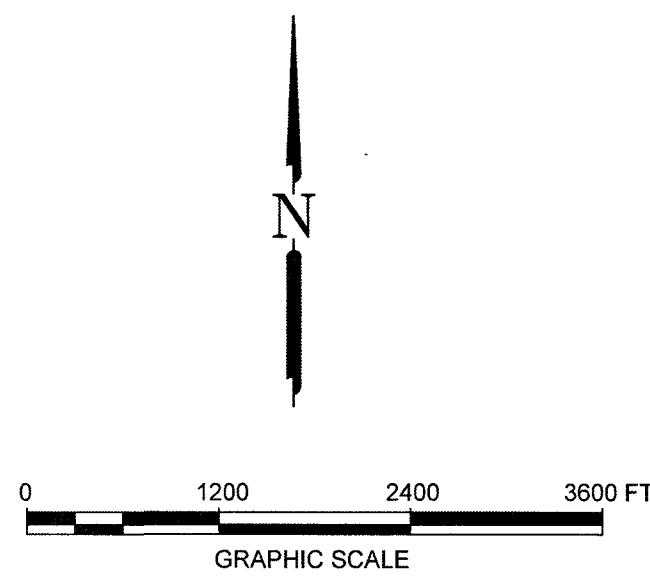


PLANS FOR CONSTRUCTION OF
PAVING, DRAINAGE AND UTILITIES ON
GIFFORD MEADOWS SUBDIVISION
2 BLOCKS, 85 LOTS
FOR THE
CITY OF ANGLETON
BRAZORIA COUNTY
B&L JOB No. 13743



CITY OF ANGLETON

MAYOR
JASON PEREZ

CITY MANAGER
CHRIS WHITTAKER

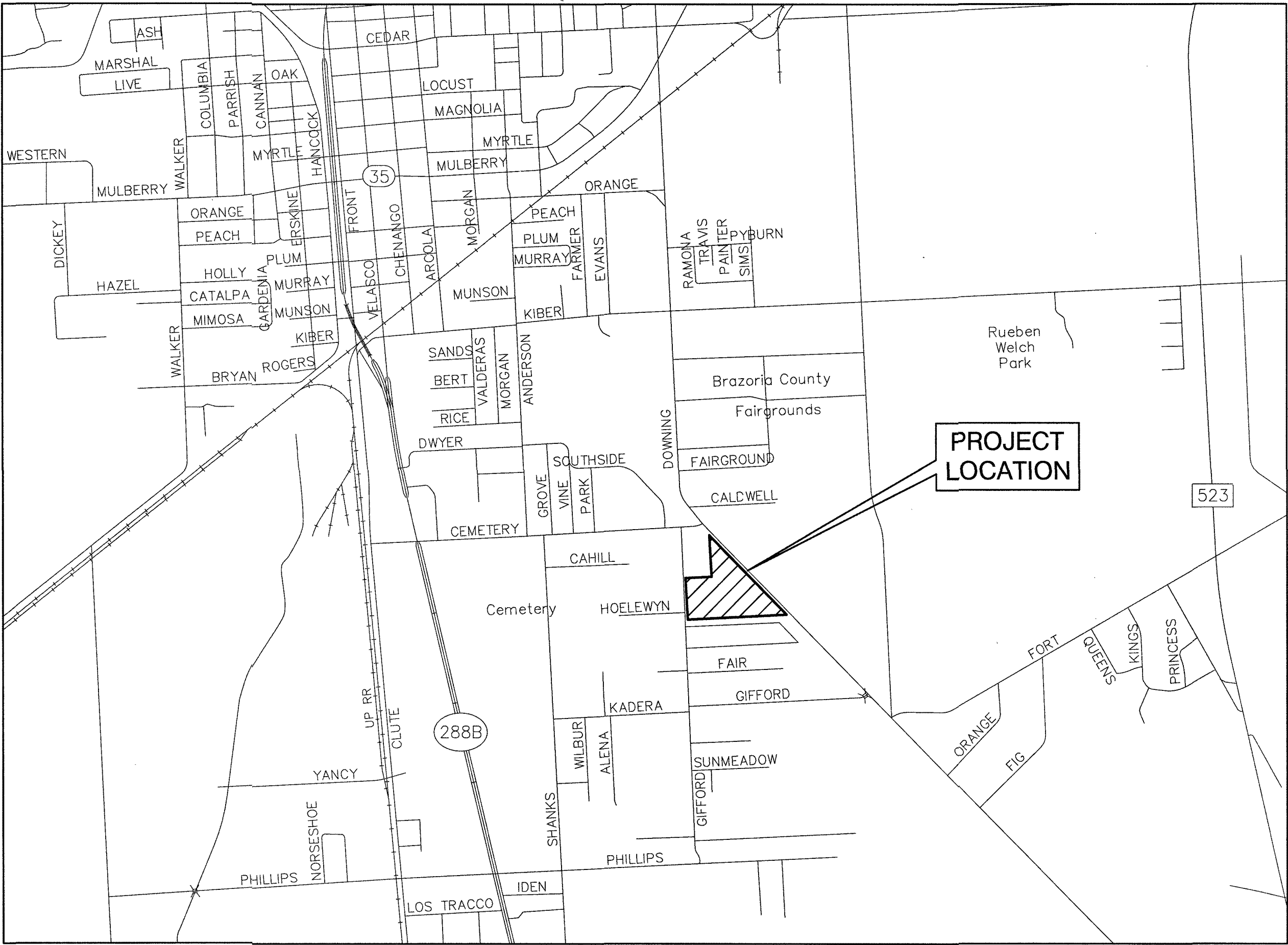
CITY COUNCIL
MIKEY SVOBODA
CECIL BOOTH
JOHN WRIGHT
TRAVIS TOWNSEND
MARK GONGORA

"Release of this application does not constitute a verification of all data, information and calculations supplied by the applicant. The engineer of record is solely responsible for the completeness, accuracy and adequacy of their submittal, whether or not the application is reviewed for Code compliance by the City Engineer."

"All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the City of Angleton must rely on the adequacy of the work of the Design Engineer."

FLOOD ZONE STATEMENT:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR BRAZORIA COUNTY, MAP NUMBER 48039C0445H, WITH EFFECTIVE DATE OF JUNE 05, 1989, THE PROPERTY SURVEYED LIES FULLY WITHIN ZONE "X" (UNSHADED). AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD-PLAIN. ON PROPOSED FEMA PANEL, 48039C0445K, THE SITE LIES FULLY WITHIN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD-PLAIN.

THE SITE LIES WITHIN THE BASTROP BAYOU WATERSHED (DRAINAGE AREA BB18 OF THE BRAZORIA COUNTY MASTER DRAINAGE STUDY). THE ALLOWABLE DISCHARGE RATE IS 0.74 CFS/ACRE.



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RECORD DRAWING

DESIGNED MS			The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992 Date: 11/22/21	OWNER: DAVID ROGERS ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057	PLAN: _____ PROFILE: _____ HORIZONTAL: _____ VERTICAL: _____	GIFFORD MEADOWS A 17.37 AC, 85-LOT SUBDIVISION ANGLETON, TEXAS 77515	TITLE SHEET
DRAWN _____							
CHECKED _____							
DATE _____							
NO. DATE DESCRIPTION APPROVED		REVISIONS					
PROJECT NO. 13743							

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL NOTIFY THE "UNDERGROUND UTILITY COORDINATING COMMITTEE" (TELEPHONE NO. (979) 849-4364 AND THE CITY OF ANGLETON (TELEPHONE NO. (979) 849-4364) 48 HOURS BEFORE STARTING WORK IN STREET RIGHT-OF-WAYS OR EASEMENTS.
2. ALL EXISTING UNDERGROUND UTILITIES ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM 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. NO SEPARATE PAY.
3. CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET, AS A MINIMUM, THE REQUIREMENTS OF OSHA SAFETY AND HEALTH REGULATION, PART 1926, SUBPART P AS PUBLISHED IN THE FEDERAL REGISTER, VOLUME 54, NO. 209, DATED OCTOBER 31, 1989.
4. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD MOST RECENT EDITION AS REVISED) DURING CONSTRUCTION.
5. CONTRACTOR SHALL COVER OPEN EXCAVATIONS IN PUBLIC STREETS WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS.
6. 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 OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.
7. EXISTING PAVEMENTS, CURBS, SIDEWALKS, CULVERTS AND DRIVEWAYS (ADJACENT TO THE WORK) DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO EQUAL OR BETTER THAN THEIR ORIGINAL CONDITION AT CONTRACTOR EXPENSE.
8. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK. CONTRACTOR SHALL TAKE NECESSARY ACTIONS TO PROTECT THE EXISTING SURFACES OUTSIDE THE WORK AREA FROM THE EQUIPMENT USED. ALL TRACKED MACHINERY (STREET PADS INCLUDED) SHALL NOT BE OPERATED DIRECTLY ATOP THE PAVEMENT WITHOUT APPROPRIATE PADDING AND PROTECTION OF THE SURFACES. ANY MARRED OR DISTRESSED AREAS SHALL BE REMOVED AND RESTORED WITH NEW MATERIALS TO THE SATISFACTION OF THE ENGINEER. ANY EXISTING DISTRESSED AREAS SHALL BE MADE KNOWN TO THE ENGINEER PRIOR TO OPERATIONS IN THE WORK AREA.
9. ALIGNMENT, CENTERLINE CURVE DATA AND STATIONING TO BE VERIFIED BY ON-THE-GROUND SURVEY FROM APPROVED SUBDIVISION PLAT (OR APPROVED PLOT FOR OFF-SITE EASEMENTS), AND ELEVATIONS OF ALL CONNECTIONS TO EXISTING FACILITIES TO BE CONFIRMED PRIOR TO WORK START. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
10. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
11. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
12. ALL UTILITY TRENCHES TO BE BACK FILLED TO 90 PERCENT (90%) STANDARD PROCTOR DENSITY UNLESS OTHERWISE NOTED.
13. ALL SURVEY, LAYOUT, MEASUREMENT, AND GRADE STAKE WORK SHALL BE PERFORMED BY BAKER & LAWSON, INC. AS PART OF THE WORK UNDER THIS CONTACT.
14. BAKER & LAWSON, INC. WILL PROVIDE EXPERIENCED INSTRUMENT MEN, COMPETENT ASSISTANTS, AND SUCH INSTRUMENTS, TOOLS, STAKES, AND OTHER MATERIALS REQUIRED TO COMPLETE THE SURVEY, LAYOUT AND MEASUREMENT WORK.
15. CONSTRUCTION DEBRIS AND OTHER UNCLASSIFIED UNSUITABLE EXCESS MATERIAL SHALL BE HAULED TO A STATE APPROVED DISPOSAL SITE OR AS DIRECTED BY THE ENGINEER. AN EXISTING LANDFILL APPROXIMATELY 10 MILES FROM THE PROJECT SITE IS THE NEAREST STATE APPROVED FILL FACILITY. ALL REFUSE MATERIALS (BROKEN CONCRETE, TREES, ASPHALT, ETC.) SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.
16. PLAN QUANTITIES WILL BE USED FOR FINAL PAYMENT UNLESS DESIGN CHANGES ARE MADE DURING CONSTRUCTION.

CONSTRUCTION NOTES FOR PAVING & DRAINAGE

1. GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM CONTROL DEVICES SHALL BE OBSERVED.
2. FILL SHALL BE PLACED IN MAXIMUM 8" LOOSE LIFTS AND COMPACTED TO 95% OF OPTIMUM DENSITY AS DETERMINED USING TESTING METHOD ASTM D698.
3. CONTRACTOR RESPONSIBLE FOR MAINTAINING BARRICADES TO PREVENT TRAFFIC FROM USING NEW PAVEMENT UNTIL PROJECT IS COMPLETED AND ACCEPTED BY PROPER AUTHORITY OR AS AUTHORIZED BY ENGINEER.
4. B-B INDICATES ROAD WIDTH TO BACK OF CURB. CURB RADI ARE TO FACE OF CURB. T.C. INDICATES TOP OF CURB ELEVATIONS (BASED ON 4" CURB UNLESS OTHERWISE NOTED) T.P. INDICATES TOP OF PAVEMENT ELEVATION.
5. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT MAXIMUM SPACING OF 40-FOOT INTERVALS (SAWCUTS @ 20'2 1/2"DEEP). LONGITUDINAL JOINTS SHALL BE AT MAXIMUM OF 14-FOOT SPACING. WOOD JOINT SHALL BE SOUND HEART REDWOOD.
6. 6-INCH CONCRETE PAVEMENT TO BE 5.5 SACK MIX MIN. (3,500 PSI) REINFORCING STEEL TO CONFORM TO ASTM A-615, GRADE 60. PROVIDE MINIMUM 18-INCH LAPS. (36 BAR DIA.
7. SAW CUT TO EXPOSE EXISTING LONGITUDINAL STEEL REQUIRED TO CREATE A MINIMUM TWELVE-INCH (12") OVERLAP OF PROPOSED AND EXISTING LONGITUDINAL REINFORCING STEEL WHEN MAKING A CONNECTION TO EXISTING CONCRETE PAVEMENT. WHERE SPACING OF EXISTING LONGITUDINAL STEEL DIFFERS FROM PROPOSED STEEL SPACING, NOTIFY THE ENGINEER.
8. USE PLASTIC CHAIRS TO SUPPORT REINFORCEMENT AT 24-INCH SPACING EACH WAY.
9. SUBGRADE TO BE STABILIZED 1-FOOT BACK OF PROPOSED CURB OR EDGE OF PAVEMENT. EXCESS LIME STABILIZED SOIL SHALL BE UTILIZED IN THE PREPARATION OF SUBGRADE FOR DRIVEWAYS. THERE WILL BE NO PAYMENT FOR PREPARING SUBGRADE FOR DRIVEWAYS AND SIDEWALKS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED CONCRETE PAY ITEMS. SUBGRADE PREPARATION FOR DRIVEWAYS AND PAVING SHALL INCLUDE PROOF ROLLING. SOFT AREAS TO BE EXCAVATED AND RECOMPACTED TO ADJACENT SOIL DENSITY.
10. USE CONTINUOUS LONGITUDINAL REINFORCING BAR IN CURB.
11. BACK FILL AND BEDDING FOR HEADWALL STRUCTURES, TYPE "C" INLETS, R.C.P. LEADS AND STORM SEWERS SHALL BE WITH 1.5 SACK CEMENT. STABILIZED SAND SHALL BE COMPACTED TO A DENSITY OF AT LEAST 90% OF DENSITY DETERMINED BY STANDARD MOISTURE-DENSITY RELATION (ASTM D-698) AT OPTIMUM MOISTURE AND SHALL BE PLACED AND FINISHED WITHIN 3 HRS. OF MIXING. TEMPORARY TRAVEL WAY SURFACE SHALL BE WITH CEMENT STABILIZED LIMESTONE. PAYMENT FOR THESE ITEMS SHALL BE SUBSIDIARY TO THE VARIOUS STRUCTURAL BID ITEMS. VERIFICATION OF CEMENT STABILIZED SAND MIXTURE SHALL BE FURNISHED UPON REQUEST OF ENGINEER.
12. THE SUBGRADE SHALL BE BROUGHT TO THE REQUIRED GRADE BY THE USE OF GRADE STAKES (BLUE TOPS) AND APPROVED BY THE ENGINEER BEFORE LIME IS APPLIED.

13. RATE OF APPLICATION FOR LIME SHALL BE SEVEN PERCENT (7%) OF THE DRY WEIGHT OF SOIL (QUALITY BASE ON 100 #/ C.F.) OR THIRTY ONE AND ONE HALF (31.5) POUNDS PER SQUARE YARD FOR SIX (6) INCH STABILIZED SUBGRADE. LIME STABILIZED SUBGRADE SHALL NOT BE MIXED MORE THAN ONE INCH IN EXCESS OF THE REQUIRED DEPTH. LIME STABILIZED SUBGRADE SHALL BE BROUGHT TO THE OPTIMUM MOISTURE CONTENT DURING THE FIRST MIXING OPERATIONS THEN LEFT TO CURE FOR TWO CURING DAYS BEFORE FINAL MIXING CAN BEGIN. AFTER FINAL MIXING IS COMPLETED AND BEFORE SOIL DENSITY TESTS ARE TAKEN, LIME STABILIZED SUBGRADE SHALL BE BROUGHT TO THE REQUIRED GRADE BY THE USE OF GRADE STAKES (BLUE TOPS) AND APPROVED BY THE ENGINEER. DENSITY SHALL BE NINETY-FIVE PERCENT (95%) OF THE STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE. TESTED AND COMPLETED SECTIONS SHALL BE KEPT MOIST CURED ON A DAILY BASIS WITH WATER TRUCKS OR SUBSTANTIAL SUPPLY HOSES FOR THE ENTIRE PERIOD THE SURFACE REMAINS UNCOVERED WITH ADDITIONAL CURES. AFTER FINAL TESTING AND APPROVAL IS COMPLETE, TRACK EQUIPMENT, SCRAPERS AND OTHER HEAVY EQUIPMENT WILL NOT BE PERMITTED ON THE COMPLETED LIME STABILIZED AREA. LIGHT MOTOR GRADERS, RUBBER Tired TRACTORS, WATER TRUCKS AND ROLLERS USED IN THE FINISHING OPERATIONS WILL BE PERMITTED WITH THE APPROVAL OF THE ENGINEER. CONCRETE AND LOADED HAUL TRUCKS ARE STRICTLY PROHIBITED ON COMPLETED AREAS UNLESS THE TRAVELED AREA REGARDOLESS OF CONDITION IS REMIXED COMPACTED AND TESTED FOR APPROVAL A SECOND TIME.
14. FORMS SHALL BE EITHER WOOD OR STEEL OF GOOD QUALITY, FREE OF WARP AND SUFFICIENTLY STAKED TO AVOID SHIFTING WHEN LOAD IS APPLIED. ALL REDWOOD EXPANSION BOARDS SHALL BE STAKED WITH 1X2 REDWOOD STAKES AND ALLOWED TO REMAIN WITHIN THE POUR. METAL STAKES ARE APPROVED FOR USE TO STAKE METAL KEYWAYS.
15. REINFORCING SHALL BE SECURELY TIED AT ALL INTERSECTIONS AND SPLICES. ALL DOWELS SHALL BE SECURELY TIED. REINFORCEMENT SHALL BE CLEAN AND FREE OF RUST AT TIME OF USE. PLASTIC CHAIR OF THE CORRECT HEIGHT SHALL BE USED. SPACING SHALL BE SUFFICIENT TO SUPPORT REINFORCEMENT.
16. PRIOR TO CONCRETE PLACEMENT, CONTRACTOR SHALL PRESENT A CERTIFIED COPY OF TOP OF FORM GRADES TO THE ENGINEER FOR REVIEW AND APPROVAL. ELEVATIONS OF FORMS SHALL BE RECORDED AT 10' INTERVALS. ADJUSTMENTS TO FORMS SHALL BE COMPLETE 4 HRS. PRIOR TO CONCRETE PLACEMENT.
17. CONCRETE FOR STREET PAVEMENTS SHALL BE "CLASS A" CONCRETE, SHALL NOT HAVE LESS THAN FIVE AND ONE HALF (5 1/2) SACKS OF CEMENT PER CUBIC YARD, AND SHALL NOT HAVE MORE THAN SIX AND ONE HALF (6 1/2) GALLONS OF WATER PER SACK OF CEMENT. SLUMP SHALL NOT EXCEED FIVE (5) INCHES AND SHALL DEVELOP A MODULUS OF RUPTURE STRENGTH OF THREE THOUSAND FIVE HUNDRED (3500) P.S.I. AT TWENTY EIGHT (28) DAYS. CONCRETE SHALL BE PLACED IN SUCH A MANNER AS TO REQUIRE AS LITTLE HANDLING AS POSSIBLE. USE OF AN APPROVED VIBRATING SCREED WILL BE REQUIRED. AT INTERSECTIONS AND SMALL AREAS WHERE A VIBRATORY SCREED CAN NOT BE USED, A HAND VIBRATOR OR "JITTERBUG" SHALL BE USED. USE OF A TEN FOOT (10') CONCRETE PAVEMENT STRAIGHT EDGE WILL ALSO BE REQUIRED. ALL EXPOSED JOINTS SHALL BE EDGED AS NOTED ON DETAILS. SURFACE SHALL BE TYPICALLY A BELT FINISH OR BROOM FINISH (COARSE, MEDIUM OR LIGHT) AS REQUIRED BY THE APPLICATION AND DIRECTED BY THE ENGINEER.
18. FLY ASH SHALL MAKE UP FROM 20-25% BY VOLUME OF THE SPECIFIED CEMENT VOLUME AND SHALL CONFORM TO ASTM C 618, CLASS C.
19. CURING COMPOUND SHALL BE TYPE II WITH WHITE PIGMENT. APPLIED AT THE UNDILUTED RATE OF ONE GALLON PER TWO HUNDRED (200) SQUARE FEET.
20. EXPANSION JOINTS SHALL BE CLEANED, WIRE BRUSHED, BLOWN OR FLAME DRIED SEALED WITH AN APPROVED LIST RUBBERIZED HOT LAID ASPHALT JOINT AND CRACK SEALANT OR A TWO (2) COMPONENT POLYMERIC SELF LEVELING COLD APPLIED SEALANT.
21. CONTRACTOR WILL NOT PERMIT TRAFFIC ON NEW CONCRETE PAVEMENT UNTIL BOTH A MINIMUM OF SEVEN (7) CURING DAYS AND MODULUS OF RUPTURE STRENGTH OF THREE THOUSAND FIVE HUNDRED (3500) P.S.I. TAKES PLACE OR AS APPROVED BY THE ENGINEER/PUBLIC WORKS DEPARTMENT.
22. CONCRETE FOR CURB SHALL BE A 3000 P.S.I. PERFORMANCE STRENGTH CONCRETE WITH A MINIMUM FIVE (5) SACKS OF CEMENT PER CUBIC YARD CONTENT. CURB CONCRETE MIX MAY BE A SMALL AGGREGATE BATCH DESIGN.
23. A CONCRETE MIX DESIGN OF CONCRETE PLUS FLY ASH MAY BE SUBSTITUTED IN LIEU OF THE STANDARD CONCRETE BATCH DESIGN. THE FLY ASH SHALL CONFORM TO THE REQUIREMENTS OF TxDOT MATERIAL SPECIFICATION D-9-8900, AND SHALL NOT EXCEED 25% BY ABSOLUTE VOLUME OF THE SPECIFIED CEMENT CONTENT. THE MODULUS OF RUPTURE STRENGTHS MINIMUMS AND DEVELOPMENT PERIOD OF THE STANDARD CONCRETE MIX DESIGN SHALL REMAIN IN EFFECT AND SHALL BE VERIFIED BY A CONCRETE BATCH MIX DESIGN PREPARED AND TESTED BY A GEOTECHNICAL LAB AND SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY ENGINEERING/PUBLIC WORKS DEPARTMENT PRIOR TO PAVING OPERATIONS.
24. ALL PAVEMENT SAW CUT REQUIRED IN THE PLANS SHALL BE CONSIDERED SUBSIDIARY TO THE PAVING REMOVAL PAY ITEM REQUIRING IT.
25. BLOCK SOD SHALL BE PLACED 16" (ONE BLOCK WIDTH) WIDE ALONG THE EDGE OF ALL NEWLY CONSTRUCTED CURBS AND TO DRIVEWAY REPLACEMENT LIMITS.
26. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANALYZING WEATHER CONDITIONS AND TO SUSPEND OPERATIONS DURING PERIODS WHEN ADVERSE WEATHER CONDITIONS APPEAR LIKELY. NO CONCRETE SHALL BE PLACED WHEN THE TEMPERATURE IS 35°F AND RISING. HOWEVER, NO CONCRETE SHALL BE PLACED WHEN THE CONCRETE TEMPERATURE IS ABOVE 100°F. THE CONTRACTOR SHALL KEEP SUFFICIENT LENGTH OF COVERING MATERIAL ON THE JOB SITE TO PLACE OVER AND PROTECT THE SURFACE OF "FRESH" CONCRETE DURING PERIODS OF UNPREDICTED RAINS.

WASTEWATER CONSTRUCTION NOTES

1. CONTRACTOR SHALL PROVIDE RECORD OF LOCATION OF ALL STACKS, STUBS, LEADS, ETC. TO CITY OF ANGLETON.
2. SEPARATION DISTANCES FOR ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE GOVERNED BY THE "TEXAS NATURAL RESOURCE CONSERVATION COMMISSION RULES AND REGULATIONS FOR DESIGN CONSERVATION COMMISSION RULES AND REGULATIONS FOR DESIGN CRITERIA FOR SEWAGE SYSTEMS" SECTION 317.20, LATEST PRINTING.
3. MAINTAIN 12-INCH MINIMUM VERTICAL CLEARANCE AT CROSSINGS BETWEEN SANITARY SEWERS AND CULVERTS, UNLESS OTHERWISE NOTED.
4. WHERE SANITARY SEWER LINE CROSSES A WATER LINE WITH LESS THAN 9- FEET BUT MORE THAN 6-INCHES VERTICAL SEPARATION, PROVIDE ONE MINIMUM 18-FOOT JOINT OF PRESSURE RATED P.V.C. SANITARY SEWER (ASTM D2241, CLASS 150, SDR 26) CENTERED ON WATER LINE. INCLUDE COST OF WATER LINE CROSSING IN UNIT PRICE BID PER LINEAR FOOT FOR SANITARY SEWER IN APPROPRIATE SIZES.
5. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE UPON ENCOUNTERING ANY UNSUITABLE TRENCH CONDITIONS.
6. SANITARY SEWER LEADS UNDER OR WITHIN 1' OF EXISTING OR FUTURE PAVEMENT SHALL BE BACK FILLED WITH CEMENT STABILIZED SAND UP TO WITHIN 1' OF TOP OF PAVING SUBGRADE. CEMENT STABILIZED SAND BACK FILL FOR LEADS SHALL BE INCLUDED IN THE BID UNIT PRICE FOR LEADS.
7. LOW PRESSURE AIR TEST SHALL BE CONDUCTED PER TNRCC TAC 317.2., HOLDING TIMES SHALL BE AS ESTABLISHED BY TNRCC. CONTRACTOR TO PROVIDE TEST PLUGS AND RISERS. NO SEPARATE PAY.

8. CONTRACTOR TO OPEN CUT ALL SANITARY SEWER CONSTRUCTION UNLESS NOTE OTHER WISE, SEWER SERVICES TO BE INSTALLED FULL WIDTH OF ROADWAY--NO HALF STREET INSTALLATIONS.
9. CONTRACTOR SHALL AT ALL TIMES PROVIDE MAXIMUM UNINTERRUPTED SERVICE AND SHALL AVOID OF ANY ROUTING METHOD AND EQUIPMENT TO ACCOMPLISH THIS.
10. ALL SINGLE AND DOUBLE SERVICE LEAD SHALL BE A MINIMUM SIX INCH (6") UNLESS OTHERWISE DIRECTED BY THE ENGINEER/PUBLIC WORKS AND/OR FIELD ADJUSTED BY THE UTILITY DEPARTMENT IN THE FUTURE.

WATER CONSTRUCTION NOTES

1. CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURE AS SPECIFIED IN CONTRACT DOCUMENTS. THRUST BLOCKING SHALL BE CLASS "B" CONCRETE 2500 P.S.I. AND SHALL BE SUBSIDIARY TO THE BID ITEM PERTINENT TO ITS USE. ALL CEMENT STABILIZED SAND BACKFILL SHALL BE 1.5 SK/CY CEMENT CONTENT. ALL M.J. D.I. FITTINGS WILL HAVE M.J. RESTRAINTS (STARGRIP OR EQUAL) WRAP FITTINGS & RESTRAINTS WITH 10 MIL POLY.
2. SEPARATION DISTANCES OF ALL WATER MAIN AND SANITARY SEWER MAIN CONSTRUCTION SHALL BE GOVERNED BY THE "TEXAS NATURAL RESOURCE CONSERVATION COMMISSION RULES AND REGULATIONS FOR DESIGN CRITERIA FOR SEWAGE SYSTEMS," SECTION 317.20, LATEST PRINTING.
3. ALL 4" THROUGH 12" WATER MAINS TO BE P.V.C. PIPE, AWWA C-900, CLASS 150, SDR 18, MEETING THE REQUIREMENTS OF ANSI/NSF 61 UNLESS OTHERWISE NOTED.
4. WATER LINES UNDER OR WITHIN 1 FEET OF NEW OR EXISTING PAVEMENTS (STREETS AND DRIVEWAYS) SHALL BE BACK FILLED WITH CEMENT STABILIZED SAND AS SPECIFIED IN THE CONSTRUCTION DETAIL.
5. PROVIDE A MINIMUM SIX-INCHES (6") OF CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS.
6. 4-INCH THROUGH 12-INCH LINES TO HAVE A MINIMUM OF 4'-0" COVER BELOW TOP OF CURB. UNLESS OTHERWISE NOTED, VARY FLOW LINE UNIFORMLY FROM DEPTH SHOWN ON PLANS.
7. CENTERLINE OF FIRE HYDRANT TO BE LOCATED AT 3' FROM BACK OF CURB WITH CENTERLINE OF STEAMER NOZZLE 22 INCHES ABOVE FINISHED GRADE. TURN STEAMER OUTLET TO FACE STREET.
8. WHERE WATER LINE CROSSES SANITARY SEWER LINE OR LEAD WITH LESS THAN NINE FEET (9') VERTICAL SEPARATION, PROVIDE ONE MINIMUM 18-FOOT JOINT OF WATER LINE CENTERED ON LEAD. INCLUDE COST OF LEAD CROSSING IN UNIT PRICE BID PER LINEAR FOOT FOR WATER LINE IN APPROPRIATE SIZES.
9. THE CONTRACTOR AT ALL TIMES PROVIDE MAXIMUM UNINTERRUPTED FLOW TO ALL SERVICES AND MAINS AND SHALL AVOID OF ANY ROUTING METHOD AND EQUIPMENT TO ACCOMPLISH THIS.

CENTERPOINT ENERGY / ENTEX NOTES

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE NOT USUALLY SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (979) 849-4364 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- * WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (800) 752-8036 OR (713) 659-2111 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- * WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- * WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- * FOR EMERGENCIES REGARDING GAS LINES CALL (800) 659-2111 OR (713) 659-2111.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-5769.

WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT 713-207-2222.

SBC NOTES

THE LOCATIONS OF SOUTHWESTERN BELL TELEPHONE CO. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

TEXAS NEW MEXICO POWER NOTES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL TEXAS NEW MEXICO POWER AT (979) 345-5667.

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ANGLETON CONSTRUCTION MANUAL (ACM) AND LAND DEVELOPMENT CODE, HEREAFTER REFERRED TO THE ACM AND THE LDC.
2. APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, ADEQUACY, AND COMPLIANCE OF THE SUBMITTED PLANS.
3. ALL RESPONSIBILITY FOR DESIGN RESTS ON ENGINEER WHO PREPARED THEM, IN APPROVING THESE PLANS, THE CITY MUST RELY ON THE ADEQUACY AND ACCURACY OF THE DESIGN ENGINEER.
4. DESIGNS SHALL BE IN COMPLETE COMPLIANCE WITH THE LDC AND THE ACM. ANY WAIVER, DEVIATION, VARIANCE, OR EXCEPTION FROM ANY SPECIFIC REQUIREMENT(S) OF THE LDC OR ACM THAT WERE NOT EXPRESSLY REQUESTED WHEN PLANS ARE SUBMITTED, SHALL NOT BE CONSTRUED TO HAVE BEEN GRANTED IF PLANS ARE APPROVED. IT IS THE RESPONSIBILITY OF THE ENGINEER TO MAKE SUCH A WAIVER PROACTIVELY WHEN PLANS ARE SUBMITTED.
5. A MINIMUM OF TWO EXISTING BENCHMARKS SHOULD BE SHOWN ON THE PLANS. IN ADDITION, TWO PERMANENT BENCHMARKS PER SUBDIVISION SHALL BE INSTALLED IN EACH NEW SUBDIVISION TO INCLUDE DESCRIPTION, LOCATION, AND ELEVATION AND TIE TO CITY STANDARDS.
6. CAST BRONZE SURVEY MARKERS SHALL BE PLACED IN CONCRETE IN PERMANENT, ACCESSIBLE LOCATIONS AT THE TIME OF CONSTRUCTION. THE LOCATIONS OF THE MARKERS SHALL BE INDICATED ON THE CONSTRUCTION PLANS. A MINIMUM OF ONE MARKER SHALL BE PLACED FOR EACH 20 ACRES OF THE PROJECT.
7. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVEY A PRE-CONSTRUCTION CONFERENCE WITH THE CITY, THE DEVELOPER'S CONSULTING ENGINEER, CONTRACTOR, AND ANY OTHER AFFECTED PARTIES. THE CITY SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
8. THE CONTRACTOR SHALL PROVIDE THE CITY A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION.
9. BARRICADES, BUILT TO CITY SPECIFICATIONS, SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY.
10. IF BLASTING IS PLANNED, A BLASTING PERMIT MUST BE SECURED PRIOR TO COMMENCEMENT OF ANY BLASTING.
11. ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE SUBDIVISION.
12. THE LOCATION OF ANY WATER OR WASTEWATER LINES SHOWN ON THE PLANS MUST BE VERIFIED BY THE PUBLIC WORKS DEPARTMENT.
13. USE ONE CALL UTILITY SYSTEM: DIAL 1-800-344-8377, 48 HOURS BEFORE YOU DIG.
14. ALL STORM SEWER PIPES TO BE CLASS III RCP UNLESS NOTED OTHERWISE. SPECIAL NOTES FOR PLANS, WHEN APPLICABLE.
15. CONSTRUCTED STREET SECTIONS SHALL SHOW THE FOLLOWING:
- a. PROVIDE STREET NAMES, WIDTH OF R.O.W., OR OTHER METHODS TO IDENTIFY PROPOSED DESIGN OF DIFFERENT PAVEMENT THICKNESS. IN WRITING OR GRAPHICALLY, DESCRIBE THE STREET SECTION(S) TO BE CONSTRUCTED.
- b. MANHOLE FRAMES, COVERS, AND WATER VALVE COVERS WILL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY A QUALIFIED CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.
- c. CROWNS OF INTERSECTING STREETS WILL CULMINATE IN A DISTANCE OF 40 FEET FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED. INLETS ON THE INTERSECTING STREET SHALL NOT BE CONSTRUCTED WITHIN 40 FEET OF THE VALLEY GUTTER, UNLESS OTHERWISE NOTED.
- d. PRIOR TO FINAL ACCEPTANCE OF A STREET OUTSIDE THE CITY LIMITS, STREET NAME SIGNS CONFORMING TO COUNTY STANDARDS SHALL BE INSTALLED BY DEVELOPER.
- e. SIDEWALK REQUIREMENTS (GIVE STREET NAME AND LOCATION OF REQUIRED SIDEWALK, I.E., NORTH, SOUTH, EAST, OR WEST SIDE).
- f. A CURB LAY DOWN WHERE REQUIRED WHEN ALL POINTS OF SIDEWALKS INTERSECTS CURBS.
- g. INSIDE THE CITY LIMITS, SIDEWALKS SHALL BE COMPLETED PRIOR TO ACCEPTANCE OF ANY DRIVEWAY APPROACHES AND/OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY. WHEN OUTSIDE THE CITY LIMITS, A LETTER OF CREDIT MAY BE POSTED OR OTHER SUITABLE FINANCIAL ARRANGEMENTS MAY BE MADE TO ENSURE CONSTRUCTION OF THE SIDEWALKS. IN EITHER CASE, SIDEWALKS ADJACENT TO "COMMON AREAS", PARKWAYS, OR OTHER LOCATIONS ON WHICH NO BUILDING CONSTRUCTION WILL TAKE PLACE, MUST BE CONSTRUCTED PRIOR TO FINAL ACCEPTANCE OF THE SUBDIVISION.
- h. A LICENSE AGREEMENT FOR LANDSCAPING MAINTENANCE AND IRRIGATION IN STREET R.O.W. SHALL BE EXECUTED BY THE DEVELOPER IN PARTY WITH THE CITY PRIOR TO FINAL ACCEPTANCE.
17. CALL THE CITY 48 HOURS PRIOR TO BEGINNING ANY WORK AND SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY AND ALL AFFECTED UTILITY PROVIDERS, THE GENERAL CONTRACTOR, THE DEVELOPER AND THE DEVELOPER'S ENGINEER.

CONSTRUCTION SEQUENCING

CALL THE CITY 48 HOURS PRIOR TO BEGINNING ANY WORK AND SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY AND ALL AFFECTED UTILITY PROVIDERS, THE GENERAL CONTRACTOR, THE DEVELOPER AND THE DEVELOPER'S ENGINEER.

OBTAIN A DEVELOPMENT PERMIT FROM THE CITY.

PROVIDE THE CITY WITH EVIDENCE ALL TCEQ LICENSES AND REQUIREMENTS ARE UP TO DATE.

INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY CLEARING AND GRUBBING. NOTIFY THE CITY WHEN INSTALLED.

ROUGH-CUT ALL REQUIRED OR NECESSARY PONDS. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF ANY EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A LOW-LEVEL OUTLET AND AN EMERGENCY OVERFLOW MEETING THE REQUIREMENTS OF THE LDC. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL FINAL RESTORATION IS ACHIEVED.

DELIVER APPROVED ROUGH-CUT SHEETS TO THE CITY ENGINEER PRIOR TO CLEARING AND GRUBBING.

ROUGH GRADE STREETS. NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME.

INSTALL ALL UTILITIES TO BE LOCATED UNDER THE PROPOSED PAVEMENT OR WITHIN THE ROAD RIGHT-OF-WAY.

DELIVER STORM SEWER CUT SHEETS TO THE CITY ENGINEER.

BEGIN INSTALLATION OF STORM SEWER LINES. UPON COMPLETION, RESTORE AS MUCH DISTURBED AREAS AS POSSIBLE, PARTICULARLY CHANNELS AND LARGE OPEN AREAS.

DELIVER FINAL GRADE CUT SHEETS TO THE CITY ENGINEER.

RE-GRADE STREETS TO SUB-GRADE.

ENSURE THAT UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY 1ST/ COURSE BASE MATERIAL ON STREETS.

INSTALL CURB AND GUTTER

LAY FINAL BASE COURSE ON ALL STREETS.

PLACE CONCRETE.

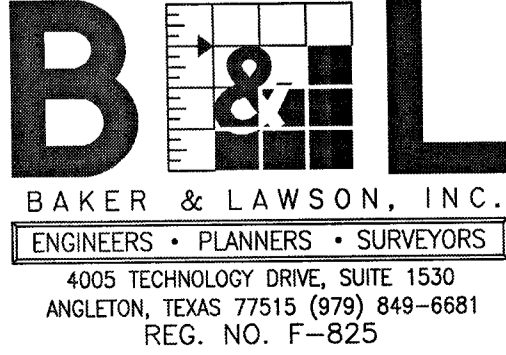
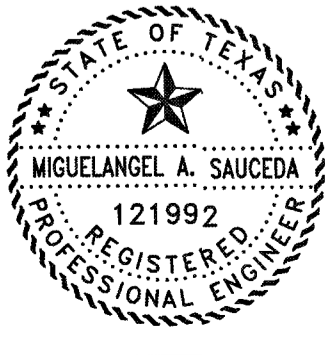
COMPLETE FINAL GRADING AND RESTORATION OF DETENTION, SEDIMENTATION/FILTRATION PONDS.

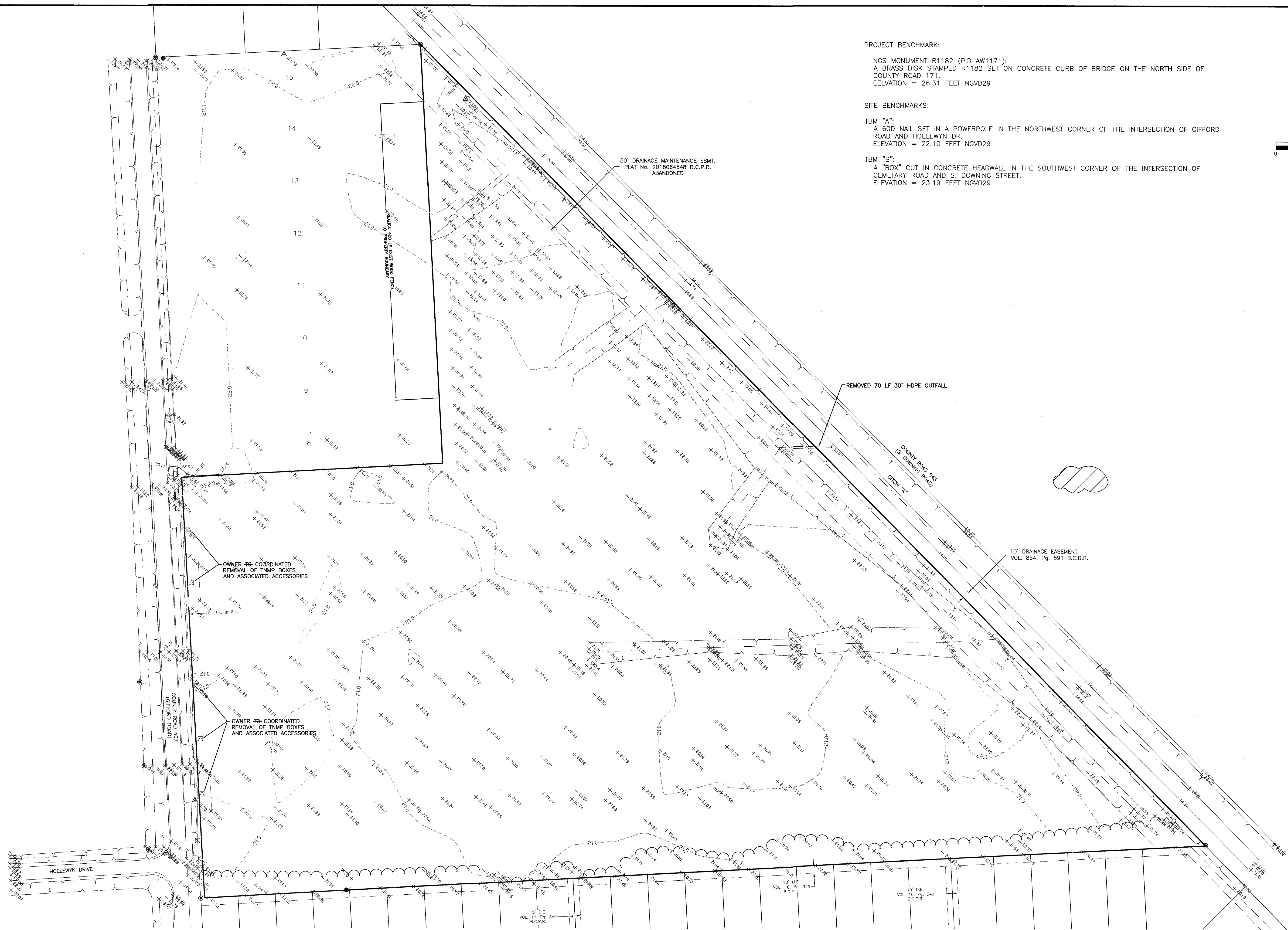
COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.

REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.

COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED.

RECORD DRAWING

				DESIGNED MS			The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992 Date: 11/22/21	OWNER: DAVID ROGERS ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057	PLAN: _____ PROFILE: _____ HORIZONTAL: _____ VERTICAL: _____	GIFFORD MEADOWS A 17.37 AC, 85-LOT SUBDIVISION ANGLETON, TEXAS 77515	CONSTRUCTION NOTES	PROJECT NO. 13743	2	13743 SHEET SET - AS BUILT.dwg
				DRAWN _____										
				CHECKED _____										
				DATE _____										
NO.	DATE	DESCRIPTION	APPROVED	REVISIONS										



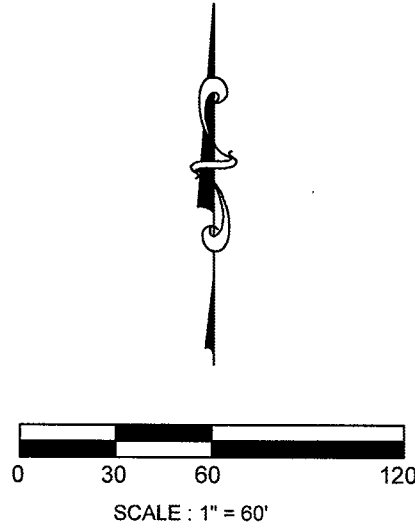
PROJECT BENCHMARK:

NGS MONUMENT R1182 (PID AW1171):
A BRASS DISK STAMPED R1182 SET ON CONCRETE CURB OF BRIDGE ON THE NORTH SIDE OF
COUNTY ROAD 171.
ELEVATION = 26.31 FEET NGVD29

SITE BENCHMARKS:

TBM "A":
A 60D NAIL SET IN A POWERPOLE IN THE NORTHWEST CORNER OF THE INTERSECTION OF GIFFORD
ROAD AND HOELEWYN DR.
ELEVATION = 22.10 FEET NGVD29

TBM "B":
A "BOX" CUT IN CONCRETE HEADWALL IN THE SOUTHWEST CORNER OF THE INTERSECTION OF
CEMETARY ROAD AND S. DOWNING STREET.
ELEVATION = 23.19 FEET NGVD29

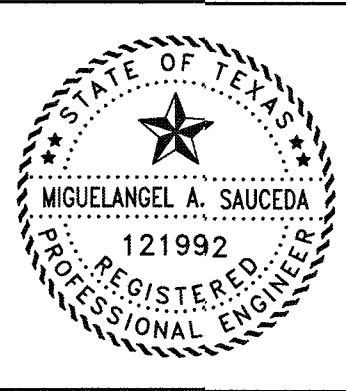


RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	MS
DRAWN	
CHECKED	
DATE	

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



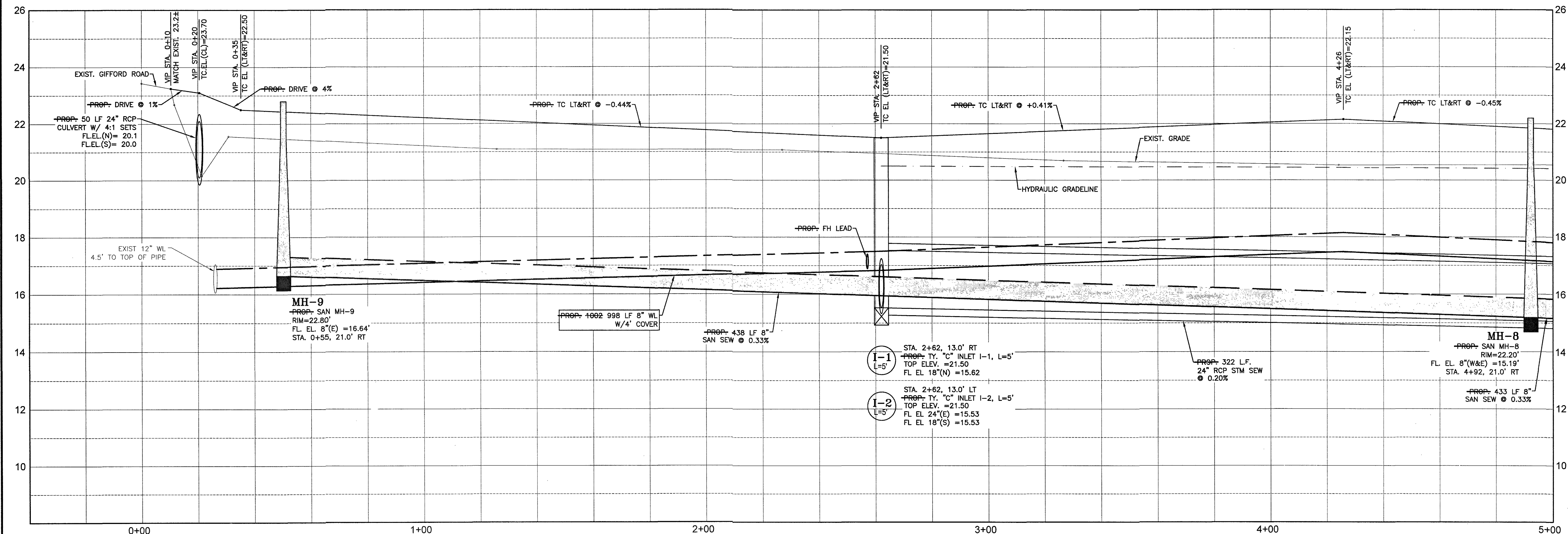
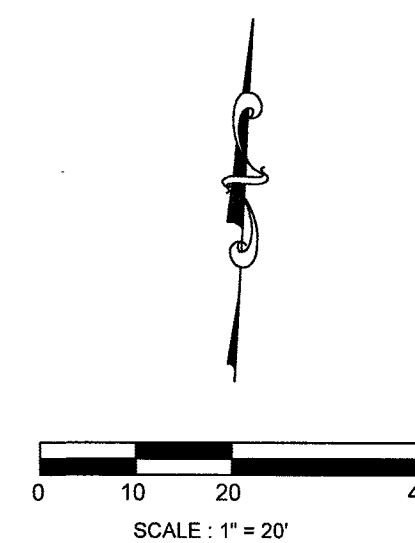
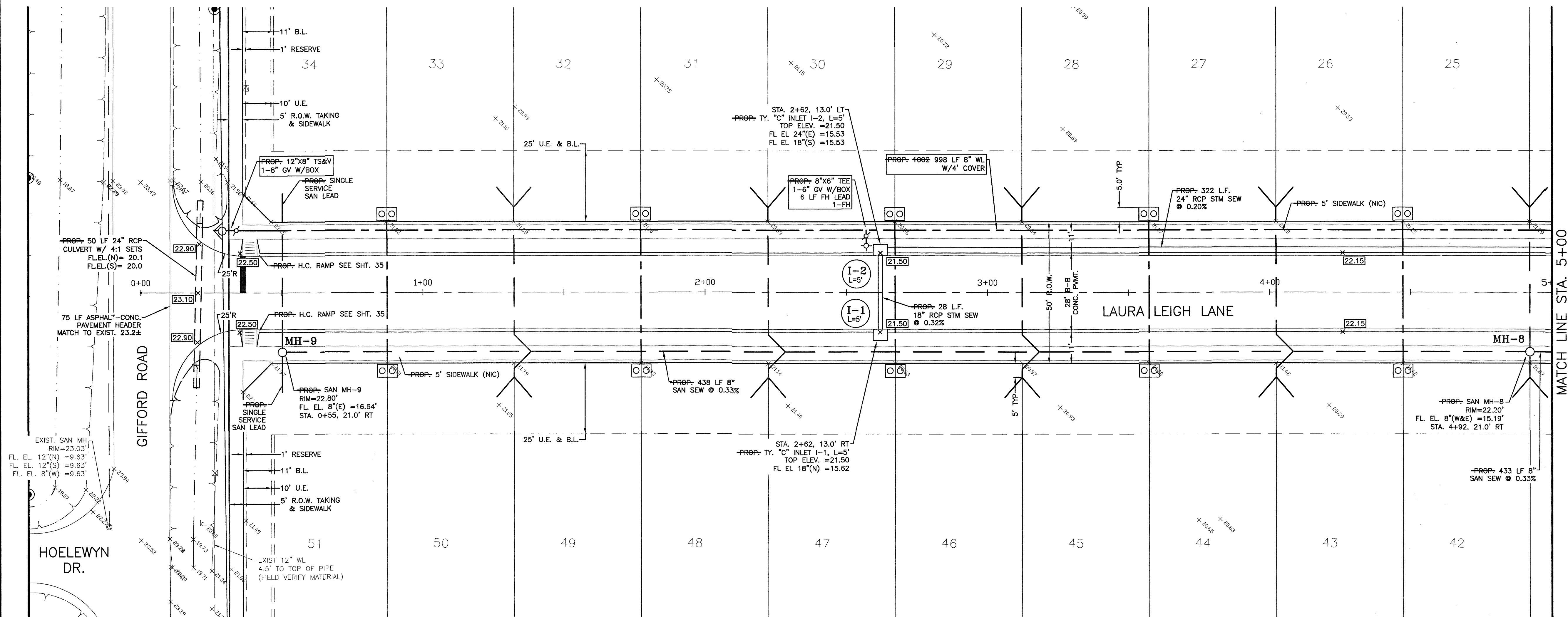
The seal appearing on
this document was
authorized by
Miguelangel A. Saucedo
P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: 1" = 60'
PROFILE:
HORIZONTAL:
VERTICAL:

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

EXISTING CONDITIONS



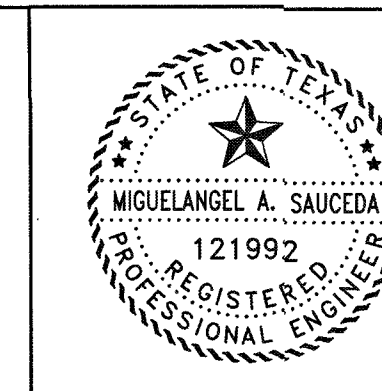
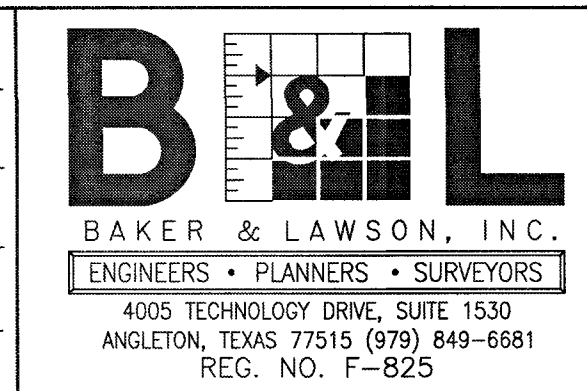
SYMBOLS LEGEND

- SINGLE WATER METER
- DOUBLE WATER METER W/ MUELLER U-BRANCH
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1)
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
1	04/13/21	MOVE WL CLOSER TO CURB, RELOCATE SERVICES	
REVISIONS			

DESIGNED	MS
DRAWN	
CHECKED	
DATE	



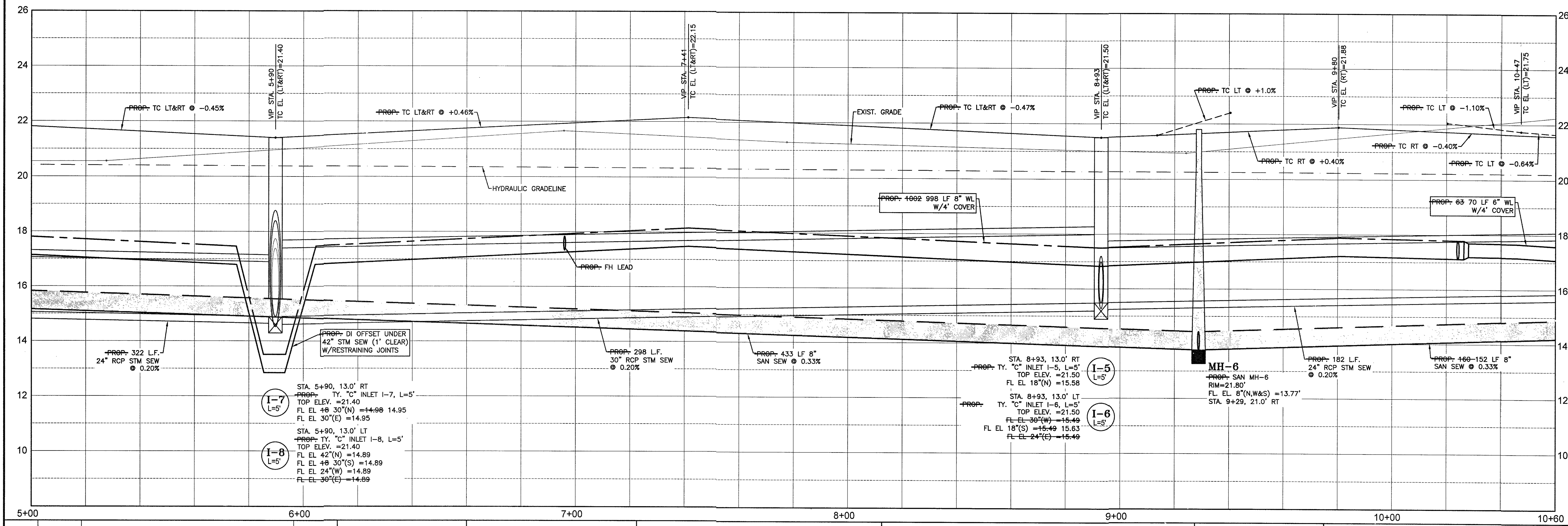
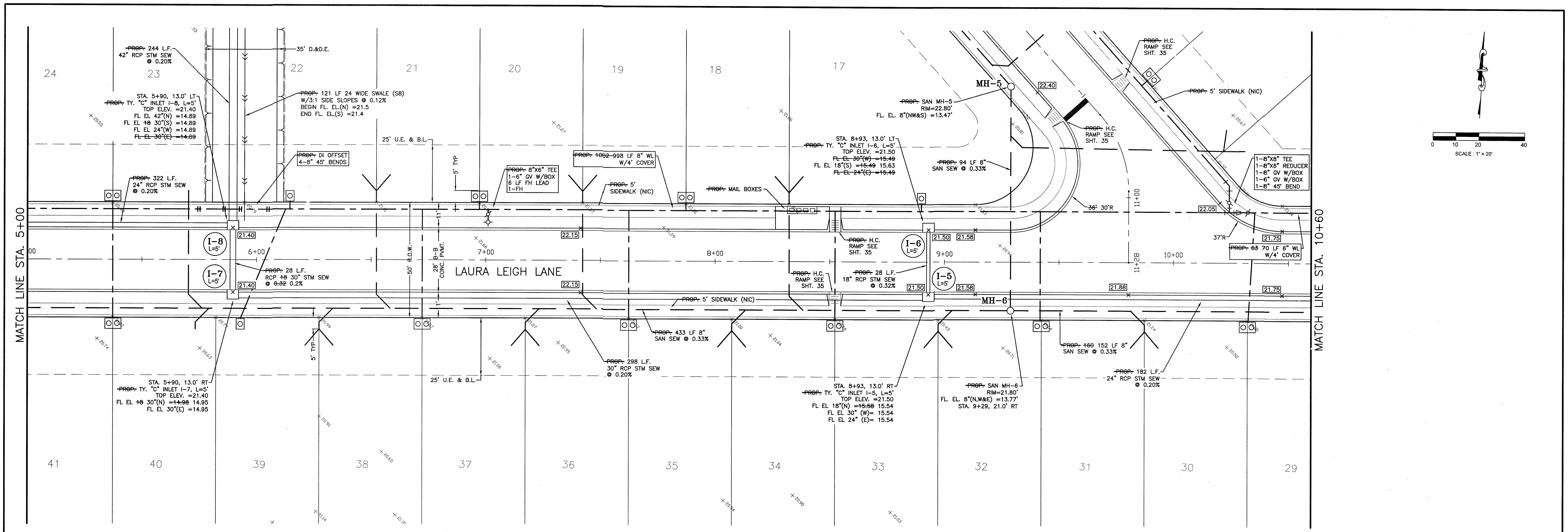
The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: 1" = 20'
PROFILE:
HORIZONTAL: 1" = 2'
VERTICAL: 1" = 20'

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
LAURA LEIGH LANE
STA. 0+00 TO 5+00
PROJECT NO. 13743



SYMBOLS LEGEND

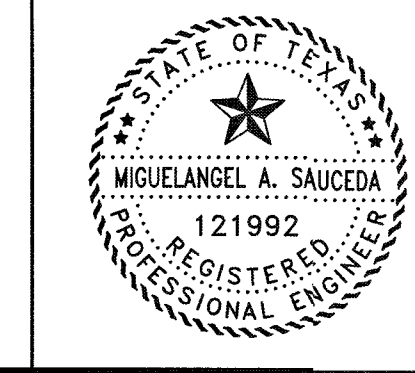
- SINGLE WATER METER
- DOUBLE WATER METER W/ MUELLER U-BRANCH
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1)
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)

