



CITY OF ANGLETON
CITY COUNCIL AGENDA
120 S. CHENANGO STREET, ANGLETON, TEXAS 77515
TUESDAY, APRIL 26, 2022 AT 6:00 PM

Mayor | Jason Perez
Mayor Pro-Tem | John Wright
Council Members | Cecil Booth, Mark Gongora, Mikey Svoboda, Travis Townsend
City Manager | Chris Whittaker
City Secretary | Frances Aguilar

NOTICE IS HEREBY GIVEN PURSUANT TO V.T.C.A., GOVERNMENT CODE, CHAPTER 551, THAT THE CITY COUNCIL FOR THE CITY OF ANGLETON WILL CONDUCT A MEETING, OPEN TO THE PUBLIC, ON TUESDAY, APRIL 26, 2022 AT 6:00 P.M., AT THE CITY OF ANGLETON COUNCIL CHAMBERS LOCATED AT 120 S. CHENANGO STREET ANGLETON, TEXAS 77515.

DECLARATION OF A QUORUM AND CALL TO ORDER

PLEDGE OF ALLEGIANCE

INVOCATION

CITIZENS WISHING TO ADDRESS CITY COUNCIL

The Presiding Officer may establish time limits based upon the number of speaker requests, the length of the agenda, and to ensure meeting efficiency, and may include a cumulative time limit. Citizens may speak at the beginning or at the time the item comes before council in accordance with Texas Government Code Section 551.007. No Action May be Taken by the City Council During Public Comments.

CEREMONIAL PRESENTATIONS

1. Presentation of Angleton Police Officer of the Year by the Exchange Club of Angleton.

CONSENT AGENDA

All of the following items on the Consent Agenda are considered to be self-explanatory by the Council and will be enacted with one motion. There will be no separate discussion of these items unless requested by the Mayor or a Council Member; in which event, the item will be removed from the consent agenda and considered separately.

2. Discussion and possible action to award a contract to Crowder Gulf, LLC for the debris management and hauling for the purpose of disaster debris clearance and removal and authorize the City Manager to execute the agreement upon legal review.
3. Discussion and possible action to award a contract to HTI Construction, LLC for the 2021 Street Bond Project – Phase 1: Ridgecrest Street and Robinhood Lane and authorize the City Manager to execute the agreement upon legal review.

4. Discussion and possible action to award a contract to Sustanite Support Services, LLC for the Freedom Park Groundwater Treatment System project and authorize the City Manager to execute the agreement upon legal review.
5. Discussion and possible action on a waiver of the preliminary acceptance of public improvements and public improvement acceptance for Phase Two of the Riverwood Ranch Subdivision.

REGULAR AGENDA

6. The discussion and possible action on the Enterprise rental fleet program.
7. Discussion and possible action on an agreement with i9 Sports Association to provide youth sports leagues, clinics, and camps and authorize the City Manager to execute the agreement upon legal review.
8. Discussion and possible action on an ordinance amending the Code of Ordinances of the City of Angleton, Texas, by amending and revising Chapter 8.5 Food and Food Establishments Article I. In General, Section 8.5-2. Definitions, Article II. Permit, Section 8.5-10. Required, Section 8.5-11. Duration, Article III. Inspections, Section 8.5-20. Annual Inspections, Reinspections, and New Inspections, Article V. Temporary and Mobile Food Establishments, Section 8.5-62. Mobile Food Establishments; Generally and Sec.8.5-63. Unrestricted and Restricted Mobile Food Unit Regulations As Contained in "Exhibit A"; adopting Sec 8.5-66. Mobile Food Courts as contained in "Exhibit B"; providing for the regulation of food and food establishments; providing a penalty; providing for severability; providing for repeal; and providing an effective date.
9. Discussion on the FY 2022 - 2023 proposed budget schedule and budget direction and guidelines.
10. Discussion and possible action on the Brazosport Water Authority (BWA) water supply rate increase.

ADJOURNMENT

If, during the course of the meeting and discussion of any items covered by this notice, City Council determines that a Closed or Executive Session of the Council is required, then such closed meeting will be held as authorized by Texas Government Code, Chapter 551, Section 551.071 - consultation with attorney; Section 551.072 - deliberation regarding real property; Section 551.073 - deliberation regarding prospective gift; Section 551.074 - personnel matters regarding the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee; Section 551.076 - deliberation regarding security devices or security audit; Section 551.087 - deliberation regarding economic development negotiations; Section 551.089 - deliberation regarding security devices or security audits, and/or other matters as authorized under the Texas Government Code. If a Closed or Executive Session is held in accordance with the Texas Government Code as set out above, the City Council will reconvene in Open Session in order to take action, if necessary, on the items addressed during Executive Session.

CERTIFICATION

I, Frances Aguilar, City Secretary, do hereby certify that this Notice of a Meeting was posted on the City Hall bulletin board, a place convenient and readily accessible to the general public at all times and to the City's website, www.angleton.tx.us, in compliance with Chapter 551, Texas Government Code. The said Notice was posted on the following date and time: Friday, April 22, 2022 by 6:00 p.m. and remained so posted continuously for at least 72 hours proceeding the scheduled time of said meeting.

/S/ Frances Aguilar

Frances Aguilar, TRMC, MMC
City Secretary

In compliance with the Americans with Disabilities Act, the City of Angleton will provide reasonable accommodations for persons attending City Council meetings. The facility is wheelchair accessible and accessible parking spaces are available. Please contact the City Secretary at 979-849-4364, extension 2115 or email citysecretary@angleton.tx.us.



AGENDA ITEM SUMMARY FORM

MEETING DATE: 04/26/2022

PREPARED BY: Glenn LaMont

AGENDA CONTENT: Discussion and possible action on Resolution No. 20220426-000 awarding a Debris Management/Hauling contract to Crowder Gulf LLC, for the purpose of disaster debris clearance and removal, repealing conflicting ordinances and resolutions; including a severability clause; and establishing an effective date. (LaMont)

AGENDA ITEM SECTION: Consent Agenda

BUDGETTED AMOUNT: N/A **FUNDS REQUESTED:** None at this time

FUND: N/A

EXECUTIVE SUMMARY:

Awarding a Debris Management/Hauling contract to Crowder Gulf, LLC.

RECCOMENDATION:

Staff recommends council approving this Resolution.

Contract for Disaster Debris Clearance and Removal Services

THIS CONTRACT is made this the 26 day of April, 2022, by and between **Crowder Gulf** (herein referred to as "**Contractor**") and the **City of Angleton** a political subdivision of the **State of Texas** herein referred to as "**City**").

RECITALS

WHEREAS, it is foreseen that it may be in the public interest to provide for the expedient removal of storm debris within the corporate limits of the **City** plus recovery Technical Assistance to the appointed and elected officials resulting from a natural or manmade event; and

WHEREAS, The **City** has in the past suffered the full force and effects of major storms and the resulting destruction brought upon **City** by such storms or manmade disasters; and

WHEREAS, the Public Health and Safety of all the citizens will be at serious risk; and

WHEREAS, the immediate economical recovery of The **City** and its citizens is a major concern and the primary priority for recovery; and

WHEREAS, the availability of experienced prime storm debris contractors may be severely limited; and

WHEREAS, **Contractor** has the experience, equipment, manpower, permits and licenses to perform all storm related debris services; and

WHEREAS, the **City** and the **Contractor** have agreed to the Scope of Services, prices, terms and conditions as set out in this Contract; and

THEREFORE, in considerations acknowledged by both parties, said parties do agree to the following stipulations and conditions.

1.0 SERVICES

1.1 Scope of Contracted Services:

The **Contractor** shall provide all expertise, personnel, tools, materials, equipment, transportation, supervision and all other services and facilities of any nature necessary to execute, complete and deliver the timely removal and lawful disposal of all **eligible storm-generated debris (herein referred to as "debris")**, including hazardous and industrial waste materials and within the time specified in this Contract. Emergency push, debris removal and demolition of structures will be limited to: 1) that which is determined to eliminate immediate threats to life, public health, and safety; 2) that which has been determined to eliminate immediate threats of significant damage to improved public or private property; and 3) that which is considered essential to ensure the economic recovery of the affected community to the benefit of the community at large.

These contracted services shall provide for the cost effective and efficient removal and lawful disposal of debris accumulated on all public, residential and commercial properties, streets, roads, other rights-of-way and public-school properties, including any other locally owned facility or site as may be directed by the **City**. Contracted services will only be performed when requested and as designated by the **City**.

The Contractor shall load and haul the debris from within the legal boundaries of the municipality to a site(s) specified by the **City** as set out in Section 5.1 of this Contract.

1.2 Emergency Push / Road Clearance:

The Contractor shall accomplish the cutting, tossing and pushing of debris from the primary transportation routes as identified by and directed by the **City**. This operational aspect of the scope of contracted services shall be for the first 72 hours after an event and will be billed on a time and material basis. Once this task is accomplished, the following additional tasks will begin as required.

1.3 Right-of-Way (ROW) Removal:

The Contractor shall remove all debris from the ROW of the **City** when directed to do so by the **City**. The Contractor shall use reasonable care not to damage any **City** or private property not already damaged by the storm event. Should any property be damaged due solely to negligence on the part of the Contractor, the **City** may either bill the Contractor for the damages or withhold funds due to the Contractor in an amount not to exceed the dollar amount of compensatory damages that the landowner is able to prove.

1.4 Right-of-Entry (ROE) Removal (if implemented by the City):

The Contractor will remove ROE debris from private property with due diligence, as directed by the **City**. The Contractor also agrees to make **reasonable** efforts to save from destruction items that the property owners wish to save, (i.e., trees, small buildings, etc.). The Contractor will exercise caution when working around public utilities (i.e., gas, water, electric, etc.). Every effort will be made by the **City** to mark these utilities, but the **City** does not warrant that all will be located before debris removal begins, nor does the Contractor warrant that utility damages will not occur as a result of properly conducting the contracted services.

1.5 Demolition of Structures (if implemented by the City):

The Contractor will remove structures designated for removal by and at the direction of the **City**. The Contractor agrees to remove in a timely manner all structures as determined by the **City** as set out in Section 1.1 of this Contract.

1.6 Private Property Waivers:

The **City** will secure all necessary permissions, waivers and Right-of-Entry Agreements from property owners as prescribed by Texas law and Government as defined herein for the removal of debris or demolition of structures from residential and commercial properties, as set out in Sections 1.4 and 1.5 above.

2.0 PERFORMANCE OF SERVICES

2.1 Description of Service:

The Contractor agrees to perform the contracted services in a professional and workmanlike manner and in compliance with all applicable laws, ordinances, rules, regulations and permits. Only the highest quality workmanship will be acceptable. Services, equipment, and workmanship not conforming to the Contract documents or meeting the approval of the **City** may be rejected. Replacements or rework, as required, will be accomplished at no additional cost to the **City**.

2.2 Cost of Services:

The Contractor shall bear the costs of performing all contracted services hereunder, as directed by the **City**, including but not limited to that which is set out in Section 1.0, plus applicable permit and license fees and all maintenance costs required to maintain its vehicles and other equipment in a condition and manner adequate to accomplish and sustain all contracted services as set out in this Contract.

2.3 Matters Related to Performance:

2.3.1 Subcontractor(s):

The Contractor may utilize the service of subcontractors and shall be responsible for the acts or omissions of its subcontractors to the same extent the Contractor is responsible for the acts and omissions of its employees. The Contractor shall ensure that all its subcontracts have and carry the same major provisions of this Contract and that the work of their subcontractors is subject to said provisions. Nothing contained in this Contract shall create any contractual relationship between any subcontractor and the **City**. The Contractor shall supply the names and addresses of subcontractors and materials suppliers when requested to do so by the **City**.

2.3.2 Indemnification:

The Contractor agrees to indemnify, hold harmless and defend the **City** from and against any and all liabilities, suits, actions, legal proceedings, claims, demands, damages, costs and expenses (including attorney's fees) rising out of any act or omission of the Contractor, its agents, subcontractors or employees in the performance of this Contract, but excluding any damage, injury, or loss to person or property solely the result of the **City's** negligent, reckless, or willful acts or omissions or those of its employees, agents, or other contractors or subcontractors. In no event shall Contractor's liability hereunder exceed the dollar amount paid or to be paid to Contractor for its services under this Contract.

2.3.3 Insurance(s):

The Contractor agrees to keep the following Insurance in full force and effect during the term of this Contract. The Contractor must also name the **City**, as additional insured, while working within the boundaries of the **City**.

2.3.4 Worker's Compensation:

- ◆ \$1,000,000 per occurrence. Name the **City** as an Additional Insured and waive subrogation.

2.3.5 Automobile Liability:

- ◆ Combined Single Limit for Bodily Injury and Property \$1,000,000 per occurrence or its equivalent. Name the **City** as an Additional Insured and waive subrogation.

2.3.6 Comprehensive General Liability:

- ◆ Combined Single Limit for Bodily Injury and Property Damage of \$1,000,000 per occurrence; with an aggregate of \$3,000,000 or its equivalent. Name the **City** as an Additional Insured and waive subrogation.

2.3.7 Insurance Cancellation / Renewal:

The Contractor will notify the **City** at least thirty (30) days in advance of cancellation, non-renewal, or adverse change to the required insurance. New certificates of insurance are to be provided to the **City** at least ten (10) days following coverage renewals or changes.

3.0 STANDARDS OF PERFORMANCE**3.1 Contractor Representative:**

The Contractor shall have a knowledgeable and responsible Contractor Representative Report to the **City's** designated Contract Representative within 24 hours following the activation of this contract. The Contractor Representative shall have the authority to implement all actions required to begin the performance of contracted services as set out in this Contract and the Contractor's General Operations Plan.

3.2 Mobilization:

When the written Notice to Proceed has been received by the Contractor or the on-site Contractor Representative, he/she will make all necessary arrangements to mobilize a minimum of 50% of the required resources within 48 hours and 100% of the required resources within 96 hours to commence and conduct these contracted services.

3.3 Payment and Performance Bonds: Contractor shall provide payment and performance bonds no later than 10 days following activation of contract.**3.4 Time to Complete:**

The Contractor shall complete all directed work as set out in Section 1.0 of this Contract within an agreed upon number of days, determined once extent of damage has been assessed. At no time should this exceed 90 working days and in accordance with Section 5.8 of this Contract.

3.5 Completion of Work:

The Contractor shall be responsible for removal of all debris up to the point where remaining debris can only be described as storm litter and additional collection can only be accomplished using hand labor.

3.5.1 Extensions (optional):

In as much as this is a “time is of the essence” based Contract, the commencement of contracted services will be as set out in Section 3.2. If the completion of this Contract is delayed by actions of the **City**, then and in such event the time of completion of this Contract shall be extended for such additional time within which to complete the performance of the Contract as is required by such delay. This Contract may be extended by mutual written consent of both the **City** and the Contractor for reasons of additional time, additional services, and additional areas of work.

3.6 Term of Contract:

The term of the Contract shall be for three (3) consecutive years beginning on the date of acceptance by and signatures of both the **City** and Contractor, whichever comes later.

3.7 Contract Renewal:

This Contract may be renewed for two (2) additional one (1) year periods after a written concurrence of both parties on any negotiated changes to the terms and specifications contained in this Contract. Section 7.0 of this Contract may be reviewed and amended on an annual basis, at which time amended unit costs may be submitted by the Contractor to the **City** to reflect the current disaster recovery market value of all contracted services in this Contract. Such amendments shall become part of this Contract after both parties sign any such written amendment(s) as required by Section 8.3 of this Contract.

3.8 Contract Termination:

This Contract shall terminate upon (six) 6 months written notice from either party and delivered to the other party, as set out in Section 8.1 of this Contract.

4.0 GENERAL RESPONSIBILITIES

4.1 Other Agreements:

The **City** may be required to enter into agreements with Federal or State agencies for disaster relief. The Contractor shall be bound by the terms and conditions of such agreements. The **City** shall provide Contractor with copies of any such federal or state agreements within 7 business days of the execution thereof.

4.2 City Obligations:

The **City** shall furnish all information and documents necessary for the commencement of contracted services, including but not limited to a valid written Notice To Proceed. A representative will be designated by the **City** to be the primary point of contact for inspecting the work and answering any on site questions prior to and after activation of this Contract via a written Notice To Proceed. The **City** is responsible for issuing all Public Service Announcements (PSA) to advise citizens and agencies of the available debris services. The Contractor may assist the **City** with the development of debris-based PSA(s), if requested.

4.3 Conduct of Work:

The Contractor shall be responsible for planning and conducting all operations in a satisfactory workmanlike manner. The Contractor shall exhibit respect for the citizens and their individual private properties. All operations shall be conducted under the review of a **City** Representative. The Contractor will supervise and direct all contracted services. The Contractor is solely responsible for the means, methods, techniques, safety program and procedures. The Contractor will employ and maintain on the work site a qualified supervisor who shall have full authority to act on behalf of the Contractor and all communications given to the supervisor by the **City's** Authorized Representative shall be as binding as if given to the Contractor.

4.4 Damages:

The Contractor shall be responsible for conducting operations in such a manner as to cause the minimum damage possible to existing public, private and commercial property and infrastructure. Contractor shall also be responsible for any property damages solely caused or the result of the negligence of its employees and subcontractors as set out in Sections 1.2 through 1.5 of this Contract. However, in no event shall the Contractor's liability hereunder exceed the dollar amount paid or to be paid to Contractor for its services under this Contract.

4.5 Other Contractor(s):

The Contractor shall acknowledge the presence of other contractors involved in disaster response and recovery activities by the federal, state and local government and of any private utility, and shall not interfere with their work.

4.6 Ownership of Debris (optional):

All debris, including regulated hazardous waste, shall become the property of the Contractor for removal and lawful disposal. The debris will consist of, but not limited to vegetative, construction and demolition, white goods and household solid waste.

4.7 Disposal of Debris:

Unless otherwise directed by the **City**, the Contractor shall be responsible for determining and executing the method and manner for lawful disposal of all eligible debris, including regulated hazardous waste. The primary location of the reduction and disposal site(s) shall be determined by the **City** and Contractor. Other sites may be utilized as directed or approved by the **City**.

4.8 Federal-Aid Requirements:

The Contract provisions of the Federal Highway Administration's Form **FHWA-1273 (Appendix C)**, titled *"Required Contract Provisions – – Federal-Aid Construction Contracts"* and **FEMA FACT SHEET 9580.214**, *"Debris Removal on Federal-Aid Highways"*, shall apply to all work performed by the Contractor or any of its Subcontractors.

4.9 Compliance with Federal Laws:

This Contract is subject to Federal Laws. The Federal laws applicable to and incorporated into this Contract are 2 C.F.R. 200.326 as described in Appendix II to Part 200 – Contract Provisions for non-Federal Entity Contracts Under Federal Awards, FEMA Public Assistance Program and Policy Guide, FEMA 325 Debris Management Guide, FEMA Recovery Policy 9500 series and any other Federal rule, regulation or policy relating to disaster debris.

Appendix II to Part 200—Contract Provisions for Non-Federal Entity Contracts Under Federal Awards

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Contracts for more than the simplified acquisition threshold currently set at \$150,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

(B) All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be affected and the basis for settlement.

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 CFR part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

(E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of “funding agreement” under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.

(G) Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended—Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

(J) See §200.322 Procurement of recovered materials.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75888, Dec. 19, 2014]

5.0 **GENERAL TERMS AND CONDITIONS**

5.1 **Geographic Assignment:**

The geographic boundary for work by the Contractor's crews shall be as directed by the **City** and will be limited to properties located within the **City** legal boundaries.

5.2 **Multiple, Scheduled Passes (optional):**

The Contractor shall make scheduled passes at the direction of the **City** or unscheduled passes of each area impacted by the storm event. The **City** shall direct the interval timing of all passes. Sufficient time shall be permitted between subsequent passes to accommodate reasonable recovery and additional debris placement at the ROW by the citizens and the **City**.

5.3 **Operation of Equipment:**

The Contractor shall operate all trucks, trailers and all other equipment in compliance with all applicable federal, state and local rules and regulations. Equipment shall be in good working condition. All loading equipment shall be operated from the road, street or ROW using buckets or boom and grapple devices to collect and load debris. No equipment shall be allowed behind the curb or outside of the public ROW unless otherwise directed by the **City**. Should operation of equipment be required outside of the public ROW, the **City** will provide a Right-of-Entry Agreement, as set out in Section 1.6 of this Contract.

5.4 **Certification of Load Carrying Capacity:**

The Contractor shall submit to the **City** a certified report indicating the type of vehicle, make and model, license plate number and trailer VIN number, assigned debris hauling number and measured maximum volume, in **cubic yards**, of the load bed of each piece of equipment to be utilized to haul debris.

The measured volume of each piece of equipment shall be calculated from the actual physical measurement performed by the **City** and Contractor Representative(s). A standard measurement form certifying actual physical measurements of each piece of equipment shall be an attachment to the certified report(s) submitted to the **City**.

5.5 Vehicle Information:

The maximum load capacity of each hauling vehicle will be rounded to the nearest whole **cubic yard (CY)**. (Decimal values of .1 through .4 will be rounded down and decimal values of .5 through .9 will be rounded up.) The measured maximum load capacity (as adjusted) of any vehicle load bed will be the same as shown on the trailer measurement form and painted on each numbered vehicle or piece of equipment used to haul debris. All vehicles or equipment used for hauling will have and use a Contractor approved tailgate, and sideboards will be limited to those that protect the load area of the trailer.

5.6 Security of Debris During Hauling:

The Contractor shall be responsible for the security of debris on/in each vehicle or piece of equipment utilized to haul debris. Prior to leaving the loading site(s), the Contractor shall ensure that each load is secure and trimmed so that no debris extends horizontally beyond the bed of the equipment in any direction. All loose debris shall be reasonably compacted and secured during transport. As required, the Contractor will survey the primary routes used by the Contractor and recover fallen or blown debris from the roadway(s).

5.7 Traffic Control:

The Contractor shall mitigate impact on local traffic conditions to all extents possible. The Contractor is responsible for establishing and maintaining appropriate traffic control in accordance with the latest Manual of Uniform Traffic Control Devices. The Contractor shall provide sufficient signing, flagging and barricading to ensure the safety of vehicular and pedestrian traffic at all debris removal, reduction and disposal site(s).

5.8 Work Days/Hours:

The Contractor may conduct debris removal operations from sunup to sundown, seven days per week. Any mechanical, debris reduction operations or burning operations shall be conducted in accordance with Texas Commission on Environmental Quality (TCEQ) directives. Adjustments to workdays and work hours shall be as directed by the **City** following consultation and notification to the Contractor.

5.9 Hazardous and Industrial Wastes:

The Contractor shall set aside and reasonably protect all hazardous or industrial materials encountered during debris removal operations for collection and disposal in accordance with the Contractor's Hazardous and Industrial Materials Cleanup and Disposal Plan. The Contractor will build, operate and maintain a Hazardous Waste and Industrial Material Storage area until proper disposal of such waste is feasible. The Contractor may use the subcontracting services of a firm specializing in the management and disposal of such materials and waste, if/when directed by the **City**.

5.10 Stumps:

All hazardous/eligible stumps identified by the **City** will be pulled, loaded, transported, stored, reduced and disposed in accordance with the standards of this Contract. All stumps will be documented, invoiced and paid in accordance with Stump Conversion Table – Diameter to Volume Capacity.

5.11 Utilizing Local Resources:

The Contractor shall, to the extent possible, give priority to utilizing resources within the **City**. Debris Contract local preferences will include, but not limited to, procurement of services, supplies and equipment, plus awarding service subcontracts and employment to the local work force.

5.12 Work Safety:

The Contractor shall provide and enforce a safe work environment as prescribed in the Occupational Safety and Health Act of 1970, as amended. The Contractor will provide such safety equipment, training and supervision as may be required by the **City** or Government. The Contractor shall ensure that its subcontracts contain a similar safety provision.

5.13 Inspection and Testing:

All debris shall be subject to adequate inspection by the **City** or any public authority in accordance with generally accepted standards to ensure compliance with the Contract and applicable federal, state, and local laws. The **City** will, always, have access to all work sites and disposal areas. In addition, authorized representatives and agents of the Government shall be permitted to inspect all work, materials, invoices and other relevant records and documentation.

5.14 Other Agencies:

The term "Government" as used in this Contract refers to those governmental agencies, which may have a regulatory or funding interest in this Contract.

6.0 REPORTS, CERTIFICATIONS and DOCUMENTATION**6.1 Accountable Debris Load Forms:**

The **City** shall accept the serialized copy of the Contractor's debris reporting ticket(s) as the certified, original source documents to account for the measurement and accumulation of the volume of debris delivered and processed at the reduction and disposal site(s). The serialized ticketing system will also be used in the event of additional debris handling for volume reduction and the possible requirement for a debris transfer station(s). These tickets shall be used as the basis of any electronic generated billing or report(s).

6.2 Reports:

The Contractor shall submit periodic, written reports to the **City** as requested or required, detailing the progress of debris removal and disposal. These reports may include, but not limited to:

6.2.1 Daily Reports:

The daily reports may detail the location where passes for debris removal were conducted, the quantity of debris (by type) removed and disposed, and the total number of personnel crews engaged in debris management operations and the number of grinders, chippers and mulching machines in operation. The Contractor will also report damages to private property caused by the debris operation or damage claims made by citizens and such other information as may be required to completely describe the daily conduct of the Contractor's operations.

6.2.2 Weekly Summaries:

A summary of all information contained in the daily reports as set out in Section 6.2.1 of this Contract or in a format required by the **City**.

6.2.3 Report(s) Delivery:

The scheduling, point of delivery and receiving personnel for the debris operations report(s) will be directed by the **City** in consultation with the Contractor.

6.2.4 Final Project Closeout:

Upon final inspection and closeout of the project by the **City**, the Contractor shall prepare and submit a detailed description of all debris management activities to include, but not limited to the total volume, by type of debris hauled, reduced, or disposed, plus the total cost of the project invoiced to the **City**. If requested, any other additional information as may be necessary to adequately document the conduct of the debris management operations for the **City** and Government.

6.3 Additional Supporting Documentation:

The Contractor shall submit sufficient reports and documentation for debris loading, hauling, disposal, and load capacity measurements as may reasonably be required by the **City** and Government to support requests for debris project reimbursement from external funding sources.

6.4 Report Maintenance:

Contractor will be subject to audit by federal, state and local agencies pursuant to this Contract. The Contractor will maintain all reports, records, debris reporting tickets and contract correspondence for a period of not less than three (3) years.

6.5 Contract File Maintenance:

The Contractor will maintain this Contract and the invoices that are generated for the contracted services for a period of five (5) years or the period of standard record retention of the **City**, whichever is longer.

7.0 UNIT PRICES and PAYMENTS**7.1 See Fee Schedule - Attached****7.2 Billing Cycle:**

The Contractor shall invoice the **City** on a 30-day basis reflecting the close of business on the last working day of the billing period. Serialized debris reporting tickets and disposal site verification of the actual cubic yardage for each load of debris or itemized stumps will support all invoices.

7.3 Payment Responsibility:

The **City** agrees to accept the Contractor's invoice(s) and supporting documentation as set out in Section 6.3 of this Contract and process said invoices for payment within 15 business days of the receipt thereof. The **City** will advise the Contractor within five (5) working days of receiving any debris service invoice that requires additional information for approval to process for payment.

7.4 Ineligible Work:

The Contractor will not be paid for the removal, transportation, storage, reduction and disposal of any material or stumps as may be determined by the **City** or Government as ineligible debris.

7.4.1 Eligibility Inspections:

The Contractor and **City** will inspect each load to verify the contents are in accordance with the accepted definition of eligible debris, as set out in Section 1.1 of this Contract.

7.4.2 Eligibility Determinations:

If any load is determined to contain material that does not conform to the definition of eligible debris, the load will be ordered to be deposited at another landfill or receiving facility and no payment will be allowed for that load and the Contractor will not invoice the **City** for such loads.

7.5 Unit Price/Service Negotiations:

Unknown and unforeseen events or conditions may require an adjustment to the stated unit prices in Section 7 of this Contract. Any amendments, extensions or changes to the scope of contracted services or unit prices are subject to full negotiation(s) between the **City** and the Contractor and subject to the review of the Government and must comply with Section 8.3 of this Contract.

7.6 Specialized Services:

The Contractor may invoice the **City** for costs incurred to mobilize and demobilize specialized equipment required to perform services in addition to those specified under Section 1.0 of this Contract. Additional specialized services will only be performed if/when directed by the **City**. The rate for specialized mobilization and demobilization shall be fair and reasonable as determined by the **City**.

8.0 MISCELLANEOUS**8.1 Notice:**

Whenever in this Contract it is necessary to give notice or demand by either party to the other, such notice or demand shall be given in writing and forwarded by certified or registered mail and addressed as follows:

Contractor: Crowder Gulf
5629 Commerce Blvd. E
Mobile, AL 36619
800-992-6207
jramsay@crowdergulf.com

City: City of Angleton
Frances Aguilar, City Secretary
121 South Velasco St.
Angleton, TX 77515
979-849-4364 x 2137
faguilar@angleton.tx.us

8.2 Applicable Law:

The laws of the **State of Texas** shall govern this Contract. Any and all legal action necessary to enforce the Contract will be held in Brazoria County, Texas, and the Contract shall be interpreted by the laws of Texas.

8.3 Entire Contract/Amendments:

This Contract (including any schedules or exhibits attached hereto) constitutes the entire Contract and understanding between the parties with respect to the matters contained herein. This Contract supersedes any prior contracts, negotiations, proposals, agreements, and understandings, whether verbal or written, relating to the subject matter hereof. This Contract may be modified, amended or extended only by a written instrument executed by both parties.

8.4 Waiver:

In the event one of the parties waives a default by the other, such a waiver shall not be construed or deemed to be a continuing waiver of any subsequent breach or default of the other provisions of this Contract, by either party.

8.5 Severability:

If any provision of this Contract is deemed or becomes invalid, illegal, or unenforceable under the applicable laws or regulations of any jurisdiction, such provision will be deemed amended to the extent necessary to conform to applicable laws or regulations. If it cannot be so amended without materially altering the intention of the parties, it will be stricken, and the remainder of this Contract will remain in full force and effect.

IN WITNESS WHEREOF, the Contractor has caused this Contract to be signed in its corporate name by its authorized representative and the **City** has caused this Contract to be signed in its legal name by persons authorized to execute said Contract as of the day and year first written above on page one.

Crowder Gulf**City of Angleton, TX**

By: _____

By: _____

Name:**Name:** Chris Whittaker

Title: _____

Title: City Manager

ATTEST:

ATTEST:

Name:_____
Name:

DISASTER DEBRIS MANAGEMENT/HAULING ATTACHMENT A BID TABLE					
	Item/Description	Estimated			
		Quantity	Unit	Unit Price	Extension
1	1.0 Pickup and/or separation on Public Property and Public Rights-of-Way and hauling to a designated debris management site or landfill facility 20 or less miles away (one-way miles). (Trips with one-way miles in excess of 20 miles compensated at the rate quoted in Items 2.0, 3.0 or 4.0).	1,000,000	CY	\$7.85	\$7,850,000.00
2	2.0 Pickup and/or separation on Public Property or Public Rights-of-Way and hauling to a designated debris management site or landfill facility more than 20-25 miles away (one-way miles). (Trips with one-way miles in excess of more than 20-25 miles compensated at the rate quoted in Items 3.0 or 4.0).	1,000,000	CY	\$8.90	\$8,900,000.00
3	3.0 Pickup and/or separation on Public Property or Public Rights-of-Way and hauling to a designated debris management site or landfill facility 25 miles or greater (one-way miles).	1,000,000	CY	\$9.60	\$9,600,000.00
4	4.0 Loading, hauling and dumping of uprooted stumps from trees that are 25 to 36 inches with root ball.	500	Each	\$200.00	\$100,000.00

5	5.0 Loading, hauling and dumping of uprooted stumps from trees that are 37-48 inches with root ball.	100	Each	\$300.00	\$30,000.00
6	6.0 Loading, hauling and dumping of uprooted stumps from trees that are 49 inches and larger with root ball.	25	Each	\$400.00	\$10,000.00
7	7.0 Cutting and dropping of hazardous hanging limbs over 2 inches in diameter.	240,000	Each Tree	\$65.00	\$15,600,000.00
8	8.0 Removal of hazardous trees 6" – 12" in diameter at breast height.	1,000	Each	\$40.00	\$40,000.00
9	9.0 Removal of hazardous trees 13" – 24" in diameter at breast height.	500	Each	\$95.00	\$47,500.00
10	10.0 Removal of hazardous trees 25" – 36" in diameter at breast height.	100	Each	\$195.00	\$19,500.00
11	11.0 Removal of hazardous trees 37" or larger in diameter.	50	Each	\$300.00	\$15,000.00
12	12.0 Site operation, debris acceptance, pile management, volume reduction (by grinding) material loading for transport.	1,000,000	CY	\$4.95	\$4,950,000.00
	12.1 Site operation, debris acceptance, pile management, volume reduction (by incineration) material loading for transport.	1,000,000	CY	\$3.60	\$3,600,000.00
	12.2 Site operation, debris acceptance, pile management, volume reduction (by open burning) material loading for transport.	1,000,000	CY	\$2.65	\$2,650,000.00
	12.3 Site operation, debris acceptance, pile management, volume reduction (by compaction) material loading for transport.	1,000,000	CY	\$4.25	\$4,250,000.00
13	13.0 Haul-out of Reduced Debris to final disposal facility at a one-way distance of 0 – 20 miles.	1,000,000	CY	\$2.50	\$2,500,000.00
14	14.0 Haul-out of Reduced Debris to final disposal facility at a one-way distance of 20 miles or greater.	1,000,000	CY	\$3.50	\$3,500,000.00

15	15.0 Dead Animal Carcass hauling to a designated landfill or incinerator site (incinerator operation and disposal compensated under Part B).	100	Ton	\$400.00	\$40,000.00
16	16.0 Household Hazardous Waste	10,000	Pounds	\$7.25	\$72,500.00
17	17.0 White Goods	500	Each	\$45.00	\$22,500.00
18	18.0 Freon Removal	250	Each	\$40.00	\$10,000.00
19	19.00 E-Waste	500	Each	\$40.00	\$20,000.00
20	20.0 Additional Mileage Outside 20 Miles	Each Additional	Per CY Per Mile	\$0.25	\$0.25
GRAND EXTENSION TOTAL					\$63,827,000.25

PART B - EQUIPMENT AND LABOR RATES

Equipment Type	Hourly Equipment Rate	Hourly Labor Rate	Equipment Rate Plus Labor Rate = Total Hourly Rate	
Air Curtain Pit Burner w/operator	\$45.00	\$15.00	\$60.00	
Air Curtain Refractory Incinerator w/operator	\$85.00	\$15.00	\$100.00	
Bobcat Loader w/operator	\$95.00	\$30.00	\$125.00	
Bucket Truck w/operator	\$105.00	\$30.00	\$135.00	
Chipper/Mulcher (8" throat) w/operator	\$35.00	\$15.00	\$50.00	
Chipper/Mulcher (12" throat) w/operator	\$45.00	\$15.00	\$60.00	
Crash Truck w/Impact Attenuator w/operator	\$60.00	\$20.00	\$80.00	
Crew Foreman w/Cell Phone and Pickup w/operator	\$25.00	\$40.00	\$65.00	
Dozer, Tracked, D5 or similar w/operator	\$100.00	\$30.00	\$130.00	
Dozer, Tracked, D6 or similar w/operator	\$115.00	\$30.00	\$145.00	
Dozer, Tracked, D7 or similar w/operator	\$135.00	\$30.00	\$165.00	
Dozer, Tracked, D8 or similar w/operator	\$155.00	\$30.00	\$185.00	
Dump Truck, 18 CY-20 CY w/operator	\$65.00	\$30.00	\$95.00	

Dump Truck, 21 CY-30 CY w/operator	\$90.00	\$30.00	\$120.00	
Generator and Lighting w/operator	\$20.00	\$20.00	\$40.00	
Grader w/12' Blade w/operator	\$80.00	\$20.00	\$100.00	
Hydraulic Excavator, 1.5 CY w/operator	\$115.00	\$30.00	\$145.00	
Hydraulic Excavator, 2.5 CY w/operator	\$135.00	\$30.00	\$165.00	
Knuckleboom Loader w/operator	\$90.00	\$30.00	\$120.00	
Laborer w/Chain Saw w/operator	\$3.00	\$45.00	\$48.00	
Laborer w/small tools, traffic control, flag person	\$3.00	\$39.00	\$42.00	
Lowboy Trailer w/Tractor w/operator	\$110.00	\$30.00	\$140.00	
Log Skidder <i>w/operator</i>	\$100.00	\$25.00	\$125.00	
Mobile Crane (Adequate for hanging limbs/leaning trees) w/operator	\$195.00	\$30.00	\$225.00	
Operations Manager w/Cell Phone and Pickup w/operator	\$60.00	\$30.00	\$90.00	
Pickup Truck, .5 Ton w/operator	\$20.00	\$15.00	\$35.00	
Soil Compactor 81 HP+ <i>w/operator</i>	\$80.00	\$20.00	\$100.00	
Soil Compactor 80 HP w/operator	\$60.00	\$20.00	\$80.00	
Soil Compactor, Towed Unit w/operator	\$40.00	\$20.00	\$60.00	
Stump Grinder 30" diameter or less <i>w/operator</i>	\$130.00	\$30.00	\$160.00	
Stump Grinder greater than 30" diameter w/operator	\$155.00	\$30.00	\$185.00	
Traffic Control, Temporary Single Lane Closure w/operator	\$105.00	\$25.00	\$130.00	
Traffic Control, Temporary Road Closure w/operator	\$105.00	\$25.00	\$130.00	
Tree Climber s/Chainsaw w/operator	\$5.00	\$120.00	\$125.00	
Truck, Flatbed <i>w/operator</i>	\$35.00	\$25.00	\$30.00	
Tub Grinder, 800 to 1,000 HP w/operator	\$545.00	\$30.00	\$575.00	
Waste Collection Rear Loader Truck w/operator	\$130.00	\$30.00	\$160.00	
Water Truck w/operator	\$55.00	\$30.00	\$85.00	
Wheel Loader, 2.5 CY, 950 or similar w/operator	\$135.00	\$30.00	\$165.00	

Wheel Loader, 3.5 – 4.0 CY, 966 or similar w/operator	\$150.00	\$30.00	\$180.00	
Wheel Loader, 4.5 CY, 980 or similar w/operator	\$160.00	\$30.00	\$190.00	
Wheel Loader-Backhoe, 1.0 – 1.5 CY w/operator	\$115.00	\$30.00	\$145.00	
Other – Please Itemize				
Day Rate for a debris self loader 50+ CY Comp for non-declared events for maintenance debris removal			\$3,400.00 per Day Per Truck	
All disposal / tipping fees to be a pass through cost at no markup.				



AGENDA ITEM SUMMARY FORM

MEETING DATE: April 26, 2022

PREPARED BY: Chris Whittaker

AGENDA CONTENT: 2021 Street Bond Project- Package I

AGENDA ITEM SECTION: Regular Agenda

BUDGETED AMOUNT:
\$2,100,000

FUNDS REQUESTED:
\$1,660,385.00

FUND:N/A

EXECUTIVE SUMMARY:

The City of Angleton has recently opened bids for the Street Bond Project Package 1 (Ridgecrest and Robinhood). The low bidder was HTI Construction, LLC. HDR has discuss HTI capabilities and contacted representatives from previously completed construction projects. A Letter of Recommendation for the award of this contract is attached.

RECOMMENDATION: Approve HTI for a not to exceed amount of \$1,660,385.00 for the 2021 Street Bond Project- Phase I.

LETTER OF RECOMMENDATION

FOR

City of Angleton

2021 Street Bond Project – Package 1:
Ridgecrest Street and Robinhood Lane



CITY OF ANGLETON

APRIL, 2022

HDR Project No. 10318318



HDR ENGINEERING, INC.
4828 LOOP CENTRAL DRIVE, SUITE 800
HOUSTON, TEXAS 77081
(713) 622-9264

April 19, 2022

Mayor and City Council Members
City of Angleton, Texas
121 S. Velasco
Angleton, TX 77515

Re: 2021 Street Bond Project – Phase 1: Ridgecrest Street and
Robinhood Lane
City of Angleton, Texas
HDR Job No. 10318313

Dear Mayor and City Council Members:

On April 12, 2022, two (2) bids were received on the above referenced project.

1. Bid Tabulation Sheet – Two (2) construction firms participated in the bidding process. Each bid was checked for mathematical errors and/or bid irregularities. Appropriate corrections to the errors were made and included in the attached bid tabulations. The errors did not affect the order of the bids. The project was bid with Base Bid and Supplemental items. A bid tab is included in Section 1. The bids for the project are as follows:

CONTRACTOR	TOTAL (BASE BID AND SUPPLEMENTAL ITEMS)
HTI Construction, LLC (Apparent Low Bidder)	\$1,660,385.00
Matula and Matula Construction, Inc.	\$2,114,225.10

2. Evaluation of the Apparent Low Bidder - The apparent low bidder is HTI Construction, LLC. (HTI). HTI has not previously performed a project of this magnitude. However, they have previously performed smaller projects that have similar work. HTI has performed many successful projects for the City of Angleton ranging from emergency repairs to roadway projects to utility work and has a great rapport with City staff and established a high standard of quality for their work product.

HTI has been in business for six (6) years and has completed many projects for the City of Angleton, Lake Jackson, Freeport, Rosenberg, Katy & Fort Bend County Mud Districts ranging from \$2,000 to 750,000. Please see Section 2 of this report for their references.

3. Telephone Conversations with References – HTI provided a list of references. Four (4) references were contacted by telephone and were asked to respond to a questionnaire as part of the evaluation process of the apparent low bidder. The Contractor received excellent ratings on their previous projects. The references indicated that they were satisfied with the

work HTI had performed and would use them again in the future. Section 3 of this report represents the four references contacted.

4. Resumes – Company resumes for the supervisory positions have been included in the report for referencing qualifications. Please see Section 4 of this report.

This will be HTI's first million-dollar project. HTI has stated that they have the knowledge, equipment, manpower & finances to complete this project. HTI also stated that they will have completed the underground and site work portion for the Lift Station No. 8 Project (remaining work will be to the lift station structure) and completed the newly awarded Miller Parrish Street Project prior to this project commencing on June 1, 2022. HTI is confident with their prices established in the submitted bid proposal and provided assurances that they can complete the project on budget and on time.

HDR has also spoken with City staff on HTI capabilities. Staff stated that HTI is a great firm that has completed several projects for them and provides a high-quality work product. HTI has also been fair to the City staff on changes to the contract due to unknown field conditions. The City of Angleton Staff believe that HTI has the experience and capabilities to successfully deliver this project.

HTI Construction, LLC. is a company with experience in paving and utility projects and appears to be a responsible firm that should be capable of performing the specified work in a satisfactory manner. Also, City staff believes HTI Construction, LLC has the experience and capabilities to successfully deliver the project on budget and on time. For these reasons listed above, HDR recommends that the City of Angleton award the 2021 Street Bond Project – Phase 1 (Ridgecrest Street and Robinhood Lane) for a not to exceed amount of One-Million, Six-Hundred Sixty Thousand, Three-Hundred Eighty-Five Dollars and Zero Cents (\$1,660,385.00).

If you have any questions, please feel free to contact us, (713) 622-9264.

Sincerely,

HDR ENGINEERING, INC.

John Peterson, P.E., CFM
City Engineer

SECTION 1

Bid Tabulation

Bid Tabulation
2021 Street Bond Project - Phase 1: Ridgcrest Street and Robinhood Lane
City of Angleton

Item	Item Description			Low Bidder		Matula & Matula Construction, Inc.	
				HTI Construction			
		Unit	Quantity	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
	A) GENERAL ITEMS						
1	Traffic Control, including Flagmen, Signs, Barrels, Barricades, Arrow Boards, Maintaining All Weather Access to Traffic, Temporary Transitions from Proposed Pavement to Existing Pavement, Relocating Existing Mailboxes and Traffic Signs, and Temporary Mailboxes, complete in place, the sum of:	LS	1	\$ 65,000.00	\$ 65,000.00	\$ 15,000.00	\$ 15,000.00
2	Temporary Sediment Control including Inlet protection barriers, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments and TDPS requirements, complete in place, the sum of:	LS	1	\$ 3,000.00	\$ 3,000.00	\$ 65,384.60	\$ 65,384.60
RIDGCREST STREET - GENERAL ITEMS TOTAL				\$ 68,000.00		\$ 80,384.60	
	B) PAVING ITEMS						
3	Removal of existing concrete pavement with base materials and curbs, complete in place, the sum of:	SY	4450	\$ 15.00	\$ 66,750.00	\$ 9.00	\$ 40,050.00
4	7" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place, the sum of:	SY	4450	\$ 53.00	\$ 235,850.00	\$ 70.00	\$ 311,500.00
5	3" HMAC Type D overlay, complete in place, the sum of:	SY	175	\$ 42.00	\$ 7,350.00	\$ 33.00	\$ 5,775.00
6	8" HMAC Type A black base, complete in place, the sum of:	SY	175	\$ 45.00	\$ 7,875.00	\$ 68.60	\$ 12,005.00
7	8" lime stabilized subgrade, complete in place, the sum of:	SY	5150	\$ 7.00	\$ 36,050.00	\$ 3.60	\$ 18,540.00
8	Lime for lime stabilized subgrade (8% by dry weight), complete in place, the sum of:	TN	150	\$ 225.00	\$ 33,750.00	\$ 220.00	\$ 33,000.00
9	4" reinforced concrete laydown curb, including reinforcement and joints, complete in place, the sum of:	LF	1900	\$ 8.00	\$ 15,200.00	\$ 3.50	\$ 6,650.00
10	6" standard reinforced concrete curb, including transitions, complete in place, the sum of:	LF	300	\$ 10.00	\$ 3,000.00	\$ 4.50	\$ 1,350.00
11	Reinforced concrete monolithic curb and gutter, including reinforcement and joints, complete in place, the sum of:	LF	160	\$ 65.00	\$ 10,400.00	\$ 38.10	\$ 6,096.00
12	Remove and replace 6" concrete driveway, including blockout, reinforcement and joints, complete in place, the sum of:	SY	535	\$ 108.00	\$ 57,780.00	\$ 207.00	\$ 110,745.00
13	Remove and replace 7" concrete driveway, including blockout, reinforcement and joints, complete in place, the sum of:	SY	325	\$ 125.00	\$ 40,625.00	\$ 223.80	\$ 72,735.00
14	Remove and replace existing concrete wheelchair ramp, complete in place, the sum of:	EA	5	\$ 3,500.00	\$ 17,500.00	\$ 4,439.50	\$ 22,197.50
15	Remove existing sidewalk and replace with 4"-thick concrete sidewalk, complete in place, the sum of:	SF	600	\$ 10.00	\$ 6,000.00	\$ 21.60	\$ 12,960.00
16	Concrete pavement header or doweled connection without undercut to existing pavement header, per detail, complete in place, the sum of:	LF	120	\$ 25.00	\$ 3,000.00	\$ 50.90	\$ 6,108.00
17	Concrete undercut pavement header, including expansion joint per details, complete in place, the sum of:	LF	75	\$ 25.00	\$ 1,875.00	\$ 139.00	\$ 10,425.00
18	Thermoplastic pavement markings, 12" white for continental crosswalk, including surface preparation and priming, complete in place, the sum of:	LF	215	\$ 10.00	\$ 2,150.00	\$ 11.90	\$ 2,558.50
19	Thermoplastic pavement markings, 24" white solid striping, complete in place, the sum of:	LF	20	\$ 10.00	\$ 200.00	\$ 23.80	\$ 476.00
20	Thermoplastic pavement markings, 4" yellow for parking spaces, including surface preparation and priming, complete in place, the sum of:	LF	475	\$ 3.00	\$ 1,425.00	\$ 3.60	\$ 1,710.00
21	Thermoplastic pavement markings, yellow paint along esplanade nose area and curb, including surface preparation and priming, complete in place, the sum of:	SF	15	\$ 20.00	\$ 300.00	\$ 6.50	\$ 97.50
22	Remove and replace flashing crosswalk beacon (4L-2T, CIRCULAR YELLOW) at intersection of N. Downing St. and Ridgcrest St., complete in place, the sum of:	EA	1	\$ 4,000.00	\$ 4,000.00	\$ 17,832.20	\$ 17,832.20
23	Remove and remount existing traffic sign on new post, complete in place, the sum of:	EA	9	\$ 300.00	\$ 2,700.00	\$ 448.80	\$ 4,039.20
RIDGCREST STREET - PAVING ITEMS TOTAL				\$ 553,780.00		\$ 696,849.90	
	C) DRAINAGE ITEMS						
24	Remove existing storm sewer, all sizes, all depths, complete in place, the sum of:	LF	150	\$ 50.00	\$ 7,500.00	\$ 22.30	\$ 3,345.00
25	Remove existing inlet, all types, complete in place, the sum of:	EA	3	\$ 500.00	\$ 1,500.00	\$ 500.00	\$ 1,500.00

2021 Street Bond Project - Phase 1: Ridgcrest Street and Robinhood Lane
City of Angleton

Item	Item Description			Low Bidder		Matula & Matula Construction, Inc.	
		Unit	Quantity	HTI Construction			
				UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
	A) GENERAL ITEMS						
1	Traffic Control, including Flagmen, Signs, Barrels, Barricades, Arrow Boards, Maintaining All Weather Access to Traffic, Temporary Transitions from Proposed Pavement to Existing Pavement, Relocating Existing Mailboxes and Traffic Signs, and Temporary Mailboxes, complete in place, the sum of:	LS	1	\$ 65,000.00	\$ 65,000.00	\$ 15,000.00	\$ 15,000.00
26	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	LF	750	\$ 85.00	\$ 63,750.00	\$ 130.90	\$ 98,175.00
27	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	LF	75	\$ 110.00	\$ 8,250.00	\$ 155.00	\$ 11,625.00
28	Type C-2 inlet, complete in place, the sum of:	EA	1	\$ 8,900.00	\$ 8,900.00	\$ 6,065.30	\$ 6,065.30
29	Type H-2 inlet, complete in place, the sum of:	EA	2	\$ 6,000.00	\$ 12,000.00	\$ 3,628.30	\$ 7,256.60
30	Modified Type B inlet, complete in place, the sum of:	EA	1	\$ 5,000.00	\$ 5,000.00	\$ 4,127.60	\$ 4,127.60
31	Type A manhole, complete in place, the sum of:	EA	2	\$ 5,000.00	\$ 10,000.00	\$ 3,544.80	\$ 7,089.60
32	Type E inlet, complete in place, the sum of:	EA	1	\$ 5,500.00	\$ 5,500.00	\$ 4,097.90	\$ 4,097.90
33	Connect proposed storm sewer to existing inlet or manhole, complete in place, the sum of:	EA	2	\$ 1,000.00	\$ 2,000.00	\$ 3,000.00	\$ 6,000.00
34	Trench safety for all storm sewers greater than 5' deep, including installation, operation and removal, complete in place, the sum of:	LF	800	\$ 1.00	\$ 800.00	\$ 2.00	\$ 1,600.00
	RIDGCREST STREET - DRAINAGE ITEMS TOTAL			\$	125,200.00	\$	150,882.00
	D) SANITARY SEWER ITEMS						
35	Remove and replace existing 12"-dia. sanitary sewer, complete in place, the sum of:	LF	60	\$ 81.00	\$ 4,860.00	\$ 91.50	\$ 5,490.00
36	Connect proposed sanitary sewer to existing sanitary sewer with coupling per detail, complete in place, the sum of:	EA	2	\$ 1,000.00	\$ 2,000.00	\$ 1,924.20	\$ 3,848.40
37	Trench safety for all sanitary sewer line, including installation, operation and removal, complete in place, the sum of:	LF	60	\$ 10.00	\$ 600.00	\$ 2.40	\$ 144.00
	RIDGCREST STREET - SANITARY SEWER ITEMS TOTAL			\$	7,460.00	\$	9,482.40
	E) WATER ITEMS						
38	Remove existing water line, including plug at each end, complete in place, the sum of:	LF	90	\$ 12.00	\$ 1,080.00	\$ 14.90	\$ 1,341.00
39	Furnish and install 8-inch PVC C-900 DR18 CL 235 water line, all fittings, by augered construction as shown on plans, complete in place, the sum of:	LF	1300	\$ 62.00	\$ 80,600.00	\$ 89.70	\$ 116,610.00
40	8" wet connection, complete in place, the sum of:	EA	3	\$ 1,000.00	\$ 3,000.00	\$ 4,000.00	\$ 12,000.00
41	8" cut, plug, and abandon, complete in place, the sum of:	EA	2	\$ 500.00	\$ 1,000.00	\$ 413.10	\$ 826.20
42	Short side service connections, complete in place, the sum of:	EA	10	\$ 600.00	\$ 6,000.00	\$ 1,105.20	\$ 11,052.00
43	2" long side service connection for school, complete in place, the sum of:	EA	1	\$ 2,000.00	\$ 2,000.00	\$ 2,915.40	\$ 2,915.40
44	Remove and salvage existing fire hydrant, including gate valve and box, complete in place, the sum of:	EA	3	\$ 1,000.00	\$ 3,000.00	\$ 120.00	\$ 360.00
45	Furnish and install fire hydrant assembly, including 6-inch gate valve and box and hydrant lead, complete in place, the sum of:	EA	4	\$ 6,900.00	\$ 27,600.00	\$ 6,411.50	\$ 25,646.00
46	Adjust existing valve box, meter box, and/or cleanout to be flush with top of proposed pavement or finished grade per plans, complete in place, the sum of:	LF	2	\$ 100.00	\$ 200.00	\$ 350.00	\$ 700.00
47	Trench safety for all water line greater than 5' deep, including installation, operation and removal, complete in place, the sum of:	LF	425	\$ 1.00	\$ 425.00	\$ 2.00	\$ 850.00
	RIDGCREST STREET - WATER ITEMS TOTAL			\$	124,905.00	\$	172,300.60
	F) TREE PROTECTION ITEMS						
48	Remove tree 0 to 11.99", complete in place, the sum of:	EA	2	\$ 400.00	\$ 800.00	\$ 713.30	\$ 1,426.60
49	Remove tree 12 to 29.99", complete in place, the sum of:	EA	2	\$ 800.00	\$ 1,600.00	\$ 2,377.60	\$ 4,755.20
50	Clearance prune tree, complete in place, the sum of:	EA	16	\$ 150.00	\$ 2,400.00	\$ 225.90	\$ 3,614.40
51	Install Tree Protection fence (up to 5,000LF), complete in place, the sum of:	LF	1,000	\$ 4.00	\$ 4,000.00	\$ 5.90	\$ 5,900.00
52	Install Root Pruning Trench, complete in place, the sum of:	LF	400	\$ 10.00	\$ 4,000.00	\$ 10.70	\$ 4,280.00
53	Install Zero Curb Cutback, complete in place, the sum of:	LF	80	\$ 20.00	\$ 1,600.00	\$ 59.40	\$ 4,752.00
	RIDGCREST STREET - TREE PROTECTION ITEMS TOTAL			\$	14,400.00	\$	24,728.20

2021 Street Bond Project - Phase 1: Ridgcrest Street and Robinhood Lane

City of Angleton

Item	Item Description			Low Bidder		Matula & Matula Construction, Inc.	
				HTI Construction			
				UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
A) GENERAL ITEMS							
1	Traffic Control, including Flagmen, Signs, Barrels, Barricades, Arrow Boards, Maintaining All Weather Access to Traffic, Temporary Transitions from Proposed Pavement to Existing Pavement, Relocating Existing Mailboxes and Traffic Signs, and Temporary Mailboxes, complete in place, the sum of:	LS	1	\$ 65,000.00	\$ 65,000.00	\$ 15,000.00	\$ 15,000.00
G) GENERAL ITEMS							
54	Traffic Control, including Flagmen, Signs, Barrels, Barricades, Arrow Boards, Maintaining All Weather Access to Traffic, Temporary Transitions from Proposed Pavement to Existing Pavement, Relocating Existing Mailboxes and Traffic Signs, and Temporary Mailboxes, complete in place, the sum of:	LS	1	\$ 65,000.00	\$ 65,000.00	\$ 21,809.40	\$ 21,809.40
55	Temporary Sediment Control including Inlet protection barriers, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments and TDPEs requirements, complete in place, the sum of:	LS	1	\$ 3,000.00	\$ 3,000.00	\$ 56,468.50	\$ 56,468.50
ROBINHOOD LANE - GENERAL ITEMS TOTAL				\$ 68,000.00		\$ 78,277.90	
H) PAVING ITEMS							
56	Removal of existing concrete pavement with base materials and curbs, complete in place, the sum of:	SY	3650	\$ 15.00	\$ 54,750.00	\$ 9.00	\$ 32,850.00
57	7" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place, the sum of:	SY	3750	\$ 53.00	\$ 198,750.00	\$ 70.00	\$ 262,500.00
58	3" HMAc Type D overlay, complete in place, the sum of:	SY	60	\$ 42.00	\$ 2,520.00	\$ 33.10	\$ 1,986.00
59	8" HMAc Type A black base, complete in place, the sum of:	SY	65	\$ 45.00	\$ 2,925.00	\$ 69.30	\$ 4,504.50
60	8" lime stabilized subgrade, complete in place, the sum of:	SY	4250	\$ 7.00	\$ 29,750.00	\$ 3.60	\$ 15,300.00
61	Lime for lime stabilized subgrade (8% by dry weight), complete in place, the sum of:	TN	125	\$ 225.00	\$ 28,125.00	\$ 220.00	\$ 27,500.00
62	4" reinforced concrete laydown curb, including reinforcement and joints, complete in place, the sum of:	LF	2200	\$ 8.00	\$ 17,600.00	\$ 5.00	\$ 11,000.00
63	6" standard reinforced concrete curb, including transitions, complete in place, sum of:	L	175	\$ 10.00	\$ 1,750.00	\$ 11.20	\$ 1,960.00
64	Remove and replace 6" concrete driveway, including blockout, reinforcement and joints, complete in place, the sum of:	SY	1200	\$ 108.00	\$ 129,600.00	\$ 207.00	\$ 248,400.00
65	Remove and replace existing concrete wheelchair ramp, complete in place, the sum of:	EA	4	\$ 3,500.00	\$ 14,000.00	\$ 4,439.50	\$ 17,758.00
66	Remove existing sidewalk and replace with 4"-thick concrete sidewalk, complete in place, the sum of:	SF	850	\$ 10.00	\$ 8,500.00	\$ 21.60	\$ 18,360.00
67	Concrete pavement header or doweled connection without undercut to existing pavement header, per detail, complete in place, the sum of:	LF	80	\$ 25.00	\$ 2,000.00	\$ 88.40	\$ 7,072.00
68	Concrete undercut pavement header, including expansion joint per details, complete in place, the sum of:	LF	80	\$ 25.00	\$ 2,000.00	\$ 139.00	\$ 11,120.00
69	Thermoplastic pavement markings, 12" white for continental crosswalk, including surface preparation and priming, complete in place, the sum of:	LF	200	\$ 10.00	\$ 2,000.00	\$ 11.90	\$ 2,380.00
70	Thermoplastic pavement markings, 24" white solid striping, complete in place, the sum of:	LF	35	\$ 10.00	\$ 350.00	\$ 23.80	\$ 833.00
71	Remove and remount existing traffic sign on new post, complete in place, the sum of:	EA	3	\$ 300.00	\$ 900.00	\$ 474.60	\$ 1,423.80
ROBINHOOD LANE - PAVING ITEMS TOTAL				\$ 495,520.00		\$ 664,947.30	
I) DRAINAGE ITEMS							
72	Remove existing storm sewer, all sizes, all depths, complete in place, the sum of:	LF	75	\$ 50.00	\$ 3,750.00	\$ 22.30	\$ 1,672.50
73	Remove existing storm sewer manhole or junction box, all sizes, all depths, complete in place, the sum of:	EA	1	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00
74	Remove existing inlet, all types, complete in place, the sum of:	EA	2	\$ 500.00	\$ 1,000.00	\$ 500.00	\$ 1,000.00
75	18" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	LF	35	\$ 76.00	\$ 2,660.00	\$ 125.50	\$ 4,392.50
76	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	LF	550	\$ 85.00	\$ 46,750.00	\$ 131.00	\$ 72,050.00
77	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place, the sum of:	LF	40	\$ 110.00	\$ 4,400.00	\$ 150.00	\$ 6,000.00
78	Type H-2 Inlet, complete in place, the sum of:	EA	2	\$ 6,000.00	\$ 12,000.00	\$ 5,720.60	\$ 11,441.20
79	Type BB Inlet, complete in place, the sum of:	EA	1	\$ 4,500.00	\$ 4,500.00	\$ 3,574.80	\$ 3,574.80
80	Type C-1 Inlet, complete in place, the sum of:	EA	1	\$ 7,000.00	\$ 7,000.00	\$ 5,381.80	\$ 5,381.80
81	Type A manhole, complete in place, the sum of:	EA	2	\$ 6,000.00	\$ 12,000.00	\$ 3,604.50	\$ 7,209.00
82	5' Junction Box Manhole, complete in place, the sum of:	EA	1	\$ 6,000.00	\$ 6,000.00	\$ 3,914.60	\$ 3,914.60
83	Steel Flow Control Device Plate, complete in place, the sum of:	EA	1	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00
84	Trench safety for all storm sewers greater than 5' deep, including installation, operation and removal, complete in place, the sum of:	LF	400	\$ 1.00	\$ 400.00	\$ 2.40	\$ 960.00
ROBINHOOD LANE - DRAINAGE ITEMS TOTAL				\$ 105,960.00		\$ 123,096.40	
J) SANITARY SEWER ITEMS							
85	Remove and replace existing 12"-dia. sanitary sewer, complete in place, the sum of:	LF	60	\$ 81.00	\$ 4,860.00	\$ 91.50	\$ 5,490.00
86	Connect proposed sanitary sewer to existing sanitary sewer with coupling per detail, complete in place, the sum of:	EA	2	\$ 1,000.00	\$ 2,000.00	\$ 3,597.00	\$ 7,194.00
87	Trench safety for all sanitary sewer line, including installation, operation and removal, complete in place, the sum of:	LF	60	\$ 10.00	\$ 600.00	\$ 2.40	\$ 144.00
ROBINHOOD LANE - SANITARY SEWER ITEMS TOTAL				\$ 7,460.00		\$ 12,828.00	

Bid Tabulation
2021 Street Bond Project - Phase 1: Ridgcrest Street and Robinhood Lane
City of Angleton

Item 3.

Item	Item Description			Low Bidder		Matula & Matula Construction, Inc.	
				HTI Construction			
		Unit	Quantity	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
	A) GENERAL ITEMS						
1	Traffic Control, including Flagmen, Signs, Barrels, Barricades, Arrow Boards, Maintaining All Weather Access to Traffic, Temporary Transitions from Proposed Pavement to Existing Pavement, Relocating Existing Mailboxes and Traffic Signs, and Temporary Mailboxes, complete in place, the sum of:	LS	1	\$ 65,000.00	\$ 65,000.00	\$ 15,000.00	15,000.00
	K) TREE PROTECTION ITEMS						
88	Remove tree 12 to 29.99", complete in place, the sum of:	EA	1	\$ 1,000.00	\$ 1,000.00	\$ 2,377.60	2,377.60
89	Clearance prune tree, complete in place, the sum of:	EA	28	\$ 150.00	\$ 4,200.00	\$ 225.90	6,325.20
90	Install Tree Protection fence (up to 5,000LF), complete in place, the sum of:	LF	1,400	\$ 4.00	\$ 5,600.00	\$ 5.90	8,260.00
91	Install Root Pruning Trench, complete in place, the sum of:	LF	450	\$ 10.00	\$ 4,500.00	\$ 10.70	4,815.00
92	Install Zero Curb Cutback, complete in place, the sum of:	LF	300	\$ 20.00	\$ 6,000.00	\$ 59.40	17,820.00
	ROBINHOOD LANE - TREE PROTECTION ITEMS TOTAL			\$ 21,300.00		\$ 39,597.80	
	L) SUPPLEMENTAL ITEMS						
93	Brace, support, and protect utility structures as per Utility Company's requirements, complete in place, the sum of:	EA	6	\$ 800.00	\$ 4,800.00	\$ 800.00	4,800.00
94	Remove and Replace Decorative Landscaping, including Flowers, Plants, Bushes, Rocks and Associated Materials within Landscaping Area, complete in place, the sum of:	SF	200	\$ 10.00	\$ 2,000.00	\$ 10.00	2,000.00
95	Remove and Replace or Adjust Irrigation System per Property in the construction zone, including Sprinkler Heads and Valves and Plugging existing system for use during Construction, complete in place, the sum of:	EA	28	\$ 1,000.00	\$ 28,000.00	\$ 1,000.00	28,000.00
96	Install extra cement stabilized sand backfill, complete in place, the sum of:	CY	100	\$ 30.00	\$ 3,000.00	\$ 30.00	3,000.00
97	Install extra bank sand backfill, complete in place, the sum of:	CY	100	\$ 30.00	\$ 3,000.00	\$ 30.00	3,000.00
98	Extra crushed concrete base material, complete in place, the sum of:	TN	100	\$ 30.00	\$ 3,000.00	\$ 25.00	2,500.00
99	Extra 1.5 sack of cement per cubic yard added to the 6" concrete driveways (total of 7.0 sack/cubic yard), complete in place, the sum of:	SY	300	\$ 10.00	\$ 3,000.00	\$ 4.00	1,200.00
100	Extra 1.5 sack of cement per cubic yard added to the 7" concrete pavement and commercial driveways (total of 7.0 sack/cubic yard), complete in place, the sum of:	SY	750	\$ 10.00	\$ 7,500.00	\$ 5.00	3,750.00
101	Extra Type D asphalt pavement, complete in place, the sum of:	TN	100	\$ 85.00	\$ 8,500.00	\$ 70.00	7,000.00
102	4" PVC Schedule 40 Pipe for Yard Drain, complete in place, the sum of:	EA	28	\$ 200.00	\$ 5,600.00	\$ 200.00	5,600.00
	ROBINHOOD LANE - SUPPLEMENTAL ITEMS TOTAL			\$ 68,400.00		\$ 60,850.00	
	TOTAL RIDGECREST STREET - GENERAL ITEMS			\$ 68,000.00		\$ 80,384.60	
	TOTAL RIDGECREST STREET - PAVING ITEMS:			\$ 553,780.00		\$ 696,849.90	
	TOTAL RIDGECREST STREET - DRAINAGE ITEMS:			\$ 125,200.00		\$ 150,882.00	
	TOTAL RIDGECREST STREET - SANITARY SEWER ITEMS:			\$ 7,460.00		\$ 9,482.40	
	TOTAL RIDGECREST STREET - WATER ITEMS:			\$ 124,905.00		\$ 172,300.60	
	TOTAL RIDGECREST STREET - TREE PROTECTION ITEMS:			\$ 14,400.00		\$ 24,728.20	
	TOTAL ROBINHOOD LANE - GENERAL ITEMS			\$ 68,000.00		\$ 78,277.90	
	TOTAL ROBINHOOD LANE - PAVING ITEMS:			\$ 495,520.00		\$ 664,947.30	
	TOTAL ROBINHOOD LANE - DRAINAGE ITEMS:			\$ 105,960.00		\$ 123,096.40	
	TOTAL ROBINHOOD LANE - SANITARY SEWER ITEMS			\$ 7,460.00		\$ 12,828.00	
#####	TOTAL TREE ROBINHOOD LANE - TREE PROTECTION ITEMS:			\$ 21,300.00		\$ 39,597.80	
	TOTAL SUPPLEMENTAL ITEMS:			\$ 68,400.00		\$ 60,850.00	
	TOTAL BID PLUS SUPPLEMENTAL:			\$ 1,660,385.00		\$ 2,114,225.10	
	Represents Error Corrected by Engineer						
	Represents Bid Withdrawn by Bidder						

SECTION 2

References



515 Reinhard St., Rosenberg, Texas 77471 | 832-600-7632 | tg.hticonstruction@gmail.com

REFERENCES

Jeff Sifford

Public Works Director

City of Angleton

901 S. Velasco

Angleton, TX 77515

979-481-1629

jsifford@angleton.tx.us

20016 Sidewalk Improvements Pkg. 1

28" Force Main Casing Extension

Heritage Oaks Sewer Repair

30" Emergency Sanitary Sewer Extension

Multiple Concrete Street, Sidewalks Repairs & Installs Project

Miller St. Sanitary Sewer Improvements

Javier Vasquez

Engineer

HDR Engineering Inc.

4820 Loop Central Dr. #800

Houston, TX 77081

713-622-9264

Javier.vasquez@hdrinc.com

2016 Sidewalk Improvements Pkg.1

30" Emergency Sanitary Sewer Extension

Miller St. Sanitary Sewer Improvements

Lift Station 8 & Gravity Sanitary Sewer- In Progress

Eddie Herrera

City Inspector/Engineer

City of Lake Jackson

25 Oak Drive Ln.

Lake Jackson, TX 77566

979-482-3521

eherrera@lakejacksontx.gov

Magnolia Ditch Slope Paving

12 Inch DOW Tower Waterline Replacement

2021 Street Panel Repairs Cherrywood, Banyan & Oyster Creek

Drainage Improvements West SH 332/ 2010 Bond Project/ Yaupon Ditch Lining SH 332 to Walnut Street / Walnut Street Crossing Replacement

Louis Brown

Project Manager
 Costello Engineering & Surveying
 2107 Citywest Blvd. 3rd Floor
 Houston, TX 77042
 713-783-7788
lbrown@costelloinc.com

Drainage & Sidewalk Improvements for Katy City Park

Nick Huerta

Construction Manager
 Jones & Carter
 2322 West Grand Parkway, North Suite 150
 Katy, TX 77449
 832-913-4000
nhuerta@jonescarter.com

12 Inch Water Line Along Kroesche Rd. & I-69
 Linwood Dr. & Crestmont St Reconstruction Project- City of Wharton
 Highland Meadows Lift Station & Offsite Utilities-In Progress

Jared Bierman

Engineer
 Jones & Carter
 2322 West Grand Parkway, North Suite 150
 Katy, TX 77449
 832-913-4000 X 3216
jbiermann@jonescarter.com

Linwood Dr. & Crestmont St Reconstruction Project- City of Wharton

David Stredick

Program Manager/Inspector
 City of Rosenberg
 2630 Avenue A
 Rosenberg, TX 77471
 832-595-3593
dstredick@rosenbergtx.gov

12 Inch Water Line Along Kroesche Rd. & I-69

Sarah Abrams

Engineer
 Odyssey Engineering Group
 2500 Tanglewilde St. Suite 480
 Houston, TX 77063
 281-306-0240 X 105
sabrams@odysseyeg.com

Victoria Garden Storm Sewer Repair

Nancy Davis

Owner
 Palms Funeral Home
 2300 E. Mulberry
 Angleton, TX 77515
 979-849-4343
palmsfuneralhome@msn.com

Asphalt Parking Lot & Detention Pond Install

Mark Hodges

Engineer
 Odyssey Engineering Group
 2500 Tanglewilde St, Suite 480
 Houston, TX 77063
 281-306-0240 X 109
mhodes@odysseyeg.com

Highland Meadows Lift Station & Off-site Utilities

John Stroehlein

Project Manager
 Mr. Bryant Fitts
 4801 Richmond Ave
 Houston, TX 77027
 713-201-3135
jstroehlein@mac.com

Country Aire Mobile Home Park Extension Water, Sewer, Drainage & Paving

Tim Griffith

Vice President
 Kelly Kaluza Engineering
 3014 Ave I
 Rosenberg, TX 77471
 281-341-0808
tgriffith@kellykaluza.com

U.S. 90A Waterline Relocation
 Risers International Public/Private Water, Sewer Replacement

Dewayne Davis
Engineer/Inspector
Kelly Kaluza Engineering
3014 Ave I
Rosenberg, TX 77471
281-341-0808
ddavis@kaluzainc.com

Drainage Improvements to Serve Holiday Lakes- In Progress

Blake Ahrendsen
Engineer
Odyssey Engineering Group
2500 Tanglewilde St., Suite 480
Houston, TX 77063
281-306-0240 x 112
bahrendsen@odysseyeg.com

Charleston MUD No.1 Lift Station & Off-Site Utilities- In Progress

SECTION 3

Telephone Conversation With References



CONTRACTOR REFERENCE FORM

Date: April 18, 2022

Project: City of Angleton 2021 Street Bond Project – Phase 1: Ridgecrest Street and Robinhood Lane

Contractor: HTI Construction, Inc.

Reference Name: Eddie Herrera, City Inspector Company: City of Lake Jackson

Contact: (979) 482-3521

Dear Mr. Herrera:

HTI Construction, Inc. is the apparent low bidder for the above referenced project and has submitted your name as a reference. Reference responses will be included in the evaluation of lowest responsible bid proposals received for this project.

HDR would appreciate your time in rating your experience with this Contractor. Please circle the number corresponding to the response which best indicates your opinion of the Contractor or provide a short answer on the lines as it relates to each item.

	Excellent	Above Average	Average	Below Average	Poor	
Rate the Contractor's performance as a "team player".	10	9	8	7	6	5 4 3 2 1 No Opinion
How would you rate their ability to coordinate the work with neighboring property owners? Made everyone happy	10	9	8	7	6	5 4 3 2 1 No Opinion
Rate the quality of construction, the Contractor's supervision and project management. Real good contractor	10	9	8	7	6	5 4 3 2 1 No Opinion
Rate the Contractor's ability to achieve completion of the project on time.	10	9	8	7	6	5 4 3 2 1 No Opinion
Were there many change orders on the project? If so, what were the reasons? Were they reasonable?	<u>City initiated 2 change orders</u>					
Rate the Contractor's responsiveness to warranty work requests, and the quality of the warranty work. None needed	10	9	8	7	6	5 4 3 2 1 No Opinion
Rate the Contractor's ability to expeditiously closeout projects. No delays, as soon as complete	10	9	8	7	6	5 4 3 2 1 No Opinion
Did they have any problems with the job? If so, what was the nature of the problem?	<u>Only what was missed in the original SOW – on City side.</u>					
Rate the Contractor's restoration and clean-up work.	10	9	8	7	6	5 4 3 2 1 No Opinion
Would you want to work with this Contractor again?	<u>We work with them all the time on different types of projects. They took care of everything, even brought in extras/leftovers to make it look great.</u>					

Thank you for your time in participating in the proposal evaluation process for this project.

Sincerely,

John Peterson, P.E., CFM

Project Manager

hdrinc.com

4828 Loop Central Drive, Suite 800, Houston, TX 77081-2220

T (713) 622-9264 F (713) 622-9265

Texas Registered Engineering Firm F-754

REFERENCE: City of Angleton
PROJECT: 20016 Sidewalk Improvements Pkg. 1
TELEPHONE NO.: 979-481-1629
CONTACT: Jeff Sifford

QUESTIONS

1. How did HTI Construction perform for you on previous projects? (On a scale of 1-10)
“Great”
2. Were you satisfied with their performance?
ANSWER: “absolutely”
3. How would you rate the quality of their work? (On a scale of 1-10)
ANSWER: “Good”
4. How would you rate their ability to coordinate the work with neighboring property owners? (Scale of 1-10)
ANSWER: “They were great”
5. Did they have any problems with any jobs? If so, what was the nature of the problem?
ANSWER: “No”
6. Were they able to complete projects within the time allotted? If not, what was the reason?
ANSWER: Yes
7. How would you rate their ability to cooperate with a client? (On a scale of 1-10)
ANSWER: “They were great”
8. Would you like to have them perform a job for you again?
ANSWER: “Yes they do work for us all the time”

REFERENCE: City of Danbury
PROJECT: City of Danbury Sewer & Water Installation
TELEPHONE NO.: 979-922-1551
CONTACT: Rodger Thomas

QUESTIONS

1. How did HTI Construction perform for you on previous projects? (On a scale of 1-10)

10
2. Were you satisfied with their performance?

ANSWER: "Excellent"
3. How would you rate the quality of their work? (On a scale of 1-10)

ANSWER: 10
4. How would you rate their ability to coordinate the work with neighboring property owners? (Scale of 1-10)

ANSWER: "Very Good, they were good"
5. Did they have any problems with any jobs? If so, what was the nature of the problem?

ANSWER: "No man"
6. Were they able to complete projects within the time allotted? If not, what was the reason?

ANSWER: Yes
7. How would you rate their ability to cooperate with a client? (On a scale of 1-10)

ANSWER: 10
8. Would you like to have them perform a job for you again?

ANSWER: Yes

REFERENCE: City of Rosenberg
PROJECT: 12 Inch Water Line Along Kroesche Rd. & I-69
TELEPHONE NO.: 832-595-3593
CONTACT: David Stredick

QUESTIONS

1. How did HTI Construction perform for you on previous projects? (On a scale of 1-10)
10
2. Were you satisfied with their performance?
ANSWER: OF course
3. How would you rate the quality of their work? (On a scale of 1-10)
ANSWER: 9
4. How would you rate their ability to coordinate the work with neighboring property owners? (Scale of 1-10)
ANSWER: 9
5. Did they have any problems with any jobs? If so, what was the nature of the problem?
ANSWER: No problems
6. Were they able to complete projects within the time allotted? If not, what was the reason?
ANSWER: They finished it way ahead of time
7. How would you rate their ability to cooperate with a client? (On a scale of 1-10)
ANSWER: 10
8. Would you like to have them perform a job for you again?
ANSWER: Yes

SECTION 4

Resumes



515 Reinhard St., Rosenberg, Texas 77471 | 832-600-7632 | tg.hticonstruction@gmail.com

Company Resume

Henry Gutierrez

- Position: President/Superintendent
- Years of Experience: 45
- Description of Experience: Henry Gutierrez has held a supervisory position for multiple reputable companies, allowing him to serve as Superintendent for Mercer Construction, Uticon Inc., Matula & Matula Construction Inc., and Sorrell Construction. His experience and knowledge in water lines, storm sewers, sanitary sewers, paving, and concrete construction is evident in each of his projects. Mr. Gutierrez has supervised and assisted in multiple million-dollar projects of various sizes including: Stella Marie Subdivision in Galveston, Heritage Oaks in Angleton, Lake Bend Subdivision in Clute, Lane Drive Rehab in Rosenberg, Sunrise Meadows in Rosenberg, and Sewer Plant and Vacuum Line in Sargent.

