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CITY OF ANGLETON

CITY COUNCIL

MAYOR JASON PEREZ

CITY MANAGER CHRIS WHITTAKER

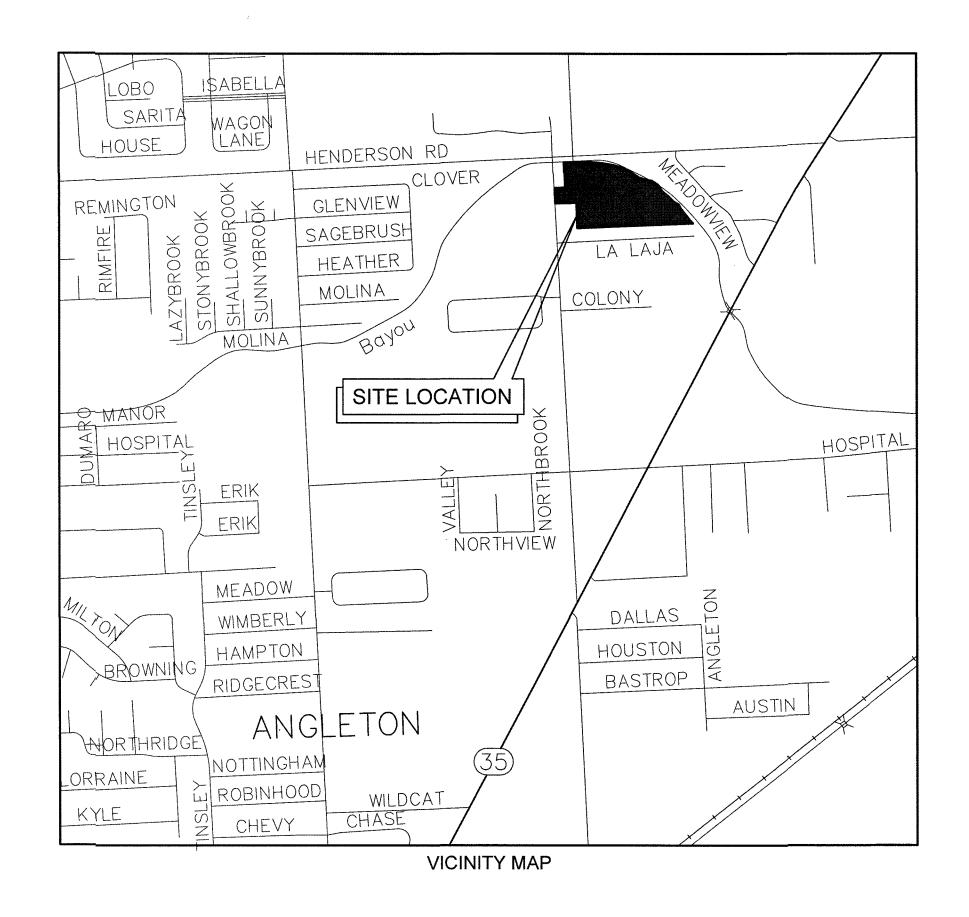
MIKEY SVOBODA CECIL BOOTH JOHN WRIGHT TRAVIS TOWNSEND MARK GONGORA

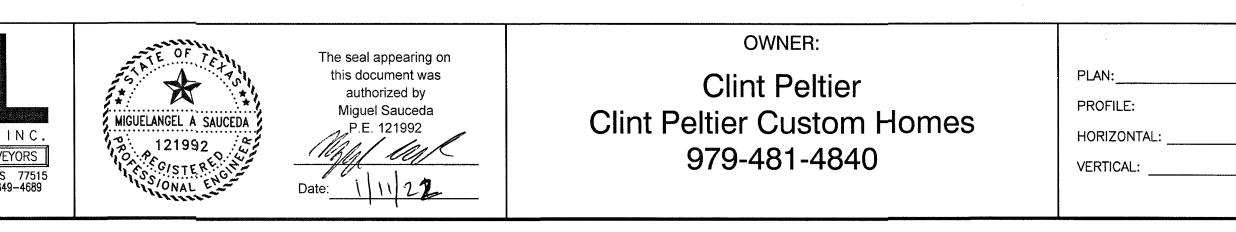
"Release of this application does not constitute a verification of all data, information and calculations supplied by the applicant. The engineer of record is solely responsible for the completeness, accuracy and adequacy of their submittal, whether or not the application is reviewed for Code compliance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

				DESIGNED MS DRAWN CHECKED	BAKER & LAWSON,
10.	DATE	DESCRIPTION	APPROVED		A
	<u> </u>	REVISIONS		DATE	ENGINEERS • PLANNERS • SURVE 300 E. CEDAR ST, ANGLETON, TEXAS PHONE: (979) 849–6681 FAX: (979) 849 REG. NO. F-825

PLANS FOR CONSTRUCTION OF PAVING, DRAINAGE AND UTILITIES ON BAYOU BEND ESTATES FOR THE CITY OF ANGLETON BRAZORIA COUNTY B&L JOB No. 13454





1800

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RECORD DRAWING

PROJECT NO. 13454

BAYOU BEND ESTATES ANGLETON, TEXAS PLANS FOR GRADING, PAVING, UTILITIES AND DETENTION

TITLE SHEET

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 PERSONNEL, 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 FEE 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. 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 RADII ARE TO BACK 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 2-FOOT BACK OF PROPOSED CURB OR EDGE OF PAVEMENT. EXCESS LIME STABILIZED SOIL SHALL BE UTILIZED IN THE PREPARATION OF SUBGRADE FOR DRIVEWAYS. 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, SANITARY SEWER 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 AT 50 FT MAX SPACING O.C.) AND APPROVED BY THE ENGINEER BEFORE LIME IS APPLIED.

- 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 CONCRETE AND LOADED HAUL TRUCKS ARE STRICTLY PROHIBITED ON COMPLETED AREAS FOR APPROVAL A SECOND TIME.
- 14. FORMS SHALL BE EITHER WOOD OR STEEL, OF GOOD QUALITY, FREE OF WARP AND POUR. METAL STAKES ARE APPROVED FOR USE TO STAKE METAL KEYWAYS.
- 15. REINFORCING SHALL BE SECURELY TIED AT ALL INTERSECTIONS AND SPLICES. ALL DOWELS USE. PLASTIC CHAIR OF THE CORRECT HEIGHT SHALL BE USED. SPACING SHALL BE SUFFICIENT TO SUPPORT REINFORCEMENT.
- PRIOR TO CONCRETE PLACEMENT.
- CONCRETE SHALL BE PLACED IN SUCH A MANNER AS TO REQUIRE AS LITTLE HANDLING AS REQUIRED BY THE APPLICATION AND DIRECTED BY THE ENGINEER.
- SHALL CONFORM TO ASTM C 618, CLASS C.
- OF ONE GALLON PER TWO HUNDRED (200) SQUARE FEET.
- 20. EXPANSION JOINTS SHALL BE BLAST CLEANED, WIRE BRUSHED, BLOWN OR FLAME DRIED SEALED (2) COMPONENT POLYMERIC SELF LEVELING COLD APPLIED SEALANT.
- DEPARTMENT.
- SMALL AGGREGATE BATCH DESIGN.
- BY A GEOTECHNICAL LAB AND SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY ENGINEERING/PUBLIC WORKS DEPARTMENT PRIOR TO PAVING OPERATIONS.
- PAVING REMOVAL PAY ITEM REQUIRING IT.
- DIRECTLY BEHIND CURBS IN LIEU OF SOD.
- CONCRETE SHALL BE PLACED WHEN THE CONCRETE TEMPERATURE IS ABOVE 100°F. UNPREDICTED RAINS.
- WASTEWATER CONSTRUCTION NOTES CITY OF ANGLETON.
- 2. SEPARATION DISTANCES FOR ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE CRITERIA FOR SEWAGE SYSTEMS "SECTION 317.20," LATEST PRINTING.
- AND CULVERTS, UNLESS OTHERWISE NOTED.
- SEWER IN APPROPRIATE SIZES.
- TRENCH CONDITIONS.
- 7. TOP OF SUBGRADE WITH COMPACTED CEMENT STABILIZED SAND.
- SHALL BE AS ESTABLISHED BY TNRCC. CONTRACTOR TO PROVIDE TEST PLUGS AND RISERS. NO SEPARATE PAY.

				DESIGNED MS	
				DRAWN	
NO.	DATE	DESCRIPTION	APPROVED	CHECKED	BAKER & LAWSON, INC. ENGINEERS • PLANNERS • SURVEYORS
		REVISIONS		DATE	300 E. CEDAR ST, ANGLETON, TEXAS 77511 PHONE: (979) 849–6681 FAX: (979) 849–4689 REG. NO. F—825
					NEG. NO. 1-825

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. WATER SHALL BE ADDED TO THE LIME STABILIZED SUBGRADE AND SHALL BE BROUGHT TO THE OPTIMUM MOISTURE CONTENT DURING THE FIRST MIXING OPERATIONS. LIME STABILIZED SHALL BE KEPT MOIST AND 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

COURSES. 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. UNLESS THE TRAVELED AREA REGARDLESS OF CONDITION IS REMIXED COMPACTED AND TESTED

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

SHALL BE SECURELY TIED. REINFORCEMENT SHALL BE CLEAN AND FREE OF RUST AT TIME OF

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.

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. 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)

18. FLY ASH SHALL MAKE UP FROM 20-25% BY VOLUME OF THE SPECIFIED CEMENT VOLUME AND

19. CURING COMPOUND SHALL BE TYPE II WITH WHITE PIGMENT. APPLIED AT THE UNDILUTED RATE

WITH AN APPROVED LIST RUBBERIZED HOT LAID ASPHALT JOINT AND CRACK SEALANT OR A TWO

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

22. CONCRETE FOR CURB SHALL BE A 3000 P.S.I. PERFORMANCE STRENGTH CONCRETE WITH A MINIMUM FIVE (5) SACK CEMENT PER CUBIC YARD CONTENT. CURB CONCRETE MIX MAY BE A

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

24. ALL PAVEMENT SAW CUT REQUIRED IN THE PLANS SHALL BE CONSIDERED SUBSIDIARY TO THE

25. BLOCK SOD SHALL BE PLACED 16" (ONE BLOCK WIDTH) WIDE ALONG THE EDGE OF ALL NEWLY CONSTRUCTED CURBS AND TO DRIVEWAY REPLACEMENT LIMITS. SILT FENCING MAY BE PLACED

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 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

1. CONTRACTOR SHALL PROVIDE RECORD OF LOCATION OF ALL STACKS, STUBS, LEADS, ETC. TO

GOVERNED BY THE "TEXAS NATURAL RESOURCE CONSERVATION COMMISSION RULES AND REGULATIONS FOR DESIGN CONSERVATION COMMISSION RULES AND REGULATIONS FOR DESIGN

3. MAINTAIN 12-INCH MINIMUM VERTICAL CLEARANCE AT CROSSINGS BETWEEN SANITARY SEWERS

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

5. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE UPON ENCOUNTERING ANY UNSUITABLE

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. SANITARY SEWER LEADS LESS THAN 2 FT BELOW PAVING TO BE INSTALLED AFTER LIME STABILIZATION IS COMPLETE. SANITARY SEWER LEADS TO BE BEDDED AND BACKFILLED TO

LOW PRESSURE AIR TEST SHALL BE CONDUCTED PER TNRCC TAC 317.2, HOLDING TIMES

- 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 AVAIL 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

- CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURE AS 1. 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.
- 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.
- 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. TYPICAL BEDDING AND BACKFILL TO BE 6" MECHANCIALLY COMPACTED BANK SAND. PROVIDE UNIFORM GRADE FOR BEDDING TO PROVIDE FULL BEDDING OF WATER LINE.
- PROVIDE A MINIMUM SIX-INCHES (6") OF CLEARANCE AT STORM SEWER AND WATER LINE 5. CROSSINGS.
- 4-INCH THROUGH 12-INCH LINES TO HAVE A MINIMUM OF 4'-O" COVER BELOW TOP OF CURB. UNLESS OTHERWISE NOTED, VARY FLOW LINE UNIFORMLY FROM DEPTH SHOWN ON PLANS
- 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. PROVIDE 4" X 16" X 16" PRECAST CONC PAD BLOCK UNDER FIRE HYDRANT. INSTALL 2 C.F. PEA GRAVEL AROUND WEEP HOLES OF FIRE HYDRANT
- WHERE WATER LINE CROSSES SANITARY SEWER LINE OR LEAD WITH LESS THAN NINE FEET (9') VERTICAL SEPARATION, PROVIDE ONE MINIMUM 18-FOOT STEEL CASING OVER THE WATER LINE CENTERED ON SANITARY MAIN. BID STEEL CASINGS AS A SEPARATE LINE LINE PER CROSSING.
- THE CONTRACTOR AT ALL TIMES PROVIDE MAXIMUM UNINTERRUPTED FLOW TO ALL SERVICES AND MAINS AND SHALL AVAIL OF ANY ROUTING METHOD AND EQUIPMENT TO ACCOMPLISH THIS.

<u>CENTERPOINT ENERGY / ENTEX NOTES</u>

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.

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.

X MIGUELANGEL A SAUCEDA 121992 /EYORS S 77515 349-4689 GISTERE ίοναι

The seal appearing on Date:

this document was authorized by Miguel Sauceda P.E. 121992 NAN M

OWNER:

Clint Peltier Clint Peltier Custom Homes 979-481-4840

PLAN: **PROFILE:** HORIZONTAL: VERTICAL:

- FNGINFFR.
- STANDARDS

- OF ANY BLASTING.
- VERIFIED BY THE PUBLIC WORKS DEPARTMENT.

- CONSTRUCTION
- NOTED
- NORTH, SOUTH, EAST, OR WEST SIDE).
- CURBS.

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. 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.

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.

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.

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

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

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 CONVENE 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

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

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:

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

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

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.,

f. A CURB LAY DOWN WHERE REQUIRED WHEN ALL POINTS OF SIDEWALKS INTERSECTS

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.

DELIVER STORM SEWER CUT SHEETS TO THE CITY ENGINEER.

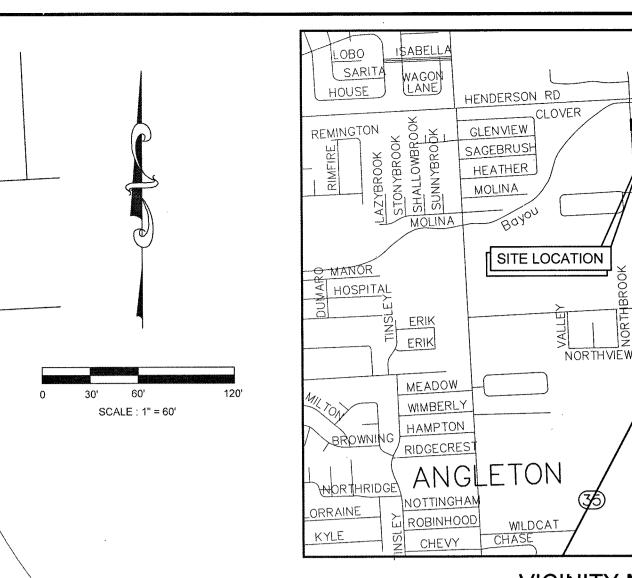
COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED.

RECORD DRAWING

BAYOU BEND ESTATES ANGLETON, TEXAS PLANS FOR **GRADING, PAVING, UTILITIES** AND DETENTION

CONSTRUCTION NOTES





8

22

REMOVE 60 LF 42" CMP FL (W)= 20.49 FL (E)= 14.90

20

21

VICINITY MAP

LA LAJA

DALLAS

HOUSTON

BASTROP

AUSTIN

HOSPIT

COLONY

FLOOD ZONE STATEMENT

10

23

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP No. 48539C0435K EFFECTIVE DECEMBER 30, 2020, THE SITE LIES PARTIALLY IN ZONE "AE" BASE FLOOD ELEVATION OF 22.0 FT, AREAS WITHIN THE 1% ANNUAL CHANCE FLOOD. THE ZONE "AE" AREA LIES FULLY WITHIN THE TOP BANK (EL. $=26.5'\pm$) OF BRUSHY BAYOU.

THE SHOWN BEE BOUNDARY WAS PROVIDED BY THE FEMA GIS FLOOD MAP CENTER AND MAY NOT ACCURATELY REFLECT SITE TOPOGRAPHY.

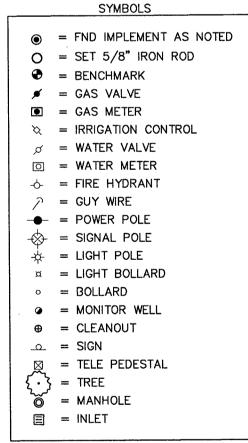
PROJECT BENCHMARK: NGS MONUMENT R1182 (PID AW1171) A BRASS DISK STAMPED R1182, ON THE NORTH LINE OF CR 171, ON THE CURB OF A BRIDGE, APPROXIMATELY 275 SOUTHWEST OF INTERSECTION WITH CR 428.

ELEVATION = 26.31 FEET NGVD29SITE BENCHMARK: HERITAGE PARK TBM-A CHISELED SQUARE ON CURB INLET ON THE SOUTH SIDE OF BAYOU BEND BLVD, WEST OF CULVERT, AND 215 FEET EAST OF BUCHTA ROAD. ELEVATION = 26.08 NGVD1929

TBM-B CHISELED SQUARE ON CURB INLET ON SOUTH SIDE OF BAYOU BEND BOULEVARD, AND 135 FEET EAST OF BUCHTA ROAD. ELEVATION = 26.61 NGVD1929

TBM-C CHISELED SQUARE ON CURB INLET ON SOUTH SIDE OF BAYOU BEND BOULEVARD, AT THROAT OF CUL-DE-SAC. ELEVATION = 26.82NGVD1929

ALL COORDINATES SHOWN HEREON ARE IN GRID, BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, (NAD83) SOUTH CENTRAL ZONE, PER GPS OBSERVATIONS. //\0



LEGEND: EXISTING OVERFLOW PATH

EXISTING NATURAL GROUND ELEV.

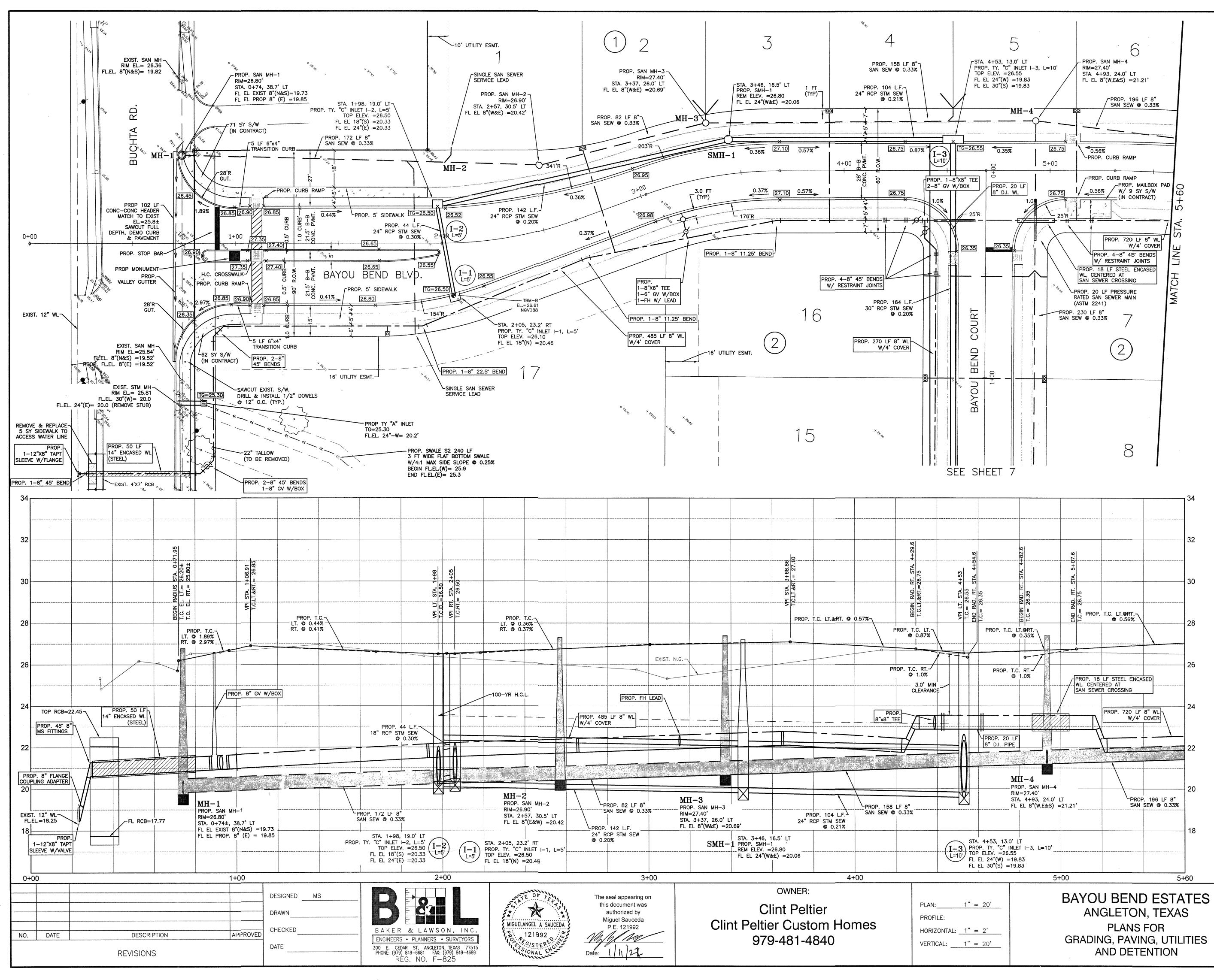
RECORD DRAWING

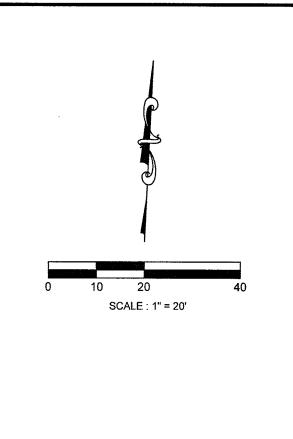
EXISTING CONDITIONS



3

BAYOU BEND ESTATES ANGLETON, TEXAS PLANS FOR GRADING, PAVING, UTILITIES AND DETENTION





SYMBOLS LEGEND

OSINGLE WATER METERODOUBLE WATER METER

_...

