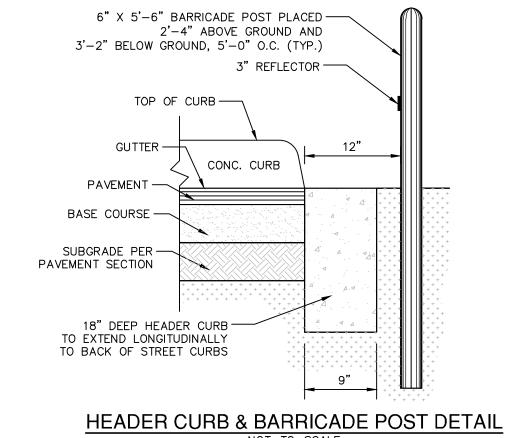
NOT-TO-SCALE





# NOT-TO-SCALE





# **GENERAL NOTES:**

- I. CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT PREPARED BY INTEGRATED TESTING AND ENGINEERING COMPANY OF SAN ANTONIO, L.P. DATED DECEMBER 06, 2024.
- 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 LIME 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
- 6. IN THE EVENT THAT THE CLAY FILL USED IS DIFFERENT THAN THE EXISTING SUBGRADE, THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT COULD BE INVALIDATED AND THE DESIGN ENGINEER MUST BE CONSULTED TO DETERMINE IF ADDITIONAL CBR TESTING AND THICKER PAVEMENT SECTIONS ARE
- 7. WHERE PAVEMENT SUBGRADE IS LOCATED WITHIN 2-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 MOISTURE 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 2 AND A MAXIMUM PI OF 55. THE GRAVEL SIZE SHOULD NOT EXCEED 3 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.

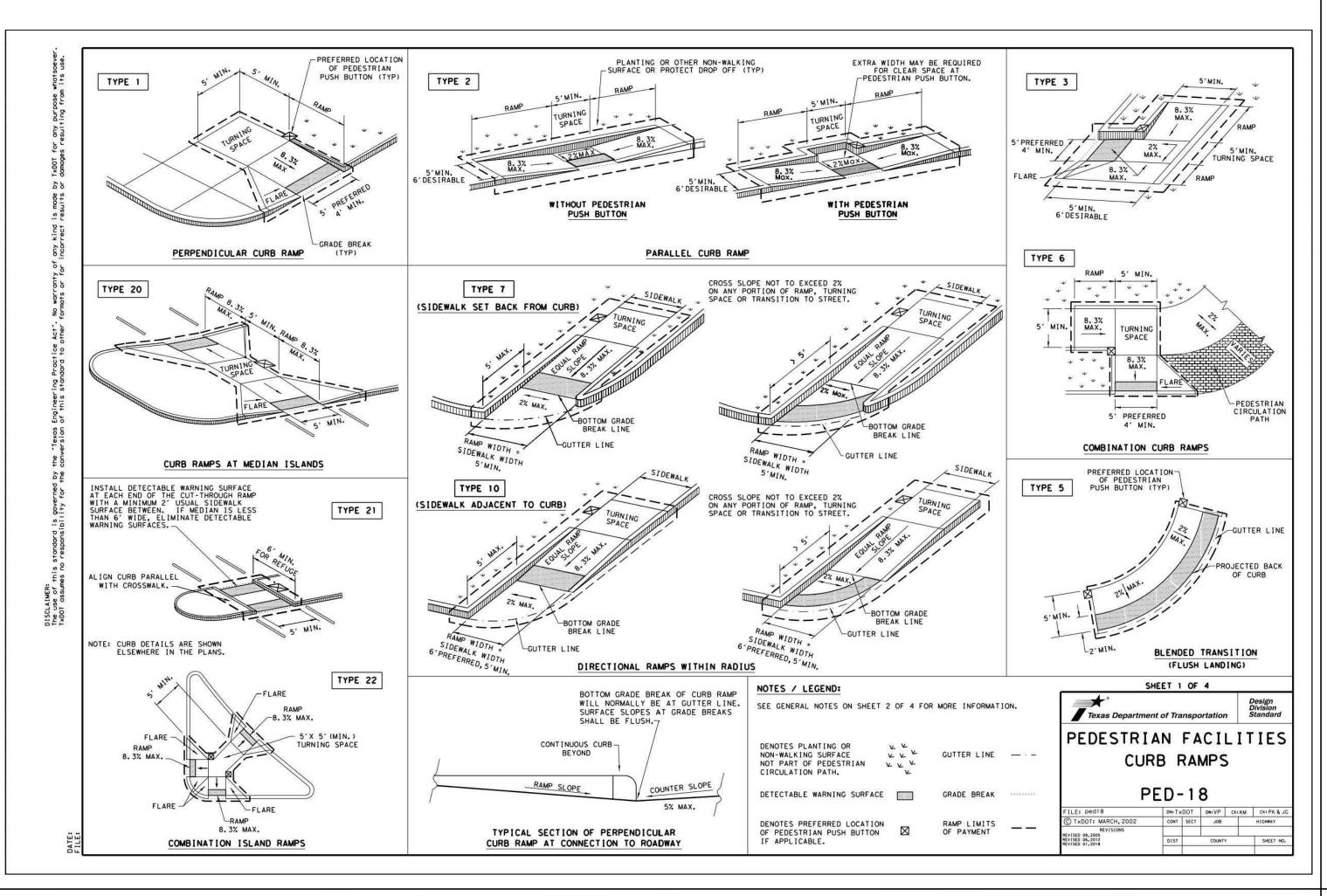
#### STREET SUBGRADE NOTES:

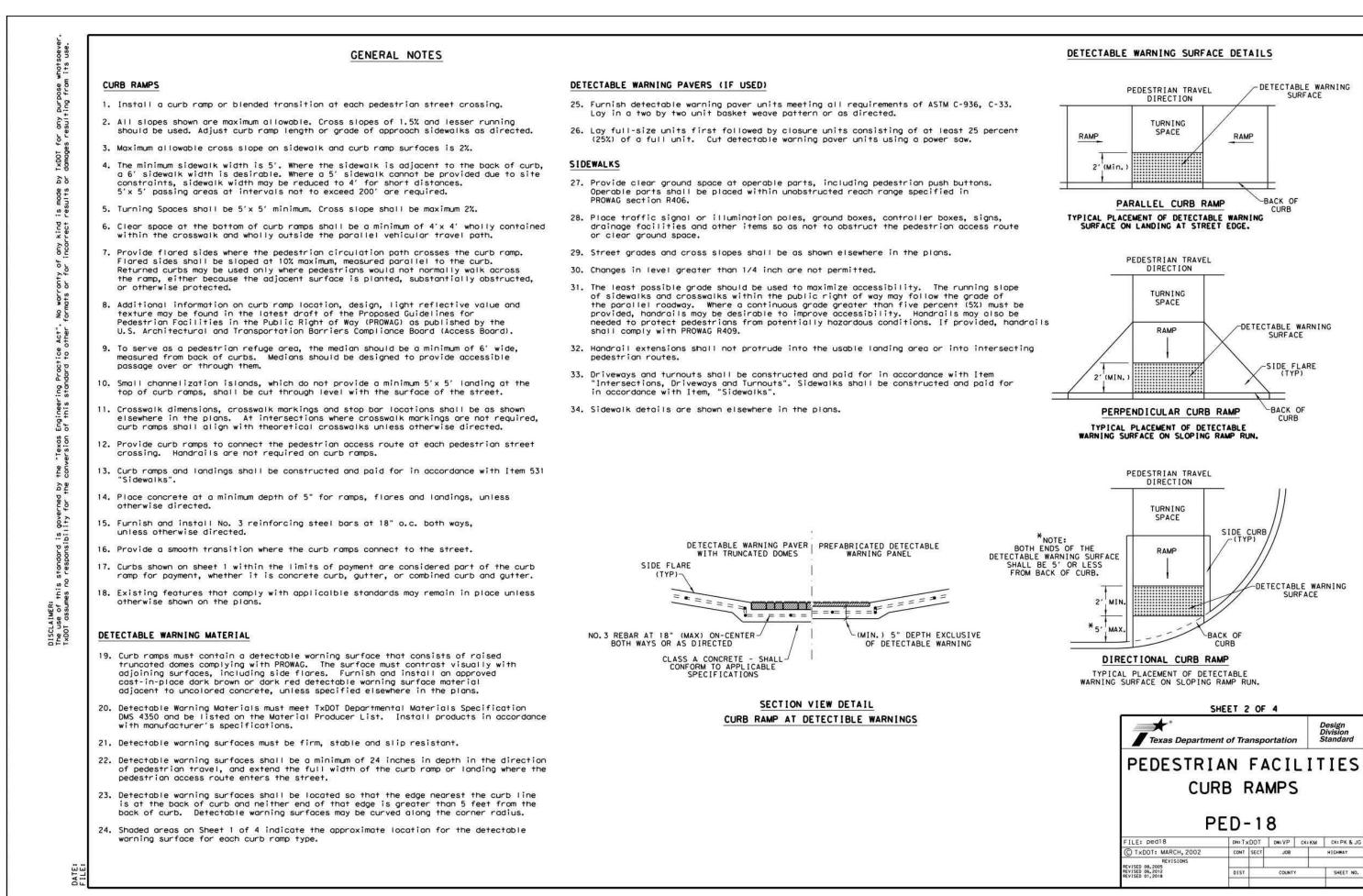
- 1. IF THE STREET SUBGRADE PLASTICITY INDEX VALUE IS GREATER THAN 20, SUBGRADE STABILIZATION IS NEEDED AS PER CITY OF SAN ANTONIO REQUIREMENTS.
- 2. IF THE SUBGRADE PLASTICITY INDEX VALUE IS 20 OR LESS. SUBGRADE STABILIZATION IS NOT NEEDED. THE SUBGRADE SHOULD BE MOISTURE CONDITIONED (COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT A MINIMUM MOISTURE CONTENT OF OPTIMUM PLUS 2 PERCENT (TEX114E)).
- 3. THE SUBGRADE SHOULD BE STABILIZED USING 8 PERCENT LIME TO A DEPTH OF 8 INCHES AS NOTED
- 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 46.0 LBS PER SQ YARD FOR 8 INCH DEPTH OF 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 2. 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.

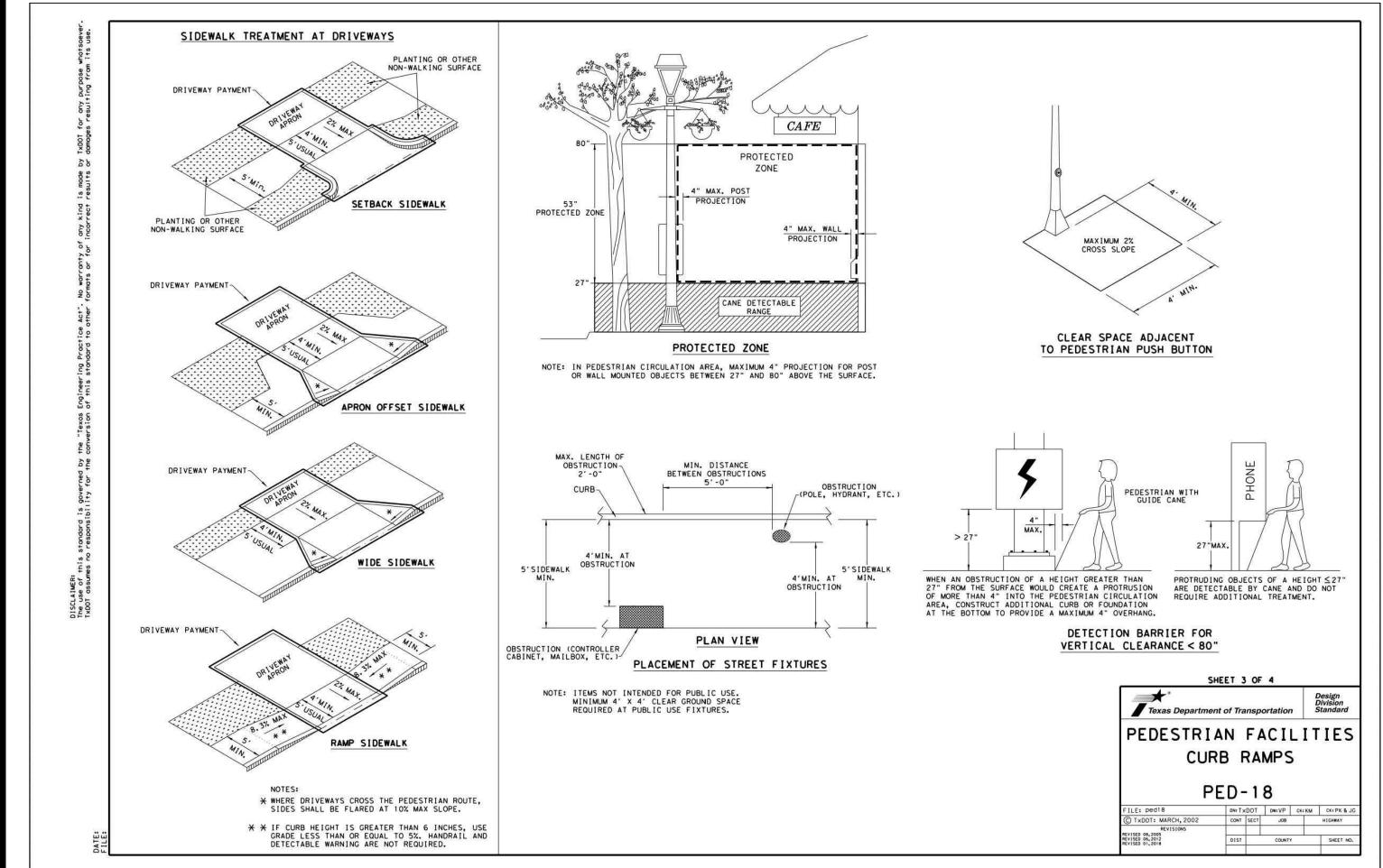
#### LIME NOTES:

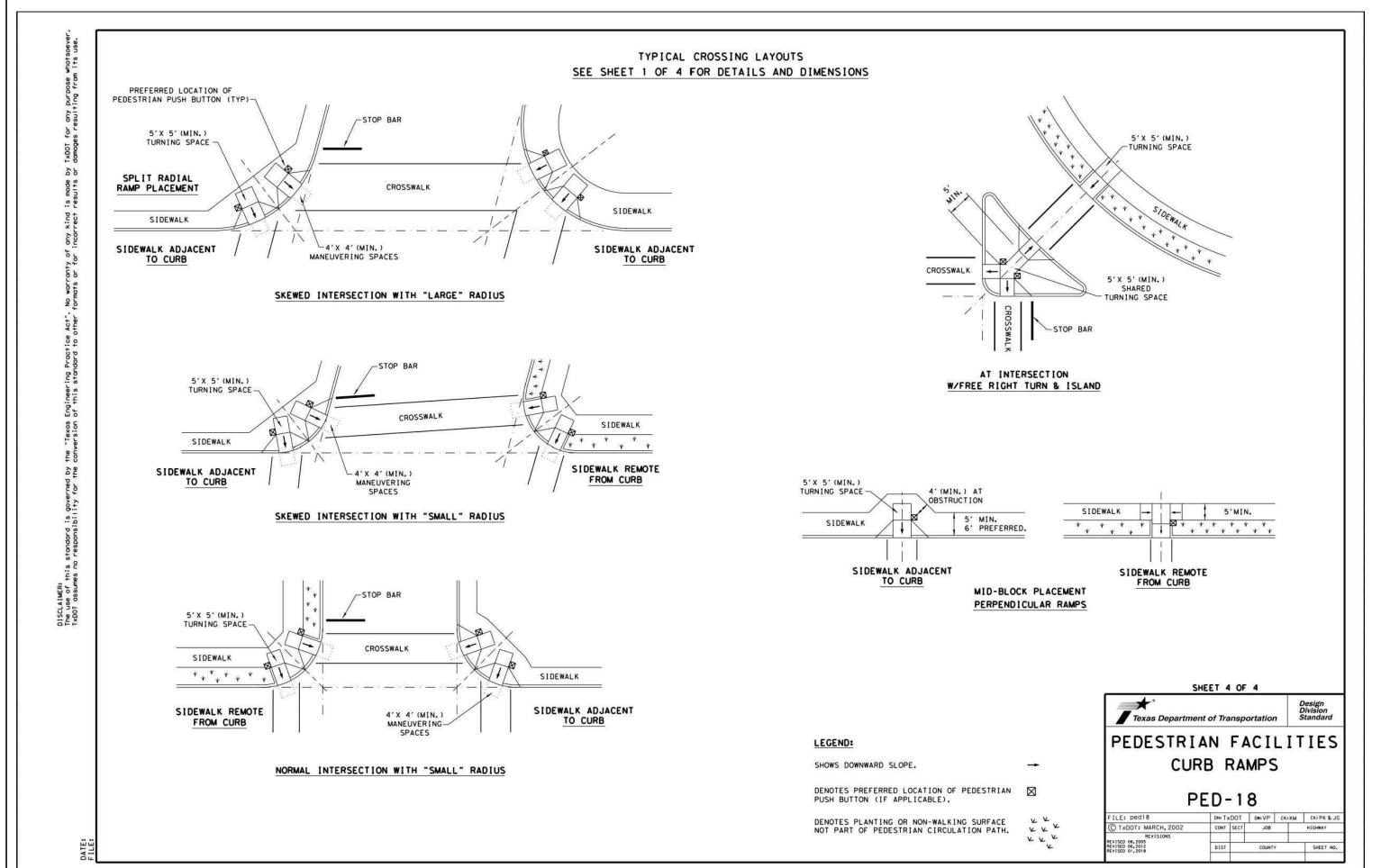
- FOR LIME STABILIZATION CONSTRUCTION VERIFICATION THE FOLLOWING SHALL BE CONDUCTED ON THE FIELD: 1. AFTER INITIAL MIXING THE SOIL-LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2-3) DAYS. MAINTAIN MOISTURE DURING MELLOWING.
- 2. AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE ₹ INCH SIEVE FROM THE SAMPLE): MINIMUM PASSING 1¾" SIEVE
- MINIMUM PASSING ¾ SIEVE MINIMUM PASSING NO. 4 SIEVE
- 3. SAMPLE SOIL-LIME MIXTURE FOR DETERMINATION OF MAXIMUM DRY DENSITY (MDD). IN THE LABORATORY, MOLD SPECIMENS TO 95% OF MDD AT OPTIMUM MOISTURE CONTENT AND VERIFY UCS TO BE AT LEAST 160 PSI IN ACCORDANCE WITH PROCEDURE OUTLINED IN THE BEXAR 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  $\pm 1.0$  INCH.

