PROJECT LOCATION MAP

PROJECT BENCHMARK

SITE TBM #51 E: 2758189.998

ELEV: 1704.62 SITE TBM #54 SET HMT 12 CONTROL N: 10058455.245

E: 2759244.727 ELEV: 1685.09

LEGAL DESCRIPTION

BEING A TOTAL OF 26.83 ACRES OF LAND LOCATED IN THE JOSE ESTEBAN BARGAS, SURVEY, A-53, GILLESPIE COUNTY, TEXAS. BEING PART OF A CALLED 111.44 ACRE TRACT, RECORDED IN DOCUMENT NO. 20193419 OF THE OFFICIAL PUBLIC RECORDS OF GILLESPIE COUNTY, TEXAS

E: 2758458.655

ELEV: 1700.68

DISTRICT ENGINEER

DISCLAIMER:

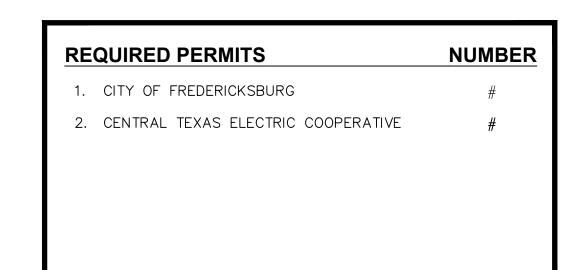
THE DISTRICT'S REVIEW OF THE PLANS IS LIMITED TO ASPECTS CONCERNING WATER, WASTEWATER, DRAINAGE, AND ROADS, THIS REVIEW DOES NOT ENCOMPASS AN ASSESSMENT OF THE OVERALL ADEQUACY OF THE DESIGN FOR THE FACILITIES. IN APPROVING THESE PLANS, THE DISTRICT RELIES SOLELY ON THE ADEQUACY OF THE WORK PERFORMED BY THE DESIGN ENGINEER.

FRIENDSHIP OAKS UNIT 3

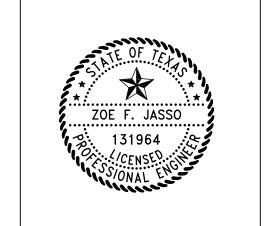
FREDERICKSBURG, TEXAS CIVIL SITE CONSTRUCTION PLANS GILLESPIE COUNTY MUD 1

LENNAR HOMES OF TEXAS LAND AND CONSTRUCTION, LTD

100 NE LOOP, SUITE 1155 SAN ANTONIO, TEXAS 78216



NOVEMBER 2024



ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF NEW BRAUNFELS MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.



PREPARED BY:

ENGINEERING & SURVEYING

290 S. CASTELL AVE., STE. 100 P(830)625-8555*F(830)625-8556 TBPELS FIRM F-10961 | TBPELS FIRM 1053600

NOTE TO CONTRACTOR:

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

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WASTEWATER LN E PLAN & PROFILE

|WASTEWATER LN | PLAN & PROFILE

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THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT EACH OF THE INDIVIDUAL UTILITIES FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

ANY QUANTITIES PROVIDE BY HMT OR OWNER ON THE PLANS, OPINION OF PROBABLE COST, BID SUMMARIES, ETC. ARE FOR CURSORY USE ONLY. CONTRACTOR IS RESPONSIBLE FOR BIDDING SIGNED AND SEALED CONSTRUCTION PLANS. IF A DISCREPANCY EXIST, CONTRACTOR SHALL CONTACT

CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION AND ELEVATION OF ALL DOWNSTREAM CONNECTION POINTS PRIOR TO CONSTRUCTION. IF A DISCREPANCY EXIST, CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY.

CONTRACTOR SHALL INSTALL ALL GRAVITY SEWER, GRAVITY STORM SEWER, CURBS AND PAVEMENT FROM THE MOST DOWNSTREAM POINT OF CONNECTION. IF IMPROVEMENTS ARE CONSTRUCTED FROM UPSTREAM TO DOWNSTREAM, THEN THE CONTRACTOR WILL TAKE FULL RISK AND LIABILITY OF ANY ISSUES THAT MIGHT ARISE FROM FLOWLINE ELEVATION DISCREPANCIES, UTILITY CONFLICTS, ETC.

CONTRACTOR IS RESPONSIBLE FOR THE STOCKPILING OF ANY EXCESS DIRT. ALL BIDS FROM CONTRACTOR SHOULD ACCOUNT FOR THE REMOVAL AND PLACEMENT OF ALL EARTHWORK TO INCLUDE STOCKPILING, EXPORT, IMPORT, ETC. IF A LOCATION OF PLACEMENT OF EXCESS DIRT IS NOT SHOWN ON THE PLANS, THEN CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY TO DETERMINE THE MOST SUITABLE STOCKPILE LOCATION.

GENERAL NOTES:

1. IF CONSTRUCTION HAS NOT COMMENCED WITHIN ONE—YEAR OF CITY APPROVAL FOR CONSTRUCTION INSPECTION, THAT APPROVAL IS NO LONGER VALID. 2. THE MOST CURRENT EDITIONS OF THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS AND THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES SHALL BE FOLLOWED FOR ALL CONSTRUCTION EXCEPT AS AMENDED BY THE

SCALE: N.T.S.

- CITY OF FREDERICKSBURG STANDARD DETAILS. 3. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF FREDERICKSBURG MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER IN RECORD.
- 4. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE CITY OF FREDERICKSBURG TO SET A PRE-CONSTRUCTION MEETING. A 48-HOUR ADVANCED NOTIFICATION IS REQUIRED FOR ALL INSPECTION AND MEETING REQUESTS.
 - 4.1 ALL INSPECTIONS ARE TO BE CALLED IN AT 830-990-2009 OR, 4.2 4.3 E-MAILED AT EWILLIAMSON@FBGTX.ORG.
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PLANS AND LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES MAY BE ORDERED BY THE ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- IMPERVIOUS COVER TO THE SITE. 7. NO PORTION OF THE SUBDIVISION IS LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREA (100 YR. FLOOD), AS DEFINED BY THE GILLESPIE COUNTY, TEXAS, FIRM PANEL NUMBER 48171C0288C EFFECTIVE DATE OCTOBER, 19, 2001, AS PREPARED BY THE FÉDERAL EMERGENCY MANAGEMENT AGENCY.

6. DRAINAGE IMPROVEMENTS SUFFICIENT TO MITIGATE OFFSITE IMPACT OF CONSTRUCTION MUST BE COMPLETED AND IN PLACE PRIOR TO ADDING

- 8. THIS PROJECT IS NOT LOCATED WITHIN THE EDWARDS AQUIFER RECHARGE, TRANSITION OR CONTRIBUTING ZONE. 9. GAS UTILITIES ARE NOT INCLUDED IN THE CIVIL CONSTRUCTION PLANS. FINAL GAS UTILITY DESIGN SHALL BE APPROVED BY THE CITY FOR ANY WORK
- 10. THE ENGINEER OF RECORD ACKNOWLEDGES THAT ALL PROPOSED WATER AND WASTEWATER IMPROVEMENTS MUST COMPLY WITH TCEQ AND THE CITY OF
- WITHIN PUBLIC RIGHT-OF-WAY, IF APPLICABLE. FREDERICKSBURG WATER CONNECTION POLICY, SOUND ENGINEERING JUDGEMENT AND ANY OTHER GOVERNING ENTITY ORDINANCES OR CODES.

TCEQ WATER DISTRIBUTION SYSTEM **GENERAL CONSTRUCTION NOTES**

- This water distribution system must be constructed in accordance with the current Texas Commission on Environmental Quality (TCEQ) Rules and Regulations for Public Water Systems 30 Texas Administrative Code (TAC) Chapter 290 Subchapter D. When conflicts are noted with local standards, the more stringent requirement shall be applied. At a minimum, construction for public water systems must always meet TCEQ's "Rules and Regulations for Public Water Systems."
- All newly installed pipes and related products must conform to American National Standards Institute (ANSI)/NSF International Standard 61 and must be certified by an organization accredited by ANSI [§290.44(a)(1)].
- Plastic pipe for use in public water systems must bear the NSF International Seal of Approval (NSF-pw) and have an ASTM design pressure rating of at least 150 psi or a standard dimension ratio of 26 or less [§290.44(a)(2)].
- No pipe which has been used for any purpose other than the conveyance of drinking water shall be accepted or relocated for use in any public drinking water supply $[\S 290.44(a)(3)].$
- All water line crossings of wastewater mains shall be perpendicular [§290.44(e)(4)(B)].
- Water transmission and distribution lines shall be installed in accordance with the manufacturer's instructions. However, the top of the water line must be located below the frost line and in no case shall the top of the water line be less than 24 inches below ground surface [§290.44(a)(4)].
- The maximum allowable lead content of pipes, pipe fittings, plumbing fittings, and fixtures is 0.25 percent [§290.44(b)].
- The contractor shall install appropriate air release devices with vent openings to the atmosphere covered with 16-mesh or finer, corrosion resistant screening material or an acceptable equivalent [§290.44(d)(1)].
- The contractor shall not place the pipe in water or where it can be flooded with water or sewage during its storage or installation [§290.44(f)(1)].
- When waterlines are laid under any flowing or intermittent stream or semi-permanent body of water the waterline shall be installed in a separate watertight pipe encasement. Valves must be provided on each side of the crossing with facilities to allow the underwater portion of the system to be isolated and tested [§290.44(f)(2)].
- Pursuant to 30 TAC §290.44(a)(5), the hydrostatic leakage rate shall not exceed the amount allowed or recommended by the most current AWWA formulas for PVC pipe, cast iron and ductile iron pipe. Include the formulas in the notes on the plans.
 - The hydrostatic leakage rate for polyvinyl chloride (PVC) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C-605 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use;

 $Q = \frac{148,000}{148,000}$

- Q = the quantity of makeup water in gallons per hour,
- L = the length of the pipe section being tested, in feet,
- D = the nominal diameter of the pipe in inches, and
- P = the average test pressure during the hydrostatic test in pounds per square inch (psi).
- o The hydrostatic leakage rate for ductile iron (DI) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C-600 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use;

 $SD\sqrt{P}$ $L = \frac{35 \text{ V}}{148,000}$

- L = the quantity of makeup water in gallons per hour,
- S = the length of the pipe section being tested, in feet,
- D = the nominal diameter of the pipe in inches, and
- P = the average test pressure during the hydrostatic test in pounds per square inch (psi).
- The contractor shall maintain a minimum separation distance in all directions of nine feet between the proposed waterline and wastewater collection facilities including manholes. If this distance cannot be maintained, the contractor must immediately notify the project engineer for further direction. Separation distances, installation methods, and materials utilized must meet §290.44(e)(1)-(4).
- 13. The separation distance from a potable waterline to a wastewater main or lateral manhole or cleanout shall be a minimum of nine feet. Where the nine-foot separation distance cannot be achieved, the potable waterline shall be encased in a joint of at least 150 psi pressure class pipe at least 18 feet long and two nominal sizes larger than the new conveyance. The space around the carrier pipe shall be supported at five-foot intervals with spacers or be filled to the springline with washed sand. The encasement pipe shall be centered on the crossing and both ends sealed with cement grout or manufactured sealant [§290.44(e)(5)].
- Fire hydrants shall not be installed within nine feet vertically or horizontally of any wastewater line, wastewater lateral, or wastewater service line regardless of construction [§290.44(e)(6)].
- 15. Suction mains to pumping equipment shall not cross wastewater mains, wastewater laterals, or wastewater service lines. Raw water supply lines shall not be installed within five feet of any tile or concrete wastewater main, wastewater lateral, or wastewater service line [$\S 290.44(e)(7)$].
- 16. Waterlines shall not be installed closer than ten feet to septic tank drainfields [§290.44(e)(8)].
- 17. The contractor shall disinfect the new waterlines in accordance with AWWA Standard C-651-14 or most recent, then flush and sample the lines before being placed into service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure which shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed waterline will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer $[\S 290.44(f)(3)].$
- 18. Dechlorination of disinfecting water shall be in strict accordance with current AWWA Standard C655-09 or most recent.

GENERAL NOTES

ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL COMPLY WITH:

A. CURRENT CITY OF FREDERICKSBURG CONSTRUCTION SPECIFICATIONS AND STANDARDS AS OF THE DATE OF THIS CONTRACT

B. THE MOST CURRENT EDITION OF TEXAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES".

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST CURRENT TEXAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES." ALONG WITH CURRENT CITY OF FREDERICKSBURG AND GILLESPIE COUNTY SPECIFICATIONS. ANY DISCREPANCIES BETWEEN SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

CONTRACTOR SHALL PROCURE ALL PERMITS AND LICENSES, PAY ALL CHARGES, FEES, AND TAXES AREA AND GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE WORK.

ANY EXISTING OFF-SITE IMPROVEMENTS THAT ARE DAMAGED OR UNDERCUT BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE OWNER OF THE EXISTING IMPROVEMENT AT THE CONTRACTOR'S EXPENSE. (NO SEPARATE PAY ITEM)

WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR CONSENT OF THE OWNER OR ENGINEER WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.

CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON PROJECT COMPLETION. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100YR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.

BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND SHALL BE LOCATED TO PROVIDE MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT WHILE PROVIDING CONTINUOUS TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL DEVICES DURING CONSTRUCTION.

CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. THE TERM "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY BOTH HORIZONTAL AND VERTICAL ALIGNMENT.

WHEN MATCHING EXISTING PAVEMENTS, CURBS, DRIVES, AND WALKS, THEY SHALL BE SAW CUT FULL DEPTH AND REMOVED TO ALLOW FOR PROPOSED CONSTRUCTION. IF ANY EXISTING JOINT IS ENCOUNTERED, PRECAUTION SHALL BE TAKEN DURING REMOVAL OF CONCRETE SO AS NOT TO DAMAGE EXISTING DOWELS. ALL EXISTING DOWELS SHALL BE EXPOSED AND CLEANED.

ITEM OF WORK DESIGNATED "BY OTHERS" SHALL NOT BE CONSIDERED PART OF THIS CONTRACT.

ALL "COMPACTED SUBGRADE" SHALL CONSIST OF NATIVE MATERIAL SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES AND COMPACTED TO 95% DENSITY ACCORDING TO DENSITY TEST METHOD TEX-115E OR ACCORDING TO ASTM D-698 AND TESTED BY ASTM D-2922.

ALL "FLEXIBLE BASE" SHALL BE TYPE "A", GRADE 4, ACCORDING TO TXDOT ITEM 247, COMPACTED TO 95% MODIFIED DENSITY AT A MOISTURE CONTENT BETWEEN -2 AND +3 OF OPTIMUM PERCENT MOISTURE ACCORDING TO ASTM D-1557 (MODIFIED PROCTOR) AND TESTED BY ASTM D-2922.

ASPHALT PAVEMENT SHALL BE THE TYPE SPECIFIED ON THE PLANS AND ACCORDING TO TXDOT ITEM 340 "HOT MIX ASPHALT CONCRETE PAVEMENT".

PRIME COAT USING MC-30 AT A RATE OF 0.2 GALLONS PER SQUARE YARD SHALL BE PLACED OVER PREPARED BASE AT LEAST ONE DAY PRIOR TO LAYING ASPHALTIC CONCRETE PAVEMENT. ANY NECESSARY TACK COAT SHALL BE MC-30 AT 0.05 GALLONS PER SQUARE YARD. IT IS REQUIRED THAT BOTH THE PRIME COAT AND THE TACK COAT BE APPLIED AT THE TEMPERATURE SPECIFIED UNDER TXDOT ITEM 300.3.

CONCRETE SHALL BE CLASS "A" ACCORDING TO TXDOT ITEM 421 UNLESS OTHERWISE ON PLANS.

REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM TO TXDOT ITEM 440. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS EXCEPT WHEN REFERRING TO CLEARANCE.

ALL SAWED JOINTS SHALL BE SAWED WITHIN 24 HOURS OF POURING,

ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT THE SPECIFIC APPROVAL OF THE ENGINEER.

ORDINARY COMPACTION CONTROL IS REQUIRED ON THIS PROJECT.

ALL ROLLING FOR COMPACTION OF ASPHALTIC CONCRETE PAVEMENT SHALL BE COMPLETED BEFORE THE MIXTURE TEMPERATURE DROPS BELOW 175 DEG. (F).

ALL FILL MATERIAL SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO THE NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS AND THE ENGINEER AND HIS EMPLOYEES, PARTNERS, OFFICES, DIRECTORS, OR CONSULTANTS, HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT. EXCEPTING FROM LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER, ENGINEER'S DIRECTORS, OFFICERS, EMPLOYEES, OR CONSULTANTS.

ALL CMP (CORRUGATED METAL PIPE) USED ON THIS PROJECT SHALL HAVE A MANNING'S "N" VALUE OF 0.024., UNLESS OTHERWISE SHOWN ON PLANS.

CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTING PER CURRENT CITY OF FREDERICKSBURG REQUIREMENTS. ALL TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. ENGINEER AND OWNER RESERVE THE RIGHT TO HAVE THE CONTRACTOR REMOVE AND REPLACE ANY MATERIAL THAT WAS NOT TESTED OR FAILED TESTING. ALL COST ASSOCIATED WITH THE REMOVAL, REPLACEMENT AND TESTING SHALL BE PAID BY THE CONTRACTOR.

ALL PVC SLEEVES SHALL BE INSTALLED 3 FEET BELOW FINISHED GRADE AND ENDS SHALL BE MARKED SO THAT LOCATIONS OF SLEEVES CAN BE EASILY IDENTIFIED.

PRE-CONSTRUCTION CONFERENCE IS REQUIRED, ENGINEER WILL ARRANGE SUCH CONFERENCE IN COORDINATION WITH CITY OF FREDERICKSBURG STREET INSPECTOR & FREDERICKSBURG UTILITIES INSPECTOR. NO CONSTRUCTION MAY BEGIN PRIOR TO THE PRE-CONSTRUCTION CONFERENCE.

CONTRACTOR SHALL COORDINATE WITH DRY UTILITY INSTALLERS AND SHARED TRENCHING SHALL BE UTILIZED. CUTTING THE STREETS AFTER COMPLETION BY DRY UTILITIES SHALL NOT BE ACCEPTABLE.

AS PER PLATTING ORDINANCE SECTION 118-38M.: WHEN ALL IMPROVEMENTS ARE FOUND TO BE CONSTRUCTED AND COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND WITH THE CITY'S STANDARDS, AND UPON RECEIPT OF ONE SET OF "RECORD DRAWINGS" PLANS, AND A DIGITAL COPY OF ALL PLANS (AUTOCAD 2000 MINIMUM) THE CITY ENGINEER SHALL ACCEPT SUCH IMPROVEMENTS FOR THE CITY OF FREDERICKSBURG, SUBJECT TO THE GUARANTY OF MATERIAL AND WORKMANSHIP PROVISIONS IN THIS SECTION.

EROSION / SEDIMENTATION CONTROL

AT A MINIMUM, THESE CONTROLS SHALL CONSIST OF ROCK BERMS AND/OR SILT FENCES CONSTRUCTED PARALLEL TO AND DOWN GRADIENT FROM THE TRENCHES. THE ROCK BERM OR SILT FENCES SHALL BE INSTALLED IN A MANNER SUCH THAT ANY RAINFALL RUNOFF SHALL BE FILTERED. HAY BALES SHALL NOT BE USED FOR TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE MAINTAINED DURING CONSTRUCTION BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE THE CONTROLS WHEN VEGETATION IS ESTABLISHED AND THE CONSTRUCTION AREA IS STABILIZED {31 TAC 313.5 (C)(12)}. ADDITIONAL PROTECTION MAY BE REQUIRED IF EXCESSIVE SOLIDS ARE BEING DISCHARGED FROM THE SITE.

ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER/ENGINEER.

PLACEMENT OF TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION PLANS. ACTUAL LOCATIONS MAY VARY SLIGHTLY FROM THE PLANS, BUT WILL BE VERIFIED BY THE ENGINEER/INSPECTOR IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY SIGNIFICANT RAINFALL TO INSURE DISTURBANCE OF THE STRUCTURES HAS NOT OCCURRED. SEDIMENT DEPOSITED AFTER A RAINFALL SHALL BE REMOVED FROM THE SITE OR PLACED IN AN ENGINEER APPROVED DESIGNATED DISPOSAL AREA.

CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT NO EROSION CONTROL MEASURES BLOCK THE DRAINAGE SYSTEM FROM WORKING AS DESIGNED.

CITY OF FREDERICKSBURG GENERAL NOTES

010 DEFINITIONS

AGREEMENT- THE WRITTEN INSTRUMENT, EXECUTED BY OWNER AND CONTRACTOR, THAT SETS FORTH THE CONTRACT PRICE AND CONTRACT TIMES, IDENTIFIES THE PARTIES AND THE ENGINEER, AND DESIGNATES THE SPECIFIC ITEMS THAT ARE CONTRACTS DOCUMENTS.

AUTHORITY THE CITY, COUNTY, AND OR UTILITY OPERATOR HAVING AUTHORITY TO REVIEW AND APPROVE, OR RELEASE, PLANS OR PERMITS RELATED TO WORK.

CONTRACT - THE ENTIRE AND INTEGRATED WRITTEN CONTRACT BETWEEN OWNER AND CONTRACTOR CONCERNING THE

CONTRACTOR— THE INDIVIDUAL, PARTNERSHIP, CORPORATION, JOINT VENTURE, OR OTHER LEGAL ENTITY HAVING A CONTRACT WITH THE OWNER TO PERFORM THE WORK. IN THE CASE OF WORK BEING DONE UNDER PERMIT ISSUED BY THE OWNER, THE PERMITTEE SHALL BE CONSTRUED TO BE THE CONTRACTOR. THE TERM "PRIME CONTRACTOR" SHALL MEAN CONTRACTOR.

CONTRACT DOCUMENTS- INCLUDES BUT IS NOT LIMITED TO CONTRACT ADDENDA (WHICH PERTAIN TO THE CONTRACT DOCUMENTS); SOLICITATION, ADVERTISEMENT OR INVITATION FOR BIDS OR REQUEST FOR PROPOSALS; INSTRUCTION TO BIDDERS; SUBMITTED BID/PROPOSAL INCLUDING DOCUMENTATION ACCOMPANYING THE BID/PROPOSAL AND ANY POST-BID DOCUMENTATION WHEN ATTACHED AS AN EXHIBIT TO THE CONTRACT: BONDS: GENERAL AND SUPPLEMENTAL CONDITIONS; PERMITS FROM OTHER AGENCIES; SPECIAL PROVISIONS; PLANS; CHANGE DIRECTIVES AND CHANGE

ORDERS; AND ALL MODIFICATIONS ISSUED AFTER THE EXECUTION OF THE CONTRACT. CONTRACTOR-THE INDIVIDUAL OR ENTITY WITH WHICH OWNER HAS CONTRACTED FOR PERFORMANCE OF THE WORK.

<u>CITY</u>— THE CITY POSSESSING JURISDICTIONAL AUTHORITY FOR DEVELOPMENT AND/ CONSTRUCTION PERMITTING. COUNTY- THE COUNTY POSSESSING JURISDICTIONAL AUTHORITY FOR DEVELOPMENT AND/ CONSTRUCTION PERMITTING. DRAWINGS- THOSE PORTIONS OF THE CONTRACT DOCUMENTS WHICH ARE GRAPHIC REPRESENTATIONS OF THE SCOPE, EXTENT AND CHARACTER OF THE WORK TO BE FURNISHED AND PERFORMED BY CONTRACTOR AND WHICH HAVE BEEN APPROVED BY OWNER. DRAWINGS MAY INCLUDE STANDARD PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND DIAGRAMS. SHOP DRAWINGS ARE NOT DRAWINGS AS SO DEFINED.

ENGINEER- THE ENGINEER OF RECORD OR HIS DULY AUTHORIZED REPRESENTATIVE.

OWNER- THE INDIVIDUAL OR ENTITY WITH WHICH CONTRACTOR HAS CONTRACTED REGARDING THE WORK, AND WHICH HAS AGREED TO PAY CONTRACTOR FOR THE PERFORMANCE OF THE WORK, PURSUANT TO THE TERMS OF THE CONTRACT

PLANS- THE DRAWINGS, PROFILES, CROSS SECTIONS, WORKING DRAWINGS, AND SUPPLEMENTAL DRAWINGS, OR REPRODUCTIONS THEREOF, APPROVED BY THE ENGINEER, WHICH SHOW THE LOCATION; CHARACTER, DIMENSIONS OR DETAILS OF THE WORK.

PROJECT-THE TOTAL UNDERTAKING TO BE ACCOMPLISHED FOR OWNER BY ENGINEERS, CONTRACTORS, AND OTHERS, INCLUDING PLANNING, STUDY, DESIGN, CONSTRUCTION, TESTING, COMMISSIONING, AND START-UP, AND OF WHICH THE WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS IS A PART.

SHOP DRAWINGS—ALL DRAWINGS, DIAGRAMS, ILLUSTRATIONS, SCHEDULES AND OTHER DATA OR INFORMATION WHICH ARE SPECIFICALLY PREPARED OR ASSEMBLED BY OR FOR CONTRACTOR AND SUBMITTED BY CONTRACTOR AS REQUIRED BY THE CONTRACT DOCUMENTS.

SPECIFICATIONS— THE PART OF THE CONTRACT THAT CONSISTS OF WRITTEN REQUIREMENTS FOR MATERIALS. EQUIPMENT, SYSTEMS, STANDARDS, AND WORKMANSHIP AS APPLIED TO THE WORK, AND CERTAIN ADMINISTRATIVE REQUIREMENTS AND PROCEDURAL MATTERS APPLICABLE TO THE WORK. PLANS- INSTRUCTIONS, DRAWINGS, DETAILS, AND SPECIFICATIONS.

SITE- LANDS OR AREAS INDICATED IN THE CONTRACT DOCUMENTS AS BEING FURNISHED BY OWNER UPON WHICH THE WORK IS TO BE PERFORMED, INCLUDING RIGHTS-OF-WAY AND EASEMENTS, AND SUCH OTHER LANDS OR AREAS FURNISHED BY OWNER WHICH ARE DESIGNATED FOR THE USE OF CONTRACTOR

SUBCONTRACTOR - AN INDIVIDUAL OR ENTITY HAVING A DIRECT CONTRACT WITH CONTRACTOR OR WITH ANY OTHER SUBCONTRACTOR FOR THE PERFORMANCE OF A PART OF THE WORK.

SUBMITTAL - A WRITTEN OR GRAPHIC DOCUMENT, PREPARED BY OR FOR CONTRACTOR, WHICH THE CONTRACT DOCUMENTS REQUIRE CONTRACTOR TO SUBMIT TO ENGINEER, OR THAT IS INDICATED AS A SUBMITTAL IN THE SCHEDULE OF SUBMITTALS ACCEPTED BY ENGINEER. SUBMITTALS MAY INCLUDE SHOP DRAWINGS AND SAMPLES; SCHEDULES; PRODUCT DATA; OWNER-DELEGATED DESIGNS; SUSTAINABLE DESIGN INFORMATION; INFORMATION ON SPECIAL PROCEDURES; TESTING PLANS; RESULTS OF TESTS AND EVALUATIONS, SOURCE QUALITY-CONTROL TESTING AND INSPECTIONS, AND FIELD OR SITE QUALITY-CONTROL TESTING AND INSPECTIONS; WARRANTIES AND CERTIFICATIONS; SUPPLIERS' INSTRUCTIONS AND REPORTS; RECORDS OF DELIVERY OF SPARE PARTS AND TOOLS; OPERATIONS AND MAINTENANCE DATA: PROJECT PHOTOGRAPHIC DOCUMENTATION: RECORD DOCUMENTS: AND OTHER SUCH DOCUMENTS REQUIRED BY THE CONTRACT DOCUMENTS. SUBMITTALS, WHETHER OR NOT APPROVED OR ACCEPTED BY ENGINEER, ARE NOT CONTRACT DOCUMENTS. CHANGE PROPOSALS, CHANGE ORDERS, CLAIMS, NOTICES, APPLICATIONS FOR PAYMENT, AND REQUESTS FOR INTERPRETATION OR CLARIFICATION ARE NOT SUBMITTALS <u>UNDERGROUND FACILITIES</u> — ALL ACTIVE OR NOT—IN—SERVICE UNDERGROUND LINES, PIPELINES, CONDUITS, DUCTS, ENCASEMENTS, CABLES, WIRES, MANHOLES, VAULTS, TANKS, TUNNELS, OR OTHER SUCH FACILITIES OR SYSTEMS AT THE SITE, INCLUDING BUT NOT LIMITED TO THOSE FACILITIES OR SYSTEMS THAT PRODUCE, TRANSMIT, DISTRIBUTE, OR CONVEY TELEPHONE OR \cdot OTHER COMMUNICATIONS, CABLE TELEVISION, FIBER OPTIC TRANSMISSIONS, POWER, ELECTRICITY, LIGHT, HEAT, GASES, OIL, CRUDE OIL PRODUCTS, LIQUID PETROLEUM PRODUCTS, WATER, STEAM, WASTE. WASTEWATER, STORM WATER, OTHER LIQUIDS IDS OR CHEMICALS, OR TRAFFIC OR OTHER CONTROL SYSTEMS. AN ABANDONED FACILITY OR SYSTEM IS NOT AN UNDERGROUND FACILITY.

<u>UTILITY OPERATOR</u>— THE WATER, WASTEWATER, OR DRY—UTILITY OPERATOR PROVIDING UTILITY SERVICE TO THE

<u>WORK</u>— THE ENTIRE CONSTRUCTION OR THE VARIOUS SEPARATELY IDENTIFIABLE PARTS THEREOF REQUIRED TO BE PROVIDED UNDER THE CONTRACT DOCUMENTS. WORK INCLUDES AND IS THE RESULT OF PERFORMING OR PROVIDING ALL LABOR, SERVICES, AND DOCUMENTATION NECESSARY TO PRODUCE SUCH CONSTRUCTION; FURNISHING, INSTALLING, AND INCORPORATING ALL MATERIALS AND EQUIPMENT INTO SUCH CONSTRUCTION: AND MAY INCLUDE RELATED SERVICES SUCH AS TESTING, START-UP, AND COMMISSIONING, ALL AS REQUIRED BY THE CONTRACT DOCUMENTS.

015 GENERAL

015.01 THE BIDDER PROPOSER OR CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY FRROR IN THE BIDDING OR CONTRACT DOCUMENTS. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE LIKE EFFECT AS IF SHOWN ON OR. MENTIONED IN BOTH. IN CASE OF ANY APPARENT DIFFERENCE BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR ANY OTHER APPARENT ERROR WHICH THE BIDDER OR CONTRACTOR MAY DISCOVER, SAID BIDDER/PROPOSER OR CONTRACTOR SHALL REFER THE MATTER AT ONCE TO THE OWNER AS TO WHICH, IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS, SHALL GOVERN. THE OWNER SHALL HAVE THE RIGHT TO CORRECT THE ERROR DISCOVERED THROUGH AN ADDENDUM TO THE SOLICITATION (IF THE BIDS/PROPOSALS HAVE NOT YET BEEN OPENED) 015.02 ANYTHING IN THE SPECIFICATIONS AND NOT ON THE DRAWINGS, OR ON THE DRAWINGS AND NOT IN THE SPECIFICATIONS, SHALL BE AS THOUGH SHOWN OR MENTIONED IN BOTH. WHILE IT IS BELIEVED THAT MUCH OF THE INFORMATION PERTAINING TO CONDITIONS WHICH MAY AFFECT THE COST OF THE WORK WILL BE SHOWN ON THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS, THE OWNER DOES NOT WARRANT THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION. THE CONTRACTOR SHALL ASCERTAIN THE EXISTENCE OF ANY CONDITIONS AFFECTING THE COST OF THE WORK, WHICH WOULD HAVE BEEN DISCLOSED BY REASONABLE EXAMINATION OF THE SITE. EXISTING IMPROVEMENTS VISIBLE AT THE JOB SITE, FOR WHICH NO SPECIFIC DISPOSITION IS MADE ON THE DRAWINGS, BUT WHICH COULD REASONABLY BE ASSUMED TO INTERFERE WITH THE SATISFACTORY COMPLETION OF THE IMPROVEMENTS CONTEMPLATED BY THE PLANS, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL, UPON DISCOVERING ANY ERROR OR OMISSION IN THE PLANS AND SPECIFICATIONS, IMMEDIATELY CALL IT TO THE ATTENTION OF THE ENGINEER.

020.03 IF THERE IS A. CONFLICT BETWEEN CONTRACT DOCUMENTS, THE DOCUMENT HIGHEST IN PRECEDENCE SHALL CONTROL. THE PRECEDENCE SHALL BE:

- (1) THE EXECUTED CONTRACT BETWEEN THE CITY AND OWNER ALONG WITH ANY PROPERLY EXECUTED CHANGE
- (2) PERMITS AND LICENSES FROM OTHER AGENCIES AS MAY BE REQUIRED BY LAW
- (3) SPECIAL PROJECT PROVISIONS
- (4) DRAWINGS
- (5) DETAILS (6) SPECIFICATIONS

020.04 CONTRACTOR AND SUBCONTRACTOR SHALL LOCATE ACTUAL LOCATION OF ALL EXISTING FACILITIES AND NOTIFY ENGINEER IF LOCATION OF EXISTING FACILITIES DIFFERS FROM LOCATION SHOWN IN PLANS. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL FACILITY LOCATES AND COORDINATING CONSTRUCTION ACTIVITIES WITH EXISTING FACILITY OWNERS AND / OR OPERATORS.

020 PRIVATE, DEVELOPMENT, OR CITY PROJECTS

020.01 PROJECTS MUST BE APPROVED BY THE AUTHORITY.

020.02 THESE STANDARD SPECIFICATIONS FOR CONSTRUCTION GENERAL PROVISIONS ARE PART OF THE CONTRACT BY WHICH THE CONTRACTOR HAS COMMITTED TO COMPLETE A SPECIFIC SCOPE OF WORK, IN COMPLIANCE WITH THE DRAWINGS, DETAILS, SPECIFICATIONS, SCHEDULE, AND ALL APPLICABLE LAWS, RULES AND REGULATIONS. COMPENSATION FOR SAID WORK SHALL BE MADE AS DESCRIBED IN THE AGREED UPON PROPOSAL.

020.03 ALL WORK MUST COMPLY WITH APPLICABLE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE MANUAL OF STANDARD DETAILS. ANY REQUEST FOR CHANGE TO THE DESIGN FOR THIS PORTION OF PRIVATE PROJECTS MUST BE APPROVED BY THE DESIGN ENGINEER OF RECORD, AND APPROVED PRIOR TO IMPLEMENTATION. SUBMITTALS FOR THIS PORTION OF THE WORK SHALL BE FORWARDED TO, AND APPROVED BY, THE DESIGN ENGINEER OF RECORD, AND FORWARDED TO THE AUTHORITY.

025 SUBMITTALS

025.01 FOR DEVELOPMENT PROJECTS; ALL INFORMATION ASSOCIATED WITH THE COMPLETION OF THE WORK SHALL BE SUBMITTED TO NECESSARY ENTITIES FOR REVIEW.

030 COMPLETION OF THE WORK

030.01 THE CONTRACTOR SHALL MAINTAIN A WORK FORCE ADEQUATE TO ACCOMPLISH THE WORK WITHIN THE CONTRACT TIME. THE CONTRACTOR AGREES TO EMPLOY ONLY ORDERLY, COMPETENT, AND KNOWLEDGEABLE WORKERS, SKILLFUL IN PERFORMANCE OF THE TYPE OF WORK REQUIRED UNDER THIS CONTRACT.

035 CHANGE MANAGEMENT - CITY & DEVELOPMENT PROJECTS

035.01 CHANGES TO ANY ASPECT OF THE PROJECT (MATERIALS, DESIGN, CONSTRUCTION METHODS, ETC.) SHALL BE REVIEWED AND EXECUTED BY THE OWNER/AUTHORITY AND/OR DESIGN ENGINEER OF RECORD.

035,02 THE CONTRACTOR MAY REQUEST, IN WRITING, A CHANGE. IN MATERIALS SPECIFIED IN CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT THE NECESSARY INFORMATION IN SUCH A TIMELY MANNER AS TO AVOID ANY ADVERSE IMPACTS TO THE CONTRACT SCHEDULE. THE CONTRACTOR MAY REQUEST, IN WRITING, A DEVIATION FROM THE SPECIFIED MATERIALS USING THE SAME PROCEDURE OUTLINED ABOVE.

035.03 THE CONTRACTOR MAY REQUEST A DEVIATION FROM THE DESIGN OF THE WORK. THE CONTRACTOR SHALL SUBMIT, IN WRITING, THE NECESSARY INFORMATION IN SUCH A TIMELY MANNER AS TO AVOID ANY ADVERSE IMPACTS TO THE CONTRACT SCHEDULE. THE MODIFICATION TO THE DESIGN MAY BE UTILIZED UPON RECEIPT OF WRITTEN APPROVAL BY THE OWNER OR ENGINEER.

035.04 IF A SPECIFIC MEANS, METHOD, TECHNIQUE, SEQUENCE, OR PROCEDURE OF CONSTRUCTION IS REQUIRED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR MAY REQUEST A SUBSTITUTE. THE CONTRACTOR SHALL SUBMIT, IN WRITING, THE NECESSARY INFORMATION IN SUCH A TIMELY MANNER AS TO AVOID ANY ADVERSE IMPACTS TO THE CONTRACT SCHEDULE. THE SUBSTITUTE MEANS OR METHODS MAY BE UTILIZED UPON RECEIPT OF WRITTEN APPROVAL BY THE OWNER OR ENGINEER.

040 ENVIRONMENTAL AND SAFETY PLANS

040.01 THE CONTRACTOR SHALL SUBMIT FOR APPROVAL ALL REQUIRED ENVIRONMENTAL AND SAFETY PLANS FOR THE COMPLETION OF THE WORK. THE WORK WILL NOT BE PERMITTED TO BEGIN UNTIL ALL RELATED PLANS HAVE BEEN REVIEWED AND RELEASED.

045 TRENCH SAFETY PLAN (TSP)

045.01 WHEN REQUIRED BY THE WORK, THE CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN FOR REVIEW. THE PLAN SHALL INCLUDE THE RECOMMENDED SAFETY PROTECTION MEASURES WITH THE APPROPRIATE LOADING

045,02 THE CONTRACTOR SHALL ENSURE THAT ALL PROTECTIVE MEASURES LOCATED ON SITE AND ALL PROCEDURES ON THE PROJECT ARE IN COMPLIANCE WITH ALL ASPECTS OF THE PLAN.

045.03 THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL RELATED DOCUMENTATION TO THE OWNER AND/OR AUTHORITY UPON REQUEST. 045.04 THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, ENGINEER, UTILITY OPERATOR, AND THE CITY, ITS FEES, COURT COSTS, AND THE COST OF INVESTIGATION), JUDGMENTS OR CLAIMS BY ANYONE FOR INJURY OR DEATH OF PERSONS RESULTING FROM THE COLLAPSE OR FAILURE OF TRENCHES CONSTRUCTED UNDER THIS CONTRACT.

050 CONFINED SPACE PLAN (CSP)

050.01 WHEN REQUIRED BY THE WORK; THE CONTRACTOR SHALL SUBMIT A CONFINED SPACE PLAN FOR REVIEW. 050.02 THE CONTRACTOR SHALL ENSURE THAT ALL PROCEDURES EMPLOYED ON THE PROJECT ARE IN COMPLIANCE WITH PLAN.

050.03 THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS. ALL RELATED DOCUMENTATION WILL BE MADE AVAILABLE TO THE INSPECTOR ON A DAILY BASIS. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL RELATED DOCUMENTATION TO THE OWNER UPON REQUEST.

055 EROSION CONTROL PLAN (SW3P)

055.01 WHEN REQUIRED BY THE. WORK, THE CONTRACTOR S. HALL SUBMIT. AN EROSION CONTROL PLAN FOR REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SW3P PERMITS, INSTALLING REQUIRED BMPS, AND MAINTAINING PROJECT SITE TO COMPLY WITH SW3P PERMITS.

060 TEMPORARY TRAFFIC CONTROL PLAN (TTCP)

060.01 WHEN REQUIRED BY THE WORK, THE CONTRACTOR SHALL SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN FOR REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY TRAFFIC CONTROL PLANS AND SHALL SUBMIT AND COORDINATE TEMPORARY TRAFFIC CONTROL PLANS WITH CITY, COUNTY, AND/ OR TXDOT. THE PLAN SHALL BE BASED UPON APPLICABLE CITY, STATE, AND MUTCD REQUIREMENTS AND ESTABLISHED STANDARDS.

a) IN THE EVENT A TTCP HAS BEEN INCLUDED WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL COMPLY

WITH THE TTCP. THE CONTRACTOR IS RESPONSIBLE TO MONITOR THE PLAN AS THE WORK PROGRESSES AND SUBMIT

MODIFICATIONS FOR APPROVAL AS NEEDED. b) THE CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE THE INSPECT COPY OF THE SIGNED PLAN PRIOR TO BEGINNING WORK. THE CONTRACTOR IS RESPONSIBLE TO MONITOR THE PLAN AS THE WORK PROGRESSES AND SUBMIT MODIFICATIONS FOR APPROVAL AS NEEDED. THE CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE THE INSPECTOR A

COPY OF THE SIGNED PLAN PRIOR TO BEGINNING WORK.

090.01 A PRECONSTRUCTION CONFERENCE SHALL BE HELD AS SOON AFTER THE AWARD AND EXECUTION OF THE CONTRACT AS POSSIBLE AND BEFORE ANY WORK AT THE SITE IS STARTED. THE CITY DEVELOPMENT ENGINEER SHALL PREPARE AND DISTRIBUTE THE MEETING AGENDA, PRESIDE OVER THE CONFERENCE, AND MAY DISTRIBUTE MEETING

090.02 PROGRESS MEETINGS SHALL BE HELD AS DEEMED NECESSARY BY THE ENGINEER/ARCHITECT OR OWNER OR AS REQUESTED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. THE MEETINGS SHALL BE HELD AT A LOCATION SELECTED BY OR APPROVED BY THE OWNER'S REPRESENTATIVE.

090.03 WHEN NECESSARY, A MANDATORY PROJECT CLOSE-OUT MEETING FOLLOWING FINAL COMPLETION OF THE WORK. THE CONTRACTOR WILL ENSURE ALL NECESSARY PERSONNEL ATTEND THE CLOSE-OUT MEETING TO SUBMIT AND REVIEW ALL CONTRACT CLOSE—OUT DOCUMENTATION. FOLLOW UP MANDATORY MEETINGS WILL BE SCHEDULED AS NEEDED TO COMPLETE THE CLOSE-OUT PROCESS. APPROVAL OF THE FINAL INVOICE IS DEPENDANT UPON RECEIPT OF CLOSE-OUT DOCUMENTATION.