FIRE HYDRANT
 WATER VALVE

TAPPING SLEEVE AND VALVE

60

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STORM SEWER MANHOLE (SMH-1)

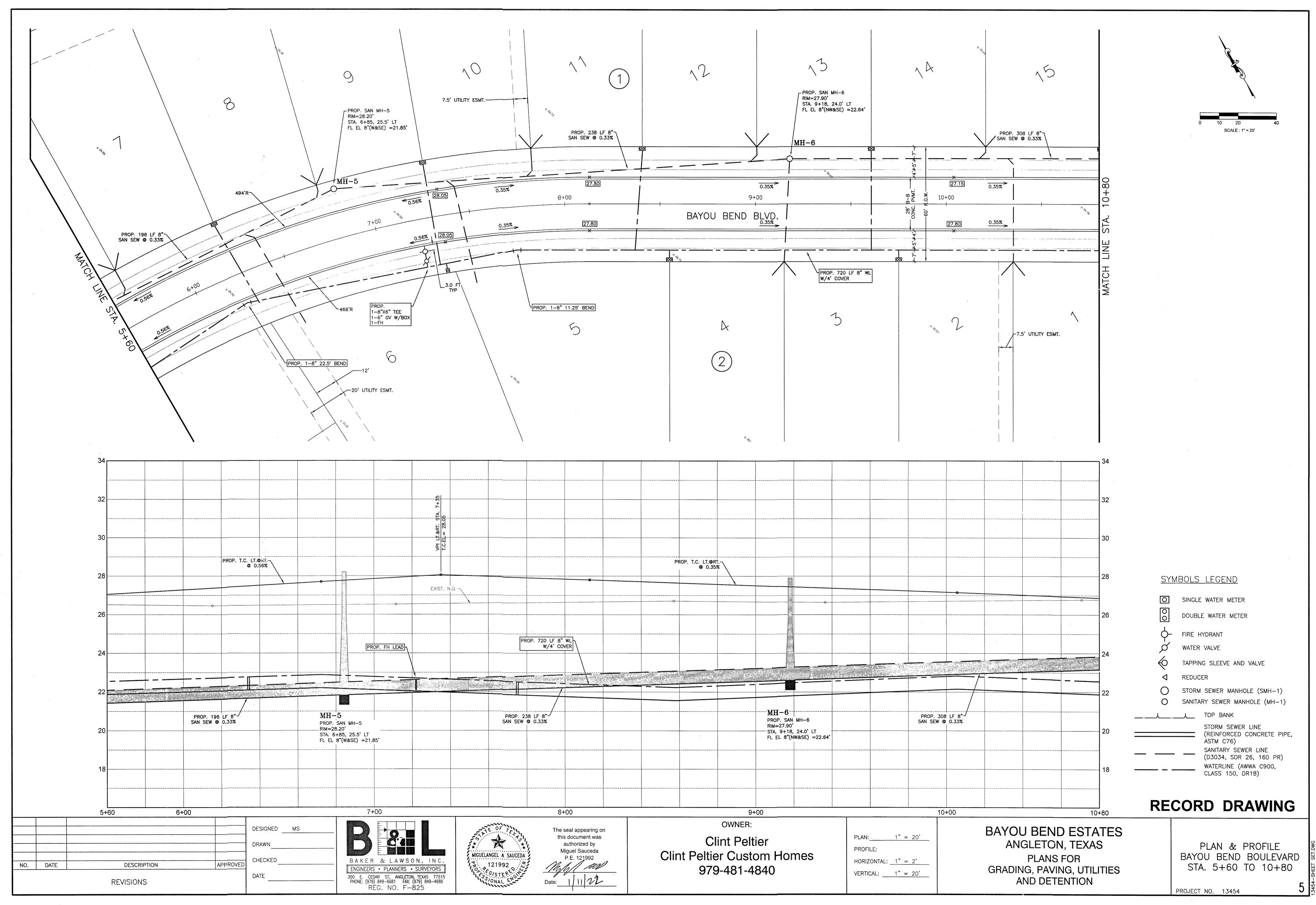
SANITARY SEWER MANHOLE (MH-1)

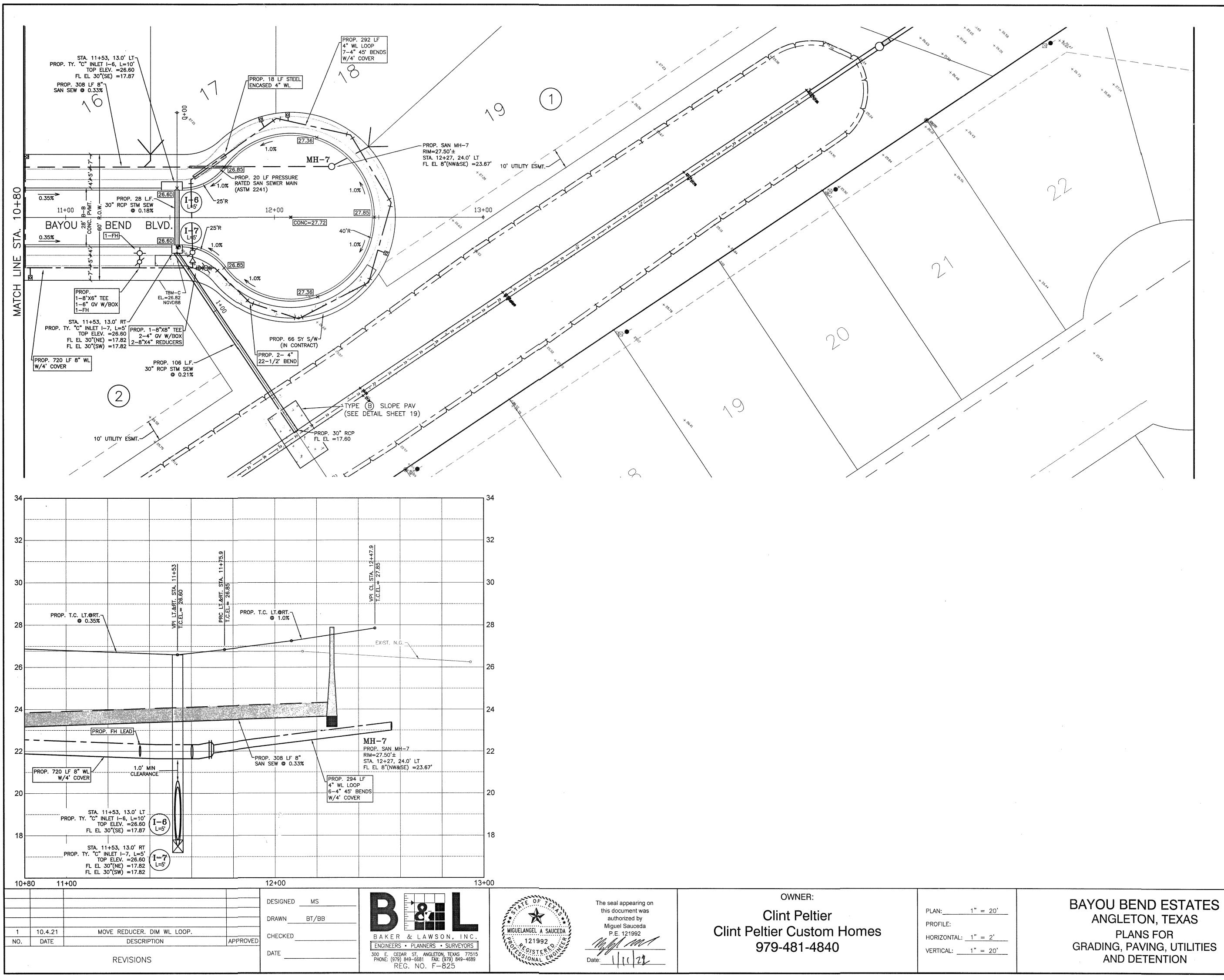
_____ TOP BANK STORM SEWER LINE

(REINFORCED CONCRETE PIPE, ASTM C76) SANITARY SEWER LINE (D3034, SDR 26, 160 PR) WATERLINE (AWWA C900, CLASS 150, DR18)

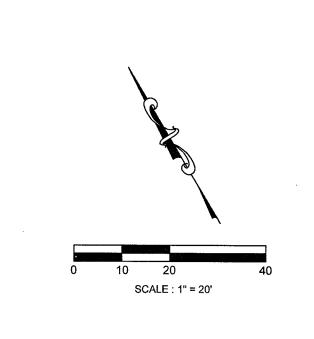
RECORD DRAWING

PLAN & PROFILE BAYOU BEND BOULEVARD STA. 0+00 TO 5+60





	32	
	30	
	28	
	26	
	24	
	22	
	20	
	18	
13-	+00	
		م میر



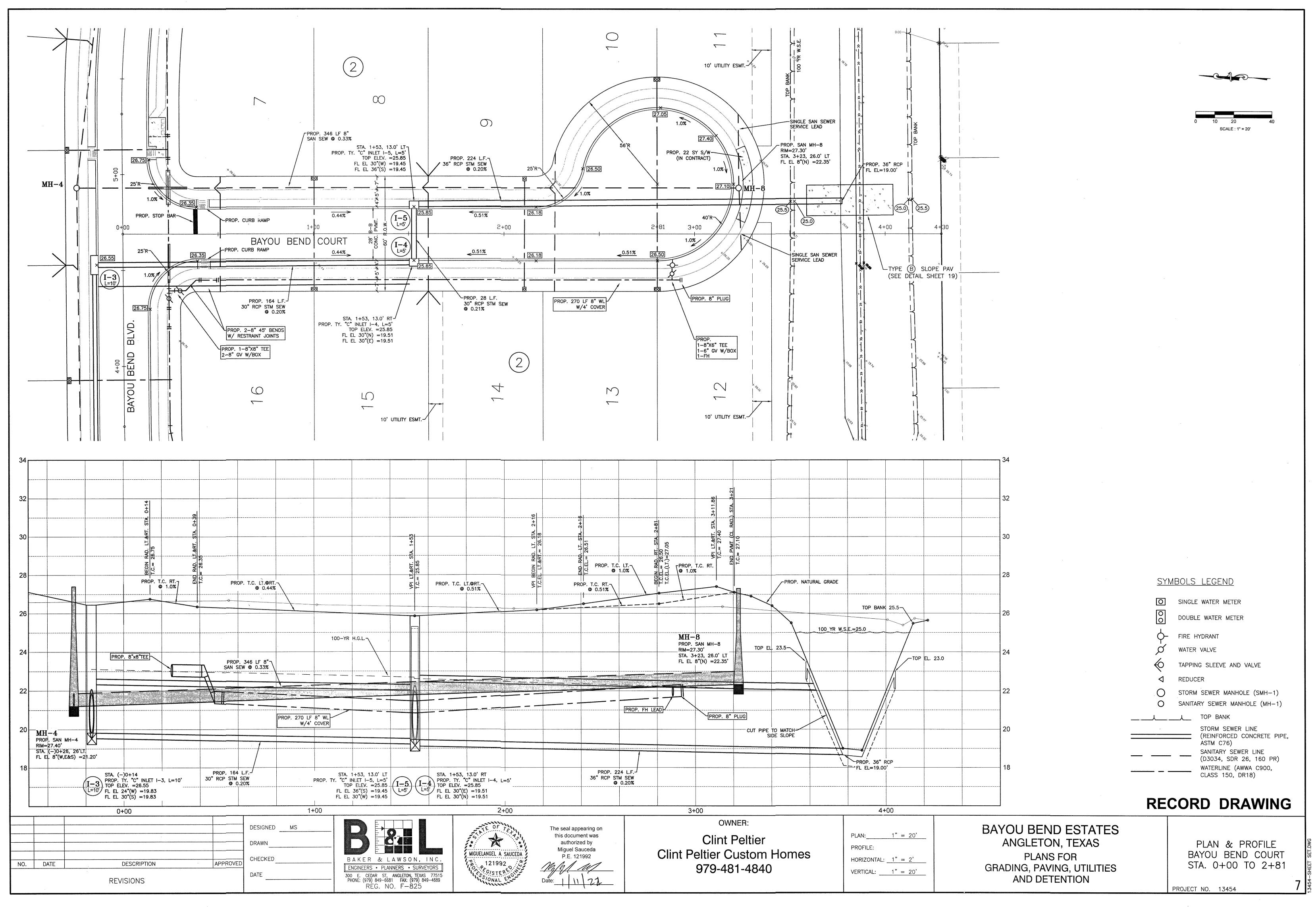
SYMBOLS LEGEND

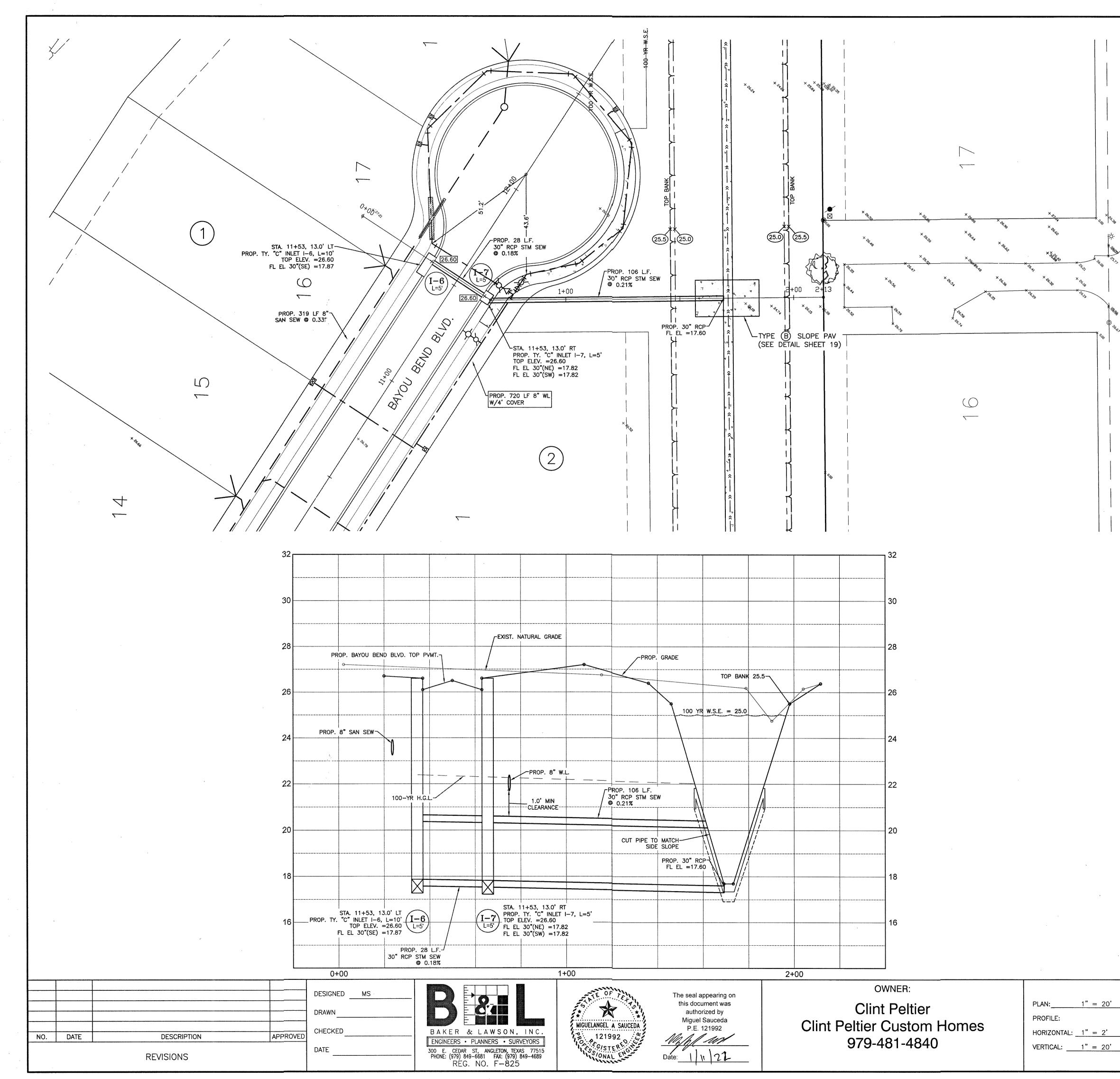
- 0 SINGLE WATER METER 0 0
- DOUBLE WATER METER
- O-FIRE HYDRANT
- C WATER VALVE
- \Diamond TAPPING SLEEVE AND VALVE
- 4 REDUCER
- Ο STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1) Ο TOP BANK
- STORM SEWER LINE
 - (REINFORCED CONCRETE PIPE, ASTM C76) SANITARY SEWER LINE (D3034, SDR 26, 160 PR) WATERLINE (AWWA C900, CLASS 150, DR18)

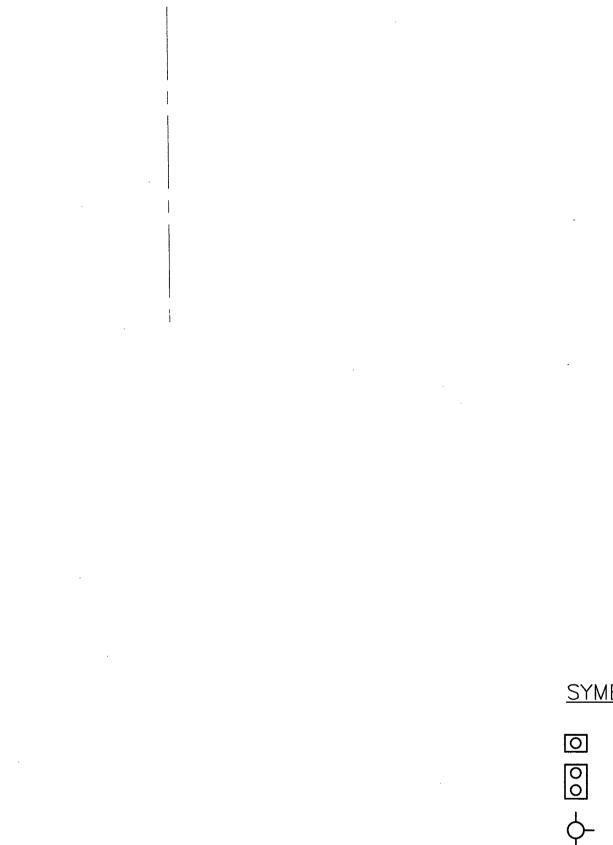
RECORD DRAWING

GRADING, PAVING, UTILITIES

PLAN & PROFILE BAYOU BEND BOULEVARD STA. 10+80 TO 13+00







SCALE : 1" = 20'

SYMBOLS LEGEND

O SINGLE WATER METER

DOUBLE WATER METER

FIRE HYDRANT

WATER VALVE

 \Diamond TAPPING SLEEVE AND VALVE

REDUCER 4

STORM SEWER MANHOLE (SMH-1)

SANITARY SEWER MANHOLE (MH-1) TOP BANK _____k____k___

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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

PROJECT NO. 13454

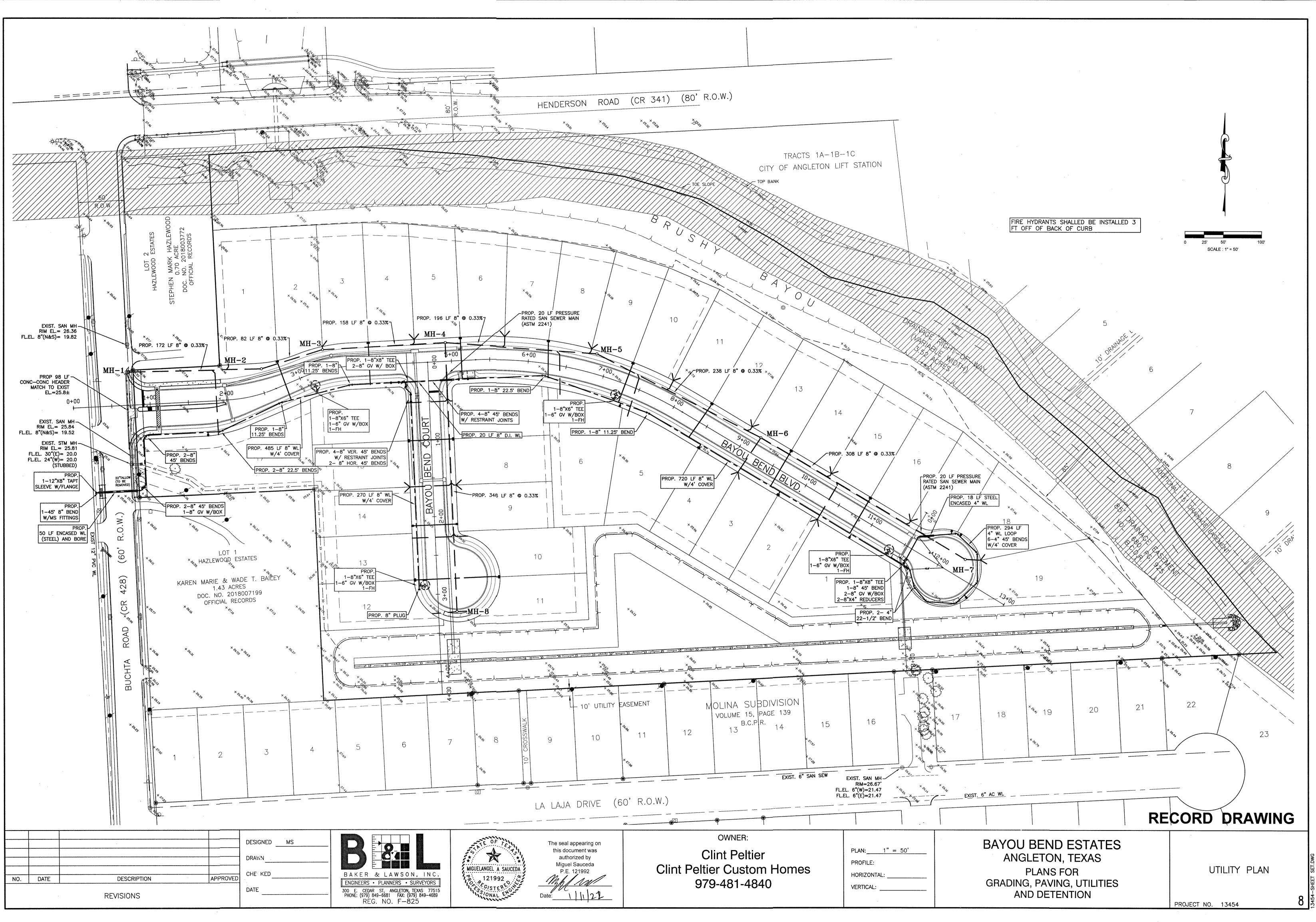
A BOR

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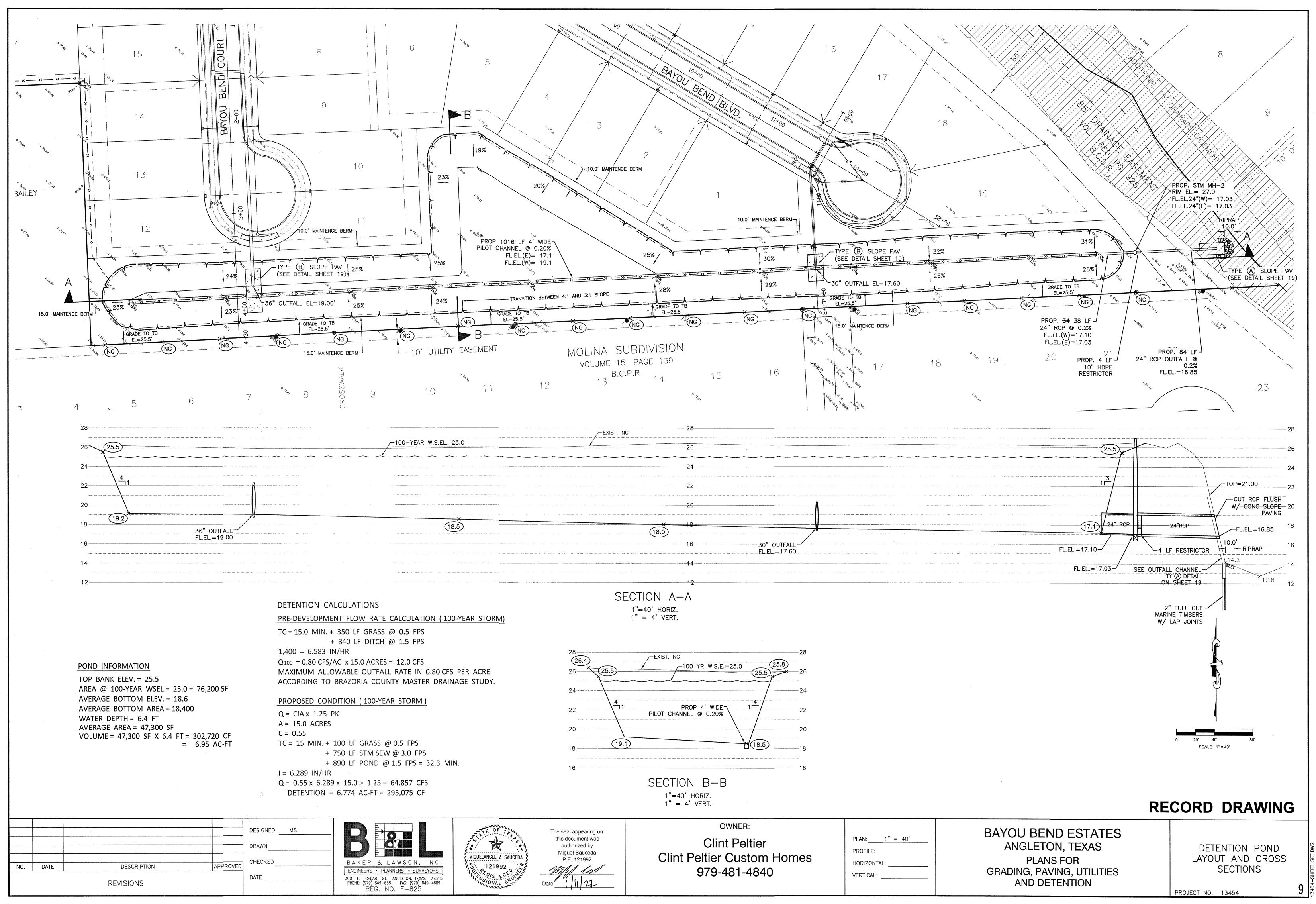
BAYOU BEND ESTATES ANGLETON, TEXAS PLANS FOR GRADING, PAVING, UTILITIES AND DETENTION