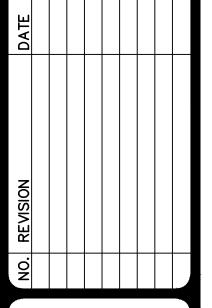
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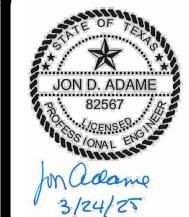












PAPE-DAWSON
ENGINEERS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.900

MONTGOMERY VILLAGE UNIT 1 (ENCLA)

PLAT NO.

JOB NO.

12638-14

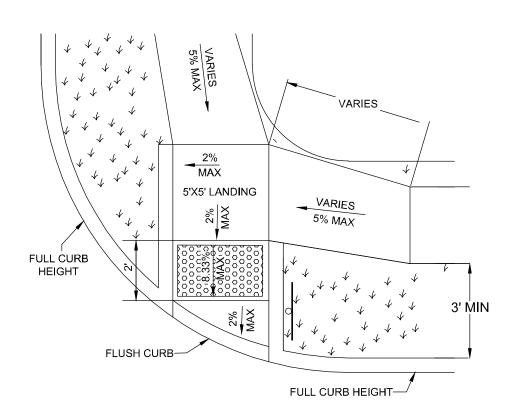
DATE MARCH 2025

DESIGNER PW

CHECKED VS DRAWN JV

SHEET <u>C2.11</u>

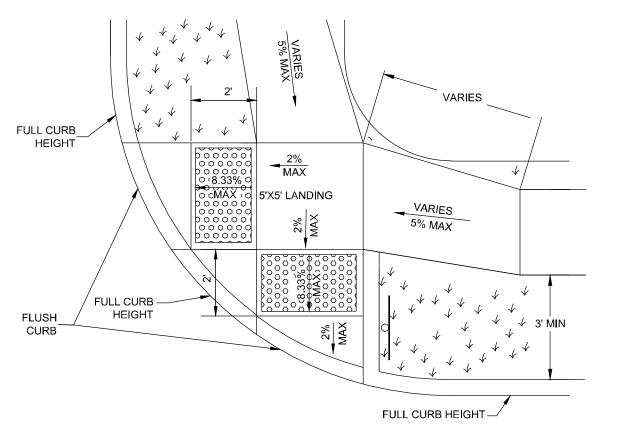
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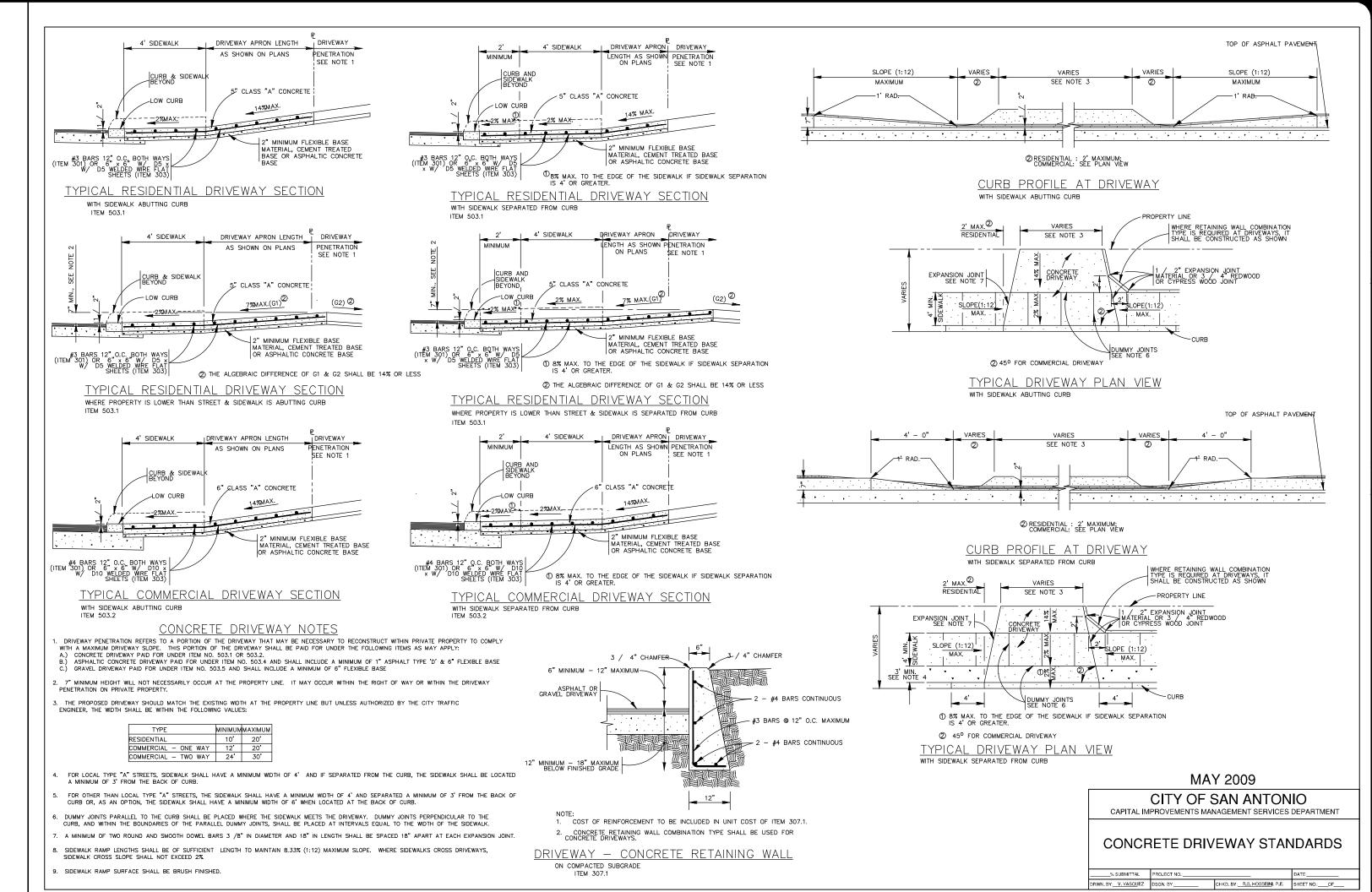
MODIFIED TYPE IV SIDEWALK RAMP

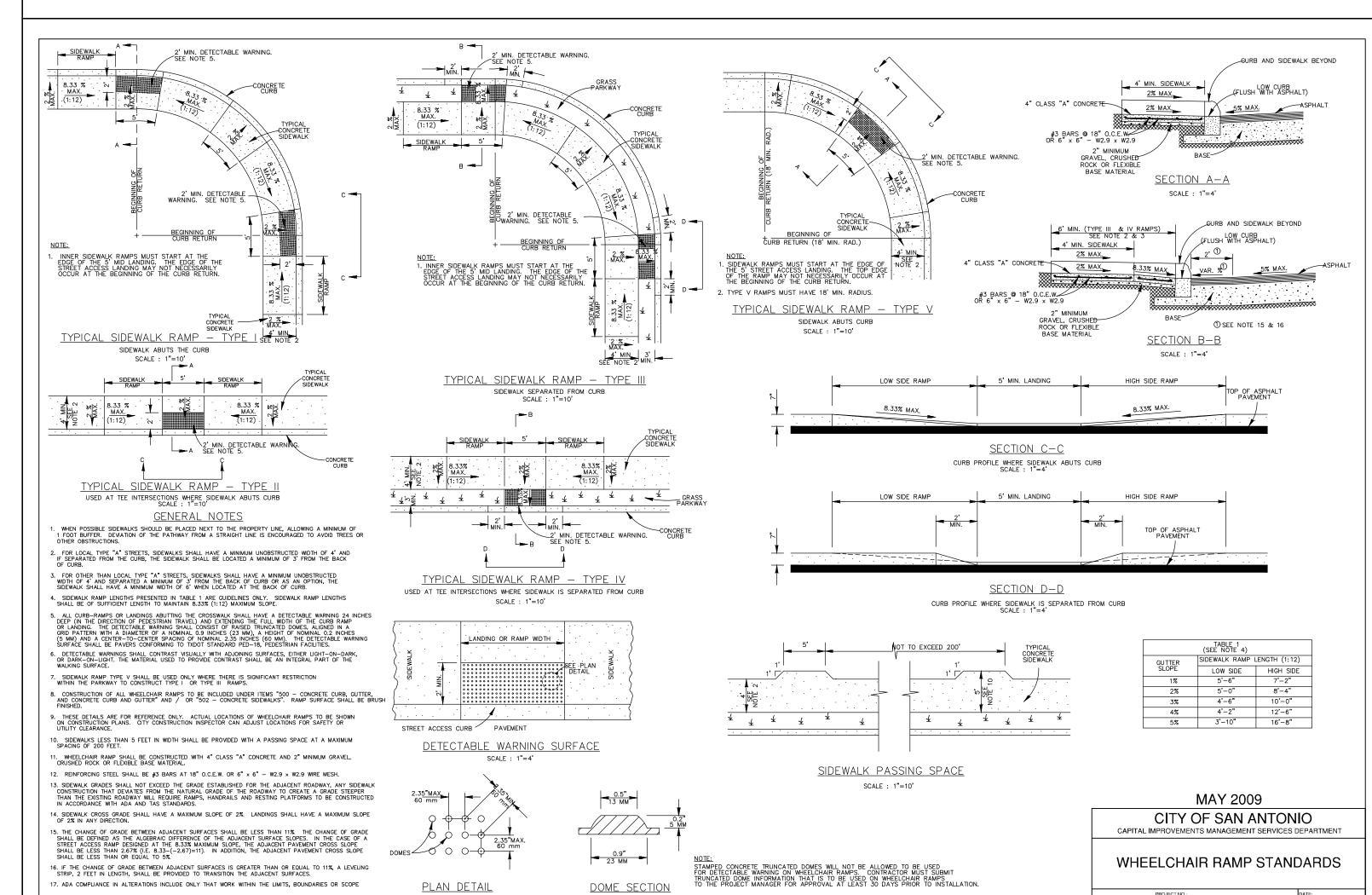
SIDEWALK SEPARATED FROM CURB

NOT-TO-SCALE



MODIFIED TYPE V SIDEWALK RAMP SIDEWALK SEPARATED FROM CURB NOT-TO-SCALE







JON D. ADAME

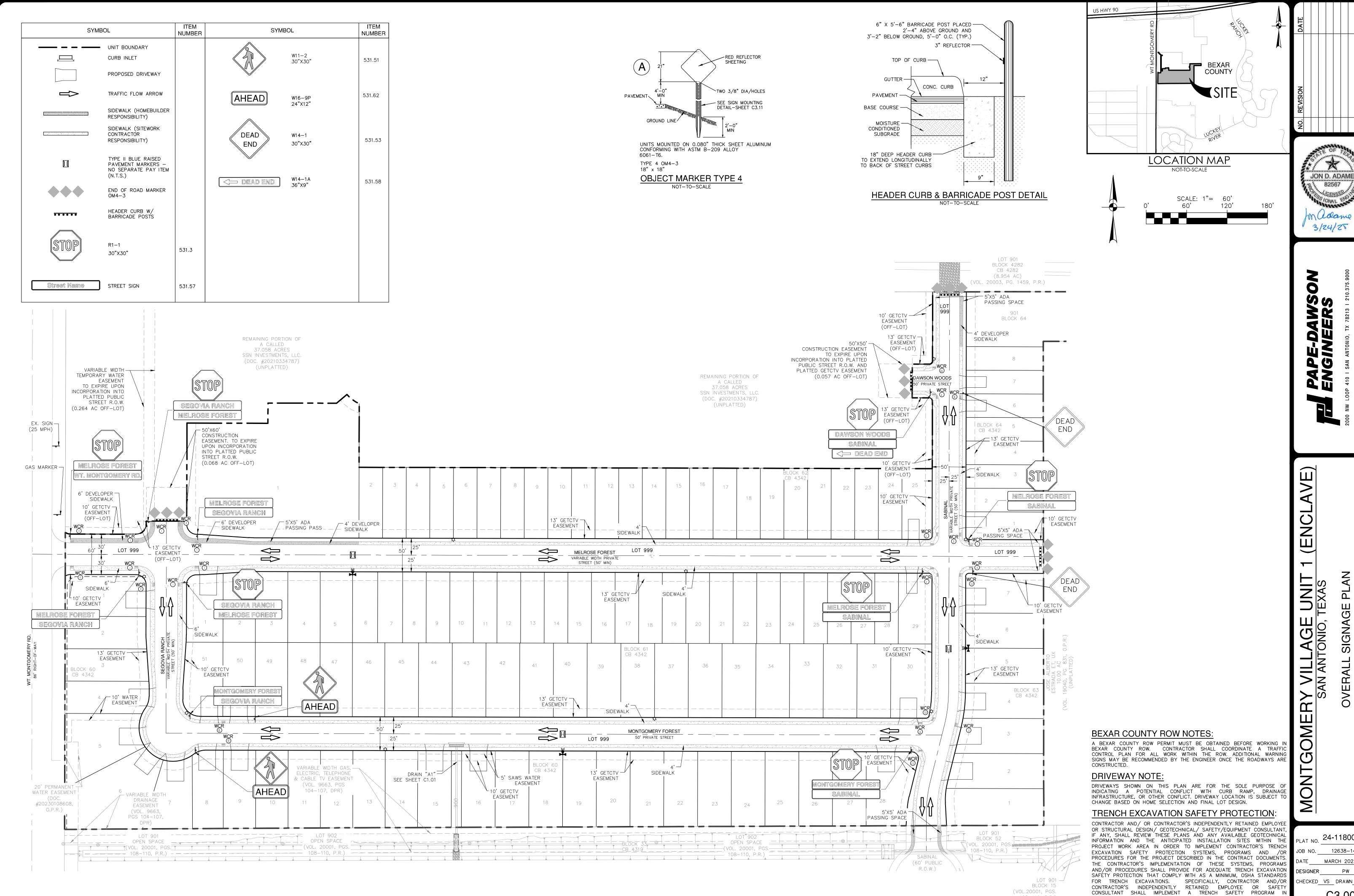
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<sub>- NO.</sub> 24-11800426 12638-14 MARCH 2025 DESIGNER CHECKED VS DRAWN JV C2.12

CHKD, BY: R.S. HOSSEINI, P.E. SHEET NO.:

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,CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service Agency.

