



**E-54 Sanitary Sewer Project - RFCSP  
Solicitation Number: CO-00503  
Job No.: 21-4404**

**ADDENDUM 1  
June 7, 2022**

To Respondent of Record:

This addendum, applicable to project referenced above, is an amendment to the proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the addendum number and issue date on the space provided in submitted copies of the Respondent Questionnaire.

**RESPONSES TO QUESTIONS**

**QUESTION 1:**

**Due to contractor machine availability for the tunnel crossings, is varying casing sizes acceptable, for instance using 51" od casing pipe in lieu of 42" and 48".**

*RESPONSE: The dimensions provided in the contract documents are minimum diameters.*

*Reach 1- Per the GBR section 2.1 Reach 1 is a minimum 6-ft diameter and Spec Section 02300 1.06 A.1 Reach 1 minimum diameter is 72-in or as accepted by the Engineer. See sheet C3.00C & C3.01C of changes to the plans.*

*Reach 2- Per the GBR section 2.2 Reach 2, is a minimum 6-ft diameter (if excavated using a TBM), 5-ft (if Hand Mined), or 4-ft (if constructed by pipe Jacking) and Spec Section 2300 1.06 A.2 minimum Diameter is 60-in or as accepted by the Engineer.*

*Remaining Jack and Bore Locations- Per Spec Section 2300 1.01 C.2 the minimum casing diameters are provided in Table-1. If larger casing is to be used the invert of the bore will need to be adjusted to avoid possible conflicts with existing infrastructure as shown on the plans.*

**QUESTION 2:**

**In the pre-bid meeting it was mentioned that the Reach 1 and Reach 2 Tunnels were to be 72". In the plans the tunnels scale to be 60" and on sheet C3.00C it calls for the Reach 2 Tunnel to be 60". In the GBR it calls for the primary liner to be 72". Can you please confirm whether these are 72" or 60"?**

*RESPONSE: Please see RESPONSE to Question 1 above.*

**QUESTION 3:**

**I asked this question in the prebid, but I'll provide a little more info here:  
GBR section 2.1 states that's the reach 1 and 2 tunnels are minimum 6' (72") for TBM excavation  
Spec Sction 02300 1.06 states Reach 1 and 2 tunnels are minimum 72" and 60" diameter respectively  
Please confirm tunnel excavation larger than 72" diameter to suit contractor's equipment is acceptable.**

*RESPONSE: Please see RESPONSE to Question 1 above.*

**QUESTION 4:**

**Would single pass frp be acceptable to use at the tunnel crossing locations in lieu of double pass.**

*RESPONSE: No, Per Spec Section 2300 1.01 C.1, the Tunnel construction is by two-pass method.*

**QUESTION 5:**

**For the Fiberglass Reinforced Pipe, is there an approved SPL list of suppliers? And can overseas materials be used for Fiberglass pipe? Pipe spec 857.5R stated the following: Only SAWS Product Standards Committee approved pipe manufacturer will be allowed for tunneling.**

*RESPONSE: HOBAS is the only FRP manufacturer approved by the SAWS Product Standards Committee.*

<b>CHANGES TO THE PLANS</b>
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1. Sheet C3.02A: Segment A Plan and Profile Sheet STA 20+00 to STA 28+00 – Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
2. Sheet C4.02A: Force Main Plan and Profile Sheet STA 23+00 to STA 34+14.01 – Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
3. Sheet C3.09A: Segment A Plan and Profile Sheet STA 88+00 to STA 98+00 – Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
4. Sheet C3.10A: Segment A Plan and Profile Sheet STA 98+00 to STA 108+00 – Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
5. Sheet C3.11A: Segment A Plan and Profile Sheet STA 108+00 to STA 188+00 – Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
6. Sheet C3.12A: Segment A Plan and Profile Sheet STA 118+00 to STA 128+00 – Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
7. Sheet C3.13A: Segment A Plan and Profile Sheet STA 128+00 to STA 138+00 – Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
8. Sheet C3.14A: Segment A Plan and Profile Sheet STA 138+00 to STA 148+00 – Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
9. Sheet C3.15A: Segment A Plan and Profile Sheet STA 148+00 to STA 158+00 – Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
10. Sheet C3.16A: Segment A Plan and Profile Sheet STA 158+00 to STA 162+58– Remove in its entirety and replace with the attached document.
  - Added topsoil replacement note and quarry access note
11. Sheet C5.01B: Segment B Stormwater Pollution Prevention Plan STA 23+00 to STA 47+72.91 – Remove in its entirety and replace with the attached document.
  - Added gravel filter bags to sheet C5.01B
12. Sheet C3.00C: Segment C Plan and Profile Sheet STA 7+00 to STA 18+00 – Remove in its entirety and replace with the attached document.
  - Revised diameter of proposed casing in profile view
13. Sheet C3.01C: Segment C Plan and Profile Sheet STA 18+00 to STA 29+00 – Remove in its entirety and replace with the attached document.
  - Revised diameter of proposed casing in profile view.
14. Sheet C3.03C: Segment C Plan and Profile Sheet STA 40+00 to STA 51+00 – Remove in its entirety and replace with the attached document.
  - Future sewer (by others) added to plan and profile

15. Sheet C5.01C: Segment C Stormwater Pollution Prevention Plan – Remove in its entirety and replace with the attached document.

- Added rock berms to sheet C5.01C

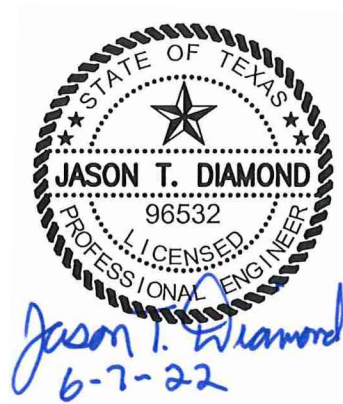
**CLARIFICATIONS**

- N/A

**END OF ADDENDUM**

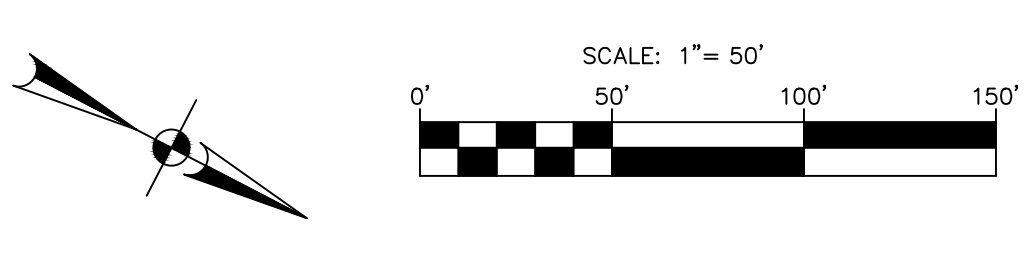
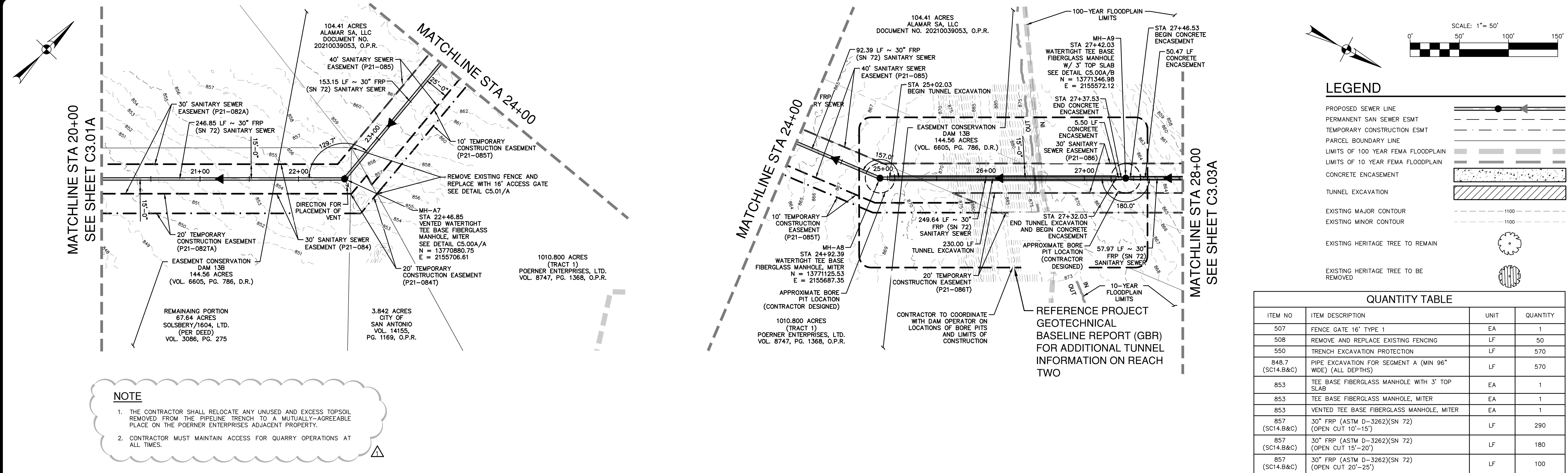
This Addendum, including these three (3) pages, is eighteen (18) pages with attachments in its entirety.

Attachments:



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Jason Diamond, P.E.  
Pape-Dawson Engineers, Inc.



**LEGEND**

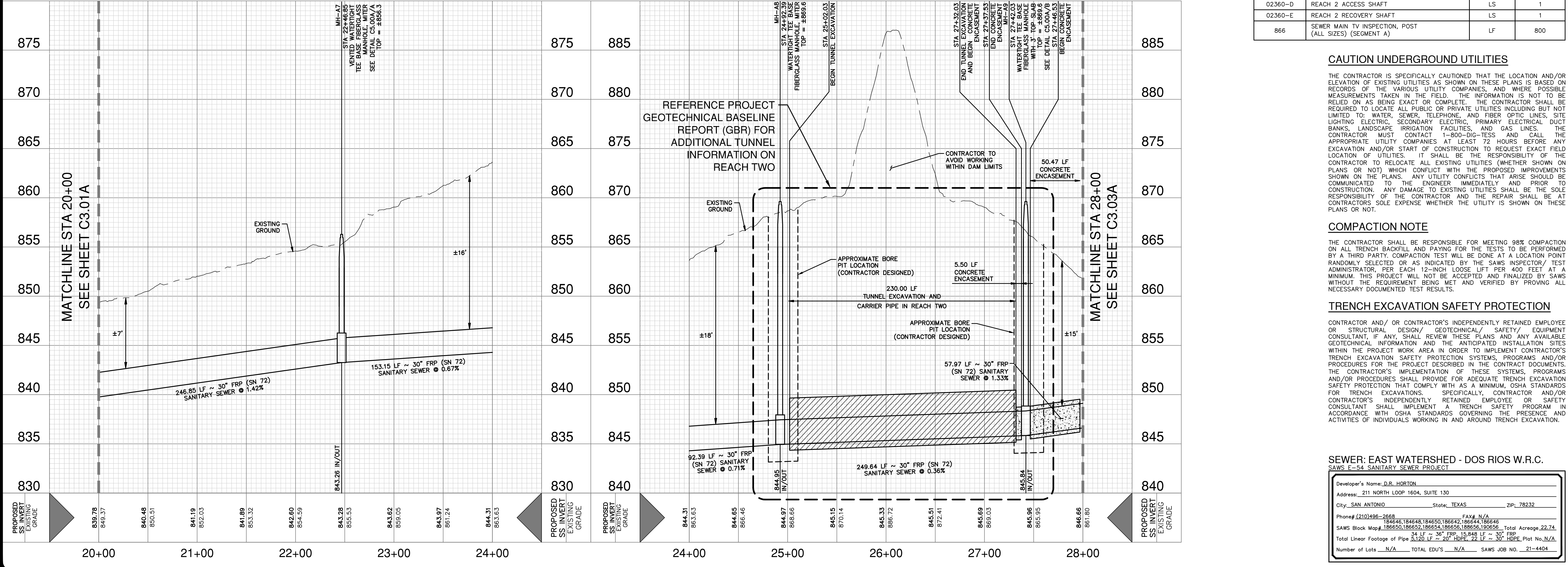
- PROPOSED SEWER LINE
- PERMANENT SAN SEWER ESMT
- TEMPORARY CONSTRUCTION ESMT
- PARCEL BOUNDARY LINE
- LIMITS OF 100 YEAR FEMA FLOODPLAIN
- LIMITS OF 10 YEAR FEMA FLOODPLAIN
- CONCRETE ENCASUREMENT
- TUNNEL EXCAVATION
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING HERITAGE TREE TO REMAIN
- EXISTING HERITAGE TREE TO BE REMOVED

**NOTE**

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- CONTRACTOR MUST MAINTAIN ACCESS FOR QUARRY OPERATIONS AT ALL TIMES.

**30" SANITARY SEWER - SEGMENT A  
STA 20+00 TO STA 28+00**

**HORIZONTAL SCALE 1" = 50' H  
VERTICAL SCALE: 1" = 5' V**



**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
507	FENCE GATE 16" TYPE 1	EA	1
508	REMOVE AND REPLACE EXISTING FENCING	LF	50
550	TRENCH EXCAVATION PROTECTION	LF	570
848.7 (SC14.B&C)	PIPE EXCAVATION FOR SEGMENT A (MIN 96" WIDE) (ALL DEPTHS)	LF	570
853	TEE BASE FIBERGLASS MANHOLE WITH 3' TOP SLAB	EA	1
853	TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
853	VENTED TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 10'-5')	LF	290
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')	LF	180
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 20'-25')	LF	100
858 (SC14.B&C)	CLASS B - 2,000 PSI CONCRETE ENCASUREMENT	CY	49
02300-B	TUNNEL EXCAVATION AND PRIMARY LINER REACH 2	LF	230
02420-B	INSTALLATION OF CARRIER PIPE IN REACH 2 30" FRP (ASTM D-3262) (SN 72)	LF	230
02360-D	REACH 2 ACCESS SHAFT	LS	1
02360-E	REACH 2 RECOVERY SHAFT	LS	1
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES) (SEGMENT A)	LF	800

**CAUTION UNDERGROUND UTILITIES**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

**COMPACTION NOTE**

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

**SEWER: EAST WATERSHED - DOS RIOS W.R.C.**  
SAWS E-54 SANITARY SEWER PROJECT

Developer's Name: D.R. HORTON  
Address: 211 NORTH LOOP 1604, SUITE 130  
City: SAN ANTONIO State: TEXAS ZIP: 78232

Phone #: (210) 496-2668 FAX #: N/A  
184646,184648,184650,186642,186644,186646  
SAWS Block Map#: 186650,186652,186654,186656,186658,186659,186658 Total Acreage: 22.74  
Total Linear Footage of Pipe 3" LF ~ 30" HOPE 22 LF ~ 30" HOPE Plat No./N/A  
Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO. 21-4404

DATE: 6/7/22  
ADDENDUM 1

NO. REVISION

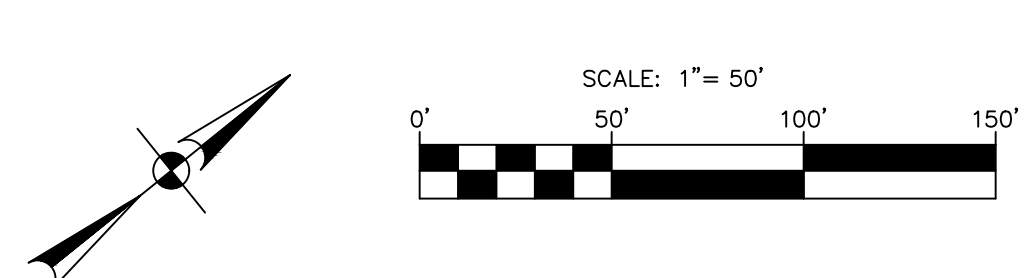
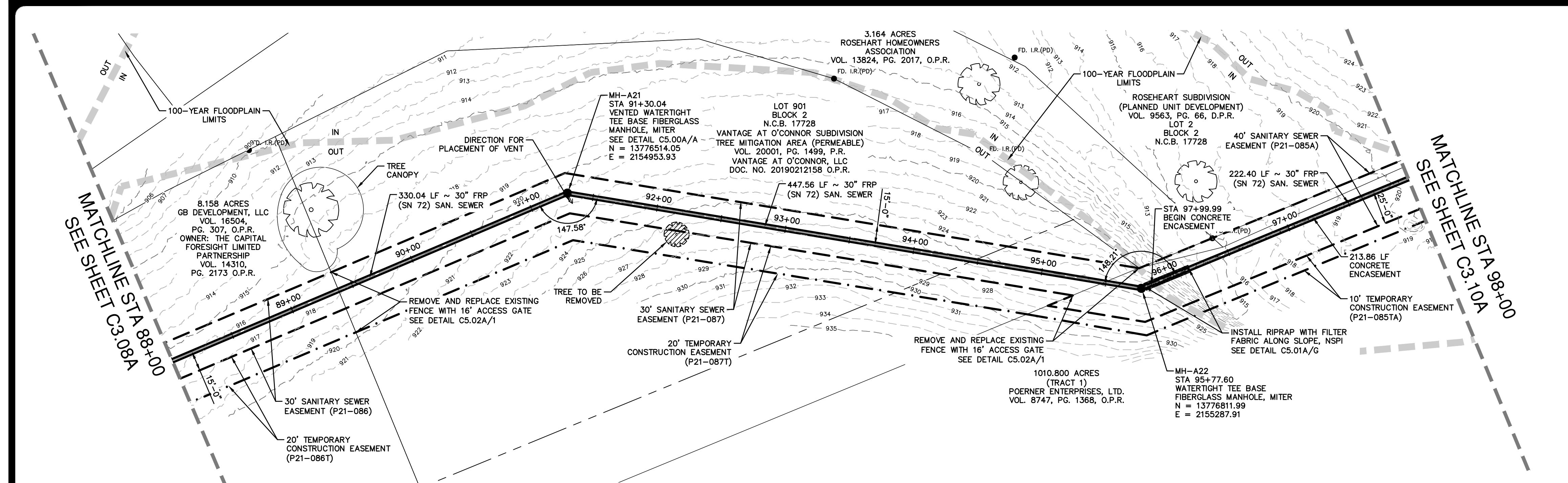
STATE OF TEXAS  
JASON T. DIAMOND  
LICENSED PROFESSIONAL ENGINEER  
6-7-22

**PAPE-DAWSON ENGINEERS**  
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TYPE FIRM REGISTRATION #470 | TBPUS FIRM REGISTRATION #1008890

**SAWS E-54 SANITARY SEWER PROJECT**  
SEGMENT A & FORCE MAIN  
BEXAR COUNTY, TEXAS  
SEGMENT A PLAN AND PROFILE SHEET  
STA 20+00 TO STA 28+00

SAWS JOB NO. 21-4404  
JOB NO. 11500-51  
DATE: JUNE 2022  
DESIGNER: CD  
CHECKED: MP DRAWN: BS  
SHEET: C3.02A

Notes: 1. This drawing was prepared 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.



