

L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\01 COVER SHEET.DWG Mar. 27, 2025-1:48 PM BRIAN STROKA

CITY OF MONTGOMERY, TEXAS

LONE STAR RIDGE PHASE 1

WATER, SEWER, DRAINAGE & PAVING

ON BEHALF OF MC MUD 179

PUBLIC IMPROVEMENTS

DEV NO. 2404

ONE-CALL NOTIFICATION SYSTEM
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(713) 223-4567 (in Houston)
(New Statewide Number Outside Houston)
1-800-545-6005

PROJECT NOTES

ENGINEER'S CERTIFICATION:
I CERTIFY THAT THESE PLANS WHICH BEAR MY SEAL HAVE BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND ARE IN COMPLIANCE WITH ALL APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS. THE PROPOSED IMPROVEMENTS SHOWN IN THESE PLANS WILL NOT IMPEDE THE FLOW OF SURFACE WATERS FROM HIGHER ADJACENT PROPERTIES, WILL NOT ALTER THE NATURAL FLOW OF SURFACE WATERS SO AS TO DISCHARGE THEM UPON ADJACENT PROPERTIES AT A MORE RAPID RATE OR IN A DIFFERENT LOCATION, AND WILL NOT CONCENTRATE FLOWS OF SURFACE WATERS IN A MANNER WHICH EXCEEDS THE CAPACITY OF THE RECEIVING WATERCOURSE. THIS CERTIFICATION DOES NOT APPLY TO ANY EXISTING IMPROVEMENTS ON THE SUBJECT PROPERTY.

CIVIL NOTE:
FIELD VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS INCLUDING PAVEMENT AND UTILITY TIE-INS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ALL DISCREPANCIES PRIOR TO BEGINNING ANY WORK.

TDLR NOTE:
TEXAS DEPARTMENT OF LICENSING AND REGISTRATION (TDLR) NUMBER REQUIRED FOR ALL PROPOSED COMMERCIAL BUILDINGS. **IF TDLR NUMBER IS NOT PRESENT, CLIENT IS RESPONSIBLE FOR ACQUIRING REGISTRATION NUMBER PRIOR TO CONSTRUCTION.

WETLAND NOTE:
THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF AN ENVIRONMENTAL OR OTHER WETLANDS STUDY. L SQUARED ENGINEERING IS NOT AN ENVIRONMENTAL ENGINEERING FIRM AND DOES NOT HAVE THE ABILITY TO DETERMINE ENVIRONMENTAL OR WETLAND IMPACTS. THE CLIENT AND/OR OWNER SHALL BE RESPONSIBLE FOR ANY SUCH STUDY AND NOTIFY ENGINEER IF ANY RESULTING CHANGES ARE NEEDED PRIOR TO CONSTRUCTION.

LEGAL DESCRIPTION:
BEING 56.673 ACRES OF LAND IN THE JOHN CORNER SURVEY, A-8, MONTGOMERY COUNTY, TEXAS, SAID 56.673 ACRES BEING THE SAME TRACT OF LAND CALLED 56.711 ACRES AS CONVEYED TO SPEEDY ANGELS LLC, DEED OF WHICH IS RECORDED UNDER COUNTY CLERK'S FILE NUMBER 2021-099784, MONTGOMERY COUNTY REAL PROPERTY RECORDS, SAID 56.673 ACRES.

BENCHMARK: CITY OF MONTGOMERY CONTROL MONUMENT #1
ELEV: 239.70
N:10135441.4753
E:3763481.9132

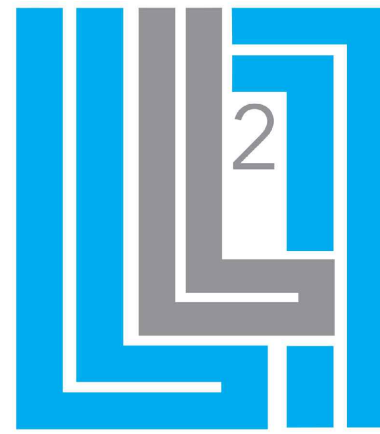
BENCHMARK: CITY OF MONTGOMERY CONTROL MONUMENT #7
ELEV: 291.77
N:10135557.5370
E:3758356.4600

SITE BENCHMARK: TEMP BENCHMARK NO-1 ELEV: 280.53
TEMPORARY BENCHMARK NO-1 IS A SQUARE CUT ON THE SOUTHEAST CORNER OF A S.E.T. BOX ON THE NORTH SIDE OF LONESTAR PARKWAY APPROXIMATELY 242 FEET WEST OF THE SOUTHEAST CORNER OF THE HEREIN DESCRIBED TRACT.

SITE BENCHMARK: TEMP BENCHMARK NO-2 ELEV: 227.41
TEMPORARY BENCHMARK NO-2 IS A SQUARE CUT ON THE BACK OF CURB ON THE EAST SIDE OF THE MEDIAN AT THE ENTRANCE OF BUFFALO SPRINGS DRIVE ON THE EAST SIDE OF NORTH BUFFALO SPRINGS DRIVE.
N:10140376.8640
E:3761143.5820

FLOODPLAIN:
A PORTION OF THE SUBJECT TRACT IS LOCATED IN THE 1% ANNUAL CHANCE OF FLOOD HAZARD AREA (ZONE "AE") (100 YEAR FLOODPLAIN) ACCORDING TO THE FEMA FIRM PANEL MAP NO. 438339C0200G DATED AUG. 18, 2014.

SURVEY NOTE:
SURVEY PROVIDED BY JEFFREY MOON & ASSOC., INC. DATED 01/28/2024. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.



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MUNICIPAL COMMERCIAL RESIDENTIAL
WWW.L2ENGINEERING.COM
PRO REGISTRATION NUMBER 127058
3307 W. DAVIS STREET #100
CONROE, TEXAS 77384
OFFICE: 281-467-0400

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HOUSTON, TX 77042

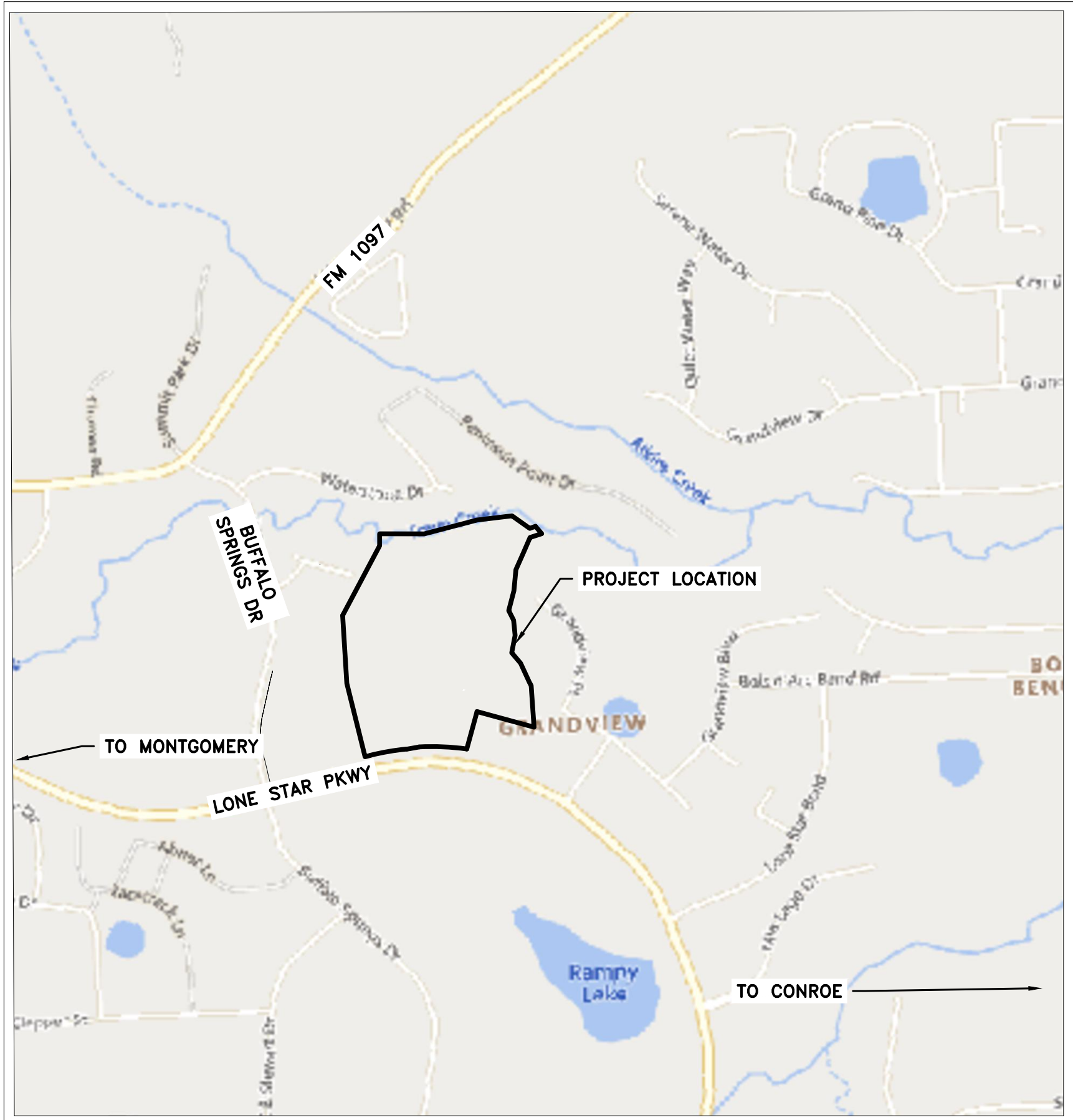
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

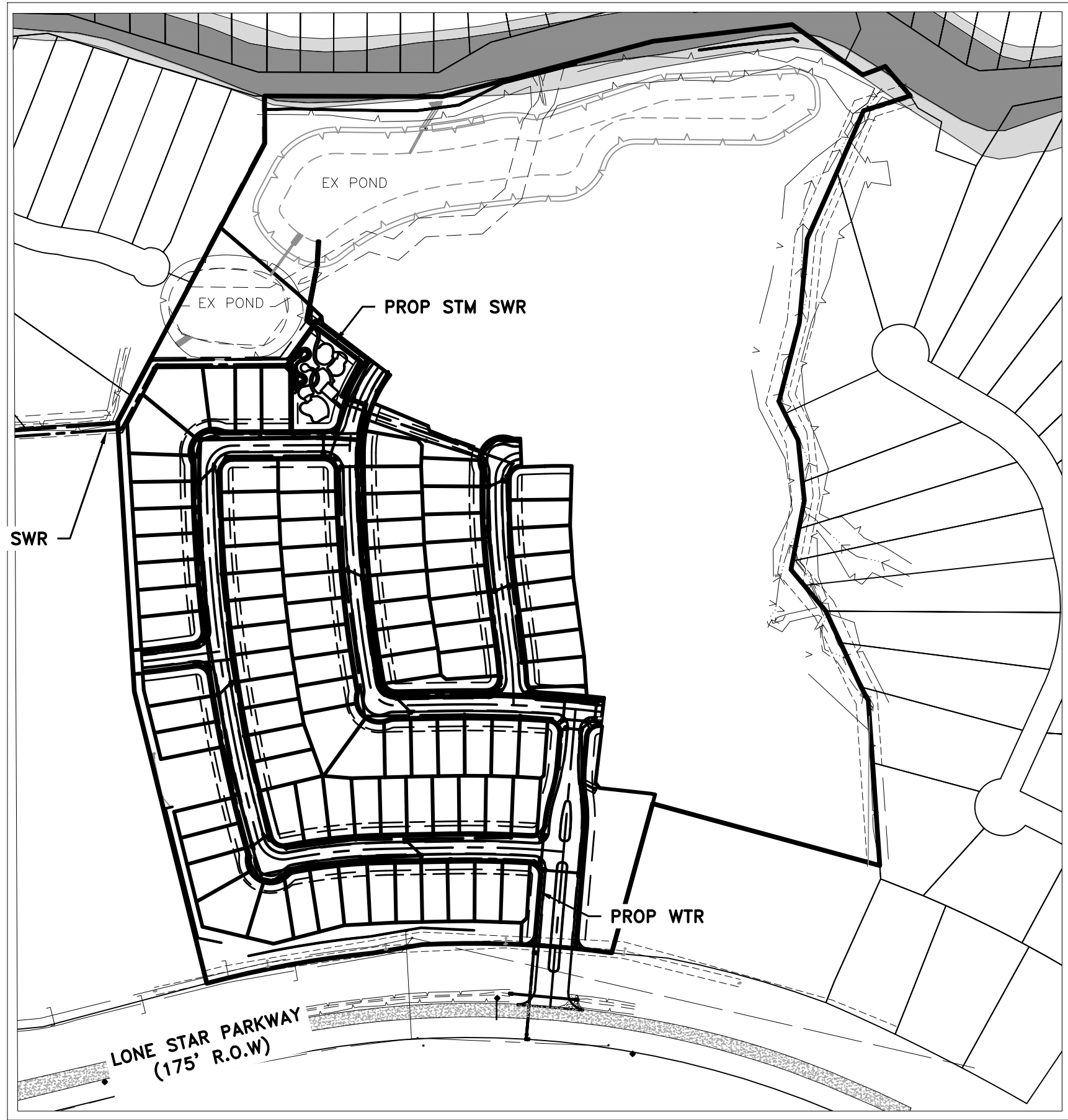
COVER SHEET

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46	PAVING DETAILS 2 OF 2



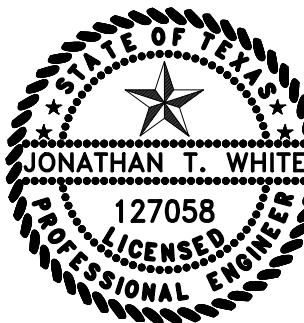
VICINITY MAP
SCALE: 1" = 1000'



PROJECT MAP
SCALE: 1" = 250'

CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

DATE



03/27/2025

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\02 CONSTRUCTION NOTES.DWG Mod. 27, 2025-1:49 PM BRIAN STROKA

REFERENCE SPECIFICATIONS:

APPLICABLE ENTITY DETAILS & SPECIFICATIONS SHALL APPLY. WHEN NO SUCH INFORMATION EXISTS, CONTRACTOR SHALL THEN REFERENCE CITY OF MONTGOMERY DETAILS AND SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES:

1. MATERIALS, CONSTRUCTION AND TESTING TO BE IN ACCORDANCE WITH THE GOVERNING ENTITY'S ORDINANCES AND SPECIFICATIONS, LATEST PRINTING AND AMENDMENTS THERETO.

2. CONTRACTOR TO OBTAIN ALL DEVELOPMENT AND CONSTRUCTION PERMITS REQUIRED BY ALL ENTITIES AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK.

3. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS 48 HOURS PRIOR TO COMMENCEMENT OF WORK IN STREET RIGHTS-OF-WAY OR EASEMENTS.

4. ALL EXISTING UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETED OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE. CONTRACTOR HAS SOLE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL EXISTING FACILITIES SHOWN ON DRAWINGS. CONTRACTOR SHALL COORDINATE ALL CONFLICTS WITH THE APPROPRIATE GOVERNING AGENCY.

5. THE LOCATION OF LUFKIN-CONROE TELEPHONE EXCHANGE OR AT&T COMPANY, ENTEX, AND ENTERGY-GSU (GULF STATES UTILITIES) UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL REQUEST THE EXACT LOCATION OF THESE FACILITIES BY CALLING THE UTILITY COMPANIES, AT LEAST 48 HOURS BEFORE COMMENCING WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH OCCURS DUE TO HIS FAILURE TO REQUEST THE LOCATION AND PRESERVATION OF THESE UNDERGROUND FACILITIES. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

6. TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN 6 FEET OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATION, TITLE 29, PART 1910.130(1) AND PART 1928.440 (A) (15) REQUIRE A MINIMUM CLEARANCE OF 10 FEET FROM THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITIES, WITH CONTRACTORS AND OWNERS BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THESE LAWS. IF YOU OR YOUR COMPANY MUST WORK NEAR ENERGIZED OVERHEAD POWER LINES, CALL THE POWER COMPANY FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT YOUR EXPENSE.

7. CONSTRUCTION SHALL COMPLY WITH THE LATEST REVISIONS OF OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING TRENCHING AND SHORING. CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET, AS A MINIMUM, THE REQUIREMENTS OF OSHA SAFETY AND HEALTH REGULATION, PART 1926, SUB-PART P AS PUBLISHED IN THE FEDERAL REGISTER, VOLUME 54, NO. 209, DATED OCTOBER 31, 1989.

8. DETAILS SHOWN DO NOT EXTEND OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY CHAPTER 756, SUBCHAPTER "C" OF THE TEXAS HEALTH AND SAFETY CODE.

9. CONTRACTOR SHALL COVER OPEN EXCAVATIONS WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS, ALONG EXISTING ROADWAYS AND TRAFFIC AREAS.

10. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE GOVERNING ENTITY. ALL CONSTRUCTION RUNOFF MANAGEMENT AND RAILROAD RIGHT-OF-WAYS TO BE BORED ACCORDING TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGMEN, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION IN ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS OR PROVIDE ALL-WEATHER DETOURS AROUND CONSTRUCTION SITE, PROVIDE PUBLIC NOTIFICATION, AND USE UNIFORMED POLICE OFFICERS TO CONTROL TRAFFIC.

12. EXISTING PAVEMENTS, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE GOVERNING ENTITY'S STANDARDS. ALL ASPHALT AND CONCRETE DRIVEWAYS EXCAVATED DURING CONSTRUCTION SHALL BE BACKFILLED WITH STABILIZED MATERIAL AND RETURNED TO EXISTING CONDITIONS. ALL STATE AND COUNTY HIGHWAY PAVEMENT AND RAILROAD RIGHT-OF-WAYS TO BE BORED ACCORDING TO THE RULES, REGULATIONS AND REQUIREMENTS FOR APPROVAL AND ACCEPTANCE BY SAID AGENCIES.

13. EXISTING ROADS AND/OR RIGHT-OF-WAYS DISTURBED DURING CONSTRUCTION SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING THE WORK, UPON COMPLETION OF THE PROJECT.

14. AFTER DISTURBED AREAS HAVE BEEN COMPLETED TO THE LINES, GRADES, AND CROSS-SECTIONS SHOWN ON THE PLANS, SEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS TO ESTABLISH ADEQUATE VEGETATION COVERAGE TO ELIMINATE EROSION. IF NO PROVISION FOR PLANTING GRASS IS INCLUDED IN THE PLANS OR SPECIFICATIONS, THE MINIMUM REQUIREMENT FOR THIS ITEM WILL BE IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR "SODDING OR SEEDING FOR EROSION CONTROL."

15. ALL TRENCHES, INCLUDING TRENCHES FOR LEADS AND STUBS UNDER PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL CURBS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND IN ACCORDANCE WITH THE POINT IMMEDIATELY BELOW THE SUBGRADE. TRENCHES OTHER THAN UNDER PAVEMENT SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL IN 6 INCH LAYERS AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM DESIGNATION D-698/ASTM 199). MOISTURE CONTENT OF BACKFILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CEMENT STABILIZED SAND SPECIFICATIONS. SEE GOVERNING ENTITY'S STANDARD DETAIL SHEETS FOR BEDDING AND OTHER DESIGN REQUIREMENTS.

16. CONTRACTOR TO REMOVE EXISTING PLUGS AND CONNECT TO EXISTING UTILITY LINES AS INDICATED ON PLANS.

17. UNLESS OTHERWISE NOTED ON PLANS, WHERE MANHOLES ARE LOCATED WITHIN THE UTILITY EASEMENTS, THE CONTRACTOR SHALL SET RIM ELEVATIONS TWO INCHES ABOVE FINISHED GROUND ELEVATIONS.

18. WHEN TRENCH CONDITION REQUIRES THE USE OF WELL POINTS, THIS IS TO BE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE MUD AND/OR DIRT DEPOSITED ON EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY DAILY. ALL EQUIPMENT AND DEBRIS FROM CONSTRUCTION TO BE MOVED AT END OF PROJECT.

SANITARY SEWER CONSTRUCTION NOTES:

1. SANITARY SEWERS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LATEST SPECIFICATIONS FOR SEWER CONSTRUCTION, AND TESTED AS SPECIFIED FROM THE LATEST TEST PROCEDURE FOR EITHER LIQUID OR AIR, INCLUDING ALL AMENDMENTS AND REVISIONS THERETO. BACKFILL AND BEDDING FOR SANITARY SEWERS MUST MEET ALL MINIMUM ASPECTS OF ASTM D-2321 AND MUST BE PLACED IN ACCORDANCE WITH THE APPLICABLE ENTITY'S SPECIFICATIONS.

2. ALL SANITARY SEWER MANHOLES SHALL BE STANDARD THE APPLICABLE ENTITY PRE-CAST USING RIM-NECK OR CAST IN PLACE CONCRETE IN ACCORDANCE WITH ASTM C-478. NO BRICK MANHOLES ALLOWED. FOR PVC PIPE USE MANHOLE WATER STOP GASKET AND CLAMP ASSEMBLY AT MANHOLE CONNECTIONS. SANITARY SEWER MANHOLE RIMS SHALL BE 3 INCHES ABOVE NATURAL GROUND. BACKFILL SHALL BE ADDED AND SLOPED AWAY FROM THE MANHOLE RIM FOR DRAINAGE PURPOSES.

3. MANHOLE CONCRETE BOTTOM FOUNDATION SHALL BE 12" REINFORCED WITH #5 BARS AT 12", ON CENTERS, EACH WAY, WITH A MINIMUM OF 6" EXTRA SLAB LENGTH AROUND THE MANHOLE, IF POURED IN PLACE. APPROVED CHEMICALS SHALL BE USED FOR PATCHING AROUND MANHOLE JOINTS. MORTAR CEMENT WILL NOT BE ACCEPTED.

4. SANITARY SEWER PIPE SHALL BE PVC SDR 26 OR PVC SDR 35 (WITH APPROVAL), IN ACCORDANCE WITH ASTM SPECIFICATIONS D-3034, FOR 4" THROUGH 15" AND ASTM F-879 FOR 18" THROUGH 27". MINIMUM SIZE SANITARY SEWER MAIN IS 6". SDR 35 MAY BE USED WHEN DEPTH IS MORE THAN 3 FEET AND LESS THAN 6 FEET.

5. SEWER LINES SHALL BE LOCATED ON THE OPPOSITE SIDE OF THE STREET FROM WHERE WATER IS LOCATED. SEWER LINE AND WATER LINE SEPARATION SHALL BE IN ACCORDANCE WITH TEXAS NATURAL RESOURCE CONSERVATION COMMISSION RULES, CHAPTER 317.13 APPENDIX E.

6. NO SEWER PIPE SHALL BE LAID ON AN UNSTABLE FOUNDATION. SELECTED MATERIAL SHALL BE USED AND/OR WET SAND CONSTRUCTION DETAILS, WHICHEVER APPLIES IN THE OPINION OF THE ENGINEER. NO PIPE SHALL BE COVERED WITHOUT APPROVAL OF THE ENGINEER OR HIS REPRESENTATIVE. SANITARY SEWERS CONSTRUCTED IN WET SAND SHALL HAVE A SPECIAL PROCEDURE AND SHALL BE CONSTRUCTED AS PER THE APPLICABLE ENTITY STANDARDS.

7. WHEN THE NATURAL GROUND LEVEL AROUND MANHOLE LIES BELOW THE 100 YEAR FLOODPLAIN ELEVATION, THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEALED AND VENTED MANHOLE DETAIL.

8. A DEFLECTION TEST SHALL BE REQUIRED AFTER THE BACKFILL HAS BEEN IN PLACE A MINIMUM OF 30 DAYS. THIS TEST SHALL BE DONE BY PULLING A HAND LINE WITH AN ATTACHED MANDREL FROM MAN-HOLE TO MANHOLE; THE MANDREL SHALL HAVE AN OUTSIDE DIAMETER THAT IS AT LEAST 95% OF THE ORIGINAL INSIDE DIAMETER OF THE PIPE. MANDREL TO BE MANUFACTURED WITH A MINIMUM OF SEVEN (7) RUNNERS, WITH EACH RUNNER BEING A MINIMUM OF 5 INCHES LONG. ANY PIPE NOT MEETING EST REQUIREMENTS IS TO BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

9. INFILTRATION/EXFILTRATION NOT TO EXCEED 200 GALLONS PER INCH DIAMETER PER MILE OF PIPE FOR 24 HOURS UNDER A MINIMUM OF 2 FEET OF HEAD, OR AN AIR TEST SHALL BE REQUIRED IN ACCORDANCE WITH ASTM C-828.

10. WHERE A SEWER LINE HAS LESS THAN (2) FEET OF COVER, PROVIDE CEMENT STABILIZED SAND BACKFILL MATERIAL.

11. CONTRACTOR SHALL KEEP RECORD OF LOCATION OF ALL STACKS, STUBS, SEWER LEADS, ETC. THE AS-BUILT MYLAR DRAWINGS MUST SHOW THE EXACT LOCATION.

12. IF SANITARY SERVICE LEADS ARE INSTALLED DURING CONSTRUCTION OF MAIN LINE, ALL LEADS TO HAVE A MINIMUM SLOPE OF 0.70% OR GREATER. ALL PVC LEADS TO BE THE SAME MATERIAL AS MAIN LINE. ALL DOUBLE SERVICE LEADS TO HAVE WYE LOCATED ON THE END OF THE LEAD. ALL SINGLE SERVICE LEADS TO BE 4 INCH, AND ALL DOUBLE SERVICE LEADS TO BE 6 INCH.

13. THE INSTALLATION OF ALL SANITARY SEWER LINES SHALL EXTEND ALONG THE ENTIRE LENGTH OF THE PROPERTY TO BE SERVED. SANITARY SEWER LINES THAT DEAD END SHALL EXTEND TO THE PROJECT LIMITS FOR FUTURE EXTENSIONS, WITH DEPTHS BASED ON ENTIRE SERVICE AREA.

STORM WATER QUALITY NOTES:

1. IF THE PROJECT DISTURBS 10 ACRES, COVERAGE IS REQUIRED UNDER THE TPDES GENERAL PERMIT TXR150000 FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION, INSPECTION, AND MAINTENANCE OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. THE COSTS TO IMPLEMENT, INSPECT, AND MAINTAIN THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE SWPPP BID ITEMS.

2. IF THE PROJECT DISTURBS GREATER THAN 5 ACRES, A NOTICE OF INTENT (NOI) SHALL BE SUBMITTED TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AT LEAST 7 DAYS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TCEQ COMPLIANCE, PLAN IMPLEMENTATION AND MAINTENANCE DURING CONSTRUCTION. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE A COPY OF THE CONTRACTOR'S NOTICE OF INTENT (NOI) AND PROOF THAT IT HAS BEEN SENT TO THE TCEQ.

3. COPIES OF THE CONTRACTOR'S NOI AND CONSTRUCTION SITE NOTICE (CSN) SHALL BE POSTED AT THE SITE BY THE CONTRACTOR. COPIES SHALL ALSO BE SUBMITTED TO THE PROJECT OWNER AND ENGINEER. THE CONTRACTOR SHALL LAMINATE AND POST THE TWO NOIS, TWO CSNS AND ANY "SECONDARY OPERATOR" CSNS ON THE PROJECT SITE AT A LOCATION WITH EASY ACCESS TO THE PUBLIC FOR CLEAR VIEWING AND AS APPROVED BY THE ENGINEER. THE COST OF LAMINATION AND POSTING OF THE NOIS & CSNS SHALL BE CONSIDERED INCIDENTAL TO THE SWPPP BID ITEMS.

4. UPON COMPLETION OF CONSTRUCTION ACTIVITIES AND FINAL STABILIZATION OF THE SITE, AS DEFINED BY THE TPDES GENERAL PERMIT, A NOTICE OF TERMINATION (NOT) IS REQUIRED TO BE SUBMITTED TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ). WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE A COPY OF THE CONTRACTOR'S NOTICE OF TERMINATION (NOT) AND PROOF THAT IT HAS BEEN SENT TO THE TCEQ.

5. A RAIN GAUGE SHALL BE KEPT ON THE PROJECT SITE OR WITHIN THE IMMEDIATE PROJECT VICINITY. RECORDS OF RAINFALL EVENTS SHALL BE KEPT BY THE CONTRACTOR TO ASSIST WITH DETERMINING IF AN SWPPP SITE INSPECTION IS REQUIRED. THE COSTS FOR THE RAIN GAUGE SHALL BE CONSIDERED INCIDENTAL TO THE SWPPP BID ITEMS.

6. THE SWPPP, INSPECTION & MAINTENANCE REPORTS, CERTIFICATIONS, RAINFALL RECORDS, MAJOR GRADING DATE RECORDS AND TEMPORARY AND PERMANENT STABILIZATION DATE RECORDS SHALL BE KEPT CURRENT BY THE CONTRACTOR AND IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. COPIES OF ALL SWPPP RECORDS SHALL BE KEPT ON-SITE, IF FEASIBLE, UNTIL THE NOTICE OF TERMINATION HAS BEEN SUBMITTED TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ). THE SWPPP RECORDS SHALL BE MADE READILY AVAILABLE TO ENGINEER AND REGULATORY AUTHORITIES UPON AN ON-SITE INSPECTION. THE CONTRACTOR SHALL DELIVER COPIES OF ALL SWPPP RECORDS TO PROJECT OWNER AND ENGINEER AS DIRECTED BY THE ENGINEER.

STORM SEWER NOTES:

1. STORM SEWER AND LEADS SHALL BE REINFORCED CONCRETE PIPE, ASTM C-76, CLASS III, WITH 0-RING RUBBER GASKETS, AND SHALL BE INSTALLED, BEDDED AND BACKFILLED IN ACCORDANCE WITH THE GOVERNING ENTITY'S STANDARDS AND SPECIFICATIONS

NOTE: HDPE PIPE MAY BE USED PROVIDED THAT IT IS BACKFILLED WITH CEMENT STABILIZED SAND (2 SACKS CEMENT/TON), OR OTHER BACKFILL MATERIALS THAT HAVE BEEN APPROVED BY THE GOVERNING ENTITY. SEE NOTES BELOW.

2. ALL PROPOSED PIPE STUB OUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH 8 INCH BRICK WALLS UNLESS OTHERWISE NOTED.

3. ALL BOX CULVERTS INSTALLED SHALL BE PLACED ON A MINIMUM OF 6 INCHES OF CEMENT STABILIZED SAND (CEMENT STABILIZED SAND SHALL BE 1 1/2 SACK CEMENT PER TON). FOR INSTALLATION OF PRE-CAST CONCRETE BOX CULVERTS IN POOR SOIL CONDITIONS, A 7 INCH REINFORCED CONCRETE SLAB SHALL BE INSTALLED FOR INSTALLATION OF MONOLITHIC REINFORCED CONCRETE BOX CULVERTS IN POOR SOIL CONDITIONS, A 4 INCH THICK CLASS "C" CONCRETE SEAL SLAB SHALL BE INSTALLED, PRIOR TO CONSTRUCTION OF BOX CULVERTS.

4. STORM SEWER MANHOLES SHALL BE STANDARD PRE-CAST, UNLESS OTHERWISE NOTED.

5. ALL INLETS TO BE TO THE DETAIL SPECIFICATIONS SHOWN IN THE PLANS OR APPROVED EQUAL OR UNLESS OTHERWISE STATED ON PLANS. INLETS TO BE STANDARD DEPTH UNLESS OTHERWISE NOTED.

6. ALL STORM SEWER LEADS SHALL BE 18 INCH MINIMUM UNLESS OTHERWISE INDICATED, GRADE DROP ON LEADS BETWEEN INLETS TO BE A MINIMUM OF 0.20 FOOT. GRADE DROP BETWEEN INLET AND MANHOLES TO BE 0.20 FOOT UNLESS OTHERWISE SHOWN. WHEN MANHOLE FRAME AND COVER IS REQUIRED, USE EAST JORDAN 24" FRAME AND COVER (OR EQUAL).

9. FOR ADJUSTMENT OF MANHOLE LIDS USE STANDARD CONCRETE RINGS.

10. CONCRETE USED FOR ALL POURED-IN-PLACE MANHOLES, INLETS, WINGWALLS, HEADWALLS AND OTHER APPURTENANCES TO BE CLASS "A" CONCRETE WITH 3,000 P.S.I. STRENGTH AT 28 DAYS.

11. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4".

12. OTHER BACKFILL MATERIALS MAY BE USED BASED ON THE GEOTECHNICAL REPORT OR PER HDPE SPECIFICATIONS. BACKFILL MUST BE USED WITH APPROPRIATE COMPACTION.

13. SEE MANUFACTURERS SPECIFICATIONS FOR THE USE OF HIGH DENSITY POLYETHYLENE PIPE FOR STORM DRAINS FOR SPECIFIC TECHNICAL INFORMATION.

WATER CONSTRUCTION NOTES:

1. CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURE AS SPECIFIED IN THE APPLICABLE ENTITY STANDARD DRAWINGS AND REQUIREMENTS FOR WATER MAIN CONSTRUCTION AND MATERIALS.

2. PRIOR TO INSTALLATION OF WATER METER, WATER METER LEAD OR UNMETERED FIRE SPRINKLER LINE, THE CONTRACTOR SHALL CONTACT THE PERMIT DIVISION.

3. PRIOR TO WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE GOVERNING ENTITY'S ENGINEER AND COMPLY WITH ALL REQUIREMENTS NECESSARY FOR THE ISSUANCE OF A WORK ORDER FOR THE WATER MAIN CONSTRUCTION.

4. SEPARATION DISTANCES FOR ALL WATER MAIN AND SANITARY SEWER MAIN CONSTRUCTION SHALL BE GOVERNED BY THE "TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES AND REGULATIONS FOR DESIGN CRITERIA FOR WATER SYSTEMS", SECTION 290, LATEST PRINTING. REFER TO THE THE APPLICABLE ENTITY DESIGN MANUAL WATER MAIN DESIGN REQUIREMENTS.

5. TWELVE-INCH (12") AND SMALLER MAINS SHALL HAVE A MINIMUM COVER OF FOUR FEET (4') FROM THE TOP OF THE CURB OR FIVE FEET (5') FROM THE MEAN ELEVATION OF THE BOTTOM OF THE NEARBY DITCH AND NEARBY RIGHT-OF-WAY ELEVATION FOR OPEN DITCH SECTIONS.

6. MAINS LARGER THAN TWELVE-INCHES (12") SHALL HAVE A MINIMUM COVER OF FIVE FEET (5') FROM THE TOP OF THE CURB OR SIX FEET (6') FROM THE MEAN ELEVATION FOR OPEN DITCH SECTIONS.

7. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED BEFORE BACTERIOLOGICAL TESTING IN ACCORDANCE WITH AWWA STANDARD C-600.

8. ALL WATER PIPING SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED PRIOR TO USE IN ACCORDANCE WITH AWWA STANDARD C-601.

9. ALL WATER MAINS 4" THROUGH 12" SHALL BE C-900 (SDR-18). ALL WATER MAINS 14" THROUGH 36" SHALL BE C-905 (SDR-18).

10. PRIOR TO BACKFILLING OF ALL UNDERGROUND WATER LINES, INSTALL A CONTINUOUS #14 COPPER TRACER WIRE, LOCATED DIRECTLY OVER BURIED LINES AND ACCESSIBLE AT EACH VALVE STACK.

11. THE INSTALLATION OF ALL WATER LINES SHALL EXTEND ALONG THE ENTIRE LENGTH OF THE PROPERTY TO BE SERVED. WATER LINES THAT DEAD END SHALL EXTEND TO THE PROJECT LIMITS FOR FUTURE EXTENSIONS.

PAVING NOTES:

1. IF PROPOSED SEMI-RIGID BASE WITH 2 INCH TYPE "D" HOT MIX ASPHALTIC CONCRETE SURFACING, FOR URBAN ESTATES ONLY, SEMI-RIGID BASE MAY BE 7 INCH CEMENT STABILIZED SHELL, 8 INCH CRUSHED LIMESTONE, OR 6 INCH HOT MIX ASPHALTIC CONCRETE.

2. EXPOSE 15 INCHES OF REINFORCING STEEL AT ALL PROPOSED SAWED JOINTS. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS PER NOTE #4.

3. REQUIRE A ONE (1) INCH REDWOOD EXPANSION BOARD OR PRE-MOLDED NON-EXTRUDING JOINT BETWEEN SIDEWALK AND BACK OF CURB.

4. HORIZONTAL DOWELS SHALL BE NO. 6 BARS, 24 INCHES LONG, DRILLED AND EMBEDDED 8 INCHES INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" OR EQUAL. DOWELS SHALL BE 24 INCHES CENTER TO CENTER UNLESS OTHERWISE SPECIFIED.

5. WHEN PROPOSED PAVEMENT ENDS AT A CONSTRUCTION JOINT LEAVE 15 INCHES OF REINFORCING STEEL EXPOSED BEYOND PAVEMENT, COAT WITH ASPHALT, AND WRAP WITH BURLAP FOR FUTURE PAVEMENT TIE-IN. AT EXPANSION JOINTS, EXTEND DOWELS 8 INCHES; COAT AND WRAP SAME AS CONSTRUCTION JOINTS.

6. WHEREVER A SIDEWALK IS REQUIRED BY GOVERNING ENTITY'S ORDINANCE, PROVIDE WHEELCHAIR RAMP AND/OR SIDEWALKS IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD WHEELCHAIR RAMP AND SIDEWALK DETAILS".

7. ADJUST EXISTING MANHOLE FRAMES AND COVERS TO FIT NEW GRADE.

8. ADJUST EXISTING WATER VALVE BOXES TO NEW PAVING GRADE. REPLACE ALL MISSING OR DAMAGED VALVE BOXES AND COVERS.

9. PLACE WHITE OR YELLOW PLASTIC MARKER OR PAINT AS SHOWN BY THE UNIFORM TRAFFIC MANUAL FOR PAVEMENT MARKINGS.

10. PROVIDE A CONCRETE PAVING HEADER AT THE END OF THE PAVEMENT.

11. T. C. INDICATES TOP OF CURB ELEVATION AND T. P. INDICATES TOP OF PAVEMENT ELEVATION.

12. CURB RADI AT STREET INTERSECTIONS TO BE 24.50 FEET TO BACK OF CURB WITH A MINIMUM OF ONE (1) PERCENT GRADE UNLESS OTHERWISE NOTED.

13. GUIDELINES SET FORTH IN THE "TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" WILL BE OBSERVED.

14. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT ALL RADIUS RETURNS AND AT A MAXIMUM SPACING OF 60 FOOT INTERVALS.

15. CONTRACTOR WILL USE CONTINUOUS LONGITUDINAL REINFORCING BARS IN CURBS AS SHOWN ON DETAILS PROVIDED IN CONSTRUCTION DRAWINGS.

16. CYLINDER COMPRESSION TEST OR BEAM FLEXURAL TEST SHALL BE REQUIRED. TWO SAMPLES SHALL BE TAKEN FOR EACH 100 CUBIC YARDS OF CONCRETE POURED. FOR SMALLER QUANTITIES, TWO SAMPLES SHALL BE TAKEN REGARDLESS OF THE AMOUNT OF CONCRETE POURED EACH DAY. CONCRETE SHALL HAVE 5 SACKS CEMENT PER CUBIC YARD AND A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS OR A MINIMUM FLEXURAL STRENGTH OF 600 PSI IN 28 DAYS. NO TRAFFIC SHALL BE ALLOWED ON CONCRETE FOR 28 DAYS. IF EXTRA TESTS ARE MADE 75% OF THE 28 DAY STRENGTH IS ACHIEVED THE GOVERNING ENTITY'S ENGINEER MAY ALLOW TRAFFIC ON THE PAVEMENT IF IT DEEMS NECESSARY.

17. PRIOR TO PLAN APPROVAL, A CERTIFIED LAB SHALL DETERMINE THE PERCENTAGE OF CEMENT CONTENT FOR SUBGRADE STABILIZATION IN SANDY SOILS WITH P.I. LESS THAN 10 TO OBTAIN A COMPRESSIVE STRENGTH OF 400 PSI IN 28 DAYS. THE LAB SHALL ALSO DETERMINE THE PERCENTAGE OF LIME CONTENT FOR SUBGRADE STABILIZATION IN CLAY SOILS WITH A P.I. GREATER THAN 20. ALL STREETS SHALL BE TESTED EVERY 200 FEET AND SUBGRADE SHALL BE STABILIZED UNLESS THE LAB CERTIFIES THE P.I. TO BE BETWEEN 10 AND 20 AND THAT STABILIZATION IS NOT NEEDED.

18. A CONCRETE MIX DESIGN BY THE CERTIFIED LAB SHALL BE SUBMITTED TO AND APPROVED BY THE GOVERNING ENTITY'S ENGINEER BEFORE ANY CONCRETE IS POURED.

19. A MINIMUM OF TWO (2) COMPACTION TESTS SHALL BE PERFORMED A MAXIMUM DISTANCE OF 500 FEET, AND FOR EACH 2'-6" MAXIMUM THICK LAYERS OF FILL. IN AREAS WHERE NO FILL IS REQUIRED, TWO (2) SAMPLES SHALL BE TAKEN AT A MAXIMUM DISTANCE OF 500 FEET. ADDITIONAL TESTING SHALL BE PERFORMED IF SEEN NECESSARY BY THE ENGINEER. NO ADDITIONAL LAYERS OF FILL SHALL BE MADE WITHOUT HAVING THE LAB'S WRITTEN APPROVAL OF COMPLETED LAYERS. PROOF ROLLING SHALL BE REQUIRED BY THE INSPECTOR ON EACH LAYER PLACED AND ANY "PUMPING" AREAS SHALL BE REMOVED IMMEDIATELY AND REPLACED OR STABILIZED AND RE-COMPACTED TO A PASSING DENSITY.

20. CONSTRUCTION OF ITEMS THAT ARE NOT SPECIFICALLY ADDRESSED TO BE IN ACCORDANCE WITH THE TEXAS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS (LATEST REVISION).

21. RIGHT-OF-WAY SHALL BE SLOPED FROM THE PROPERTY TO THE TOP OF CURB AND HYDROMULCHED OR SODDED BEFORE FINAL ACCEPTANCE BY THE GOVERNING ENTITY TO CONTROL EROSION INTO THE STREET AND STORM SEWER.

22. MEMBRANE CURING TYPE 2, WHITE PIGMENTED, SHALL BE USED FOR CURING ALL CONCRETE SURFACES IMMEDIATELY AFTER FINISHING OF SURFACES AND SHALL BE IN ACCORDANCE WITH THE TEXAS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS ITEM #526.

23. ALL FIRST STAGE INLET CONSTRUCTION SHALL BE PROTECTED WITH 3 INCH THICK BOARDS AT ALL TIMES.

24. ALL SUBGRADE AND EMBANKMENT AREAS SHALL BE STRIPPED OF ALL ORGANIC AND UNSUITABLE MATERIAL BEFORE STABILIZATION OR FILLING IS BEGUN. MATERIAL USED FOR FILL SHALL BE CERTIFIED BY A LAB TO HAVE A PLASTICITY INDEX BETWEEN 10 AND 20.

25. FORMS SHALL BE SET TO THE PROPER GRADE AND PROPERLY SUPPORTED SO THAT NO DISPLACEMENT OCCURS WITH THE PAVING ACTIVITIES. ALL CONCRETE SHALL BE VIBRATED BY MECHANICAL MEANS TO INSURE PROPER COMPACTION AND NO HONEY COMBS.

26. CONCRETE SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 40° F. AND FALLING, BUT MAY BE PLACED WHEN TEMPERATURE IS ABOVE 35° F. AND RISING. THE TEMPERATURE SHALL BE TAKEN IN THE SHADE AND AWAY FROM ARTIFICIAL HEAT.

27. THE CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES TO ADEQUATELY PROTECT THE PAVEMENT. THE CONTRACTOR SHALL HAVE PERSONNEL ON SITE UNTIL THE PAVEMENT HAS REACHED SUFFICIENT STRENGTH AS NOT TO BE DAMAGED BY ANIMALS OR FOOT TRAFFIC.

28. JOINT SEALING MATERIAL SHALL BE A HOT POURED RUBBER TYPE AND SHALL MEET THE REQUIREMENTS IN ACCORDANCE WITH TEST METHOD TEX-525-C, OR AN APPROVED EQUAL. TAR WILL NOT BE ALLOWED.

29. JOINTS SHALL BE CLEANED OF ALL SCALE, DIRT, DUST, CURING COMPOUND, AND CONCRETE TO THE WIDTH AND DEPTH OF THE JOINT AND SHALL BE DRY BEFORE SEALING IS PERFORMED.

30. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM 615 GRADE 60 (GRADE 40 ONLY FOR BARS REQUIRING BENDING). REINFORCING STEEL SHALL BE SUPPORTED ON CHAIRS STRONG ENOUGH TO HOLD IT IN PLACE AND BE TIED.

31. CONCRETE FOR PAVEMENT SHALL MEET TEXAS DEPARTMENT OF HIGHWAY STANDARD SPECIFICATIONS AND SHALL BE A MINIMUM OF 5 SACK, 3,000 PSI UNLESS STATED SPECIFICALLY BY THE PLANS OR THE SPECIFICATIONS.

32. CONCRETE PAVEMENT SHALL BE CURED TO VERIFY THICKNESS OF CONCRETE AT INTERVALS OF 1,000 LINEAR FEET PER TRAFFIC LANE, IF REQUIRED BY THE GOVERNING ENTITY ENGINEER.

CITY OF MONTGOMERY GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT CITY OF MONTGOMERY CITY ENGINEER, KATHERINE VU AT (713)789-1900 A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.

2. CONTRACTOR SHALL CONTACT CITY OF MONTGOMERY DIRECTOR OF PUBLIC WORKS, MIKE MUCKLERORY AT (936) 597-6434 A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION TO SET UP AN INSPECTION TO VERIFY CITY'S FACILITIES.

3. CONTRACTOR TO CONTACT CITY OF MONTGOMERY UTILITY OPERATOR PHILIP WRIGHT OF HAYS UTILITY NORTH CORPORATION AT (936) 588-1168 A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION TO SET UP AN INSPECTION TO VERIFY CITY'S FACILITIES.

4. THE CITY UTILITY OPERATOR AND PUBLIC WORKS FOREMAN SHALL BE NOTIFIED 24 HOURS IN ADVANCE TO WITNESS AND INSPECT ANY SANITARY SEWER LINE CONNECTION. NO SANITARY SEWER LINES SHALL BE BACKFILLED BEFORE THE CITY'S UTILITY OPERATOR OR PUBLIC WORKS FOREMAN HAS INSPECTED THE CONNECTION.

5. ALL WATERLINES TO BE DEDICATED TO THE PUBLIC SHALL INCLUDE A CONTINUOUS #14 COPPER TRACER WIRE, LOCATED DIRECTLY OVER BURIED LINES AND ACCESSIBLE AT EACH VALVE STEM.

6. CONTRACTOR SHALL CONTACT THE CITY'S UTILITY OPERATOR OR PUBLIC WORKS FOREMAN TO OPERATE ANY VALVES. AT THE TIME THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE TO OPERATE ANY PART OF THE CITY OF MONTGOMERY WATER SYSTEM.

7. THE OWNER OR CONTRACTOR SHALL INSTALL AND TEST APPROPRIATE BACKFLOW PREVENTION, PER THE CITY OF MONTGOMERY RULES & REGULATIONS.

8. ALL TAPS TO THE CITY'S SYSTEM SHALL BE MADE BY THE CITY'S OPERATOR AT THE OWNERS EXPENSE.

9. STORMWATER POLLUTION PROTECTIONS MUST BE IN PLACE PRIOR TO ANY CONSTRUCTION COMMENCES AND MUST REMAIN IN PLACE UNTIL CONSTRUCTION HAS CONCLUDED. ALL PROTECTION MEASURES MUST BE INSPECTED EVERY 30 DAYS, OR AFTER A RAIN EVENT OF ANY SIZE, WHICHEVER IS SOONER.

10. ALL CONSTRUCTION DRAWINGS MUST INCLUDE A TRAFFIC CONTROL MEASURES THAT MUST BE APPROVED BY THE APPROPRIATE JURISDICTION PRIOR TO CONSTRUCTION BEGINNING AND COORDINATED WITH SAID JURISDICTION THROUGHOUT THE DURATION OF CONSTRUCTION.