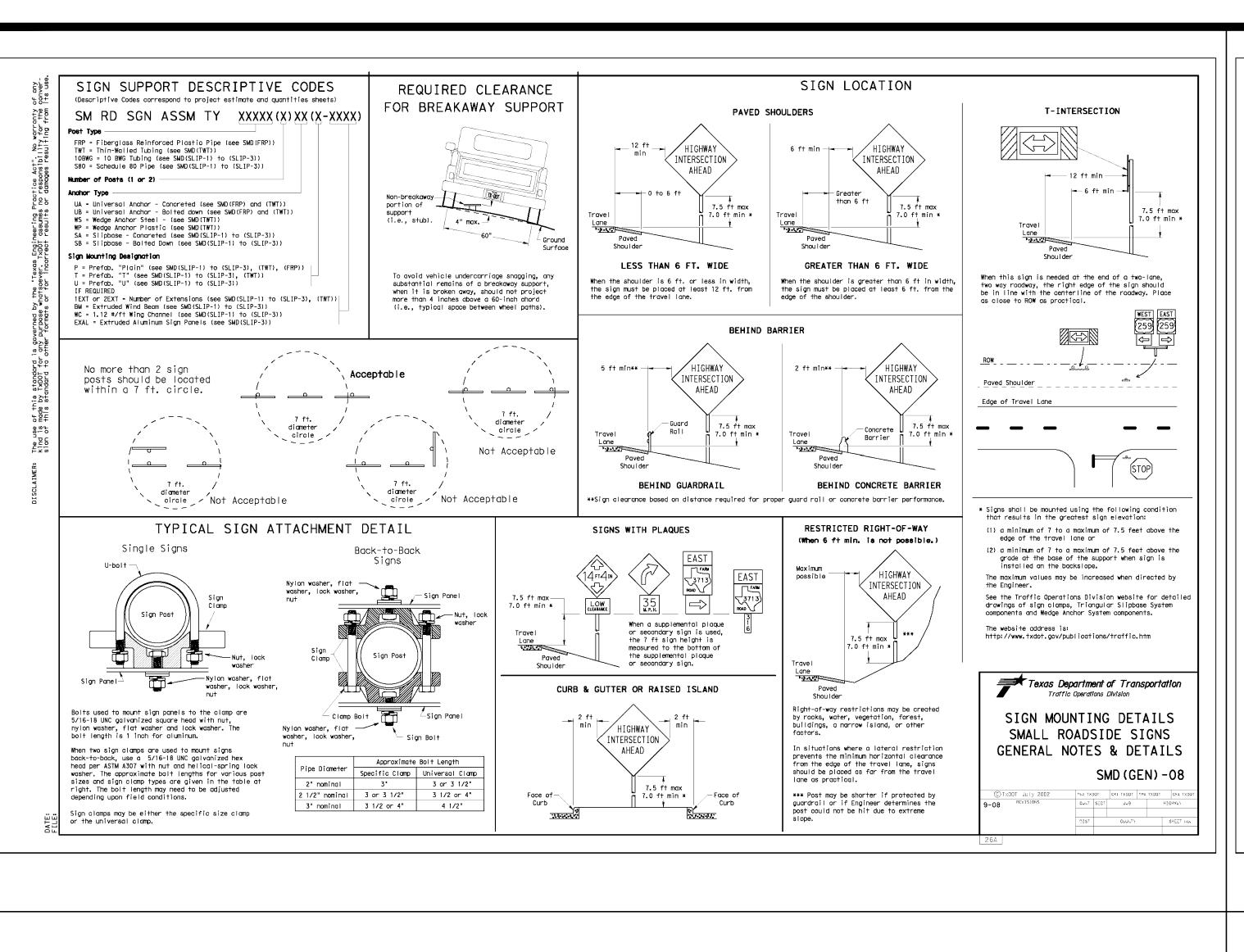


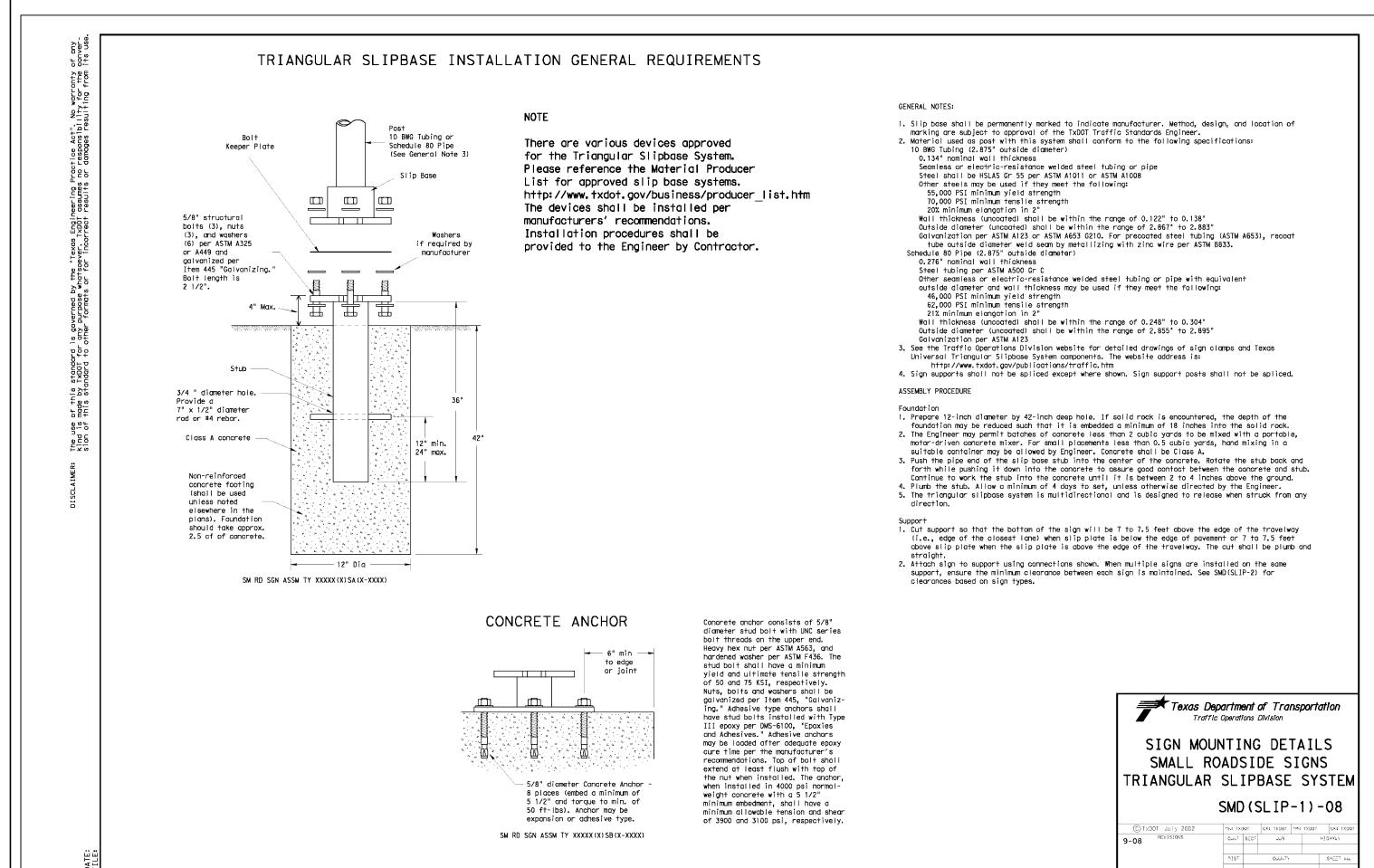
T<sub>PLAT NO.</sub> 24-11800426 JOB NO. 12638-14

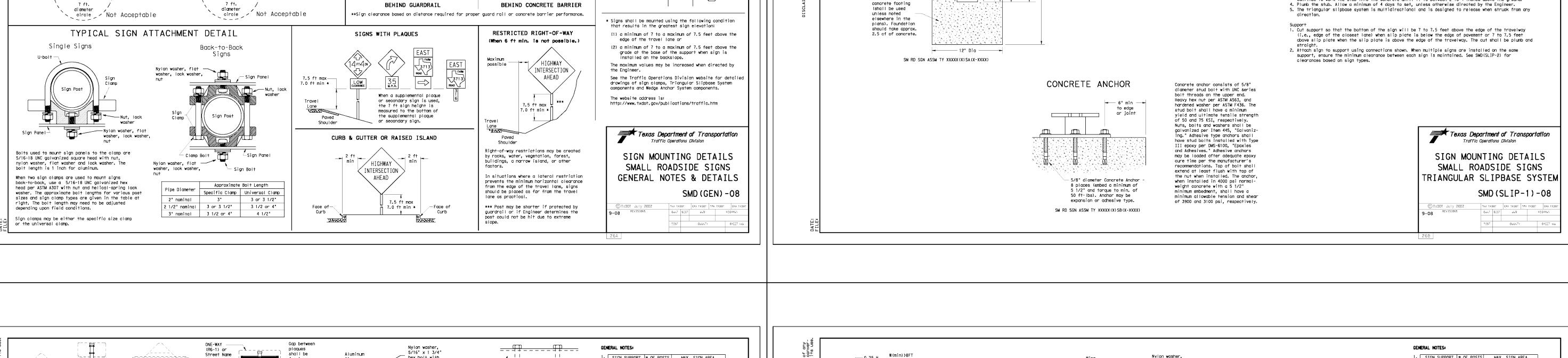
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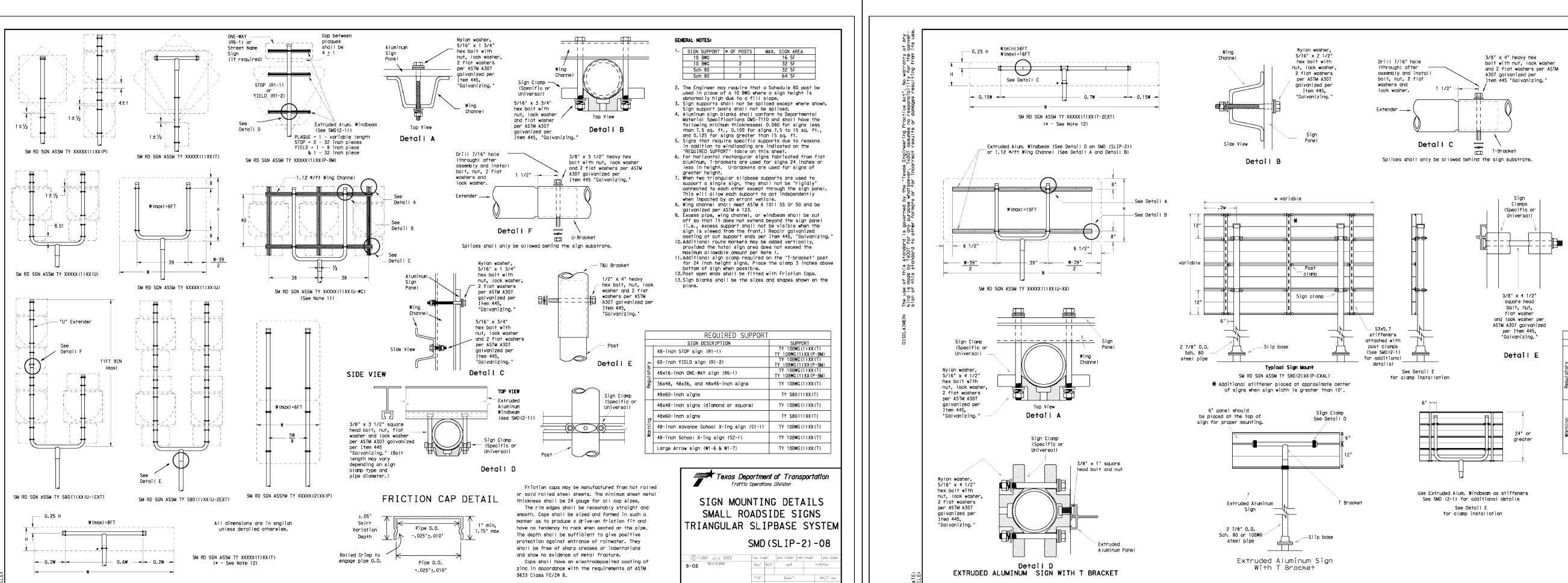
ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

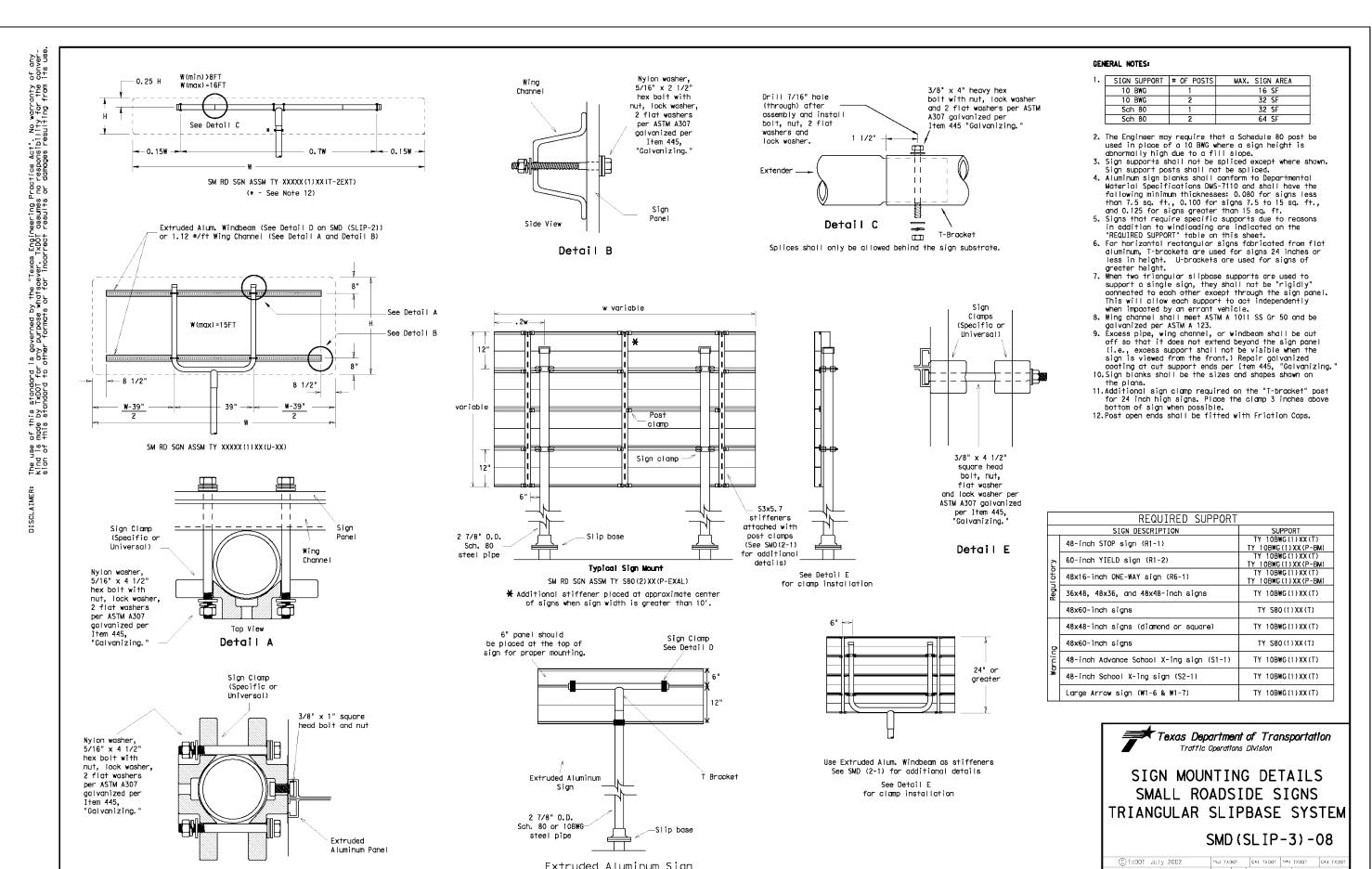
108-110, P.R.)











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JON D. ADAME

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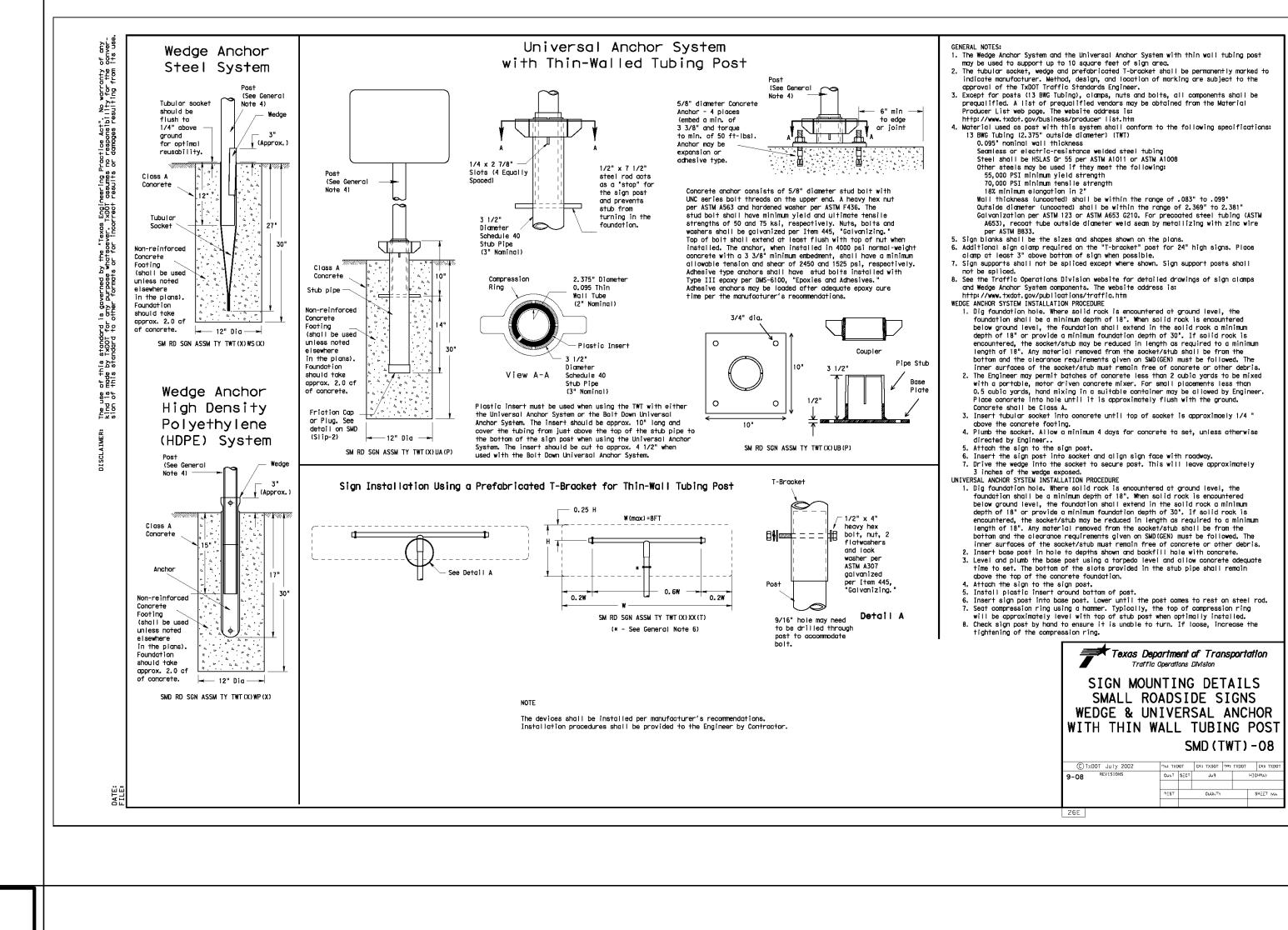
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3/24/25

24-1180042 12638-14 DESIGNER HECKED VS DRAWN J

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JON D. ADAME

Clolamo

3/24/25

12638-14 DESIGNER HECKED VS DRAWN J'

