MOY TARIN RAMIREZ ENGINEERS, LLC. 12770 CIMARRON PATH, SUITE 100

OWNER/DEVELOPER

4058 N COLLEGE ST SUITE 300, BOX 9

SUBMITTED BY:

SAN ANTONIO, TEXAS 78249

TEL: (210) 698-5051 FAX: (210) 698-5085

SAN ANTONIO LD, LLC

FAYETTEVILLE, AR 72703

(479) 455-9090

# LONESOME DOVE HILLS, UNIT 3 SANITARY SEWER IMPROVEMENTS

SAWS CONSTRUCTION NOTES

- 1. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable: A. Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1
- B. Current TXDOT "Standard Specifications for Construction of Highways, Streets and Drainage". C. Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction".
- D. Current City of San Antonio "Standard Specifications for Public Works Construction". E. Current City of San Antonio "Utility Excavation Criteria Manual" (UECM)
- 2. The contractor shall not proceed with any pipe installation work until they obtain a copy of the approved Counter Permit or General Construction Permit (GCP) from the consultant and has been notified by SAWS Construction Inspection Division to proceed with the work and has arranged a meeting with the inspector and consultant for the work requirements. Work completed by the contractor without an approved Counter Permit and/or a GCP will be subject to removal and replacement at the expense of the contractors and/or the developer.
- 3. The Contractor shall obtain the SAWS Standard Details from the SAWS website,
- http://www.saws.org/business\_center/specs. Unless otherwise noted within the design plans.
- 4. The Contractor is to make arrangements with the SAWS Construction Inspection Division at (210) 233-2973, on notification procedures that will be used to notify affected home residents and/or property owners 48
- 5. Location and depth of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor at least 1 week prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction
- 6. The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. Please allow up to 7 business days for locates requesting pipe location markers on SAWS facilities. The following contact information are supplied for verification purposes:
- SAWS Utility Locates: http://www.saws.org/Service/Locates
- COSA Drainage (210) 207-0724 or (210) 207-6026
- COSA Traffic Signal Operations (210) 206-8480 COSA Traffic Signal Damages (210) 207-3951
- Texas State Wide One Call Locator 1-800-545-6005 or 811
- 7. The Contractor shall be responsible for restoring existing fences, curbs, streets, driveways, sidewalks, landscaping and structures to its original or better condition if damages are made as a result of the project's construction.
- 8. All work in Texas Department of Transportation (TxDOT) and/or Bexar County right-of-way shall be done in accordance with respective construction specifications and permit requirements
- 9. The Contractor shall comply with City of San Antonio or other governing municipality's tree ordinances when excavating
- 10. The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood 11. Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be sent to constworkreg@saws.org
- Weekend Work: Contractors are required to notify the SAWS Inspection Construction Department 48 hours in advance to request weekend work. Request should be sent to constworkreq@saws.org. Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper
- 12. Compaction note (Item 804): The contractor shall be responsible for meeting the compaction requirements on all trench backfill and for paying for the tests performed by a third party. Compaction tests will be done at one location point randomly selected, or as indicated by the SAWS Inspector and/or the test administrator, per each 12-inch loose lift per 400 linear feet at a minimum. This project will not be accepted and finalized by SAWS without this requirement being met and verified by providing all necessary documented test results.
- 13. A copy of all testing reports shall be forwarded to SAWS Construction Inspection Division.

- 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
- 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.
- Attempt to eliminate the source of the SSO.
- Contain sewage from the SSO to the extent of preventing a possible contamination of waterways. Clean up spill site (return contained sewage to the collection system if possible) and properly dispose of
- contaminated soil/materials. Clean the affected sewer mains and remove any debris.
- 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
- 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
- 3. 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. 4. 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 pressure rated PVC at the proposed water crossing.
- 5. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: It shall be the responsibility of the Contractor to make allowances and adjustments for top of manholes to match the finished grade of the project's improvements. (NSPI) 6. Spills, Overflows, or Discharges of Wastewater: All spills, overflows, or discharges of wastewater, recycled water, petroleum products, or chemicals must be reported immediately to the SAWS Inspector assigned to the Counter Permit or General Construction Permit (GCP). This requirement applies to every spill, overflow, or discharge regardless of size.

ADDITIONAL SEWER NOTES

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

- 1. SANITARY SEWER LATERALS TO BE LOCATED AS SHOWN ON THE SANITARY SEWER PLANS.
- 2. PAY CUTS FOR SANITARY SEWERS LOCATED IN STREETS ARE ESTIMATED TO THE FINISHED SUBGRADE ELEVATION. PAY CUTS ARE TO EXISTING GROUND IN UNPAVED AREAS.
- 3. EXTEND ALL SANITARY SEWER LATERALS TO THE PROPERTY LINE OR TO THE EASEMENT LINE AS INDICATED. ALL LATERALS ARE 35' LONG UNLESS OTHERWISE NOTED.
- 4. SANITARY SEWER LINES AND LATERALS WILL BE PVC SDR 26 ASTM D 3034 UNLESS OTHERWISE NOTED ON PLAN AND PROFILE SHEETS.
- 5. SDR FITTINGS WILL MATCH SDR SEWER MAIN, NO SEPARATE PAY ITEM.
- 6. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPGRADIENT SIDE OF THE SEWER TRENCH THUS ALLOWING THE TRENCH TO INTERCEPT ANY SILT CONTAMINATED RUNOFF.
- 7. QUANTITIES ARE BASED ON CURRENT SAWS SPECIFICATIONS.
- 8. ALL MANHOLES TO HAVE WATERTIGHT RING AND COVERS.
- 9. ALL MANHOLES TO BE CONCRETE RING ENCASED.
- 10. MANHOLES TO BE VENTED AS SHOWN ON THE SANITARY SEWER PLANS.
- 11. AN "\*" DENOTES AN EXISTING TEE.
- 12. ALL SANITARY SEWER LATERALS SHALL HAVE A MIN. 2.0% SLOPE TO THE PROPERTY LINE.
- 13. MINIMUM COVER FROM TOP OF SANITARY SEWER LATERALS TO TOP OF