LEGEND:

EX ADJOINER LINE, ADJ
EX SANITARY, SAN
EX WATERLINE, WL
EX STORM SEWER, STM
EX DRAINAGE PATH, FL
EX HIGH BANK, HB
EX EASEMENT, ESMT
EX BUILDING LINE, BL
EX OVERHEAD POWER, P
EX UNDERGROUND POWER, UG
EX FIBER, FO
EX TELEPHONE, T
EX GAS LINE, G
EX FENCE, FNC

EX ZONE X, 500 YR FLOODPLAIN, FP
EX ZONE AE, 100 YR FLOODPLAIN, FP
EX FLOODWAY
EX WETLANDS
NATURAL GROUND, NG
PROJECT BOUNDARY LINE, BNDY
PROP PHASE LINE
PROP SANITARY, SAN
PROP FORCE MAIN, FM
PROP WATERLINE, WL
PROP STORM SEWER, STM
PROP DRAINAGE PATH, FL
PROP HIGH BANK, HB
PROP EASEMENT, ESMT
PROP BUILDING LINE, BL
PROP OVERHEAD POWER, P
PROP UNDERGRD POWER, UG
PROP FIBER, FO
PROP TELEPHONE, T
PROP GAS LINE, G
PROP FENCE, FNC
PROP PAVEMENT, PVMT BC
PROP FACE OF CURB 4", FC
PROP FACE OF CURB 6", FC
PROP CASING
FINISHED GRADE, FG
INVERT ELEVATION, IE
CROWN ELEVATION, CE

FLOODPLAIN LEGEND:

100 YEAR FLOODPLAIN
FLOODWAY

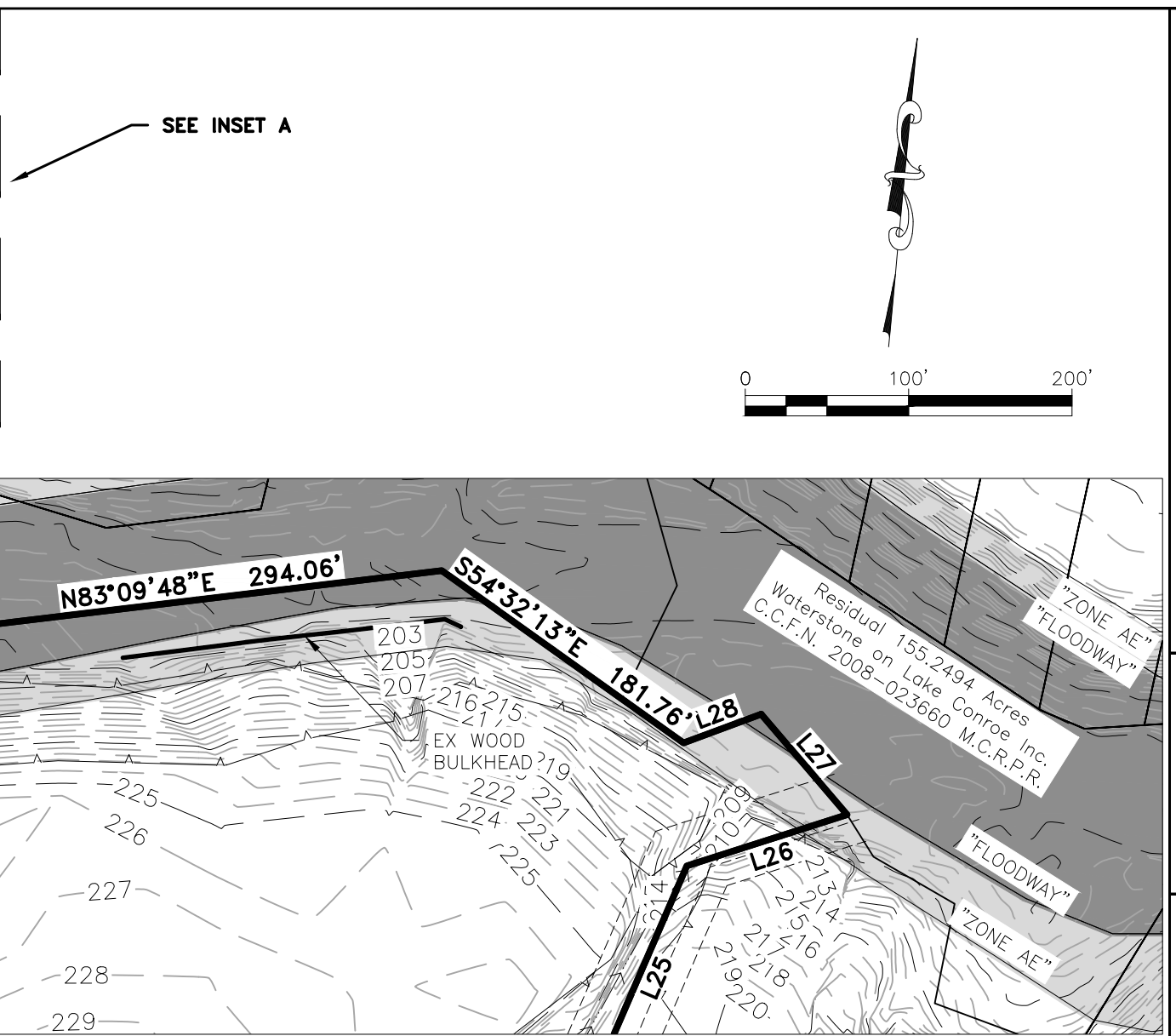
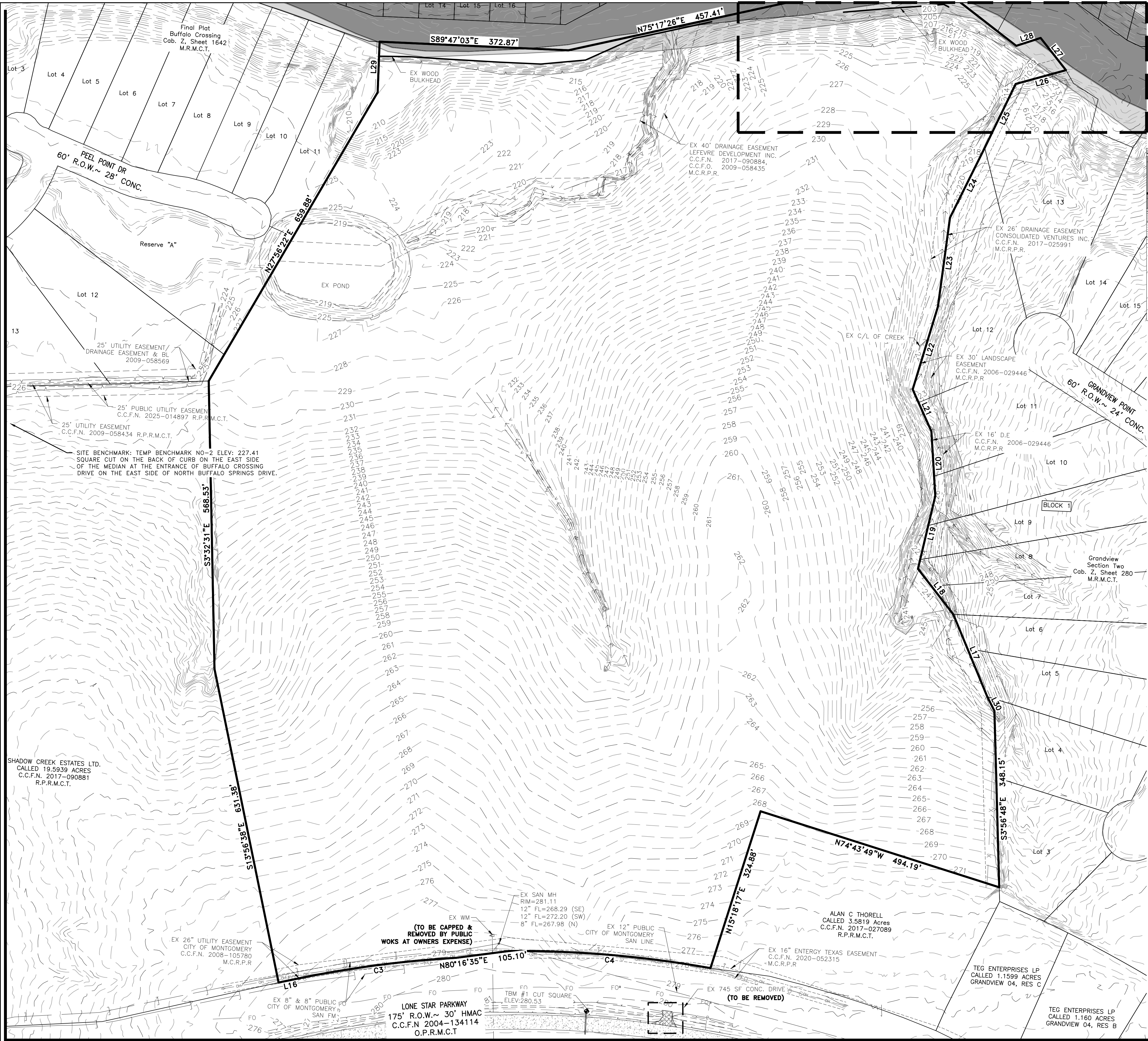
BENCHMARK: CITY OF MONTGOMERY CONTROL MONUMENT #1
ELEV:239.70
N:10135441.4753
E:3763481.9132

BENCHMARK: CITY OF MONTGOMERY CONTROL MONUMENT #7
ELEV:291.77
N:10135557.5370
E:3758356.4600

SITE BENCHMARK: TEMP BENCHMARK NO-1 ELEV: 280.53
TEMPORARY BENCHMARK NO-1 IS A SQUARE CUT ON THE SOUTHEAST CORNER OF A S.E.T. BOX ON THE NORTH SIDE OF LONESTAR PARKWAY APPROXIMATELY 242 FEET WEST OF THE SOUTHEAST CORNER OF THE HEREIN DESCRIBED TRACT.
N:10138940.7300
E:3762500.8660

SITE BENCHMARK: TEMP BENCHMARK NO-2 ELEV: 227.41
TEMPORARY BENCHMARK NO-2 IS A SQUARE CUT ON THE BACK OF CURB ON THE EAST SIDE OF THE MEDIAN AT THE ENTRANCE OF BUFFALO CROSSING DRIVE ON THE EAST SIDE OF NORTH BUFFALO SPRINGS DRIVE.
N:10140376.8640
E:3761143.5820

L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\03 EXISTING CONDITIONS SURVEY & DEMOLITION PLAN.DWG Mar. 27, 2025-1:49 PM BRIAN STROKA



LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	100.04'	N 0° 12' 04" W
L2	50.61'	N 69° 37' 08" E
L3	80.92'	S 40° 33' 34" E
L4	102.93'	S 72° 16' 20" W
L5	139.90'	S 23° 26' 22" W
L6	154.10'	S 24° 01' 29" W
L7	176.94'	S 5° 19' 30" W
L8	170.96'	S 14° 33' 43" W
L9	90.60'	S 26° 26' 55" E
L10	127.60'	S 5° 51' 20" E
L11	147.74'	S 10° 59' 35" W
L12	113.86'	S 40° 12' 16" E
L13	175.51'	S 24° 47' 52" E
L14	31.61'	S 29° 04' 32" E

CURVE TABLE						
CURVE #	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD LENGTH	TANGENT
C1	399.66'	2150.00'	10° 39' 02"	N 87° 32' 34" W	399.08'	200.40'
C2	309.93'	2140.00'	8° 17' 53"	S 80° 12' 21" W	309.66'	155.24'

DEMOLITION LEGEND:



745 SF OF PAVEMENT TO BE DEMOLISHED



INDICATES OTHER ITEMS TO BE DEMOLISHED AS DESCRIBED (CONTRACTOR TO VERIFY EACH ITEM WITH OWNER PRIOR TO CONSTRUCTION IN REGARDS TO REMOVAL, STORAGE AND/OR DISPOSAL)

DEMOLITION NOTES:

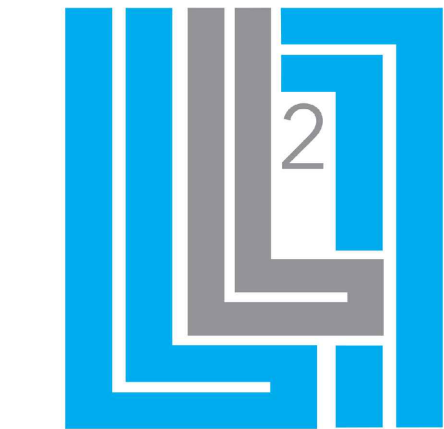
- ALL DEMOLISHED MATERIALS NOT TO BE SAVED OR REUSED BY OWNER ARE TO BE REMOVED FROM SITE AT CONTRACTOR'S EXPENSE.
- REMOVED WATER METER SHALL BE RETURNED TO THE CITY OF MONTGOMERY PUBLIC WORKS DEPARTMENT.

UTILITY NOTE:

- CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES LOCATION AND ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

DATE



L SQUARED ENGINEERING
MUNICIPAL COMMERCIAL RESIDENTIAL

WWW.L2ENGINEERING.COM
PROF. REGISTRATION NUMBER 12345

3307 W. DAVIS STREET #100
CONROE, TEXAS 77384
OFFICE: 281-447-0600

CLIENT INFORMATION

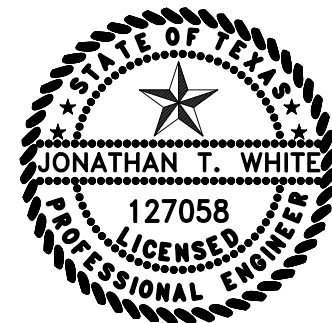
TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77062

PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
EXISTING CONDITIONS SURVEY &
DEMOLITION PLAN

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

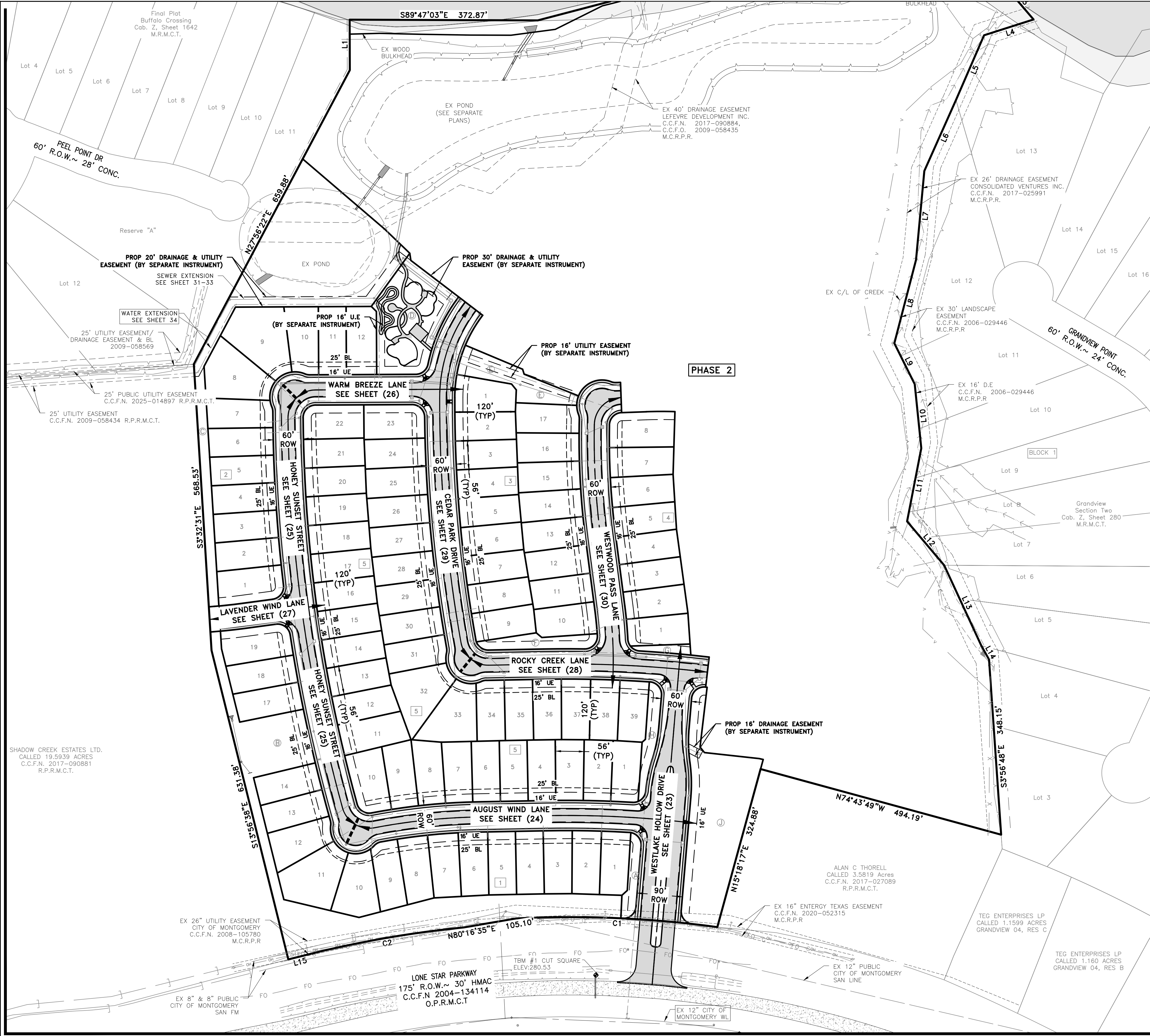
DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 100' (24X36) 1" = 200' (11X17)	SHEET	04



03/27/2025

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

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- LEGEND:
- (A) RESERVE
 - 1 LOT NUMBERS... 73 LOTS (PHASE 1)
 - [1] BLOCK NUMBERS



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LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1 WATER, SEWER, DRAINAGE & PAVING ON BEHALF OF MC MUC 179

OVERALL SUBDIVISION INDEX

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DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	SHEET		
1" = 100' (24x36)	05		
1" = 200' (11x17)			



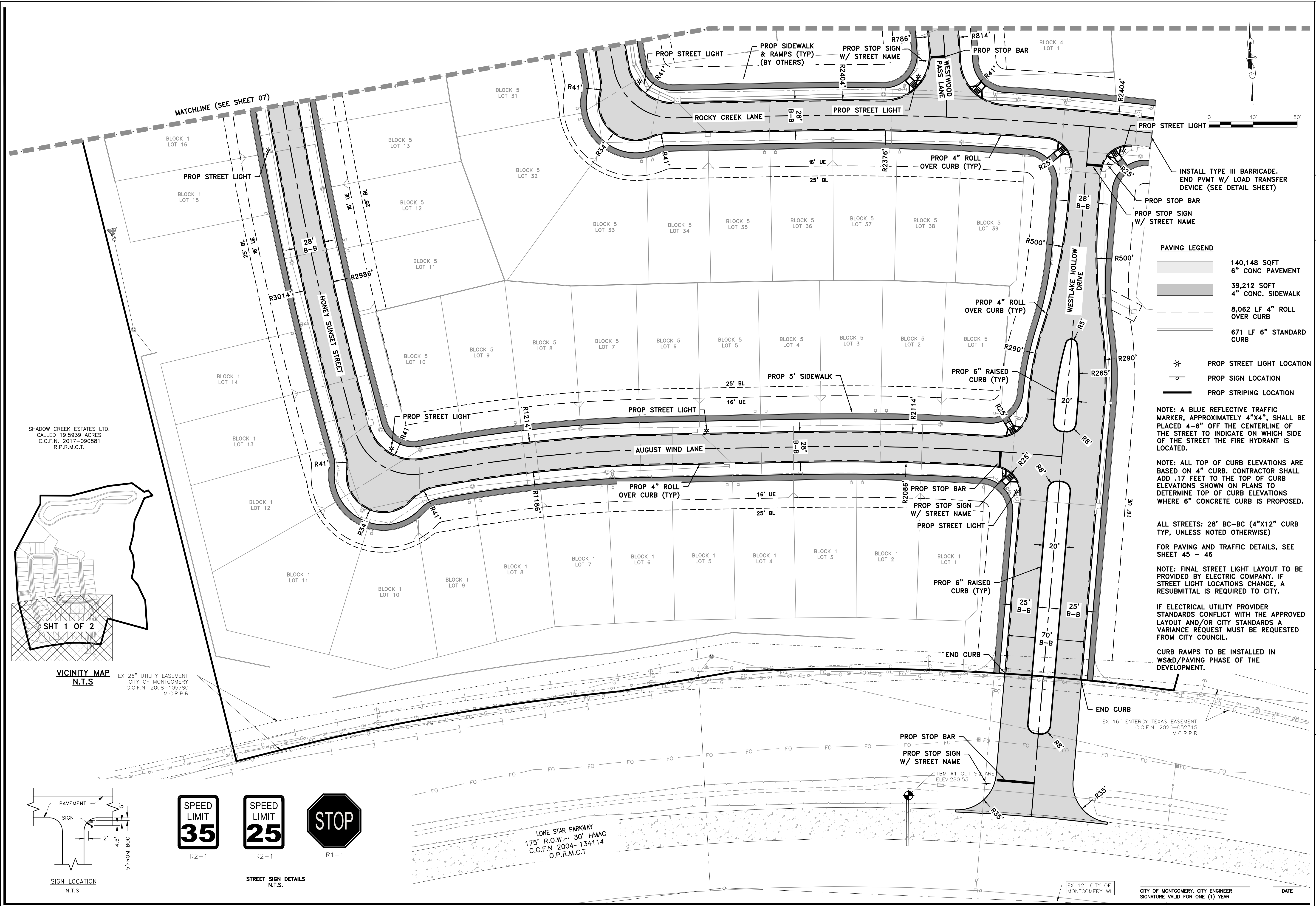
CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

DATE

03/27/2025

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L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\05 TRAFFIC & PAVING PLAN.DWG Mod. 27, 2025-1:50 PM BRIAN STROKA





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PAVING LEGEND

	140,148 SQFT 6" CONC PAVEMENT
	39,212 SQFT 4" CONC. SIDEWALK
	8,062 LF 4" ROLL OVER CURB
	671 LF 6" STANDARD CURB

* PROP STREET LIGHT LOCATION
o PROP SIGN LOCATION
— PROP STRIPING LOCATION

NOTE: A BLUE REFLECTIVE TRAFFIC MARKER, APPROXIMATELY 4"x4", SHALL BE PLACED 4-6" OFF THE CENTERLINE OF THE STREET TO INDICATE ON WHICH SIDE OF THE STREET THE FIRE HYDRANT IS LOCATED.

NOTE: ALL TOP OF CURB ELEVATIONS ARE BASED ON 4" CURB. CONTRACTOR SHALL ADD .17 FEET TO THE TOP OF CURB ELEVATIONS SHOWN ON PLANS TO DETERMINE TOP OF CURB ELEVATIONS WHERE 6" CONCRETE CURB IS PROPOSED.

ALL STREETS: 28" BC-BC (4"x12" CURB TYP, UNLESS NOTED OTHERWISE)

FOR PAVING AND TRAFFIC DETAILS, SEE SHEET 45 - 46

NOTE: FINAL STREET LIGHT LAYOUT TO BE PROVIDED BY ELECTRIC COMPANY. IF STREET LIGHT LOCATIONS CHANGE, A RESUBMITTAL IS REQUIRED TO CITY.

IF ELECTRICAL UTILITY PROVIDER STANDARDS CONFLICT WITH THE APPROVED LAYOUT AND/OR CITY STANDARDS A VARIANCE REQUEST MUST BE REQUESTED FROM CITY COUNCIL.

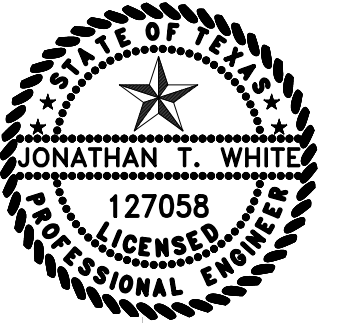
CURB RAMPS TO BE INSTALLED IN WS&D/PAVING PHASE OF THE DEVELOPMENT.

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

TRAFFIC & PAVING PLAN 1 OF 2

DRAWING ISSUE			
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DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 40' (24x36) 1" = 80' (11x17)	SHEET	06

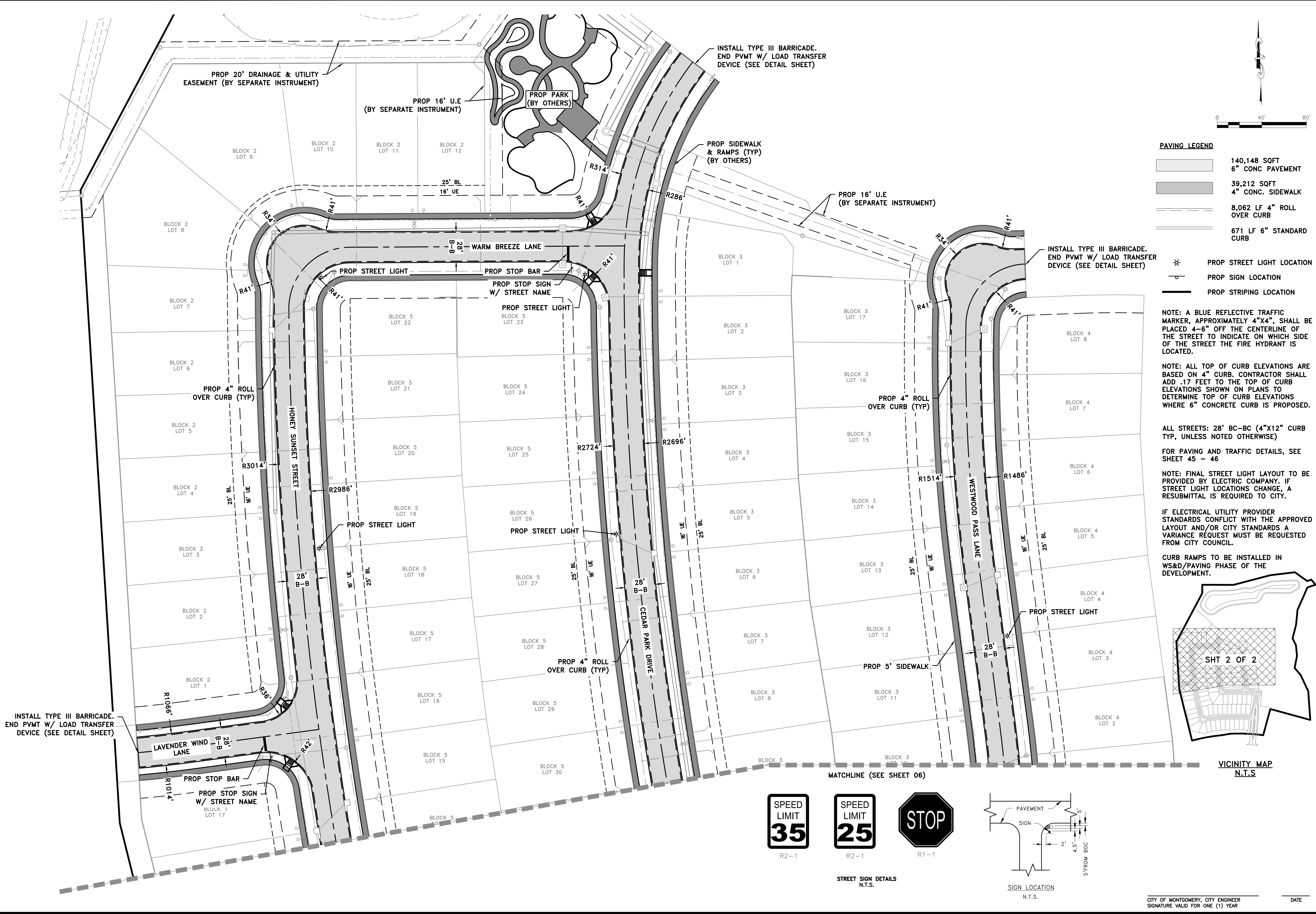



JONATHAN T. WHITE
127058
LICENSED PROFESSIONAL ENGINEER

03/27/2025

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L SQUARED ENGINEERING
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PRO REGISTRATION NUMBER 12252
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LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
TRAFFIC & PAVING PLAN 2 OF 2

DRAWING ISSUE			
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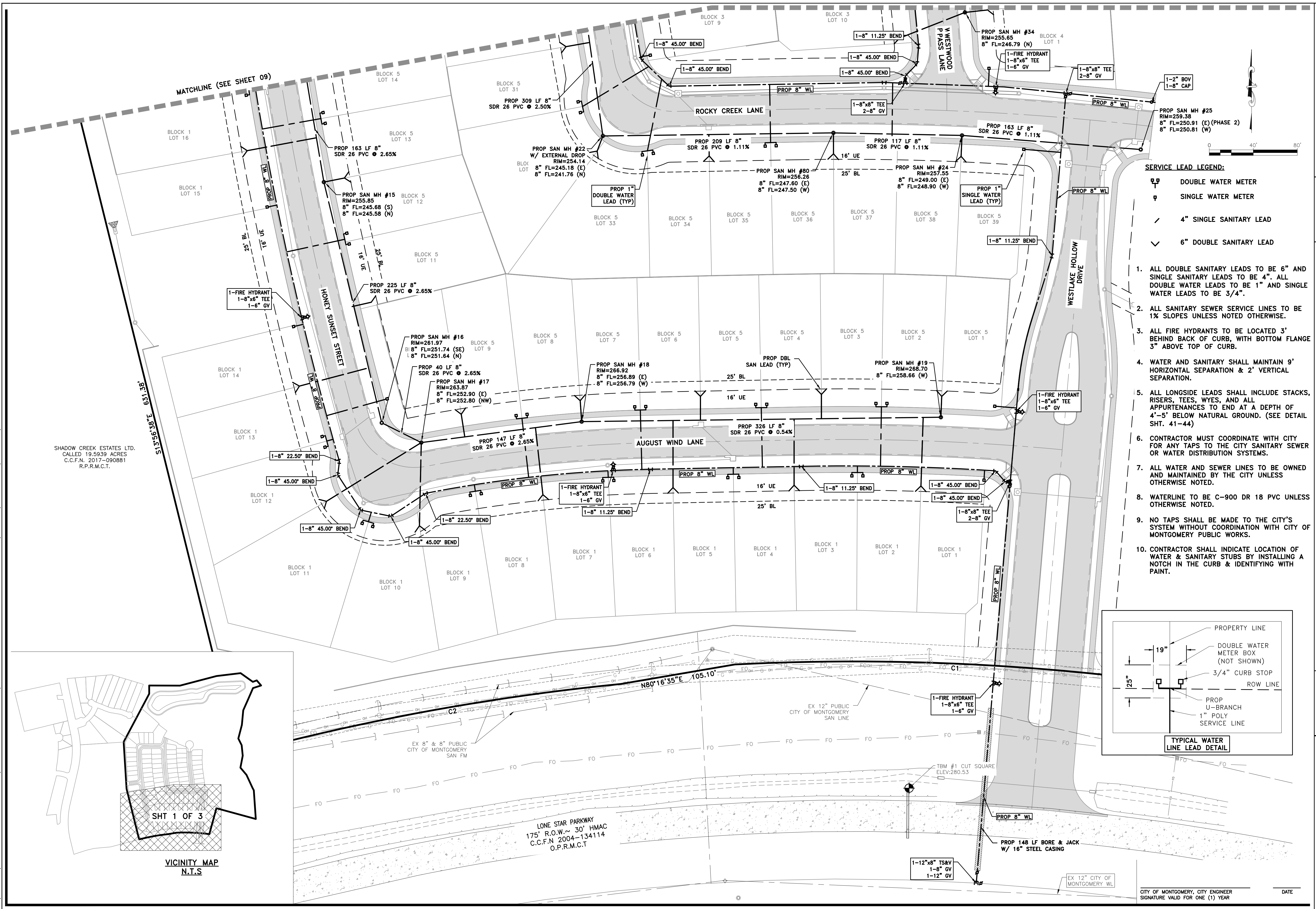
DRAWING INFORMATION			
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03/27/2025

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\06 WATER & SANITARY PLAN.DWG Mgr. 27, 2025-1:51 PM BRIAN STROKA



SHADOW CREEK ESTATES LTD.
CALLED 19.5939 ACRES
C.C.F.N. 2017-090881
R.P.R.M.C.T.

VICINITY MAP
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MATCHLINE (SEE SHEET 09)

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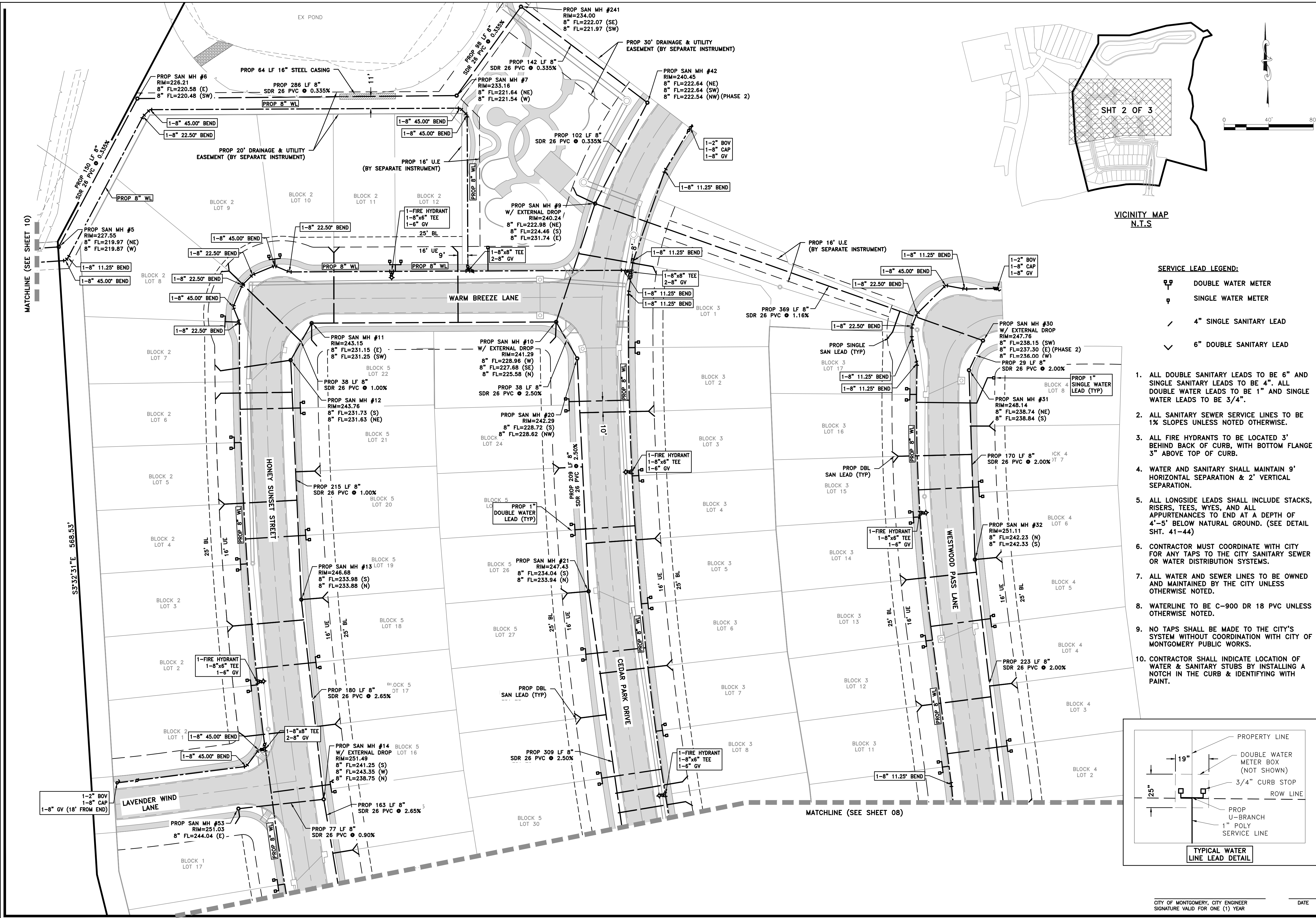
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L SQUARED ENGINEERING

MUNICIPAL COMMERCIAL RESIDENTIAL

WWW.L2ENGINEERING.COM

3307 W. DAVIS STREET #100

CONROE, TEXAS 77384

OFFICE: 281-447-0400

CLIENT INFORMATION

TAYLOR MORRISON

RICHARD BAUTISTA

3250 BRIARPARK DR #300

HOUSTON, TX 77062

PROJECT ADDRESS

LONESTAR PARKWAY

MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1

WATER, SEWER, DRAINAGE & PAVING

ON BEHALF OF MC MUC 179

WATER & SANITARY PLAN 2 OF 3

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 40' (24x36)	SHEET	09
	1" = 80' (11x17)		

STATE OF TEXAS

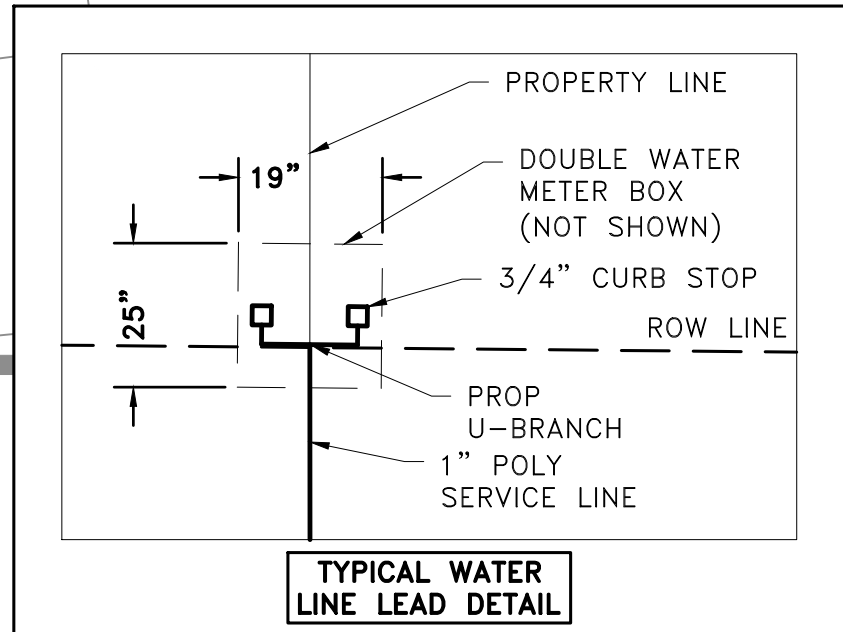
JONATHAN T. WHITE

127058

LICENSED PROFESSIONAL ENGINEER

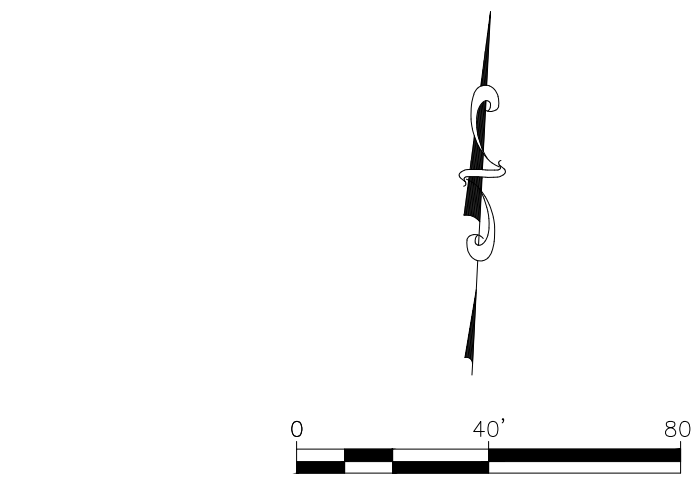
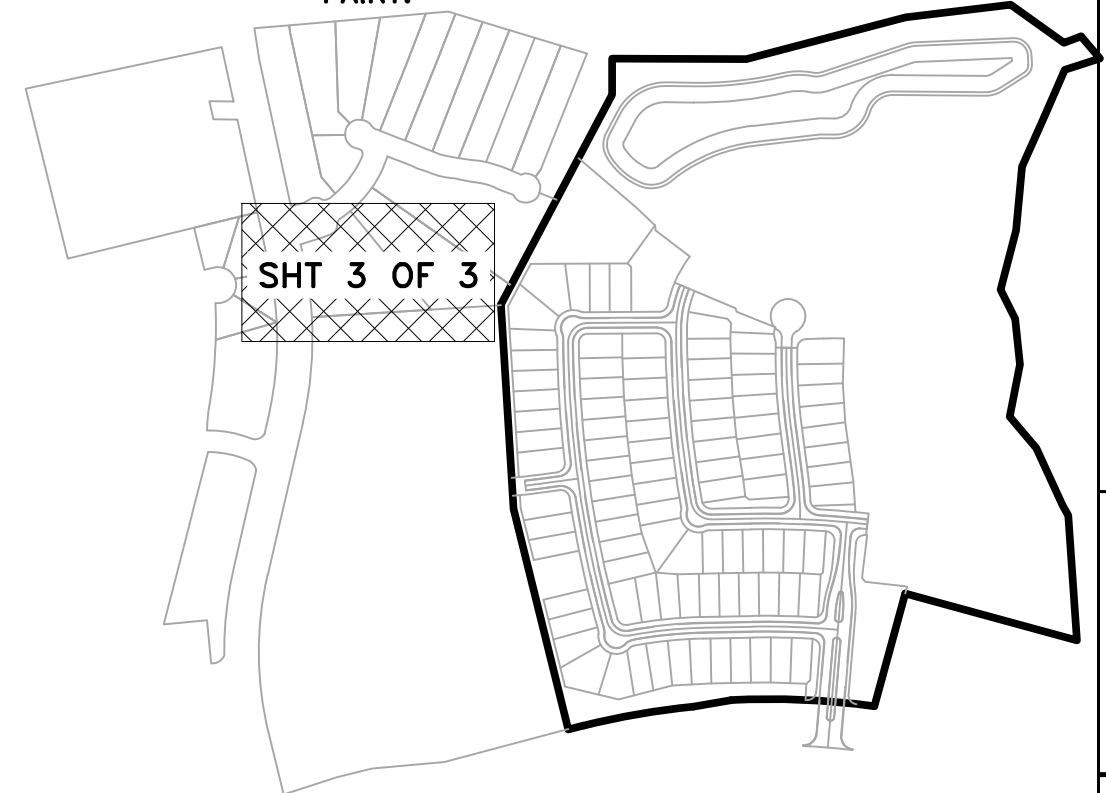
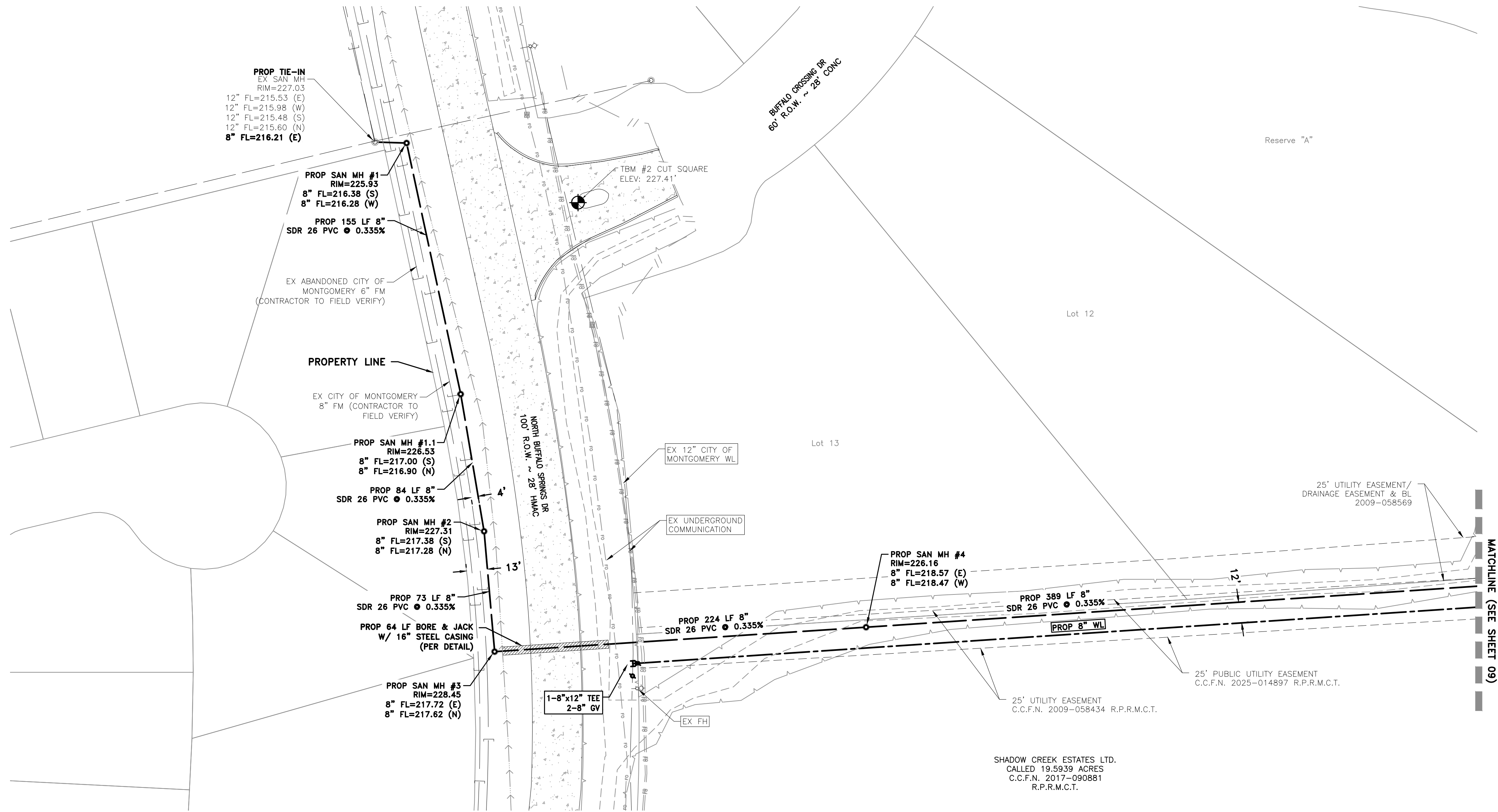
03/27/2025

- SERVICE LEAD LEGEND:**
- DOUBLE WATER METER
 - SINGLE WATER METER
 - 4" SINGLE SANITARY LEAD
 - 6" DOUBLE SANITARY LEAD
- ALL DOUBLE SANITARY LEADS TO BE 6" AND SINGLE SANITARY LEADS TO BE 4". ALL DOUBLE WATER LEADS TO BE 1" AND SINGLE WATER LEADS TO BE 3/4".
 - ALL SANITARY SEWER SERVICE LINES TO BE 1% SLOPES UNLESS NOTED OTHERWISE.
 - ALL FIRE HYDRANTS TO BE LOCATED 3' BEHIND BACK OF CURB, WITH BOTTOM FLANGE 3" ABOVE TOP OF CURB.
 - WATER AND SANITARY SHALL MAINTAIN 9" HORIZONTAL SEPARATION & 2' VERTICAL SEPARATION.
 - ALL LONGSIDE LEADS SHALL INCLUDE STACKS, RISERS, TEES, WYES, AND ALL APPURTENANCES TO END AT A DEPTH OF 4'-5' BELOW NATURAL GROUND. (SEE DETAIL SHT. 41-44)
 - CONTRACTOR MUST COORDINATE WITH CITY FOR ANY TAPS TO THE CITY SANITARY SEWER OR WATER DISTRIBUTION SYSTEMS.
 - ALL WATER AND SEWER LINES TO BE OWNED AND MAINTAINED BY THE CITY UNLESS OTHERWISE NOTED.
 - WATERLINE TO BE C-900 DR 18 PVC UNLESS OTHERWISE NOTED.
 - NO TAPS SHALL BE MADE TO THE CITY'S SYSTEM WITHOUT COORDINATION WITH CITY OF MONTGOMERY PUBLIC WORKS.
 - CONTRACTOR SHALL INDICATE LOCATION OF WATER & SANITARY STUBS BY INSTALLING A NOTCH IN THE CURB & IDENTIFYING WITH PAINT.



CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR
DATE

L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\06 WATER & SANITARY PLAN.DWG Mgr. 27, 2025-1:51 PM BRIAN STROKA



SERVICE LEAD LEGEND:

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- SINGLE WATER METER
- 4" SINGLE SANITARY LEAD
- 6" DOUBLE SANITARY LEAD

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MUNICIPAL COMMERCIAL RESIDENTIAL
WWW.LZENGINERING.COM
PRO REGISTRATION NUMBER 13125
3307 W. DAVIS STREET #100
CONROE, TEXAS 77384
OFFICE: 281-447-0402

CLIENT INFORMATION
TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77042
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
WATER & SANITARY PLAN 3 OF 3

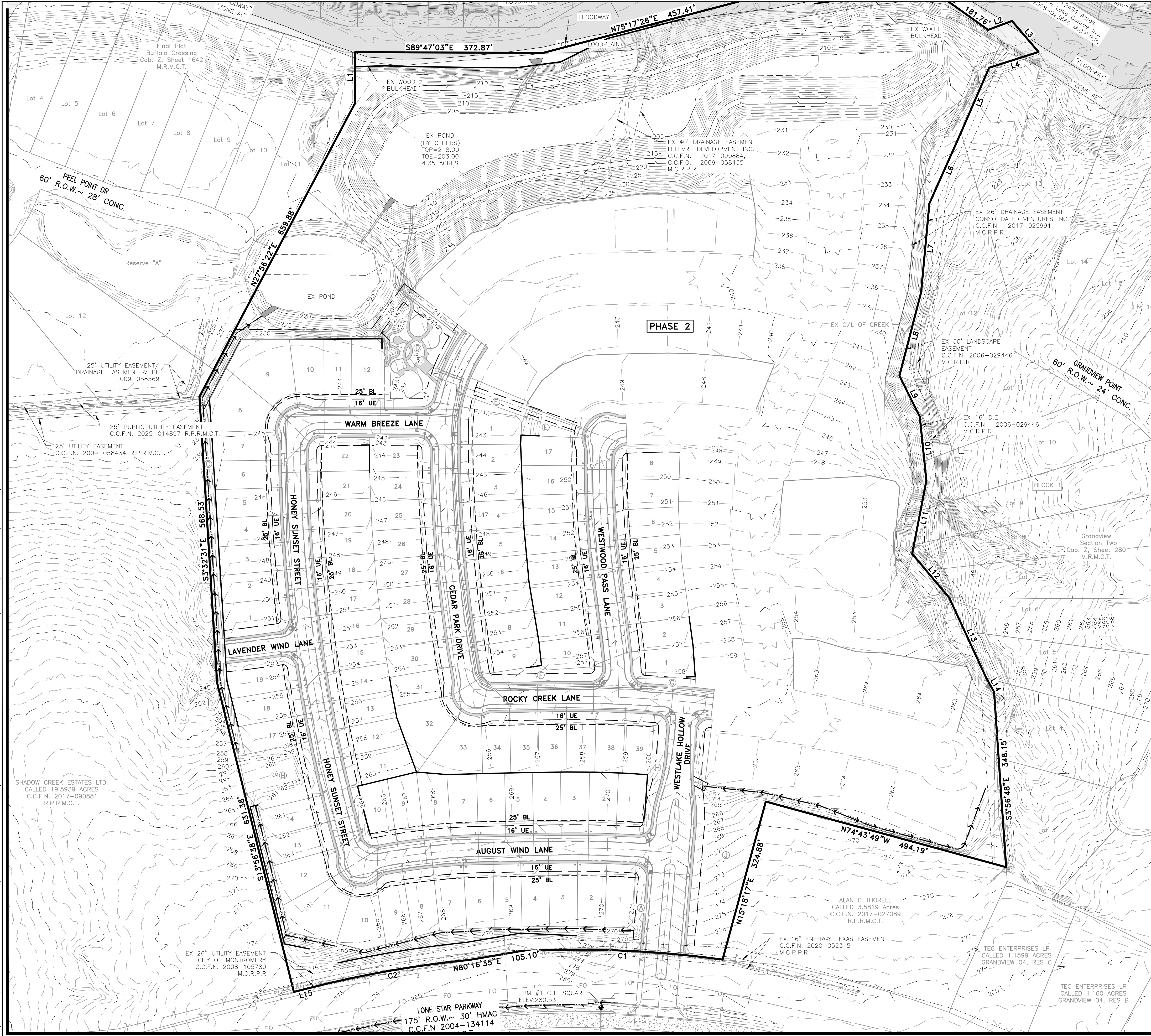
DRAWING ISSUE				
#	DATE	BY	* COMMENT	
0	03/27/25	JTW	FOR PERMIT	

DRAWING INFORMATION				
PROJECT	10979	TDLR	**	
DRAWN	BS	REVIEWED BY	JTW	
SCALE	SHEET			
1" = 40' (24x36)	10			
1" = 80' (11x17)				

JONATHAN T. WHITE
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03/27/2025

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L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\07 OVERALL GRADING PLAN.DWG Mar. 27, 2025-1:52 PM BRIAN STROKA



EXISTING GRADING IS FROM
"LONE STAR RIDGE MASS
GRADING" PLAN SET.

