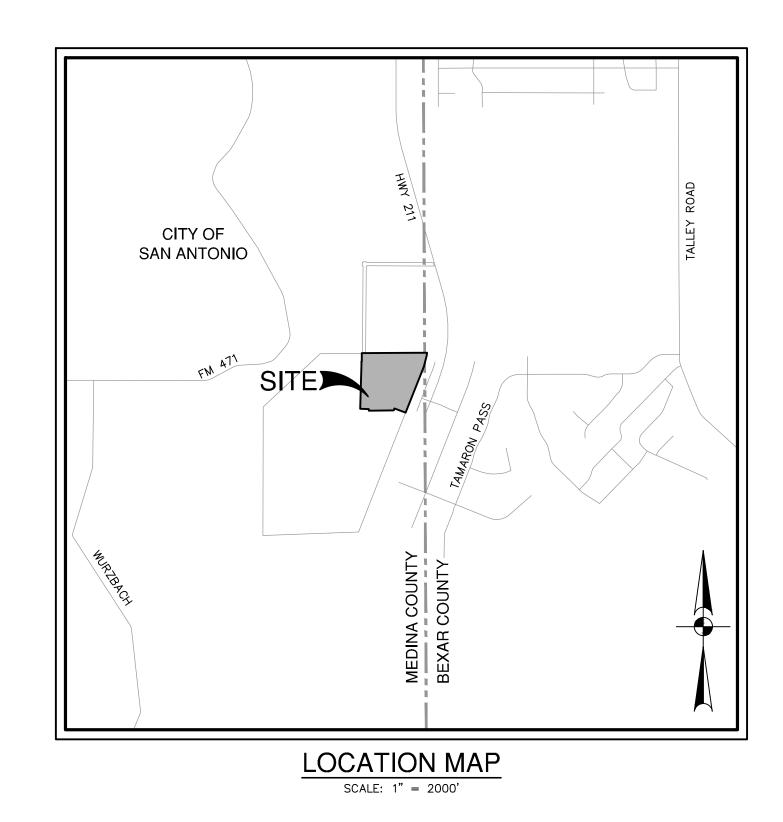
TALLYHO UNIT-2

MEDINA COUNTY, TEXAS

CIVIL CONSTRUCTION PLANS

Sheet List Table

C1.01 OVERALL DRAIN "EA" PL	T AINAGE PLAN (ULTIMATE DEVELOPMENT) AINAGE PLAN (ULTIMATE DEVELOPMENT) LAN & PROFILE (STA. 1+09.43 TO END) LAN & PROFILE (STA. 1+08.00 TO END) LAN & PROFILE (STA. 1+00.00 TO END)
C1.00 OVERALL DRA C1.01 OVERALL DRA C1.02 DRAIN "EA" PI	AINAGE PLAN (ULTIMATE DEVELOPMENT) AINAGE PLAN (ULTIMATE DEVELOPMENT) LAN & PROFILE (STA. 1+09.43 TO END) LAN & PROFILE (STA. 1+08.00 TO END)
C1.01 OVERALL DRA C1.02 DRAIN "EA" PI	AINAGE PLAN (ULTIMATE DEVELOPMENT) LAN & PROFILE (STA. 1+09.43 TO END) LAN & PROFILE (STA. 1+08.00 TO END)
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	AN & PROFILE (STA. 1+08.00 TO END)
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C1.03 DRAIN "EB" PI	AN & PROFILE (STA 1+00 00 TO END)
C1.04 DRAIN "E3" PL	AN GITTOTILE (GTA. 1+00.00 TO LIND)
C1.05 DRAIN "F" PLA	N & PROFILE (STA. 1+05.05 TO END)
C1.06 DRAIN "G" PLA	AN & PROFILE (STA. 1+05.00 TO END)
C1.07 DRAIN "H" PLA	AN & PROFILE (STA. 1+05.00 TO END)
C1.08 DRAIN "O1" PI	AN & PROFILE (STA. 1+14.00 TO 5+20.00)
C1.09 DRAIN "O1" PI	AN & PROFILE (STA. 5+20.00 TO 9+40.00)
C1.10 DRAIN "O1" PI	AN & PROFILE (STA. 9+40.00 TO 13+40.00)
C1.11 DRAIN "O1" PI	AN & PROFILE (STA. 13+40.00 TO END)
C1.12 DRAINAGE DE	TAILS
C1.13 DRAINAGE DE	TAILS
C1.14 DRAINAGE DE	TAILS
C2.00 BAROSSA PE	AK PLAN & PROFILE (STA. 20+59.29 TO END)
C2.01 GROFF PEAK	PLAN & PROFILE (STA. 1+16.89 TO END)
C2.02 COLOSSAL CI	LIFF PLAN & PROFILE (STA. 1+24.71 TO END)
C2.03 SILVERROCK	PEAK PLAN & PROFILE (STA. 1+16.18 TO END)
C2.04 PEACEFUL PE	EAK PLAN & PROFILE (STA. 1+20.01 TO END)
C2.05 FOXTAIL CRA	G PLAN & PROFILE (STA. 1+15.00 TO END)
C2.06 STREET DETA	AILS
C2.07 STREET DETA	AILS
C2.08 STREET DETA	AILS
C3.00 OVERALL SIG	NAGE PLAN
C3.01 OVERALL SIG	NAGE PLAN
C3.02 OVERALL SIG	NAGE PLAN
C3.03 OVERALL SIG	NAGE DETAILS
C3.04 OVERALL SIG	NAGE DETAILS



PREPARED FOR:

JEN TEXAS 26 LLC 8023 VANTAGE DRIVE, STE 220 SAN ANTONIO, TX 78230

FEBRUARY 2024



Sheet Number Sheet Title OVERALL SANITARY SEWER PLAN C4.01 OVERALL SANITARY SEWER PLAN OVERALL SANITARY SEWER PLAN C4.02 SANITARY SEWER LINE "A" PLAN & PROFILE (STA. 61+37.12 TO END) C4.03 SANITARY SEWER LINE "B" PLAN & PROFILE (STA. 1+00.00 TO 9+00.00) C4.04 SANITARY SEWER LINE "B" PLAN & PROFILE (STA. 9+00.00 TO END) C4.05 SANITARY SEWER LINE "C" PLAN & PROFILE (STA. 1+00.00 TO END) C4.06 SANITARY SEWER LINE "D" PLAN & PROFILE (STA. 1+00.00 TO END) SANITARY SEWER LINE "F" PLAN & PROFILE (STA. 1+00.00 TO END) C4.08 SANITARY SEWER LINE "G" PLAN & PROFILE (STA. 1+00.00 TO END) C4.09 C4.10 OVERALL SANITARY SEWER DETAILS C4.11 OVERALL SANITARY SEWER NOTES C5.00 OVERALL WATER DISTRIBUTION PLAN OVERALL WATER DISTRIBUTION PLAN OVERALL WATER DISTRIBUTION PLAN C5.02 C5.03 OVERALL WATER DISTRIBUTION PLAN C5.04 OVERALL WATER DISTRIBUTION DETAILS C5.05 OVERALL WATER DISTRIBUTION NOTES C6.00 OVERALL UTILITY PLAN OVERALL UTILITY PLAN C6.02 OVERALL UTILITY PLAN OVERALL UTILITY PLAN C6.03 C7.00 OVERALL GRADING PLAN C7.01 OVERALL GRADING PLAN STORM WATER POLLUTION PREVENTION PLAN C8.00 C8.01 STORM WATER POLLUTION PREVENTION PLAN

STORM WATER POLLUTION PREVENTION PLAN

STORM WATER POLLUTION PREVENTION PLAN

STORM WATER POLLUTION PREVENTION DETAILS

Sheet List Table



TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

WATER (SAWS PRESSURE ZONE 1170)

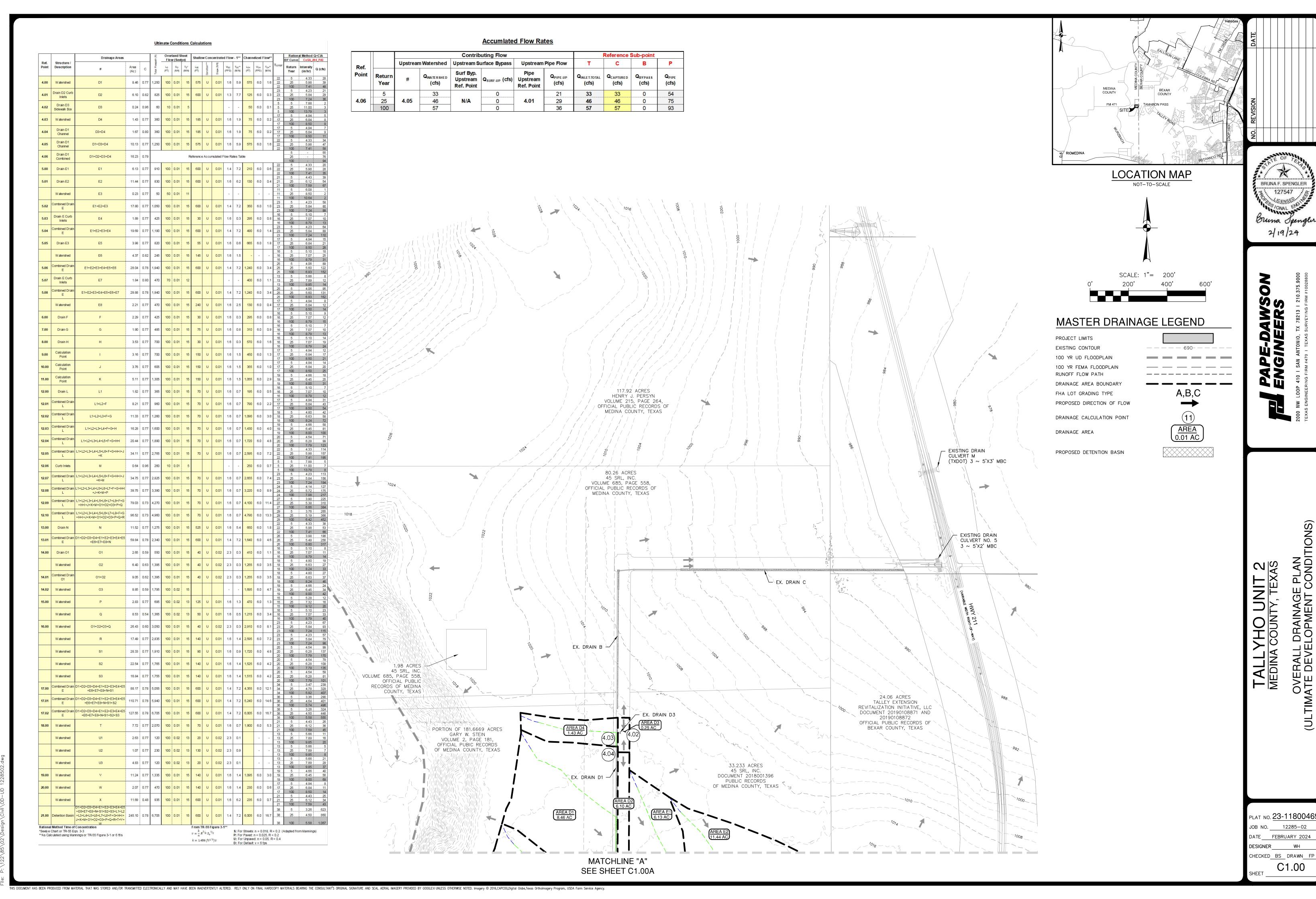
C8.02

C8.03

C8.04

DEVELOPER'S NAME: JEN TEXAS 26, LLC _____STATE: <u>TEXAS</u> ZIP: <u>78230</u> SAWS BLOCK MAP# 060594 TOTAL EDU'S 124 TOTAL ACREAGE 33.50 2939 LF-12" PVC
TOTAL LINEAR FOOTAGE OF PIPE: 4480 LF-8" PVC PLAT NO. 23-1180046

SEWER (MEDIO CREEK) DEVELOPER'S NAME: JEN TEXAS 26, LLC ADDRESS: 8023 VANTAGE DRIVE, STE. 220 SAWS BLOCK MAP#<u>060594</u> TOTAL EDU'S<u>117</u> TOTAL ACREAGE <u>33.50</u> TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469



OVERALL DRAINAGE PLAN TIMATE DEVELOPMENT CONDITIONS)

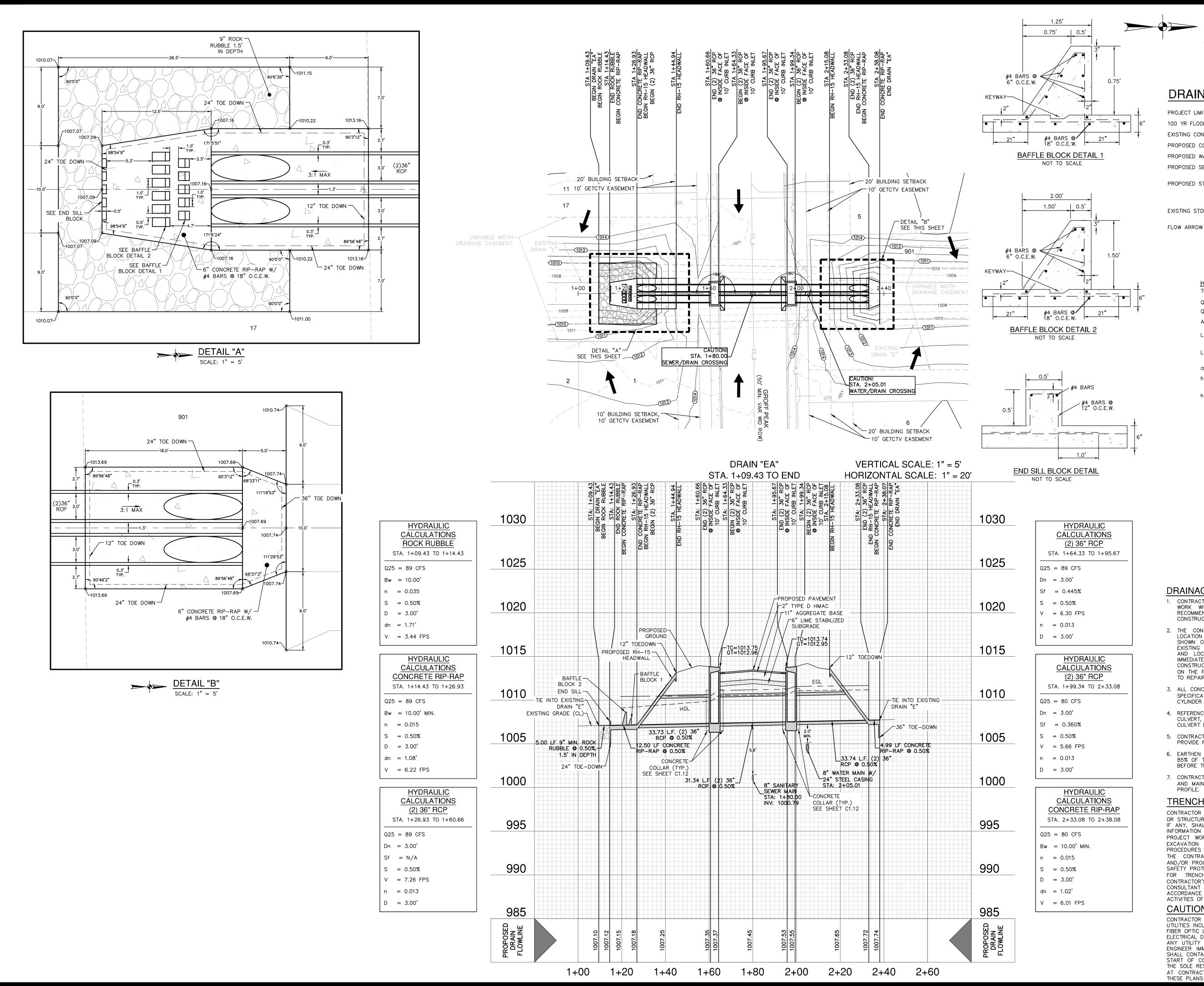




TALLYHO UNIT 2 MEDINA COUNTY, TEXAS

OVERALL DRAINAGE PLAN (ULTIMATE DEVELOPMENT CONDITIONS)

PLAT NO. 23-1180046 JOB NO. 12285-02 DESIGNER CHECKED BS DRAWN FP





PROPOSED WATER PROPOSED SEWER PROPOSED STORM DRAIN EXISTING STORM DRAIN

> HYDRAULIC CALCULATIONS-DRAIN "EA" TOTAL $Q_{25} = 10.0$ CFS (5 CFS EACH INLET)

 $Q_{25} = 5 \text{ CFS}$

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

A = L(0.52), h = 0.52, g = 32.2, c = 0.70

 $L = \frac{3.575}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 2.37 FT USE 1 ~ 10 FT CURB INLET EACH SIDE

CHECK WITH WEIR FORMULA $h = \left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{5}{(3.087) (10)}\right)^{2/3} = 0.30 \text{ FT}.$

h = 0.30 < 0.79 OK

DRAINAGE & GRADING NOTES:

- 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
- 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- 3. ALL CONCRETE FOR TXDOT DRAINAGE STRUCTURES SHALL MEET TXDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PS CYLINDER STRENGTH IN 28 DAYS.
- 4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BO CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
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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 /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/OF CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM II ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. CAUTION!!

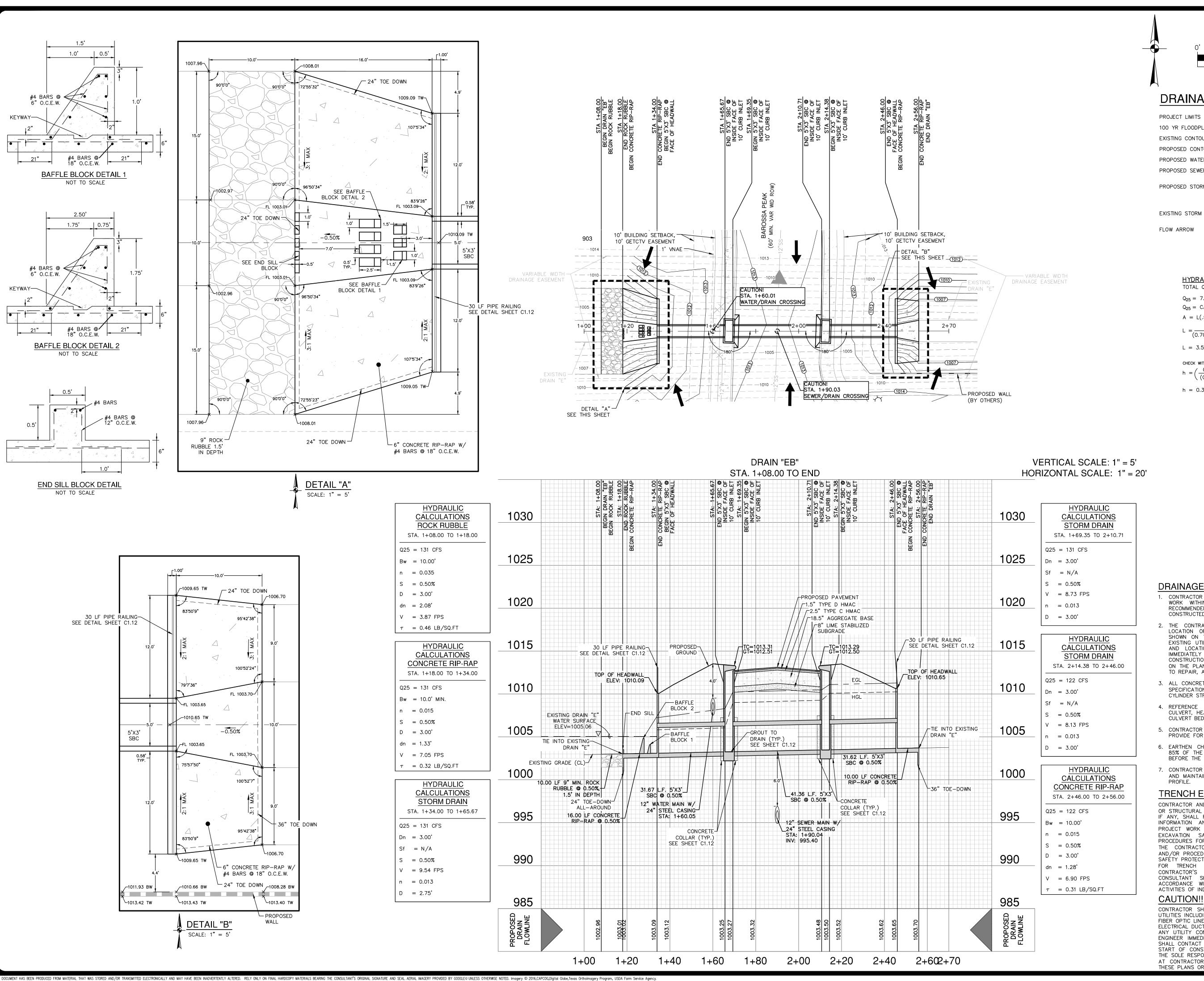
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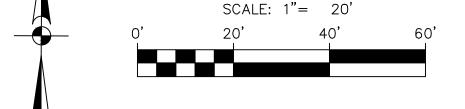
LAT NO. 23-11800469 JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER

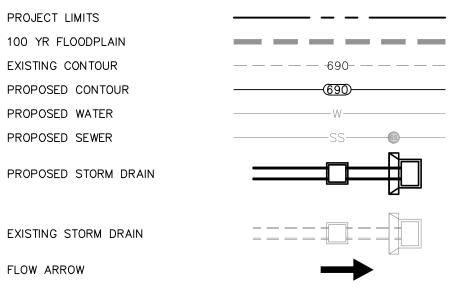
HECKED BS DRAWN FP C1.02

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.

BRUNA F. SPENGLER







HYDRAULIC CALCULATIONS-DRAIN "EB" TOTAL $Q_{25} = 15.0$ CFS (7.5 CFS EACH INLET)

 $Q_{25} = 7.5 \text{ CFS}$

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

A = L(.52), h = 0.52, g = 32.2, c = 0.70

 $L = \frac{7.5 \text{ s. s}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 3.56 FT USE 1 \sim 10 FT CURB INLET EACH SIDE

CHECK WITH WEIR FORMULA

h = $\left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{7.5}{(3.087)(10)}\right)^{2/3} = 0.39 \text{ FT.}$

h = 0.39 < 0.79 OK

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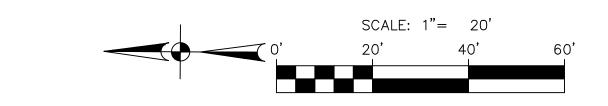
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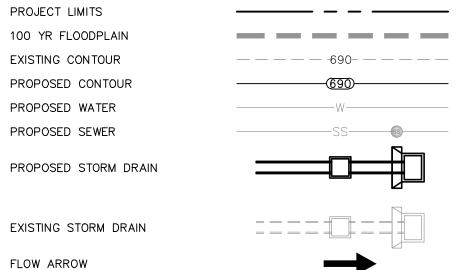
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LAT NO. 23-11800469 JOB NO. 12285-02 DESIGNER HECKED BS DRAWN FP

BRUNA F. SPENGLER







PAPE-DAWSON ENGINEERS

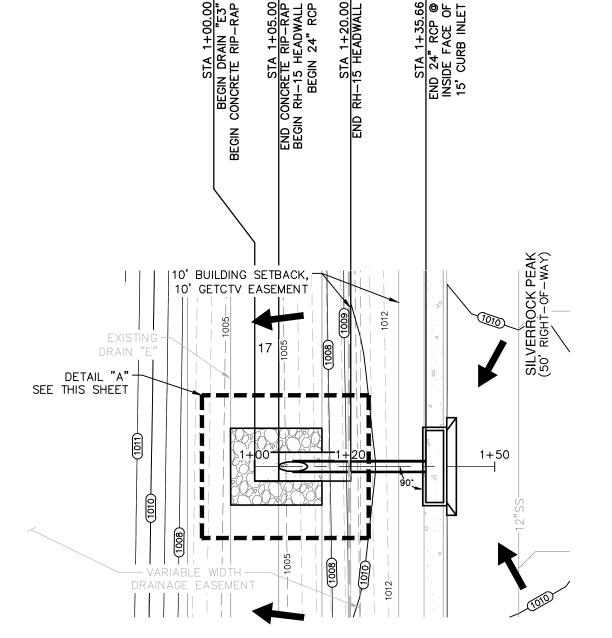
HYDRAULIC CALCULATIONS—DRAIN "E3" $Q_{25} = 21.0 \text{ CFS}$ $Q_{25} = CA\sqrt{2gh}$ (ORIFICE FLOW EQN.)

A = L(0.52), h = 0.52, g = 32.2, c = 0.70 $L = \frac{21.0 \text{ CFS}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 9.97 FT USE 1 ~ 15 FT CURB INLET

CHECK WITH WEIR FORMULA $h = \left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{21.0}{(3.087)(15)}\right)^{2/3} = 0.59 \text{ FT}.$

h = 0.59 < 0.79 OK



1030

990

DRAIN "E3" VERTICAL SCALE: 1" = 5' STA. 1+00.00 TO END HORIZONTAL SCALE: 1" = 20'

HYDRAULIC

CALCULATIONS

<u>24" RCP</u>

STA. 1+05.00 TO 1+35.66

Q25 = 21 CFS

Dn = 1.92'

Sf = N/A

S = 1.04%V = 6.81 FPS

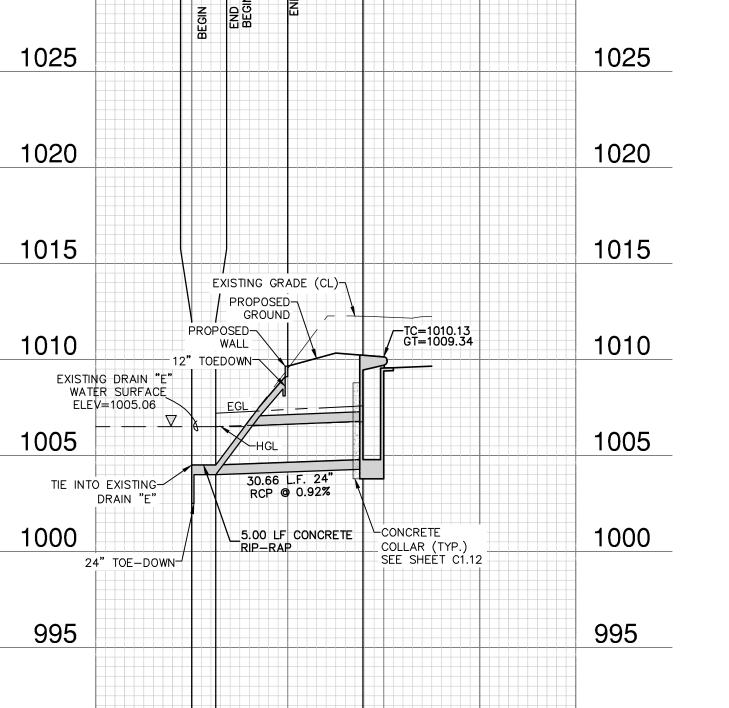
n = 0.013

D = 2.00'

1030

990

985



1+20

1+40

1+60

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PLAT NO. 23-11800469 JOB NO. 12285-02 DESIGNER

HECKED BS DRAWN FP

 $\frac{\text{DETAIL "A"}}{\text{SCALE: 1"} = 5'}$

25 SY - 9"-

ROCK RUBBLE 1.5' IN DEPTH 724" TOE DOWN

| 24" TOE DOWN /

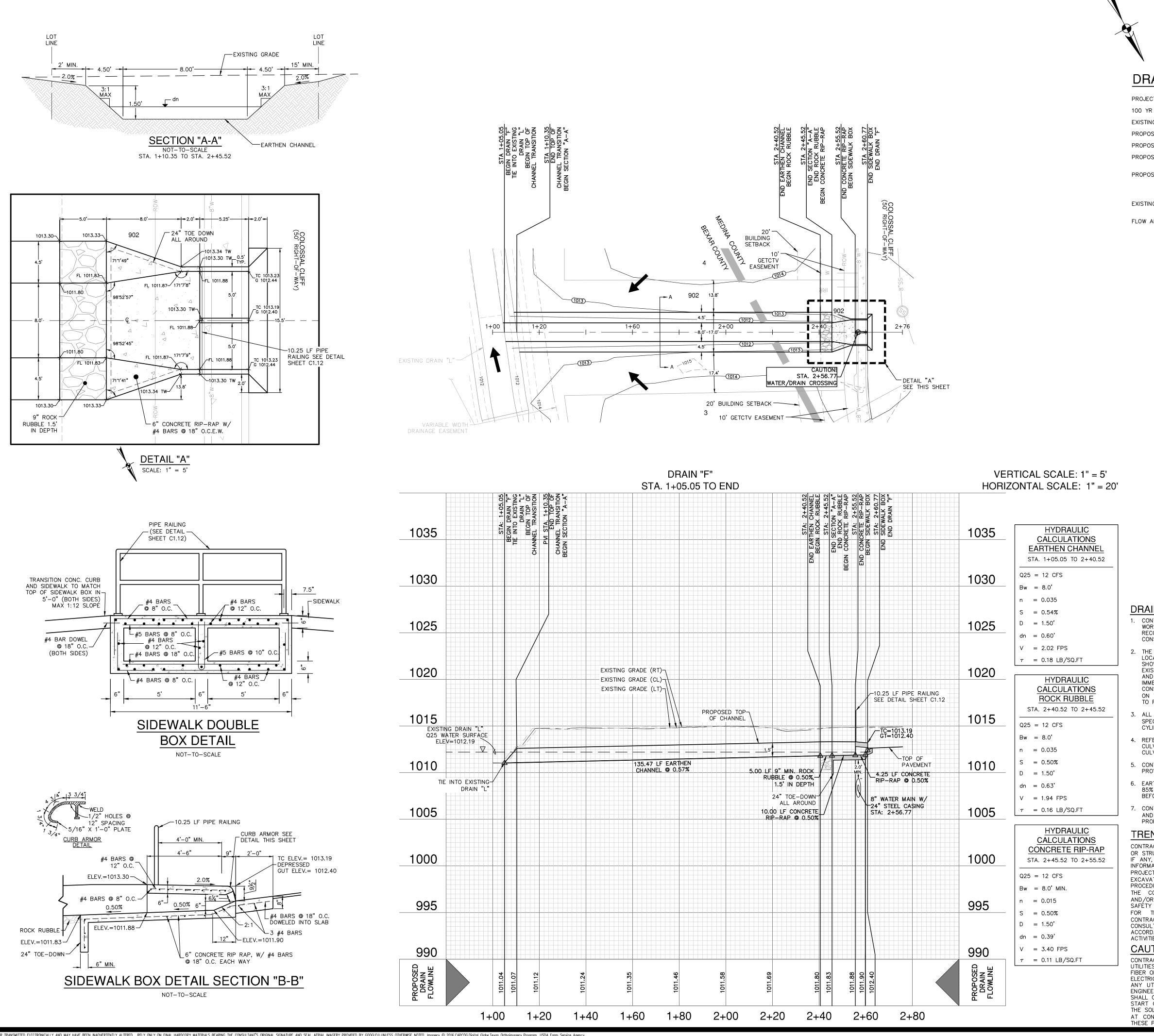
6" CONCRETE RIP-RAP W/

#4 BARS @ 18" O.C.E.W.

12" TOE DOWN —

PROPOSED WALL -(BY OTHERES)

5 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.



SCALE: 1"= 20'

BRUNA F. SPENGLER

DRAINAGE LEGEND

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

HYDRAULIC CALCULATIONS-DRAIN "F"

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A = L(0.52), h = 0.52, g = 32.2, c = 0.70 $L = \frac{12.0 \text{ CFS}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 5.70 FT USE 2 ~ 5 FT SIDEWALK BOXES

CHECK WITH WEIR FORMULA h = $\left(\frac{Q}{(CL)}\right)^{2/3}$ = $\left(\frac{12.0}{(3.087)(10)}\right)^{2/3}$ = 0.53 FT.

h = 0.53 < 0.79 OK

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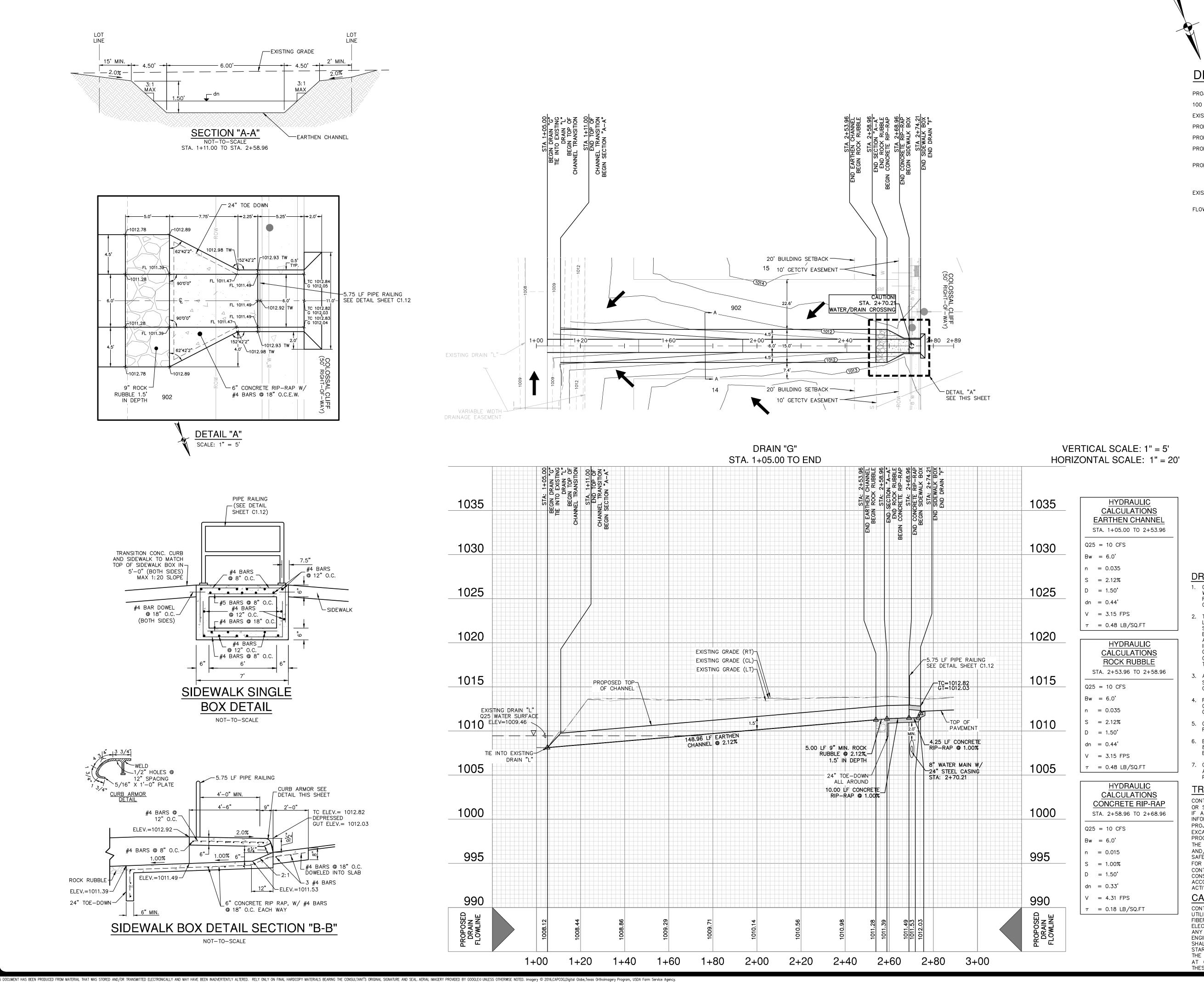
LAT NO. 23-11800469 JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER

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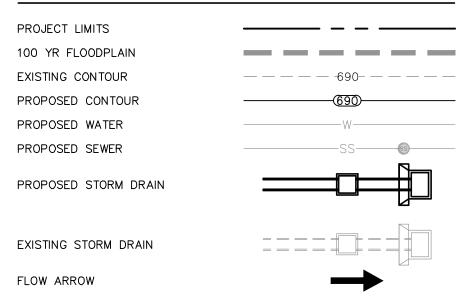
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SCALE: 1"= 20'

DRAINAGE LEGEND



HYDRAULIC CALCULATIONS-DRAIN "G" $Q_{25} = 10.0 \text{ CFS}$ $Q_{25} = CA\sqrt{2gh}$ (ORIFICE FLOW EQN.) A = L(0.52), h = 0.52, g = 32.2, c = 0.70

 $L = \frac{15.5 \cdot 15.5}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 4.75 FT USE 1 ~ 6 FT SIDEWALK BOX

CHECK WITH WEIR FORMULA

h = $\left(\frac{Q}{(CL)}\right)^{2/3}$ = $\left(\frac{10.0}{(3.087)(6)}\right)^{2/3}$ = 0.66 FT.

h = 0.66 < 0.79 OK

DRAINAGE & GRADING NOTES:

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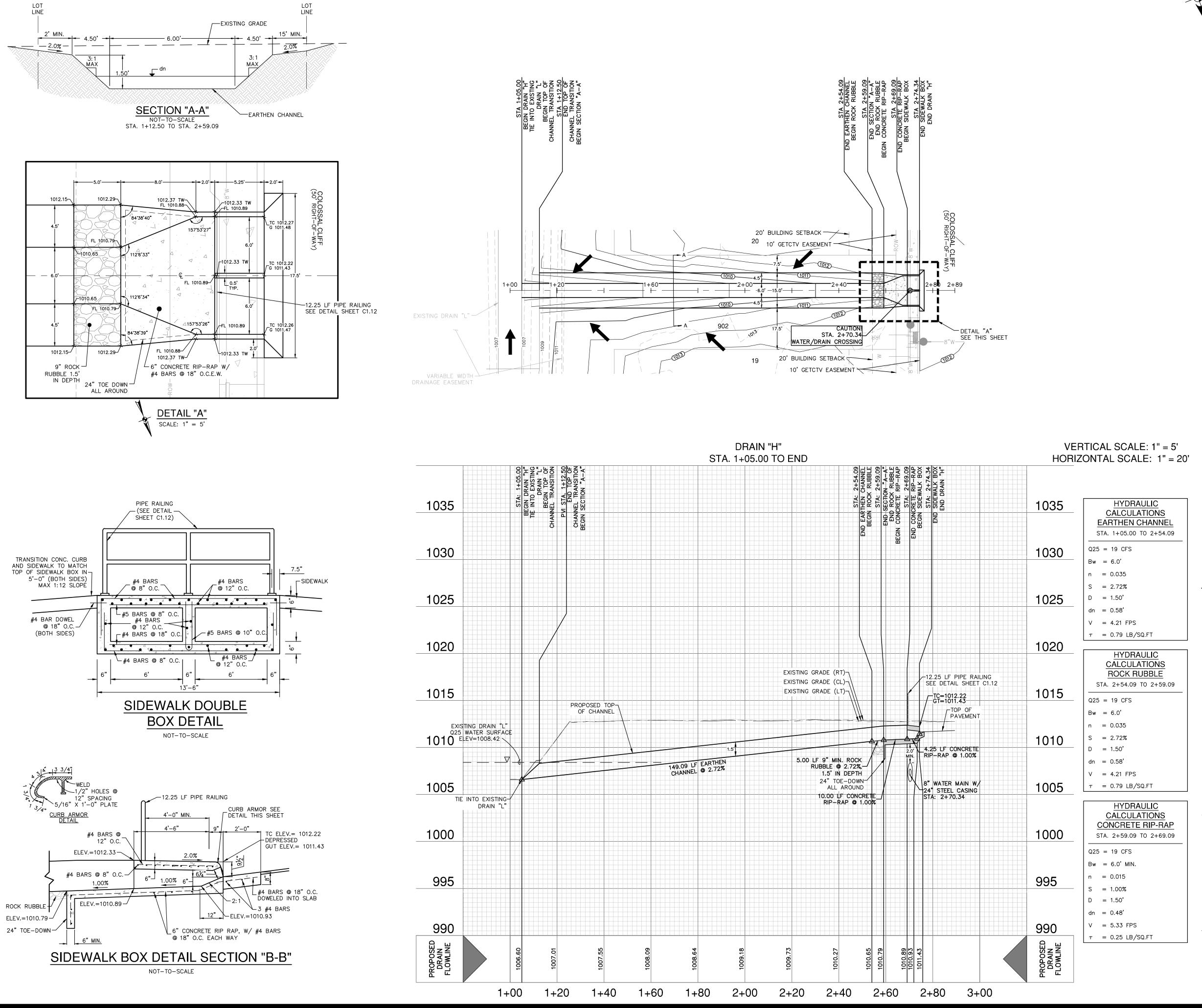
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LAT NO. 23-11800469 JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER

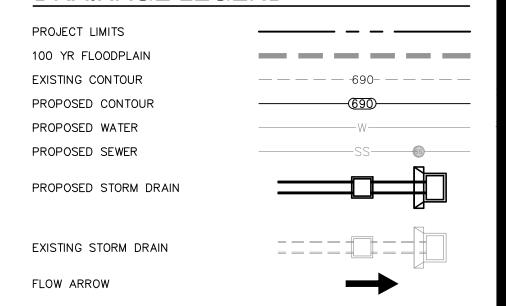
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BRUNA F. SPENGLER

HECKED BS DRAWN FP C1.06







HYDRAULIC CALCULATIONS-DRAIN "H" $Q_{25} = 19.0 \text{ CFS}$

 $Q_{25} = CA\sqrt{2gh}$ (ORIFICE FLOW EQN.) A = L(0.52), h = 0.52, g = 32.2, c = 0.70

