# 14 STONEHILL UNITS 6B & 8

# NO.24-11800437PD JOB NO. 12456-14

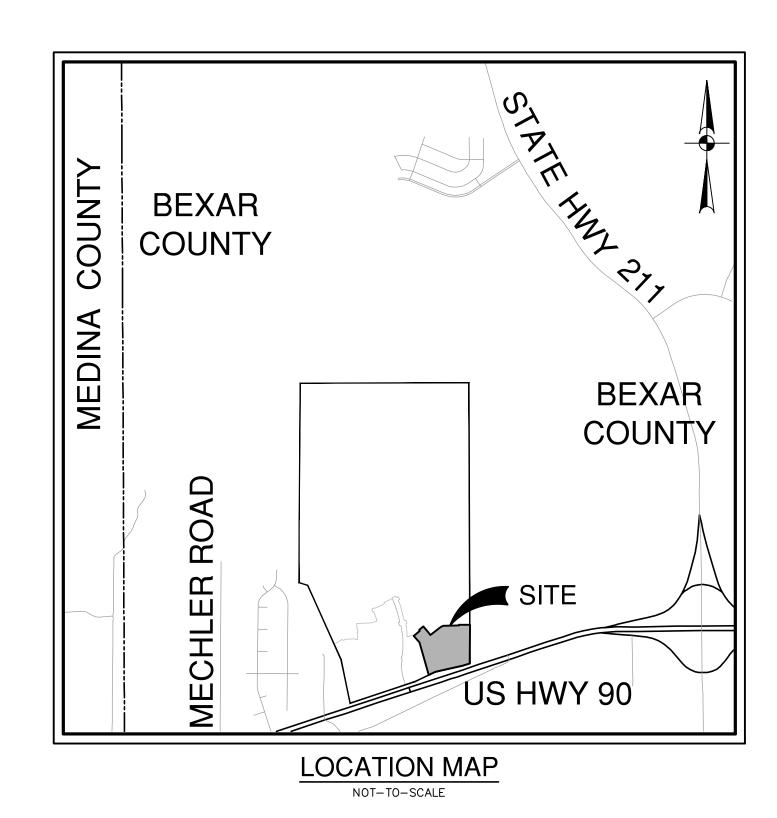
# STONEHILL UNITS 6B & 8

# SAN ANTONIO, TEXAS

# CIVIL CONSTRUCTION PLANS

# Sheet List Table

Sheet Description	Sheet No.
COVER SHEET	C0.00
MASTER DRAINAGE PLAN	C1.00
DRAIN A & A-1 PLAN & PROFILE	C1.01
DRAIN B & B-1 PLAN & PROFILE	C1.02
PRIVATE V-SWALE DETAILS	C1.03
DRAINAGE DETAILS	C1.10
DRAINAGE DETAILS	C1.11
DRAINAGE DETAILS	C1.12
DALLAM COVE PLAN & PROFILE (STA. 1+40.00 TO END)	C2.00
HANSFORD POINT PLAN & PROFILE (STA. 6+83.30 TO END)	C2.01
LIPSCOMB FALLS PLAN & PROFILE (STA. 1+38.39 TO END)	C2.02
MOTLEY COVE PLAN & PROFILE (STA. 5+35.00 TO END)	C2.03
WHEELER GLEN PLAN & PROFILE (STA. 1+52.95 TO END)	C2.04
WICHITA ROCK PLAN & PROFILE (STA. 5+48.82 TO END)	C2.05
TYPICAL STREET DETAILS	C2.10
TYPICAL STREET DETAILS	C2.11
TYPICAL STREET DETAILS	C2.12
OVERALL SIGNAGE PLAN	C3.00
OVERALL SIGNAGE PLAN	C3.01
SIGNAGE DETAILS SHEET 1 OF 2	C3.10
SIGNAGE DETAILS SHEET 2 OF 2	C3.11



PREPARED FOR:

CONTINENTAL HOMES OF TEXAS, L.P. 5419 N LOOP 1604 SAN ANTONIO, TEXAS 78218

NOVEMBER 2024



•		Sheet No
	OVERALL WATER DISTRIBUTION PLAN	C4.00
	OVERALL WATER DISTRIBUTION PLAN	C4.01
	WATER DISTRIBUTION PLAN DETAILS	C4.10
	WATER DISTRIBUTION PLAN NOTES	C4.11
	OVERALL SANITARY SEWER PLAN	C5.00
	OVERALL SANITARY SEWER PLAN	C5.01
	SANITARY SEWER LINE A PLAN & PROFILE (STA. 1+00 TO 12+00)	C5.02
	SANITARY SEWER LINE A PLAN & PROFILE (STA. 12+00 TO END)	C5.03
	SANITARY SEWER LINE B PLAN & PROFILE	C5.04
	SANITARY SEWER LINE C AND D PLAN & PROFILE	C5.05
	SANITARY SEWER DETAILS	C5.10
	SANITARY SEWER NOTES	C5.11
	OVERALL UTILITY PLAN	C6.00
	OVERALL UTILITY PLAN	C6.01
	OVERALL GRADING PLAN	C7.00
	STORM WATER POLLUTION PREVENTION PLAN	C8.00
	STORM WATER POLLUTION PREVENTION PLAN DETAILS	C8.10

**Sheet List Table** 



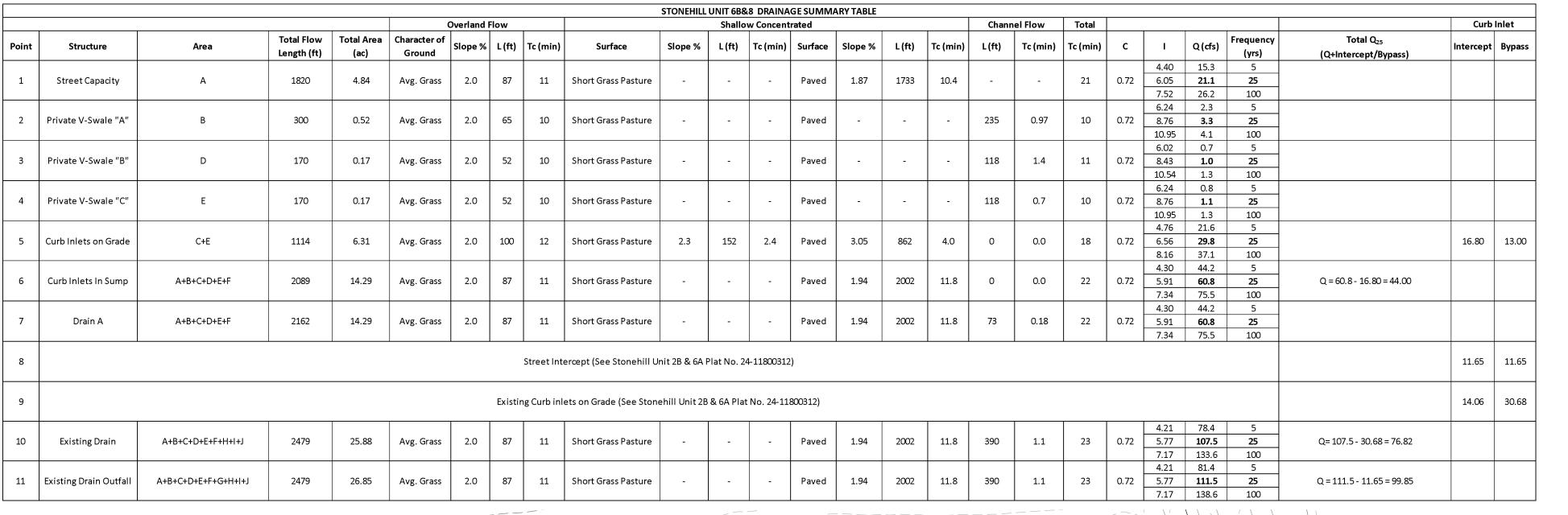
# WATER (SAWS PRESSURE ZONE 930)

SEWER

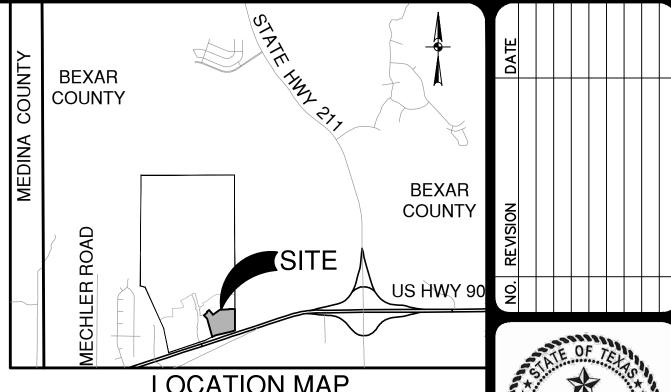
EVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.					
DDRESS: <u>5419 N LOOP 1</u>	604				
ITY: SAN ANTONIO	STATE:TEXAS	ZIP: <u>78218</u>			
HONE# (210) 496-2668	FAX#				
68558, AWS BLOCK MAP# <u>68560</u>	TOTAL_EDU'S_112	TOTAL ACREAGE 21.9			
OTAL LINEAR FOOTAGE OF	PIPE: 8" 3322 LF	PLAT NO.24-11800437			
UMBER OF LOTS 112	SAWS JOB NO.	. 24–1650			

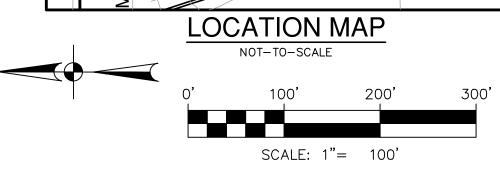
SHEET <u>C0.00</u>

ate: Feb 14, 2025, 8:12am User ID: Richardgarc ile: P:\124\56\14\Desian\Civil\CV-1245614.dwa







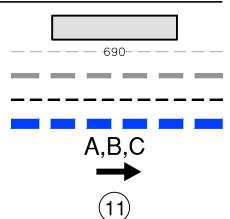


# MASTER DRAINAGE LEGEND

PROJECT LIMITS EXISTING CONTOUR 100 YR FLOODPLAIN RUNOFF FLOW PATH DRAINAGE AREA BOUNDARY FHA LOT GRADING TYPE PROPOSED DIRECTION OF FLOW

DRAINAGE CALCULATION POINT

DRAINAGE AREA



11 A

0

CALEB M. CHANCE

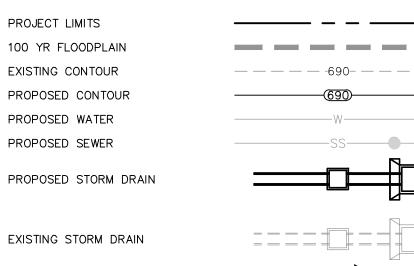
98401

 $\infty$ ONEHILL UNITS 6B SAN ANTONIO, TEXAS

ST

PLAT NO. 24-1180043 JOB NO. 12456-14





 $Q_{25} = 22.00 \text{ CFS}$ 

A = L(0.44), h = 0.56, g = 32.2, c = 0.67

L = 11.08 FT USE 1 ~ 15 FT CURB INLET EACH SIDE

h =  $\left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{22.00}{(3.087)(15)}\right)^{2/3} = 0.61 \text{ FT.}$ 

h = 0.61 < 0.79 OK

# **KEY LEGEND**

(SEE DETAIL SHEET C1.12)

(B) CONTRACTOR TO GROUT BOTTOM OF BOX TO ALLOW

- 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN 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.
- 4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BO CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
- 5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
- 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
- AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN TH

- PROJECT SITE AND ADJACENT AREAS DURING CONSTRUCTION.
- 2. NO CONSTRUCTION MATERIAL AND/OR WASTE MATERIAL SHALL E PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF THE EXISTING NATURAL DRAINAGE OR PLACED WITHIN THE LIMITS OF

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 /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 ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

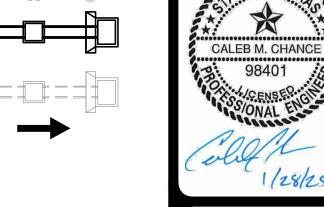
# CAUTION!!

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



PROPOSED CONTOUR PROPOSED WATER PROPOSED SEWER

FLOW ARROW



HYDRAULIC CALCULATIONS-DRAIN "A-1" TOTAL  $Q_{25} = 44.00$  CFS (22.00 CFS EACH INLET)

 $Q_{25} = CA\sqrt{2gh}$  (ORIFICE FLOW EQN.)

 $L = \frac{22.00 \text{ G} \cdot \text{C}}{(0.70) (0.50)\sqrt{2 (32.2) (0.50)}}$ 

CHECK WITH WEIR FORMULA

(A) CONCRETE COLLAR

FOR POSITIVE DRAINAGE

# DRAINAGE & GRADING NOTES:

HYDRAULIC

CALCULATIONS

STORM DRAIN

STA. 1+02.50 TO 1+09.65

HYDRAULIC

**CALCULATIONS** 

STORM DRAIN

STA. 1+14.65 TO 1+33.84

Q25 = 22.00 cfs

S = 0.50%

Sf = 0.26%

n = 0.013

D = 2.5'

Vf = 4.48 fps

Q25 = 22.00 cfs

S = 1.40%

Sf = 0.26%

n = 0.013

D = 2.5'

Vf = 4.48 fps

- 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.
- 6. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING
- 7. CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUNE

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

- 1. CONTRACTOR IS TO MAINTAIN UNRESTRICTED DRAINAGE OF

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

THESE PLANS OR NOT.

<sub>T NO</sub> 24-11800437

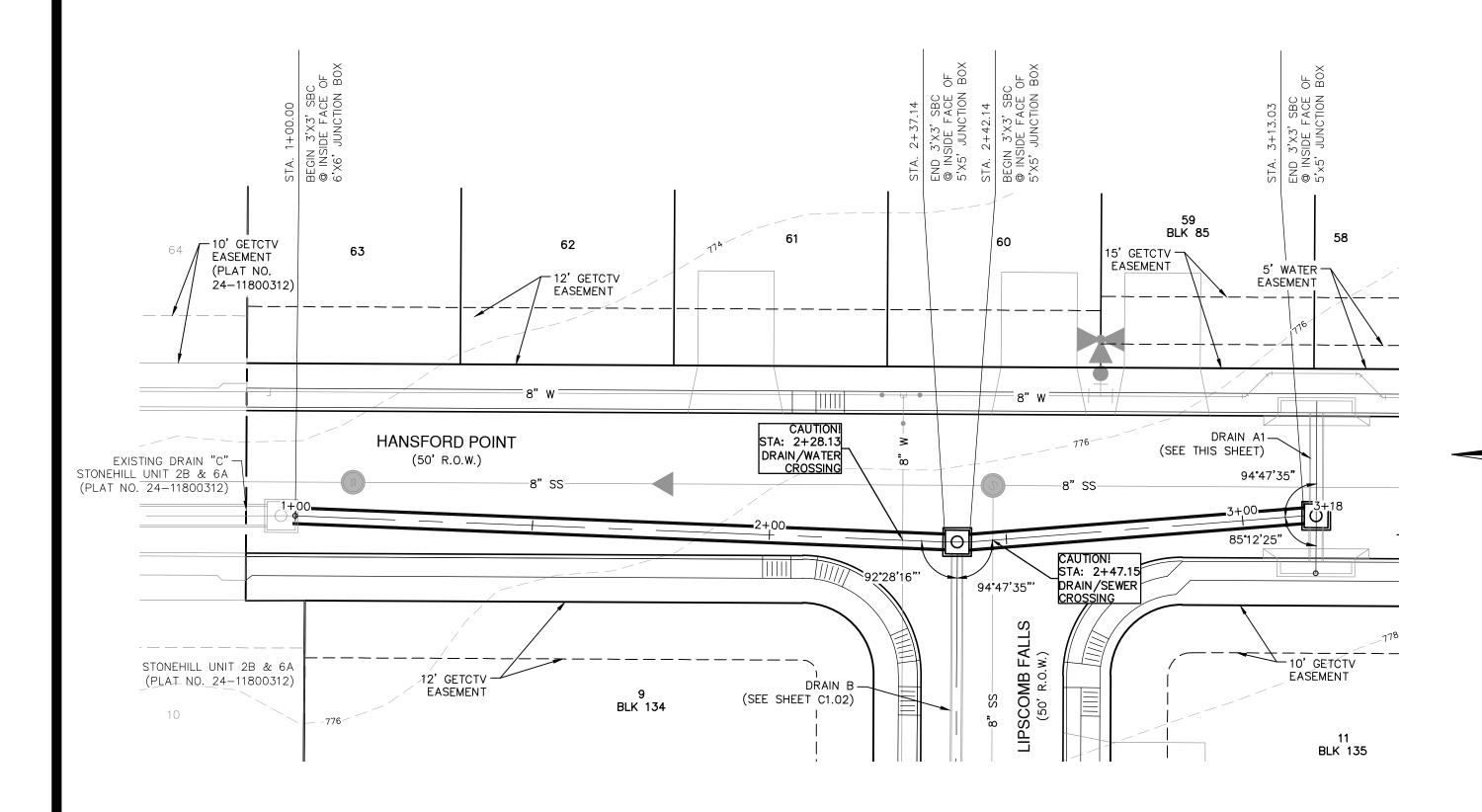
JOB NO. 12456-14

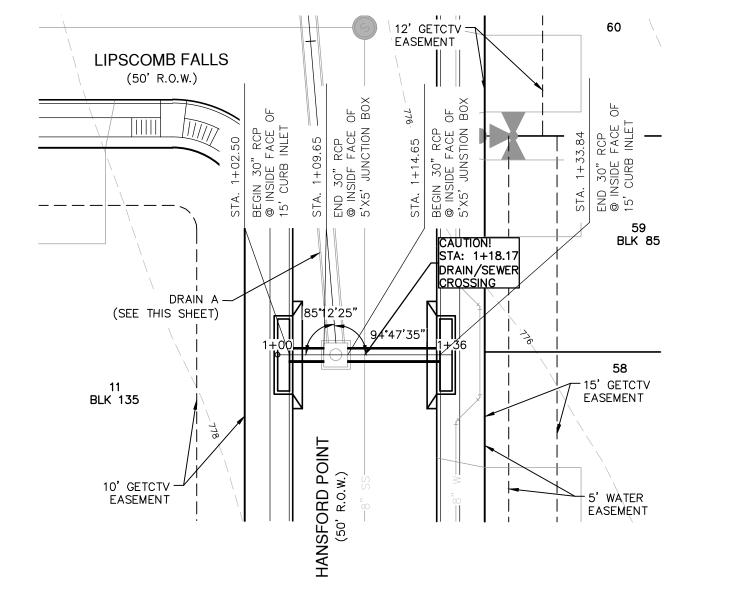
DATE NOVEMBER 2024

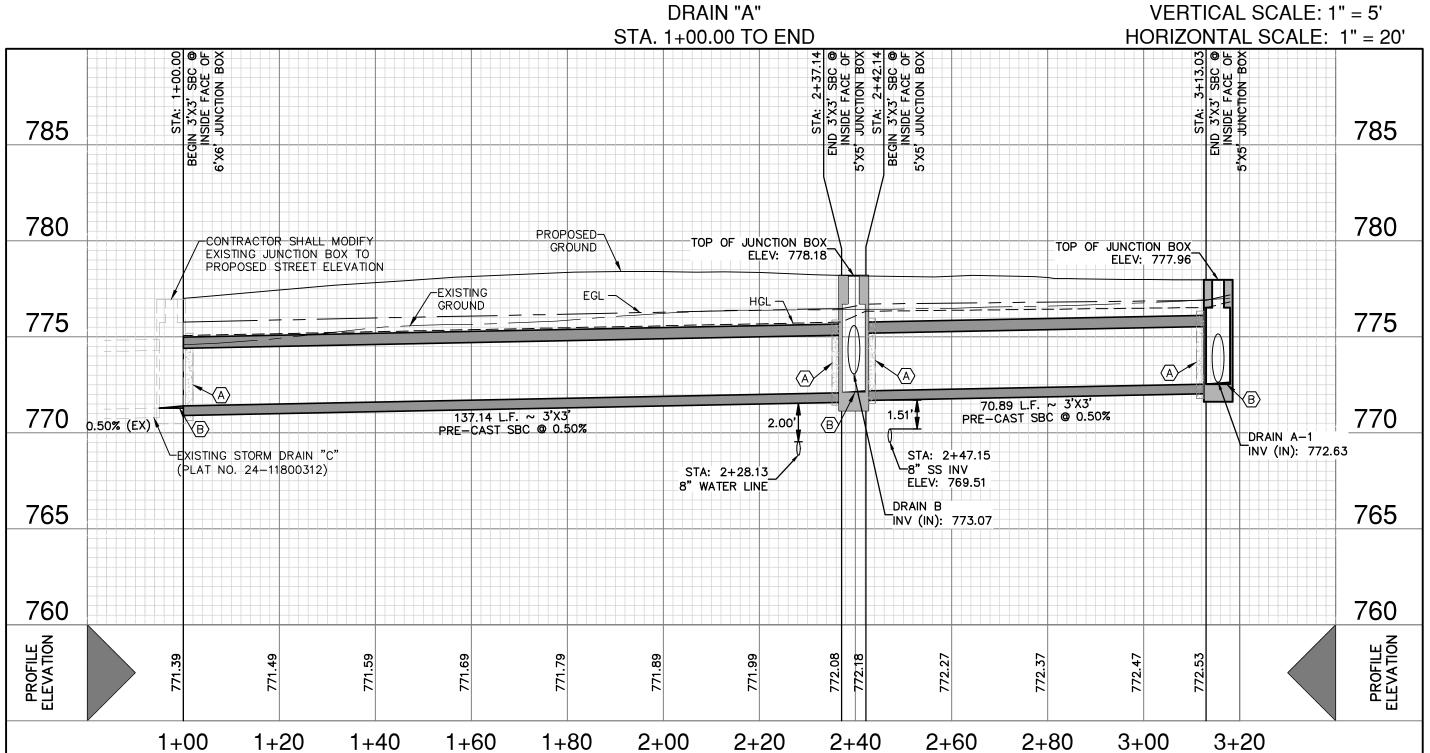
HECKED BL DRAWN RG

C1.01

DESIGNER







2+00

1+60

1+80

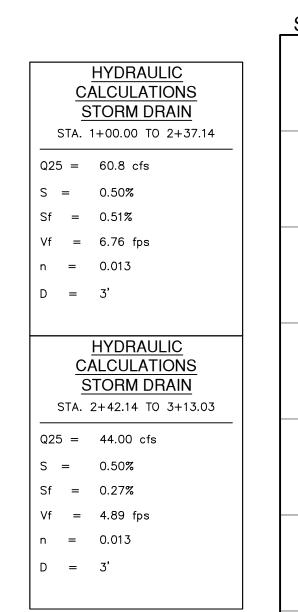
2+40

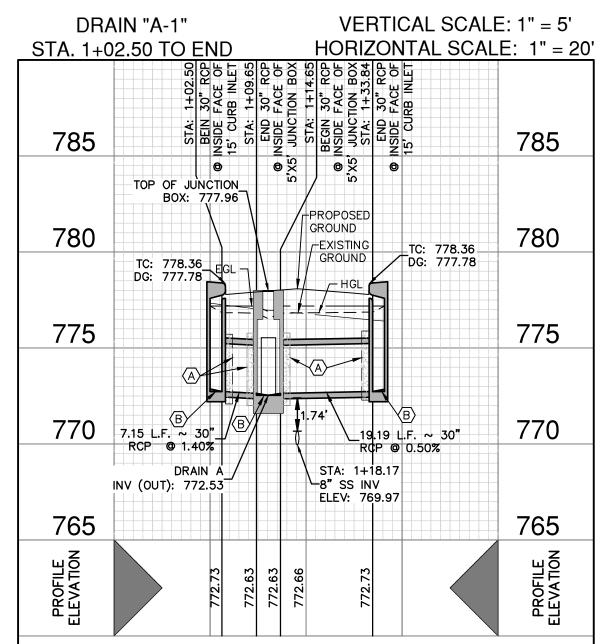
2+60

2+80

3+00

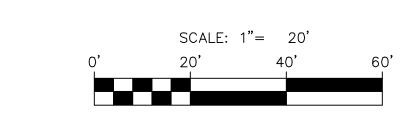
3+20



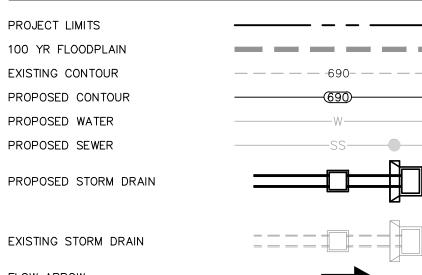


1+00 1+20

1+40



# DRAINAGE LEGEND

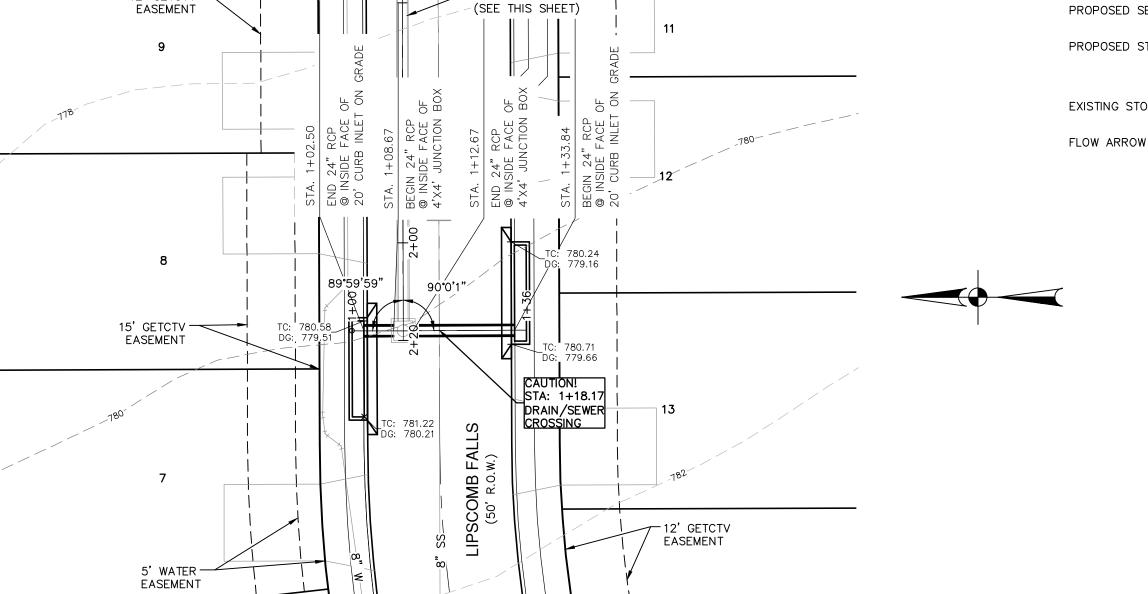


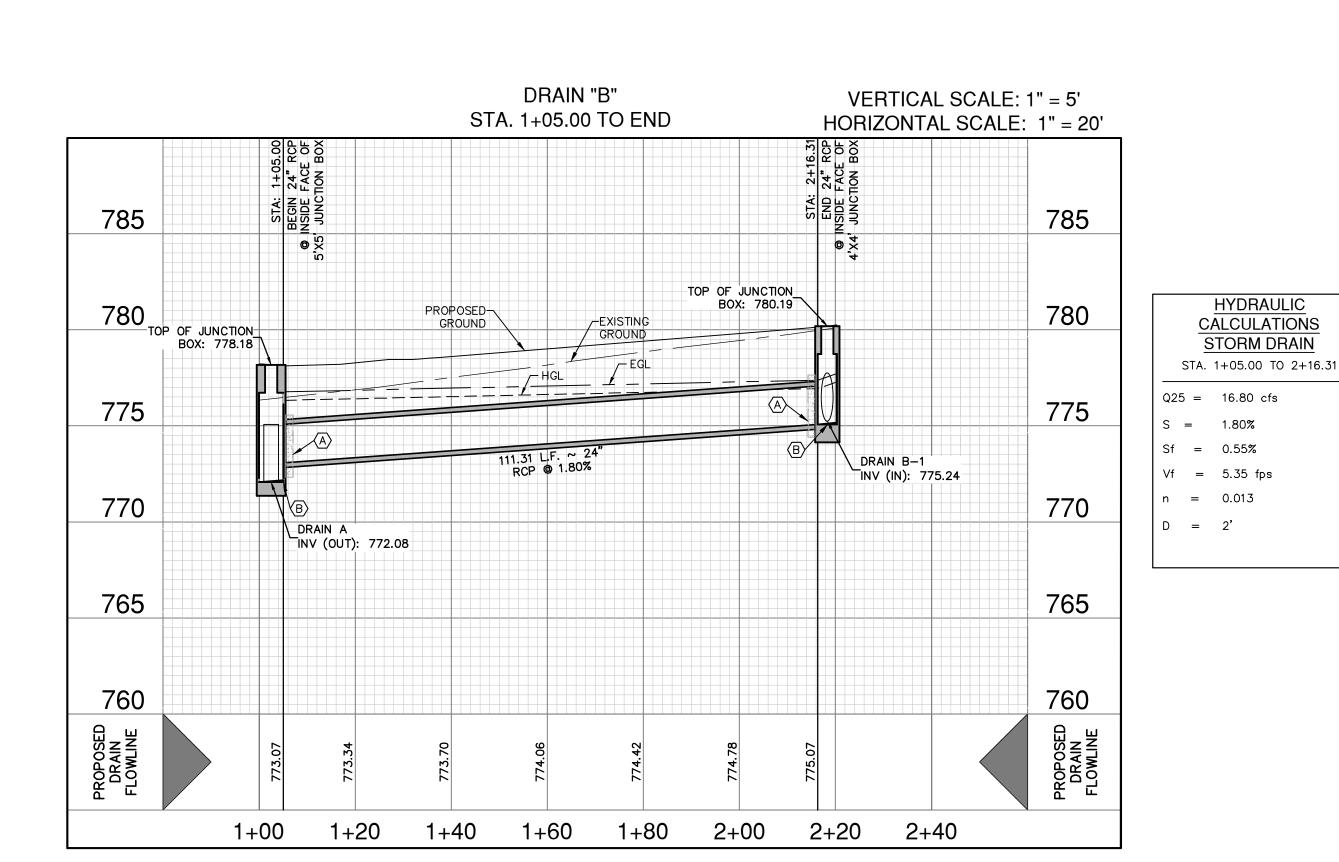
KEY LEGEND

(SEE DETAIL CUSTO (SEE DETAIL SHEET C1.12)

B CONTRACTOR TO GROUT BOTTOM OF BOX TO ALLOW FOR POSITIVE DRAINAGE

\*SEE STORM WATER MANAGEMENT PLAN FOR CURB INLET ON GRADE CALCULATIONS





(50' R.O.W.) LIPSCOMB FALLS

> 12' GETCTV → EASEMENT

> > HYDRAULIC

**CALCULATIONS** 

STORM DRAIN

(SEE THIS SHEET)

EASEMENT

ر 1+00 <del>كا</del>

EASEMENT

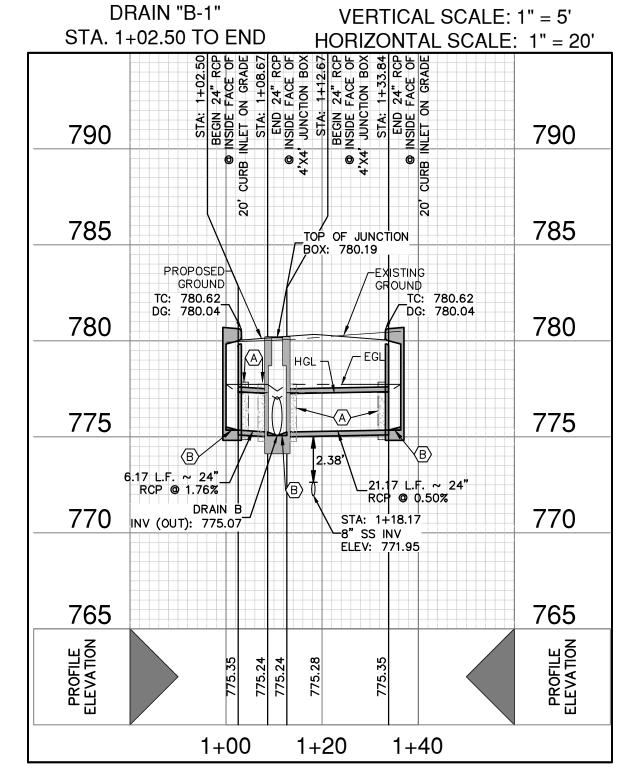
12' GETCTV -EASEMENT

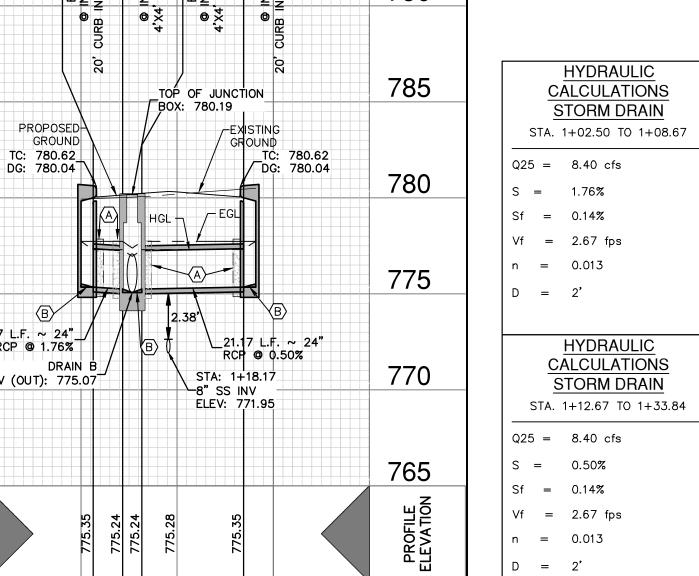
12' GETCTV -EASEMENT

94°47'35"

(SEE SHEET C1.01)

92°28'17





# **DRAINAGE & GRADING NOTES:**

- 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN 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.
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- AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE

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

- 1. CONTRACTOR IS TO MAINTAIN UNRESTRICTED DRAINAGE OF PROJECT SITE AND ADJACENT AREAS DURING CONSTRUCTION.
- 2. NO CONSTRUCTION MATERIAL AND/OR WASTE MATERIAL SHALL E 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