CITY OF MONTGOMERY, CITY ENGINEER
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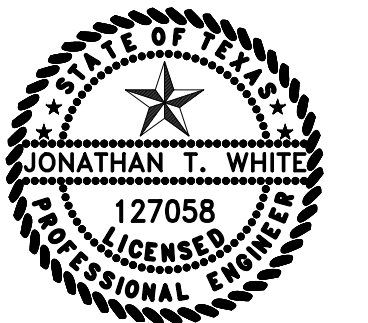
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LONE STAR RIDGE PHASE 1 WATER, SEWER, DRAINAGE & PAVING ON BEHALF OF MC MUC 179 OVERALL GRADING PLAN

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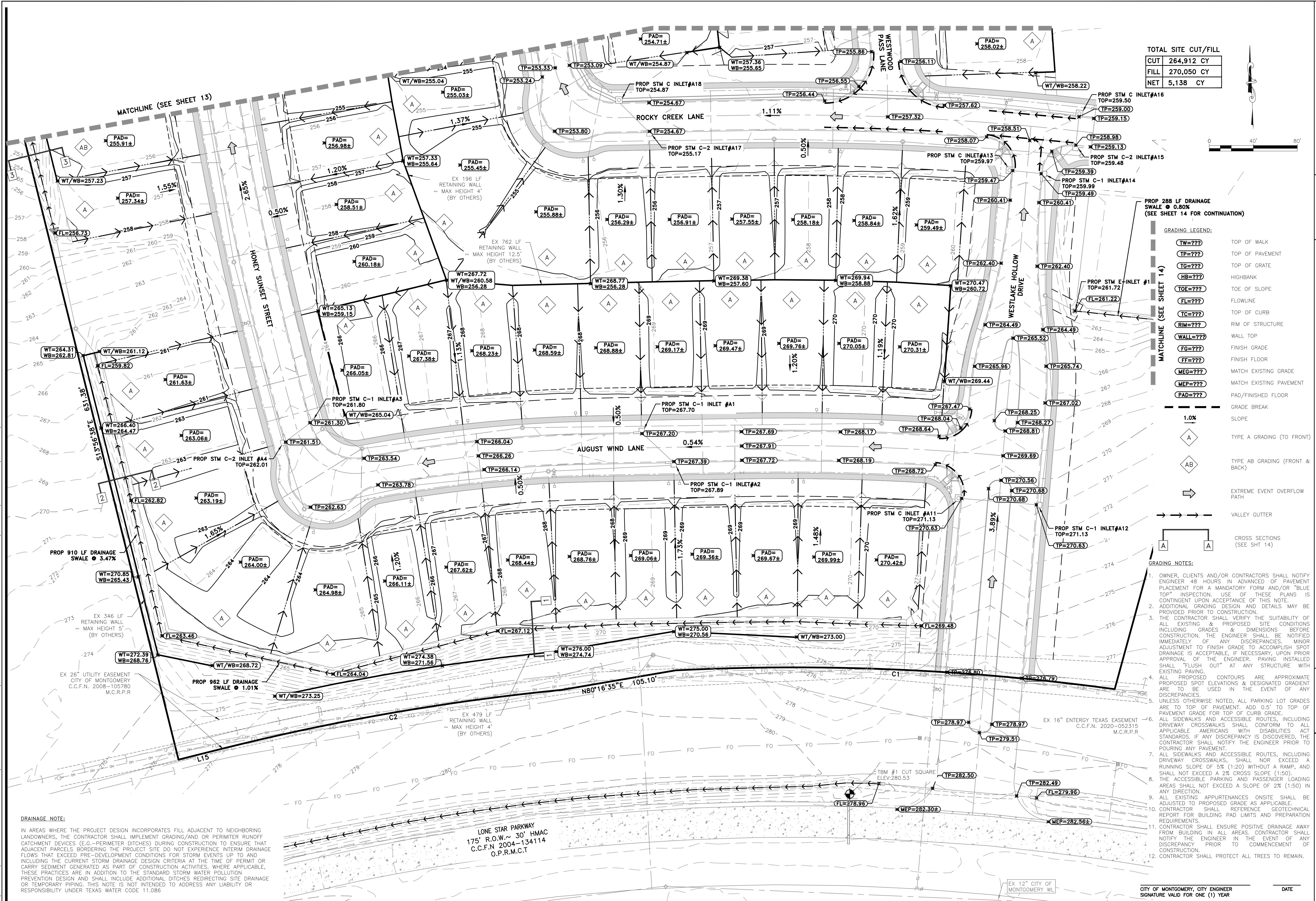
DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	SHEET		
1" = 100' (24x36)	11		
1" = 200' (11x17)			



03/27/2025

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L:\SHARED\12 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\07 OVERALL GRADING PLAN.DWG Mar. 27, 2025-1:52 PM BRIAN STROKA



TOTAL SITE CUT/FILL

CUT	264,912 CY
FILL	270,050 CY
NET	5,138 CY

- GRADING LEGEND:
- TP=??? TOP OF WALK
 - TP=??? TOP OF PAVEMENT
 - TG=??? TOP OF GRATE
 - HB=??? HIGHBANK
 - TOE=??? TOE OF SLOPE
 - FL=??? FLOWLINE
 - TC=??? TOP OF CURB
 - RIM=??? RIM OF STRUCTURE
 - WALL=??? WALL TOP
 - FG=??? FINISH GRADE
 - FF=??? FINISH FLOOR
 - MEG=??? MATCH EXISTING GRADE
 - MEP=??? MATCH EXISTING PAVEMENT
 - PAD=??? PAD/FINISHED FLOOR
 - GRADE BREAK
 - 1.0% SLOPE
 - A TYPE A GRADING (TO FRONT)
 - AB TYPE AB GRADING (FRONT & BACK)
 - EXTREME EVENT OVERFLOW PATH
 - VALLEY GUTTER
 - CROSS SECTIONS (SEE SHT 14)
- GRADING NOTES:
- OWNER, CLIENTS AND/OR CONTRACTORS SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF PAVEMENT PLACEMENT FOR A MANDATORY FORM AND/OR "BLUE TOP" INSPECTION. USE OF THESE PLANS IS CONTINGENT UPON ACCEPTANCE OF THIS NOTE.
 - ADDITIONAL GRADING DESIGN AND DETAILS MAY BE PROVIDED PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING & PROPOSED SITE CONDITIONS INCLUDING GRADES & DIMENSIONS BEFORE CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENT TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE IS ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF THE ENGINEER. PAVING INSTALLED SHALL "FLUSH OUT" AT ANY STRUCTURE WITH EXISTING PAVING.
 - ALL PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS & DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
 - UNLESS OTHERWISE NOTED, ALL PARKING LOT GRADES ARE TO TOP OF PAVEMENT. ADD 0.5' TO TOP OF PAVEMENT GRADE FOR TOP OF CURB GRADE.
 - ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS, SHALL CONFORM TO ALL APPLICABLE AMERICANS WITH DISABILITIES ACT STANDARDS. IF ANY DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO POURING ANY PAVEMENT.
 - ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS, SHALL NOT EXCEED A RUNNING SLOPE OF 5% (1:20) WITHOUT A RAMP, AND SHALL NOT EXCEED A 2% CROSS SLOPE (1:50).
 - THE ACCESSIBLE PARKING AND PASSENGER LOADING AREAS SHALL NOT EXCEED A SLOPE OF 2% (1:50) IN ANY DIRECTION.
 - ALL EXISTING APPURTENANCES ON SITE SHALL BE ADJUSTED TO PROPOSED GRADE AS APPLICABLE.
 - CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR BUILDING PAD LIMITS AND PREPARATION REQUIREMENTS.
 - CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS. CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF ANY DISCREPANCY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN.

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MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
GRADING PLAN 1 OF 2

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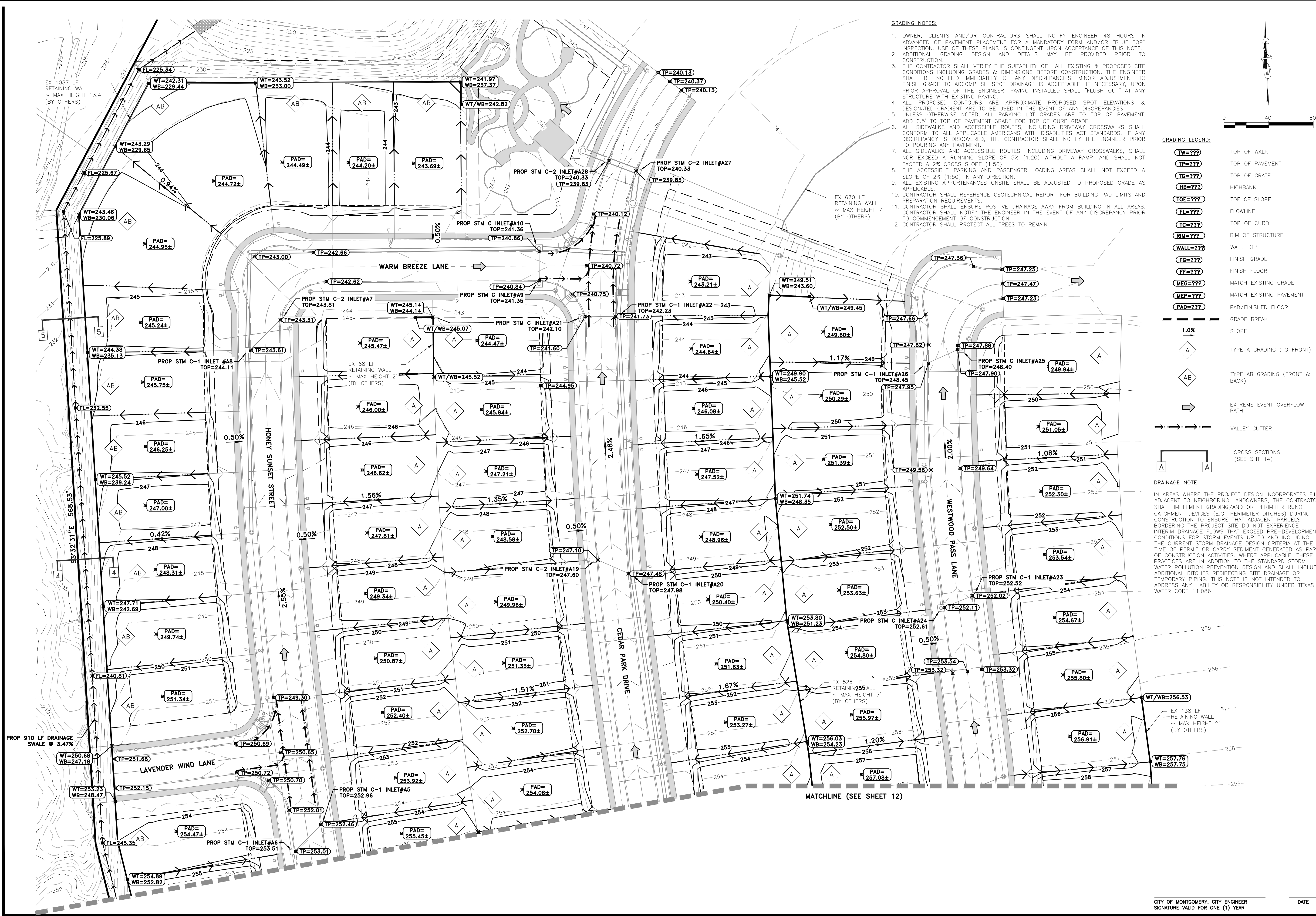
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DATE

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L:\SHARED\12-ENGINEERING\PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03-CAD\DESIGN SET\PHASE 1\07-OVERALL GRADING PLAN.DWG Mar. 27, 2025-1:52 PM BRIAN STROKA



GRADING NOTES:

1. OWNER, CLIENTS AND/OR CONTRACTORS SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF PAVEMENT PLACEMENT FOR A MANDATORY FORM AND/OR "BLUE TOP" INSPECTION. USE OF THESE PLANS IS CONTINGENT UPON ACCEPTANCE OF THIS NOTE.
2. ADDITIONAL GRADING DESIGN AND DETAILS MAY BE PROVIDED PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING & PROPOSED SITE CONDITIONS INCLUDING GRADES & DIMENSIONS BEFORE CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENT TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE IS ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF THE ENGINEER. PAVING INSTALLED SHALL "FLUSH OUT" AT ANY STRUCTURE WITH EXISTING PAVING.
4. ALL PROPOSED CONTOURS ARE APPROXIMATE PROPOSED SPOT ELEVATIONS & DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
5. UNLESS OTHERWISE NOTED, ALL PARKING LOT GRADES ARE TO TOP OF PAVEMENT. ADD 0.5' TO TOP OF PAVEMENT GRADE FOR TOP OF CURB GRADE.
6. ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS SHALL CONFORM TO ALL APPLICABLE AMERICANS WITH DISABILITIES ACT STANDARDS. IF ANY DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS, SHALL NOT EXCEED A RUNNING SLOPE OF 5% (1:20) WITHOUT A RAMP, AND SHALL NOT EXCEED A 2% CROSS SLOPE (1:50).
8. THE ACCESSIBLE PARKING AND PASSENGER LOADING AREAS SHALL NOT EXCEED A SLOPE OF 2% (1:50) IN ANY DIRECTION.
9. ALL EXISTING APPURTENANCES ON SITE SHALL BE ADJUSTED TO PROPOSED GRADE AS APPLICABLE.
10. CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR BUILDING PAD LIMITS AND PREPARATION REQUIREMENTS.
11. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS. CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF ANY DISCREPANCY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
12. CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN.

GRADING LEGEND:

- | | |
|------------|--------------------------------|
| (TW=???) | TOP OF WALK |
| (TP=???) | TOP OF PAVEMENT |
| (TG=???) | TOP OF GRATE |
| (HB=???) | HIGHBANK |
| (TOE=???) | TOE OF SLOPE |
| (FL=???) | FLOWLINE |
| (TC=???) | TOP OF CURB |
| (RIM=???) | RIM OF STRUCTURE |
| (WALL=???) | WALL TOP |
| (FG=???) | FINISH GRADE |
| (FF=???) | FINISH FLOOR |
| (MEG=???) | MATCH EXISTING GRADE |
| (MEP=???) | MATCH EXISTING PAVEMENT |
| (PAD=???) | PAD/FINISHED FLOOR |
| --- | GRADE BREAK |
| 1.0% | SLOPE |
| A | TYPE A GRADING (TO FRONT) |
| AB | TYPE AB GRADING (FRONT & BACK) |
| → | EXTREME EVENT OVERFLOW PATH |
| → | VALLEY GUTTER |
| A | CROSS SECTIONS (SEE SHT 14) |

DRAINAGE NOTE:

IN AREAS WHERE THE PROJECT DESIGN INCORPORATES FILL ADJACENT TO NEIGHBORING LANDOWNERS, THE CONTRACTOR SHALL IMPLEMENT GRADING/AND OR PERMITTER RUNOFF CATCHMENT DEVICES (E.G., PERIMETER DITCHES) DURING CONSTRUCTION TO ENSURE THAT ADJACENT PARCELS BORDERING THE PROJECT SITE DO NOT EXPERIENCE INTERIM DRAINAGE FLOWS THAT EXCEED PRE-DEVELOPMENT CONDITIONS FOR STORM EVENTS UP TO AND INCLUDING THE CURRENT STORM DRAINAGE DESIGN CRITERIA AT THE TIME OF PERMIT OR CARRY SEDIMENT GENERATED AS PART OF CONSTRUCTION ACTIVITIES, WHERE APPLICABLE, THESE PRACTICES ARE IN ADDITION TO THE STANDARD STORM WATER POLLUTION PREVENTION DESIGN AND SHALL INCLUDE ADDITIONAL DITCHES REDIRECTING SITE DRAINAGE OR TEMPORARY PIPING. THIS NOTE IS NOT INTENDED TO ADDRESS ANY LIABILITY OR RESPONSIBILITY UNDER TEXAS WATER CODE 11.086

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MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

GRADING PLAN 2 OF 2

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	SHEET		
1" = 40' (24x36)	13		
1" = 80' (11x17)			

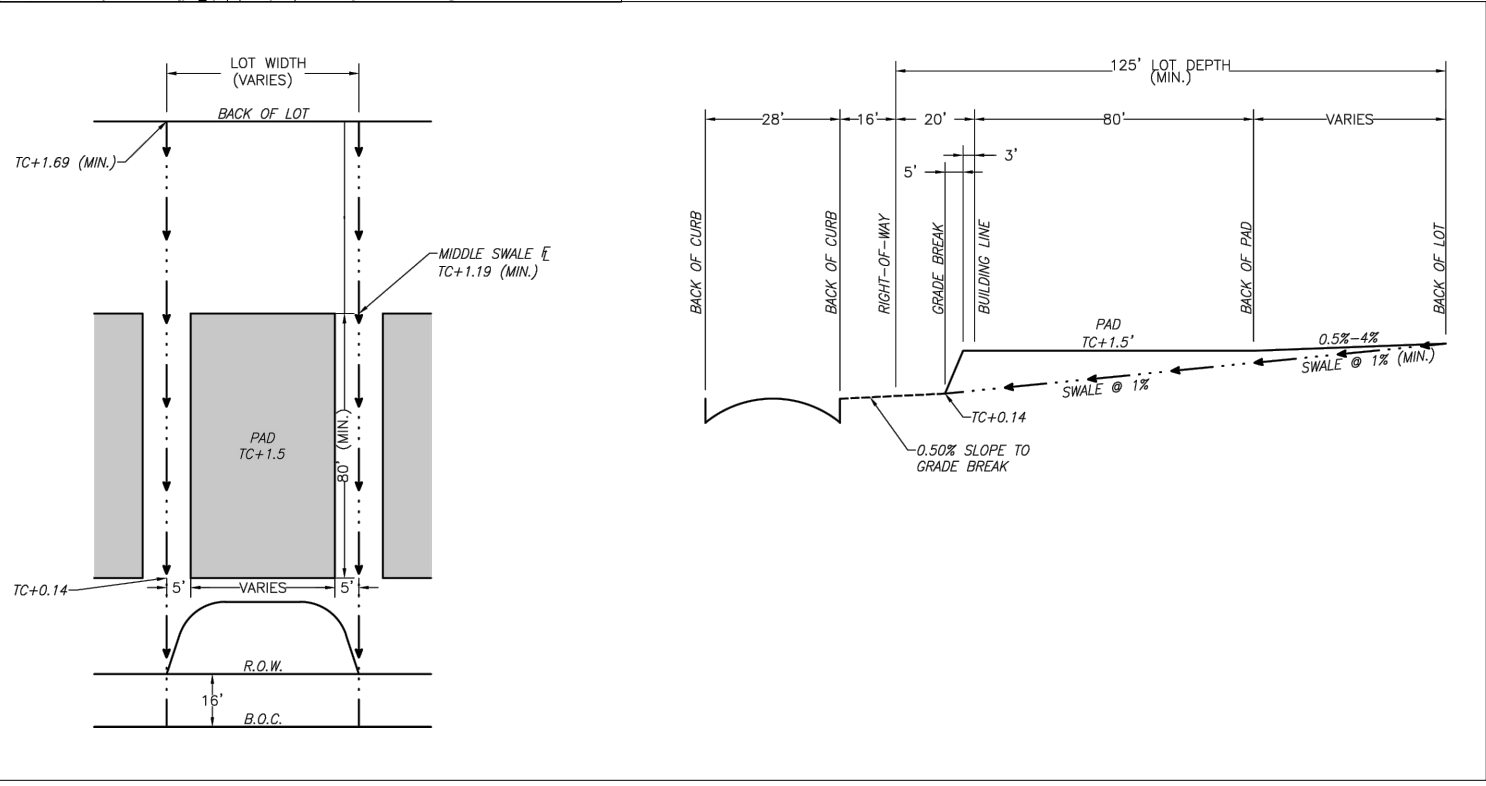
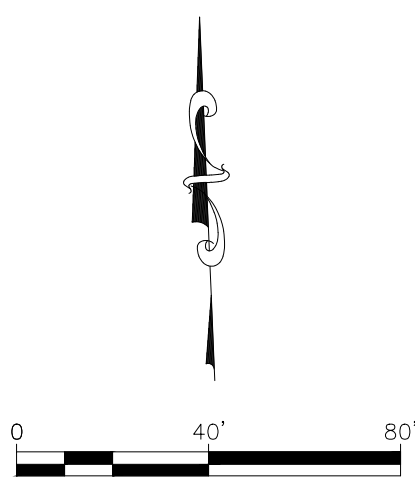
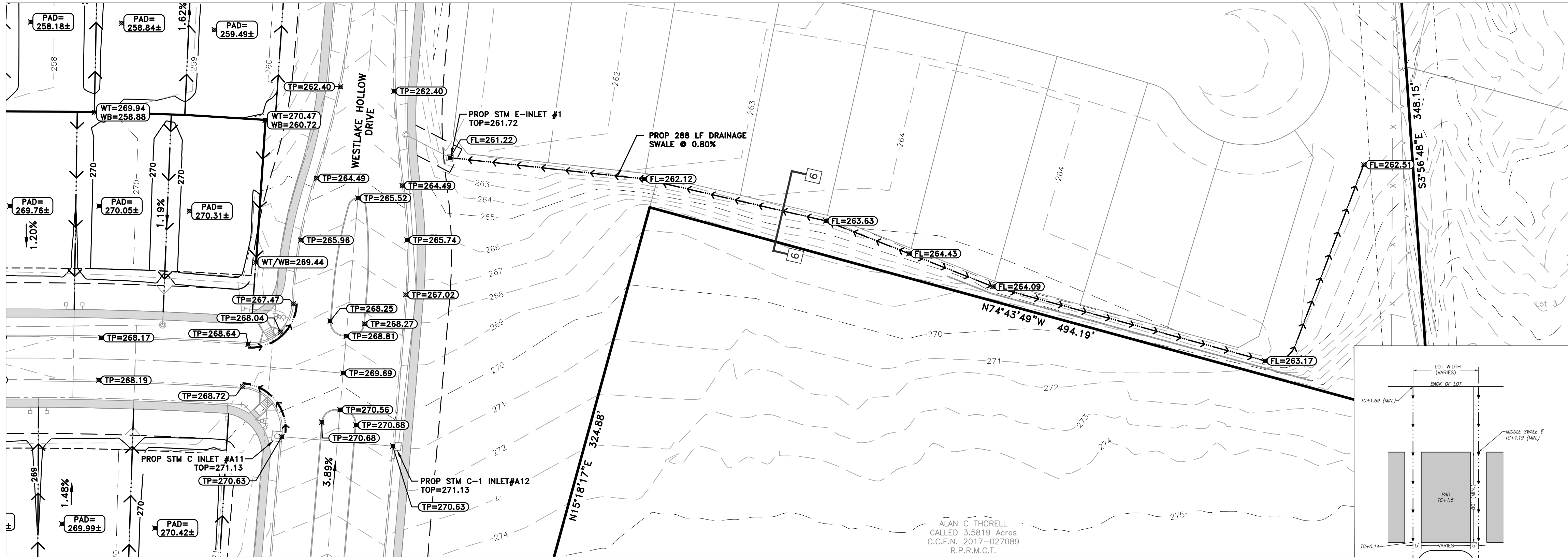
STATE OF TEXAS
JONATHAN T. WHITE
127058
LICENSED PROFESSIONAL ENGINEER
03/27/2025

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SIGNATURE VALID FOR ONE (1) YEAR

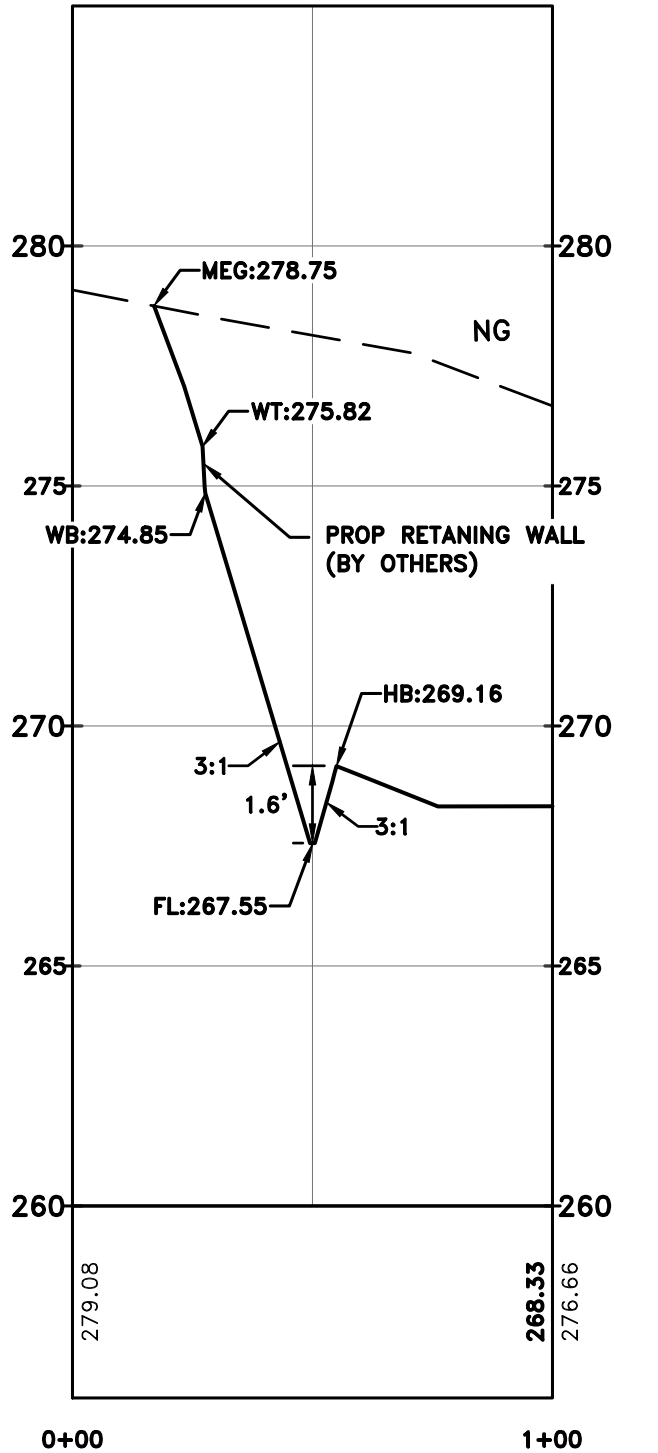
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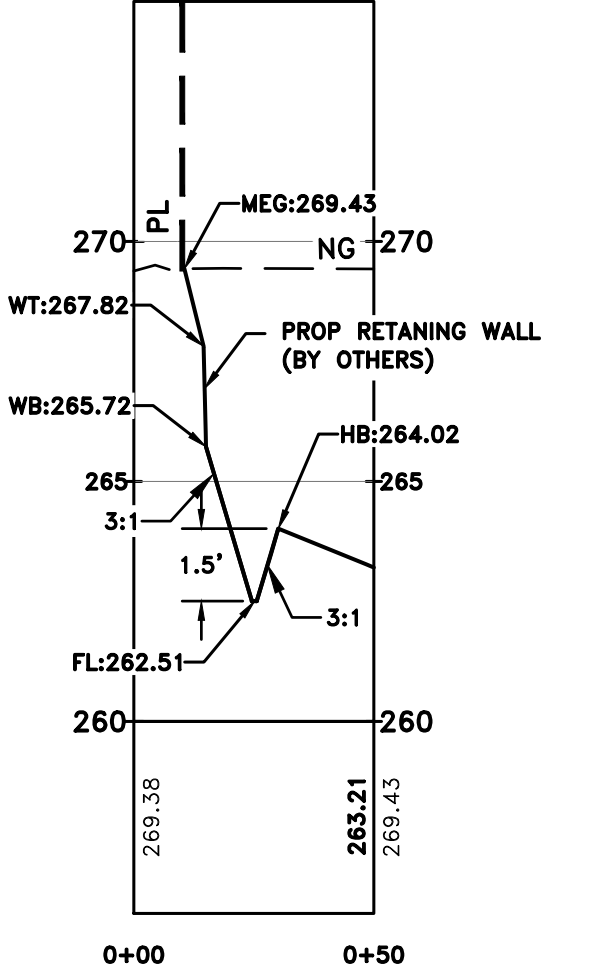
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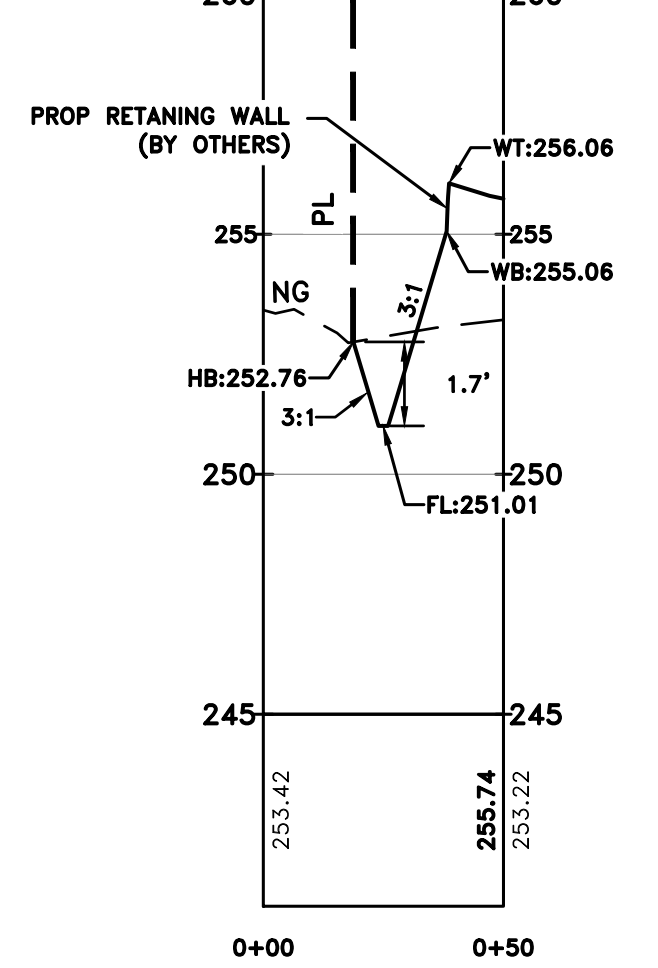
1-1 PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



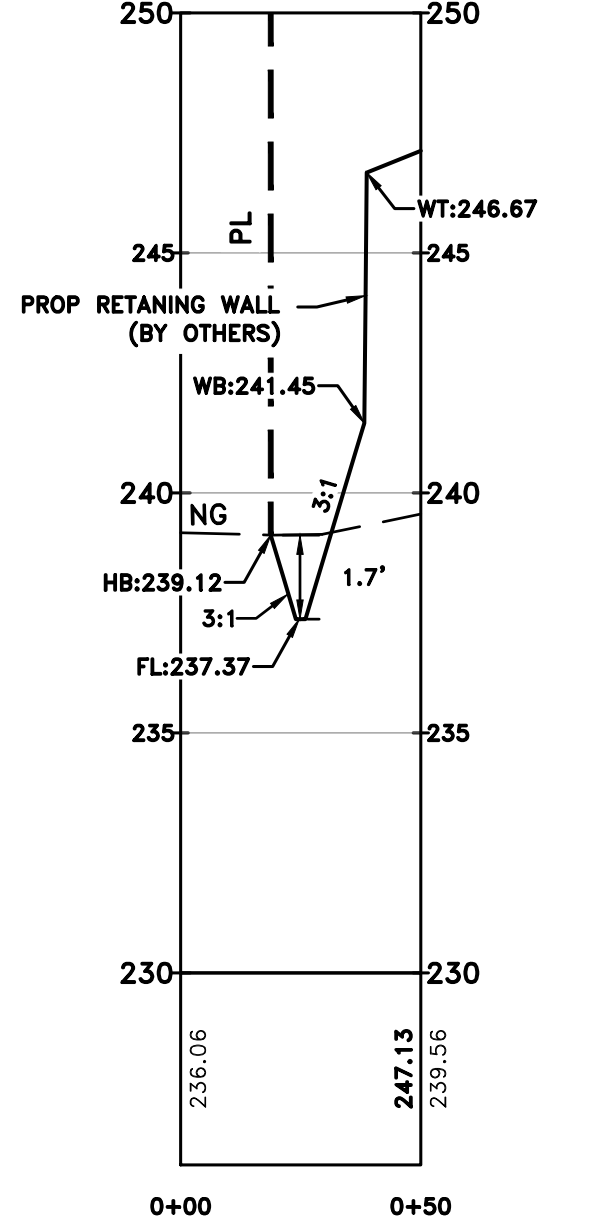
2-2 PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



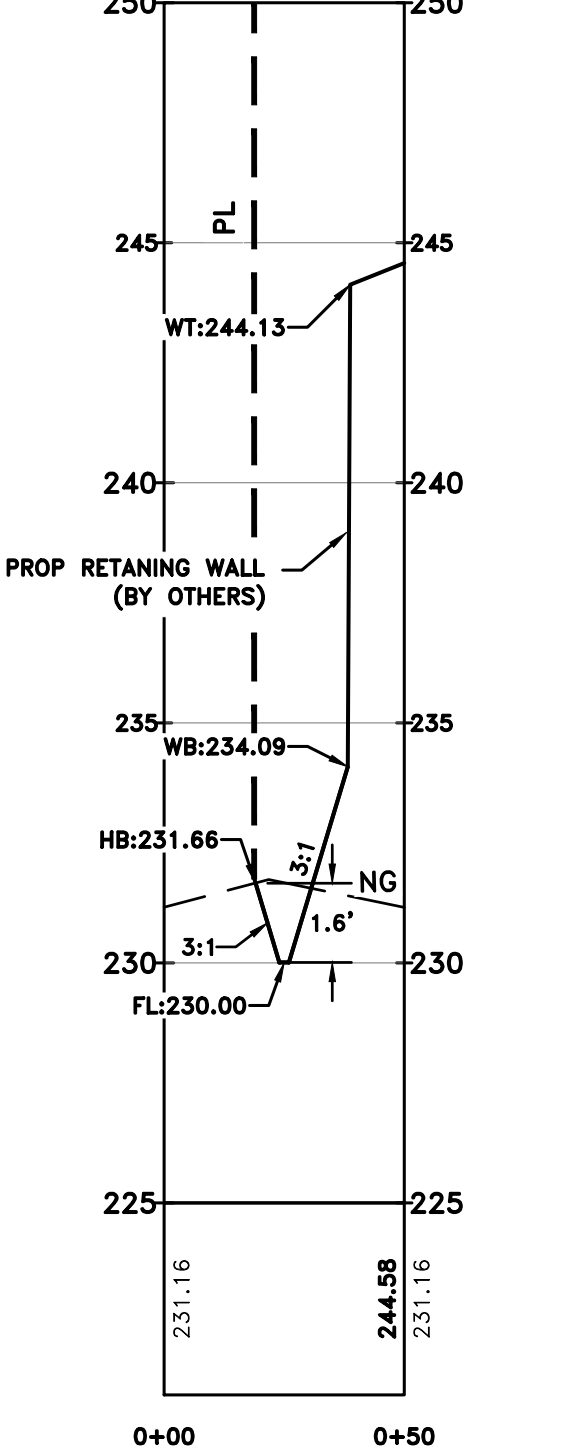
3-3 PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



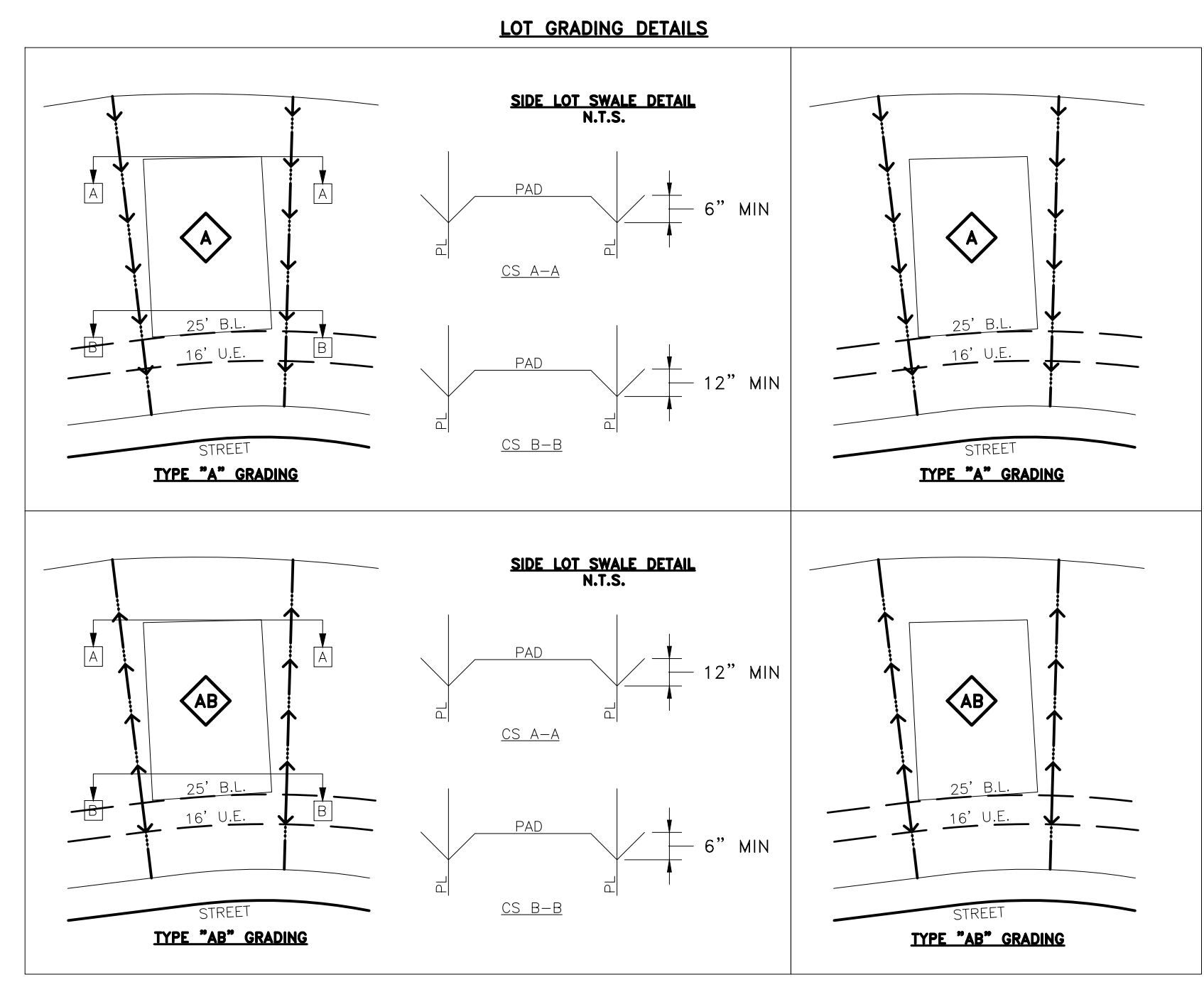
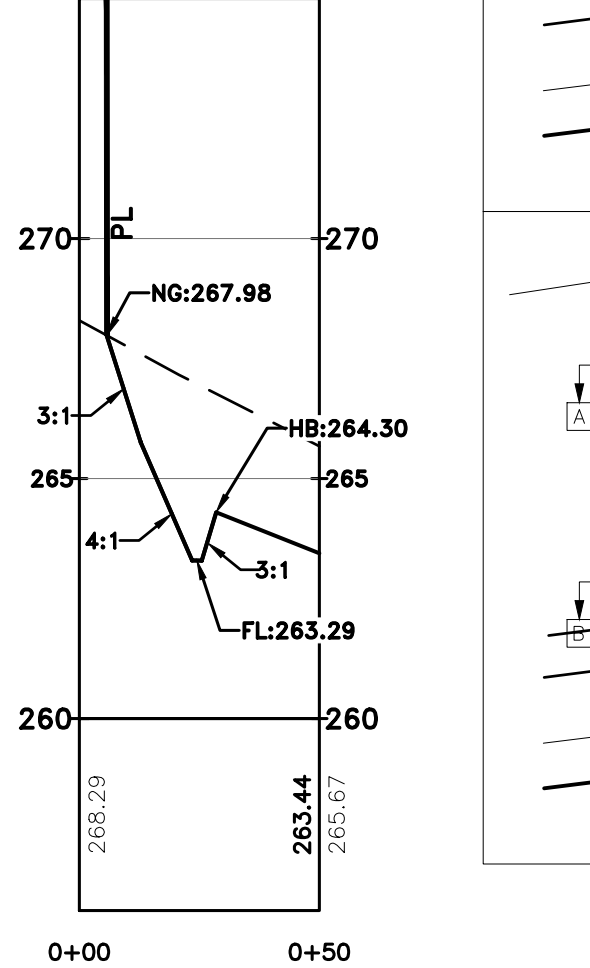
4-4 PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



5-5 PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



6-6 PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



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MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1 WATER, SEWER, DRAINAGE & PAVING ON BEHALF OF MC MUC 179

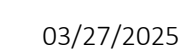
CROSS SECTIONS

DRAWING ISSUE				
#	DATE	BY	* COMMENT	
0	03/27/25	JTW	FOR PERMIT	

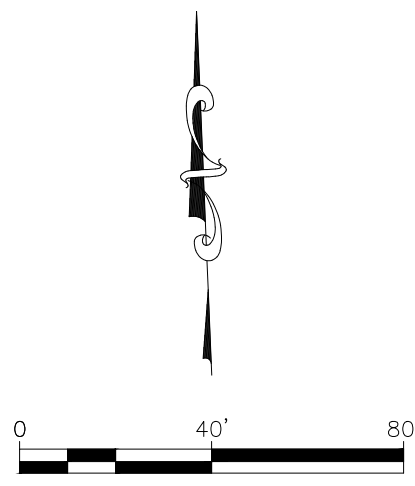
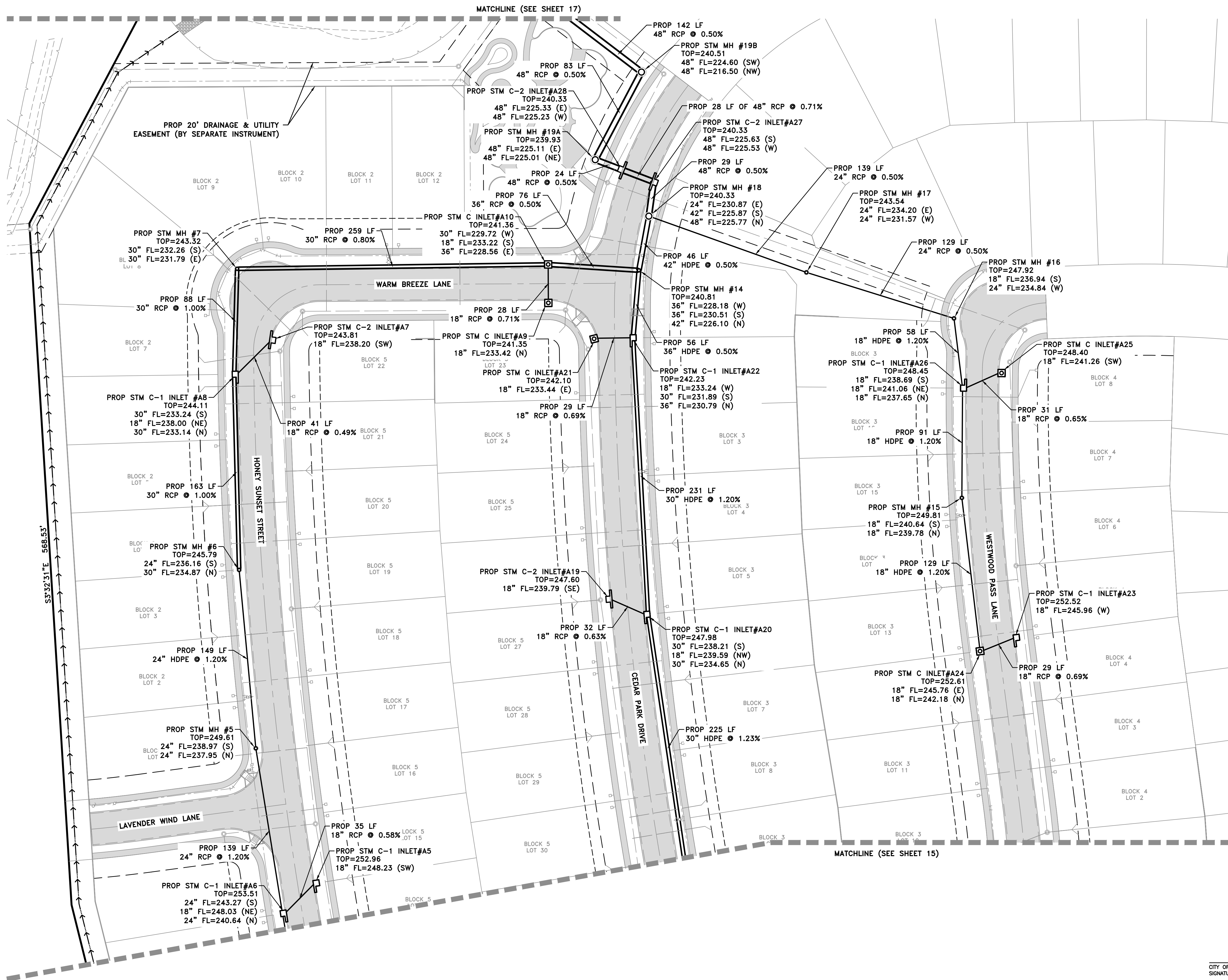
DRAWING INFORMATION				
PROJECT	10979	TDLR	**	
DRAWN	BS	REVIEWED BY	JTW	
SCALE	1" = 40' (24x36) 1" = 80' (11x17)	SHEET	14	

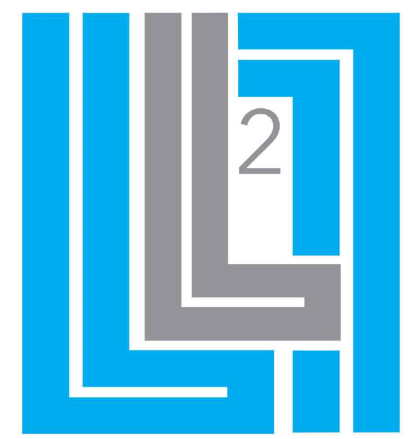
STATE OF TEXAS
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03/27/2025

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L:\SHARED\12 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\08 STORM SEWER PLANDWG Mgr. 27, 2025-1:53 PM BRIAN STROKA





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LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

STORM SEWER PLAN 2 OF 3

DRAWING ISSUE			
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DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 40' (24x36) 1" = 80' (11x17)	SHEET	16



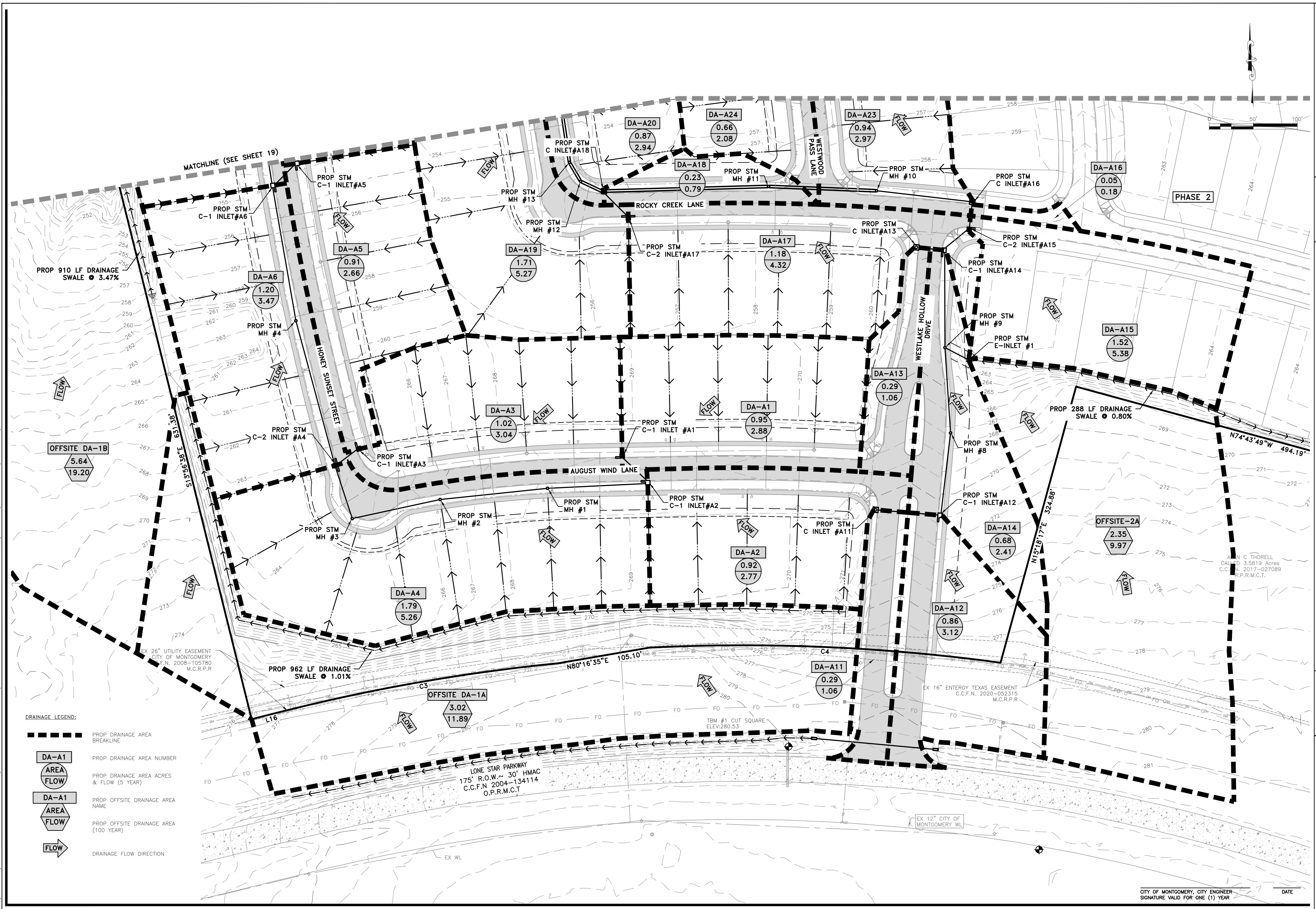
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L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\12 DRAINAGE PLAN.DWG Mgr. 27, 2025-1:54 PM BRIAN STROKA