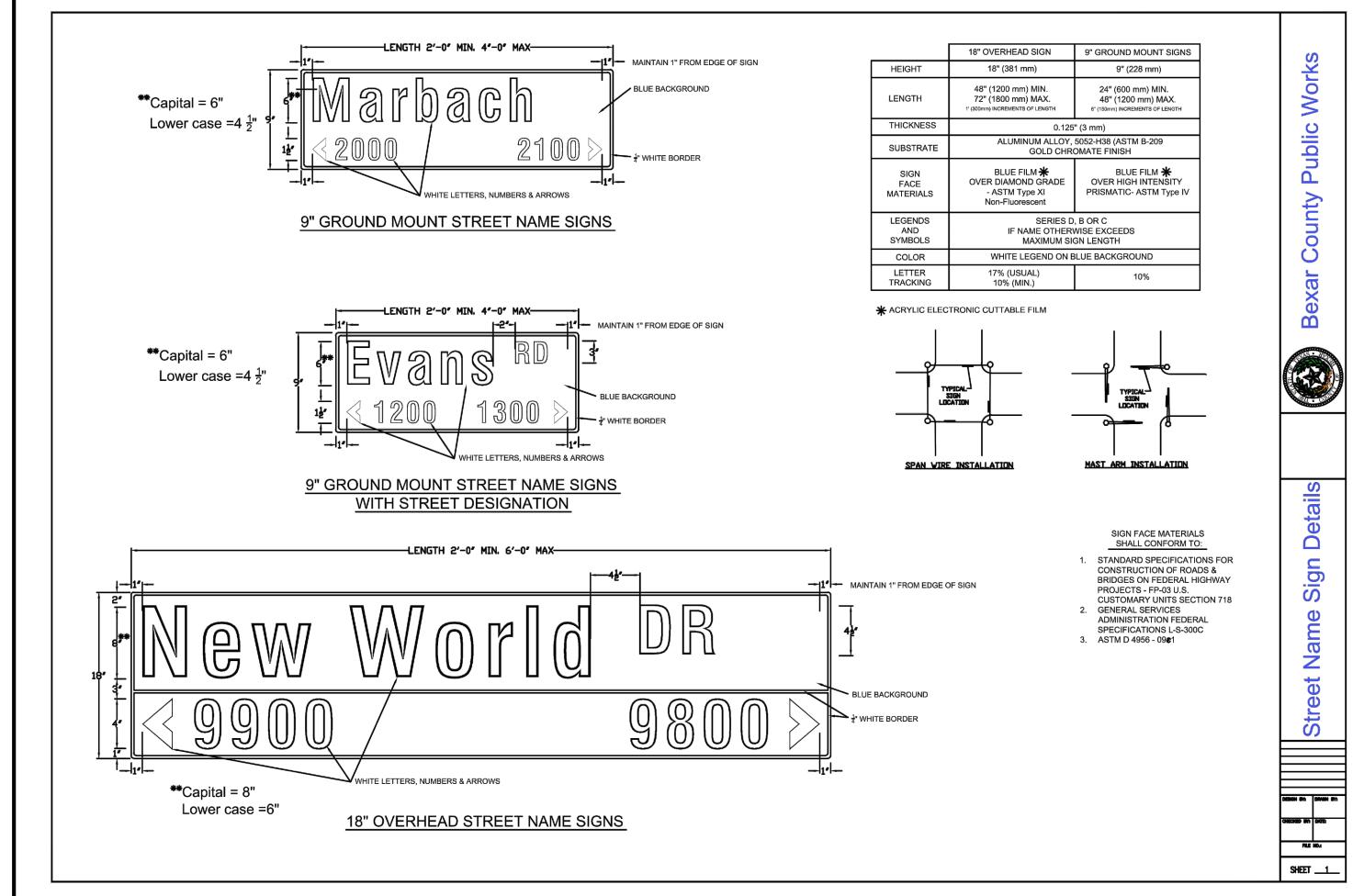
24-1180042

Universal Anchor System with Fiberglass Reinforced Plastic (FRP) Post 1. FRP sign supports for a single type sign support may be used for signs up to and including 16 square feet. Dual post installation may be used for signs up to and including 32 square feet.

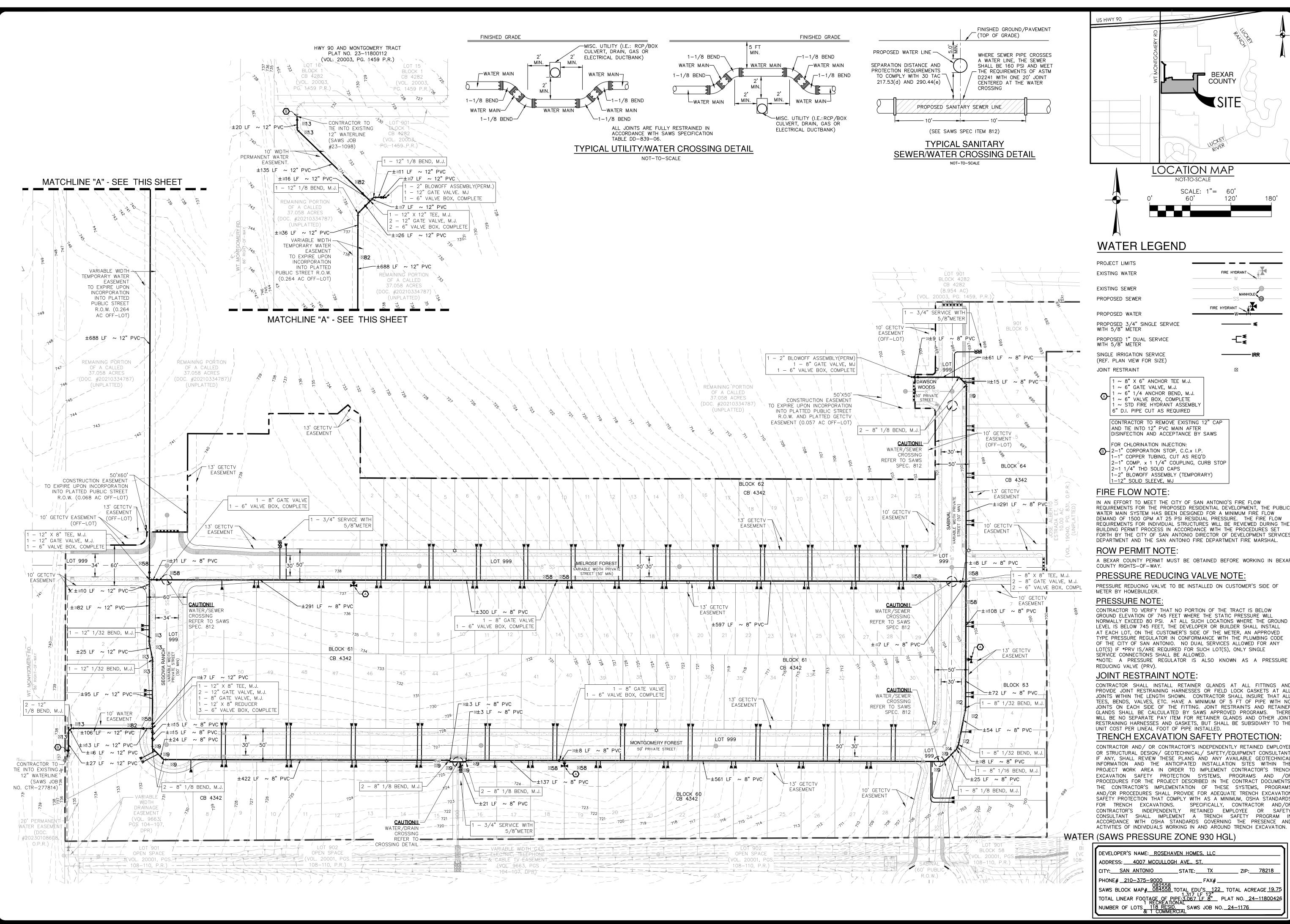
2. All nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." 3. See the Traffic Operations Division website for detailed drawings of sign http://www.txdot.gov/publications/traffic.htm FRP POST REQUIREMENTS 1. Materials shall conform to the requirements of Departmental Material Specification DMS-4410 and will be furnished in a yellow or gray color as specified elsewhere in the plans. Thickness of FRP sign support is 0.125" + 0.031", - 0.0". 3. FRP sign supports are prequalified by the Traffic Operations Division. resign supports are prequalified by the intric operation
Prequalification procedures are obtained by writing:
Texas Department of Transportation
Traffic Operations Division
125 East 11th Street (embed a min. of 3 3/8" and torque to min. of 50 ft-1bs). Anchor may be expansion - 1/4 x 2 7/8' 3" O.D. or adhesive type. Fiberglass Reinforced Austin, Texas 78701-2483 Concrete anchor consists of 5/8" diameter stud bolt with UNIVERSAL ANCHOR SYSTEM INSTALLATION PROCEDURES (FRP) Pipe UNC series bolt threads on the upper end. A heavy hex nut per ASTM A563 and hardened washer per ASTM F436. The 1. Dig foundation hole. Where solid rock is encountered at ground level, the stud bolt shall have minimum yield and ultimate tensile foundation shall be a minimum depth of 18". When solid rock is encountered strengths of 50 and 75 ksi, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." below ground level, the foundation shall extend in the solid rock a minimum depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the socket/stub may be reduced in length as required to a minimum length of 18°. Any material removed from the socket/stub shall be Top of bolt shall extend at least flush with top of nut when installed. The anchor, when installed in 4000 psi normal-weight concrete with a 3 3/8" minimum embedment, shall have a minimum from the bottom and the clearance requirements given on SMD(GEN) must be 3 1/2" Schedule 40 allowable tension and shear of 2450 and 1525 psi, respectively Adhesive type anchors shall have stud bolts installed with followed. The inner surfaces of the socket/stub must remain free of concrete or other debris. (3" Nominal) Type III epoxy per DMS-6100, "Epoxies and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure 2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor driven concrete mixer. For small placements 1/2 x 7 1/2" Steel Rod less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A.

3. Insert base post in foundation hale to depths shown and fill hole with time per the manufacturer's recommendations. Acts as a "stop" for the sign post and prevents stub from turning in Stub pipe the foundation. BOLT-DOWN DETAILS concrete. Cut base post from bottom and ensure a minimum of 18" embedment if installed in solid rock. Level and plumb the base post with coupler using a torpedo level and let concrete set a minimum of 4 days, unless otherwise directed by Engineer. Compression Ring Non-reinforced Concrete Footing Bottom of base post slots shall be above the concrete footing. (shall be used unless noted . Attach sign to FRP post. 6. Insert sign post into base post. Lower until the post comes to rest on the elsewhere in the (FRP) Pipe 7. Use hammer to ensure the coupler is firmly seated. Top of coupler should be should take approx level with top of base post in most instances. 8. Check sign to ensure there is no twist. If loose, increase the tightening of BOLT DOWN SIGN SUPPORT . Position base plate with coupler on existing concrete. or Plug. See Stub Pipe 2. Drill holes into concrete and insert the 5/8" diameter bolts with wedge anchors, and tighten nuts.

3. Attach sign to FRP post. View A-A -- 12 Dia -----4. Insert bottom of sign post into pipe stub.5. Use hammer to ensure the coupler is firmly seated. Top of coupler should be SM RD SGN ASSM TY FRP(X)UA(P) SM RD SGN ASSM TY FRP(X)UB(P) level with top of base post in most instances. 6. Check sign to ensure there is no twist. If loose, increase the tightening of Typical Sign Mounting Detail Typical Sign Mounting Detail for FRP Support with Back-to-Back Signs for FRP Support with Single Sign Plastic or nylon washer, Plastic or nylon washer, Sign Clamp (Specific or (Specific or **Texas** Department of Transportation SIGN MOUNTING DETAILS support and SMALL ROADSIDE SIGNS UNIVERSAL ANCHOR SYSTEM WITH FRP POST .080" Aluminum Sian -5/16 x 4" Hex Bol-5/16 x 4 1/2" Hex Bolt Nylon Washer Flat washer, Flat washer. lock washer and nut



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BEXAR COUNTY LOCATION MAP NOT-TO-SCALE JON D. ADAME SCALE: 1"= 60' 82567 60'

m aldamo 3/24/25

FIRE HYDRANT ... MANHOL FIRE HYDRANT >

 $1 \sim 8$ " X 6" ANCHOR TEE M.J.  $1 \sim 6$ " 1/4 ANCHOR BEND, M.J. A 1 ~ 6" VALVE BOX, COMPLETE 1 ~ STD FIRE HYDRANT ASSEMBL

CONTRACTOR TO REMOVE EXISTING 12" CAP AND TIE INTO 12" PVC MAIN AFTER DISINFECTION AND ACCEPTANCE BY SAWS FOR CHIORINATION INJECTION: 2-1" CORPORATION STOP, C.C.x I.P. I-1" COPPER TUBING, CUT AS REQ'D 2-1" COMP. x 1 1/4" COUPLING, CURB STOP 1-2" BLOWOFF ASSEMBLY (TEMPORARY)

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 1500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING TH 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.

PRESSURE REDUCING VALVE NOTE:

PRESSURE REDUCING VALVE TO BE INSTALLED ON CUSTOMER'S SIDE OF

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 745 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 745 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

#### **JOINT RESTRAINT NOTE:**

CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AN 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 N 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 TH

#### TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND / OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE 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 TRENC EXCAVATION SAFETY PROTECTION SYSTEMS. PROGRAMS AND / 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 ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AN ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

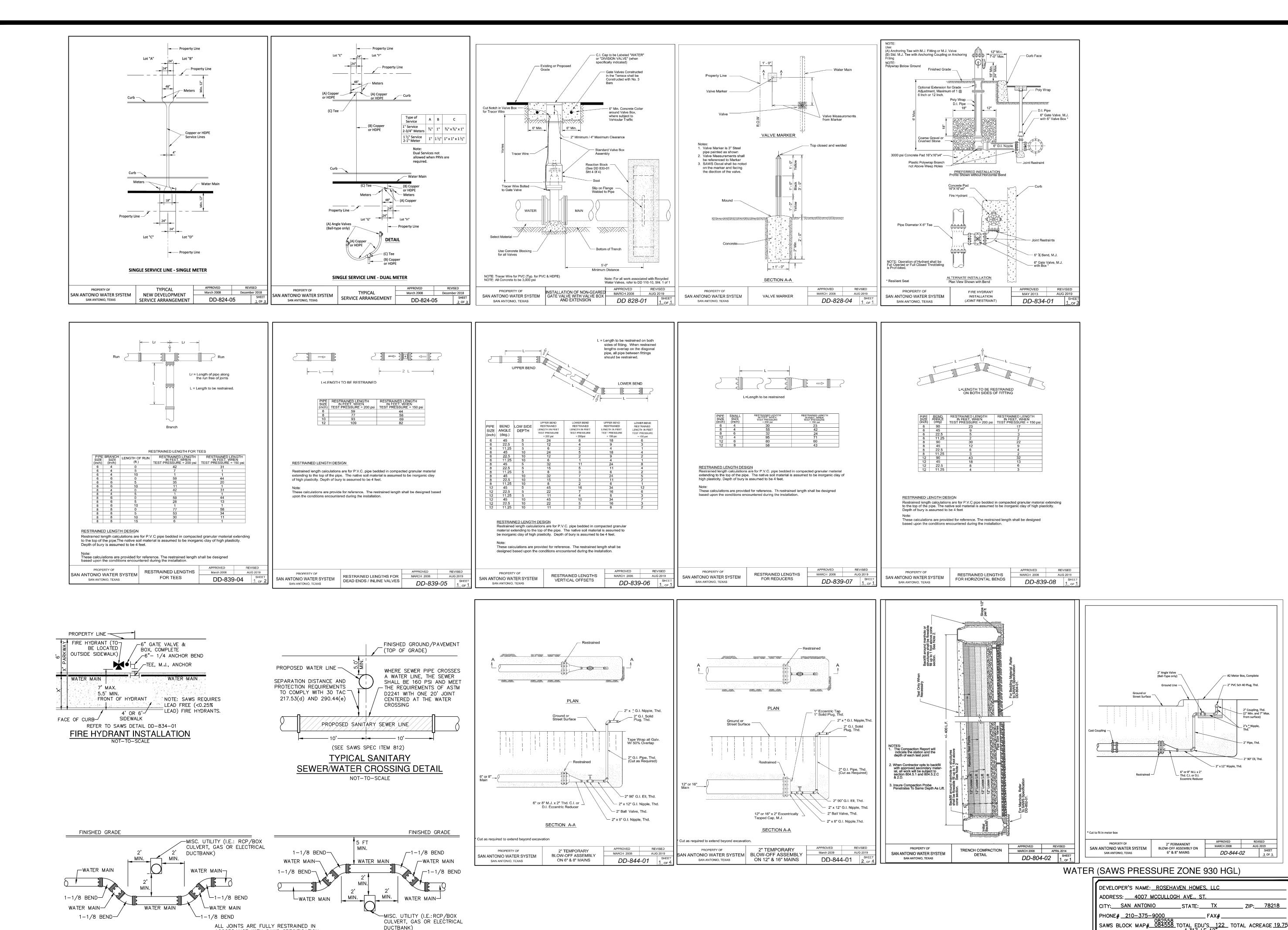
DEVELOPER'S NAME: ROSEHAVEN HOMES, LLC ADDRESS: 4007 MCCULLOGH AVE., ST. \_\_\_\_STATE:\_\_\_TX\_

SAWS BLOCK MAP# 084558 TOTAL EDU'S 122 TOTAL ACREAGE 19.75 TOTAL LINEAR FOOTAGE OF PIPE: 3.067 LF 8" PLAT NO. 24-11800426 NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1176

T NO. 24-11800426 12638-14 MARCH 2025 DESIGNER PW HECKED VS DRAWN AG

RIB

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(ENCI OME

#2 Meter Box, Complete

- 2" PVC Sch 40 Plug, Thd.

\_\_\_ 2" x 12" Nipple, Thd.

MARCH 2008 AUG 2019

\_\_ ZIP:\_\_\_\_78218\_

DD-844-02

2" PERMANENT

BLOW-OFF ASSEMBLY ON

6" & 8" MAINS

TOTAL LINEAR FOOTAGE OF PIPE: 3.067 LF 8" PLAT NO. 24-11800426

NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1176

2" Coupling, Thd. — (2" Min. and 7" Max from surface)

2"x \* Nipple,

JON D. ADAME

n aldame 3/24/25

24-11800426 12638-14 MARCH 2025

DESIGNER CHECKED\_VS\_DRAWN\_J'

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DUCTBANK)

ACCORDANCE WITH SAWS SPECIFICATION

TYPICAL UTILITY/WATER CROSSING DETAIL NOT-TO-SCALE

TABLE DD-839-06.