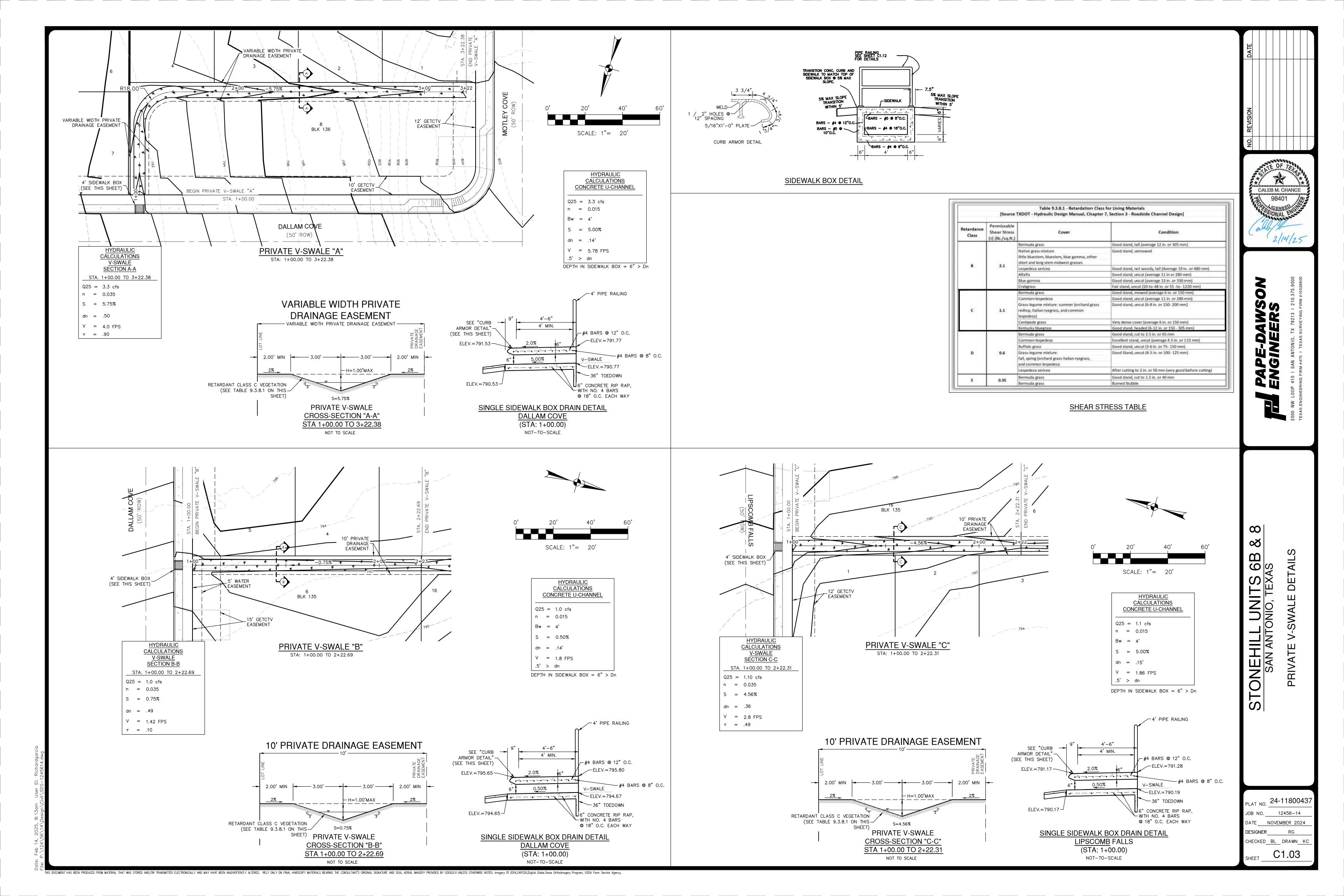
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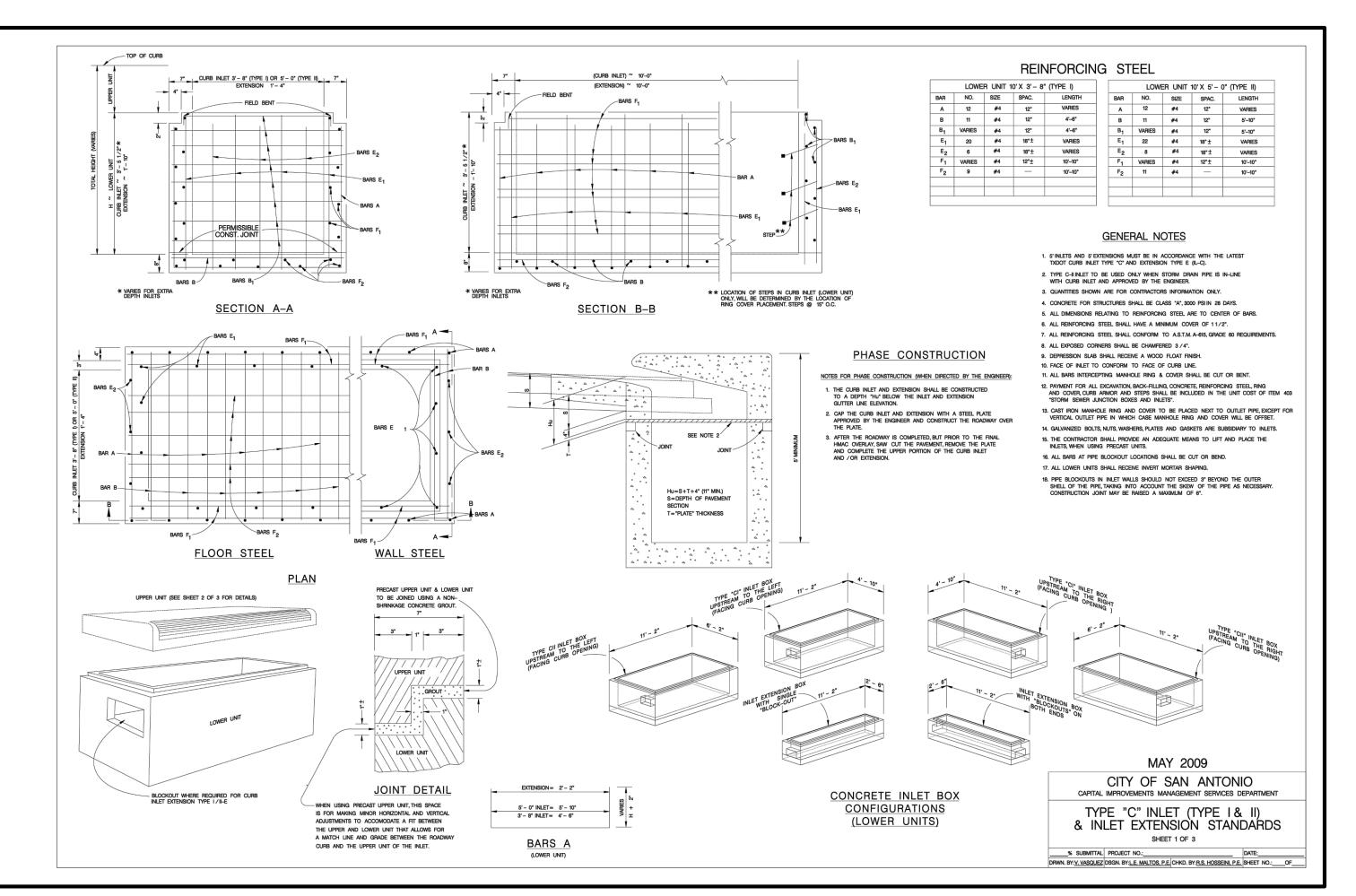
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CALEB M. CHANCE

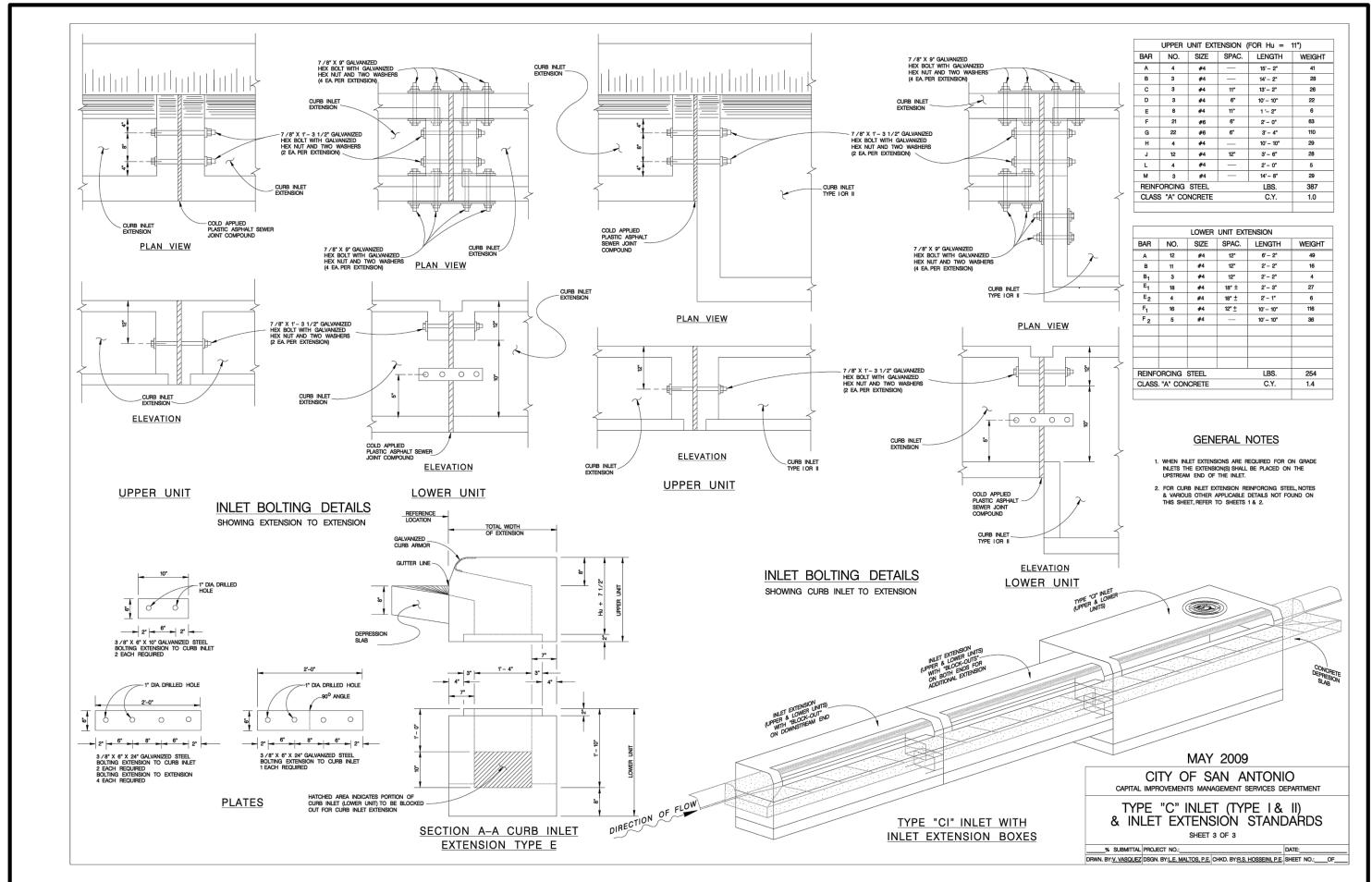
PLAT NO.	24-118004
	12456-14
DATE	NOVEMBER 2024
DESIGNER	RG
CHECKED_	BL DRAWN F



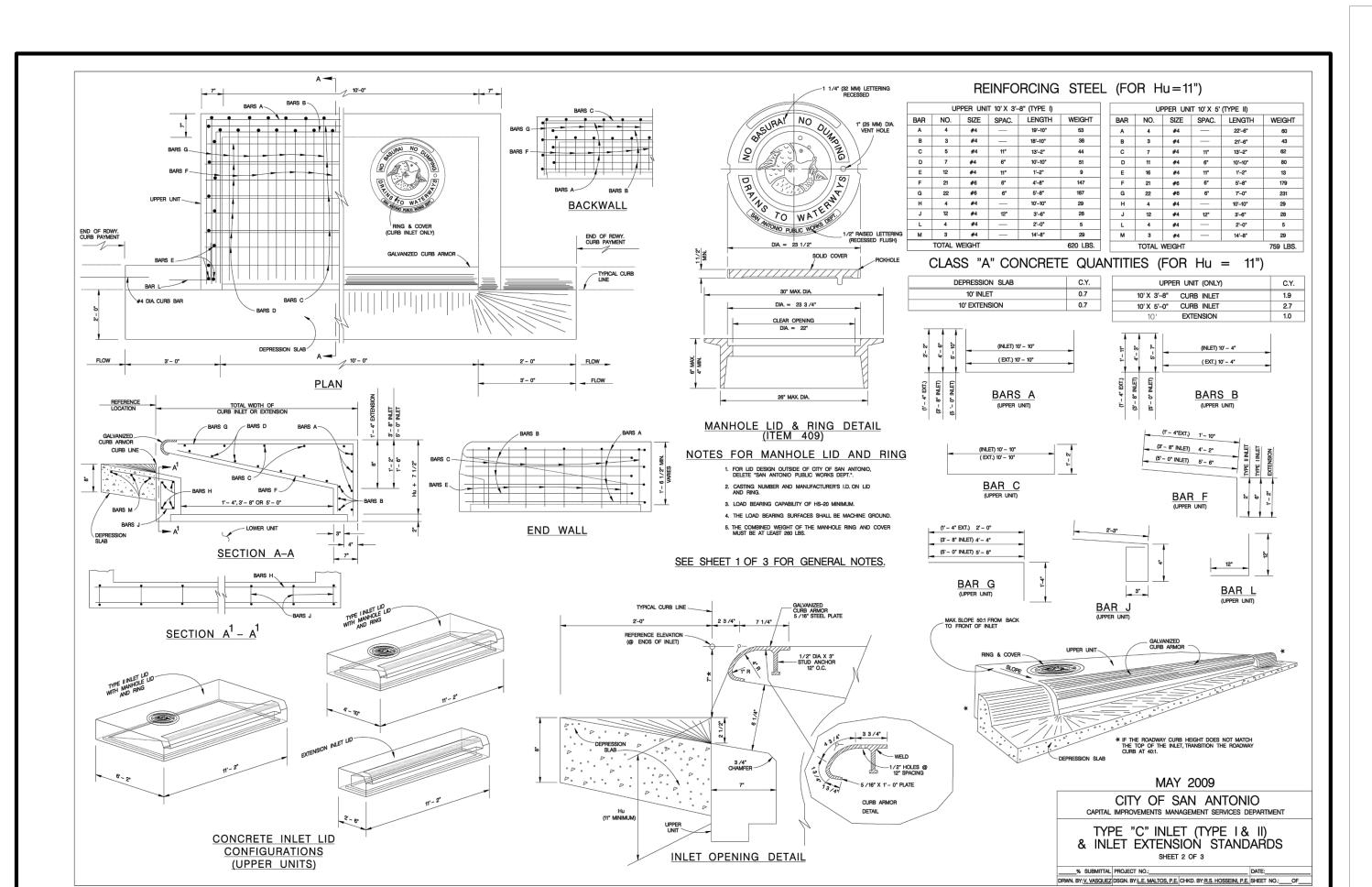


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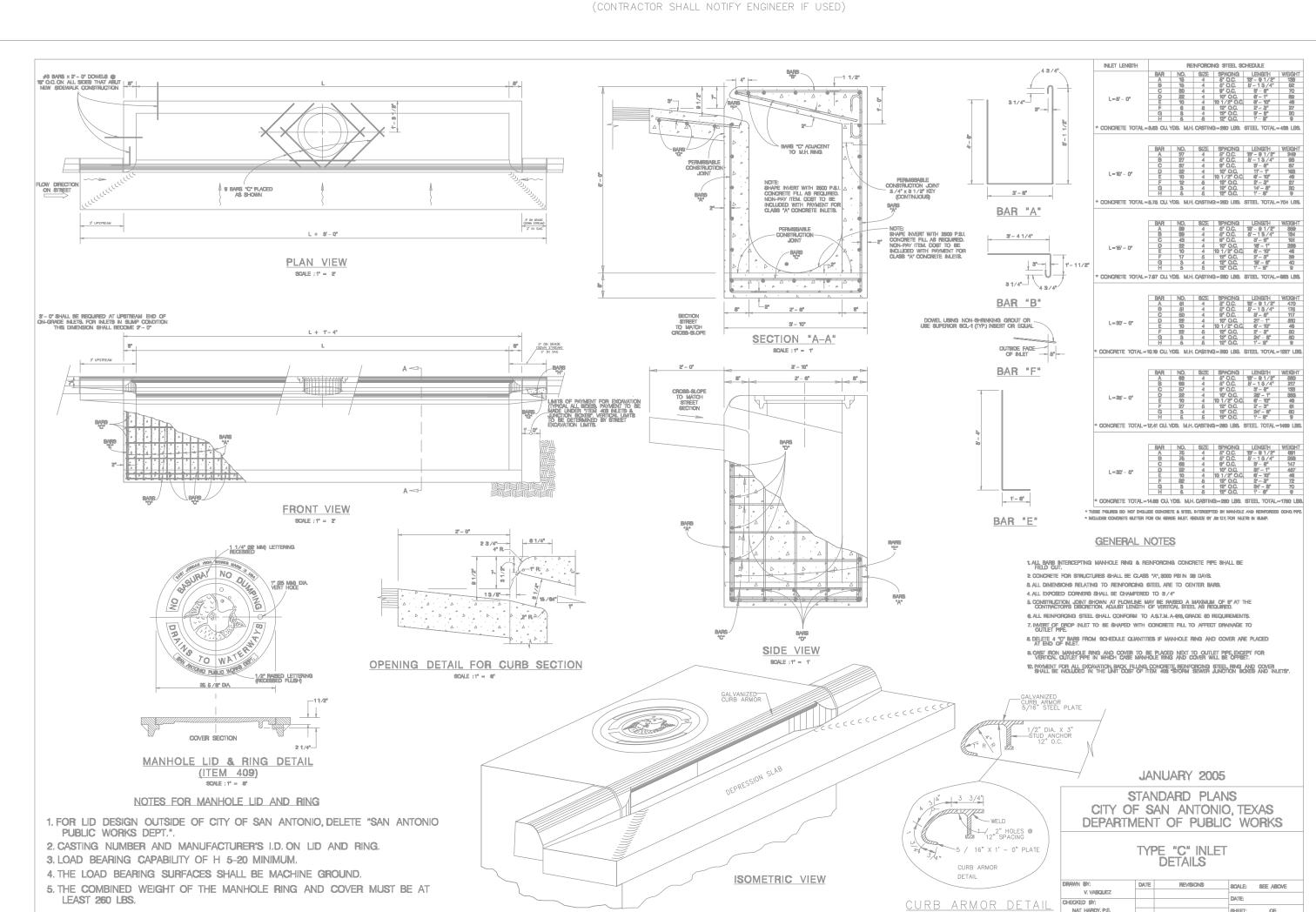
(CONTRACTOR SHALL NOTIFY ENGINEER IF USED)



NOT USED







PAPELD THE ENGINE

CALEB M. CHANCE

128/25

STONEHILL UNITS 6B & SAN ANTONIO, TEXAS

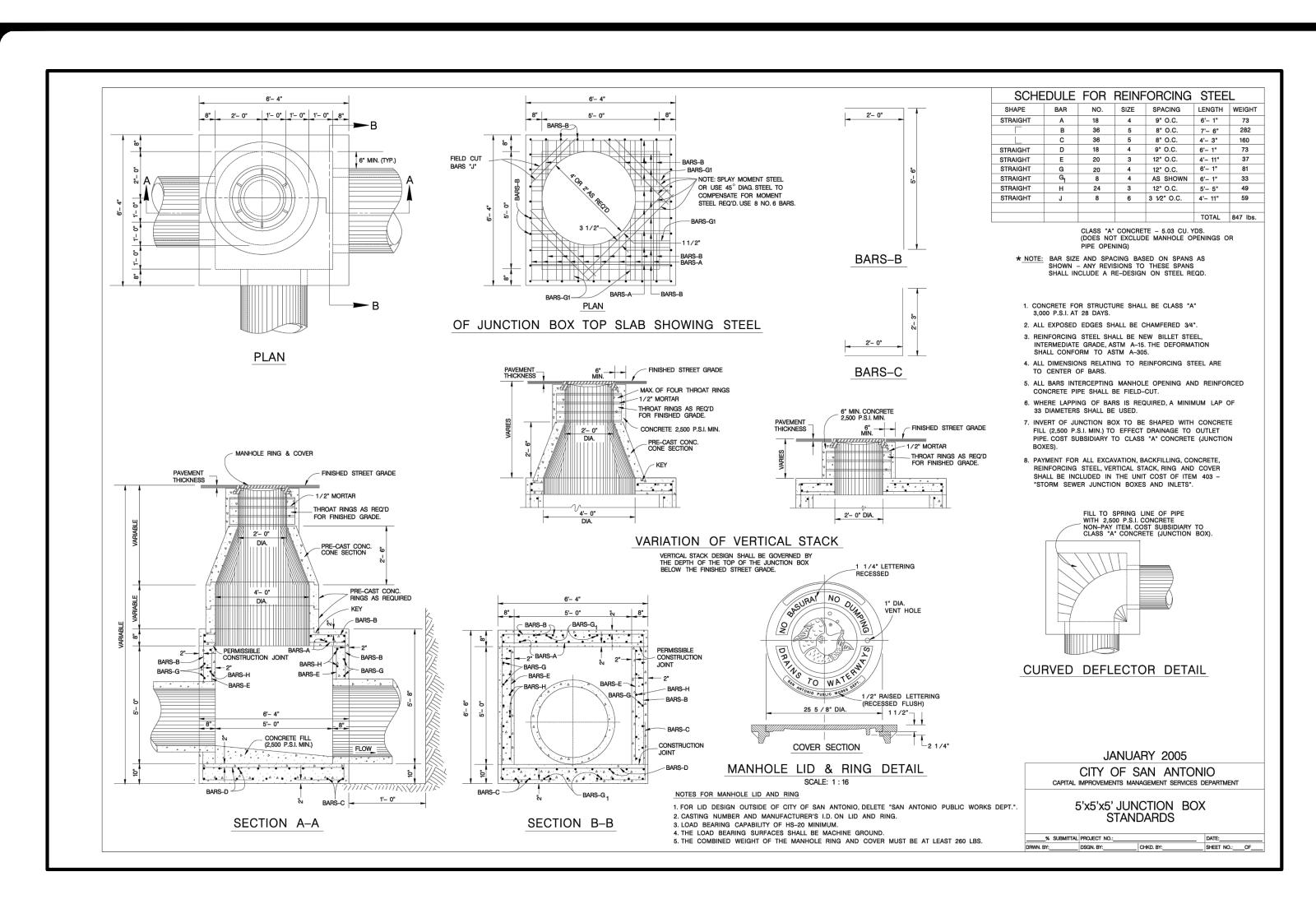
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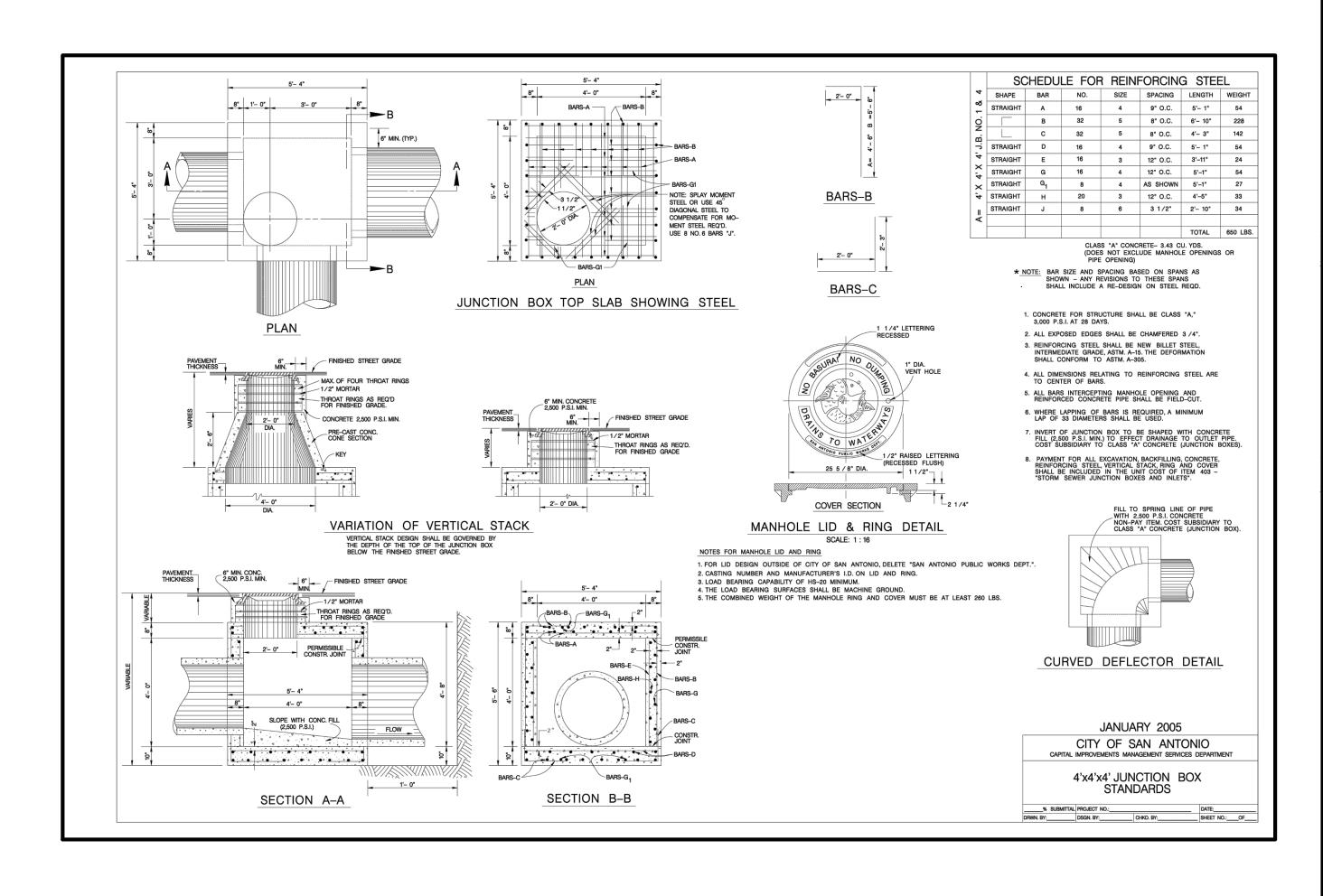
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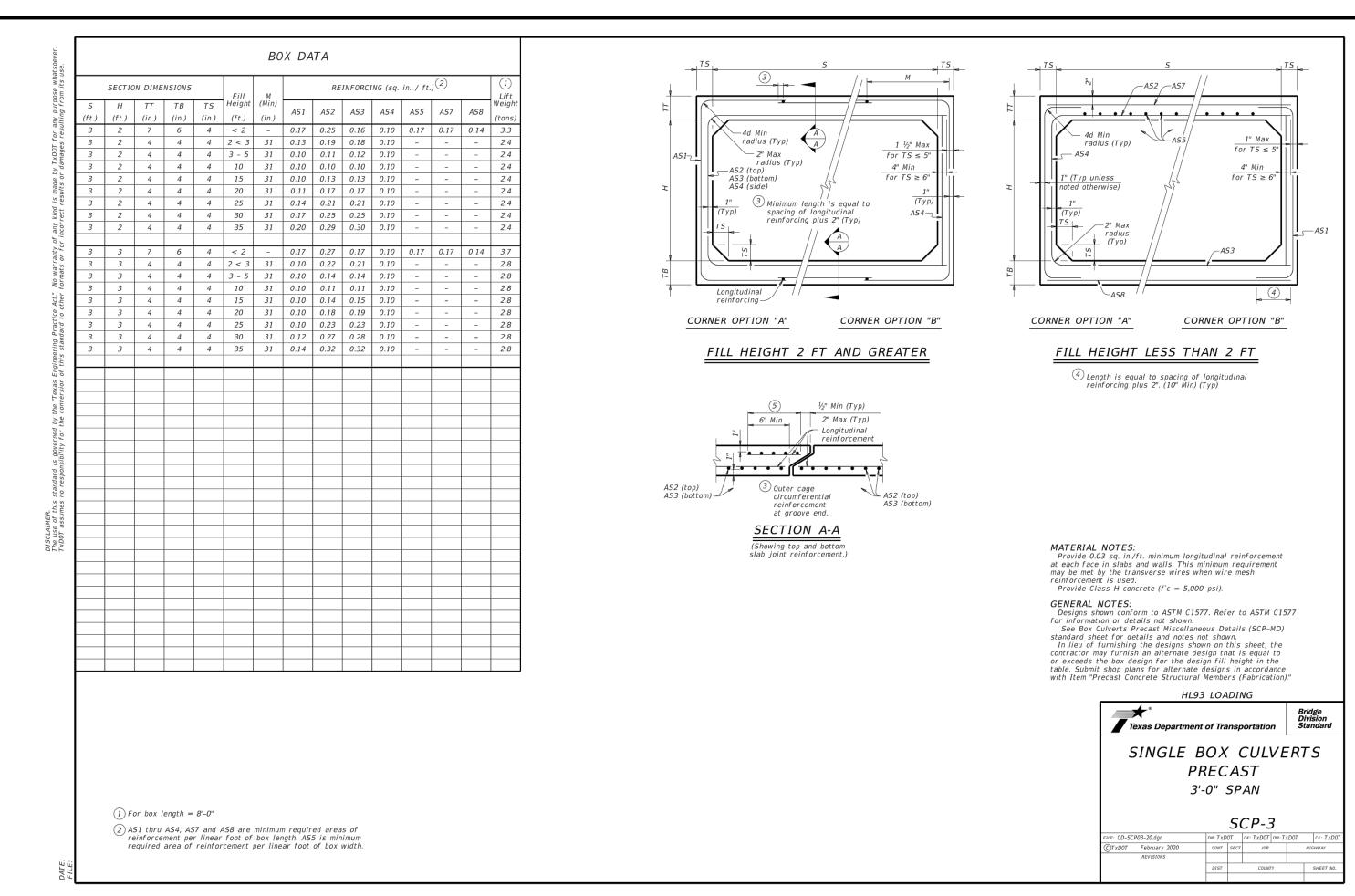
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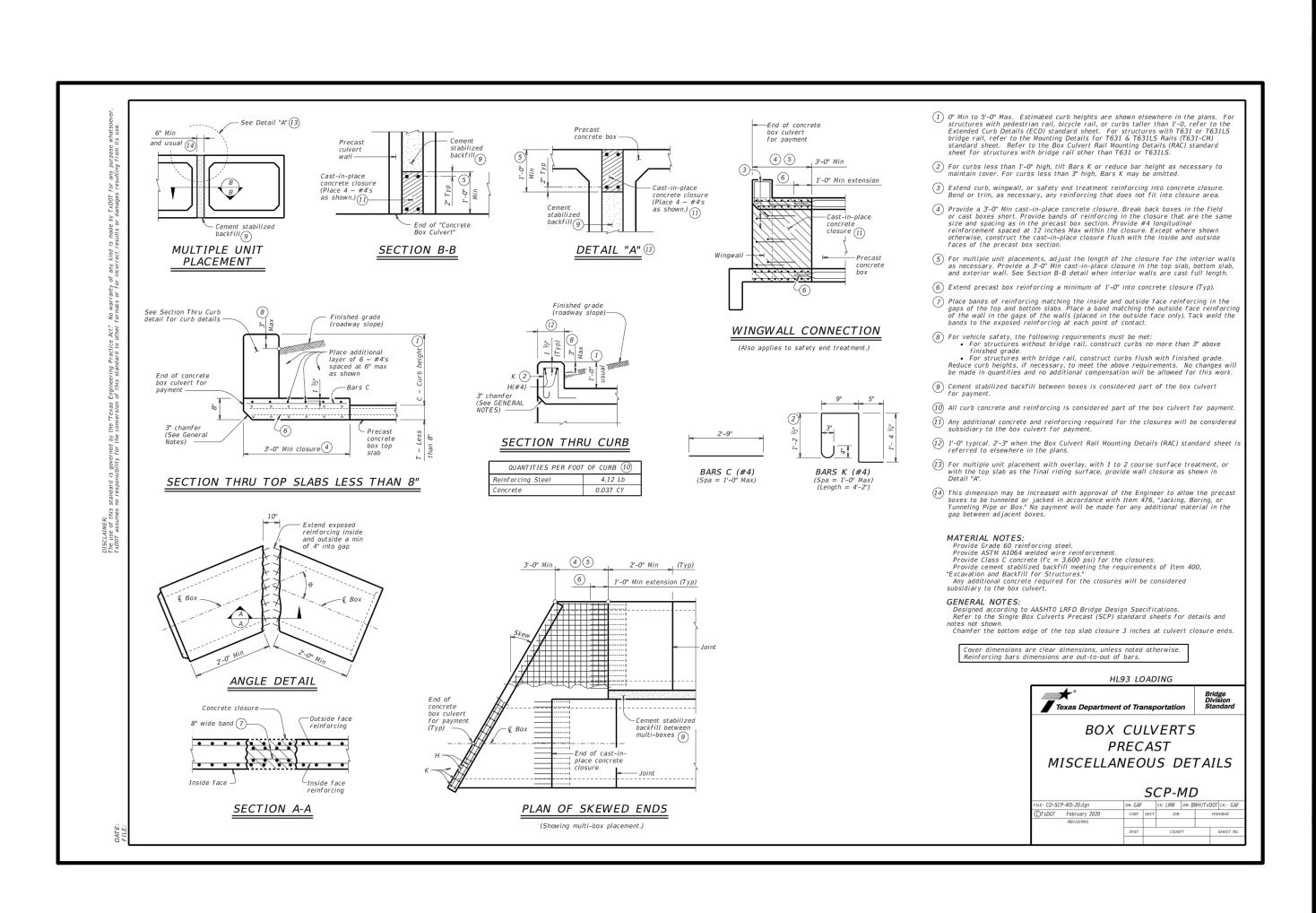
DESIGNER RG

CHECKED BL DRAWN RG









PAPE-FILE ENGIN 2000 NW LOOP 410 I SAN ANTON

CALEB M. CHANCE

SAN ANTONIO, TEXAS

PLAT NO. 24-11800437

JOB NO. 12456-14

DATE NOVEMBER 2024

DESIGNER RG

CHECKED BL DRAWN RG
SHEET C1.11

CALEB M. CHANCE

8

**∞** 

TONEHILL UNITS 6
SAN ANTONIO, TEXAS

<sub>- NO.</sub> 24-11800437

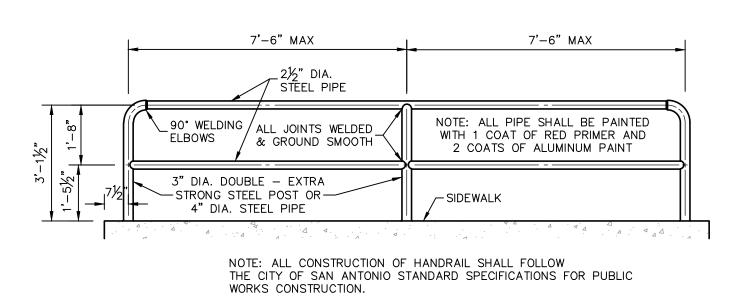
JOB NO. <u>12456-14</u>

DATE <u>NOVEMBER</u> 2024

CHECKED BL DRAWN RG

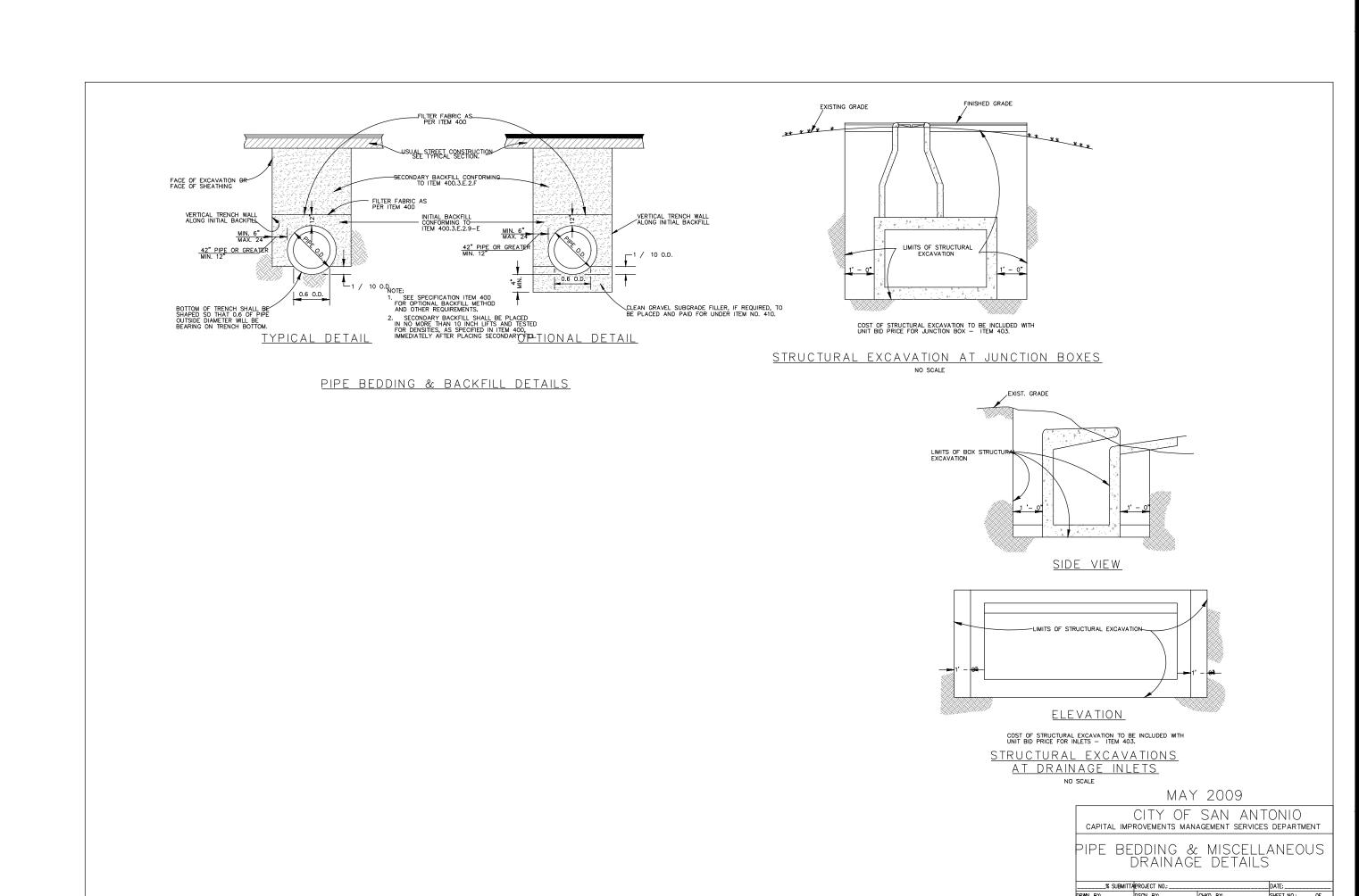
SHEET \_ C1.12

DESIGNER



PIPE RAILING DETAIL

NOT-TO-SCALE

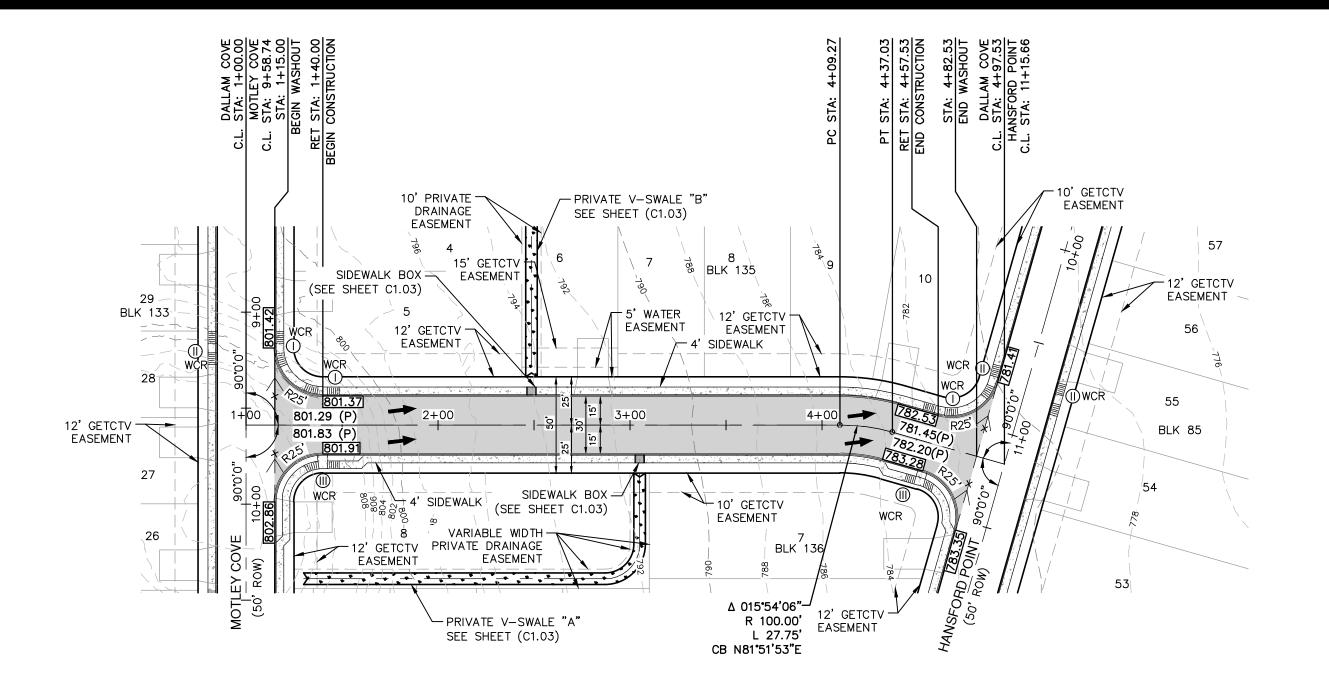




PROVIDE AT CONNECTION TO ALL STRUCTURES

6" ALL AROUND 6 . 6 4 - 3" PROTRUSION AND GROUTED STORM DRAIN PROTRUDING PIPE FLOW IS FOR DROP STRUCTURE ONLY -8 ~ #4 BARS 8 ~ #4 BARS — SHAPE INVERT SLOPE WITH CONCRETE FILL NOTES:
1. CONCRETE FOR STRUCTURE SHALL BE -EXTERIOR WALL OF CONCRETE STRUCTURE CLASS "A," 3,000 P.S.I. AT 28 DAYS. 2. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4". 3. REINFORCING STEEL SHALL BE NEW BILLET STEEL, INTERMEDIATE GRADE, ASTM. MUST BE FLUSH AND GROUTED A-15. THE DEFORMATION SHALL CONFORM TO ASTM. A-305. STORM DRAIN 4. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF FLOW 5. ALL BARS INTERCEPTING MANHOLE OPENING AND REINFORCED CONCRETE PIPE SHALL BE FIELD-CUT. SHAPE INVERT SLOPE 6. WHERE LAPPING OF BARS IS REQUIRED, A WITH CONCRETE FILL MINIMUM LAP OF 33 DIAMETERS SHALL BE 7. INVERT OF JUNCTION BOX TO BE SHAPED WITH CONCRETE FILL (3,000 P.S.I. MIN.) TO EFFECT DRAINAGE TO OUTLET PIPE. COST SUBSIDIARY TO CLASS "A" CONCRETE (JUNCTION BOXES). PIPE FLUSH WITH INVERT