**LEGEND**

PROPOSED SEWER LINE	
PERMANENT SAN SEWER ESMT	
TEMPORARY CONSTRUCTION ESMT	
PARCEL BOUNDARY LINE	
LIMITS OF 100 YEAR FEMA FLOODPLAIN	
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**30" SANITARY SEWER - SEGMENT A  
STA 88+00 TO STA 98+00**

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

**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
299 (SC14.B&C)	FLOWABLE FILL	CY	56
432	RIPRAP (COMMON) WITH FILTER FABRIC (2" MIN. THICKNESS)	SY	32
507	FENCE GATE 16" TYPE 1	EA	2
508	REMOVE AND REPLACE EXISTING FENCING	LF	100
550	TRENCH EXCAVATION PROTECTION	LF	1,000
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853	TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
853	VENTED TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 5'-10')	LF	130
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857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')	LF	475
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 20'-25')	LF	205
858 (SC14.B&C)	CLASS B - 2,000 PSI CONCRETE ENCASUREMENT	CY	188
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES) (SEGMENT A)	LF	1,000

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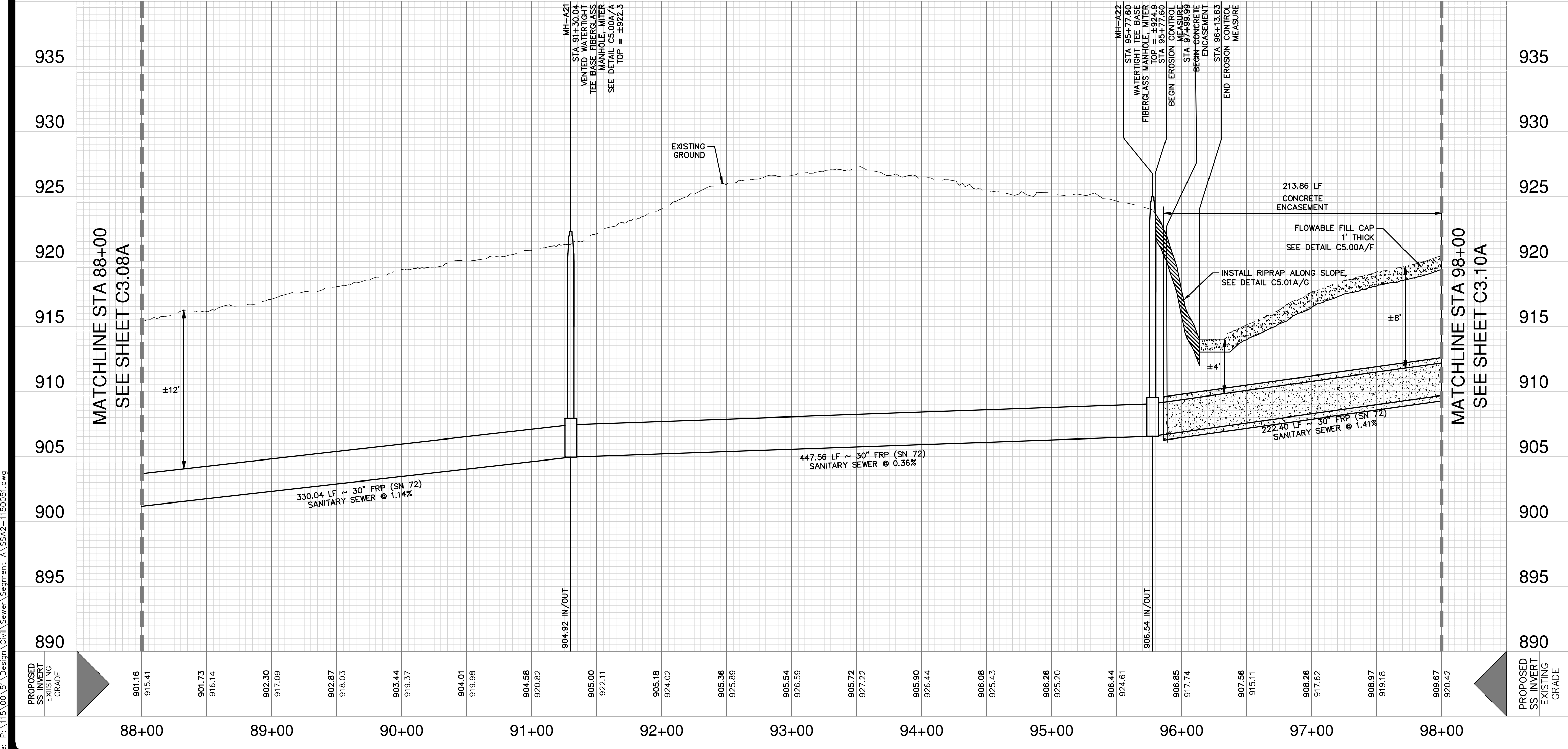
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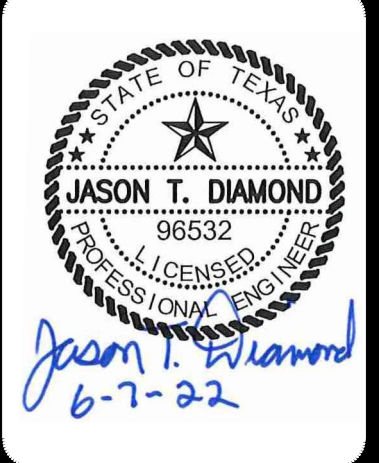
Total Linear Footage of Pipe 3,120 LF ~ 30" HDPE 22 LF ~ 30" HDPE Plat No./N/A  
Number of Lots /N/A TOTAL EDU'S /N/A SAWS JOB NO. 21-4404



DATE: 6/7/22

REVISION: ADDENDUM 1

NO.	REVISION
1	



**PAPE-PAWSON ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TYPE FIRM REGISTRATION #70 | TBPUS FIRM REGISTRATION #1008890

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SEGMENT A & FORCE MAIN  
BEXAR COUNTY, TEXAS  
SEGMENT A PLAN AND PROFILE SHEET  
STA 88+00 TO STA 98+00

SAWS JOB NO. 21-4404

JOB NO. 11500-51

DATE: JUNE 2022

DESIGNER: CD

CHECKED: MP DRAWN: BS

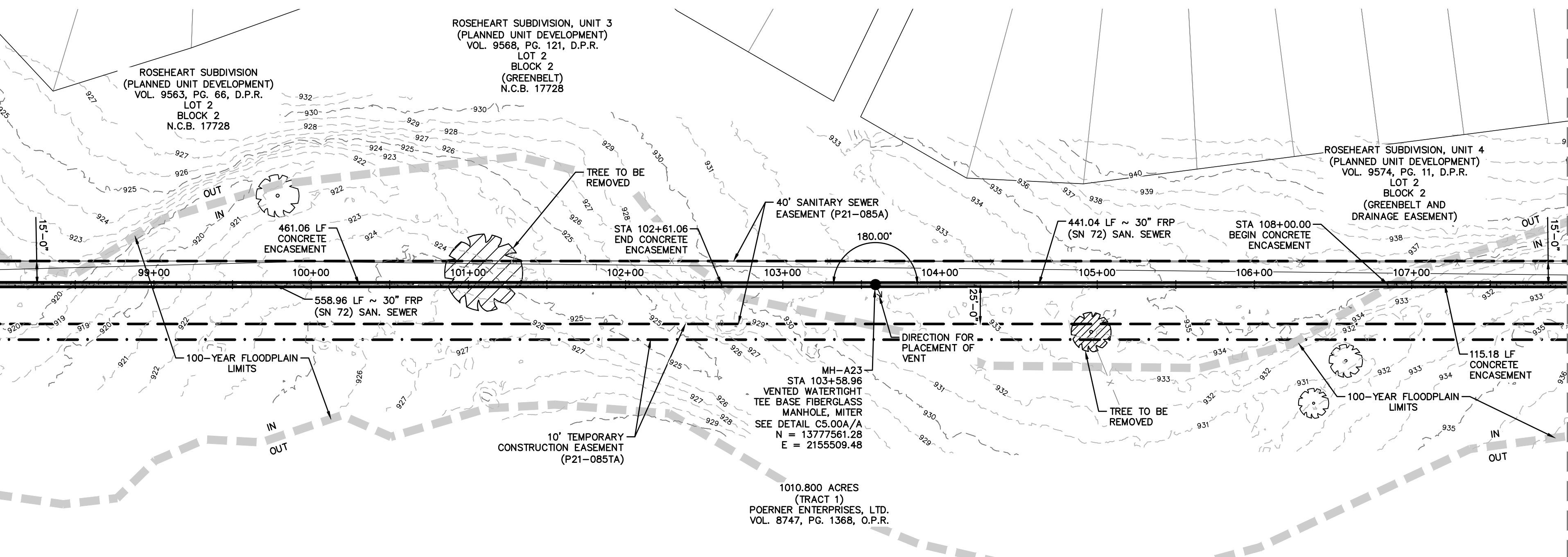
SHEET: C3.09A

Notes: Lin. 03, 6/22, 9:06am, User ID: cally, File: P:\15\00\31\Design\Ch3\Sanitary\Segment A\SSA2-1150051.dwg

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MATCHLINE STA 98+00  
SEE SHEET C3.09A

MATCHLINE STA 108+00  
SEE SHEET C3.11A

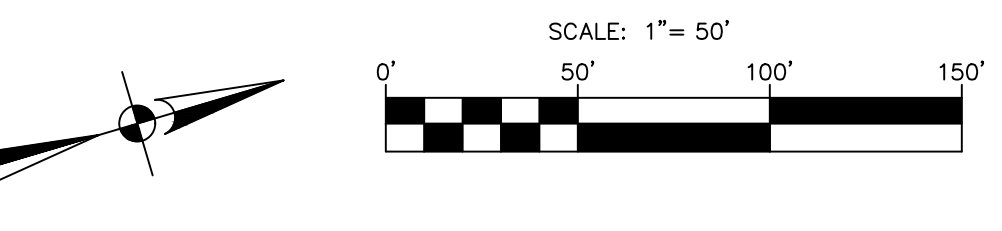
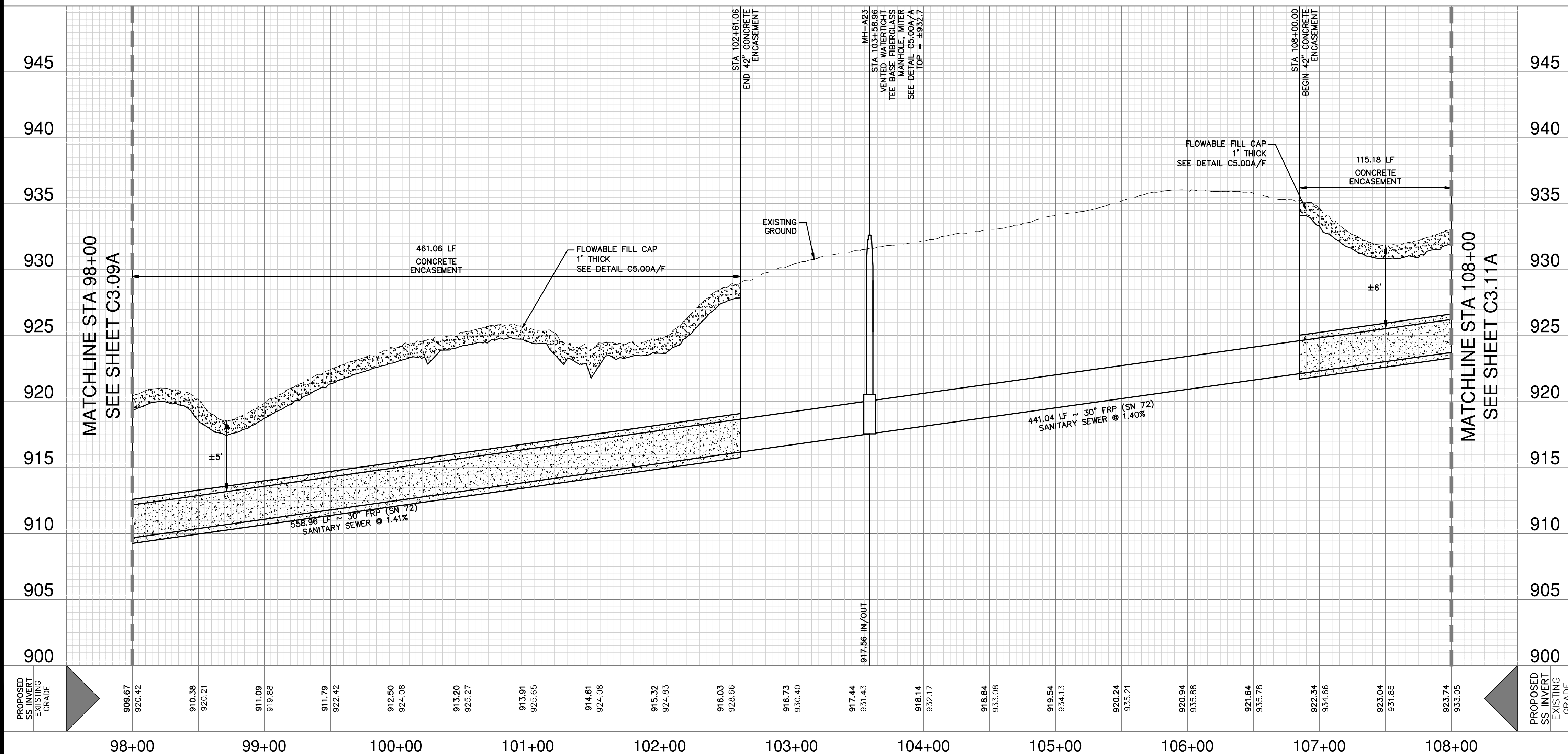


**NOTE**

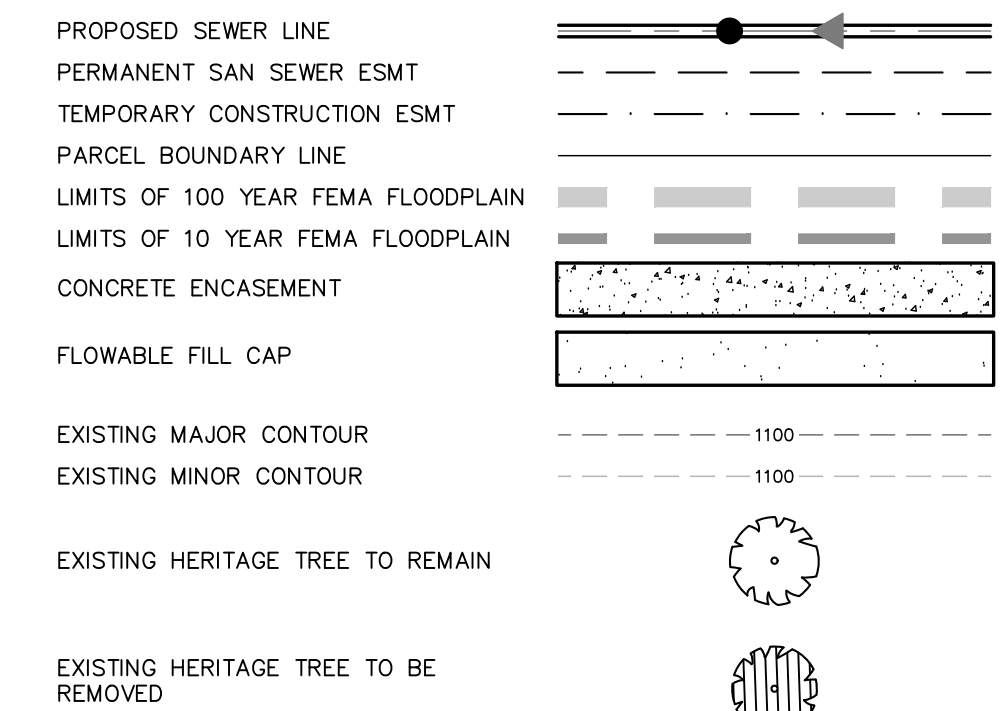
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STA 98+00 TO STA 108+00**

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



**LEGEND**



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239 (SC14.B&C)	FLOWABLE FILL	CY	171
550	TRENCH EXCAVATION PROTECTION	LF	1,000
848.7 (SC14.B&C)	PIPE EXCAVATION/TRENCHING FOR SEGMENT A (MIN 96" WDE) (ALL DEPTHS)	LF	1,000
853	VENTED TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 5'-10')	LF	230
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 10'-15')	LF	705
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')	LF	65
858 (SC14.B&C)	CLASS B - 2,000 PSI CONCRETE ENCASEMENT	CY	593
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES) (SEGMENT A)	LF	1,000

**CAUTION UNDERGROUND UTILITIES**

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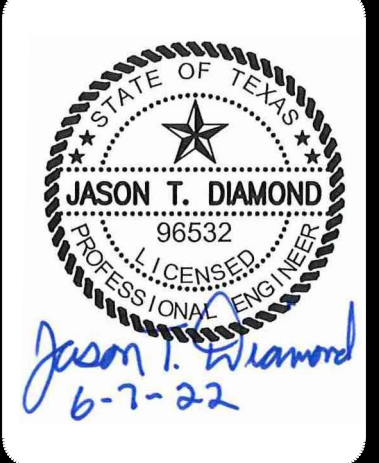
**TRENCH EXCAVATION SAFETY PROTECTION**

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

**SEWER: EAST WATERSHED - DOS RIOS W.R.C.**

Developer's Name: D.R. HORTON  
Address: 211 NORTH LOOP 1604, SUITE 130  
City: SAN ANTONIO State: TEXAS ZIP: 78232  
Phone: (210) 496-2668 FAX: N/A  
SAWS Block Map#: 186650, 186652, 186654, 186656, 186658 Total Acreage: 22.74  
Total Linear Footage of Pipe: 3,120 LF ~ 30" HOPE, 22 LF ~ 30" HOPE, 14 LF ~ 36" HOPE, 15,948 LF ~ 30" FRP  
Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO. 21-4404

DATE	REVISION
6/3/22 <td>ADDENDUM 1 </td>	ADDENDUM 1



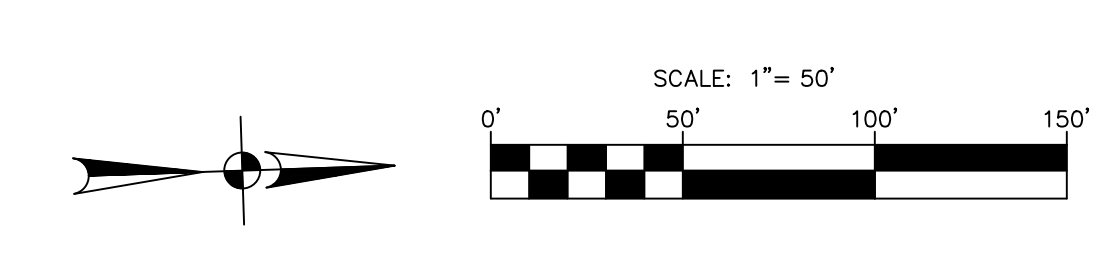
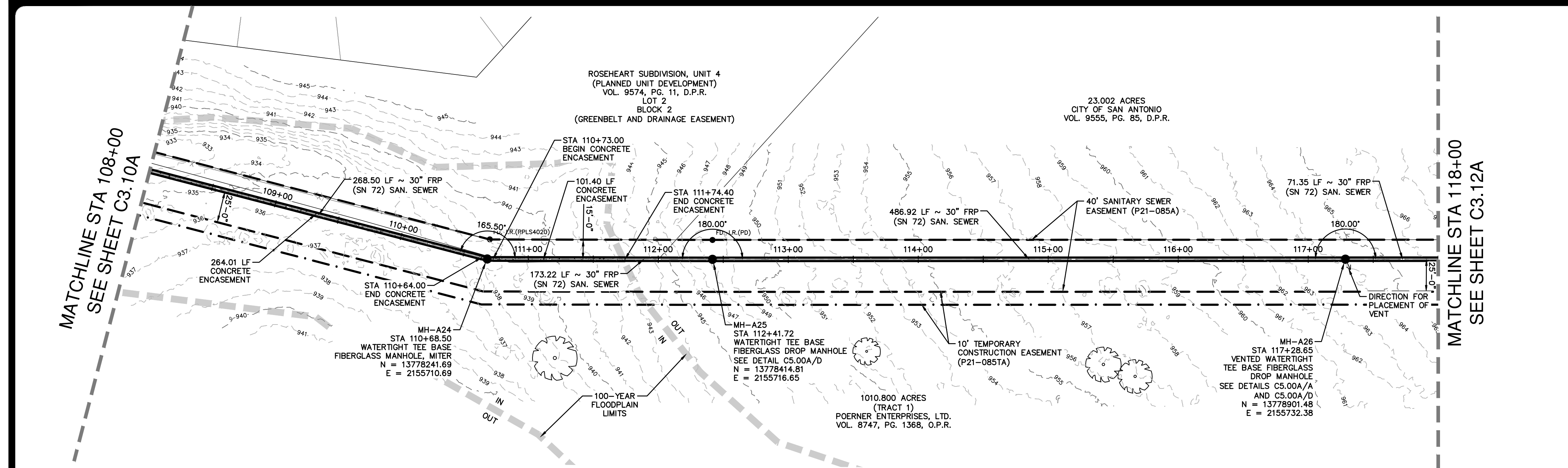
**PAPE-PAWSON ENGINEERS**  
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TBPUS FIRM REGISTRATION #270 | TBPUS FIRM REGISTRATION #1008890

**SAWS E-54 SANITARY SEWER PROJECT**  
SEGMENT A & FORCE MAIN  
BEXAR COUNTY, TEXAS  
SEGMENT A PLAN AND PROFILE SHEET  
STA 98+00 TO STA 108+00

SAWS JOB NO. 21-4404  
JOB NO. 11500-51  
DATE: JUNE 2022  
DESIGNER: CD  
CHECKED: MP DRAWN: BS  
SHEET: C3.10A

Notes: Lin. 03, 6/29, 9/07am, User ID: cally  
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**LEGEND**

- PROPOSED SEWER LINE
- PERMANENT SAN SEWER ESMT
- TEMPORARY CONSTRUCTION ESMT
- PARCEL BOUNDARY LINE
- LIMITS OF 100 YEAR FEMA FLOODPLAIN
- LIMITS OF 10 YEAR FEMA FLOODPLAIN
- CONCRETE ENCASEMENT
- FLOWABLE FILL CAP
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING HERITAGE TREE TO REMAIN
- EXISTING HERITAGE TREE TO BE REMOVED

**NOTE**

- THE CONTRACTOR SHALL RELOCATE ANY UNUSED AND EXCESS TOPSOIL REMOVED FROM THE PIPELINE TRENCH TO A MUTUALLY-AGREEABLE PLACE ON THE POERNER ENTERPRISES ADJACENT PROPERTY.
- CONTRACTOR MUST MAINTAIN ACCESS FOR QUARRY OPERATIONS AT ALL TIMES.