RECORD DRAWING

REVISIONS		
NO.	DATE	DESCRIPTION
1	04/13/21	MOVE WL. REVISE STM RUN I-5 TO I-8

DESIGNED MS
DRAWN
CHECKED
DATE

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 649-6681
REG. NO. F-825



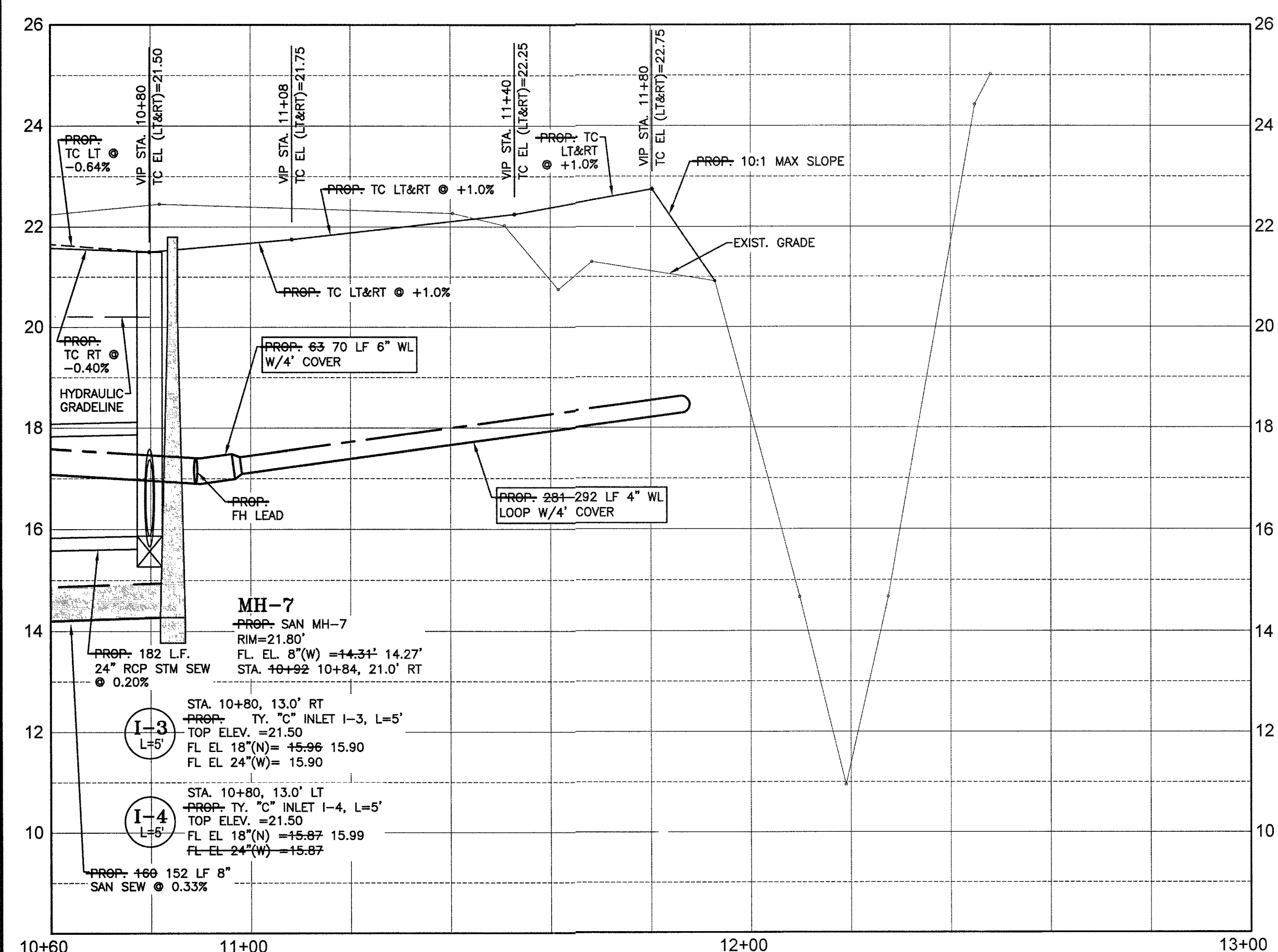
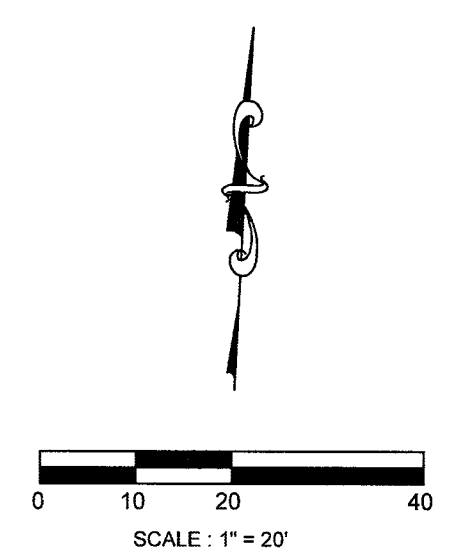
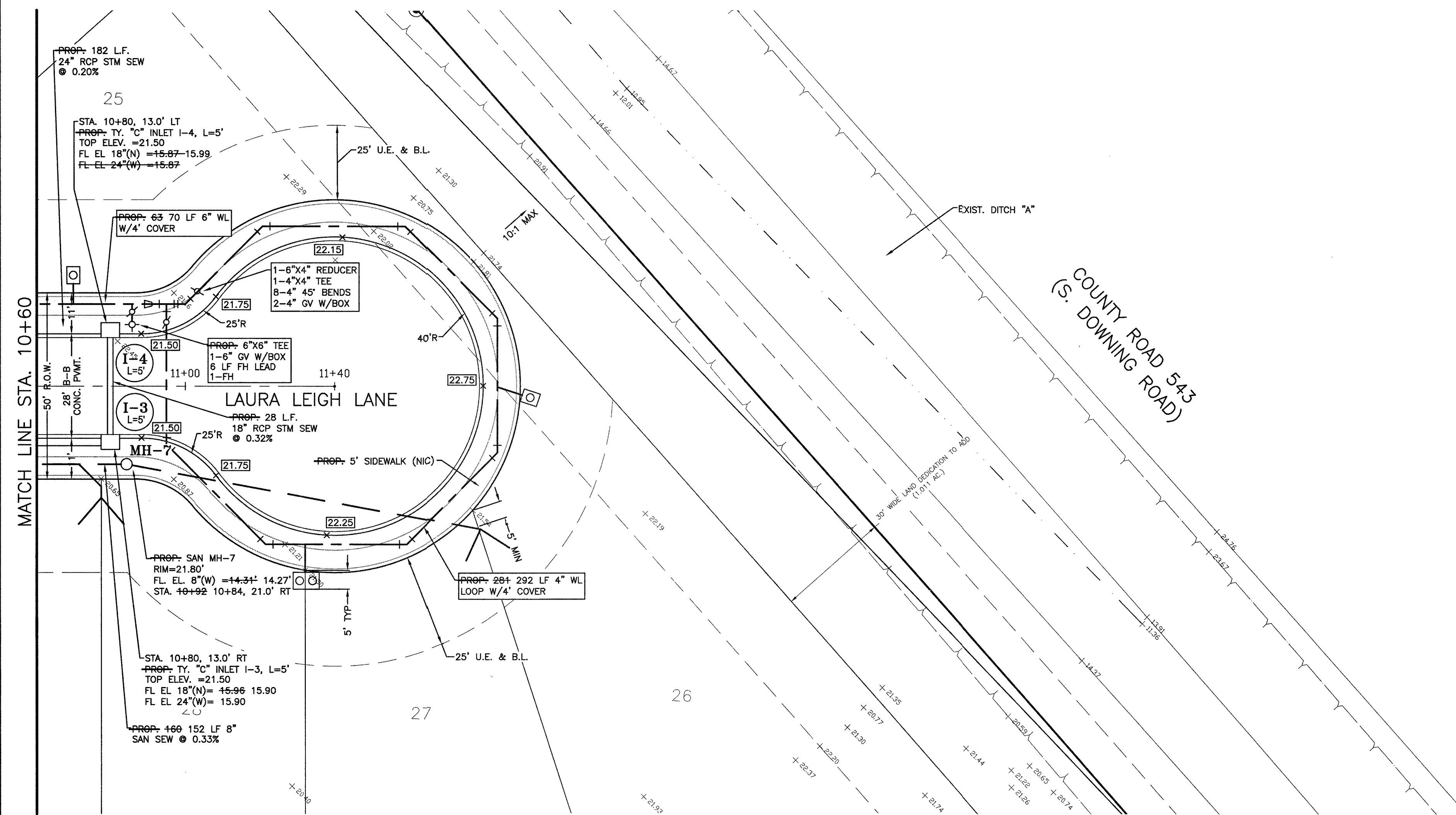
The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: 1" = 20'
PROFILE:
HORIZONTAL: 1" = 2'
VERTICAL: 1" = 20'

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
LAURA LEIGH LANE
STA. 5+00 TO 10+60
PROJECT NO. 13743



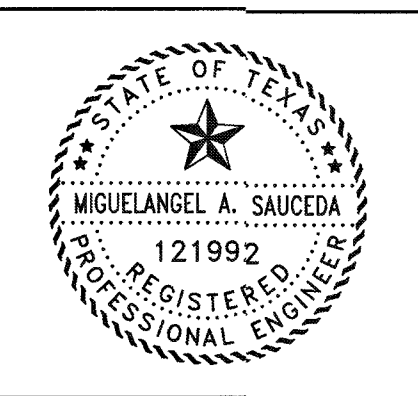
- SYMBOLS LEGEND**
- SINGLE WATER METER
 - DOUBLE WATER METER W/ MUELLER U-BRANCH
 - FIRE HYDRANT
 - WATER VALVE
 - TAPPING SLEEVE AND VALVE
 - REDUCER
 - STORM SEWER MANHOLE (SMH-1)
 - SANITARY SEWER MANHOLE (MH-1)
 - TOP BANK
 - STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
 - SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
 - WATERLINE (AWWA C900, CLASS 150, DR18)

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
1	04/13/21	MOVE WL. MOVE MH-7. REVISE STM RUN I4 TO I5	
REVISIONS			

DESIGNED	MS
DRAWN	
CHECKED	
DATE	

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 649-6681
REG. NO. F-825



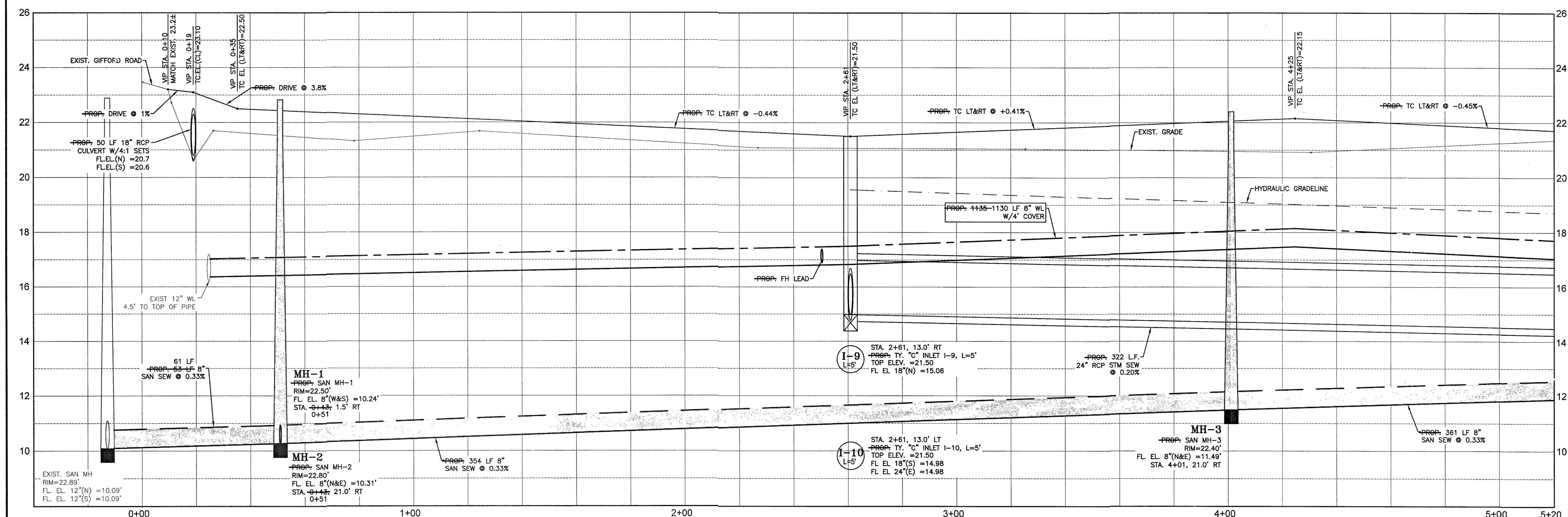
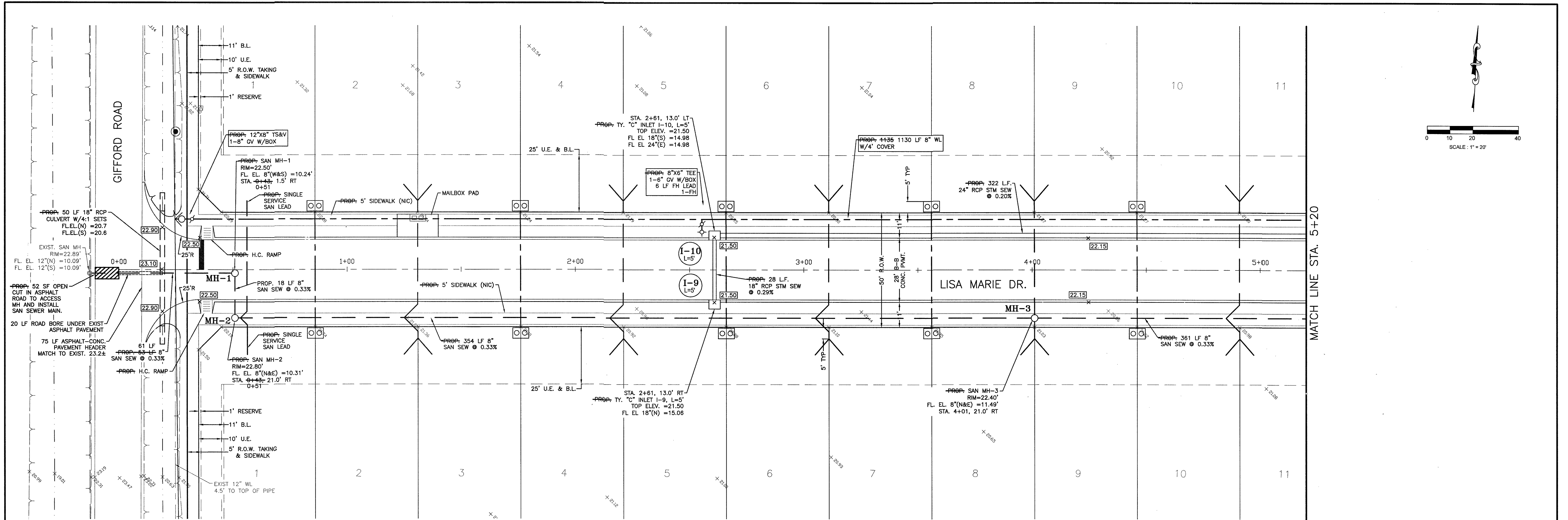
The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: 1" = 20'
PROFILE:
HORIZONTAL: 1" = 2'
VERTICAL: 1" = 20'

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
LAURA LEIGH LANE
STA. 10+60 TO 11+40
PROJECT NO. 13743

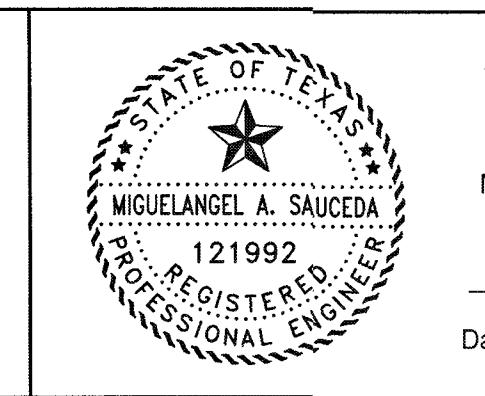
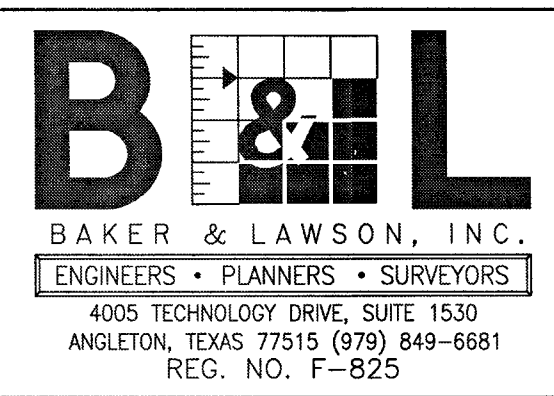


- SYMBOLS LEGEND**
- SINGLE WATER METER
 - DOUBLE WATER METER W/ MUELLER U-BRANCH
 - FIRE HYDRANT
 - WATER VALVE
 - TAPPING SLEEVE AND VALVE
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 - STORM SEWER MANHOLE (SMH-1)
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 - STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
 - SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
 - WATERLINE (AWWA C900, CLASS 150, DR18)

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED MS
 DRAWN
 CHECKED
 DATE



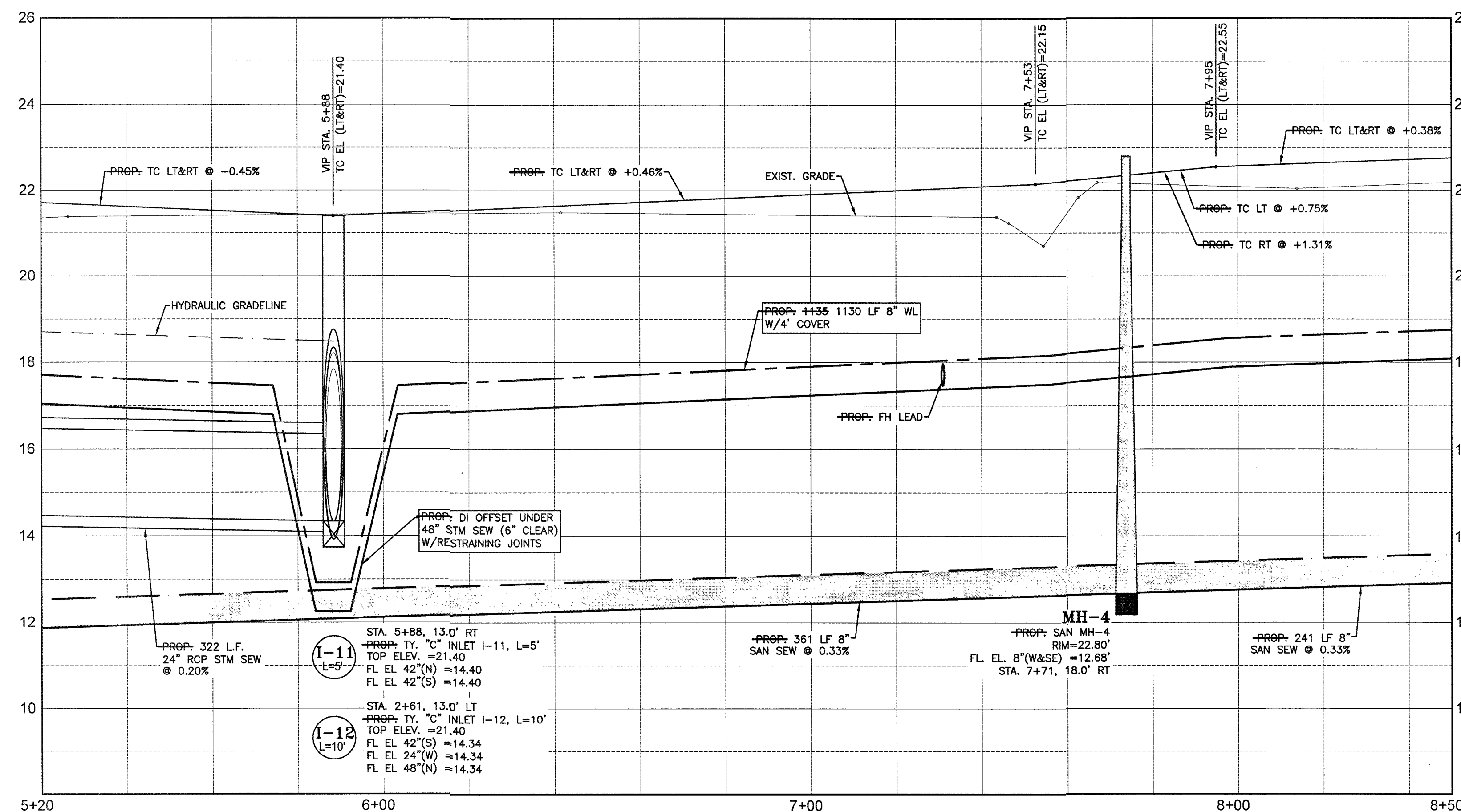
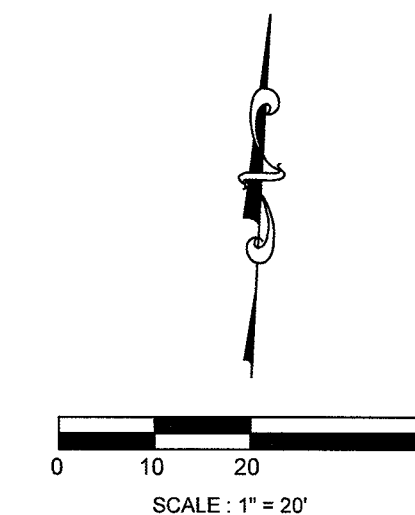
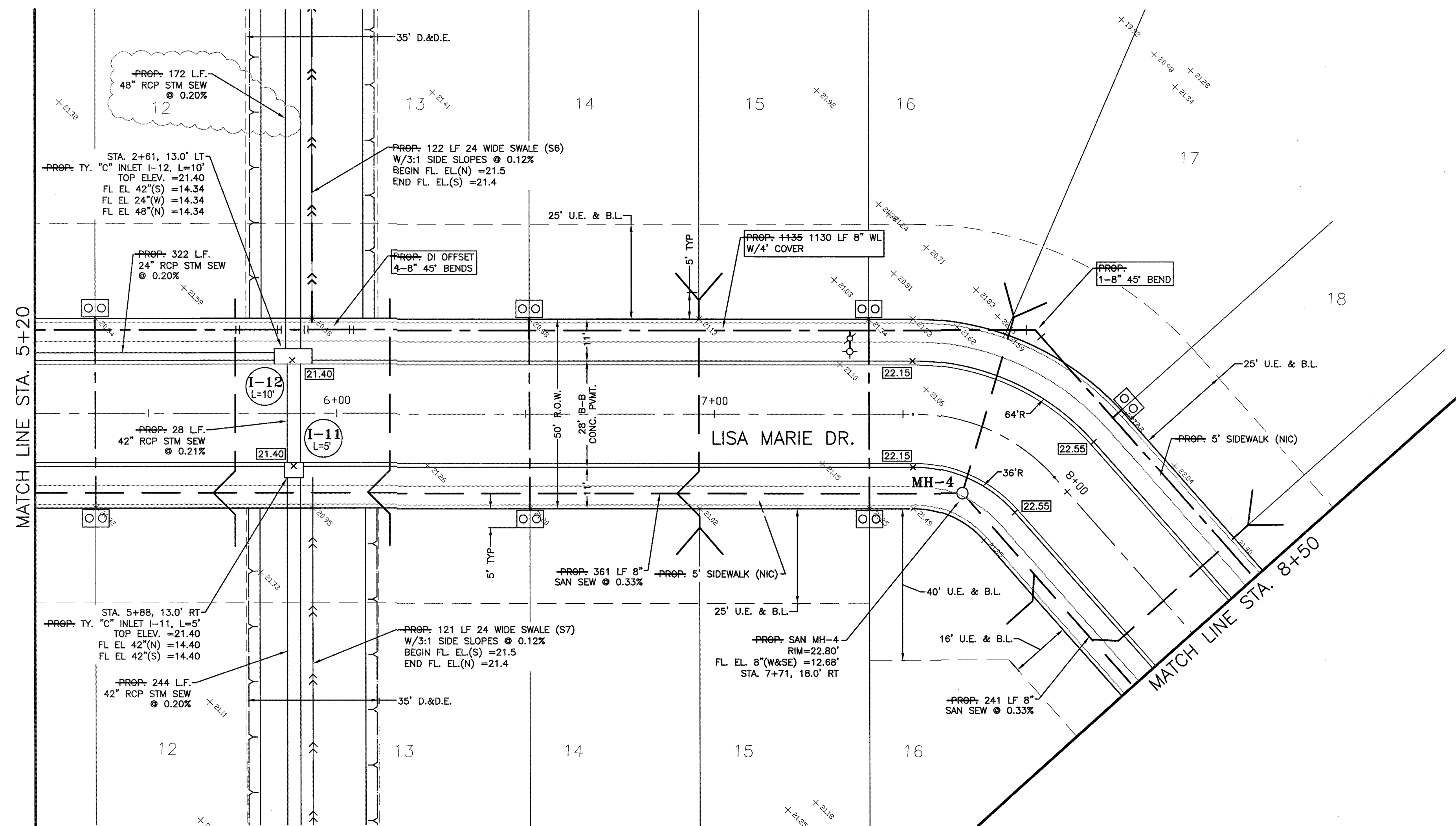
The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
 Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: 1" = 20'
 PROFILE:
 HORIZONTAL: 1" = 2'
 VERTICAL: 1" = 20'

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
 LISA MARIE DRIVE
 STA. 0+00 TO 5+20
 PROJECT NO. 13743



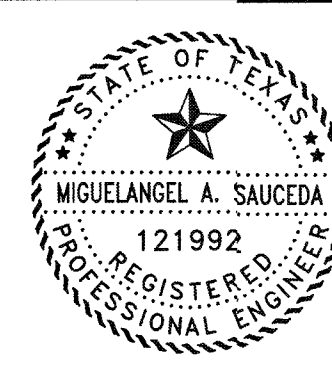
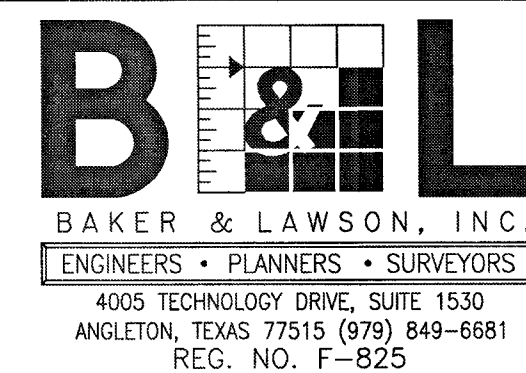
SYMBOLS LEGEND

- SINGLE WATER METER
- DOUBLE WATER METER W/ MUELLER U-BRANCH
- FIRE HYDRANT
- WATER VALVE
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- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
2	04/08/21	MOVE WL CLOSER TO CURB	
1	1/25/21	48" HDPE CHANGED TO RCP	
REVISIONS			

DESIGNED MS
DRAWN
CHECKED
DATE



The seal appearing on this drawing is authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

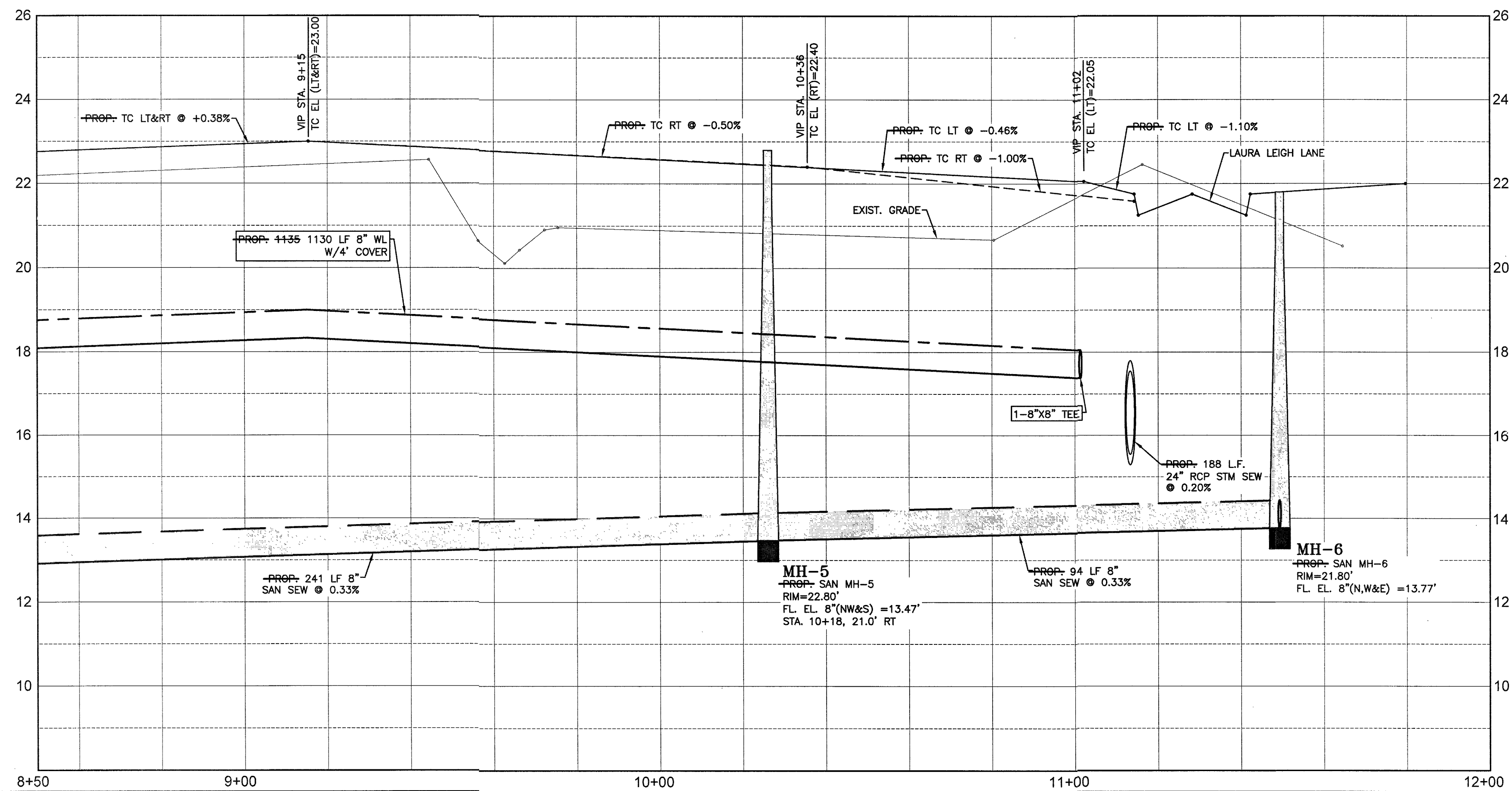
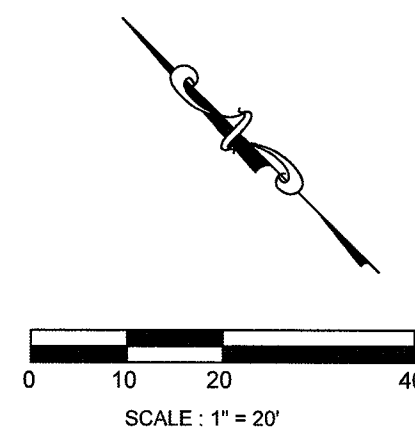
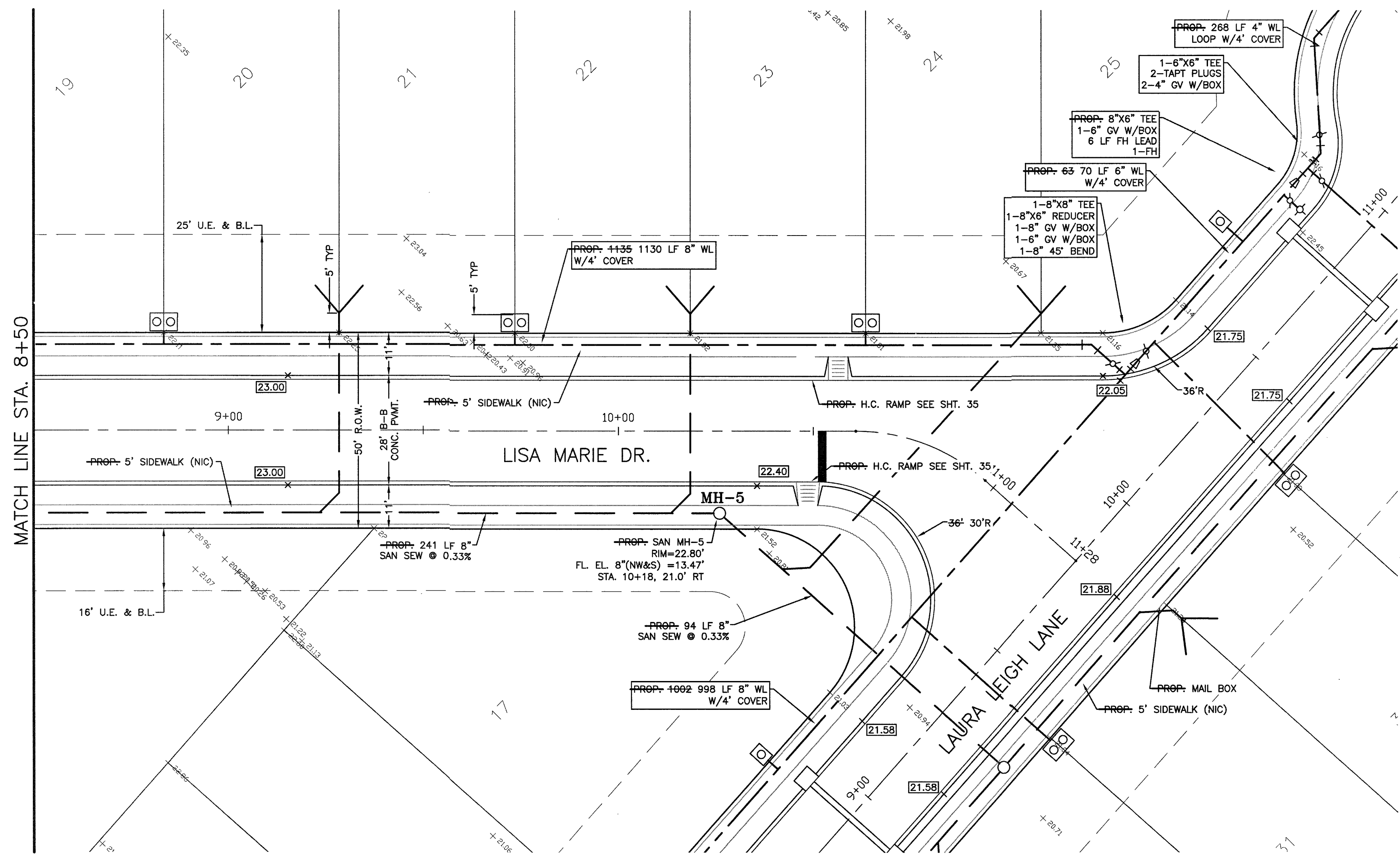
OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: 1" = 20'
PROFILE:
HORIZONTAL: 1" = 2'
VERTICAL: 1" = 20'

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
LISA MARIE DRIVE
STA. 5+20 TO 8+50

PROJECT NO. 13743



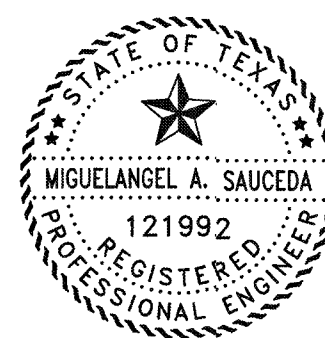
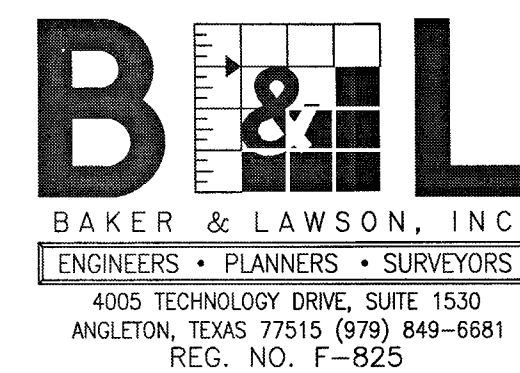
SYMBOLS LEGEND

- WATER METER
- DOUBLE WATER METER W/
MUELLER U-BRANCH
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1)
- TOP BANK
- STORM SEWER LINE
(REINFORCED CONCRETE PIPE,
ASTM C76)
- SANITARY SEWER LINE
(D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900,
CLASS 150, DR18)

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
1	4/13/21	REDUCE CURB RADII TO 30'	
REVISIONS			

DESIGNED MS
DRAWN
CHECKED
DATE



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Date: 11/22/21

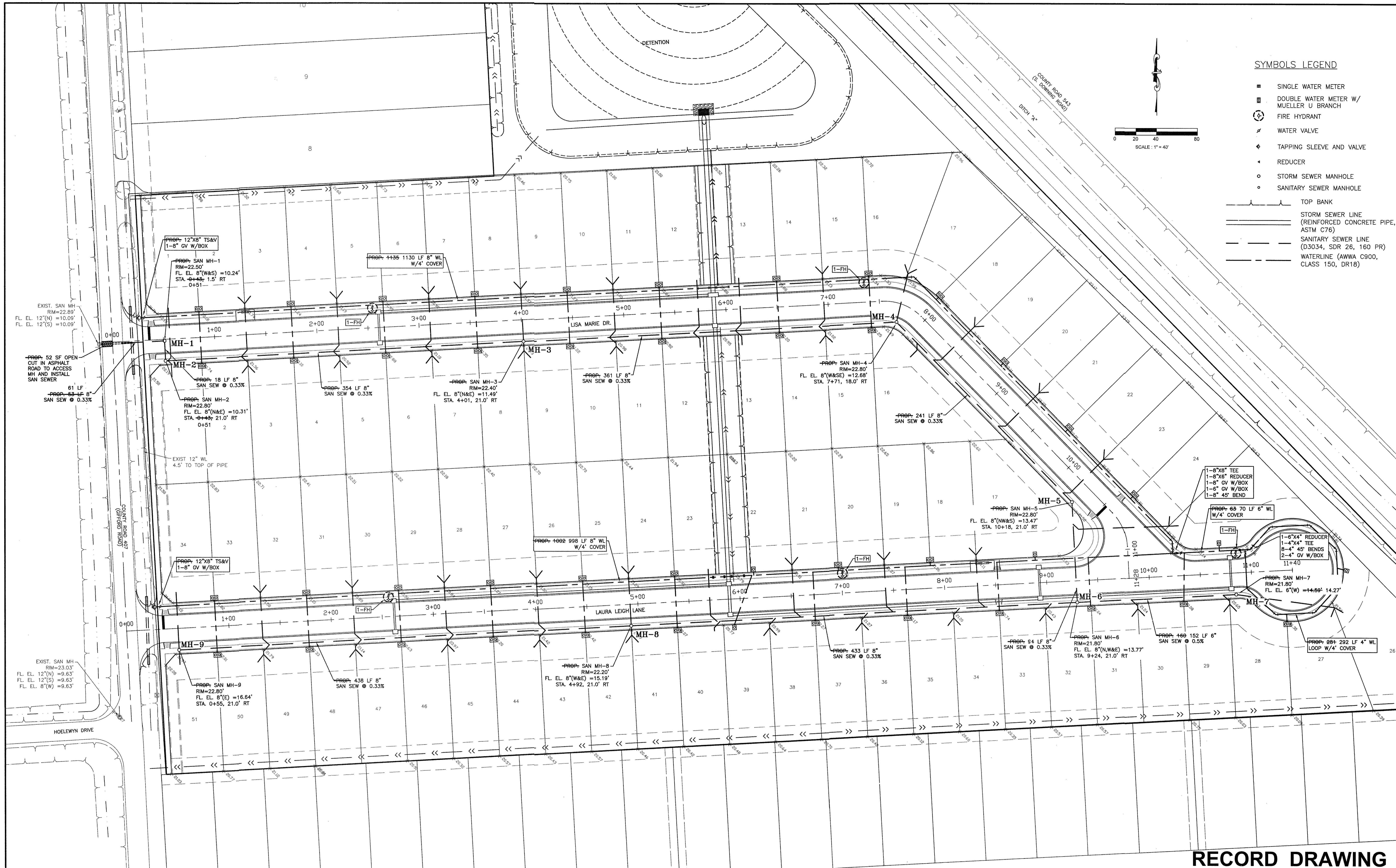
OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: 1" = 20'
PROFILE:
HORIZONTAL: 1" = 2'
VERTICAL: 1" = 20'

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
LISA MARIE DRIVE
STA. 8+50 TO 11+28

PROJECT NO. 13743



SYMBOLS LEGEND

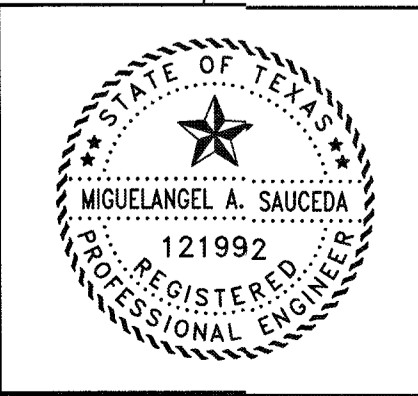
- SINGLE WATER METER
- DOUBLE WATER METER W/ MUELLER U BRANCH
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
1	04/13/21	MOVE WL CLOSER TO CURB. MOVE MH-7	

DESIGNED MS
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DATE

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ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



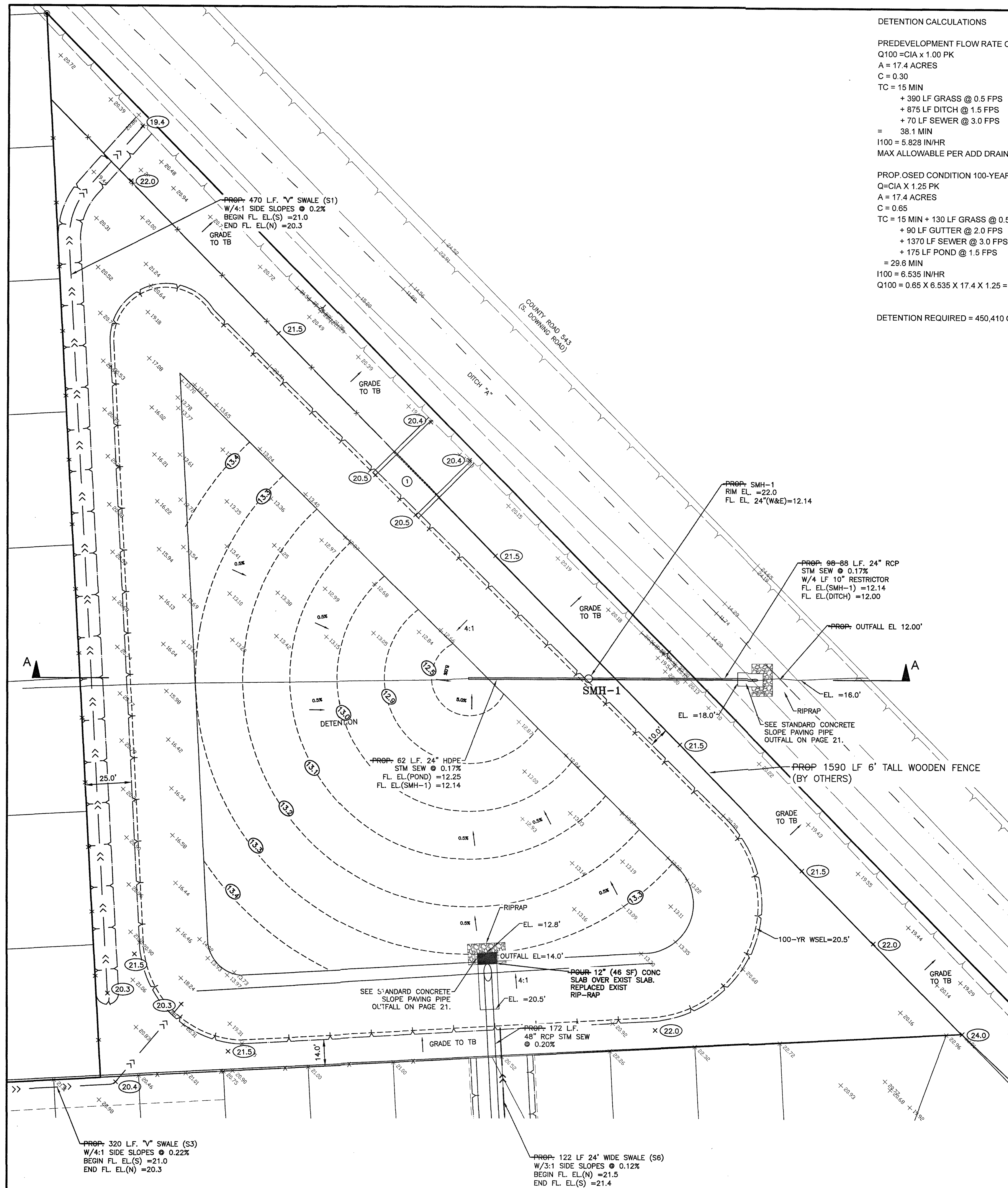
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Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

PLAN: 1" = 40'
PROFILE:
HORIZONTAL:
VERTICAL:

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

UTILITY LAYOUT
PROJECT NO. 13743
10



DETENTION CALCULATIONS

PREDEVELOPMENT FLOW RATE CALCULATION (100-YEAR STORM)

Q100 = CIA x 1.00 PK
A = 17.4 ACRES
C = 0.30
TC = 15 MIN
+ 390 LF GRASS @ 0.5 FPS
+ 875 LF DITCH @ 1.5 FPS
+ 70 LF SEWER @ 3.0 FPS
= 38.1 MIN
1100 = 5.828 IN/HR
MAX ALLOWABLE PER ADD DRAINAGE STUDY 0.74 X 17.4 = 12.88 CFS

PROPOSED CONDITION 100-YEAR STORM

Q = CIA X 1.25 PK
A = 17.4 ACRES
C = 0.65
TC = 15 MIN + 130 LF GRASS @ 0.5
+ 90 LF GUTTER @ 2.0 FPS
+ 1370 LF SEWER @ 3.0 FPS
+ 175 LF POND @ 1.5 FPS
= 29.6 MIN
1100 = 6.535 IN/HR
Q100 = 0.65 X 6.535 X 17.4 X 1.25 = 92.385 CFS

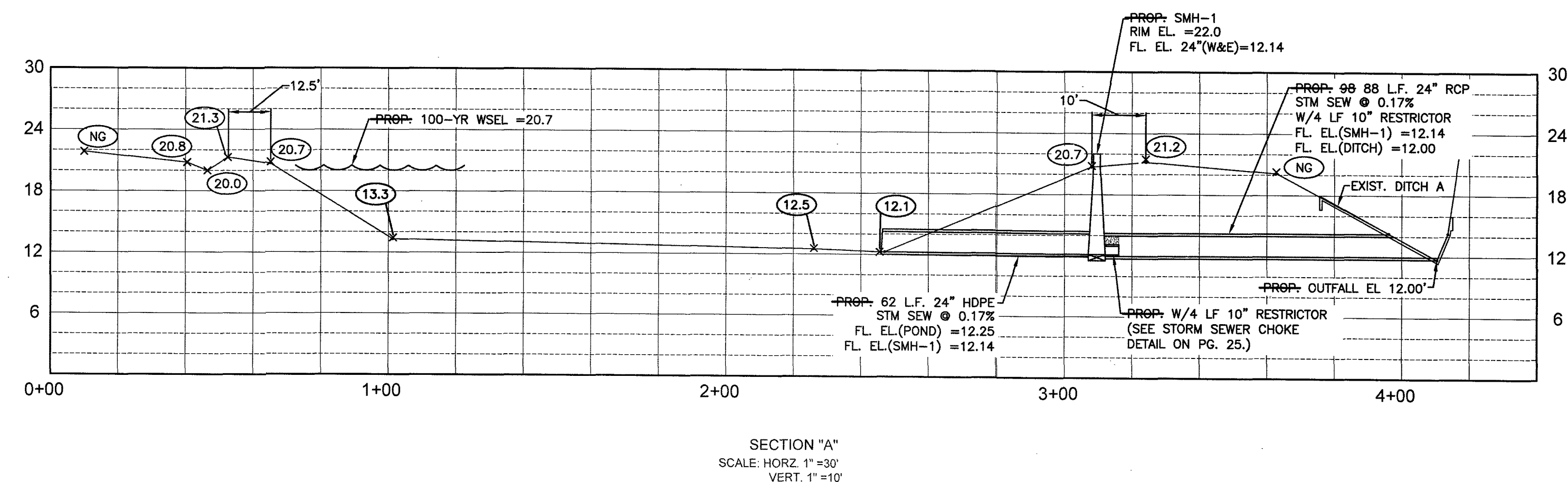
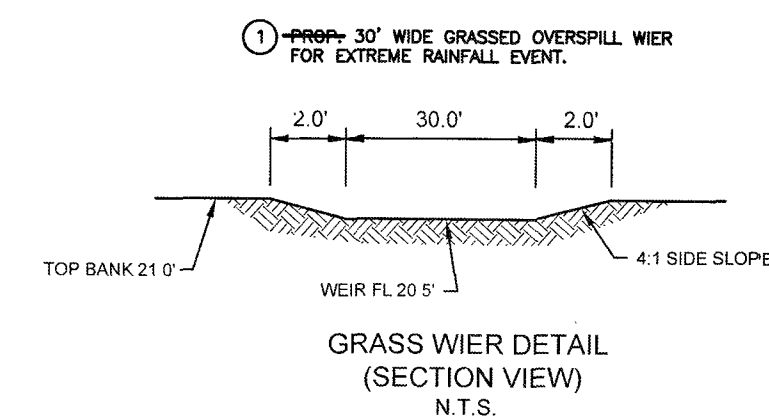
DETENTION REQUIRED = 450,410 CF = 10.34 AC-FT

POND INFORMATION

TOP BANK ELEVATION = 21.5'
AREA TOPBANK = 74,000-85,275 SF
BOTTOM ELEVATION = 5.0'
AREA BOTTOM = 22,100 SF

AREA @ 100-YEAR WSEL = 21.0' = 72,000-82,900 SF
AREA @ BOTTOM (EL = 12-4' 13.4') = 40,000-45,300 SF
AVERAGE DETENTION AREA = 56,000-64,100
DETENTION DEPTH = 8'-7"

DETENTION PROVIDED = 471,467-493,570 CF = 10-0-11.33 AC-FT

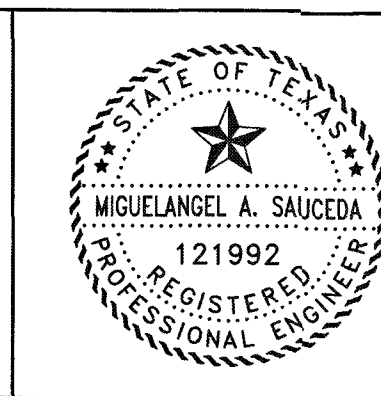


RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
4	10/29/21	RAISE POND BOTTOM 1 FT. WIDEN TOPBANK	
3	4/21/21	CHANGE WET POND TO DRY POND	
2	4/13/21	REDUCE POND OUTFALL LENGTH	
1	1/25/21	48\" HOPE CHANGED TO RCP	
REVISIONS			

DESIGNED	MS
DRAWN	
CHECKED	
DATE	

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ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



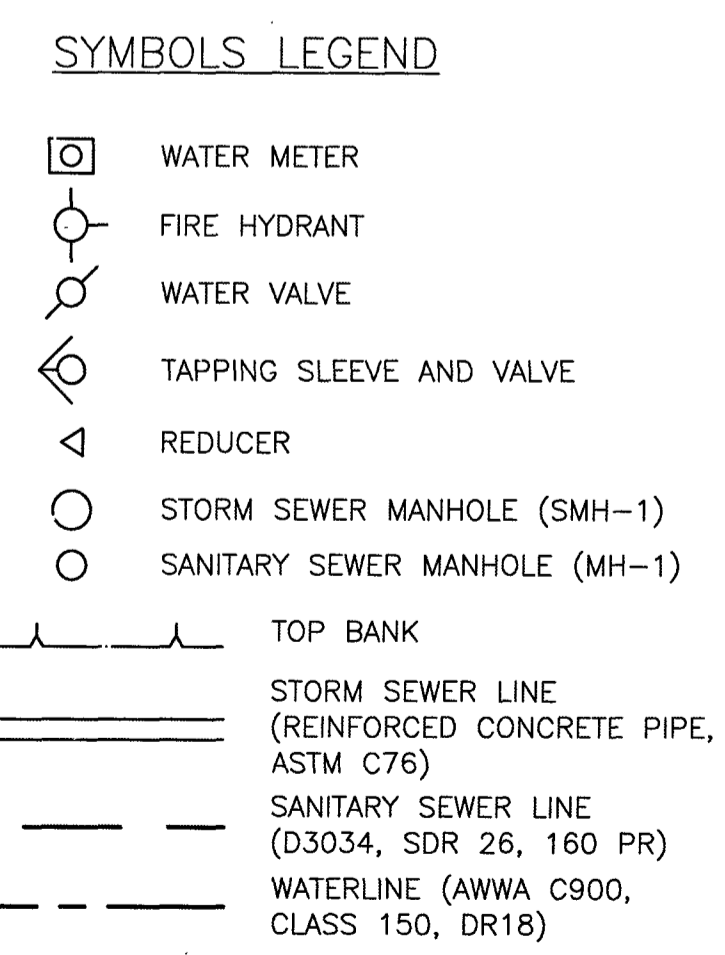
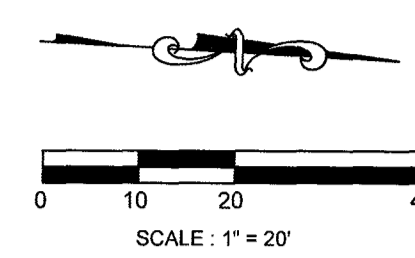
The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

PLAN: 1" = 30'
PROFILE:
HORIZONTAL:
VERTICAL:

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

DETENTION POND DESIGN AND CROSS SECTION
PROJECT NO. 13743



RECORD DRAWING

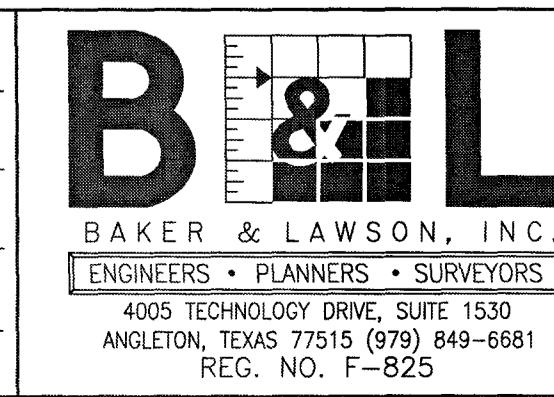
NO.	DATE	DESCRIPTION	APPROVED
3	04/21/21	CHANGE WET POND TO DRY POND	
2	04/08/21	CHANGE RUN 1-7 TO 1-8 TO 30"	
1	1/25/21	48" HDPE CHANGED TO RCP	
REVISIONS			

DESIGNED MS

DRAWN _____

CHECKED _____

DATE _____



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authorized by
Miguelangel A. Saucedo
P.E. 121992

Miguel A. Saucedo

Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: _____ 1" = 20'

PROFILE: _____

HORIZONTAL: _____ 1" = 2'

VERTICAL: _____ 1" = 20'

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
OUTFALL 1

DRAINAGE HYDRAULIC CALCULATIONS FOR THE 5-YEAR STORM EVENT

D.A. NO.	RUN	AREA (AC)	C	Tc (MIN)	I 5-YR (in/hr)	CUMM AREA (AC)	WEIGHTED C	Q 5-YR (CFS)
DA-S1	S1 TO OUT	2.10	0.65	15	5.657	2.10	0.65	7.72
DA-S2	S2 TO OUT	0.20	0.65	15	5.657	0.20	0.65	0.74
DA-S3	S3 TO OUT	0.80	0.65	15	5.657	0.80	0.65	2.94
DA-S4	S4 TO OUT	1.10	0.65	15	5.657	1.10	0.65	4.04
DA-S5	S5 TO OUT	1.20	0.65	15	5.657	1.20	0.65	4.41

DITCH CAPACITY

ID	NG ELEV FT	PROP FLT	DITCH DEPTH (D) FT	DITCH BOTTOM (D) FT	CROSS SEC AREA (A) SF	WET PERIMETER (P) FT	HYDRAULIC RADIUS (R)'	ROUGHNESS COEFFICIENT (N)	SLOPE (S) FT/FT	CAPACITY (Q) CFS	REQUIRED CAPACITY (Q) CFS
S1	21.3	19.9	1.4	0	7.84	11.2	0.7	0.025	0.002	16.5	7.72
S2	21.5	20.9	0.6	0	1.44	4.8	0.3	0.025	0.002	1.7	0.74
S3	21.5	20.7	0.8	0	2.56	6.4	0.4	0.025	0.002	3.7	2.94
S4	21.2	20.3	0.9	0	3.24	7.2	0.45	0.025	0.002	5.1	4.04
S5	21.2	20.3	0.9	0	3.24	7.2	0.45	0.025	0.002	5.1	4.41

AREA = 4'D^2

Q = 1.49/N * R^(2/3) * S^(1/2) * A

P = 8'D (APPROXIMATE)

100-YEAR DRAINAGE ANALYSIS FOR SWALES

D.A. NO.	RUN	AREA (AC)	C	Tc (MIN)	I 100-YR (in/hr)	CUMM AREA (AC)	WEIGHTED C	Q 5-YR (CFS)
DA-S6	S1 TO OUT	13.20	0.65	15	8.395	13.20	0.65	72.03
DA-S7	S2 TO OUT	13.20	0.65	15	8.395	13.20	0.65	72.03
DA-S8	S3 TO OUT	13.20	0.65	15	8.395	13.20	0.65	72.03

SWALES S6, S7, AND S8 WILL SERVE AN OVERFLOW WEIR FOR 100 YEAR STORM INTO DETENTION POND.

TRAPEZOIDAL WEIR FORMULA

$$Q = 3.247 L H^{3/2} \left(1 + \frac{0.556 H^{1.9}}{1 + 2 L H} \right) + 0.609 H^{2.5}$$

Where:

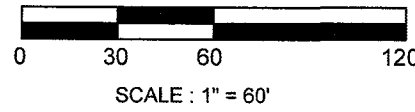
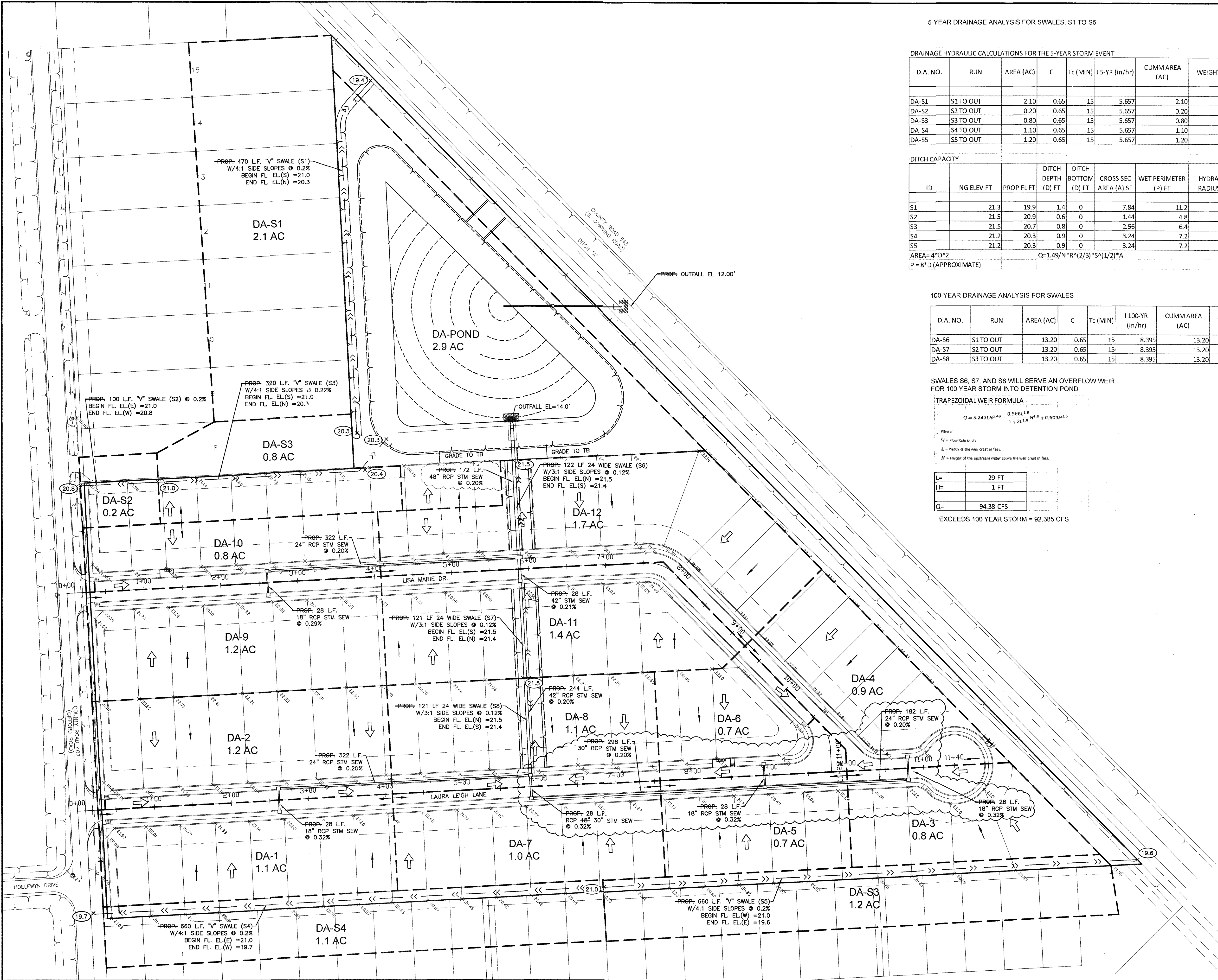
Q = flow rate in cfs

L = length of the weir crest in feet

H = height of the upstream water above the weir crest in feet

L =	29 FT
H =	1 FT
Q =	94.38 CFS

EXCEEDS 100 YEAR STORM = 92.385 CFS



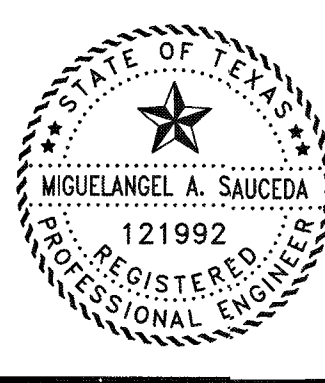
RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
2	04/13/21	CHANGE RUN I-3 TO I-8	
1	1/25/21	48" HDPE CHANGED TO RCP	

REVISIONS

DESIGNED	MS
DRAWN	
CHECKED	
DATE	

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ANGLETON, TEXAS 77515 (979) 849-6661
REG. NO. F-825



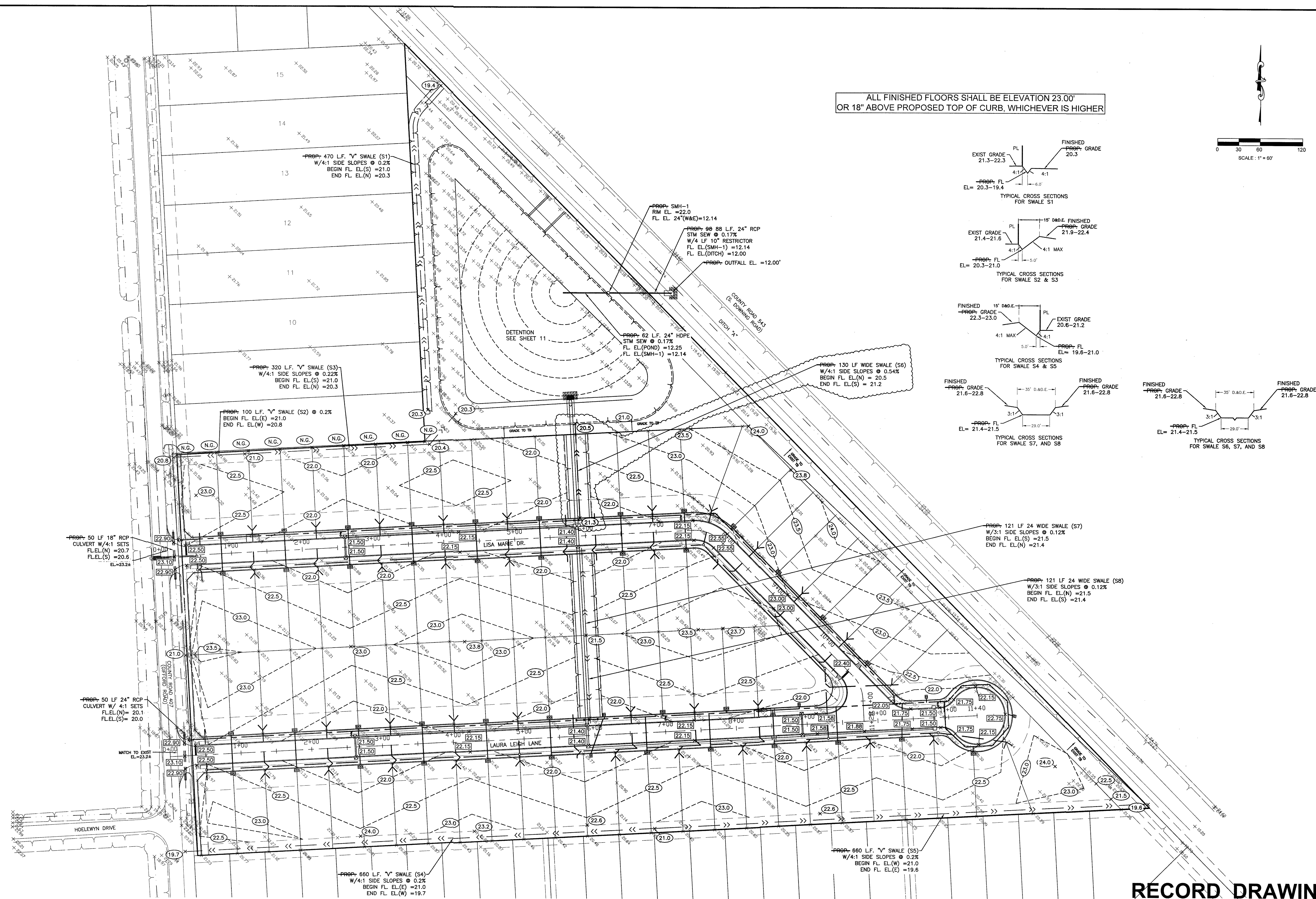
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OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

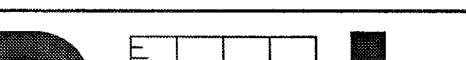


PLAN: 1" = 60'
PROFILE:
HORIZONTAL:
VERTICAL:

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

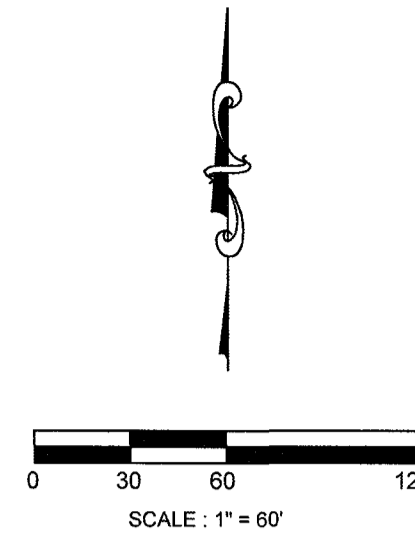
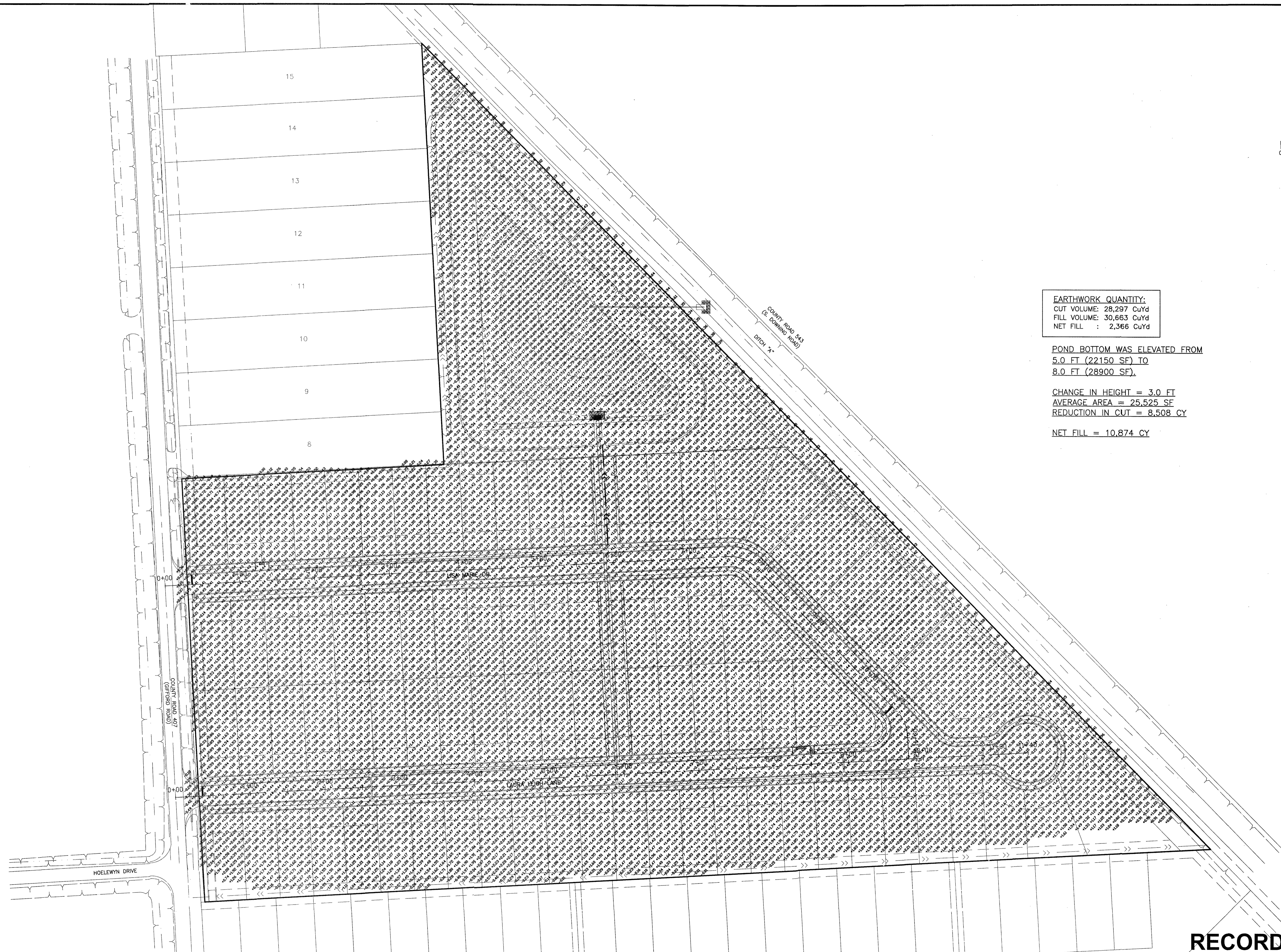
DRAINAGE ANALYSIS
PROJECT NO. 13743



RECORD DRAWING

					DESIGNED MS			The seal appearing on this document was authorized by Miguel Angel A. Saucedo P.E. 121992  Date: 11/22/21	OWNER: DAVID ROGERS ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057	PLAN: 1" = 60' PROFILE: HORIZONTAL: VERTICAL:	GIFFORD MEADOWS A 17.37 AC, 85-LOT SUBDIVISION ANGLETON, TEXAS 77515	GRADING PLAN
3	10/29/21	REROUTE SWALE S6										
2	4/21/21	CHANGE WET POND TO DRY POND										
1	4/13/21	CHANGE OUTFALL BLOCK										
NO.	DATE	DESCRIPTION	APPROVED									
REVISIONS				DATE								

743 SHEET SET - AS BUILT.dwg14



EARTHWORK QUANTITY:
CUT VOLUME: 28,297 CuYd
FILL VOLUME: 30,663 CuYd
NET FILL : 2,366 CuYd

POND BOTTOM WAS ELEVATED FROM
5.0 FT (22150 SF) TO
8.0 FT (28900 SF).