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#### SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)

#### S GENERAL SECTION

- MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS FRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND PLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE OWING AS APPLICABLE:
- 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.
- CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE" CURRENT 'SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION". CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC
- WORKS CONSTRUCTION". CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"
- CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL STRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK JIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED NTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND ACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS SITE, HTTP://WWW.SAWS.ORG/BUSINESS\_CENTER/SPECS. UNLESS OTHERWISE D WITHIN THE DESIGN PLANS.
- CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION D) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY ECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO INNING ANY WORK.
- ATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND HS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO STRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE TY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM NG CONSTRUCTION AT NO COST TO SAWS.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION THER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR NTES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE OWING 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
- COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, 3S, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS INAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE JECT'S CONSTRUCTION.
- WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR NTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE STRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
- CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER ERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR OD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
  - DAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT STWORKREQ@SAWS.ORG.
- KEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION STRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK JEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
- AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND ROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.
- PACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR ING THE COMPÀCTION RÉQUIREMENTS ON ALL TRENCH BACKFILL AND FOR NG FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL OONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY IDING ALL NECESSARY DOCUMENTED TEST RESULTS.
- DPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION ECTION DIVISION.

#### **SAWS WATER NOTES**

- 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 | 3. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, AS ACCORDINGLY.
  - FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014
- 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".
- 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. (NSPI)
- 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 745 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 745 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
- PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR (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.
- FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE | 14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS. 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 B 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

MACHINE CHLORINATION BY THE S.A.W.S.

PROVIDED FOR IN THE SPECIAL CONDITIONS.

- ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
- 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 I 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.
- THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
- 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.
- 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.
- O. 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.
- . 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).
- . 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.
- 15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

JON D. ADAME 82567

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MOM

DESIGNER

\_ ZIP:<u>78218</u>

WATER (SAWS PRESSURE ZONE 930 HGL) DEVELOPER'S NAME: ROSEHAVEN HOMES, LLC

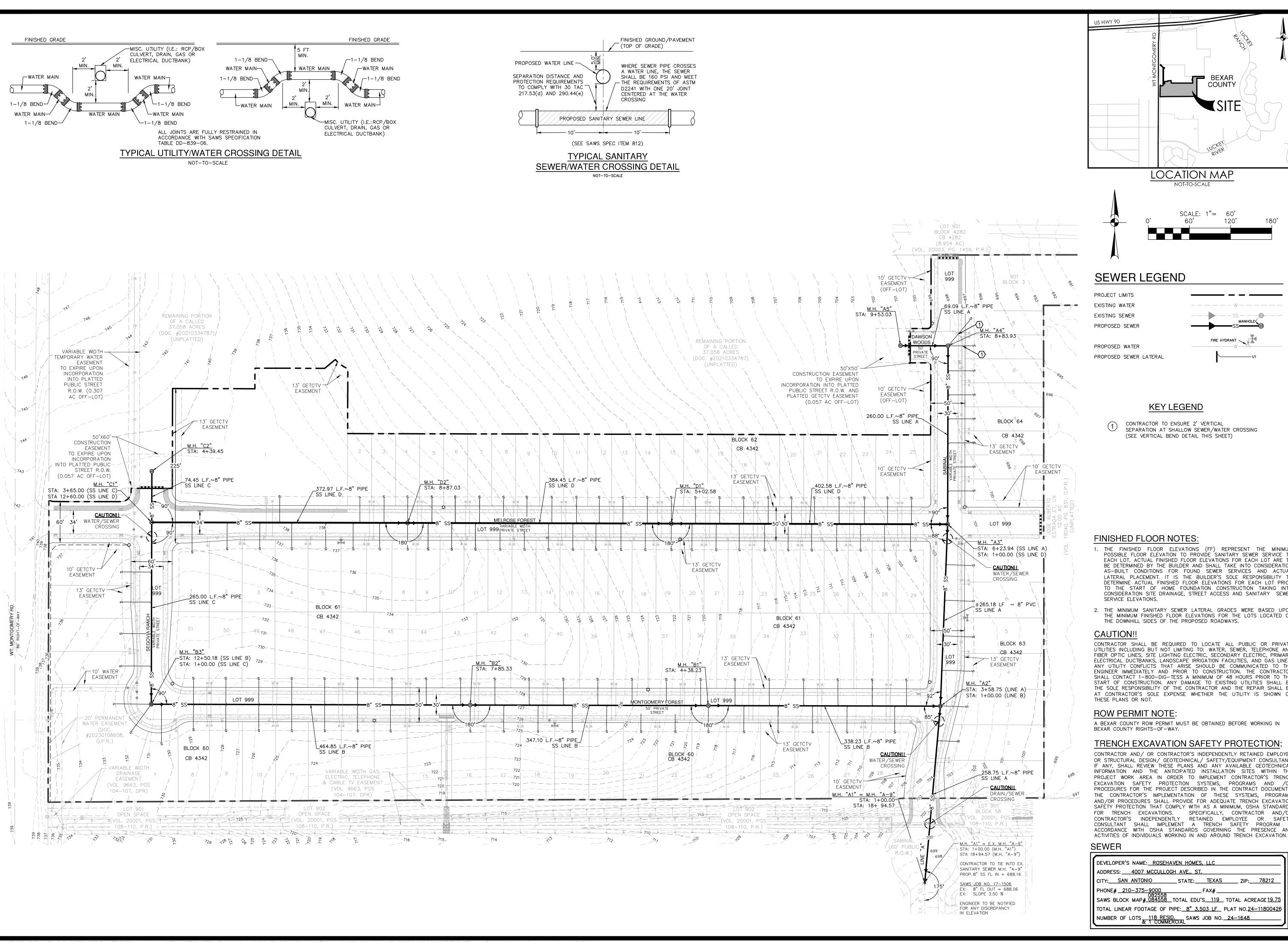
> ADDRESS: 4007 MCCULLOGH AVE., ST. CITY: SAN ANTONIO PHONE# <u>210-375-9000</u>

SAWS BLOCK MAP# 084558 TOTAL EDU'S 122 TOTAL ACREAGE 19.75 TOTAL LINEAR FOOTAGE OF PIPE: 3.067 LF 8" PLAT NO. 24-11800426 NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1176

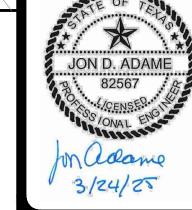
CHECKED VS DRAWN AG

24-11800426

12638-14



COUNTY



FIRE HYDRANT

CONTRACTOR TO ENSURE 2' VERTICAL SEPARATION AT SHALLOW SEWER/WATER CROSSING

1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE T BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT CONDITIONS FOR FOUND SEWER SERVICES AND ACTUA LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER

2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPO THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON

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 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 E THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN O

A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN

#### TRENCH EXCAVATION SAFETY PROTECTION:

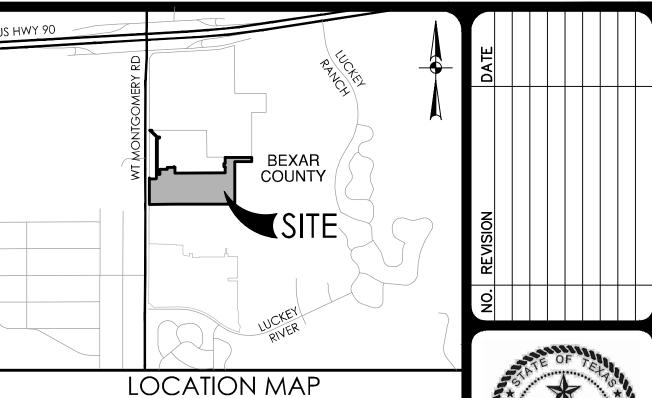
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /O 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/OF CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM I ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND

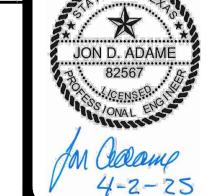
ADDRESS	::	4007 MCCULL	OGH A	/E., ST.				
CITY:	SAN	ANTONIO	ST.	ATE:	TEXAS	Z	ZIP:	78212
PHONE#_	210	<u> -375-9000</u>		F	- AX#			
SAWS BL	OCK	082558 MAP <u># 084558</u>	тота	L EDU'S	119	TOTAL	ACRE	AGE <u>19.75</u>
ΤΟΤΔΙ ΙΙΙ	NFAR	FOOTAGE OF	PIPF.	8" 3.50	03 IF	PI AT N	0 24-	11800426

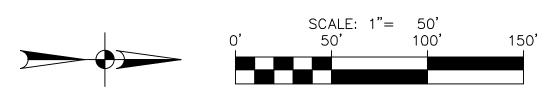
OTAL LINEAR FOOTAGE OF PIPE:<u>8" 3,503 LF</u> PLAT NO.<u>24-1150</u> NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1648

, LAT NO. 24-11800426 12638-14 MARCH 2025 DESIGNER CHECKED VS DRAWN AG C5.00

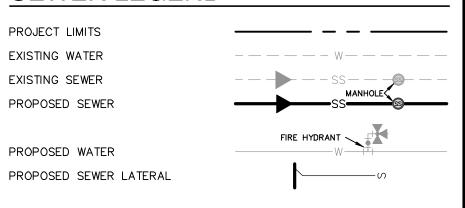
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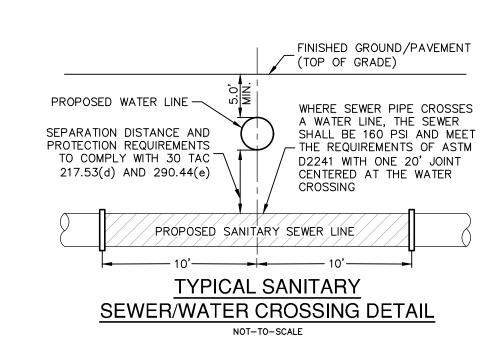




#### SEWER LEGEND



NOT-TO-SCALE



#### CAUTION!!

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DEVELOPER'S NAME: ROSEHAVEN HOMES, LLC
ADDRESS: 4007 MCCULLOGH AVE., ST.
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78212
PHONE# <u>210-375-9000</u> FAX#
082558 SAWS BLOCK MAP# <u>084558</u> TOTAL EDU'S <u>119</u> TOTAL ACREAGE <u>19.75</u>
TOTAL LINEAR FOOTAGE OF PIPE: <u>8" 3.503 LF</u> PLAT NO. <u>24-11800426</u>

NO. 24-11800426 12638-14 DESIGNER CHECKED VS DRAWN AG

HIS 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,CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service Agency.

NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1648

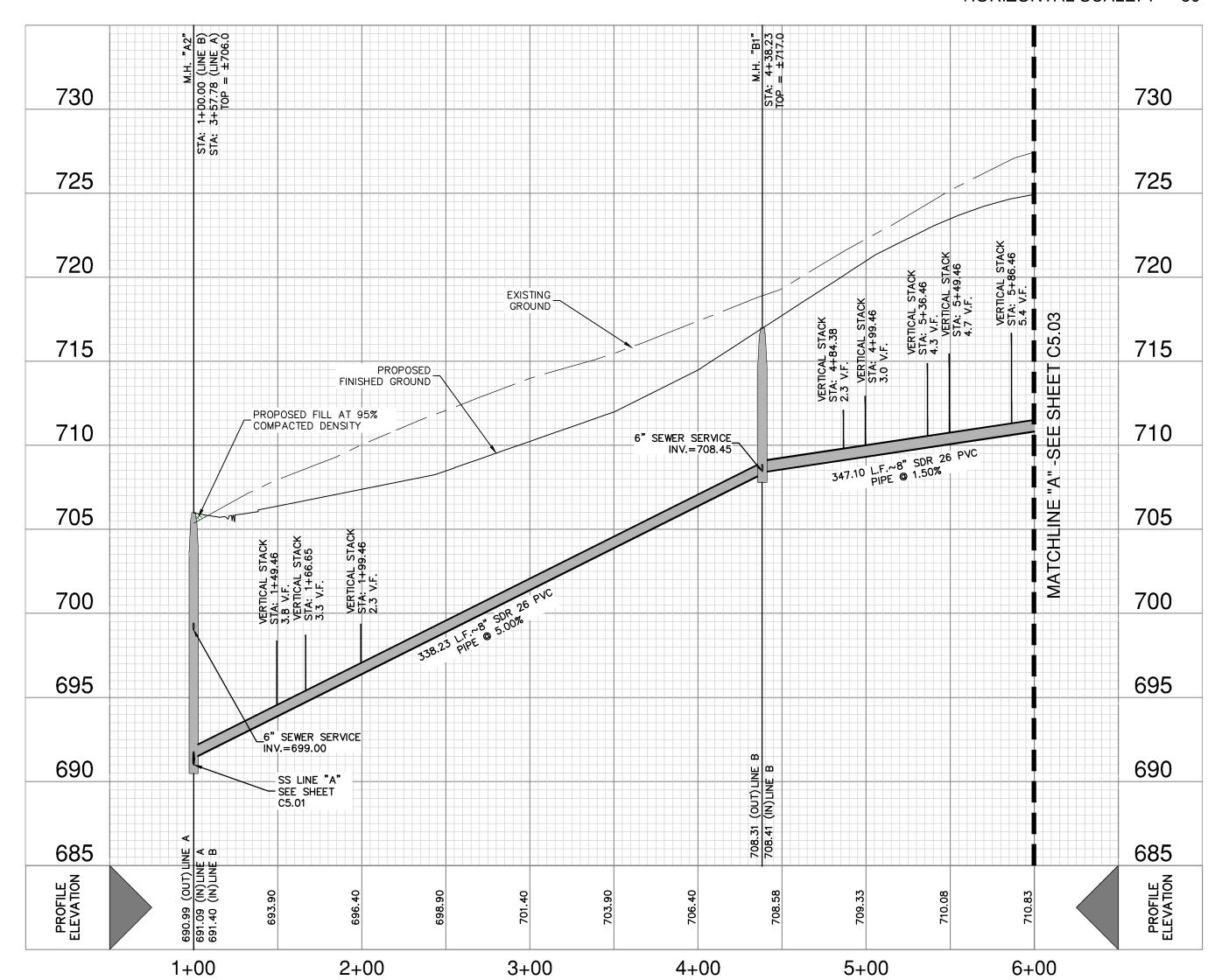
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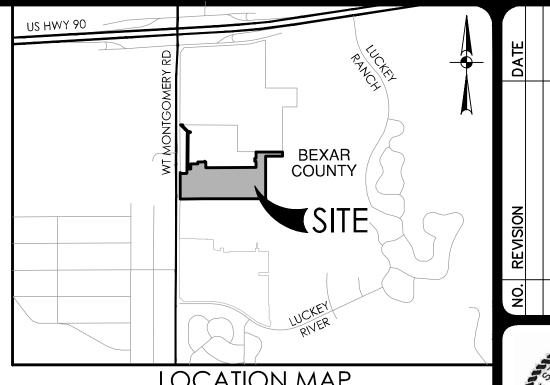
CB 4342 338.23 Ĺ.F.~8" PIPE∠ M.H. "A2" STA: 1+00.00 (LINE B) STA: 3+57.78 (LINE A) MONTGOMERY JOSE ALBERTO ESTRADA ET, L 10.00 AĆ (VOL. 19040, PG. 831, O.P.R.) (UNPLATTED) STA: 4+49 35 L.F. OF 6" LAT 2+49 .F. OF LAT 4+99 F. OF LAT 5+49 -.F. OF LAT 3+99 .F. OF LAT CB 4342 BLOCK 63 347.10 L.F.~8" PIPE\_ SS LINE B

> SANITARY SEWER LINE B STA. 1+00.00 TO 6+00.00

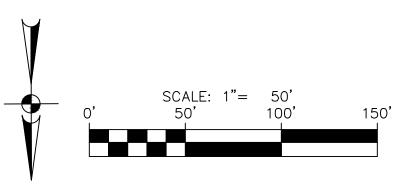
் BLOCK 61 CB 4342

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

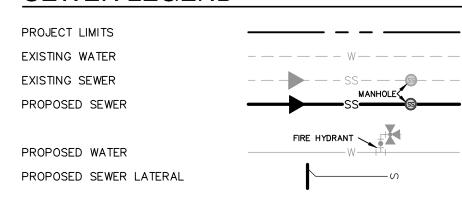


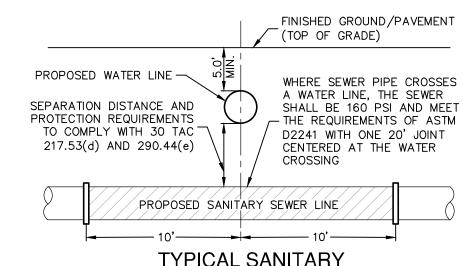






#### SEWER LEGEND





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

#### CAUTION!!

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CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM I ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AN ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. SEWER

AVEN HOMES, LLC	
GH AVE., ST.	
STATE:TEXAS	ZIP: <u>78212</u>
FAX#	
_TOTAL EDU'S <u>119</u> TO	TAL ACREAGE 19.75
PIPE: <u>8" 3,503 LF</u> PLA	AT NO. <u>24-11800426</u>
D. SAWS JOB NO. 24	4–1648
_	CH AVE., ST.  STATE: TEXAS  FAX#  TOTAL EDU'S 119 TO