Thomas Gutierrez

- Position: Vice President/Sr. Estimator
- Years of Experience: 15
- Description of Experience: Thomas Gutierrez has over 14 years of experience in sales, marketing and management. Mr. Gutierrez has experience in the management of construction and renovation projects, underground utilities and concrete construction. He is responsible for creating estimates, budgets, direct project planning, and finances. Mr. Gutierrez oversees all aspects of projects with full responsibility for completing construction on time and within budget, all while maintaining quality and safety standards. He is also responsible for negotiating with subcontractors to perform specialized work and collaborate with multiple groups to maintain tight schedules. Mr. Gutierrez has a strong understanding of safety codes, regulations, and ensures all employees of HTI Construction, Inc. maintain the same understanding and are always inspection compliant.

Lucio Narvaez

- Position: Concrete Superintendent
- Years of Experience: 19
- Description of Experience: Lucio Narvaez has over 18 years of experience in all facets of the construction industry. Lucio is skilled and experienced in various operations including heavy equipment operations, labor work, power tool operations, underground utilities, paving, and concrete construction. He is proficient in concrete construction including breaking and tearing out existing concrete, prep, form, pouring and finishing freshly poured concrete to smooth finish. He is also skilled and proficient in pouring ADA Compliance/Handicap Accessible ramps. Lucio has supervised, assisted and completed multiple projects in Angleton, Lake Jackson, Bay City, Freeport, Katy and Fort Bend County.

Jacob Nunez

- Position: Foreman
- Years of Experience: 18
- Description of Experience: Jacob Nunez has over 17 years of experience in all facets of the construction industry. Jacob is skilled and experienced in various operations including heavy equipment operations, labor work, power tool operations, underground utilities, paving, and concrete construction. He is proficient in concrete construction including breaking and tearing out existing concrete, prep, form, pouring and finishing freshly poured concrete to smooth finish. Jacob has assisted and completed multiple projects in Angleton, Lake Jackson, Bay City, Freeport and Fort Bend County.



AGENDA ITEM SUMMARY FORM

MEETING DATE: April 26, 2022

PREPARED BY: Jeff Sifford

AGENDA CONTENT: Discussion and possible action to award a contract to Sustanite Support Services, LLC for the Freedom Park Groundwater Treatment System project and authorize the City Manager to execute the agreement upon legal review.

AGENDA ITEM SECTION: Consent Agenda

BUDGETED AMOUNT: \$ 823,000.00

FUNDS REQUESTED: \$ 1,117,000.00

FUND: 129-570-503

EXECUTIVE SUMMARY:

On Wednesday, April 13, 2022 the City of Angleton received six (6) bids for the Freedom Park Groundwater Treatment System project.

Based on the bids submitted, the low bid is from Sustanite Support Services, LLC (S3) in the total amount of \$1,117,000. Freese and Nichols has reviewed S3's statement of qualifications. S3 has completed multiple similar projects in the past 5 years and has a satisfactory history of meeting schedule and budget.

The funds requested are over the budgeted amount because the original bond allocation. however the total amount for this project is in the bond.

RECOMMENDATION:

Staff recommends awarding the Freedom Park Groundwater Treatment System construction contract to Sustanite Support Services, LLC in the amount of \$1,117,000, which includes incorporating the Bid Alternate I-01 into the construction contract.

4/19/2022

Mr. Jeff Sifford
City of Angleton
Public Works Director
901 S Velasco Street
Angleton, TX 77515

RE: Freedom Park Groundwater Treatment System

Mr. Sifford,

On Wednesday, April 13, 2022, at 2:00 p.m., the City of Angleton received six (6) bids for the Freedom Park Groundwater Treatment System project, where the bids were opened and read aloud. Bids were reviewed and checked for mathematical accuracy. A tabular summary of the bids received is listed below and attached.

Freedom Park – Summary of Bids		
No.	Contractor	Total Bid Amount ¹
1	<i>Sustanite Support Services, LLC</i>	<i>\$1,117,000</i>
2	JTR Constructors, Inc.	\$1,221,000
3	J.S. Haren Company	\$1,248,000
4	Matula & Matula Construction, Inc.	\$1,265,563
5	Wharton Smith, Inc.	\$1,271,563
6	W.W. Payton Corporation	\$1,290,000
¹ Total Bid Amount includes bid alternate item "I-01 - Additional Media," which covers the media cost for the first media replacement event.		

Based on the bids submitted, the low bid is from Sustanite Support Services, LLC (S3) in the total amount of \$1,117,000. Freese and Nichols (FNI) has reviewed S3's statement of qualifications. S3 has completed multiple similar projects (i.e. water and wastewater process equipment installation, concrete work, metal canopy installation) in the past 5 years and has a satisfactory history of meeting schedule and budget. FNI contacted references from previous similar projects who confirmed having positive experiences with S3.

FNI recommends awarding the Freedom Park Groundwater Treatment System construction contract to **Sustanite Support Services, LLC** in the amount of **\$1,117,000**, which includes incorporating Bid Alternate I-01 into the construction contract.

We appreciate the opportunity to be of service to the City in this phase of the project and look forward to the successful construction of the project. If you have any questions, please contact me at (832) 456-4761 or Somnath.Chilukuri@freese.com.

Sincerely,



Somnath Chilukuri, P.E. | Project Manager | Freese and Nichols, Inc.

Attachment A - Detailed Tabulation of Bids Received

Project Owner Construction Manager Design Professional	Freedom Park Groundwater Treatment System			Project Number		J.S. Haren Company			JTR Constructors, Inc.			Matula & Matula Construction, Inc.			Sustanite Support Services, LLC			Wharton-Smith, Inc.			W.W. Payton Corporation		
	City of Angleton			ANG21219		1175 Hwy 11 N.			16015 Cairnway Dr. #842089			122 West Way, Suite 325			8000 Berwyn Dr.			750 Monroe Road			30655 FM 529		
	City of Angleton					Athens, TN 37303			Houston, TX 77284			Lake Jackson, TX 77566			Houston, TX 77037			Sanford, FL 32771			Brookshire, TX 77492		
	Freese and Nichols, Inc.																						
Item No.	Description			Quantity	Units	Unit Cost	Extended Amount	Note	Unit Cost	Extended Amount	Note	Unit Cost	Extended Amount	Note	Unit Cost	Extended Amount	Note	Unit Cost	Extended Amount	Note	Unit Cost	Extended Amount	Note
Items in Base Bid (excluding Allowances) per Section 01 29 01 "Measurement and Basis for Payment"																							
A-01	MOBILIZATION			1	LS	50,000.00	50,000.00		61,050.00	61,050.00		28,000.00	28,000.00		100,000.00	100,000.00		35,000.00	35,000.00		40,000.00	40,000.00	
A-02	TRENCH SAFETY			1	LS	1,000.00	1,000.00		1,500.00	1,500.00		1,000.00	1,000.00		2,000.00	2,000.00		10,000.00	10,000.00		250.00	250.00	
A-03	INSTALLATION OF ARSENIC TREATMENT SYSTEM			1	LS	40,000.00	40,000.00		110,000.00	110,000.00		175,000.00	175,000.00		43,437.00	43,437.00		55,000.00	55,000.00		9,750.00	9,750.00	
A-04	CONCRETE, CANOPY, SITE WORK AND YARD PIPING			1	LS	410,437.00	410,437.00		296,887.00	296,887.00		265,000.00	265,000.00		225,000.00	225,000.00		420,000.00	420,000.00		493,437.00	493,437.00	
A-05	ELECTRICAL AND INSTRUMENTATION			1	LS	50,000.00	50,000.00		55,000.00	55,000.00		100,000.00	100,000.00		50,000.00	50,000.00		55,000.00	55,000.00		50,000.00	50,000.00	
A	Total Base Bid Items Amount (excluding Allowances)						\$ 551,437.00			\$ 524,437.00			\$ 569,000.00			\$ 420,437.00			\$ 575,000.00			\$ 593,437.00	
Allowances in Base Bid per Section 01 23 10 "Alternates and Allowances"																							
D-01	ARSENIC TREATMENT SYSTEM			1	LS	540,388.00	540,388.00		540,388.00	540,388.00		540,388.00	540,388.00		540,388.00	540,388.00		540,388.00	540,388.00		540,388.00	540,388.00	
D-02	OWNER-DIRECTED ITEMS			1	LS	25,000.00	25,000.00		25,000.00	25,000.00		25,000.00	25,000.00		25,000.00	25,000.00		25,000.00	25,000.00		25,000.00	25,000.00	
D	Total Allowance Amount						\$ 565,388.00			\$ 565,388.00			\$ 565,388.00			\$ 565,388.00			\$ 565,388.00			\$ 565,388.00	
E	Total Base Bid with Allowances						\$ 1,116,825.00			\$ 1,089,825.00			\$ 1,134,388.00			\$ 985,825.00			\$ 1,140,388.00			\$ 1,158,825.00	
Alternates bid items per Section 01 23 10 "Alternates and Allowances"																							
I-01	ADDITIONAL MEDIA			1	LS	131,175.00	131,175.00		131,175.00	131,175.00		131,175.00	131,175.00		131,175.00	131,175.00		131,175.00	131,175.00		131,175.00	131,175.00	
J	Total Alternates Amount						\$ 131,175.00			\$ 131,175.00			\$ 131,175.00			\$ 131,175.00			\$ 131,175.00			\$ 131,175.00	
K	Total Base Bid with Allowances and Alternates						\$ 1,248,000.00			\$ 1,221,000.00			\$ 1,265,563.00			\$ 1,117,000.00			\$ 1,271,563.00			\$ 1,290,000.00	
Contract Time																							
L	Offeror agrees to reach Substantial Completion in						420 days			420 days			420 days			420 days			420 days			420 days	
M	Offeror agrees to reach Final Completion in						450 days			450 days			450 days			450 days			450 days			450 days	



AGENDA ITEM SUMMARY FORM

MEETING DATE: April 19, 2022

PREPARED BY: Lindsay Koskiniemi, CGFO, CPM, Assistant Director of Development Services

AGENDA CONTENT: Discussion and possible action on a request from Riverway Properties and Baker & Lawson for a waiver of the preliminary acceptance of public improvements for Phase Two of the Riverwood Ranch Subdivision and public improvement acceptance by the City of Angleton.

AGENDA ITEM SECTION: Regular Agenda

BUDGETED AMOUNT: N/A

FUNDS REQUESTED: N/A

FUND: N/A

EXECUTIVE SUMMARY:

This item is a request from Riverway Properties and Baker & Lawson for the acceptance of public improvements for phase two of the Riverwood Ranch subdivision and a consideration of a waiver of the preliminary acceptance of public improvements with a one-year maintenance bond.

The second phase of this subdivision has 109 lots spanning 19.793 acres. The construction of the first phase of lots and public improvements is complete, and public improvements for phase one were accepted in 2021.

Staff completed a preliminary inspection of phase two on 12 April 2022 and compiled a short punch list of observed items to be remediated. Inspection participants included the project contractor, Matula & Matula, the project engineering/design consultant, Baker & Lawson, and City staff members from the Public Works, Development Services, and Engineering Departments

A condition of acceptance included receipt of an arborist opinion on backfill within drip lines of heritage trees. Prior to the final walk-through inspection, the City received passing bacterial test reports, vacuum tests results and record drawings.

Public Improvement Acceptance and Preliminary Acceptance Waiver Request: The public improvements acceptance process, as described in Section 23-98(l) is a two-step process consisting of:

1. Preliminary acceptance with a minimum one-year maintenance bond as an administrative act by the City Manager after recommendation by the City Engineer; and

2. Final acceptance (with a one-year maintenance bond) by City Council after recommendation from the City Manager and City Engineer at least one year after preliminary acceptance.

Prior to the adoption of the LDC, the public improvement acceptance process consisted of final acceptance with a one-year maintenance bond.

Acceptance of Public Improvements: Upon review of the final walkthrough punch list and associated documents, the City's Engineer takes no objection to the request for final acceptance of public improvements for the Riverwood Ranch Section 2 Subdivision conditionally meeting exceptions noted which include:

- 1) Developer to provide proof that there are no outstanding judgements or liens against the improvements within the public rights-of-way or against property on which easements contain public improvements.
- 2) Developer must provide TDLR certifications of compliance with Texas Accessibility Standards.
- 3) Completion and correction of minor items notes are being coordinated and shall be completed as a condition of final acceptance.

RECOMMENDATION:

City staff recommends approval of a waiver of preliminary acceptance of public improvements with a one-year maintenance bond and acceptance of public improvements for phase two with all exceptions noted by City Engineer corrected as conditions of final acceptance.

April 19, 2022

Mr. Walter Reeves
Director of Development Services
City of Angleton
121 S. Velasco
Angleton, TX 77515

Re: On-Going Services
Public Improvements Acceptance of Riverwood Ranch Section 2 Subdivision
Angleton, Texas
HDR Job No. 10283980

Dear Mr. Reeves:

HDR Engineering, Inc. (HDR) is in receipt of the request for Public Acceptance of the Riverwood Ranch Section 2 Subdivision public improvements in accordance with the Angleton Land Development Code (LDC) Sec. 23-98 – Public Improvements Acceptance. The following are exceptions noted in review of the Public Acceptance Process Criteria:

1. A Final Inspection walkthrough was performed on April 12, 2022 to review and verify the public improvements were constructed per the approved plat and plans. A Final Inspection report was generated for items to be completed and or corrected. Completion and correction of minor items noted are being coordinated and shall be completed as a condition of the Final Acceptance.
2. During the Final Inspection Walkthrough, a portion of concrete street paving near STA. 4+35 of the left lane on Bennet Loop was noted to have cracking. Public Works has directed the Contractor (Matula & Matula Construction, Inc.) to crack seal this area at this time and that a review of this panel and other street portions shall be provided 1-month prior to the end of maintenance period covered by bonding. Replacement of this concrete panel will be dependent on review of the cracking and if this deficiency has increased over the 1-year period.
3. A pdf set of As-Built (Record Drawing) plans dated April 18, 2022 by the Engineer of Record have been received by the City. It is noted that the proposed sidewalks shall be completed by the Homebuilder as shown on the plans. As a condition of the Final Acceptance, an electronic set of the As-Built plans shall be submitted in a GIS compatible format.
4. Testing reports as noted by Angleton LDC Sec. 23-98 have been received. No additional action is required for these items.
5. A Maintenance Bond has been provided by the Contractor and shall be filed with the City in accordance to the Angleton LDC Sec. 23-98.
6. As a condition of Final Acceptance, the Developer shall provide proof that there are no outstanding judgements or liens against the improvements within the public rights-of-way or against property on which easements contain public improvements.

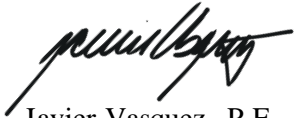
7. As a condition of Final Acceptance, for the portion of public sidewalks constructed, the Developer shall provide the TDLR certification of compliance with Texas Accessibility Standards per LDC Sec. 23-14. A.5 Sidewalks and Accessibility.
8. A Final Plat, approved and filed with Brazoria County, shall be provided to include with the submitted and attached Record Drawings.

HDR takes no objection for the request of Final Acceptance for Public Improvements for the Riverwood Ranch Section 2 Subdivision with the exceptions noted. Please note that HDR has only reviewed the improvements for consistency with the Final Plat and Construction Plans and the general conformance of public improvements to the City requirements. It is noted that this does not release the Developer of any liability resulting from non-conformance of these items.

If you have any questions, please feel free to contact us at our office (713)-622-9264.

Sincerely,

HDR Engineering, Inc.



Javier Vasquez, P.E., CFM
City Engineer Representative

cc: Files (10283980)

ENGINEER'S CERTIFICATE OF COMPLETION

Project: RIVERWOOD RANCH SUBDIVISION, SECTION 2
DOWNING STREET
ANGLETON TEXAS

Owner: JOHN SANTASIERO
RIVERWAY PROPERTIES
1027 YALE STREET
HOUSTON, TEXAS 77008

Type of Facilities Constructed:
PAVING, GRADING, UTILITIES AND DRAINAGE
FOR RIVERWOOD RANCH, SECTION 2

Contractor: JAMES MICHAEL MURPHY
MATULA & MATULA CONSTRUCTION, INC.
122 WEST WAY SUITE 325
LAKE JACKSON TEXAS 77566
JMMURPHY@MATULAINC.COM
979-480-0030

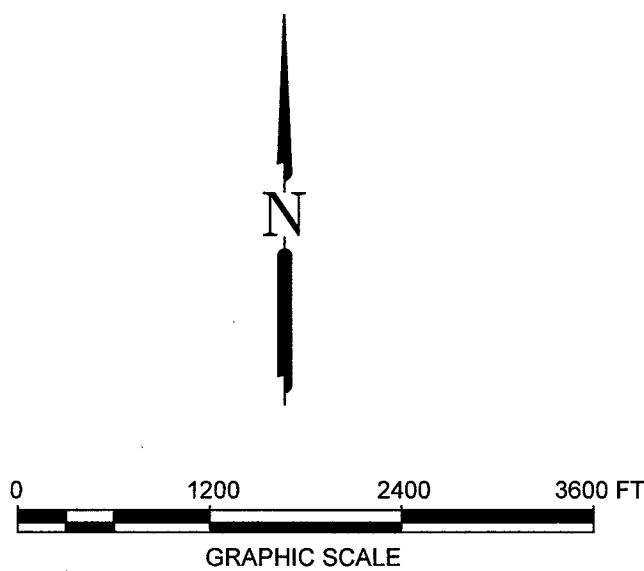
Consulting Engineer: DOUGLAS B. ROESLER, P.E.
BAKER & LAWSON ENGINEER
300 E. CEDAR STREET
ANGLETON TX 77515
droesler@bakerlawson.com
979-849-6681

I, DOUGLAS B. ROESLER, P.E., hereby certify that I am a Registered Professional Engineer in the State of Texas. I certify this project was completed on the 12th day of April 2022 at the listed address above. The project was completed in conformance to the plans and specifications and in my professional opinion, is in compliance with the City of Angleton's Approved Plans. The project is ready for Final Inspection by the City Engineer. The "As-Built" drawings will be furnished to the office of the City Engineer of the City of Angleton within 15 calendar days of the date this certification is signed.

Signature: 

Date: 04-18-22

CONSTRUCTION OF
PAVING, DRAINAGE AND UTILITIES ON
RIVERWOOD RANCH SUBDIVISION
3 BLOCKS, 109 LOTS
SECTION 2
FOR THE
CITY OF ANGLETON
BRAZORIA COUNTY
B&L JOB No. 14395



CITY OF ANGLETON

MAYOR
JASON PEREZ

INTERIM CITY MANAGER
CHRIS WHITTAKER

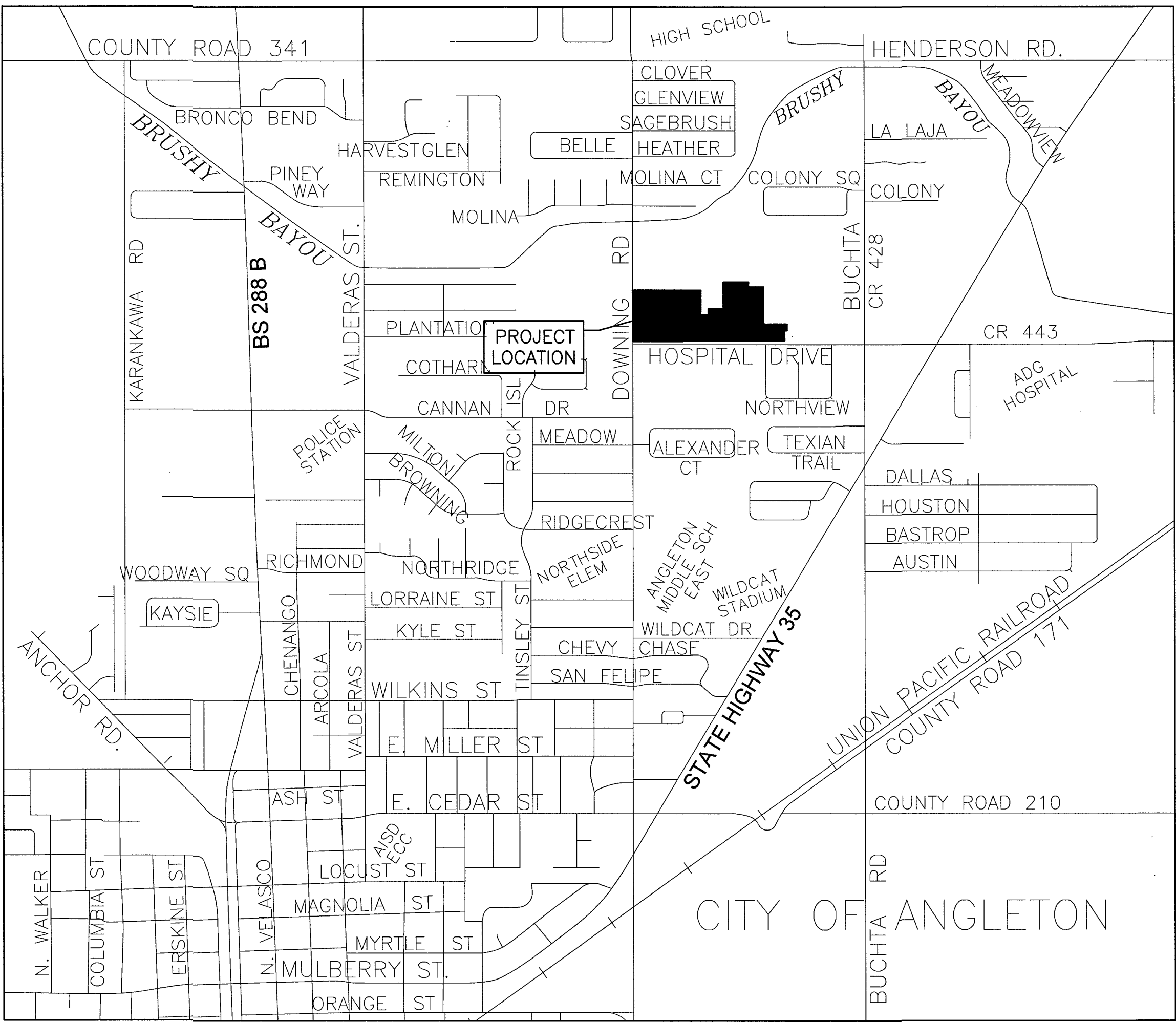
CITY COUNCIL

MIKEY SVOBODA
CECIL BOOTH
JOHN WRIGHT
MARK GONGORA
TRAVIS TOWNSEND

This subdivision lies within the Brushy Bayou Watershed.

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

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



INDEX OF DRAWINGS

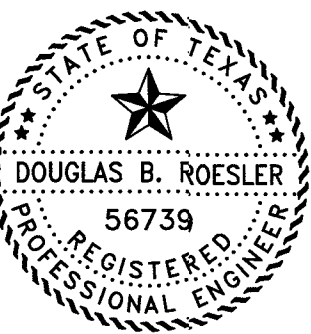
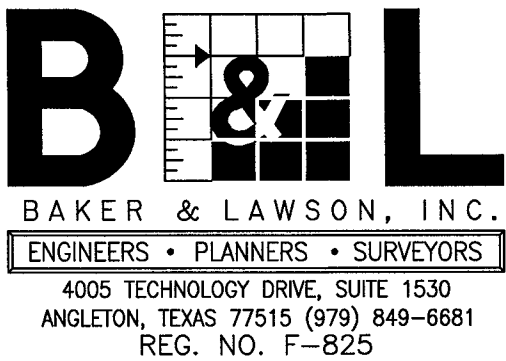
SHEET NO.	SHEET NAME
1	TITLE SHEET
-	PRELIMINARY REPLAT
-	FINAL REPLAT
2	CONSTRUCTION NOTES
3	EXISTING CONDITIONS & DEMOLITION
4	DRAINAGE AREA MAP
5	LOT GRADING PLAN
6	UTILITY PLAN
7	PLAN & PROFILE - CULLEN STREET STA 0+00 TO 2+09
8	PLAN & PROFILE - BENNETT LOOP STA 0+00 TO 5+00
9	PLAN & PROFILE - BENNETT LOOP STA 5+00 TO 10+60
10	PLAN & PROFILE - BENNETT LOOP STA 10+60 TO 16+00
11	PLAN & PROFILE - BENNETT STREET STA 16+00 TO 21+00
12	PLAN & PROFILE - BENNETT STREET STA 21+00 TO 26+80
13	PLAN & PROFILE - AMY STREET STA 0+00 TO 3+80
14	PLAN & PROFILE - AMY STREET STA 3+80 TO 7+35
15	PLAN & PROFILE - HOSPITAL LANE STA 0+00 TO 2+00
16	PLAN & PROFILE - OUTFALL 1 STA 0+00 TO 5+00
17	PLAN & PROFILE - OUTFALL 2 STA 0+00 TO 5+00
18	PLAN & PROFILE - OUTFALL 3 STA 0+00 TO 3+00
19	SWPPP LAYOUT
20	SWPPP NARRATIVE
21	HYDROLOGICAL CALCULATIONS
22	CUT AND FILL PLAN
22B	SECTION 1 & 2 POND EXCAVATION CALCULATION PLAN
23	WINDSTORM DATA
24	WINDSTORM DATA
25	PAVEMENT MARKING, STREET SIGN AND ROADWAY LIGHTING LAYOUT
26	TRAFFIC CONTROL PLAN - TCP (1-1) - 18
26A	HERITAGE TREE PRESERVATION PLAN

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29 (SL-08)	STORM SEWER INLET CONSTR. DETAILS II
30 (SL-09)	STORM SEWER INLET CONSTR. DETAILS III
31 (SL-10)	STORM SEWER CONSTR. DETAILS
32 (SL-11)	JUNCTION BOX MANHOLES
33 (SL-14)	SANITARY SEWER CONSTR. DETAILS
34 (SL-15)	WATER LINE CONSTR. DETAILS
35 (SL-16)	WATER LINE CROSSING DETAILS
36 (SL-19)	WATER LINE, SAN. SEW. F.M. BEDDING DETAILS
37 (SL-20)	STORM SEW. BEDDING AND BACKFILL DETAILS
38 (SL-21)	CONCRETE PAVEMENT CONSTR. DETAILS
39 (SL-22)	CONCRETE PAVEMENT CONSTR. DETAILS
40 (SL-23)	RESIDENTIAL CURB CONSTR. DETAILS
41 (SL-25)	WHEEL CHAIR RAMP & SIDEWALK DETAILS I
42 (SL-26)	WHEEL CHAIR RAMP & SIDEWALK DETAILS II
43 (SL-27)	DRIVEWAY CONSTR. DETAILS
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45 (SL-34)	EROSION CONTROL DETAILS - 1
46 (SL-35)	EROSION CONTROL DETAILS - 2

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			



The seal appearing on this document was authorized by Douglas B. Roesler, P.E. 56739, dated 04-18-22.

OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

PLAN:
PROFILE:
HORIZONTAL:
VERTICAL:

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

TITLE SHEET

PROJECT NO. 14395

GENERAL CONSTRUCTION NOTES

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

CONSTRUCTION NOTES FOR PAVING & DRAINAGE

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

- RATE OF APPLICATION FOR LIME SHALL BE SEVEN PERCENT (7%) OF THE DRY WEIGHT OF SOIL (QUALITY BASE ON 100 #/ C.F.) OR THIRTY ONE AND ONE HALF (31.5) POUNDS PER SQUARE YARD FOR SIX (6) INCH STABILIZED SUBGRADE. LIME STABILIZED SUBGRADE SHALL NOT BE MIXED MORE THAN ONE INCH IN EXCESS OF THE REQUIRED DEPTH. LIME STABILIZED SUBGRADE SHALL BE BROUGHT TO THE OPTIMUM MOISTURE CONTENT DURING THE FIRST MIXING OPERATIONS THEN LEFT TO CURE FOR TWO CURING DAYS BEFORE FINAL MIXING CAN BEGIN. AFTER FINAL MIXING IS COMPLETED AND BEFORE SOIL DENSITY TESTS ARE TAKEN, LIME STABILIZED SUBGRADE SHALL BE BROUGHT TO THE REQUIRED GRADE BY THE USE OF GRADE STAKES (BLUE TOPS) AND APPROVED BY THE ENGINEER. DENSITY SHALL BE NINETY-FIVE PERCENT (95%) OF THE STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE. TESTED AND COMPLETED SECTIONS SHALL BE KEPT MOST CURED ON A DAILY BASIS WITH WATER TRUCKS OR SUBSTANTIAL SUPPLY HOSES FOR THE ENTIRE PERIOD THE SURFACE REMAINS UNCOVERED WITH ADDITIONAL COURSES. AFTER FINAL TESTING AND APPROVAL IS COMPLETE, TRACK EQUIPMENT, SCRAPERS AND OTHER HEAVY EQUIPMENT WILL NOT BE PERMITTED ON THE COMPLETED LIME STABILIZED AREA. LIGHT MOTOR GRADERS, RUBBER Tired TRACTORS, WATER TRUCKS AND ROLLERS USED IN THE FINISHING OPERATIONS WILL BE PERMITTED WITH THE APPROVAL OF THE ENGINEER. CONCRETE AND LOADED HAUL TRUCKS ARE STRICTLY PROHIBITED ON COMPLETED AREAS UNLESS THE TRAVELED AREA REGARDLESS OF CONDITION IS REMIXED COMPACTED AND TESTED FOR APPROVAL A SECOND TIME.
- FORMS SHALL BE EITHER WOOD OR STEEL, OF GOOD QUALITY, FREE OF WARP AND SUFFICIENTLY STAKED TO AVOID SHIFTING WHEN LOAD IS APPLIED. ALL REDWOOD EXPANSION BOARDS SHALL BE STAKED WITH 1X2 REDWOOD STAKES AND ALLOWED TO REMAIN WITHIN THE FOUR. METAL STAKES ARE APPROVED FOR USE TO STAKE METAL KEYS.
- REINFORCING SHALL BE SECURELY TIED AT ALL INTERSECTIONS AND SPLICES. ALL DOWELS SHALL BE SECURELY TIED. REINFORCEMENT SHALL BE CLEAN AND FREE OF RUST AT TIME OF USE. PLASTIC CHAIR OF THE CORRECT HEIGHT SHALL BE USED. SPACING SHALL BE SUFFICIENT TO SUPPORT REINFORCEMENT.
- PRIOR TO CONCRETE PLACEMENT, CONTRACTOR SHALL PRESENT A CERTIFIED COPY OF TOP OF FORM GRADES TO THE ENGINEER FOR REVIEW AND APPROVAL. ELEVATIONS OF FORMS SHALL BE RECORDED AT 10' INTERVALS. ADJUSTMENTS TO FORMS SHALL BE COMPLETE 4 HRS. PRIOR TO CONCRETE PLACEMENT.
- CONCRETE FOR STREET PAVEMENTS SHALL BE "CLASS A" CONCRETE, SHALL NOT HAVE LESS THAN FIVE AND ONE HALF (5 1/2) SACKS OF CEMENT PER CUBIC YARD, AND SHALL NOT HAVE MORE THAN SIX AND ONE HALF (6 1/2) GALLONS OF WATER PER SACK OF CEMENT. SLUMP SHALL NOT EXCEED FIVE (5) INCHES AND SHALL DEVELOP A MODULUS OF RUPTURE STRENGTH OF TWO THOUSAND FIVE HUNDRED (2500) P.S.I. AT TWENTY EIGHT (28) DAYS. CONCRETE SHALL BE PLACED IN SUCH A MANNER AS TO REQUIRE AS LITTLE HANDLING POSSIBLE. USE OF AN APPROVED VIBRATING SCREED WILL BE REQUIRED. AT INTERSECTIONS AND SMALL AREAS WHERE A VIBRATORY SCREED CAN NOT BE USED, A HAND VIBRATOR OR "JITTERBUG" SHALL BE USED. USE OF A TEN FOOT (10') CONCRETE PAVEMENT STRAIGHT EDGE WILL ALSO BE REQUIRED. ALL EXPOSED JOINTS SHALL BE EDGED AS NOTED ON DETAILS. SURFACE SHALL BE TYPICALLY A BELT FINISH OR BROOM FINISH (COARSE, MEDIUM OR LIGHT) AS REQUIRED BY THE APPLICATION AND DIRECTED BY THE ENGINEER.
- FLY ASH SHALL MAKE UP FROM 20-25% BY VOLUME OF THE SPECIFIED CEMENT VOLUME AND SHALL CONFORM TO ASTM C 618, CLASS F.
- CURING COMPOUND SHALL BE TYPE II WITH WHITE PIGMENT. APPLIED AT THE UNDILUTED RATE OF ONE GALLON PER TWO HUNDRED (200) SQUARE FEET.
- EXPANSION JOINTS SHALL BE CLEANED, WIRE BRUSHED, BLOWN OR FLAME DRIED SEALED WITH AN APPROVED LIST RUBBERIZED HOT LAID ASPHALT JOINT AND CRACK SEALANT OR A TWO (2) COMPONENT POLYMERIC SELF LEVELING COLD APPLIED SEALANT.
- CONTRACTOR WILL NOT PERMIT TRAFFIC ON NEW CONCRETE PAVEMENT UNTIL BOTH A MINIMUM OF SEVEN (7) CURING DAYS AND MODULUS OF RUPTURE STRENGTH OF THIRTY THOUSAND FIVE HUNDRED (3500) P.S.I. TAKES PLACE OR AS APPROVED BY THE ENGINEER/PUBLIC WORKS DEPARTMENT.
- CONCRETE FOR CURB SHALL BE A 3000 P.S.I. PERFORMANCE STRENGTH CONCRETE WITH A MINIMUM FIVE (5) SACK CEMENT PER CUBIC YARD CONTENT. CURB CONCRETE MIX MAY BE A SMALL AGGREGATE BATCH DESIGN.
- A CONCRETE MIX DESIGN OF CONCRETE PLUS FLY ASH MAY BE SUBSTITUTED IN LIEU OF THE STANDARD CONCRETE BATCH DESIGN. THE FLY ASH SHALL CONFORM TO THE REQUIREMENTS OF TxDOT MATERIAL SPECIFICATION D-9-8900, AND SHALL NOT EXCEED 25% BY ABSOLUTE VOLUME OF THE SPECIFIED CEMENT CONTENT. THE MODULUS OF RUPTURE STRENGTHS MINIMUMS AND DEVELOPMENT PERIOD OF THE STANDARD CONCRETE MIX DESIGN SHALL REMAIN IN EFFECT AND SHALL BE VERIFIED BY A CONCRETE BATCH MIX DESIGN PREPARED AND TESTED BY A GEOTECHNICAL LAB AND SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY ENGINEERING/PUBLIC WORKS DEPARTMENT PRIOR TO PAVING OPERATIONS.
- ALL PAVEMENT SAW CUT REQUIRED IN THE PLANS SHALL BE CONSIDERED SUBSIDIARY TO THE PAVING REMOVAL PAY ITEM REQUIRING IT.
- BLOCK SOD SHALL BE PLACED 16" (ONE BLOCK WIDTH) WIDE ALONG THE EDGE OF ALL NEWLY CONSTRUCTED CURBS AND TO DRIVEWAY REPLACEMENT LIMITS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANALYZING WEATHER CONDITIONS AND TO SUSPEND OPERATIONS DURING PERIODS WHEN ADVERSE WEATHER CONDITIONS APPEAR LIKELY. NO CONCRETE SHALL BE PLACED WHEN THE TEMPERATURE IS 35°F AND RISING. HOWEVER, NO CONCRETE SHALL BE PLACED WHEN THE CONCRETE TEMPERATURE IS ABOVE 100°F. THE CONTRACTOR SHALL KEEP SUFFICIENT LENGTH OF COVERING MATERIAL ON THE JOB SITE TO PLACE OVER AND PROTECT THE SURFACE OF "FRESH" CONCRETE DURING PERIODS OF UNPREDICTED RAINS.
- CUL-DE-SACS TO BE PAVED COMPLETELY WITH NO ISLANDS

WASTEWATER CONSTRUCTION NOTES

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

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

WATER CONSTRUCTION NOTES

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

CENTERPOINT ENERGY / ENTEX NOTES

CAUTION: UNDERGROUND GAS FACILITIES

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

* WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (800) 752-8036 OR (713) 659-2111 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

* WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

* WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

* FOR EMERGENCIES REGARDING GAS LINES CALL (800) 659-2111 OR (713) 659-2111.

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

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

WARNING: OVERHEAD ELECTRICAL FACILITIES

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

SBC NOTES

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

TEXAS NEW MEXICO POWER NOTES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL TEXAS NEW MEXICO POWER AT (979) 829-5776.

OWNER:

RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

PLAN:

PROFILE:

HORIZONTAL:

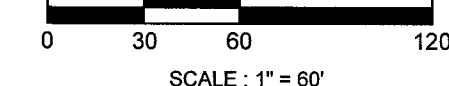
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RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

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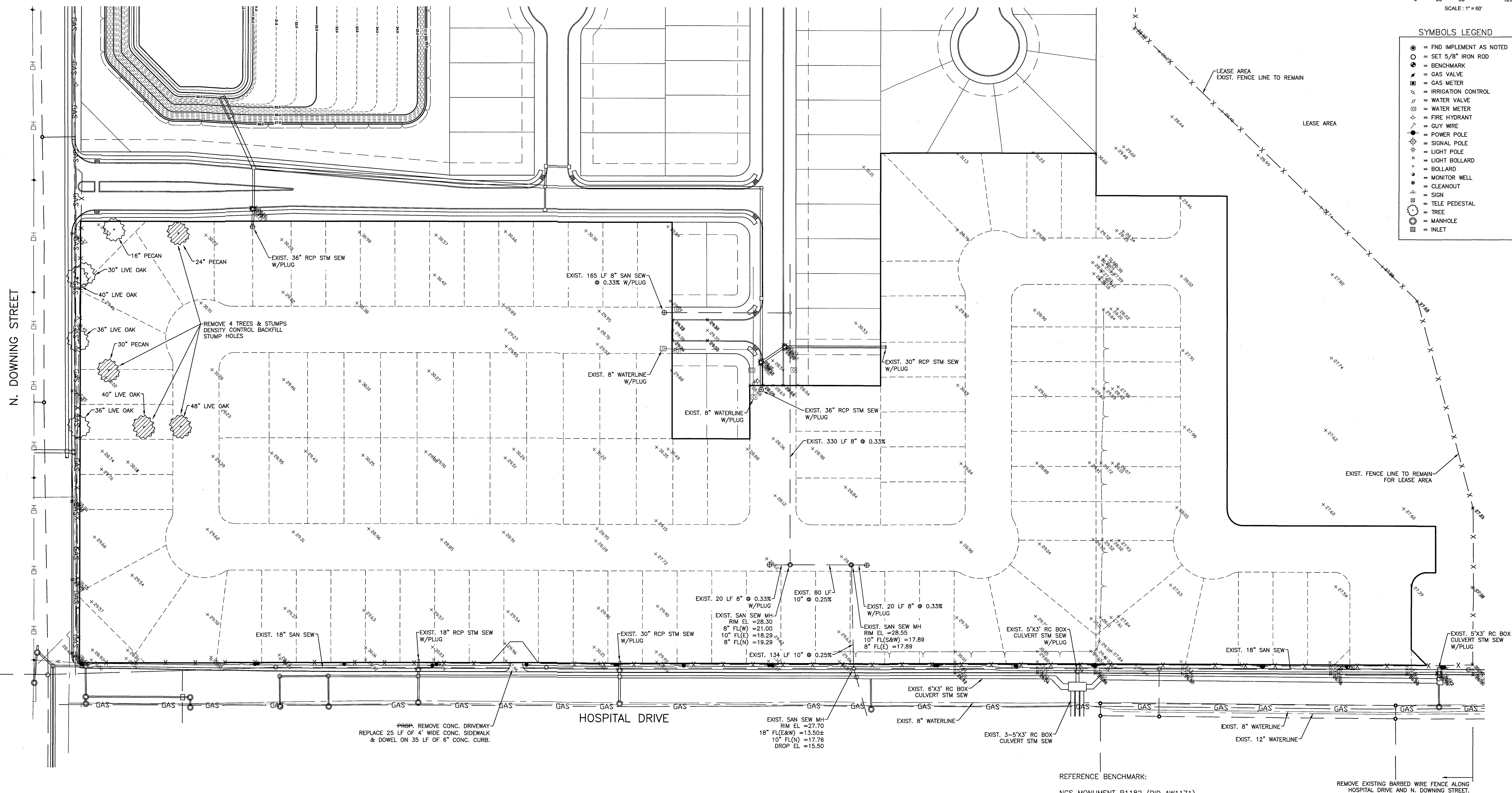
CONSTRUCTION NOTES

PROJECT NO. 14395



SYMBOLS LEGEND

- = FND IMPLEMENT AS NOTED
- = SET 5/8" IRON ROD
- ⊙ = BENCHMARK
- ⊕ = GAS VALVE
- ⊗ = GAS METER
- ⊘ = IRRIGATION CONTROL
- ⊙ = WATER METER
- ⊕ = FIRE HYDRANT
- ⊗ = GUY WIRE
- ⊘ = POWER POLE
- ⊙ = SIGNAL POLE
- ⊕ = LIGHT POLE
- ⊗ = LIGHT BOLLARD
- ⊘ = BOLLARD
- ⊙ = MONITOR WELL
- ⊕ = CLEANOUT
- ⊗ = SIGN
- ⊘ = TELE PEDESTAL
- ⊙ = TREE
- ⊕ = MANHOLE
- ⊗ = INLET



REFERENCE BENCHMARK:

NGS MONUMENT R1182 (PID AW1171)
A BRASS DISK STAMPED R1182, ON THE NORTH LINE OF
CR 171, ON THE CURB OF A BRIDGE, APPROXIMATELY
275 SOUTHWEST OF INTERSECTION WITH CR 428.
ELEVATION = 26.31 FEET NGVD29

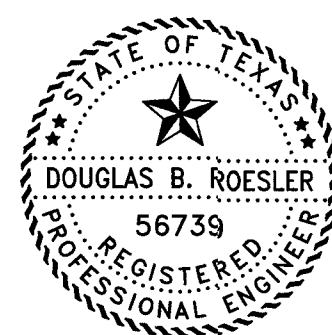
REMOVE EXISTING BARBED WIRE FENCE ALONG
HOSPITAL DRIVE AND N. DOWNING STREET.

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED DR
DRAWN BT
CHECKED
DATE

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



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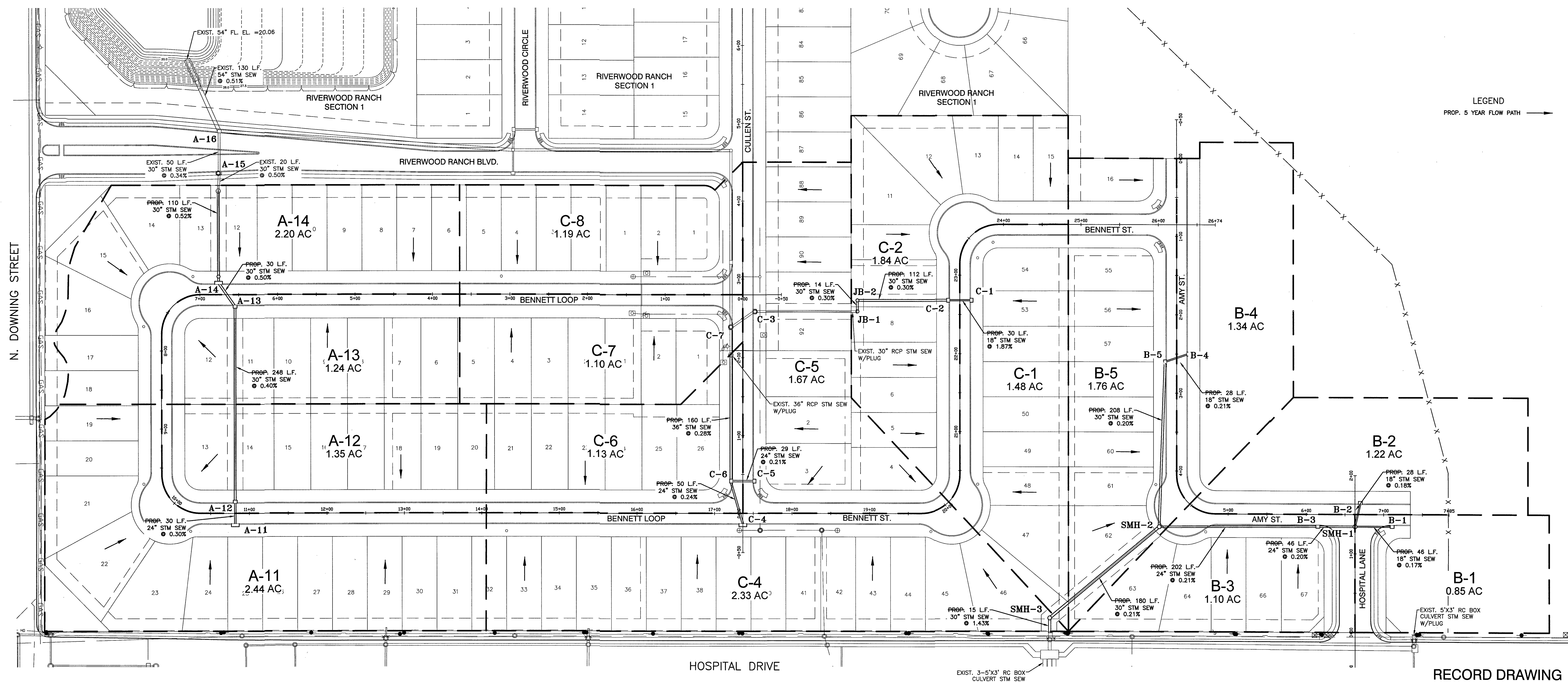
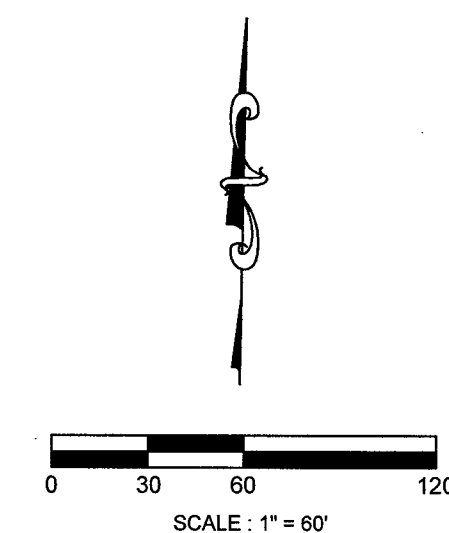
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
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ANGLETON, TEXAS 77515

EXISTING CONDITION
& DEMOLITION

PROJECT NO. 14395

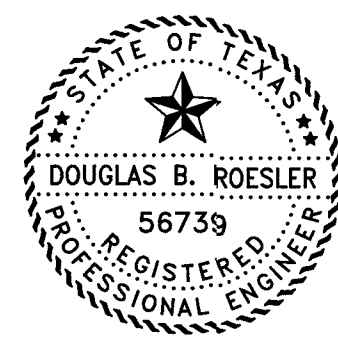
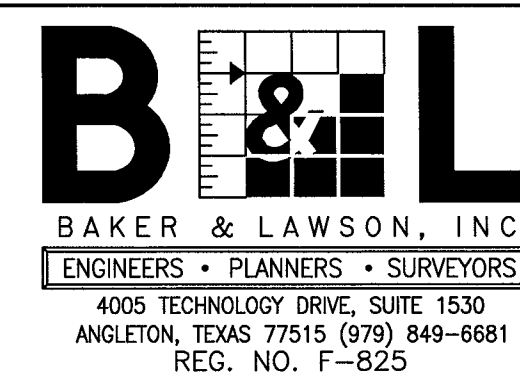


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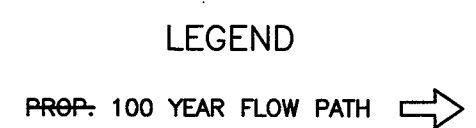
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ANGLETON, TEXAS 77515

DRAINAGE AREA MAP

PROJECT NO. 14395



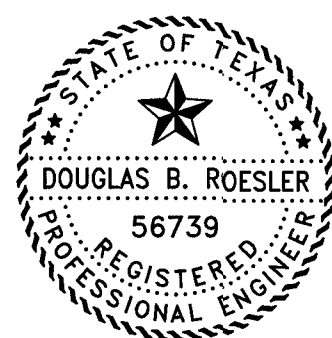
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DATE _____



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**RIVERWAY PROPERTIES
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HOUSTON, TEXAS 77057**

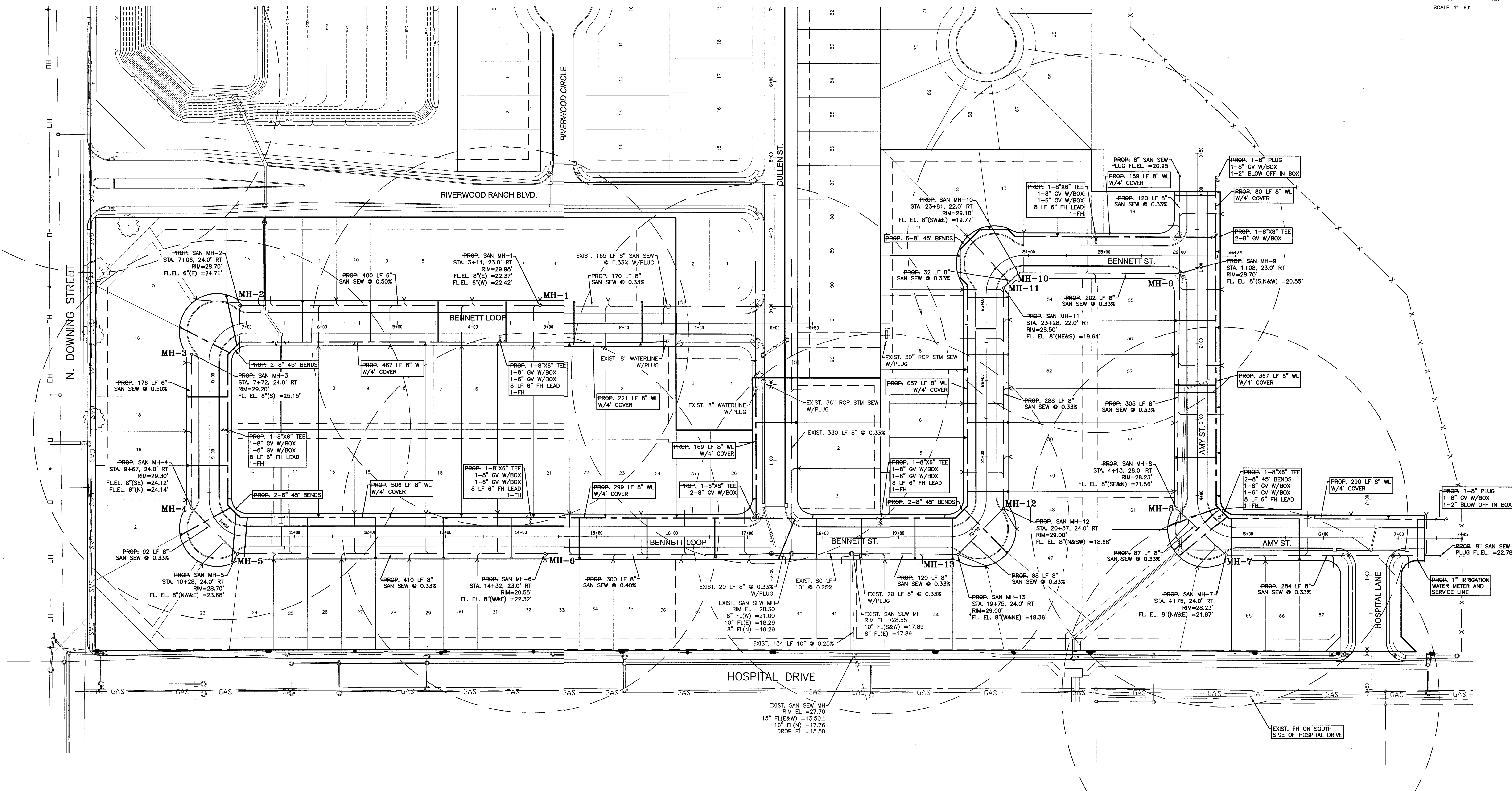
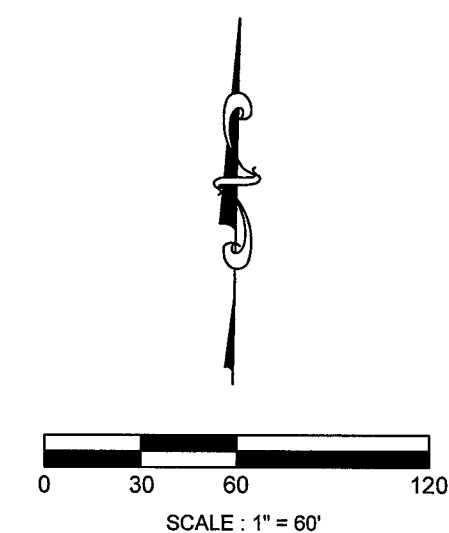
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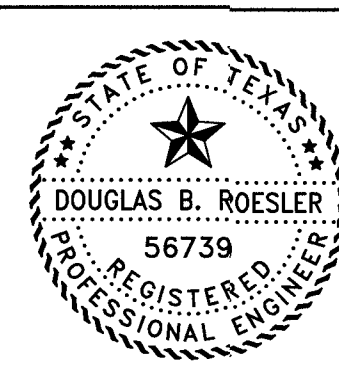
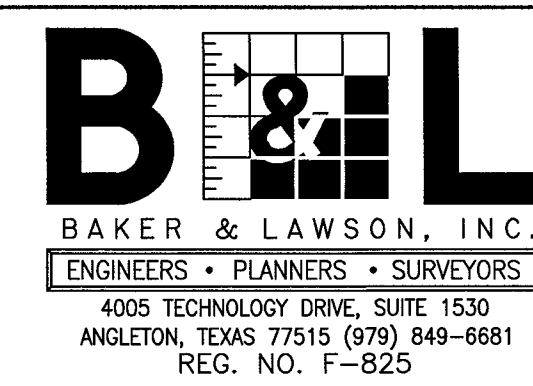
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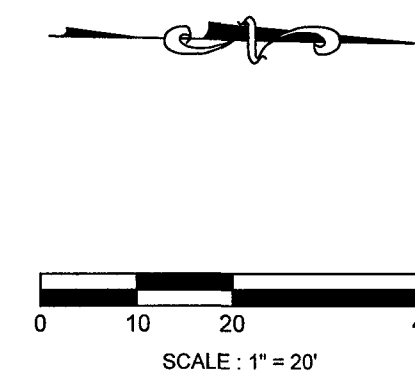
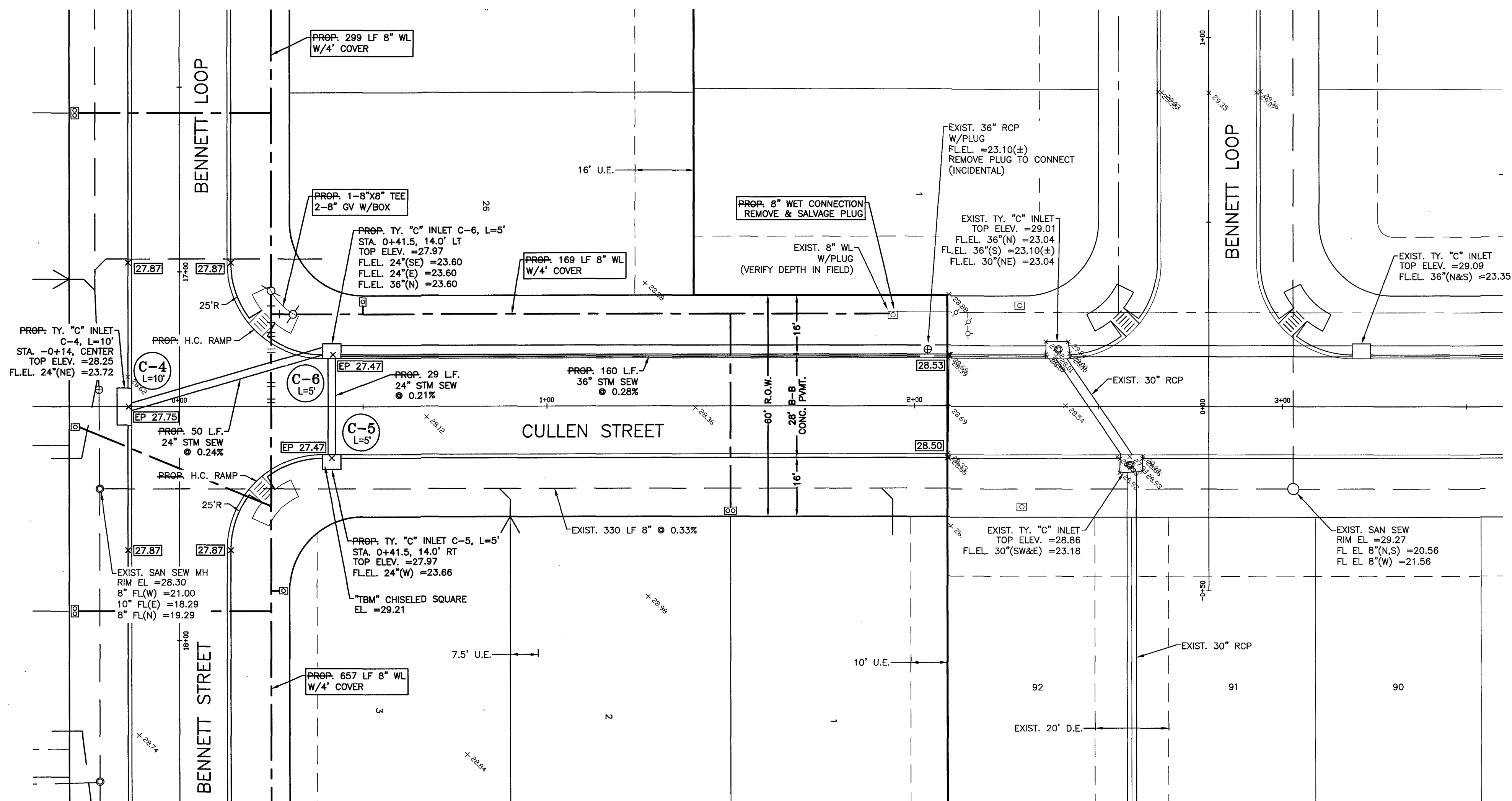
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HORIZONTAL:
VERTICAL:

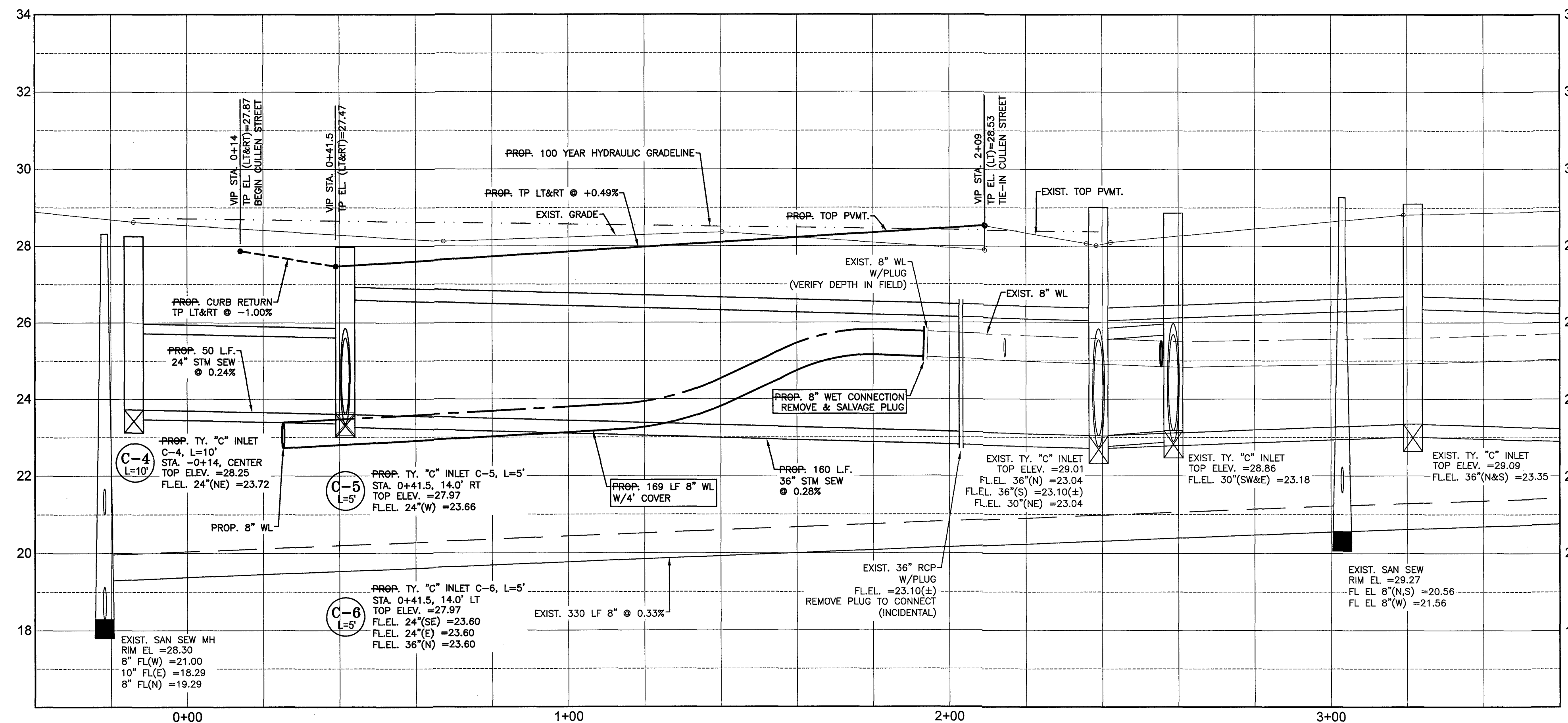
RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

UTILITY PLAN

PROJECT NO. 14395



SEE SHEET 17



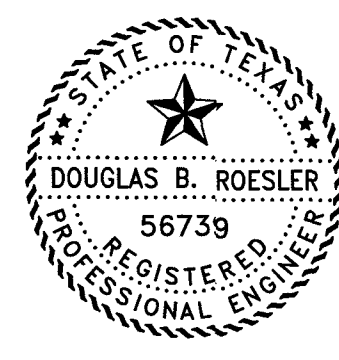
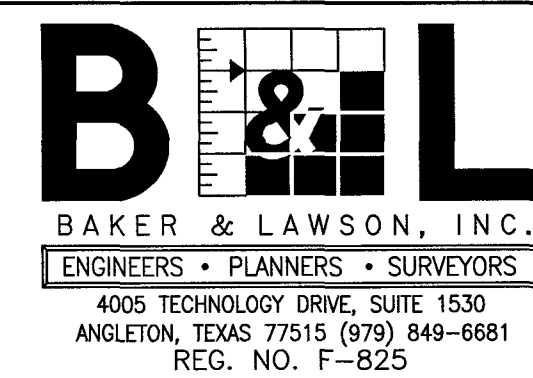
SYMBOLS LEGEND

- WATER METER
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1)
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)
- TOP OF PAVEMENT AT EDGE

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR
 DRAWN BT
 CHECKED
 DATE



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 Date: 04-18-22

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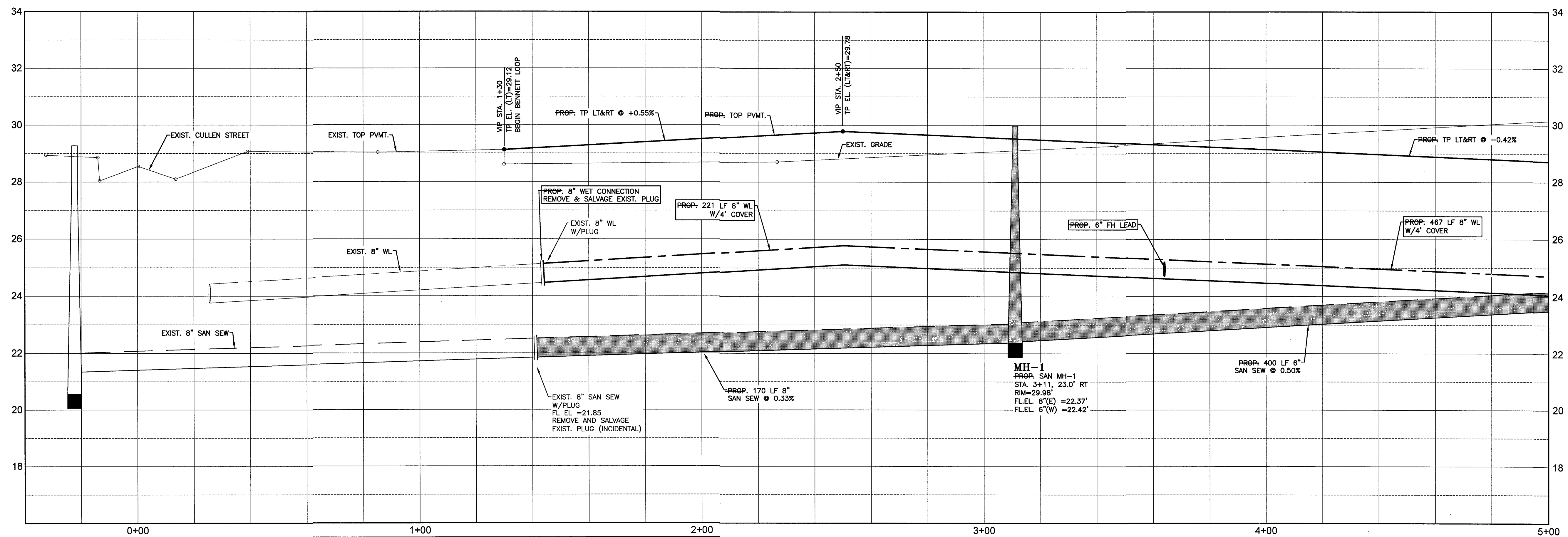
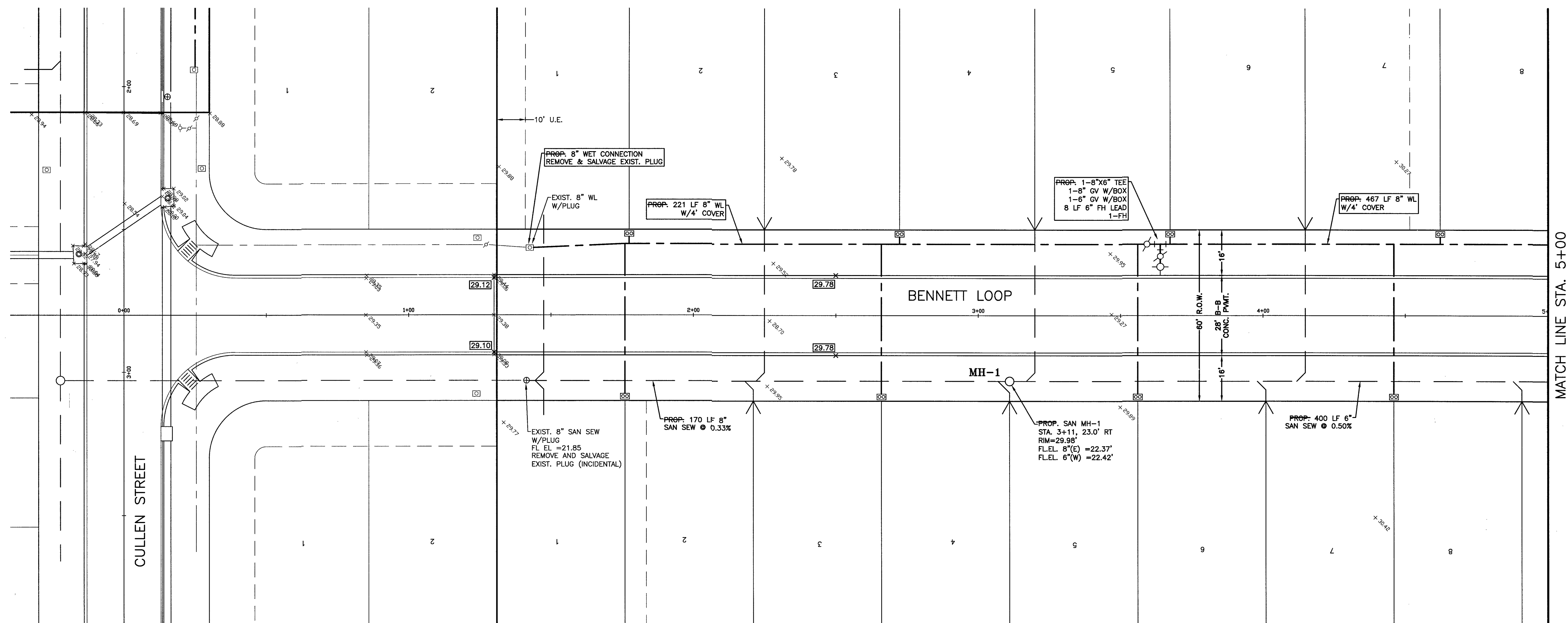
RIVERWAY PROPERTIES
 6115 SKYLINE DR. STE A.
 HOUSTON, TEXAS 77057













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

RIVERWOOD RANCH SUBDIVISION
 SECTION 2
 A 78 AC, 109-LOT SUBDIVISION
 ANGLETON, TEXAS 77515

PLAN & PROFILE
 CULLEN STREET
 STA. 0+00 TO 2+09

PROJECT NO. 14395

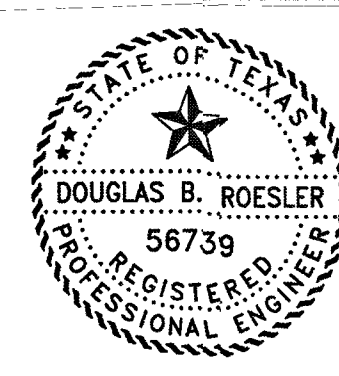
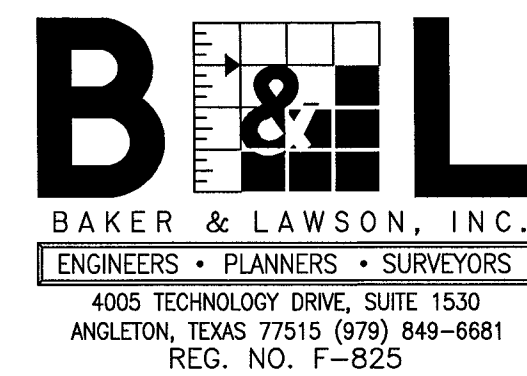



- ## SYMBOLS LEGEND
- | | |
|---|--|
|  | WATER METER |
|  | FIRE HYDRANT |
|  | WATER VALVE |
|  | TAPPING SLEEVE AND VALVE |
|  | REDUCER |
|  | STORM SEWER MANHOLE (SMH-1) |
|  | SANITARY SEWER MANHOLE (MH-1) |
|  | TOP BANK |
|  | STORM SEWER LINE
(REINFORCED CONCRETE PIPE
ASTM C76) |
|  | SANITARY SEWER LINE
(D3034, SDR 26, 160 PR) |
|  | WATERLINE (AWWA C900,
CLASS 150, DR18) |
|  | TOP OF PAVEMENT AT EDGE |

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR
DRAWN BT
CHECKED _____
DATE _____