 $L = \frac{13.0 \text{ s. s}}{(0.70) (0.52)\sqrt{2 (32.2) (0.52)}}$

L = 9.02 FT USE 2 ~ 6 FT SIDEWALK BOXES

CHECK WITH WEIR FORMULA h = $\left(\frac{Q}{(CL)}\right)^{2/3} = \left(\frac{19.0}{(3.087)(12)}\right)^{2/3} = 0.64 \text{ FT.}$

h = 0.64 < 0.79 OK

BRUNA F. SPENGLER

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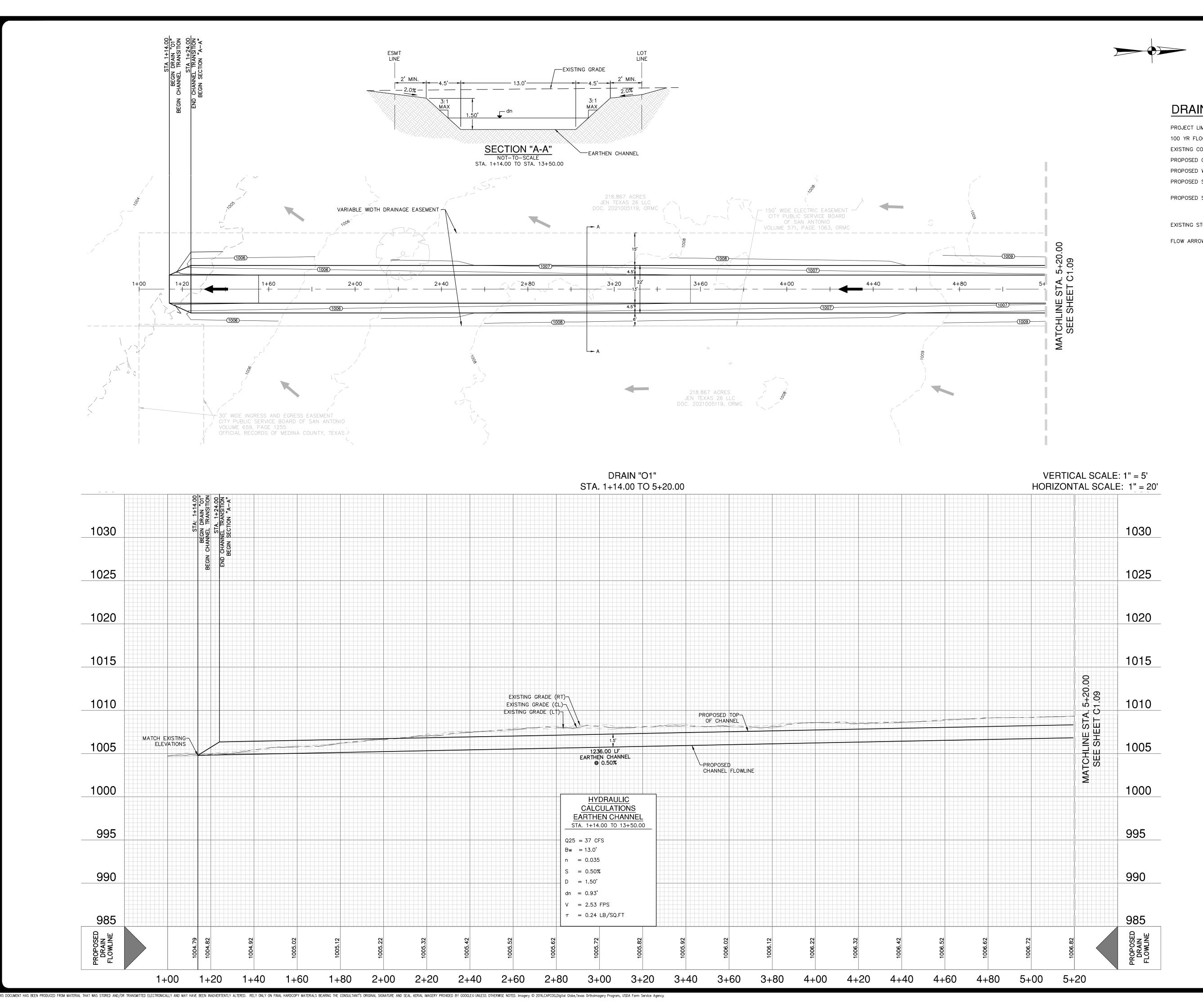
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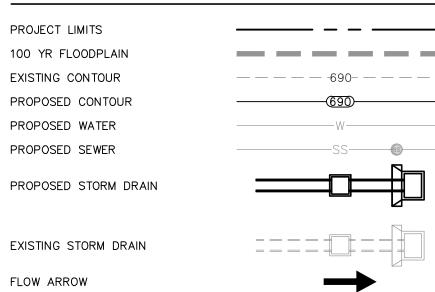
LAT NO. 23-11800469

JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER HECKED BS DRAWN FP

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Juna Spenglu 2/19/24

PAPE-DAWSOR
ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #100288

DRAINAGE & GRADING NOTES:

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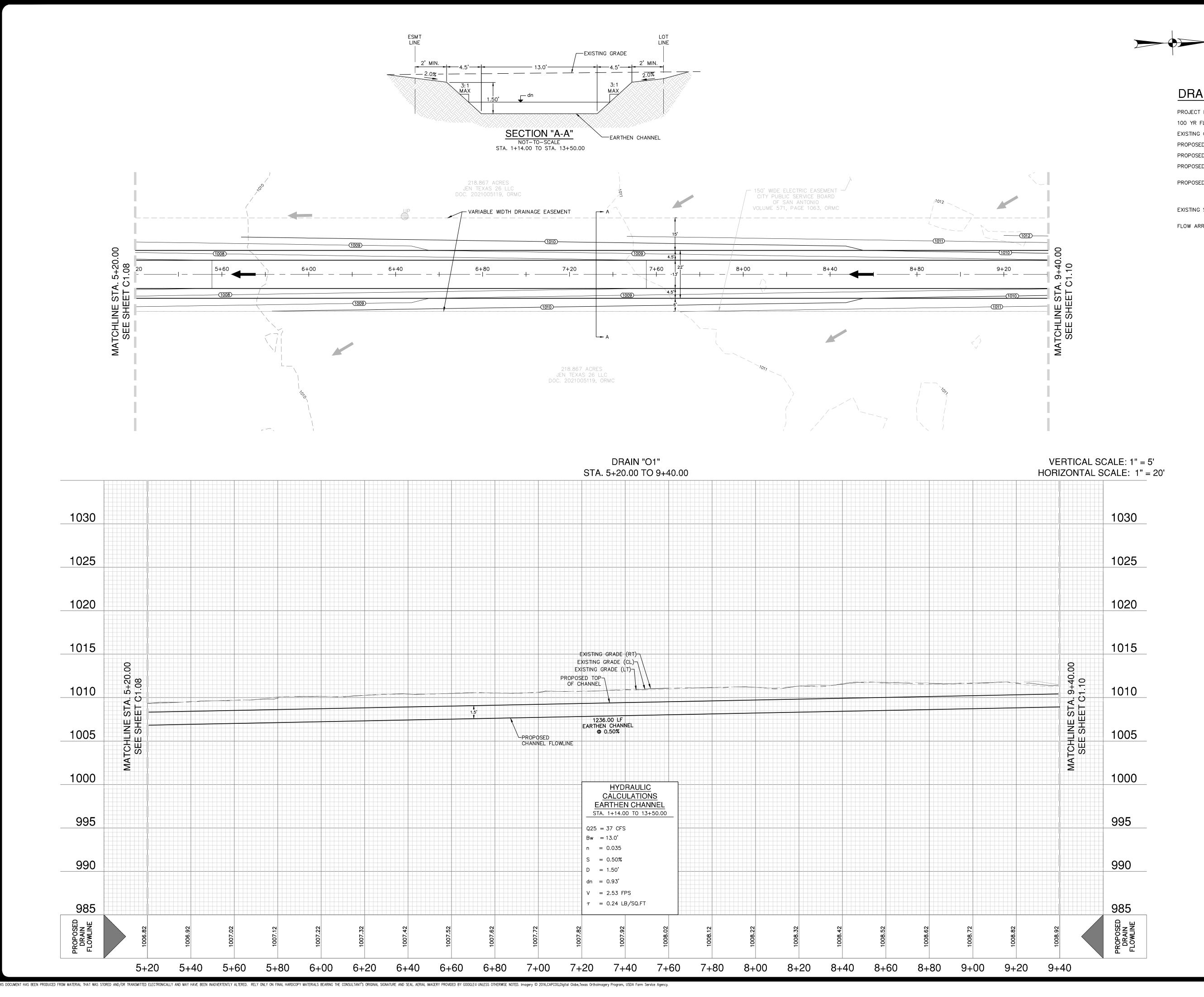
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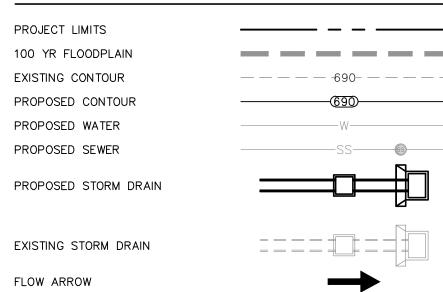
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JUNAL ENGLISH STUNA Spengle 2/19/24

ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028

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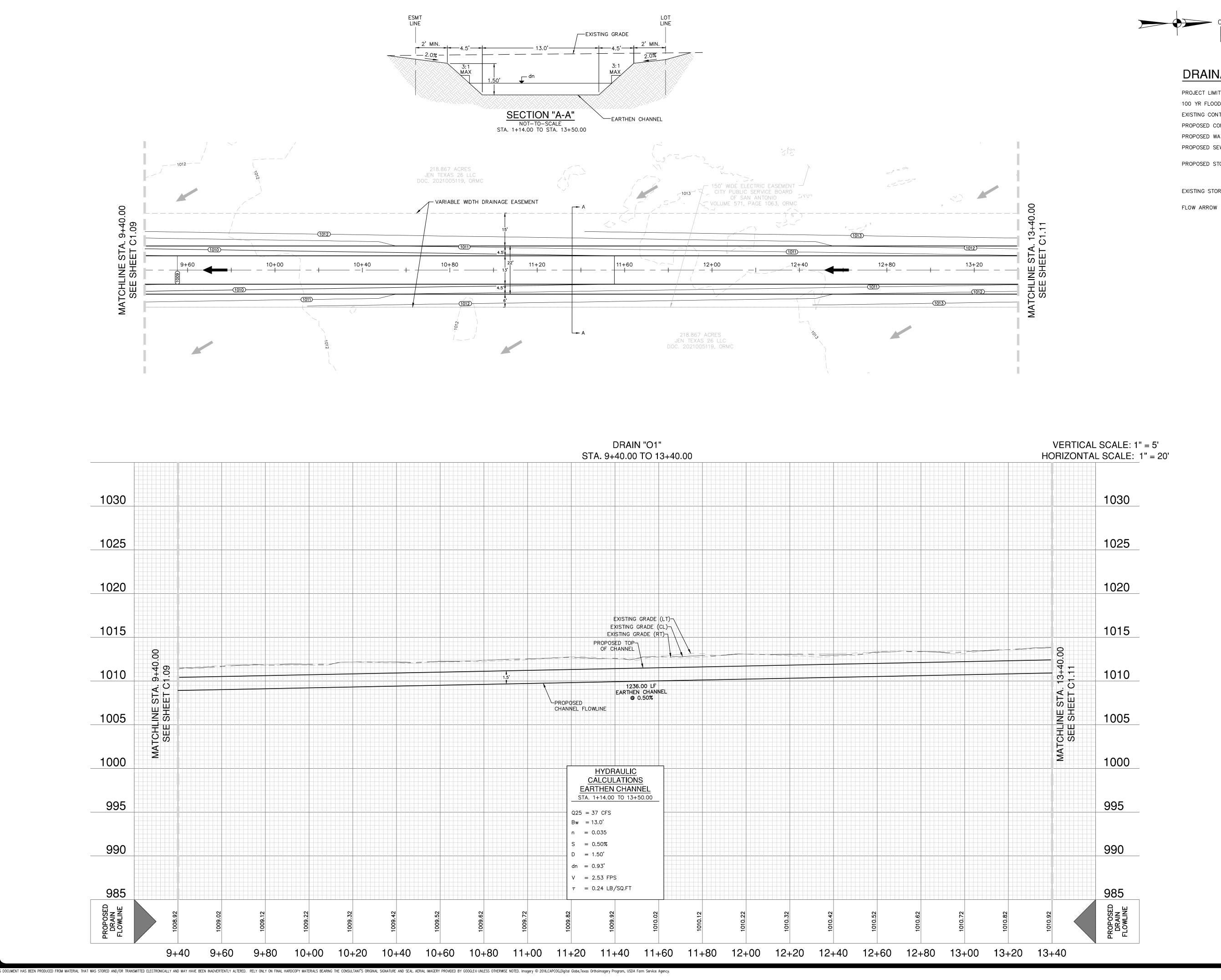
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STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES

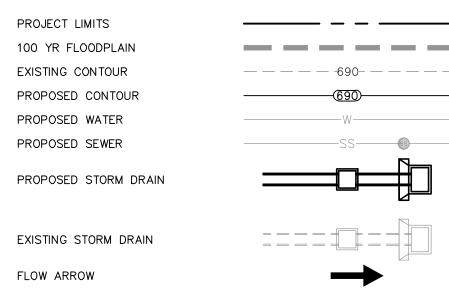
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January 24, 2024, 8:31 A









ROFILE +40.00)

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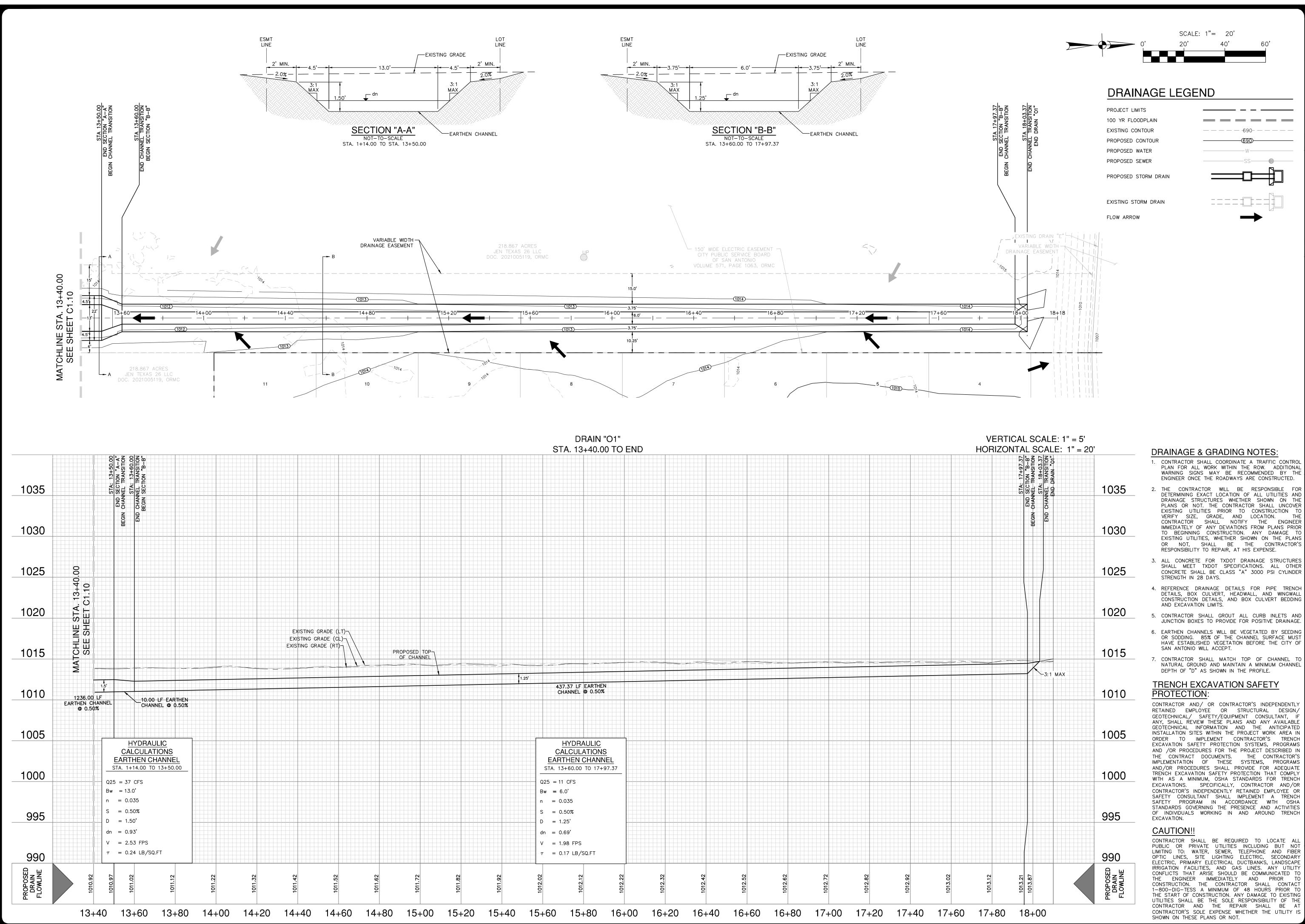
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PLAT NO. 23-11800469 JOB NO. 12285-02 DESIGNER CHECKED BS DRAWN FP



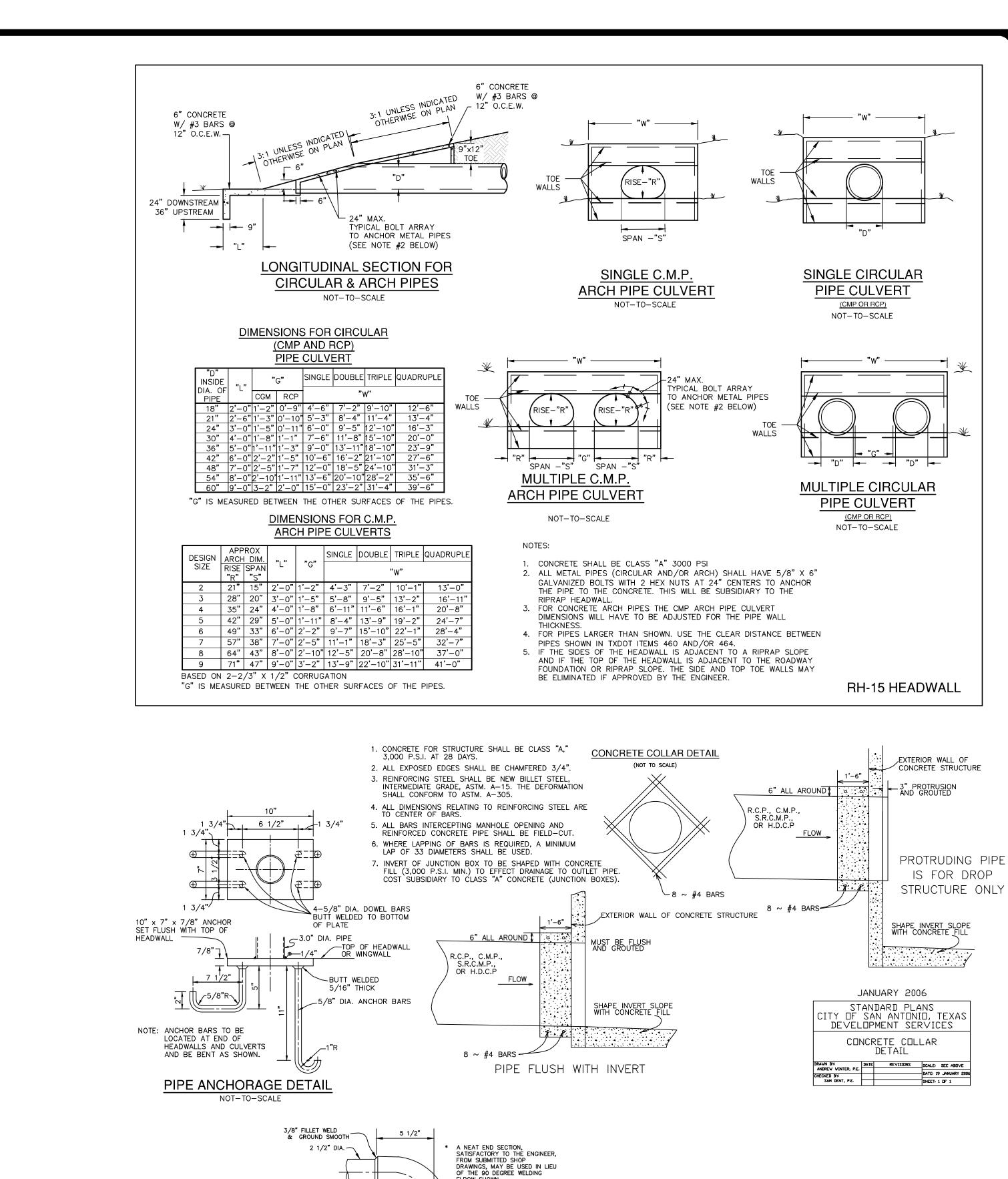
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PLAT NO. 23-11800469 JOB NO. 12285-02 DESIGNER

TALL

CHECKED BS DRAWN FP

BRUNA F. SPENGLER



YHO UNIT 2 A COUNTY, TEXAS TALL

8' - 0" MAXIMUM

NOTE: ALL PIPE SHALL BE PAINTED

WITH 1 COAT OF RED PRIMER AND

2 COATS OF ALUMINUM PAINT

BRUNA F. SPENGLER

PLAT NO. 23-11800469 OB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER

C1.12

CHECKED BS DRAWN FP

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CURB ARMOR DETAIL NOT-TO-SCALE

DETAIL OF 90

WELDING ELBOWS NOT-TO-SCALE

3 3/4"

WELD-

5/16"X1'-0" PLATE-

1 / 2" HOLES @ — 12" SPACING

3" DIA. DOUBLE – EXTRA STRONG STANDARD BLACK PIPE OR 4" DIA. STANDARD BLACK PIPE

8' - 0" MAXIMUM

_90° WELDING / ALL JOINTS WELDED _

ELBOWS / & GROUND SMOOTH

3" DIA. DOUBLE — EXTRA -STRONG BLACK STEEL POST OR-

4" DIA. BLACK STEEL PIPE

WORKS CONSTRUCTION.

_ 2½" DIA. f BLACK STEEL PIPE

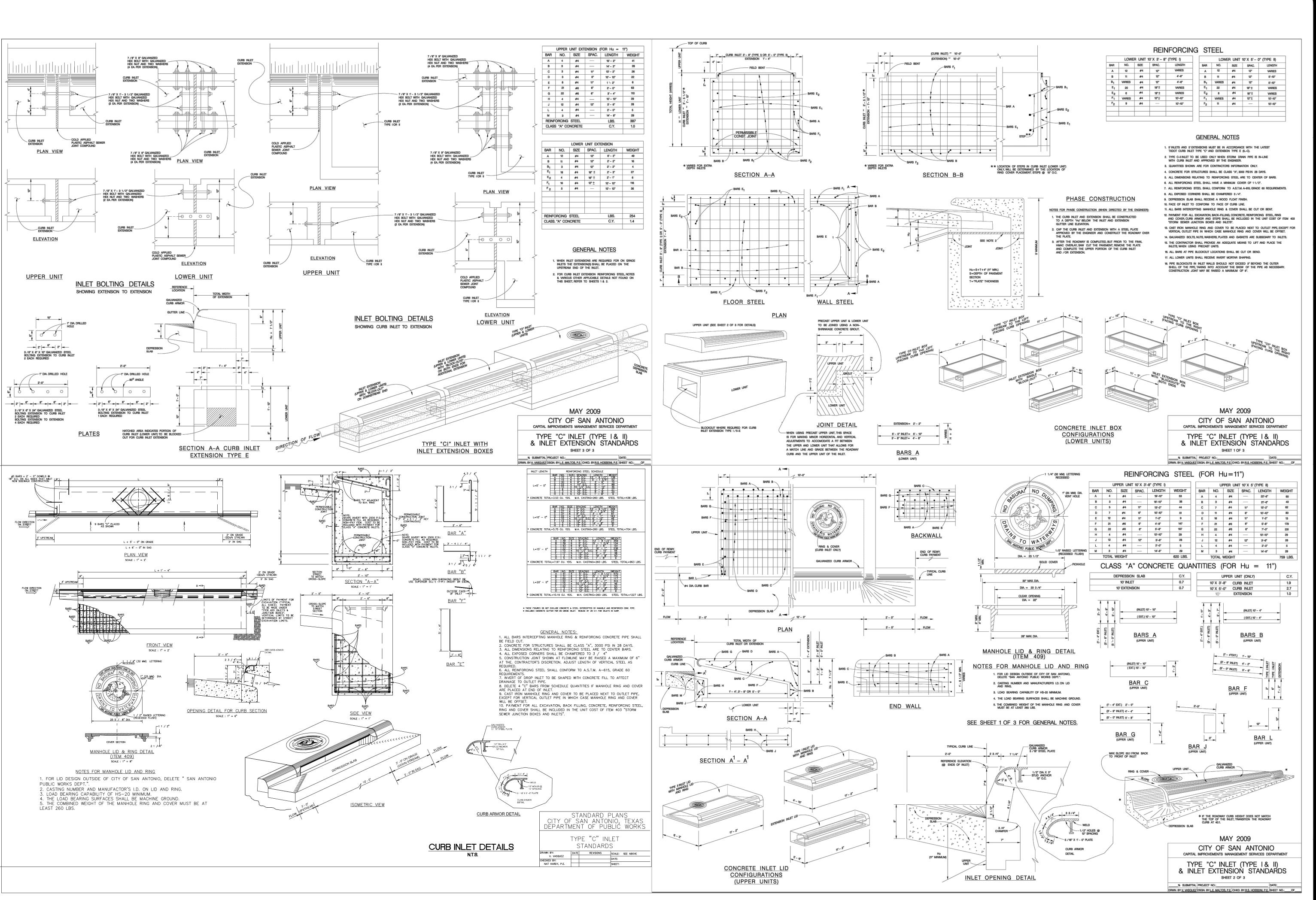
NOTE: ALL CONSTRUCTION OF HANDRAIL SHALL FOLLOW

PIPE RAILING DETAIL

NOT-TO-SCALE

THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR PUBLIC

3" DIA. 90 DEGREE ELBOW OR 4" DIA. 90 DEGREE ELBOW



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NO. REVISION DAT

BRUNA F. SPENGLER

127547

127547

Solonal ENGLER

2/19/24

PAPE-DAWSO

FILERS

2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.37

TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10

TALLYHO UNIT 2 MEDINA COUNTY, TEXAS

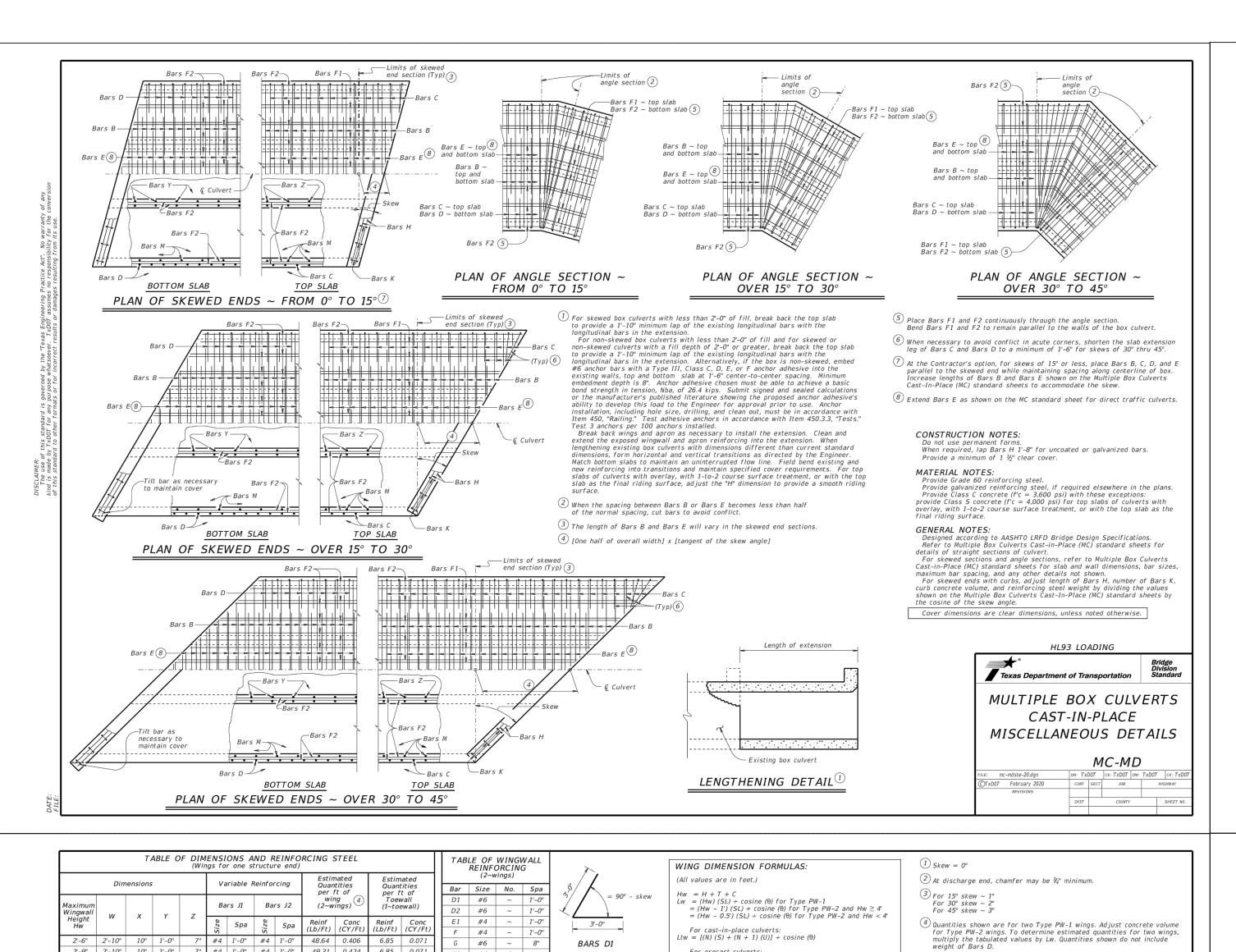
PLAT NO. 23-11800469

JOB NO. 12285-02

DATE FEBRUARY 2024

DESIGNER WH

CHECKED BS DRAWN FP



3'-0"

BARS D1

BARS J3 BARS V

3'-0" Extend Bars G

M2 - J3

SL:1 slope along this line.—

PARTIAL ELEVATION - PW-2

DETAILS FOR

NON-SKEWED BOX CULVERTS

TABLE OF TOEWALL

W - 4"

BARS J2

Field bend as needed

REINFORCING

Y + 8"

BARS J1

PARTIAL ELEVATION - PW-1

SECTION B-B

SECTION A-A

For cast-in-place culverts: $Ltw = [(N)(S) + (N + 1)(U)] \div cosine(\theta)$

For precast culverts: $Ltw = [(N) (2 U + S) + (N - 1) (0.5')] \div cosine (\theta)$

Total Wingwall Area (two wings \sim SF) = (2)(Hw)(Lw) for Type PW-1 = (2)(Hw)(Lw) - 6 SF for Type PW-2 and $Hw \ge 4^{\circ}$ = (2)(Hw)(Lw) - 1.5 SF for Type PW-2 and $Hw < 4^{\circ}$

Hw = Height of wingwall

Lw = Length of wingwall
Ltw = Culvert toewall length
N = Number of culvert spans

SL:1 = Channel slope ratio. (horizontal.

SECTION C-C - PW-2

Ltw Lw

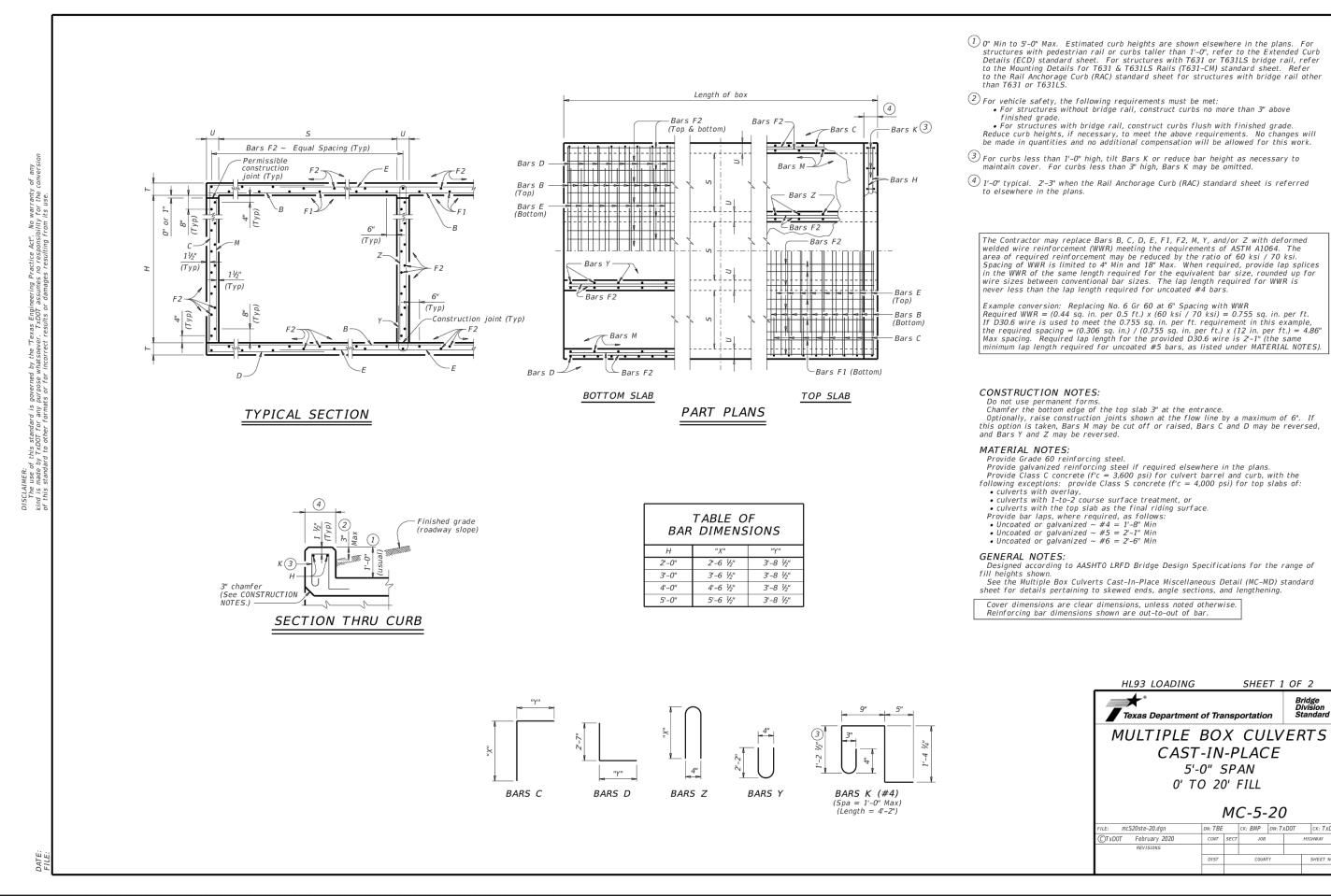
—Culvert skew

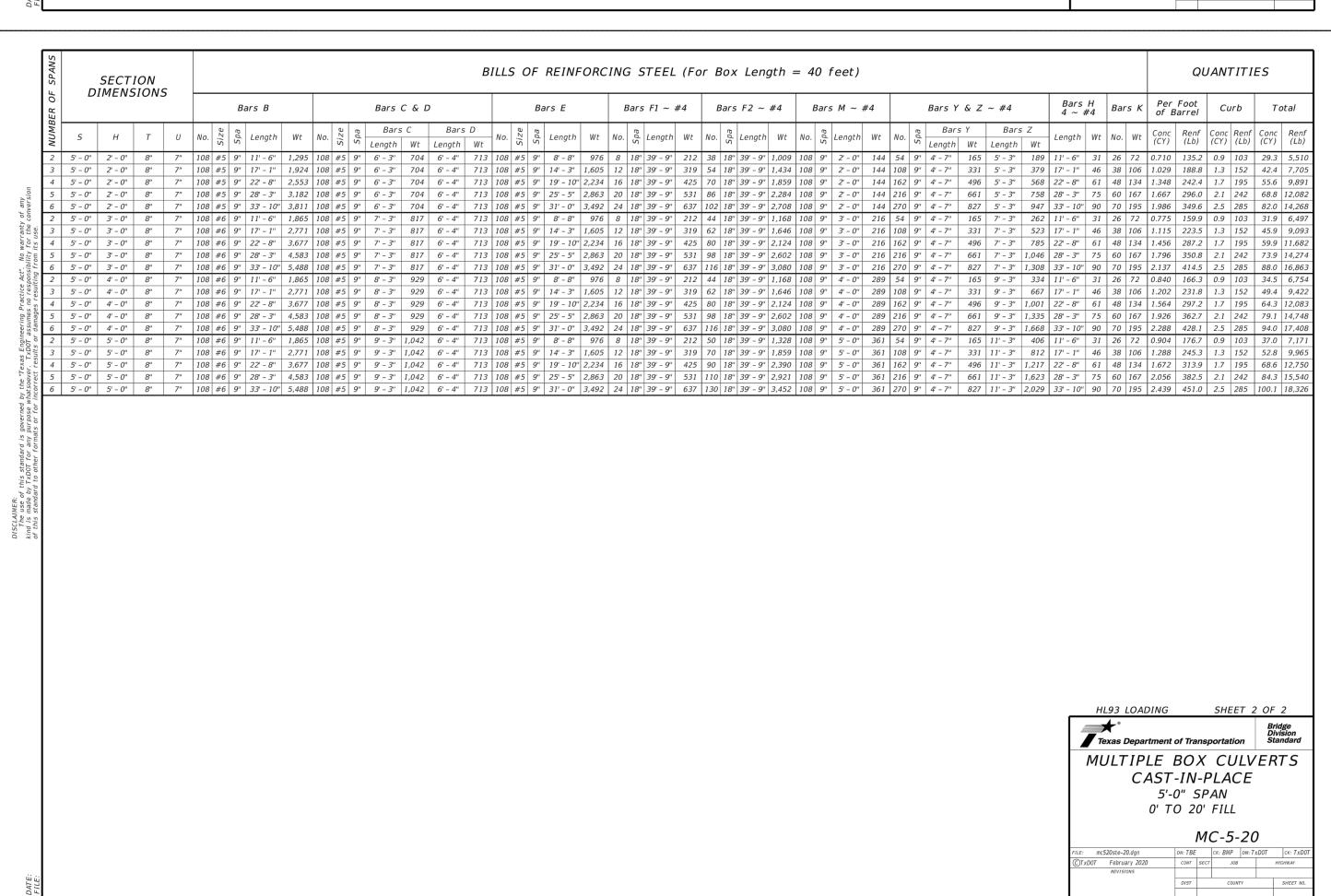
PLAN

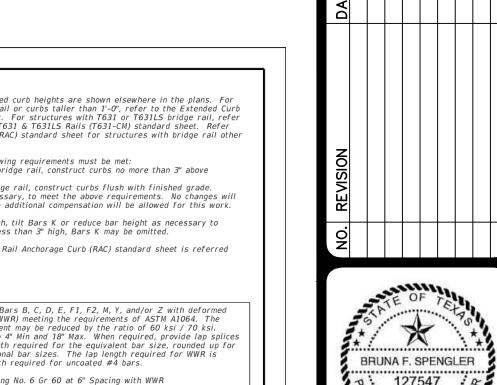
DETAILS FOR

SKEWED BOX CULVERTS

1 vertical, usual value is 2:1) $\theta = Culvert \ skew$ See applicable box culvert standard sheet for S, H, T, and U values.









UNIT 2 TY, TEXAS

PLAT NO. 23-1180046 12285-02 ATE FEBRUARY 2024 DESIGNER

CHECKED BS DRAWN FP C1.14

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.

 $\stackrel{\textstyle (5)}{}$ Provide weepholes for Hw = 5'-0" and greater. Fill around weepholes with coarse gravel.

8 Place Bars G as shown, equally spaced at 8" maximum. Provide at least

9 0" Min to 5'-0" Max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail or curbs taller than 1'-0, refer to the Extended Curb Details (ECD) standard sheet. For structures with T631 or T631LS bridge rail, refer to the Mounting Details for T631 & T631LS Rails (T631-CM) standard sheet. Refer to the Box Culvert Rail Mounting Details (RAC) standard sheet for structures with bridge rail other than T631 or T631LS.

For structures without bridge rail, construct curbs no more than 3" above finished grade.
 For structures with bridge rail, construct curbs flush with finished grade.

Reduce curb heights, if necessary, to meet the above requirements.

No changes will be made in quantities and no additional compensation will be allowed for this work.

Type PW-1 can be used for all applications and must be used if railing is to be mounted to the wingwall.

Type PW-2 can only be used for applications without

Provide Class C concrete (f'c=3,600 psi).
Provide Grade 60 reinforcing steel.
Provide galvanized reinforing steel if required

GENERAL NOTES:
Designed in accordance with AASHTO LRFD Bridge
Design Specifications.
Depth of toewalls for wingwalls and culverts may be

reduced or eliminated when founded on solid rock, when

directed by the Engineer.

See Box Culvert Supplement (BCS) standard sheet for

wingwall type and additional dimensions and information. Quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for the Contractor's information only.

Cover dimensions are clear dimensions, unless noted otherwis

CONCRETE WINGWALLS

WITH PARALLEL WINGS FOR

BOX CULVERTS

TYPES PW-1 AND PW-2

Reinforcing dimensions are out-to-out of bars.

 $\stackrel{(11)}{1}$ 1'-0" typical. 2'-3" when the Box Culvert Rail Mounting Details (RAC)

6 Extend Bars E2 1'-6" minimum into the wingwall footing.

10 For vehicle safety, the following requirements must be met:

standard sheet is referred to elswhere in the plans.

DESIGNER NOTES:

elsewhere in the plans.