**30" SANITARY SEWER - SEGMENT A  
STA108+00 TO STA 118+00**

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

**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
299 (SC14.B&C)	FLOWABLE FILL	CY	109
550	TRENCH EXCAVATION PROTECTION	LF	1,000
848.7 (SC14.B&C)	PIPE EXCAVATION/TRENCHING FOR SEGMENT A (MIN 96" WDE) (ALL DEPTHS)	LF	1,000
853	TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
853	TEE BASE FIBERGLASS DROP MANHOLE	EA	1
853	VENTED TEE BASE FIBERGLASS DROP MANHOLE	EA	1
857 (SC14.B&C)	30" FRP (ASTM D-3262) (SN 72) (OPEN CUT 5'-10')	LF	225
857 (SC14.B&C)	30" FRP (ASTM D-3262) (SN 72) (OPEN CUT 10'-15')	LF	610
857 (SC14.B&C)	30" FRP (ASTM D-3262) (SN 72) (OPEN CUT 15'-20')	LF	165
858 (SC14.B&C)	CLASS B - 2,000 PSI CONCRETE ENCASEMENT	CY	321
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES) (SEGMENT A)	LF	1,000

**CAUTION UNDERGROUND UTILITIES**

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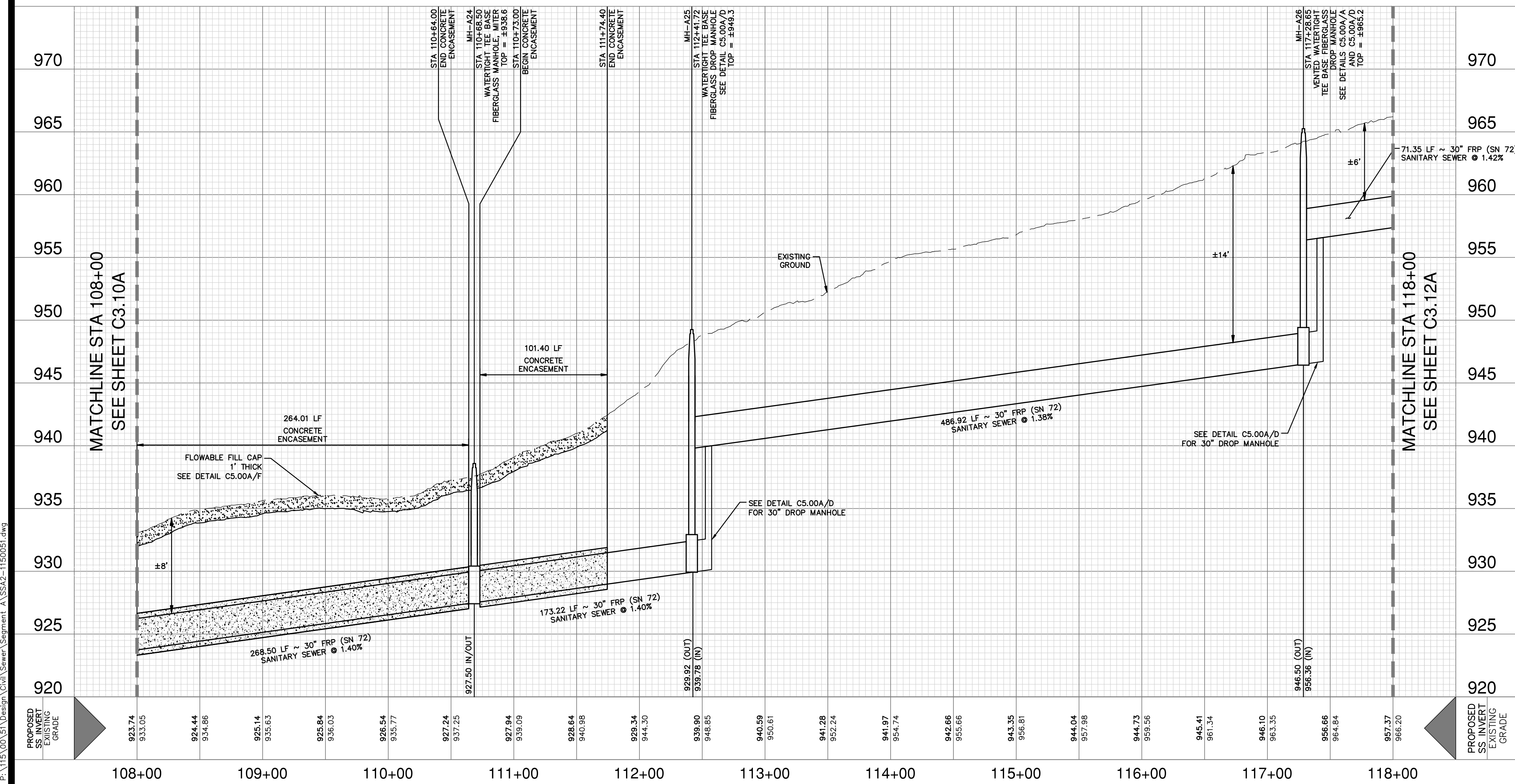
**TRENCH EXCAVATION SAFETY PROTECTION**

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**SEWER: EAST WATERSHED - DOS RIOS W.R.C.**  
SAWS E-54 SANITARY SEWER PROJECT

Developer's Name: D.R. HORTON  
Address: 211 NORTH LOOP 1604, SUITE 130  
City: SAN ANTONIO State: TEXAS ZIP: 78232

Phone# (210) 496-2668 FAX# N/A  
184646,184648,184650,186642,186644,186646  
SAWS Block Map# 186650,186652,186654,186656,186658 Total Acreage 22.74  
Total Linear Footage of Pipe 3,120 LF ~ 30" HDPE 22 LF ~ 30" HDPE Plat No./N/A  
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 21-4404



DATE: 6/3/22  
REVISION: ADDENDUM 1  
NO. 1

**JASON T. DIAMOND**  
LICENSED PROFESSIONAL ENGINEER  
6-7-22

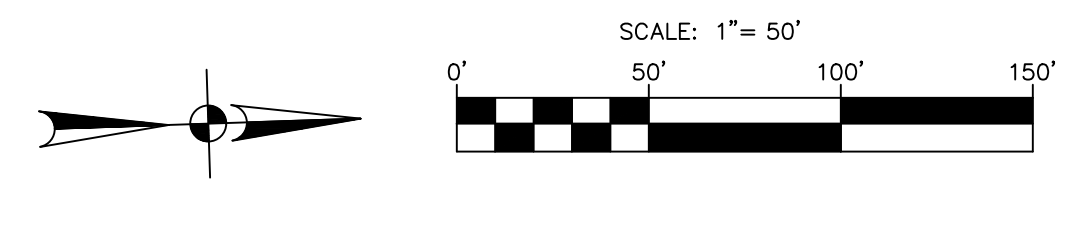
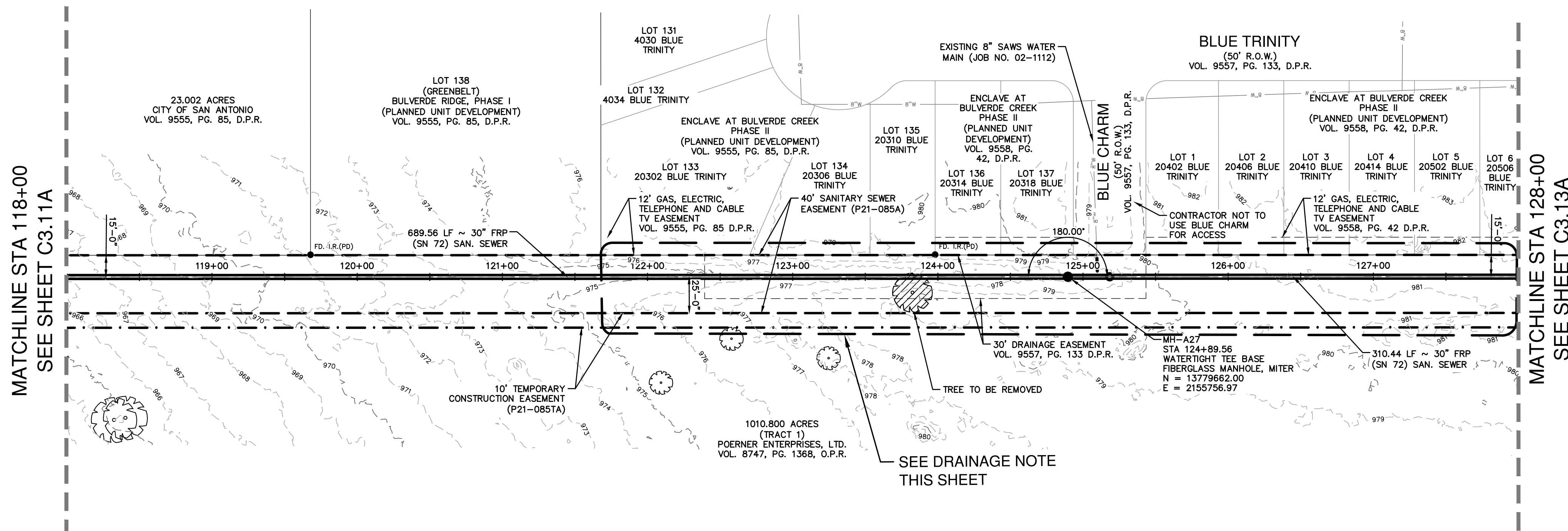
**PAPE-PAWSON ENGINEERS**  
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TYPE FIRM REGISTRATION #070 | TBPUS FIRM REGISTRATION #1008890

**SAWS E-54 SANITARY SEWER PROJECT**  
SEGMENT A & FORCE MAIN  
BEXAR COUNTY, TEXAS  
SEGMENT A PLAN AND PROFILE SHEET  
STA108+00 TO STA 118+00

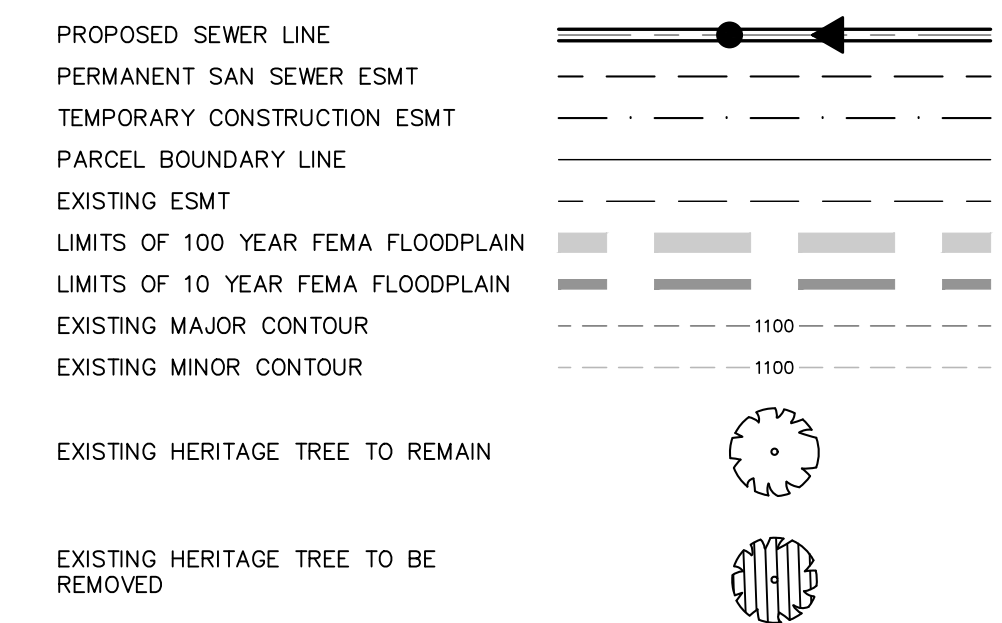
SAWS JOB NO. 21-4404  
JOB NO. 11500-51  
DATE: JUNE 2022  
DESIGNER: CD  
CHECKED: MP DRAWN: BS  
SHEET: C3.11A

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**LEGEND**



**DRAINAGE NOTE**

DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN POSITIVE DRAINAGE THROUGH ALL EXISTING DRAINAGE CHANNELS AND STRUCTURES AND PREVENT ANY SURFACE DRAINAGE FROM ACCUMULATING WITHIN EXISTING EASEMENTS. ANY DAMAGE TO PRIVATE PROPERTY AND PUBLIC UTILITIES SHALL BE REPAIRED TO ITS ORIGINAL CONDITION OR BETTER AT THE SOLE EXPENSE OF THE CONTRACTOR.

FINAL GRADING SHALL BE FREE OF BARRIERS THAT COULD RESTRICT DRAINAGE FLOW. FINAL GRADING BY THE CONTRACTOR SHALL PREVENT ANY DISRUPTION IN DRAINAGE FLOW THROUGHOUT THE EXISTING DRAINAGE CHANNELS AND THEIR RESPECTIVE OUTFALLS.

**NOTE**

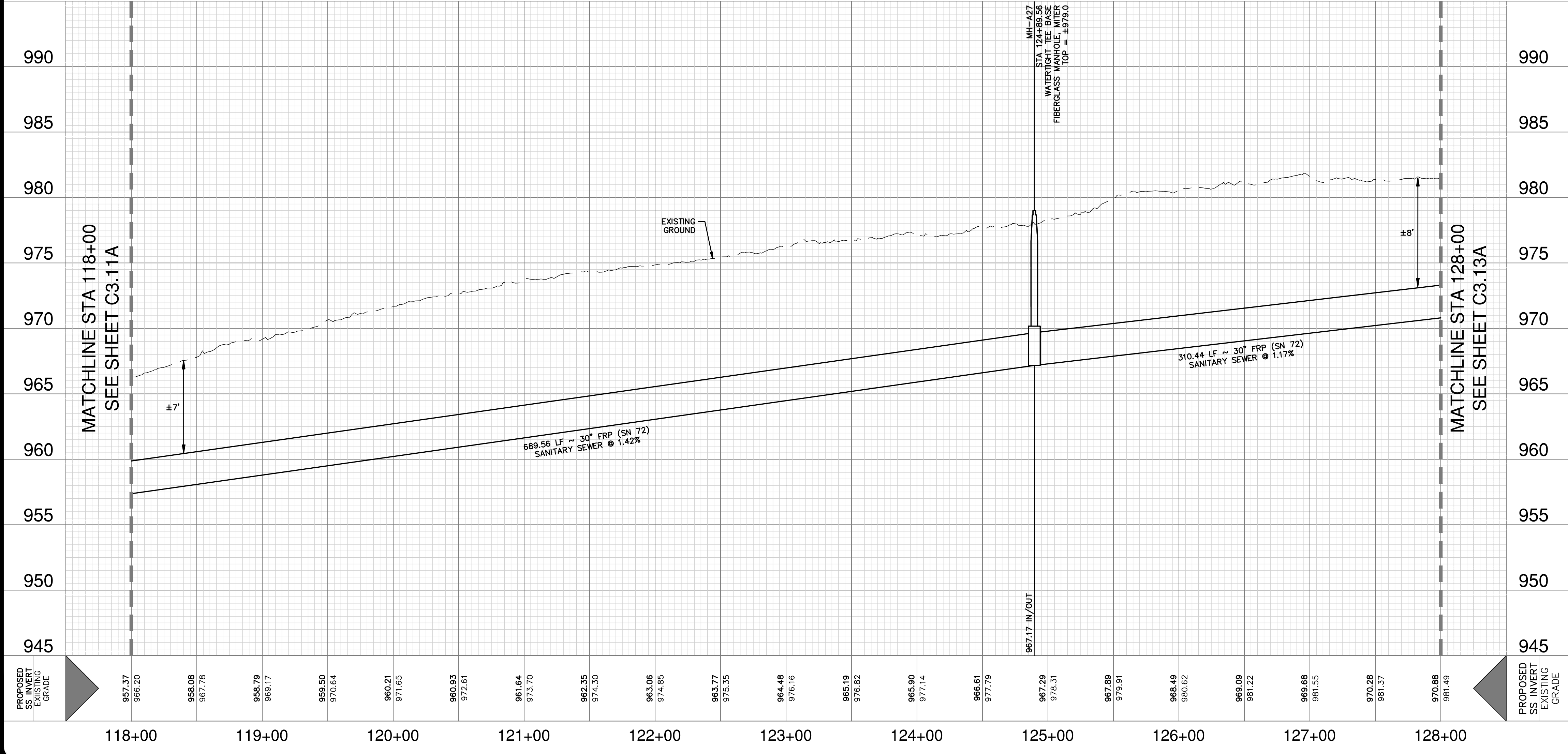
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2. CONTRACTOR MUST MAINTAIN ACCESS FOR QUARRY OPERATIONS AT ALL TIMES.

**30" SANITARY SEWER - SEGMENT A  
STA 118+00 TO STA 128+00**

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

**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
550	TRENCH EXCAVATION PROTECTION	LF	1,000
848.7 (SC14.B&C)	PIPE EXCAVATION/TRENCHING FOR SEGMENT A (MIN 96" WIDE) (ALL DEPTHS)	LF	1,000
853	TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 5'-10')	LF	50
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 10'-15')	LF	950
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES) (SEGMENT A)	LF	1,000



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**SEWER: EAST WATERSHED - DOS RIOS W.R.C.**

SAWS E-54 SANITARY SEWER PROJECT

Developer's Name: D.R. HORTON  
Address: 211 NORTH LOOP 1604, SUITE 130  
City: SAN ANTONIO State: TEXAS ZIP: 78232  
Phone#: (210) 496-2668 FAX#: N/A  
184646,184648,184650,186642,186644,186646  
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14 LF ~ 30" FRP, 15,948 LF ~ 30" FRP  
Total Linear Footage of Pipe 3,120 LF ~ 20" HDPE, 22 LF ~ 30" HDPE Plot No./N/A  
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 21-4404

**PAPE-PAWSON ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TYPE FIRM REGISTRATION #070 | TBPUS FIRM REGISTRATION #1008890

**SAWS E-54 SANITARY SEWER PROJECT**

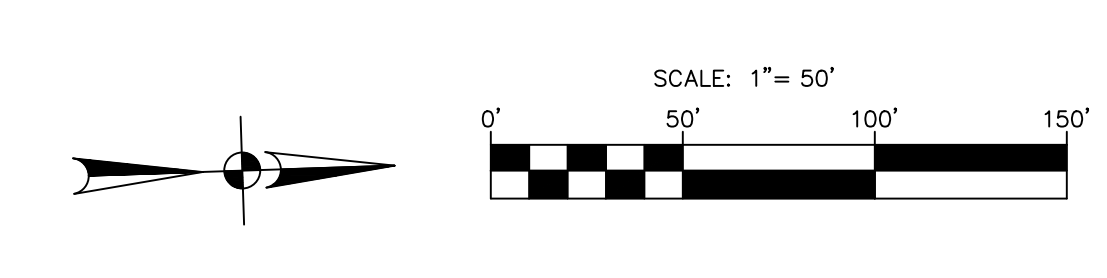
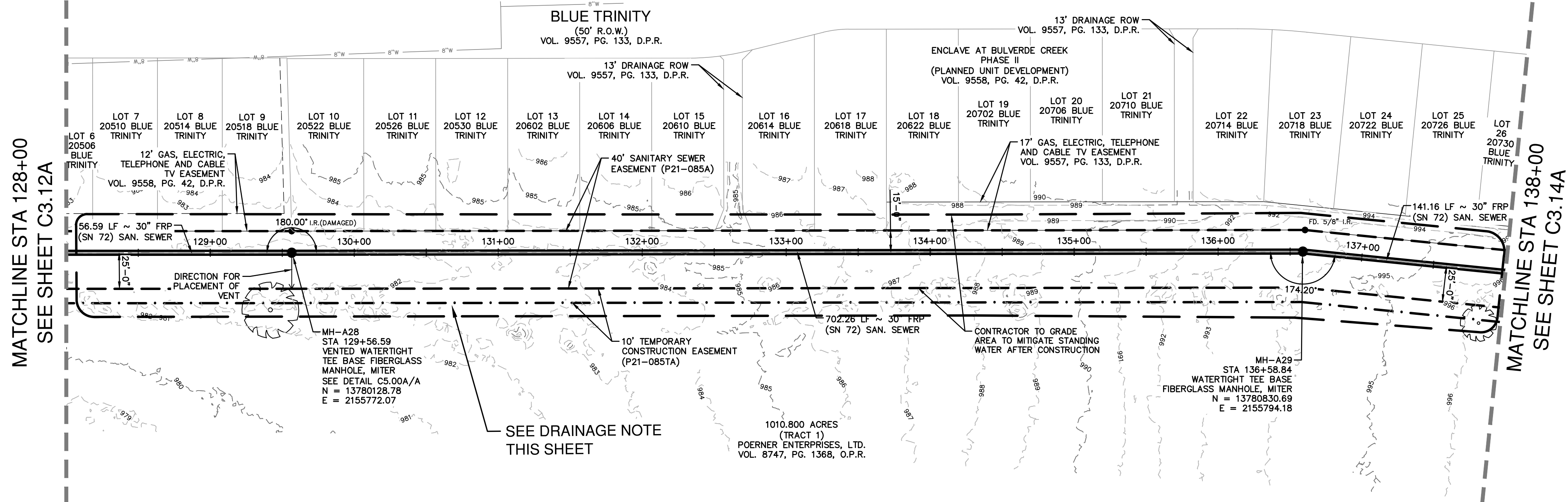
SEGMENT A & FORCE MAIN  
BEXAR COUNTY, TEXAS  
SEGMENT A PLAN AND PROFILE SHEET  
STA 118+00 TO STA 128+00

SAWS JOB NO. 21-4404  
JOB NO. 11500-51  
DATE: JUNE 2022  
DESIGNER: CD  
CHECKED: MP DRAWN: BS  
SHEET: C3.12A

Notes: Aut. CS, 6/29/23, 9:08am, User ID: cally, File: P:\15\20\31\Design\Ch3\SanSewer\Segment A\SSA2-1150051.dwg

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**LEGEND**

- PROPOSED SEWER LINE
- PERMANENT SAN SEWER ESMT
- TEMPORARY CONSTRUCTION ESMT
- PARCEL BOUNDARY LINE
- EXISTING ESMT
- LIMITS OF 10 YEAR FEMA FLOODPLAIN
- LIMITS OF 10 YEAR FEMA FLOODPLAIN
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING HERITAGE TREE TO REMAIN
- EXISTING HERITAGE TREE TO BE REMOVED

DATE: 6/3/22  
 NO. REVISION: ADDENDUM 1  
 STATE OF TEXAS  
 JASON I. DIAMOND  
 LICENSED PROFESSIONAL ENGINEER  
 6-7-22

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**30" SANITARY SEWER - SEGMENT A  
 STA 128+00 TO STA 138+00**