A. IF LATERALS DO NOT CROSS WATER MAINS, 5' COVER

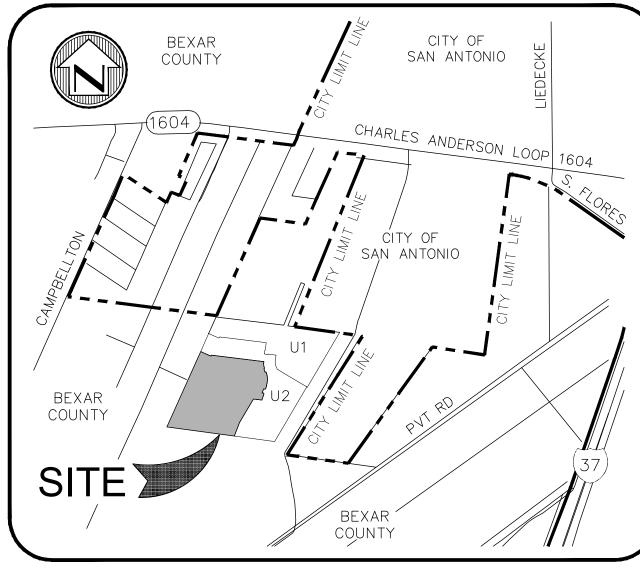
- B. IF LATERALS CROSS WATER MAIN. WATER MAIN COVER
- 5.7' 12" 6.0'

#### 14. ALL MANHOLE OPENINGS SHALL BE 30"

#### SAN ANTONIO WATER SYSTEM CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS

- I. WHERE A SEWER MAIN CROSSES OVER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE (9) FEET, ALL PORTIONS OF THE SEWER MAIN WITHIN NINE FEET (9) OF THE WATER LINE SHALL BE CONSTRUCTED USING 150 PSI PRESSURE RATED DUCTILE IRON, CAST IRON OR PVC PIPE AND JOINED WITH EQUALLY PRESSURE RATED PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A CAST IRON OR DUCTILE IRON MATERIAL. A SECTION OF 150 PSI PRESSURE RATED PIPE AT LEAST EIGHTEEN (18) FEET IN LENGTH MAY BE CENTERED ON THE WATER MAIN IN LIEU OF PIPE CONNECTION REQUIREMENTS. (NO SEPARATE PAY ITEM)
- II. WHERE A SEMI-RIGID OR RIGID SEWER MAIN CROSSES UNDER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE FEET BUT GREATER THAN TWO FEET, THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR ALL SECTIONS OF THE SEWER WITHIN NINE FEET OF THE WATER MAIN.
- III. WHERE A SEWER MAIN CROSSES UNDER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN TWO FEET, THE SEWER MAIN SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI WITHIN NINE FEET OF THE WATER MAIN, SHALL HAVE A SEGMENT OF SEWER PIPE CENTERED ON THE WATER MAIN, SHALL BE PLACED NO CLOSER THAN SIX INCHES BETWEEN OUTER DIAMETERS, AND SHALL BE JOINED WITH PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A CAST IRON OR DUCTILE IRON MATERIAL. A SECTION OF 150 PSI PRESSURE RATED PIPE OF A LENGTH GREATER THAN EIGHTEEN (18) FEET MAY BE CENTERED ON THE WATER MAIN IN LIEU OF PIPE CONNECTION REQUIREMENTS. (NO SEPARATE PAY ITEM)
- IV. WHERE A SEWER MAIN PARALLELS A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE FEET. THE SEWER MAIN SHALL BE BELOW THE WATER MAIN, SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI FOR BOTH PIPE AND JOINTS FOR A DISTANCE OF NINE FEET BEYOND THE POINT OF CONFLICT, SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE BETWEEN OUTER DIAMETERS OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY, AND SHALL BE JOINED WITH PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A CAST IRON OR DUCTILE IRON MATERIAL.

SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED ANY CLOSER THAN NINE FEET TO WATER MAINS.



# **VICINITY MAP**

### **SUBMITTAL DATE:** OCTOBER 2022

# **REVISION DATE:**

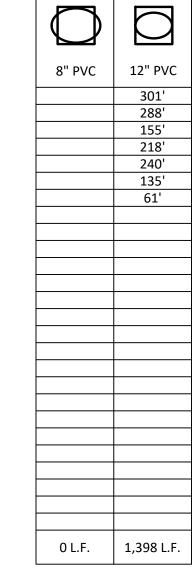
# **LEGAL DESCRIPTION:**

BEING A TOTAL OF 20.767 ACRES OF LAND ESTABLISHING LOTS 67-68, BLOCK 12, C.B. 4167, LOTS 18-37, BLOCK 14, C.B. 4167, LOTS 18-38 a 902, BLOCK 18, C.B. 4167, LOTS 1-44, BLOCK 26, C.B. 4167 AND LOTS 1-26 & 901-903, BLOCK 27 BEING A PORTION OF LOT 6, AND A PORTION OF LOT 7, BLOCK 1, AS SHOWN ON PLAT OF IVY SUBDIVISION RECORDED IN VOLUME 9524, PAGES 14-22 OF THE OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS.

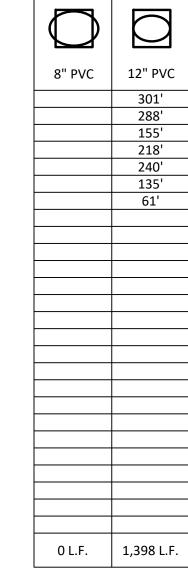
TABLE OF CONTENTS					
SHEET No.	TITLE				
C2.0	SEWER COVER				
C2.1	SEWER OVERALL				
C2.2	SEWER OVERALL				
C2.3	SEWER OVERALL				
C2.4	SEWER LINE A				
C2.5	SEWER LINE A				
C2.6	SEWER LINE F				
C2.7	SEWER LINE K				
C2.8	SANITARY SEWER DETAILS				