DALLAM COVE VERTICAL SCALE: 1" = 5' HORIZONTAL SCALE: 1" = 50' STA. 1+40.00 TO END STA: 4+57.53 CURB RETURN CONSTRUCTION 820 RT. HIGH PT STA = 1+50.00 RT. HIGH PT ELEV = 801.60 815 RT. PVI STA = 2+00.00815 RT. PVI ELEV = 799.85 RT. A.D. = -3.86 RT. K = 25.90 100.00' V.C. (RT.) 810 810 805 ---2.00% (RT) -3.50% 800 -2.00% (L −2.00%(LT) PROPOSED TOP -3.50%\_ (LT.) OF CURB (RT) PROPOSED TOP 795 OF CURB (LT) TOP OF EXISTING GROUND (RT) COMPACTED FILL TO 95% DENSITY TOP OF EXISTING GROUND (CTR) TOP OF EXISTING GROUND (LT) LT. HIGH PT STA = 1+50.00785 LT. HIGH PT ELEV = 801.06 LT. PVI STA = 2+00.00LT. PVI ELEV = 799.31 LT. A.D. = -4.00LT. K = 25.00100.00' V.C. (LT.) -3.50% 780 (LT.) COMPACTED FILL TO 95% DENSITY -2.00**%**-(LT.) 775 770 TOP OF CURB RIGHT

1+50

2+00

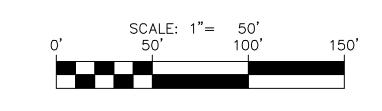
2+50

3+00

3+50

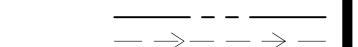
4+00

4+50



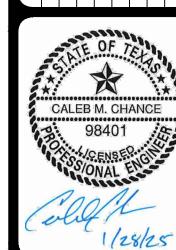
# STREET LEGEND

PROJECT LIMITS	
MAINTAIN GUTTER	$- \rightarrow \rightarrow$
EXISTING CONTOUR	———— 970-——
WHEELCHAIR RAMP	lacktriangle
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) ×
SIDEWALK BOX	
WASHOUT CROWN SECTION	
SIDEWALK (DEVLOPER'S RESPONSIBILIT	Y)
SIDEWALK (HOMEOWNER'S RESPONSIBIL	LITY)



5'X5' PASSING SPACE IN DEVELOPER SIDEWALK

DRIVEWAY



PAPE-DAWSO ENGINEERS

# NEHILL UNITS 6B SAN ANTONIO, TEXAS

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STREET NOTES: 1. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING I 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 CUR 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 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN TH 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

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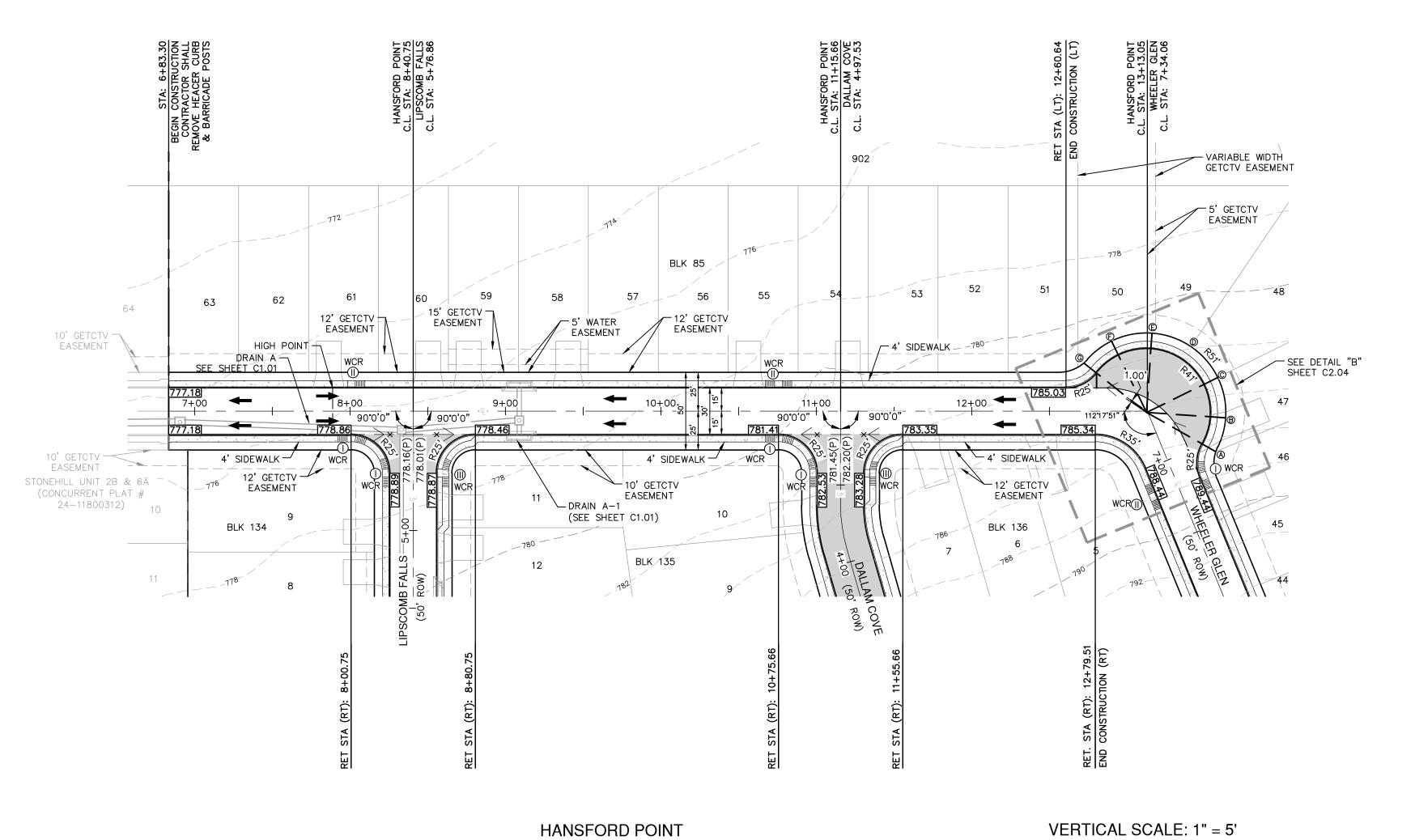
6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).

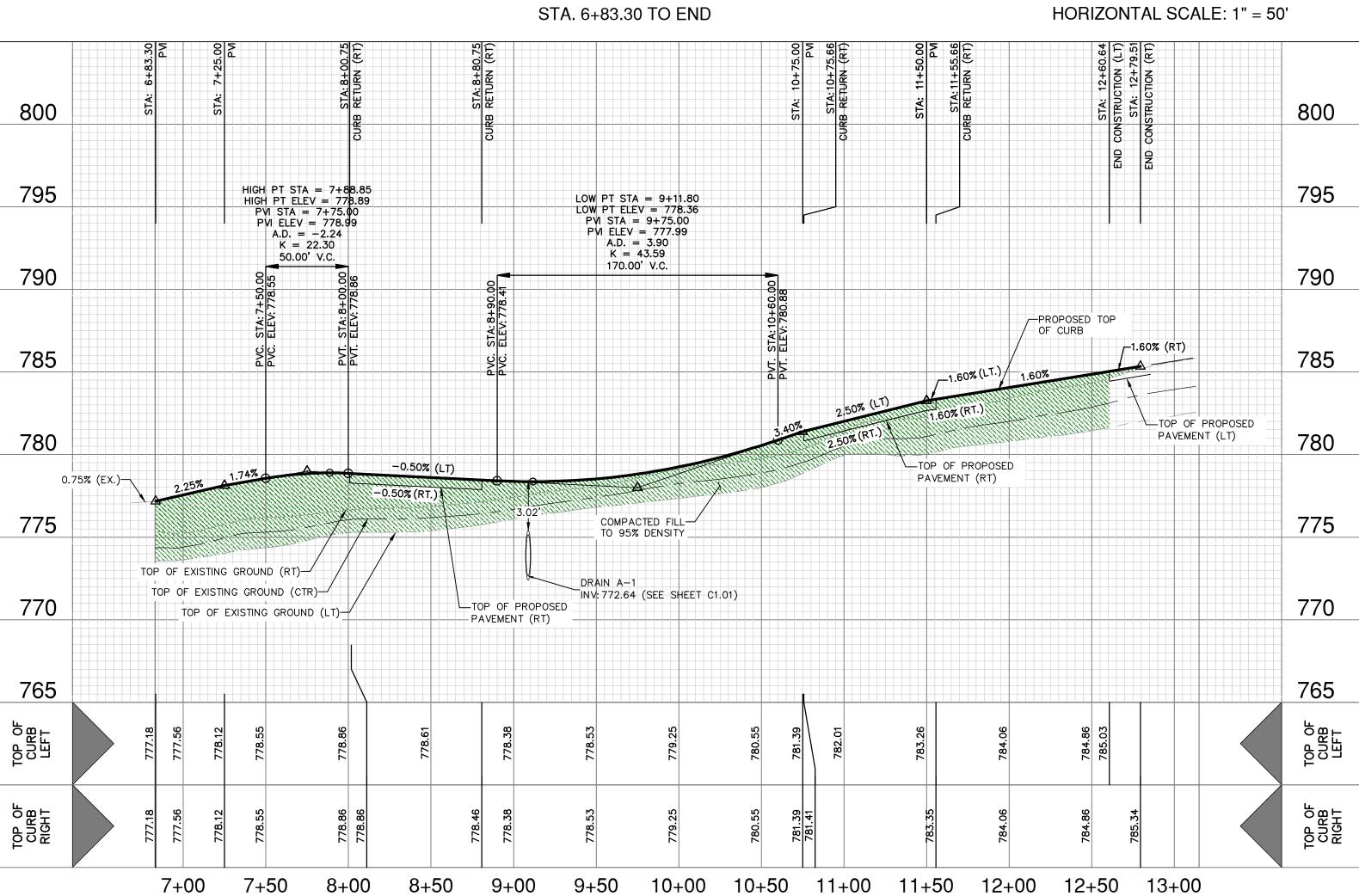
7. THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN.

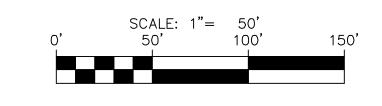
<sub>r NO.</sub> 24-11800437 OB NO. 12456-14 DATE NOVEMBER 2024 DESIGNER

C2.00

HECKED<u>BL</u> DRAWN<u>RG</u>







# STREET LEGEND

DRIVEWAY

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) ×
SIDEWALK BOX	
WASHOUT CROWN SECTION	
SIDEWALK (DEVLOPER'S RESPONSIBILITY)	
SIDEWALK (HOMEOWNER'S RESPONSIBILITY)	
5'X5' PASSING SPACE IN DEVELOPER SIDEWALK	



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NEHILL UNITS 6B SAN ANTONIO, TEXAS

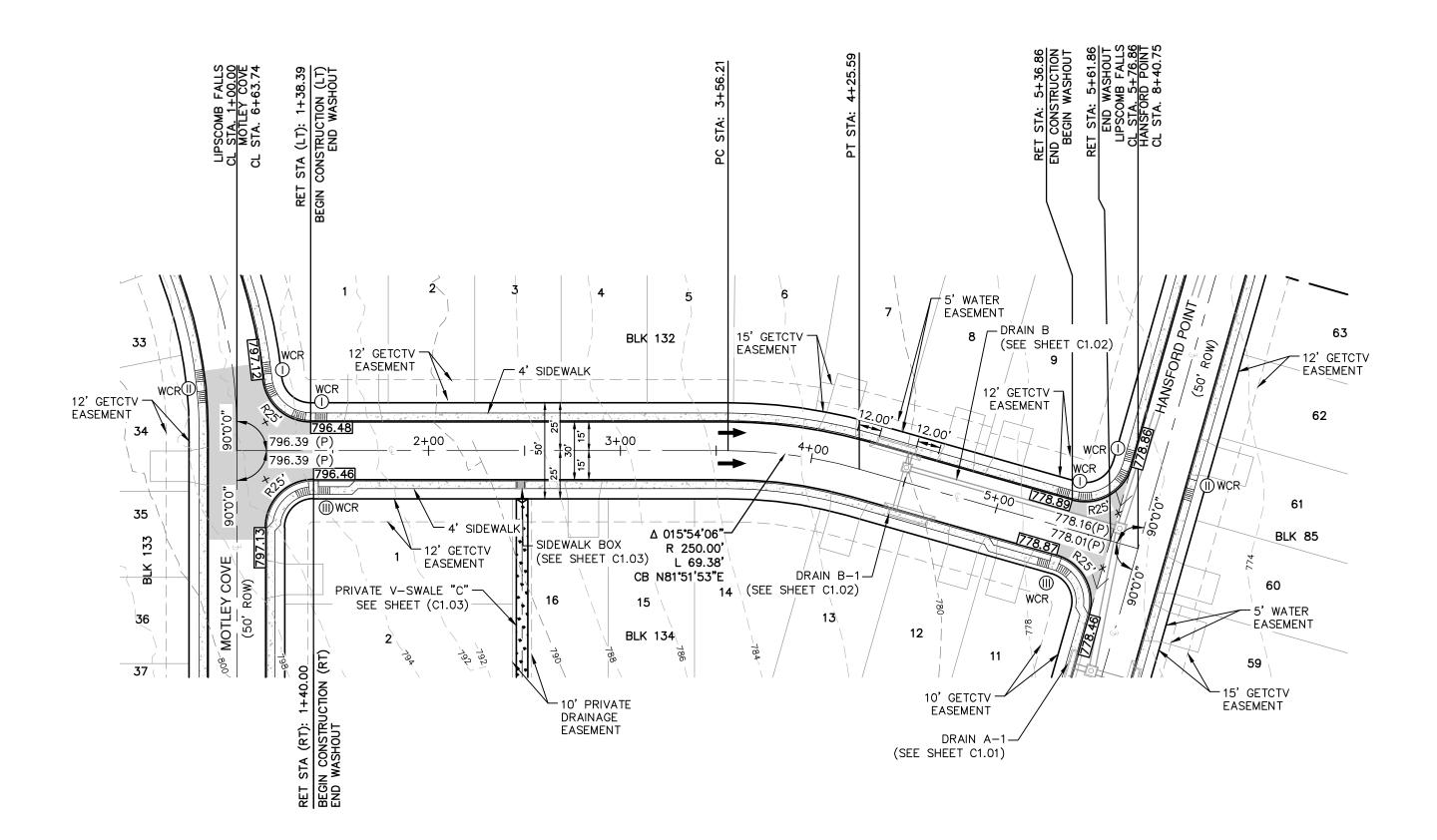
POINT PLAN & PR 6+83.30 TO END)

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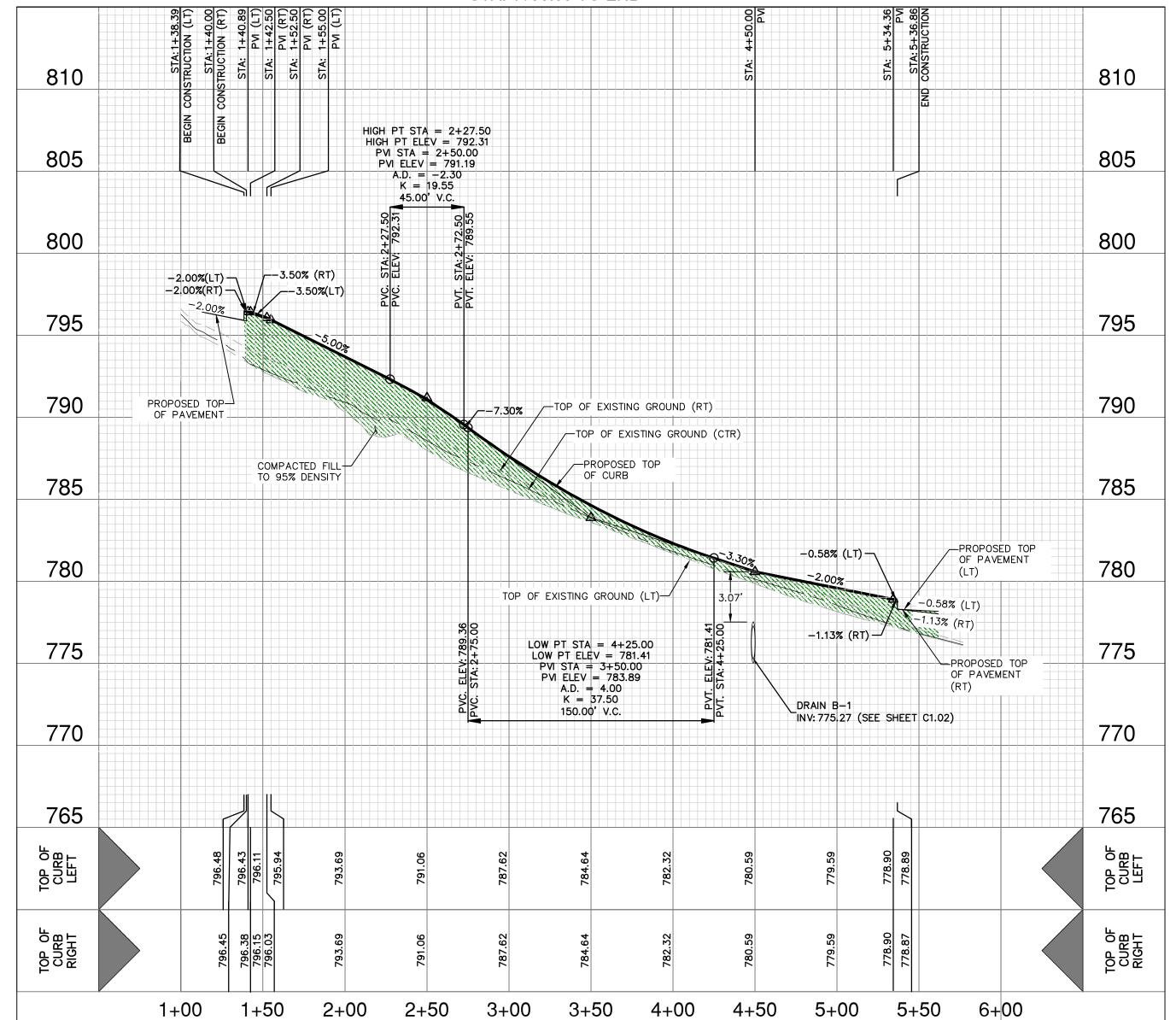
NO 24-11800437 OB NO. 12456-14 ATE NOVEMBER 2024 DESIGNER HECKED<u>BL</u> DRAWN<u>KC</u>

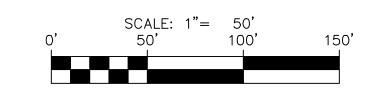
C2.01



LIPSCOMB FALLS STA. 1+38.39 TO END

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





# STREET LEGEND

DRIVEWAY

STREET LEGEND	
PROJECT LIMITS	
MAINTAIN GUTTER	> >
EXISTING CONTOUR	
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
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SIDEWALK BOX	
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SIDEWALK (DEVLOPER'S RESPONSIBILIT	Y)
SIDEWALK (HOMEOWNER'S RESPONSIBIL	LITY)
5'X5' PASSING SPACE IN DEVELOPER	SIDEWALK



NEHILL UNITS 6B SAN ANTONIO, TEXAS

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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 TH 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.

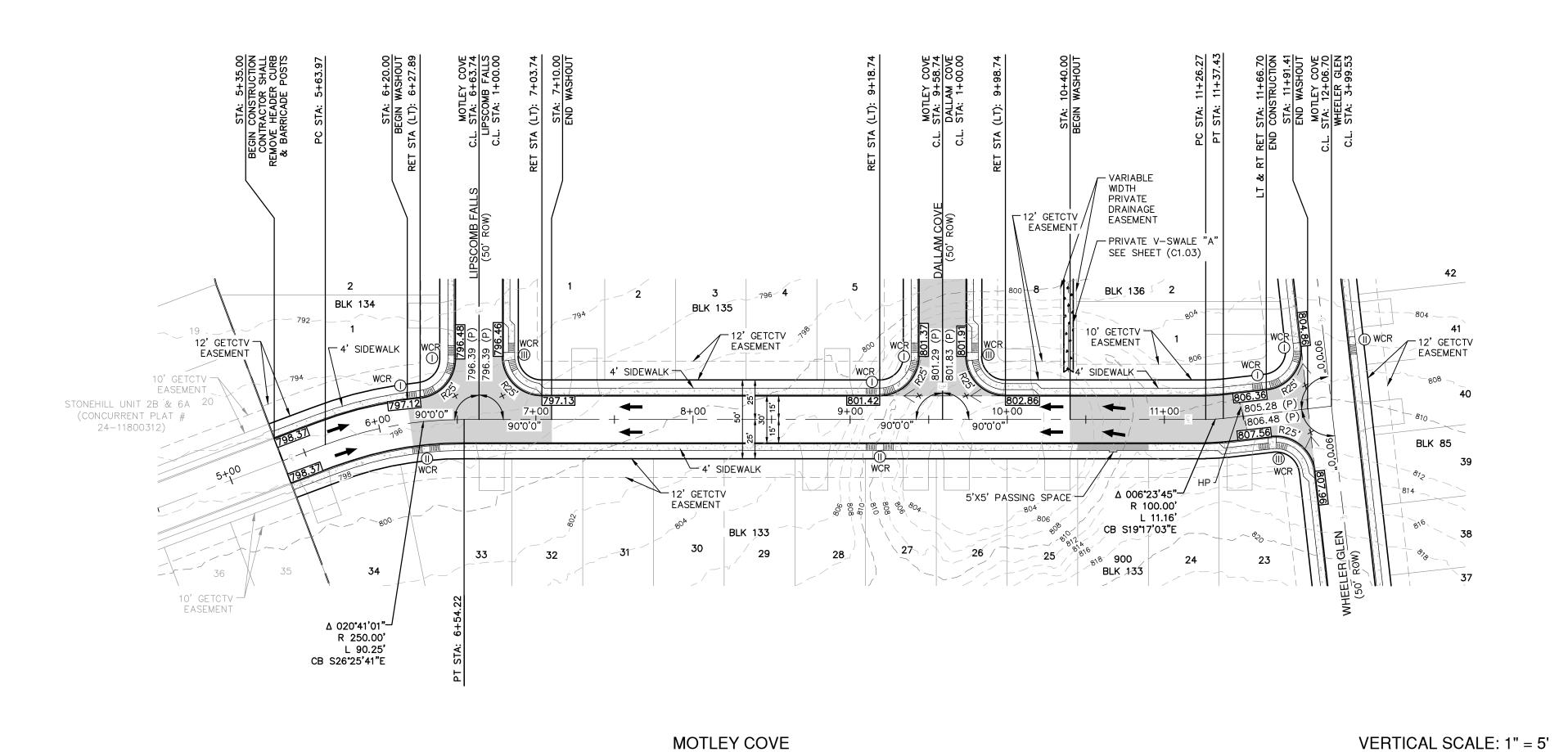
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24-11800437 OB NO. 12456-14 DATE NOVEMBER 2024 DESIGNER

> HECKED<u>BL</u> DRAWN<u>KC</u> C2.02



STA. 5+35.00 TO END

RT. HIGH PT STA = 11+52.88
RT. HIGH PT ELEV = 807.64 820 RT. PVI ELEV = 807.81 RT. A.D. = -3.90 RT. K = 19.23 75.00' V.C. (RT.) 815 RT. HIGH PT STA = 5+14.15 RT. HIGH PT ELEV = 798.46 RT. PVI STA = 5+15.00□ C −0.50% (RT) RT. PVI ELEV = 798.59RT. A.D. = -2.07RT. K = 24.15 3.40% (RT) \_\_\_\_2.00% (RT) 50.00' V.C. (RT.) TOP OF EXISTING GROUND (RT) 805 3.30% (RT) TOP OF EXISTING └──2.00%(LT) GROUND (CTR) └──0.75% (LT) 1.85% (RT) -COMPACTED FILL TO 95% DENSITY **/**−−2.00% COMPACTED FILL -0.50% (RT.) 0.50% (RT.) PROPOSED TO 95% DENSITY PROPOSED CURB PAVEMENT (LT) LT. HIGH PT STA = 11+47.71TOP OF EXISTING (LT.) LT. HIGH PT ELEV = 806.48 GROUND (LT) LT. PVI STA = 11+25.00LT. PVI ELEV = 806.70 TOP OF PROPOSED LT. A.D. = -3.80COMPACTED FILL— COMPACTED FILL— COMPACTED FILL— COMPACTED FILL— PAVEMENT (LT) LT. K = 19.72 75.00' V.C. (LT.) LT. HIGH PT STA = 5+14.15LT. HIGH PT ELEV = 798.46 LT. PVI STA = 5+15.00 LT. PVI ELEV = 798.59 LT. LOW PT STA = 6+65.00 LT. LOW PT ELEV = 796.94 LT. A.D. = -2.07LT. PVI STA = 6+65.00LT. K = 24.15 50.00' V.C. (LT.) LT. PVI ELEV = 796.68 LT. A.D. = 2.30 LT. K = 39.13 90.00' V.C. (LT.) TOP OF CURB LEFT

9+00

9+50

8+50

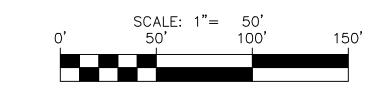
8+00

10+00 10+50 11+00 11+50 12+00 12+50

TOP OF CURB RIGHT

6+50

7+00



# STREET LEGEND

DRIVEWAY

HORIZONTAL SCALE: 1" = 50'

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 857.00(P) × PAVEMENT ELEVATION SIDEWALK BOX WASHOUT CROWN SECTION SIDEWALK (DEVLOPER'S RESPONSIBILITY) SIDEWALK (HOMEOWNER'S RESPONSIBILITY) 5'X5' PASSING SPACE IN DEVELOPER SIDEWALK



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NEHILL UNITS 6B SAN ANTONIO, TEXAS

0V 5+3

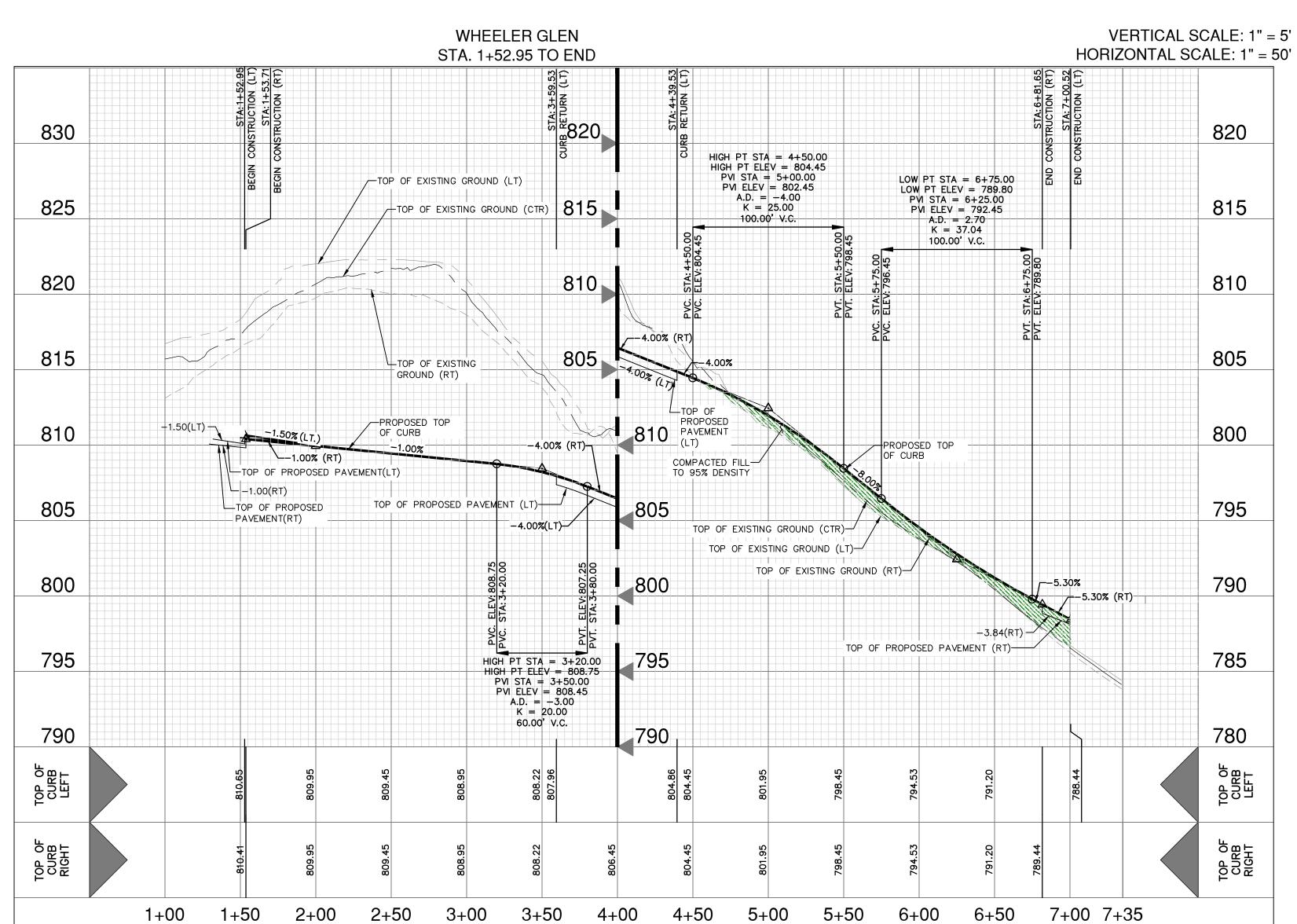
# STREET NOTES:

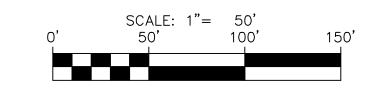
ADJACENT TOP OF PAVEMENT.

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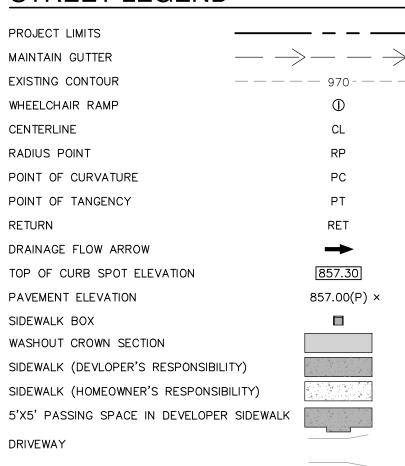
24-11800437 OB NO. 12456-14 ATE NOVEMBER 2024 DESIGNER HECKED<u>BL</u> DRAWN<u>KC</u>

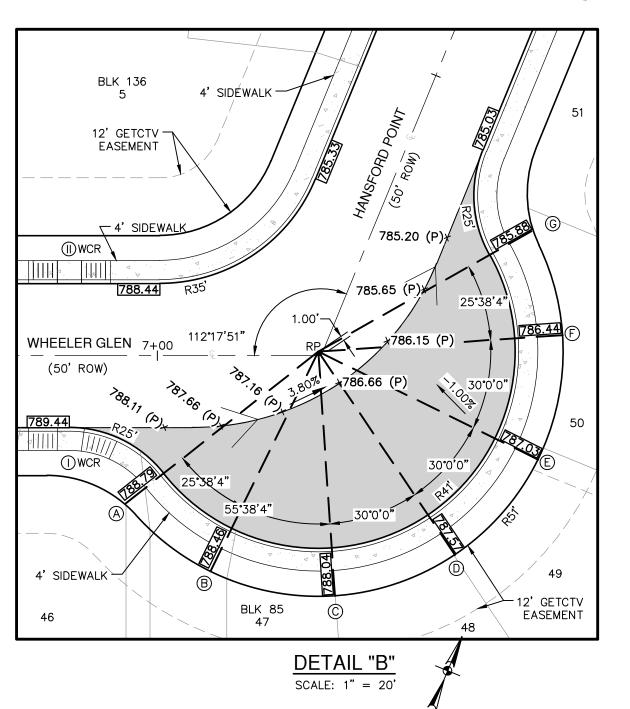
C2.03





# STREET LEGEND





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STONEHILL UNITS 6B
SAN ANTONIO, TEXAS
WHEELER GLEN PLAN & PROF
(STA. 1+52.95 TO END)

CALEB M. CHANCE

PLAT NO. 24-11800437

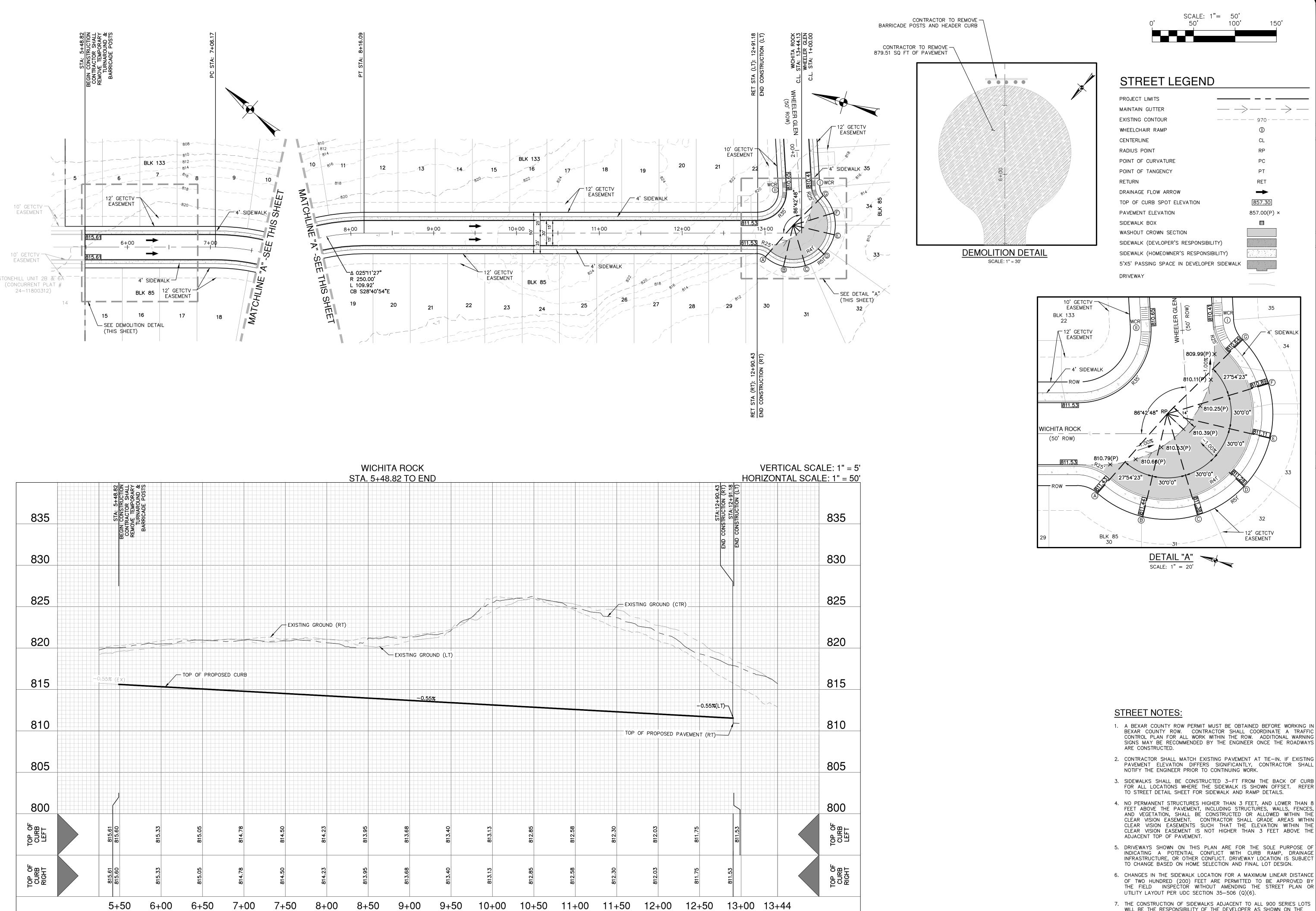
JOB NO. 12456-14

DATE NOVEMBER 2024

DESIGNER CR

CR
CHECKED BL DRAWN KC
SHEET

C2.04



RET 857.30 857.00(P) ×

12' GETCTV

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NEHILL UNITS 6B SAN ANTONIO, TEXAS WICHITA ROC (STA. 5+

CK 148

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CALEB M. CHANCE

<sub>r NO.</sub> 24-11800437 OB NO. 12456-14 DATE NOVEMBER 2024 DESIGNER HECKED<u>BL</u> DRAWN<u>KC</u>

C2.05

PAVEMENT SECTION DETAIL									
STREET NAME	STATION	TYPE "D" HMAC	TYPE "C" HMAC	TYPE "B" HMAC	CRUSHED LIMESTONE BASE	STABILIZED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NUMBER
DALLAM COVE	1+40.00 TO END	2"	*	*	10"	8"	NO	2	2.92
LIPSCOMB FALLS	1+38.89 TO END	2"	*	*	10"	8"	NO	2	2.92
HANSFORD POINT	6+83.30 TO END	2"	*	*	10"	8"	NO	2	2.92
WHEELER GLEN	1+52.95 TO END	2"	*	*	10"	8"	NO	2	2.92
WICHITA ROCK	5+48.82 TO END	2"	*	*	10"	8"	NO	2	2.92
MOTLEY COVE	5+35.00 TO END	2"	*	*	10"	8"	NO	2	2.92

# **GENERAL NOTES:**

- CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORTS PREPARED BY INTEC DATED 01/31/2024 (INTEC PROJECT# S231361) Subsurface Exploration and Pavement Analysis, Proposed New Streets, Stonehill, Units 2B. 4A, 6A, 6B, 8, 9.
- 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 REQUIRED.
- 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 PI WITHIN RANGE OF 5 AND 60. 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:

- . CUT AND FILL DATA ARE NOT AVAILABLE AT THIS TIME
- 2. FILL USED TO RAISE THE GRADE: •APPROVED FILL MATERIAL FREE SHOULD HAVE A MINIMUM CBR VALUE OF 2.0 AND A MAXIMUM PLASTICITY INDEX VALUE OF 60 (ON SITE MATERIAL). LIME APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL.
- •THE FILL MATERIAL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER, FREE OF DELETERIOUS MATERIAL, AND THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN SIZE. THE MATERIAL SHOULD BE PLACED AND COMPACTED AS PER APPLICABLE CITY / COUNTY GUIDELINES.
- •THE SUBGRADE, PRIOR TO PLACEMENT OF FILL, SHOULD BE PROOF ROLLED TO IDENTIFY WEAK AREAS. ANY IDENTIFIED WEAK AREAS SHOULD BE RECOMPACTED.
- 3. BASED ON THE THICKNESS OF THE CLAYS ENCOUNTERED IN THE BORINGS, WE ANTICIPATE THE FINAL PAVEMENT SUBGRADE PLASTICITY INDEX VALUE TO BE GREATER THAN 20. AS PER BEXAR COUNTY/CITY OF SAN ANTONIO REQUIREMENTS, SUBGRADE STABILIZATION IS NEEDED WHEN THE PLASTICITY INDEX VALUES ARE GREATER THAN 20.
- 4. IF THE SUBGRADE PLASTICITY INDEX VALUES ARE LESS THAN OR EQUAL TO 20, AS PER CITY OF SAN ANTONIO OR BEXAR COUNTY REQUIREMENTS, SUBGRADE STABILIZATION IS NOT NEEDED.
- 5. IF THE FINAL STREET SUBGRADE PLASTICITY INDEX VALUES ARE GREATER THAN 20, THEN THE SUBGRADE SHOULD BE STABILIZED.
- STABILIZE THE SUBGRADE:

MINIMUM PASSING NO. 4 SIEVE

- STABILIZED TO A DEPTH OF 8 INCHES USING 8 PERCENT LIME CONTENT.
- THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO STABILIZATION. IF
  THE SOIL SULFATE CONTENT IS HIGHER THAN 3000 PPM, AN ALTERNATE PROCEDURE WILL BE
  NEEDED.