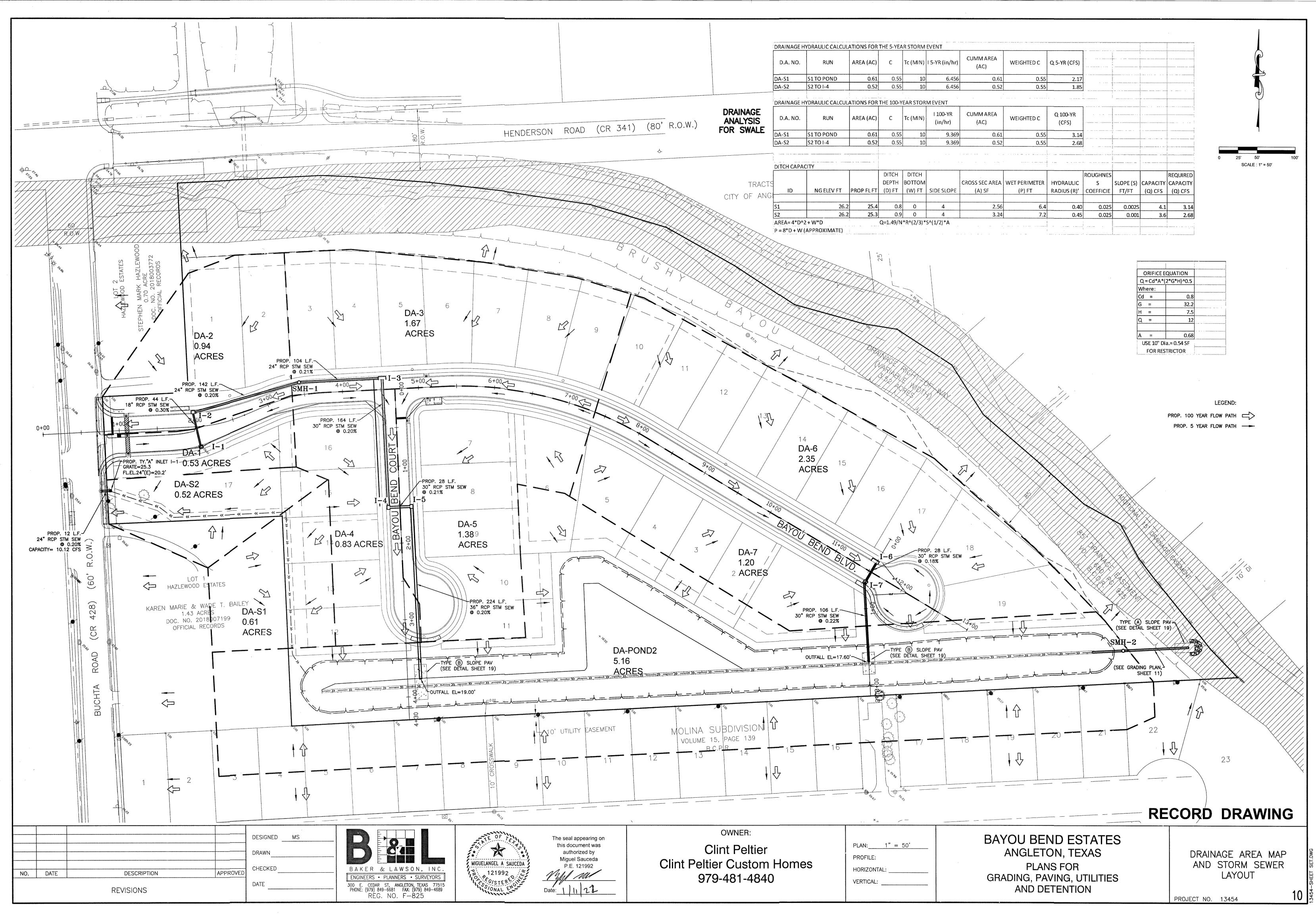
PLAN & PROFILE OUTFALL

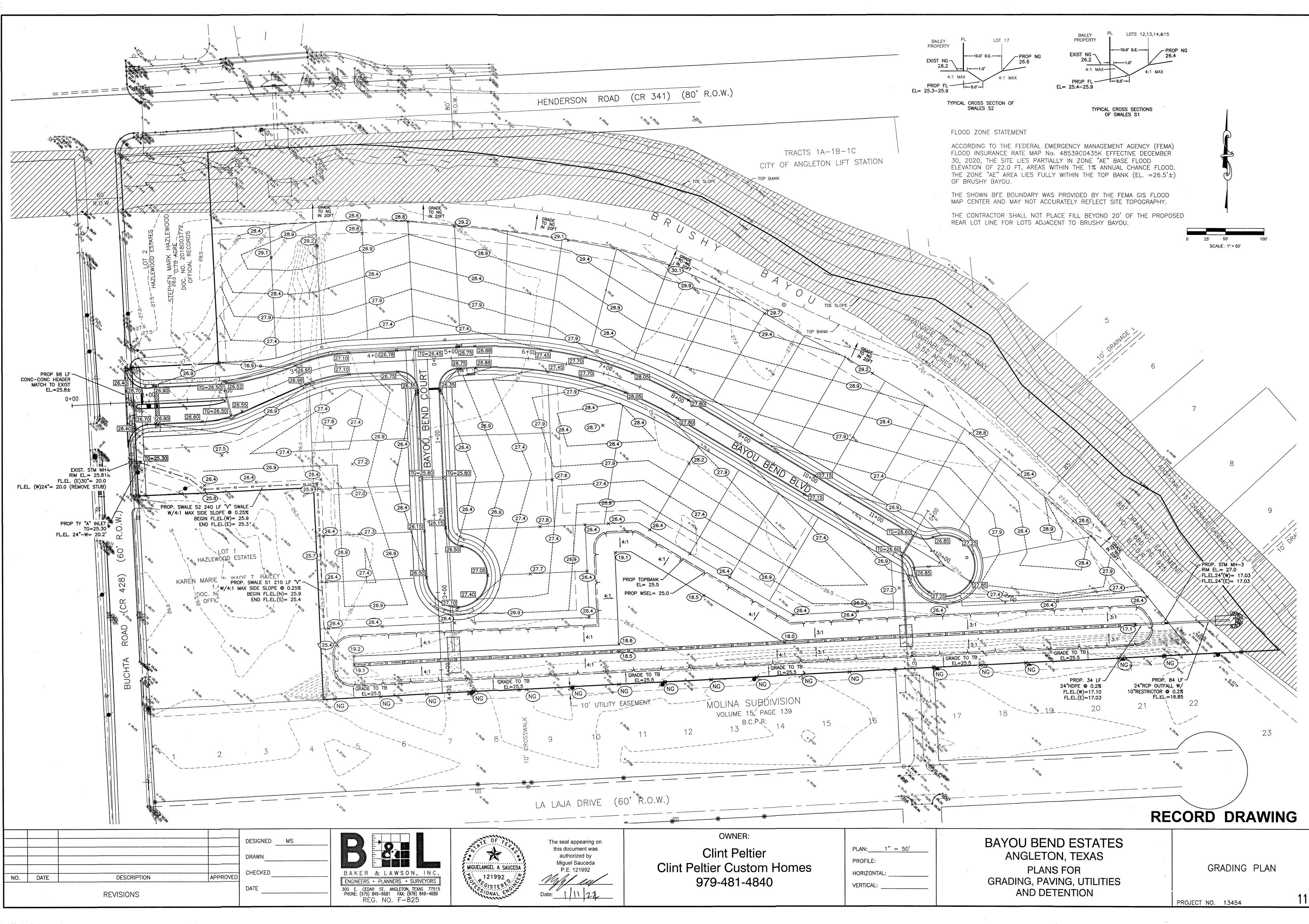
7A 1

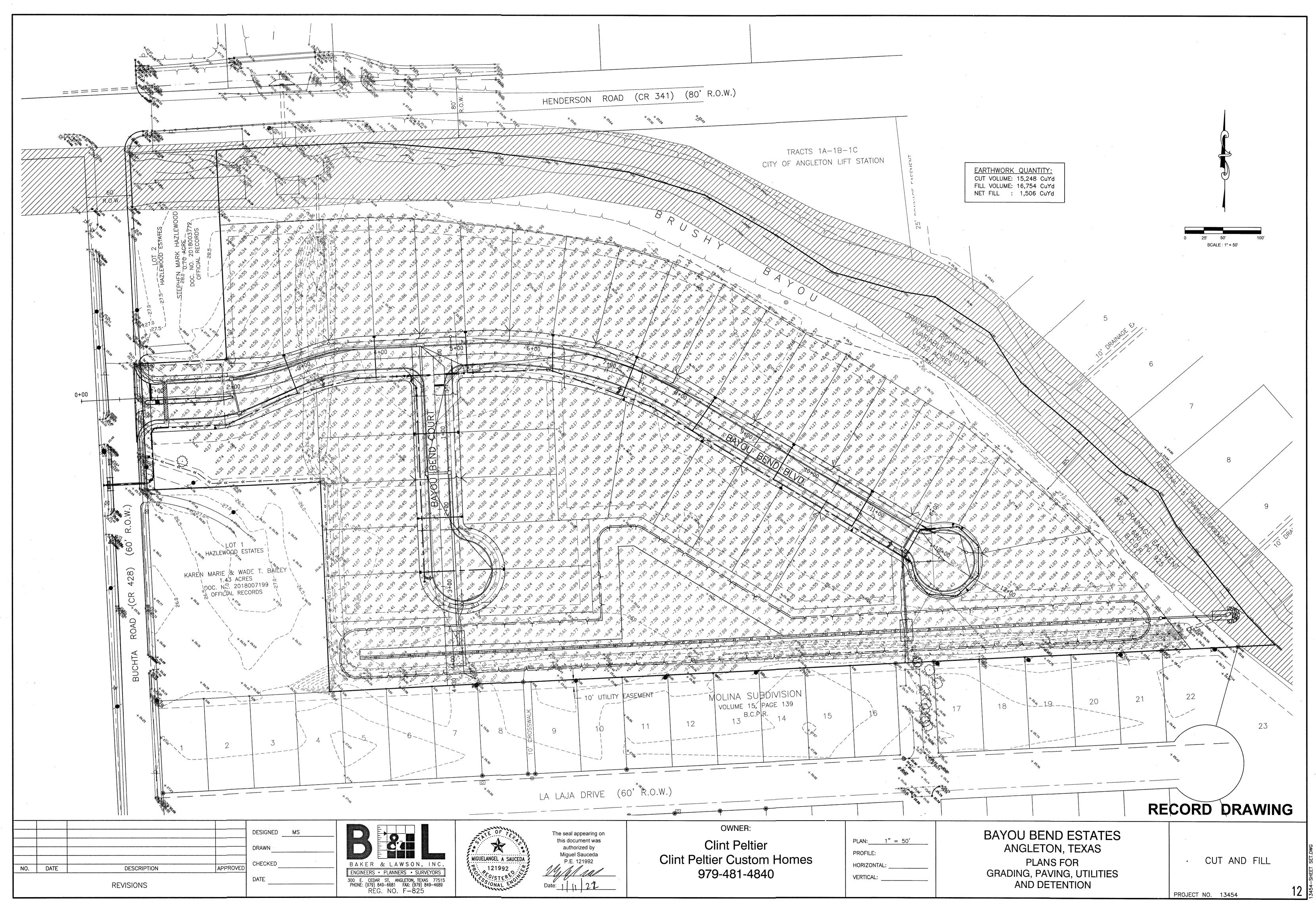


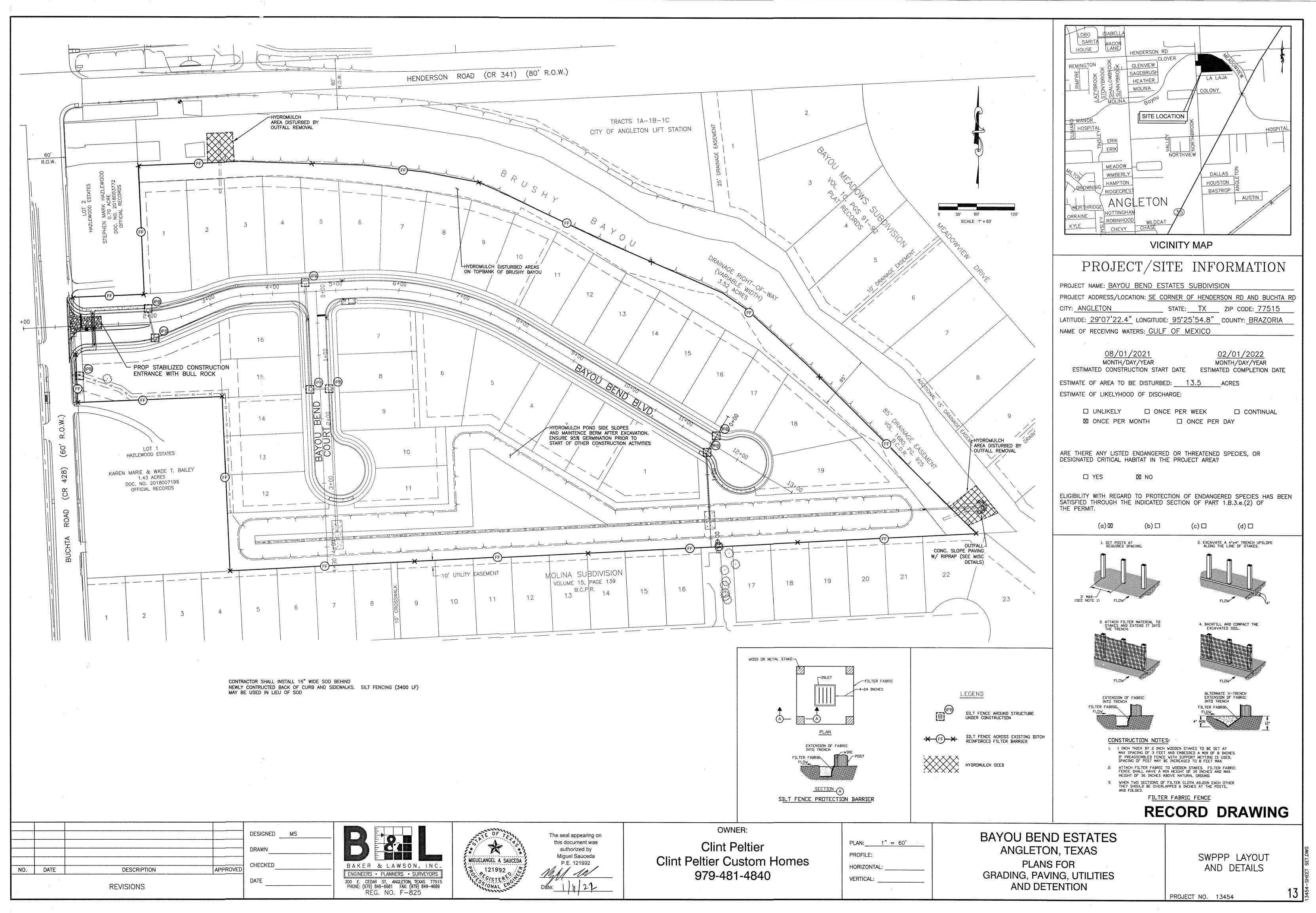












BAYOU BEND ESTATES SUBDIVISION ANGLETON, BRAZORIA COUNTY, TEXAS, BEING 13.5 ACRE DEVELOPED AREA WHICH WILL BE A RESIDENTIAL SUBDIVIISON OF 36 LOTS (60 FT WIDE MINIMUM). CONSTRUCTION WILL INCLUDE UNDERGROUND UTILTIES, STORM SEWER, CONCRETE ROADWAYS WITH 4" CURB, AND DETENTION POND.
B. INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: STREET RIGHT OF WAY AND LOT AREAS WILL BE STRIPPED OF ALL VEGETATIVE MATTER. THIS MATERIAL WILL BE STOCKPILED AT THE SITE TO BE SPREAD OVER THE LOTS AFTER FINAL GRADING. THE DETENTION POND WILL BE EXCAVATED AND MATERIAL WILL BE SPREAD ON THE SITE. UTILITY AND STORMSEWER WILL REQUIRE TRENCHING WITH SPOILS TO BE SPREAD ON THE LOTS. RAINFALL RUNOFF WILL BE DIRECTED TO THE STREET GUTTERS AND THE CONSTRUCTED STORM SEWER. TRUCKS WILL BE USED TO DELIVER MATERIALS TO THE SITE AND INCLUDE LIME, CONCRETE, AND PIPE. TRUCKS WILL ALSO BE USED TO HAUL MATERIAL AWAY FROM THE SITE. THE TRUCKS WILL BE ROUTEP ALONG BUCHTA ROAD FOR INGRESS AND EGRESS. RUTTING ON SITE DURING WET WEATHER WILL PROVIDE POTENTIAL FOR TRACKING MUD ALONG BUCHTA ROAD. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING MU TRACTED ONTO BUCHTA ROAD DAILY.
C. TOTAL PROJECT AREA: 15.87 ACRES
D. TOTAL AREA TO BE DISTURBED: 13.5 ACRES
WEIGHTED RUNOFF COEFFICIENT (BEFORE CONSTRUCTION): 0.30 (AFTER CONSTRUCTION): 0.55
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
DRAINAGE WILL BE COLLECTED IN THE PROPOSED DETENTION POND WHICH WILL DRAIN THRU
DRAINAGE WILL BE COLLECTED IN THE PROPOSED DETENTION POND WHICH WILL DRAIN THRU RESTRICTIVE OUTLET INTO BRUSHY BAYOU.
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 OFTHE PROJECT.
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 OFTHE PROJECT.
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DRAINAGE WILL BE COLLECTED IN THE PROPOSED DETENTION POND WHICH WILL DRAIN THRU RESTRICTIVE OUTLET INTO BRUSHY BAYOU.
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DRAINAGE WILL BE COLLECTED IN THE PROPOSED DETENTION POND WHICH WILL DRAIN THRU RESTRICTIVE OUTLET INTO BRUSHY BAYOU.

DESCRIPTION

REVISIONS

NO. DATE

APPROVED

CHECKED

DATE

2. CONTROLS

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

 INSTALL SILT FENCE ALONG THE PERIMETER OF THE WORK AREA. CONSTUCT THE STABILIZED CONSTRUCTION ENTRANCE.

STRIPPING OF ALL VEGETATION MAY BEGIN. REMOVED VEGETATION WILL BE STOCKPILED AT THE SITE.

2. CUT ALL PERIMETER SWALES SHOWN ON THE LOT GRADING PLAN. THE DETENTION POND WILL BE EXCAVATED AND SPOILS WILL BE SPREAD ON SITE. INSTALL THE RESTRICTIVE OUTLET TO THE POND. COVER THE OUTLET WITH A ROCK BERM. HYDROMULCH THE POND SIDE SLOPES.

3. INSTALL WATERLINE, SANITARY SEWER, SERVICE LEAD, STORM SEWER, INLETS, AND MANHOLES. PROVIDE INLET PROTECTION ON ALL INLETS. ALL SPOILS FROM TRENCHING WILL BE SPREAD ON THE ADJACENT LOTS.

4. BEGIN ROADWAY EXCAVATION, LIME STABILIZATION, AND CONCRETE PAVING.

5. INSTALL CONCRETE CURB. PLACE AN 16" WIDE STRIP OF SOD BEHIND THE CURB. FILTER FABRIC FENCE INSTALLED FLUSH WITH BACK OF CURB MAY BE USED IN LIEU OF SOD.

6. PERFORM FINAL GRADE ON LOTS. SPREAD STOCKPILED VEGETATIVE MATERIAL OVER LOTS. SEED AND FERITILIZED ALL AREAS 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: (RIP RAP)		X		

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		X		
HAYBALES		•		
ROCKBERMS		X		
DIVERSION, INTERCEPTOR, OR PERIMETER DIKES				
DIVERSION, INTERCEPTOR, OR PERIMETER SWALES		X		
DIVERSION DIKE AND SWALE COMBINATIONS				
PIPE SLOPE DRAINS				<u> </u>
ROCK BEDDING AT CONSTRUCTION EXIT		X		
TIMBER MATTING AT CONSTRUCTION EXIT				**** •* •* •* • • • •
SEDIMENT TRAPS (AT INLETS)		X		
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:



× MIGUELANGEL A SAUCEDA 121992

BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

300 E. CEDAR ST, ANGLETON, TEXAS 77515 PHONE: (979) 849-6681 FAX: (979) 849-4689 REG. NO. F-825

The seal appearing on this document was authorized by **Miguel Sauceda** P.E. 121992 Mappel and Date: 1/11/27

OWNER:
Clint Peltier
Clint Peltier Custom Homes
979-481-4840

NO	SOL

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.

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.

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

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

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

AND DETENTION

PLAN:

PROFILE:

HORIZONTAL:

VERTICAL:

C. OTHER CONTROLS

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.

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

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

3. MAINTENANCE

4. INSPECTION

5. NON-STORMWATER DISCHARGES

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

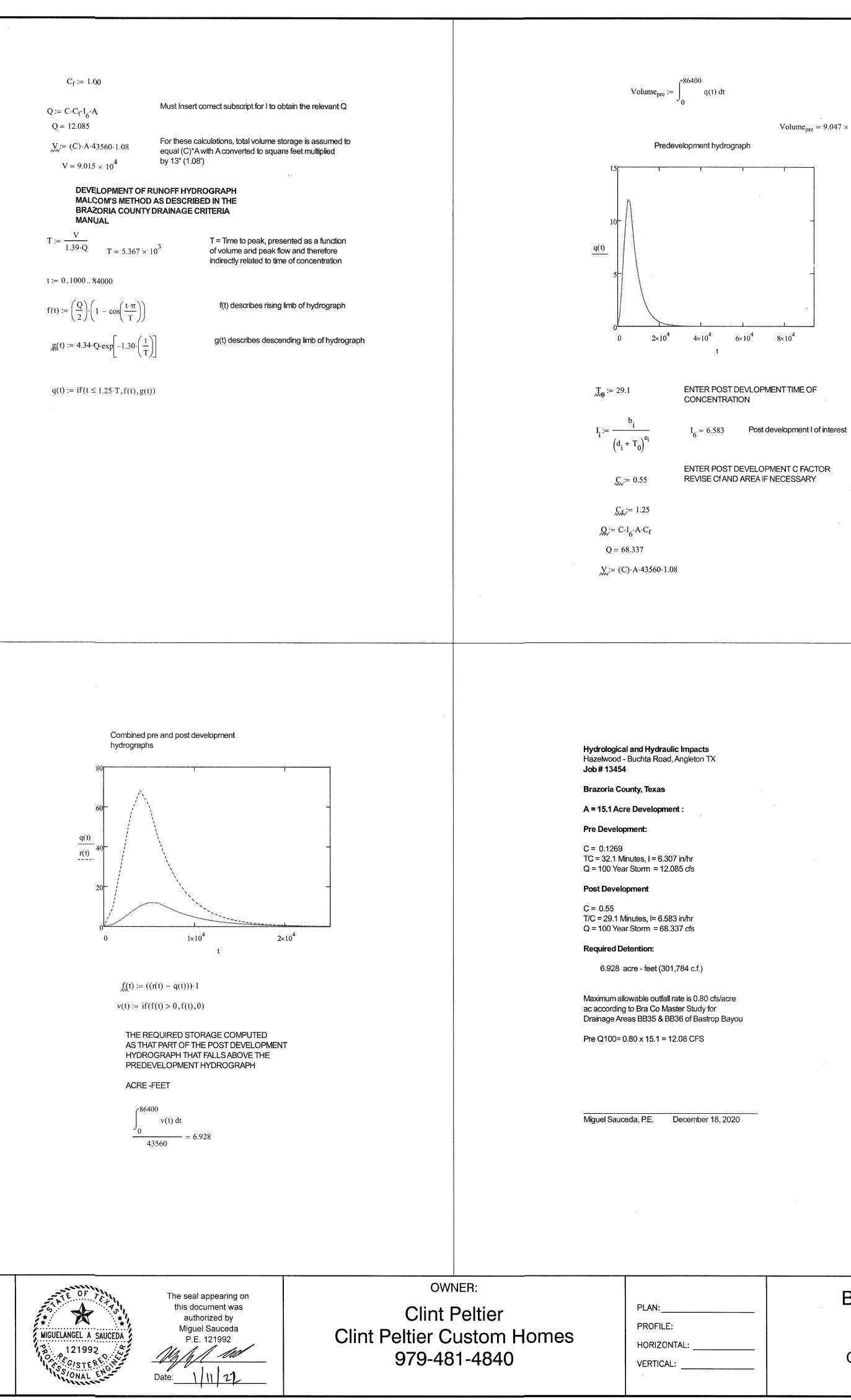
RECORD DRAWING

BAYOU BEND ESTATES				
ANGLETON, TEXAS	•			
PLANS FOR		-	SWPPP	NARR
GRADING, PAVING, UTILITIES				

PROJECT NO. 13454

RATIVE

	; T						
						4	
,				Drainage Analysis			
				Job # 13454 - Hazelwoo	d, Buchta Rd, An	gleton TX	
				Rainfall intensity calcula	ions for Brazor	ia County	
				l = intensity b = coefficie	(in/hr)		
					oncentration		
				e = coefficie			
				subscript	i =1 = 2year stor i =2 = 5 year sto	m rm	
					i=3 = 10 year st i=4 = 25 year st	rom	
					i =5 = 50 year st i =6 = 100 year s	orm	
-				i := 16			
				$b_i := e_i :=$ 75.5 0.807	d _i :=		
				82.8 0.775	14.7 16.9		
				88.1 0.756 100.8 0.753	18.4 19.1		
				107.3 0.742 120.2 0.741	19.8 21.3		
				$T_{M0} := 32.1$	ENTER PREDE	VELOPMENT	
					TIME OF CONC	ENTRATION	
				$I_{i} \coloneqq \frac{b_{i}}{\left(d_{i} + T_{0}\right)^{e_{i}}}$	$I_{-} = 6.30^{\circ}$	7 Predevelopment	
				$\left(d_{i} + T_{0} \right)^{e_{i}}$	-6	7 Predevelopment Intensity of interest	
	-						
						MENTCVALUE	
				A:= 15.1 ENTE	RAREA		
:							
۰.							
				$V = 3.907 \times 10^5$			
					13×10^3		
				A. 0.1000-05000			
				t := 0,100025000			
				$f(t) := \left(\frac{Q}{2}\right) \cdot \left(1 - \cos\left(\frac{t}{2}\right)\right)$	$\left(\frac{\pi}{\Gamma}\right)$		
· · · ·	£			$g(t) := 4.34 \cdot Q \cdot \exp\left[-1.2\right]$	$\left[\frac{1}{T}\right]$		
				$r(t) := if(t \le 1.25 \cdot T, f(t))$, g(t))		
					$\int_{-\pi(t)}^{86400} t(t) dt$		
				Volume _{post} :=	$\int_0 r(t) dt$		
					Volume _{post} =	3.921×10^5	
					Post developm		
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~				60-		-	
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						DESIGNED MS	
						DRAWN	
	NO.	DATE		DESCRIPTION	APPROVED	CHECKED	BAKER & LAWSON, INC.
			•			DATE	ENGINEERS • PLANNERS • SURVEYORS 300 E. CEDAR ST, ANGLETON, TEXAS 77515 PHONE: (270) 840-6681 EAY: (270) 846-669
				REVISIONS			300 E. CEDAR ST, ANGLETON, TEXAS 77515 PHONE: (979) 849–6681 FAX: (979) 849–4689 REG. NO. F—825



$Volume_{pre} = 9.047 \times 10^4$

BAYOU BEND ESTATES ANGLETON, TEXAS PLANS FOR GRADING, PAVING, UTILITIES AND DETENTION

RECORD DRAWING

HYDROLOGICAL CALCULATIONS 15 3454

WinStorm (STORM DRAIN DESIGN)

Version 3.05, Jan. 25, 2002 Run @ 6/17/2021 9:36:27 AM

.

