

**REQUEST FOR PROPOSAL (RFP) #26-12
GUADALUPE STREET PHASE 1 SEWER & WATER EXPANSION
GUADALUPE COUNTY
FEBRUARY 24, 2026**

PROPOSALS DUE: MARCH 31, 2026, at 2:00PM CST.

Guadalupe County (herein after referred to as “County” or “Guadalupe County”) seeks Competitive Sealed Proposals in response to this Request for Proposal (RFP) for Guadalupe Street Phase 1 Sewer and Water Expansion.

Competitive Sealed Proposals must be submitted electronically or hard copy with ***one (1) original and one (1) electronic copy of the entire Proposal on a flash drive.***

IMPORTANT DATES:

MANDATORY PRE-BID MEETING: March 11, 2026, at 10:00 AM CST. Meeting will be held at Guadalupe County Development Center (310 IH-10 West, Seguin, TX 78155).

QUESTIONS DEADLINE: March 18, 2026, at 2:00 PM CST.

PROPOSAL DUE DATE AND TIME: March 31, 2026, at 2:00 PM CST.

All questions and correspondence must be directed to the Purchasing Agent – Guadalupe County and submitted in writing via email to purchasing@guadalupe.tx.gov.

Guadalupe County prefers that Offerors submit Proposals electronically at:
<https://www.bidnetdirect.com/texas/guadalupecounty>.

Respondents shall restrict all contact with the County and direct all questions, in writing, via email, regarding this RFP, to the County’s Purchasing Agent. Do not contact members of the Commissioners Court, Elected Officials, Department Heads, or other employees of Guadalupe County regarding this RFP or related services. Contact with any county employee or elected official regarding this RFP, after issuance of the RFP and before selection is made, will result in disqualification.

Enclosed for your consideration is the RFP with all attachments. To be considered for this purchase, your firm must meet the qualifications and satisfy the requirements set forth in the RFP.

Guadalupe County reserves the right to accept or reject any or all proposals/bids as it deems in its best interest and to waive any formalities.

Guadalupe County is very conscious and extremely appreciative of the time and effort you have expended to submit a proposal/bid. If your response to this RFP is a "No Proposal" response, submit a "Statement of No Proposal" stating your reason and any requirement of this RFP which may have influenced your decision.

TABLE OF CONTENTS

PART I. INTRODUCTION

PART II. SCOPE OF WORK

PART III. INFORMATION REQUESTED FROM OFFERORS & PROPOSAL SUBMISSION FORMAT

ATTACHMENT A: PROPOSAL CERTIFICATION

ATTACHMENT B: PROPOSAL PRICING

ATTACHMENT C: CONTRACT

ATTACHMENT D: DISCLOSURE REQUIREMENTS

ATTACHMENT E: AFFIDAVIT OF NON-COLLUSION, NON-CONFLICT OF INTEREST, ANTI-LOBBYING

ATTACHMENT F: INDEMNITY AGREEMENT

ATTACHMENT G: SWORN VERIFICATION OF STATEMENTS

ATTACHMENT H: VENDOR CONTACT INFORMATION

ATTACHMENT I: W-9 REQUEST FOR TAXPAYER IDENTIFICATION

ATTACHMENT J: CERTIFICATE OF INTERESTED PARTIES

ATTACHMENT K: DRAWINGS

I. INTRODUCTION

1.1 GENERAL INFORMATION

1.1.1 Guadalupe County is a political subdivision of the State of Texas. The governing body of the County is the elected five-member Commissioners Court in accordance with the Texas Constitution, Article 5, §18(b). The Commissioners Court consists of the County Judge, who is elected at large to a four-year term, and four County Commissioners, each elected to represent a precinct within the County for a four-year term. In all Texas counties, the County Judge presides over Commissioners Court meetings.

1.1.2 Guadalupe County, which serves an area of 715 square miles, is located approximately one hundred miles inland from the Gulf of Mexico in south central Texas and is bounded by Comal, Hays, Caldwell, Gonzales, Wilson, and Bexar Counties. The population of the County has steadily grown from 131,533 in 2021 to 172,706 in 2020, with the U.S. Census Bureau estimating the County's current population at 188,454.

1.1.3 MANDATORY PRE-BID MEETING: March 11, 2026, at 10:00 AM CST. Meeting will be held at Guadalupe County Development Center (310 IH-10 West, Seguin, TX 78155).

Inquiries/Questions concerning this Request for Proposal (RFP) must be submitted in writing via email no later than **March 18, 2026, by 2:00 p.m. (Central Standard Time)**. All inquiries must be directed to the Purchasing Agent at:

Purchasing Agent - Guadalupe County
215 S. Milam Street
Seguin, Texas 78155
purchasing@guadalupetx.gov

Note: It is the responsibility of the person submitting the inquiry to verify that the Purchasing Department has received the inquiry.

1.1.4 DEADLINE for submitting Proposals is **March 31, 2026, by 2:00 p.m. (Central Standard Time)**. NOTE: The Time-Date Stamp Clock located in the Guadalupe County Purchasing Office, will serve as the **OFFICIAL CLOCK** for the purpose of verifying the date and time of receipt of Proposals. Hours of delivery/service shall be between 8:00 a.m. and 4:00 p.m., Monday through Friday, unless otherwise stipulated.

1.1.5 Submittals: Vendor shall sign and date the proposal, as requested. Proposals, which are not signed and dated in this manner, may be rejected.

All proposals must be received at the designated location by the deadline shown. Proposals received after the deadline will not be considered for the award of the contract and shall be considered void and "Non-responsive" in accordance with state law. **Incomplete submissions** (all requested/required documents/signatures) will be considered "Non-responsive" and will be rejected.

1.1.5.1 Guadalupe County prefers that Offerors submit proposals electronically at:
<https://www.bidnetdirect.com/texas/guadalupecounty>.

If submitting an electronic response, Offeror is not required to submit in hard copy format; however, Offeror is responsible to confirm solicitation has uploaded to the County's BIDNET site. County will not accept any late electronic responses because submission did not upload before the Deadline for Submission. Guadalupe County shall not be responsible for failed internet connections or power interruptions.

For registration and instructions go to Vendor Registration or contact BIDNET DIRECT Vendor support at <https://www.bidnetdirect.com/texas/guadalupecounty>

BIDNET DIRECT - Vendor Support will help you register. Monday-Friday from 8:00 am to 8:00 pm EST If you need help registering, please call the support department at Bidnet Direct toll free 1-800-835-4603 – option 2. There is no cost for you to register and retrieve documents. For convenience you may select the option in which your company will receive emails once Guadalupe County, or any other participation agency, has a bid opportunity that matches your company's business.

Hard copy proposals must submit **one (1) original and one (1) electronic copy of the entire Proposal on a flash drive.**

Hard copy proposals must be delivered by mail, express mail, or in person to:

Mailing Address:

Purchasing Agent - Guadalupe County
RFP 26-12
215 S. Milam Street
Seguin, Texas 78155

Hard copy proposals must be in a sealed envelope clearly marked with the name of the Company, Proposal name, Proposal number, and opening date in the lower left-hand corner of the envelope.

1.1.5.2 Receipt and Opening of Bids / Proposals:

To ensure the identification, security, and confidentiality of electronic bids or proposals, electronic bids/proposals received before the due date/time will be held in secure storage in the County's third party free vendor registration/bidding service "Bidnet Direct" until such time as they are electronically opened on the due date/time for said bid/proposal.

To ensure the identification, security, and confidentiality of hard copy bids or proposals, all hard copy bids/proposals received before the due date/time will be held in a secure storage in the Purchasing Agent's office.

Regardless of hard copy or electronic submission, all bids/proposals will be opened at the same time after the due date and time.

1.1.6 Acceptance - All RFP's must include a statement that they are valid for a minimum period of ninety (90) days subsequent to the RFP closing date.

1.1.7 Security Deposit- Include with the Proposal, a Bid Bond in the amount of not less than five percent (5%) in the form of a Bid Bond obtained from Surety or Insurance Companies that are duly licensed and or authorized in the jurisdiction in which the project is located.

1.1.8 Liquidated Damages- Vendors accepts the provisions of the Agreement as to liquidated damages of **Two Hundred and fifty dollars (\$250.00)** per day in the event of its failure to complete Work in accordance with the schedule set forth in the Agreement.

1.1.9 Bonds- Awarded Contractor shall furnish performance and payment bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all of Contractor's obligations under the Contract Documents. These bonds shall remain in effect until one year after the date when final payment becomes due or until completion of the correction period, whichever is later, except as provided otherwise by Laws or Regulations or by the Contract Documents. Contractor shall also furnish such other bonds as are required by the Contract Documents.

1.1.10 Late RFP's - will not be considered. Each Vendor shall be solely responsible for ensuring that the County receives the Proposal within the time limit indicated.

1.1.11 Non-appropriation - The County may cancel the contract should the present or any future County Commissioners Courts not appropriate funds in any fiscal year for the payment of this agreement. No penalty shall be attached in the event of any such non-appropriation. In the event of non-appropriation, the County shall give the successful Vendor written notice of cancellation and the County shall not be obligated to make any payments beyond the end of the fiscal year for which funds were appropriated (related to a subsequent fiscal year).

1.1.12 Costs – Costs related to preparation of a response shall be the responsibility of the Vendor. There is no expressed or implied obligation for Guadalupe County to reimburse Vendors for any expense incurred in preparing a Proposal in response to this RFP and Guadalupe County will not reimburse Vendors for these expenses.

1.1.13 Ownership of Proposal – Each Proposal shall become the property of Guadalupe County upon submittal and will not be returned to Vendors.

1.1.14 Right of Rejection - Guadalupe County reserves the right to reject any or all Proposals submitted and to waive any informality in Proposals received.

1.1.15 Clarification or Additional Information Requested - During the evaluation process, Guadalupe County reserves the right, where it may serve Guadalupe County's best interest, to request additional information or clarifications from Vendors, or to allow corrections of errors or omissions. At the discretion of Guadalupe County, firms submitting Proposals may be requested to make oral presentations as part of the evaluation process.

1.1.16 Right of Retention - Guadalupe County reserves the right to retain all Proposals submitted and to use any ideas in a Bid regardless of whether that Bid is selected, provided that the information was not marked as "Proprietary and or (Confidential)". Submission of a Proposals indicates acceptance by the firm of the conditions contained in this IFB, unless clearly and specifically noted in the Bid submitted and confirmed in the contract between Guadalupe County and the firm selected.

1.2 General Contract Terms and Conditions –

The parties, Guadalupe County, Texas, a political subdivision of the State of Texas, (hereinafter referred to as “County”) and the vendor (hereinafter referred to as “Vendor” or “Proposer”), hereby agree upon the following terms and conditions.

1.2.1 Contract – This Proposal, submitted documents, and any negotiations, when properly accepted by Guadalupe County, shall constitute a contract equally binding between the successful Proposer and Guadalupe County. No different or additional terms will become a part of this contract with the exception of a Change Order or Addenda.