  NEEDED.
- LIME APPLICATION RATE OF 45.5 LBS PER SQ YARD FOR 8-INCH DEPTH OF STABILIZATION IS RECOMMENDED.

# LIME NOTES:

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

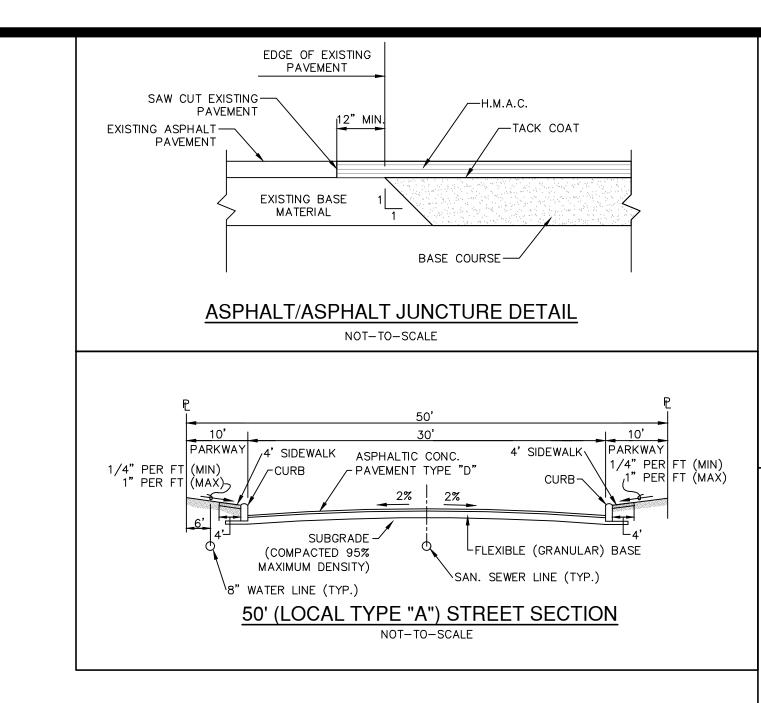
  1. AFTER INITIAL MIXING THE SOIL—LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2—3)
  DAYS. MAINTAIN MOISTURE DURING MELLOWING.
- 2. AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE ¾ INCH SIEVE FROM THE SAMPLE):

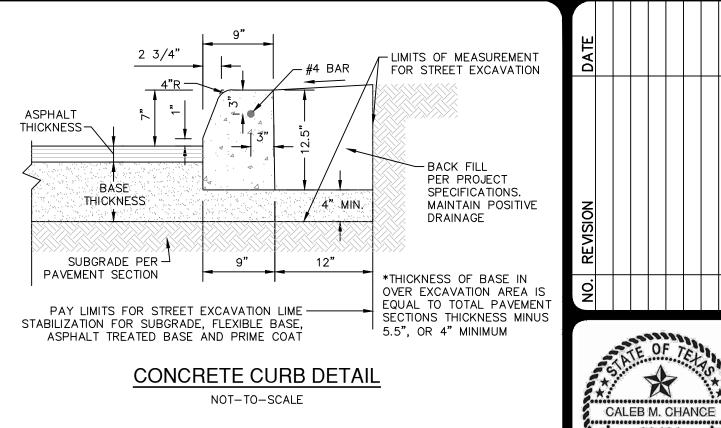
   MINIMUM PASSING ¾ SIEVE 100

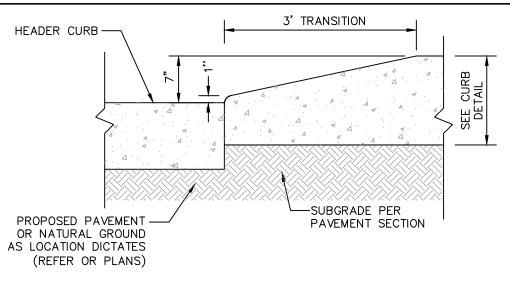
   MINIMUM PASSING ¾ SIEVE 85
- 3. SAMPLE SOIL-LIME MIXTURE FOR DETERMINATION OF MAXIMUM DRY DENSITY (MDD). IN THE LABORATORY, MOLD SPECIMENS TO 95% OF MDD AT OPTIMUM MOISTURE CONTENT AND VERIFY UCS TO BE AT LEAST 160 PSI IN ACCORDANCE WITH PROCEDURE OUTLINED IN THE BEXAR COUNTY FLEXIBLE PAVEMENT DESIGN 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).

IS 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 Orthormagery Program, USDA Farm Service Agency.

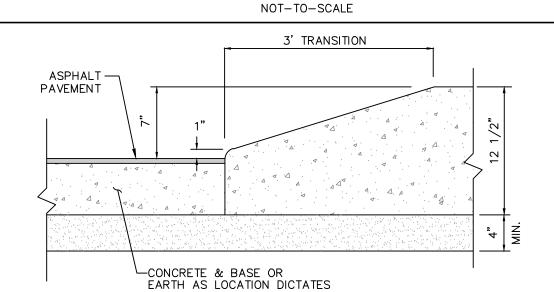
6. VERIFY DEPTH OF LIME STABILIZED LAYER TO DEPTH AS NOTED ON PLAN TO WITHIN  $\pm 1.0$  INCH.



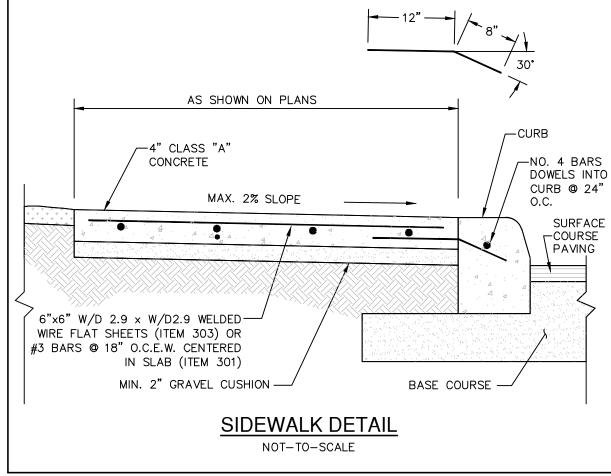




# CURB TRANSITION DETAIL (FROM HEADER CURB TO STANDARD CURB



# CURB TRANSITION DETAIL (FROM PAVEMENT TO STANDARD CURB) NOT-TO-SCALE



# S 6B & 8 XAS

98401

STONEHILL UNITS 6E SAN ANTONIO, TEXAS

PLAT NO. 24-11800437

JOB NO. 12456-14

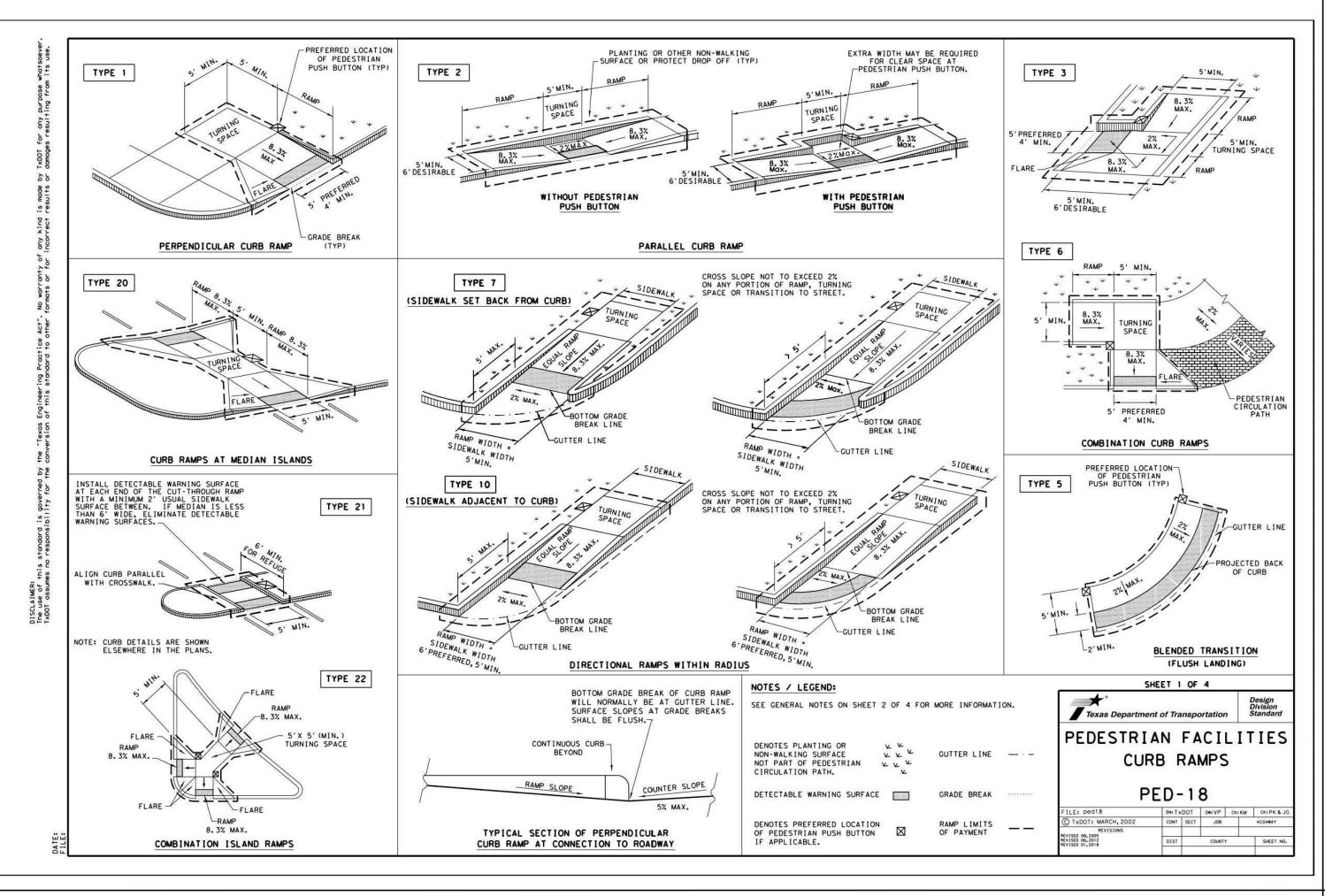
DATE NOVEMBER 2024

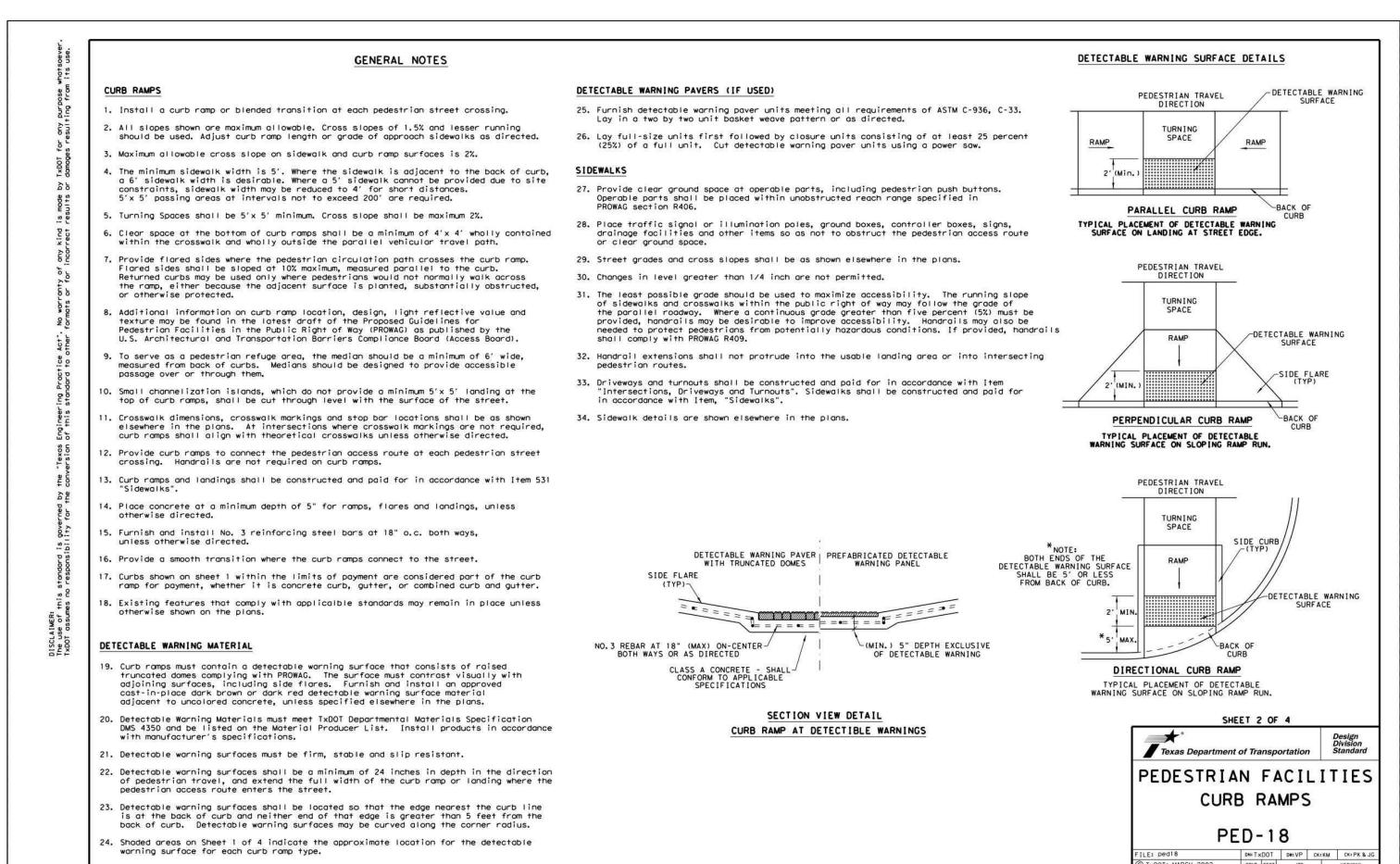
DESIGNER CB

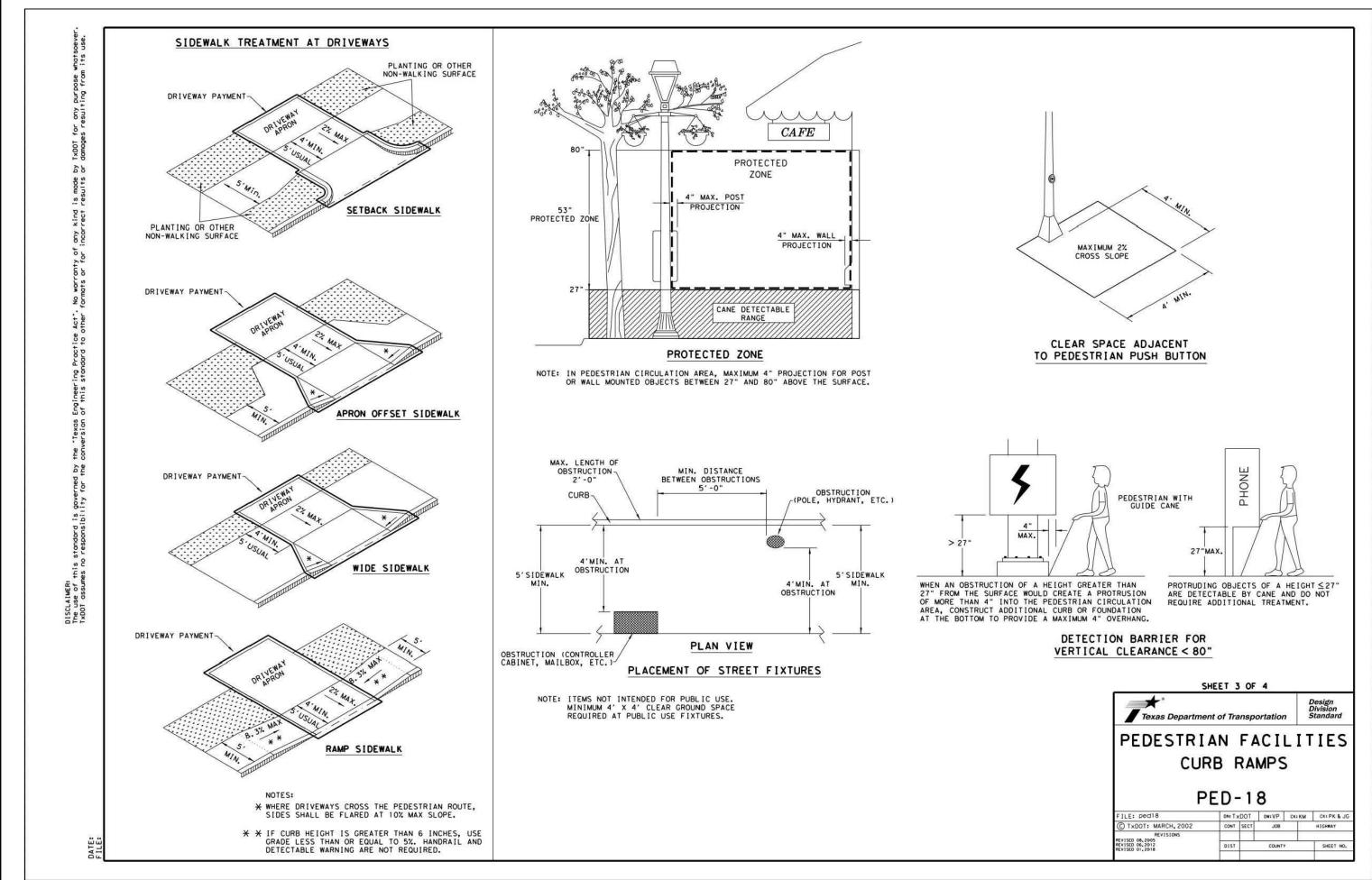
CHECKED BL DRAWN KC

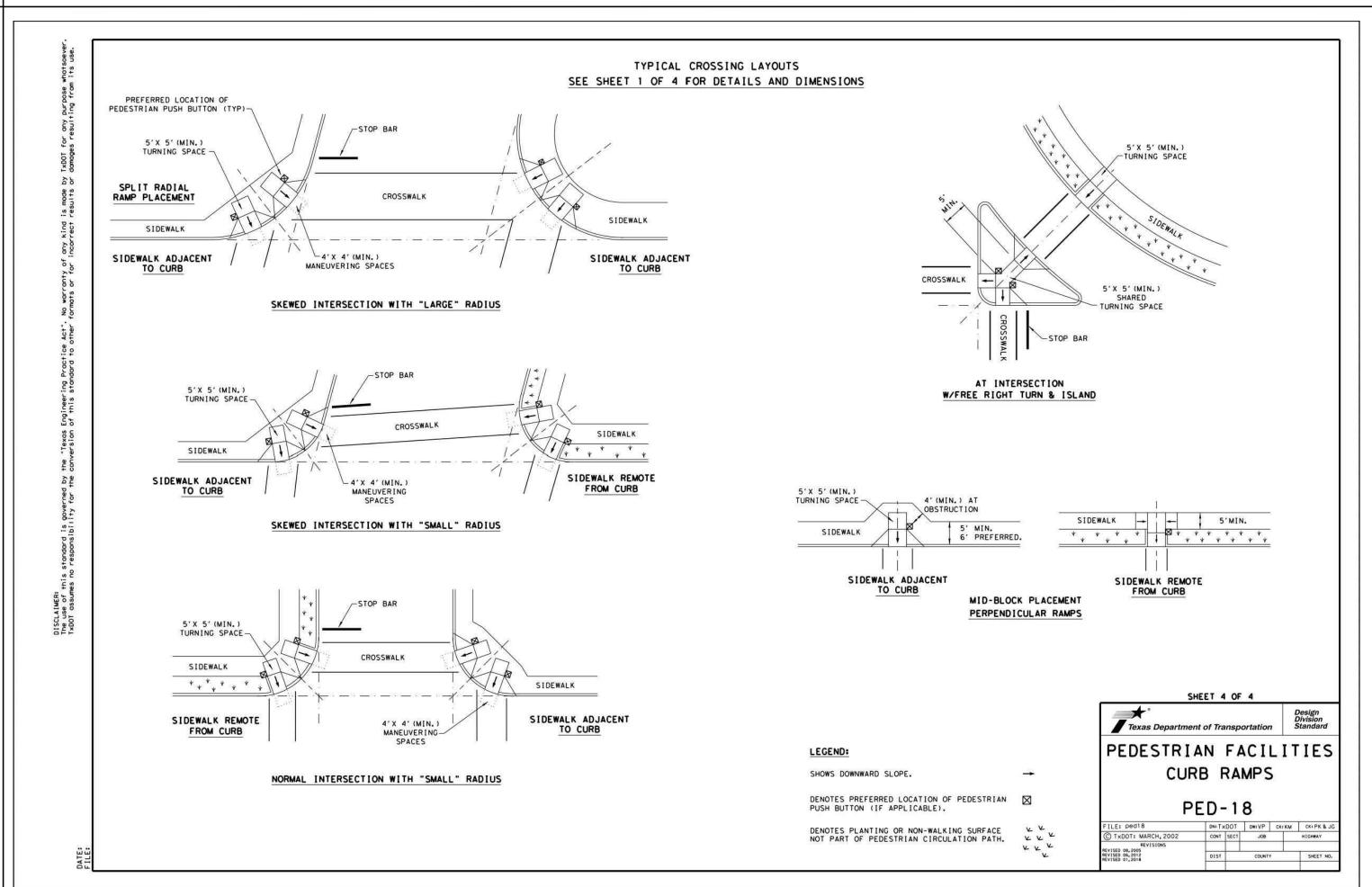
SHEET C2.10

ate: Jan 31, 2025, 8:48am User ID: Richardgarcia





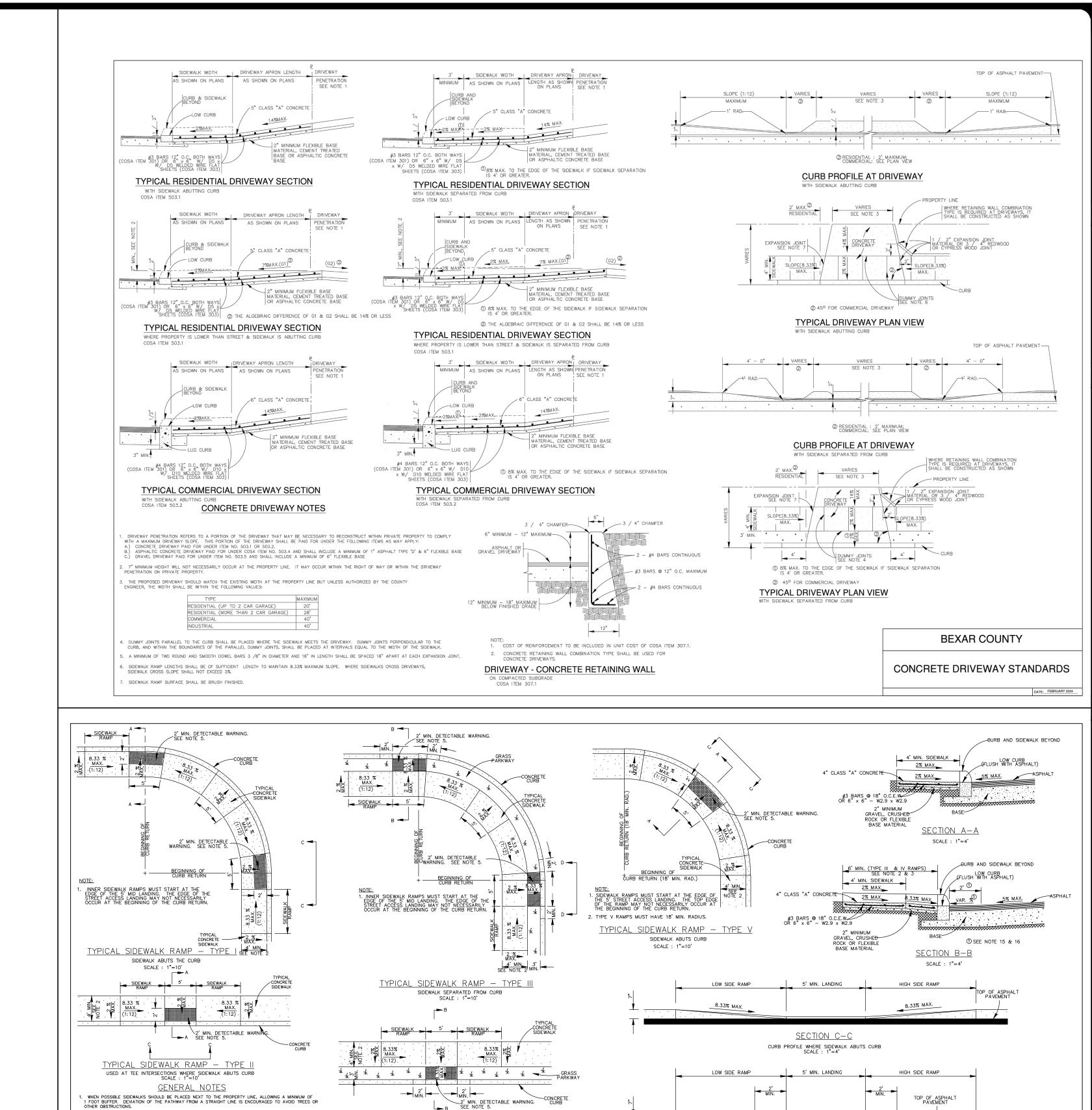




TATELEA TEXAS ENGINEERING FIRM #470 I TEXAS SURVEY

SAN ANTONIO, TEXAS

24-11800437
OB NO. 12456-14
OATE NOVEMBER 2024
DESIGNER CB
CHECKED BL DRAWN KC
CHEFT C2.11



L<sub>-B</sub>

TYPICAL SIDEWALK RAMP - TYPE IV

USED AT TEE INTERSECTIONS WHERE SIDEWALK IS SEPARATED FROM CURB

SCALE : 1"=10'

LANDING OR RAMP WIDTH .

DETECTABLE WARNING SURFACE

SCALE : 1"=4'

DOME SECTION

STREET ACCESS CURB PAVEMENT

<u>PLAN DETAIL</u>

FOR LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 3' FROM THE BACK OF CURB.

4. SIDEWALK RAMP LENGTHS PRESENTED IN TABLE 1 ARE GUIDELINES ONLY. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE.

5. ALL CURB-RAMPS OR LANDINGS ABUTTING THE CROSSWALK SHALL HAVE A DETECTABLE WARNING 24 INCHES DEEP (IN THE DIRECTION OF PEDESTRIAN TRAVEL) AND EXTENDING THE FULL WIDTH OF THE CURB RAMP OR LANDING. THE DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DORS, ALICNED IN A GRID PATTERN WITH A DIAMETER OF A NOMINAL 0.9 INCHES (23 MM), A HEIGHT OF NOMINAL 0.2 INCHES (5 MM) AND A CENTER—TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 MM). THE DETECTABLE WARNING SURFACE SHALL BE PAVERS CONFORMING TO TXDOT STANDARD PED—05, PEDESTRIAN FACILITIES.

DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT—ON—DARK,
OR DARK—ON—LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE
WALKING SURFACE.

9. THESE DETAILS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS OF WHEELCHAIR RAMPS TO BE SHOWN ON CONSTRUCTION PLANS. CITY CONSTRUCTION INSPECTOR CAN ADJUST LOCATIONS FOR SAFETY OR UTILITY CLEARANCE.

10. SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.

11. WHEELCHAIR RAMP SHALL BE CONSTRUCTED WITH 4" CLASS "A" CONCRETE AND 2" MINIMUM GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL.

13. SIDEWALK GRADES SHALL NOT EXCEED THE GRADE ESTABLISHED FOR THE ADJACENT ROADWAY, ANY SIDEWALK CONSTRUCTION THAT DEVIATES FROM THE NATURAL GRADE OF THE ROADWAY TO CREATE A GRADE STEEPER THAN THE EXISTING ROADWAY WILL REQUIRE RAMPS, HANDRAILS AND RESTING PLATFORMS TO BE CONSTRUCTED IN ACCORDANCE WITH ADA AND TAS STANDARDS.

14. SIDEWALK CROSS GRADE SHALL HAVE A MAXIMUM SLOPE OF 2% LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.

15. THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES SHALL BE LESS THAN 11%. THE CHANGE OF GRADE SHALL BE DEFINED AS THE ALGEBRAIC DIFFERENCE OF THE ADJACENT SURFACE SLOPES. IN THE CASE OF A STREET ACCESS RAMP DESIGNED AT THE 8.33% MAXIMUM SLOPE, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN 2.67% (I.E. 8.33-(-2.67)=11). IN ADDITION, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 5%.

16. IF THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES IS GREATER THAN OR EQUAL TO 11%, A LEVELING STRIP, 2 FEET IN LENGTH, SHALL BE PROVIDED TO TRANSITION THE ADJACENT SURFACES.

17. ADA COMPLIANCE IN ALTERATIONS INCLUDE ONLY THAT WORK WITHIN THE LIMITS, BOUNDARIES OR SCOPE

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.

12. REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C.E.W. OR 6" x 6" - W2.9 x W2.9 WIRE MESH.

B. CONSTRUCTION OF ALL WHEELCHAIR RAMPS TO BE INCLUDED UNDER ITEMS "500 — CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER" AND / OR "502 — CONCRETE SIDEWALKS". RAMP SURFACE SHALL BE BRUSH

7. SIDEWALK RAMP TYPE V SHALL BE USED ONLY WHERE THERE IS SIGNIFICANT RESTRICTION WITHIN THE PARKWAY TO CONSTRUCT TYPE I OR TYPE III RAMPS.

3. FOR OTHER THAN LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4" AND SEPARATED A MINIMUM OF 3" FROM THE BACK OF CURB OR AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6" WHEN LOCATED AT THE BACK OF CURB.