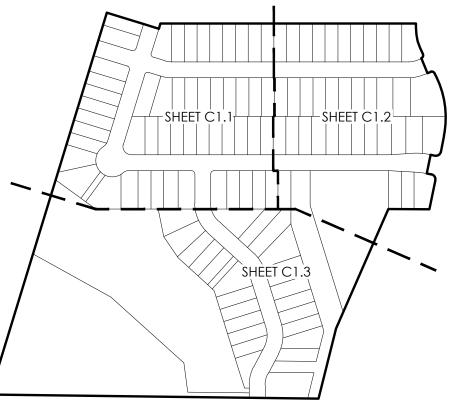
AS-BUILT / PLA	N OF RECORD
SAWS JOB NO.:	23-1584
COMPLETION DATE:	1/15/2025
CONTRACTOR:	7-SITE & UTILITY
INSPECTOR:	JOSE PADILLA

MATERIAL MANUFACTURERS					
PIPES:	WESTLAKES				
MANHOLES:	CAPITAL PRECAST				
RING & COVER:	E.J. IRON WORKS				



AS-BUILT / PLAN OF RECORD					
SAWS JOB NO.:	23-1584				
COMPLETION DATE:	1/15/2025				
CONTRACTOR:	7-SITE & UTILITY				
INSPECTOR:	JOSE PADILLA				





## AS BUILT / PLAN OF RECORD FEBRUARY 3, 2025

NOTE: I HEREBY CERTIFY THAT THESE "PLAN OF RECORD" IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND PREPARED UNDER MY SUPERVISION.



NOTE: INFORMATION FOR THIS "PLAN OF RECORD" WAS PROVIDED TO MTR ENGINEERS BY THE CONTRACTOR.

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

#### TRENCH EXCAVATION SAFETY PROTECTION Contractor and/or Contractor's independently retained employee or structural

design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) 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: LOWER COLLECTION & TREATMENT AREA PALO BLANCO CREEK - MEDINA RIVER WATERSHED - DIOS RIOS W.R.C.

Developer's Name	SAN ANTONIO	LD, LLC			
Developer's Address	4058 N C	OLLEGE ST SUITE 300	, BOX 9		
City FAYETTEVILLE		State AR	Zip_	72703	
Phone #(479) 4	55-9090	Fax #			
SAWS Block Map # _	182-502	Total EDU	J's	Total Acreage	20.767
Total Linear Footage	of Pipe <u>12" ~</u>	1,398 L.F.		Plat No. 22-	11800313
Number of Lots	114	SAWS	Job No.	23-1584	

BEXAR COUNTY

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED.

THE CONTRACTOR SHALL CONTACT EACH INDIVIDUAL UTILITY, FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR

SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION

NOTE TO CONTRACTOR:

• Engineers Surveyors

Moy Tarin Ramirez Engineers, LLC FIRM TBPELS ENG F-5297 SVY F-10131500

12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051 SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085



TEXAS C2.0

PROPOSED FIRE HYDRANT EXISTING FIRE HYDRANT PROPOSED GATE VALVE EXISTING GATE VALVE

EXISTING SANITARY SEWER MAIN & MANHOLE PROPOSED SERVICE LATERAL WITH ONE-WAY CLEAN-OUT VERTICAL STACK

PROPOSED SANITARY SEWER MAIN & MANHOLE

LEGEND

ELECTRIC, GAS, TELEPHONE & CABLE TV EASEMENT TEMPORARY BENCHMARK

PROPOSED MINIMUM FINISH FLOOR ELEVATION SANITARY SEWER/WATER CROSSING LOCATION

OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS

E.G.T.CA.E.

MIN. F.F. = <u>795.5</u>

O.P.R.B.C.T.

\* SEPARATION DISTANCE TO COMPLY WITH TCEQ REGULATION 30 TAC 290.44 (E) APPENDIX E & 30 TAC 217.53 (D) APPENDIX D -- SEPARATION DISTANCE

THE REQUIREMENTS OF ASTI CENTERED AT WATER MAIN.

20 LF. OF 160 P.S.I. PRESSURE RATED PVC PIPE CENTERED ACROSS WATER CROSSING (SDR 26).

— SEWER PIPE AT WATER LINE CROSSINGS SHALL MEET

O.P.R.M.C.T.

PAUL LANDA, JR. 100182

TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL

PROPOSED SANITARY SEWER LINE

### CAUTION:

**EXISTING UTILITIES:** 

LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY CONTRACTOR PRIOR TO THE CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SAME DURING CONSTRUCTION.

LOCATE AND TAG THEIR UNDERGROUND FACILITIES PRIOR TO EXCAVATION. THE CONTRACTOR NEEDS TO ALLOW FOR THE POSSIBILITY OF UNDETECTED UNDERGROUND UTILITIES. ALSO, THE CONTRACTOR MUST ALLOW FOR CHANGES DUE TO UTILITIES BEING IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE UTILITY RECORD DRAWINGS. THE CONTRACTOR IS

RESPONSIBLE FOR LOCATING AND EXPOSING CONFLICTS PRIOR TO CONSTRUCTION.

IT IS ESSENTIAL THAT 48 HOURS PRIOR TO CONSTRUCTION ALL UTILITY COMPANIES BE NOTIFIED TO

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#### SEWER: LOWER COLLECTION & TREATMENT AREA PALO BLANCO CREEK - MEDINA RIVER WATERSHED - DIOS RIOS W.R.C.

Developer's Name	SAN ANTONIO	LD, LLC				
Developer's Address	4058 N CO	DLLEGE S	T SUITE 300, BO	X 9		
City FAYETTEVILLE		State _	AR	_ Zip_	72703	
Phone #(479) 4	55-9090		Fax #			
SAWS Block Map #	182-502		Total EDU's		Total Acreage	20.767
Total Linear Footage	of Pipe <u>12" ~ 1</u>	L,398 L.F.	•		Plat No. 22-1	1180031
	114		SAWS Job	No.	23-1584	



AS BUILT / PLAN OF RECORD FEBRUARY 3, 2025

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Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) 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.

OVERALL  $\geq$ S

ANITARY

PROPOSED SANITARY SEWER MAIN & MANHOLE EXISTING SANITARY SEWER MAIN & MANHOLE PROPOSED SERVICE LATERAL WITH ONE-WAY CLEAN-OUT VS E.G.T.CA.E.