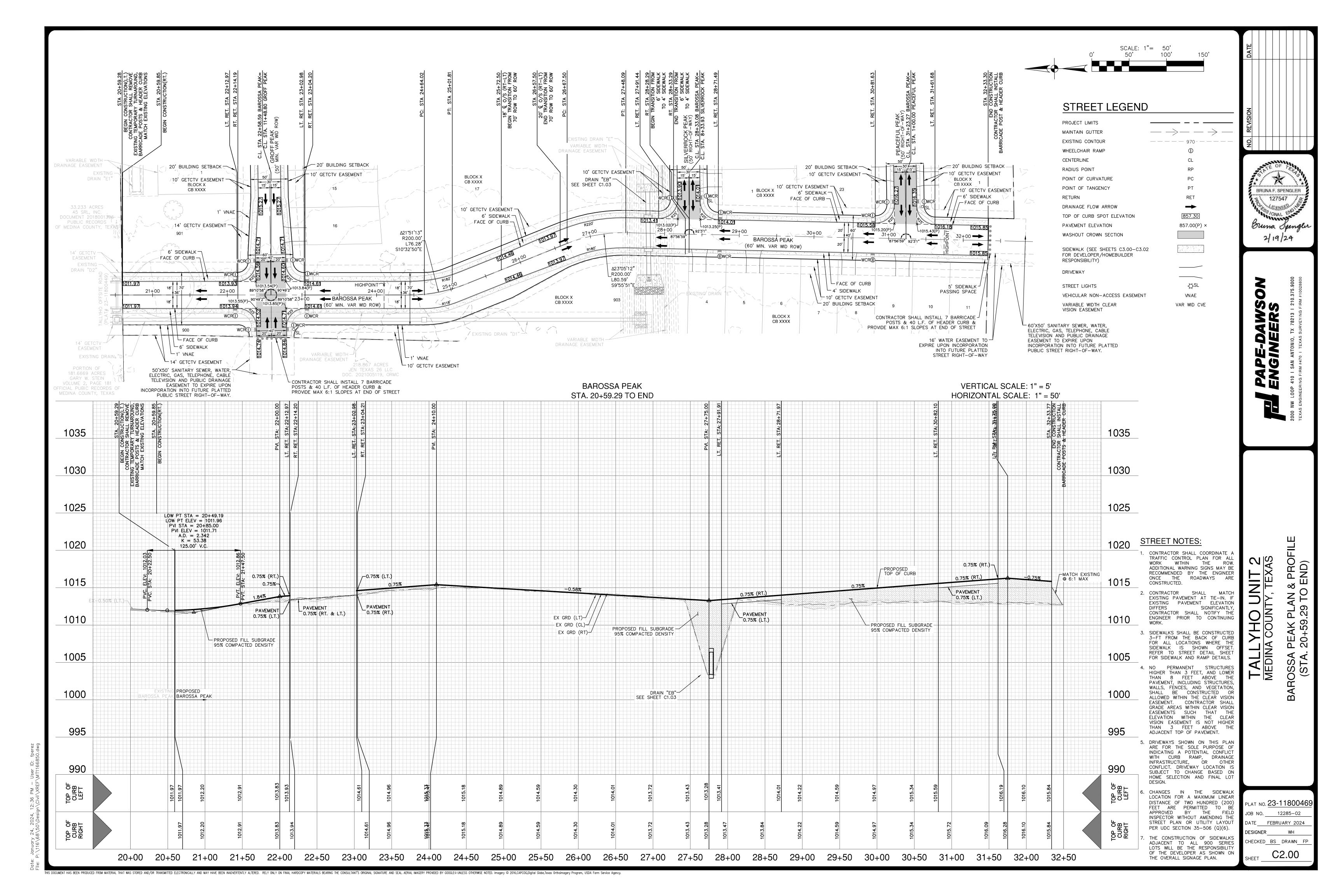
a railing mounted to the wingwall. MATERIAL NOTES:

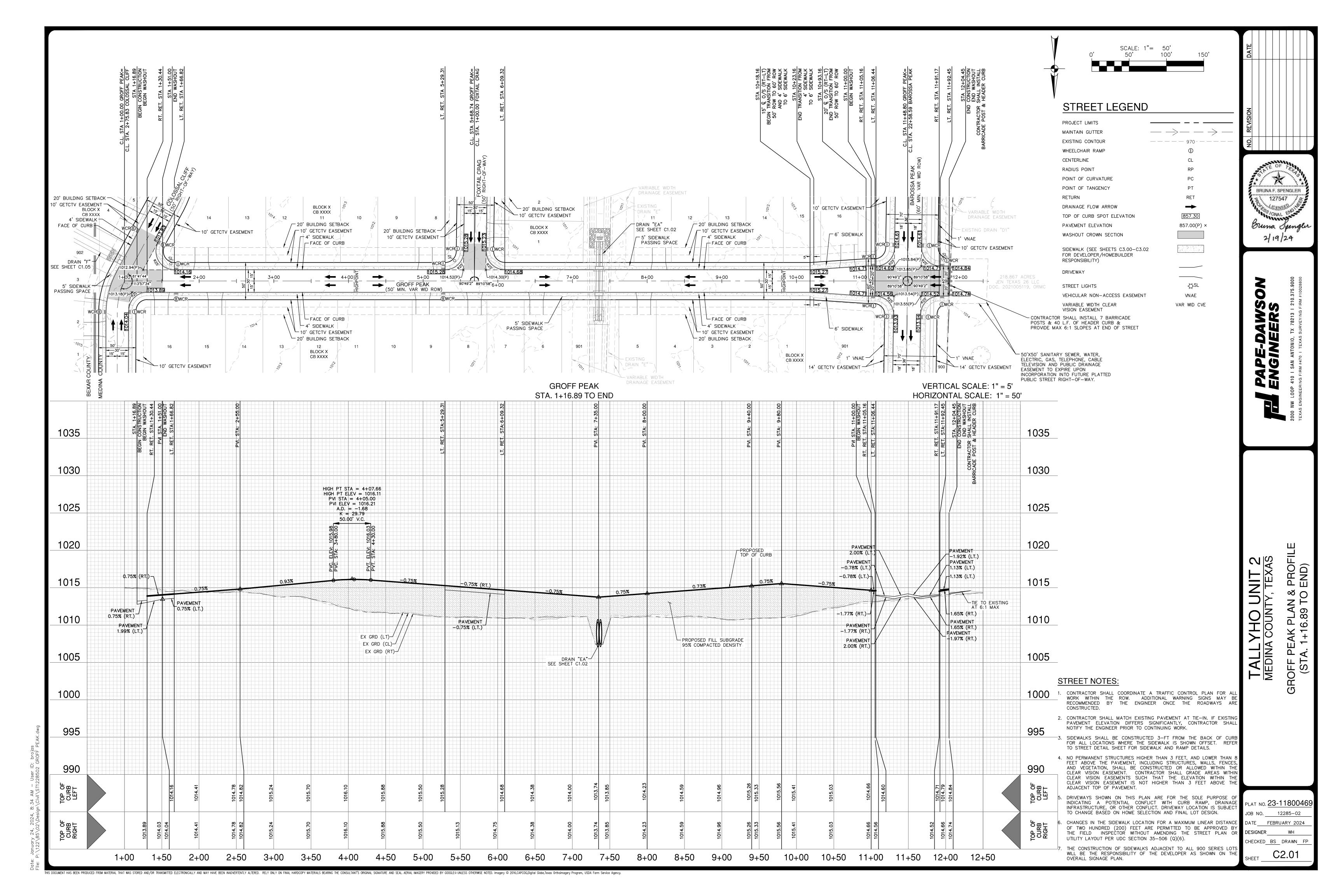
D Lap Bars M1 1'-6" minimum with Bars M2.

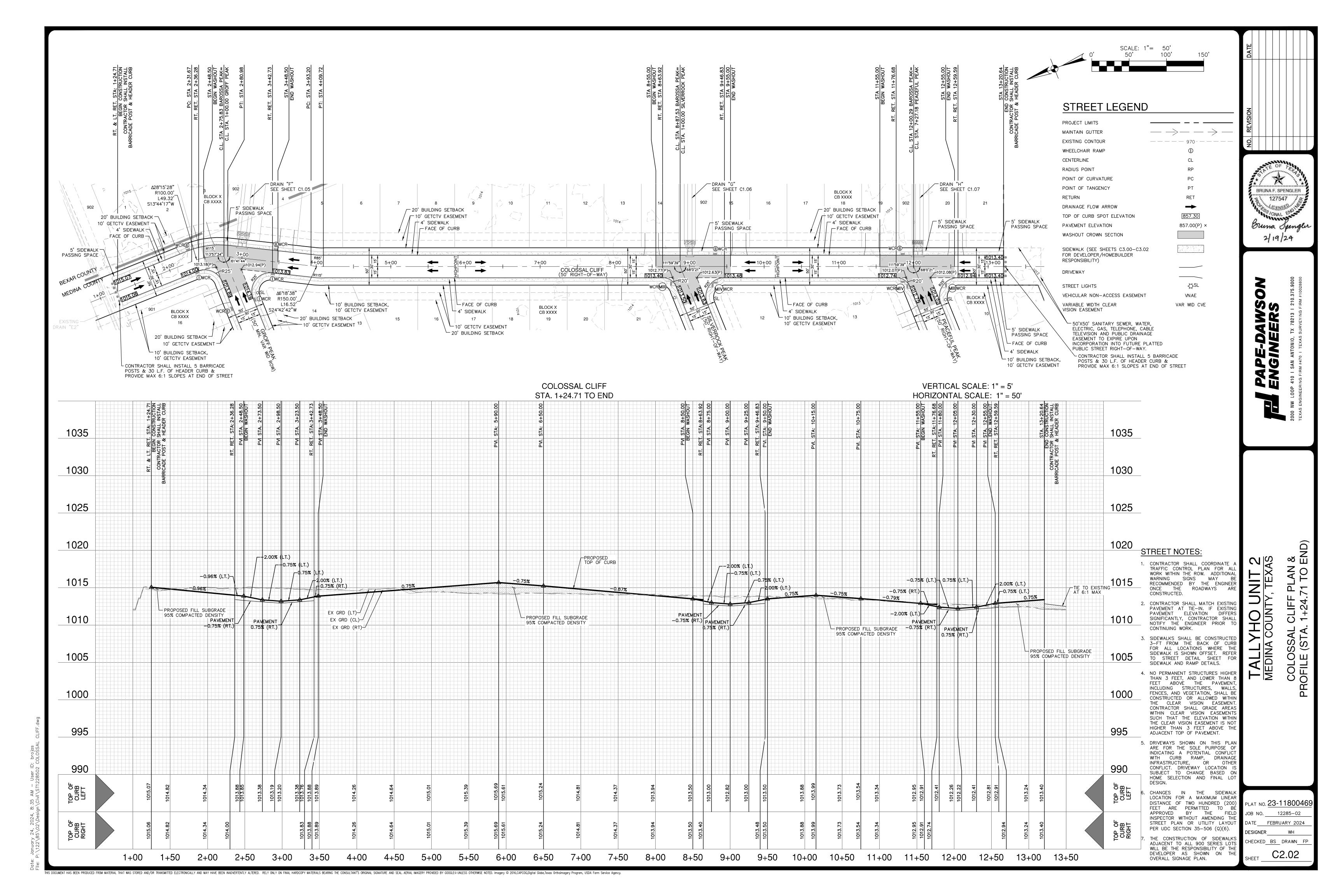
two pairs of Bars G per wing.

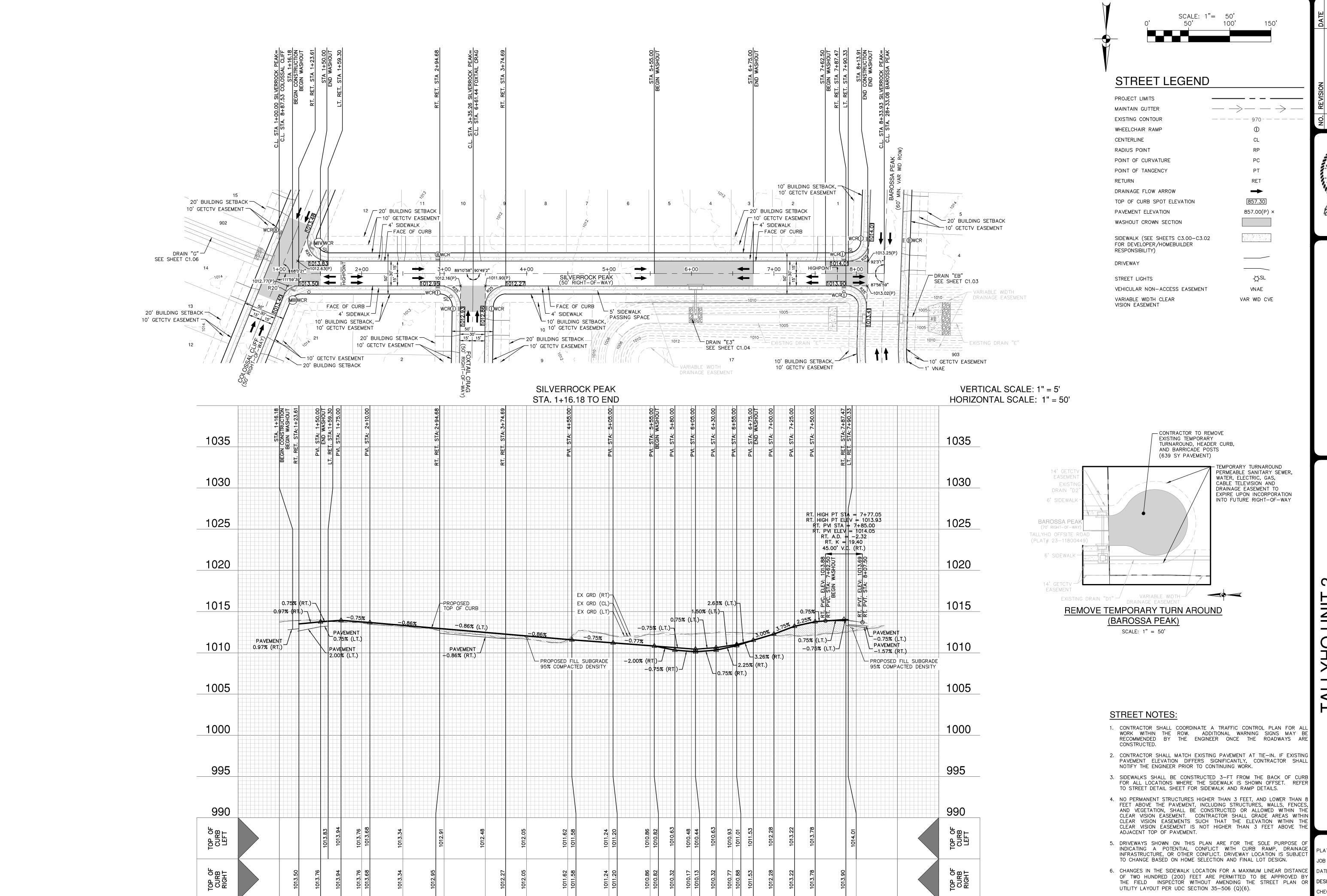
(12) 3'-0" for Hw < 4'.

(13) 6" for Hw < 4'.









3+50

1+50

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2+00

2+50

3+00

4+00

4+50

5+00

5+50 6+00 6+50 7+00 7+50 8+00



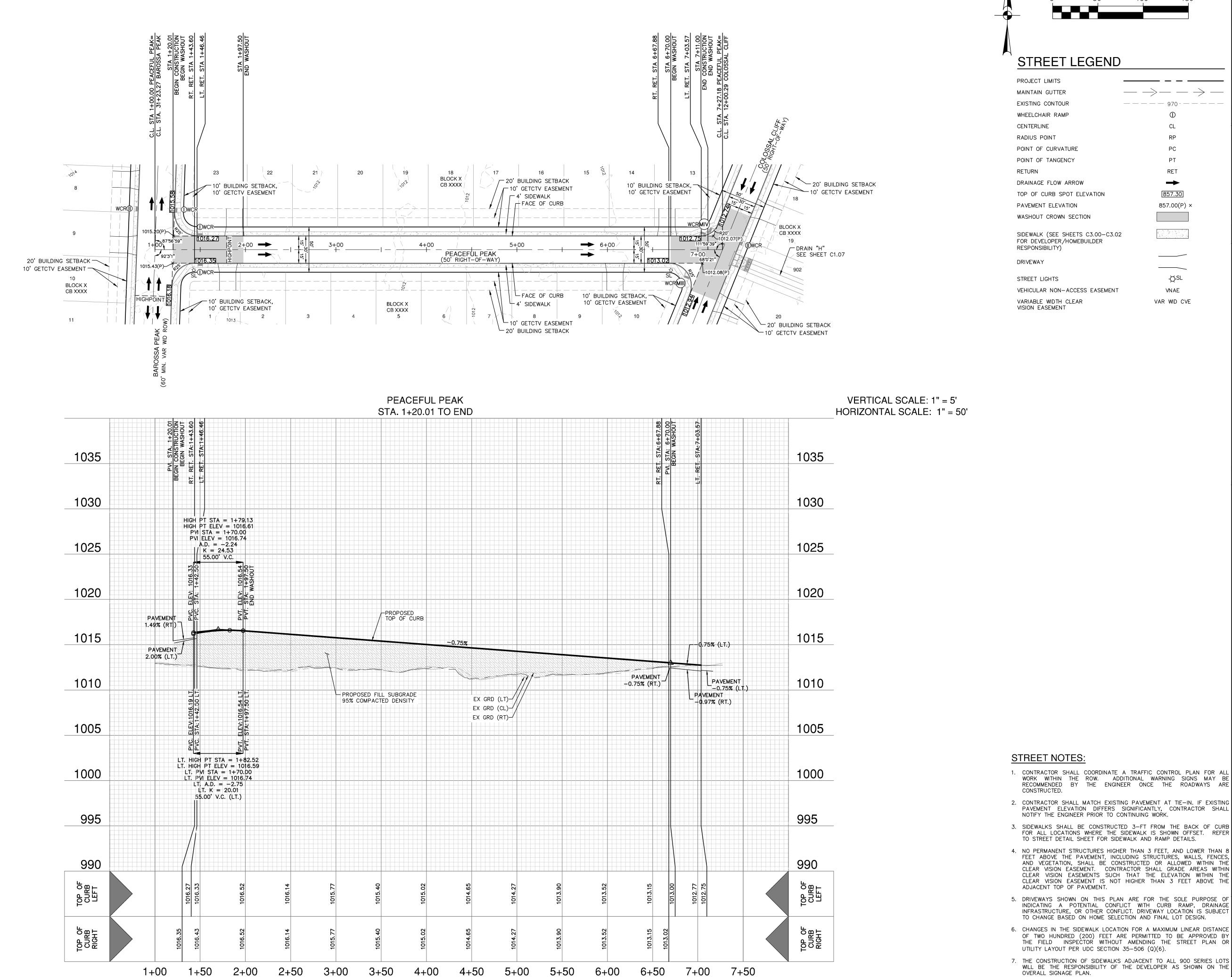
YHO UNIT A COUNTY, TEXA TALL)

EAK PI

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.

PLAT NO. 23-11800469 JOB NO. 12285-02 DESIGNER

HECKED BS DRAWN FP C2.03



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

SCALE: 1"= 50' 50' 100' 150' STREET LEGEND PROJECT LIMITS

RET

857.30

857.00(P) ×



-XSL VNAE VAR WID CVE

TALLYHO UNIT 2 MEDINA COUNTY, TEXAS :AK PL

3. SIDEWALKS SHALL BE CONSTRUCTED 3-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS. 4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN TH CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE TH

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

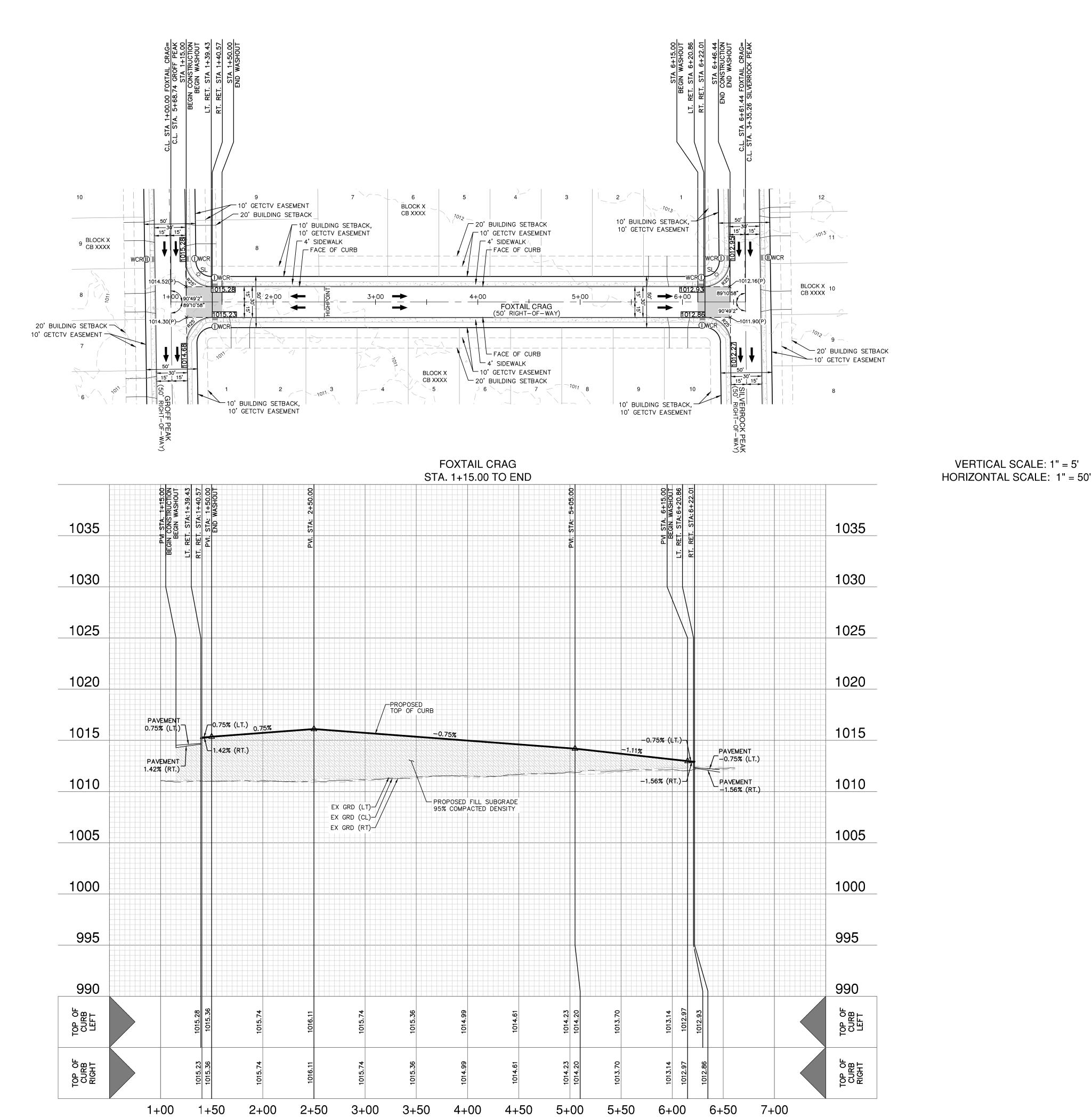
6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).

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

PLAT NO. 23-11800469 JOB NO. 12285-02 DESIGNER

HECKED BS DRAWN FP

C2.04





STREET LEGEND

PROJECT LIMITS MAINTAIN GUTTER EXISTING CONTOUR WHEELCHAIR RAMP CENTERLINE RADIUS POINT POINT OF CURVATURE POINT OF TANGENCY RETURN RET DRAINAGE FLOW ARROW 857.30 TOP OF CURB SPOT ELEVATION 857.00(P) × PAVEMENT ELEVATION WASHOUT CROWN SECTION SIDEWALK (SEE SHEETS C3.00-C3.02 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY) DRIVEWAY -XSL STREET LIGHTS VEHICULAR NON-ACCESS EASEMENT VNAE VARIABLE WIDTH CLEAR VAR WID CVE VISION EASEMENT

BRUNA F. SPENGLER

PLAT NO. 23-11800469 JOB NO. 12285-02

DESIGNER CHECKED BS DRAWN FP C2.05

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.

1. 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

2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE—IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL

3. SIDEWALKS SHALL BE CONSTRUCTED 3-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.

4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE

5. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT

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

TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).

CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN TH CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE TH

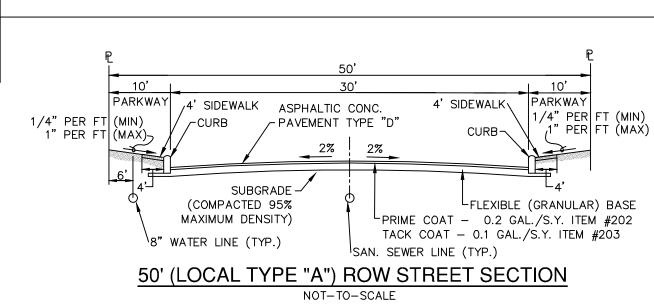
NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.

STREET NOTES:

ADJACENT TOP OF PAVEMENT.

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			PAVEMEN	NT SECTIO	N DETAIL				
STREET NAME	STATION	TYPE "D" HMAC	TYPE "C" HMAC	AGGREGATE BASE	LIME STABILIZED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NU	JMBER
BAROSSA PEAK (LOCAL C)	20+46.01 TO 25+59.23	1.5"	2.5"	21.0"	8"	NO	2.0	1.5(.44) = 0.66 2.5(.44) = 1.10 21(.14) = 2.94 8(.08) = 0.64	5.34
BAROSSA PEAK (LOCAL B)	25+59.23 TO END	1.5"	2.5"	18.5"	8"	NO	2.0	1.5(0.44) = 0.66 2.5(0.44) = 1.10 18.5(0.14) = 2.59 8(0.08) = 0.64	4.99
GROFF PEAK (LOCAL B)	10+18.16 TO END	1.5"	2.5"	18.5"	8"	NO	2.0	1.5(0.44) = 0.66 2.5(0.44) = 1.10 18.5(0.14) = 2.59 8(0.08) = 0.64	4.99
GROFF PEAK	1+16.89 TO 10+18.16	2.0"	_	11.0"	6"	NO	2.0	2(0.44) = 0.88 11(0.14) = 1.54 6(0.08) = 0.48	2.90
COLOSSAL CLIFF	1+24.71 TO END	2.0"	_	11.0"	6"	NO	2.0	2(0.44) = 0.88 11(0.14) = 1.54 6(0.08) = 0.48	2.90
SILVERROCK PEAK	1+16.18 TO END	2.0"	_	11.0"	6"	NO	2.0	2(0.44) = 0.88 11(0.14) = 1.54 6(0.08) = 0.48	2.90
PEACEFUL PEAK	1+20.01 TO END	2.0"	_	11.0"	6"	NO	2.0	2(0.44) = 0.88 11(0.14) = 1.54 6(0.08) = 0.48	2.90
FOXTAIL CRAG	1+15.00 TO END	2.0"	_	11.0"	6"	NO	2.0	2(0.44) = 0.88 11(0.14) = 1.54 6(0.08) = 0.48	2.90



GENERAL NOTES:

- 1. CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT PREPARED BY INTEC. (INTEC PROJECT NO. S211010-P) DATED FEBRUARY 12, 2021.
- 2. GEOTECHNICAL ENGINEER TO BE ON SITE TO MAKE FINAL SUBGRADE DETERMINATION. CHANGES TO THIS PAVEMENT DESIGN SHALL BE SUBMITTED TO COSA-DSD PRIOR TO PLACEMENT OF BASE MATERIAL.
- 3. 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.
- 4. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE.
- 5. THE FLEXIBLE BASE COURSE SHOULD BE CRUSHED LIMESTONE CONFORMING TO TXDOT STANDARD SPECIFICATIONS, ITEM 247, TYPE A, GRADES 1 OR 2.
- 6. THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM WATER CONTENT TO 3 PERCENTAGE POINTS ABOVE THE OPTIMUM WATER CONTENT UNTIL PERMANENTLY COVERED.
- 7. 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.
- 8. 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.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL MATERIAL TESTING WITH THE PROJECT GEOTECHNICAL ENGINEER. TESTING SHALL BE PAID FOR BY THE OWNER.
- 10. FILL MATERIAL SHOULD BE NATIVE ON—SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2 AND A MAXIMUM PLASTICITY INDEX VALUE OF 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.
- 11. A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN THE BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.

STREET SUBGRADE NOTES:

- 1. IF THE STREET SUBGRADE PLASTICITY INDEX VALUE IS GREATER THAN 20, SUBGRADE LIME TREATMENT IS NEEDED AS PER CITY OF SAN ANTONIO REQUIREMENTS.
- 2. IF THE SUBGRADE PLASTICITY INDEX VALUE IS 20 OR LESS. SUBGRADE LIME TREATMENT IS NOT NEEDED. THE SUBGRADE SHOULD BE MOISTURE CONDITIONED (COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT A MINIMUM MOISTURE CONTENT OF OPTIMUM PLUS 2 PERCENT (TEX114E)).
- 3. THE SUBGRADE SHOULD BE LIME TREATMENT USING 7 PERCENT LIME TO A DEPTH OF 6 INCHES AS NOTED ABOVE.
- 4. THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO STABILIZATION. IF THE SOIL SULFATE CONTENT IS HIGH, AN ALTERNATE PROCEDURE / RECOMMENDATION WILL BE NEEDED.
- 5. LIME APPLICATION RATE OF 32 LBS PER SQ YARD FOR 6 INCH DEPTH OF LIME TREATMENT IS RECOMMENDED. LIME APPLICATION RATE OF 43 LBS PER SQ YARD FOR 8 INCH DEPTH OF LIME TREATMENT IS RECOMMENDED.
- 6. APPROVED FILL MATERIAL SHOULD BE USED TO RAISE THE GRADE. THE FILL SHOULD BE FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2.5. LIME APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.
- 7. THE SUBGRADE SHOULD BE PROOF ROLLED TO IDENTIFY SOFT AREAS BEFORE STABILIZATION.

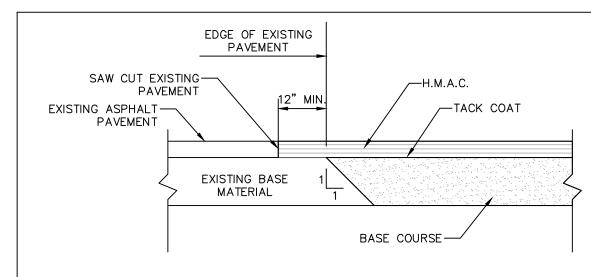
LIME NOTES:

FOR MIXTURE DESIGN.

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

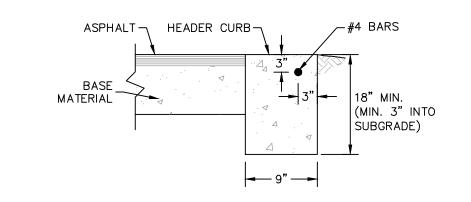
 1. AFTER INITIAL MIXING THE SOIL—LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2-3) DAYS. MAINTAIN MOISTURE DURING MELLOWING.
- 2. AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE ¾ INCH SIEVE FROM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

 MINIMUM PASSING 1¾ SIEVE 100
- MINIMUM PASSING ³/₄" SIEVE
 MINIMUM PASSING NO. 4 SIEVE
 6
- 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
- 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
- 6. VERIFY DEPTH OF LIME TREATED LAYER TO DEPTH AS NOTED ON PLAN TO WITHIN +/- 1.0 INCH.

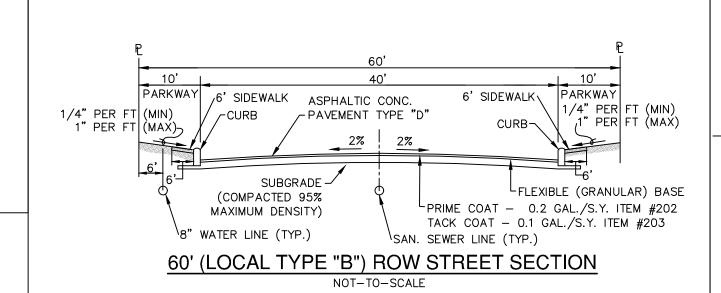


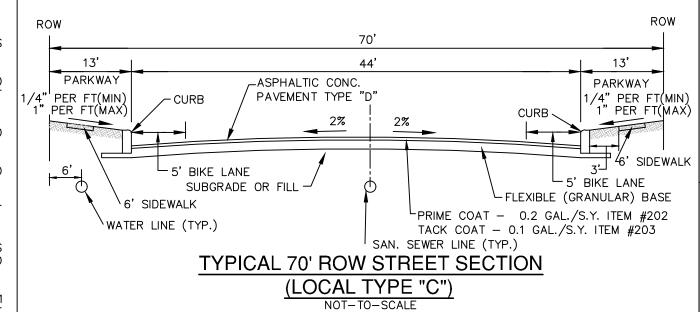
ASPHALT/ASPHALT JUNCTURE DETAIL

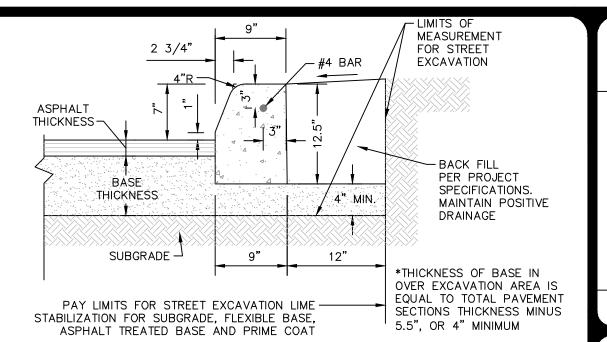
NOT-TO-SCALE



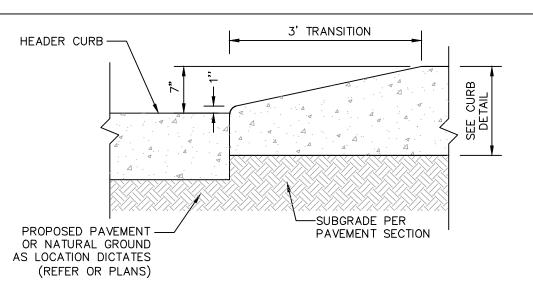
HEADER CURB DETAIL



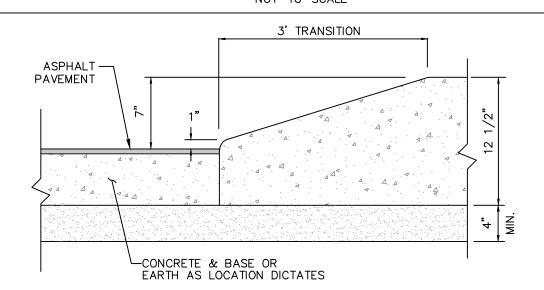




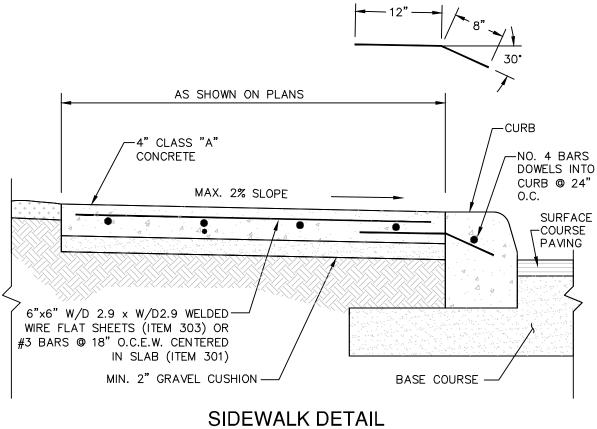
CONCRETE CURB DETAIL NOT-TO-SCALE



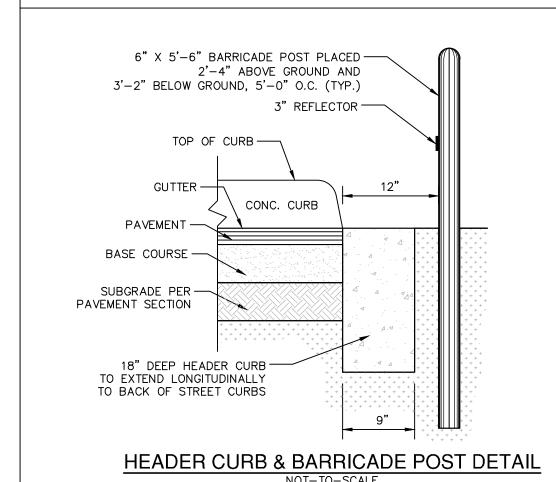
CURB TRANSITION DETAIL (FROM HEADER CURB TO STANDARD CURB NOT-TO-SCALE



CURB TRANSITION DETAIL (FROM PAVEMENT TO STANDARD CURB)