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P.E. 56739

Date: 04-18-22

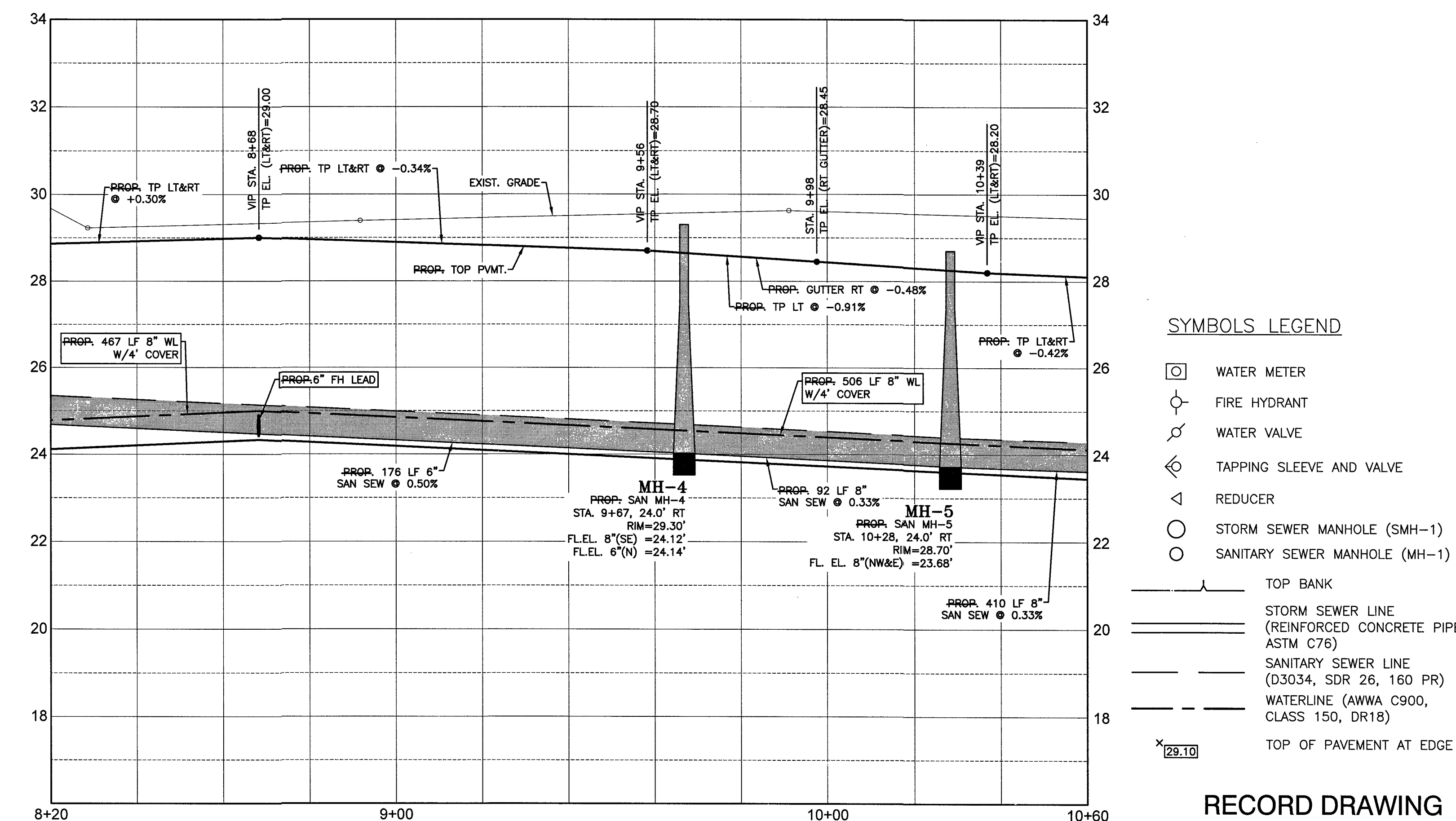
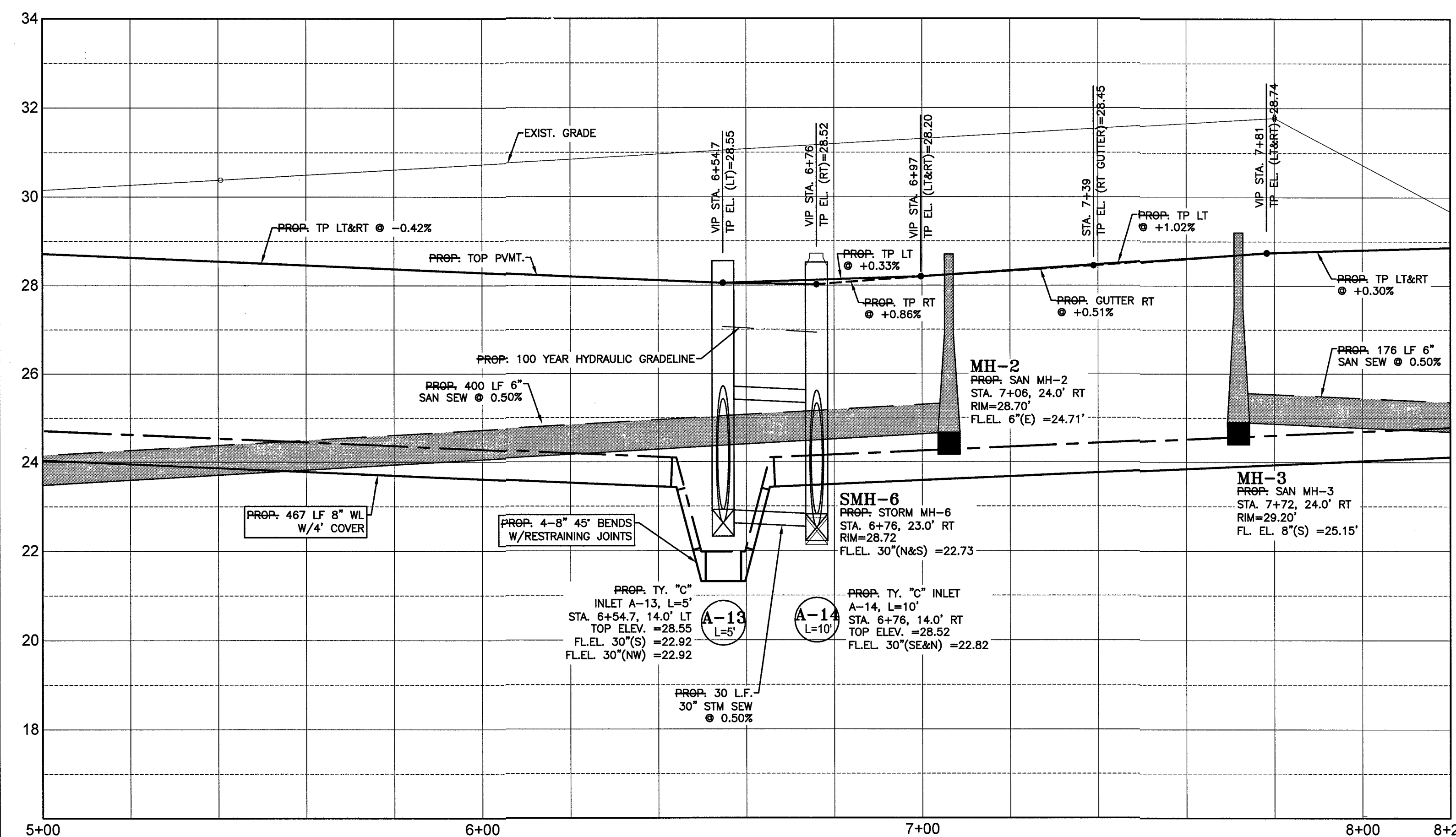
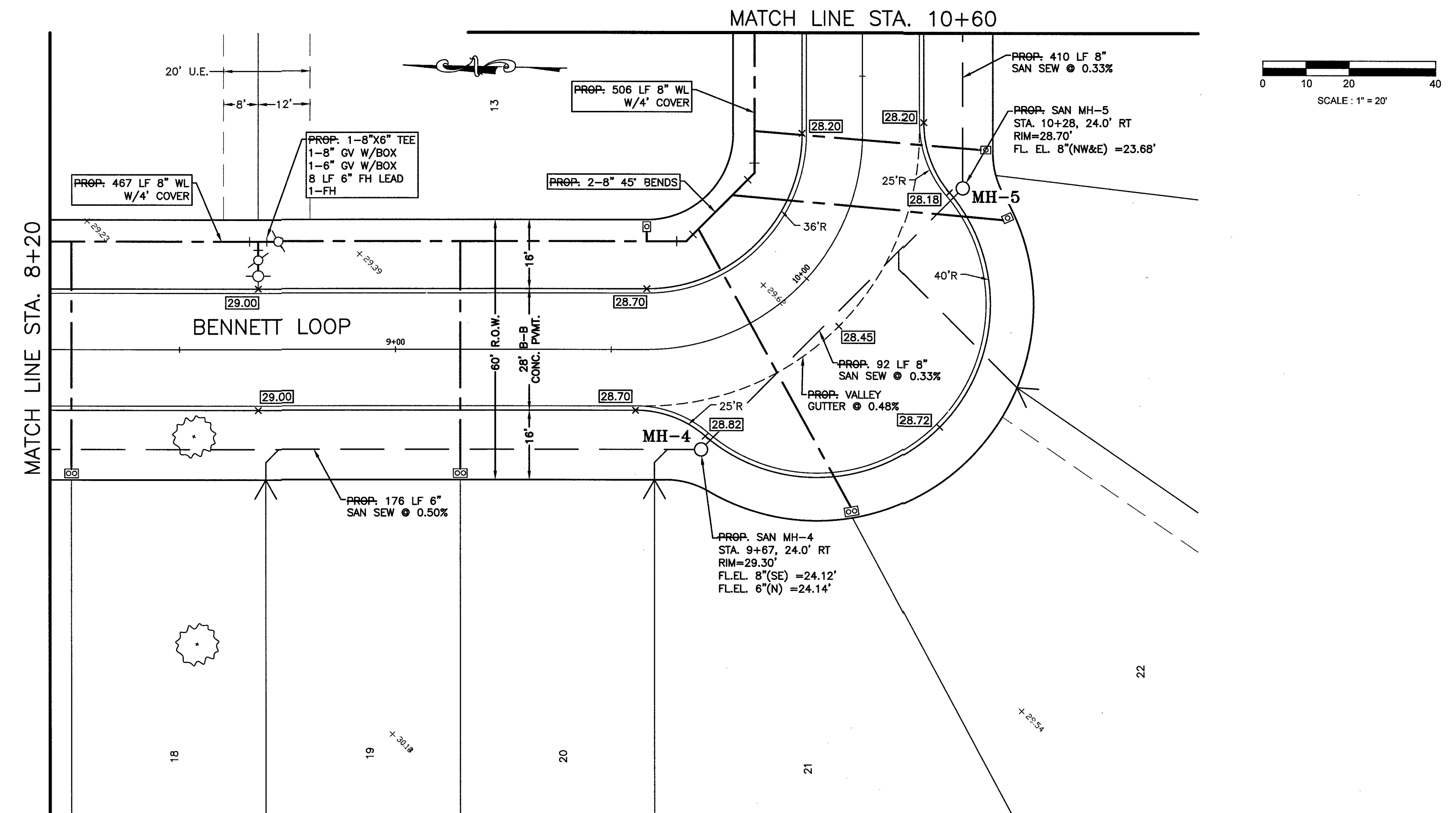
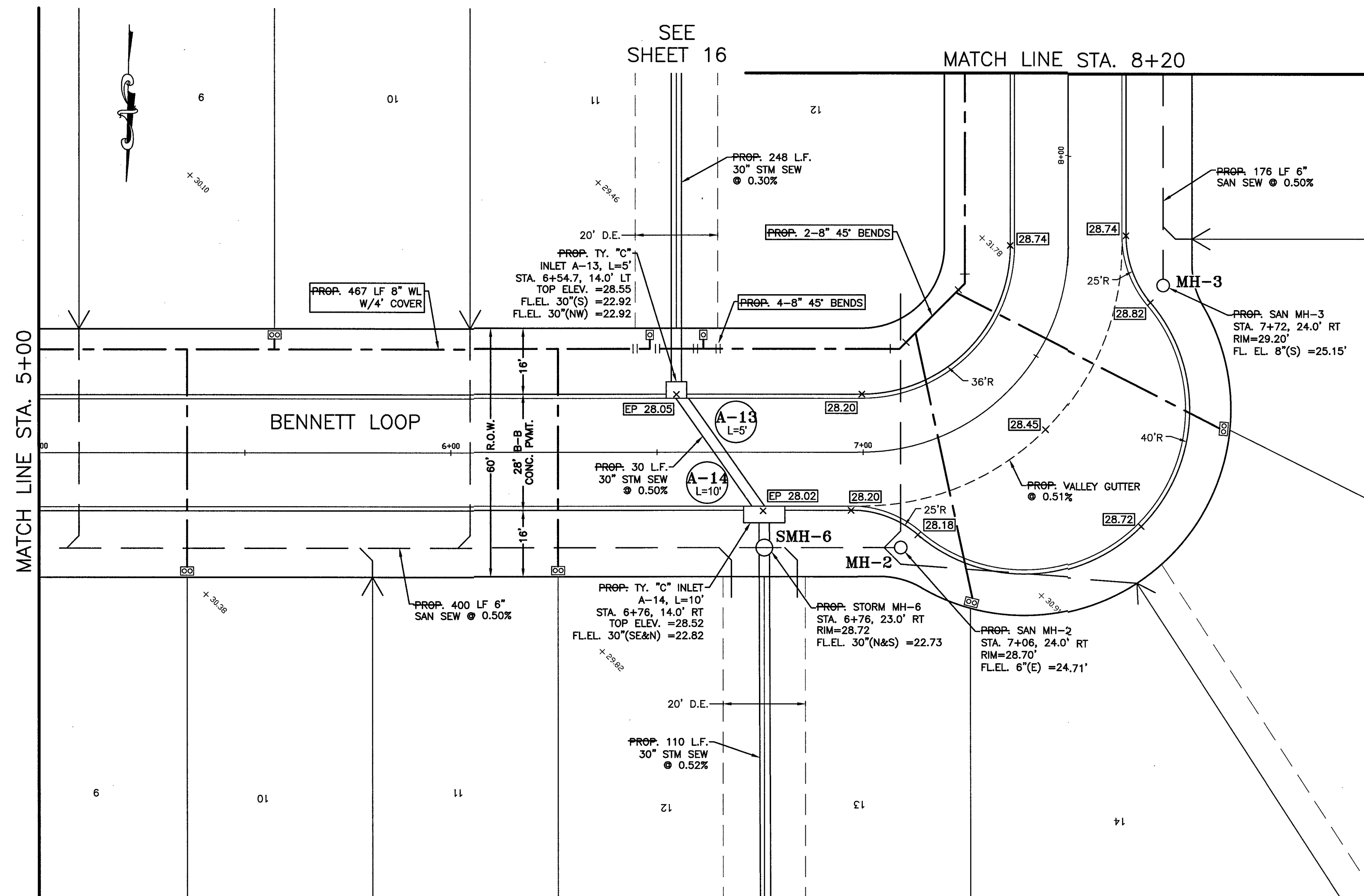
OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
BENNETT LOOP
STA. 0+00 TO 5+00

PROJECT NO. 14395



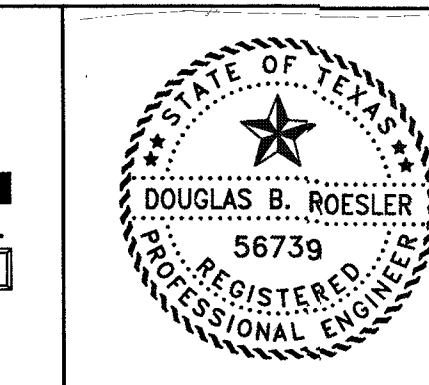
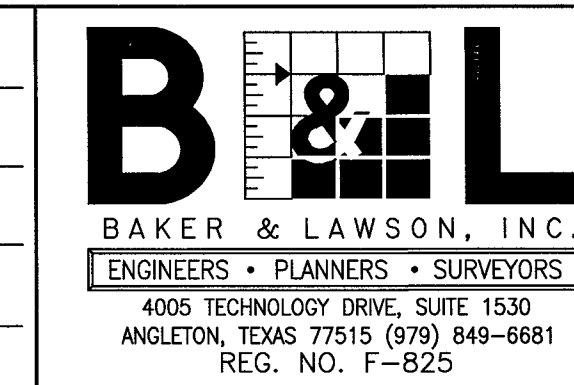
NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR

DRAWN BT

CHECKED _____

DATE _____



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P.F. 56739

[Signature]

Date: 04-18-22

OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

PLAN: _____ 1" = 20'

PROFILE: _____

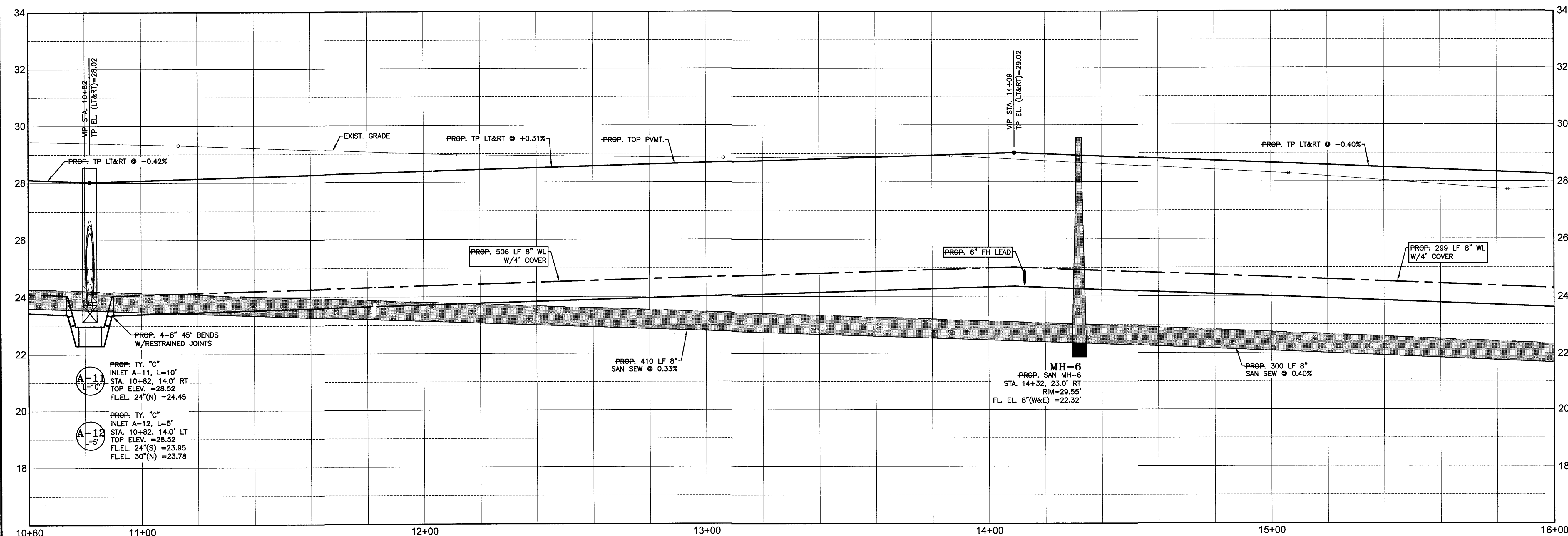
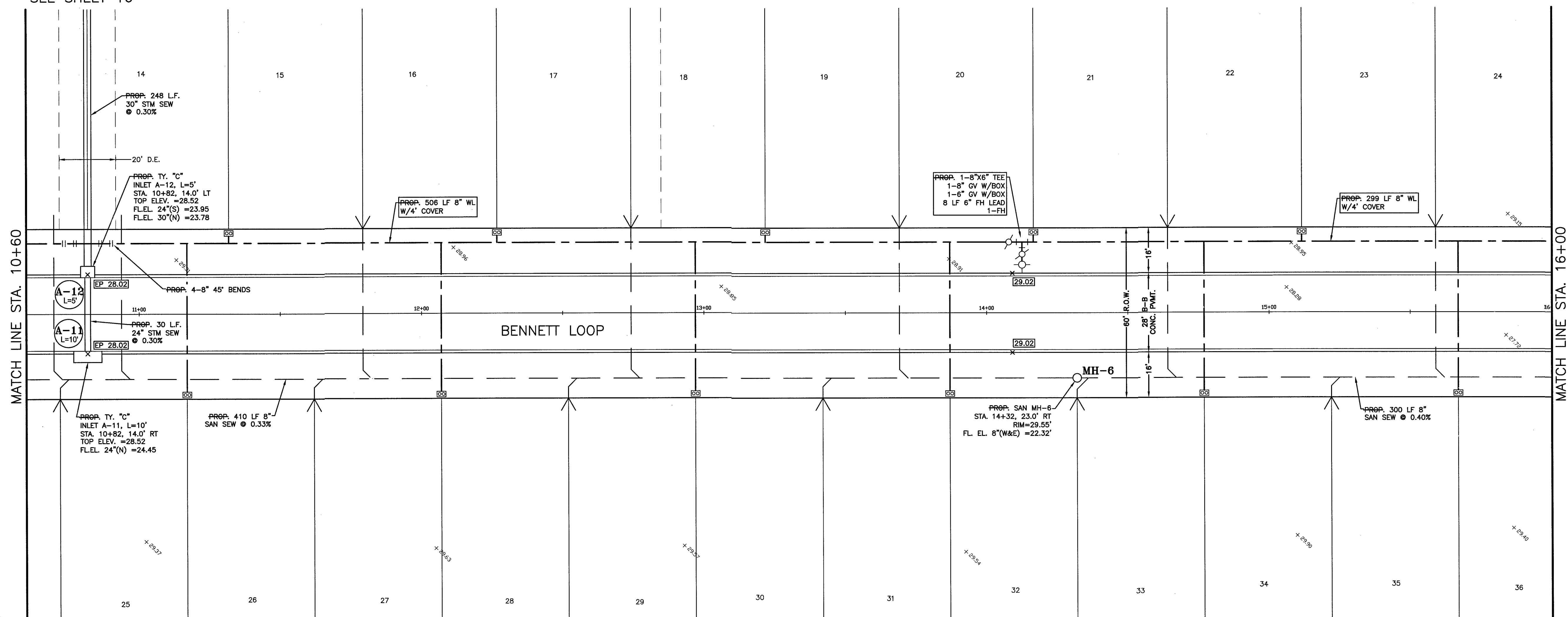
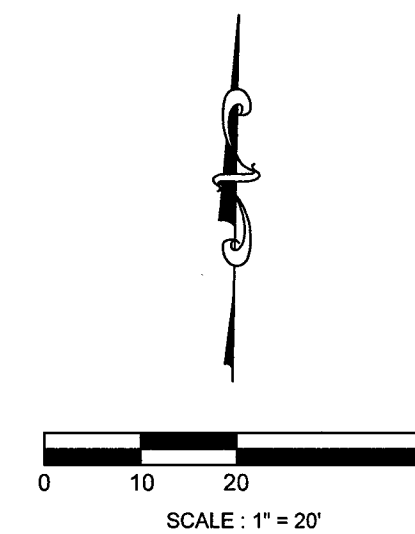
HORIZONTAL: _____ 1" = 2'

VERTICAL: _____ 1" = 20'









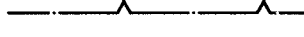



RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
BENNETT LOOP
STA. 5+00 TO 10+60

PROJECT NO. 14395



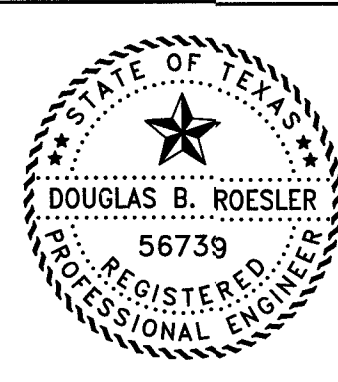
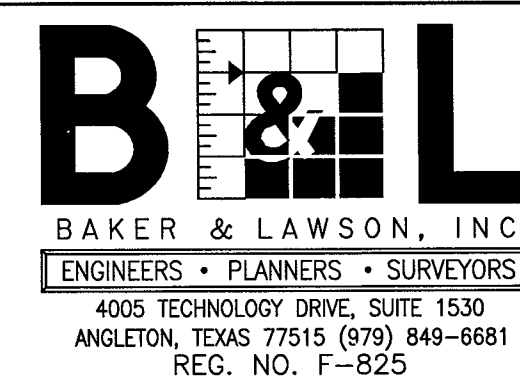
- ## SYMBOLS LEGEND

- | | |
|---|--|
|  | WATER METER |
|  | FIRE HYDRANT |
|  | WATER VALVE |
|  | TAPPING SLEEVE AND VALVE |
|  | REDUCER |
|  | STORM SEWER MANHOLE (SMH-1) |
|  | SANITARY SEWER MANHOLE (MH-1) |
|  | TOP BANK |
|  | STORM SEWER LINE
(REINFORCED CONCRETE PIPE
ASTM C76) |
|  | SANITARY SEWER LINE
(D3034, SDR 26, 160 PR) |
|  | WATERLINE (AWWA C900,
CLASS 150, DR18) |
|  | TOP OF PAVEMENT AT EDGE
OF ROADWAY |

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR
DRAWN BT
CHECKED _____
DATE _____



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[Signature]

Date: 04-18-27

OWNER:

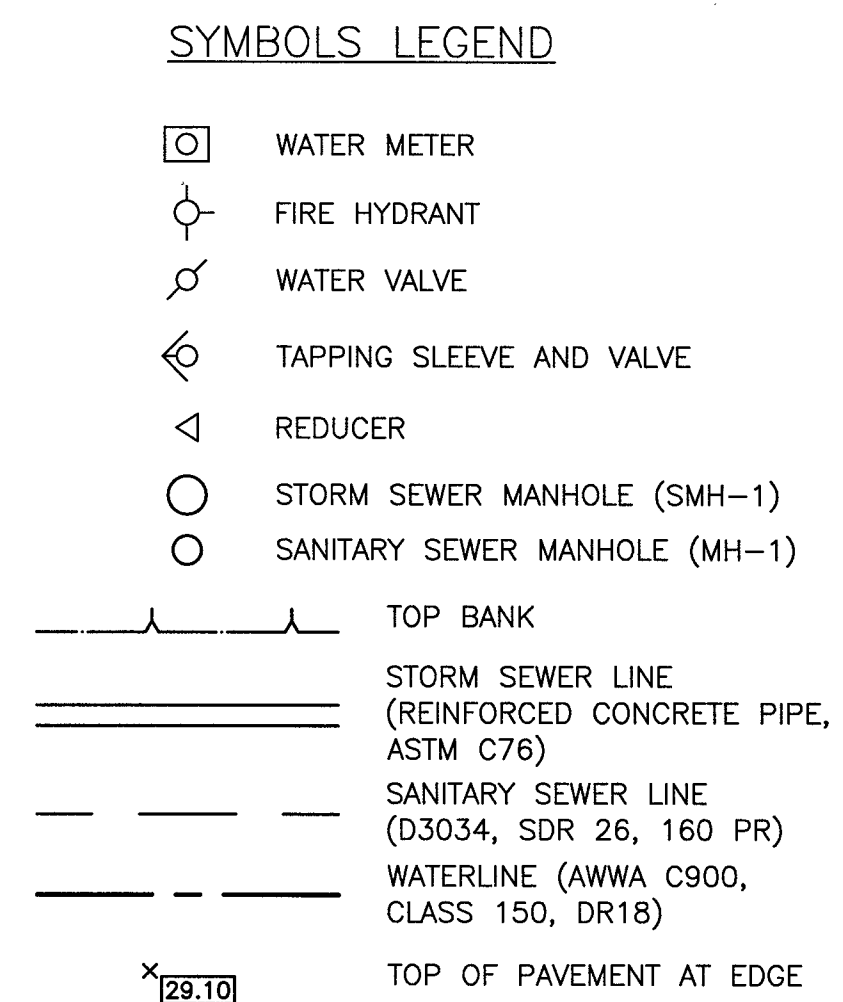
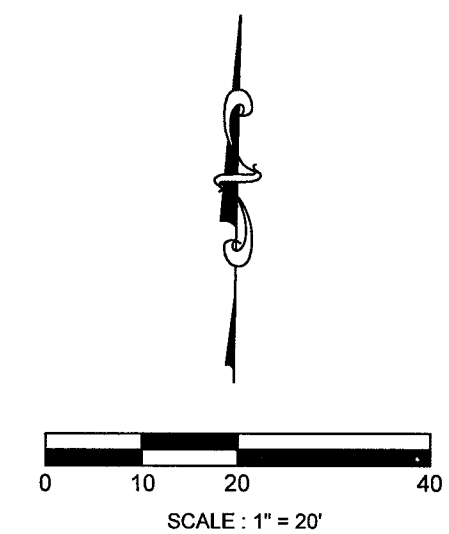
**RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057**

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
BENNETT LOOP
STA. 10+60 TO 16+00

PROJECT NO. 14395



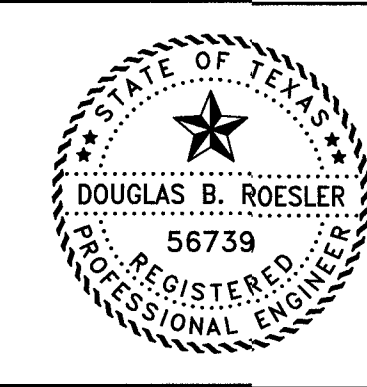
PROJECT NO. 14395

DESIGNED DR

DRAWN BT

CHECKED _____

DATE _____



PLAN: _____ 1" = 20'

PROFILE: _____

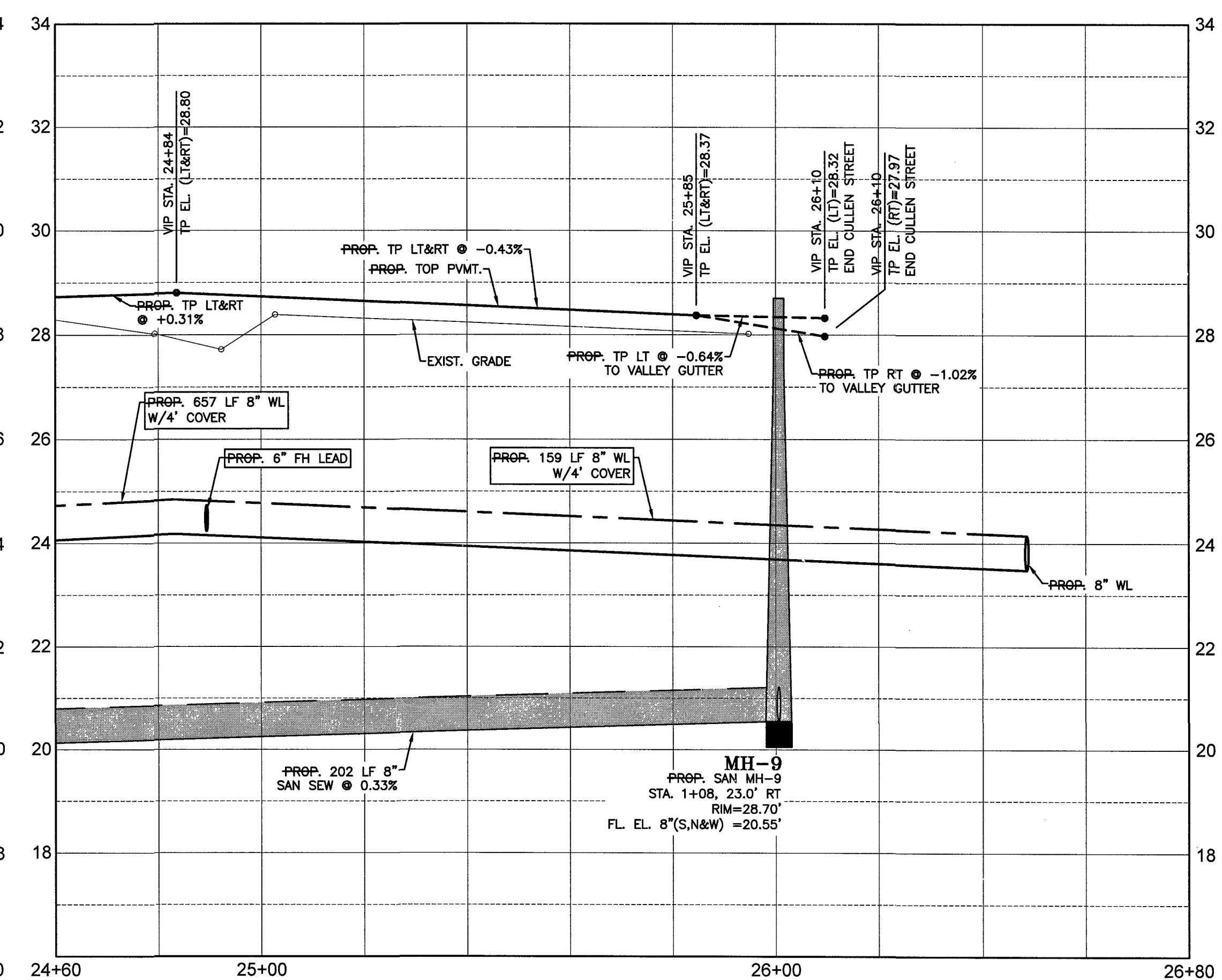
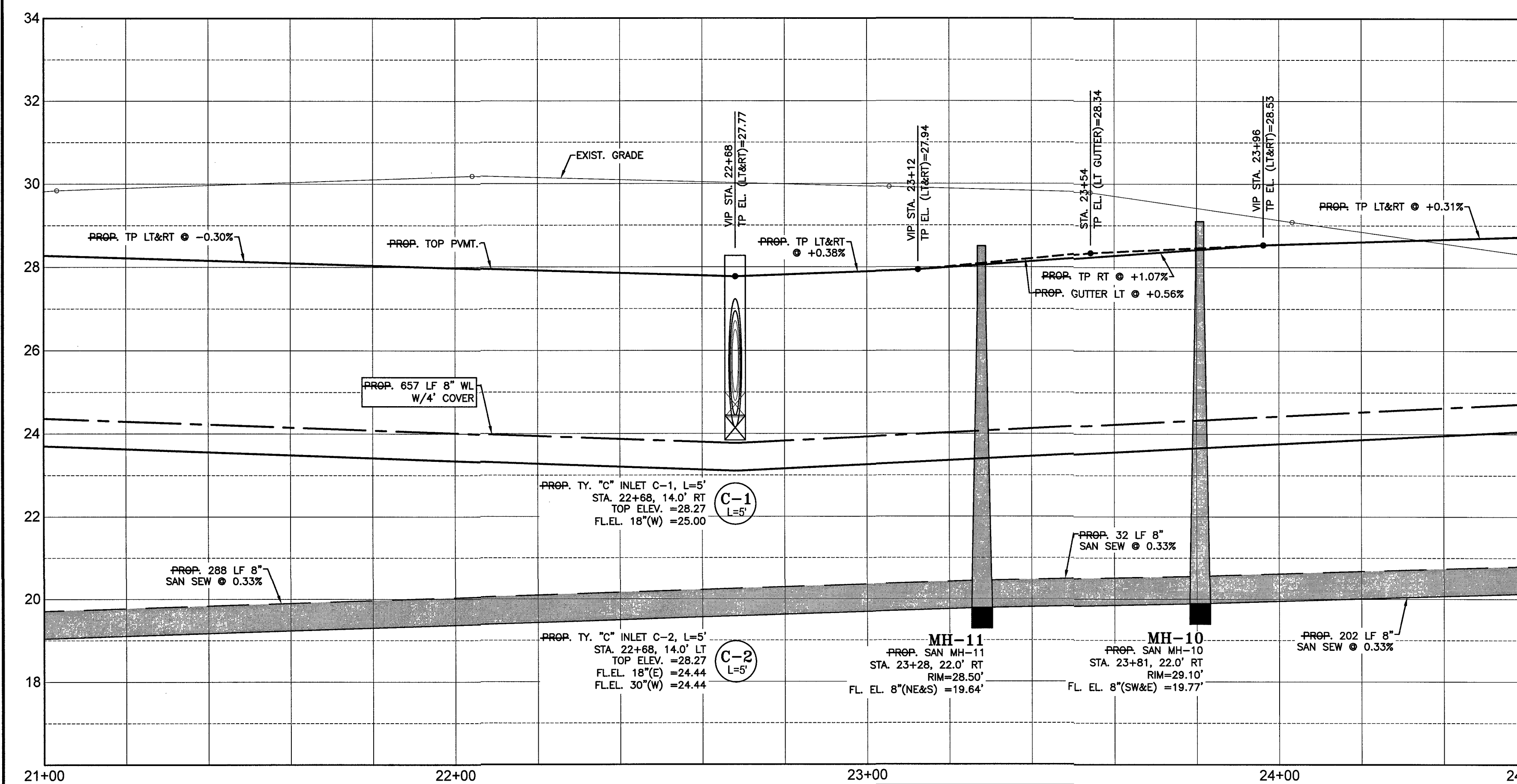
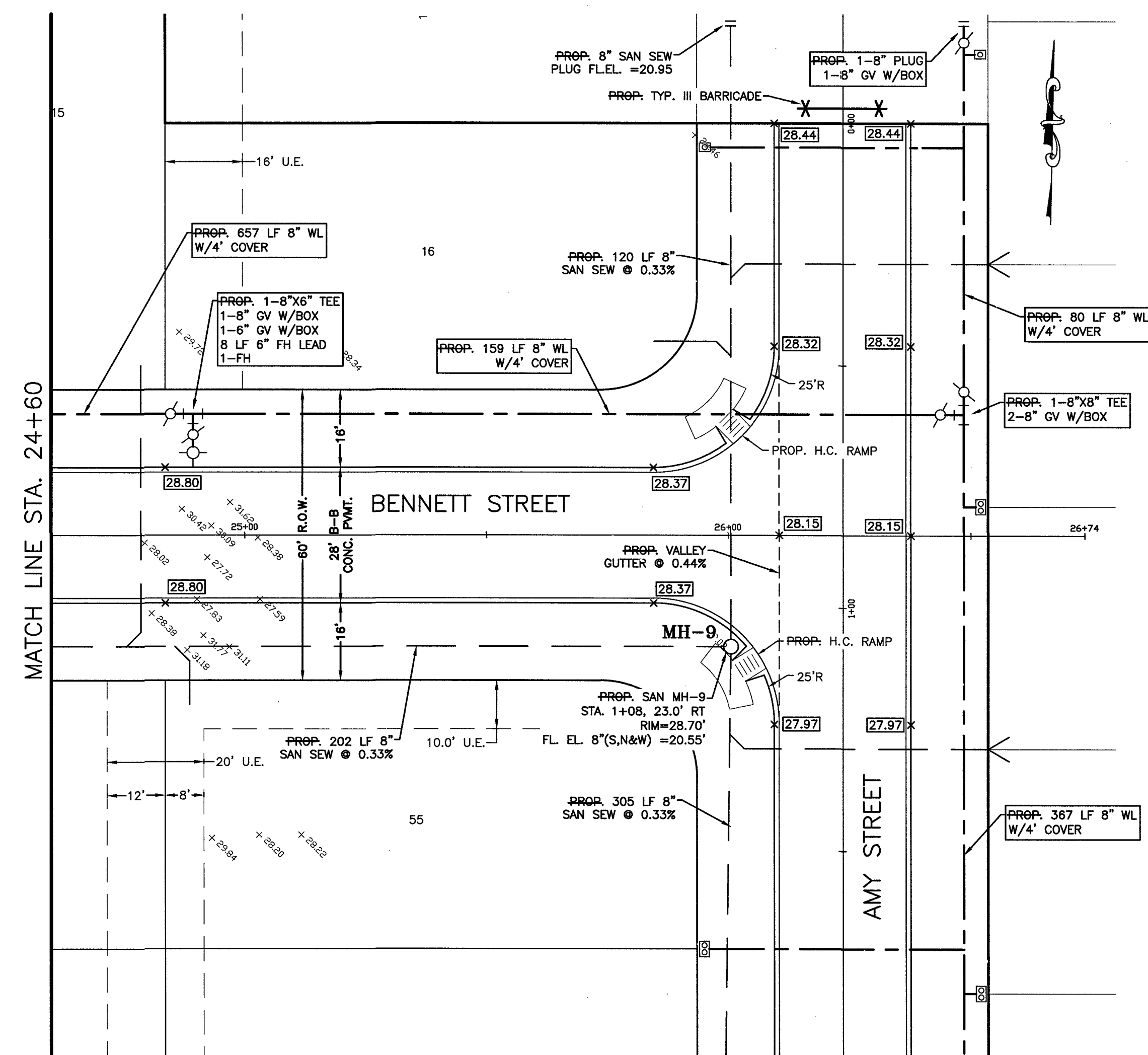
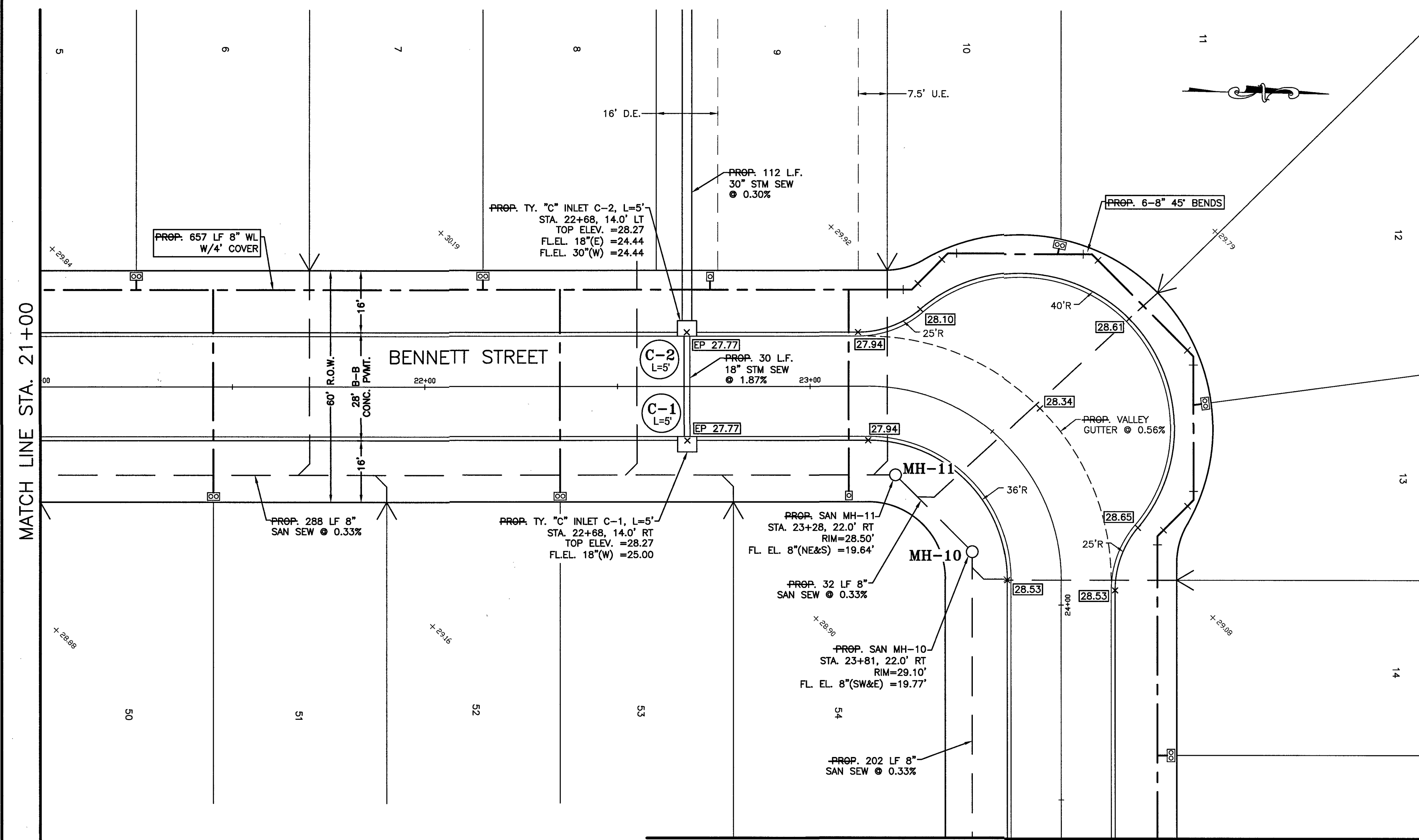
HORIZONTAL: _____ 1" = 2'

VERTICAL: _____ 1" = 20'













RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
BENNETT STREET
STA. 16+00 TO 21+00

SEE SHEET 17



SYMBOLS LEGEND

- | | |
|---|---|
|  | WATER METER |
|  | FIRE HYDRANT |
|  | WATER VALVE |
|  | TAPPING SLEEVE AND VALVE |
|  | REDUCER |
|  | STORM SEWER MANHOLE
(SMH-1) |
|  | SANITARY SEWER MANHOLE
(MH-1) |
|  | TOP BANK |
|  | STORM SEWER LINE
(REINFORCED CONCRETE
PIPE, ASTM C76) |
|  | SANITARY SEWER LINE
(D3034, SDR 26,
160 PR) |
|  | WATERLINE (AWWA C900
CLASS 150, DR18) |
|  | TOP OF PAVEMENT
AT EDGE |

RECORD DRAWING

OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

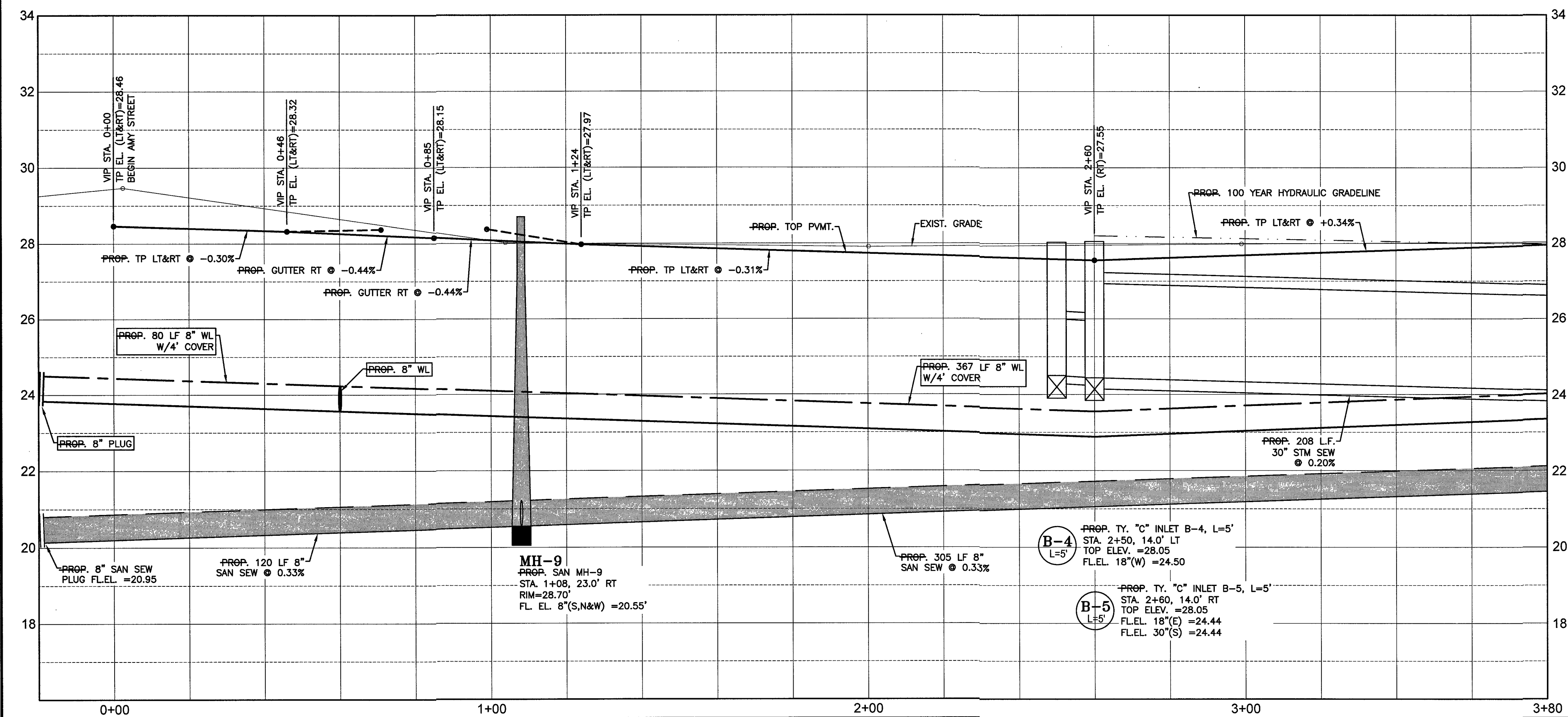
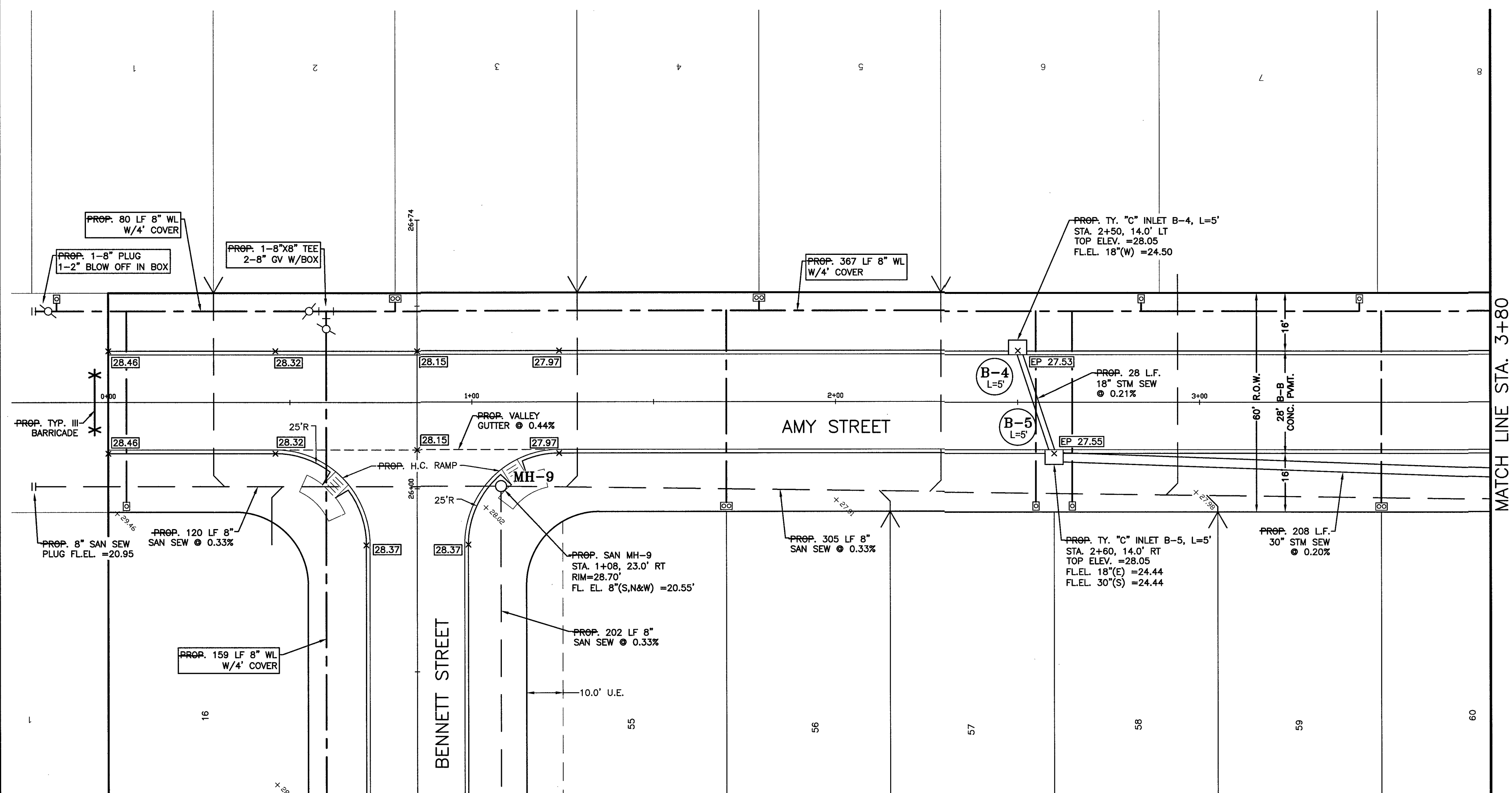
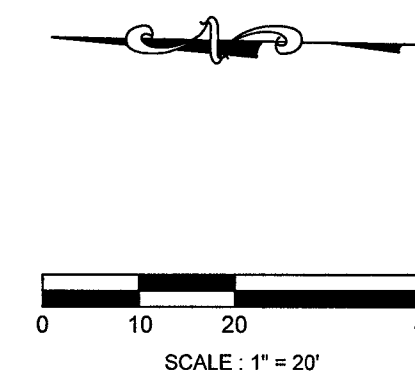
PLAN: 1" = 20'
 PROFILE:
 HORIZONTAL: 1" = 2'
 VERTICAL: 1" = 20'

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
BENNETT STREET
STA. 21+00 TO 26+80

PROJECT NO. 14395

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

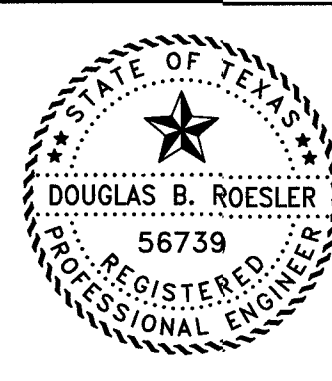
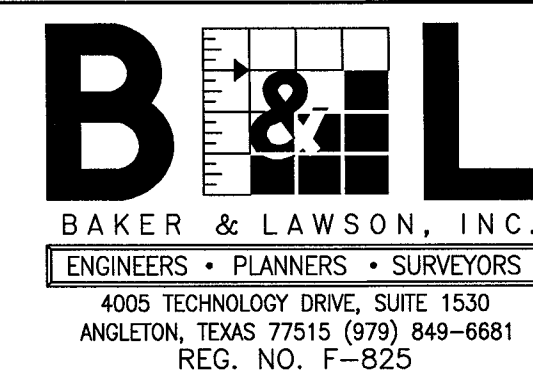


SYMBOLS LEGEND

- WATER METER
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1)
- TOP BANK
- STORM SEWER LINE
(REINFORCED CONCRETE PIPE,
ASTM C76)
- SANITARY SEWER LINE
(D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900,
CLASS 150, DR18)
- TOP OF PAVEMENT AT EDGE

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVE
REVISIONS			



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Date: 04-18-77

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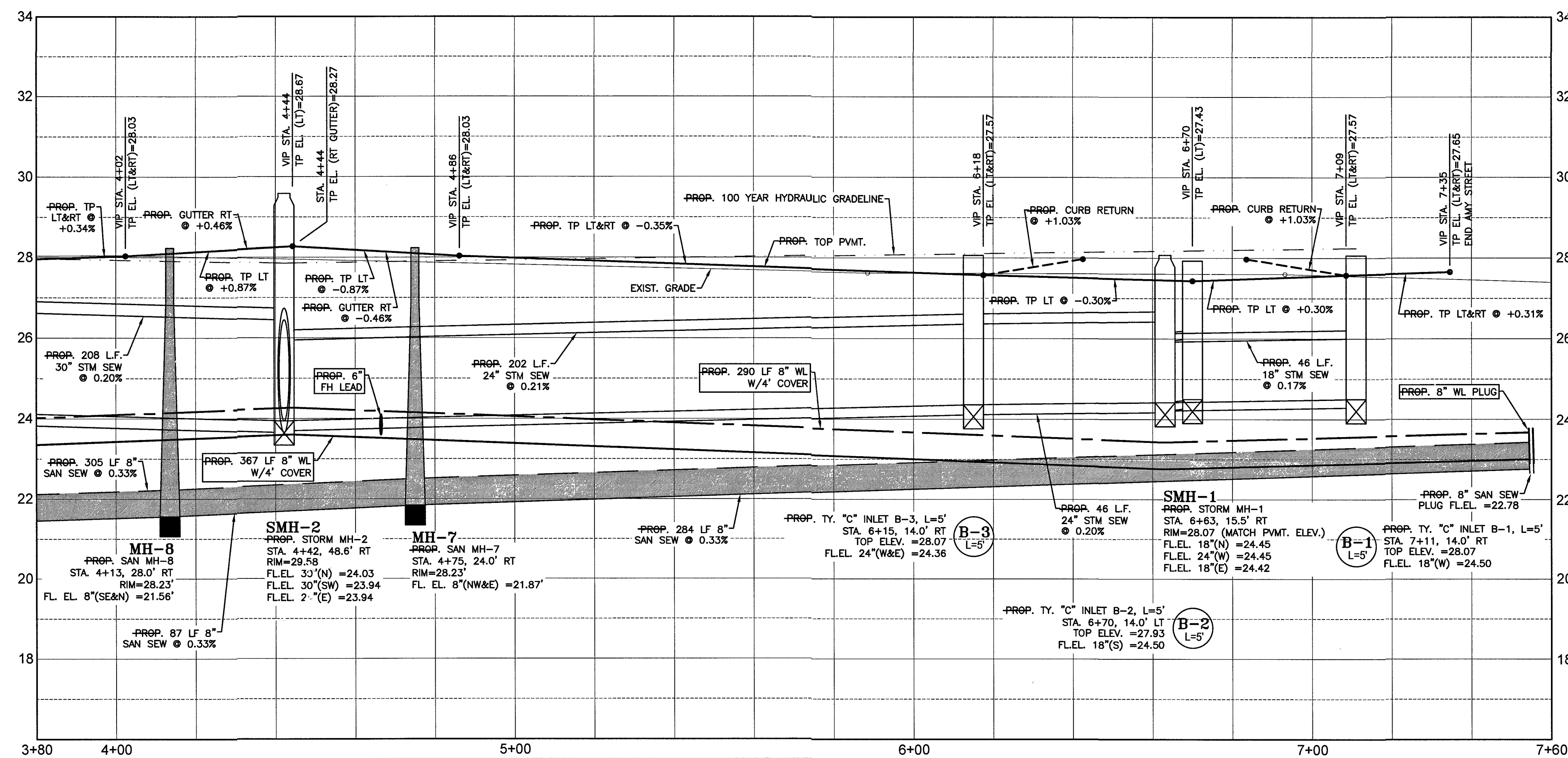
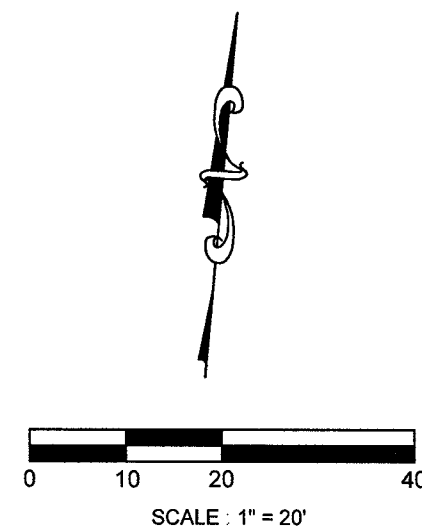
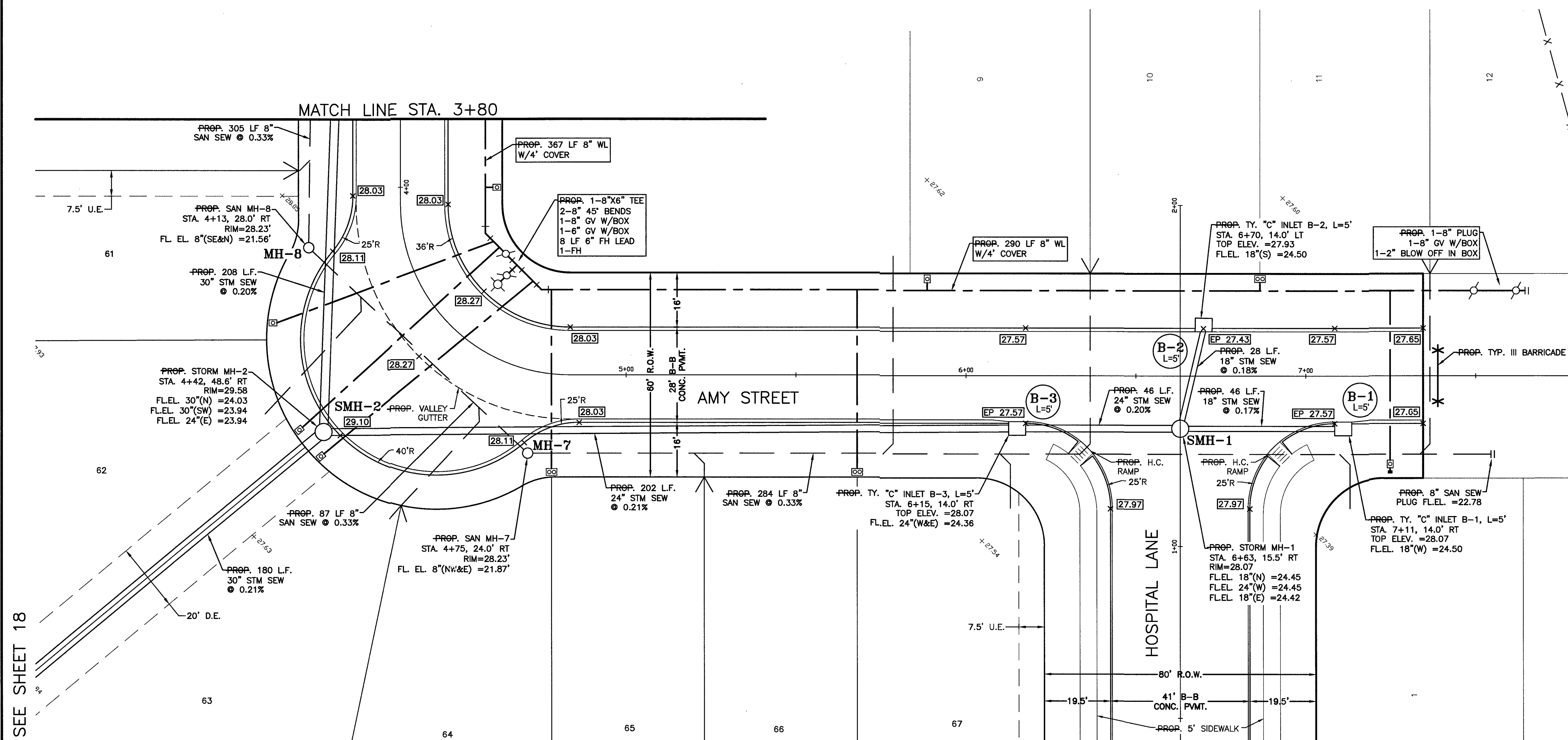
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
AMY STREET
STA. 0+00 TO 3+80

PROJECT NO. 14395



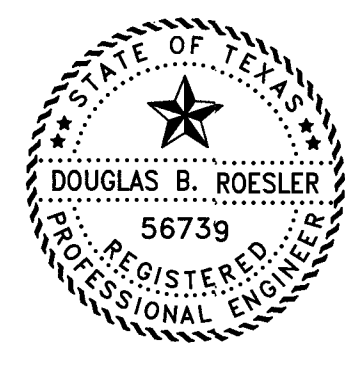
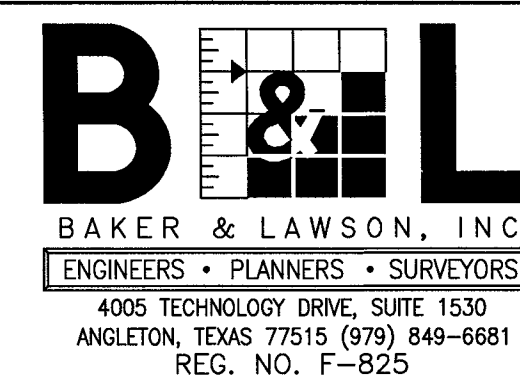
SYMBOLS LEGEND

- WATER METER
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1)
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)
- TOP OF PAVEMENT AT EDGE

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED DR
 DRAWN BT
 CHECKED
 DATE



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 Date: 04-18-22

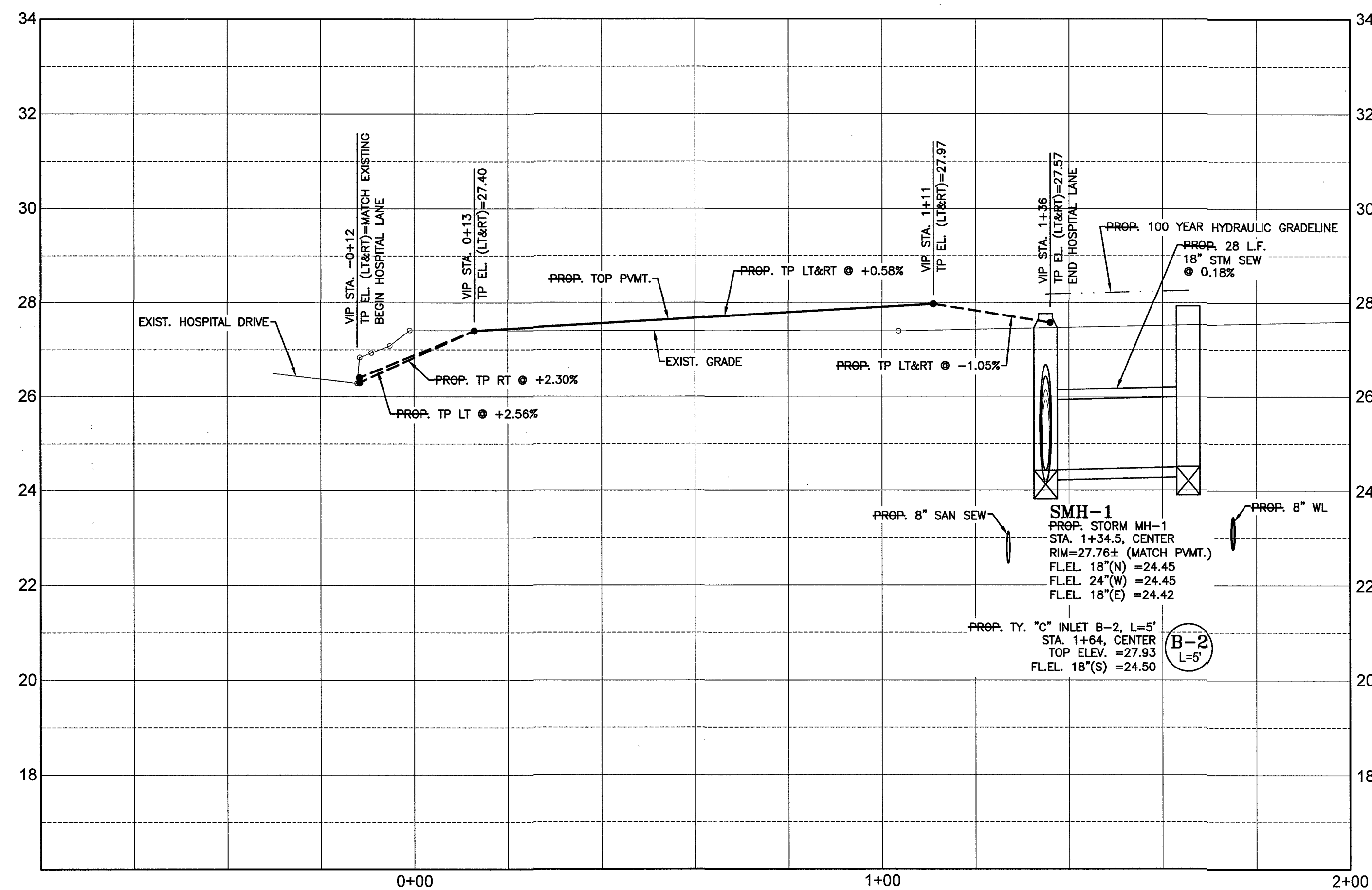
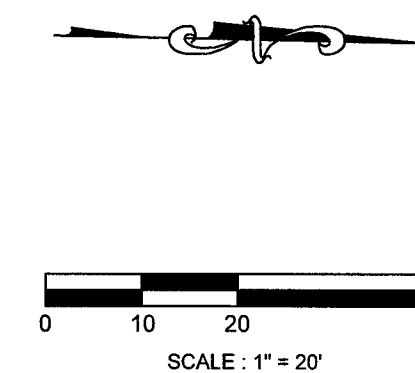
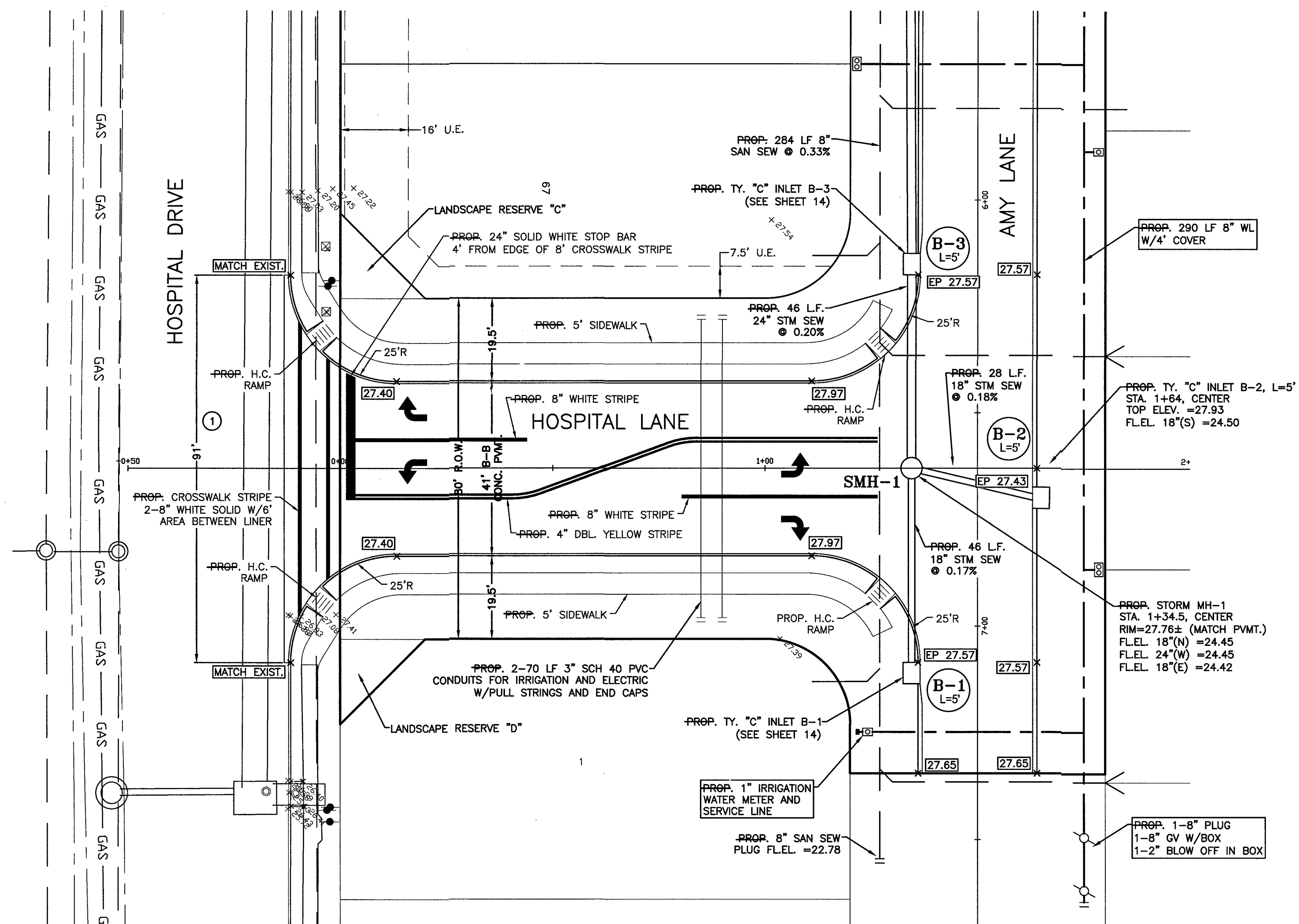
OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
AMY STREET
STA. 3+80 TO 7+35

PROJECT NO. 14395



- ① PROP. SAWCUT PAVEMENT FULL DEPTH AND REMOVE 18" WIDE 91' LONG CONCRETE PAVEMENT, CURB AND SIDEWALK FOR HOSPITAL LANE CONNECTION. CONNECT USING UNDERCUT DETAIL WITH HEADER (SEE SHEET 38) (REMOVAL IS INCIDENTAL TO CLEARING R.O.W.)