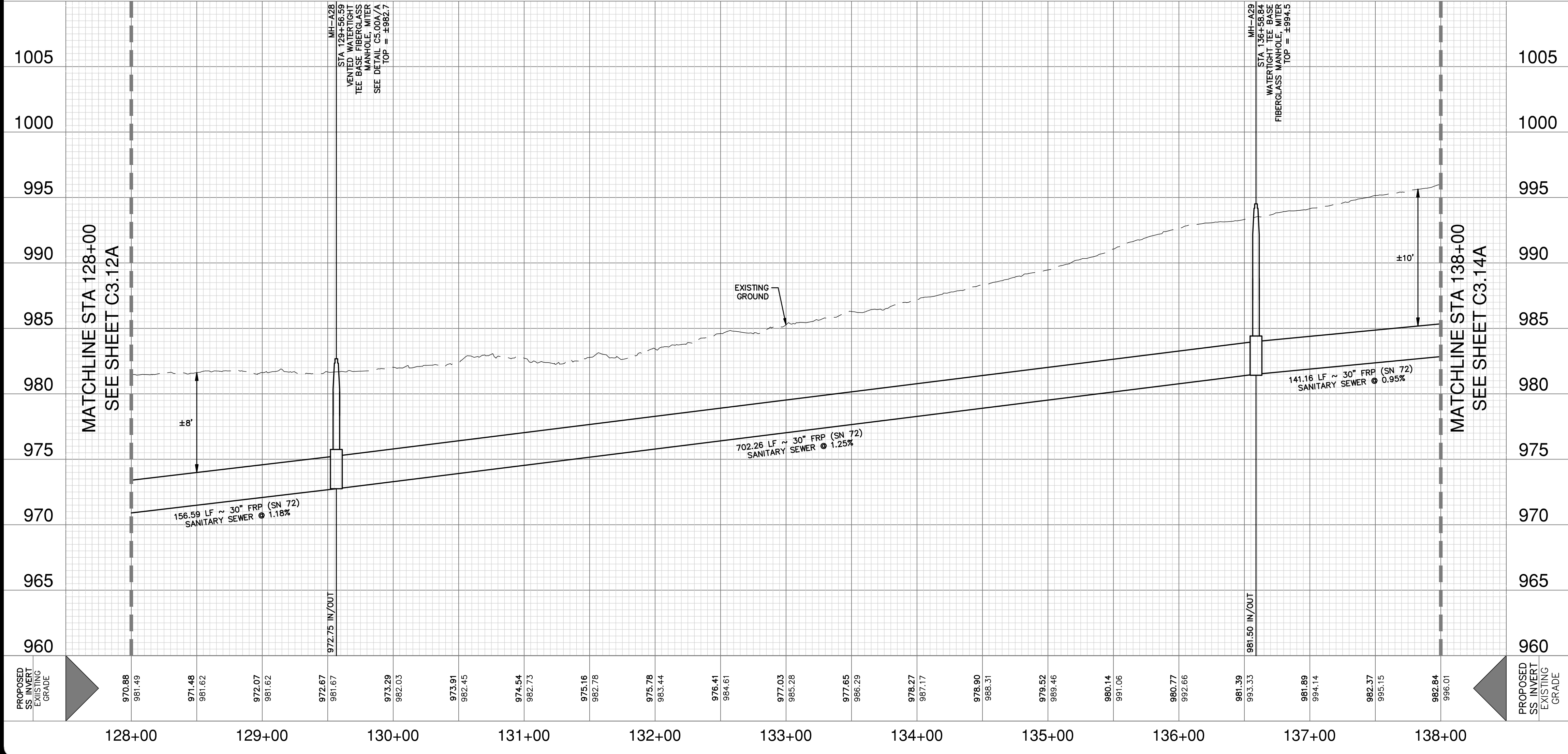
HORIZONTAL SCALE 1" = 50' H  
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**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
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853	TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
853	VENTED TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 10'-15')	LF	615
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')	LF	385
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES) (SEGMENT A)	LF	1,000

**PAPE-PAWSON ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
 TYPE FIRM REGISTRATION #270 | TBPUS FIRM REGISTRATION #10088890



**CAUTION UNDERGROUND UTILITIES**

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

**SEWER: EAST WATERSHED - DOS RIOS W.R.C.**

SAWS E-54 SANITARY SEWER PROJECT

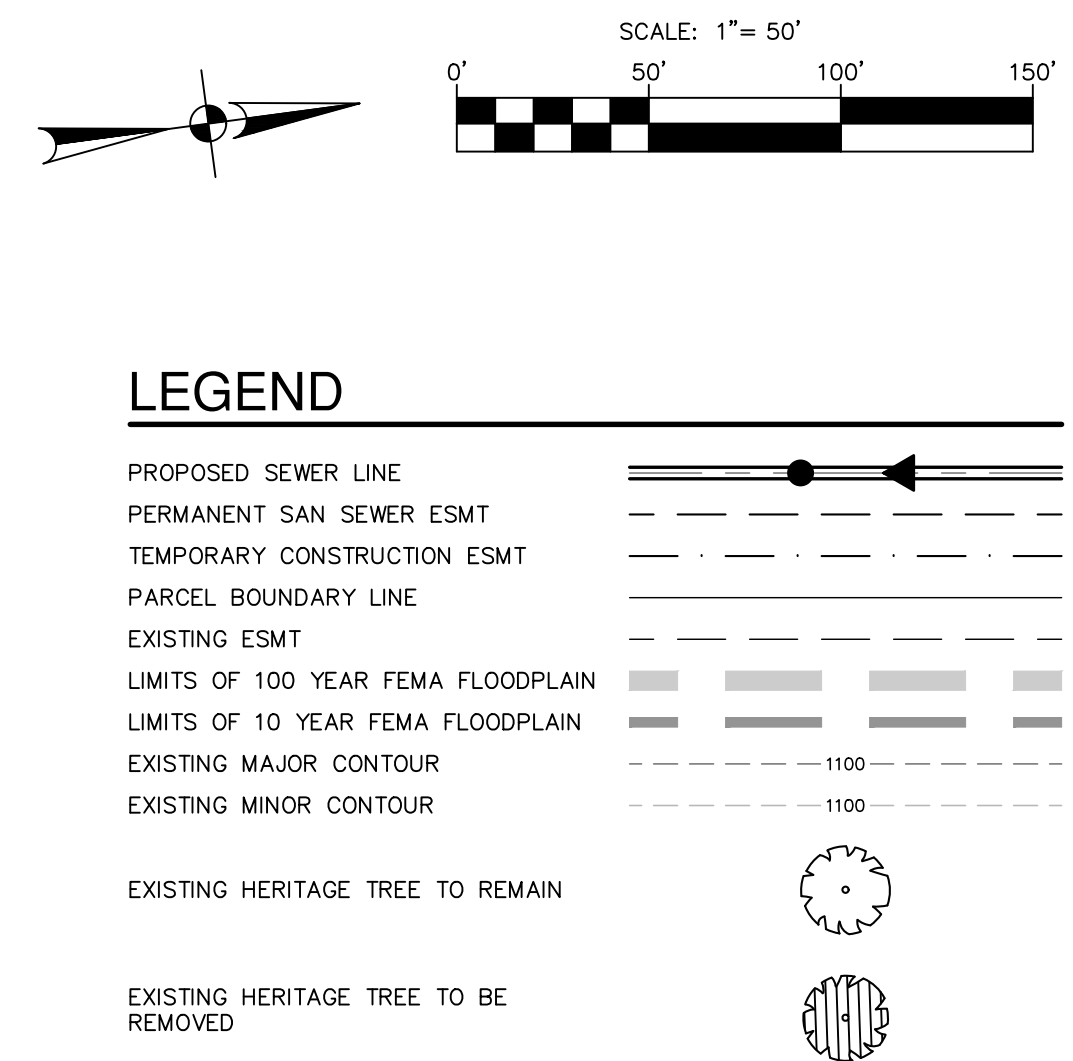
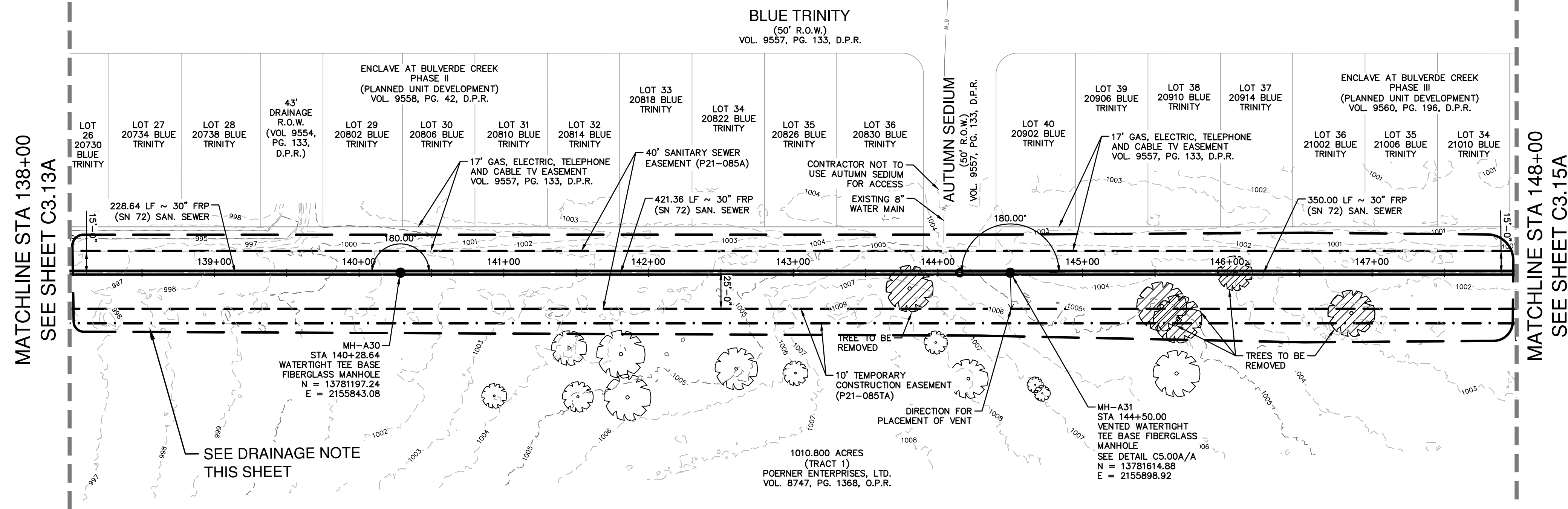
Developer's Name: D.R. HORTON  
 Address: 211 NORTH LOOP 1604, SUITE 130  
 City: SAN ANTONIO State: TEXAS ZIP: 78232  
 Phone: (210) 496-2668 FAX: N/A  
 184646,184648,184650,186642,186644,186646  
 SAWS Block Map# 186650,186652,186654,186656,186658,190658 Total Acreage 22.74  
 14 LF ~ 30" FRP, 15,948 LF ~ 30" FRP  
 Total Linear Footage of Pipe 3,120 LF ~ 20" HDPE, 22 LF ~ 30" HDPE Plot No./N/A  
 Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 21-4404

**SAWS E-54 SANITARY SEWER PROJECT**  
 SEGMENT A & FORCE MAIN  
 BEXAR COUNTY, TEXAS  
 SEGMENT A PLAN AND PROFILE SHEET  
 STA 128+00 TO STA 138+00

SAWS JOB NO. 21-4404  
 JOB NO. 11500-51  
 DATE: JUNE 2022  
 DESIGNER: CD  
 CHECKED: MP DRAWN: BS  
 SHEET: C3.13A

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**DRAINAGE NOTE**

DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN POSITIVE DRAINAGE THROUGH ALL EXISTING DRAINAGE CHANNELS AND STRUCTURES AND PREVENT ANY SURFACE DRAINAGE FROM ACCUMULATING WITHIN EXISTING EASEMENTS. ANY DAMAGE TO PRIVATE PROPERTY AND PUBLIC UTILITIES SHALL BE REPAIRED TO ITS ORIGINAL CONDITION OR BETTER AT THE SOLE EXPENSE OF THE CONTRACTOR.

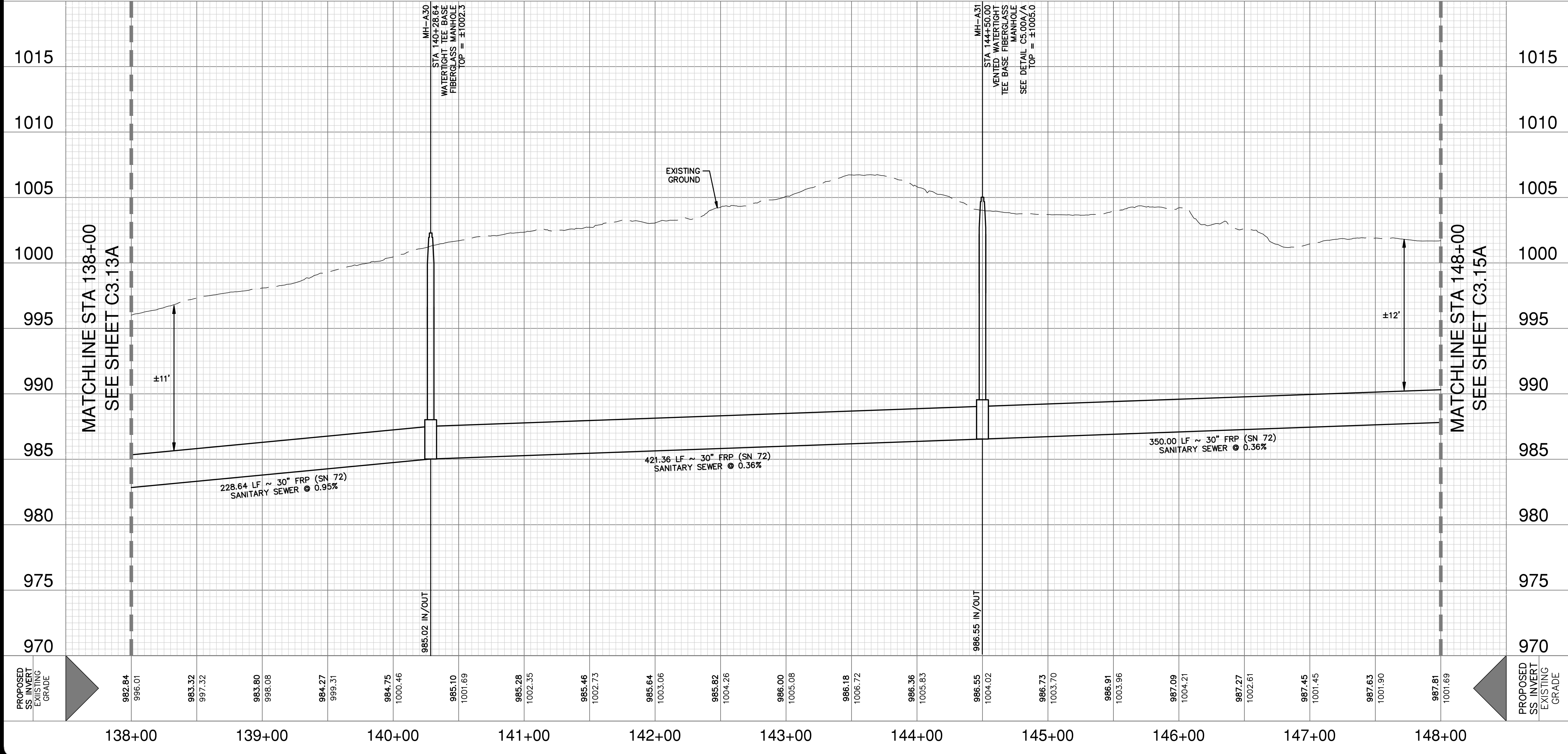
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**NOTE**

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- CONTRACTOR MUST MAINTAIN ACCESS FOR QUARRY OPERATIONS AT ALL TIMES.

**30" SANITARY SEWER - SEGMENT A  
STA 138+00 TO STA 148+00**

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



**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
550	TRENCH EXCAVATION PROTECTION	LF	1,000
848.7 (SC14.B&C)	PIPE EXCAVATION/TRENCHING FOR SEGMENT A (MIN 96" WIDE) (ALL DEPTHS)	LF	1,000
853	TEE BASE FIBERGLASS MANHOLE	EA	1
853	VENTED TEE BASE FIBERGLASS MANHOLE	EA	1
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 10'-15')	LF	275
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')	LF	660
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 20'-25')	LF	65
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES) (SEGMENT A)	LF	1,000

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**SEWER: EAST WATERSHED - DOS RIOS W.R.C.**  
SAWS E-54 SANITARY SEWER PROJECT

Developer's Name: D.R. HORTON  
Address: 211 NORTH LOOP 1604, SUITE 130  
City: SAN ANTONIO State: TEXAS Zip: 78232

Phone: (210) 496-2668 FAX: N/A  
184646,184648,184650,186642,186644,186646  
SAWS Block Map# 186650,186652,186654,186656,186658,190658 Total Acreage 22.74  
14 LF ~ 36" FRP, 15 LF ~ 30" FRP  
Total Linear Footage of Pipe 3,120 LF ~ 24" HDPE, 22 LF ~ 30" HDPE, 22 LF ~ 30" FRP  
Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO. 21-4404

DATE: 6/7/22  
REVISION: ADDENDUM 1

JOHN DIAMOND  
6-7-22

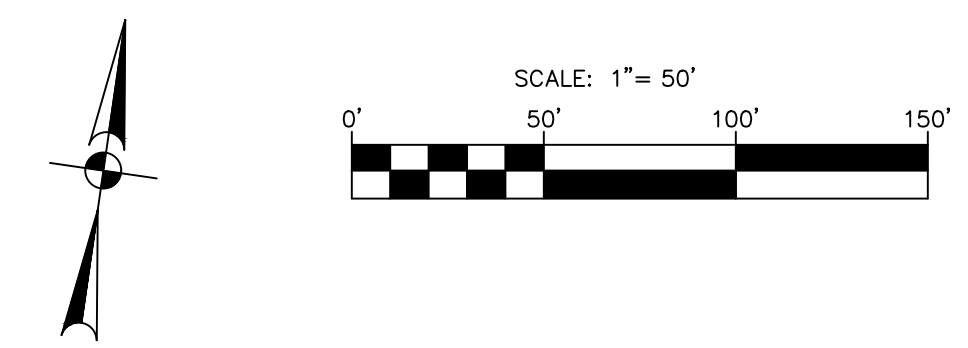
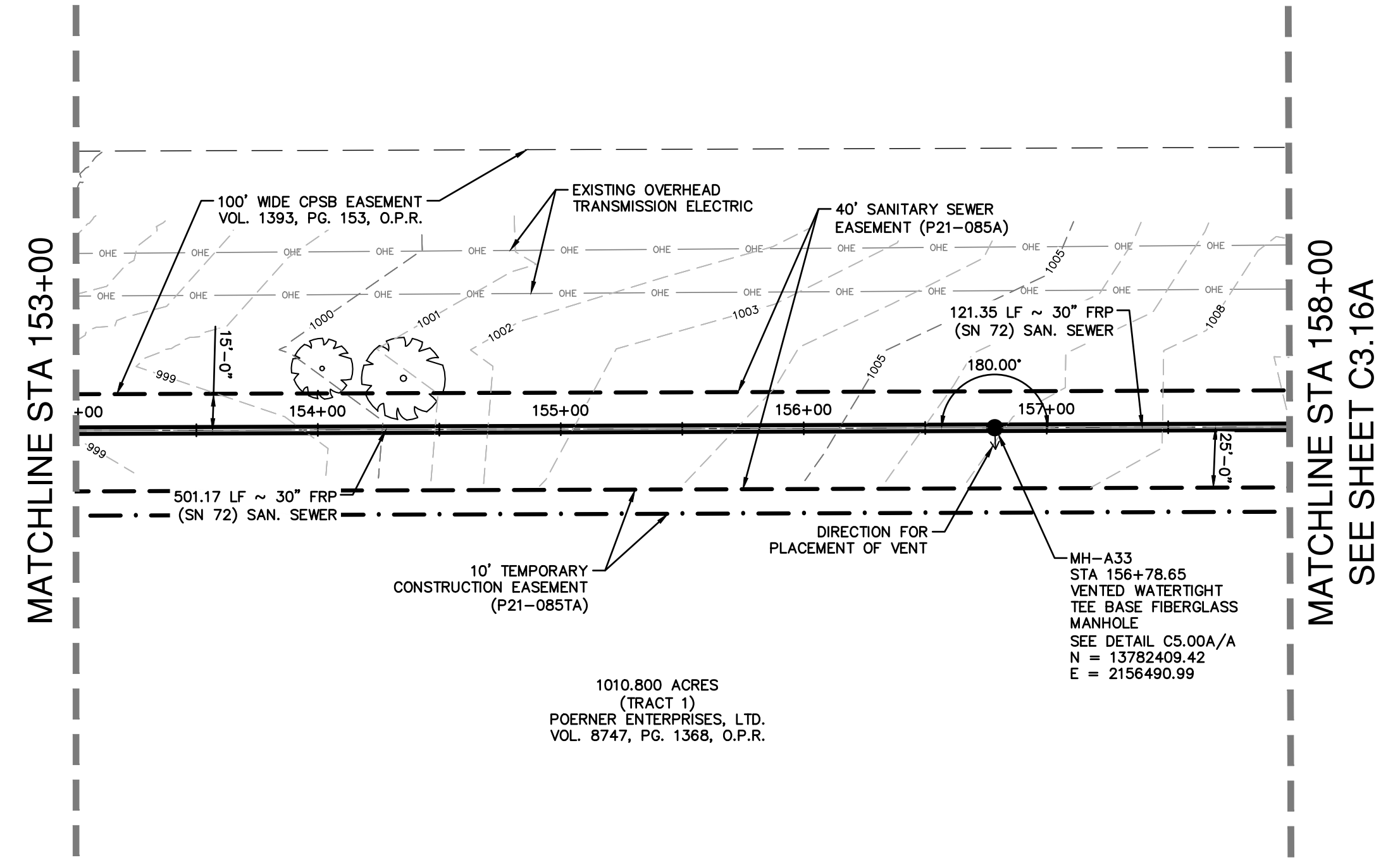
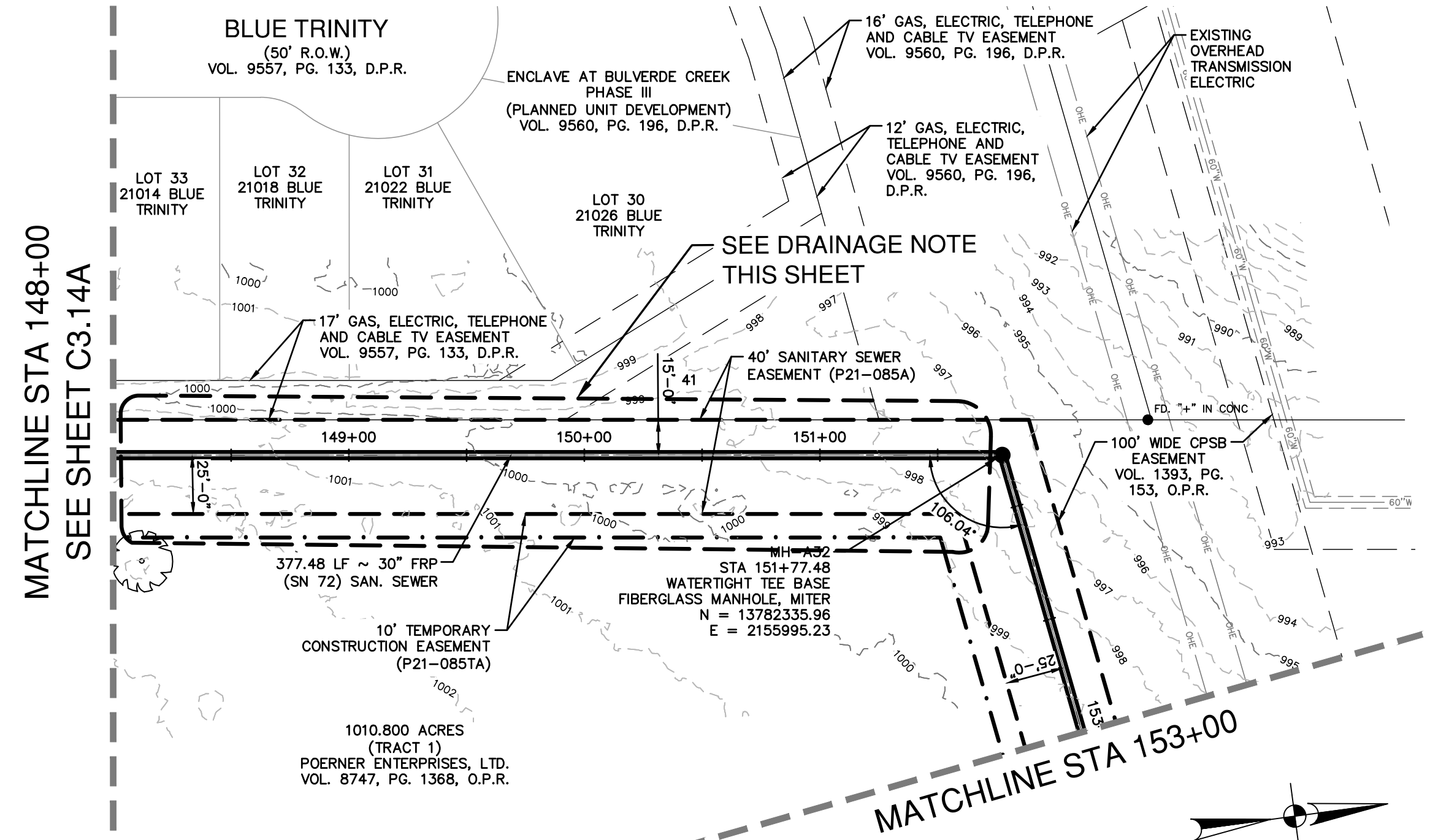
**PAPE-PAWSON ENGINEERS**  
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TYPE FIRM REGISTRATION #970 | TYPE FIRM REGISTRATION #1008890