NOT-TO-SCALE



TALLYHO UNIT 2

BRUNA F. SPENGLER

PLAT NO. 23-1180046

JOB NO. 12285-02

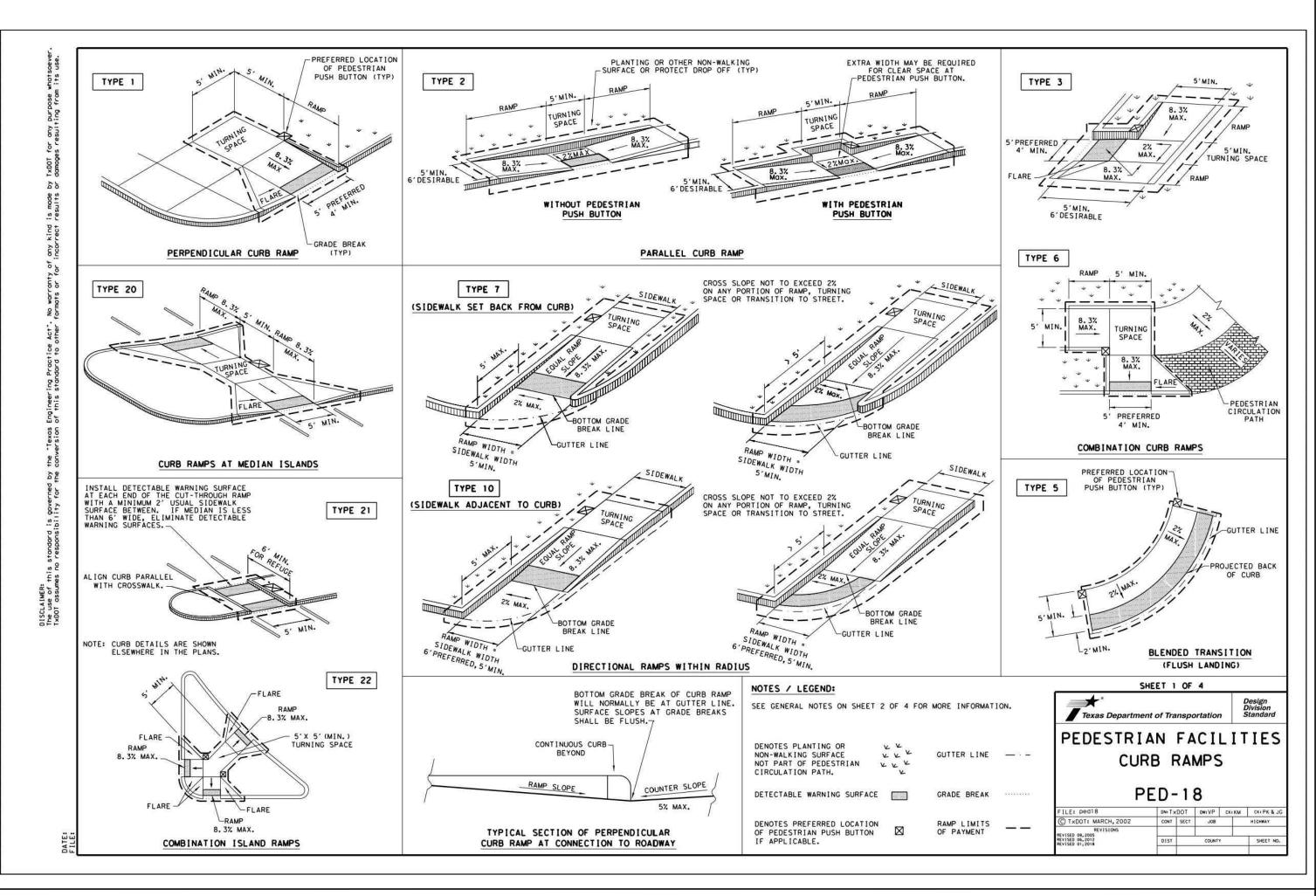
DATE FEBRUARY 2024

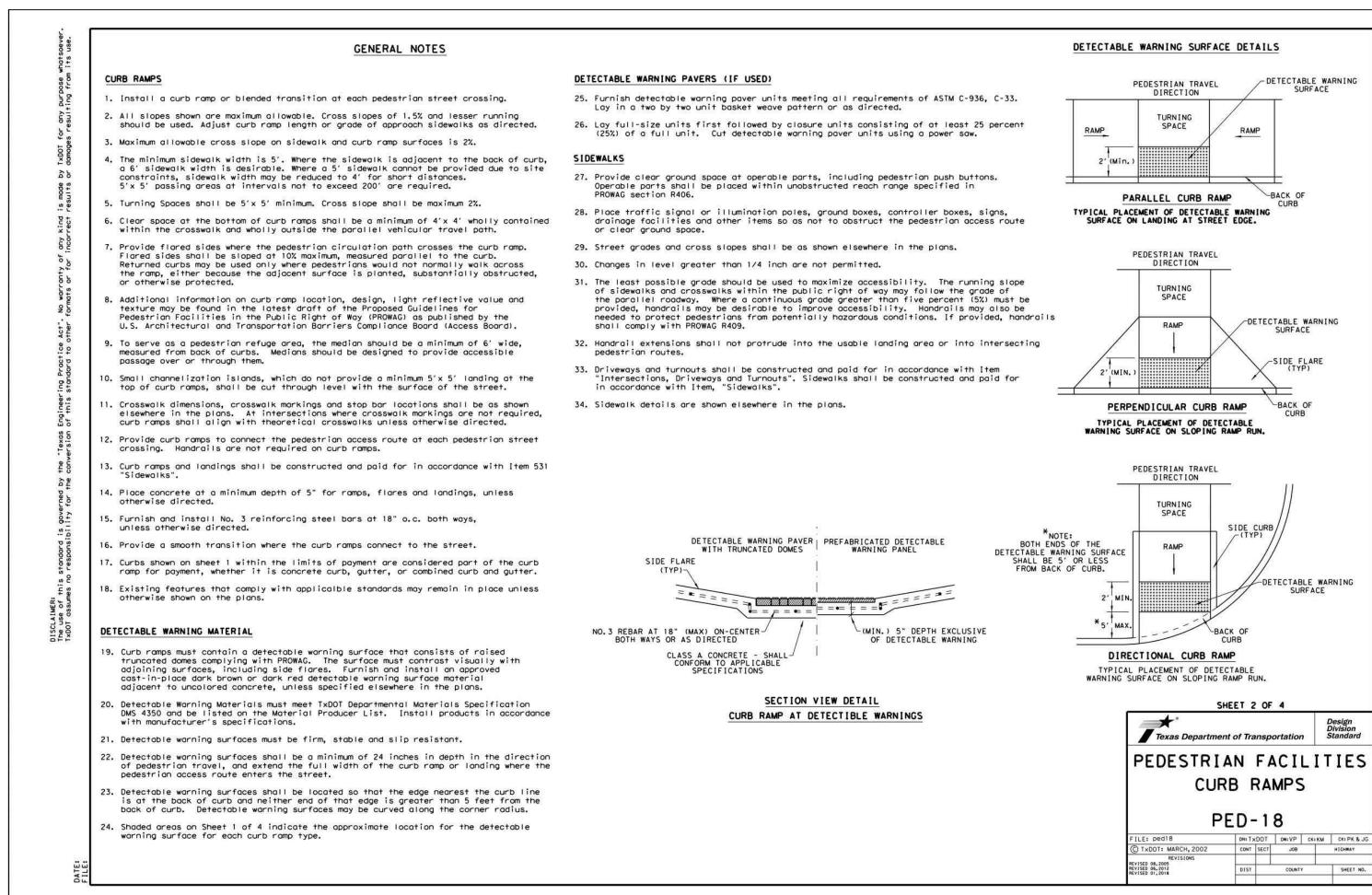
DESIGNER WH

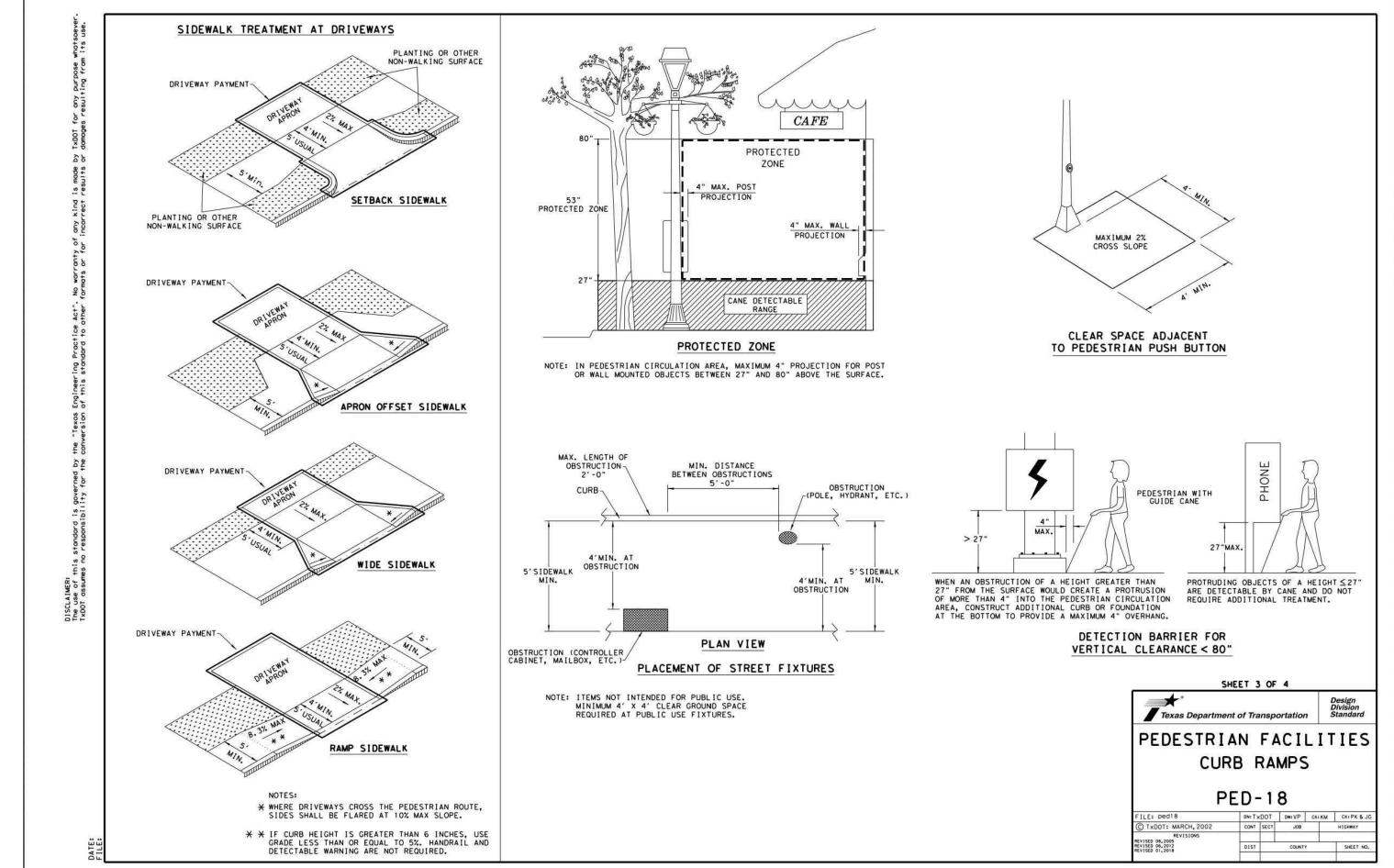
CHECKED BS DRAWN FP

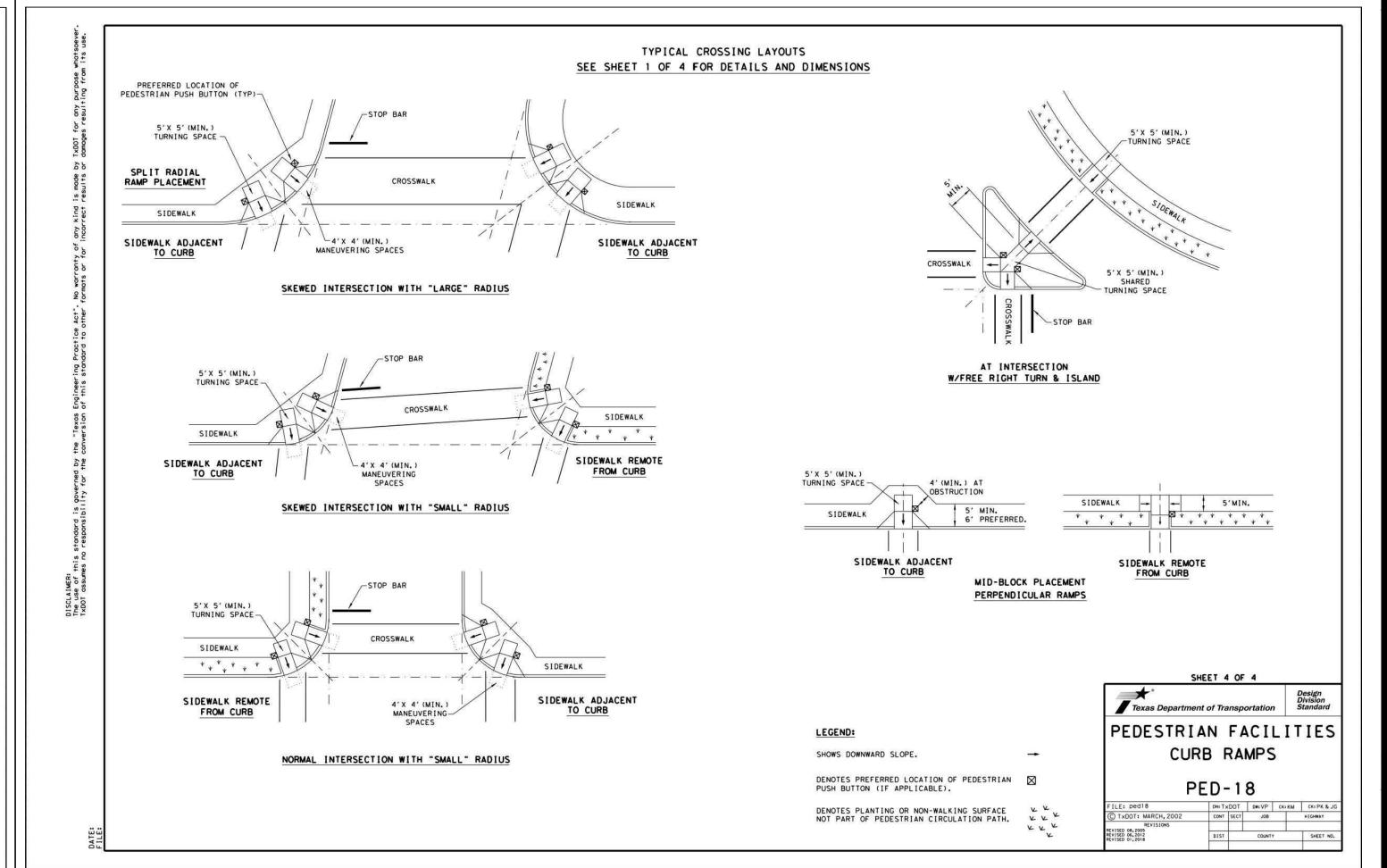
____C2.06

e: January 24, 2024, 8:38 AM — User ID: brojas





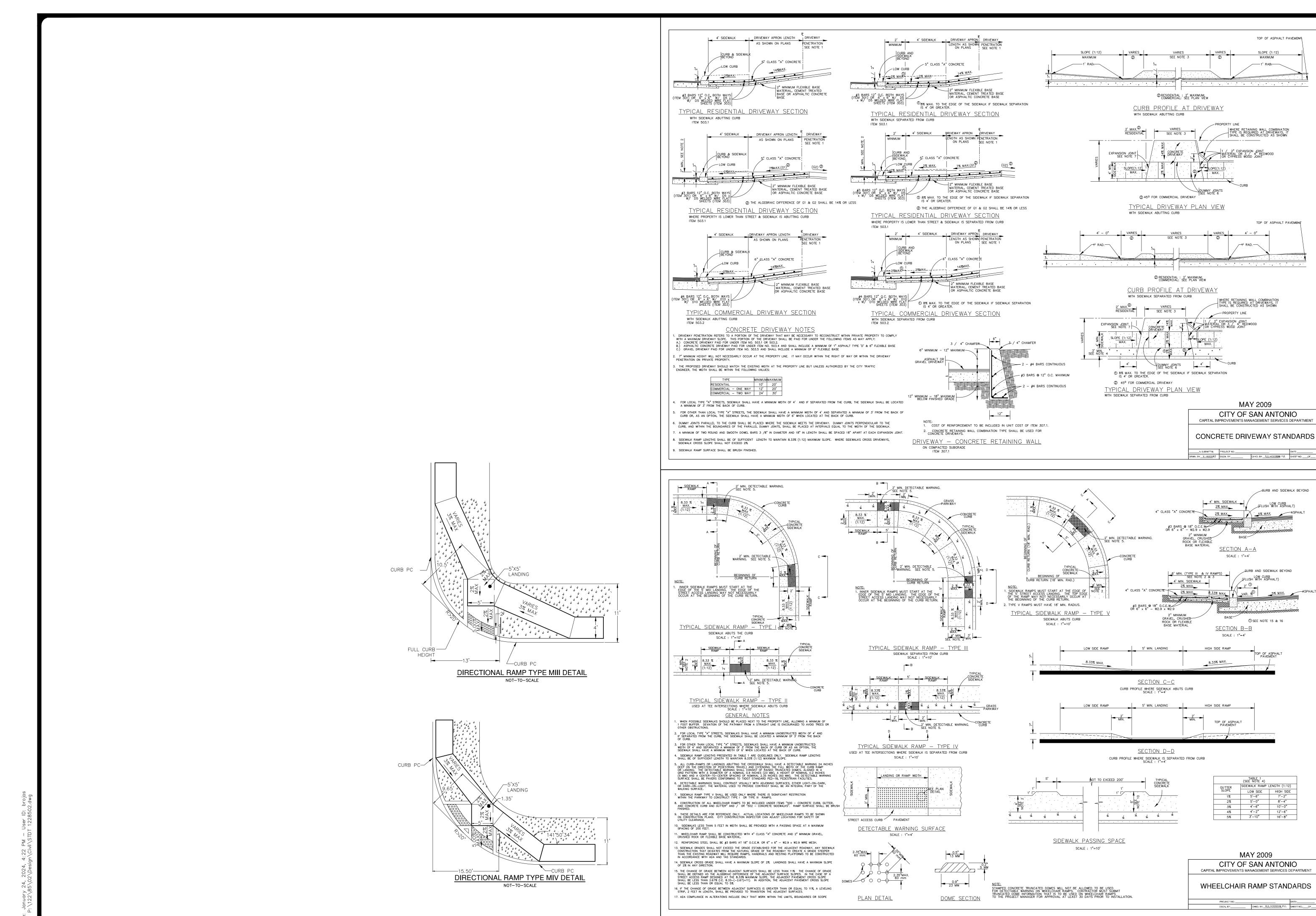




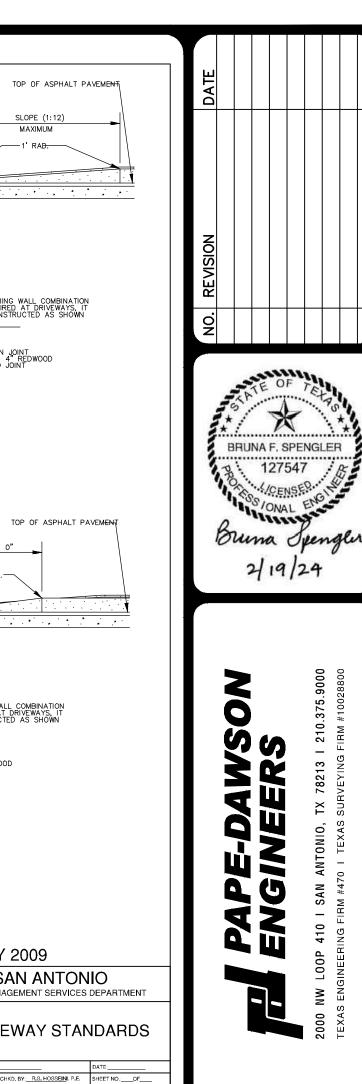


LAT NO. 23-1180046 12285-02 DESIGNER CHECKED BS DRAWN FP C2.07

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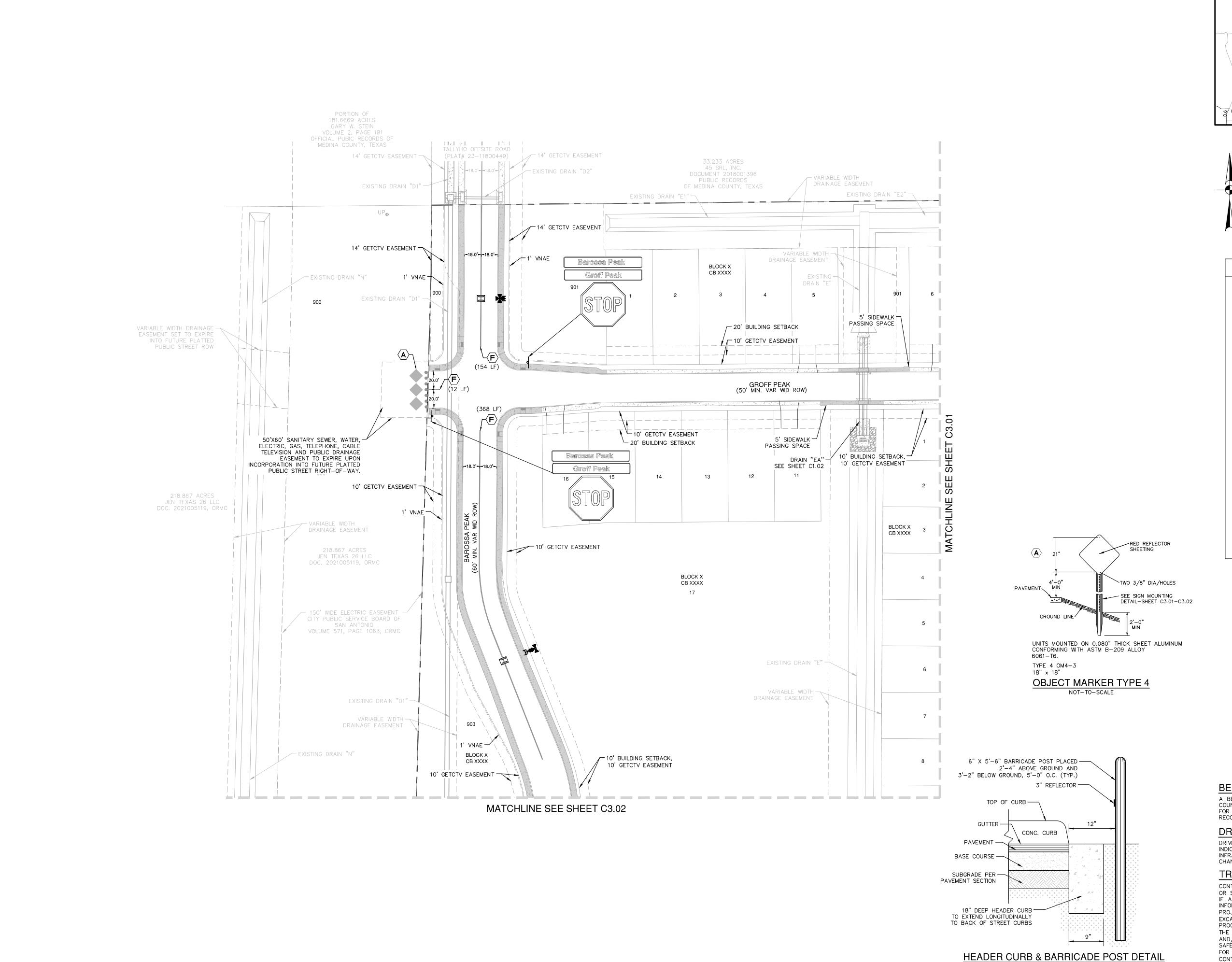


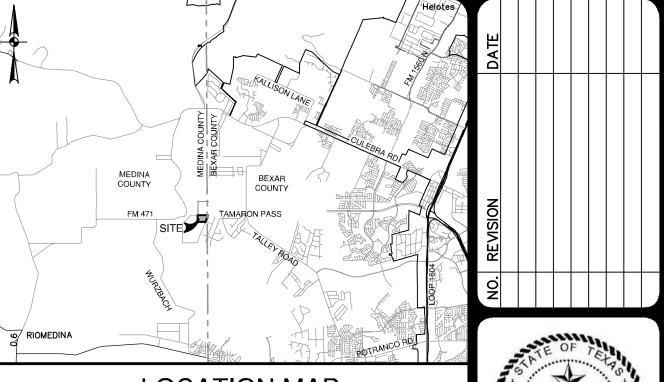
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE® UNLESS OTHERWISE NOTED. Imagery © 2016,CAPCOG,Digital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



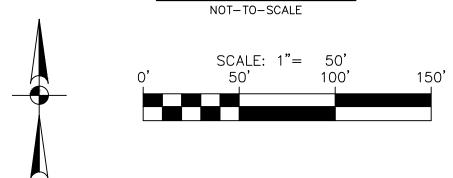
BURB AND SIDEWALK BEYOND

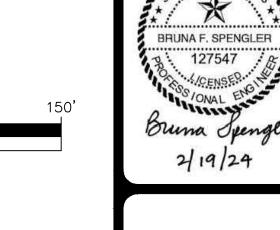
PLAT NO. 23-11800469 JOB NO. 12285-02 ATE FEBRUARY 2024 DESIGNER CHECKED<u>BS</u> DRAWN<u>FP</u> C2.08





LOCATION MAP





ITEM SYMBOL NUMBER ——— — — UNIT BOUNDARY CURB INLET PROPOSED DRIVEWAY VEHICULAR NON-ACCESS EASEMENT VARIABLE WIDTH CLEAR VAR WID CVE VISION EASEMENT SIDEWALK (HOMEBUILDER RESPONSIBILITY) SIDEWALK (SITEWORK CONTRACTOR RESPONSIBILITY) TYPE II BLUE RAISED PAVEMENT MARKERS -NO SEPARATE PAY ITEM (N.T.S.) END OF ROAD MARKER 0M4 - 3•••• BARRICADE POSTS STREET SIGN Street Name 531.57 531.3 30"X30"

YELLOW DOUBLE 6" SOLID -

(REFL) PAVEMENT MARKERS

THERMOPLASTIC WITH TYPE II A-A @ 20'

BEXAR COUNTY ROW NOTES:

A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.

DRIVEWAY NOTE:

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

TRENCH EXCAVATION SAFETY PROTECTION:

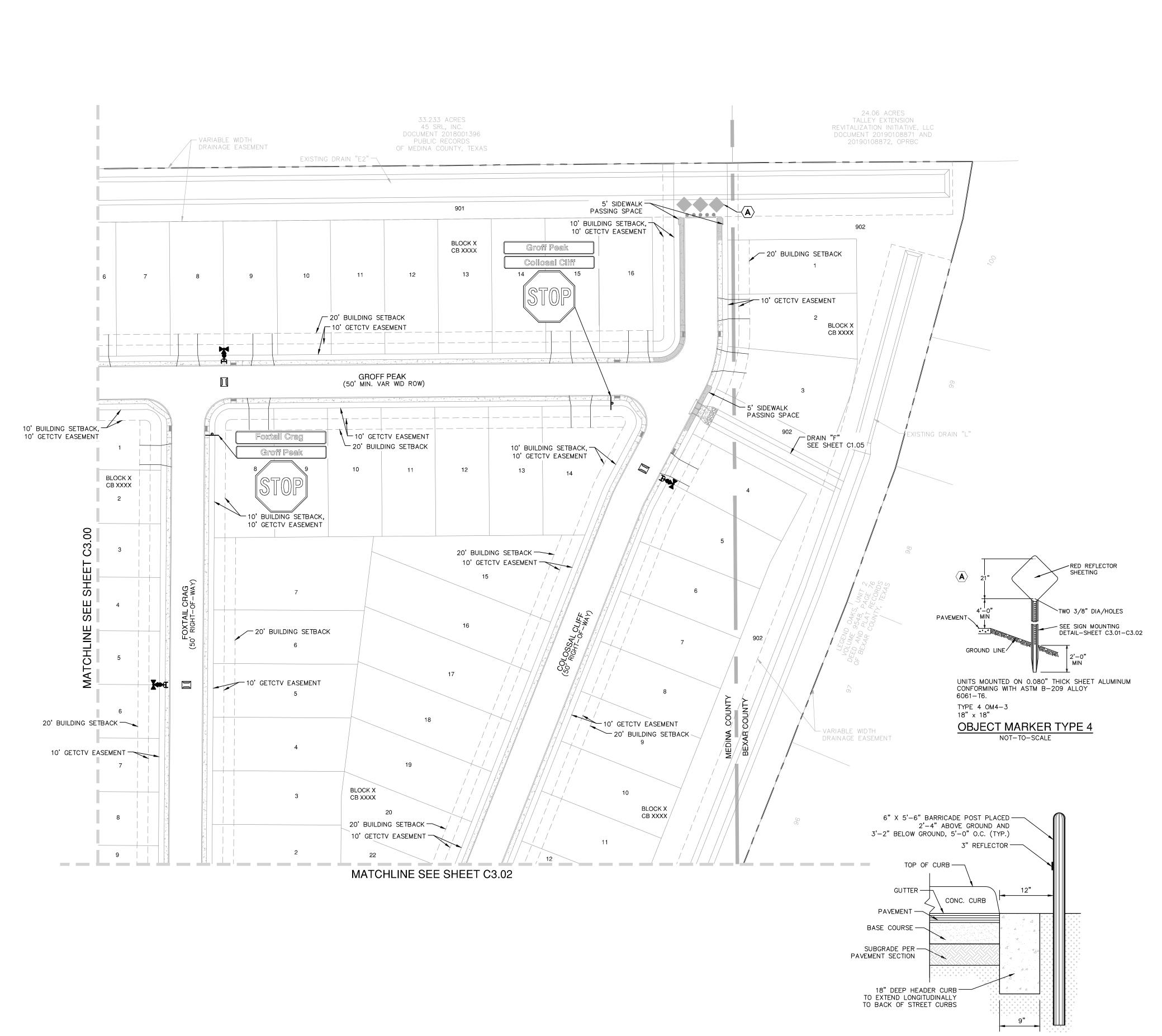
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN TH PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S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

PLAT NO. 23-11800469

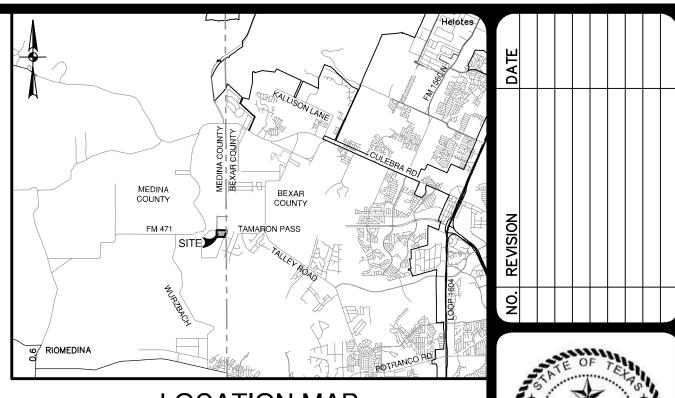
C3.00

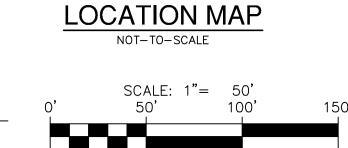
CHECKED BS DRAWN FP

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CURB INLET

VEHICULAR

PROPOSED DRIVEWAY

NON-ACCESS EASEMENT

VARIABLE WIDTH CLEAR

SIDEWALK (HOMEBUILDER RESPONSIBILITY) SIDEWALK (SITEWORK

VISION EASEMENT

CONTRACTOR

(N.T.S.)

0M4 - 3

30"X30"

THERMOPLASTIC WITH TYPE II A-A @ 20'

YELLOW DOUBLE 6" SOLID -

(REFL) PAVEMENT MARKERS

BEXAR COUNTY ROW NOTES:

DRIVEWAY NOTE:

HEADER CURB & BARRICADE POST DETAIL

A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN

FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.

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TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN TH

PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH

EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OF

PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR

CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN

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

CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

RESPONSIBILITY) TYPE II BLUE RAISED

PAVEMENT MARKERS -

NO SEPARATE PAY ITEM

END OF ROAD MARKER

BARRICADE POSTS

STREET SIGN

SYMBOL

——— — — UNIT BOUNDARY

VAR WID CVE

••••

Street Name



ITEM

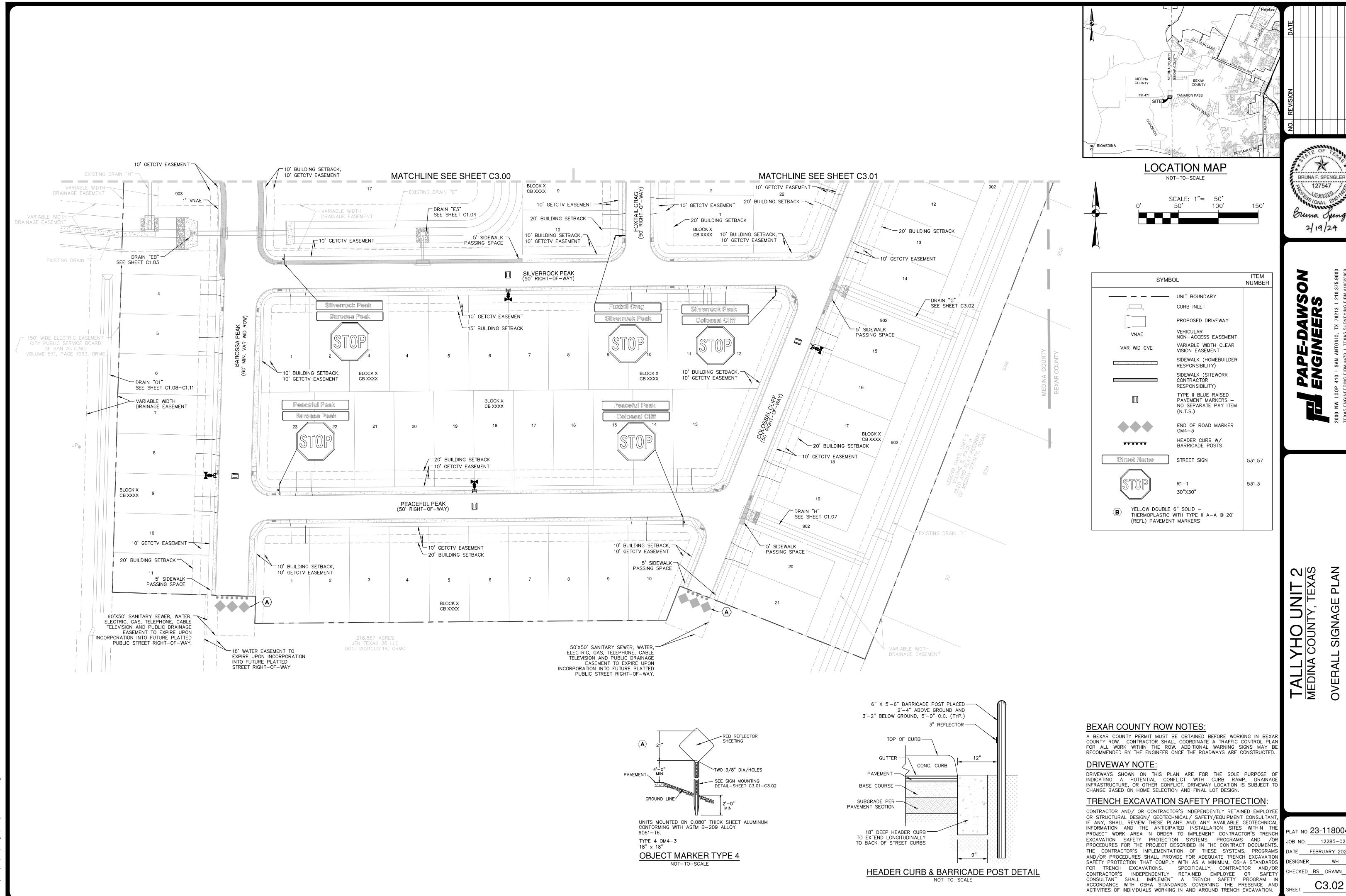
NUMBER

531.57

531.3

PLAT NO. 23-11800469

CHECKED BS DRAWN FP C3.01



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LAT NO. 23-11800469 JOB NO. 12285-02

HECKED BS DRAWN FP

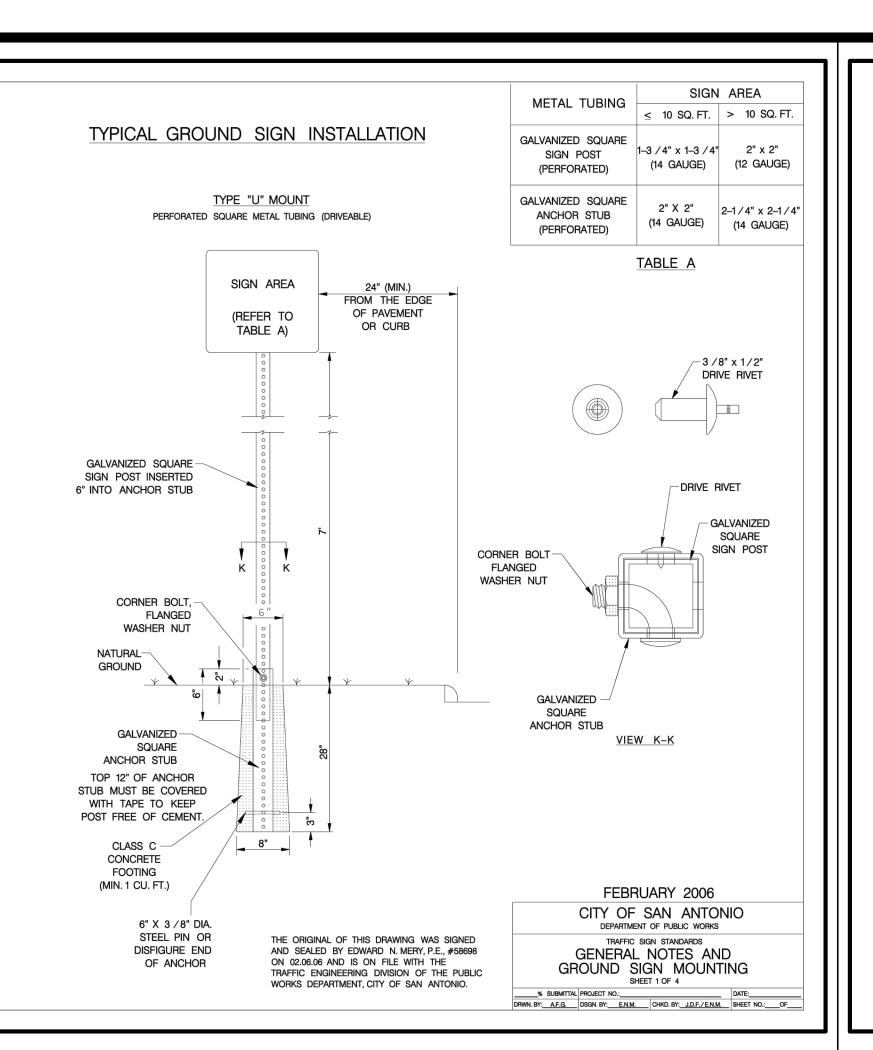


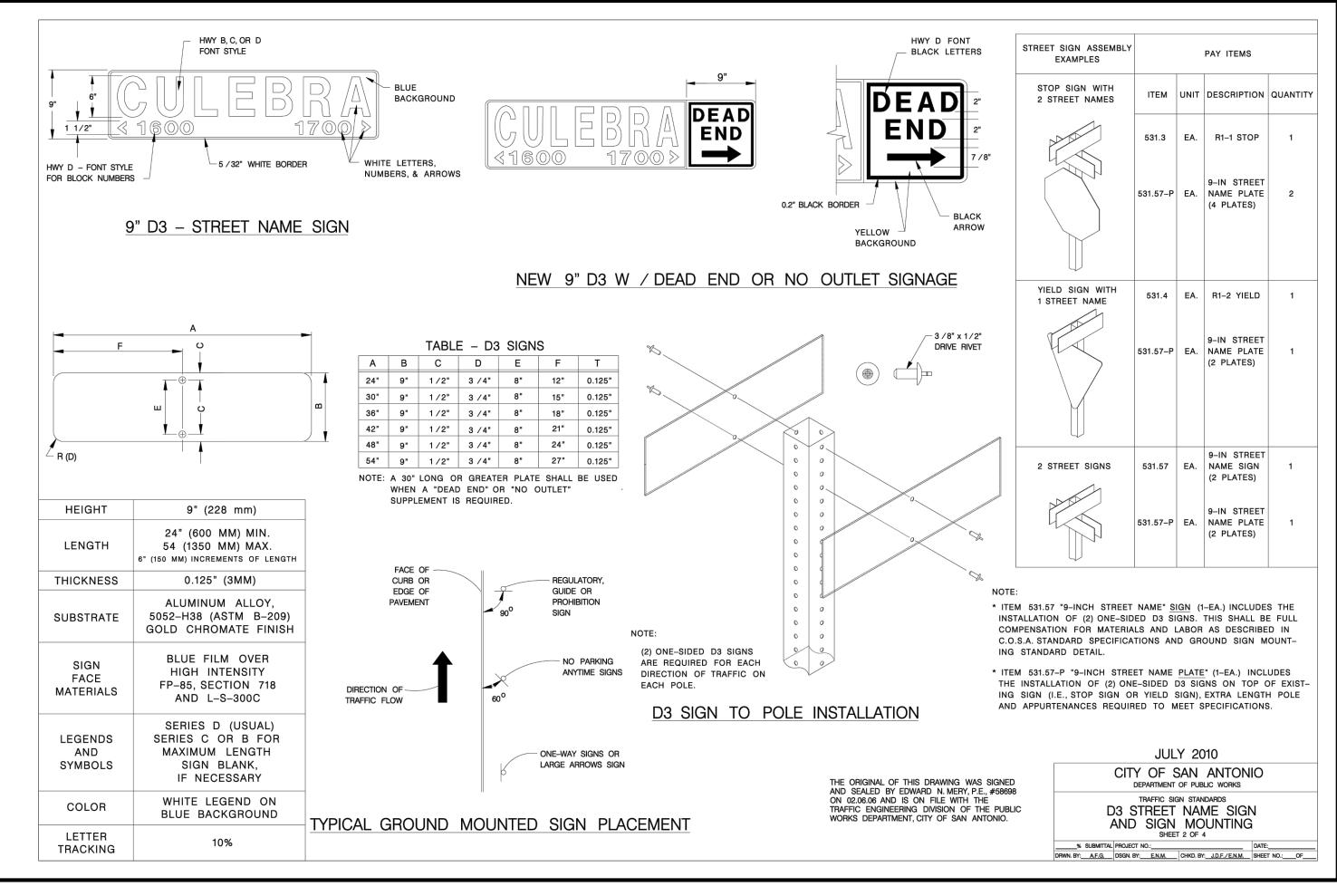
- 1.) THE EXISTING SIGNS LOCATED ON THE JOBSITE ARE THE PROPERTY OF THE CITY OF SAN ANTONIO. THROUGHOUT THE PERIOD OF THE CONTRACT, THE CONTRACTOR SHALL PROTECT THESE SIGNS SUCH THAT THEY ARE NOT DAMAGED IN THE COURSE OF CONSTRUCTION ACTIVITY. SUCH PROTECTION SHALL INCLUDE THE PERIOD AFTER SIGNS ARE REMOVED FROM INSTALLATION AND STORED BY THE CONTRACTOR OR DELIVERED TO TRAFFIC OPERATIONS. THE ASSISTANT TRAFFIC SUPERINTENDENT (207-7765) MUST BE NOTIFIED 48 HOURS IN ADVANCE PRIOR TO DELIVERY.
- 2.) AFTER SIGNS ARE REMOVED FROM INSTALLATION AND ARE BEING STORED BY THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE TRAFFIC OPERATIONS SECTION OF THE PUBLIC WORKS DEPARTMENT (207-7765) AND ARRANGE FOR A

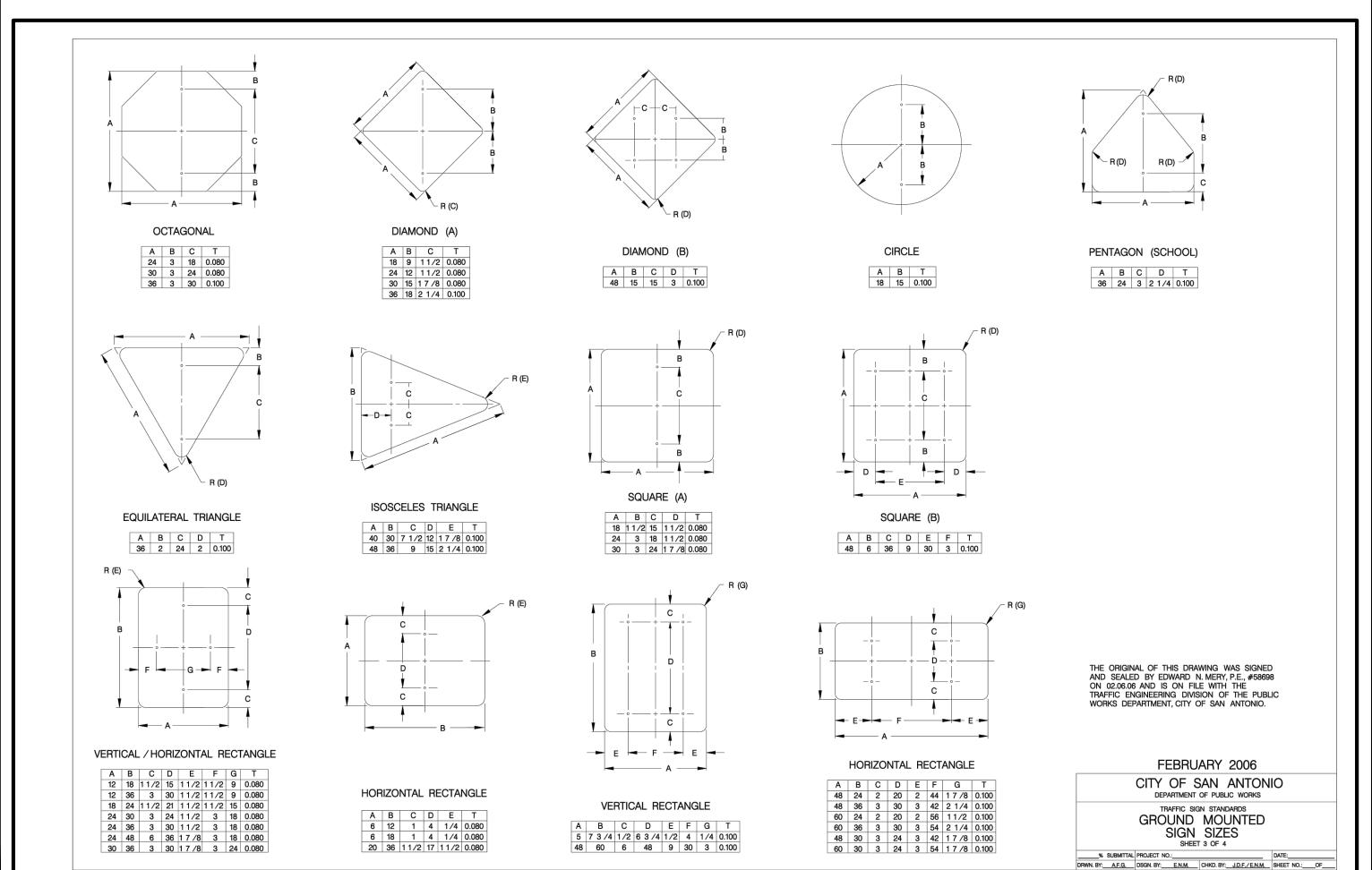
CONVENIENT TIME TO DELIVER CITY SIGNS AND POLES

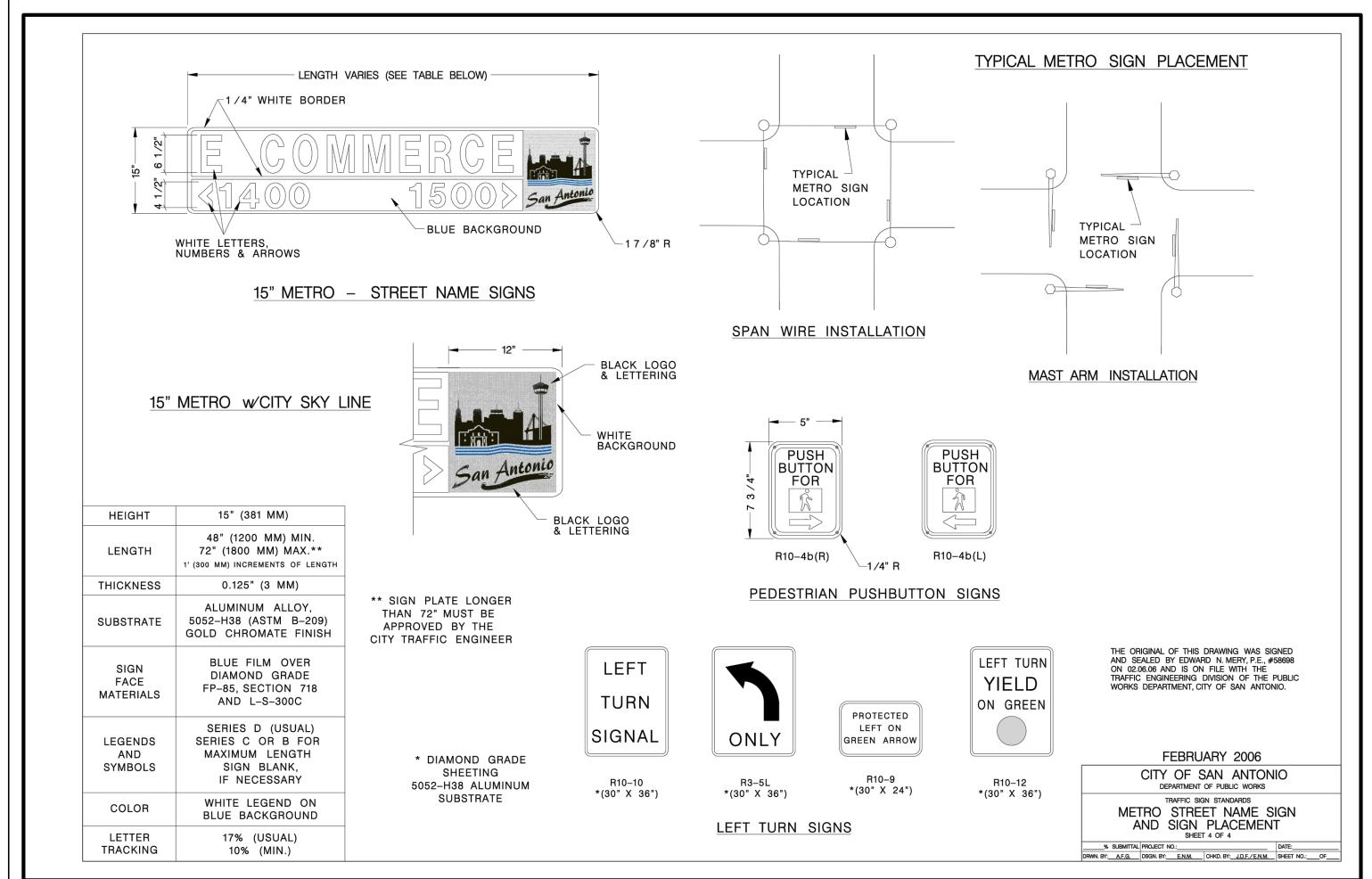
- 3.) PRIOR TO THE START OF CONSTRUCTION, ALL EXISTING SIGNS WITHIN THE AREA OF CONSTRUCTION WILL BE INVENTORIED AND DOCUMENTED JOINTLY BY THE TRAFFIC ENGINEERING (207-7720) CONSTRUCTION INSPECTION AND THE CONTRACTOR. THIS DOCUMENT WILL BE JOINTLY SIGNED BY BOTH PARTIES REFLECTING THE SIGN TYPE, SIGN SIZE, SIGN CONDITION, SIGN LOCATION, REFLECTIVITY ADEQUACY, ETC. THE CONTRACTOR IS HELD ACCOUNTABLE FOR THESE SIGNS THROUGHOUT THE PROJECT AND AT THE PROJECTS COMPLETION.
- 4.) ALL GROUND MOUNTED SIGNS SHALL USE HIGH INTENSITY REFLECTIVE SHEETING.
- 5.) ALL OVERHEAD SIGNS SHALL USE DIAMOND GRADE REFLECTIVE SHEETING.
- 6.) ALL BLANKS TO BE ALUMINUM ALLOY NO. 5052-H38.
- 7.) "T" DENOTES THICKNESS OF SIGN BLANKS.

