

STREET AND DRAINAGE CONSTRUCTION PLANS

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GUADALUPE COUNTY MUNICIPAL UTILITY DISTRICT #15

CIVIL CONSTRUCTION DOCUMENTS
STETSON RIDGE, UNIT 2

DISTRICT:
GUADALUPE COUNTY MUNICIPAL UTILITY
DISTRICT #15
CONTACT PERSON: JUNIANNE B. KUGLE, SK LAW
1330 POST OAK BLVD, SUITE 2650
HOUSTON, TX 77056
PH: (713) 850-9000

DEVELOPER:
MERITAGE HOMES OF TEXAS, L.L.C.
CONTACT PERSON: TONDA ALEXANDER
2722 W. BITTERS ROAD, SUITE 200
SAN ANTONIO, TX 78248
PH: (210) 298-4294

DESIGN ENGINEER:
CUDE ENGINEERS
CONTACT PERSON: XAVIER VASQUEZ
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TEXAS 78231
PHONE: (210) 681-2951

SURVEYOR:
CUDE ENGINEERS
CONTACT PERSON: CHRIS WALTERSCHEIDT
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TEXAS 78231
PHONE: (210) 681-2951

DISTRICT ENGINEER:
CUDE ENGINEERS
CONTACT PERSON: JEFFREY MCKINNIE
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TEXAS 78231
PHONE: (210) 681-2951



LOCATION MAP
N.T.S.

DISTRICT ENGINEER'S APPROVAL

THESE PLANS HAVE BEEN REVIEW AND APPROVED BY _____ ON _____
REVIEW OF THE PLANS BY THE DISTRICT IS LIMITED TO STREETS, WATER, WASTEWATER, AND DRAINAGE AND DOES
NOT INDICATE A REVIEW OF THE ADEQUACY OF THE DESIGN FOR THE FACILITIES. IN APPROVING THESE PLANS, THE
DISTRICT MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

DISTRICT ENGINEER

LEGAL DESCRIPTION:

STETSON RIDGE, UNIT 2
BEING 10.72 ACRES OF LAND OUT OF THE J.M. THOMPSON SURVEY 105, ABSTRACT 312, SITUATED IN
GUADALUPE COUNTY, TEXAS, AND BEING ALL OF A CALLED 46.676 ACRE TRACT OF LAND RECORDED
VOLUME 599, PAGE 222 OF THE OFFICIAL PUBLIC RECORD OF GUADALUPE COUNTY, TEXAS

4122 Pond Hill Road, Suite 101

San Antonio, Texas 78231

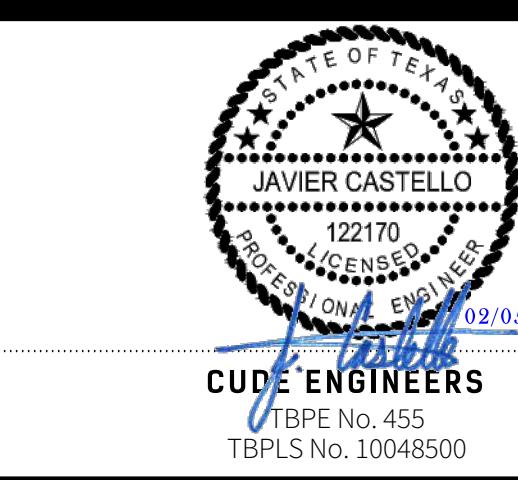
P: (210) 681.2951 F: (210) 523.7112

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CG/JG/LJ/TCD

DATE
02/05/2026

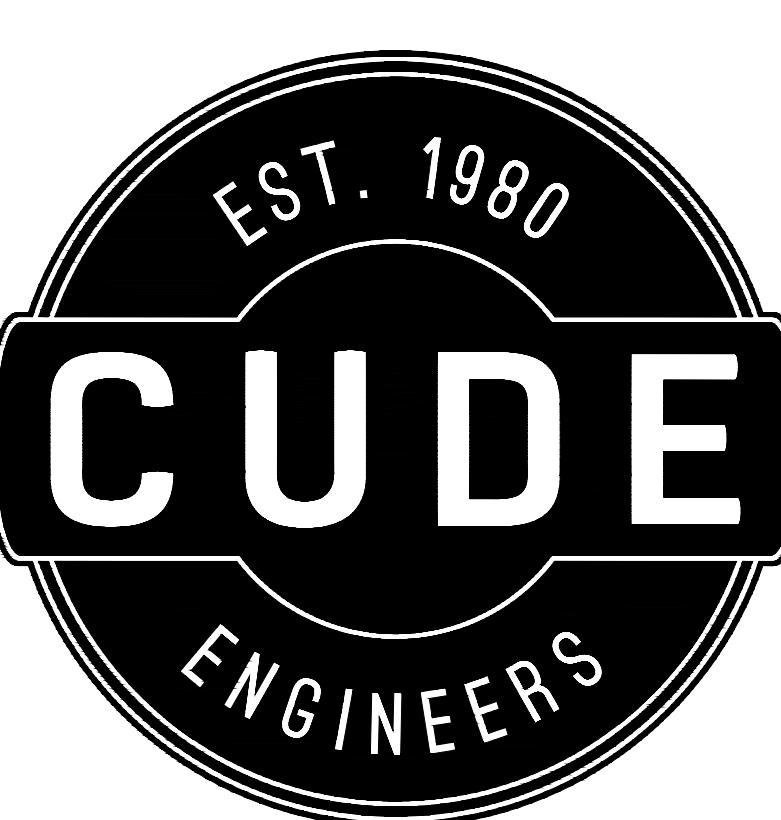
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XV/JC

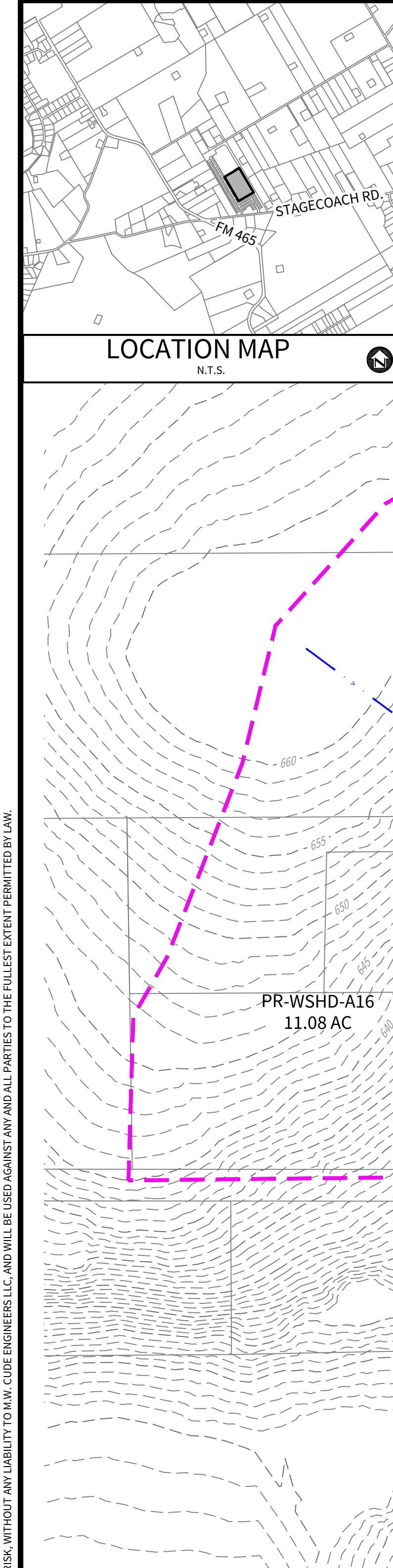
PROJECT NO.
04127.005



STETSON RIDGE
UNIT 2

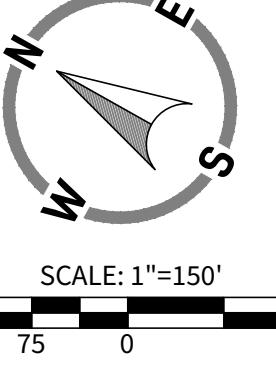
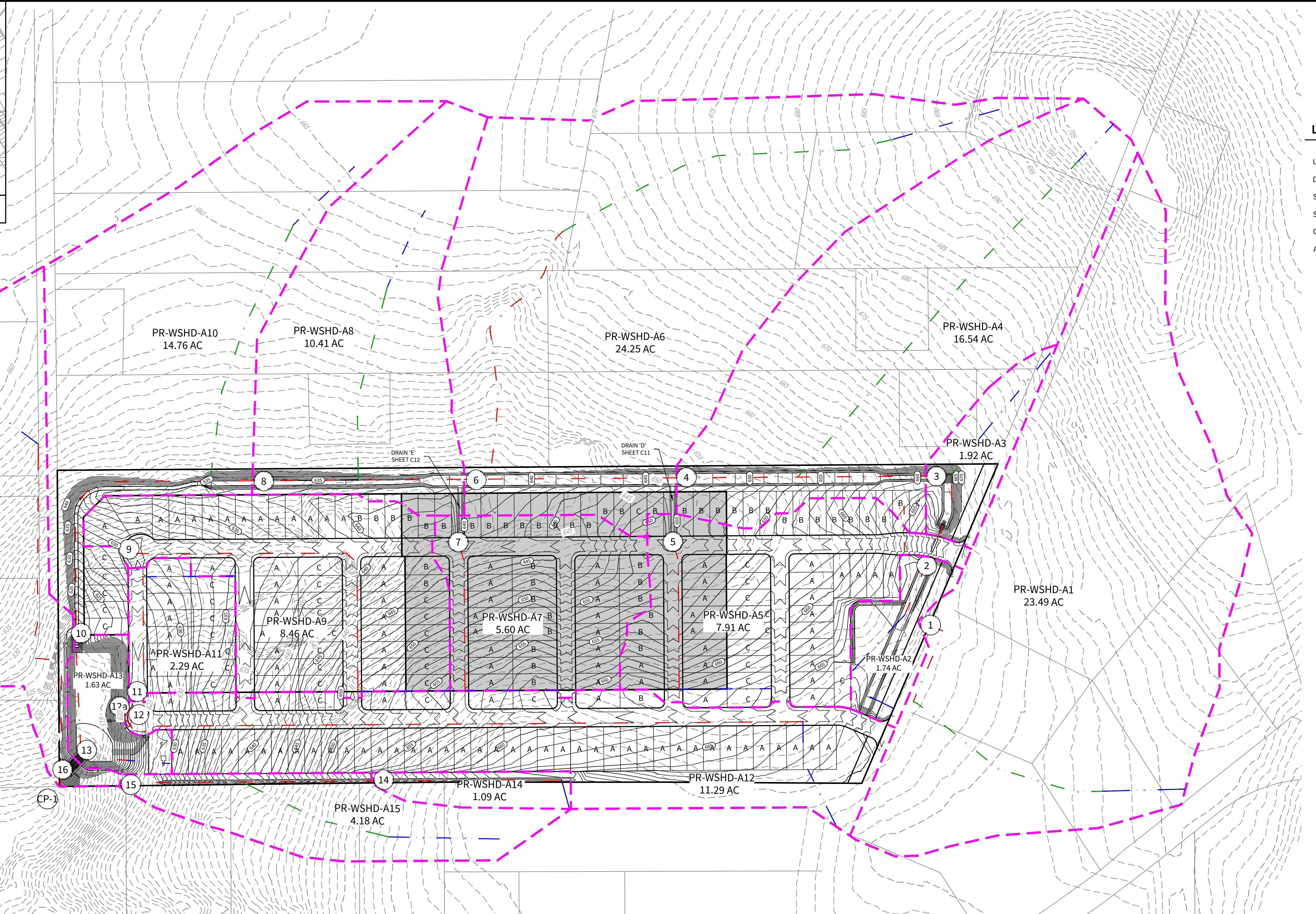
CONSTRUCTION PLANS





LOCATION MAP

N.T.S.



CUDEENGINEERS.COM
EST. 1980
CUDE
ENGINEERS

4122 Pond Hill Road, Suite 101
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LEGEND

- UNIT BOUNDARY: Dashed line
- DRAINAGE AREA BOUNDARY: Magenta dashed line
- Sheet Flow Tc PATH: Blue dashed line
- Shallow Conc. Tc PATH: Green dashed line
- Channel Conc. Tc PATH: Red dashed line
- ACCUMULATION POINT: XX

STETSON RIDGE UNIT 2

ULTIMATE MASTER DRAINAGE PLAN

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TCD
CHECKED BY
XV/JC

REVISIONS

DATE
1. 2. 3. 4. 5. 6. 7. 8. 9.
JAVIER CASTELLO
PROFESSIONAL ENGINEER
LICENSURE NO. 122170
12/16/2025
CUDE ENGINEERS
TPB No. 455
TPBL No. 10048500

C1

CUDEENGINEERS.COM

Project Name: Stetson Ridge Subdivision										Precipitation Area Atlas 14 = PA2												
Calculation Summary for Time of Concentrations & Ultimate Flow										HYDROLOGY												
Drainage Shed/Computation Point	Shed Area (Ac.)	AREA OF ACCUMULATION (Ac.)			Sheet Flow Tc Computations			Shallow Conc. Tc Computations			Concentrated Tc Computations			Overall		INTENSITY		Q FLOW		Draining Shed		
		C	Length: 300'	Hanning's n	Slope (%)	Time of Concentration	Length	Paved (ft or N)	Slope (%)	Time of Concentration	Length	Velocity (fps)	Time of Concentration	Length	Intensity	15	25	100	Q5	Q25	Q100	
A1/1	23.49	= A1	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.29%	5.33	278.00	6	0.77	26.07	4.00	5.54	6.90	61.07	84.59	105.35	A1/1
A2/-	1.74	= A2	0.65	140.00	0.13	3.49%	8.15	586.00	N	0.50%	0.00	409.00	6	1.14	9.28	6.54	9.13	11.56	7.40	10.33	13.07	A2/-
/2	25.23	= A1+A2	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.29%	5.33	492.00	6	1.37	26.66	3.95	5.48	6.82	64.78	89.87	111.84	/2
/3	27.15	= 2+A3	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.29%	5.33	794.00	6	2.21	27.50	3.89	5.39	6.72	68.65	95.12	118.59	/3
/4	16.54	= A4	0.65	140.00	0.13	1.71%	10.84	1143.00	N	0.39%	5.88	328.00	6	0.91	17.63	3.76	4.88	5.36	5.46	72.89	91.17	A4/-
/4/-	43.69	= 3+A4	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	1469.00	6	4.08	29.34	3.76	5.22	6.50	106.78	148.24	184.59	/4/-
A5/5	7.91	= A5	0.65	200.00	0.15	1.01%	19.95	10.00	N	2.00%	0.07	407.00	6	1.13	21.16	4.44	6.17	7.69	22.83	31.72	39.54	A5/5
A6/-	24.25	= A6	0.65	300.00	0.13	3.65%	14.72	94.00	N	2.26%	6.48	811.00	6	2.25	23.46	4.22	5.85	7.29	66.52	92.21	114.91	A6/-
/6	75.85	= 4+A5+A6	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	204.00	6	5.68	30.93	3.66	5.08	6.32	180.45	250.46	311.59	/6
A7/7	5.60	= A7	0.65	240.00	0.15	3.10%	14.74	10.00	N	2.00%	0.07	407.00	6	1.13	15.95	5.15	7.16	8.95	18.75	26.06	32.58	A7/7
A8/-	10.41	= A8	0.65	230.00	0.13	2.14%	14.74	535.00	N	3.90%	2.80	287.00	6	0.80	18.33	4.78	6.64	8.30	32.34	44.93	56.16	A8/-
/8	91.86	= 6+A7+A8	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	261.00	6	7.27	32.53	3.57	4.95	6.16	213.16	295.56	367.81	/8
A9/9	8.46	= A9	0.65	240.00	0.15	2.42%	16.28	10.00	N	2.00%	0.07	984.00	6	2.73	19.08	4.68	6.50	8.12	25.74	35.74	44.65	A9/9
A10/-	14.76	= A10	0.65	230.00	0.13	2.14%	14.74	73.00	N	2.97%	4.41	782.00	6	2.17	21.32	4.43	6.14	7.66	42.59	58.91	73.49	A10/-
/10	115.08	= 8+A9+A10	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	3469.00	6	9.64	34.89	3.44	4.77	5.94	257.32	356.81	444.32	/10
A11/11	2.29	= A11	0.65	240.00	0.15	2.23%	16.82	10.00	N	2.00%	0.07	340.00	6	0.94	17.84	4.85	6.74	8.42	7.22	10.03	12.53	A11/11
A12/12	11.29	= A12	0.65	300.00	0.13	2.55%	16.99	N	2.00%	0.00	1884.00	6	5.23	22.23	4.33	6.01	7.49	31.78	44.10	54.97	A12/12	
/12A	13.58	= A11+A12	0.65	300.00	0.13	2.55%	16.99	N	2.00%	0.00	1884.00	6	5.23	22.23	4.33	6.01	7.49	38.22	53.05	66.11	/12A	
A13/-	1.63	= A13	0.65	116.00	0.13	7.62%	5.13	N	0.50%	0.00	124.00	6	0.34	5.47	3.76	4.95	6.16	213.16	295.56	367.81	/13	
/13	130.29	= 10+A12+A13	0.65	224.00	0.13	0.95%	19.97	586.00	N	1.31%	5.29	3670.00	6	10.19	35.45	3.41	4.73	5.89	288.79	400.58	498.82	/13
A14/14	1.09	= A14	0.65	78.25	0.13	0.95%	11.13	0.00	N	2.00%	0.00	515.00	6	1.43	12.56	5.80	6.09	7.10	4.11	5.73	7.22	A14/14
A15/-	4.18	= A15	0.65	306.00	0.13	2.02%	18.65	426.00	N	4.91%	1.99	330.00	6	0.92	21.56	4.40	6.11	7.61	11.95	16.60	20.68	A15/-
/15	5.27	= A14+A15	0.65	306.00	0.13	2.02%	18.65	426.00	N	4.91%	1.99	330.00	6	0.92	21.56	4.40	6.11	7.61	15.07	20.93	26.07	/15
A16/16	11.08	= A16	0.65	250.00	0.13	2.50%	14.80	N	2.00%	0.00	1099.00	6</td										

KEYNOTES:

- 1** CONTRACTOR TO INSTALL 5' X 5' SIDEWALK
PASSING SPACE WITH HOMEBUILDING
- 2** CONTRACTOR TO INSTALL 5' X 5' SIDEWALK
PASSING SPACE WITH INFRASTRUCTURE

NOTE

1. PRIOR TO THE COMMENCEMENT OF ANY WORK, THE COUNTY SHALL ATTEND A PRECONSTRUCTION MEETING INCLUDING (BUT NOT LIMITED TO) THE CITY, ENGINEER, CONTRACTOR, DEVELOPER'S INSPECTION REPRESENTATIVE, AND DEVELOPER'S CONSTRUCTION MATERIAL TESTING REPRESENTATIVE.

2. DURING CONSTRUCTION, NOTIFY THE COUNTY AT CONSTRUCTION@GUADALUPETX.GOV AT LEAST 48 HOURS IN ADVANCE OF ANY WORK TO BE PERFORMED AFFECTING SUBGRADE, BASE, OR PAVEMENT INCLUDING BACKFILL OF ANY PROPOSED UTILITIES UNDERNEATH THE PAVEMENT AND FILL AREAS UPON WHICH PAVEMENT IS PROPOSED TO BE PLACED. SUCH NOTIFICATION IS ALSO REQUIRED BEFORE IMPLEMENTING ANY APPROVED TRAFFIC CONTROL PLANS ON EXISTING COUNTY-MAINTAINED ROADS. FULL CLOSURE OF COUNTY ROADS REQUIRES AT LEAST ONE MONTH ADVANCE NOTICE AND IS SUBJECT TO THE DISCRETION OF THE COUNTY ENGINEER AND POSSIBLE APPROVAL BY GUADALUPE COUNTY COMMISSIONERS COURT PER TRANSPORTATION CODE, CHAPTER 251.

3. DURING CONSTRUCTION, PROVIDE ALL INSPECTION AND TESTING REPORTS TO THE COUNTY AT CONSTRUCTION@GUADALUPETX.GOV AS SOON AS AVAILABLE FOR IDENTIFICATION AND CORRECTION OF ANY EMERGING DEFICIENCIES.

4. PROVIDE AS-BUILT DRAWINGS WITHIN 10 BUSINESS DAYS OF THE COMPLETION OF CONSTRUCTION.

5. CONTRACTOR TO ENSURE STRICT ADHERENCE TO THE PAVEMENT GRADE TO ENSURE CORRECT FLOW. PONDING OF WATER ON THE STREET SURFACE WILL NOT BE ALLOWED.

LEGEND

PAVEMENT GUTTER LINE

DRIVEWAY TO BE BUILT WITH HOMEBUILDING

STREET WASHOUT - SEE DETAIL SHEET C7

SIDEWALK TO BE CONSTRUCTED WITH INFRASTRUCTURE

ADA SIDEWALK CURB RAMP - SEE DETAIL SHEET C8

5'X5' SIDEWALK PASSING SPACE - SEE DETAIL SHEET C7

ONLY ADA RAMPS WITH A 900 SERIES OPEN SPACE WILL BE BUILT WITH INFRASTRUCTURE

HARNESS PASS

STA. 1+75.00 TO STA. 5+65.00

E: GUADALUPE COUNTY DOES NOT MAINTAIN SIDEWALKS, CURB AND GUTTER, CURB
PS, PAVERS, LUMINAIRES, STORM WATER, OR DETENTION APPURTENANCES.

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

STETSON RIDGE

UNIT 2

CUDEENGINEERS.C

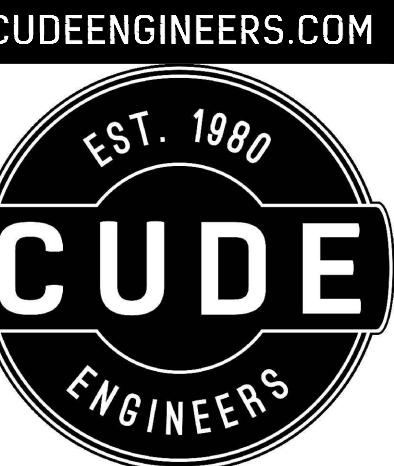
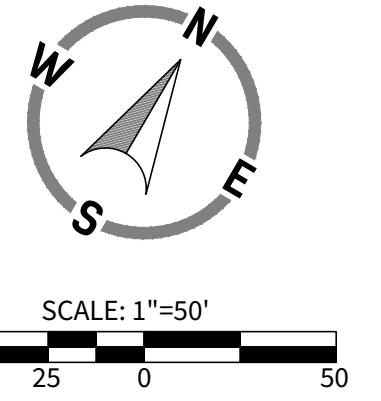
KEYNOTES:

1 CONTRACTOR TO INSTALL 5' X 5' SIDEWALK PASSING SPACE WITH HOMEBUILDING

2 CONTRACTOR TO INSTALL 5' X 5' SIDEWALK PASSING SPACE WITH INFRASTRUCTURE

NOTES:

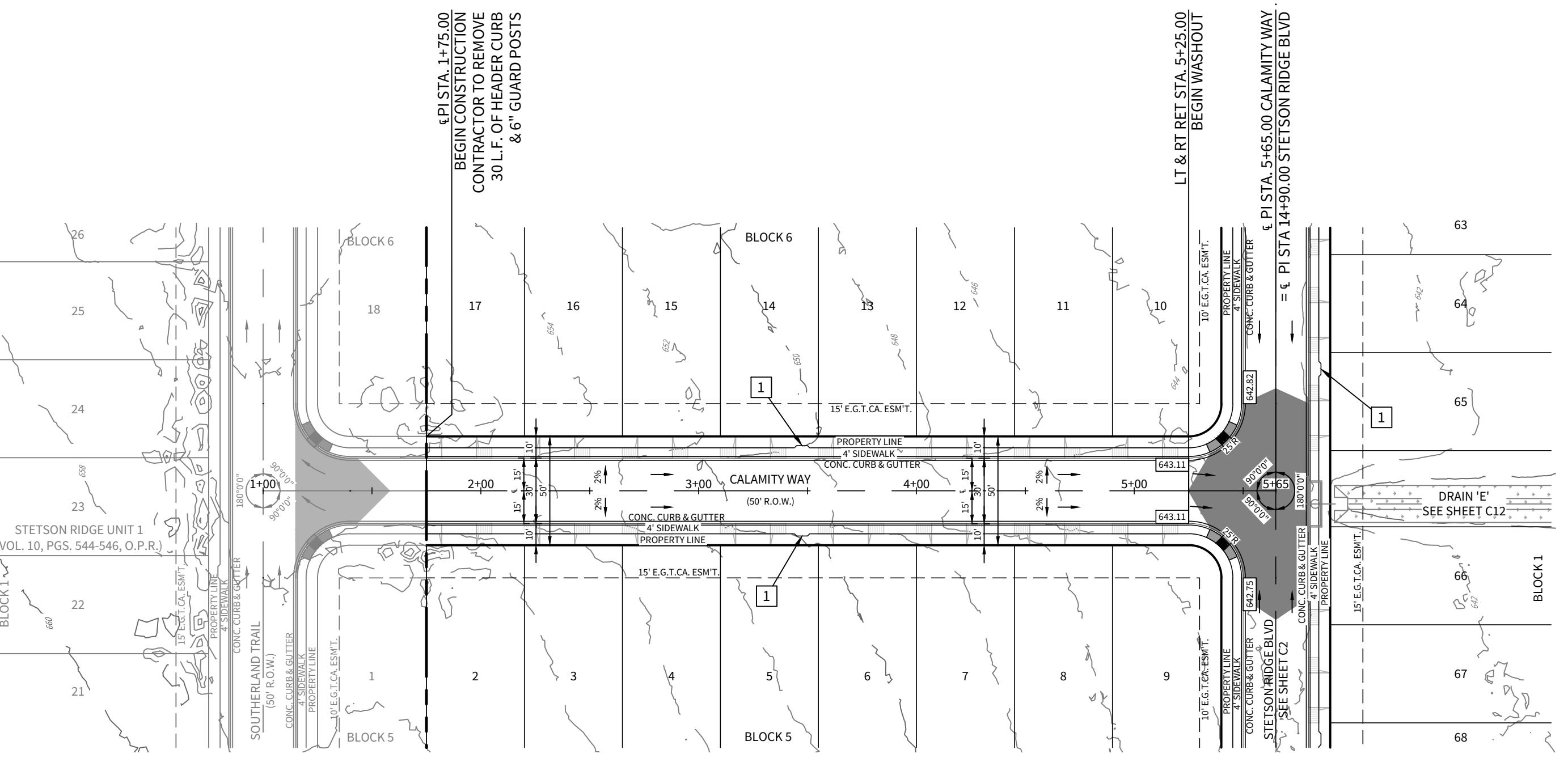
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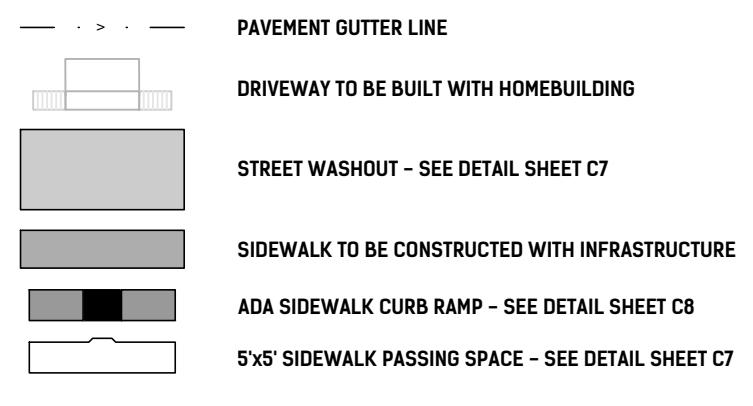
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San Antonio, Texas 78231
P:(210) 681.2951 F: (210) 523.7112