**SAWS E-54 SANITARY SEWER PROJECT**  
SEGMENT A & FORCE MAIN  
BEXAR COUNTY, TEXAS  
SEGMENT A PLAN AND PROFILE SHEET  
STA 138+00 TO STA 148+00

SAWS JOB NO. 21-4404  
JOB NO. 11500-51  
DATE: JUNE 2022  
DESIGNER: CD  
CHECKED: MP DRAWN: BS  
SHEET: C3.14A

Notes: 1. This drawing was prepared from a scan of the original drawing. The user ID: cefilly. File: P:\15\100\31\Design\City\SanAntonio\Segment A\SSA2-1150051.dwg

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**LEGEND**

- PROPOSED SEWER LINE
- PERMANENT SAN SEWER ESMT
- TEMPORARY CONSTRUCTION ESMT
- PARCEL BOUNDARY LINE
- EXISTING ESMT
- LIMITS OF 100 YEAR FEMA FLOODPLAIN
- LIMITS OF 10 YEAR FEMA FLOODPLAIN
- EXISTING OVERHEAD ELECTRIC
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING HERITAGE TREE TO REMAIN
- EXISTING HERITAGE TREE TO BE REMOVED

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**NOTE**

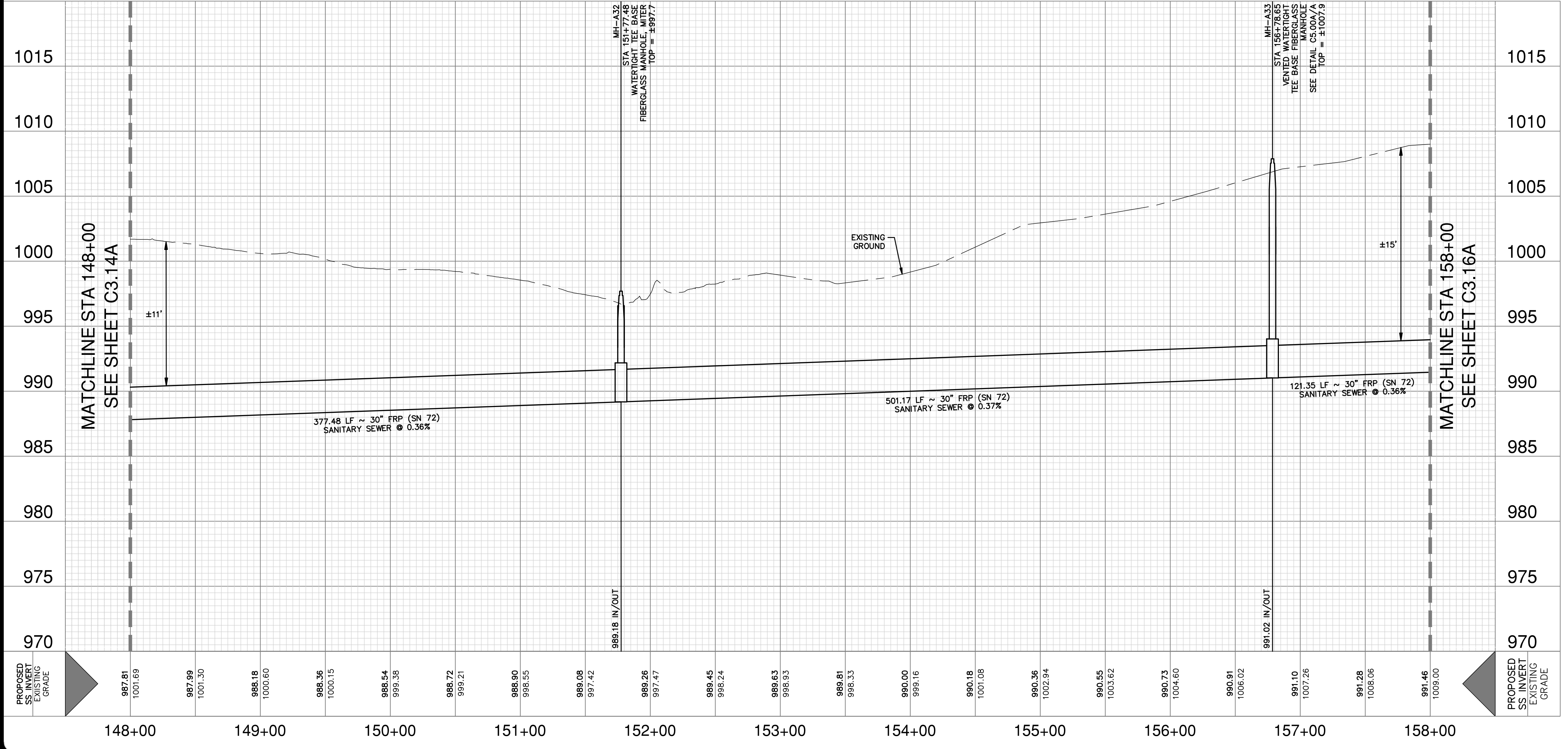
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**30" SANITARY SEWER - SEGMENT A  
STA 148+00 TO STA 158+00**

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

**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
550	TRENCH EXCAVATION PROTECTION	LF	1,000
848.7 (SC14.B&C)	PIPE EXCAVATION/TRENCHING FOR SEGMENT A (MIN 96" WIDE) (ALL DEPTHS)	LF	1,000
853	TEE BASE FIBERGLASS MANHOLE, MITER	EA	1
853	VENTED TEE BASE FIBERGLASS MANHOLE	EA	1
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 5'-10')	LF	345
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 10'-15')	LF	500
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')	LF	155
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES) (SEGMENT A)	LF	1,000



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**SEWER: EAST WATERSHED - DOS RIOS W.R.C.**

SAWS E-54 SANITARY SEWER PROJECT

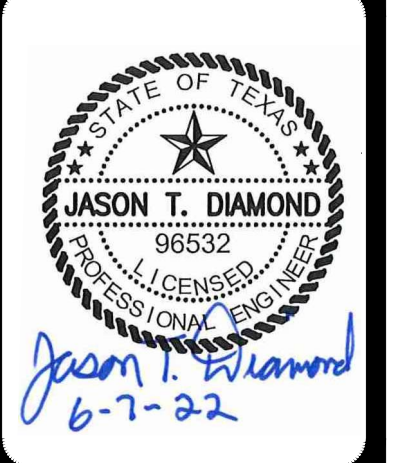
Developer's Name: D.R. HORTON  
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City: SAN ANTONIO State: TEXAS ZIP: 78232

Phone# (210) 498-2668 FAX# N/A  
184646,184648,184650,186642,186644,186646  
SAWS Block Map# 186650,186652,186654,186656,186658 Total Acreage 22.74  
Total Linear Footage of Pipe 3,120 LF ~ 30" HDPE 22 LF ~ 30" HDPE Plat No./N/A  
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 21-4404

DATE: 6/3/22

NO. 1

REVISION: ADDENDUM 1



**PAPE-PAWSON ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TYPE FIRM REGISTRATION #070 | TYPE FIRM REGISTRATION #1008890

**SAWS E-54 SANITARY SEWER PROJECT**

SEGMENT A & FORCE MAIN  
BEXAR COUNTY, TEXAS

SEGMENT A PLAN AND PROFILE SHEET  
STA 148+00 TO STA 158+00

SAWS JOB NO. 21-4404

JOB NO. 11500-51

DATE: JUNE 2022

DESIGNER: CD

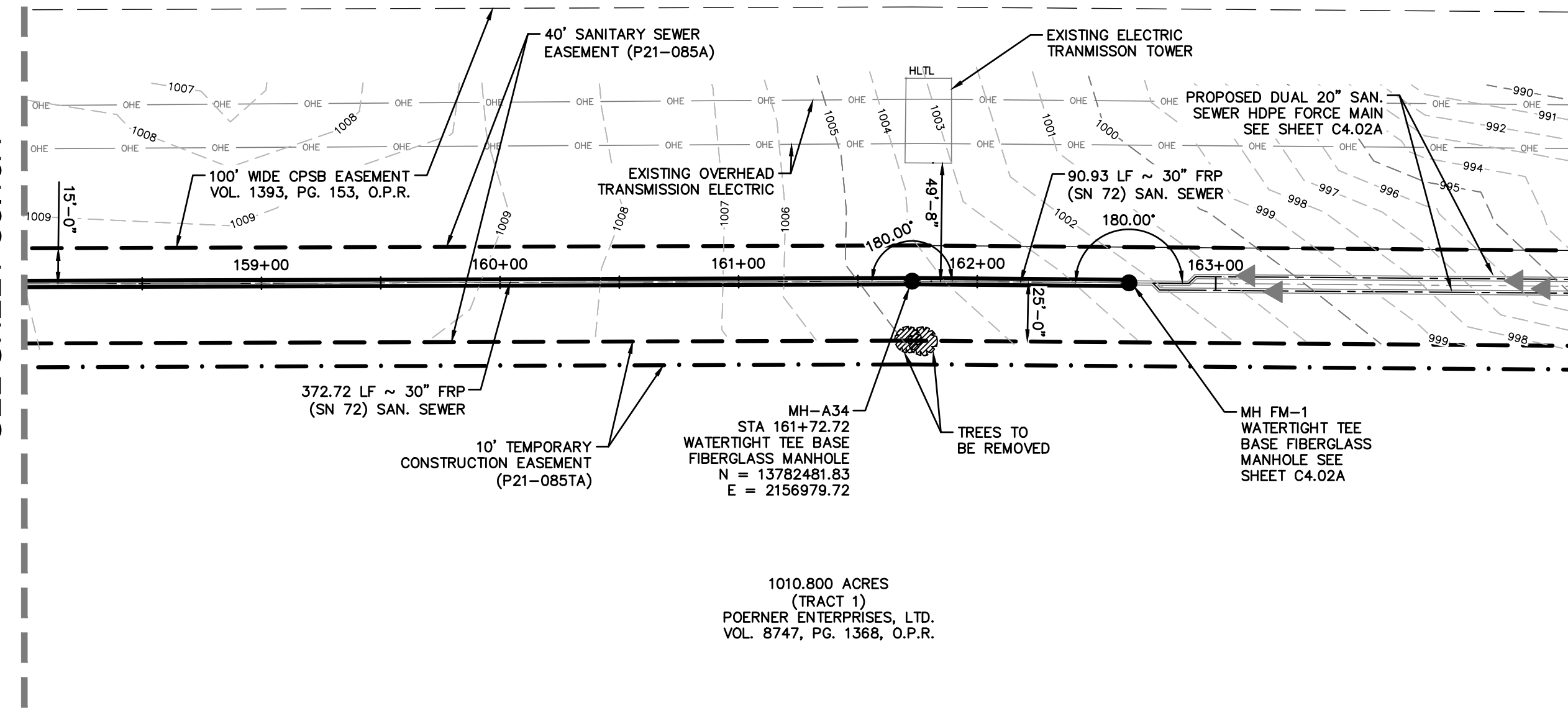
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MATCHLINE STA 158+00  
SEE SHEET C3.15A



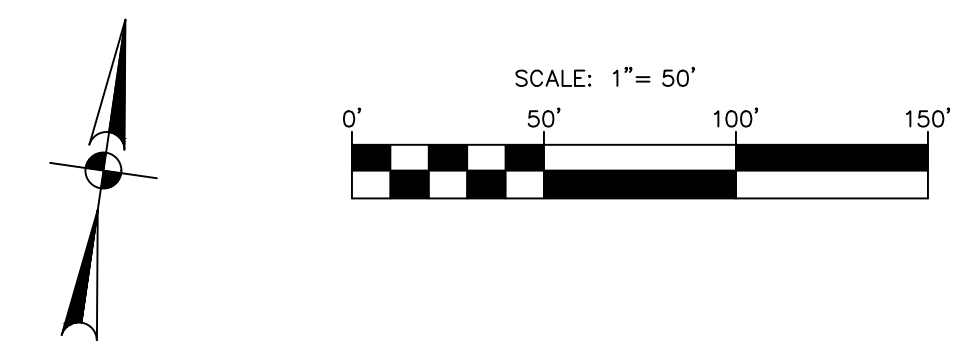
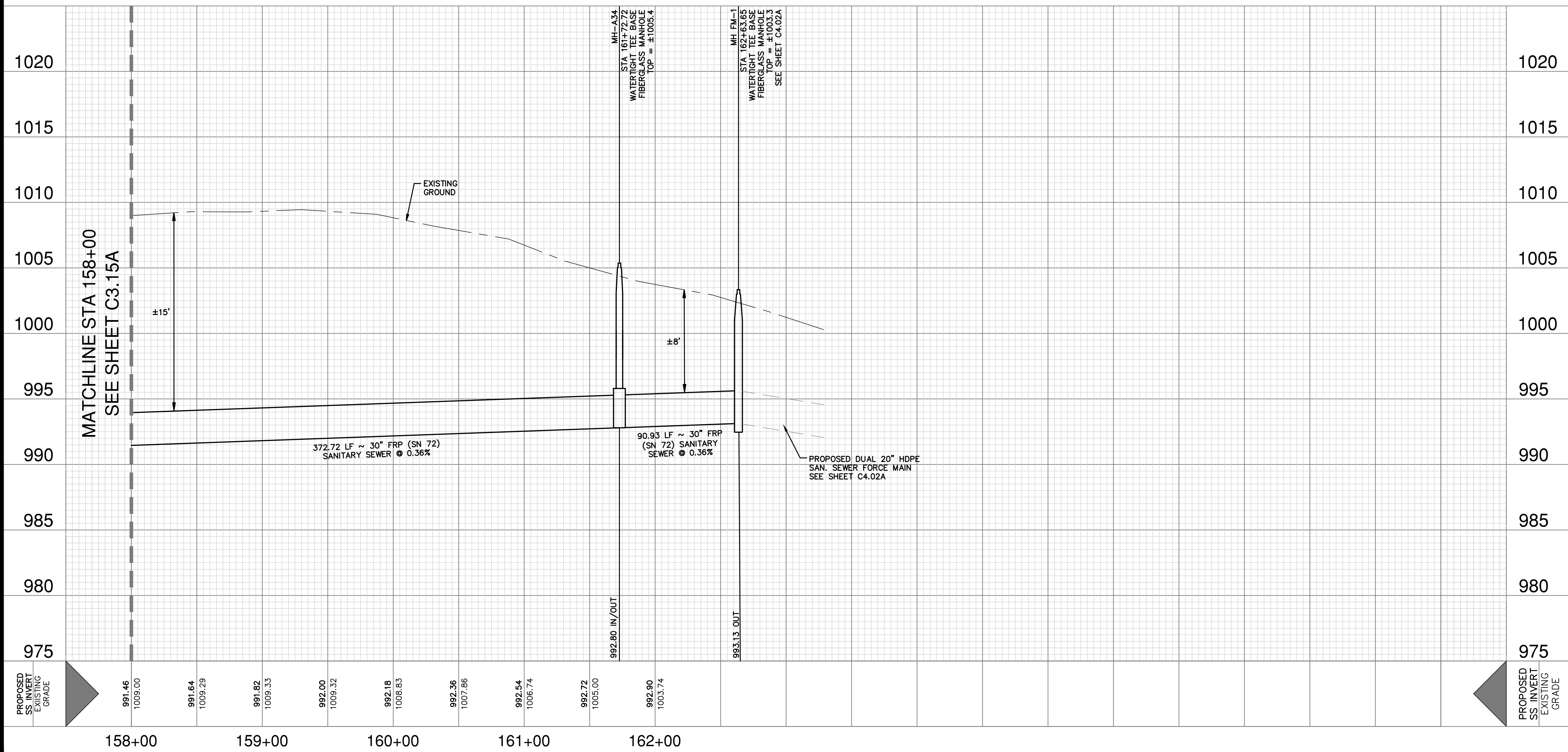
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(TRACT 1)  
POERNER ENTERPRISES, LTD.  
VOL. 8747, PG. 1368, O.P.R.