CHANGE IN HEIGHT = 3.0 FT
AVERAGE AREA = 25,525 SF
REDUCTION IN CUT = 8,508 CY

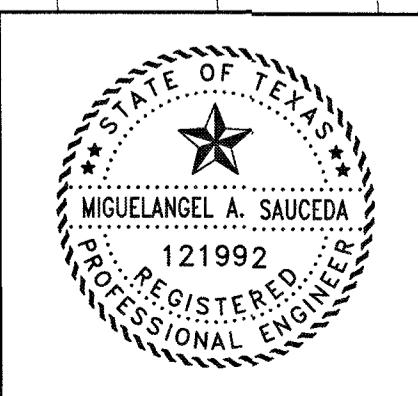
NET FILL = 10,874 CY

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NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

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DATE

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ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-625



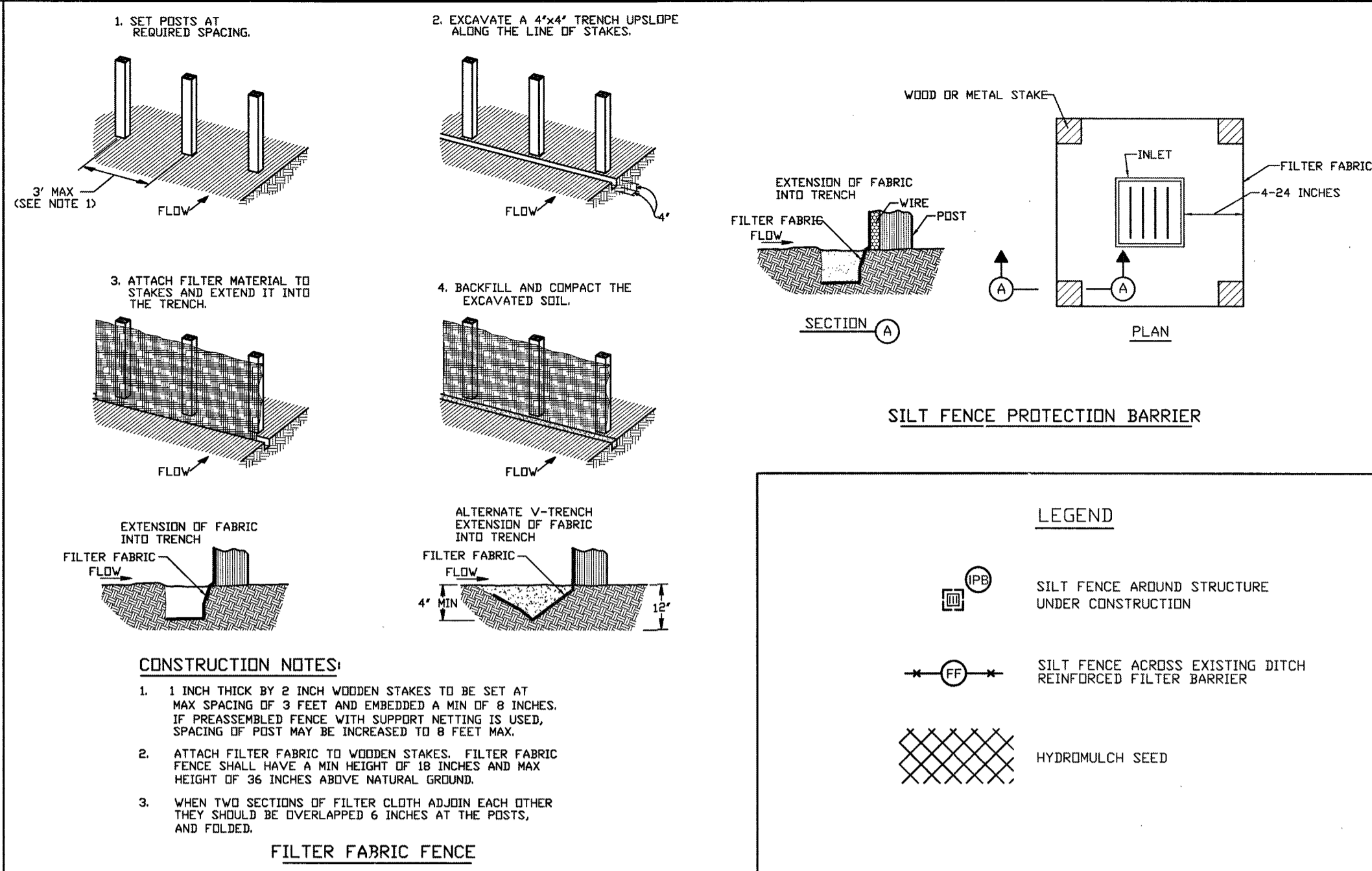
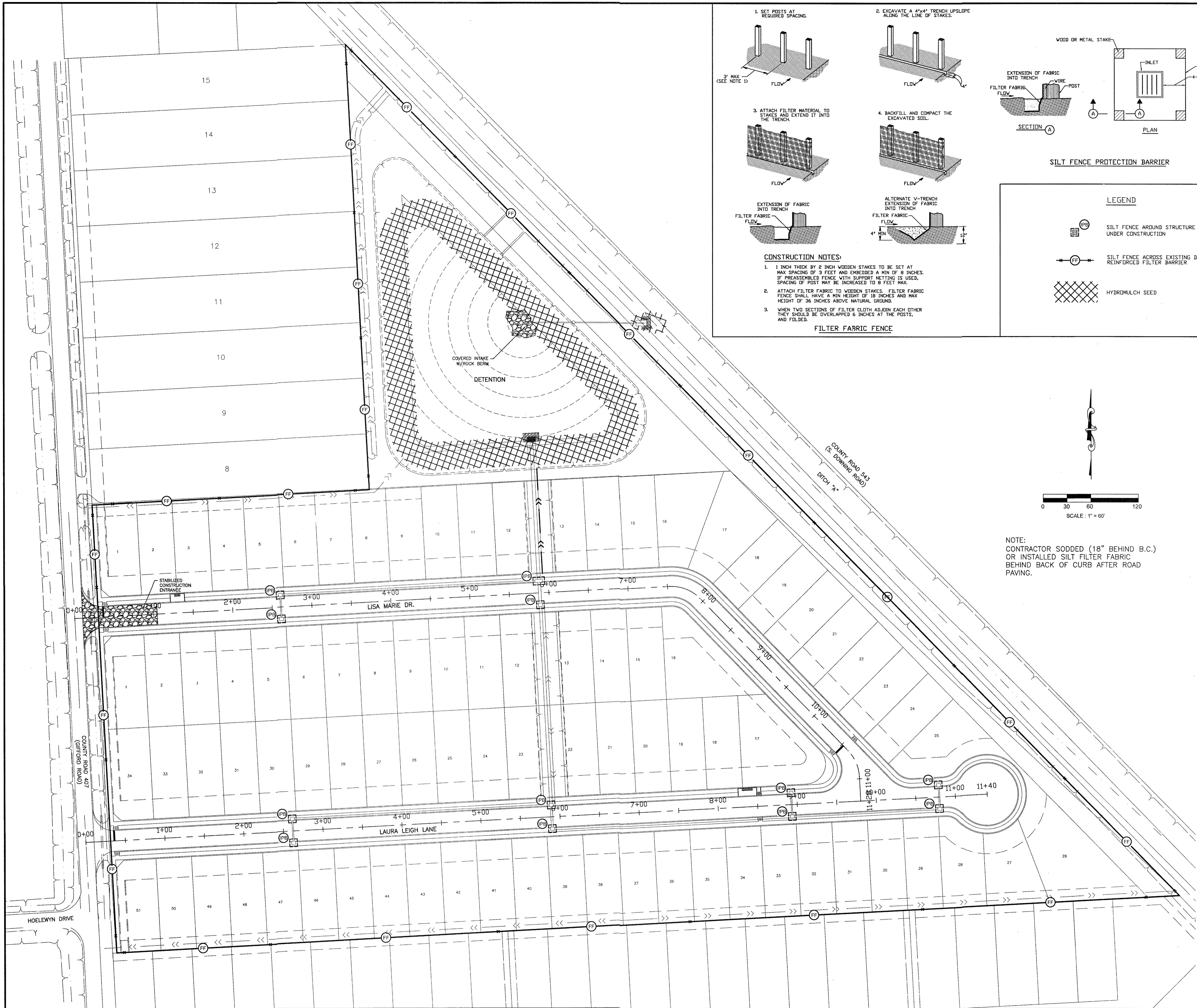
The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

PLAN: 1" = 60'
PROFILE:
HORIZONTAL:
VERTICAL:

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

CUT AND FILL PLAN
PROJECT NO. 13743



CONSTRUCTION NOTES:

- 1. 1 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 5 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
- 2. ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC FENCE SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.

FILTER FABRIC FENCE

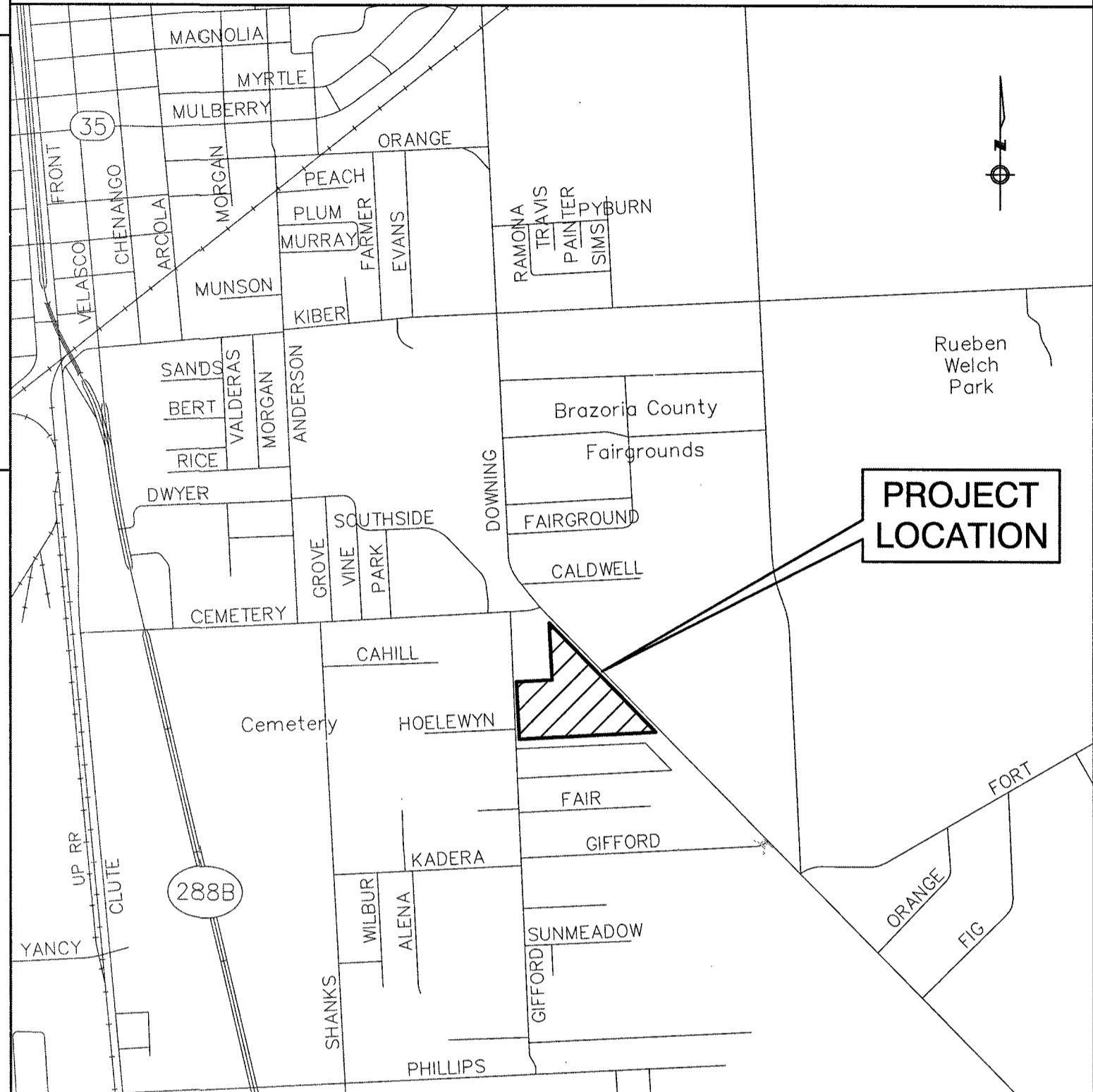
LEGEND

- SILT FENCE AROUND STRUCTURE UNDER CONSTRUCTION
- SILT FENCE ACROSS EXISTING DITCH REINFORCED FILTER BARRIER
- HYDROMULCH SEED

SCALE: 1" = 60'

NOTE: CONTRACTOR SODDED (18" BEHIND B.C.) OR INSTALLED SILT FILTER FABRIC BEHIND BACK OF CURB AFTER ROAD PAVING.

GENERAL LOCATION MAP



PROJECT/SITE INFORMATION

PROJECT NAME: GIFFORD MEADOWS SUBDIVISION
PROJECT ADDRESS/LOCATION: GIFFORD ROAD NEAR HOELEWYN DRIVE
CITY: ANGLETON STATE: TX. ZIP CODE: X
LATITUDE: 29°08'54" LONGITUDE: 95°24'58" COUNTY: BRAZORIA
NAME OF RECEIVING WATERS: GULF OF MEXICO

02/01/2021 MONTH/DAY/YEAR
ESTIMATED CONSTRUCTION START DATE
ESTIMATE OF AREA TO BE DISTURBED: 17.37 ACRES
ESTIMATE OF LIKELIHOOD OF DISCHARGE:
☐ UNLIKELY ☐ ONCE PER WEEK ☐ CONTINUAL
☒ ONCE PER MONTH ☐ ONCE PER DAY

ARE THERE ANY LISTED ENDANGERED OR THREATENED SPECIES, OR DESIGNATED CRITICAL HABITAT IN THE PROJECT AREA?
☐ YES ☒ NO

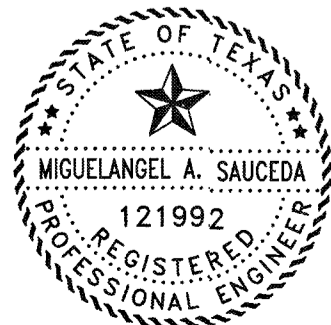
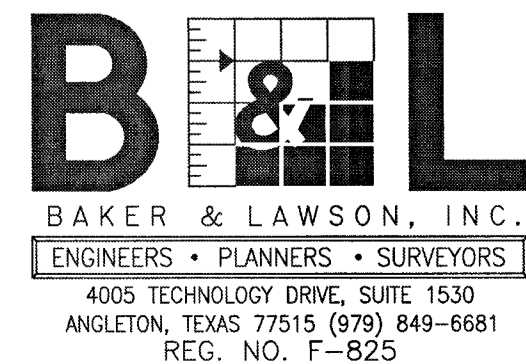
ELIGIBILITY WITH REGARD TO PROTECTION OF ENDANGERED SPECIES HAS BEEN SATISFIED THROUGH THE INDICATED SECTION OF PART 1.B.3.e.(2) OF THE PERMIT.

(a) ☒ (b) ☐ (c) ☐ (d) ☐

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED MS
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DATE



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Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

PLAN: 1" = 60'
PROFILE:
HORIZONTAL:
VERTICAL:

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

SWPPP LAYOUT

1. SITE DESCRIPTION

A. NATURE OF THE CONSTRUCTION ACTIVITY: GIFFORD MEADOWS SUBDIVISION ANGLETON, BRAZORIA COUNTY, TEXAS, BEING 17.37 ACRE DEVELOPED AREA WHICH WILL BE A RESIDENTIAL SUBDIVISION OF 85 LOTS (45' WIDE USUALLY). CONSTRUCTION WILL INCLUDE UNDERGROUND UTILITIES, STORM SEWERS, CONCRETE ROADWAYS WITH CURBS, AND DETENTION POND.

B. INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: STREET RIGHT OF WAY AND LOT AREAS WILL BE STRIPPED OF ALL VEGETATIVE MATTER. THIS MATERIAL WILL BE STOCKPILED ADJACENT TO THE WORK AND WILL BE SPREAD ON DEVELOPED LOTS AFTER FINAL GRADING. UTILITY AND STORM SEWER CONSTRUCTION WILL REQUIRE TRENCHING. EXCAVATION FOR ROADWAY SUBGRADE AND DETENTION POND WILL INVOLVE SPREADING EXCAVATED MATERIAL ON ADJACENT LOTS. RAINFALL RUNOFF WILL BE DIRECTED TO THE STREET CUTTERS AND TO THE CONSTRUCTED STORM SEWER SYSTEM. TRUCKS WILL BE USED TO DELIVER MATERIAL TO THE PROJECT INCLUDING LIME, CONCRETE, UTILITY AND STORM SEWER MATERIALS AND OTHER CONSTRUCTION MATERIALS. TRUCKS WILL ALSO BE USED TO HAUL CONSTRUCTION DEBRIS AWAY FROM THE SITE. THESE TRUCKS WILL BE ROUTED ALONG GIFFORD ROAD FOR INGRESS AND EGRESS. RUTTING DURING WET WEATHER WILL PROVIDE POTENTIAL FOR TRACKING MUD ALONG THE ROUTE.

C. TOTAL PROJECT AREA: 17.37 ACRES

D. TOTAL AREA TO BE DISTURBED: 17.37 ACRES

WEIGHTED RUNOFF COEFFICIENT (BEFORE CONSTRUCTION): 0.30 (AFTER CONSTRUCTION): 0.65

E. REFER TO GENERAL LOCATION MAP AND SITE MAP FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES, AREAS OF SOIL DISTURBANCE, AREAS WHICH WILL NOT BE DISTURBED, LOCTIONS OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS; LOCATIONS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR; LOCATION OF OFF-SITE MATERIAL, WASTE, BORROW OR EQUIPMENT STORAGE AREAS; SURFACE WATERS (INCLUDING WETLANDS); AND LOCATIONS WHERE STORM WATER DISCHARGES TO A SURFACE WATER.

F. LOCATION AND DESCRIPTION OF ANY DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION:

G. NAME OF RECEIVING WATERS: DRAINAGE WILL BE COLLECTED IN THE PROPOSED DETENTION POND WHICH WILL DRAIN THRU A RCP RESTRICTIVE OUTLET INTO DITCH A OF THE ANGLETON DRAINAGE DISTRICT. DITCH A OUTFALLS INTO THE BASTROP BAYOU WHICH WILL OUTFALL INTO THE GULF OF MEXICO.

AREAL EXTENT AND DESCRIPTION OF WETLAND OR SPECIAL AQUATIC SITE AT OR NEAR THE SITE WHICH WILL BE DISTURBED OR WHICH WILL RECEIVE DISCHARGES FROM DISTURBED AREAS OF THE PROJECT.

NONE

H. REFER TO FEDERAL REGISTER, VOLUME 63, NO. 128, MONDAY JULY 6, 1998, PAGES 36497 TO 36515 FOR REQUIREMENTS OF NPDES GENERAL PERMITS FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES IN REGION 6.

I. LISTED ENDANGERED OR THREATENED SPECIES OR CRITICAL HABITAT FOUND IN PROXIMITY TO THE CONSTRUCTION ACTIVITY: NONE

J. PROPERTY LISTED OR ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES: NONE

2. CONTROLS

NARRATIVE - SEQUENCE OF CONSTRUCTION ACTIVITIES AND APPROPRIATE CONTROL MEASURES DURING CONSTRUCTION

THE ORDER OF CONSTRUCTION WILL BEGIN WITH STRIPPING OF ALL VEGETATION FROM THE WORK AREA.

1. INSTALL SILT FENCE AROUND THE PERIMETER OF THE AREA TO BE DISTURBED. THE ORDER OF ACTIVITIES WILL BEGIN WITH THE COMPLETE STRIPPING OF ALL AREAS TO RECEIVE FILL MATERIAL. REMOVED VEGETATION TO BE STOCKPILED ADJACENT TO THE WORK TO BE SPREAD AFTER LOT GRADING IS COMPLETE.

2. INSTALL WATER LINES, SANITARY SEWER LINES AND MANHOLES AND STORM SEWER PIPES, INLETS AND MANHOLES. INSTALL INLET PROTECTION BARRIERS AROUND ALL INLETS. FULLY EXCAVATE THE DETENTION POND TO PROVIDE OUTFALL PATH FOR THE STORM SEWER SYSTEM. INSTALL THE RESTRICTIVE OUTLET WITH ROCK SEDIMENT BERM.

3. ROADWAY EXCAVATION, LIME STABILIZATION AND CONCRETE PAVING WILL FOLLOW UNDERGROUND UTILITY AND STORM SEWER CONSTRUCTION. DURING ROADWAY WORK, THE REMAINDER OF THE DETENTION POND WILL BE EXCAVATED AND MATERIAL SPREAD ON LOTS. INSTALL SILT FENCE IN THE BOTTOM OF THE POND UPSTREAM OF THE RESTRICTIVE OUTFALL CULVERT.

4. AS SOON AS CONCRETE CURBS ARE INSTALLED, PLACE 18" WIDE SOLID SOD OR REINFORCED FILTER FABRIC BEHIND ALL CURBS.

5. THE SWALES AND THE DETENTION POND SHALL BE SEEDED AND FERTILIZED UPON COMPLETION OF THE EXCAVATION. ALL SEEDED AND FERTILIZED AREA TO BE IRRIGATED TO ENSURE GROWTH.

A. EROSION AND SEDIMENT CONTROLS: EROSION AND SEDIMENT CONTROLS SHALL RETAIN SEDIMENT ON SITE TO THE EXTENT PRACTICABLE. CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS (WHERE APPLICABLE) AND GOOD ENGINEERING PRACTICES. OFFSITE SEDIMENT ACCUMULATIONS MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS WHEN CAPACITY HAS BEEN REDUCED BY 50%. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WALL SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.

SOIL STABILIZATION PRACTICES:	OWNER/ DEVELOPER	GENERAL CNTRTR.	BUILDER	OTHER
TEMPORARY SEEDING				
PERMANENT PLANTING, SODDING, OR SEEDING		X		
MULCHING- WHERE INDICATED		X		
SOIL RETENTION BLANKET				
VEGETATIVE BUFFER STRIPS				
PRESERVATION OF NATURAL RESOURCES				
OTHER:				

THE FOLLOWING RECORDS SHALL BE MAINTAINED AND ATTACHED TO THIS SWPPP:
DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED.

STRUCTURAL PRACTICES:	OWNER/ DEVELOPER	GENERAL CNTRTR.	BUILDER	OTHER
SILT FENCES (REINFORCED)		X		
HAY BALES				
ROCK BERMS		X		
DIVERSION, INTERCEPTOR, OR PERIMETER DIKES				
DIVERSION, INTERCEPTOR, OR PERIMETER SWALES		X		
DIVERSION DIKE AND SWALE COMBINATIONS				
PIPE SLOPE DRAINS				
ROCK BEDDING AT CONSTRUCTION EXIT		X		
TIMBER MATTING AT CONSTRUCTION EXIT				
SEDIMENT TRAPS				
SEDIMENT BASINS				
STORM INLET PROTECTION		X		
STONE OUTLET STRUCTURES				
OTHER:				

B. STORM WATER MANAGEMENT MEASURES INSTALLED DURING CONSTRUCTION TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION:

CURBS & GUTTERS STORM SEWERS

C. OTHER CONTROLS

NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE UNITED STATES, EXCEPT AS AUTHORIZED BY A PERMIT ISSUED UNDER SECTION 404 OF THE CLEAN WATER ACT.

WASTE MATERIALS: ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL CONTAINER. THE CONTAINER SHALL MEET ALL STATE AND CITY SOLID WASTE MANAGEMENT REGULATIONS. THE CONTAINER SHALL BE EMPTIED AS NECESSARY AND THE TRASH HAULED TO AN APPROPRIATE DUMP SITE. NO CONSTRUCTION MATERIALS WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING): AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINT, CLEANING SOLVENTS, ASPHALT PRODUCTS, PETROLEUM PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, AND CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR SHOULD BE CONTACTED IMMEDIATELY.

SANITARY WASTE: PORTABLE SANITARY FACILITIES WILL BE PROVIDED BY THE CONTRACTOR. ALL SANITARY WASTES WILL BE COLLECTED FROM PORTABLE UNITS AND SERVICED BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

OFFSITE VEHICLE TRACKING SHALL BE MINIMIZED BY:
HAUL ROADS DAMPENED FOR DUST CONTROL LOADED
X HAUL TRUCKS TO BE COVERED WITH TARPULIN
X EXCESS DIRT ON ROAD REMOVED DAILY STABILIZED
CONSTRUCTION ENTRANCE

OTHER: TRUCKS HAULING VEGETATION AND DEBRIS WILL BE MONITORED AND SHALL BE COVERED WITH TARPULINS IF REQUIRED TO PREVENT DUST OR OTHER PARTICLES FROM BLOWING OR FALLING FROM TRUCK.

REMARKS: ALL OPERATIONS WILL BE CONDUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNTS OF SEDIMENT THAT MAY ENTER THE RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY, OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS.

3. MAINTENANCE

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF A REPAIR IS NECESSARY IT SHALL BE DONE AT THE EARLIEST TIME POSSIBLE, BUT NO LATER THAN SEVEN CALENDAR DAYS AFTER THE GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO DRAINAGE WAYS SHALL HAVE PRIORITY, FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS. MAINTENANCE SHALL BE PERFORMED BEFORE THE NEXT ANTICIPATED STORM EVENT OR AS SOON AS PRACTICABLE.

4. INSPECTION

AN INSPECTION WILL BE PERFORMED BY THE PERMITEE EVERY FOURTEEN DAYS AS WELL AS AFTER EVERY ONE-HALF INCH OR GREATER RAINFALL EVENT. AN INSPECTION AND RAINFALL REPORT WILL BE MADE AFTER EACH INSPECTION. ANY DEFICIENCIES WILL BE NOTED AND APPROPRIATE CHANGES SHALL BE MADE TO THE SYSTEM TO COMPLY WITH REQUIREMENTS.

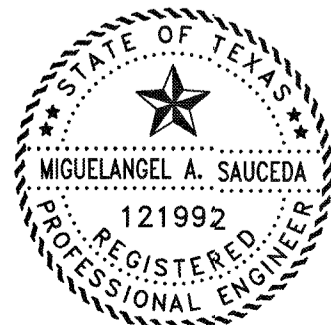
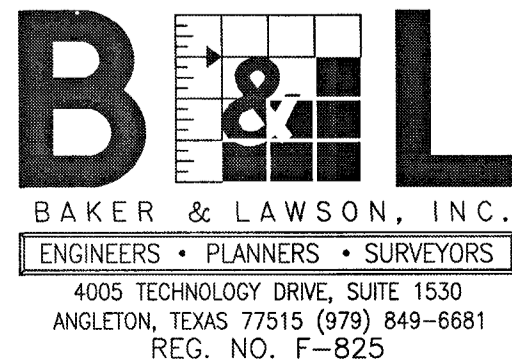
5. NON-STORMWATER DISCHARGES

FIRE HYDRANT FLUSHING
X BUILDING WASHDOWN WITHOUT DETERGENTS
X PAVEMENT WASHDOWN WITHOUT DETERGENTS
X CONDENSATE
UNCONTAMINATED GROUNDWATER
UNCONTAMINATED FOUNDATION DRAINS

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED MS
DRAWN
CHECKED
DATE



The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN:
PROFILE:
HORIZONTAL:
VERTICAL:

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

SWPPP NARRATIVE

PROJECT NAME : 13743 GIFFORD
JOB NUMBER : 13743
PROJECT DESCRIPTION :
DESIGN FREQUENCY : 5 Years
ANALYSIS FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN FREQUENCY of: 5 Years

Runoff Computation for Design Frequency.

ID (acre)	C Value (min)	Area (in/hr)	Tc (in/hr)	Tc Used (cfs)	Intensity (cfs)	Supply Q (cfs)	Total Q (cfs)
A-1	0.65	1.10	15.00	15.00	6.64	0.000	4.751
A-2	0.65	1.20	15.00	15.00	6.64	0.000	5.182
A-3	0.65	0.80	15.00	15.00	6.64	0.000	3.455
A-4	0.65	0.90	15.00	15.00	6.64	0.000	3.887
A-5	0.65	0.70	15.00	15.00	6.64	0.000	3.023
A-6	0.65	0.70	15.00	15.00	6.64	0.000	3.023
A-7	0.65	1.00	15.00	15.00	6.64	0.000	4.319
A-8	0.65	1.10	15.00	15.00	6.64	0.000	4.751
A-9	0.65	1.20	15.00	15.00	6.64	0.000	5.182
A-10	0.65	0.80	15.00	15.00	6.64	0.000	3.455
A-11	0.65	1.40	15.00	15.00	6.64	0.000	6.046
A-12	0.65	1.70	15.00	15.00	6.64	0.000	7.342

Sag Inlets Configuration Data.

Inlet ID (ft)	Inlet Type (sf)	Length (ft)	Grate Area (sf)	Left-Slope Long Trans (%)	Right-Slope Long Trans (%)	Gutter n	Depth Allowed (ft)	Critic Elev.
A-1	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-2	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-3	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-4	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-5	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-6	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-7	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-8	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-9	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-10	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-11	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-12	Curb	10.00	n/a	0.50	2.00	0.014	1.50	22.50

Sag Inlets Computation Data.

Inlet ID (ft)	Inlet Type (sf)	Length (ft)	Grate Area (cfs)	Total Q (ft)	Inlet Capacity (ft)	Total Head (ft)	Ponded Width Left Right
A-1	Curb	5.00	n/a	n/a	4.751	6.261	0.416 10.80 10.80
A-2	Curb	5.00	n/a	n/a	5.182	6.261	0.441 11.15 11.15
A-3	Curb	5.00	n/a	n/a	3.455	6.261	0.336 9.60 9.60
A-4	Curb	5.00	n/a	n/a	3.887	6.261	0.364 10.00 10.00
A-5	Curb	5.00	n/a	n/a	3.023	6.261	0.308 9.10 9.10
A-6	Curb	5.00	n/a	n/a	3.023	6.261	0.308 9.10 9.10
A-7	Curb	5.00	n/a	n/a	4.319	6.261	0.390 10.40 10.40
A-8	Curb	5.00	n/a	n/a	4.751	6.261	0.416 10.80 10.80
A-9	Curb	5.00	n/a	n/a	5.182	6.261	0.441 11.15 11.15
A-10	Curb	5.00	n/a	n/a	3.455	6.261	0.336 9.60 9.60
A-11	Curb	5.00	n/a	n/a	6.046	6.261	0.488 11.80 11.80
A-12	Curb	10.00	n/a	n/a	7.342	10.327	0.398 12.70 12.70

Cumulative Junction Discharge Computations

Node I.D.	Node Type	weighted C-Value (min)	Cumulat. Dr.Area (in/hr)	Cumulat. Tc (cfs)	Intens. (cfs)	User Supply Q (cfs)	Additional Q in Node	Total Disch.
A-1	Curb	0.650	1.10	15.00	6.64	0.000	0.00	4.751
A-2	Curb	0.650	2.30	15.12	6.62	0.000	0.00	9.893
A-3	Curb	0.650	1.70	15.13	6.62	0.000	0.00	7.310
A-4	Curb	0.650	0.90	15.00	6.64	0.000	0.00	3.887
A-5	Curb	0.650	3.10	15.99	6.44	0.000	0.00	12.972
A-6	Curb	0.650	0.70	15.00	6.64	0.000	0.00	3.023
A-7	Curb	0.650	4.10	17.22	6.20	0.000	0.00	16.521
A-8	Curb	0.650	7.50	17.33	6.18	0.000	0.00	30.125
A-9	Curb	0.650	1.20	15.00	6.64	0.000	0.00	5.182
A-10	Curb	0.650	2.00	15.13	6.62	0.000	0.00	8.601
A-11	Curb	0.650	8.90	18.13	6.04	0.000	0.00	34.920
A-12	Curb	0.650	12.60	18.22	6.02	0.000	0.00	49.311
OUT	outlet	0.650	12.60	18.22	6.02	0.000	0.00	49.311

Conveyance Configuration Data

Run# (ft)	Node I.D. US (ft)	Node I.D. DS (ft)	Flowline Elev. US (ft)	Flowline Elev. DS (ft)	Shape #	Span (%)	Rise	Length	Slope	n_value
1	A-1	A-2	15.62	15.53	Circ 1	0.00	1.50	28.00	0.32	0.013
2	A-2	A-8	15.53	14.89	Circ 1	0.00	2.00	322.00	0.20	0.013
3	A-3	A-5	15.90	15.54	Circ 1	0.00	2.00	182.00	0.20	0.013
4	A-4	A-3	15.99	15.90	Circ 1	0.00	1.50	28.00	0.32	0.013
5	A-5	A-7	15.54	14.95	Circ 1	0.00	2.50	298.00	0.20	0.013
6	A-6	A-5	15.63	15.54	Circ 1	0.00	1.50	28.00	0.32	0.013
7	A-7	A-8	14.95	14.89	Circ 1	0.00	2.50	28.00	0.21	0.013
8	A-8	A-11	14.89	14.40	Circ 1	0.00	3.50	244.00	0.20	0.013
9	A-9	A-10	15.06	14.98	Circ 1	0.00	1.50	28.00	0.29	0.013
10	A-10	A-12	14.98	14.34	Circ 1	0.00	2.00	322.00	0.20	0.013
11	A-11	A-12	14.40	14.34	Circ 1	0.00	3.50	28.00	0.21	0.013
12	A-12	OUT	14.34	14.00	Circ 1	0.00	4.00	172.00	0.20	0.013

Conveyance Hydraulic Computations. Tailwater = 12.250 (ft)

Run# (ft)	Hydraulic US Elev (ft)	Gradeline DS Elev (ft)	Depth Unif. (ft)	Actual Unif. (ft)	Velocity (f/s)	Actual Velocity (f/s)	Q (cfs)	Cap (cfs)	Junc Loss
1	17.92	17.86	0.204	1.01	1.50	3.76	2.69	4.75	5.96
2	17.86	17.25	0.191	1.63	2.00	3.62	3.15	9.89	10.09
3	17.69	17.53	0.104	1.25	1.99	3.54	2.33	7.31	10.06
4	17.72	17.69	0.137	0.89	1.50	3.56	2.20	3.89	5.96
5	17.53	17.29	0.100	1.56	2.34	4.02	2.72	12.97	18.25
6	17.55	17.53	0.083	0.75	1.50	3.42	1.71	3.02	5.96
7	17.29	17.25	0.162	1.80	2.36	4.37	3.44	16.52	18.99
8	17.25	17.00	0.090	2.08	2.60	5.06	3.93	30.13	45.09
9	17.50	17.43	0.243	1.13	1.50	3.65	2.93	5.18	5.62
10	17.43	16.97	0.145	1.44	2.00	3.56	2.74	8.60	10.09
11	17.00	16.97	0.120	2.30	2.63	5.22	4.51	34.92	46.58
12	16.97	16.63	0.118	2.63	2.63	5.64	5.64	49.31	63.87

OUTPUT FOR ANALYSIS FREQUENCY of: 100 Years

Runoff Computation for Analysis Frequency.

ID (acre)	C value (min)	Area (min)	Tc (in/hr)	Tc Used (in/hr)	Intensity (cfs)	Supply Q (cfs)	Total Q (cfs)
A-1	0.65	1.10	15.00	15.00	10.10	0.000	7.221
A-2	0.65	1.20	15.00	15.00	10.10	0.000	7.877
A-3	0.65	0.80	15.00	15.00	10.10	0.000	5.251
A-4	0.65	0.90	15.00	15.00	10.10	0.000	5.908
A-5	0.65	0.70	15.00	15.00	10.10	0.000	4.595
A-6	0.65	0.70	15.00	15.00	10.10	0.000	4.595
A-7	0.65	1.00	15.00	15.00	10.10	0.000	6.564
A-8	0.65	1.10	15.00	15.00	10.10	0.000	7.221
A-9	0.65	1.20	15.00	15.00	10.10	0.000	7.877
A-10	0.65	0.80	15.00	15.00	10.10	0.000	5.251
A-11	0.65	1.40	15.00	15.00	10.10	0.000	9.190
A-12	0.65	1.70	15.00	15.00	10.10	0.000	11.159

Sag Inlets Configuration Data.

Inlet ID (ft)	Inlet Type (sf)	Length (ft)	Grate Area (sf)	Left-Slope Long Trans (%)	Right-Slope Long Trans (%)	Gutter n	Depth Allowed (ft)	Critic Elev.
A-1	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-2	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-3	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-4	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-5	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-6	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-7	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-8	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-9	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-10	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-11	Curb	5.00	n/a	0.50	2.00	0.014	1.50	22.50
A-12	Curb	10.00	n/a	0.50	2.00	0.014	1.50	22.50

Sag Inlets computation Data.

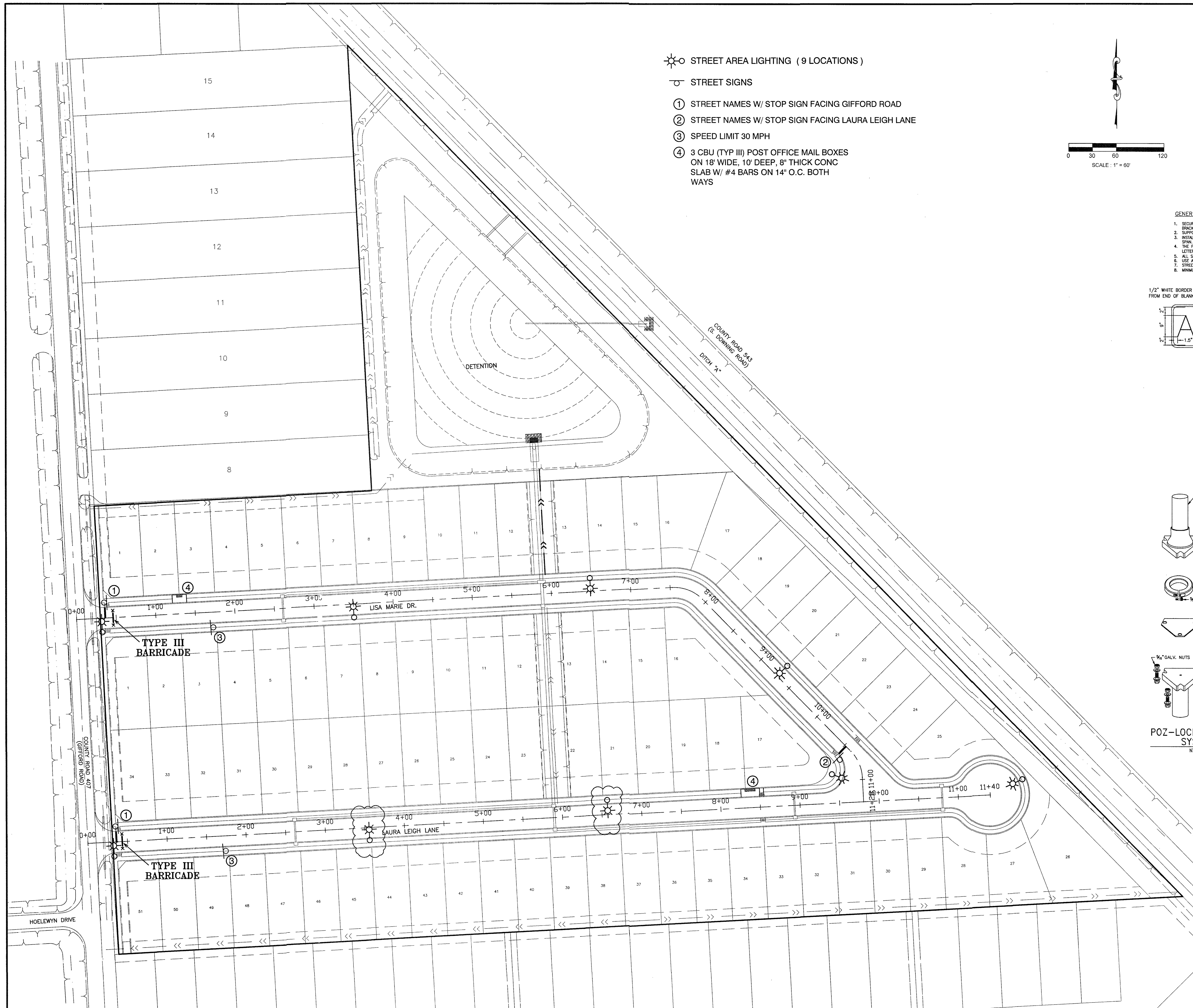
Inlet ID (ft)	Inlet Type (sf)	Length (ft)	Grate Area (cfs)	Total Q (ft)	Inlet Capacity (ft)	Total Head (ft)	Ponded Width Left Right
A-1	Curb	5.00	n/a	n/a	7.221	6.718	0.539 12.65 12.65
A-2	Curb	5.00	n/a	n/a	7.877	6.718	0.594 13.05 13.05
A-3	Curb	5.00	n/a	n/a	5.251	6.261	0.445 11.20 11.20
A-4	Curb	5.00	n/a	n/a	5.908	6.261	0.481 11.70 11.70
A-5	Curb	5.00	n/a	n/a	4.595	6.261	0.407 10.65 10.65
A-6	Curb	5.00	n/a	n/a	4.595	6.261	0.407 10.65 10.65
A-7	Curb	5.00	n/a	n/a	6.564	6.718	0.489 12.20 12.20
A-8	Curb	5.00	n/a	n/a	7.221	6.718	0.539 12.65 12.65
A-9	Curb	5.00	n/a	n/a	7.877	6.718	0.594 13.05 13.05
A-10	Curb	5.00	n/a	n/a	5.251	6.261	0.445 11.20 11.20
A-11	Curb	5.00	n/a	n/a	9.190	6.718	0.718 13.85 13.85
A-12	Curb	10.00	n/a	n/a	11.159	13.436	0.422 14.90 14.90

Cumulative Junction Discharge Computations

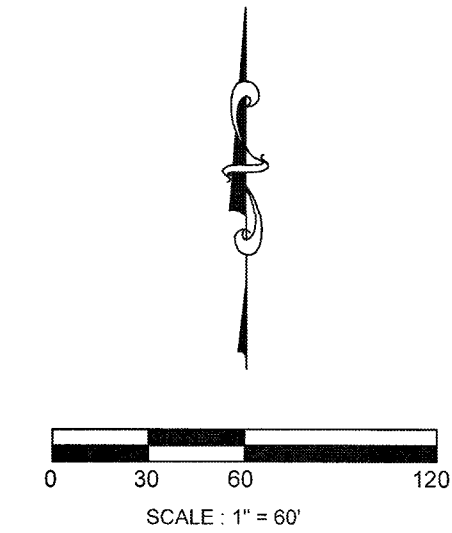
Node I.D.	Node Type	weighted C-Value (min)	Cumulat. Dr.Area (in/hr)	Cumulat. Tc (cfs)	Intens. (cfs)	User Supply Q (cfs)	Additional Q in Node	Total Disch.
A-1	Curb	0.650	1.10	15.00	10.10	0.000	0.00	7.221
A-2	Curb	0.650	2.30	15.11	10.06	0.000	0.00	15.045
A-3	Curb	0.650	1.70	15.12	10.06	0.000	0.00	11.118
A-4	Curb	0.650	0.90	15.00	10.10	0.000	0.00	5.908
A-5	Curb	0.650	3.10	15.98	9.81	0.000	0.00	19.762
A-6	Curb	0.650	0.70	15.00	10.10	0.000	0.00	4.595
A-7	Curb	0.650	4.10	17.18	9.48	0.000	0.00	25.256
A-8	Curb	0.650	7.50	17.27	9.45	0.000	0.00	46.083
A-9	Curb	0.650	1.20	15.00	10.10	0.000	0.00	7.877
A-10	Curb	0.650	2.00	15.10	10.07	0.000	0.00	13.087
A-11	Curb	0.650	8.90	18.04	9.26	0.000	0.00	53.554
A-12	Curb	0.650	12.60	18.12	9.24	0.000	0.00	75.648
OUT	outlet	0.650	12.60	18.12	9.24	0.000	0.00	75.648

Conveyance Configuration Data

Run#	Node	I.D.	Flowline	Elev.							
(ft)	US	DS	US	DS	shape	#	Span	Rise	Length	Slope	n_value
			(ft)	(ft)	(ft)	(%)					
1	A-1	A-2	15.62	15.53	Circ 1	0.00	1.50	28.00	0.32	0.013	
2	A-2	A-8	15.53	14.89	Circ 1	0.00	2.00	322.00	0.20	0.013	
3	A-3	A-5	15.90	15.54	Circ 1	0.00	2.00	182.00	0.20	0.013	
4	A-4	A-3	15.99	15.90	Circ 1	0.00	1.50	28.00	0.32	0.013	
5	A-5	A-7	15.54	14.95	Circ 1	0.00	2.50	298.00	0.20	0.013	
6	A-6	A-5	15.63	15.54	Circ 1	0.00	1.50	28.00	0.32	0.013	
7	A-7	A-8	14.95	14.89	Circ 1	0.00	2.50	28.00	0.21	0.013	
8	A-8	A-11	14.89	14.40	Circ 1	0.00	3.50	244.00	0.20	0.013	
9	A-9	A-10	15.06	14.98	Circ 1	0.00	1.50	28.00	0.29	0.013	
10	A-10	A-12	14.98	14.34	Circ 1	0.00	2.00	322.00	0.20	0.013	
11	A-11	A-12	14.40	14.34	Circ 1	0.00	3.50	28.00	0.21	0.013	
12	A-12	OUT	14.34	14.00	Circ 1	0.00	4.00	172.00	0.20	0.013	



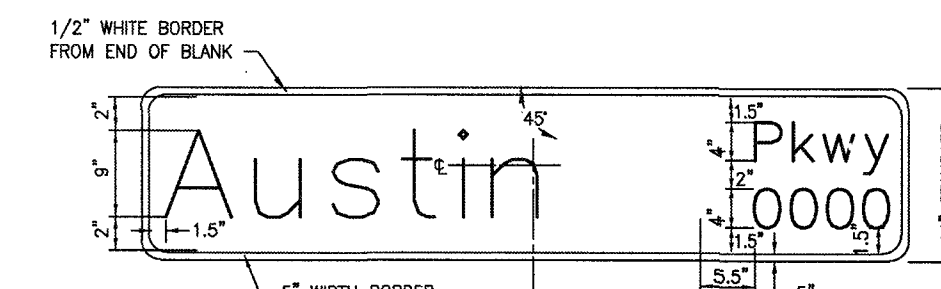
- ☼ STREET AREA LIGHTING (9 LOCATIONS)
- STREET SIGNS
- ① STREET NAMES W/ STOP SIGN FACING GIFFORD ROAD
 - ② STREET NAMES W/ STOP SIGN FACING LAURA LEIGH LANE
 - ③ SPEED LIMIT 30 MPH
 - ④ 3 CBU (TYP III) POST OFFICE MAIL BOXES ON 18" WIDE, 10' DEEP, 8" THICK CONC SLAB W/ #4 BARS ON 14" O.C. BOTH WAYS



GENERAL CONSTRUCTION NOTES:

1. SECURELY ATTACH STREET NAME SIGN TO TRAFFIC SIGNAL SUPPORT WIRES WITH MULTI-LEVELING, WIND DUMPING BRACKETS.
2. SUPPORT WIRES SHOULD NOT BE PROHIBITED FROM INDEPENDENT MOVEMENT.
3. INSTALL ONE STREET NAME SIGN APPROXIMATE 2' FROM POLE ABOVE ON-COMING TRAFFIC ON EACH TRAFFIC SIGNAL SPAN.
4. THE FIRST LETTER OF EACH WORD SHALL BE UPPER CASE, SUBSEQUENT LETTERS SHALL BE LOWER CASE, ALL INDIVIDUAL LETTERS FOR EXAMPLE "T.M." SHALL BE UPPER CASE. STREET SUFFIXES & "NO OUTLET" SHALL BE UPPER CASE.
5. ALL SHEETING SHALL BE "TOWARD DRAIN" OR APPROVED EQUAL.
6. USE ANNOUEZ BLANKS ONLY.
7. STREET SIGN FONTS SHALL BE HELVETICA BOLD, MEDIUM STYLE.
8. MINIMUM SIGN THICKNESS: 9" SIGNS = .080", 14" SIGNS = .1875"

SL-ST-68



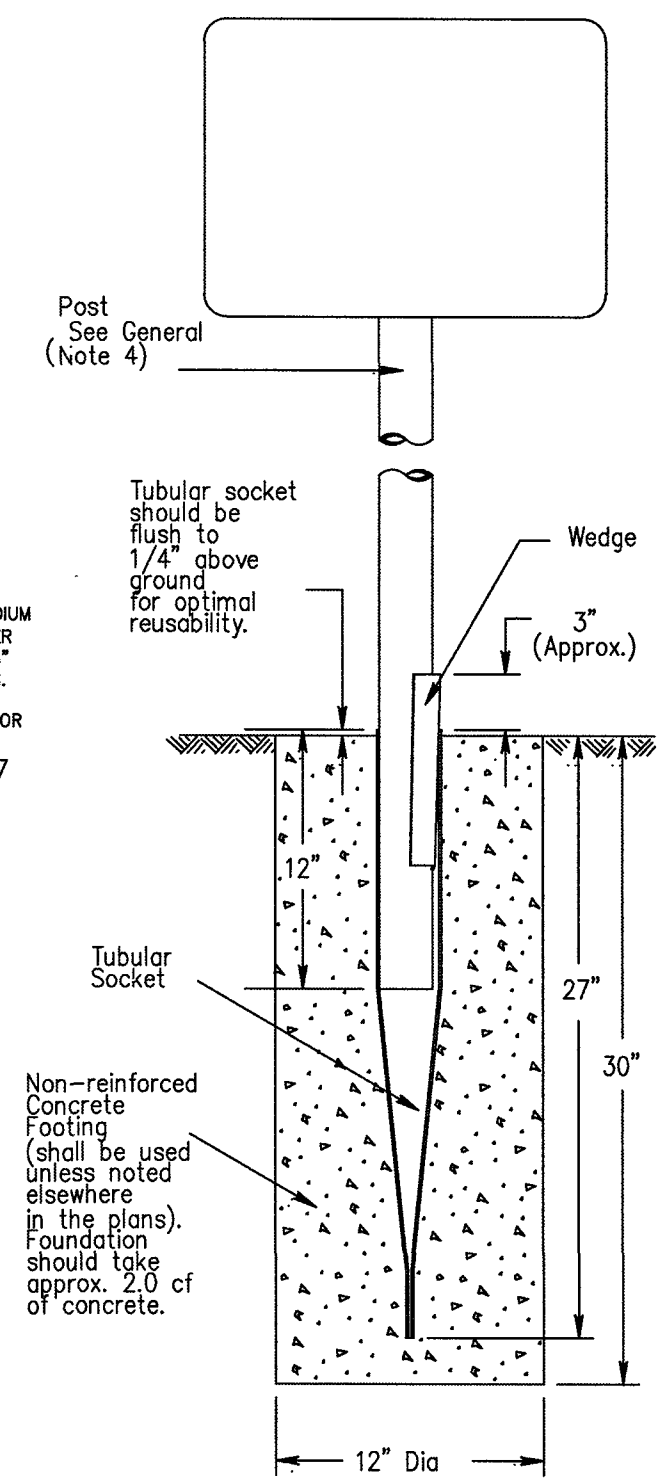
DETAIL OF SIGN
FOR MAST ARM TRAFFIC
SIGNAL POLES

NOTES:

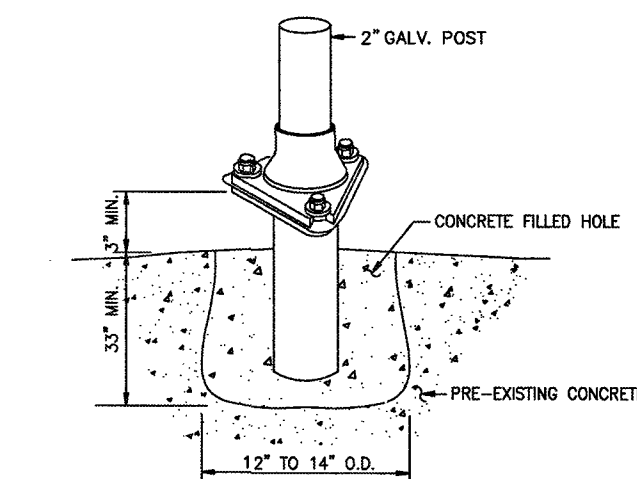
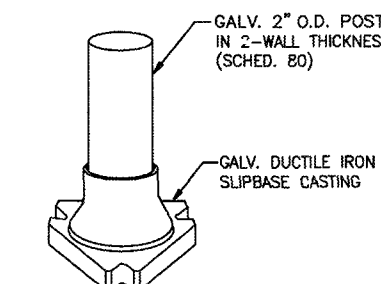
1. HELVETICA BOLD, MEDIUM STYLE, WITH 9" UPPER CASE LETTERS AND 8" LOWER CASE LETTERS.
2. REFER TO C.O.S.L. DESIGN STANDARDS FOR MORE INFO.

SL-ST-67

Wedge Anchor System



SL-ST-68



CONCRETE SIGN PEDESTAL SL-ST-65

NTS

- NOTES:
1. FILL HOLE TO GROUND LEVEL.
 2. PRESS BASE INTO CENTER OF CONCRETE.
 3. LEVEL BASE 3" ABOVE GROUND.
 4. TIGHTEN (TORQUE) NUTS BETWEEN 80 TO 80 FT/LB MAX.

SL-ST-64

POZ-LOCK SLIPBASE SYSTEM

NTS

SL-ST-62

LIGHTING PLAN PROVIDED IS SHOWN AS RECOMMENDED. FINAL LOCATIONS AND QUANTITIES ARE DETERMINED BY TEXAS NEW MEXICO POWER (TNMP).