ELECTRIC, GAS, TELEPHONE & CABLE TV EASEMENT TEMPORARY BENCHMARK PROPOSED MINIMUM FINISH FLOOR ELEVATION MIN. F.F. = 795.5 SANITARY SEWER/WATER CROSSING LOCATION

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20 LF. OF 160 P.S.I. PRESSURE RATED PVC PIPE CENTERED ACROSS WATER CROSSING (SDR 26).

— SEWER PIPE AT WATER LINE CROSSINGS SHALL MEET THE REQUIREMENTS OF ASTI CENTERED AT WATER MAIN. PROPOSED SANITARY SEWER LINE

#### TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL

### CAUTION:

LEGEND

EXISTING WATER MAIN

EXISTING GATE VALVE

VERTICAL STACK

PROPOSED WATER MAIN PROPOSED FIRE HYDRANT EXISTING FIRE HYDRANT PROPOSED GATE VALVE

**EXISTING UTILITIES:** 

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Total Linear Footage	of Pipe <u>12" ~ 1</u>	L,398 L.F.			Plat No. 22-1	11800313
	114		SAWS Job N	lo	23-1584	

LONESOME DOVE HILLS UNIT 25 VOL 20003, PGS. 937-940 /// O.P.R.B.C.T. EXISTING 8" SANITARY SEWER PHLOX PRARIE MAIN CONSTRUCTED WITH SAWS JOB NO. 21-1709 LINE "K" SEWER LINE "K" TO BE CONSTRUCTED IN THE FUTURE VIA SEPARATE GCS. 12 14

10' B.S.L. & E.G.T.CA. ESM'T.

23

LIVE OAK GROVE LINE "F" EXISTING 8" SANITARY SEWER MAIN CONSTRUCTED WITH SAWS JOB NO. 21-1709 SEWER LINE "F" TO BE **CONSTRUCTED IN THE FUTURE VIA SEPARATE GCS.** 18 20 19 10' B.S.L. & F.G.T.CA. ESM'T.

BLOCK 26

-28

29

27

26

25

32

31

#### 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 available geotechnical information and the anticipated installation site(s) 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.

AS BUILT / PLAN OF RECORD FEBRUARY 3, 2025

NOTE: I HEREBY CERTIFY THAT THESE "PLAN OF RECORD" IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND PREPARED UNDER MY SUPERVISION.

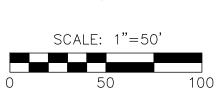


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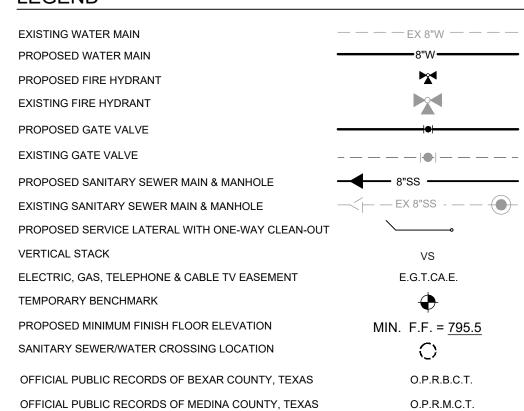
-----8"SS — —( — EX 8"SS - — — <del>( )</del>



OVERALL  $\geq$ S ANITARY



### LEGEND



\* SEPARATION DISTANCE TO COMPLY WITH TCEQ REGULATION 30 TAC 290.44 (E) APPENDIX E & 30 TAC 217.53 (D) APPENDIX D - SEPARATION DISTANCE 20 LF. OF 160 P.S.I. PRESSURE RATED PVC PIPE CENTERED AT WATER MAIN. PROPOSED SANITARY SEWER LINE

#### TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL

### CAUTION:

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- LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY CONTRACTOR PRIOR TO THE CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SAME DURING CONSTRUCTION.
- IT IS ESSENTIAL THAT 48 HOURS PRIOR TO CONSTRUCTION ALL UTILITY COMPANIES BE NOTIFIED TO LOCATE AND TAG THEIR UNDERGROUND FACILITIES PRIOR TO EXCAVATION.
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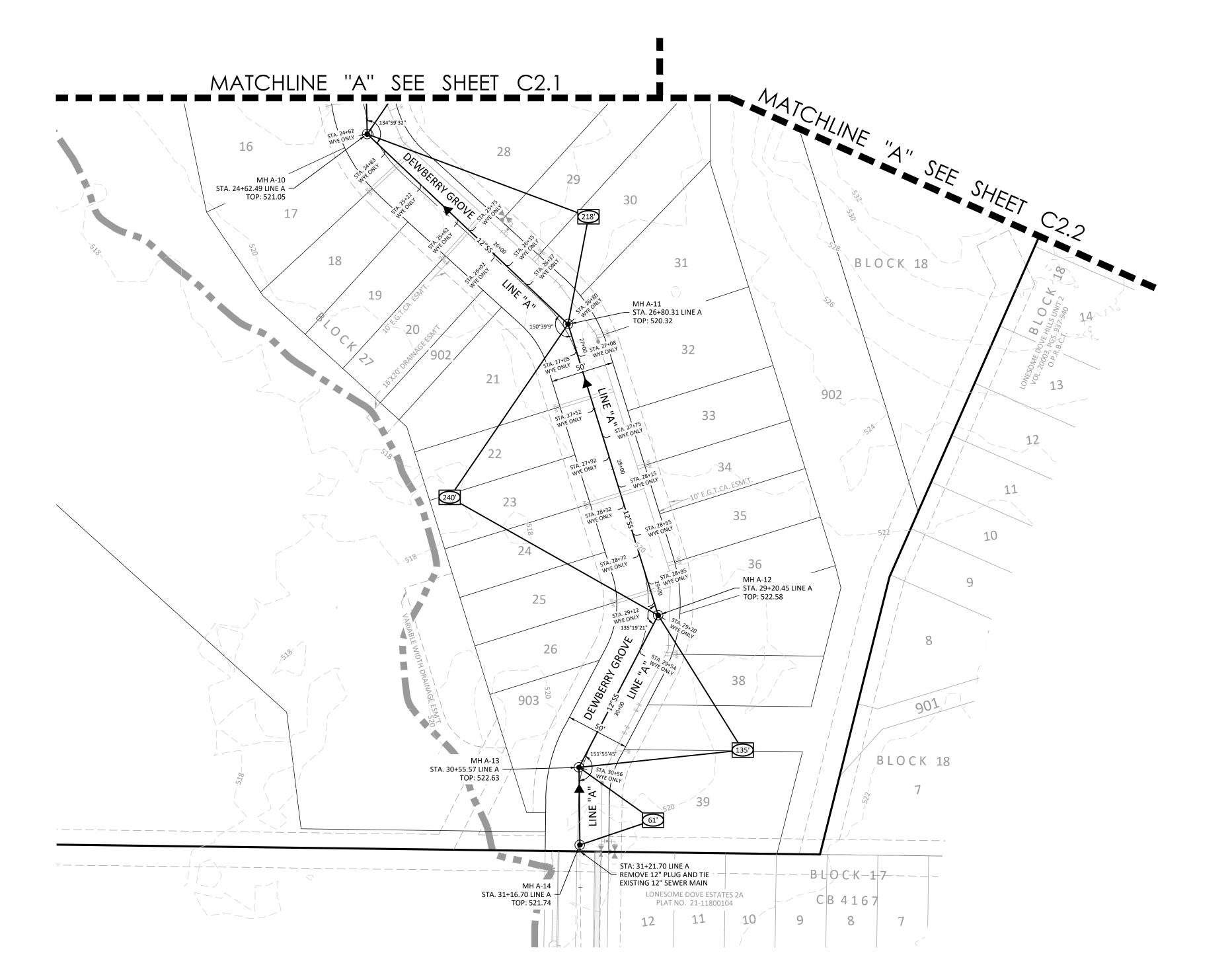
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#### SEWER: LOWER COLLECTION & TREATMENT AREA PALO BLANCO CREEK - MEDINA RIVER WATERSHED - DIOS RIOS W.R.C.