PROJECT NAME : BAYOU BEND JOB NUMBER : 13454 PROJECT DESCRIPTION : DESIGN FREQUENCY : 5 Years ANALYSYS FREQUENCY : 100 Years MEASUREMENT UNITS: ENGLISH

> OUTPUT FOR DESIGN FREQUENCY of: 5 Years ب مرحد من حود بي مرحد مرحو مرحو بر مرح مرح مرح مرح مرح مرح مرح مرح مرح م

Runoff Computation for Design Frequency.

ID (acre)	C Value (min)	Area (min)	Tc (i	Tc Used n/hr)	Intensity (cfs)	Supply Q (cfs)	Total Q
A-3	0.55	1.67	10.00	10.00	7.99	0.000	7.336
A-4	0.55	0.83	10.00	10.00	7.99	0.000	3.646
A-5	0.55	1.38	10.00	10.00	7.99	0.000	6.062
A-1	0.55	0.38	10.00	10.00	7.99	0.000	1.669
A-2	0.55	0.94	10.00	10.00	7.99	0.000	4.129

Sag	Inlets	Configuration	Data.
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<u></u>													
Inlet ID (ft)	Inlet Type (sf)	Length/ Perim. (%)	Grate Area (%)	Left-Slope Long Trans (%) (%)	Right-Slope Long Trans (ft)	Gu _ n (ft)	utter DeprW (Depth Allowet (ft)	Critic Elev.				
A-3	Curb	10.00	n/a	0.50 2.00	0.50 2.00 0		1.50	0.50	26.70				
A-4	Curb	5.00	n/a	0.50 2.00	0.50 2.00 0		1.50	0.50	26.00				
A-5	Curb	5.00	n/a	0.50 2.00	0.50 2.00 0).014	1.50	0.50	26.00				
A-1	Curb	5.00	n/a	0.50 2.00	0.50 2.00 0	0.014	1.50	0.50	26.60				
A-2	Curb	5.00	n/a	0.50 2.00	0.50 2.00 0	0.014	1.50	0.50	26.60				

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Length	Gra Perim	te Area	Total Q	Inlet Capacity	Total Head	Ponded Left	Width Right
(ft)	(ft)	(sf) (c	fs)	(cfs)	(ft)	(ft)	(ft)		
A-3	Curb	10.00	n/a	n/a	7.336	10.327	0.398	12.70	12.70
A-4	Curb	5.00	n/a	n/a	3.646	6.261	0.349	9.80	9.80
A-5	Curb	5.00	n/a	n/a	6.062	6.261	0.489	11.85	11.85
A-1	Curb	5.00	n/a	n/a	1.669	6.261	0.207	7.30	7.30
A-2	Curb	5.00	n/a	n/a	4.129	6.261	0.379	10.25	10.25

Cumulative Junction Discharge Computations

			ענעט אורט אנגע בענע בענט אורט אינט אינע אורט אינט אונט		. 2000 2000 2000 2000 2000 2000 2000 20	עם בעבר הנוסו לעמו בעום לכלנו לעמו רובה בינה אונה אונה או	ב אנה	
Node	Node	Weighted	Cumulat.	Cumulat	. Intens.	User	Additional	Total
I.D.	Туре	C-Value	Dr.Area	Тс	,	Supply Q	Q in Node	Disch.
(acres)	(mi	n) (in/ł	nr) cfs)	1	(cfs)	(cfs)		
A-3	Curb	0.550	2.99	11.49	7.52	0.000	0.00	12.375
A-4	Curb	0.550	3.82	12.18	7.33	0.000	0.00	15.401
A-5	Curb	0.550	5.20	12.29	7.30	0.000	0.00	20.880
A-1	Curb	0.550	0.38	10.00	7.99	0.000	0.00	1.669
A-2	Curb	0.550	1.32	10.26	7.90	0.000	0.00	5.737
MH-1	CircM	n 0.550	1.32	10.26	7.90	0.000	0.00	5.737
OUT	Outlt	0.550	5.20	12.29	7.30	0.000	0.00	20.880

Conv	Conveyance Configuration Data														
Run#	Node US (ft)	DS	Flowline US (ft)	Elev. DS (ft)	Shape # (ft) (Span (%)	Rise	Length	Slope	n_value					
1	A-1	A-2	20.46	20.33	Circ 1	0.00	1.50	44.00	0.30	0.013					
2	A-2	MH-1	20.33	20.06	Circ 1	0.00	2.00	142.00	0.19	0.013					
3	MH-1	A-3	20.06	19.83	Circ 1	0.00	2.00	104.00	0.22	0.013					
4	A-3	A-4	19.83	19.51	Circ 1	0.00	2.50	164.00	0.20	0.013					
5	A-4	A-5	19.51	19.45	Circ 1	0.00	2.50	28.00	0.21	0.013					
6	A-5	OUT	19.45	19.00	Circ 1	0.00	3.00	224.00	0.20	0.013					

Conve	yance Hydr	aulic Com	putatio	ns. Tai	lwater =	= 22.00	0 (ft)			a minini mana minina minini minini
===== Run# (ft)	Hydraulic US Elev (ft)						ocity Actual (cfs)	Q (cfs)	Cap (ft)	Junc Loss
1 2 3	22.54 22.53 22.44	22.53 22.44 22.37	0.025 0.064 0.064	0.55 1.09 1.05	1.50 2.00 2.00	2.84 3.26 3.45	0.94	1.67 5.74 5.74	5,71 9,87 10,64	0.000 0.000 0.000
4 5 6	22.37 22.22 22.18	22.22 22.18 22.00	0.091 0.141 0.098	1.52 1.72 1.88	2.50 2.50 3.00	3.95 4.28 4.49	2.52 3.14 2.95	12.37 15.40 20.88	$\begin{array}{ccc} 18 & 12 \\ 18.99 \\ 29.90 \end{array}$	$0.000 \\ 0.000 \\ 0.000$

OUTPUT FOR ANALYSYS FREQUENCY of: 100 Years

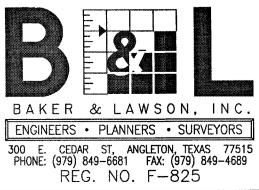
Runoff Computation for Analysis Frequency.

ID (acre	C Value) (min)	Area (min)	Tc (in	Tc Used /hr)	In (Cfs	tensity 5)	Supply (cfs)	/Q Tota	al Q
A-3 A-4 A-5 A-1 A-2	0.55 0.55 0.55 0.55 0.55 0.55	1.67 0.83 1.38 0.38 0.94	10.00 10.00 10.00 10.00 10.00	$ \begin{array}{c} 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \end{array} $	1 1 1	2.00 2.00 2.00 2.00 2.00 2.00	0.000 0.000 0.000 0.000 0.000	0 5 0 9 0 2	.020 .477 .106 .508 .203
	nlets Confi	iguration	Data.						
Inlet ID (ft)	: Inlet Ler Type Per	ngth/ Grat rim. Are: %) (%)	a Long		-	rans	•	Depth Allowed (ft)	Critic Elev.
A-3 A-4 A-5 A-1 A-2	Curb 5 Curb 5 Curb 5	•	a 0.50 a 0.50 a 0.50	2.00 2.00 2.00	0.50 0.50 0.50	2.00 0.0		0.50	26.70 26.00 26.00 26.60 26.60
Sag I	nlets Compu	utation Da	ata.	ada mundu sanda senne sekner dabab dabab sinak					
Inlet ID (ft)	: Inlet L Type	ength P f) (cfs	Grate erim Area) (cf		-	Inlet pacity (ft)	Total Head (ft)	Ponded Wie Left Ri	dth ght
A-3 A-4 A-5 A-1 A-2	Curb	5.00 5.00 5.00	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	a 5.4 a 9.1 a 2.5	77 06 08	3.436 6.261 6.718 6.261 6.261	0.418 0.457 0.709 0.272 0.497	11.40 1 13.80 1 8.50	4.80 1.40 3.80 8.50 1.95
Cumul		alaa alalaa kalala kalaa asoo asoo asoo asoo asoo asoo a			anggan panan banan banan bana antan anang ataun ataun anal <mark>a</mark> n banan				
Node I.D. (acre	Туре С-'	eighted (Value D (in/hr	r.Area	Тс	. Inte (cfs)	Sup		dditional in Node	Total Disch.
A-3 A-4 A-5 A-1 A-2 MH-1 OUT	Curb Curb Curb Curb Curb CircMh Outlt	0.550 0.550 0.550 0.550 0.550 0.550 0.550	2.99 3.82 5.20 0.38 1.32 1.32 5.20	11.36 12.02 12.12 10.00 10.23 10.23 12.12	11. 11. 12. 11. 11. 11. 11.	$\begin{array}{cccc} 13 & 0 \\ 09 & 0 \\ 00 & 0 \\ 89 & 0 \\ 89 & 0 \end{array}$.000 .000 .000 .000 .000 .000 .000	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	18.746 23.389 31.729 2.508 8.632 8.632 31.729
Conve	eyance Conf	iguration	Data						
	Node I.D.	Flow	wline Ele	ev.	====;=				
(ft)	US DS (ft)	U	s DS (ft) (f		ape # :) (Span (%)	Rise Len	gth Slope	n_value
2 3 4 5	A-1 A-2 A-2 MH-1 MH-1 A-3 A-3 A-4 A-4 A-5 A-5 OUT	1 20 20 19 19	.33 20 .06 19 .83 19 .51 19	0.06 C 0.83 C 0.51 C 0.45 C	irc 1 irc 1 irc 1 irc 1 irc 1 irc 1	0.00 0.00 0.00 0.00	2.00 14 2.00 10 2.50 16 2.50 2	4.00 0.39 2.00 0.11 4.00 0.22 4.00 0.22 8.00 0.22 4.00 0.22	9 0.013 2 0.013 0 0.013 1 0.013
	eyance Hydra								
===== Run# (ft)	Hydraulic US Elev (ft)		e Fr.Slope	Dept	:h Actua]	Vel Unif.	ocity Actual	Q Ca cfs) (ft	Junc p Loss
1 2 3 4 5 6	23.32 23.30 23.09 22.94 22.60 22.51	23.30 23.09 22.94 22.60 22.51 22.00	0.057 0.146 0.146 0.209 0.325 0.226	0.69 1.44 1.38 2.19 2.50 2.63	1.50 2.00 2.00 2.50 2.50 3.00	3.15 3.57 3.75 4.12 4.76 4.84	2.75 2.75 3.82 4.76	2.51 5. 8.63 9. 8.63 10. 18.75 18. 23.39 18. 31.73 29.	870.000640.000120.000990.000

ID (acre	C Valu) (mir		ea in)	Т	⁻c (in	Tc U /hr)	Ised		Int fs)	ensi)	-	(cf	Suppl ⁻ s)	уQ	-	rota	1 Q	
A-3 A-4 A-5	0.55 0.55 0.55	0. 1.	67 83 38	10. 10. 10.	. 00 . 00	10. 10. 10.	00		12 12	.00 .00 .00			0.00 0.00 0.00	0 0		9.	477 106	-
A-1 A-2 	0.55 0.55		38 94	10. 10.		10. 10.				2.00			0.00 0.00				508 203	-
	nlets Co	-		Dat	a.													
Inlet ID (ft)	Type (sf)	Length/ Perim. (%)		a	Long	-	าร		l Tr	lope ans t)		n	tter DeprW					riti Elev
A-3 A-4	Curb	10.00 5.00	n/a n/a	a	0.50	2.00)	0.50	2	2.00			1.50 1.50		0. 0.			26.7 26.0
A-5 A-1 A-2	Curb Curb Curb	5.00 5.00 5.00	n/a n/a n/a	a	0.50 0.50 0.50	2.00)	0.50	2	2.00 2.00 2.00	0.0	14	1.50 1.50 1.50		0. 0. 0.	50		26.0 26.6 26.6
Sag I	nlets Co	mputati	on Da	ata.														
Inlet ID (ft)	Inlet Type (ft)	Lengt (sf)	P		n Are	a		1 Q (ft)		nlet acit (ft)	у				nded ft			
а-3 А-4	Curb Curb	10.00		n/a n/a			L1.0 5.4			8.436 5.261			418 457		.80 .40		.80	
A-5 A-1 A-2	Curb Curb Curb	5.00 5.00 5.00))	n/a n/a n/a	n/ n/	a a	9.1 2.5 6.2	.06 508	6	5.718 5.261	;	0.	709		.80		.80	
	ative Ju Node																	
Node I.D. (acre	Туре	C-Value in) (*	e D in/hr	r.Ai	rea cfs	тс)		(cf	5)	S	Us Supp (cf	٦y			tion Nod			otal sch.
A-3 A-4	Curb Curb	0.55	50	3	2.99	11. 12.	.02	1	1.4	13	0.	000			0.0	0	23	.746
A-5 A-1	Curb Curb	0.55	50	(5.20	12. 10.	.00	1	1.0) 0	0.	000			0.0	0	2	.729
A-2 MH-1 OUT	Curb CircM Outlt		50	1	1.32 L.32 5.20	10. 10. 12.	23	1	1.8 1.8 1.0	39	0.	000 000 000			0.0	0	8	.632 .632 .729
Conve	eyance Co		tion	Dat	ta													
	Node I.		Flov U	==== wlir	ne El DS	ev.		nape t)		Spar %)		ise	Len	gth	s1	ope	==== n	valu
		 -2 IH-1		.46 .33		0.33 0.06		irc irc		0.00		 .50 .00		4.00		0.30 0.19		0.01
3	MH-1 A	-3	20	.06	1	9.83	C	irc	1	0.00	2	.00	10	4.00) (0.22	($0.01 \\ 0.01 \\ 0.01 \\ 0.1 \\ 0.01 \\ 0$
5	A-4 A	-4 -5 0UT	19	.83 .51 .45	1	9.51 9.45 9.00	C	irc irc irc	1	0.00	2	.50 .50 .00	2	4.00 8.00 4.00) (0.20 0.21 0.20	. (0.01 0.01 0.01
	eyance Hy								~									
	Hydrau	ic Grad	delin	==== е			Dept	===== :h			/elo	=== cit						Jun
Run# (ft) 	US Ele (ft)	ev DS E			.slop ft) 								ual ⁻ s) (Q (cfs		Cap (ft)		Los
1 2	23.3		3.30 3.09	0.0		0.6		1.5			15 57		.42	2.		5.7 9.8		0.00
3 4	23.0	9 22	.94	0.1	L46	1.3 2.1	38	2.0	0	3.	75	2	.75	8.0	63	10.6	4	0.00
5	22.6	0 22	2.51	0.3	325	2.5	50	2.5	0	4.	76	4	.76	23.3		18.9	9	0.00
6	22.5	ο <u>τ</u> Ζζ	2.00	0.2	226 =====	2.6		3.0			84			31.	/3	29.9		0.00

NORMAL TERMINATION OF WINSTORM.

				DESIGNED MS	В
				DRAWN	
NO.	DATE	DESCRIPTION	APPROVED	CHECKED	BAK
		REVISIONS	L	DATE	300 E. PHONE:



WinStorm (STORM DRAIN DESIGN)

Version 3.05, Jan. 25, 2002 Run @ 4/28/2021 3:58:12 PM

PROJECT NAME : BAYOU BEND JOB NUMBER : 13454 PROJECT DESCRIPTION : DESIGN FREQUENCY : 5 Years ANALYSYS FREQUENCY : 100 Years MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN FREQUENCY of: 5 Years

Runoff Computation for Design Frequency.

ID (acre)	C Value (min)	Area (min)		Tc Used n/hr)	Intensity (cfs)	Supply Q (cfs)	T
A-6 A-7	0.55 0.55	2.35 1.20	10.00 10.00	10.00 10.00	7.99 7.99 7.99	0.000 0.000	

Sag Inlets Configuration Data.

Inlet ID (ft)	Inlet Type (sf)	Perim.	Area	Long ⁻	Slope Rig Trans Lo %)			DeprW		
А-6 А-7	Curb Curb	10.00 5.00	n/a n/a		2.00 0. 2.00 0.					
Sag In Inlet	lets Co Inlet	omputati ====== Lengt	=====		Total (Q Inlet	 t То	 otal	Ponded	 V
ID (ft)	Type (ft)	U	Per	im Area		Capaci	ty He	ead t)	Left	F
	Curb	10.00) n/	a n/a	10.323	10.32	7 0	. 500	14.45	
A-7	Curb	5.00) n/	a n/a	5.271	6.26	1 0	.446	11.25	

Cumulative Junction Discharge Computations

	Туре	C-Value	Cumulat. Dr.Area hr) cfs	Тс	. Intens. (cfs)	User Supply Q (cfs)	Additiona Q in Node
A-6 A-7 OUT	Curb Curb Outlt	0.550	2.35 3.55 3.55	10.00 10.13 10.13	7.99 7.94 7.94	0.000 0.000 0.000	0.00 0.00 0.00

Conveyance Configuration Data

	Node US (ft)	I.D. DS	Flowline US (ft)	DS	Shape (ft)	,	Rise	Length	slo
4	A-6 A-7	A-7 OUT	17.87 17.82			1 0.00 1 0.00		28.00 104.00	0 0

Conveyance Hydraulic Computations. Tailwater = 22.000 (ft)

	Hydraulic	Gradelin	e	Dep	th	Velo	ocity	
Run#	US Elev	DS Elev	Fr.Slo	be Unif.	Actual	Unif.	Actual	Q
(ft)	(ft)	(%)	(ft)	(ft)	(f/s)	(f/s)	(cfs)	(cfs)
 C		22.15		1.41	2.50	2 62	2.10	10 2
3 4	22.17 22.15	22.15			2.50	4.31		15.5
	£ £ 1 5	~~ 00	01210		2150		3120	~~~~

次 MIGUELANGEL A SAUCEDA PRO 121992

The seal appearing on this document was authorized by Miguel Sauceda P.E. 121992 Mahl Ill 1/11/22

OWNER: **Clint Peltier Clint Peltier Custom Homes** 979-481-4840

PLAN: PROFILE: HORIZONTAL: VERTICAL:

OUTPUT FOR ANALYSYS FREQUENCY of: 100 Years

	ID C Value Area TC TC Used Intensity Supply Q Total Q (acre) (min) (min) (in/hr) (cfs) (cfs)
°S	A-60.552.3510.0010.0012.000.00015.507A-70.551.2010.0010.0012.000.0007.918
	Sag Inlets Configuration Data.
ity Supply Q Total Q (cfs)	Inlet Inlet Length/ Grate Left-Slope Right-Slope Gutter Depth Crit ID Type Perim. Area Long Trans Long Trans n DeprW Allowed Ele (ft) (sf) (%) (%) (%) (ft) (ft) (ft)
0.000 10.323 0.000 5.271	A-6 Curb 10.00 n/a 0.50 2.00 0.50 2.00 0.014 1.50 0.50 26. A-7 Curb 5.00 n/a 0.50 2.00 0.50 2.00 0.014 1.50 0.50 26.
	Sag Inlets Computation Data.
e Gutter Depth Critic n DeprW Allowed Elev. (ft) (ft)	Inlet Inlet Length Grate TotalQ Inlet Total Ponded Width ID Type Perim Area Capacity Head Left Right (ft) (ft) (sf) (cfs) (cfs) (ft) (ft) (ft)
0.014 1.50 0.50 26.70 0.014 1.50 0.50 26.70	A-6 Curb 10.00 n/a n/a 15.507 13.436 0.583 16.85 16.85 A-7 Curb 5.00 n/a n/a 7.918 6.718 0.597 13.10 13.10
0.014 1.00 0.00 20.70	
	Cumulative Junction Discharge Computations
t Total Ponded Width ty Head Left Right	Cumulative Junction Discharge Computations Node Node Weighted Cumulat. Cumulat. Intens. User Additional Tota I.D. Type C-Value Dr.Area Tc Supply Q Q in Node Disch (acres) (min) (in/hr) cfs) (cfs) (cfs)
Total Ponded Width ty Head Left Right) (ft) 7 0.500 14.45 14.45	Node Node Weighted Cumulat. Cumulat. Intens. User Additional Tota I.D. Type C-Value Dr.Area Tc Supply Q Q in Node Disch
Total Ponded Width ty Head Left Right) (ft) 7 0.500 14.45 14.45 1 0.446 11.25 11.25	NodeNodeWeightedCumulat.Cumulat.Intens.UserAdditionalTotalI.D.TypeC-ValueDr.AreaTcSupply QQ in NodeDisch(acres)(min)(in/hr)cfs)(cfs)(cfs)A-6Curb0.5502.3510.0012.000.0000.0015.50A-7Curb0.5503.5510.1211.940.0000.0023.31OUTOutlt0.5503.5510.1211.940.0000.0023.31Conveyance Configuration Data
t Total Ponded Width ty Head Left Right) (ft) 7 0.500 14.45 14.45 1 0.446 11.25 11.25 User Additional Total Supply Q Q in Node Disch. (cfs)	Node Node Weighted Cumulat. Cumulat. Intens. User Additional Total I.D. Type C-Value Dr.Area Tc Supply Q Q in Node Disch (acres) (min) (in/hr) cfs) (cfs) (cfs) A-6 Curb 0.550 2.35 10.00 12.00 0.000 0.00 15.50 A-7 Curb 0.550 3.55 10.12 11.94 0.000 0.00 23.31 OUT Outlt 0.550 3.55 10.12 11.94 0.000 0.00 23.31
t Total Ponded Width ty Head Left Right (ft) 7 0.500 14.45 14.45 1 0.446 11.25 11.25 User Additional Total Supply Q Q in Node Disch.	NodeNodeWeightedCumulat.Cumulat.Intens.UserAdditionalTotalI.D.TypeC-ValueDr.AreaTcSupply QQ in NodeDisch(acres)(min)(in/hr)cfs)(cfs)(cfs)A-6Curb0.5502.3510.0012.000.0000.0015.50A-7Curb0.5503.5510.1211.940.0000.0023.31OUToutlt0.5503.5510.1211.940.0000.0023.31ConveyanceConfigurationDataRun#NodeI.D.FlowlineElev.USDSUSDSShape #SpanRiseLengthSlopen_val
t Total Ponded Width ty Head Left Right) (ft) 7 0.500 14.45 14.45 1 0.446 11.25 11.25 User Additional Total Supply Q Q in Node Disch. (cfs) 0.000 0.00 10.323 0.000 0.00 15.512	Node Node Weighted Cumulat. Cumulat. Intens. User Additional Tota I.D. Type C-value Dr.Area Tc Supply Q Q in Node Disch (acres) (min) (in/hr) cfs) (cfs) (cfs) A-6 Curb 0.550 2.35 10.00 12.00 0.000 0.00 15.50 A-6 Curb 0.550 3.55 10.12 11.94 0.000 0.00 23.31 OUT Outl 0.550 3.55 10.12 11.94 0.000 0.00 23.31 OUT Outl 0.550 3.55 10.12 11.94 0.000 0.00 23.31 OUT Outl 0.550 3.55 10.12 11.94 0.000 0.00 23.31 Conveyance Configuration Data Ength Slope n_val (ft) 0.21 0.0 <t< td=""></t<>
t Total Ponded Width ty Head Left Right) (ft) 7 0.500 14.45 14.45 1 0.446 11.25 11.25 User Additional Total Supply Q Q in Node Disch. (cfs) 0.000 0.00 10.323 0.000 0.00 15.512	Node Node Weighted Cumulat. Cumulat. Intens. User Additional Tota I.D. Type C-Value Dr.Area Tc Supply Q Q in Node Disch (acres) (min) (in/hr) cfs) (cfs) (cfs) A-6 Curb 0.550 2.35 10.00 12.00 0.000 0.00 15.50 A-7 Curb 0.550 3.55 10.12 11.94 0.000 0.00 23.31 OUT outlt 0.550 3.55 10.12 11.94 0.000 0.00 23.31 OUT outlt 0.550 3.55 10.12 11.94 0.000 0.00 23.31 OUT outlt 0.550 3.55 10.12 11.94 0.000 0.00 23.31 Conveyance Configuration Data