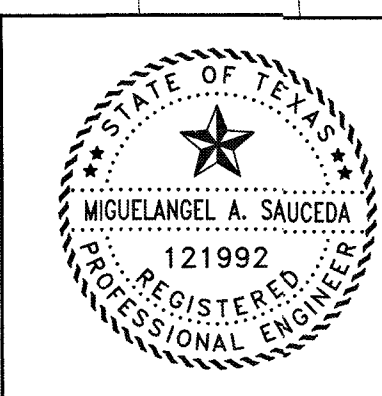
RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
2	09/27/21	ADD MAILBOX CALLOUTS	
1	04/14/21	RELOCATE LIGHTS ON LAURA LEIGH LANE	

REVISIONS

DESIGNED	MS
DRAWN	
CHECKED	
DATE	

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 649-6681
REG. NO. F-825



The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992

Date: 11/22/25

OWNER:

DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

PLAN: 1" = 60'

PROFILE:

HORIZONTAL:

VERTICAL:

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

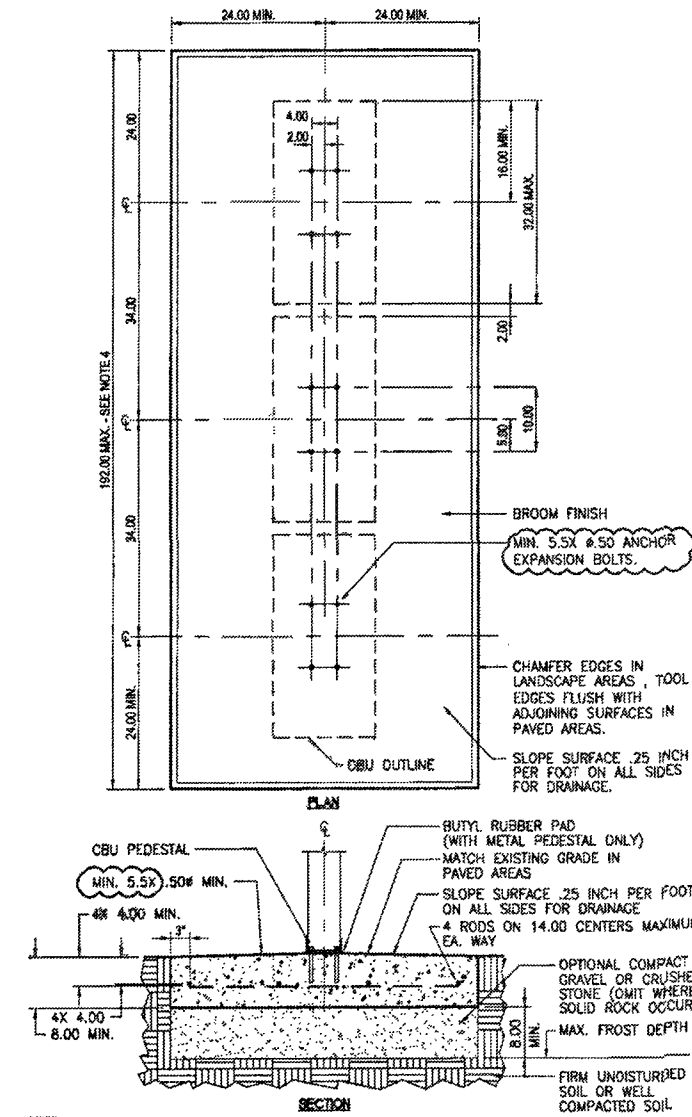
PAVEMENT MARKING, STREET SIGN AND ROADWAY LIGHTING LAYOUT

PROJECT NO. 13743

13743 SHEET SET - AS BUILT.dwg

20

NOTES TO A/E:



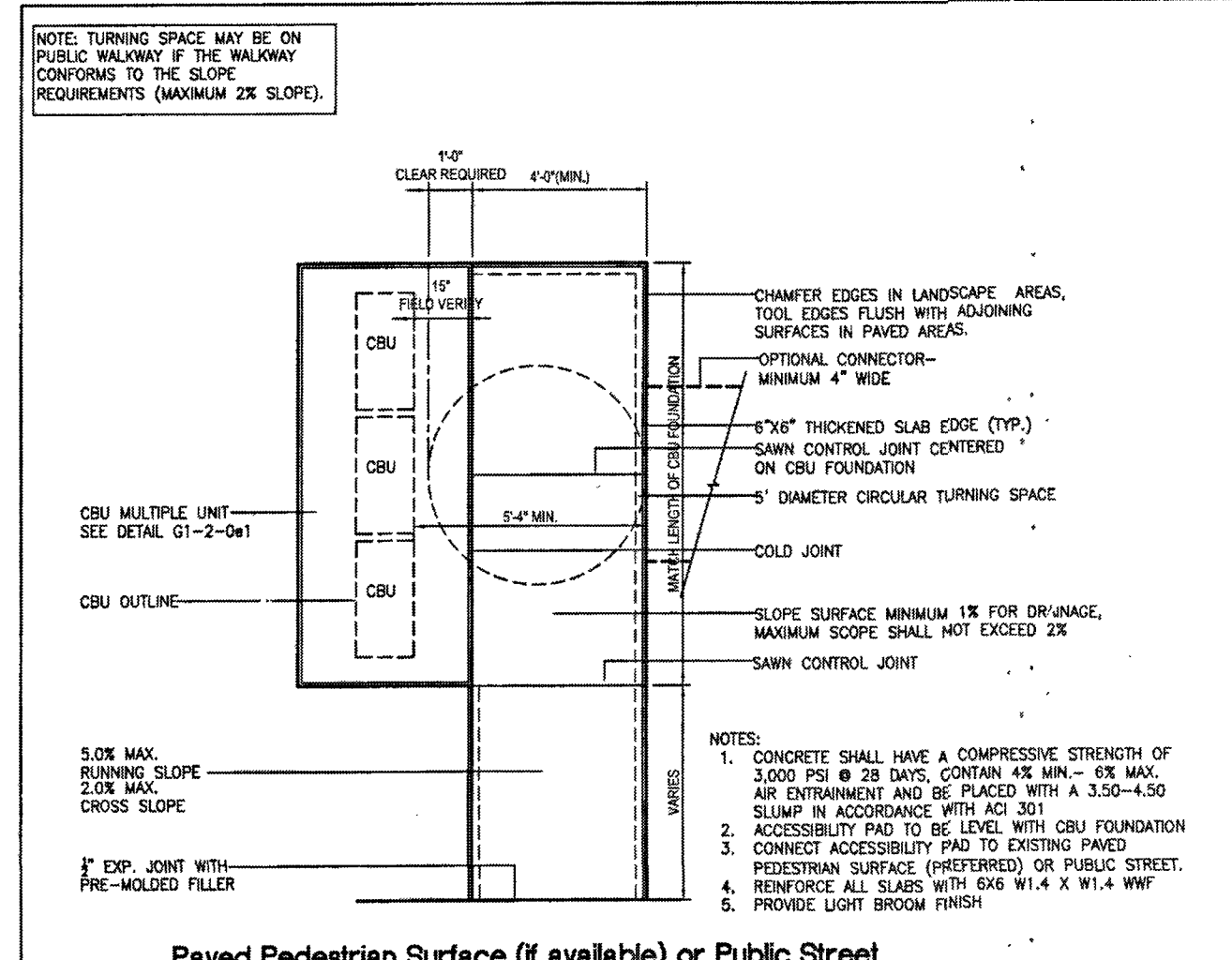
- NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS, CONTAIN 4% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3.00 - 4.50 SLUMP IN ACCORDANCE WITH ACI 301.
 2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
 3. REINFORCING STEEL SHALL BE EQUIVALENT TO THE FOLLOWING POWERS:

CLUSTER BOX UNIT (CBU) INSTALLATION - MULTIPLE UNIT
G1-2-0 e1
USPS SOL 10/11/2016
Last Revised: 10/27/2016

UNITED STATES POSTAL SERVICE
STANDARD DETAIL LIBRARY

NOTES TO A/E:

1. IF THE ACCESSIBLE ROUTE FROM THE CBU(S) CONNECTS WITH A STREET OR OTHER PAVED SURFACE AT A VERTICAL CURB, A CURB RAMP SHOULD BE INSTALLED IN ACCORDANCE WITH RE-4 REQUIREMENTS.

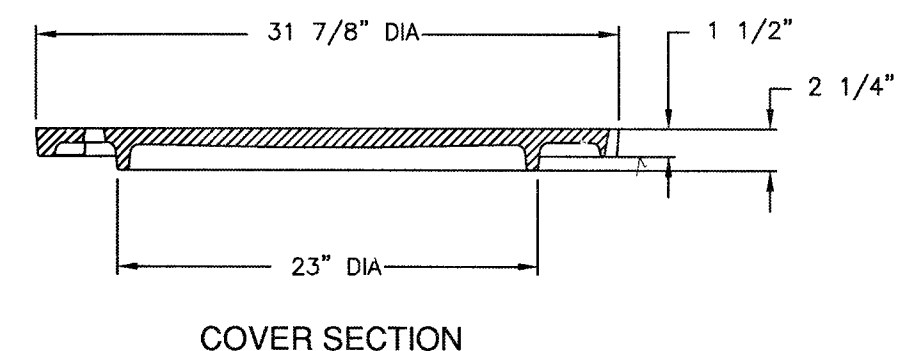
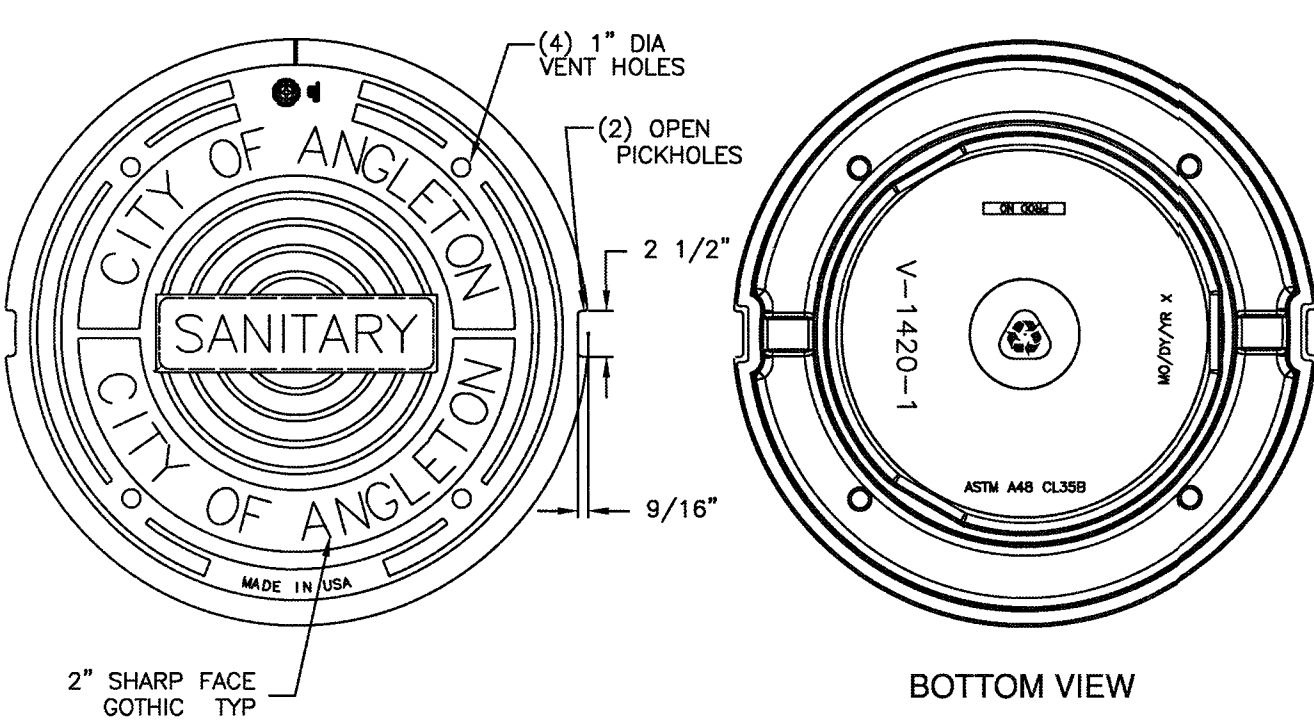


Paved Pedestrian Surface (if available) or Public Street

CLUSTER BOX UNIT (CBU) ACCESS MANEUVERING SPACE - MULTIPLE UNIT
G1-2-0 e3
USPS SOL 10/11/2016
Last Revised: 7/14/2016

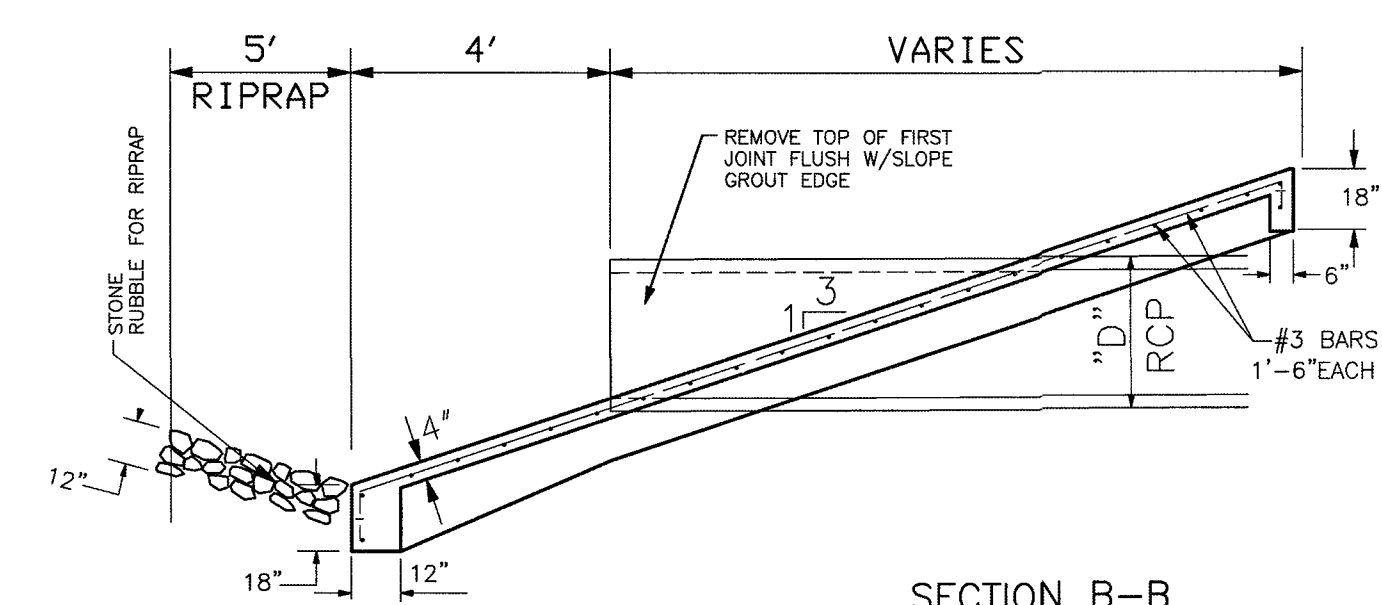
UNITED STATES POSTAL SERVICE
STANDARD DETAIL LIBRARY

V1420-1 Cover

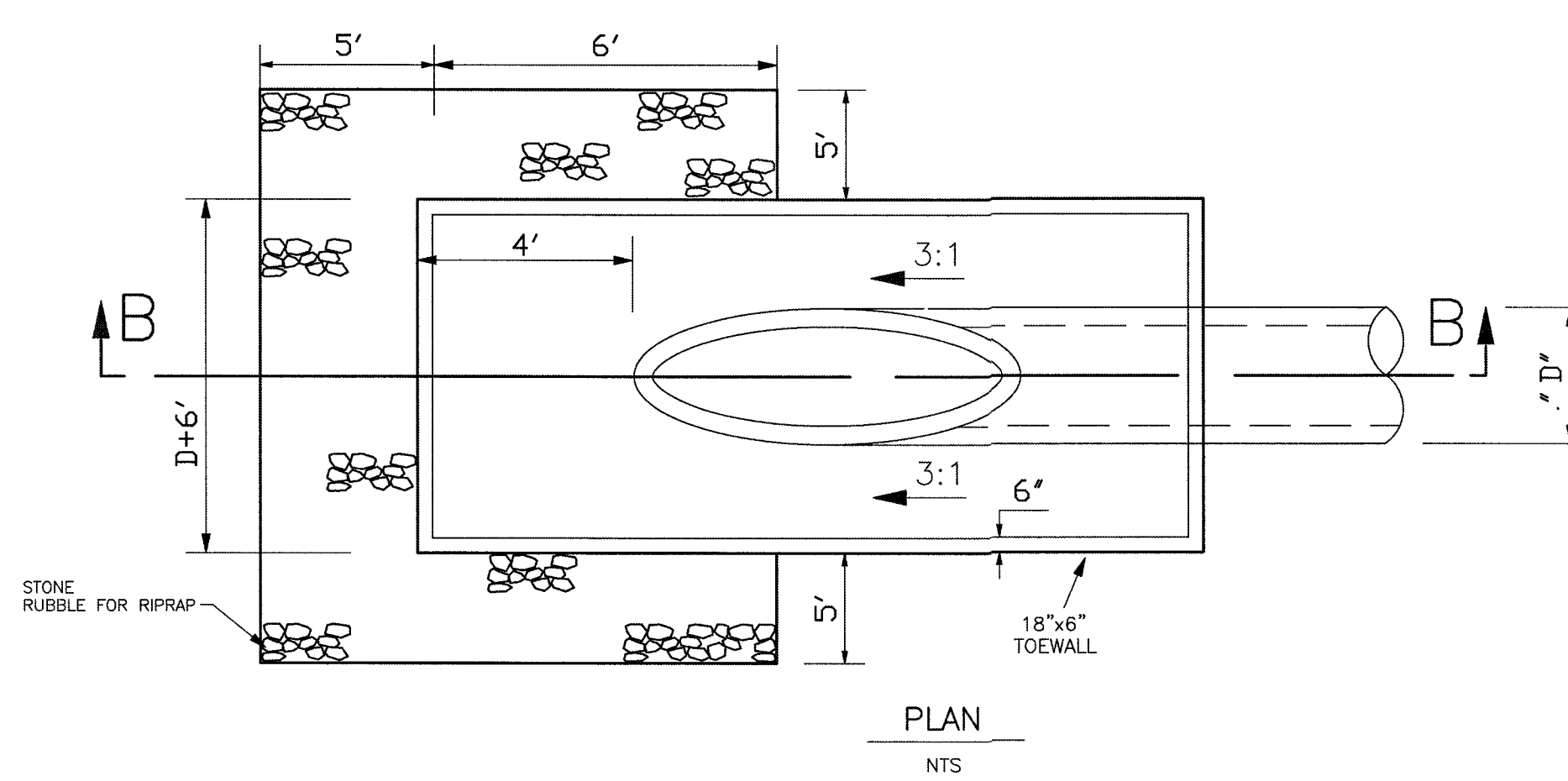


- NOTES:
1. MATERIAL SPECIFICATION SHALL BE ASTM A-48 CLASS 35B.
 2. COVER TO BE SOLID, WITHOUT HOLES AND WITH NON-PENETRATION RIM ACCESS RECESSES ONLY.
 3. HORIZONTAL BEARING SURFACES TO BE MACHINED AND SEALED AT INSTALLATION WITH WATERPROOF GREASE COATING.
 4. LOAD RATING TO BE HEAVY-DUTY.
 5. MANHOLE FRAMES AND COVERS SET IN FARM TO MARKET ROADS OR HIGHWAYS SHALL FOLLOW TxDOT SPECIFICATIONS. (UNLESS OTHERWISE NOTED BY ANGLETON)

1 32" Manhole Cover and Frame
Scale: NTS



SECTION B-B

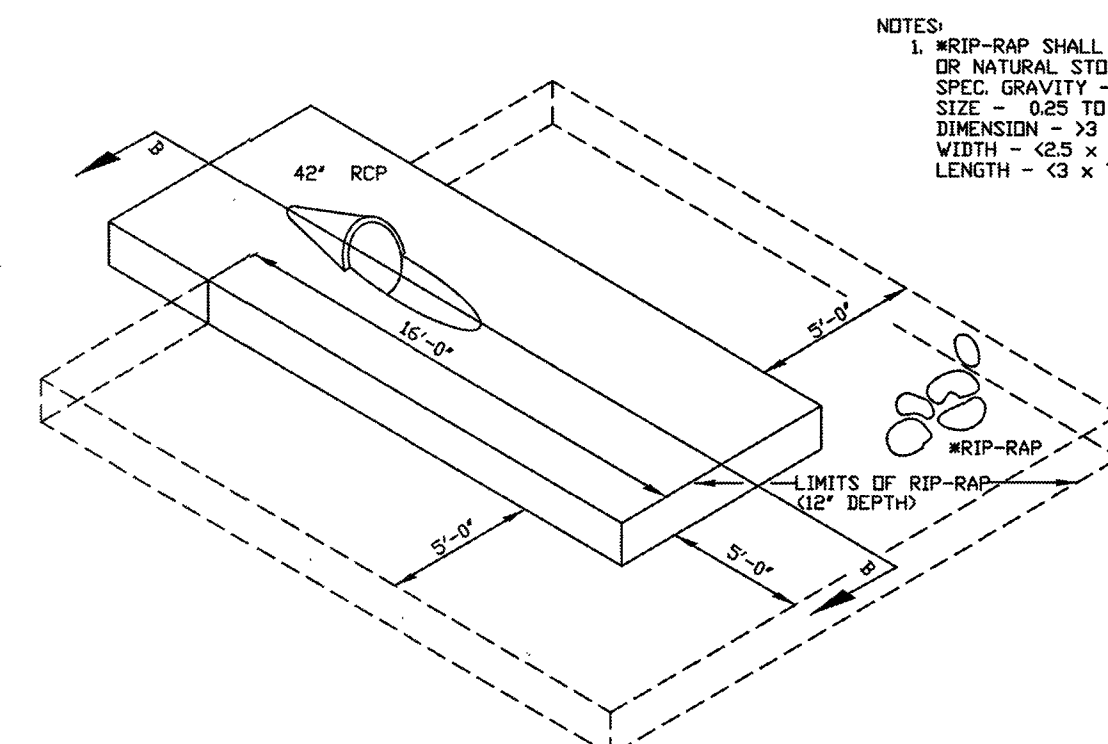


PLAN

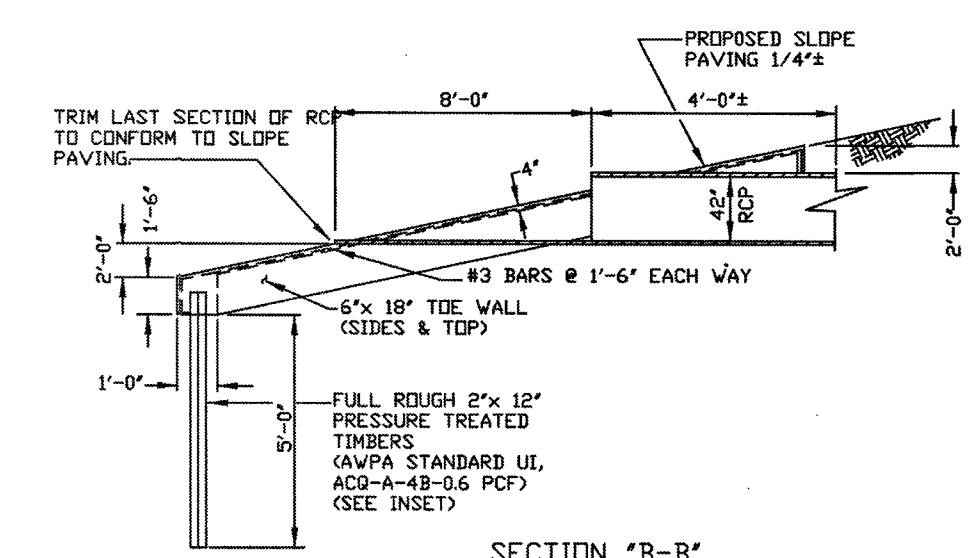
VELASCO DRAINAGE OUTFALL CHANNEL

STANDARD CONCRETE SLOPE PAVING PIPE OUTFALL

NTS

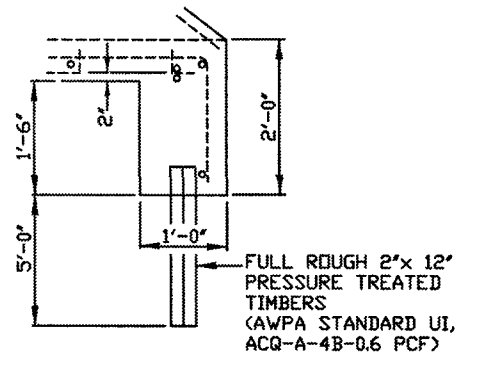


ISOMETRIC VIEW



SECTION 'B-B'

VELASCO DRAINAGE OUTFALL CHANNEL



INSET

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
1	9/21/21	ADD RAMP DETAIL	

DESIGNED MS
DRAWN
CHECKED
DATE

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ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825

STATE OF TEXAS
MIGUEL ANGEL A. SAUCEDA
121992
REGISTERED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

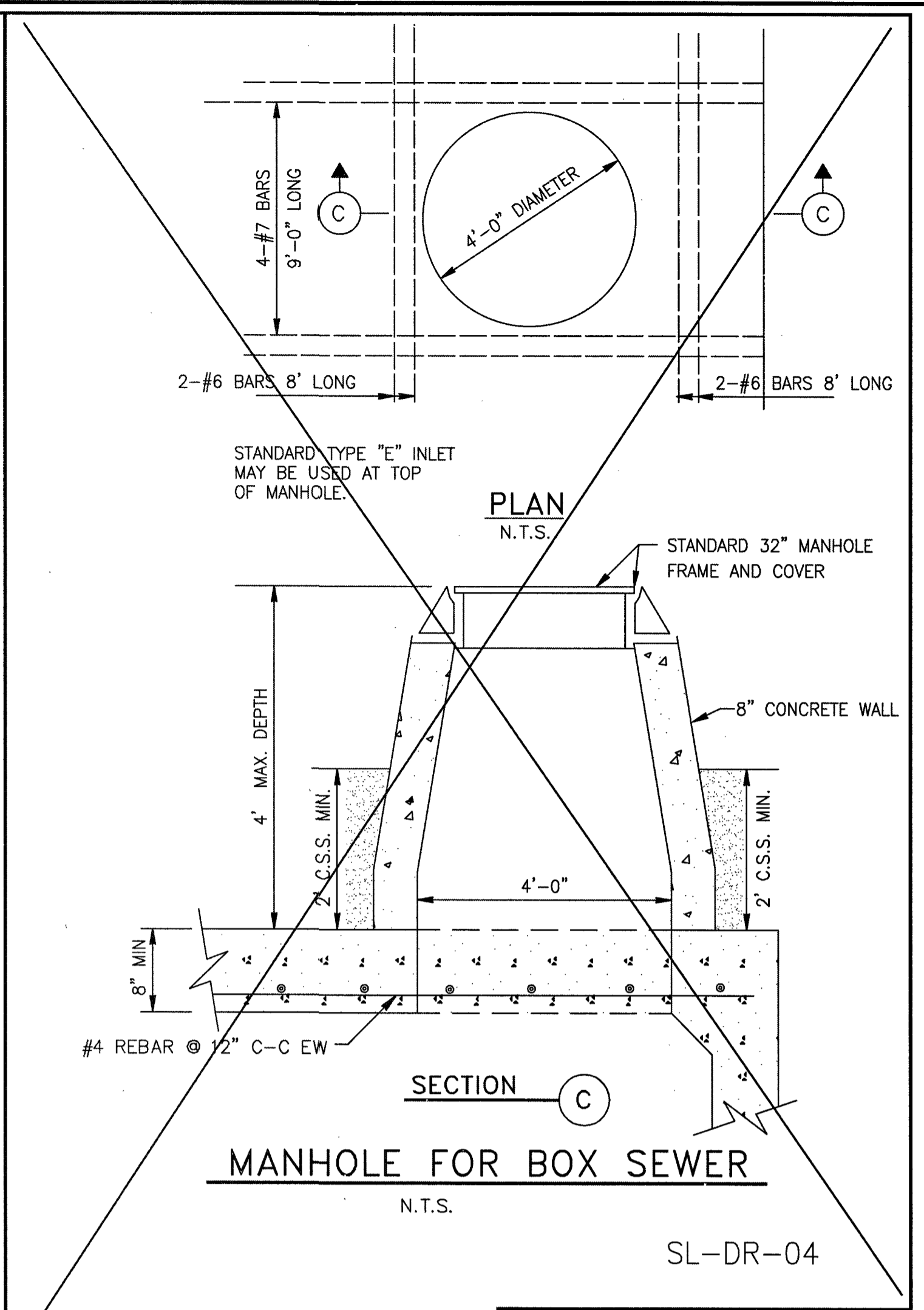
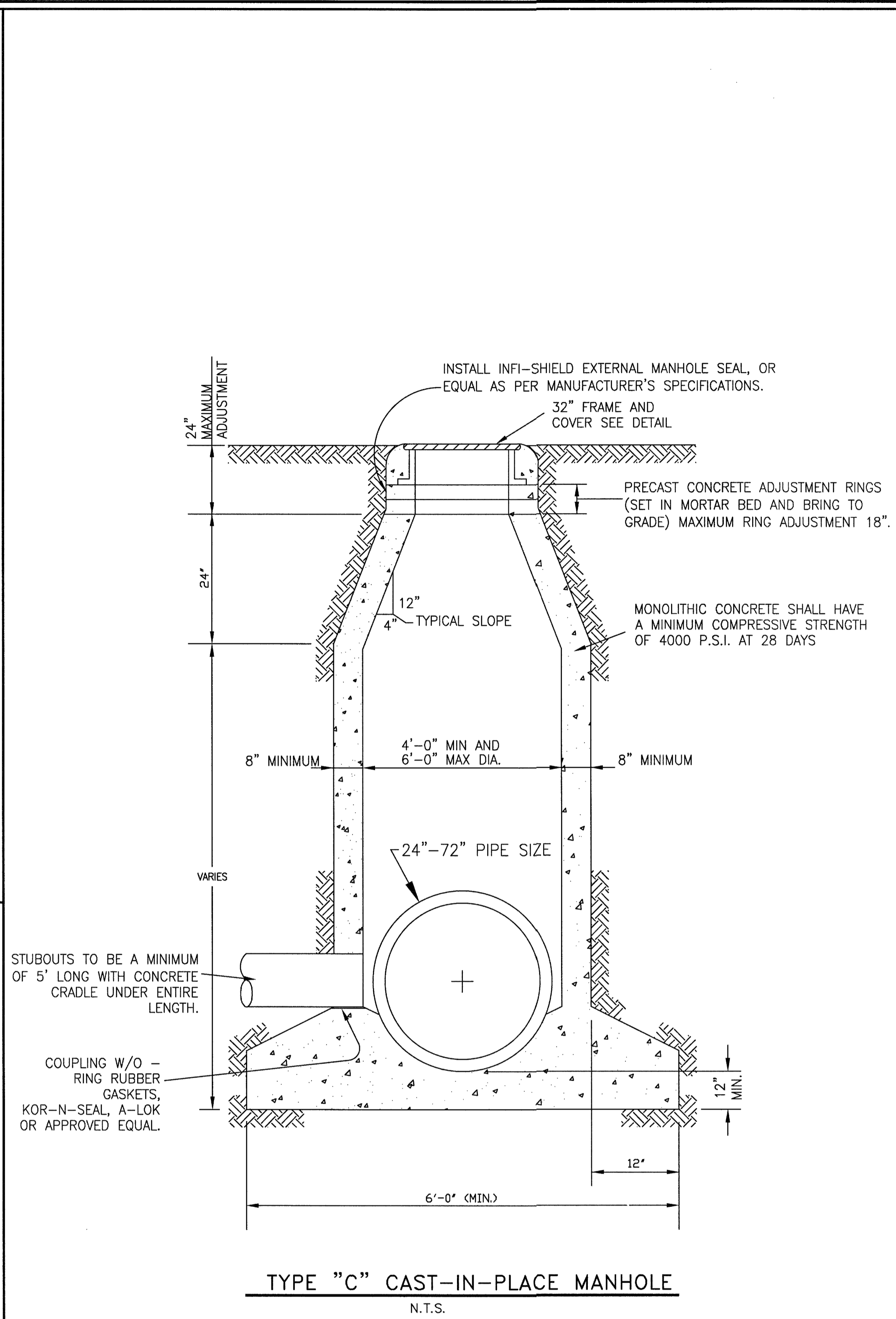
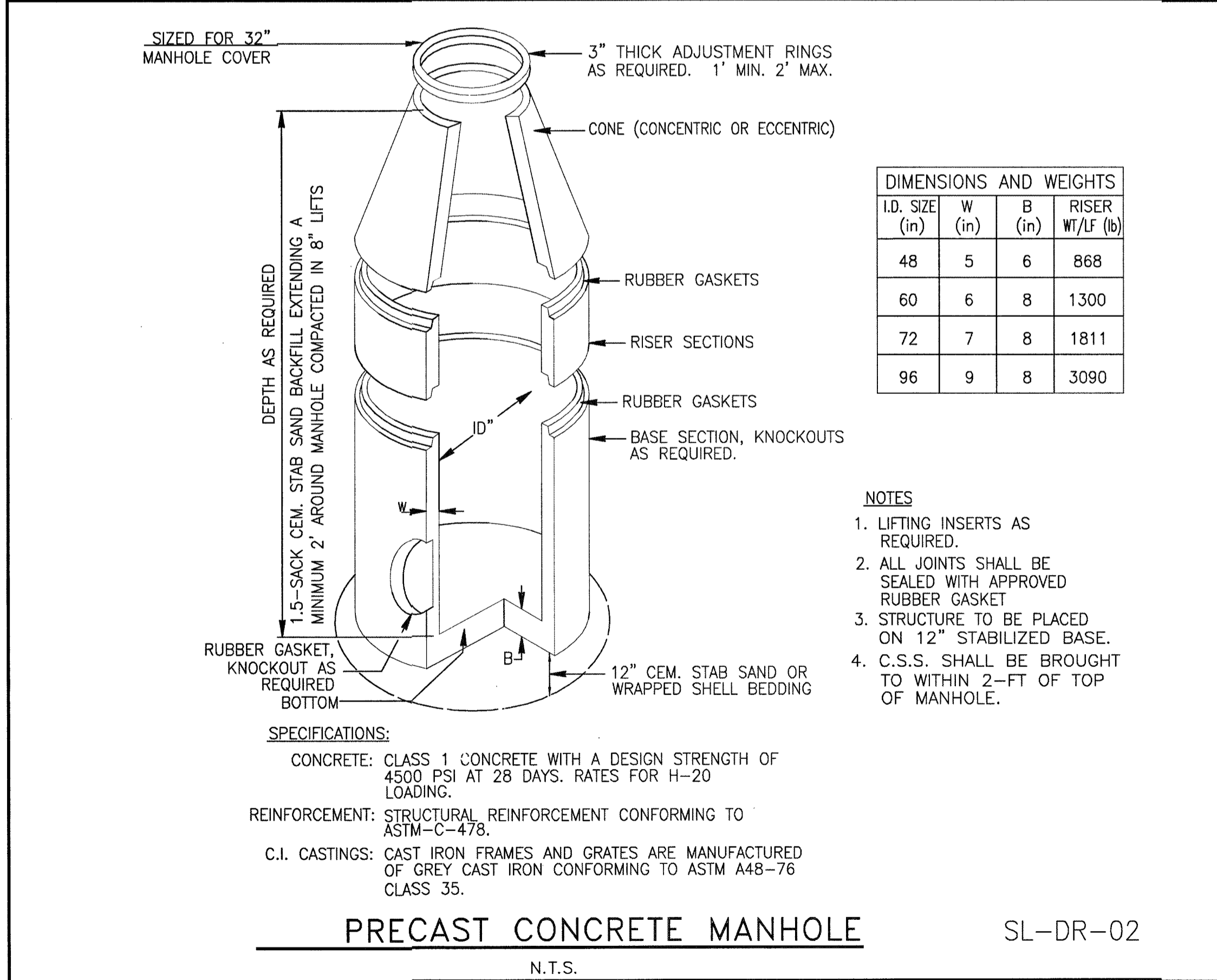
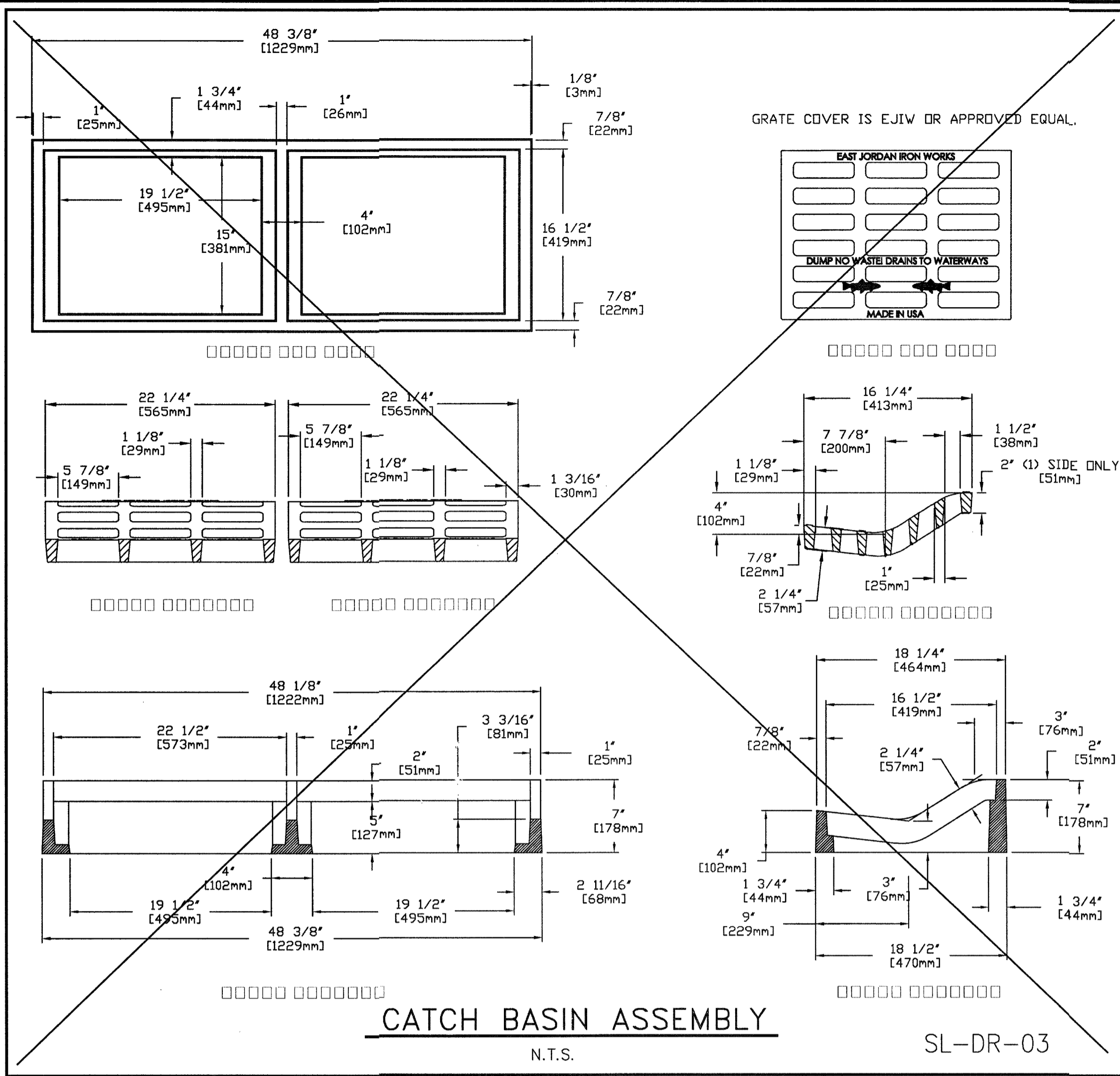
OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

PLAN:
PROFILE:
HORIZONTAL:
VERTICAL:

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

MISCELLANEOUS DETAILS

PROJECT NO. 13743



- GENERAL CONSTRUCTION NOTES:**
1. ALL CAST CONCRETE BASES AND WALLS SHALL HAVE # 4 REBAR @ 12" C-C EW
 2. CONCRETE SHALL BE 3000 PSI MIN.
 3. USE C.S.S. BEDDING AS PER DETAILS 1 1/2 SK, COMPACTED 8" LIFTS (MAX.) TO 95% STANDARD.


REFER TO:

1. GENERAL NOTES, C.S.S. & CONCRETE NOTES.
2. STORM SEWER NOTES

No.	DATE	REVISION

SEAL: _____

DESIGN ENGINEER: _____ DATE: _____


 CITY OF SUGAR LAND, TEXAS
 ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

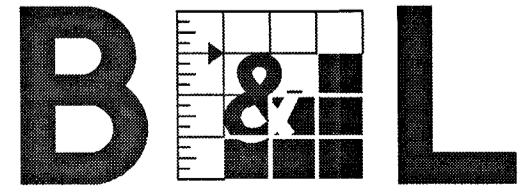
STORM SEWER MANHOLE CONSTRUCTION DETAILS

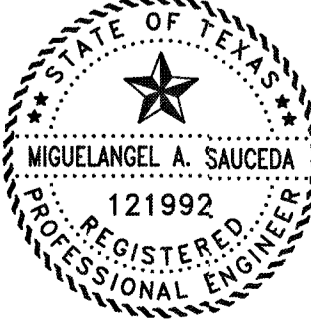
JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:	SL-03 SHEET OF
---	--------------------------

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED MS
 DRAWN BT
 CHECKED
 DATE


BAKER & LAWSON, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 4005 TECHNOLOGY DRIVE, SUITE 1530
 ANGLETON, TEXAS 77515 (979) 949-6681
 REG. NO. F-825


 MIGUELANGEL A. SAUCEDO
 121992
 REGISTERED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992

Date: 11/22/21

OWNER:

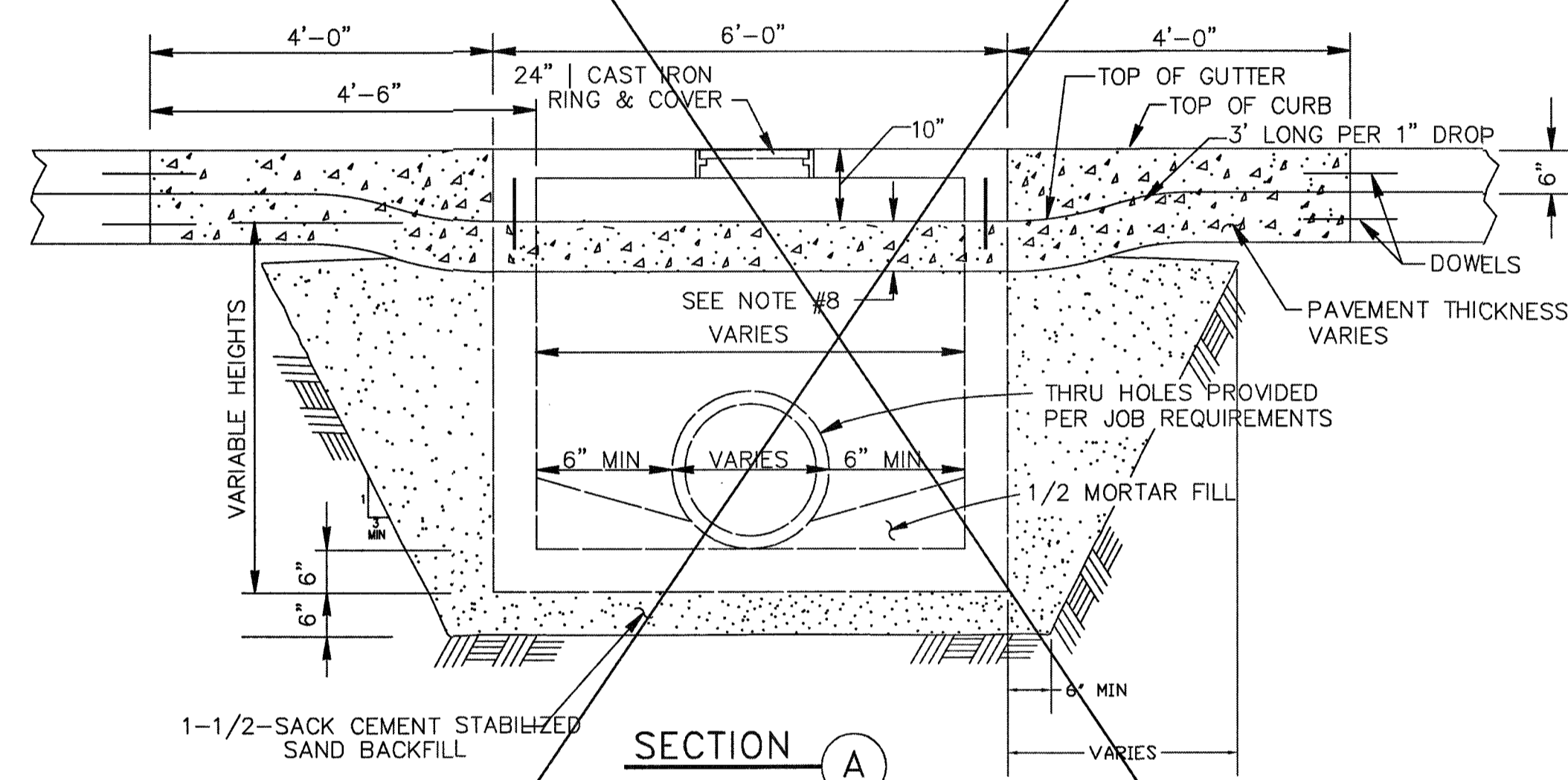
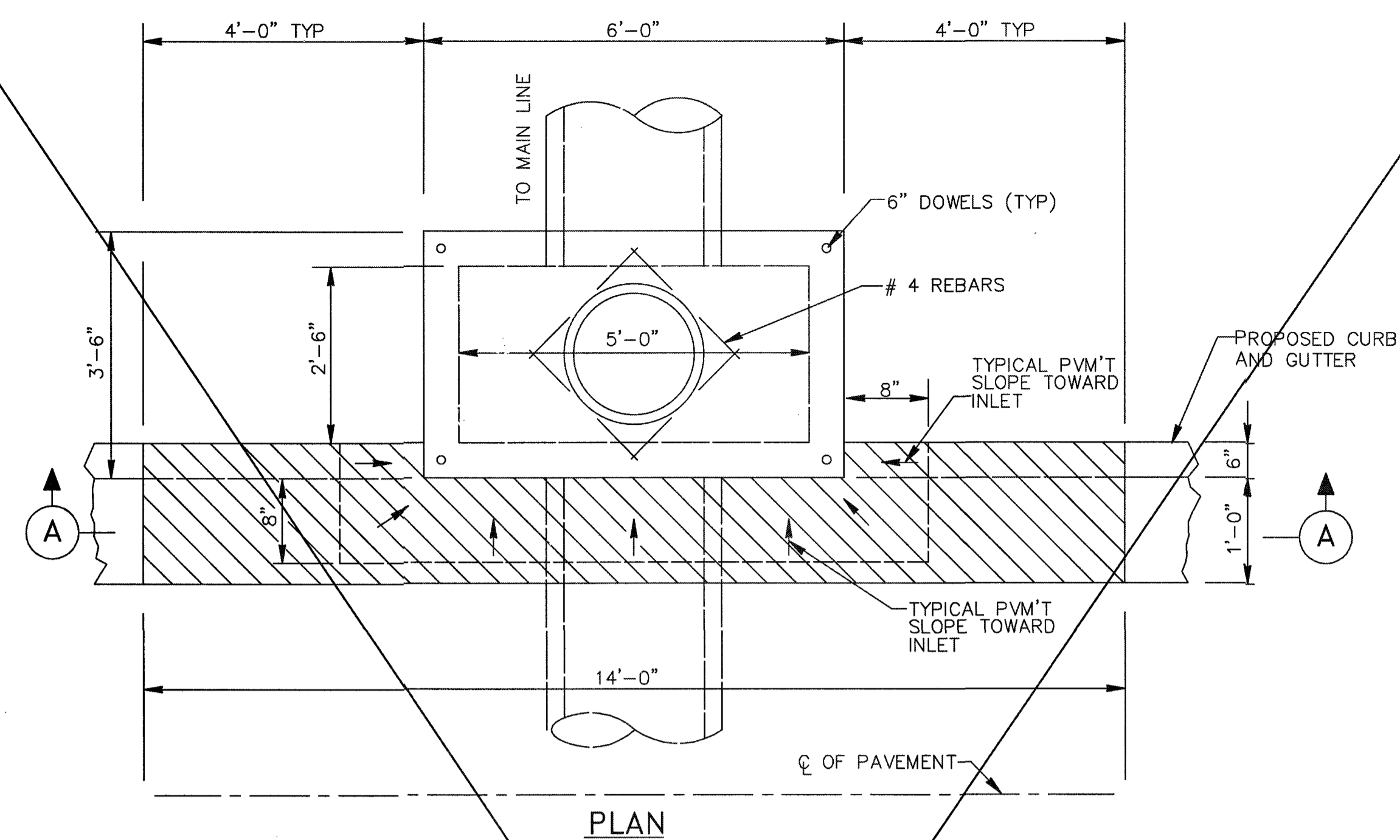
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: _____
 PROFILE: _____
 HORIZONTAL: _____
 VERTICAL: _____

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

STORM SEWER MANHOLE
 CONSTRUCTION DETAILS
 SL-03

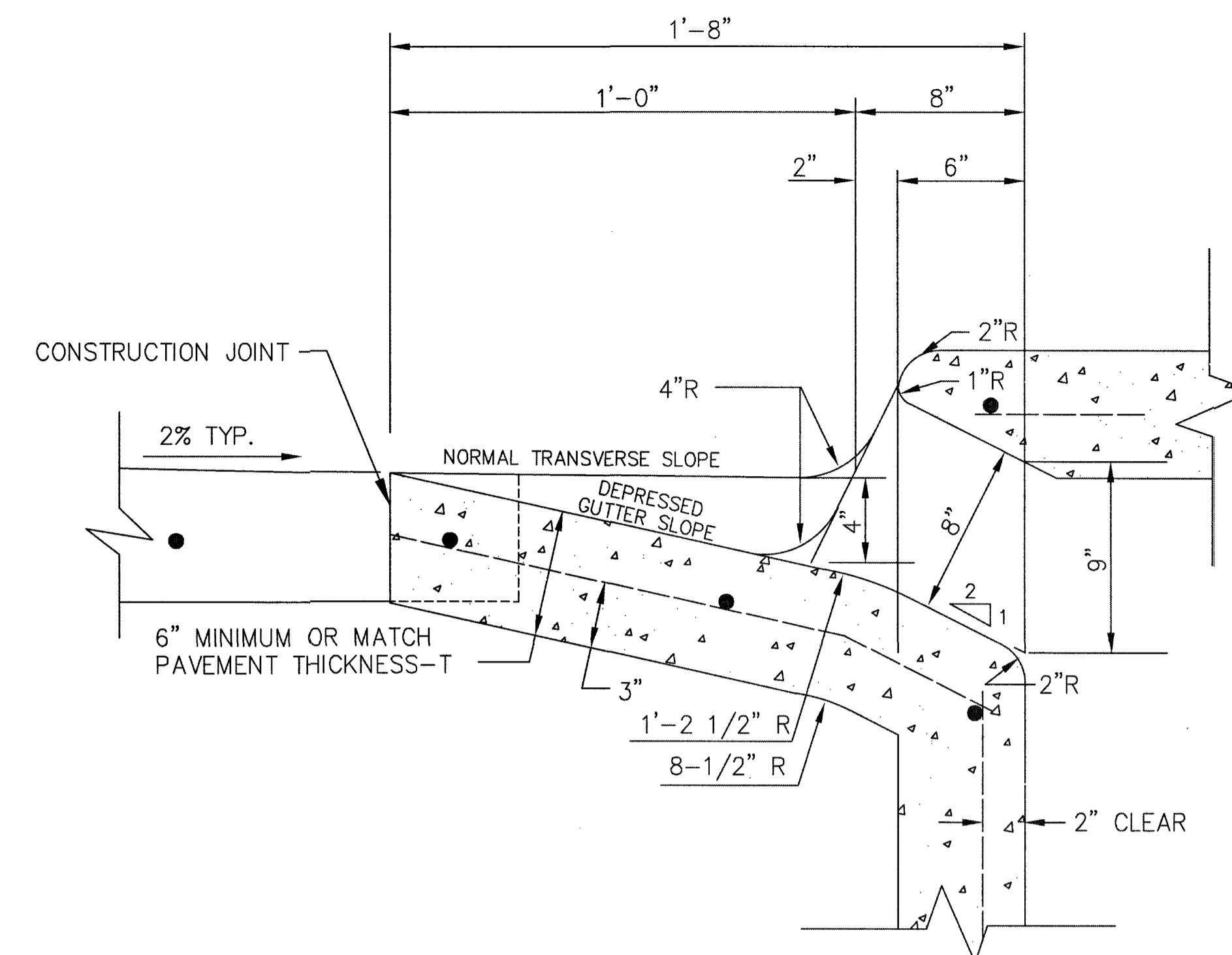
PROJECT NO. 13743



TYPE "H-2" INLET

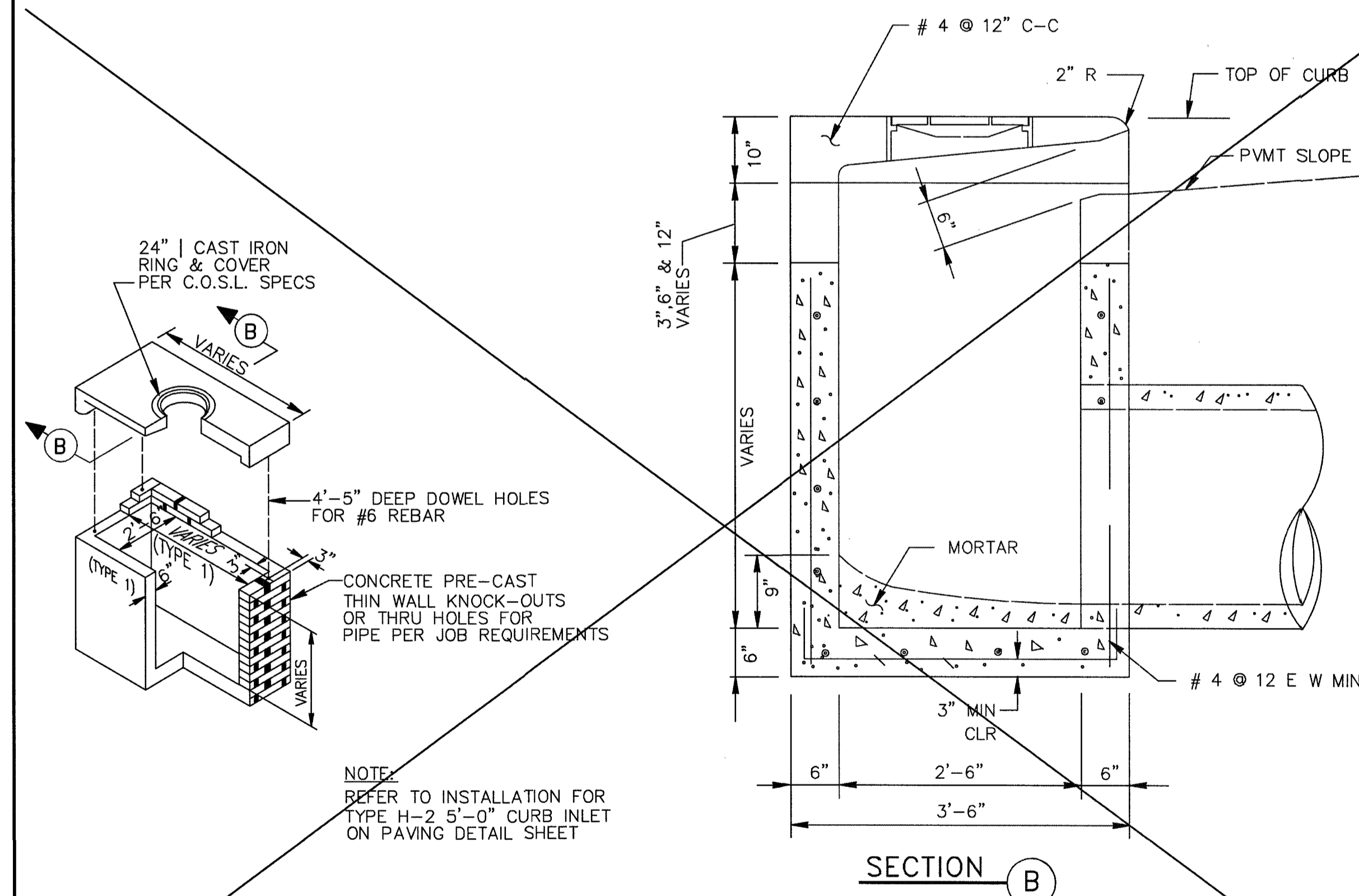
SL-DR-25

- NOTES:**
1. INLET WALLS MAY BE EXTENDED USING PRECAST RISER SECTION.
 2. INLET TOPS MUST BE SECURED TO THE INLET WALL USING #6 DOWELS DRILLED AND GROUTED A MINIMUM DEPTH OF 5" INTO THE INLET WALL. A PLAN PREPARED BY THE MANUFACTURER MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION. THE PLAN SHOULD DETAIL CONNECTIONS AND SEALING OF JOINTS.
 3. PRECAST INLET TOPS SHALL NOT UTILIZE MULTIPLE ONE-FOOT SECTIONS TO ACHIEVE GRADE.
 4. INLET BACKFILL SHALL BE CEMENT STABILIZED SAND TO THE TOP OF THE INLET FIRST STAGE.
 5. GRADE 60 REINFORCEMENT. #4 STEEL REBAR TO CONFORM TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.
 6. PRECAST INLET MUST BE CONSTRUCTED TO SPECIFICATIONS REQUIRED BY APPROVED DRAWINGS. (SEE GENERAL NOTES).
 7. TOPS POURED-IN-PLACE REQUIRE #4 REBAR @ 12" C-C EACH WAY, 4,500 PSI CONCRETE MINIMUM AND 3" THICK MINIMUM.
 8. PAVEMENT DEPTH AT INLET SHALL BE EQUAL TO OR GREATER THAN REQUIRED PAVEMENT DEPTH.
 9. DEPRESS GUTTER TO INLET.
 10. ALL SIDES OF ALL INLETS MUST BE COMPACTED.
 11. REFER TO GEOTECHNICAL REPORTS FOR RECOMMENDED TRENCH SIDE SLOPES.



SCALE: N.T.S.

SL-DR-40




TYPE "H-2" PRECAST INLET

N.T.S.

SL-DR-26

REFER TO:

1. GENERAL NOTES
2. SEE C.S.S., PAVEMENT NOTES

No.	DATE	REVISION		
SEAL:				
_____ DATE _____				
DESIGN ENGINEER:				
<div style="text-align: center;"> CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT</div> <p style="text-align: center;"><u>CONSTRUCTION PLANS FOR:</u></p> <div style="text-align: center;">STORM SEWER INLET CONSTRUCTION DETAILS II</div> <table><tr><td>JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:</td><td>SL-08 SHEET OF</td></tr></table>			JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:	SL-08 SHEET OF
JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:	SL-08 SHEET OF			

RECORD D

STORM SEWER INLET CONSTRUCTION DETAILS II

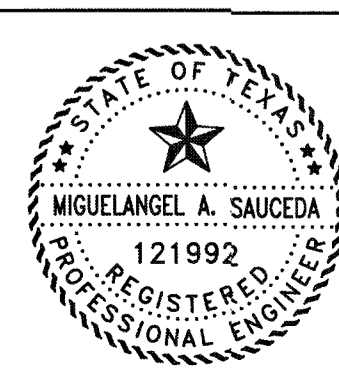
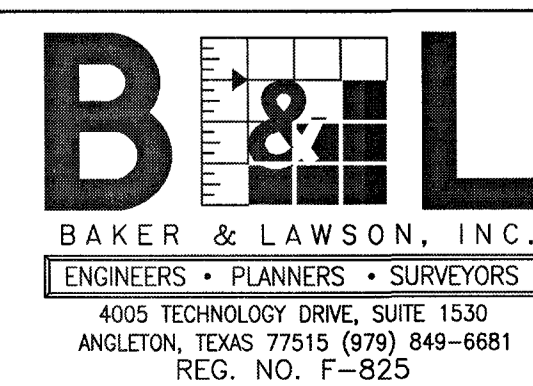
SL-08

RECORD D


RECORD D

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED MS
DRAWN BT
CHECKED
DATE



The seal appearing on
this document was
authorized by
Miguelangel A. Saucedo
P.E. 121992


Date: 11/22/21

Date: 11/22/21

OWNER:

DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: _____
 PROFILE: _____
 HORIZONTAL: _____
 VERTICAL: _____

PROFILE:

HORIZONTAL:

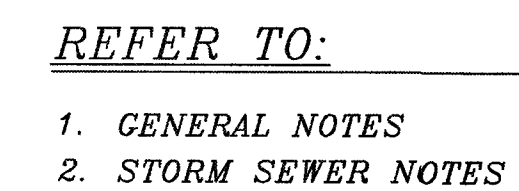
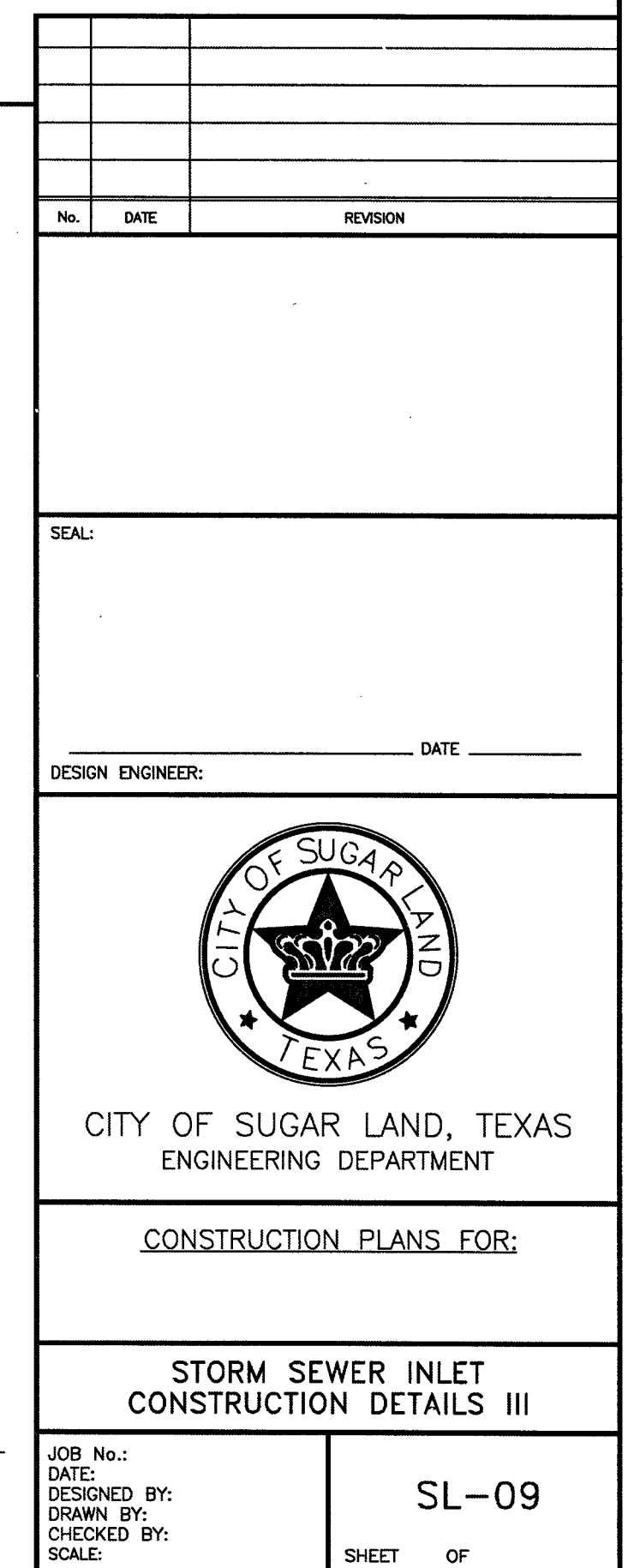
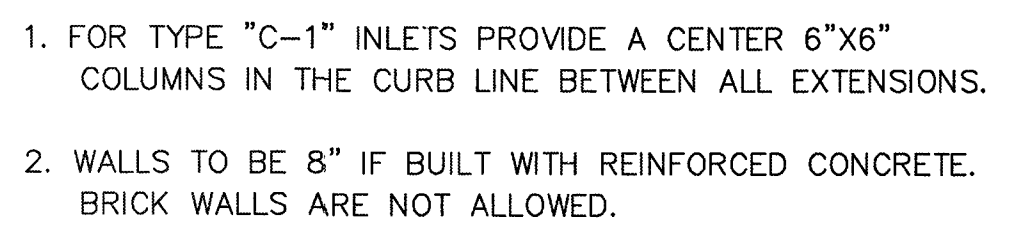
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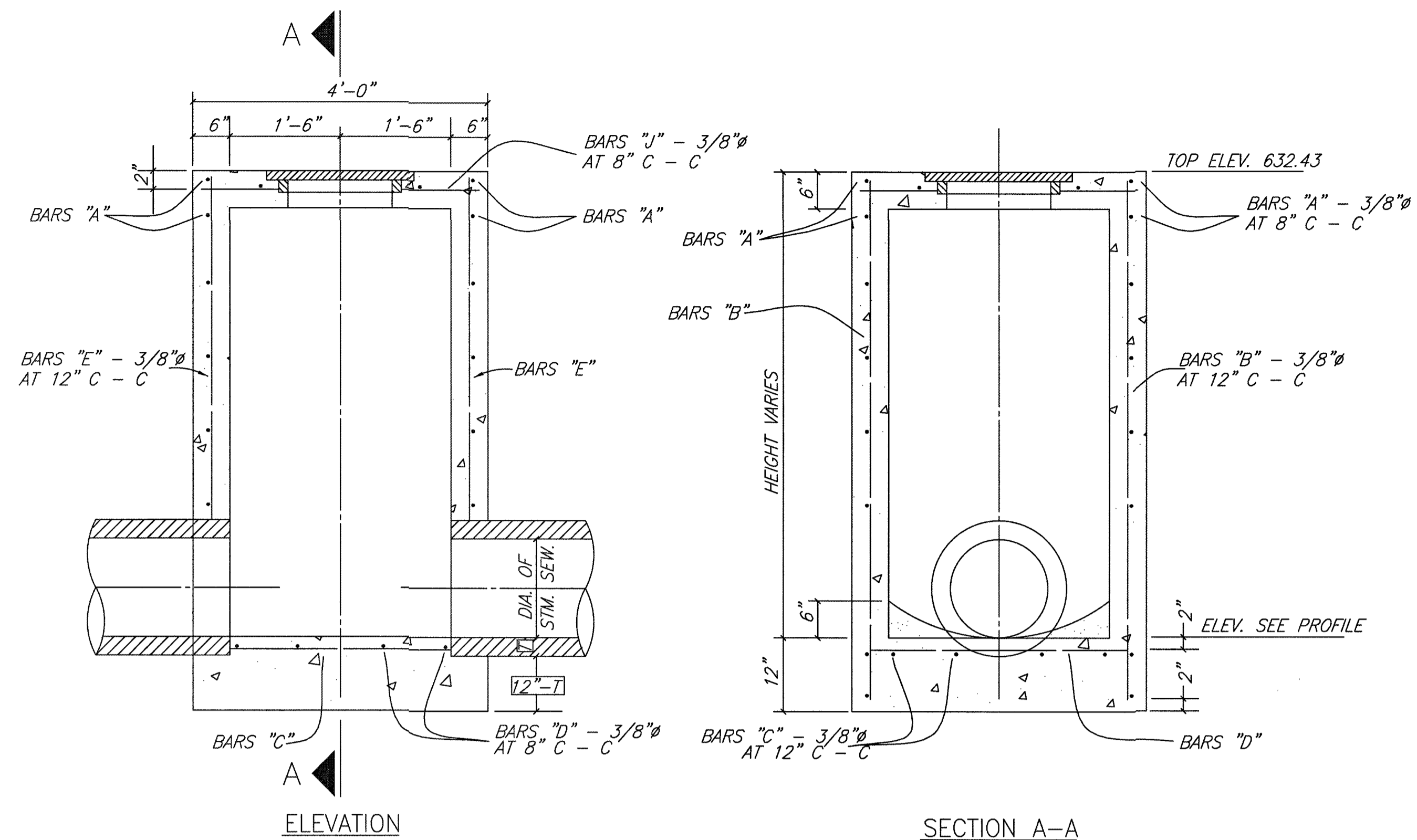
GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

STORM SEWER INLET
CONSTRUCTION DETAILS II
SL-08

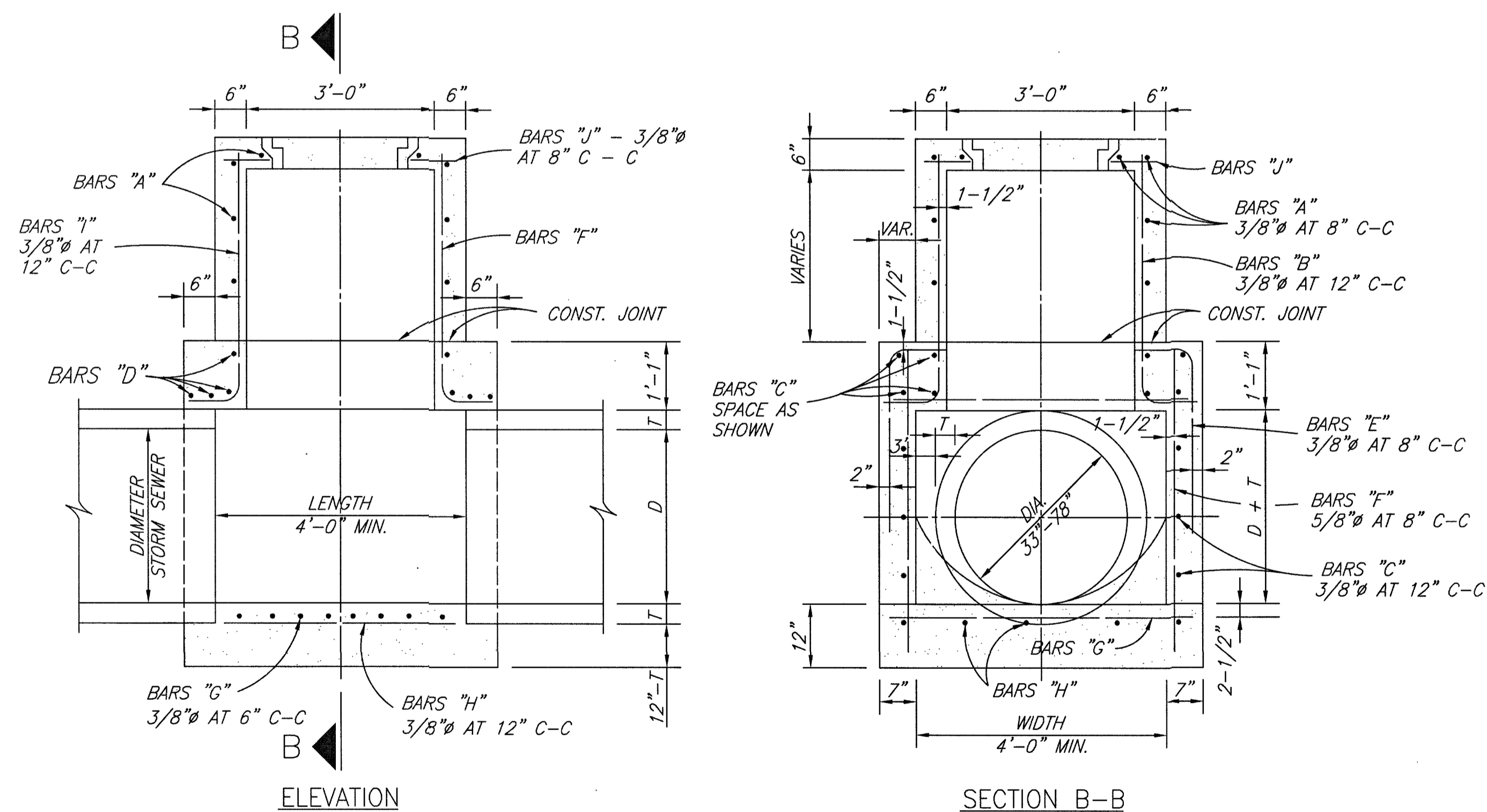
PROJECT NO. 13743

23 7717






STORM SEWER TYPE A MANHOLE
MAX. PIPE SIZE 30" - N.T.S.