**STETSON RIDGE
UNIT 2**

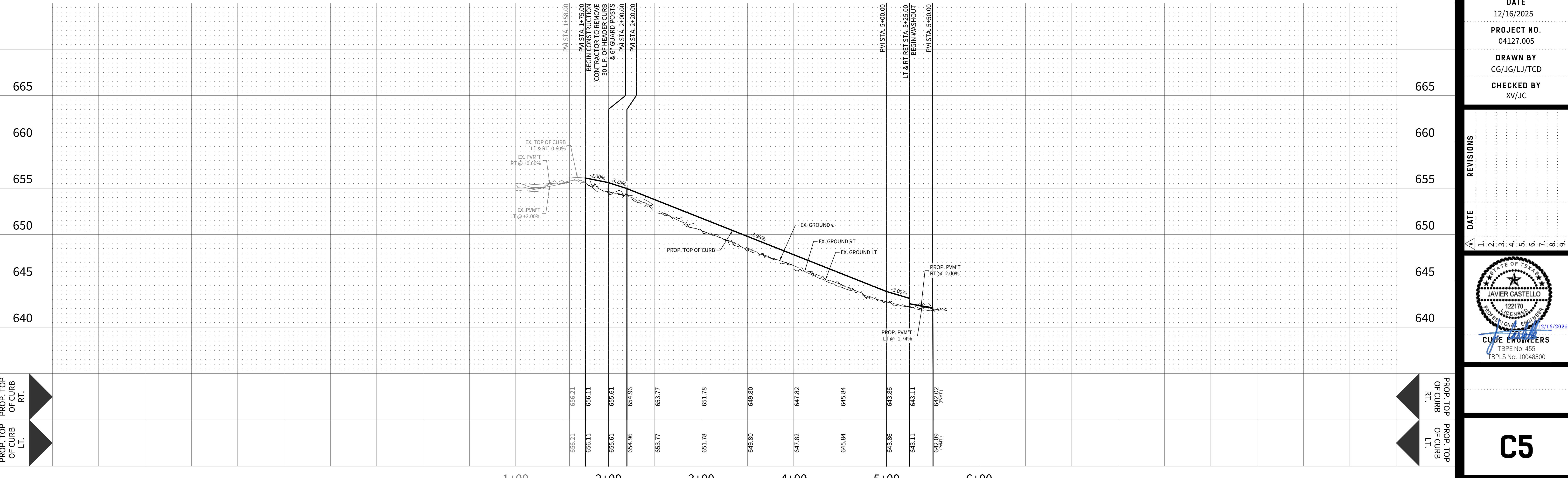
STREET PLAN & PROFILE - CALAMITY WAY



LEGEND

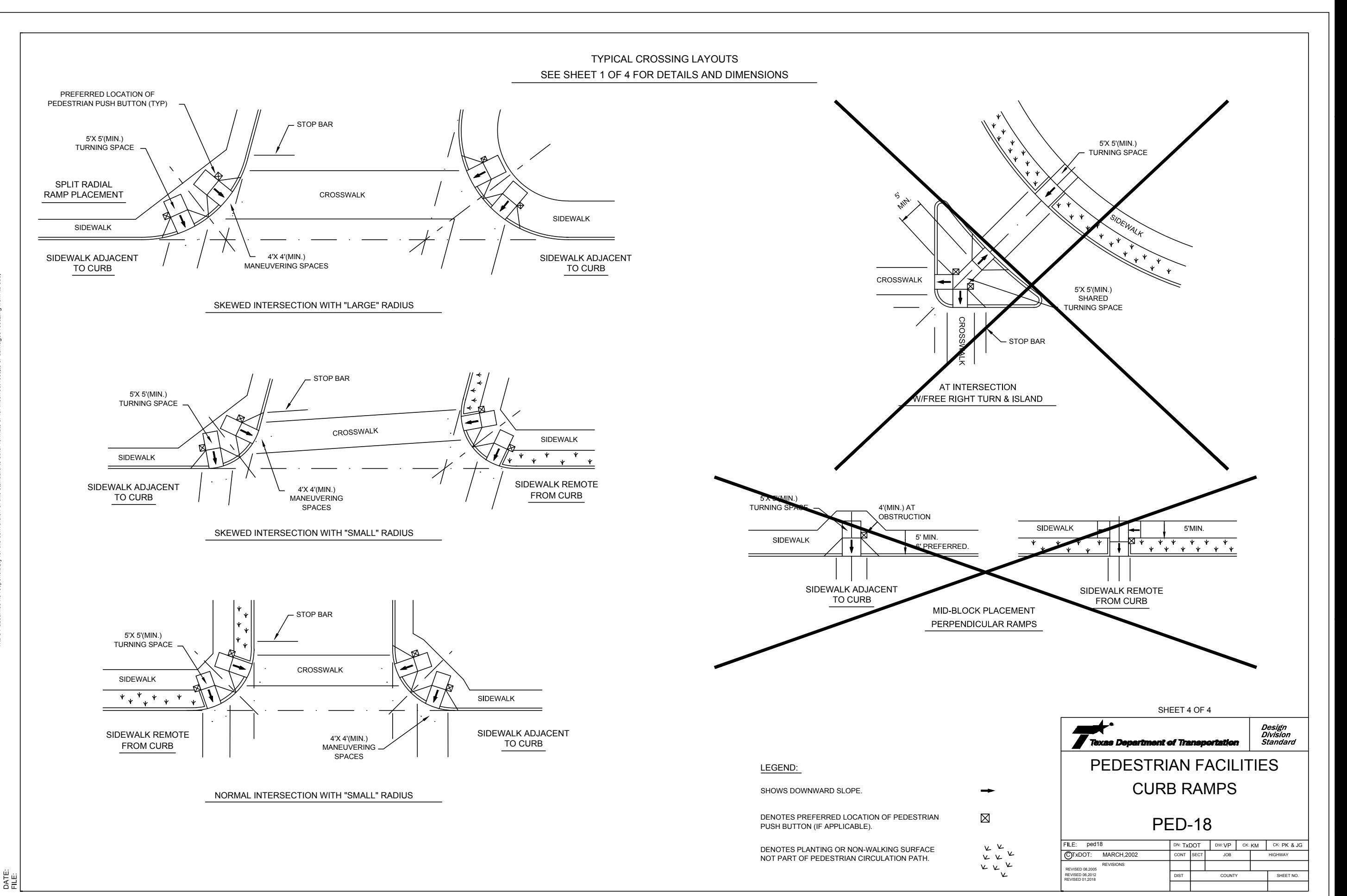
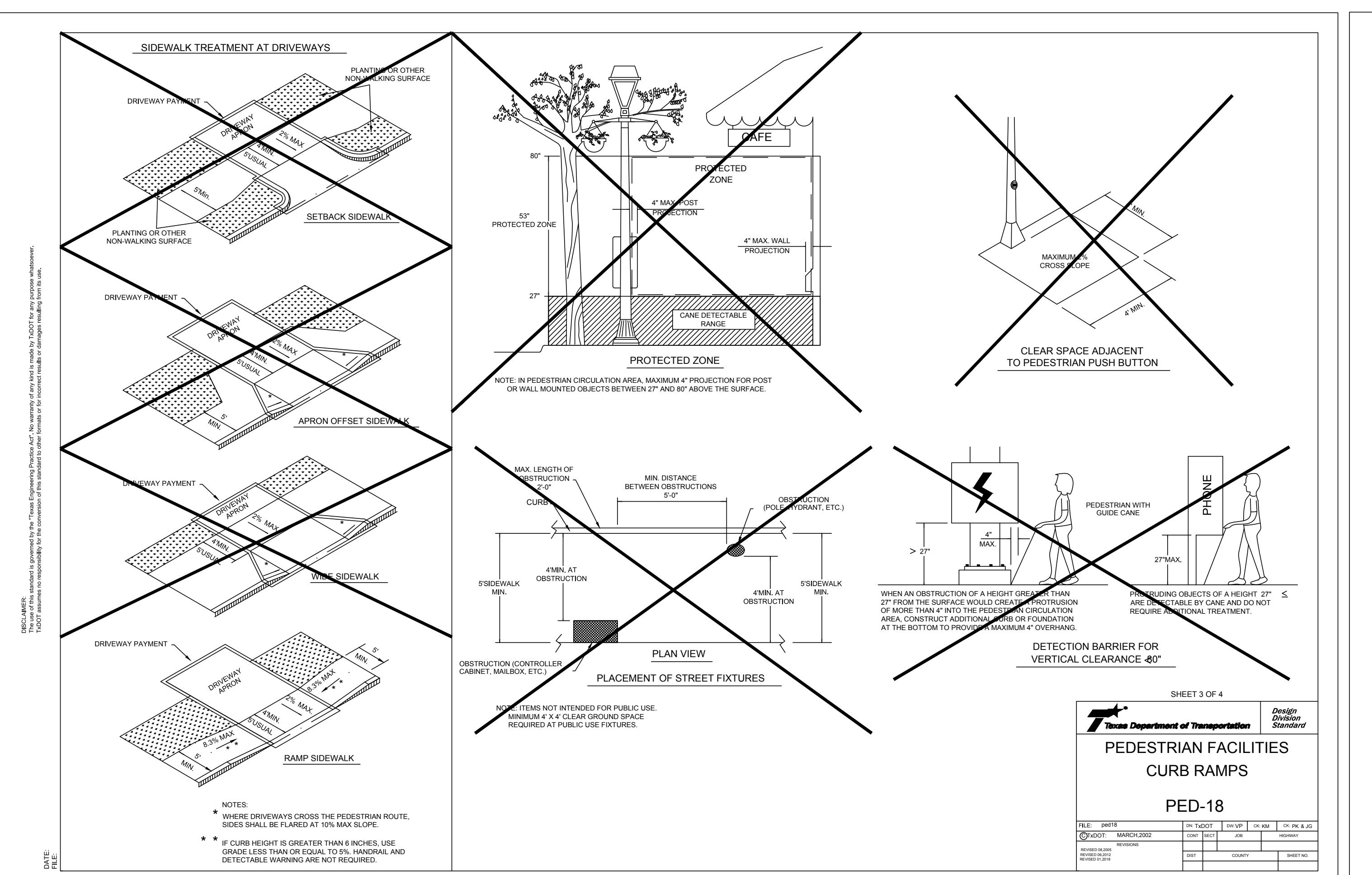
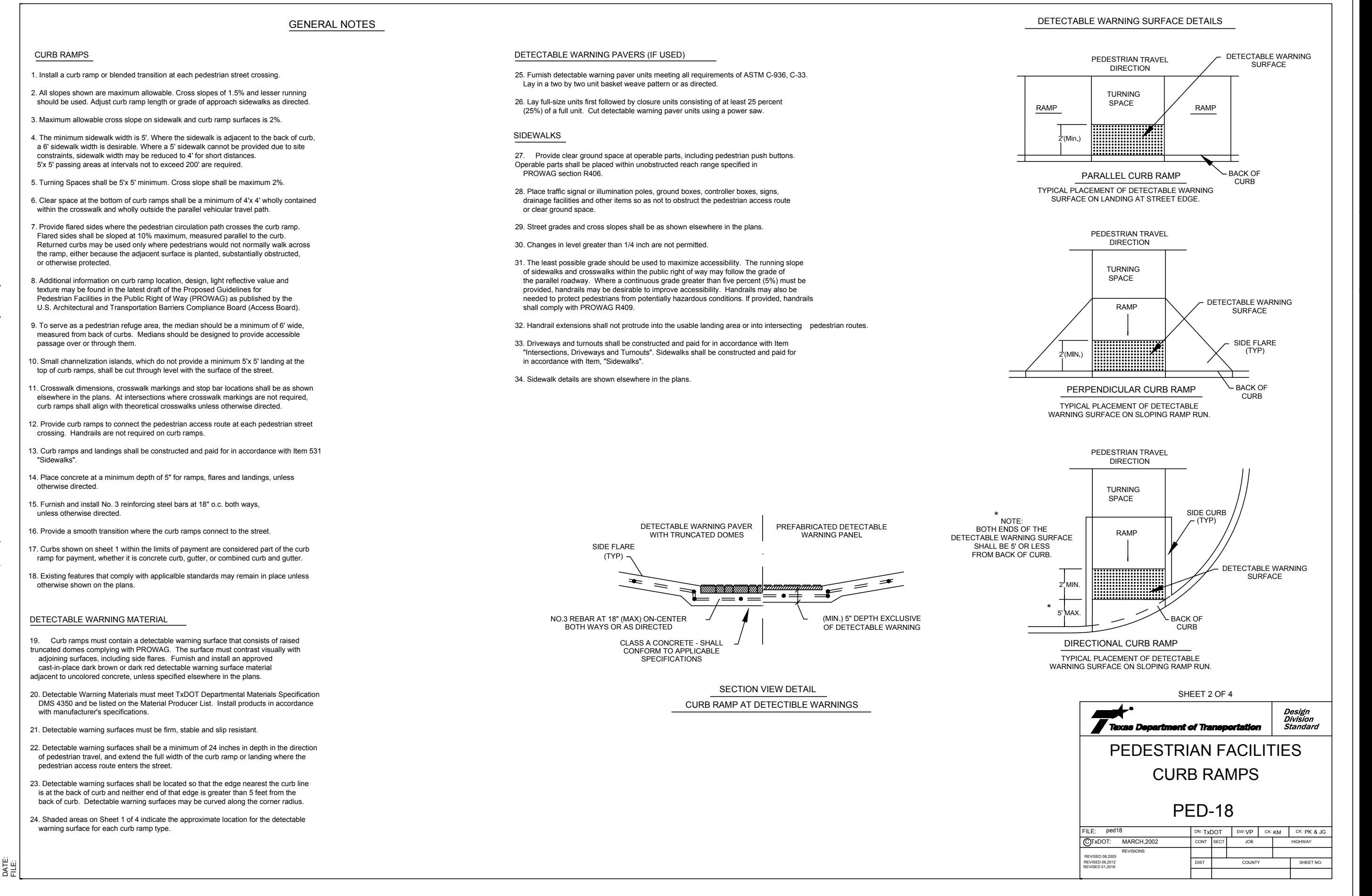
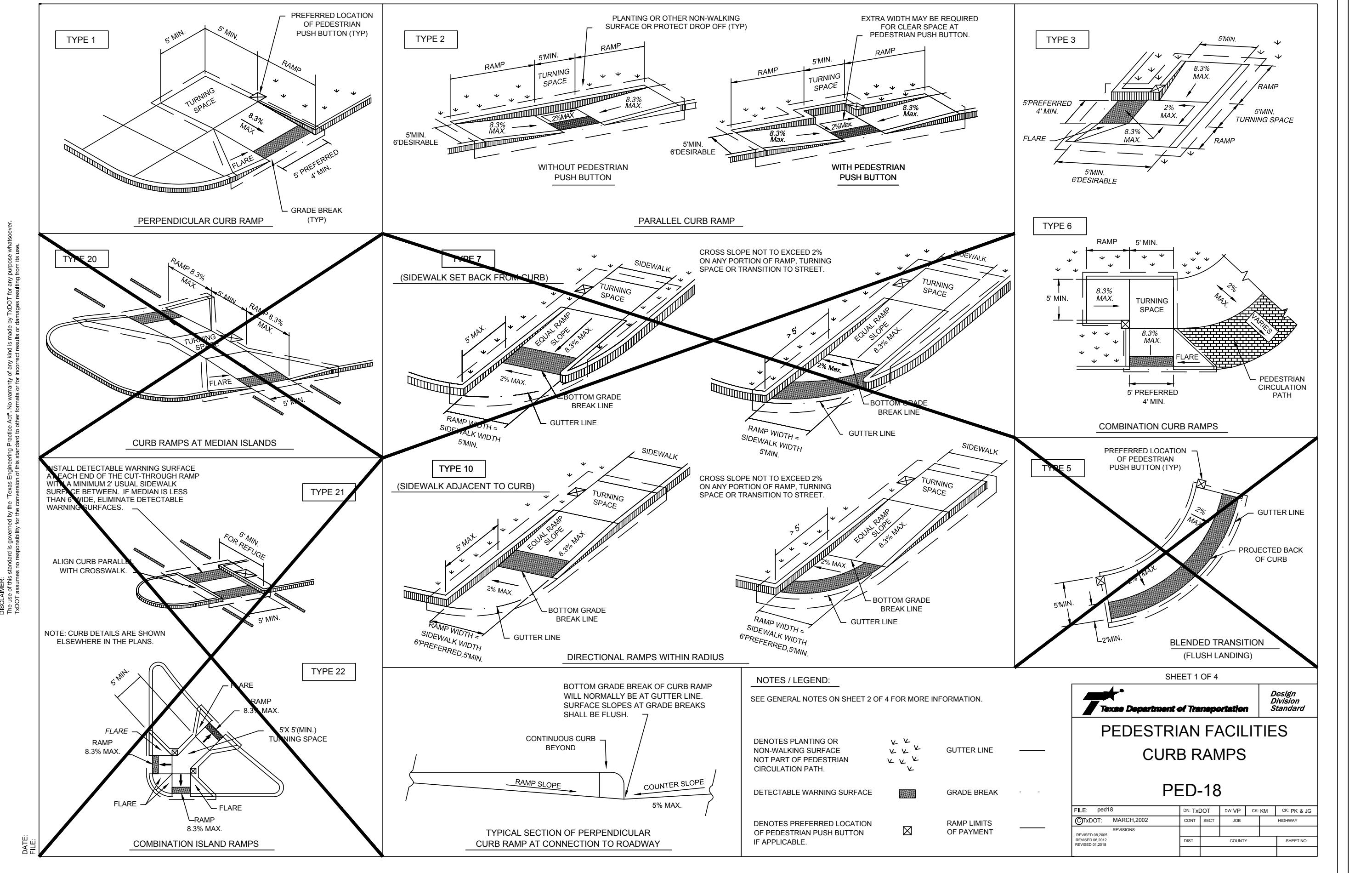


ONLY ADA RAMPS WITH A 900 SERIES OPEN SPACE WILL BE BUILT WITH INFRASTRUCTURE



**STETSON RIDGE
UNIT 2**

TXDOT DETAILS - PEDESTRIAN FACILITIES - PED-18



**STETSON RIDGE
UNIT 2**

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TCD
CHECKED BY
XV/JC

REVISIONS

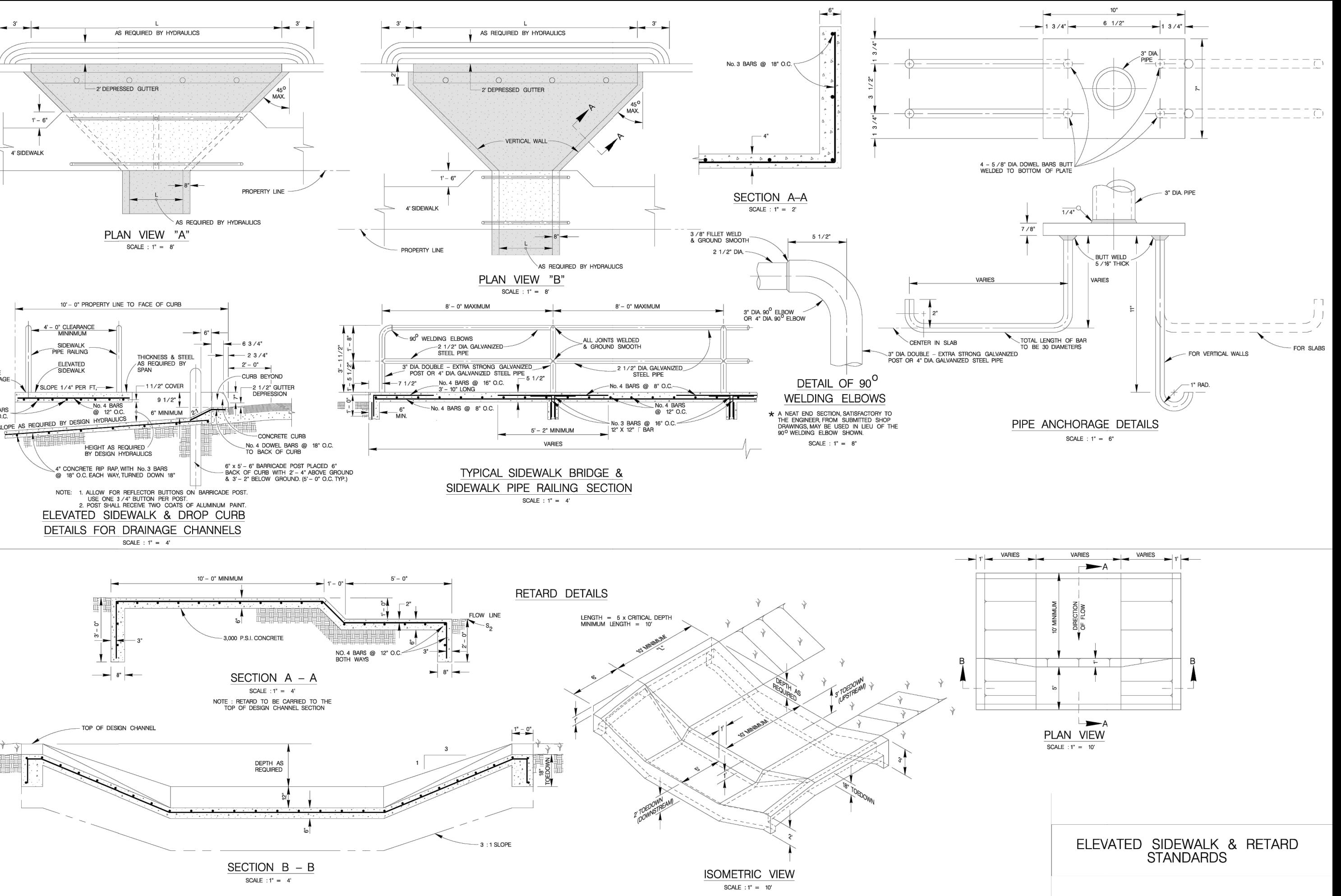
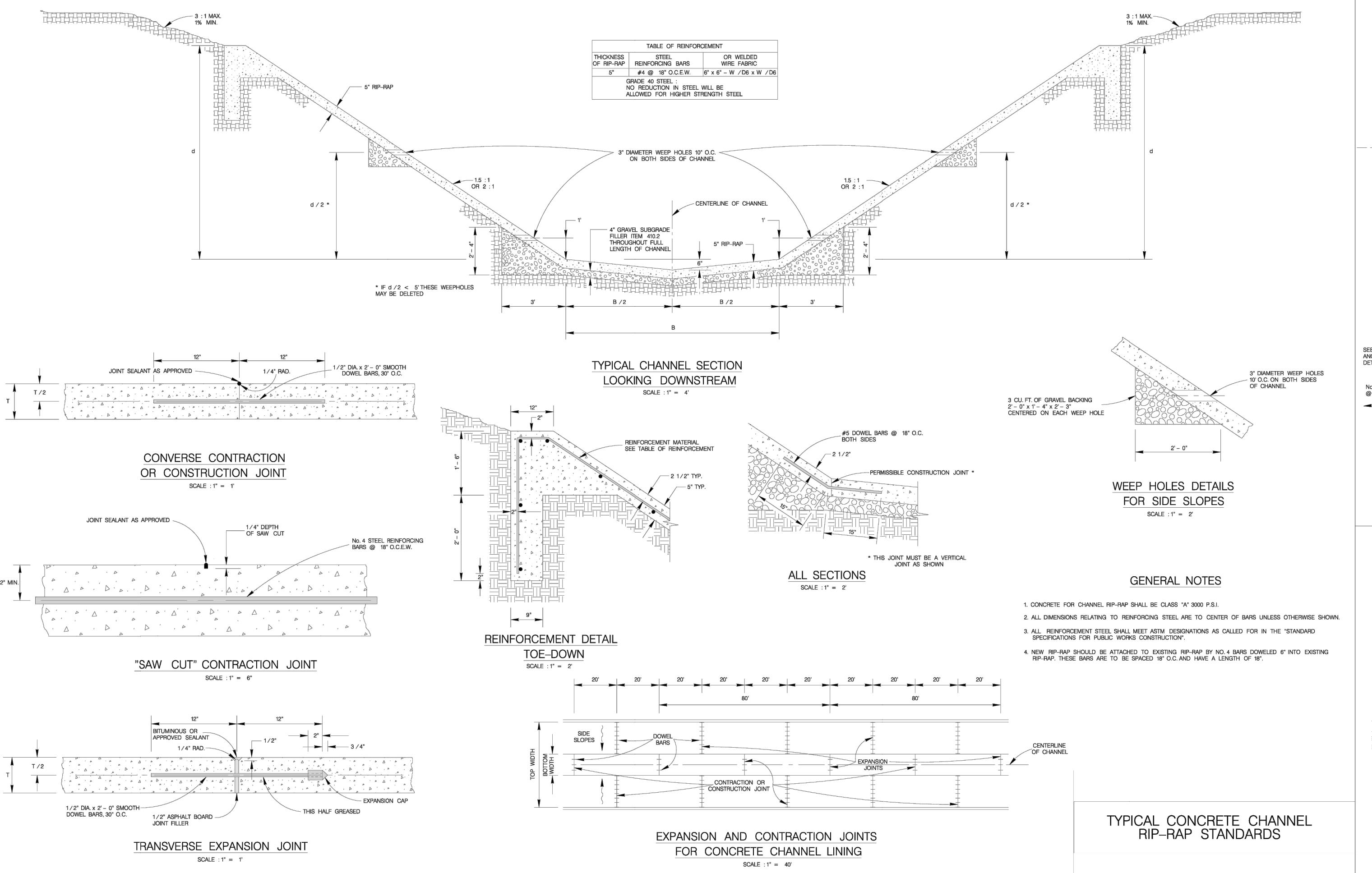
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**STETSON RIDGE
UNIT 2**