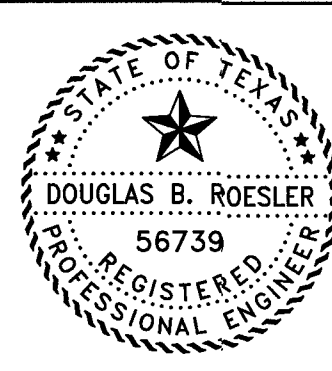
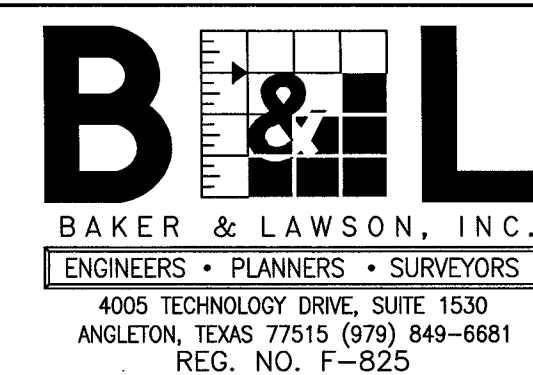
SYMBOLS LEGEND

	WATER METER
	FIRE HYDRANT
	WATER VALVE
	TAPPING SLEEVE AND VALVE
	REDUCER
	STORM SEWER MANHOLE (SMH-1)
	SANITARY SEWER MANHOLE (MH-1)
	TOP BANK
	STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
	SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
	WATERLINE (AWWA C900, CLASS 150, DR18)
	TOP OF PAVEMENT AT EDGE

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	DR
DRAWN	BT
CHECKED	
DATE	



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Date: 04-18-22

OWNER:

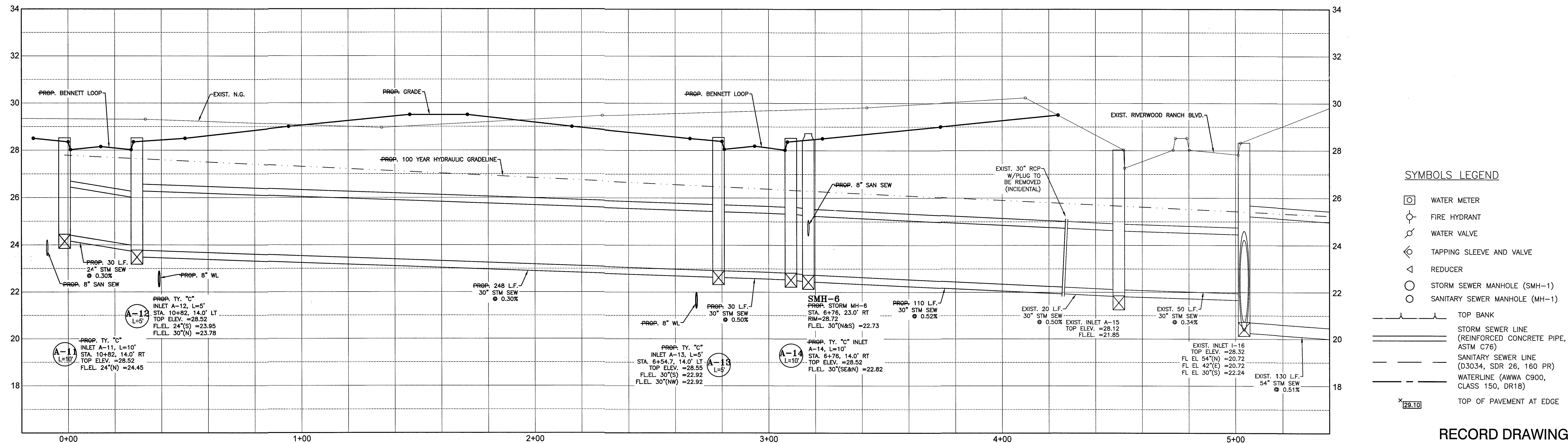
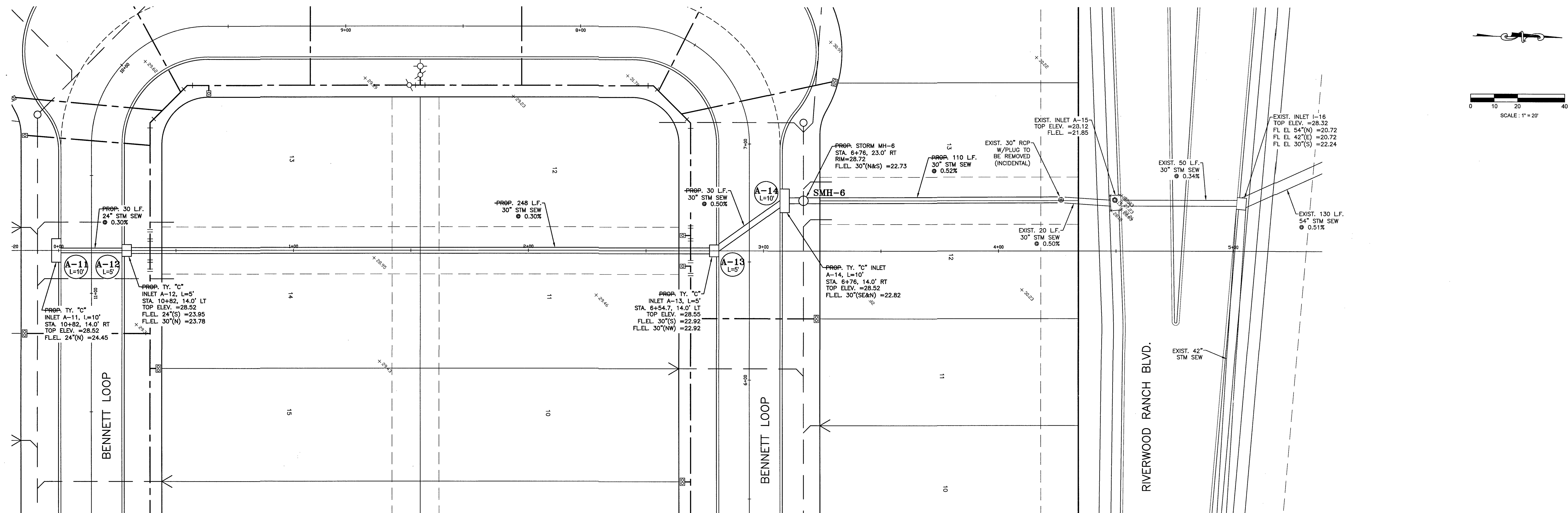
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
HOSPITAL LANE
STA. 0+00 TO 2+00

PROJECT NO. 14395



SYMBOLS LEGEND

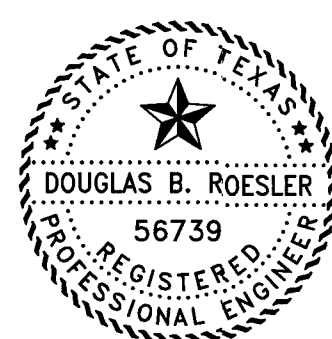
- WATER METER
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1)
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)
- TOP OF PAVEMENT AT EDGE

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED DR
 DRAWN BT
 CHECKED
 DATE

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



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 Date: 04-18-22

OWNER:

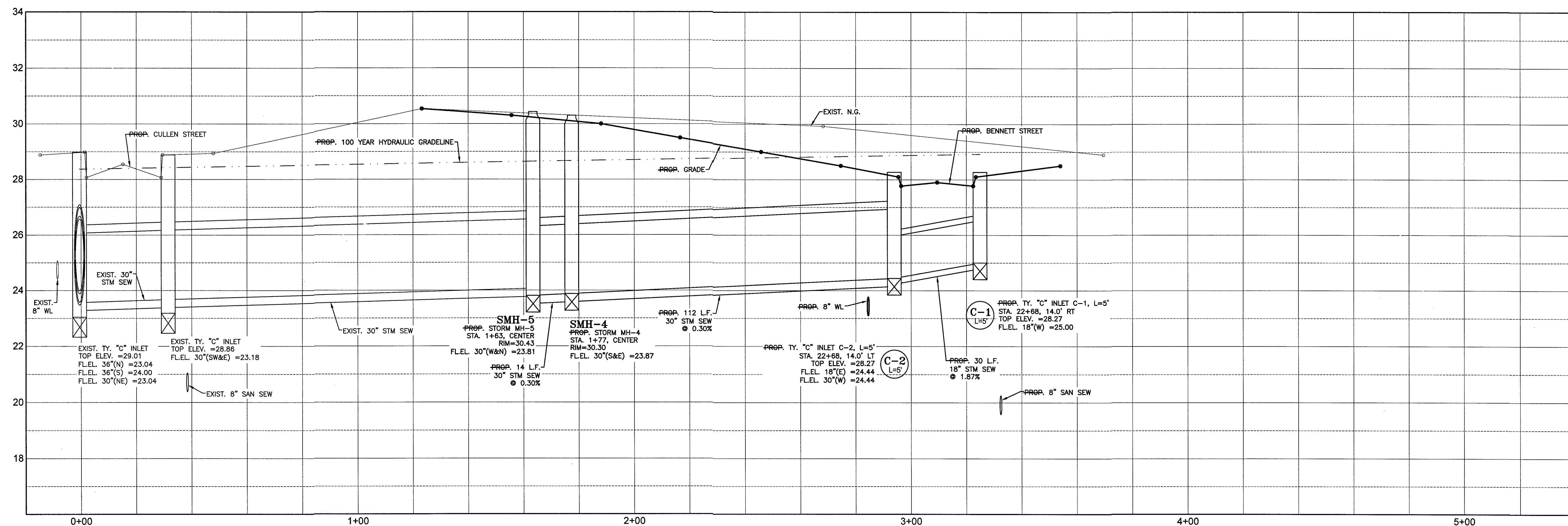
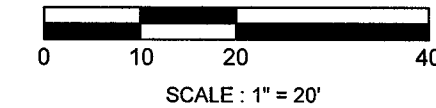
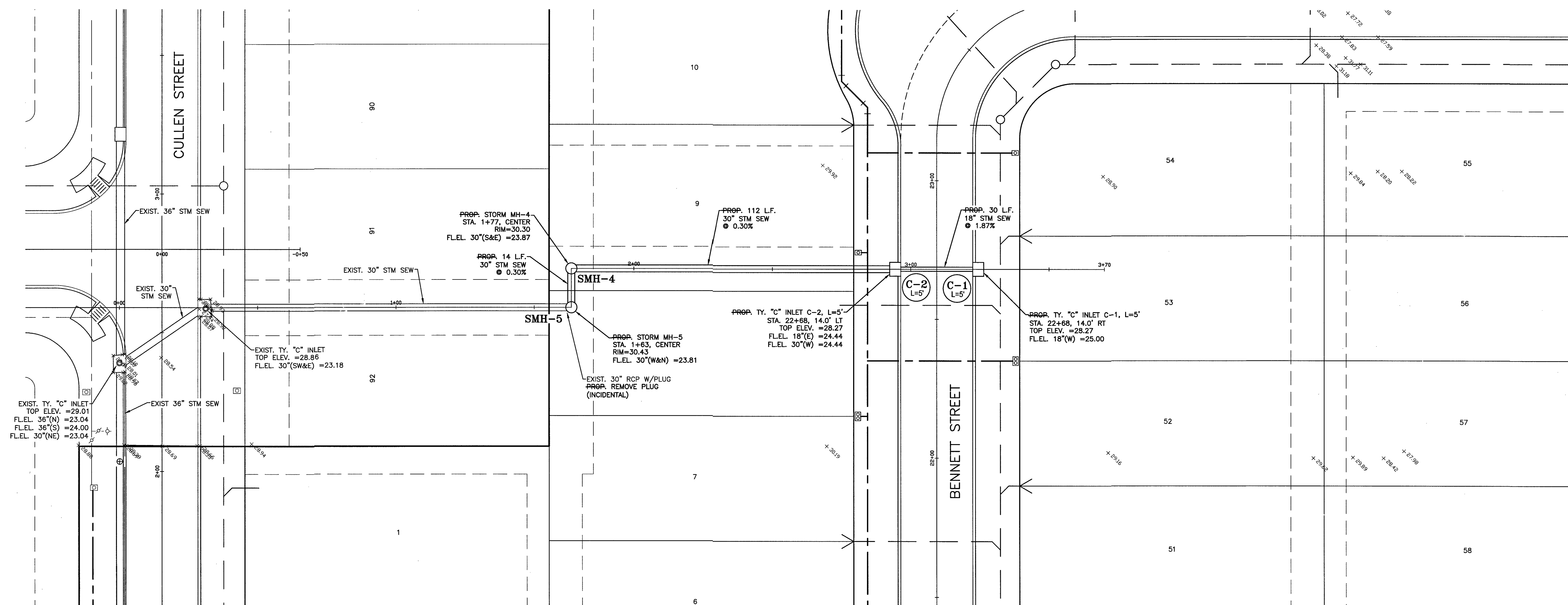
RIVERWAY PROPERTIES
 6115 SKYLINE DR. STE A.
 HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
 SECTION 2
 A 78 AC, 109-LOT SUBDIVISION
 ANGLETON, TEXAS 77515

PLAN & PROFILE
 OUTFALL 1
 STA. 0+00 TO 5+00

PROJECT NO. 14395



SYMBOLS LEGEND

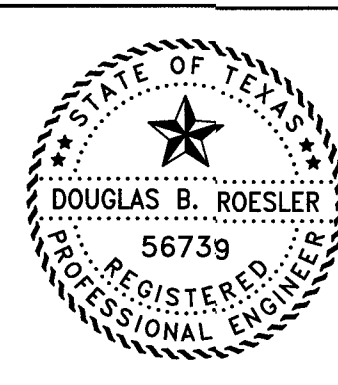
- WATER METER
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1)
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)
- TOP OF PAVEMENT AT EDGE

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	DR
DRAWN	BT
CHECKED	
DATE	

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



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Date: 04-18-22

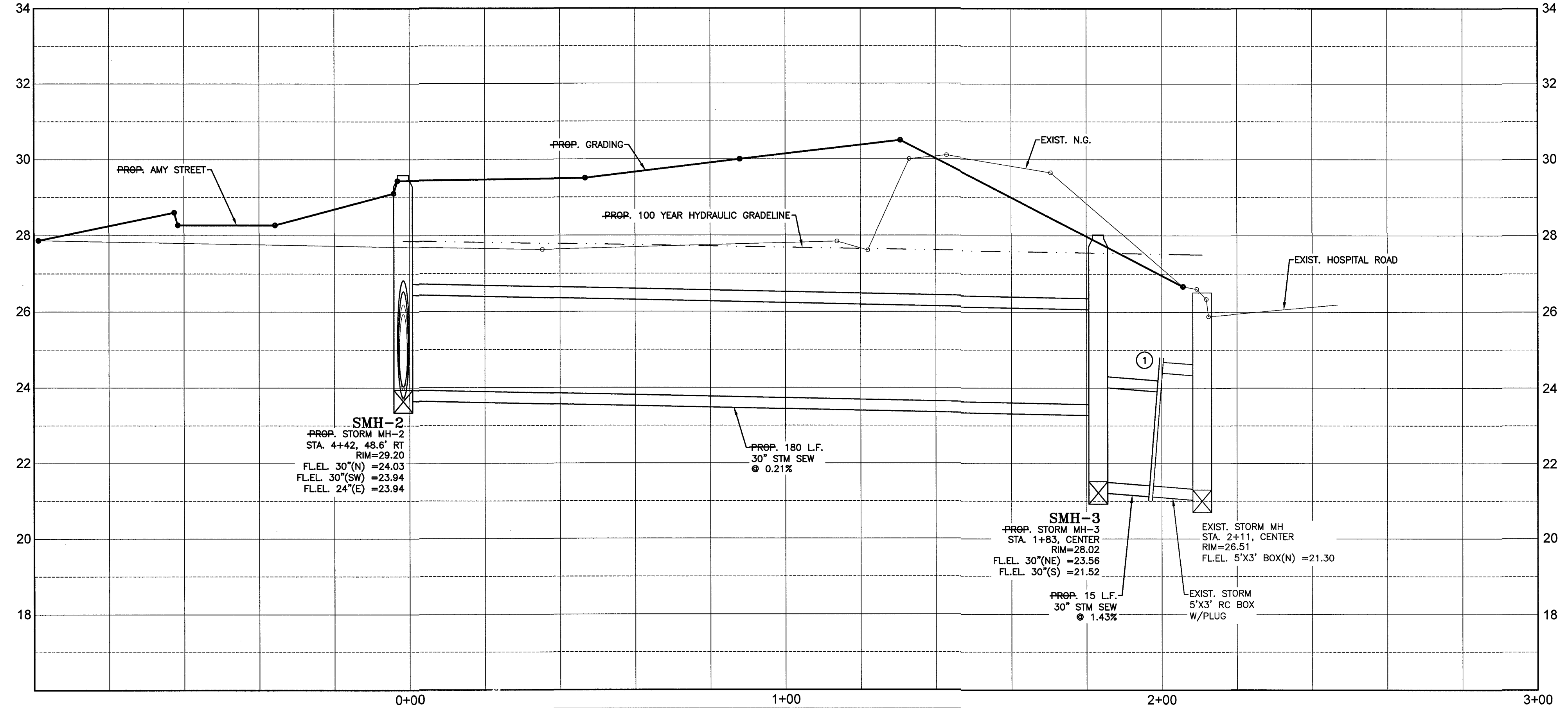
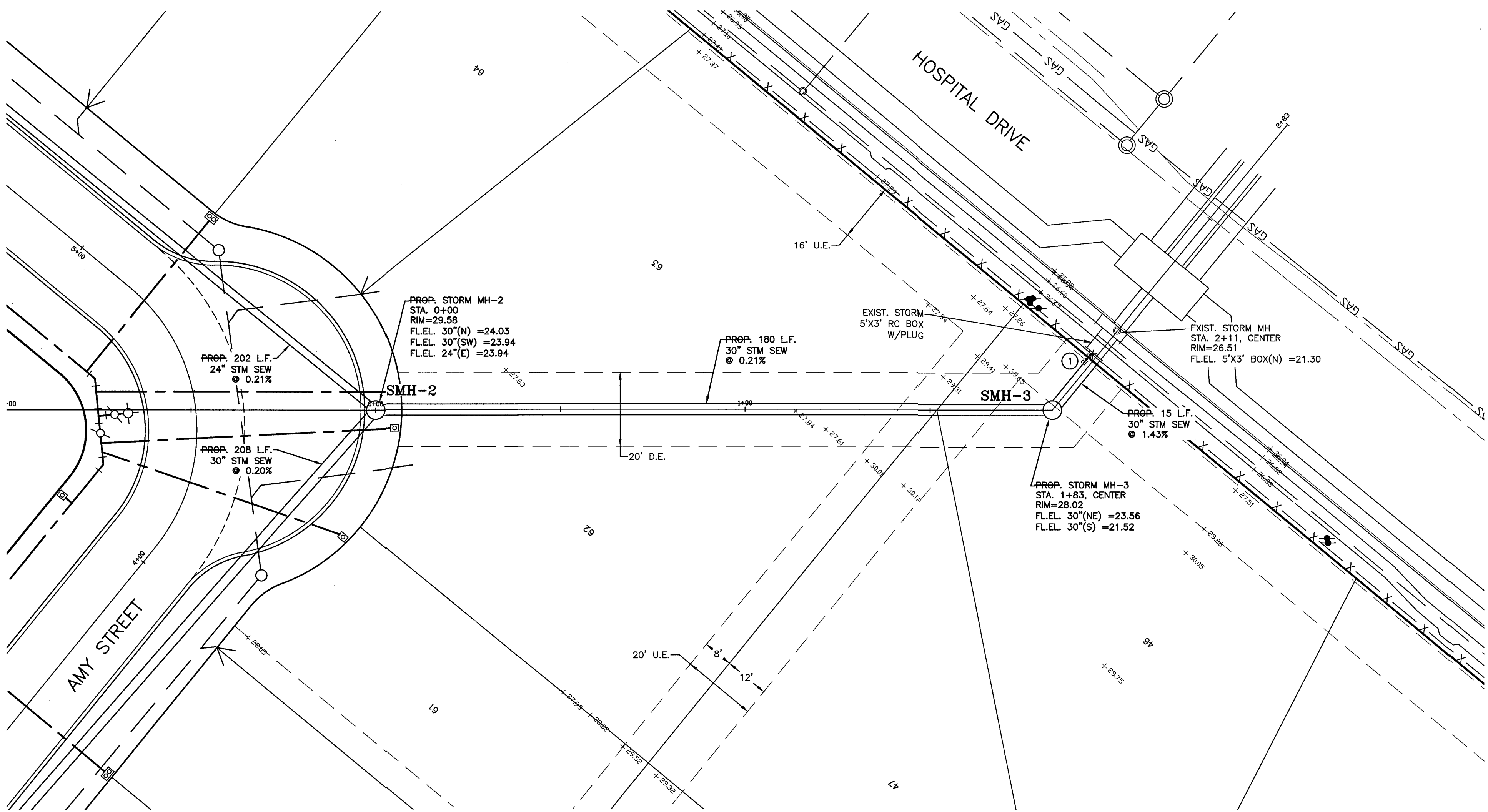
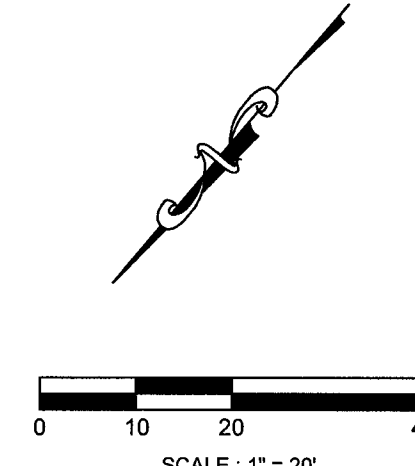
OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
OUTFALL 2
STA. 0+00 TO 5+00

PROJECT NO. 14395



① EXIST. 5'X3' STUB PLUGGED W/2-COURSE BRICK
REMOVE BRICK PLUG TO INSERT 30" RCP.
RE-BRICK W/2-COURSE WATER TIGHT. (INCIDENTAL)

SYMBOLS LEGEND

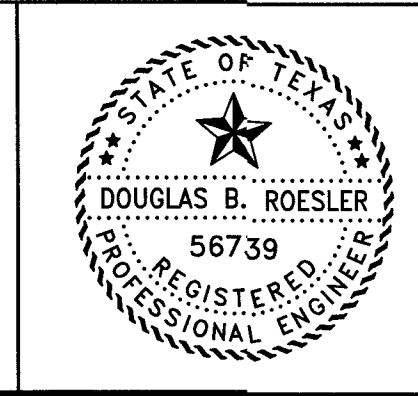
- WATER METER
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE (SMH-1)
- SANITARY SEWER MANHOLE (MH-1)
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)
- TOP OF PAVEMENT AT EDGE

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED DR
DRAWN BT
CHECKED
DATE

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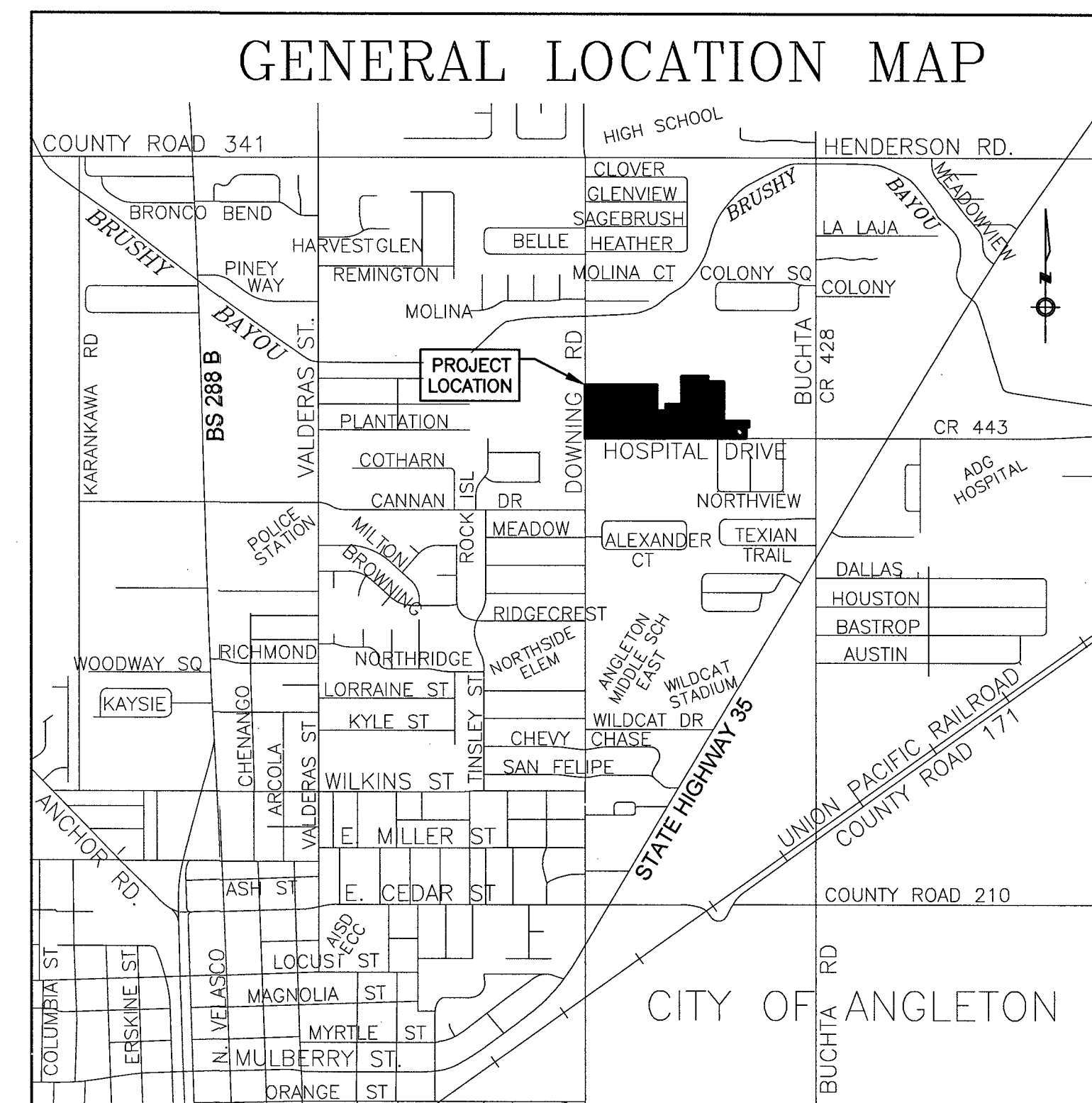
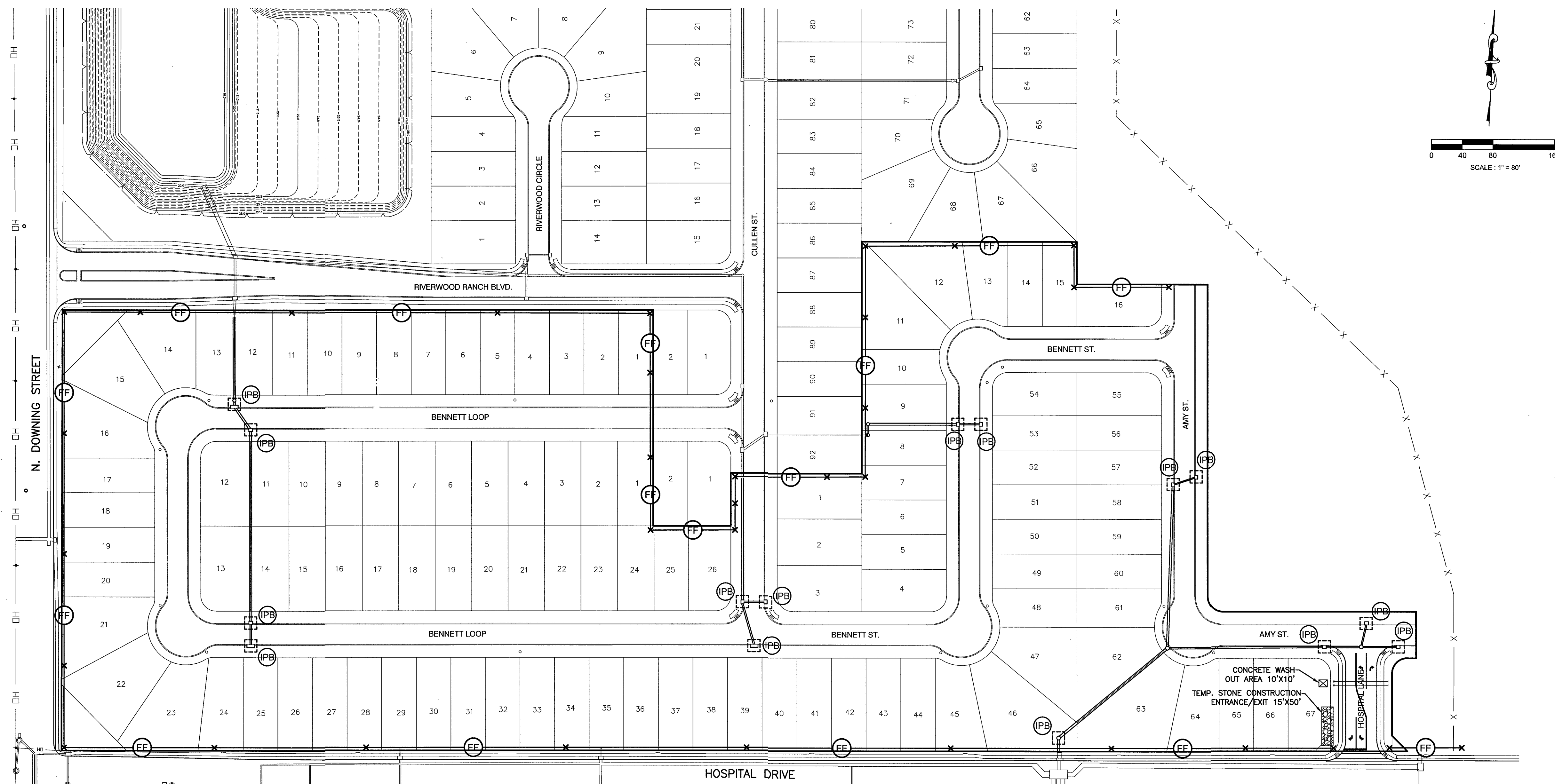
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RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PLAN & PROFILE
OUTFALL 3
STA. 0+00 TO 3+00
PROJECT NO. 14395



PROJECT/SITE INFORMATION

PROJECT NAME: RIVERWOOD RANCH SUBDIVISION, SECTION 2

PROJECT ADDRESS/LOCATION: NE CORNER OF DOWNING ROAD AND HOSPITAL DRIVE INTERSECTION

CITY: ANGLETON STATE: TX. ZIP CODE: 77515

LATITUDE: 95°24'59.4" LONGITUDE: 29°11'08.5" COUNTY: BRAZORIA

NAME OF RECEIVING WATERS: GULF OF MEXICO

11/01/2021 5/01/2022
MONTH/DAY/YEAR MONTH/DAY/YEAR
ESTIMATED CONSTRUCTION START DATE ESTIMATED COMPLETION DATE

ESTIMATE OF AREA TO BE DISTURBED: 20.0 ACRES

ESTIMATE OF LIKELIHOOD OF DISCHARGE:

☐ UNLIKELY ☐ ONCE PER WEEK ☐ CONTINUAL
☒ ONCE PER MONTH ☐ ONCE PER DAY

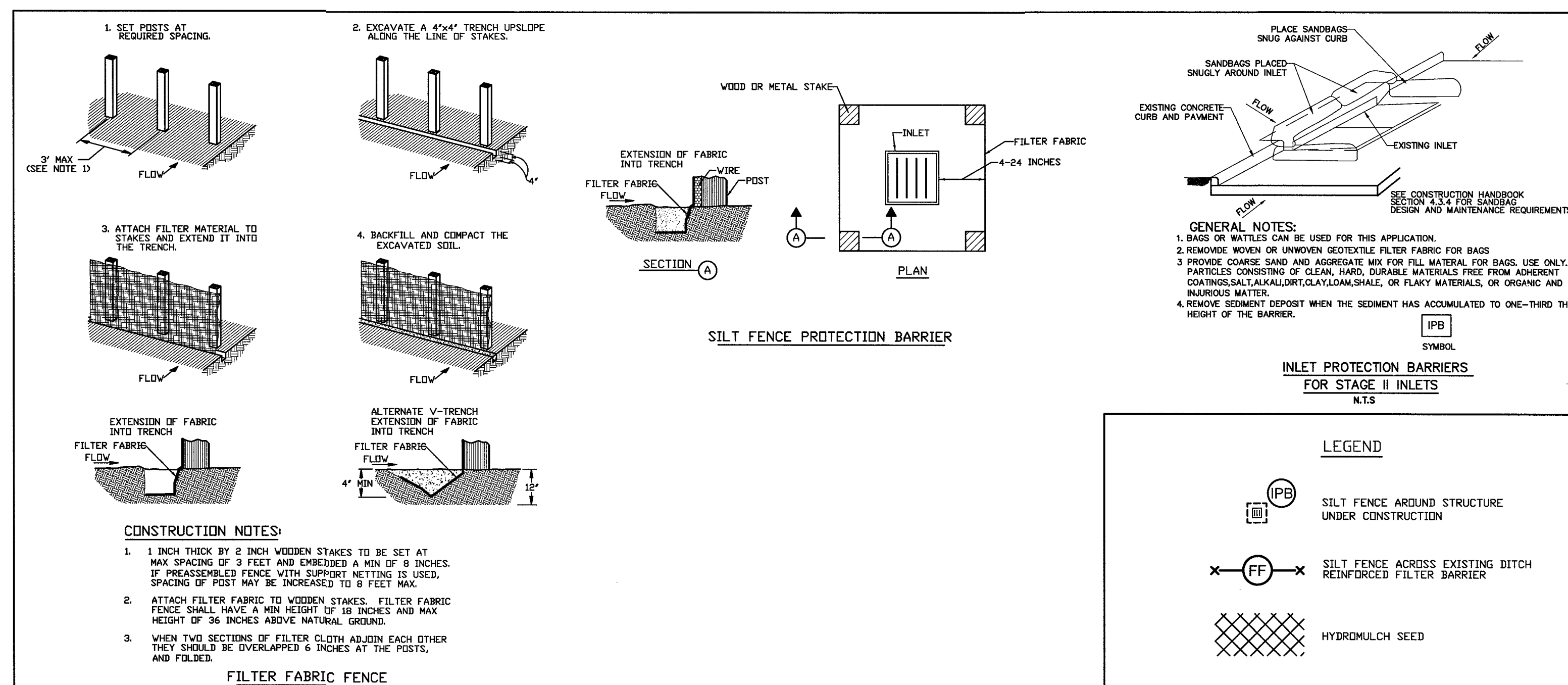
ARE THERE ANY LISTED ENDANGERED OR THREATENED SPECIES, OR DESIGNATED CRITICAL HABITAT IN THE PROJECT AREA?

☐ YES ☒ NO

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

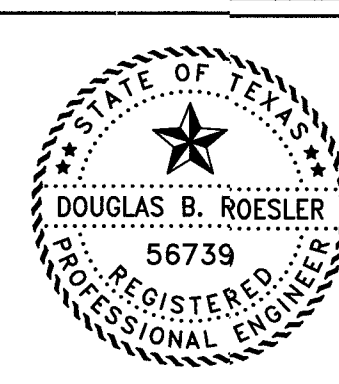
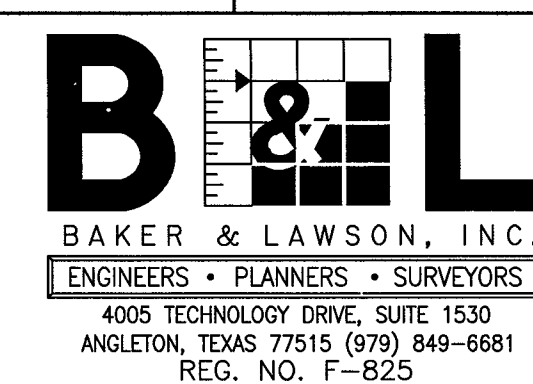
(a) ☒ (b) ☐ (c) ☐ (d) ☐

RECORD DRAWING



NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	DR
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HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

SWPPP LAYOUT

PROJECT NO. 14395

1. SITE DESCRIPTION

A. NATURE OF THE CONSTRUCTION ACTIVITY:
RIVERWOOD RANCH SUBDIVISION SECTION 2, ANGLETON, BRAZORIA COUNTY, TEXAS, BEING A 19.793 ACRE WHICH WILL BE DEVELOPED INTO A RESIDENTIAL SUBDIVISION OF 109 LOTS (45' WIDE USUALLY).CONSTRUCTION WILL INCLUDE UNDERGROUND UTILITIES, STORM SEWERS AND CONCRETE ROADWAYS WITH CURBS WITH EXCESS EXCAVATION WITH MATERIAL SPREAD FOR LOT GRADING.

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

C. TOTAL PROJECT AREA: 20 ACRES

D. TOTAL AREA TO BE DISTURBED: 20 ACRES

WEIGHTED RUNOFF COEFFICIENT (BEFORE CONSTRUCTION): 0.25 (AFTER CONSTRUCTION): 0.55

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

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

G. NAME OF RECEIVING WATERS:
RUNOFF WILL BE COLLECTED IN THE STORM SEWER SYSTEM AND ROUTED TO THE EXISTING DETENTION POND IN SECTION 1, AND TO A 5'X3' BOX CULVERT STUBBED OUT FROM HOSPITAL DR. TO SERVE THIS TRACT. THE POND AND THE 5'X3' BOX CULVERT OUTFALL INTO BRUSHY BAYOU WHICH FLOWS TO BASTROP BAYOU AND THEN TO THE GULF OF MEXICO.

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

NONE

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

I. LISTED ENDANGERED OR THREATENED SPECIES OR CRITICAL HABITAT FOUND IN PROXIMITY TO THE CONSTRUCTION ACTIVITY:

NONE

J. PROPERTY LISTED OR ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES:

NONE

2. CONTROLS

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

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

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

2. INSTALL WATER LINES, SANITARY SEWER LINES AND MANHOLES AND STORM SEWER PIPES, INLETS AND MANHOLES. INSTALL INLET PROTECTION BARRIERS AROUND ALL INLETS.

3. ROADWAY EXCAVATION, LIME STABILIZATION AND CONCRETE PAVING WILL FOLLOW UNDERGROUND UTILITY AND STORM SEWER CONSTRUCTION.

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

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

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

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

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

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

C. OTHER CONTROLS

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

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

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

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

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

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

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

3. MAINTENANCE

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

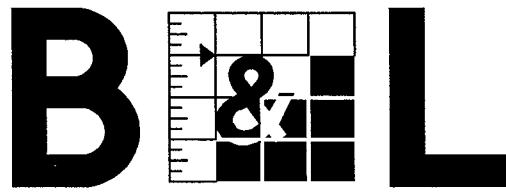
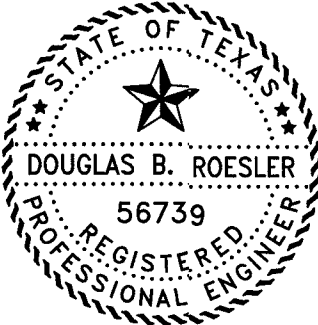
4. INSPECTION

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

5. NON-STORMWATER DISCHARGES

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

RECORD DRAWING

				DESIGNED DR	 BAKER & LAWSON, INC. ENGINEERS • PLANNERS • SURVEYORS 4025 TECHNOLOGY DRIVE, SUITE 1530 ANGLETON, TEXAS 77515 (979) 849-6681 REG. NO. F-825	 The seal appearing on this document was authorized by Douglas B. Roesler P.E. 56739 Date: 04/18/22	OWNER: RIVERWAY PROPERTIES 6115 SKYLINE DR. STE A. HOUSTON, TEXAS 77057	PLAN: _____ PROFILE: _____ HORIZONTAL: _____ VERTICAL: _____	RIVERWOOD RANCH SUBDIVISION SECTION 2 A 78 AC, 109-LOT SUBDIVISION ANGLETON, TEXAS 77515	SWPPP NARRATIVE	PROJECT NO. 14395
				DRAW'N BT							
				CHE' KED							
				DATE							
NO. DATE DESCRIPTION APPROVED				REVISIONS							

1

Hydrological and Hydraulic Impacts
Riverwood Ranch Subdivision - Sec. 1 & 2

Job # 13032

Brazoria County, Texas

A= 42.474 Acre Development :

Pre Development:

C = 0.2186
TC = 90.0 Minutes, I = 3.66
Q = 100 Year Storm = 34.82 cfs
Q-Allowable is 0.80 cfs / ac. = 33.98 cfs

Post Development

C = 0.60
T/C = 27.6 Minutes, I = 6.732
Q = 100 Year Storm = 214.44 cfs

Required Detention:

20.834 acre - feet (907,529 c.f.)

Douglas B. Roesler, P.E. Sep. 18, 2021

EXISTING CONDITIONS

Bra. Co. Master Drg. Study allows only 0.80 cfs/acre in this area. These are Bastrop Bayou drainage areas BB 35 and BB 36.

TC = 15 Minutes gather time plus diagonal length (1,800') overland at 0.40 fps = 90.0 Minutes

PROPOSED CONDITIONS

TC = 15 Minutes gather time + 150' overland at 0.50 fps +1,360 l.f. storm sewer at 3 fps = 27.6 Minutes
C = 0.60 (Sugarland allows C=0.55)

2

Drainage Analysis

Job # 13032 - Riverwood Ranch Subdivision - Sections 1 and 2

Rainfall intensity calculations for Brazoria County

I = intensity (in/hr)
b = coefficient
t = time of concentration
d = coefficient
e = coefficient

subscript i=1 = 2 year storm
i=2 = 5 year storm
i=3 = 10 year storm
i=4 = 25 year storm
i=5 = 50 year storm
i=6 = 100 year storm

i := 1..6

b _i :=	e _i :=	d _i :=
71.0	0.774	8.4
70.1	0.752	7.7
96.6	0.770	7.7
89.2	0.736	17.2
86.5	0.709	10.4
120.2	0.741	21.3

T₀ := 90.0 ENTER PREDEVELOPMENT TIME OF CONCENTRATION

I₁ := $\frac{b_1}{(d_1 + T_0)^{e_1}}$ I₀ = 3.66 Predevelopment Intensity of interest

C_{pre} := .2186 ENTER PREDEVELOPMENT C VALUE

A := 42.474 ENTER AREA

3

Predevelopment hydrograph

T₀ := 27.6 ENTER POST DEVELOPMENT TIME OF CONCENTRATION

I₁ := $\frac{b_1}{(d_1 + T_0)^{e_1}}$ I₀ = 6.732 Post development I of interest

C_{pre} := 0.60 ENTER POST DEVELOPMENT C FACTOR
C_{de} := 1.25 REVISE C AND AREA IF NECESSARY

Q_{pre} := C_{pre} · A · C_{de}

Q = 214.443

V_{pre} := (C) · A · 43560 · 1.08
V = 1.199 × 10⁶

T := $\frac{V}{1.39 \cdot Q}$ T = 4.022 × 10³
t := 0, 1000..25000

4

C_{de} := 1.00

Q := C · C_{de} · I₀ · A Must insert correct subscript for I to obtain the relevant Q
Q = 33.98

V_{pre} := (C) · A · 43560 · 1.08 For these calculations, total volume storage is assumed to equal (C) · A with A converted to square feet multiplied by 13' (1.08)
V = 4.368 × 10⁵

DEVELOPMENT OF RUNOFF HYDROGRAPH
MALCOM'S METHOD AS DESCRIBED IN THE
BRAZORIA COUNTY DRAINAGE CRITERIA
MANUAL

T := $\frac{V}{1.39 \cdot Q}$ T = 9.248 × 10³ T = Time to peak, presented as a function of volume and peak flow and therefore indirectly related to time of concentration

t := 0, 1000..84000

f(t) := $\left(\frac{Q}{2}\right) \cdot \left(1 - \cos\left(\frac{t \cdot \pi}{T}\right)\right)$ f(t) describes rising limb of hydrograph

g(t) := 4.34 · Q · exp $\left[-1.30 \cdot \left(\frac{t}{T}\right)\right]$ g(t) describes descending limb of hydrograph

q(t) := if(t ≤ 1.25 · T, f(t), g(t))

Volume_{pre} := $\int_0^{86400} q(t) dt$

Volume_{pre} = 4.383 × 10⁵

5

f(t) := $\left(\frac{Q}{2}\right) \cdot \left(1 - \cos\left(\frac{t \cdot \pi}{T}\right)\right)$

g(t) := 4.34 · Q · exp $\left[-1.30 \cdot \left(\frac{t}{T}\right)\right]$

q(t) := if(t ≤ 1.25 · T, f(t), g(t))

Volume_{post} := $\int_0^{86400} q(t) dt$

Volume_{post} = 1.203 × 10⁶
Post development hydrograph

Combined pre and post development hydrographs

6

f(t) := ((r(t) - q(t))) · 1
v(t) := if(f(t) > 0, f(t), 0)

THE REQUIRED STORAGE COMPUTED AS THAT PART OF THE POST DEVELOPMENT HYDROGRAPH THAT FALLS ABOVE THE PREDEVELOPMENT HYDROGRAPH

ACRE- FEET

$\int_0^{86400} v(t) dt$
43560 = 20.834

14395 - RIVERWOOD RANCH IN ANGLETON, NW DETENTION POND - SECTIONS 1 AND 2
ULTIMATE - 42.484 AC COMBINED. - RESTRICTIVE OUTLET WITH MAX. FLOW RATE OF 33.99 CFS AND 1.0' HEAD

A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	H.C.F.C.D. EQUATION FOR A HDPE PIPE WITH KNOWN "L", "n", "D" AND ASSUMED "H"												
2	H"	Q"	ENTR.	n	L	D		EQ.	EQ.	EQ.	EQ.	EQ.	EQ.
3			LOSS					2.5204(1+D4)	ERR	B4/(C4(10)^2	14/G4^4	J4/G4^5.333	L4-(L4+M4)
4	1	26.2	0.5	0.011	116	2.5		3.7806	6.5433	0.1462	0.0968	0.0494	0.0000
5	1	39.1	0.5	0.011	116	3		3.7806	6.5433	0.0654	0.0467	0.0187	0.0000

USE 30" RESTRICTIVE OUTLET

ORIFICE EQUATION	
Q = Cd * A * (2 * G * H)^0.5	
Where:	
Cd =	0.8
G =	32.2
H =	1
Q =	33.99
A =	5.29 30" Dia. 4.91 S.F.

DESIGNED	DR
DRAWN	BT
CHECKED	
DATE	

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

B

8

L

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

STATE OF TEXAS

DOUGLAS B. ROESLER
P.E. 56739
REGISTERED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Douglas B. Roesler P.E. 56739
Date: 04-18-22

OWNER:

RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

PLAN:

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SECTION 2
A 78 AC, 109-LOT SUBDIVISION
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RECORD DRAWING

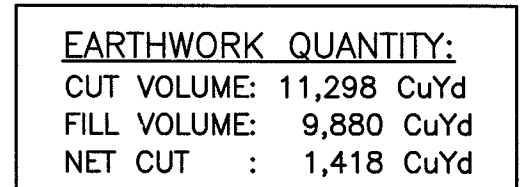
HYDROLOGICAL
CALCULATIONS

PROJECT NO. 14395

21

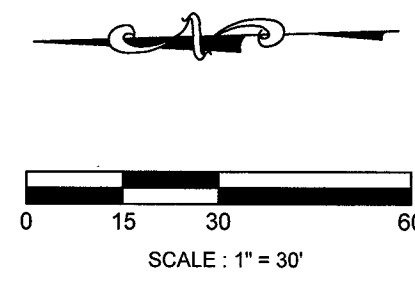
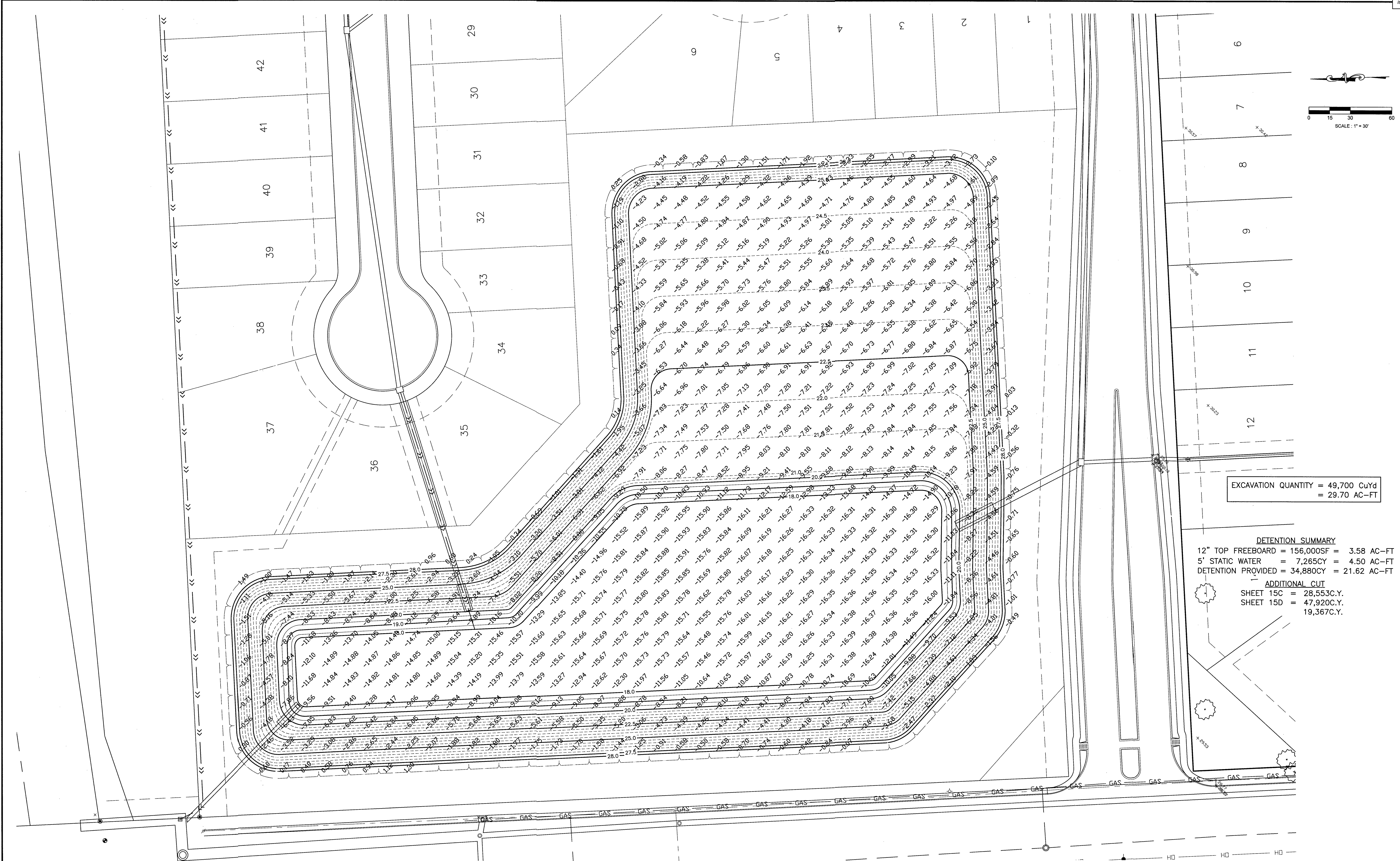
74

95 SHEET SET.DWG



PROJECT NO. 14395

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515



EXCAVATION QUANTITY = 49,700 CuYd
= 29.70 AC-FT

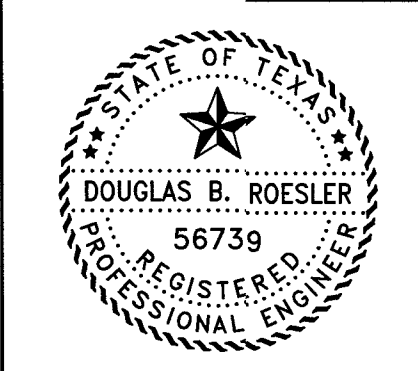
DETENTION SUMMARY
12" TOP FREEBOARD = 156,000SF = 3.58 AC-FT
5' STATIC WATER = 7,265CY = 4.50 AC-FT
DETENTION PROVIDED = 34,880CY = 21.62 AC-FT

ADDITIONAL CUT
SHEET 15C = 28,553C.Y.
SHEET 15D = 47,920C.Y.
19,367C.Y.

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED DR
DRAWN BT
CHECKED
DATE

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



The seal appearing on this document was authorized by Douglas B. Roesler P.E. 56739
Date: 04-18-02

OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

RECORD DRAWING

SECTION 1 & 2
POND EXCAVATION
CALCULATION PLAN

PROJECT NO. 14395

ULTIMATE OUTFALL FOR RUNS A AND C IS TO BRUSHY BAYOU
2004 LOMR HAS A 100 YEAR WSEL = 24.00' AND 5 YEAR WSEL 23.00'

NOTE: FOR WINDSTORM RUN A-11 TO A-16

ADDED 43.32 CFS TO INLET A-16 FOR 5-YEAR RUN FROM C-1 TO C-11
ADDED 63.95 CFS TO INLET A-16 FOR 100-YEAR RUN FROM C-1 TO C-11

Winstorm (STORM DRAIN DESIGN) Version 3.05, Jan. 25, 2002
Run @ 8/6/2021 1:33:44 PM

PROJECT NAME : Riverwood Section2
JOB NUMBER : 14395
PROJECT DESCRIPTION : Inlets A-11 to A-16 5-Year
DESIGN FREQUENCY : 5 Years
ANALYSIS FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN FREQUENCY of: 5 Years

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
A-11	0.55	2.44	15.00	15.00	5.66	0.000	7.592
A-12	0.55	1.35	15.00	15.00	5.66	0.000	4.200
A-13	0.55	1.24	15.00	15.00	5.66	0.000	3.858
A-14	0.55	2.28	15.00	15.00	5.66	0.000	7.094
A-15	0.55	0.31	15.00	15.00	5.66	0.000	0.965
A-16	0.55	1.04	15.00	15.00	5.66	0.000	3.236

Sag Inlets Configuration Data.

Inlet ID	Inlet Type	Inlet Length/Perim. (ft)	Grate Area (sf)	Left-Slope Long Trans (ft) (%)	Right-Slope Long Trans (ft) (%)	n	Gutter Depth (ft)	Depth Allowed (ft)	Critic Elev. (ft)
A-11	Curb	8.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50		0.50	31.00
A-12	Curb	4.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50		0.50	31.00
A-13	Curb	4.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50		0.50	31.00
A-14	Curb	7.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50		0.50	31.00
A-15	Curb	2.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50		0.50	29.40
A-16	Curb	3.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50		0.50	29.40

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Inlet Length (ft)	Grate Perim. (sf)	Grate Area (sf)	Total Q (cfs)	Inlet Capacity (cfs)	Head (ft)	Left (ft)	Right (ft)
A-11	Curb	8.00	n/a	n/a	7.592	8.701	0.457	12.85	12.85
A-12	Curb	4.00	n/a	n/a	4.200	5.448	0.420	10.30	10.30
A-13	Curb	4.00	n/a	n/a	3.858	5.448	0.397	10.00	10.00
A-14	Curb	7.00	n/a	n/a	7.094	7.888	0.466	12.55	12.55
A-15	Curb	2.00	n/a	n/a	0.965	3.822	0.200	5.95	5.95
A-16	Curb	3.00	n/a	n/a	3.236	4.635	0.393	9.35	9.35

Cumulative Junction Discharge Computations

I.D.	Node Type	C-Value	Dr. Area (acres)	Tc (min)	Cumulat. Intens. (in/hr)	Supply Q (cfs)	Additional Q in Node (cfs)	Total Disch. (cfs)
A-11	Curb	0.550	2.44	15.00	5.66	0.000	0.00	7.592
A-12	Curb	0.550	3.79	15.12	5.64	0.000	0.00	11.758
A-13	Curb	0.550	5.03	15.92	5.53	0.000	0.00	15.308
A-14	Curb	0.550	7.31	16.01	5.52	0.000	0.00	22.204
A-15	Curb	0.550	7.62	16.33	5.48	0.000	0.00	22.968
A-16	Curb	0.550	8.66	16.48	5.46	0.000	42.32	68.332
OUT	outlet	0.550	8.66	16.48	5.46	0.000	42.32	68.332

Conveyance Configuration Data

Run#	Node I.D.	US	DS	Flowline Elev. (ft)	Shape #	Span (ft)	Rise (ft)	Length (ft)	Slope (%)	n_value
13	A-11	A-12	24.31	24.22	Circ 1	0.00	2.00	30.00	0.30	0.013
14	A-12	A-13	24.22	23.23	Circ 1	0.00	2.50	248.00	0.40	0.013
15	A-13	A-14	23.23	23.08	Circ 1	0.00	2.50	30.00	0.50	0.013
16	A-14	A-15	23.08	22.41	Circ 1	0.00	2.50	130.00	0.52	0.013
17	A-15	A-16	22.41	22.24	Circ 1	0.00	2.50	50.00	0.34	0.013
18	A-16	OUT	20.72	20.06	Circ 1	0.00	4.50	130.00	0.51	0.013

Conveyance Hydraulic Computations. Tailwater = 23.000 (ft)

Run#	US Elev (ft)	DS Elev (ft)	Fr. Slope (%)	Unif. Actual (f/s)	Depth (ft)	Velocity (f/s)	Q (cfs)	Cap (cfs)	Junc Loss (ft)
13	25.47	25.40	0.113	1.13	1.18	4.17	3.93	7.59	12.39
14	25.40	24.71	0.082	1.18	1.48	5.15	3.90	11.76	25.92
15*	24.71	24.70	0.139	1.29	1.62	6.00	4.54	15.31	29.01
16	24.70	24.36	0.293	1.62	1.95	6.59	5.40	22.20	29.45
17	24.36	23.87	0.313	1.95	1.95	5.58	5.58	22.97	23.92
18*	23.16	23.00	0.121	2.21	2.94	8.77	6.21	68.33	140.14

* Super critical flow.

NORMAL TERMINATION OF WINSTORM.

Winstorm (STORM DRAIN DESIGN) Version 3.05, Jan. 25, 2002
Run @ 8/6/2021 1:34:46 PM

PROJECT NAME : Riverwood Section2
JOB NUMBER : 14395
PROJECT DESCRIPTION : Inlets A-11 to A-16 100-Yr
DESIGN FREQUENCY : 5 Years
ANALYSIS FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR ANALYSIS FREQUENCY of: 100 Years

Runoff Computation for Analysis Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
A-11	0.65	2.44	15.00	15.00	8.39	0.000	13.314
A-12	0.65	1.35	15.00	15.00	8.39	0.000	7.366
A-13	0.65	1.24	15.00	15.00	8.39	0.000	6.766
A-14	0.65	2.28	15.00	15.00	8.39	0.000	12.441
A-15	0.65	0.31	15.00	15.00	8.39	0.000	1.692
A-16	0.65	1.04	15.00	15.00	8.39	0.000	5.675

Sag Inlets Configuration Data.

Inlet ID	Inlet Type	Length/Perim (ft)	Grate Area (sf)	Left-Slope Long Trans (ft)	Right-Slope Long Trans (ft)	Gutter Depth (ft)	Depth (ft)	Critical Elev (ft)
A-11	Curb	15.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50	0.50	31.00
A-12	Curb	7.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50	0.50	31.00
A-13	Curb	7.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50	0.50	31.00
A-14	Curb	14.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50	0.50	31.00
A-15	Curb	2.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50	0.50	29.40
A-16	Curb	5.00	n/a	0.50 2.00	0.50 2.00 0.014	1.50	0.50	29.40

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Inlet Length (ft)	Grate Perim. (sf)	Grate Area (sf)	Total Q (cfs)	Inlet Capacity (cfs)	Total Head (ft)	Ponded Left (ft)	Ponded Right (ft)
A-11	Curb	15.00	n/a	n/a	13.314	14.393	0.475	15.90	15.90
A-12	Curb	7.00	n/a	n/a	7.366	7.888	0.478	12.75	12.75
A-13	Curb	7.00	n/a	n/a	6.766	7.888	0.451	12.35	12.35
A-14	Curb	14.00	n/a	n/a	12.441	13.580	0.472	15.50	15.50
A-15	Curb	2.00	n/a	n/a	1.692	3.822	0.290	7.35	7.35
A-16	Curb	5.00	n/a	n/a	5.675	6.261	0.468	11.55	11.55

Cumulative Junction Discharge Computations

I.D.	Node Type	C-Value	Dr. Area (acres)	Tc (min)	Cumulat. Intens. (in/hr)	Supply Q (cfs)	Additional Q in Node (cfs)	Total Disch. (cfs)
A-11	Curb	0.650	2.44	15.00	8.39	0.000	0.00	13.314
A-12	Curb	0.650	3.79	15.11	8.38	0.000	0.00	20.632
A-13	Curb	0.650	5.03	15.82	8.26	0.000	0.00	26.998
A-14	Curb	0.650	7.31	15.89	8.25	0.000	0.00	39.177
A-15	Curb	0.650	7.62	16.17	8.20	0.000	0.00	40.610
A-16	Curb	0.650	8.66	16.24	8.19	0.000	63.95	110.041
OUT	outlet	0.650	8.66	16.24	8.19	0.000	63.95	110.041

Conveyance Configuration Data

Run#	Node I.D.	US	DS	Flowline Elev. (ft)	Shape #	Span (ft)	Rise (ft)	Length (ft)	Slope (%)	n_value
13	A-11	A-12	24.31	24.22	Circ 1	0.00	2.00	30.00	0.30	0.013
14	A-12	A-13	24.22	23.23	Circ 1	0.00	2.50	248.00	0.40	0.013
15	A-13	A-14	23.23	23.08	Circ 1	0.00	2.50	30.00	0.50	0.013
16	A-14	A-15	23.08	22.41	Circ 1	0.00	2.50	135.00	0.50	0.013
17	A-15	A-16	22.41	22.24	Circ 1	0.00	2.50	34.00	0.50	0.013
18	A-16	OUT	20.72	20.46	Circ 1	0.00	4.50	130.00	0.20	0.013

Conveyance Hydraulic Computations. Tailwater = 24.000 (ft)

Run#	US Elev (ft)	DS Elev (ft)	Fr. Slope (%)	Unif. Actual (f/s)	Depth (ft)	Velocity (f/s)	Q (cfs)	Cap (cfs)	Junc Loss (ft)
13	27.79	27.69	0.346	1.88	2.00	4.35	4.24	13.31	12.39
14	27.69	27.06	0.253	1.68	2.50	5.88	4.20	20.63	25.92
15	27.06	26.93	0.433	1.91	2.50	6.69	5.50	27.00	29.01
16	26.93	25.70	0.912	2.50	2.50	7.98	7.98	39.18	28.90
17	25.70	25.37	0.980	2.50	2.50	8.27	8.27	40.61	29.01
18	25.37	24.96	0.313	4.50	4.50	6.92	6.92	110.04	87.96

NORMAL TERMINATION OF WINSTORM.

ULTIMATE OUTFALL FOR RUN B IS TO HOSPITAL DRIVE OUTFALL CHANNEL
HOSPITAL DRIVE H & H HAS A 100 YEAR WSEL = 27.50' AND 5 YEAR WSEL 27.00' +/-

Winstorm (STORM DRAIN DESIGN) Version 3.05, Jan. 25, 2002
Run @ 8/6/2021 1:24:00 PM

PROJECT NAME : Riverwood Section 2
JOB NUMBER : 14395
PROJECT DESCRIPTION : Inlets I-1 to I-5 Drain to Hospital 5-Year
DESIGN FREQUENCY : 5 Years
ANALYSIS FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN FREQUENCY of: 5 Years

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
B-1	0.55	0.85	15.00	15.00	5.66	0.000	2.645
B-2	0.55	1.22	15.00	15.00	5.66	0.000	3.796
B-3	0.55	1.10	15.00	15.00	5.66	0.000	3.423
B-4	0.55	1.34	15.00	15.00	5.66	0.000	4.169
B-5	0.55	1.76	15.00	15.00	5.66	0.000	5.476

Sag Inlets Configuration Data.

Inlet ID	Inlet Type	Length/Perim. (ft)	Grate Area (sf)	Left-Slope Long Trans (ft)	Right-Slope Long Trans (ft)	Gutter Depn n	Depth Allowed (ft)	Critical Elev. (ft)
B-1	Curb	3.00	n/a	0.50 2.00	0.50 2.00	0.014	1.50 0.50	28.39
B-2	Curb	4.00	n/a	0.50 2.00	0.50 2.00	0.014	1.50 0.50	28.26
B-3	Curb	4.00	n/a	0.50 2.00	0.50 2.00	0.014	1.50 0.50	28.39
B-4	Curb	4.00	n/a	0.50 2.00	0.50 2.00	0.014	1.50 0.50	28.38
B-5	Curb	5.00	n/a	0.50 2.00	0.50 2.00	0.014	1.50 0.50	28.38

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Inlet Length (ft)	Grate Perim. (sf)	Grate Area (sf)	Total Q (cfs)	Inlet Capacity (cfs)	Total Head (ft)	Ponded Left (ft)	Ponded Right (ft)
B-1	Curb	3.00	n/a	n/a	2.645	4.635	0.344	8.65	8.65
B-2	Curb	4.00	n/a	n/a	3.796	5.448	0.393	9.95	9.95
B-3	Curb	4.00	n/a	n/a	3.423	5.448	0.367	9.55	9.55
B-4	Curb	4.00	n/a	n/a	4.169	5.448	0.418	10.30	10.30
B-5	Curb	5.00	n/a	n/a	5.476	6.261	0.457	11.40	11.40

Cumulative Junction Discharge Computations

ULTIMATE OUTFALL FOR RUNS A AND C IS TO BRUSHY BAYOU
2004 LOMR HAS A 100 YEAR WSEL = 24.00' AND 5 YEAR WSEL 23.00'

Winstorm (STORM DRAIN DESIGN)

Version 3.05, Jan. 25, 2002
Run @ 8/6/2021 1:15:53 PM

PROJECT NAME : Riverwood Section 2untitled
JOB NUMBER : 14395
PROJECT DESCRIPTION : Original Run from Riverwood Section1 - 5 Year
DESIGN FREQUENCY : 5 Years
ANALYSYS FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN FREQUENCY of: 5 Years

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
C-1	0.55	1.48	15.00	15.00	5.66	0.000	4.605
C-2	0.55	1.84	15.00	15.00	5.66	0.000	5.725
C-3	0.55	0.74	15.00	15.00	5.66	0.000	2.302
C-4	0.55	2.33	15.00	15.00	5.66	0.000	7.250
C-5	0.55	1.67	15.00	15.00	5.66	0.000	5.196
C-6	0.55	1.13	15.00	15.00	5.66	0.000	3.516
C-7	0.55	1.10	15.00	15.00	5.66	0.000	3.423
C-8	0.55	1.19	15.00	15.00	5.66	0.000	3.703
C-9	0.55	0.24	15.00	15.00	5.66	0.000	0.747
C-10	0.55	1.47	15.00	15.00	5.66	0.000	4.574
C-11	0.55	1.23	15.00	15.00	5.66	0.000	3.827

Sag Inlets Configuration Data.

Inlet ID	Inlet Type	Inlet Length/Perim. (ft)	Grate Area (sf)	Left-Slope Long Trans (ft)	Right-Slope Long Trans (ft)	Gutter n	Depth Depn (ft)	Allowed (ft)	Critic Elev. (ft)		
C-1	Curb	4.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	28.80
C-2	Curb	5.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	28.80
C-3	Curb	3.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	30.00
C-4	Curb	7.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	28.75
C-5	Curb	5.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.00
C-6	Curb	4.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.00
C-7	Curb	4.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	30.10
C-8	Curb	4.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	30.10
C-9	Curb	2.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.90
C-10	Curb	4.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.50
C-11	Curb	4.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.50

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Inlet Length (ft)	Perim Area (sf)	Grate Area (sf)	Total Q (cfs)	Inlet Capacity (cfs)	Inlet Head (ft)	Ponded width Left (ft)	Ponded width Right (ft)
C-1	Curb	4.00	n/a	n/a	4.605	5.448	0.447	10.65	10.65
C-2	Curb	5.00	n/a	n/a	5.725	6.261	0.471	11.60	11.60
C-3	Curb	3.00	n/a	n/a	2.302	4.635	0.314	8.25	8.25
C-4	Curb	7.00	n/a	n/a	7.250	7.888	0.473	12.65	12.65
C-5	Curb	5.00	n/a	n/a	5.196	6.261	0.442	11.15	11.15
C-6	Curb	4.00	n/a	n/a	3.516	5.448	0.373	9.65	9.65
C-7	Curb	4.00	n/a	n/a	3.423	5.448	0.367	9.55	9.55
C-8	Curb	4.00	n/a	n/a	3.703	5.448	0.386	9.85	9.85
C-9	Curb	2.00	n/a	n/a	0.747	3.822	0.168	5.40	5.40
C-10	Curb	4.00	n/a	n/a	4.574	5.448	0.445	10.65	10.65
C-11	Curb	4.00	n/a	n/a	3.827	5.448	0.395	9.95	9.95

Cumulative Junction Discharge Computations

Node I.D.	Node Type	Node Weighted C-value	Cumulat. Dr. Area (acres)	Cumulat. Tc (min)	Cumulat. Intensity (in/hr)	User Supply Q (cfs)	Cumulat. Q in Node (cfs)	Additional Q in Node (cfs)	Total Disch. (cfs)
C-1	Curb	0.550	1.48	15.00	5.66	0.000	0.00	0.00	4.605
C-2	Curb	0.550	3.32	15.07	5.65	0.000	0.00	10.313	10.313
C-3	Curb	0.550	4.06	15.06	5.54	0.000	0.00	12.374	12.374
C-4	Curb	0.550	2.33	15.00	5.66	0.000	0.00	7.250	7.250
C-5	Curb	0.550	1.67	15.00	5.66	0.000	0.00	5.196	5.196
C-6	Curb	0.550	5.13	15.22	5.63	0.000	0.00	15.875	15.875
C-7	Curb	0.550	10.29	15.97	5.53	0.000	0.00	31.280	31.280
C-8	Curb	0.550	11.48	16.21	5.50	0.000	0.00	34.700	34.700
JB-1	CircWh	0.550	11.48	16.21	5.50	0.000	0.00	34.700	34.700
JB-2	Junct	0.550	14.42	17.50	5.34	0.000	0.00	42.320	42.320
C-9	Curb	0.550	0.24	15.00	5.66	0.000	0.00	0.747	0.747
C-10	Curb	0.550	1.47	15.00	5.66	0.000	0.00	4.574	4.574
C-11	Curb	0.550	2.70	15.15	5.64	0.000	0.00	8.370	8.370
OUT	outlet	0.550	14.42	17.50	5.34	0.000	0.00	42.320	42.320

Conveyance Configuration Data

Run#	Node I.D.	Flowline Elev. (US Ft)	Elev. (US Ft)	Shape #	Span (ft)	Rise (ft)	Length (Ft)	Slope (%)	n_value
1	C-1	25.00	24.44	Circ 1	0.00	1.50	30.00	1.87	0.013
2	C-2	24.44	23.18	Circ 1	0.00	2.50	255.00	0.49	0.013
3	C-3	23.18	23.04	Circ 1	0.00	2.50	35.00	0.40	0.013
4	C-4	23.72	23.60	Circ 1	0.00	2.00	50.00	0.24	0.013
5	C-5	23.66	23.60	Circ 1	0.00	2.00	29.00	0.21	0.013
6	C-6	23.60	23.04	Circ 1	0.00	3.00	200.00	0.28	0.013
7	C-7	23.04	22.83	Circ 1	0.00	3.00	80.00	0.26	0.013
8	C-8	22.83	22.46	Circ 1	0.00	3.00	140.00	0.26	0.013
9	JB-1	22.46	21.74	Circ 1	0.00	3.00	280.00	0.26	0.013
10	C-9	25.00	24.94	Circ 1	0.00	1.50	29.00	0.21	0.013
11	C-10	25.00	24.94	Circ 1	0.00	2.00	29.00	0.21	0.013
12	C-11	24.94	24.88	Circ 1	0.00	2.00	20.00	0.30	0.013
13	JB-2	24.88	20.72	Circ 1	0.00	4.00	378.00	0.27	0.013

Conveyance Hydraulic Computations. Tailwater = 23.000 (ft)

Run#	Hydraulic US Elev (Ft)	GradeLine DS Elev (Ft)	Fr.Slope (%)	Depth Unif. (Ft)	Actual (Ft)	Velocity Unif. (f/s)	Actual (f/s)	Q (cfs)	Cap Loss (cfs)	Junc Loss (Ft)
1*	25.76	25.70	0.192	0.58	1.26	7.23	2.91	4.60	14.35	0.000
2*	25.70	25.54	0.063	1.04	2.36	5.37	2.15	10.31	28.84	0.000
3	25.54	25.52	0.091	1.21	2.48	5.25	2.52	12.37	25.95	0.000
4	25.65	25.60	0.103	1.19	2.00	3.71	2.31	7.25	11.08	0.000
5	25.62	25.60	0.053	1.00	2.00	3.31	1.65	5.20	10.29	0.000
6	25.60	25.52	0.057	1.41	2.48	4.88	2.54	15.88	35.30	0.000
7	25.52	25.36	0.220	2.25	2.53	5.50	4.92	31.28	34.18	0.000
8	25.36	24.99	0.271	2.53	2.53	5.45	5.45	34.70	34.29	0.000
9	24.99	23.90	0.271	2.53	2.53	5.45	5.45	34.70	33.83	0.000
10	25.49	25.26	0.005	0.40	0.40	1.98	1.98	0.75	4.78	0.000
11	26.16	26.14	0.041	0.94	1.20	3.16	2.32	4.57	10.29	0.000
12	26.14	25.91	0.137	1.20	1.20	4.24	4.24	8.37	12.39	0.000
13	23.90	23.00	0.087	2.16	2.28	6.13	5.72	42.32	74.63	0.000

* Super critical flow.

NORMAL TERMINATION OF WINSTORM.

Winstorm (STORM DRAIN DESIGN)

Version 3.05, Jan. 25, 2002
Run @ 8/6/2021 1:13:45 PM

PROJECT NAME : Riverwood Section 2untitled
JOB NUMBER : 14395
PROJECT DESCRIPTION : Original Run from Riverwood Section1 - 100 Year
DESIGN FREQUENCY : 5 Years
ANALYSYS FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR ANALYSYS FREQUENCY of: 100 Years

Runoff Computation for Analysis Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
C-1	0.55	1.48	15.00	15.00	8.39	0.000	6.833
C-2	0.55	1.84	15.00	15.00	8.39	0.000	8.496
C-3	0.55	0.74	15.00	15.00	8.39	0.000	3.417
C-4	0.55	2.33	15.00	15.00	8.39	0.000	10.758
C-5	0.55	1.67	15.00	15.00	8.39	0.000	7.711
C-6	0.55	1.13	15.00	15.00	8.39	0.000	5.217
C-7	0.55	1.10	15.00	15.00	8.39	0.000	5.079
C-8	0.55	1.19	15.00	15.00	8.39	0.000	5.494
C-9	0.55	0.24	15.00	15.00	8.39	0.000	1.108
C-10	0.55	1.47	15.00	15.00	8.39	0.000	6.787
C-11	0.55	1.23	15.00	15.00	8.39	0.000	5.679

Sag Inlets Configuration Data.

Inlet ID	Inlet Type	Length/Perim. (ft)	Grate Area (sf)	Left-Slope Area (%)	Left-Slope Slope (%)	Right-Slope Area (%)	Right-Slope Slope (%)	Gutter n	Depth Depn (ft)	Allowed (ft)	Critical Elev. (ft)
C-1	Curb	7.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	28.80
C-2	Curb	9.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	28.80
C-3	Curb	4.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	30.00
C-4	Curb	12.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	28.75
C-5	Curb	8.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.00
C-6	Curb	5.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.00
C-7	Curb	5.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	30.10
C-8	Curb	5.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	30.10
C-9	Curb	2.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.90
C-10	Curb	7.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.50
C-11	Curb	5.00	n/a	0.50	2.00	0.50	2.00	0.014	1.50	0.50	29.50

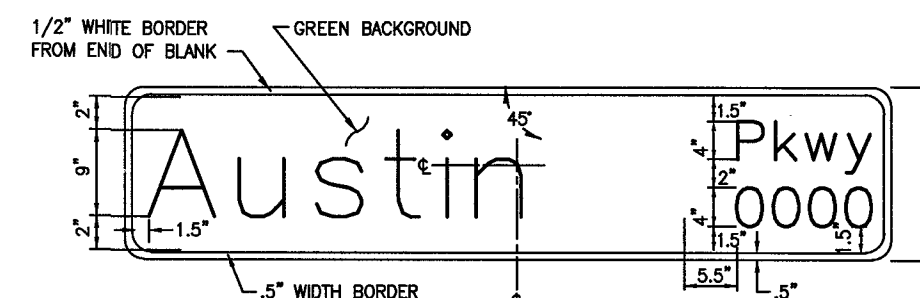
Sag Inlets Computation Data.

Inlet ID	Inlet Type	Length (ft)	Grate Perim Area (sf)	Total Q (cfs)	Inlet Capacity (cfs)	Total Head (ft)	Ponded Left (ft)	Width (ft)
C-1	Curb	7.00	n/a	n/a	6.833	7.888	0.454	12.40
C-2	Curb	9.00	n/a	n/a	8.496	9.514	0.464	13.45
C-3	Curb	4.00	n/a	n/a	3.417	5.448	0.366	9.55
C-4	Curb	12.00	n/a	n/a	10.758	11.954	0.466	14.65
C-5	Curb	8.00	n/a	n/a	7.711	8.701	0.461	12.95
C-6	Curb	5.00	n/a	n/a	5.217	6.261	0.443	11.20
C-7	Curb	5.00	n/a	n/a	5.079	6.261	0.435	11.05
C-8	Curb	5.00	n/a	n/a	5.494	6.261	0.458	11.40
C-9	Curb	2.00	n/a	n/a	1.108	3.822	0.239	6.25
C-10	Curb	7.00	n/a	n/a	6.787	7.888	0.452	12.35
C-11	Curb	5.00	n/a	n/a	5.679	6.261	0.468	11.55

GENERAL CONSTRUCTION NOTES:

1. SECURELY ATTACH STREET NAME SIGN TO TRAFFIC SIGNAL SUPPORT WIRES WITH MULTI-LEVELING, WIND DUMPING BRACKETS.
2. SUPPORT WIRES SHOULD NOT BE PROHIBITED FROM INDEPENDENT MOVEMENT.
3. INSTALL ONE STREET NAME SIGN APPROXIMATE 2' FROM POLE ABOVE ON-COMING TRAFFIC ON EACH TRAFFIC SIGNAL SIDE.
4. THE FIRST LETTER OF EACH WORD SHALL BE UPPER CASE, SUBSEQUENT LETTERS SHALL BE LOWER CASE, ALL INDIVIDUAL LETTERS FOR EXAMPLE "T.M.C." SHALL BE UPPER CASE. STREET SURFACES & "NO OUTLET" SHALL BE UPPER CASE.
5. ALL SHEETING SHALL BE "DIAMOND GRADE" OR APPROVED EQUAL.
6. USE ANODIZED ALUMINUM.
7. STREET SIGN FONTS SHALL BE HELVETICA BOLD, MEDIUM STYLE.
8. MINIMUM SIGN THICKNESS: 1" SIGNS = .007", 14" SIGNS = .1875"

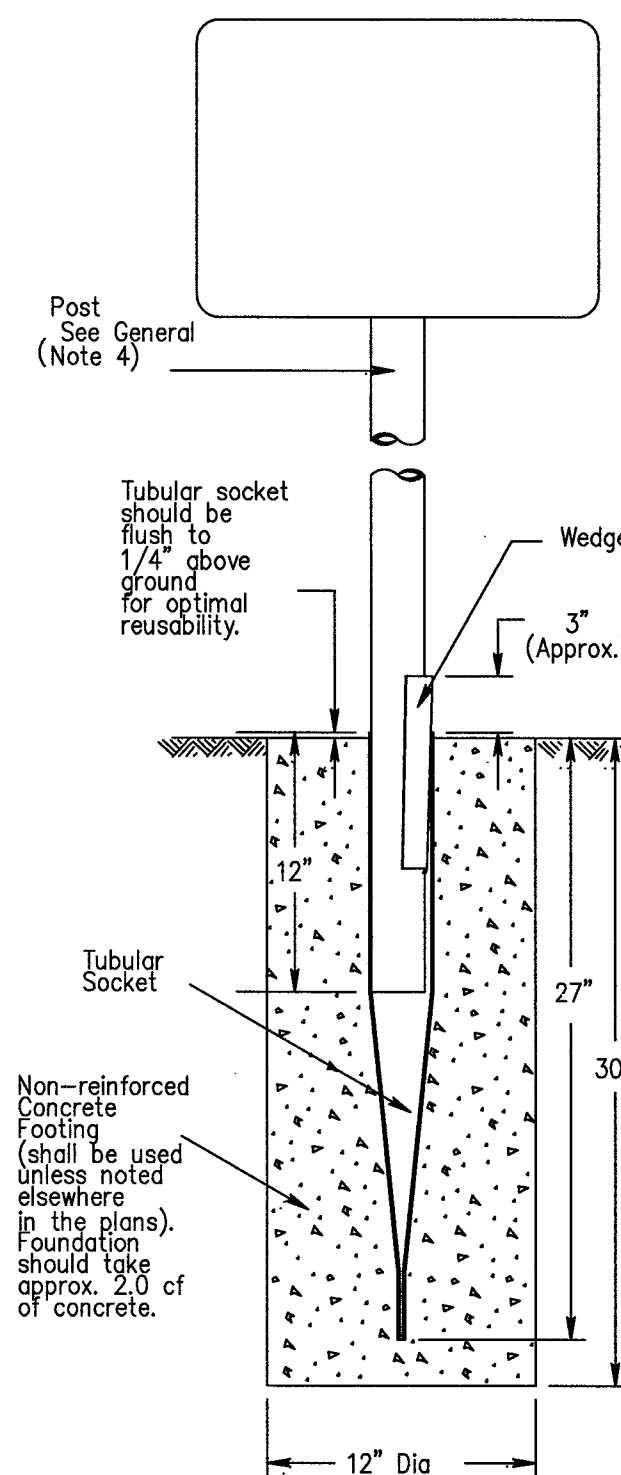
SL-ST-68



- NOTES:
1. HELVETICA BOLD, MEDIUM STYLE, WITH 8" UPPER CASE LETTERS AND 6" LOWER CASE LETTERS. REFER TO C.O.S.L. DESIGN STANDARDS FOR MORE INFO.
- SL-ST-67

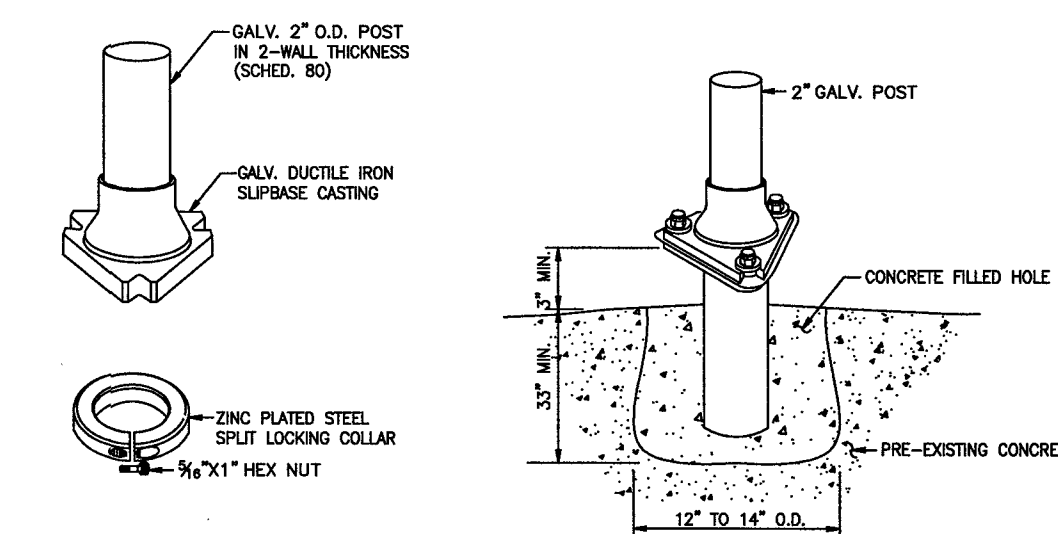
DETAIL OF SIGN
FOR MAST ARM TRAFFIC
SIGNAL POLES

Wedge Anchor
System



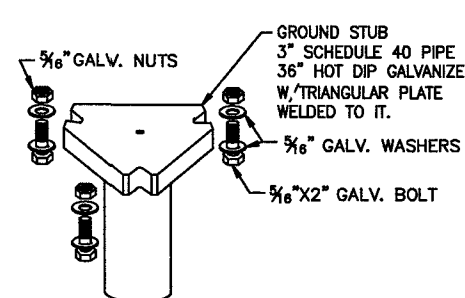
SM RD SGN ASSM TY TWT(X)WA(P)
SL-ST-62

SL-ST-68



CONCRETE SIGN PEDESTAL
NTS

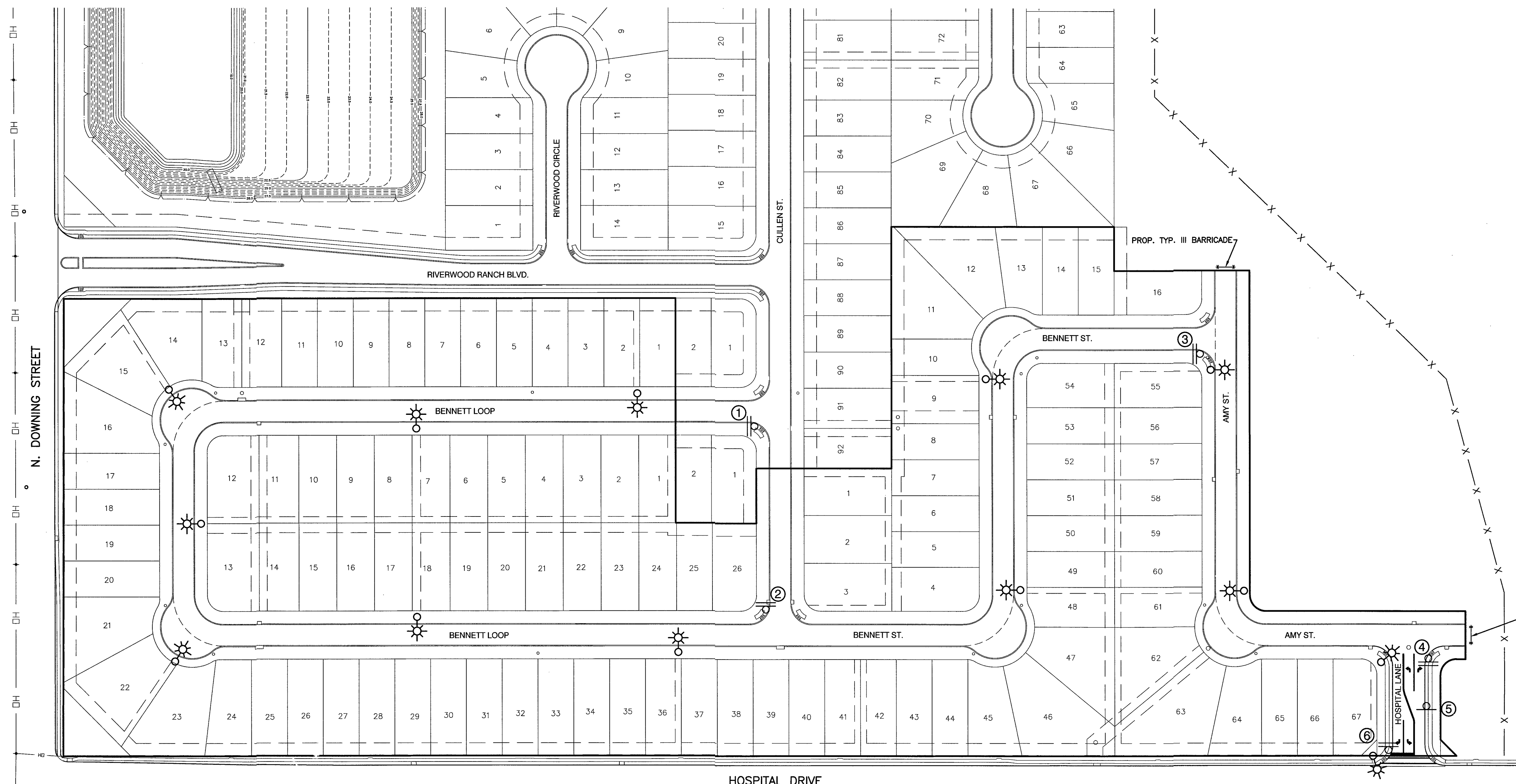
- NOTES:
1. FILL HOLE TO GROUND LEVEL.
 2. PRESS BASE INTO CENTER OF CONCRETE.
 3. LEVEL BASE 3\"/>



POZ-LOCK SLIPBASE
SYSTEM
NTS

SL-ST-64

RECORD DRAWING



☼ STREET AREA LIGHTING (12 LOCATIONS)

☐ STREET SIGNS (5 LOCATIONS)

○ STREET SIGNS (1 LOCATION)
30 MPH

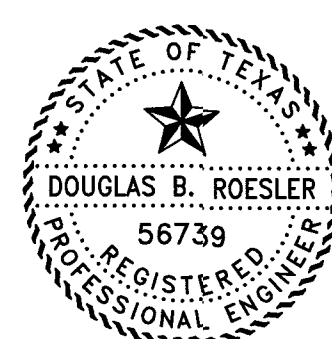
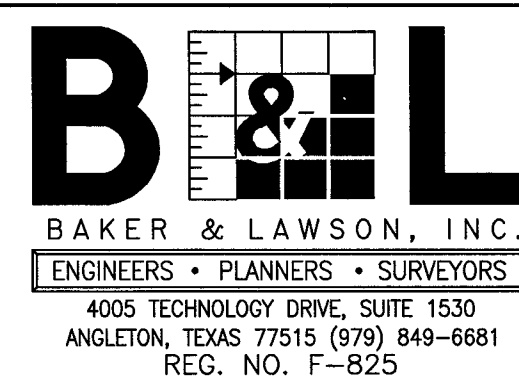
LIGHTING PLAN PROVIDED IS SHOWN AS RECOMMENDED. FINAL LOCATIONS AND QUANTITIES ARE DETERMINED BY TEXAS NEW MEXICO POWER (TNMP).