ONEHILL UNI
SAN ANTONIO, -

SIDEWALK RAMP LENGTH (1:12)

LOW SIDE HIGH SIDE

5'-6" 7'-2"

5'-0" 8'-4"

 2%
 5'-0"
 8'-4"

 3%
 4'-6"
 10'-0"

 4%
 4'-2"
 12'-6"

 5%
 3'-10"
 16'-8"

MAY 2009

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

WHEELCHAIR RAMP STANDARDS

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

CITY OF SAN ANTONIO

GUTTER SLOPE

SECTION D-D

CURB PROFILE WHERE SIDEWALK IS SEPARATED FROM CURB SCALE : 1"=4'

SIDEWALK PASSING SPACE

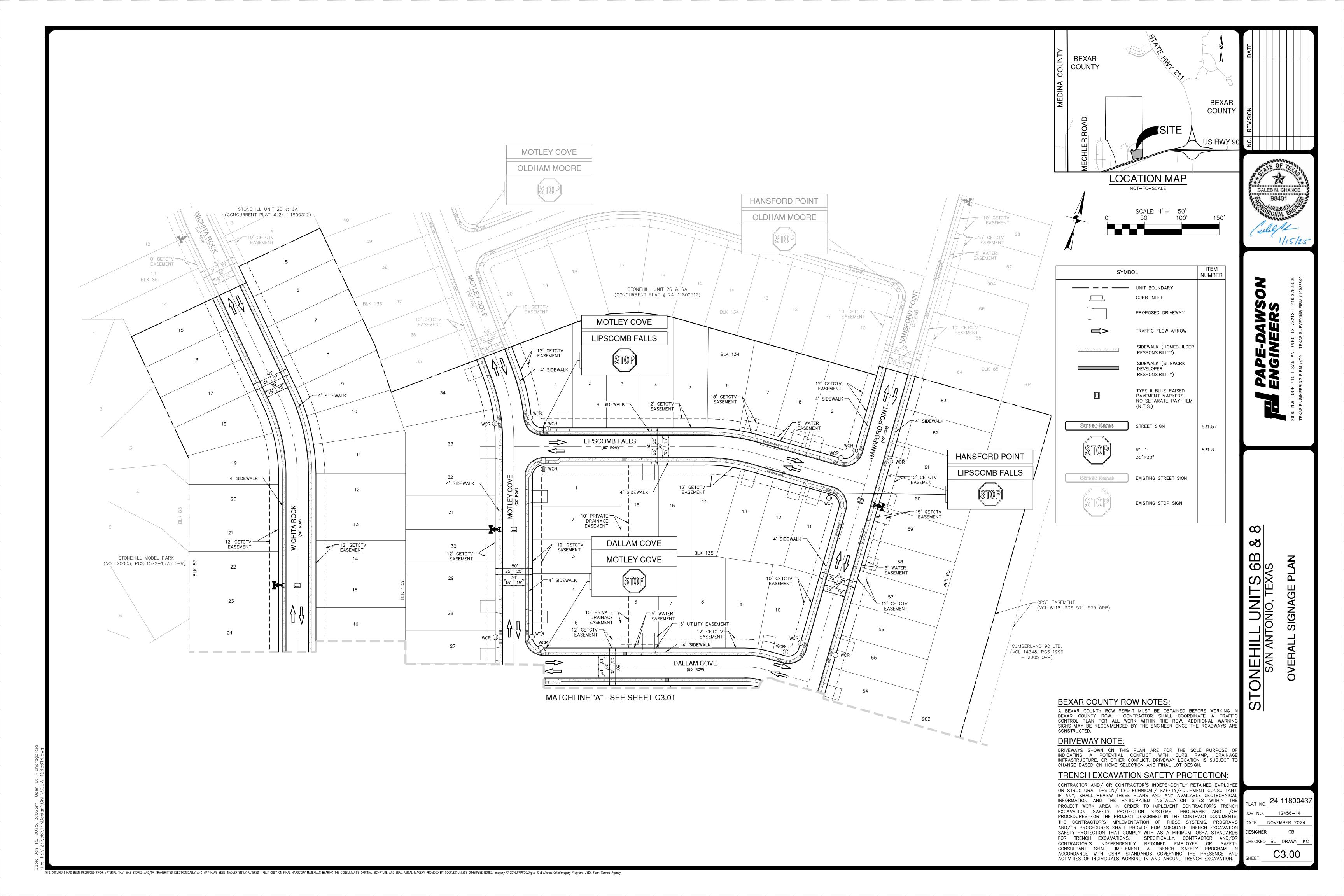
SCALE : 1"=10'

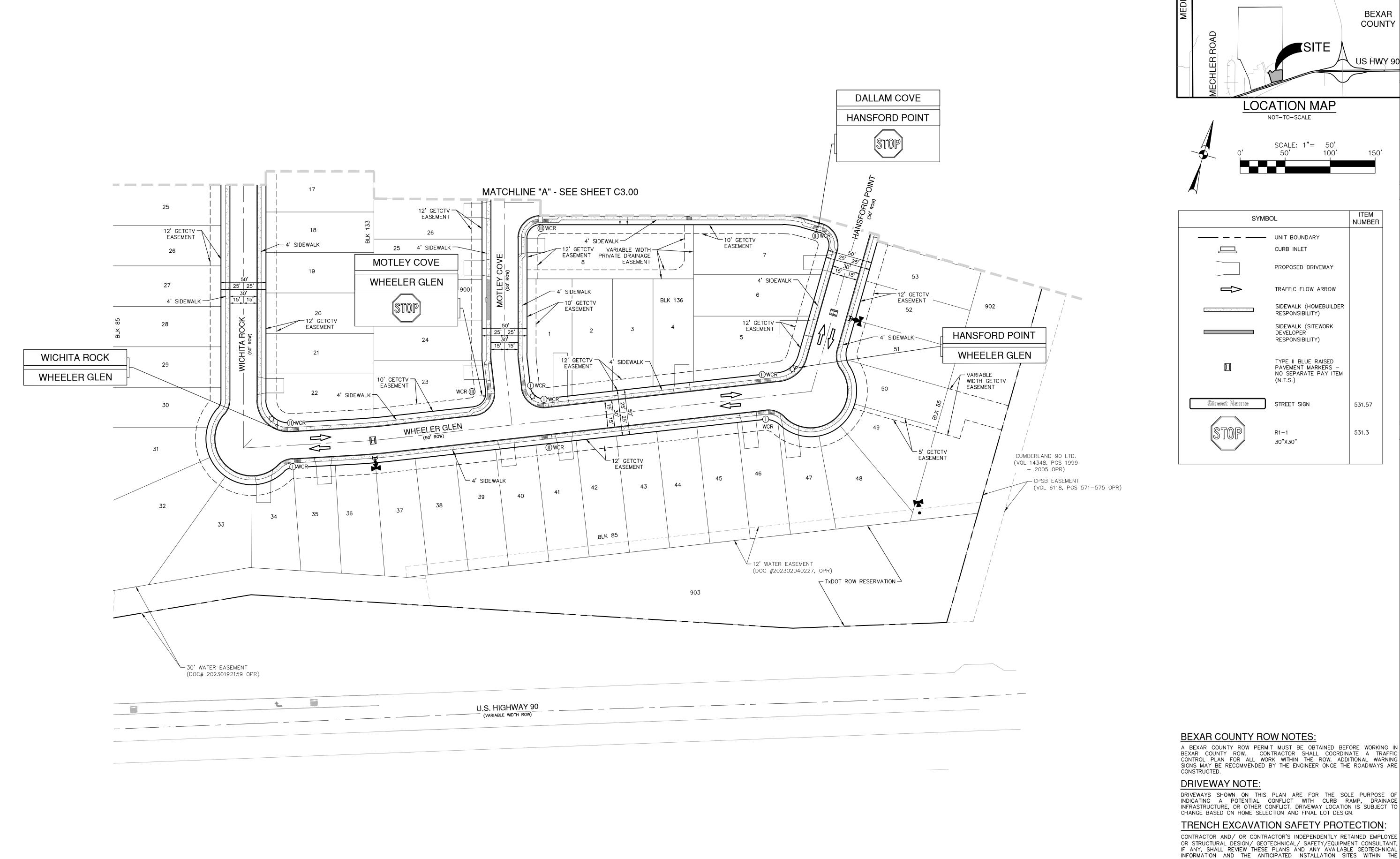
CALEB M. CHANCE

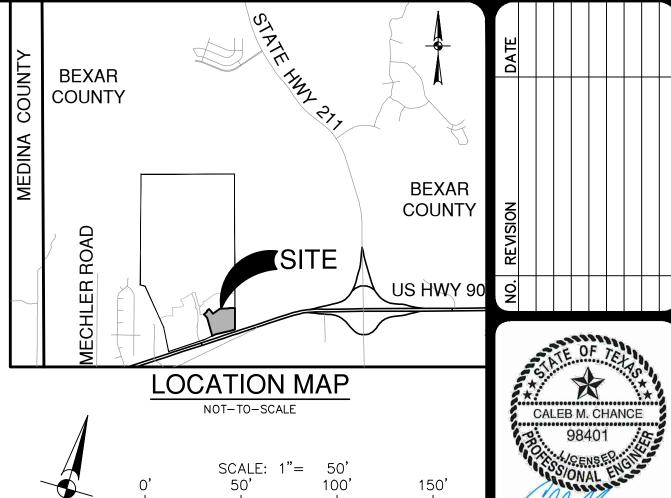
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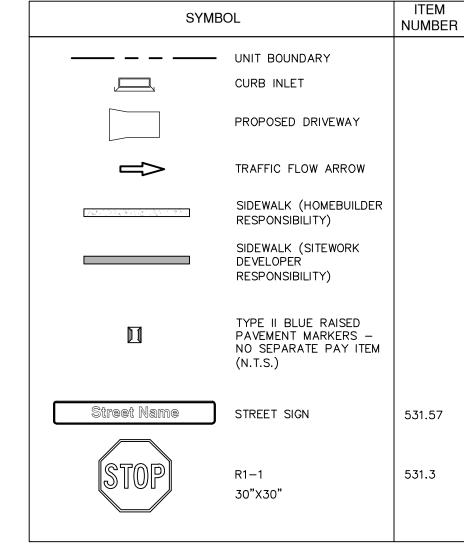
T NO. 24-11800437 JOB NO. 12456-14 ATE NOVEMBER 2024 ESIGNER CHECKED BL DRAWN KC

C2.12









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.

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

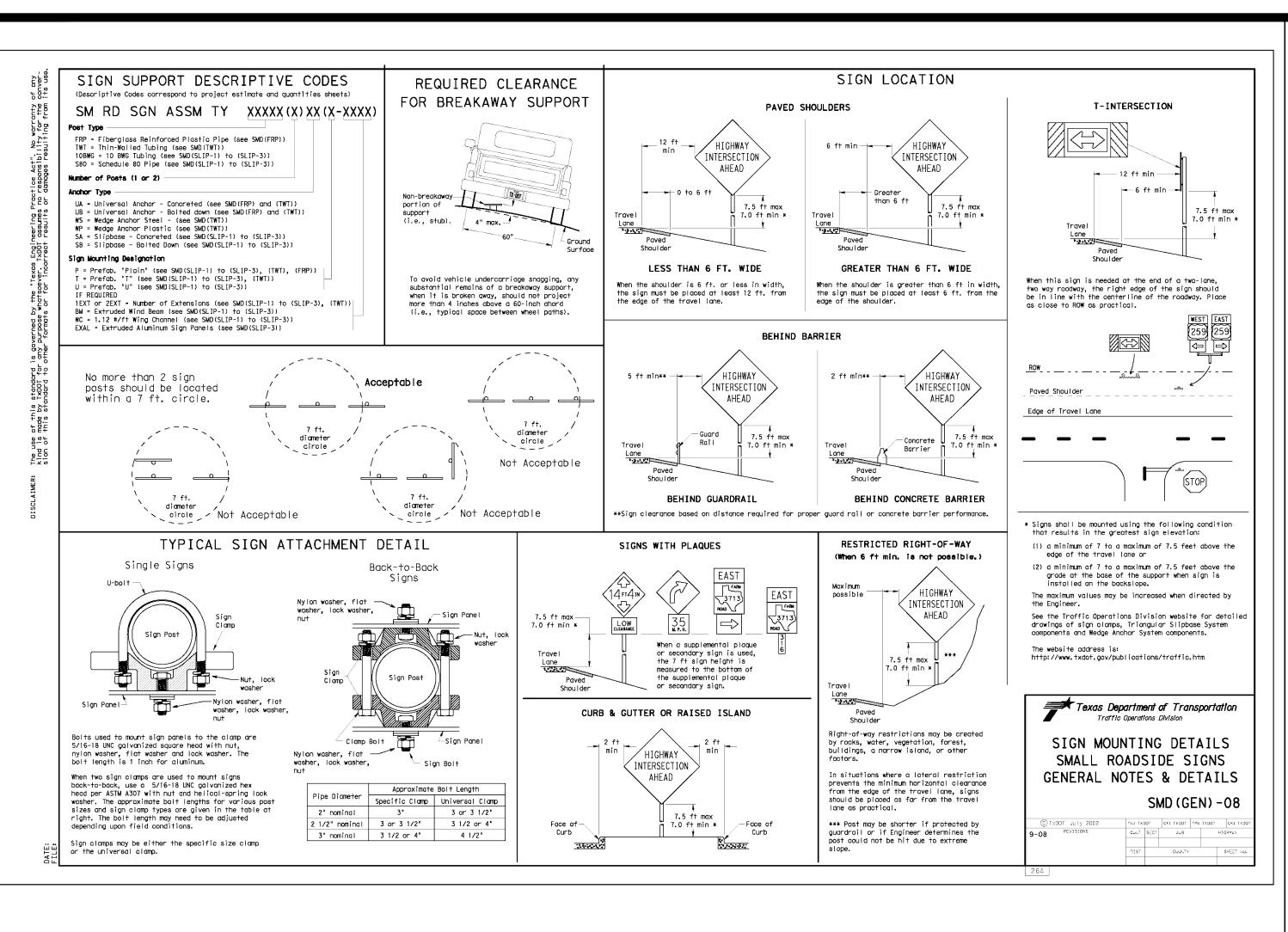
ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

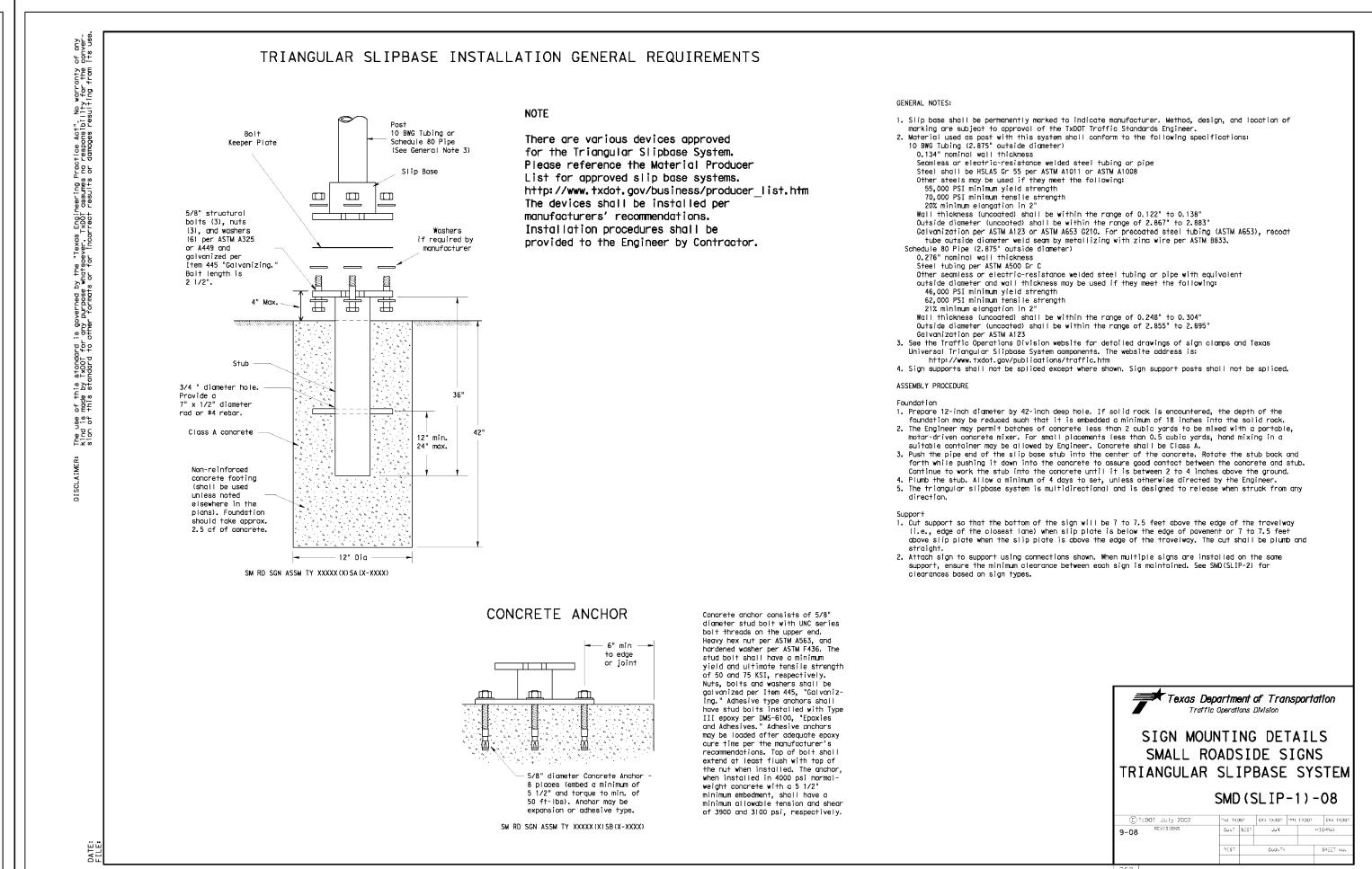


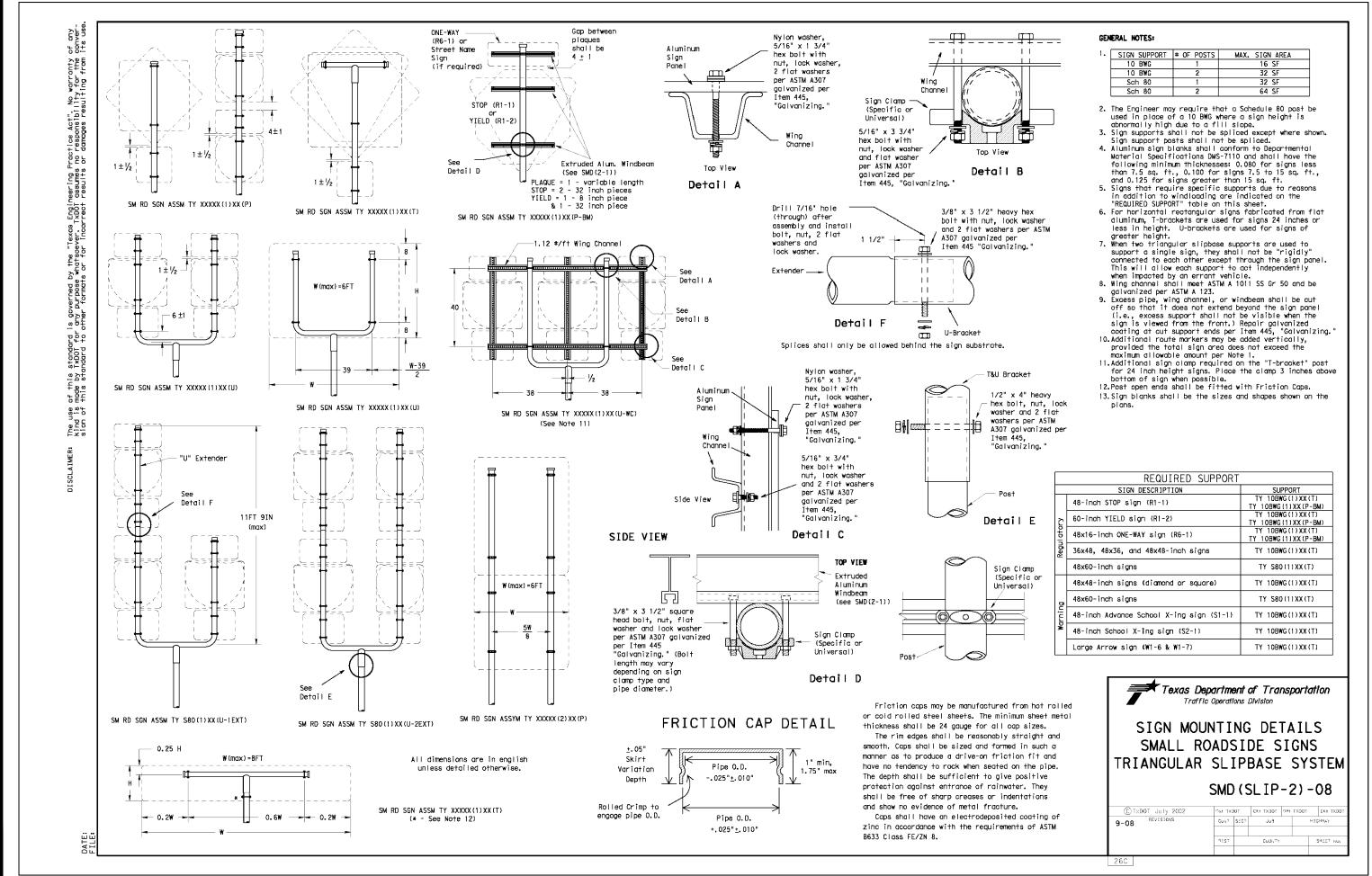
ONEHILL UNITS 6
SAN ANTONIO, TEXAS

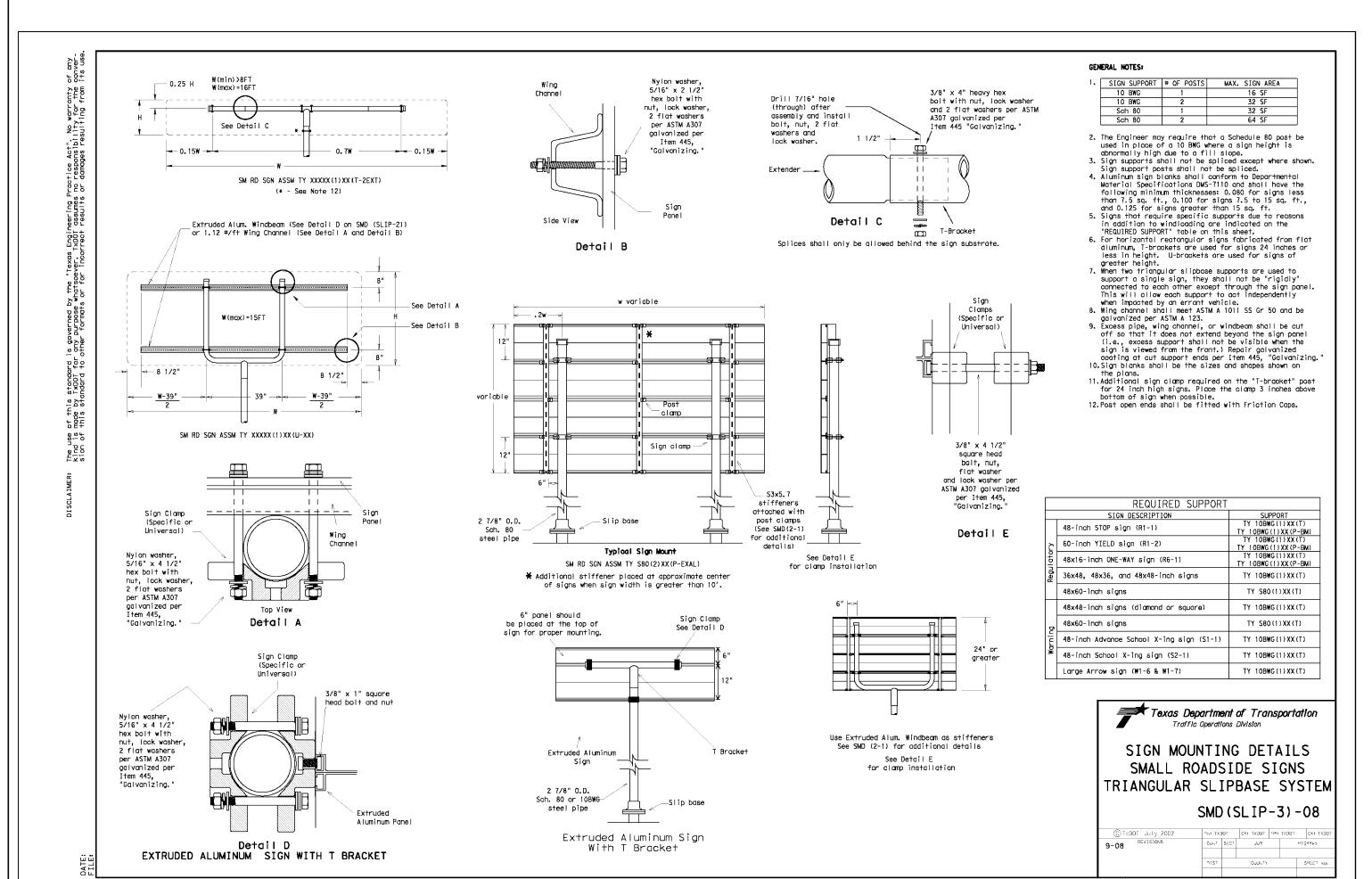
PLAT NO. 24-11800437 JOB NO. 12456-14 THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS DATE NOVEMBER 2024 DESIGNER CHECKED BL DRAWN KC

C3.01









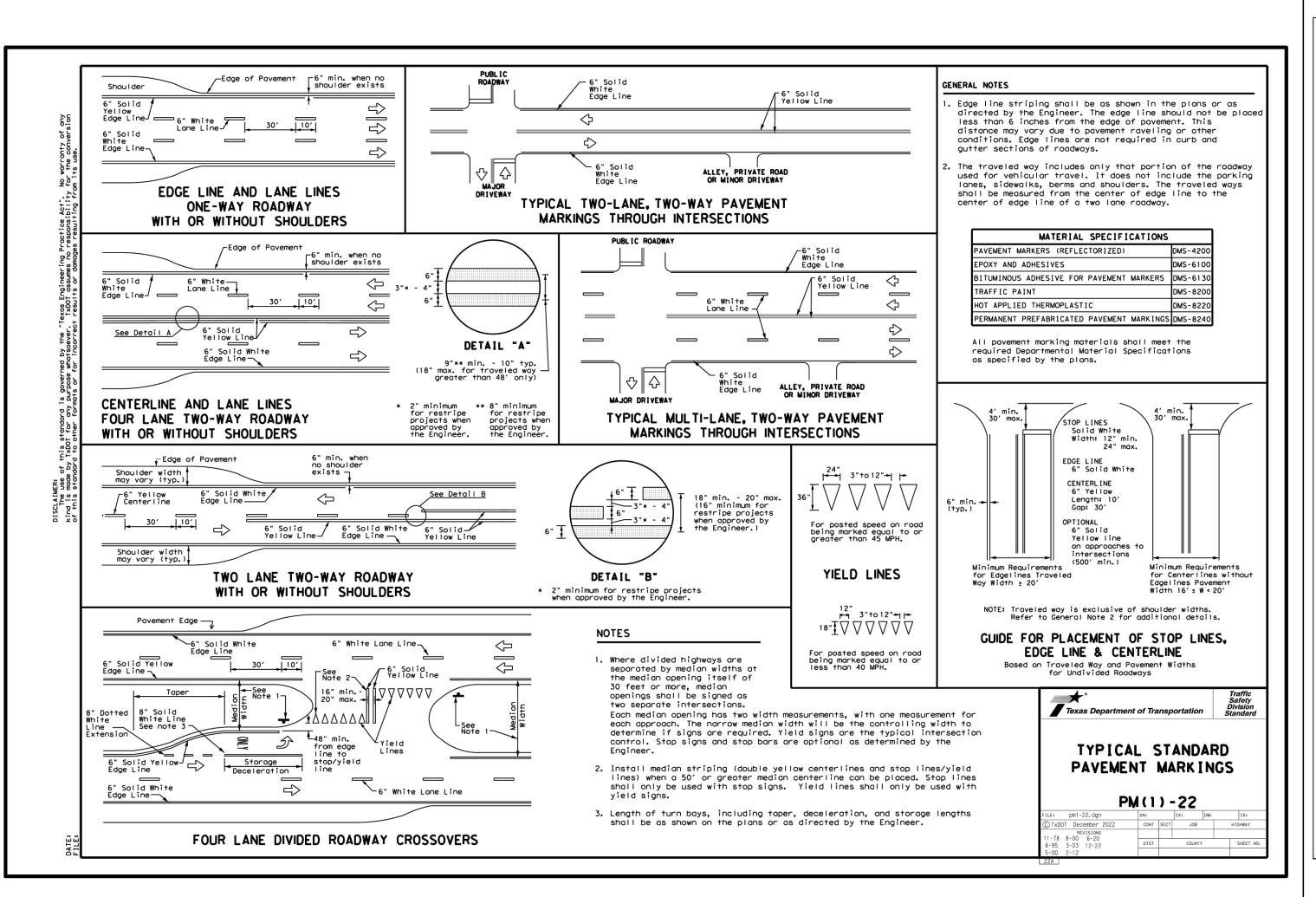


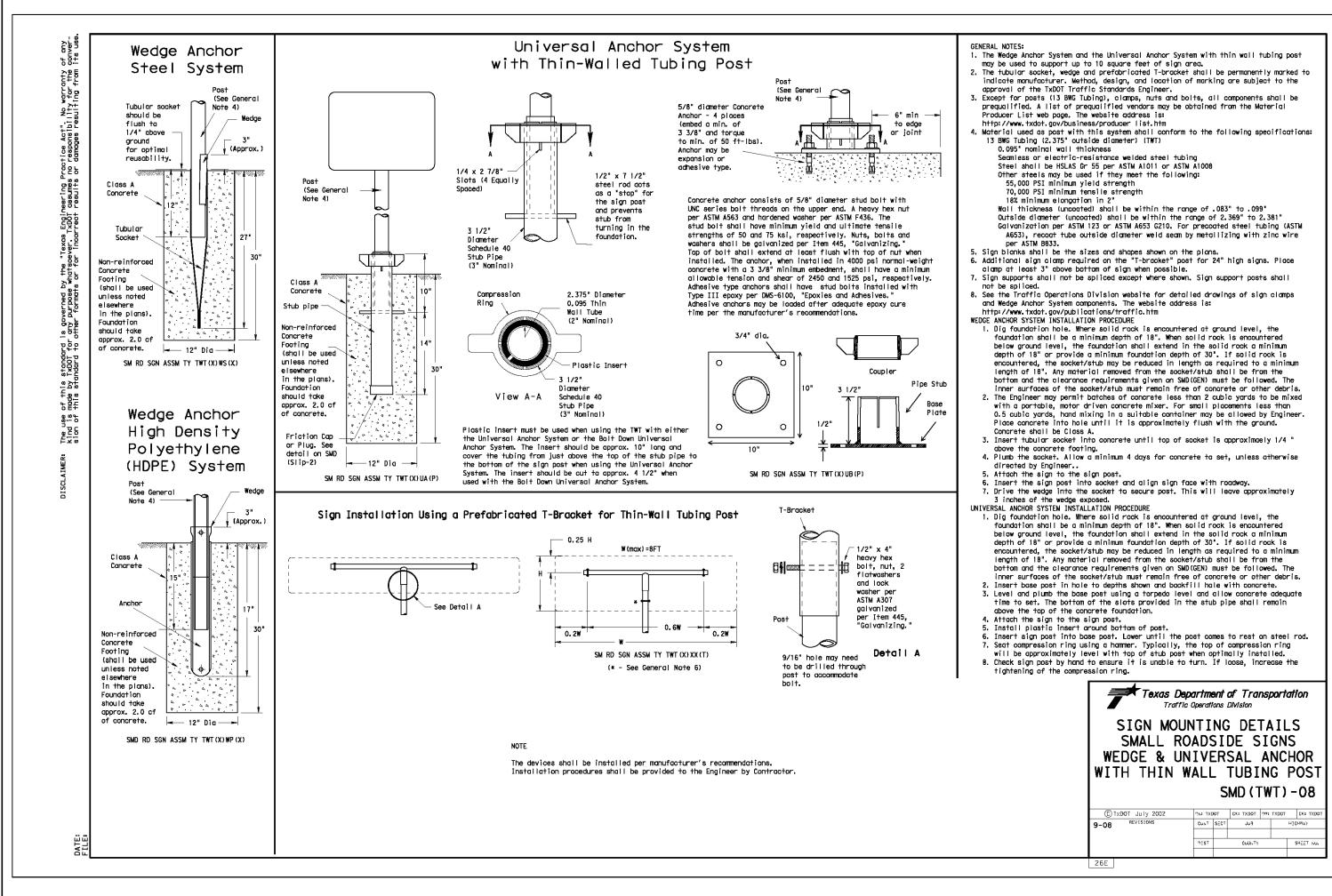
CALEB M. CHANCE

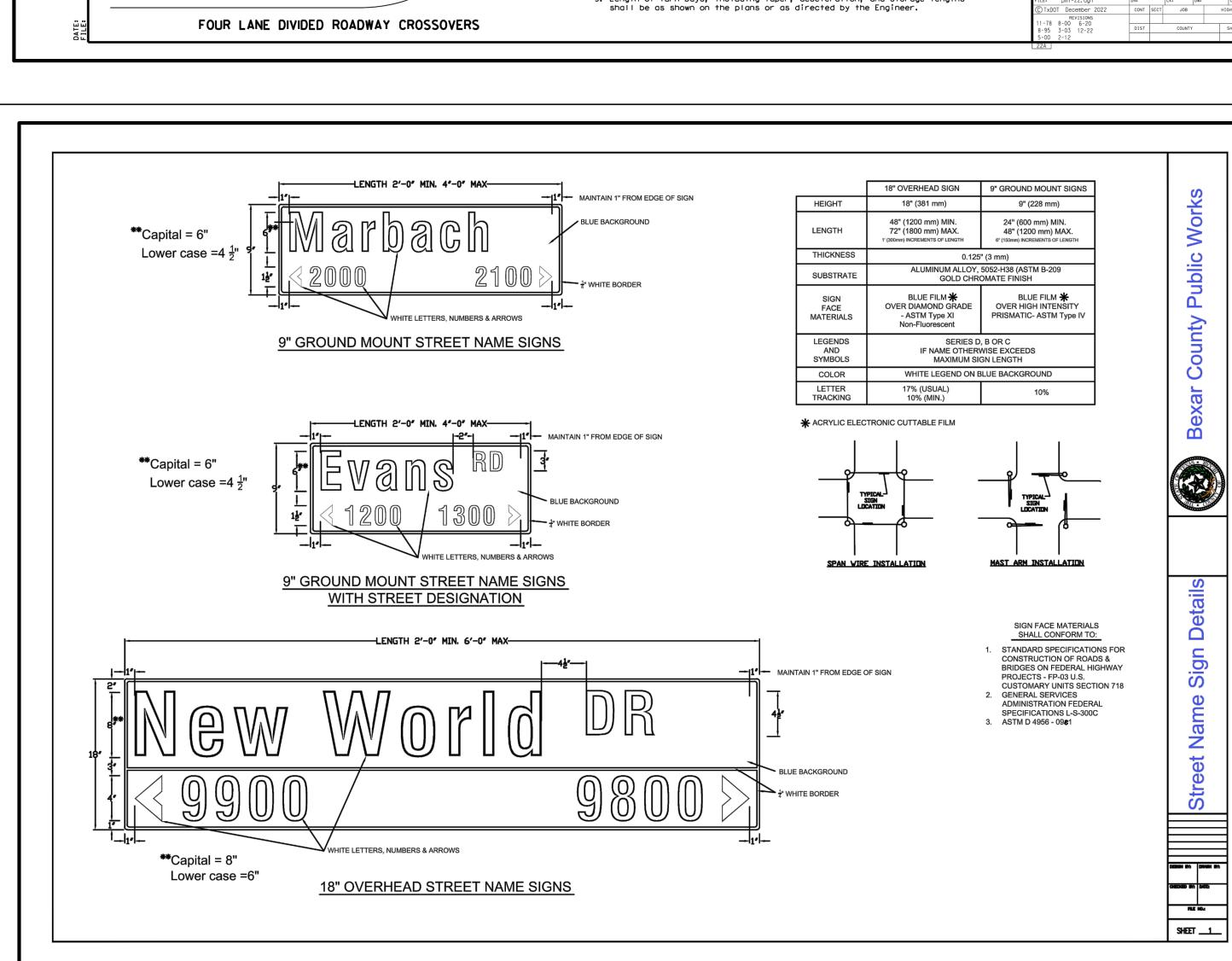
NO 24-11800437 12456-14 HECKED BL DRAWN KO