1.2.2 Conflict of Interest - No public official shall have any interest in this contract, except as permitted by and subject to the disclosure requirements of Vernon’s Texas Codes Annotated, Local Government Code, Title 5, Subtitled C, Chapter 171.

1.2.3 Conflict of Interest Questionnaire (Texas Ethics Commission Form CIQ) - Complete this form and note if you have a conflict of interest with any County Official, Employee, or Department. The questionnaire should reflect the name of the individual with whom the conflict of interest occurs. If you have any questions regarding compliance with Chapter 176 of the Texas Local Government Code, please consult your legal representative. Compliance is the responsibility of each individual, business, agent or representative who is subject to the law’s filing requirements.

1.2.4 Equal Opportunity – Neither party shall discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin.

1.2.5 Confidentiality - All information disclosed by Guadalupe County to the successful Proposer for the purpose of the work to be performed or information that comes to the attention of the successful Proposer during the course of performing such work is to be kept strictly confidential.

1.2.6 Proprietary Information and Texas Public Information Act – All material submitted to the County as part of the RFP shall become public property and subject to the Texas Public Information Act upon receipt. If a Proposer does not desire proprietary information in the Proposal to be disclosed, each page must be clearly identified and marked proprietary at the time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary.

Note: Items marked “proprietary information” must meet the Texas Public Information Act requirements. Marking the entire submission, or large portions of the Proposal, “proprietary” will not meet the spirit, or the letter of the law, and will not be treated as proprietary information.

1.2.7 ADDENDA - Any interpretations, corrections or changes to this RFP will be made by addenda. Addenda will be emailed to all who are known to have received a copy of this Request for Proposal, the Proposer shall acknowledge receipt of all addenda with Proposal submission. It is the Submitters responsibility to verify the issuance of Addenda in regard to this Bid/Proposal.

1.2.8 Change Orders - No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All change orders to the contract will be made in writing and approved by Commissioners Court.

1.2.9 Incorporation of Exhibits, Appendices and Attachments – All of the exhibits, appendices and attachments referred to herein are incorporated by reference as if set forth verbatim herein.

1.2.10 Assignment - The successful Proposer shall not sell, assign, transfer or convey any contract resulting from this RFP, in whole or in part, without the prior written consent of Guadalupe County.

1.2.11 Venue - This agreement will be governed and construed according to the laws of State of Texas. This agreement is performable in Guadalupe County, Texas.

1.2.12 Compliance with Laws – Guadalupe County and the successful Proposer shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any ensuing Agreement, including, without limitation, Workers’ Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the successful Proposer shall furnish the County with certification of compliance with said laws, statutes, ordinances, rules, regulations, orders, and decrees above as specified.

1.2.13 IRS Form W-9 Request for Tax Payer Identification Number and Certification:

The IRS W-9 Form must be completed, signed and returned with the Proposal response. More information on this form can be found at the Internal Revenue Service (IRS) website at <https://www.irs.gov/forms-pubs/about-form-w9>.

The County is exempt from federal excise and state sales tax; therefore, tax must not be included in this Proposal.

1.2.14 Certificate of Interested Parties (Form 1295)- In 2015, the Texas Legislature adopted House Bill 1295, which added section 2252.908 of the Government Code. The law states that a governmental entity may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties to the governmental entity at the time the business entity submits the signed contract to the governmental entity or state agency.

The Texas Ethics Commission adopted rules and requires online filing of Form 1295 through their Website. The completed form, which will include a unique certification number, must be submitted to the County as part of your Proposal. Information regarding how to complete the online form is available at: <https://www.ethics.state.tx.us/filinginfo/1295/>

1.2.15 Texas House Bill 89 – Prohibition on Investment in Companies That Boycott Israel: During the 85th Texas Legislative Session, a new state law went into effect with the passing of House Bill 89. Texas Government Code, Chapter 2270.002 states a government may not enter into a contract with a Company for goods or services unless the contract contains written verification from the Company that it 1) does not boycott Israel and 2) will not boycott Israel during the term of the contract. Proposer must complete the form certifying that they are in compliance with these requirements. Prohibition on contracts with companies boycotting Israel per Texas Government Code, Chapter 2270.001, Definitions:

1. “Boycott Israel” has the meaning assigned by Section 808.001.
2. “Company” has the meaning assigned by Section 808.001.

3. "Government entity" has the meaning assigned by Texas Government Code, Section 2251.001.

1.2.16 Texas Senate Bill 252 – Prohibition On Contracting With A Company Doing Business With Iran, Sudan, Or A Foreign Terrorist Organization: During the 85th Texas Legislative Session, a new state law went into effect with the passing of Senate Bill 252. Texas Government Code, Chapter 2252.152, states a government may not enter into a contract with companies engaged in active business operations with Sudan, Iran, a foreign terrorist organization or a Company that is identified on a list prepared and maintained under Texas Government Code Section 806.051, 807.051, or 2252.153. Proposer must complete the form certifying that they are in compliance with these requirements. Prohibition on contracts with certain companies per Texas Government Code 2252.151 Definitions:

1. "Company" has the meaning assigned by Section 806.001.
2. "Foreign terrorist organization" means an organization designated as a foreign terrorist organization by the United States Secretary of State as authorized by 8 U.S.C. Section 1189.
3. "Government contract" means a contract awarded by a government entity for general construction, an improvement, a service, or a public works project for purchase of supplies, materials, or equipment. The term includes a contract to obtain a professional or consulting service subject to Texas Government Code Chapter 2254.
4. "Government entity" has the meaning assigned by Texas Government Code, Section 2252.001.

1.2.17 Section 2252.152 – Contracts with companies engaged in business with Iran, Sudan, or foreign terrorist organization prohibited. A government may not enter into a governmental contract with a Company that is identified on a list prepared and maintained under Section 806.051, 807.051, or 2252.153.

1.2.18 Section 2252.153 – Listed Companies. The Texas Comptroller of Public Accounts shall prepare and maintain, and make available to each governmental entity, a list of companies known to have contracts with or provide supplies or services to a foreign terrorist organization.

1.2.19 Standard Insurance Policies Required: All insurance requirements, including public liability and workers' compensation, as outlined in Texas State Statutes shall be met prior to any delivery and shall remain in effect during the life of the contract. General Requirements applicable to all policies:

- Only insurance carriers licensed and admitted to do business in the State of Texas will be accepted.
- Deductibles shall be listed on the Certificate of Insurance and are acceptable only on a per occurrence basis for property damage only.
- "Claims Made" policies will not be accepted.
- Each insurance policy shall be endorsed to state that coverage shall not be suspended, voided, canceled, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to Guadalupe County.
- All insurance policies shall be furnished to Guadalupe County upon request.

The County requires that the Proposer awarded the contract maintain in force such insurance that will protect themselves and the County from claims which may arise out of, or result from the execution of, the work whether such execution be by themselves, their employees, subcontractors, or by anyone for

whose acts may be liable.

1.2.20 INSURANCE AND LIABILITY:

During the period of this Contract, contractor shall maintain at their expense, insurance with limits not less than those prescribed below. With respect to required insurance, Contractor shall:

- 1 . Name Guadalupe County as additional insured, as its interests may appear.
- 2 . Provide County a waiver of subrogation.
- 3 . Provide County with a thirty (30) calendar days advance written notice of cancellation or material change to said insurance.
- 4 . Provide the County a Certificate of Insurance evidencing required coverages within ten (10) calendar days after receipt of Notice of Award. Also, assure your certificate contains the contract number as indicated on the Contract Award form when issued by Guadalupe County.
- 5 . Submit an original certificate of insurance reflecting coverage as follows:

<u>Professional liability:</u>	Not Required
<u>Automobile Liability:</u>	\$1,000,000
Bodily Injury (Each person)	\$1,000,000
Bodily Injury (Each accident)	\$1,000,000
Property Damage	\$1,000,000
<u>General Liability (Including Contractual Liability):</u>	
Bodily Injury	\$1,000,000
Property Damage	\$1,000,000
<u>Excess Liability:</u>	
Umbrella Form	\$1,000,000
Worker's Compensation:	Statutory (\$500,000)

1.2.21 Indemnification - See Attachment F.

1.2.22 Termination of Contract - This contract shall remain in effect until contract expires, completion and acceptance of services or default. Guadalupe County reserves the right to terminate the contract immediately in the event the successful Proposer fails to:

- Meet delivery or completion schedules, or otherwise perform in accordance with the accepted Proposal.
- Breach of contract or default authorizes the County to award to another Proposer, purchase elsewhere and charge the full increase cost to the defaulting Proposer.

Either party may terminate this contract with ninety (90) days written notice prior to either party stating cancellation. The successful Proposer must state therein the reasons for such cancellation. Prior

written notice must be delivered in person or sent by registered or certified mail, return receipt requested, proper postage paid, and properly addressed to: **Guadalupe County Purchasing, attn.: Purchasing Agent, 215 South Milam Street, Seguin, TX 78155.**

1.2.23 Performance of Contract - Guadalupe County reserves the right to enforce the performance of this contract in any manner prescribed by law or deemed to be in the best interest of the County in the event of breach or default of resulting contract award.

1.2.24 Invoices - Invoices shall be sent directly to Guadalupe County Auditor's Office, attention Accounts Payable, 307 West Court Street, Suite 205, Seguin, Texas 78155, or emailed to ap@guadalupetx.gov. The invoices shall show:

- Firm name and address
- Purchase Order Number
- Name of receiving department
- Detailed breakdown of all charges for the services delivered, stating the applicable period of time
- Signature of County employee accepting delivery

1.2.25 Payment - Payment will be made within thirty (30) days after satisfactory acceptance by the County of all completed services and receipt of a valid invoice, in accordance with the Texas Government Code, Chapter 2251. Payment requests must be submitted in accordance with the contracted payment schedule.

1.3 AWARD

1.3.1 Contract Period – The contract period is for one year effective the date Commissioner's Court awards the contract. If you propose a different contract structure time frame, you must note that as an exception in your proposal. **Note - The Proposer will be required to follow Federal / State tax laws; Federal / State minimum wage laws; Federal / State unemployment taxes; and FICA - and / or Insurance coverage rates.**

1.3.2 Local Preference - In accordance with Local Government Code §271.905, if a local government receives one or more proposals from a Proposer whose principle place of business is in the County and whose Proposal is within three percent of the lowest Proposal price received by the County from a Proposer who is not a resident of the County, the County may enter into a contract with: (1) the lowest Proposer; or (2) the Proposer whose principal place of business is in the local government if the governing body of the local government determines, in writing, that the local Proposer offers the local government the best combination of contract price and additional economic development opportunities for the local government created by the contract award, including the employment of residents of the local government and increased tax revenues to the local government. This section does not prohibit a local government from rejecting all proposals.

1.3.3 Firm Pricing - All of the items listed are to be on a "per unit" basis, stating a firm price per unit or unit quantity of each item. This price must be good from the date of Proposal opening for a fixed period of time. Unless the Proposal expressly states otherwise, this period shall be until the end of the

contract per the Proposal document. **Proposer shall be obligated to provide the services at the stated prices, within the time specified, and in accordance with all Terms and Conditions, and provisions contained herein as specified in individual delivery orders.** Actual requirements will be stated through issuance of individual Purchase Orders against the contract, and no obligation to pay for any quantities shall be deemed to exist unless or until such orders are issued.