STREET SIGNS

- 1 STOP - FACING BENNETT LOOP
BENNETT STREET / CULLEN STREET
- 2 STOP - FACING CULLEN STREET
CULLEN STREET / BENNETT LOOP
- 3 STOP - FACING BENNETT STREET
BENNETT STREET / AMY STREET
- 4 STOP - FACING HOSPITAL LANE
HOSPITAL LANE / AMY STREET
- 5 30 MPH SPEED LIMIT
- 6 STOP - FACING HOSPITAL LANE
HOSPITAL LANE / HOSPITAL DRIVE

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED DR
DRAWN BT
CHECKED
DATE



The seal appearing on this document was authorized by Douglas B. Roesler P.E. 56739
Date: 04-16-22

OWNER:

RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

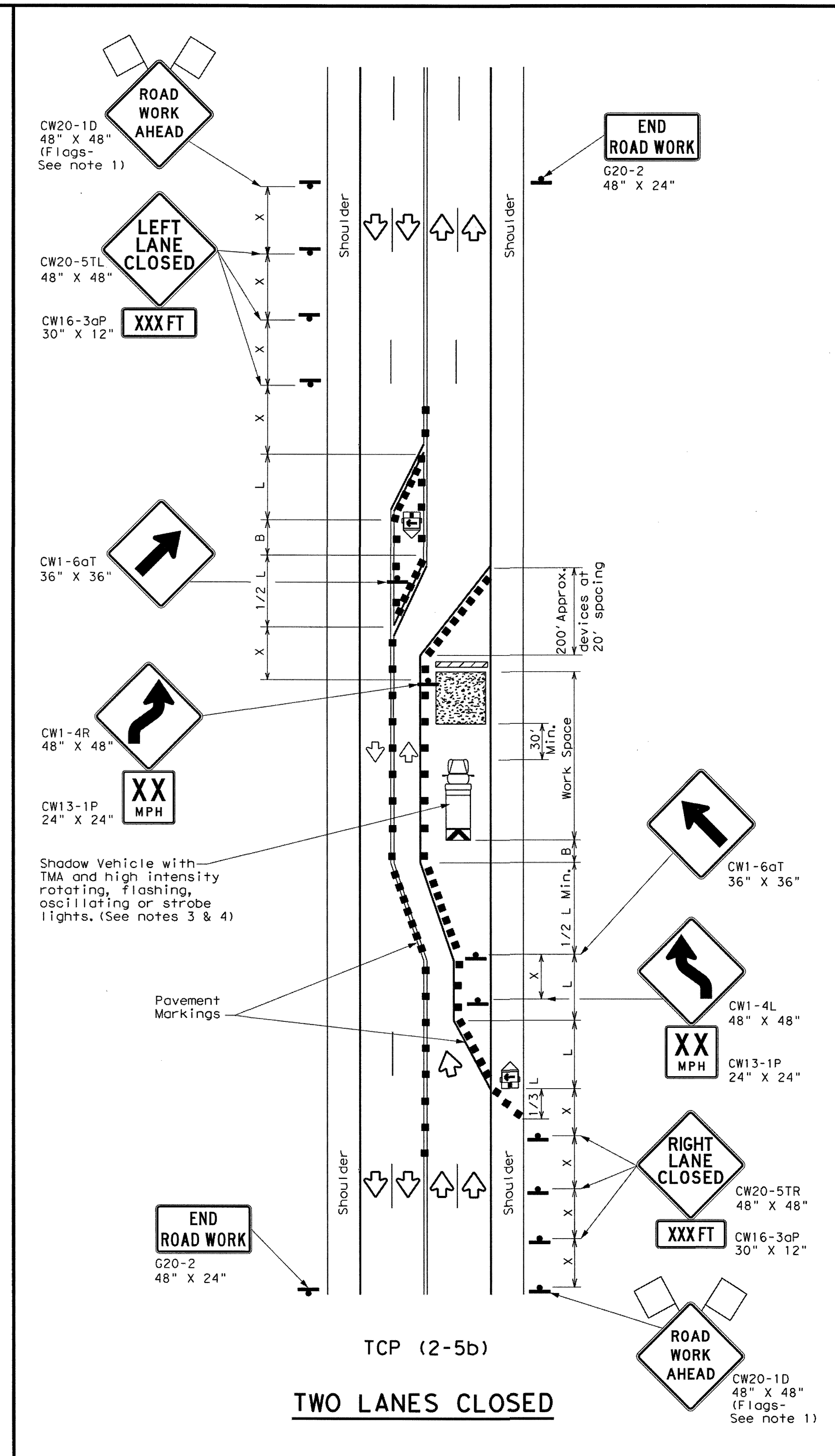
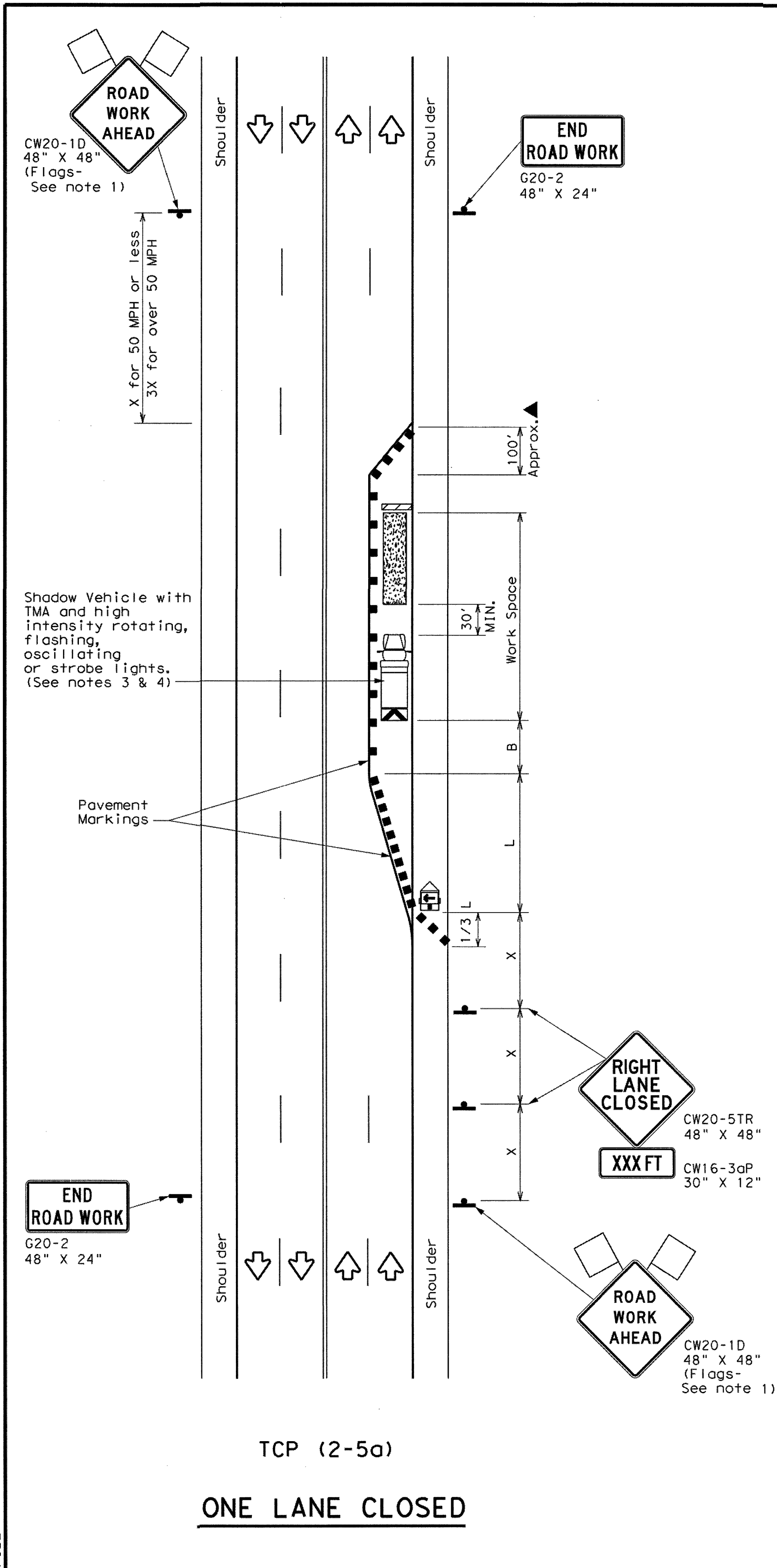
RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

PAVEMENT MARKING,
STREET SIGN AND
ROADWAY LIGHTING LAYOUT

PROJECT NO. 14395

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT or any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: FILE:



LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed * X	Formula	Minimum Desirable Taper Lengths ** X X			Suggested Maximum Spacing of Channelizing Devices On a Taper On a Tangent		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	L = WS / 60	10' Offset	11' Offset	12' Offset	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50	L = WS	500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off.

L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.
- The downstream taper is optional. When used, it should be 100 feet approximately per lane, with channelizing devices spaced at 20 feet.

TCP (2-5a)

- If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline to protect the work space from opposing traffic, with the arrow board placed in the closed lane near the end of the merging taper.

TCP (2-5b)

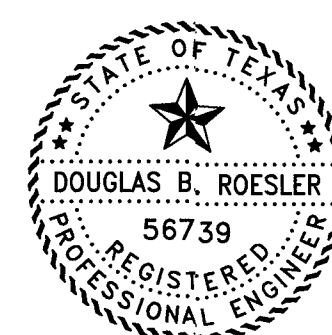
- Conflicting pavement markings shall be removed for long-term projects.

		Traffic Operations Division Standard	
TRAFFIC CONTROL PLAN LONG TERM LANE CLOSURES MULTILANE CONVENTIONAL RDS.			
TCP (2-5) - 18			
FILE: tcp2-5-18.dgn	DWG: Ck1	DWG: Dk1	CHK: Ck1
© TxDOT December 1985	CONT	SECT	JOB
8-95 2-12 REVISIONS		DIST	
1-97 3-03		COUNTY	
4-98 2-18		SHEET NO.	
165			

RECORD DRAWING

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

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



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Date: 04-18-02

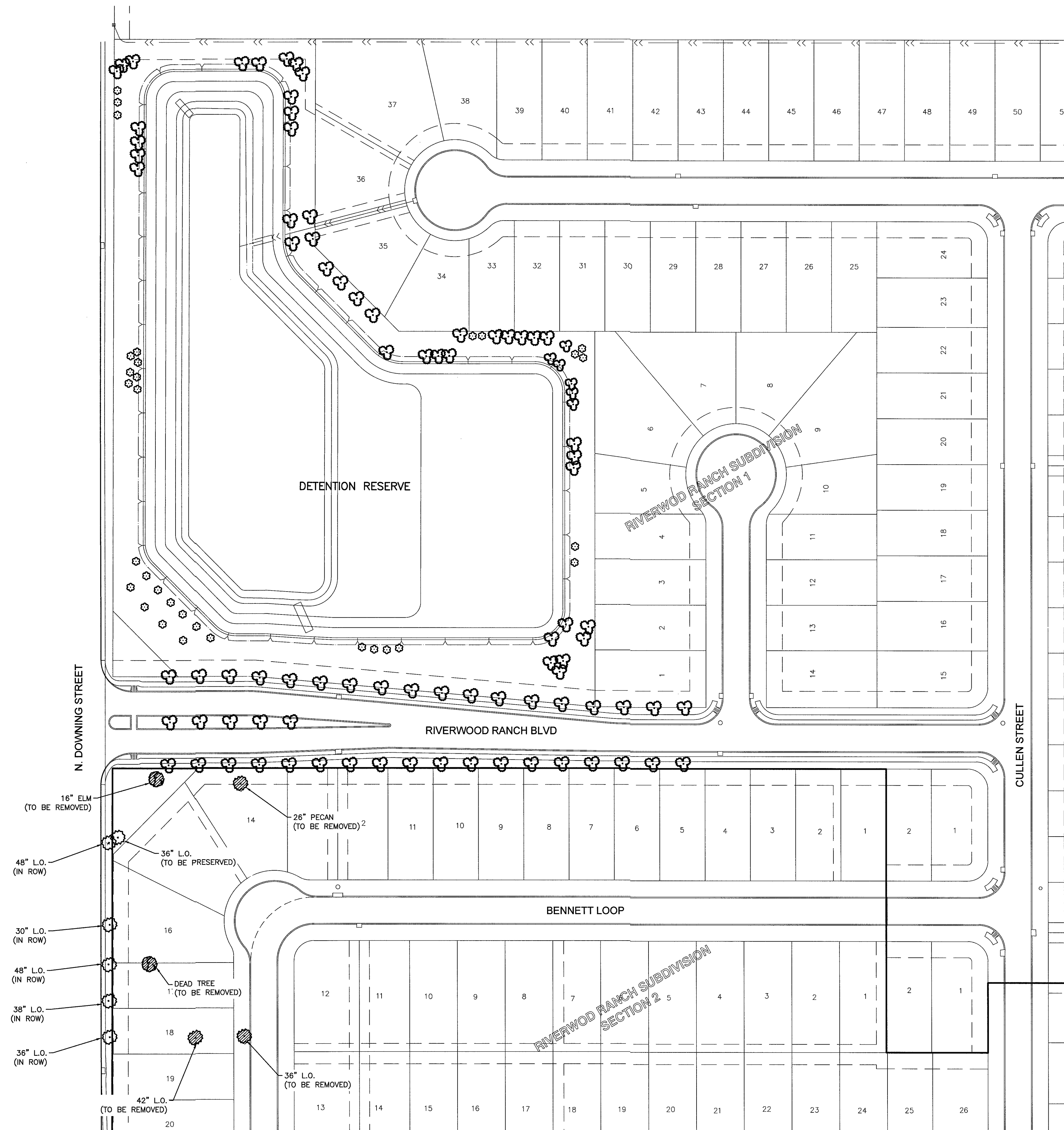
OWNER:
**RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057**

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

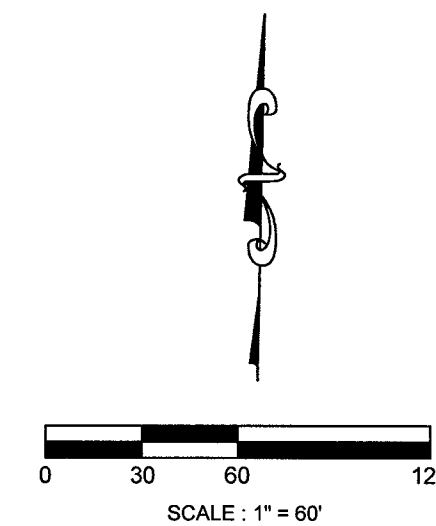
**RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515**

TRAFFIC CONTROL PLAN
TCP (1-1)-18

PROJECT NO. 14395



TREE LEGEND	
	HERITAGE TREE (PECAN & LIVE OAK)
	SIGNIFICANT TREE (OAK & ELM)
	PROP CREPE MYRTLE
	PROP OAK TREE



SITE TREE SUMMARY

TOTAL NUMBER OF HERITAGE TREES = 4
 TOTAL CALIPER OF HERITAGE TREES = 140 IN

HERITAGE TREES TO BE REMOVED* = 3
 CALIPER OF REMOVED HERITAGE TREES = 104 IN

HERITAGE & SIGNIFICANT TREES TO BE PRESERVED = 1
 CALIPER OF HERITAGE/SIGNIFICANT TREES TO BE PRESERVED = 36 IN

REQUIRED REPLACEMENT CALIPER = $(104 - 36) \times 3 = 204"$

REQUIRED REPLACEMENT TREES (3"-CALIPER OAK TREES) = 68 TREES

REPLACEMENT TREES PROVIDED IN RIVERWOOD RANCH BLVD ROW = 41 TREES
 REPLACEMENT TREES PROVIDED IN DETENTION RESERVE = 49 TREES
 TOTAL REPLACEMENT TREES PROVIDED = 90 TREES

32 PROPOSED CREPE MYRTLE ARE PROVIDED IN THIS TREE PRESERVATION PLAN.
 CREPE MYRTLES ARE NOT CLASSIFIED AS REPLACEMENT TREES AND ARE NOT COUNTED TOWARDS THE REPLACEMENT TOTAL.

PER SECTION 23-60.H.7 OF THE ANGLETON LDC, THE HOMEOWNER WILL PROVIDE TWO TREES PER LOT IN ADDITION TO THE REQUIRED REPLACEMENT CALIPER.

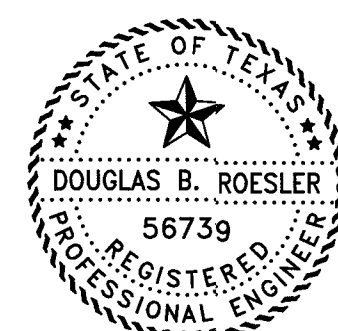
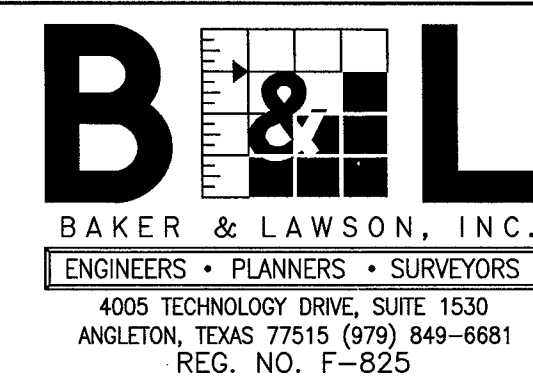
TREES LOCATED IN THE SOUTH DOWNING ROW ARE TO BE PRESERVED. TREES IN THE DOWLING ROW ARE NOT COUNTED FOR OR AGAINST THE HERITAGE TREE PRESERVATION PLAN.

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

REVISIONS

DESIGNED DR
 DRAWN BT
 CHECKED
 DATE



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Date: 04-18-22

OWNER:

RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

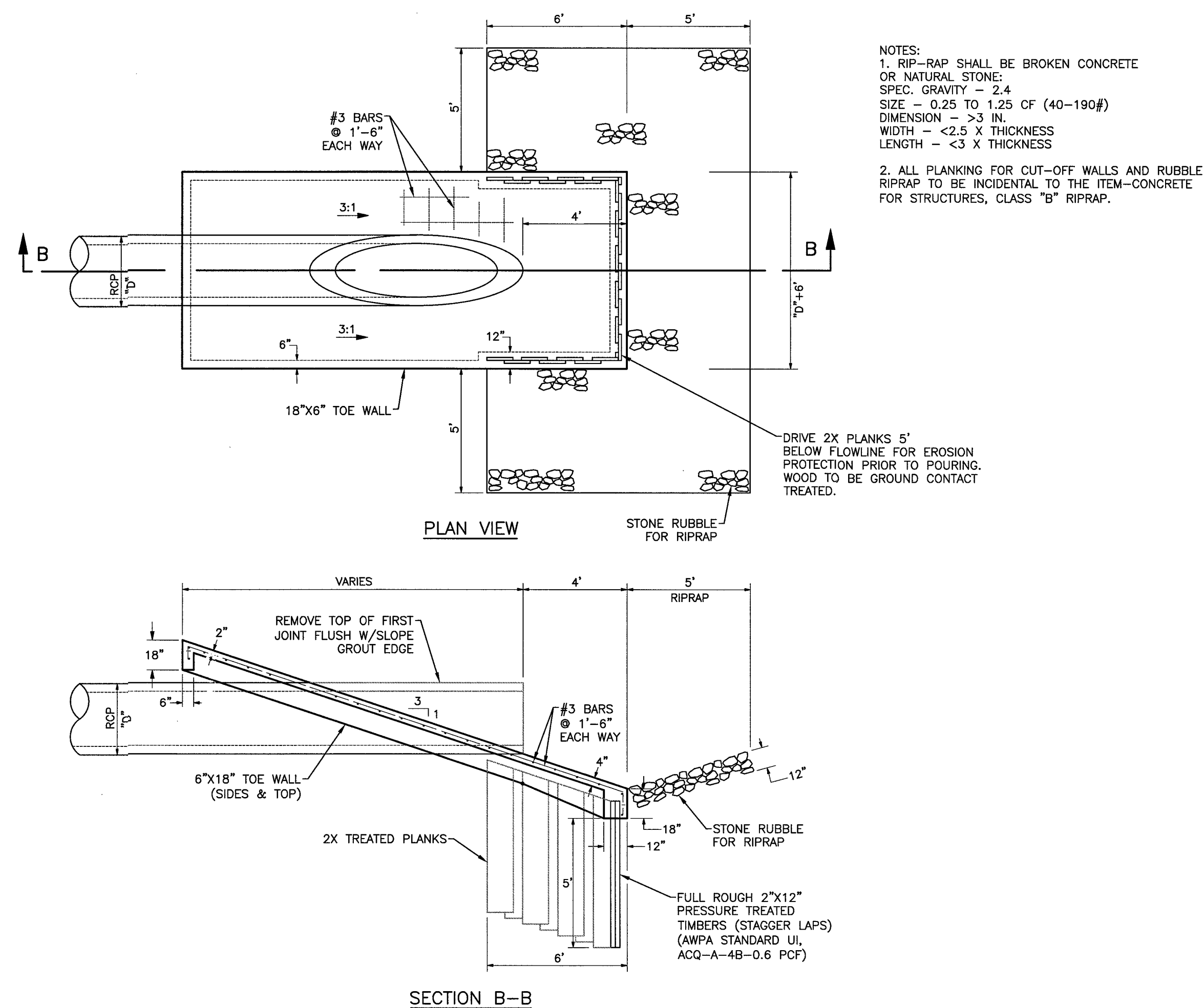
RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

HERITAGE TREE
 PRESERVATION PLAN

PROJECT NO. 14395

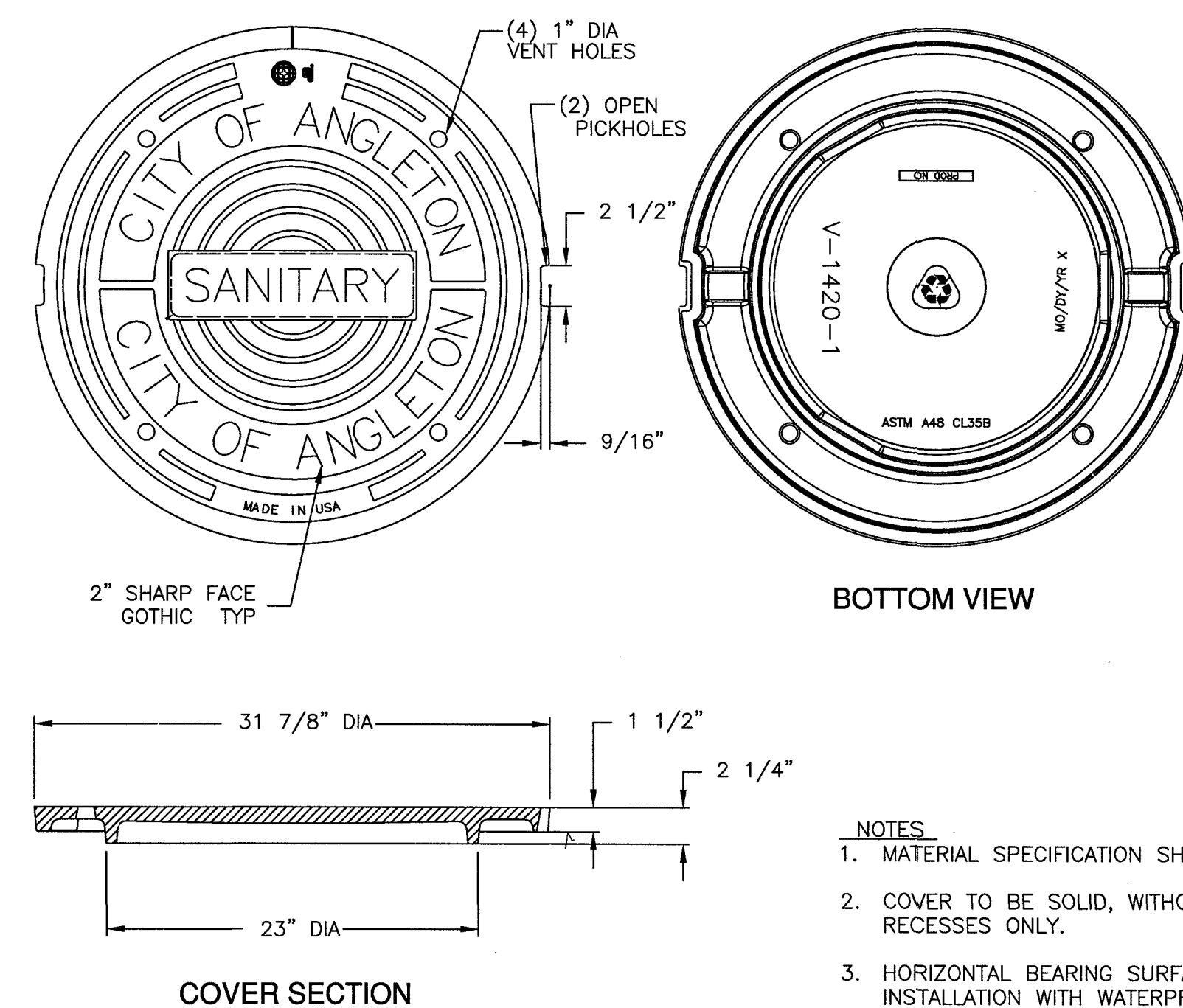
26A

81 SHEET SETDOW



TYPE (A)
STANDARD CONCRETE SLOPE PAVING PIPE OUTFALL
NTS

V1420-1 Cover

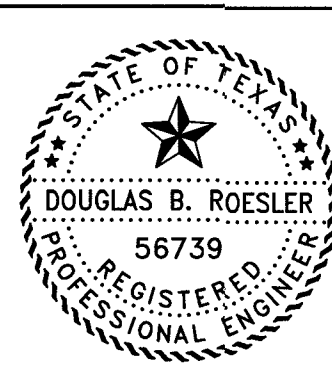
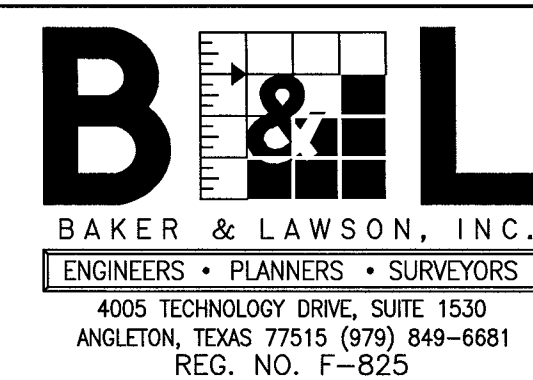


1 32" Manhole Cover and Frame
Scale: NTS

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	DR
DRAWN	BT
CHECKED	
DATE	



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Date: 04-28-22

OWNER:

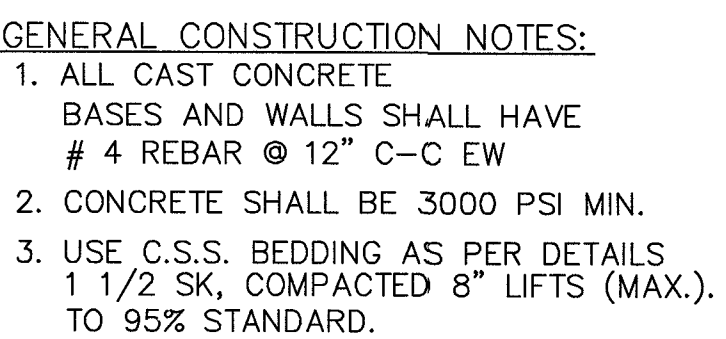
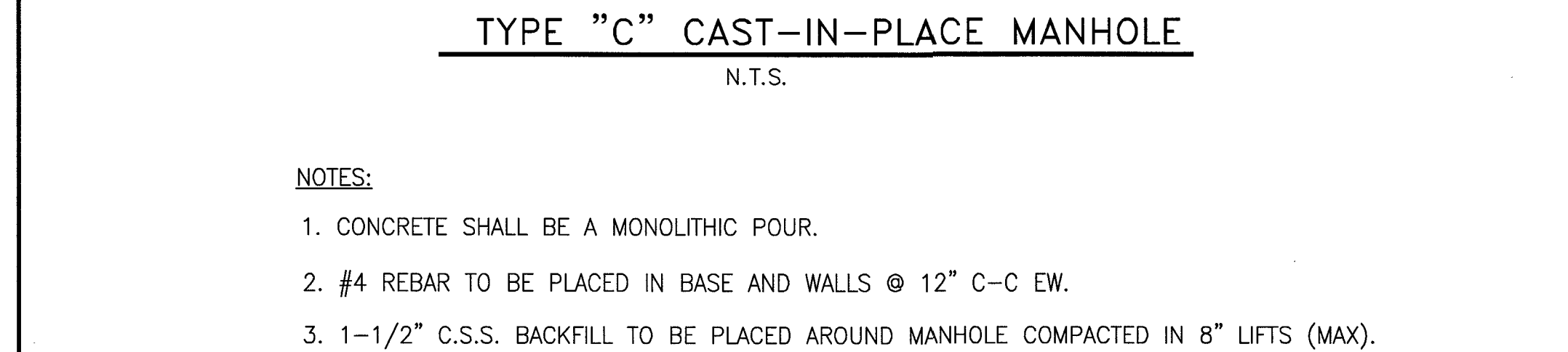
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

MISCELLANEOUS DETAILS

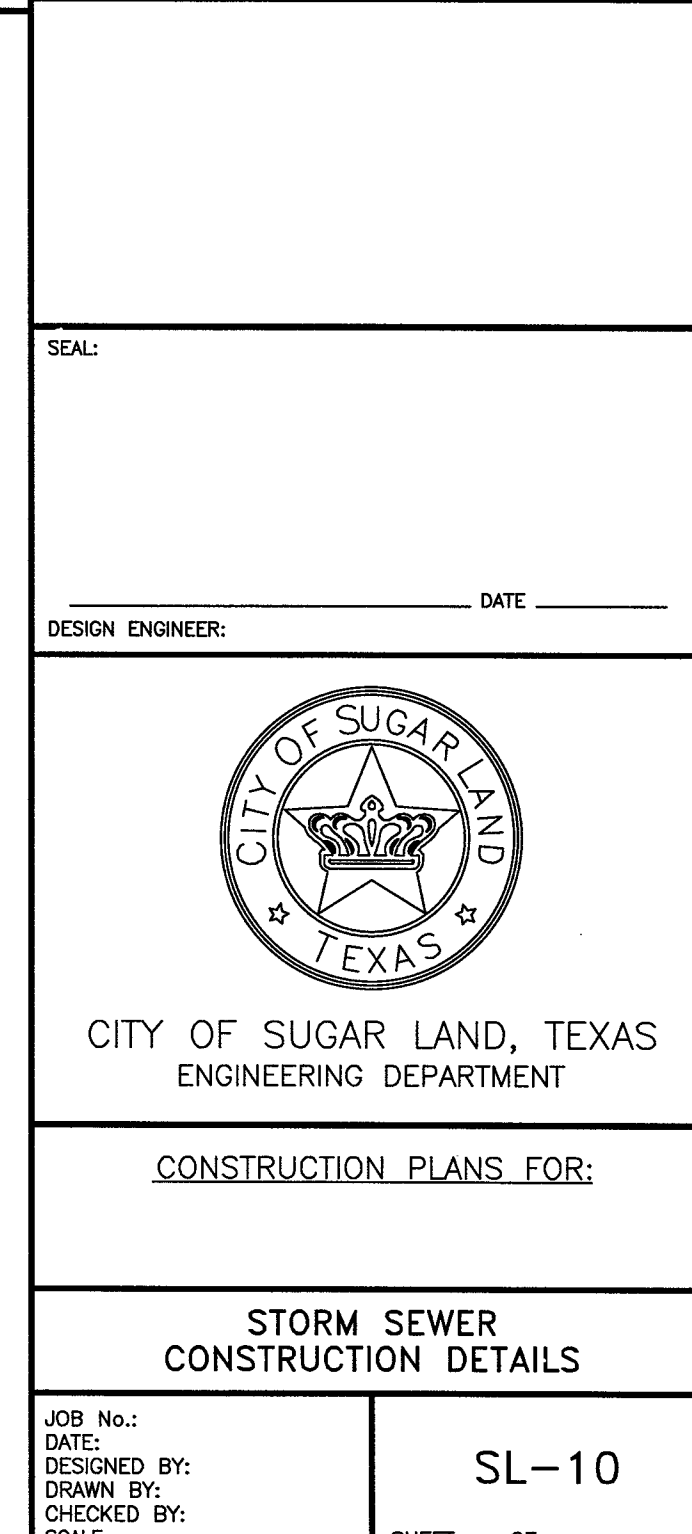
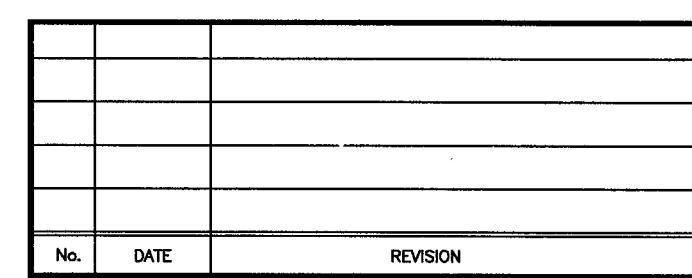
PROJECT NO. 14395

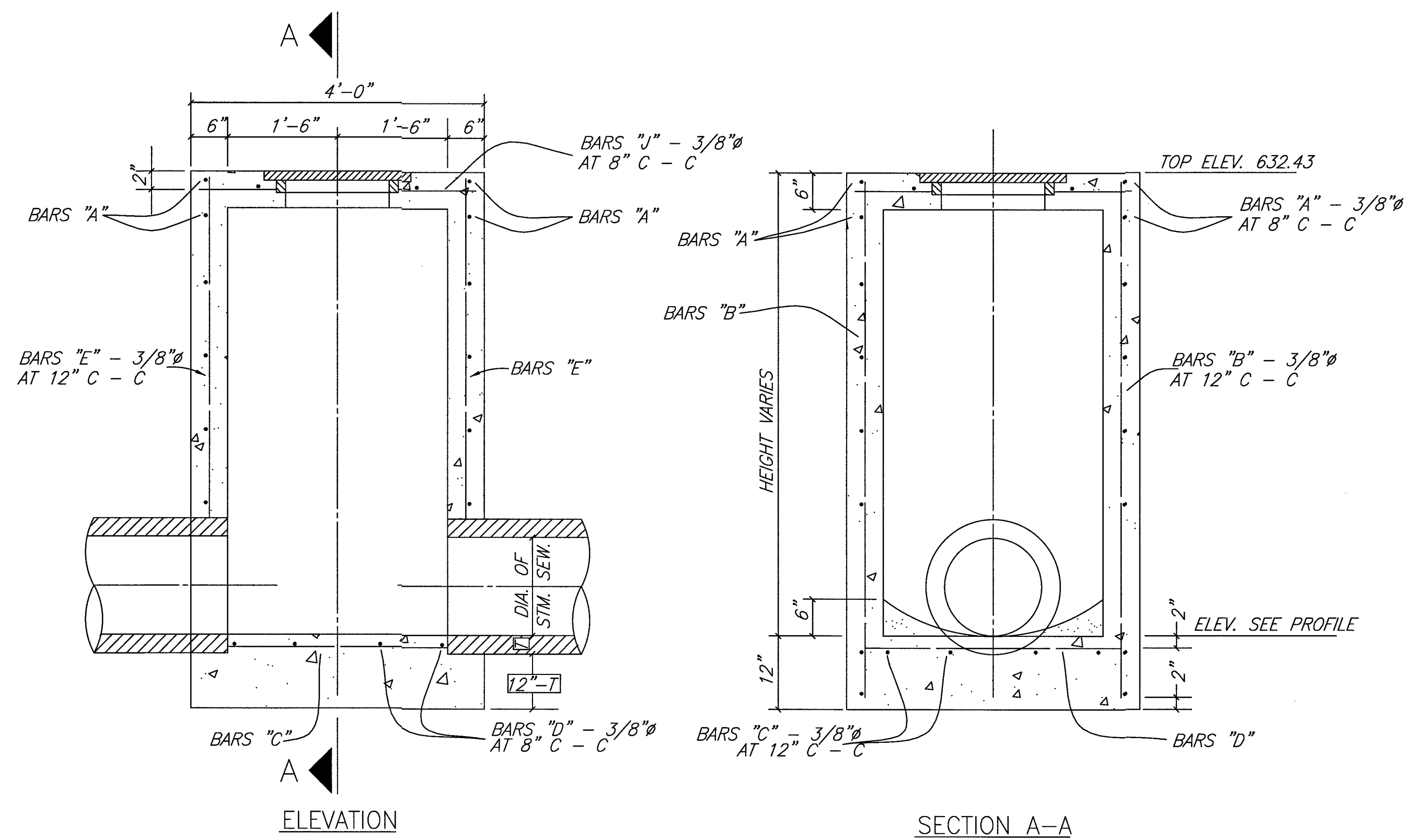


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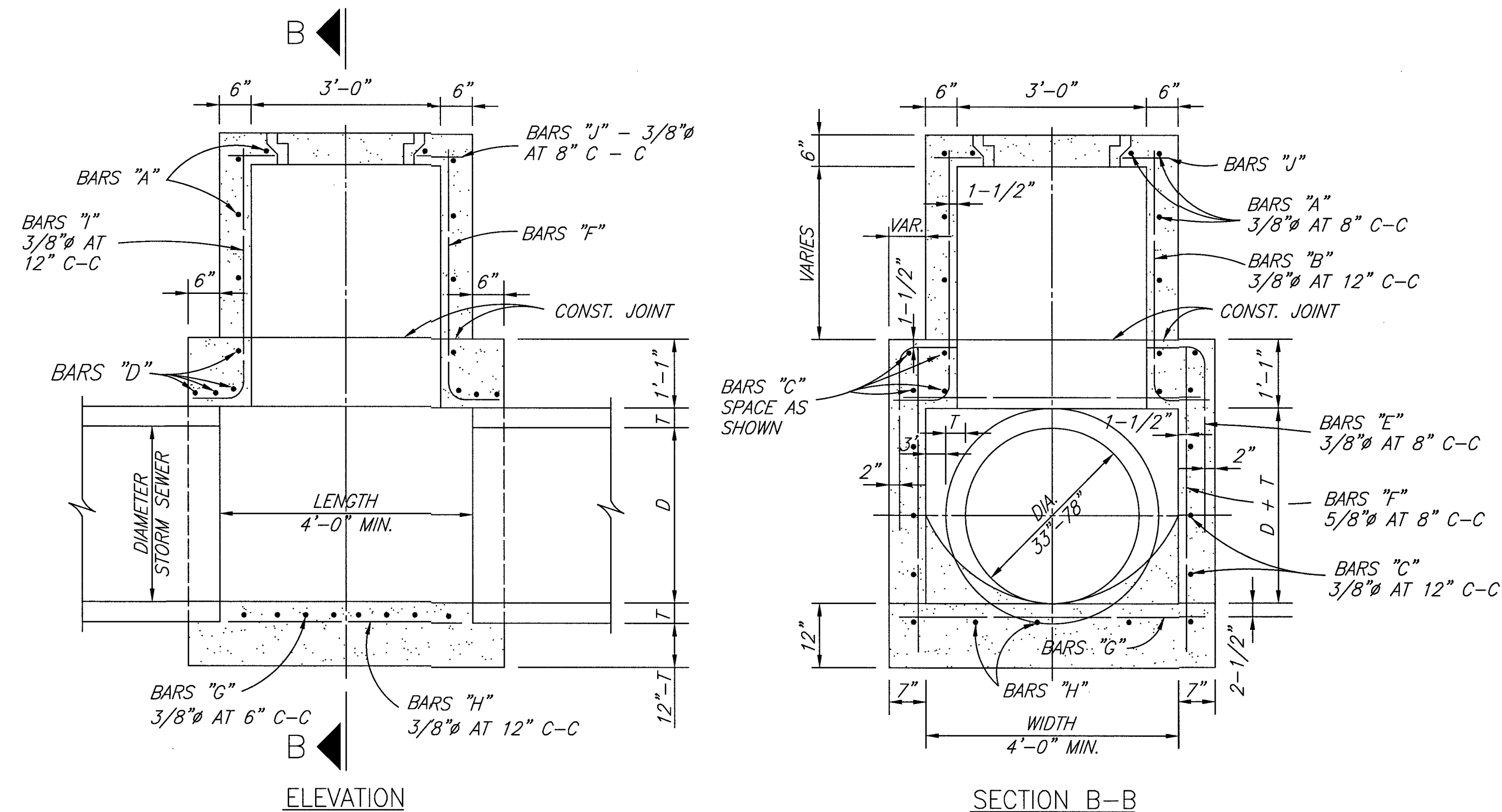
95 SHEET SET.DWG





STORM SEWER TYPE A MANHOLE

MAX. PIPE SIZE 30" - N.T.S.



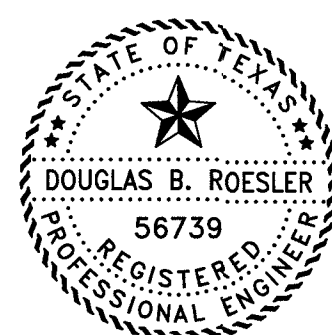
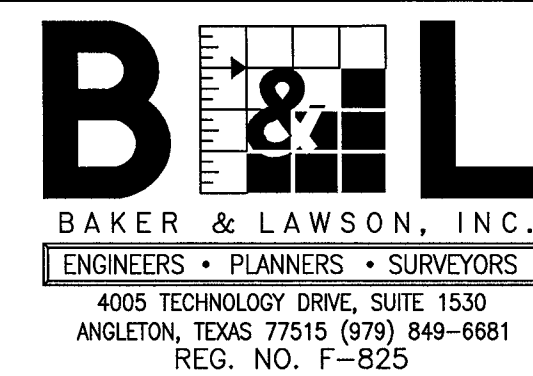
TYPE B STORM SEWER MANHOLE

MAX. PIPE SIZE 78" - N.T.S.

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVAL
REVISIONS			

DESIGNED	DR
DRAWN	BT
CHECKED	
DATE	



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this document was
authorized by
Douglas B. Roesler
P.F. 56739

Date. 04-18-22

OWNER:

**RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057**

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

JUNCTION BOX
MANHOLES
SL-11

PROJECT NO. 14395

SL-SS-05

SL-SS-05

- NOTE:**
1. INFLUENT AND EXFLUENT PIPING CONNECTIONS TO MANHOLE SHALL BE ALIGNED TO PREVENT REVERSE FLOW.
 2. INFLUENT AND EXFLUENT CONNECTIONS ARE LIMITED TO A MAXIMUM 90° INCLUDED ANGLE OF CONVERGENCE.
 3. MINIMUM 35° AND MAXIMUM 90° INCLUDED ANGLES MUST BE PROVIDED BETWEEN MULTIPLE INFLUENT CONNECTIONS.
 4. ANGLE OF DEFLECTION AT PIPING JOINTS AS PER MANUFACTURER'S RECOMMENDATIONS.

NOTES:

1. CONTRACTOR SHALL CONTACT CITY OF SUGAR LAND ENGINEERING DEPARTMENT AT (281) 275-2780 IF WELL SAND OR OTHER UNSTABLE SOIL CONDITIONS, HIGH WATER TABLE AND/OR UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED.
2. SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF SUGAR LAND DESIGN STANDARDS SHALL GOVERN.
3. SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED A MINIMUM OF FOUR FEET FROM TRACED CURB ON CURB AND GUTTER ROADWAYS AND THREE FEET FROM EDGE OF BACKLAP ROADWAY ON THOSE TRAILHEADS HAVING NO CURBS. MEASURED FROM OUTSIDE DIAMETER OF MANHOLE. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED BENEATH STREET PAVING EXCEPT WHERE SPECIFICALLY AUTHORIZED BY CITY ENGINEER AND SO DESIGNATED ON APPROVED CONSTRUCTION DRAWINGS.
4. ALL SUCH MANHOLE COVERS SHALL HAVE THE CITY OF SUGAR LAND EMBLEM AND THE WORDS "SUGAR LAND" AND "SANITARY SEWER" CAST IN RAISED RELIEF AS DEPICTED IN CITY OF SUGAR LAND STANDARD CONSTRUCTION DETAILS SHEETS. ALL SANITARY SEWER MANHOLES SHALL INCORPORATE INFLOW PROTECTORS.
5. MANHOLE RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. CONTRACTORS SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE FINISHED GRADE WITHIN RIGHTS-OF-WAY AND EASEMENTS AT EACH MANHOLE LOCATION AFTER FINAL GRADING. ADJUSTMENTS TO MANHOLE RIM ELEVATIONS SHALL BE ACCOMPLISHED BY THE USE OF THROAT RINGS ONLY (MAX. OF 24 INCHES PERMITTED). THE AREA ADJACENT TO SANITARY SEWER MANHOLE LOCATIONS SHALL BE GRADED AWAY FROM SUCH MANHOLES SO AS PREVENT ENTRY OF STORM WATER RUNOFF TO THE SANITARY SEWER SYSTEM.
6. DROP CONNECTIONS ARE REQUIRED WHEN INVERT ELEVATION OF SEWER LINE TO BE CONNECTED EXCEEDS 36 INCHES DISTANCE ABOVE INVERT ELEVATION OF MANHOLE BASE. ALL DROP CONNECTIONS SHALL BE CONSTRUCTED OF SAME MATERIALS AS SEWER AND SHALL BE CONSTRUCTED EXTERIOR TO MANHOLE. PIPE CONNECTIONS TO MANHOLES SHALL BE SO CONSTRUCTED AS TO BE WATER TIGHT AND TO ALIGN UPPER INSIDE PIPE WALL ELEVATIONS OF ALL PIPING CONNECTED TO BASE OF MANHOLE UNIFORMLY, REGARDLESS OF PIPE DIAMETERS. DROP ASSEMBLIES SHALL BE BEDDED IN CEMENT STABILIZED SAND. CEMENT STABILIZED SAND SHALL EXTEND A MINIMUM OF SIX INCHES PAST PIPING LATERALLY FROM BASE OF MANHOLE UPWARD TO A POINT SIX INCHES (MINIMUM) ABOVE THE HORIZONTAL SEWER PIPING WHEN CONNECTED TO THE MANHOLE ABOVE THE VERTICAL DROP.
7. CONNECTIONS TO EXISTING AND/OR NEW SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED OF REINFORCED CONCRETE NOT HAVING CORROSION-RESISTANT COATING.
8. BEDDING AND BACKFILL OF SANITARY SEWER PIPING AND MANHOLES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH CITY OF SUGAR LAND DESIGN STANDARDS. A 1.5-SACK MIX IS REQUIRED FOR ALL CEMENT STABILIZED SAND BEDDING AND SUCH BEDDING SHALL BE INSTALLED IN LIFTS OF EIGHT INCHES MAXIMUM.
9. SOLVENT WELDED JOINTS ARE NOT AN ACCEPTABLE JOINING METHOD FOR SANITARY SEWERS CONSTRUCTED OF PVC PIPING MATERIALS AND LOCATED WITHIN RIGHTS-OF-WAY OR EASEMENTS. RUBBER GASKETED BELL AND SPIGOT SANITARY SEWER JOINTS ARE MANDATORY. BELL (FEMALE) ENDS OF PIPE SHALL BE INSTALLED ON UPSTREAM SIDE WITH SPIGOT (MALE) ENDS ORIENTED DOWNSTREAM.
10. SANITARY SEWER SERVICE LEADS SHALL BE EXTENDED TO RIGHTS-OF-WAY AND/OR EASEMENT LINES AS APPLICABLE AND CAPPED/PLUGGED FOR FUTURE CONNECTIONS. SERVICE LEADS ARE TO BE INSTALLED SO AS TO PASS UNDER POTABLE WATER PIPING AT CROSSINGS WHERE POSSIBLE.
11. EACH SANITARY SEWER SERVICE LEAD STUB, PLUGGED WYE BRANCH OUTLET AND STACK SHALL BE MARKED WITH A PRESSURE TREATED 4 X 4 TIMBER AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB OR WYE AND AT AN ELEVATION TWO FEET BELOW THE CAPPED TERMINATION POINT OF THE STACK AND EXTENDING TWO FEET ABOVE FINISHED GRADE. EACH TIMBER MARKER SHALL BE PAINTED RED AND LABELED "SANITARY SEWER STUB", "SANITARY SEWER WYE" OR "SANITARY SEWER STACK" AS APPROPRIATE WITH STUB, WYE BRANCH OUTLET OR STACK SIZE NOTED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SILT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS RECEIVING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS-OF-WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.
13. ALL SANITARY SEWER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE WITH CITY INFRASTRUCTURE STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY NOTIFY THE CITY OF ALL CONSTRUCTION ACTIVITIES AND TO CONFORM TO CITY OF SUGAR LAND PUBLIC WORKS DEPARTMENT INSPECTION POLICY.
14. C.S.S. 1" ABOVE PIPE AND 6" BELOW PIPE MINIMUM.
15. SEE GENERAL NOTES AND C.S.S. NOTES.

SPECIFICATIONS:

- CONCRETE: CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. RATES FOR H-20 LOADING.
- REINFORCEMENT: STRUCTURAL REINFORCEMENT CONFORMING TO ASTM-C-478.
- C.I. CASTINGS: CAST IRON FRAMES AND LIDS ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-7, CLASS 35.

NOTES

1. LIFTING INSERTS AS REQUIRED.
2. ALL JOINTS SHALL BE SEALED WITH APPROVED RUBBER GASKET
3. STRUCTURE TO BE PLACED ON 12" STABILIZED EASE.
4. C.S.S. SHALL BE BROUGHT TO WITHIN 2-FT OF TOP OF MANHOLE.
5. PRE-CAST MANHOLE SHALL BE IN COMPLIANCE APPROVED PRODUCT LIST.
6. THANE COAT SHALL BE IN COMPLIANCE WITH APPROVED PRODUCT LIST.
7. INVERTS SHALL COMPLY WITH C.O.S.L., DESIGN MANUAL SPECIFICATIONS.
8. INFLOW PROTECTORS REQUIRED ON ALL SANITARY MANHOLES.
9. REFER TO SANITARY MANHOLE LIDS, C.S.S. NOTES, MODIFIED BEDDING DETAILS AND NOTES.

PRECAST SANITARY MANHOLE

N.T.S.

SL-SS-03

TRENCH
SIDE VIEW

N.T.S.

TRENCH
END VIEW

NOTES:

- A.) NO STACKS ON MAINS OVER 16' DEEP
OR IN WET SAND CONDIITIONS.
- B.) ALL STACK CONNECTIONS SHALL BE
IN-LINE FITTINGS.

SANITARY SEWER
SERVICE CONNECTION

N.T.S.

SL-SS-06

SL-SS-07

No.	DATE	REVISION

SEAL:

DESIGN ENGINEER:

CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

SANITARY SEWER CONSTRUCTION DETAILS

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

SL-14

RECORD DRAWING

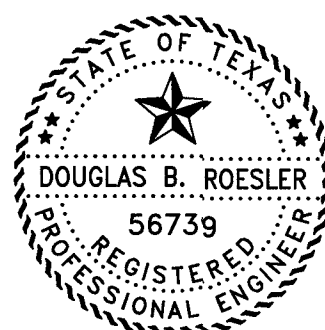
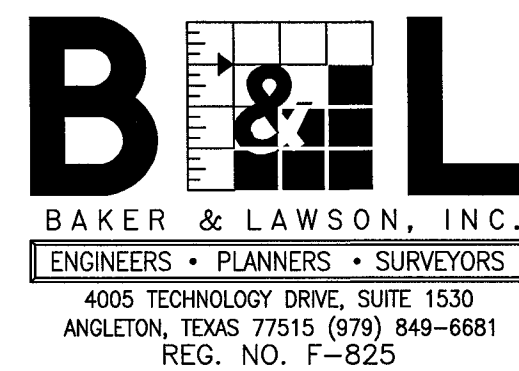
NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR


DRAWN BT

CHECKED

DATE _____



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this document was
authorized by

Douglas B. Roesler
P.E. 56739

Date: 04-18-27

OWNER:

**RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057**

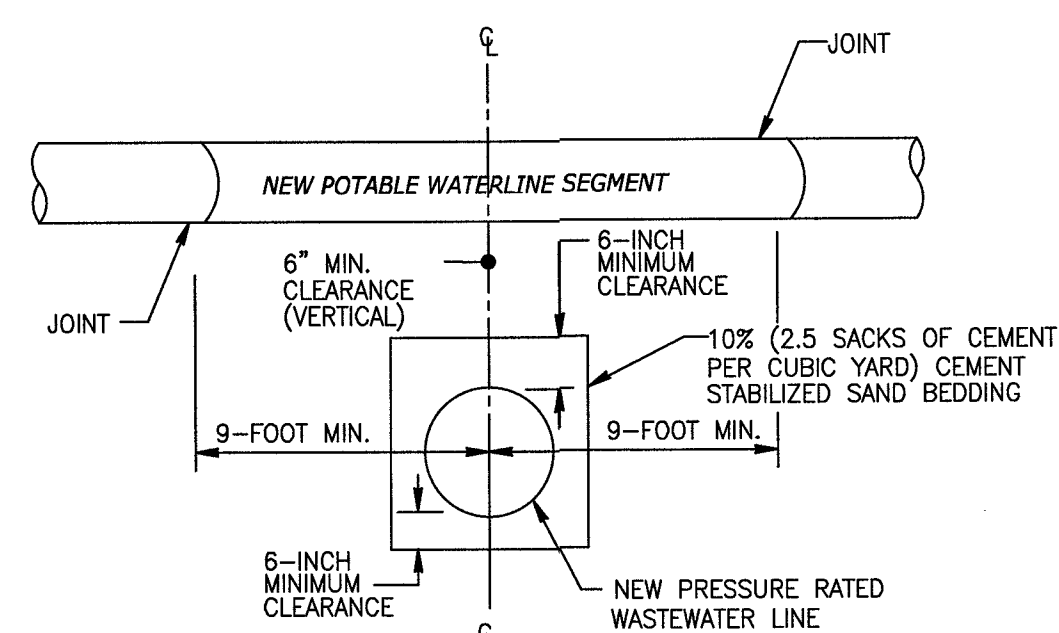
PLAN: _____
 PROFILE: _____
 HORIZONTAL: _____
 VERTICAL: _____

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

SANITARY SEWER
CONSTRUCTION DETAILS
SL-14

PROJECT NO. 14395

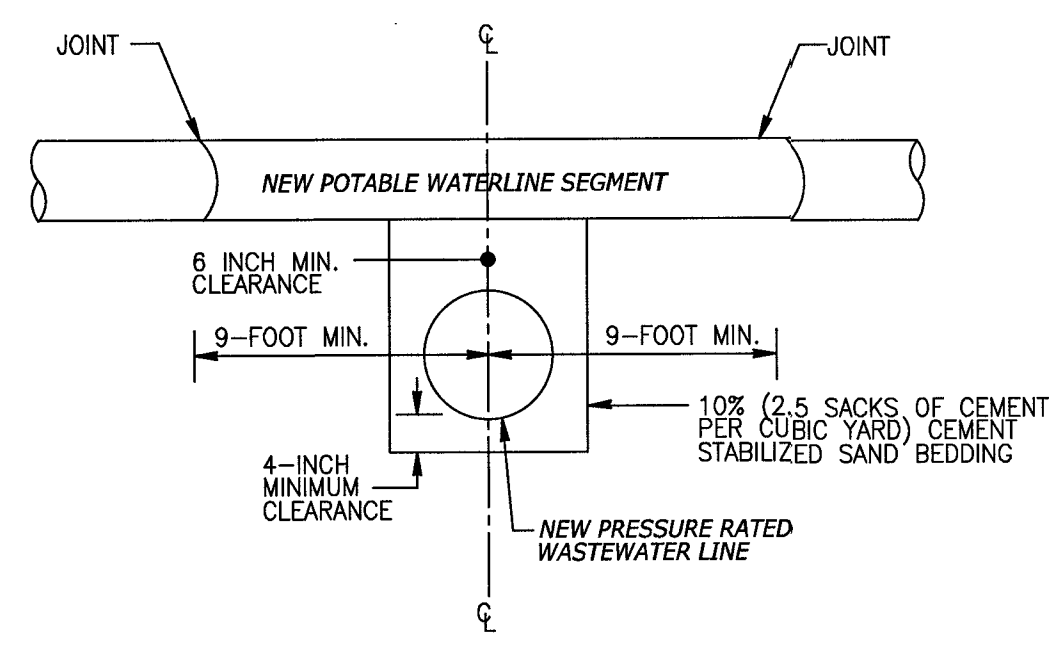
I
NEW POTABLE WATERLINE CROSSING NEW PRESSURE RATED WASTEWATER LINE WITH SEGMENT LENGTHS OF EIGHTEEN (18) FEET OR GREATER, HAVING 6 INCHES OF VERTICAL CLEARANCE AND 4 FEET OF HORIZONTAL CLEARANCE



- WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN JOINTS OF THE WASTEWATER LINE.
- MINIMUM WASTEWATER PIPE STIFFNESS OF 115 PSI AT 5% DEFLECTION.
- EMBED WASTEWATER LINE IN CEMENT STABILIZED SAND TO AT LEAST 12" INCHES BEYOND EACH JOINT OF CROSSED SECTION OF PIPE.

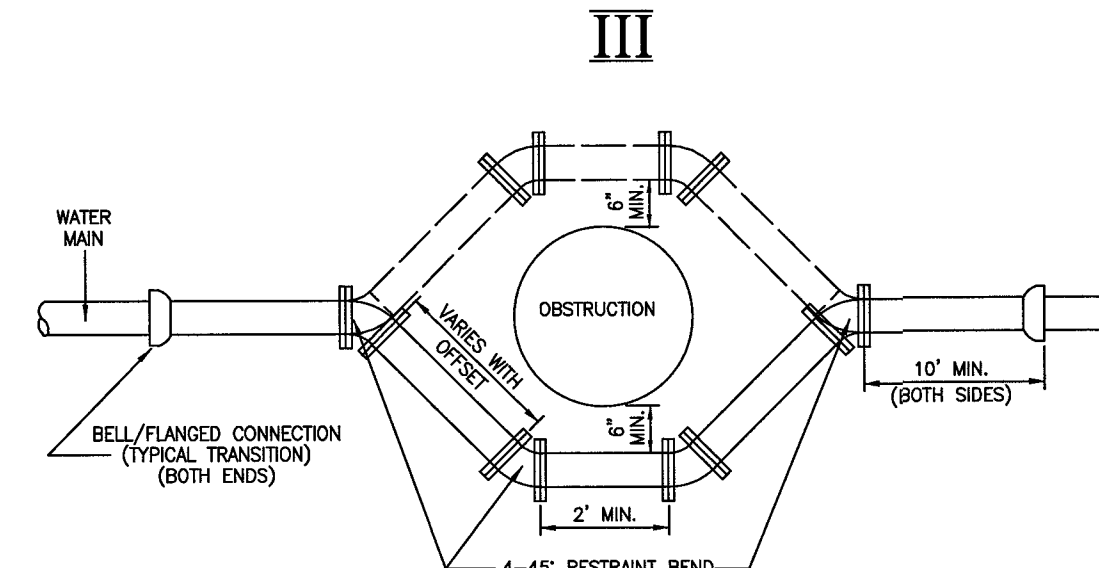
SL-WA-09

II
NEW POTABLE WATERLINE CROSSING NEW PRESSURE RATED WASTEWATER LINE



- WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN JOINTS OF THE WASTEWATER LINE.
- MINIMUM WASTEWATER PIPE STIFFNESS OF 115 PSI AT 5% DEFLECTION.
- EMBED WASTEWATER LINE IN CEMENT STABILIZED SAND TO AT LEAST 12" INCHES BEYOND EACH JOINT OF CROSSED SECTION OF PIPE.

SL-WA-10



FOR A LINE TO PASS OVER AN OBSTRUCTION RATHER THAN UNDER, IT MUST HAVE ADEQUATE COVER AND BE APPROVED BY THE ENGINEERING DEPARTMENT.

MIN. PIPE WALL THICKNESS	
4"	0.250"
6"	0.280"
8"	0.322"
12"	0.375"
AND LARGER	

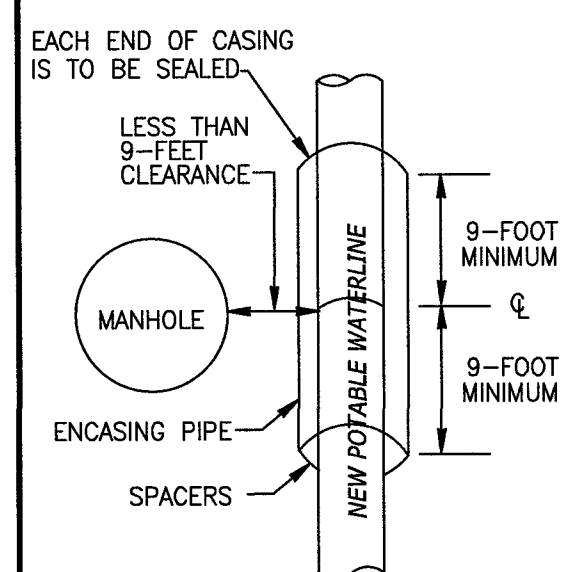
NOTES:

1. PIPE MATERIAL SHALL BE AWWA C900 PVC, DR-14, 200 PSI WITH INTEGRAL PVC RESTRAINED JOINTS.
2. OFFSET ASSEMBLY MUST PASS OVER THE OBSTRUCTION AS LONG AS THE MINIMUM CLEARANCE IS MAINTAINED. SPECIFIC APPROVAL FROM THE UTILITIES DEPARTMENT MUST BE GRANTED FOR THE OFFSET TO PASS UNDER THE OBSTRUCTION.
3. MATERIAL AND COATINGS SHALL BE IN ACCORDANCE WITH WATER MAIN STANDARD SPECIFICATIONS.
4. RESTRAIN EXISTING PIPING BEYOND OFFSET SECTION AS REQUIRED TO PREVENT MOVEMENT.
5. ALL PVC PRODUCTS MUST BE LISTED ON CITY OF SUGAR LAND'S APPROVED PRODUCTS LIST.

PVC WATER PIPE
OFFSET ASSEMBLY

SL-WA-11

DETAIL OF WATER LINE CROSSING WASTEWATER FACILITIES WHERE SEPARATION IS LESS THAN 9' (NINE FEET)

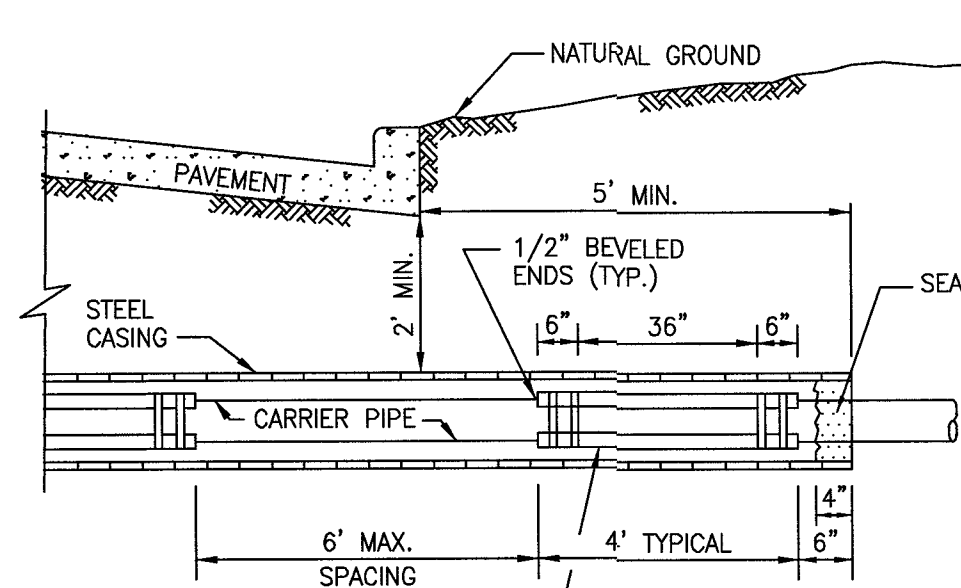


ENCASING PIPE

- 150 PSI PRESSURE CLASS PIPE MINIMUM 18 FEET LONG DIAMETER = 2 X WATERLINE DIAMETER
- SPACE AROUND CARRIER PIPE SHALL BE SUPPORTED AT FIVE (5) FOOT (OR LESS INTERVALS WITH SPACERS)
- CENTERED ON CROSSING
- BOTH ENDS SEALED WITH CEMENT GROUT OR A MANUFACTURED WATER TIGHT SEAL.

MANHOLE CLEARANCE

SL-WA-12

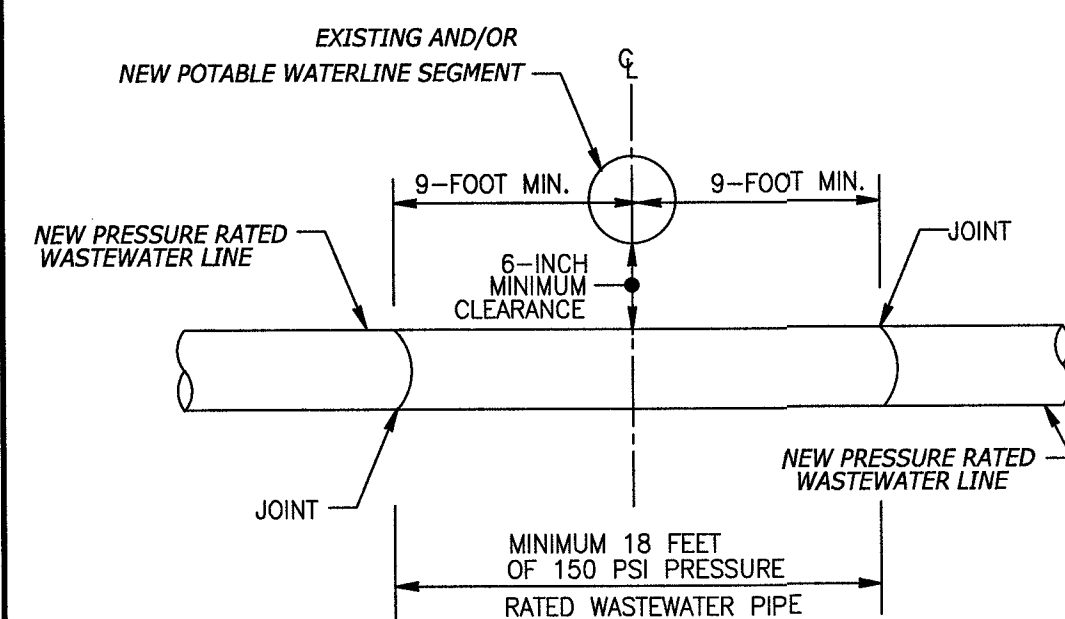


ELEVATION

1. CASING SIZE AND THICKNESS SHALL CONFORM TO THE MINIMUM REQUIREMENTS AS SHOWN ON CASING SCHEDULE, OTHER PERMITS AS REQUIRED.
2. MAINTAIN 3" MINIMUM CLEARANCE BETWEEN THE MAXIMUM OUTSIDE DIAMETER OF CARRIER PIPE AND CASING AT ALL LOCATIONS.
3. DIMENSIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL INSTALL ADEQUATELY SIZED CASING TO ACCOMMODATE THE CARRIER PIPE.

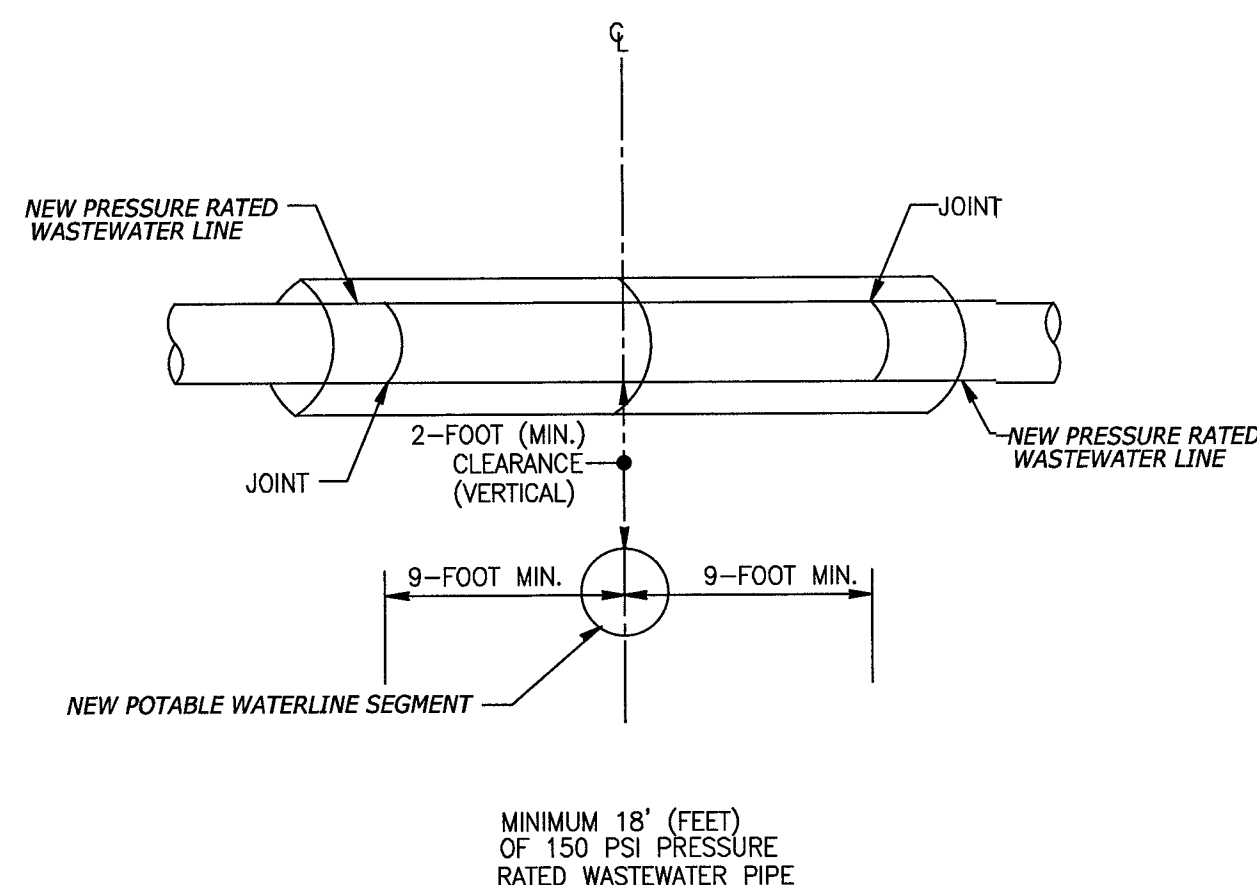
SL-WA-13

ALTERNATIVE A:
PRESSURE RATED WASTEWATER PIPE



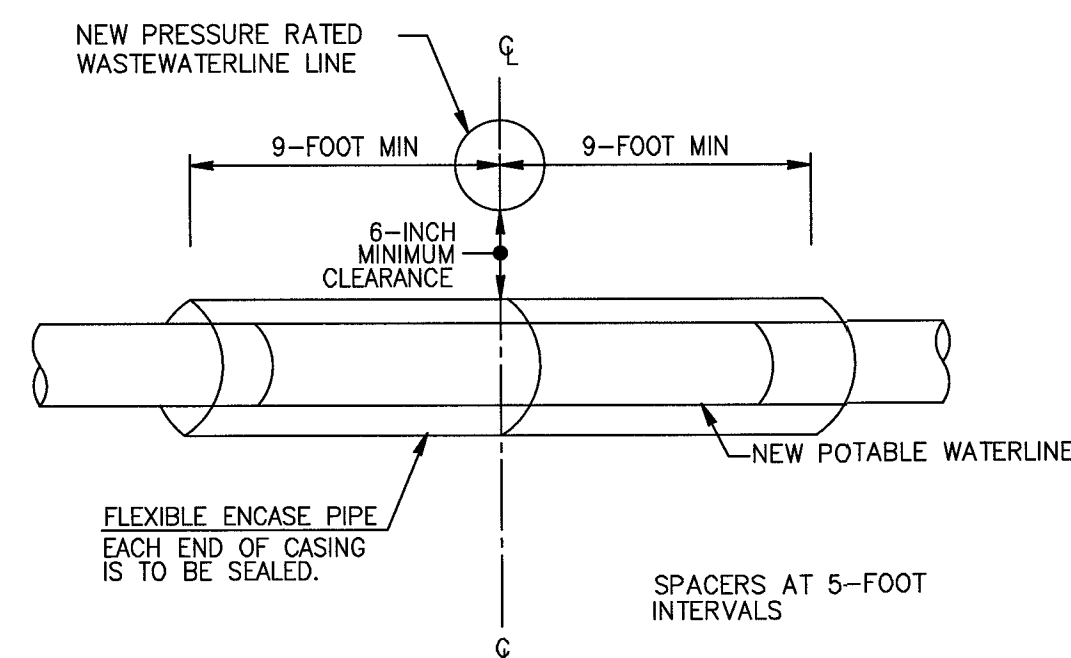
SL-WA-14

ALTERNATIVE B:
EXISTING POTABLE WATERLINE CROSSING EXISTING PRESSURE RATED WASTEWATER LINE



SL-WA-15

ALTERNATIVE C:
ENCASE NEW POTABLE WATERLINE UNDER A NEW PRESSURE RATED WASTEWATER LINE

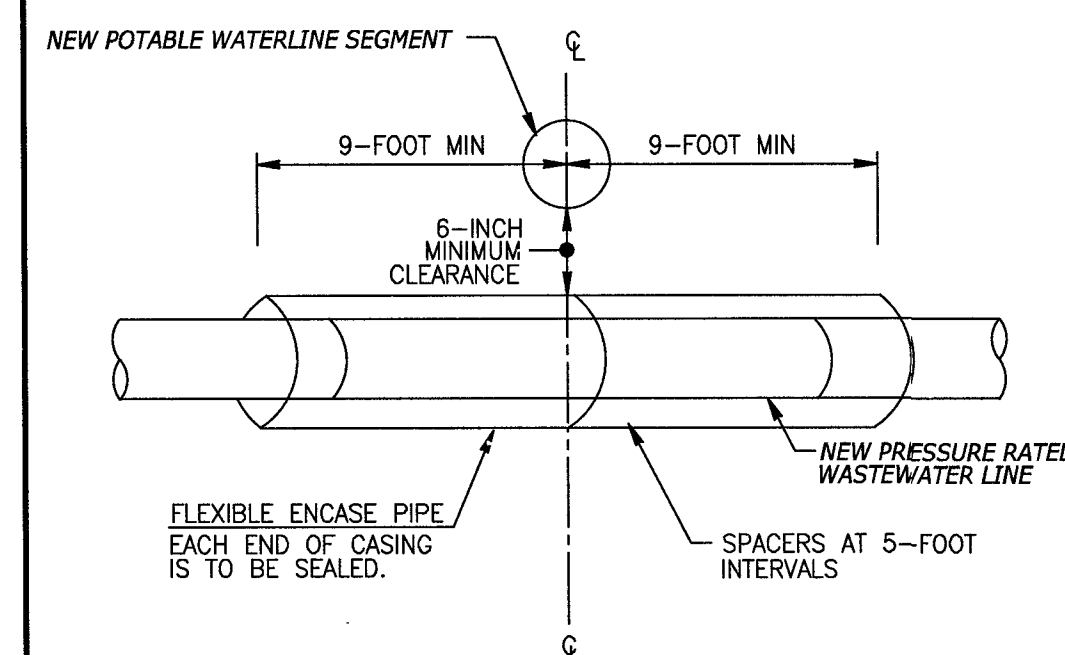


- SAME ENCASMENT CRITERIA AS "ALTERNATIVE B" OR
- NEW WATERLINE (WITHOUT CASING) TO BE CONSTRUCTED OF PVC C-900 (DR-15), DUCTILE IRON WITH MECHANICAL JOINT OR STEEL PIPE WITH WELDED JOINTS.
- BOTH WATERLINE AND WASTEWATER LINE MUST PASS A PRESSURE AND LEAKAGE TEST AS SPECIFIED IN AWWA C600 STANDARDS.