DRAINAGE DETAILS

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DATE: 12/16/2025
PROJECT NO.: 04127.005
DRAWN BY: CG/JG/LJ/TCD
CHECKED BY: XV/JC

REVISIONS:

1.	DATE:	12/16/2025
2.	DATE:	
3.	DATE:	
4.	DATE:	
5.	DATE:	
6.	DATE:	
7.	DATE:	
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STATE OF TEXAS
JAVIER CASTELLO
LICENSED PROFESSIONAL ENGINEER
TBPENo.455
TBPLS No. 1004800
12270
12/16/2025
CUDE ENGINEERS
TPBENo.455
TBPLS No. 1004800

C14

STETSON RIDGE UNIT 2 - WASTEWATER DEVELOPMENT

ESTIMATED QUANTITY TAKE-OFF

(CONTRACTOR RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES REQUIRED)

Item No.	Description	Quantity	Units
1	8" PVC SANITARY SEWER (0'-6")	323.50	LF
2	8" PVC SANITARY SEWER (6'-10")	816.50	LF
3	SANITARY SEWER MANHOLE	1	EA
4	EXTRA DEPTH MANHOLES	2	VF
5	SANITARY SEWER LATERALS	2,460	LF
6	SEWER MAIN TELEVISION INSPECTION	1,140	LF
7	TRENCH EXCAVATION SAFETY PROTECTION	1,140	LF
8	TIE INTO EXISTING MANHOLE	6	EA
9	8"X6" WYE	48	EA
10	8"X6" WY (CONCRETE SADDLE)	18	EA

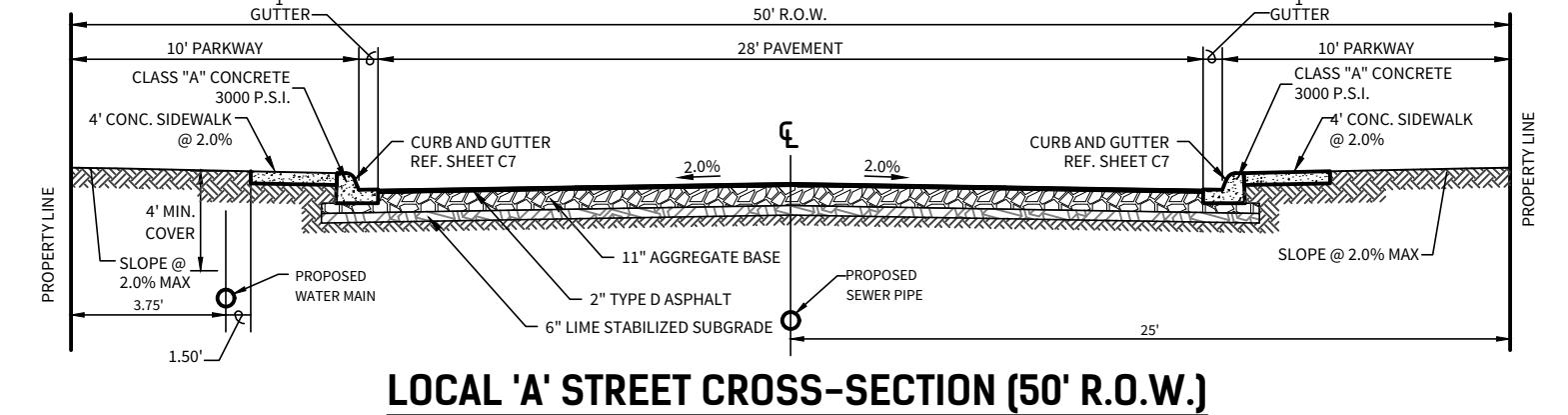
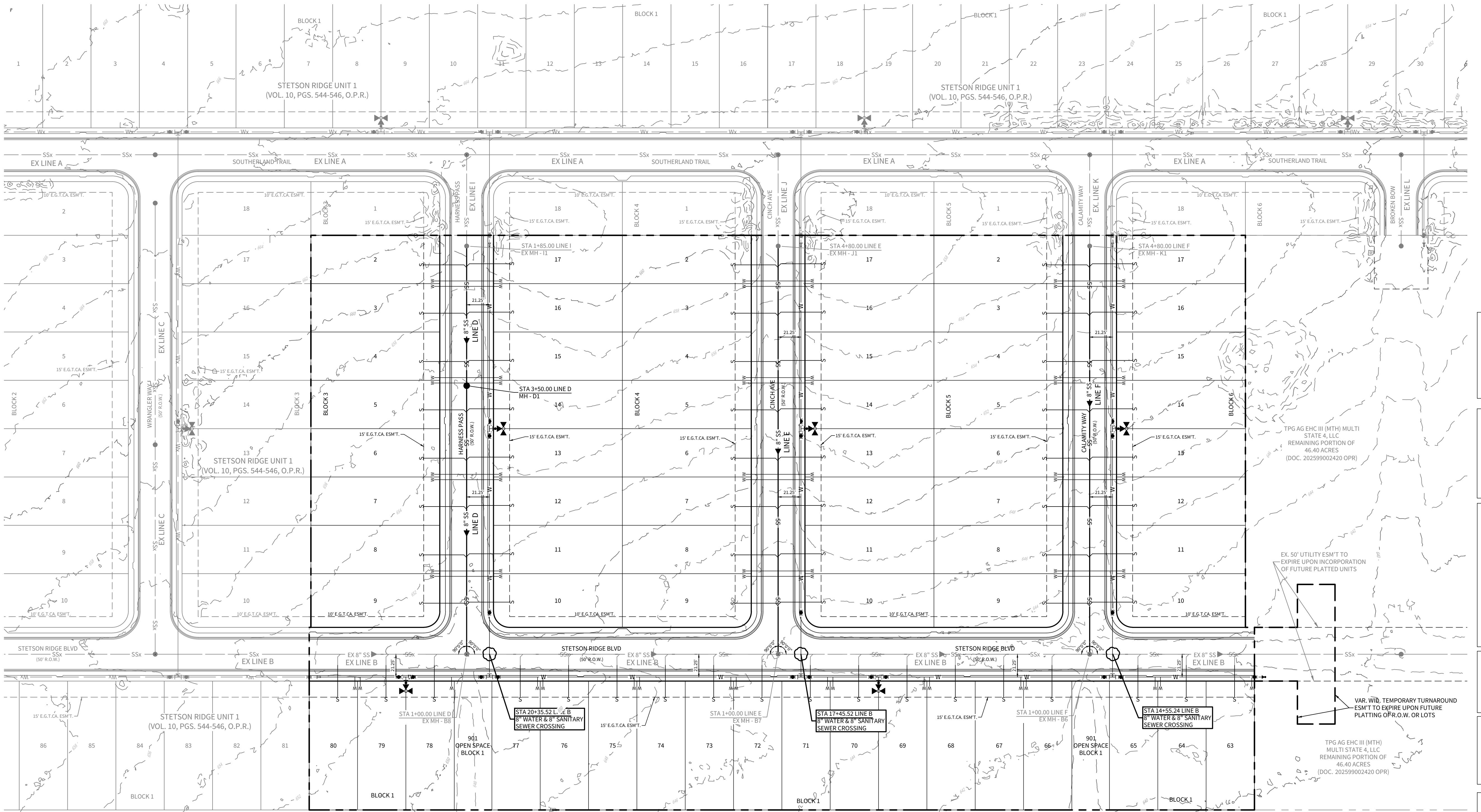
TOTAL ACREAGE	10.72
TOTAL EDUS	66
TOTAL NUMBER OF LOTS	66

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 90% COMPACTION ON ALL TRENCH BACKFILL AND PAVING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE CONDUCTED AT A LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE GSUD INSPECTOR/TEST ADMINISTER, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY GSUD WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
2. ALL SANITARY SEWER PIPE SHALL BE SDR-26 PVC PIPE MEETING ASTM SPECIFICATION TAC.290.44 (E) APPENDIX 6 & TAC.215.13 (D) APPENDIX 2.
3. MANHOLE OPENING INCREASED TO 30" AS PER TAC CHAPTER 217.55.
4. REFERENCE STREET DETAIL SHEET AND GEOTECHNICAL ENGINEERING REPORT FOR PAVEMENT DESIGN INFORMATION.
5. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPGRADE SIDE OF THE SEWER LINE. MATERIAL SHALL NOT BE PLACED ON THE DOWNGRADE SIDE OR ON A ROUND.
6. ALL LATERALS SHALL BE INSTALLED AT A MINIMUM 0.2% SLOPE UNLESS OTHERWISE NOTED.
7. BENCHMARK TO BE SET BY ENGINEER PRIOR TO THE START OF CONSTRUCTION.
8. ALL SEWER LATERALS TO BE INSTALLED WITH A MINIMUM 150 PSI PRESSURE RATED PIPE AND EMBEDDED IN CEMENT STABILIZED SAND AT ALL WATER MAIN AND LATERAL SERVICE CROSSINGS PER TAC CHAPTER 290.44(e)
9. CONTRACTOR TO INSTALL A 2' X 4' LUMBER ON EACH SEWER LATERAL LOCATION AND PAINT IT IN GREEN.
10. DISINFECTION SHALL BE BY MACHINE CHLORINATION.
11. ALL TESTING AND TEST REPORTS SHALL BE COORDINATED WITH GSUD INSPECTOR BY THE CONTRACTOR.
12. CONTRACTOR TO OBTAIN GUADALUPE COUNTY EXCAVATION PERMIT BEFORE CONSTRUCTION WITHIN GUADALUPE COUNTY R.O.W.
13. CONTRACTOR TO REVEGETATE AREAS DISTURBED BY SEEDING OR SODDING TO OBTAIN AN ESTABLISHED 85% REVEGETATION.
14. CONTRACTOR TO RECONSTRUCT ROAD TO EXISTING OR BETTER CONDITIONS.

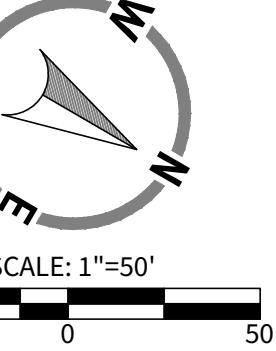
TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL

N.T.S.



LOCAL 'A' STREET CROSS-SECTION (50' R.O.W.)

N.T.S.



LEGEND

OVERALL UNIT BOUNDARY	---
PROPOSED LOT LINE	---
PROPOSED RIGHT OF WAY	---
E.G.T.C.A. EASEMENT	---
EXISTING 2' CONTOUR	---
EXISTING 10' CONTOUR	---
EXISTING WATER LINE	---
EXISTING SEWER LINE	---
EXISTING MANHOLE	●
PROPOSED WATER LINE	---
PROPOSED WATER SERVICE	W
PROPOSED FIRE HYDRANT	---
PROPOSED SEWER MAIN	SS
PROPOSED SEWER FORCE MAIN	SMF
PROPOSED MANHOLE	●
PROPOSED SEWER SERVICE	---
PROPOSED STREET LIGHT	○

SEWER/WATER LINE CROSSINGS	
LINE	STATION
"B"	14+55.24
"B"	17+45.52
"B"	20+35.52

STETSON RIDGE
UNIT 2

OVERALL SANITARY SEWER PLAN

CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

CITY OF MARION (830) 914-2391
GSUD (830) 914-2330
GVTIC (830) 855-4411
DIG TESS 1-800-344-3445
TEXAS STATE WIDE ONE CALL LOCATORS 1-800-344-8377
1-800-545-0005 OR 811

NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 90% COMPACTION ON ALL TRENCH BACKFILL AND PAVING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE CONDUCTED AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE GSUD INSPECTOR/TEST ADMINISTER, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY GSUD WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

TRENCH EXCAVATION PROTECTION

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

CAUTION!!
EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND.

CAUTION!!
THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC LINES EXIST WITHIN THE VICINITY OF THE SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A MEETING WITH THE UTILITY TO COMMENCE CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING FACILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.

NOTE:

CONTRACTOR TO INSTALL WATER-TIGHT MANHOLES WITH 30" OPENING AND INTERIOR WALL COATED WITH A GSUD APPROVED SEWER STRUCTURE FOR ALL MANHOLES WITHIN THIS DEVELOPMENT.

REVISIONS

DATE

12/19/2025

PROJECT NO.

04127.005

DRAWN BY

CG/JG/LJ/TCD

CHECKED BY

XV/JC

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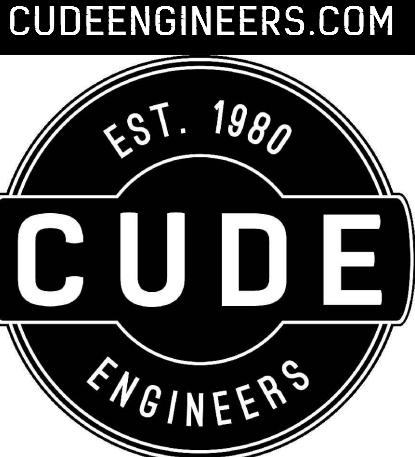
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NOTICE

NOTES:
 1. CONTRACTOR TO INSTALL WATERPROOF MANHOLES WITH 30" OPENING AND INTERIOR WALL COATED WITH A GVSUD APPROVED SEWER STRUCTURE FOR ALL MANHOLES WITHIN THIS DOCUMENT.
 2. ALL SEWER LATERALS AND PROPERTY LINE CLEAUNOTS ARE TO BE LOCATED OUTSIDE OF DRIVEWAY PAVED AREAS.
 3. ** CONTRACTOR TO TIE INTO EXISTING SEWER LATERAL STUB OUT.
 4. CONTRACTOR TO CORE EX. MANHOLE AT INVERT SHOWN ON PROFILE.

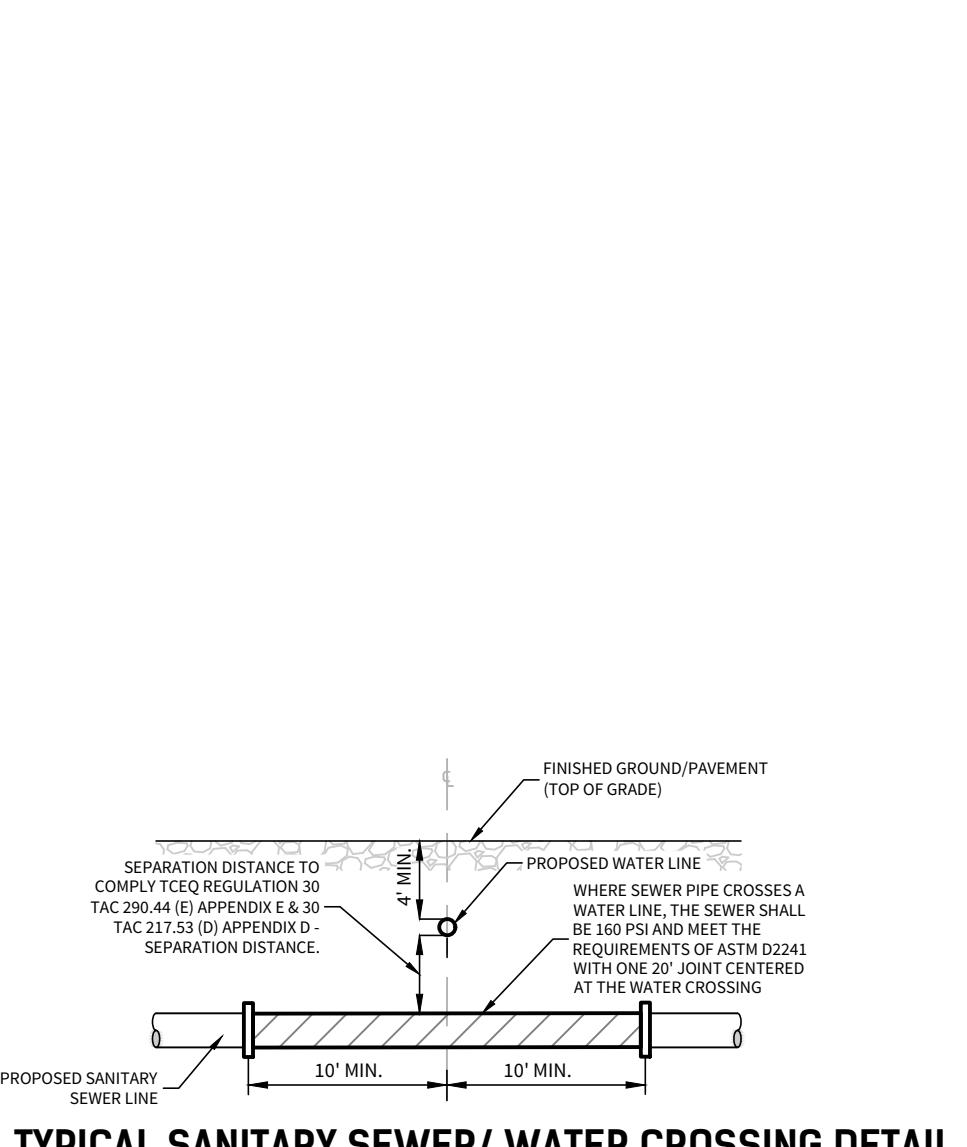
CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

CITY OF MARION
 GVSUD
 GVEC
 DRESS
 TEXAS STATE WIDE ONE CALL LOCATORS

(830) 914-2391
 (830) 914-2330
 (830) 855-4411
 1-800-855-8345
 1-800-344-3377
 1-800-545-6005 OR 811

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TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL N.T.S.

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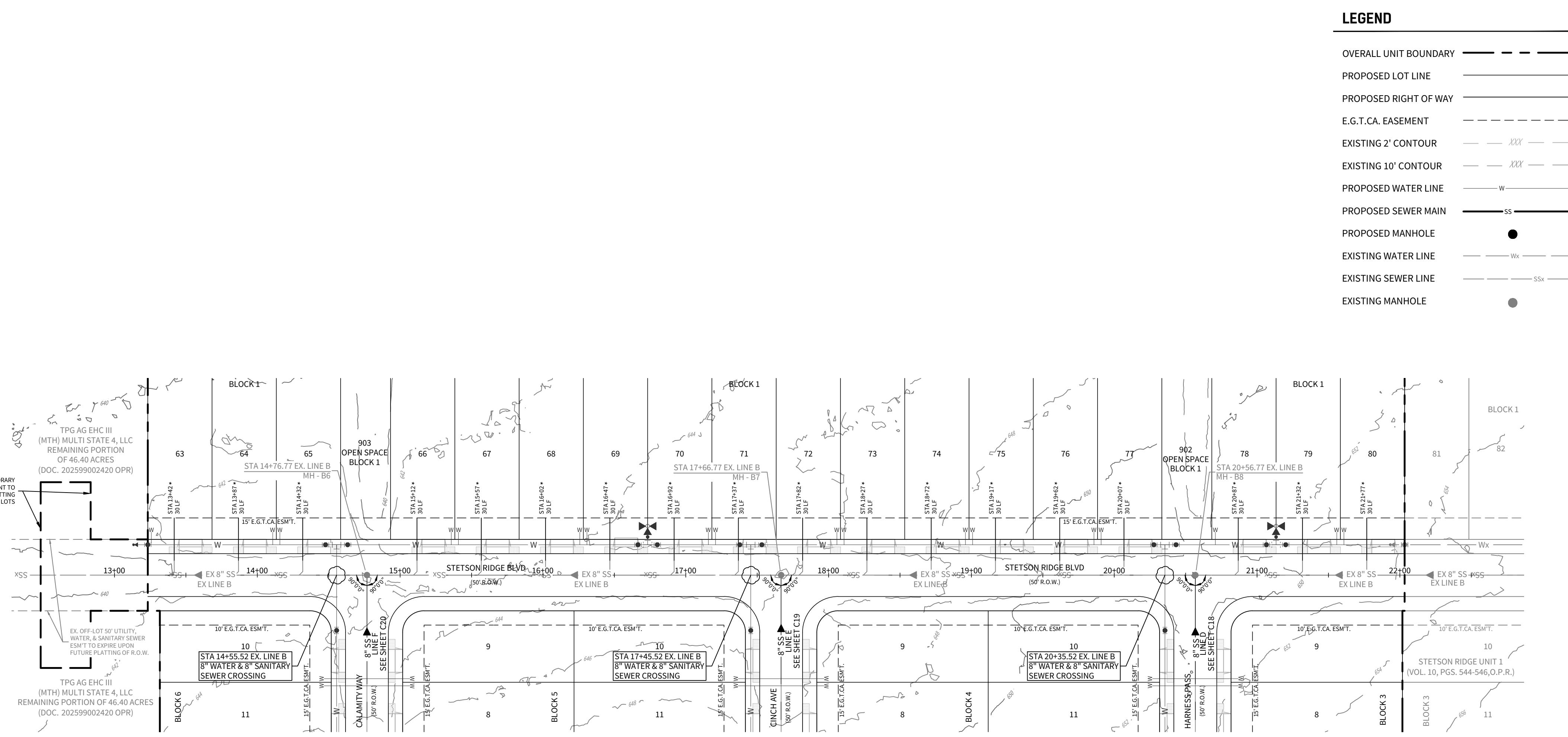
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TPS AG EHC III
 (MTH) MULTI STATE 4, LLC
 REMAINING PORTION OF 46.40 ACRES
 (DOC. 202599002420 OPR)

TPS AG EHC III
 (MTH) MULTI STATE 4, LLC
 REMAINING PORTION OF 46.40 ACRES
 (DOC. 202599002420 OPR)

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 (MTH) MULTI STATE 4, LLC
 REMAINING PORTION OF 46.40 ACRES
 (DOC. 202599002420 OPR)

TPS AG EHC III
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 REMAINING PORTION OF 46.40 ACRES
 (DOC. 202599002420 OPR)

NOTES:
 1. CONTRACTOR TO INSTALL WATERLIGHT MANHOLES WITH 30° OPENING AND INTERIOR WALL COATED WITH A GVSUD APPROVED SEWER STRUCTURE FOR ALL MANHOLES WITHIN THIS DEVELOPMENT.
 2. ALL SEWER LATERALS AND PROPERTY LINE CLEANOUTS ARE TO BE LOCATED OUTSIDE OF DRIVEWAY PAVED AREAS.
 3. CONTRACTOR TO CORE EX. MANHOLE AT INVERT SHOWN ON PROFILE.

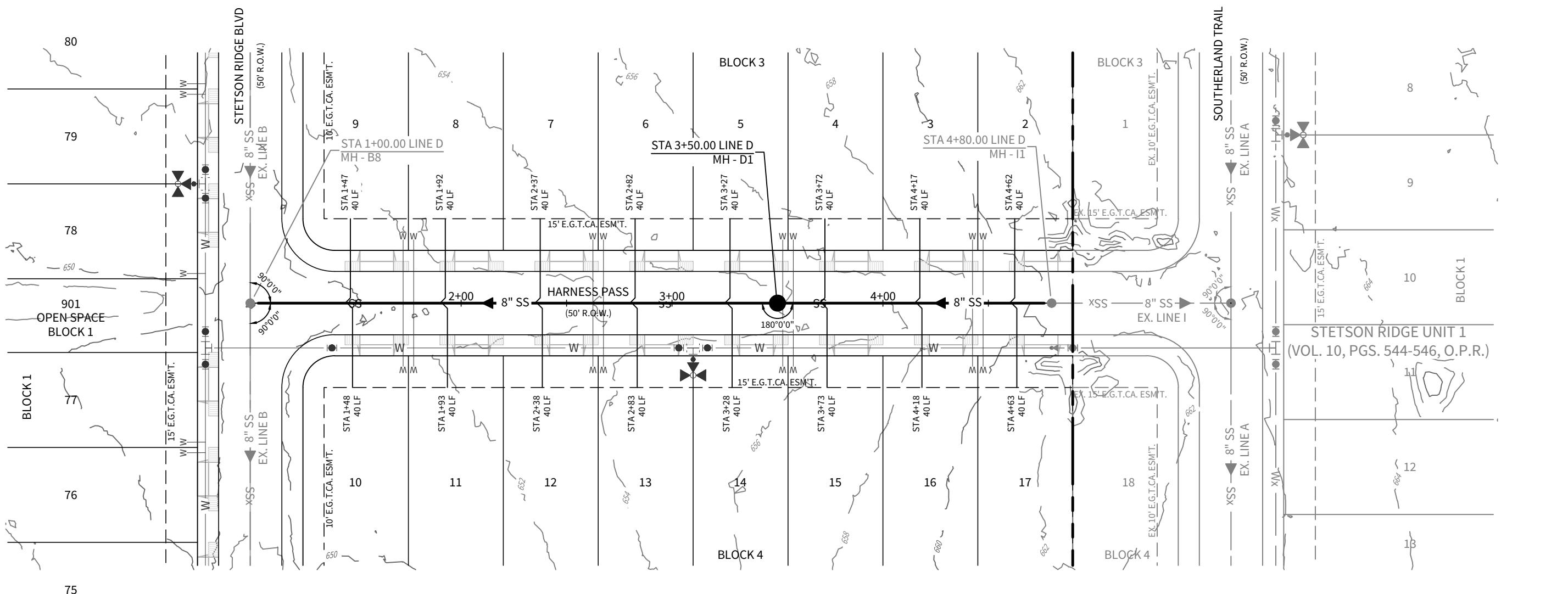
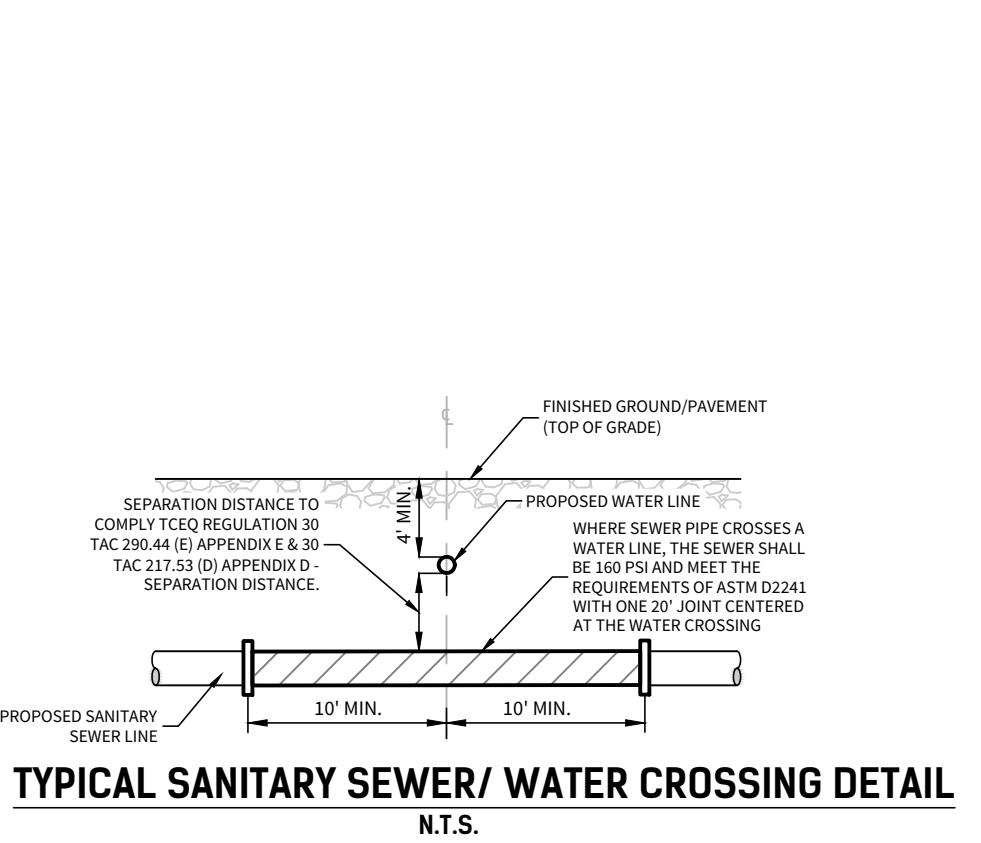
CONTRACTOR VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

CITY OF MARION (830) 914-2391
 GVSUD (830) 914-2330
 GVEC (830) 985-4411
 GVEC 1-800-854-8345
 ADDRESS 1-800-344-0077
 TEXAS STATE WIDE ONE CALL LOCATORS 1-800-545-6605 OR 811

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND THE CONTRACT DOCUMENTS FOR THE PROJECT AND SHALL BE RESPONSIBLE FOR THE USE OF THESE PLANS WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION TO COMPLY WITH A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIALTY CONTRACTOR AND CONTRACTOR'S INDEPENDENT RETAINED STRUCTURAL 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.