TYPE B STORM SEWER MANHOLE
MAX. PIPE SIZE 78" - N.T.S.

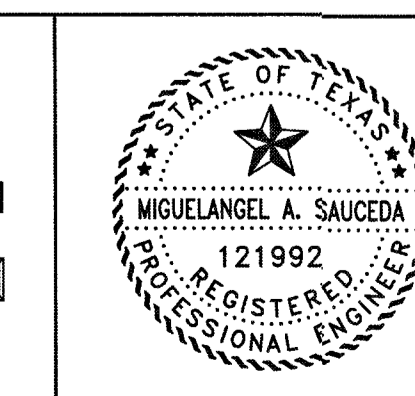
No.	DATE	REVISION
SEAL:		
DESIGN ENGINEER: _____ DATE: _____		
 CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT		
CONSTRUCTION PLANS FOR:		
JUNCTION BOX MANHOLES		
JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:	SL-11 SHEET OF	

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	MS
DRAWN	BT
CHECKED	
DATE	

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ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

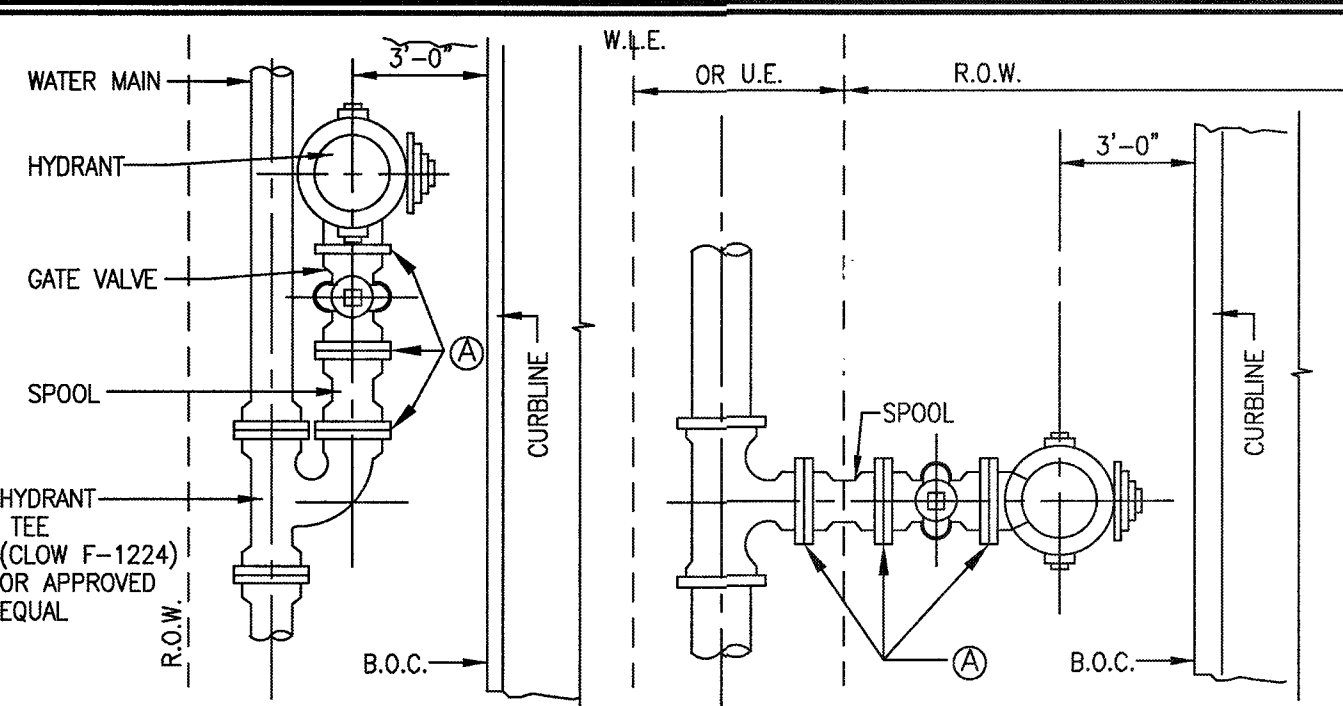
PLAN: _____
PROFILE: _____
HORIZONTAL: _____
VERTICAL: _____

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

JUNCTION BOX
MANHOLES
SL-11
PROJECT NO. 13743

PLAN

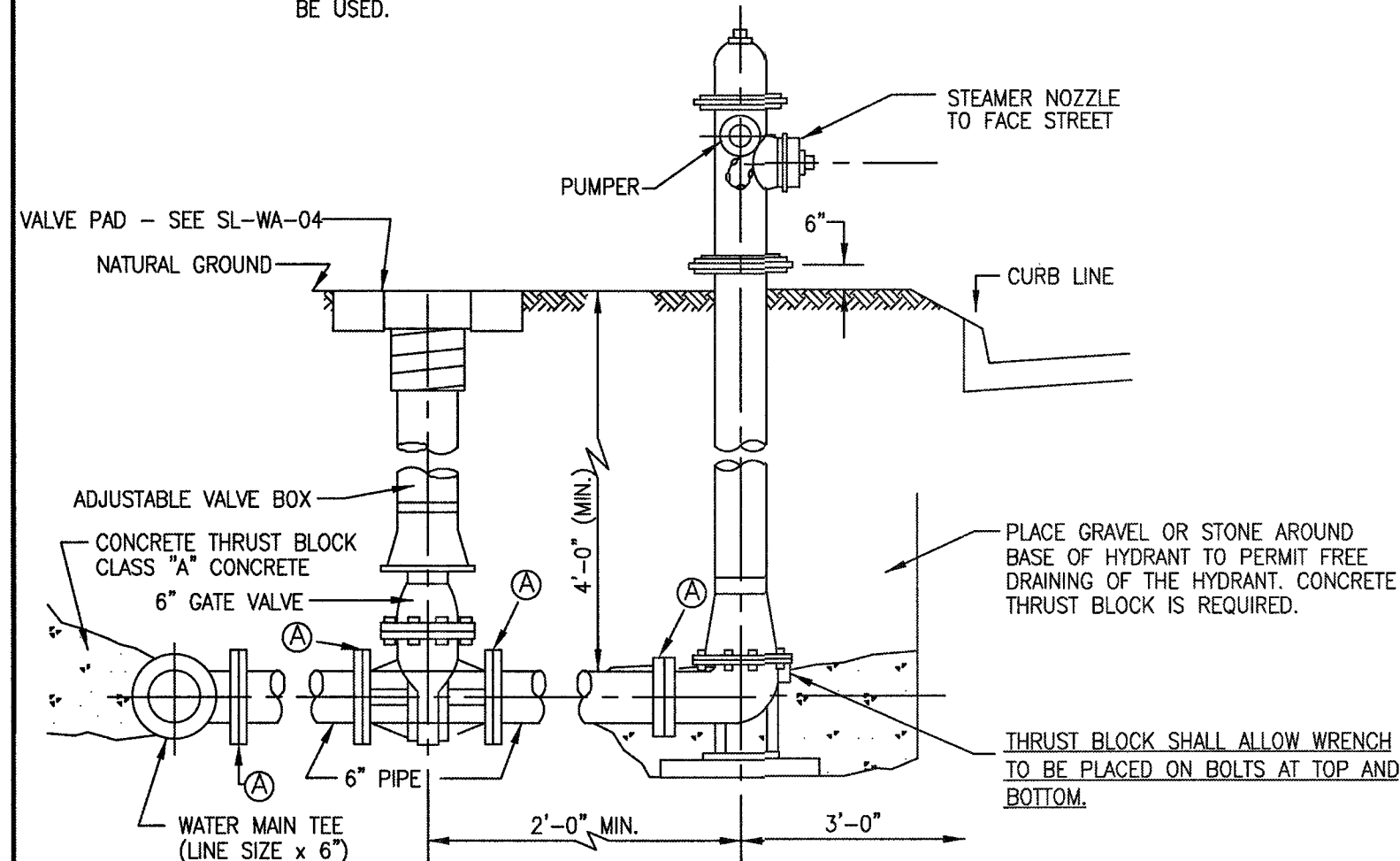
DATE



R.O.W. INSTALLATION

EASEMENT INSTALLATION

NOTE:
WHEN WATER LINE IS LOCATED IN EASEMENT, STANDARD TEE MAY BE USED.



TYPICAL GATE & FIRE HYDRANT INSTALLATION

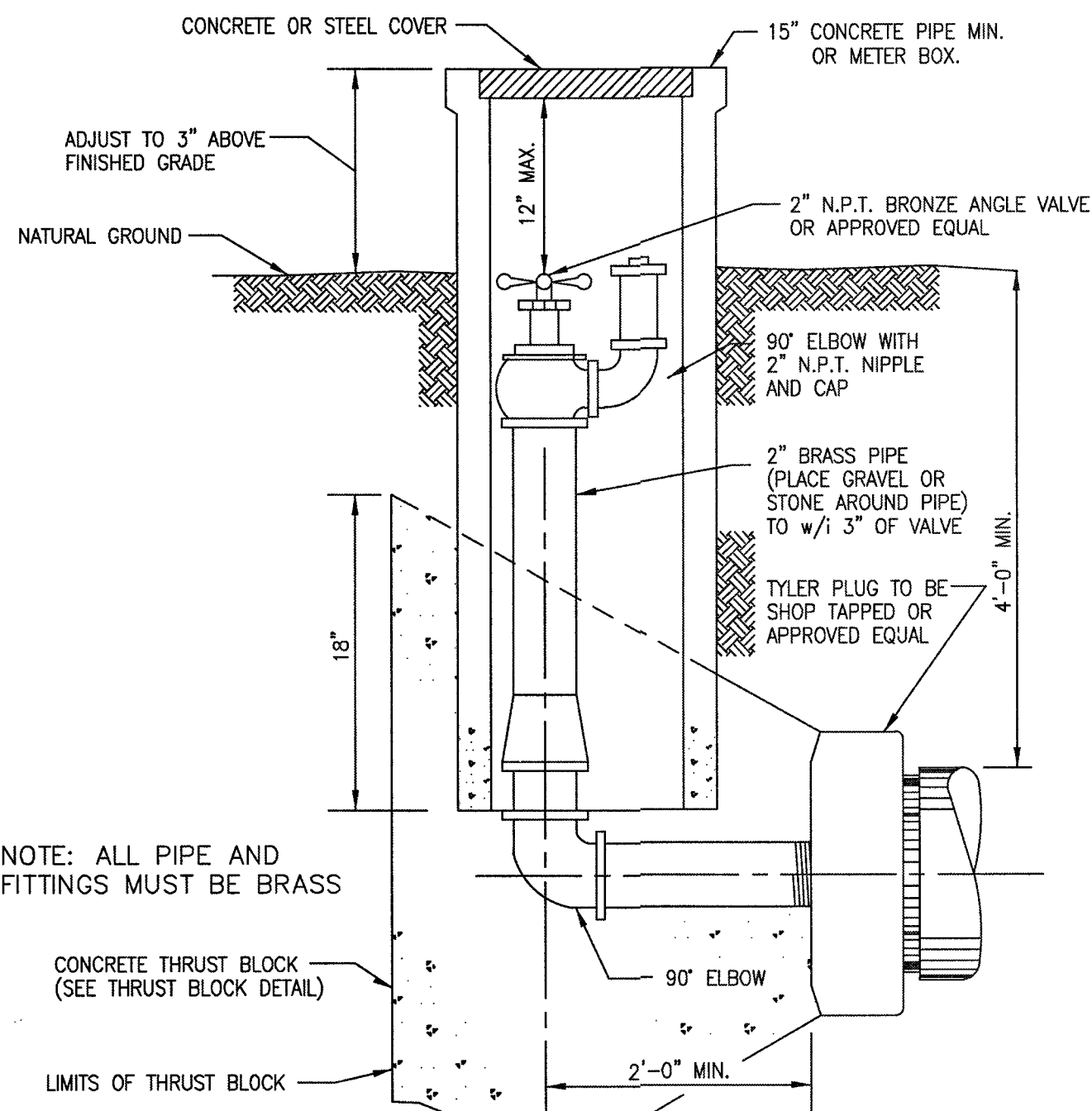
SL-WA-01

FLUSHING VALVE COLOR CODE
MAIN LINE DIAMETER
6 INCHES (AND LESS) --- YELLOW
8 INCHES --- WHITE
12 TO 16 INCHES --- GREEN
GREATER THAN 16 INCHES --- ORANGE
FIRE HYDRANT BODY TO BE PAINTED GEO-GLEN 301 BRIGHT SILVER ALUMINUM POLYURETHANE ENAMEL, BY GEO-GLEN ENTERPRISES OR APPROVED EQUAL.

NOTE:
ALL FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 W/ STORZ INTEGRAL CONNECTOR STEAMER NOZZLE SIZE 5-1/4" TWO PUMPER 2-1/2" N.S.T.

ALL FLUSHING VALVES TO BE SAND BLASTED AND PAINTED AS PER C.O.S.L. DESIGN STANDARDS.

Ⓐ = RESTRAINED JOINT

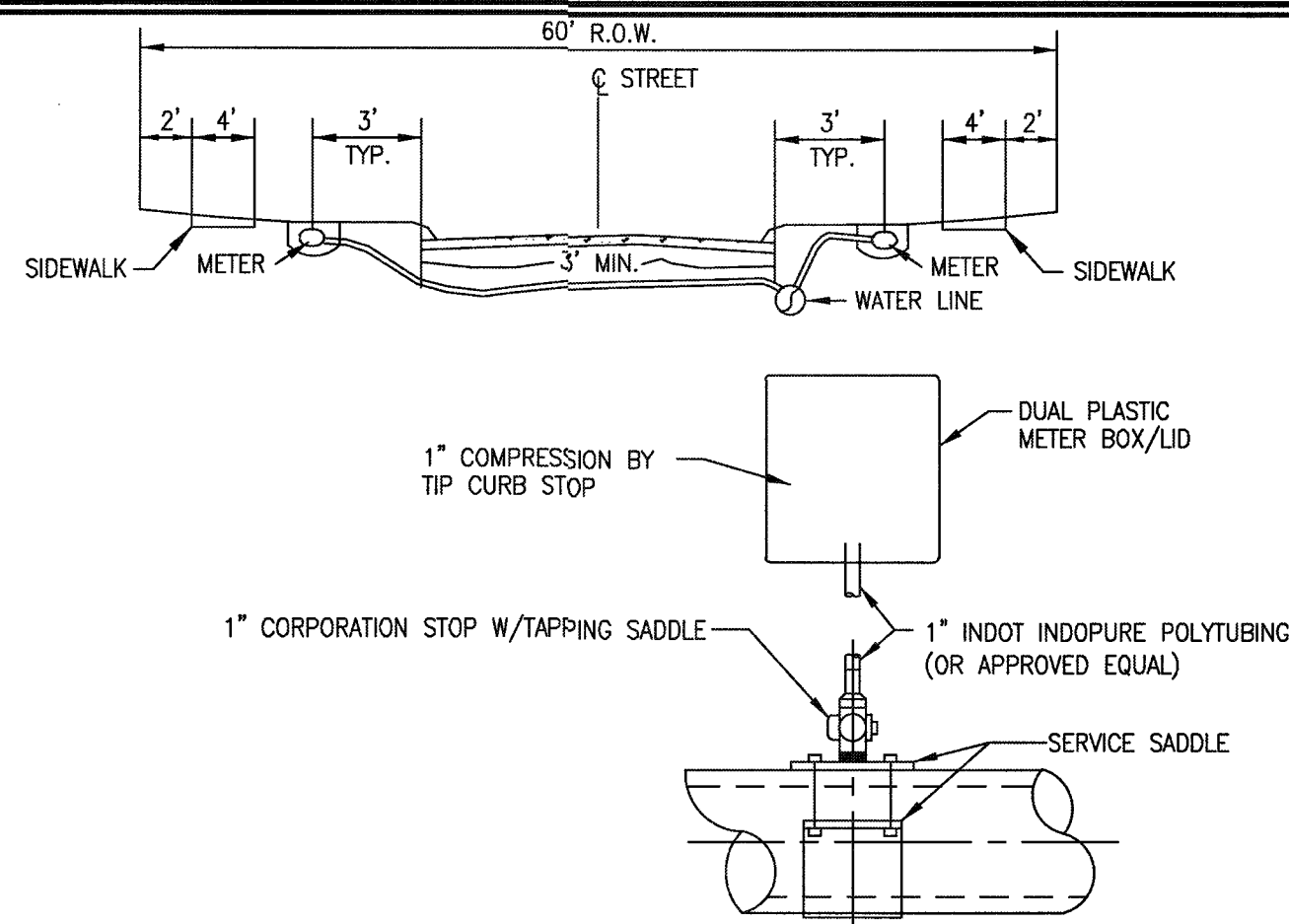


2" BLOW OFF VALVE ASSEMBLY

N.T.S.

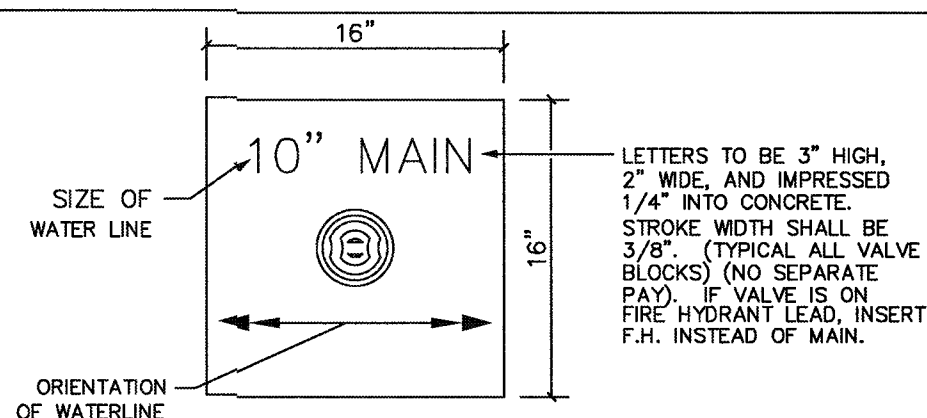
SL-WA-02

NOTE: ALL PIPE AND FITTINGS MUST BE BRASS



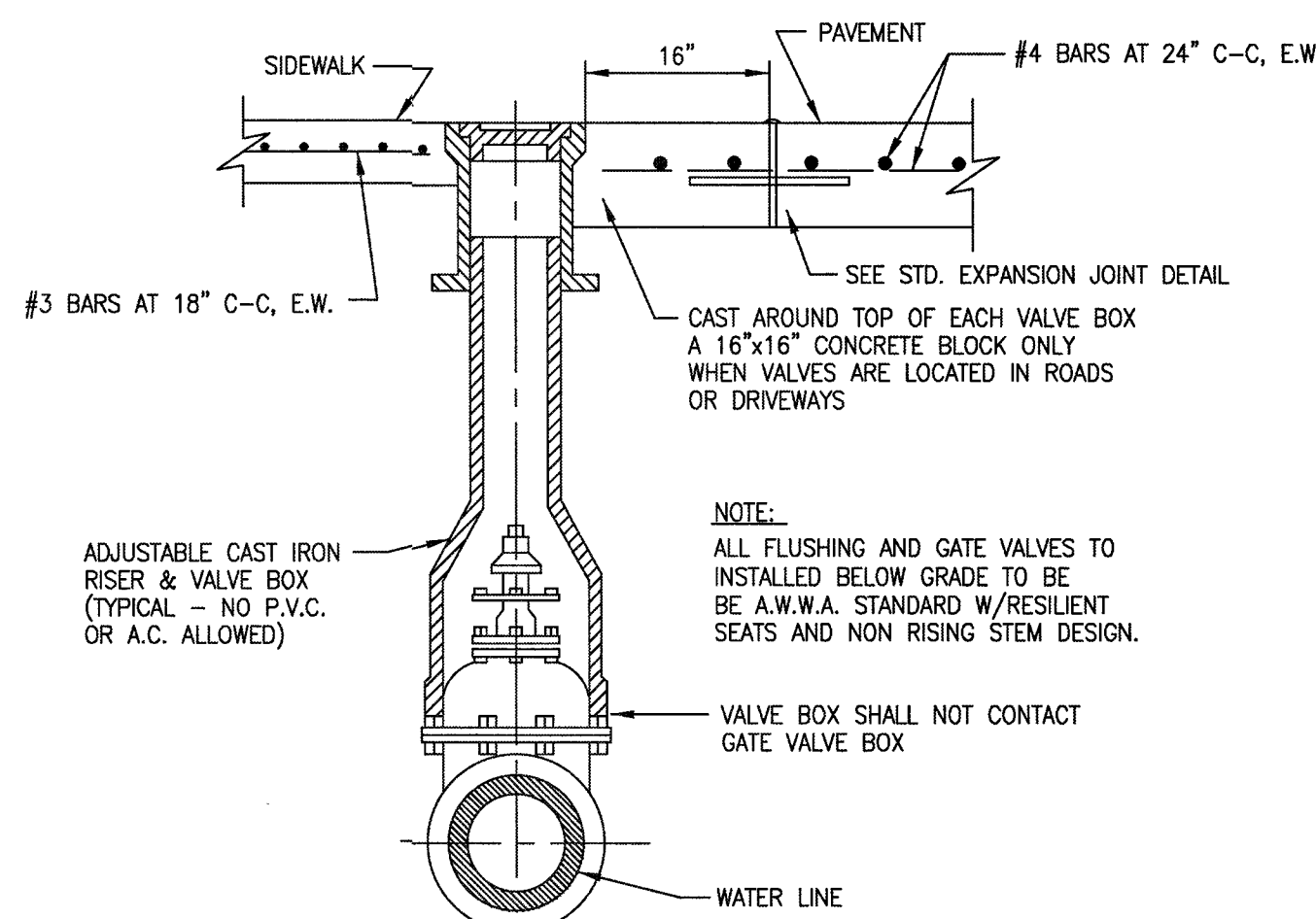
WATER SERVICE CONNECTION AND WATER SERVICE TAPPING ASSEMBLY DETAIL

SL-WA-03



CONCRETE PAD

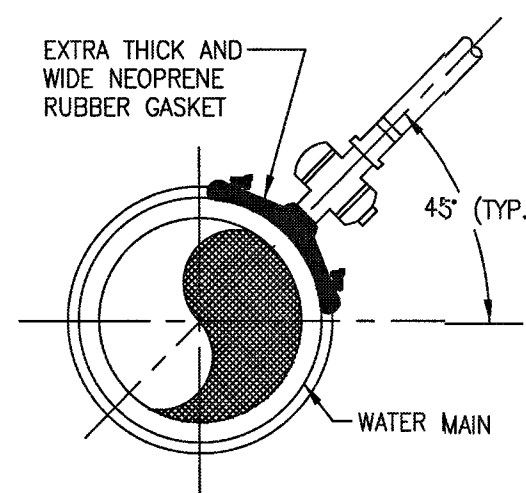
NOTE: ALL VALVES MUST HAVE CONCRETE PAD



VALVE BOX INSTALLATION DETAIL

N.T.S.

SL-WA-04



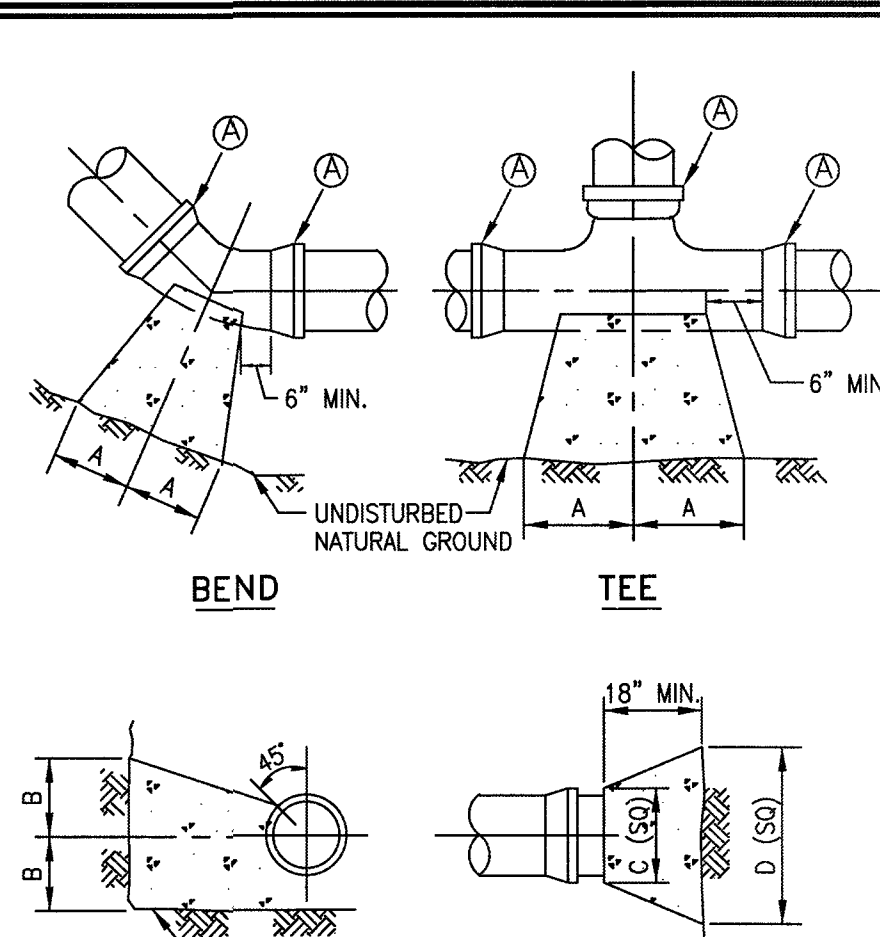
TAPPING SLEEVE & VALVE DETAIL

N.T.S.

MUELLER BRONZE SERIES 13400, ROCKWELL 315 (EPOXY COATED), FORD 101 (EPOXY COATED) OR APPROVED EQUAL TAPPING SLEEVE TO BE AS PER C.O.S.L. APPROVED PRODUCTS LIST.

TOP VIEW

SL-WA-07



BEND & TEE

PLUG

THRUST BLOCK DETAIL

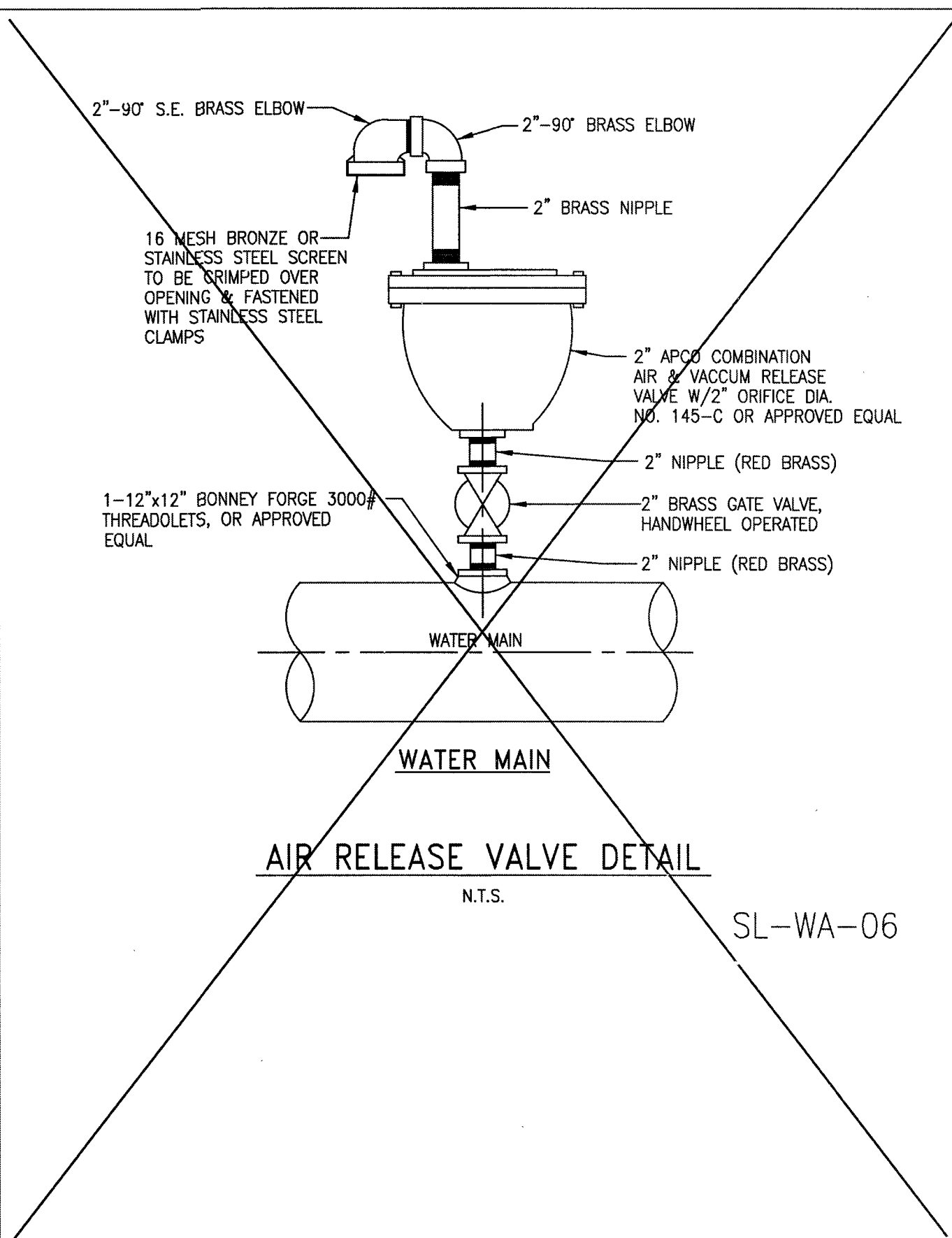
N.T.S.

SL-WA-05

NOTE:

THRUST BLOCKS AT TRENCH FACE MUST HAVE A MINIMUM BEARING SURFACE OF 10 SQ. FEET AND SHALL BE NO SMALLER THAN 1.5 TIMES PIPE DIAMETER. ALL CONCRETE SHALL BE 5 SACK MIN., 3000 P.S.I.

Ⓐ = RESTRAINED JOINT



AIR RELEASE VALVE DETAIL

N.T.S.

SL-WA-06

NOTES:
POLYETHYLENE WRAP FOR IRON PIPE

NOTE:

- POLYETHYLENE FILM SHALL BE USED AS A WRAP TO PROTECT CAST IRON AND OTHER METALS IN A CORROSIVE SOIL ENVIRONMENT.
- AN 8 MIL. POLYETHYLENE FILM WRAP SHALL BE REQUIRED AROUND ALL METAL PIPE AND APPURTENANCES (EXCEPT FIRE HYDRANTS).
- POLYETHYLENE FILM SHALL BE FURNISHED AND INSTALLED EITHER IN TUBULAR FORM PRIOR TO LOWERING THE PIPE IN TRENCH OR IN SHEET FORM.
- POLYETHYLENE TUBE ENCASUREMENT SHALL CONFORM WITH THE MINIMUM REQUIREMENTS OF "POLYETHYLENE ENCASUREMENT FOR GRAY AND DUCTILE CAST-IRON PIPING FOR WATER AND OTHER LIQUIDS", ANSI/AWWA C105, CURRENT REVISION. SOILS WITHIN A PROJECT SHALL BE TESTED IN ACCORDANCE WITH APPENDIX A OF ANSI/AWWA C105 TO ADEQUATELY DETERMINE THE REQUIREMENTS FOR ENCASUREMENT.
- ALL FITTINGS AND PIPE JOINTS WITHIN 10' OF A FITTING SHALL HAVE RESTRAINT JOINTS

SIZE	90° BEND		45° BEND		22 1/2° BEND		TEES		PLUGS	
	A	B	A	B	A	B	A	B	A	B
2 1/2"	12"	7"	6"	7"	6"	6"	7"	8"	8"	14"
6"	16"	10"	9"	10"	6"	12"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"
20"	50"	40"	30"	40"	18"	30"	30"	40"	30"	*78"
24"	50"	40"	30"	40"	18"	30"	30"	40"	30"	*78"
30"	60"	48"	36"	48"	20"	36"	36"	48"	36"	*96"

BENDS, TEES & PLUGS
FOR PIPE OF VARIOUS SIZES

SL-WA-08

No.	DATE	REVISION

DESIGN ENGINEER: _____ DATE: _____

SEAL: _____



CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

WATER LINE
CONSTRUCTION DETAILS

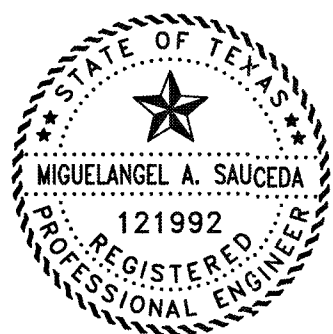
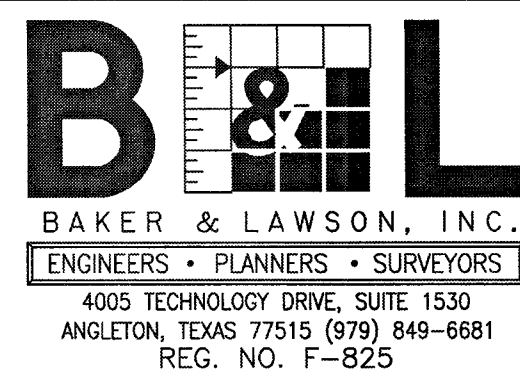
JOB No.:
DATE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
SCALE:

SL-15
SHEET OF

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED MS
DRAWN BT
CHECKED
DATE



The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

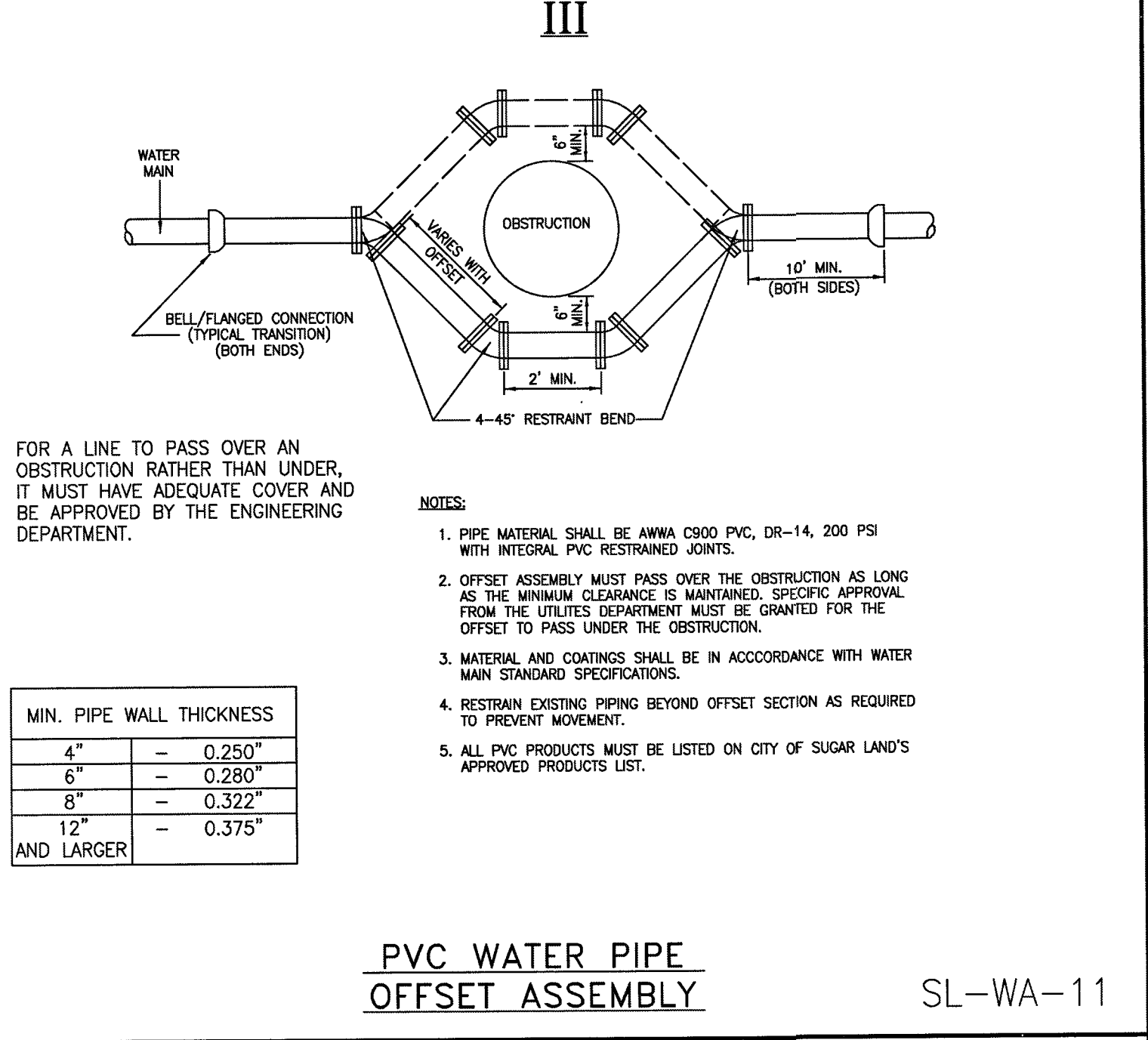
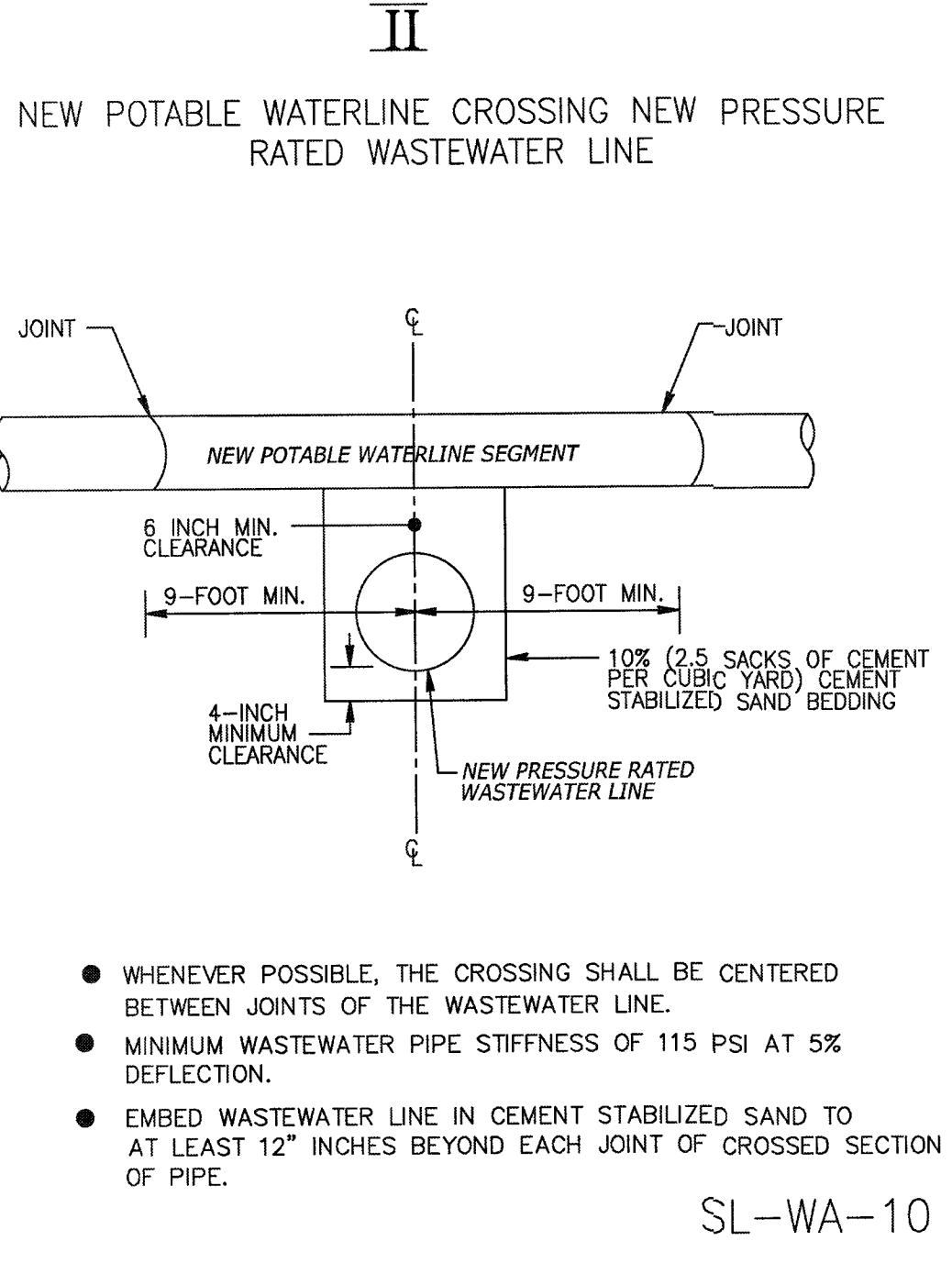
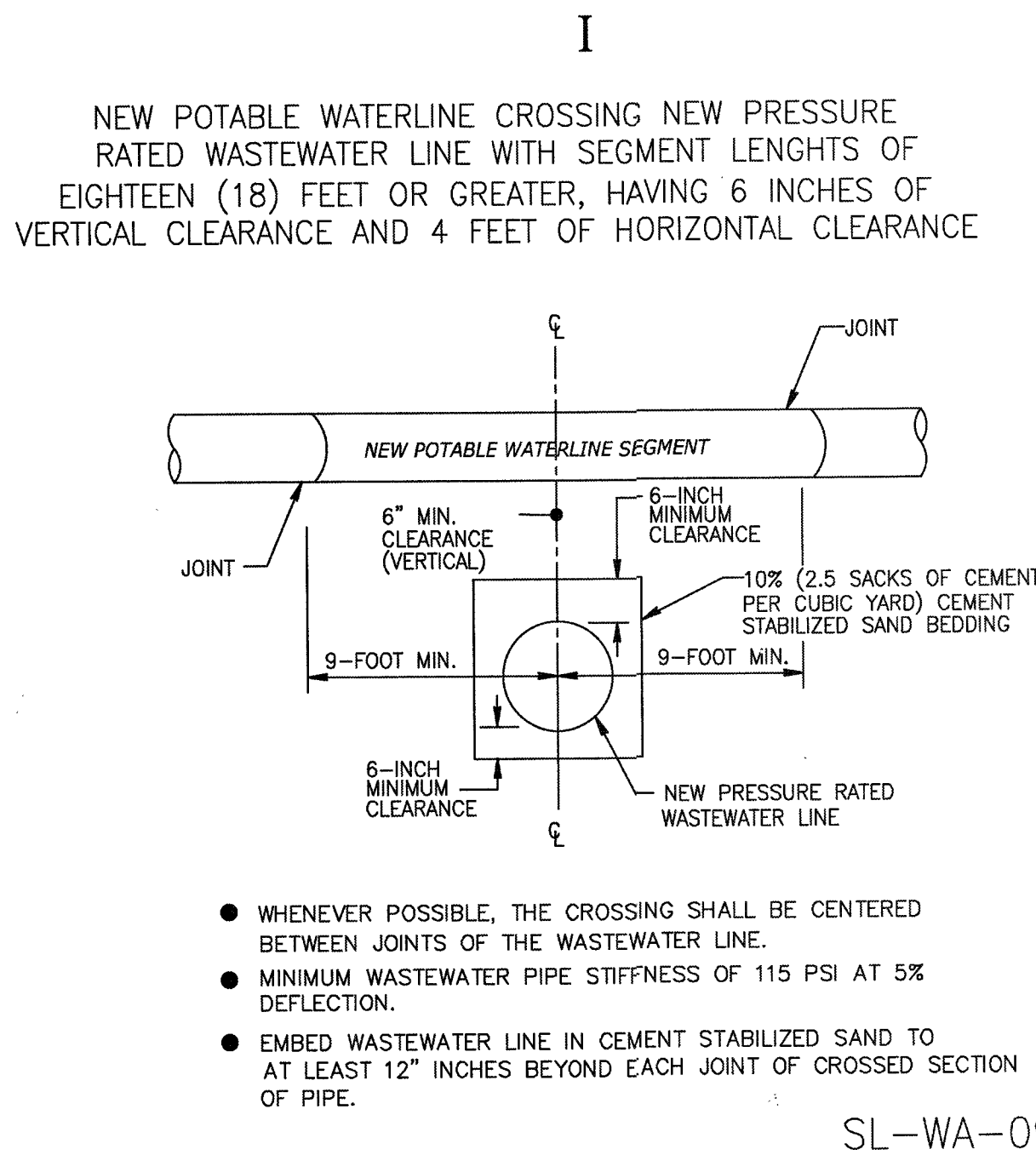
OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN:
PROFILE:
HORIZONTAL:
VERTICAL:

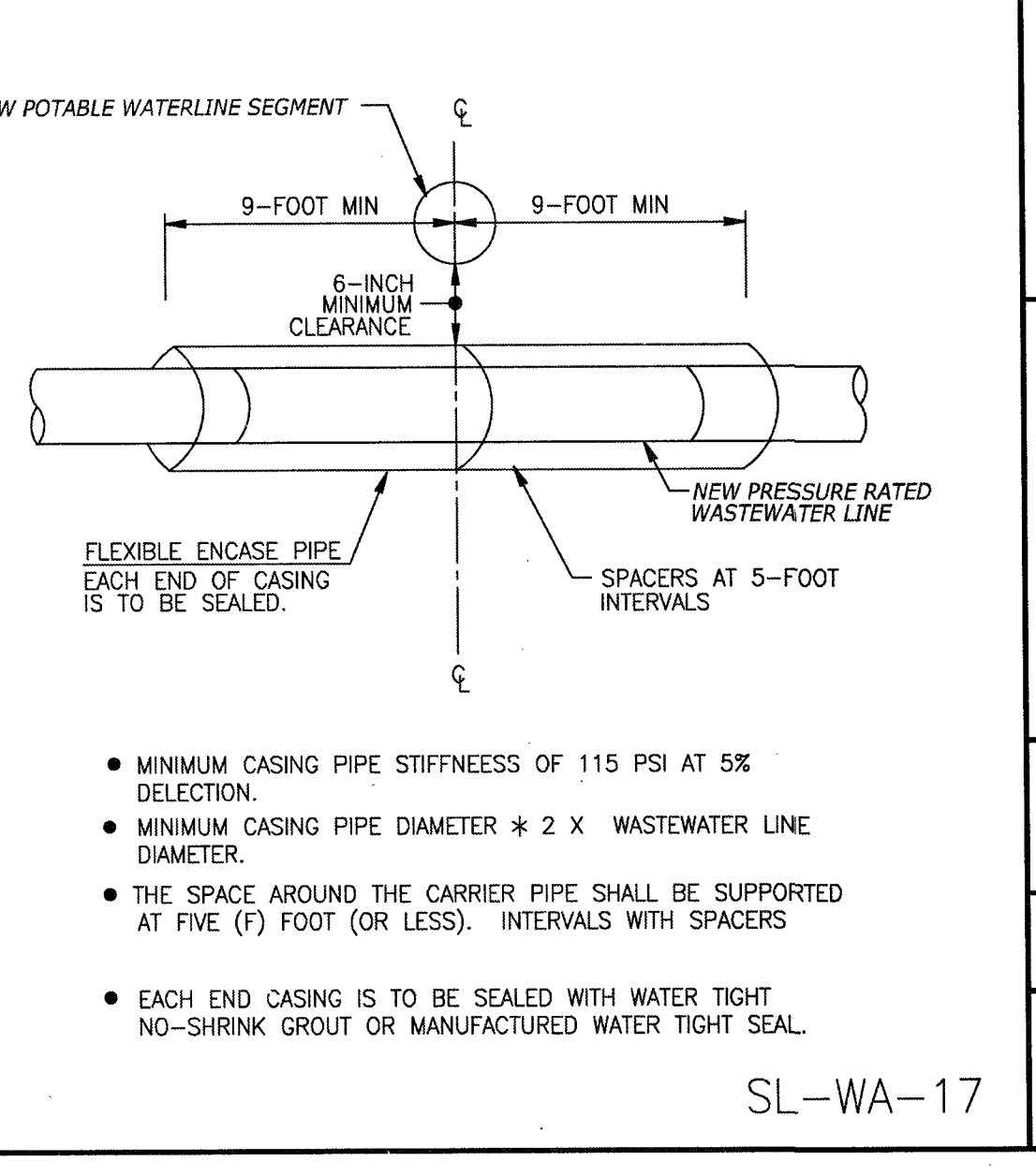
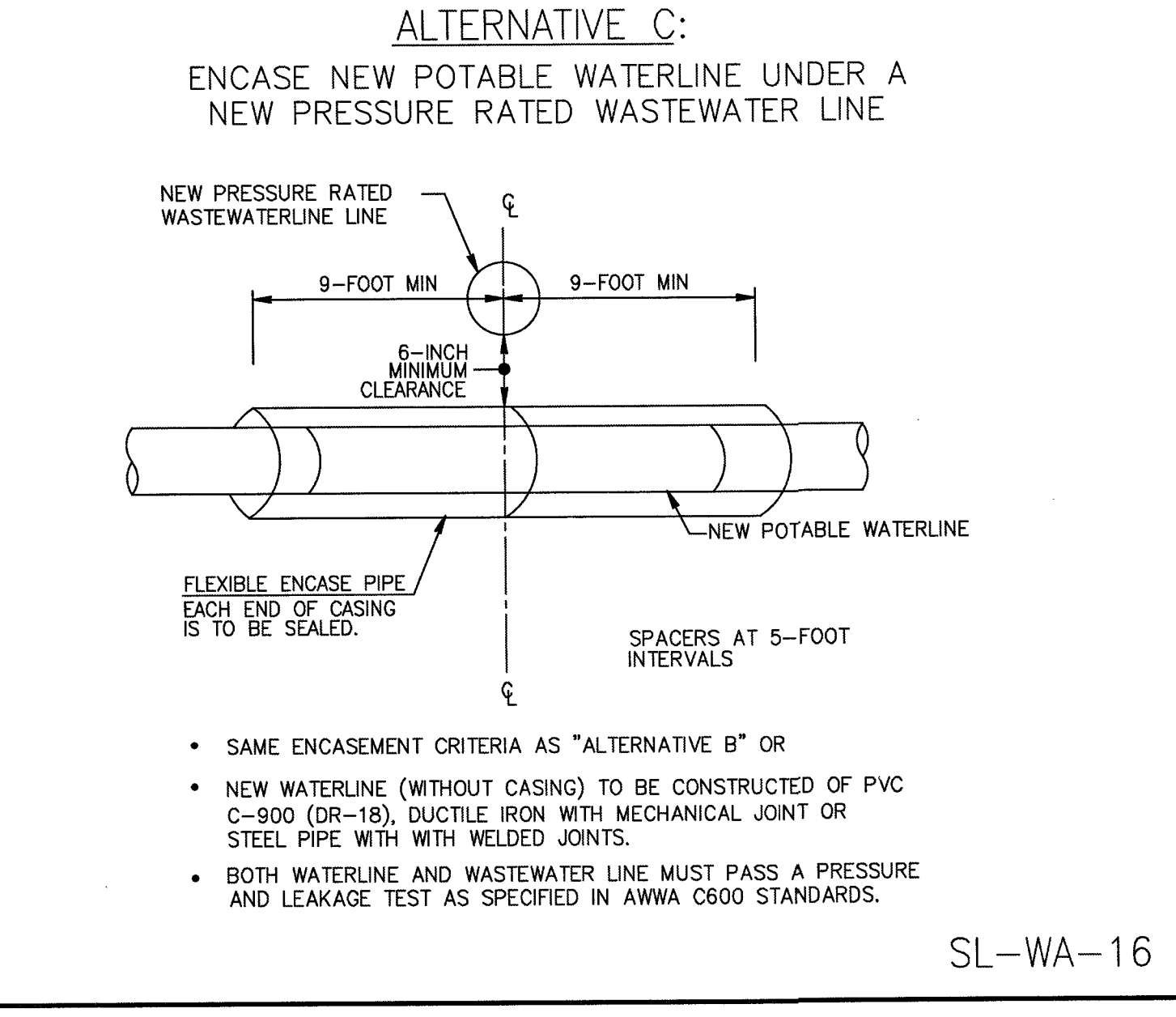
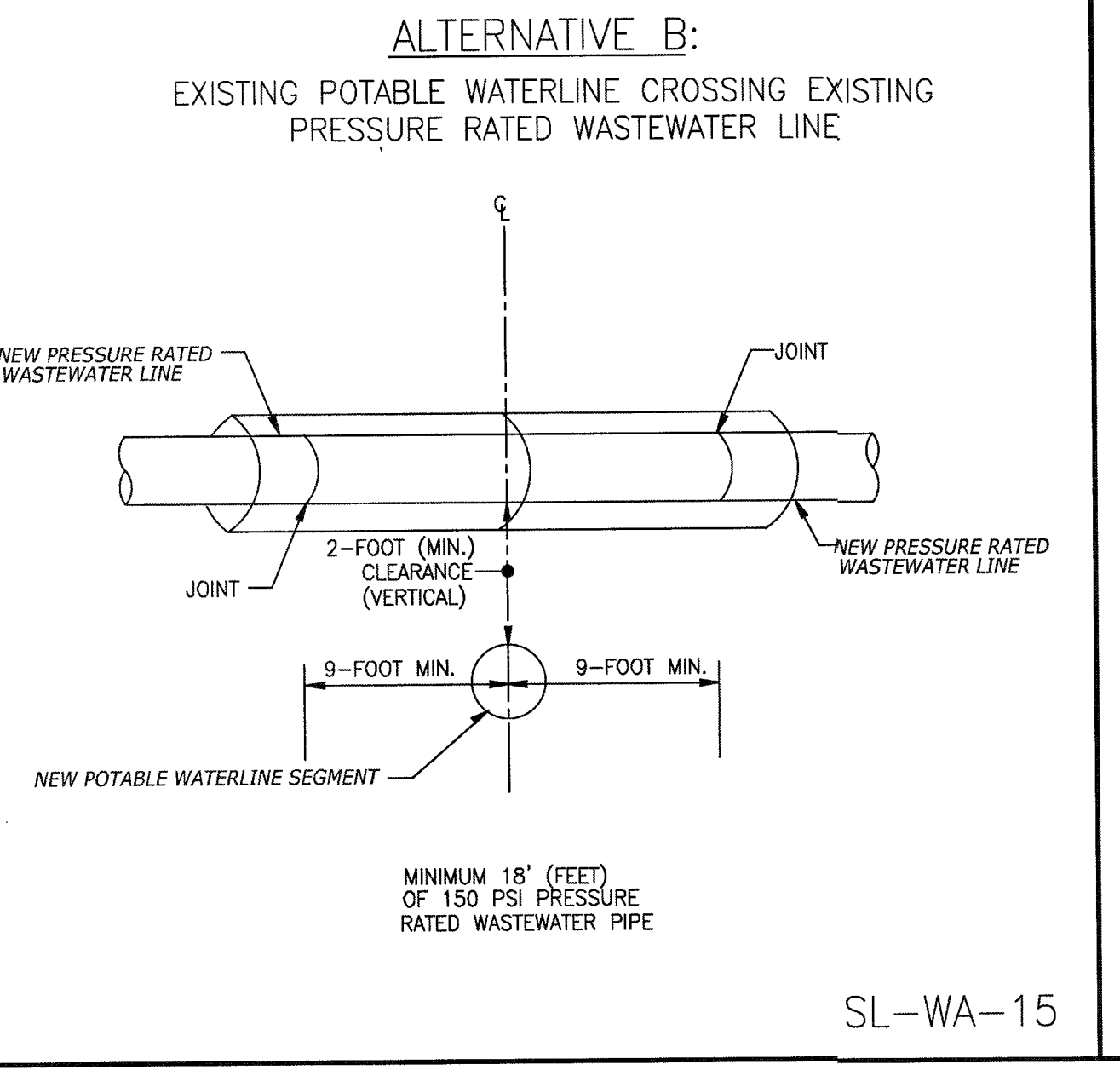
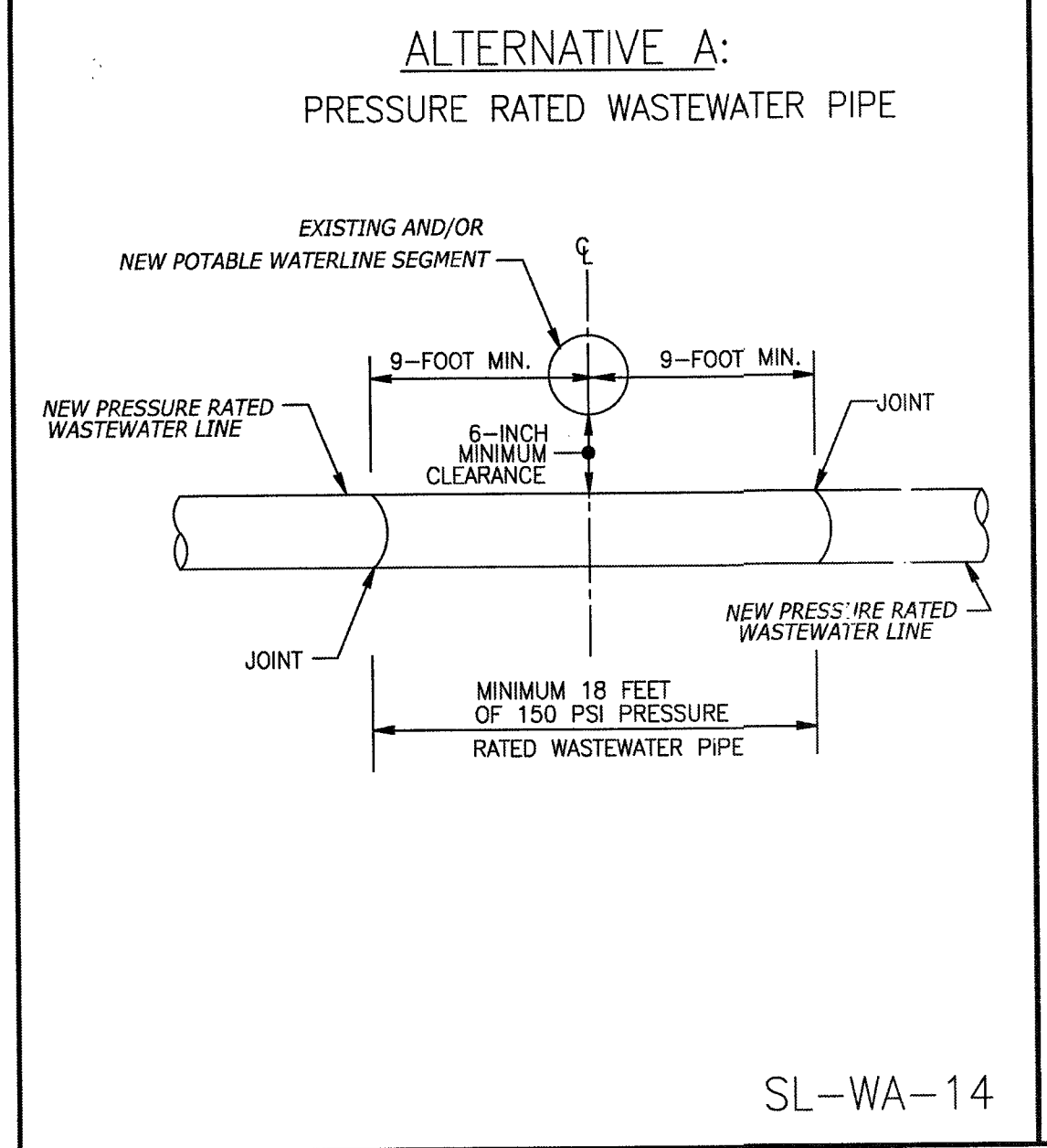
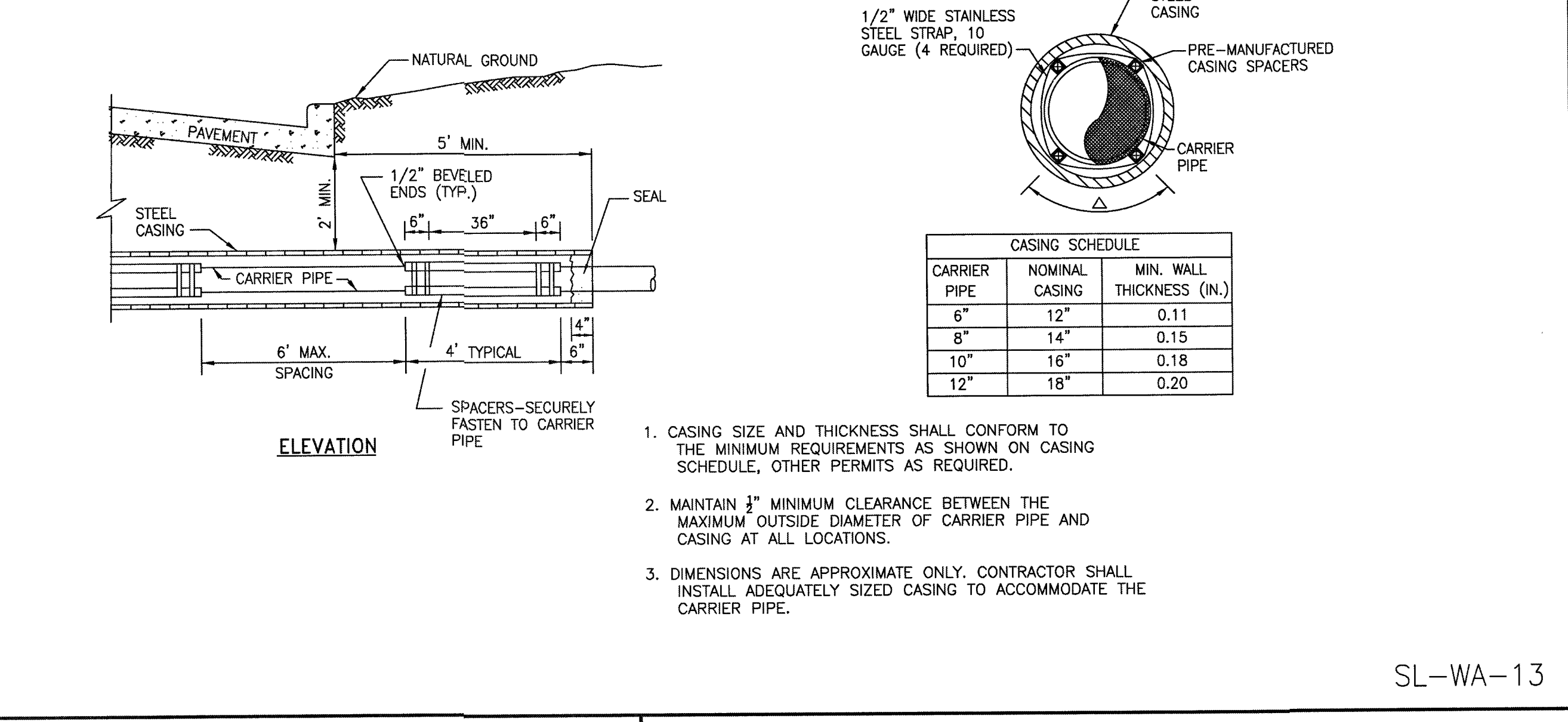
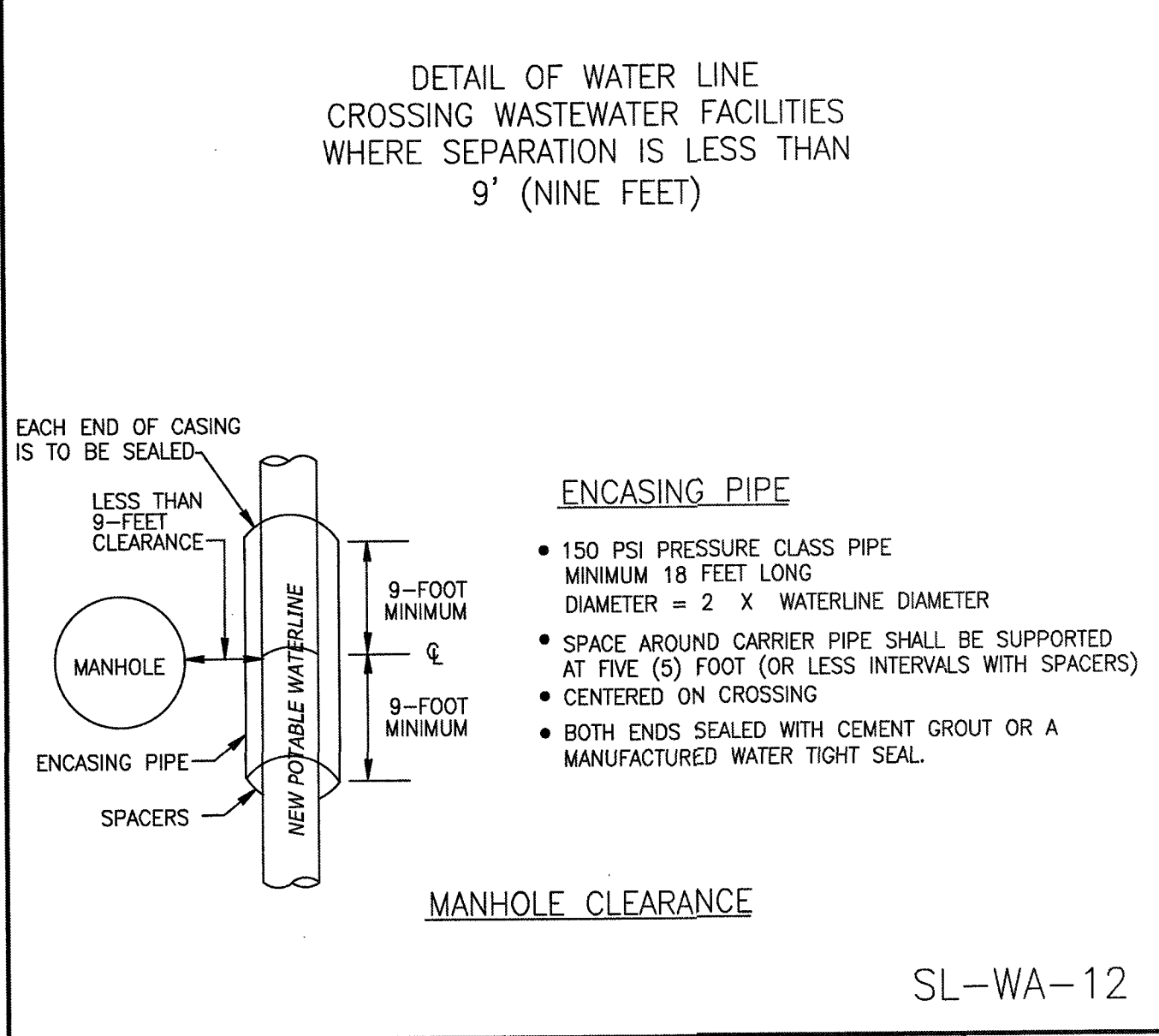
GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