MUNICIPAL UTILITY DISTRICT (MUD) NOTES:

- 1. THE DISTRICT ENGINEER, JONES-HEROY & ASSOCIATES, INC. (KEN HEROY, PH: 512-989-2200)
- SHALL BE CONTACTED 48 HOURS PRIOR TO:
- A. PRE-CONSTRUCTION MEETINGS;

PRIOR TO CONSTRUCTION AT:

- B. BEGINNING EACH PHASE OF CONSTRUCTION; C. TESTING OF WATER AND /OR WASTEWATER LINES; AND,
- D. FINAL WALK-THROUGH OF FACILITIES.
- A. PRE-CONSTRUCTION MEETINGS; B. BEGINNING EACH PHASE OF CONSTRUCTION;

2. THE DISTRICT OPERATOR SHALL BE CONTACTED 48 HOURS PRIOR TO:

C. TESTING OF WATER AND/OR WASTEWATER LINES; AND, D. FINAL WALK-THROUGH OF FACILITIES.

<u>UTILITIES</u>

LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION, INCLUDING THOSE NOT SHOWN ON THE

ANY EXISTING UTILITIES, ON OR OFF THE SITE, THAT ARE DAMAGED OR UNDERCUT BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE RESPECTIVE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY COMPANIES AND GOVERNMENTAL AGENCIES AT LEAST 48 HOURS

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION

CITY OF FREDERICKSBURG (WATER & SEWER) (830) 608-8971 CENTRAL TEXAS ELECTRIC COOP (ELECTRIC) (830) 992-2261 CENTRIC INFRASTRUCTURE GROUP (GAS & FIBER) (281) 252-2261 (855) 707-7328 SPECTRUM CABLE AT&T (830) 303-1333 TEXAS ONE CALL SYSTEM (800) 245-4545

ST 78 290 S. CANEW BRATBPELS I



(7)

DATE: AUGUST 2024

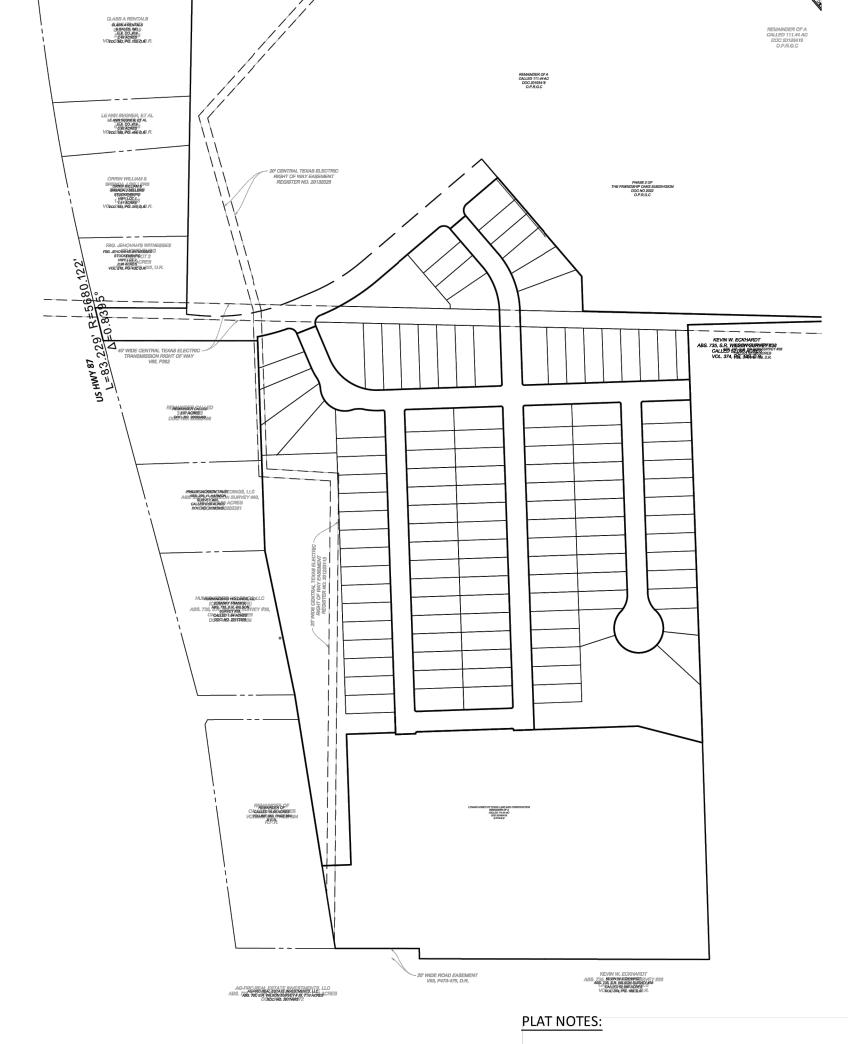
DRAWN BY:

DESIGNED BY: RS REVIEWED BY: **ZJ**

HMT PROJECT NO .:

SHEET

337.065



BENCHMARK: BRASS DISK "USGS BM 1695" IN SIDEWALK @ SOUTHWEST CORNER HWY 290 & HWY 87. ELEV = 1694.47

BEARINGS AND COORDINATES SHOWN HEREON ARE BASED UPON THE TEXAS COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983, GRID. DISTANCES SHOWN HEREON ARE BASED UPON SURFACE MEASUREMENTS. TO CONVERT SURFACE DISTANCES TO GRID, APPLY A COMBINED SCALE FACTOR OF 1.00015.

MONUMENTS WERE FOUND OR SET AT EACH CORNER OF THE SURVEY BOUNDARY OF THE SUBDIVISION. MONUMENTS AND LOT MARKERS WILL BE SET WITH PLASTIC CAP STAMPED "HMT" IMMEDIATELY AFTER COMPLETION OF UTILITY INSTALLATION AND STREET CONSTRUCTION UNLESS NOTED OTHERWISE.

4. AT DATE OF PLAT APPROVAL, NO PORTION OF THE 100-YEAR FLOOD PLAIN EXISTS ON THIS SITE AS VERIFIED BY FEMA MAP PANEL: 48171C288C & 48171C0451C, EFFECTIVE OCTOBER 19, 2001; THIS INFORMATION IS SUBJECT TO CHANGE AS A RESULT OF FUTURE FEMA MAP REVISIONS AND/OR AMENDMENTS.

SETBACKS SHALL CONFORM TO THE CITY'S ADOPTED ZONING CODE AT THE TIME OF PERMITTING. 6. THE RECORDING OF THIS SUBDIVISION PLAT SHALL SUPERSEDE THE

PREVIOUS SUBDIVISION PLAT FRIENDSHIP OAKS, RECORDED IN VOLUME 2, PAGE 148 OF THE GILLESPIE COUNTY MAP RECORDS. THE FOLLOWING ITEMS AS SHOWN ON SAID PLAT SHALL BE REMOVED: PART OF THE OUTLOT STREET PART OF TRACT 2 AND THE 75' WELL AND SEPTIC SYSTEM SETBACK LINES WITHIN THE AREA BEING PLATTED.

7. THE CTEC ELECTRIC EASEMENT RECORDED IN VOL. 361, PG. 67 OF THE GILLESPIE COUNTY MAP RECORDS IS RELEASED PER DOC No. 20216475 OF THE GILLESPIE COUNTY MAP RECORDS.

8. THE CITY OF FREDERICKSBURG BURIED UTILITY EASEMENT RECORDED IN VOL. 361, PG. 69 OF THE GILLESPIE COUNTY MAP RECORDS SHALL

DATE OF PREPARATION: 12/22/2022

TBPELS FIRM F-10961 TBPELS FIRM 10153600

EASEMENT NOTES:

SCALE: 1" = 200'

10' UTILITY EASEMENT ALONG ALL RIGHT-OF-WAY LINE AS SHOWN 10' UTILITY EASEMENT ALONG PROPERTY LINES AS NOTED

● = FND 1/2" IRON PIN O = SET 1/2" IRON PIN W/

D.E. = DRAINAGE EASEMENT

E.G.T.CA. = ELECTRIC, GAS, TELEPHONE & CABLE TELEVISION

O.P.R. = OFFICIAL PUBLIC RECORDS,

SF = SQUARE FEET ESMT. = EASEMENT

ROW = RIGHT-OF-WAYD.P.R. = DEED AND PLAT RECORDS,

PLASTIC CAP STAMPED "HMT"

GILLESPIE COUNTY, TEXAS

GILLESPIE COUNTY, TEXAS

5' DRAINAGE EASEMENT ALONG ALL PROPERTY LINES OF EACH LOT AS SHOWN 15' FRONT BUILDING SETBACK LINE (20' FOR GARAGE)

15' SIDE STREET BUILDING SETBACK LINE AS SHOWN 10' REAR BUILDING SETBACK LINE AS SHOWN

5' SIDE BUILDING SETBACK LINE 30'x30' SIGHT EASEMENT AT ALL RIGHT-OF-WAY INTERSECTIONS AS

SITE VISIBILITY RESTRICTION:

NO STRUCTURE, OBJECT OR PLANT OF ANY TYPE SHALL OBSTRUCT VISION FROM A HEIGHT OF TWENTY-FOUR (24) INCHES TO A HEIGHT OF TEN (10) FEET ABOVE THE TOP OF THE CURB, INCLUDING, BUT NOT LIMITED TO, BUILDINGS, FENCES, WALKS, SIGNS, TREES, SHRUBS, CARS, TRUCKS ETC., IN THE SIGHT VISIBILITY EASEMENT AS SHOWN ON THE PLAT. THESE SIGHT VISIBILITY EASEMENTS WILL REMAIN IN EFFECT UNTIL VACATED BY ORDINANCE ADOPTED BY THE CITY COUNCIL AND THE PROPERTY REPLATTED.

NOTES:

1. THE DEVELOPER DEDICATES THE SANITARY SEWER AND WATER MAINS UPON COMPLETION BY THE DEVELOPER AND ACCEPTANCE BY THE CITY OF FREDERICKSBURG. THE CITY FREDERICKSBURG WILL OWN AND MAINTAIN WITHIN TWO (2) YEARS OF THE ACCEPTANCE OF SAID SEWER AND WATER MAINS LOCATED WITHIN THE SUBDIVISION PLAT.

2. DAMAGE BY ANY UTILITY COMPANY TO ANY STRUCTURES, FENCES, WALLS OR LANDSCAPING OF ANY KIND PLACED WITHIN THE LIMITS OF THE EASEMENTS SHOWN ON THIS PLAT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. NO LANDSCAPING OR OTHER MODIFICATIONS ALTERING THE CROSS-SECTION OF DRAINAGE EASEMENTS ARE ALLOWED WITHOUT APPROVAL BY THE CITY OF FREDERICKSBURG, THE CITY OF FREDERICKSBURG SHALL HAVE THE RIGHT TO REQUIRE THE PROPERTY OWNERS TO REMOVE ANY OBSTRUCTIONS PLACED WITHIN THE PRIVATE DRAINAGE EASEMENTS AND THE RIGHT TO REQUIRE THE PROPERTY OWNERS TO MAKE MODIFICATIONS OR IMPROVEMENTS WITHIN THE EASEMENTS FOR PUBLIC WELFARE.

3. DRAINAGE EASEMENTS ARE TO BE MAINTAINED BY PROPERTY OWNER AND ACCESS TO BE GIVEN TO DEVELOPER OR AUTHORIZED PERSON FOR ANY ADDITIONAL CONSTRUCTION, MAINTENANCE, OR REPAIR OF ANY STRUCTURE WITHIN ANY DRAINAGE EASEMENT.

4. NO ONE SHALL INTERFERE WITH ANY NATURAL DRAINAGE PATTERN OR CONSTRUCTED DRAINAGE SYSTEM ESTABLISHED BY THE DEVELOPMENT BY ALTERING ANY SLOPES, CONTOUR OF ANY CHANNEL, SWALE OR EMBANKMENT OR TAKING OF ANY OTHER ACTION WHICH WILL OR LIKELY TO RETARD, CHANGE OR INTERFERE WITH DRAINAGE OR CREATE EROSION WITHIN THIS AREA.

5. ALL TOPOGRAPHIC INFORMATION, BENCHMARKS, AND DRAINAGE DESIGNS WERE COMPUTED AND STAKED ON THE GROUND BY AUSTIN SPATIAL

CERTIFICATE OF COMPLETION, ACCEPTANCE, AND AUTHORIZATION TO FILE

CHAIRMAN, PLANNING AND ZONING COMMISSION CITY OF FREDERICKSBURG, TEXAS

THE UNDERSIGNED, THE CITY SECRETARY OF THE CITY OF FREDERICKSBURG, TEXAS, HEREBY CERTIFIES THAT THE FOREGOING FINAL PLAT OF THE SUBDIVISION OR ADDITION TO THE CITY OF FREDERICKSBURG WAS SUBMITTED TO THE PLANNING AND ZONING COMMISSION ON THE _____ DAY OF AND THE COMMISSION, BY FORMAL ACTION, THEN AND THERE ACCEPTED THE DEDICATIONS, CONVEYANCES OF LAND, IMPROVEMENTS AND ANY OTHER PROPERTY NECESSARY TO SERVE THE PLAT AND TO IMPLEMENT THE REQUIREMENTS OF THE PLATTING ORDINANCES, RULES, AND REGULATIONS AS SHOWN AND SET FORTH IN AND UPON SAID PLAT, THAT THE PUBLIC WORKS AND INFRASTRUCTURE IMPROVEMENTS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION PLANS, HAVE BEEN TESTED AND HAVE BEEN ACCEPTED BY THE CITY, THAT THE FINAL PLAT IS NOW ACCEPTABLE FOR FILING WITH GILLESPIE COUNTY AND SAID COMMISSION FURTHER AUTHORIZED THE CHAIRMAN OF THE PLANNING AND ZONING COMMISSION TO NOTE THE ACCEPTANCE ON BEHALF OF THE CITY THEREOF BY SIGNING HIS/HER NAME AS HEREINABOVE SUBSCRIBED.

WITNESS BY HAND ON THIS ______DAY OF _______, 20_____.

CERTIFICATE OF FINAL PLAT APPROVAL (FOR FINAL PLATS WITH REQUIRED PUBLIC IMPROVEMENTS INSTALLED AFTER APPROVAL)

CHAIRMAN, PLANNING AND ZONING COMMISSION CITY OF FREDERICKSBURG, TEXAS

THE UNDERSIGNED, THE CITY SECRETARY OF THE CITY OF FREDERICKSBURG, TEXAS, HEREBY CERTIFIES THAT THE FOREGOING FINAL PLAT OF THE PHASE 3 OF THE FRIENDSHIP OAKS SUBDIVISION OR ADDITION TO THE CITY OF FREDERICKSBURG WAS SUBMITTED TO THE PLANNING AND ZONING COMMISSION ON THE AND THE COMMISSION, BY FORMAL ACTION, THEN AND THERE ACCEPTED THE FINAL PLAT AND HEREBY AUTHORIZES THE DEVELOPER TO PROCEED WITH THE CONSTRUCTION OF PUBLIC WORKS IMPROVEMENTS AND INFRASTRUCTURE AS INDICATED ON THE ACCOMPANYING CONSTRUCTION PLANS, AND SAID COMMISSION FURTHER AUTHORIZES THE CHAIRMAN OF THE PLANNING AND ZONING COMMISSION TO NOTE THE

WITNESS BY HAND THIS _____DAY OF _

ACCEPTANCE THEREOF BY SIGNING HIS/HER NAME AS HEREINABOVE SUBSCRIBED.

CITY SECRETARY CITY OF FREDERICKSBURG, TEXAS

OWNER'S ACKNOWLEDGEMENT AND DEDICATION

STATE OF TEXAS § COUNTY OF GILLESPIE §

I, (WE), THE UNDERSIGNED, OWNER(S) OF THE LAND SHOWN ON THIS PLAT WITHIN THE AREA DESCRIED BY DOC #20193419 OFFICIAL PUBLIC RECORDS OF GILLESPIE COUNTY.

AND DESIGNATED HEREIN AS THE FRIENDSHIP OAKS, PHASE 2 SUBDIVISION TO THE CITY OF FREDERICKSBURG, TEXAS, AND WHOSE NAME IS SUBSCRIBED HERETO, HEREBY DEDICATE TO THE PUBLIC USE FOREVER BY FEE SIMPLE TITLE, FREE AND CLEAR OF ALL LIENS AND ENCUMBRANCES, ALL STREETS, THOROUGHFARES, ALLEYS, PARKS, AND TRAILS, AND TO THE PUBLIC USE FOREVER EASEMENTS FOR SIDEWALKS, STORM DRAINAGE FACILITIES, FLOODWAYS, WATER MAINS, WASTEWATER MAINS AND OTHER UTILITIES, AND ANY OTHER PROPERTY NECESSARY TO SERVE THE PLAT AND TO IMPLEMENT THE REQUIREMENTS OF THE PLATTING ORDINANCES, RULES, AND REGULATIONS THEREON SHOWN FOR THE PURPOSE OF CONSIDERATION THEREIN EXPRESSED.

STATE OF TEXAS § COUNTY OF GILLESPIE §

BEFORE ME, THE UNDERSIGNED AUTHORITY IN AND FOR , KNOWN TO ME TO BE THE ON THIS DAY PERSONALLY APPEARED__ PERSON AND OFFICER WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE IS

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS THE ____DAY OF _

AUTHORIZED TO EXECUTE THE FOREGOING INSTRUMENT FOR THE PURPOSES AND CONSIDERATION THERIN EXPRESSED, AND IN THE CAPACITY THEREIN STATED.

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

TYPE OR PRINT NOTARY'S NAME

MY COMMISSION EXPIRES:

LIENHOLDER'S RATIFICATION OF PLAT DEDICATION

STATE OF TEXAS § COUNTY OF GILLESPIE §

, ACTING BY AND THROUGH THE UNDERSIGNED, ITS DULY AUTHORIZED AGENT, IS THE LIENHOLDER OF THE PROPERTY DESCRIBED HEREON, DOES HEREBY RATIFY ALL DEDICATIONS AND PROVISIONS OF THIS PLAT AS SHOWN.

STATE OF TEXAS §

COUNTY OF GILLESPIE § BEFORE ME, THE UNDERSIGNED AUTHORITY IN AND FOR _ ON THIS DAY PERSONALLY APPEARED_ , KNOWN TO ME TO BE THE PERSON AND OFFICER WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND

ACKNOWLEDGED TO ME THAT HE/SHE IS AUTHORIZED TO EXECUTE THE FOREGOING INSTRUMENT FOR THE PURPOSES AND CONSIDERATION THERIN EXPRESSED, AND IN THE CAPACITY THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS THE ____DAY OF __

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

TYPE OR PRINT NOTARY'S NAME

MY COMMISSION EXPIRES:

PROJECT NUMBER P- 1 OF 3

ESTABLISHING PHASE 3 OF THE FRIENDSHIP OAKS SUBDIVISION

CITY SECRETARY

CITY OF FREDERICKSBURG, TEXAS

JOSE ESTEBAN BARGAS, SURVEY, A-53, GILLESPIE COUNTY, TEXAS. BEING PART OF A CALLED 111.44 ACRE TRACT, RECORDED IN DOCUMENT NO. 20193419 OF THE OFFICIAL

DATE: AUGUST 2024

DESIGNED BY: RS

REVIEWED BY: ZJ

HMT PROJECT NO .:

DRAWN BY:

337.065

CERTIFICATE OF SURVEYOR

STATE OF TEXAS § COUNTY OF GILLESPIE

I, THE UNDERSIGNED, A (LICENSED PROFESSIONAL ENGINEER/REGISTERED PROFESSIONAL SURVEYOR) IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION ON THE GROUND.

> LICENSED PROFESSIONAL ENGINEER OR REGISTERED PROFESSIONAL SURVEYOR

COUNTY OF GILLESPIE § BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

TYPE OR PRINT NOTARY'S NAME

MY COMMISSION EXPIRES: _____

EASEMENT NOTE:

ANY PUBLIC UTILITY, INCLUDING THE CITY, SHALL HAVE THE RIGHT TO MOVE AND KEEP MOVED ALL OR PART OF ANY BUILDING, FENCES, TREES, SHRUBS, OTHER GROWTHS OR IMPROVEMENTS THAT IN ANY WAY ENDANGER OR INTERFERE WITH THE CONSTRUCTION, MAINTENANCE, OR EFFICIENCY OF ITS RESPECTIVE SYSTEMS ON ANY OF THE EASEMENTS OR RIGHT-OF-WAY SHOWN ON THE PLAT (OR FILED BY SEPARATE INSTRUMENT THAT IS ASSOCIATED WITH SAID PROPERTY); AND ANY PUBLIC UTILITY, INCLUDING THE CITY, SHALL HAVE THE RIGHT AT ALL TIMES OF INGRESS AND EGRESS TO AND FROM AND UPON SAID EASEMENTS FOR THE PURPOSE OF CONSTRUCTION, RECONSTRUCTION, INSPECTION, PATROLLING, MAINTAINING AND ADDING TO OR REMOVING ALL OR PART OF ITS RESPECTIVE SYSTEMS WITHOUT THE NECESSITY AT ANY TIME OF PROCURING THE PERMISSION OF ANYONE. EASEMENTS SHALL BE MAINTAINED BY PROPERTY OWNERS. THE CITY CAN MOVE TREES OR ANY OTHER IMPROVEMENTS AND DOES NOT HAVE THE RESPONSIBILITY TO REPLACE THEM.

ENGINEERS CERTIFICATE

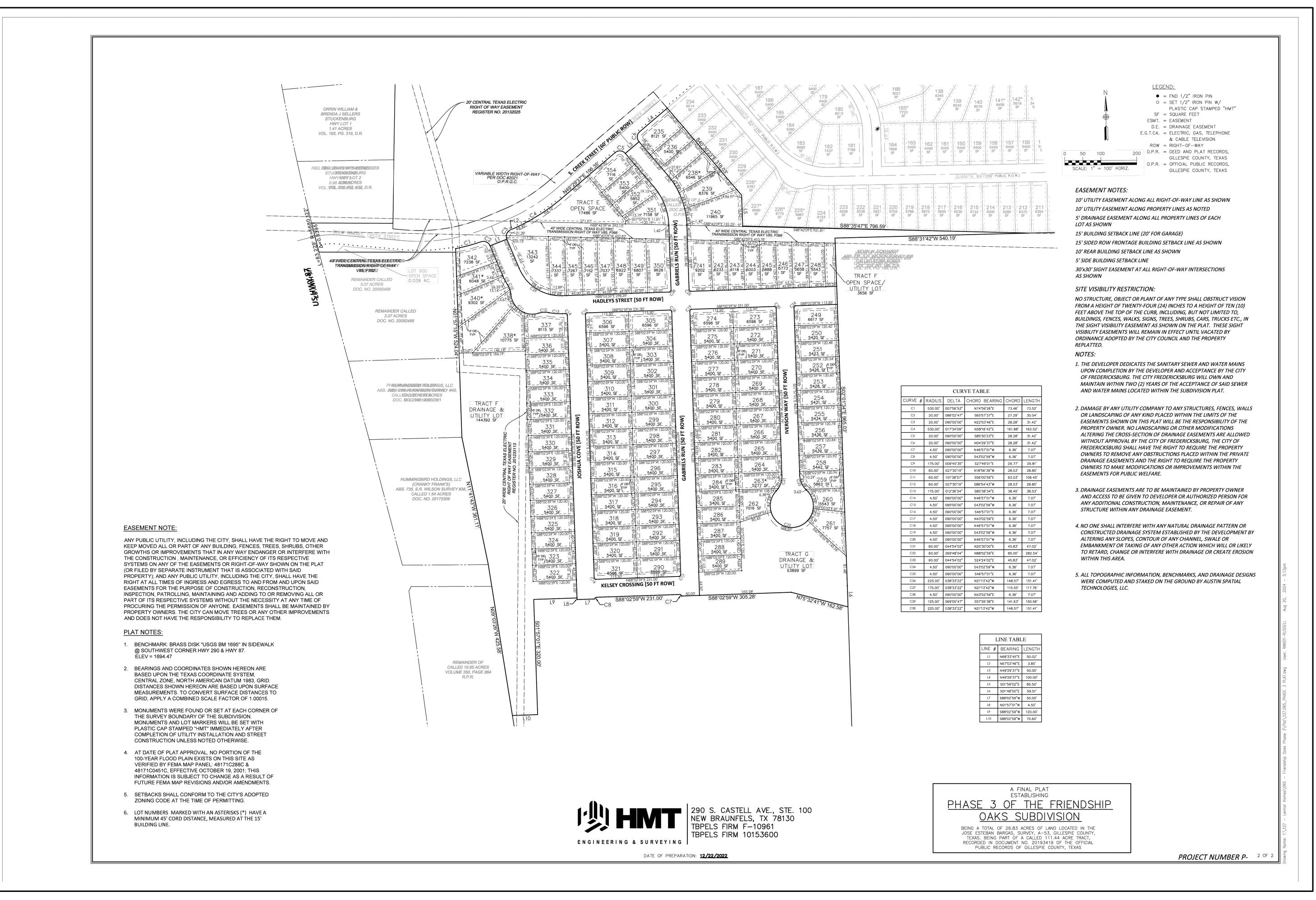
I, THE UNDERSIGNED, A (LICENSED PROFESSIONAL ENGINEER/REGISTERED PROFESSIONAL SURVEYOR) IN THE STATE OF TEXAS, HEREBY CERTIFY THAT PROPER ENGINEERING CONSIDERATION HAS BEEN GIVEN TO THIS PLAT: AND THAT ALL ASPECTS OF IT ARE IN ACCORDANCE TO THE CITY OF FREDERICKSBURG'S SUBDIVISION ORDINANCES. EXCEPT FOR ANY VARIANCES GRANTED BY THE CITY COUNCIL.

LICENSED PROFESSIONAL ENGINEER

ENGINEERING & SURVEYING

FOR REFERENCE ONLY

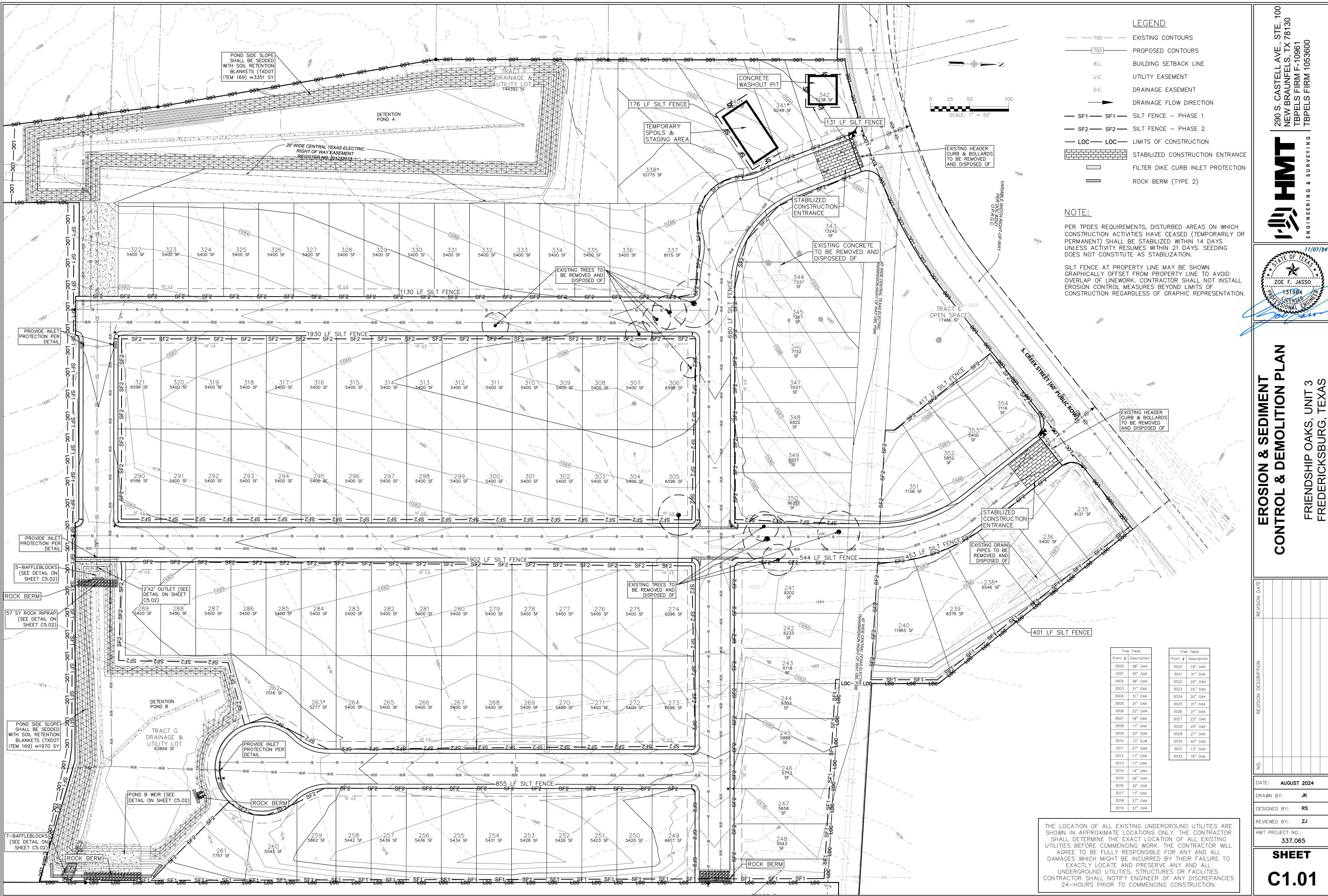
STATE OF TEXAS § EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATION THERIN STATED. GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS _____DAY OF



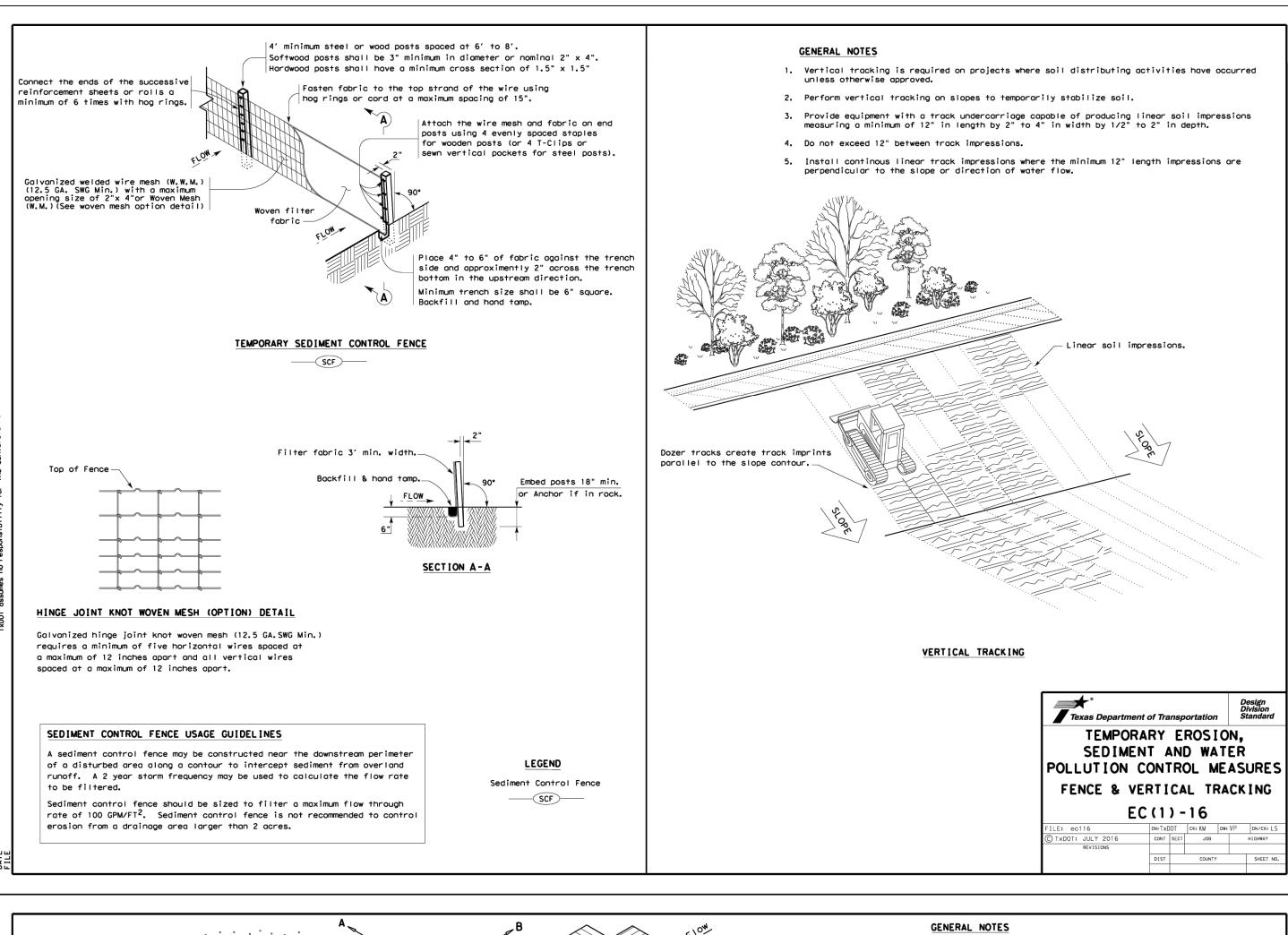
DATE: AUGUST 2024 DRAWN BY:

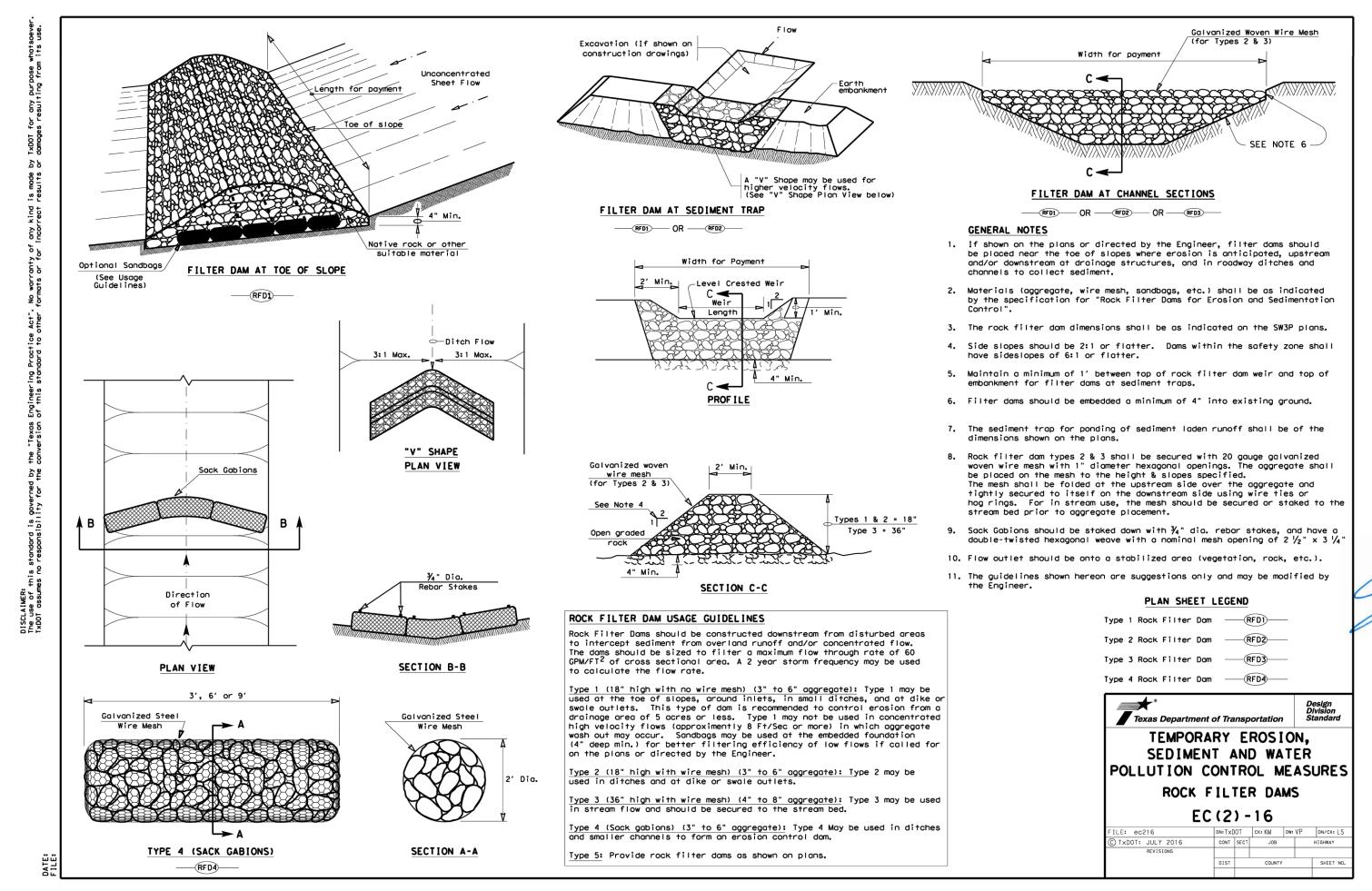
DESIGNED BY: RS REVIEWED BY: **ZJ**

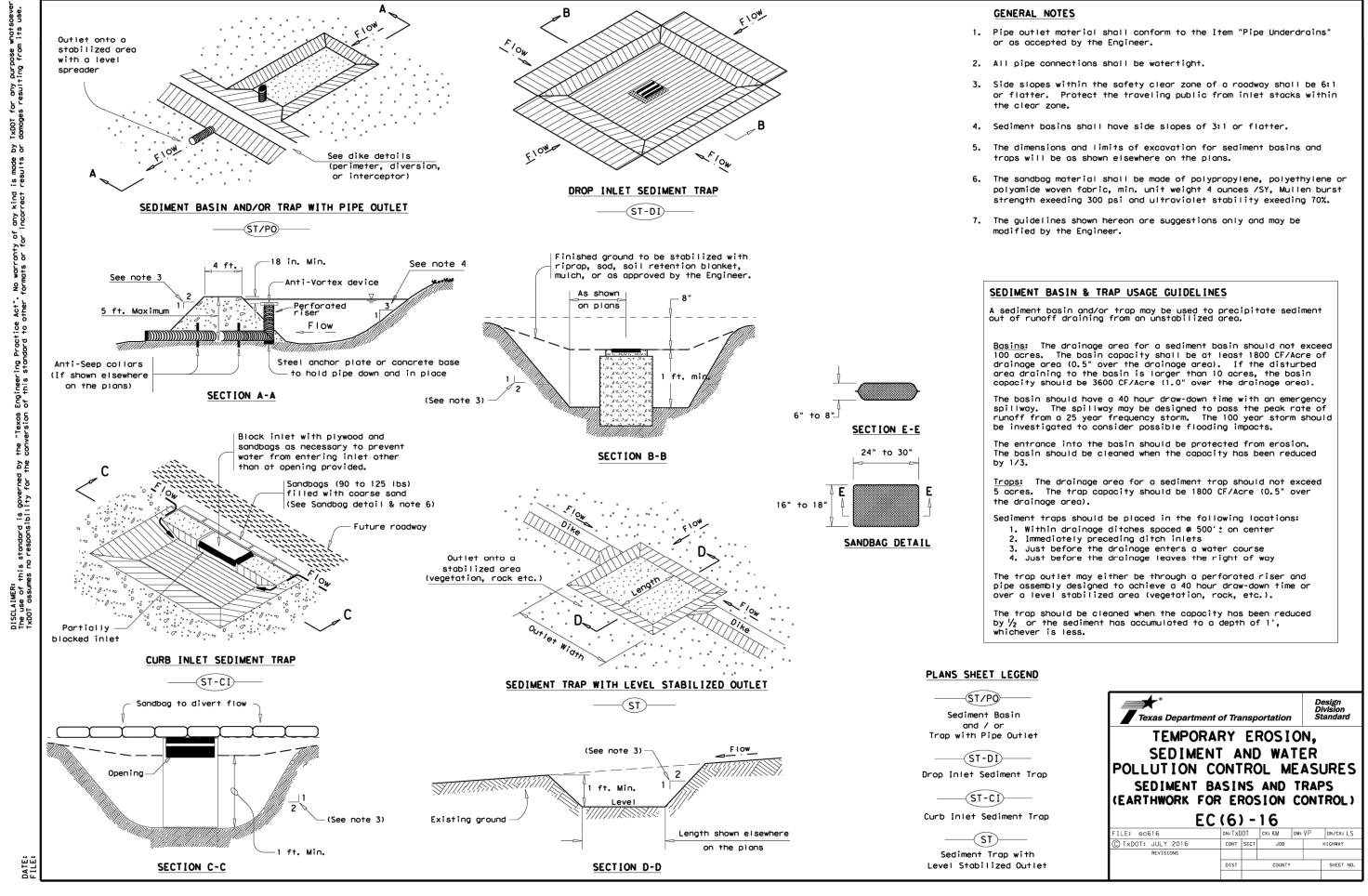
HMT PROJECT NO .: 337.065

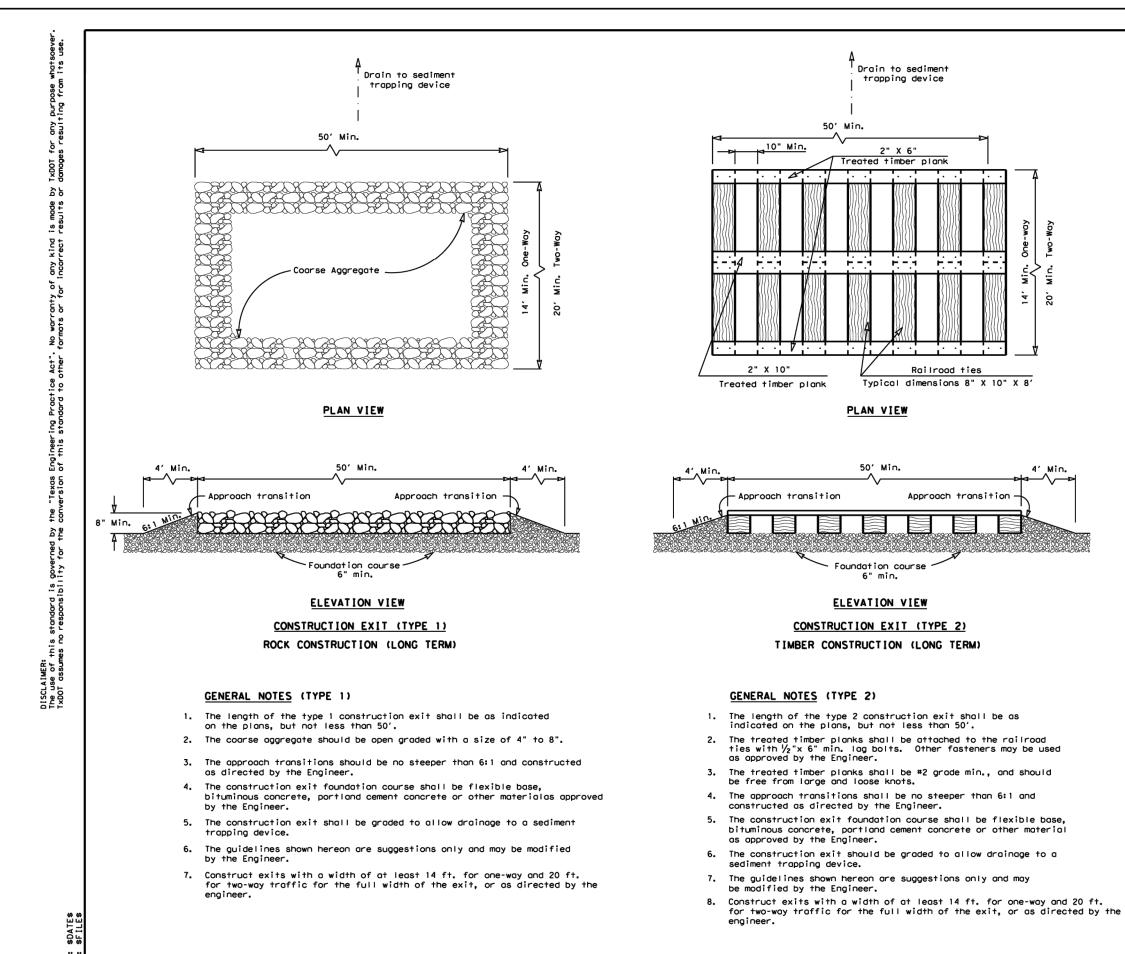


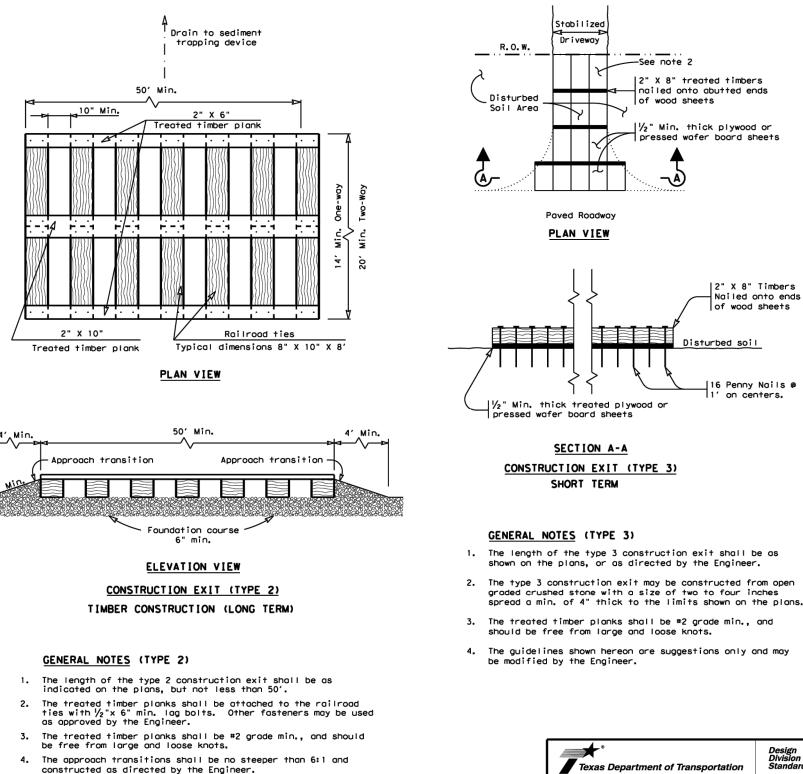
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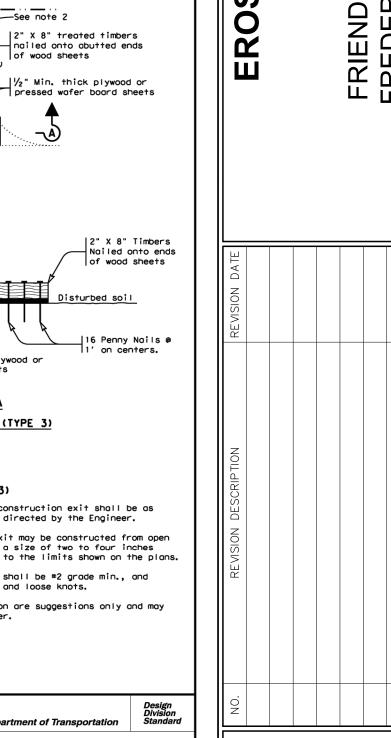












TEMPORARY EROSION,

SEDIMENT AND WATER

POLLUTION CONTROL MEASURES

CONSTRUCTION EXITS

EC(3)-16

SCS SSS SJS SHWYS

DRAWN BY: DESIGNED BY: RS REVIEWED BY: ZJ IT PROJECT NO .: 337.065

AUGUST 2024

BR. C.