Developer's Name	SAN ANTONIO	LD, LLC				
Developer's Address	4058 N C	OLLEGE S	T SUITE 300, BO	OX 9		
City FAYETTEVILLE		State _	AR	Zip_	72703	
Phone #(479) 4	55-9090		Fax #			
SAWS Block Map #	182-502		Total EDU's		Total Acreage	20.767
Total Linear Footage	of Pipe 12" ~ :	1,398 L.F	•		Plat No. 22-	11800313
Number of Lots	114		SAWS Job	No	23-1584	



AS BUILT / PLAN OF RECORD FEBRUARY 3, 2025

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SHEET

PAUL LANDA, JR. 100182

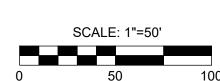
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TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL

PROPOSED SANITARY SEWER LINE

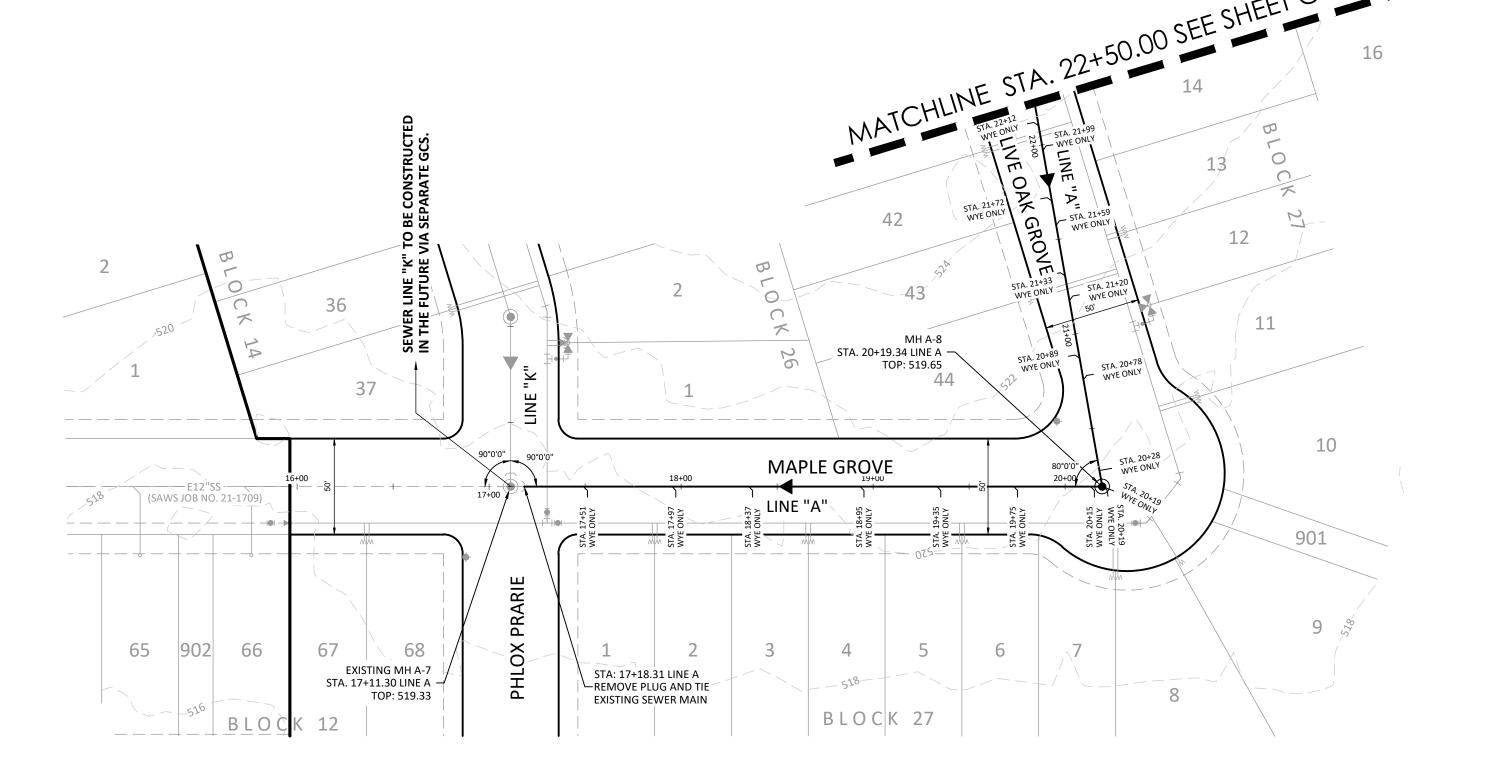
SEPARATION DISTANCE TO COMPLY WITH

\* APPENDIX E & 30 TAC 217.53 (D) APPENDIX D -- SEPARATION DISTANCE

FINISHED GROUND —

20 LF. OF 160 P.S.I. PRESSURE RATED PVC -PIPE CENTERED ACROSS WATER CROSSING (SDR 26). SEWER PIPE AT

WATER LINE CROSSINGS SHALL MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE JOINT CENTERED AT WATER MAIN.