WATER LINE
CONSTRUCTION DETAILS
SL-15

PROJECT NO. 13743



- GENERAL NOTES:
- CONTRACTOR SHALL CONTACT CITY OF SUGAR LAND ENGINEERING DEPARTMENT AT (281) 275-2780 IF WET SAND OR OTHER UNSTABLE SOIL CONDITIONS, HIGH WATER TABLE AND/OR UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED.
 - SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF SUGAR LAND DESIGN STANDARDS SHALL GOVERN.
 - ALL NEW POTABLE WATER LINES AND SANITARY SEWER FORCE MAINS SHALL BE BEDDED IN COMPACTED BANK SAND A MINIMUM OF 6 INCHES BELOW, ABOVE AND TO EITHER SIDE OF SUCH PIPING.
 - ALL NEW SANITARY SEWER GRAVITY DRAIN LINES SHALL BE BEDDED IN CEMENT STABILIZED SAND CONFORMING TO THE REQUIREMENTS FOR EITHER CLASS "A" STANDARD BEDDING OR CLASS "A-A" BEDDING AS APPLICABLE. USE OF MODIFIED "A" OR MODIFIED "A-A" BEDDING FOR SANITARY SEWER INSTALLATIONS WHERE WET SAND CONDITIONS ARE ENCOUNTERED AND SEPARATION DISTANCE TO POTABLE WATER LINES IS LESS THAN 9 FEET REQUIRES APPROVAL BY CITY ENGINEER.
 - CEMENT STABILIZED BEDDING SHALL BE A MINIMUM 1.5 SACK PER CUBIC YARD C.S.S., INSTALLED IN MAXIMUM LIFTS OF 8 INCHES AND MECHANICALLY TAMPED TO 95% PROCTOR.
 - WHERE REQUIRED, SLEEVING (ENCASEMENT) OF POTABLE WATER PIPING AND/OR SANITARY SEWER GRAVITY DRAIN LINES AND FORCE MAINS SHALL BE PROVIDED. SUCH SLEEVING (ENCASEMENT) SHALL BE CONSTRUCTED OF APPROVED PIPING MATERIALS HAVING A MINIMUM PRESSURE RATING OF 150 PSI AND ANNULAR SPACES AT EACH END SHALL BE SEALED WITH A MATERIAL APPROVED FOR SUCH USE.
 - ALL NEW POTABLE WATER LINES SHALL BE SLEEVED (ENCASED) WHERE A MINIMUM OF 9 FEET SEPARATION DISTANCE TO EXISTING OR PROPOSED SANITARY SEWER MANHOLE, LIFT STATION OR WASTEWATER TREATMENT PLANT CANNOT BE MAINTAINED. SLEEVING SHALL BE A MINIMUM OF 18 FEET IN LENGTH AND CENTERED ON THE POINT OF CLOSEST PROXIMITY.
 - ALL NEW POTABLE WATER LINES SHALL BE SLEEVED (ENCASED) WHERE LESS THAN 2 FEET VERTICAL OR 4 FEET HORIZONTAL CLEARANCE TO EXISTING OR PROPOSED SANITARY SEWER GRAVITY LINES OR FORCE MAINS CANNOT BE MAINTAINED. SLEEVING SHALL BE A MINIMUM OF 18 FEET IN LENGTH AND CENTERED ON THE POINT OF CROSSING. WHERE PIPING IS LAID PARALLEL AND MINIMUM SEPARATION DISTANCES CANNOT BE MAINTAINED, SLEEVING SHALL EXTEND AT LEAST 9 FEET PAST THE POINT WHERE MINIMUM SEPARATION DISTANCES ARE ACHIEVED.
 - ALL NEW POTABLE WATER LINES SHALL BE CONSTRUCTED ABOVE EXISTING OR PROPOSED SANITARY SEWER GRAVITY LINES OR FORCE MAINS WHERE POSSIBLE. WHERE INSTALLATION BENEATH SANITARY SEWER GRAVITY LINES OR FORCE MAINS IS UNAVOIDABLE AT POINTS OF CROSSING, SLEEVING (ENCASEMENT) IS REQUIRED FOR ALL NEW POTABLE WATER LINES CONSTRUCTED OF PVC PIPING MATERIALS, REGARDLESS OF SEPARATION DISTANCE. SLEEVING SHALL BE A MINIMUM OF 18 FEET IN LENGTH AND CENTERED ON THE POINT OF CROSSING.
 - ALL NEW SANITARY SEWER GRAVITY LINES AND/OR FORCE MAINS CONSTRUCTED OF PVC PIPING MATERIALS SHALL BE SLEEVED (ENCASED) WHERE LESS THAN 2 FEET VERTICAL OR 4 FEET HORIZONTAL CLEARANCE TO EXISTING POTABLE WATER PIPING CANNOT BE MAINTAINED. SLEEVING SHALL BE A MINIMUM OF 18 FEET IN LENGTH AND CENTERED ON THE POINT OF CLOSEST PROXIMITY.
 - ALL NEW SANITARY SEWER GRAVITY LINES AND/OR FORCE MAINS SHALL BE CONSTRUCTED BELOW EXISTING POTABLE WATER LINES WHERE POSSIBLE. WHERE INSTALLATION ABOVE POTABLE WATER LINES IS UNAVOIDABLE, SLEEVING (ENCASEMENT) IS REQUIRED FOR ALL SUCH SANITARY SEWER LINES CONSTRUCTED OF PVC PIPING MATERIALS, REGARDLESS OF SEPARATION DISTANCE. SLEEVING SHALL BE A MINIMUM OF 18 FEET IN LENGTH AND CENTERED ON THE POINT OF CROSSING.
 - WHERE NEW SANITARY SEWER SIZING (24 INCH AND GREATER) PRECLUDES THE USE OF PVC PIPING MATERIALS AND SLEEVING (ENCASEMENT) OF THE SANITARY SEWER WOULD OTHERWISE BE REQUIRED BUT IS IMPRACTICAL, THE EXISTING POTABLE WATER PIPING SHALL EITHER BE OFFSET TO PROVIDE THE REQUIRED MINIMUM CLEARANCES OR SLEEVED (ENCASED) IN LIEU OF SLEEVING (ENCASING) THE SANITARY SEWER LINE. SLEEVING SHALL BE A MINIMUM OF 18 FEET IN LENGTH AND CENTERED ON THE POINT OF CROSSING.
 - IN NO INSTANCE SHALL A FIRE HYDRANT BE INSTALLED WITHIN 9 LINEAR FEET OF A SANITARY SEWER SYSTEM.
 - NOTE: SEPARATION DISTANCES ARE MEASURED FROM THE OUTSIDE DIAMETERS OF EACH PIPE AND FROM THE EXTERIOR SURFACES OF MANHOLES, LIFT STATIONS, WASTEWATER TREATMENT PLANTS AND ASSOCIATED APPURTENANCES.
 - REFER TO GENERAL SANITARY, WATER AND C.S.S. NOTES.
- SL-WA-18



REVISIONS

NO.	DATE	REVISION

DESIGN ENGINEER: _____ DATE: _____

CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

WATER LINE CROSSING DETAILS

JOB No.: _____
DATE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: _____

SL-16

SHEET OF

DESIGNED	MS
DRAWN	BT
CHECKED	
DATE	

NO.	DATE	DESCRIPTION	APPROVED

REVISIONS

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (879) 849-6681
REG. NO. F-325

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MIGUEL ANGEL A. SAUCEDA P.E. 121992

121992

11/22/21

OWNER:

DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

PLAN: _____

PROFILE: _____

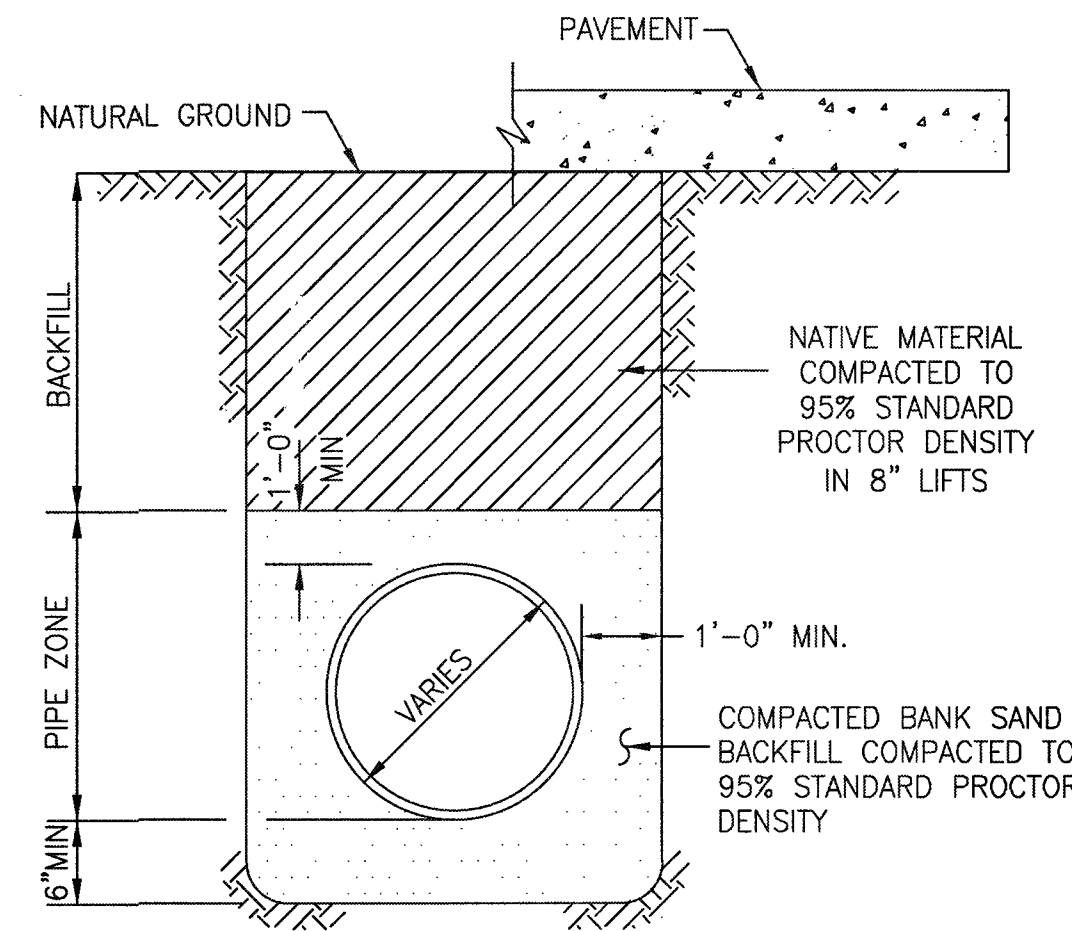
HORIZONTAL: _____

VERTICAL: _____

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

WATER LINE CROSSING DETAILS
SL-16

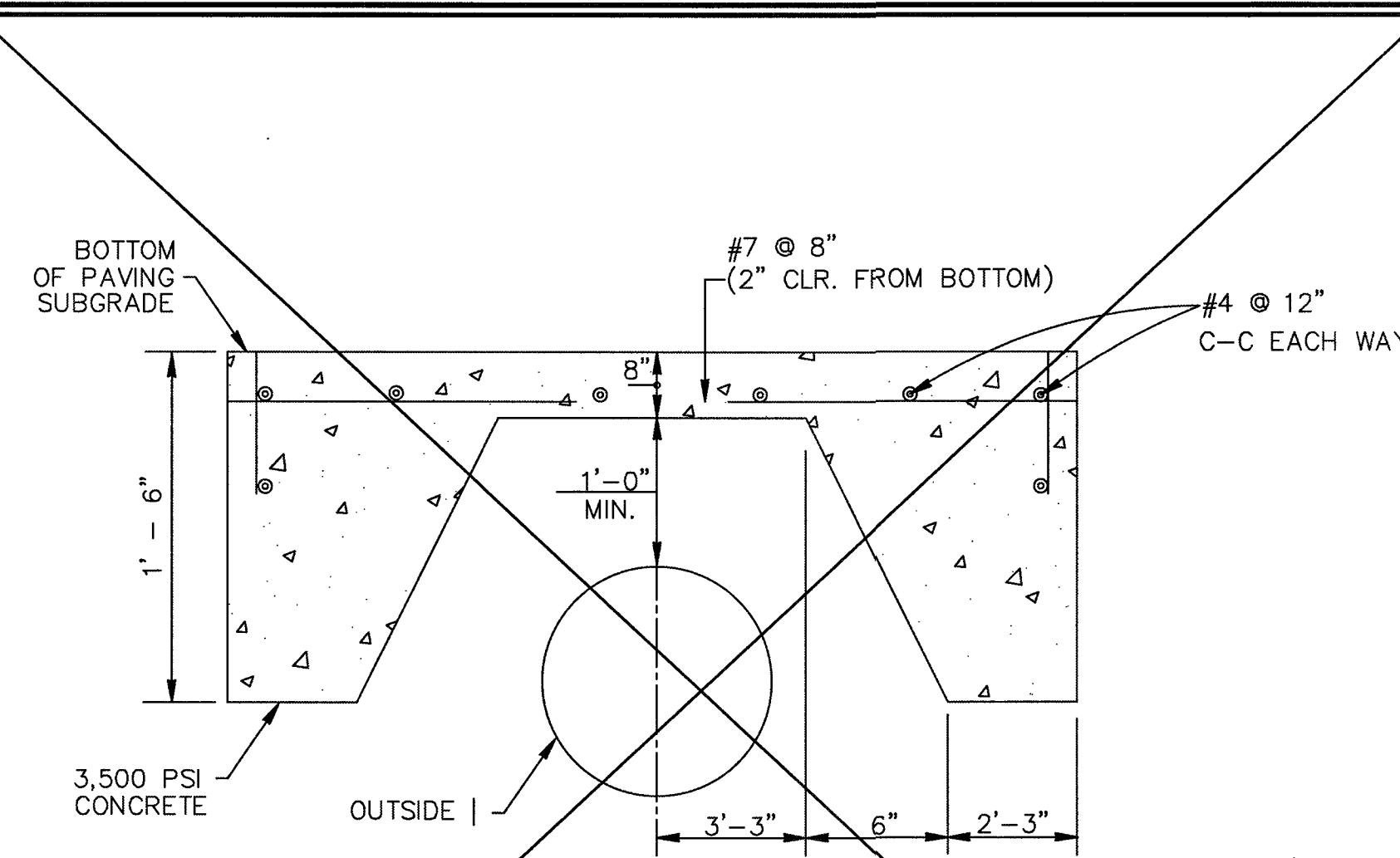
PROJECT NO. 13743



P.V.C. PIPE BEDDING & BACKFILL
N.T.S.
*SEE CONSTRUCTION NOTES

**SANITARY FORCE MAIN & WATER LINE
BEDDING AND BACKFILL**

SL-BB-01



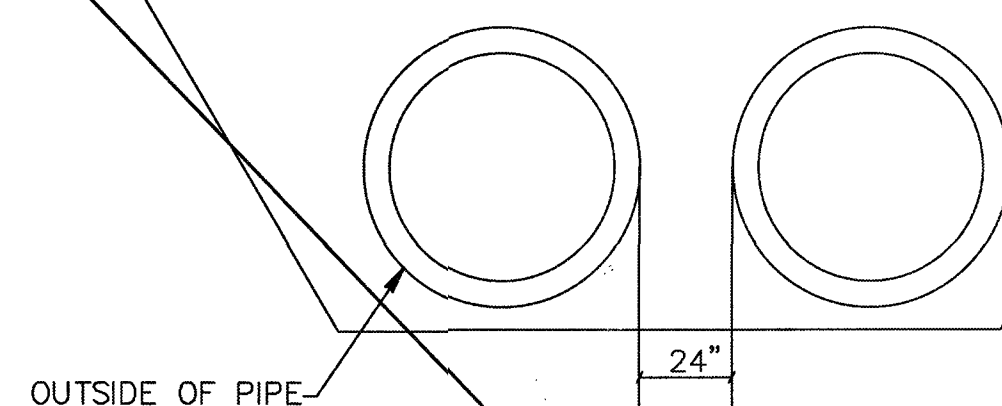
**PROTECTIVE SLAB DETAIL
ZERO LOAD TRANSFER CONCRETE SLAB**

SL-BB-04

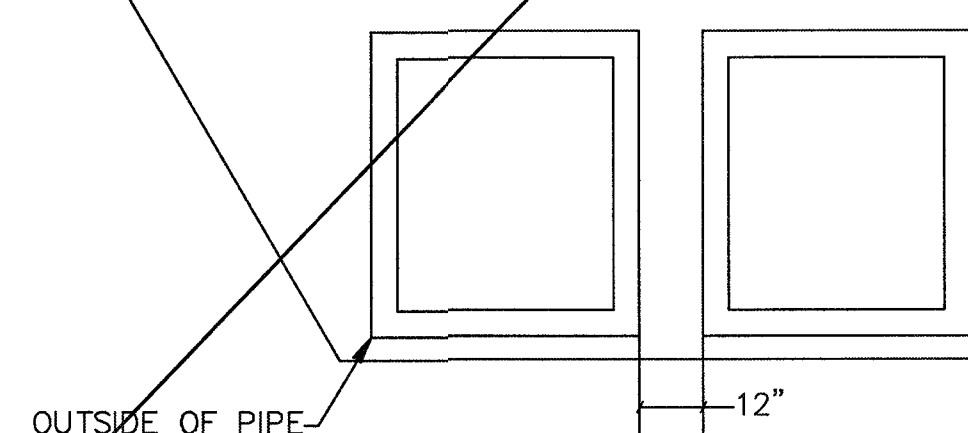
CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT SUGAR LAND ENGINEERING DEPARTMENT IMMEDIATELY IF WET SAND CONDITIONS ARE ENCOUNTERED.
2. LIMESTONE AND RECYCLED CONCRETE DIMENSIONS SHOWN ARE TYPICAL BUT MAY BE VARIED BY ORDER OF CITY ENGINEER.
3. LIMESTONE OR RECYCLED CONCRETE SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATION No. 248 FLEXIBLE BASE, TYPE A, GRADE 2 AGGREGATE.
4. NO BEDDING SHALL BE INSTALLED IN WET CONDITIONS. WHEN WELL POINTING OR IN WET SAND CONDITIONS, MAINTAIN GROUND WATER 1 (FT) BELOW BOTTOM OF TRENCH FOR A MINIMUM OF 24-HRS AFTER BEDDING AND BACKFILL IS IN PLACE.
5. ALL MATERIALS SHALL BE FROM THE APPROVED PRODUCTS LIST UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
6. SANITARY SEWER BEDDING FOR WET SAND CONDITIONS SHALL BE AS PER MODIFIED "A".
7. ALL SAND BEDDING FOR WATER LINES SHALL BE CLEAN, MECHANICALLY COMPACTED BANK SAND.
8. REFER TO: MANHOLE DETAILS, SANITARY, C.S.S., GENERAL, WATER CROSSING, WATER DISTRIBUTION DETAILS AND NOTES.
9. ALL BEDDING WILL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
10. A GEOTECHNICAL REPORT MAY BE REQUIRED TO ANALYZE THE BEARING CAPACITY OF EXISTING SOILS AND MAKE A DETERMINATION IF ADDITIONAL BEDDING AND BACKFILL IS APPROPRIATE.

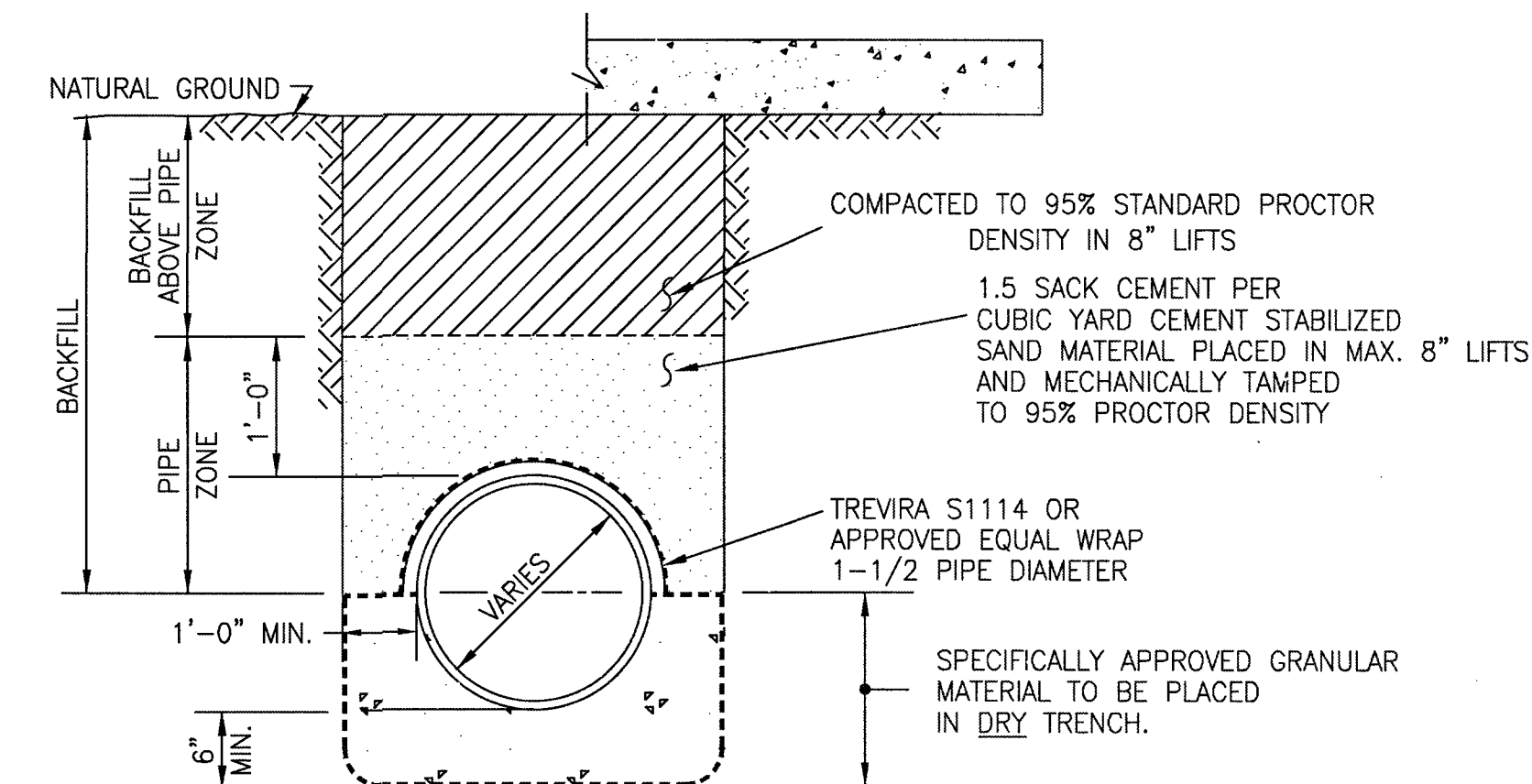
SL-BB-05



PIPE SEPARATION



RCB SEPARATION



MODIFIED "A"
N.T.S.


NOTE: C.S.S. SHALL BE INSTALLED A MIN. 1' ABOVE TOP OF PIPE.

**SANITARY SEWER
BEDDING AND BACKFILL**

SL-BB-03

REFER TO:

1. GENERAL NOTES
2. C.S.S. NOTES

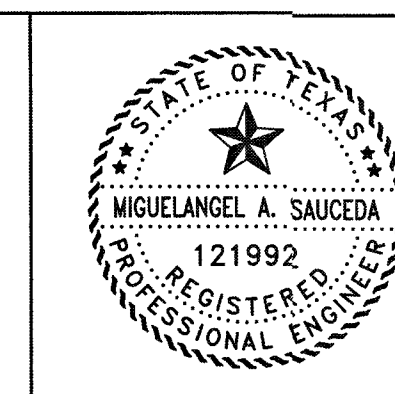
No.	DATE	REVISION
SEAL:		
DESIGN ENGINEER: _____ DATE: _____		
 CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT		
CONSTRUCTION PLANS FOR:		
WATER LINE, SANITARY SEWER FORCE MAIN BEDDING DETAILS		
JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:	SL-19 SHEET OF	

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED	MS
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DATE	

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



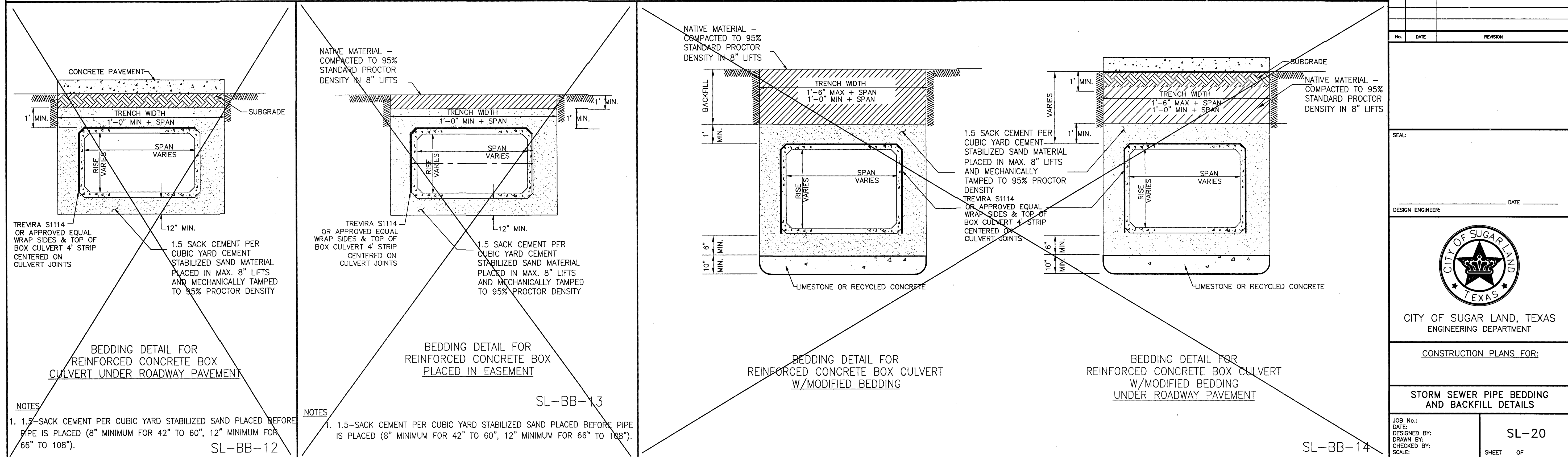
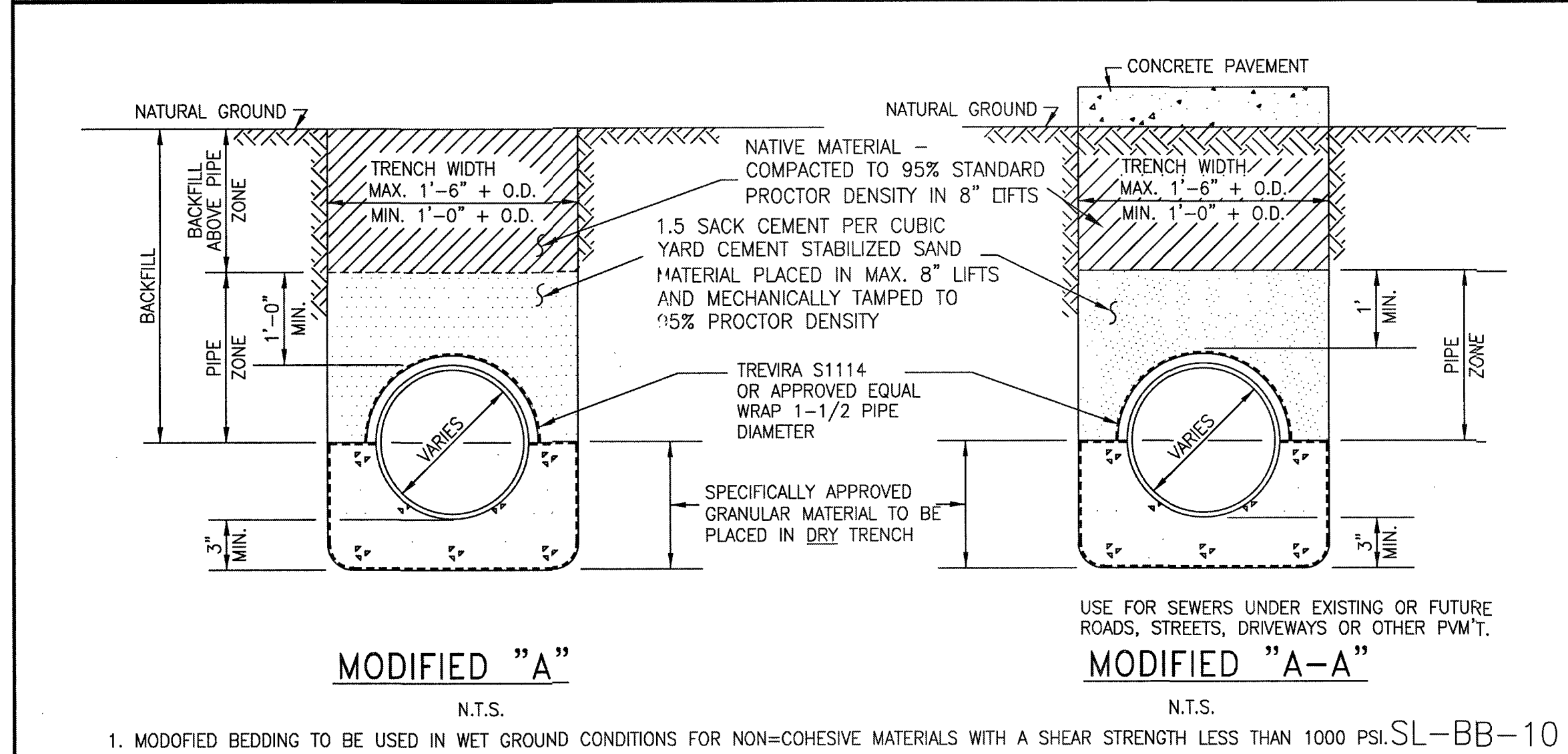
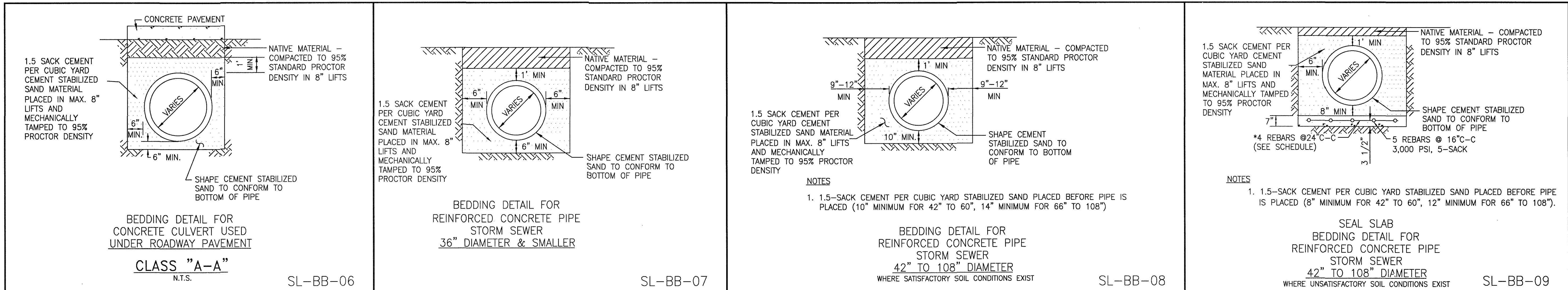
The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: _____
PROFILE: _____
HORIZONTAL: _____
VERTICAL: _____

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

**WATER LINE, SANITARY
SEWER FORCE MAIN
BEDDING DETAILS**
SL-19
PROJECT NO. 13743



DESIGNED MS	DATE	NO.	DATE	DESCRIPTION	APPROVED
DRAWN BT					
CHECKED					
DATE					

REVISIONS

1. 1.5-SACK CEMENT PER CUBIC YARD STABILIZED SAND PLACED BEFORE PIPE IS PLACED (8" MINIMUM FOR 42" TO 60", 12" MINIMUM FOR 66" TO 108").

DESIGNED BY

DATE

11/22/21

11/22/21

DAVID ROGERS

ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

PLAN:

PROFILE:

HORIZONTAL:

VERTICAL:

GIFFORD MEADOWS

A 17.37 AC, 85-LOT SUBDIVISION

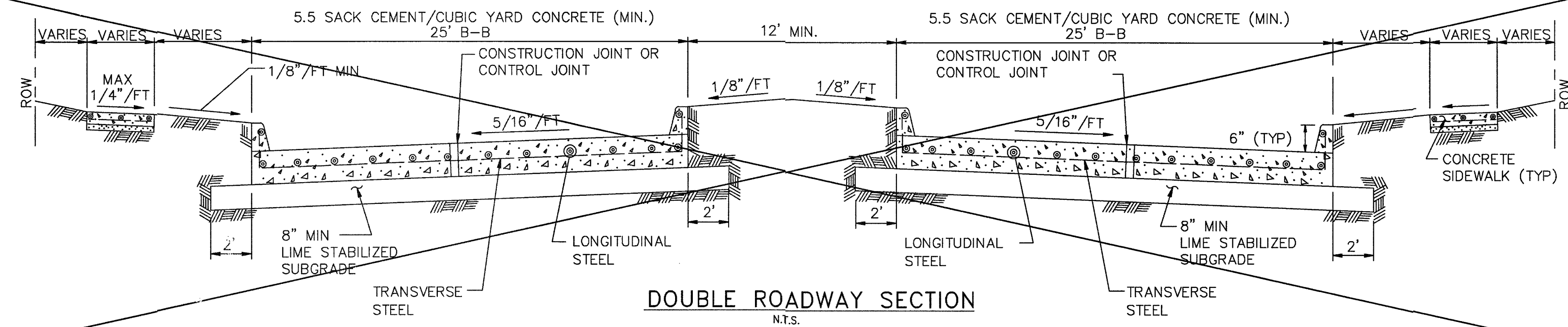
ANGLETON, TEXAS 77515

STORM SEWER PIPE BEDDING AND BACKFILL DETAILS

SL-20

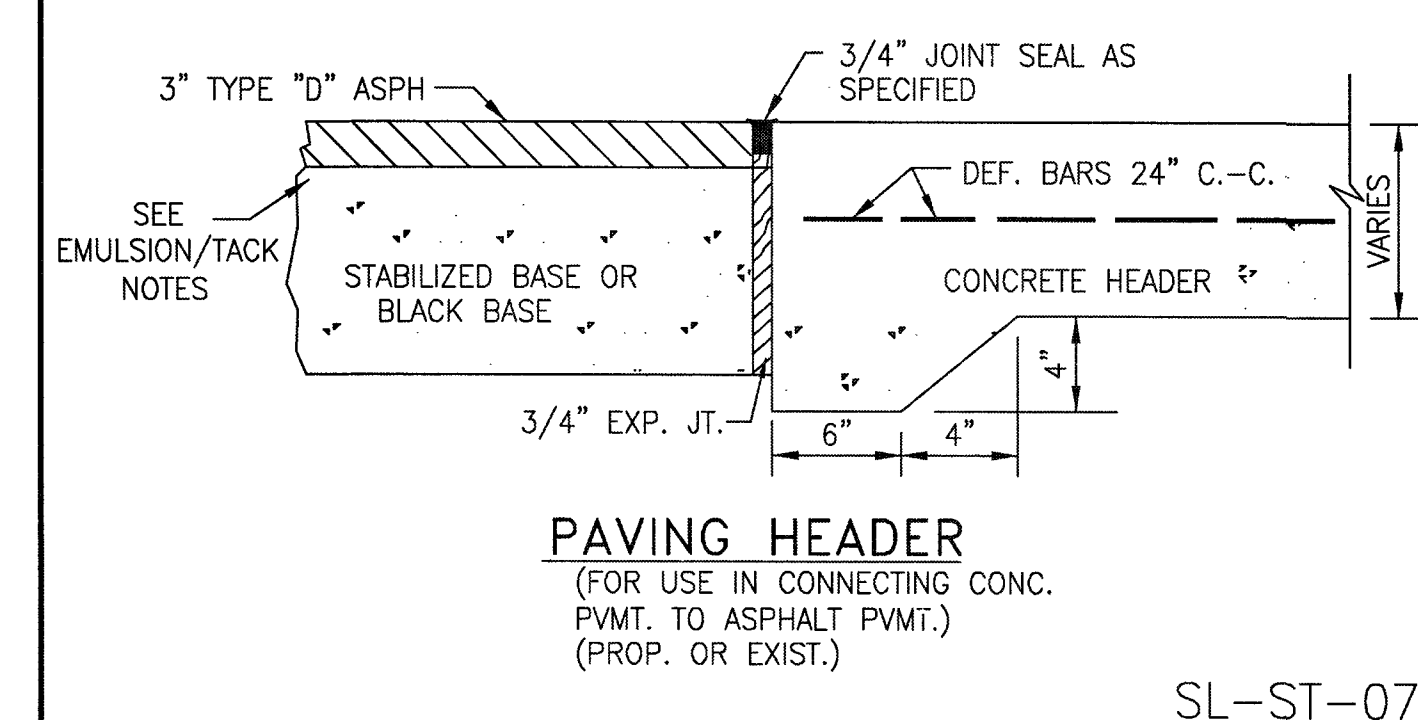
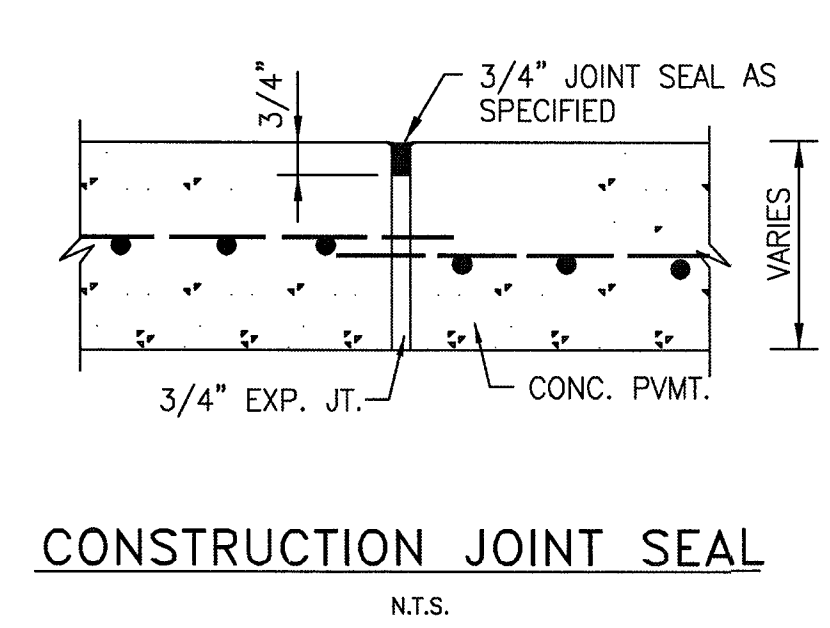
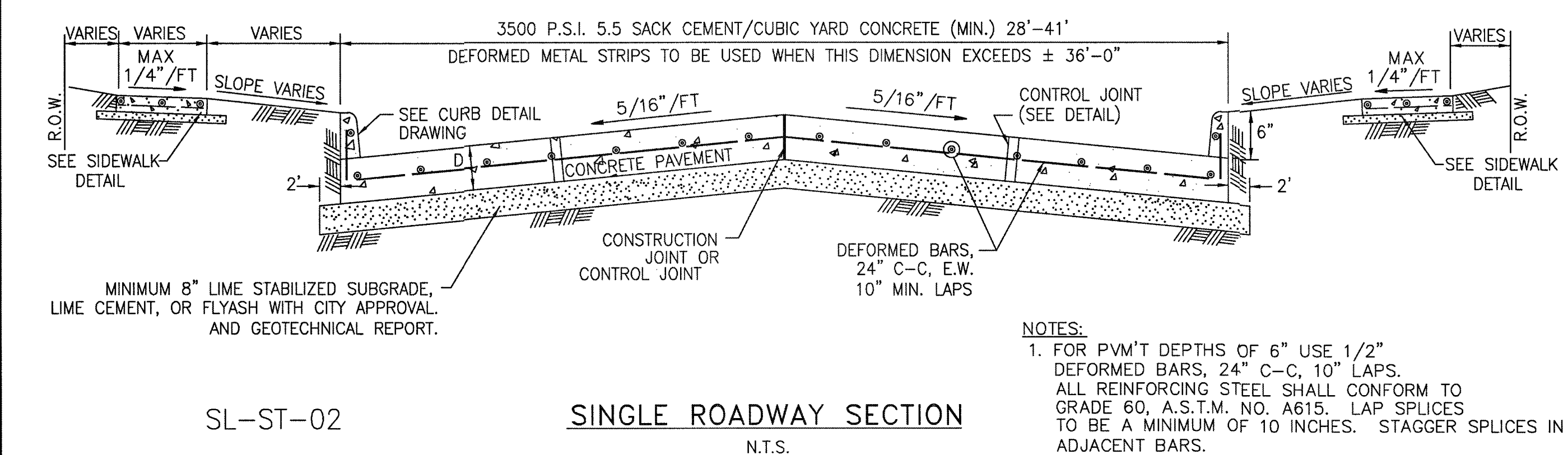
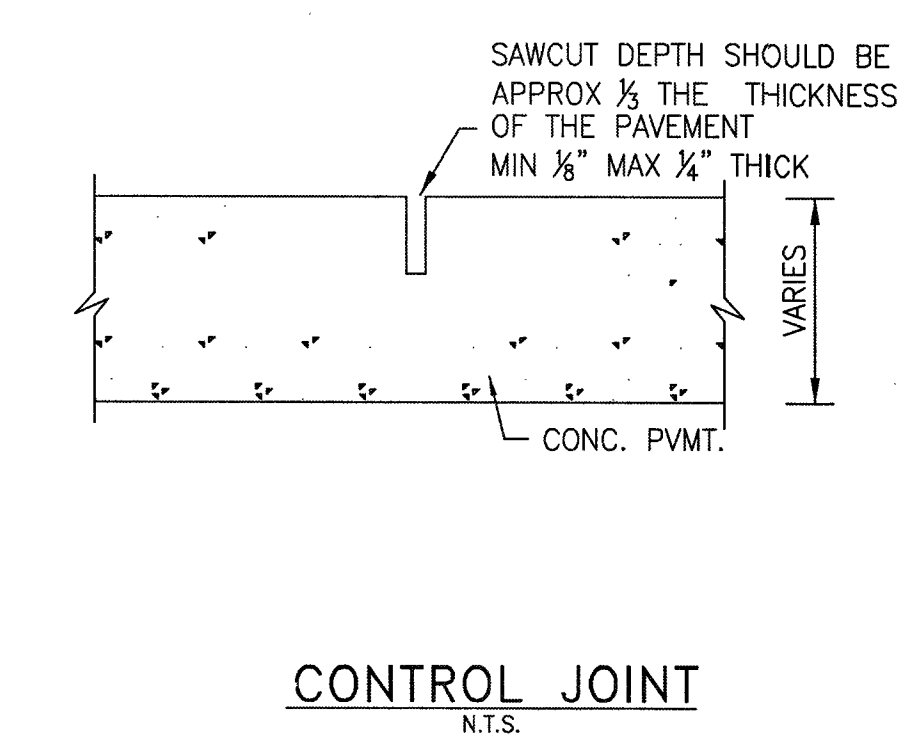
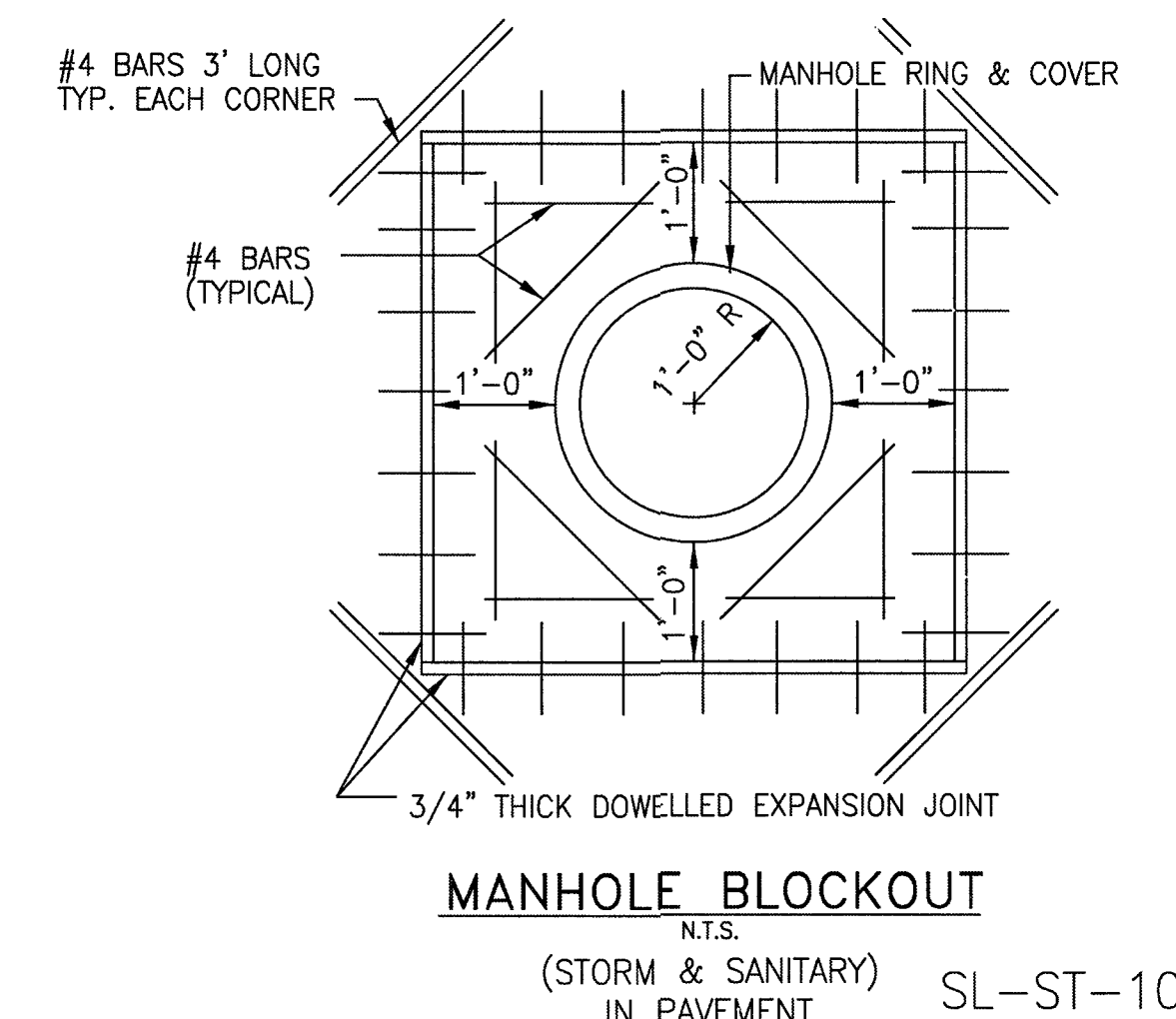
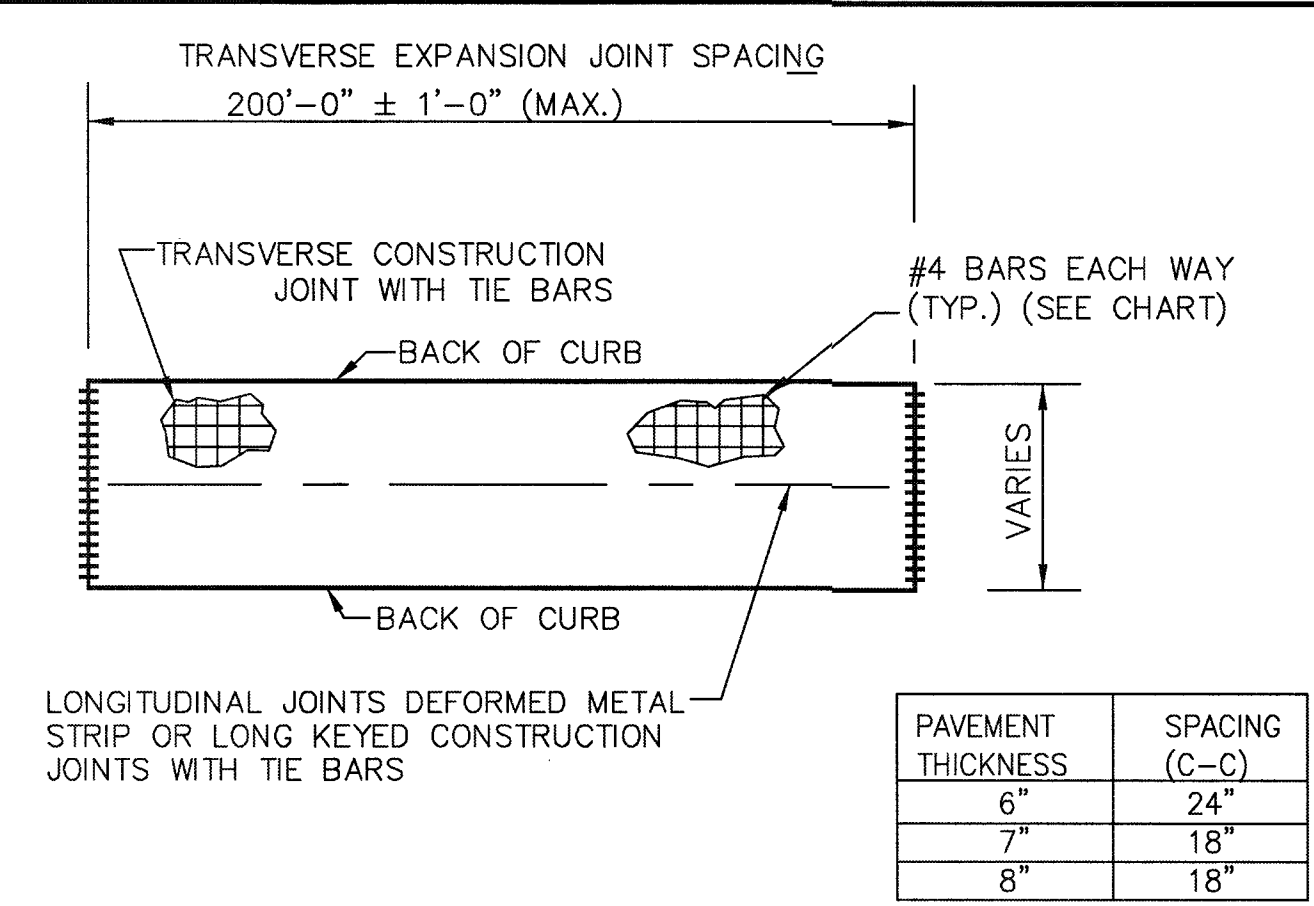
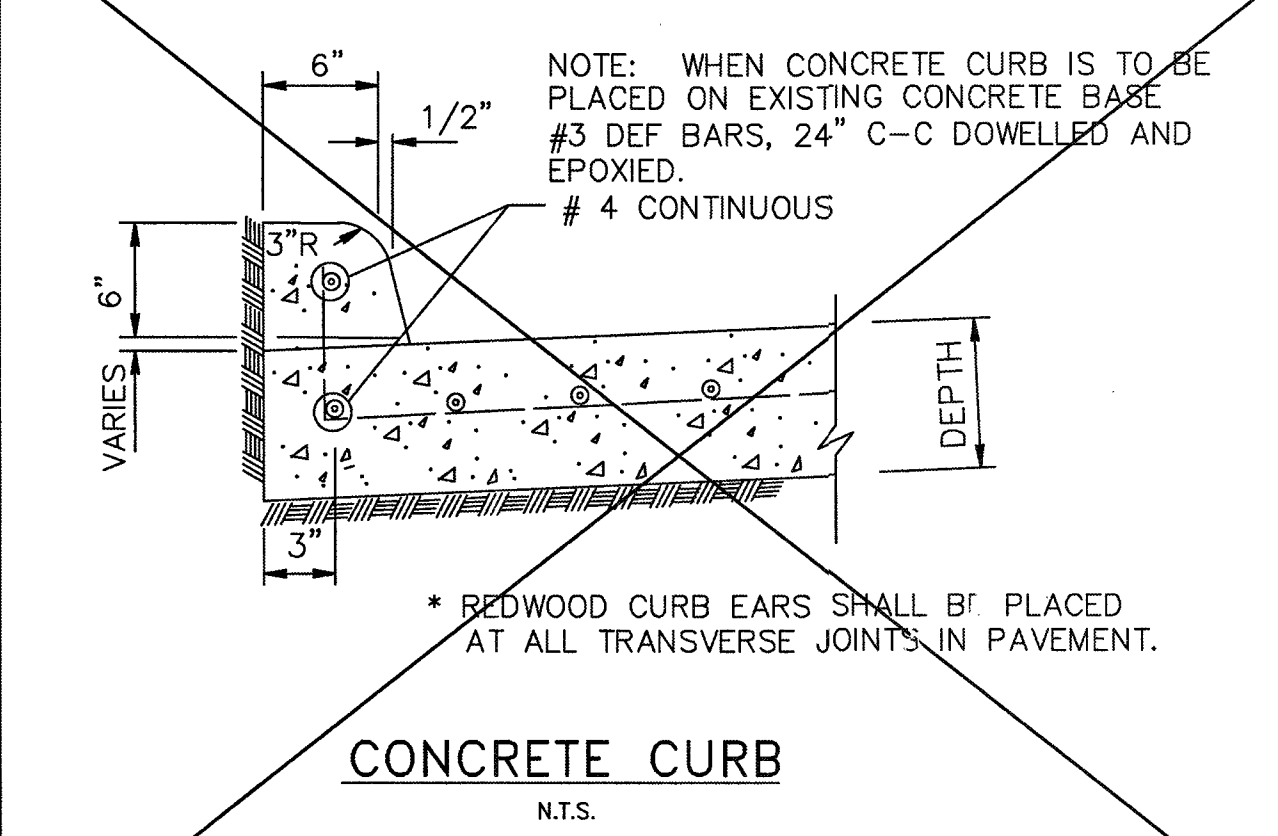
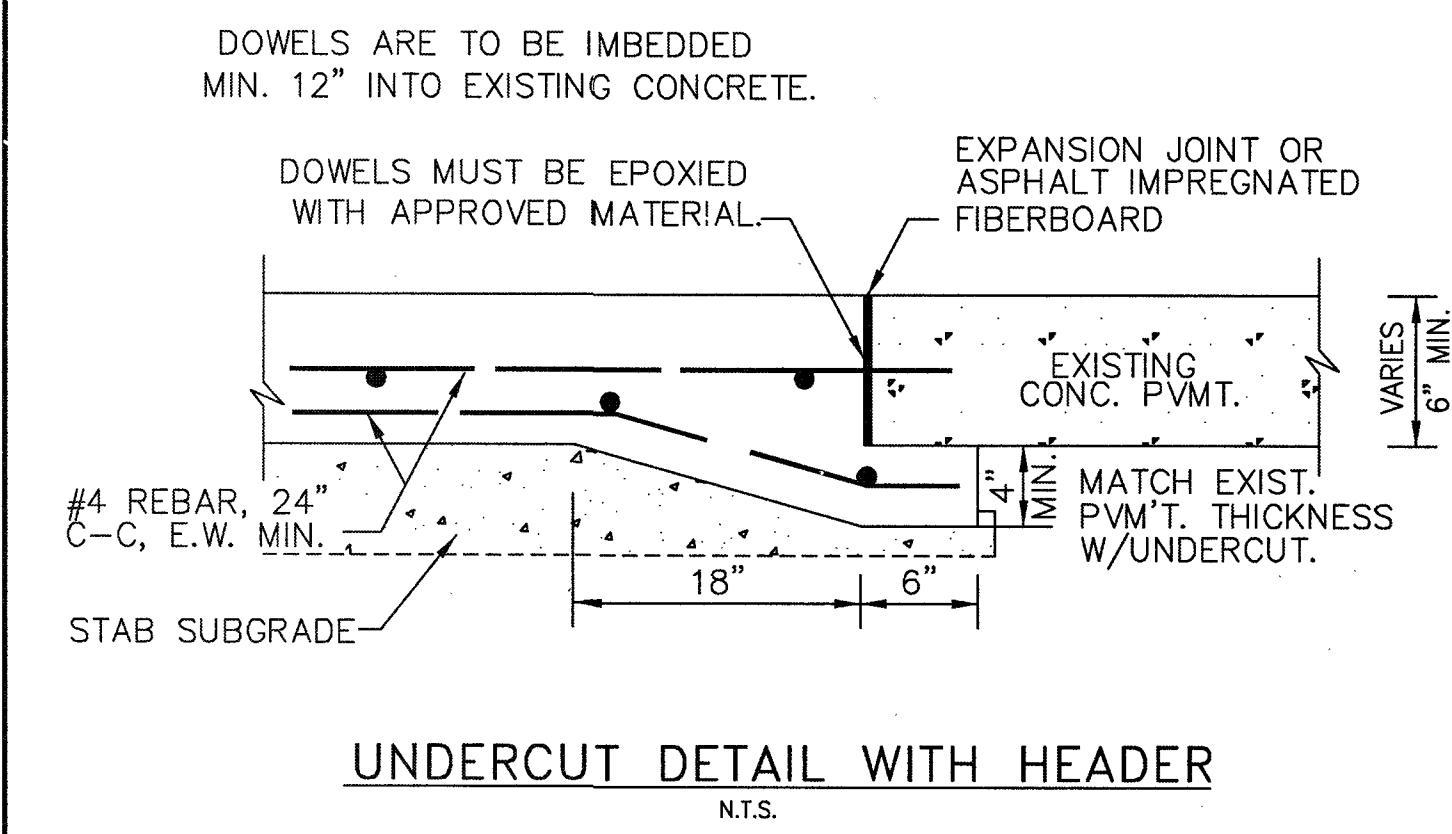
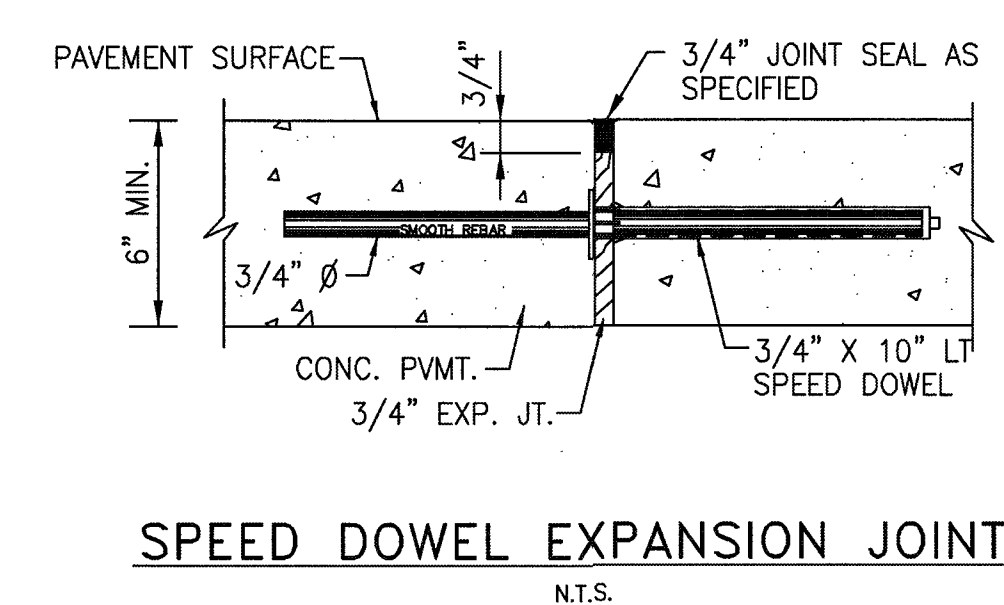
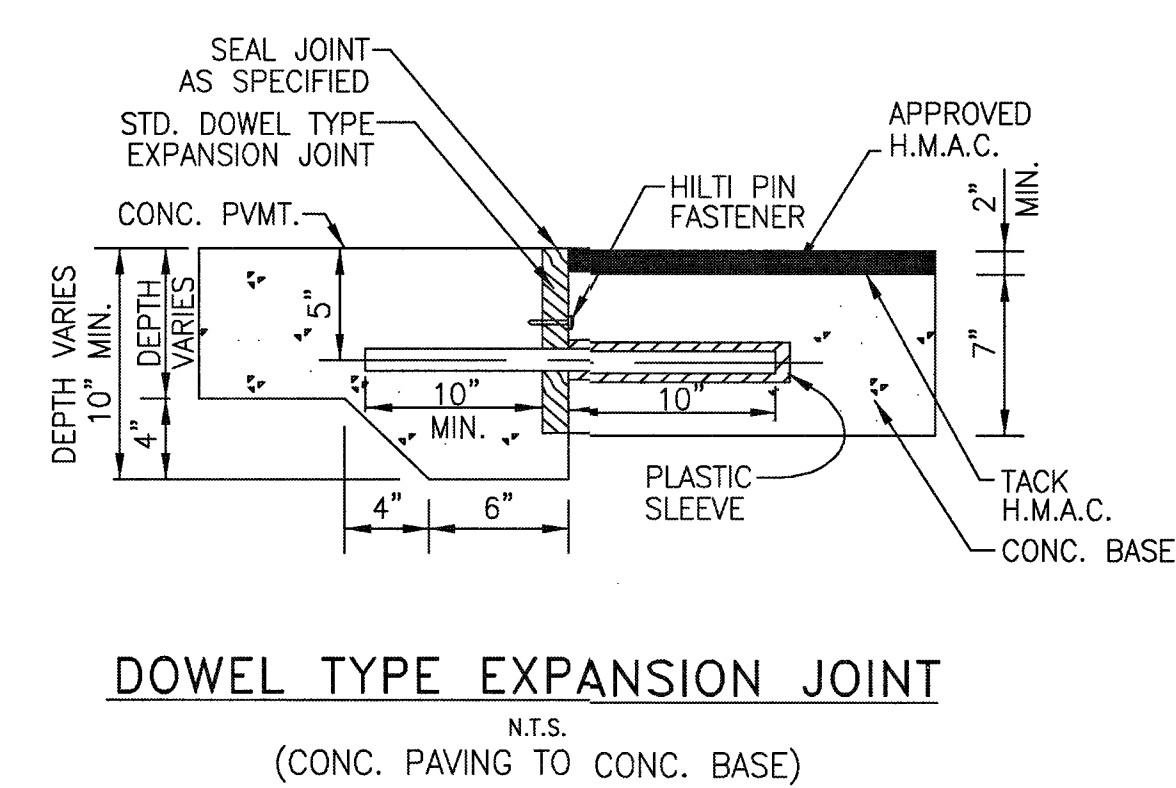
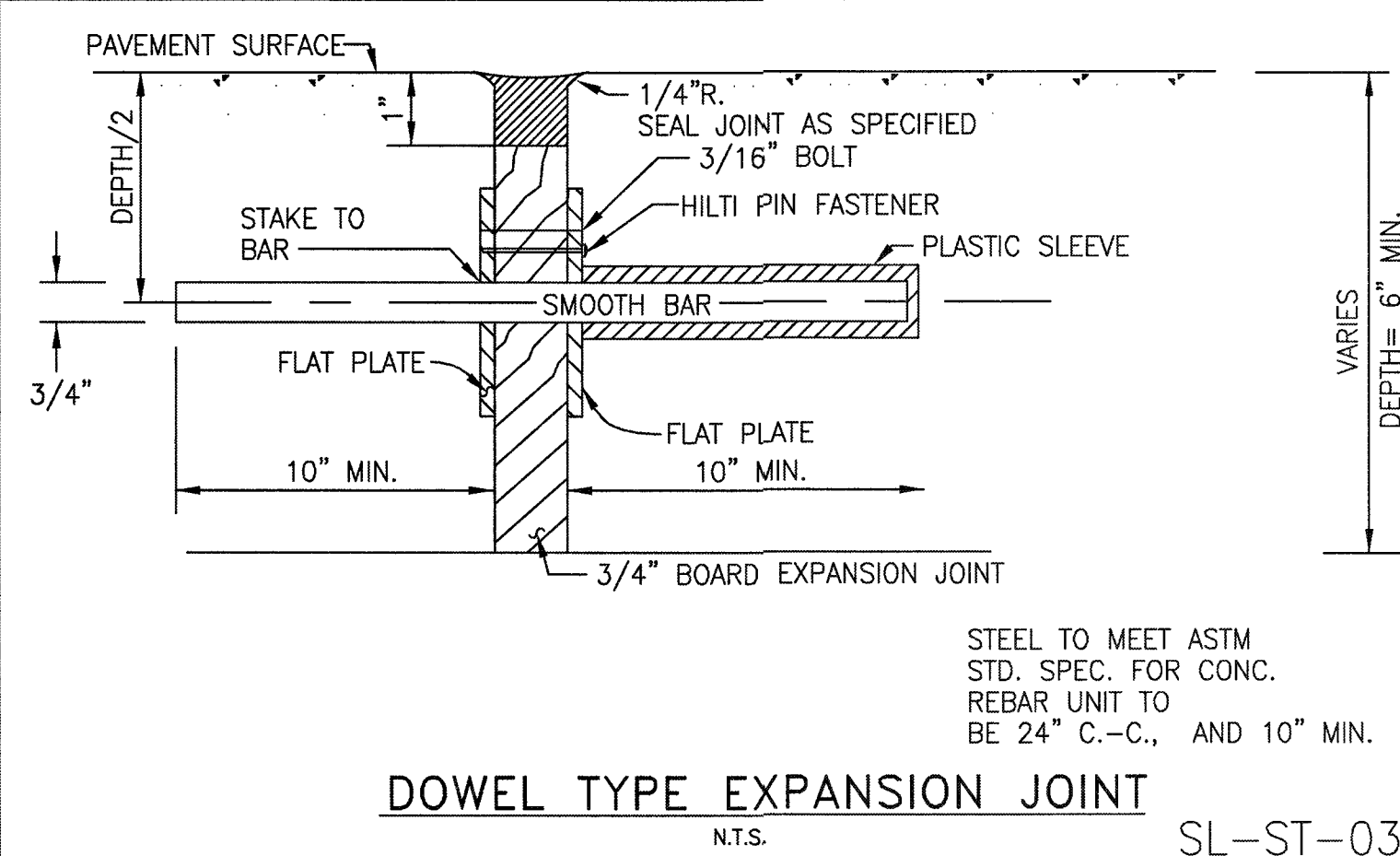
PROJECT NO. 13743