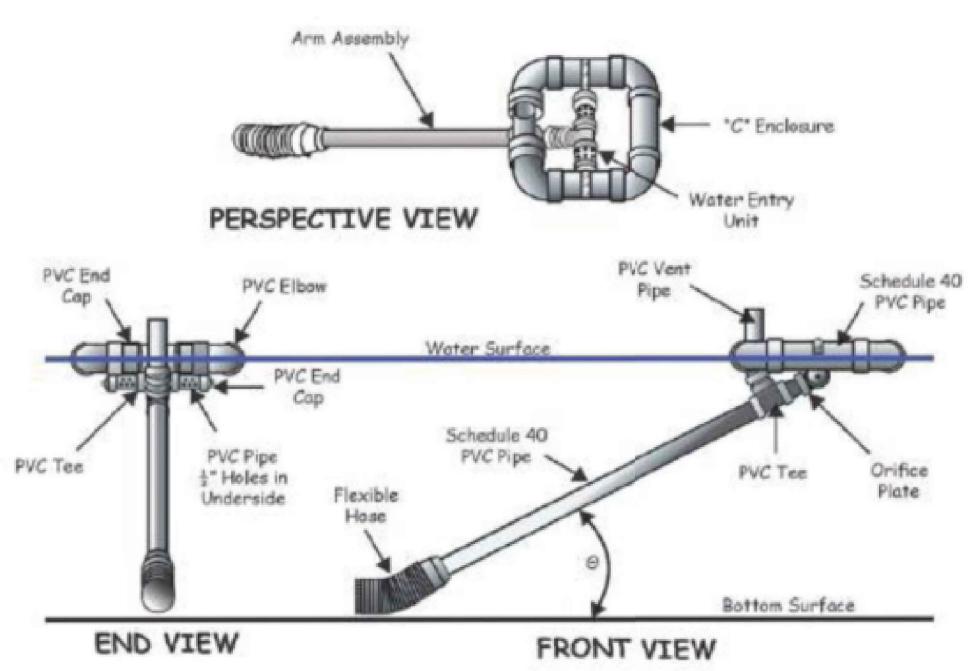
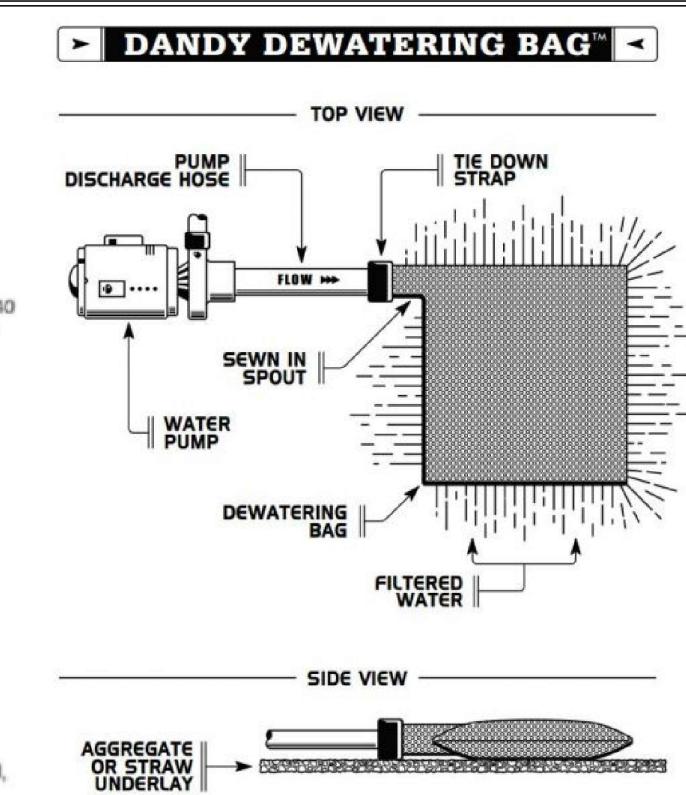


Figure 6.64a Schematic of a skimmer, from Pennsylvania Erosion and Sediment Pollution Control Manual, March, 2000.

NOTE:

CONTRACTOR SHALL USE THIS DEWATERING SKIMMER & SEDIMENT BAG CONFIGURATION FOR ALL DEWATERING.



{For added flow}

| 290 S. CASTELL AVE., STE | NEW BRAUNFELS, TX 781 | TBPELS FIRM F-10961 | TBPELS FIRM 1053600



DETAILS (2 OF 2)

FRIENDSHIP OAKS, UNIT

REVISION DESCRIPTION

REVISION DATE

DATE: AUGUST 2024

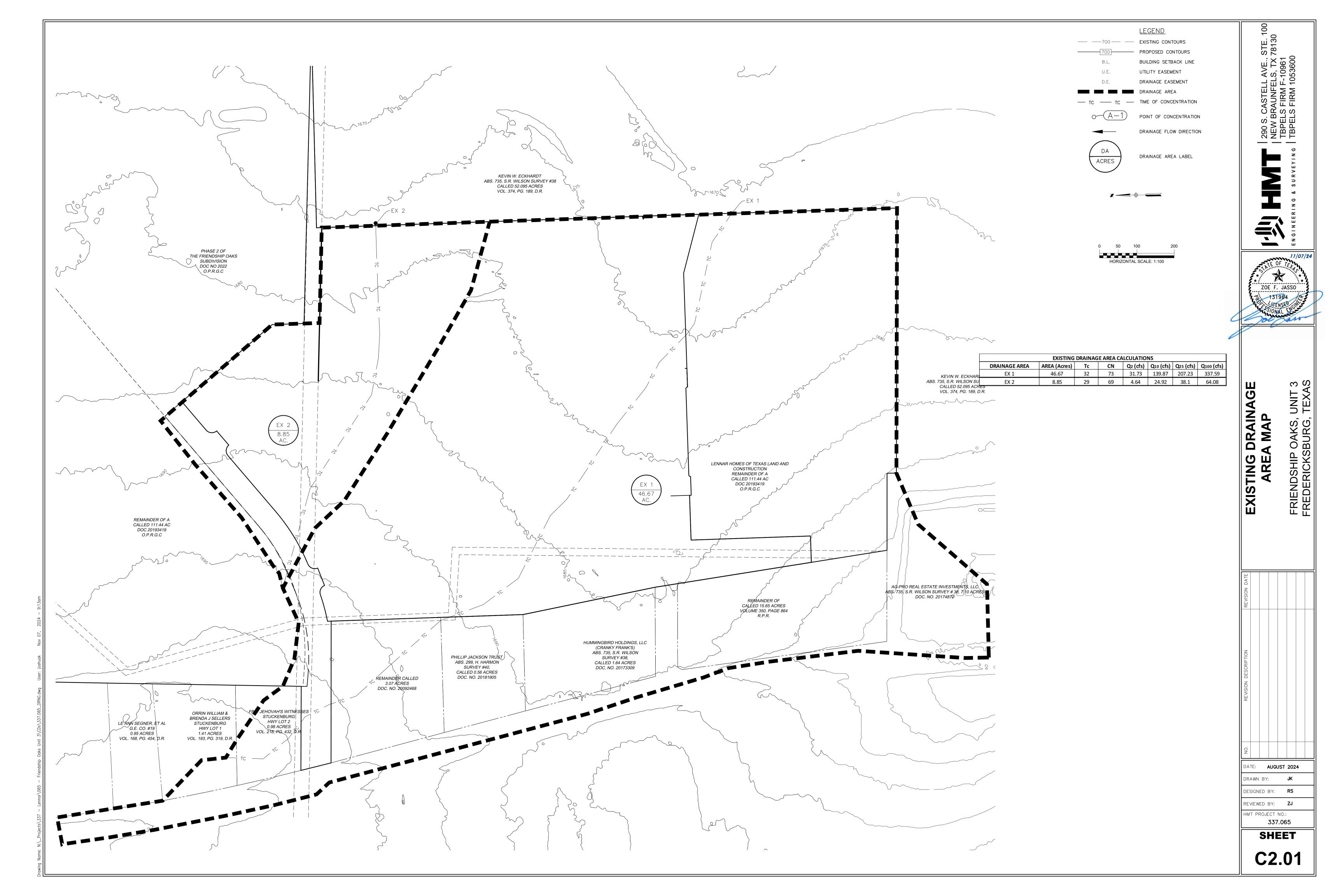
DRAWN BY: JK

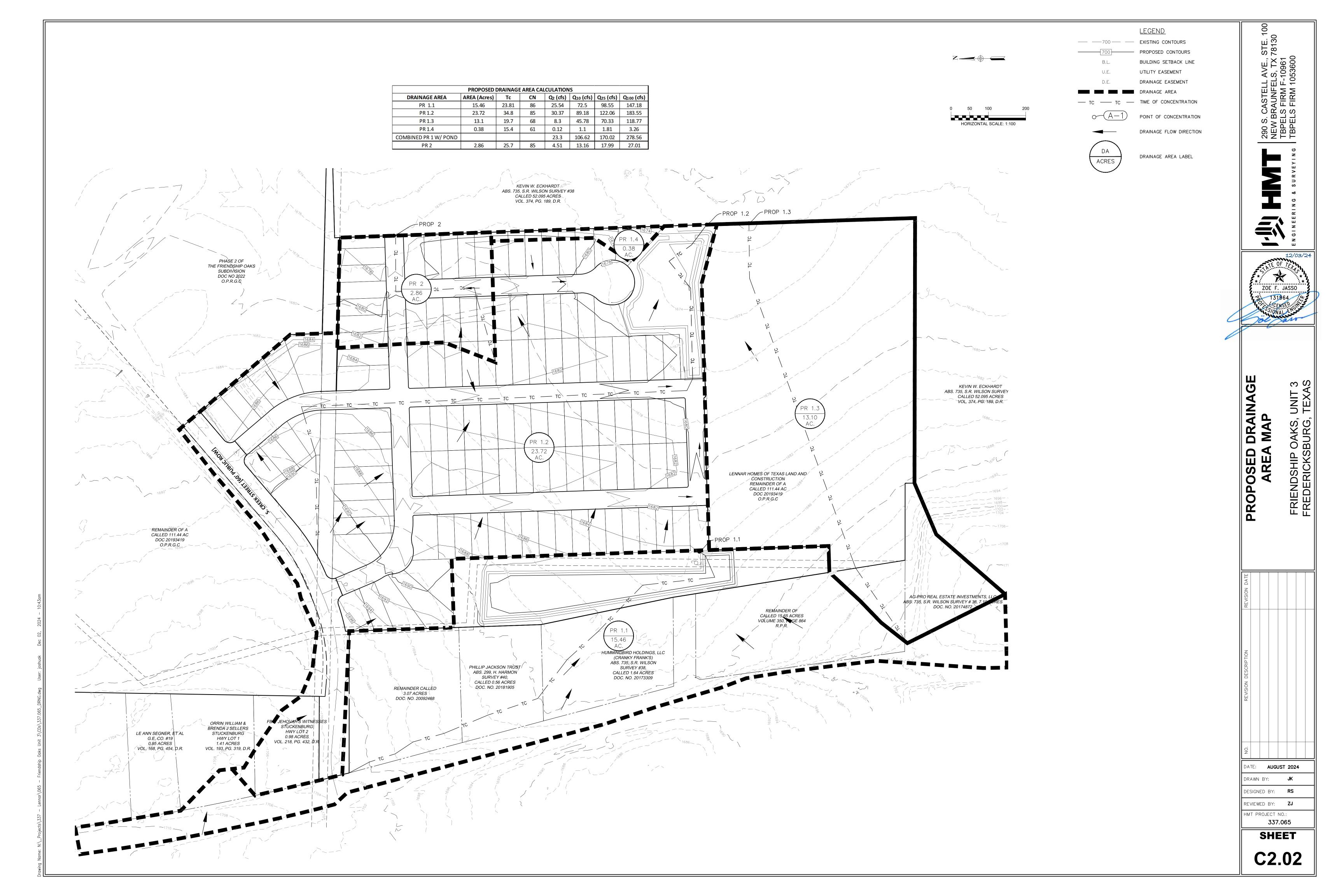
DESIGNED BY: RS

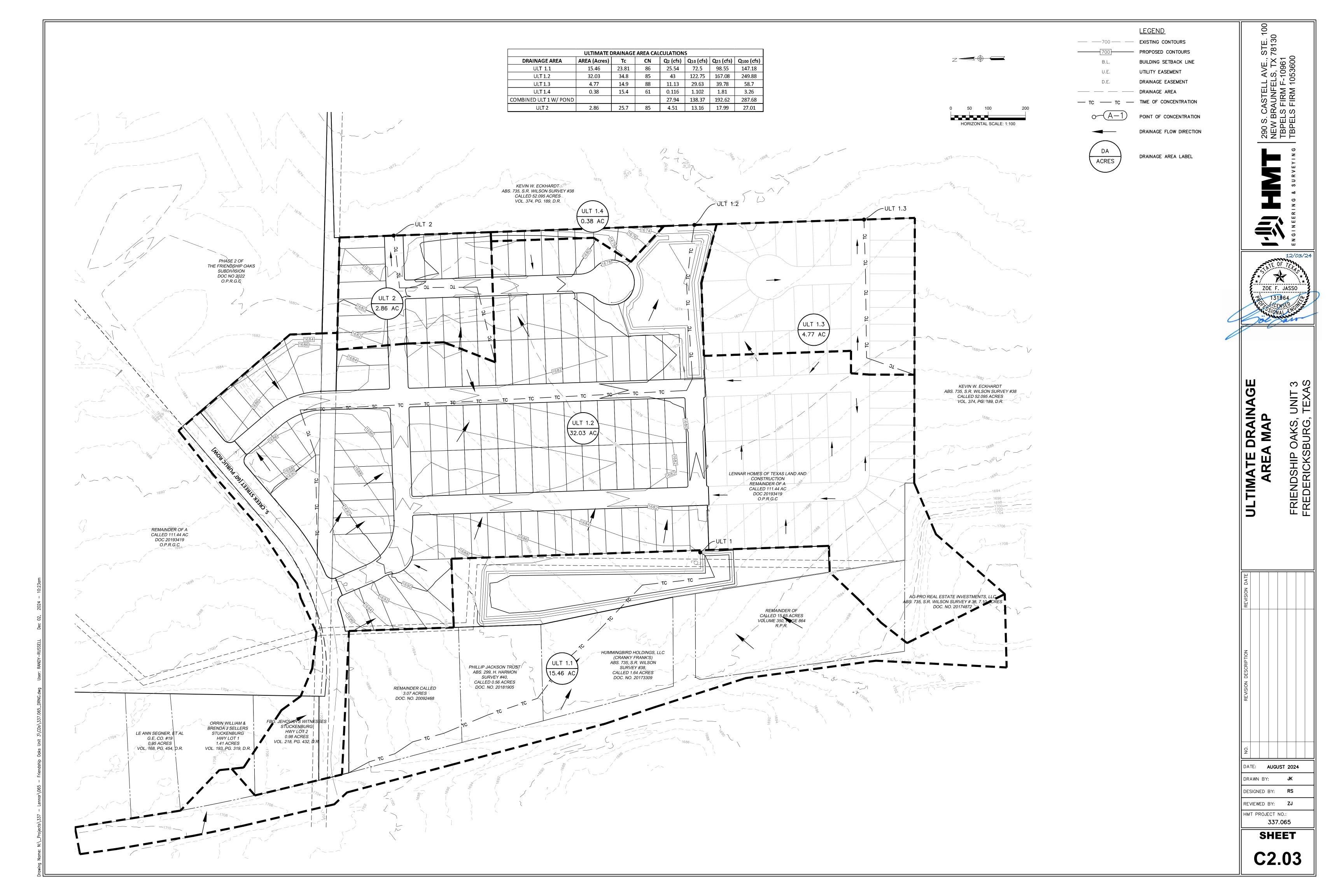
REVIEWED BY: ZJ

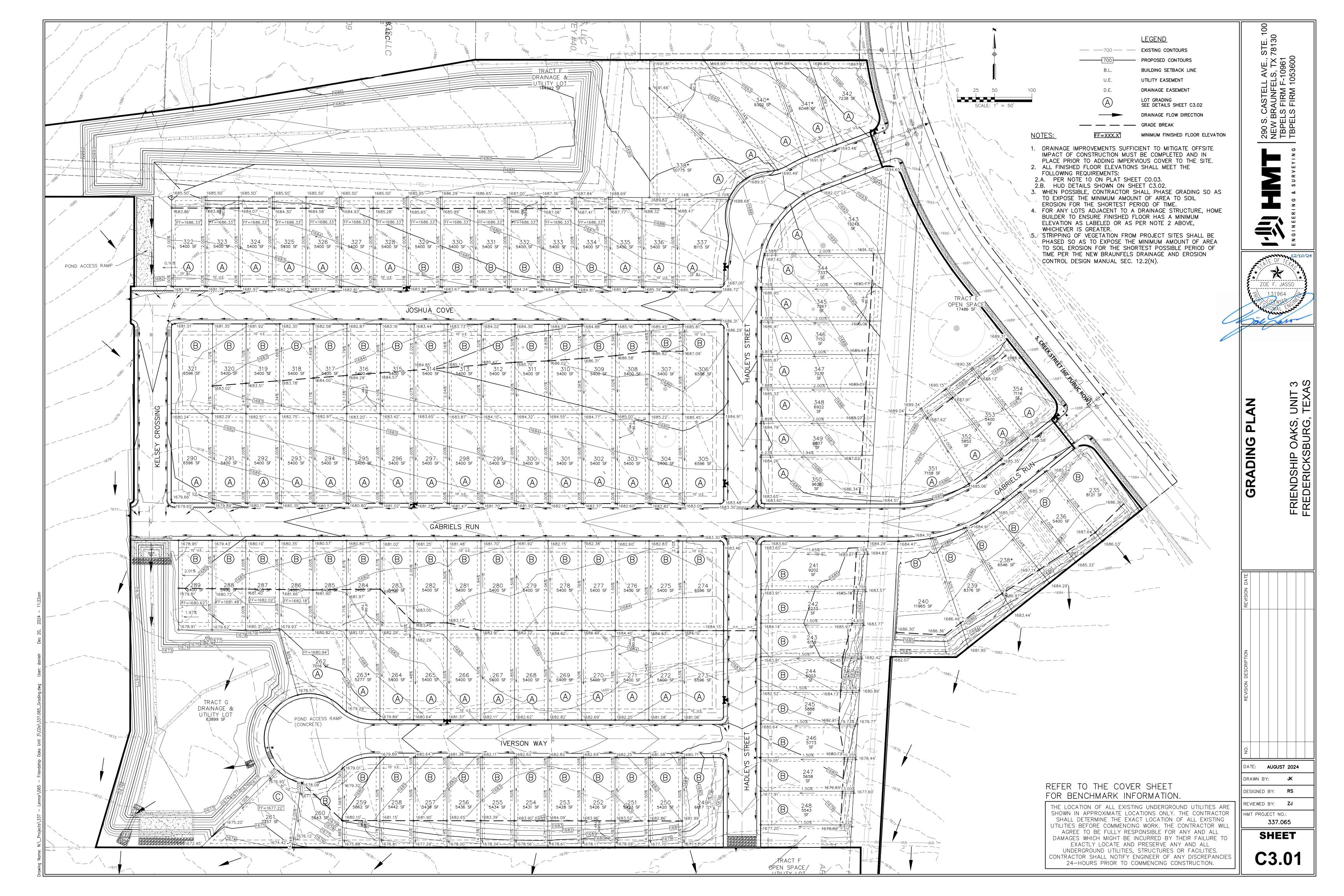
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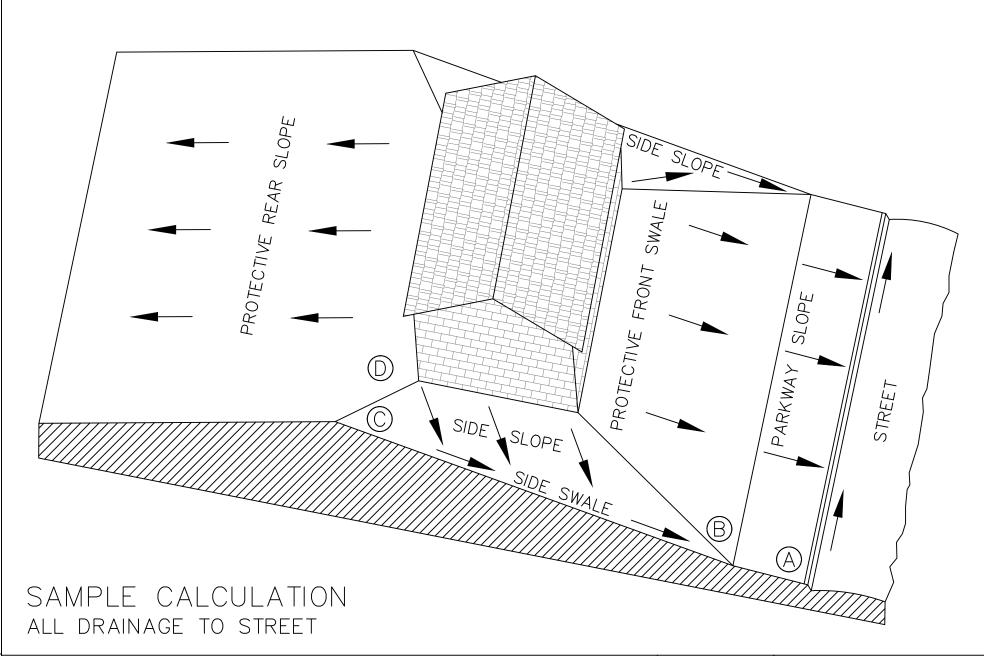
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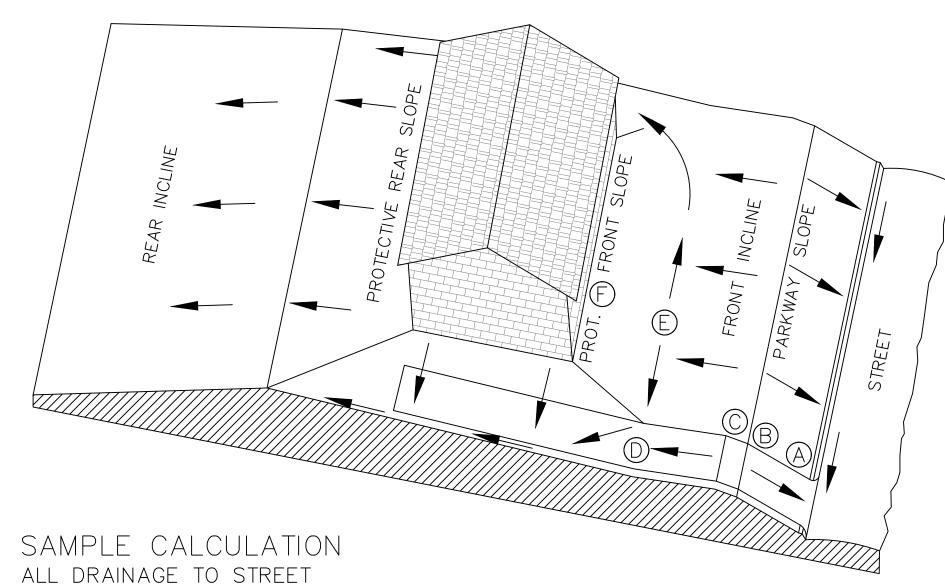












	COMPUTATION OF GRADING CONTROL LINE AF FOR A 60' WIDE JILDING LINE, 0.5% STREET, WITH 60' BUILDING DEPTH AND 2%	RESULTS OF 1% SWALES			
Α	CURB-TOP ON LOT LINE EXTENSION AT HIGH LOT CORNER		(- 1)		<u>CALCULATIONS</u> FOR 2% SWALES
AB BC	PARKWAY SLOPE: 15' GRASS AND WALK AT 1/4"/FT. (2%) SIDE SWALE: 85' GRASS AT 1/4"/FT. (2%)		(0.3')	2" (0.2') 11" (0.9')	$15 \times 0.25' = 3\frac{3}{4}"$
CD	SWALE TURN WITH 10' RADIUS:16' GRASS AT 1/4"/FT. (2%)		(0.3')	2" (0.2')	$85 \times 0.25' = 21\frac{3}{4}"$ $16 \times 0.25' = 4"$
DE**	REAR SWALE: 13' GRASS AT 1/4"/FT. (2%)	3"	(0.3')	2" (0.2')	$13 \times 0.25' = 3\frac{3}{4}"$
ĒF*	PROTECTIVE REAR SLOPE UP FROM HIGH POINT OF SWALES	3"	(0.3')	3" (0.3')	$10 \times 0.25' = 2\frac{1}{2}"$
SUB-TOT	AL AF FROM CURB TOP TO GROUND AT REAL BLDG WALL	35"	(3.0')	20" (1.7')	34 ³ / ₄ "
MINIMUM	RISE FROM CURB TOP TO SLAB FLOOR: 35" + 8"	43"	(3.6')	28" (2.3')	CALCULATIONS USE 0.25" PER FOOT GRADIENT FOR A
MINIMUM	RISE FOR WOOD FLOOR USING 8" JOISTS: 35" + 9"	54"	(4.5')	39" (3.3')	2% SWALE.

* WHERE THERE IS A HIGH BANK NEARBY OR A LONG SLOPE TOWARD HOUSE, A MINIMUM 6" PROTECTIVE SLOPE IS REQUIRED. ** LENGTH $\overline{DE} = [1/2(LOT WIDTH - (2x SWALE TURN RADIUS))] - [LOT WIDTH x (STREET GRADIENT x SWALE GRADIENT)]$

	SAMPLE A 25' BU						
	Α	CURB-TOP ON LOT LINE EXTENSION AT HIGH LOT CORNER					<u>CALCULATIONS</u> <u>FOR 2% SWALES</u>
	ĀB	PARKWAY SLOPE: 15' GRASS AND WALK AT 1/4"/FT. (2%)	4"	(0.3')	2"	(0.2')	$15 \times 0.25' = 3\frac{3}{4}"$
	BC	SIDE SWALE: 85' GRASS AT 1/4"/FT. (2%)	21"	(1.8')	11"	(0.9')	$85 \times 0.25' = 21\frac{3}{4}"$
	CD ∗	PROTECTIVE SIDE SLOPE @ REAR BLDG. WALL EXTENSION	3"	(0.3')	3"	(0.3')	$6 \times 0.25' = 1\frac{1}{2}"$
	SUB-TO	TAL AD FROM CURB TOP TO GROUND AT REAL BLDG WALL	27"	(2.4')	16"	(1.4')	26½"
-							CALCULATIONS USE 0.25" PER FOOT GRADIENT FOR A 2% SWALE.
	MINIMUM	RISE FROM CURB TOP TO SLAB FLOOR: 27" + 8"	35"	(2.9')	24"	(2.0')	
	MINIMUM	RISE FOR WOOD FLOOR USING 8" JOISTS: 35" + 9"	46"	(3.8')	35"	(2.9')	
).	* WHERE	THERE IS A HIGH BANK NEARBY OR A LONG SLOPE TOWARD	HOU	SE, A M	INIMUM	1 6" PROT	ECTIVE SLOPE IS REQUIRED.

		COMPUTATION OF GRADING CONTROL LINE $\overline{\text{AF}}$ FOR A 60' WID JILDING LINE, 13.5% DRIVEWAY, AND 16' FRONT SWALE $\overline{\text{DE}}$ AT				LTS OF WALES	CALCULATIONS	FOR SWALE
	А	CURB-TOP HIGH SIDE OF DRIVE NEAR LOW LOT CORNER					15 x 0.25'	= 3 <mark>3</mark> "
	ĀB	PARKWAY SLOPE: 15' GRASS AND WALK AT 1/4"/FT. (2%)	4"	(0.3')	2"	(0.2')	0 x 0.25'	= 0"
	BC	DRIVEWAY GRADE CHANGE: 4' VERTICAL CURVE FROM UP-	0"	(0.0')	0"	(0.0')	-11 x 1.625'	$= -17\frac{3}{4}$ "
		GRADE DRIVE IN STREET TO DOWN-GRADE DRIVE ON LOT					16 x 0.25'	= 4"
-	CD	_	18"	(-1.5')	-18"	(-1.5')	10 x 0.25'	= 2½"
		FRONT OF BUILDING: -11' AT 1\(\frac{1}{8}\)"/FT (13.5\(\frac{1}{8}\))						-7½"
	DE	FRONT SWALE: 16' GRASS AT 1/4"/FT. (2%)	4"	(0.3')	2"	(0.2')		
	ĒF*	PROT. FRONT SLOPE UP FROM HIGH POINT OF SWALES	3"	(0.3')	3"	(0.3')	CALCULATION:	
	SUB-T01	TAL AF FROM CURB TOP TO GROUND AT FRONT BLDG WALL	−7 "	(-1.0')	-11"	(1.3')	USE 0.25" PER FOOT GRA	ADIENT FOR
							A 2% SWALE.	
	MINIMUM	RISE FROM CURB TOP TO SLAB FLOOR: -7" + 8"	1"	(-0.3')	-3"	(0.7')	USE 1.625" PE GRADIENT FOR	
).	MINIMUM	RISE FOR WOOD FLOOR USING 8" JOISTS: -7" + 19"	12"	(-0.6')	8"	(0.3')	SWALE.	

* WHERE THERE IS A HIGH BANK NEARBY OR A LONG SLOPE TOWARD HOUSE, A MINIMUM 6" PROTECTIVE SLOPE IS REQUIRED.

LOT TYPE (A)

LOT TYPE ®

GENERAL SPECIFICATIONS FOR SITE PREPARATION

THIS ITEM SHALL CONSIST OF ALL CLEARING AND PREPARATION OF LAND TO BE FILLED, FILLING OF THE LAND, SPREADING, COMPACTION TESTING AND INSPECTION OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES AND SLOPES AS SHOWN ON THE APPROVED PLANS.

ALL ORGANIC MATTER SHALL BE REMOVED FROM THE SURFACE UPON WHICH THE FILL IS TO BE PLACED, AND SURFACE SHALL BE DISKED OR SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES (6"), ALL SURFACE RUTS OR OTHER UNEVEN FEATURES WILL BE LEVELED PRIOR TO FIELD DENSITY TESTING.

SCARIFYING THE AREA TO BE FILLED

COMPACTING THE AREA TO BE FILLED FOLLOWING THE CLEARING AND DISKING OR SCARIFYING OF THE FILL AREA, IT SHALL BE BLADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS. THE AREA SHALL BE BROUGHT TO ADEQUATE MOISTURE CONTENT AND COMPACTED (TYPICALLY) TO NOT LESS THAN NINETY PERCENT (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT ASTM D 1557 COMPACTION PROCEDURE, OR 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE THD-TEX-113-E COMPACTION PROCEDURE. ALL AREAS EXCEEDING (6") SIX INCHES IN DEPTH, MUST MEET WITH FHA/HUD HANDBOOK 4140.30 SPECIFICATIONS FOR LAND DEVELOPMENTS ON CONTROLLED EARTHWORK, DATASHEET 79G.

THE MATERIALS USED SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, SUCH AS TREES, BRUSH AND RUBBISH.

DEPTH AND MIXING OF FILL LAYERS

THE SELECTED FILL MATERIAL SHALL BE PLACED IN LEVEL, UNIFORM LAYERS WHICH, WHEN COMPACTED, SHALL HAVE A DENSITY CONFORMING TO THE STIPULATED ABOVE.

EACH LAYER SHALL BE THOROUGHLY MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. COMPACTED LAYER THICKNESS MAY VARY DEPENDING ON THE COMAPCTION EQUIPMENT OF THE DEMONSTRATED CAPABILITY.

WHEN FILL MATERIAL INCLUDES ROCK, THE MAXIMUM ROCK SIZE SHALL BE AS APPROVED BY THE GEOTECHNICAL ENGINEER. NO LARGE ROCKS SHALL BE ALLOWED TO NEST AND ALL VOIDS MUST BE FILLED WITH SMALL STONES OR SOIL AND ADEQUATELY COMPACTED.

COMPACTION EQUIPMENT SHALL BE CAPABLE OF COMPACTING THE FILL TO THE SPECIFIED DENSITY. COMPACTION SHALL BE ACCOMPLISHED WHILE THE FILL MATERIAL IS AT OR NEAR THE APPROPRIATE MOISTURE CONTENT. COMPACTION OF EACH LAYER SHALL BE CONTINUOUS OVER THE ENTIRE STRUCTURAL AREA (BENEATH PROPOSED STRUCTURES).

THE FACES OF FILL SLOPES SHALL BE COMPACTION OF THE SLOPE FACE MAY BE DONE PROGRESSIVELY IN INCREMENTS OF THREE TO FIVE FEET (3' TO 5') IN FILL HEIGHT AS THIS FILL PROGRESSES OR AFTER THE FILL HAS BEEN BROUGHT TO ITS TOTAL HEIGHT.

FIELD DENSITY TESTS SHALL BE PERFORMED ON ALL LAYERS OF FILL WHEN THE FILL IS BEING PLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE MAXIMUM FILL HEIGHT BETWEEN DENSITY TESTING SHALL BE TWELVE INCHES (12"). ALL TESTING SHALL BE REQUESTED BY THE CONTRACTOR TO MEET THE CONTRACTOR'S CONSTRUCTION SCHEDULE. NOTIFICATION BY THE CONTRACTOR TO CONDUCT TESTS SHALL BE AT LEAST THE DAY BEFORE. THIS NOTIFICATION SHALL INCLUDE THE FILL AREA LOCATION (LOT AND BLOCK), THE LIFT OR HEIGHT OF FILL AND APPROXIMATED DESIRED TIME OF TESTING. WHEN THESE TEST INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED AND RETESTED AT THE EXPENSE OF THE CONTRACTOR UNLESS THE CONTRACTOR CAN SHOW EVIDENCE THAT CIRCUMSTANCES BEYOND HIS CONTROL REQUIRED THE RETESTING. GENERALLY, THE SPECIFIC TESTING WILL BE AS FOLLOWS AND CONDUCTED BY A GEO-TECHNICAL ENGINEER OR STAFF.

1. THE LAND TO BE FILLED (PREPARED SUBGRADE) SHALL BE PREPARED AND TESTED AT A FREQUENCY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. 2. THE FIRST LIFT OF COMPACTED FILL (GENERALLY 8-12 IN.) SHALL BE TESTED AS DETERMINED BY THE GEOTECHNICAL ENGINEER. ANY AREAS SUPPORTING THE PROPOSED STRUCTURES REQUIRING FILL SHALL BE TESTED FOR DENSITY COMPLIANCE.

3. FILLS SHALL BE TESTED AT A MAXIMUM OF EACH TWELVE INCHES (12") OF FILL. 4. TEST RESULTS WILL BE PROVIDED BY THE FIELD TECHNICIAN TO THE CONTRACTOR WHEN POSSIBLE: HOWEVER, ALL TEST RESULTS ARE TO BE REVIEWED BY THE GEOTECHNICAL ENGINEER FOR COMPLIANCE. THE ENGINEER WILL NOTIFY THE CONTRACTOR OF ALL TEST RESULTS.

AREAS INVOLVING CUT ON THE PORTION AND FILL ON ANOTHER PORTION OF A SPECIFIC LOT SHALL BE REQUIRED ON EACH CUT/FILL LOT FOR THE PURPOSE OF DETERMINING UNIFORMITY OF THE AREA SUPPORTING THE PROPOSED STRUCTURES.

HUD 79-G REQUIREMENT FOR FILL MATERIAL OF 6 INCHES AND MORE WILL BE CONDUCTED. ALL CUT AREAS WILL ALSO MEET THE REQUIREMENTS FOR HUD 79-G. AFTER SITE GRADING IS COMPLETED, GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CONTRACTOR AND OWNER A 79-G LETTER.

drainage note FINISHED FLOOR ELEVATIONS

THE ELEVATION OF THE LOWEST FLOOR SHALL BE AT LEAST 10 INCHES ABOVE THE FINISHED GRADE OF THE SURROUNDING GROUND, WHICH SHALL BE SLOPED IN A FASHION SO AS TO DIRECT STORMWATER AWAY FROM THE STRUCTURE. PROPERTIES ADJACENT TO STORMWATER CONVEYANCE STRUCTURES MUST HAVE FLOOR SLAB ELEVATION OR BOTTOM OF FLOOR JOISTS A MINIMUM OF ONE FOOT ABOVE THE 100-YEAR WATER FLOW ELEVATION IN THE STRUCTURE. DRIVEWAYS SERVING HOUSES ON THE DOWNHILL SIDE OF THE STREET SHALL HAVE A PROPERLY SIZED CROSS SWALE PREVENTING RUNOFF FROM ENTERING THE GARAGE.