SAN. SEW.
INV.

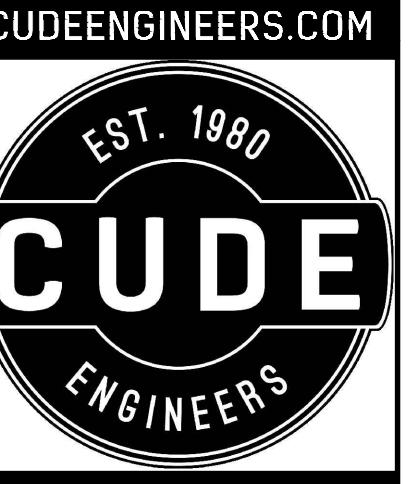


LEGEND

OVERALL UNIT BOUNDARY	- - -
PROPOSED LOT LINE	—
PROPOSED RIGHT OF WAY	—
E.G.T.C.A. EASEMENT	- - -
EXISTING 2' CONTOUR	— XXX —
EXISTING 10' CONTOUR	— XXX —
PROPOSED WATER LINE	— W —
PROPOSED SEWER MAIN	— SS —
PROPOSED MANHOLE	●
EXISTING WATER LINE	— Wx —
EXISTING SEWER LINE	— SSx —
EXISTING MANHOLE	●

STETSON RIDGE UNIT 2

SANITARY SEWER PLAN & PROFILE - LINE D



4122 Pond Hill Road, Suite 101
 San Antonio, Texas 78231
 P:(210) 681.2951 F:(210) 523.7112

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

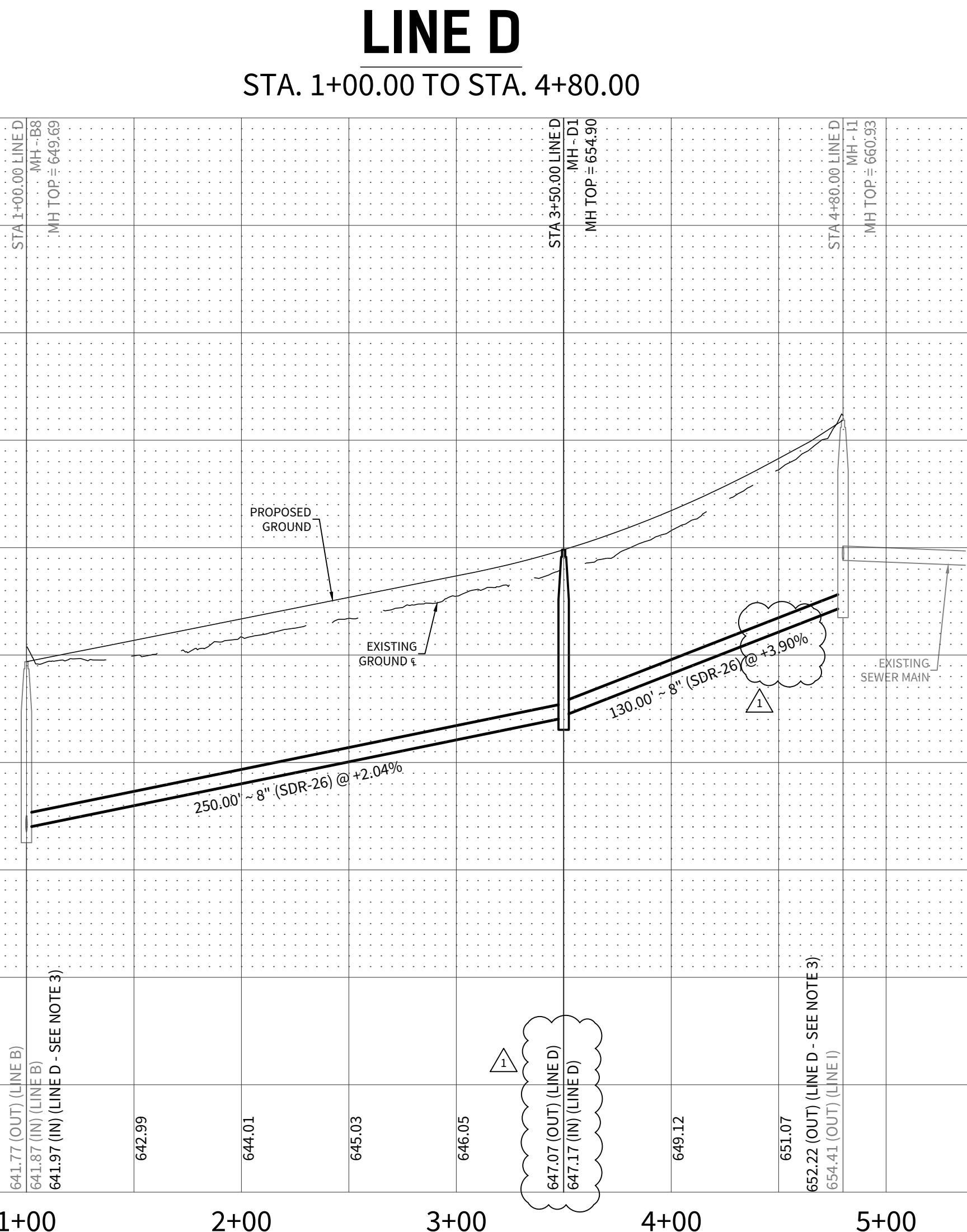
DATE
 12/16/2025
 PROJECT NO.
 04127.005
 DRAWN BY
 CG/JG/LJ/TCD
 CHECKED BY
 XV/JC

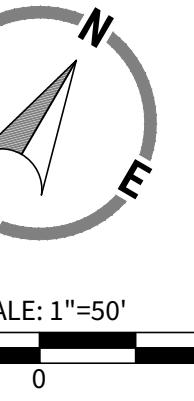
REVISIONS
 1. 2025-12-16
 2. 1. 2. 3. 4. 5. 6. 7. 8. 9.

DATE
 1. 2025-12-16
 2. 1. 2. 3. 4. 5. 6. 7. 8. 9.
 STATE OF TEXAS
 JAVIER CASTELLO
 122170
 PROFESS. ENGINEER
 9/16/2025
 CUDE ENGINEERS
 TPB# No. 455
 TBPLS No. 10048500

C18

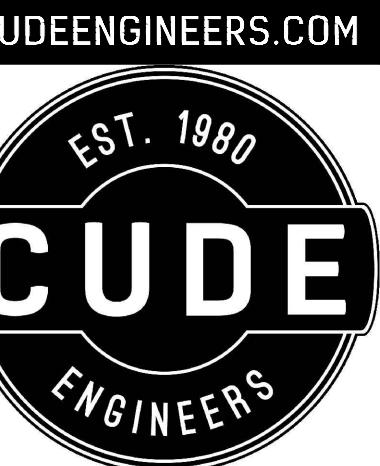
CUDEENGINEERS.COM





SCALE: 1"=50'

50 25 0 50



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

STETSON RIDGE UNIT 2 SANITARY SEWER PLAN & PROFILE - LINE E

TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL N.T.S.

NOTES:
 1. CONTRACTOR TO INSTALL WATERPROOF MANHOLES WITH 30° OPENING AND INTERIOR WALL COATED WITH A GVSUD APPROVED SEWER STRUCTURE FOR ALL MANHOLES WITHIN THIS DEVELOPMENT.
 2. ALL SEWER LATERALS AND PROPERTY LINE CLEANOUTS ARE TO BE LOCATED OUTSIDE OF DRIVEWAY PAVED AREAS.
 3. CONTRACTOR TO CORE EX. MANHOLE AT INVERT SHOWN ON PROFILE.

CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

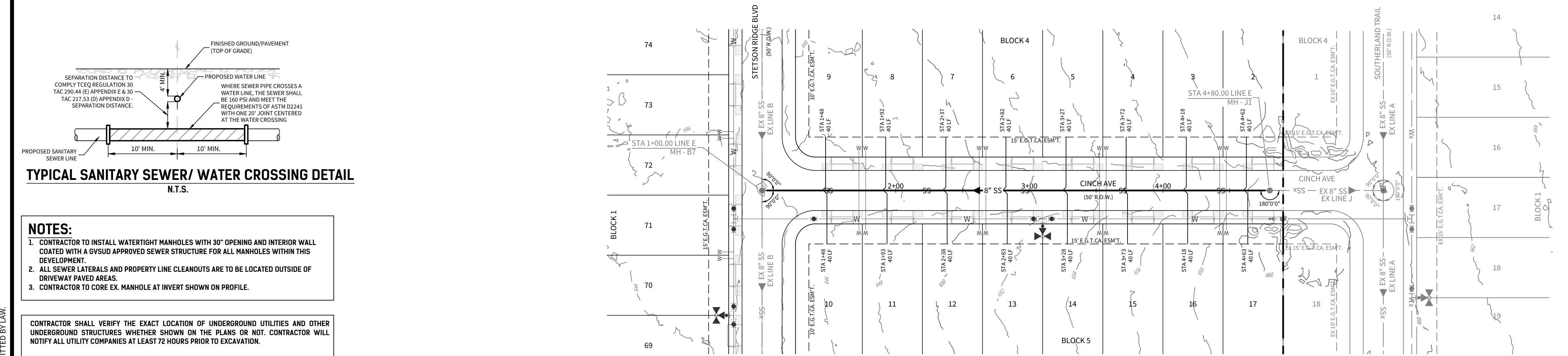
CITY OF MARION (830) 914-2391
GVSUD (830) 914-2330
GVTC (830) 985-4411
GVEC 1-800-344-8345
DIDLESS 1-800-344-8377
TEXAS STATE WIDE ONE CALL LOCATORS 1-800-545-6605 OR 811

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND INDEPENDENTLY DETERMINE THE EXCAVATION SHOWN ON THESE PLANS (TRENCHES) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION TO COMPLY WITH A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIALTY CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED SAFETY 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.

SAN. SEW.
INV.

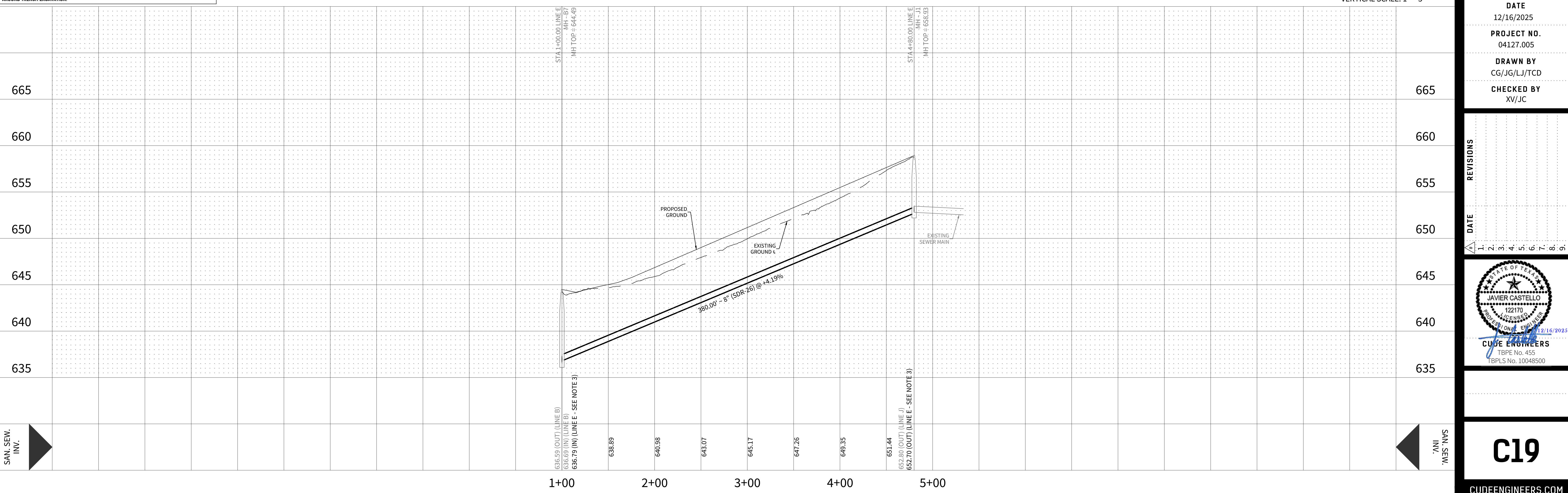
1



LINE E

STA. 1+00.00 TO STA. 4+80.00

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



C19

CUDEENGINEERS.COM

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TCD
CHECKED BY
XV/JC

REVISIONS
1. DATE
2. DATE
3. DATE
4. DATE
5. DATE
6. DATE
7. DATE
8. DATE

STATE OF TEXAS
JAVIER CASTELLO
12/21/70
LICENSED PROFESSIONAL ENGINEER
CUDE ENGINEERS
TPB# 0455
TBPLS No. 10048500

CUDE ENGINEERS

NOTES:

1. CONTRACTOR TO INSTALL WATERTIGHT MANHOLES WITH 30" OPENING AND INTERIOR WALL COATED WITH A GVSUD APPROVED SEWER STRUCTURE FOR ALL MANHOLES WITHIN THIS DOCUMENT.
2. ALL SEWER LATERALS AND PROPERTY LINE CLEANOUTS ARE TO BE LOCATED OUTSIDE OF DRIVEWAY PAVED AREAS.
3. CONTRACTOR TO CORE EX. MANHOLE AT INVERT SHOWN ON PROFILE.

CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

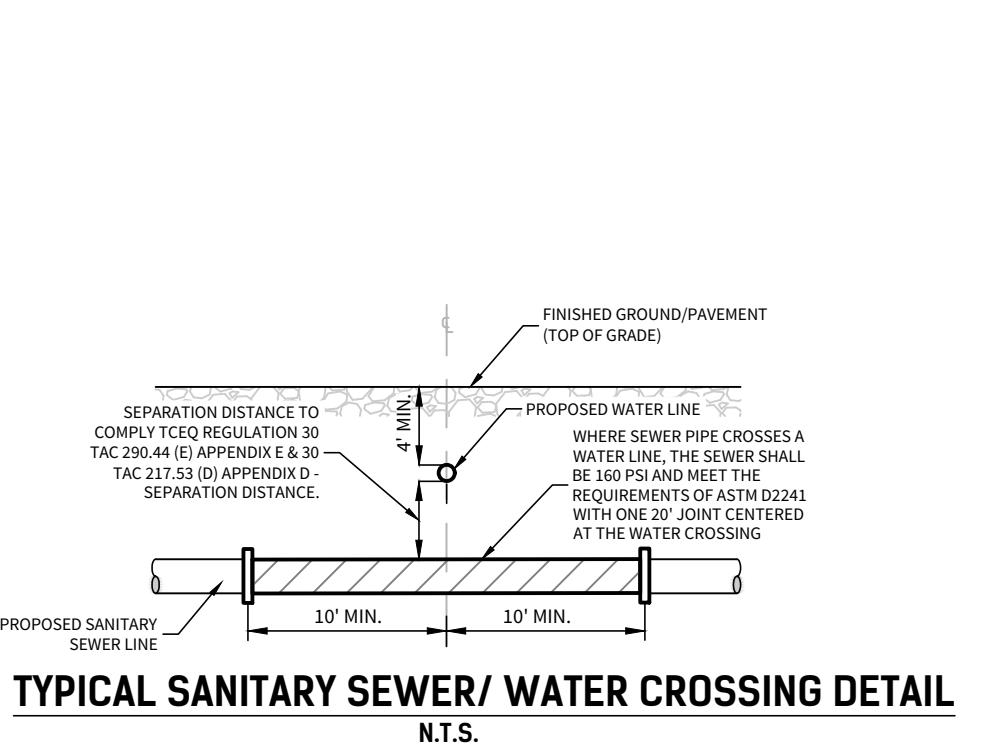
CITY OF MARION (830) 914-2391
GVSUD (830) 914-2330
GVTC (830) 865-4411
GVEC 1-800-344-8345
DUESS 1-800-344-8377
TEXAS STATE WIDE ONE CALL LOCATORS 1-800-545-6605 OR 811

TRENCH EXCAVATION PROTECTION

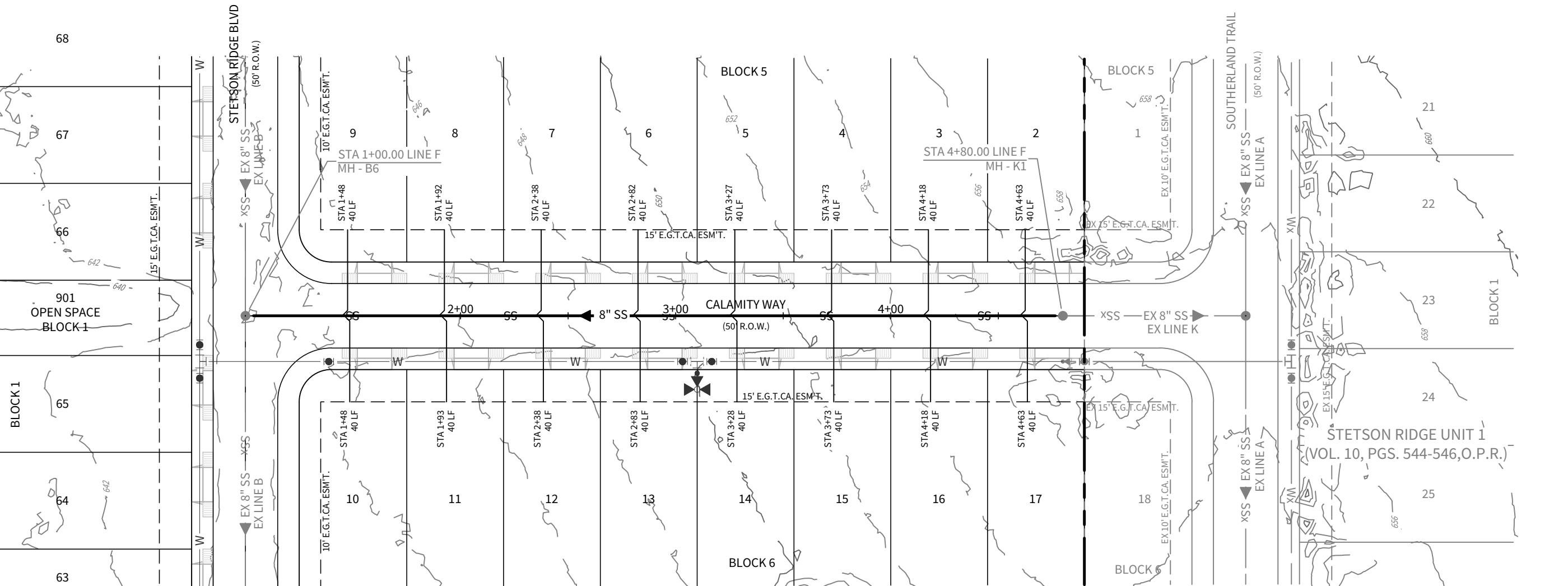
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SAN. SEW.
INV.



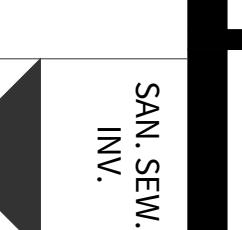
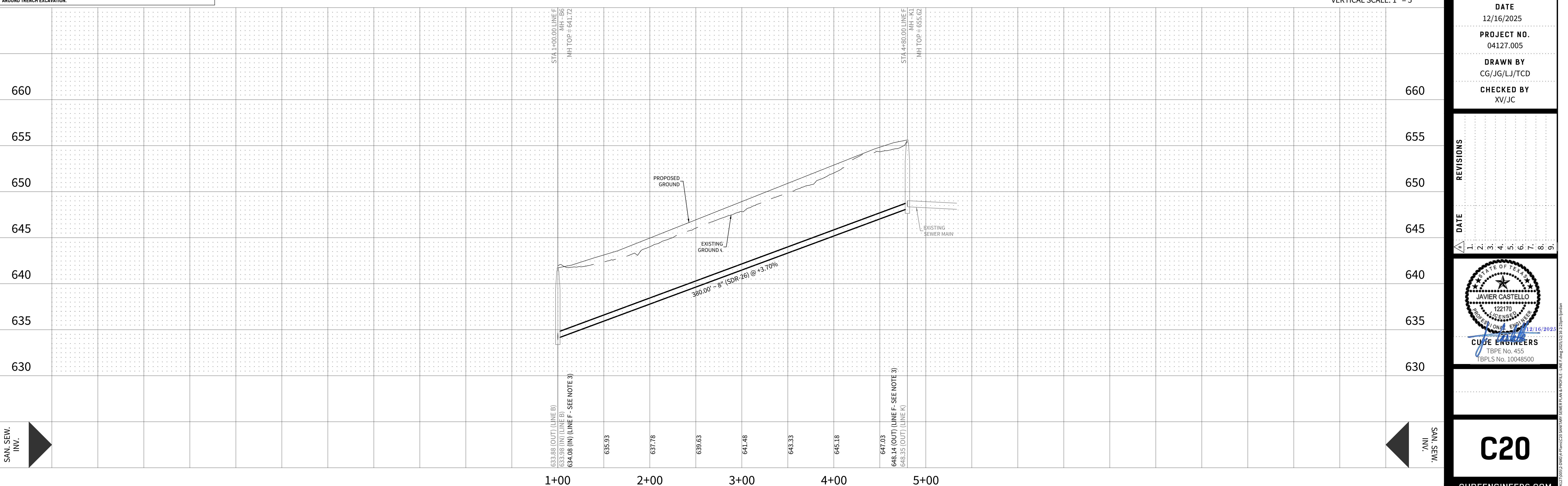
TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL
N.T.S.



LINE F

STA. 1+00.00 TO STA. 4+80.00

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



SAN.
INV.

C20

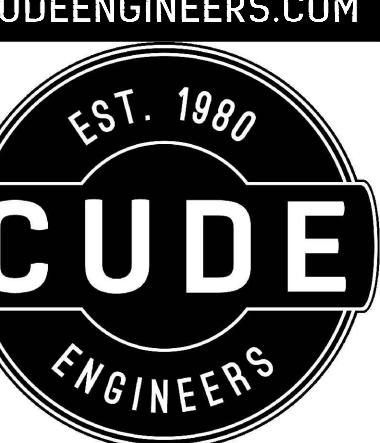


SCALE: 1"=50'

50 25 0 50

LEGEND

- OVERALL UNIT BOUNDARY
- PROPOSED LOT LINE
- PROPOSED RIGHT OF WAY
- E.G.T.C.A. EASEMENT
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED WATER LINE
- PROPOSED SEWER MAIN
- PROPOSED MANHOLE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING MANHOLE



CUDEENGINEERS.COM

4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

STETSON RIDGE UNIT 2

SANITARY SEWER PLAN & PROFILE - LINE F

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TCD
CHECKED BY
XV/JC

REVISIONS
1. 2. 3. 4. 5. 6. 7. 8. 9.