31



CONSTRUCTION NOTES:

1. 6 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 24 INCHES C-C, E.W. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR LOCAL STREETS
2. 7 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 18 INCHES C-C, IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR STREETS
3. EIGHT (8) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 18" C.C. EACH WAY IS THE MINIMUM ACCEPTABLE FOR ARTERIAL STREETS.
4. HARD AGGREGATE IS NOT ALLOWED IN STREET PAVEMENT MIX. ADMIXTURES REQUIRE CITY OF SUGAR LAND PUBLIC WORKS DEPARTMENT APPROVAL.
5. TRANSVERSE EXPANSION JOINTS SHALL BE PLACED AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY AND ALL INTERSECTION CURB RETURN POINTS. MAXIMUM SPACING SHALL BE 200' AND BE SEALED WITH SEALANT CONFORMING TO TxDOT item 360 (& ITEM 436) AND TxDOT DMS-6310, CLASS-2.
6. TRANSVERSE CONTROL JOINTS ARE REQUIRED AT MAXIMUM SPACING OF 20'-0" C-C, AND VERTICAL. CURB JOINTS TO BE SEALED WITH SPECIAL JOINT SEALANT ASTM-D-1190-74 OR MSHTO-M173-60 FOR PAVEMENT 8" THICK AND GREATER. (ELASTONIC TYPE HOT POURED)
7. PAVEMENT FINISH SHALL BE BAKER BROOM FINISH. CURING COMPOUND REQUIRED ON ALL CONCRETE.
8. STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND SHALL BE IN TOTAL COMPLIANCE WITH THE STORM QUALITY MANUAL OF THE CITY OF SUGAR LAND. CITY ENGINEER'S APPROVAL.
9. REFER TO GENERAL, C.S.S., AND PAVEMENT NOTES.



No.	DATE	REVISION
SEAL:		
DESIGN ENGINEER: _____ DATE _____		



CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT	
<u>CONSTRUCTION PLANS FOR:</u>	
CONCRETE PAVEMENT CONSTRUCTION DETAILS	
JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:	SL-21 SHEET OF

				DESIGNED	MS
				DRAWN	BT
				CHECKED	
NO.	DATE	DESCRIPTION	APPROVED	DATE	
REVISIONS					

B L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825

SEAL OF THE STATE OF TEXAS
MIGUEL ANGEL A. SAUCEDA
REGISTERED
PROFESSIONAL ENGINEER
121992

The seal appearing on this document was authorized by Miguelangel A. Saucedo P. E. 121992

Miguel A. Saucedo
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: _____

PROFILE: _____

HORIZONTAL: _____

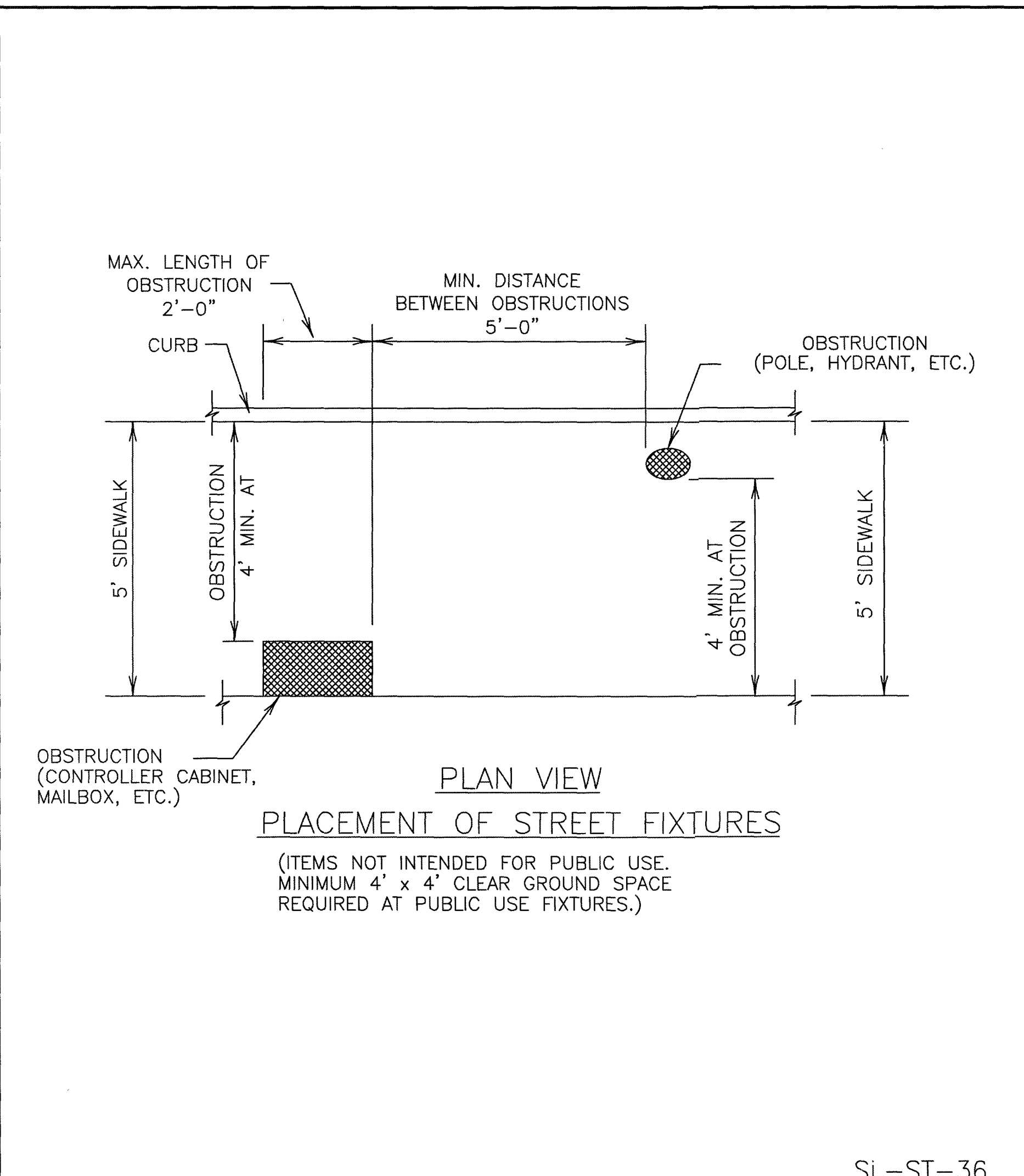
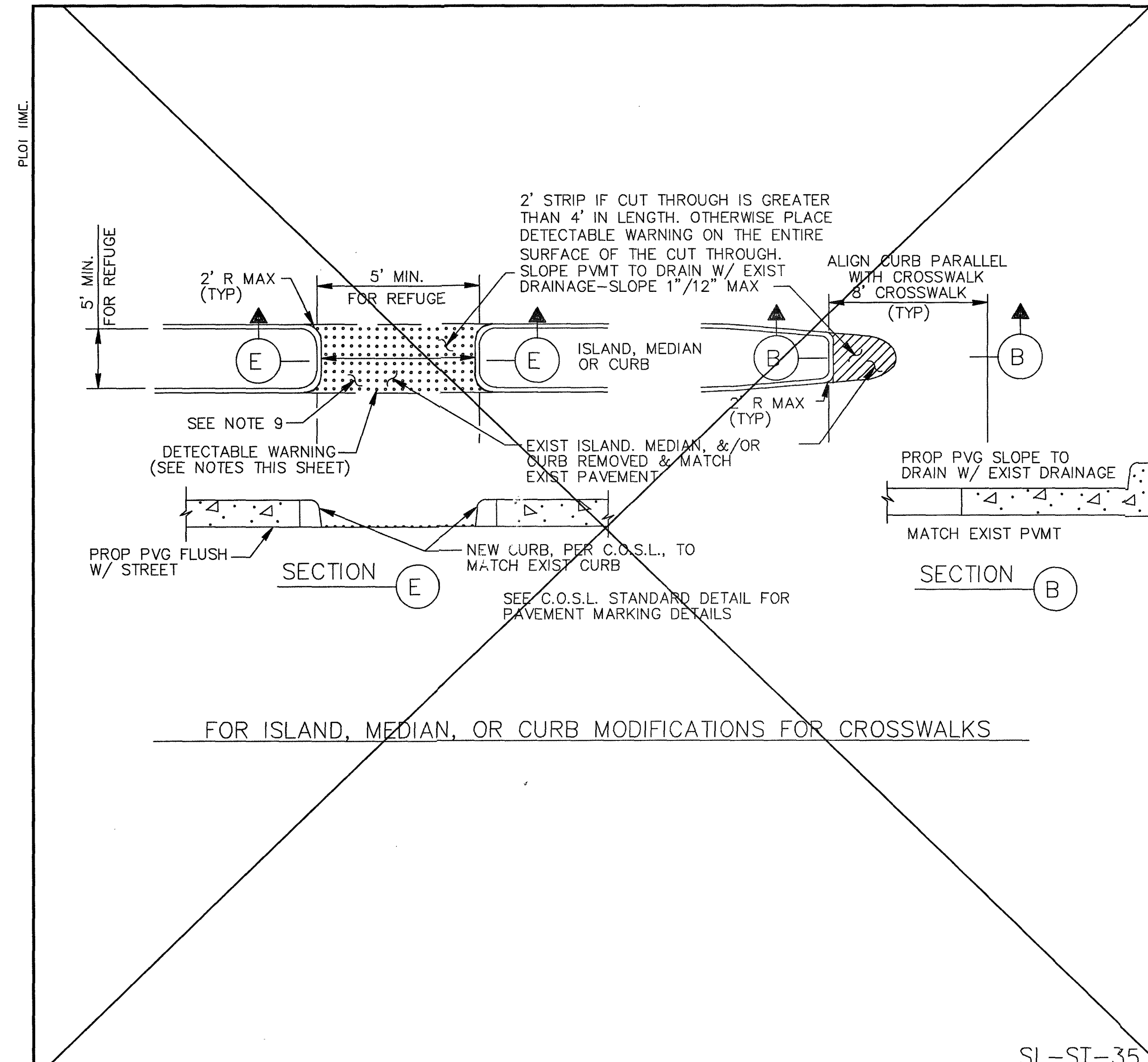
VERTICAL: _____

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

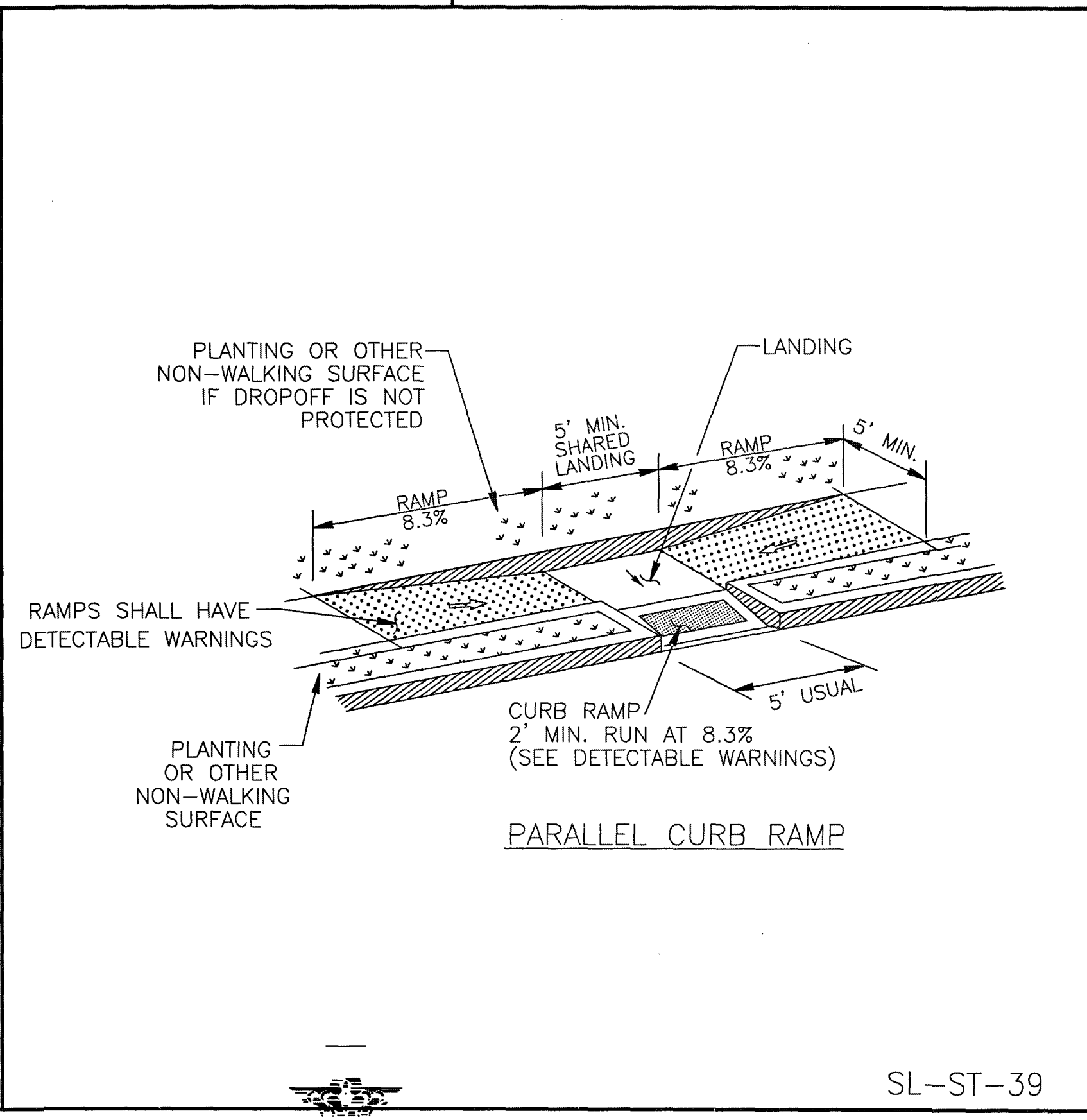
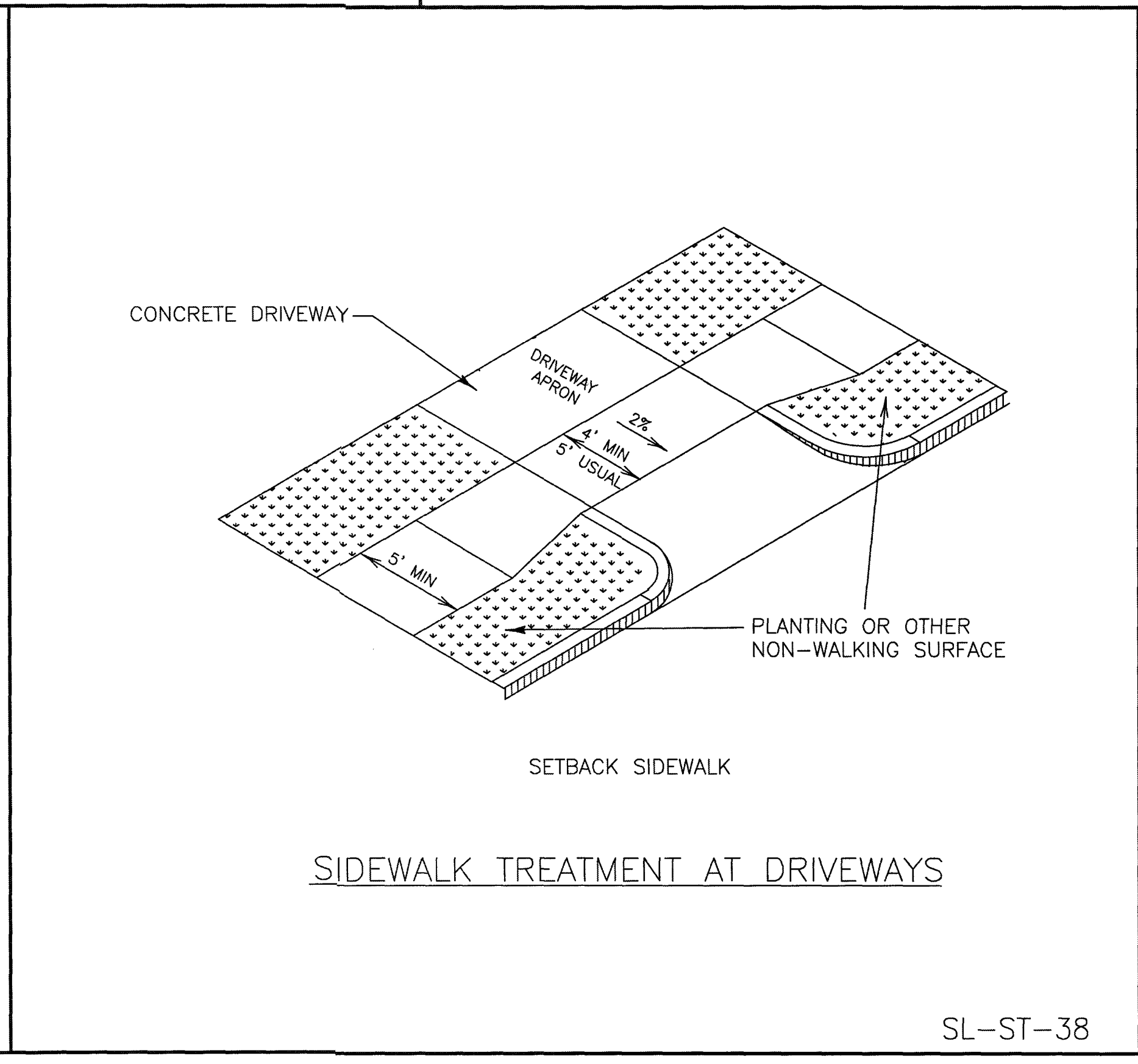
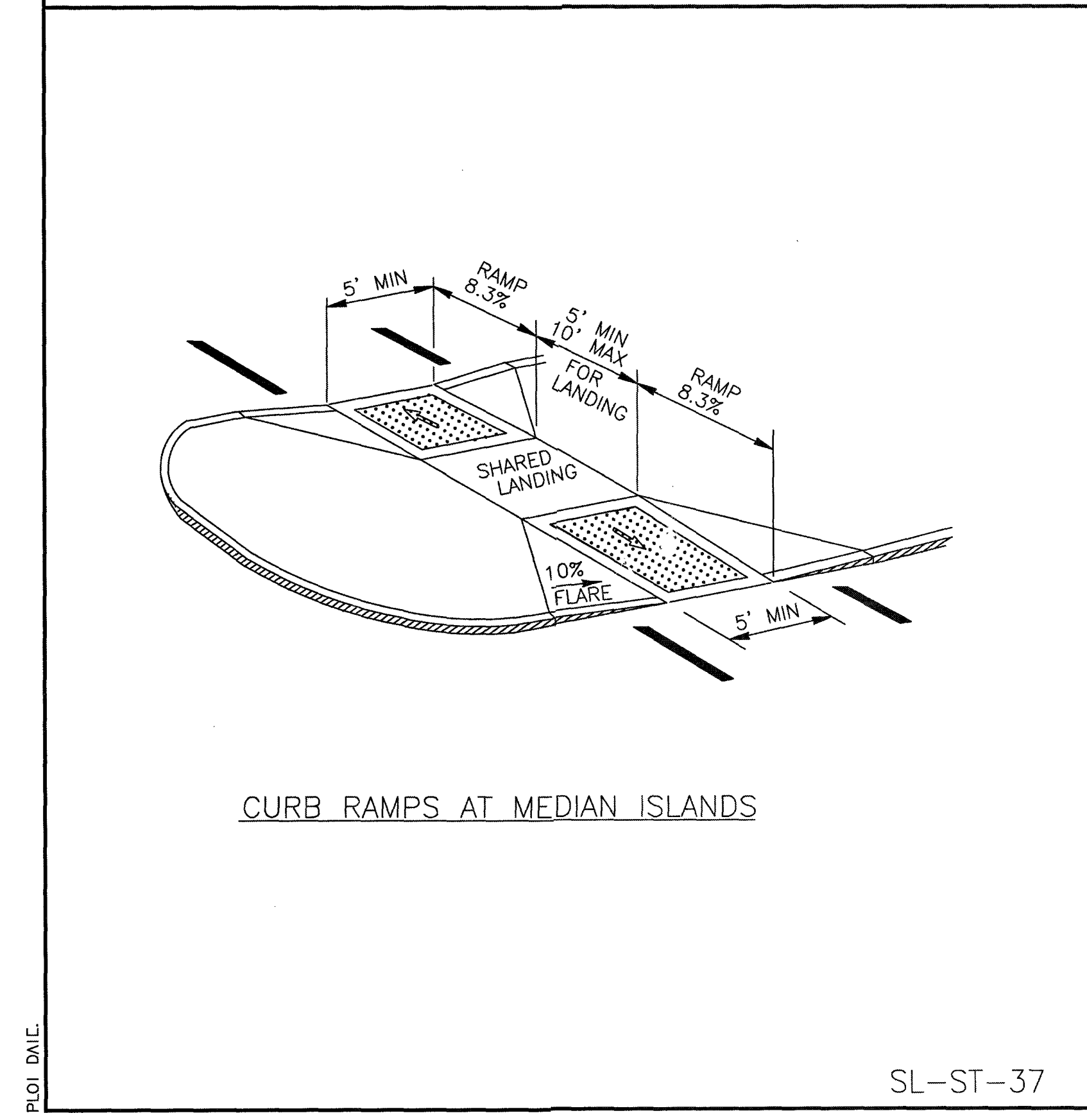
CONCRETE PAVEMENT
CONSTRUCTION DETAILS
SL-21

PROJECT NO. 13743

32



- NOTES:**
1. ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS MAY BE ADJUSTED AS DIRECTED.
 2. THE MINIMUM SIDEWALK WIDTH IS 5' (FEET). THE LANDING SHALL BE 5' x 5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND RAMP SURFACES IS 2%. USUAL SIDEWALK CROSS SLOPE EQUALS 1.5%. CHANGES IN LEVEL GREATER THAN 1/4" (IN.) ARE NOT PERMITTED.
 3. MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 5' x 5' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
 4. ANY PART OF THE ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 (5%) SHALL BE CONSIDERED A RAMP. IF A RAMP HAS A RISE GREATER THAN 6" (IN.) OR A HORIZONTAL PROJECTION GREATER THAN 72 INCHES, THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES, WITH THE FOLLOWING EXCEPTIONS:
 - A.) HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. CURB RAMPS SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
 - B.) THE LEAST POSSIBLE GRADE SHOULD BE USED TO MAXIMIZE ACCESSIBILITY. WHERE STRUCTURALLY IMPRACTICAL TO ACHIEVE TEXAS ACCESSIBILITY STANDARDS (TAS) COMPLIANCE, THE RUNNING SLOPE OF SIDEWALKS AND CROSSWALKS, WITHIN THE PUBLIC R.O.W., MAY FOLLOW THE GRADE OF THE PARALLEL ROADWAY WITHOUT INVOKING TEXAS ACCESSIBILITY STANDARDS (TAS) VARIANCES FOR LANDINGS OR HANDRAILS. WHERE A CONTINUOUS GRADE GREATER THAN 5% MUST BE PROVIDED, HANDRAILS MAY BE DESIRABLE ON ONE OR BOTH SIDES OF THE SIDEWALK TO IMPROVE ACCESSIBILITY. HANDRAILS MAY ALSO BE NEEDED TO PROTECT PEDESTRIANS FROM POTENTIALLY HAZARDOUS CONDITIONS.
 5. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. OTHERWISE, FLARED SIDES SHALL BE PROVIDED. ALL CONCRETE SURFACES SHALL RECEIVE A LIGHT BROOM FINISH UNLESS NOTED OTHERWISE IN THE PLANS.
 6. RAMP TEXTURES MUST CONSIST OF TRUNCATED DOME SURFACES, IN ACCORDANCE WITH ADA AND TEXAS DEPARTMENT OF LICENSING AND REGULATIONS (TDLR), TEXTURES ARE REQUIRED TO BE DETECTABLE UNDERFOOT. TEXTURES ALSO SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. SURFACES THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED.
 7. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) PREPARED AND ADMINISTERED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).
 8. RAISED MEDIANS SEPARATE OPPOSING DIRECTIONS OF TRAFFIC AND PROVIDE A REFUGE AREA FOR PEDESTRIANS UNABLE TO CROSS THE ENTIRE ROADWAY IN THE ALLOTTED SIGNAL PHASE. TO SERVE AS A REFUGE AREA, THE MEDIAN SHALL BE A MINIMUM OF 5' (FT.) WIDE. MEDIANS SHOULD BE DESIGNED TO PROVIDE ACCESSIBLE PASSAGE OVER OR THROUGH THEM.
 9. SMALL CHANNELIZATION ISLANDS, WHICH CAN NOT PROVIDE A MINIMUM 5' x 5' LANDING AT THE TOP OF RAMPS, SHALL BE CUT THROUGH LEVEL WITH THE SURFACE OF THE STREET.
 10. CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
 11. EXISTING FEATURES THAT COMPLY WITH T.A.S. MAY REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS.
 12. TRAFFIC SIGNAL OR ILLUMINATION POLES, GROUND BOXES, CONTROLLER BOXES, SIGNS, DRAINAGE FACILITIES AND OTHER ITEMS SHALL BE PLACED SO NOT TO OBSTRUCT THE ACCESSIBLE ROUTE.




SL-ST-40

No.	DATE	REVISION

SEAL: _____

DESIGN ENGINEER: _____ DATE: _____


CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

WHEEL CHAIR RAMP & SIDEWALK DETAILS II

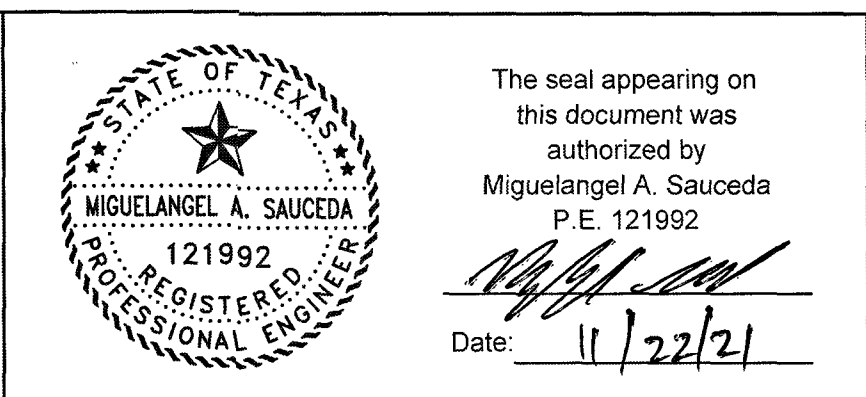
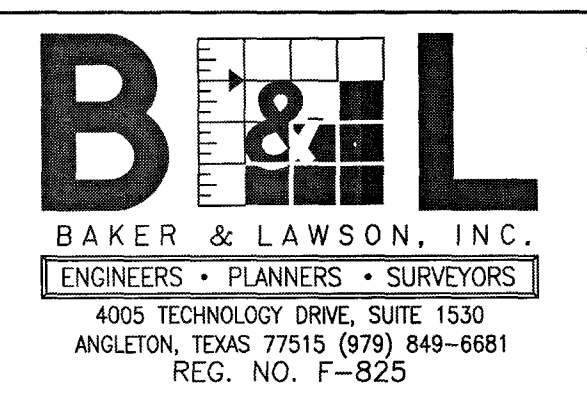
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DESIGNED BY: _____
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CHECKED BY: _____
SCALE: _____

SL-26
SHEET OF

NO.	DATE	DESCRIPTION	APPROVED

REVISIONS

DESIGNED MS
DRAWN BT
CHECKED
DATE



OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA DRIVE, SUITE 340 HOUSTON TX. 77057

PLAN: _____
PROFILE: _____
HORIZONTAL: _____
VERTICAL: _____

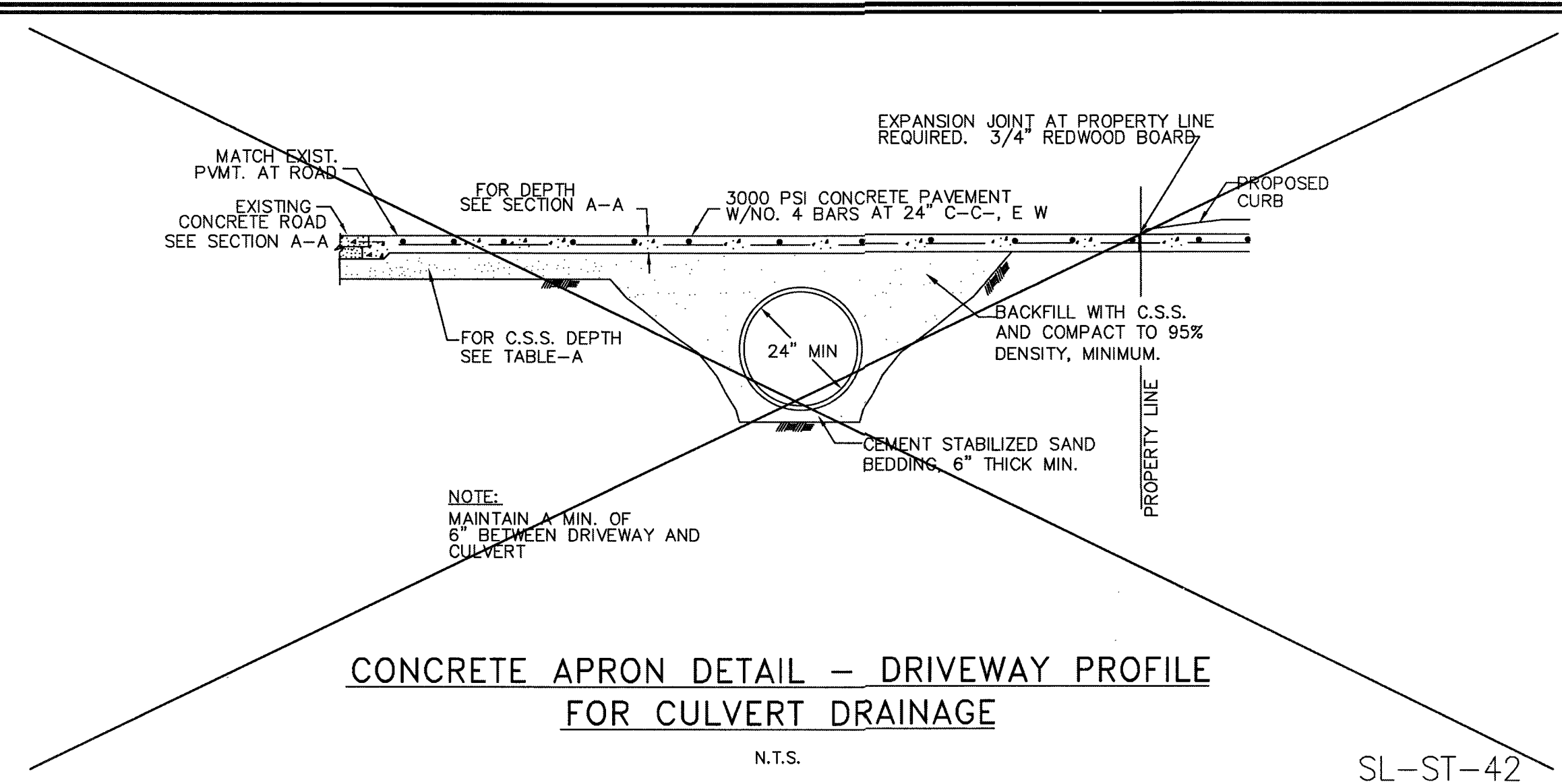
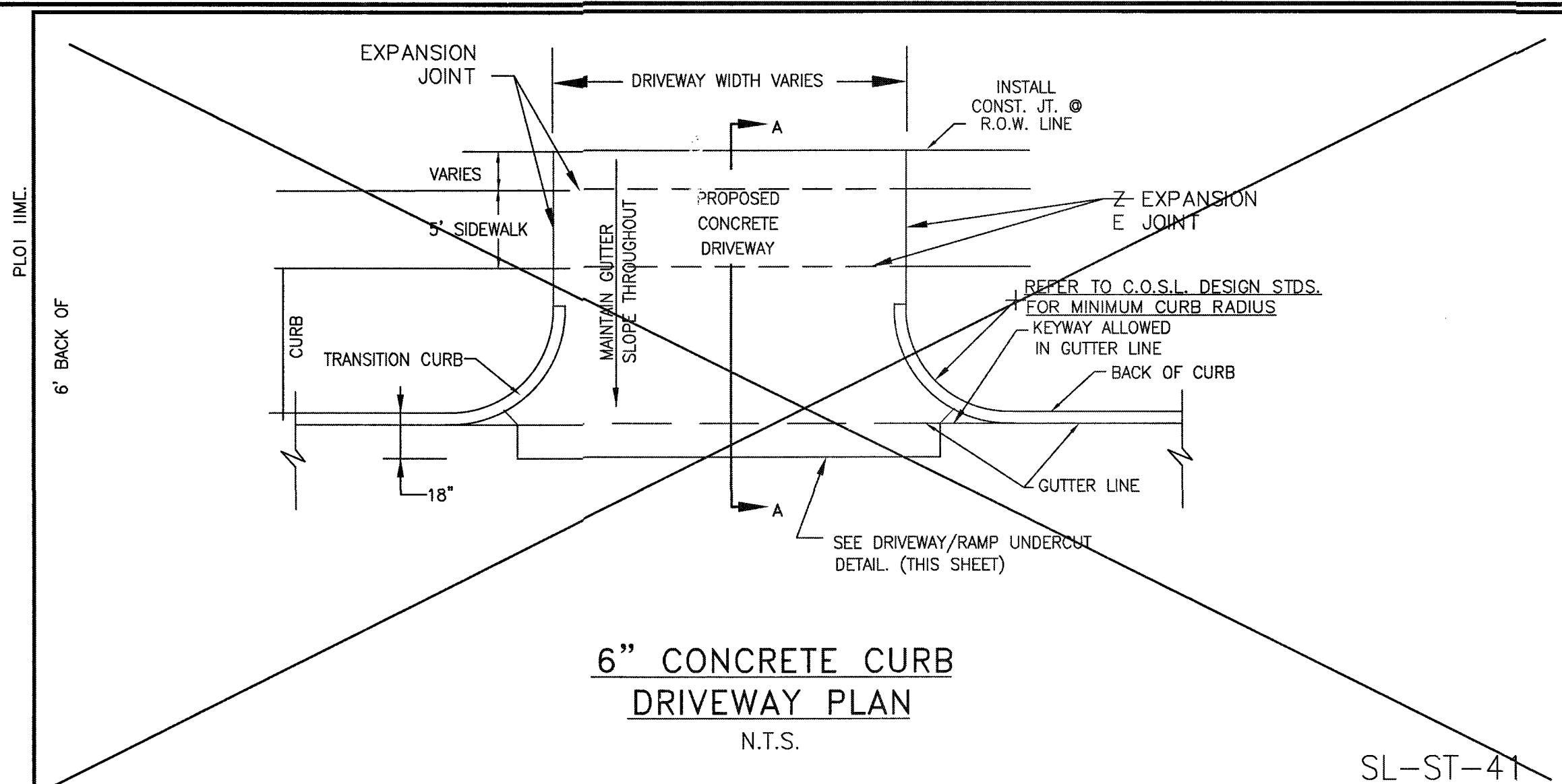
GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

WHEEL CHAIR RAMP & SIDEWALK DETAILS II
SL-26

PROJECT NO. 13743

36

RECORD DRAWING



- NOTES:
- 1.) SAW CUT & BREAKOUT NO MORE THAN 72 HOURS PRIOR TO PROPOSED CONCRETE PLACEMENT. NOTIFY SUGAR LAND PRIOR TO CUT.
 - 2.) UNSTABLE SUBGRADE SHALL BE OVER EXCAVATED & REPLACED WITH CONCRETE.
 - 3.) IT IS CONTRACTOR'S RESPONSIBILITY TO NOTIFY SUGAR LAND OF ANY BIRD BATH PROBLEMS PRIOR TO CONSTRUCTION OF DRIVEWAY.
 - 4.) USE 1"x2" TREATED REDWOOD FOR HEADER.
 - 5.) EDGE ALL SIDES WITH EDGING TOOL AND BROOM FINISH
 - 6.) FOR INDUSTRIAL DRIVES, PAVEMENT SHALL HAVE A DEPTH OF 8" (IN).
 - 7.) EXPANSION JOINT AT PROPERTY LINE REQUIRED. 3/4" REDWOOD BOARD WITH NO. 4 DOWELS MINIMUM.
 - 8.) MAXIMUM ALLOWABLE DRIVEWAY GRADE IN PUBLIC R.O.W. IS 5%.
 - 9.) DRIVEWAY GRADE MUST MEET A.D.A. AND T.A.S. SIDEWALK SLOPE. SIDEWALKS MUST BE SCORED TO MATCH ADJACENT SIDEWALK. IF SLOPE IS CONTINUED THROUGH THE R.O.W. LINE, PROVIDE A 3/4" REDWOOD EXPANSION JOINT WITH DOWELS AT R.O.W. LINE.
 - 10.) REFER TO GENERAL, C.S.S., ASPHALT, AND CONCRETE PAVEMENT NOTES.

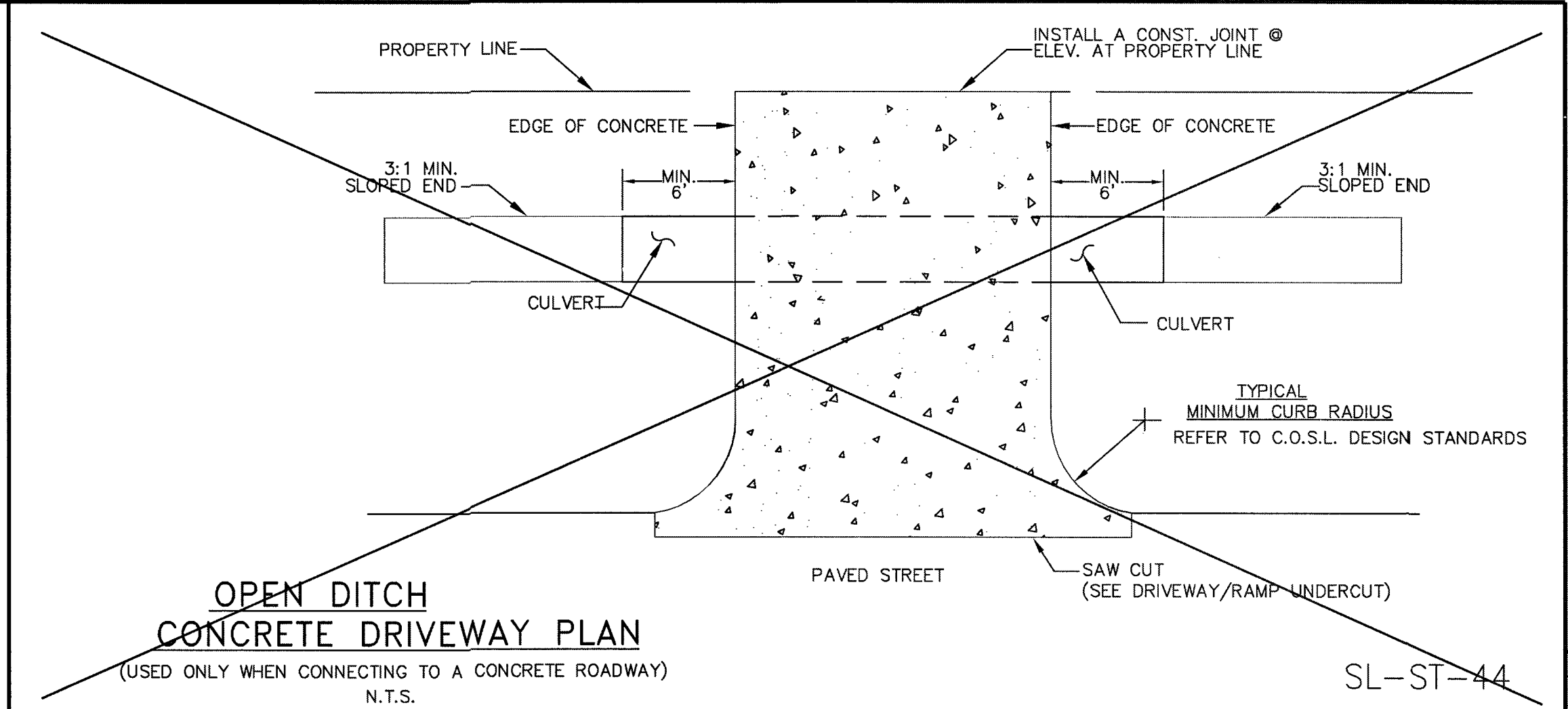
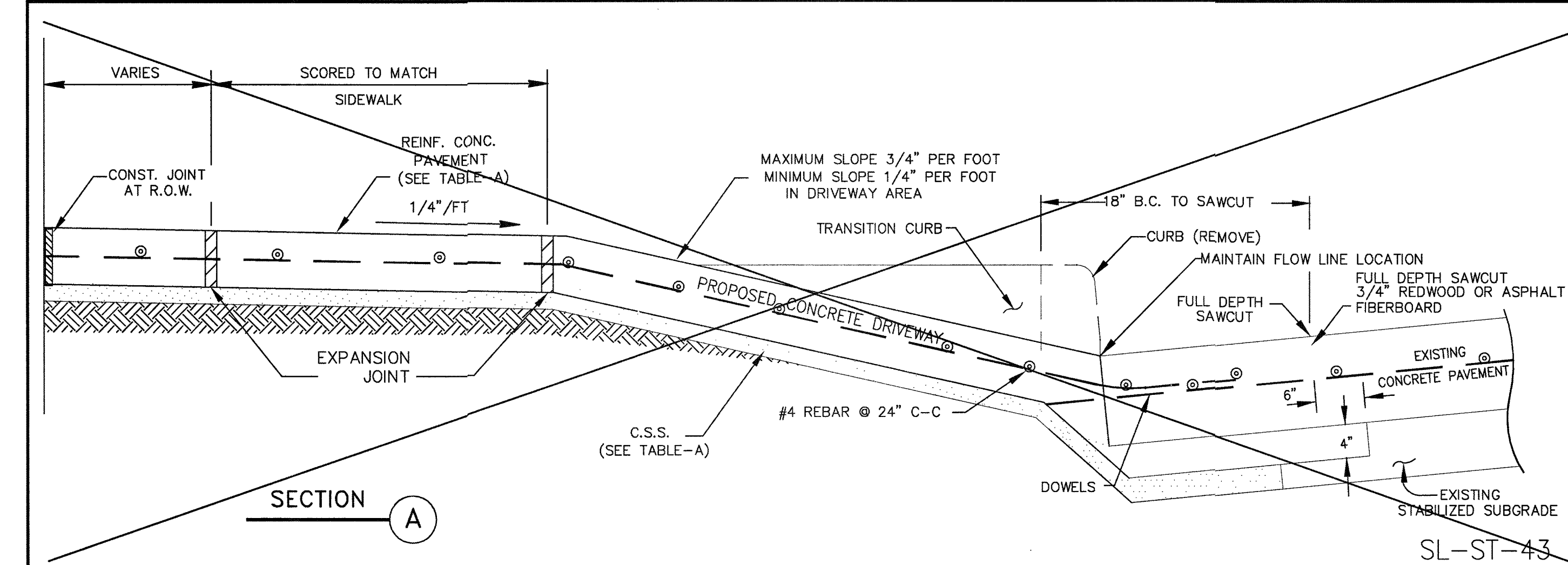


TABLE-A

CEMENT STABILIZED SAND 2-SK/C.Y.	
RESIDENTIAL	4" MINIMUM
COMMERCIAL	6" MINIMUM
INDUSTRIAL	8" MINIMUM
REINFORCED CONCRETE PAVEMENT 3000 PSI MIN	
RESIDENTIAL	4" MINIMUM
COMMERCIAL	6" MINIMUM
INDUSTRIAL	8" MINIMUM

DRIVEWAY
PAVEMENT
CONSTRUCTION TABLE

No.	DATE	REVISION

DESIGN ENGINEER: _____ DATE: _____

SEAL: _____



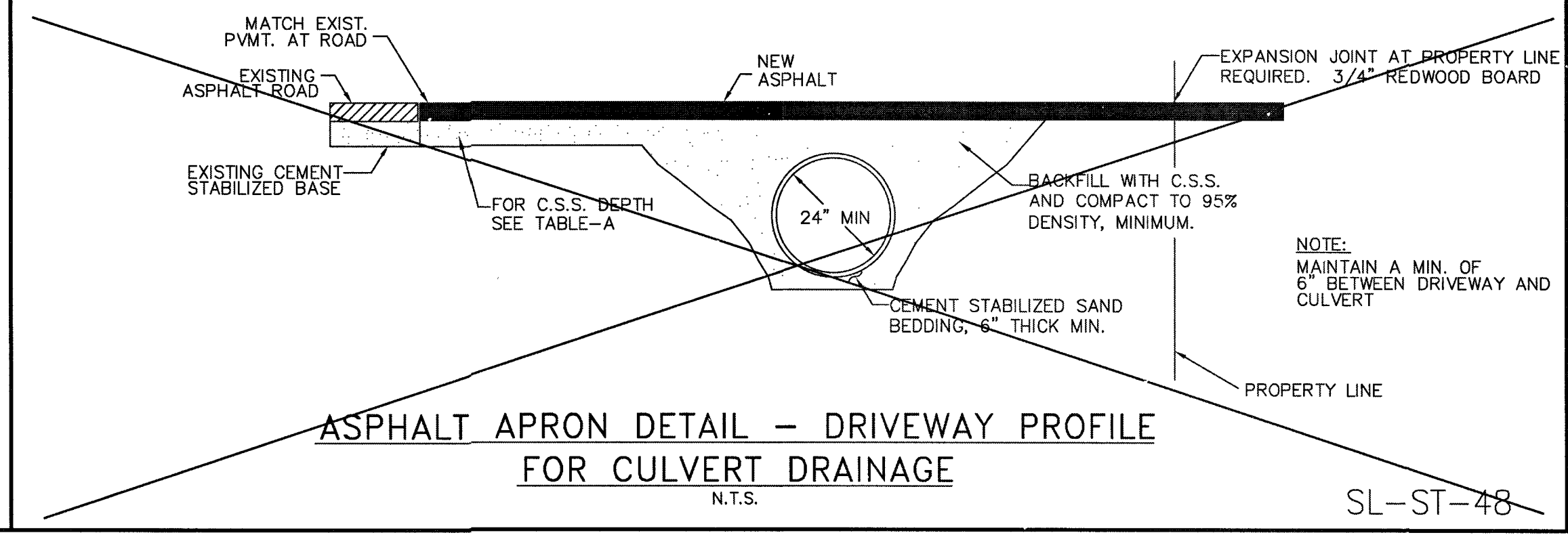
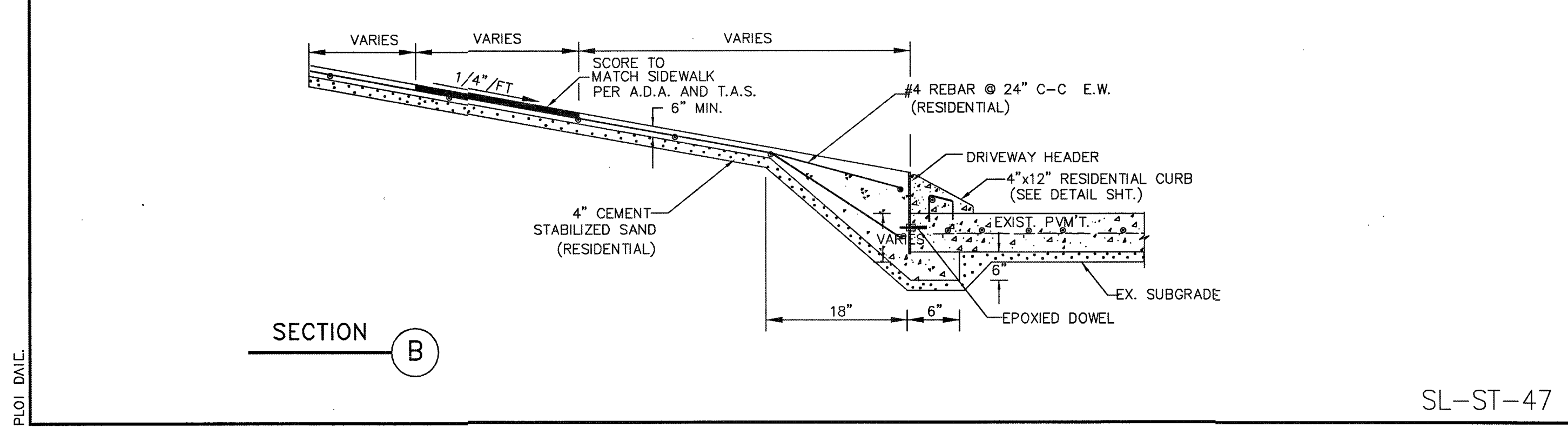
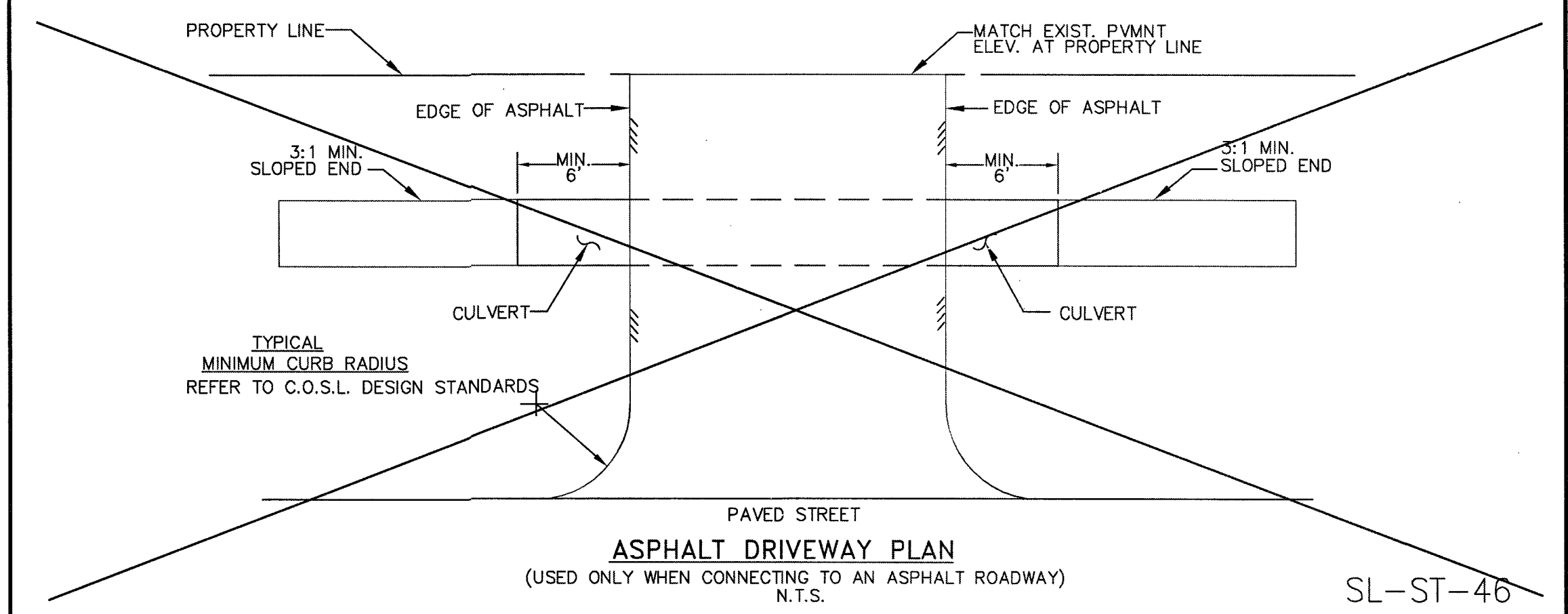
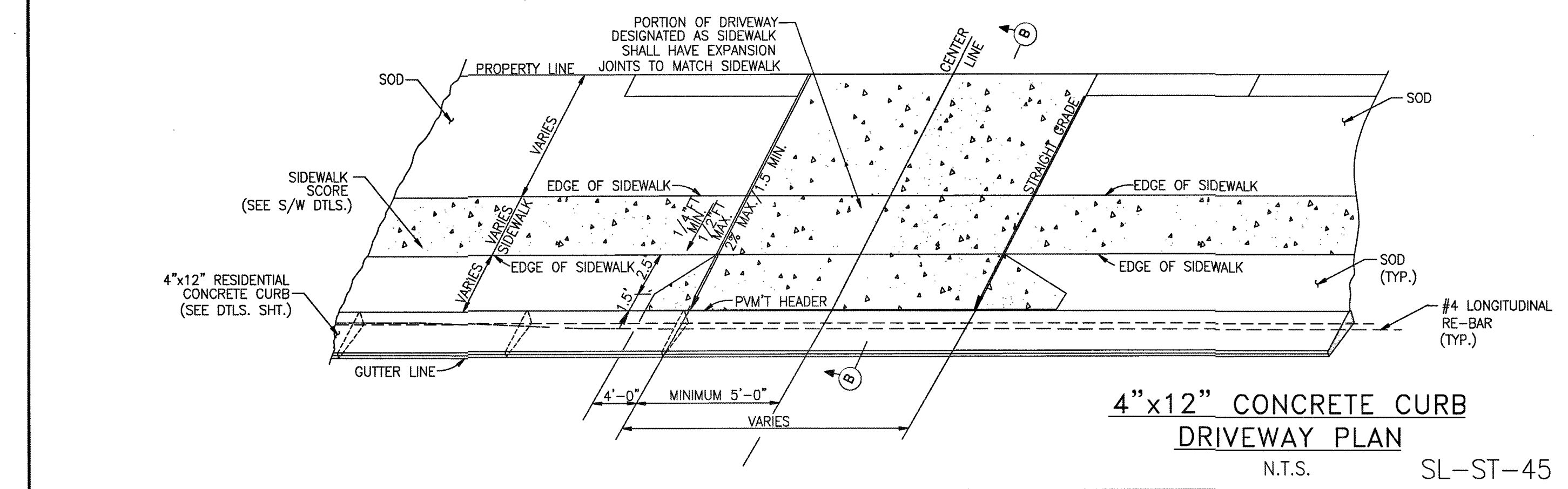
CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

DRIVEWAY
CONSTRUCTION DETAILS

JOB No.: _____
DATE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: _____

SL-27
SHEET OF

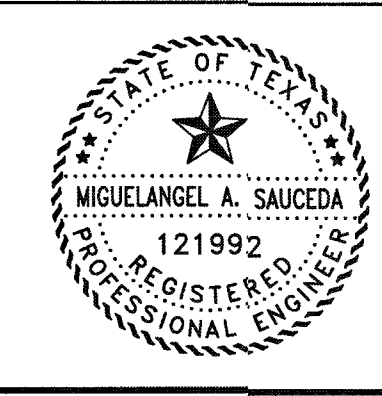


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NO.	DATE	DESCRIPTION	APPROVED

DESIGNED: MS
DRAWN: BT
CHECKED: _____
DATE: _____

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



The seal appearing on this document was authorized by Miguelangel A. Saucedo P.E. 121992
Date: 11/22/21

OWNER:
DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: _____
PROFILE: _____
HORIZONTAL: _____
VERTICAL: _____

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

DRIVEWAY CONSTRUCTION
DETAILS
SL-27

PROJECT NO. 13743

1. HYPER-CHLORINATED WATER SHALL NOT BE DISCHARGED TO THE STORM SEWER OR DRAINAGE SYSTEM UNLESS THE CHLORINE CONCENTRATION IS REDUCED TO 4 PPM OR LESS BY CHEMICALLY TREATING THE DECHLORINATE OR BY ONSITE RETENTION UNTIL NATURAL ATTENUATION OCCURS.
2. DISCHARGE OF HIGH FLOW RATE AND VELOCITIES SHALL BE DIRECTED TO VELOCITY DISSIPATION DEVICES.
3. CHLORINE CAN BURN VEGETATION, SO IT SHOULD NOT BE USED TO WATER VEGETATION THAT IS BEING USED FOR STABILIZATION, VEGETATED FILTERS OR BUFFERS, OR OTHER VEGETATION TO BE PRESERVED.
4. HYPER-CHLORINATED WATER SHALL BE DISCHARGED TO AN ONSITE RETENTION AREA UNTIL NATURAL ATTENUATION OCCURS. THE AREA MAY BE A DRY STORMWATER RETENTION BASIN, OR A PORTION OF THE SITE MAY BE GRADED TO FORM A TEMPORARY PIT OR BERMED AREA.
5. NATURAL ATTENUATION OF THE CHLORINE MAY BE AIDED BY AERATION. AIR CAN BE ADDED TO THE WATER BY BUBBLING THE WATER OVER A ROUGH SURFACE BEFORE IT ENTERS THE TEMPORARY RETENTION AREA OR AN AERATION DEVICE CAN BE PLACED IN THE RETENTION AREA.
6. ONSITE DISCHARGE MAY REQUIRE SEVERAL HOURS TO A FEW DAYS BEFORE THE WATER IS SAFE TO DISCHARGE. THE RATE AT WHICH CHLORINE WILL BE REMOVED IS AFFECTED BY SOIL CONDITIONS AND WEATHER CONDITIONS. ATTENUATION WILL OCCUR QUICKEST DURING WARM, SUNNY, AND DRY PERIODS.

1. THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE NUMBER OF PORTABLE TOILETS BASED ON THE NUMBER OF EMPLOYEES USING THE TOILETS AND THE HOURS THEY WILL WORK.
2. SANITARY FACILITIES SHALL BE PLACED ON A MINIMUM OF 50 FEET AWAY FROM STORM DRAIN INLETS, CONVEYANCE, CHANNELS OR SURFACE WATERS. IF UNABLE TO MEET THE 50 FOOT REQUIREMENT DUE TO SITE CONFIGURATION, PORTABLE TOILETS SHALL BE A MINIMUM OF 20 FEET AWAY FROM STORM DRAIN INLETS, CONVEYANCE CHANNELS OR SURFACE WATER AND SECONDARY CONTAINMENT SHALL BE PROVIDED IN CASE OF SPILLS.
3. THE LOCATION OF THE PORTABLE TOILETS SHALL BE ACCESSIBLE.
4. MAINTENANCE TRUCKS WITHOUT DAMAGING EROSION AND SEDIMENT CONTROLS OR CAUSING EROSION OR TRACKING PROBLEMS.
5. SANITARY FACILITIES SHALL BE FULLY ENCLOSED AND DESIGNED IN A MANNER THAT MINIMIZES EXPOSURE OF SANITARY WASTE TO PRECIPITATION AND STORMWATER RUNOFF.
6. WHEN HIGH WINDS ARE EXPECTED, PORTABLE TOILETS SHALL BE ANCHORED OR OTHERWISE SECURED TO PREVENT THEM FROM BEING BLOWN OVER.
7. THE COMPANY THAT SUPPLIES AND MAINTAINS THE PORTABLE TOILETS SHALL BE NOTIFIED IMMEDIATELY IF A TOILET IS TIPPED OVER OR DAMAGED IN A MANNER THAT THE RESULTS IN A DISCHARGE. DISCHARGED SOLID MATTER SHALL BE VACUUMED INTO A SEPTIC TRUCK BY THE COMPANY THAT MAINTAINS THE TOILETS.
8. THE OPERATOR OF THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL BE NOTIFIED IF A DISCHARGE FROM THE PORTABLE TOILETS ENTERS A RIVER OR A NATURAL CHANNEL.
9. SANITARY FACILITIES SHALL NOT BE PERMITTED ON PUBLIC SIDEWALKS, STREETS OR INLETS.

1. ALL WASTE SOURCES AND STORAGE AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL MATERIAL AND WASTE SOURCES BE CLOSER THAN 50 FEET FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS.
2. CONSTRUCTION WASTE AND TRASH SHALL BE STORED IN A MANNER THAT MINIMIZES ITS EXPOSURE TO PRECIPITATION AND STORMWATER RUNOFF.
3. WHENEVER POSSIBLE, MINIMIZE PRODUCTION OF DEBRIS AND TRASH.
4. INSTRUCT CONSTRUCTION WORKERS IN PROPER DEBRIS AND TRASH STORAGE AND HANDLING PROCEDURES.
5. SEPARATE POTENTIAL HAZARDOUS WASTE FROM NON-HAZARDOUS CONSTRUCTION SITE DEBRIS.
6. PROHIBIT LITTERING BY WORKERS AND VISITORS.
7. POLICE SITE DAILY FOR LITTER AND DEBRIS.
8. ENFORCE SOLID WASTE HANDLING AND STORAGE PROCEDURES.
9. IF FEASIBLE, RECYCLE CONSTRUCTION AND DEMOLITION DEBRIS SUCH AS WOOD, METAL, AND CONCRETE.
10. TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AT REGULAR INTERVALS THAT ARE SCHEDULED TO EMPTY CONTAINERS WHEN THEY ARE 90 PERCENT FULL OR MORE FREQUENTLY.
11. GENERAL CONSTRUCTION DEBRIS MAY BE HAULED TO A LICENSED GENERAL WASTE DEBRIS LANDFILL.
12. USE WASTE AND RECYCLING HAULERS/FACILITIES APPROVED BY THE LOCAL MUNICIPALITY.
13. CHIPPING OF TREES AND BRUSH FOR USE SUCH AS MULCH IS PREFERRED ALTERNATIVE TO OFFSITE DISPOSAL.
14. NO WASTE, TRASH, OR DEBRIS SHALL BE BURIED, BURNED OR OTHERWISE DISPOSED ON SITE.
15. CLEARLY MARK ON ALL DEBRIS AND TRASH CONTAINERS WHICH MATERIALS ARE ACCEPTABLE. FOREMAN AND/OR CONSTRUCTION SUPERVISOR SHALL MONITOR ONSITE SOLID WASTE STORAGE AND DISPOSAL PROCEDURES DAILY.

1. DURING SAWCUTTING OPERATIONS, THE SLURRY AND CUTTINGS SHALL BE CONTINUOUSLY VACUUMED OR OTHERWISE RECOVERED AND NOT BE ALLOWED TO REMAIN ON THE SITE.
2. IF THE FAVORABLE WIND DIRECTION IS NEAR A STORM DRAIN INLET, THE INLET SHALL BE BLOCKED BY SANDBAGS OR EQUIVALENT TEMPORARY MEASURES TO PREVENT THE SLURRY FROM ENTERING THE INLET. REMOVE THE SANDBAGS IMMEDIATELY AFTER COMPLETING SAWCUTTING OPERATIONS, SO THEY DO NOT CAUSE DRAINAGE PROBLEMS DURING STORM EVENTS.
3. SLURRY AND CUTTINGS SHALL NOT BE ALLOWED TO REMAIN ON THE PAVEMENT TO DRY OUT.
4. DEVELOP PRE-DETERMINED, SAFE SLURRY DISPOSAL AREAS.
5. COLLECTED SLURRY AND CUTTINGS SHOULD BE IMMEDIATELY HAULED FROM THE SITE FOR DISPOSAL AT A WASTE FACILITY. IF THIS IS NOT POSSIBLE, THE SLURRY AND CUTTINGS SHALL BE DISCHARGED INTO ONSITE CONTAINMENT.
6. THE ONSITE CONTAINMENT MAY BE EXCAVATED OR BERMED PIT LINED WITH PLASTIC MINIMUM OF 10 MILLIMETERS THICK. IF THE PROJECT INCLUDES PLACEMENT OF NEW CONCRETE, SLURRY FROM SAWCUTTING MAY BE DISPOSED OF IN FACILITIES DESIGNATED FOR THE WASHOUT OF CONCRETE TRUCKS, INSTEAD OF CONSTRUCTING A SEPARATE CONTAINMENT.
7. THE CONTAINMENT SHALL BE A MINIMUM OF 10 FEET AWAY FROM INLETS, SWALES, DRAINAGEWAYS, CHANNELS, AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL THE COLLECTION AREA BE CLOSER THAN 20 FEET FROM INLETS, SWALES, DRAINAGEWAYS, CHANNELS AND OTHER WATERS.
8. SEDIMENT PORTALS OR FINE-FRAMED, 1/2" MESH, WASHOUT COLLECTION BASINS ARE COMMERCIALY AVAILABLE AND ARE AN ACCEPTABLE ALTERNATIVE TO AN ONSITE CONTAINMENT PIT.
9. REMOVE WATER CONCRETE WHEN THE CONTAINMENT IS HALF FULL. ALWAYS MAINTAIN A MINIMUM OF ONE FOOT FREEBOARD.
10. IF RAPID REMOVAL OF THE SLURRY AND CYCLING OF THE CONCRETE WASTE IS THE PREFERRED DISPOSAL METHOD, WHEN THIS IS NOT FEASIBLE, A PASSIVE TREATMENT SYSTEM IS USED TO REMOVE THE FINES. MECHANICAL MIXING IS REQUIRED IN THE COLLECTION AREA. THE pH MUST BE TESTED, AND DISCHARGE IS ALLOWED ONLY IF THE pH DOES NOT EXCEED 8.0. THE pH MAY BE LOWERED BY ADDING SULFURIC ACID TO THE SLURRY.
11. CARE SHALL BE EXERCISED WHEN TREATING THE SLURRY WATER FOR DISCHARGE. MONITORING MUST BE IMPLEMENTED TO VERIFY THAT DISCHARGE FROM THE COLLECTION AREA DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
12. IF THE PROJECT INCLUDES SUCH AS THOSE USED FOR SILT FENCE SHOULD NOT BE USED TO CONTROL SAWCUTTING WASTE, SINCE THE GRAIN SIZE IS SIGNIFICANTLY SMALLER THAN THE APPARENT OPENING SIZE OF THE FABRIC.

1. RECORDS OF RELEASES THAT EXCEED THE REPORTABLE QUANTITY (RQ) FOR OIL AND HAZARDOUS SUBSTANCES SHOULD BE MAINTAINED IN ACCORDANCE WITH THE FEDERAL AND STATE REGULATIONS.
2. EMERGENCY CONTACT INFORMATION AND SPILL RESPONSE PROCEDURES SHALL BE POSTED IN A PROMINENTLY AVAILABLE REA FOR ACCESS BY ALL EMPLOYEES AND SUBCONTRACTORS.
3. SPILL CONTAINMENT KITS SHOULD BE MAINTAINED FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS THAT ARE REGULARLY ONSITE. MATERIALS IN KITS SHOULD BE BASED ON CONTAINMENT GUIDELINES IN THE MATERIALS SAFETY AND DATA SHEETS (MSDSs) FOR THE SUBSTANCE MOST FREQUENTLY ONSITE.
4. SPILL KITS ARE INTENDED FOR RESPONSE TO SMALL SPILLS, TYPICALLY LESS THAN 55 GALLONS. SUBSTANCES THAT ARE NOT EXTREMELY HAZARDOUS.
5. SIGNIFICANT SPILLS OR OTHER RELEASES WARRANT IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS.
6. SUSPECTED JOB-SITE CONTAMINATION SHOULD BE IMMEDIATELY REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE ACTIONS TAKEN.
7. THE CONTRACTOR SHOULD BE REQUIRED TO DESIGNATE A SITE SUPERVISOR, ENVIRONMENTAL PERSONNEL, OR OTHER SENIOR PERSON WHO IS ONSITE DAILY TO BE THE SPILL AND LEAK RESPONSE COORDINATOR (SLRC) AND MUST HAVE KNOWLEDGE OF AND BE TRAINED IN CORRECT SPILL AND LEAK RESPONSE PROCEDURES.

1. MINIMIZE THE DISCHARGE OF THE CHEMICAL STABILIZERS BY THE CONTRACTOR LIMITING THE AMOUNT OF STABILIZING AGENT ONSITE TO THAT WHICH CAN BE THOROUGHLY MIXED AND COMPACTED BY THE END OF EACH WORKDAY.
2. STABILIZERS SHALL BE APPLIED AT RATES THAT RESULT IN NO RUN OFF.
3. STABILIZATION SHALL NOT OCCUR IMMEDIATELY BEFORE AND DURING RAINFALL EVENTS.
4. NO TRAFFIC OTHER THAN WATER TRUCKS AND MIXING EQUIPMENT SHALL BE ALLOWED TO PASS OVER THE AREA BEING STABILIZED UNTIL AFTER COMPLETION OF MIXING THE CHEMICAL.
5. AREA ADJACENT AND DOWNSTREAM OF STABILIZED AREAS SHALL BE ROUGHENED TO INTERCEPT CHEMICAL RUNOFF AND REDUCE RUNOFF VELOCITY.
6. GEOTEXTILE FABRICS SUCH AS THOSE USED FOR SILT FENCE SHOULD NOT BE USED TO TREAT CHEMICAL RUNOFF, BECAUSE THE CHEMICALS ARE DISSOLVED IN THE WATER AND WON'T BE AFFECTED BY A BARRIER AND THE SUSPENDED SOLIDS ARE SIGNIFICANTLY SMALLER THAN THE APPARENT PARTICLE SIZE OF THE FABRIC.
7. IF SOIL STABILIZERS ARE STORED ONSITE, THEY SHALL BE CONSIDERED HAZARDOUS MATERIAL AND SHALL BE MANAGED ACCORDING TO THE CRITERIA OF CHEMICAL MANAGEMENT TO CAPTURE ANY ACCIDENTAL LIME OR CHEMICAL OVERFLOW.
8. THE CONTRACTOR SHALL INSTALL BMP'S TO ALL INLETS AND OPENINGS CONNECTED TO THE STORM SEWER SYSTEMS TO PREVENT LIME FROM ENTERING THE MS4 SYSTEM.

1. THE CONTRACTOR SHOULD BE REQUIRED TO DESIGNATE THE SITE SUPERINTENDENT, FOREMAN, OR OTHER PERSON WHO IS RESPONSIBLE FOR SANDBLASTING TO ALSO BE RESPONSIBLE FOR SANDBLASTING WASTE MANAGEMENT.
2. PROHIBIT THE DISCHARGE OF SANDBLASTING WASTE.
3. USE ONLY INERT, NON-DEGRADABLE SANDBLAST MEDIA.
4. USE APPROPRIATE EQUIPMENT FOR THE JOB; DO NOT OVER-BLAST.
5. WHENEVER POSSIBLE, BLAST IN A DOWNWARD DIRECTION.
6. PROHIBIT BLASTING ACTIVITIES IN HIGH WINDS OR IF WIND DIRECTION COULD TRANSPORT GRIT TO DRAINAGE FACILITIES.
7. INSTALL DUST SHIELDING AROUND SANDBLASTING AREAS.
8. COLLECT AND DISPOSE OF ALL SPENT SANDBLAST GRIT, USE DUST CONTAINMENT FABRICS AND DUST COLLECTION HOPPERS AND BARRELS.
9. PROHIBIT BLASTING ACTIVITIES IN OR NEAR AREAS WHERE PERMITTED CONSTRUCTION DEBRIS LANDFILLS OR PERMITTED SANITARY LANDFILLS.
10. IF SANDBLAST MEDIA CANNOT BE FULLY CONTAINED, CONSTRUCT SEDIMENT TRAPS DOWNSTREAM FROM BLASTING AREA WHERE APPROPRIATE.
11. USE SANIT FENCING WHERE APPROPRIATE IN AREAS WHERE BLAST MEDIA CANNOT BE FULLY CONTAINED.
12. IF NECESSARY, INSTALL MISTING EQUIPMENT TO REMOVE SANDBLAST GRIT FROM THE AIR PREVENT RUNOFF FROM MISTING OPERATIONS FROM ENTERING DRAINAGE SYSTEMS.
13. USE VACUUM GRIT COLLECTION SYSTEMS WHERE POSSIBLE.
14. KEEP RECORDS OF SANDBLASTING MATERIALS, PROCEDURES, AND WEATHER CONDITIONS ON A DAILY BASIS.
15. TAKE ALL REASONABLE PRECAUTIONS TO ENSURE THAT SANDBLASTING GRIT IS CONTAINED AND KEPT AWAY FROM DRAINAGE STRUCTURES.
16. SANIT BLASTING MEDIA SHOULD ALWAYS BE STORED UNDER COVER AWAY FROM STRUCTURES.
17. ENSURE THAT STORED MEDIA OR GRIT IS NOT SUBJECTED TO TRANSPORT BY WIND.
18. ENSURE THAT ALL SANDBLASTING EQUIPMENT AND STORAGE CONTAINERS COMPLY WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.
19. ENSURE THAT ALL RUNOFF WATER, WHICH COMES INTO CONTACT WITH SANDBLASTING MATERIALS OR WASTE

GENERAL EROSION
CONTROL NOTES
SL-33

					DESIGNED <u>MS</u>
					DRAWN <u>BT</u>
					CHECKED _____
NO.	DATE	DESCRIPTION		APPROVED	DATE _____
REVISIONS					

B L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825

The seal appearing on this document was authorized by Miguelangel A. Sauceda P.E. 121992

Miguel A. Sauceda

Date: 11/22/21

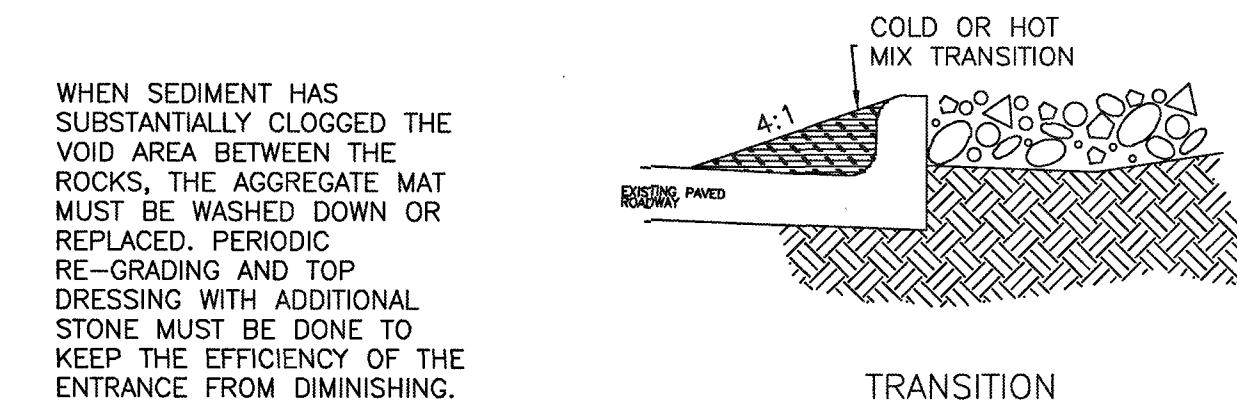
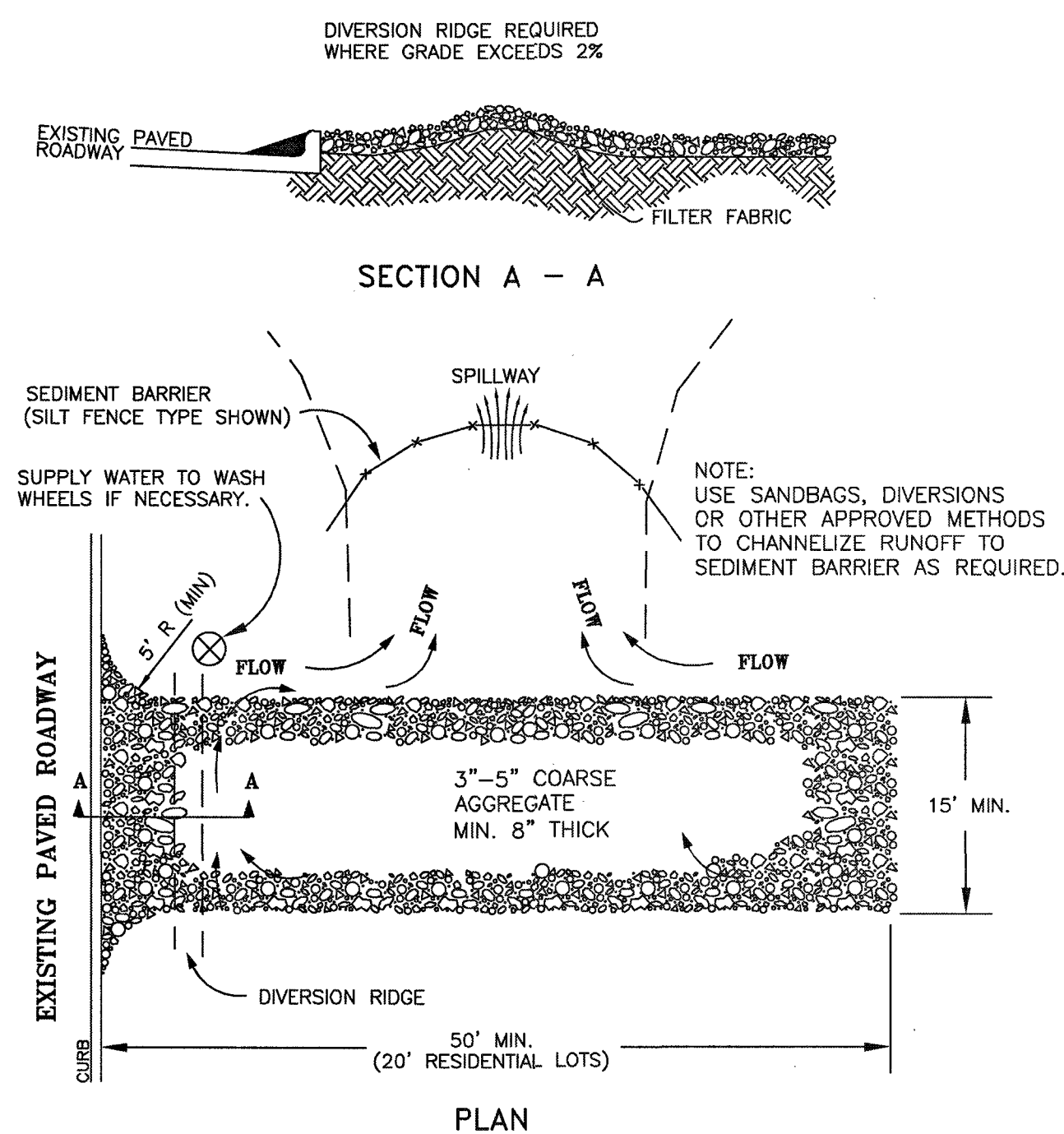
<p>OWNER: _____</p> <p>DAVID ROGERS</p> <p>ADOBE HOLDINGS INC. 1800 AUGUSTA</p> <p>DRIVE, SUITE 340</p> <p>HOUSTON TX. 77057</p>	<p>PLAN: _____</p> <p>PROFILE: _____</p> <p>HORIZONTAL: _____</p> <p>VERTICAL: _____</p>
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GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

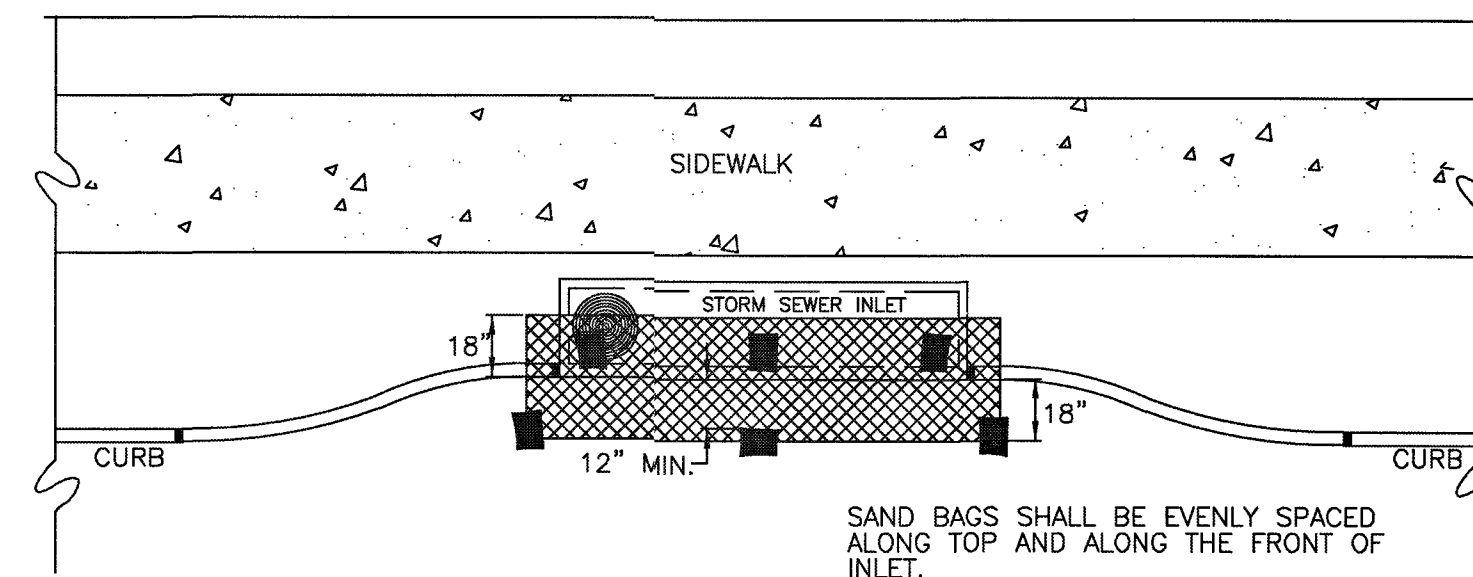
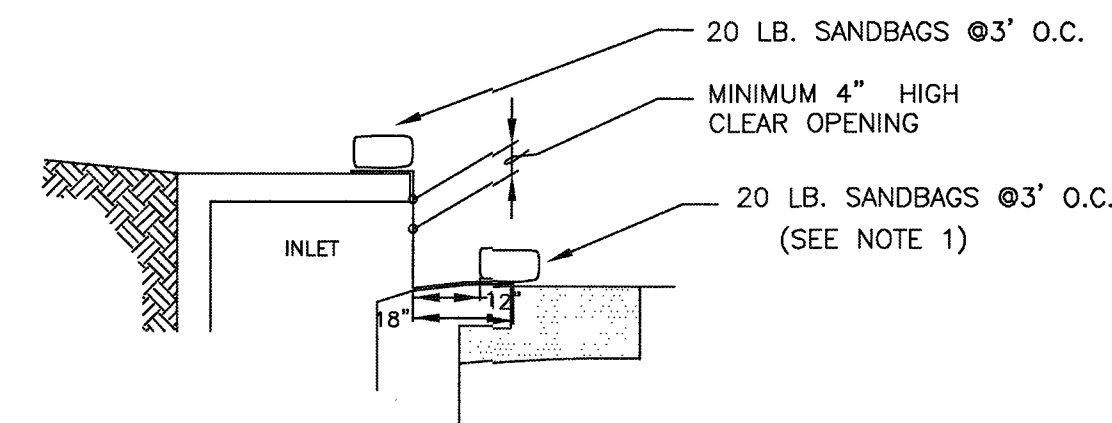
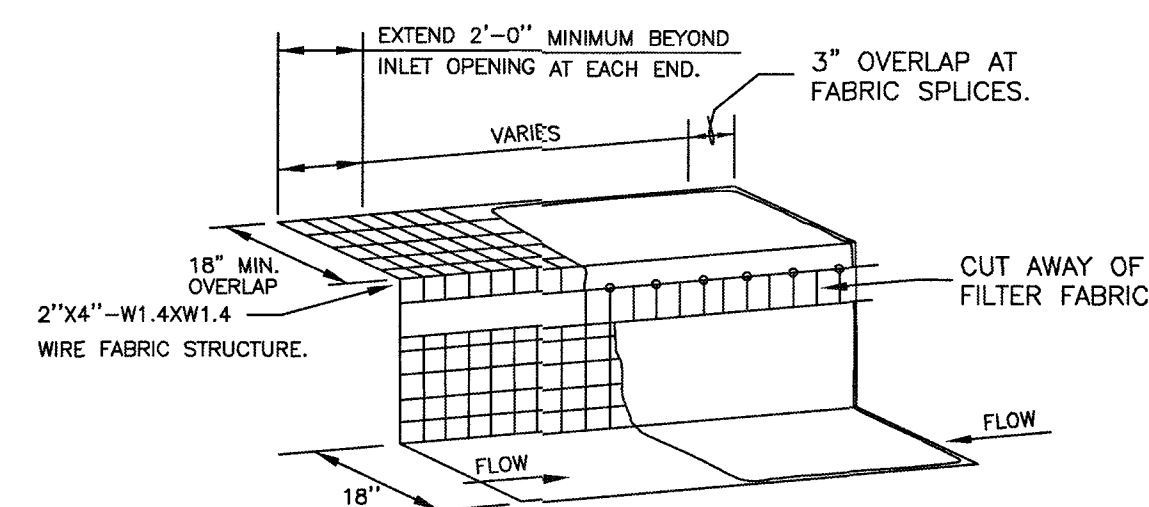
GENERAL EROSION
CONTROL NOTES
SL-33

PROJECT NO. 13743

38



TEMPORARY STONE CONSTRUCTION
ENTRANCE/EXIT -
N.T.S.

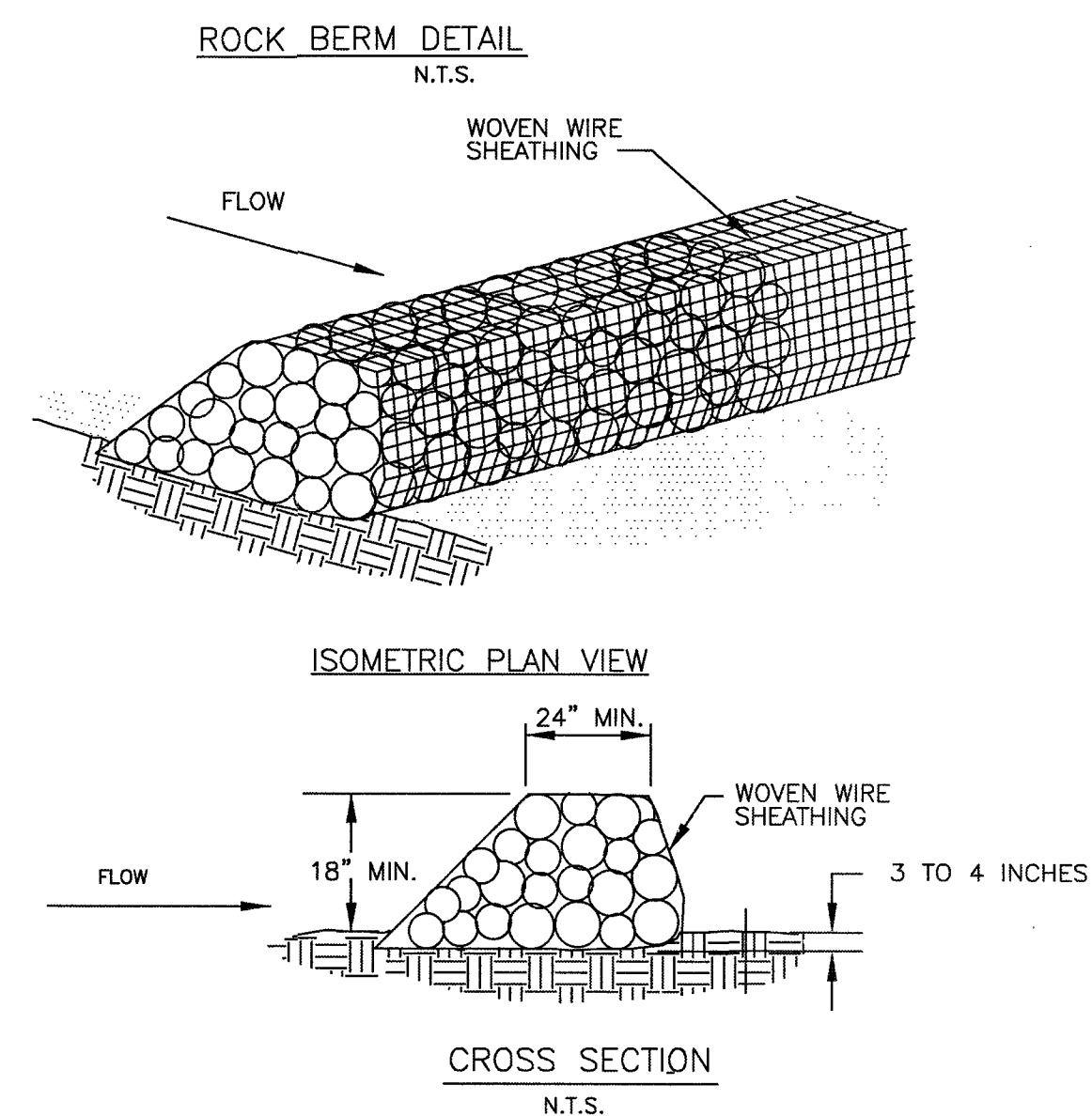


CURB INLET PROTECTION DETAIL
N.T.S.

- NOTES:

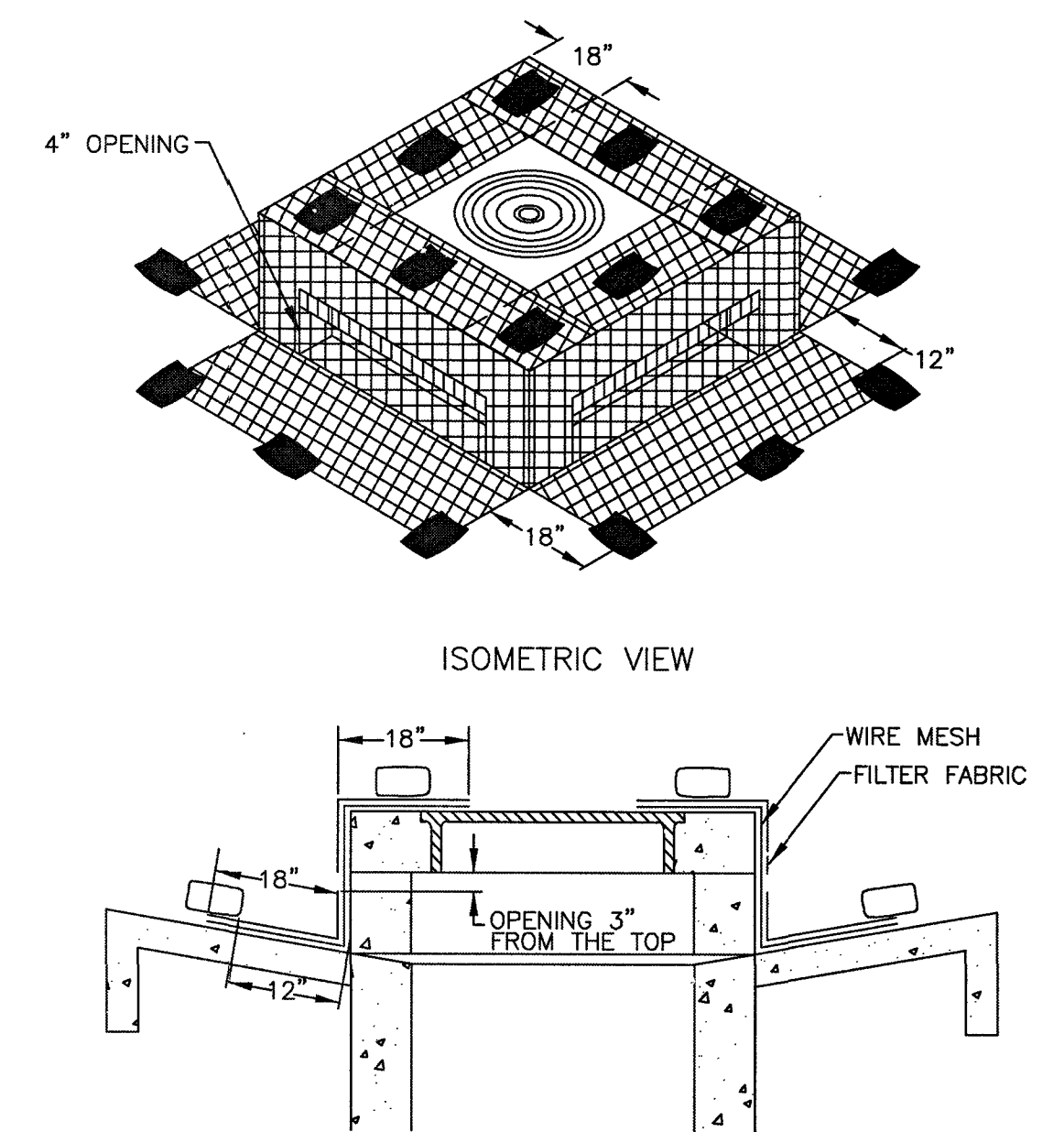
1. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL TO PROVIDE A 4" MINIMUM CLEAR OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION
2. INSPECTION SHALL BE MADE BY CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2"
3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTION IF THE STORMWATER BEGINS TO OVERTOP THE CURB.
4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF THE SEDIMENT IS STABILIZED.

INLET OPENING	MINIMUM NUMBER OF SAND BAGS	
	TOP	FRONT
5'	2	3
10'	3	3
15'	3	4
20'	4	4



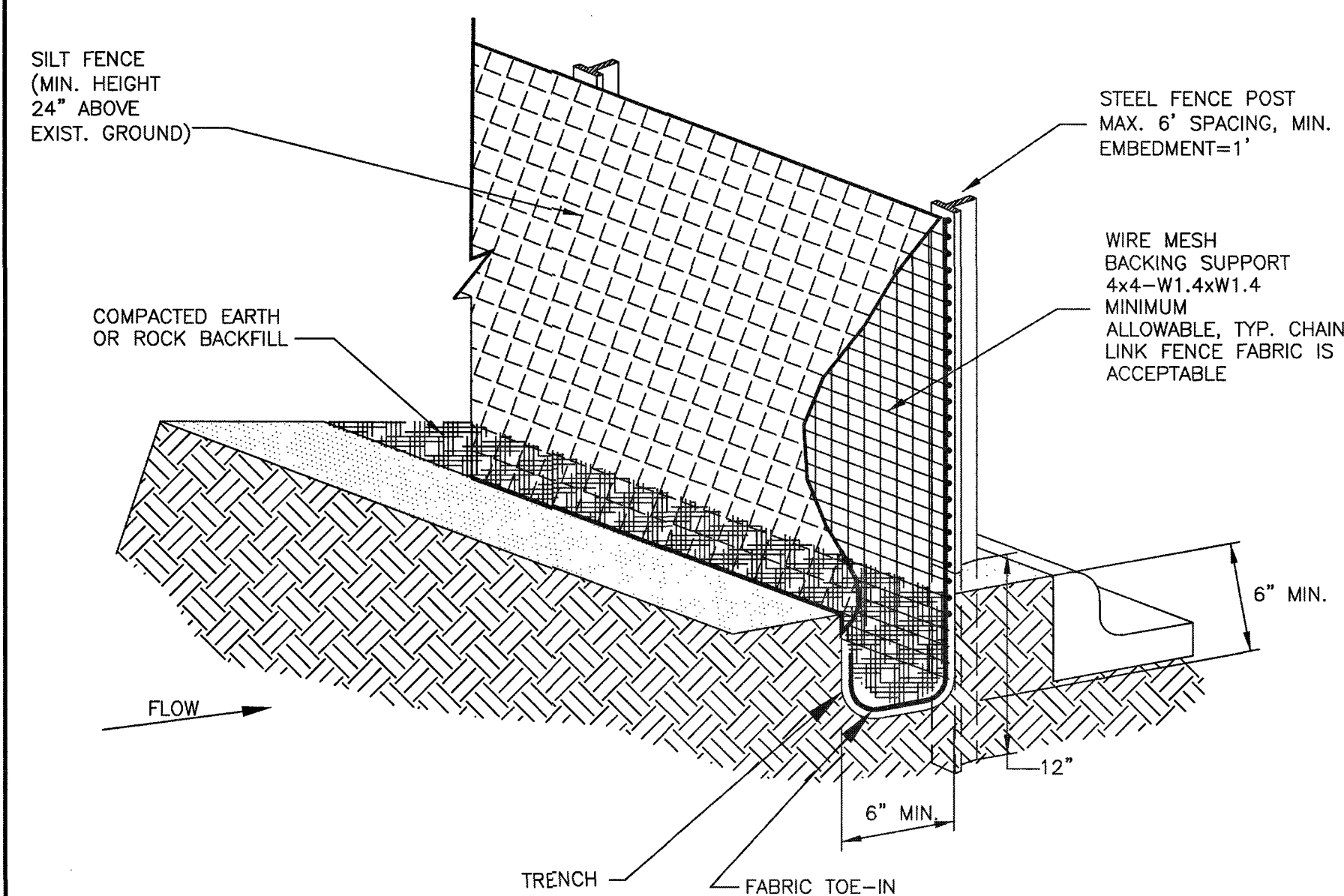
- ### ROCK BERM GENERAL NOTES

1. USE ONLY OPEN GRADED ROCK 4-8 INCHES IN DIAMETER FOR STREAM FLOW CONDITION. USE OPEN GRADED ROCK 3-5 INCHES IN DIAMETER FOR OTHER CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING A MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE SIZE OF 20 GAUGE AND SHALL BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP.
3. THE ROCK BERM SHALL BE INSPECTED EVERY TWO WEEKS OR AFTER EACH 1/2" RAIN EVENT AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
5. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
6. ROCK BERM SHOULD BE USED AS CHECK DAMS FOR CONCENTRATED FLOW AND ARE NOT INTENDED FOR USE IN PERIMETER PROTECTION.



SECTION

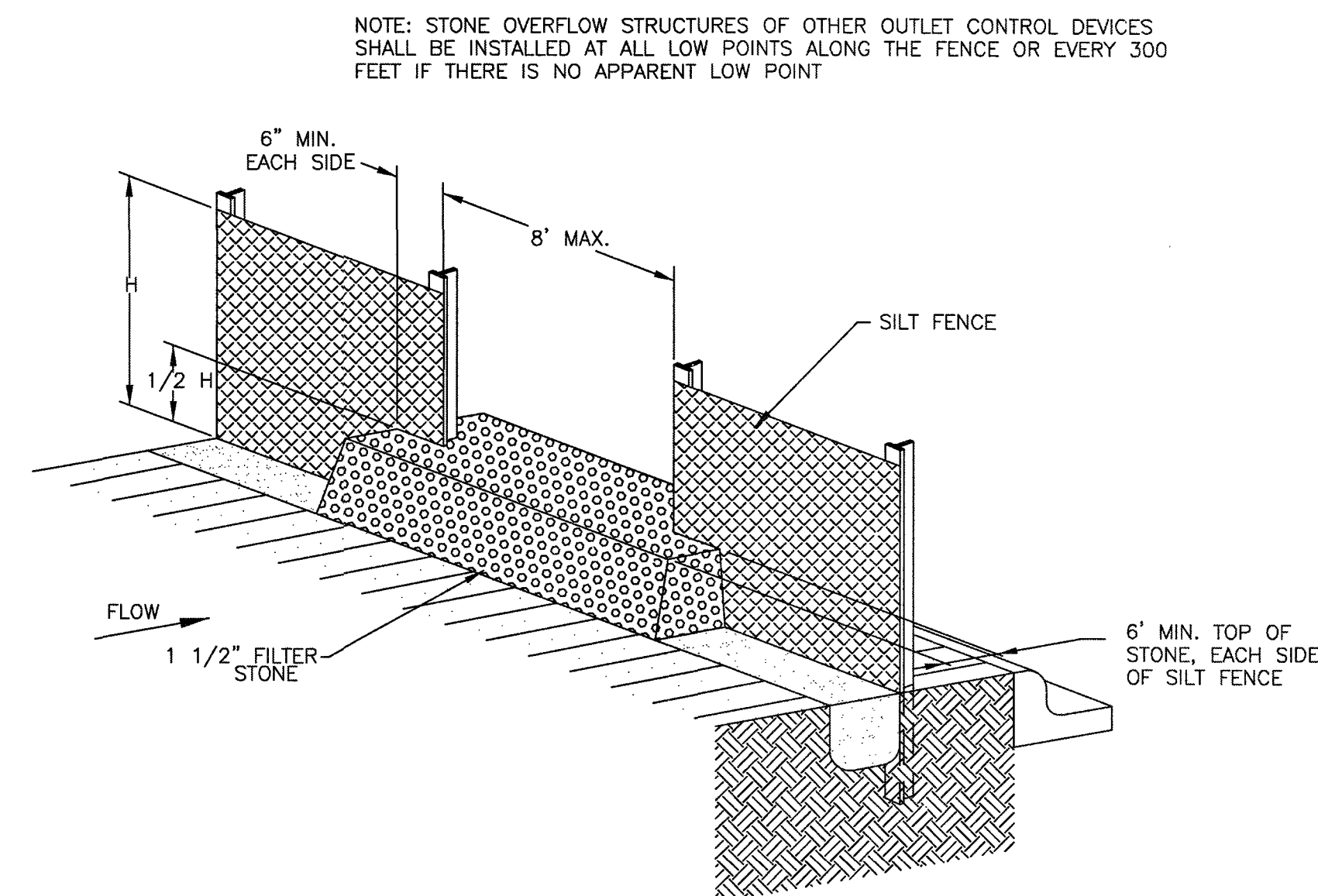
FILTER FABRIC WYE INLET PROTECTION
N.T.S.



ISOMETRIC PLAN VIEW
N.T.S.

- SILT FENCE GENERAL NOTES

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, TO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE IN SUCH A MANNER AS NOT TO CONTRIBUTE TO ADDITIONAL SILTATION.



SILT FENCE
STONE OVERFLOW STRUCTURE
N.T.S.

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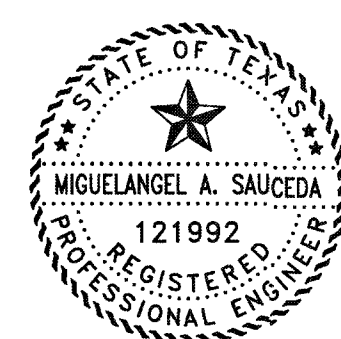
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4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



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this document was
authorized by
Miguelangel A. Saucedo
P.E. 121992



Date: 11/22/21

OWNER:

DAVID ROGERS
ADOBE HOLDINGS INC. 1800 AUGUSTA
DRIVE, SUITE 340
HOUSTON TX. 77057

PLAN: _____
 PROFILE: _____
 HORIZONTAL: _____
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PROFILE

HORIZONTAL:

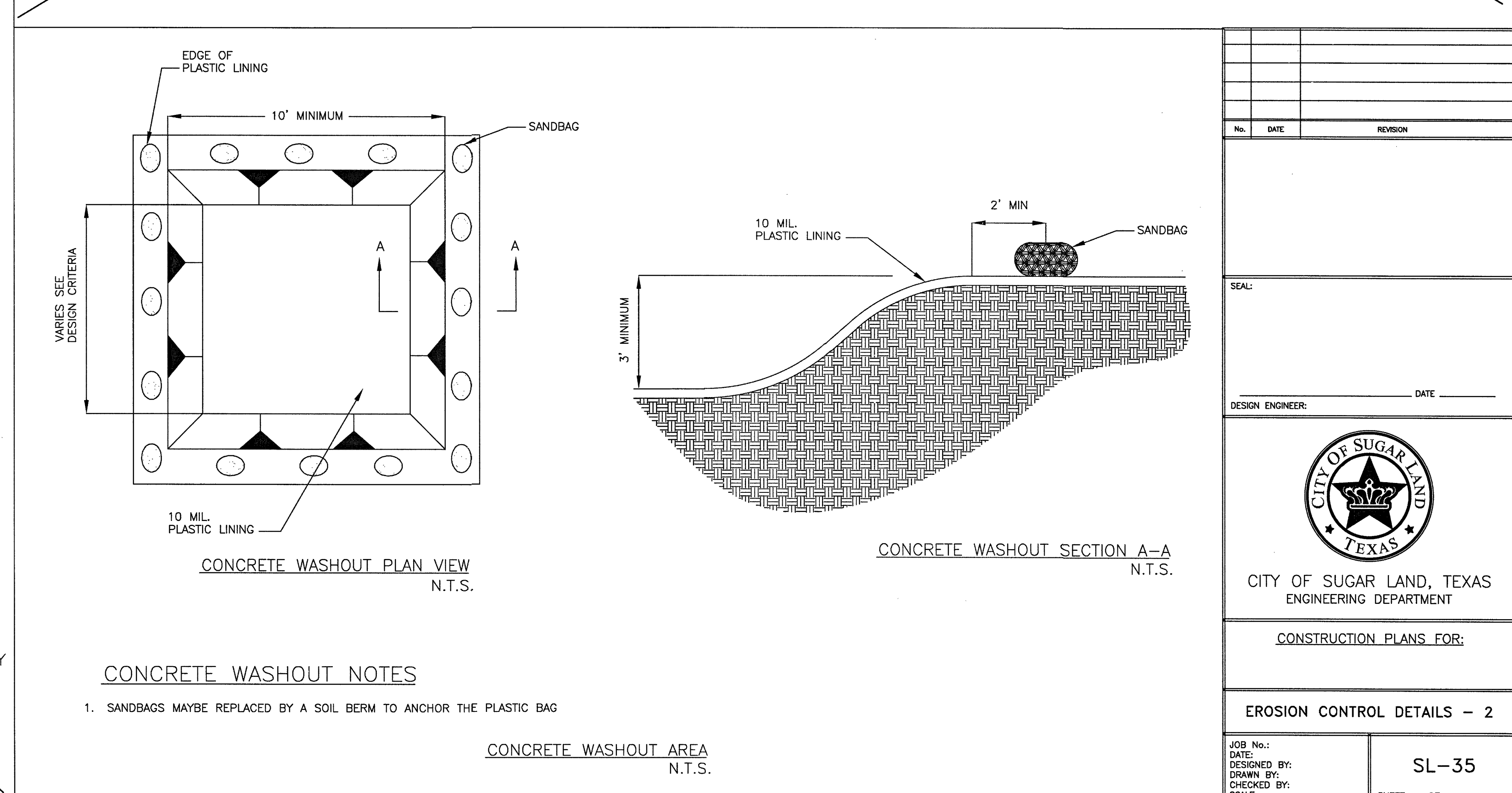
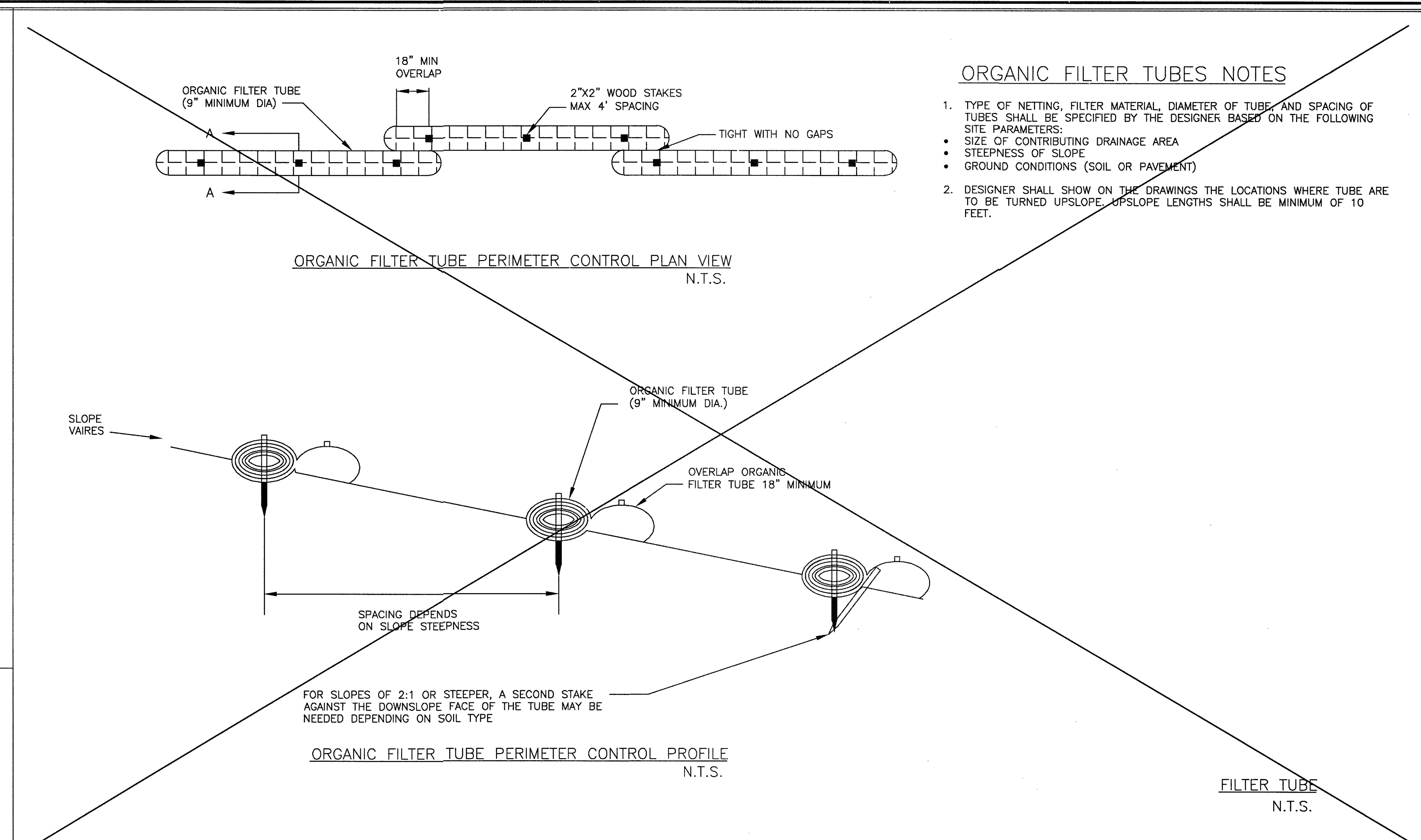
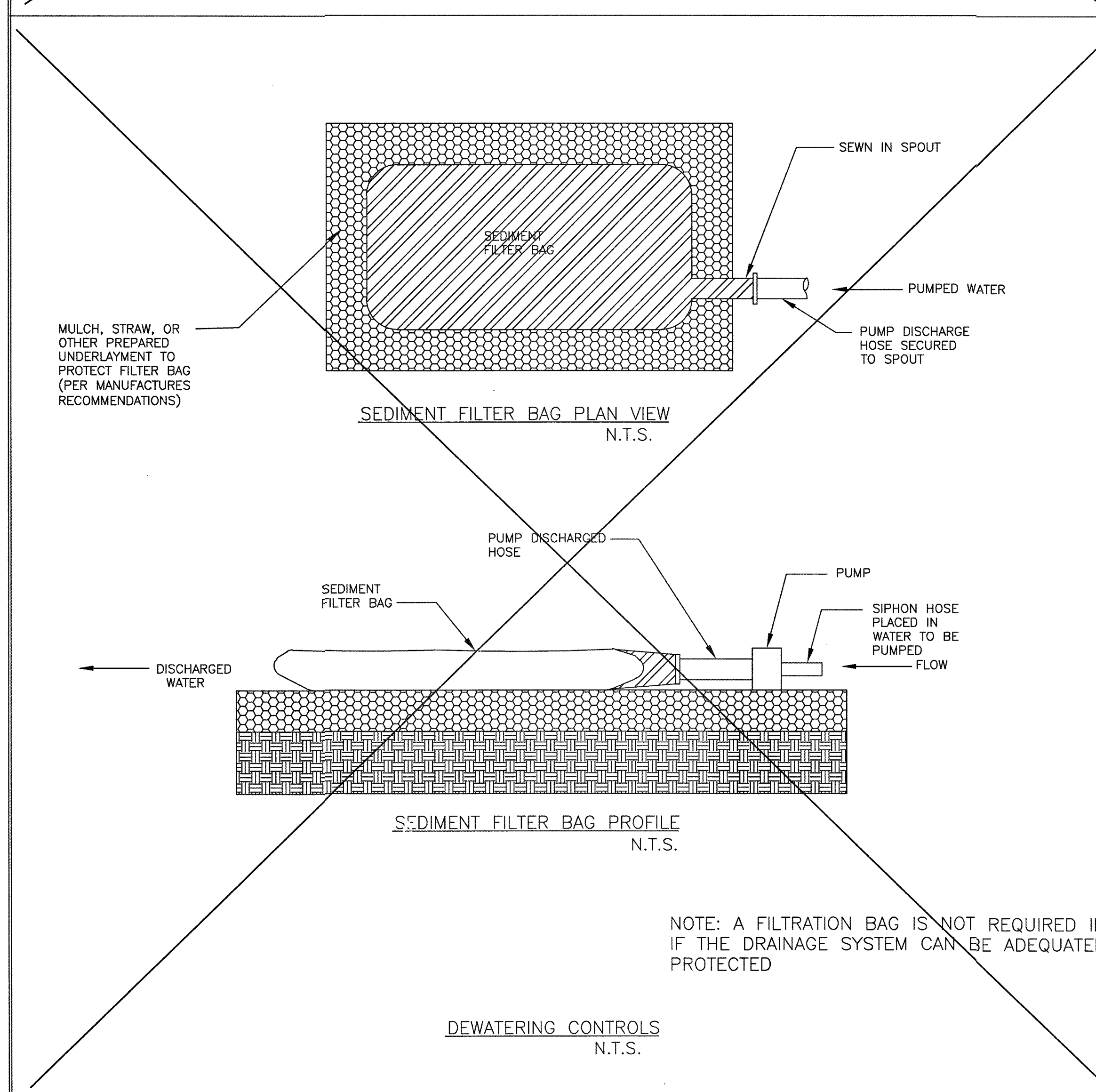
VERTICAL

GIFFORD MEADOWS
A 17.37 AC, 85-LOT SUBDIVISION
ANGLETON, TEXAS 77515

EROSION CONTROL
DETAILS - 1
SL-34

PROJECT NO. 13743

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No.	DATE			REVISION			
SEAL:							