1.3.4 Availability - It is expressly understood and agreed that in case Guadalupe County should need any item(s) not available within the time frame needed from the successful vendor(s) during the term of this contract, the County reserves the right to purchase the item(s) from other than the successful vendor(s) and shall not be in violation of any terms or conditions of said contract.

1.3.5 Locations – Various locations throughout Guadalupe County.

1.3.6 EVALUATION CRITERIA - Criteria utilized by Guadalupe County for determining the best value Proposer includes, but is not limited to:

- **Cost Control / Project Schedule (40 Points):** Provide material and labor pricing through contract period. Complete Cost Proposal spreadsheet in Attachment B. Provide timeline with key milestones.
- **Qualifications of Firm / Relevant Experience (25 Points):** Qualifications of firm for similar projects, in particular as they relate to similar government projects. Additionally, any past work with Guadalupe Co. will be evaluated.
- **Team Members Experience on Similar Projects (10 Points):** Relevant experience of the particular individuals who would be assigned to this project. List key personnel available and assigned to this project.
- **Capacity to Perform/Claim History (10 Points):** Demonstrated capacity to complete the project. Compliance with all applicable regulatory, permitting, safety, insurance, and contractual requirements. Please report any claims from the last 10 years.
- **Professional References (15 Points):** Three (3) references from relevant public projects. Evaluation of past performance and reputation of the responder.

Guadalupe County reserves the right to negotiate the contract in accordance with Local Government Code, Chapter 262, for request for proposal.

1.3.7 Protests- Protests before award must be submitted in writing to the Purchasing Agent not later than six (6) calendar days after Proposal opening, and protests after award must be submitted within ten (10) calendar days after award by Guadalupe County. The Purchasing Agent shall rule on the protest in writing within ten (10) calendar days from date of receipt. Any appeal of the Purchasing Agent's decision must be made within ten (10) calendar days after receipt thereof and submitted to the Purchasing Agent, who shall present the matter for final resolution to Guadalupe County. Appellant shall be notified of the time and place the appeal is to be heard by Guadalupe County and afforded an opportunity to present evidence in support of the appeal.

1.3.8 CONTRACT ADMINISTRATION- Under this contract, the *Emergency Management Coordinator of Guadalupe County* shall be the contract administrator with designated responsibility to ensure compliance with contract requirements, such as, but not limited to, acceptance, inspection and delivery. The contract administrator will serve as liaison between Guadalupe County and the successful Proposer.

1.3.9 Inter-Local Participation - It is hereby made a precondition of any Proposal/offer for a Contract for supplies or services and a part of these specifications, and that the submission of any Proposal/offer in response to this request constitutes a Proposal/offer made under the same conditions, for the same price, and for the same effective period as this Proposal/offer, to any other governmental entity having or entering into an inter-local agreement with Guadalupe County.

II. SCOPE OF WORK

The project Scope of Work (SOW) is the turnkey construction services required for the installation and/or modification of both existing and proposed public water and sewer lines. The SOW also consists of the ancillary project requirements (i.e., permitting, installation of Storm Water Pollution Prevention Plan, demolition and build back/repair of existing Hot Mixed Asphalt Pavement roadway, identification and clearance of existing utilities, excavation and backfill of utility trenches, the installation of public water and sewer and pipe in strict accordance with both manufacturer's protocols and procedures and engineering specifications, and site restoration for any areas disturbed as a part of the project construction activities) that are a part of the work required to provide a project executed and completed in place.

Attachment K of this Request for Proposal (RFP) includes the drawing set entitled 'N. GUADALUPE STREET -PUBLIC WATER & SEWER' prepared and sealed by Pape-Dawson Engineers January 23, 2026. The drawing set inclusive of all notes, complementary reports (i.e., geotechnical report) and referenced specifications shall be considered as if provided in one comprehensive design package.

Additional specifications shall include any City of Seguin specifications applicable to this project, to include, but not restricted to, the requirements for the installation of specific utilities, roadway repair, excavation, trench backfill, site restoration, and traffic control unless otherwise specified in the drawing set. It shall be the responsibility of the bidder to identify any conflict between drawings and City of Seguin specifications and bring them to the attention of Guadalupe County.

Attachment B of this RFP package contains the proposal pricing for this project and includes the engineer's estimated take-off for the quantities required to execute the project; it shall be the responsibility of the bidder to verify all quantities for any materials, excavation, pipe appurtenances or any other items required to provide a turnkey project. It shall also be the responsibility of the bidder to bring to the attention of Guadalupe County any discrepancies or shortcomings of the project design any oversights and/or omissions that would prohibit the turnkey execution of the project. The preceding statement is based on the premise that the RFP is submitted by an entity (bidder) that is well versed in the project requirements and has the demonstrated experience to know and understand the nuances of this type project.

SUBCONTRACTOR RESPONSIBILITY: Subcontractor shall be responsible for providing all the labor, material, equipment, subcontract, and other direct costs applicable to the SOW and compliant with the SOW, specifications, and drawings (and the cross references thereof), addenda, and administrative requirements of the services bid.

Information deemed not relevant to the work shall be ignored, however, the bidder shall confirm any items that it deems as not relevant the requirements of this RFP.

1. ***SAFETY:*** The work shall be executed safely, OSHA compliant with all applicable rules/law (Federal, State, Local, and Subcontractor's Safety requirements, etc.). Traffic control and/or warnings shall be provided per local rules and ordinances, as necessary. Care shall be taken to prevent collateral damage to the existing structures, pipes, existing markings, permanent line markers, equipment, etc. The work

shall be coordinated and performed in a manner that minimizes damage to infrastructure and/or objects.

2. PERMITS: Subcontractor shall obtain necessary permits and approvals specific to the execution of the work related to this project and is responsible for and **shall** obtain specific permits, licenses, and other applicable governances applicable to its work.
3. SITE COORDINATION: All construction and onsite Subcontractor activities shall be coordinated with the designated County representatives as needed to execute this work.
4. DISRUPTION OF UTILITY SERVICES: The SOW does not anticipate the interruption of utilities as a part of this project. However, any needed Subcontractor and/or anticipated interruption of any utilities shall be coordinated and scheduled through the County or City project representative(s). Any unplanned interruption by the Subcontractor, accidental or intentional, shall be restricted to the shortest time possible. In the case of any interruption, the Subcontractor shall prioritize and act immediately to reestablish the interrupted service at his sole expense.

NOTE: The Subcontractor shall verify the operation of existing utilities in the work limits prior to the start of work as a part of the geophysical investigation process. This includes water, irrigation, lights, or other site located services. When construction is complete, the Subcontractor shall verify the continued operation of existing utilities. The County representative shall witness all verification.

5. TEMPORARY FACILITIES: The Subcontractor **shall** provide temporary enclosures and facilities necessary to facilitate work activities. These may include, but not limited to, construction trailer and associated utilities, storage containers, portable toilets, hand washing stations, and fire extinguishers. Temporary facilities shall be sited in an approved location and sanitary facilities shall be provided in sufficient quantity to support the on-site personnel and maintained in a state of cleanliness that does not allow the emanation of any foul odor or environmental issues.
6. SITE PREPARATION: Site preparation includes, but is not limited to (as applicable), obtaining permits, installation of Storm Water Pollution Prevention Plan (SWPPP), installation of tree protection, installation of any temporary project site access or facilities, installation of traffic warnings and controls, alerting the County of impending work, construction, debris and junk removal, identification and isolation of existing utilities (all shall be identified and physically identified and/or verified not to be within the limits of required work, vertically and horizontally, or within proximity to be damaged by project work as with limits of excavation or compaction), and securing of the project site (as necessary).
7. DEFINED WORK AND PROJECT SEQUENCE: This part of the SOW is primarily concerned with the project objectives and may occur concurrently with other ongoing County or City activities. It is the Subcontractor's responsibility to identify the means and methods by which the work will be performed and to organize the sequencing and execution of the work in a manner that is safe, optimizes his effort, and limits the impact of the construction to the businesses of entities that will remain in operation during the performance of this work.
8. SEQUENCING: The anticipated items of work and sequencing are as identified in the above SOW.
9. CONSTRUCTION GENERATED DEBRIS, TRASH, and SPOILS: To the extent practical, recycle project-generated waste. Locations of disposal and/or recycle will be identified by the Subcontractor prior to removing materials from the site. The Subcontractor shall provide copies of all haul tickets,

certificates of disposal, and certification identifying that each point of disposal and/or recycling are properly documented to provide said services.

10. SITE MAINTENANCE: The site shall always be maintained without the accumulation of trash or any other waste generated by the project.
11. SITE INFORMATION: Reference the attached drawings, above descriptions, and/or prescribed methods in this SOW for site conditions; the limits of work shall be that as needed to perform only the work identified in this SOW.

There are no known hazardous environmental conditions that exist on the site that would impact the execution of this work.

12. SUBCONTRACT: Subcontractor shall execute and perform its work per the requirements in the County provided RFP documents.

NOTE: The insurance coverage requirements as stated in RFP documents.

13. INSURANCE REQUIREMENTS: Refer to County requirement and preceding note.
14. ATTACHMENTS: No additional documents other than those provided or referenced in this RFP are required for the technical components of the work to be executed.
15. SCOPE OMISSION: None

III. INFORMATION REQUESTED FROM OFFERORS – PROPOSAL FORMAT

Your proposal must contain all the items listed in the tabs below.

Tab A. All required County forms: PROPOSAL CERTIFICATION, PRICING FORM, CONTRACT, CIQ (DISCLOSURE REQUIREMENTS), AFFIDAVIT OF NON-COLLUSION, NON-CONFLICT OF INTEREST, ANTI-LOBBYING, INDEMNITY AGREEMENT, SWORN VERIFICATION OF STATEMENTS, VENDOR CONTACT INFORMATION, VENDOR W-9, 1295 (CERTIFICATE OF INTERESTED PARTIES).

Tab B. Letter of Transmittal:

1. Briefly state your understanding of the services being requested.
2. Give the names of the persons authorized to make representations for your company, their titles, addresses, and telephone numbers.

Tab C. Response to RFP: Include a response addressing information requested in the scope of work, including installation/implementation strategy, timeline, and itemized costs for products, and services.

Tab D. Provide three (3) entities (government preferred) where you have completed a similar size/scope project within the last two years. Provide entity, full name of contact, current title, email address, and phone number.

PROPOSAL REQUIREMENTS

COMPLETED PROPOSAL: A completed proposal means all requested documentation uploaded and submitted to the Bidnet listing, or for hardcopy submission, one (1) original and one (1) electronic copy of the entire Proposal on a flash drive.

LATE PROPOSALS: Proposals received after submission deadline will not be opened and will be considered void and unacceptable. Guadalupe County is not responsible for lateness of mail, courier service, internet/website issues, etc.