AD

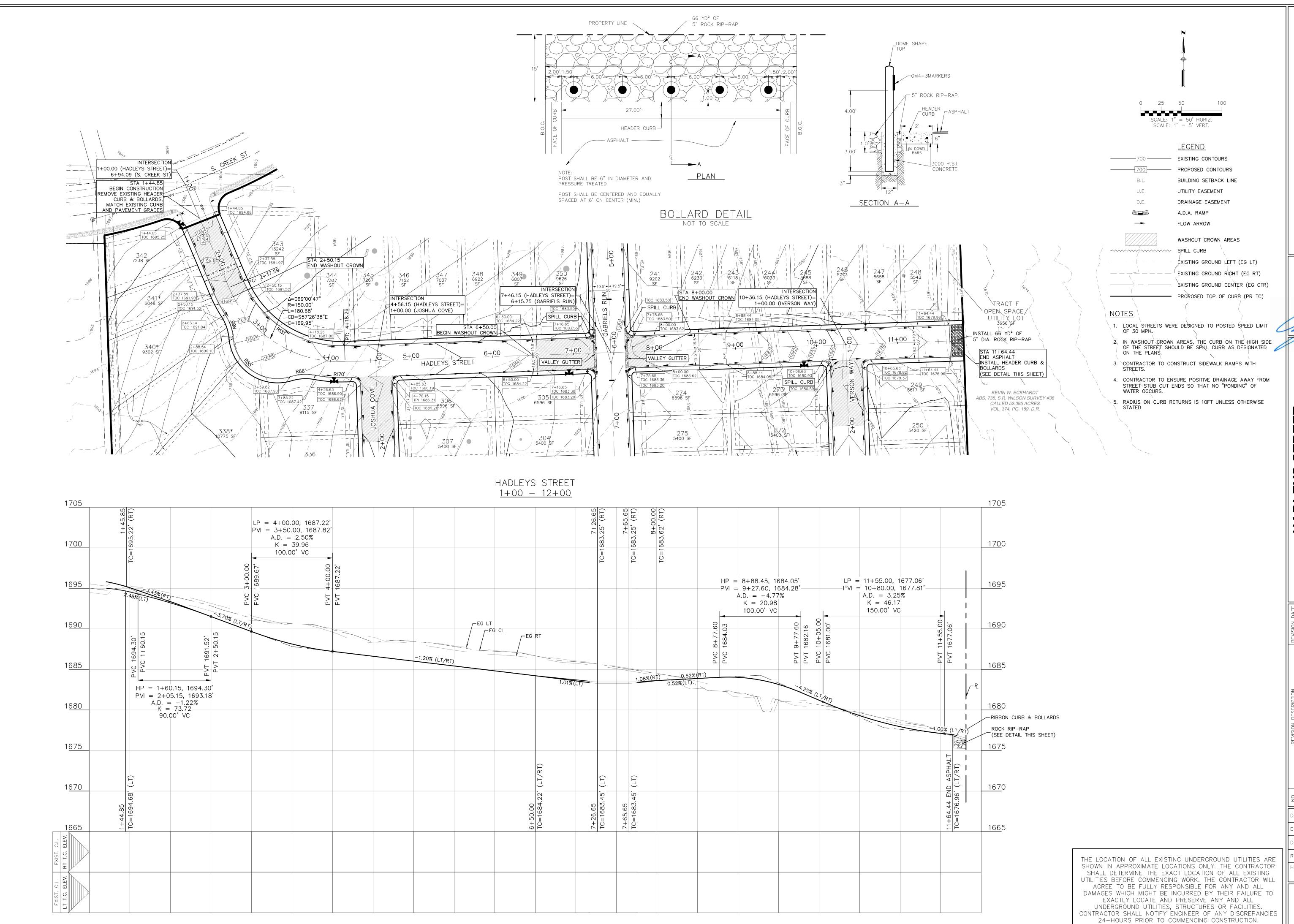
8/28/2023

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October 2022 DRAWN BY:

DESIGNED BY: RS REVIEWED BY:

HMT PROJECT NO .: 337.065



CASTELL AVE., STE. 10 RAUNFELS, TX 78130 S FIRM F-10961

NEW BRAUNFELS, T TBPELS FIRM F-1096

ENGINEERING & SURVEYING

ZOE F. JASSO
31964
206 SOONAL ENGINEERS

UNIT 3 TEXAS

HADLEYS STREET PLAN & PROFILE

D. REVISION DESCRIPTION REVISION DATE

DATE: AUGUST 2024 DRAWN BY: JK

DRAWN BY: **JK**DESIGNED BY: **RS**

REVIEWED BY: ZJ

HMT PROJECT NO.: 337.065

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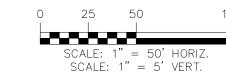
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<u>LEGEND</u>

EXISTING CONTOURS PROPOSED CONTOURS BUILDING SETBACK LINE UTILITY EASEMENT DRAINAGE EASEMENT A.D.A. RAMP

FLOW ARROW

WASHOUT CROWN AREAS SPILL CURB

EXISTING GROUND LEFT (EG LT) EXISTING GROUND RIGHT (EG RT) EXISTING GROUND CENTER (EG CTR)

ACCESSIBLE CROSSING AREA CONTRACTOR TO ENSURE MAX 2% CROSS SLOPE IN THESE AREAS SIDEWALK RAMP TYPE TO BE CONSTRUCTED AT TIME OF STREET CONSTRUCTION

PROPOSED TOP OF CURB (PR TC)

(SEE DETAIL SHEET C4.11 & C4.12) SIDEWALK TO BE CONSTRUCTED BY SITE DEVELOPMENT CONTRACTOR

- 1. LOCAL STREETS WERE DESIGNED TO POSTED SPEED LIMIT OF 30 MPH.
- 2. IN WASHOUT CROWN AREAS, THE CURB ON THE HIGH SIDE OF THE STREET SHOULD BE SPILL CURB AS DESIGNATED ON THE PLANS.
- 3. CONTRACTOR TO CONSTRUCT SIDEWALK RAMPS WITH STREETS.
- 4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING" OF WATER OCCURS.
- 5. RADIUS ON CURB RETURN IS 10 FT UNLESS OTHERWISE

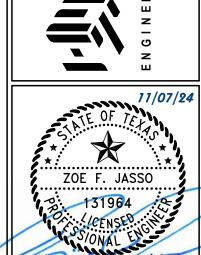
THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR

SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING

UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL

AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL

DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

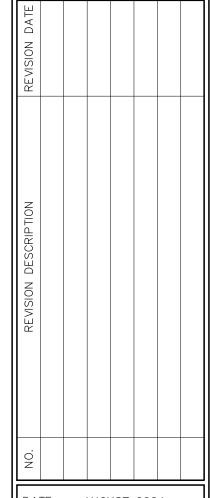


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290 S. CASTELL AVE., S NEW BRAUNFELS, TX 78 TBPELS FIRM F-10961 TBPELS FIRM 1053600

UNIT 3 TEXAS

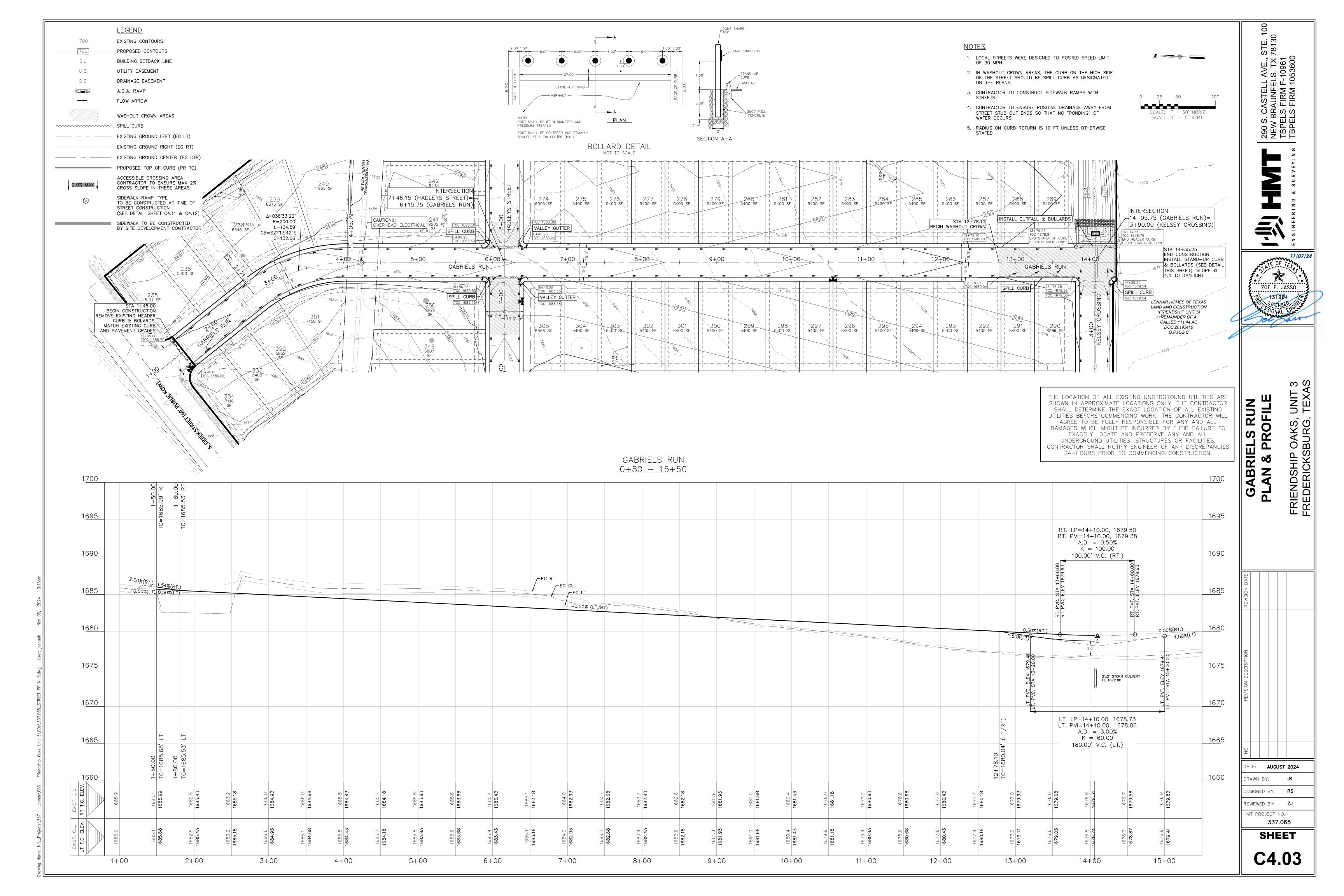
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DATE: **AUGUST 2024** DRAWN BY: **JK**

DESIGNED BY: RS REVIEWED BY: **ZJ**

HMT PROJECT NO .: 337.065



290 S. CASTELL AVE., STE NEW BRAUNFELS, TX 7813 TBPELS FIRM F-10961 TBPELS FIRM 1053600

GINEERING & SURVEYING

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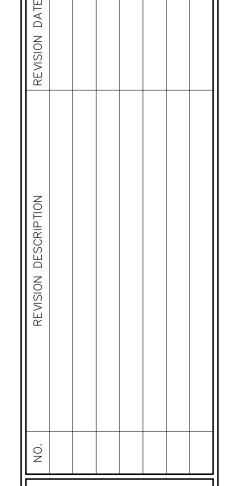
SE AREAS

AT TIME OF

4.11 & C4.12)

SON WAY
& PROFILE

IVER



DATE: AUGUST 2024

DRAWN BY: JK

DRAWN BY: **JK**DESIGNED BY: **RS**

REVIEWED BY: **ZJ** HMT PROJECT NO.:

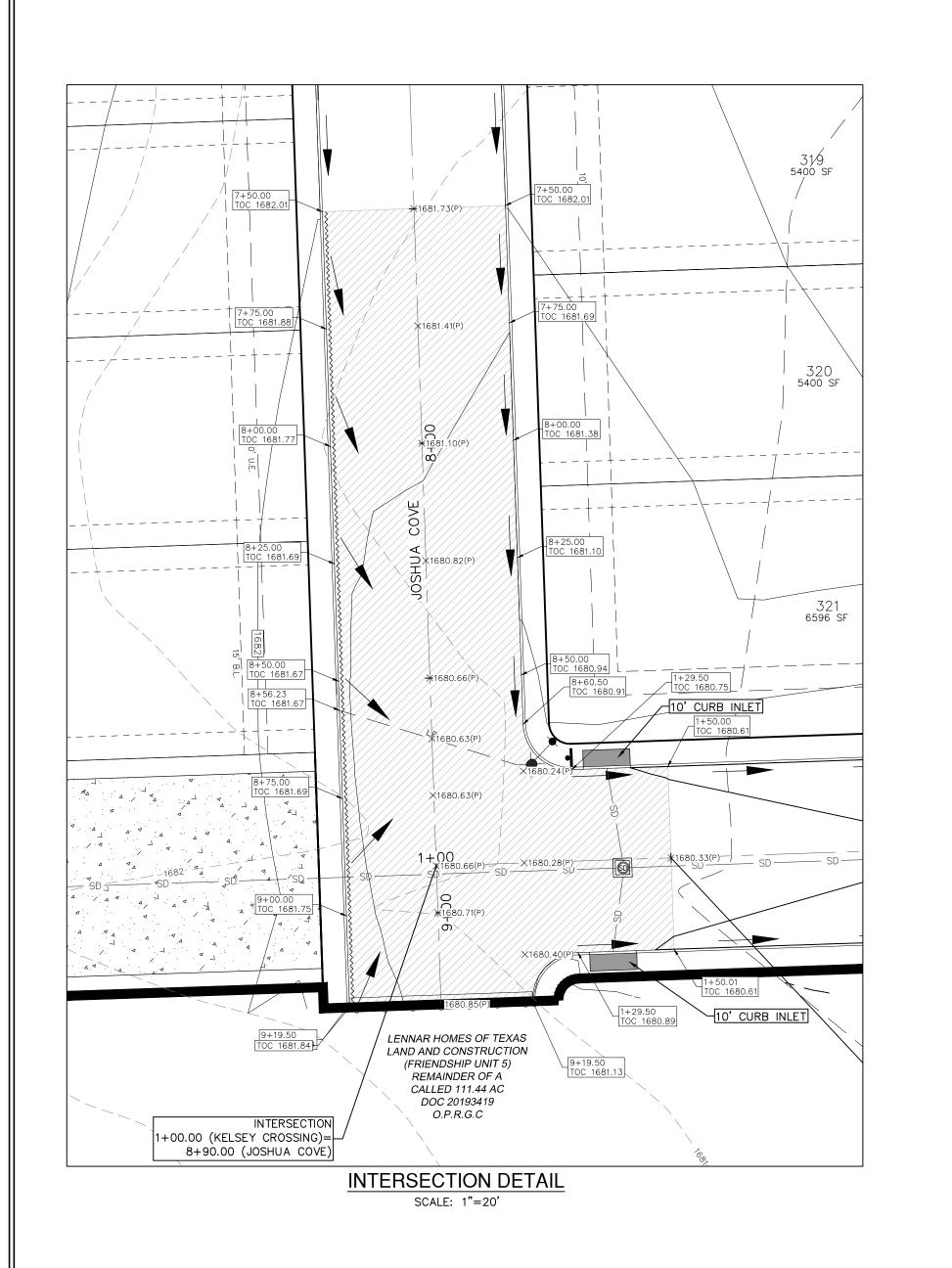
DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES.

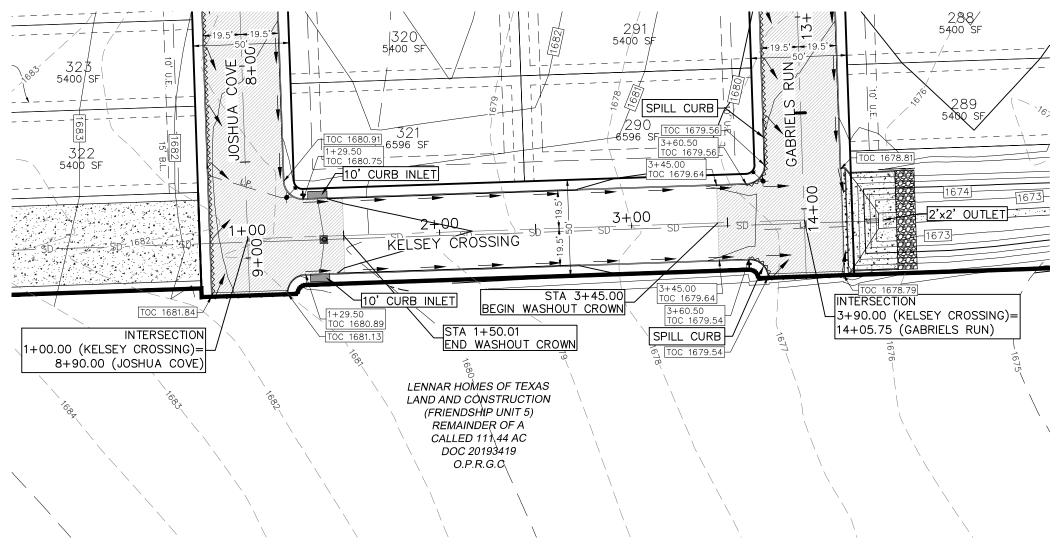
CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24—HOURS PRIOR TO COMMENCING CONSTRUCTION.

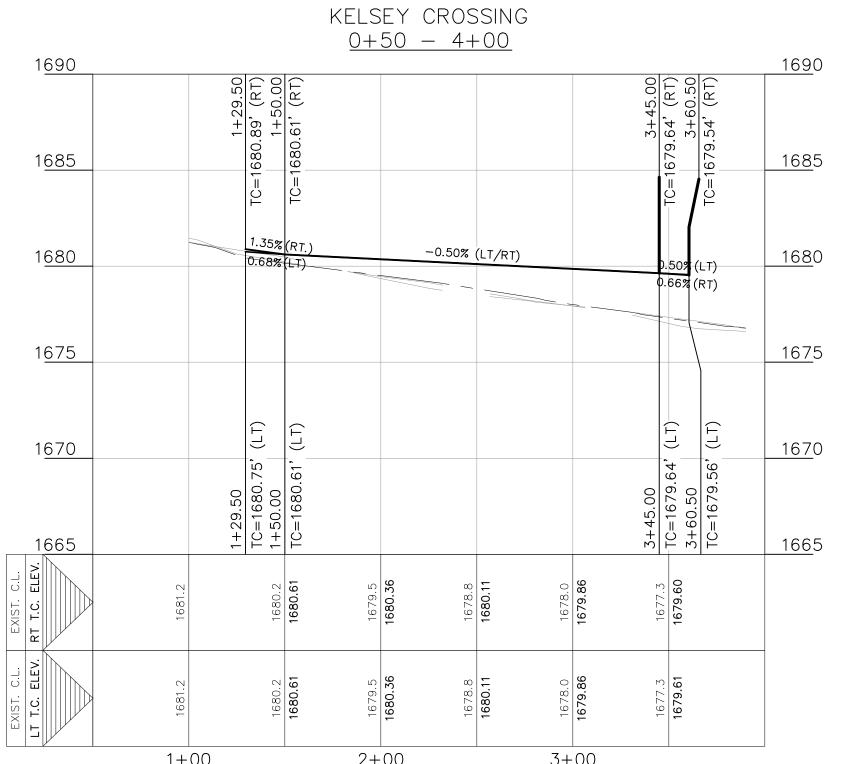
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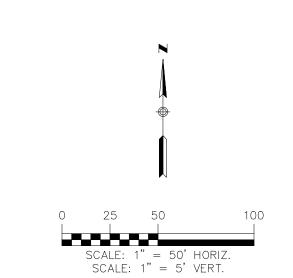






<u>NOTES</u>

- 1. LOCAL STREETS WERE DESIGNED TO POSTED SPEED LIMIT OF 30 MPH.
- 2. IN WASHOUT CROWN AREAS, THE CURB ON THE HIGH SIDE OF THE STREET SHOULD BE SPILL CURB AS DESIGNATED ON THE PLANS.
- 3. CONTRACTOR TO CONSTRUCT SIDEWALK RAMPS WITH
- 4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING" OF WATER OCCURS.
- 5. RADIUS ON CURB RETURN IS 10 FT UNLESS OTHERWISE STATED



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TOC 1680.04

<u>LEGEND</u> EXISTING CONTOURS PROPOSED CONTOURS BUILDING SETBACK LINE UTILITY EASEMENT DRAINAGE EASEMENT A.D.A. RAMP FLOW ARROW WASHOUT CROWN AREAS SPILL CURB EXISTING GROUND LEFT (EG LT) EXISTING GROUND RIGHT (EG RT) EXISTING GROUND CENTER (EG CTR) — PROPOSED TOP OF CURB (PR TC)

> 11/07/24 ZOE F. JASSO

CROSSING PROFILE CROS

5400 SF

+78.09

C 1680.04

UNIT 3 TEXAS LSE

AUGUST 2024

DRAWN BY: DESIGNED BY: RS

REVIEWED BY: ZJ HMT PROJECT NO .:

337.065

SHEET

TOC 1679.93 291 5400 SF 3+50.00 OC 1679.03 SPILL CURB [/] 290 6596 SF X1678.56(P) X1678.52(P) -1674 TOC 1678.79 3+45.00 TOC 1679.64 TOC 1679.54 14+35.25 TOC 1678.79 INTERSECTION 3+60.50 TOC 1679.54 3+90.00 (KELSEY CROSSING)= 14+05.75 (GABRIELS RUN) SPILL CURB

*1679.76(P)

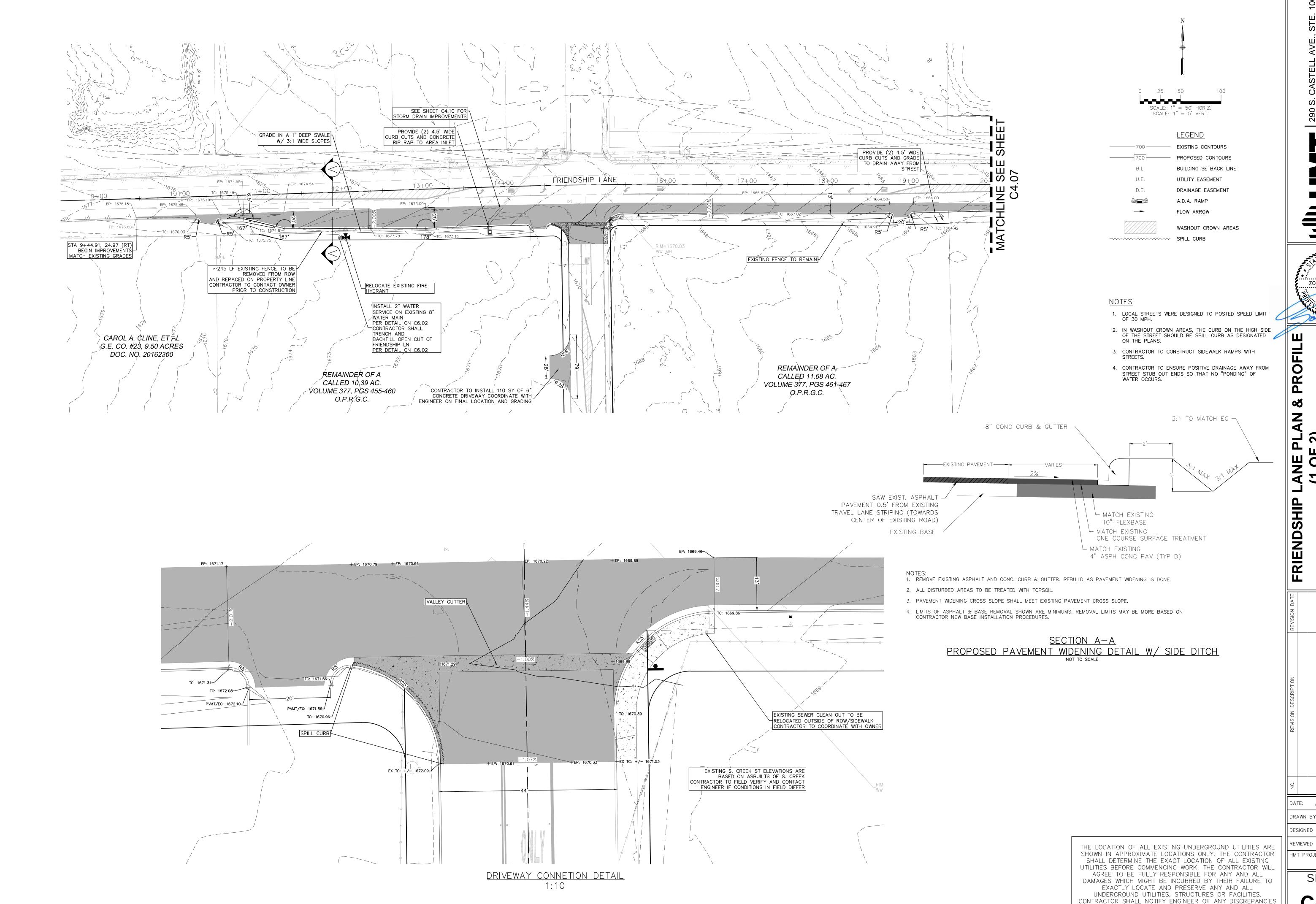
INTERSECTION DETAIL SCALE: 1"=20'

TOC 1679.54

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR \parallel SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES.

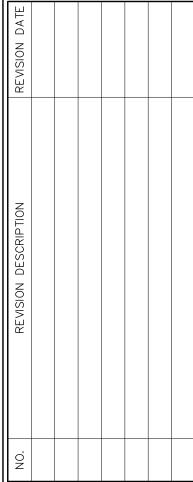
CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

2+00 1+00 3+00



290 S. CANEW BRATER ITBPELS I





DATE: AUGUST 2024 DRAWN BY: **JK**

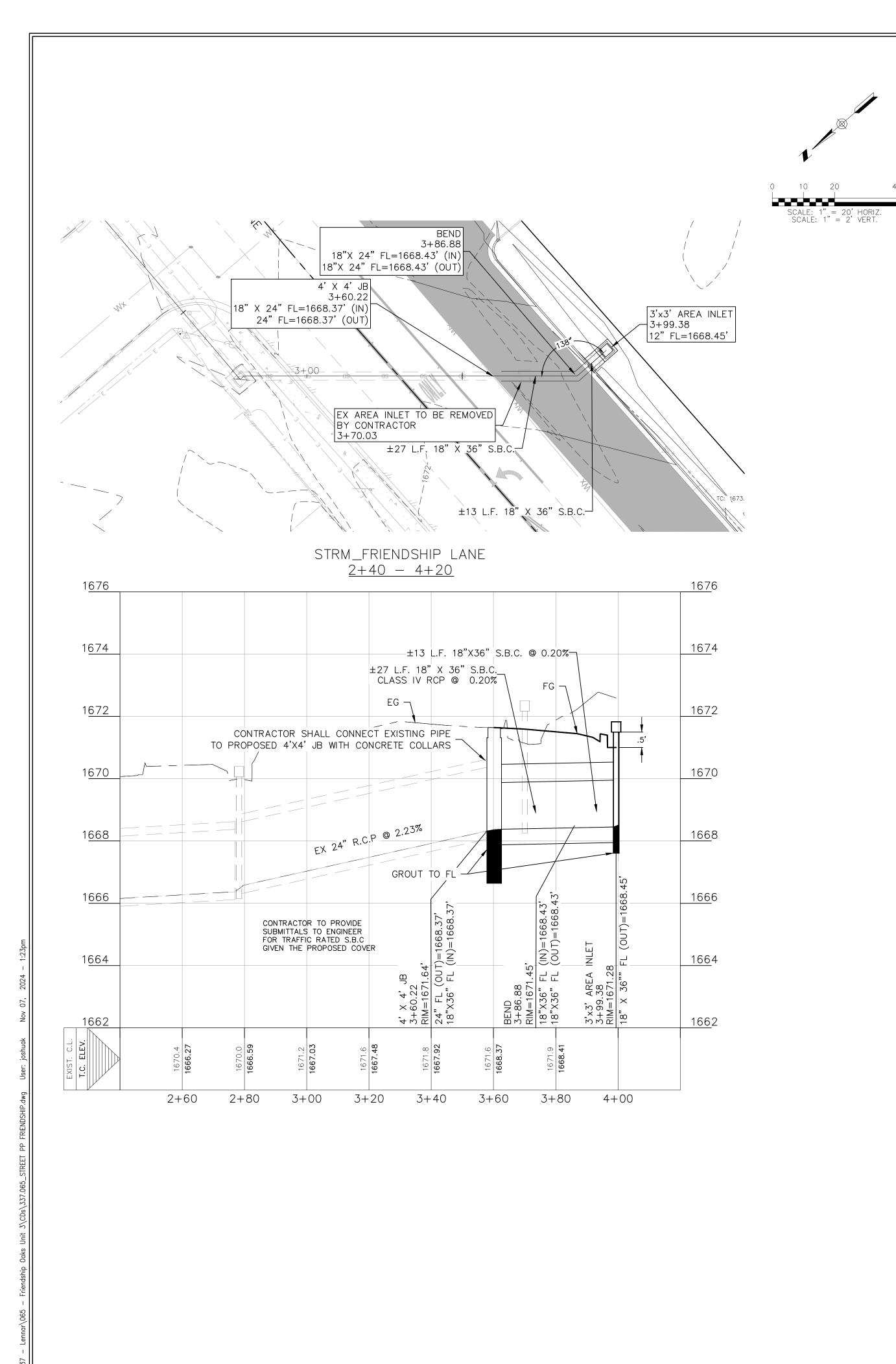
DESIGNED BY: RS

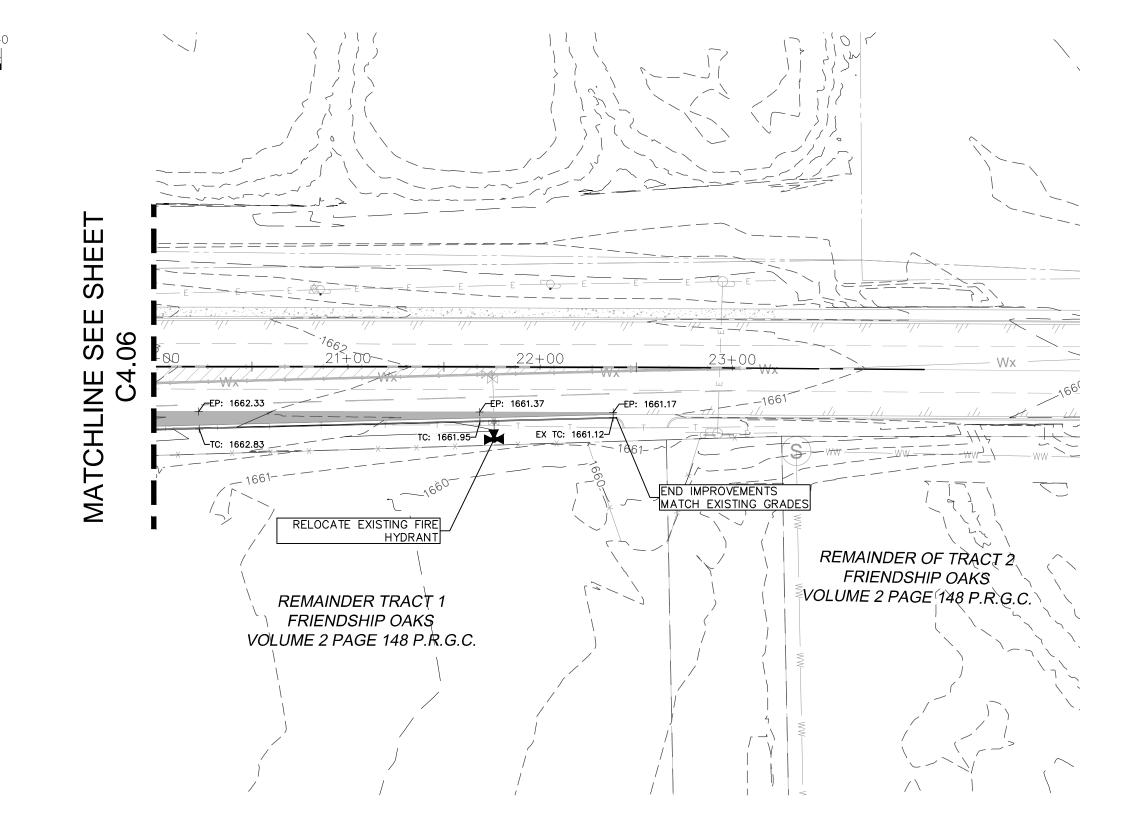
REVIEWED BY: **ZJ** HMT PROJECT NO .:

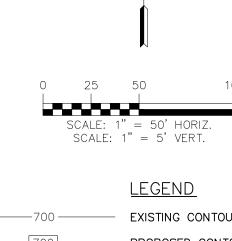
337.065

SHEET

24-HOURS PRIOR TO COMMENCING CONSTRUCTION.



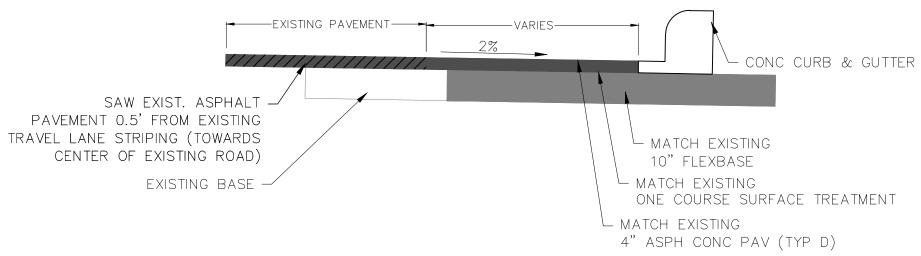




EXISTING CONTOURS PROPOSED CONTOURS BUILDING SETBACK LINE UTILITY EASEMENT DRAINAGE EASEMENT A.D.A. RAMP FLOW ARROW WASHOUT CROWN AREAS

<u>NOTES</u>

- LOCAL STREETS WERE DESIGNED TO POSTED SPEED LIM OF 30 MPH.
- 2. IN WASHOUT CROWN AREAS, THE CURB ON THE HIGH S OF THE STREET SHOULD BE SPILL CURB AS DESIGNATED ON THE PLANS.
- CONTRACTOR TO CONSTRUCT SIDEWALK RAMPS WITH STREETS.
- 4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING" OF WATER OCCURS.



1. REMOVE EXISTING ASPHALT AND CONC. CURB & GUTTER. REBUILD AS PAVEMENT WIDENING IS DONE.

- 2. ALL DISTURBED AREAS TO BE TREATED WITH TOPSOIL.
- 3. PAVEMENT WIDENING CROSS SLOPE SHALL MEET EXISTING PAVEMENT CROSS SLOPE.
- 4. LIMITS OF ASPHALT & BASE REMOVAL SHOWN ARE MINIMUMS. REMOVAL LIMITS MAY BE MORE BASED ON CONTRACTOR NEW BASE INSTALLATION PROCEDURES.

PROPOSED PAVEMENT WIDENING DETAIL NOT TO SCALE

> THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR $\| \| \|$ SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO

EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

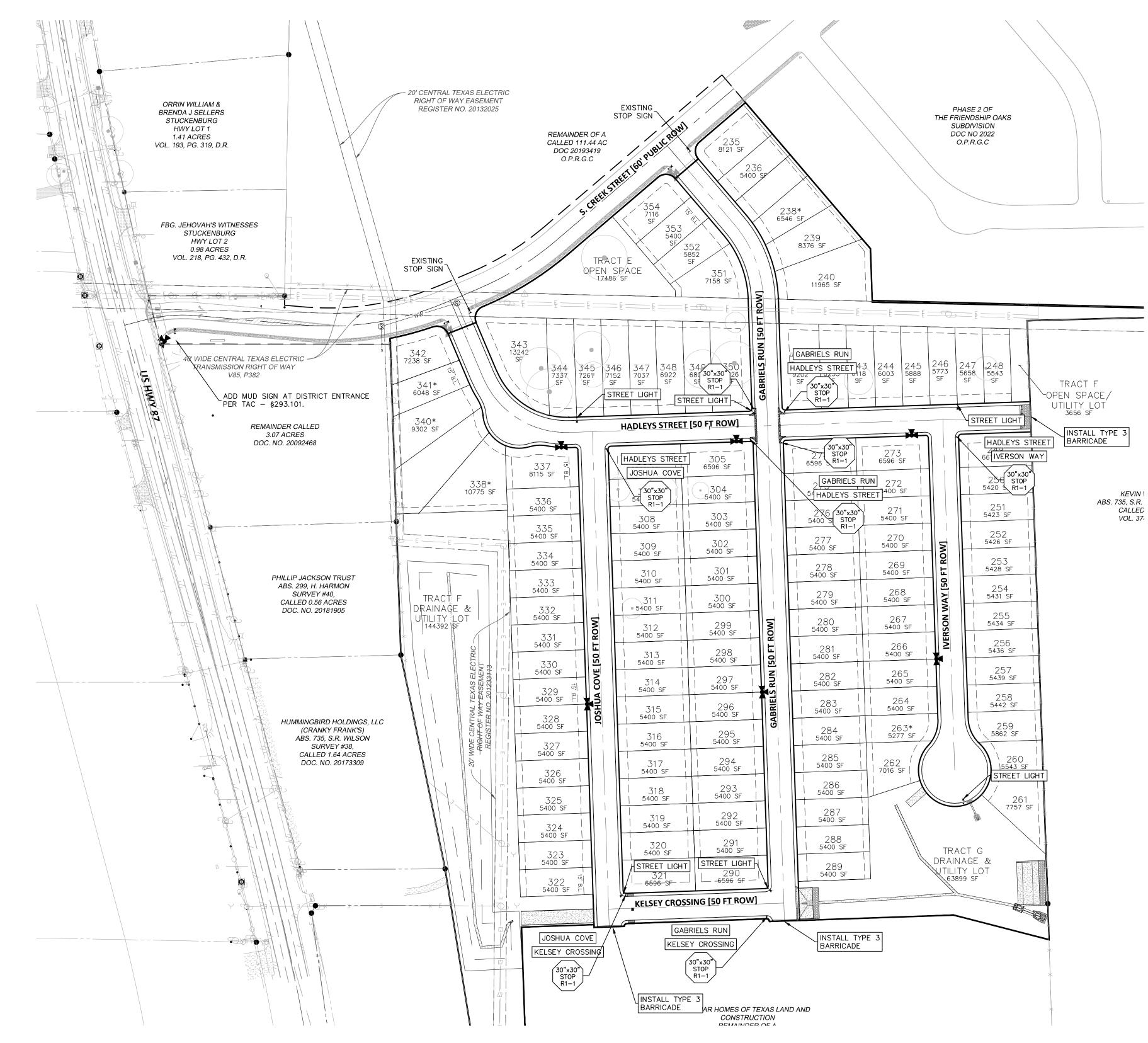
RO

RIEND

DATE: AUGUST 2024 DRAWN BY: **JK**

DESIGNED BY: RS

REVIEWED BY: **ZJ** HMT PROJECT NO .: 337.065



1. LOCAL STREETS WERE DESIGNED TO POSTED SPEED LIMIT OF 30 MPH.

HORIZONTAL SCALE: 1:100

- 2. IN WASHOUT CROWN AREAS, THE CURB ON THE HIGH SIDE OF THE STREET SHOULD BE SPILL CURB AS DESIGNATED ON THE PLANS.
- 3. CONTRACTOR TO CONSTRUCT SIDEWALK RAMPS WITH
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING"
- 5. ALL SIGNAGE MUST COMPLY WITH TXMUTCD

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REGULATORY, WARNING AND STREET NAME SIGNS AND SIGN

- STREET NAME SIGNS ARE FLAT, GREEN BLANKS WITH 9" CROSS BLADES AND 9" X 1 3/4" SQUARE POST CAP
- LETTERS 4.5" HIGH, ONLY THE FIRST LETTER IN EACH
- VEREINS KIRCHE STICKER IS 5'X7" •A. ONLY REQUIRED TO BE CONSISTENT WITH EXISTING
- 12'X 1 3/4" TELESPAR POST
- 18" X 2 1/4" TELESPAR SLEEVE

<u>BRACKETS</u>

- 30" STOP SIGN (HIP GRADE) OR 30" YIELD SIGN (HIP
- BOTTOM OF SIGN 7 FEET FROM THE GROUND

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE

UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL

DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING

*

ZOE F. JASSO

AUGUST 2024

DESIGNED BY: RS

EVIEWED BY: ZJ 337.065

SHEET

C4.08

GILLESPIE COUNTY MUNICIPAL UTILITY DISTRICT NO 1

A POLITICAL SUBDIVISION OF THE STATE OF TEXAS

TX5-2T

OF WATER OCCURS. SIGNAGE NOTES <u>INSTALLATION</u> MOUNTS IN ACCORDANCE WITH APPROVED ENGINEERING PLANS. STREET NAME SIGN

VOL. 37. • FONT - ROADGEEK 2005 SERIES 1B

NAME IS CAPITALIZED

 BLOCK RANGE NUMBERS IN THE BOTTOM LEFT AND RIGHT CORNERS

SIGNS IN THE SUBDIVISION.

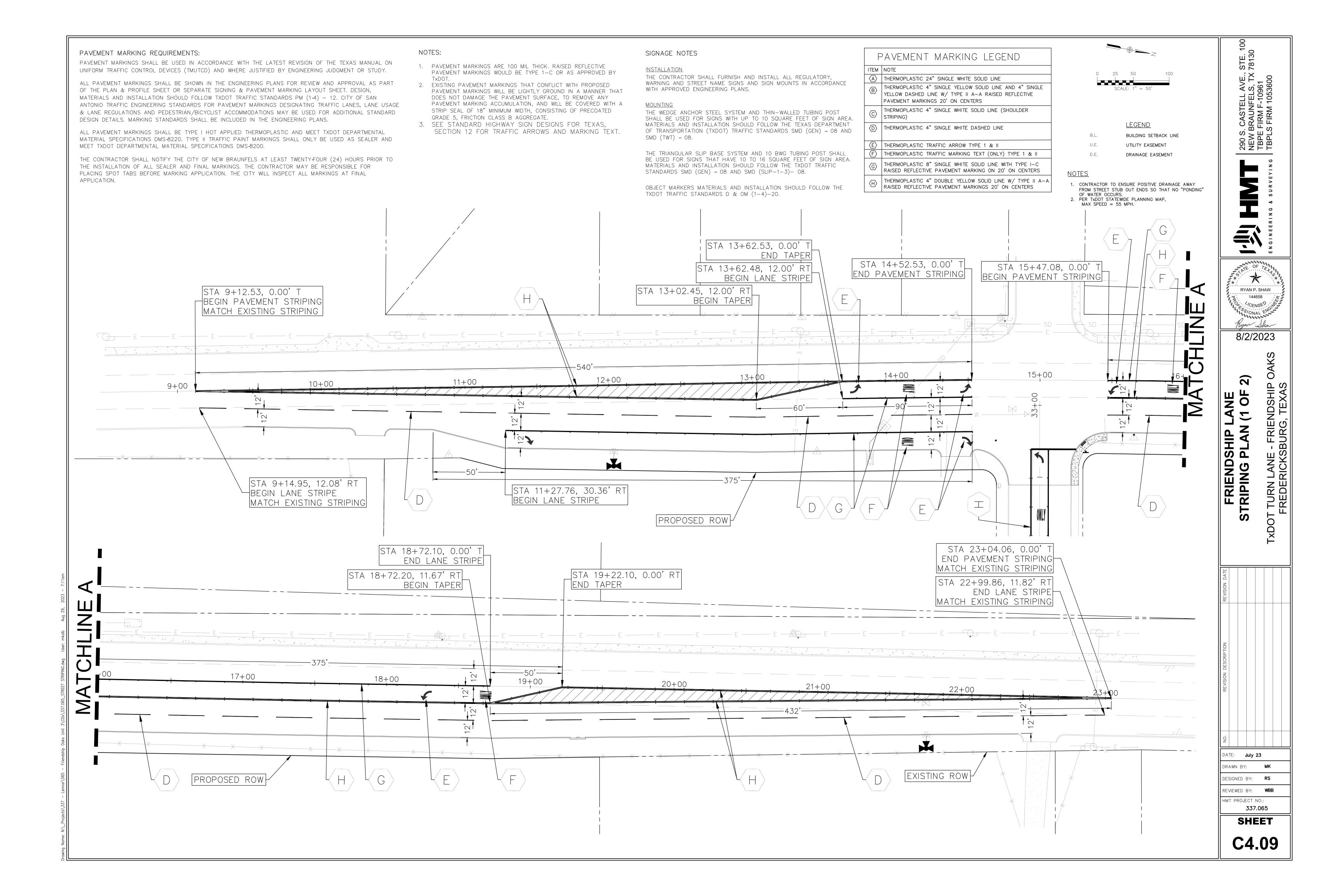
<u>POLE</u>

• 3' X 2' TELESPAR ANCHOR

• SQUARE CAP SIGN BRACKETS

STOP SIGN

GRADE)



PAVEMENT MARKING REQUIREMENTS:

PAVEMENT MARKINGS SHALL BE USED IN ACCORDANCE WITH THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND WHERE JUSTIFIED BY ENGINEERING JUDGMENT OR STUDY.