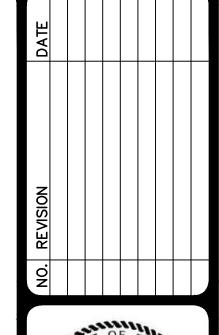
 8.) ALL HOLES SHALL BE 3 /8" DIAMETER DRILLED OR PUNCHED AS
- SHOWN ON EACH BLANK DETAIL AND SHALL BE FREE OF BURRS AND /OR ROUGH EDGES.
- SIGN BLANK CORNERS TO BE ROUNDED AS SHOWN ON EACH DETAIL.
- 10.) ALL SIGN BLANK TO BE ETCHED, DEGREASED, AND HAVE AN ALODINE FINISH PRIOR TO APPLICATION OF LEGENDS.
- 11.) ALL DETAILS ARE NOT TO SCALE.
- 12.) ALL DIMENSIONS ARE IN INCHES.
- 13.) ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN CONFORMANCE TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND STANDARD HIGHWAY SIGNS (FHWA) LATEST EDITION.
- 14.) REINSTALLATION OF PREVIOUSLY EXISTING SIGNS, WHERE REQUIRED BY THE CITY TRAFFIC ENGINEER, SHALL BE AT THE CONTRACTOR'S EXPENSE.













THE ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800

I ALLYHO UNII 2 MEDINA COUNTY, TEXAS

PLAT NO. 23-11800469

JOB NO. 12285-02

DATE FEBRUARY 2024

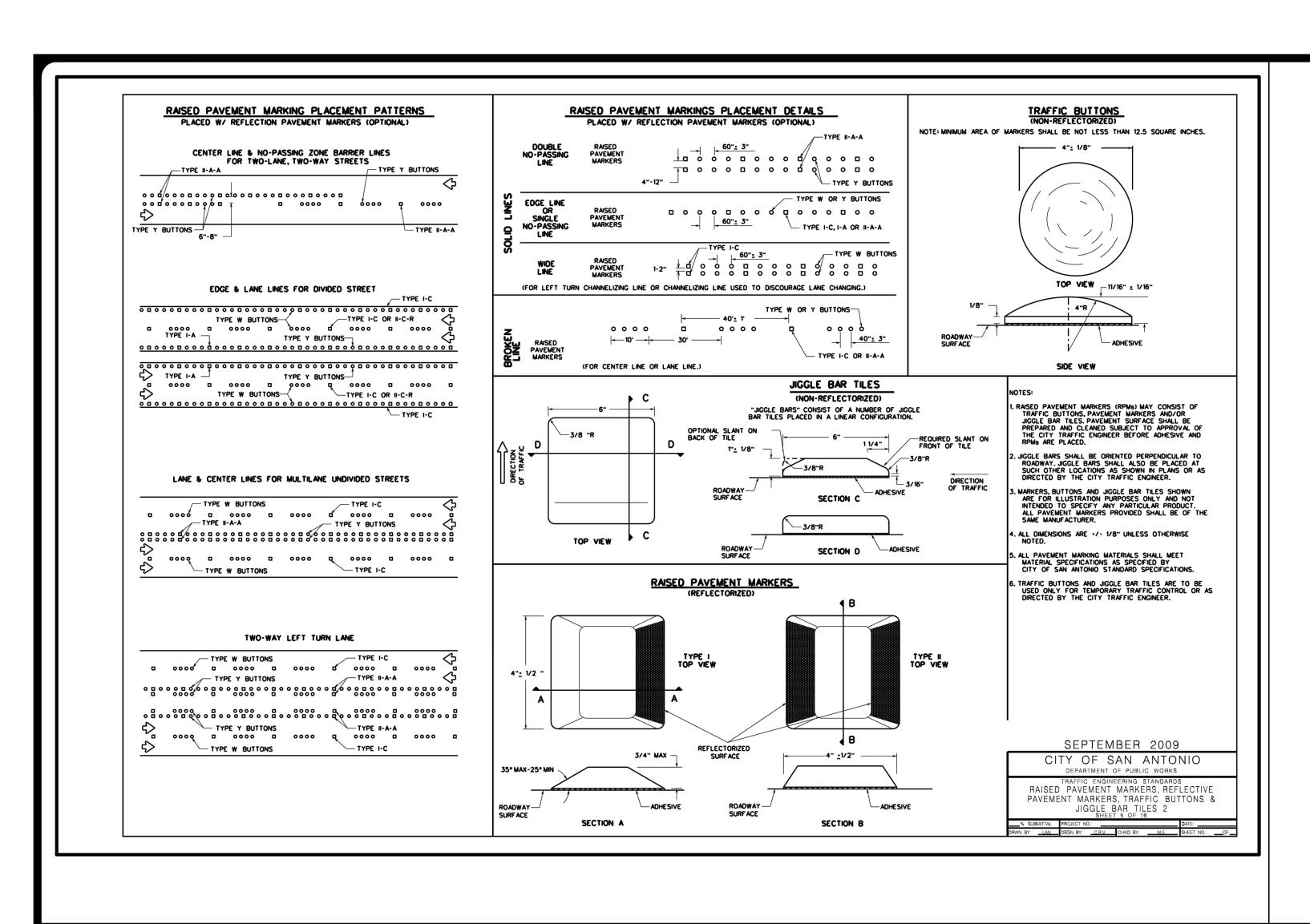
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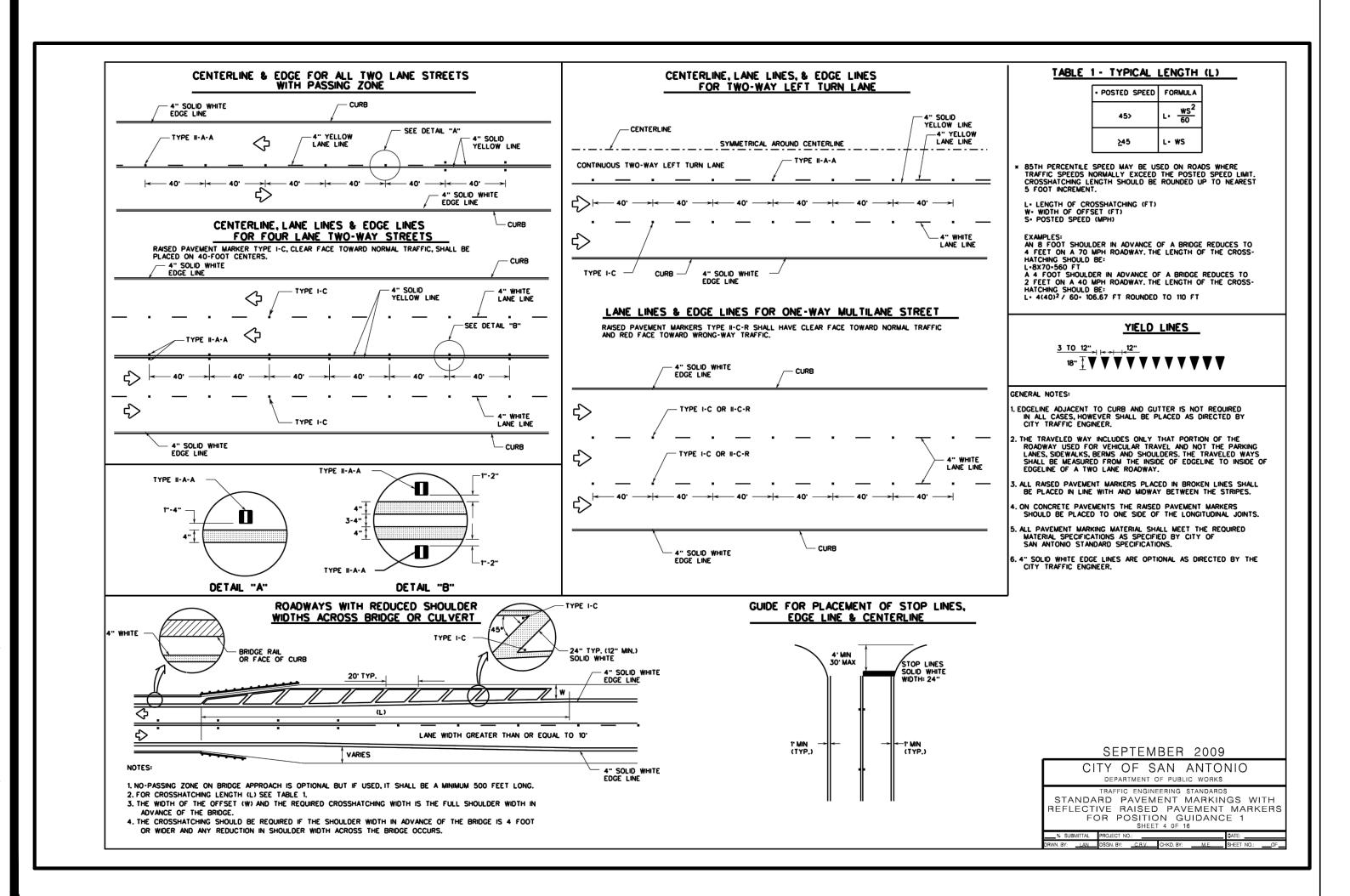
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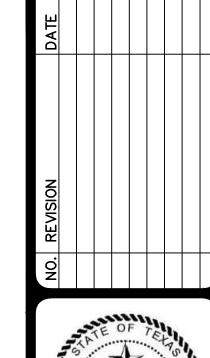
C3.03

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PAPE-DAWSON
ENGINEERS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000

TALLYHO UNIT 2
MEDINA COUNTY, TEXAS

PLAT NO. 23-11800469

JOB NO. 12285-02

DATE FEBRUARY 2024

DESIGNER WH

CHECKED BS DRAWN FP

SHEET

C3.04

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	HORI	ZONTAL AND V	ERTICAL CO	ONTROL POINTS
Point #	Northing	Easting	Elevation	Full Description
1	13,722,936.09	2,030,218.17	1007.37	SET MAG NAIL (TRAV)
2	13,723,442.23	2,030,449.64	1009.42	SET MAG NAIL & WASHER (TRAV)

45 SRL, INC.

OF MEDINA COUNTY, TEXAS

BLOCK X

CB XXXX

VARIABLE WIDTH

LINF "B"

306.70 L.F.~8" PIPE

BLOCK X CB XXXX

10' BUILDING SETBACK, 7

10' GETCTV EASEMENT

SEWER/DRAIN CROSSING

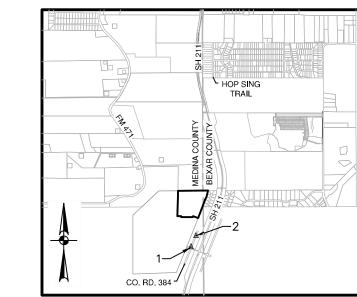
GROFF PEAK (50' MIN. VAR WID ROW)

DRAIN "EA"

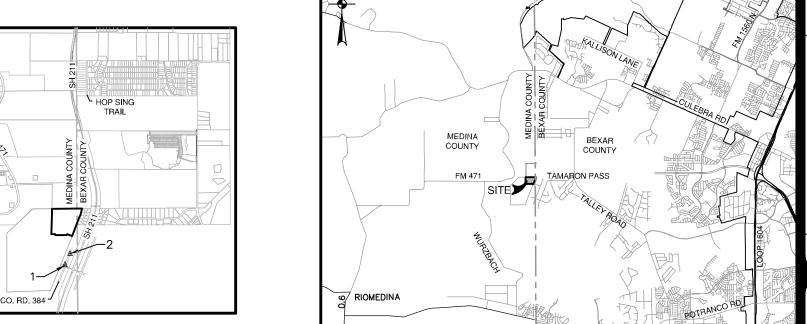
SEE SHEET C1.02

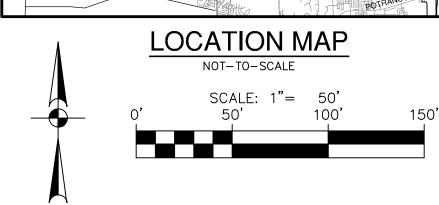
__ 20' BUILDING SETBACK

-10' GETCTV EASEMENT



BENCHMARK LOCATION MAP NOT-TO-SCALE





SEWER LEGEND

PROJECT LIMITS

EXISTING WATER

EXISTING SEWER

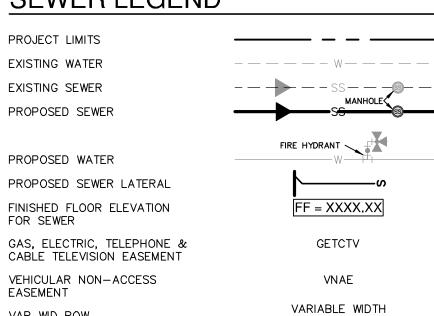
PROPOSED SEWER

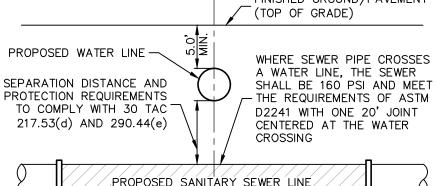
PROPOSED WATER

FOR SEWER

EASEMENT

VAR WID ROW







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 THE 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

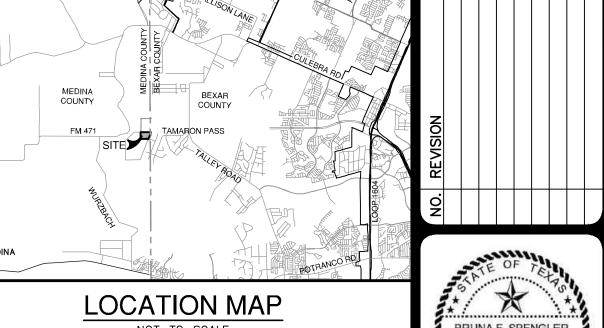
- EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT CONDITIONS FOR FOUND SEWER SERVICES AND ACTUA LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY T DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER SERVICE ELEVATIONS.
- 2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPOL 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 BEXAF COUNTY RIGHTS-OF-WAY.

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

SEWER (MEDIO CREEK)

	DEVELOPER'S NAME: JEN TEXAS 26, LLC	ı
	ADDRESS: 8023 VANTAGE DRIVE, STE. 220	ı
	CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230	ı
	PHONE# <u>(210)849–1447</u> FAX#	
	SAWS BLOCK MAP# 060594 TOTAL EDU'S 117 TOTAL ACREAGE 33.50	
	TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469	ı
	NUMBER OF LOTS 117 SAWS JOB NO. XX-XXXX	
- 11		1





PLAT NO. **23-1180046**

JOB NO. 12285-02 DATE FEBRUARY 2024

CHECKED BS DRAWN FP

DESIGNER

RIGH-OF-WAY FINISHED GROUND/PAVEMENT

PROPOSED SANITARY SEWER LINE

THESE PLANS OR NOT.

FINISHED FLOOR NOTES:

- 1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO

ROW PERMIT NOTE:

TRENCH EXCAVATION SAFETY PROTECTION:

DEVELOPER'S NAME: <u>JEN TEXAS 26, LLC</u>
ADDRESS: 8023 VANTAGE DRIVE, STE. 220
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230
PHONE# <u>(210)849–1447</u> FAX#
SAWS BLOCK MAP# <u>060594</u> TOTAL EDU'S <u>117</u> TOTAL ACREAGE <u>33.50</u>
TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC_PLAT NO. 23-11800469
NUMBER OF LOTS 117 SAWS JOB NO. XX-XXXX

EASEMENT SET TO EXPIRE INTO FUTURE PLATTED

PUBLIC STREET ROW

218.867 ACRES

JEN TEXAS 26 LLC DOC. 2021005119, ORMC

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PORTION OF 181.6669 ACRES GARY W. STEIN

VOLUME 2, PAGE 181

EX M.H. "A-18" STA: 61+37.12

1' VNAE -

STA. 63+06

SAWS JOB# 24-1507

14' GETCTV EASEMENT -

WATER/SEWER CROSSING

SEE DETAIL ON THIS SHEET

SEWER/DRAIN CROSSING

DRAINAGE EASEMENT

- 150' WIDE ELECTRIC EASEMENT -

CITY PUBLIC SERVICE BOARD OF

VOLUME 571, PAGE 1063, ORMC

EXISTING DRAIN "D'

DRAINAGE EASEMENT

218.867 ACRES

JEN TEXAS 26 LLC

10' GETCTV EASEMENT -

1' VNAE —

1' VNAE -

10' GETCTV EASEMENT -

BLOCK X

CB XXXX

50'X60' SANITARY SEWER, WATER, -

ELECTRIC, GAS, TELEPHONE, CABLE

TELEVISION AND PUBLIC DRAINAGE

PUBLIC STREET RIGHT-OF-WAY.

INCORPORATION INTO FUTURE PLATTED

EASEMENT TO EXPIRE UPON

VARIABLE WIDTH

(PLAT# 23-11800449) 14' GETCTV EASEMENT

- 14' GETCTV EASEMENT

LINE "B" 2+00

CAUTION!

_STA. 1+30

TWATER/SEWER CROSSING

-10' GETCTV EASEMENT

CAUTION!

MATCHLINE SEE SHEET C4.02

ISTA, 66+54

WATER/SEWER CROSSING

SEE DÉTAIL ON THIS SHEET

-10' BUILDING SETBACK,

10' GETCTV EASEMENT

SEE DÉTAIL ON THIS SHEET

STA: 63+31.12 LINE "A'

STA: 1+00.00 LINE "B'

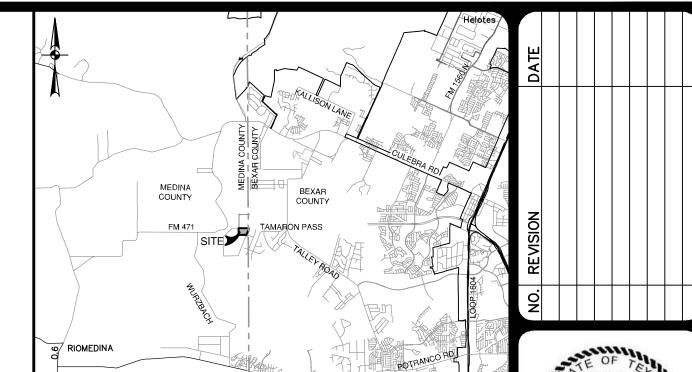
10' GETCTV EASEMENT

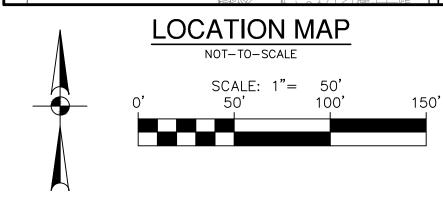
- 20' BUILDING SETBACK

BLOCK X

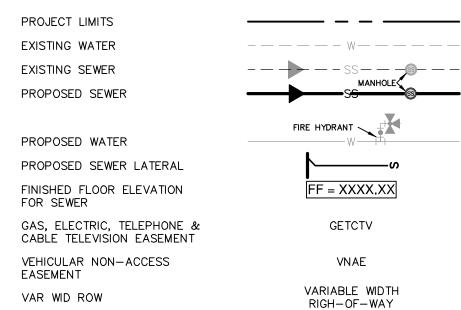
CB XXXX

278.36 L.F.~8" PIPE





SEWER LEGEND



FINISHED GROUND/PAVEMENT (TOP OF GRADE) PROPOSED WATER LINE

SEPARATION DISTANCE AND PROTECTION REQUIREMENTS TO COMPLY WITH 30 TAC 217.53(d) AND 290.44(e)

WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE 20' JOINT CENTERED AT THE WATER CROSSING

PROPOSED SANITARY SEWER LINE TYPICAL SANITARY

CAUTION!!

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

NOT-TO-SCALE

FINISHED FLOOR NOTES:

- THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE TO BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT CONDITIONS FOR FOUND SEWER SERVICES AND ACTUA LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER SERVICE ELEVATIONS.
- 2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPOL THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNHILL SIDES OF THE PROPOSED ROADWAYS.

ROW PERMIT NOTE:

A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY RIGHTS-OF-WAY.

TRENCH EXCAVATION SAFETY PROTECTION:

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

SEWER (MEDIO CREEK)

DEVELOPER'S NAME: <u>JEN TEXAS 26, LLC</u>	Ш
ADDRESS: 8023 VANTAGE DRIVE, STE. 220	Ш
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230	Ш
PHONE# <u>(210)849–1447</u> FAX#	Ш
SAWS BLOCK MAP# 060594 TOTAL EDU'S 117 TOTAL ACREAGE 33.50	Ш
TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469	Ш
NUMBER OF LOTS 117 SAWS JOB NO. XX-XXXX	
	ADDRESS: 8023 VANTAGE DRIVE, STE. 220 CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230 PHONE# (210)849-1447 FAX# SAWS BLOCK MAP# 060594 TOTAL EDU'S 117 TOTAL ACREAGE 33.50 TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469

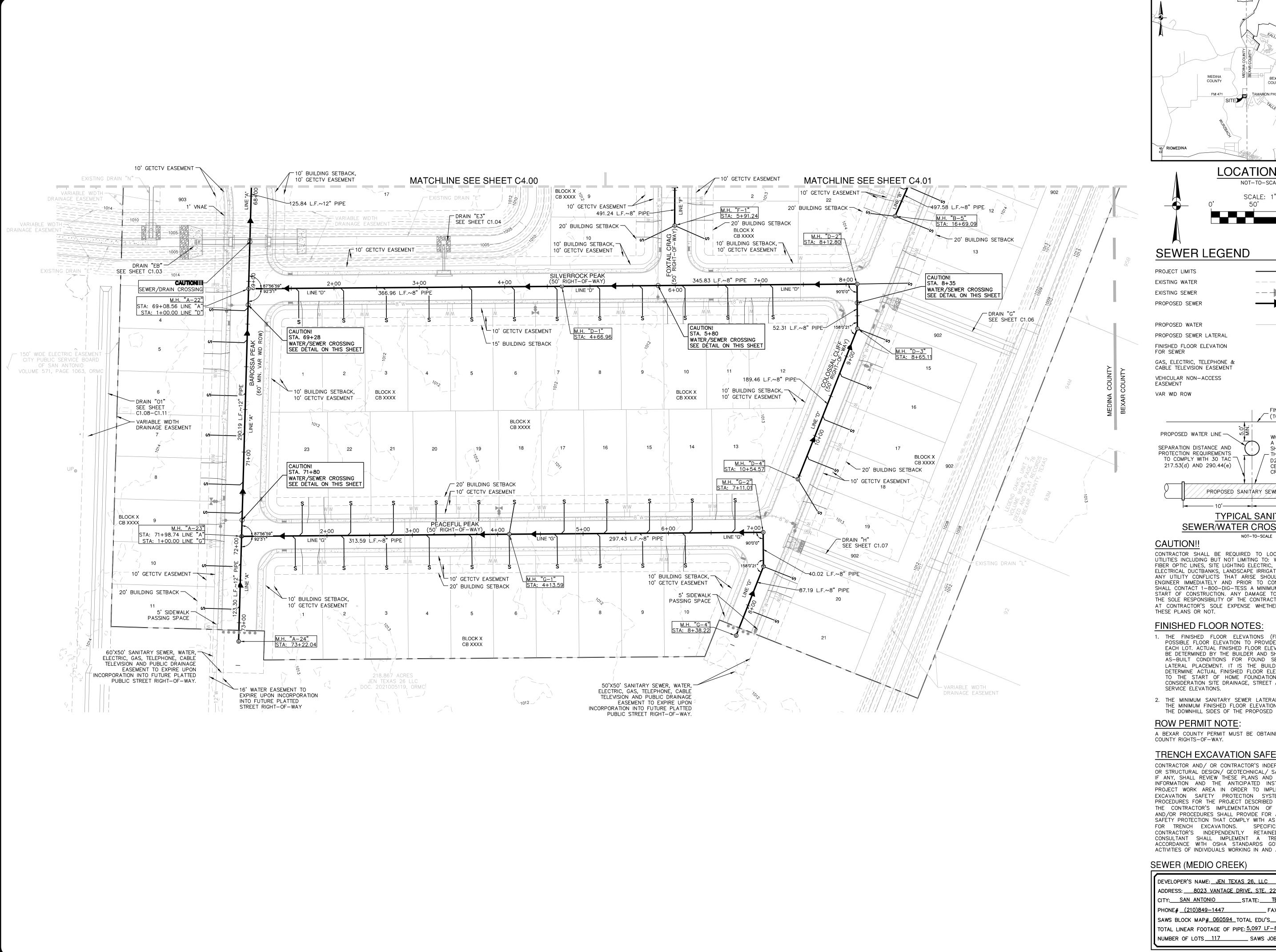
BRUNA F. SPENGLER

Duna Opengler

_AT NO. **23-1180046**9 JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER

CHECKED BS DRAWN FP

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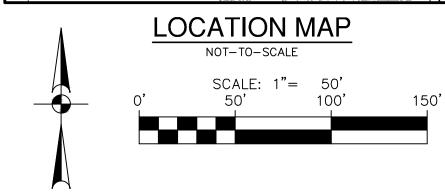


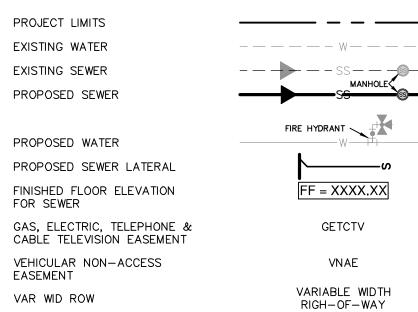
5 DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE® UNLESS OTHERWISE NOTED. Imagery © 2016,CAPCOG,Digital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

BRUNA F. SPENGLER

127547

Duna Opengler





FINISHED GROUND/PAVEMENT (TOP OF GRADE) WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE 20' JOINT CENTERED AT THE WATER CROSSING

PROPOSED SANITARY SEWER LINE

TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

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

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A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAF

TRENCH EXCAVATION SAFETY PROTECTION:

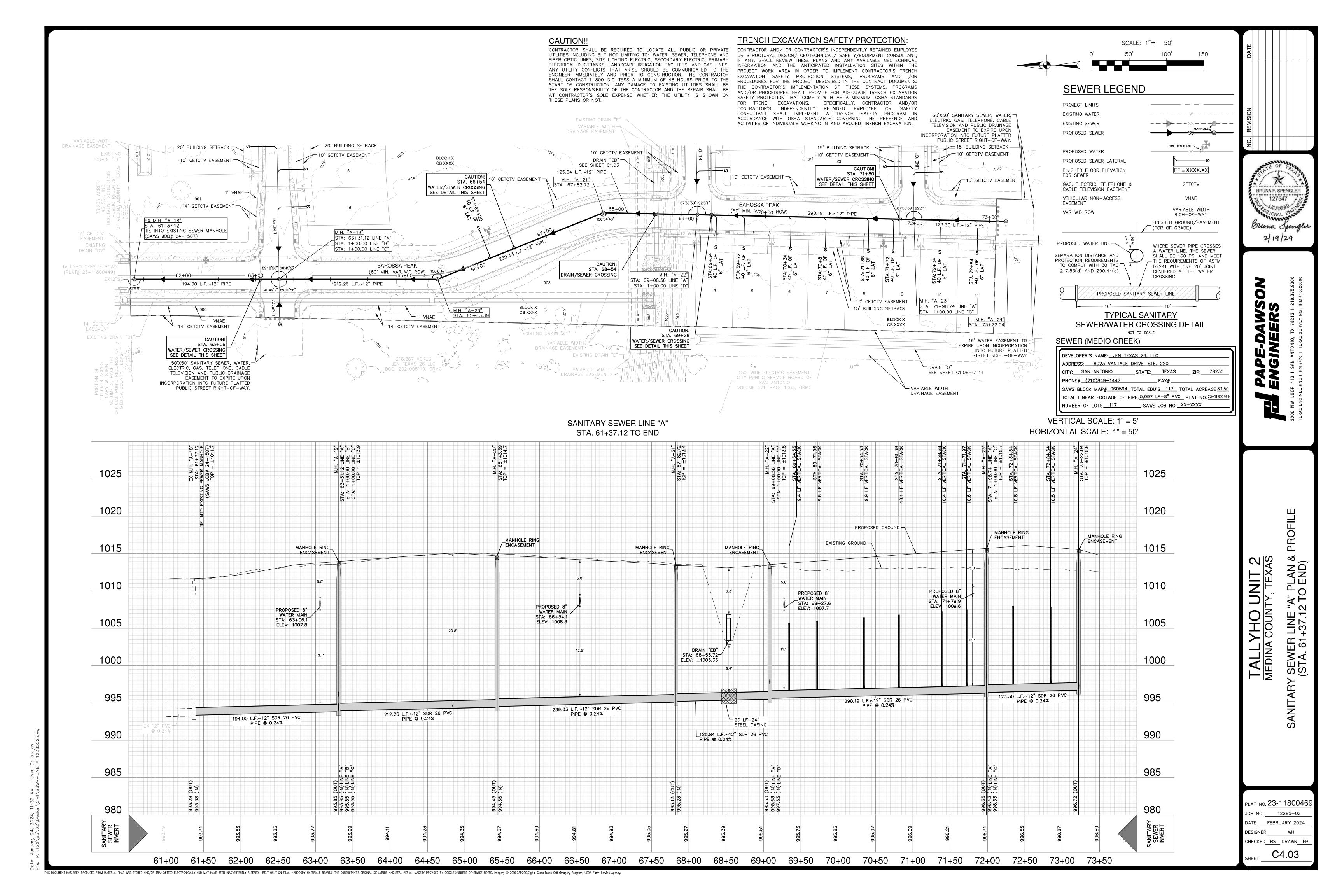
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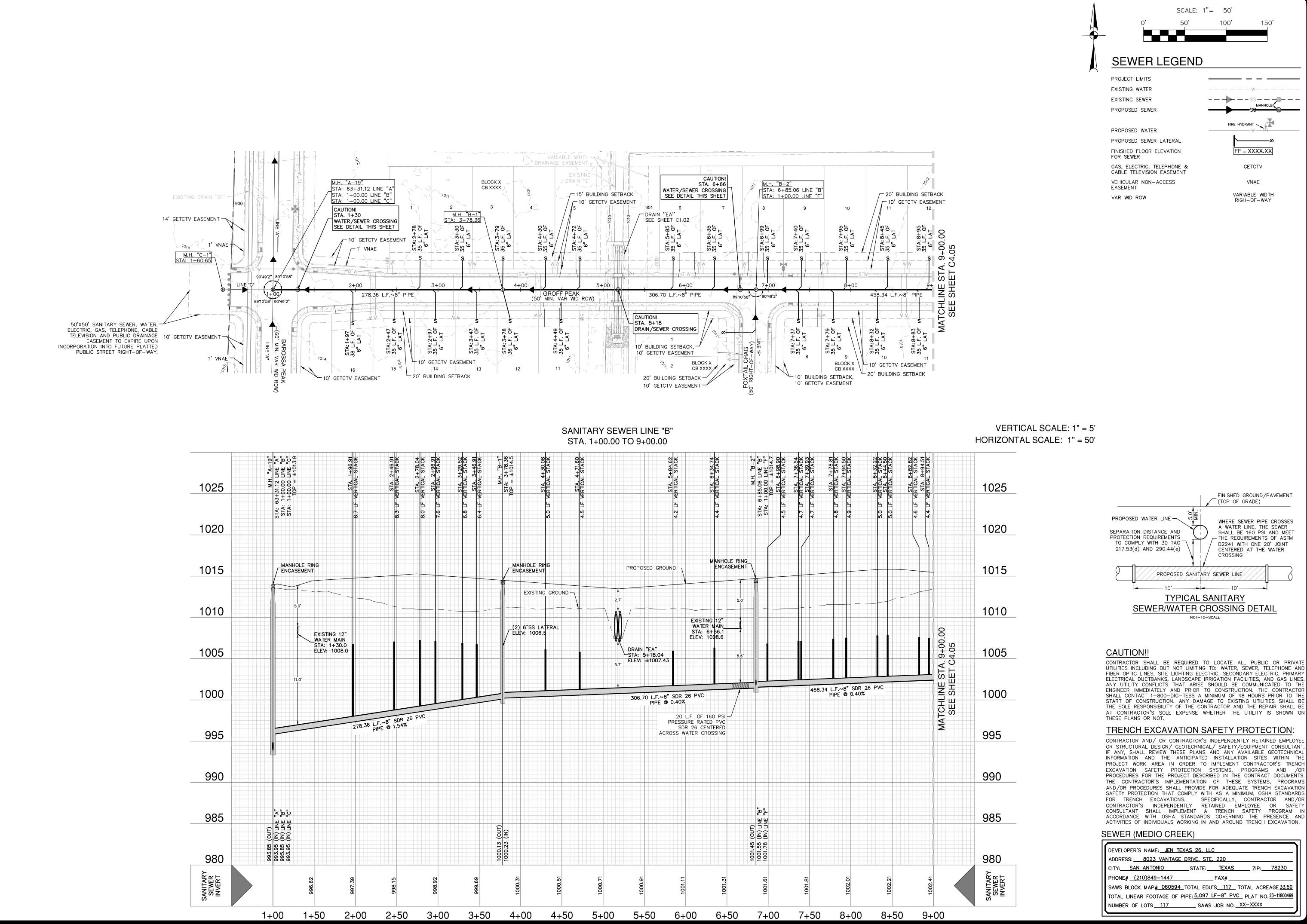
DEVELOPEN S NAME. DEN TEXAS 20; LEG	
ADDRESS: 8023 VANTAGE DRIVE, STE. 220	Ш
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230	Ш
PHONE# <u>(210)849–1447</u> FAX#	II
SAWS BLOCK MAP# 060594 TOTAL EDU'S 117 TOTAL ACREAGE 33.50	II
TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469	Ш
NUMBER OF LOTS 117 SAWS JOB NO. XX-XXXX	Ш

_AT NO. **23-1180046**

DATE FEBRUARY 2024 DESIGNER CHECKED BS DRAWN FP

JOB NO. 12285-02





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SCALE: 1"= 50' 150' FIRE HYDRANT

FINISHED GROUND/PAVEMENT

WHERE SEWER PIPE CROSSES

A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET

D2241 WITH ONE 20' JOINT

CENTERED AT THE WATER

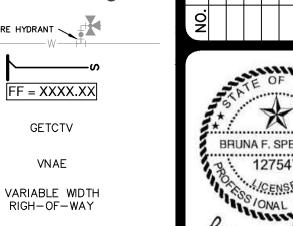
THE REQUIREMENTS OF ASTM

(TOP OF GRADE)

CROSSING

___ SAWS JOB NO. XX-XXXX

NOT-TO-SCALE

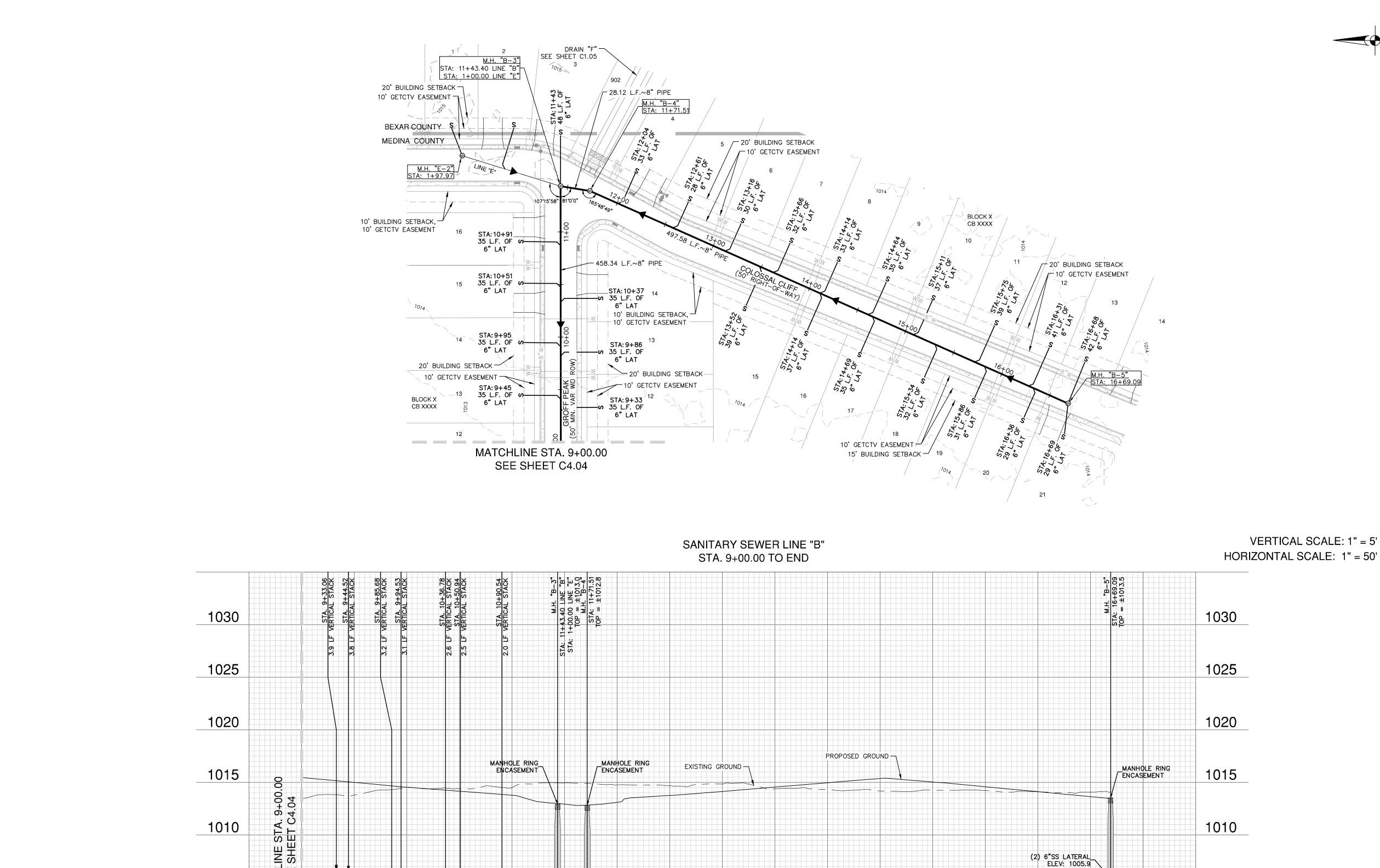


BRUNA F. SPENGLER

-Р 9 1 B

PLAT NO. 23-1180046 12285-02 DATE FEBRUARY 2024

DESIGNER CHECKED BS DRAWN FP



SCALE: 1"= 50'

SEWER LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER

PROPOSED WATER

FOR SEWER

FIRE HYDRANT FF = XXXX.XX GETCTV

PROPOSED SEWER LATERAL FINISHED FLOOR ELEVATION GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT

VEHICULAR NON-ACCESS EASEMENT VNAE VARIABLE WIDTH VAR WID ROW RIGH-OF-WAY



FINISHED GROUND/PAVEMENT

WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET

THE REQUIREMENTS OF ASTM

D2241 WITH ONE 20' JOINT CENTERED AT THE WATER

(TOP OF GRADE)

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 THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL B

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

SEWER (MEDIO CREEK)

NUMBER OF LOTS <u>117</u>

PROPOSED WATER LINE -

SEPARATION DISTANCE AND PROTECTION REQUIREMENTS

CAUTION!!