DOCUMENTATION: Vendor shall provide with this proposal response, all documentation required by this proposal. Failure to provide this information may result in rejection of the proposal.

MINIMUM STANDARDS FOR RESPONSIBLE PROSPECTIVE VENDORS: A vendor must affirmatively demonstrate their capacity to perform. A vendor must meet the following minimum requirements:

1. Have adequate product resources, or the ability to obtain such resources as required;
2. Be able to comply with the required or proposed delivery schedule;
3. Have a satisfactory record of performance;
4. Be otherwise qualified and eligible to receive an award.

Guadalupe County may request representation and other information sufficient to determine vendor's ability to meet these minimum requirements listed above.

PROPOSAL SUBMISSIONS must include:

ATTACHMENT A: PROPOSAL CERTIFICATION

ATTACHMENT B: PROPOSAL PRICING

ATTACHMENT C: CONTRACT*

ATTACHMENT D: DISCLOSURE REQUIREMENTS

ATTACHMENT E: AFFIDAVIT OF NON-COLLUSION, NON-CONFLICT OF INTEREST, ANTI-LOBBYING

ATTACHMENT F: INDEMNITY AGREEMENT

ATTACHMENT G: SWORN VERIFICATION OF STATEMENTS

ATTACHMENT H: VENDOR CONTACT INFORMATION

ATTACHMENT I: W-9 REQUEST FOR TAXPAYER IDENTIFICATION

ATTACHMENT J: CERTIFICATE OF INTERESTED PARTIES

ATTACHMENT K: DRAWINGS

PROPOSAL (in the format specified in Section III)

***If the Bidder/Proposer will be requiring the County to sign any other P.O., form or contract, the Bidder/Proposer must submit a copy of the document sought to be signed by the County**

ATTACHMENT A:

**PROPOSAL CERTIFICATION
RFP# 26-12 GUADALUPE ST PHASE 1 SEWER AND WATER EXPANSION**

LEGAL NAME OF CONTRACTING COMPANY

FEDERAL I.D. # (Company or Corporation)

TELEPHONE NUMBER

E-MAIL ADDRESS

CONTACT PERSON

TITLE

COMPLETE STREET ADDRESS

CITY & STATE

ZIP CODE

CERTIFICATION

The undersigned certifies it can and will provide and make available, at a minimum, all services set forth in this agreement. The undersigned affirms that they have read and do understand the statement of work and specifications and any attachments contained in this RFP package. The undersigned agrees this Proposal becomes the property of Guadalupe County after the official opening.

The undersigned affirms that they are familiarized with the local conditions under which the work is to be performed; satisfied him/her of the conditions of delivery, handling and storage of equipment and all other matters, which may be incidental to the work, before submitting a Proposal.

The undersigned agrees if this Proposal is accepted, to furnish any and all items/services upon which prices are offered, at the price(s) and upon the terms and conditions contained in the RFP. The period for acceptance of this RFP will be ninety (90) calendar days.

The undersigned affirms that they are duly authorized to execute a contract, that this Proposal has not been prepared in collusion with any other Respondent, nor any employee of Guadalupe County, and that the contents of this Proposal have not been communicated to any other Respondent or to any employee of Guadalupe County prior to the official Proposal opening.

By signing this Proposal, Proposer guarantees, I do hereby declare that I have read the RFP in which our Proposal is submitted with full knowledge of the requirements, and do hereby agree to furnish all services in full accordance with the requirements outlined in the RFP.

SIGNATURE

DATE

TYPEWRITTEN OR PRINTED NAME

TITLE

***This page must be page 1 of the Proposal, or the Proposal may be rejected.**

ATTACHMENT B:

PROPOSAL PRICING

BID PROPOSAL					
GUADALUPE ST WATER & SEWER EXTENSIONS					
BASE BID					
ITEM		UNIT		UNIT PRICE	TOTAL
NO.	QTY	RATE	ITEM DESCRIPTION	IN FIGURES	AMOUNT
GENERAL ITEMS					
1	1	LS	MOBILIZATION, OVERHEAD, BOND AND CONSTRUCTION STAKING		
2	1	LS	SITE PREPARATION, TOPSOIL REMOVAL AND REPLACEMENT, COMPLETE IN PLACE		
3	1	LS	TRAFFIC CONTROL		
4	1	LS	POTHOLE EXSITING UTILITIES (INCLUDING TIE-IN POINTS)		
5	1	LS	EROSION & SEDIMENT CONTROL-SWPPP IMPLEMENTATION & MAINTENANCE, SILT FENCE, ETC. COMPLETE IN PLACE.		
6	1	LS	HYDROSEED AND HYDROMULCH, COMPLETE IN PLACE		
7	868	SF	ASPHALT REPAIR		
8	1	LS	CITY OF SEGUIN PERMITTING FEES, COORDINATION, INSPECTIONS		
GENERAL ITEMS SUBTOTAL					
SANITARY SEWER CONSTRUCTION ITEMS					
9	1843	LF	8" SDR 26 PVC - STRUCTURAL BACKFILL, COMPLETE IN PLACE		
10	7	EA	CONCRETE MANHOLE - 4' DIA., COMPLETE IN PLACE		
11	1	EA	8" SOLID CAP		
12	1	EA	CONNECT TO EXISTING MANHOLE, COMPLETE IN PLACE		
13	1	EA	CONNECT EXISTING LINE TO PROPOSED MANHOLE, COMPLETE IN PLACE		
14	1	LS	BYPASS PUMPING PLAN DEVELOPMENT AND IMPLEMENTATION		
15	1	LS	TEMPORARY UTILITY POLE SHORING		
16	6	EA	RELLECTIVE MARKERS		
SANITARY SEWER ITEMS SUBTOTAL					

WATERLINE CONSTRUCTION ITEMS					
17	740	LF	12" PVC DR-18, C900 WATER PIPE W/TRACER WIRE - NON STRUCTURAL BACKFILL, COMPLETE IN PLACE		
18	73	LF	12" PVC DR-18, C900 WATER PIPE W/TRACER WIRE - STRUCTURAL BACKFILL, COMPLETE IN PLACE		
19	8	LF	8" PVC DR-18, C900 WATER PIPE W/TRACER WIRE - NON STRUCTURAL BACKFILL, COMPLETE IN PLACE		
20	1	EA	8"X8" CUT-IN TEE, M.J.		
21	1	EA	12"x8" REDUCER M.J., COMPLETE IN PLACE		
22	5	EA	12" GATE VALVE M.J., COMPLETE IN PLACE		
23	6	EA	6" VALVE BOX, COMPLETE IN PLACE		
24	2	EA	2" BLOW-OFF ASSEMBLY (TEMPORARY), COMPLETE IN PLACE		
25	2	EA	12"X12" TEE M.J., COMPLETE IN PLACE		
26	2	EA	12" SOLID CAP		
27	1	EA	12"X8" TEE M.J., COMPLETE IN PLACE		
28	1	EA	8" GATE VALVE M.J., COMPLETE IN PLACE		
29	1	EA	8" SOLID CAP		
30	1	EA	12" 1/4 BEND M.J., COMPLETE IN PLACE		
31	1	EA	CONNECT TO EXISTING 12" WATER LINE, REMOVE 12" D.I. PLUG, COMPLETE IN PLACE		
32	1	EA	CONNECT TO EXISTING 8" WATER LINE W/ 8"X8" CUT-IN TEE, M.J., COMPLETE IN PLACE		
32	1	LS	WATERLINE CHLORINATION AND TESTING		
WATERLINE ITEMS SUBTOTAL					
TOTAL GUADALUPE ST. WATER AND SEWER EXTENSIONS					
TOTAL CALENDAR DAYS					

ATTACHMENT C:

CONTRACT

The undersigned agrees, if this proposal is accepted, to furnish any and all items upon which prices are offered, at the price(s) and upon the terms and conditions contained in the specifications.

The County reserves the right to accept or reject any proposals submitted, and to waive any technicalities in the best interest of the County.

The undersigned, by his/her signature, affirms and represents that he/she is duly authorized to execute this contract and bind the vendor to fully comply with terms and conditions of the attached documents for the amount(s) shown on the accompanying bid sheets. Further, the undersigned affirms and represents that this proposal has not been prepared in collusion with any other vendor, and that the contents of this proposal have not been communicated to any other vendor prior to the official opening of this proposal.

By signing below, you affirm that you have read the entire document and agree to the terms therein.

Signature of Person Authorized to Sign Proposal: Date

Printed Name and Title of Signer:

Mailing Address:
Street: _____

City: _____ State: _____ Zip: _____

E-mail: _____ Phone Number: _____

Guadalupe County in Seguin, Texas does hereby agree to purchase the Guadalupe St. Phase 1 Sewer & Water Expansion from _____ in accordance with the requirements set forth in the proposal specifications.

PASSED THIS _____ DAY OF _____, _____.

APPROVED:

ATTEST:

KYLE KUTSCHER, COUNTY JUDGE

TERESA KIEL, COUNTY CLERK

ATTACHMENT D:

DISCLOSURE REQUIREMENTS

Chapter 176 of the Texas Local Government Code mandates the public disclosure of certain information concerning persons doing business or seeking to do business with Guadalupe County, including affiliations and business and financial relationships such persons may have with Guadalupe County officers.

An explanation of the requirements of Chapter 176 is located at:
<http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>.

A list of County officials is located at: <https://www.guadalupe.tx.gov/page/co.officials>

The Conflict of Interest Questionnaire (CIQ) form can be obtained at:
<https://www.ethics.state.tx.us/forms/conflict/>

Complete a CIQ form and submit with your response.

By doing business or seeking to do business with Guadalupe County, you acknowledge that you have been notified of the requirements of Chapter 176 of the Texas Local Government Code and that you are solely responsible for complying with them.

ATTACHMENT E:

AFFIDAVIT OF NON-COLLUSION, NON-CONFLICT OF INTEREST, ANTI-LOBBYING

By submission of this Proposal, the undersigned certifies that:

1. Neither the Proposer nor any of Proposer's officers, partners, owners, agents, representatives, employees, or parties in interest, has in any way colluded, conspired, or agreed, directly or indirectly with any person, firm, corporation or other Proposer or potential Proposer any money or other valuable consideration for assistance in procuring or attempting to procure a contract or fix the prices in the attached Proposal or the Proposal of any Proposer, and further states that no such money or other reward will be hereinafter paid.
2. No attempt has been or will be made by this Company's officers, employees, or agents to lobby, directly or indirectly, the Guadalupe County Commissioners Court or its employees between Proposal submission date and award by Guadalupe County.
3. No officer or stockholder of the Proposer is a member of the staff, or related to any employee of Guadalupe County except as noted herein below:

4. The undersigned certifies that he/she is fully informed regarding the accuracy of the statements contained in this certification, and that the penalties herein are applicable to the Proposer as well as to any person signing on his/her behalf.