ALL PAVEMENT MARKINGS SHALL BE SHOWN IN THE ENGINEERING PLANS FOR REVIEW AND APPROVAL AS PART OF THE PLAN & PROFILE SHEET OR SEPARATE SIGNING & PAVEMENT MARKING LAYOUT SHEET, DESIGN, MATERIALS AND INSTALLATION SHOULD FOLLOW TXDOT TRAFFIC STANDARDS PM (1-4) - 12. CITY OF SAN ANTONIO TRAFFIC ENGINEERING STANDARDS FOR PAVEMENT MARKINGS DESIGNATING TRAFFIC LANES. LANE USAGE & LANE REGULATIONS AND PEDESTRIAN/BICYCLIST ACCOMMODATIONS MAY BE USED FOR ADDITIONAL STANDARD DESIGN DETAILS. MARKING STANDARDS SHALL BE INCLUDED IN THE ENGINEERING PLANS.

ALL PAVEMENT MARKINGS SHALL BE TYPE I HOT APPLIED THERMOPLASTIC AND MEET TXDOT DEPARTMENTAL MATERIAL SPECIFICATIONS DMS-8220. TYPE II TRAFFIC PAINT MARKINGS SHALL ONLY BE USED AS SEALER AND MEET TXDOT DEPARTMENTAL MATERIAL SPECIFICATIONS DMS-8200.

THE CONTRACTOR SHALL NOTIFY THE CITY OF NEW BRALINFELS AT LEAST TWENTY-FOLIR (24) HOURS PRIOR TO THE INSTALLATION OF ALL SEALER AND FINAL MARKINGS. THE CONTRACTOR MAY BE RESPONSIBLE FOR PLACING SPOT TABS BEFORE MARKING APPLICATION. THE CITY WILL INSPECT ALL MARKINGS AT FINAL

NOTES:

- PAVEMENT MARKINGS ARE 100 MIL THICK. RAISED REFLECTIVE
 PAVEMENT MARKINGS WOULD BE TYPE 1-C OR AS APPROVED BY
- 2. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS WILL BE LIGHTLY GROUND IN A MANNER THAT DOES NOT DAMAGE THE PAVEMENT SURFACE, TO REMOVE ANY PAVEMENT MARKING ACCUMULATION, AND WILL BE COVERED WITH A STRIP SEAL OF 18" MINIMUM WIDTH, CONSISTING OF PRECOATED GRADE 5, FRICTION CLASS B AGGREGATE.

 3. SEE STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS,
- SECTION 12 FOR TRAFFIC ARROWS AND MARKING TEXT.

SIGNAGE NOTES

INSTALLATION

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REGULATORY, WARNING AND STREET NAME SIGNS AND SIGN MOUNTS IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.

THE WEDGE ANCHOR STEEL SYSTEM AND THIN-WALLED TUBING POST SHALL BE USED FOR SIGNS WITH UP TO 10 SQUARE FEET OF SIGN AREA. MATERIALS AND INSTALLATION SHOULD FOLLOW THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) TRAFFIC STANDARDS SMD (GEN) – 08 AND

THE TRIANGULAR SLIP BASE SYSTEM AND 10 BWG TUBING POST SHALL BE USED FOR SIGNS THAT HAVE 10 TO 16 SQUARE FEET OF SIGN AREA. MATERIALS AND INSTALLATION SHOULD FOLLOW THE TXDOT TRAFFIC STANDARDS SMD (GEN) - 08 AND SMD (SLIP-1-3)- 08.

OBJECT MARKERS MATERIALS AND INSTALLATION SHOULD FOLLOW THE TXDOT TRAFFIC STANDARDS D & OM (1-4)-20.

PAVEMENT MARKING LEGEND

ITEM NOTE

(A) THERMOPLASTIC 24" SINGLE WHITE SOLID LINE

THERMOPLASTIC 4" SINGLE YELLOW SOLID LINE AND 4" SINGLE YELLOW DASHED LINE W/ TYPE II A-A RAISED REFLECTIVE PAVEMENT MARKINGS 20' ON CENTERS

THERMOPLASTIC 4" SINGLE WHITE SOLID LINE (SHOULDER ©

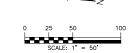
THERMOPLASTIC 4" SINGLE WHITE DASHED LINE

(E) THERMOPLASTIC TRAFFIC ARROW TYPE 1 & II

(F) THERMOPLASTIC TRAFFIC MARKING TEXT (ONLY) TYPE 1 & II

THERMOPLASTIC 8" SINGLE WHITE SOLID LINE WITH TYPE I-C RAISED REFLECTIVE PAVEMENT MARKING ON 20' ON CENTERS **©**

HERMOPLASTIC 4" DOUBLE YELLOW SOLID LINE W/ TYPE II A-/
RAISED REFLECTIVE PAVEMENT MARKINGS 20' ON CENTERS



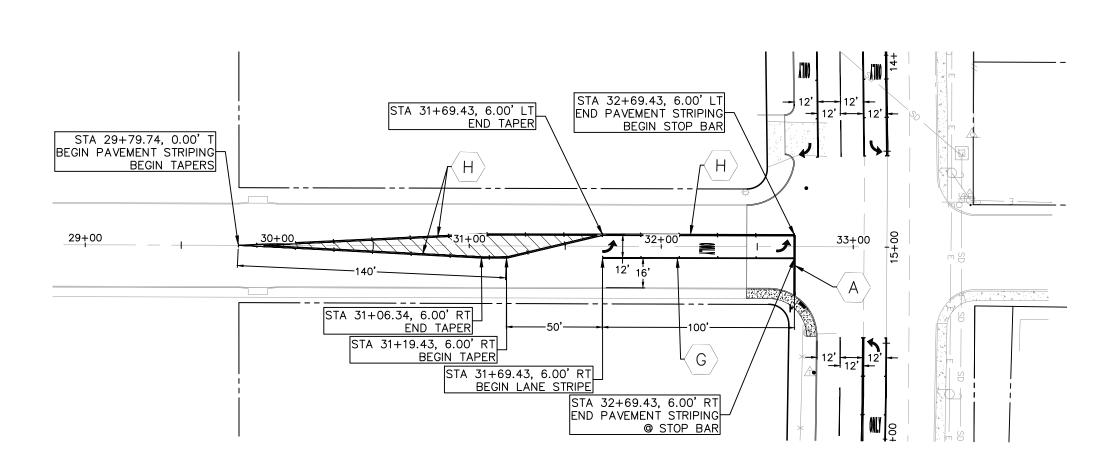
<u>LEGEND</u>

BUILDING SETBACK LINE

U.E. UTILITY EASEMENT D.E. DRAINAGE EASEMENT

NOTES

CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING" OF WATER OCCURS.
 PER TADOT STATEMBLE PLANNING MAP, MAX SPEED = 55 MPH.



STE. 1 78130

290 S. CASTELL AVE., S NEW BRAUNFELS, TX 71 TBPE FIRM F-10961 TBPLS FIRM 1053600

<u>►</u> Z T



8/2/2023

OAKS 7 TXDOT TURN LANE - FRIENDSHIP FREDERICKSBURG, TEXAS FRIENDSHIP LANE STRIPING PLAN (2 OF

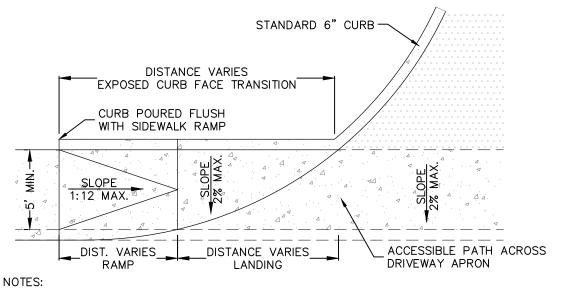
DATE: July 23

DRAWN BY: SIGNED BY:

VIEWED BY: WBB T PROJECT NO. 337.065

SHEET

C4.10



- 1. REFER TO THE SITE PLAN & GRADING PLAN SHEETS FOR LAYOUT INFORMATION AND 2. ALL RAMPS SHALL BE TAS/ADA COMPLIANT FOR NEW SIDEWALK IMPROVEMENTS.
- 3. ALL RAMPS WHICH CROSS DRIVEWAYS SHALL BE BROOM FINISH. 4. CONCRETE SHALL MEET CITY OF SAN ANTONIO REQUIREMENTS FOR TYPICAL COMMERCIAL DRIVEWAY APRONS AND SIDEWALKS FOR ALL WORK WITHIN PUBLIC
- 5. SIDEWALKS SHALL BE A MINIMUM WIDTH OF 6' WHEN THEY ABUT A CURB.

CURB RETURN WITH SIDEWALK

THOUT PEDESTRIAN

TYPE 7

TYPE 10

(SIDEWALK ADJACENT

TYPE 21

TYPE 22

(SIDEWALK SET BACK FROM CURE

PARALLEL CURB RAMP

DIRECTIONAL RAMPS WITHIN RADIUS

BOTTOM GRADE BREAK OF CURB RAMP

WILL NORMALLY BE AT GUTTER LINE. SURFACE SLOPES AT GRADE BREAKS

5% MAX.

CONTINUOUS CURB-

BEYOND

TYPICAL SECTION OF PERPENDICULAR

CURB RAMP AT CONNECTION TO ROADWAY

RAMP SLOPE

ON ANY PORTION OF RAMP, TURNING SPACE OR TRANSITION TO STREET.

NOTES / LEGEND:

DENOTES PLANTING OR

CIRCULATION PATH.

IF APPLICABLE.

NON-WALKING SURFACE VVV
NOT PART OF PEDESTRIAN VVV

DETECTABLE WARNING SURFACE

OF PEDESTRIAN PUSH BUTTON

SEE GENERAL NOTES ON SHEET 2 OF 4 FOR MORE INFORMATION.

GUTTER LINE - -

RAMP LIMITS OF PAYMENT

PERPENDICULAR CURB RAMP

CURB RAMPS AT MEDIAN ISLANDS

8.3% MAX.

COMBINATION ISLAND RAMPS

IGN CURB PAR

NOTE: CURB DETAILS ARE SHOW ELSEWHERE IN THE PLAN

FOR CLEAR SI

TYPE 3

5'MIN. 6'DESIRABLE

5' PREFERRED

COMBINATION CURB RAMPS

BLENDED TRANSITION

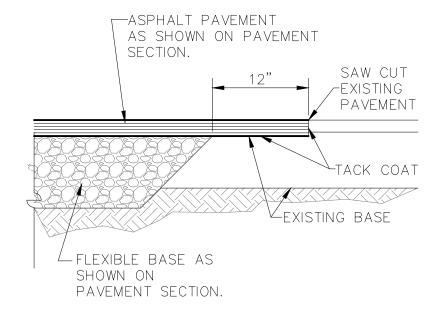
(FLUSH LANDING)

SHEET 1 OF 4

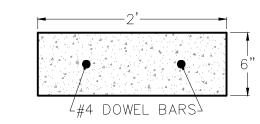
PEDESTRIAN FACILITIES

CURB RAMPS

TYPE 6

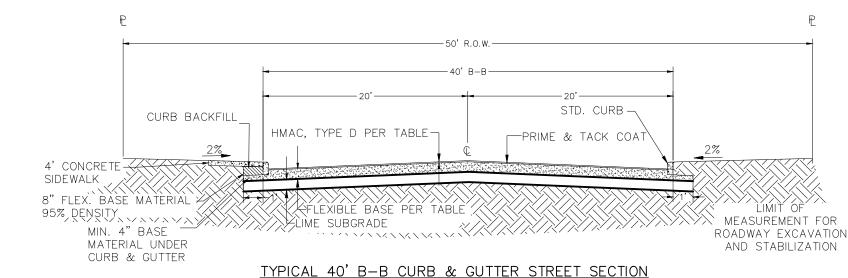


NEW PAVEMENT TO EXISTING



- 1. MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CITY OF NEW BRAUNFELS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 2. DOWEL BARS IF REQUIRED SHALL BE PLACED AS SHOWN.
- 3. EXPANSION JOINTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 40

RIBBON/HEADER CURB DETAIL NOT TO SCALE



ASPHALTIC CONCRETE PAVEMENT N.T.S.

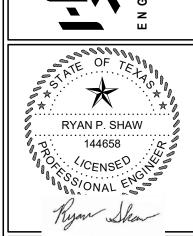
FLEXIBLE PAVEMENTS RESIDENTIAL COLLE						
PAVEMENT MATERIAL						
PE "D" OR TYPE "C" HMAC	2.0"					
JSHED LIMESTONE FLEXIBLE BASE, IN.	6.0"					
ISAR TRIAX TX5 GEOGRID	YES					
STURE CONDITIONED SUBGRADE	YES					

NOTE:

- 1. ALL PAVEMENT CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE TO THE "PRELIMINARY FOUNDATION AND PAVEMENT DESIGN REPORT. FRIENDSHIP OAKS SUBDIVISION, FRIENDSHIP LANE AND SOUTH CREEK STREET, FREDERICKSBURG, GILLESPIE COUNTY, TEXAS, TTL PROJECT NO. 00310900833.00", BY TTL, INC, DATED APRIL 16, 2021
- 2. ALL PAVEMENT SECTIONS SHOWN ON THE ABOVE TABLE SHALL SUPERCEDE ANY STANDARD DETAILS WITH RESPECT TO DEPTH OF
- MATERIALS ASSOCIATED WITH THIS PROJECT. 3. THE SUBGRADE SHOULD BE STABILIZED USING LIME IN ACCORDANCE WITH THE GEOTECHNICAL REPORT IN ORDER TO ACHIEVE THE FOLLOWING:
- 3.1. PLASTICITY INDEX, REFER TO SECTION 4.2 COMPACTED FILL MATERIALS
- 4. THE SUBGRADE SOILS SHOULD BE TESTED FOR SOLUBLE SULPHATE CONTENT PRIOR TO INSTALLATION OF THE LIME OR CEMENT.
- 5. REFERENCE GEOTECHNICAL REPORT FOR LIME STABILIZATION NOTES 6. CONTRACTOR SHALL BE RESPOSIBLE TO ATTAIN A COPY OF THE GEOTECH REPORT AND THE CONTENTS OF THE REPORT.

TYPICAL PAVEMENT SECTION

DETECTABLE WARNING SURFACE DETAILS GENERAL NOTES DETECTABLE WARNING PAVERS (IF USED) . Install a curb ramp or blended transition at each pedestrian street crossing. 25. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. 2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running 26. Lay full-size units first followed by closure units consisting of at least 25 percent (25%) of a full unit. Cut detectable warning paver units using a power saw. should be used. Adjust curb ramp length or grade of approach sidewalks as directed. . Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%. . The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb. a 6' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 27. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within unobstructed reach range specified in PROWAG section R406. 5'x 5' passing areas at intervals not to exceed 200' are required. 5. Turning Spaces shall be 5'x 5' minimum. Cross slope shall be maximum 2%. 28. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE. 6. Clear space at the bottom of curb ramps shall be a minimum of 4'x 4' wholly contained . Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. 29. Street grades and cross slopes shall be as shown elsewhere in the plans. 30. Changes in level greater than 1/4 inch are not permitted. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, 31. The least possible grade should be used to maximize accessibility. The running slope or otherwise protected. of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than five percent (5%) must be 3. Additional information on curb ramp location, design, light reflective value and texture may be found in the latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with PROWAG R409. U.S. Architectural and Transportation Barriers Compliance Board (Access Board) 32. Handrail extensions shall not protrude into the usable landing area or into intersecting). To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them. 33. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for Small channelization islands, which do not provide a minimum $5' \times 5'$ landing at the top of curb ramps, shall be cut through level with the surface of the street. in accordance with Item. "Sidewalks". . Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown 34. Sidewalk details are shown elsewhere in the plans. elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed. . Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Handrails are not required on curb ramps. 13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless 15. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed. DETECTABLE WARNING PAVER PREFABRICATED DETECTABLE WITH TRUNCATED DOMES WARNING PANEL 6. Provide a smooth transition where the curb ramps connect to the street. 7. Curbs shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter. 3. Existing features that comply with applicable standards may remain in place unless otherwise shown on the plans. (MIN.) 5" DEPTH EXCLUSIVE OF DETECTABLE WARNING DETECTABLE WARNING MATERIAL NO.3 REBAR AT 18" (MAX) ON-CENTER-BOTH WAYS OR AS DIRECTED Curb ramps must contain a detectable warning surface that consists of raised truncated dames complying with PROWAG. The surface must contrast visually with TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN. adjoining surfaces, including side flores. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans. SECTION VIEW DETAIL O. Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS 4350 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications. CURB RAMP AT DETECTIBLE WARNINGS . Detectable warning surfaces must be firm, stable and slip resistant. 22. Detectable warning surfaces shall be a minimum of 24 inches in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street. 23. Detectable warning surfaces shall be located so that the edge negrest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the back of curb. Detectable warning surfaces may be curved along the corner radius. 4. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.



8/28/2023

3

OF

DETECTABLE WARNING SURFACE

DETECTABLE WARNING SURFACE

-DETECTABLE WARNING

SHEET 2 OF 4

PEDESTRIAN FACILITIES

CURB RAMPS

PEDESTRIAN TRAVEL

SPACE

PARALLEL CURB RAMP

PEDESTRIAN TRAVEL DIRECTION

SPACE

PERPENDICULAR CURB RAMP

PEDESTRIAN TRAVEL DIRECTION

TURNING

SPACE

DIRECTIONAL CURB RAMP

August 2023 RAWN BY: ESIGNED BY: RS REVIEWED BY: WBB HMT PROJECT NO .:

337.065

100 WATT 250 WATT

9,500 LUMEN 25,500 LUMEN

URD POLE:

Valmont 30' total steel pole with simplex fitting; EM50-730A300-05-HH-GAL.

6° X 2" steel arm with one bolt simplex attachment: 70820-Y17G.

#10 solid copper white and black.

#6-2 URD wire duplex (Clafin-Southwire).

Fuse kit (KTK 15 or 30 AMP midget fuse, HEB-CC fuse holder, IA0512 rubber boots.

2" duct cone.

OVERHEAD:

8' aluminum arm X 11/4"; A-125-8-UB aluminum Mastarm.

14' steel arm X 11/4"; D125S140.

#10 solid copper white and black.

ROADWAY LIGHTING:

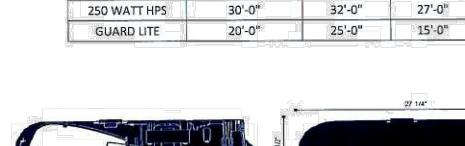
Residential Intersections: Cooper 100HPS OVZ10SR22DF4 (Flat Glass) or equivalent.

State Highway Intersections:

Cooper 250HPS OVZ25SWW2D4F (Flat Glass) or equivalent.

Residential Area Lighting: Cooper 100HPS OVZ10SR22DU1431 (Flat Glass) or equivalent. **GROUND DETAIL** SEE GROUND DETAIL





MOUNTING HEIGHTS FOR MAST ARMS TO

THRU BOLT

HEIGHT ABOVE STREET

APPROXIMATE MAXIMUM MINIMUM

29'-0"

8' ARM, 1 - 1/4" PIPE -

LUMINAIRE

100 WATT HPS

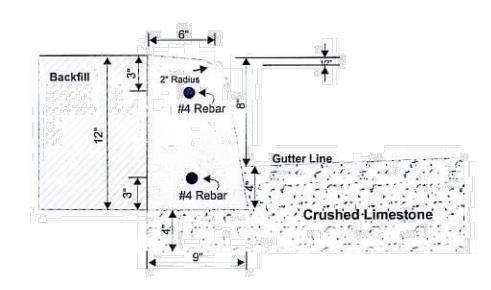
FOR WOOD POLE___B

LAMP ASSEMBLY SHOWING

14" ARM, 1 - 1/4" PIPE -

FOR WOOD POLE ___D

Typical Machine Laid Stand-Up Curb

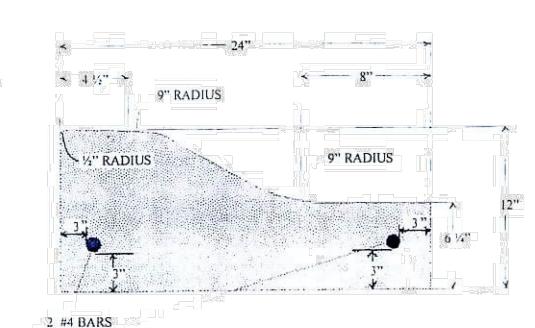


Construction Notes:

- 1. Concrete 3,000 P.S.I. (5 sack)
- 2. Dummy Joints Dummy joints shall be tooled into curb at 10 ft. intervals using a grooving tool to a minimum depth of 1/2". Saw cutting dummy joints is not permitted.
- 3. Expansion Joints Place asphalt impregnated fiber board approved by the City at all cold joints. Place 2 #4 Smooth bars, 18" long, 3" from the top and 3" from the bottom of curb.
- 4. Top of curb to have 1/2" drop from back to front of curb.
- 5. Curbs must be brushed to a smooth and uniform finish.

INSPECTION IS REQUIRED BEFORE PLACEMENT OF CONCRETE!!

Typical Machine Laid Rollover Curb



Construction Notes:

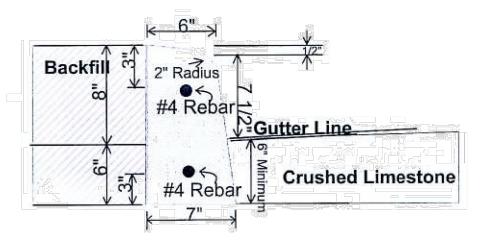
1. Concrete - 3,000 P.S.I. (5 sack)

CONTINUOUS

- 2. Dummy Joints Dummy joints shall be tooled into curb at 10 ft. intervals using a grooving tool to a minimum depth of 1/2". Saw cutting dummy joints is not permitted.
- Expansion Joints Place asphalt impregnated fiber board approved by the City at all cold joints. Place 2 #4 Smooth bars, 18" long, 3" from the bottom of curb at locations shown in the sketch above.
- 4. Curbs must be brushed to a smooth and uniform finish.

INSPECTION IS REQUIRED BEFORE PLACEMENT OF CONCRETE!!

Hand Formed Stand-Up Curb



Construction Notes:

- 1. Concrete 3,000 P.S.I. (5 sack)
- 2. Dummy Joints Dummy joints shall be tooled into curb at 10 ft. intervals using a grooving tool to a minimum depth of 1/2". Saw cutting dummy joints is not permitted.
- Expansion Joints Place asphalt impregnated fiber board approved by the City at all cold joints. Place 2 #4 Smooth bars, 18" long, 3" from the top and bottom of curb.
- 4. Top of curb to have 1/2" drop from back to front of curb.
- 5. Front face of curb to be fully formed from top of curb to 6" below the street gutter elevation. Back of curb to be formed a minimum of 6" down from top of curb.
- 6. Forms must be removed the same day the curb is poured and curbs must be plastered with mortar or brushed to a smooth and uniform finish.
- 7. Curb radii at street corners shall be 2 1/2 ft. on back of curb or as specified by the City Engineering Department.

INSPECTION IS REQUIRED BEFORE PLACEMENT OF CONCRETE!!

Driveway Ramp 2 1/2' Radius or as per Engineering Expansion Joint 4' or as per Engineering Department **Construction Notes:**

- 1. Concrete 3,000 P.S.I. (5 sack).
- 2. Driveway construction shall meet street pavement 1/2" above established gutter elevation.
- 3 Face of driveway apron must be formed a minimum of 3 1/2" below the street gutter line. CAUTION: The City does NOT guarantee vehicle clearances on driveway constuction. This is the responsibility of the contractor.
- 4. Where curbs are cut for driveway placement, cuts shall be vertical and neat.
- 5. A minimum of 1' of reinforcing steel must be remaining in existing curb to be tied to steel in drive or dowels must
- 6. When breaking out curbs, the entire curb must be removed and a thickened section poured in drive to bottom of curb.
- 7. Expansion joints shall be provided where curb returns meet curb lines.

INSPECTION IS REQUIRED BEFORE PLACEMENT OF CONCRETE!

August 2023 DRAWN BY: DESIGNED BY: RS REVIEWED BY: HMT PROJECT NO .:

RYAN P. SHAW

8/28/2023

3

OF

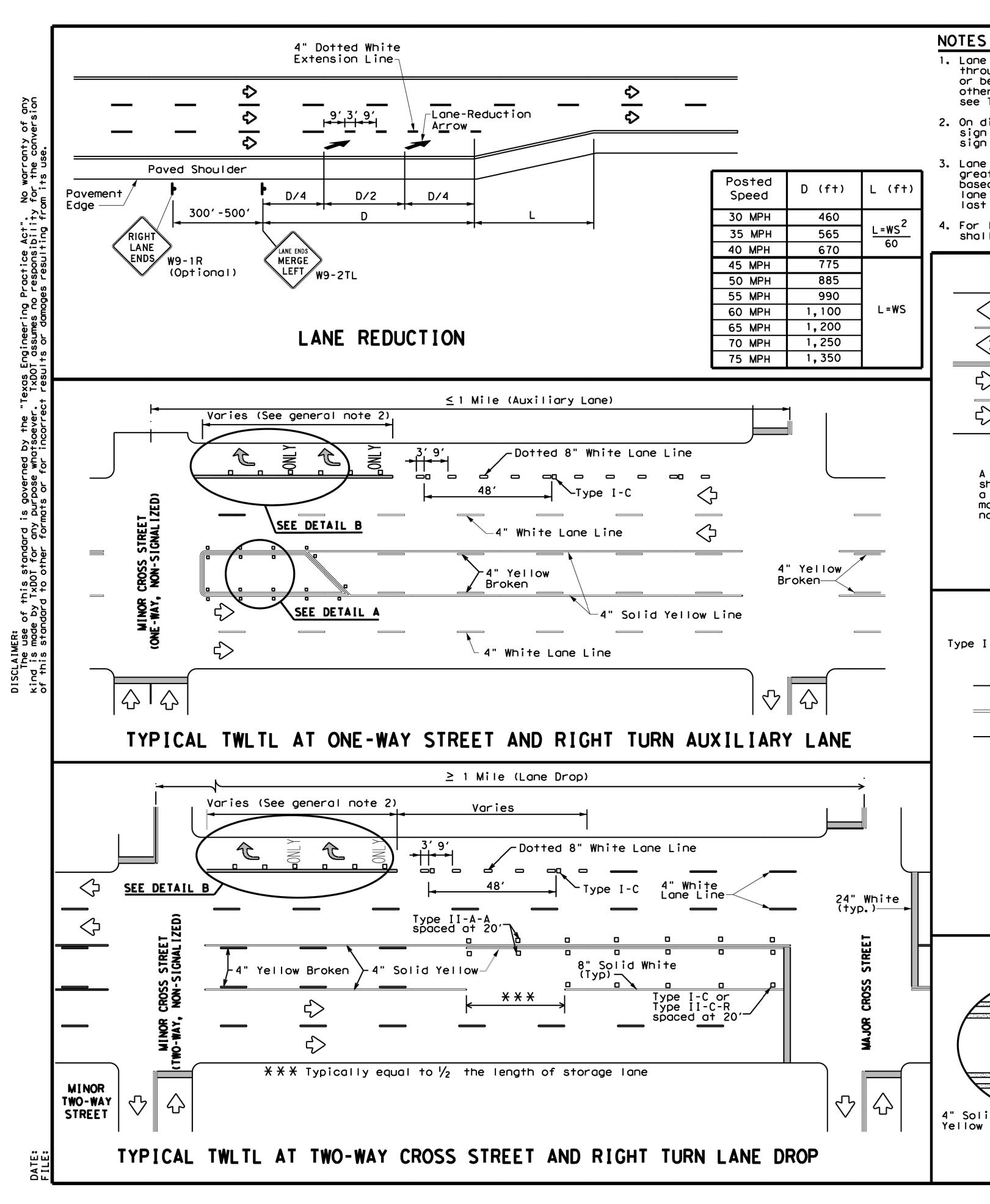
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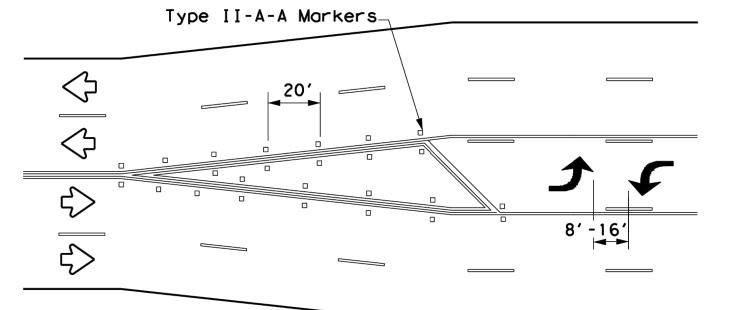
SHEET

337.065

C4.12



- 1. Lane reduction pavement markings are used where the number of through lanes is reduced because of narrowing of the roadway or because of a section of on-street parking in what would otherwise be a through lane. For Texas Super 2 Passing Lanes, see TS2(PL) standard sheets.
- 2. On divided highways, an additional W9-1R "RIGHT LANE ENDS" sign may be installed in the median aligned with the W9-1R sign on the right side of the highway.
- 3. Lane reduction arrows are required for speeds of 45 mph or greater. An optional third lane reduction arrow may be added based on engineering judgement. If used, the optional third lane reduction arrow should be centered between the first and last lane reduction arrows.
- For lane reductions on Freeways and Expressways, signing shall conform to the TxDOT Freeway Signing Handbook.



A two-way left-turn (TWLT) lane-use arrow pavement marking should be used at or just downstream from the beginning of a two-way left-turn lane within a corridor. Repeating the marking after each intersection or dedicated turn bay is not required unless stated elsewhere in the plans.

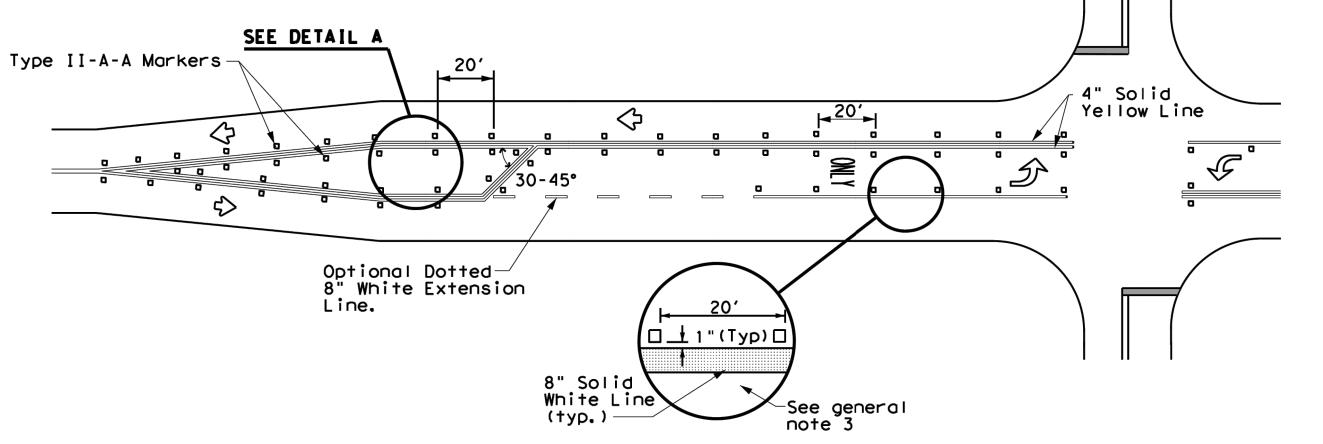
TYPICAL TRANSITION FOR TWLTL AND DIVIDED HIGHWAY

GENERAL NOTES

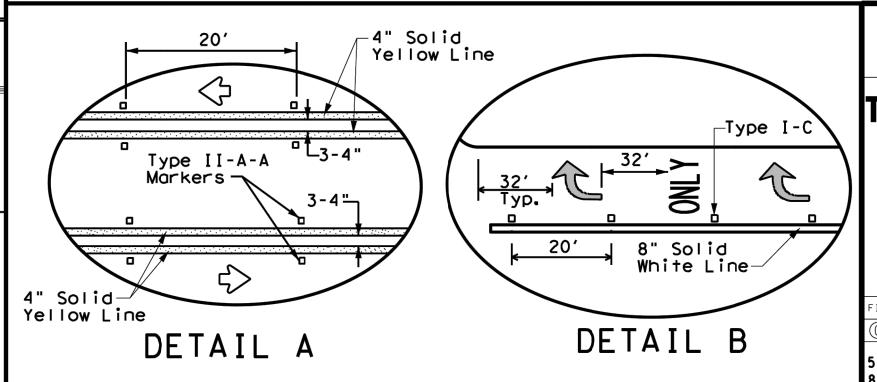
- 1. Lane use word and arrow markings shall be used where through lanes approaching an intersection become mandatory turn lanes. Lane use word and arrow markings should be used in auxiliary lanes of substantial length. Lane use arrow markings or word and arrow markings may be used in other lanes and turn bays for emphasis. Details for words and arrows are as shown in the Standard Highway Sign Designs for Texas.
- When lane-use words and arrow markings are used, two sets of arrows should be used if the length of the bay is greater than 180 feet. When a single lane use arrow or word and arrow marking is used for a short turn lane, it should be located at or near the upstream end of the full-width turn lane.
- Use raised pavement marker Type I-C with undivided highways, flush medians and two way left turn lanes. Use raised pavement marker Type II-C-R with divided highways and raised medians.
- 4. Length of turn bays, including taper, deceleration, and storage lengths shall be as shown on the plans or as directed by the Engineer.

MATERIAL SPECIFICATIONS						
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200					
EPOXY AND ADHESIVES	DMS-6100					
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130					
TRAFFIC PAINT	DMS-8200					
HOT APPLIED THERMOPLASTIC	DMS-8220					
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240					

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



TYPICAL TWO-LANE HIGHWAY INTERSECTION WITH LEFT TURN BAYS





TWO-WAY LEFT TURN LANES, RURAL LEFT TURN BAYS, AND LANE REDUCTION PAVEMENT MARKINGS PM(3) - 20

FILE: pm3-20.dgn	DN:		CK:	DW:		CK:
©TxDOT April 1998	CONT	SECT	JOB		ніс	HWAY
5-00 2-10 REVISIONS						
8-00 2-12	DIST	COUNTY			SHEET NO.	
3-03 6-20						

337.065 **SHEET**

DESIGNED BY: RS

EVIEWED BY: HMT PROJECT NO.:

August 2023

C4.13

STE. 100 78130 290 S. CASTELL / NEW BRAUNFELS TBPE FIRM F-109 TBPLS FIRM 1053



8/28/2023

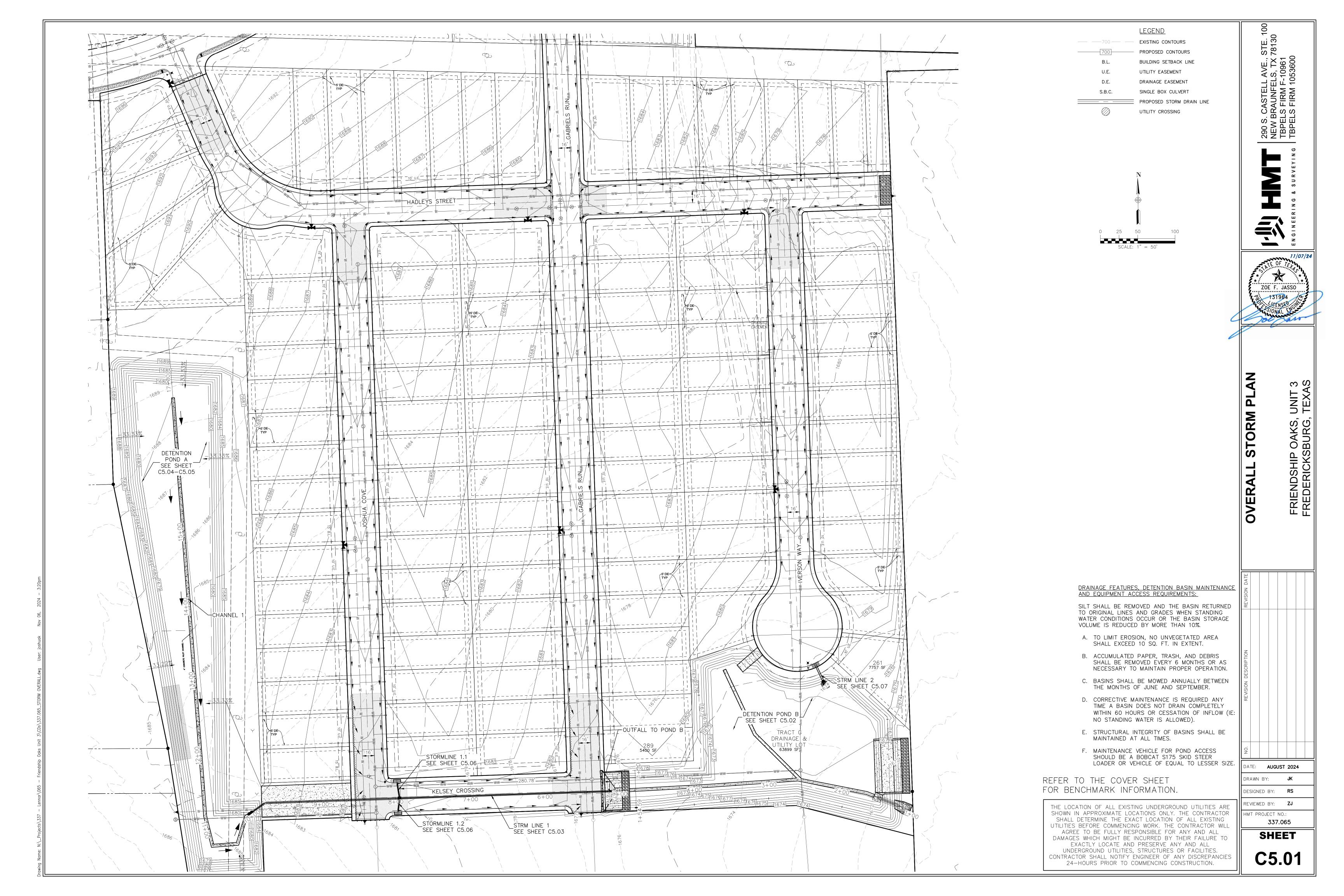
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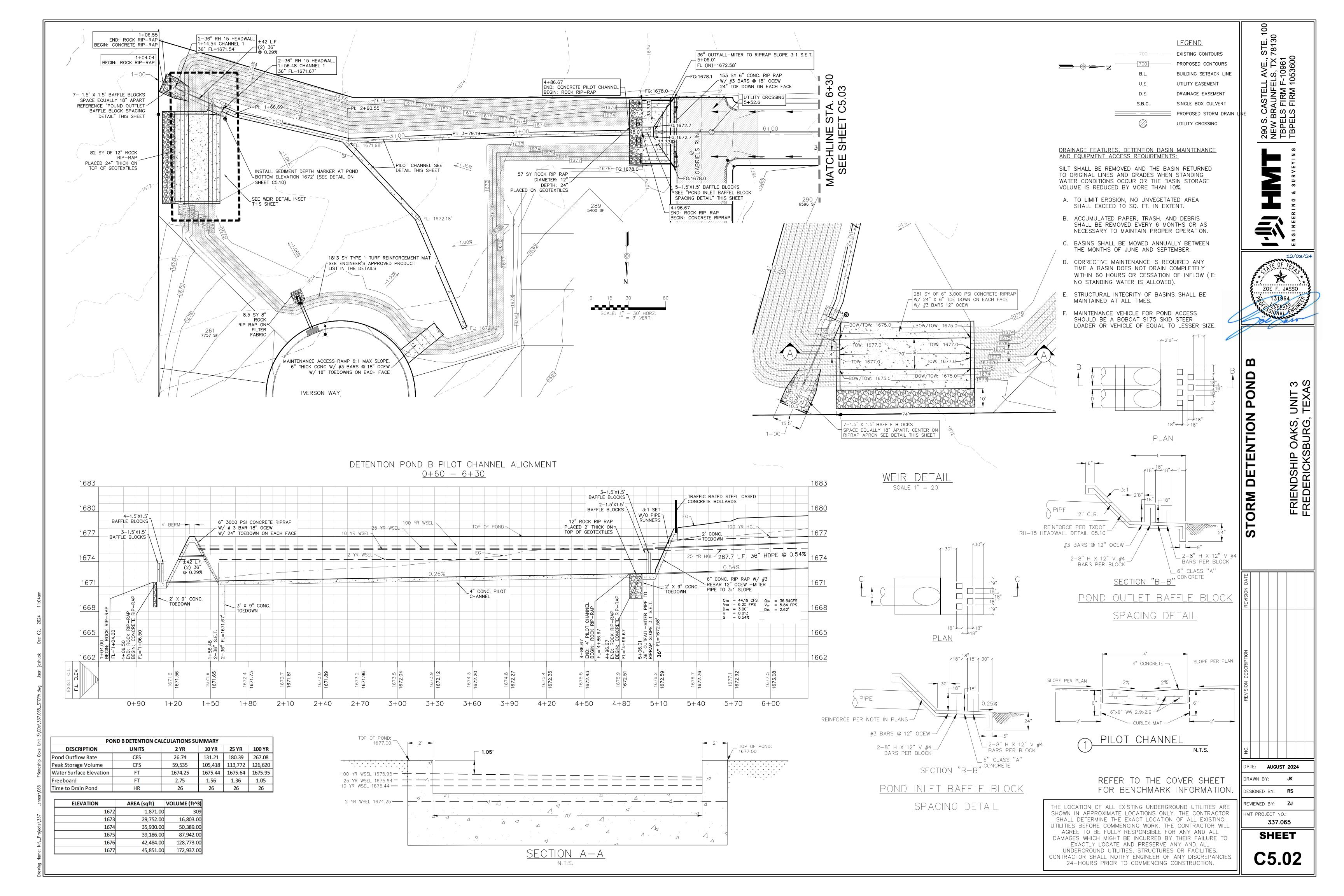
OF