1005

1000

TO COMPLY WITH 30 TAC

217.53(d) AND 290.44(e)

DEVELOPER'S NAME: <u>JEN TEXAS 26, LLC</u>
ADDRESS: 8023 VANTAGE DRIVE, STE. 220
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230
PHONE# <u>(210)849–1447</u> FAX#
SAWS BLOCK MAP# 060594 TOTAL EDU'S 117 TOTAL ACREAGE 33.50
TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469

_ SAWS JOB NO. XX-XXXX

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

> PLAT NO. **23-1180046** JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER CHECKED BS DRAWN FP

9+50 10+00 10+50 11+00 11+50 12+00 12+50 13+00 13+50 14+00 14+50 15+00 15+50 16+00 16+50 17+00 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.

1005

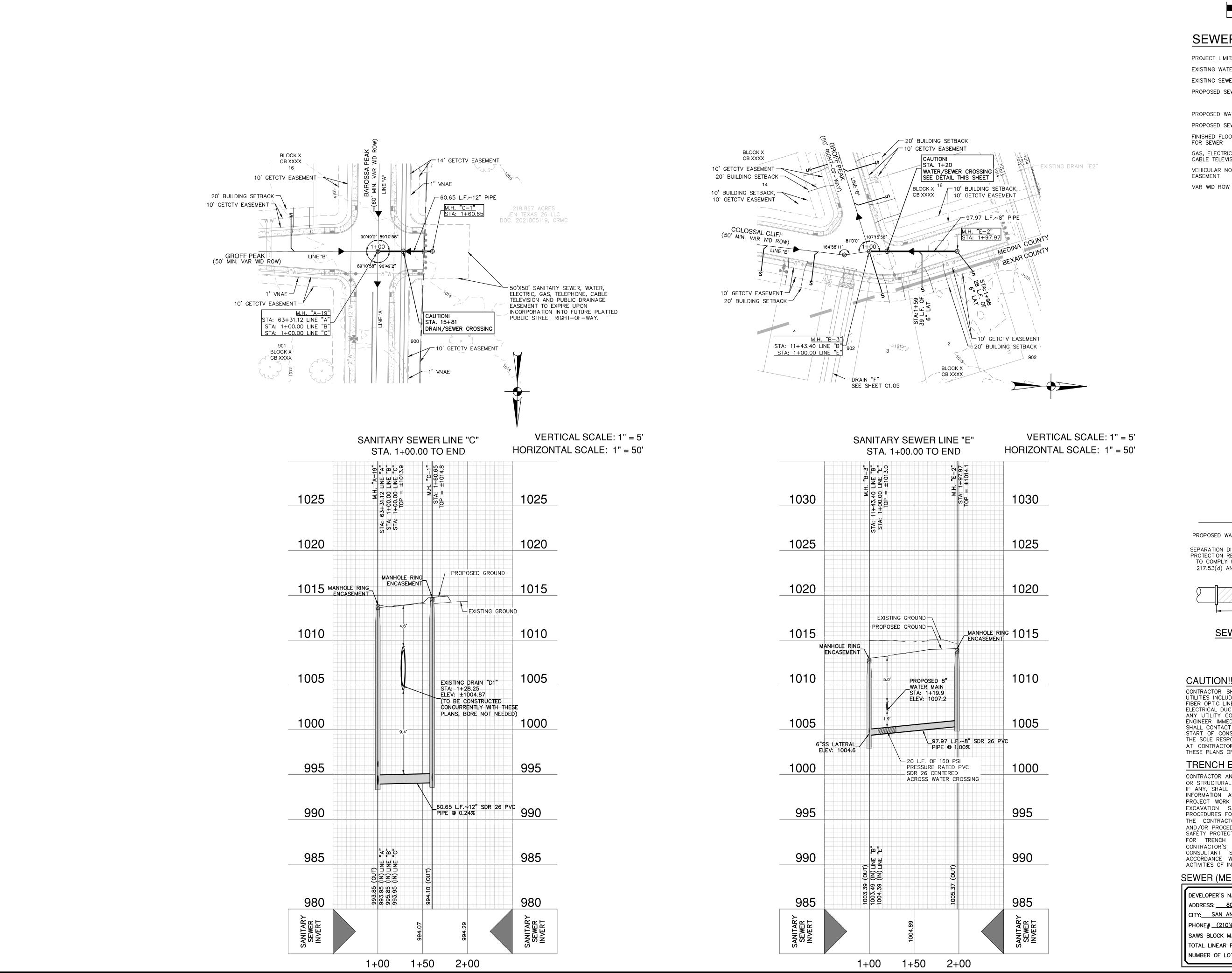
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SANITAR' SEWER INVERT

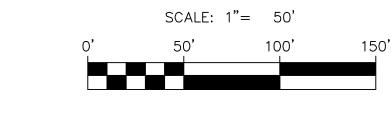
_28.12 L.F.~8" SDR 26 PVC

458.34 L.F.~8" SDR 26 PVC PIPE @ 0.40% 6"SS LATERAL_ ELEV: 1004.6 PIPE @ 0.40%

497.58 L.F.~8" SDR 26 PVC PIPE @ 0.40%



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SEWER LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER

PROPOSED WATER

FOR SEWER

VAR WID ROW

PROPOSED SEWER LATERAL FINISHED FLOOR ELEVATION

VEHICULAR NON-ACCESS EASEMENT

FIRE HYDRANT FF = XXXX.XX **GETCTV** VNAE

RIGH-OF-WAY

GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT VARIABLE WIDTH



ND)

 \Box

1+00.00

PROFILE PROFILE

LINE

SANITARY SEWER SANITARY SEWER

ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES.
ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE
ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL E AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN C

FINISHED GROUND/PAVEMENT

WHERE SEWER PIPE CROSSES

A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET

D2241 WITH ONE 20' JOINT CENTERED AT THE WATER

THE REQUIREMENTS OF ASTM

(TOP OF GRADE)

CROSSING

TRENCH EXCAVATION SAFETY PROTECTION:

PROPOSED SANITARY SEWER LINE

TYPICAL SANITARY

SEWER/WATER CROSSING DETAIL

NOT-TO-SCALE

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVAT

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FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY

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SEWER (MEDIO CREEK)

DEVELOPER'S NAME: JEN TEXAS 26, LLC

THESE PLANS OR NOT.

PROPOSED WATER LINE -

SEPARATION DISTANCE AND PROTECTION REQUIREMENTS

TO COMPLY WITH 30 TAC

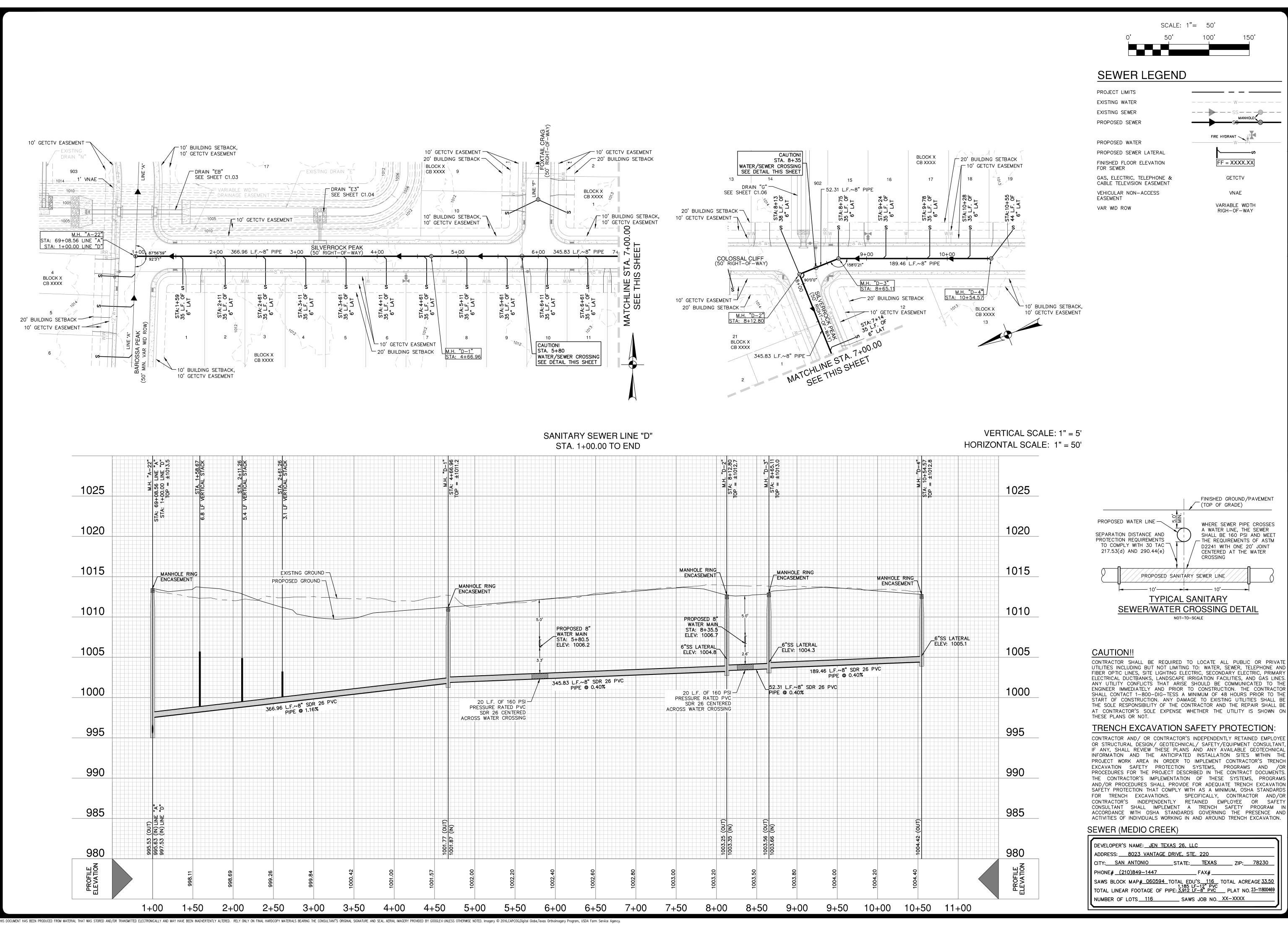
217.53(d) AND 290.44(e)

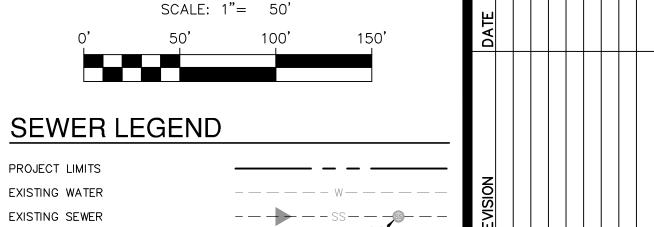
ADDRESS: 8023 VANTAGE DRIVE, STE. 220	
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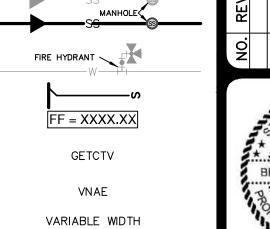
ат no. **23-1180046**9 JOB NO. 12285-02 DATE FEBRUARY 2024

DESIGNER

CHECKED BS DRAWN FP C4.06







RIGH-OF-WAY

FINISHED GROUND/PAVEMENT

WHERE SEWER PIPE CROSSES

A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET

THE REQUIREMENTS OF ASTM

D2241 WITH ONE 20' JOINT

CENTERED AT THE WATER

(TOP OF GRADE)

CROSSING

_ SAWS JOB NO. XX-XXXX

PROPOSED SANITARY SEWER LINE

TYPICAL SANITARY

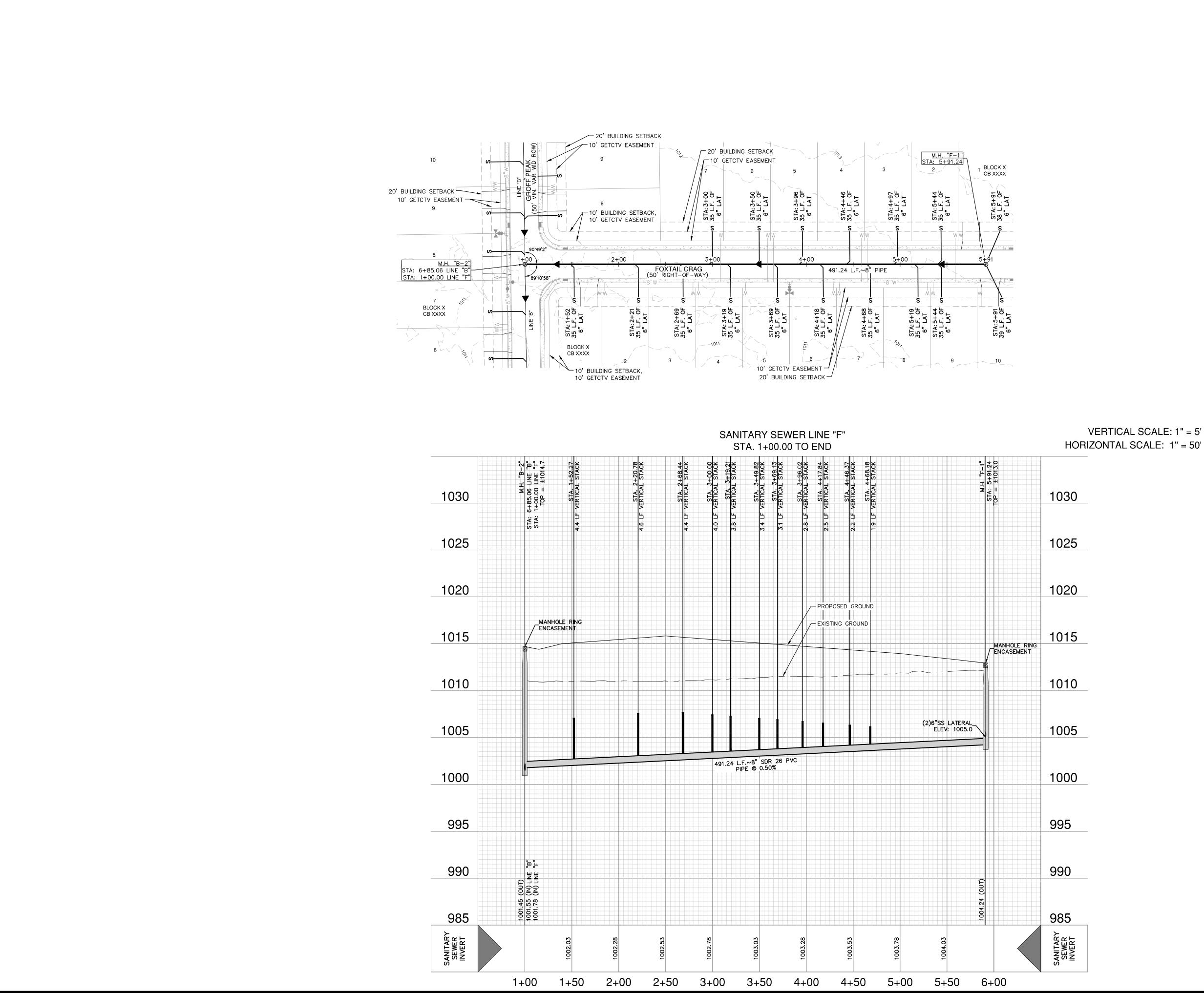
NOT-TO-SCALE

BRUNA F. SPENGLER

TALL

PLAT NO. **23-1180046** 12285-02 DATE FEBRUARY 2024 DESIGNER

CHECKED BS DRAWN FP



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SEWER LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER

FIRE HYDRANT FF = XXXX.XX

PROPOSED WATER PROPOSED SEWER LATERAL FINISHED FLOOR ELEVATION FOR SEWER

GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT VEHICULAR NON-ACCESS EASEMENT VAR WID ROW

GETCTV VNAE VARIABLE WIDTH RIGH-OF-WAY

BRUNA F. SPENGLER

ROFII

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

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SEWER (MEDIO CREEK)

DEVELOPER'S NAME: <u>JEN TEXAS 26, LLC</u>

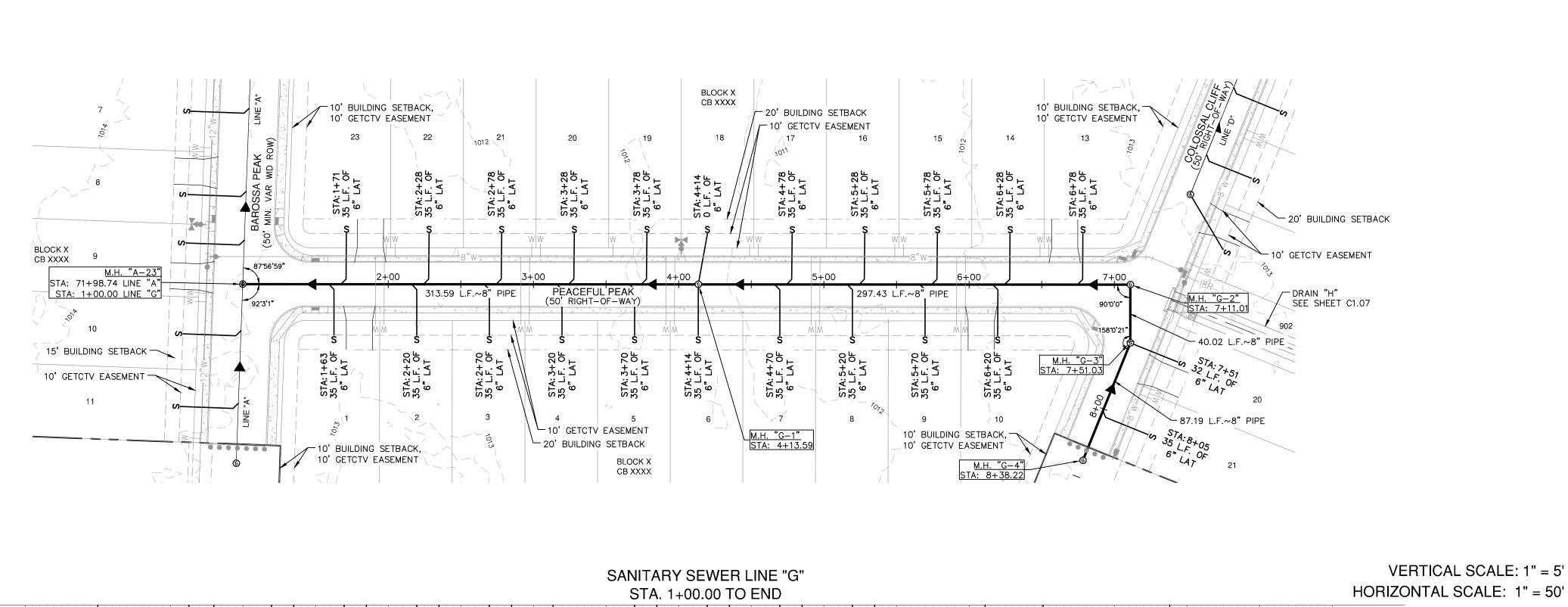
ADDRESS: 8023 VANTAGE DRIVE, STE, 220 CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230 PHONE# (210)849-1447 SAWS BLOCK MAP# 060594 TOTAL EDU'S 117 TOTAL ACREAGE 33.50 TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469 NUMBER OF LOTS 117 __ SAWS JOB NO. XX-XXXX

PLAT NO. 23-11800469 JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER

TALL

C4.08

CHECKED BS DRAWN FP



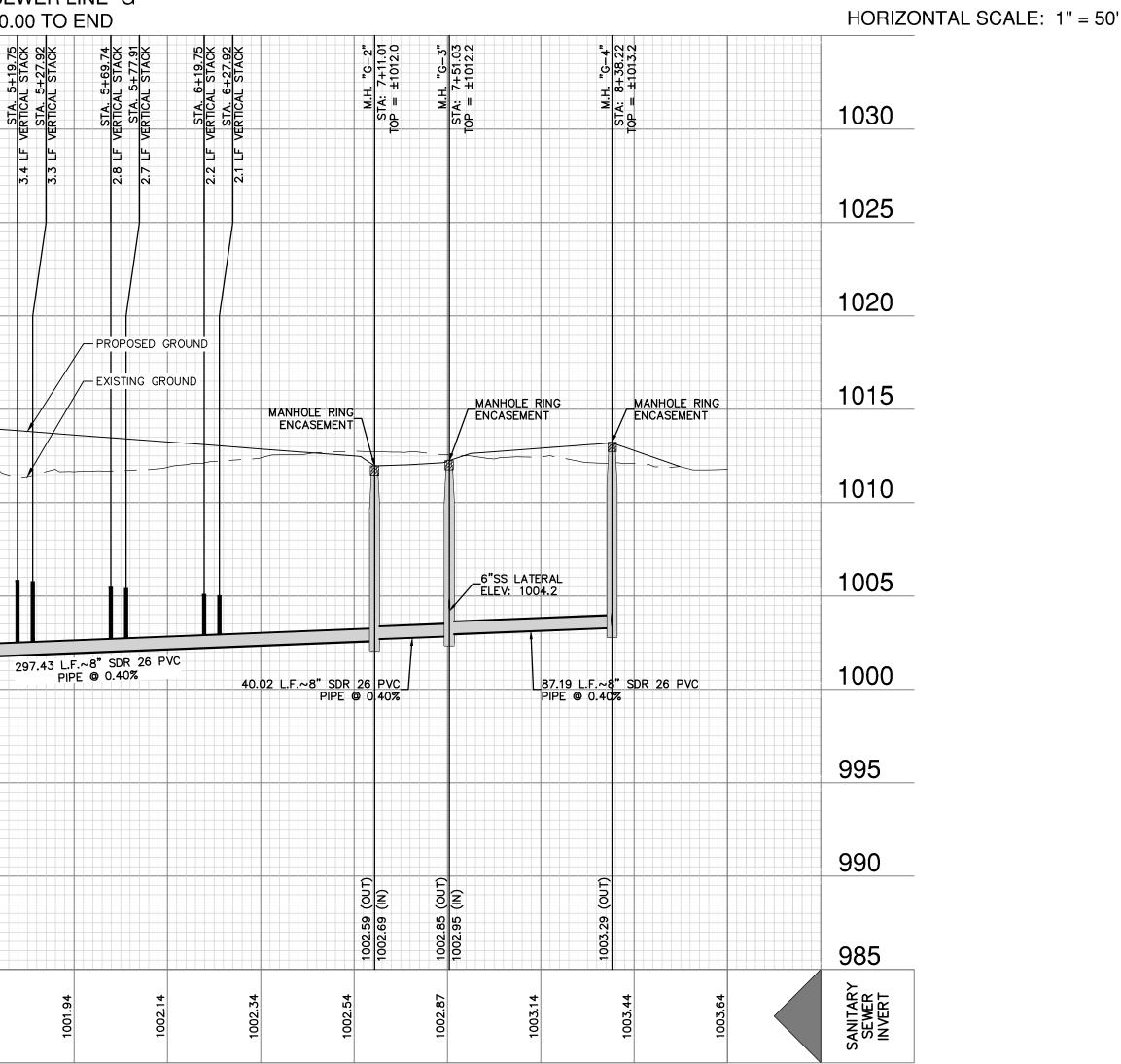
A. 4+69.74 CAL STACK A. 4+77.91 CAL STACK

MANHOLE RING

ENCASEMENT.

_(2)6"SS LATERAL / ELEV: 1006.6

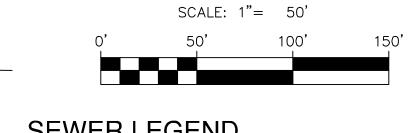
δ. 6



8+00

8+50

9+00



SEWER LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER

PROPOSED WATER

FIRE HYDRANT PROPOSED SEWER LATERAL FF = XXXX.XX FINISHED FLOOR ELEVATION **GETCTV**

VNAE

VARIABLE WIDTH

RIGH-OF-WAY

FOR SEWER GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT VEHICULAR NON-ACCESS EASEMENT VAR WID ROW

BRUNA F. SPENGLER

FINISHED GROUND/PAVEMENT WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM

TALL

PROPOSED SANITARY SEWER LINE TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

NOT-TO-SCALE

(TOP OF GRADE)

CROSSING

D2241 WITH ONE 20' JOINT CENTERED AT THE WATER

CAUTION!!

PROPOSED WATER LINE -

SEPARATION DISTANCE AND PROTECTION REQUIREMENTS

TO COMPLY WITH 30 TAC

217.53(d) AND 290.44(e)

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVAT UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL B AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN C 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 THE 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 II ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER (MEDIO CREEK)

DEVELOPER'S NAME: <u>JEN TEXAS 26, LLC</u> ADDRESS: 8023 VANTAGE DRIVE, STE. 220 CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230 PHONE# (210)849-1447 SAWS BLOCK MAP# 060594 TOTAL EDU'S 117 TOTAL ACREAGE 33.50 TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469

NUMBER OF LOTS <u>117</u> SAWS JOB NO. XX-XXXX

PLAT NO. 23-11800469 JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER CHECKED BS DRAWN FP

"G" |

C4.09

1+50 2+00 2+50 3+00 3+50 4+00 4+50 5+00 5+50 6+00 6+50 7+00 7+50 5 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.

996.33 (OUT) 996.43 (IN) LINE 998.33 (IN) LINE

MANHOLE RING / ENCASEMENT

313.59 L.F.~8" SDR 26 PVC PIPE @ 0.95%

1030

1025

1020

1015

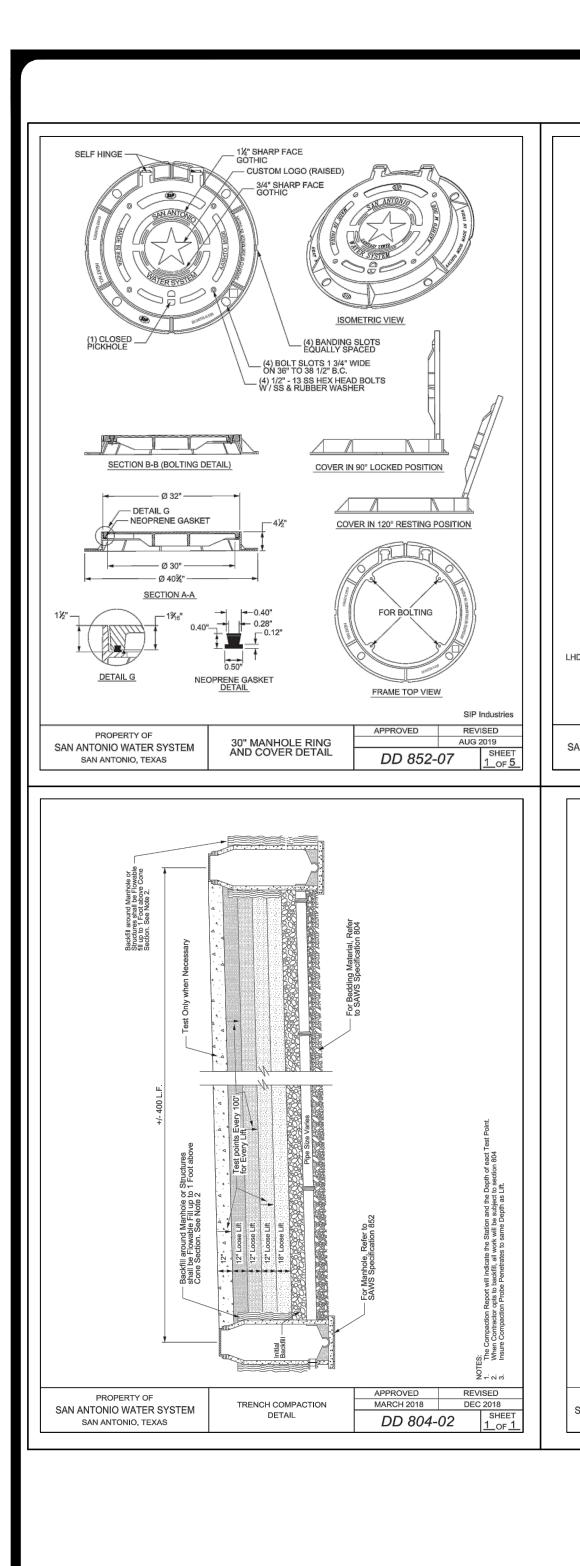
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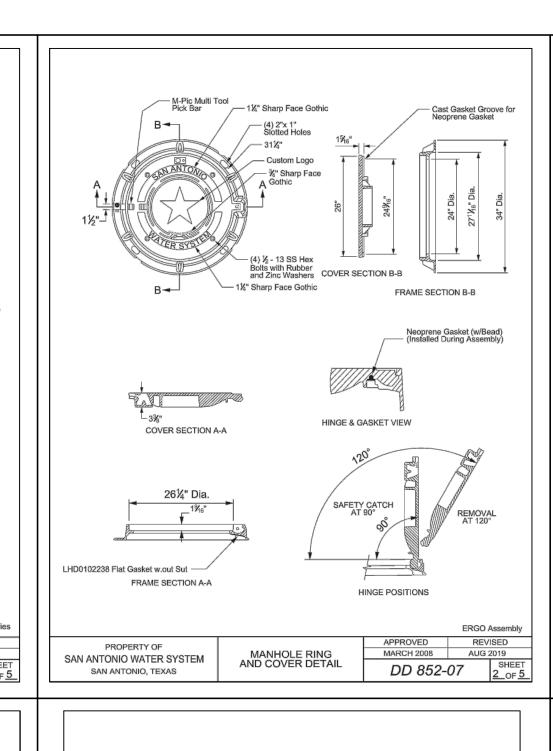
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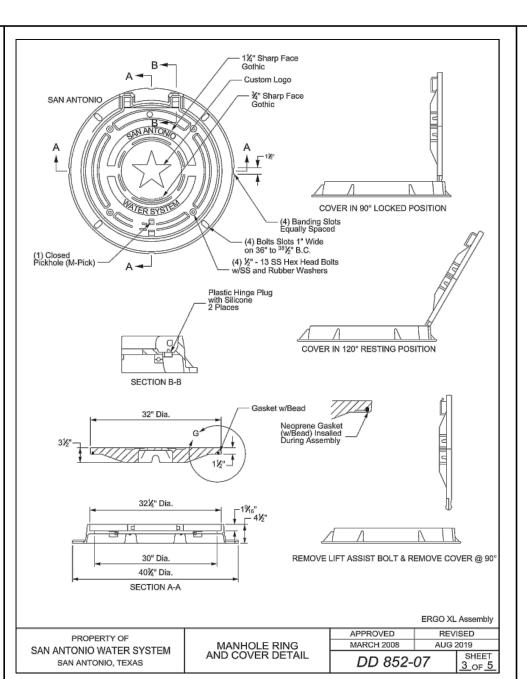
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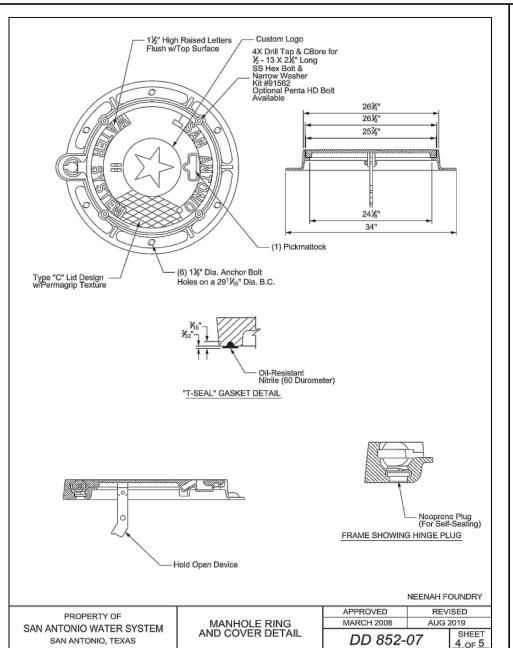
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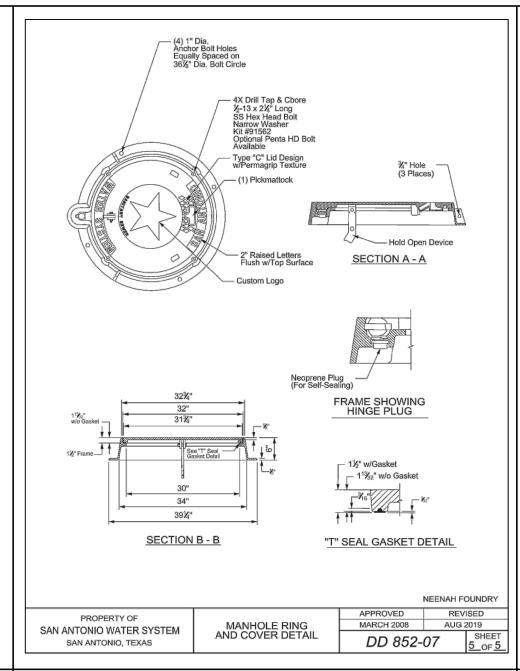
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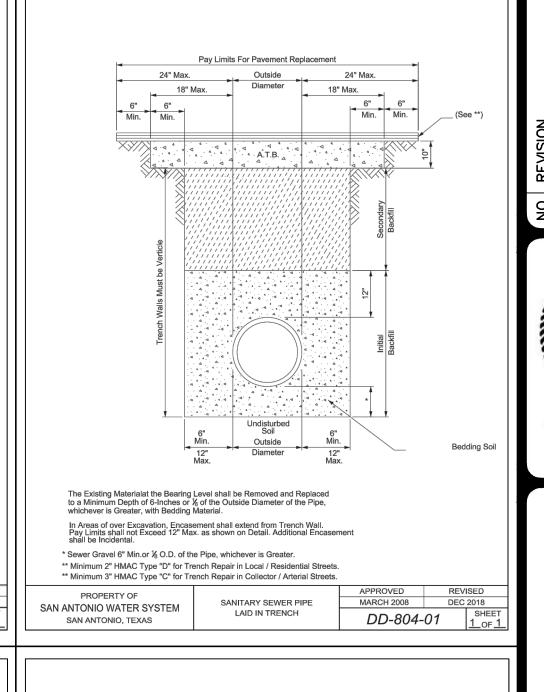


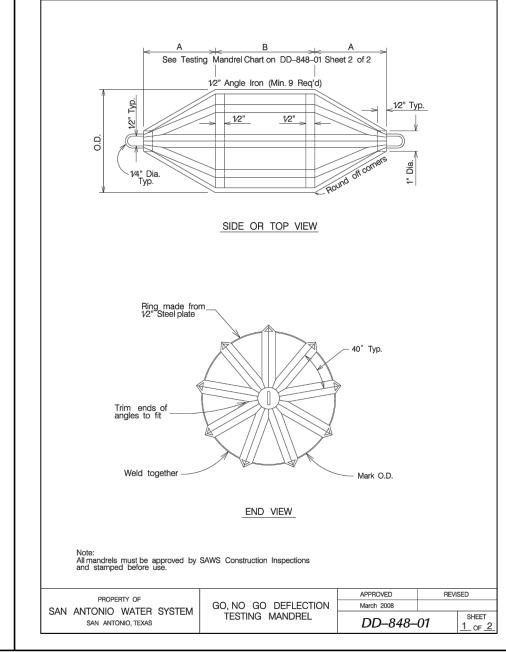


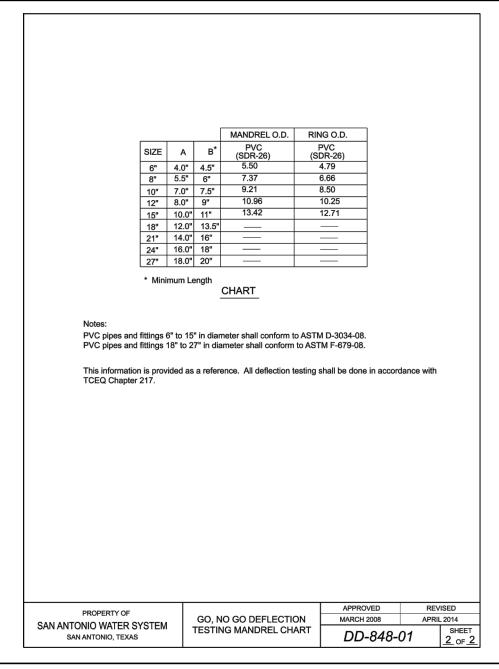


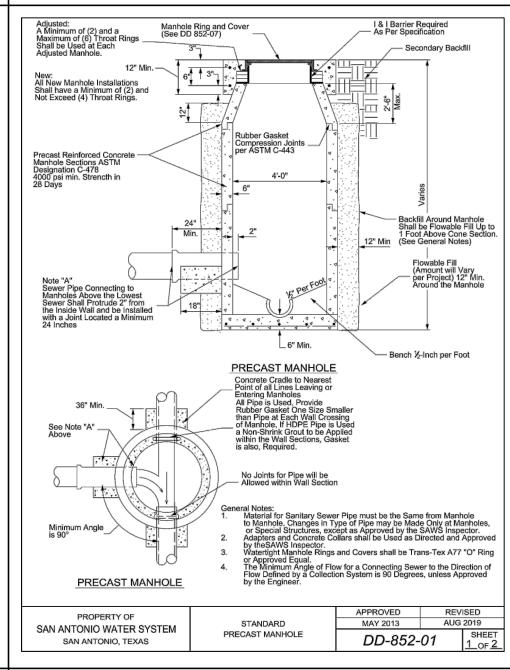


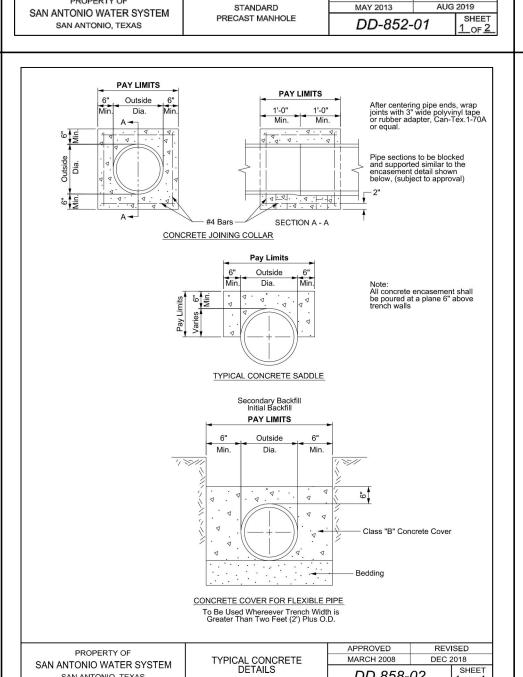
Concrete Grout ----





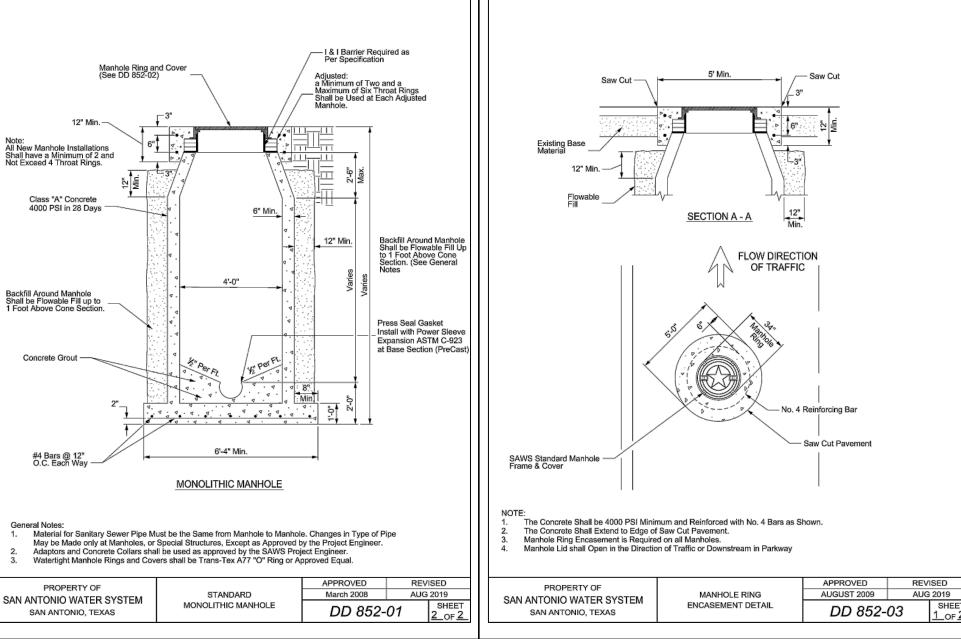






SAN ANTONIO, TEXAS

DD 858-02







BRUNA F. SPENGLER

127547

SEWER (MEDIO CREEK) DEVELOPER'S NAME: JEN TEXAS 26, LLC PLAT NO. 23-11800469 ADDRESS: 8023 VANTAGE DRIVE, STE. 220 12285-02 CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230 DATE FEBRUARY 2024 PHONE# (210)849-1447 FAX# ___ DESIGNER SAWS BLOCK MAP# 060594 TOTAL EDU'S 117 TOTAL ACREAGE 33.50 CHECKED BS DRAWN FP TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469 SHEET C4.10 NUMBER OF LOTS 117 SAWS JOB NO. XX-XXXX

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.