SL-WA-16

IV
ENCASED WASTEWATER LINE

NEW POTABLE WATERLINE CROSSING NEW PRESSURE RATED WASTEWATER LINE WITH SEGMENT LENGTHS OF 18 FEET OR GREATER, HAVING 6 INCHES OF VERTICAL CLEARANCE AND 4 FEET OF HORIZONTAL CLEARANCE



- MINIMUM CASING PIPE STIFFNESS OF 115 PSI AT 5% DEFLECTION.
- MINIMUM CASING PIPE DIAMETER = 2 X WASTEWATER LINE DIAMETER.
- THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE (5) FOOT (OR LESS) INTERVALS WITH SPACERS
- EACH END CASING IS TO BE SEALED WITH WATER TIGHT NO-SHRINK GROUT OR MANUFACTURED WATER TIGHT SEAL.

SL-WA-17

SL-WA-18

No.	DATE	REVISION

DESIGN ENGINEER: _____ DATE: _____

SEAL: _____

CITY OF SUGAR LAND, TEXAS

ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

WATER LINE CROSSING DETAILS

JOB No.: _____

DATE: _____

DESIGNED BY: _____

DRAWN BY: _____

CHECKED BY: _____

SCALE: _____

SL-16

SHEET OF

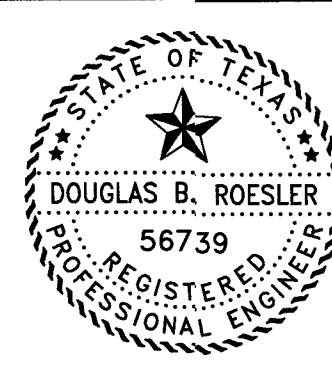
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NO.	DATE	DESCRIPTION	APPROVED

REVISIONS

DESIGNED DR
DRAWN BT
CHECKED
DATE

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



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Date: 04-15-22

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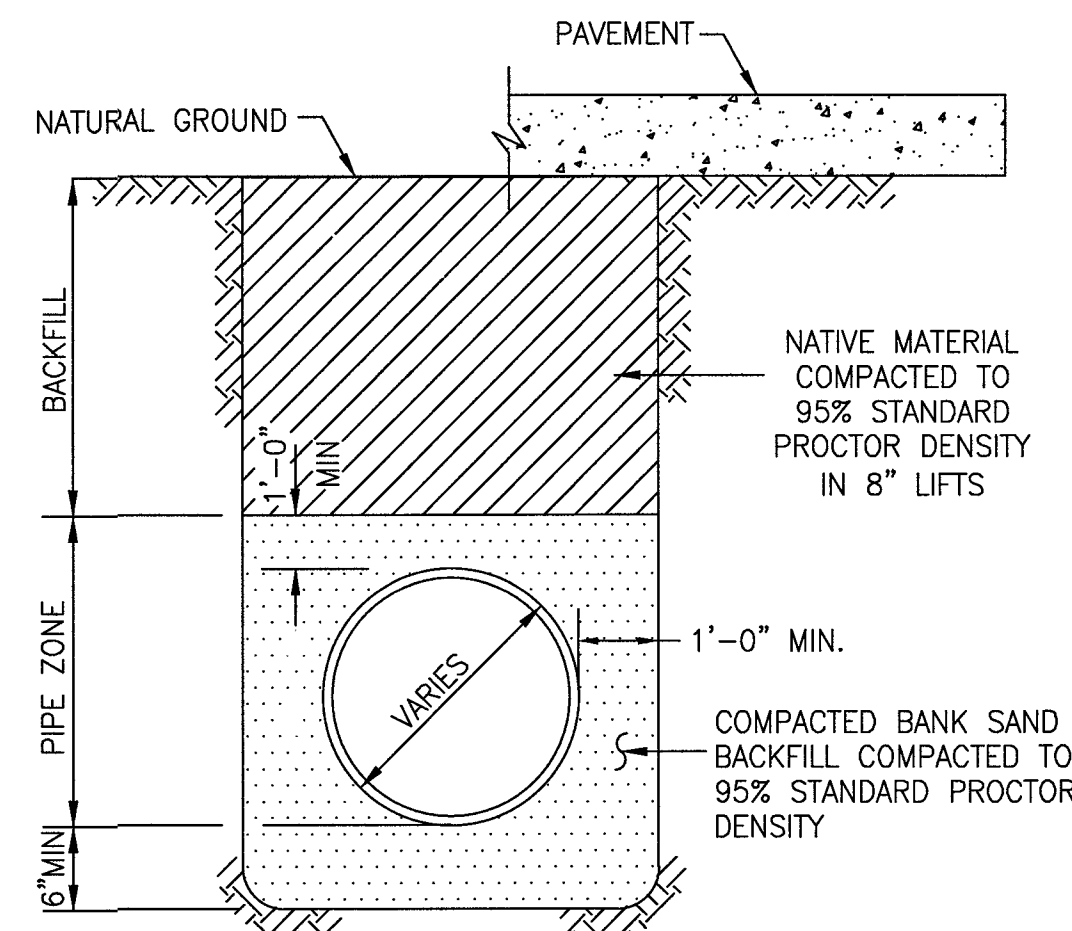
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

WATER LINE
CROSSING DETAILS
SL-16

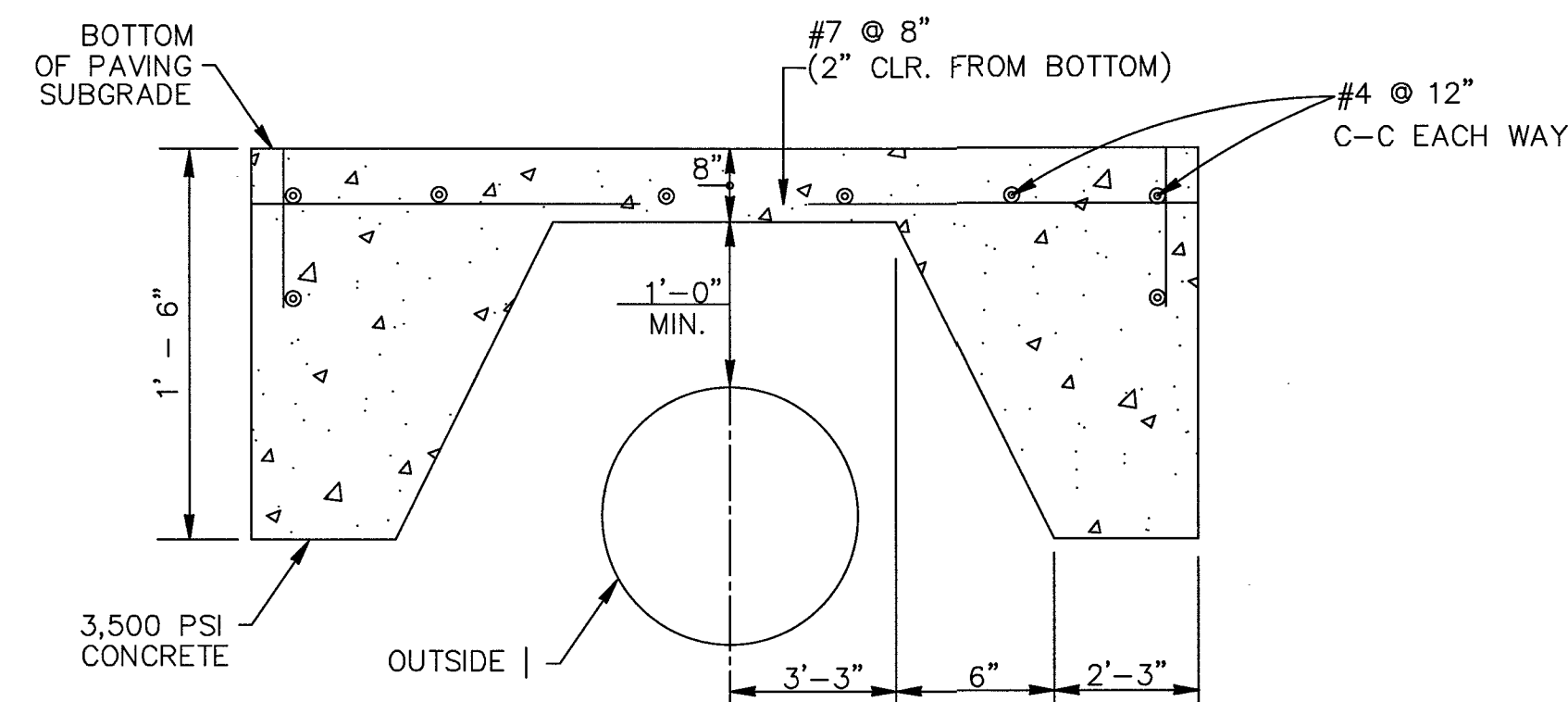
PROJECT NO. 14395



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

SANITARY FORCE MAIN & WATER LINE
BEDDING AND BACKFILL

SL-BB-01



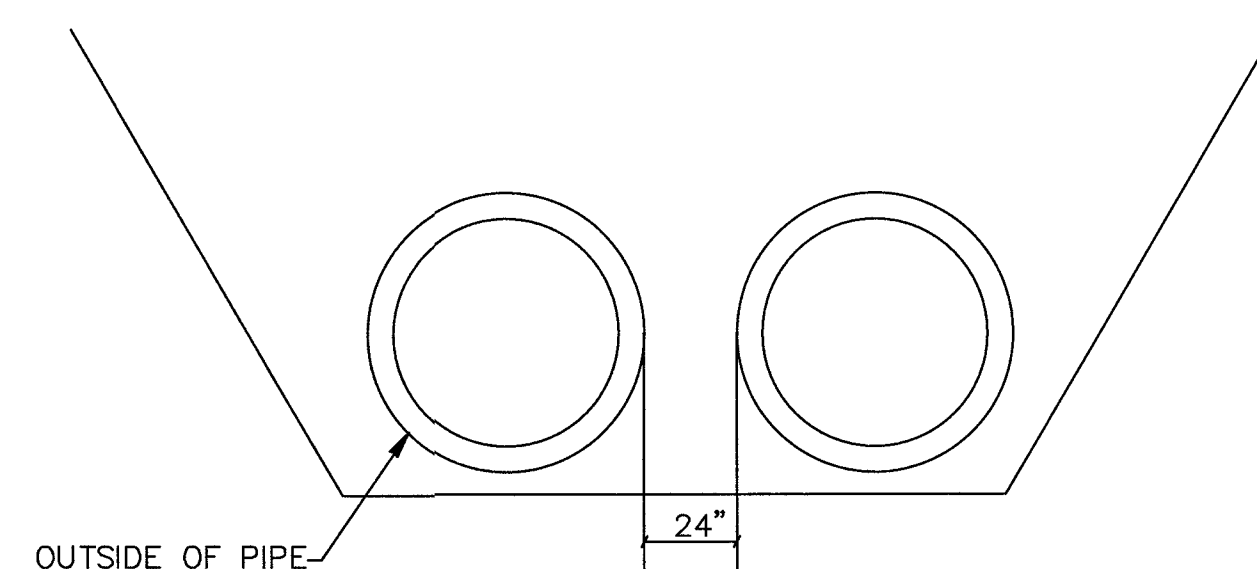
PROTECTIVE SLAB DETAIL
ZERO LOAD TRANSFER CONCRETE SLAB

SL-BB-04

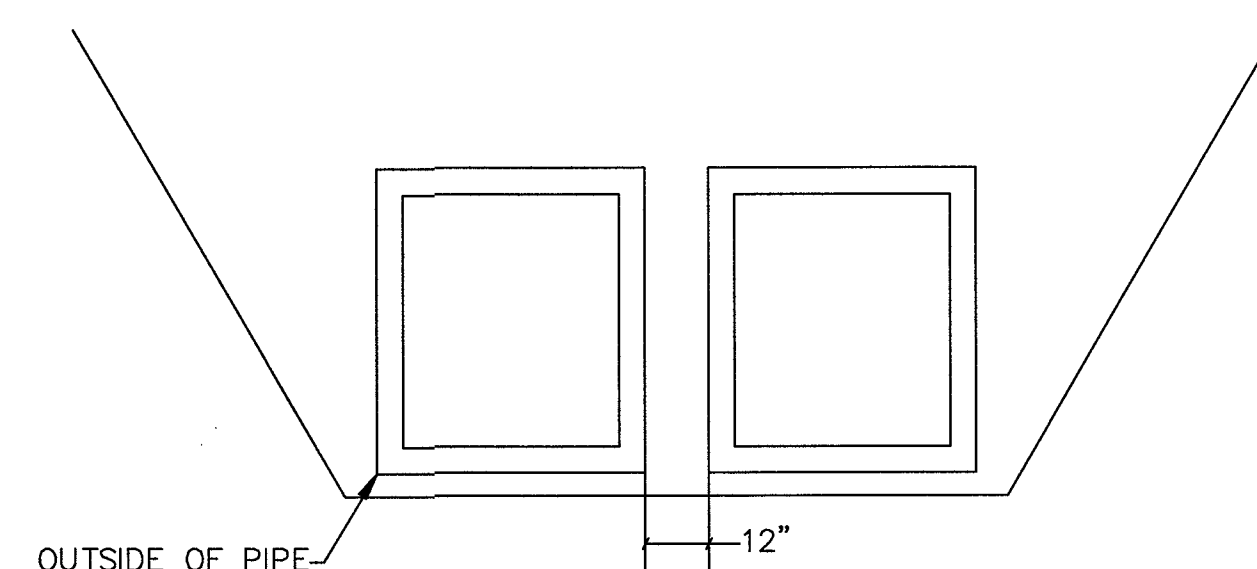
CONSTRUCTION NOTES

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

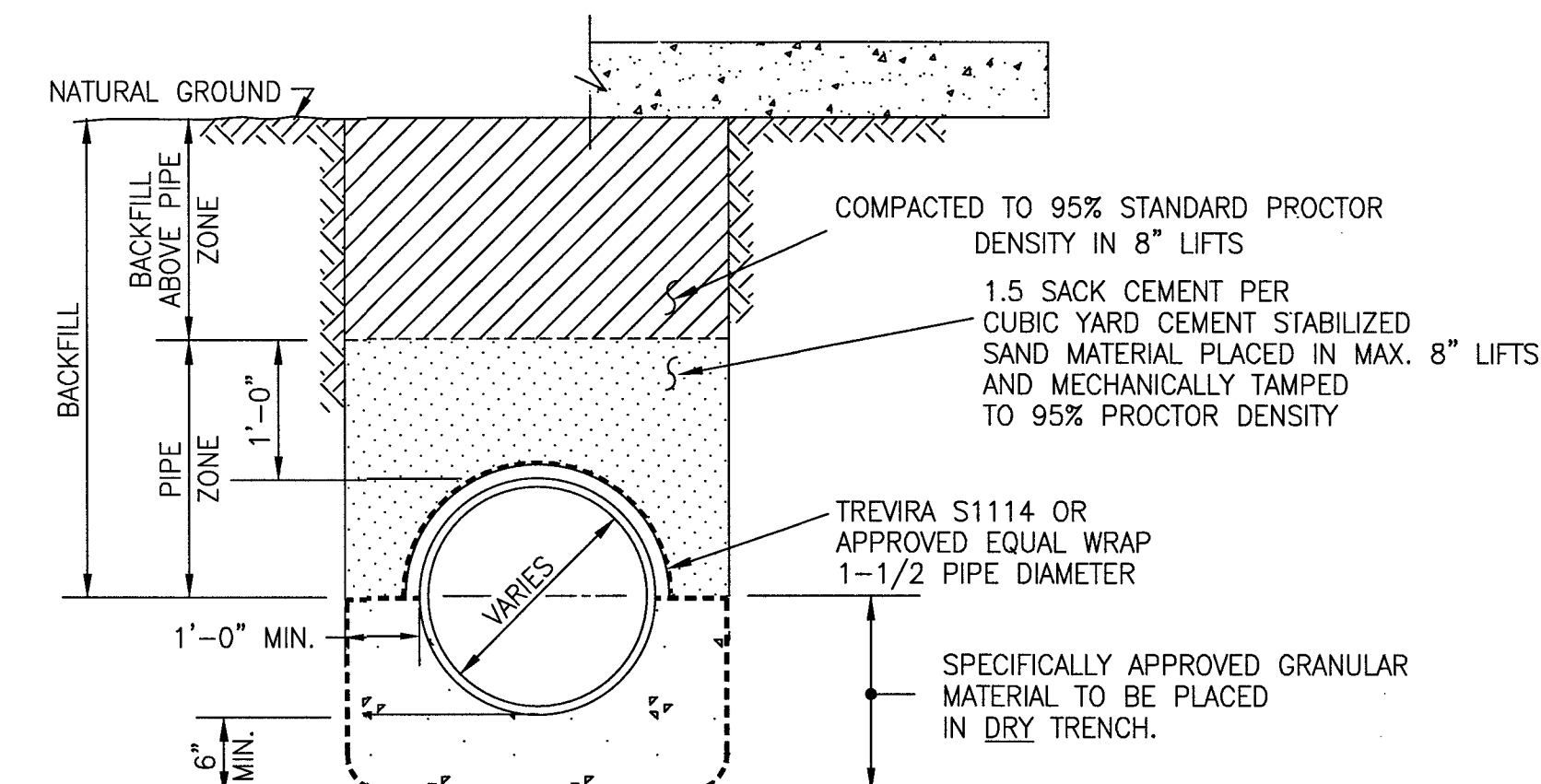
SL-BB-05



PIPE SEPARATION



RCB SEPARATION



MODIFIED "A"
N.T.S.


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

SANITARY SEWER
BEDDING AND BACKFILL

SL-BB-03

REFER TO:

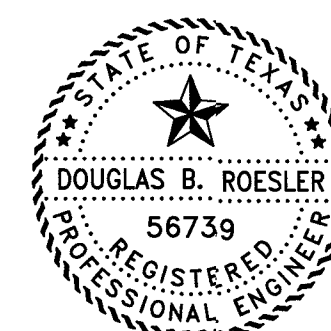
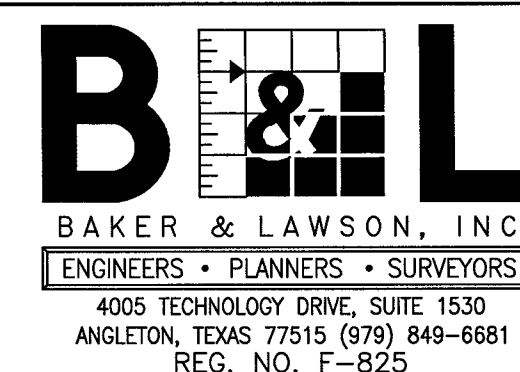
1. GENERAL NOTES
2. C.S.S. NOTES

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

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DATE



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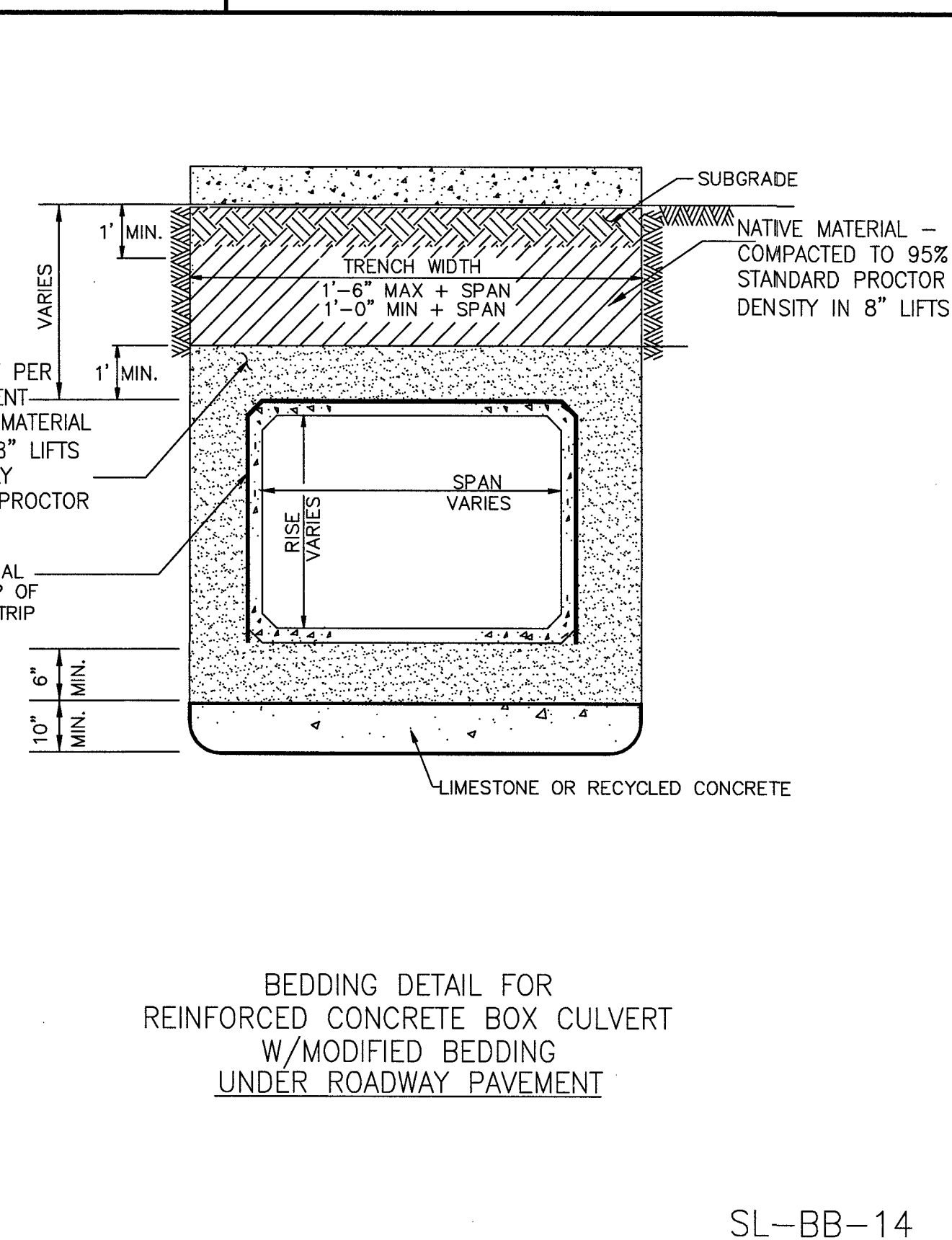
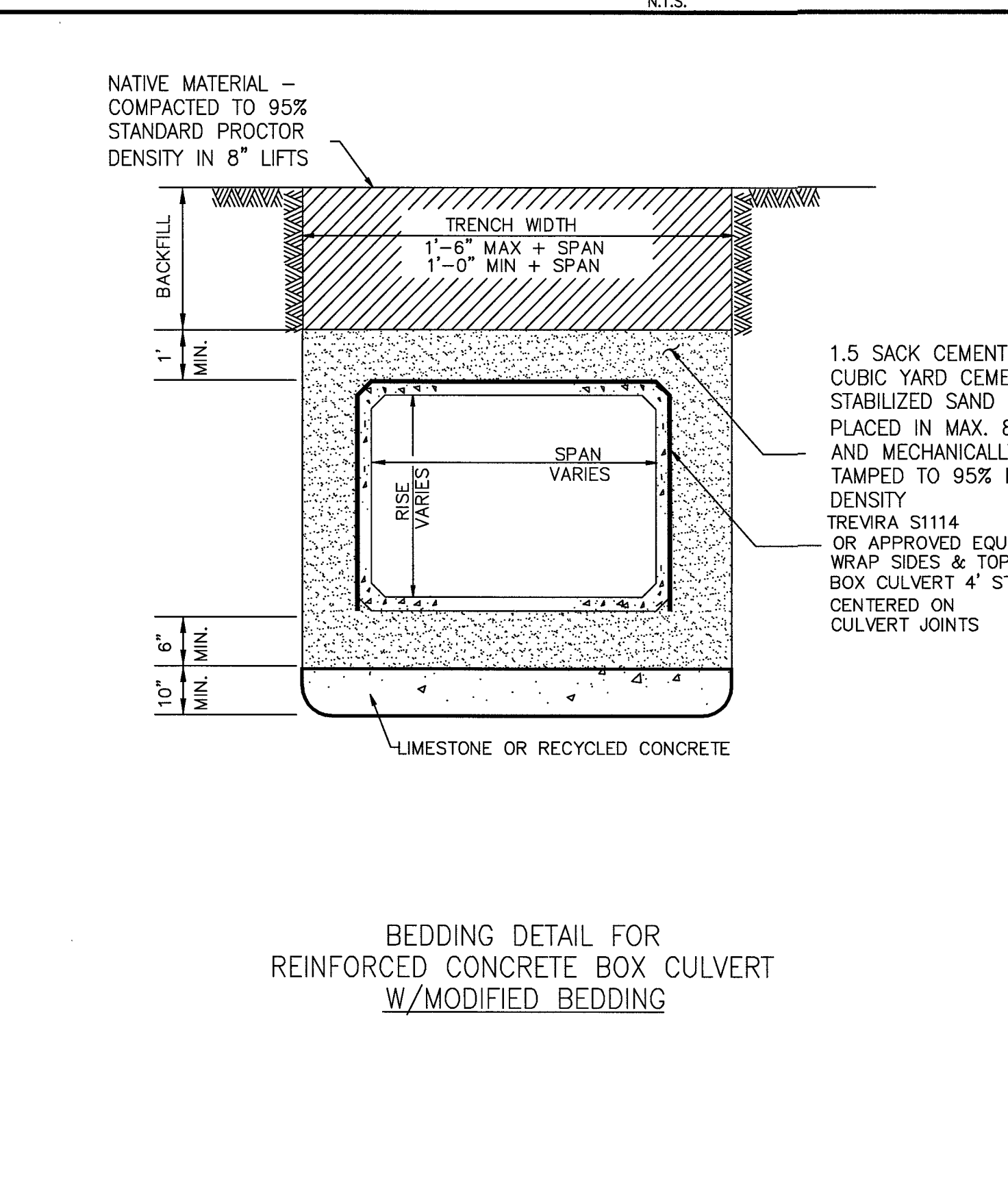
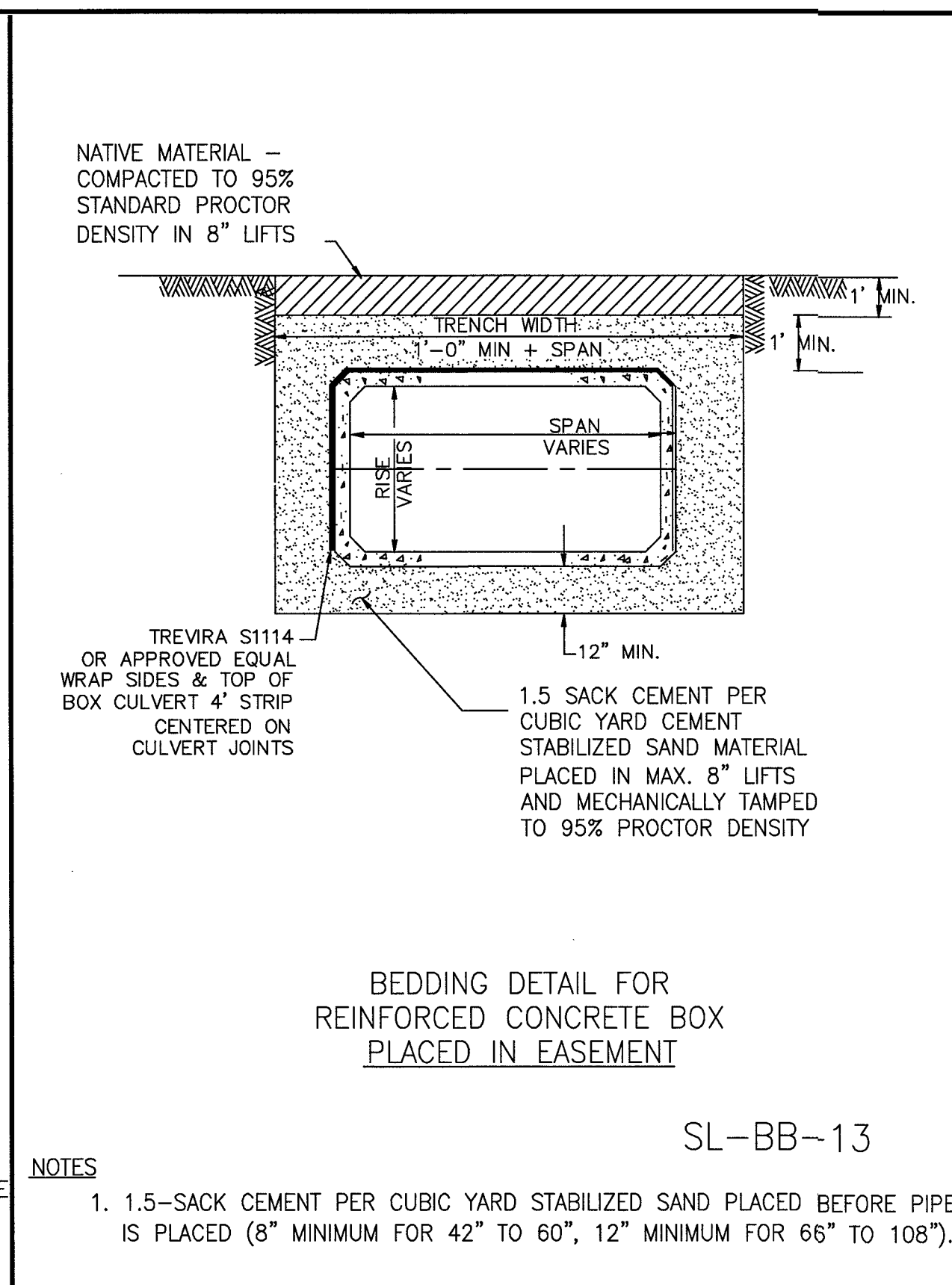
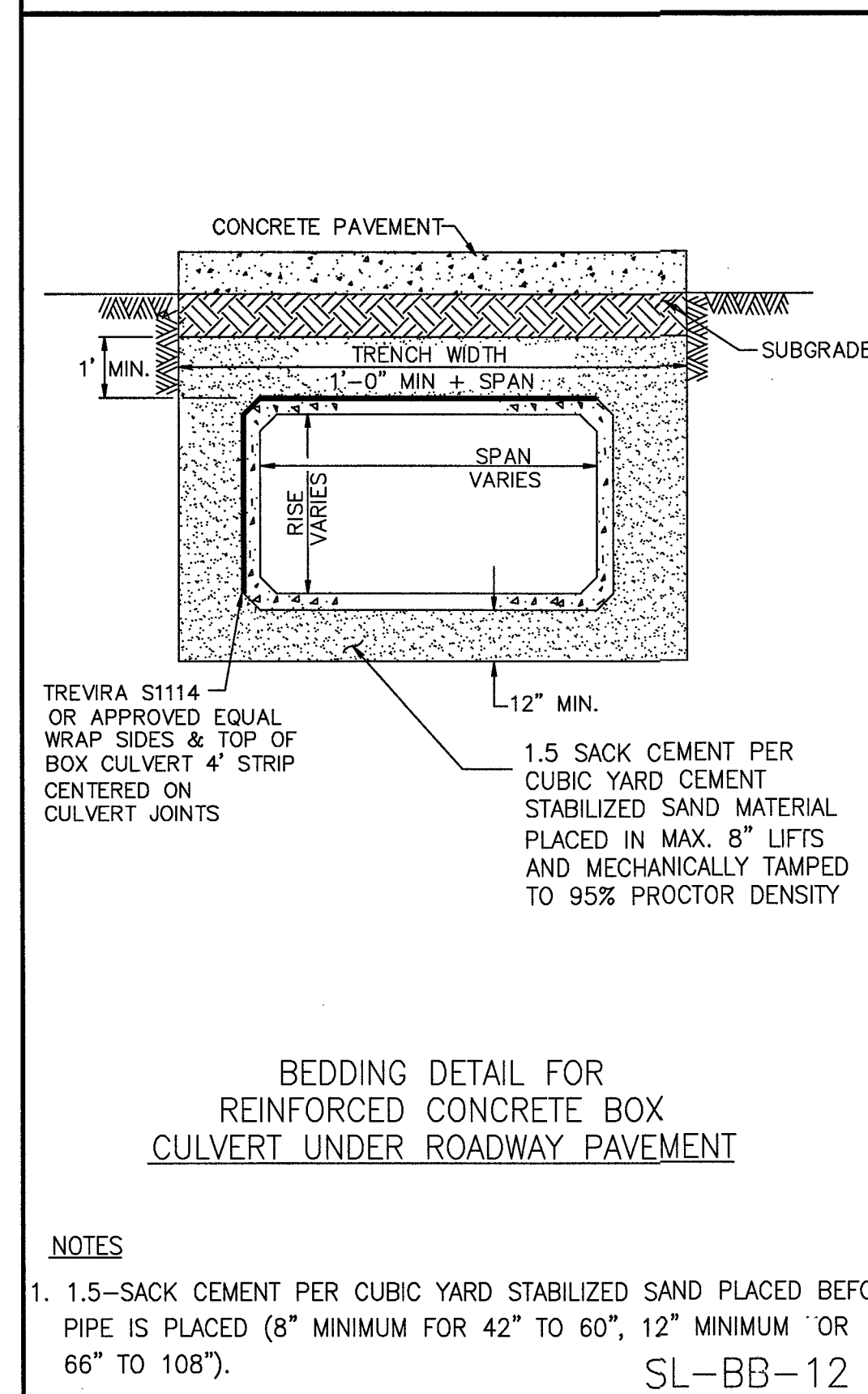
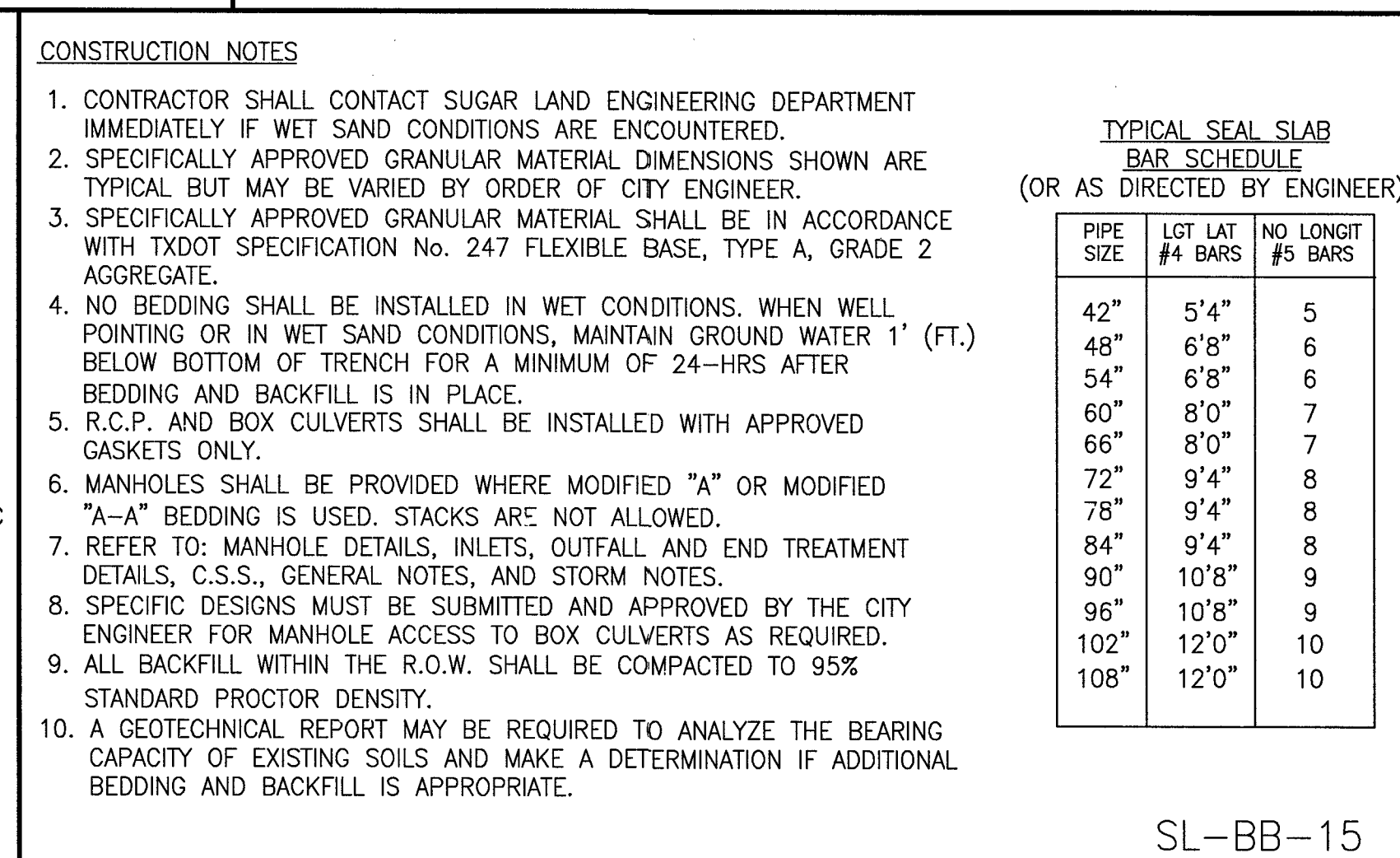
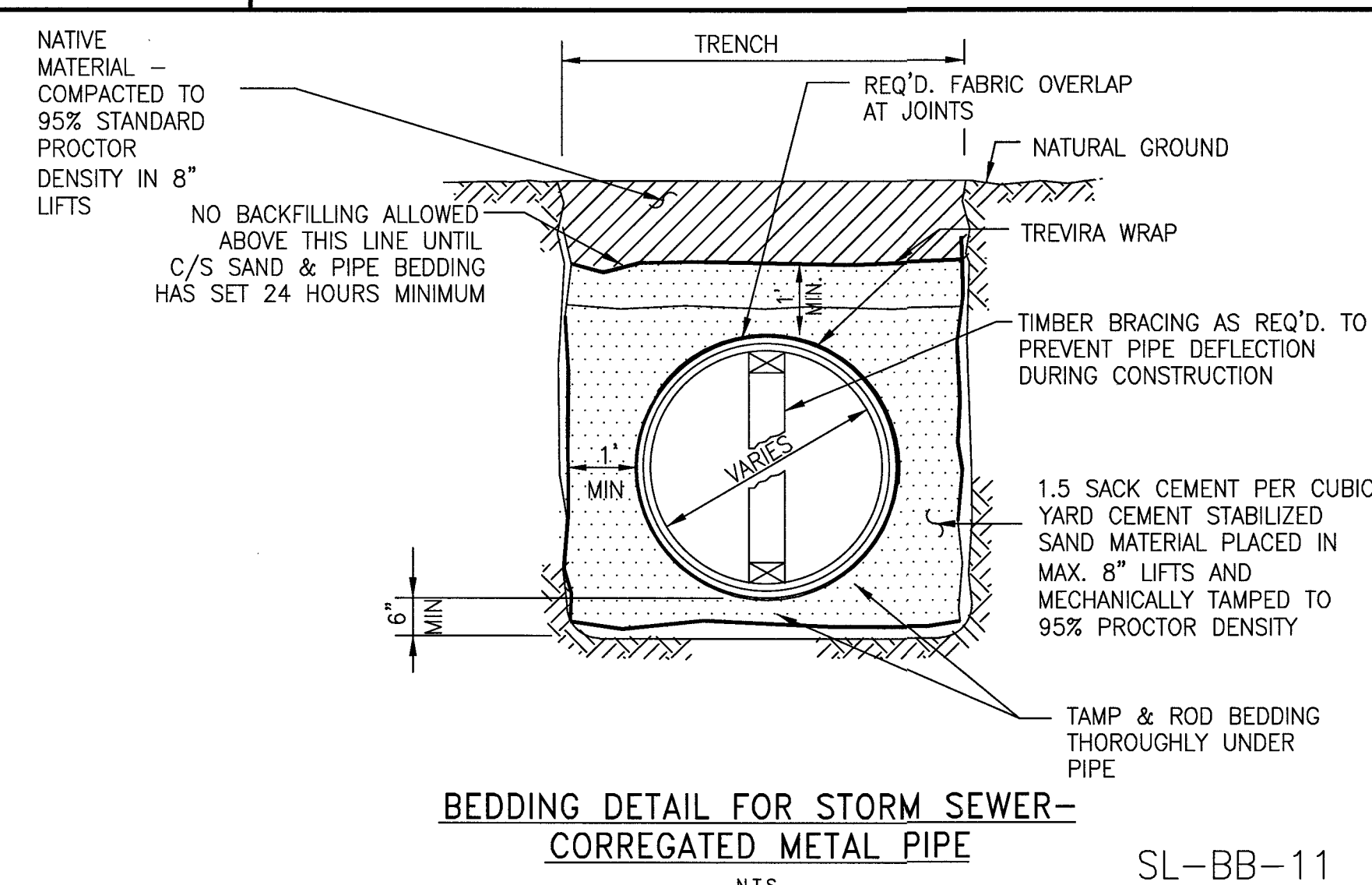
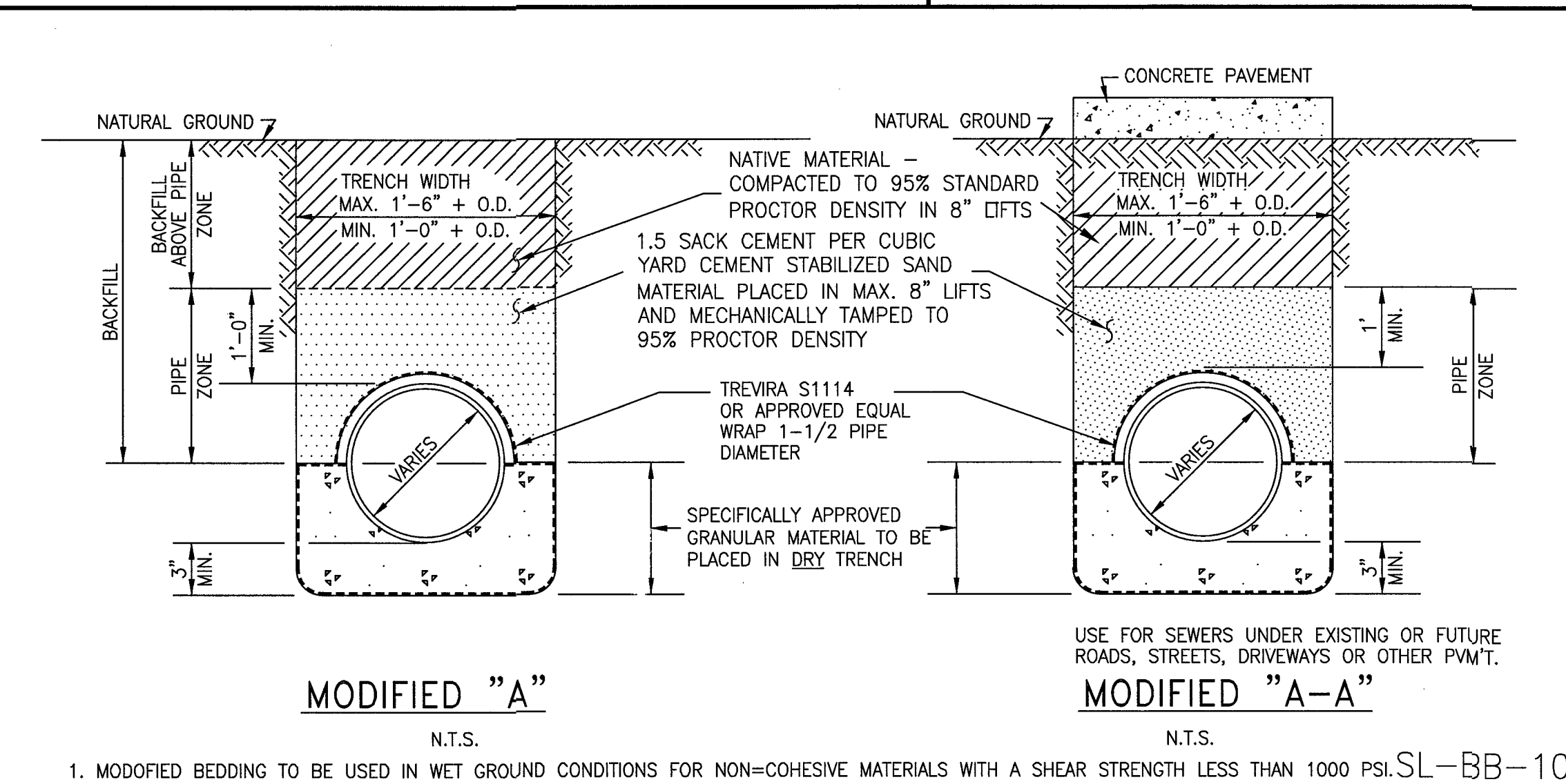
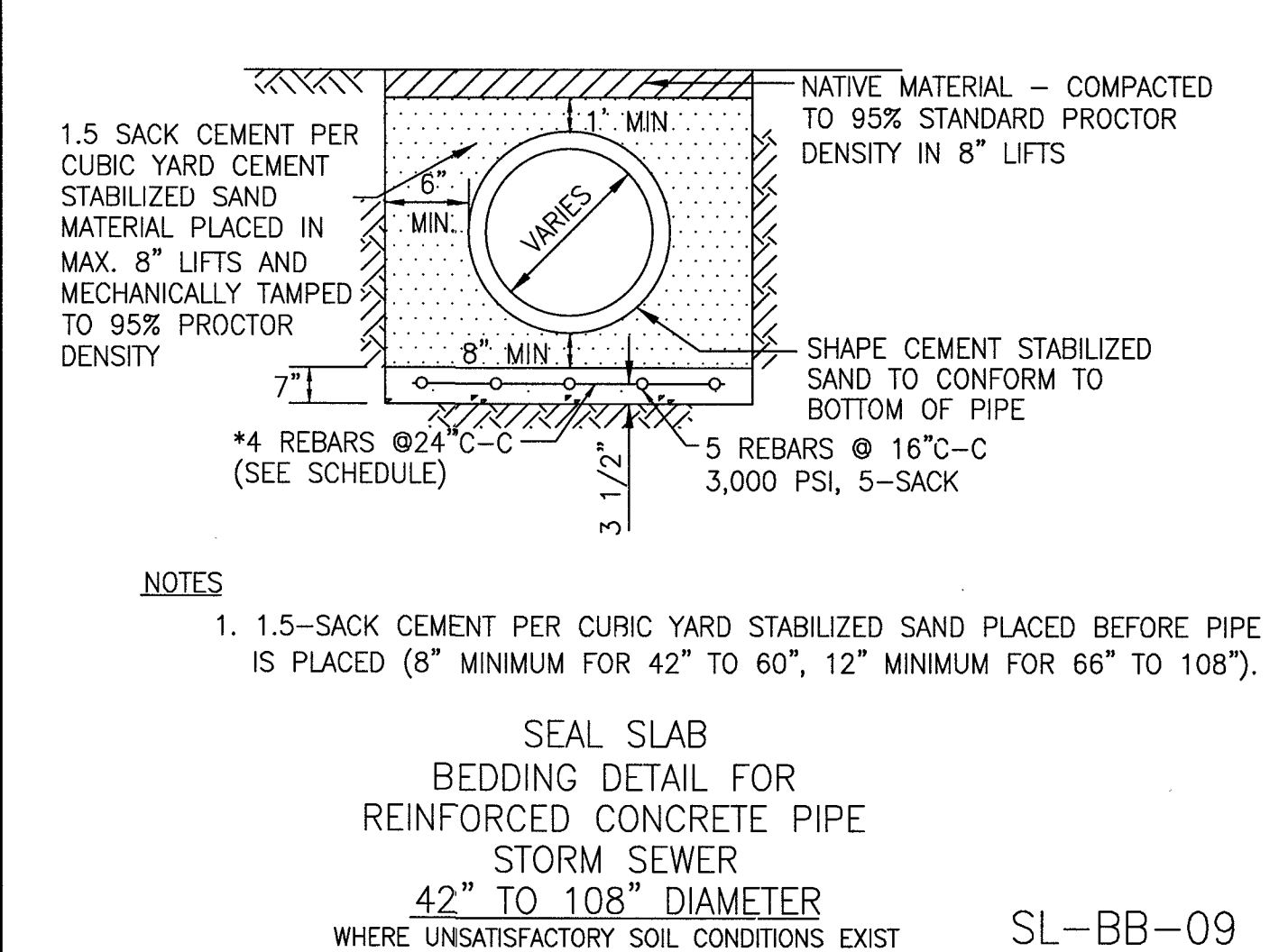
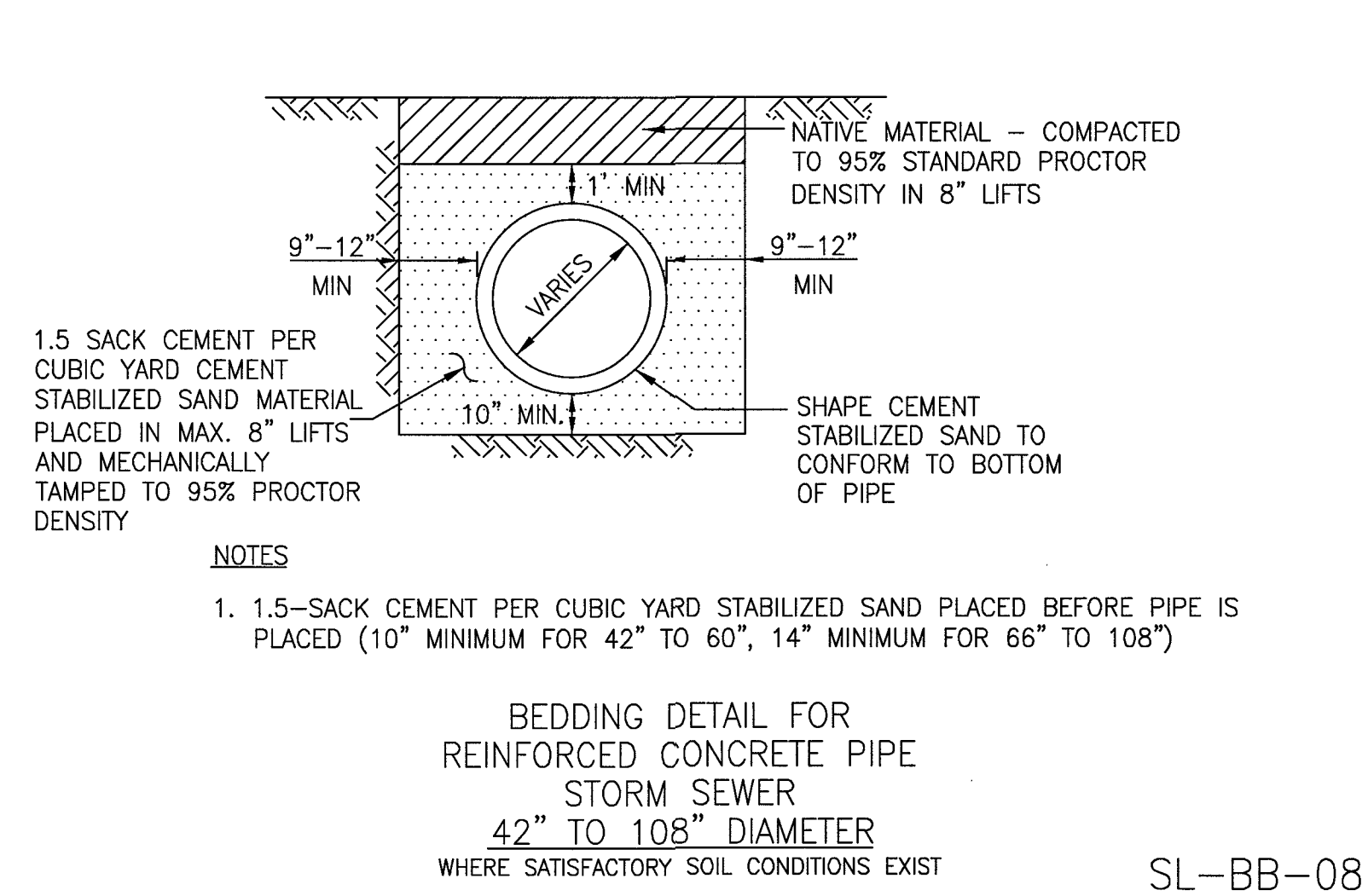
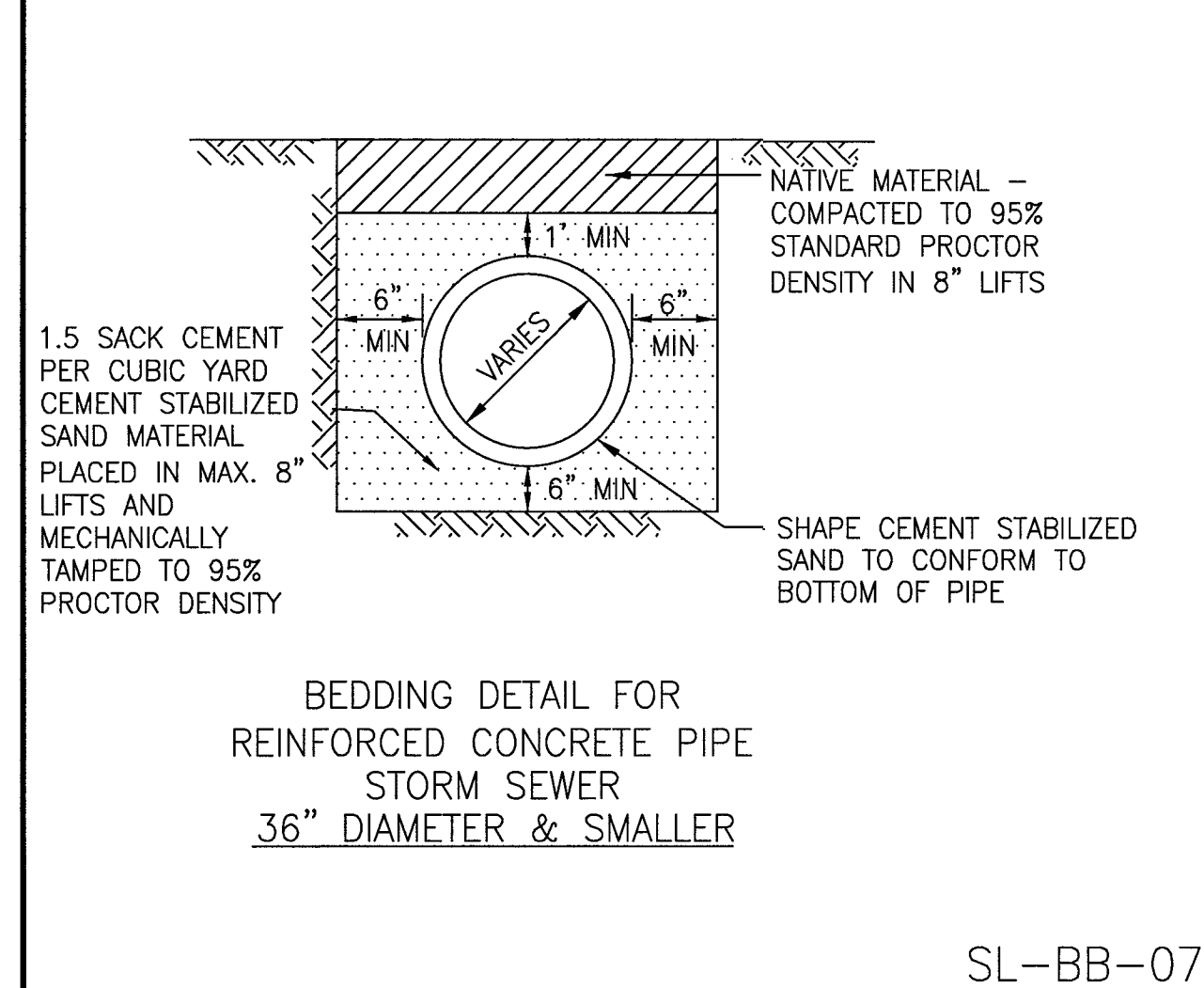
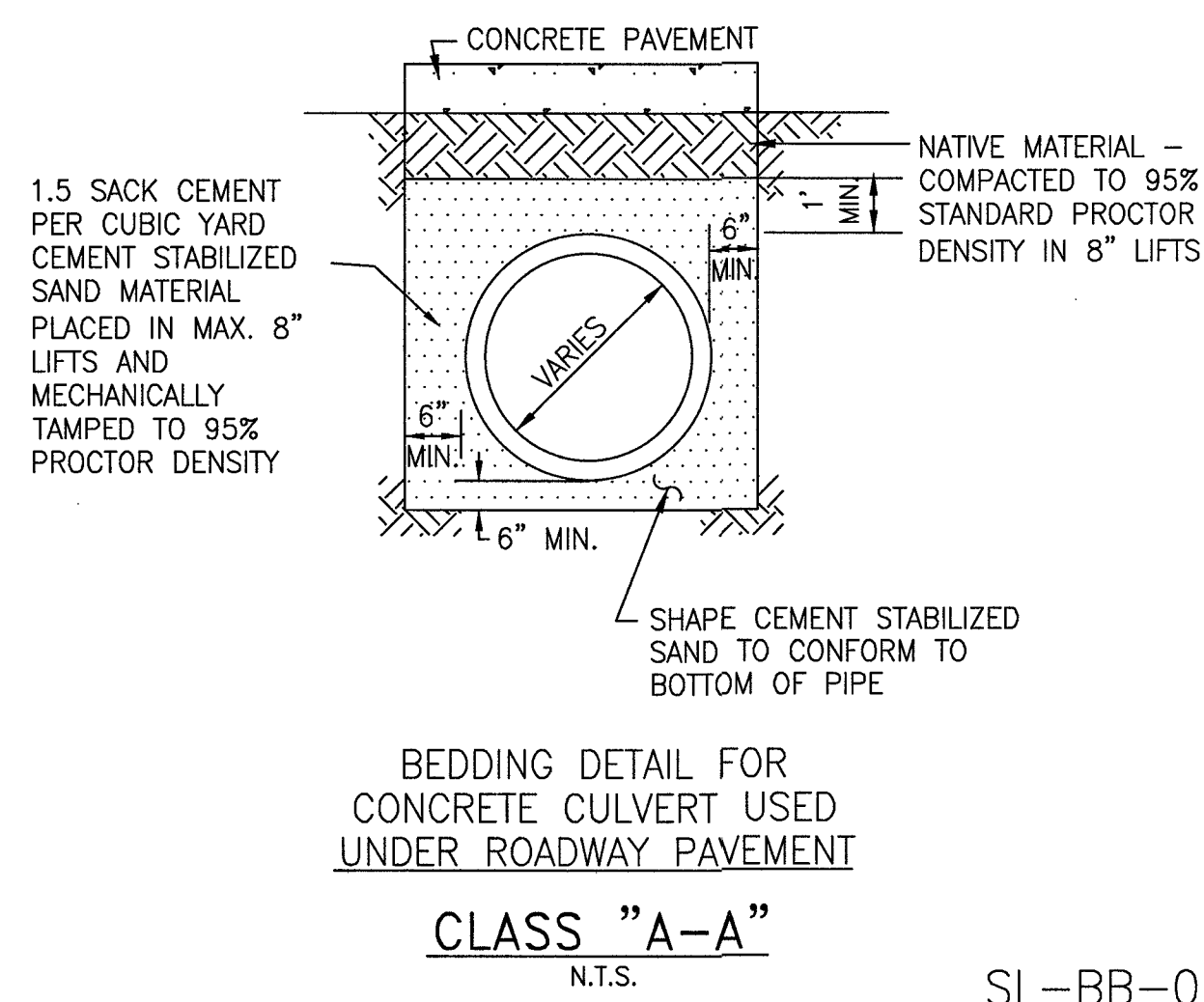
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

WATER LINE, SANITARY
SEWER FORCE MAIN
BEDDING DETAILS
SL-19

PROJECT NO. 14395



DESIGN ENGINEER: _____ DATE: _____

CITY OF SUGAR LAND, TEXAS

CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

STORM SEWER PIPE BEDDING AND BACKFILL DETAILS

SL-20

DESIGNED: DR
DRAWN: BT
CHECKED: _____
DATE: _____

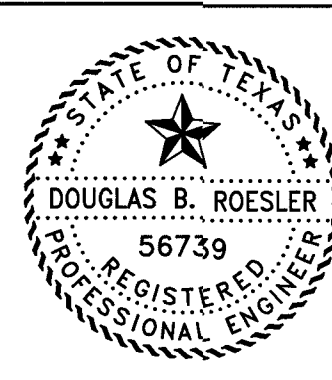
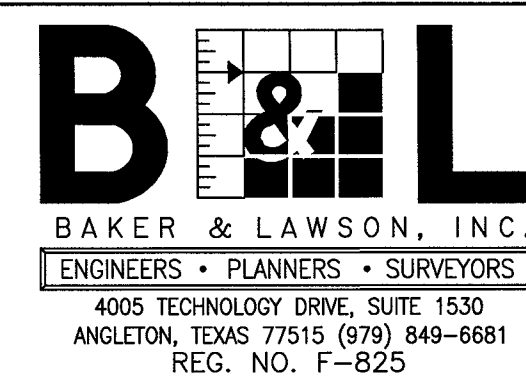
REVISIONS

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Date: 04-18-22

OWNER:

RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

STORM SEWER PIPE
BEDDING AND BACKFILL
DETAILS
SL-20

PROJECT NO. 14395



SL-ST-12

1. 6 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 24 INCHES C-C, E.W. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR LOCAL STREETS
2. 7 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 18 INCHES C-C, IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR STREETS
3. EIGHT (8) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 18" C-C. EACH WAY IS THE MINIMUM ACCEPTABLE FOR ARTERIAL STREETS.
4. HARD AGGREGATE IS NOT ALLOWED IN STREET PAVEMENT MIX. ADMIXTURES REQUIRE CITY OF SUGAR LAND PUBLIC WORKS DEPARTMENT APPROVAL.
5. TRANSVERSE EXPANSION JOINTS SHALL BE PLACED AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY AND ALL INTERSECTION CURB RETURN POINTS. MAXIMUM SPACING SHALL BE 200' AND BE SEALED WITH SEALANT CONFORMING TO TxDOT ITEM 360 (& ITEM 438) AND TxDOT DMS-6310, CLASS-2.
6. TRANSVERSE CONTROL JOINTS ARE REQUIRED AT MAXIMUM SPACING OF 20'-0" C-C, AND VERTICAL. CURB JOINTS TO BE SEALED WITH SPECIAL JOINT SEALANT ASTM-D-1190-74 OR MASHTO-M173-60 FOR PAVEMENT 8" THICK AND GREATER. (ELASTONETRIC TYPE HOT POURED).
7. PAVEMENT FINISH SHALL BE BAKER BROOM FINISH. CURING COMPOUND REQUIRED ON ALL CONCRETE.
8. STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND SHALL BE IN TOTAL COMPLIANCE WITH THE STORM QUALITY MANUAL OF THE CITY OF SUGAR LAND. CITY ENGINEER'S APPROVAL.
9. REFER TO GENERAL, C.S.S., AND PAVEMENT NOTES.



DOWEL TYPE EXPANSION JOINT

(CONC. PAVING TO CONC. BASE)

SPEED DOWEL EXPANSION JOINT

N.T.S

UNDERCUT DETAIL WITH HEADER

N.T.S

CONCRETE CURB

N.T.S.

PAVING PANEL

N.T.S

MANHOLE BLOCKOUT

N.T.S.

CONTROL JOINT

N.T.S.

SEAL

DESIGN ENGINEER:

DA



N.T.S.

NOTES:

1. FOR PVM'T DEPTHS OF 6" USE 1/2" DEFORMED BARS, 24" C-C, 10" LAPS. ALL REINFORCING STEEL SHALL CONFORM TO GRADE 60, A.S.T.M. NO. A615. LAP SPLICES TO BE A MINIMUM OF 10 INCHES. STAGGER SPLICES IN ADJACENT BARS.



PAVING HEADER

(FOR USE IN CONNECTING CONC.
PVMT. TO ASPHALT PVMT.)
(PROP. OR EXIST.)

SL-21

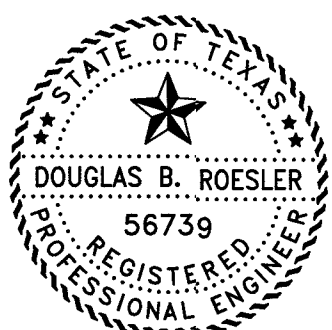
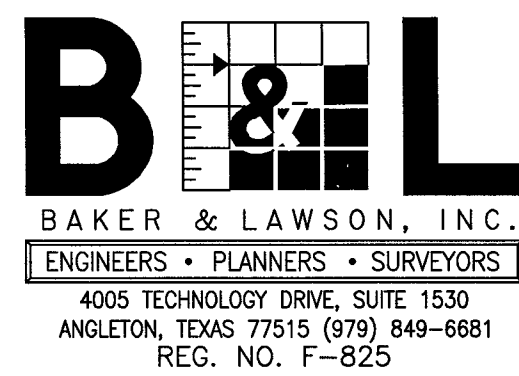
CONCRETE PAVEMENT
CONSTRUCTION DETAILS
SL-21


PROJECT NO. 14395

38

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Date: 04-18-72

**RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057**

PLAN: _____

PROFILE: _____

HORIZONTAL: _____

VERTICAL: _____

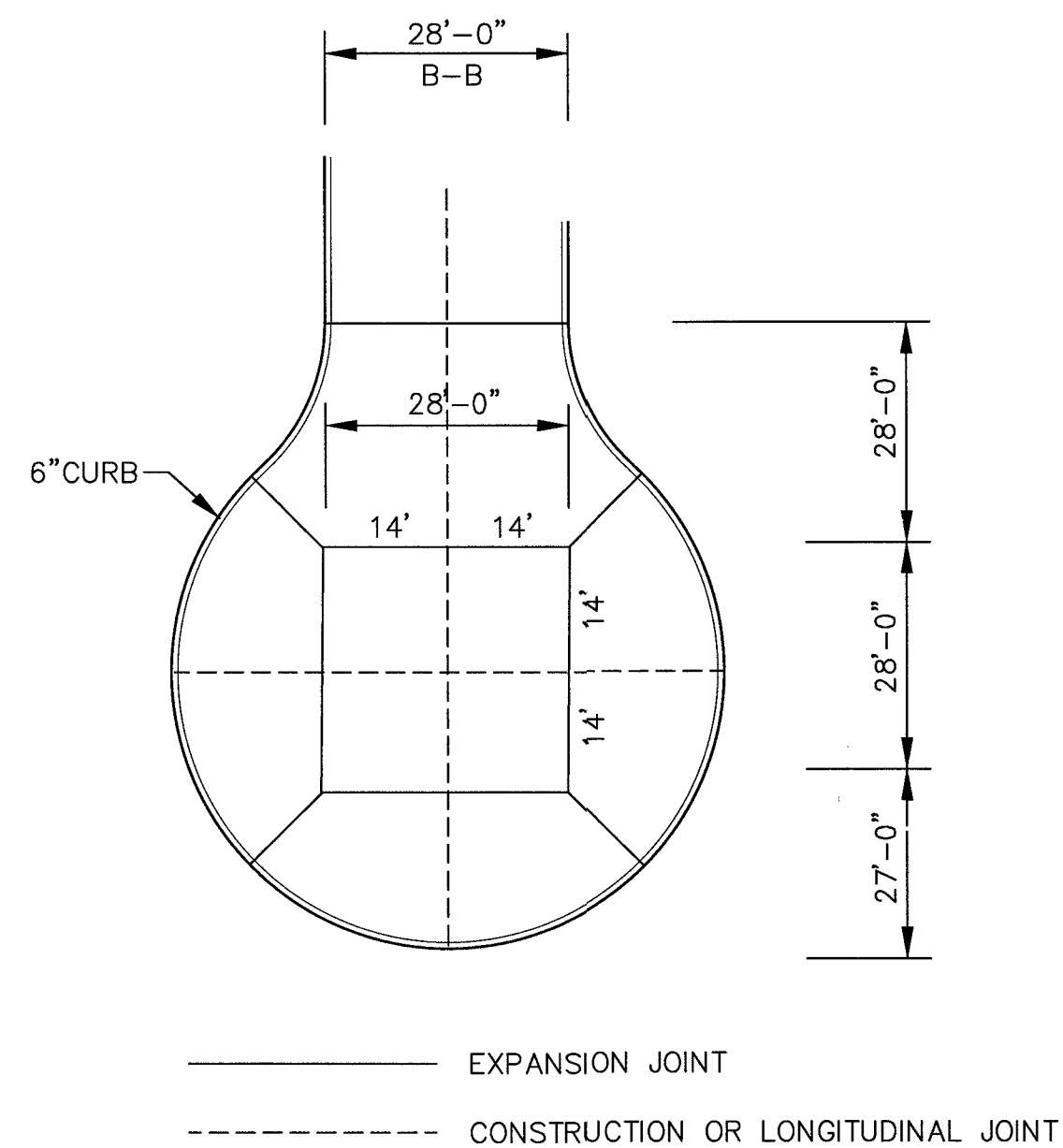
RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

38

SPACING DIAGRAM FOR JOINTS

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

———— EXPANSION JOINT
 - - - - - CONSTRUCTION OR LONGITUDINAL JOINT

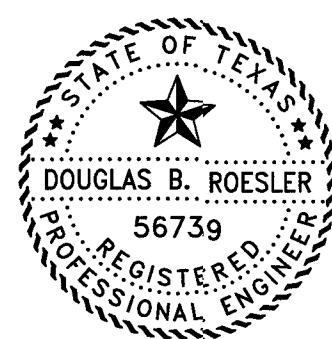
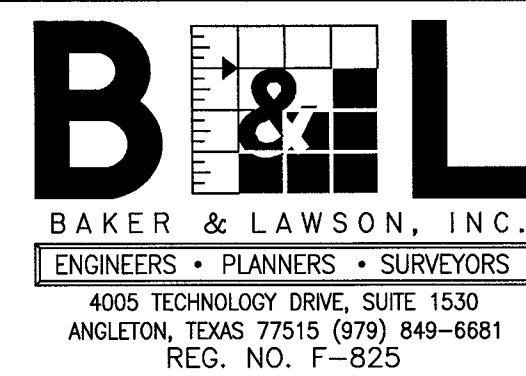



TYPICAL JOINT LAYOUT
FOR CUL-DE-SAC

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Date: 04/18/22

OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

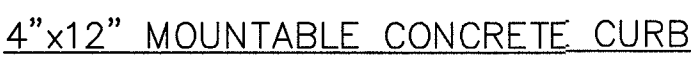
RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

CONCRETE PAVEMENT
CONSTRUCTION DETAILS
SL-22

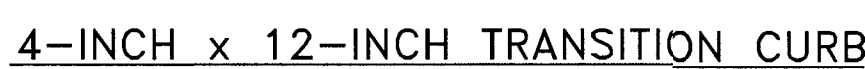
PROJECT NO. 14395



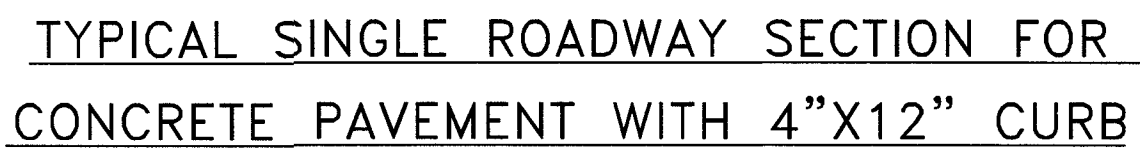
- ### CONSTRUCTION NOTES:
1. 6 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 24 INCHES C-C, E.W. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR RESIDENTIAL STREETS.
 2. 7 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 24 INCHES C-C, IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR STREETS
 3. EIGHT (8) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 18" C.C. EACH WAY IS THE MINIMUM ACCEPTABLE FOR ARTERIAL STREETS.
 4. TRANSVERSE EXPANSION JOINTS SHALL BE PLACED AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY AND ALL INTERSECTION CURB RETURN POINTS. MAXIMUM SPACING SHALL BE 200' AND BE SEALED CONFORMING TO TxDOT ITEM 360 (& ITEM 438) AND TxDOT DMS-6310, CLASS-2.
 5. TRANSVERSE CONTROL JOINTS ARE REQUIRED AT MAXIMUM SPACING OF 20'-0" C-C, AND VERTICAL CURB JOINTS TO BE SEALED WITH SPECIAL JOINT SEALANT ASTM-D-1190-74 OR AASHTO-M173-60 FOR PAVEMENT 8" THICK AND GREATER. (ELASTONETRIC TYPE HOT POURED)
 6. PAVEMENT FINISH SHALL BE BAKER BROOM FINISH. CURING COMPOUND ON ALL CONCRETE.
 7. STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND SHALL BE IN TOTAL COMPLIANCE WITH THE STORM WATER QUALITY MANUAL OF THE CITY OF SUGAR LAND.
 8. UNSTABLE SUBGRADE SHALL BE EXCAVATED AND REPLACED WITH CEMENT STABILIZED SAND.
 9. USE 1"x2" REDWOOD STAKES FOR HEADERS.
 10. EDGE ALL SIDES WITH EDGING TOOL.
 11. DOWEL SHALL BE 3/4" DIAMETER, WITH MINIMUM 8" PENETRATION (BOTH SIDES).
 12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF SUGAR LAND OF ANY BIRDBATH PROBLEMS PRIOR TO CONSTRUCTION OF DRIVEWAY.
 13. REFER TO GENERAL, C.S.S., AND PAVEMENT NOTES.
 14. 1.0 LBS. OF APPROVED POLYPROPYLENE FIBER MESH PER C/Y IN 4"x12" CURBS REQUIRED.



- 1.) 1.0 LBS. OF APPROVED NON-METALLIC FIBER MESH PER C/Y IN 4"x12" CURBS.
- 2.) #3 RE-BAR STIRRUPS TO BE PLACED AT INTERVALS OF 2' (FT) C-C.
- 3.) #4 RE-BAR LONGITUDINAL SHALL BE TIED TO EACH STIRRUP
- 4.) COUNTABLE CURB ONLY ALLOWED ON ≤ 41' (FT), UNDIVIDED, RESIDENTIAL ROADWAYS WITHIN SUBDIVISIONS.



1. 6-INCH CONCRETE CURB TO BE CONSTRUCTED ON ALL ESPALANADES, ISLANDS AND SIDEWALKS ADJACENT TO ALL STREETS. RESIDENTIAL STREETS MAY BE CONSTRUCTED WITH EITHER 6-INCH CONCRETE CURB OR 4-INCH x 12-INCH CONCRETE CURB AS NOTED ON PLANS.
2. ALL 4-INCH x 12-INCH CONCRETE CURBS TO BE POURED SEPARATE FROM PREPARED CONCRETE PAVEMENT.
3. TRANSITIONS FROM 6-INCH CONCRETE CURB TO 4-INCH x 12-INCH CONCRETE CURB SHALL BE MADE WITHIN 5 FEET (TYP.) UNLESS OTHERWISE SHOWN. REINFORCING STEEL AS SHOWN IN "4-INCH x 12-INCH TRANSITION CURB" DETAIL IS TO BE INSTALLED.



NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR


DRAWN BT

CHECKED _____

DATE _____

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

STATE OF TEXAS
★
DOUGLAS B. ROESLER
56739
REGISTERED
PROFESSIONAL ENGINEER

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this document was
authorized by
Douglas B. Roesler
P.E. 56739

Date: 04-18-22

OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

PLAN: _____

PROFILE: _____

HORIZONTAL: _____

VERTICAL: _____

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

RESIDENTIAL CURB
CONSTRUCTION DETAILS
SL-23

PROJECT NO. 14395

SL-ST-23

CROSS RAMP
SIDEWALK
CONNECTION
ON OPEN
DITCH

B-B
EXPANSION JOINT DETAIL

NOTES:

1. EXISTING CURB AND GUTTER TO BE SAW CUT, REMOVED AND REPLACED. DOWEL STEEL FOR MINIMUM REINFORCING OVERLAP OF 10 INCHES (10") DOWELS SHALL BE EIGHTEEN INCHES (18") LONG AND EPOXIED A MINIMUM OF (8") EIGHT INCHES INTO EXISTING PAVEMENT.
2. IF SIDEWALKS ARE NEITHER EXISTING NOR PROPOSED WHERE WHEELCHAIR RAMP ACCESS IS REQUIRED, CONCRETE SIDEWALKS SURFACE 4 1/2" THICK SHALL BE INSTALLED TO PROVIDE ACCESS TO THE PEDESTRIAN PUSH BUTTONS.
3. DETECTABLE WARNINGS REQUIRED BY T.A.S. SECTIONS 4.1 AND 4.7 SHALL COMPLY WITH T.A.S. SECTION 4.29
4. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACE SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-GANE.
5. DETECTABLE WARNING SURFACE SHALL COVER THE ENTIRE WIDTH AND DEPTH OF RAMP.
6. DETECTABLE WARNINGS SHALL BE INSTALLED WITH PAVERS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
7. CONCRETE PAVES UNITS SHALL MEET ALL REQUIREMENTS OF ASTM C-935, C-33, AND SHALL BE PLACED IN A TWO BY TWO UNIT BASKET WEAVE PATTERN, UNLESS SHOWN OTHERWISE IN THE PLANS.
8. CONCRETE PAVES UNITS SHALL HAVE A TRUNCATED DOME TOP SURFACE FOR DETECTABLE WARNING TO PEDESTRIANS. DOWNS SHALL BE ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL.
9. CONCRETE PAVES UNIT COLOR FOR THE RAMP SHALL BE A CONTRASTING COLOR THAT PROVIDES A LIGHT REFLECTIVE THAT SIGNIFICANTLY CONTRASTS WITH THE ADJACENT SURFACES. ADJACENT SURFACES INCLUDE SIDE FLARES.
10. CONCRETE PAVES UNITS SHALL BE SAW CUT ONLY, AND ANY CUT UNIT SHALL NOT BE LESS THAN 25% OF A FULL UNIT.