**NOTE**

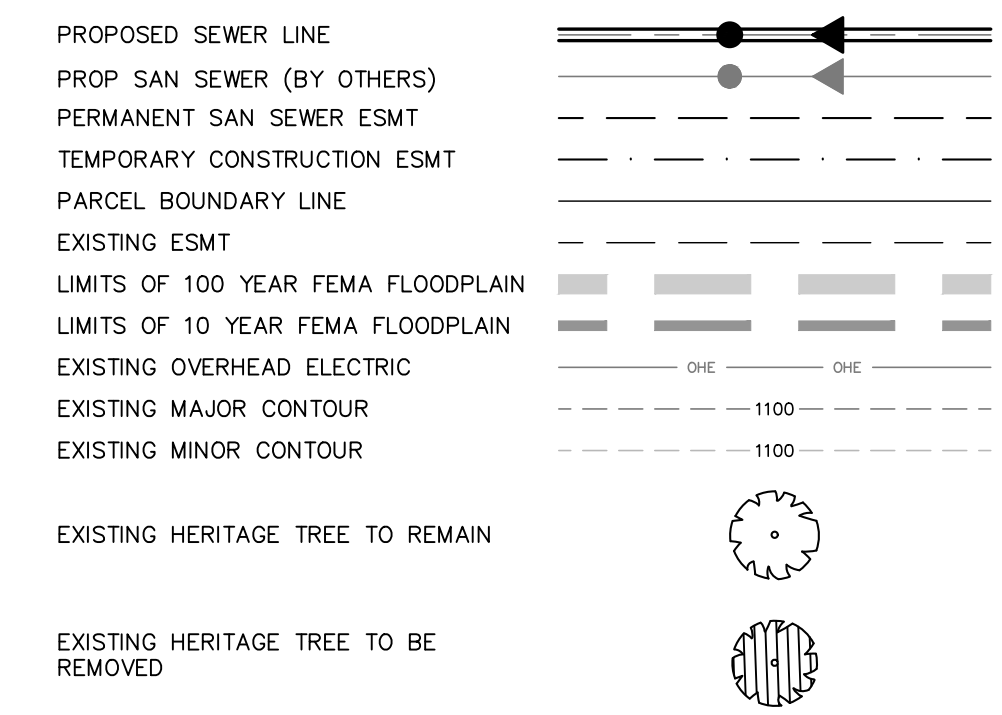
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**30" SANITARY SEWER - SEGMENT A**  
STA 158+00 TO STA 162+58

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**LEGEND**



QUANTITY TABLE			
ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
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857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 10'-15')	LF	184
857 (SC14.B&C)	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')	LF	280
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES) (SEGMENT A)	LF	464

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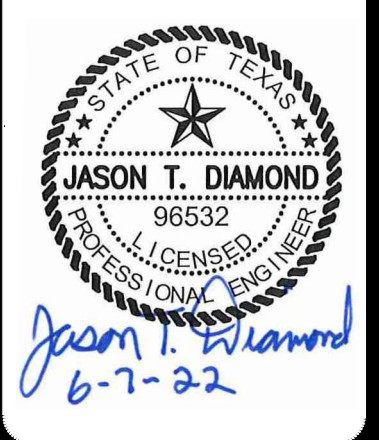
**TRENCH EXCAVATION SAFETY PROTECTION**

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

**SEWER: EAST WATERSHED - DOS RIOS W.R.C.**  
SAWS E-54 SANITARY SEWER PROJECT

Developer's Name: D.R. HORTON  
Address: 211 NORTH LOOP 1604, SUITE 130  
City: SAN ANTONIO State: TEXAS ZIP: 78232  
Phone# (210) 496-2668 FAX# N/A  
184646,184648,184650,186642,186644,186646  
SAWS Block Map# 186650,186652,186654,186656,186658 Total Acreage 22.74  
14 LF ~ 30" FRP 15,948 LF ~ 30" FRP  
Total Linear Footage of Pipe 2,120 LF ~ 20" HDPE 22 LF ~ 30" HDPE Plat No./N/A  
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 21-4404

NO.	REVISION	DATE
1	ADDENDUM 1	6/7/22



**PAPE-PAWSON ENGINEERS**  
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TYPE FIRM REGISTRATION #070 | TYPE FIRM REGISTRATION #10028890

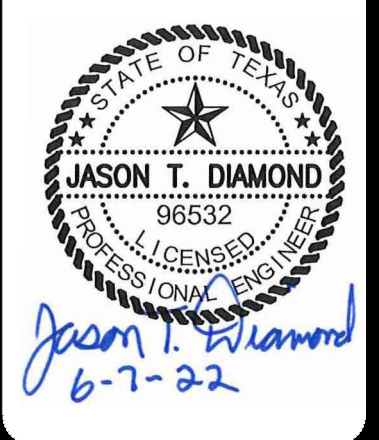
**SAWS E-54 SANITARY SEWER PROJECT**  
SEGMENT A & FORCE MAIN  
BEXAR COUNTY, TEXAS  
SEGMENT A PLAN AND PROFILE SHEET  
STA 158+00 TO STA 162+58

SAWS JOB NO. 21-4404  
JOB NO. 11500-51  
DATE: JUNE 2022  
DESIGNER: CD  
CHECKED: MP DRAWN: BS  
SHEET C3.16A

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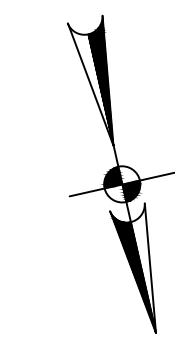
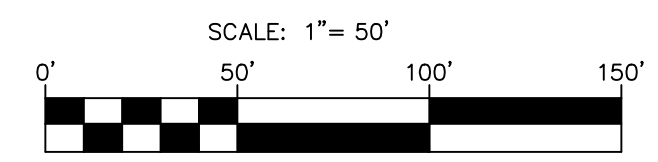
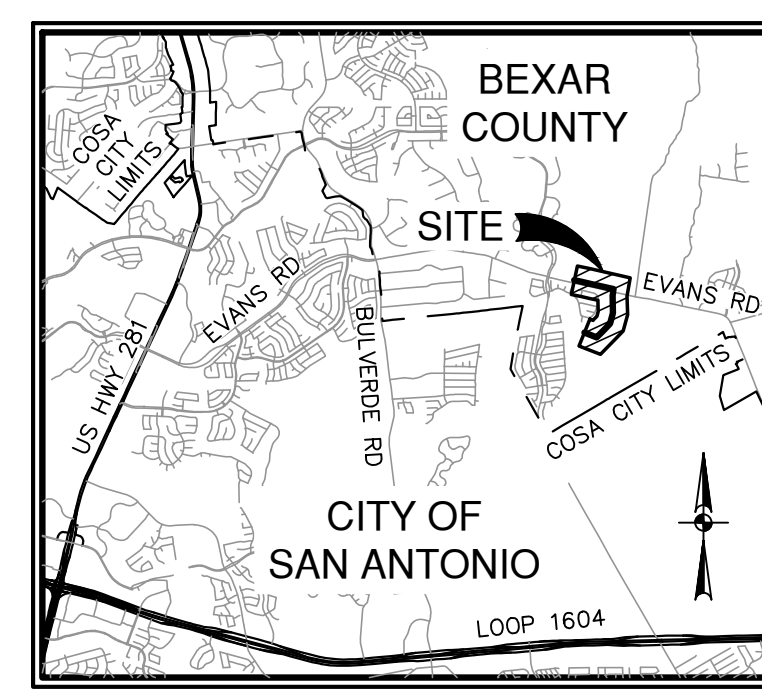
DATE	6/3/22
NO.	1
REVISION	ADDENDUM 1



**PAPE-PAWSON ENGINEERS**  
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
 TYPE FIRM REGISTRATION #270 | TBPUS FIRM REGISTRATION #1008890

**SAWS E-54 SANITARY SEWER PROJECT**  
 BEXAR COUNTY, TEXAS  
 SEGMENT B  
**STORMWATER POLLUTION PREVENTION PLAN**  
 STA 23+00 TO STA 47+72.91

SAWS JOB NO. 21-4404  
 JOB NO. 11500-51  
 DATE JUNE 2022  
 DESIGNER MP  
 CHECKED JD DRAWN BS  
 SHEET C5.01B



**LEGEND**

- PROJECT LIMITS
- - - EXISTING GRADE
- - - PROPOSED GRADE
- 100 YEAR FEMA FLOODPLAIN
- 5 YEAR FEMA FLOODPLAIN
- TREES TO REMAIN
- - - SILT FENCE
- - - EPHEMERAL STREAM BOUNDARY
- FLOW ARROW (EXISTING)
- FLOW ARROW (PROPOSED)
- ◆ ROCK BERM
- GRAVEL FILTER BAGS
- SEDIMENT CONTROL ROLLS
- ▨ STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)
- ▨ CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)
- ▨ CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)
- ▨ AREA OF DISTURBANCE

**NOTE:**

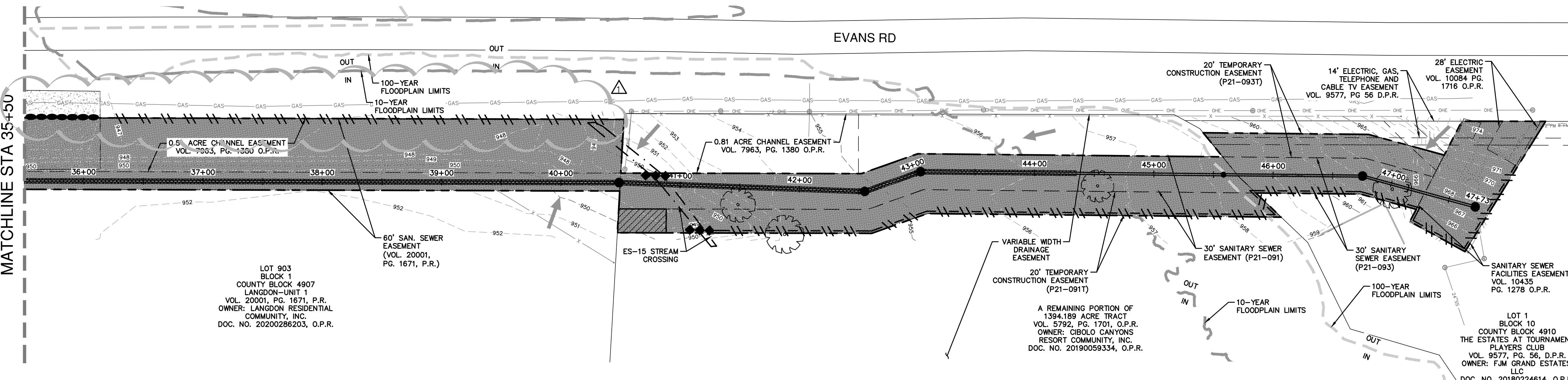
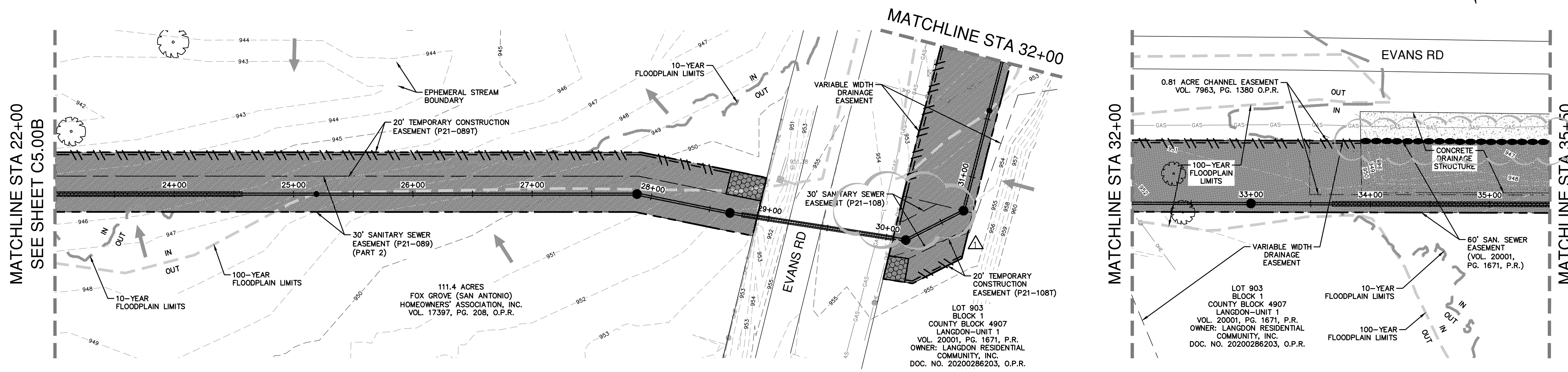
AREAS IN OR NEAR THE SITE AREA ARE CLASSIFIED AS R4SBA (RIVERINE, INTERMITTENT, STREAMBED, TEMPORARY FLOODED) PER THE US FISH AND WILDLIFE SERVICE NATIONAL WETLANDS INVENTORY MAP. FIELD INVESTIGATIONS DETERMINED THREE JURISDICTIONAL WATER CROSSINGS. PLEASE REFER TO TPDES FOR DETAILS.

**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.
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.
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. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
14. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TxDOT RIGHT-OF-WAY WITH TxDOT.
15. CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

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

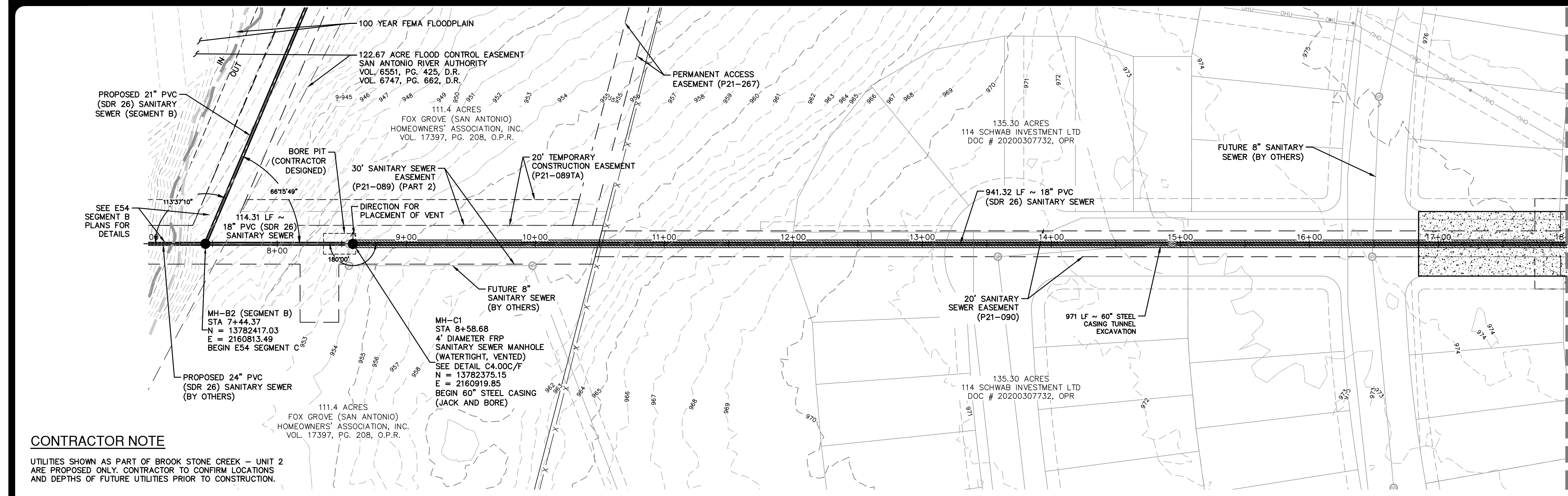
**EXHIBIT 2**



SWP3 MODIFICATIONS		
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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 HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.



MATCHLINE STA 18+00  
SEE SHEET C3.01C

**LEGEND**

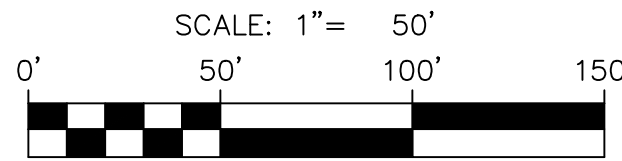
- PROP SEWER LINE
- EXISTING SEWER LINE
- EXISTING FORCE MAIN
- EXISTING WATER MAIN
- EXISTING CPS GAS LINE
- EXISTING OVERHEAD ELECTRIC
- PROPOSED EASEMENT
- PARCEL BOUNDARY LINE
- EXISTING ESMT
- LIMITS OF 100 YEAR FEMA FLOODPLAIN
- LIMITS OF 5 YEAR FEMA FLOODPLAIN
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING BARR WIRE FENCE
- EXISTING GUARD RAIL
- PROPOSED STEEL CASING
- PAVEMENT RESTORATION
- PROPOSED CONCRETE ENCASEMENT
- EXISTING HERITAGE TREE TO REMAIN
- EXISTING HERITAGE TREE TO BE REMOVED

**CONTRACTOR NOTE**

UTILITIES SHOWN AS PART OF BROOK STONE CREEK - UNIT 2 ARE PROPOSED ONLY. CONTRACTOR TO CONFIRM LOCATIONS AND DEPTHS OF FUTURE UTILITIES PRIOR TO CONSTRUCTION.

**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
203.1	TACK COAT	GAL	64
205.2	HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" PAVEMENT THICKNESS)	SY	642
205.4	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" PAVEMENT THICKNESS)	SY	642
500.1	CONCRETE CURB	LF	50
550	TRENCH EXCAVATION PROTECTION	LF	114
853	4" DIAMETER FRP SANITARY SEWER MANHOLE (WATERTIGHT, VENTED)	EA	1
848 (SC14.B&C)	18" PVC SDR 26 (OPEN CUT 25'-30')	LF	114
848.7 (SC14.B&C)	PIPE EXCAVATION/TRENCHING FOR SEGMENT C (MIN 60" WIDE) (ALL DEPTHS)	LF	114
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1055
02300-A	TUNNEL EXCAVATION AND PRIMARY REACH 1 (18" PVC SDR 26)	LF	941
02420-A	INSTALLATION OF CARRIER PIPE IN REACH 1 (18" PVC SDR 26)	LF	941
02360-A	REACH 1 ACCESS SHAFT	LS	1



**CAUTION OVERHEAD UTILITIES**

CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". A WORKING HEIGHT OF 30' FROM GROUND ELEVATION WILL BE OBSERVED WHEN WORKING UNDER THE HIGH VOLTAGE LINE. COORDINATE ALL WORK WITH THE LOCAL UTILITY PROVIDER.

**CAUTION UNDERGROUND UTILITIES**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRICAL, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

**COMPACTION NOTE**

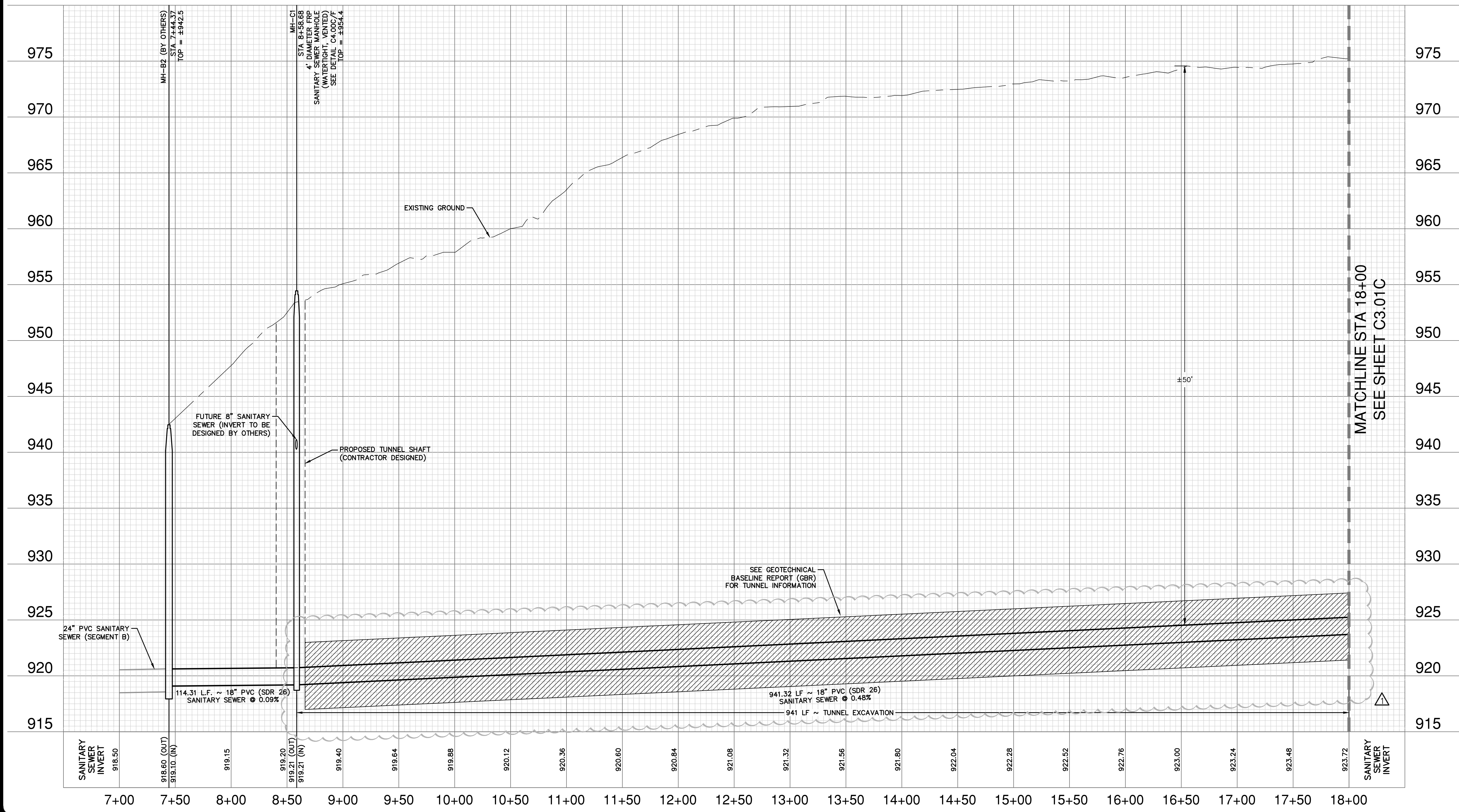
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT A LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE SAWS INSPECTOR/TEST ADMINISTRATOR PER EACH 12-INCH LOOSE LIFT PER 400 FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THE REQUIREMENT BEING MET AND VERIFIED BY PROVING ALL NECESSARY DOCUMENTED TEST RESULTS.