Signature: _____

Title: _____

Printed Name: _____

Date Signed: _____

ATTACHMENT F:

INDEMNITY AGREEMENT

The Company agrees to and shall indemnify, hold harmless and defend the County, its officers, agents and employees from and against any and all claims, losses, damages, causes of action, suits, and liability of every kind; including all expenses of litigation, court costs, and attorneys' fees, for damage to any property, loss of revenue, or any other injuries or damages arising out of or in connection with the services performed by the Company, pursuant to this Proposal, the conduct or management of the Company's activities, or from any act or omission by the Company, its agents, employees, or subcontractors, where such damages, losses or injuries are caused by the joint or sole negligence of the Company.

It is the expressed intention of the parties hereto, both the Company and the County, that the indemnity provided for in this paragraph is indemnity by the Company to indemnify and protect the County from the consequences of the Company's own negligence, where that negligence is a concurring cause of the resulting injury, death or damage. Furthermore, the indemnity provided for in this paragraph shall have no application to the County for any claim, loss, damage, and cause of action, suit and liability where the injury, loss or damage results from the sole or the concurrent negligence of the county.

In the event that any action or proceeding is brought against the County by reason of any matter from which the County is indemnified herein, the Company further agrees and covenants to defend the action or proceeding by legal counsel acceptable to the County. This article shall survive the expiration or termination of the agreement.

Signature of Official Representative of Firm

Printed Name of Official Representative

Title

ATTACHMENT G:

SWORN VERIFICATION OF STATEMENTS

By signing below, you affirm that you have the authorization to make the statements below for the Company submitting this Proposal. You affirm that you are fully aware of the facts stated in this statement.

- Pursuant to Section 2271.002 of the Texas Government Code, Respondent certifies that either (i) it meets an exemption criteria under Section 2271.002; or (ii) it does not boycott Israel and will not boycott Israel during the term of the contract resulting from this solicitation. Respondent shall state any facts that make it exempt from the boycott certification in its Response.
- In accordance with Texas Government Code Section 2252.152, this Company does not engage in active business operations with Sudan, Iran, a foreign terrorist organization or a Company that is identified on divestment statute lists prepared and maintained by the Texas Comptroller of Public Accounts.
- Pursuant to Section 2274.001 through .001.003 of the Texas Government Code Government Code: If Respondent is required to make a verification pursuant to Section 2274.001-3 of the Texas Government Code, Respondent verifies that Respondent does not boycott energy companies during the term of the Contract. If Respondent does not make that verification, Respondent must so indicate in its Response and state why the certification is not required.
- Pursuant to Section 2274.001 through .001.003 of the Texas Government Code Government Code: If Respondent is required to make a verification pursuant to Section 2274.001-3 of the Texas Government Code, Respondent verifies that Respondent will not boycott Firearm Entities and Trade Associations during the term of the Contract. If Respondent does not make that verification, Respondent must so indicate in its Response and state why the certification is not required.

Signature of Person Authorized to Sign Contract:

Date:

Printed Name and Title of Signer:

Name of Company:

ATTACHMENT H:

VENDOR CONTACT INFORMATION

Primary Contact Information:

Name:

Email:

Phone:

Accounting Contact Information:

Name:

Email:

Phone:

General Office Email if Applicable:

ATTACHMENT J:

CERTIFICATE OF INTERESTED PARTIES

In 2015, the Texas Legislature adopted House Bill 1295, which added Section 2252.908 of the Government Code. The law states that a government entity may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties to the government entity. The disclosure of interested parties will be submitted online via Form 1295 through the Texas Ethics Commission website and must be submitted to the governmental entity prior to any signed contract and/or vote by the governing authority.

Business Entity must complete Form 1295 in electronic format on the Texas Ethics Commission website: <https://www.ethics.state.tx.us/filinginfo/1295/>

Upon receipt of a completed Interested Parties Disclosure Form, Texas Ethics Commission issues a Certification of Filing to the Business Entity and the Business Entity download and print the Form 1295. An authorized agent of the business entity will need to sign the printed copy of the form.

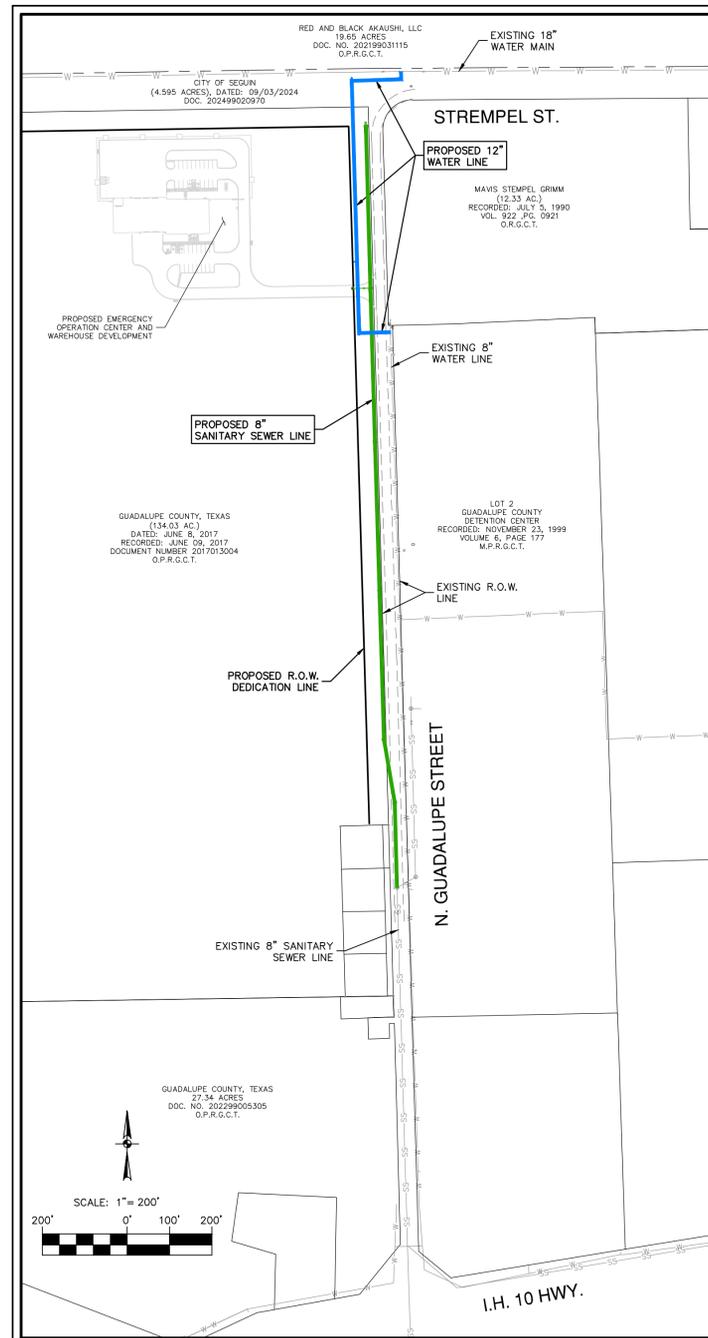
At the time of submission of the solicitation to the County, the Business Entity must submit the completed Form 1295 with the Certification of Filing with their Bid/Proposal (i.e.: IFB, RFP, RFQ, SOQ, etc.) to the County.

ATTACHMENT K:

DRAWINGS

N. GUADALUPE STREET - PUBLIC WATER & SEWER

GUADALUPE COUNTY, TEXAS CIVIL CONSTRUCTION PLANS



SHEET INDEX	
Sheet Description	Sheet No.
COVER SHEET	C0.00
GENERAL NOTES	C0.10
STORM WATER POLLUTION PREVENTION PLAN	C0.20
12" WATER MAIN - PLAN AND PROFILE (STA. 1+00 TO 4+80)	C1.00
12" WATER MAIN - PLAN AND PROFILE (STA. 4+80 TO END)	C1.01
8" SANITARY SEWER - PLAN AND PROFILE (STA. 1+00 TO 9+50)	C2.00
8" SANITARY SEWER - PLAN AND PROFILE (STA. 9+50 TO END)	C2.01
UTILITY DETAILS	C3.00

APPROVAL FOR CONSTRUCTION BY:

TIM HOWE
DIRECTION OF WATER / WASTEWATER
CITY OF SEGUIN

CIVIL ENGINEER
DAVID E. MARTINEZ, P.E.
PAPE-DAWSON ENGINEERS
2000 NW LOOP 410
SAN ANTONIO, TX 78213
210-375-9000 (T)

PREPARED FOR:
GUADALUPE COUNTY
101 E. COURT ST. SUITE 208
SEGUIN, TEXAS 78155

NOTE

- ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF SEGUIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.
- IF CONSTRUCTION HAS NOT COMMENCED WITHIN TWO-YEARS OF THE CITY APPROVAL FOR CONSTRUCTION, THAT APPROVAL IS NO LONGER VALID.