Junc Cap Loss fs) (ft) .32 17.34 0.000 .51 18.87 0.000

RECORD DRAWING

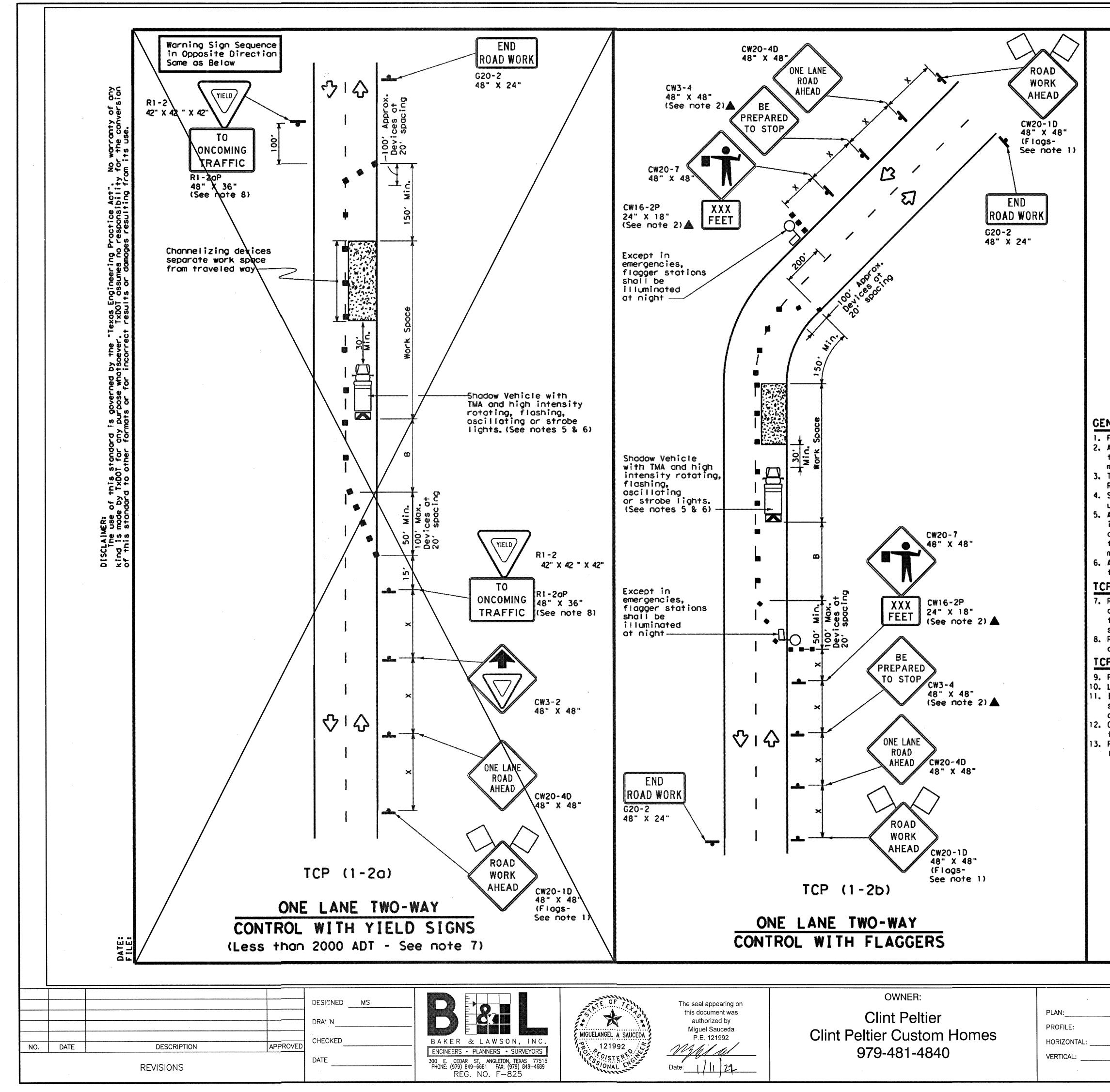
WINDSTORM DATA

I-1 TO I-5

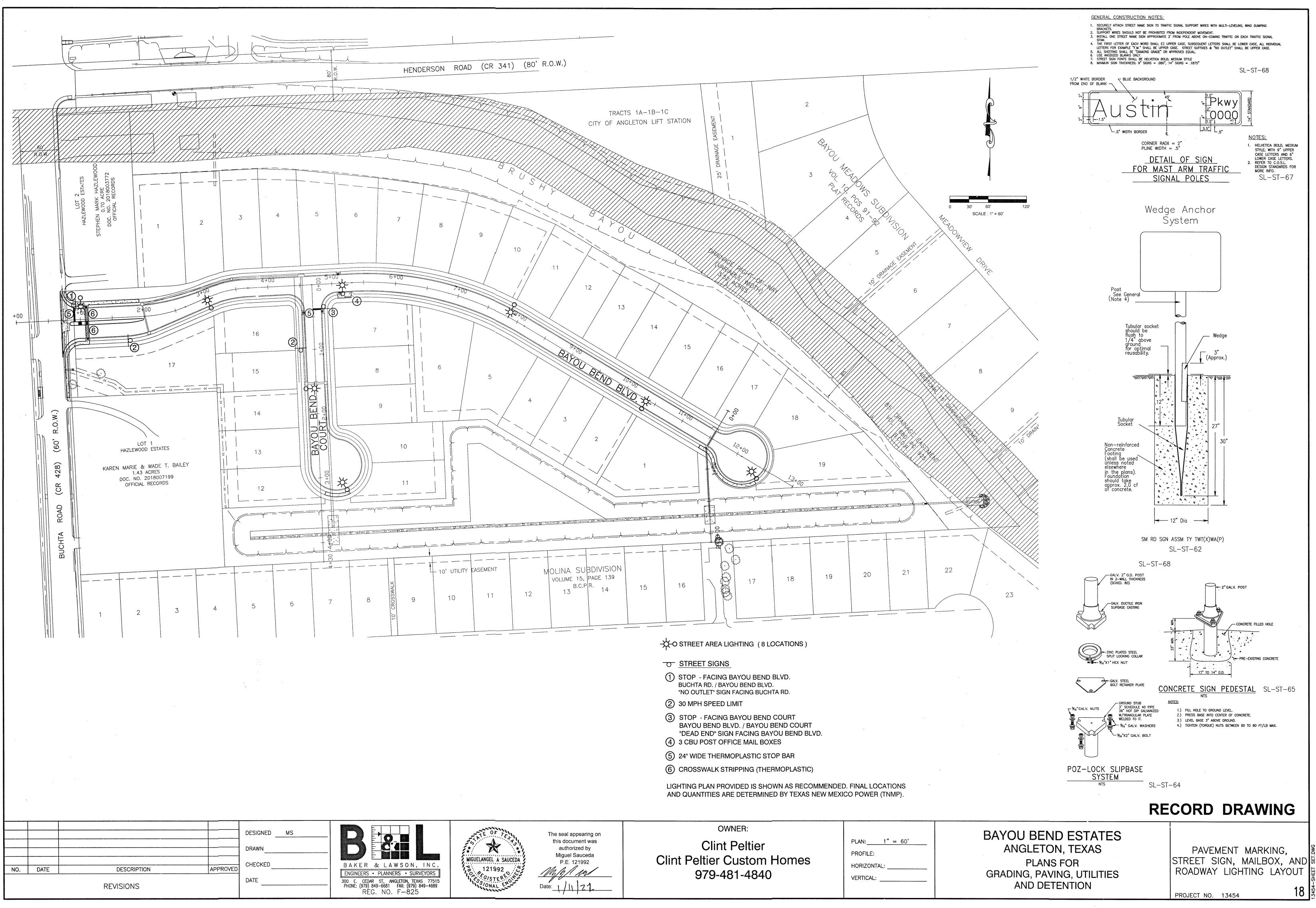
I-6 TO I-9

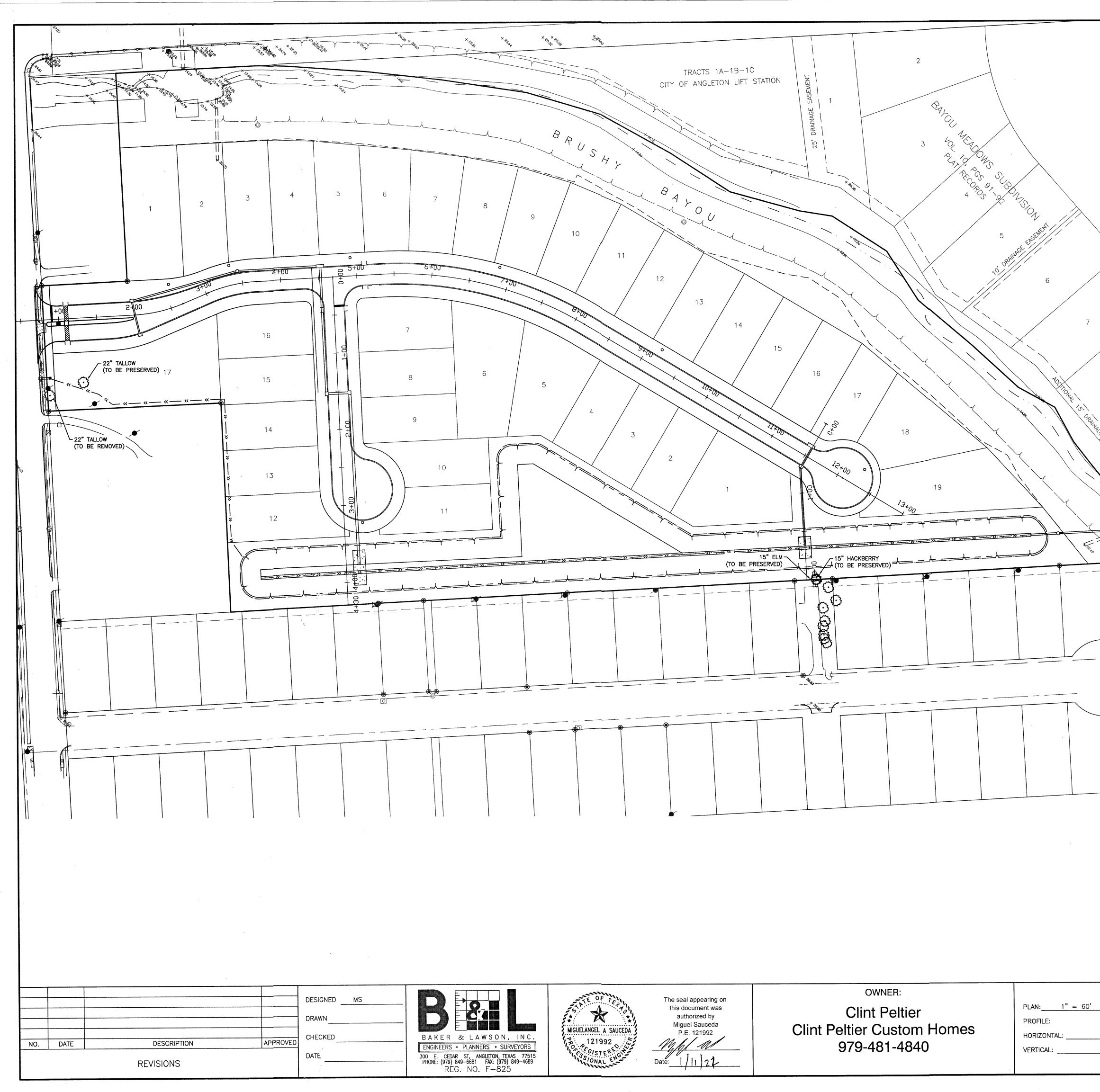
BAYOU BEND ESTATES ANGLETON, TEXAS PLANS FOR GRADING, PAVING, UTILITIES AND DETENTION

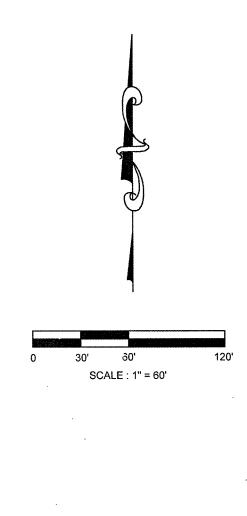
PROJECT NO. 13454



					LEGE	ND.						
		а Тур	e 3 Ba	rrico	T second s	0 0	Channeliz	ing Devices				
		Неа	vy Wor	k Veh	icle		Truck Mou Attenuato					
		Tro	iler N	lounte	d		Portoble	Changeable				
	图			Arrow	Board		Message S	ign (PCMS)				
		Sig				<u> </u>	Traffic F	low				
		FIO	9			<u> </u>	Flagger					
		C	Minimur)esirob		Suggeste Spoci	d Maxim ng of	Na cha cha cha cha cha cha cha cha cha ch	Suggested	Stopping			
Speed	Formula	Top	per Leng X X	gths	Chonne	ices	Sign Spacing	Longitudinal Buffer Space	Sight			
*		10' Offsei	۱۱' NOTfset	12' Offset	On a	On a Tangen		*B*				
30	and a second sec		165'	180'		60'		901	2001			
<u>35</u> 40	$L = \frac{WS^2}{60}$	205' 265'		245'		70'		120'	250'			
40		205 450'	295' 495'	320' 540'	<u>&</u>	80'		155' 195'	305' 360'			
50		500'	550'	600'	50'	100'		240'	425'			
<u>55</u> 60	L=WS	550'	-	660'		110'		295'	495'			
65		600' 650'	660' 715'	720* 780*		120'		350' 410'	570' 645'			
70		700'			70'	140'		475'	730'			
75		750'			75'	150'	900'	540'	820'] [
	entiona r lengt			*	nded off							
				W=Wid	th of Of	fset (F		d Speed (MPH)				
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NERAL I	NOTES											
Flags att								hose denoted	·····			
triangle	symbol n	iay be	omitte	d when	n stated (e I sewhei	re in the pl	lans, or for i	routine			
maintenon The CW3-4							led ofter th	ne CW20-4D "O	NE LANE			
ROAD AHEA	D" sign,	but (proper	sign a	spacing sl	hall be	maintained.					
used if a	idvance w	vornin	g ahead	of th	ne flagge	r or R1	-2 "YIELD" :	sign is less '	than 1500	feet.		
								cting the pe				
quality o	of the wo	ork. I	f worke	rs ore	no long	er prese	ent but rook	d ar work con other channel	ditions re	equire		
may be sui	bstitute	d for	the Sh	odow V	enicle o	nd TMA.						
those sho							oned off the	e paved surfa	ce, next t	ło		
P (1-20	a)											
								approaches				
								s than 2000 A		er		
spoces sh R1-2 "YIE						TRAFFI	C" plaque st	nall be place	don a su	poort		
at a 7 fo	ot minin											
P (1-2)												
								ication to co rs to communio		ffic.		
If the wo	rk space	is l	ocated	near c	hor izon	tal or i	vertical cur	rve, the buff ght distance	er distanc			
and a que	we of st	opped	vehicl	es (se	e toble	above).		· ·		Jýgei		
troffic a	ind appro	ved b	y the E	inginee	r.			pilot cor is	-			
Flaggers limited t					oddles to	o contro	ol traffic.	Flags should	d be			
				Г					Tra	affic		
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										PLAN		
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								PR	OJECT NO.	13454		17
								L. '. '`	· · • •			







<u>SYMBOLS</u>

O = SET 5/8" I.R. W/CAP "BAKER & LAWSON" \bigcirc = FOUND MONUMENT (AS NOTED) $- \bigcirc$ - (TBM) TEMPORARY BENCHMARK

Ψ.	=	(TBM)	TEMPORARY	BENCHM
-••	-	POWER	POLE	

- $\bigcirc = MAIL BOX$ $\bigcirc = WATER METER$
- $\left\langle \begin{array}{c} \\ \end{array} \right\rangle$ = Live oak (heritage tree)
- = PECAN (HERITAGE TREE)
- G = ELM (SIGNIFICANT TREE)
- Significant tree

THERE WERE NO HERITAGE TREES (LIVE OAK OR PECAN) IDENTIFIED ON THE PROPERTY BASED ON FIELD SURVEY PERFORMED 11/16/2020 AND 11/17/2020.

NO REPLACEMENT TREES ARE REQUIRED.

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THERE IS NO CREDIT FOR PRESERVATION OF HERITAGE TREES ON THIS SITE.

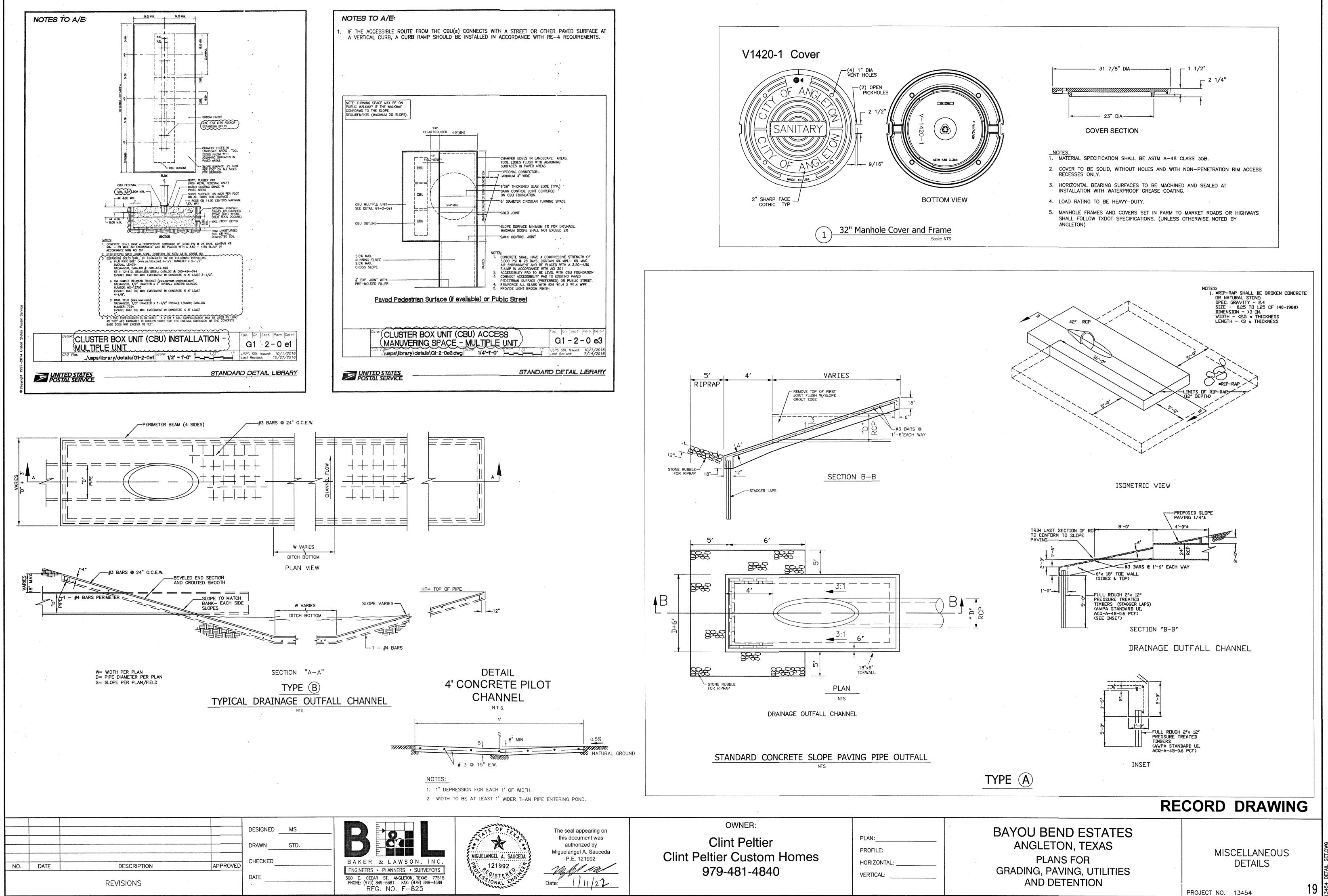
ONE ELM TREES IS ON THE SITE. THE ELM TREE IS CONSIDERED A SIGNIFICANT TREE UNDER THE ANGLETON LDC. THE ELM TREE WILL BE PRESERVED.