DRAINAGE LEGEND:

- PROP DRAINAGE AREA BREAKLINE
- DA-A1
AREA
FLOW
PROP DRAINAGE AREA NUMBER
PROP DRAINAGE AREA ACRES & FLOW (5 YEAR)
- DA-A1
AREA
FLOW
PROP OFFSITE DRAINAGE AREA NAME
PROP OFFSITE DRAINAGE AREA (100 YEAR)
- FLOW
DRAINAGE FLOW DIRECTION



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DRAINAGE PLAN 1 OF 2

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DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 50' (24x36) 1" = 100' (11x17)	SHEET	18



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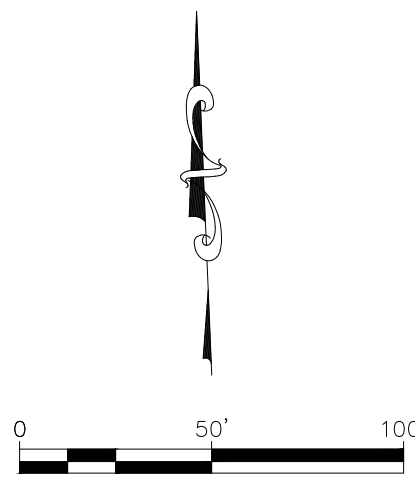
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- DRAINAGE LEGEND:**
- PROP DRAINAGE AREA BREAKLINE
 - DA-A1 AREA FLOW PROP DRAINAGE AREA NUMBER & FLOW (5 YEAR)
 - DA-A1 AREA FLOW PROP OFFSITE DRAINAGE AREA NAME
 - PROP OFFSITE DRAINAGE AREA (100 YEAR)
 - FLOW DRAINAGE FLOW DIRECTION

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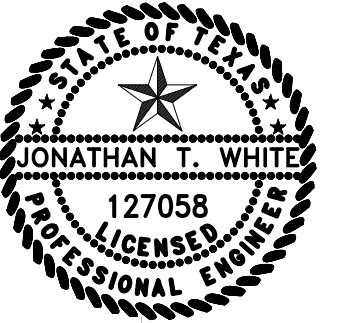
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LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

DRAINAGE PLAN 2 OF 2

DRAWING ISSUE			
#	DATE	BY	* COMMENT
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DRAWING INFORMATION			
PROJECT	10979	TDLR	**
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SCALE	SHEET		
1" = 50' (24x36)	19		
1" = 100' (11x17)			



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Inlet Info																									HGL			
Inlet/MH From	Inlet/MH To	Drainage Area	Total Drainage Area	Runoff Co. "C"	DA C*A	Total C*A	Drainage Area Time of Conc. (Min)	Total Time of Conc. (Min)	Intensity (I)	Cf	Drainage Area Flow (cfs)	Total Flow (cfs)	Number of Barrels	Culvert Size (ft)	Slope	Area (A)	Perimeter (P)	R=(A/P)	Length (ft)	Roughness (n)	Q _{capacity} (CFS)	V _{full flow} (FPS)	Upstream FL	Downstream FL	Change In Head (ft)	Hydraulic Gradeline %	Elevation of Hyd. Grad. Upstream (ft)	Elevation of Hyd. Grad. Downstream(ft)
INLET A1	INLET A2	0.95	0.95	0.55	0.52	0.52	16.17	16.17	5.50	1.00	2.88	2.88	1	1.5	0.005	1.77	4.71	0.375	40	0.013	7.43	4.20	263.27	263.07	0.03	0.07	264.60	264.57
INLET A2	MH #1	0.92	1.87	0.55	0.51	1.03	15.85	16.33	5.48	1.00	2.77	5.64	1	1.5	0.007	1.77	4.71	0.375	114	0.012	9.71	5.49	257.76	256.93	0.28	0.25	258.71	258.43
MH #1	MH #2	0.00	1.87	0.55	0.00	1.03	0.00	16.68	5.43	1.00	0.00	5.58	1	1.5	0.007	1.77	4.71	0.375	123	0.012	9.73	5.51	256.83	255.93	0.30	0.24	257.73	257.43
MH #2	MH #3	0.00	1.87	0.55	0.00	1.03	0.00	17.05	5.38	1.00	0.00	5.53	1	1.5	0.012	1.77	4.71	0.375	102	0.013	11.53	6.53	253.73	252.50	0.28	0.28	254.28	254.00
INLET A3	INLET A4	1.02	1.02	0.55	0.56	0.56	16.73	16.73	5.42	1.00	3.04	3.04	1	1.5	0.007	1.77	4.71	0.375	30	0.013	8.57	4.85	257.08	256.88	0.03	0.08	258.41	258.38
MH #3	INLET A4	0.00	1.87	0.55	0.00	1.03	0.00	17.31	5.34	1.00	0.00	5.49	1	1.5	0.012	1.77	4.71	0.375	63	0.013	11.53	6.53	251.40	250.64	0.17	0.27	252.31	252.14
INLET A4	MH #4	1.79	4.68	0.55	0.98	2.57	17.61	17.47	5.32	1.00	5.24	13.69	1	2	0.012	3.14	6.28	0.500	170	0.012	26.84	8.54	250.55	248.51	0.53	0.31	251.04	250.51
INLET A5	INLET A6	0.91	0.91	0.55	0.50	0.50	15.00	17.64	5.29	1.00	2.65	2.65	1	1.5	0.006	1.77	4.71	0.375	35	0.013	7.94	4.49	248.23	248.03	0.02	0.06	249.55	249.53
MH #4	INLET A6	0.00	4.68	0.55	0.00	2.57	0.00	17.95	5.25	1.00	0.00	13.52	1	2	0.012	3.14	6.28	0.500	156	0.012	26.83	8.54	245.14	243.27	0.48	0.30	245.75	245.27
INLET A6	MH #5	1.20	6.79	0.55	0.66	3.73	15.38	18.24	5.21	1.00	3.44	19.47	1	2	0.012	3.14	6.28	0.500	139	0.013	24.79	7.89	240.64	238.97	1.03	0.74	242.00	240.97
MH #5	MH #6	0.00	6.79	0.55	0.00	3.73	0.00	18.53	5.18	1.00	0.00	19.33	1	2	0.012	3.14	6.28	0.500	149	0.012	26.86	8.55	237.95	236.16	0.93	0.62	240.51	239.58
INLET A7	INLET A8	1.55	1.55	0.55	0.85	0.85	16.34	16.34	5.48	1.00	4.67	4.67	1	1.5	0.005	1.77	4.71	0.375	41	0.013	7.33	4.15	238.20	238.00	0.08	0.20	239.58	239.50
MH #6	INLET A8	0.00	6.79	0.55	0.00	3.73	0.00	18.86	5.14	1.00	0.00	19.18	1	2.5	0.010	4.91	7.85	0.625	163	0.013	41.01	8.35	234.87	233.24	0.36	0.22	236.10	235.74
INLET A8	MH #7	0.87	9.21	0.55	0.48	5.07	16.62	19.03	5.11	1.00	2.45	25.90	1	2.5	0.010	4.91	7.85	0.625	88	0.013	41.01	8.35	233.14	232.26	0.35	0.40	235.11	234.76
INLET A9	INLET A10	0.20	0.20	0.55	0.11	0.11	2.89	10.00	6.66	1.00	0.73	0.73	1	1.5	0.007	1.77	4.71	0.375	28	0.013	8.87	5.02	233.42	233.22	0.00	0.00	234.72	234.72
MH #7	INLET A10	0.00	9.21	0.55	0.00	5.07	0.00	19.61	5.04	1.00	0.00	25.54	1	2.5	0.008	4.91	7.85	0.625	259	0.013	36.66	7.47	231.79	229.72	1.00	0.39	233.22	232.22
INLET A10	MH #14	0.41	9.82	0.55	0.23	5.40	11.04	19.80	5.02	1.00	1.13	27.10	1	3	0.005	7.07	9.42	0.750	76	0.013	47.16	6.67	228.56	228.18	0.13	0.16	231.31	231.18
INLET A11	INLET A12	0.29	0.29	0.55	0.16	0.16	1.44	10.00	6.66	1.00	1.06	1.06	1	1.5	0.005	1.77	4.71	0.375	70	0.013	7.43	4.20	266.98	266.63	0.01	0.01	268.14	268.13
INLET A12	MH #8	0.86	1.15	0.55	0.47	0.63	1.85	10.28	6.59	1.00	3.12	4.17	1	1.5	0.012	1.77	4.71	0.375	94	0.012	12.47	7.06	263.10	261.97	0.13	0.13	263.60	263.47
E-INLET #1	MH #9	2.35	2.35	0.40	0.94	0.94	15.11	15.11	5.62	1.00	5.28	5.28	1	2	0.005	3.14	6.28	0.500	30	0.012	17.33	5.51	256.60	256.45	0.01	0.05	258.46	258.45
MH #8	MH #9	0.00	1.15	0.55	0.00	0.63	0.00	10.50	6.54	1.00	0.00	4.14	1	1.5	0.012	1.77	4.71	0.375	97	0.012	12.44	7.04	259.36	258.20	0.13	0.13	259.83	259.70
INLET A13	INLET A14	0.29	0.29	0.55	0.16	0.16	1.54	10.00	6.66	1.00	1.06	1.06	1	1.5	0.007	1.77	4.71	0.375	28	0.013	8.87	5.02	255.89	255.69	0.00	0.01	257.19	257.19
MH #9	INLET A14	0.00	3.79	0.55	0.00	2.08	0.00	10.73	6.49	1.00	0.00	13.52	1	2	0.012	3.14	6.28	0.500	110	0.012	26.94	8.58	255.24	253.91	0.33	0.30	256.24	255.91
INLET A14	INLET A15	0.68	4.47	0.55	0.37	2.46	7.95	10.94	6.44	1.00	2.41	15.83	1	2	0.012	3.14	6.28	0.500	39	0.012	26.90	8.56	252.80	252.33	0.16	0.42	254.49	254.33
INLET A15	INLET A16	1.52	5.99	0.55	0.84	3.29	4.91	11.02	6.42	1.00	5.37	21.16	1	2	0.013	3.14	6.28	0.500	28	0.013	26.00	8.28	251.54	251.17	0.25	0.87	253.42	253.17
INLET A16	MH #10	0.05	6.04	0.55	0.03	3.32	1.15	11.08	6.41	1.00	0.18	21.30	1	2	0.012	3.14	6.28	0.500	109	0.012	26.86	8.55	249.87	248.56	0.82	0.75	251.38	250.56
MH #10	MH #11	0.00	6.04	0.55	0.00	3.32	0.00	11.29	6.37	1.00	0.00	21.15	1	2.5	0.012	4.91	7.85	0.625	123	0.013	44.83	9.13	248.24	246.77	0.33	0.26	249.60	249.27
INLET A17	INLET A18	1.18	1.18	0.55	0.65	0.65	2.42	10.00	6.66	1.00	4.32	4.32	1	1.5	0.005	1.77	4.71	0.375	39	0.013	7.52	4.26	250.57	250.37	0.07	0.17	251.94	251.87
MH #11	INLET A18	0.00	6.04	0.55	0.00	3.32	0.00	11.51	6.32	1.00	0.00	20.99	1	2.5	0.012	4.91	7.85	0.625	187	0.013	44.88	9.14	246.67	244.43	0.49	0.26	247.42	246.93
INLET A18	MH #12	0.23	7.45	0.55	0.13	4.10	1.27	11.85	6.25	1.00	0.79	25.60	1	2.5	0.012	4.91	7.85	0.625	28	0.012	48.23	9.83	244.29	243.96	0.09	0.33	246.55	246.46
MH #12	MH #13	0.00	7.45	0.55	0.00	4.10	0.00	11.90	6.24	1.00	0.00	25.56	1	2.5	0.012	4.91	7.85	0.625	25	0.012	48.67	9.91	242.98	242.68	0.08	0.33	245.26	245.18
INLET A19	INLET A20	1.71	1.71	0.55	0.94	0.94	15.48	15.48	5.61	1.00	5.27	5.27	1	1.5	0.006	1.77	4.71	0.375	32	0.013	8.30	4.70	239.79	239.59	0.08	0.25	241.17	241.09
MH #13	INLET A20	0.00	7.45	0.55	0.00	4.10	0.00	11.94	6.23	1.00	0.00	25.53	1	2.5	0.012													

L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\08 STORM SEWER PLAN.DWG Mgr. 27, 2025- 1:55 PM BRIAN STROKA

100 Year																											HGL			
Inlet Info																														
		Total Drainage Area		Runoff Co. "C"	DA C*A	Total C*A	Drainage Area Time of Conc. (Min)	Total Time of Conc. (Min)	Intensity (I)	Cf	Drainage Area Flow (cfs)	Total Flow (cfs)	Number of Barrels		Diameter (ft)	Slope	Area (A)	Perimeter (P)	R=A/(P)	Length (ft)	Roughness (n)	Q _{capacity} (CFS)	V _{full flow} (FPS)	Upstream FL	Downstream FL	Change In Head (ft)	Hydraulic Gradeline %	Elevation of Hyd. Grad. Upstream (ft)	Elevation of Hyd. Grad. Downstream(ft)	
Inlet/MH From	Inlet/MH To	Area	Area																											
INLET A1	INLET A2	0.95	0.95	0.55	0.52	0.52	16.17	16.17	9.53	1.25	6.22	6.22	1	1.5	0.005	1.77	4.71	0.375	40	0.013	7.43	4.20	263.27	263.07	0.14	0.35	264.71	264.57		
INLET A2	MH #1	0.92	1.87	0.55	0.51	1.03	15.85	16.33	9.49	1.25	6.00	12.20	1	1.5	0.007	1.77	4.71	0.375	114	0.012	9.71	5.49	257.76	256.93	1.31	1.15	260.13	258.82		
MH #1	MH #2	0.00	1.87	0.55	0.00	1.03	0.00	16.68	9.40	1.25	0.00	12.08	1	1.5	0.007	1.77	4.71	0.375	123	0.012	9.73	5.51	256.83	255.93	1.39	1.13	258.82	257.43		
MH #2	MH #3	0.00	1.87	0.55	0.00	1.03	0.00	17.05	9.30	1.25	0.00	11.96	1	1.5	0.012	1.77	4.71	0.375	102	0.013	11.53	6.53	253.73	252.50	1.32	1.30	256.84	255.52		
INLET A3	INLET A4	1.02	1.02	0.55	0.56	0.56	16.73	16.73	9.38	1.25	6.58	6.58	1	1.5	0.007	1.77	4.71	0.375	30	0.013	8.57	4.85	257.08	256.88	0.12	0.39	258.50	258.38		
MH #3	INLET A4	0.00	1.87	0.55	0.00	1.03	0.00	17.31	9.24	1.25	0.00	11.88	1	1.5	0.012	1.77	4.71	0.375	63	0.013	11.53	6.53	251.40	250.64	0.81	1.28	255.52	254.71		
INLET A4	MH #4	1.79	4.68	0.55	0.98	2.57	17.61	17.47	9.20	1.25	11.32	29.60	1	2	0.012	3.14	6.28	0.500	170	0.012	26.84	8.54	250.55	248.51	2.48	1.46	254.71	252.23		
INLET A5	INLET A6	0.91	0.91	0.55	0.50	0.50	15.00	17.64	9.16	1.25	5.73	5.73	1	1.5	0.006	1.77	4.71	0.375	35	0.013	7.94	4.49	248.23	248.03	0.10	0.30	250.12	250.01		
MH #4	INLET A6	0.00	4.68	0.55	0.00	2.57	0.00	17.95	9.08	1.25	0.00	29.23	1	2	0.012	3.14	6.28	0.500	156	0.012	26.83	8.54	245.14	243.27	2.22	1.42	252.23	250.01		
INLET A6	MH #5	1.20	6.79	0.55	0.66	3.73	15.38	18.24	9.01	1.25	7.44	42.08	1	2	0.012	3.14	6.28	0.500	139	0.013	24.79	7.89	240.64	238.97	4.81	3.46	250.01	245.20		
MH #5	MH #6	0.00	6.79	0.55	0.00	3.73	0.00	18.53	8.95	1.25	0.00	41.76	1	2	0.012	3.14	6.28	0.500	149	0.012	26.86	8.55	237.95	236.16	4.33	2.90	245.20	240.88		
INLET A7	INLET A8	1.55	1.55	0.55	0.85	0.85	16.34	16.34	9.49	1.25	10.11	10.11	1	1.5	0.005	1.77	4.71	0.375	41	0.013	7.33	4.15	238.20	238.00	0.38	0.93	239.88	239.50		
MH #6	INLET A8	0.00	6.79	0.55	0.00	3.73	0.00	18.86	8.87	1.25	0.00	41.41	1	2.5	0.010	4.91	7.85	0.625	163	0.013	41.01	8.35	234.87	233.24	1.66	1.02	240.88	239.21		
INLET A8	MH #7	0.87	9.21	0.55	0.48	5.07	16.62	19.03	8.83	1.25	5.28	55.92	1	2.5	0.010	4.91	7.85	0.625	88	0.013	41.01	8.35	233.14	232.26	1.64	1.86	239.21	237.58		
INLET A9	INLET A10	0.20	0.20	0.55	0.11	0.11	2.89	10.00	11.60	1.25	1.59	1.59	1	1.5	0.007	1.77	4.71	0.375	28	0.013	8.87	5.02	233.42	233.22	0.01	0.02	234.73	234.72		
MH #7	INLET A10	0.00	9.21	0.55	0.00	5.07	0.00	19.61	8.70	1.25	0.00	55.10	1	2.5	0.008	4.91	7.85	0.625	259	0.013	36.66	7.47	231.79	229.72	4.68	1.81	237.58	232.90		
INLET A10	MH #14	0.41	9.82	0.55	0.23	5.40	11.04	19.80	8.66	1.25	2.44	58.48	1	3	0.005	7.07	9.42	0.750	76	0.013	47.16	6.67	228.56	228.18	0.58	0.76	232.90	232.32		
INLET A11	INLET A12	0.29	0.29	0.55	0.16	0.16	1.44	10.00	11.60	1.25	2.31	2.31	1	1.5	0.005	1.77	4.71	0.375	70	0.013	7.43	4.20	266.98	266.63	0.03	0.05	268.16	268.13		
INLET A12	MH #8	0.86	1.15	0.55	0.47	0.63	1.85	10.28	11.48	1.25	6.79	9.07	1	1.5	0.012	1.77	4.71	0.375	94	0.012	12.47	7.06	263.10	261.97	0.60	0.63	264.07	263.47		
E-INLET #1	MH #9	2.35	2.35	0.40	0.94	0.94	15.11	15.11	9.82	1.25	11.54	11.54	1	2	0.005	3.14	6.28	0.500	30	0.012	17.33	5.51	256.60	256.45	0.07	0.22	258.52	258.45		
MH #8	MH #9	0.00	1.15	0.55	0.00	0.63	0.00	10.50	11.39	1.25	0.00	9.00	1	1.5	0.012	1.77	4.71	0.375	97	0.012	12.44	7.04	259.36	258.20	0.61	0.62	260.31	259.70		
INLET A13	INLET A14	0.29	0.29	0.55	0.16	0.16	1.54	10.00	11.60	1.25	2.31	2.31	1	1.5	0.007	1.77	4.71	0.375	28	0.013	8.87	5.02	255.89	255.69	0.01	0.05	257.20	257.19		
MH #9	INLET A14	0.00	3.79	0.55	0.00	2.08	0.00	10.73	11.29	1.25	0.00	29.43	1	2	0.012	3.14	6.28	0.500	110	0.012	26.94	8.58	255.24	253.91	1.59	1.43	258.23	256.64		
INLET A14	INLET A15	0.68	4.47	0.55	0.37	2.46	7.95	10.94	11.21	1.25	5.24	34.44	1	2	0.012	3.14	6.28	0.500	39	0.012	26.90	8.56	252.80	252.33	0.77	1.96	256.64	255.87		
INLET A15	INLET A16	1.52	5.99	0.55	0.84	3.29	4.91	11.02	11.18	1.25	11.68	46.04	1	2	0.013	3.14	6.28	0.500	28	0.013	26.00	8.28	251.54	251.17	1.16	4.12	255.87	254.71		
INLET A16	MH #10	0.05	6.04	0.55	0.03	3.32	1.15	11.08	11.16	1.25	0.38	46.33	1	2	0.012	3.14	6.28	0.500	109	0.012	26.86	8.55	249.87	248.56	3.90	3.55	254.71	250.82		
MH #10	MH #11	0.00	6.04	0.55	0.00	3.32	0.00	11.29	11.08	1.25	0.00	45.99	1	2.5	0.012	4.91	7.85	0.625	123	0.013	44.83	9.13	248.24	246.77	1.55	1.25	250.82	249.27		
INLET A17	INLET A18	1.18	1.18	0.55	0.65	0.65	2.42	10.00	11.60	1.25	9.41	9.41	1	1.5	0.005	1.77	4.71	0.375	39	0.013	7.52	4.26	250.57	250.37	0.31	0.80	252.18	251.87		
MH #11	INLET A18	0.00	6.04	0.55	0.00	3.32	0.00	11.51	10.99	1.25	0.00	45.64	1	2.5	0.012	4.91	7.85	0.625	187	0.013	44.88	9.14	246.67	244.43	2.32	1.23	249.25	246.93		
INLET A18	MH #12	0.23	7.45	0.55	0.13	4.10	1.27	11.85	10.87	1.25	1.72	55.65	1	2.5	0.012	4.91	7.85	0.625	28	0.012	48.23	9.83	244.29	243.96	0.44	1.56	246.90	246.46		
MH #12	MH #13	0.00	7.45	0.55	0.00	4.10	0.00	11.90	10.85	1.25	0.00	55.56	1	2.5	0.012	4.91	7.85	0.625	25	0.012	48.67	9.91	242.98	242.68	0.39	1.56	245.57	245.18		
INLET A19	INLET A20	1.71	1.71	0.55	0.94	0.94	15.48	15.48	9.72	1.25	11.43	11.43	1	1.5	0.006	1.77	4.71	0.375	32	0.013	8.30	4.70	239.79	239.59	0.38	1.18	241.47	241.09		
MH #13	INLET A20	0.00	7.45	0.55	0.00	4.10	0.00	11.94	10.83	1.25	0.00	55.48	1	2.5	0.012	4.91	7.85	0.625	225	0.012	48.67	9.91	240.91	238.21	3.51	1.55	244.27	240.76		
INLET A21	INLET A22	0.62	0.62	0.55	0.34	0.34	14.62	14.62	9.96	1.25	4.25	4.25	1	1.5	0.007	1.77	4.71	0.375	29	0.013	8.72	4.93	233.44	233.24	0.05	0.16	234.79	234.74		
INLET A20	INLET A22	0.0																												

Drainage Area: Offsite DA-1A								
Segment:	Flow Type	n	length	slope	Paved?	V, if req'd.>>>	Time (hr)	Time (min)
	1 sheet		0.24	185	0.0570 no	N/A	0.21	12.54
	2 shallow			0	0.0000 no	0	#DIV/0!	#DIV/0!
	3 channel			839	Varies no	3	0.08	4.66
	4 channel			0	Varies no	3	0.00	0.00
			1024					17.20

Drainage Area: Offsite DA-18								
Segment:	Flow Type	n	length	slope	Paved?	V, if req'd.>>>	Time (hr)	Time (min)
	1 sheet		0.24	300	0.0230 no	N/A	0.44	26.53
	2 shallow			403	0.0590 no	3.919056	0.03	1.71
	3 channel			415	Varies no		0.04	2.31
	4 channel			0	Varies no	3	0.00	0.00
				1118				28.84

Weighted C-value Calculation: Offsite DA-1A		
Material	Acreage	C-Value
Pasture	3.02	0.35
	Weighted C:	0.35

Weighted C-value Calculation: Offsite DA-1B		
Material	Acreage	C-Value
Pasture	4.38	0.35
1/8 Acre Residential	1.26	0.55
	Weighted C:	0.39

Drainage Calculations (5-Yr)							
Drainage Area	Area	Tc	C	I	Ci	Q	
OFFSITE DA-1A	3.02	17.20	0.35	5.25	1	5.55	
OFFSITE DA-1B	5.64	28.84	0.39	4.00	1	8.90	

Drainage Calculations (25-Yr)						
Drainage Area	Area	Tc	C	I	C _i	Q
OFFSITE DA-1A	3.02	17.20	0.35	7.24	1.1	8.42
OFFSITE DA-1B	5.64	28.84	0.39	5.60	1.1	13.71

Drainage Calculations (100-Yr)							
Drainage Area	Area	Tc	C	I	C _i	Q	
OFFSITE DA-1A	3.02	17.20	0.35	9.00	1.25	11.89	
OFFSITE DA-1B	5.64	28.84	0.39	6.90	1.25	19.20	

Drainage Ditch Capacity-OFFSITE 1A															
	Proposed	Right	Left				Wetted								
	Min	Sideslope	Sideslope	Bottom	Top		Perimeter		Slope (S)	Roughness		Q _{capacity}	V _{full flow}	50% 100-Yr	
Cross-Section	Depth	(ft):1	(ft):1	Width	Width	Area (A)	(P)	R=(A/P)	(ft/ft)	(n)	>>>>	(CFS)	(FPS)	Flow*	
														Capacity?	
1-1	1.50	3	3	1	10.00	8.25	10.49	0.787	0.0136	0.027		45.12	5.47	5.95	yes

Drainage Ditch Capacity-OFFSITE 1A														
	Proposed Min Depth	Right Sideslope (ft):1	Left Sideslope (ft):1	Bottom Width	Top Width	Area (A)	Wetted Perimeter (P)	R=(A/P)	Slope (S) (ft/ft)	Roughness (n)	Q capacity (CFS)	V full flow (FPS)	100-Yr Flow*	Capacity?
2-2	1.50	3	3	1	10.00	8.25	10.49	0.787	0.0264	0.027	62.87	7.62	11.89	yes

Drainage Ditch Capacity-OFFSITE 1B														
Cross-Section	Proposed Min Depth	Right	Left	Bottom Width	Top Width	Area (A)	Wetted	Slope (S) (ft/ft)	Roughness (n)	>>>>	Q _{capacity} (CFS)	V _{full flow} (FPS)	25% 100-Yr	
		Sideslope (ft.:1)	Sideslope (ft.:1)				Perimeter (P)						R=(A/P)	Flow* OFFSITE 1A
3-3	1.75	3	3	2	12.50	12.69	13.07	0.971	0.0789	0.027	192.31	15.16	16.69	yes

Drainage Ditch Capacity-OFFSITE 1B														
	Proposed Min	Right Sideslope	Left Sideslope	Bottom Width	Top Width	Area (A)	Wetted Perimeter		Slope (S)	Roughness		Q _{capacity}	V _{full flow}	50% 100-Yr Flow*
Cross-Section	Depth	(ft):1	(ft):1	Width	Width		(P)	R=(A/P)	(ft/ft)	(n)	>>>>	(CFS)	(FPS)	OFFSITE 1A Capacity?
4-4	1.75	3	3	2	12.50	12.69	13.07	0.971	0.0286	0.027		115.79	9.13	21.49 yes

Drainage Ditch Capacity-OFFSITE 1B															
	Right	Left							Wetted	100-Yr					
Cross-Section	Proposed Min Depth	Sideslope (ft):1	Sideslope (ft):1	Bottom Width	Top Width	Area (A)	Perimeter (P)	R=(A/P)	Slope (S) (ft/ft)	Roughness (n)	>>>>	Q _{capacity} (CFS)	V _{full flow} (FPS)	Flow* 1A OFFSITE 1A	Capacity?
5-5	1.75	3	3	2	12.50	12.69	13.07	0.971	0.0331	0.027		124.56	9.82	31.09	yes

Drainage Area: Offsite DA-2A							
Segment	Flow Type	n	length	slope	Paved?	V, if req'd.>>>>	Time (hr) Time (min)
1	sheet	0.4	100	0.0350	no	N/A	0.23 14.02
2	shallow		228	0.0460	no	3.460465	0.02 1.10
3	shallow		287	0.0125	no	1.803892	0.04 2.65
			615				15.11

Weighted C-value Calculation: Offsite DA-2A		
Material	Acreage	C-Value
Pasture	2.35	0.35
	Weighted C:	0.35

Drainage Calculations (5-Yr)							
Drainage Area	Area	Tc	C	I	Cf	Q	
OFFSITE DA-2A	2.35	15.11	0.35	5.62	1	4.62	

Drainage Calculations (25-Yr)							
Drainage Area	Area	Tc	C	I	Cf	Q	
OFFSITE DA-2A	2.35	15.11	0.35	7.78	1.1	7.04	

Drainage Calculations (100-Yr)							
Drainage Area	Area	Tc	C	I	C _f	Q	
OFFSITE DA-2A		2.35	15.11	0.35	9.70	1.25	9.97

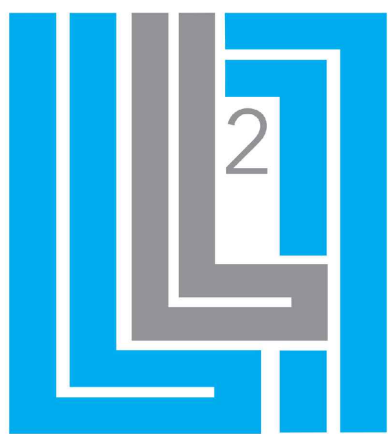
Drainage Ditch Capacity-OFFSITE 2A															
Cross-Section	Proposed		Right		Left		Wetted		Slope (S) (ft/ft)	Roughness (n)	>>>>	Q _{capacity} (CFS)	V _{full flow} (FPS)	100-Yr Flow*	Capacity?
	Min Depth	Sideslope (ft):1	Sideslope (ft):1	Bottom Width	Top Width	Area (A)	Perimeter (P)	R=(A/P)							
6-6	1.00	3	3	2	8.00	5.00	8.32	0.601	0.004	0.027		12.39	2.48	9.97	yes

[illegible][illegible]

		Slope	100-Yr	Proposed	Proposed Inlet
Inlet No.	Inlet Type	(%)	Flow	Inlet Size	Length (ft)
A1	On-Grade	0.005	6.22	C-1	10
A2	On-Grade	0.005	6.00	C-1	10
A3	On-Grade	0.0266	6.58	C-1	10
A4	On-Grade	0.0266	11.32	C-2	15
A5	On-Grade	0.0266	5.72	C-1	10
A6	On-Grade	0.0266	7.43	C-1	10
A7	On-Grade	0.0196	10.11	C-2	15
A8	On-Grade	0.0196	5.28	C-1	10
A9	On-Grade	0.0196	1.59	C	5
A10	On-Grade	0.0196	2.44	C	5
A11	On-Grade	0.0283	2.31	C	5
A12	On-Grade	0.0283	6.79	C-1	10
A13	On-Grade	0.0283	2.31	C	5
A14	On-Grade	0.0283	5.24	C-1	10
A15	On-Grade	0.0138	11.68	C-2	15
A16	On-Grade	0.0138	0.38	C	5
A17	On-Grade	0.0138	9.41	C-2	15
A18	On-Grade	0.0138	1.72	C	5
A19	On-Grade	0.0313	11.43	C-2	15
A20	On-Grade	0.0313	6.39	C-1	10
A21	On-Grade	0.0313	4.25	C	5
A22	On-Grade	0.0313	5.66	C-1	10
A23	On-Grade	0.0373	6.44	C-1	10
A24	On-Grade	0.0373	4.51	C	5
A25	On-Grade	0.0373	4.32	C	5
A26	On-Grade	0.0373	5.39	C-1	10
A27	Sag	0.0313	11.87	C-2	15
A28	Sag	0.0313	8.47	C-2	15

CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

DATE _____



L SQUARED ENGINEERING
MUNICIPAL COMMERCIAL RESIDENTIAL
WWW.L2ENGINEERING.COM
FIRM REGISTRATION NUMBER 11235
3307 W. DAVIS STREET #100
CONROE, TEXAS 77304
OFFICE: 936-647-0420

CLIENT INFORMATION

TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77042

PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

DRAINAGE CALCULATIONS 3 OF 3

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

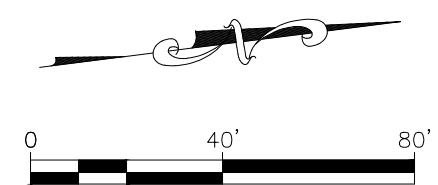
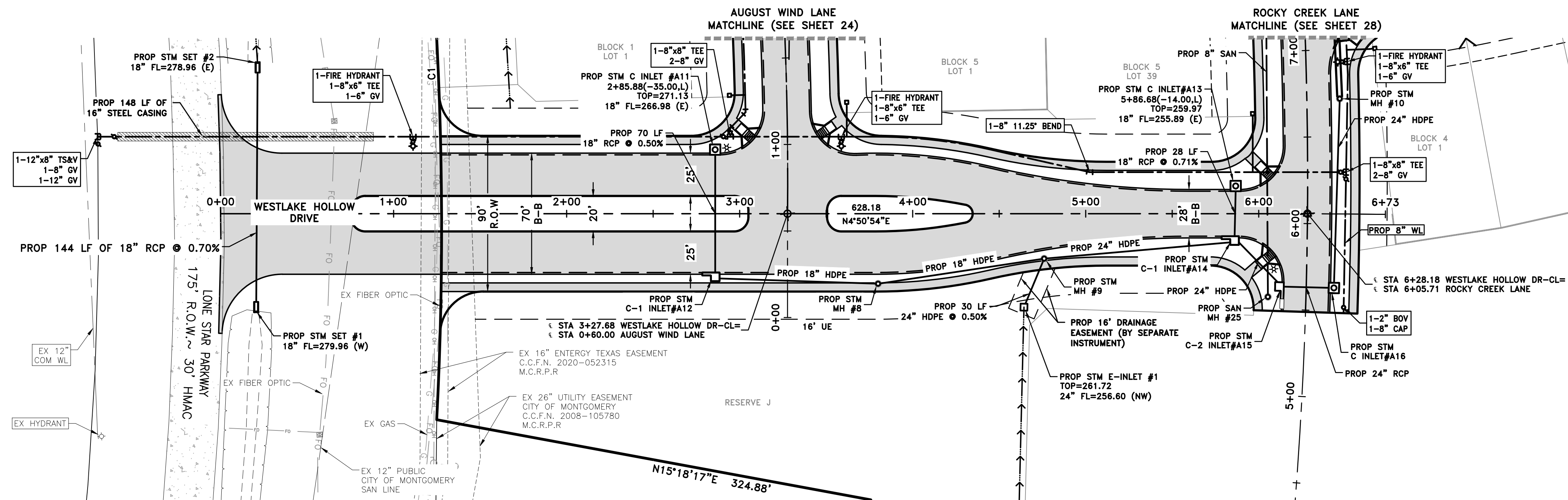
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PROJECT	10979	TDLR	*
DRAWN	BS	REVIEWED BY	JTW
SCALE		SHEET	

22



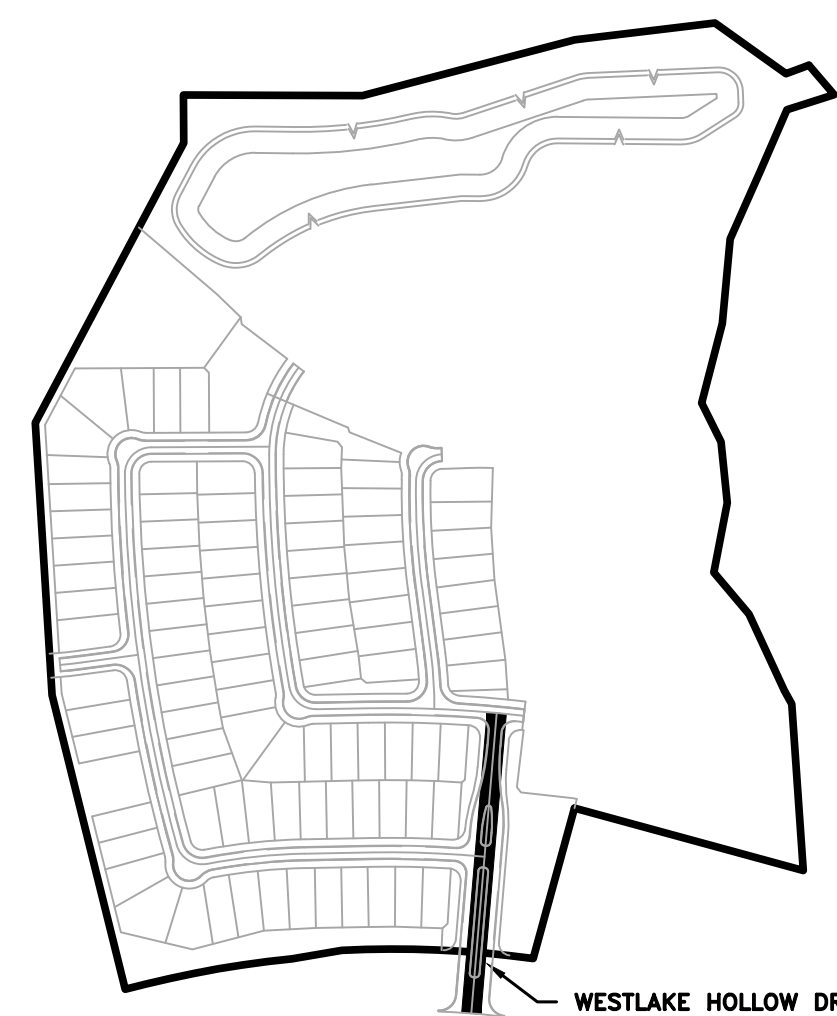
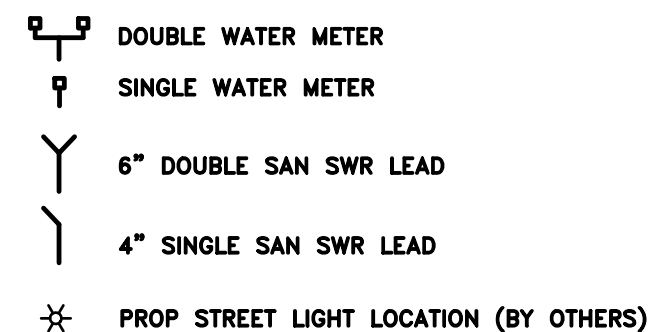
03/27/2025

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

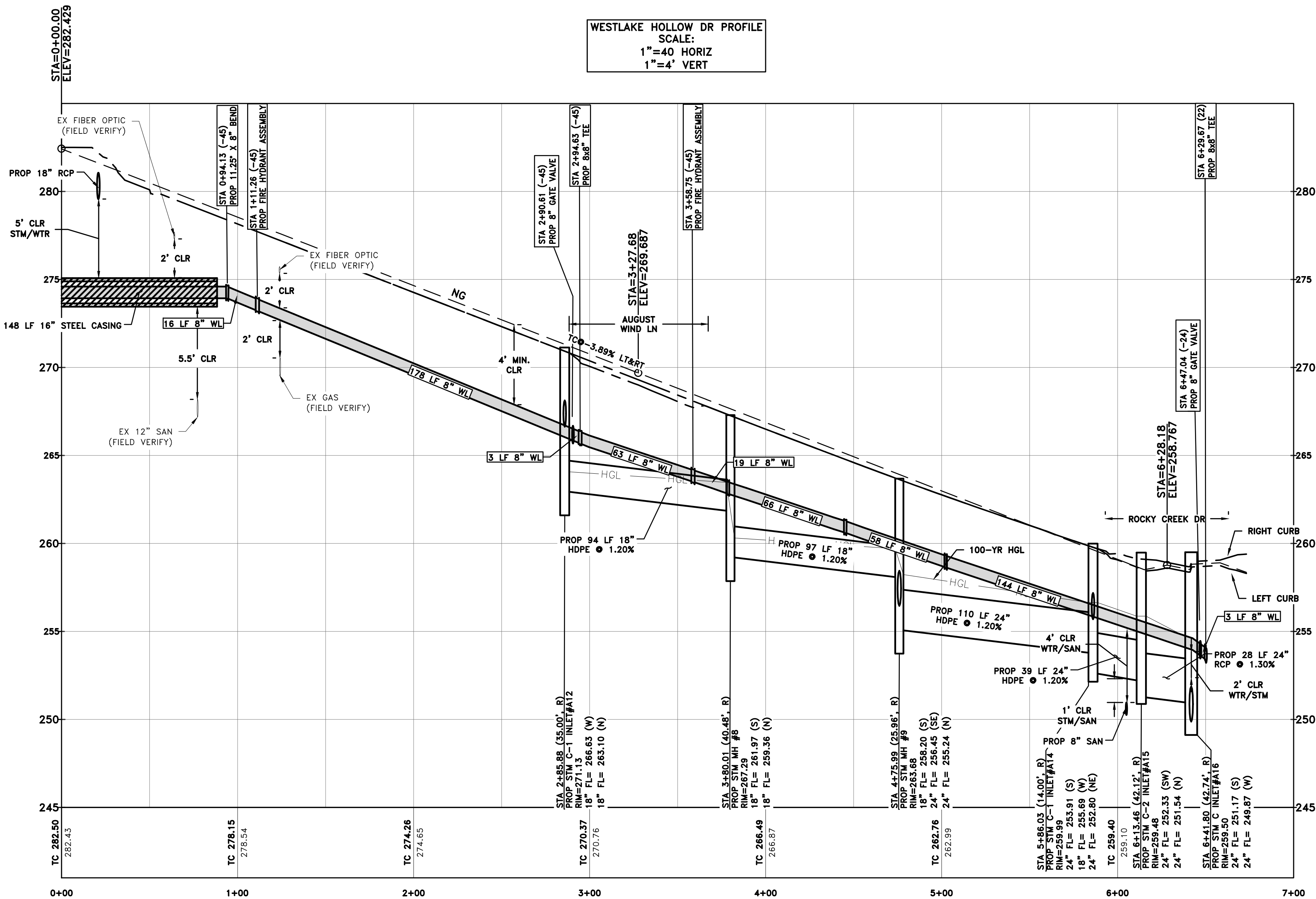
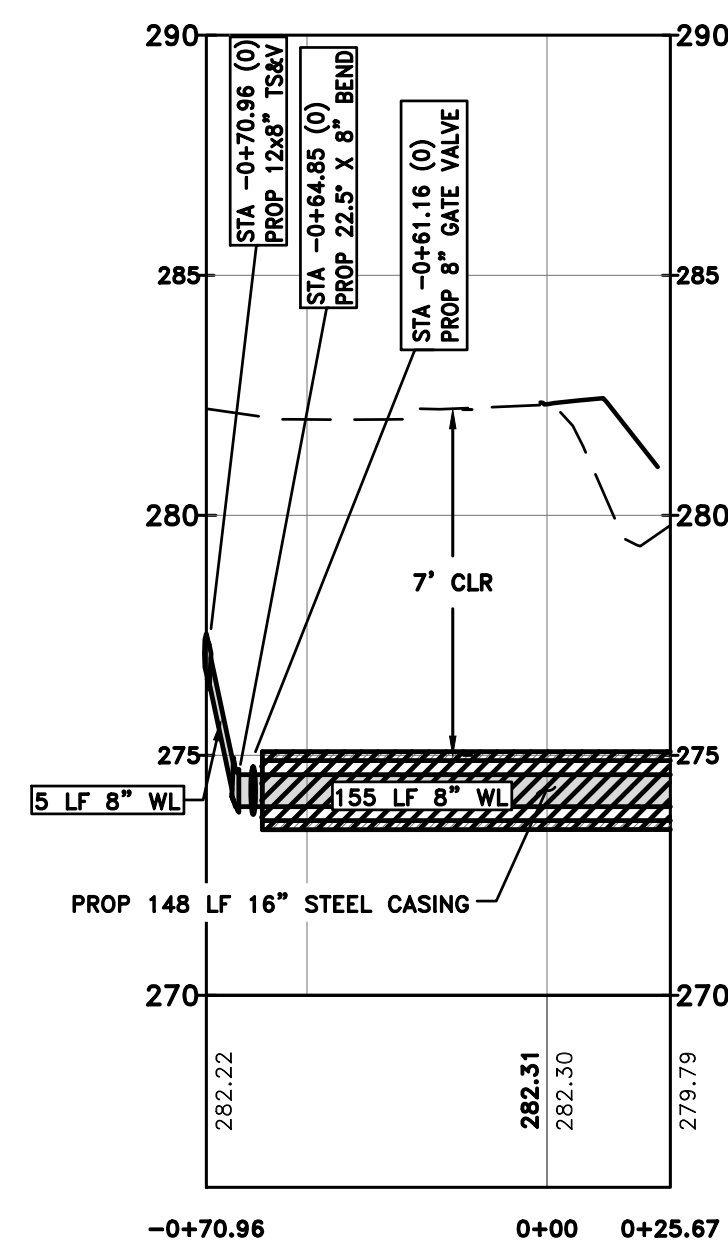
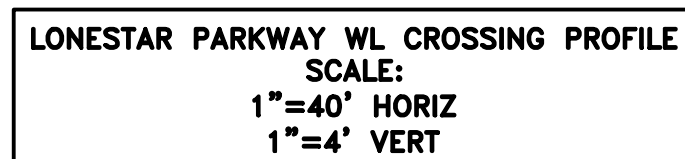


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LEGEND:



VICINITY MAP
N.T.S



CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

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0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	*
DRAWN	BS	REVIEWED BY	JTW
SCALE		SHEET	

1" = 40' (24x36)
1" = 80' (11x17)

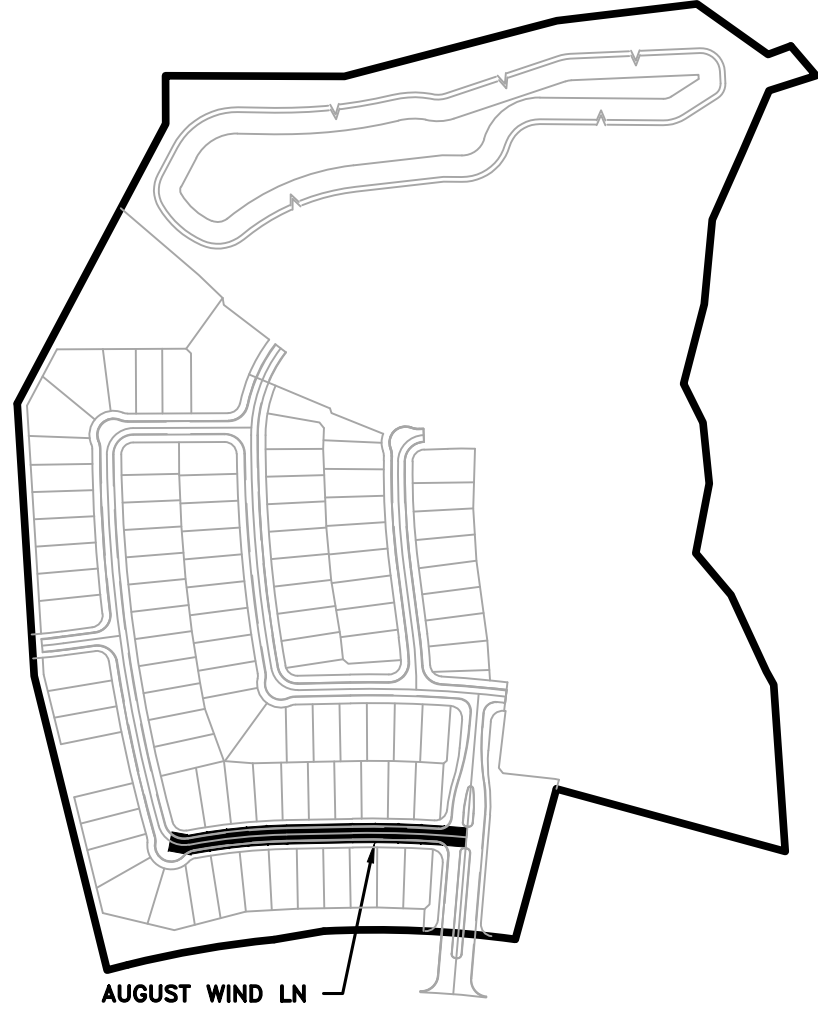
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03/27/2025

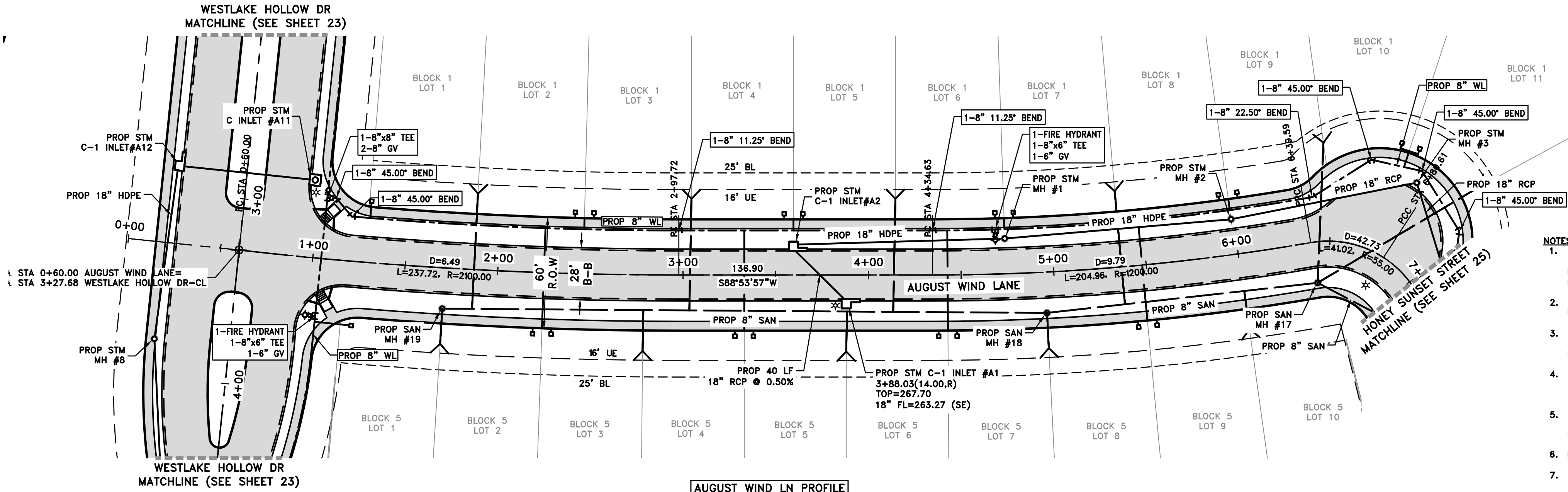
*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\14 AUGUST WIND LANE P&P.DWG Mar. 27, 2025-1:56 PM BRIAN STROKA

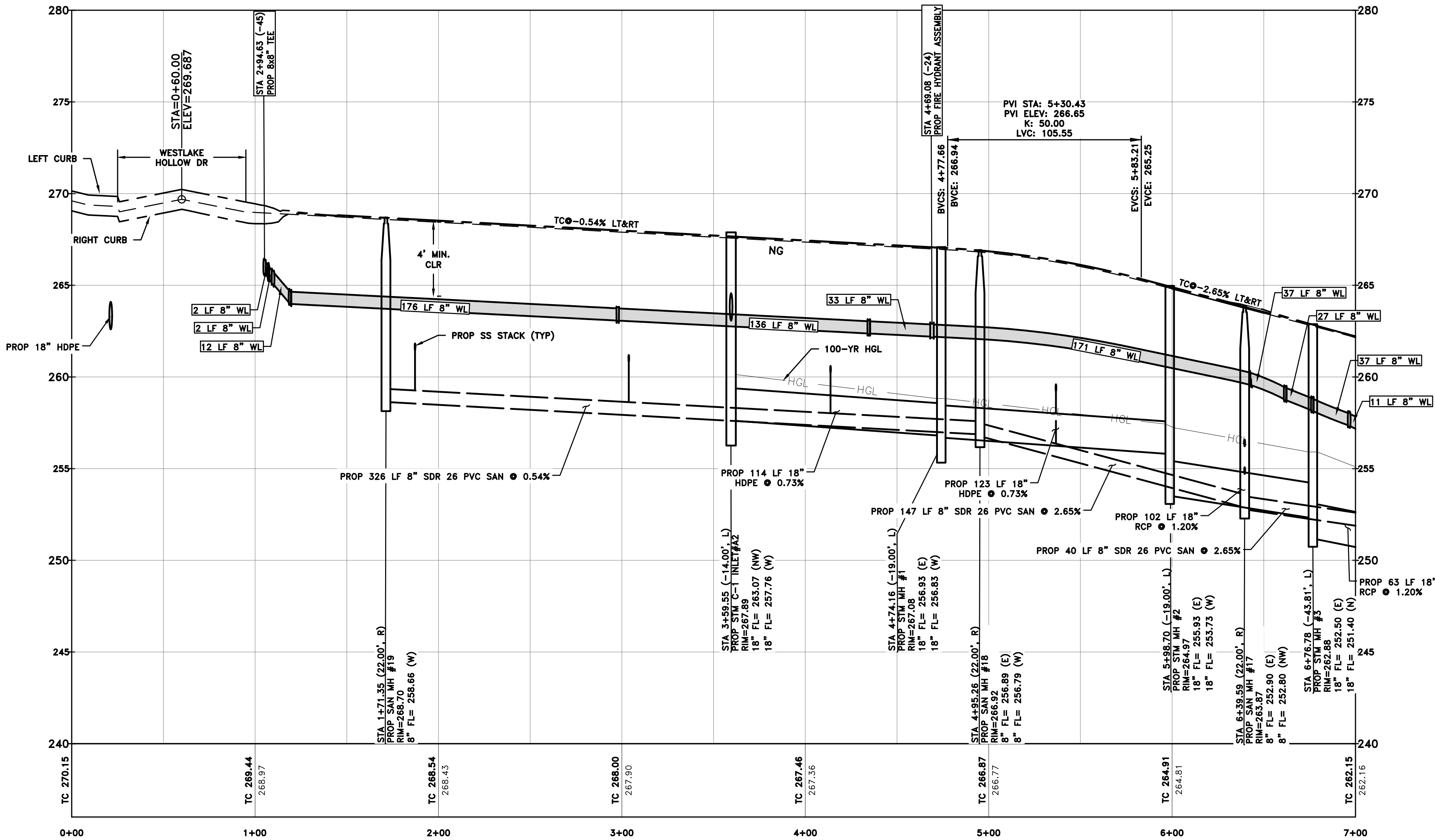


VICINITY MAP
N.T.S.