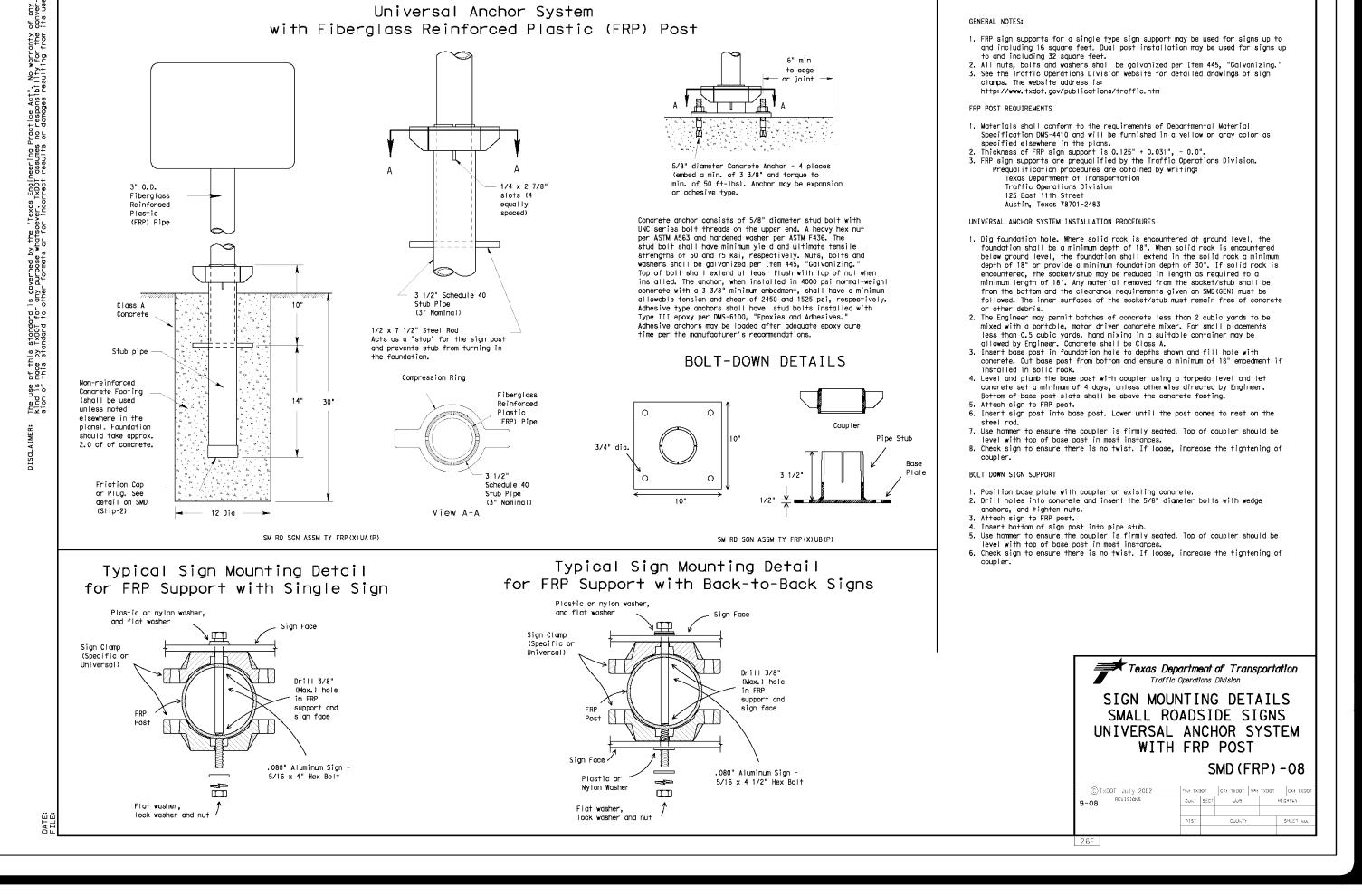
ATE NOVEMBER 2024 ESIGNER C3.10

SHEET





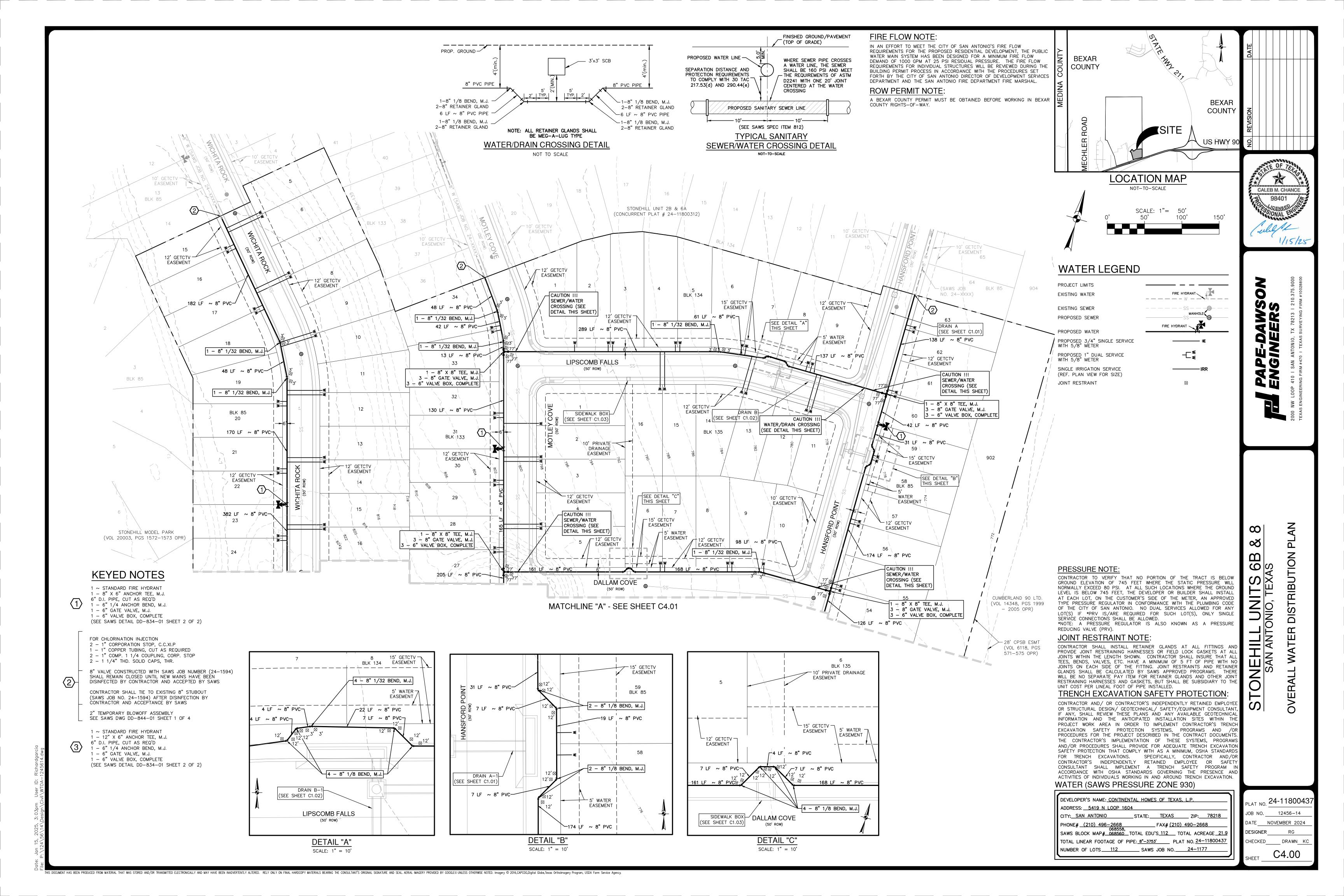


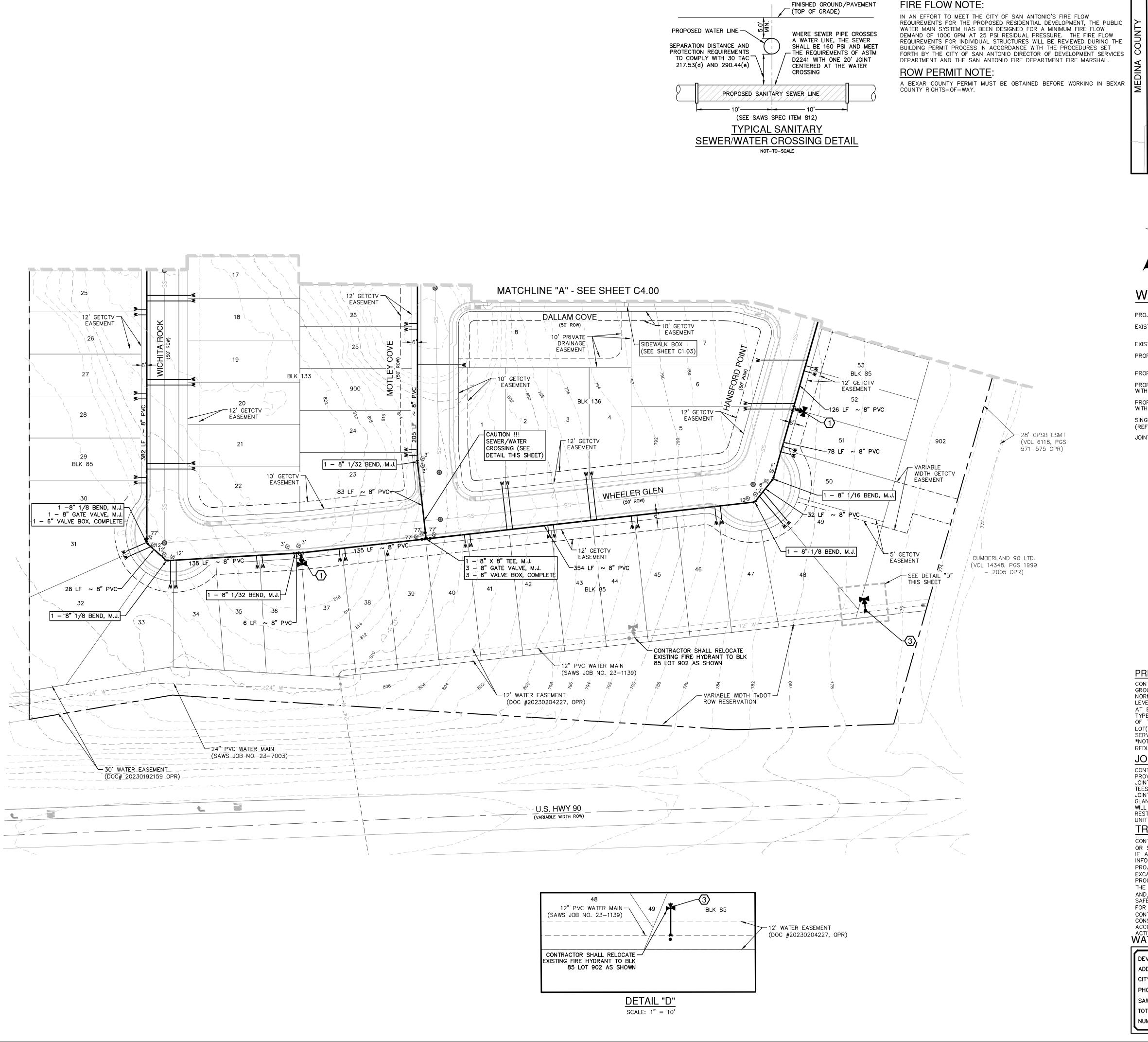




24-1180043 12456-14 ATE NOVEMBER 2024 ESIGNER IECKED BL DRAWN KO

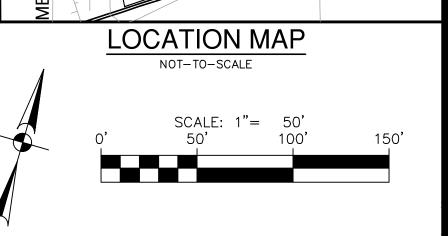
C3.11





# FIRE FLOW NOTE:

COUNTY BEXAR COUNTY US HWY 90



# WATER LEGEND

PROJECT LIMITS FIRE HYDRANT \_ # EXISTING WATER EXISTING SEWER PROPOSED SEWER PROPOSED WATER PROPOSED 3/4" SINGLE SERVICE WITH 5/8" METER PROPOSED 1" DUAL SERVICE WITH 5/8" METER SINGLE IRRIGATION SERVICE (REF. PLAN VIEW FOR SIZE) JOINT RESTRAINT

# **KEYED NOTES**

1 ~ STANDARD FIRE HYDRANT 1 - 8" X 6" ANCHOR TEE, M.J. 6" D.I. PIPE. CUT AS REQ'D 1 - 6" 1/4 ANCHOR BEND, M.J. 1 — 6" GATE VALVE, M.J. 1 - 6" VALVE BOX, COMPLETE (SEE SAWS DETAIL DD-834-01 SHEET 2 OF 2)

6" D.I. PIPE, CUT AS REQ'D

1 ~ STANDARD FIRE HYDRANT 1 - 12" X 6" ANCHOR TEE, M.J. 1 - 6" 1/4 ANCHOR BEND, M.J. 1 — 6" GATE VALVE, M.J. 1 - 6" VALVE BOX, COMPLETE (SEE SAWS DETAIL DD-834-01 SHEET 2 OF 2)

# PRESSURE NOTE:

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 CONNECTION'S SHALL BE ALLOWED. \*NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).

# JOINT RESTRAINT NOTE:

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

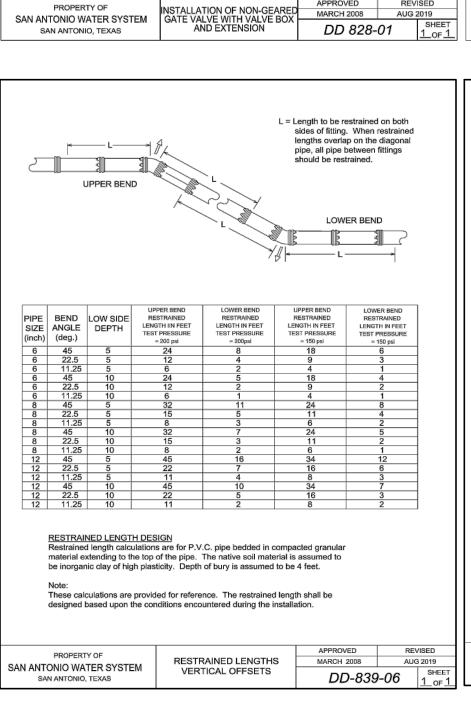
# TRENCH EXCAVATION SAFETY PROTECTION:

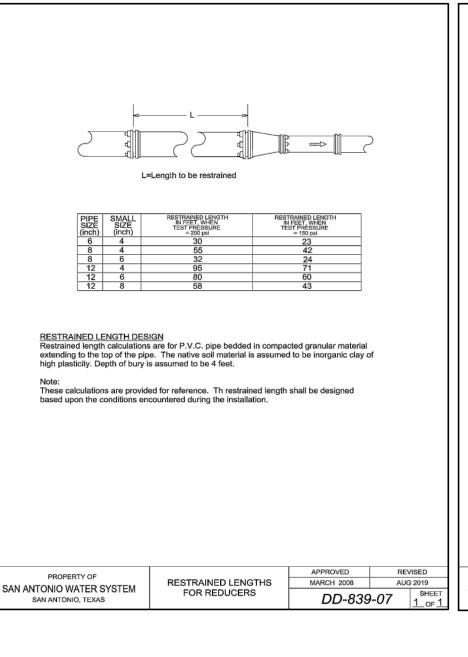
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN TH PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /O PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENT 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 ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AN ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. WATER (SAWS PRESSURE ZONE 930)

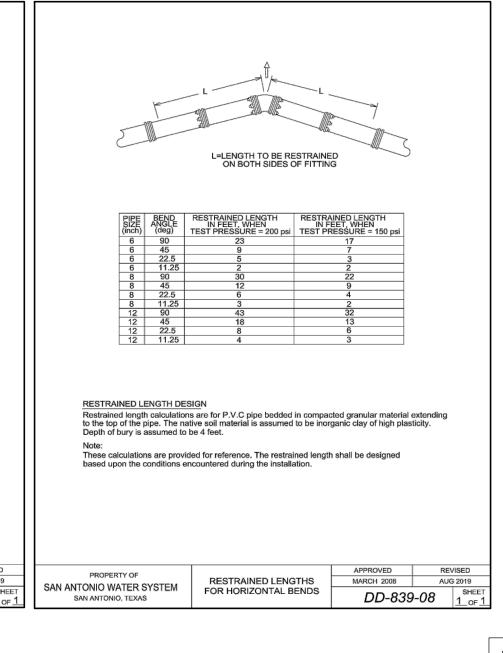
DEVELOPER'S NAME: CONTINE	NTAL HOME	S OF TEXAS	L.P.	
ADDRESS: 5419 N LOOP 16	04			_
CITY: SAN ANTONIO	STATE:	TEXAS	ZIP:	78218
PHONE# (210) 496-2668		_FAX# <u>(210)</u>	490-266	68
068558, SAWS BLOCK MAP# <u>068560</u>	_TOTAL EDU	'S <u>112</u> TC	TAL ACR	EAGE <u>21.9</u>
TOTAL LINEAR FOOTAGE OF I	PIPE: <u>8"-375</u>	3' PLA	T NO. <u>24</u> -	-118004 <u>37</u>
NUMBER OF LOTS 112	SAWS	JOB NO	24-117	77

CALEB M. CHANCE

PLAT NO. 24-1180043 JOB NO. 12456-14 DATE NOVEMBER 2024 DESIGNER CHECKED DRAWN KO



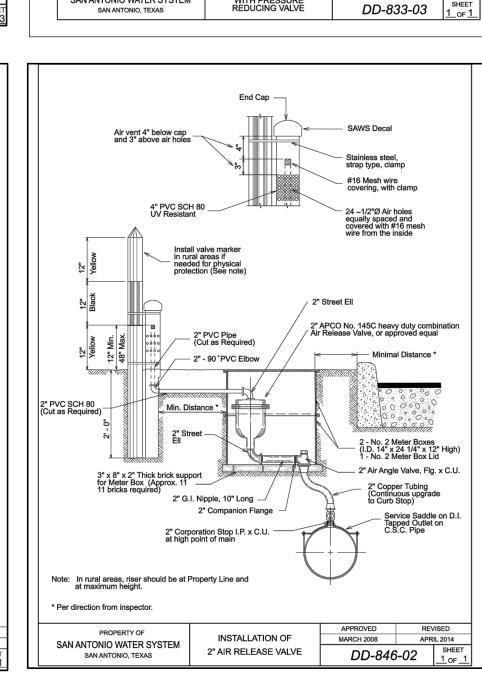


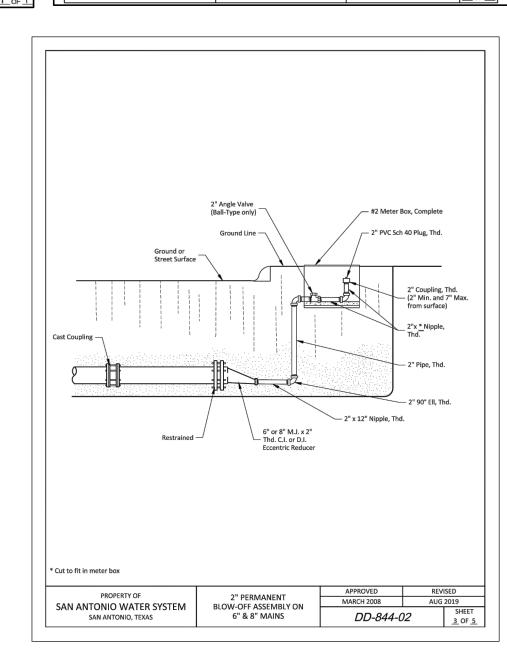


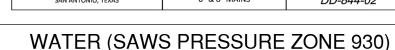
ALTERNATE INSTALLATION
Plan View Shown with Bend

FIRE HYDRANT

(JOINT RESTRAINT)







DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.					
ADDRESS: 5419 N LOOP 1604					
CITY: SAN ANTONIO STATE: TEXAS ZIP: 7	8218				
PHONE# (210) 496-2668 FAX# (210) 490-2668					
068558, SAWS BLOCK MAP# <u>068560</u> TOTAL EDU'S <u>112</u> TOTAL ACREAC	GE <u>21.9</u>				
TOTAL LINEAR FOOTAGE OF PIPE: 8"-3753" PLAT NO. 24-11	800437				
NUMBER OF LOTS 112 SAWS JOB NO. 24-1177	]				

STONEHILL UNITS 6B &	SAN ANTONIO, TEXAS
----------------------	--------------------

DISTRIBUTION WATER

PLAT NO. 24-11800437 JOB NO. 12456-14 ATE NOVEMBER 2024 DESIGNER CHECKED BL DRAWN KC C4.10

FINISHED GRADE FINISHED GRADE -MISC. UTILITY (I.E.: RCP/BOX CULVERT, GAS OR ELECTRICAL 1-1/8 BEND-DUCTBANK) -1-1/8 BEND \_\_WATER MAIN -WATER MAIN 1-1/8 BEND-WATER MAIN-V—WATER MAIN 1-1/8 BEND-/ -1-1/8 BEND ALL JOINTS ARE FULLY RESTRAINED IN DUCTBANK) ACCORDANCE WITH SAWS SPECIFICATION TABLE DD-839-06. TYPICAL UTILITY/WATER CROSSING DETAIL

√6"- 1/4 ANCHOR BEND

NOTE: SAWS REQUIRES LEAD FREE (<0.25%

= LEAD) FIRE HYDRANTS.

∕-TEE, M.J., ANCHOR

OUTSIDE SIDEWALK)

FACE OF CURB-/

7' MAX.

∜ 5.5' MIN.

FRONT OF HYDRANT

REFER TO SAWS DETAIL DD-834-01

FIRE HYDRANT INSTALLATION

WATER MAIN→ -MISC. UTILITY (I.E.: RCP/BOX CULVERT, GAS OR ELECTRICAL

NOT-TO-SCALE

TO COMPLY WITH 30 TAC

217.53(d) AND 290.44(e)

D2241 WITH ONE 20' JOINT

CENTERED AT THE WATER

CROSSING

PROPOSED SANITARY SEWER LINE

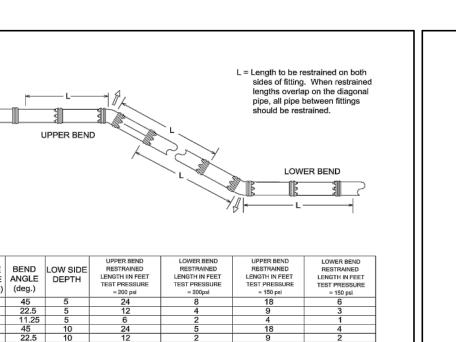
(SEE SAWS SPEC ITEM 812)

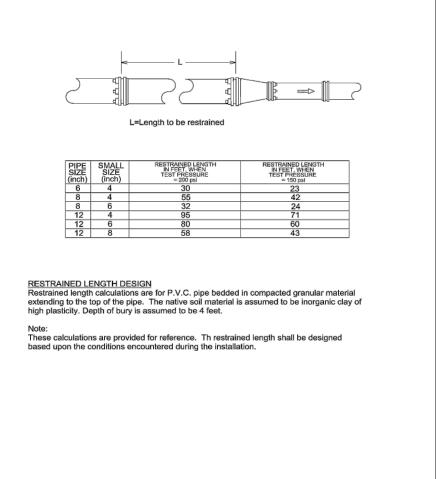
TYPICAL SANITARY

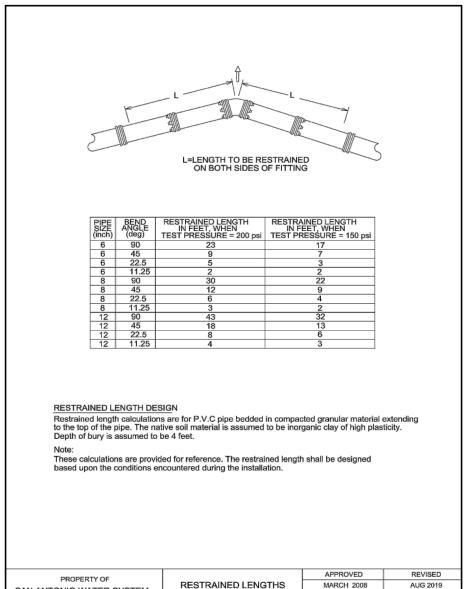
SEWER/WATER CROSSING DETAIL

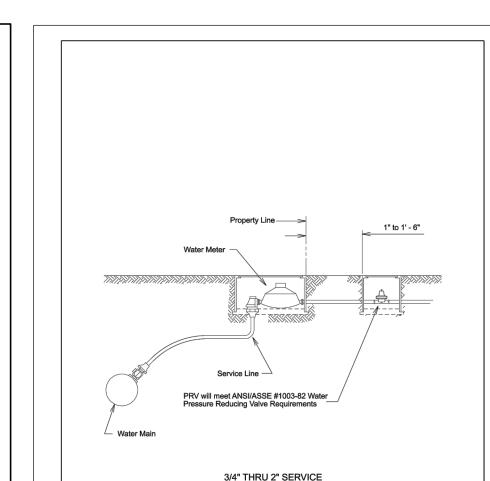
NOT-TO-SCALE

NOTE: Tracer Wire for PVC (Typ. for PVC & HDPE) NOTE: All Concrete to be 3,000 psi



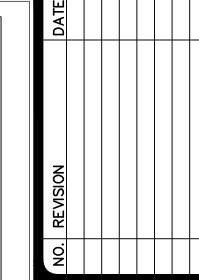


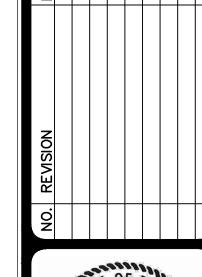




Note: For Tapping Schedule, See DD-824-01 Sheet 3 of 3.

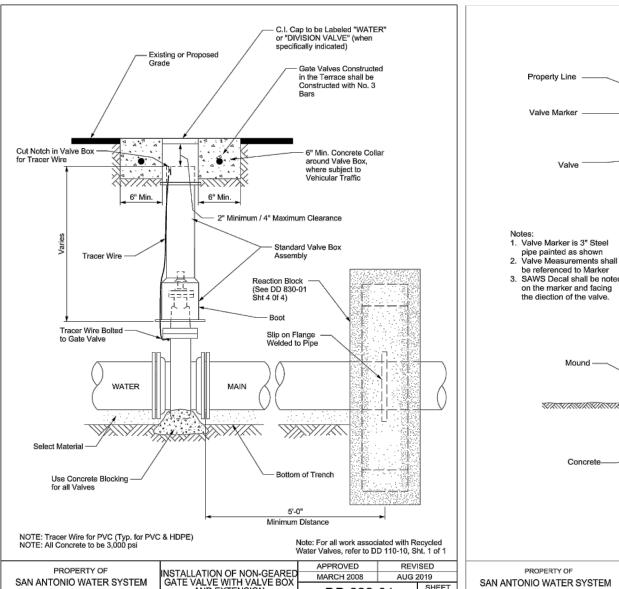
SAN ANTONIO WATER SYSTEM

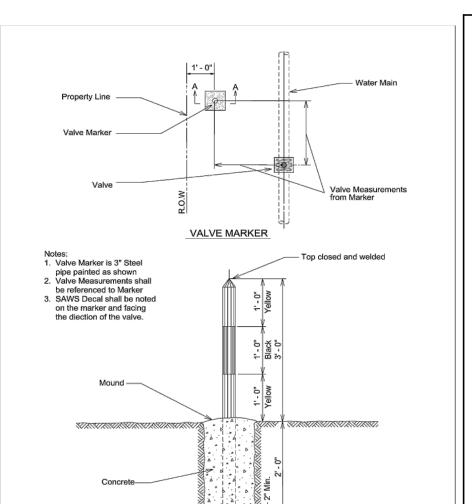




CALEB M. CHANCE

98401

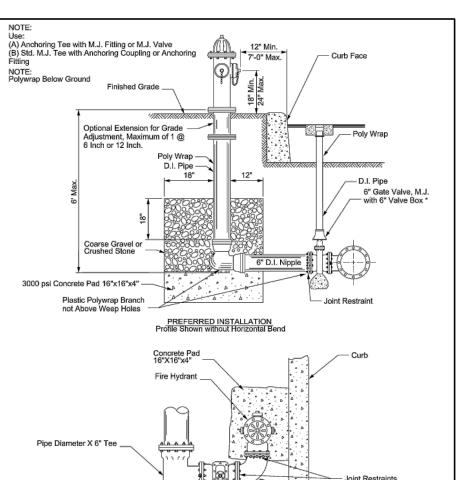




SECTION A-A

VALVE MARKER

SAN ANTONIO, TEXAS



NOTE: Operation of Hydrant shall be Full Opened or Full Closed Throttleling is Prohibited.

SAN ANTONIO WATER SYSTEM

AUG 2019

MARCH 2008

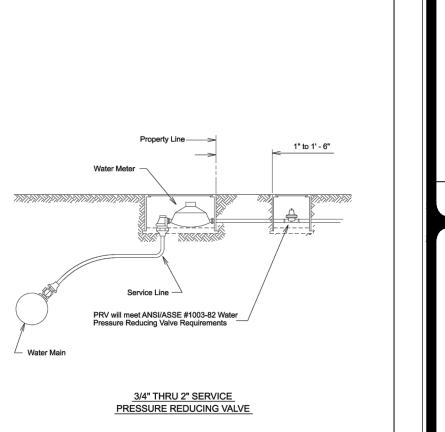
DD-828-04

- 6" ¼ Bend, M.J.

6" Gate Valve, M.J. — with Box \*

MAY 2013 AUG 2019

DD-834-01



APPROVED REVISED

MARCH 2008 APRIL 2014

SHEE

# SAWS CONSTRUCTION NOTES

(LAST REVISED JANUARY 2022)

# SAWS GENERAL SECTION

(UECM).

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

# SAWS WATER NOTES

- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST | 1. MACHINE CHLORINATION BY THE S.A.W.S. BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
  - FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014
- 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: PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE
- PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET. THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. TH 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 BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR THE CONTRACTOR. OPERATION OF A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VALVE CAN TAKE SEVERAL WEEKS FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT

WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF.

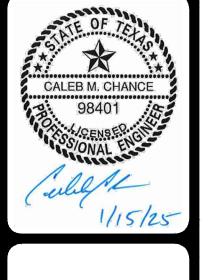
# PROJECT WATER NOTES

- ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
- . ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, AS
- PROVIDED FOR IN THE SPECIAL CONDITIONS. THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE THIS CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO THI CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND IT
- SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE AND VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT THE TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING TH 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 THI 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 ALI 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 THI 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.
- WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED NINE FEET FROM FACE OF CURB TO CENTER OF THE METER BOX.
- . ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
- IO. 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). 2. 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
- 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

WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO).

VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.

UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.



WATER (SAWS PRESSURE ZONE 930)

CITY: SAN ANTONIO STATE: TEXAS ZIP: 78218 PHONE# (210) 496-2668 FAX# (210) 490-2668

CHECKED BL DRAWN KO

DESIGNER

SHEET

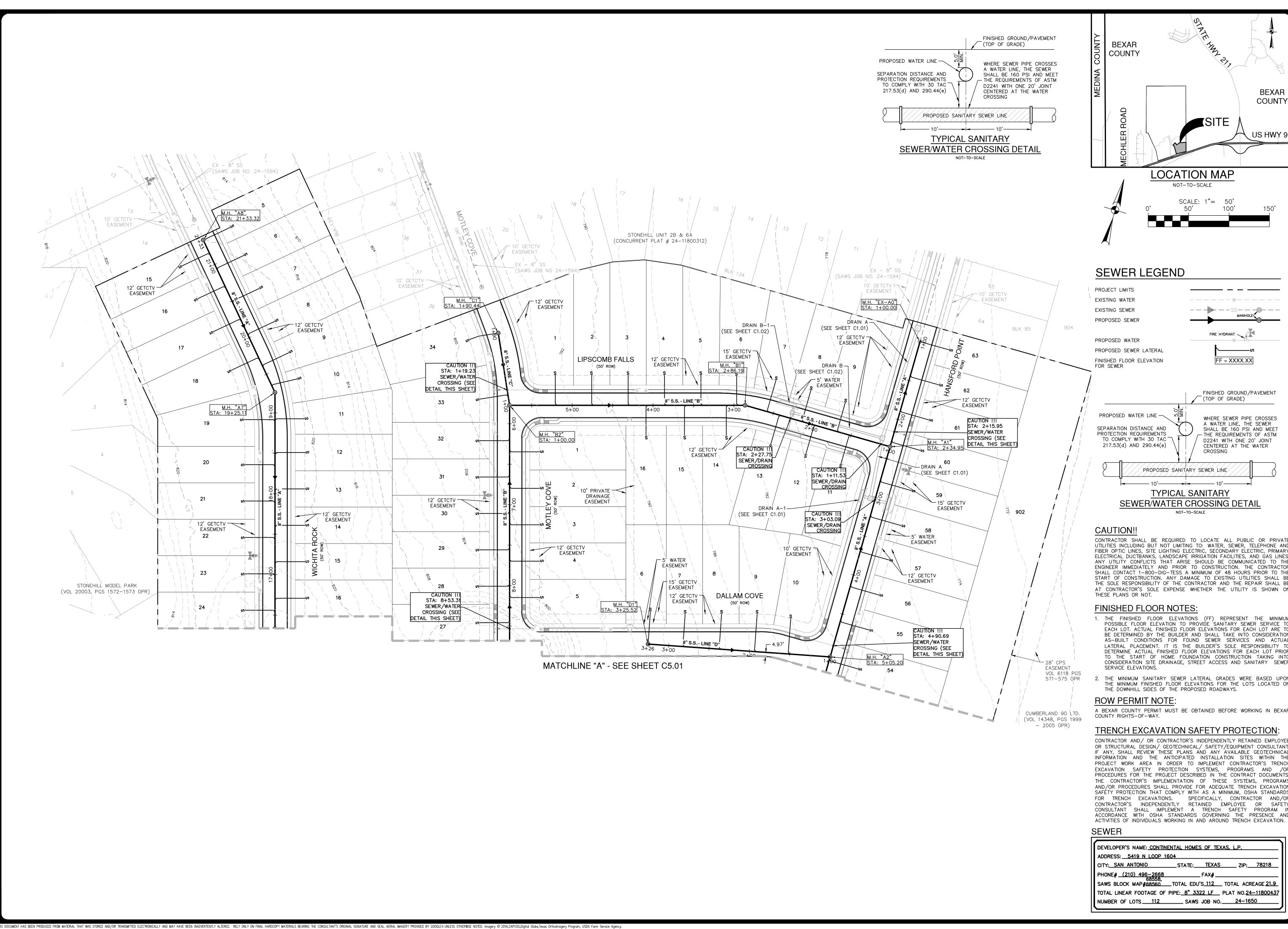
ATE NOVEMBER 2024

NO 24-11800437

12456-14

DEVELOPER'S NAME: <u>CONTINENTAL HOMES OF TEXAS, L.P.</u> ADDRESS: <u>5419 N LOOP 1604</u>

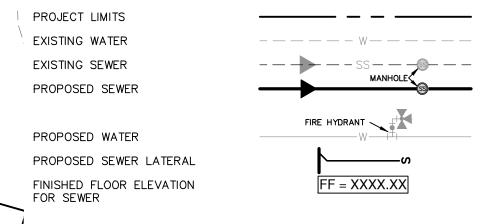
SAWS BLOCK MAP# 068560 TOTAL EDU'S 112 TOTAL ACREAGE 21.9 TOTAL LINEAR FOOTAGE OF PIPE: 8"-3753" PLAT NO. 24-11800437 NUMBER OF LOTS 112 SAWS JOB NO. 24-1177

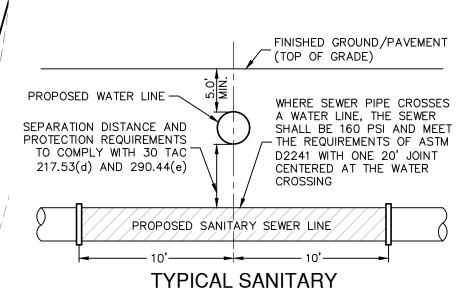


**BEXAR** COUNTY US HWY 90

**LOCATION MAP** CALEB M. CHANCE SCALE: 1"= 50'

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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 E AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON

1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TEACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE T BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATIO AS-BUILT CONDITIONS FOR FOUND SEWER SERVICES AND ACTUA LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO 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

THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNHILL SIDES OF THE PROPOSED ROADWAYS.