LEGEND

EXISTING WATER MAIN ————EX 8"W ———— PROPOSED WATER MAIN PROPOSED FIRE HYDRANT EXISTING FIRE HYDRANT PROPOSED GATE VALVE EXISTING GATE VALVE ----PROPOSED SANITARY SEWER MAIN & MANHOLE —— EX 8"SS - — — (●) **EXISTING SANITARY SEWER MAIN & MANHOLE** PROPOSED SERVICE LATERAL WITH ONE-WAY CLEAN-OUT VERTICAL STACK VS ELECTRIC, GAS, TELEPHONE & CABLE TV EASEMENT E.G.T.CA.E. TEMPORARY BENCHMARK PROPOSED MINIMUM FINISH FLOOR ELEVATION MIN. F.F. = <u>795.5</u>

SANITARY SEWER/WATER CROSSING LOCATION

OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS O.P.R.B.C.T. OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS O.P.R.M.C.T.

CAUTION:

EXISTING UTILITIES:

- LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY CONTRACTOR PRIOR TO THE CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SAME DURING CONSTRUCTION.
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SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

AS BUILT / PLAN OF RECORD FEBRUARY 3, 2025

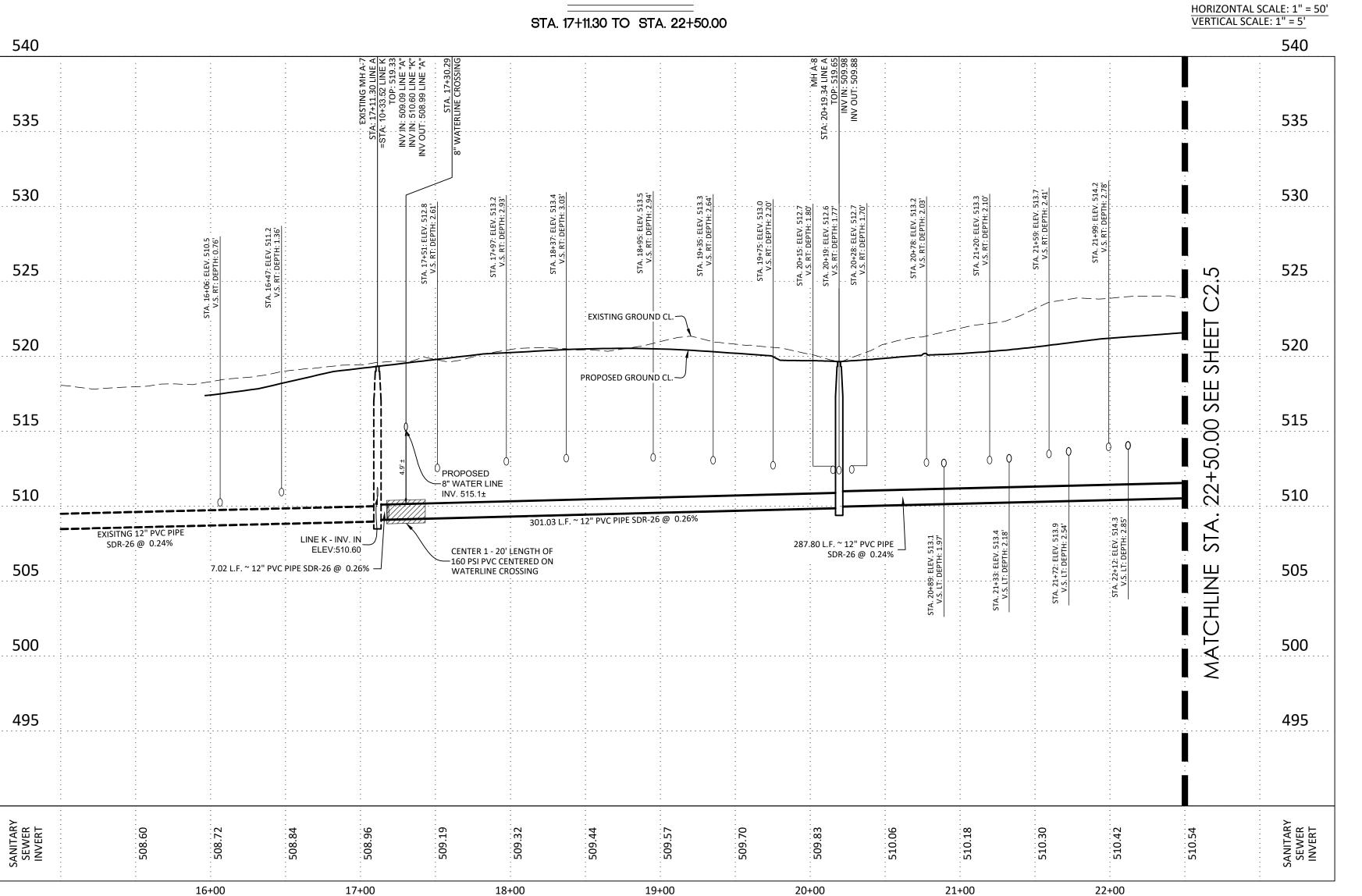
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NOTE: INFORMATION FOR THIS "PLAN OF RECORD" WAS PROVIDED TO MTR ENGINEERS BY THE CONTRACTOR.