VERTICAL CURVE TABLE			
Station	Elevation	Grade Percent (%)	Location
4+77.66	266.94	-0.54%	PVC
4+80.00	266.92	-0.56%	
4+90.00	266.85	-0.69%	
5+00.00	266.77	-0.89%	
5+10.00	266.66	-1.09%	
5+20.00	266.53	-1.29%	
5+30.00	266.38	-1.49%	
5+30.43	266.37	-1.56%	Crest
5+40.00	266.21	-1.69%	
5+50.00	266.02	-1.89%	
5+60.00	265.81	-2.09%	
5+70.00	265.59	-2.29%	
5+80.00	265.34	-2.49%	
5+83.21	265.25	-2.62%	PVT



AUGUST WIND LN PROFILE
SCALE:
1"=40 HORIZ
1"=4' VERT



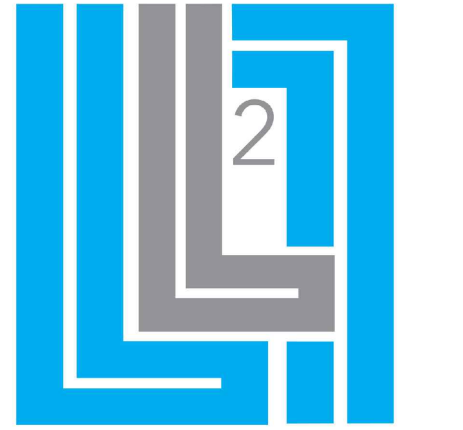
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LEGEND:

- DOUBLE WATER METER
- SINGLE WATER METER
- 6" DOUBLE SAN SWR LEAD
- 4" SINGLE SAN SWR LEAD
- PROP STREET LIGHT LOCATION (BY OTHERS)

CITY OF MONTGOMERY, CITY ENGINEER
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DATE



L SQUARED ENGINEERING
MUNICIPAL COMMERCIAL RESIDENTIAL
WWW.L2ENGINEERING.COM
3307 W. DAVIS STREET #300
HOUSTON, TEXAS 77062
OFFICE: 281-467-0602

CLIENT INFORMATION

TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77062
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

AUGUST WIND LANE STA 0+00 TO 7+00

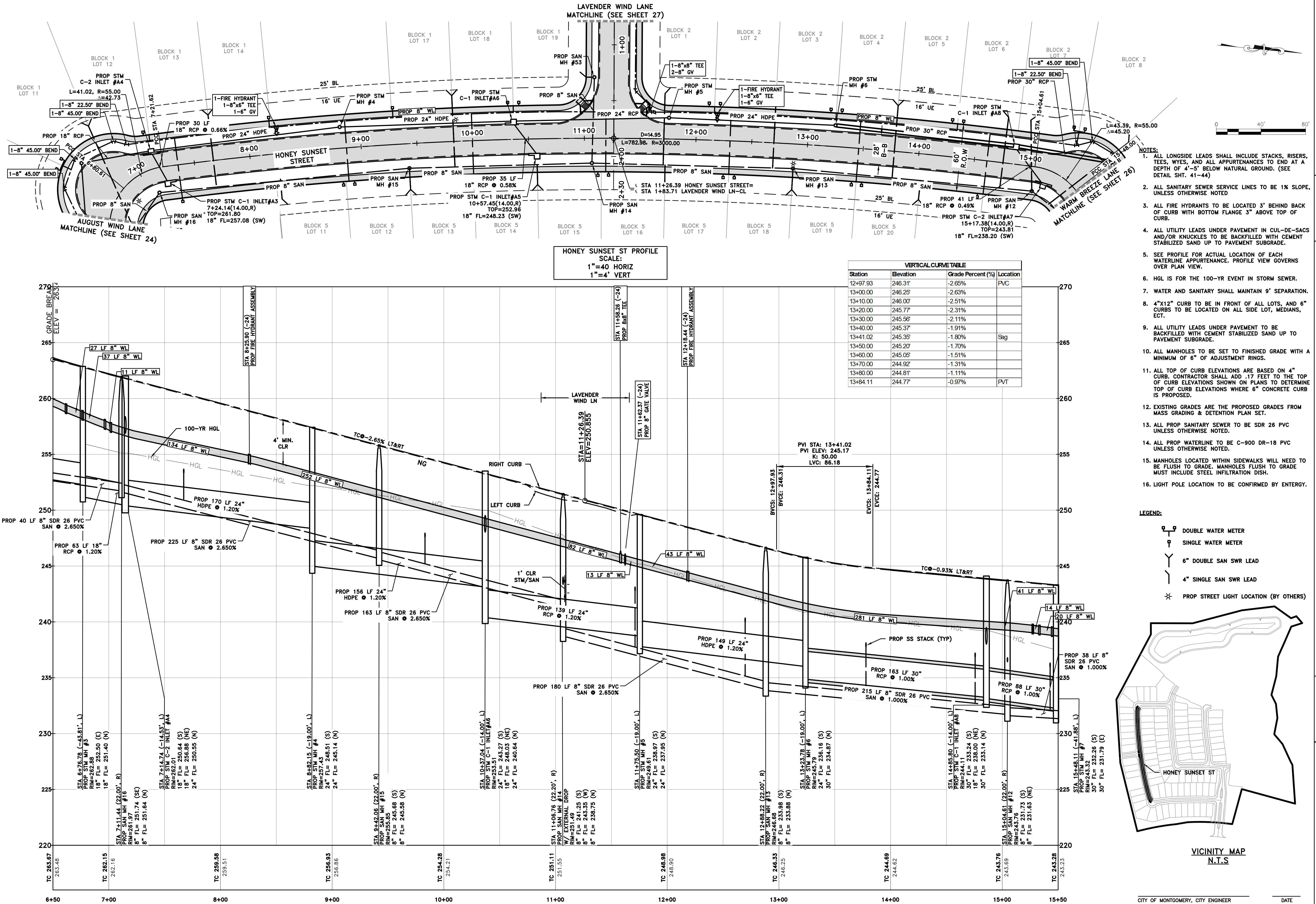
DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 40' (24x36) 1" = 80' (11x17)	SHEET	24



03/27/2025

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3307 W. DAVIS STREET #100
CONROE, TEXAS 77384
OFFICE: 281-467-0402

CLIENT INFORMATION
TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77062
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

HONEY SUNSET ST STA 7+00 TO 15+50

DRAWING ISSUE

#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION

PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW

SCALE 1" = 40' (24x36)
1" = 80' (11x17)

SHEET 25

JONATHAN T. WHITE
127058
PROFESSIONAL ENGINEER

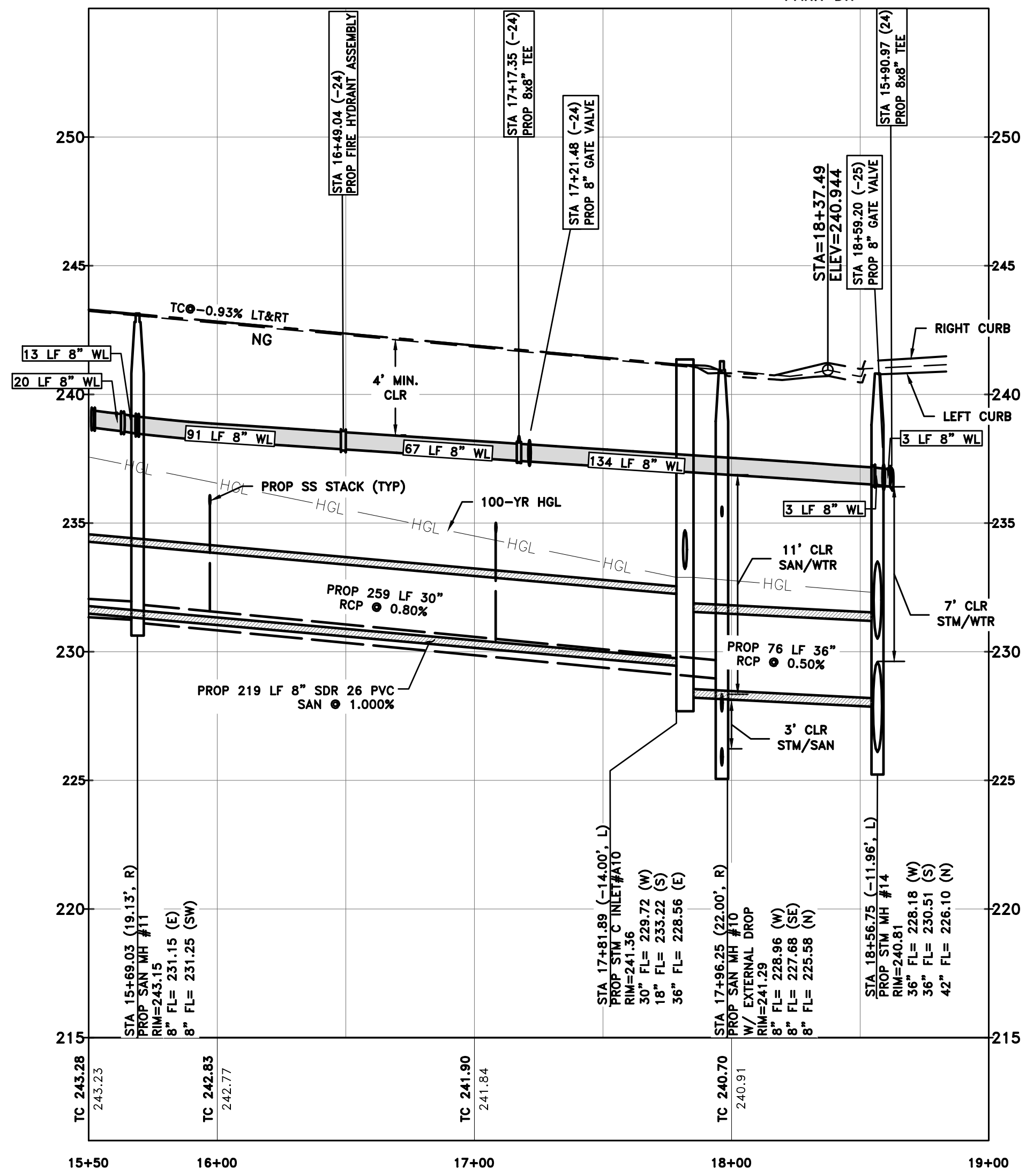
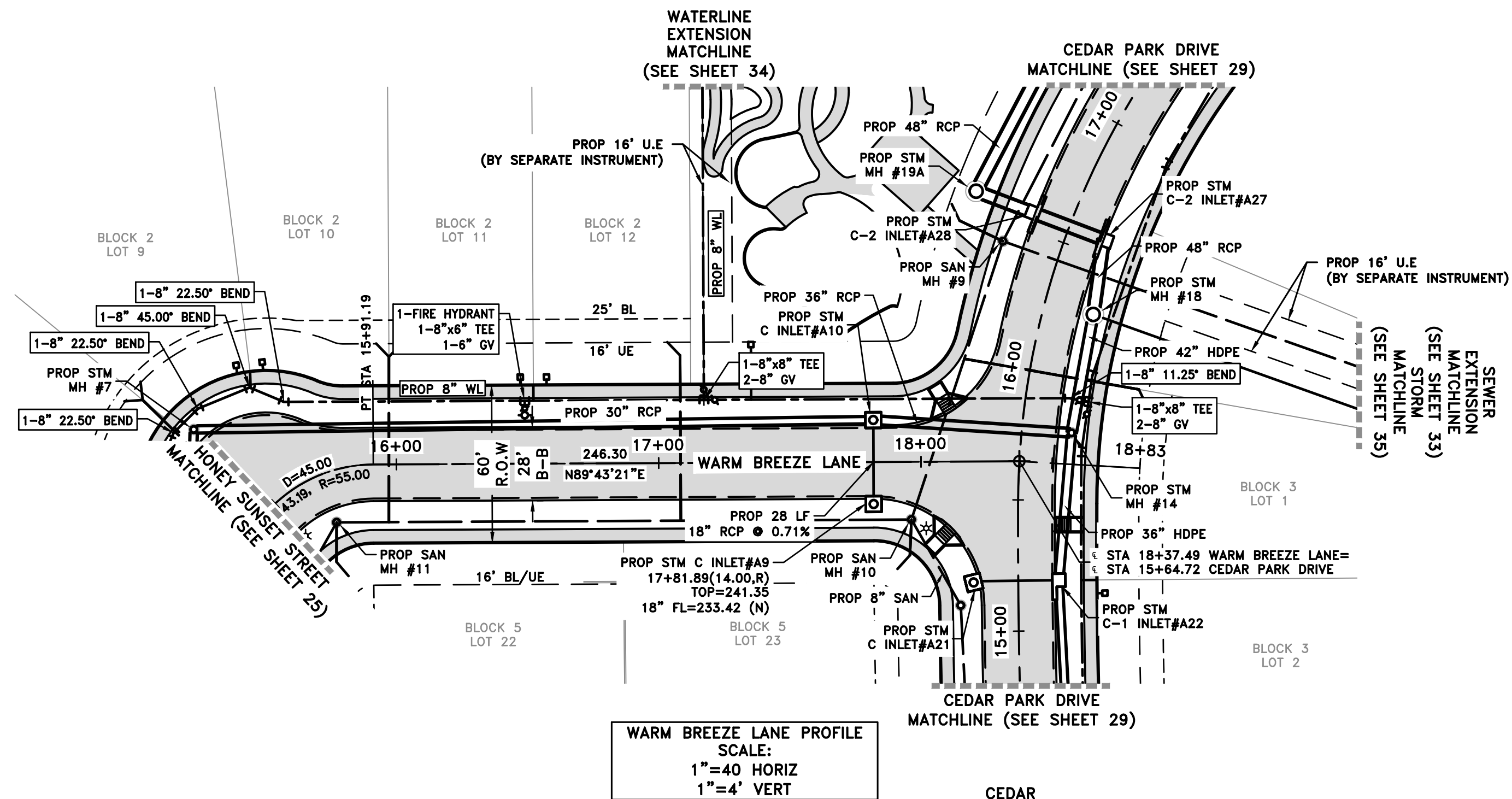
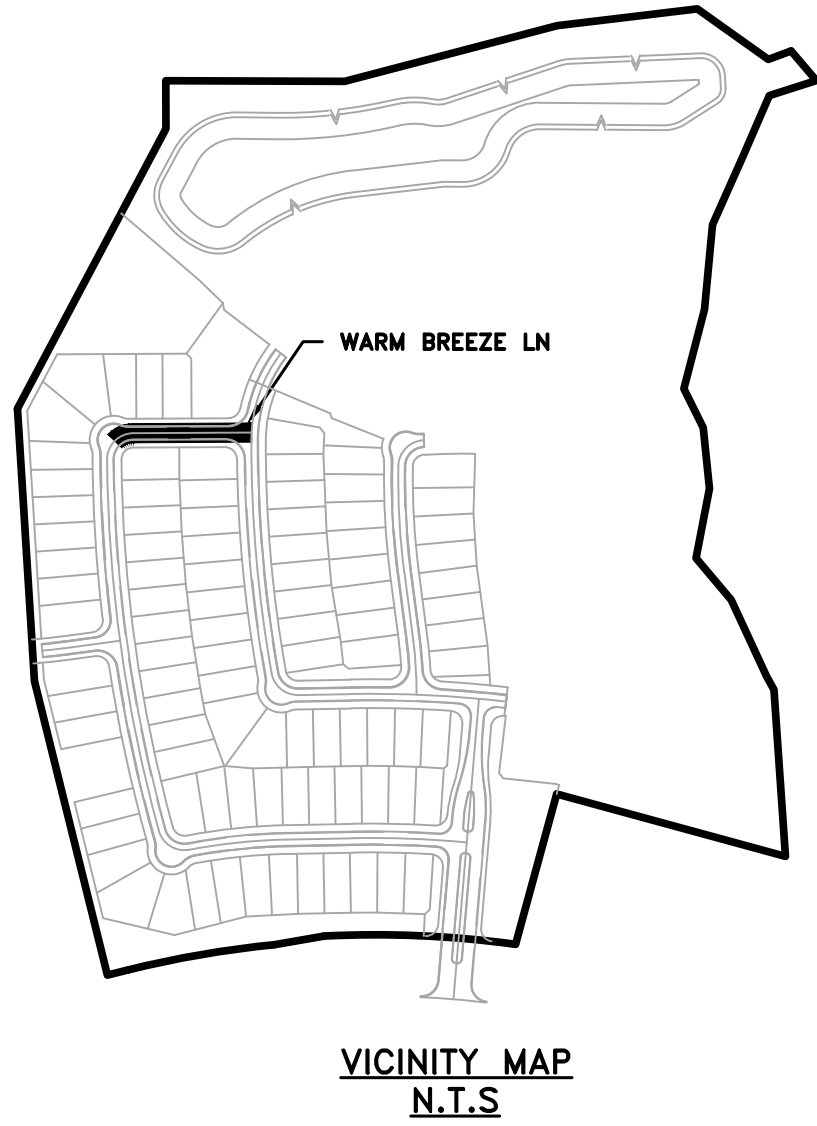
03/27/2025

CITY OF MONTGOMERY, CITY ENGINEER
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DATE

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L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\16 WARM BREEZE LANE P&P.DWG Mar. 27, 2025-1:58 PM BRIAN STROKA



- NOTES:
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 - SINGLE WATER METER
 - 6" DOUBLE SAN SWR LEAD
 - 4" SINGLE SAN SWR LEAD
 - PROP STREET LIGHT LOCATION (BY OTHERS)

CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

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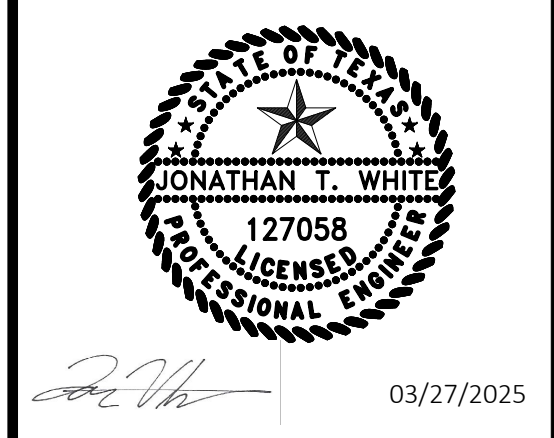


CLIENT INFORMATION
TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77042
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77056

LONE STAR RIDGE PHASE 1 WATER, SEWER, DRAINAGE & PAVING ON BEHALF OF MC MUC 179 WARM BREEZE LANE STA 15+50 TO 19+00

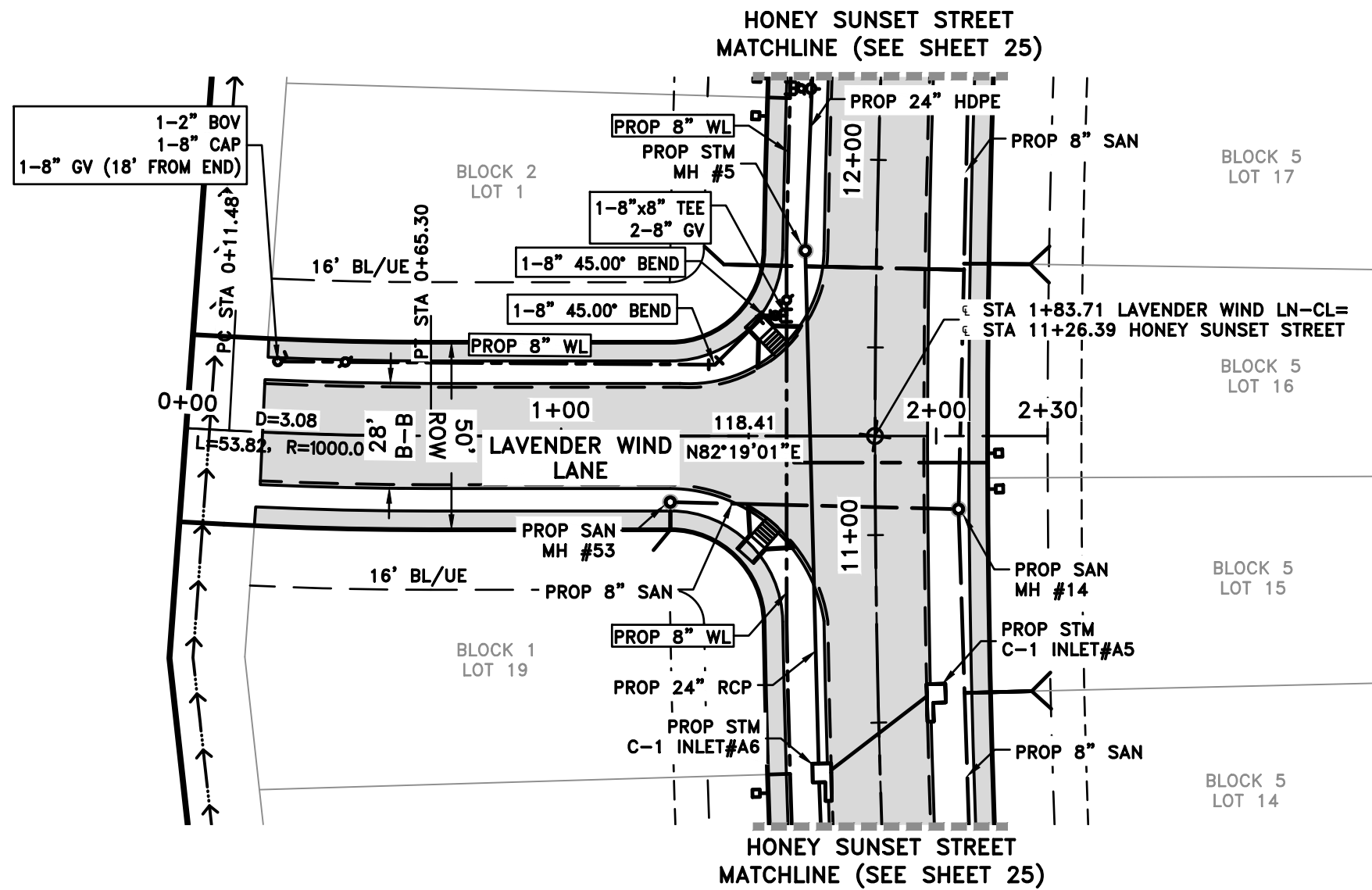
DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 40' (24x36) 1" = 80' (11x17)	SHEET	26

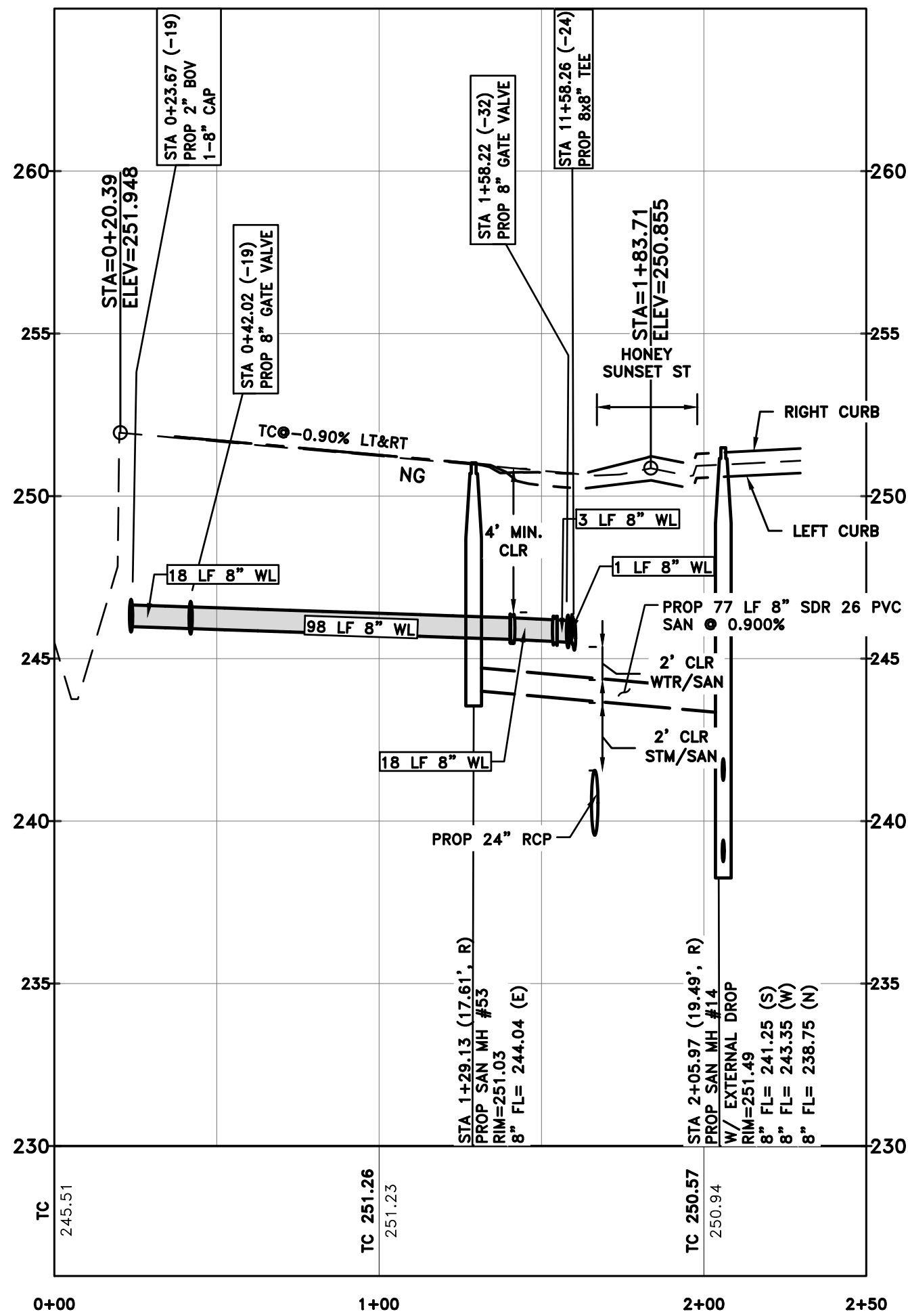


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L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\17 LAVENDER WIND LN P&P.DWG Mar. 27, 2025-1:59 PM BRIAN STROKA

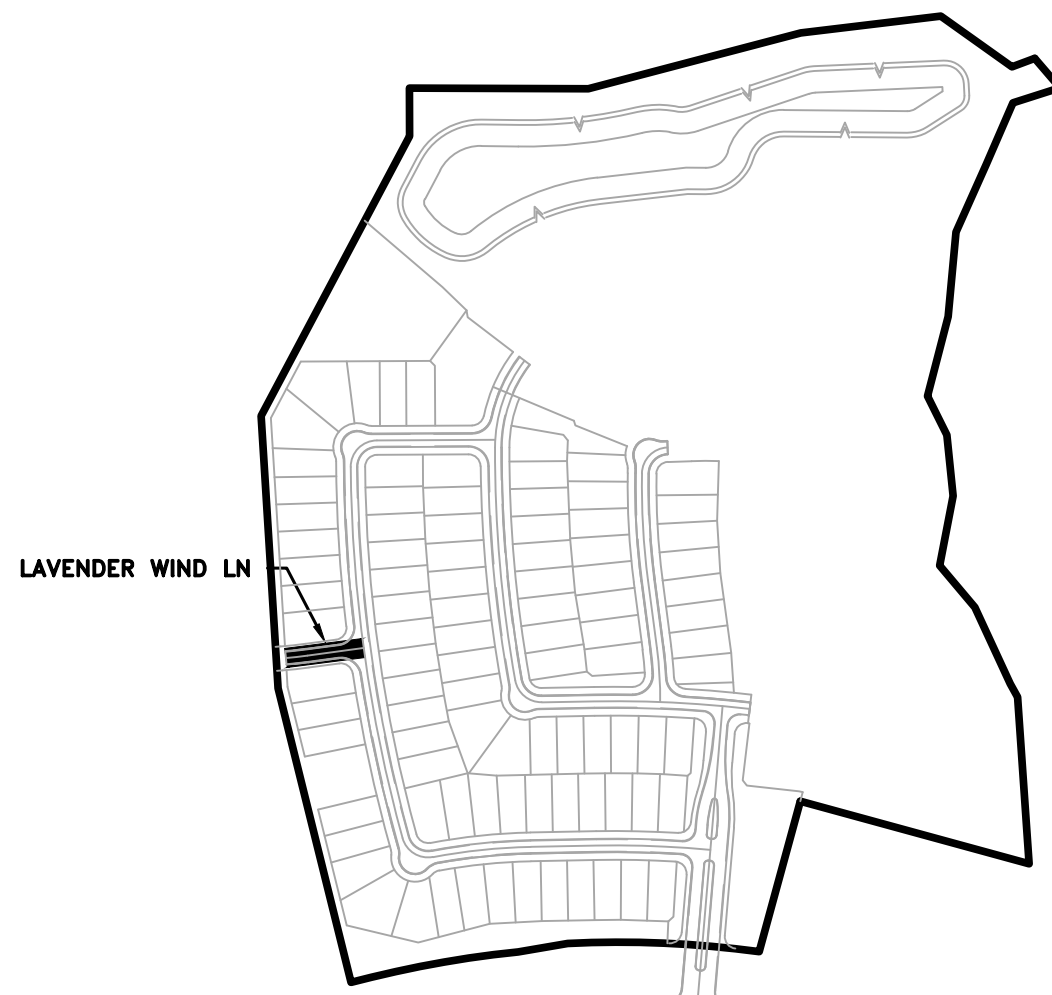


LAVENDER WIND LANE PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



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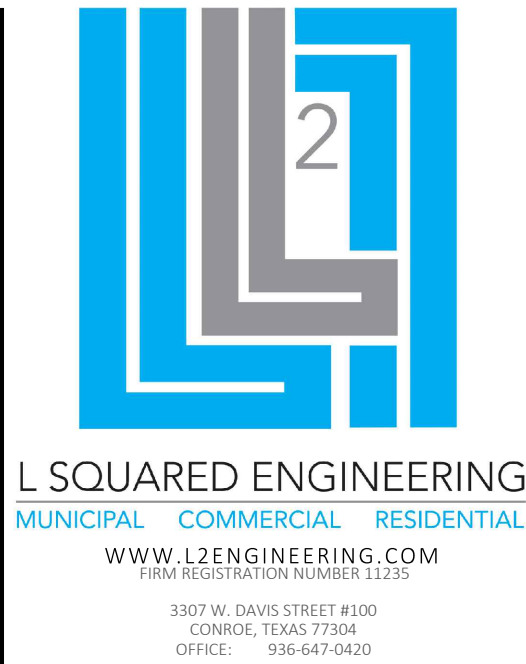
- LEGEND:
- DOUBLE WATER METER
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 - 4" SINGLE SAN SWR LEAD
 - PROP STREET LIGHT LOCATION (BY OTHERS)



VICINITY MAP
N.T.S

CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

DATE



CLIENT INFORMATION
TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77062
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
LAVENDER WIND LANE STA 0+00 TO 2+50

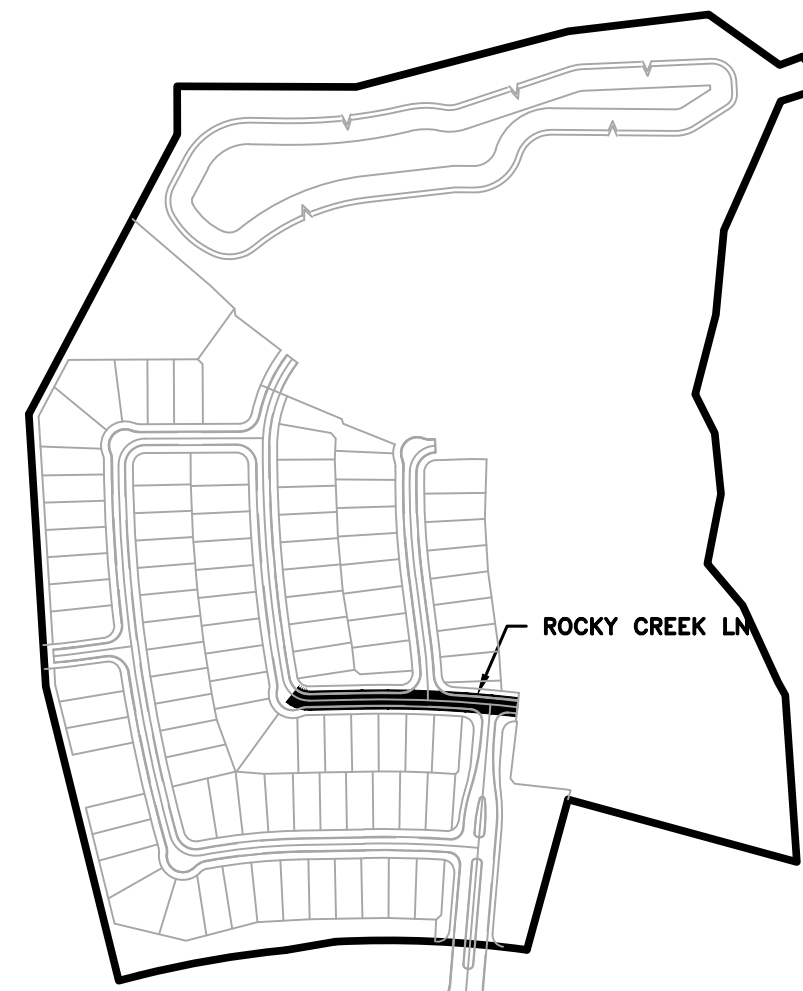
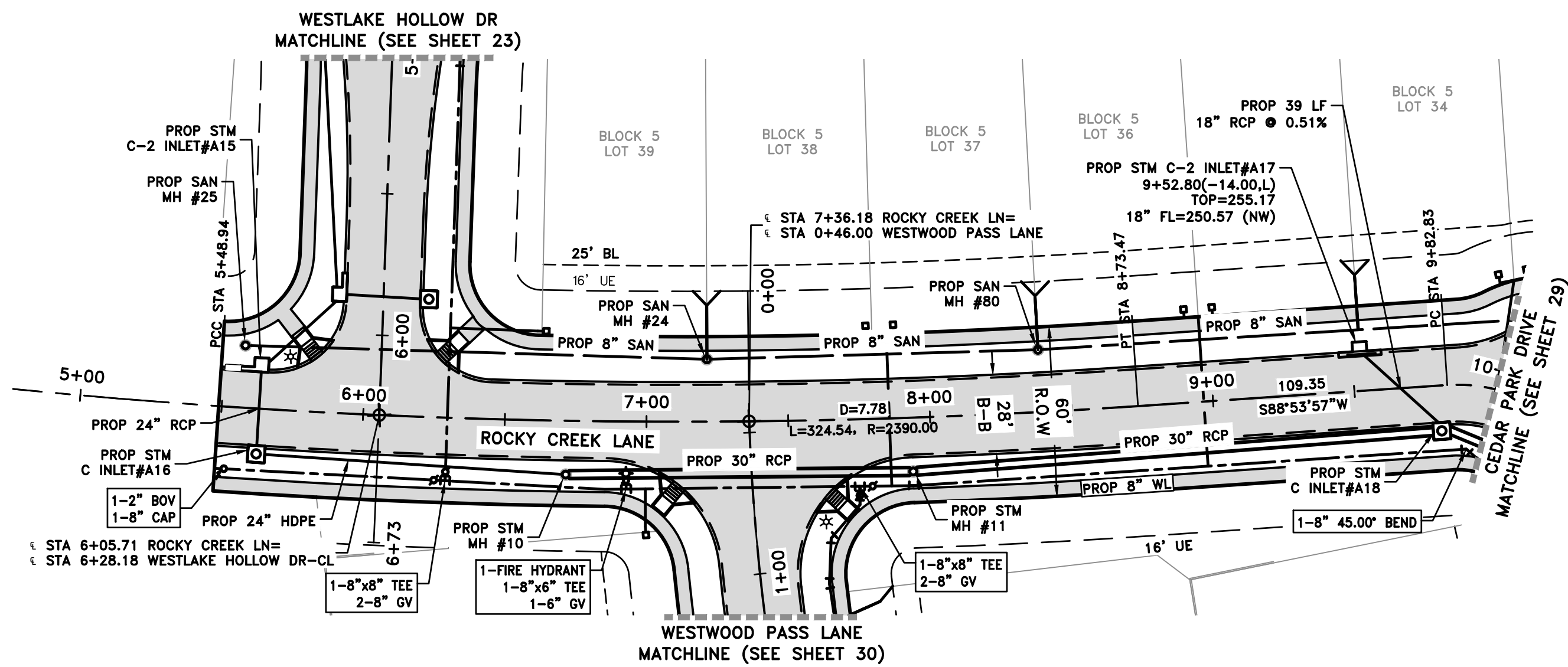
DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	SHEET		
1" = 40' (24x36)	27		
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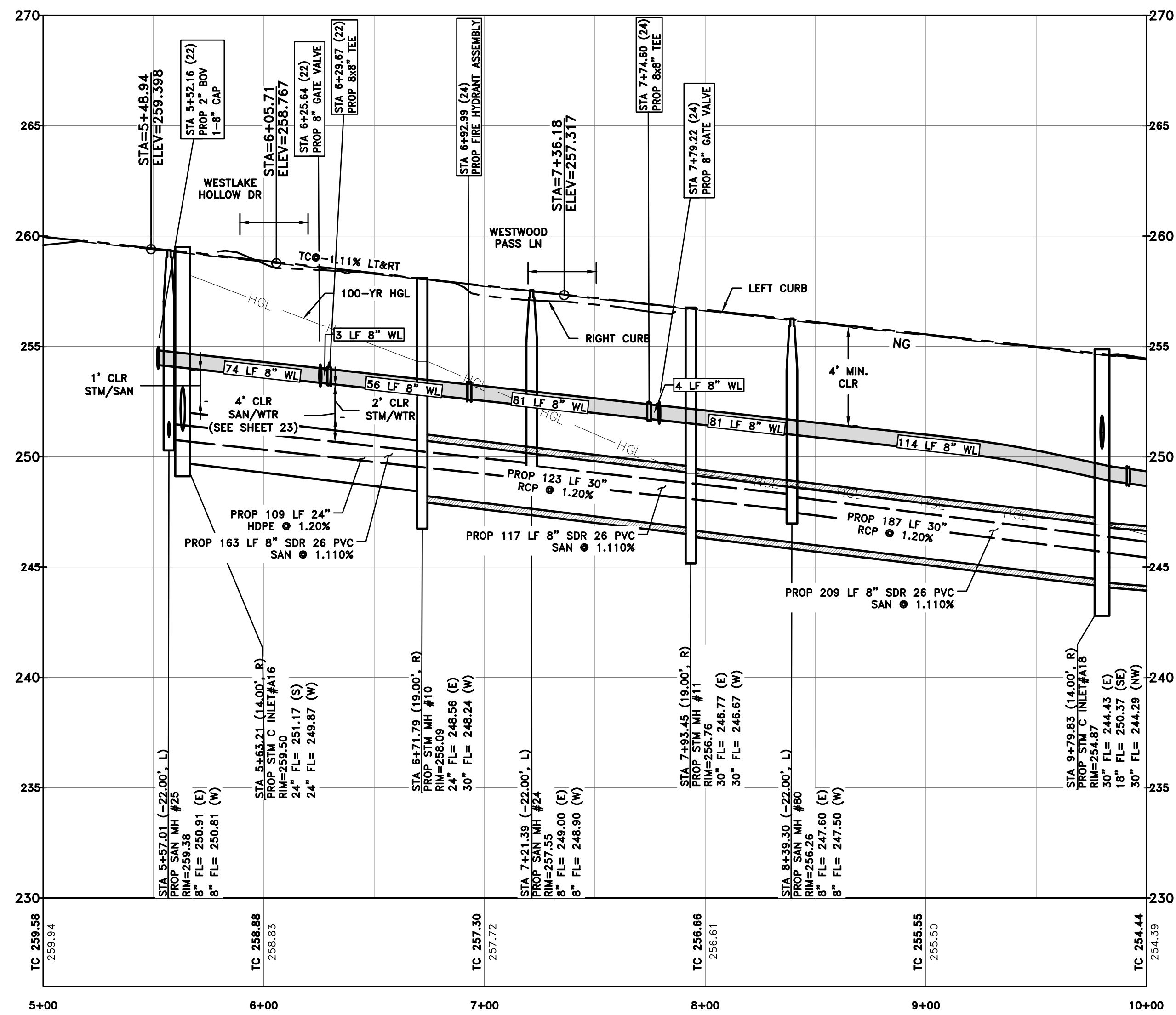


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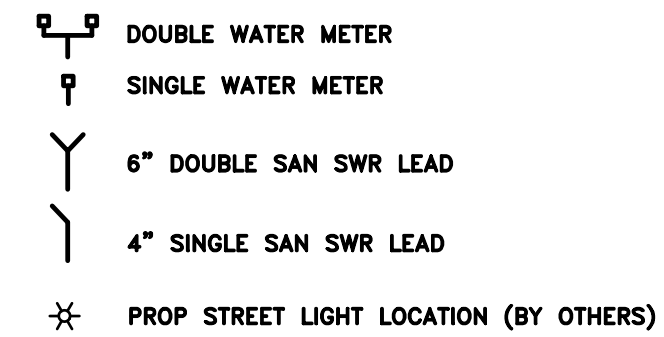


VICINITY MAP
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12. EXISTING GRADES ARE THE PROPOSED GRADES FROM MASS GRADING & DETENTION PLAN SET.
13. ALL PROP SANITARY SEWER TO BE SDR 26 PVC UNLESS OTHERWISE NOTED.
14. ALL PROP WATERLINE TO BE C-900 DR-18 PVC UNLESS OTHERWISE NOTED.
15. MANHOLES LOCATED WITHIN SIDEWALKS WILL NEED TO BE FLUSH TO GRADE. MANHOLES FLUSH TO GRADE MUST INCLUDE STEEL INFILTRATION DISH.
16. LIGHT POLE LOCATION TO BE CONFIRMED BY ENTERGY.