CONSTRUCTION NOTES:

1. THE MAXIMUM WIDTH BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 20'-0"
2. EXPANSION JOINT IS TO BE 1/2" THICK CLEAR HEART REDWOOD WITH DOWELS.
3. SCORED CONTRACTION JOINTS SHALL BE EVERY 5' OR EQUAL TO WIDTH OF SIDEWALK.
4. ALL EARTHEN AREAS ARE TO BE SODDED UNLESS SHOWN OTHERWISE ON DRAWINGS.
5. 4 INCH, 5 SACK CEMENT PER CUBIC YARD CONCRETE, 3000 PSI. REINFORCED CONCRETE WITH #3 BARS, 18 INCHES C-C, FOR SIDEWALKS, #4 BARS 18' C-C FOR WHEEL CHAIR RAMPS IS THE MINIMUM ACCEPTED. MINIMUM 3 LONGITUDINAL BARS. FIBER REINFORCING SIDEWALKS-STEEL AND POLYPROPYLENE BLENDED FIBER REINFORCEMENT SYSTEM SUCH AS NOVOMESH e3 AS MANUFACTURED BY S.I. CONCRETE SYSTEMS (OR PRE-APPROVED EQUAL) MAY BE USED AS AN ALTERNATE TO CONVENTIONAL REBAR REINFORCING AT A DOSAGE RATE OF 24 LBS. PER CUBIC YARD OF CONCRETE.
6. USE RADIUS TOOL ON ALL EXPOSED EDGES.
7. TOP OF THE SIDEWALK ELEVATION TO BE TOP OF CURB.
8. MEMBRANE CURING COMPOUND IS REQUIRED AS DESCRIBED IN ITEM 526 IN THE TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
9. REFER TO GENERAL NOTES AND CONCRETE/PAVING NOTES.
10. SIDEWALK EXPANSION JOINTS SHALL CONFORM TO STREET EXPANSION JOINT STANDARDS.

SL-ST-29

SECTION (A)

SL-ST-26

SL-ST-28

NOTE:
SEE SIDEWALK, CONC/PAVING, AND GENERAL NOTES

SL-ST-31

TRUNCATED DOME PATTERN CURB RAMP

CONCRETE PAVER WITH
TRUNCATED DOME SURFACE

HANDICAP RAMP UNDERCUT

1. STANDARD FLARED SINGLE RAMPS ARE ALLOWED AT LOCAL/LOCAL STREET CROSSINGS

WHEELCHAIR RAMP

SECTION B

SL-ST-32

No.	DATE	REVISION

SEAL:

DATE _____

DESIGN ENGINEER: _____

CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

WHEEL CHAIR RAMP & SIDEWALK DETAILS I

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

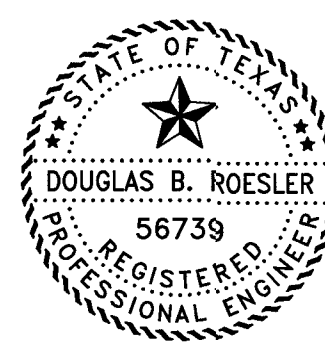
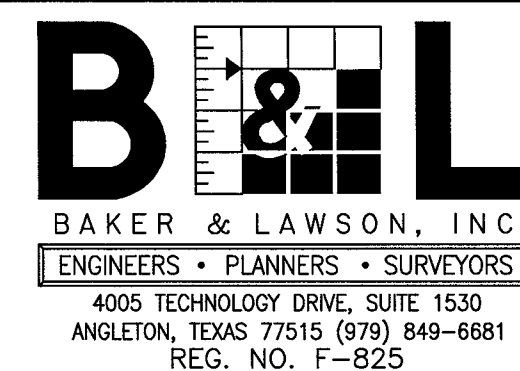
SL-25

SHEET


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REVISIONS			

DESIGNED DR
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CHECKED _____
DATE _____



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P.E.-56739


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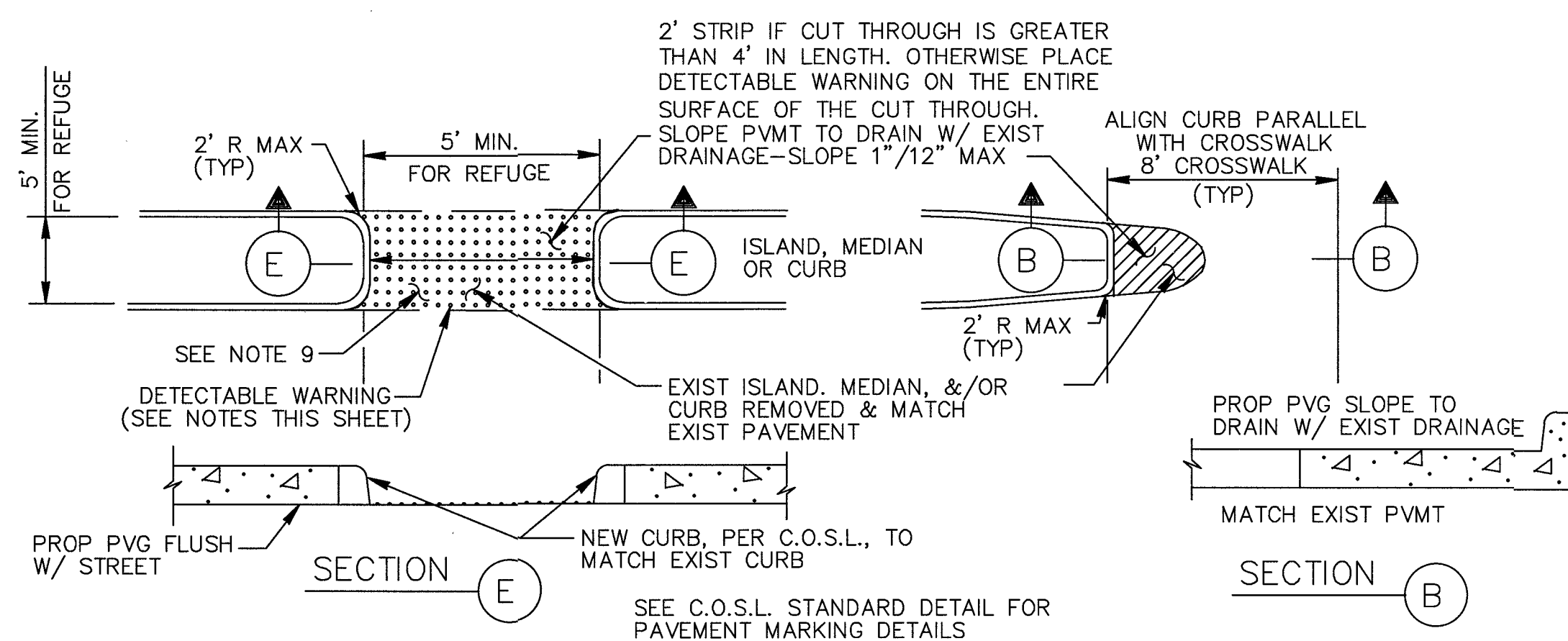
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

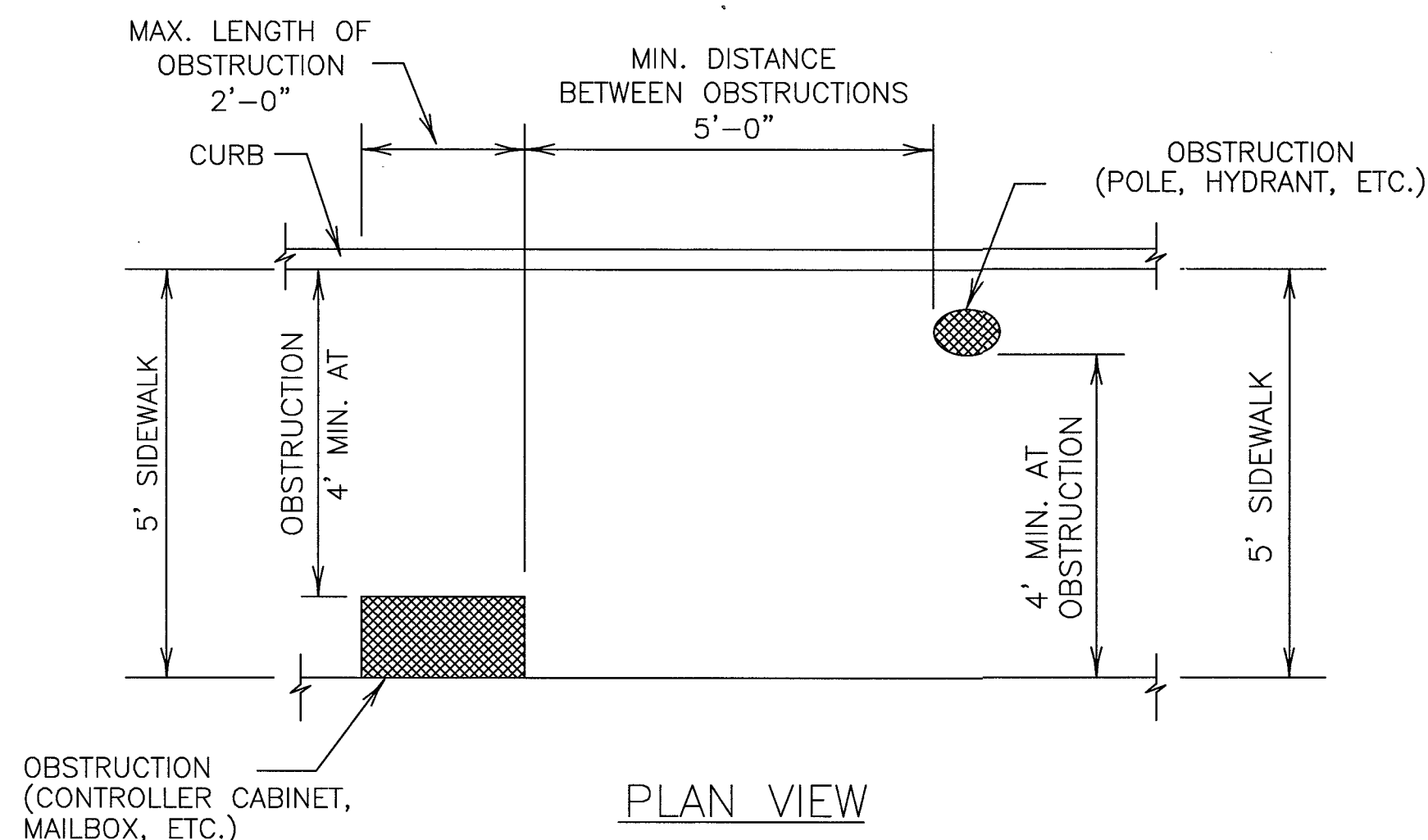
WHEEL CHAIR RAMP &
SIDEWALK DETAILS I
SL-25

PROJECT NO. 14395



FOR ISLAND, MEDIAN, OR CURB MODIFICATIONS FOR CROSSWALKS

SL-ST-35



T, PLAN VIEW
PLACEMENT OF STREET FIXTURES

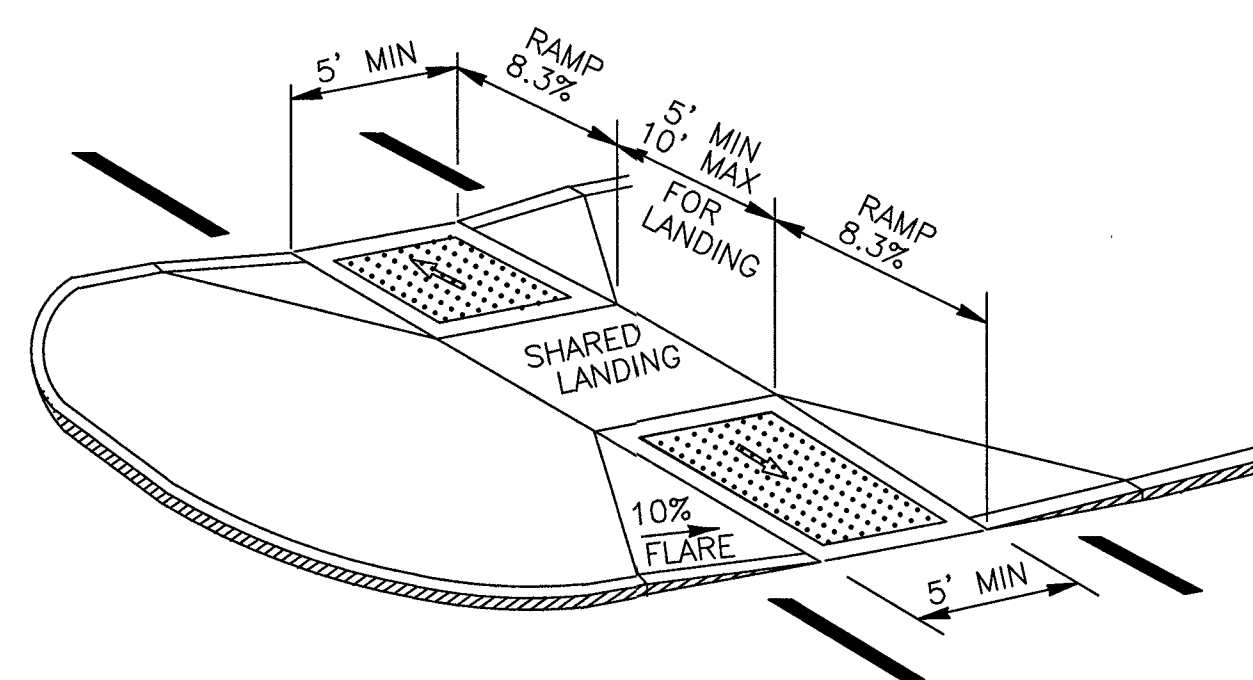
(ITEMS NOT INTENDED FOR PUBLIC USE.
MINIMUM 4' x 4' CLEAR GROUND SPACE
REQUIRED AT PUBLIC USE FIXTURES.)

SL-ST-36

NOTES:

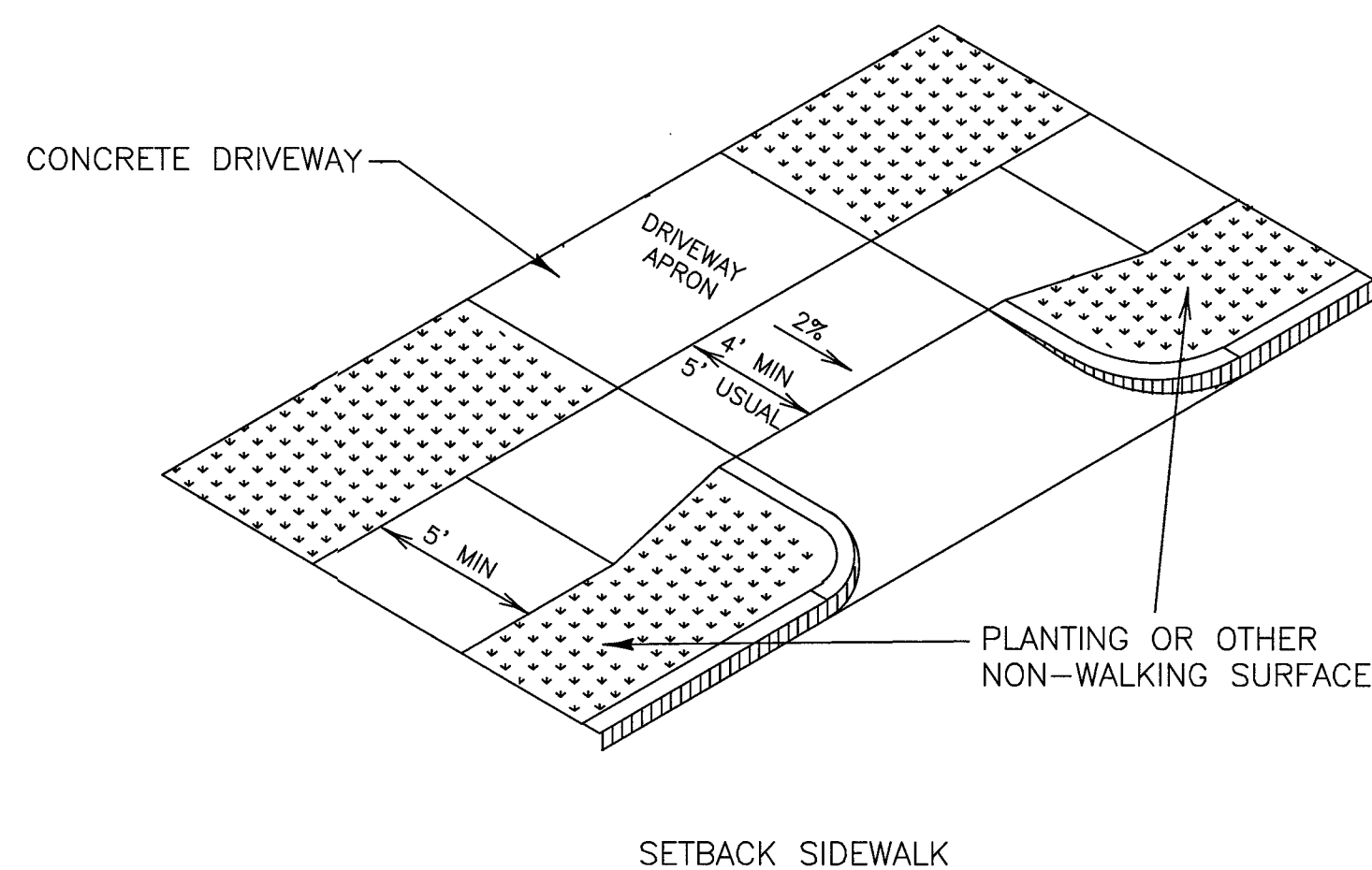
1. ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL. STILL DRAIN PROPERLY SHOULD BE USED. RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS MAY BE ADJUSTED AS DIRECTED
2. THE MINIMUM SIDEWALK WIDTH IS 5' (FEET). THE LANDING SHALL BE 5' x 5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. MAXIMUM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

SL-ST-40



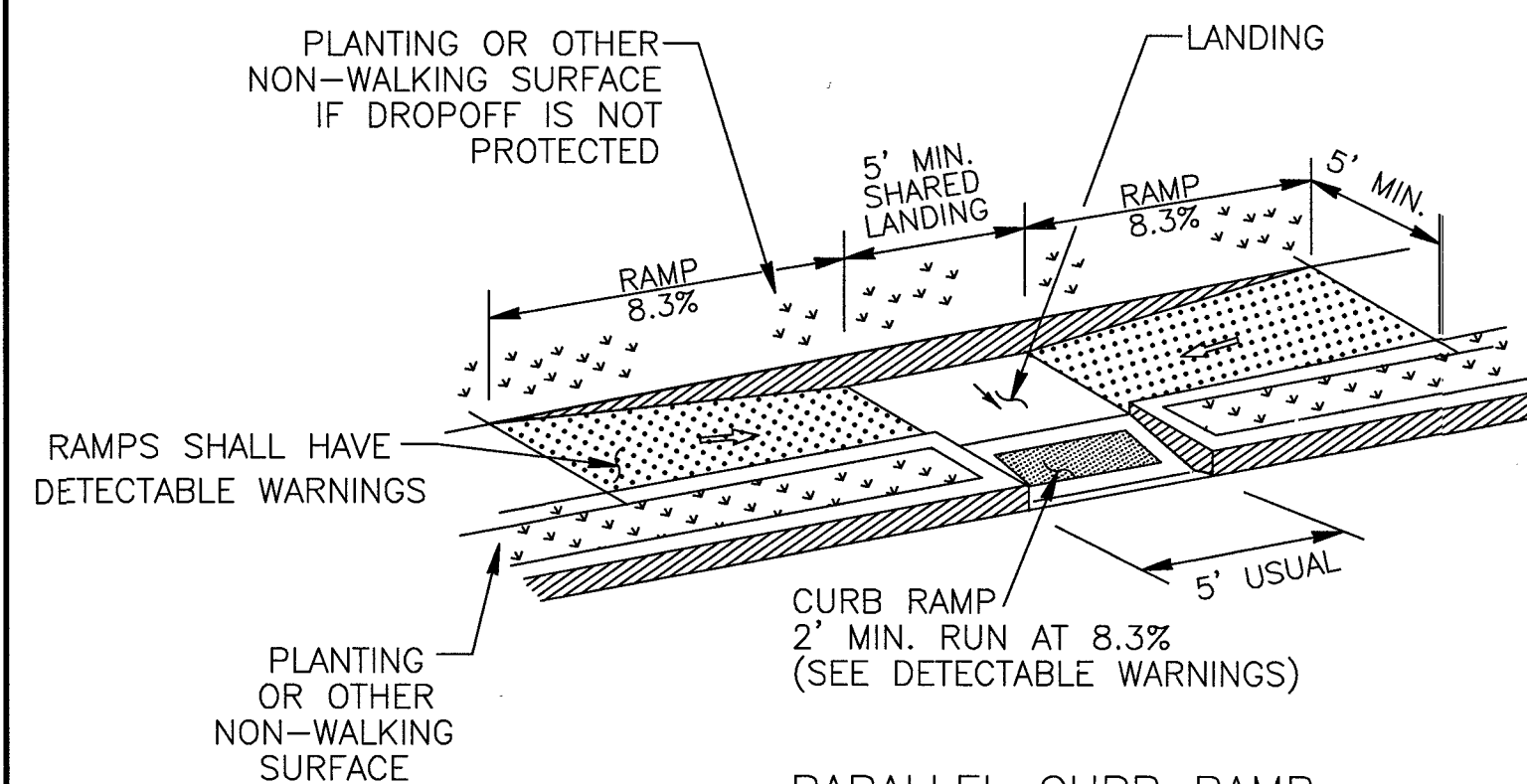
CURB RAMPS AT MEDIAN ISLANDS

SL-ST-37



SIDEWALK TREATMENT AT DRIVEWAYS

SL-ST-38



PARALLEL CURB RAMP

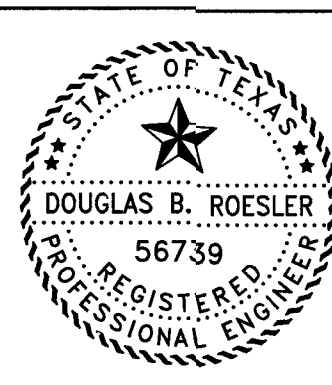
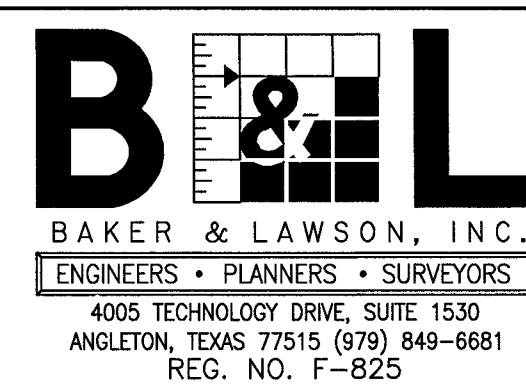
SL-ST-39


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RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR
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DATE _____



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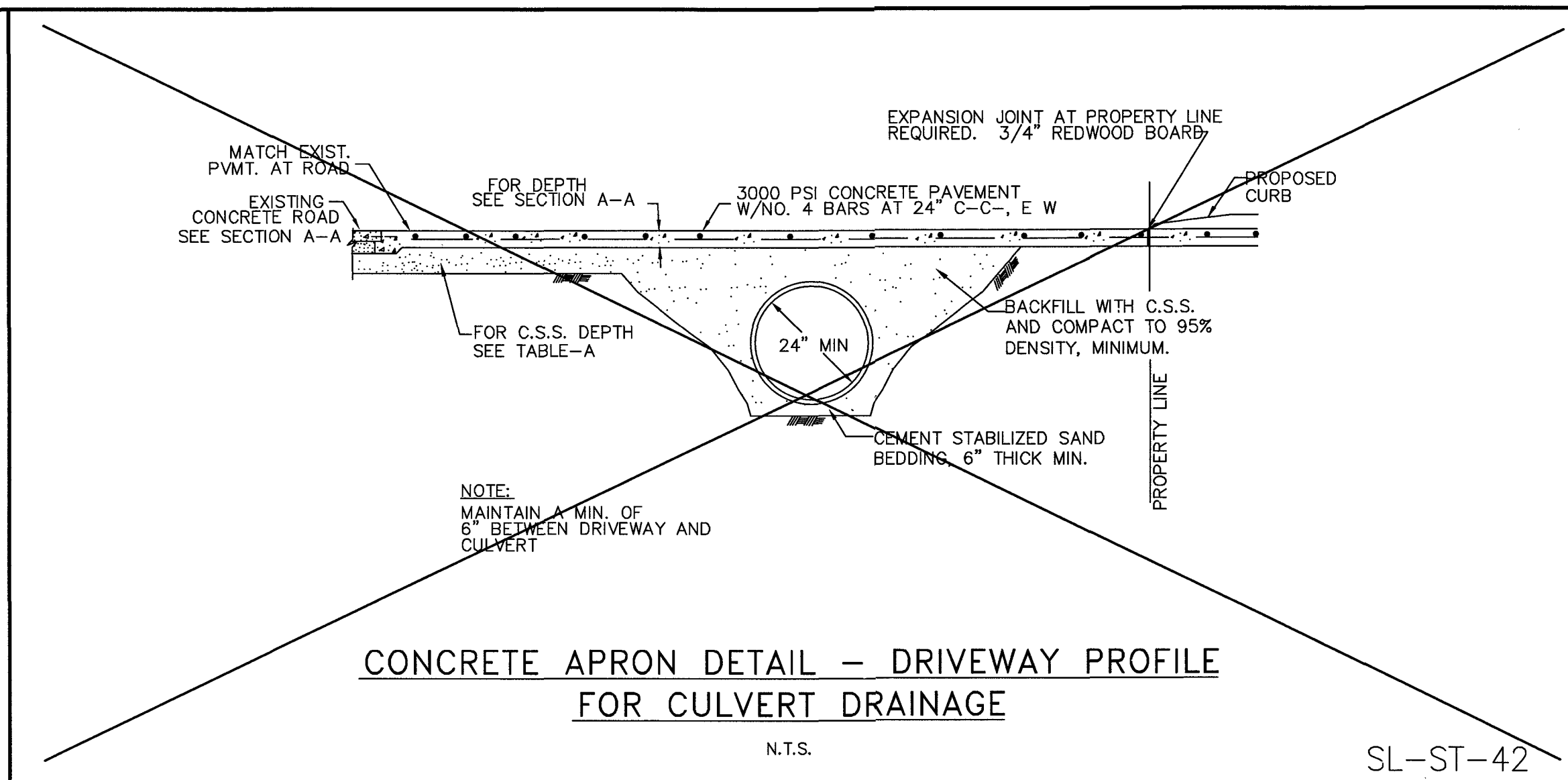
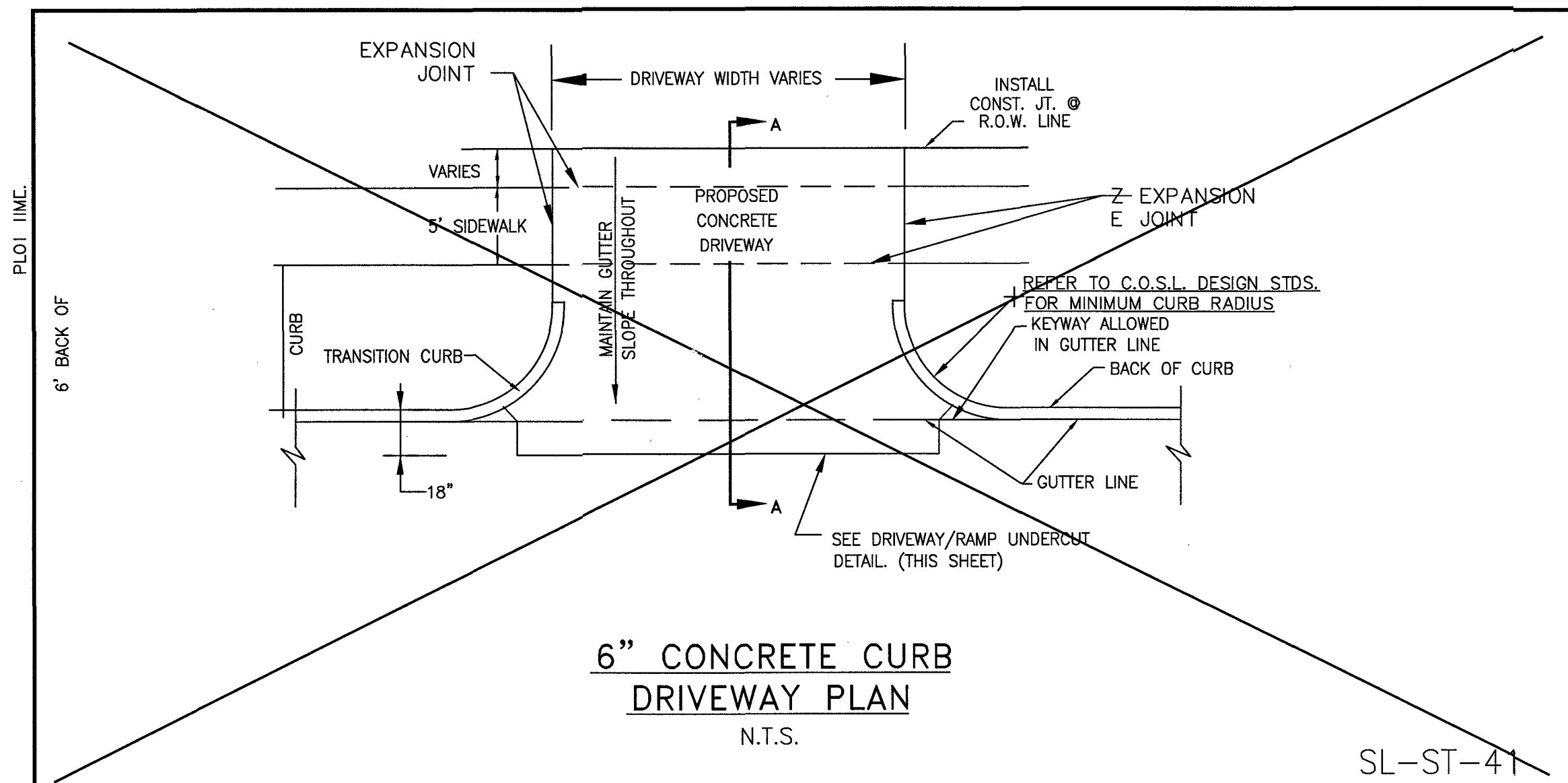
OWNER:
RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

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

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

WHEEL CHAIR RAMP &
SIDEWALK DETAILS II
SL-26

PROJECT NO. 14395



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

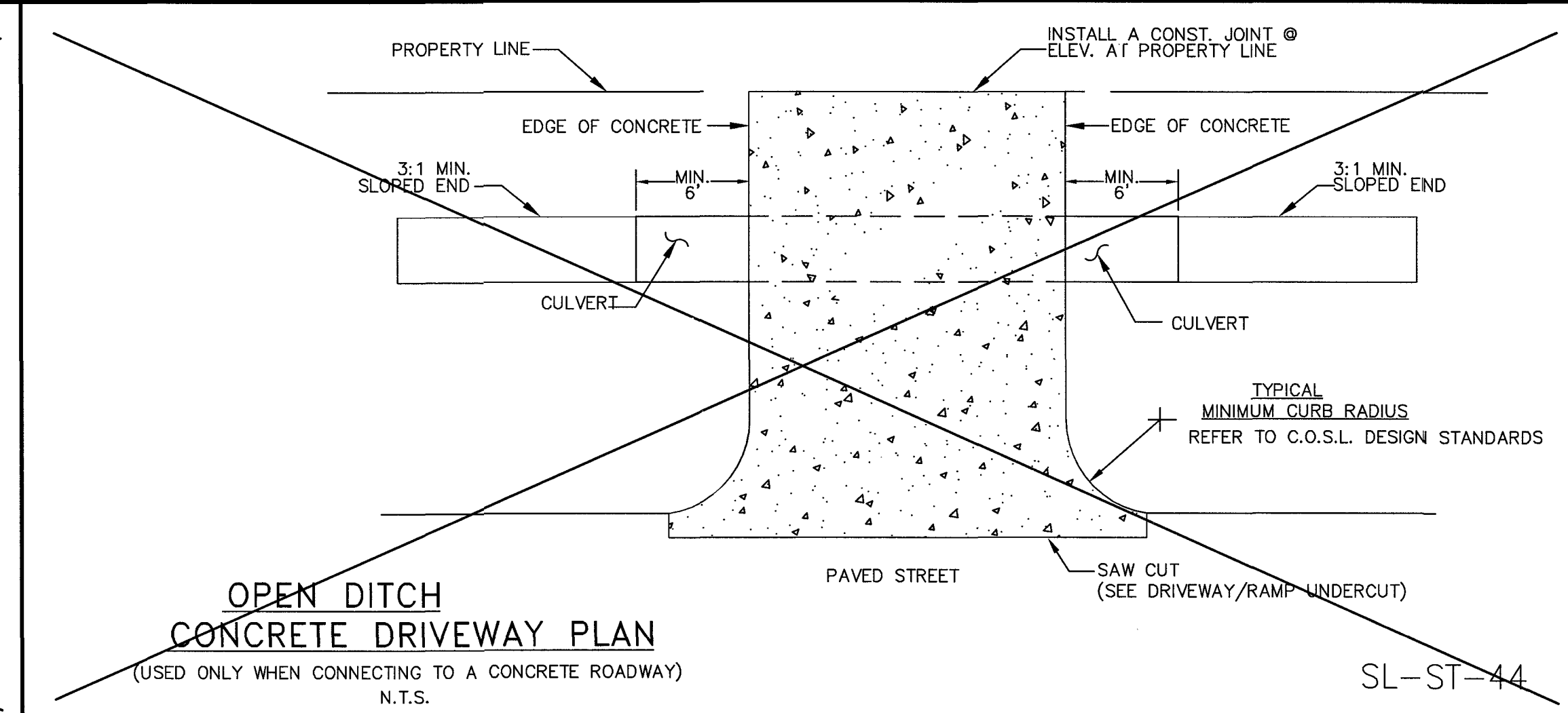
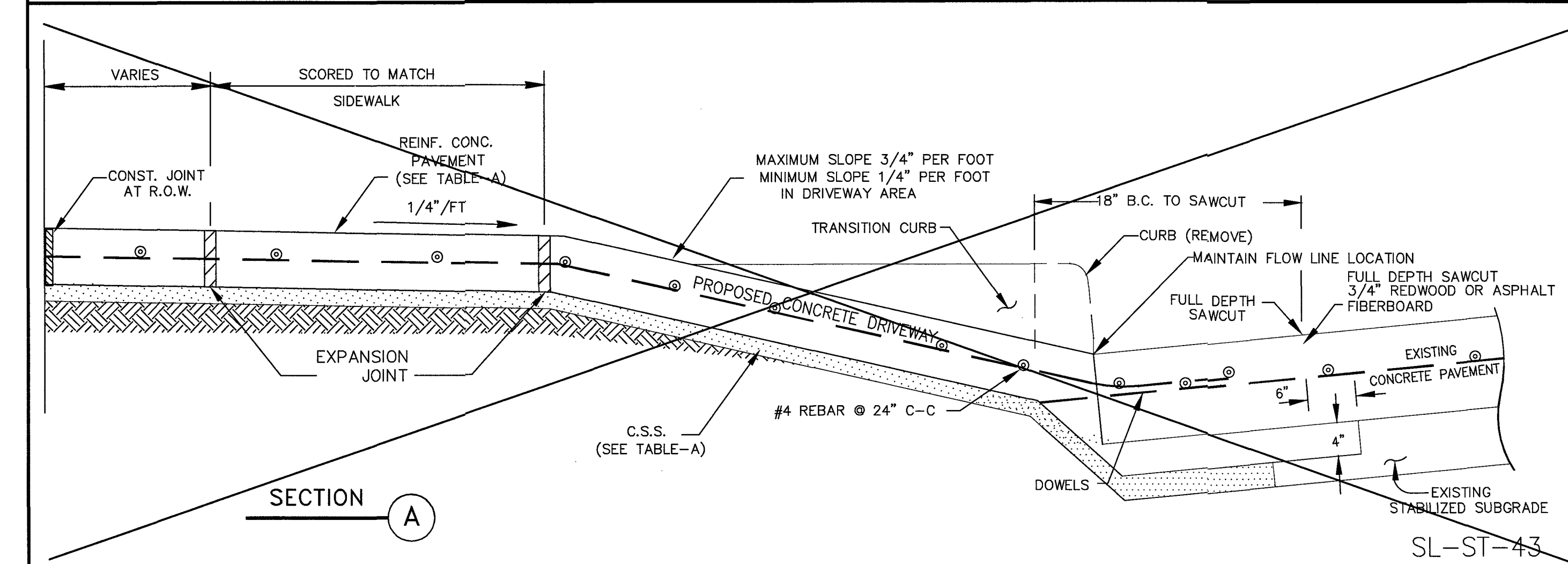


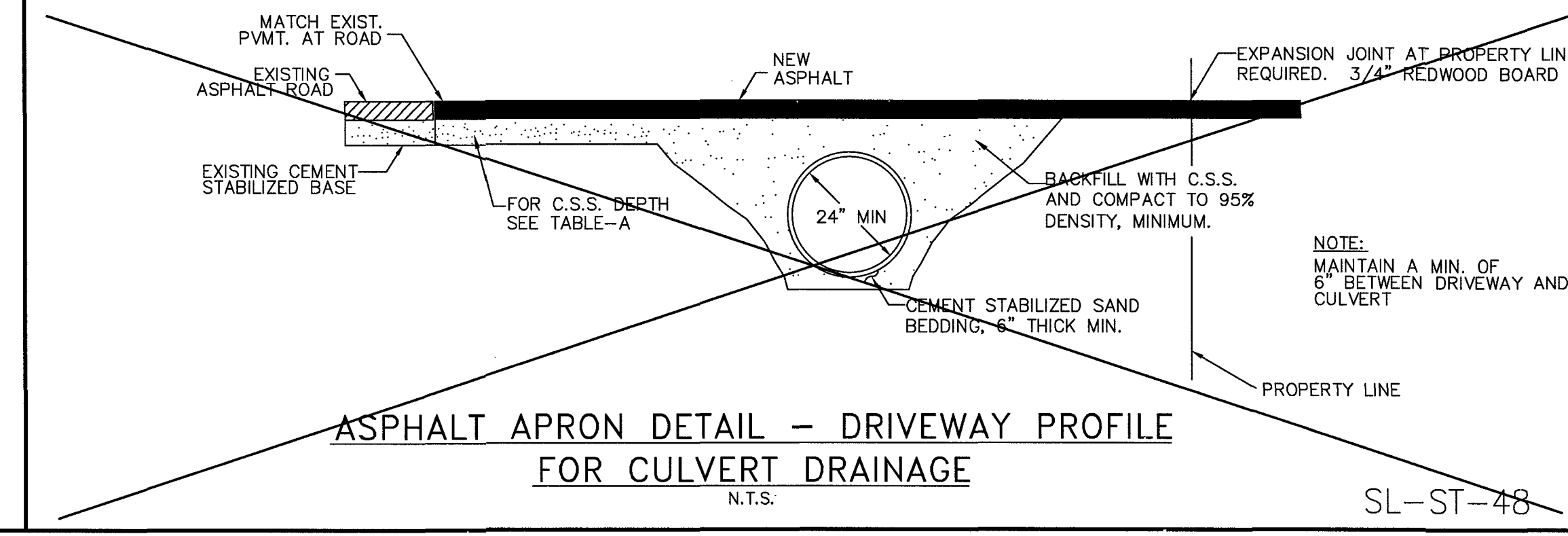
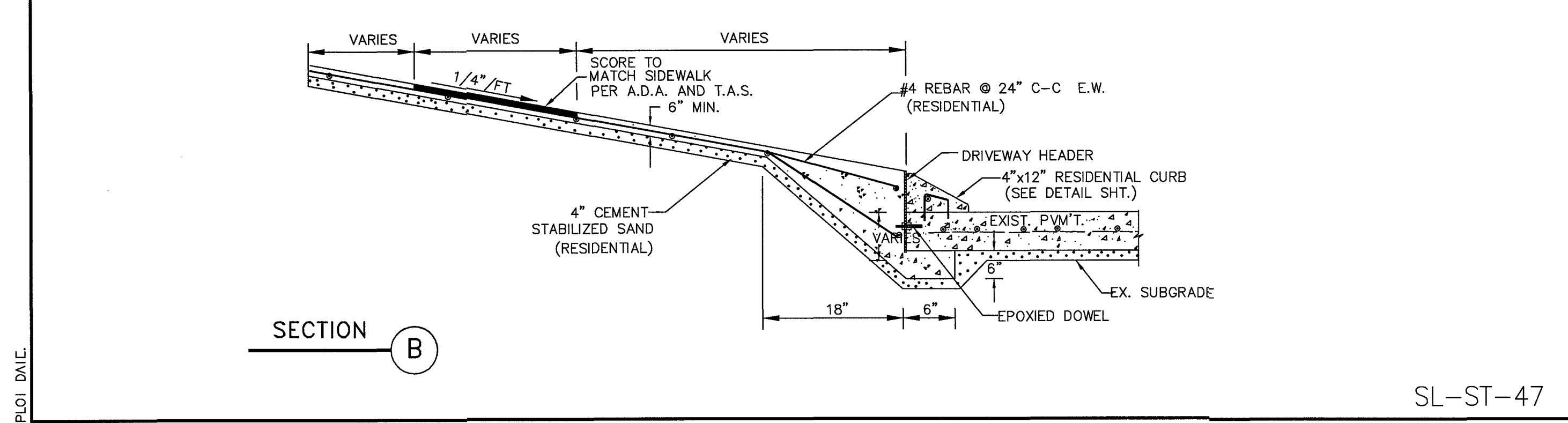
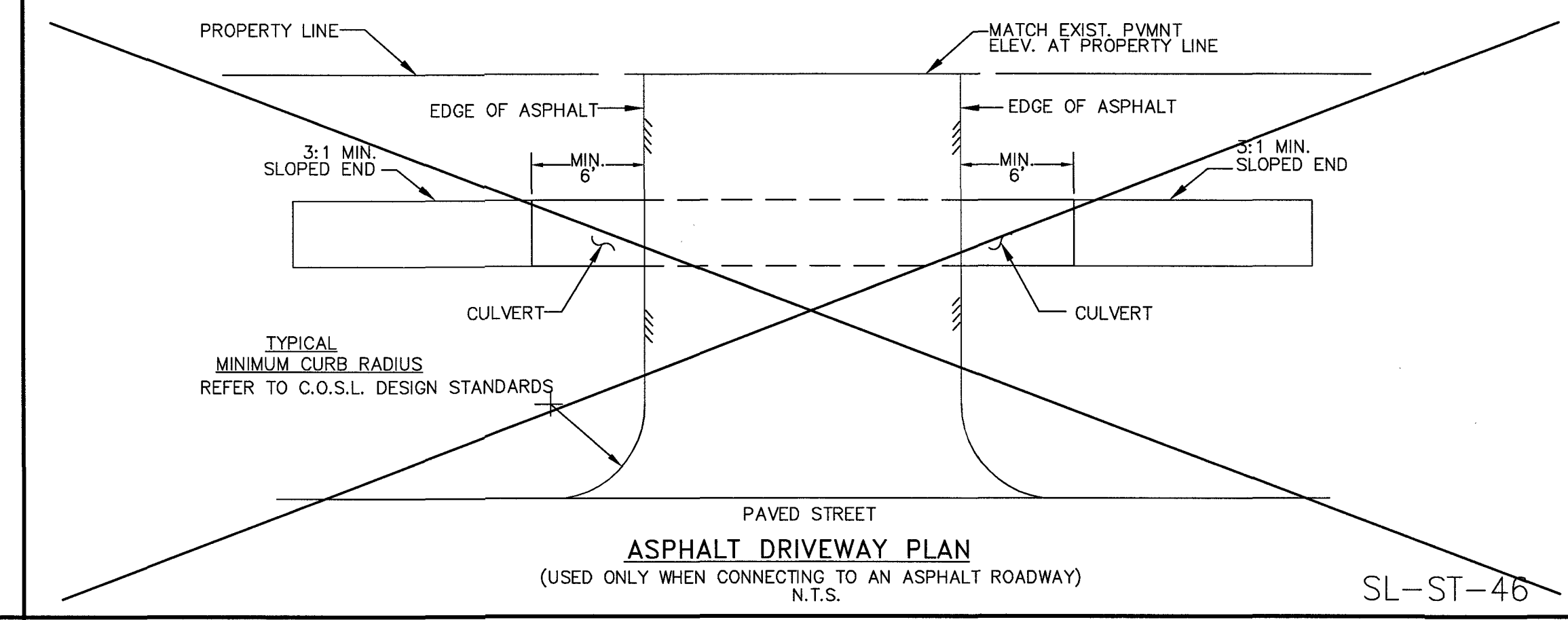
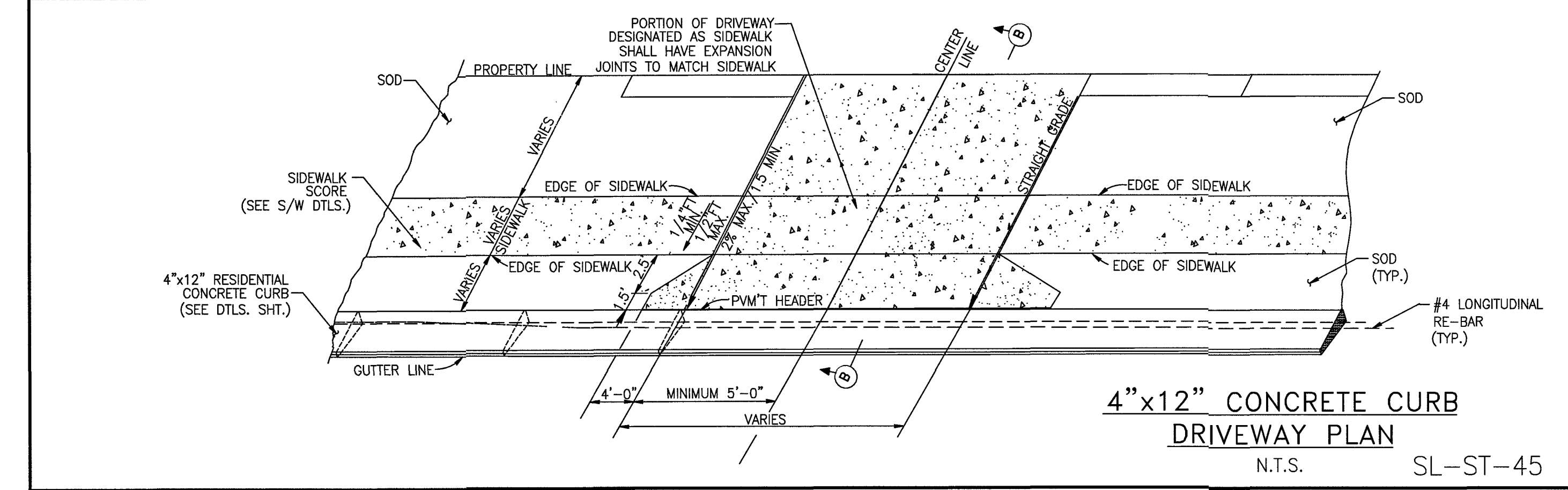
TABLE-A

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

DRIVEWAY PAVEMENT CONSTRUCTION TABLE

No.	DATE	REVISION

DESIGN ENGINEER: _____ DATE: _____



SEAL:

DESIGN ENGINEER: _____ DATE: _____

CITY OF SUGAR LAND, TEXAS

CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

DRIVEWAY CONSTRUCTION DETAILS

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

SL-27

SHEET OF

RECORD DRAWING

NO.	DATE	DESCRIPTION	APPROVED

REVISIONS

DESIGNED DR

DRAWN BT

CHECKED

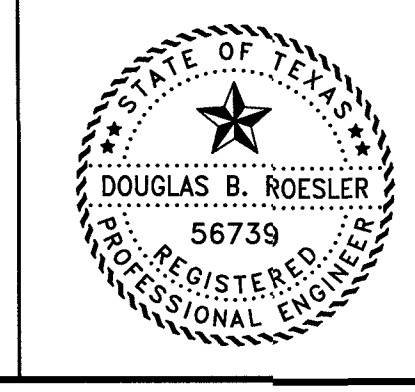
DATE

B & L

BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

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



The seal appearing on this document was authorized by Douglas B. Roesler P.E. 56739

Date: 04-18-22

OWNER:

RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057

PLAN: _____

PROFILE: _____

HORIZONTAL: _____

VERTICAL: _____

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

DRIVEWAY CONSTRUCTION DETAILS
SL-27

PROJECT NO. 14395

HYPER-CHLORINATED WATER NOTES

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

SANITARY WASTE NOTES

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

DEBRIS AND TRASH NOTES

1. ALL WASTE SOURCES AND STORAGE AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO, IN NO CASE SHALL MATERIAL AND WASTE SOURCES BE CLOSER THAN 20 FEET FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS.
2. CONSTRUCTION DEBRIS SHALL BE STORED IN A MANNER THAT MINIMIZES ITS EXPOSURE TO PRECIPITATION AND STORMWATER RUNOFF.
3. WHENEVER POSSIBLE, MINIMIZE PRODUCTION OF DEBRIS AND TRASH.
4. INSTRUCT CONSTRUCTION WORKERS IN PROPER DEBRIS AND TRASH STORAGE AND HANDLING PROCEDURES.
5. SEGREGATE POTENTIAL HAZARDOUS WASTE FROM NON-HAZARDOUS CONSTRUCTION SITE DEBRIS.
6. PROHIBIT LITTERING BY WORKERS AND VISITORS.
7. POLICE SITE DAILY FOR LITTER AND DEBRIS.
8. ENFORCE SOLID WASTE HANDLING AND STORAGE PROCEDURES.
9. IF FEASIBLE, RECYCLE CONSTRUCTION AND DEMOLITION DEBRIS SUCH AS WOOD, METAL, AND CONCRETE.
10. TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AT REGULAR INTERVALS THAT ARE SCHEDULED TO EMPTY CONTAINERS WHEN THEY ARE 90 PERCENT FULL OR MORE FREQUENTLY.
11. GENERAL CONSTRUCTION DEBRIS MAY BE HAULED TO A LICENSED CONSTRUCTION DEBRIS LANDFILL.
12. WASTE AND RECYCLING HAULERS/FACILITIES APPROVED BY THE LOCAL MUNICIPALITY.
13. CHIPPING OF TREES AND BRUSH FOR USE SUCH AS MULCH IS PREFERRED ALTERNATIVE TO OFFSITE DISPOSAL.
14. NO WASTE, TRASH, OR DEBRIS SHALL BE BURIED, BURNED OR OTHER WISE DISPOSED OF ONSITE.
15. ALL WASTE MATERIALS, DEBRIS AND TRASH CONTAINERS WHICH MATERIALS ARE ACCEPTABLE. FOREMAN AND/OR CONSTRUCTION SUPERVISOR SHALL MONITOR ONSITE SOLID WASTE STORAGE AND DISPOSAL PROCEDURES DAILY.

CONCRETE SAWCUTTING WASTE NOTES

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

SPILL AND LEAK RESPONSE NOTES

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

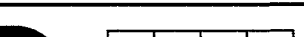

SUBGRADE STABILIZATION NOTES

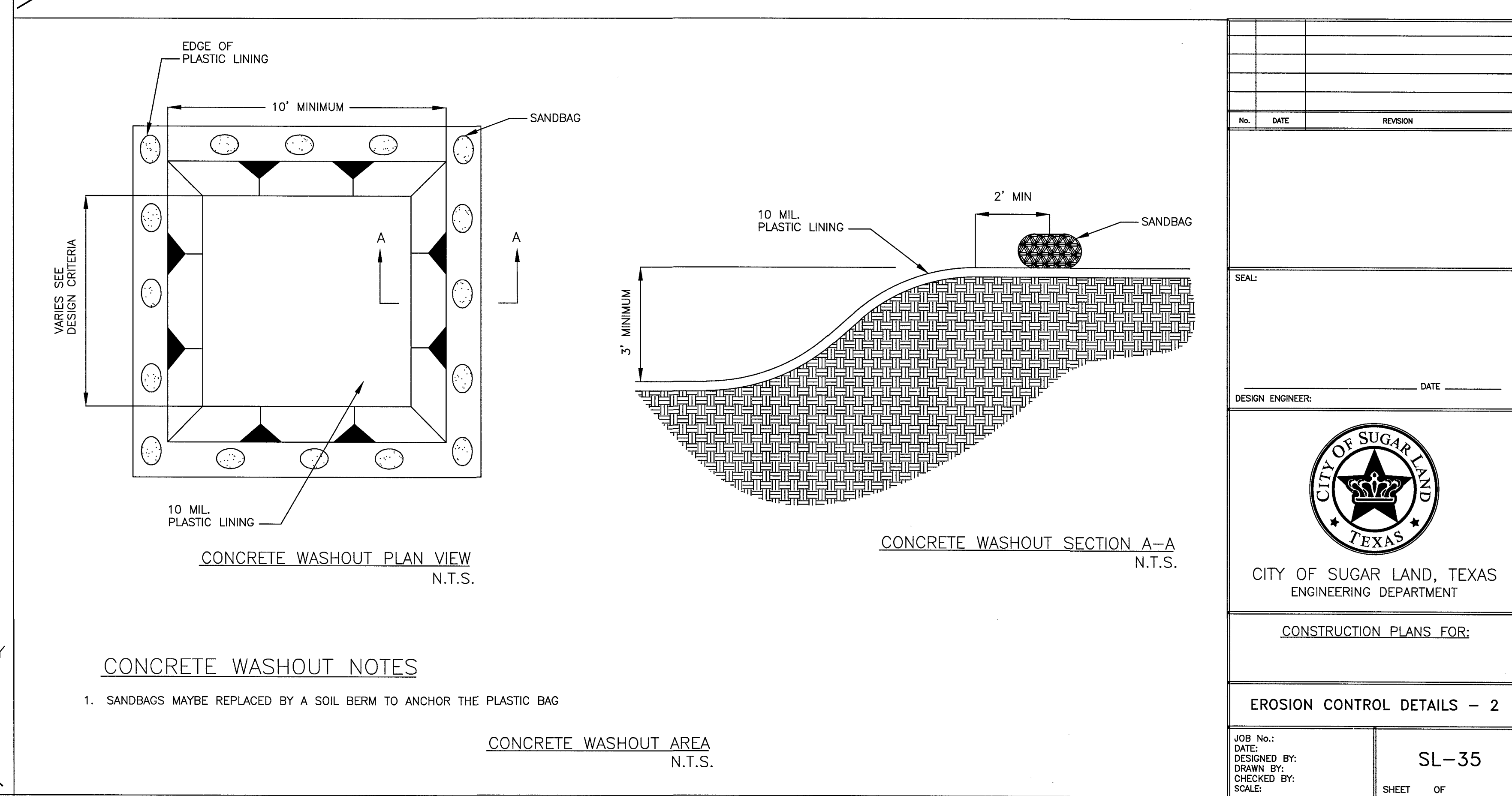
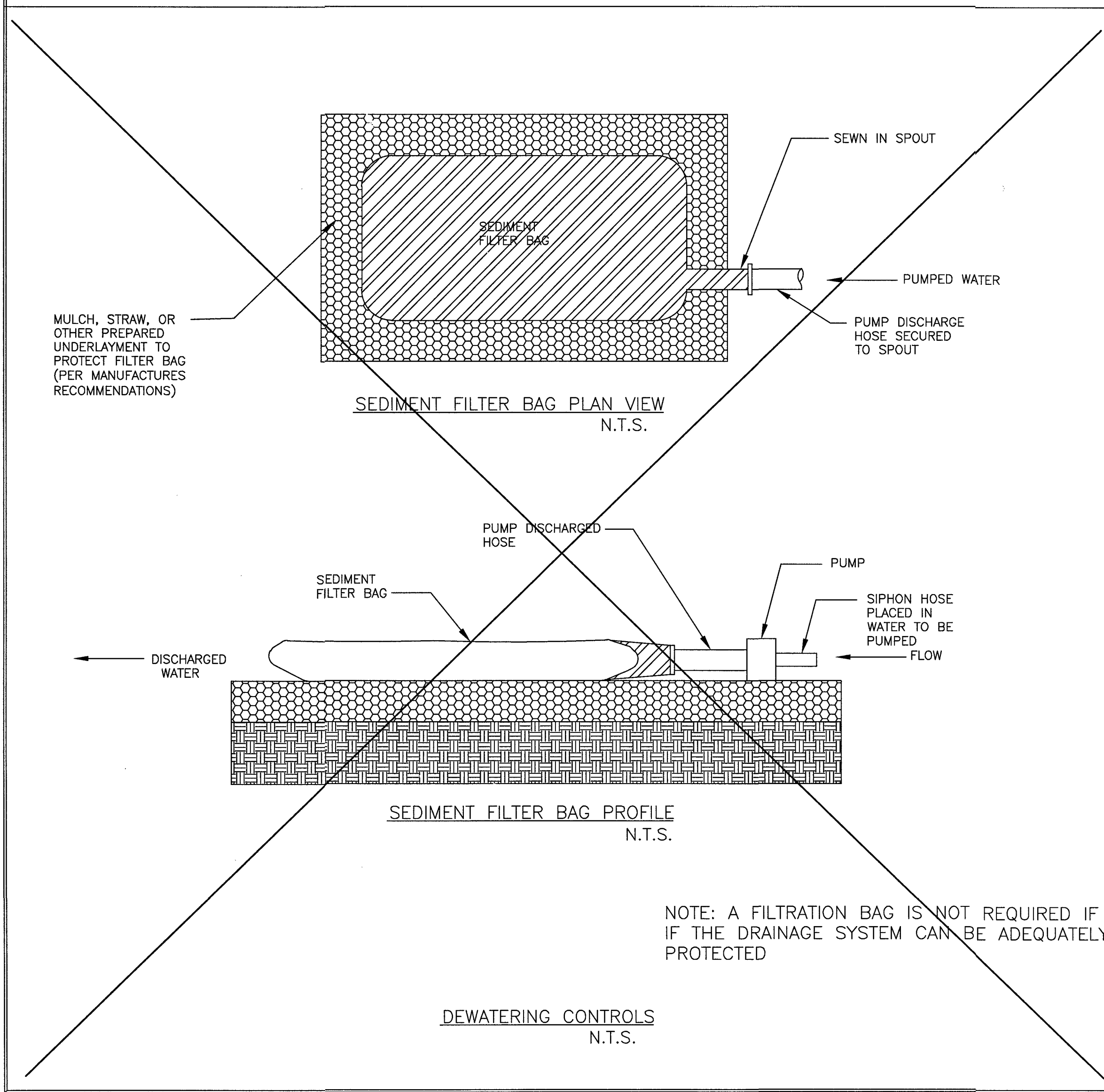
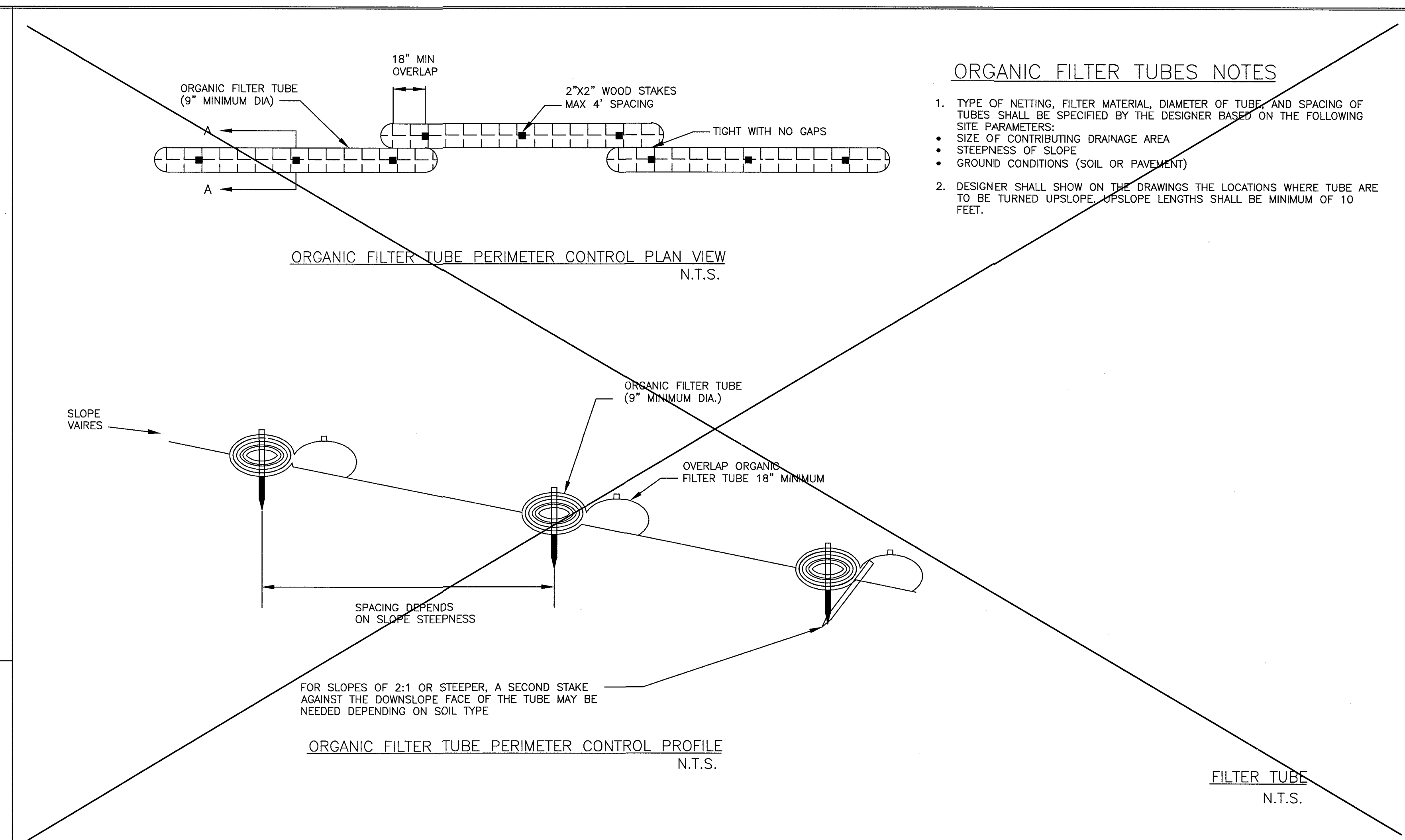
1. MINIMIZE THE DISCHARGE OF THE CHEMICAL STABILIZERS BY THE CONTRACTOR LIMITING THE AMOUNT OF STABILIZING AGENT ONSITE TO THAT WHICH CAN BE THOROUGHLY MIXED AND COMPACTED BY THE END OF EACH WORKDAY.
2. STABILIZERS SHALL BE APPLIED AT RATES THAT RESULT IN NO RUN OFF.
3. STABILIZATION SHALL NOT OCCUR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

SANDBLASTING WASTE NOTES

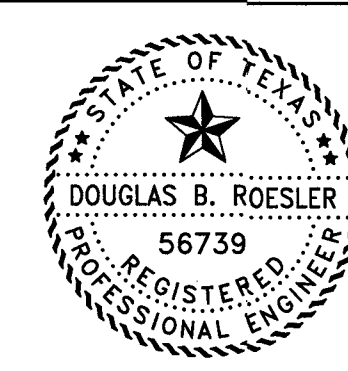
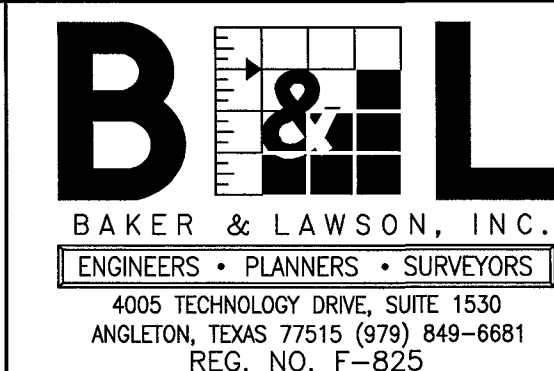
1. THE CONTRACTOR SHOULD BE REQUIRED TO DESIGNATE THE SITE SUPERINTENDENT, FOREMAN, OR OTHER PERSON WHO IS RESPONSIBLE FOR SANDBLASTING TO ALSO BE RESPONSIBLE FOR SANDBLASTING WASTE MANAGEMENT.
2. PROHIBIT THE DISCHARGE OF SANDBLASTING WASTE.
3. USE ONLY INERT, NON-DEGRADABLE SANDBLAST MEDIA.
4. USE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

RECORD DRAWING


				DESIGNED <u>DR</u>	 <p>BAKER & LAWSON, INC. ENGINEERS • PLANNERS • SURVEYORS 4005 TECHNOLOGY DRIVE, SUITE 1530 ANGLETON, TEXAS 77515 (979) 849-6681 REG. NO. F-825</p>	 <p>The seal appearing on this document was authorized by Douglas B. Roesler P.E. 56739</p> <p><i>[Signature]</i> Date: <u>04-18-22</u></p>	<p>OWNER:</p> <p>RIVERWAY PROPERTIES 6115 SKYLINE DR. STE A. HOUSTON, TEXAS 77057</p>	<p>PLAN: _____</p> <p>PROFILE: _____</p> <p>HORIZONTAL: _____</p> <p>VERTICAL: _____</p>	<p>RIVERWOOD RANCH SUBDIVISION SECTION 2 A 78 AC, 109-LOT SUBDIVISION ANGLETON, TEXAS 77515</p>	<p>GENERAL EROSION CONTROL NOTES SL-33</p>
				DRAWN <u>BT</u>						
				CHECKED _____						
				DATE _____						
NO.	DATE	DESCRIPTION		APPROVED						
REVISIONS										



NO.	DATE	DESCRIPTION	APPROVAL
REVISIONS			



The seal appearing on
this document was
authorized by
Douglas B. Roesler
P.E. 56739



Date: 04-18-22

OWNER:
**RIVERWAY PROPERTIES
6115 SKYLINE DR. STE A.
HOUSTON, TEXAS 77057**

PLAN: _____

PROFILE: _____

HORIZONTAL: _____

VERTICAL: _____

RIVERWOOD RANCH SUBDIVISION
SECTION 2
A 78 AC, 109-LOT SUBDIVISION
ANGLETON, TEXAS 77515

EROSION CONTROL
DETAILS - 2
SL-35

ENGINEER'S CERTIFICATE OF COMPLETION

Project: RIVERWOOD RANCH SUBDIVISION, SECTION 2
DOWNING STREET
ANGLETON TEXAS

Owner: JOHN SANTASIERO
RIVERWAY PROPERTIES
1027 YALE STREET
HOUSTON, TEXAS 77008

Type of Facilities Constructed:
PAVING, GRADING, UTILITIES AND DRAINAGE
FOR RIVERWOOD RANCH, SECTION 2

Contractor: JAMES MICHAEL MURPHY
MATULA & MATULA CONSTRUCTION, INC.
122 WEST WAY SUITE 325
LAKE JACKSON TEXAS 77566
JMMURPHY@MATULAINC.COM
979-480-0030

Consulting Engineer: DOUGLAS B. ROESLER, P.E.
BAKER & LAWSON ENGINEER
300 E. CEDAR STREET
ANGLETON TX 77515
droesler@bakerlawson.com
979-849-6681

I, DOUGLAS B. ROESLER, P.E., hereby certify that I am a Registered Professional Engineer in the State of Texas. I certify this project was completed on the 12th day of April 2022 at the listed address above. The project was completed in conformance to the plans and specifications and in my professional opinion, is in compliance with the City of Angleton's Approved Plans. The project is ready for Final Inspection by the City Engineer. The "As-Built" drawings will be furnished to the office of the City Engineer of the City of Angleton within 15 calendar days of the date this certification is signed.

Signature: 

Date: 04-18-22

Matula & Matula Construction, Inc.

April 7, 2022

Riverway Capital Partners
1027 Yale Street
Houston, TX 77008

In accordance with the plans and specifications of the **Riverwood Ranch Subdivision Section 2** project located in **Angleton, TX** in **Brazoria County**, Matula & Matula Construction, Inc. hereby warrants this project for a period of twelve months (1 year) with the effective date beginning the 7th Day of April, 2022 and concluding on the 6th day of April, 2023.

Sincerely,

James Michael Murphy

Matula & Matula Construction, Inc.

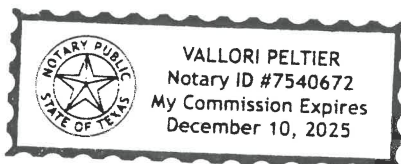
STATE OF TEXAS

COUNTY OF BRAZORIA

Subscribed and sworn to before me this 7th day of April, 2023. Notary Public in and for Brazoria County

My commission expires: 12-10-25

Signature: _____



Building on a Foundation of Trust Since 1994



Bond No. 3964563

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS, That we, Matula & Matula Construction Inc
122 West Way, Suite 325, Lake Jackson, TX 77566 as Principal,
 and the **GREAT AMERICAN INSURANCE COMPANY**, a corporation organized under the laws of the State of
 Ohio and duly authorized to transact business in the State of TX
 as Surety, are held and firmly bound unto RPDC, Inc.
 as Oblige, in the sum of
One Million Seven Hundred Seventy Five Thousand Eight Hundred Five & 97/100--- (\$1,775,805.97) DOLLARS,
 for the payment whereof well and truly to be made, and Principal and the said Surety, bind themselves, their heirs,
 executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

SIGNED, sealed and dated this 7th day of April, 2022.

WHEREAS the Principal and the Oblige have entered into a written agreement dated the _____
 day of _____, _____, for Riverwood Ranch Subdivision, Angleton, TX 77515

the terms of which agreement were completed and accepted the _____ day of _____,
 and

WHEREAS the Principal has given a One (1) year maintenance guarantee under said agreement
 or otherwise against defective materials and workmanship.

NOW, THEREFORE, the condition of this obligation is such that if the Principal shall well and truly comply
 with such guarantee, then this obligation to be void; otherwise it shall remain in full force.

PROVIDED that no right of action shall accrue on this bond to or for the use of any person or corporation
 other than the Oblige named herein; and

PROVIDED FURTHER that the Surety shall have no liability under this bond unless the Oblige shall give
 written notice of claim of the Principal's failure to comply with such guaranteed to the Surety at its Administrative
 Office at 301 E. Fourth Street, Cincinnati, Ohio 45202 such notice to be given within the One (1) year
 year maintenance period.

Matula & Matula Construction Inc

By: *James Michael Murphy*
 Principal

GREAT AMERICAN INSURANCE COMPANY

By: *Kevin McQuain*
 Kevin McQuain Attorney-in-Fact



GREAT AMERICAN INSURANCE COMPANY®**Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740**

The number of persons authorized by
this power of attorney is not more than 1

Bond No. 3964563

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, the specific bond, undertaking or contract of suretyship referenced herein; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below. The bond number on this Power of Attorney must match the bond number on the bond to which it is attached or it is invalid.

Name	Address	Limit of Power
Kevin McQuain	25025 N. I-45 Freeway, Suite 525 The Woodlands, TX 77380	\$100,000,000.00

Principal: Matula & Matula Construction Inc
Obligee: RPDC, Inc.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 7th day of April, 2022.

Attest

GREAT AMERICAN INSURANCE COMPANY



Atty L C. B.

Assistant Secretary

Mark V Vicario

Divisional Senior Vice President

MARK VICARIO (877-377-2405)

STATE OF OHIO, COUNTY OF HAMILTON - ss:

On this 7th day of April, 2022, before me personally appeared MARK VICARIO, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



SUSAN A KOHORST
Notary Public
State of Ohio
My Comm. Expires
May 18, 2025

Susan A Kohorst

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, STEPHEN C. BERAHA, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this 7th day of April, 2022.



Atty L C. B.

Assistant Secretary



**Great American Insurance Company of New York
Great American Alliance Insurance Company
Great American Insurance Company**

IMPORTANT NOTICE:

To obtain information or make a complaint:

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at:

1-800-252-3439

You may write the Texas Department of Insurance at:

P.O. Box 149104
Austin, TX 78714-9091
FAX: 1-512-490-1007

Your notice of claim against the attached bond may be given to the surety company that issued the bond by sending it by certified or registered mail to the following address:

Mailing Address: Great American Insurance Company
P.O. Box 2119
Cincinnati, Ohio 45202

Physical Address: Great American Insurance Company
301 E. Fourth Street
Cincinnati, Ohio 45202

You may also contact the Great American Insurance Company Claim office by:

Fax: 1-888-290-3706
Telephone: 1-513-369-5091
Email: bondclaims@gaic.com

PREMIUM OR CLAIM DISPUTES:

If you have a dispute concerning a premium, you should contact the agent first. If you have a dispute concerning a claim, you should contact the company first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

ATTACH THIS NOTICE TO YOUR BOND:

This notice is for information only and does not become a part or condition of the attached document.

**CONSENT OF SURETY
TO FINAL PAYMENT**

AIA Document G707

Bond No. 3964563

OWNER
ARCHITECT
CONTRACTOR
SURETY
OTHER

Item 5.

TO OWNER:
(Name and address)

RPDC, Inc.

ARCHITECT'S PROJECT NO.:

CONTRACT FOR: General Construction

PROJECT:
(Name and address)

Riverwood Ranch Subdivision, Angleton, TX 77515

CONTRACT DATED:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

Great American Insurance Company
301 East Fourth Street
Cincinnati, OH 45202

, SURETY,

on bond of
(Insert name and address of Contractor)

Matula & Matula Construction Inc
122 West Way, Suite 325
Lake Jackson, TX 77566

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety of
any of its obligations to
(Insert name and address of Owner)

RPDC, Inc.

, OWNER,

as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date: April 7, 2022
(Insert in writing the month followed by the numeric date and year.)

Attest:
(Seal):

Belinda Rodriguez



Great American Insurance Company

(Surety)

By:

(Signature of authorized representative)

Kevin McQuain

Attorney-in-Fact

(Printed name and title)

GREAT AMERICAN INSURANCE COMPANY®**Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740**

The number of persons authorized by
this power of attorney is not more than **1**

Bond No. 3964563

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, the specific bond, undertaking or contract of suretyship referenced herein; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below. The bond number on this Power of Attorney must match the bond number on the bond to which it is attached or it is invalid.

Name	Address	Limit of Power
Kevin McQuain	25025 N. I-45 Freeway, Suite 525 The Woodlands, TX 77380	\$100,000,000.00

Principal: Matula & Matula Construction Inc
Obligee: RPDC, Inc.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 7th day of April, 2022.

Attest

GREAT AMERICAN INSURANCE COMPANY



Atty L C. B.
Assistant Secretary

Mark V Vicario
Divisional Senior Vice President

MARK VICARIO (877-377-2405)

STATE OF OHIO, COUNTY OF HAMILTON - ss:

On this 7th day of April, 2022, before me personally appeared MARK VICARIO, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



SUSAN A KOHORST
Notary Public
State of Ohio
My Comm. Expires
May 18, 2025

Susan A Kohorst

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, STEPHEN C. BERAHA, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this 7th day of April, 2022.