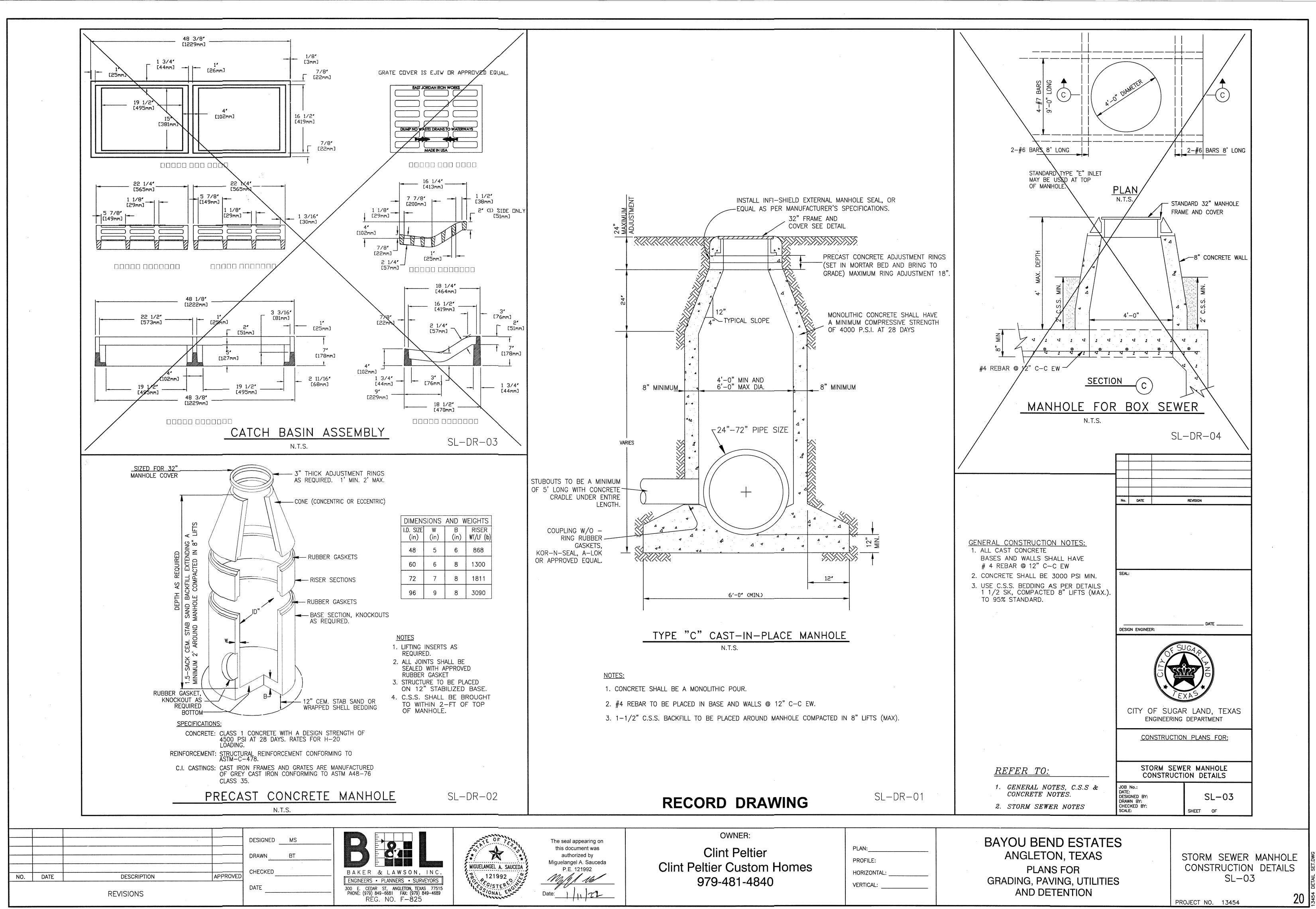
RECORD DRAWING

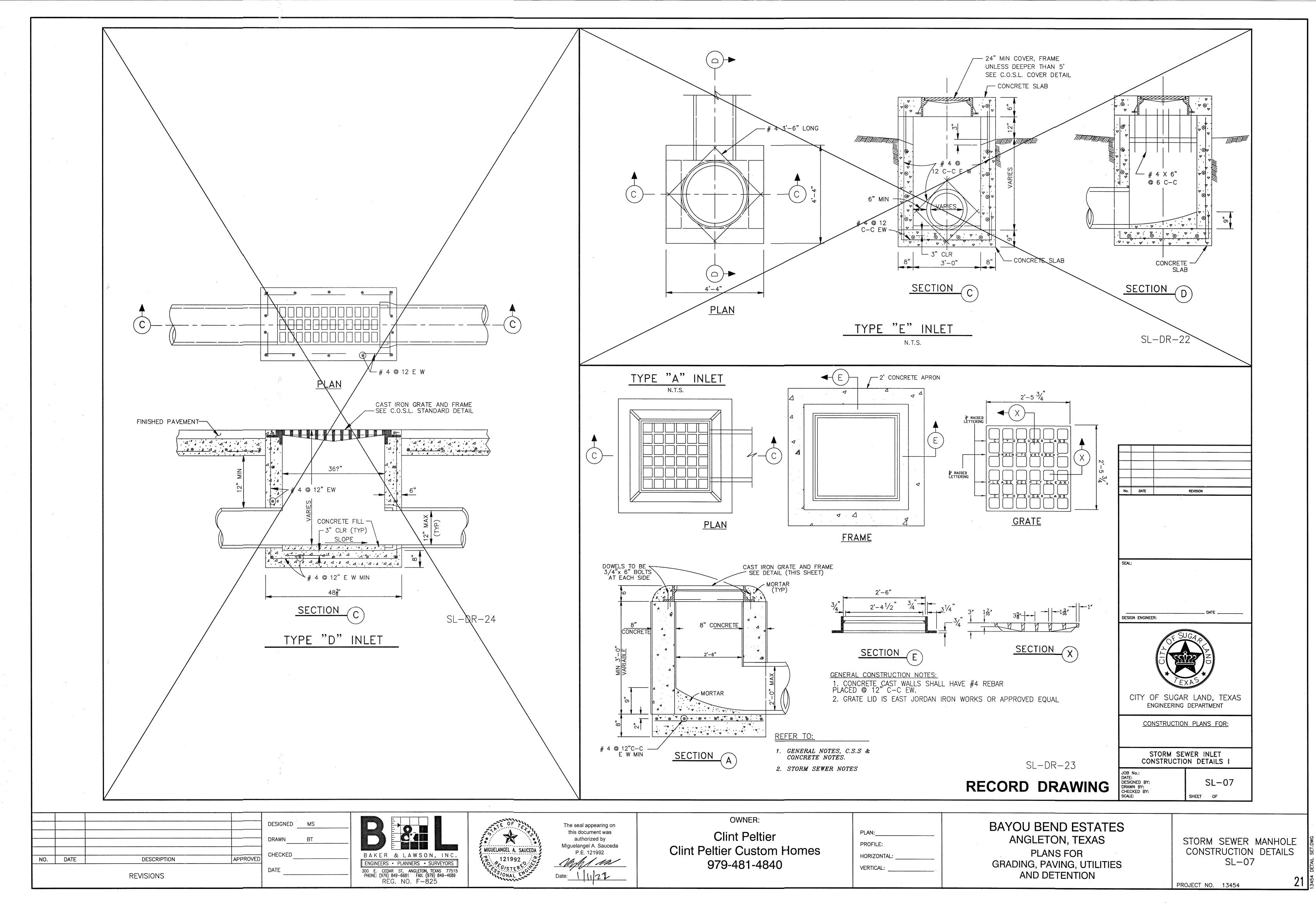
HERITAGE TREE SURVEY AND TREE PRESERVATION PLAN

PROJECT NO. 13454

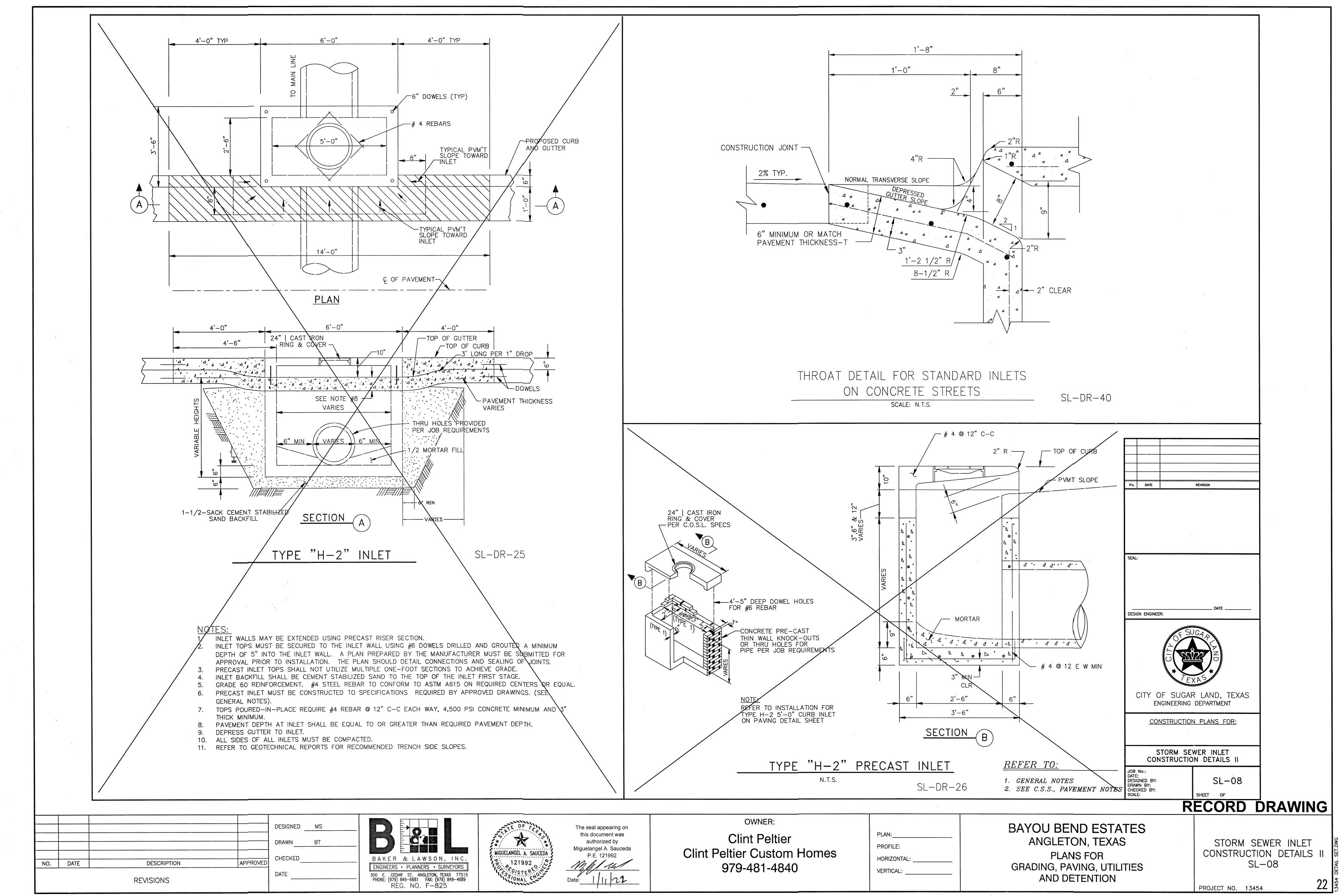
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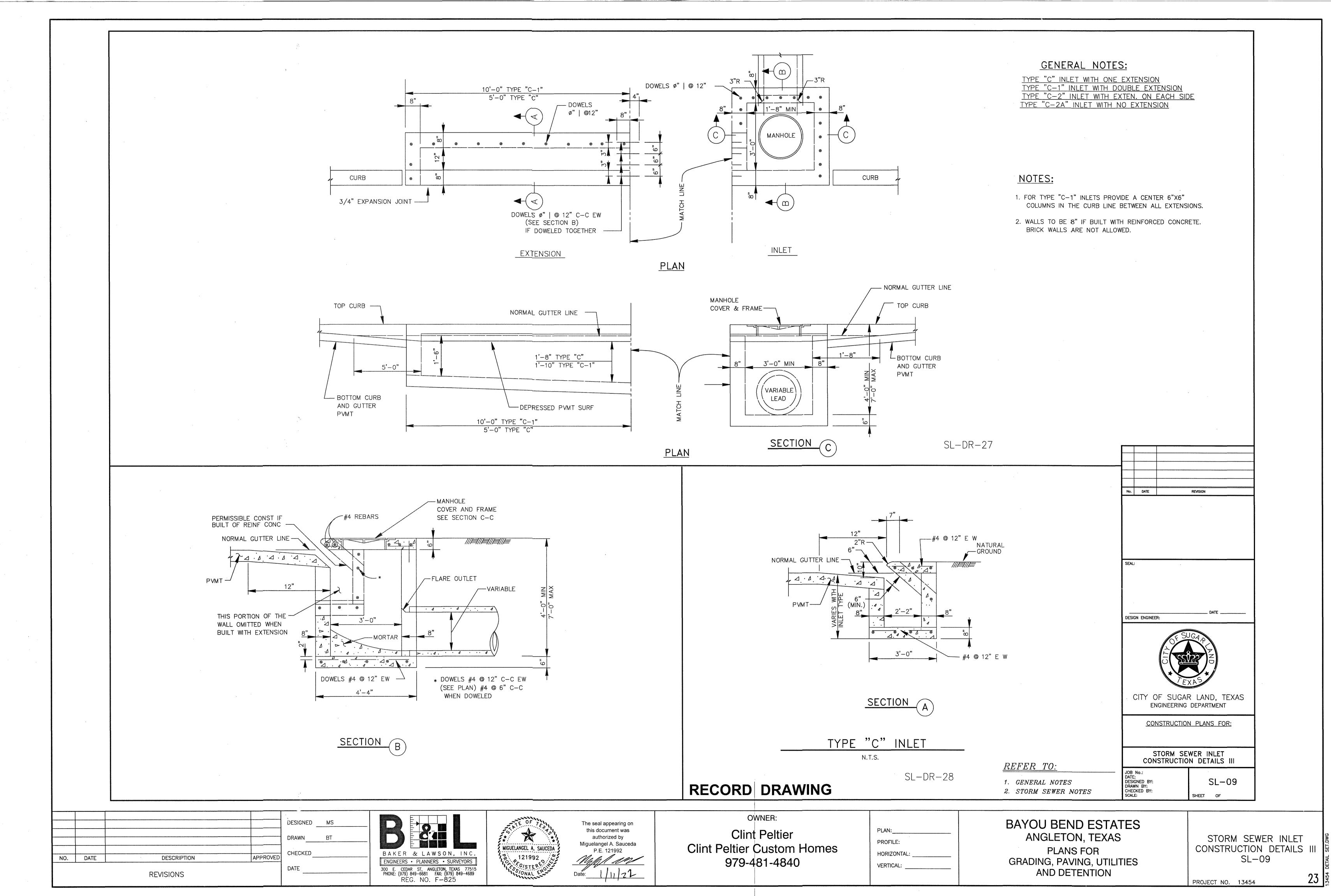






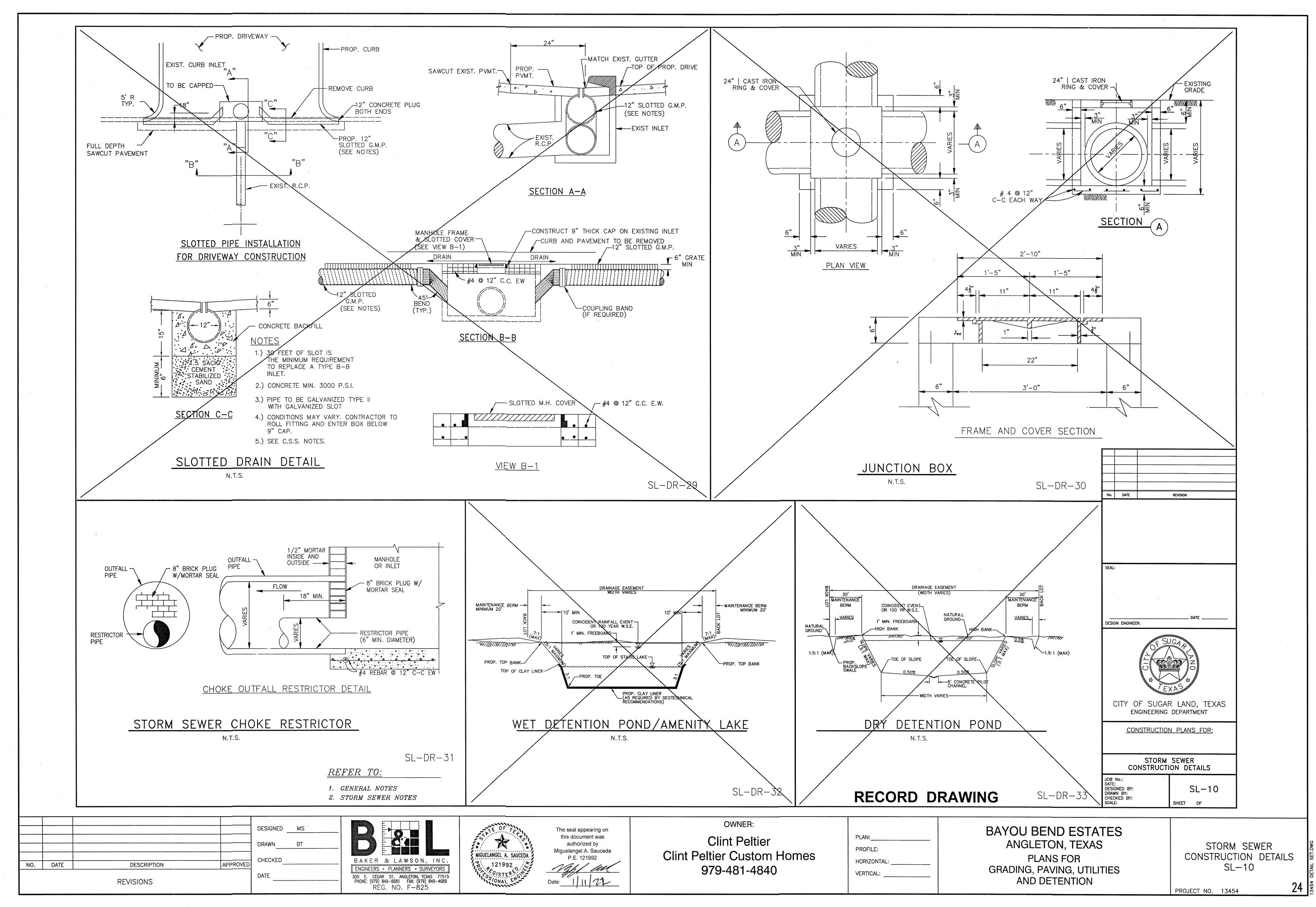
the Alexandra construction of the second second

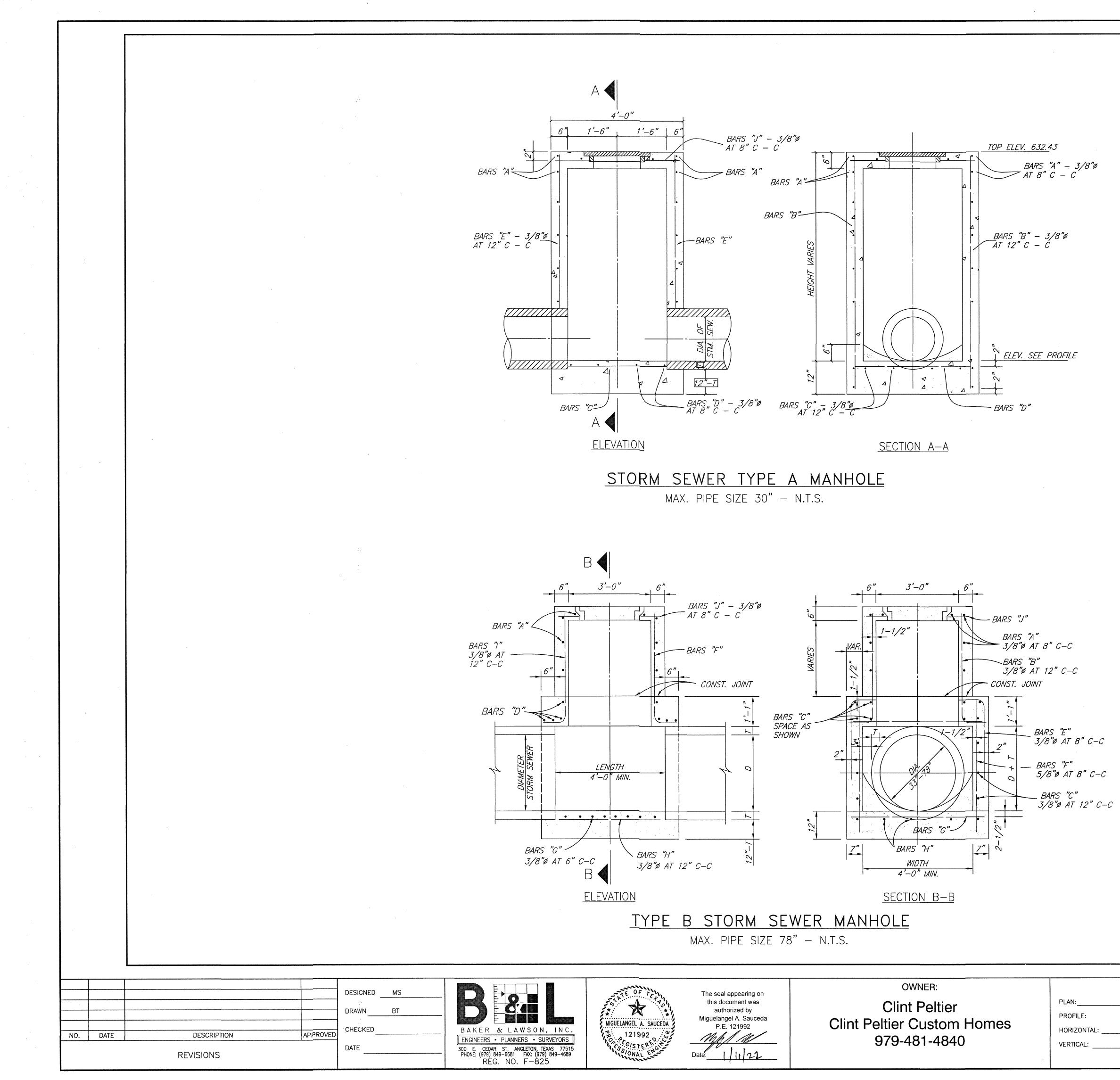




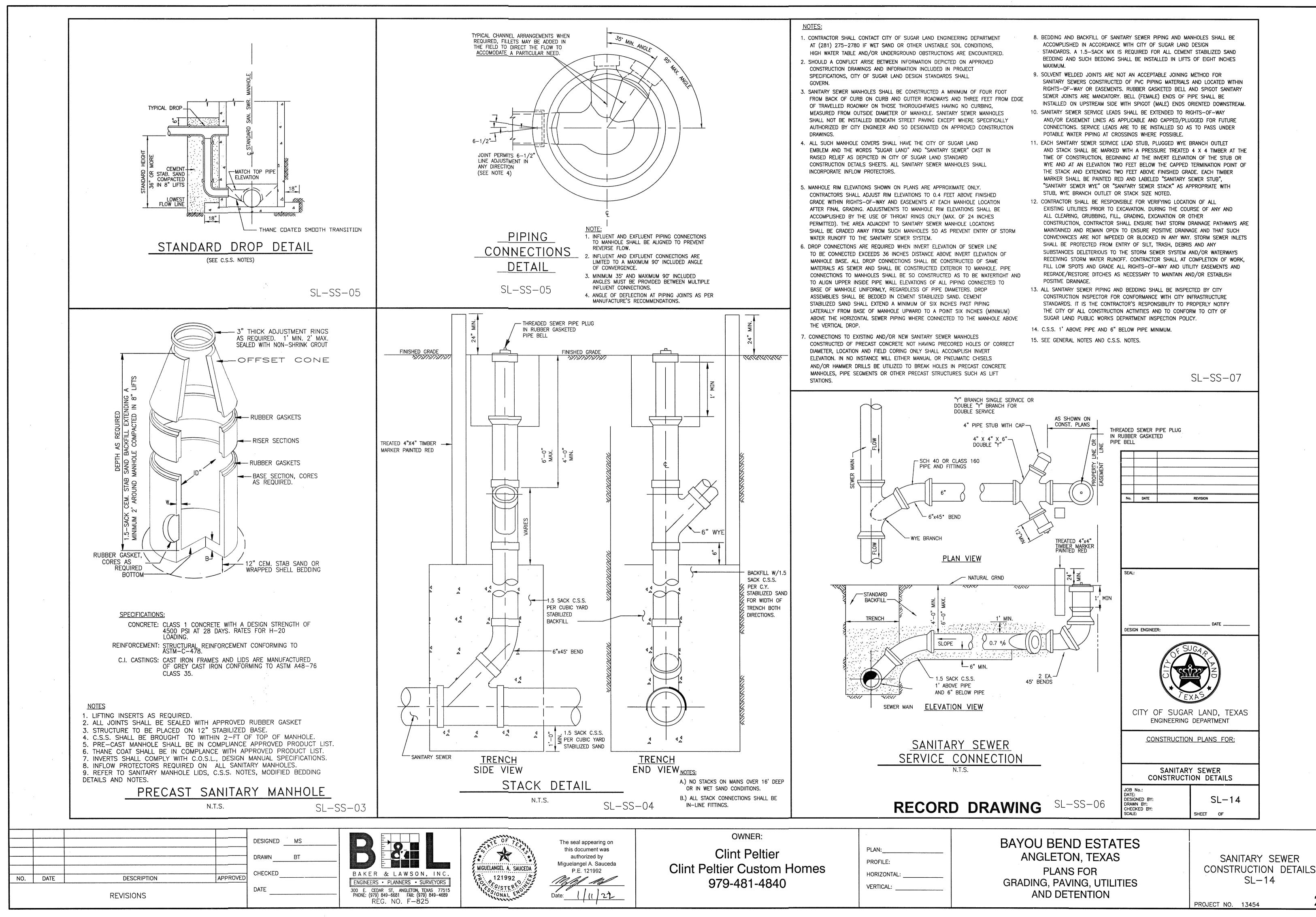
BAYOU BEND ESTATES
ANGLETON, TEXAS
PLANS FOR
GRADING, PAVING, UTILITIES
AND DETENTION