LEGEND:

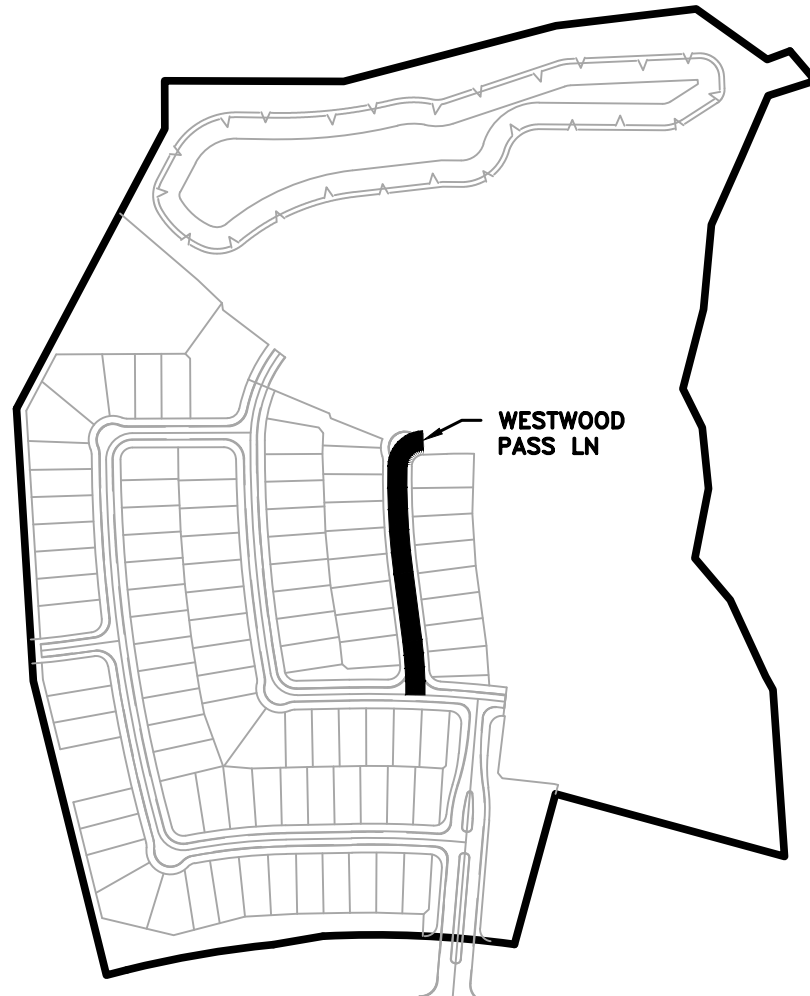


DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	
DRAWN	BS	REVIEWED BY	JTW
SCALE		SHEET	
1" = 40' (24x36) 1" = 80' (11x17)		28	

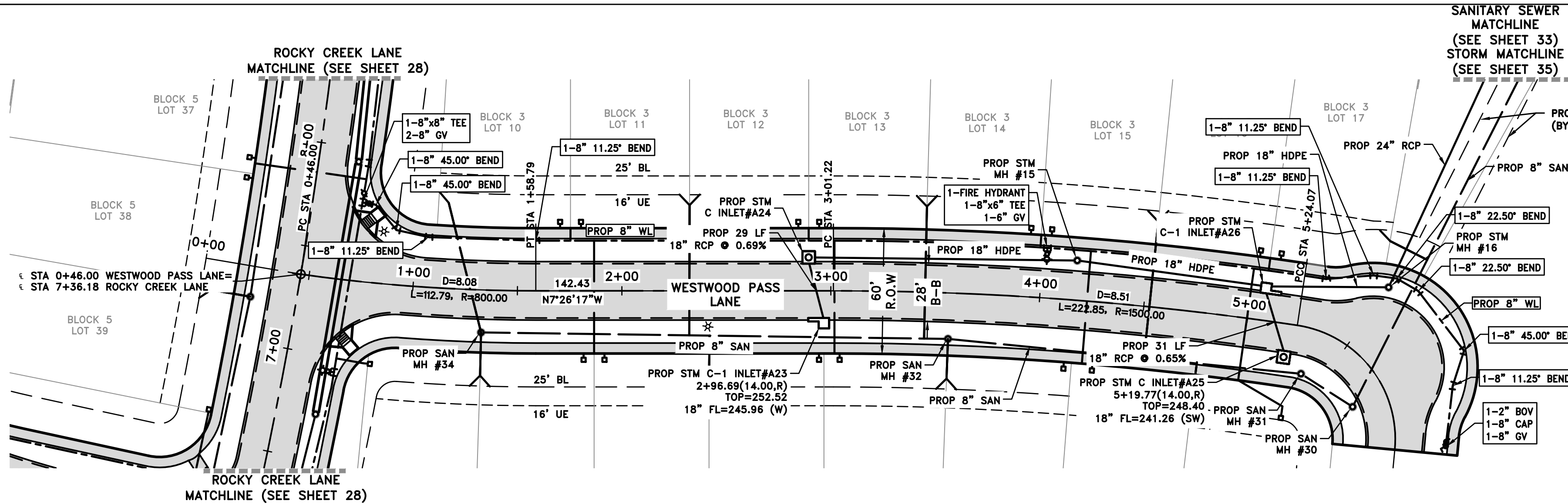


03/27/2025

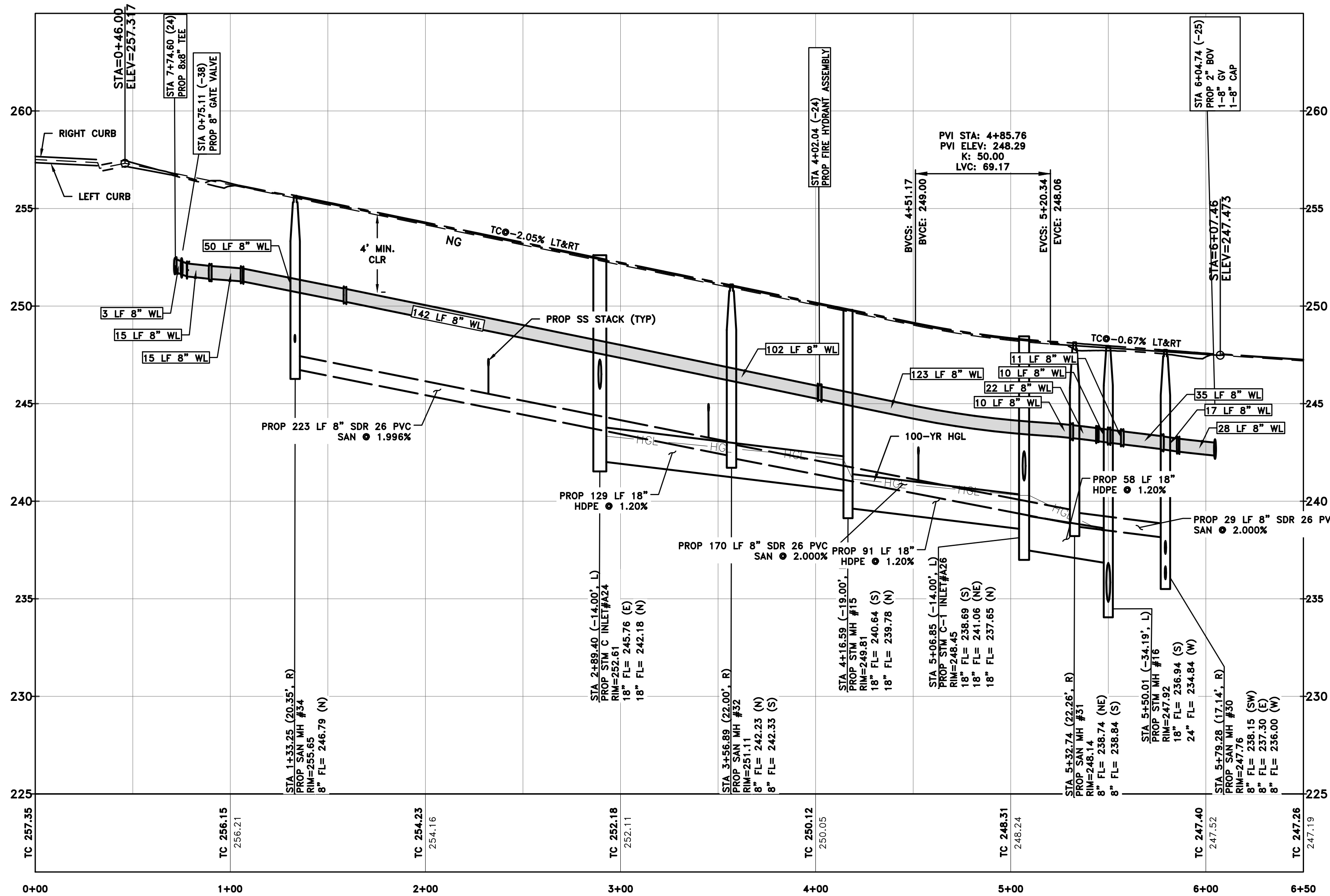


VICINITY MAP
N.T.S.

VERTICAL CURVE TABLE			
Station	Elevation	Grade Percent (%)	Location
4+51.17	249.00'	-2.05%	PVC
4+56.00	248.90'	-2.01%	
4+66.00	248.72'	-1.86%	
4+76.00	248.55'	-1.66%	Sag
4+85.76	248.41'	-1.46%	
4+86.00	248.41'	-1.36%	
4+96.00	248.28'	-1.26%	
5+06.00	248.17'	-1.06%	
5+16.00	248.09'	-0.86%	
5+20.34	248.06'	-0.71%	PVT



WESTWOOD PASS LANE PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



- NOTES:
- ALL LONGSIDE LEADS SHALL INCLUDE STACKS, RISERS, TEES, WYES, AND ALL APPURTENANCES TO END AT A DEPTH OF 4'-5' BELOW NATURAL GROUND. (SEE DETAIL SHT. 41-44)
 - ALL SANITARY SEWER SERVICE LINES TO BE 1% SLOPE, UNLESS OTHERWISE NOTED
 - ALL FIRE HYDRANTS TO BE LOCATED 3' BEHIND BACK OF CURB WITH BOTTOM FLANGE 3" ABOVE TOP OF CURB.
 - ALL UTILITY LEADS UNDER PAVEMENT IN CUL-DE-SACS AND/OR KNUCKLES TO BE BACKFILLED WITH CEMENT STABILIZED SAND UP TO PAVEMENT SUBGRADE.
 - SEE PROFILE FOR ACTUAL LOCATION OF EACH WATERLINE APPURTENANCE. PROFILE VIEW GOVERNS OVER PLAN VIEW.
 - HGL IS FOR THE 100-YR EVENT IN STORM SEWER.
 - WATER AND SANITARY SHALL MAINTAIN 9' SEPARATION.
 - 4"x12" CURB TO BE IN FRONT OF ALL LOTS, AND 6" CURBS TO BE LOCATED ON ALL SIDE LOT, MEDIANS, ECT.
 - ALL UTILITY LEADS UNDER PAVEMENT TO BE BACKFILLED WITH CEMENT STABILIZED SAND UP TO PAVEMENT SUBGRADE.
 - ALL MANHOLES TO BE SET TO FINISHED GRADE WITH A MINIMUM OF 6" OF ADJUSTMENT RINGS.
 - ALL TOP OF CURB ELEVATIONS ARE BASED ON 4" CURB. CONTRACTOR SHALL ADD .17 FEET TO THE TOP OF CURB ELEVATIONS SHOWN ON PLANS TO DETERMINE TOP OF CURB ELEVATIONS WHERE 6" CONCRETE CURB IS PROPOSED.
 - EXISTING GRADES ARE THE PROPOSED GRADES FROM MASS GRADING & DETENTION PLAN SET.
 - ALL PROP SANITARY SEWER TO BE SDR 26 PVC UNLESS OTHERWISE NOTED.
 - ALL PROP WATERLINE TO BE C-900 DR-18 PVC UNLESS OTHERWISE NOTED.
 - MANHOLES LOCATED WITHIN SIDEWALKS WILL NEED TO BE FLUSH TO GRADE. MANHOLES FLUSH TO GRADE MUST INCLUDE STEEL INFILTRATION DISH.
 - LIGHT POLE LOCATION TO BE CONFIRMED BY ENTERGY.

- LEGEND:
- DOUBLE WATER METER
 - SINGLE WATER METER
 - 6" DOUBLE SAN SWR LEAD
 - 4" SINGLE SAN SWR LEAD
 - PROP STREET LIGHT LOCATION (BY OTHERS)

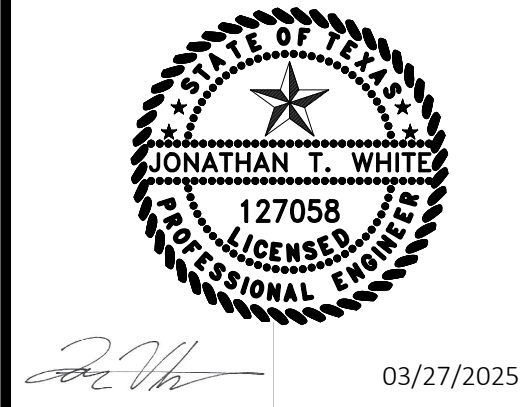


CLIENT INFORMATION
TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77062
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
WESTWOOD PASS LANE
0+00 TO 5+50

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	SHEET		
1" = 40' (24x36)	30		
1" = 80' (11x17)			

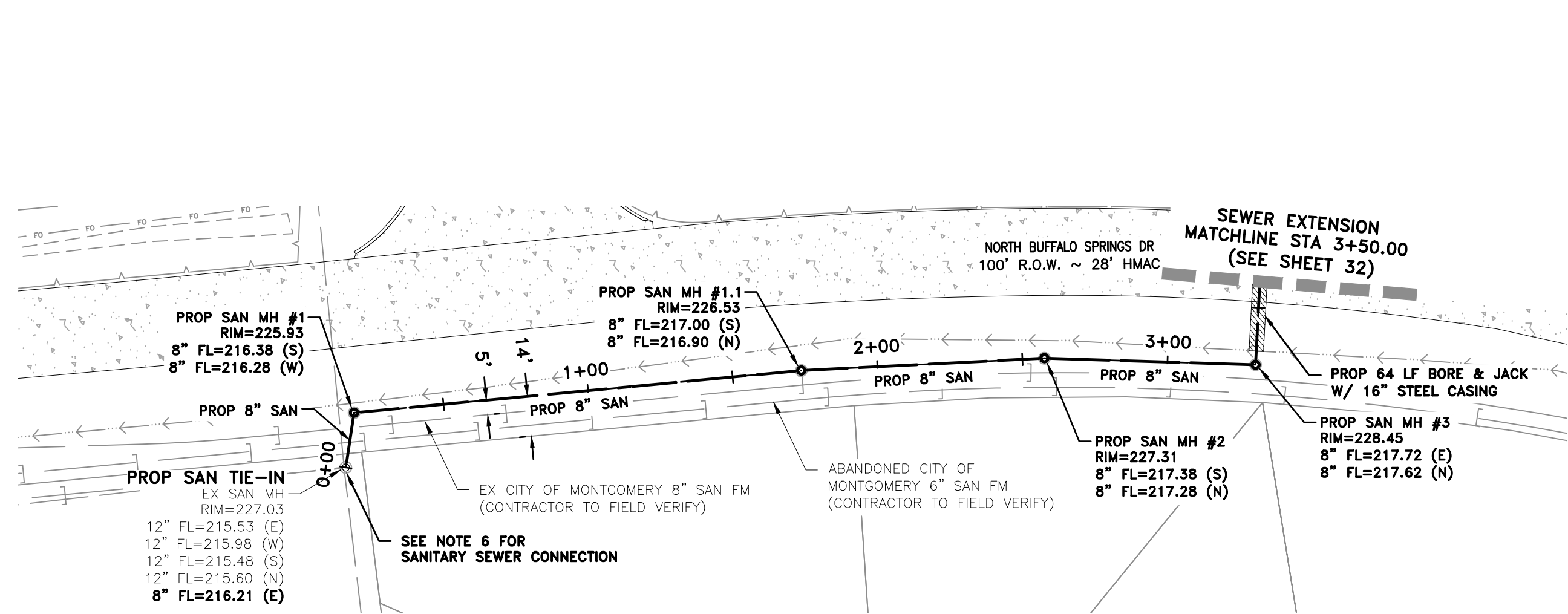


CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

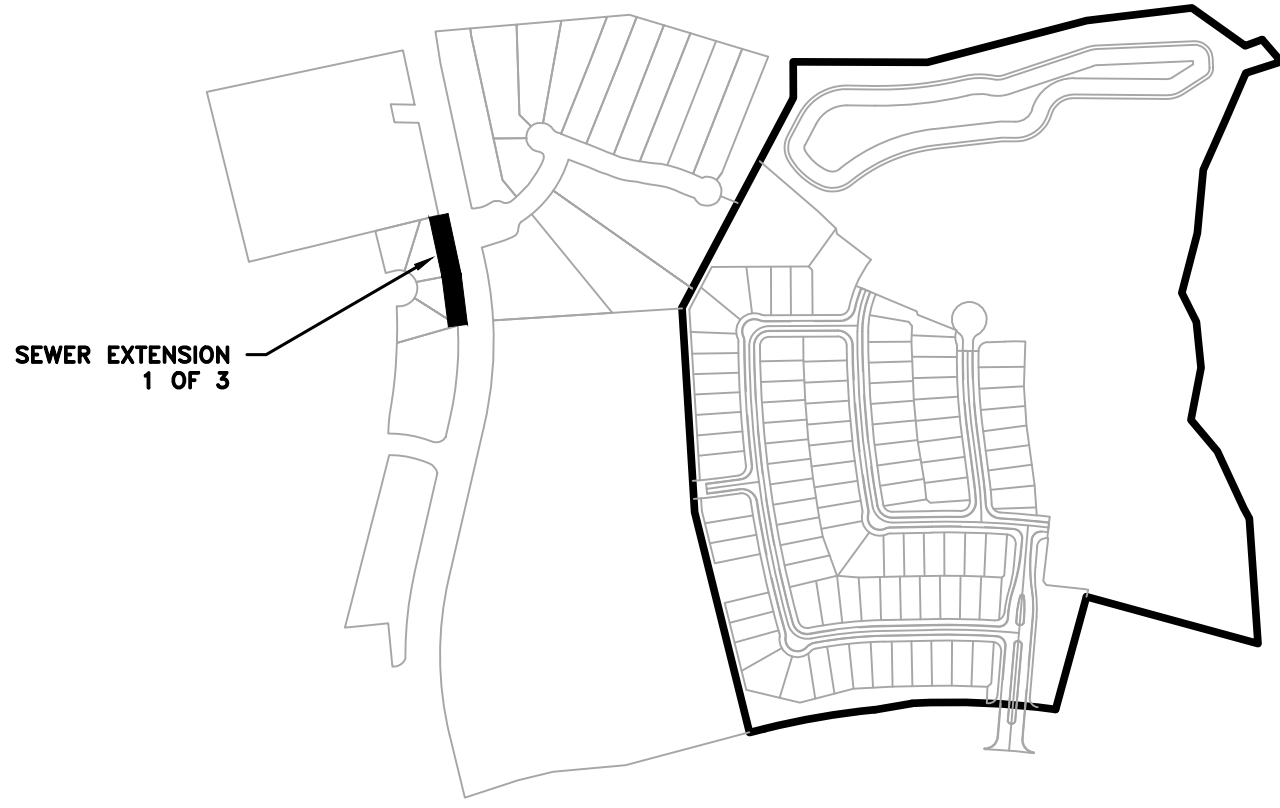
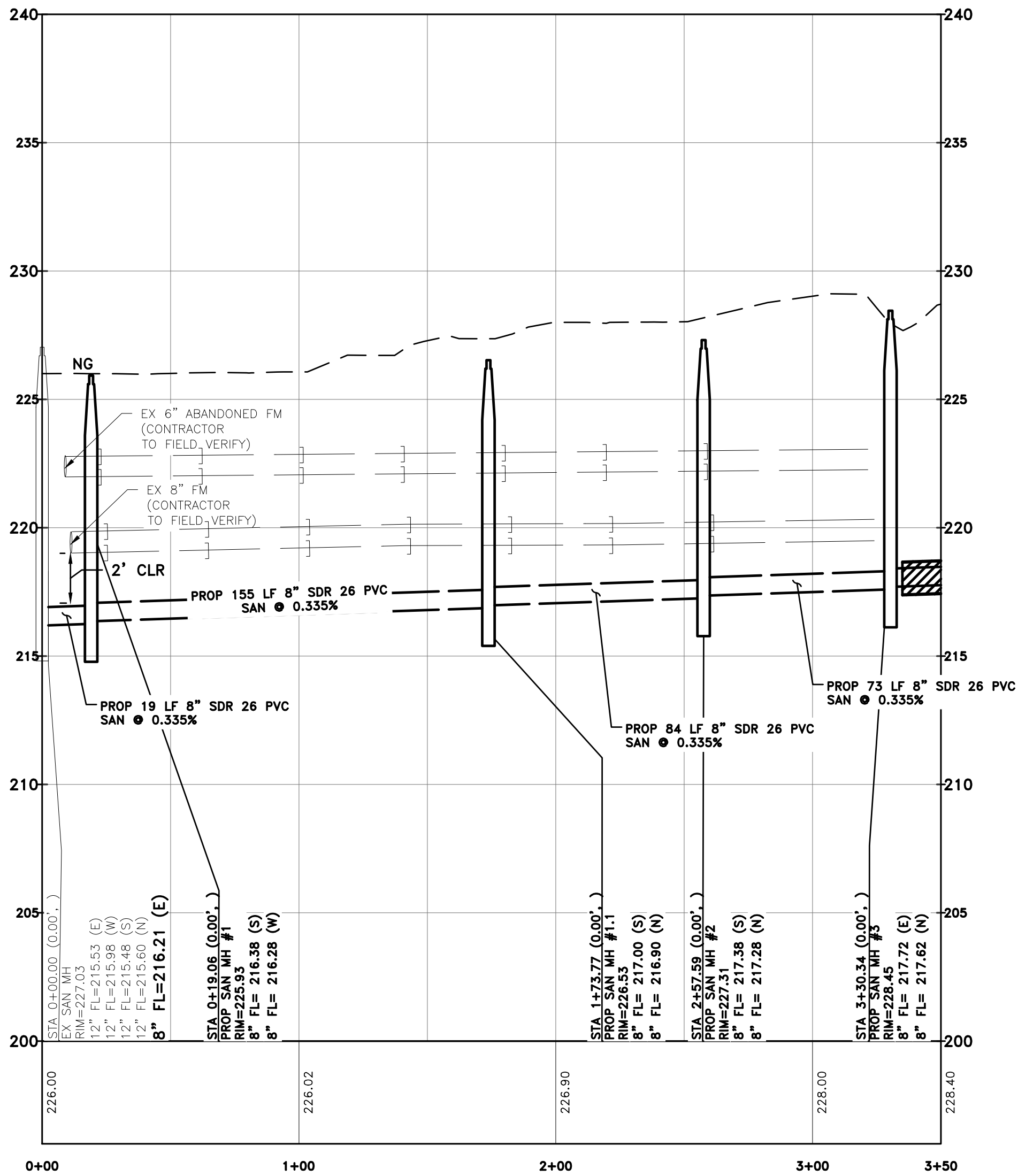
DATE

03/27/2025

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

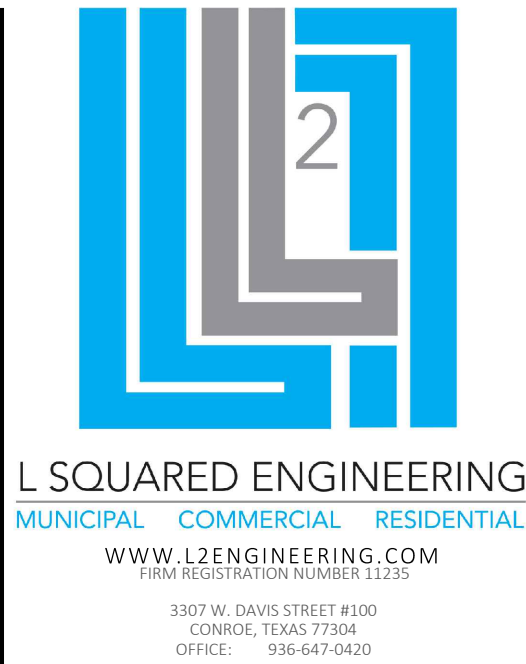


SEWER EXTENSION PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



NOTES:

1. WATER AND SANITARY SHALL MAINTAIN 9' SEPARATION HORIZONTAL SEPARATION & 2' VERTICAL SEPARATION.
2. WATERLINES, INCLUDING SERVICE LINES, MUST ALWAYS CROSS OVER SANITARY SEWER LINES AND SERVICE LEADS, UNLESS SPECIFICALLY SHOWN, LABELED, AND APPROVED OTHERWISE. ALL CROSSINGS MUST BE PER TCEQ REQUIREMENTS.
3. ALL WATERLINE FITTINGS, APPURTENANCES, LEADS AND METER BOXES ARE SHOWN AS A GRAPHICAL REPRESENTATION ONLY AND NOT DRAWN TO SCALE.
4. ALL WATERLINES TO MAINTAIN A MINIMUM OF 5' COVER.
5. MANHOLES WILL BE LOCATED A MINIMUM OF 6" ABOVE FINISHED GRADE.
6. THE PROPOSED CONNECTION OF THE SANITARY SEWER LINE TO THE SANITARY SEWER MANHOLE SHALL BE BY MEANS OF CORE AND BOOT AT SPECIFIED FLOWLINE. THE OPENING IN THE SIDE OF THE MANHOLES SHALL NOT BE MORE THAN 3-INCHES NOR LESS THAN 1-INCH IN DIAMETER THAN THE OUTSIDE DIAMETER FOR THE PROPOSED PIPE. THE PROPOSED PIPE SHALL NOT PROTRUDE MORE THAN 3-INCHES PAST THE INSIDE FACE OF THE MANHOLE WALL. FILL THE ENTIRE VOID AROUND THE PROPOSED PIPE WITH NON-SHRINK WATERPROOF GROUT. SLOPE AT INVERT OF MANHOLE SHALL BE CONSTRUCTED UNDER POINT OF SANITARY SEWER CONNECTION. BACKFILL THE EXCAVATION AROUND THE EXISTING MANHOLE WITH CEMENT-SAND. CONNECTION TO EXISTING PUBLIC SANITARY SEWER MANHOLE SHALL BE COMPLETED BY THE CITY OF MONTGOMERY AT THE OWNER'S EXPENSE.

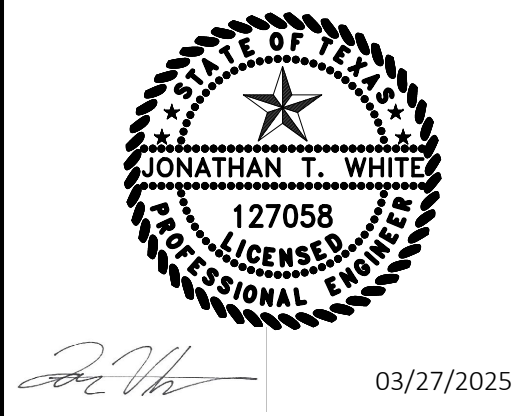


CLIENT INFORMATION
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HOUSTON, TX 77042
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
SEWER EXTENSION STA 0+00 TO 3+50

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

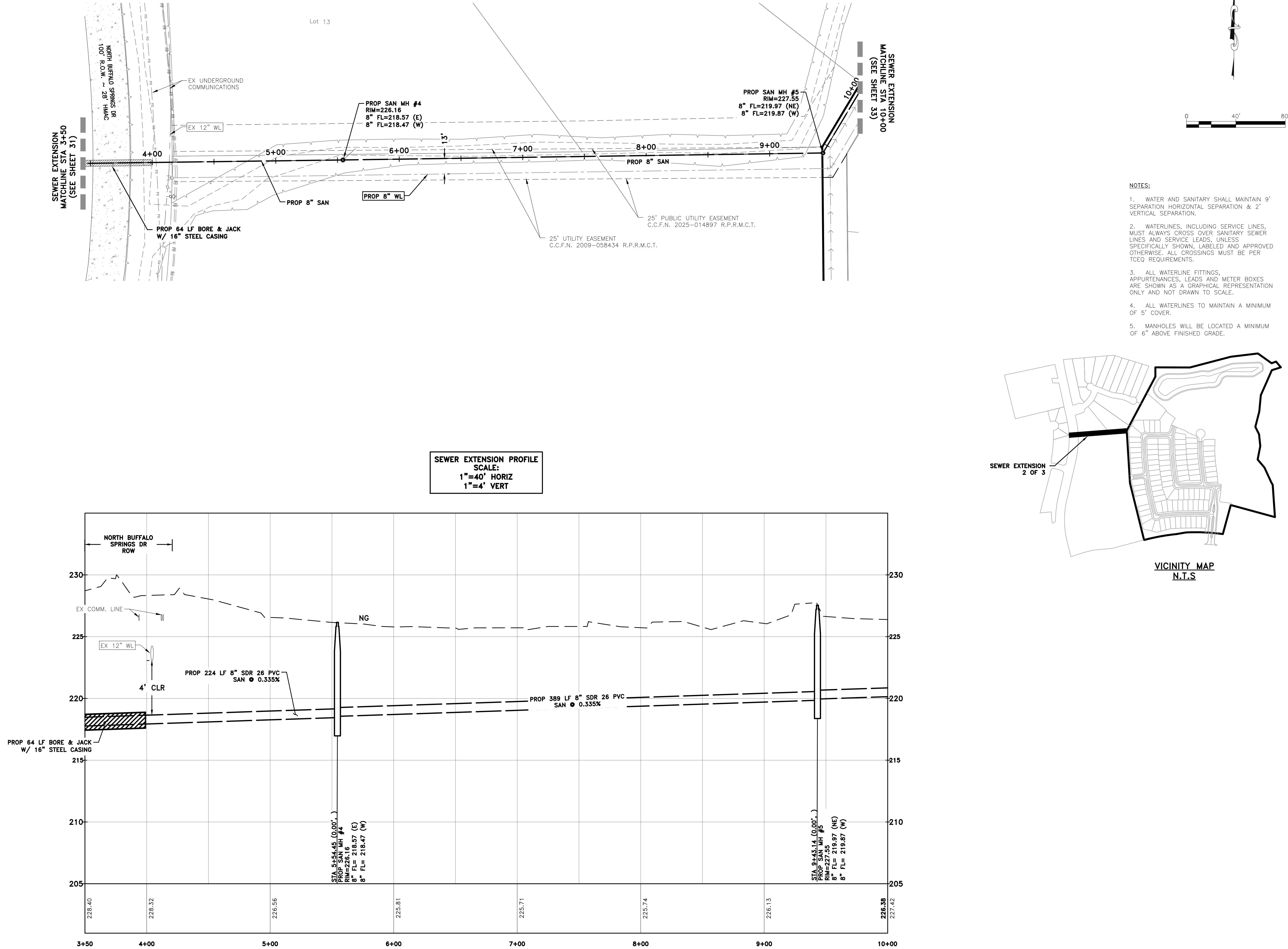
DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 40' (24x36) 1" = 80' (11x17)	SHEET	31



CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

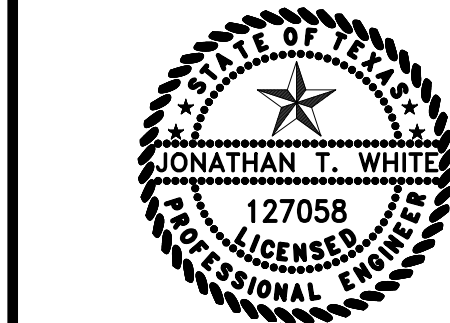
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*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

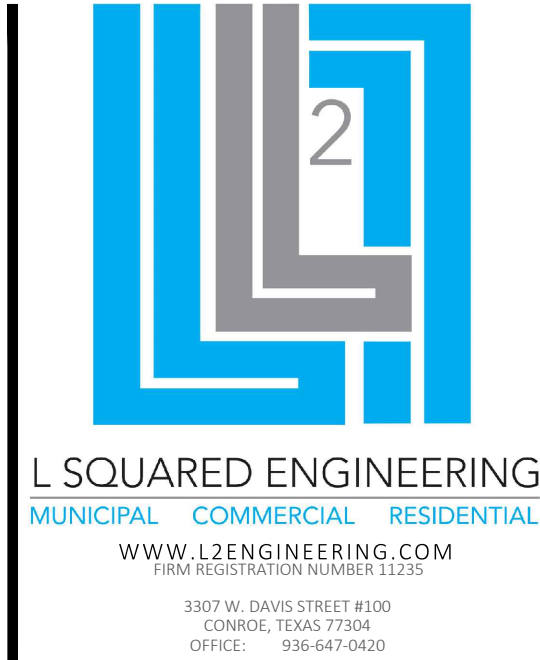


CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

DATE



03/27/2025



CLIENT INFORMATION
TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77042
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

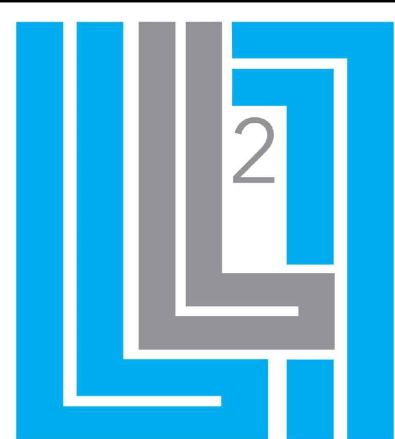
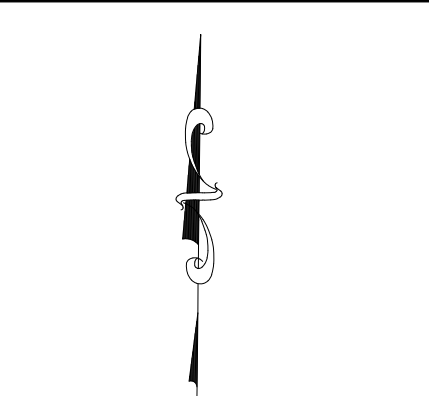
LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
SEWER EXTENSION STA 3+50 TO 10+00

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	SHEET		
1" = 40' (24x36)	32		
1" = 80' (11x17)			

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

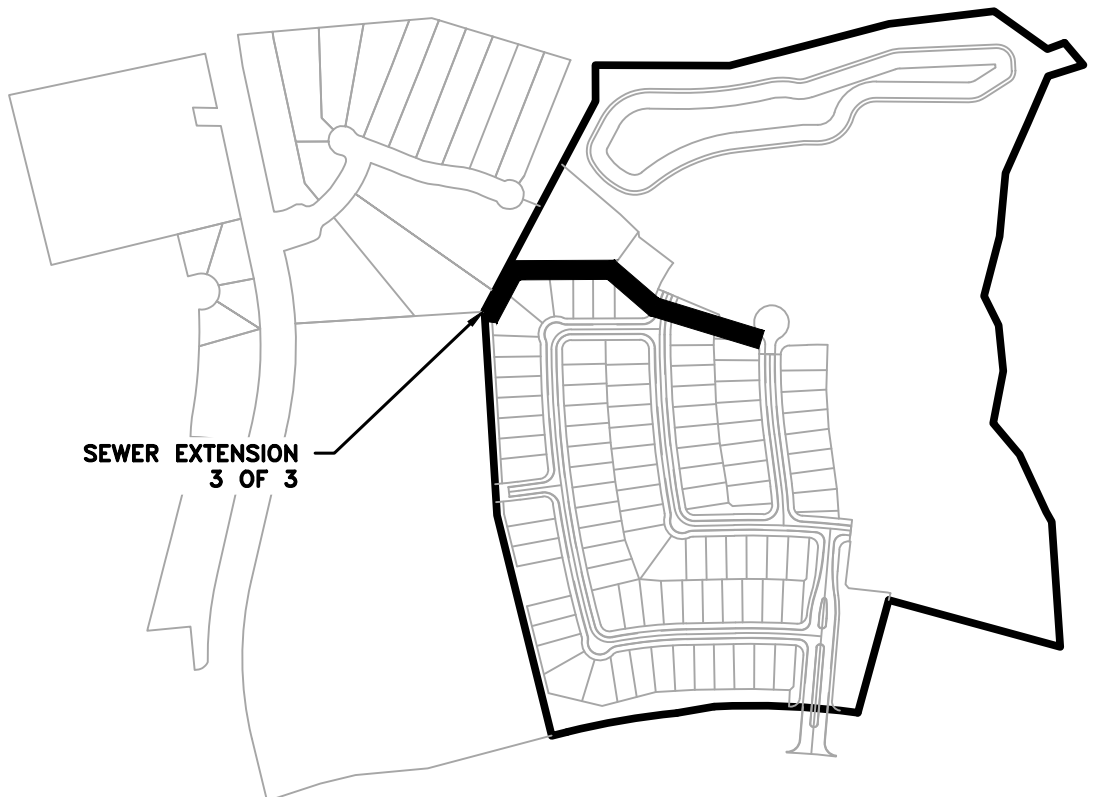
1. WATER AND SANITARY SHALL MAINTAIN 9" SEPARATION HORIZONTAL SEPARATION & 2' VERTICAL SEPARATION.
2. WATERLINES, INCLUDING SERVICE LINES, MUST ALWAYS CROSS OVER SANITARY SEWER LINES AND SERVICE LEADS, UNLESS SPECIFICALLY SHOWN, LABELED AND APPROVED OTHERWISE. ALL CROSSINGS MUST BE PER TCEQ REQUIREMENTS.
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5. MANHOLES WILL BE LOCATED A MINIMUM OF 6" ABOVE FINISHED GRADE.



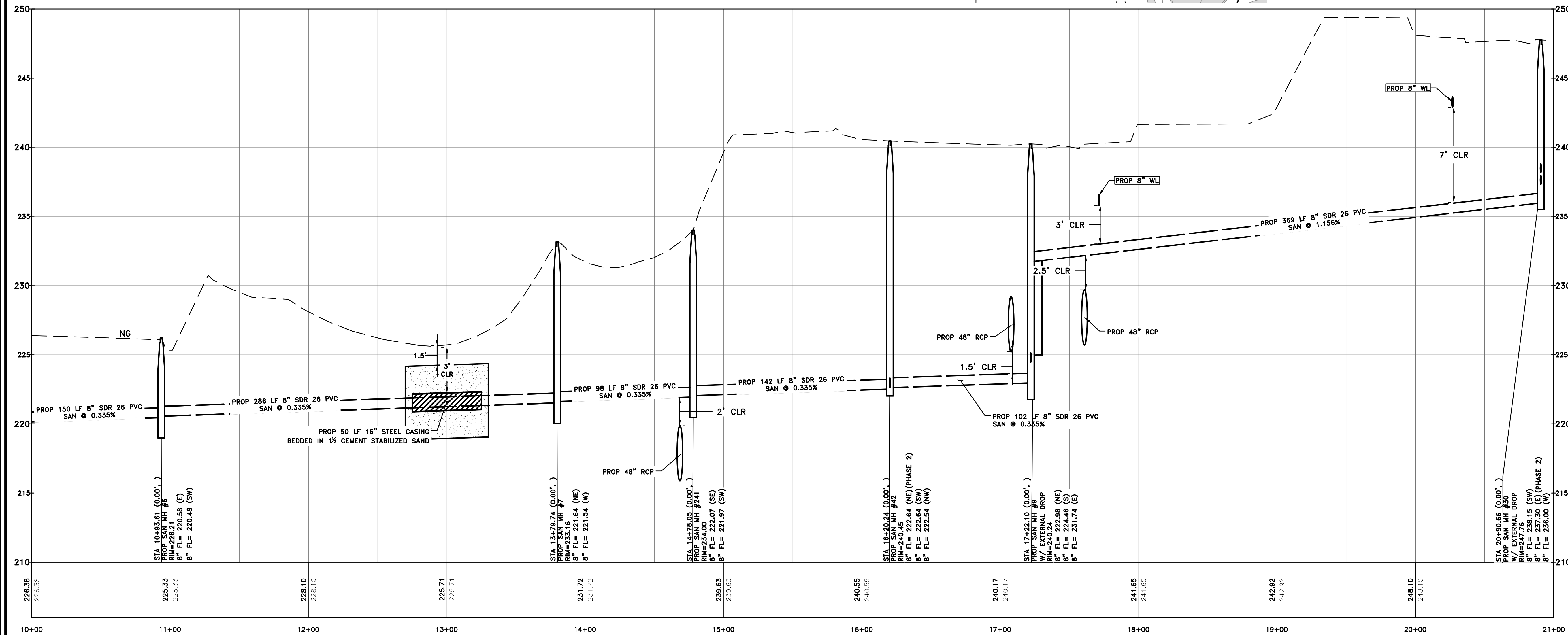
L SQUARED ENGINEERING
MUNICIPAL COMMERCIAL RESIDENTIAL
WWW.L2ENGINEERING.COM
FIRM REGISTRATION NUMBER 11235
3307 W. DAVIS STREET #100
CONROE, TEXAS 77304
OFFICE: 936-647-0420

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HOUSTON, TX 77042

PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356



VICINITY MAP
N.T.S



CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

DATE _____

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

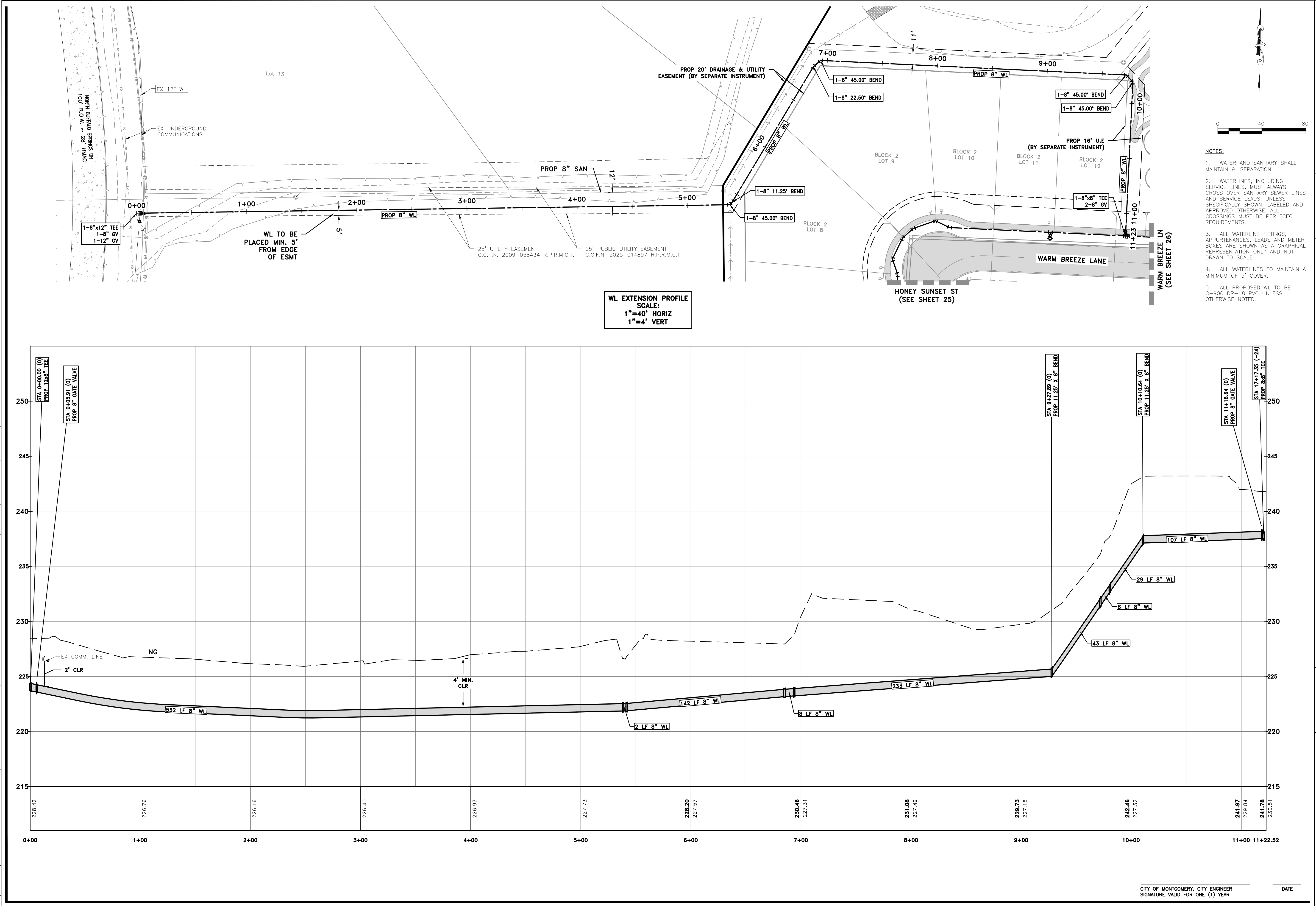
DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE		SHEET	
1" = 40' (24x36)		33	
1" = 80' (11x17)			



03/27/2025

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\25 WATER EXTENSION P&P.DWG Mar. 27, 2025-2:03 PM BRIAN STROKA



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MUNICIPAL COMMERCIAL RESIDENTIAL
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3307 W. DAVIS STREET #100
CONROE, TEXAS 77384
OFFICE: 281-467-0602

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HOUSTON, TX 77042
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

WATERLINE EXTENSION 0+00 TO 12+00

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

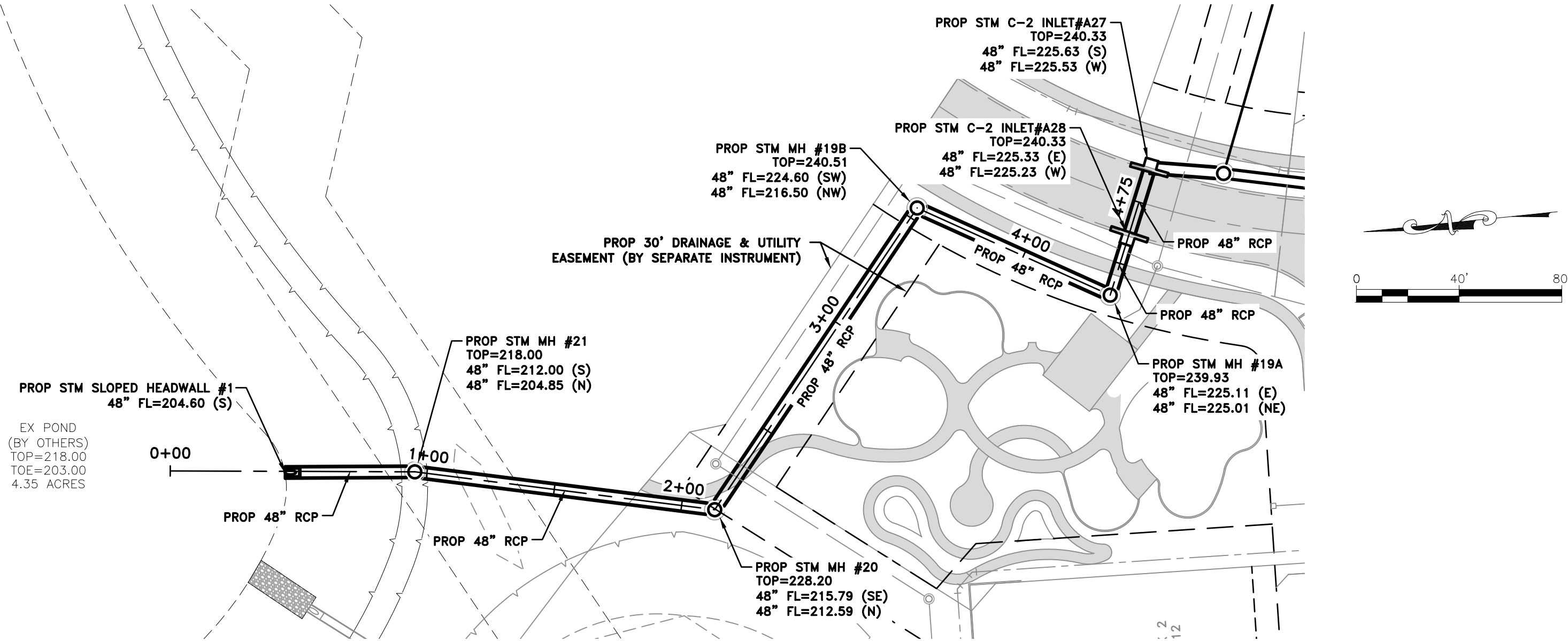
DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 40' (24x36) 1" = 80' (11x17)	SHEET	34

JONATHAN T. WHITE
127058
LICENSED PROFESSIONAL ENGINEER

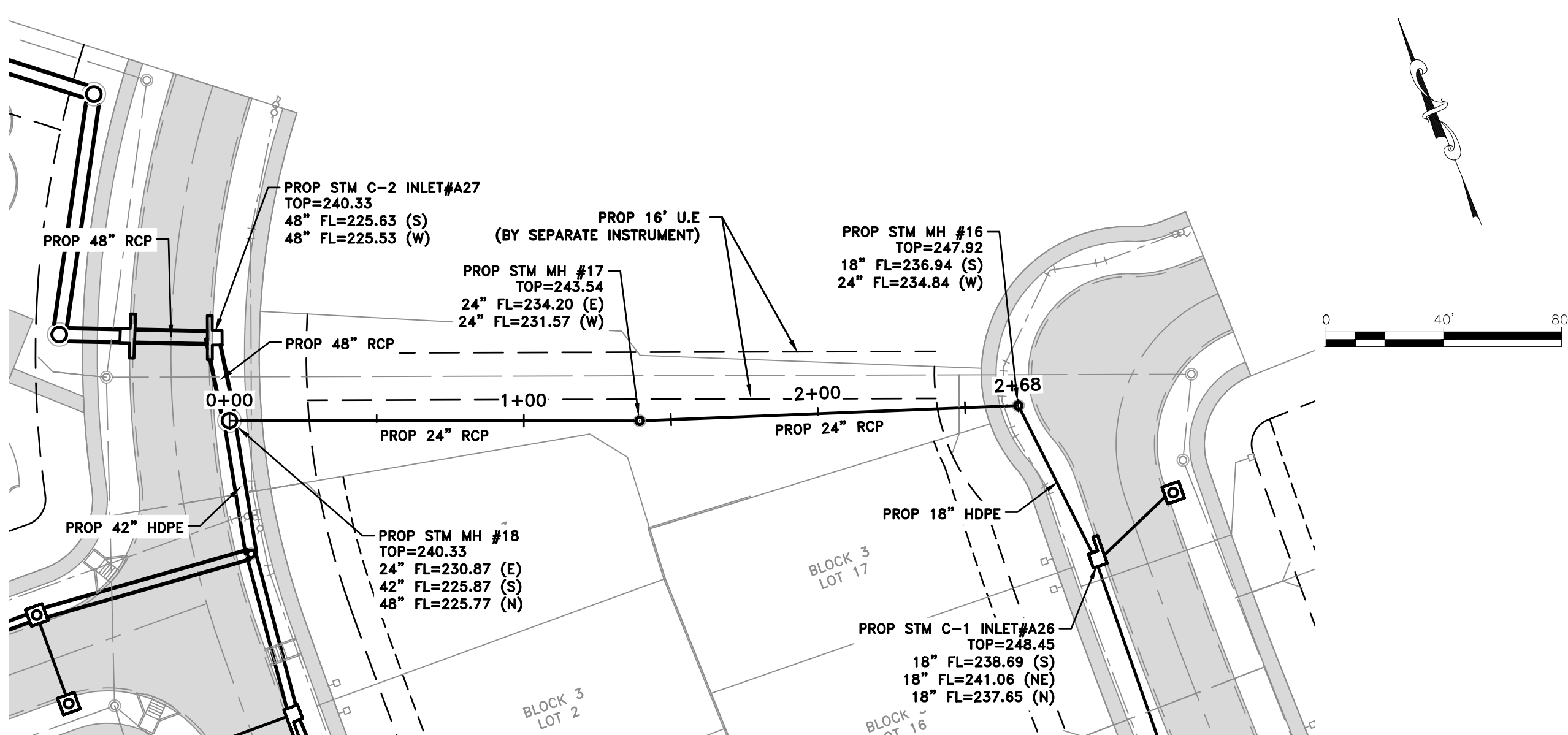
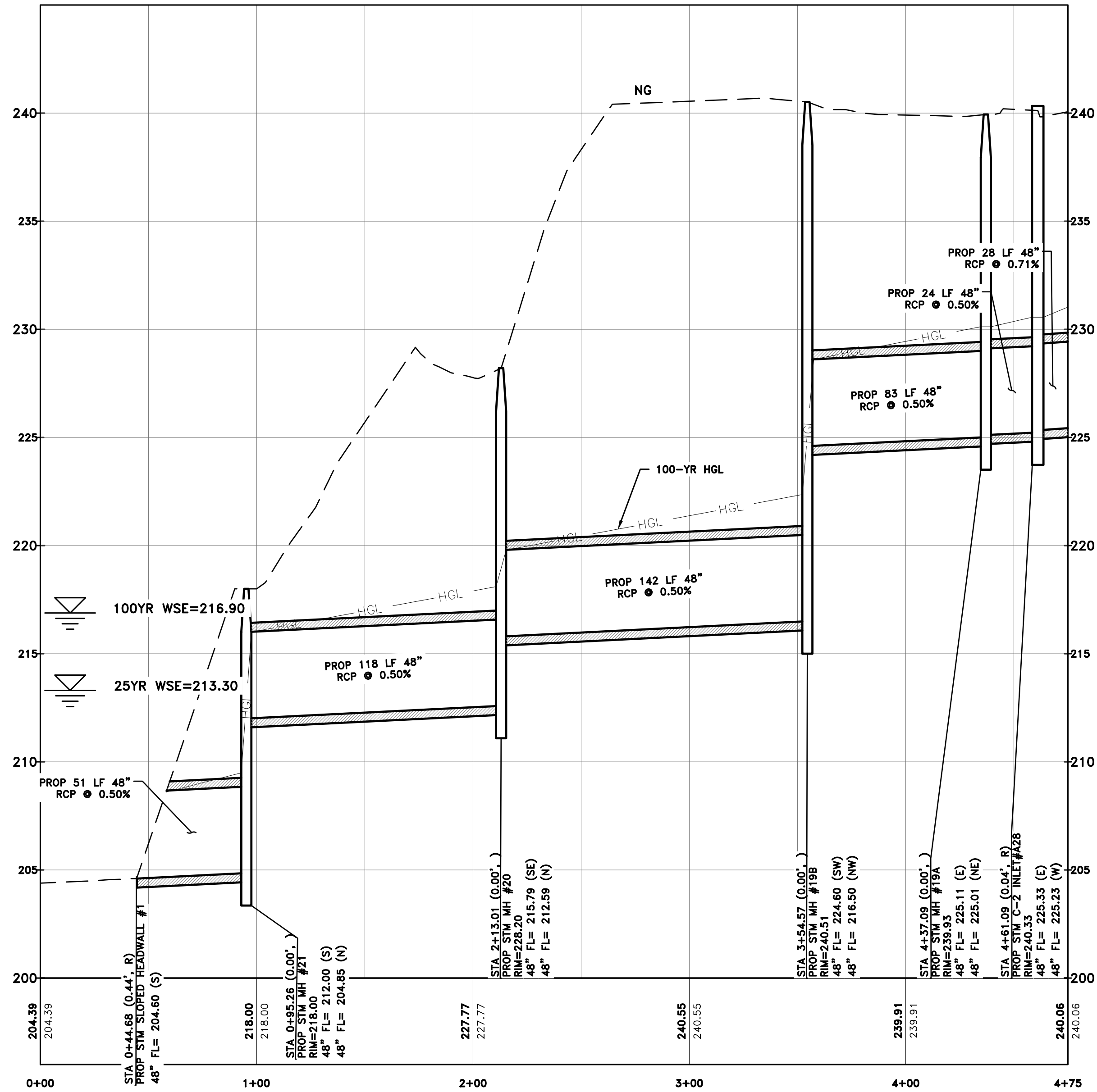
03/27/2025