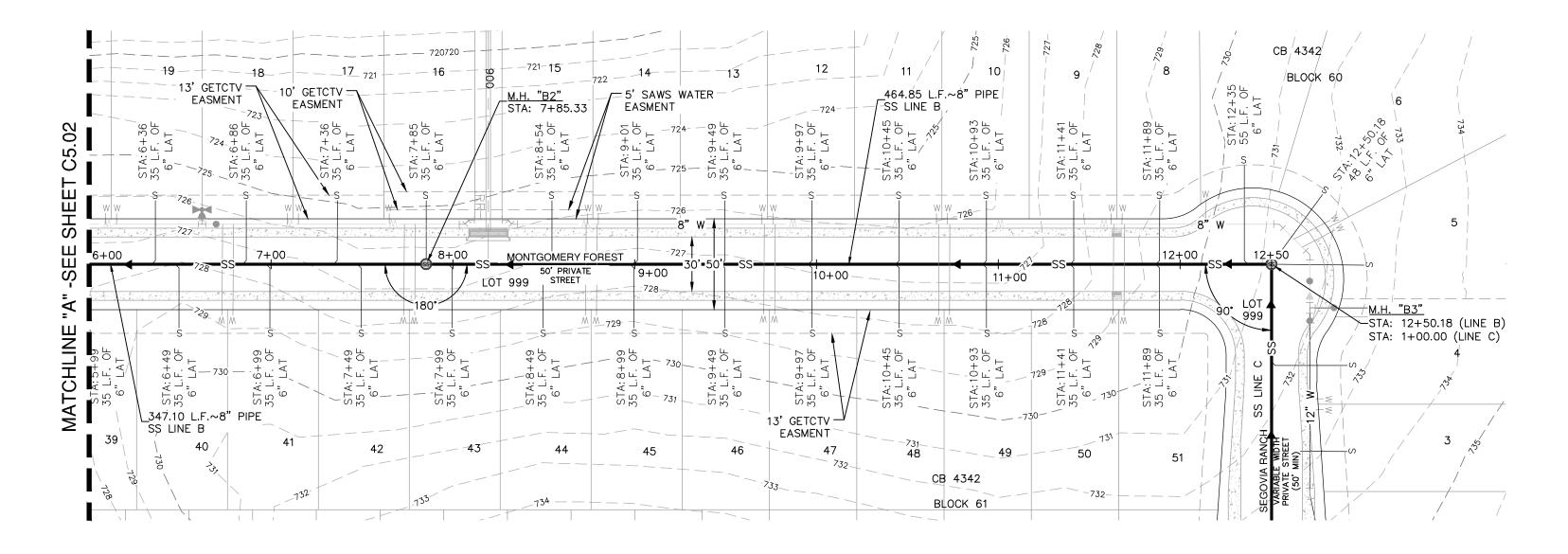
¶<sub>PLAT NO.</sub> 24-1180042€ 12638-14 DESIGNER

JON D. ADAME

4-2-25

CHECKED\_VS\_DRAWN\_AG

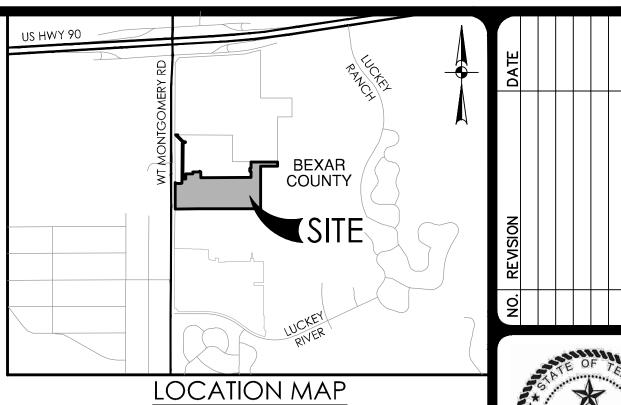
NOT-TO-SCALE

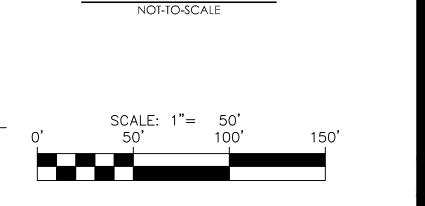


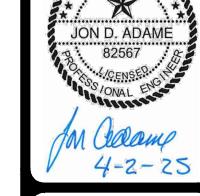
745 745 740 740 735 735 PROPOSED FILL AT 95% PROPOSED \* COMPACTED DENSITY FINISHED GROUND 730 730 **EXISTING** GROUND 6" SEWER SERVICE 725 725 INV.=723.80

SANITARY SEWER LINE B

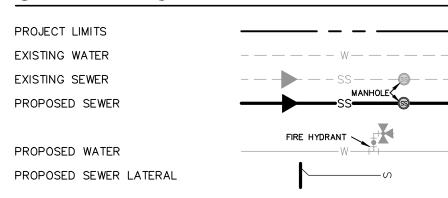
STA. 6+00.00 TO END

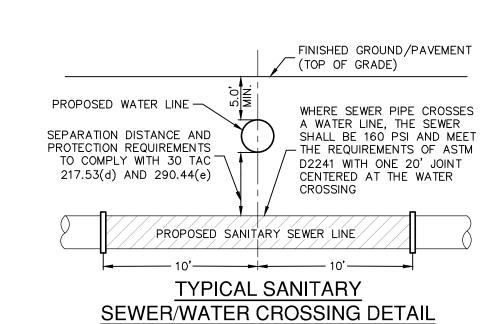






#### SEWER LEGEND





## CAUTION!!

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SEWER

DEVELOPER'S NAME: <u>ROSEHA</u>	<u>AVEN HOMES</u>	, LLC		
ADDRESS: 4007 MCCULLO	GH AVE., ST.	·		
CITY: SAN ANTONIO	STATE:	TEXAS	ZIP:	78212
PHONE# <u>210-375-9000</u> 082558 SAWS BLOCK MAP <u># 084558</u>		FAX#		
SAWS BLOCK MAP# <u>Ŏ84558</u>	_TOTAL EDU'	S <u>119</u> TO	TAL ACRE	EAGE <u>19.75</u>
TOTAL LINEAR FOOTAGE OF F	PIPE: <u>8"3.5</u>	<u>03 LF</u> PLA	T NO. <u>24-</u>	<u>-11800426</u>

T NO. 24-11800426 12638-14 DESIGNER CHECKED\_VS\_DRAWN\_AG

PROFILI

8+00 6+00 10+00

710

705

720 6" SEWER SERVICE INV.=715.70

715

347.10 L.F.~8" SDR 26 PVC PIPE @ 1.50%

9+00

720

715

710

705

VERTICAL SCALE: 1" = 5'

HORIZONTAL SCALE: 1" = 50'

6" SEWER SERVICE\_ INV.=723.60

SS LINE "C"

11+00

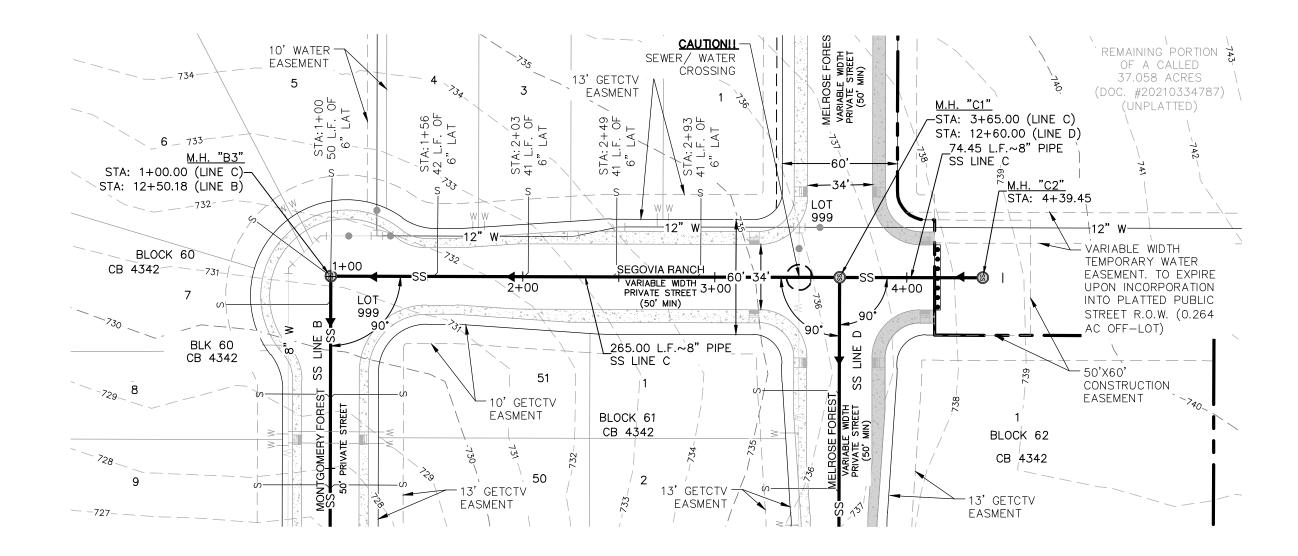
SEE SHEET -

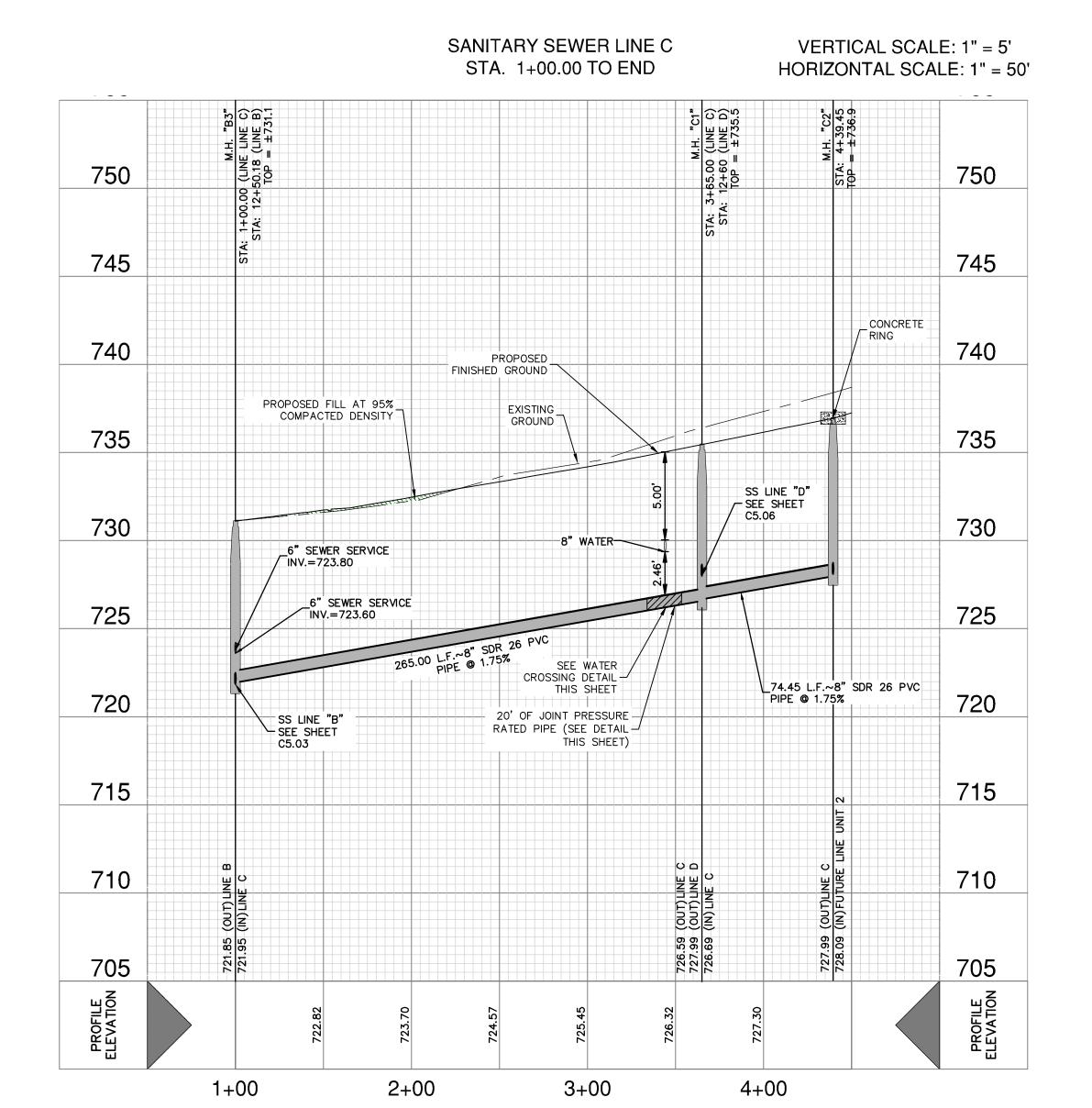
12+00

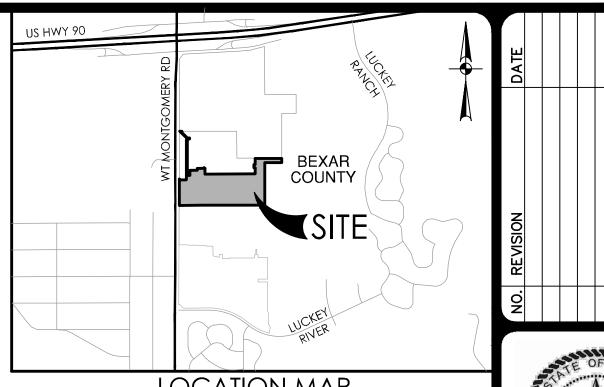
NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1648

TYPICAL UTILITY/WATER CROSSING DETAIL

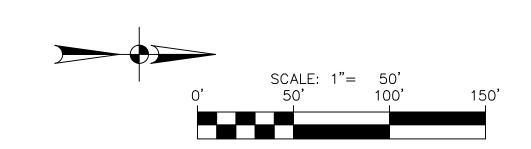
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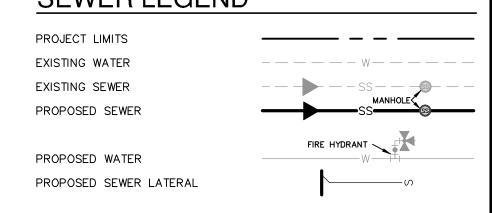


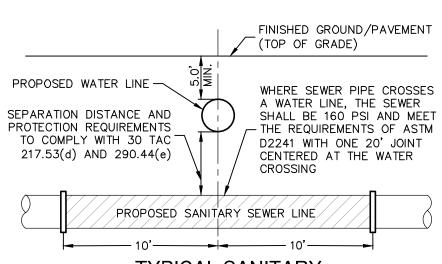






# SEWER LEGEND





TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL

#### 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.

#### 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.

DEVELOPER'S NAME: ROSEHAVEN HOMES, LLC
ADDRESS: 4007 MCCULLOGH AVE., ST.
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78212
PHONE# <u>210-375-9000</u> FAX#
SAWS BLOCK MAP# 084558 TOTAL EDU'S 119 TOTAL ACREAGE 19.75
TOTAL LINEAR FOOTAGE OF PIPE: 8" 3.503 LF PLAT NO.24-11800426

NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1648

PLAT NO. 24-11800426

JOB NO. 12638-14

DATE MARCH 2025

DESIGNER AG

CHECKED VS DRAWN AG

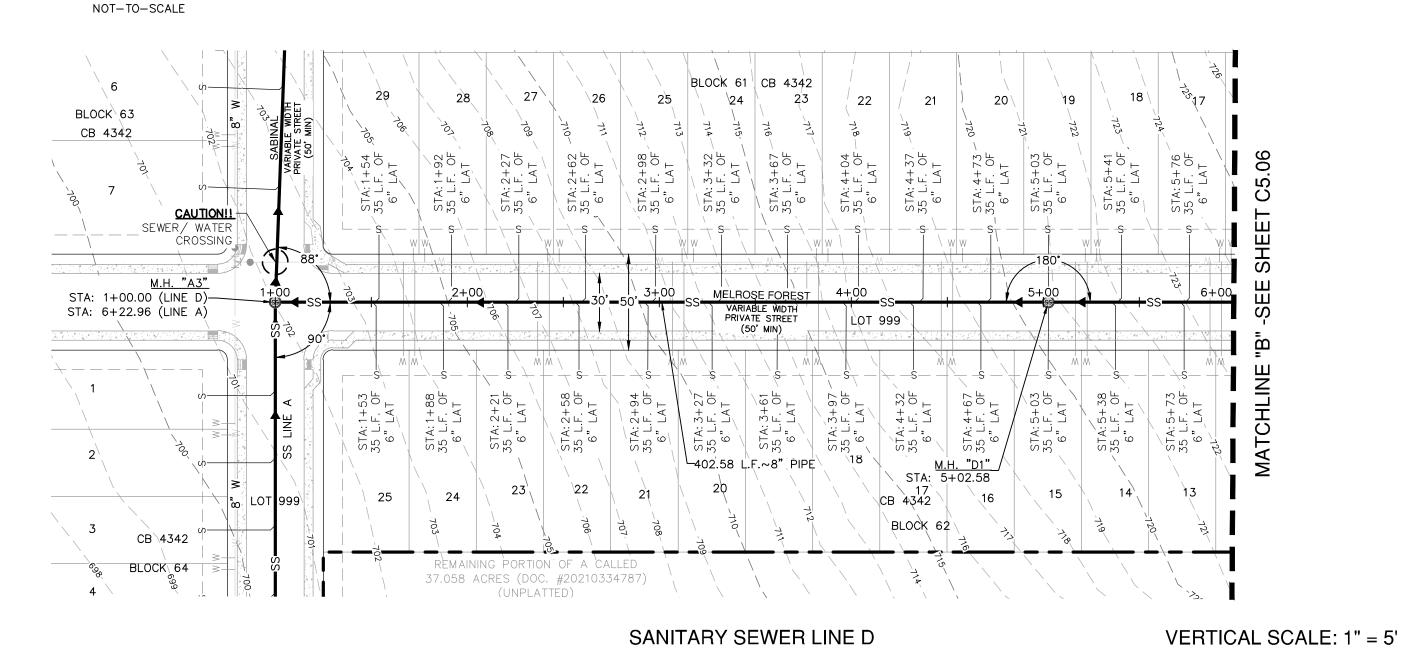
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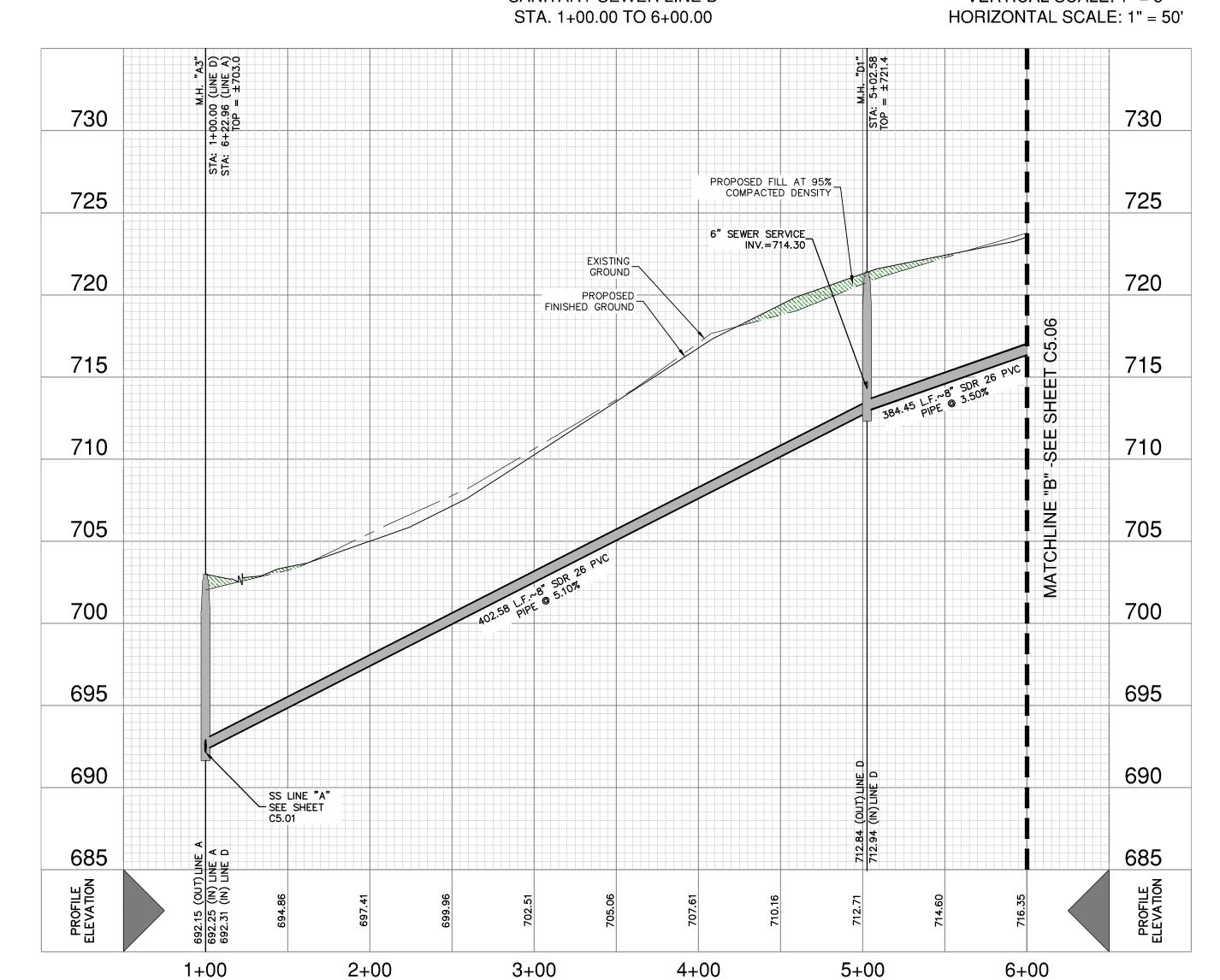
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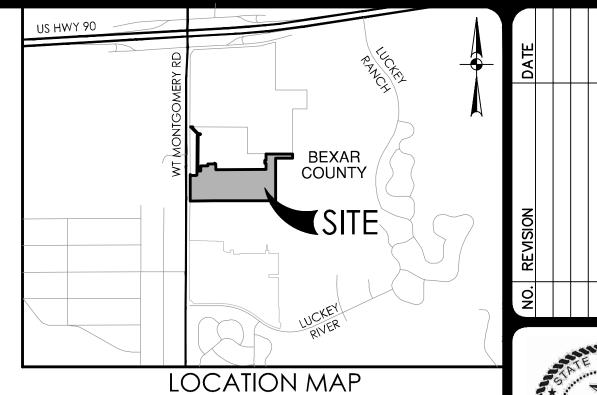
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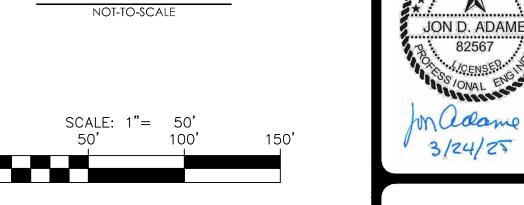
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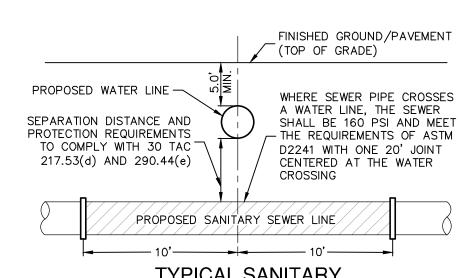


#### SEWER LEGEND PROJECT LIMITS EXISTING WATER EXISTING SEWER

PROPOSED SEWER PROPOSED WATER PROPOSED SEWER LATERAL FIRE HYDRANT

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

#### CAUTION!!

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#### TRENCH EXCAVATION SAFETY PROTECTION:

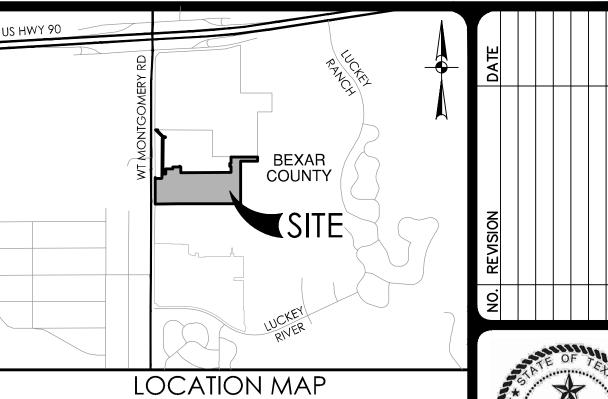
CONTRACTOR AND / OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN TH PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND / 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

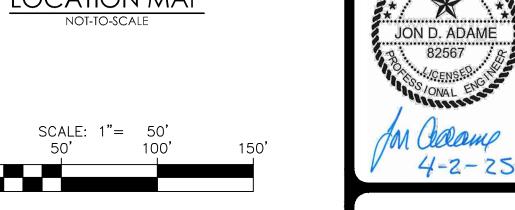
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ADDRESS: 4007 MCCULLOGH AVE., ST.
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78212
PHONE# 210-375-9000 FAX#
SAWS BLOCK MAP# 084558 TOTAL EDU'S 119 TOTAL ACREAGE 19.75
TOTAL LINEAR FOOTAGE OF PIPE: <u>8" 3,503 LF</u> PLAT NO. <u>24-11800426</u>

NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1648

PLAT NO. 24-11800426 12638-14 DESIGNER CHECKED\_VS\_DRAWN\_AG

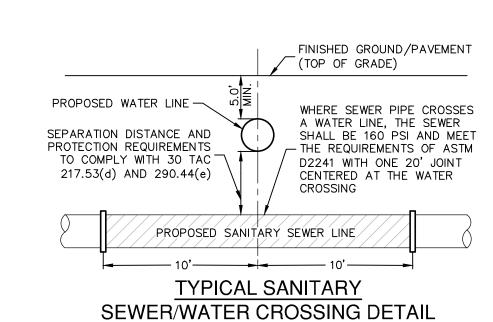




#### SEWER LEGEND PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER PROPOSED WATER

PROPOSED SEWER LATERAL

/SO/S



## CAUTION!!

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NOT-TO-SCALE

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DEVELOPER'S NAME: ROSEH	AVEN HOMES	S, LLC		
ADDRESS: 4007 MCCULLO	GH AVE., ST	•		
CITY: SAN ANTONIO	STATE:	TEXAS	ZIP:	78212
PHONE# <u>210-375-9000</u>		.FAX#		
082558 SAWS BLOCK MAP <u># 084558</u>	_TOTAL EDU	'S <u>119</u> TO	TAL ACRE	EAGE <u>19.75</u>

12638-14 DESIGNER CHECKED VS DRAWN AG

, LAT NO. 24-11800426

7+00 6+00 9+00 8+00 10+00

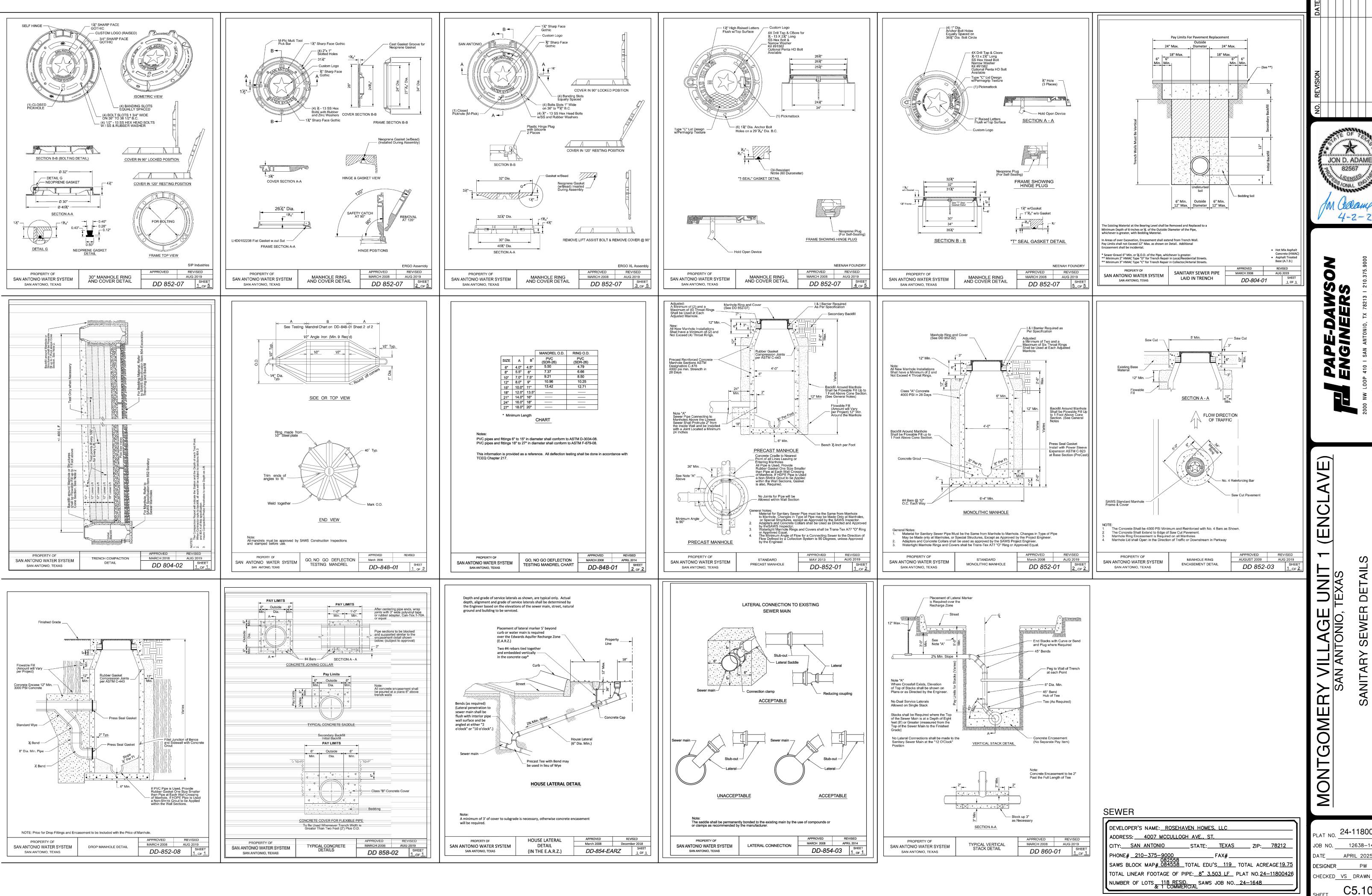
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12+60

12+00

11+00

TOTAL LINEAR FOOTAGE OF PIPE: 8" 3.503 LF PLAT NO.24-11800426 NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1648



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24-11800426 12638-14

DESIGNER CHECKED\_VS DRAWN JV C5.10

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	SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)
	SAWS GENERAL SECTION
	1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SY COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITION FOLLOWING AS APPLICABLE:
	A.CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY ( CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS A CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUE WATER", TAC TITLE 30 PART 1 CHAPTER 290.  B.CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONS HIGHWAYS, STREETS AND DRAINAGE".  C.CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIF WATER AND SANITARY SEWER CONSTRUCTION".  D.CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATION". WORKS CONSTRUCTION".  E.CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITIC
	2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATHEY OBTAIN A COPY OF THE APPROVED COUNTER PERM CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS I SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR TI
	3. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS WEBSITE, HTTP://www.saws.org/business_center/specs. UI NOTED WITHIN THE DESIGN PLANS.
	4. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAVINSPECTION DIVISION AT (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE UNAFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HIBEGINNING ANY WORK.
	5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LAT THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIB UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TOURING CONSTRUCTION AT NO COST TO SAWS.
	6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDER AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BU LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION
	<ul> <li>SAWS UTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOC</li> <li>COSA DRAINAGE (210) 207-0724 OR (210) 207-6026</li> <li>COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480</li> <li>COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951</li> <li>TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR</li> </ul>
	7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND ST ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A PROJECT'S CONSTRUCTION.
	ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT COUNTY RIGHT—OF—WAY SHALL BE DONE IN ACCORDANCE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
	9. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANT GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING N
	10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS I FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLA
	11. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFOR SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
	WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUES' REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.
	ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/W APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSF
	12. COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE MEETING THE COMPACTION REQUIREMENTS ON ALL TRENCH BA PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPA BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL I AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
	13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SA INSPECTION DIVISION.

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#### SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)

#### ENERAL SECTION

- ALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS HALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND H THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE
- TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) DESIGN FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING" TAC TITLE 30 PART 1 CHAPTER 290.
- TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF YS, STREETS AND DRAINAGE". "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR AND SANITARY SEWER CONSTRUCTION"
- CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC CONSTRUCTION".
- CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"
- ACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL IN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL ON PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY TRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK TS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND T AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- ACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS TTP: //WWW.SAWS.ORG/BUSINESS\_CENTER/SPECS. UNLESS OTHERWISE
- ACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION 2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO
- ND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND ST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO ION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE RICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM STRUCTION AT NO COST TO SAWS.
- CTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION OWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. TH CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
  - JTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES PRAINAGE (210) 207-0724 OR (210) 207-6026
  - RAFFIC SIGNAL OPERATIONS (210) 206-8480 RAFFIC SIGNAL DAMAGES (210) 207-3951
- STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811 ACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES,
- EETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE CONSTRUCTION.
- IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR SHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE ON SPECIFICATIONS AND PERMIT REQUIREMENTS.
- ACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- ACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- REQ@SAWS.ORG. ORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION

IN DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. IOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

- SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.
- NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE CTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE OO LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED ZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY ALL NECESSARY DOCUMENTED TEST RESULTS.
- ALL TESTING REPORTS SHALL 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

. 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 PRESSÙRÉ RÀTED 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 REGARDLESS 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.
- . ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

#### RK: CONTRACTORS WILL NOT BE 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.
- 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
- 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
- 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
- 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.