A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR

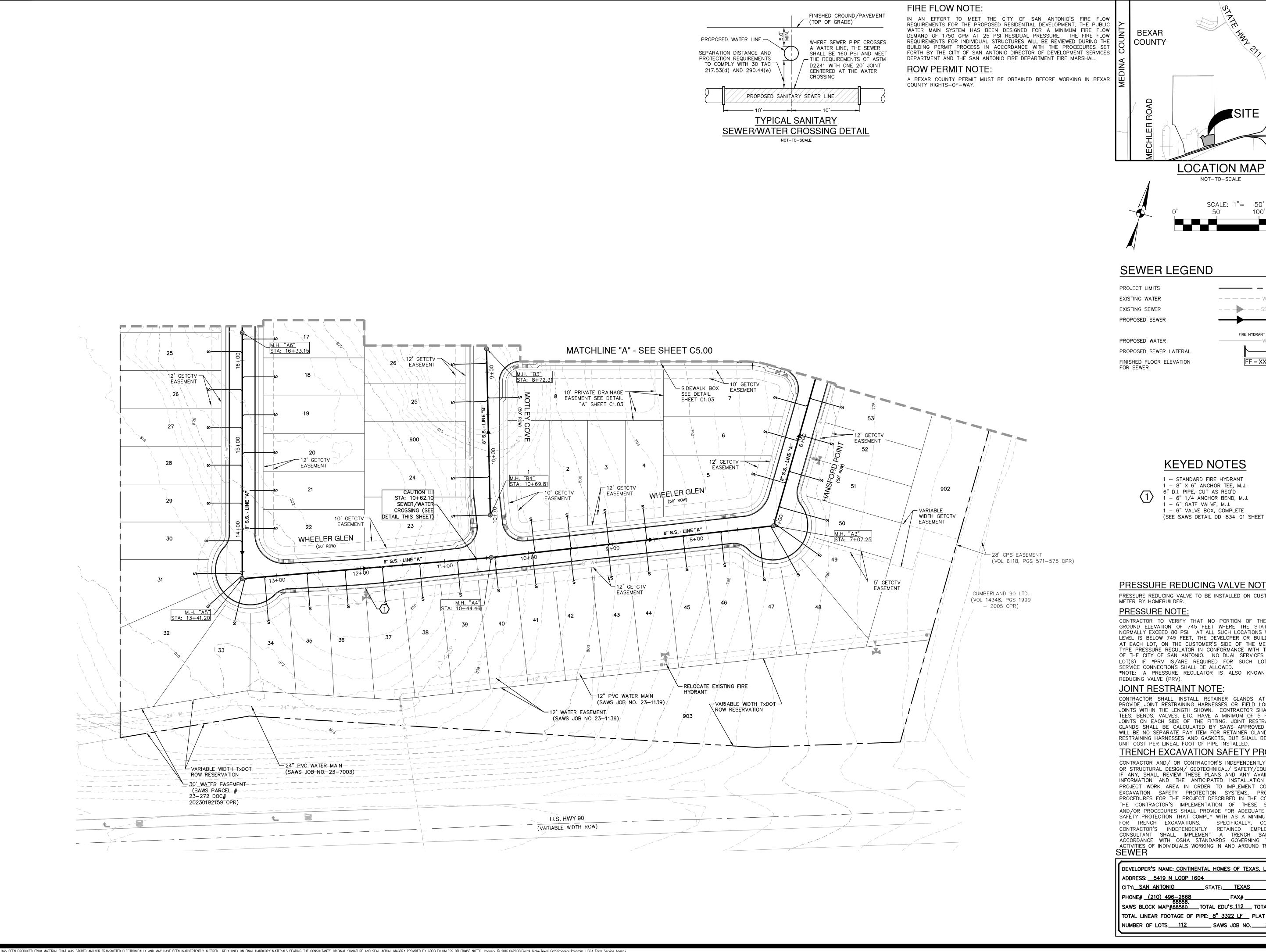
# TRENCH EXCAVATION SAFETY PROTECTION

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 /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/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AN

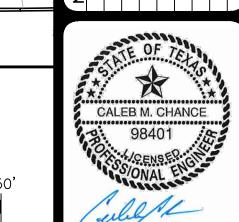
DEVELOPERS NAME. CONTIN	LITTAL HOWL	J OI ILAAJ	<u> </u>		11
ADDRESS: <u>5419 N LOOP 1604</u>					
CITY: SAN ANTONIO	STATE:	TEXAS	ZIP:	78218	
PHONE# (210) 496-2668 68558,		_FAX#			
SAWS BLOCK MAP#68560	TOTAL EDU	'S <u>112</u> TO	TAL ACR	EAGE <u>21.9</u>	
TOTAL LINEAR FOOTAGE OF	PIPE: 8" 33	<u> 22 LF</u> PL/	AT NO. <u>24</u>	<u> –11800437</u>	
NUMBER OF LOTS 112	SAWS	JOB NO	24-165	50	11

τ<sub>NO.</sub> 24-11800437 OB NO. 12456-14 ATE NOVEMBER 2024 DESIGNER

CHECKED BL DRAWN EG



BEXAR COUNTY US HWY 90



0

FIRE HYDRANT FF = XXXX.XX

# **KEYED NOTES**

1 ~ STANDARD FIRE HYDRANT 1 - 8" X 6" ANCHOR TEE, M.J. 6" D.I. PIPE, CUT AS REQ'D 1 - 6" 1/4 ANCHOR BEND, M.J. 1 — 6" GATE VALVE, M.J. 1 - 6" VALVE BOX, COMPLETE (SEE SAWS DETAIL DD-834-01 SHEET 2 OF 2)

# PRESSURE REDUCING VALVE NOTE:

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

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 CONNECTION'S SHALL BE ALLOWED. \*NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE

# JOINT RESTRAINT NOTE:

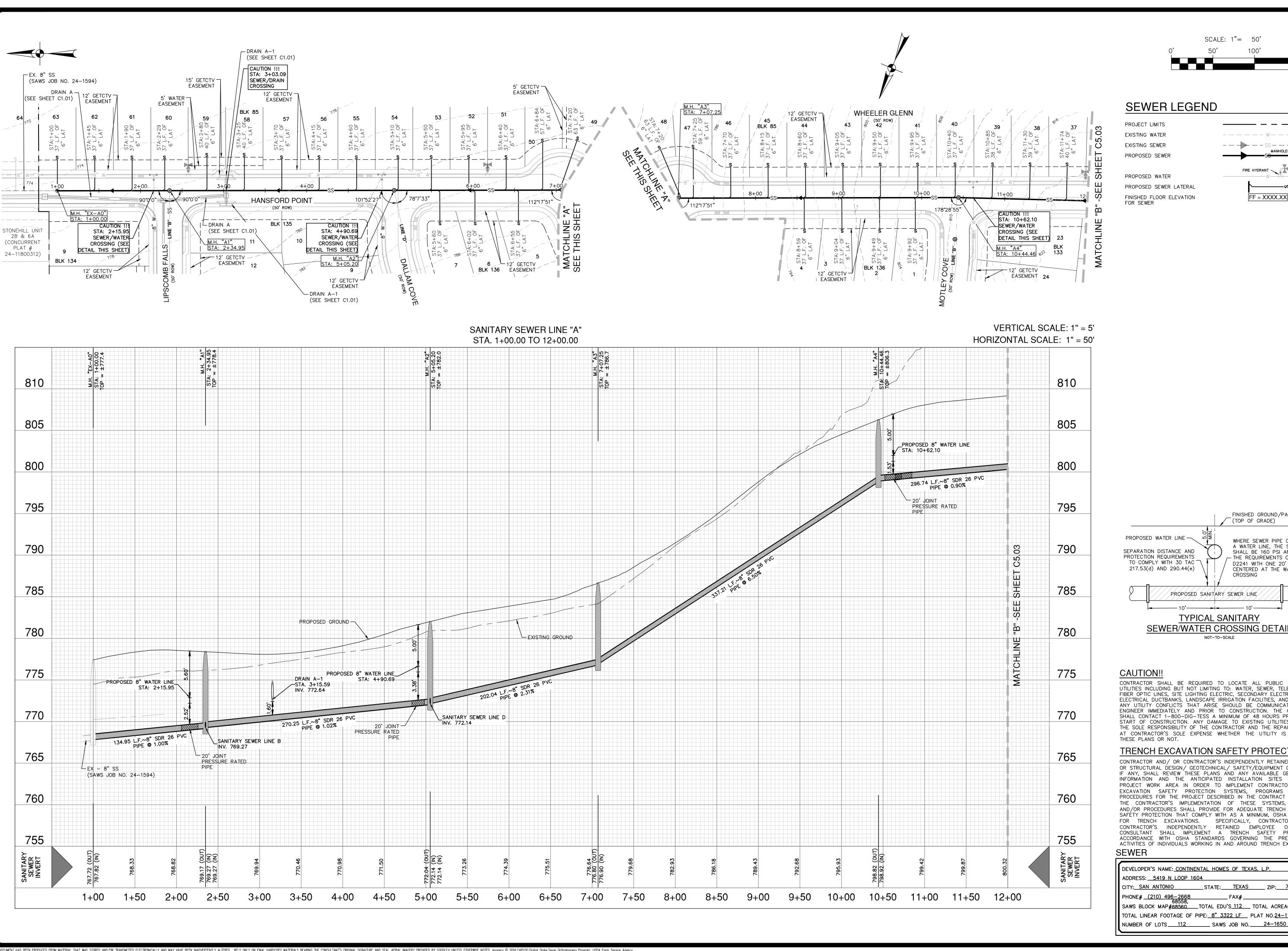
CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AN PROVIDE JOINT RESTRAINING HARNESSES OR FIELD LOCK GASKETS AT ALL JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT AL TEES, BENDS, VALVES, ETC. HAVE A MINIMUM OF 5 FT OF PIPE WITH NO JOINTS ON EACH SIDE OF THE FITTING. JOINT RESTRAINTS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

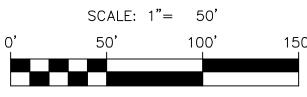
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EVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS. L.P.					
DRESS: 5419 N LOOP 1604					
Y: SAN ANTONIO STATE: TEXAS ZIP: 78218					
ONE# <u>(210) 496–2668</u> FAX#					
ONE# <u>(210) 496-2668</u> FAX#					
OTAL LINEAR FOOTAGE OF PIPE: <u>8" 3322 LF</u> PLAT NO. <u>24-11800437</u>					
MBER OF LOTS 112 SAWS JOB NO. 24-1650					

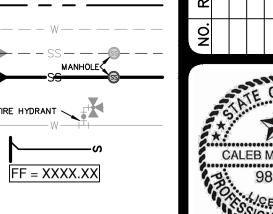
CLAT NO. 24-1180043 JOB NO. 12456-14 ATE NOVEMBER 2024 DESIGNER CHECKED\_BL\_DRAWN\_--





# SEWER LEGEND

PROPOSED SEWER LATERAL



CALEB M. CHANCE 98401

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PLAN (12+00)

LINE A -00 TO 1

0 0

FINISHED GROUND/PAVEMENT (TOP OF GRADE) PROPOSED WATER LINE — WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET SEPARATION DISTANCE AND PROTECTION REQUIREMENTS THE REQUIREMENTS OF ASTM TO COMPLY WITH 30 TAC D2241 WITH ONE 20' JOINT 217.53(d) AND 290.44(e) CENTERED AT THE WATER CROSSING PROPOSED SANITARY SEWER LINE TYPICAL SANITARY

SEWER/WATER CROSSING DETAIL NOT-TO-SCALE

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 T 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 (

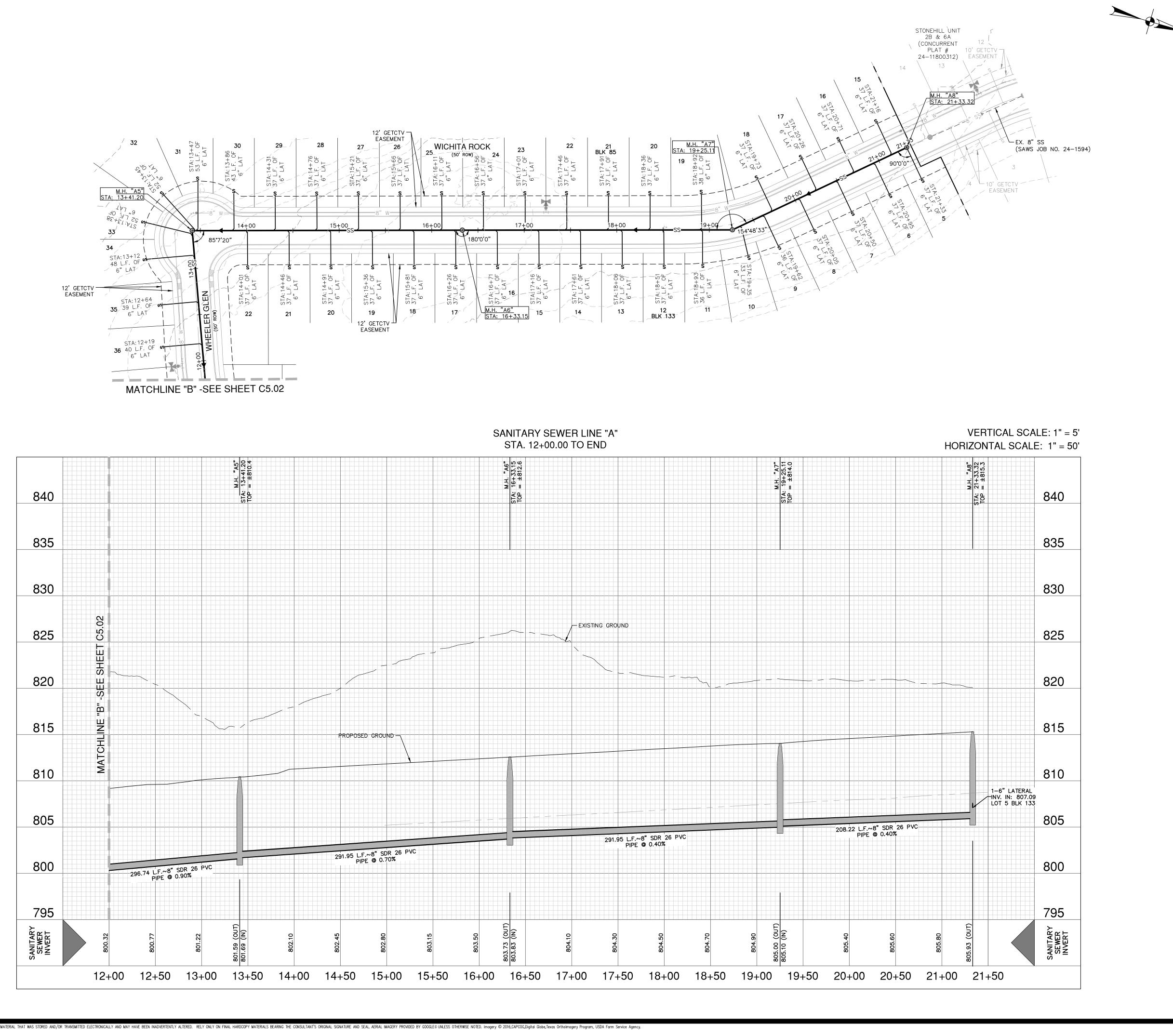
# TRENCH EXCAVATION SAFETY PROTECTION:

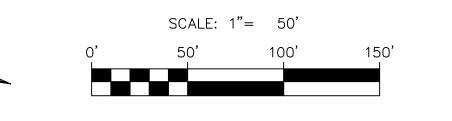
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DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.						
ADDRESS: 5419 N LOOP 160	)4					
CITY: SAN ANTONIO	STATE:	TEXAS	_ ZIP:_	78218		
PHONE# (210) 496-2668 68558, SAWS BLOCK MAP#68560		_FAX#				
SAWS BLOCK MAP#68560	TOTAL EDU	'S <u>112</u> TO	TAL ACRI	EAGE <u>21.9</u>		
TOTAL LINEAR FOOTAGE OF P	IPE: <u>8" 33</u>	<u> 22 LF</u> PLA	T NO. <u>24</u> -	<u> 11800437</u>		
	0.4440	100 110	04 165	:^		

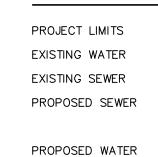
NO. 24-1180043 12456-14 TE NOVEMBER 2024 DESIGNER HECKED BL DRAWN EG

C5.02





# SEWER LEGEND



PROPOSED SEWER LATERAL

FINISHED FLOOR ELEVATION FOR SEWER

FF = XXXX.XX

FIRE HYDRANT

CALEB M. CHANCE

PAPE-DAWSO ENGINEERS

0

LINE 2+00 <sup>7</sup>

0 0

FINISHED GROUND/PAVEMENT (TOP OF GRADE) PROPOSED WATER LINE — WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET SEPARATION DISTANCE AND PROTECTION REQUIREMENTS THE REQUIREMENTS OF ASTM TO COMPLY WITH 30 TAC D2241 WITH ONE 20' JOINT 217.53(d) AND 290.44(e) CENTERED AT THE WATER CROSSING PROPOSED SANITARY SEWER LINE

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

# 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 T START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL E THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL B AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ( THESE PLANS OR NOT.

# 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 TI PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENC EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /C 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.

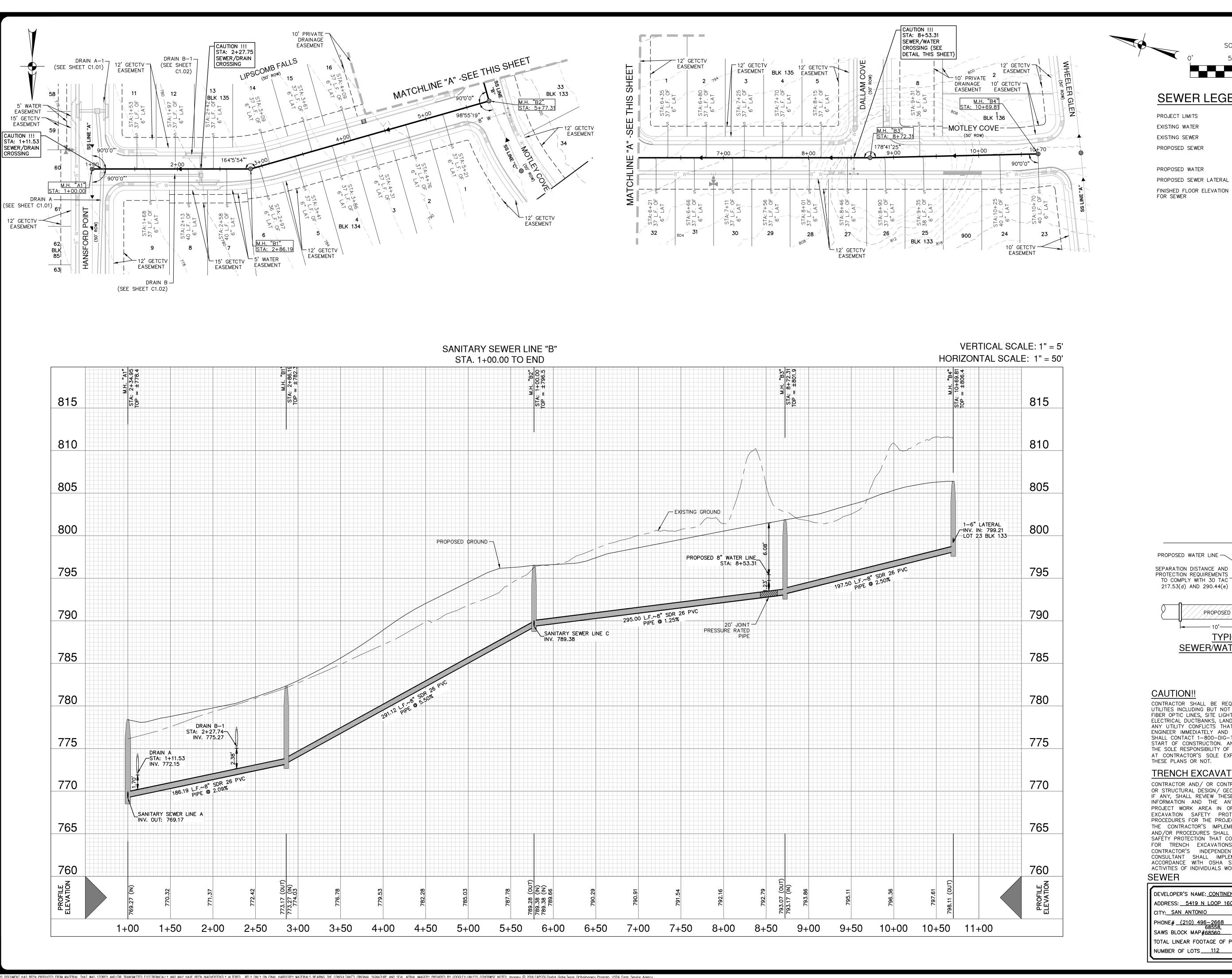
SEWER

DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P. ADDRESS: 5419 N LOOP 1604 CITY: SAN ANTONIO STATE: TEXAS ZIP: 78218 PHONE# (210) 496-2668 SAWS BLOCK MAP#68560 TOTAL EDU'S 112 TOTAL ACREAGE 21.9 TOTAL LINEAR FOOTAGE OF PIPE:<u>8" 3322 LF</u> PLAT NO.<u>24–11800437</u>

NUMBER OF LOTS 112 SAWS JOB NO. 24-1650

. NO. 24-11800437 12456-14 ATE NOVEMBER 2024 ESIGNER CHECKED\_BL DRAWN EG

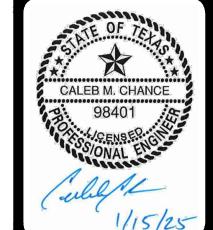
C5.03



SCALE: 1"= 50' SEWER LEGEND PROJECT LIMITS EXISTING WATER EXISTING SEWER

FIRE HYDRANT

FF = XXXX.XX



PROFI

000

FINISHED GROUND/PAVEMENT (TOP OF GRADE) PROPOSED WATER LINE — WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET SEPARATION DISTANCE AND PROTECTION REQUIREMENTS THE REQUIREMENTS OF ASTM TO COMPLY WITH 30 TAC D2241 WITH ONE 20' JOINT 217.53(d) AND 290.44(e) CENTERED AT THE WATER CROSSING PROPOSED SANITARY SEWER LINE TYPICAL SANITARY

# CAUTION!!

PROPOSED SEWER

PROPOSED WATER

PROPOSED SEWER LATERAL

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 TI START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL B THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN O THESE PLANS OR NOT.

SEWER/WATER CROSSING DETAIL

NOT-TO-SCALE

# TRENCH EXCAVATION SAFETY PROTECTION:

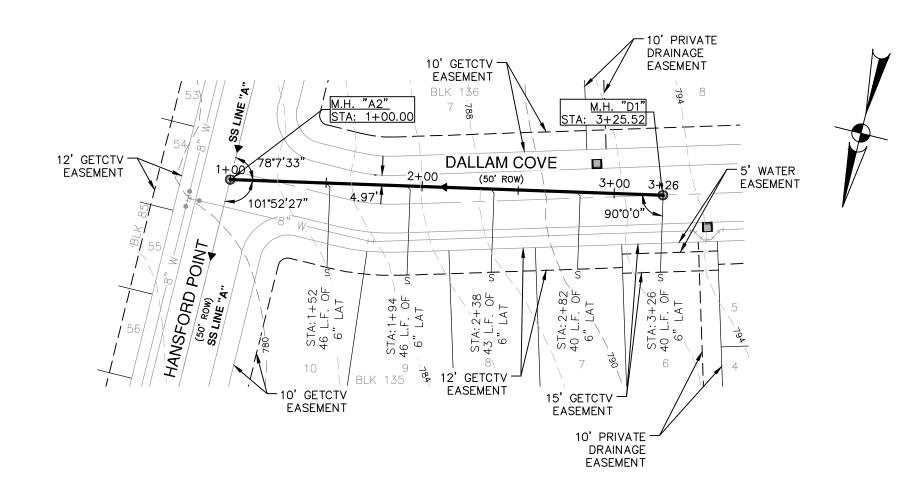
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CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM I ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AN ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. SEWER

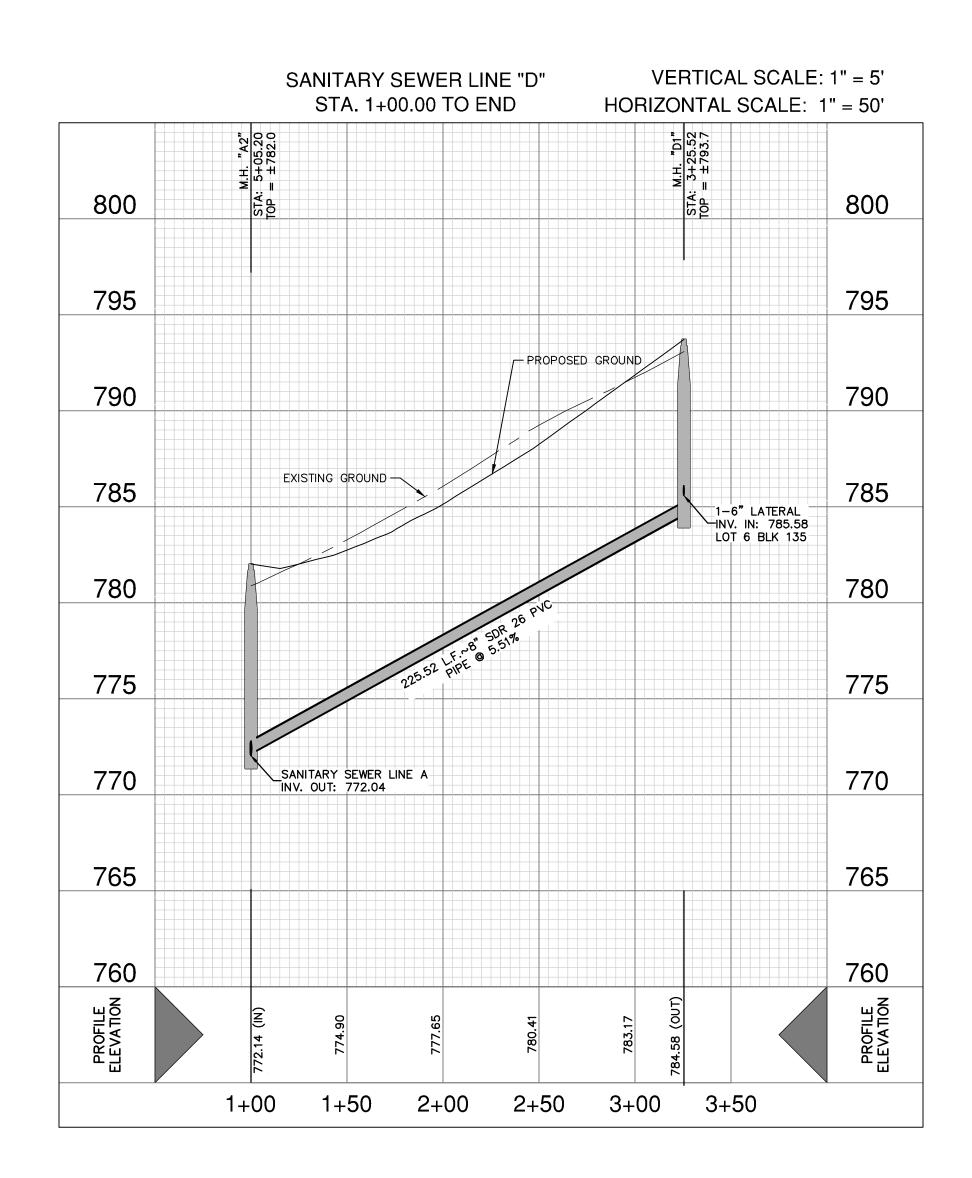
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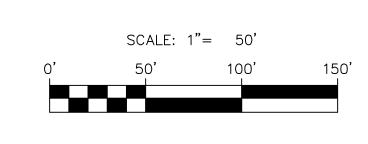
. <sub>NO.</sub> 24-11800437 12456-14 ATE NOVEMBER 2024 DESIGNER CHECKED\_BL\_DRAWN\_EG

C5.04



# SANITARY SEWER LINE "C" VERTICAL SCALE: 1" = 5' HORIZONTAL SCALE: 1" = 50' STA. 1+00.00 TO END M.H. "C1" TA: 1+90.44 P = ±797.5 805 800 PROPOSED GROUND PROPOSED 8" WATER LINE STA: 1+19.23 795 795 EXISTING GROUND 20' JOINT 1-6" LATERAL PRESSURE RATED NV. IN: 791.65 LOT 35 BLK 133 790 90.44 L.F.~8" SDR 26 PVC PIPE @ 1.25% SANITARY SEWER LINE B 785 785 780 780 775 775 1+50 2+00





# SEWER LEGEND

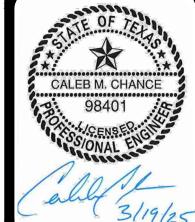
PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER

PROPOSED WATER

PROPOSED SEWER LATERAL

FINISHED FLOOR ELEVATION FOR SEWER

FIRE HYDRANT FF = XXXX.XX



PROFIL

∞

6B

LINE C AND D PLAN 1+00.00 TO END)

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S

## \* WILL COORDINATE WITH THE SAWS WATER REVIEWER DURING FINISHED GROUND/PAVEMENT INSTALLATION TO ENSURE (TOP OF GRADE) PROPER SPACING. PROPOSED WATER LINE — WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET SEPARATION DISTANCE AND PROTECTION REQUIREMENTS THE REQUIREMENTS OF ASTM TO COMPLY WITH 30 TAC D2241 WITH ONE 20' JOINT 217.53(d) AND 290.44(e) CENTERED AT THE WATER CROSSING PROPOSED SANITARY SEWER LINE

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

# CAUTION!!

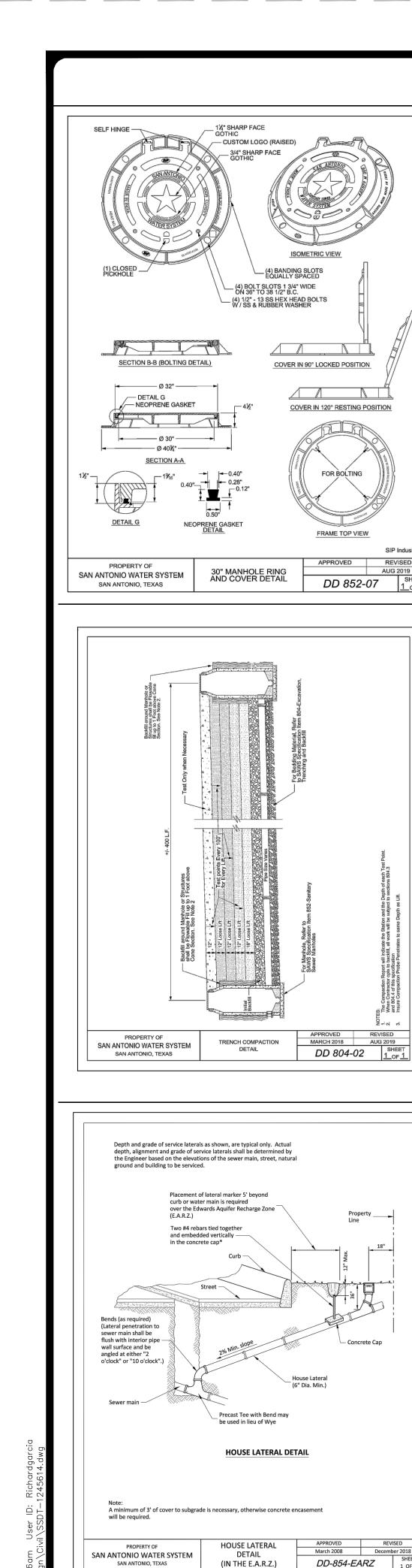
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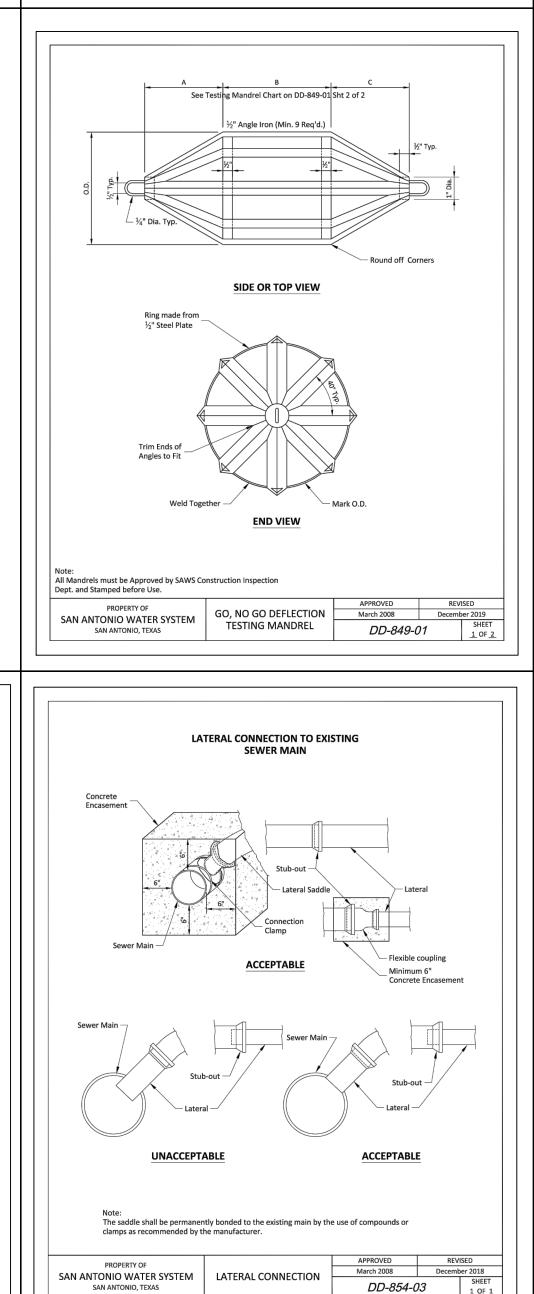
# TRENCH EXCAVATION SAFETY PROTECTION:

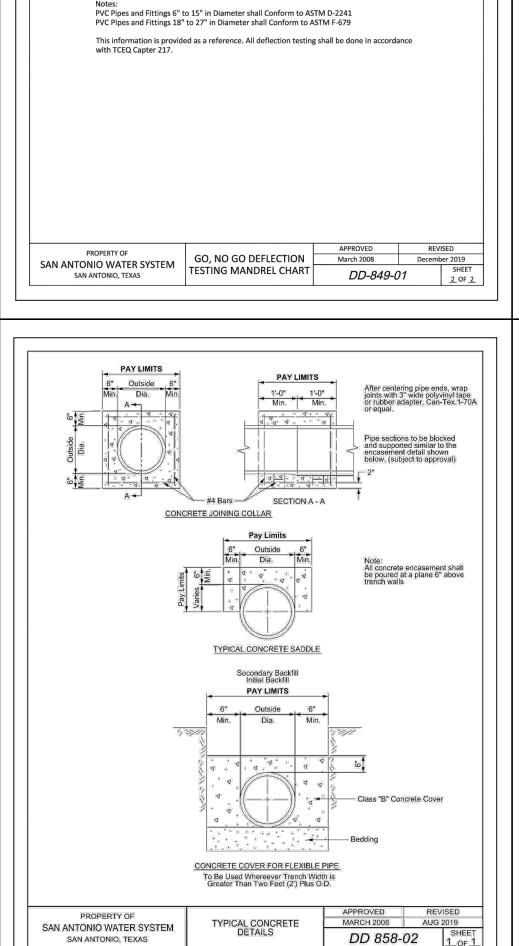
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ELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P.						
RESS: <u>5419 N LOOP 1604</u>						
: SAN ANTONIO STATE: TEXAS ZIP: 78218						
NE# <u>(210) 496–2668</u> FAX#						
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AL LINEAR FOOTAGE OF PIPE: <u>8" 3322 LF</u> PLAT NO. <u>24-11800437</u>						
BER OF LOTS 112 SAWS JOB NO. 24-1650						
,						

V<sub>PLAT NO.</sub> 24-11800437 JOB NO. 12456-14 DATE NOVEMBER 2024 DESIGNER CHECKED BL DRAWN EG







COVER IN 90° LOCKED POSITION

COVER IN 120° RESTING POSITION

REMOVE LIFT ASSIST BOLT & REMOVE COVER @ 90°

ERGO XL Assembly

APPROVED REVISED
MARCH 2008 AUG 2019
SHEET

DD 852-07 SHEET 3 OF 5

— (4) Bolts Slots 1" Wide on 36" to 38½" B.C.

(4) ½" - 13 SS Hex Head Bolts — w/SS and Rubber Washers

(1) Closed Pickhole (M-Pick) —

SECTION B-B

40¾" Dia.

SECTION A-A

PROPERTY OF

SAN ANTONIO, TEXAS

SAN ANTONIO WATER SYSTEM

COVER SECTION B-B

HINGE & GASKET VIEW

HINGE POSITIONS

DD 852-07

ERGO Assembly

REVISED

FRAME SECTION B-B

── 1¼" Sharp Face Gothic

LHD0102238 Flat Gasket w.out Sut ----

PROPERTY OF

SAN ANTONIO WATER SYSTEM

SAN ANTONIO, TEXAS

FRAME TOP VIEW

DD 852-07

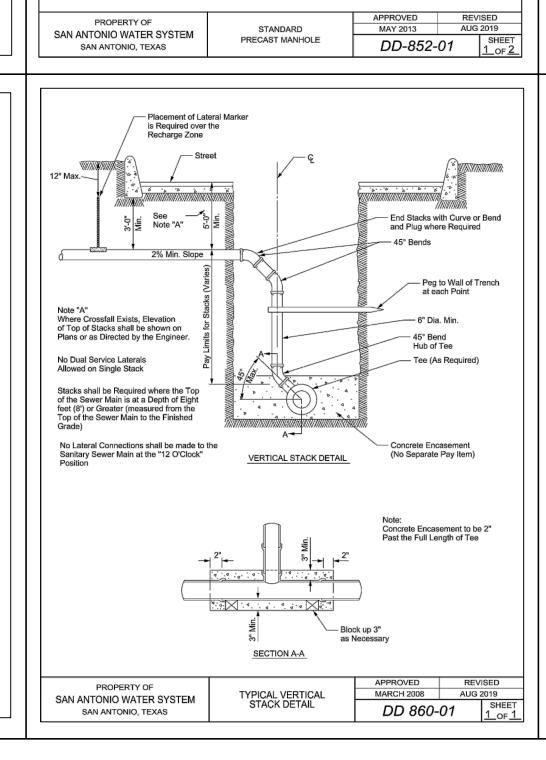
APPROVED REVISED

March 2008 December 2018

DD-854-EARZ 3HEE1 1 OF 1

SIP Industries

FRAME SECTION A-A



ー 1½" High Raised Letters Custom Logo Flush w/Top Surface 4X Drill Tan & Ci

Holes on a 2911/16" Dia. B.C.

"T-SEAL" GASKET DETAIL

— Hold Open Device

PROPERTY OF

SAN ANTONIO, TEXAS

All New Manhole Installations Shall have a Minimum of (2) and Not Exceed (4) Throat Rings.

Minimum Angle \_\_\_\_\_\_\_

PRECAST MANHOLE

SAN ANTONIO WATER SYSTEM

Neoprene Plug (For Self-Sealing

NEENAH FOUNDRY

APPROVED REVISED

MARCH 2008 AUG 2019

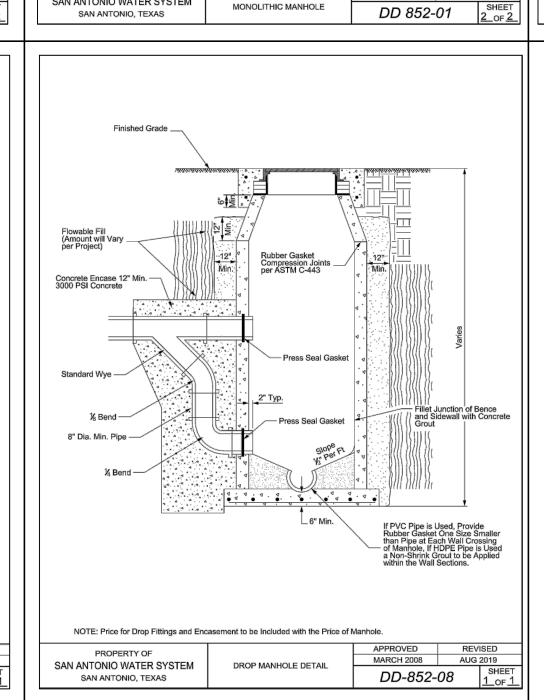
--- SHEET

DD 852-07 4 OF 5

— Bench ½-Inch per Foot

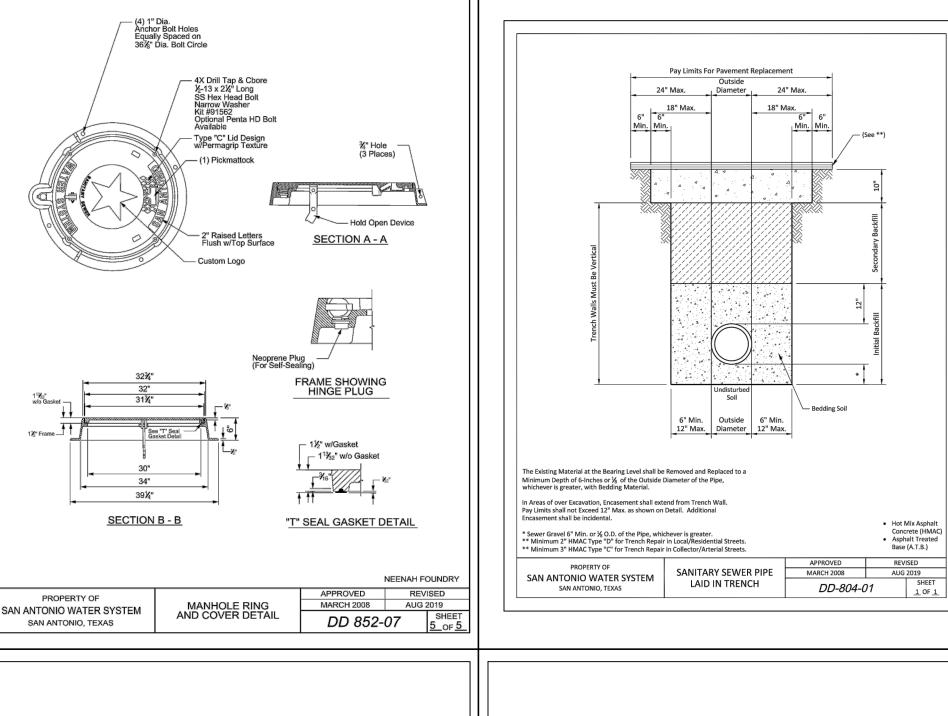
eral Notes:
Material for Sanitary Sewer Pipe must be the Same from Manhole
to Manhole. Changes in Type of Pipe may be Made Only at Manholes,
or Special Structures, except as Approved by the SAWS Inspector.
Adapters and Concrete Collars shall be Used as Directed and Approved
by the SAWS Inspector.
Watertight Manhole Rings and Covers shall be Trans-Tex A77 "O" Ring
or Approved Equal.
The Minimum Angle of Flow for a Connecting Sewer to the Direction of
Flow Defined by a Collection System is 90 Degrees, unless Approved
by the Encineer.