Atty L C. B.
Assistant Secretary

APPLICATION FOR PAYMENT NO. 6 - FINAL

TO OWNER:

RIVERWAY CAPITAL PARTNERS *Riverwood Ranch LLC*

FROM CONTRACTOR:

Matula & Matula Construction, Inc., 122 West Way Suite 325, Lake Jackson, TX 77566

PROJECT:

Riverwood Ranch Subdivision Section 2

PERIOD FROM

04/11/22

TO:

04/11/22

ITEM NO. & DESCRIPTION		CONTRACT QUANTITY		COMPLETED QUANTITY			UNIT PRICE	TOTAL VALUE COMPLETED WORK
				FROM PREVIOUS APPLICATIONS	THIS PERIOD	TOTAL COMPLETED		
1	Clearing and Grubbing (Includes Removing 4 Trees and Barbed Wire Fence)	19.79	AC	19.79	-	19.79	\$ 1,580.10	\$ 31,270.18
2	Lot Grading (See Sheet 22)	11298	CY	11,298.00	-	11,298.00	\$ 4.20	\$ 47,451.60
3	Sawcut Full Depth and Remove Curb and Concrete (18" Wide)	36	LF	91.00	-	91.00	\$ 20.00	\$ 1,820.00
4	6" Lime Stabilized Subgrade	12333	SY	13,822.00	-	13,822.00	\$ 2.30	\$ 31,790.60
5	Lime (7% by Weight)	194.5	Ton	241.00	-	241.00	\$ 202.80	\$ 48,874.80
6	Concrete Pavement 6" Thick	11511	SY	12,639.00	-	12,639.00	\$ 52.00	\$ 657,228.00
7	Concrete Curb (4" to 6")(Includes 35' Doweled on Curb at Drive Removed on Hospital)	7435	LF	7,435.00	-	7,435.00	\$ 5.40	\$ 40,149.00
8	Concrete Sidewalk (Includes 25' of Replacement at Drive Removed on Hospital)	1525	SF	1,525.00	-	1,525.00	\$ 10.80	\$ 16,470.00
9	Concrete Wheelchair Ramps	8	EA	8.00	-	8.00	\$ 3,080.80	\$ 24,646.40
10	Inlets (Type C-L = 5')	13	EA	13.00	-	13.00	\$ 2,686.70	\$ 34,927.10
11	Inlets (Type C-L = 10')	3	EA	3.00	-	3.00	\$ 4,909.50	\$ 14,728.50
12	Storm Sewer Manholes (2 pipes)	3	EA	3.00	-	3.00	\$ 3,336.00	\$ 10,008.00
13	Storm Sewer Manholes (3+ pipes)	1	EA	1.00	-	1.00	\$ 3,889.50	\$ 3,889.50
14	Storm Sewer Manholes (2 pipes)(1 Joint D.I. San. Sew.)	1	EA	1.00	-	1.00	\$ 4,508.50	\$ 4,508.50
15	Sanitary Sewer Manhole	13	EA	13.00	-	13.00	\$ 3,021.30	\$ 39,276.90
16	Sanitary Sewer Manhole (Extra Depth >8')	6.71	LF	6.71	-	6.71	\$ 206.10	\$ 1,382.93
17	18" Storm Sewer (Under Pavement)	132	LF	132.00	-	132.00	\$ 66.40	\$ 8,764.80
18	24" Storm Sewer (Under Pavement)	155	LF	155.00	-	155.00	\$ 81.50	\$ 12,632.50
19	30" Storm Sewer (Under Pavement)	238	LF	238.00	-	238.00	\$ 103.60	\$ 24,656.80
20	36" Storm Sewer (Under Pavement)	160	LF	160.00	-	160.00	\$ 146.20	\$ 23,392.00
21	30" Storm Sewer (Grass)	687	LF	687.00	-	687.00	\$ 100.40	\$ 68,974.80
22	6" Sanitary Sewer (5' to 7' Depth)	593	LF	593.00	-	593.00	\$ 39.30	\$ 23,304.90
23	8" Sanitary Sewer (5' to 7' Depth)	1614	LF	1,614.00	-	1,614.00	\$ 44.50	\$ 71,823.00
24	8" Sanitary Sewer (7' to 9' Depth)	310	LF	310.00	-	310.00	\$ 48.90	\$ 15,159.00
25	8" Sanitary Sewer (9' to 11' Depth)	571	LF	571.00	-	571.00	\$ 66.60	\$ 38,028.60
26	Sanitary Sewer Plugs (All Diameters)	2	EA	2.00	-	2.00	\$ 185.20	\$ 370.40
27	Sanitary Sewer Service (Short-Single)	11	EA	11.00	-	11.00	\$ 1,259.40	\$ 13,853.40
28	Sanitary Sewer Service (Short-Double)	27	EA	29.00	-	29.00	\$ 1,266.90	\$ 36,740.10
29	Sanitary Sewer Service (Long-Double)	21	EA	21.00	-	21.00	\$ 1,918.10	\$ 40,280.10
30	Sanitary Sewer Service (Long-Single)	10	EA	11.00	-	11.00	\$ 1,871.60	\$ 20,587.60
34	6" Fire Hydrant Lead (6' Long)	6	EA	6.00	-	6.00	\$ 242.40	\$ 1,454.40

35	8" Waterline	3380	LF	3,380.00	-	3,380.00	\$ 36.30	\$ 122,694.00
36	8" West Connection	2	EA	2.00	-	2.00	\$ 1,110.90	\$ 2,221.80
37	Fittings (D.I. w/ M.J. Restraints)	2.4	Ton	0.94	-	0.94	\$ 10,330.70	\$ 9,710.86
38	2" Blow Off Valve	1	EA	2.00	-	2.00	\$ 781.40	\$ 1,562.80
39	Water Line Service (Short-Single)	11	EA	11.00	-	11.00	\$ 783.90	\$ 8,622.90
40	Water Line Service (Short-Double)	19	EA	19.00	-	19.00	\$ 940.70	\$ 17,873.30
41	Water Line Service (Long-Single)	12	EA	13.00	-	13.00	\$ 1,008.90	\$ 13,115.70
42	Water Line Service (Long-Double)	30	EA	29.00	-	29.00	\$ 1,130.00	\$ 32,770.00
43	6" Gate Valve w/ Box	6	EA	6.00	-	6.00	\$ 1,102.10	\$ 6,612.60
44	8" Gate Valve w/ Box	12	EA	12.00	-	12.00	\$ 1,577.20	\$ 18,926.40
45	Fire Hydrant	6	EA	6.00	-	6.00	\$ 2,856.10	\$ 17,136.60
46	Thermoplastic Pavement Marking (4" Yellow Solid)	250	LF	250.00	-	250.00	\$ 2.80	\$ 700.00
47	Thermoplastic Pavement Markings (8" White Solid)	296	LF	296.00	-	296.00	\$ 7.30	\$ 2,160.80
48	Thermoplastic Pavement Markings (Arrow White) Solid	4	EA	4.00	-	4.00	\$ 157.30	\$ 629.20
49	Deep Trench Construction (Sanitary Sewer 5' to 7')	2207	LF	2,207.00	-	2,207.00	\$ 0.90	\$ 1,986.30
50	Deep Trench Construction (Sanitary Sewer Over 7')	881	LF	881.00	-	881.00	\$ 0.90	\$ 792.90
51	Deep Trench Construction (Storm Sewer 5' to 7')	1085	LF	1,085.00	-	1,085.00	\$ 0.90	\$ 976.50
52	Deep Trench Construction (Storm Sewer Over 7')	36	LF	36.00	-	36.00	\$ 0.90	\$ 32.40
53	General Conditions	1	LS	1.00	-	1.00	\$ 65,000.00	\$ 65,000.00
54	Construction Staking	1	LS	1.00	-	1.00	\$ 25,000.00	\$ 25,000.00
55	Type III Barricades	2	EA	2.00	-	2.00	\$ 932.40	\$ 1,864.80
56	Street Signs	6	EA	6.00	-	6.00	\$ 509.50	\$ 3,057.00
57	Storm Water Pollution Prevention Plan	1	LS	1.00	-	1.00	\$ 12,258.70	\$ 12,258.70
58	4" Schedule 40 PVC Conduits	120	LF	120.00	-	120.00	\$ 13.80	\$ 1,656.00
	SUBTOTAL							\$ 1,775,805.97

ALTERNATIVE ITEMS

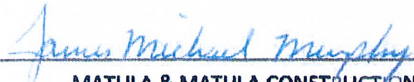
31	Wellpointing (Sanitary Sewer)	553	LF		-	-	\$ 37.30	\$ -
32	Class A Bedding Material (8" = 4.11 c.f./ft., 10" = 4.63 c.f./ft.)	84.2	CY		-	-	\$ 55.10	\$ -
33	Installation of Geotechnical fabric for Wet Sand	553	LF		-	-	\$ 5.00	\$ -
	SUBTOTAL							\$ -

Riverwood Ranch Subdivision Section 2

Original Contract	\$ 1,713,212.19	Value of Work Performed to Date	\$ 1,775,805.97
Plus Addition		Plus Materials Stored Close of Period	\$ -
Less Deduction	\$ -	Net Amount Earned to Date	\$ 1,775,805.97
Adjusted Contract	\$ 1,713,212.19	Less 10% Retainage	\$ -
		Subtotal	\$ 1,775,805.97
Rain Days/Too Wet to Work		Less Previous Estimates	\$ 1,598,225.37
		Amount Due on Contract this Est.	\$ 177,580.60

The Contractor's signature here certifies that, to the best of their knowledge, this document accurately reflects the work completed and billed this Application

AUTHORIZING SIGNATURE:


MATULA & MATULA CONSTRUCTION INC.

DATE:

04/11/22

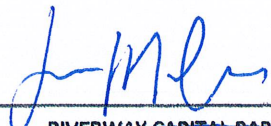
RECOMMENDED BY:


BAKER & LAWSON, INC.

DATE:

04/19/22

APPROVED BY:


RIVERWAY CAPITAL PARTNERS
Riverwood Ranch LLC

DATE:

4/19/22

Steve Matula

From: Nathan Francis <Nathan.Francis@brightview.com>
Sent: Friday, April 15, 2022 7:30 AM
To: Brian Jarrard
Cc: Chris Mink
Subject: Riverwood Ranch

Hello Brian,

Thank you for allowing Brightview Tree Care to earn an opportunity to care for your trees. We have assessed the six Live Oaks along N Downing St and below are our recommendations.

- Observations:
 - No visual die back caused from fill dirt at time of inspection
 - Mechanical damage to trees from equipment
 - 6 – 12” of fill dirt covers nearly 50% of root zone
 - Due to location of the road, the root systems are most active on East side of the tree
- Recommendations:
 - Raise canopies to allow equipment to remove fill dirt
 - Remove fill dirt outside the dripline of six trees
 - Recommended that a ISA Certified Arborist be onsite during the removal of fill dirt
 - Utilize Air Spade to Air Till compacted soil around root system
 - Recommended to improve drainage to prevent standing water around trees
 - Reassess trees in 6 months

If you find our proposal acceptable, you can expedite the scheduling of your tree care by clicking on the 'Approve' button in the upper right hand corner of the proposal.

- Crown Raise - \$2,764.67 - <https://app.arbor-note.com/index.cfm/proposal/58D61739-0E61-4C81-B0AEDA6C42E1C21F/view>
 - Raise canopies to 14 – 16 feet
- Air Till Soil - \$4,536.76 - <https://app.arbor-note.com/index.cfm/proposal/71DE4257-373F-4159-8E50E241413D3F71/view>
 - Decompaction of soil caused from heavy equipment
 - Loosen and aerate soil to allow air/gas exchange
- Deep Root Fertilize (July) - \$2,110.88 - <https://app.arbor-note.com/index.cfm/proposal/9B017F72-C4B6-4ABD-91A93ED05B1FA16A/view>



April 11, 2022

Mr. Walter Reeves
Director of Development and Planning
City of Angleton
121 S. Velasco
Angleton, Texas 77515

Re: Public Acceptance Process - Riverwood Ranch Subdivision, Section 2

Dear Mr. Reeves,

Riverway Properties are requesting a waiver for the following Section of the City of Angleton Land Development Code (LDC):

Section 23-98. K. 1. Preliminary Acceptance to make this a final acceptance with a 1 year maintenance bond.

After completion of the construction of the public improvements in a subdivision a field inspection is conducted and a "punch list" of repairs or corrections of deficiencies is prepared for the construction contractor. In the past, after resolution of the "punch list" items, the City accepted the improvements with a one-year maintenance bond.

With the adoption of the Land Development Code in 2018 the public improvement acceptance process changed from a one-step process to a two-step process. The acceptance process described in the LDC is:

1. Preliminary acceptance with a minimum one-year maintenance bond as an administrative act by the City Manager after recommendation by the City Engineer; and
2. Final acceptance (with a one-year maintenance bond) by City Council after recommendation from the City Manager and City Engineer at least one year after preliminary acceptance.

The developer of Riverwood Ranch Subdivision, Section 2 is requesting a waiver of Section 23-98.K.1 Preliminary Acceptance and that City Council accept the public improvements with a one-year maintenance bond.

Prior to the adoption of the 2018 Land Development Code, the Contractor's one year maintenance bond was all that was required before final acceptance of the public improvements by the City.

If you have any questions or require further information please contact Baker & Lawson, Inc.

Sincerely,

Douglas B. Roesler, P.E.

President

(File: 14395/Maintenance Waiver)

DOUGLAS B. ROESLER, P.E. - Principal Engineer
4005 TECHNOLOGY DRIVE, SUITE 1530, ANGLETON, TEXAS 77515
(979) 849-6681 • Fax (979) 849-4689

RIVERWOOD RANCH, SECTION 2

HYDROSTATIC TEST FOR WATER LINE-FORCE MAIN P-PASS F-FAIL

LOCATION	DATE	START TIME	STOP TIME	INITIAL PRESS.	FINAL PRESS.	INITIAL METER READING	FINAL METER READING	LEAKAGE MEASURED	LEAKAGE ALLOWED	RESULTS
BENNETT ST. AMY ST.	1/18/22	7:40	12:50	153	153	025536.04 025536.04		-0-	4.15	PASS

TABLE 1 - DUCTILE IRON
Allowable Leakage per 1000 ft. of Pipeline - gph*

Average Test	Nominal Pipe Diameter				
Pressure psi	4	6	8	10	12
200	0.43	0.64	0.85	1.06	1.28
175	0.40	0.59	0.80	0.99	1.19
150	0.37	0.55	0.84	0.92	1.10
125	0.34	0.50	0.67	0.84	1.01
100	0.30	0.45	0.60	0.75	0.90

TABLE 2 - P.V.C.
Allowable Leakage per 1000 ft. of Pipeline - gph*

Average Test	Nominal Pipe Diameter				
Pressure psi	4	6	8	10	12
100	0.27	0.41	0.54	0.68	0.81
150	0.33	0.50	0.66	0.83	0.99
200	0.38	0.57	0.76	0.96	1.15

Bake & Lawson, Inc.

INSPECTOR

JOB NO.

SM

14395

BENNETT ST
STA 18+75 TO 26+41
AMY ST
- 0+20 TO 7+50
1571' x 0.66
1000 x 4 =
4.15
GALLON

RIVERWOOD RANCH, SECTION 2

Item 5.

HYDROSTATIC TEST FOR WATER LINE-FORCE MAIN P-PASS F-FAIL

LOCATION	DATE	START TIME	STOP TIME	INITIAL PRESS.	FINAL PRESS.	INITIAL METER READING	FINAL METER READING	LEAKAGE MEASURED	LEAKAGE ALLOWED	RESULTS
BENNETT LOOP AND CULLEN ST.	1/6/22	8:04	12:10	155	155	0255324.0	0255324.0	- 0 -	4.75	PASS

TABLE 1 - DUCTILE IRON
Allowable Leakage per 1000 ft. of Pipeline - gph*

Average Test	Nominal Pipe Diameter				
Pressure psi	4	6	8	10	12
200	0.43	0.64	0.85	1.06	1.28
175	0.40	0.59	0.80	0.99	1.19
150	0.37	0.55	0.84	0.92	1.10
125	0.34	0.50	0.67	0.84	1.01
100	0.30	0.45	0.60	0.75	0.90

TABLE 2 - P.V.C.
Allowable Leakage per 1000 ft. of Pipeline - gph*

Average Test	Nominal Pipe Diameter				
Pressure psi	4	6	8	10	12
100	0.27	0.41	0.54	0.68	0.81
150	0.33	0.50	0.66	0.83	0.99
200	0.38	0.57	0.76	0.96	1.15

$$\frac{1797' \times 0.66}{1000} \times 4 \text{ hr} = 4.75 \text{ GALLON}$$

BENNETT LOOP
STA 1+45 TO 18+75
CULLEN STREET
STA 0+23 TO 1+95

Bake & Lawson, Inc.

INSPECTOR Sm

JOB NO. 14395

Account Number: **320** TCEQ Form 10625 Rev. 8/2017

Water System Identification & Sample Collection Information (Please type or use block print)

Public Water System ID: TX

Public Water System Name: City of Angleton (Pinewood)

County: Brazoria

Name: MATULA & MATULA CONSTRUCTION INC.

Address: 122 WEST WAY, STE 325

City: LAKE JACKSON

State: TEXAS

Phone #: 979-480-0030 Zip Code: 77566 Fax #: 979-480-0060

Signature: Charles J Swain Operator License #: Charles J Swain

Signature: Charles J Swain Other: Contractor

TCEQ LAB ID: 48005

Test Results must meet all accreditation / certification requirements unless stated otherwise.

NEAP ACCREDITED

Brazoria County Health Dept Water Lab

409 East Orange Street
Angleton, TX 77515
979-864-1628 979-388-1628
281-756-1628
Fax: 979-849-1678
Email: WaterLab@brazoria-county.com

SHADED AREA FOR LABORATORY USE ONLY

Sample Iced? ☐ Yes ☒ No

Relinquished By (Sampler): Charles Swain Date / Time: 4-7-22 1:45

Received By (Courier, if applicable):

Relinquished By (Courier):

Temperature: 24.1 °C

Corrected Temp: 23.9

Lab Comments: Madyn Thompson

Tested By: Madyn Thompson Date / Time: 4-7-22 1:46

Lab Results Approved: Madyn Thompson Date / Time: 4-7-22 2:40

Lab Results Approved: Madyn Thompson Date / Time: 4-8-22 2:42

Sample Identification/Location Use Specific Address / Location Identified in Sample Siting Plan	Sample Type: (X one)				Collected			Chlorine Residual Circle "F" for Free, "T" for Total, (mg/L)	Rejection Code (if applicable) - Please Resubmit	Method: Chlorine (Total Coliform) E. coli				Laboratory Sample ID Number
	Raw Well	Special	Repl	Distribution	Date	Time	Replacement			Absent	Present	Absent	Present	
STA. 6+80 AMY Str.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	7:20	1:16	1.2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2022-02132
SERVICE END of Street	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	7:20	1:24	1.3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2022-02133
Sta. 0+00 AMY Str.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lot 16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Noted
23-22
Account

Account: 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-104

Riverwood Ranch
Section II

2/01/22

SANITARY SEWER LOW PRESSURE TEST

LOCATION	TIME MEASURED	START TIME	INITIAL PRESSURE	STOP TIME	FINAL PRESSURE	P/F	COMMENTS
MH _{ext} - MH ₁	8 mins	8:30	5 psi	8:33	4.5 psi	P	φ=8" 170 ft
MH ₁ - MH ₂	10 mins	9:00	3.5 psi	9:03	3.0 psi	P	φ 6" 400 ft
MH ₃ - MH ₄	8 mins	9:27	3.5 psi	9:30	9.30 psi	P	φ 6" 176 ft
MH ₄ - MH ₅	8 mins	9:40	5 psi	9:43	4.5	P	φ 8" 92 ft
MH ₆ - MH ₅	10 mins	10:15	5 psi	10:18	4.8	P	φ 8" 410 ft
MH ₆ - MH _{ext}	10 mins	10:40	5 psi	10:43	4.5	P	φ 8" 320 ft
MH _{ext} - MH ₁₃	8 mins	11:00	5 psi	11:03	4.8	P	φ 8" 140 ft
MH ₁₃ - MH ₁₂	8 mins	11:10	5 psi	11:13	4.8	P	φ 8" 88 ft
MH ₁₁ - MH ₁₂	8 mins	11:23	5 psi	11:26	4.5	P	φ 8" 288 ft
MH ₁₁ - MH ₁₀	8 mins	11:35	5 psi	11:38	4.5	P	φ 8" 32 ft
MH ₉ - MH ₁₀	3 mins	12:57	5 psi	13:00	5 psi	P	φ 8" 202 ft
MH ₈ - MH ₉	10 mins	13:20	5 psi	13:23	4.5 psi	P	φ 8" 305 ft
MH ₈ - MH ₇	8 mins	13:40	5 psi	13:43	4.5 psi	P	φ 8" 87 ft
MH ₇ - Clean out	8 mins	13:50	5 psi	13:53	5 psi	P	
MH ₉ - Clean out	3 mins	13:05	5 psi	13:08	4.8	P	

P = Pass F = Fail

[illegible]

INSPECTOR D.C.

JOB No. 14395

MANHOLE VACUUM TEST

P = Pass F = Fail

BAKER & LAWSON, INC.

Sm

14395

Riverwood Ranch II

PN

~~14395~~
14395

MANHOLE VACUUM TEST

P = Pass F = Fail

Item 5.

M H No.	LOCATION	DATE	RESULTS	START TIME	START VACUUM	STOP TIME	STOP VACUUM
MH 11		1/27/22	P	8:00	10" Hg	8:02	9.5" Hg
MH 10		1/27/22	P	8:20	10" Hg	8:22	9.5" Hg
MH 9		1/27/22	P	8:38	10" Hg	8:40	9.2" Hg
MH 8		1/27/22	P	8:55	10" Hg	8:57	9.1" Hg
MH 7		1/27/22	P	9:10	10" Hg	9:12	9.5" Hg
MH 4		2/2/22	P	9:00	10" Hg	9:03	9.5" Hg
MH 12		2/2/22	P	14:00	10" Hg	14:03	9.2" Hg
MH 3		2/8/22	P	11:44	10" Hg	11:46	9.0" Hg

BAKER & LAWSON, INC.

INSPECTOR

DK

JOB No.

14395

Trade In	Year	Current Truck	# Doors
PW-02	2011	F-150 1/2 Ton	4
PW-10	2017	Chevy 1500 1/2 Ton	4
PW-12	2011	F-350 1-Ton Crane Truck	4
PW-15	2004	Ford F-250 3/4 Ton	2
PW-24	2019	Chevy 1500 1/2 Ton	4
PW-25	2008	F-350, 1-Ton Crew Truck	2
PW-25	2008	Ford F-350 1 ton	2
PW-71	2010	Ford F150 1/2 Ton	2
PW-84	2016	F-350, 3/4 Ton	2
PR-30	2008	Ford E-350	4
PK-28	2007	Ford LCF	2
P-4	2013	Chevy Malibu	2
P-27	2012	Dodge Ram V8 4x4	4
P-30	2012	Tahoe	2
P-31	2013	Tahoe	2
P-32 (ACO3)	2013	Tahoe	2
P-33	2014	Tahoe	2
P-34	2014	Tahoe	2
P-35	2014	Tahoe	2
CE-1	2008	Ford F-150	4
CE-3	2006	Ford F-150	4
F-Util 1	2015	Ford F250	4
F-Cmd 3	2017	Ford F150 1/2 Ton	4
F-Cmd 2	2017	Ford F150 1/2 Ton	4
F- Cmd 1	2018	Ford Expeditions Max	4

Auction vs Lease		
Details	Mileage	Dept
Extended cab, regular bed	58,639	PW
Doub cab, regular bed	57,796	PW
Crew cab, Utility Bed, Tow Pkg, Diesel, Back Out Riggers, 6,000lb Crane	143,163	PW
Sincel Cab, utility bed	79,837	PW
Doubl Cab, regular bed	22,677	PW
Single Cab, Utility Bed, Tow Pkg, Diesel. Dully rear axle	25,686	PW
Single cab, flat bed	25,686	PW
Single cab, regular bed	59,407	PW
Diesel, Dully Rear Axle, Crane	154,683	PW
12 passenger van	96,174	P&R
Flat bed brush truck with removable sides	22,500	P&R
Power windows, seats, electric side mirrors, 4 new tires and spare.	46786	PD
Tow package, power windows, seats, electric side mirrors	104515	PD
power windows, seats, minor paint damage, electric side mirrors	146846	PD
power windows, power seats, minor paint damage, electric side mirrors	76436	PD
Power windows, power seats, minor paint damage, electric side mirrors	Dead Bat	PD
Power windows, seats, minor paint damage, electric side mirrors	Dead Bat	AC
Power windows, power seats, minor paint damage, electric side mirrors	111611	IT
Power windows, power seats, minor paint damage, electric side mirrors	143246	DS
FWD, no special equip	95354	DS
FWD, no special equip	86594	DS
4x4	58389	Fire
4x4	39500	Fire
4x4	28782	Fire
4x4	14486	Fire

Type	Doors	Weight
Truck	4	1 Ton
Truck	4	1 Ton
Truck	2	1.5 Ton
Truck	2	1 Ton
Truck	4	1/2 Ton
Truck	4	1/2 Ton
Truck	4	1/2 Ton
Truck	4	1/2 Ton
Truck	4	1/2 Ton
Van	4	
Truck	4	
Tahoe	4	
Tahoe	4	
Tahoe	4	
Tahoe	4	
Tahoe	4	
Tahoe	4	
Truck	4	
Van	4	
Truck	4	
Truck	4	
Truck	4	
Truck	4	
Truck	4	
Truck	4	

Extras

Utility bed, trailer/tow pkg, rear dully axkle, emergency roadside lights, diesel

Utility bed, trailer/tow pkg, rear dully axkle, emergency roadside lights, diesel

6,000 lb crane, bed style link, Utility bed, trailer/tow pkg, rear dully axkle, emergency roadside lights, diesel

Utility Bbed, diesel, roadside emergency lights

roadside emergency lights, tool boxes, trailer/tow pkg

roadside emergency lights, tool boxes, trailer/tow pkg

roadside emergency lights, tool boxes, trailer/tow pkg

roadside emergency lights, tool boxes, trailer/tow pkg

roadside emergency lights, tool boxes, trailer/tow pkg

12 passenger van-would like removable seats

Double acting electric hoist, trailer plug, hitch receiver, 7 pole RV plug

Police package

Police package

Anonymous plates

Anonymous plates

Anonymous plates

Vinyl seats

sprinter 2500 V6, 170" WB, security/safety package, back-up camera, internal ladder storage, rear AC unit, cargo
partitoin door

4x4, midsize or small truck

4x4, midsize or small truck

midsize or small

F150, Long bed 4x4-red, fire special outfit, cloth seats, bed cover, tool box,hitches

F150, Long bed 4x4-red, fire special outfit, cloth seats, bed cover, tool box,hitches

F250, 4x4, long bed, siren, cloth seats tool box, hitches

Expedition, 4x4, fire lighting, and console, cloth seats, nithc



AGENDA ITEM SUMMARY FORM

MEETING DATE: April 26, 2022

PREPARED BY: Colleen Martin

AGENDA CONTENT: The discussion and possible action on the Enterprise rental fleet program.

AGENDA ITEM SECTION: Regular Agenda

BUDGETED AMOUNT: In Budget

FUNDS REQUESTED: \$373,430; In Budget

FUND: 01-556-514

EXECUTIVE SUMMARY:

In September 2020, the city began a partnership with Enterprise to replace older fleet vehicles with new vehicles, the program includes a maintenance agreement for most city vehicles, as well as GeoTabs for GPS tracking and related risk management for each vehicle.

In February of 2021, the first lease vehicle was received, followed by an additional 34 vehicles, which were placed in the following departments: 1 Animal Services, 3 Development Services, 8 Parks and Recreation including a bus, 15 Public Works including a street sweeper, and 5 Police vehicles including a vehicle for the Chief. This decreased the city's average fleet age by 20%. During the same period, Enterprise auctioned 23 vehicles on behalf of the city which produced an estimated buyout of \$204,820, and a profit after the monthly lease cost of \$83,576.

In FY23, the city is looking to add 25 additional vehicles through the Enterprise program which will be placed in the following departments: Animal Control- 1, Parks and Rec-2, Police-5, Development Services-3, IT-1, Fire-4, and Public Works-9 (some of these are specialized vehicles that may require a longer time to receive.)

In 2023, we will trade one vehicle for each vehicle requested through the lease program, and future savings will be recognized approximately 1 year from the date of delivery; delivery is expected in December 2022/January 2023. The estimated cost of the 25 vehicles is \$373,430.00

RECOMMENDATION:

Staff recommends the continuation of the Enterprise program with the addition of 25 vehicles to be ordered by the manufacturer timeline of May 2022, in order to receive the vehicles by the estimated time of December 2022/January 2023.



AGENDA ITEM SUMMARY FORM

MEETING DATE: 04/26/2022

PREPARED BY: Kyle Livesay, Assistant Director of Parks and Recreation

AGENDA CONTENT: Discussion and possible action to pursue an agreement between the City of Angleton and i9 Sports and authorizing the City Manager to execute an agreement upon legal review.

AGENDA ITEM SECTION: Regular Agenda

BUDGETED AMOUNT: NA **FUNDS REQUESTED:** NA

FUND: NA

EXECUTIVE SUMMARY:

In January of 2022, Parks & Recreation staff began discussions with i9 Sports representatives on the possibility of i9 Sports offering youth sports leagues, camps, and clinics within the City of Angleton. In these discussions, i9 Sports communicated that they are equipped to offer programs for Youth Volleyball and Youth Flag Football as part of their menu of youth sports programs offered to communities.

Parks & Recreation staff has actively been working on developing youth volleyball and youth flag football programs to meet the expressed needs of the Angleton community. However, progress towards the creation and full administration of these programs by Parks & Recreation staff was impeded by barriers of level of staffing, functional expertise in the programming areas, and the substantial time dedicated to other services and needs within the Parks & Recreation Department. Since i9 Sports is a national organization that specializes in offering youth sports programs to communities and already has the staffing and business model in place to deliver these services, staff determined the i9 would be an ideal organization to work with to deliver Youth Volleyball and Youth Flag Football to the Angleton community.

Staff discussed what options may exist for working with i9 to offer these programs to the Angleton community and determined that an agreement allowing i9 Sports to utilize Angleton Park and Recreation facilities so Youth Volleyball programs, Youth Flag Football programs, and possible future programs such as Youth La Crosse and Non-Competitive Cheerleading could be offered to the youth of Angleton.

On March 22, 2022, staff sent a draft agreement to the City Attorney for legal review. The City Attorney is refining language to best meet the City's needs and recommended this item be for

discussion only. Staff was authorized to submit this item for discussion and possible action upon legal review.

This agreement will authorize i9 Sports use of Angleton Parks & Recreation facilities and parks and in return the City of Angleton will receive a percent of all registration fees that are paid to i9 Sports for participation in the programs that have been approved by the Angleton Parks & Recreation Department. The initial proposed rate of revenues due to the City is 25% but may be up for negotiation.

RECOMMENDATION:

Staff recommends City Council authorize the City Manager to execute an agreement with i9 Sports for youth sports programs at Angleton Parks & Recreation facilities & parks upon legal review.

SUGGESTED MOTION:

I move we authorize the City Manager to execute an agreement with i9 Sports for youth sports programs at Angleton Parks & Recreation facilities & parks upon legal review.

CITY OF ANGLETON, TEXAS
INDEPENDENT CONTRACTOR AGREEMENT

This Independent Contractor Agreement (“**AGREEMENT**”) is made and entered into as of the date fully executed (“**Effective Date**”), by and between City of Angleton, a political subdivision of the State of Texas, duly created and operating pursuant to Chapter 289, Acts of the 73rd Texas Legislature, Regular Session, 1993, as amended, and by operation of law, any successor-in-interest (“**CITY OF ANGLETON**”), and Reward Flip, Inc. dba I9 Sports – North Houston (“**INDEPENDENT CONTRACTOR**”) (THE CITY OF ANGLETON and INDEPENDENT CONTRACTOR may hereafter individually be referred to as a “**Party**” or collectively referred to as the “**Parties**”).

WITNESSETH:

WHEREAS, INDEPENDENT CONTRACTOR desires to provide its services to CITY OF ANGLETON pursuant to the terms and conditions contained in this Agreement;

WHEREAS, CITY OF ANGLETON desires to receive services from INDEPENDENT CONTRACTOR;

NOW, THEREFORE, for and in consideration of the mutual promises to each other, as hereinafter set forth, and other good and valuable consideration, the sufficiency of which is hereby acknowledged, the Parties hereto do mutually agree as follows:

- 1) **SCOPE OF SERVICES.** INDEPENDENT CONTRACTOR shall provide program services to CITY OF ANGLETON pursuant to the terms and conditions provided herein and as hereinafter set forth in Exhibit “A”, attached hereto and incorporated herein for all purposes (the “Services”).
- 2) **TERM.** This Agreement shall be effective as of the Effective Date and shall expire on the 31st day of December, 2022 (the “Term”).
- 3) **DUTIES OF INDEPENDENT CONTRACTOR.** During the Term of this Agreement, INDEPENDENT CONTRACTOR shall have the full and complete obligation and responsibility to provide all labor, services, employees, materials and equipment required to provide the Services in accordance with the terms of this Agreement.
 - a) **No Employee Relationship.** INDEPENDENT CONTRACTOR, its employees, staff, agents, directors or assigns are not agents, employees or servants of CITY OF ANGLETON or its affiliates and shall not claim any such status or rights associated with the same. Nothing

contained herein shall authorize INDEPENDENT CONTRACTOR its employees, staff, agents, directors or assigns to assume or create any obligation or responsibility, expressed or implied, on behalf of, or in the name of, CITY OF ANGLETON, or its affiliates or to bind it in any manner.

b) **Timely Performance.** INDEPENDENT CONTRACTOR shall report to all scheduled classes or programs on time and be prepared to provide the Services. Failure by INDEPENDENT CONTRACTOR to timely report for a scheduled class or program or failure to be fully prepared to provide the Services shall constitute a breach of this Agreement for which CITY OF ANGLETON may, but is not obligated to, terminate this Agreement. Alternatively, CITY OF ANGLETON may withhold up to twenty-five percent (25%) of INDEPENDENT CONTRACTOR's fee for that particular class or program as a fee for failure to timely report for that scheduled class or program ("Late Fee").

If INDEPENDENT CONTRACTOR fails to report to said class or program at all for any reason, CITY OF ANGLETON may withhold up to one-hundred percent (100%) of INDEPENDENT CONTRACTOR's fee for that particular class or program as a fee for failure to timely report for that scheduled class or program ("No Show Fee"); it being fully acknowledged and agreed to by the Parties that the harm caused by any untimely performance or failure to be available by INDEPENDENT CONTRACTOR is incapable or difficult to estimate or cure and that the Late Fee and No Show Fee are reasonable estimates of just compensation to CITY OF ANGLETON for such breach.

c) **Warranty.** INDEPENDENT CONTRACTOR warrants to CITY OF ANGLETON that all materials and equipment to be furnished in connection with this Agreement have been properly inspected by INDEPENDENT CONTRACTOR and are of good quality and fit for their intended purpose and free from any defects, and that INDEPENDENT CONTRACTOR and its agents or employees performing under this Agreement have any and all licenses, certifications, permits and other like authorizations and documents required by law to perform the Services or to be maintained by professionals providing similar services.

d) **Drug-Free; Background Checks.** INDEPENDENT CONTRACTOR shall enforce a drug-free workplace for the INDEPENDENT CONTRACTOR and all of its employees, staff, agents, directors or assigns. This includes requiring INDEPENDENT

CONTRACTOR, its applicants and employees (for purposes of this paragraph, INDEPENDENT CONTRACTOR is required to test anyone for whom INDEPENDENT CONTRACTOR withholds and is responsible for reporting payroll taxes, using its IRS- assigned EIN, including INDEPENDENT CONTRACTOR), at INDEPENDENT CONTRACTOR's expense, to submit to a drug test prior to performing work within the Township and upon reasonable suspicion in the workplace. The remainder of this paragraph is intended to and shall apply to all of INDEPENDENT CONTRACTOR's employees, as defined above. INDEPENDENT

CONTRACTOR shall provide satisfactory proof of such testing at any time requested by CITY OF ANGLETON. CITY OF ANGLETON retains the authority to prohibit any of such INDEPENDENT CONTRACTOR'S employees, staff, agents, directors or assigns from providing the Services described hereunder based on either adverse test results or upon reasonable suspicion of drug or alcohol usage while services are being performed. INDEPENDENT CONTRACTOR shall, within thirty days of contract execution, perform a criminal background check for all of Independent Contractor's employees performing work within the Township. Such checks shall cover the previous seven (7) years, showing no convictions other than minor traffic offenses. The background checks shall be at the INDEPENDENT CONTRACTOR'S expense and be completed at least thirty (30) days prior to hosting classes or within thirty (30) days of Agreement. CITY OF ANGLETON shall retain the authority to prohibit any of such INDEPENDENT CONTRACTOR'S employees, staff, agents, directors or assigns from providing the Services described hereunder based on failure to satisfy such background checks or for any arrest involving offenses of crimes against the person, moral turpitude and/or felony offenses under state, federal or local law.

4) **TIME REQUIREMENTS.** INDEPENDENT CONTRACTOR, its employees, staff, agents, directors or assigns shall devote, during the term of this Agreement, all of the time, energy, and skills necessary for the performance of the Services and shall periodically, or at any time upon request by CITY OF ANGLETON, submit any reports requested by CITY OF ANGLETON including, but not limited to, time reports regarding the Services provided to CITY OF ANGLETON.

5) **FEES TO INDEPENDENT CONTRACTOR.** The INDEPENDENT CONTRACTOR shall pay the CITY OF ANGLETON on a "per program" basis for services in connection with this Agreement. The exact amount for each program shall be agreed upon in writing by CITY OF ANGLETON and INDEPENDENT CONTRACTOR prior to any work being performed, as set forth in attached Exhibit "B." Said payment shall be subject to reduction as provided herein.

6) **RELATIONSHIP BETWEEN THE PARTIES.** CITY OF ANGLETON retains INDEPENDENT CONTRACTOR only for the purposes and to the extent set forth in this Agreement, and INDEPENDENT CONTRACTOR's relationship to CITY OF ANGLETON shall, during the Term of this Agreement, be that of an independent contractor. CITY OF ANGLETON shall not withhold from sums becoming payable to INDEPENDENT CONTRACTOR, its employees, staff, agents, directors or assigns hereunder, any amounts for State or Federal Income Tax, Unemployment Taxes, or for FICA (Social Security) taxes, during the Term of this Agreement. Neither INDEPENDENT CONTRACTOR nor its employees, staff, agents, directors, or assigns shall be entitled to receive any benefits which employees of CITY OF ANGLETON receive, including workers' compensation, unemployment compensation, medical insurance, life insurance, paid vacations, paid holidays, pension, profit sharing, or Social Security in exchange for the Services provided to CITY OF ANGLETON.

7)

TERMINATION.

a) Unless permitted to terminate earlier pursuant to the provisions contained herein, CITY OF ANGLETON may terminate this Agreement for any reason, with or without cause, by providing thirty (30) days' notice to INDEPENDENT CONTRACTOR. In the event of failure by INDEPENDENT CONTRACTOR to perform the Services as required by this Agreement with reasonable skill and diligence, CITY OF ANGLETON shall provide written notice to INDEPENDENT CONTRACTOR of specific deficiencies in performance and shall provide INDEPENDENT CONTRACTOR ten (10) calendar days from the date of such notification to cure said deficiencies to the satisfaction of CITY OF ANGLETON. If INDEPENDENT CONTRACTOR fails or is for any reason unable to cure said deficiencies, CITY OF ANGLETON may, at its sole discretion, but is under no obligation to, terminate this Agreement.

b) INDEPENDENT CONTRACTOR may terminate this AGREEMENT with or without cause and must provide at least forty-five (45) days' written notice prior to the termination of this Agreement. Failure by INDEPENDENT CONTRACTOR to provide said notice to CITY OF ANGLETON shall constitute a breach of this Agreement for which CITY OF ANGLETON may, but is not obligated to, immediately terminate this Agreement and any other current or future Agreement with INDEPENDENT CONTRACTOR to provide other similar services.

c) Failure of CITY OF ANGLETON to terminate this Agreement or to charge INDEPENDENT CONTRACTOR with a Late Fee or No Show Fee for any incident of INDEPENDENT CONTRACTOR reporting late to a scheduled class or program, or for failing to be prepared for a scheduled class or program, or for failing to provide prior notice for cancellation of a class or program shall not constitute a waiver of CITY OF ANGLETON's right to terminate this Agreement or charge fees as set forth herein for any future breaches for programs or classes covered by this Agreement or exercise any other remedies permitted herein, by law or in equity.

8) **RELEASE, DEFENSE, AND INDEMNITY.** CITY OF ANGLETON SHALL NOT BE LIABLE FOR, AND INDEPENDENT CONTRACTOR AGREES TO RELEASE, PROTECT, DEFEND, INDEMNIFY, AND HOLD HARMLESS CITY OF ANGLETON ITS SUCCESSORS, AFFILIATES, OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, AND ASSIGNS FROM AND AGAINST ANY AND ALL CLAIMS WHATSOEVER (INCLUDING CLAIMS OF THIRD PARTIES AND CLAIMS OF SPOUSES, HEIRS, SURVIVORS OR LEGAL REPRESENTATIVES, SUCCESSORS AND ASSIGNS OF INDEPENDENT CONTRACTOR FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY (WHETHER REAL OR PERSONAL, OWNED OR LEASED) DAMAGE AND LOSS ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THIS AGREEMENT AND THE SERVICES PROVIDED BY INDEPENDENT CONTRACTOR EVEN IF THE CLAIMS ARE CONTRIBUTED TO OR CAUSED BY THE SOLE, JOINT,

COMPARATIVE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE OF CITY OF ANGLETON. THE RELEASE, PROTECTION, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS ASSUMED BY INDEPENDENT CONTRACTOR, AND THE LIMITATIONS AFFORDED TO CITY OF ANGLETON IN THIS PARAGRAPH INCLUDE ANY LIABILITY FOR EMPLOYMENT DISCRIMINATION AS PART OF THE TOWNSHIP'S ADA, TITLE II, TITLE VI, TITLE VII OR OTHER COMPARABLE FEDERAL OR STATE CONTINUING LEGAL OBLIGATIONS TO ENSURE A DISCRIMINATION-FREE WORKPLACE TO ITS OWN EMPLOYEES AND FACILITY, PROGRAM, PLAN OR SERVICE FOR THE PUBLIC.

a) The indemnities contained in this Agreement shall only be effective to the maximum extent permitted by the applicable law, either legislative enactment or a controlling judicial decision. If such existing or future law limits in any way the extent to which indemnification may be provided to an indemnitee that is negligent, solely negligent, or otherwise at fault and, notwithstanding the choice of law provisions set forth herein, such law is applicable to interpretation of this Agreement, then this Agreement shall automatically be amended to provide that the indemnification provided hereunder shall extend only to the maximum extent permitted by such law.

b) For the purposes of this paragraph 8, the phrase "arising out of or resulting from the performance of this Agreement" shall be broadly construed to include, but not be limited to, not only formal work, but also any occurrences at the work site, including transportation to and from the work (other than personal or public transportation to the work site), breaks of all kinds, including, without limitation, breaks for meals and/or rest, horseplay of all kinds, or volunteering of all kinds to assist others in their work.

9) **REMEDIES.** INDEPENDENT CONTRACTOR's sole remedy for a default by CITY OF ANGLETON shall be to terminate this Agreement. INDEPENDENT CONTRACTOR shall not be entitled to any economic or financial damages whatsoever from CITY OF ANGLETON or its respective affiliates, officers, directors, employees, agents, attorneys, successors and assigns.

10) **SEVERABILITY.** Any provision of this Agreement, which is invalid or unenforceable in any jurisdiction, shall be ineffective to the extent of such invalidity or unenforceability without invalidating or rendering unenforceable the remaining provisions hereof, and any such invalidity or unenforceability in any jurisdiction shall not invalidate or render unenforceable such provisions in any other jurisdiction.

11) **GOVERNING LAW/VENUE.** This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Texas, with venue in Brazoria County, Texas.

12) **COUNTERPARTS.** This Agreement may be executed in any number of counterparts, all

of which taken together shall constitute one and the same instrument and any of the parties hereto may execute this Agreement by signing any such counterpart.

13) **HEADINGS FOR CONVENIENCE.** Section, subsection and paragraph headings are inserted for convenience of reference only and shall not in any way affect the meaning and interpretation of this Agreement.

14) **LAWS AND ORDINANCES. COMPLIANCE WITH ALL APPLICABLE STATE & FEDERAL LAWS. TO INCLUDE BUT NOT LIMITED TO THE CIVIL RIGHTS ACT, THE THE ADA AND AND § 21.141 TEXAS LABOR CODE..** INDEPENDENT CONTRACTOR shall comply with all provisions of Titles II, VI and VII of the Civil Rights Act, as amended and the Americans with Disabilities Act (ADA), as amended. As such, all efforts will be made for reasonable modification of said program(s).

15) **EXHIBITS.** All Exhibits are incorporated for all purposes as part of this Agreement.

EXHIBIT A: Independent Contractor Services (“Services)

EXHIBIT B: Independent Contractor Compensation

EXHIBIT C: Copy of Independent Contractors Additional Fees

EXHIBIT D: Sworn Affidavit of Additional Fees

[Signatures on pages following]

IN WITNESS WHEREOF, the Parties have executed and delivered this Agreement as follows:

Independent Contractor

By: _____
Name: Scott Read
Title: Instructor
Tax I.D. No: 30-0490278
Date: _____

City of Angleton

By: _____
Chris Whittaker
City Manager, City of Angleton
Date: _____

EXHIBIT “A”

INDEPENDENT CONTRACTOR SERVICES

1. INDEPENDENT CONTRACTOR DUTIES: INDEPENDENT CONTRACTOR (hereinafter sometimes referred to as “Instructor”) will provide the following:

Type of service/Instructor:	Youth Sport Leagues & Instructional Clinics
Name of class or activity:	I9 Sports
Day(s)/Date(s) Scheduled:	TBD
Time Scheduled:	TBD
Location:	TBD

a. **Enrollments.** A minimum of 4 and a maximum of 12 paid enrollments must be received by CITY OF ANGLETON prior to commencement of the class or activity. CITY OF ANGLETON reserves the right to cancel any class or activity that does not meet the minimum enrollment requirements as determined at the sole discretion of CITY OF ANGLETON.

b. **Scope.** All materials, class supplies, labor, including set-up and tear-down, equipment and services required to be performed under this Agreement are to be provided by INDEPENDENT CONTRACTOR. CITY OF ANGLETON cannot purchase supplies for INDEPENDENT CONTRACTOR utilizing CITY OF ANGLETON’s tax exempt status.

c. **Program and Participant Ratio Guidelines.** Instructor understands and acknowledges that Instructor-to-participant ratios are crucial to the success of any program, and the consideration of actual activities performed as well as the ages of participants will affect this ratio. INDEPENDENT CONTRACTOR must provide a safe program setting by providing appropriate supervision and instruction. CITY OF ANGLETON reserves the right to require additional supervision or program modification based on a mutually agreed upon state or national standard (e.g. American Camping Association, United States Tennis Association, Texas Department of Licensing and Regulation) to be provided by INDEPENDENT CONTRACTOR at the sole expense of INDEPENDENT CONTRACTOR based upon the program activities and ages of participants.

2. CITY OF ANGLETON DUTIES.

a. **Facilities.** CITY OF ANGLETON shall provide the facilities for use by INDEPENDENT CONTRACTOR and shall ensure that such facilities are in proper working order. Contractor will notify CITY OF ANGLETON immediately when repairs are needed. An on-call number is available to facilitate after-hours notification of repairs – 979.849.4364 option #5. While

repairs are in progress, alternate facility accommodations may need to be made, but may not be guaranteed by CITY OF ANGLETON; it being understood that such failure to provide alternate facilities shall not be a breach of this Agreement.

b. **Registration.** The INDEPENDENT CONTRACTOR shall conduct registration, collect participation fees and process class transfers or refunds for any and all programs and registrations related to programs and services provided.

c. **Rosters.** CITY OF ANGLETON shall provide class/activity rosters to INDEPENDENT CONTRACTOR.

d. **Publicity.** CITY OF ANGLETON shall publicize the class or activity through the most appropriate medium as determined in the sole discretion of CITY OF ANGLETON. INDEPENDENT CONTRACTOR is authorized to conduct supplemental publicizing only utilizing materials preapproved by CITY OF ANGLETON.

e. **Monitoring.** CITY OF ANGLETON reserves the right to monitor classes and/or activities performed hereunder to ensure adequate quality services are being performed and that provisions of this Agreement and its Exhibits are being met.

f. **Refund Policy.** INDEPENDENT CONTRACTOR agrees to abide by CITY OF ANGLETON refund procedures as set forth below.

- i. Full refunds will be given to participants who have registered for a class or program that has been cancelled by CITY OF ANGLETON.
- ii. If the participant requests a refund more than three (3) days prior to the start of any class or program, one day class or program or recurring class or program, they will receive a full refund less a \$5.00 service charge.
- iii. If the participant attends the 1st day of class or program and *for any reason is not satisfied*, they will receive a full refund less the \$5.00 processing fee.
- iv. Participants must submit a refund request prior to the 2nd class/program meeting. After the 2nd day of class/program, NO refunds will be available.
- v. Fees associated with online transactions are not refundable.
- vi. No cash refunds are given. A refund check may take up to three to four weeks to process and receive.

3. **MEDIA RELEASE.** INDEPENDENT CONTRACTOR hereby releases to CITY OF ANGLETON the right to use, publish, and reproduce, for all purposes, pictures, video recordings, and printed and electronic copy of any images of INDEPENDENT CONTRACTOR while performing the Services in any and all media, including, without limitation, the Internet and print media. INDEPENDENT CONTRACTOR further grants all right, title, and interest to CITY OF ANGLETON that may exist in the finished pictures, negatives, reproductions and copies of

original prints, and further grant the right to exhibit the print in copies thereof for marketing, communications, and advertising purposes, as CITY OF ANGLETON deems fit. INDEPENDENT CONTRACTOR hereby waives the right to receive any payment for such release and waive the right to receive any such payment for the continued use thereof.

EXHIBIT "B"
INDEPENDENT CONTRACTOR COMPENSATION

CITY OF ANGLETON will be compensated twenty-five percent (25%) of all monies collected through registrations received for the following programs: sport camps, leagues, instructional programs.

Payments made to CITY OF ANGLETON

- a. Youth Sports Instructional Programs: Independent Contractor shall submit one (1) payment, no later than the 5th day of the subsequent month including the previous month's rosters and payment to the Program Coordinator. All rosters shall be divided to include each class/league separately with the names and payments per participant. This check shall be noted as Program Payments.
- b. Facility Rental: Payments will be set up through an automatic payment system to withhold the agreed upon amount on the 10th of each month.

EXHIBIT “C”
INDEPENDENT CONTRACTOR ADDITIONAL FEES

INDEPENDENT CONTRACTOR agrees that the below list is the exclusive, exhaustive list of all additional fees charged or which may be charged by INDEPENDENT CONTRACTOR. INDEPENDENT CONTRACTOR acknowledges, as detailed with each listed additional fee, that (i) the listed supplies and/or materials are the supplies and/or materials to be purchased with said additional fees, (ii) that the intended use of said supplies and/or materials is accurate in all material respect, and (iii) unless otherwise indicated, the participant may keep said supplies and/or materials upon conclusion of the program:

Fee Name:	Fee Amount:	Supplies to be Purchased:	Intended Use:
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

EXHIBIT “D”
SWORN AFFIDAVIT IN SUPPORT OF ADDITIONAL FEES

BEFORE ME, the undersigned authority, on this day personally appeared ____ who swore on oath that the following facts are true:

"My name is _____. I am over 18 years of age, of sound mind, and fully competent to make this affidavit. I have personal knowledge of the facts stated herein and they are all true and correct."

"On _____, CITY OF ANGLETON

contracted with me to provide services as provided in the Independent Contractor Agreement (“Agreement”) to which this affidavit is attached as Exhibit D. Attached to said Agreement is Exhibit C, as proof of the additional fees to be charged pursuant to the Agreement (“Additional Fees”).”

"I hereby warrant, represent and attest that these Additional Fees are correct and represent the true and accurate out of pocket expenses to me of the items on which said Additional Fees are based and have not been increased in any way to provide for or charge other bonus or surplus amounts, including but not limited to administrative or management related fees or charges.”

SIGNED on this _____ day of _____, 20_____.

Affiant

SUBSCRIBED AND SWORN TO BEFORE ME on _____, by _____.

Notary Public, State of Texas



AGENDA ITEM SUMMARY FORM

MEETING DATE: 26 APRIL 2022

PREPARED BY: Chris Whittaker

AGENDA CONTENT: Discussion and possible action on an Ordinance amending the Code of Ordinances of the City Of Angleton, Texas, by amending and revising Chapter 8.5 Food and Food Establishments Article I. In General, Section 8.5-2. Definitions, Article II. Permit, Section 8.5-10. Required, Section 8.5-11. Duration, Article III. Inspections, Section 8.5-20. Annual Inspections, Reinspections, and New Inspections, Article V. Temporary and Mobile Food Establishments, Section 8.5-62. Mobile Food Establishments; Generally and Sec.8.5-63. Unrestricted And Restricted Mobile Food Unit Regulations As Contained In "Exhibit A"; Adopting Sec 8.5-66. Mobile Food Courts as contained in "exhibit b"; providing for the regulation of food and food establishments; providing a penalty; providing for severability; providing for repeal; and providing an effective date.

AGENDA ITEM SECTION: Regular Agenda

BUDGETED AMOUNT: NA

FUNDS REQUESTED: NA

FUND: NA

EXECUTIVE SUMMARY:

We are proposing a rewrite of the Food Truck Ordinance which will enable greater flexibility for food truck permits in the City of Angleton. In addition, we address Food Truck Courts for your consideration as we now have one and may have others in the future. This discussion will be led by our attorney.

RECOMMENDATION:

Provide feedback on this Ordinance so we can bring back in the future for approval.

ORDINANCE NO. 2022-_____

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF ANGLETON AMENDING THE CODE OF ORDINANCES OF THE CITY OF ANGLETON, TEXAS, BY AMENDING AND REVISING CHAPTER 8.5 FOOD AND FOOD ESTABLISHMENTS ARTICLE I. IN GENERAL, SECTION 8.5-2. DEFINITIONS, ARTICLE II. PERMIT, SECTION 8.5-10. REQUIRED, SECTION 8.5-11. DURATION, ARTICLE III. INSPECTIONS, SECTION 8.5-20. ANNUAL INSPECTIONS, REINSPECTIONS, AND NEW INSPECTIONS, ARTICLE V. TEMPORARY AND MOBILE FOOD ESTABLISHMENTS, SECTION 8.5-62. MOBILE FOOD ESTABLISHMENTS; GENERALLY AND SEC.8.5-63. UNRESTRICTED AND RESTRICTED MOBILE FOOD UNIT REGULATIONS AS CONTAINED IN “EXHIBIT A”; ADOPTING SEC 8.5-66. MOBILE FOOD COURTS AS CONTAINED IN “EXHIBIT B”; PROVIDING FOR THE REGULATION OF FOOD AND FOOD ESTABLISHMENTS; PROVIDING A PENALTY; PROVIDING FOR SEVERABILITY; PROVIDING FOR REPEAL; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City Council for the City of Angleton (“City Council”) is authorized by Chapter 54 of the Texas Local Government Code to enforce rules, ordinances and police regulation of the municipality by fine or penalty; and,

WHEREAS, as authorized under law and in the best interest of the residents, citizens and inhabitants of the City of Angleton, the City Council deems it expedient and necessary to amend and revise Chapter 8.5 Food and Food Establishments, Article I. In General, Section 8.5-2. Definitions, Article II. Permit, Section 8.5-10. Required, Section 8.5-11. Duration, Article III. Inspections, Section 8.5-20. Annual Inspections, Reinspections, and New Inspections, Article V. Temporary and Mobile Food Establishments, Section 8.5-62. Mobile Food Establishments; Generally and Sec.8.5-63. Unrestricted and Restricted Mobile Food Unit Regulations and adopt the amended ordinances as contained in “Exhibit A”; and

WHEREAS, as authorized under law and in the best interest of the residents, citizens and inhabitants of the City of Angleton, the City Council deems it expedient and necessary to adopt Chapter 8.5 Food and Food Establishments, Article V. Temporary and Mobile Food Unit Establishments, Section 8.5-66 Mobile Food Courts as contained in “Exhibit B”; and

WHEREAS, the City of Angleton is a home rule city acting pursuant to its charter and City Council now finds the need to amend and revise Chapter 8.5 to promote the public health, safety and welfare of its citizens; and

NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ANGLETON, TEXAS:

SECTION 1. All the facts recited in the preamble to this Ordinance are hereby found by the City Council to be true and correct and are incorporated herein by this reference and expressly made a part hereof, as if copied herein verbatim.

SECTION 2. The City of Angleton, Code of Ordinances, Chapter 8.5 Food and Food Establishments, Article I. In General, Section 8.5-2. Definitions, Article II. Permit, Section 8.5-10. Required, Section 8.5-11. Duration, Article III. Inspections, Section 8.5-20. Annual Inspections, Reinspections, and New Inspections, Article V. Temporary and Mobile Food Establishments, Section 8.5-62. Mobile Food Establishments; Generally and Sec.8.5-63. Unrestricted and Restricted Mobile Food Unit Regulations are hereby amended and revised to read as contained in “Exhibit A”.

SECTION 3. The City of Angleton adopts Chapter 8.5 Food and Food Establishments, Article V. Temporary and Mobile Food Unit Establishments, Section 8.5-66 Mobile Food Courts as contained in “Exhibit B”.

SECTION 3. Any person who violates or causes, allows, or permits another to violate any provision of this Ordinance shall be deemed guilty of a misdemeanor and, upon conviction thereof, shall be punished by a fine of not more than Two Thousand and No/100 Dollars (\$2,000.00). Each occurrence of any such violation of this Ordinance shall constitute a separate offense. Each day on which any such violation of this Ordinance occurs shall constitute a separate offense

SECTION 4. All ordinances or parts of ordinances inconsistent with the terms of this ordinance are hereby repealed; provided, however, that such repeal shall be only to the extent of such inconsistency and in all other respects this ordinance shall be cumulative of other ordinances regulating and governing the subject matter covered by this ordinance.

SECTION 5. In the event any clause, phrase, provision, sentence or part of this Ordinance or the application of the same to any person or circumstances shall for any reason be adjudged invalid or held unconstitutional by a court of competent jurisdiction, it shall not affect, impair or invalidate this Ordinance as a whole or any part or provision hereof other than the part declared to be invalid or unconstitutional; and the City Council of the City of Angleton, Texas declares that it would have passed each and every part of the same notwithstanding the omission of any part this declared to be invalid or unconstitutional, or whether there be one or more parts.

SECTION 6. That this Ordinance shall be effective and in full force immediately upon its adoption.

PASSED AND APPROVED THIS THE 12TH DAY OF APRIL 2022.

CITY OF ANGLETON, TEXAS

Jason Perez
Mayor

ATTEST:

Frances Aguilar, TRMC, MMC
City Secretary

“EXHIBIT A”

Sec. 8.5-2. Definitions.

For purposes of this chapter, the words, terms and phrases set forth in the Texas Food Establishment Rules (TFER) as definitions shall have the meanings set forth therein. Additionally, the following words, terms and phrases shall have the meanings set forth below except where the context clearly indicates a different meaning:

Authorized agent or employee means an employee(s) of the City of Angleton.

Caterer means any person or entity that transports complete meals from an approved establishment to another location for consumption but shall not include persons operating restaurants that routinely deliver food on order or persons that deliver a product or distribute a product to vending machines.

Commissary or central preparation facility means a facility that mobile food service establishments use to dispose of waste and to obtain supplies.

Food establishment or food service establishment means an operation that stores, prepares packages, serves, vends, or otherwise provides food for human consumption as follows:

- (1) A restaurant, retail food store, satellite or catered feeding location, catering operation if the operation provides food directly to a consumer or to a conveyance used to transport people, market, vending location, (machine), self-service food market, conveyance used to transport people, institution, or food bank;
- (2) An establishment that relinquishes possession of food to a consumer directly, or indirectly through a delivery service such as home delivery of grocery orders or restaurant takeout order, or delivery service that is provided by common carriers; and
- (3) Includes an element of the operation such as a transportation vehicle or a central preparation facility that supplies a vending location or satellite feeding location unless the vending or feeding location is permitted by the regulatory authority and an operation that is conducted in a mobile, stationary, temporary, or permanent facility or location; where consumption is on- or off-premises; and regardless of whether there is a charge for the food.
- (4) Food establishment does not include an establishment that offers only prepackaged foods that are not time/temperature controlled for safety food, a produce stand that only offers whole, uncut fresh fruits and vegetables, a food processing plant, a cottage food industry, an area where cottage food is prepared, sold or offered for human consumption, a bed and breakfast limited facility as defined in the TFER, or a private home that receives catered or home-delivered food.

Mobile food court means a property used or developed to accommodate one or more food trucks as the primary use of the property while possibly accommodating areas on the property for entertainment or recreational opportunities. This definition shall not be interpreted to include a congregation of mobile food vendors as a secondary use, accessory use, or temporary use (less than 30 days).

Mobile food unit (MFU) means a vehicle mounted, self or otherwise propelled, self-contained food service operation, designed to be readily movable (including, but not limited to, catering trucks, trailers, push carts, and roadside vendors) and used to store, prepare, display, serve or sell food. Mobile ~~Food~~ ~~Units~~ must completely retain their mobility at all times. A mobile food unit does not include a stand or a booth. A roadside food vendor is classified as a MFU.

Mobile food unit - additional permit means a mobile food unit operated by an existing permitted food establishment that provides an additional source of food service and also includes multiple mobile food units operated by the same owner. The owner is legally considered to be the person holding the food establishment's permit or the food permit(s) for the multiple mobile food units.

Nonprofit organization means an incorporated organization which exists for educational or charitable reasons, and from which its shareholders or trustees do not benefit financially. Nonprofit status must be verified by submission of supporting documentation, such as an IRS form 501c.

Person in charge means the individual present in a food service establishment who is the apparent supervisor of the food service establishment at the time of inspection. If no individual is the apparent supervisor, then any employee present is the person in charge.

Public property. The term "public property" shall mean any property open or devoted to public use or owned by the city, including, but not limited to, sidewalks, streets, rights-of-way, parks, and municipal buildings. This definition does not include property owned by any county entity.

Public rights-of-way. The term "public rights-of-way" shall mean the surface, the air space above the surface, and the area below the surface of any public street, highway, lane, path, alley, sidewalk, boulevard, drive, bridge, tunnel, parkway, waterway, easement, or similar property in which the city or the State of Texas now or hereafter holds any property interest.

Regulatory authority means the City of Angleton, Texas.

Roadside Food Vendor means a person who operates a mobile retail food store from a temporary location adjacent to a public road or highway. Food is not prepared or processed by a roadside food vendor. Roadside food vendors are classified as mobile food units.

Temporary food establishment is a food establishment that operates for a period of no more than 14 consecutive days in conjunction with a single event or celebration. This may include a stand or a booth.

Texas Food Establishment Rules ("TFER") means the rules promulgated by the Texas Department of State Health Services with an effective date of October 11, 2015, and set forth in 25 Texas Administrative Code, Chapter 228, Subchapters A—J, and as such rules may be hereafter amended.

Time/temperature control for safety food (TCS) means a food that requires time/temperature control for safety to limit pathogenic microorganism growth or toxin formation.

Sec. 8.5-10. Required.

- (a) *Required permit.* A food establishment, caterer, temporary food establishment, mobile food unit, child care center or group residence that provides food service shall only be operated

with a valid permit issued by the city. Permits are not transferable from place to place or person to person, except that, mobile food service establishments may retain the same license when moving from place to place as long as the vehicle remains the same. A valid permit shall be posted in public view in every establishment. Each and every food establishment, whether under one roof or not, shall be considered a separate establishment, and a permit must be obtained for each establishment. Each such establishment is subject to the requirements in this chapter. A valid permit must be posted at a clearly visible and accessible location near the entrance, or part of the premises most commonly approached by the public, of every food establishment regulated by this chapter. A permit is not required for the operation of a beverage stand operated by a child age 17 or under. Additional requirements for a mobile food unit permit are listed below in section.

- (b) *Filing of application.* Any person desiring to operate an establishment covered by this article shall make written application and pay the nonrefundable fee set out section 8.5-12, or as amended or stipulated in fee schedule approved by city council. Such application shall include, but not be limited to, the following:

- (1) The applicant's full name, post office address and street address;
- (2) Whether such applicant is an individual, firm or corporation and, if a partnership, the name of each partner and his address;
- (3) The location and type of the proposed food service establishment;
- ~~(4)~~ (i) if the permit is for a mobile food unit, in addition to the requirements listed in this section, the application must include: Dates of event for the food service establishment;
 - (A) type of vehicle to be used for the proposed mobile food unit;
 - (B) a menu listing of all food items to be sold;
 - (C) a notarized statement from the owner of a central preparation facility stating the mobile food unite uses the facility as its base of operation; and
 - (D) a copy of the most recent health inspection of the central preparation facility which must be maintained on the mobile unit at all times.
 - (E) Dates of event for the food service establishment

~~(54)~~ The signature of the applicant; and

~~(65)~~ All other information deemed necessary by the city.

~~(e)€~~ *Texas Food Establishment Rules.* All of the food uses described in this article shall be governed by all applicable Texas Food Establishment Rules.

- (d) *Filing of a food manager certificate.* A copy of the certified food manager certificate must be submitted with the license application or renewal.
- (e) *Exemption.* Temporary food establishments and establishments that serve, sell, or distribute only prepackaged non-TCS foods are exempt from this section.
- (f) *Inspection.* After the application has been submitted and all fees paid, the regulatory authority shall inspect the food service establishment for compliance with this chapter. If the establishment complies with this chapter, the regulatory authority shall issue the license.

Mobile food units must comply with all requirements listed under 25 Texas Administration Code 288.221 and under Article V of this Chapter, as amended.

- (g) *Administrative rules.* The city manager reserves the right to develop checklists, application forms, and other forms as necessary to administer the requirements of this article.

Sec. 8.5-11. Duration.

Permits shall be issued annually and shall extend from the date of issuance or renewal, as applicable. Annual renewal applications must be submitted at least 30 days prior to the expiration date of the permit. A permit shall be issued only if the establishment is in complete compliance with this chapter.

A mobile food unit (commonly known as a "food truck") permit shall be issued on an annual basis. A MFU that operates for a period of no more than three consecutive days in conjunction with a single event or celebration may obtain a temporary food establishment permit instead of a mobile food unit permit, however, a temporary food establishment permit may not be used in the place of a mobile food unit permit if the operator intends to operate their mobile food unit outside of a single event.

Sec. 8.5-20. Annual inspections, reinspections, and new inspections.

- (a) The city shall inspect each food establishment, including mobile food units, within the City of Angleton routinely on an annual basis, or as often as necessary to enforce this chapter.

Sec. 8.5-62. Mobile food establishments; generally.

- (a) *General requirements.*

- (1) *Designation of a central preparation facility.* Mobile food service establishments, including caterers and mobile food units that serve TCS foods shall operate from a central preparation facility, commissary, or other fixed food service establishment that is permitted and regularly inspected by the city or some other regulatory authority.
- (2) *Central preparation facility authorization.* A signed letter of authorization is required, to verify the facility use and to confirm that food and drink items will be provided to the operator for sale if the central preparation facility is not owned by the mobile unit operator.
- (3) *Central preparation facility inspection report.* A copy of the most current health inspection of the central preparation facility must be maintained on the mobile unit at all times.
- (4) *Food preparation.* Food prepared in a private home may not be used or offered for human consumption from a mobile food service establishment.
- (5) *Vehicle registration and insurance.* Mobile food service establishments must comply with all state and local laws pertaining to vehicle registration and insurance.
- (6) *Certified food manager.* Mobile food service establishments must have a certified food manager on site when preparing or selling food. Limited service mobile food units, as classified below, are exempt from this requirement.

(7) *Readily Movable.* Mobile food units must be mobile at all times. A MFU shall not be set on cinder blocks, have any flat tires, or be permanently attached to any outside equipment unless the equipment is for the specific purpose of fixing said MFU to make it readily movable once again.

Sec. 8.5-63. Unrestricted and restricted mobile food unit regulations.

(a) *Unrestricted mobile food units.* The following requirements apply to all unrestricted mobile food units:

(1) *Location.* Unrestricted mobile food ~~establishments~~units may operate at the following locations:

- a. At any construction site in any zoning districts as a mobile meal and snack commissary with periodic brief stops at construction sites;
- b. At school and church carnivals, special event, or conferences;
- c. At any catered event;
- d. On properties zoned Commercial-General (C-G), Commercial/Office Retail (C-OR), Central Business District (CBD), and Light Industrial (LI); and
- e. At public parks and other public facilities, subject to the approval of the parks and recreation director, city manager, as applicable, or their designee, and upon the execution of an agreement that would indemnify the City of Angleton and would assign the operator responsibility for any damages that may occur to city property, facilities, and to the health and well-being of the general public.

f. At a mobile food court in compliance with the zoning requirements in subsection (a)(1)(d) of this section.

(2) *Operation.*

- a. Mobile Food Units may operate Monday through Saturday at any time except between the hours of 11pm-5am, subject to the restrictions in section (a)(1) of this section.
- b. A mobile food unit must have a written agreement from a business within 150 feet for employees of the mobile food unit to have use of flushable restrooms (or other facilities as approve by the city) during hours of operation.
- c. All mobile food units must be removed daily, unless otherwise stated in this subsection, and report to their central preparation facility for daily supplying, cleaning, or servicing operations.

(3) *Duration of events.* Unrestricted mobile food units ~~establishments are generally classified as a temporary use, except as specified below~~ permitted to operate under a temporary food establishment permit must operate in accordance with the following:

- a. Events may last for up to five hours before being removed from the site and are permitted for up to ~~two~~three days per week; unless the exception criteria spelled out below are applicable;

- b. The unit must be removed from the site daily and may not become a permanent use unless the use complies with all subdivision and zoning requirements that would regulate the establishment of a permanent use;
 - c. The only exceptions to the duration of event requirements are:
 - 1. A multi-day special event hosted by the City of Angleton, or by a church, a school, or a charitable organization, subject to the approval of a site plan that demonstrates that a multi-day event can be conducted in a manner that would comply with all requirements of this article and not disrupt adjoining businesses or properties; and
 - 2. At a block party, a special street event conducted in a public right-of-way upon, a national holiday, or at any other function that is not expressly permitted in this article by the city council.
- (b) *Restricted mobile food units* shall be subject to:
- (1) All of the requirements set out in section 8.5-63, subsection (a), with respect to location, operating hours, duration, of events, and approval criteria.
 - (2) All of the requirements set out in section 8.5-63, subsection (a)(4)d, fire protection requirements for unrestricted mobile food units, shall be applicable to the degree that they pertain to the operation of any restricted mobile food units.

“Exhibit B”**Secs. 8.5-66. Mobile Food Courts.****(a) Mobile Food Court Requirements.**

(1) Mobile food court site shall be designed and intended for the use of mobile food units as the primary use of the property.

(2) Each site at the mobile food court on which a mobile food unit will be located and operated shall be provided hookups for electricity and potable water. Each individual food truck is not permitted to operate a generator at the site unless emergency circumstances necessitate the need for the use of a generator on a temporary basis not to exceed two hours within any given six-hour period of time.

(3) Permanent restrooms located within a permitted building or structure must be provided on-site within the food truck court for the use of the mobile food unit's and the mobile food court's customers, operators and employees. Alternatively, the mobile food court may have a written agreement from a business within 150 feet for use of flushable restrooms (or other facilities as approved by the city). A written agreement must be on file with the City.

a. All restrooms must be kept in sanitary and healthy conditions and must be equipped with sinks, soap, paper towels, toilet paper and running water. Such restroom(s) must remain open and available for use at all times during which the mobile food court is being used.

(4) The owner of the mobile food court and the operator of a mobile food unit must enter into a written agreement for the use of the mobile food court. Said agreement must be filed with the City prior to the mobile food unit's operation in the mobile food court.

(5) Mobile food courts shall only be allowed to engage in sales operations Monday through Sunday, between the hours of 8:00pm to 11:00 pm, unless otherwise granted permission by the City Manager or their designee.

(6) All mobile food units participating in a mobile food court shall remain fully mobile and operational.

(7) Mobile food courts shall be subject to the noise requirements of Chapter 13 of the Code of Ordinances and no amplified sound shall be permitted after 10:00 pm, unless otherwise granted permission by the City Manager or their designee.

(8) Mobile food courts shall provide containers of sufficient size and number for the disposal of trash and recyclables resulting from the mobile food court's operation and sales. The containers shall be identified as being for the disposal of trash and recyclables.

(9) Mobile food courts must be finished with concrete or asphaltic materials on which any mobile food trucks may park and operate. Customer parking must also be finished with concrete or asphaltic surface materials.

(10) Mobile food units shall be separated from existing buildings, parking lots and other mobile food units by a minimum of ten (10) feet, or as otherwise determined by the Fire Marshal.

(11) Mobile food courts must adhere to the City's zoning and commercial regulations.

(12) Any permanent structure will require a site plan amendment, building permit and be subject to any applicable ordinances and regulations.

(13) Seating for customers may be provided but may not be within 10 feet of any road, parked cars, structures on the property or mobile food units.

(b) Inspections. Mobile food courts and mobile food units operating on the property may be inspected from time to time by appropriate city personnel. Mobile food courts and mobile food units shall immediately be made available for inspection upon request of such city personnel.

(c) Alcohol. No alcohol sales shall be permitted on the property unless a permanent structure is constructed on the property and is in compliance with all TABC, zoning and food establishments rules, in addition to any other requirements as determined by the City Manager or their designee.

(d) Permits. Each mobile food court shall be required to receive a permit to operate from the City Manager or their designee. As part of the request for a permit, the following information, at a minimum, shall be provided:

(1) The name and address of the owner and operator;

(2) A legal description of the property to be used as a mobile food court;

(3) If the applicant represents a corporation, association, partnership or any other business entity, the names and addresses of the officers, partners or principals;

(4) The address and name under which the mobile food court will be operated; and

(5) Any other information reasonably required by the City Manager or their designee to document the use and operation of the mobile food court.

(e) Duration of Permit. A permit to operate a mobile food court shall remain valid only up to a maximum of six (6) months unless otherwise granted written permission from the City Manager or their designee. A mobile food court permit may be revoked at any time prior to its expiration for failure to adhere to any and all required city, county, state or federal laws and ordinances or for any other reason the City Manager or their designee believes to be in the best interest of the public health, safety and welfare of its citizens.

(f) Responsibility of Owner. Mobile food courts shall be responsible for identifying and obtaining all applicable permits and shall be responsible for conforming to all applicable city, county, state and federal regulations. The owners of the mobile food courts shall be responsible for ensuring

that any mobile food unit which operates as part of the mobile food court obtains all necessary permits prior to operation and conforms to all applicable city, county, state and federal regulations.

Sec. 8.5-67—8.5-79. Reserved.



AGENDA ITEM SUMMARY FORM

MEETING DATE: April 26, 2022

PREPARED BY: Tenecha Williams

AGENDA CONTENT: Discuss 2022/20223 Proposed Budget Schedule and Budget Direction and Guidelines.

AGENDA ITEM SECTION: Regular Agenda

BUDGETED AMOUNT: N/A **FUNDS REQUESTED:** N/A

FUND: N/A

EXECUTIVE SUMMARY:

Finance staff has prepared a proposed budget schedule for the upcoming 2022/2023 Budget Year. Finance is seeking any City Council direction and guidelines for the upcoming 2022/2023 Budget preparation.

RECOMMENDATION:

City Council to provide any feedback on requested date conflicts or changes. Provide any direction, guidelines or feedback for Budget preparation and schedule.

FY 2022-2023 PROPOSED BUDGET SCHEDULE

Tuesday, April 26	Council Meeting – Review Schedule / Budget Direction at Council Meeting.																				
Monday, May 2	Budget Kick-Off memo sent out to Departments regarding the budget process. Finance Department will provide Departments with general information on how the budget process will proceed for FY 2022-23.																				
Wednesday, May 25	Department heads submit budgets. All budget requests must be submitted to the Director of Finance by COB (Close of Business).																				
End of May	Preliminary Values Received from the Appraisal District.																				
Thursday, June 2	Director of Finance presents draft budget to City Manager. Director of Finance briefs the City Manager on departments’ requests in comparison to revenues and provides the City Manager with a draft budget for review.																				
June 6-17	City Manager meets with each Department to review budget and priorities. Times & Dates TBD <table><tr><td>Frances Aguilar</td><td>Walter Reeves</td><td>Lindsay Koskiniemi</td><td>Megan Mainer</td></tr><tr><td>Assist P&R Dir</td><td>Finance Director</td><td>Tenecha Williams</td><td>Jeff Sifford</td></tr><tr><td>Hector Renteria</td><td>Colleen Martin</td><td>Martha Eighme</td><td>Lupe Valdez</td></tr><tr><td>Chris Dahlstrom</td><td>Scott Myers</td><td>Glenn LaMont</td><td>Patty Swords</td></tr><tr><td>Chloe Campbell</td><td>Jason Crews</td><td></td><td></td></tr></table>	Frances Aguilar	Walter Reeves	Lindsay Koskiniemi	Megan Mainer	Assist P&R Dir	Finance Director	Tenecha Williams	Jeff Sifford	Hector Renteria	Colleen Martin	Martha Eighme	Lupe Valdez	Chris Dahlstrom	Scott Myers	Glenn LaMont	Patty Swords	Chloe Campbell	Jason Crews		
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Chris Dahlstrom	Scott Myers	Glenn LaMont	Patty Swords																		
Chloe Campbell	Jason Crews																				
Friday, July 1	City Manager submits copies of the proposed budget to the City Secretary for distribution to all interested persons.																				
Friday, July 1	City Council receives draft budget for review. The City Charter requires the City Manager, between 60 and 90 days prior (July 1-August 1) to the beginning of each fiscal year, or as soon as practicable after all necessary information is obtained from the county appraisal and taxing authorities to present council a proposed budget.																				
Saturday, July 9	First Budget Workshop with City Council. Chris Whittaker / Finance Director – General Overview, Revenues, Tax Rate, Personnel & Benefits. Utility Billing as part of Water. Walter Reeves – Development Services Department. Megan Mainer – Parks Department, ABLC, Angleton Recreation Center, Keep Angleton Beautiful (KAB) Events, Street / Park ROW. Scott Myers – Fire Department, Angleton Emergency Services District #3 Jeff Sifford – Public Works, Water, Sewer, and Plant Operations. Lupe Valdez – Police Department, Animal Services, Police Donations, Animal Control Donations, Police Drug Confiscation.																				

Saturday, July 9	Martha Eighme – Economic Development, Community Events, Hotel/Motel, Downtown Revitalization.
Tuesday, July 12	<p>Council Meeting – Second Budget Workshop with City Council.</p> <p>Frances Aguilar – City Secretary, City Council, Municipal Court, Municipal Court Technology, Municipal Court Security, Child Safety.</p> <p>Colleen Martin – HR Department.</p> <p>Glenn LaMont – Emergency Management Department.</p> <p>Jason Crews – I.T. Department.</p> <p>Chris Whittaker – Administration, Capital Projects Fund.</p> <p>Finance Director– Finance Department, Debt Service, Capital Expense Revolving, Capital Replacement funds, Unemployment fund, City Employee fund, TIRZ No. 1 & 2, Tax, Non-dept.</p> <p>Council Meeting – Discuss tax rate. Take a record vote to propose a tax rate. Governing body must schedule and announce date, time, and location of public hearing on tax rate.</p>
End of July	Certified values received from Appraisal District.
Tuesday, August 9	<p>Council Meeting – Third and Final Budget Workshop with City Council.</p> <p>Follow-up on any outstanding items and revisit departments, as necessary.</p>
Tuesday, August 16	The notice must appear at least five days before the meeting or public hearing. In addition, the governing body of a taxing unit may not hold a public hearing on a tax rate or hold a meeting to adopt a tax rate until the 5th day after the Appraisal District has complied with Texas Property Tax Code Section 26.05(d-1).
Tuesday, August 23	Council Meeting/Public hearing on the tax rate. Must announce time and location that tax rate will be approved.
Tues, September 13	<p>Council Meeting – Council considers adopting the Budget and Tax Rate. Take a record vote to propose a tax rate.</p> <p>City Secretary files copy of the budget with Brazoria County Clerk. Finance Department sends a copy of the approved budget to each department.</p> <p>Martha Uploads Adopted Budget to City Website.</p>