SAWS GENE 1. ALL MATERIALS CONTRACT SHALL COMPLY WITH TI FOLLOWING AS A A. CURRENT TE CRITERIA FO CODE (TAC) WATER", TAC B. CURRENT TI HIGHWAYS, S C. CURRENT S WATER AND D. CURRENT CI WORKS CON: E. CURRENT CI	(UECM). 2. THE CONTRACTO THEY OBTAIN CONSTRUCTION FOR SAWS CONSTRUCT ARRANGED A MAREQUIREMENTS. COUNTER PERMAREPLACEMENT AT A THE CONTRACTO WEBSITE, HITP: NOTED WITHIN THE CONTRACTO INSPECTION DIVISOR (210) 233–2973 AFFECTED HOME BEGINNING ANY	5. LOCATION AND THE PLANS ARI DEPTHS MUST BE CONSTRUCTION. UTILITY SERVICE DURING CONSTRUCTOR AND DRAINAGE WHETHER SHOWN LOCATES REQUE FOLLOWING CONT SAWS UTILIT COSA DRAIN COSA TRAFF COSA TRAFF TEXAS STAT 7. THE CONTRACTOR CURBS, STREETS ORIGINAL OR BE	PROJECT'S CONS 8. ALL WORK IN TOUNTY RIGHT— CONSTRUCTION S 9. THE CONTRACTO GOVERNING MUNICATION TO THE CONTRACTO FLOOD PLAIN WIT 11. HOLIDAY WORK: SAWS RECOGNIZE CONSTWORKREQ® WEEKEND WORK: CONSTRUCTION DE REQUEST SHOULD	ANY AND ALL SA APPROVAL WILL 12. COMPACTION NO MEETING THE C PAYING FOR THE BE DONE AT ON SAWS INSPECTOF LIFT PER 400 LII AND FINALIZED E PROVIDING ALL N 13. A COPY OF ALL INSPECTION DIVIS

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)

ENERAL SECTION

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

/ORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION lacksquareN DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. HOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

L SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND MILL 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 CTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE O LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED ZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY ALL NECESSARY DOCUMENTED TEST RESULTS.
- ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION

SAWS SEWER NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE
- CONTRACTOR SHALL: A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT (210) 233-2014. PROVIDE
 - THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW. B.ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO. C.CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A
 - POSSIBLE CONTAMINATION OF WATERWAYS. D.CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE
 - COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS. E.CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.
 - F.MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.
 - SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA, TCEQ AND/OR ANY OTHER FEDERAL, STATE OR LOCAL AGENCIES.
 - NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ
- ACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION | 2. IF BYPASS PUMPING IS REQUIRED, THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".
 - PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
 - SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44(E)(4)(B). CONTRACTOR SHALL CENTER A 20' JOINT OF 160 PSI PRESSURÉ RATED PVC AT THE PROPOSED WATER CROSSING.
 - ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI)
 - 6. SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE SAWS INSPECTOR ASSIGNED TO THE COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP). THIS REQUIREMENT APPLIES TO EVERY SPILL, OVERFLOW, OR DISCHARGE RÉGARDLESS OF SIZE.
 - MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
 - ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

SPECIFIED BY THE ENGINEER.

- 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 C4.08
- . NO VERTICAL STACKS ALLOWED FOR ANY LOTS UNLESS OTHERWISE
- 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.
- B. 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.
- 1. CONCRETE RING ENCASEMENT TO BE INSTALLED ON ALL MANHOLES AND, WITHIN LIMITS OF PAVEMENT, BE INSTALLED TO THE TOP OF THE BASE LAYER WITH A MINIMUM OF 2" OF ASPHALT ON TOP OF THE RING ENCASEMENT.
- 12. MANHOLE OPENING INCREASED TO 30" AS PER TAC CHAPTER 217.55.
- 13. ALL SEWER PIPE LATERALS SHALL BE SDR 26 (CLASS 160) PVC PIPE.
- 14. IF THE GIVEN TOP OF MANHOLE ELEVATION DOES NOT AGREE ON ACTUAL GROUND SURFACE OR FINISH PAVEMENT, THE CONTRACTOR SHALL ADJUST ELEVATIONS SUCH THAT THE TOP OF MANHOLE SHALL BE 0.5' ABOVE EXISTING GROUND, OR FLUSH TO FINISH ASPHALT PAVEMENT.
- 15. ALL MANHOLES CONSTRUCTED OVER THE EDWARDS AQUIFER RECHARGE ZONE SHOULD BE WATERTIGHT.

SEWER (MEDIO CREEK)

NUMBER OF LOTS <u>117</u>

DEVELOPER'S NAME: <u>JEN TEXAS 26, LLC</u> ADDRESS: 8023 VANTAGE DRIVE, STE. 220 CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230 PHONE# <u>(210)849-1447</u> SAWS BLOCK MAP# 060594 TOTAL EDU'S 117 TOTAL ACREAGE 33.50

TOTAL LINEAR FOOTAGE OF PIPE: 5,097 LF-8" PVC PLAT NO. 23-11800469

____ SAWS JOB NO. XX-XXXX

PLAT NO. 23-1180046 12285-02 ATE FEBRUARY 2024 ESIGNER HECKED BS DRAWN FP

BRUNA F. SPENGLER

127547

CENSED.

- 150' WIDE ELECTRIC EASEMENT

VOLUME 571, PAGE 1063, ORMO

DRAINAGE EASEMENT

EXISTING DRAIN "N"

⊗±36 LF~12"

⊗±10 LF~12"

1-12" ⅓ BEND, M.J.

BLOCK X

1' VNAE

±35 LF~12" (C-900 PVC DR18)

10' GETCTV EASEMENT -

CB XXXX

(C-900 PVC DR18)

1-12" ⅓ BEND, M.J.

(C-900 PVC DR18)

-------3 LF~8" PVC PIPE _1_8" 1/8 BEND, M.J. 1-8" 1/8 BEND, M.J. 4-8" RETAINER GLAND

-12"X6" ANCHOR TEE, M.J.

1-6" VALVE BOX, COMPLETE

6" D.I. PIPE, CUT AND RESTRAIN

AS REQUIRED (SEE SAWS STD

1-6" GATE VALVE, M.J.

1-6" ¼ BEND, M.J. 1-STD. FIRE HYDRANT

DWG DD-834-01)

1-STD. FIRE HYDRANT ASSEMBLY

⊗±68 LF~12"

MATCHLINE SEE SHEET C5.02

(C-900 PVC DR18)

⊗±17 LF~12"

1−12" ½ BEND, M.J.

(C-900 PVC DR18)

1-12" 1/8 BEND, M.J.

WATER/SEWER CROSSING (SEE DETAIL ON SHEET C4.00)

I−12" ¼6 BEND, M.J.

- 10' BUILDING SETBACK,

10' GETCTV EASEMENT

⊠±10 LF~12"

CAUTION!!!

_(C-900 PVC DR18)

LOCATION MAP NOT-TO-SCALE SCALE: 1"= 50'

COUNTY

BRUNA F. SPENGLER 127547 Duna Jungler

WATER LEGEND

PROJECT LIMITS FIRE HYDRANT < EXISTING WATER EXISTING SEWER PROPOSED SEWER FIRE HYDRANT > PROPOSED WATER PROPOSED 3/4" SINGLE SERVICE WITH 5/8" METER SINGLE IRRIGATION SERVICE 34" SERVICE WITH 5%" METER JOINT RESTRAINT GAS, ELECTRIC, TELEPHONE & **GETCTV** CABLE TELEVISION EASEMENT VEHICULAR NON-ACCESS VNAE EASEMENT VARIABLE WIDTH VAR WID ROW RIGH-OF-WAY

FIRE FLOW NOTE:

901

±132 LF~8"

GROFF PEAK

BLOCK X

CB XXXX

TC

(50' MIN. VAR WID ROW)

(C900 PVC DR18)

IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT. THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING T BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SE FORTH BY THE CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

PRESSURE REDUCING VALVE NOTE:

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

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 985 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 985 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT. ON THE CUSTOMER'S SIDE OF THE METER. AN APPROVED TY PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF T CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSUR

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. 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.

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/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.

WATER (SAWS PRESSURE ZONE 1170)

DEVELOPER'S NAME: JEN 1	TEXAS 26, LLC	
ADDRESS: 8023 VANTAG	E DRIVE, STE. 220	
CITY: SAN ANTONIO	STATE:TEXAS	ZIP: <u>78230</u>
PHONE# <u>(210)849-1447</u>	FAX#	
SAWS BLOCK MAP# 060594		
TOTAL LINEAR FOOTAGE OF	2939 LF-12" PVC PIPE: 4480 LF-8" PVC	PLAT NO. 2 <u>3-1180046</u> 9
NUMBER OF LOTS 117	SAWS JOB NO22	2-XXXX

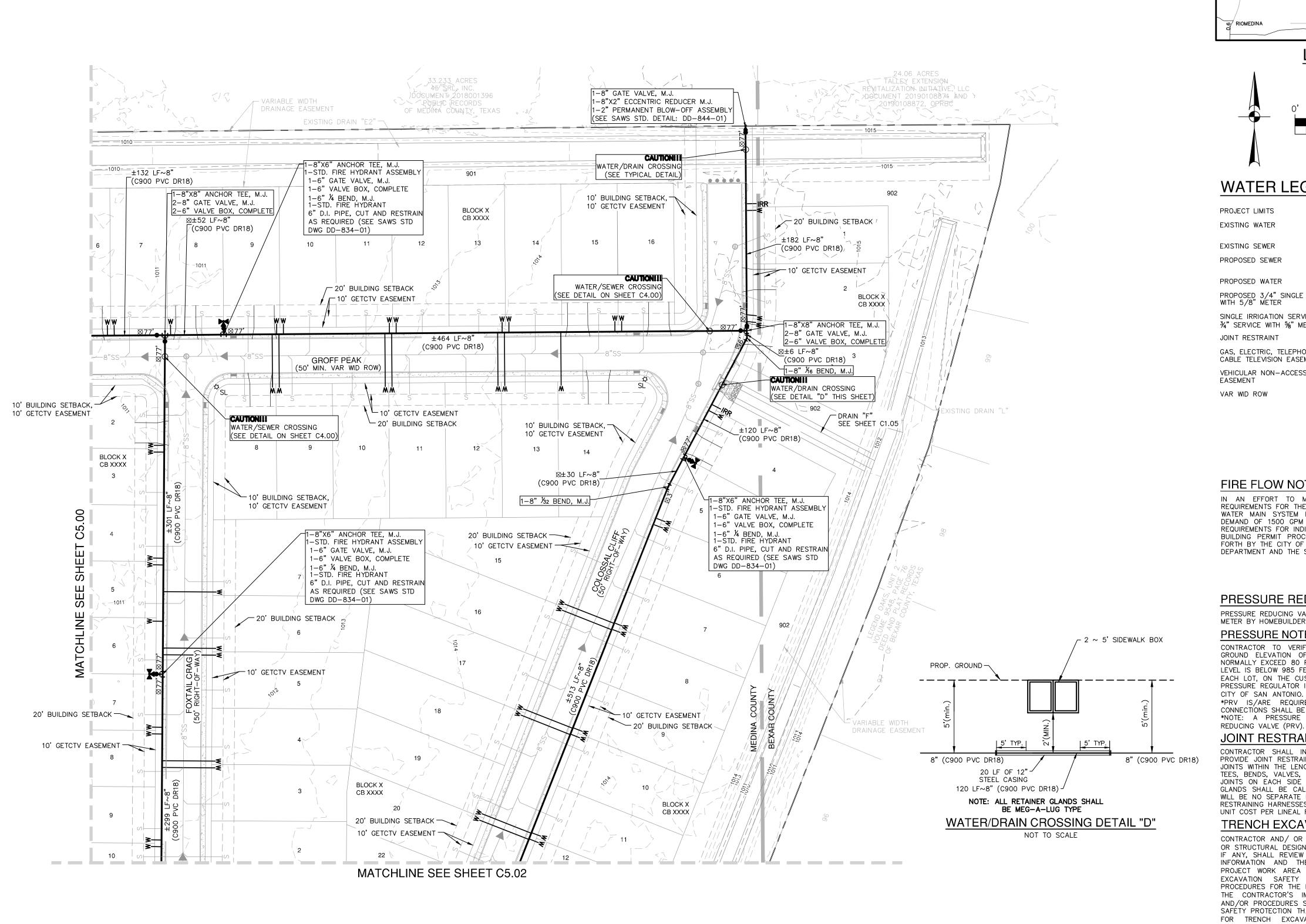
LAT NO. 23-1180046

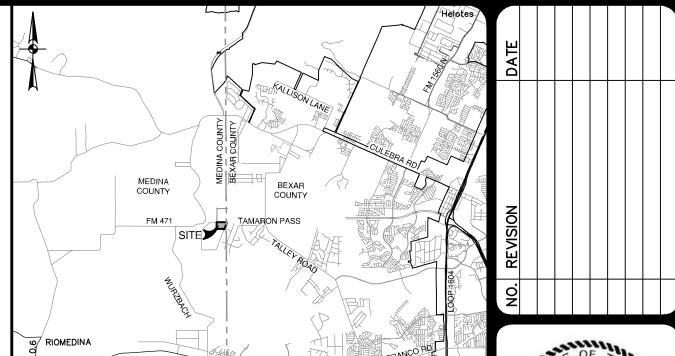
JOB NO. 12285-02 ATE FEBRUARY 2024

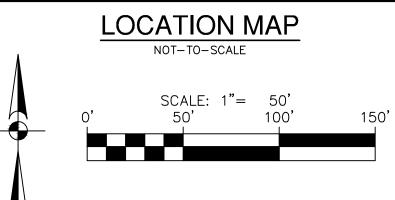
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DESIGNER

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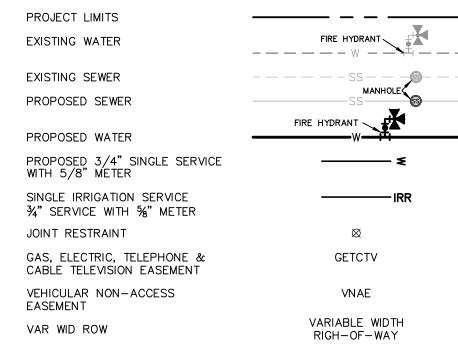






BRUNA F. SPENGLER

WATER LEGEND



FIRE FLOW NOTE:

IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING T BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SE FORTH BY THE CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

PRESSURE REDUCING VALVE NOTE:

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

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 985 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 985 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TY PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF 1 CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSUR

JOINT RESTRAINT NOTE:

CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINING HARNESSES OR FIELD LOCK GASKETS AT ALL JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT 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.

TRENCH EXCAVATION SAFETY PROTECTION:

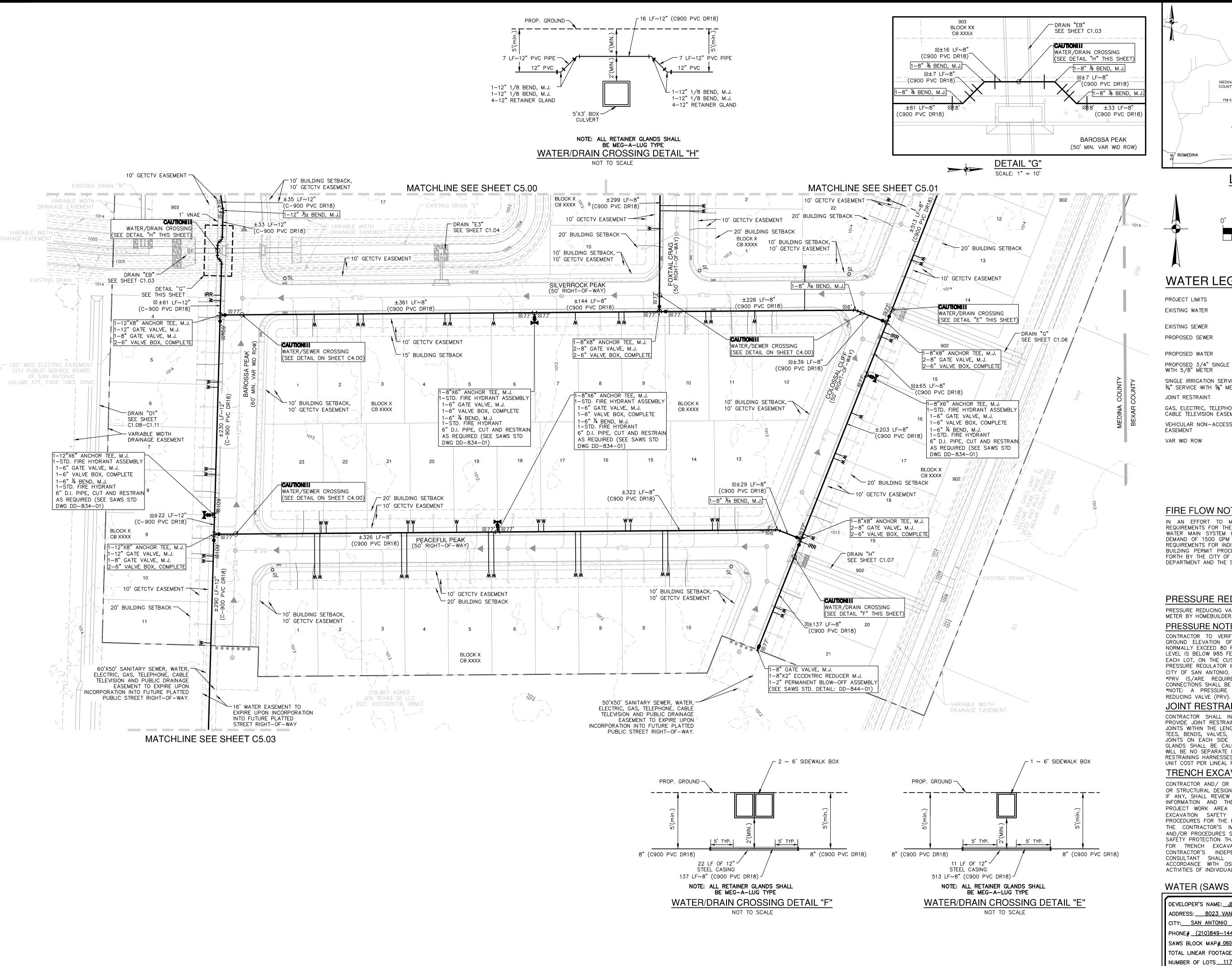
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WATER (SAWS PRESSURE ZONE 1170)

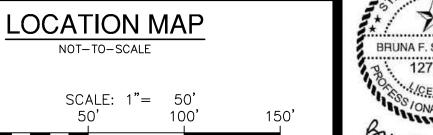
DEVELOPER'S NAME: <u>JEN TEXAS 26, LLC</u>	. [
ADDRESS: 8023 VANTAGE DRIVE, STE. 220	.
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230	.
PHONE# <u>(210)849-1447</u> FAX#	.
SAWS BLOCK MAP# 060594 TOTAL EDU'S 124 TOTAL ACREAGE 33.50	
2939 LF-12" PVC TOTAL LINEAR FOOTAGE OF PIPE: 4480 LF-8" PVC PLAT NO. 23-1180046	9
NUMBER OF LOTS 117 SAWS JOB NO. 22-XXXX	.

PLAT NO. 23-1180046 JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER CHECKED BS DRAWN FP

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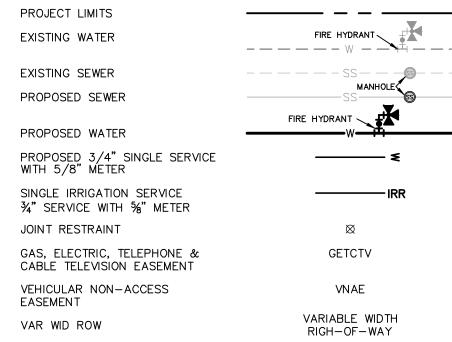


COUNTY



BRUNA F. SPENGLER 127547 Duna Opengli

WATER LEGEND



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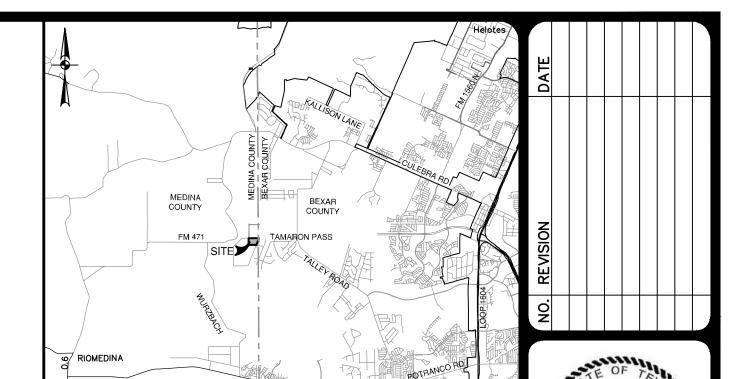
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ADDRESS: 8023 VANTAGE DRIVE, STE. 220
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230
PHONE# (210)849-1447 FAX#
SAWS BLOCK MAP# 060594 TOTAL EDU'S 124 TOTAL ACREAGE 33.50
2939 LF-12" PVC TOTAL LINEAR FOOTAGE OF PIPE: 4480 LF-8" PVC PLAT NO. 23-11800469
NUMBER OF LOTS 117 SAWS JOB NO. 22-XXXX

ат no. 23-1180046 JOB NO. 12285-02 ATE FEBRUARY 2024 DESIGNER CHECKED BS DRAWN FP

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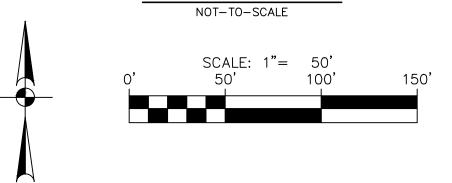
WATER/DRAIN CROSSING DETAIL "I"

NOT TO SCALE

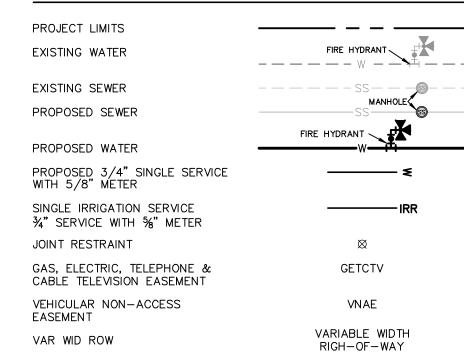


BRUNA F. SPENGLER 127547





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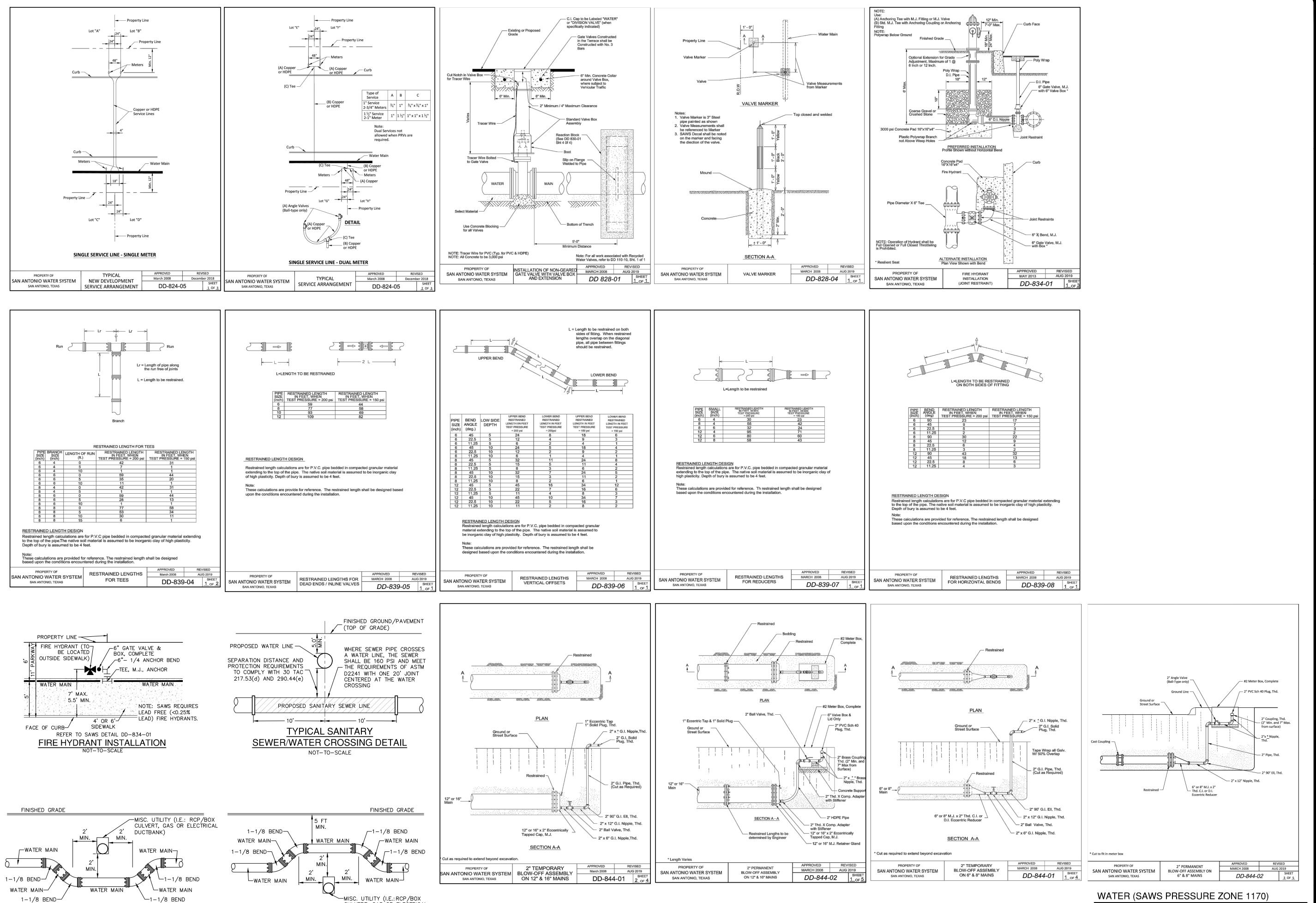
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WATER (SAWS PRESSURE ZONE 1170)

DEVELOPER'S NAME: <u>JEN TEXAS 26, LLC</u>	Ш
ADDRESS: 8023 VANTAGE DRIVE, STE. 220	Ш
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230	
PHONE# <u>(210)849–1447</u> FAX#	
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_AT NO. 23-1180046 JOB NO. 12285-02 DATE FEBRUARY 2024 DESIGNER CHECKED BS DRAWN FP

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ALL JOINTS ARE FULLY RESTRAINED IN

TABLE DD-839-06.

ACCORDANCE WITH SAWS SPECIFICATION

TYPICAL UTILITY/WATER CROSSING DETAIL

NOT-TO-SCALE

CULVERT, GAS OR ELECTRICAL

DUCTBANK)

LAT NO. 23-11800469 12285-02 ATE FEBRUARY 2024 ESIGNER HECKED BS DRAWN FP

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PHONE# <u>(210)849-1447</u>

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BRUNA F. SPENGLER 127547

	SAWS CONSTRUC
	(LAST REVISED JANU
	SAWS GENERAL SECTION 1. ALL MATERIALS AND CONSTRUCTION PROC CONTRACT SHALL BE APPROVED BY THE SAI COMPLY WITH THE PLANS, SPECIFICATIONS, FOLLOWING AS APPLICABLE:
	A.CURRENT TEXAS COMMISSION ON ENVIR CRITERIA FOR DOMESTIC WASTEWATER CODE (TAC) TITLE 30 PART 1 CHA WATER", TAC TITLE 30 PART 1 CHAPTEF B.CURRENT TXDOT "STANDARD SPECIFI HIGHWAYS, STREETS AND DRAINAGE". C.CURRENT "SAN ANTONIO WATER SYSTI WATER AND SANITARY SEWER CONSTRUCT D.CURRENT CITY OF SAN ANTONIO "STAI WORKS CONSTRUCTION". E.CURRENT CITY OF SAN ANTONIO "UTIL (UECM).
	2. THE CONTRACTOR SHALL NOT PROCEED WITH THEY OBTAIN A COPY OF THE APPRO CONSTRUCTION PERMIT (GCP) FROM THE COSAWS CONSTRUCTION INSPECTION DIVISION TARRANGED A MEETING WITH THE INSPECTOREQUIREMENTS. WORK COMPLETED BY THE COUNTER PERMIT AND/OR A GCP WIL REPLACEMENT AT THE EXPENSE OF THE CON
	3. THE CONTRACTOR SHALL OBTAIN THE SAWS WEBSITE, HTTP://WWW.SAWS.ORG/BUSINESS_NOTED WITHIN THE DESIGN PLANS.
	4. THE CONTRACTOR IS TO MAKE ARRANGEN INSPECTION DIVISION AT (210) 233-2973, ON NOTIFICATION PROCED AFFECTED HOME RESIDENTS AND/OR PROF BEGINNING ANY WORK.
	5. LOCATION AND DEPTH OF EXISTING UTILITIE THE PLANS ARE UNDERSTOOD TO BE A DEPTHS MUST BE FIELD VERIFIED BY THE CO CONSTRUCTION. IT SHALL BE THE CONTI UTILITY SERVICE LINES AS REQUIRED FOR DURING CONSTRUCTION AT NO COST TO SAW
	6. THE CONTRACTOR SHALL VERIFY THE EXACT AND DRAINAGE STRUCTURES AT LEAST WHETHER SHOWN ON PLANS OR NOT. PLEAS LOCATES REQUESTING PIPE LOCATION NOT FOLLOWING CONTACT INFORMATION ARE SUPE
	 SAWS UTILITY LOCATES: HTTP: //WWW.S. COSA DRAINAGE (210) 207-0724 OR (2 COSA TRAFFIC SIGNAL OPERATIONS (210 COSA TRAFFIC SIGNAL DAMAGES (210) 2 TEXAS STATE WIDE ONE CALL LOCATOR
	7. THE CONTRACTOR SHALL BE RESPONSIBL CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LORIGINAL OR BETTER CONDITION IF DAMAGE PROJECT'S CONSTRUCTION.
	8. ALL WORK IN TEXAS DEPARTMENT OF TRA COUNTY RIGHT-OF-WAY SHALL BE DONE CONSTRUCTION SPECIFICATIONS AND PERMIT
	9. THE CONTRACTOR SHALL COMPLY WITH GOVERNING MUNICIPALITY'S TREE ORDINANCES
	10. THE CONTRACTOR SHALL NOT PLACE ANY FLOOD PLAIN WITHOUT FIRST OBTAINING AN A
	11. HOLIDAY WORK: CONTRACTORS WILL NOT BE SAWS RECOGNIZED HOLIDAYS. REQUEST SHOU CONSTWORKREQ@SAWS.ORG.
	WEEKEND WORK: CONTRACTORS ARE REQUI CONSTRUCTION DEPARTMENT 48 HOURS IN REQUEST SHOULD BE SENT TO CONSTWORKRI
	ANY AND ALL SAWS UTILITY WORK IN APPROVAL WILL BE SUBJECT TO BE UNCOVER
	12. COMPACTION NOTE (ITEM 804): THE CON- MEETING THE COMPACTION REQUIREMENTS PAYING FOR THE TESTS PERFORMED BY A BE DONE AT ONE LOCATION POINT RANDOML SAWS INSPECTOR AND/OR THE TEST ADMIL LIFT PER 400 LINEAR FEET AT A MINIMUM. AND FINALIZED BY SAWS WITHOUT THIS REG PROVIDING ALL NECESSARY DOCUMENTED TES
	13. A COPY OF ALL TESTING REPORTS SHALL BE INSPECTION DIVISION.

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SAWS CONSTRUCTION NOTES (LAST REVISED JANUARY 2022)

- MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS TRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND
- PLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE OWING AS APPLICABLE: CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) 'DESIGN
- CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF
- HIGHWAYS, STREETS AND DRAINAGE? CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION'
- CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" CURRENT CITY OF SAN ANTONIO 'UTILITY EXCAVATION CRITERIA MANUAL' (UECM).
- CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL STRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK JIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED NTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND ACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS SITE, HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE D WITHIN THÉ DESIGN PLANS.
- CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION)) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY ECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO INNING ANY WORK.
- ATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND THS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO ISTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM NG CONSTRUCTION AT NO COST TO SAWS.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION THER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR ATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE OWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
- SAWS UTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES COSA DRAINAGE (210) 207-0724 OR (210) 207-6026
- COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480
- COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, BS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS INAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE JECT'S CONSTRUCTION.
- WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR NTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE STRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
- CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER ERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR DD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- DAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO STWORKREQ@SAWS.ORG.

KEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION FRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK JEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND ROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

- IPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR TING THE COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR NG FOR THE TESTS PERFORMED BY A THIRD PARTY, COMPACTION TESTS WILL DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY VIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
- OPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION

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 THI 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.
- ALL VALVES SHALL READ "OPEN RIGHT".
- 6. PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 985 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 985 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE
- PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR 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 TH 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 AL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY LOT CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, 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.
- 9. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
- O. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL

WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND THE S.A.W.S.

- . 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 WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO).
- 13. A CLEAR SPACE SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. THIS AREA SHOULD HAVE A MINIMUM DIAMETER OF 3.0' AND BE CLEAN OF VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.

RELEASES THE MAIN FOR TIE-IN AND USE.

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



Duna Opengu

WATER (SAWS PRESSURE ZONE 1170)

DEVELOPER'S NAME: <u>JEN TEXAS 26, LLC</u> ADDRESS: 8023 VANTAGE DRIVE, STE. 220

CITY: SAN ANTONIO STATE: TEXAS ZIP: 78230

PHONE# (210)849-1447 SAWS BLOCK MAP# 060594 TOTAL EDU'S 124 TOTAL ACREAGE 33.50 2939 LF-12" PVC
TOTAL LINEAR FOOTAGE OF PIPE: 4480 LF-8" PVC PLAT NO. 23-11800469

NUMBER OF LOTS 117 SAWS JOB NO. 22-XXXX

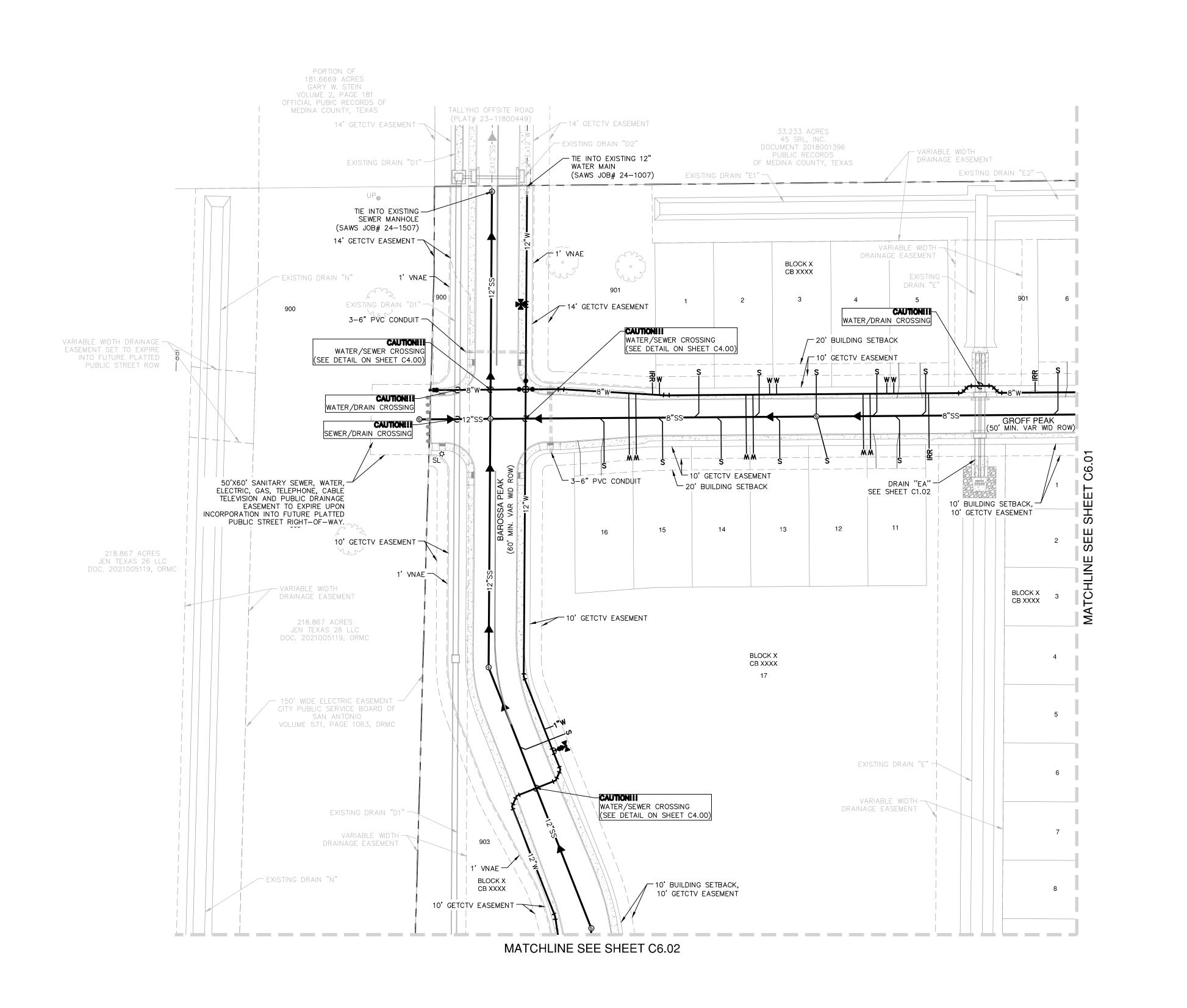
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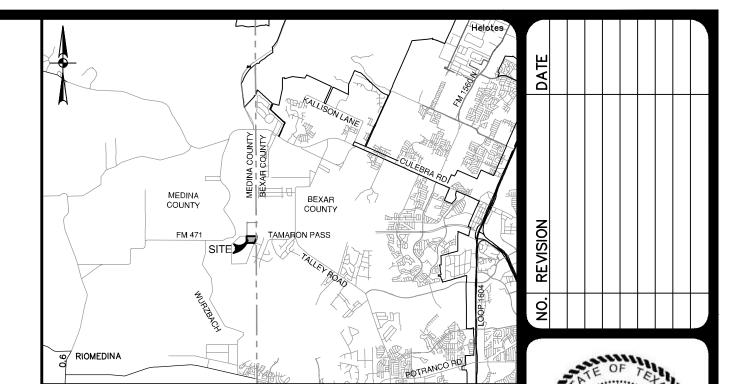
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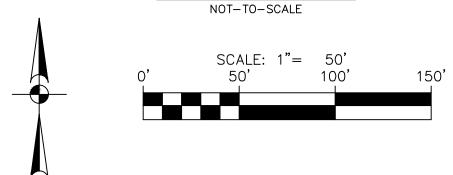
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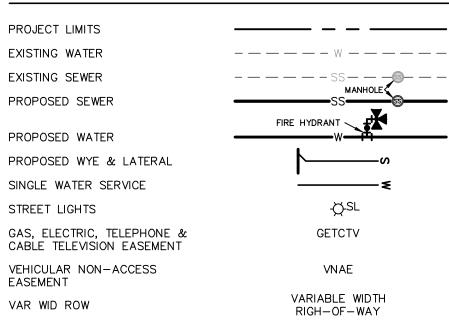




LOCATION MAP



UTILITY LEGEND



Bruna Spengl 2/19/24

BRUNA F. SPENGLER

PAPE-DAWSOR
ENGINEERS

2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.90
TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #100288

CONDUIT NOTES:

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PLAT NO. 23-11800469

JOB NO. 12285-02

DATE FEBRUARY 2024

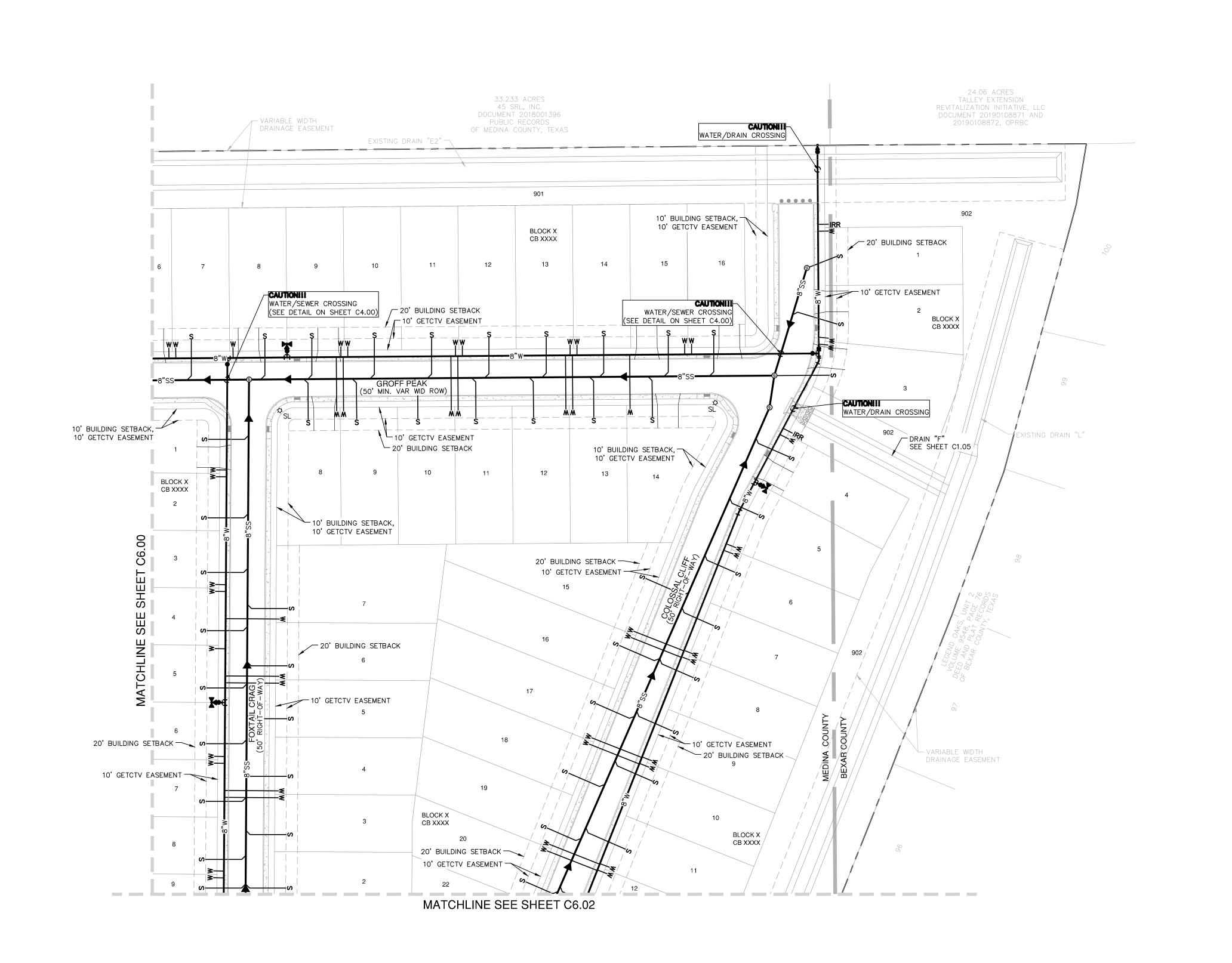
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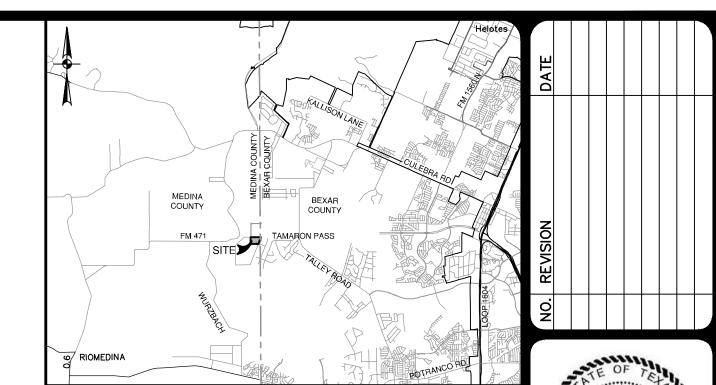
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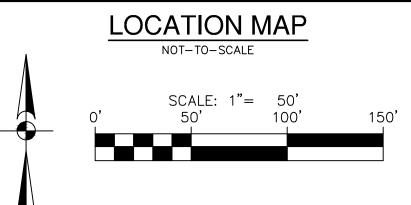
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UTILITY LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER PROPOSED WATER PROPOSED WYE & LATERAL SINGLE WATER SERVICE -☆-SL STREET LIGHTS GAS, ELECTRIC, TELEPHONE & GETCTV CABLE TELEVISION EASEMENT VEHICULAR NON-ACCESS VNAE EASEMENT VARIABLE WIDTH VAR WID ROW RIGH-OF-WAY