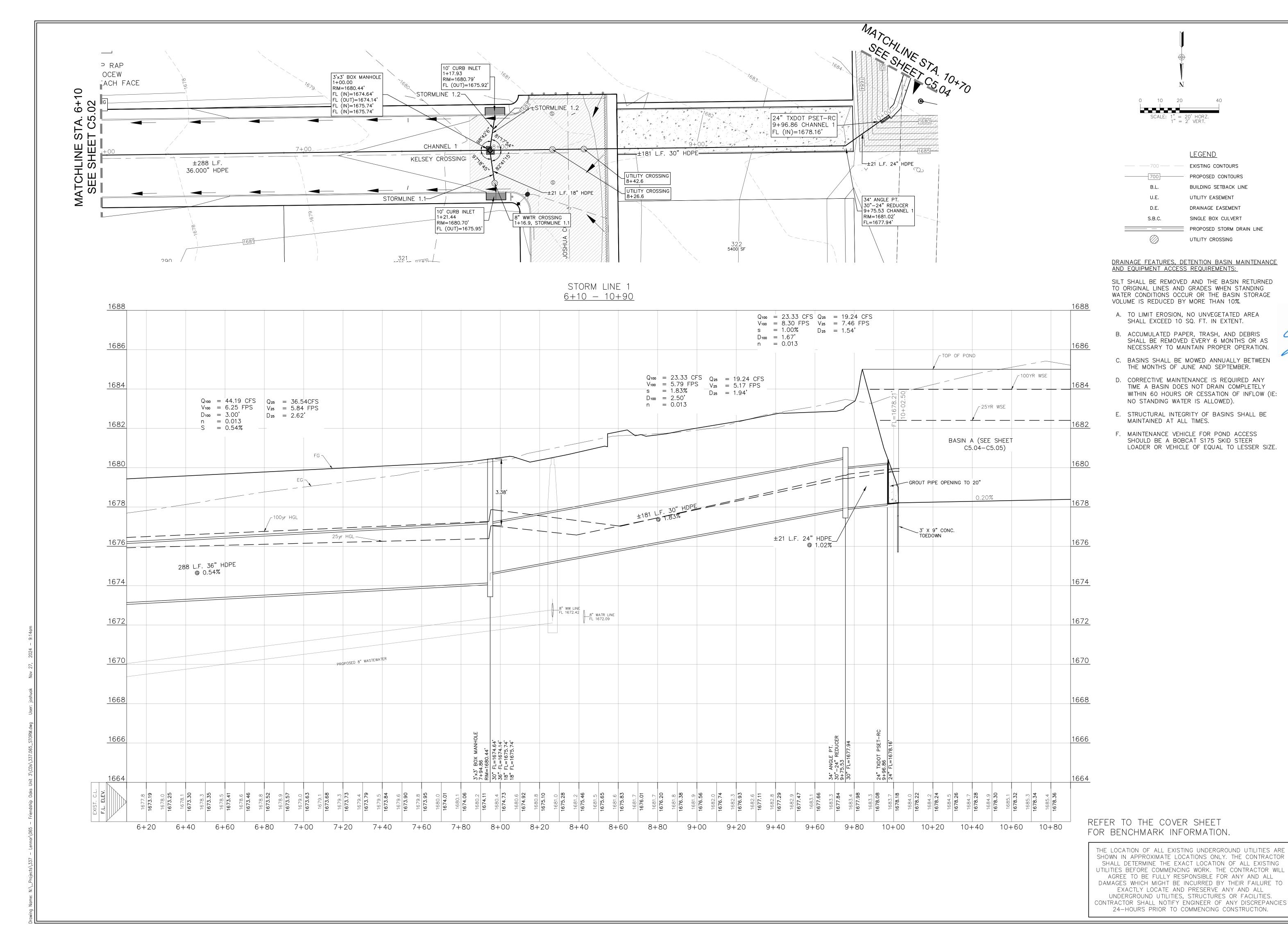
3

STREET

UNIT 3 TEXAS FRIENDSHIP OAKS, FREDERICKSBURG,







290 S. CASTELI NEW BRAUNFE TBPELS FIRM F TBPELS FIRM 1

12/03/24 ZOE F. JASSO

UNIT 3 TEXAS

CHANNEI & PROFILI STORM PLAN 8

DATE: AUGUST 2024

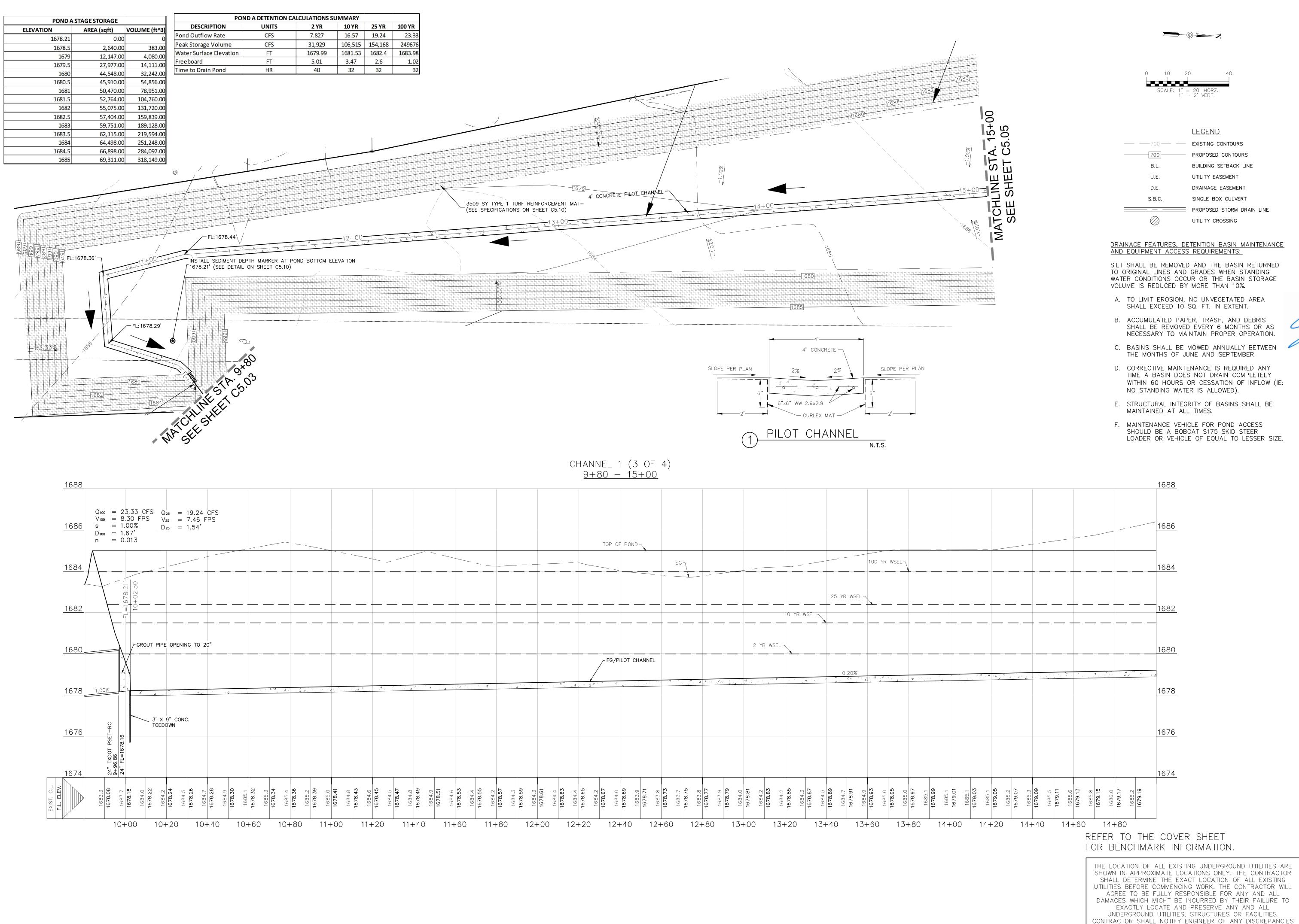
DRAWN BY:

DESIGNED BY: RS

EVIEWED BY: **ZJ** HMT PROJECT NO.: 337.065

SHEET

C5.03



12/03/24 ZOE F. JASSO

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STORM

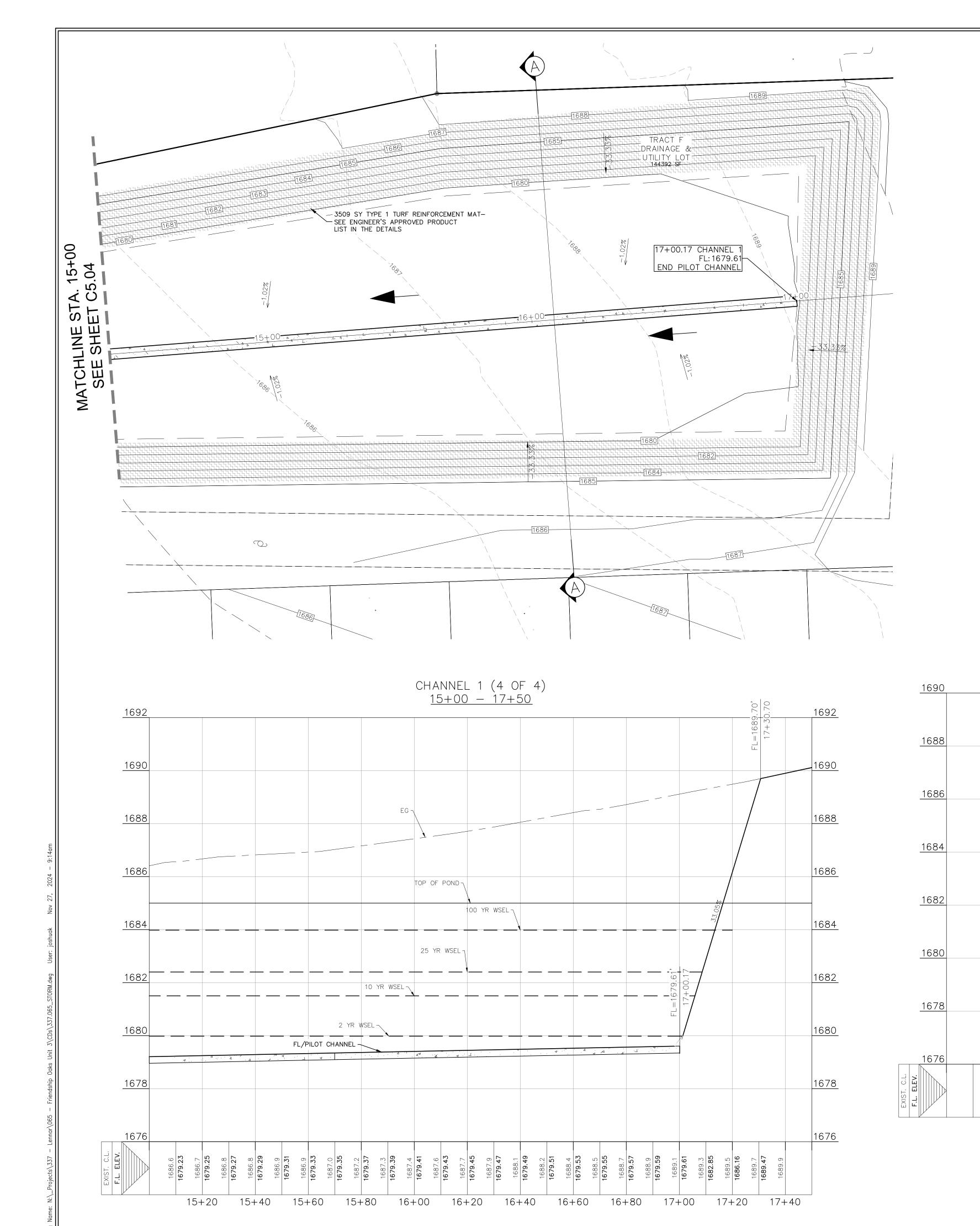
DATE: AUGUST 2024

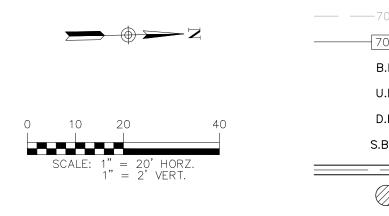
DRAWN BY: DESIGNED BY: RS

EVIEWED BY: **ZJ** HMT PROJECT NO.:

337.065

24-HOURS PRIOR TO COMMENCING CONSTRUCTION.





4" CONCRETE -

PILOT CHANNEL

CFS

CFS

HR

1678.21

1679.5

1680.5

1681.5

1682.5

1683.5

1681

1682

1683

1684

1684.5 1685

1680

ELEVATION

POND A STAGE STORAGE

POND A DETENTION CALCULATIONS SUMMARY

7.827

31,929

1679.99

5.01

40

AREA (sqft) VOLUME (ft^3

0.00 2,640.00 12,147.00

27,977.00

44,548.00

45,910.00

50,470.00

52,764.00

62,115.00

SECTION A-A

<u>0+80 - 3+00</u>

55,075.00 131,720.00

57,404.00 159,839.0

59,751.00 189,128.00

64,498.00 251,248.0

66,898.00 284,097.0

69,311.00 318,149.00

SLOPE PER PLAN

10 YR 25 YR 100 YR

16.57 19.24 23.33

1681.53 | 1682.4 | 1683.98

2.6

106,515 | 154,168 | 249676

N.T.S.

3.47

32

4,080.0

14,111.

32,242.00

54,856.0

78,951.0

104,760.00

219,594.0

100 YR WSEL~

25 YR WSEL ~

PILOT CHANNEL

2+20

2 + 40

1688.3 1680.08 1688.4 1683.41 1688.5 1688.5 1688.5 1688.5

2+60

10 YR WSEL —

2 YR WSEL~

1+80

2+00

1687.4 1679.82

1+60

1 + 40

1 + 20

1 + 00

SLOPE PER PLAN

DESCRIPTION

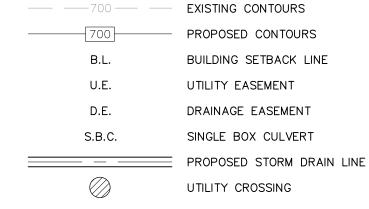
Pond Outflow Rate

Freeboard

Peak Storage Volume

Time to Drain Pond

Water Surface Elevation



DRAINAGE FEATURES, DETENTION BASIN MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS:

SILT SHALL BE REMOVED AND THE BASIN RETURNED TO ORIGINAL LINES AND GRADES WHEN STANDING WATER CONDITIONS OCCUR OR THE BASIN STORAGE VOLUME IS REDUCED BY MORE THAN 10%.

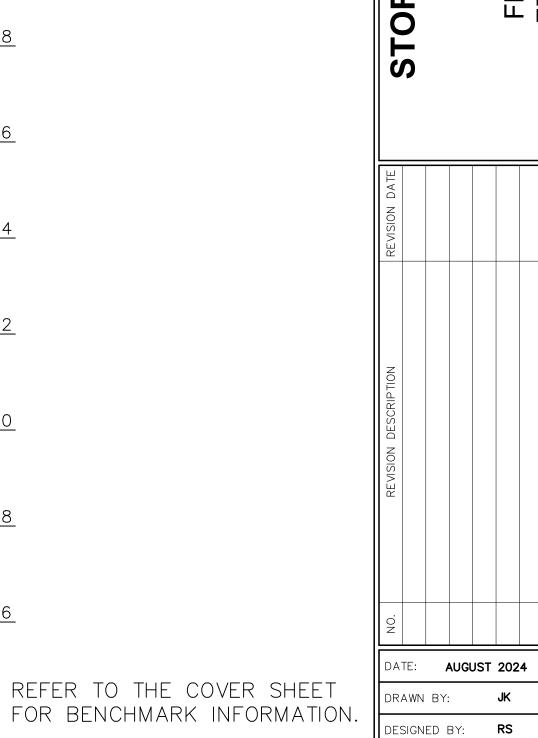
- SHALL EXCEED 10 SQ. FT. IN EXTENT.
- SHALL BE REMOVED EVERY 6 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.
- C. BASINS SHALL BE MOWED ANNUALLY BETWEEN THE MONTHS OF JUNE AND SEPTEMBER.
- D. CORRECTIVE MAINTENANCE IS REQUIRED ANY TIME A BASIN DOES NOT DRAIN COMPLETELY WITHIN 60 HOURS OR CESSATION OF INFLOW (IE: NO STANDING WATER IS ALLOWED).
- E. STRUCTURAL INTEGRITY OF BASINS SHALL BE MAINTAINED AT ALL TIMES.
- F. MAINTENANCE VEHICLE FOR POND ACCESS SHOULD BE A BOBCAT S175 SKID STEER LOADER OR VEHICLE OF EQUAL TO LESSER SIZE.

A. TO LIMIT EROSION, NO UNVEGETATED AREA

- B. ACCUMULATED PAPER, TRASH, AND DEBRIS

FINTION STORM DET

NO



12/03/24

ZOE F. JASSO

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES

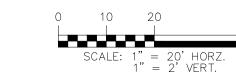
24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

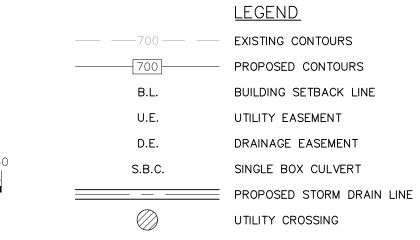
337.065 SHEET

REVIEWED BY: ZJ

HMT PROJECT NO.:







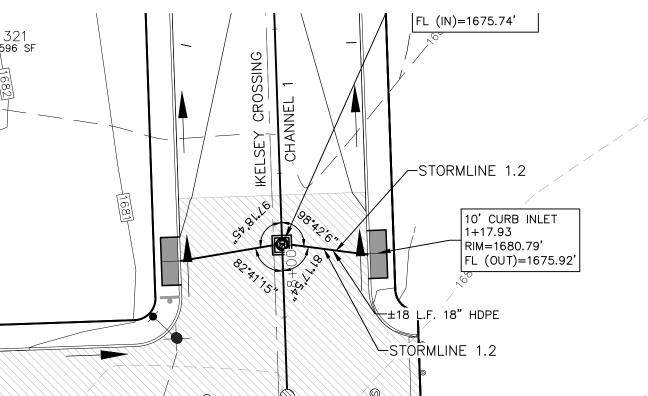
DRAINAGE FEATURES, DETENTION BASIN MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS:

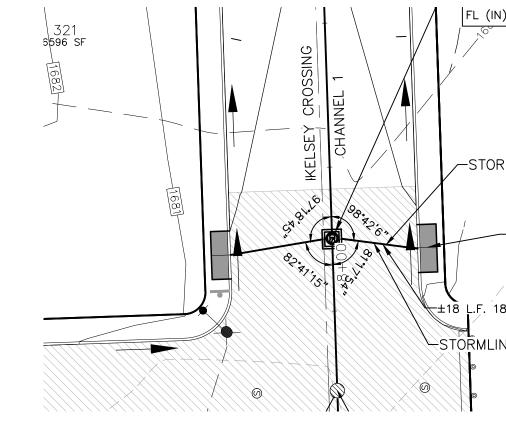
SILT SHALL BE REMOVED AND THE BASIN RETURNED TO ORIGINAL LINES AND GRADES WHEN STANDING WATER CONDITIONS OCCUR OR THE BASIN STORAGE VOLUME IS REDUCED BY MORE THAN 10%.

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- SHALL EXCEED 10 SQ. FT. IN EXTENT. B. ACCUMULATED PAPER, TRASH, AND DEBRIS SHALL BE REMOVED EVERY 6 MONTHS OR AS
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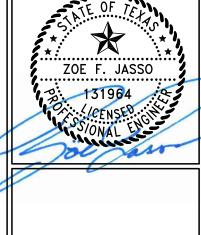
NECESSARY TO MAINTAIN PROPER OPERATION.

- E. STRUCTURAL INTEGRITY OF BASINS SHALL BE MAINTAINED AT ALL TIMES.
- F. MAINTENANCE VEHICLE FOR POND ACCESS SHOULD BE A BOBCAT S175 SKID STEER LOADER OR VEHICLE OF EQUAL TO LESSER SIZE.





STORMLINE 1.2 0+80 - 1+401678 1676 1674 1672 1680.3 1675.74 1680.4 1675.84



11/07/24

STE. 100 78130

290 S. CASTELL /
NEW BRAUNFELS
TBPELS FIRM F-1
TBPELS FIRM 108

PROFILI STORM CH,

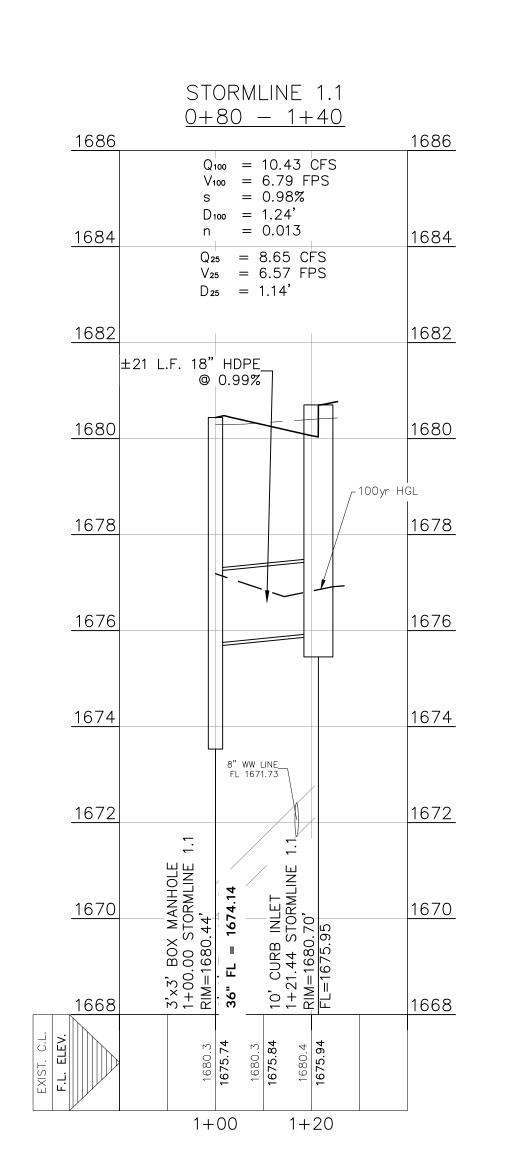
DATE: AUGUST 2024

DRAWN BY: DESIGNED BY: RS

> EVIEWED BY: **ZJ** HMT PROJECT NO.: 337.065

SHEET

C5.06



3'x3' BOX MANHOLE 1+00.00

 \longrightarrow \bigcirc \sim \sim \sim

JOSHUA COVE

8" WWTR CROSSING 1+16.9, STORMLINE 1.

10' CURB INLET

FL (OUT)=1675.95'

321 6596 SF

RIM=1680.70'

1+21.44

-STORMLINE 1.1

 $Q_{100} = 10.43$ CFS $V_{100} = 6.70 \text{ FPS}$ s = 1.04% $D_{100} = 1.24$ n = 0.013 $Q_{25} = 8.65 \text{ CFS}$ $V_{25} = 6.57 \text{ FPS}$ $D_{25} = 1.14$ 1 / 100 yr HGL 1678 __±18 L.F. 18" HDPE <u>@</u> 1.01%

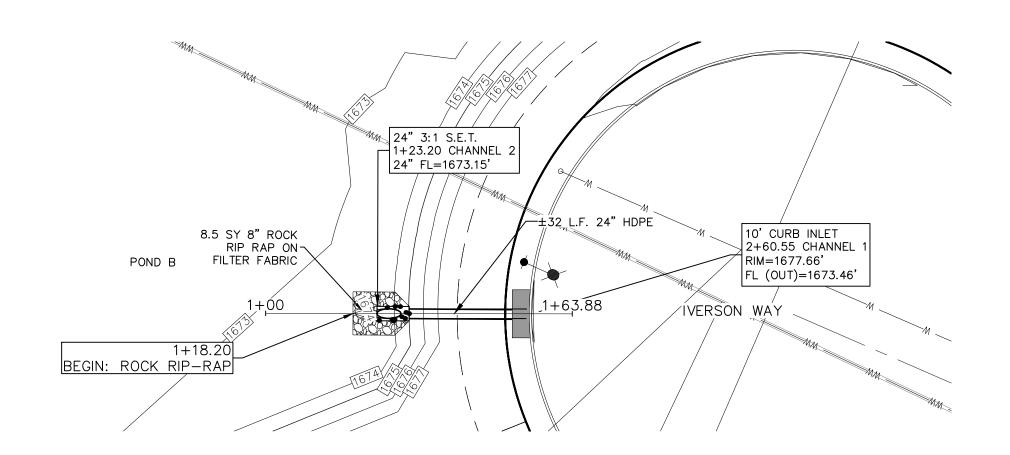
1+00

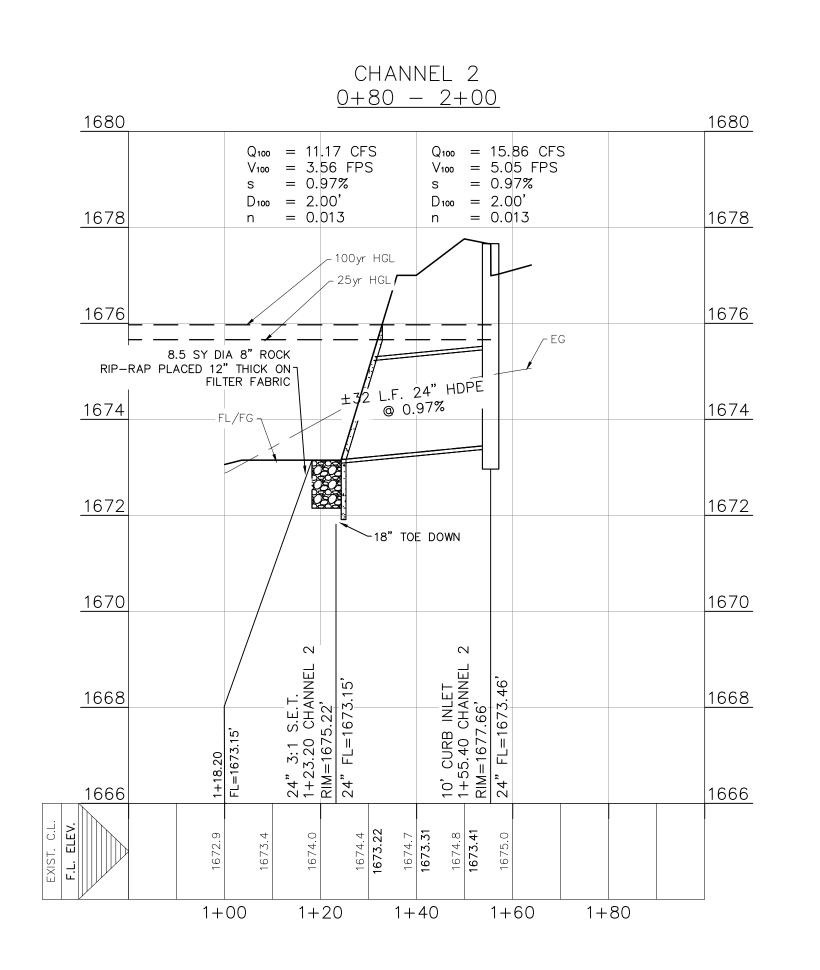
1+20

REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

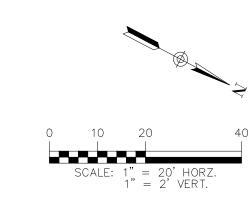
THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.





<u>LEGEND</u> EXISTING CONTOURS PROPOSED CONTOURS BUILDING SETBACK LINE B.L. U.E. UTILITY EASEMENT D.E. DRAINAGE EASEMENT S.B.C. SINGLE BOX CULVERT PROPOSED STORM DRAIN LINE UTILITY CROSSING



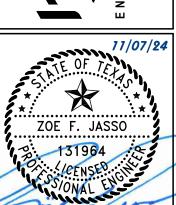
DRAINAGE FEATURES, DETENTION BASIN MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS:

SILT SHALL BE REMOVED AND THE BASIN RETURNED TO ORIGINAL LINES AND GRADES WHEN STANDING WATER CONDITIONS OCCUR OR THE BASIN STORAGE

VOLUME IS REDUCED BY MORE THAN 10%.

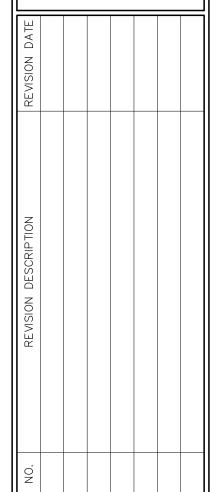
- A. TO LIMIT EROSION, NO UNVEGETATED AREA SHALL EXCEED 10 SQ. FT. IN EXTENT.
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UNIT 3 TEXAS HANNE <u>ට</u> න

STORM



DATE: AUGUST 2024

DRAWN BY: **JK** DESIGNED BY: RS

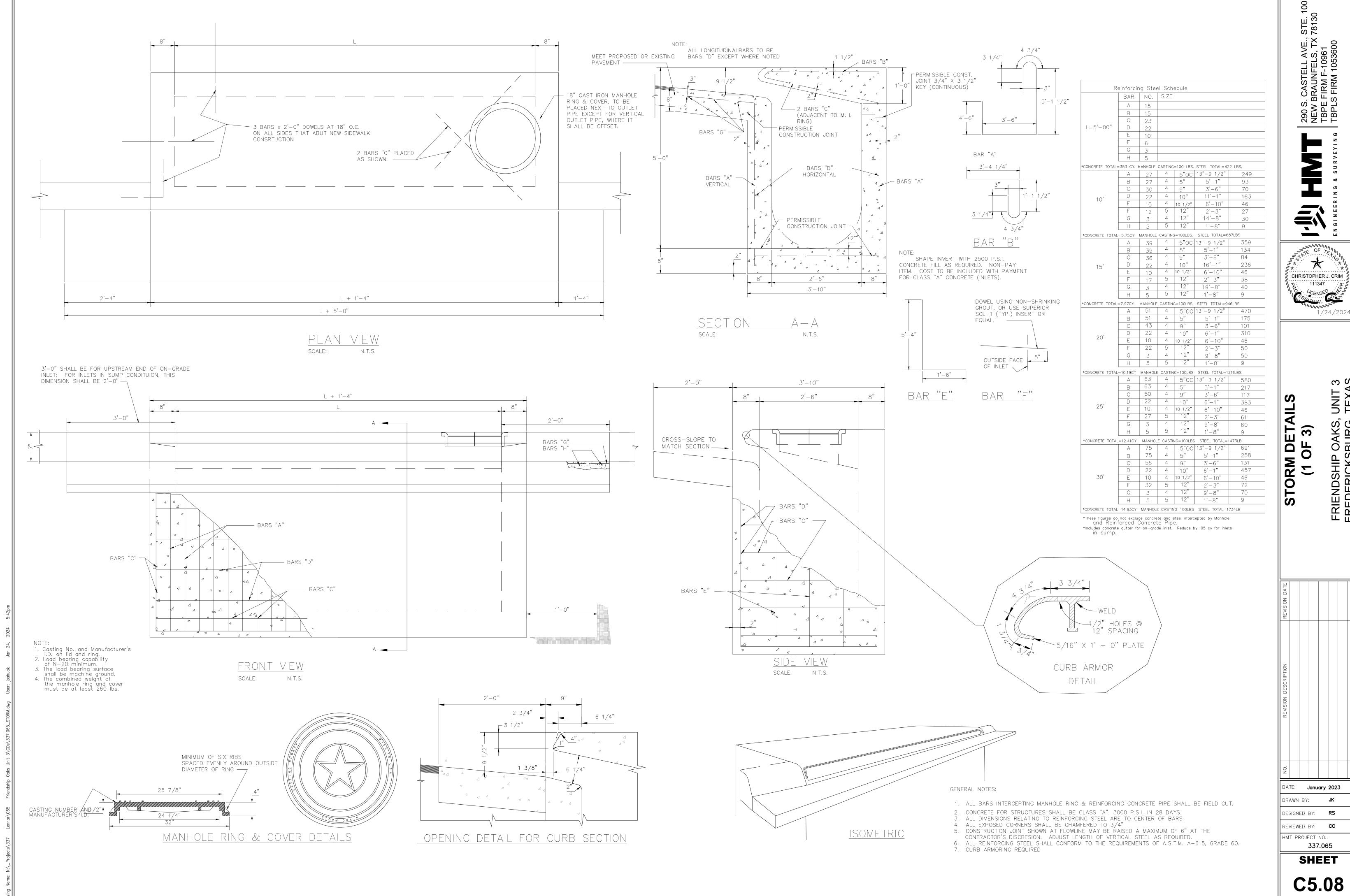
EVIEWED BY: **ZJ** HMT PROJECT NO.: 337.065

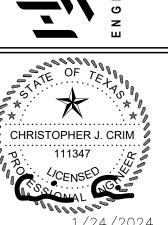
> SHEET C5.07

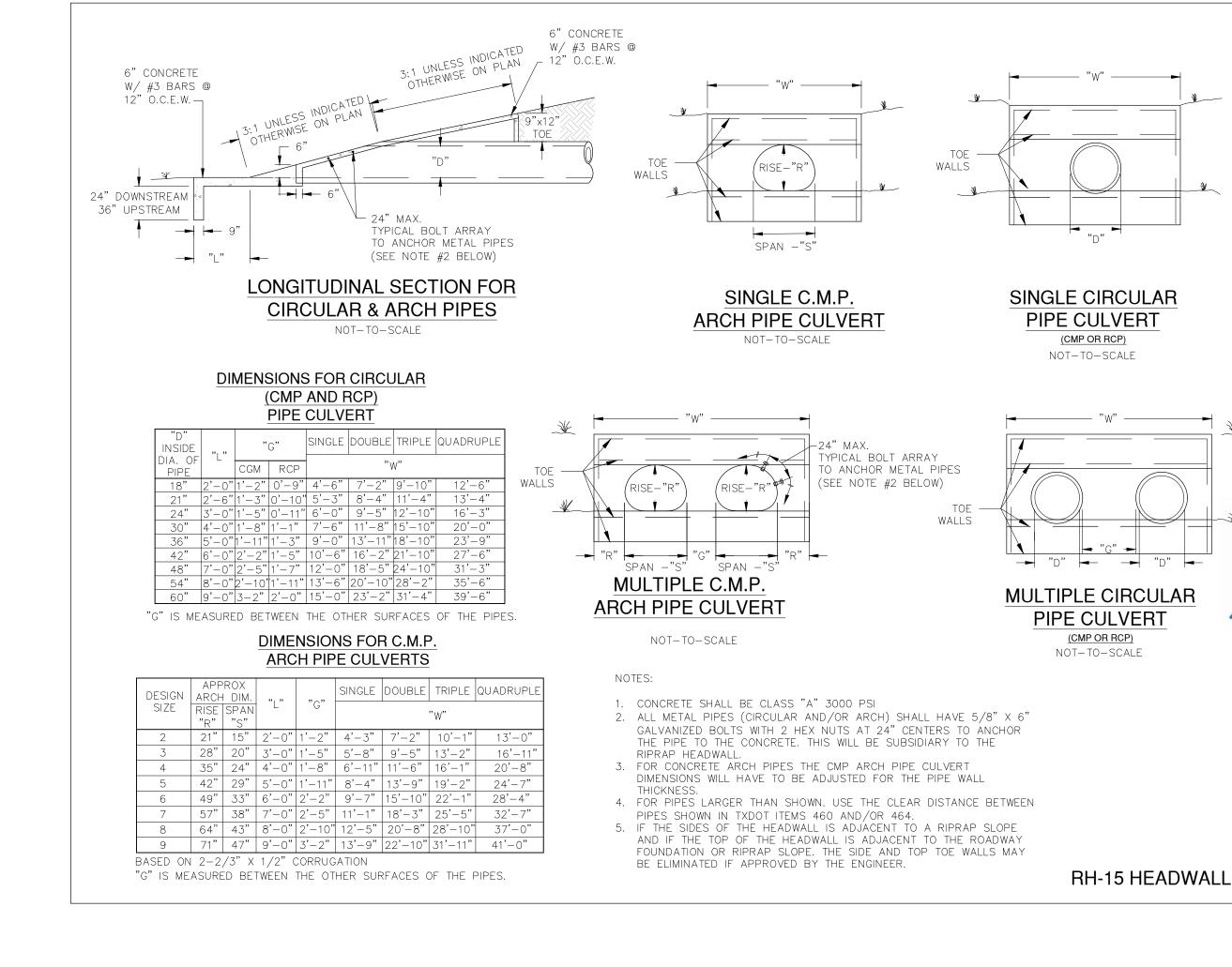
REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION. THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE

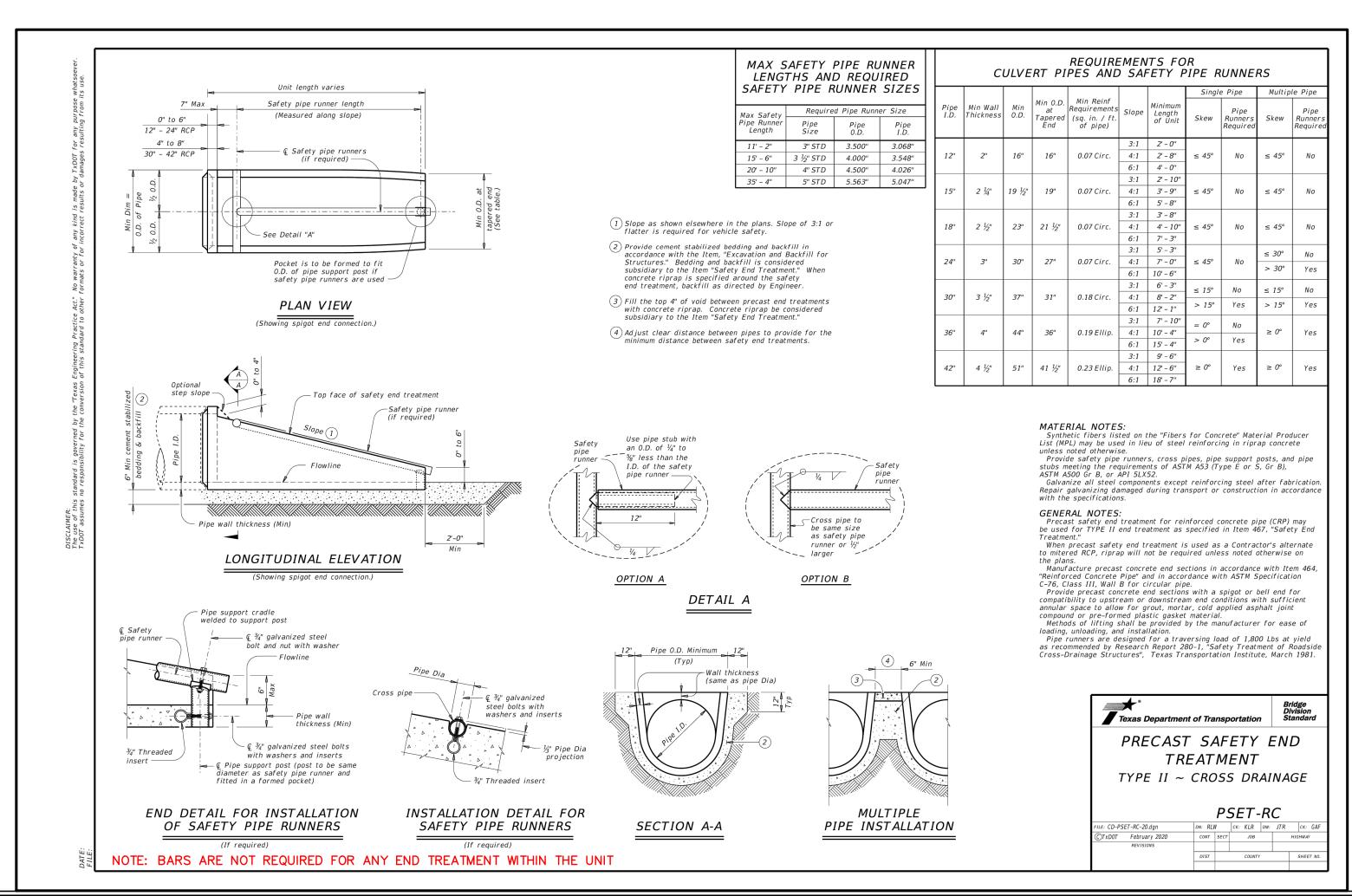
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12/03/24 ZOE F. JASSO

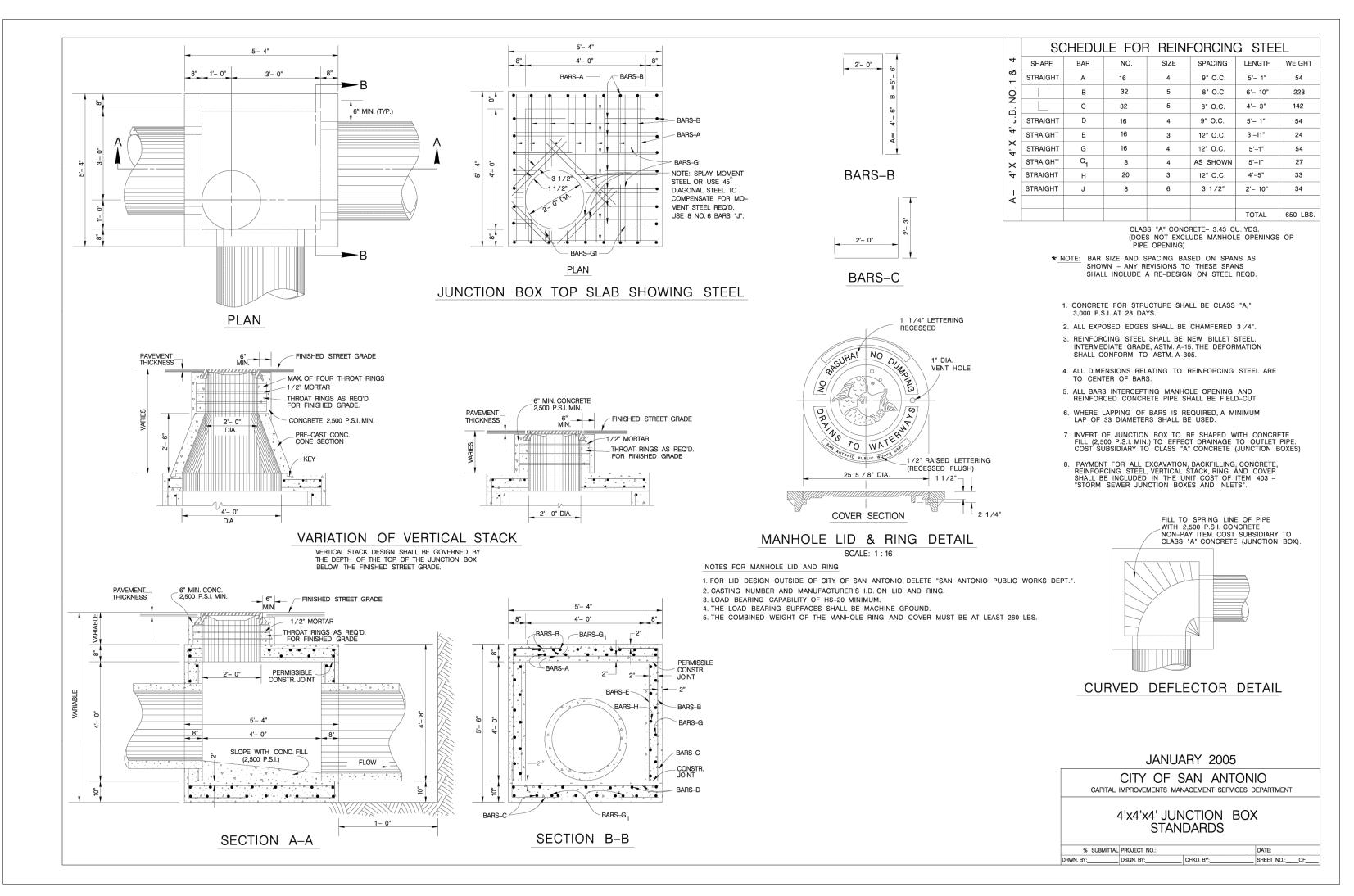
M DETAIL OF STORN (2

DATE: AUGUST 2024 DRAWN BY: DESIGNED BY: RS

REVIEWED BY: ZJ HMT PROJECT NO .: 337.065

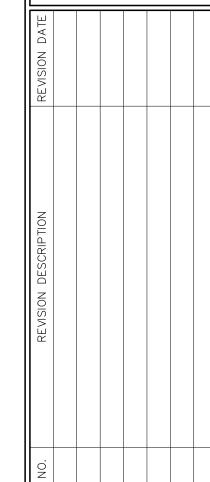
Permanent Turf Reinforcement Mat	Class	Max Shear (vegitated)	Max Velocity	Manning's N (unveg)*
Landlok 435	1	8	12	0.025
Futerra 7010 Green Armor	1	8	16	.025045
EroNet P300	1	8	16	.020034
Landlok 450	2	10	18	0.025
VMax P350	2	10	20	.012041
VMax P550	2	12	22	.023029
Futerra 7020 Green Armor	3	17	20	.025045
Futerra R45 (HP-TRM)	3	20	30	-