**TRENCH EXCAVATION SAFETY PROTECTION**

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

**SEWER: EAST WATERSHED - DOS RIOS W.R.C. E-54 SANITARY SEWER SEGMENT C**

Developer's Name: D.R. HORTON  
 Address: 211 NORTH LOOP 1604, SUITE 130  
 City: SAN ANTONIO State: TEXAS ZIP: 78232  
 Phone# (210) 496-2668 FAX# N/A  
 184646,184648,184650,186642,186644,186646  
 SAWS Block Map# 186650,186652,186654,186656,186658 Total Acreage 22.74  
 Total Linear Footage of Pipe: 4,879 LF ~ 18" PVC Total EDU'S N/A Plat No. N/A  
 Number of Lots N/A SAWS JOB NO. 21-4404

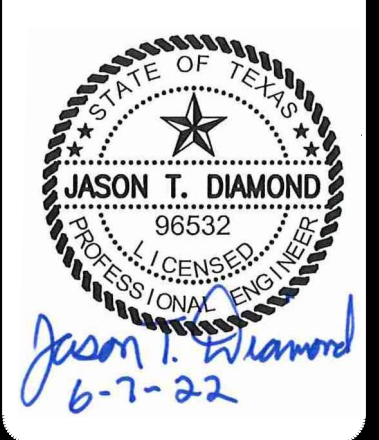


MATCHLINE STA 18+00  
SEE SHEET C3.01C

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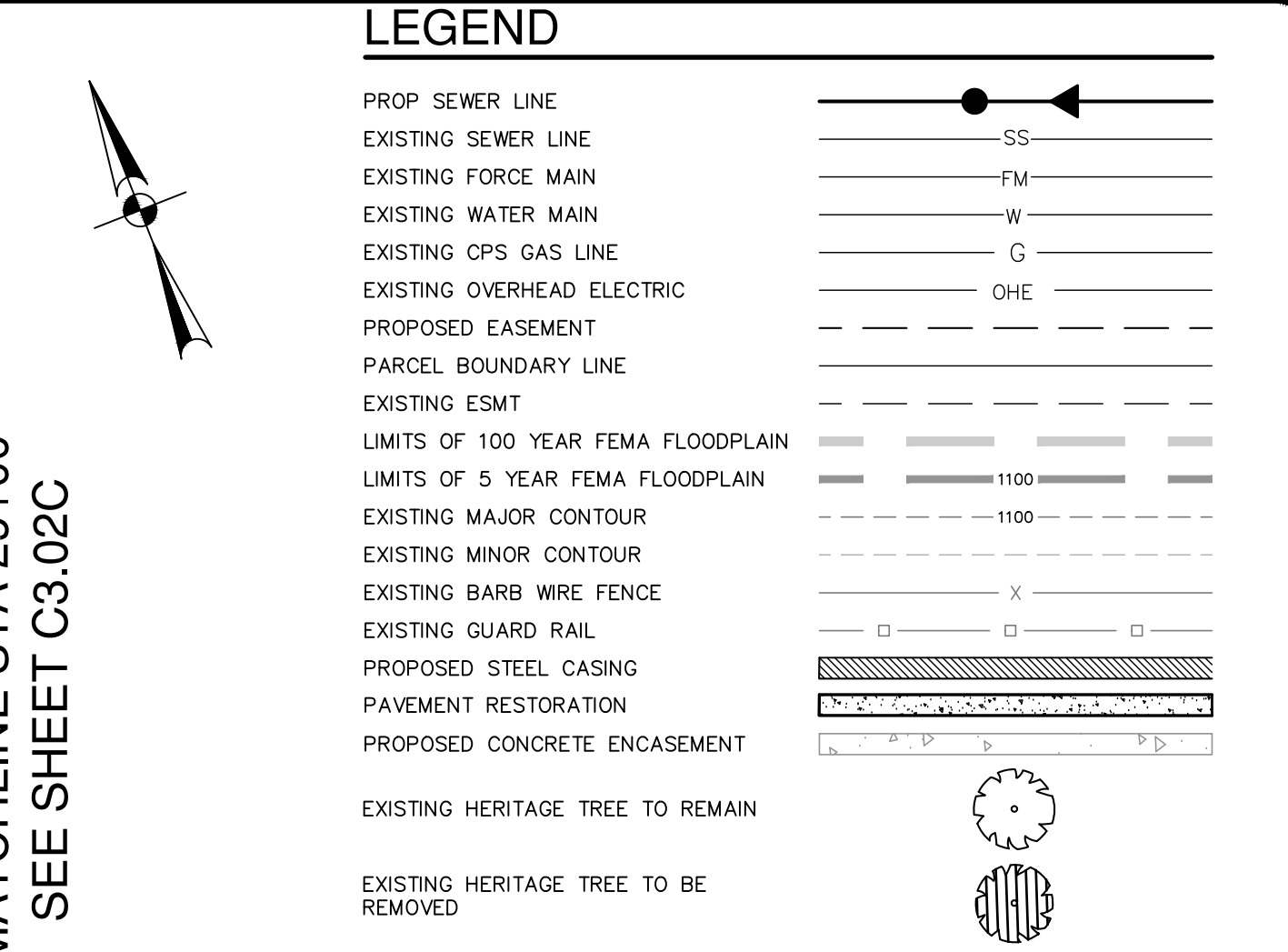
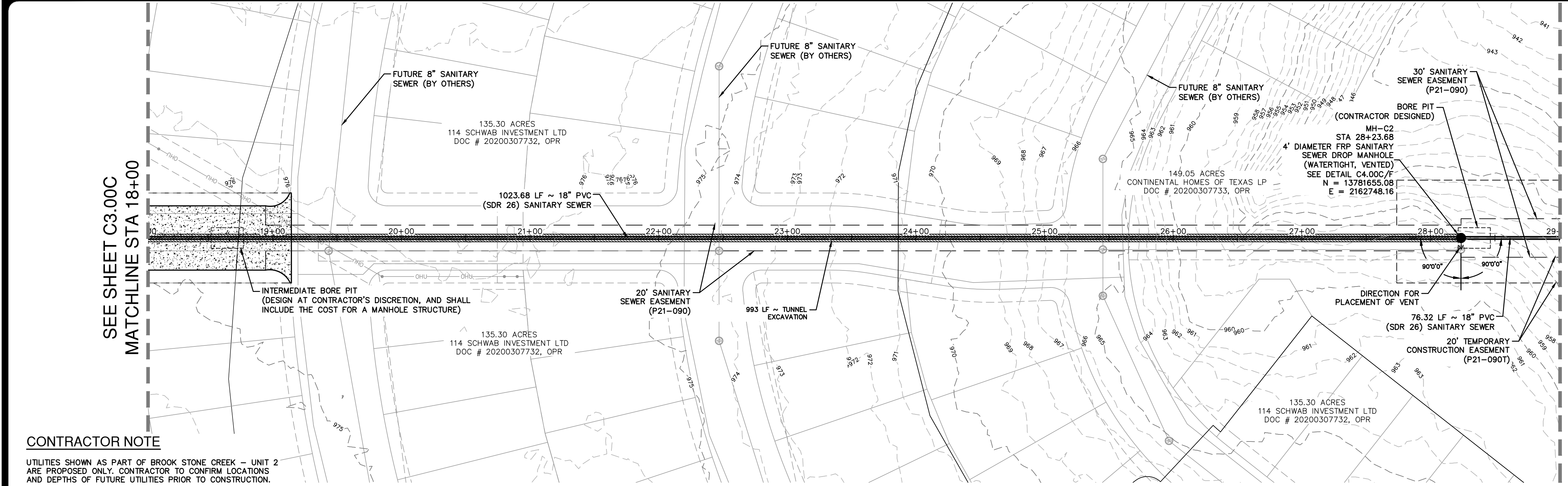
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	ADDITION 1



**PAPE-DAWSON ENGINEERS**  
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
 TYPE FIRM REGISTRATION #270 | TYPE FIRM REGISTRATION #10028890

**SAWS E-54 SANITARY SEWER PROJECT**  
 BEXAR COUNTY, TEXAS  
 SEGMENT C  
 PLAN AND PROFILE SHEET  
 STA: 7+00 TO STA: 18+00

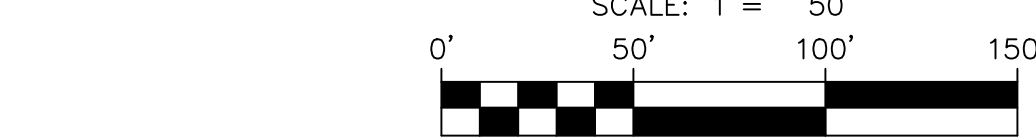
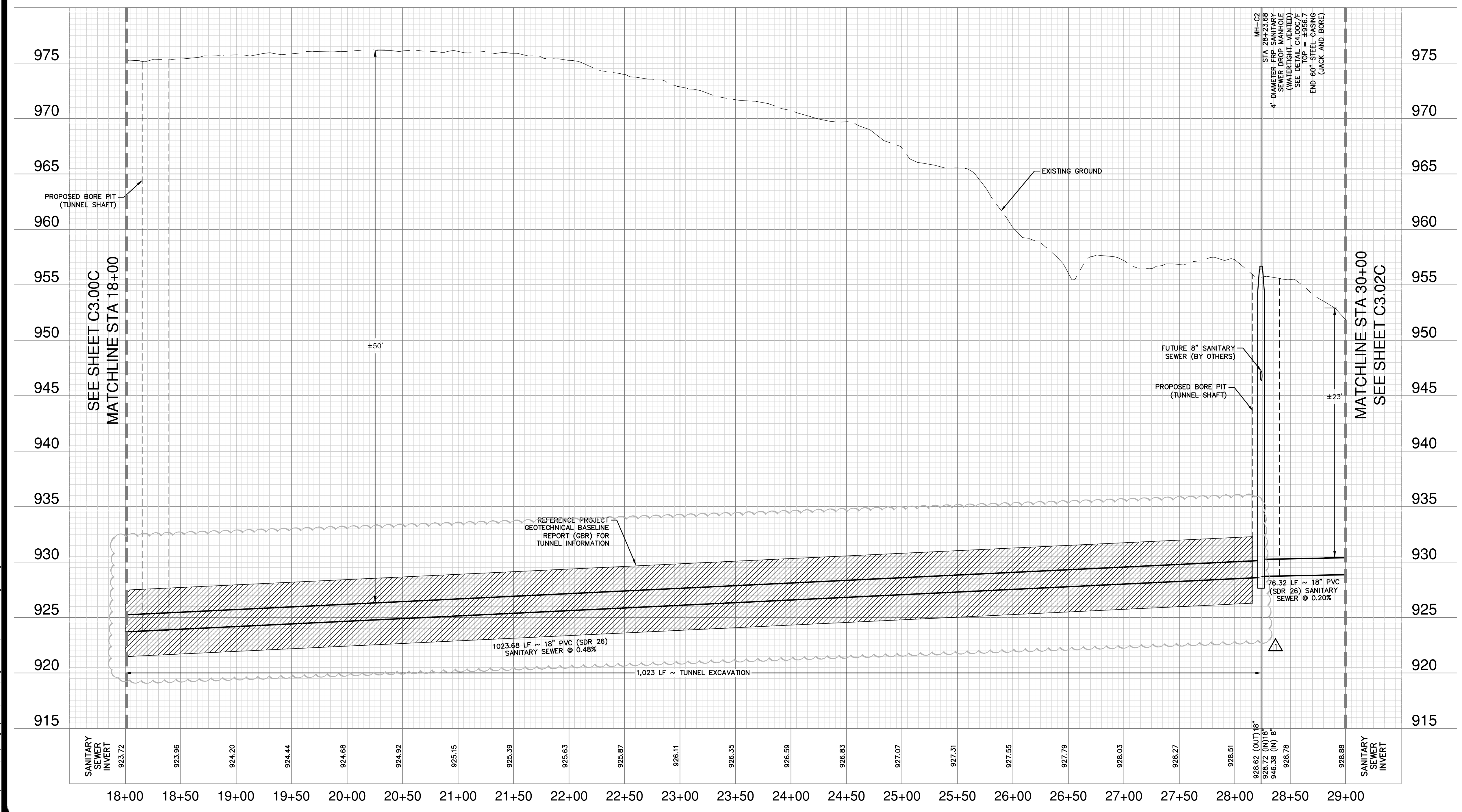
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JOB NO.	11500-51
DATE	JUNE 2022
DESIGNER	MP
CHECKED	JD DRAWN EP
SHEET	C3.00C



**CONTRACTOR NOTE**  
 UTILITIES SHOWN AS PART OF BROOK STONE CREEK - UNIT 2 ARE PROPOSED ONLY. CONTRACTOR TO CONFIRM LOCATIONS AND DEPTHS OF FUTURE UTILITIES PRIOR TO CONSTRUCTION.

**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
203.1	TACK COAT	GAL	63
205.2	HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" PAVEMENT THICKNESS)	SY	629
205.4	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" PAVEMENT THICKNESS)	SY	629
500.1	CONCRETE CURB	LF	224
550	TRENCH EXCAVATION PROTECTION	LF	77
853	4" DIAMETER FRP SANITARY SEWER DROP MANHOLE (WATERTIGHT, VENTED)	EA	1
848 (SC14.B&C)	18" PVC SDR 26 (OPEN CUT 25'-30')	LF	77
848.7 (SC14.B&C)	PIPE EXCAVATION/TRENCHING FOR SEGMENT C (MIN 60" WIDE) (ALL DEPTHS)	LF	77
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1100
02300-A	TUNNEL EXCAVATION AND PRIMARY REACH 1	LF	1023
02420-A	INSTALLATION OF CARRIER PIPE IN REACH 1 (18" PVC SDR 26)	LF	1023
02360-B	REACH 1 INTERMEDIATE SHAFT (WITH STRUCTURE)	LS	1
02360-C	REACH 1 RECOVERY SHAFT	LS	1



**CAUTION OVERHEAD UTILITIES**  
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**COMPACTION NOTE**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT A LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE SAWS INSPECTOR/TEST ADMINISTRATOR PER EACH 12-INCH LOOSE LIFT PER 400 FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THE REQUIREMENT BEING MET AND VERIFIED BY PROVING ALL NECESSARY DOCUMENTED TEST RESULTS.

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**SEWER: EAST WATERSHED - DOS RIOS W.R.C.**  
 E-54 SANITARY SEWER SEGMENT C

Developer's Name: D.R. HORTON  
 Address: 211 NORTH LOOP 1604, SUITE 130  
 City: SAN ANTONIO State: TEXAS ZIP: 78232  
 Phone# (210) 496-2668 FAX# N/A  
 184646,184648,184650,186642,186644,186646  
 SAWS Block Map# 186650,186652,186654,186656,186658 Total Acreage 22.74  
 Total Linear Footage of Pipe: 4,879 LF ~ 18" PVC Total EDU'S N/A, Plat No. N/A  
 Number of Lots: N/A SAWS JOB NO. 21-4404

DATE: 06/03/22  
 NO. REVISION: ADENDUM 1

**PAPE-DAWSON ENGINEERS**  
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
 TYPE FIRM REGISTRATION #470 | TYPE FIRM REGISTRATION #10028800

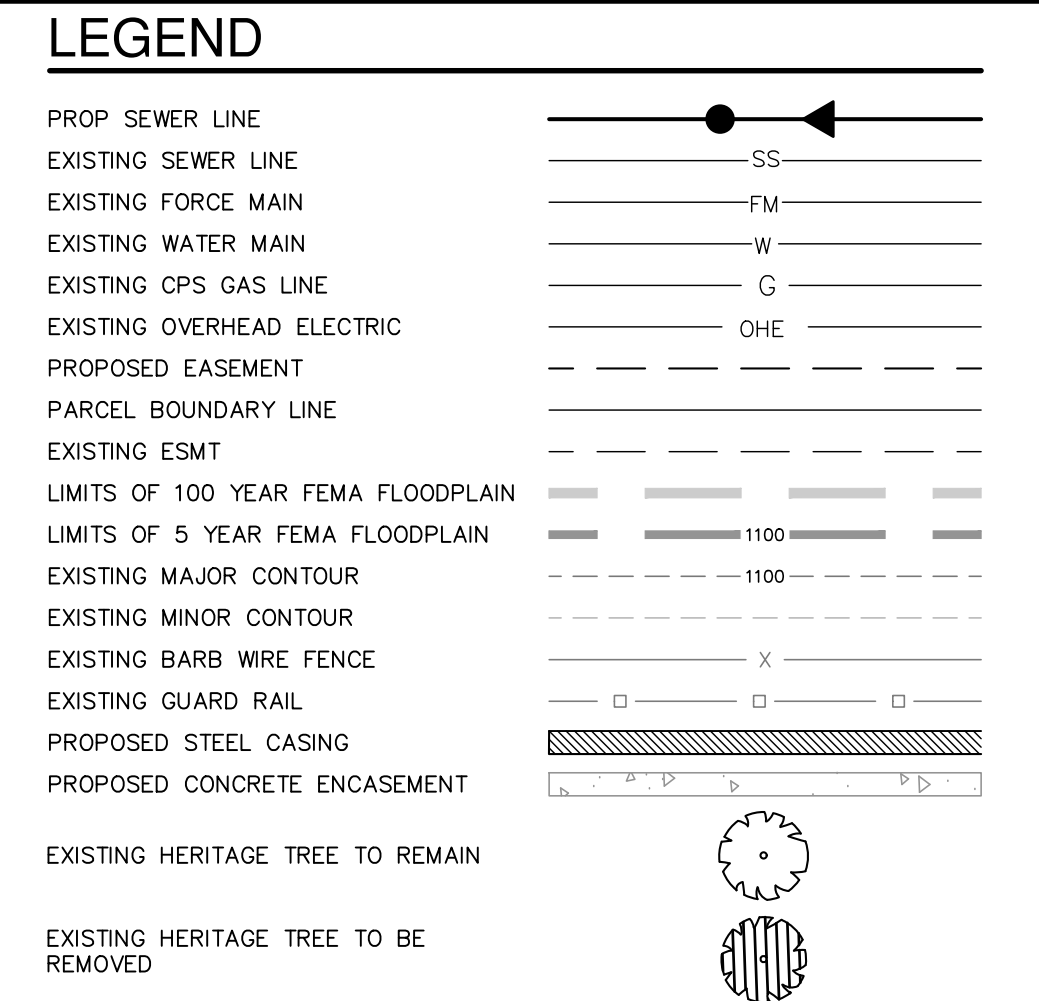
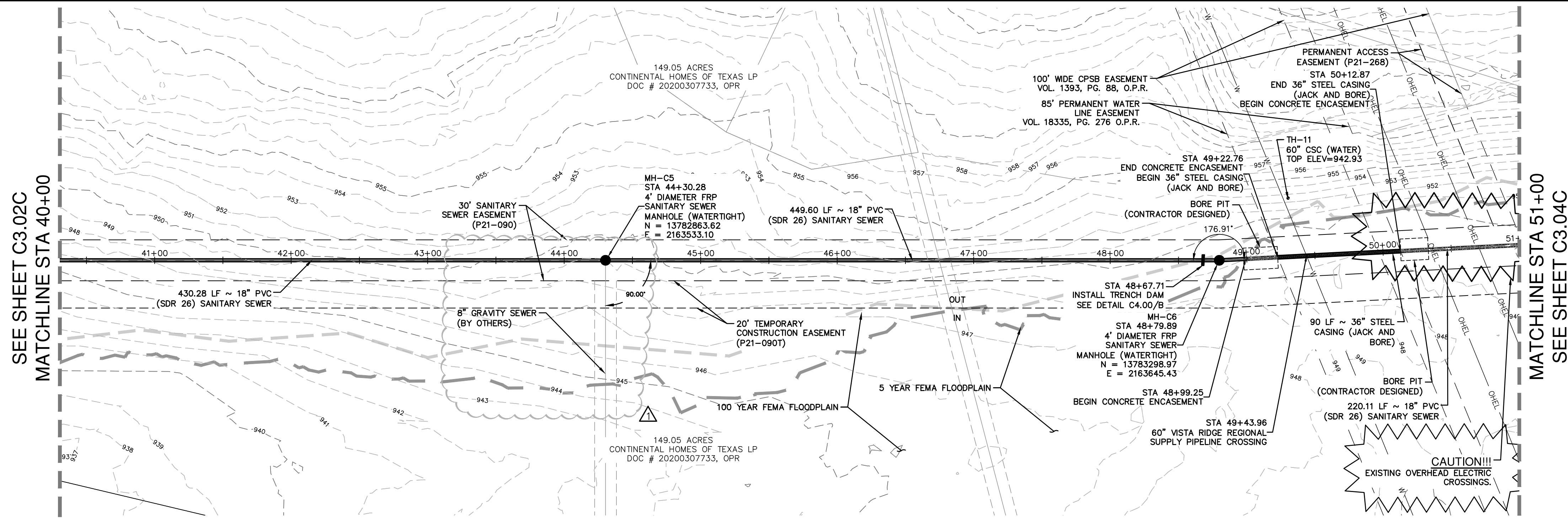
**SAWS E-54 SANITARY SEWER PROJECT**  
 BEXAR COUNTY, TEXAS  
 SEGMENT C  
 PLAN AND PROFILE SHEET  
 STA: 18+00 TO STA: 29+00