#### SEWER: LOWER COLLECTION & TREATMENT AREA PALO BLANCO CREEK - MEDINA RIVER WATERSHED - DIOS RIOS W.R.C.

Developer's Name	SAN ANTONIO	LD, LLC				
Developer's Address	4058 N CC	LLEGE S	T SUITE 300, BO	X 9		
City FAYETTEVILLE		State _	AR	_ Zip_	72703	
Phone #(479) 4	55-9090		Fax #			
SAWS Block Map # _	182-502		Total EDU's		Total Acreage	20.767
Total Linear Footage	of Pipe <u>12" ~ 1</u>	,398 L.F.			Plat No. 22-1	11800313
Number of Lots	114		SAWS Job I	No.	23-1584	





PAUL LANDA, JR. 100182

PRO

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EWER | LINE S SANITARY

26+00

25+00

27+00

28+00

29+00

30+00

31+00

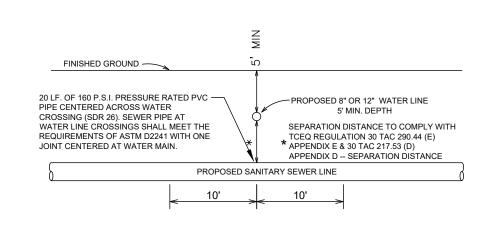
23+00

24+00

### PLAT NO. 22-11800313

O.P.R.M.C.T.

LEGEND EXISTING WATER MAIN — — — EX 8"W — — — — PROPOSED WATER MAIN PROPOSED FIRE HYDRANT EXISTING FIRE HYDRANT PROPOSED GATE VALVE EXISTING GATE VALVE PROPOSED SANITARY SEWER MAIN & MANHOLE **EXISTING SANITARY SEWER MAIN & MANHOLE** PROPOSED SERVICE LATERAL WITH ONE-WAY CLEAN-OUT VERTICAL STACK VS ELECTRIC, GAS, TELEPHONE & CABLE TV EASEMENT E.G.T.CA.E. TEMPORARY BENCHMARK MIN. F.F. = <u>795.5</u> PROPOSED MINIMUM FINISH FLOOR ELEVATION SANITARY SEWER/WATER CROSSING LOCATION OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS O.P.R.B.C.T.



OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS

TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL

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AS BUILT / PLAN OF RECORD FEBRUARY 3, 2025

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Pell

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Developer's Name _	SAN ANTONIO	LD, LLC				
Developer's Address	4058 N CC	LLEGE ST	Γ SUITE 300, BOX	(9		
City_FAYETTEVILLE		State _	AR	Zip_	72703	
Phone # (479) 4	55-9090		Fax #			
SAWS Block Map # _	182-502		Total EDU's		Total Acreage 20.7	67
Total Linear Footage	of Pipe <u>12" ~ 1</u>	,398 L.F.			Plat No. 22-118003	313
Number of Lots	114		SAWS Job N	lo	23-1584	

PLAN-OF-RECORD FEBRUARY 3, 2025

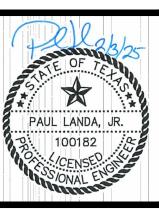
REVISION

DESCRIPTION

D

• Surveyors
• Planners
rez Engineers, LLC
297/SURVEYING: F-10131500
ITE 100 TEL: (210) 698-5051

Moy Tarin Ramire:
TBPELS: ENGINEERING F-5297
12770 CIMARRON PATH, SUITE
SAN ANTONIO, TEXAS 78249



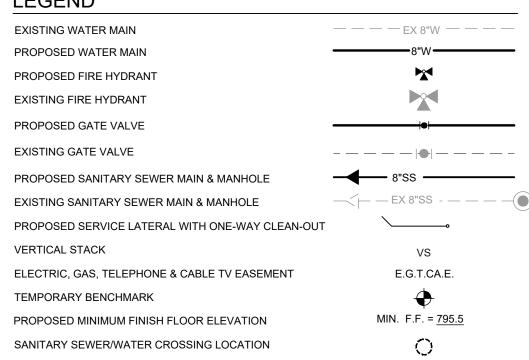
ME DOVE HILLS UNIT 3
EWER PLAN & PROFILE

SANITARY SEWER PLA

SHEET

C2.5

LEGEND



OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS

OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS

FINISHED GROUND PROPOSED 8" OR 12" WATER LINE PIPE CENTERED ACROSS WATER CROSSING (SDR 26). SEWER PIPE AT WATER LINE CROSSINGS SHALL MEET THE SEPARATION DISTANCE TO COMPLY WITH REQUIREMENTS OF ASTM D2241 WITH ONE JOINT CENTERED AT WATER MAIN. \* APPENDIX E & 30 TAC 217.53 (D) APPENDIX D -- SEPARATION DISTANCE PROPOSED SANITARY SEWER LINE

TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL

AS BUILT / PLAN OF RECORD FEBRUARY 3, 2025

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SAN ANTONIO	LD, LLC				
4058 N CO	LLEGE S	T SUITE 300, BOX	<b>(</b> 9		
	State _	AR	_ Zip_	72703	
55-9090		Fax #			
182-502		Total EDU's		Total Acreage	20.767
of Pipe <u>12" ~ 1</u>	,398 L.F.	•		Plat No. 22-1	1800313
114		SAWS Job N	۱o	23-1584	
	4058 N CO 55-9090 182-502 of Pipe 12" ~ 1	4058 N COLLEGE S  State _  55-9090  182-502  of Pipe12" ~ 1,398 L.F.	4058 N COLLEGE ST SUITE 300, BOX State AR  55-9090 Fax #  182-502 Total EDU's  of Pipe 12" ~ 1,398 L.F.	4058 N COLLEGE ST SUITE 300, BOX 9  State AR Zip  55-9090 Fax #  182-502 Total EDU's  of Pipe 12" ~ 1,398 L.F.	4058 N COLLEGE ST SUITE 300, BOX 9  State AR Zip 72703  55-9090 Fax #  182-502 Total EDU's Total Acreage of Pipe 12" ~ 1,398 L.F. Plat No. 22-1

### NOTE TO CONTRACTOR:

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40 33 EXISTING MH F-1 MH A-9 -STA. 4+80.99 LINE F STA. 1+00.12 LINE F TOP: 527.20 =STA. 23+07.14 LINE A SEWER LINE "F" TO BE CONSTRUCTED TOP: 522.01 IN THE FUTURE VIA SEPARATE GCS. LIVE OAK GROVE (SAWS JOB NO. LINE "F \_\_\_\_+ E8"SS \_\_\_ −ı−E8"SS — − (SAWS JOB NO. (SAWS JOB NO. 21-1709) 21-1709) EXISTING 8" SANITARY SEWER
MAIN CONSTRUCTED WITH UNIT 2 SAWS JOB NO. 21-1709