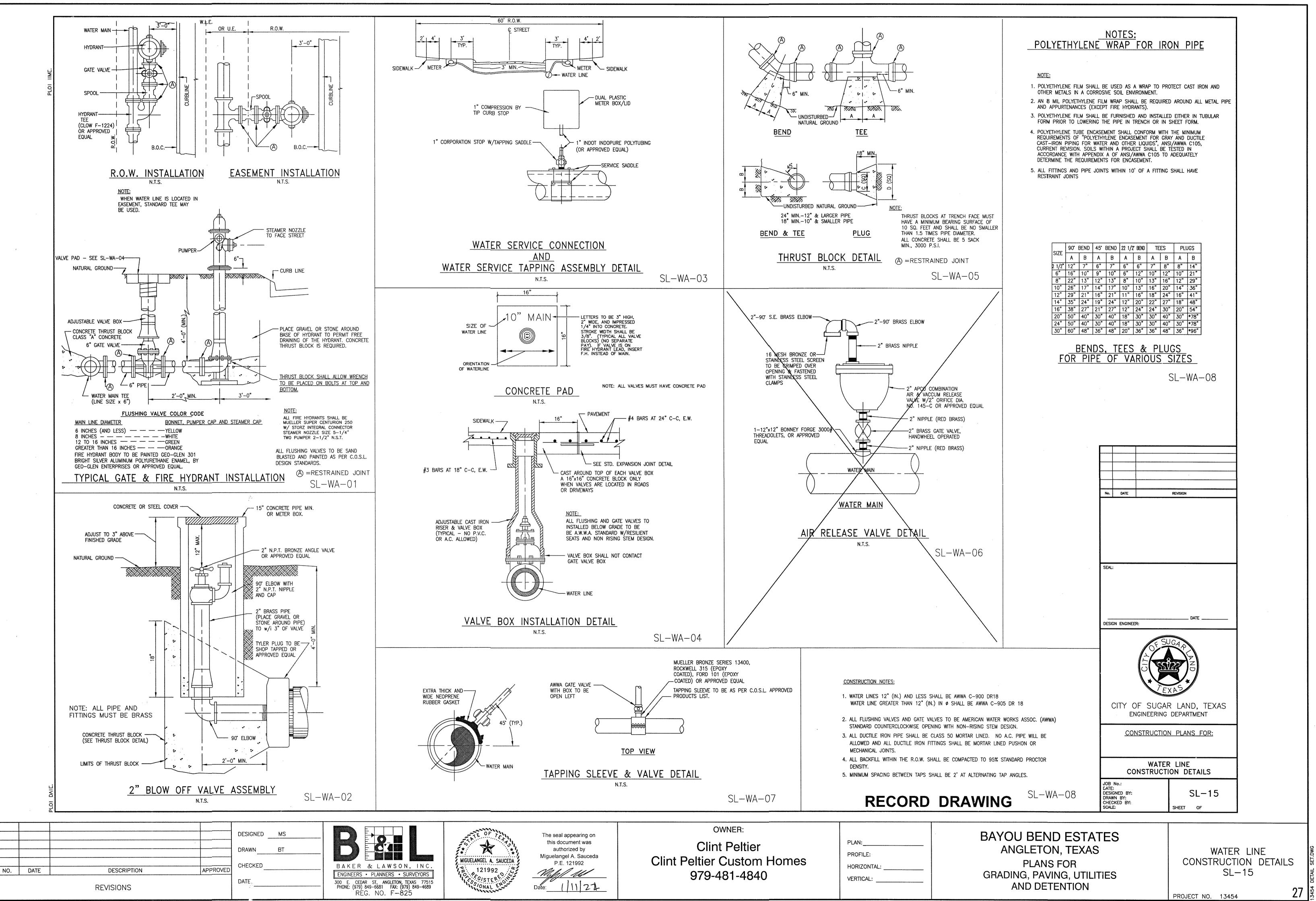
CONSTRUCTION DETAILS III

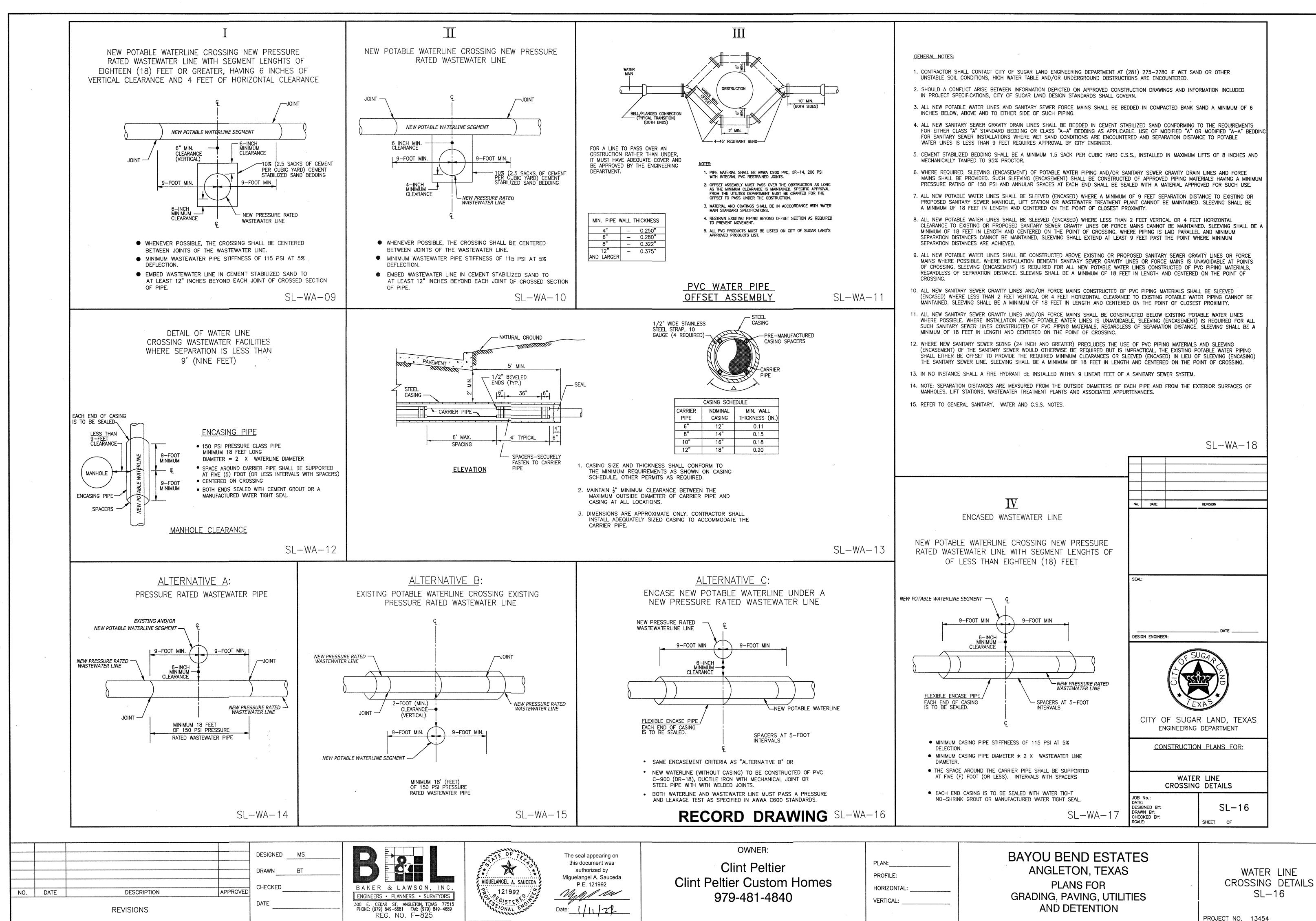


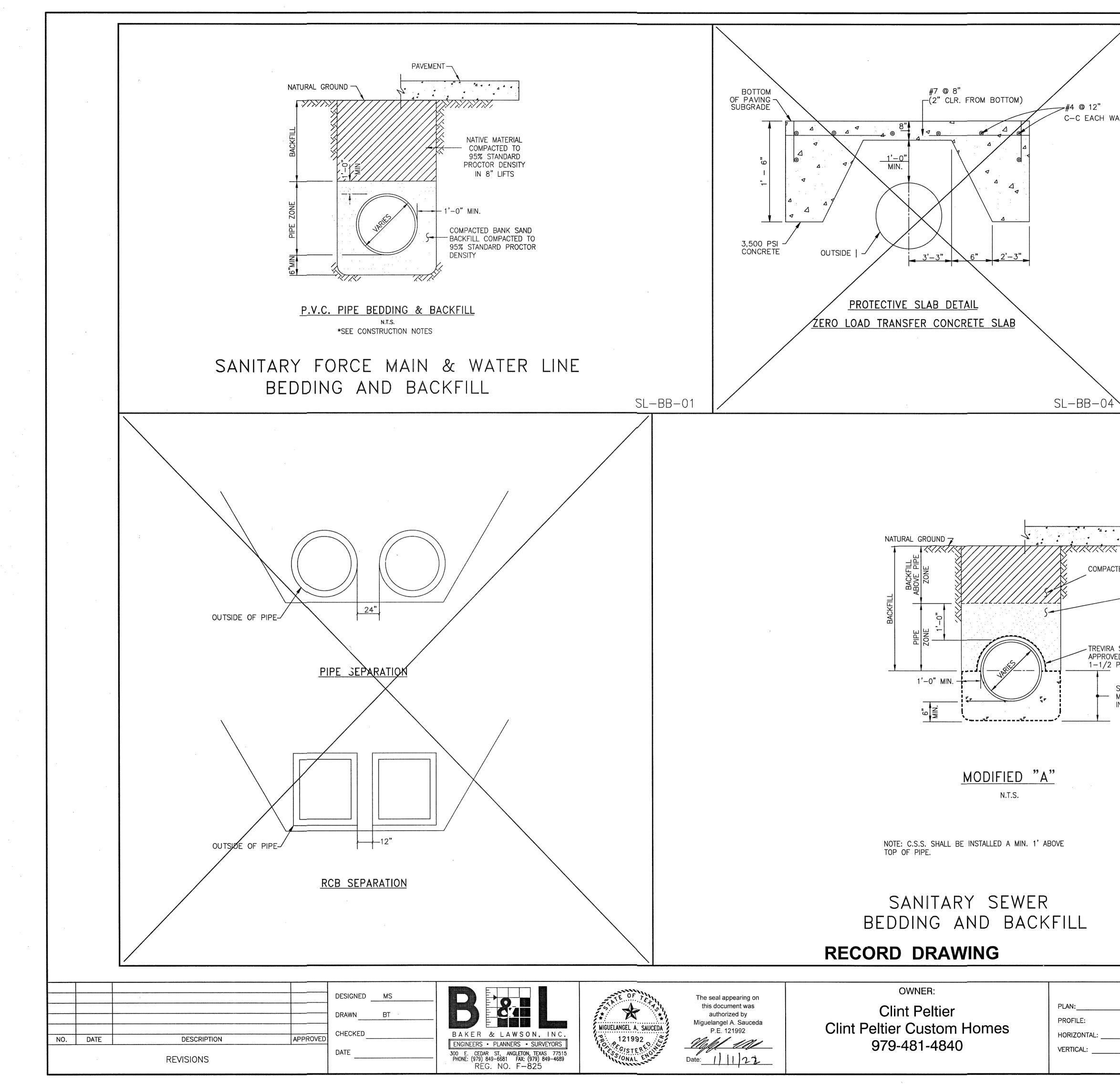


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		No. DATE		REVISION		
		SEAL:	,			
		DESIGN ENGINEER:		DATE		
			SIL			
				SA P		
				ZD		
				NS X		
				LAND, TEXAS		
				DEPARTMENT		
		CONS	STRUCTION	PLANS FOR:		
		JUNC	TION BO	(MANHOLES		
		JOB No.: DATE:				
	RECORD DRAWING	DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:		SL-11		
			l			
	BAYOU BEND ESTA	TES				
	ANGLETON, TEXAS			JUNCT	ON BOX	CHIC
.	PLANS FOR			MAN	HOLES	
	GRADING, PAVING, UTILI AND DETENTION	TIES		SL	.—11	
	AND DETENTION			PROJECT NO. 1345	4	25



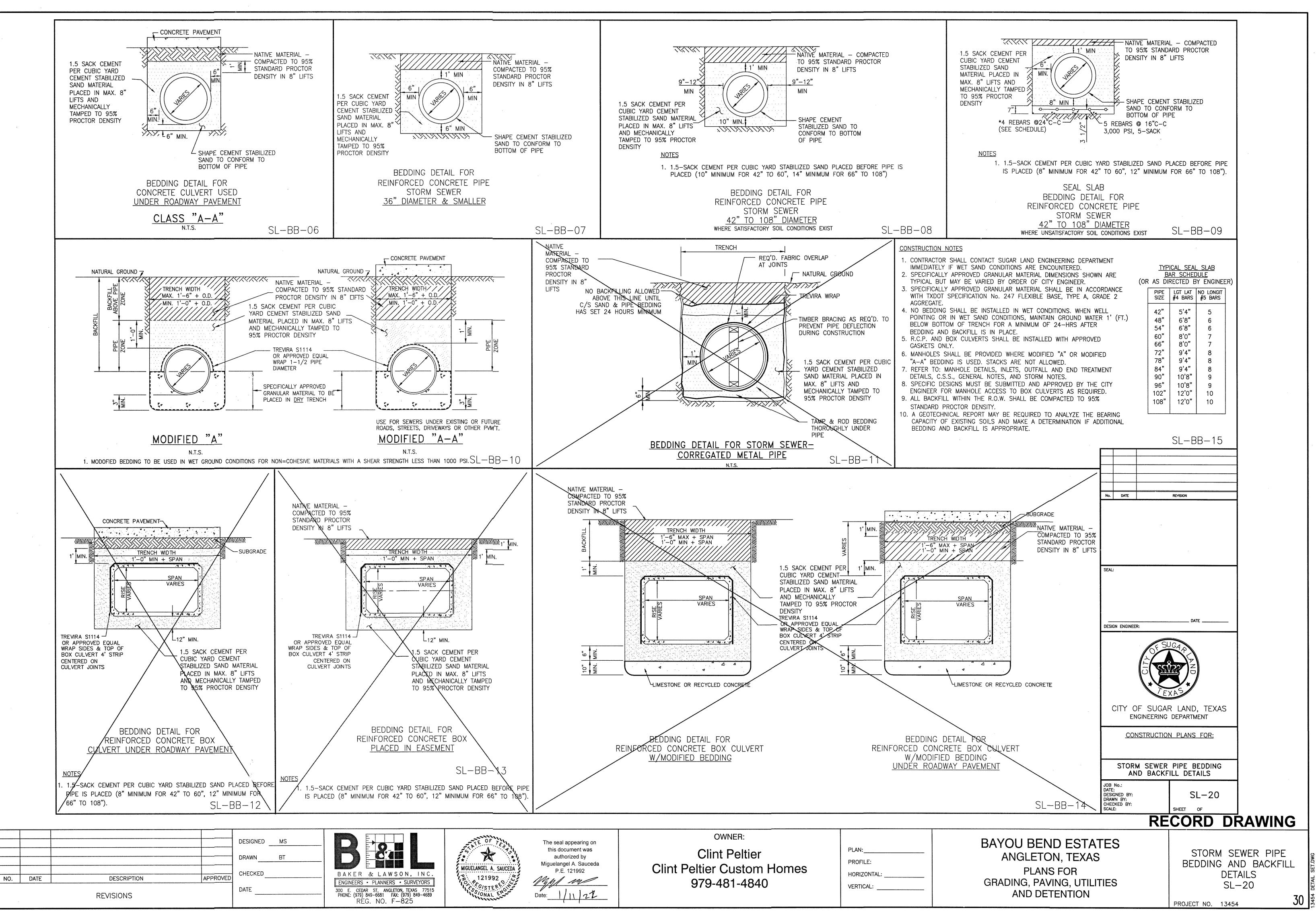


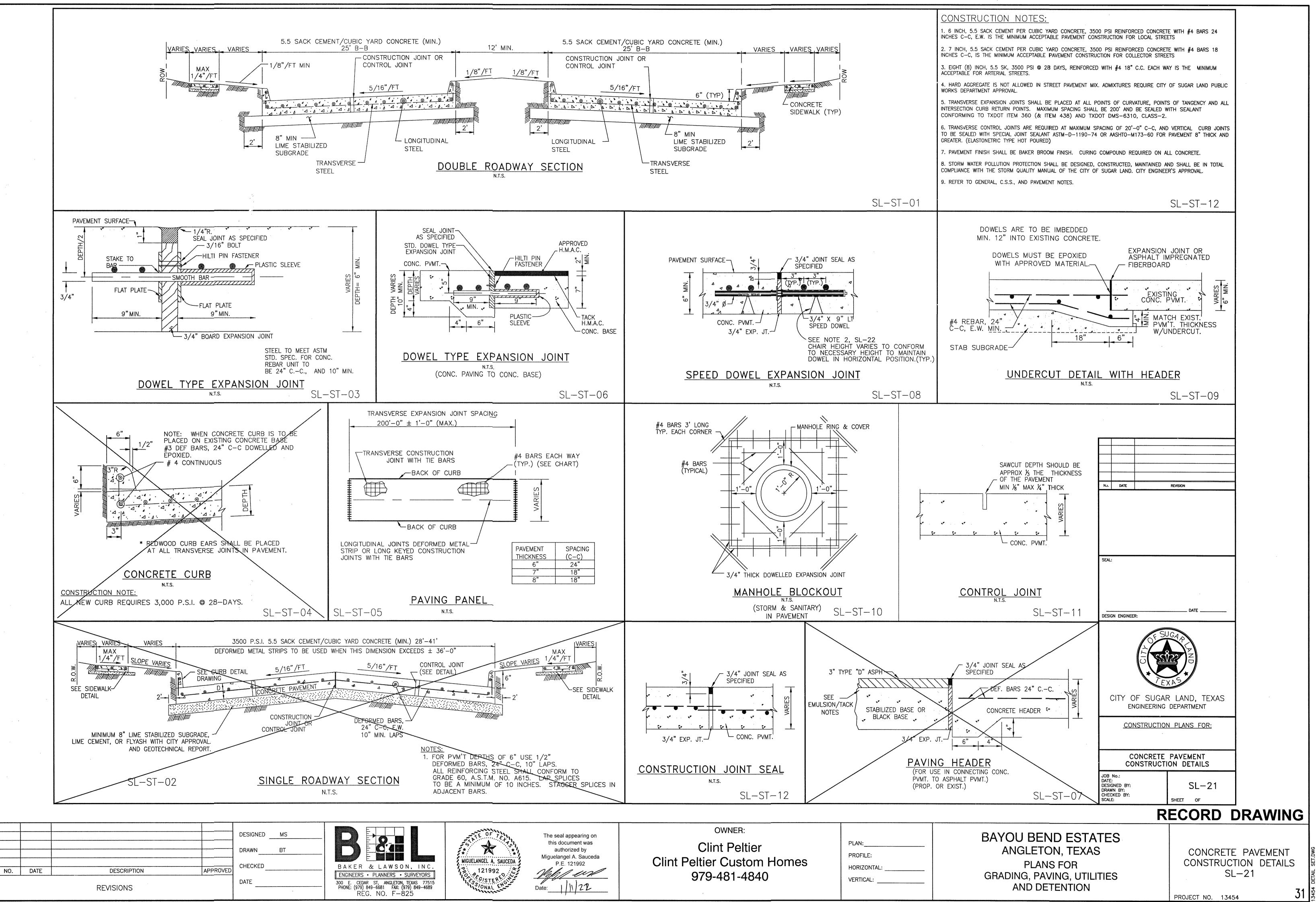




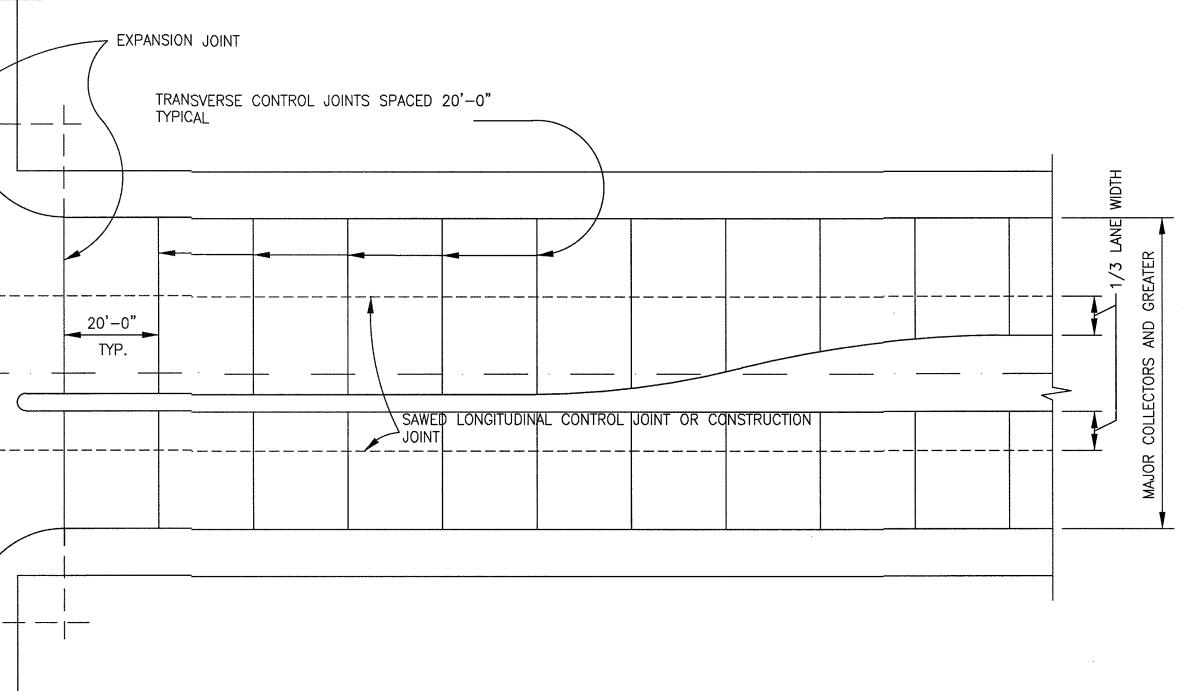
	CONSTRUCTION NOTES			
	1. CONTRACTOR SHALL CONTACT SUGAR LAND EN IMMEDIATELY IF WET SAND CONDITIONS ARE EN	NCOUNTERED.		
ΥY	2. LIMESTONE AND RECYCLED CONCRETE DIMENSI TYPICAL BUT MAY BE VARIED BY ORDER OF C	CITY ENGINEER.		
	 LIMESTONE OR RECYCLED CONCRETE SHALL B TXDOT SPECIFICATION No. 248 FLEXIBLE BASE AGGREGATE. 		,	
	4. NO BEDDING SHALL BE INSTALLED IN WET CO POINTING OR IN WET SAND CONDITIONS, MAINT BELOW BOTTOM OF TRENCH FOR A MINIMUM (AND BACKFILL IS IN PLACE.	TAIN GROUND WATER 1 (FT	Г) G	
	5. ALL MATERIALS SHALL BE FROM THE APPROVE SPECIFICALLY APPROVED BY THE CITY ENGINEE		5	
	6. SANITARY SEWER BEDDING FOR WET SAND CO SHALL BE AS PER MODIFIED "A".	NDITIONS		
	7. ALL SAND BEDDING FOR WATER LINES SHALL COMPACTED BANK SAND.	BE CLEAN, MECHANICALLY		
	 8. REFER TO: MANHOLE DETAILS, SANITARY, C.S.S. WATER DISTRIBUTION DETAILS AND NOTES. 9. ALL BEDDING WILL BE COMPACTED TO 95% STATE A CENTER INICAL DEPORT MAY DE DECUMPER. 	TANDARD PROCTOR DENSIT	Υ.	
	10. A GEOTECHNICAL REPORT MAY BE REQUIRED SOILS AND MAKE A DETERMINATION IF ADDITIONAL	BEDDING AND BACKFILL	IS APPROPRIATE.	
			SL-BB-05	
<u> </u>				
DENSIT 1.5 SA CUBIC	5% STANDARD PROCTOR (IN 8" LIFTS NCK CEMENT PER YARD CEMENT STABILIZED	No. DATE	REVISION	
DENSIT 1.5 SA CUBIC SAND AND M	(IN 8" LIFTS	No. DATE	REVISION	
DENSIT 1.5 SA CUBIC SAND AND M TO 95 S1114 C	Y IN 8" LIFTS ACK CEMENT PER YARD CEMENT STABILIZED MATERIAL PLACED IN MAX. 8" LIFTS ECHANICALLY TAMPED % PROCTOR DENSITY	No. DATE	REVISION	
DENSIT 1.5 SA CUBIC SAND AND M TO 95 S1114 C D EQUAL PIPE DIAM	Y IN 8" LIFTS ACK CEMENT PER YARD CEMENT STABILIZED MATERIAL PLACED IN MAX. 8" LIFTS ECHANICALLY TAMPED % PROCTOR DENSITY AR WRAP IETER	No. DATE	REVISION	
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DENSIT 1.5 SA CUBIC SAND AND M TO 95 S1114 C D EQUAL PIPE DIAM SPECIFICA	Y IN 8" LIFTS ACK CEMENT PER YARD CEMENT STABILIZED MATERIAL PLACED IN MAX. 8" LIFTS IECHANICALLY TAMPED % PROCTOR DENSITY IR WRAP IETER LLY APPROVED GRANULAR TO BE PLACED	SEAL:	REVISION	
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DENSIT 1.5 SA CUBIC SAND AND M TO 95 S1114 C D EQUAL PIPE DIAN SPECIFICA MATERIAL	(IN 8" LIFTS NCK CEMENT PER YARD CEMENT STABILIZED MATERIAL PLACED IN MAX. 8" LIFTS IECHANICALLY TAMPED % PROCTOR DENSITY R WRAP NETER LLY APPROVED GRANULAR TO BE PLACED RENCH. SL-BB-0	SEAL: DESIGN ENGINEER: CITY OF SU ENGINEER CONSTRUC	DATE DATE JGAR LAND, TEXAS RING DEPARTMENT CTION PLANS FOR: CTION PLANS FOR: CTION PLANS FOR:	

AND DETENTION





			A	
-				
•				
			TRANSVERSE CONTROL JOINT SPACED 20' TYPICAL	S
			JENCE ZU TIFICAL	
			CONSTRUCTION JOINT OR	
			LONGITUDINAL CONTROL JOIN C.L. OF ALL SINGLE ROAD- SECTIONS EXCEPT PAVEMENT	WAY
			THAN 14' WIDE.	
			ADDITIONAL SIMILAR JOINT ON CENTERS EACH SIDE C.L. FOR	10'-0" ROADWAY
			SECTIONS WIDER THAN 30'	
				LOCAL & COLL TYPE STREETS
		·		
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•				
				· · · · · · · · · · · · · · · · · · ·
			DESIGNED MS DRAWN BT	
•	NO. DATE	DESCRIPTION	APPROVED CHECKED	BAKER & LAWSON, INC
• •	NO. DATE	REVISIONS	DATE	ENGINEERS • PLANNERS • SURVEYORS 300 E. CEDAR ST, ANGLETON, TEXAS 775 PHONE: (979) 849–6681 FAX: (979) 849–468 REG. NO. F-825
		······································		REG. NO. F-825



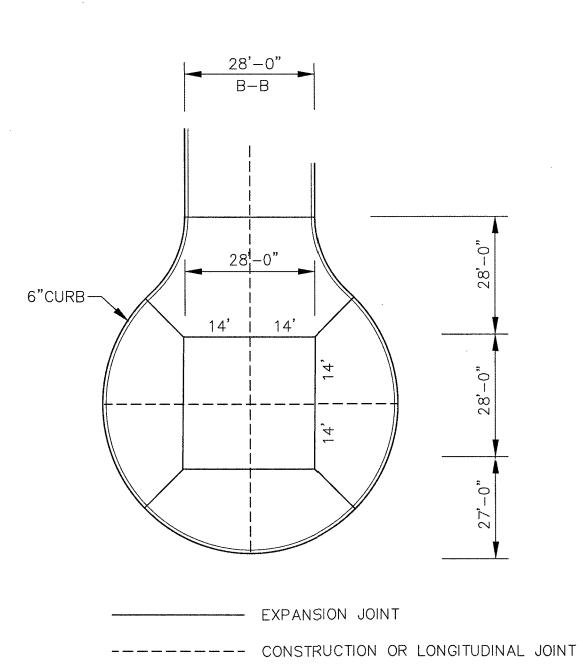
SPACING DIAGRAM FOR JOINTS

- 1. SPACING OF EXPANSION JOINTS SHALL NOT EXCEED 40 FEET. 2. ALL EXPANSION JOINT DOWEL BARS SHALL BE HELD FIRMLY IN PLACE PARALLEL WITH THE PAVEMENT SURFACE WITH WIRE BASKETS MODIFIED TO MOLD AROUND THE REDWOOD EXPANSION BOARD.
- 3. ALL TIE BARS SHALL BE 24" MIN. LENGTH AND CENTERED ON THE LONGITUDINAL JOINT.