DEVELOPER'S NAME: ROSEHAVEN HOMES, LLC ADDRESS: 4007 MCCULLOGH AVE., ST. CITY: SAN ANTONIO \_\_\_\_\_STATE:\_\_\_\_TEXAS\_\_\_\_ ZIP:\_\_\_78212\_

NUMBER OF LOTS 118 RESID. SAWS JOB NO. 24-1648

PHONE# <u>210-375-9000</u> SAWS BLOCK MAP# 084558 TOTAL EDU'S 119 TOTAL ACREAGE 19.75 TOTAL LINEAR FOOTAGE OF PIPE: <u>8" 3,503 LF</u> PLAT NO.<u>24-11800426</u>

**∑**O

JON D. ADAME

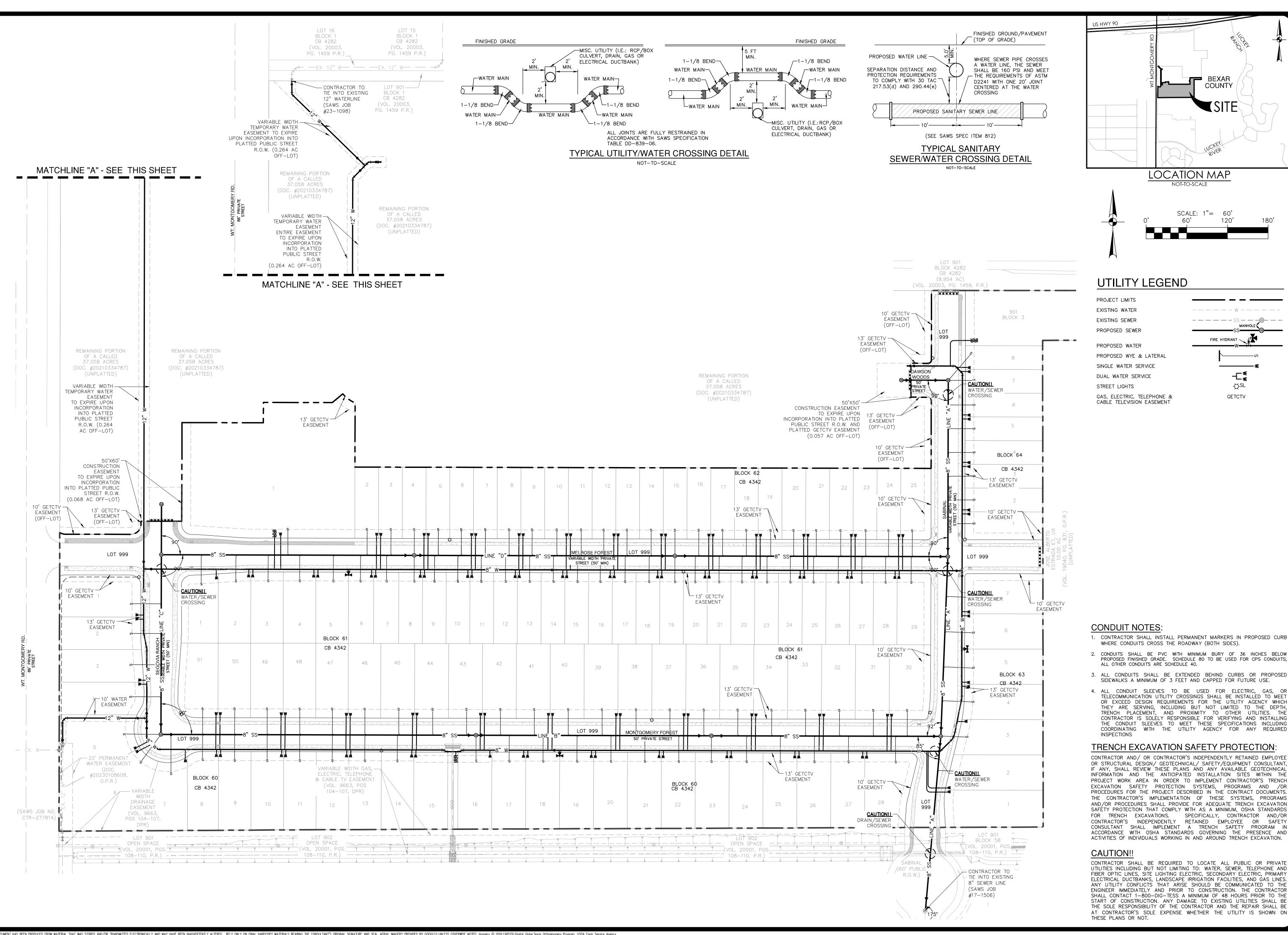
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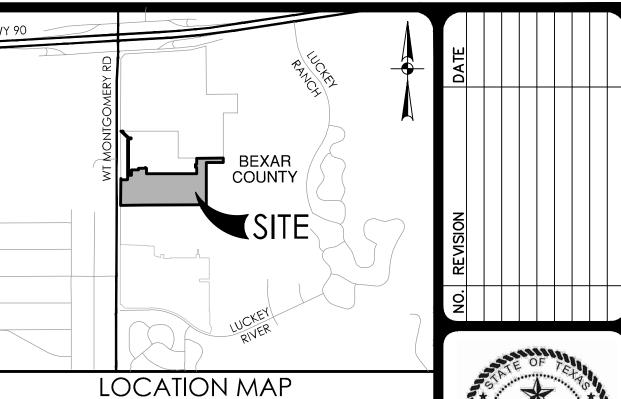
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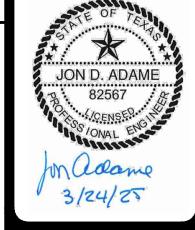
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24-11800426 12638-14

DESIGNER CHECKED VS DRAWN JV







**UTILITY LEGEND** 

PROPOSED WYE & LATERAL

NOT-TO-SCALE

SCALE: 1"= 60'

FIRE HYDRANT <

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-X-SL **GETCTV** 

- 1. CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURB WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
- ALL OTHER CONDUITS ARE SCHEDULE 40.
- 3. ALL CONDUITS SHALL BE EXTENDED BEHIND CURBS OR PROPOSED SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.
- 4. ALL CONDUIT SLEEVES TO BE USED FOR ELECTRIC, GAS, OR TELECOMMUNICATION UTILITY CROSSINGS SHALL BE INSTALLED TO MEET OR EXCEED DESIGN REQUIREMENTS FOR THE UTILITY AGENCY WHICH THEY ARE SERVING, INCLUDING BUT NOT LIMITED TO THE DEPTH, TRENCH PLACEMENT, AND PROXIMITY TO OTHER UTILITIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING AND INSTALLING THE CONDUIT SLEEVES TO MEET THESE SPECIFICATIONS INCLUDING COORDINATING WITH THE UTILITY AGENCY FOR ANY REQUIRED

#### TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE 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 ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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 TH 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 B THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL B AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN OF

24-1180042 JOB NO. 12638-14 DESIGNER PW

UNIT

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#### SWPPP LEGEND

PROJECT LIMITS EXISTING CONTOUR PROPOSED CONTOUR FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) -//-//-//-//-SILT FENCE **\*\*\*** ROCK BERM GRAVEL FILTER BAGS GRATE INLET PROTECTION SEDIMENT CONTROL ROLLS

LIMITS OF DISTURBED AREA STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)

CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE) CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE) LIMITS OF DISTURBED AREA TO BE

## PERMANENTLY RE-VEGETATED PER TPDES PERMIT REQUIREMENTS GENERAL NOTES

ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.

2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PI AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.

3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO 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 LOCATIONS

BY USE OF ADEQUATE FENCING, IF NECESSARY.

5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO 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 FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL 8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT

COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS. 9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES

COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS. 10. 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. 11. 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. 12. 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. 13. SHADED AREA DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF

CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. HOUSÉ CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.

14. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN BEXAR COUNTY RIGHT-OF-WAY WITH BEXAR COUNTY.

15. CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON TH PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

16. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN ANY BEXAR COUNTY ROW.

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR TH PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM WATER 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.

NO 24-11800426 12638-14

MARCH 2025

C8.00

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DESIGNER

720	LOT 901 BLOCK 4282 CB 4282 (8.954 AC)	
19.98 TOTAL ACRES  (AREA OF DISTURBANCE)	CONSTRUCTION EASEMENT TO EXPIRE UPON INCORPORATION INTO PLATTED PUBLIC STREET R.O.W. AND PLATTED GETCTV EASEMENT (0.057 AC OFF-LOT)	901 BLOCK 64 CB 4342
	REMAINING PORTION  OF A CALLED  37.058 ACRES  (DOC. #20210334787)  (UNPLATTED)	OCK 64
LOT 999  MELROSE FO VARIÂBLE MOTH STREET (50'	16 ROCK 62 21 21 22 24 25 24 2	6.00
OCK 61 B 4342 4 6 6 44 43 42 41 40 39 38 3	SABINAL ARIABLE WITH PRIVATE STREET (50' MIN)	JOSE ALBERTO ESTRADA ET, UX 10.00 AC (VOL. 19040, PG.) 831, O.P.R.) (UNPLATTED)
15 16 17 18 19 20 /23 /12   15 16 17 18   15	LOT 902 TOT BLOCK	DI LOT 901 BLOCK 15 CI, PGS. (VOL., PGS. P.R.) 108–110, P.R.)
	(AREA OF DISTURBANCE)  MELROSE FOURABLE WOMEN STREET (90)  MONTGOMERY 50' PRIVATE STREET (90)  MONTGOM	19.98 TOTAL ACRES (AREA OF DISTURBANCE)  REVAINING STREET ROW AND PLATE OF OTHER PROPERTY OF A CALLED TO THE PROPE

SWP3 MODIFICATIONS

DESCRIPTION

HIS 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,CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service Agency.

DATE

SIGNATURE

#### SCHEMATIC OF TEMPORARY CONSTRUCTION ENTRANCE/EXIT

#### 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 OF

DRAINAGE

RUNOFF AWAY FROM THE PUBLIC ROAD.

LAY SOD IN A STAGGERED PATTERN. BUTT

THE STRIPS TIGHTLY AGAINST EACH OTHER.

DO NOT LEAVE SPACES AND DO NOT

OVERLAP. A SHARPENED MASON'S TROWEL

IS A HANDY TOOL FOR TUCKING DOWN THE

AUTOMATIC SOD CUTTER MUST BE MATCHED

ANGLED ENDS CAUSED BY THE

ENDS AND TRIMMING PIECES.

**MATERIALS** 

OF 36 HOURS.

SHOOT GROWTH AND THATCH.

SITE PREPARATION

TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.

SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.

TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.

INSTALLATION IN CHANNELS

TIGHTLY (SEE FIGURE ABOVE).

INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

 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. 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

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.

PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD

# STABILIZE FOUNDATION

#### SECTION "A-A" OF A CONSTRUCTION ENTRANCE/EXIT

#### COMMON TROUBLE POINTS

1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD. . STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY CONDITION AS STONE IS PRESSED INTO SOIL.

. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC—EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY.

TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD. 5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER PAD AND/OR IMPROVE FOUNDATION DRAINAGE.

4. PAD NOT FLARED SUFFICIENTLY AT ROAD SURFACE, RESULTS IN MUD BEING

#### INSPECTION AND MAINTENANCE GUIDELINES 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 LISED 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.

# WOVEN WIRE SHEATHING

#### 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 . 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.

#### **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 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

**SECTION "A-A"** 

WOVEN WIRE SHEATHING

# **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

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

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

A HEIGHT NOT LESS THAN 18".

. 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).

#### **ROCK BERM DETAIL**

NOT-TO-SCALE

#### STEEL FENCE POST MAX. 6' SPACING, SILT FENCE MIN. EMBEDMENT = 1'(MIN. HEIGHT 24" (SEE INSTALLATION NOTE 1) ABOVE EXISTING GROUND) WIRE MESH BACKING COMPACTED EARTH 4X4~W1.4xW1.4 MIN OR ROCK BACKFILL - ALLOWABLE TYPICAL CHAIN LINK FENCE FABRIC IS ACCEPTABLE TRENCH-

ISOMETRIC PLAN VIEW

ENDS OF FABRIC MEET

VEHICLE ACCESS POINTS.

INCORRECT

SOD INSTALLATION

USE PEGS OR STAPLES TO FASTEN SOD

FIRMLY - AT THE ENDS OF STRIPS AND

IN THE CENTER, OR EVERY 3-4 FEET IF

MOW, DRIVE PEGS OR STAPLES FLUSH

THE STRIPS ARE LONG. WHEN READY TO

APPEARANCE OF GOOD SOD

STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT-TO-SCALE

SHOOTS OR GRASS BLADES.

GRASS SHOULD BE GREEN AND

- THATCH- GRASS CLIPPINGS AND

-ROOT ZONE - SOIL AND ROOTS.

DEAD LEAVES, UP TO 1/2" THICK.

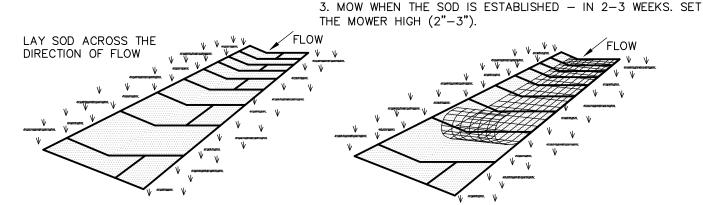
SHOULD BE 1/2"-3/4" THICK, WITH

DENSE ROOT MAT FOR STRENGTH.

HEALTHY; MOWED AT A 2"-3"

 ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.



1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH

STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO

SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN

4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD

PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT

THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL

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,

FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE

SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE

DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS

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

ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD

(± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE

IN CRITICAL AREAS, SECURE SOD WITH NETTING, USE STAPLES.

#### GENERAL INSTALLATION (VA. DEPT. OF CONSERVATION, 1992

REDUCE ROOT BURNING AND DIEBACK.

SOD SHOULD NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER. SOD ALSO SHOULD NOT BE LAID ON SOIL SURFACES THAT ARE FROZEN. 2. 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

> FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS (SEE FIGURE ABOVE).

WITH THE GROUND.

4. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM SOD SHOULD BE LAID WITH STAGGERED JOINTS AND SECURED BY STAPLING OF OTHER APPROVED METHODS. SOD SHOULD BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON CONTOUR).

5. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL. 6. 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

UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHOULD BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4

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 LEAF SHOULD BE REMOVED AT ANY ONE CUTTING.

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

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

SOD INSTALLATION DETAIL

SILT FENCE

STAPLE

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.

I. 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

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 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

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

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.

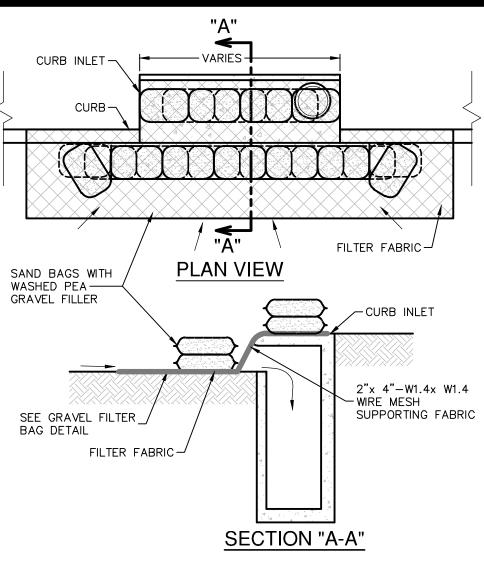
3. REPLACE TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.

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

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.

SILT FENCE DETAIL

NOT-TO-SCALE



#### **GENERAL NOTES**

A MANNER THAT IT WILL NOT ERODE.

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.

#### INSPECTION AND MAINTENANCE GUIDELINES . INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED BY THE

2. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH

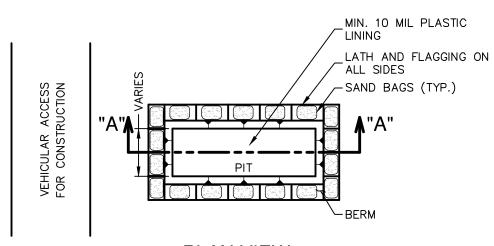
3. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND

4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING. 5. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER

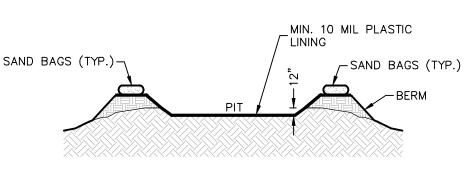
#### BAGGED GRAVEL CURB INLET PROTECTION DETAIL

THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

NOT-TO-SCALE



**PLAN VIEW** 



## SECTION "A-A'

#### **GENERAL NOTES**

. 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.

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.

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

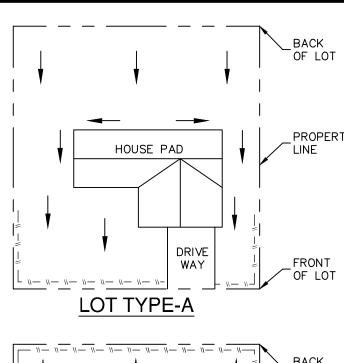
WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT

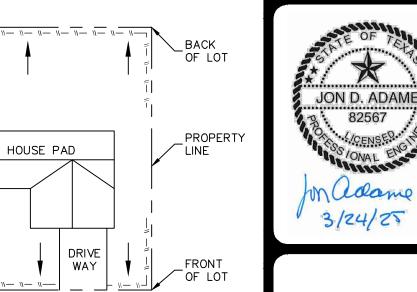
HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

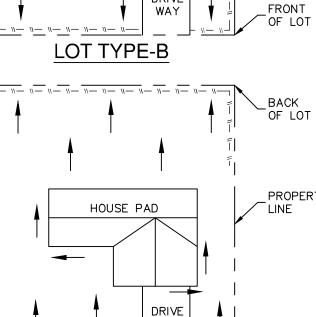
FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED

#### CONCRETE TRUCK WASHOUT

PIT DETAIL NOT-TO-SCALE



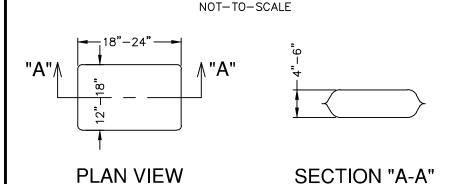




LOT TYPE-C NOTE: SILT FENCE TO BE INSTALLED PER LEGENI THESE DETAILS AND LOCATED ON THE DOWNGRADIENT SIDE OF EACH LOT LINE —" —" — SILT FENCE DRAINAGE FLO OR LIMITS OF CLEARING AS GENERALL'S

WAY

SHOWN ON THE OVERALL SITE PLAN. TYPICAL HOUSE LOT LAYOUTS

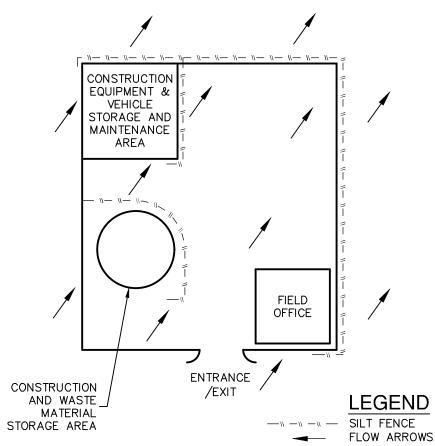


THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE. POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MIN. UNIT WEIGHT OF 4 OUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA

GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER). 3. SAND SHALL <u>NOT</u> BE USED TO FILL THE FILTER BAGS.

# GRAVEL FILTER BAG DETAIL

NOT-TO-SCALE



# CONSTRUCTION STAGING AREA

NOT-TO-SCALE

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

HIS 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.

MARCH 2025 ESIGNER HECKED VS DRAWN J\

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