Note: Contractor to select permanent turf reinforcement mat from list above based on class. If an alternate mat is preferred, contact the engineer on record to approve any unlisted erosion control mats. Installation of turf reinforcement mat shall be in accordance with manufacturers specifications



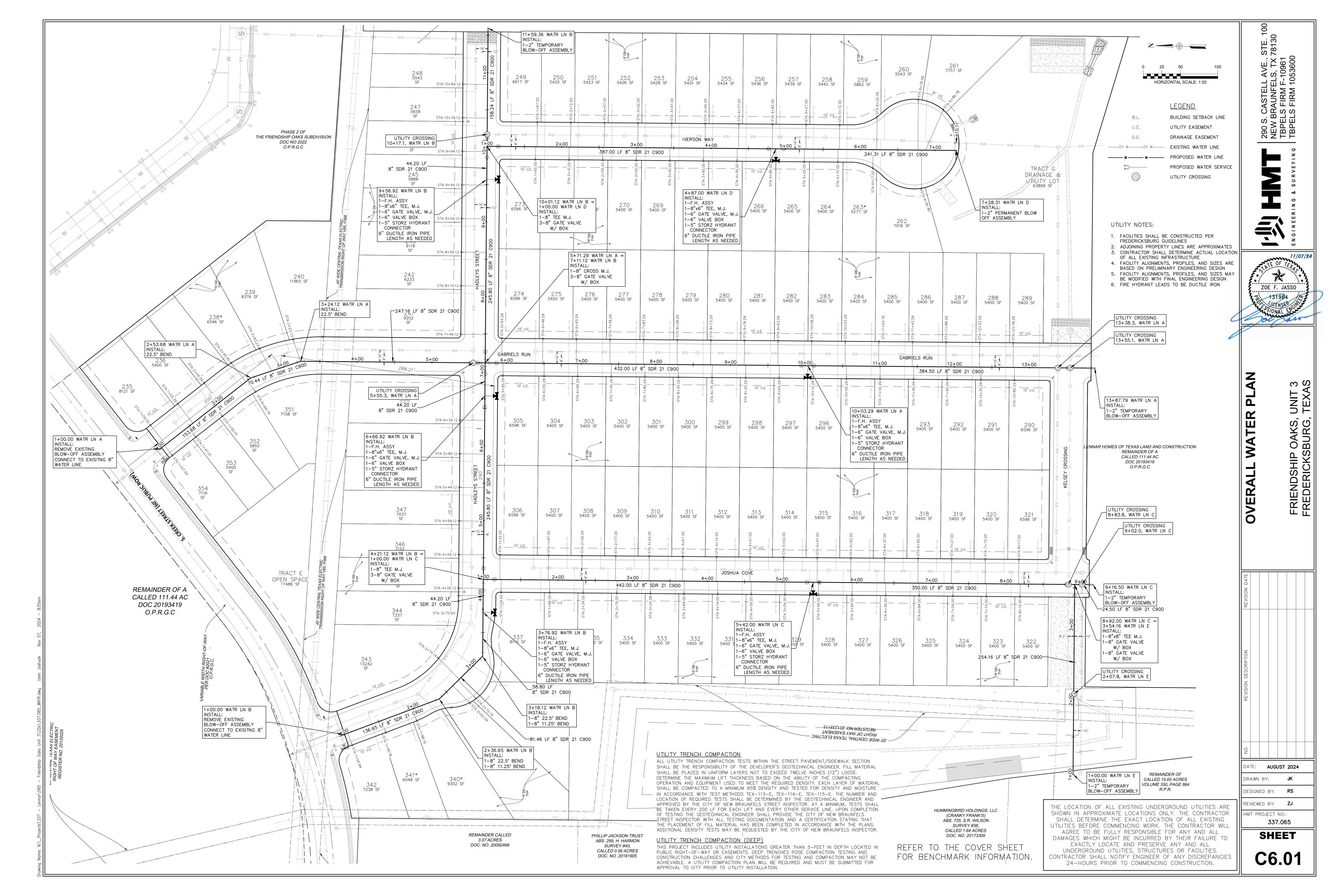


FORM DETAILS (3 OF 3)



DATE: AUGUST 2024 DRAWN BY: **JK** DESIGNED BY: RS

REVIEWED BY: ZJ HMT PROJECT NO .: 337.065



No work requiring inspection shall be done between the hours of 6:00 pm and 7:00 am, Monday through Friday, at any time on Saturdays, Sundays, or legal holidays without the written approval of the City of Fredericksburg in each case, except for such work as may be necessary for the proper care and protection of work already done or of equipment or in the case of an emergency.

The CONTRACTOR shall at all times take precautions to keep all utilities within the area of construction operational. The CONTRACTOR shall notify the OWNER of existing utilities at least 24 hours before crossing existing underground utilities.

The CONTRACTOR shall maintain the utilities in service during construction and will be responsible for any damage he may inflict on a utility. All damages resulting from the CONTRACTOR'S operations shall be repaired by the CONTRACTOR immediately at the CONTRACTOR'S expense to the satisfaction of the owner of such a utility

The location of existing utilities shown on any attached drawings does not necessarily indicate all of or the exact location of utilities that may be encountered during construction. The CONTRACTOR shall be responsible for locating all existing underground utilities and customer service taps and shall proceed with work in accordance with the information found

Whenever existing utilities are encountered whose present grade would conflict with the new construction, the CONTRACTOR shall notify the City of Fredericksburg who shall arrange revisions without unreasonable delay.

If the work requires shut-off of any part of the existing water system, these shut-offs will be made by the City of Fredericksburg Water Department upon reasonable notice by the CONTRACTOR requesting same. The time and schedule of all shut-offs must be approved by the City of Fredericksburg Water Department prior to beginning such work.

SAW CUTTING:

Before trenching within paved streets, the CONTRACTOR will saw cut the pavement to a width of at least one (1) foot wider than the width of the trench (six inches on each side of trench) to prevent the pavement from lifting loose along the trench. Only such width necessary shall be removed.

BEDDING:

A four (4) inch minimum of sand or pea gravel bedding material shall be deposited uniformly in the bottom of the trench, on both sides of the pipe, for the full width of the trench and to a height of six (6) inches above the top of the pipe. The backfill material shall contain no rocks, stones, or objectionable material larger than three (3) inches in diameter and shall be free from material that

may decompose. All backfill material is to be placed in six (6) inch (maximum) compacted layers. Compaction is to be accomplished with a gasoline or air driven trench compactor, or backhoe mounted sheep foot or vibratory trench compactor. Water jetting will not be allowed. The top eight (8) inches (minimum) of the trench will be backfilled with crushed limestone base material approved by the City of Fredericksburg and compacted in two (2), four (4) inch layers with a gasoline or air driven trench compactor. See attached drawing for details.

REPAVING:

After clean up is completed, the CONTRACTOR will apply a two (2) course surface treatment.

BARRICADES:

The CONTRACTOR shall, at his own expense, furnish, erect, and maintain such barricades, fences, lights, and danger signals to keep pedestrians away from being driven on or into any work or construction area and shall take such other precautionary measures necessary for the protection of persons or property along the work or construction area. Streets must be open to through traffic at night. Every reasonable and proper precaution shall be taken by the CONTRACTOR to ensure the safety of the work and employed personnel, the public and adjacent property whether publicly or privately owned.

To protect persons from injury and to avoid property damage, barricades, signs, lanterns or lights and guards as required shall be placed and maintained by the CONTRACTOR during the progress of the construction. Traffic control devices shall be installed according to the Texas Manual on Uniform Traffic Control Devices, Part VI, Traffic Controls for Street and Highway Construction and Maintenance operations.

BLOCKING:

Concrete thrust blocks shall be installed at the CONTRACTOR'S expense at all fittings. Thrust blocks shall be of concrete, poured in place. The block shall be of sufficient depth to brace the entire diameter of the fitting and of sufficient size to entirely fill the space between the fitting and the other side of the trench. The block shall rest upon and against the undisturbed soil only. Blocks shall be constructed in such a manner that it is possible to re-caulk any joint. The concrete shall extend under the fittings in such a way that the fitting is entirely embedded in concrete. The concrete shall be at least four (4) inches in depth under the lowest part of the fitting. Concrete shall be four (4) bag mix with minimum twenty-eight (28) day compressed strength of two thousand eight hundred (2,800) PSI.

See Figure 18-A on page 18 for minimum blocking requirements.

STERILIZATION OF POTABLE WATER LINES:

The CONTRACTOR shall protect all piping material from contamination during storage, handling, and installation. Prior to disinfection, the pipeline interior shall be clean, dry, and unobstructed. All dirt, debris, gasket lubrication, etc., shall be washed from the line by swabbing with hypochlorite solution and/or flushing with clean water.

The CONTRACTOR, at his expense, will supply the test gauges and the concentrated disinfecting material, and the City personnel shall supervise and direct the overall sterilization procedure. The CONTRACTOR, at his expense, will provide all other equipment, supplies, and necessary labor to perform the sterilization under general supervision by the City.

PROCEDURE AND DOSAGE:

All valves shall be arranged to prevent the strong disinfecting dosage from flowing back into the existing water supply piping, or into the existing distribution piping. The new pipeline shall then be completely filled with disinfecting solution by feeding the concentrated chlorine and approved water from the solution supply system uniformly into the new piping in such proportions that every part of the line has minimum concentration of 50 PPM (parts per million or milligrams per liter) available chlorine.

Unless otherwise directed, all quantities called for herein refer to measurements by the testing procedures in the current edition of "Standard Methods". The chlorine concentration of each step in the sterilization procedure shall be verified by chlorine residual determinations. The disinfecting solution shall be retained in the piping for at least 24 hours and all valves, hydrants, etc., shall be operated to disinfect all of their parts. After this retention period, the water shall contain no less than 25 PPM chlorine residual throughout the treated section of the pipeline.

This heavily chlorinated water shall then be carefully flushed from the lines until the chlorine concentration is no higher than the residual generally prevailing in the existing distribution system, or approximately one (1) part per million. Proper planning and appropriate preparation to handle, dilute, and dispose of this strong chlorine solution without causing injury or damage to the public, the water system, or the environment, must be approved by the City before flushing of the line may begin, and the flushing shall be witnessed by an authorized representative of the

BACTERIOLOGICAL TESTING:

After final flushing of the strong disinfecting solution, water samples from the line shall be tested for bacteriological quality by the City and must be found free of coliform organisms before the pipeline may be placed in service. One test sample shall be drawn from the end of the main and additional samples collected at intervals of not more than 3,000 feet along the pipeline.

The CONTRACTOR, at his expense, shall install sufficient sampling taps at proper locations along the pipeline. Each sampling tap shall consist of a standard corporation cock installed in the line and extended with a copper tubing goose neck assembly. After samples have been collected, the goose neck assembly may be removed and retained for future use.

Samples for bacteriological analysis shall be collected only from suitable sampling taps in sterile bottles, treated with sodium thiosulfate. Samples shall not be drawn from hoses, fire hydrants, etc. The CONTRACTOR, at his expense, will furnish the sterile sample bottoms, and may, at his discretion, collect the test samples with City personnel.

If the initial disinfection fails to produce acceptable sample tests, the disinfection procedure shall be repeated (without additional or extra compensation) until satisfactory tests have been obtained before the piping may be placed in service.

INTERCONNECTION TO EXISTING CITY WATER SYSTEM:

The CONTRACTOR is required to, upon reasonable notice, arrange for the City of Fredericksburg Water Department to valve off portions of the existing water systems necessary for the CONTRACTOR to make the interconnections. The existing water system will not be valved by the CONTRACTOR. Interconnections made by the CONTRACTOR shall include cutting out, providing temporary blocking as required, and making up all connections to the new and old system. All work by the CONTRACTOR shall be subject to inspection and approval by the City of Fredericksburg.

PRESSURE TESTING:

The CONTRACTOR will be required to water test water lines and pressure test sanitary sewer lines according to the City of Fredericksburg specifications.

 \bigstar

RYAN P. SHAW

OF

WATER PIPE MATERIALS:

- 1. Pipe: C-900 DR18 Gasket type: 8" minimum diameter.
- 2. Valves: Mueller resilient seat valves, M.J. both ends; catalogue # A-2370-20.
- 3. Six (6) inch blow-off will be provided by the City. The blow-off line will then be filled with water over night, then blow off again the next day.
- 4. Taps: no direct taps. Use 8" X 1" C.C. Thread bronze saddles with 1" C.C. Thread Corporation stop.
- 5. 1" type "K" copper tubing to be used for all service connections with 1" X 1/4" angle

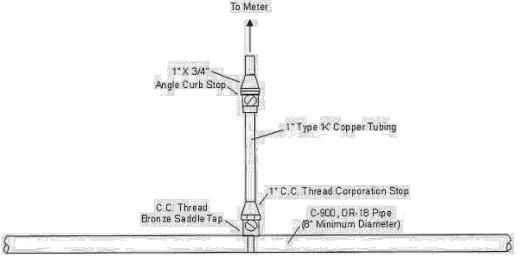
TYPICAL SERVICE CONNECTIONS:

All water service connections shall be single services as shown in the detail below and located near the center of each lot.

PLACEMENT OF WATER METERS:

After the street contractor has completed street construction and has bladed and cleaned up back slopes behind curb, a water meter box (City approved) shall be placed over each water service. This box shall be located 6" back of curb and the top at finished grade elevation. The top at finished end of the water service shall be located within 8" from the top of box.

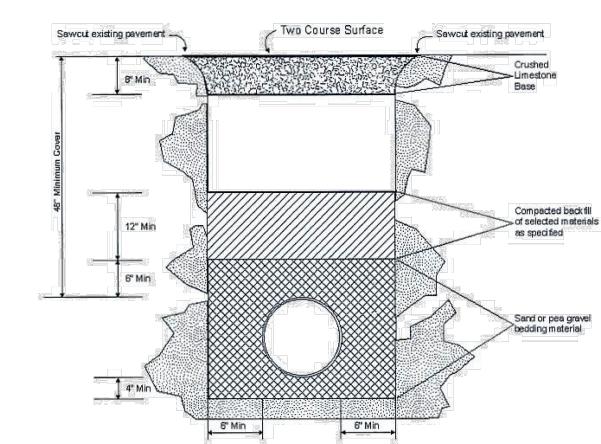
Single Service Connection



ALL FITTINGS TO BE MUELLER

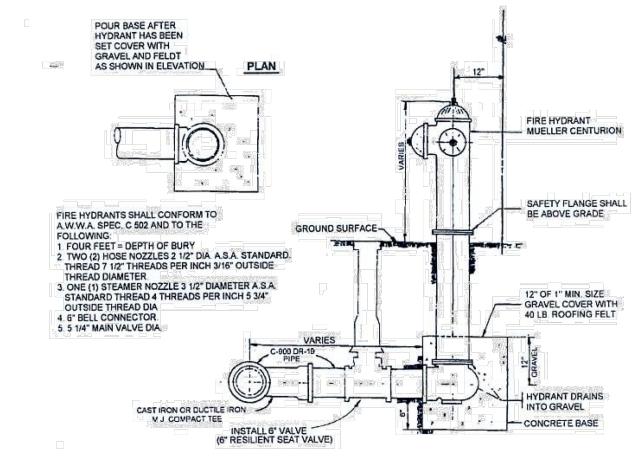
TRENCH & BACKFILL DETAIL:

To be used to backfill all open cuts in City Streets



NOTES:

- All backfill to be placed in 6" (maximum) compacted layers. Compaction to be accomplished with a gasoline or air driven trench compactor. Water jetting will not be
- 2. The top 8" (minimum) of the trench will be backfilled with crushed limestone base material approved by the City of Fredericksburg and compacted in two 4" layers with a gasoline or air driven trench compactor.
- 3. The end of the pipe shall be plugged daily. No trench may remain open over night. Note: Compaction may be accomplished with backhoe mounted sheep foot or vibratory trench compactor.



NOTES:

1. Embed all exterior metal surpluses in silica sand. 2. All reinforcing bars in the concrete reaction block shall be #4.

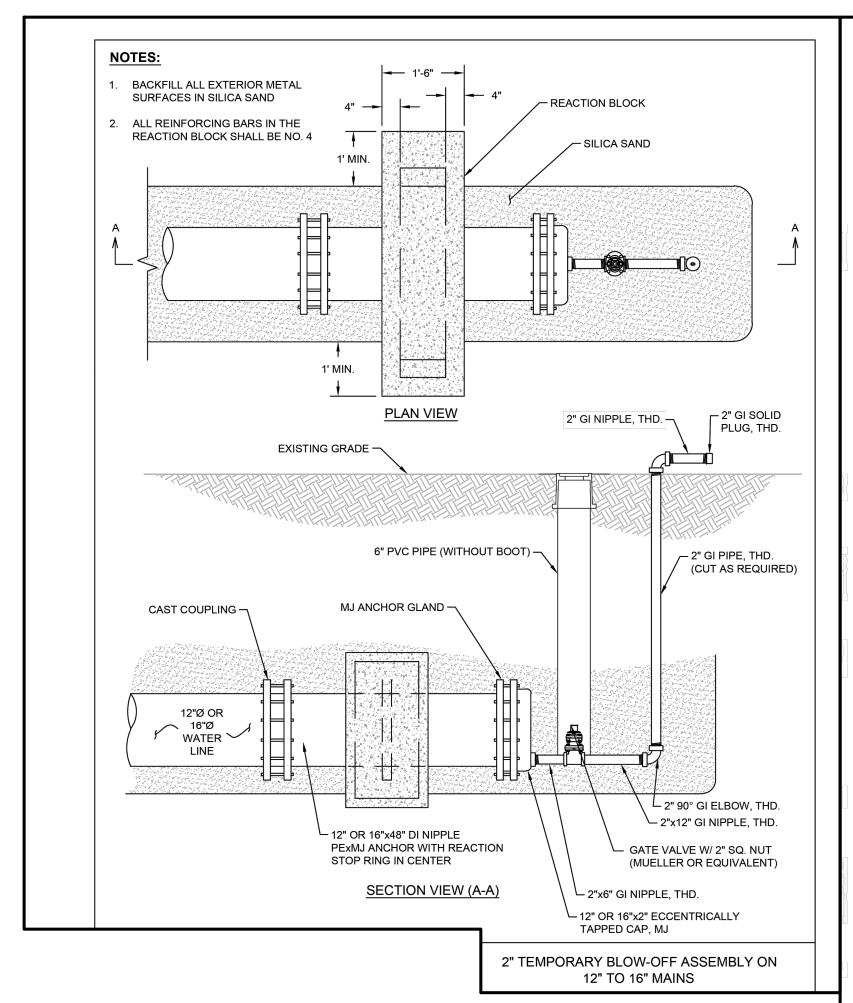
TYPICAL FIRE HYDRANT CONNECTION:

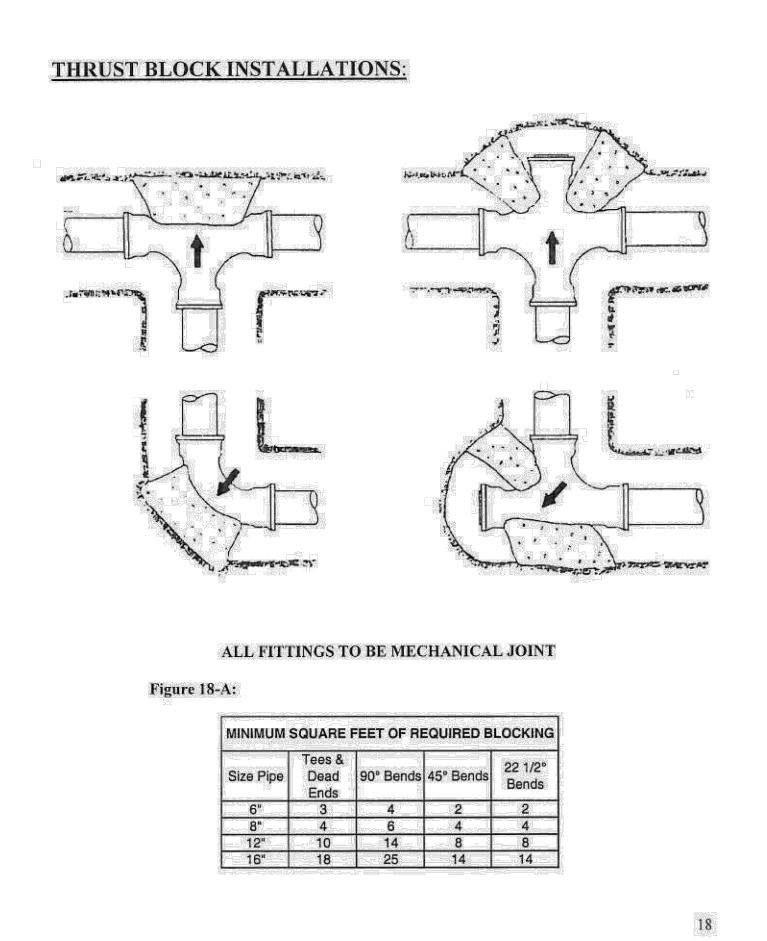
REVIEWED BY: HMT PROJECT NO.: 337.065

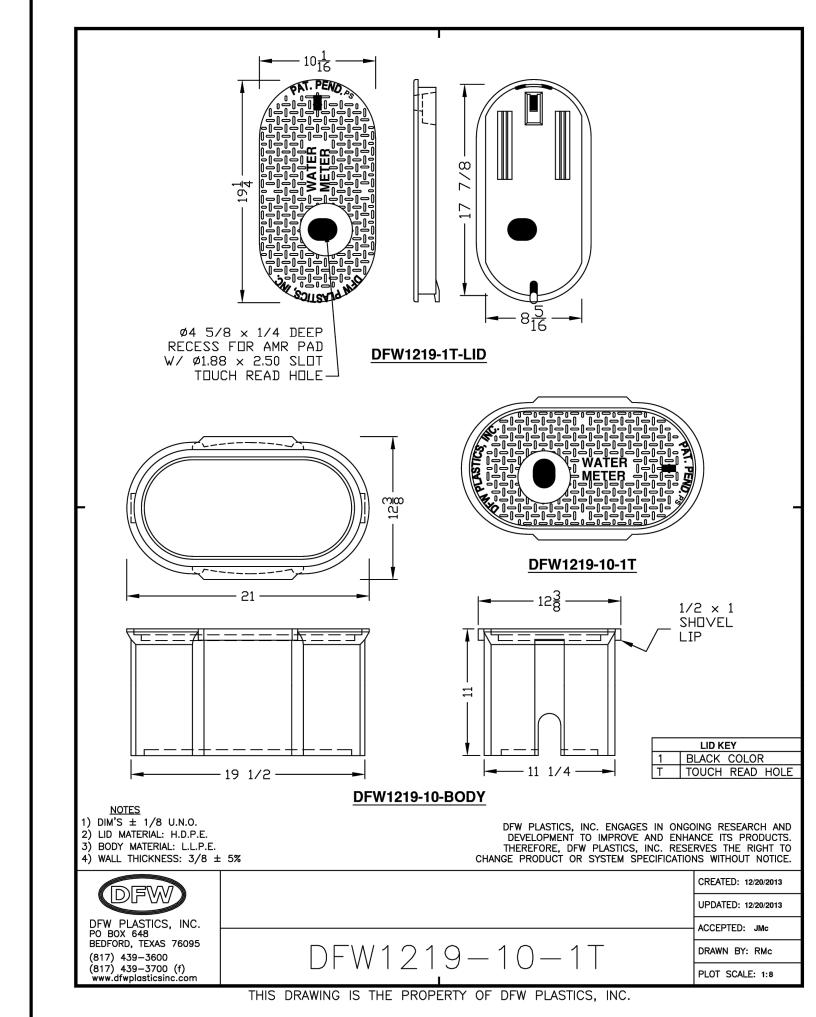
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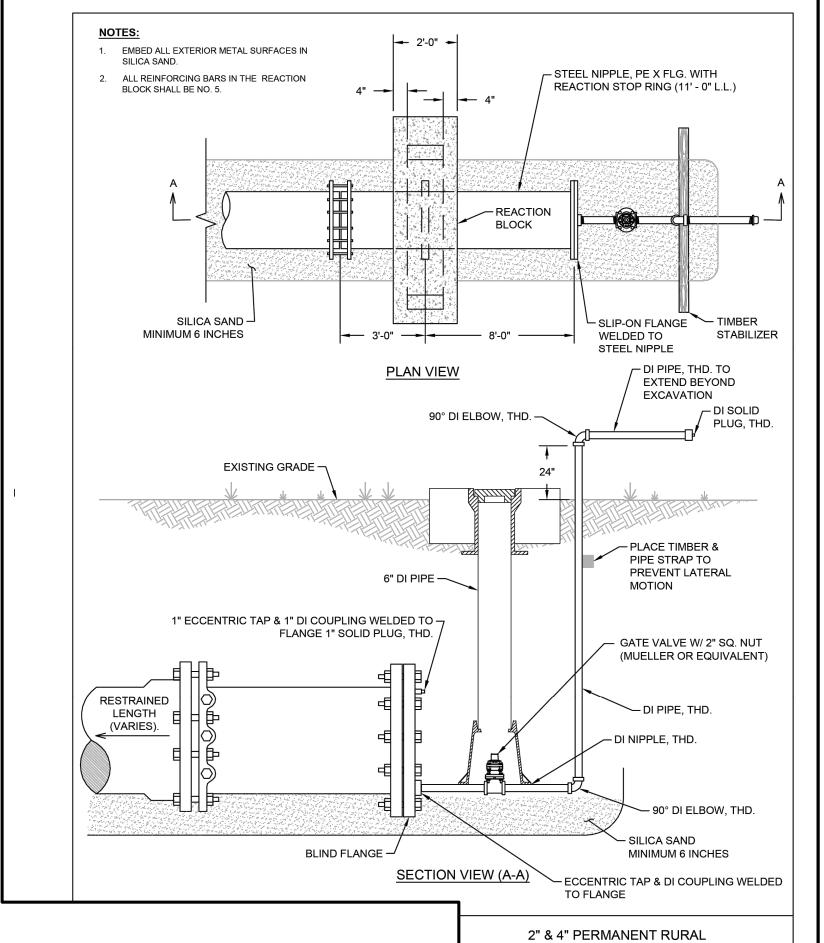
C6.02

August 2023 DRAWN BY: DESIGNED BY: RS

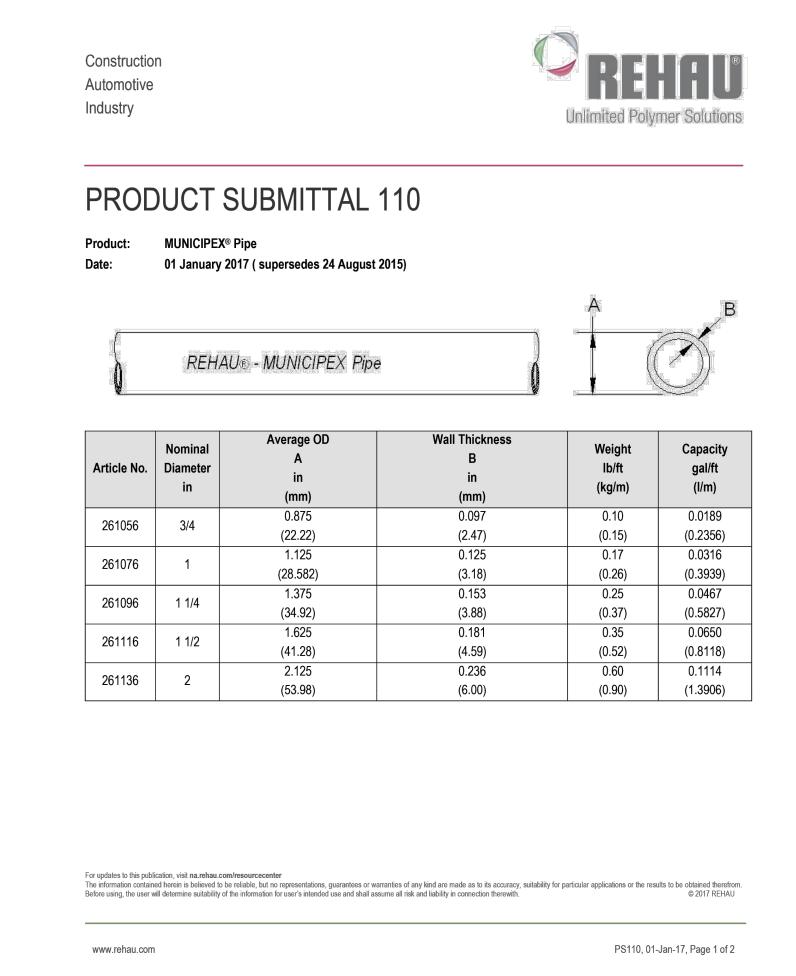


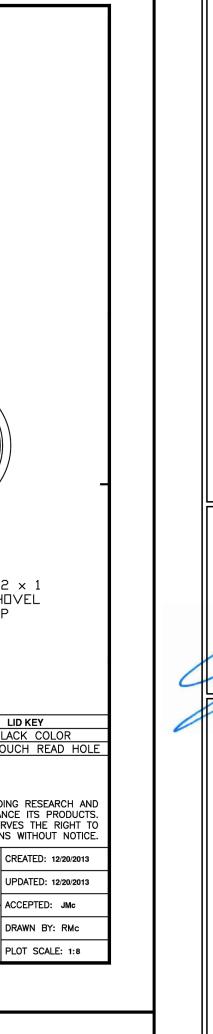






BLOW-OFF ASSEMBLY





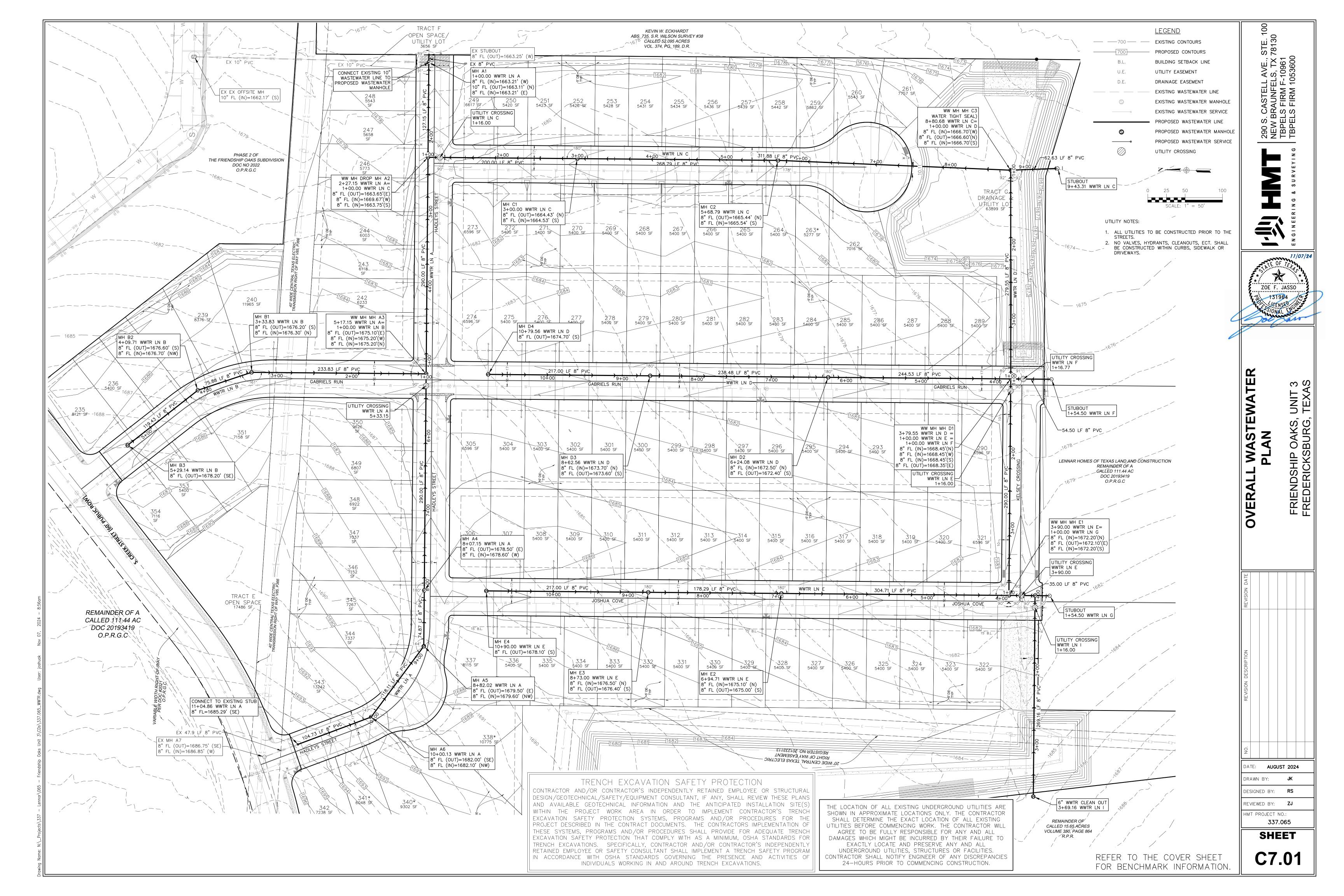
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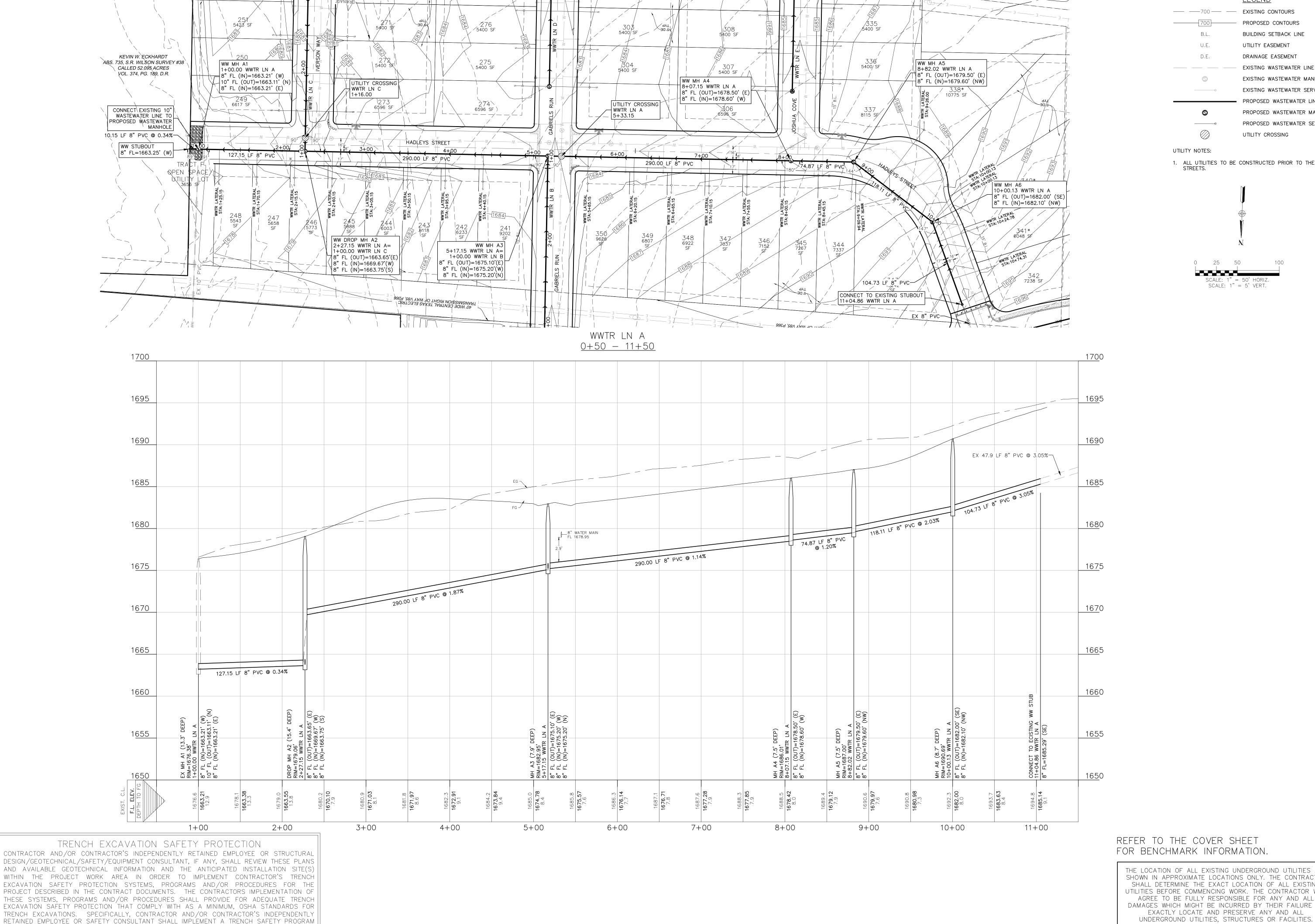
ZOE F. JASSO

DATE: AUGUST 2024 DRAWN BY: **JK** DESIGNED BY: RS REVIEWED BY: ZJ HMT PROJECT NO .:

SHEET

337.065





IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF

INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

— 700 — EXISTING CONTOURS PROPOSED CONTOURS BUILDING SETBACK LINE UTILITY EASEMENT DRAINAGE EASEMENT EXISTING WASTEWATER LINE EXISTING WASTEWATER MANHOLE EXISTING WASTEWATER SERVICE PROPOSED WASTEWATER LINE PROPOSED WASTEWATER MANHOLE PROPOSED WASTEWATER SERVICE UTILITY CROSSING UTILITY NOTES:

1. ALL UTILITIES TO BE CONSTRUCTED PRIOR TO THE STREETS.

SCALE: 1" = 5' VERT.

290 S. CANEW BRATBPELS I

11/07/24

ZOE F. JASSO

REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES

24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

EVIEWED BY: ZJ HMT PROJECT NO.: 337.065

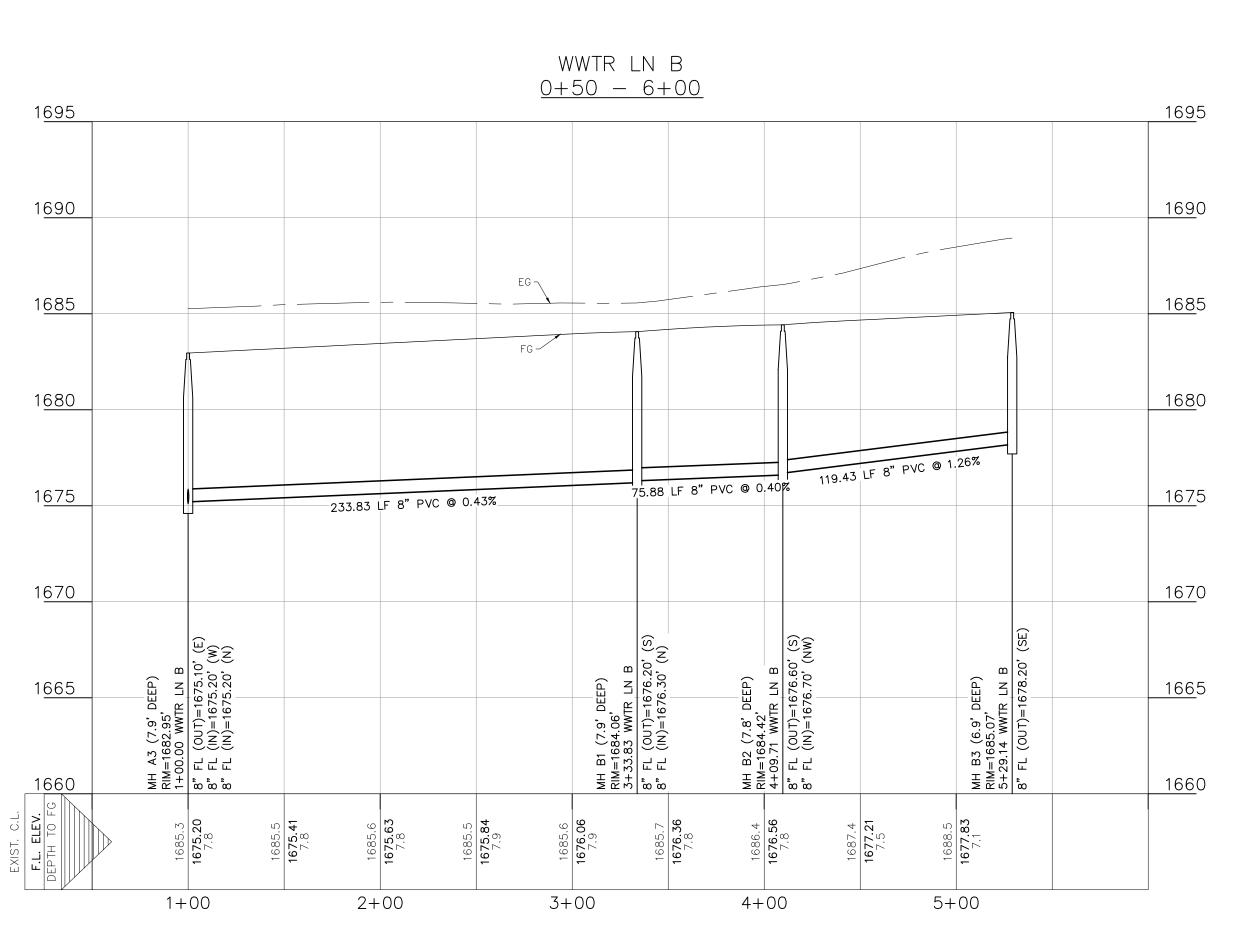
DESIGNED BY: RS

DATE: AUGUST 2024

DRAWN BY:

SHEET

C7.02



— 700 — EXISTING CONTOURS — PROPOSED CONTOURS BUILDING SETBACK LINE UTILITY EASEMENT DRAINAGE EASEMENT EXISTING WASTEWATER LINE SCALE: 1" = 5' VERT. EXISTING WASTEWATER MANHOLE EXISTING WASTEWATER SERVICE PROPOSED WASTEWATER LINE PROPOSED WASTEWATER MANHOLE PROPOSED WASTEWATER SERVICE UTILITY CROSSING

> UTILITY NOTES: ALL UTILITIES TO BE CONSTRUCTED PRIOR TO THE STREETS.