DATE
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CG/JG/LJ/TCD
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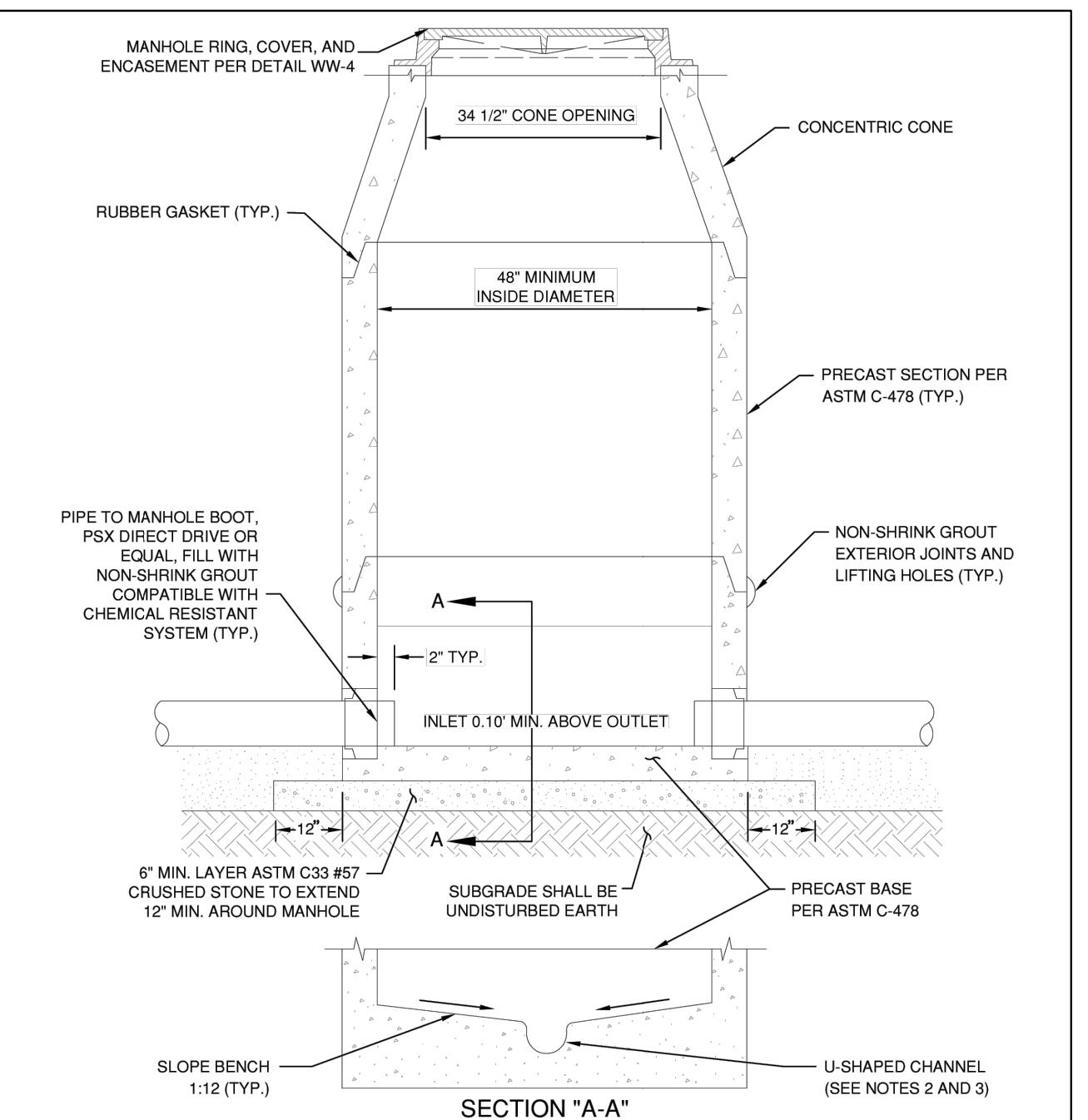
STATE OF TEXAS
JAVIER CASTELLO
LICENSED PROFESSIONAL ENGINEER
TBPENo. 455
TBPLS No. 10048500
9/16/2025

CUDE ENGINEERS
TBPENo. 455
TBPLS No. 10048500
9/16/2025

CUDEENGINEERS.COM

**STETSON RIDGE
UNIT 2**

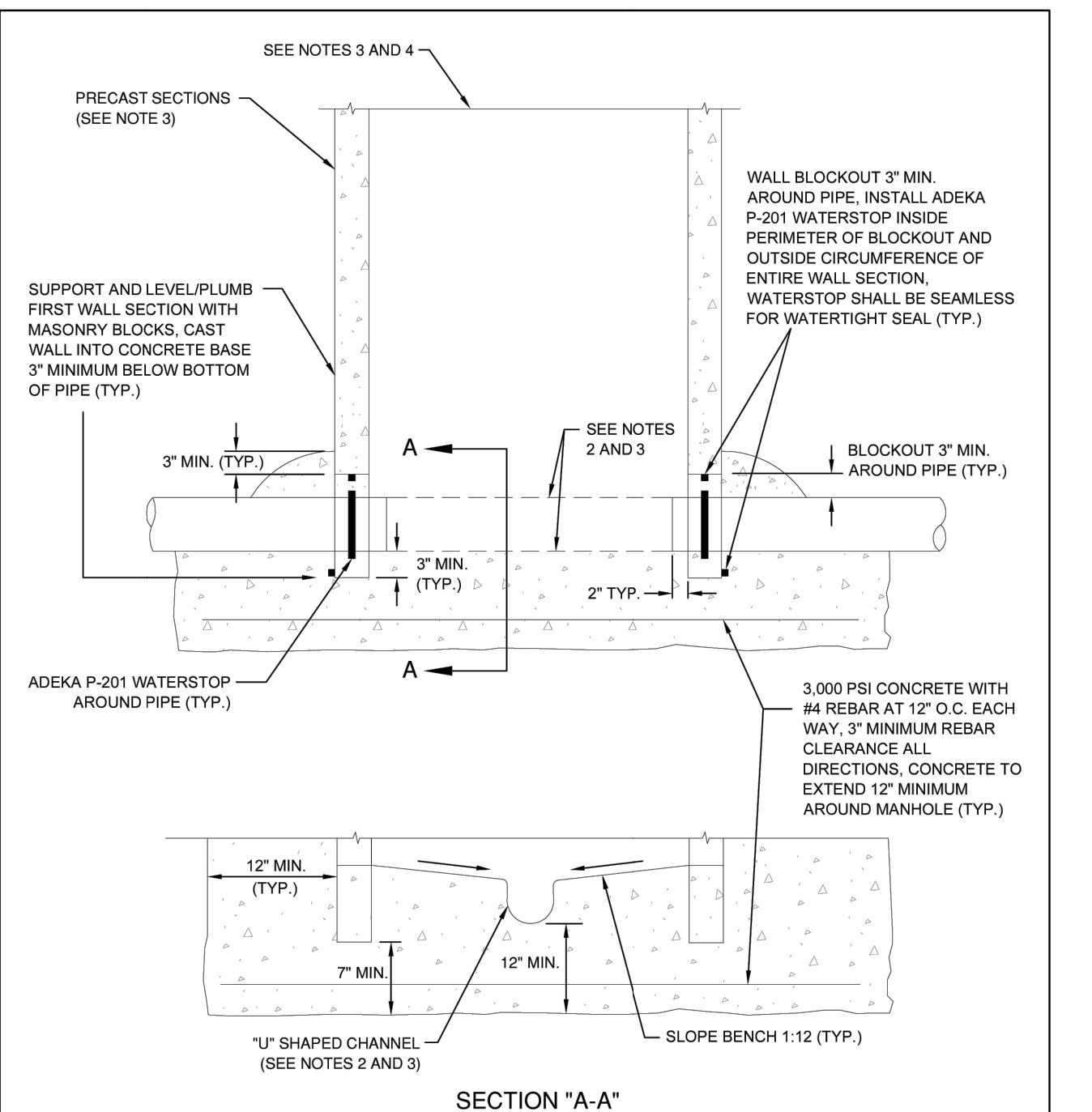
SANITARY SEWER DETAILS



NOTES:
1. UNLESS INDICATED OTHERWISE, INSTALL COMPONENTS PLUMB/LEVEL.
2. ALL INTERIOR SURFACES SHALL BE CHEMICAL RESISTANT INCLUDING THROAT RINGS, BENCH, AND CHANNEL INVERTS. REFERENCE GVSUD STANDARDS FOR CHEMICAL RESISTANT REQUIREMENTS.
3. IF CHEMICAL RESISTANT LINING IS UTILIZED, ADJUST CHANNEL INVERTS TO ACCOMMODATE THICKNESS OF LINING SUCH THAT MANHOLE OUT INVERT IS 6" ABOVE THE PIPING INVERT.
4. PROVIDE 6" MINIMUM CLEARANCE BETWEEN CONCRETE PENETRATIONS, AND BETWEEN CONCRETE PENETRATIONS AND CONCRETE JOINTS, AS MEASURED FROM NEAREST EDGE TO NEAREST EDGE.

	GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	REVISED	SCALE
	NOVEMBER 2025	NONE	
WASTEWATER PRECAST MANHOLE	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD		

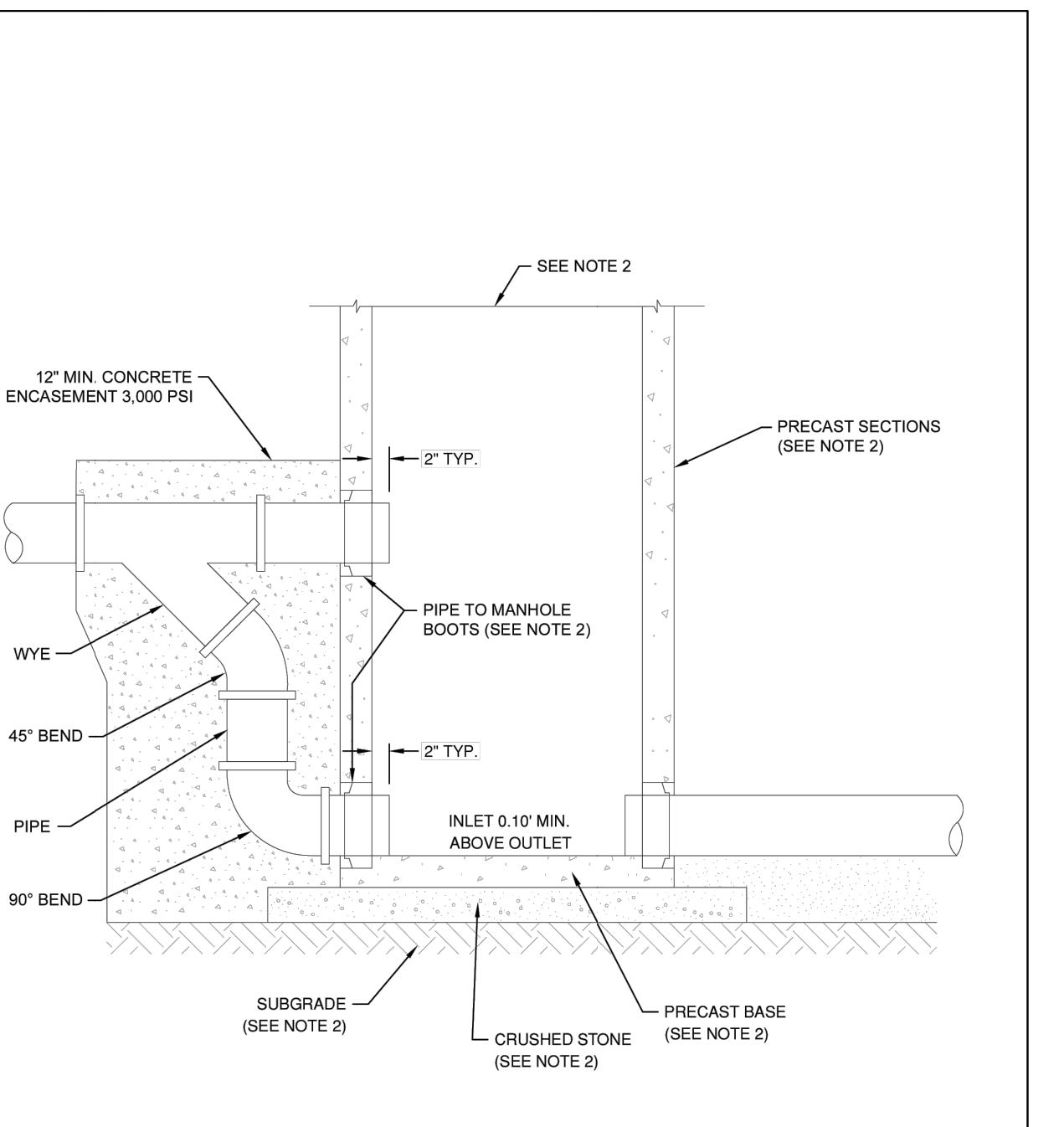
DETAIL NO. WW-1



NOTES:
1. THIS DETAIL SHALL BE USED TO INSTALL MANHOLES ON EXISTING MAINS ONLY.
2. AFTER SUCCESSFUL VACUUM TESTING, REMOVE EXISTING PIPE FULL CIRCUMFERENCE AND SHAPE CHANNELS FOR NEW AND EXISTING PIPES.
3. REFERENCE DETAIL WW-1 FOR CHEMICAL RESISTANT MATERIAL REQUIREMENTS.
4. REFERENCE DETAIL WW-1 FOR ADDITIONAL REQUIREMENTS.

	GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	REVISED	SCALE
	NOVEMBER 2025	NONE	
WASTEWATER MANHOLE CAST IN PLACE BASE	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD		

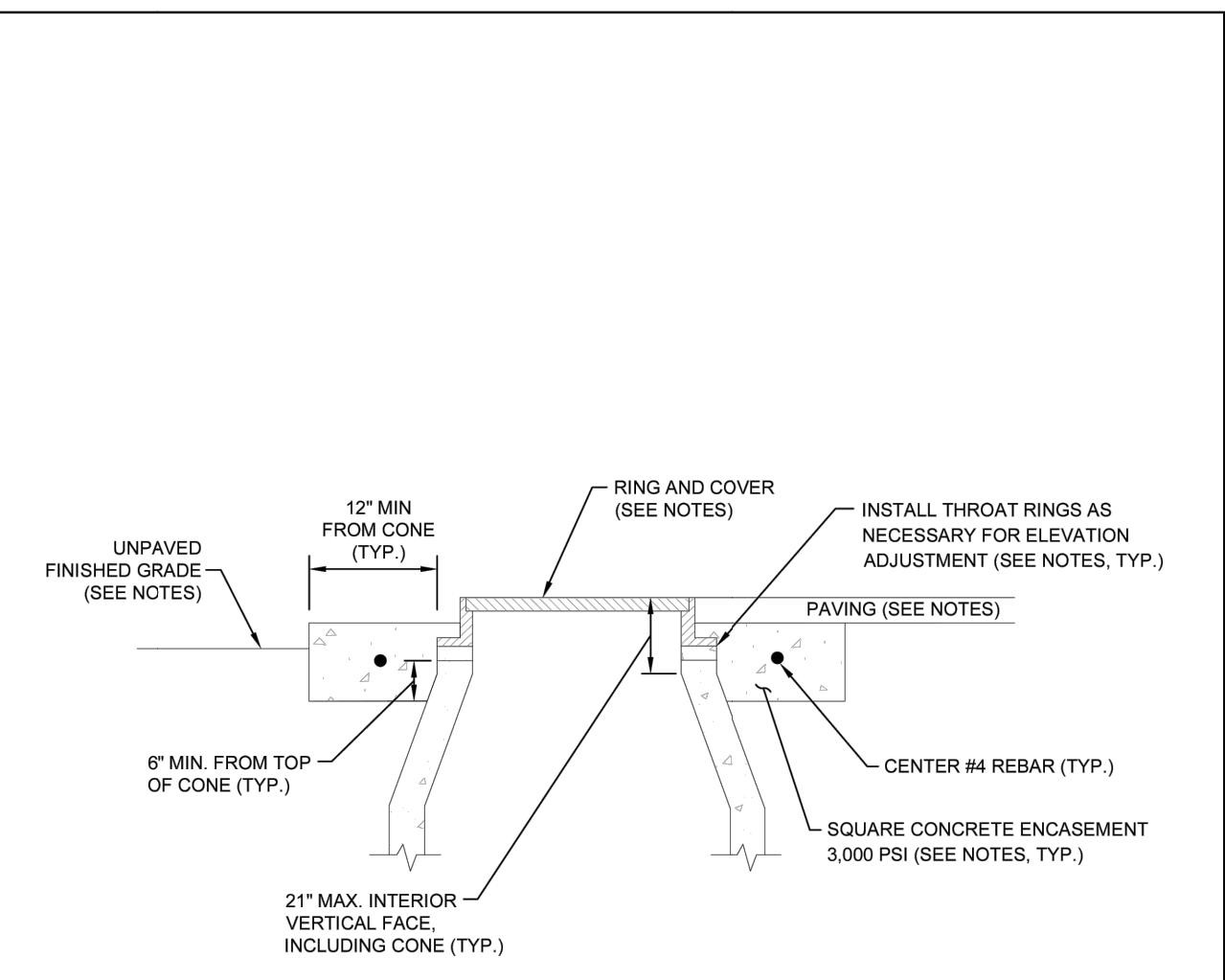
DETAIL NO. WW-2



NOTES:
1. A WASTEWATER COLLECTION SYSTEM PIPE, INCLUDING SERVICE LATERALS, ENTERING A MANHOLE MORE THAN 24" ABOVE THE MANHOLE OUT INVERT MUST HAVE AN EXTERNAL DROP PIPE. INTERNAL DROPS ARE NOT ALLOWED.
2. REFERENCE DETAIL WW-1 FOR ADDITIONAL REQUIREMENTS.

	GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	REVISED	SCALE
	NOVEMBER 2025	NONE	
WASTEWATER DROP MANHOLE	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD		

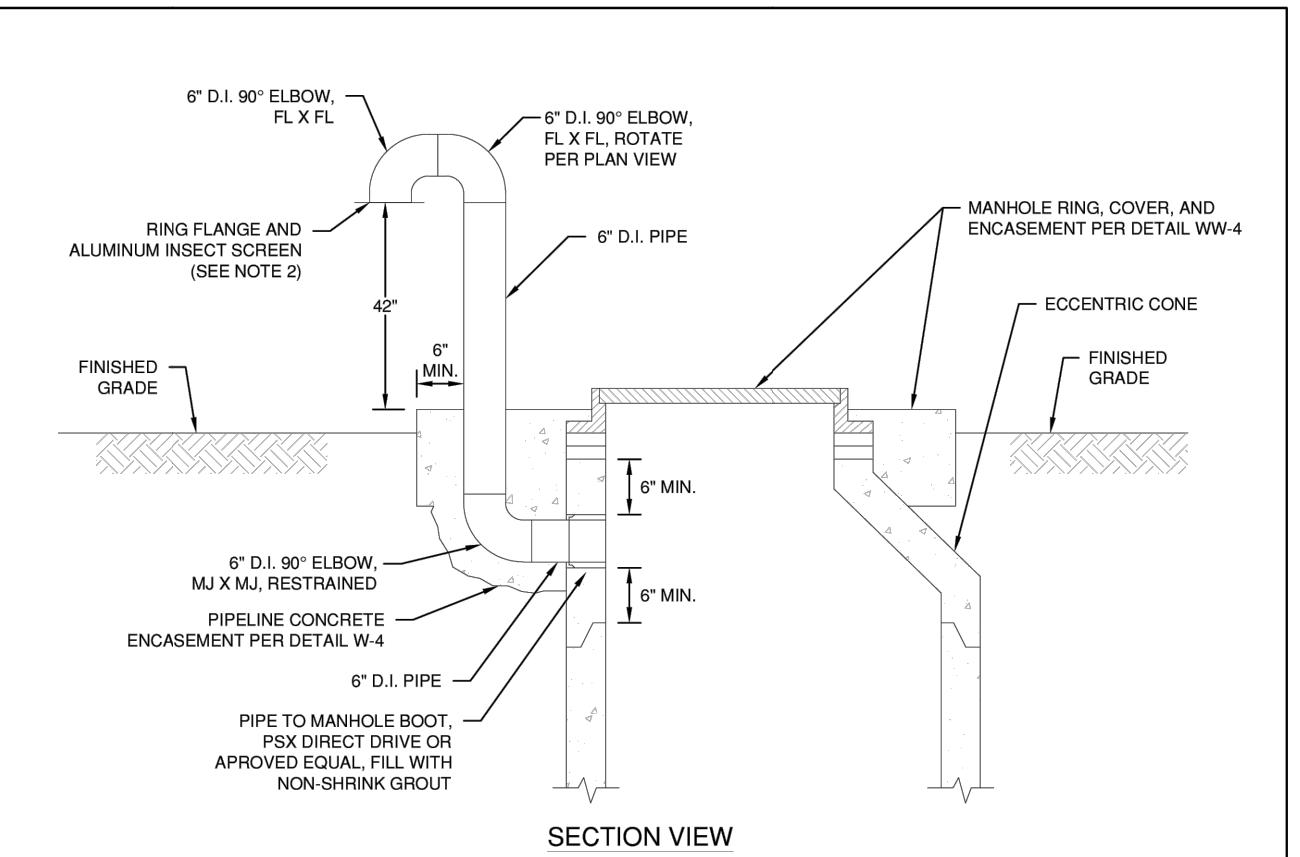
DETAIL NO. WW-3



NOTES:
1. MANHOLE RING CONCRETE ENCASING IS REQUIRED FOR ALL MANHOLES.
2. INSTALL CONCRETE ENCASING SQUARE WITH CURB.
3. MANHOLE RIM ELEVATIONS SHOWN IN PLAN AND PROFILE VIEWS ARE APPROXIMATE.
4. IN UNPAVED AREAS, CONCRETE WALL BE INSTALLED 4" ABOVE THE TOP OF CONCRETE ENCASING. ALL EXPOSED VERTICAL AND HORIZONTAL CONCRETE EDGES SHALL BE FORMED WITH 3/4" CHAMFER STRIPS.
5. IN PAVED AREAS, RINGS AND COVERS SHALL BE FLUSH WITH PAVING AND SLOPED TO MATCH PAVING.
6. THROAT RINGS SHALL BE PLUMB/LEVEL. ALL THROAT RINGS SHALL BE CHEMICAL RESISTANT.
7. INHOLE THROAT, UTILIZE NON-SHRINK GROUT FOR INSTALLATION OF THROAT RINGS. GROUT SHALL BE COMPATIBLE WITH THE CHEMICAL RESISTANT SYSTEM.
8. MANHOLE RINGS AND COVERS SHALL BE EJCO PRODUCT NUMBER A1430094W01, OR EQUAL.
8. SCHEDULE GVSUD INSPECTOR TO WITNESS FINAL BOLTING OF MANHOLE COVERS.

	GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	REVISED	SCALE
	NOVEMBER 2025	NONE	
WASTEWATER MANHOLE RING ENCASEMENT	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD		

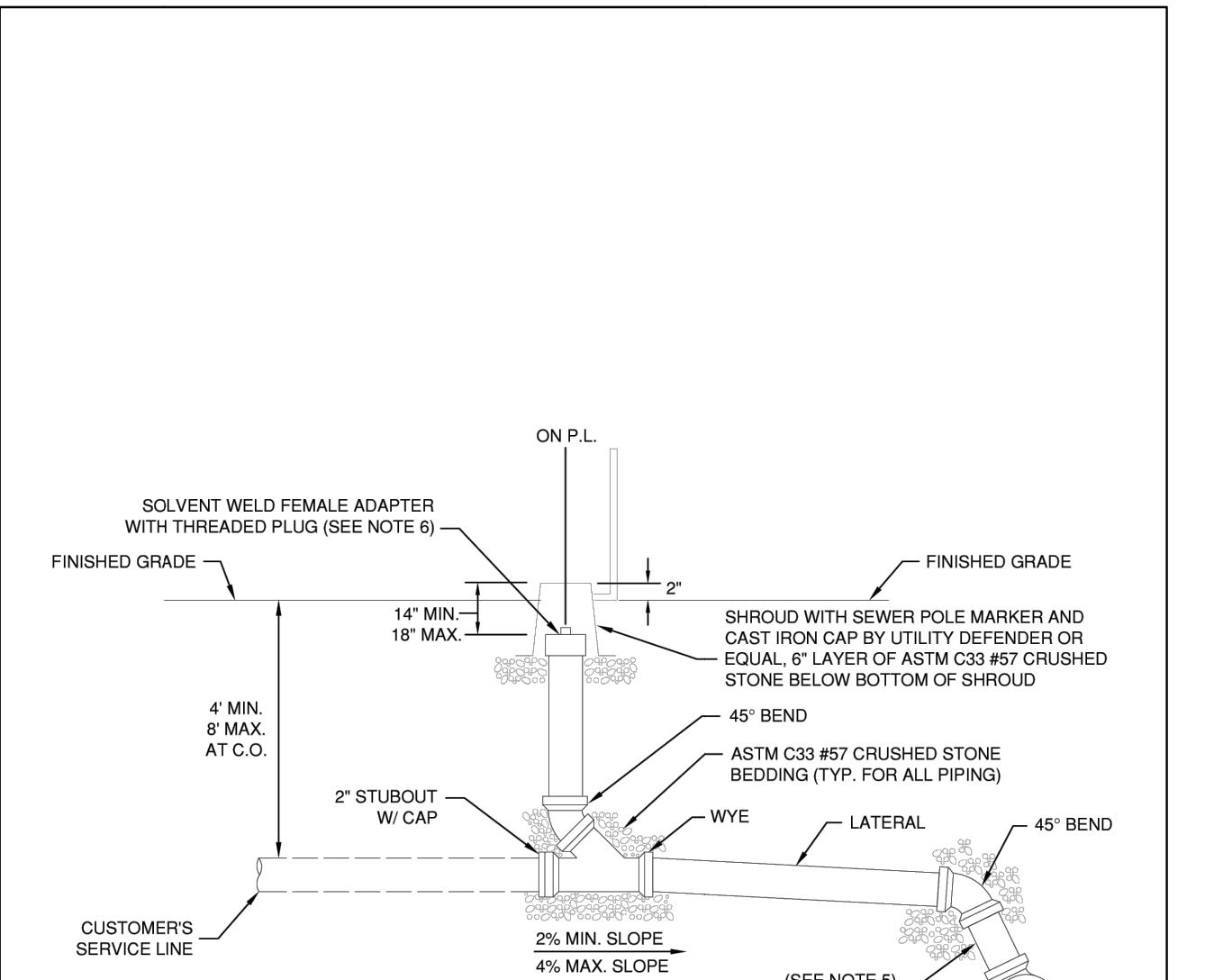
DETAIL NO. WW-4



NOTES:
1. REFERENCE DETAIL W-1 FOR ADDITIONAL REQUIREMENTS.
2. INSTALL A TEMPORARY BLIND FLANGE FOR MANHOLE VACUUM TESTING.

	GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	REVISED	SCALE
	NOVEMBER 2025	NONE	
WASTEWATER MANHOLE VENT	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD		

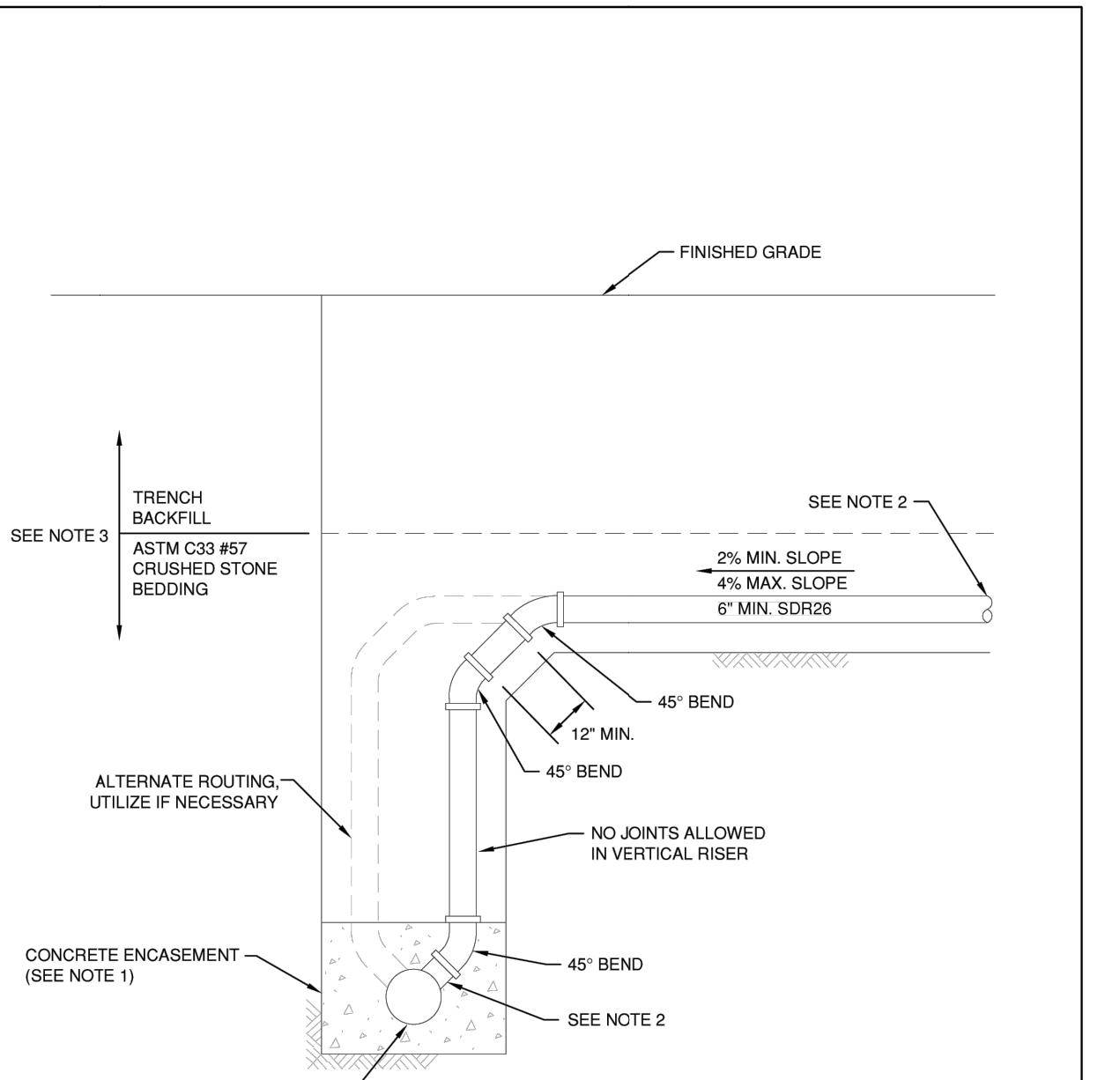
DETAIL NO. WW-5



NOTES:
1. CLEANOUTS (C.O.) ARE NOT ALLOWED WITHIN DRIVEWAYS.
2. PROVIDE SINGLE WASTEWATER SERVICES 5 FT FROM LOW LOT CORNER (TYPICAL). PROVIDE 9 FT WHERE LOT CORNER IS SHARED WITH DRY UTILITIES AND 10 FT WHERE LOT CORNER IS SHARED WITH A FIRE HYDRANT OR AIR RELEASE VALVE.
3. PIPE AND FITTINGS SHALL BE 6" DIAMETER, GREEN COLOR, GASKETED ASTM D3034 SDR26, UNLESS NOTED OTHERWISE. AT SHOWERS, USE 4" CRUSHED STONE BEDDING, WHITE COLOR, GASKETED, AND 150 PSI MINIMUM PRESSURE RATED.
4. UTILIZE SANITARY TEES FOR NEW CONSTRUCTION.
5. INSTALL PIPE BETWEEN FITTINGS IF NECESSARY. INSTALL PER VERTICAL STACK PER DETAIL WW-7 IF NECESSARY OR WHERE SHOWN.
6. CLEANOUT RISER AND SHROUD SHALL BE INSTALLED PLUMB/LEVEL. CENTERLINE (CL) OF CLEANOUT RISER SHALL BE CENTERED ON PROPERTY LINE.
7. TAPPING SADDLES ARE NOT ALLOWED.

	GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	REVISED	SCALE
	NOVEMBER 2025	NONE	
WASTEWATER LATERAL AND CLEANOUT	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD		

DETAIL NO. WW-6



NOTES:
1. CONCRETE ENCASEMENT SHALL BE PLACED UPON AND AGAINST UNDISTURBED EARTH.
2. REFERENCE DETAIL WW-6 FOR ADDITIONAL REQUIREMENTS.
3. REFERENCE DETAIL W-1 FOR ADDITIONAL REQUIREMENTS.
4. UNLESS INDICATED OTHERWISE, INSTALL COMPONENTS PLUMB/LEVEL.

	GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	REVISED	SCALE
	NOVEMBER 2025	NONE	
WASTEWATER LATERAL VERTICAL STACK	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD		

DETAIL NO. WW-7

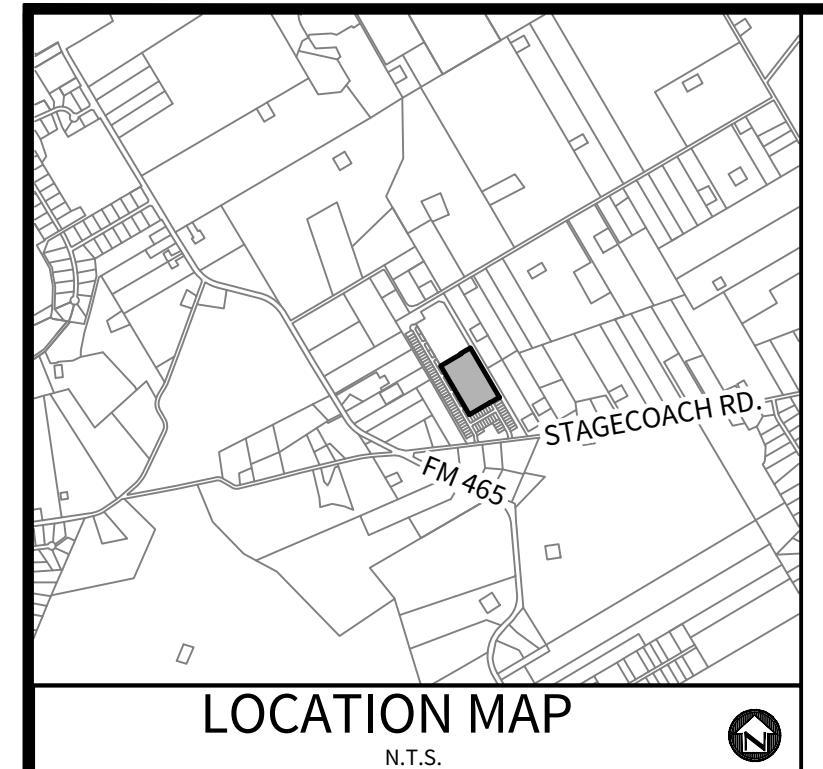
DATE	12/16/2025
PROJECT NO.	04127.005
DRAWN BY	CG/JG/LJ/TCD
CHECKED BY	XV/JC
REVISIONS	1. 2025-02-16 2. 2025-02-16 3. 2025-02-16 4. 2025-02-16 5. 2025-02-16 6. 2025-02-16 7. 2025-02-16 8. 2025-02-16

DATE	2025-02-16
STATE OF TEXAS	JAVIER CASTELLO PROFESS. ENGR. / OWNER ENGR.
CUDE ENGINEERS	TBP No. 455 TBPLS No. 10048500

C21

STETSON RIDGE
UNIT 2

ONSITE WATER DISTRIBUTION PLAN



LOCATION MAP
N.T.S.

OWNER/DEVELOPER:
MERITAGE HOMES OF TEXAS, L.L.C.
CONTACT PERSON: TONI ALEXANDER
2722 WEST BITTERS ROAD, SUITE 200
SAN ANTONIO, TX 78248
TEL: (210) 298-4294

CIVIL ENGINEER:
M.W. CUDE ENGINEERS, L.L.C.
CONTACT PERSON: XAVIER VASQUEZ
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TX 78231
TEL: (210) 681-2951
FAX: (210) 523-7112

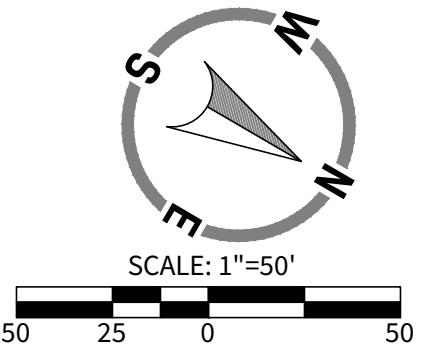
NOTES:
1. MOISTURE DENSITY COMPACTION TESTING FREQUENCY - WATER MAINS REQUIRED TO BE PERFORMED ON EACH VERTICAL FOOT OF COMPACTED BACKFILL. SERVICES RANDOMLY SELECTED AS REQUIRED BY GVSUD INSPECTOR.
2. ALL DUCTILE IRON PIPE TO BE AMERICAN, ZINC COATED, AWWA/ANSI C-151.
3. FIRE HYDRANTS SHALL BE MUELLER OR EJ TYPE AND SHALL BE 1 MINIMUM AND 7 MAXIMUM FROM THE BACK OF CURB.
4. DISINFECTION SHALL BE BY MACHINE CHLORINATION.
5. ALL TESTING AND TEST REPORTS SHALL BE COORDINATED WITH GVSUD INSPECTOR BY CONTRACTOR.
6. CONTRACTOR TO UTILIZE APPROVED WATER LINE STOPS AND/OR MUELLER INSERTION VALVES TO MINIMIZE WATER OUTAGES AS REQUIRED BY GVSUD DURING CONSTRUCTION.
7. CONTRACTOR TO INSTALL 24" C-909 CASING AROUND THE WATER MAIN WHEN UNDER PAVEMENT AT ALL PAVEMENT CROSSINGS. SEE GVSUD DETAIL W-8 SHEET C24
8. ALL STREET CROSSINGS TO BE CASED FROM EDGE OF IMPERMEABLE COVER TO EDGE OF IMPERMEABLE COVER.
9. ALL METERS TO SIT IN EASEMENT SEE GVSUD DETAIL W-22 SHEET C26
10. NO PRESSURIZED FITTING TO LIE BEHIND IMPERMEABLE COVER.

STETSON RIDGE UNIT 2 - WATER DISTRIBUTION ESTIMATED QUANTITY TAKE-OFF (CONTRACTOR RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES REQUIRED)			
Item No.	Description	Quantity	Units
1	8" PVC C-909 PC 235	2,084	LF
2	8" GATE VALVES	20	EA
3	FIRE HYDRANTS	5	EA
4	PIPE FITTINGS, ALL SIZES AND TYPES	165	TON
5	2" BLOWOFF, PERMANENT	1	EA
6	1" SINGLE LONG SERVICE (5/8" METER)	24	EA
7	1" SINGLE SHORT SERVICE (5/8" METER)	42	EA

STETSON RIDGE UNIT 2 - WATER DISTRIBUTION ESTIMATED QUANTITY TAKE-OFF (CONTRACTOR RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES REQUIRED)			
Item No.	Description	Quantity	Units
8	TRENCH EXCAVATION SAFETY PROTECTION	2,084	LF
9	HYDROSTATIC TESTING	1	EA
10	METER BOX (NON-STANDARD METER BOX)	66	EA
11	TIE TO EXISTING WATER MAIN	4	EA
12	24" STEEL CASING	60	LF
13	24" C-909 CASING	150	LF

TOTAL ACERAGE	10.72
TOTAL EDUS	66
TOTAL NUMBER OF LOTS	66

SEWER/WATER LINE CROSSINGS	
LINE	STATION
EX. "B"	14+55.52
EX. "B"	17+45.52
EX. "B"	20+35.52



LEGEND

OVERALL UNIT BOUNDARY	---
PROPOSED LOT LINE	- - -
PROPOSED RIGHT OF WAY	---
E.G.T.C.A. EASEMENT	- - -
EXISTING 2' CONTOUR	---
EXISTING 10' CONTOUR	---
EXISTING WATER LINE	Wx
EXISTING SEWER LINE	SSx
EXISTING MANHOLE	●
PROPOSED WATER LINE	W
PROPOSED WATER SERVICE	W
PROPOSED FIRE HYDRANT	W
PROPOSED SEWER MAIN	SS
PROPOSED SEWER FORCE MAIN	SM
PROPOSED MANHOLE	●
PROPOSED SEWER SERVICE	W
PROPOSED STREET LIGHT	●
PROPOSED JOINT RESTRAINT	XX
JOINT RESTRAINT ENTIRE LENGTH	XXL

CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

CITY OF MARION
GVSUD (830) 914-2391
GVTIC (830) 914-2330
BVEC (830) 885-4411
DRC TEE (830) 885-3435
TEXAS STATE WIDE ONE CALL LOCATORS (1-800) 244-8377
(1-800) 545-6005 OR 811

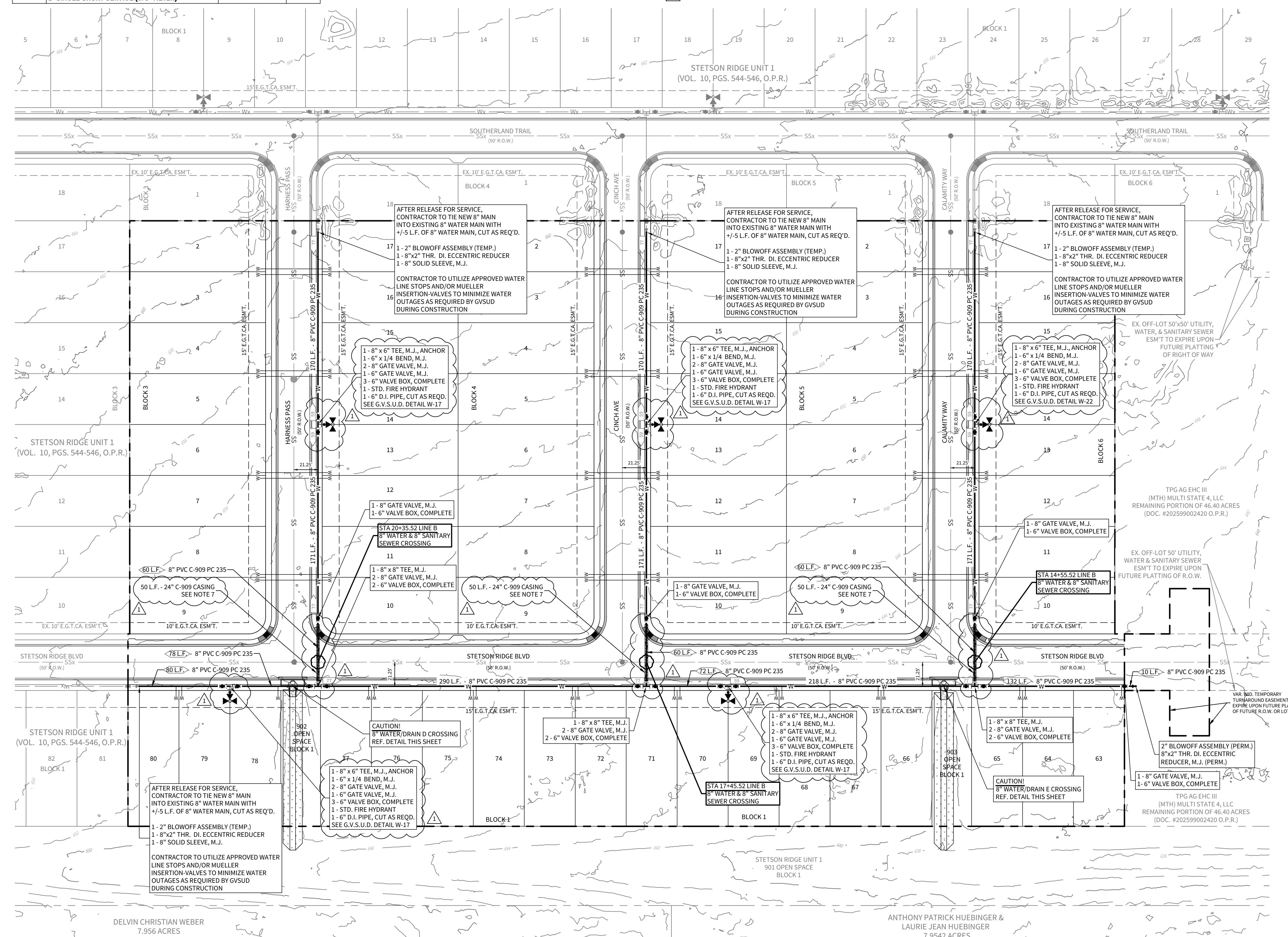
NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 90% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE GVSUD INSPECTOR/TEST ADMINISTER, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY GVSUD WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

TRENCH EXCAVATION PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL AND SOIL INFORMATION AND DETERMINE THE EXACT LOCATION WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVE FOR AN APPROPRIATE TRENCH EXCAVATION SAFETY PROTECTION SYSTEM AND CONFORM TO APPROPRIATE 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 THE OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!
EXCAVATING WITHIN THE LIMITS OF EXISTING UTILITIES, CONTRACTOR SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND.

CAUTION!!
THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC LINES EXIST WITHIN THE VICINITY OF THE SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING FACILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.



**STETSON RIDGE
UNIT 2**

WATER DISTRIBUTION PLAN DETAILS

DATE
12/16/2025

PROJECT NO.
04127.005

DRAWN BY
CG/JG/LJ/TCD

CHECKED BY
XV/JC

REVISIONS
1. 205/12/16
2. 1. 3. 4. 5. 6. 7. 8. 9.

DATE
12/16/2025
PROJECT NO.
04127.005
DRAWN BY
CG/JG/LJ/TCD
CHECKED BY
XV/JC

STATE OF TEXAS
JAVIER CASTELLO
12270
LICENSED PROFESSIONAL ENGINEER
3/16/2025
CUDE ENGINEERS
TBPL No. 455
TBPLS No. 10048500

C24

**GREEN VALLEY SPECIAL UTILITY DISTRICT
WATER SYSTEM GENERAL NOTES**

CONSTRUCTION NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH GVSUD STANDARDS AS PUBLISHED AT THE FOLLOWING WEBSITE: [HTTP://WWW.GVSUD.ORG/](http://www.gvsud.org/)
- MATERIAL SUBMITTALS SHALL BE PROVIDED FOR GVSUD REVIEW AND APPROVAL. ALLOW 21 CALENDAR DAYS FOR REVIEW.
- ALL WATER INSTALLATIONS MUST BE INSPECTED AND APPROVED BY GVSUD PRIOR TO BACKFILLING OR OTHERWISE COVERING THE WORK. GVSUD WILL REJECT ANYTHING BACKFILLED PRIOR TO GVSUD APPROVAL. THIS INCLUDES CROSSINGS OF WATER AND WASTEWATER BY OTHER UTILITIES. GVSUD WILL PERFORM A MAXIMUM OF ONE (1) INSPECTION DAILY FOR ONE (1) HOUR DURATION BETWEEN 7:30AM AND 4:00PM EXCLUDING WEEKENDS AND HOLIDAYS. CALL TO SCHEDULE INSPECTIONS (48-HOURS ADVANCE NOTICE IS REQUIRED FOR ALL INSPECTIONS).
- TRENCH EXCAVATION AND PIPE INSTALLATION WILL NOT BE PERMITTED UNTIL SUBGRADE HAS BEEN ESTABLISHED. SURVEY STAKING MUST BE INSTALLED PRIOR TO AND MAINTAINED DURING TRENCH EXCAVATION AND PIPE INSTALLATION. SURVEY STAKING SHALL INCLUDE HORIZONTAL AND VERTICAL CONTROL AT A MINIMUM OF 50-FOOT STATION INTERVAL. SURVEY STAKING SHALL BE PERFORMED BY THE CONTRACTOR.
- PROPER SHORING AND/OR BENCHING MUST BE PROVIDED AT ALL TIMES FOR ANYTHING 4-FEET IN DEPTH OR DEEPER. GVSUD WILL STOP WORK UNTIL PROPER SHOREING AND BENCHING HAVE BEEN PROVIDED.
- BACKFLOW PREVENTION IN THE FORM OF A REDUCED PRESSURE ZONE BACKFLOW PREVENTION ASSEMBLY MUST BE PROVIDED FOR TEMPORARY CONNECTIONS TO EXISTING WATER LINES. BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED BY A LICENSED BACKFLOW PREVENTION ASSEMBLY TESTER.
- ALL PIPING SHALL BE INSTALLED IN STRAIGHT ALIGNMENT. PIPE DEFLECTION IS NOT ALLOWED.
- INSTALL CONCRETE THRUST BLOCKING AND MECHANICAL RESTRAINTS FOR PRESSURIZED PIPING SYSTEMS.
- WATER PIPE SHALL BE INSTALLED ABOVE WASTEWATER AND ALL PIPE JOINTS SHALL BE CENTERED AT CROSSINGS WITH ALL OTHER UTILITIES. BOTH PIPE JOINTS SHALL BE CENTERED WHERE WATER CROSSES WASTEWATER MAINS AND LATERALS 10-FEET IN EITHER DIRECTION.
- Maintain a minimum of 10-feet horizontal and 24-inch vertical clearance between water and wastewater and other utilities. Shared trenches are not allowed.
- WATER PIPING SHALL BE SLEVED IF LOCATED UNDER BOX CULVERTS, SINGLE BARREL, OR MULTIPLE BARREL STORM SEWER CROSSINGS REGARDLESS OF SIZE.
- VALVE BOXES AND APPURTENANCES SHALL BE PAINTED. PROVIDE PAINTED CURB CUT MARKINGS AT VALVES AND SERVICES.
- ALL EXPOSED VERTICAL AND HORIZONTAL CONCRETE EDGES SHALL BE FORMED WITH $\frac{1}{2}$ " CHAMFER STRIPS. CONCRETE IN UNPAVED AREAS SHALL BE 2" ABOVE FINISH GRADE.
- THE CONTRACTOR SHALL PROVIDE A COMPETENT AND QUALIFIED SUPERINTENDENT TO SUPERVISE ALL WORK. THE SUPERINTENDENT SHALL BE PRESENT DURING ALL CONSTRUCTION ACTIVITIES, INCLUDING INSPECTIONS.

NO SEPARATE PAY WILL BE GIVEN TO DE-WATER TRENCHES OR OTHER EXCAVATED AREAS.

NOTES: 1. ALL TEES SHALL INCLUDE THREE (3) VALVES.

2. VALVES SHALL BE AWWA APPROVED RESILIENT WEDGE SEATED GATE VALVE, OPEN LEFT, AND LIMITED TO THOSE MANUFACTURED BY MUELLER, AVK, AMERICAN FLOW, CLOW, OR EAST JORDAN. ONLY MUELLER HYDRANTS AND EJ SHALL BE USED IN CITY OF CIBOLO'S JURISDICTION. HYDRANT UPPER BARREL SHALL BE FACTORY PAINTED RED. HYDRANTS SHALL HAVE A STORZ CONNECTION ON STEAMER NOZZLE FITTINGS FOR PLUG SHALL BE FULLY RESTRAINED AND TIED TO VALVE.

3. ALL FIRE HYDRANT ASSEMBLIES SHALL HAVE AN IN-LINE UPSTREAM AND DOWNSTREAM VALVE.

4. ALL TEES SHALL INCLUDE THREE (3) VALVES.

5. VALVES SHALL BE AWWA APPROVED RESILIENT WEDGE SEATED GATE VALVE, OPEN LEFT, AND LIMITED TO THOSE MANUFACTURED BY MUELLER, AVK, AMERICAN FLOW, CLOW, OR EAST JORDAN.

6. VALVES ARE PROHIBITED IN ADA RAMPS, CURBS, AND ROADWAYS. VALVES ARE PROHIBITED IN SIDEWALKS IN CITY OF NEW BRAUNFELS.

7. METER BOXES ARE PROHIBITED IN ANY SIDEWALKS, DRIVEWAYS, OR ROADWAYS.

8. SMALL SERVICE TAPS SHALL BE 1-INCH REHAU MUNICIPAL WITH CTS 200 PSI PLASTIC INSERT OR 2-INCH YELOMINE PVC ASTM D1784 WITH HARCO FITTINGS OR APPROVED EQUIVALENT. SMALL SERVICE TAPS TO BE MADE WITH SINGLE BRASS STRAP TAPPING SADDLE OR DUAL BANDED STAINLESS-STEEL FLAT-STRAP EPOXY SADDLE WITH IRON PIPE THREADS.

9. CASING REQUIRED FOR ALL LONG SMALL SERVICES. 1-INCH SERVICE REQUIRES 3-INCH CASING AND 2-INCH SERVICE REQUIRES 4-INCH CASING. CASING SHALL BE WHITE COLOR PVC SCHEDULE 40 OR APPROVED EQUAL.

10. 5/8" & 3/4" METER BOXES SHALL BE DFW36C 16" X 11". ALL METER BOXES SHALL BE PVC COLOR.

11. DUAL SERVICES ARE NOT PERMITTED.

12. PAINTED MACHINING MUST RETAIN COUPON.

13. CONTRACTOR TO CURB CUT VS FOR VALVES AND XS FOR METERS AND PAINT BLUE.

20. WATER LINES CROSSING CUL-DE-SACS SHALL BE FULLY RESTRAINED UNDER PAVEMENT AND CASED.

21. ALL STREET CROSSINGS ARE TO BE CASED FROM EDGE OF IMPERMEABLE COVER TO EDGE OF IMPERMEABLE COVER.

22. ALL BENDS, FITTINGS, AND VALVES SHALL HAVE ONE (1) RESTRAINT UPSTREAM AND DOWNSTREAM REGARDLESS OF LENGTH.

23. CONTRACTOR SHALL CHLORINATE NEW MAINS PER TCEQ AND ANSI/AWWA C65.1 AND DECHLORINATE DURING FLUSHING PER ANSI/AWWA C65.5. THE CONTRACTOR SHALL COORDINATE WITH THE GVSUD INSPECTOR TO WITNESS CHLORINATING AND PRESSURE TESTING OF NEW MAINS. ALL TEST RESULTS MUST BE PROVIDED TO GVSUD.

24. OPERATION OF EXISTING VALVES IN THE GVSUD WATER DISTRIBUTION SYSTEM SHALL BE OPERATED BY GVSUD PERSONNEL ONLY, UNLESS APPROVED BY GVSUD INSPECTOR.

25. NEW WATER MAINS AND APPURTENANCES SHALL PASS PRESSURE TESTING AND PASS THE MINIMUM PUBLIC HEALTH STANDARDS FOR BACTERIOLOGICAL QUALITY TESTING PRIOR TO ANY TIE TO THE EXISTING GVSUD WATER SYSTEM AS REQUIRED BY TCEQ AND ANSI/AWWA.

26. HYDROSTATIC PRESSURE TESTING SHALL BE EVERY 1200 LF (MAX) OF WATER LINE OR AS APPROVED BY THE ENGINEER. ALL ERRORS OF WORKMANSHIP SHALL BE CORRECTED IMMEDIATELY. ALL PARTS OF THE PIPELINE SHALL BE BACKFILLED AND BRACED SUFFICIENTLY TO PREVENT MOVEMENT UNDER PRESSURE.

27. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL THE INFORMATION AS REQUIRED SO THAT THE ENGINEER CAN SUPPLY GVSUD THE GIS PACKAGE FOR APPROVAL.

28. A FINAL WALK THROUGH FOR FIELD ACCEPTANCE WILL BE SCHEDULED WITH THE CONTRACTOR AFTER THE PRELIMINARY WALK-THROUGH PUNCH LIST ITEMS HAVE BEEN COMPLETED.

29. PROVIDE RESTRAINT LENGTHS AT ALL BENDS, VALVES, TEES, AND ALL OTHER FITTINGS.

30. ALL MASTER METERED DISTRIBUTION LINES SHALL BE PROTECTED BY AN RPZ BACKFLOW PREVENTER.

31. ALL NON-CHEMICAL FIRE LINES SHALL BE PROTECTED BY A DCDA BACKFLOW PREVENTER.

32. ALL CHEMICALLY INJECTED FIRE LINES SHALL BE PROTECTED BY AN RPZ BACKFLOW PREVENTER.

MATERIALS

1. PVC MAINS 12 INCHES AND BELOW SHALL CONFORM TO AWWA C-909 PRESSURE CLASS 235 OR ABOVE. PVC MAIN GREATER THAN 12 INCHES SHALL CONFORM TO AWWA C-900 DR 18 OR ABOVE. WATER MAINS SHALL HAVE AN ABSOLUTE MINIMUM DEPTH OF 48 INCHES IN ALL AREAS.

2. 2-INCH SERVICE CROSSINGS SHALL BE YELOMINE ASTM D2241 OR APPROVED EQUIVALENT.

3. TAPPING SADDLES SHALL BE SINGLE BRASS STRAP OR DUAL BANDED STAINLESS-STEEL FLAT-STRAP EPOXY SADDLE WITH IRON PIPE THREADS.

4. ALL FASTENERS SHALL BE 304 STAINLESS-STEEL (E.G. HARDWARE, SCREWS, ANCHOR BOLTS, RODS, FLANGE BOLTS AND NUTS, ETC.) ALL BOLTS AND NUTS SHALL BE HEAVY HEX FIELD-APPLIED NICKEL ANTI-SEIZE COMPOUND PRIOR TO ASSEMBLY. BOLTS AND NUTS SHALL NOT BE PAINTED.

5. ALL BURIED METAL PIPE, FITTINGS, AND VALVES SHALL BE WRAPPED WITH 8MIL POLY.

6. PAINT SHALL BE HIGH-BUILD EPOXY WITH TOPCOAT OF POLYURETHANE.

7. ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON C151 OR APPROVED EQUIVALENT.

TESTING

1. ALL TESTING SHALL BE ARRANGED AND PAID FOR BY THE CONTRACTOR AND WITNESSED BY GVSUD.

2. ALL TESTING MUST BE COMPLETE PRIOR TO PAVING STREETS.

3. THE CONTRACTOR SHALL PROVIDE GVSUD COPIES OF ALL TEST RESULTS PRIOR TO ACCEPTANCE OF THE PROJECT.

4. ALL TESTING MUST BE COMPLETE PRIOR TO PERFORMING TIE-INS TO EXISTING WATER SYSTEMS.

5. ALL OTHER UTILITIES MUST BE COMPLETE AND OFFSITE PRIOR TO PERFORMING HYDROSTATIC PRESSURE TESTING.

6. CONTRACTOR SHALL PERFORM SPIKE TEST AT 200 PSI FOR 15 MINUTES THEN REDUCE PRESSURE TO 150 PSI FOR 2 HOURS.

7. CONTRACTOR SHALL PERFORM PRE-TESTING TO VERIFY PASSING RESULTS PRIOR TO REQUESTING GVSUD INSPECTION. PROVIDE CONNECTION POINT FOR GVSUD DIGITAL TEST GAUGE (QUICK CONNECT).

8. PERFORM TRENCH BACKFILL DENSITY TESTING AT INTERVALS SPECIFIED BY THE DESIGN ENGINEER, EXACT LOCATIONS TO BE DESIGNATED BY INSPECTOR. SCHEDULE WITH GVSUD TO WITNESS 48 HOURS PRIOR TO TEST. PROVIDE COPIES OF REPORTS TO GVSUD.

9. HYDROSTATIC PRESSURE TESTING SHALL BE EVERY 1200 LF (MAX) OF WATER LINE OR AS APPROVED BY THE ENGINEER. ALL ERRORS OF WORKMANSHIP SHALL BE CORRECTED IMMEDIATELY. ALL PARTS OF THE PIPELINE SHALL BE BACKFILLED AND BRACED SUFFICIENTLY TO PREVENT MOVEMENT UNDER PRESSURE.

10. WHEN TRENCHING IN ROCK CONDITIONS, WIDTH MAY BE REDUCED FROM 12 INCHES DOWN TO 6 INCHES.

11. CONCRETE RETARDANT SHALL BE PLACED ON SLOPES GREATER THAN 10% WITH MAXIMUM SPACING OF 20 FEET.

12. WHEN TRENCHING IN ROCK CONDITIONS, WIDTH MAY BE REDUCED FROM 12 INCHES DOWN TO 6 INCHES.

13. HYDROSTATIC PRESSURE TESTING SHALL BE EVERY 1200 LF (MAX) OF WATER LINE OR AS APPROVED BY THE ENGINEER. ALL ERRORS OF WORKMANSHIP SHALL BE CORRECTED IMMEDIATELY. ALL PARTS OF THE PIPELINE SHALL BE BACKFILLED AND BRACED SUFFICIENTLY TO PREVENT MOVEMENT UNDER PRESSURE.

14. CONTRACTOR SHALL PERFORM PRE-TESTING TO VERIFY PASSING RESULTS PRIOR TO REQUESTING GVSUD INSPECTION. PROVIDE CONNECTION POINT FOR GVSUD DIGITAL TEST GAUGE (QUICK CONNECT).

15. PERFORM TRENCH BACKFILL DENSITY TESTING AT INTERVALS SPECIFIED BY THE DESIGN ENGINEER, EXACT LOCATIONS TO BE DESIGNATED BY INSPECTOR. SCHEDULE WITH GVSUD TO WITNESS 48 HOURS PRIOR TO TEST. PROVIDE COPIES OF REPORTS TO GVSUD.

16. HYDROSTATIC PRESSURE TESTING SHALL BE EVERY 1200 LF (MAX) OF WATER LINE OR AS APPROVED BY THE ENGINEER. ALL ERRORS OF WORKMANSHIP SHALL BE CORRECTED IMMEDIATELY. ALL PARTS OF THE PIPELINE SHALL BE BACKFILLED AND BRACED SUFFICIENTLY TO PREVENT MOVEMENT UNDER PRESSURE.

17. CONTRACTOR SHALL PERFORM PRE-TESTING TO VERIFY PASSING RESULTS PRIOR TO REQUESTING GVSUD INSPECTION. PROVIDE CONNECTION POINT FOR GVSUD DIGITAL TEST GAUGE (QUICK CONNECT).

18. PERFORM TRENCH BACKFILL DENSITY TESTING AT INTERVALS SPECIFIED BY THE DESIGN ENGINEER, EXACT LOCATIONS TO BE DESIGNATED BY INSPECTOR. SCHEDULE WITH GVSUD TO WITNESS 48 HOURS PRIOR TO TEST. PROVIDE COPIES OF REPORTS TO GVSUD.

19. HYDROSTATIC PRESSURE TESTING SHALL BE EVERY 1200 LF (MAX) OF WATER LINE OR AS APPROVED BY THE ENGINEER. ALL ERRORS OF WORKMANSHIP SHALL BE CORRECTED IMMEDIATELY. ALL PARTS OF THE PIPELINE SHALL BE BACKFILLED AND BRACED SUFFICIENTLY TO PREVENT MOVEMENT UNDER PRESSURE.

20. CONTRACTOR SHALL PERFORM PRE-TESTING TO VERIFY PASSING RESULTS PRIOR TO REQUESTING GVSUD INSPECTION. PROVIDE CONNECTION POINT FOR GVSUD DIGITAL TEST GAUGE (QUICK CONNECT).

21. PERFORM TRENCH BACKFILL DENSITY TESTING AT INTERVALS SPECIFIED BY THE DESIGN ENGINEER, EXACT LOCATIONS TO BE DESIGNATED BY INSPECTOR. SCHEDULE WITH GVSUD TO WITNESS 48 HOURS PRIOR TO TEST. PROVIDE COPIES OF REPORTS TO GVSUD.

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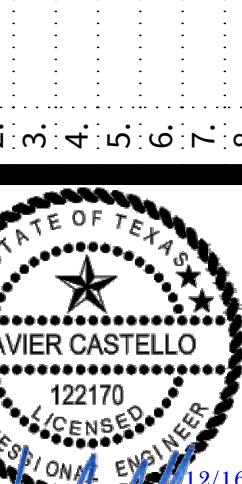
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**STETSON RIDGE
UNIT 2
WATER DISTRIBUTION PLAN DETAILS**

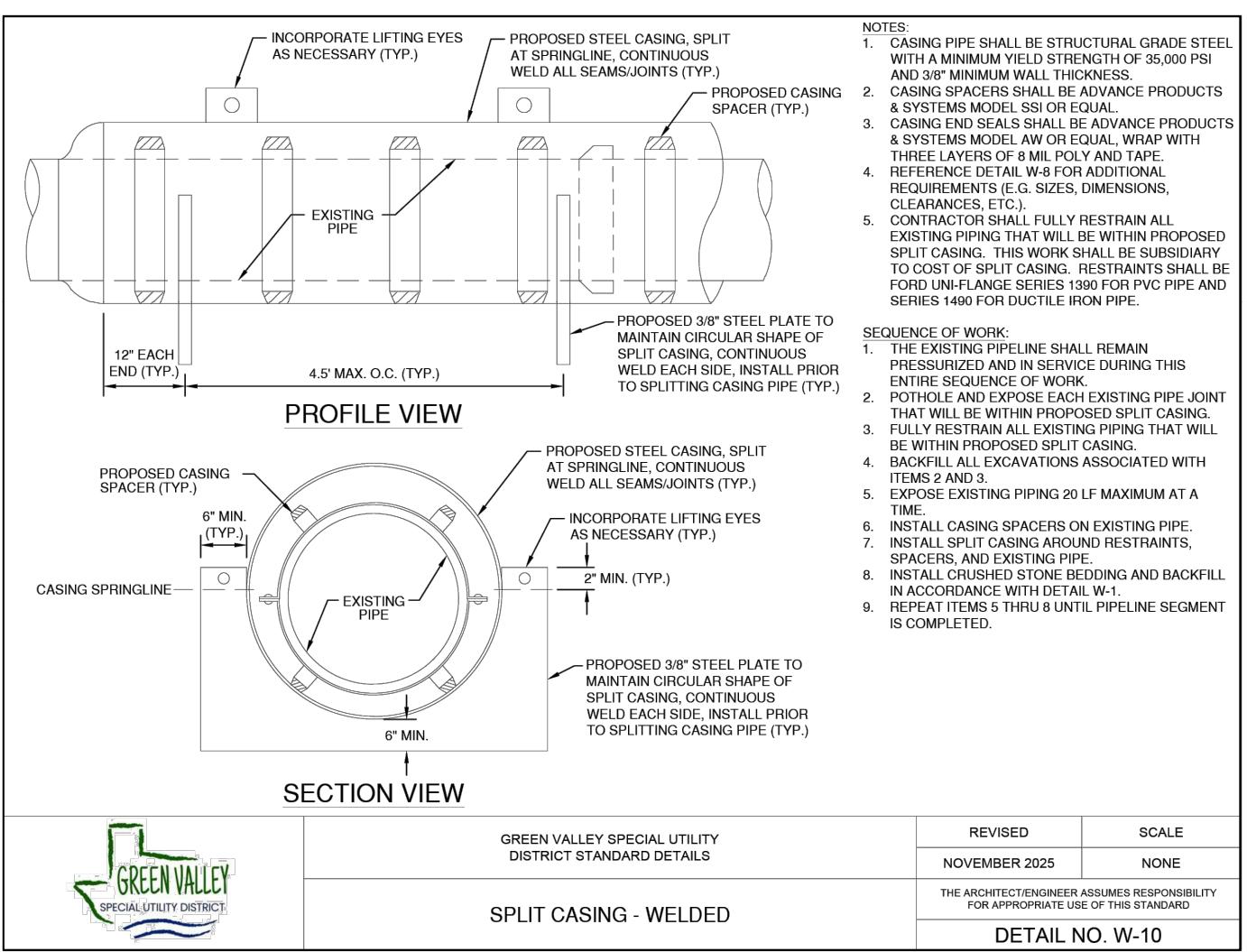
DATE
12/16/2025
PROJECT NO.
04127.005
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CG/JG/LJ/TCD
CHECKED BY
XV/JC

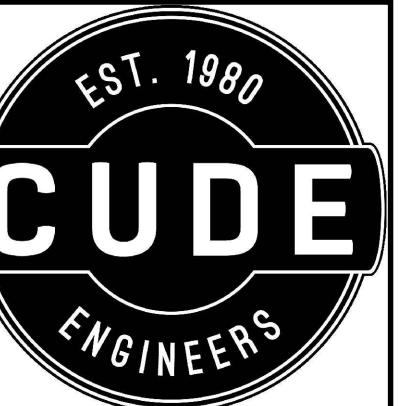
REVISIONS
1. 2025-12-16
2. 1. 2. 3. 4. 5. 6. 7. 8. 9.



JAVIER CASTELLO
PROFESS. ENGR. #122170
CUDE ENGINEERS
TPB No. 455
TBPL No. 10048500

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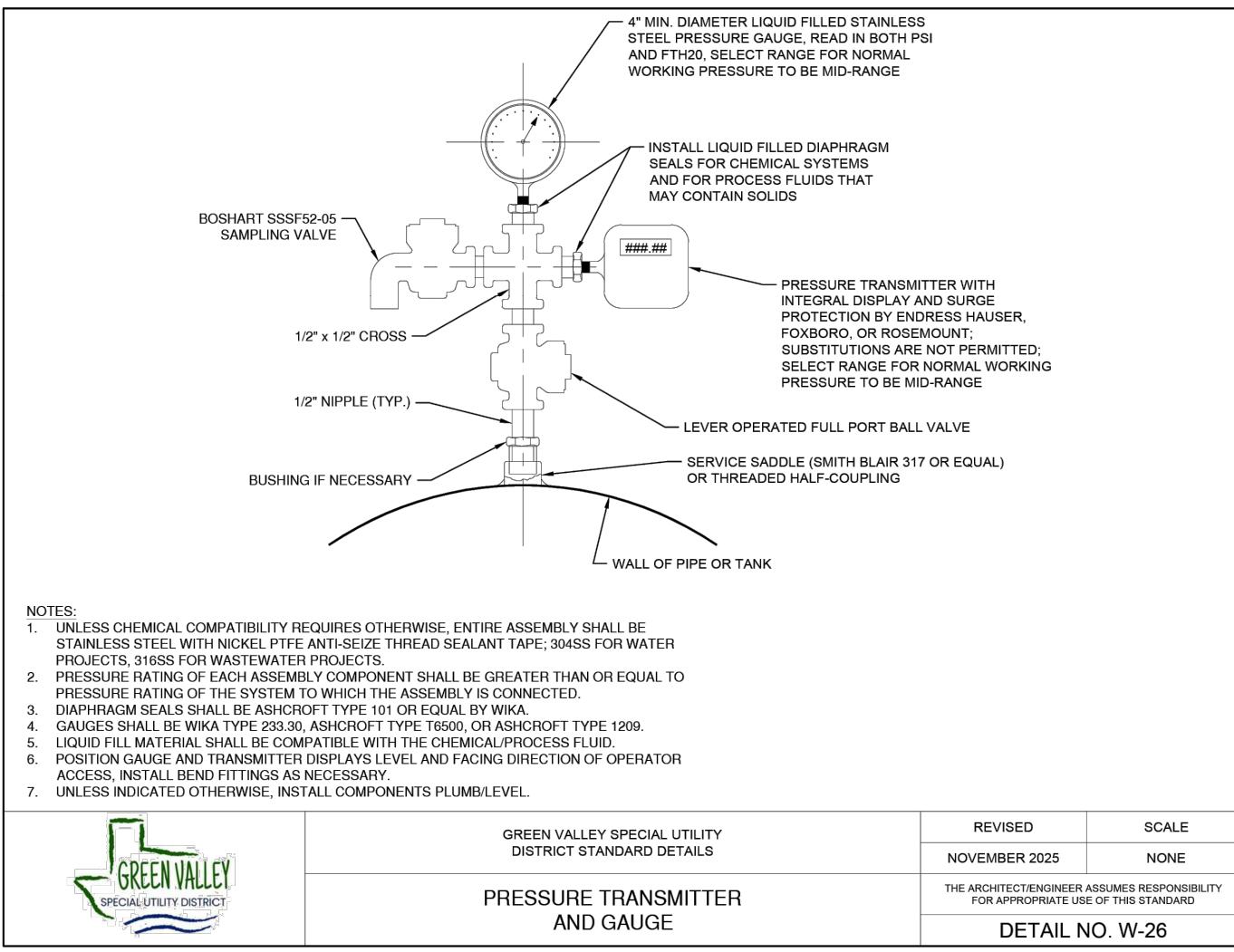
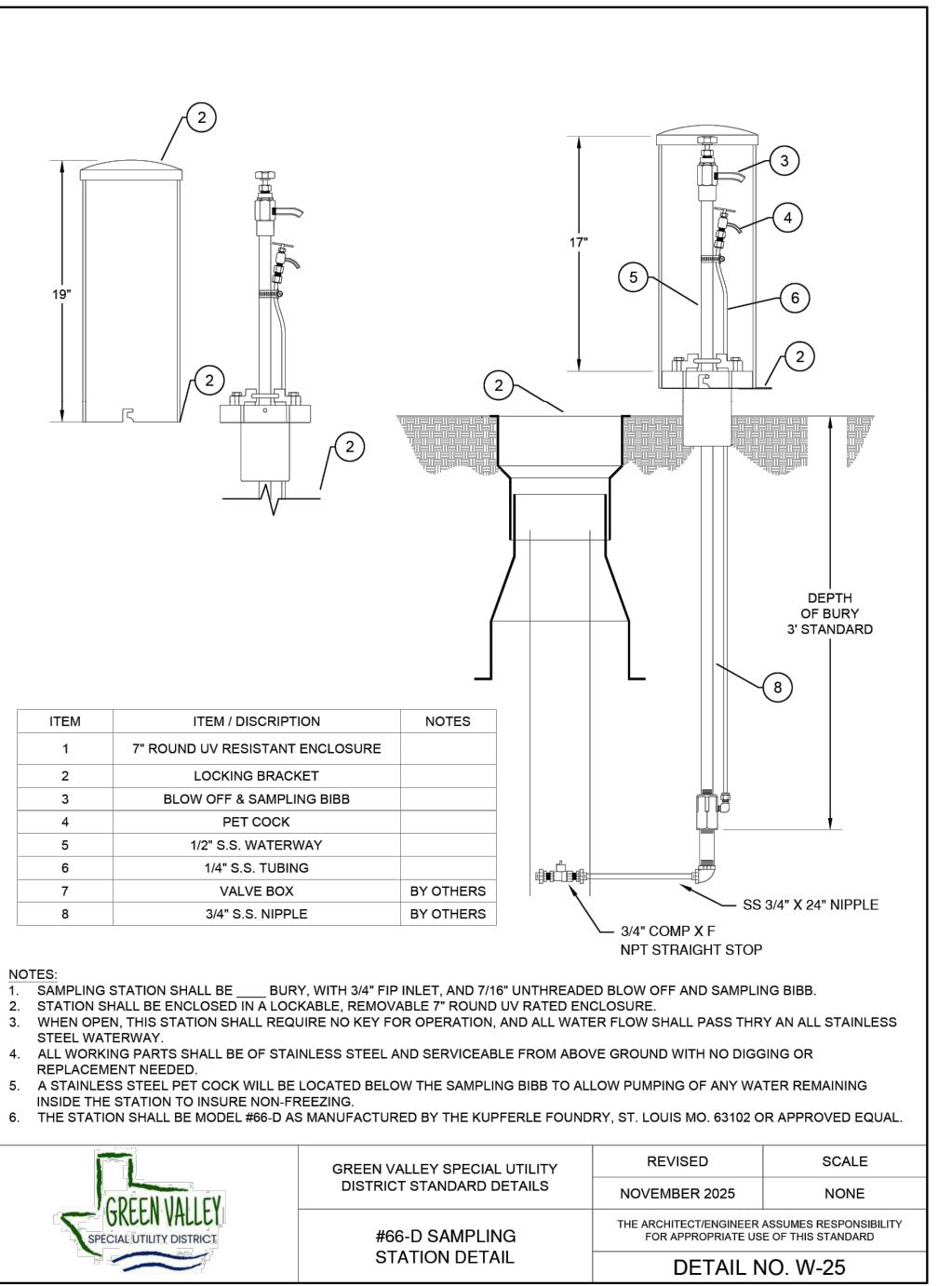
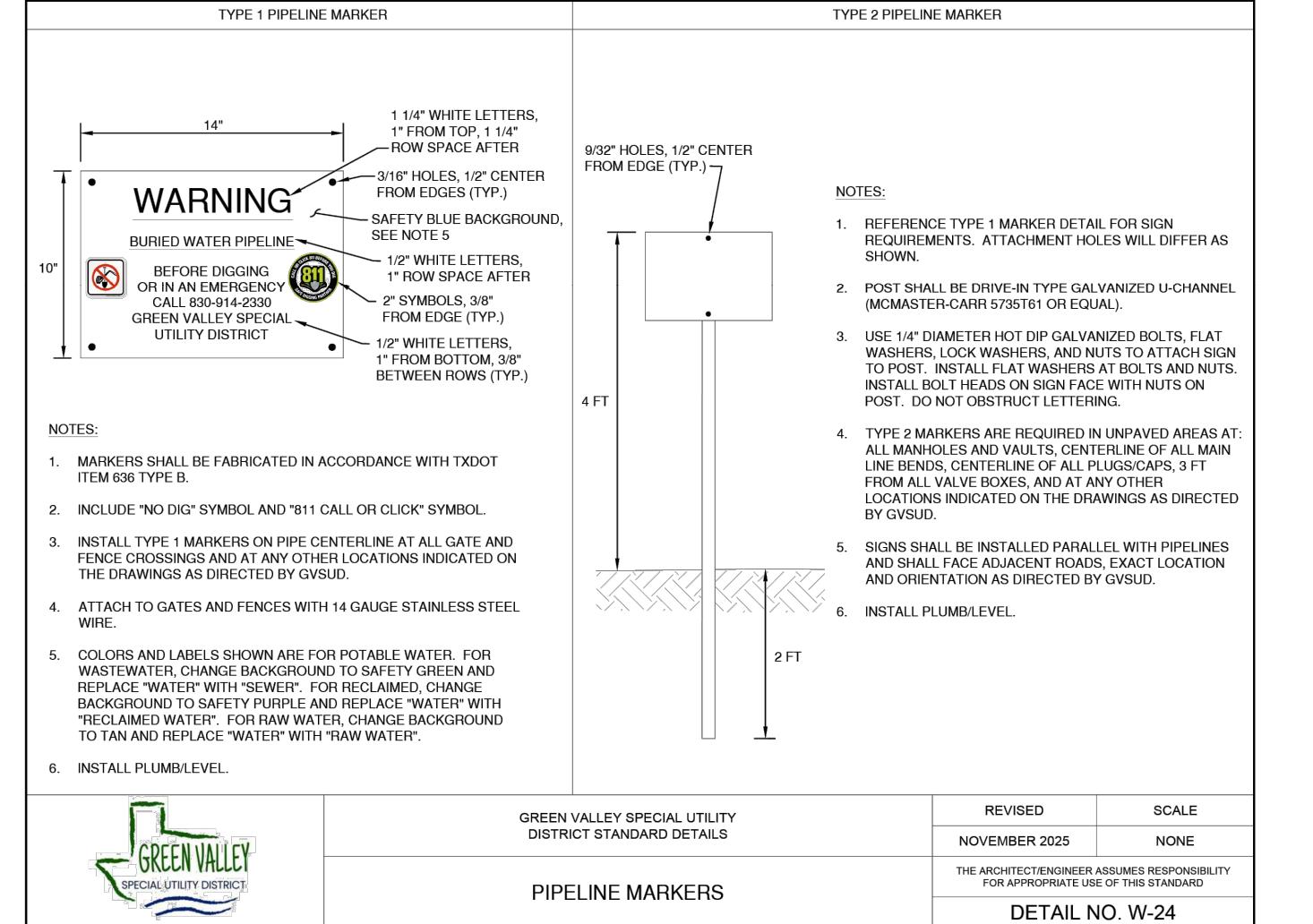
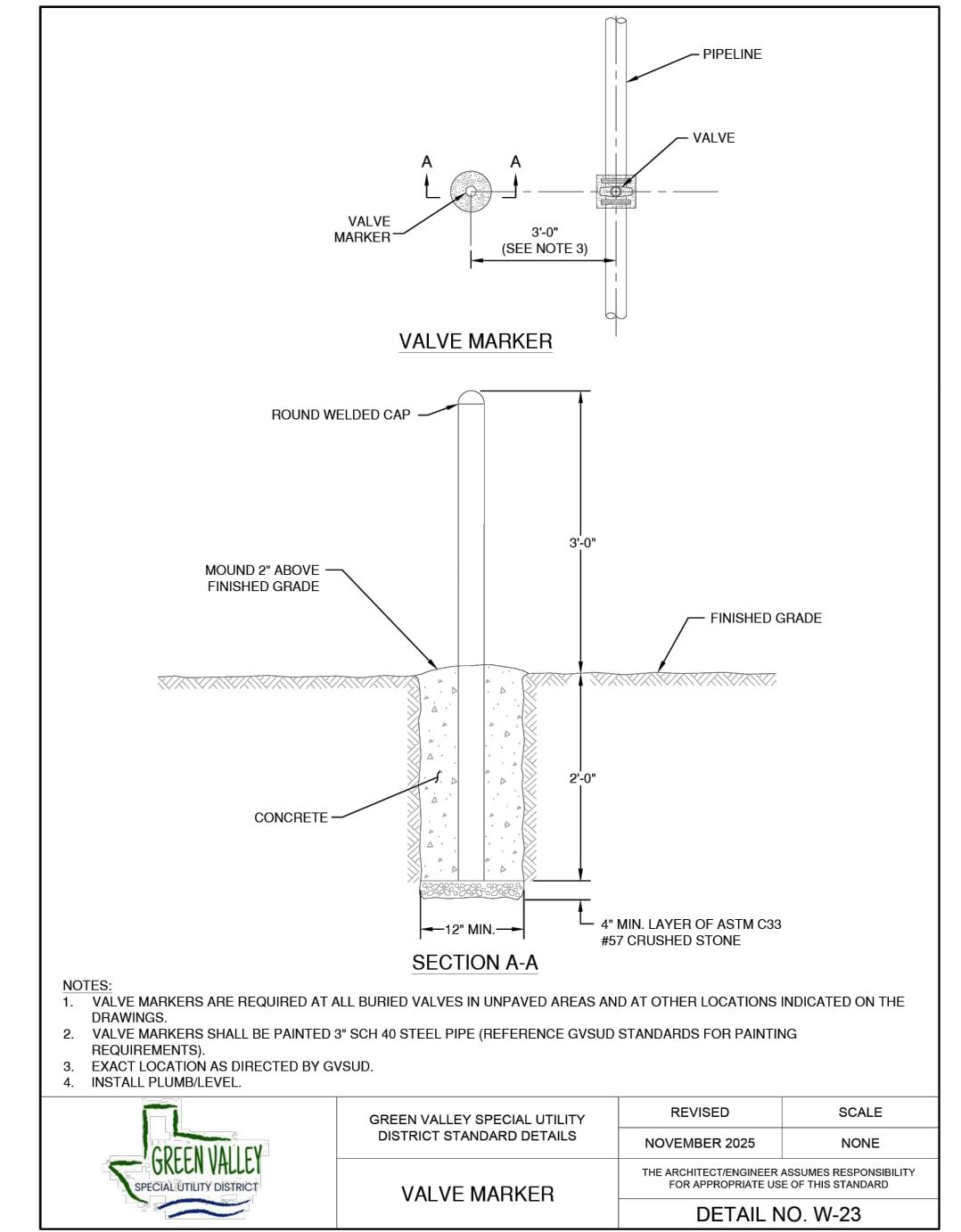
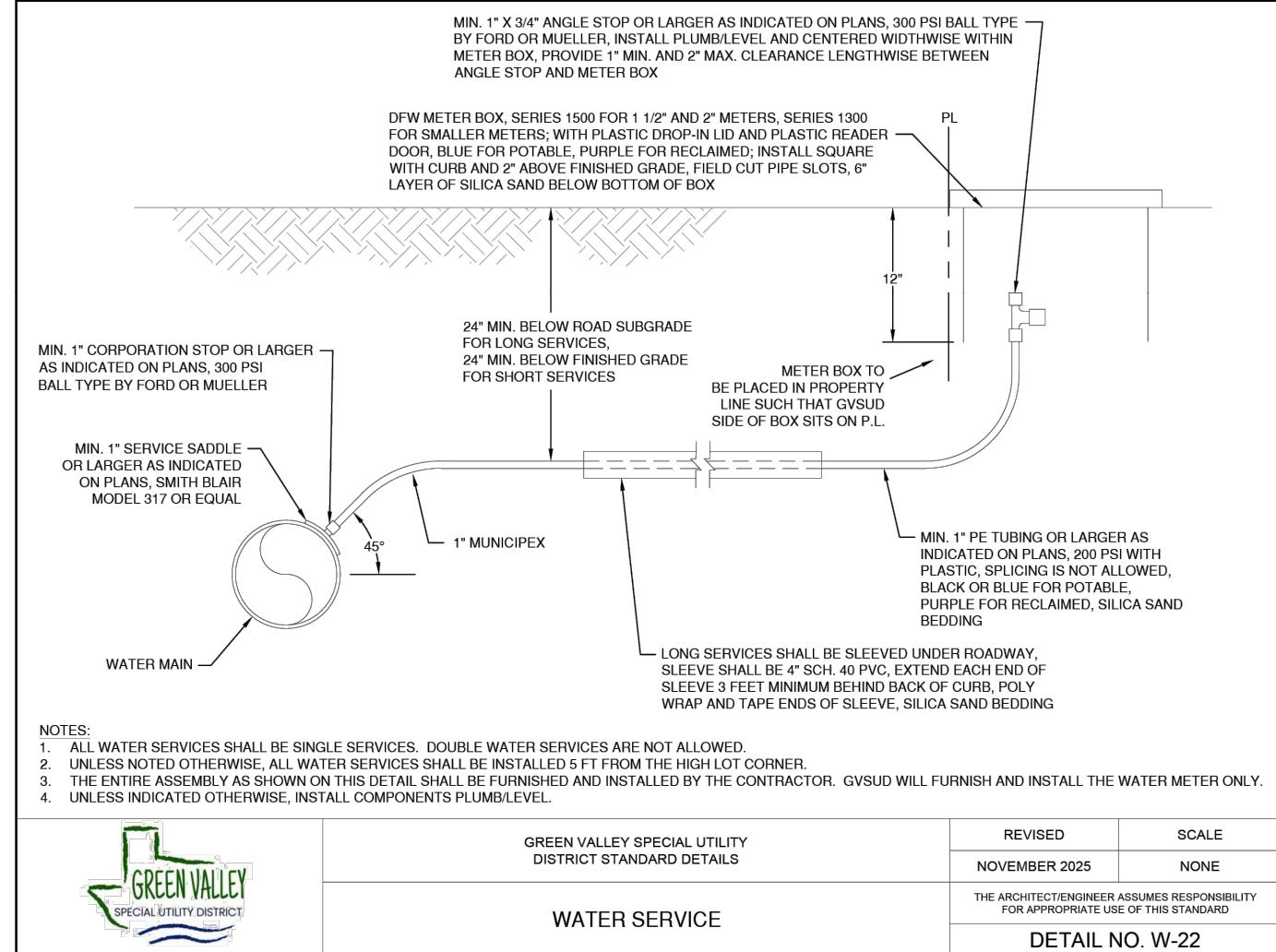