----- EXPANSION JOINT

---- CONSTRUCTION OR LONGITUDINAL JOINT

: COLLECTOR REETS



TYPICAL JOINT LAYOUT FOR CUL-DE-SAC

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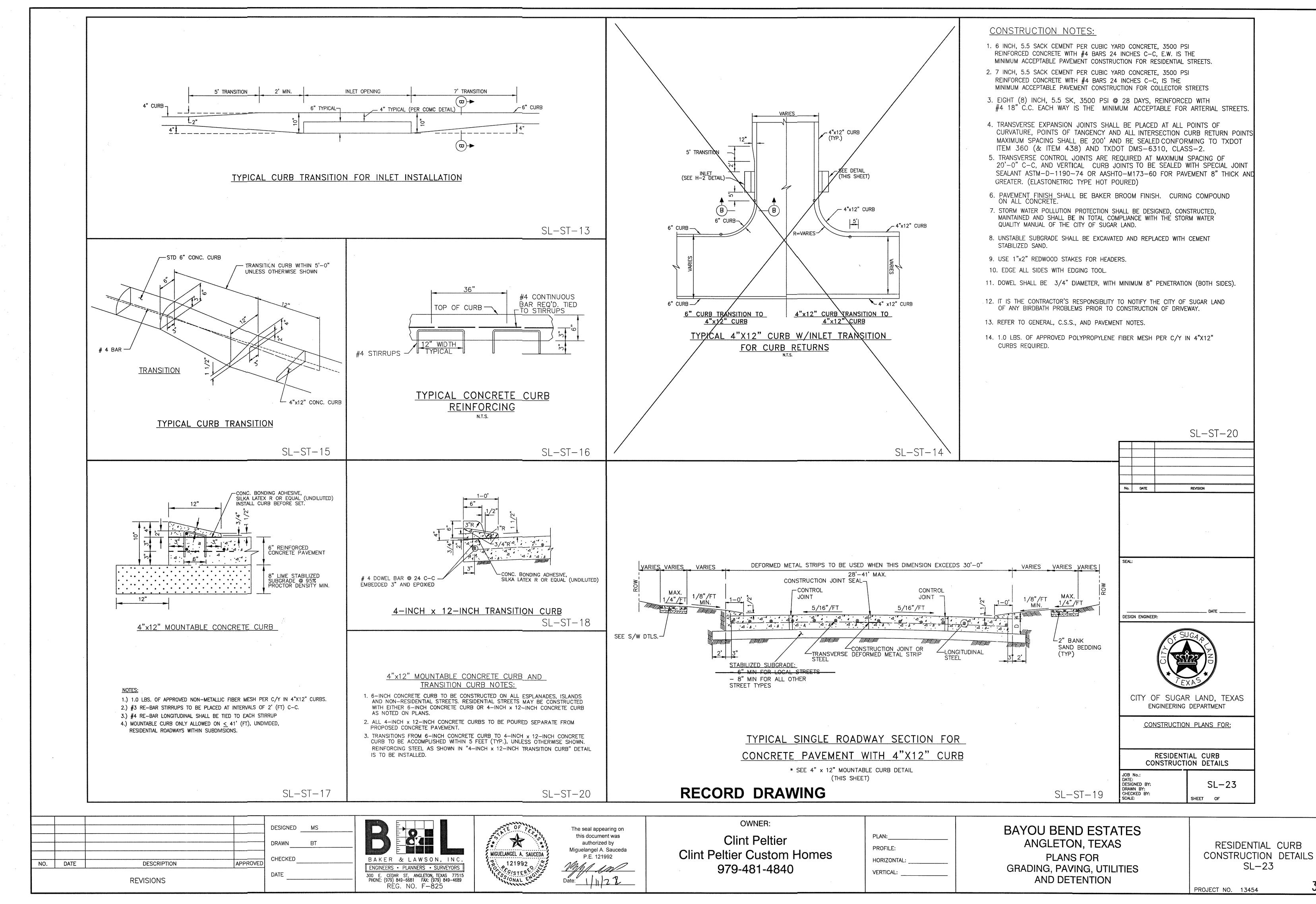
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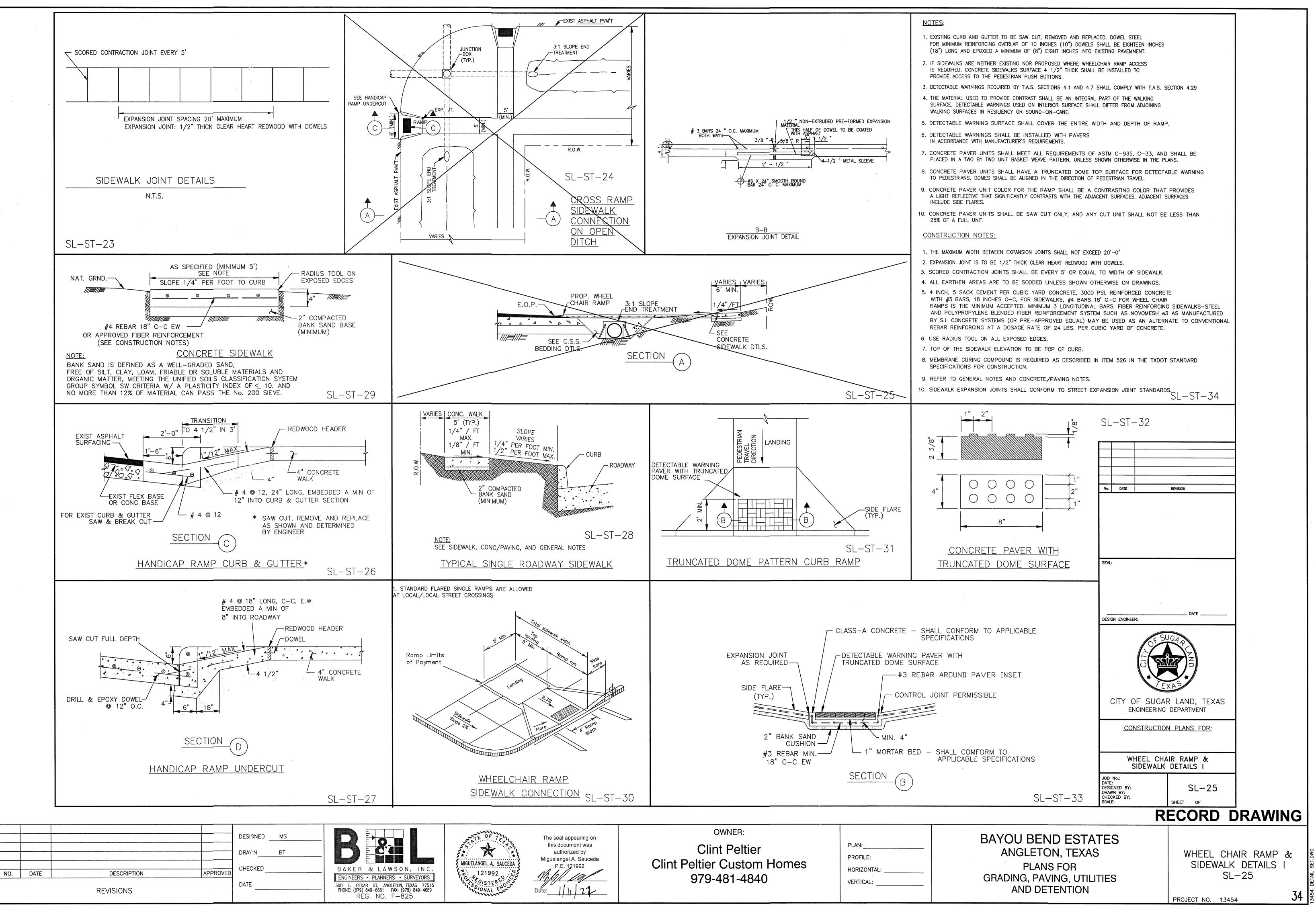
OWNER: **Clint Peltier Clint Peltier Custom Homes** 979-481-4840

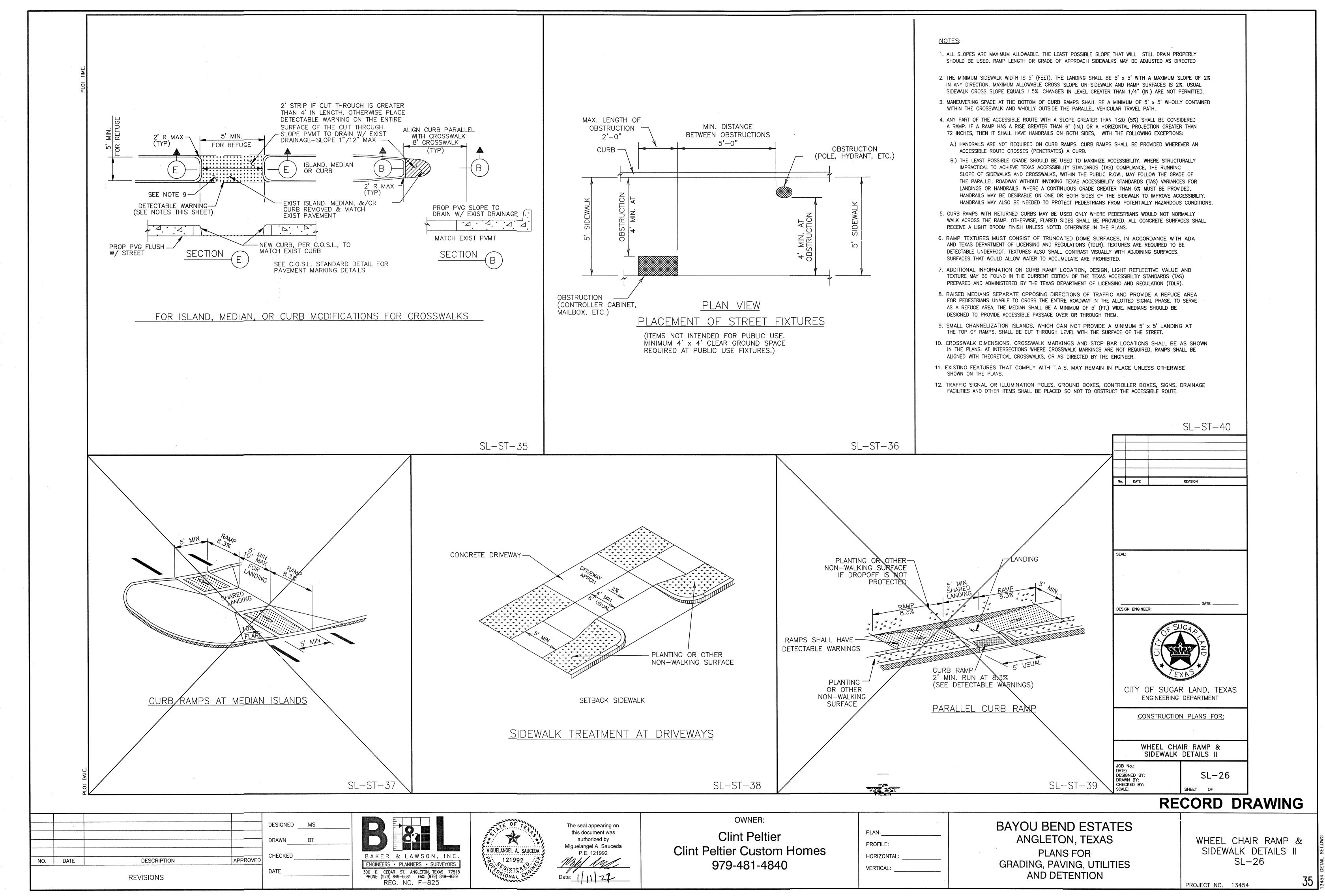
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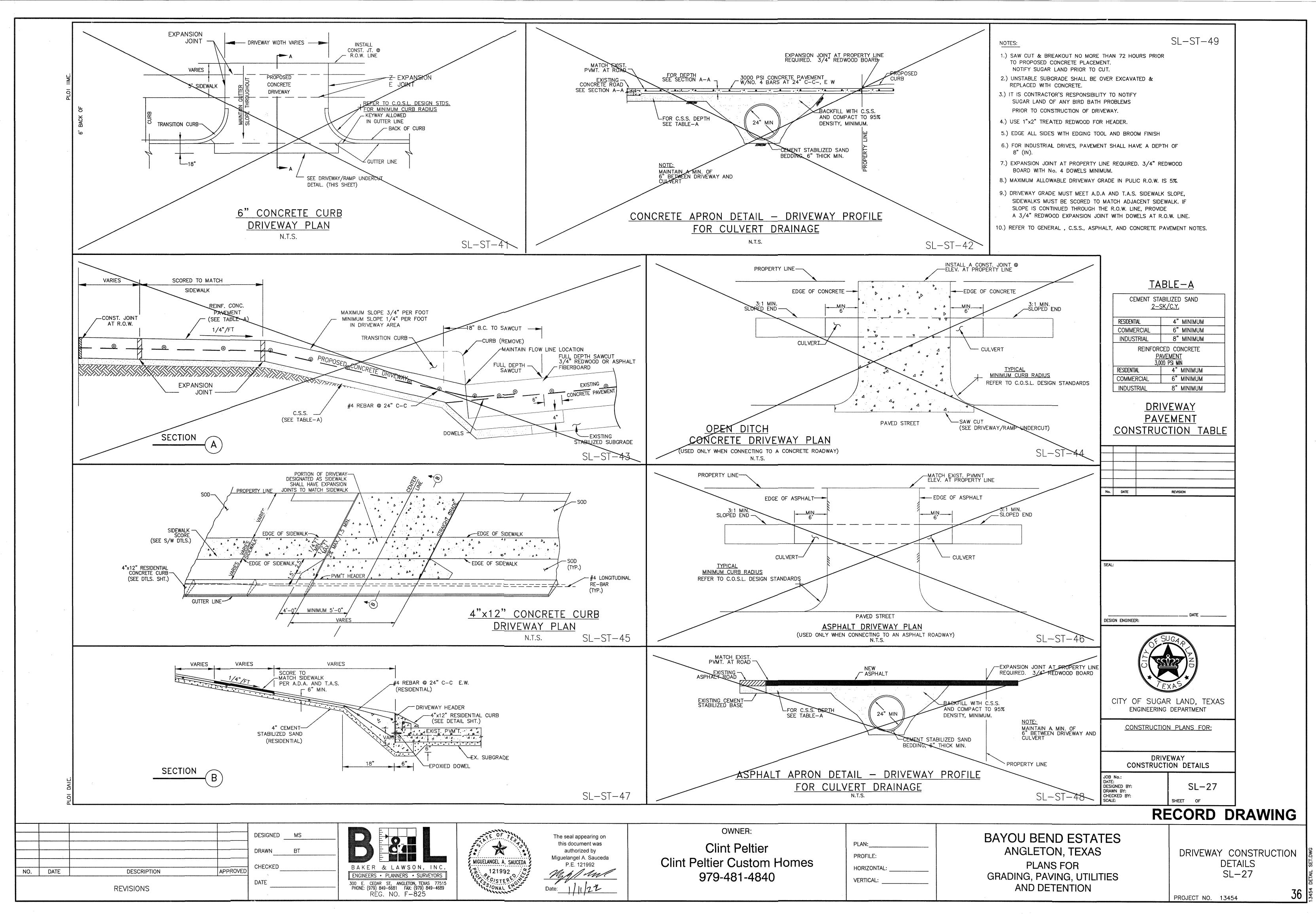
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HYPER-CHLORINATED WATER NOTES

- 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 MAY 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 DIRECTING THE DISCHARGE 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 ATTENUATE IS AFFECTED BY SOIL CONDITIONS AND WEATHER CONDITIONS. ATTENUATION WILL OCCUR QUICKEST DURING WARM, SUNNY, AND DRY PERIODS.

- STORMWATER RUNOFF.
- BE VACUUMED INTO A SEPTIC TRUCK BY THE COMPANY THAT MAINTAINS THE TOILETS.

SPILL AND LEAK RESPONSE NOTES

- 1. RECORDS OF RELEASES THAT EXCEED THE REPORTABLE QUANTITY (RQ) FOR OIL AND HAZARDOUS SUBSTANCES SHOULD BE MAINTAINED IN ACCORDANCE WITH THE FEDRAL AND STATE REGULATIONS.
- 2. EMERGENCY CONTACT INFORMATION AND SPILL RESPONSE PROCEDURES SHALL BE POSTED IN A READILY 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 5 GALLONS, OF 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 SUPERINTENDENT, FOREMAN, SAFETY OFFICER, 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.

SUBGRADE STABILIZATION NOTES

- 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. STABILIZATION SHALL NOT OCCUR IMMEDIATELY BEFORE AND DURING RAINFALL
- EVENTS. ALLOWED TO PASS OVER THE AREA BEING STABILIZED UNTIL AFTER COMPLETION OF MIXING THE CHEMICAL
- 4. NO TRAFFIC OTHER THAN WATER TRUCKS AND MIXING EQUIPMENT SHALL BE 5. AREA ADJACENT AND DOWNSTREAM OF STABILIZED AREAS SHALL BE
- VELOCITY.

- OVERFLOW.

Image: Second	BAKER & LAWSON, INC. ENGINEERS • PLANNERS • SURVEYORS 300 E. CEDAR ST, ANGLETON, TEXAS 77515 PHONE: (979) 849-6681 FAX: (979) 849-4689 REG. NO. F-825	The seal appearing on this document was authorized by Miguelangel A. Sauceda P.E. 121992 GISTERFORMAL Date:	OWNER: Clint Peltier Clint Peltier Custom Homes 979-481-4840	PLAN: PROFILE: HORIZONTAL: VERTICAL:
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SANITARY WASTE NOTES

- 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 PROVIDE IN CASE OF SPILLS. 3. THE LOCATION OF THE PORTABLE TOILETS SHALL BE ACCESSIBLE TO MAINTENANCE TRUCKS WITHOUT DAMAGING EROSION AND SEDIMENT CONTROLS
- OR CAUSING EROSION OR TRACKING PROBLEMS. 4. SANITARY FACILITIES SHALL BE FULLY ENCLOSED AND DESIGNED IN A MANNER THAT MINIMIZES THE EXPOSURE OF SANITARY WASTE TO PRECIPITATION AND
- 5. WHEN HIGH WINDS ARE EXPECTED, PORTABLE TOILETS SHALL BE ANCHORED OR OTHERWISE SECURED TO PREVENT THEM FROM BEING BLOWN OVER. 6. THE COMPANY THAT SUPPLIES AND MAINTAINS THE PORTABLE TOILETS SHALL BE NOTIFIED IMMEDIATELY IF A TOILET IS TIPPED OVER OR DAMAGED IN A WAY THAT THE RESULTS IN A DISCHARGE. DISCHARGED SOLID MATTER SHALL
- 7. THE OPERATOR OF THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL BE NOTIFIED IF A DISCHARGE FROM THE PORTABLE TOILETS ENTERS THE MS4 OR A NATURAL CHANNEL 8. SANITARY FACILITIES SHALL NOT BE PERMITTED ON PUBLIC SIDEWALKS, STREETS OR INLETS.

DEBRIS AND TRASH NOTES

- 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 20 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. SEGREGATE 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
- CONSTRUCTION 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 OTHER WISE
- DISPOSED OF ONSITE. 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.

- ROUGHENED TO INTERCEPT CHEMICAL RUNOFF AND REDUCE RUNOFF
- 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 OPENING 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
- 8. THE CONTRACRTOR SHALL INSTALL BMP'S TO ALL INLETS AND OPENINGS CONNECTED TO THE STORM SEWER SYSTEMS TO PREVENT LIME FROM ENTERING THE MS4 SYSTEM.

SANDBLASTING WASTE NOTES

- 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. CEASE BLASTING ACTIVITIES IN HIGH WINDS OR IF WIND DIRECTION COULD TRANSPORT GRIT TO DRAINAGE FACILITIES.
- . 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. NON-HAZARDOUS SANDBLAST GRIT MAY BE DISPOSED IN 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 SAND FENCING WHERE APPRORIATE 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. SAND BLASTING MEDIA SHOULD ALWAYS BE STORED UNDER COVER AWAY
- FROM DRAINAGE 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. CAPTURE AND TREAT RUNOFF, WHICH COMES INTO CONTACT WITH SANDBLASTING MATERIALS OR WASTE.

CONCRETE SAWCUTTING WASTE NOTES

- 1. DURING SAWCUTTING OPERATIONS, THE SLURRY AND CUTTINGS SHALL BE CONTINUOUSLY VACUUMED OR OTHERWISE RECOVERED AND NOT BE ALLOWED TO DISCHARGE FROM THE SITE. 2. IF THE PAVEMENT TO BE CUT 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 MILIMETERS 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 CONSTRUCTING A SEPARATE CONTAINMENT.
- 7. THE CONTAINMENT 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 THE COLLECTION AREA BE CLOSER THAN 20 FEET FROM INLETS.
- SWALES, DRAINAGE WAYS, CHANNELS AND OTHER WATERS. 8. SEVERAL, PORTABLE, PRE-FABRICATED, CONCRETE WASHOUT, COLLECTION BASINS ARE COMMERCIALLY AVAILABLE AND ARE AN ACCEPTABLE ALTERNATIVE TO AN ONSITE CONTAINMENT PIT.
- 9. REMOVE WASTER CONCRETE WHEN THE CONTAINMENT IS HALF FULL. ALWAYS MAINTAIN A MINIMUM OF ONE FOOT FREEBOARD.
- 10. ONSITE EVAPORATION OF SLURRY WATER AND RECYCLING OF THE CONCRETE WASTE IS THE PREFERRED DISPOSAL METHOD. WHEN THIS IS NOT FEASIBLE. DISCHARGE FROM THE COLLECTION AREA SHALL ONLY BE ALLOWED IF A PASSIVE TREATMENT SYSTEM IS USED TO REMOVE THE FINES. MECHANICAL MIXING IS REQUIRED IN THE COLLECTION AREA. THE pH MUST BE TESTED, AND DISCHARGED IS ALLOWED IN IF THE DH DOES NOT EXCEED 8.0. THE DH MAY BE LOWERED BY ADDING SULFURIC ACID TO THE SLURRY WATER.
- 11. CARE SHALL BE EXERCISED WHEN TREATING THE SLURRY WATER FOR DISCHARGE. MONITORING MUST BE IMPLEMENTED TO VERIFY THAT DISCHARGES FROM THE COLLECTION AREA DO NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
- 12. GEOTEXTILE FABRICS 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.

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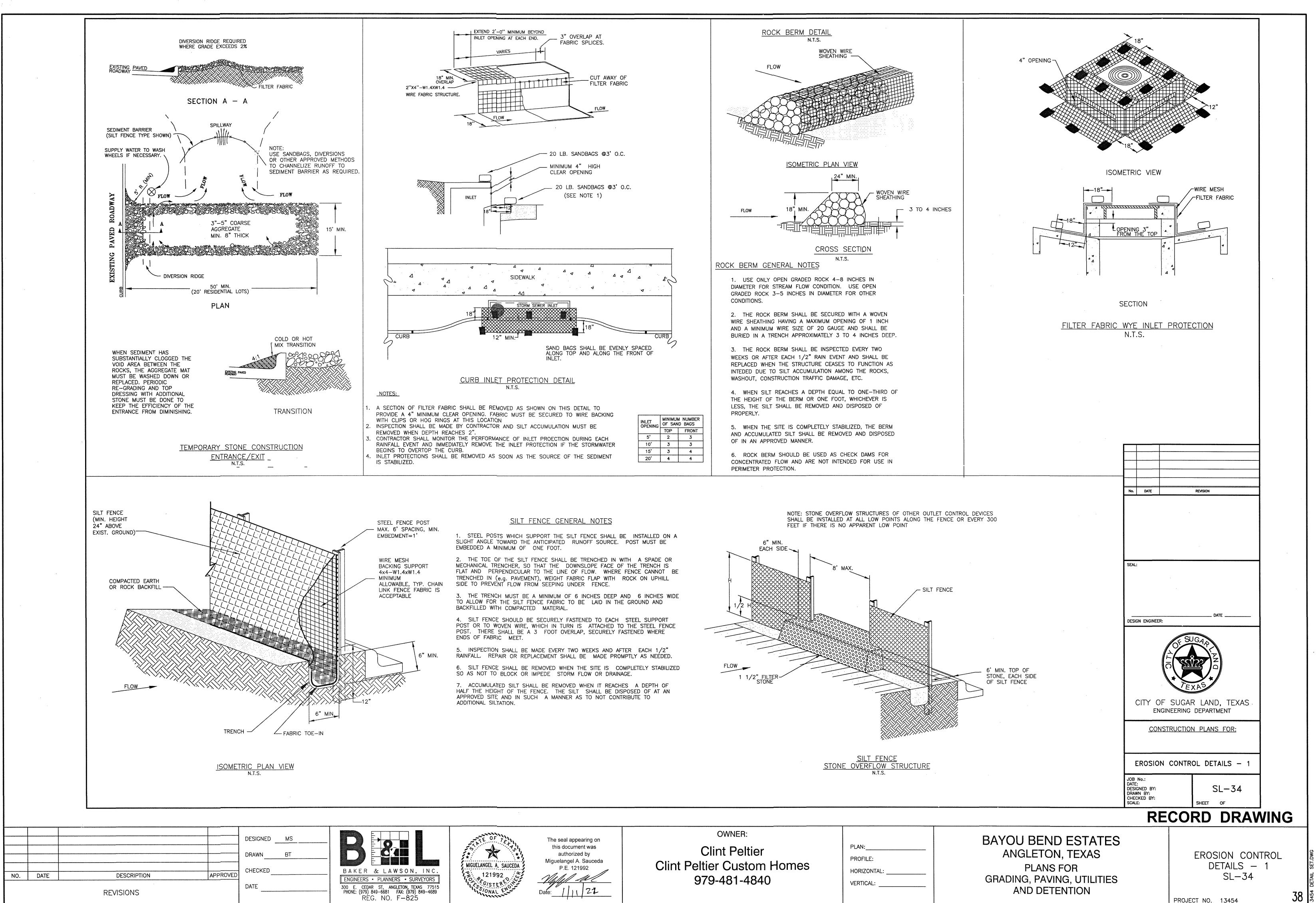
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PROJECT NO. 13454

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GENERAL EROSION CONTROL NOTES SL-33

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