SAWS JOB NO. 21-4404  
 JOB NO. 11500-51  
 DATE: JUNE 2022  
 DESIGNER: MP  
 CHECKED: JD DRAWN: EP  
 SHEET: C3.01C

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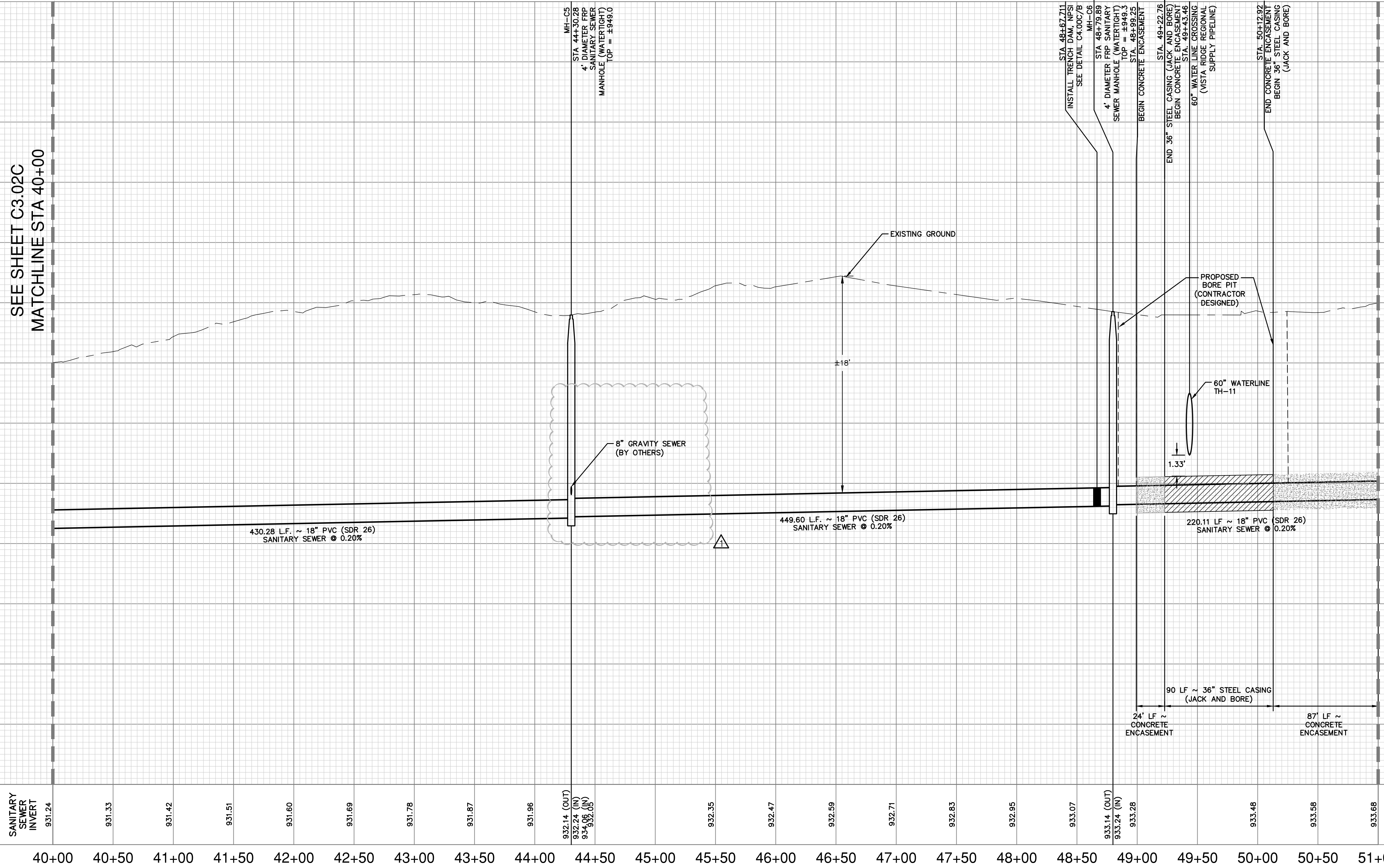
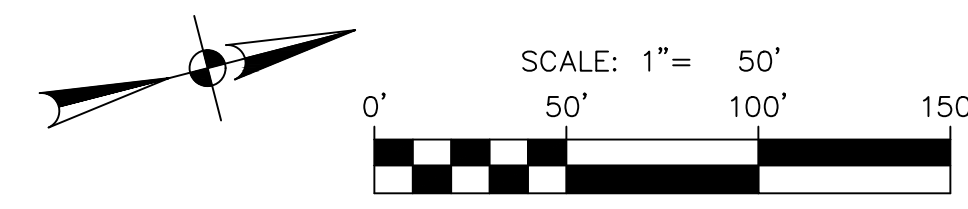
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**QUANTITY TABLE**

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
550	TRENCH EXCAVATION PROTECTION	LF	1010
853	4" DIAMETER FRP SANITARY SEWER MANHOLE (WATERTIGHT)	EA	2
848 (SC14.B&C)	18" PVC SDR 26 (OPEN CUT 10'-15')	LF	35
848 (SC14.B&C)	18" PVC SDR 26 (OPEN CUT 15'-20')	LF	975
848.7 (SC14.B&C)	PIPE EXCAVATION/TRENCHING FOR SEGMENT C (MIN 60" WIDE) (ALL DEPTHS)	LF	1,010
858 (SC14.B&C)	CLASS B - 2,000 PSI CONCRETE ENCASUREMENT	CY	44
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1100
02300-K	TUNNEL EXCAVATIONS AT VISTA RIDGE PIPELINE (JB-6, SEG C)	LF	90
02360-J	JACK AND BORE PITS FOR JB-6 (INCLUDES 2 EA)	LS	1
02420-K	INSTALLATION OF CARRIER PIPE IN JB-6 (18" PVC SDR 26)	LF	90



**CAUTION OVERHEAD UTILITIES**  
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". A WORKING HEIGHT OF 30' FROM GROUND ELEVATION WILL BE OBSERVED WHEN WORKING UNDER THE HIGH VOLTAGE LINE. COORDINATE ALL WORK WITH THE LOCAL UTILITY PROVIDER.

**CAUTION UNDERGROUND UTILITIES**  
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**SEWER: EAST WATERSHED - DOS RIOS W.R.C. - 54 SANITARY SEWER SEGMENT C**

Developer's Name: D.R. HORTON  
 Address: 211 NORTH LOOP 1604, SUITE 130  
 City: SAN ANTONIO State: TEXAS ZIP: 78232  
 Phone# (210) 498-2668 FAX# N/A  
 184646,184648,184650,186642,186644,186646  
 SAWS Block Map# 186650,186652,186654,186656,186658,186659,186660,186662,186664,186666,186668,186670,186672,186674,186676,186678,186680,186682,186684,186686,186688,186690,186692,186694,186696,186698,186700,186702,186704,186706,186708,186710,186712,186714,186716,186718,186720,186722,186724,186726,186728,186730,186732,186734,186736,186738,186740,186742,186744,186746,186748,186750,186752,186754,186756,186758,186760,186762,186764,186766,186768,186770,186772,186774,186776,186778,186780,186782,186784,186786,186788,186790,186792,186794,186796,186798,186800,186802,186804,186806,186808,186810,186812,186814,186816,186818,186820,186822,186824,186826,186828,186830,186832,186834,186836,186838,186840,186842,186844,186846,186848,186850,186852,186854,186856,186858,186860,186862,186864,186866,186868,186870,186872,186874,186876,186878,186880,186882,186884,186886,186888,186890,186892,186894,186896,186898,186900,186902,186904,186906,186908,186910,186912,186914,186916,186918,186920,186922,186924,186926,186928,186930,186932,186934,186936,186938,186940,186942,186944,186946,186948,186950,186952,186954,186956,186958,186960,186962,186964,186966,186968,186970,186972,186974,186976,186978,186980,186982,186984,186986,186988,186990,186992,186994,186996,186998,187000  
 Total Linear Footage of Pipe: 4,879 LF ~ 18" PVC Total EDU'S N/A, Plat No. N/A  
 Number of Lots: N/A SAWS JOB NO. 21-4404

DATE: 06/03/22  
 REVISION: ADDENDUM 1  
 NO. 1

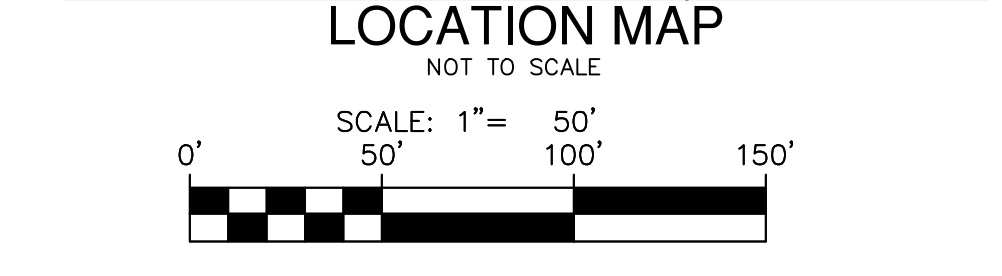
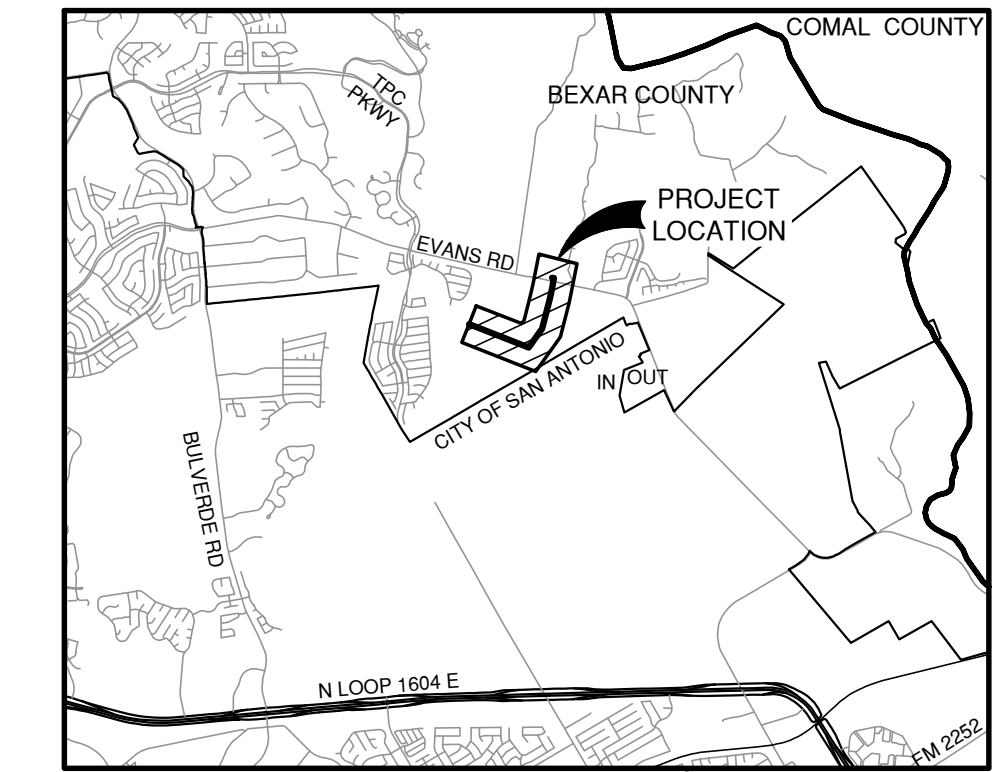
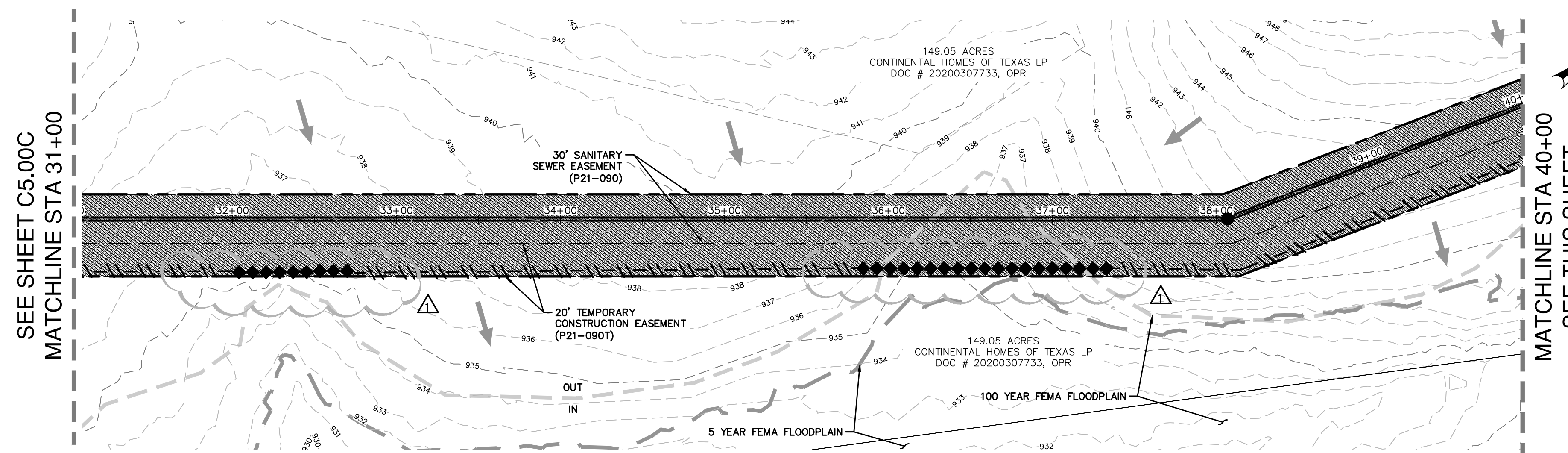
Jason T. Diamond  
 6-7-22

**PAPE-PAWSON ENGINEERS**  
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
 TYPE FIRM REGISTRATION #270 | TYPE FIRM REGISTRATION #10028890

**SAWS E-54 SANITARY SEWER PROJECT**  
 BEXAR COUNTY, TEXAS  
 SEGMENT C  
 PLAN AND PROFILE SHEET  
 STA: 40+00 TO STA: 51+00

SAWS JOB NO. 21-4404  
 JOB NO. 11500-51  
 DATE: JUNE 2022  
 DESIGNER: MP  
 CHECKED: JD DRAWN: EP  
 SHEET: C3.03C

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**LEGEND**

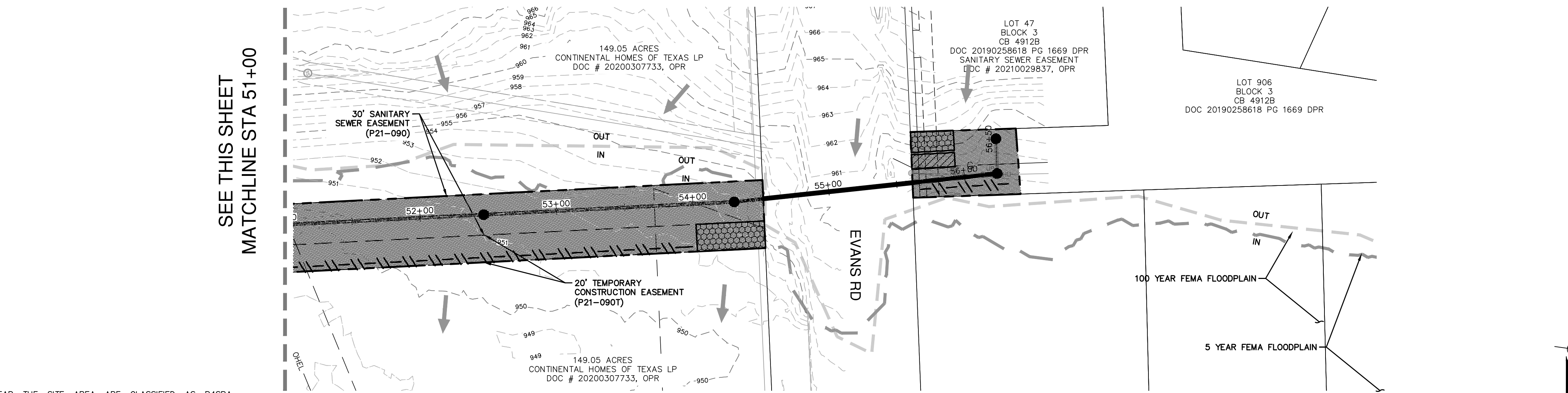
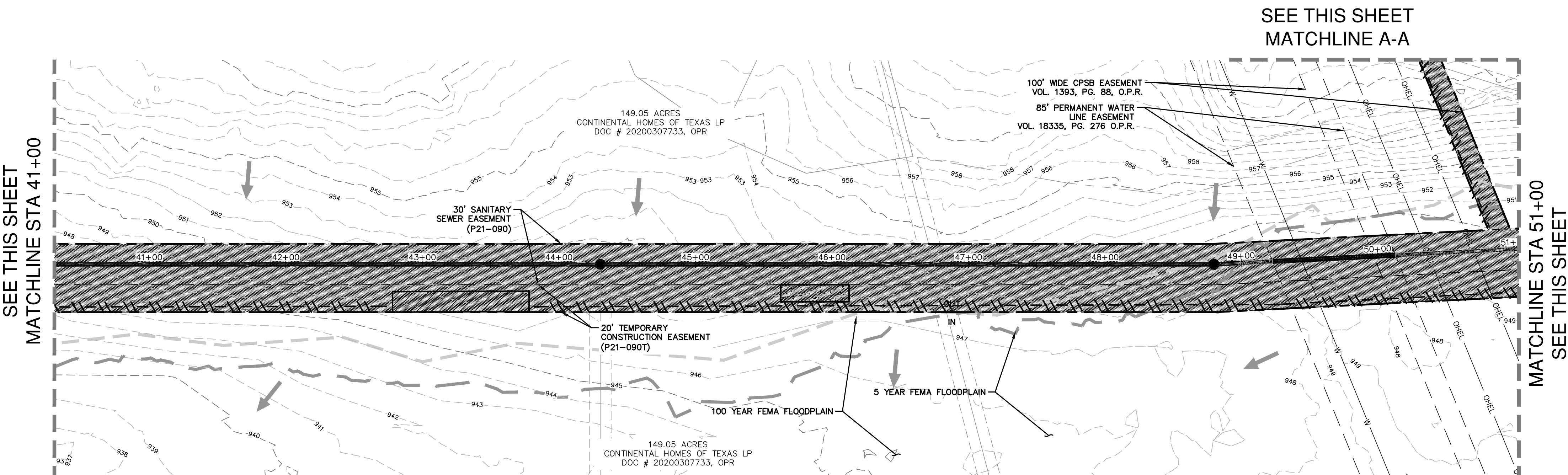
--- PROJECT LIMITS
- - - 976 EXISTING GRADE
- - - 970 PROPOSED GRADE
--- 100 YEAR FEMA FLOODPLAIN
--- 5 YEAR FEMA FLOODPLAIN
○ TREES TO REMAIN
--- SILT FENCE
--- EPHEMERAL STREAM BOUNDARY
→ FLOW ARROW (EXISTING)
→ FLOW ARROW (PROPOSED)
◆ ROCK BERM
● GRAVEL FILTER BAGS
○ SEDIMENT CONTROL ROLLS
▨ STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)
▨ CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)
▨ CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)
▨ AREA OF DISTURBANCE

**GENERAL NOTES**

- DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
- CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
- 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.
- RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
- ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
- FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
- 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.
- 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.
- BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.
- 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.
- 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.
- 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.
- 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. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TxDOT RIGHT-OF-WAY WITH TxDOT.
- CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

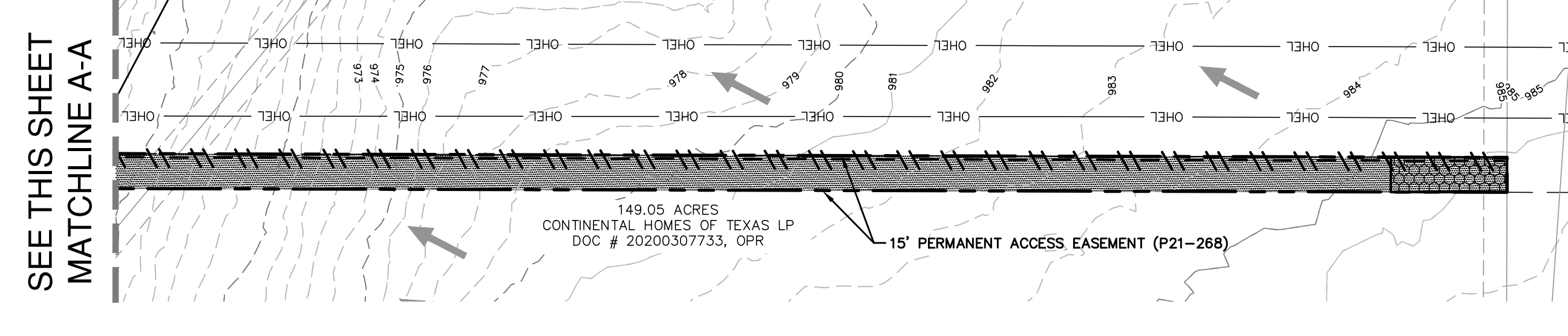
THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

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



**SWP3 MODIFICATIONS**

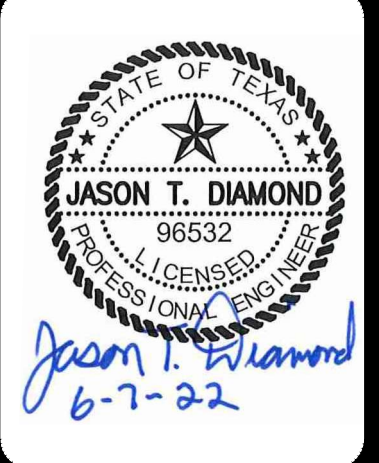
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NO.	REVISION	DATE



**PAPE-DAWSON ENGINEERS**  
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
 TPPE FIRM REGISTRATION #470 | TPPE FIRM REGISTRATION #1008880

**SAWS E-54 SANITARY SEWER PROJECT**  
 BEXAR COUNTY, TEXAS  
 SEGMENT C  
 STORM WATER POLLUTION PREVENTION PLAN

SAWS JOB NO.	21-4404
JOB NO.	11500-51
DATE	JUNE 2022
DESIGNER	MP
CHECKED	JD DRAWN EP
SHEET	C5.01C

**EXHIBIT 2**