4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

STETSON RIDGE UNIT 2

WATER DISTRIBUTION PLAN DETAILS

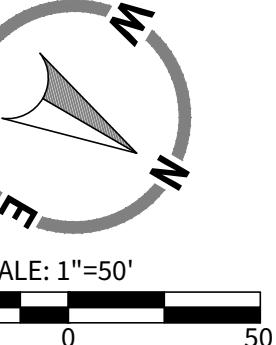


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1. 2025-12-16
2. 3. 4. 5. 6. 7. 8. 9.

DATE
2025-12-16
1. 2. 3. 4. 5. 6. 7. 8. 9.
STATE OF TEXAS
JAVIER CASTELLO
PROFESSIONAL ENGINEER
12/21/2025
CUDE ENGINEERS
TBPENo. 455
TBPLS No. 10048500

C26



LEGEND

OVERALL UNIT BOUNDARY	
PROPOSED LOT LINE	
PROPOSED RIGHT OF WAY	
E.G.T.CA. EASEMENT	
EXISTING 2' CONTOUR	
EXISTING 10' CONTOUR	
EXISTING WATER LINE	
EXISTING SEWER LINE	
EXISTING MANHOLE	
PROPOSED WATER LINE	
PROPOSED WATER SERVICE	
PROPOSED FIRE HYDRANT	
PROPOSED SEWER MAIN	
PROPOSED SEWER FORCE MAIN	
PROPOSED MANHOLE	
PROPOSED SEWER SERVICE	
PROPOSED STREET LIGHT	

CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR WILL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.

CITY OF MARION (830) 914-2391
GVUSD (830) 914-2330
GVEC (830) 885-4411
DIG TESS 1-800-401-8345
TEXAS STATE WIDE ONE CALL LOCATORS 1-800-344-8377
1-800-545-0605 OR 811

NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 90% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE GVUSD INSPECTOR/TEST ADMINISTER, PER EACH 12-INCH LOADE LIFT PER 400 LINEAR FEET. A MINIMUM OF THREE TESTS WILL NOT BE REQUIRED AND FINISHED BY CONTRACTOR WITHOUT THE REQUIREMENT BEING NOTIFIED AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

TRENCH EXCAVATION PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WHICH MAY REQUIRE THE USE OF TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION TO COMPLY WITH ASAE, OSHA STANDARDS, TRENCH REGULATIONS, 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!!
EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND.

CAUTION!!
THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC LINES EXIST WITHIN THE VICINITY OF THE SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION AND EXERCISE CARE IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING FACILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.

STETSON RIDGE UNIT 2

UTILITY LAYOUT PLAN

DATE
12/16/2025

PROJECT NO.
04127.005

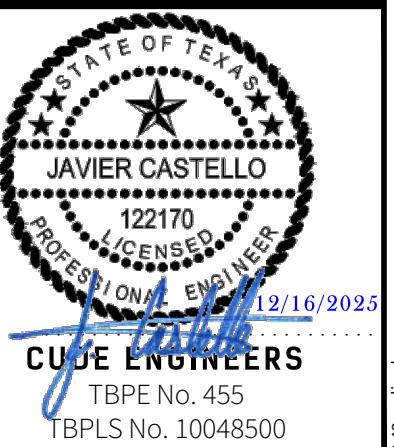
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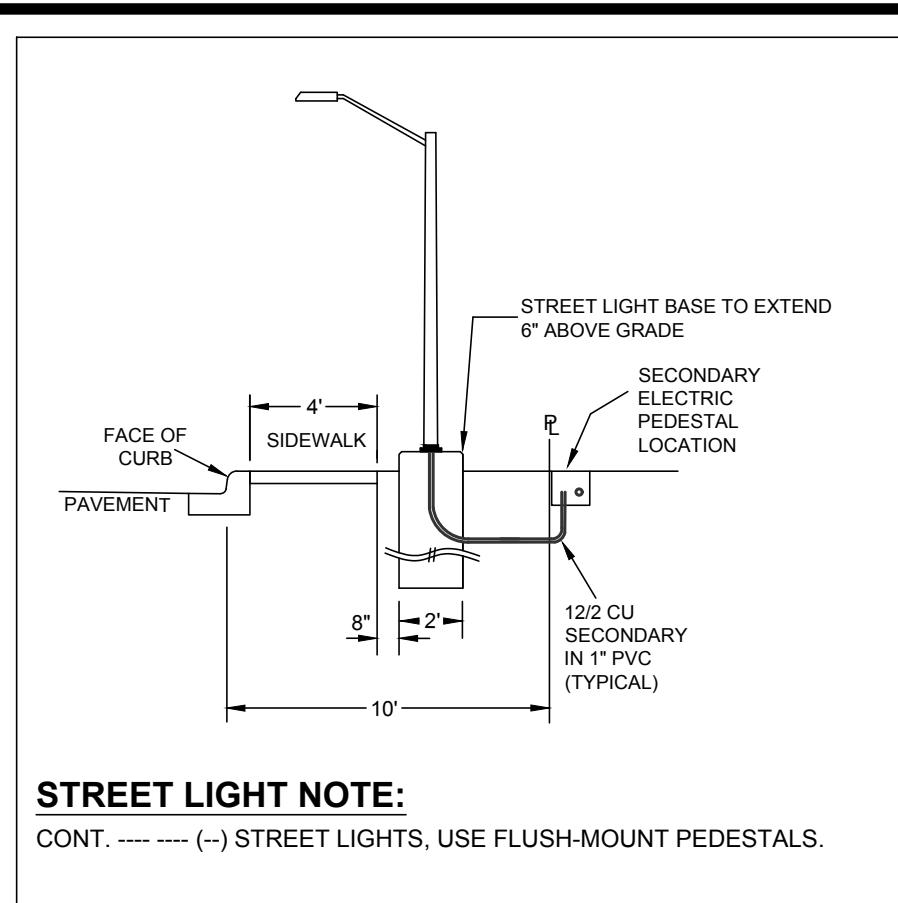
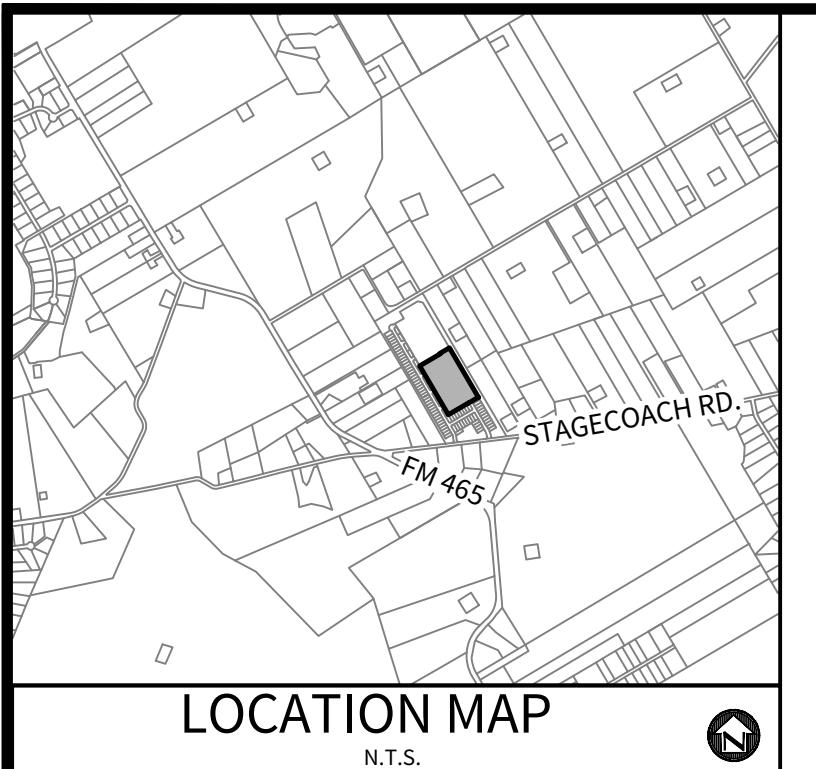
REVISIONS

DATE

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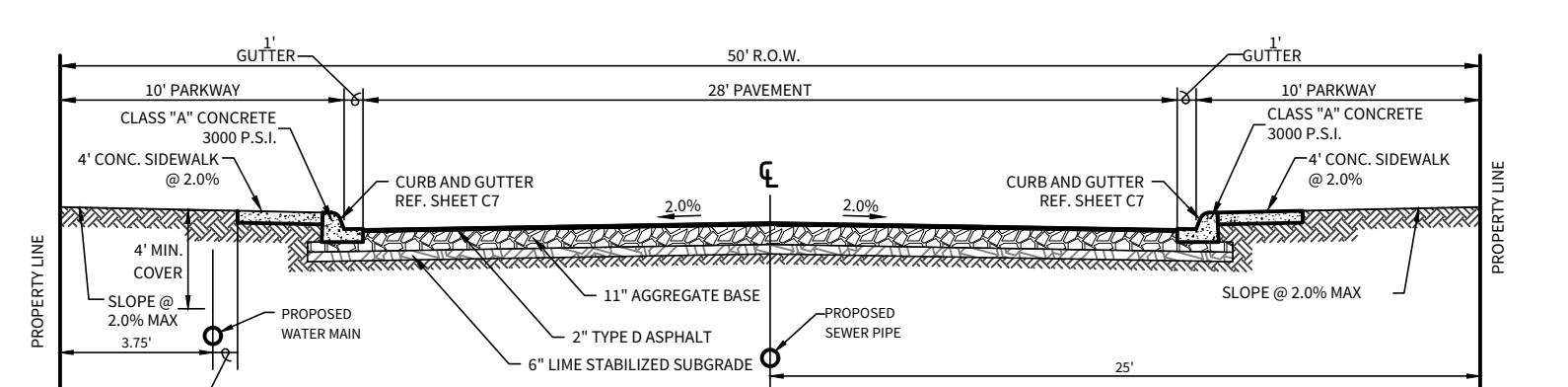
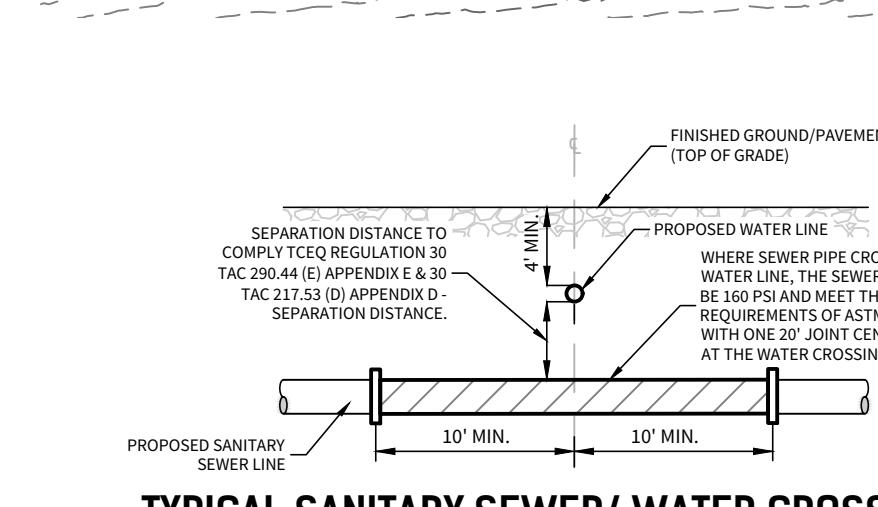
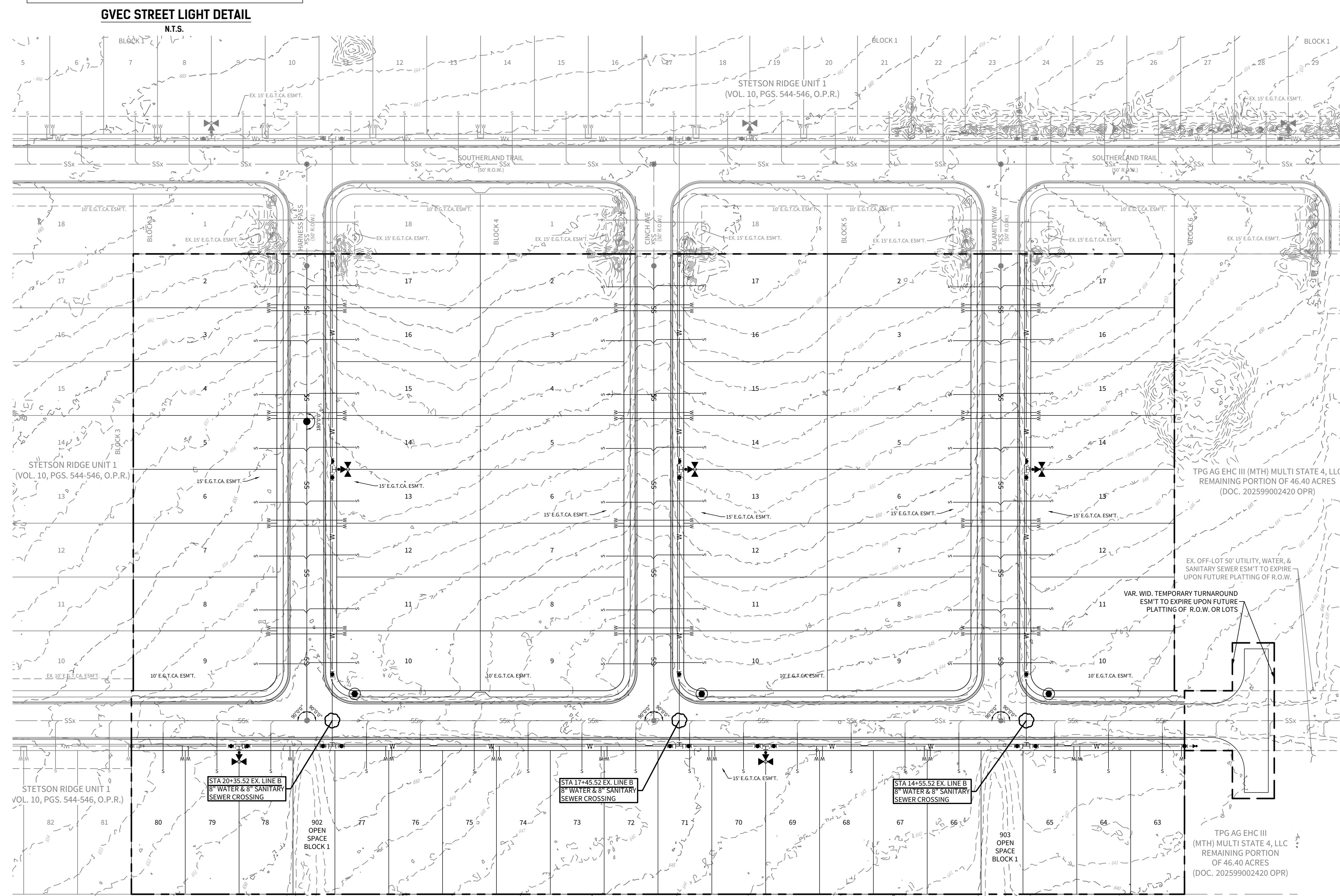
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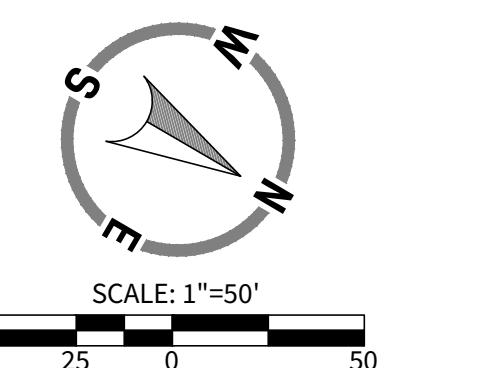
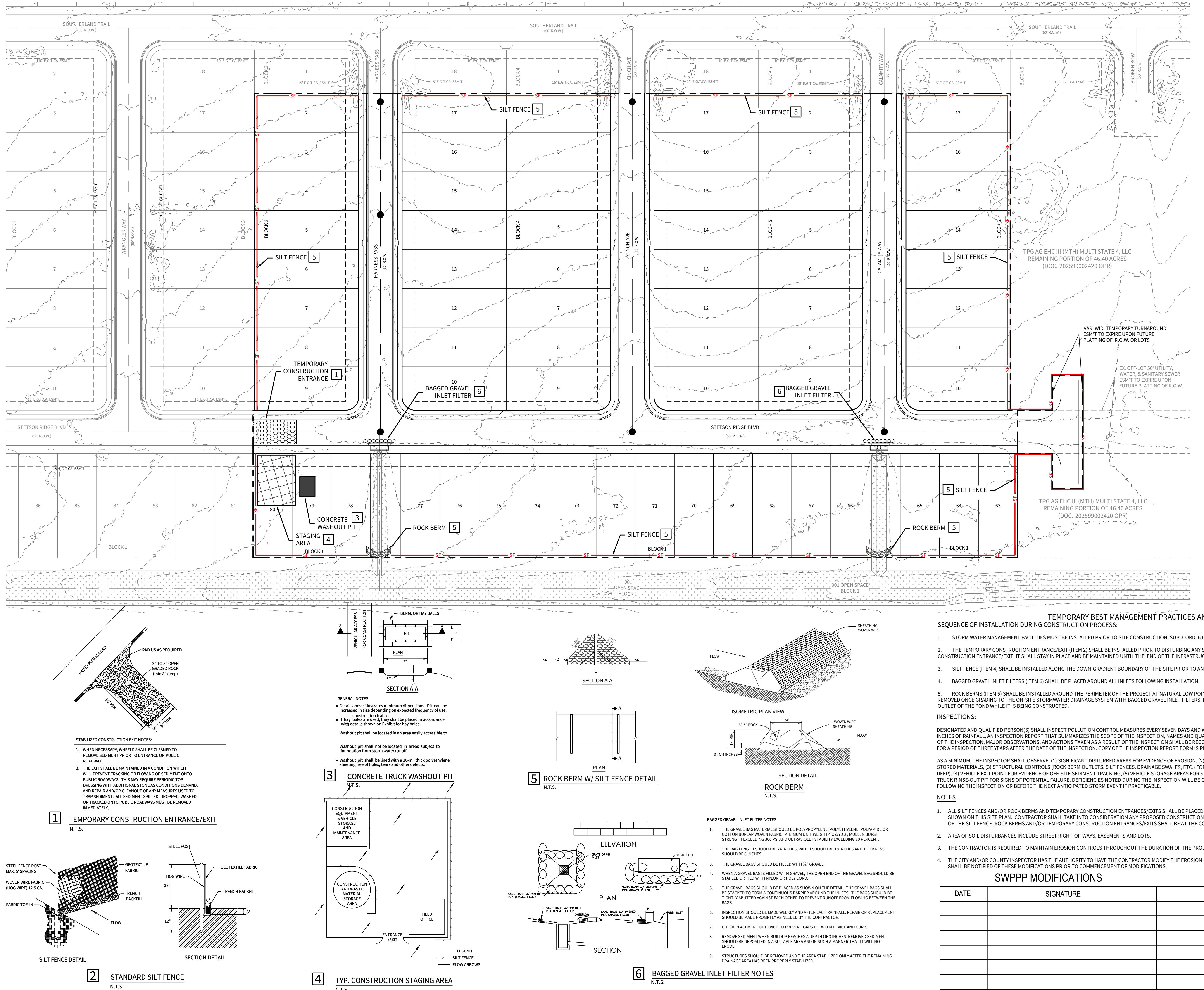


SEWER/WATER LINE CROSSINGS	
LINE	STATION
"EX. B"	14+55.52
"EX. B"	17+45.52
"EX. B"	20+35.52

OWNER/DEVELOPER:
MERITAGE HOMES OF TEXAS, L.L.C.
CONTACT PERSON: TONDA ALEXANDER
2722 WEST BITTERS ROAD, SUITE 200
SAN ANTONIO, TX 78248
TEL: (210) 298-4294

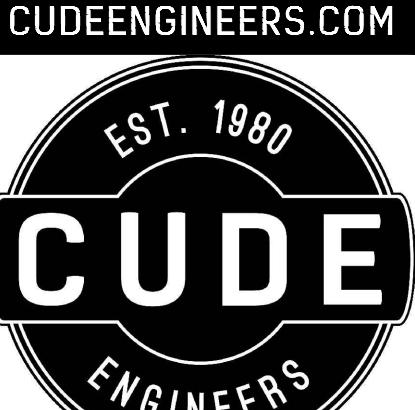
CIVIL ENGINEER:
M.W. CUDE ENGINEERS, L.L.C.
CONTACT PERSON: XAVIER VASQUEZ
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TX 78231
TEL: (210) 681-2951
FAX: (210) 523-7112





LEGEND

- OVERALL UNIT BOUNDARY
- PROPOSED LOT LINE
- PROPOSED RIGHT OF WAY
- E.G.T.C.A. EASEMENT
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- BMP ITEM NUMBER
- PROPOSED TEMPORARY CONSTRUCTION ENTRANCE/EXIT
- PROPOSED ROCK BERM
- PROPOSED SILT FENCE
- STAGING AREA
- CONCRETE WASHOUT PIT



4122 Pond Hill Road, Suite 101
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STETSON RIDGE UNIT 2

ONSITE STORM WATER POLLUTION PREVENTION PLAN

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