1/23/26

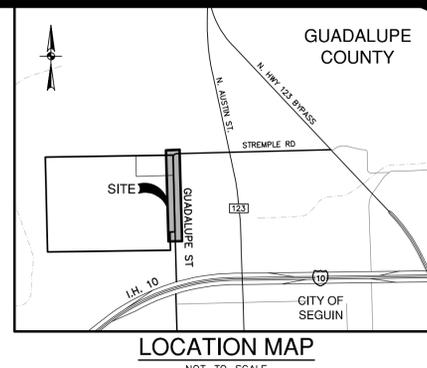
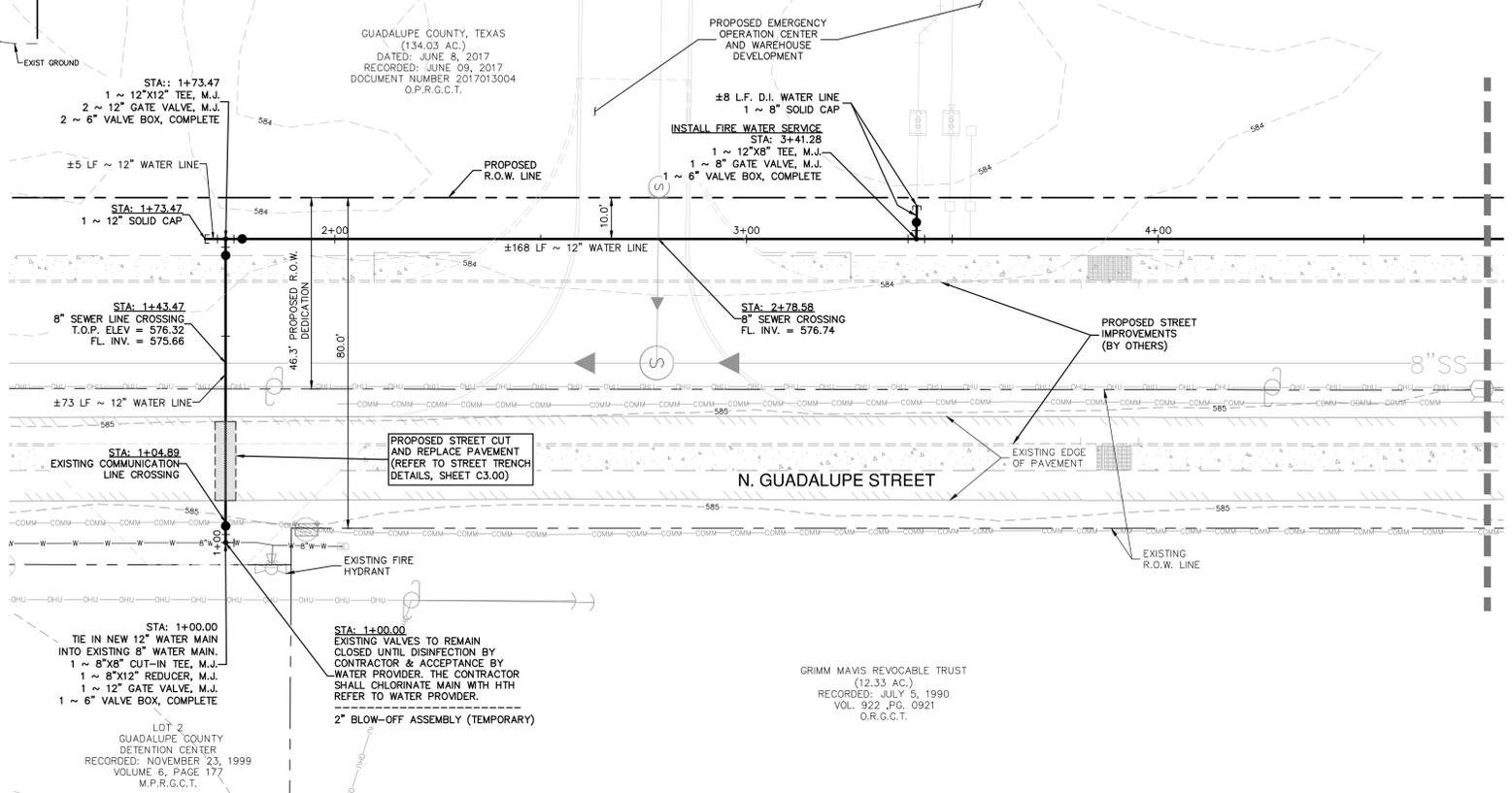
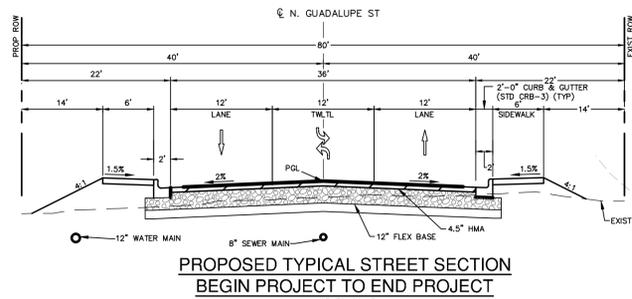


PAPE-DAWSON
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

LEGAL DESCRIPTION:
ABS: 5 SUR: H BRANCH 126.216 ACRES,
GUADALUPE COUNTY, TEXAS, (DOC. NO.
2017013004, O.P.R.G.C.T.) (134.00 ACRES)

ADDRESS:
3040 NORTH GUADALUPE STREET
SEGUIN, TX 78155

SHEET C0.00



LEGAL DESCRIPTION:
ABS. 5 SUR. H BRANCH 126.216 ACRES,
GUADALUPE COUNTY, TEXAS, (DOC. NO.
2017013004, O.P.R.G.C.T.) (134.03 ACRES)

ADDRESS:
3040 NORTH GUADALUPE STREET
SEGUIN, TX 78155

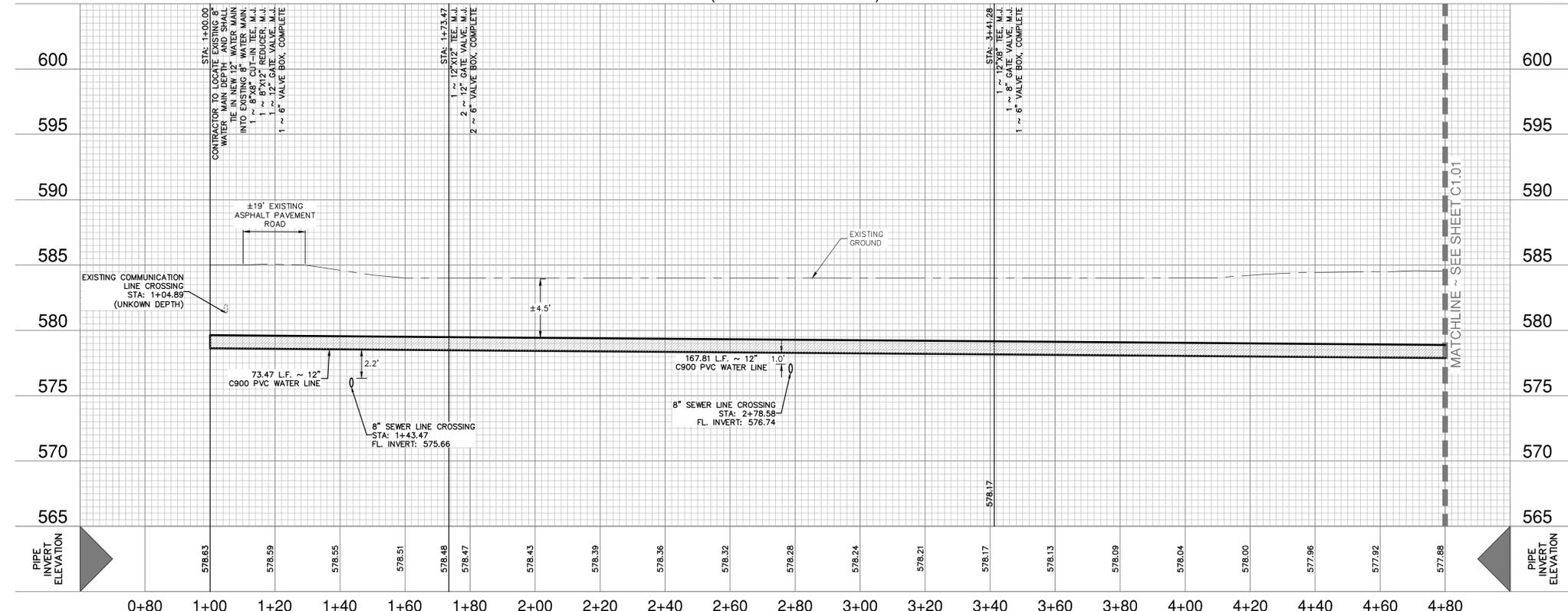
SCALE: 1" = 20'
0' 20' 40' 60'

LEGEND

	PROPERTY LINE
	EXISTING OVERHEAD UTILITY LINE
	EXISTING UTILITY POLE
	EXISTING UNDERGROUND COMMUNICATION LINE
	EXISTING WATER MAIN
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER LINE
	PROPOSED SEWER MANHOLE
	EXISTING EDGE OF PAVEMENT

PUBLIC WATER MAIN (STA. 1+00 TO 4+80)

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



NOTE
SEE SHEET C0.10 FOR ADDITIONAL GENERAL NOTES.

WATER NOTES:

- PROPOSED WATER MAINS AND LATERALS SHALL BE DR 18 C-900 PVC, UNLESS OTHERWISE NOTED IN PLANS.
- ALL PIPE FITTINGS SHALL HAVE CONCRETE THRUST BLOCKING (SEE UTILITY DETAILS SHEET, C3.00).
- CONTRACTOR SHALL LOCATE AND DETERMINE ELEVATION (VERIFY IF DEPTH IS SHOWN ON PLANS) OF ALL EXISTING UNDERGROUND UTILITIES A MINIMUM OF 500 FEET AHEAD OF TRENCHING. IF A UTILITY IS FOUND TO BE IN CONFLICT WITH PROPOSED GRADES, THE ENGINEER SHALL BE CONTACTED AND GRADES ADJUSTED TO AVOID CONFLICT.

CAUTION!!
EXISTING UTILITIES ARE LOCATED WITHIN THE LIMITS OF THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, VERIFYING THE EXACT LOCATION AND IDENTIFYING ANY AREAS OF CONFLICTS WITH EXISTING UTILITIES AND WILL NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS ARE FOUND.

CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

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

DATE	
NO.	REVISION
1/23/26	

PAPE-DAWSON
2000 HW LOOP #110 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

CURTIS F. LEF
PROFESSIONAL ENGINEER
94999

N. GUADALUPE ST. ~ PUBLIC WATER & SEWER
SEGUIN, TEXAS

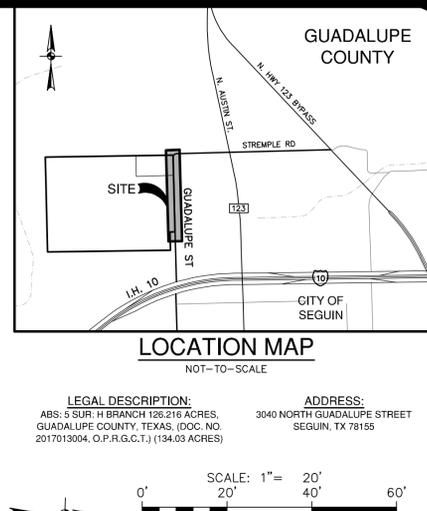
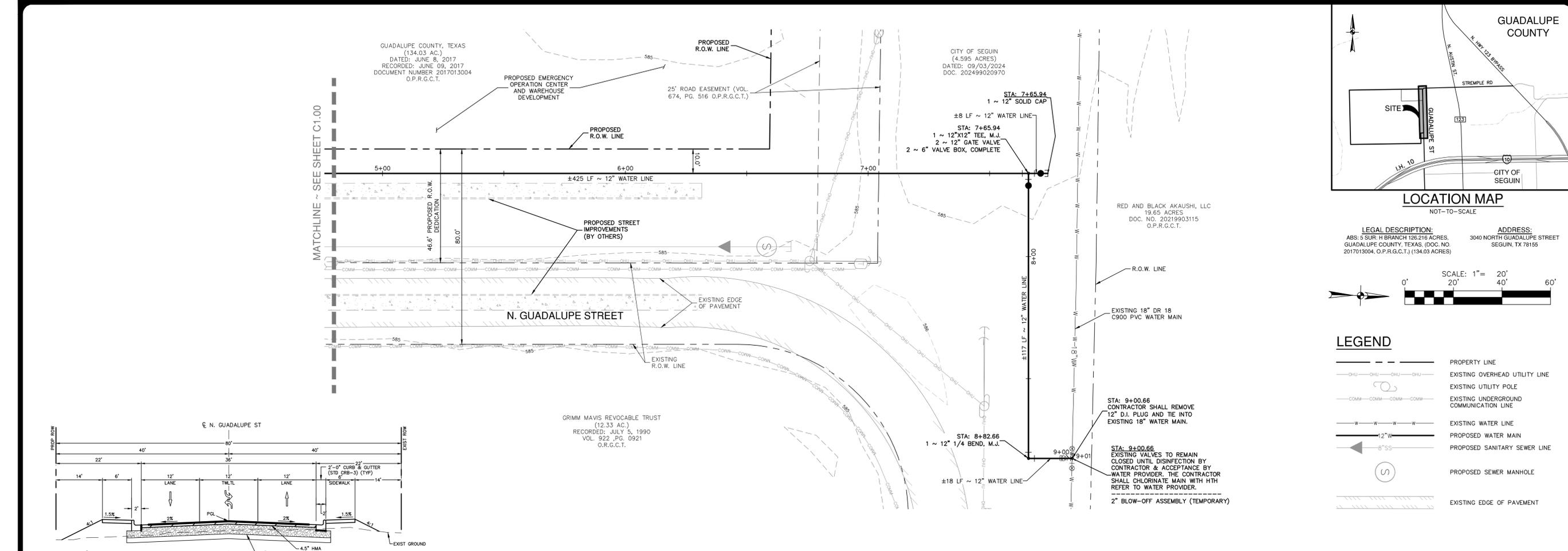
12" WATER MAIN - PLAN AND PROFILE (STA. 1+00 TO 4+80)

PLAT NO.	-
JOB NO.	13566-10
DATE	JANUARY 2026
DESIGNER	JF
CHECKED	DM DRAWN JF
SHEET	C1.00

Date: Jan 23, 2026, 1:57pm, User: JF, File: F:\13566\10\Design\Civil\WPP-1356600.dwg

Date: Jan 23, 2026, 1:57pm, User: JF, File: P:\15\166\10\Design\Civil\WPP-1356600.dwg

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE UNLESS OTHERWISE NOTED. Imagery © 2016, CAPCOG, Digital Globe, Texas Orthographic Program, USDA Farm Service Agency.