FRAME SHOWING HINGE PLUG



MONOLITHIC MANHOLE

aneral Notes:
Material for Sanitary Sewer Pipe Must be the Same from Manhole to Manhole. Changes in Type of Pipe May be Made only at Manholes, or Special Structures, Except as Approved by the Project Engineer.
Adaptors and Concrete Collars shall be used as approved by the SAWS Project Engineer.
Watertight Manhole Rings and Covers shall be Trans-Tex A77 "O" Ring or Approved Equal.



I & I Barrier Required as Per Specification

March 2008

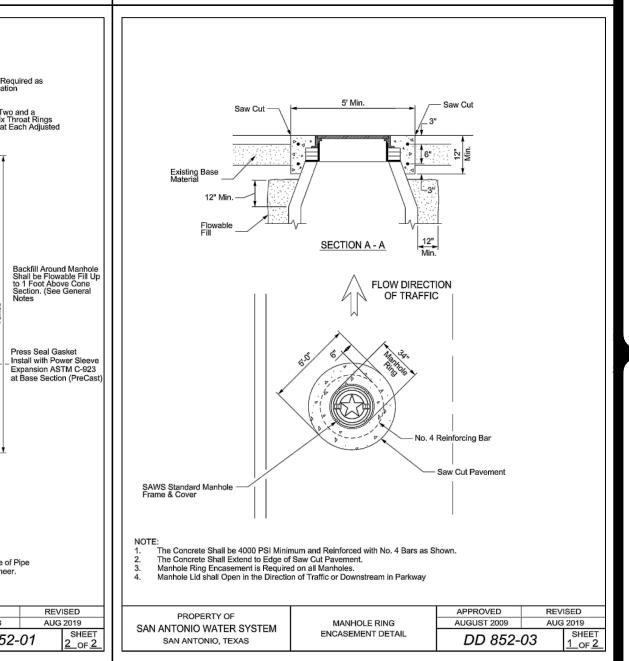
Adjusted: a Minimum of Two and a Maximum of Six Throat Rings Shall be Used at Each Adjusted Manhole.

Manhole Ring and Co (See DD 852-02)

Backfill Around Manhole Shall be Flowable Fill up to \_ 1 Foot Above Cone Section.

Concrete Grout ----

SAN ANTONIO WATER SYSTEM

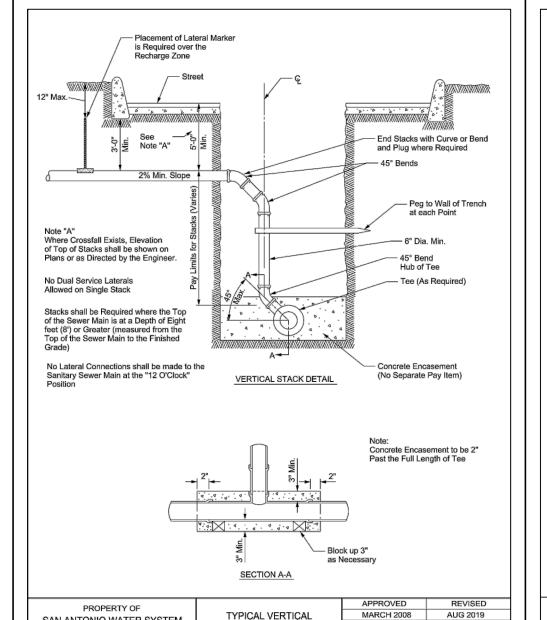




SEWER				
DEVELOPER'S NAME: CONTINE	ENTAL HOME	S OF TEXAS.	L.P.	
ADDRESS: 5419 N LOOP 16				70040
CITY: SAN ANTONIO				
PHONE# <u>(210) 496-2668</u> 68558, SAWS BLOCK MAP# <u>68560</u>	TOTAL EDIL	- FAX# 'C 112 TO	TAL ACDI	
TOTAL LINEAR FOOTAGE OF				
AUMPER OF LOTE 112				

, LAT NO. 24-1180043 12456-14 ATE NOVEMBER 2024 ESIGNER HECKED BL DRAWN EG

CALEB M. CHANCE



PRECAST MANHOLE

Concrete Cradle to Nearest
Point of all Lines Leaving or
Entering Manholes
All Pipe is Used, Provide
Rubber Gasket One Size Smaller
than Pipe at Each Wall Crossing
of Manhole, If HDPE Pipe is Used
a Non-Shrink Grout to be Applied
within the Wall Sections, Gasket
is also, Required.

	SA
	SAWS GENE
	1. ALL MATERIALS CONTRACT SHALL COMPLY WITH TH FOLLOWING AS AP
	A.CURRENT TEX CRITERIA FO CODE (TAC) WATER", TAC
	B.CURRENT T) HIGHWAYS, S C.CURRENT 'S, WATER AND D.CURRENT CIT
	D.CURRENT CIT WORKS CONS E.CURRENT CIT (UECM).
	2. THE CONTRACTOR THEY OBTAIN A CONSTRUCTION PE SAWS CONSTRUCT ARRANGED A ME REQUIREMENTS. V
	REPLACEMENT AT
	3. THE CONTRACTOR WEBSITE, HTTP:/ NOTED WITHIN THE
	4. THE CONTRACTOR INSPECTION DIVISION (210) 233-2973, AFFECTED HOME BEGINNING ANY V
	5. LOCATION AND D THE PLANS ARE DEPTHS MUST BE CONSTRUCTION. I
	CONSTRUCTION. I UTILITY SERVICE DURING CONSTRUC
	6. THE CONTRACTOR AND DRAINAGE WHETHER SHOWN LOCATES REQUES FOLLOWING CONTA
	• SAWS UTILITY • COSA DRAINA • COSA TRAFFI • COSA TRAFFI
	TEXAS STATE  THE CONTRACTOR CURBS, STREETS, ORIGINAL OR BE- PROJECT'S CONST
	PROJECT'S CONST  8. ALL WORK IN TE COUNTY RIGHT—CONSTRUCTION SF
	9. THE CONTRACTOR GOVERNING MUNIC
	10. THE CONTRACTOR FLOOD PLAIN WITH  11. HOLIDAY WORK: C
	11. HOLIDAY WORK: C SAWS RECOGNIZED CONSTWORKREQ@S WEEKEND WORK: CONSTRUCTION DE REQUEST SHOULD
	REQUEST SHOULD  ANY AND ALL SA'  APPROVAL WILL B
	12. COMPACTION NOT MEETING THE COMPAYING FOR THE BE DONE AT ONE SAWS INSPECTOR LIFT PER 400 LIN AND FINALIZED B PROVIDING ALL NI
	SAWS INSPECTOR LIFT PER 400 LIN AND FINALIZED B PROVIDING ALL NI
	13. A COPY OF ALL INSPECTION DIVISI

IS 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.

## SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)

# NERAL SECTION

- ALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS ALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE
- TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) 'DESIGN FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE AC) TITLE 30 PART 1 CHAPTER 217 AND 'PUBLIC DRINKING AC TITLE 30 PART 1 CHAPTER 290.
- TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STREETS AND DRAINAGE". "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR
- ND SANITARY SEWER CONSTRUCTION". CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC ONSTRUCTION".
- CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"
- CTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY UCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED RMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- CTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS TP: //WWW.SAWS.ORG/BUSINESS\_CENTER/SPECS. UNLESS OTHERWISE
- CTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION 973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY OME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO
- D DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO N. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM TRUCTION AT NO COST TO SAWS.
- CTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES E STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR QUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. TH NTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
- ILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES AINAGE (210) 207-0724 OR (210) 207-6026
- AFFIC SIGNAL OPERATIONS (210) 206-8480 AFFIC SIGNAL DAMAGES (210) 207-3951 TATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- CTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, TTS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE
- TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR IT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE SPECIFICATIONS AND PERMIT REQUIREMENTS.
- CTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER JNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- CTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- IZED HOLIDAYS. REQUEST SHOULD BE SENT TO Q@SAWS.ORG.

DRK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. JLD BE SENT TO CONSTWORKREQ@SAWS.ORG.

SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND ILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

- NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPÀCTION RÉQUIREMENTS 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 TOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY 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

2. IF BYPASS PUMPING IS REQUIRED, THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".

PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44(E)(4)(B). CONTRACTOR SHALL CENTER A 20' JOINT OF 160 PSI 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 RÉGARDLESS OF SIZE.
- MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
- 8. ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

# 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.

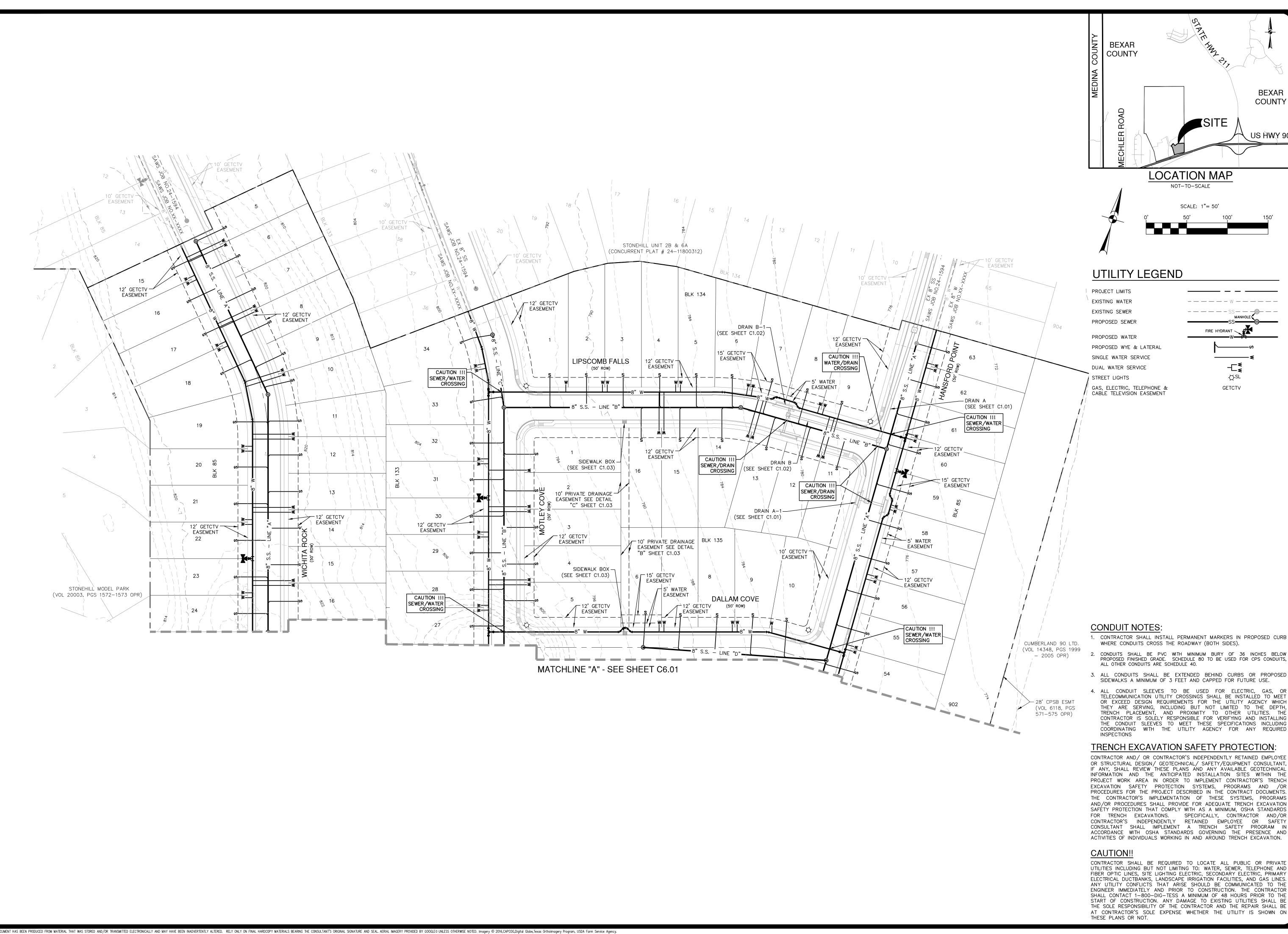
DEVELOPER'S NAME: CONTINENTAL HOMES OF TEXAS, L.P. ADDRESS: <u>5419 N LOOP 1604</u> \_\_\_\_\_STATE: <u>TEXAS</u> ZIP: <u>78218</u>

PHONE# (210) 496-2668 FAX# \_\_\_\_ SAWS BLOCK MAP#68560 TOTAL EDU'S 112 TOTAL ACREAGE 21.9 TOTAL LINEAR FOOTAGE OF PIPE: <u>8" 3322 LF</u> PLAT NO.<u>24-11800437</u> NUMBER OF LOTS 112 SAWS JOB NO. 24-1650

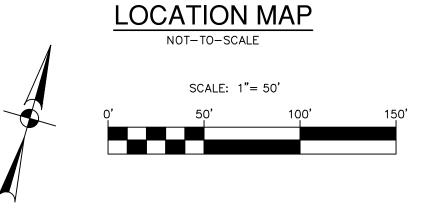
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- 1. CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURB WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
- 2. CONDUITS SHALL BE PVC WITH MINIMUM BURY OF 36 INCHES BELOW PROPOSED FINISHED GRADE. SCHEDULE 80 TO BE USED FOR CPS CONDUITS,
- SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.
- 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 EMPLOYER OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THI 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 II ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND

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

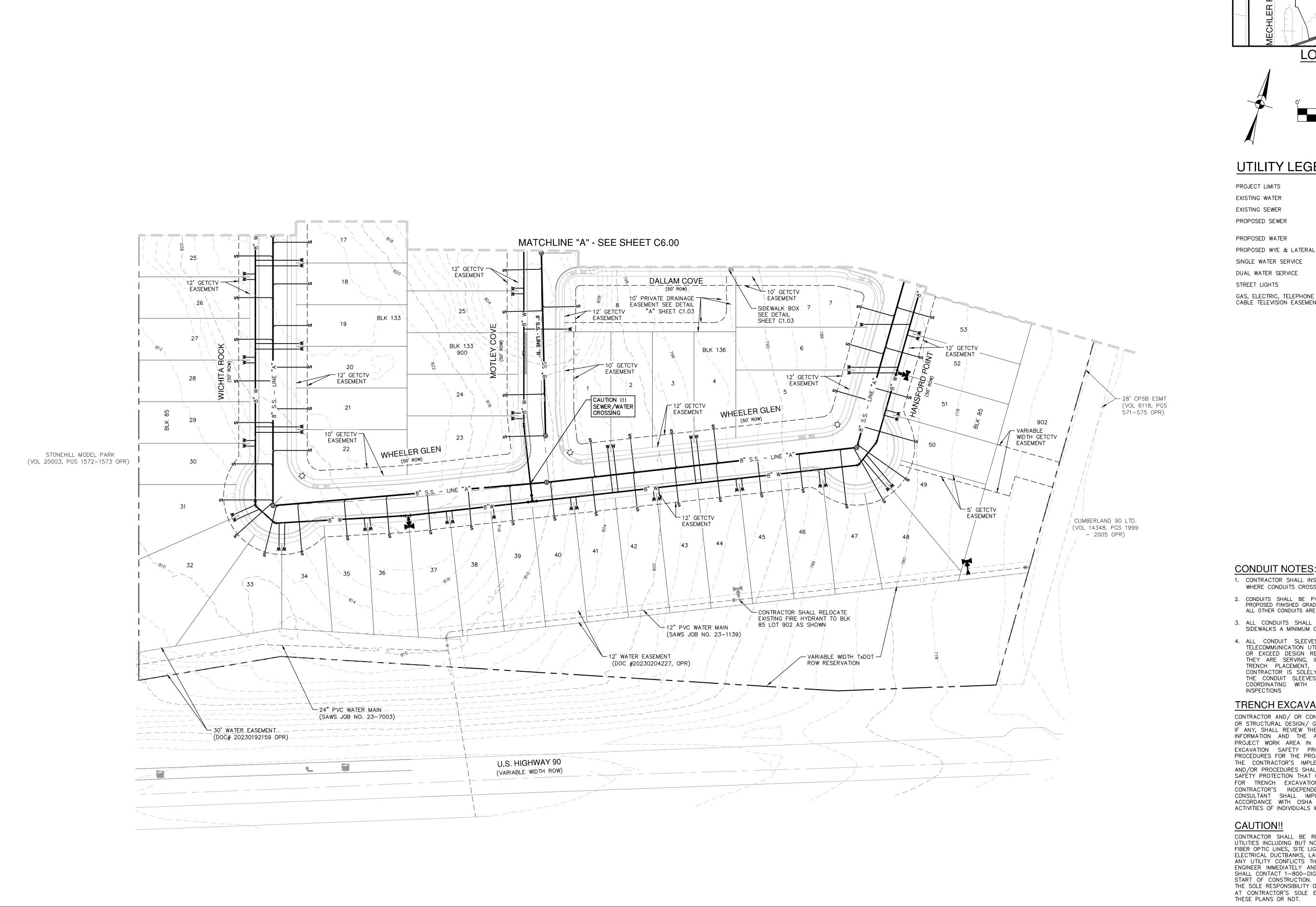
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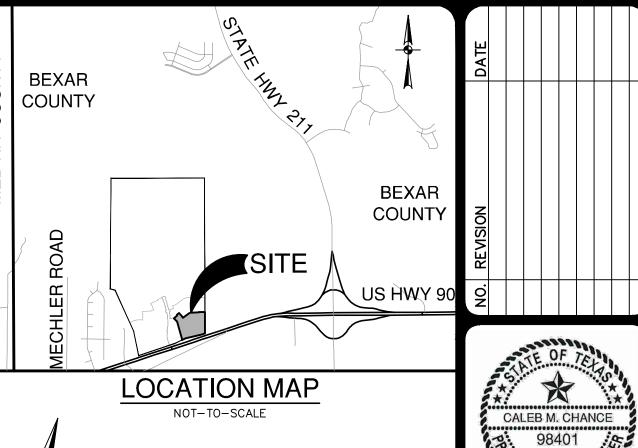
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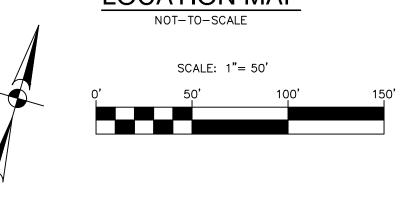
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# **UTILITY LEGEND**

PROJECT LIMITS EXISTING WATER ----EXISTING SEWER PROPOSED SEWER PROPOSED WATER PROPOSED WYE & LATERAL SINGLE WATER SERVICE **-**[≰ DUAL WATER SERVICE -☆-sr STREET LIGHTS GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT **GETCTV** 

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- 1. CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURB WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
- 2. CONDUITS SHALL BE PVC WITH MINIMUM BURY OF 36 INCHES BELOW PROPOSED FINISHED GRADE. SCHEDULE 80 TO BE USED FOR CPS CONDUITS, 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, OF 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 INSPECTIONS

# TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYER 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 /OF PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

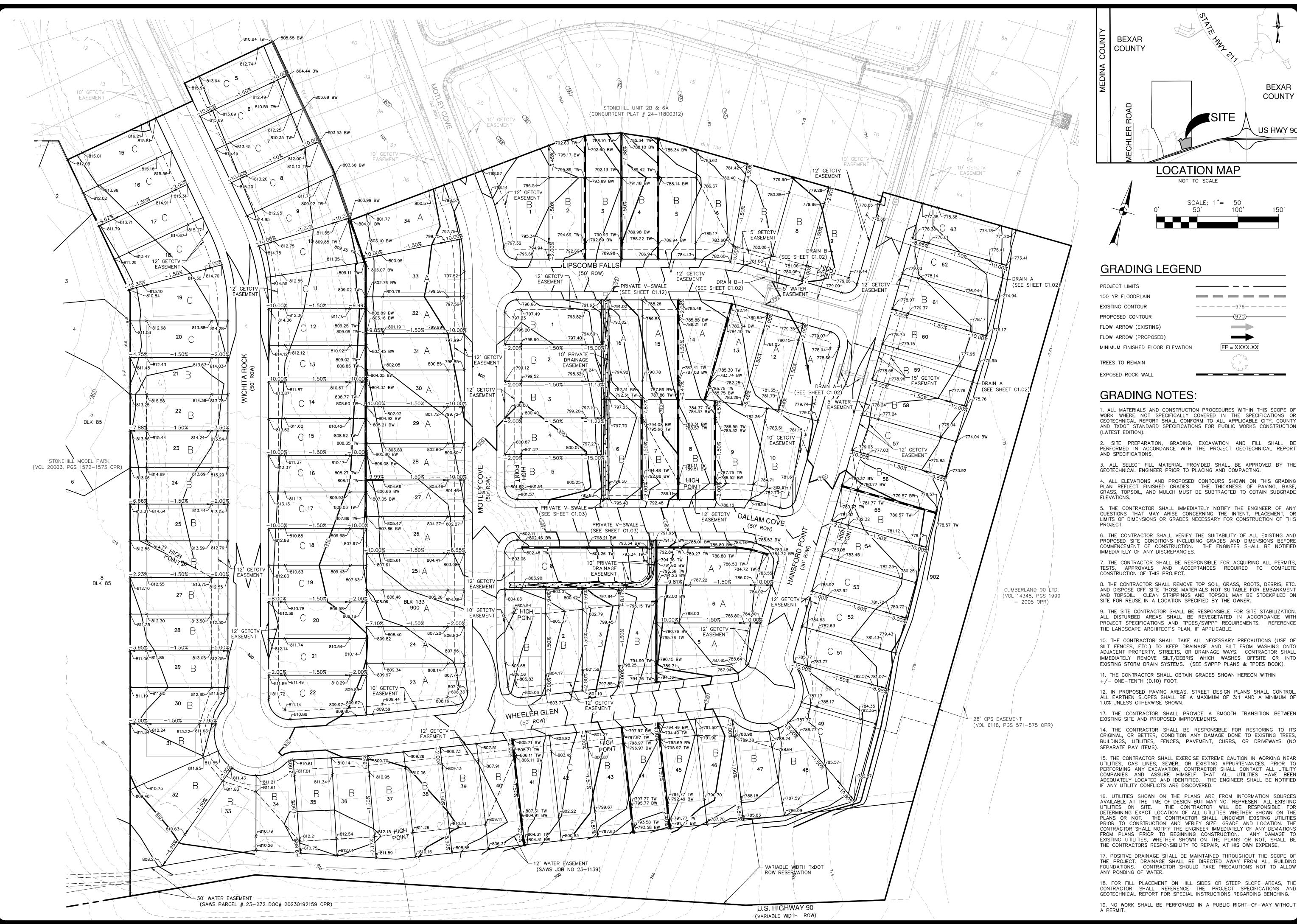
# CAUTION!!

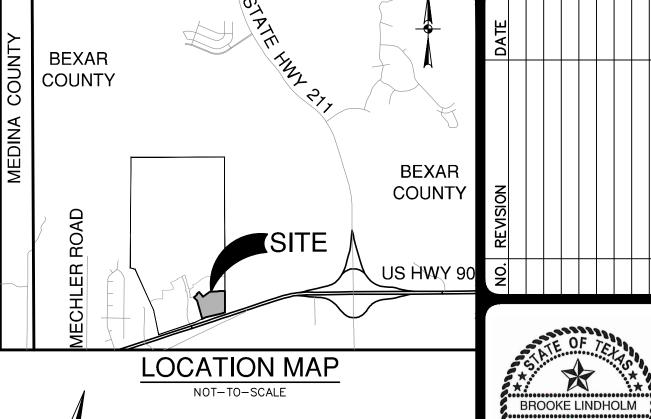
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO TH 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 BI AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

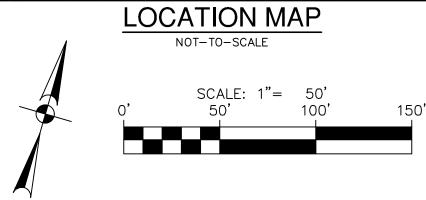
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# GRADING LEGEND

100 YR FLOODPLAIN EXISTING CONTOUR PROPOSED CONTOUR FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) FF = XXXX.XX MINIMUM FINISHED FLOOR ELEVATION TREES TO REMAIN

# **GRADING NOTES:**

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OF GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TXDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).

2. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.

3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY TH GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.

4. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING. BASE GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE

5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OF LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS

6. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED

IMMEDIATELY OF ANY DISCREPANCIES. 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS

TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT. 8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ET

SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER. 9. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION

ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.

10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE O SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INT EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).

11. THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN +/- ONE-TENTH (0.10) FOOT.

12. IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1.0% UNLESS OTHERWISE SHOWN.

13. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO IT ORIGINAL, OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).

15. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.

16. UTILITIES SHOWN ON THE PLANS ARE FROM INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN ON TH PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION AND VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE T EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL B THE CONTRACTORS RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.

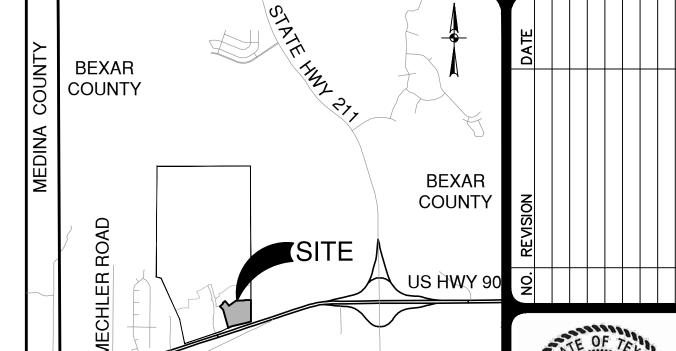
17. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE ( THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.

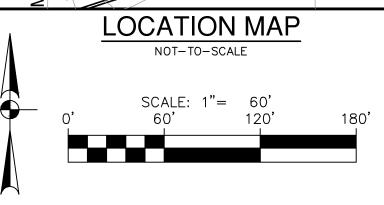
18. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AN GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING. 19. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT

24-11800437 JOB NO. 12456-14 ATE NOVEMBER 2024

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# CALEB M. CHANCE 98401

# **SWPPP LEGEND**

FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) -//-//-//-//-**\*\*\*** GRATE INLET PROTECTION SEDIMENT CONTROL ROLLS LIMITS OF DISTURBED AREA STABILIZED CONSTRUCTION ENTRANCE/EXIT CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)

# GENERAL NOTES

ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.

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

3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO E 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 I 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

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 E COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE

9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.

WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES

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 SHAL 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 A 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. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER

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

PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR 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

NO 24-11800437 12456-14 ATE NOVEMBER 2024 ESIGNER

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SCHEMATIC OF TEMPORARY CONSTRUCTION ENTRANCE/EXIT

**MATERIALS** THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.

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.

2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF

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

CORRECTLY.

1. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.

2. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER. 3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.

THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE 6-INCHES TO 8-INCHES HIGH WITH 3:1 (H: V) SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.

5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.

6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE

SURFACE SMOOTH AND SLOPE FOR DRAINAGE.

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.

LAY SOD ACROSS THE

DIRECTION OF FLOW

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

SOIL.

STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT-TO-SCALE

APPEARANCE OF GOOD SOD

WITH NETTING. USE STAPLES.

SOON AS THE SOD IS LAID.

THE MOWER HIGH (2"-3").

1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE

3. MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET

2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS

SHOOTS OR GRASS BLADES.

CUTTING HEIGHT.

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"

# >2% GRADE GEOTEXTILE FABRIC TO 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. 4. PAD NOT FLARED SUFFICIENTLY AT ROAD SURFACE, RESULTS IN MUD BEING TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD.

5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER PAD AND/OR IMPROVE FOUNDATION DRAINAGE.

INSPECTION AND MAINTENANCE GUIDELINES THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES

USED TO TRAP SEDIMENT 2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR. 3. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT

PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. 4. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

DITCH OR WATER COURSE BY USING APPROVED METHODS.

5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, 6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.

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,

A SILT FENCE IS A BARRIER CONSISTING OF GEOTEXTILE FABRIC SUPPORTED

WHEN PROPERLY USED, SILT FENCES CAN BE HIGHLY EFFECTIVE AT

CONTROLLING SEDIMENT FROM DISTURBED AREAS. THEY CAUSE RUNOFF TO

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

DRAINAGE WAY. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION,

CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING A ROCK BERM IN THE

SILT FENCING WITHIN THE SITE MAY BE TEMPORARILY MOVED DURING THE DAY

TO ALLOW CONSTRUCTION ACTIVITY PROVIDED IT IS REPLACED AND PROPERLY

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%,

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

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

. 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.

AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.

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

USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OF

BY METAL POSTS TO PREVENT SOIL AND SEDIMENT LOSS FROM A SITE.

WOVEN WIRI

ISOMETRIC PLAN VIEW

THE PURPOSE OF A ROCK BERM IS TO SERVE AS A CHECK DAM IN AREAS

OF CONCENTRATED FLOW, TO INTERCEPT SEDIMENT—LADEN RUNOFF, DETAIN

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

INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE

RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY

. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES

AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT

EROSION AND SEDIMENT CONTROL MEASURES FARTHER UP THE WATERSHED.

INSPECTION AND MAINTENANCE GUIDELINES

THE SEDIMENT AND RELEASE THE WATER IN SHEET FLOW. THE ROCK BERM

**ROCK BERMS** 

INSPECTIONS SHOULD BE MADE.

SILT FENCE

AREAS OF CONCENTRATED FLOW.

2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

AT ANY TIME.

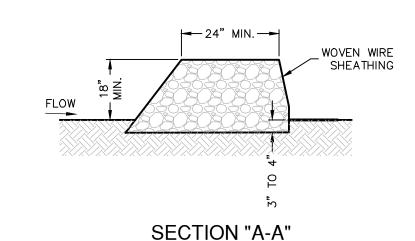
SHOULD BE 6 FEET.

WILL NOT CAUSE ANY ADDITIONAL SILTATION.

WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

3. REPAIR ANY LOOSE WIRE SHEATHING.

SHEATHING



# **MATERIALS**

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

THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE

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 A HEIGHT NOT LESS THAN 18".

4. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON. 5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE

6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

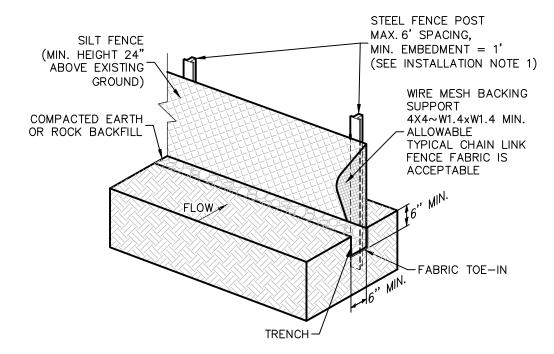
COMMON TROUBLE POINTS

. INSUFFICIENT BERM HEIGHT OR LENGTH (RUNOFF QUICKLY ESCAPES OVER THE TOP OR AROUND THE SIDES OF BERM).

2. BERM NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND ONE SIDE).

# **ROCK BERM DETAIL**

NOT-TO-SCALE



# ISOMETRIC PLAN VIEW

**MATERIALS** 1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH (± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE

2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH. WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE. STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN

SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION. 4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

SITE PREPARATION

SHOOT GROWTH AND THATCH.

PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN. THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL

INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

INSTALLATION IN CHANNELS

SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY (SEE FIGURE ABOVE).

2. AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. MESH OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL

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

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. DURING PERIODS OF HIGH TEMPERATURE, THE SOIL SHOULD BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD, TO COOL THE SOIL AND

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 OR 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 ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL. THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS

> 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.

NSPECTION AND MAINTENANCE GUIDELINES LOCATE AND REPAIR ANY DAMAGE.

RUTS OR DISTURBANCE OF SWALE STABILIZATION SHOULD BE REPAIRED AS SOON AS PRACTICAL.

SOD INSTALLATION DETAIL

NOT-TO-SCALE

## IN CRITICAL AREAS, SECURE SOD WITH THE GROUND. 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

CORRECT

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

THE STRIPS ARE LONG. WHEN READY TO

MOW, DRIVE PEGS OR STAPLES FLUSH

REDUCE ROOT BURNING AND DIEBACK.

THE 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).

AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT

UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE

SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO

. DAMAGE FROM STORMS OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS TIRE

SILT FENCE DETAIL

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.

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

4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE

POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET. 6. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

COMMON TROUBLE POINTS FENCE NOT INSTALLED ALONG THE CONTOUR CAUSING WATER TO CONCENTRATE AND FLOW OVER THE FENCE.

2. FABRIC NOT SEATED SECURELY TO GROUND (RUNOFF PASSING UNDER FENCE). 3. FENCE NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING

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

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

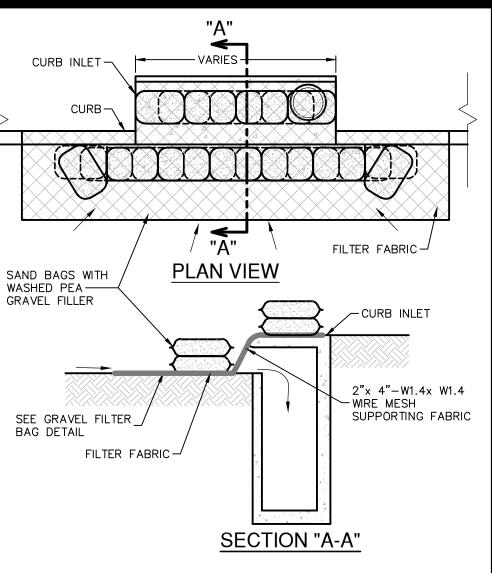
2. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.

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

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

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

NOT-TO-SCALE



**GENERAL NOTES** 

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

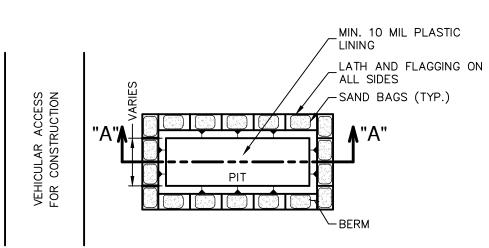
2. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

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

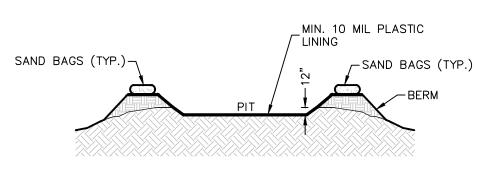
4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING. 5. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

# BAGGED GRAVEL CURB INLET PROTECTION DETAIL

NOT-TO-SCALE



**PLAN VIEW** 



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.

SECTION "A-A'

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** 

BACKFILLED AND REPAIRED.

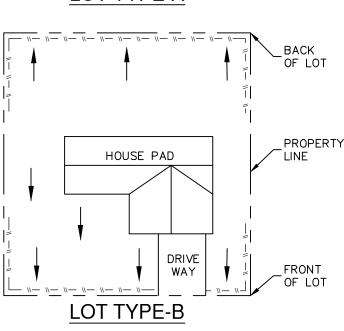
WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF. . MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED . HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES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

> CONCRETE TRUCK WASHOUT PIT DETAIL

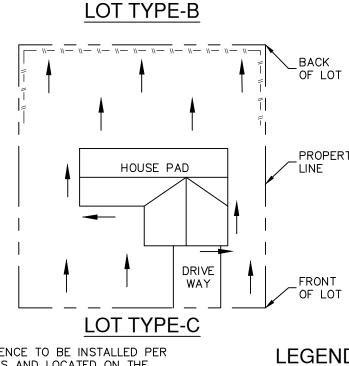
> > NOT-TO-SCALE

REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE

OF LOT PROPERTY HOUSE PAD DRIVE WAY LOT TYPE-A

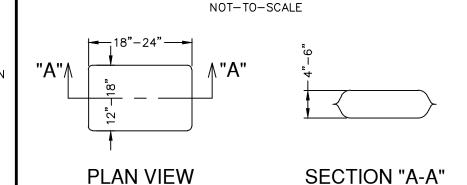


CALEB M. CHANCE



NOTE: SILT FENCE TO BE INSTALLED PER THESE DETAILS AND LOCATED ON THE DOWNGRADIENT SIDE OF EACH LOT LINE —" -" -" — SILT FENCE OR LIMITS OF CLEARING AS GENERALLY → DRAINAGE FLOY SHOWN ON THE OVERALL SITE PLAN.

TYPICAL HOUSE LOT LAYOUTS

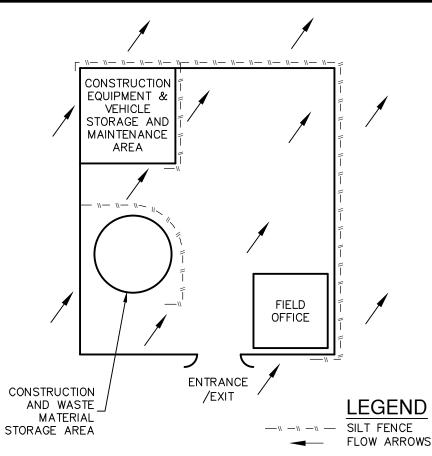


THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MIN. UNIT WEIGHT OF 4 OUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.

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

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.

NOT-TO-SCALE

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

**EXHIBIT** 

NOVEMBER 2024 SIGNER IECKED BL DRAWN KO C8.10

NO 24-1180043

12456-14

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