LINE F

STA. 1+00.00 TO STA. 8+69.53

550 550 8+69.52 TOP: INV IN: V OUT: 545 545 540 535 535 530 530 PROPOSED PVM'T. CL.-525 EXISTING GROUND CL.— 520 380.87 L.F. ~ 8" PVC PIPE SDR-26 @ 1.22% INVERT. CONTACTOR TO NOTIFY
ENGINEER OF DISCREPANCY PRIOR 515 SEWER LINE "F" TO BE CONSTRUCTED IN THE FUTURE VIA SEPARATE GCS. 510 510 LINE A - INV. IN ELEV:510.78 LINE A - INV. OUT 505 1+00 2+00 3+00 5+00 9+00

HORIZONTAL SCALE: 1" = 50'

VERTICAL SCALE: 1" = 5'

PAUL LANDA, JR. 100182 N.T.S.

O.P.R.B.C.T.

O.P.R.M.C.T.

SHEET

C2.6

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PLAN

SEWER

SANITARY

DESCRIPTION

• Surveyors
• Planners

Engineers, LLC
SURVEYING: F-10131500

Moy Tarin Ramirez Er BPELS: ENGINEERING F-5297/SUF



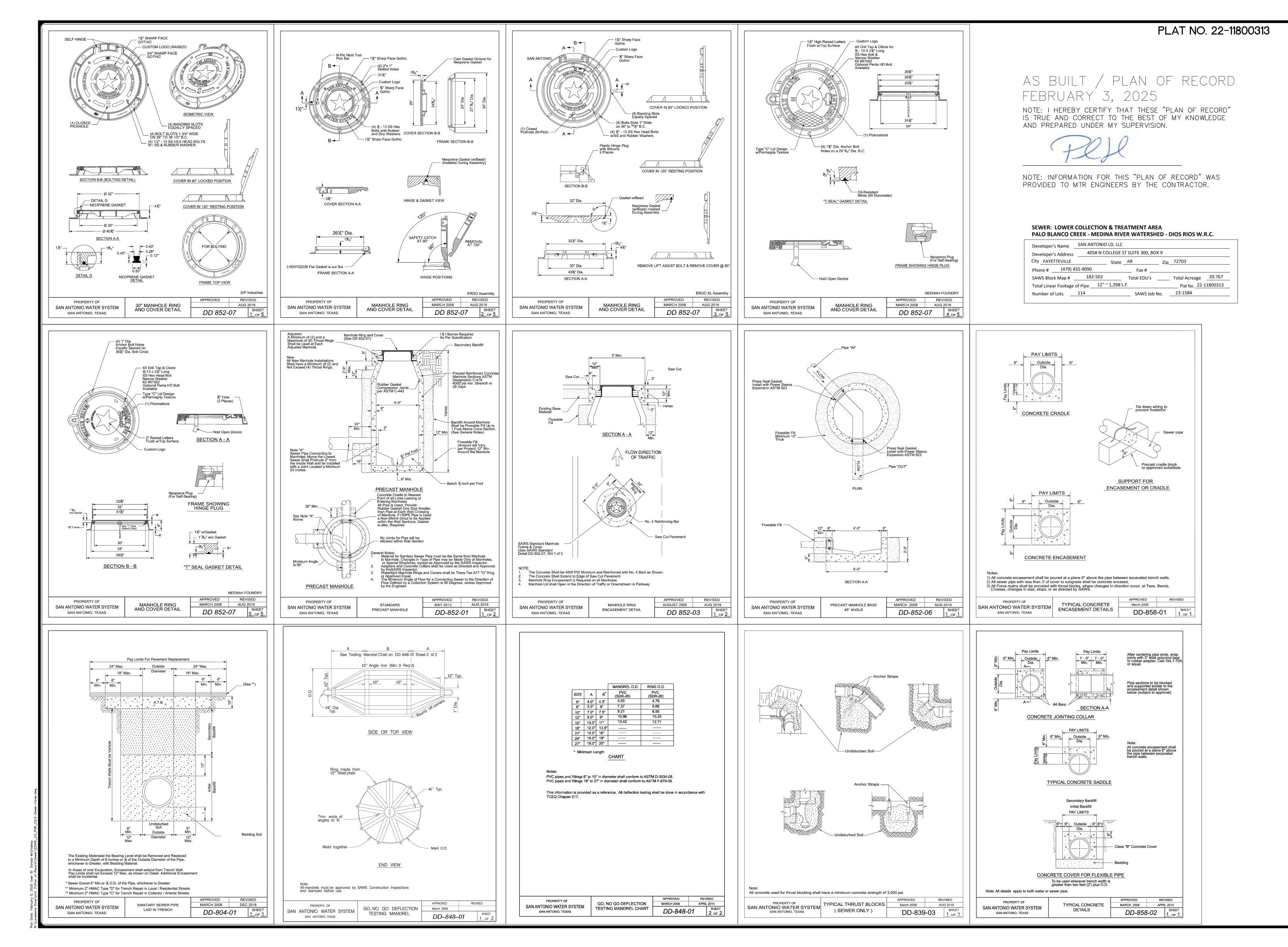
DOWE HILLS UNIT 3

YER PLAN & PROFILE

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ANITARY SEWER PLAN
LINE K

C2.7



AN-OF-RECORD FEBRUARY 3, 2025

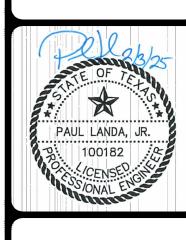
REVISION

DESCRIPTION

PROJ. # DGN. BY: DWN. BY: CHKD. BY: 1

Engineers
Surveyors
Planners
Engineers, LLC
SURVEYING: F-10131500

Moy Tarin Ramirez En TBPELS: ENGINEERING F-5297/SUR 12770 CIMARRON PATH, SUITE 100 SAN ANTONIO, TEXAS 78249



SANITARY SEWER DETAILS

SHEET

C2.8