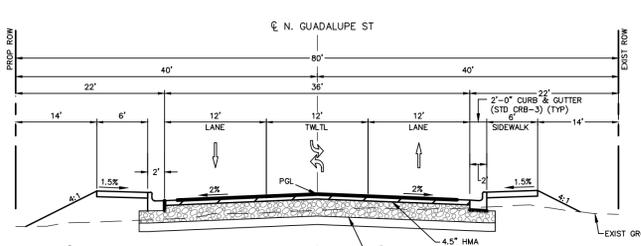


DATE: _____

NO. REVISION: _____

1/23/26

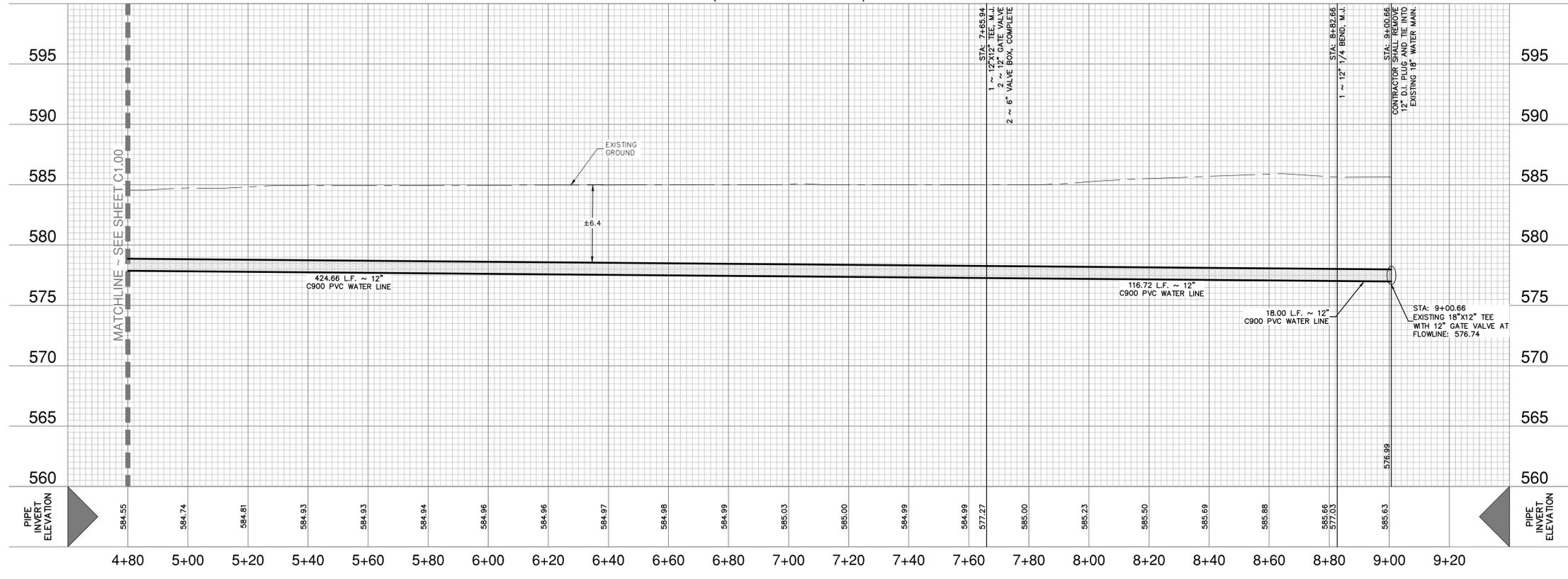
Curtis Lef



PROPOSED TYPICAL STREET SECTION
BEGIN PROJECT TO END PROJECT
NOT-TO-SCALE

PUBLIC WATER MAIN
(STA. 4+80 TO END)

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



NOTE

SEE SHEET C0.10 FOR ADDITIONAL GENERAL NOTES.

WATER NOTES:

1. PROPOSED WATER MAINS AND LATERALS SHALL BE DR 18 C-900 PVC, UNLESS OTHERWISE NOTED IN PLANS.
2. ALL PIPE FITTINGS SHALL HAVE CONCRETE THRUST BLOCKING (SEE UTILITY DETAILS SHEET, C3.00).
3. CONTRACTOR SHALL LOCATE AND DETERMINE ELEVATION (VERIFY IF DEPTH IS SHOWN ON PLANS) OF ALL EXISTING UNDERGROUND UTILITIES A MINIMUM OF 500 FEET AHEAD OF TRENCHING. IF A UTILITY IS FOUND TO BE IN CONFLICT WITH PROPOSED GRADES, THE ENGINEER SHALL BE CONTACTED AND GRADES ADJUSTED TO AVOID CONFLICT.

CAUTION!!

EXISTING UTILITIES ARE LOCATED WITHIN THE LIMITS OF THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, VERIFYING THE EXACT LOCATION AND IDENTIFYING ANY AREAS OF CONFLICTS WITH EXISTING UTILITIES AND WILL NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS ARE FOUND.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

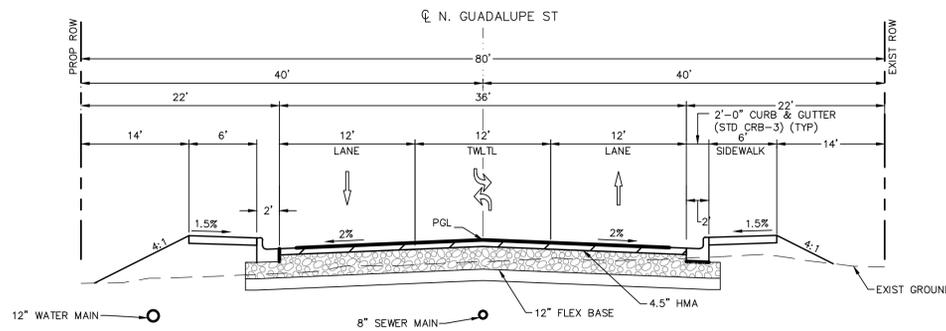
TRENCH EXCAVATION SAFETY PROTECTION

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

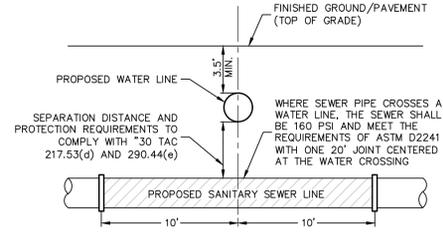
N. GUADALUPE ST. ~ PUBLIC WATER & SEWER
SEGUIN, TEXAS

12" WATER MAIN - PLAN AND PROFILE (STA. 4+80 TO END)

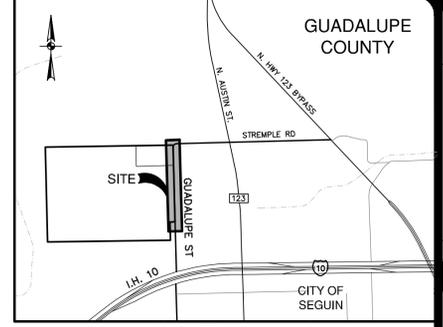
PLAT NO.	-
JOB NO.	13566-10
DATE	JANUARY 2026
DESIGNER	JF
CHECKED	DM
DRAWN	JF
SHEET	C1.01



**PROPOSED TYPICAL STREET SECTION
BEGIN PROJECT TO END PROJECT**
NOT-TO-SCALE



**TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL**
NOT-TO-SCALE



LOCATION MAP
NOT-TO-SCALE

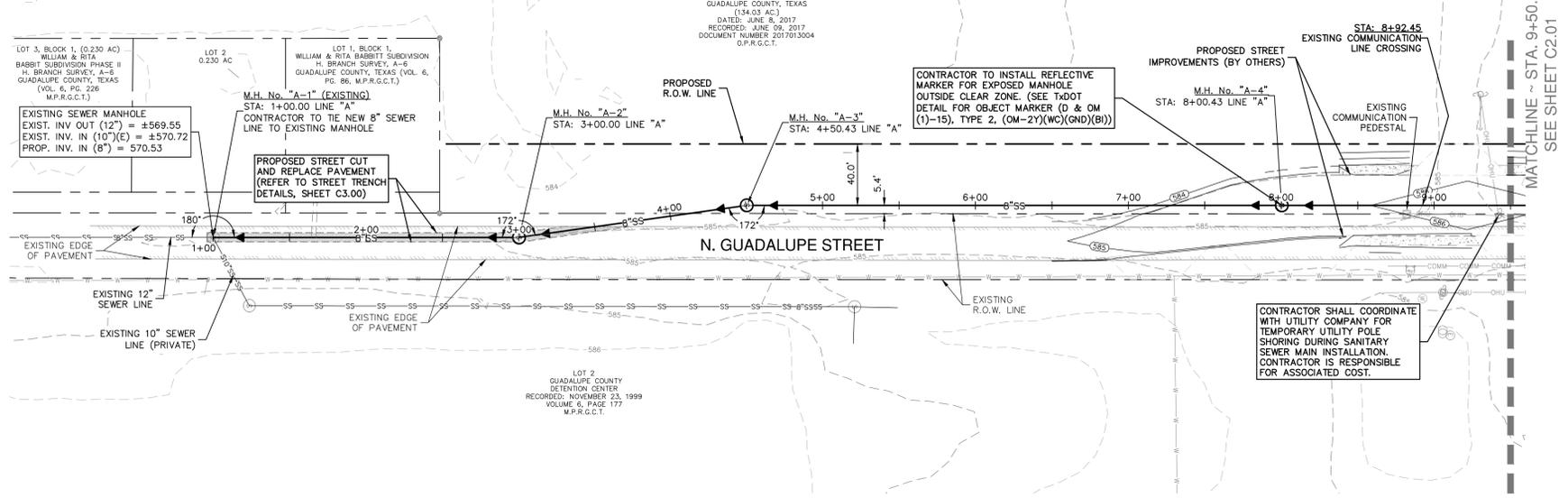
LEGAL DESCRIPTION:
ABS. 5 SUR. H BRANCH 126.216 ACRES,
GUADALUPE COUNTY, TEXAS, (DOC. NO.
2017013004, O.P.R.G.C.T.) (134.03 ACRES)