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

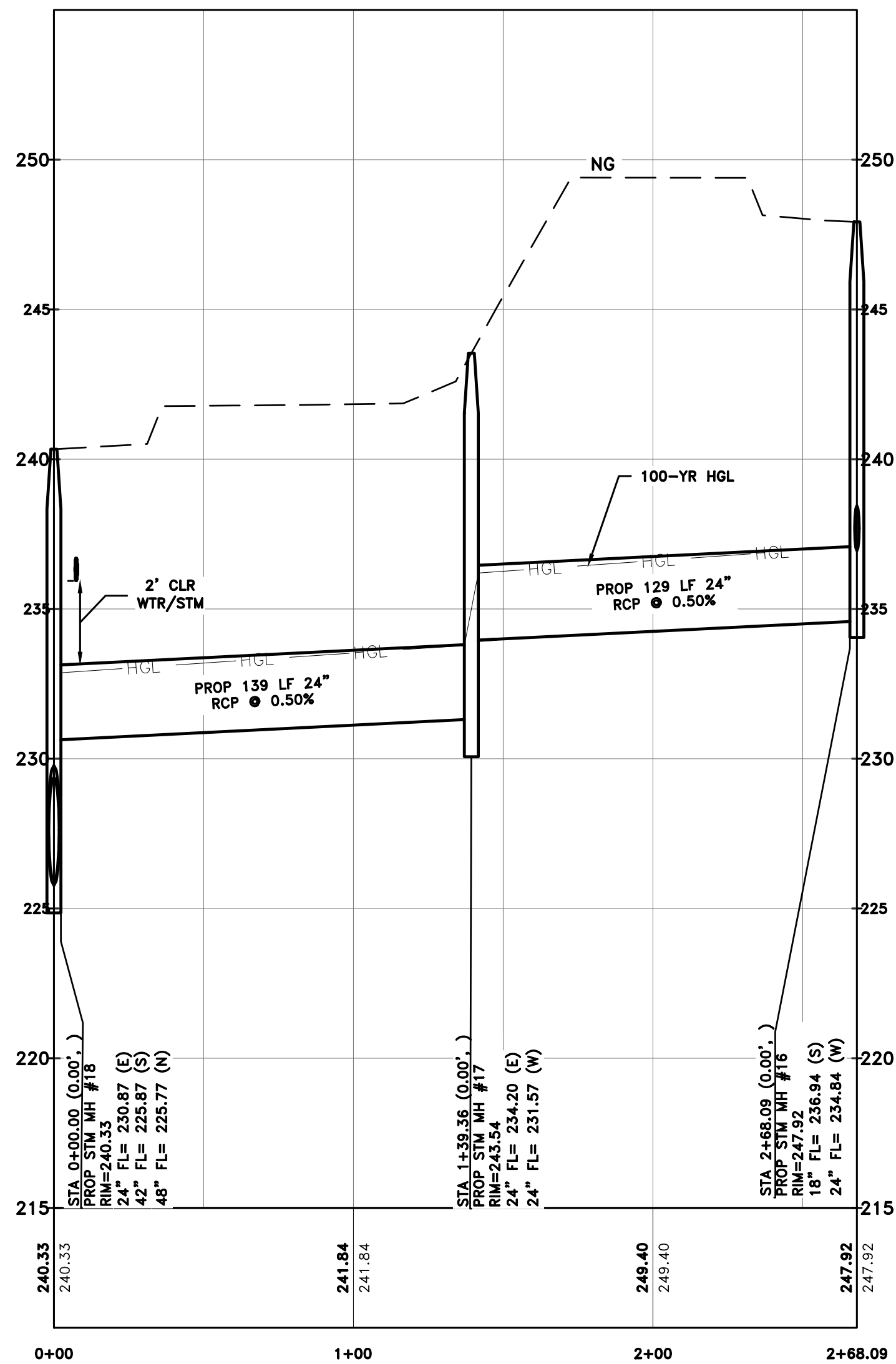
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STORM 1-1 PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT

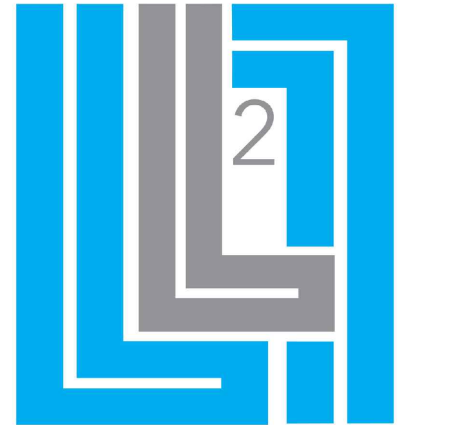


STORM 2-2 PROFILE
SCALE:
1"=40' HORIZ
1"=4' VERT



CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

DATE



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MUNICIPAL COMMERCIAL RESIDENTIAL
WWW.L2ENGINEERING.COM
3307 W. DAVIS STREET #100
CONROE, TEXAS 77384
OFFICE: 281-467-0600

CLIENT INFORMATION

TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77042

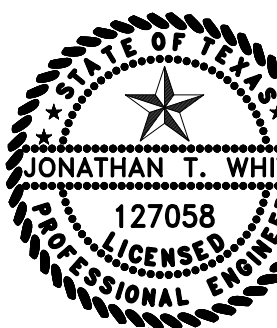
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

STORM PLAN & PROFILE

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 40' (24x36) 1" = 80' (11x17)	SHEET	35



03/27/2025

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

L:\SHARED\L2 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\24 VERTICAL CURVE TABLE.DWG Mgr. 27, 2025-2:04 PM BRIAN STROKA

AUGUST WIND LANE 0+00 TO 7+00

SAN LEAD TABLE				
STATION & OFFSET	LENGTH	START FL	END FL	
1+71.35, 40.91	18.91	264.45	264.26	
1+87.17, -41.00	62.21	261.89	261.27	
2+78.53, 41.00	22.00	263.87	263.65	
3+04.55, -41.00	60.11	261.26	260.66	
3+88.03, 41.24	21.56	263.28	263.06	
4+14.55, -41.00	60.87	260.66	260.06	
4+95.26, 41.00	19.00	262.67	262.48	
5+36.43, -41.00	61.19	259.66	259.05	
6+00.42, 41.01	20.75	260.65	260.45	
6+47.71, -53.04	75.55	256.99	256.24	
6+91.29, -62.17	101.28	255.74	254.72	

ROCKY CREEK LANE 5+00 TO 10+00

SAN LEAD TABLE			
STATION & OFFSET	LENGTH	START FL	END FL
7+21.39, -41.01	19.01	253.30	253.11
8+39.30, -41.00	19.00	252.01	251.82
9+52.80, -41.00	18.89	250.75	250.56

HONEY SUNSET STREET 7+00 TO 15+50

SAN LEAD TABLE				
STATION & OFFSET	LENGTH	START FL	END FL	
7+66.99, -41.00	62.74	253.74	253.11	
8+25.08, 40.73	17.79	254.69	254.51	
9+42.06, 41.00	19.00	251.60	251.41	
9+83.03, -41.00	63.89	248.01	247.37	
10+57.45, 41.00	17.92	248.54	248.36	
11+71.52, -40.62	64.00	243.18	242.54	
11+72.83, 41.00	17.61	245.48	245.30	
12+69.77, -41.00	63.52	240.41	239.78	
12+88.22, 41.00	19.00	242.42	242.23	
13+77.78, -41.00	64.88	238.19	237.54	
14+03.61, 41.00	17.07	240.44	240.27	
14+95.73, -40.97	63.60	237.09	236.45	
15+45.44, -63.75	90.36	236.61	235.70	

CEDAR PARK DRIVE 10+00 TO 17+00

SAN LEAD TABLE			
STATION & OFFSET	LENGTH	START FL	END FL
10+19.88, -59.72	14.64	249.88	249.72
10+81.25, -41.00	20.11	248.66	248.46
11+04.17, 40.99	61.16	246.09	245.48
11+22.45, 40.99	60.74	245.64	245.03
11+92.00, -41.00	21.83	245.92	245.70
12+29.31, 41.00	60.61	242.99	242.39
13+02.75, -41.00	19.00	243.17	242.98
13+45.30, 41.00	61.70	240.12	239.50
14+13.50, -41.00	20.99	240.43	240.22
14+61.30, 41.01	61.58	237.24	236.63
15+99.67, 42.19	67.58	234.35	233.67

WARM BREEZE LANE 15+50 TO 19+00

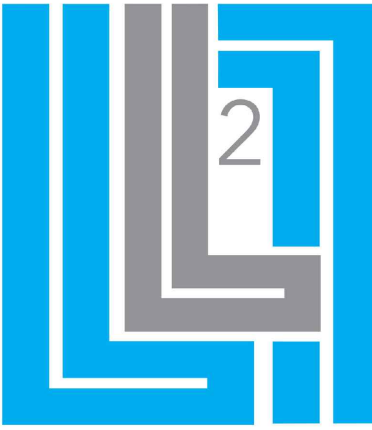
SAN LEAD TABLE			
STATION & OFFSET	LENGTH	START FL	END FL
15+54.33, 32.15	15.10	239.28	239.13
15+97.35, -41.00	63.00	236.14	235.51
17+08.35, -41.00	62.99	235.07	234.44
17+95.60, 35.61	13.63	235.43	235.29

WESTWOOD PASS LANE 0+00 TO 5+50

SAN LEAD TABLE			
STATION & OFFSET	LENGTH	START FL	END FL
1+14.86, -40.97	63.95	249.75	249.11
1+33.43, 41.00	20.66	251.44	251.24
2+32.41, -41.00	62.31	247.35	246.73
2+41.69, 41.00	19.56	249.22	249.02
3+44.81, -40.99	63.22	245.04	244.41
3+56.89, 41.00	19.00	246.85	246.66
4+52.84, -40.99	65.36	242.82	242.17
4+78.22, 41.00	17.03	244.43	244.26
5+43.75, -53.34	19.90	243.76	243.56

CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

DATE




L SQUARED ENGINEERING
MUNICIPAL COMMERCIAL RESIDENTIAL
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PROF. REGISTRATION NUMBER 13225
3307 W. DAVIS STREET #100
CONROE, TEXAS 77384
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HOUSTON, TX 77042
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
SANITARY LEAD TABLE

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

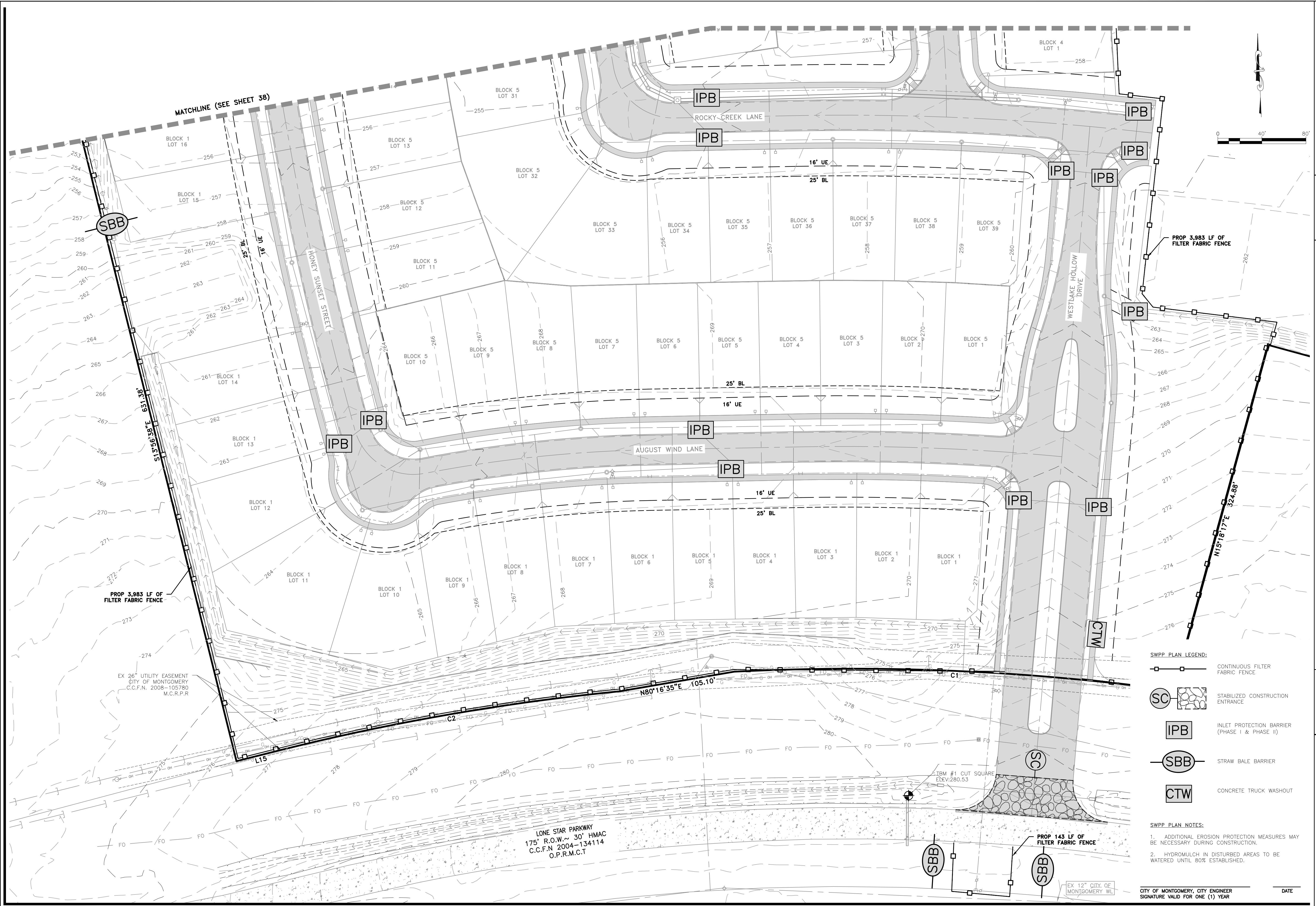
DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	SHEET		
AS NOTED	36		



JONATHAN T. WHITE
127058
LICENSED PROFESSIONAL ENGINEER
03/27/2025

*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

L:\SHARED\12. ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\22 SWPP PLAN.DWG Mar. 27, 2025-2:05 PM BRIAN STROKA





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MUNICIPAL COMMERCIAL RESIDENTIAL
WWW.LZENGINERING.COM
PROFESSIONAL ENGINEER
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CONROE, TEXAS 77384
OFFICE: 281-467-0602

CLIENT INFORMATION
TAYLOR MORRISON
RICHARD BAUTISTA
3250 BRIARPARK DR #300
HOUSTON, TX 77062
PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1


WATER, SEWER, DRAINAGE & PAVING

ON BEHALF OF MC MUC 179

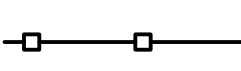
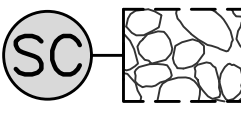



SWPP PLAN 1 OF 3

DRAWING ISSUE			
#	DATE	BY	* COMMENT
0	03/27/25	JTW	FOR PERMIT

DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	1" = 40' (24x36) 1" = 80' (11x17)	SHEET	37

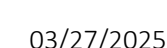


JONATHAN T. WHITE
127058
LICENSED PROFESSIONAL ENGINEER
03/27/2025

- SWPP PLAN LEGEND:**
-  CONTINUOUS FILTER FABRIC FENCE
 -  STABILIZED CONSTRUCTION ENTRANCE
 -  INLET PROTECTION BARRIER (PHASE I & PHASE II)
 -  STRAW BALE BARRIER
 -  CONCRETE TRUCK WASHOUT

- SWPP PLAN NOTES:**
- ADDITIONAL EROSION PROTECTION MEASURES MAY BE NECESSARY DURING CONSTRUCTION.
 - HYDROMULCH IN DISTURBED AREAS TO BE WATERED UNTIL 80% ESTABLISHED.
- CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR
- DATE

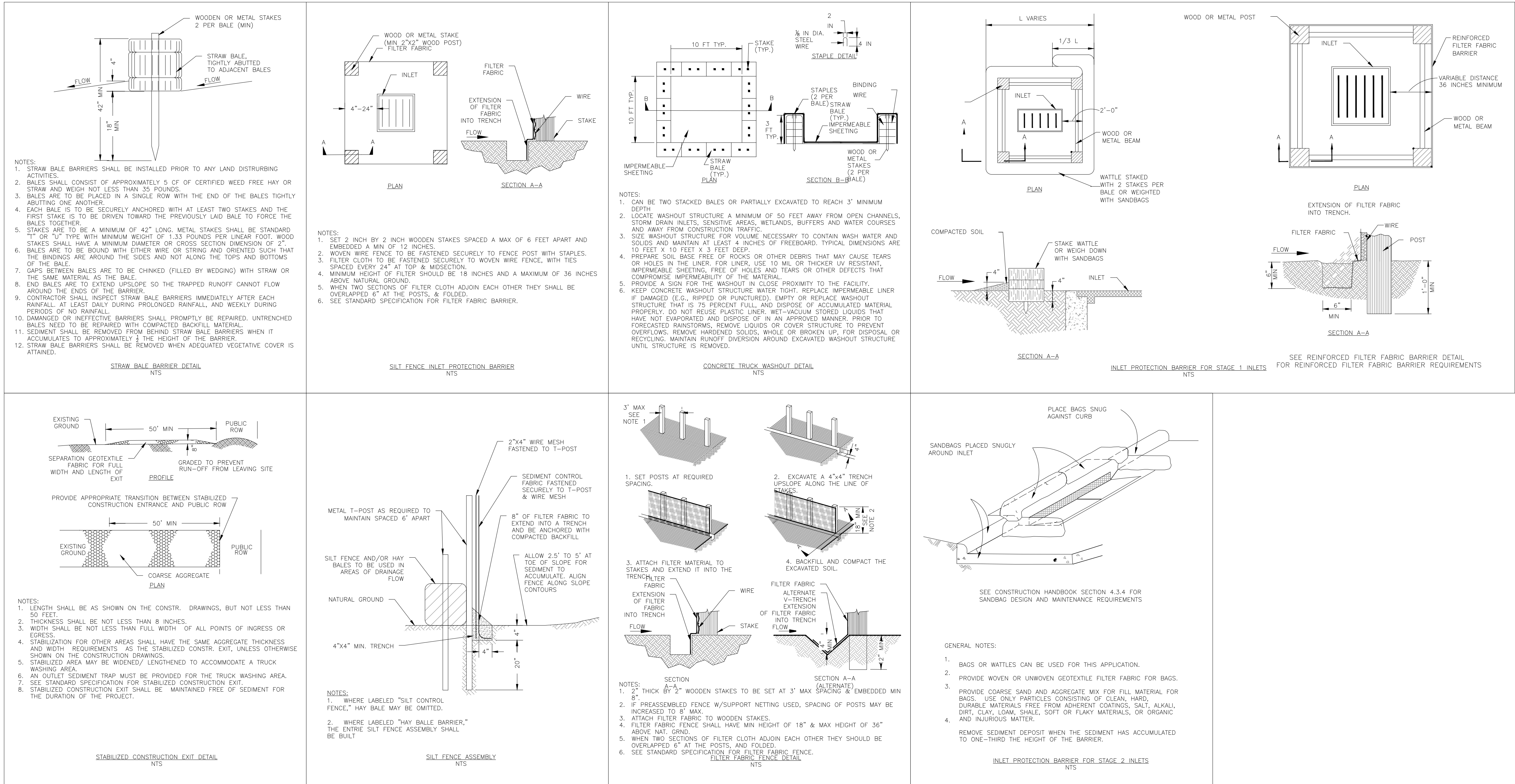
*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE





*PLANS NOT RELEASED FOR CONSTRUCTION UNLESS INDICATED ABOVE

L:\SHARED\12 ENGINEERING PROJECTS\ENGINEERING PROJECTS\10979 - LONESTAR PARKWAY RESIDENTIAL\03 CAD\DESIGN SET\PHASE 1\23 DETAILS.DWG Mor. 27, 2025-2:05 PM BRIAN STROKA



L SQUARED ENGINEERING
MUNICIPAL COMMERCIAL RESIDENTIAL
WWW.L2ENGINEERING.COM
3307 W. DAVIS STREET #100
CONROE, TEXAS 77384
OFFICE: 281-467-0902

CLIENT INFORMATION
TAYLOR MORRISON
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PROJECT ADDRESS
LONESTAR PARKWAY
MONTGOMERY, TX 77356

LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
SWPP DETAILS

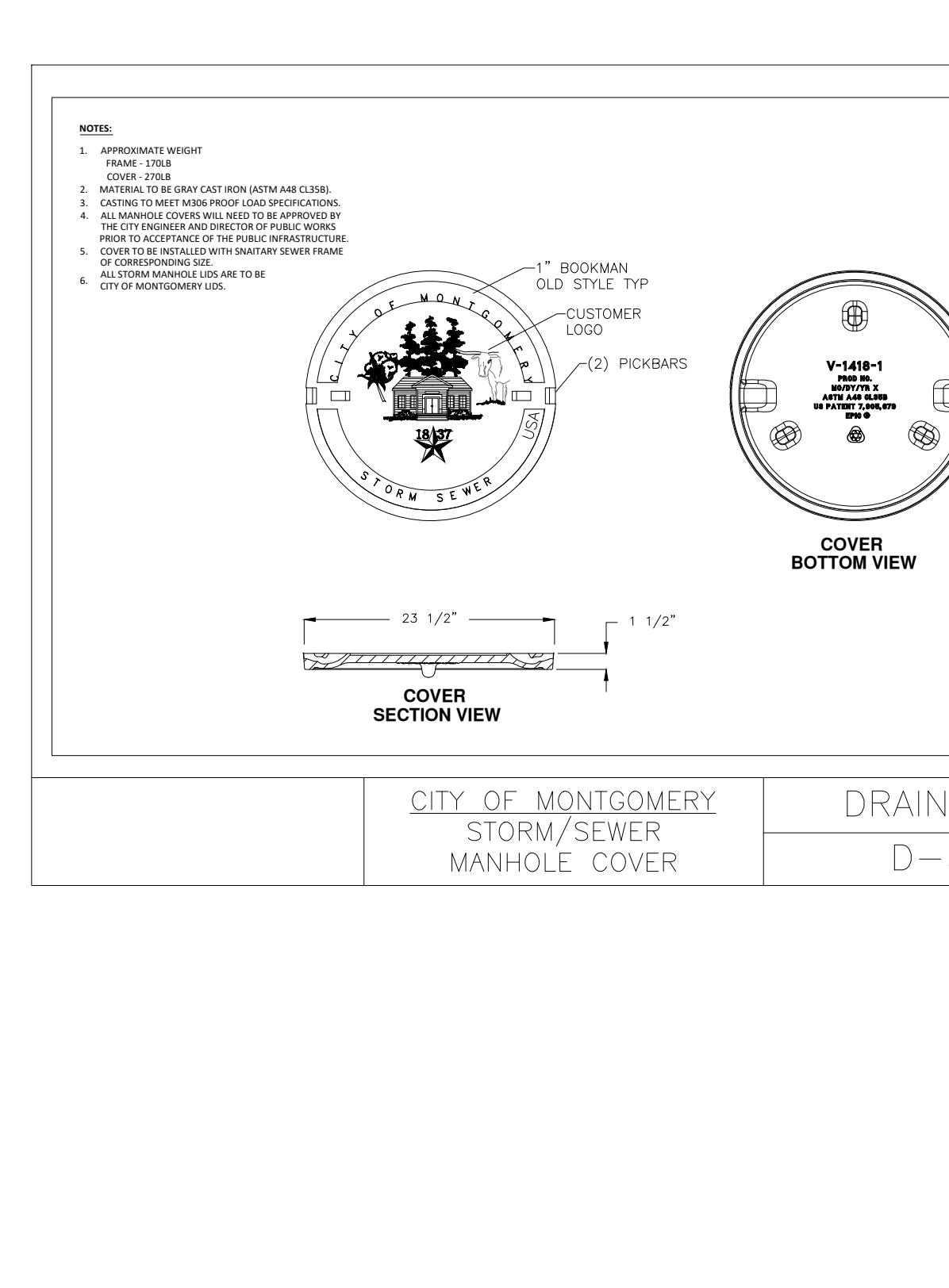
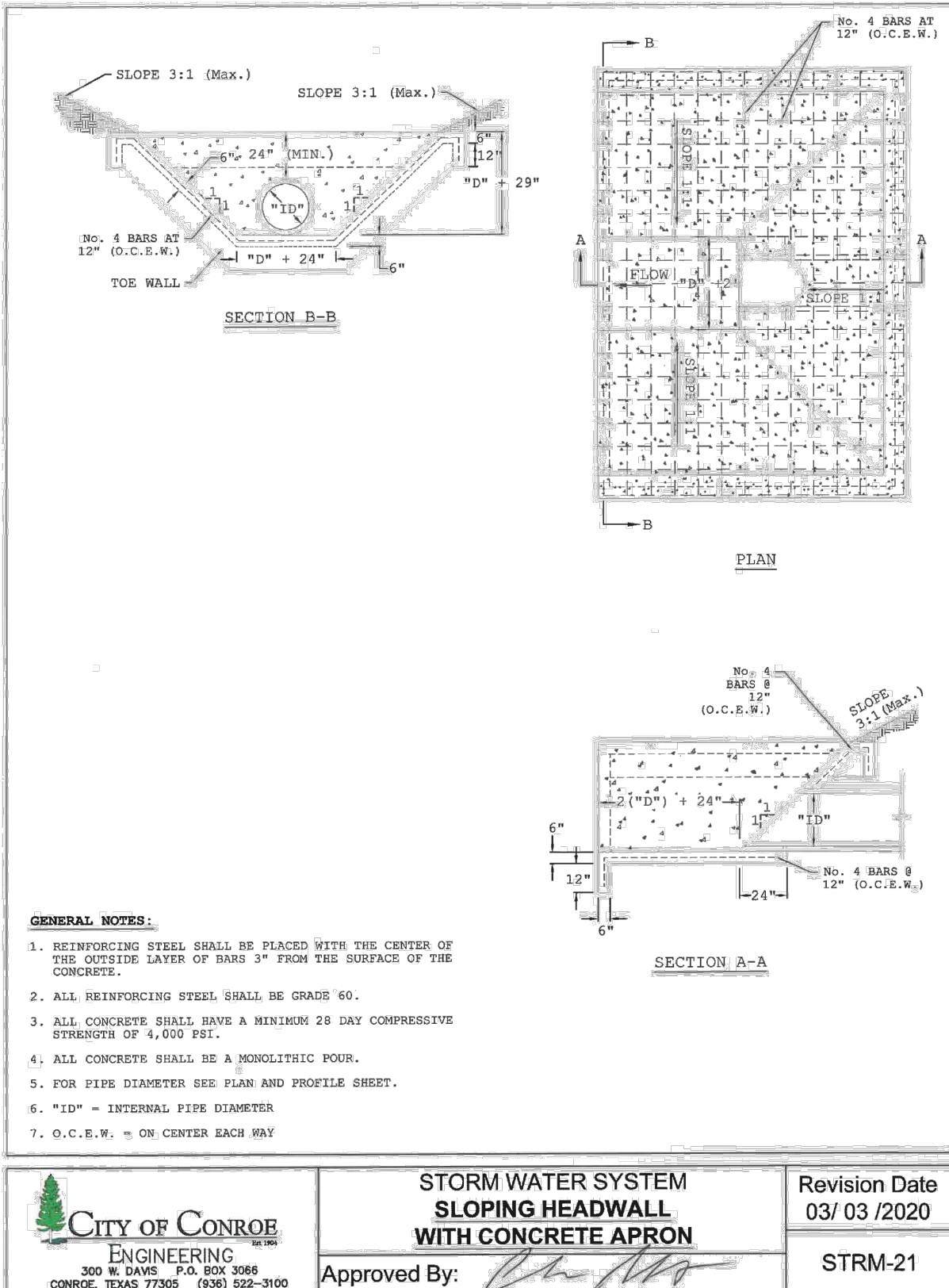
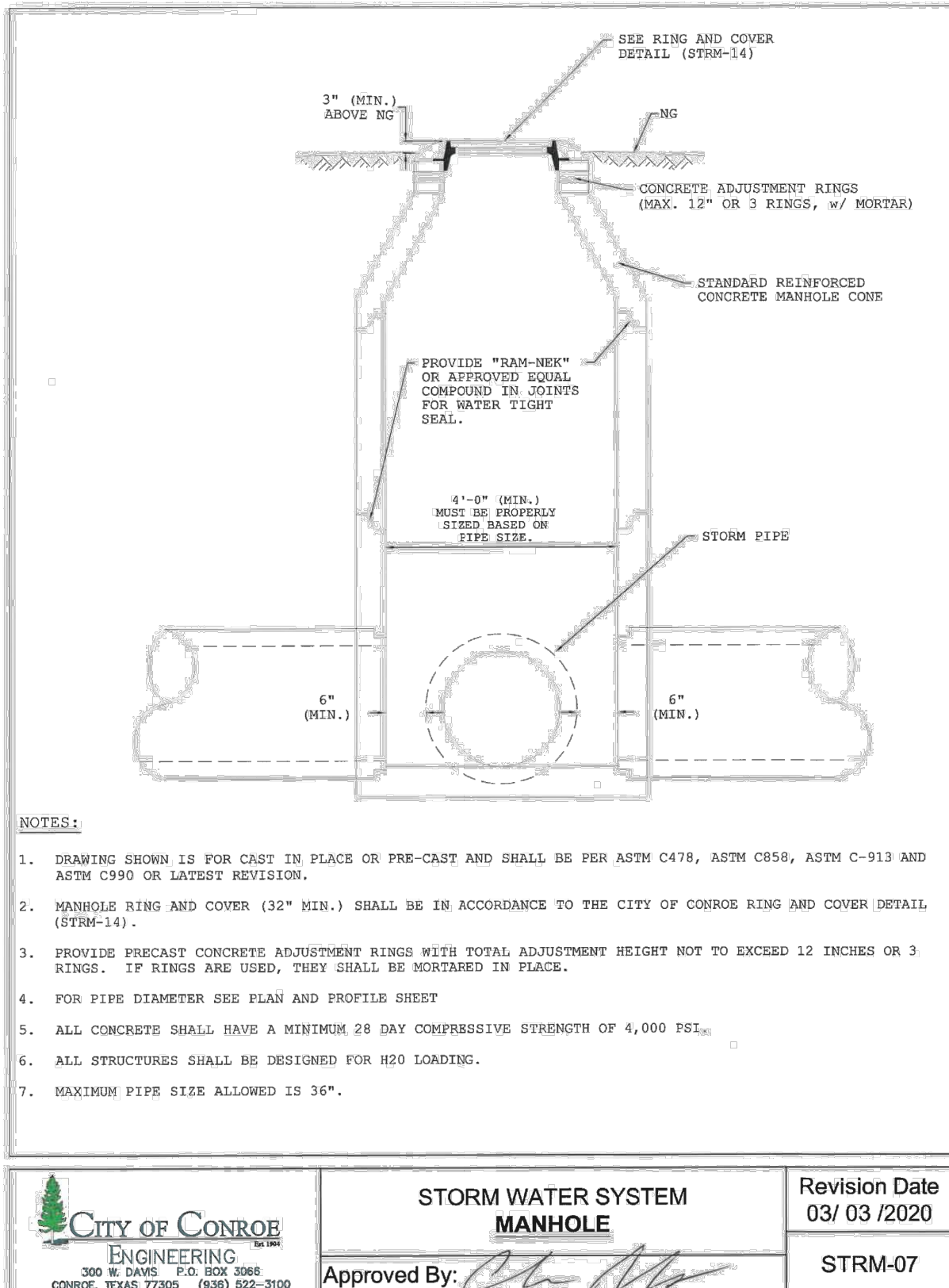
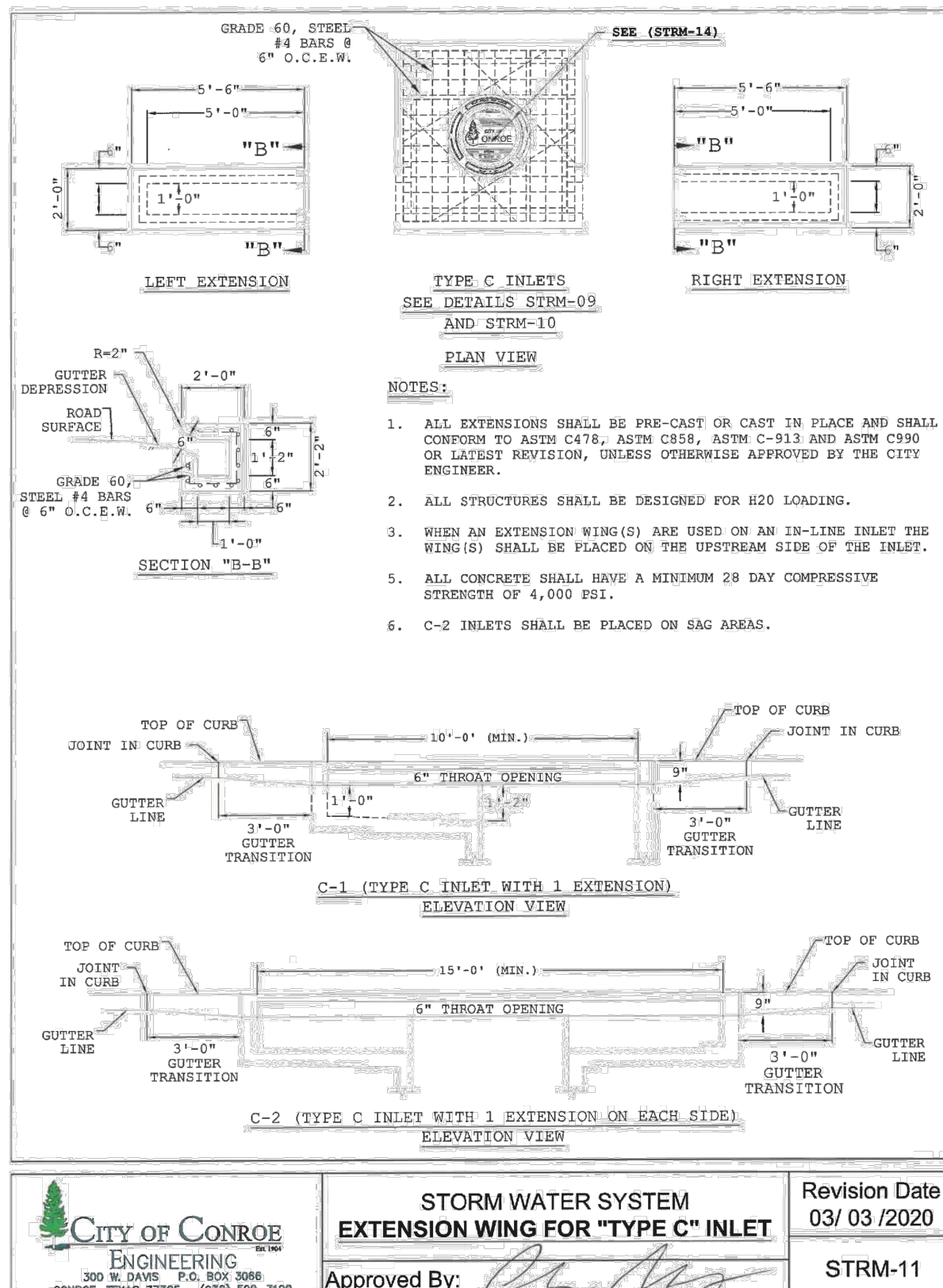
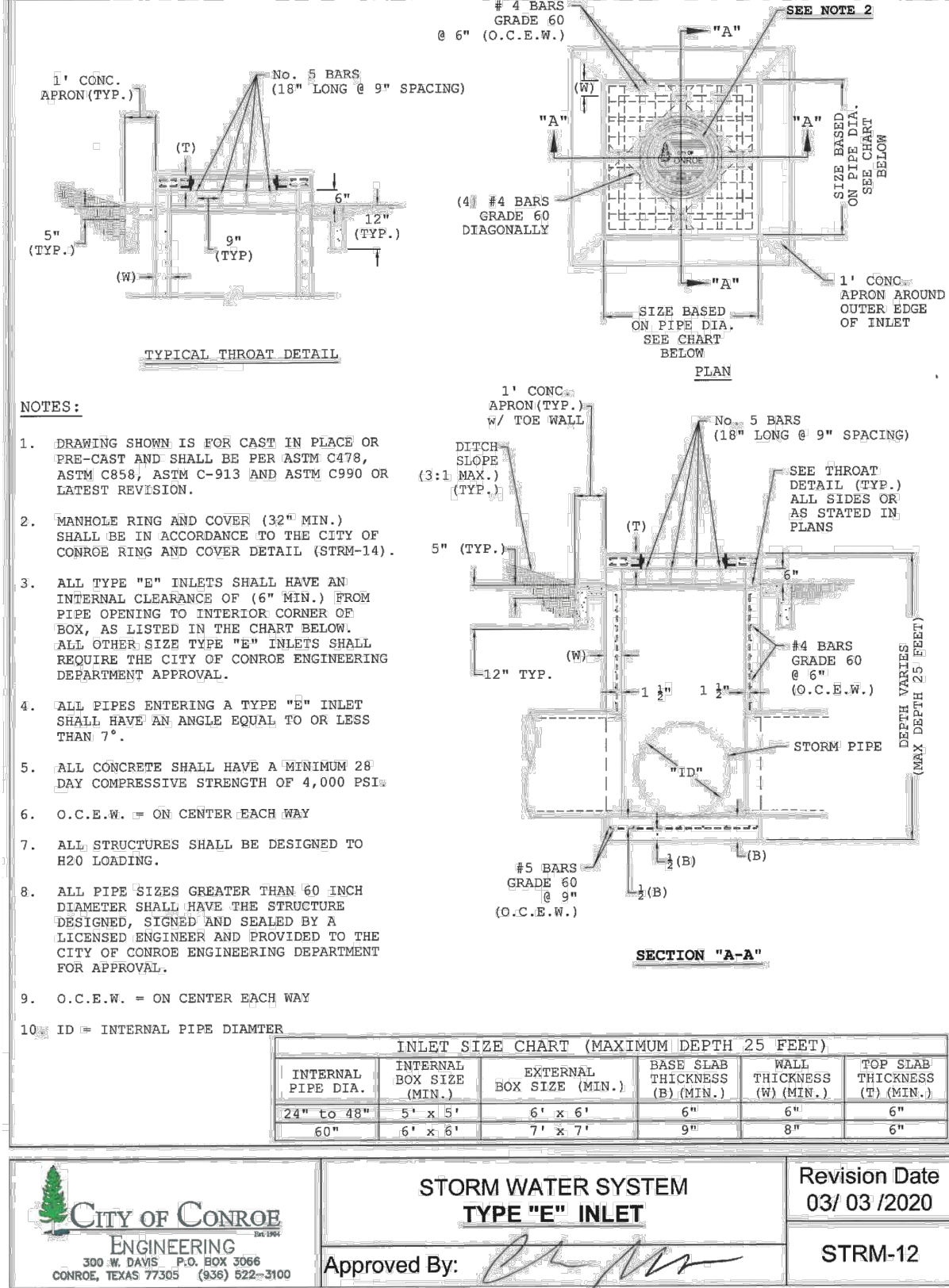
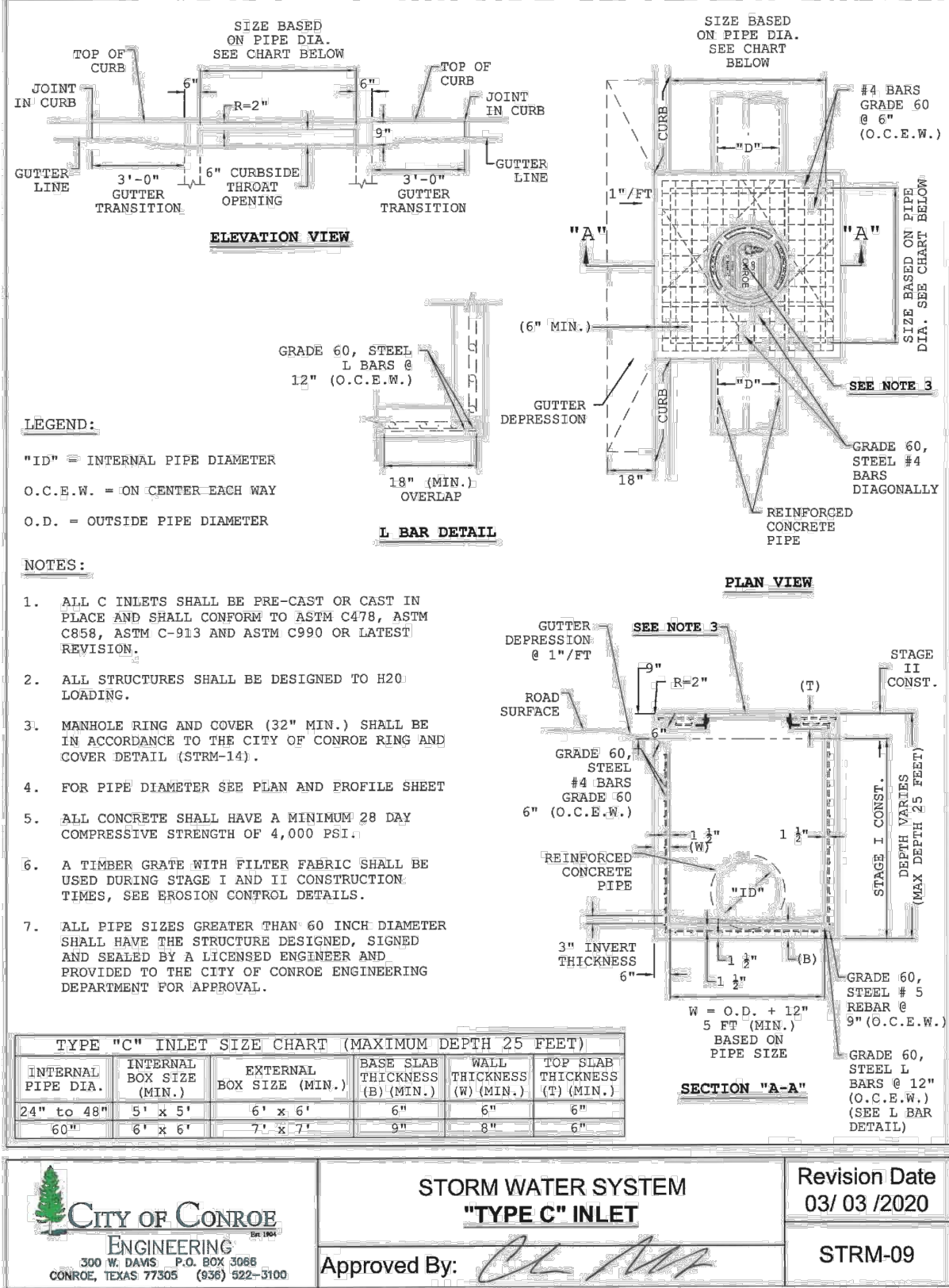
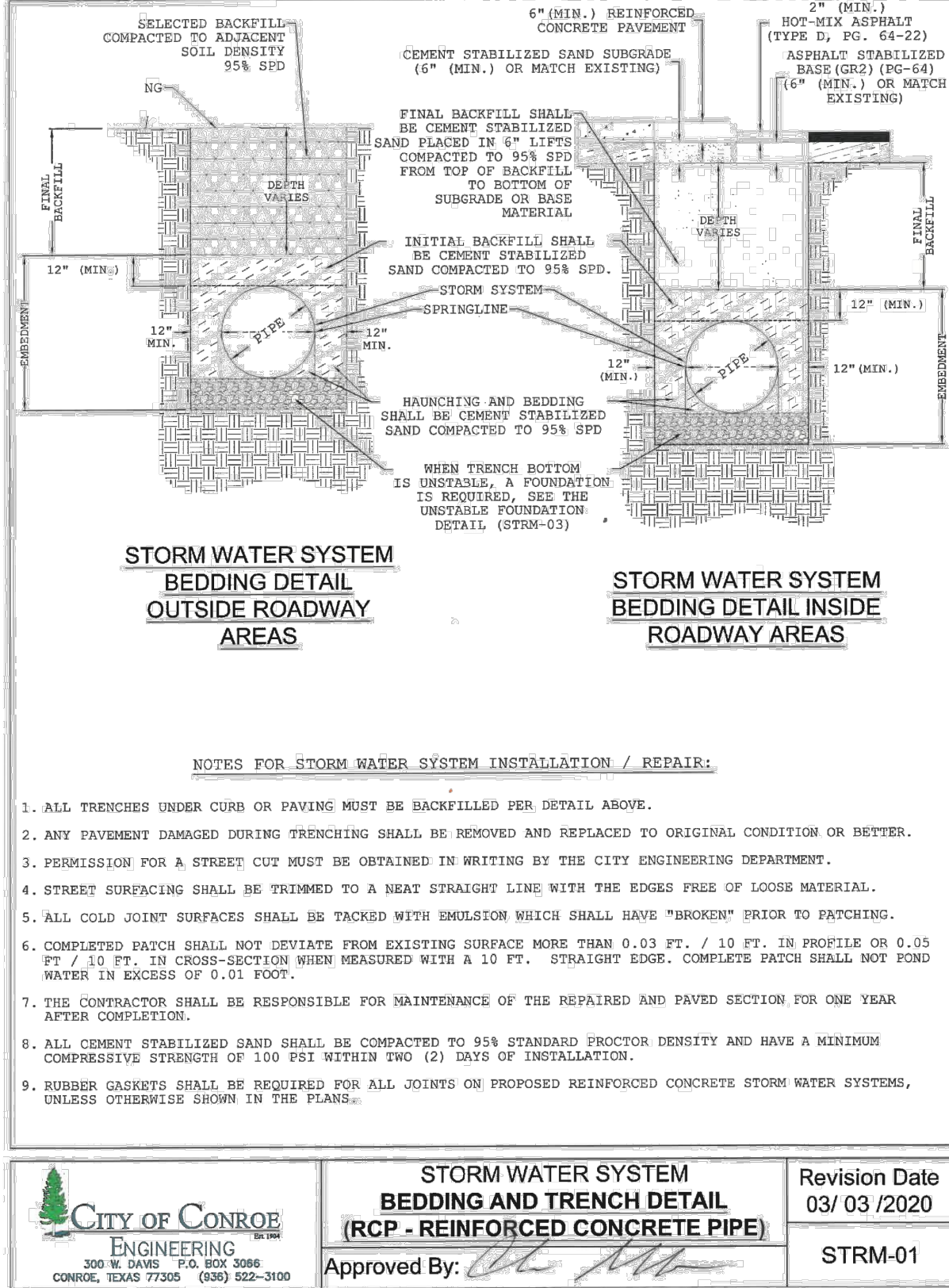
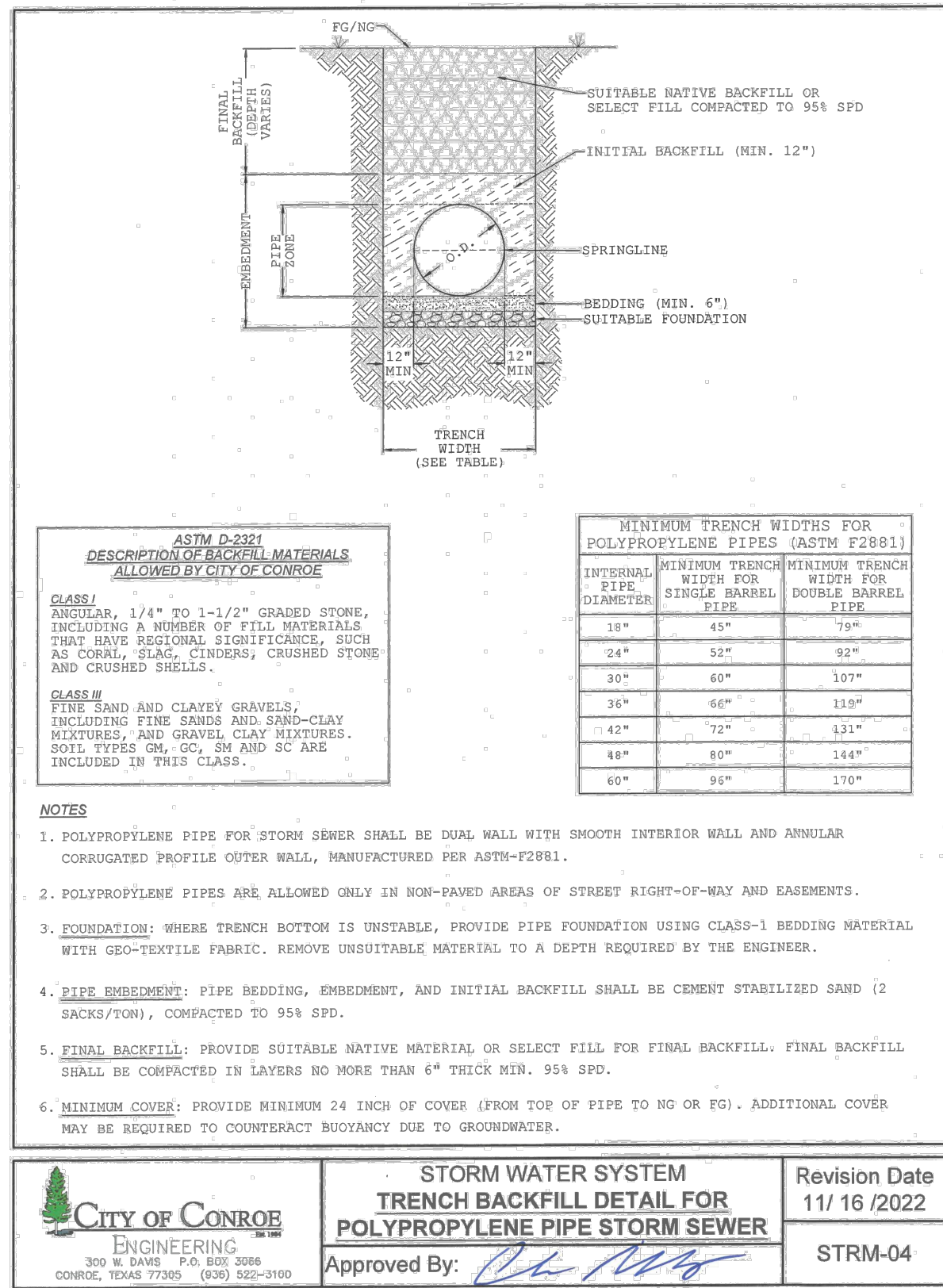
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DRAWING INFORMATION			
PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	AS NOTED	SHEET	40