ZOE F. JASSO

290 S. CASTELL AVE., S NEW BRAUNFELS, TX 7 TBPELS FIRM F-10961 TBPELS FIRM 1053600

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EVIEWED BY: **ZJ** HMT PROJECT NO.: 337.065

DATE: AUGUST 2024

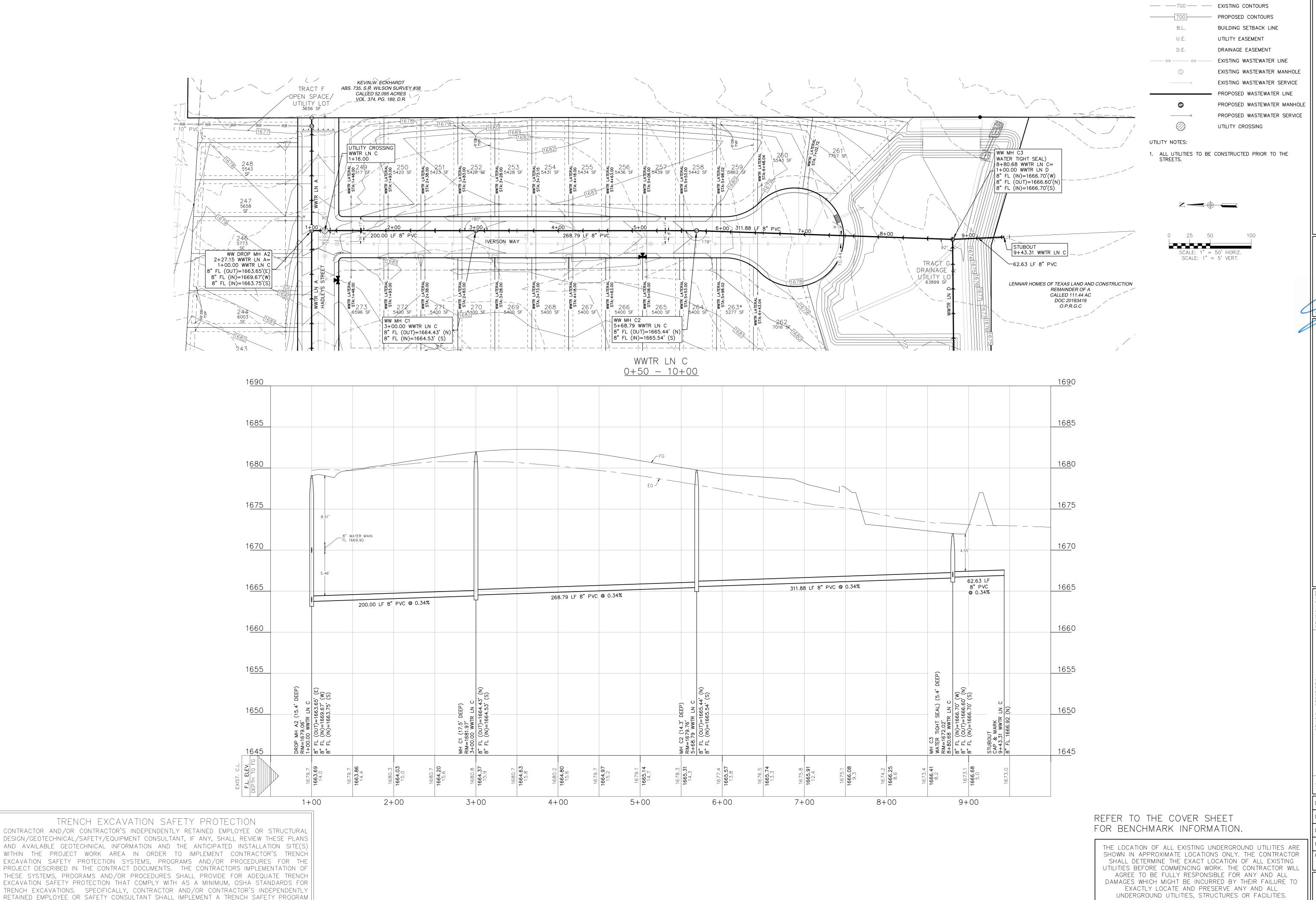
DRAWN BY: **JK**

DESIGNED BY: RS

SHEET

TRENCH EXCAVATION SAFETY PROTECTION CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTORS IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH

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IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF

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290 S. CASTELI NEW BRAUNFE TBPELS FIRM F TBPELS FIRM 1

11/07/24 ZOE F. JASSO

DATE: AUGUST 2024

DRAWN BY: DESIGNED BY: RS

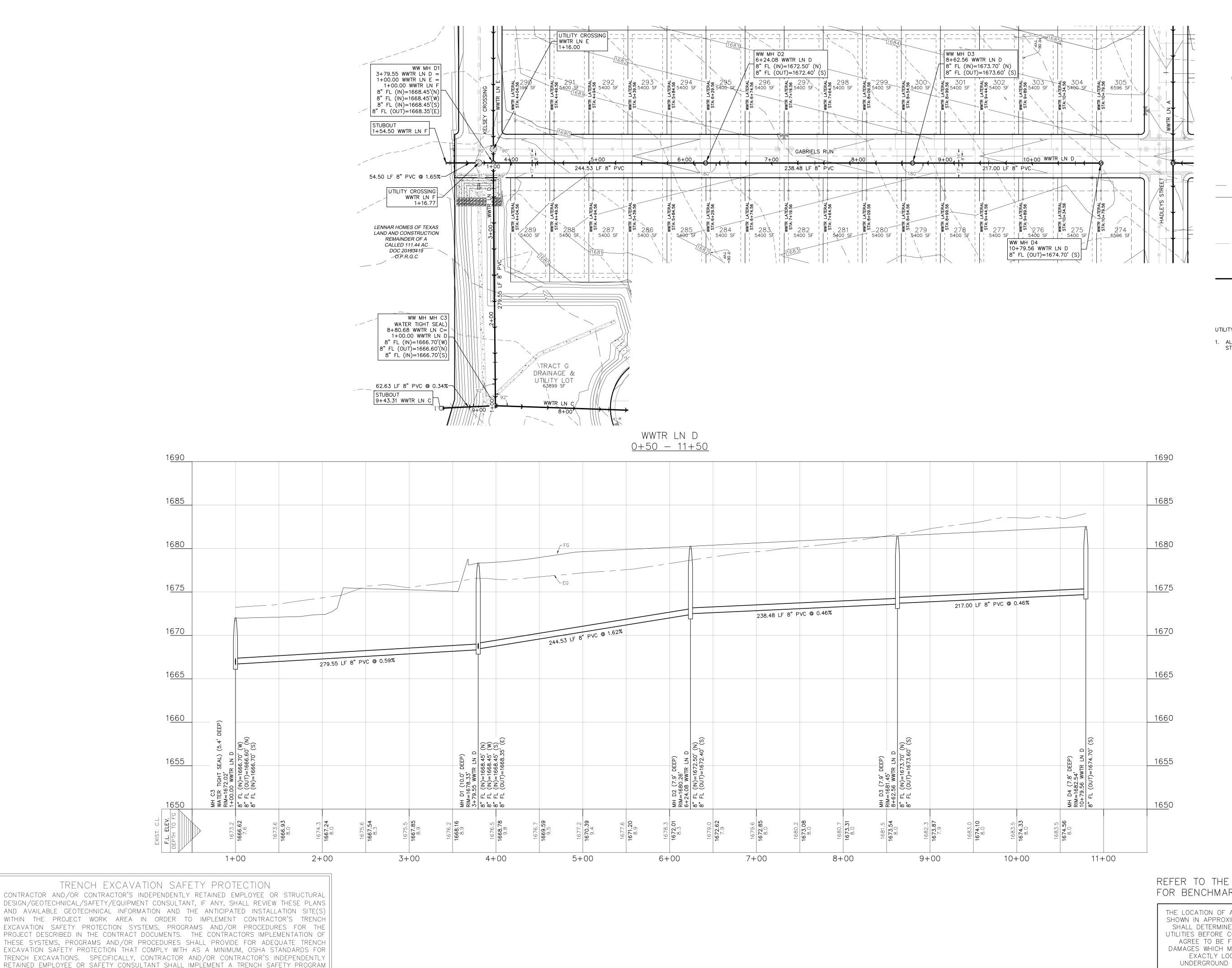
EVIEWED BY: **ZJ**

HMT PROJECT NO.: 337.065

SHEET

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IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF

INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

SCALE: 1" = 50' HORIZ. SCALE: 1" = 5' VERT.

<u>LEGEND</u> —700 — EXISTING CONTOURS PROPOSED CONTOURS BUILDING SETBACK LINE UTILITY EASEMENT DRAINAGE EASEMENT EXISTING WASTEWATER LINE EXISTING WASTEWATER MANHOLE EXISTING WASTEWATER SERVICE PROPOSED WASTEWATER LINE PROPOSED WASTEWATER MANHOLE PROPOSED WASTEWATER SERVICE

UTILITY NOTES:

ZOE F. JASSO

11/07/24

290 S. CASTELL AVE., S NEW BRAUNFELS, TX 7 TBPELS FIRM F-10961 TBPELS FIRM 1053600

ALL UTILITIES TO BE CONSTRUCTED PRIOR TO THE STREETS.

UTILITY CROSSING

WATER LN & PROFILE

DATE: AUGUST 2024

DRAWN BY: DESIGNED BY: RS

EVIEWED BY: ZJ

HMT PROJECT NO.: 337.065

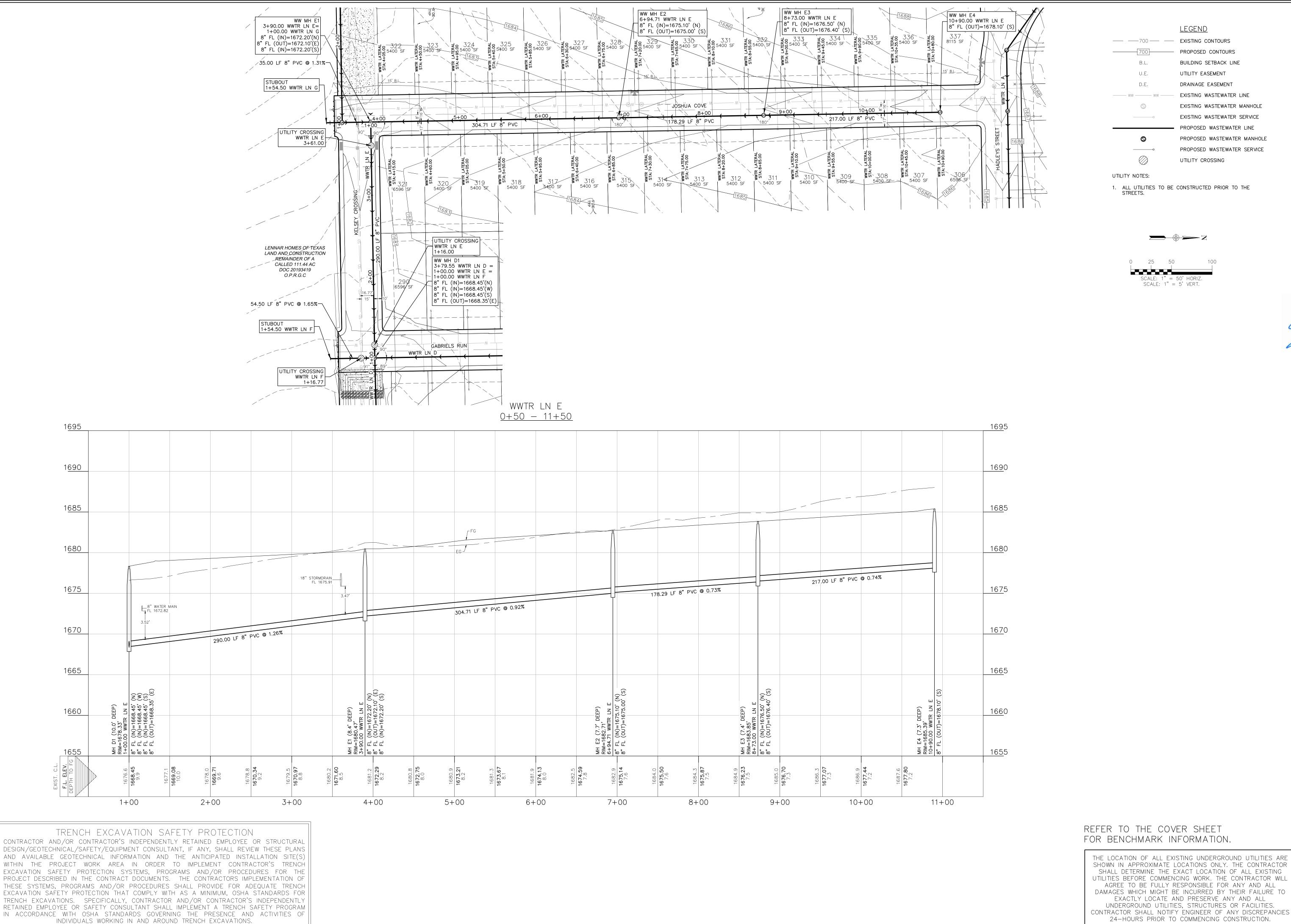
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SCALE: 1" = 5' VERT.

290 S. CASTELL AVE., S NEW BRAUNFELS, TX 7 TBPELS FIRM F-10961 TBPELS FIRM 1053600

11/07/24

UNIT 3 TEXAS

ZOE F. JASSO

DATE: AUGUST 2024

DRAWN BY: DESIGNED BY: RS

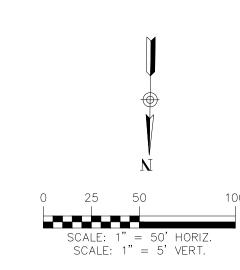
EVIEWED BY: **ZJ**

HMT PROJECT NO.:

337.065 SHEET

C7.06

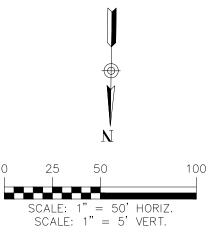
LENNAR HOMES OF TEXAS LAND AND CONSTRUCTION REMAINDER OF A CALLED 111.44 AC DOC 20193419 WW MH G1 1+00.00 WWTR LN I O.P.R.G.C UTILITY CROSSING 8" FL (OUT)=1672.66' (N) 8" FL (IN)=1672.76' (S) 8" FL (IN)=1672.76' (W) WWTR LN I 6" WWTR CLEAN OUT 3+69.16 WWTR LN I 1+16.00 REMAINDER OF CALLED 15.65 ACRES VOLUME 350, PAGE 864 HUMMINGBIRD HOLDINGS, LLC (CRANKY FRANK'S) ABS. 735, S.R. WILSON SURVEY #38, CALLED 1.64 ACRES J DOC. NO. 20173309

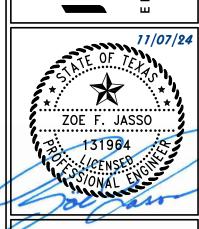


<u>LEGEND</u> ---- 700 --- EXISTING CONTOURS PROPOSED CONTOURS BUILDING SETBACK LINE UTILITY EASEMENT DRAINAGE EASEMENT EXISTING WASTEWATER LINE EXISTING WASTEWATER MANHOLE EXISTING WASTEWATER SERVICE PROPOSED WASTEWATER LINE PROPOSED WASTEWATER MANHOLE PROPOSED WASTEWATER SERVICE UTILITY CROSSING

UTILITY NOTES:

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DATE: AUGUST 2024

DRAWN BY: DESIGNED BY: RS

> EVIEWED BY: **ZJ** HMT PROJECT NO.:

337.065 SHEET

C7.07

WWTR LN I 0+50 - 4+001<u>690</u> <u>169</u>0 6" CONC. ENCASEMENT 8" WATER LINE <u> 167</u>5 1<u>675</u> 269.16 LF 8" PVC @ 0.74% 1<u>670</u> <u> 167</u>0

2+00

3+00

1+00

TRENCH EXCAVATION SAFETY PROTECTION

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

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AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL

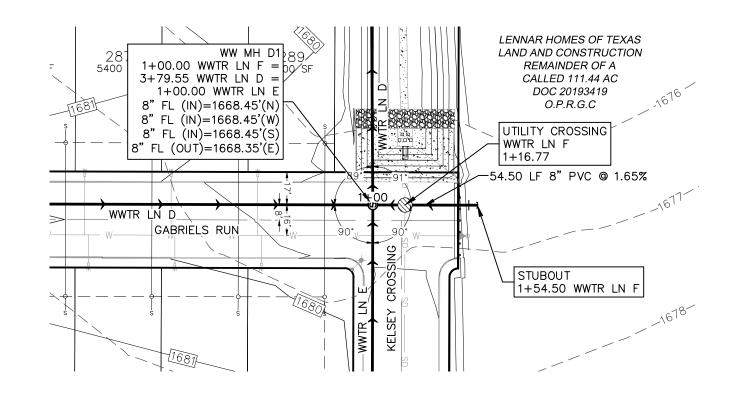
EXACTLY LOCATE AND PRESERVE ANY AND ALL

UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES.

24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES

DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO

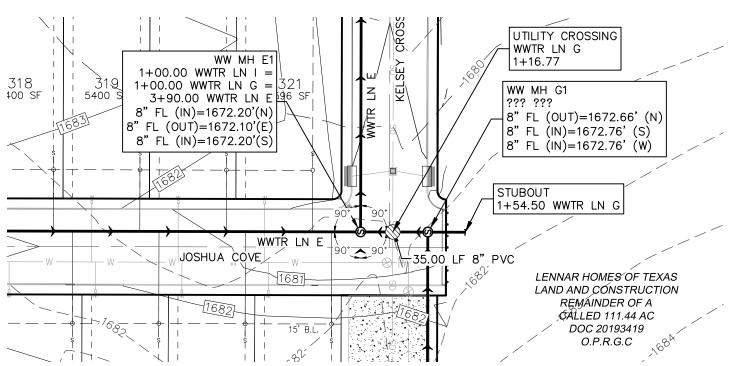


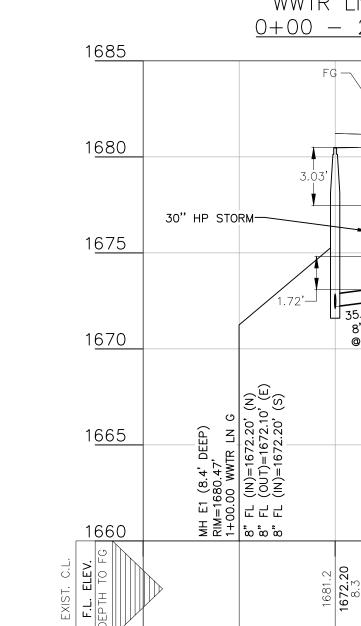
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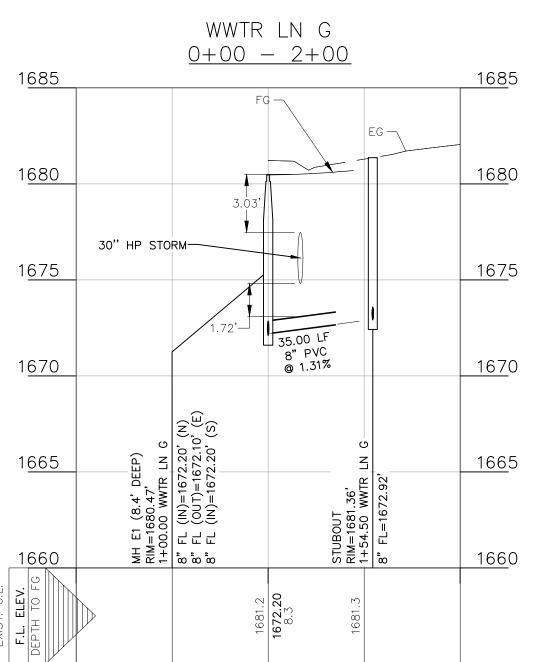
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<u>LEGEND</u> — 700 — EXISTING CONTOURS PROPOSED CONTOURS BUILDING SETBACK LINE U.E. UTILITY EASEMENT D.E. DRAINAGE EASEMENT ----- ww ----- EXISTING WASTEWATER LINE EXISTING WASTEWATER MANHOLE EXISTING WASTEWATER SERVICE PROPOSED WASTEWATER LINE PROPOSED WASTEWATER MANHOLE PROPOSED WASTEWATER SERVICE UTILITY CROSSING

UTILITY NOTES:

ALL UTILITIES TO BE CONSTRUCTED PRIOR TO THE STREETS.

SCALE: 1" = 5' VERT.

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ZOE F. JASSO

11/07/24

WASTEWATER LN F PLAN AND PROFIL

DATE: AUGUST 2024 DRAWN BY:

REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION. DESIGNED BY: RS

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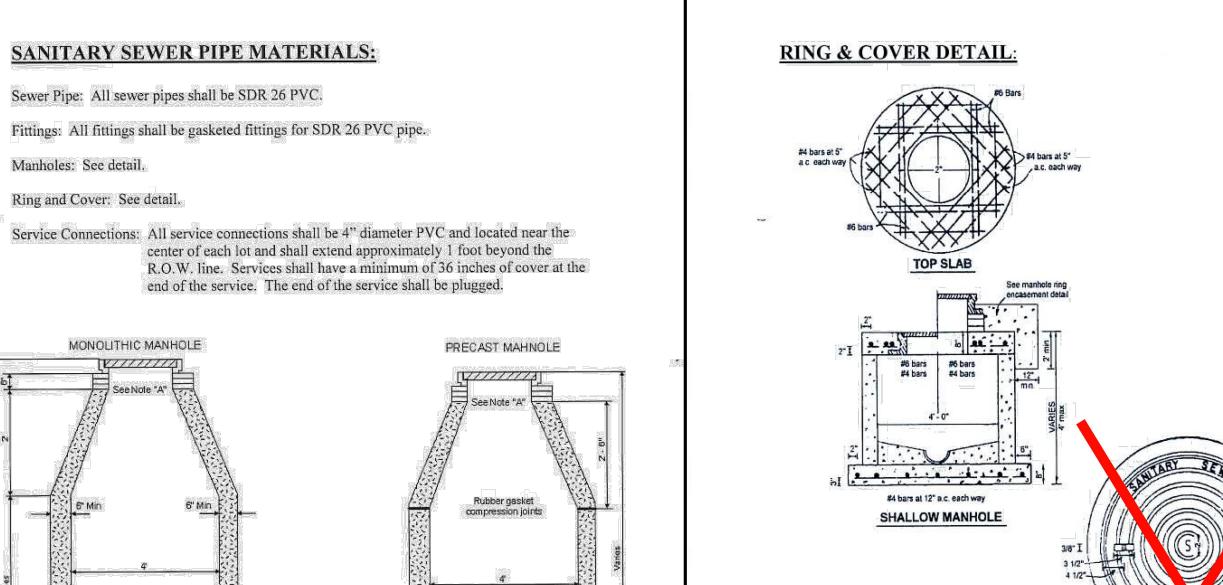
24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

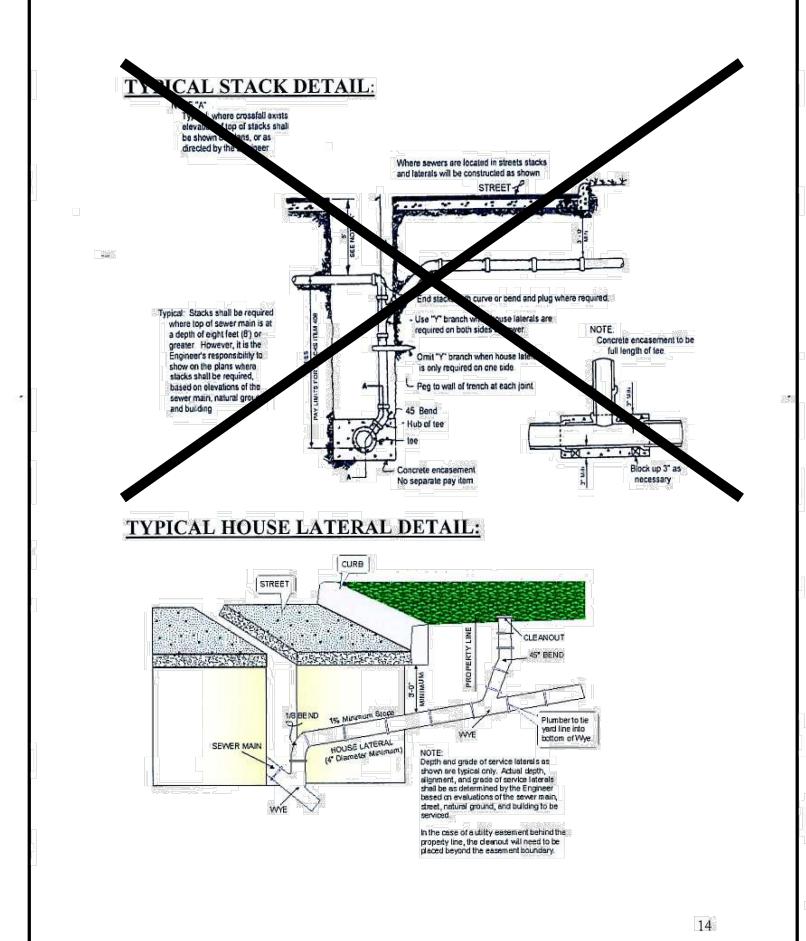
SHEET C7.08

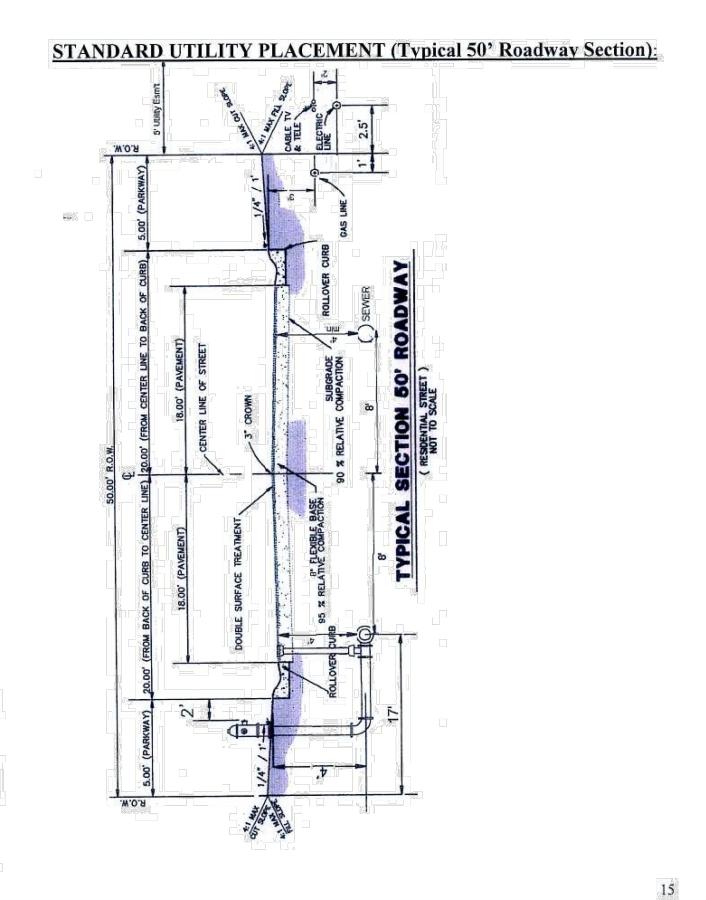
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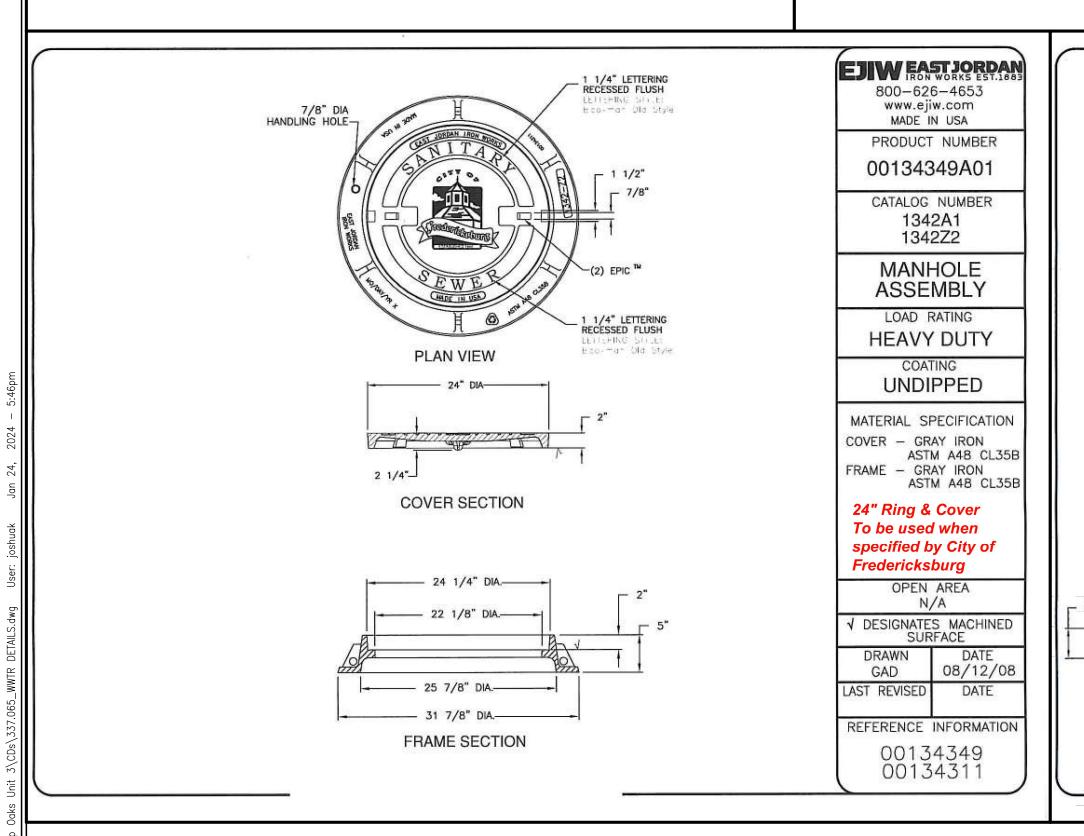
EVIEWED BY: **ZJ**

HMT PROJECT NO.:



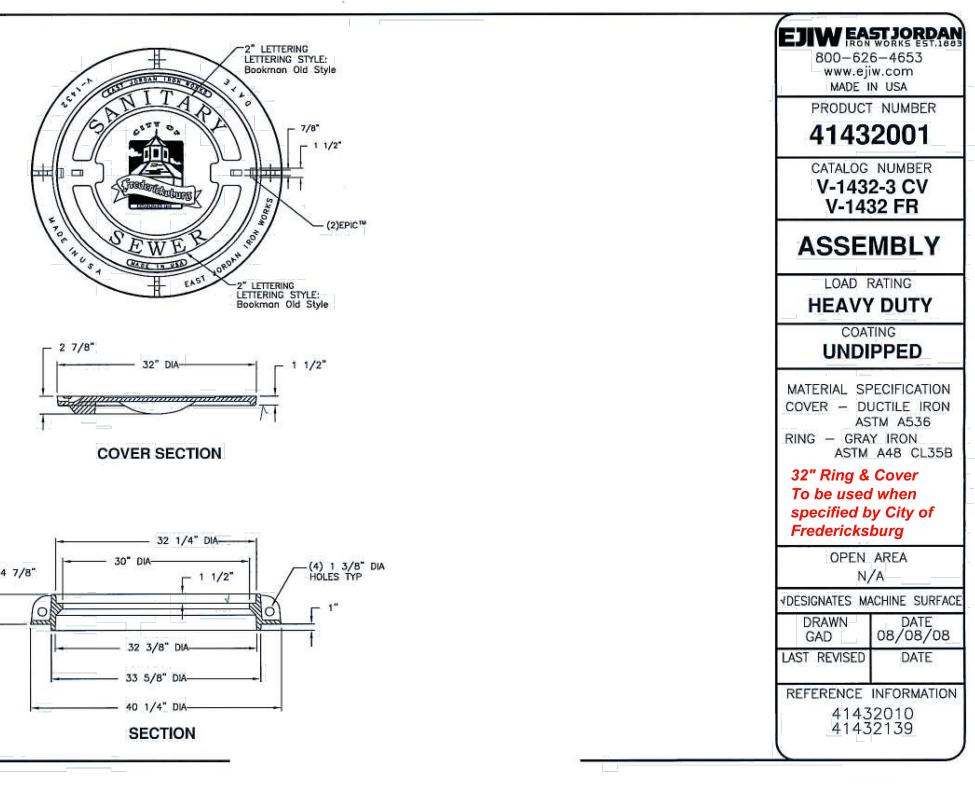


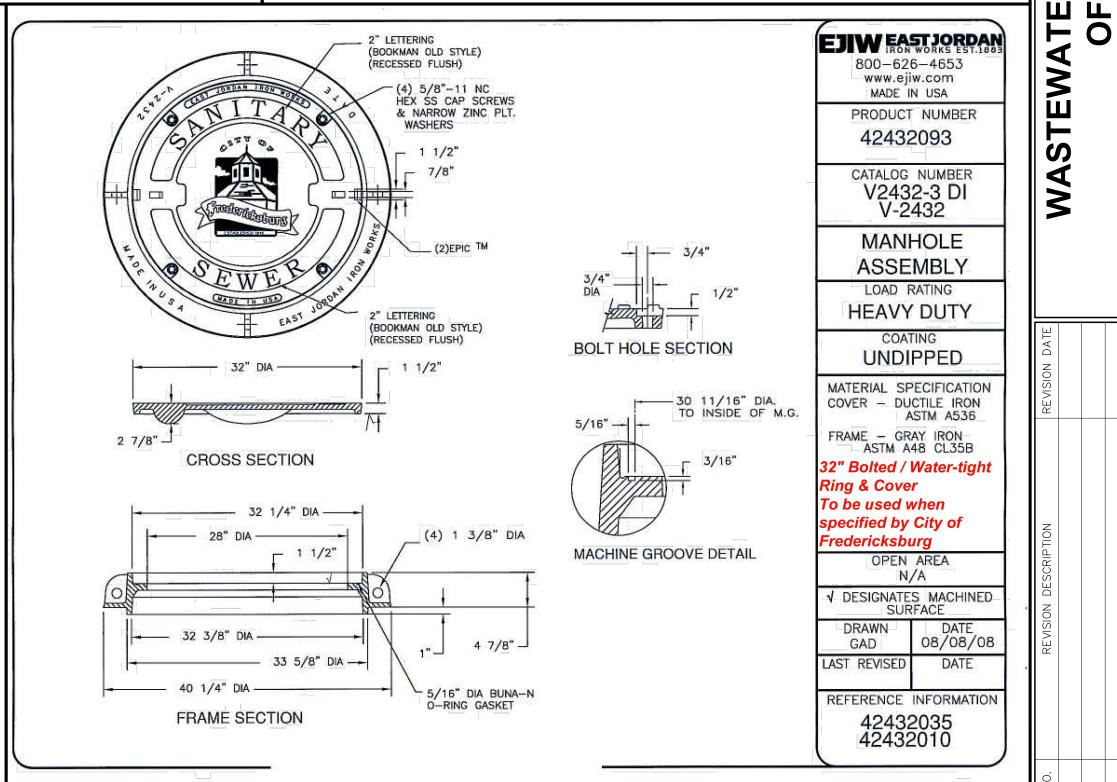


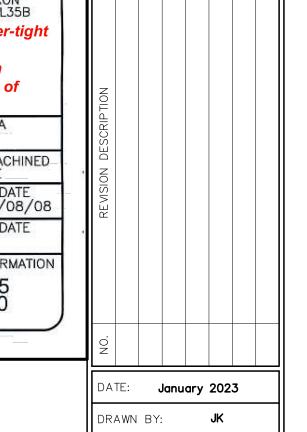


Sever pip connecting to manholes above the lowest sever shall project two inches (2") from the inside wall and be installed with a joint a minimum of six inches (5") and a maximum of

#4 bars at 12" O.C. each way







DESIGNED BY: RS REVIEWED BY: CC HMT PROJECT NO.: 337.065

> SHEET C7.09

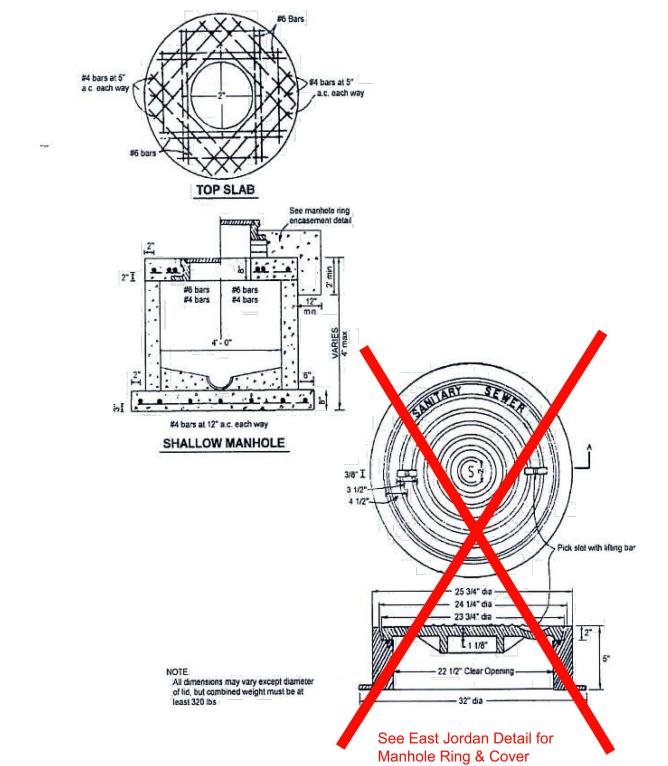
FRIENDSHIP OAKS, FREDERICKSBURG,

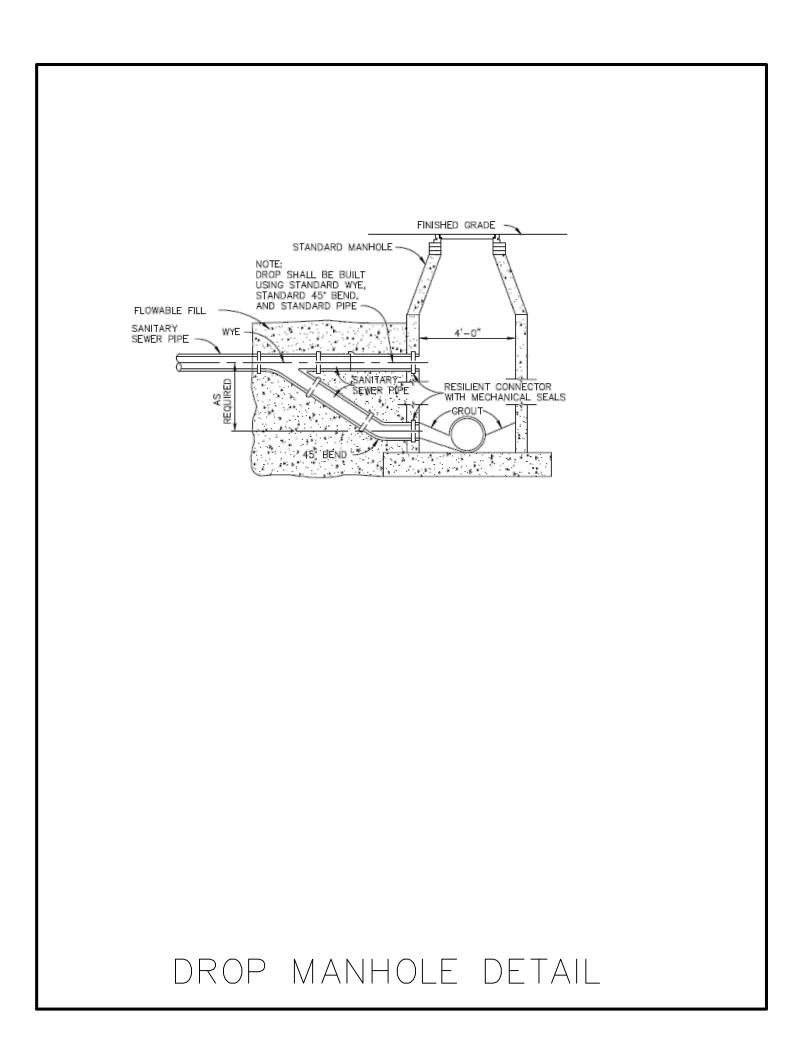
Class A Concrete 3,000 PSI in 28

COLUMN TO THE PROPERTY OF THE PARTY OF THE P

Aminimum of two and a maximum of four throat rings

shall be used at each manhale in newor existing streets.





■ 290 S. CASTELL AVE., STE. 100 NEW BRAUNFELS, TX 78130 TBPELS FIRM F-10961 TBPELS FIRM 1053600





WATER DETAILS OF 2)

OF 2)
FRIENDSHIP DAKS LINIT

REVISION DESCRIPTION REVISION DATE

DATE: AUGUST 2024

DRAWN BY: JK

DESIGNED BY: RS

REVIEWED BY: ZJ

HMT PROJECT NO.:

HMT PROJECT NO.: 337.065

SHEET C7.10