PE-DAWSON GINEERS SAN ANTONIO, TX 78213 I 210.375.9000

BRUNA F. SPENGLER

PAPE-DA ENGINEERING FIRM #470 I TEXAS SI

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PLAT NO. 23-11800469

JOB NO. 12285-02

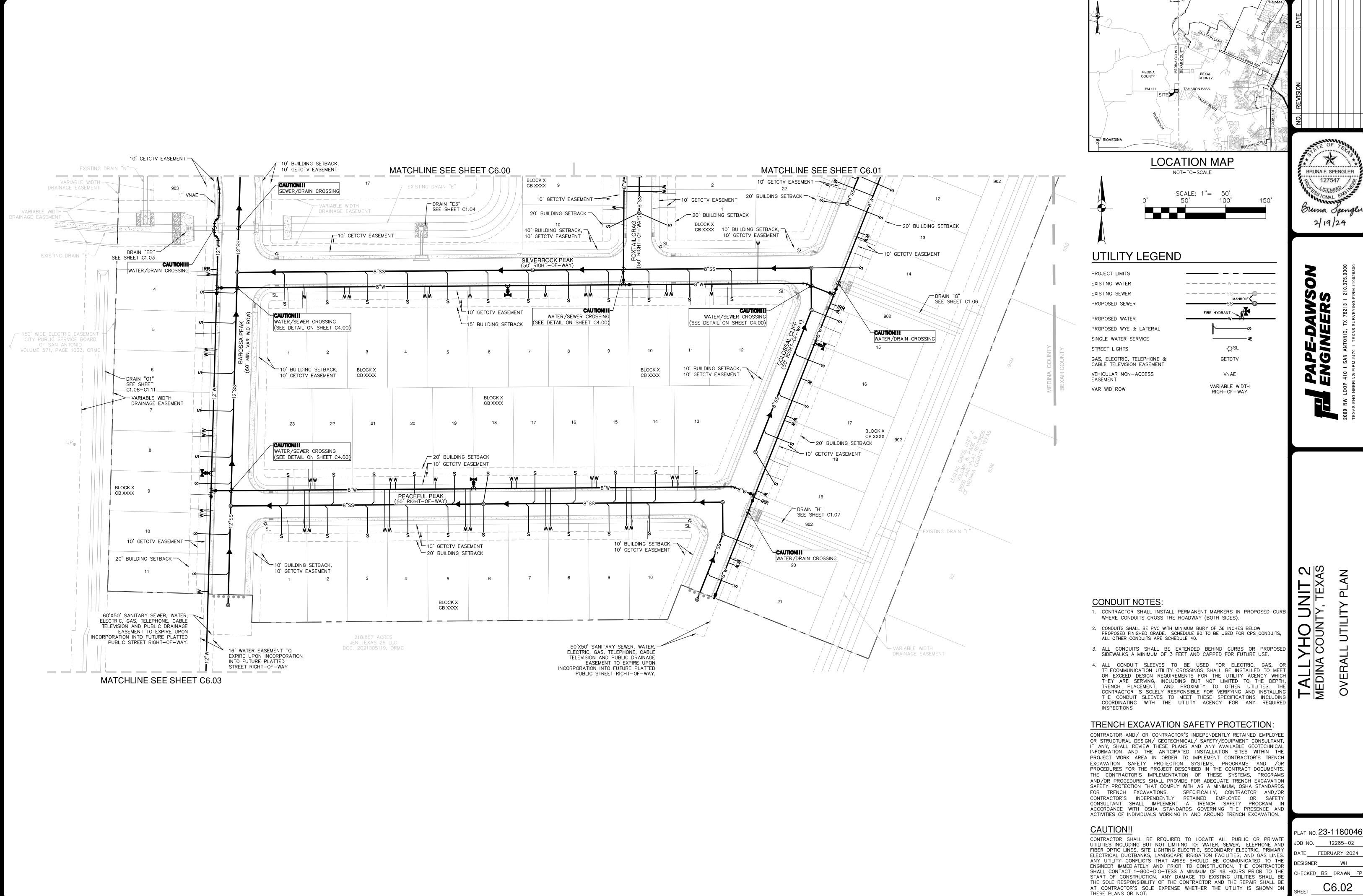
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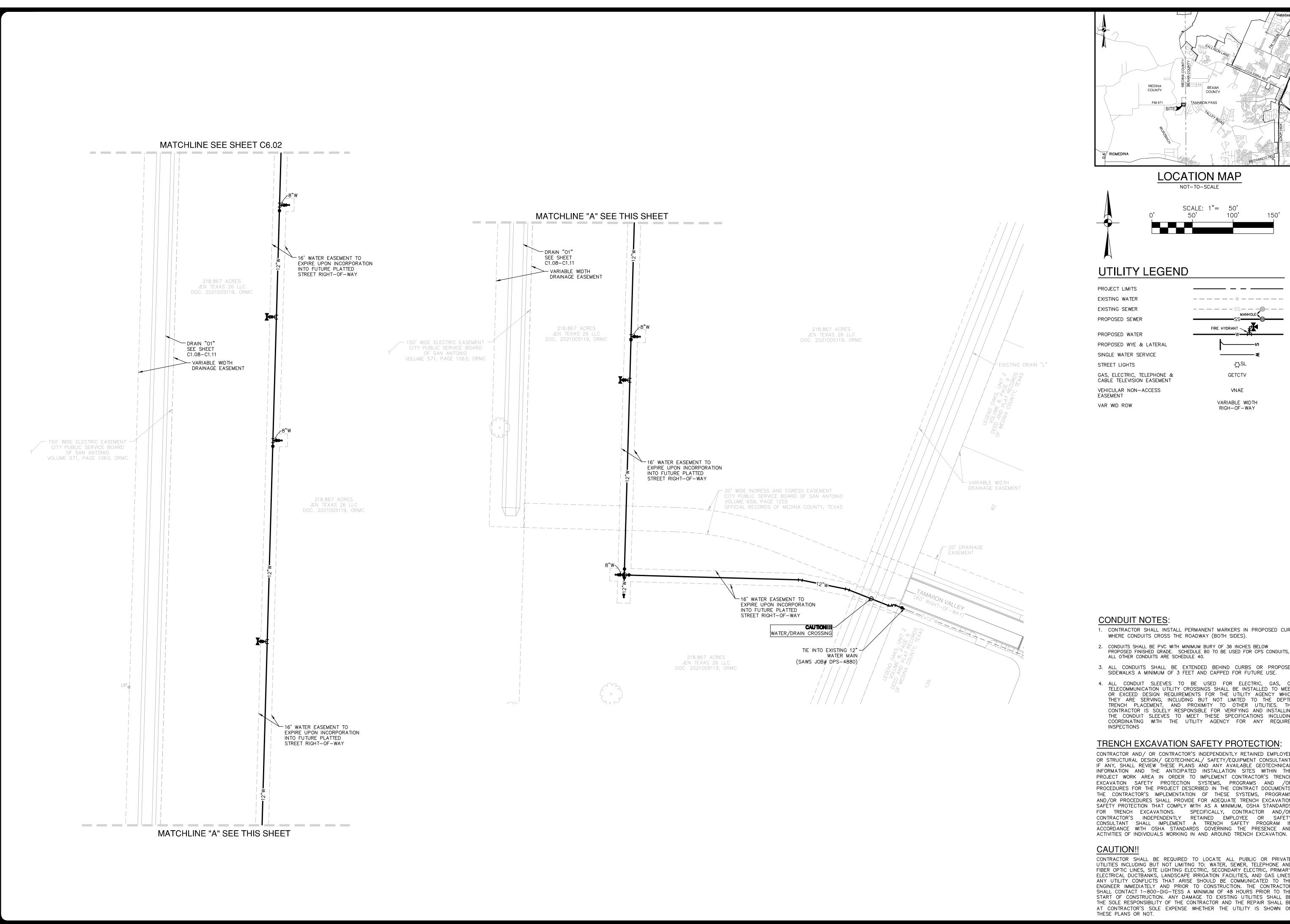
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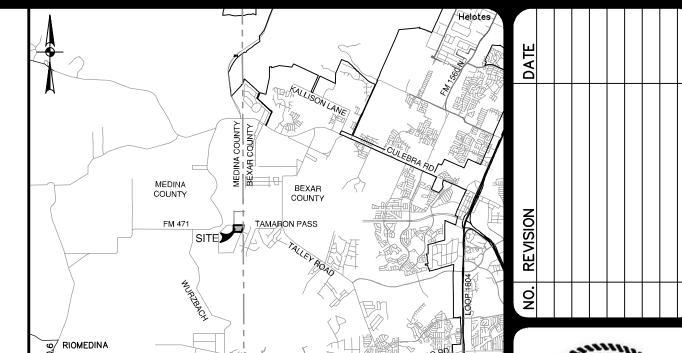
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LAT NO. 23-11800469 JOB NO. 12285-02 ATE FEBRUARY 2024

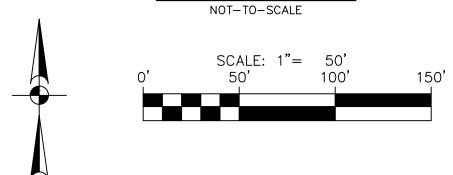
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LOCATION MAP



UTILITY LEGEND

PROPOSED WYE & LATERAL -☆-SL GAS, ELECTRIC, TELEPHONE & **GETCTV** CABLE TELEVISION EASEMENT VNAE VARIABLE WIDTH RIGH-OF-WAY

BRUNA F. SPENGLER

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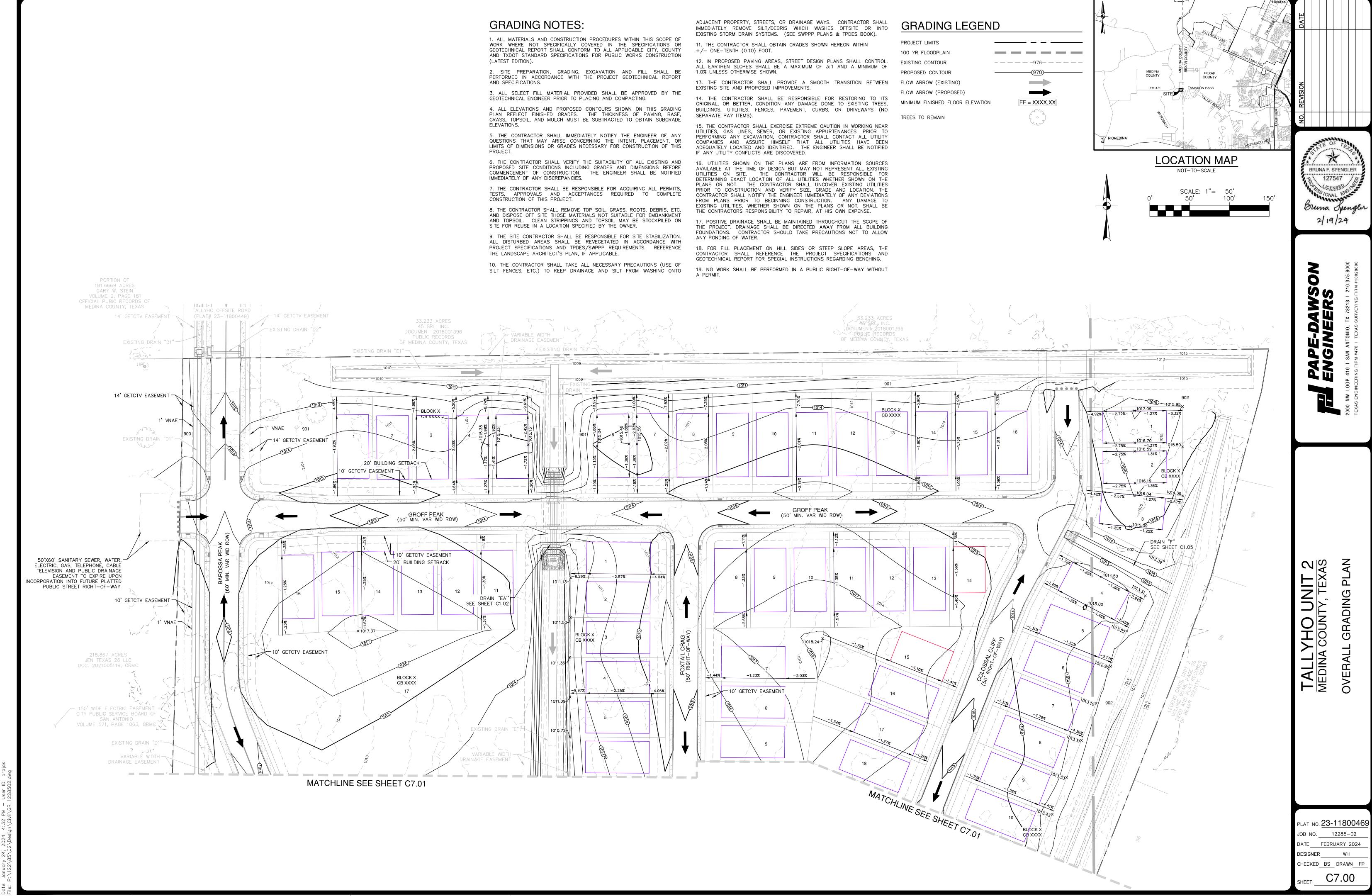
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PLAT NO. 23-11800469

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BRUNA F. SPENGLER

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Bruna Spengler

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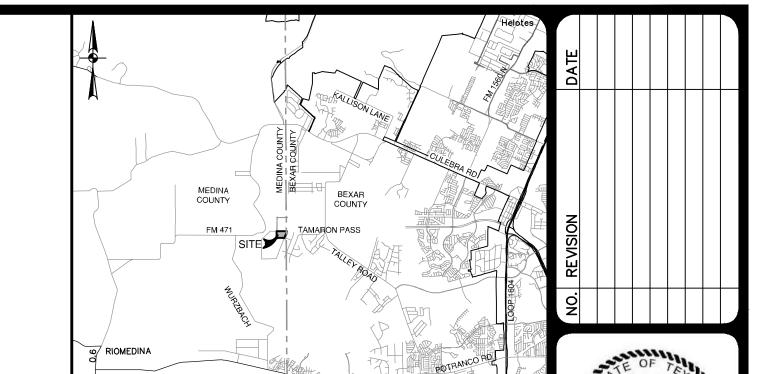
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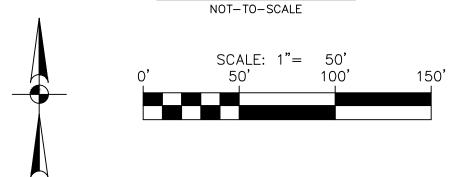
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BRUNA F. SPENGLER

LOCATION MAP



SWPPP LEGEND

PROJECT LIMITS	
EXISTING CONTOUR	
PROPOSED CONTOUR	
FLOW ARROW (EXISTING)	\rightarrow
FLOW ARROW (PROPOSED)	\rightarrow
SILT FENCE	-//-//-//-
ROCK BERM	***
GRAVEL FILTER BAGS	•••
GRATE INLET PROTECTION	• •
SEDIMENT CONTROL ROLLS	***********
LIMITS OF DISTURBED AREA	
STABILIZED CONSTRUCTION ENTRANCE (FIELD LOCATE)	/EXIT
CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)	%: (////////////////////////////////////
CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)	
	* * * * * * * *

GENERAL NOTES

50' NATURAL VEGETATED BUFFER

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH 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 BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.

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 BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.

6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.

7. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.

8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT

AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.

9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO

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10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.

11. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.

12. WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.

13. SHADED AREA DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES.

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EXHIBIT 2

PLAT NO. 23-11800469

JOB NO. 12285-02

DATE FEBRUARY 2024

DESIGNER WH

CHECKED BS DRAWN FP

C8.00

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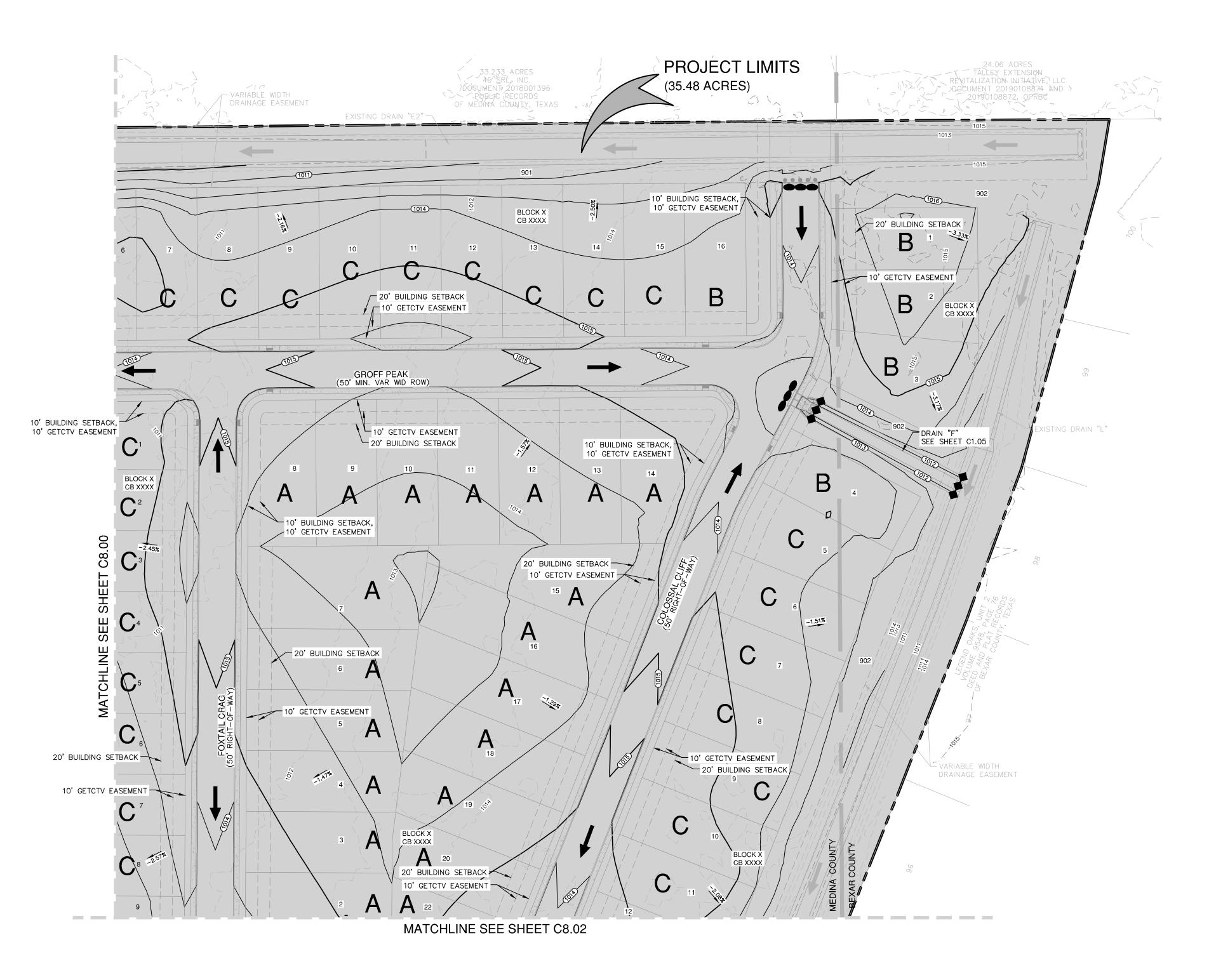
SWP3 MODIFICATIONS

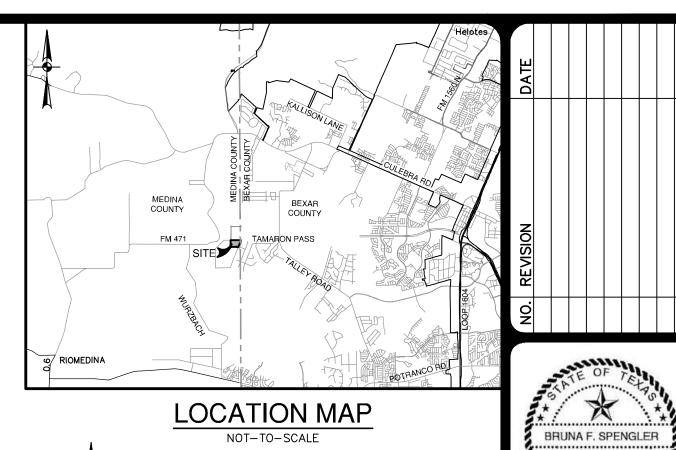
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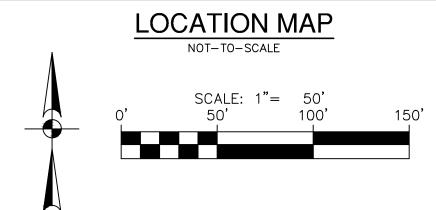
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DATE

SIGNATURE







SWPPP LEGEND

PROJECT LIMITS

EXISTING CONTOUR PROPOSED CONTOUR FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) -//-//-//-//-SILT FENCE ******* ROCK BERM GRAVEL FILTER BAGS GRATE INLET PROTECTION SEDIMENT CONTROL ROLLS LIMITS OF DISTURBED AREA STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE) CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE) CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE) 50' NATURAL VEGETATED BUFFER

GENERAL NOTES

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH 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 BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.

4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.

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5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.

6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.

7. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.

8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.

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

10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.

11. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.

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EXHIBIT 2

TALLYHO UNIT MEDINA COUNTY, TEXA

PLAT NO. 23-11800469

JOB NO. 12285-02

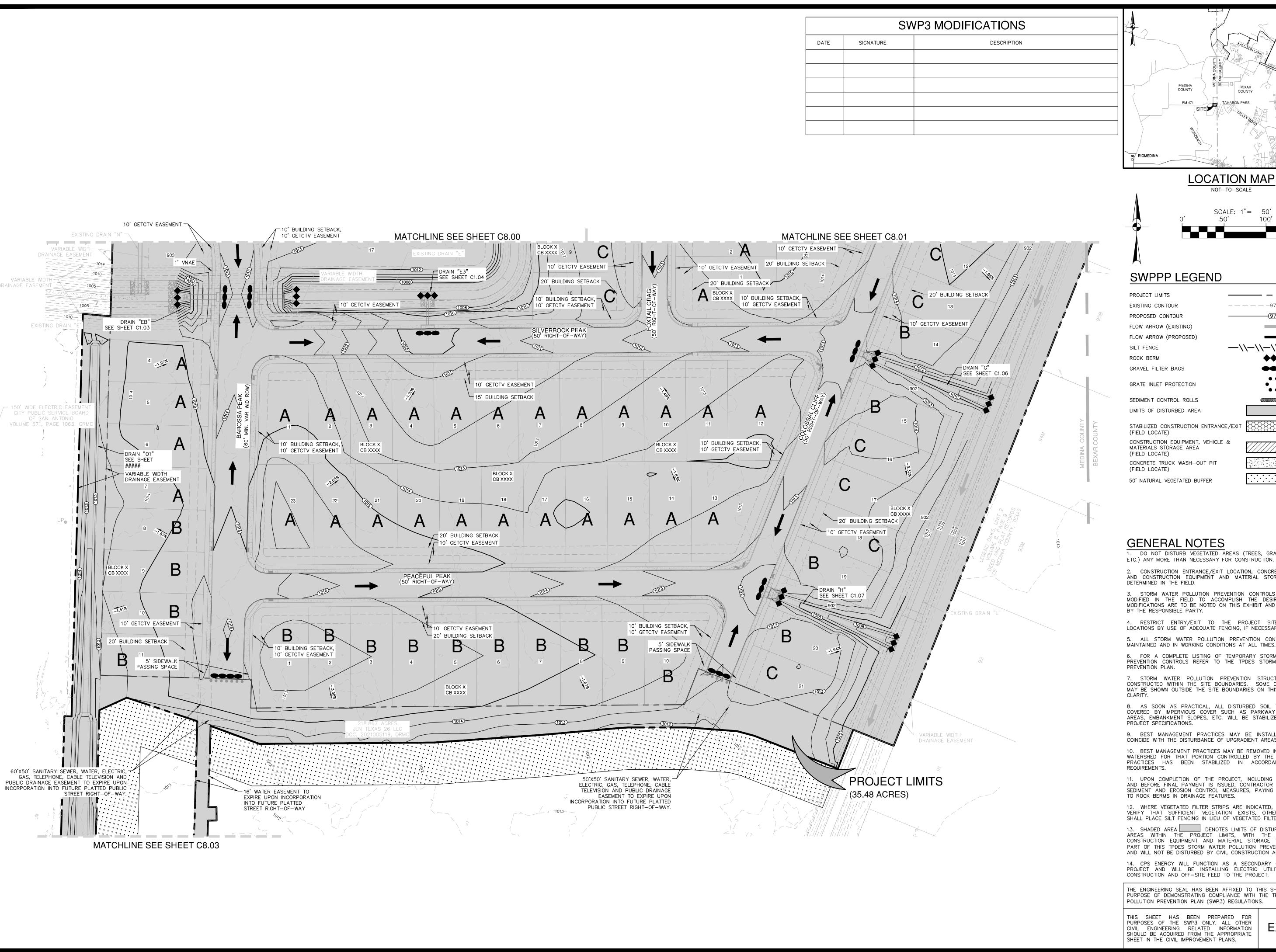
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SHEET <u>C8.01</u>

DATE SIGNATURE DESCRIPTION



BRUNA F. SPENGLER

SWPPP LEGEND

-//-//-//-//-*******

NOT-TO-SCALE

STABILIZED CONSTRUCTION ENTRANCE/EXIT CONSTRUCTION EQUIPMENT, VEHICLE &

CONCRETE TRUCK WASH-OUT PIT

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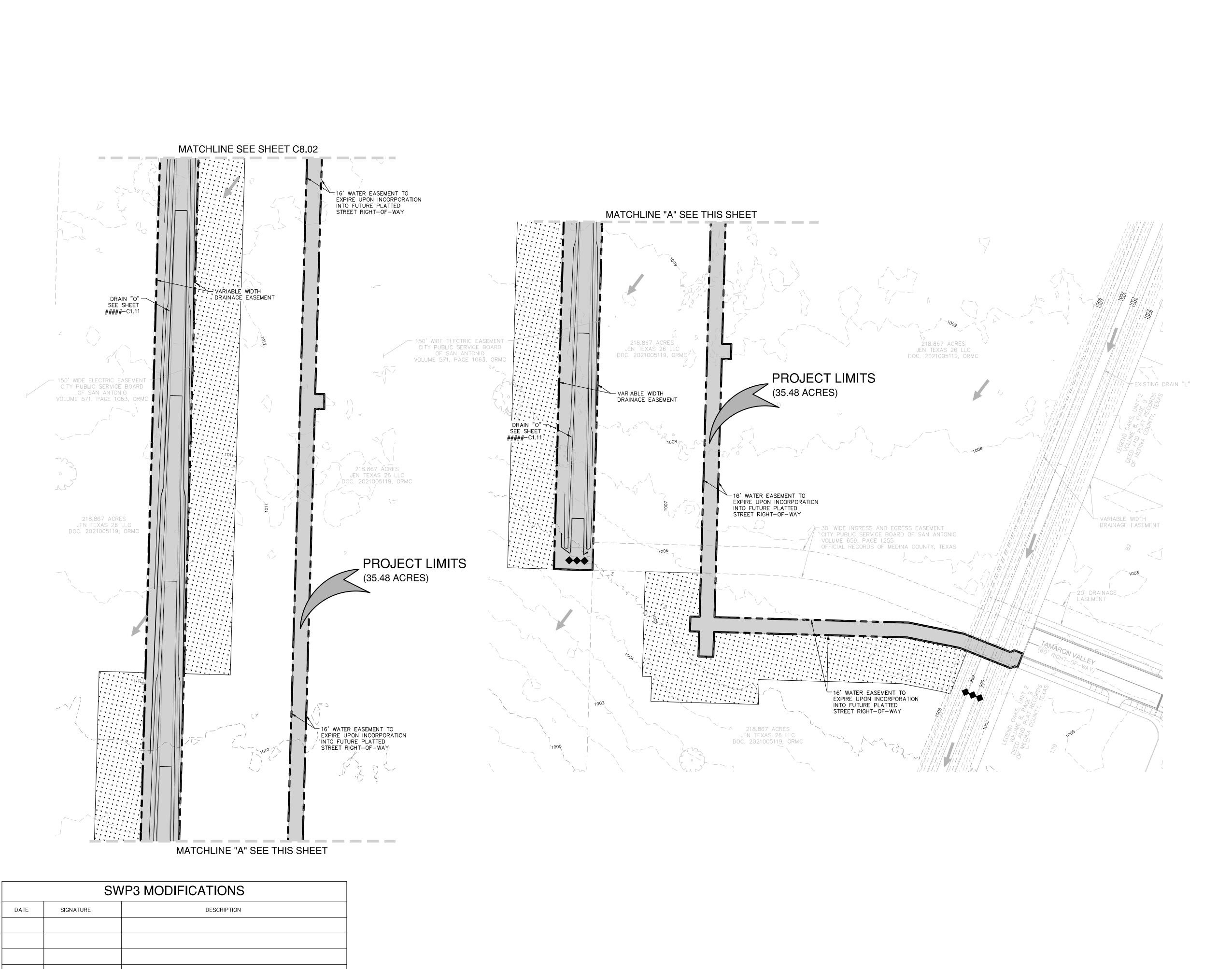
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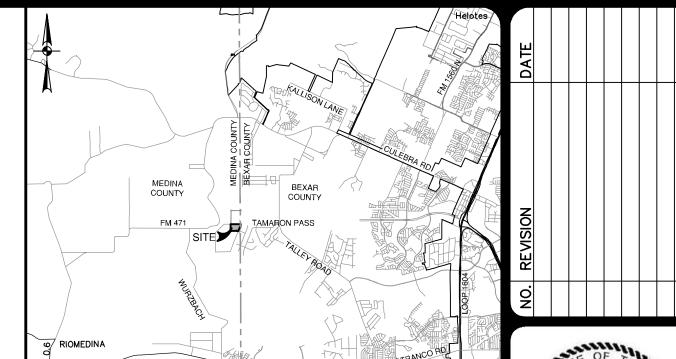
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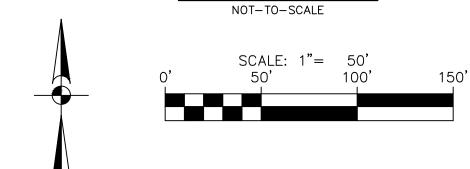
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LOCATION MAP



SWPPP LEGEND

PROJECT LIMITS ——	
EXISTING CONTOUR $$	— — — —976— — — —
PROPOSED CONTOUR ——	970
FLOW ARROW (EXISTING)	\rightarrow
FLOW ARROW (PROPOSED)	\rightarrow
SILT FENCE —\	./-//-//-//
ROCK BERM	**
GRAVEL FILTER BAGS	•••
GRATE INLET PROTECTION	• •
SEDIMENT CONTROL ROLLS	***********
LIMITS OF DISTURBED AREA	
STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)	
CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)	
•	The state of the state of the state of the state of

GENERAL NOTES

CONCRETE TRUCK WASH-OUT PIT

50' NATURAL VEGETATED BUFFER

(FIELD LOCATE)

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EXHIBIT 2

MEDINA COUNTY, TEXA

BRUNA F. SPENGLER

PLAT NO. 23-11800469

JOB NO. 12285-02

DATE FEBRUARY 2024

DESIGNER WH

HECKED BS DRAWN FP

C8.03

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

8-INCHES. 3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD2, A MULLEN BURST RATING OF 140 LB/IN2, AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE

4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4-INCH DIAMETER WASHED STONE OR COMMERCIAL ROCK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OF

INSTALLATION

RUNOFF AWAY FROM THE PUBLIC ROAD.

LAY SOD IN A STAGGERED PATTERN. BUTT

THE STRIPS TIGHTLY AGAINST EACH OTHER.

DO NOT LEAVE SPACES AND DO NOT

OVERLAP. A SHARPENED MASON'S TROWEL

IS A HANDY TOOL FOR TUCKING DOWN THE

AUTOMATIC SOD CUTTER MUST BE MATCHED

ANGLED ENDS CAUSED BY THE

ENDS AND TRIMMING PIECES.

MATERIALS

OF 36 HOURS.

SHOOT GROWTH AND THATCH.

SITE PREPARATION

TIGHTLY (SEE FIGURE ABOVE).

TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.

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

TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.

INSTALLATION IN CHANNELS

INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

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.

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

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

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

SURFACE SMOOTH AND SLOPE FOR DRAINAGE. 7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A

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

. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND

STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO

SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN

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

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

DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS

CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER

SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC,

FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

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

SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE

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

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

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

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

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

SEDIMENT TRAP OR BASIN. 8. INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD

STABILIZE FOUNDATION SECTION "A-A" OF A

GEOTEXTILE FABRIC TO

CONSTRUCTION ENTRANCE/EXIT

COMMON TROUBLE POINTS 1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD.

THE MINIMUM 50-FOOT LENGTH AS NECESSARY.

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

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

5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

INCORRECT

SOD INSTALLATION

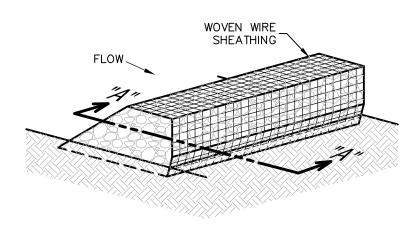
USE PEGS OR STAPLES TO FASTEN SOD

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



ISOMETRIC PLAN VIEW

ROCK BERMS

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

NSPECTION AND MAINTENANCE GUIDELINES

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

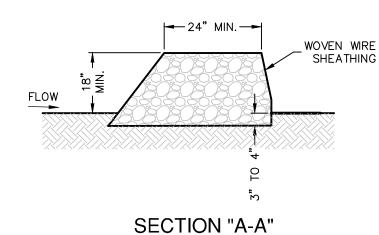
. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT WILL NOT CAUSE ANY ADDITIONAL SILTATION.

3. REPAIR ANY LOOSE WIRE SHEATHING.

4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION

THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.



MATERIALS

THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT

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

NSTALLATION

COMMON TROUBLE POINTS

. 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.

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

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

ROCK BERM DETAIL

NOT-TO-SCALE

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

DEAD LEAVES, UP TO 1/2" THICK. <u>ROOT ZONE</u>— SOIL AND ROOTS

-THATCH- GRASS CLIPPINGS AND

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

SHOOTS OR GRASS BLADES.

CUTTING HEIGHT

GRASS SHOULD BE GREEN AND

HEALTHY: MOWED AT A 2"-3"

SEDIMENT BASIN.

DENSE ROOT MAT FOR STRENGTH. APPEARANCE OF GOOD SOD

 ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

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

STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT-TO-SCALE

3. MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3"). LAY SOD ACROSS THE DIRECTION OF FLOW

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

GENERAL INSTALLATION (VA. DEPT. OF

THE FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD

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

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

> 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.

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

SOD INSTALLATION DETAIL

NOT-TO-SCALE

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.

WITH THE GROUND.

2. DURING PERIODS OF HIGH TEMPERATURE, THE SOIL SHOULD BE LIGHTLY LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD, TO COOL THE SOIL AND REDUCE ROOT BURNING AND DIEBACK.

OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM 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).

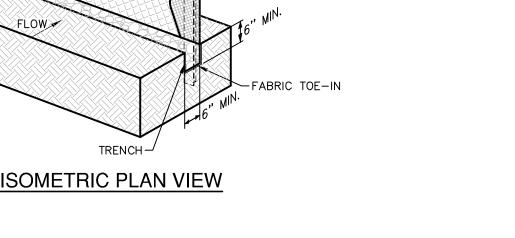
THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS

8. THE FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL THE SOD IS FIRMLY

SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO

SILT FENCE DETAIL

NOT-TO-SCALE



SILT FENCE

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

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

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

. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN2, ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.

. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM WEIGHT 1.25 LB/FT, AND BRINDELL HARDNESS

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

INSTALLATION

. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.

2. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.

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

TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL. 5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

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

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

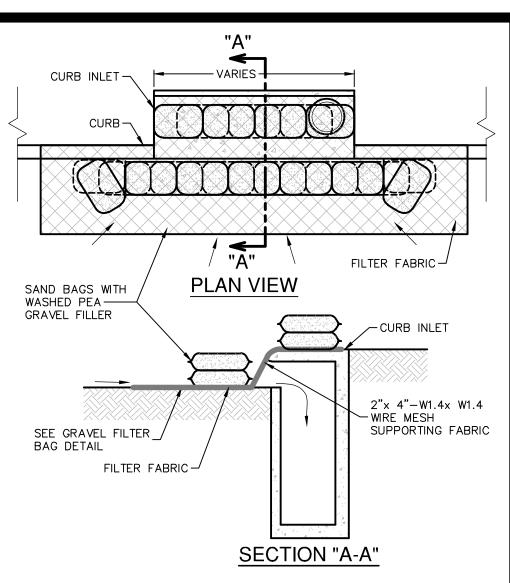
2. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.

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.

PIT DETAIL



GENERAL NOTES

A MANNER THAT IT WILL NOT ERODE.

. CONTRACTOR TO INSTALL 2"x4"-W1.4xW1.4 WIRE MESH SUPPORTING FILTER FABRIC OVER THE INLET OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR WIRE TIES AT THIS LOCATION. SAND BAGS FILLED WITH WASHED PEA GRAVEL SHOULD BE PLACED ON TOP OF WIRE MESH ON TOP OF THE INLET AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SANDBAGS FILLED WITH WASHED PEA GRAVEL SHOULD ALSO BE PLACED ALONG THE GUTTER AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SAND BAGS TO BE STACKED TO FORM A CONTINUOUS BARRIER AROUND INLETS.

2. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.

INSPECTION AND MAINTENANCE GUIDELINES 1. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED BY THE

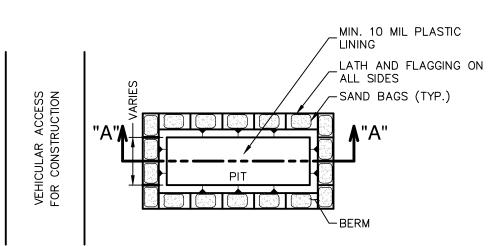
2. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH

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

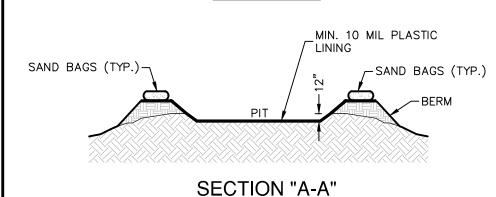
4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING. 5. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

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.

3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF. 4. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES OR WATER BODIES.

5. TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

MATERIALS

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

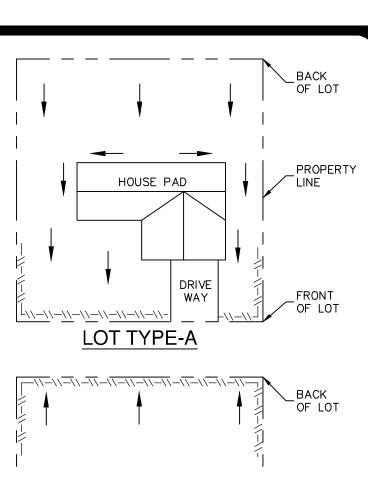
MAINTENANCE

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 REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

CONCRETE TRUCK WASHOUT

NOT-TO-SCALE



HOUSE PAD

LOT TYPE-B

HOUSE PAD

WAY

WAY

SECTION "A-A"



PROPERT'

PROPER1

LEGEND -\\-\\- SILT FENCE DRAINAGE FLO

TYPICAL HOUSE LOT LAYOUTS NOT-TO-SCALE

LOT TYPE-C

NOTE: SILT FENCE TO BE INSTALLED PER

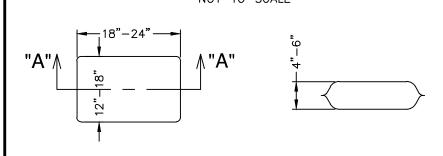
DOWNGRADIENT SIDE OF EACH LOT LINE

THESE DETAILS AND LOCATED ON THE

OR LIMITS OF CLEARING AS GENERALLY

SHOWN ON THE OVERALL SITE PLAN.

PLAN VIEW



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 EQUIPMENT & I VEHICLE STORAGE AND MAINTENANCE AREA OFFICE ENTRANCE CONSTRUCTION AND WASTE LEGEND MATERIAL

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 FOI PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

STORAGE AREA

EXHIBIT

-\\-\\- SILT FENCE

→ FLOW ARROWS

SIGNER

IECKED BS DRAWN FF C8.04

_{-AT NO}. 23-1180046

FEBRUARY 2024

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