STATE OF TEXAS
JONATHAN T. WHITE
127058
LICENSED PROFESSIONAL ENGINEER
03/27/2025

CITY OF MONTGOMERY, CITY ENGINEER
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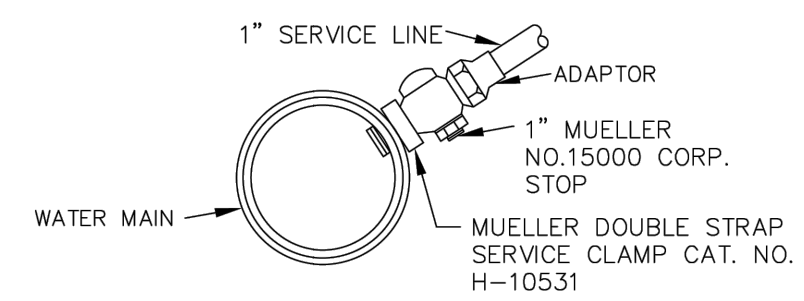
LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179

STORM SEWER DETAILS

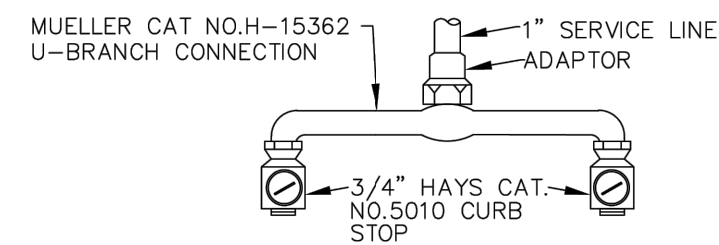
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PROJECT	10979	TDLR	**
DRAWN	BS	REVIEWED BY	JTW
SCALE	SHEET		
AS NOTED		42	

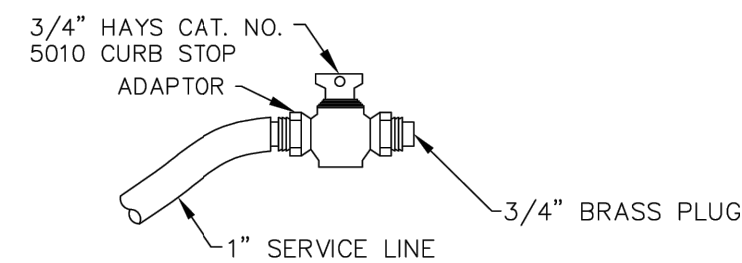
DATE: 03/27/2025



TAP DETAIL

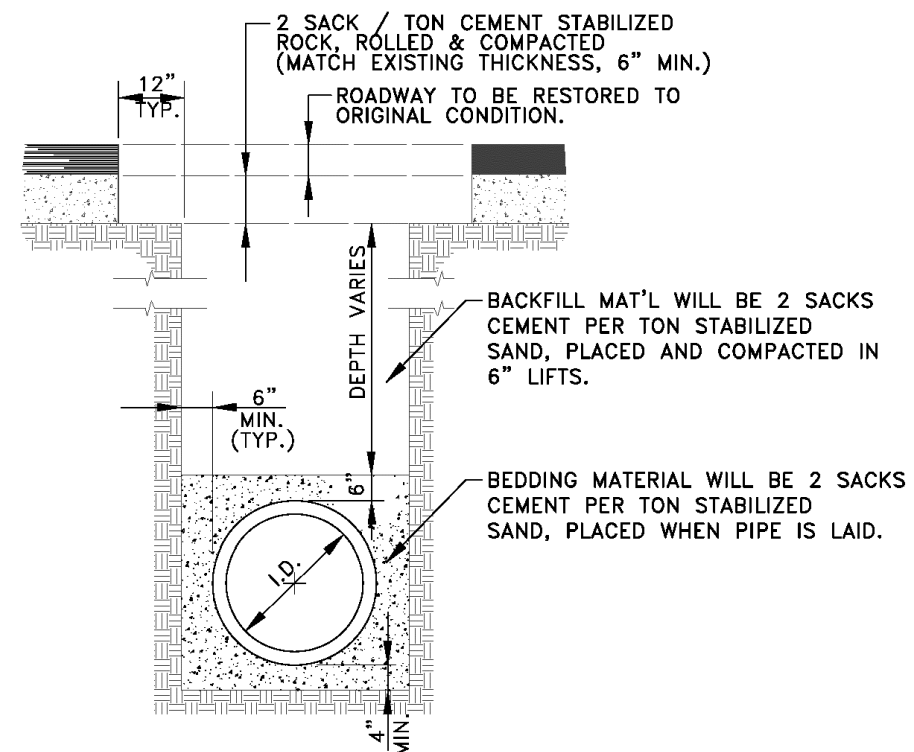


DOUBLE SERVICE LINE CURB STOP DETAIL



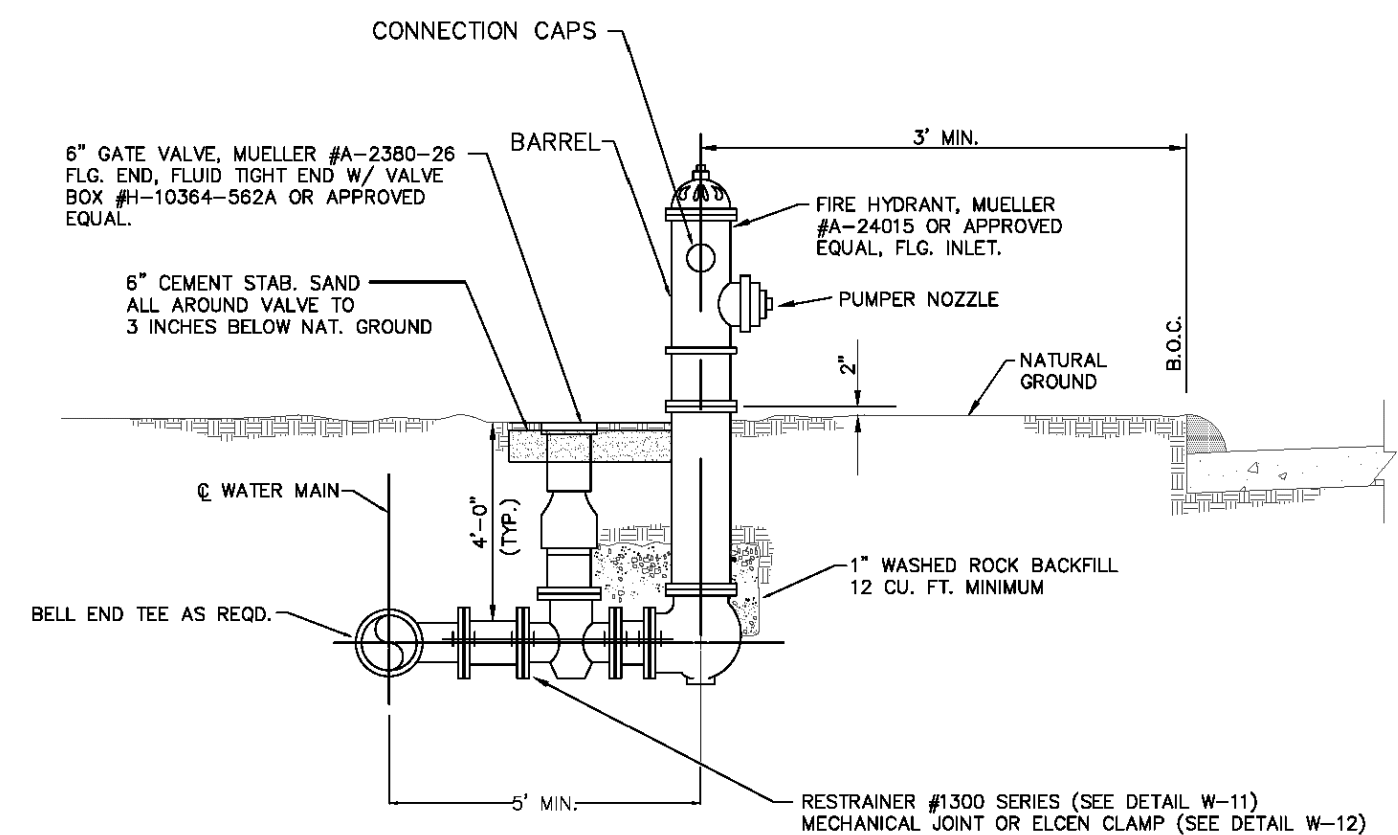
SINGLE SERVICE LINE
CURB STOP DETAIL

REVISIONS 02-2025 REVISED SERVICE LINE SIZE	CITY OF MONTGOMERY CURB STOP & TAP FOR WATERLINE	WATER
		W-10



NOTE: BACKFILL AND BEDDING MUST MEET ALL MINIMUM ASPECTS OF ASTM D-2321

REVISONS	CITY OF MONTGOMERY TYPICAL ROADWAY TRENCH BEDDING AND BACKFILL DETAIL	SEWER
		S-2



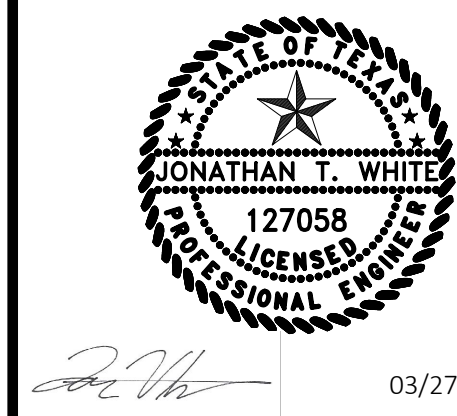
NOTES:

- (1) Hydrants shall be shop coated with a suitable primer and finish painted to City of Montgomery specifications. Barrel is to be painted white, caps blue, and the barrel red. Below ground line and including the inlet shoe, the outside of the barrel and shoe shall be coated with a coal-tar enamel or asphalt base bituminous coating material not less than one (1) mil thickness.
- (2) Fire hydrants in open ditch roadways shall be 3-ft. off R.O.W.
- (3) Mechanical joints and/or elcon clamps are to be rodded together using 5/8" all thread (See W-12).

REVIEWS	QTY OF MONTGOMERY FIRE HYDRANT INSTALLATION	
	WATER	W-15

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PROJECT	10979	TDLR	**
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SCALE	SHEET		
AS NOTED		44	



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CITY OF MONTGOMERY, CITY ENGINEER
SIGNATURE VALID FOR ONE (1) YEAR

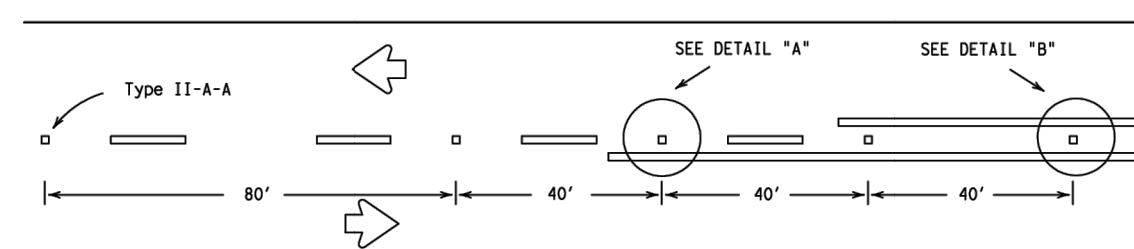
DATE _____

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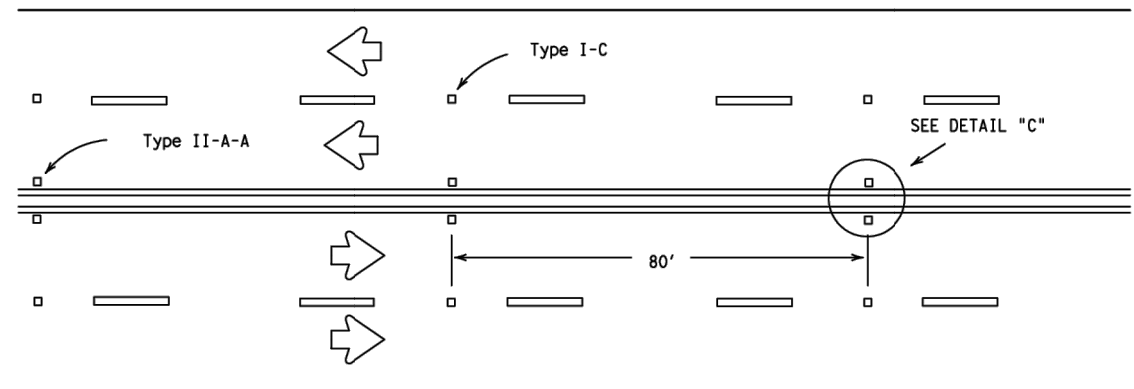
DISCLAIMER:

DATE:

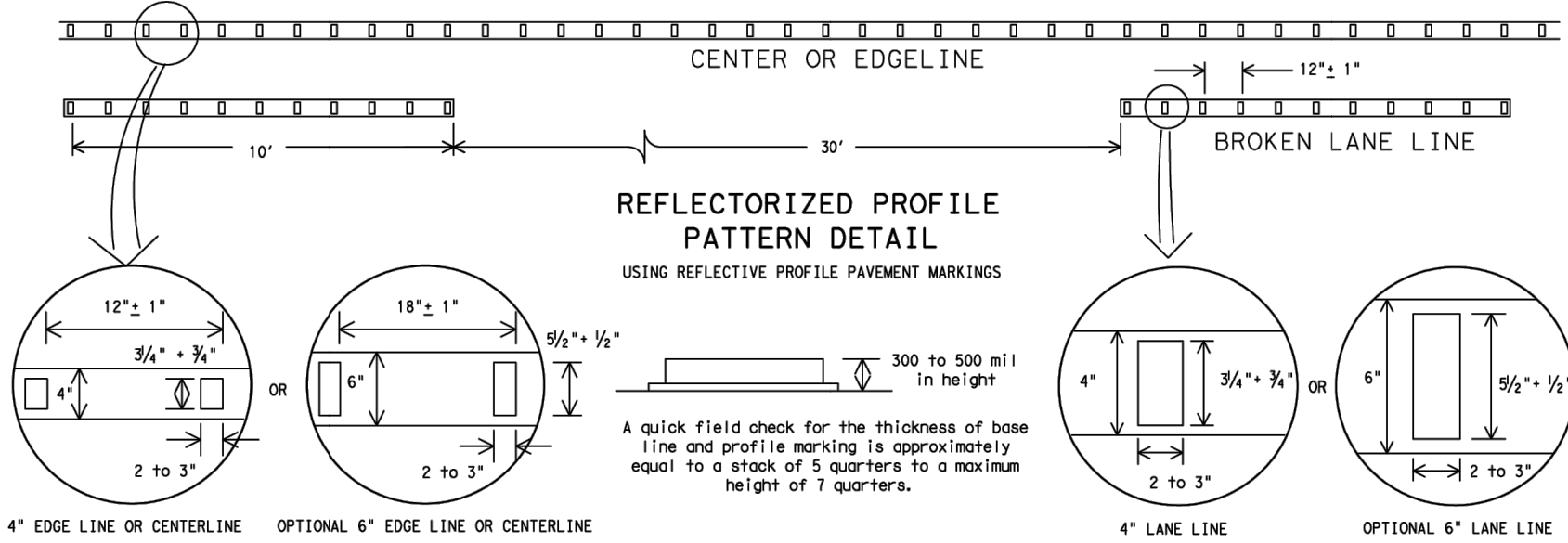
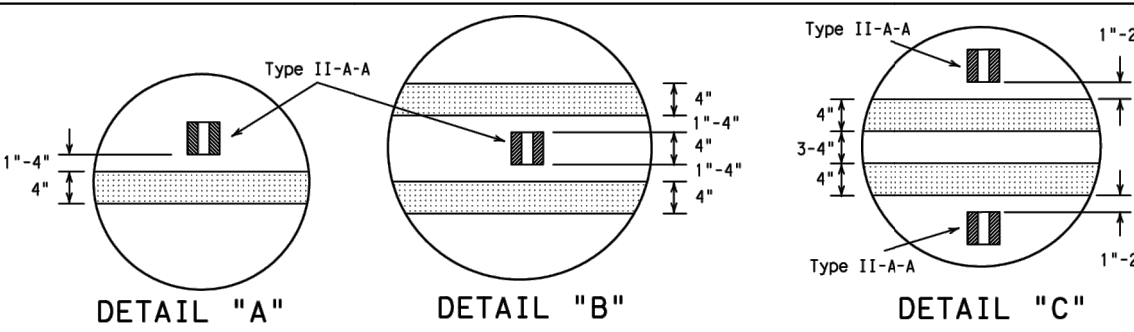
REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE



CENTERLINE FOR ALL TWO LANE ROADWAYS



CENTERLINE & LANE LINES
FOR FOUR LANE TWO-WAY HIGHWAYS

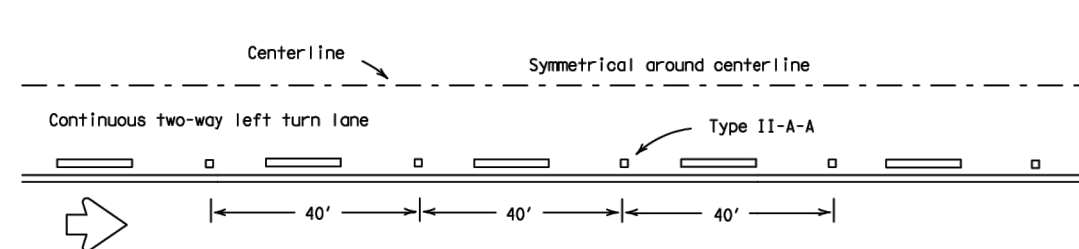


REFLECTORIZED PROFILE
PATTERN DETAIL

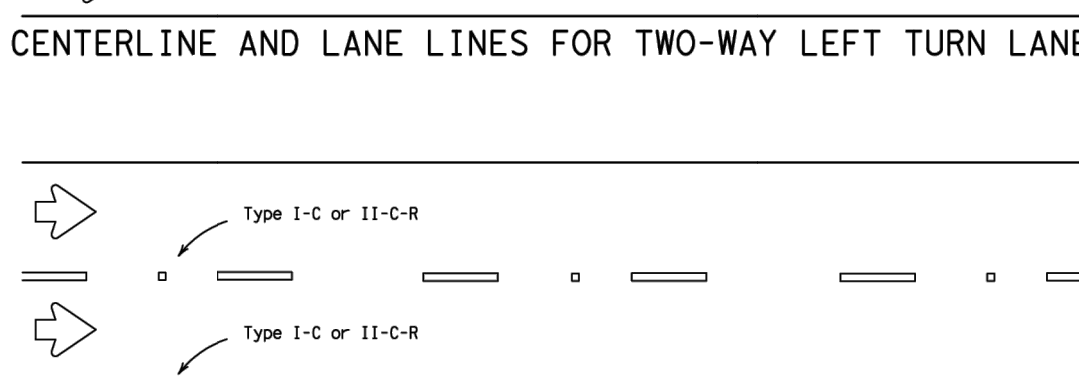
USING REFLECTORIZED PROFILE PAVEMENT MARKINGS

A quick field check for the thickness of base (line and profile) marking is approximately equal to a stack of 5 quarters to a maximum height of 7 quarters.

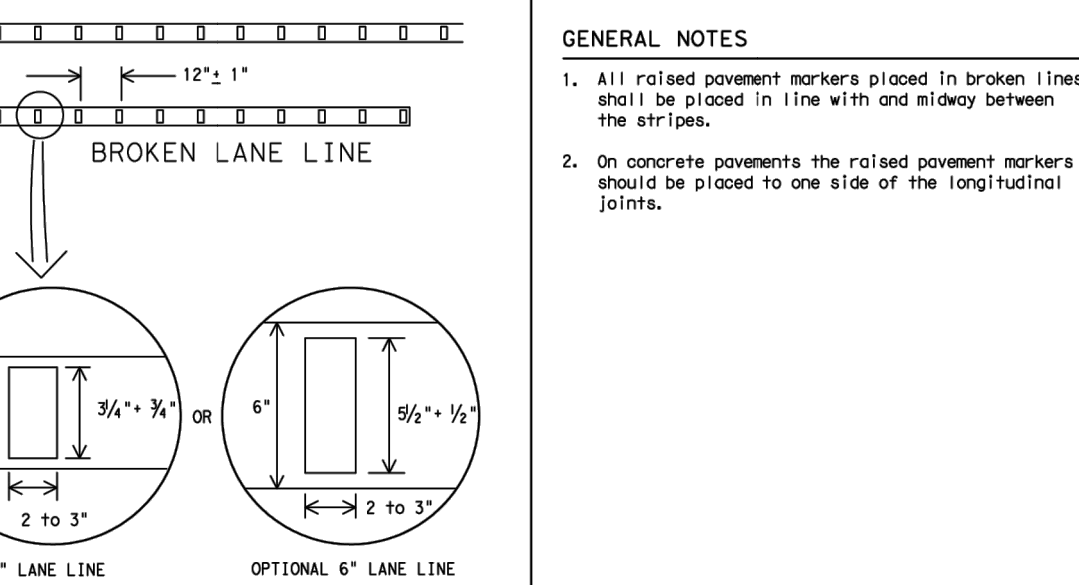
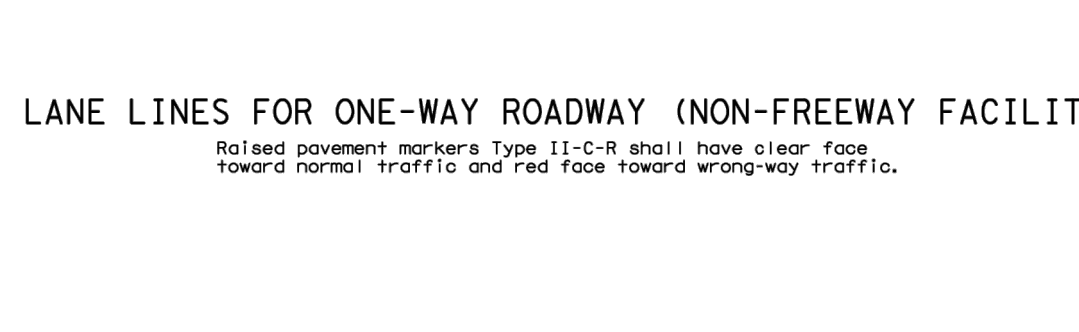
NOTE:
Profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.



CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE



CENTERLINE & LANE LINES
FOR ONE-WAY ROADWAY (NON-FREEWAY FACILITIES)



REFLECTORIZED PROFILE
PATTERN DETAIL

USING REFLECTORIZED PROFILE PAVEMENT MARKINGS

A quick field check for the thickness of base (line and profile) marking is approximately equal to a stack of 5 quarters to a maximum height of 7 quarters.

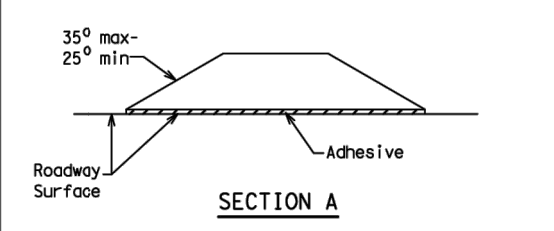
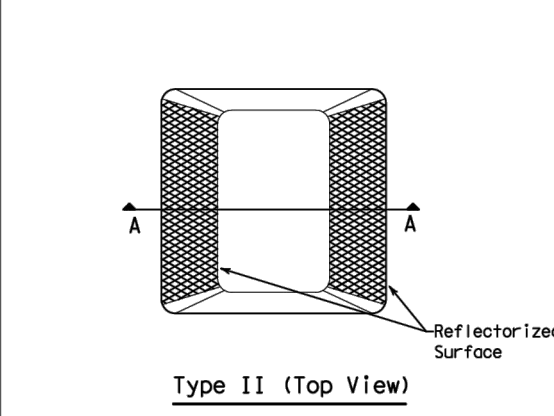
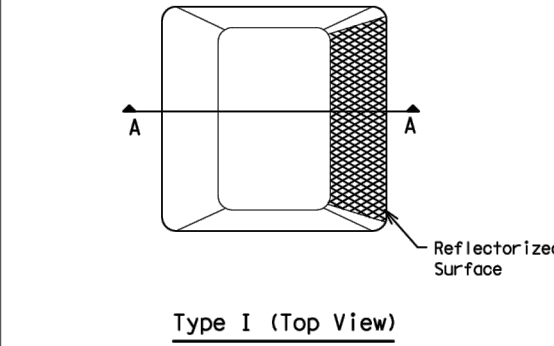
NOTE:
Profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.

GENERAL NOTES

- All raised pavement markers placed in broken lines shall be placed in line with and midway between the stripes.
- On concrete pavements the raised pavement markers should be placed to one side of the longitudinal joints.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPoxy AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
NOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



RAISED PAVEMENT MARKERS

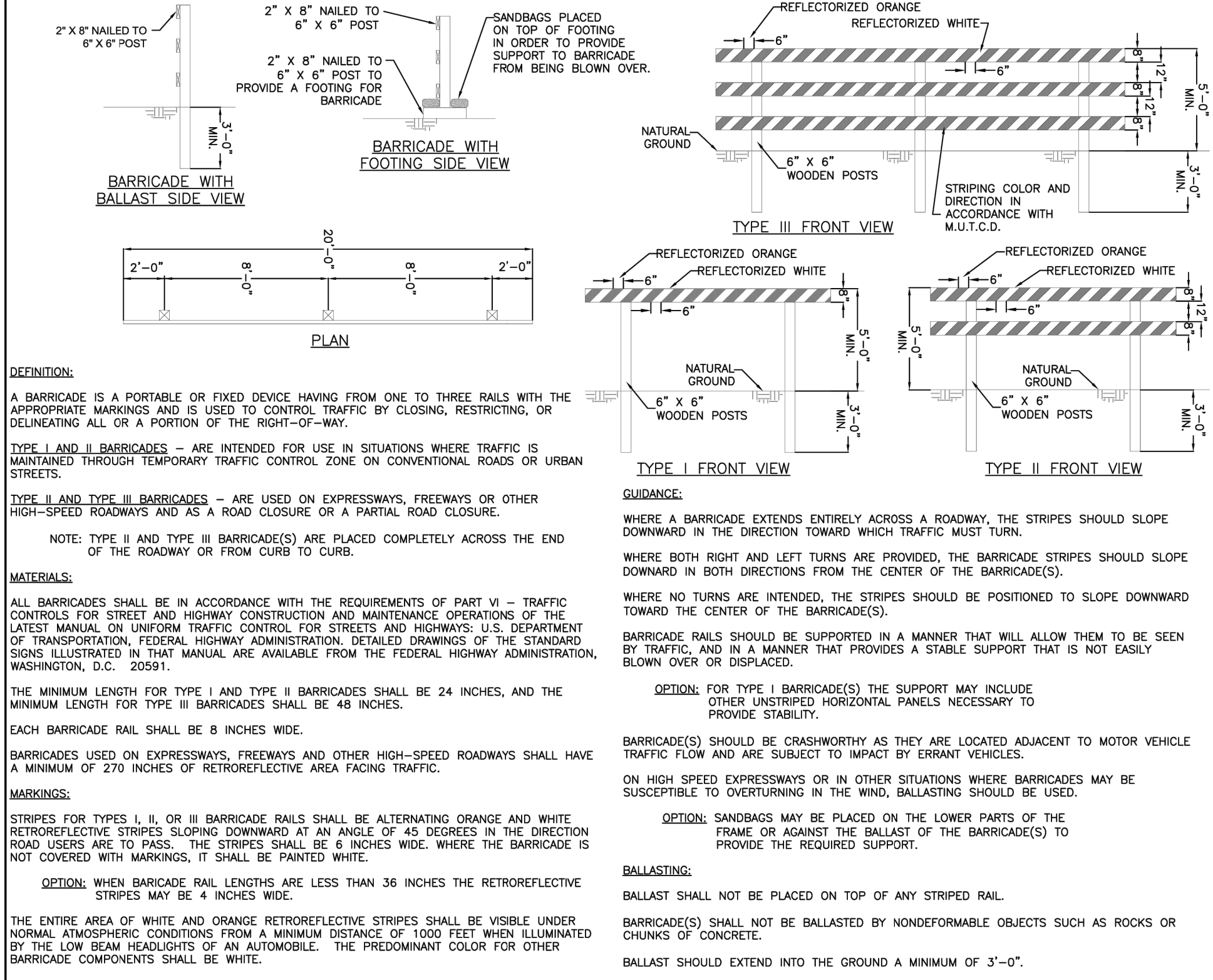
Texas Department of Transportation
Traffic Operations Division
POSITION GUIDANCE USING
RAISED MARKERS
REFLECTORIZED PROFILE
MARKINGS
PM(2)-12

© TxDOT Rev 11/1977	04/1007	04/1007	04/1007	04/1007
REVISED:	04/1007	04/1007	04/1007	04/1007
4-92	2-10			
5-00	2-12			
8-00				
2-08				
2-28				



TYPE I, II, III BARRICADES)

DWG. NO.



DEFINITION:
A BARRICADE IS A PORTABLE OR FIXED DEVICE HAVING FROM ONE TO THREE RAILS WITH THE APPROPRIATE MARKINGS AND IS USED TO CONTROL TRAFFIC BY CLOSING, RESTRICTING, OR DELINEATING ALL OR A PORTION OF THE RIGHT-OF-WAY.

TYPE I AND II BARRICADES - ARE INTENDED FOR USE IN SITUATIONS WHERE TRAFFIC IS MAINTAINED THROUGH TEMPORARY TRAFFIC CONTROL ZONE ON CONVENTIONAL ROADS OR URBAN STREETS.

TYPE II AND TYPE III BARRICADES - ARE USED ON EXPRESSWAYS, FREEWAYS OR OTHER HIGH-SPEED ROADWAYS AND AS A ROAD CLOSURE OR A PARTIAL ROAD CLOSURE.

NOTE: TYPE II AND TYPE III BARRICADE(S) ARE PLACED COMPLETELY ACROSS THE END OF THE ROADWAY OR FROM CURB TO CURB.

MATERIALS:
ALL BARRICADES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF PART VI - TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS OF THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL FOR STREETS AND HIGHWAYS: U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, DETAILED DRAWINGS OF THE STANDARD SIGNS ILLUSTRATED IN THAT MANUAL ARE AVAILABLE FROM THE FEDERAL HIGHWAY ADMINISTRATION, WASHINGTON, D.C. 20591.

THE MINIMUM LENGTH FOR TYPE I AND TYPE II BARRICADES SHALL BE 24 INCHES, AND THE MINIMUM LENGTH FOR TYPE III BARRICADES SHALL BE 48 INCHES.

EACH BARRICADE RAIL SHALL BE 8 INCHES WIDE.

BARRICADES USED ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH-SPEED ROADWAYS SHALL HAVE A MINIMUM OF 270 INCHES OF RETROREFLECTIVE AREA FACING TRAFFIC.

MARKINGS:
STRIPES FOR TYPES I, II, OR III BARRICADE RAILS SHALL BE ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION ROAD USERS ARE TO PASS. THE STRIPES SHALL BE 8 INCHES WIDE. WHERE THE BARRICADE IS NOT COVERED WITH MARKINGS, IT SHALL BE PAINTED WHITE.

OPTION: WHEN BARRICADE RAIL LENGTHS ARE LESS THAN 36 INCHES THE RETROREFLECTIVE STRIPES MAY BE 4 INCHES WIDE.

THE ENTIRE AREA OF WHITE AND ORANGE RETROREFLECTIVE STRIPES SHALL BE VISIBLE UNDER NORMAL ATMOSPHERIC CONDITIONS FROM A MINIMUM DISTANCE OF 1000 FEET WHEN ILLUMINATED BY THE LOW BEAM HEADLIGHTS OF AN AUTOMOBILE. THE PREDOMINANT COLOR FOR OTHER BARRICADE COMPONENTS SHALL BE WHITE.

GUIDANCE:
WHERE A BARRICADE EXTENDS ENTIRELY ACROSS A ROADWAY, THE STRIPES SHOULD SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN.

WHERE BOTH RIGHT AND LEFT TURNS ARE PROVIDED, THE BARRICADE STRIPES SHOULD SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE(S).

BARRICADE RAILS SHOULD BE SUPPORTED IN A MANNER THAT WILL ALLOW THEM TO BE SEEN BY TRAFFIC, AND IN A MANNER THAT PROVIDES A STABLE SUPPORT THAT IS NOT EASILY BLOWN OVER OR DISPLACED.

OPTION: FOR TYPE I BARRICADE(S) THE SUPPORT MAY INCLUDE OTHER UNSTRIPPED HORIZONTAL PANELS NECESSARY TO PROVIDE STABILITY.

BARRICADE(S) SHOULD BE CRASHWORTHY AS THEY ARE LOCATED ADJACENT TO MOTOR VEHICLE TRAFFIC FLOW AND ARE SUBJECT TO IMPACT BY ERRANT VEHICLES.

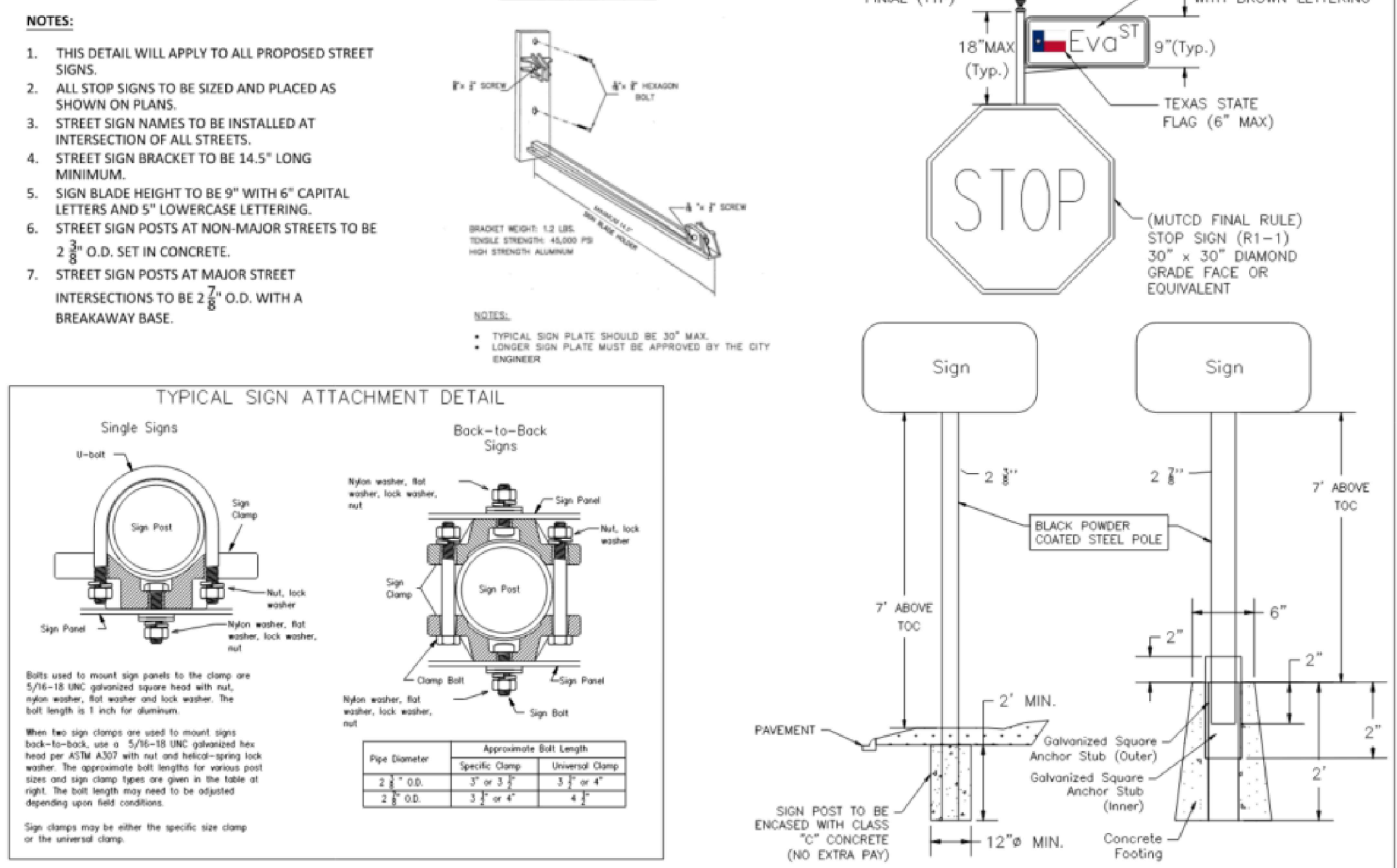
ON HIGH SPEED EXPRESSWAYS OR IN OTHER SITUATIONS WHERE BARRICADES MAY BE SUSCEPTIBLE TO OVERTURNING IN THE WIND, BALLASTING SHOULD BE USED.

OPTION: SANDBAGS MAY BE PLACED ON THE LOWER PARTS OF THE FRAME OR AGAINST THE BALLAST OF THE BARRICADE(S) TO PROVIDE THE REQUIRED SUPPORT.

BALLASTING:
BALLAST SHALL NOT BE PLACED ON TOP OF ANY STRIPED RAIL.

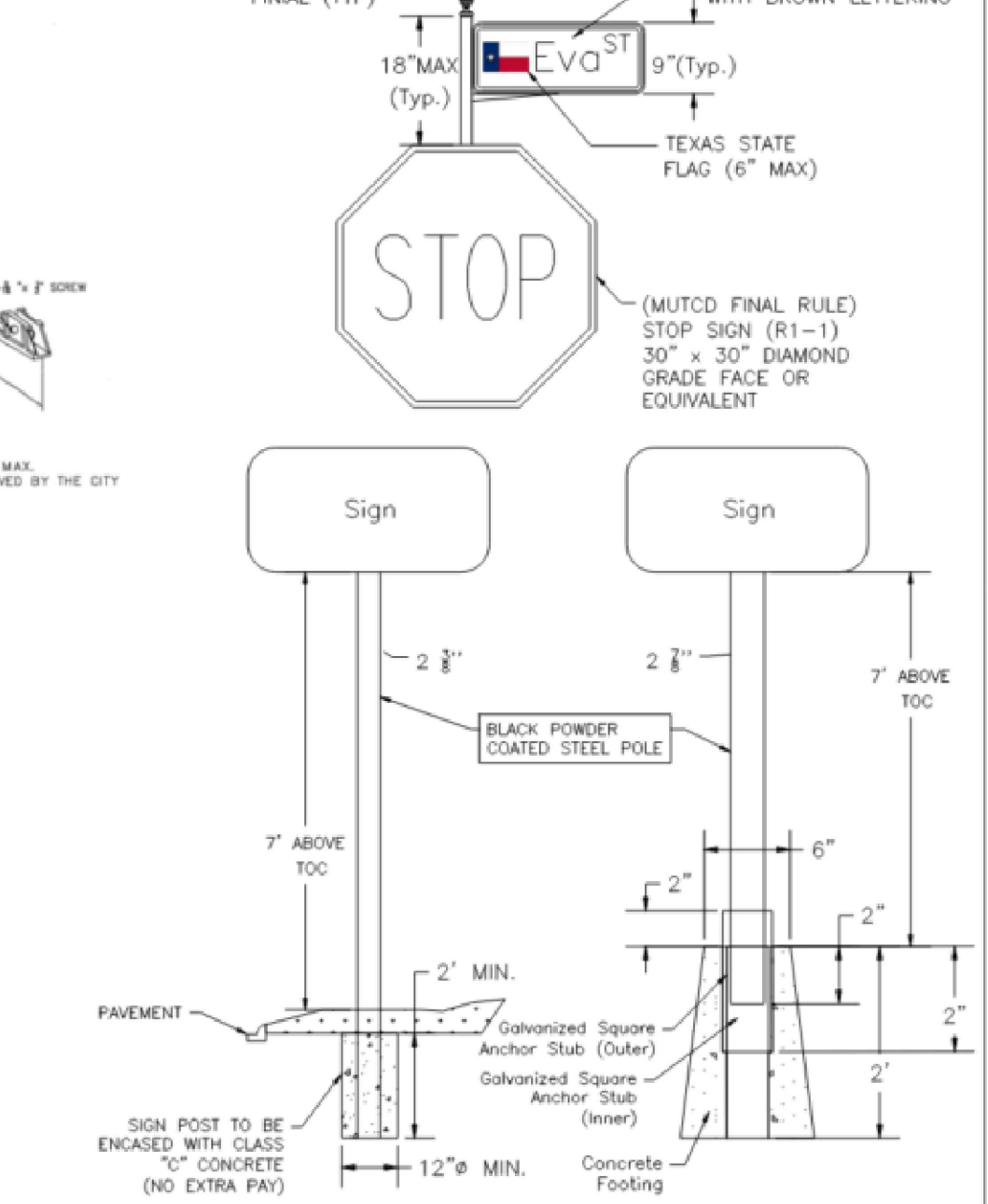
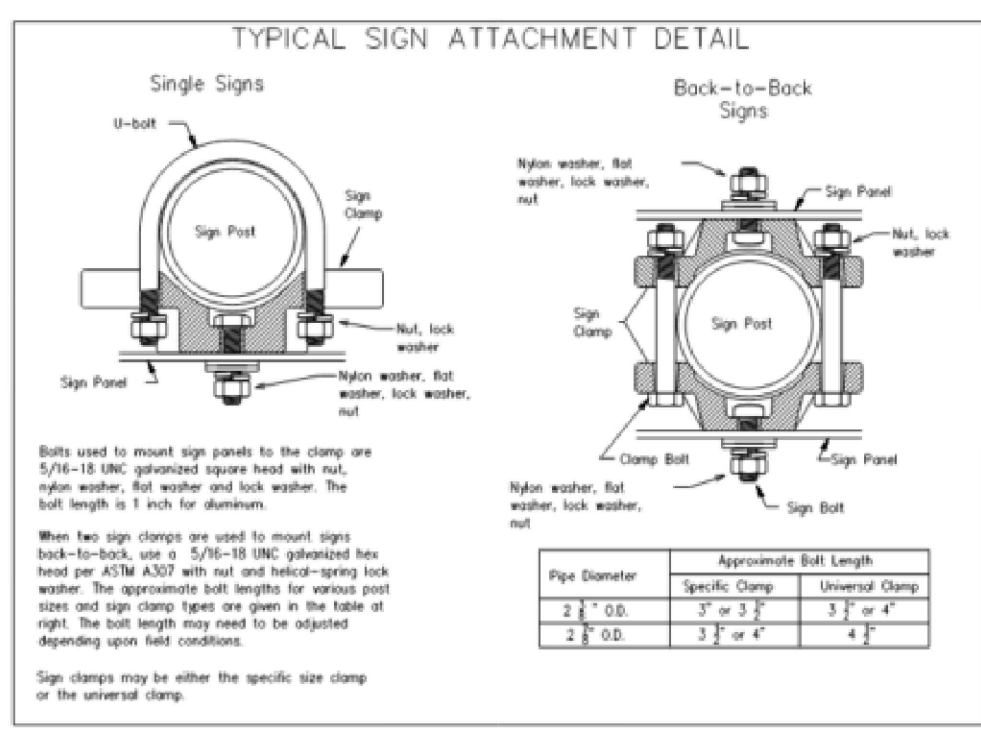
BARRICADE(S) SHALL NOT BE BALLASTED BY NONDEFORMABLE OBJECTS SUCH AS ROCKS OR CHUNKS OF CONCRETE.

BALLAST SHOULD EXTEND INTO THE GROUND A MINIMUM OF 3'-0".



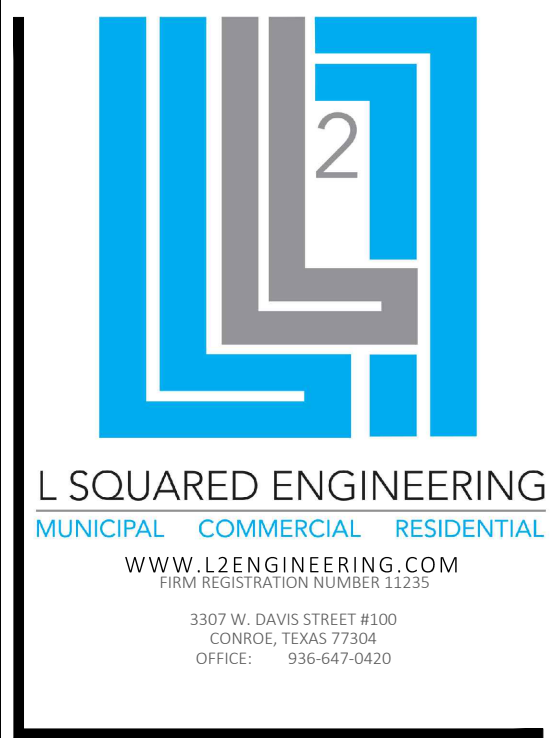
NOTES:

- THIS DETAIL WILL APPLY TO ALL PROPOSED STREET SIGNS.
- ALL STOP SIGNS TO BE SIZED AND PLACED AS SHOWN ON PLANS.
- STREET SIGN NAMES TO BE INSTALLED AT INTERSECTION OF ALL STREETS.
- STREET SIGN BRACKET TO BE 14.5" LONG MINIMUM.
- SIGN BLADE HEIGHT TO BE 9" WITH 6" CAPITAL LETTERS AND 5" LOWERCASE LETTERING.
- STREET SIGN POSTS AT NON-MAJOR STREETS TO BE 2 3/8" O.D. SET IN CONCRETE.
- STREET SIGN POSTS AT MAJOR STREET INTERSECTIONS TO BE 2 3/8" O.D. WITH A BREAKAWAY BASE.



CITY OF MONTGOMERY
STANDARD STREET SIGN

PAVING
P-6

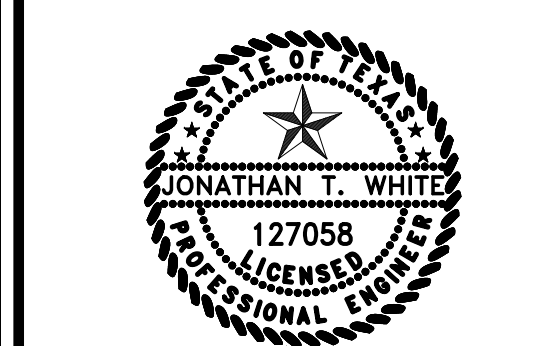


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LONE STAR RIDGE PHASE 1
WATER, SEWER, DRAINAGE & PAVING
ON BEHALF OF MC MUC 179
PAVING DETAILS 2 OF 2

DRAWING ISSUE			
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DRAWING INFORMATION	
PROJECT	10979 TDLR **
DRAWN	BS REVIEWED BY JTW
SCALE	SHEET
AS NOTED	46



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