ADDRESS:
3040 NORTH GUADALUPE STREET
SEGUIN, TX 78155

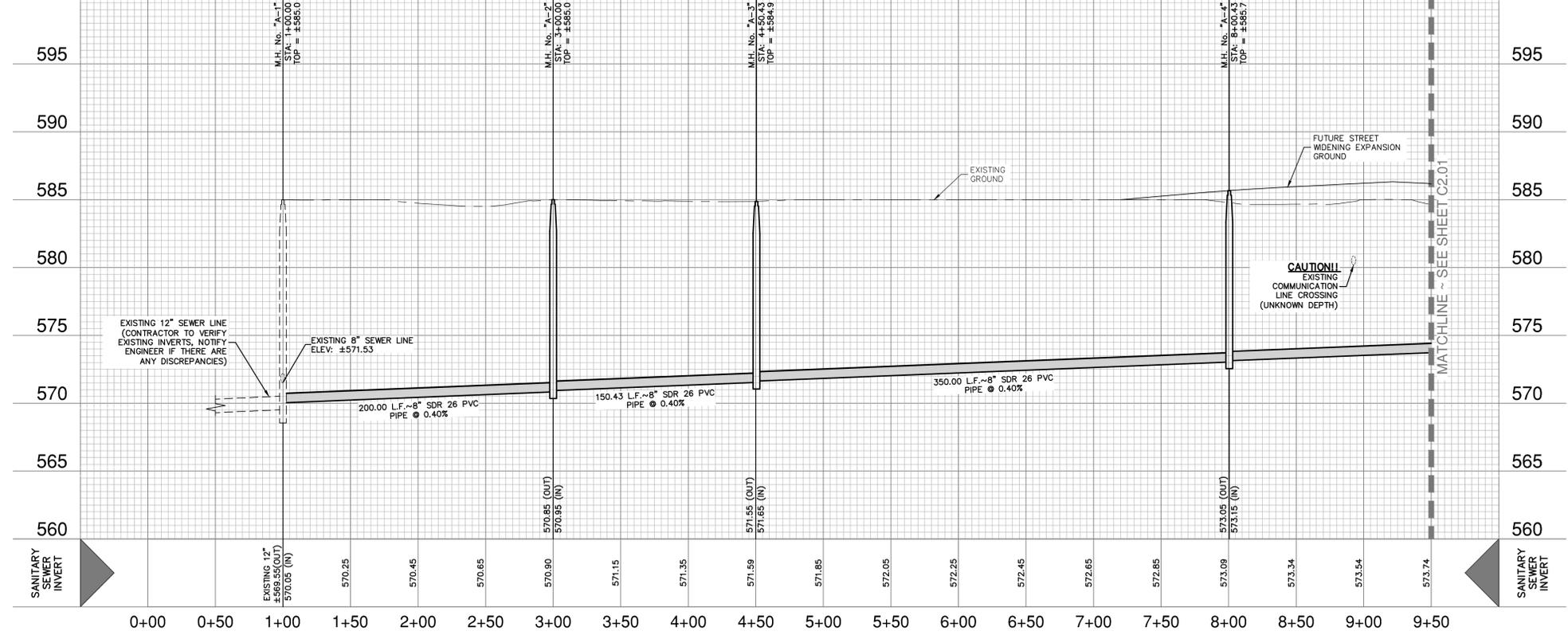


LEGEND

- — — — — PROPERTY LINE
- OHU — OHU — OHU — OHU — EXISTING OVERHEAD UTILITY LINE
- U — U — U — U — U — U — EXISTING UTILITY POLE
- COM — COM — COM — COM — EXISTING UNDERGROUND COMMUNICATION LINE
- W — W — W — W — W — W — EXISTING WATER MAIN
- SS — SS — SS — SS — SS — SS — EXISTING SEWER LINE
- S — S — S — S — S — S — PROPOSED SANITARY SEWER LINE
- M — M — M — M — M — M — PROPOSED SEWER MANHOLE
- — — — — EXISTING EDGE OF PAVEMENT



**PUBLIC SANITARY SEWER LINE
(STA. 1+00 TO 9+50)**
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



NOTE

SEE SHEET C0.10 FOR ADDITIONAL GENERAL NOTES.

CAUTION!!

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TRENCH EXCAVATION SAFETY PROTECTION

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DATE	
NO.	REVISION



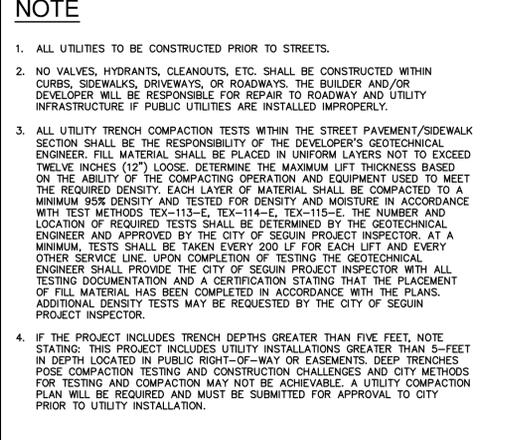
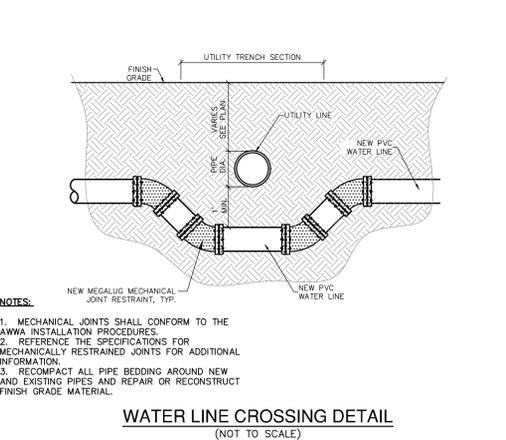
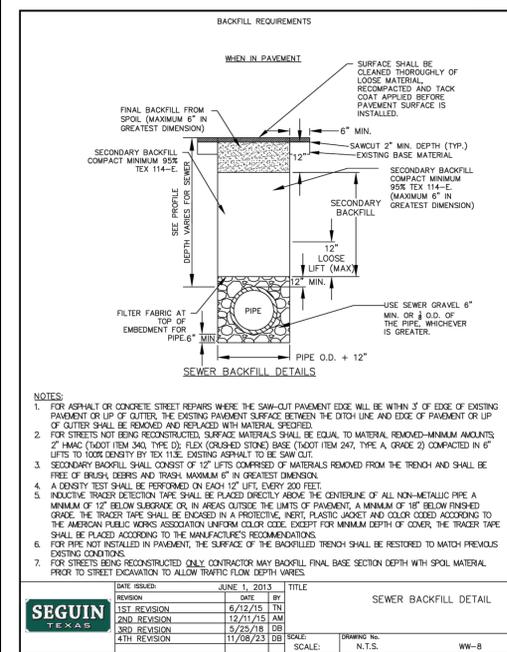
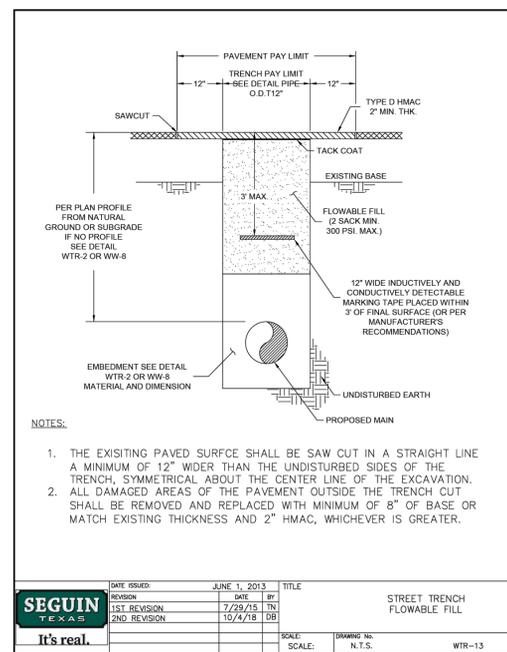
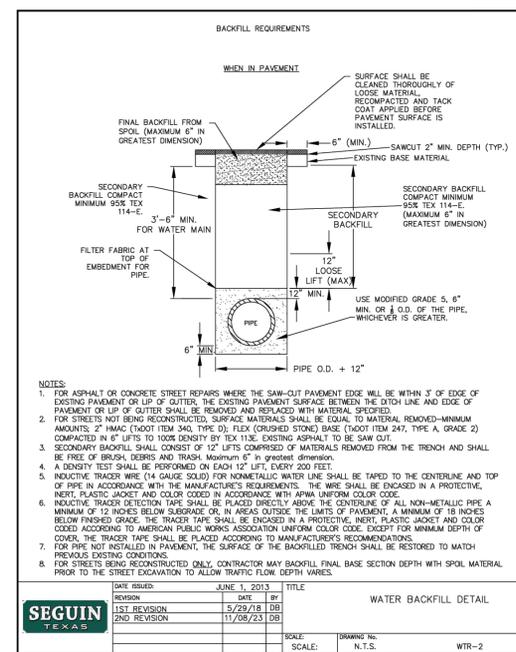
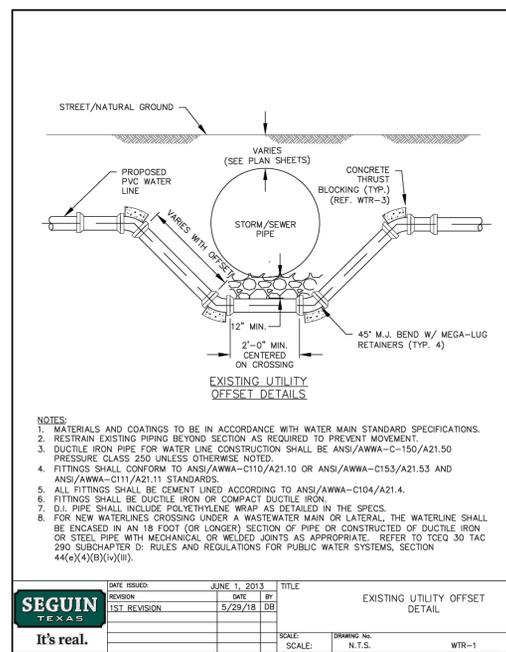
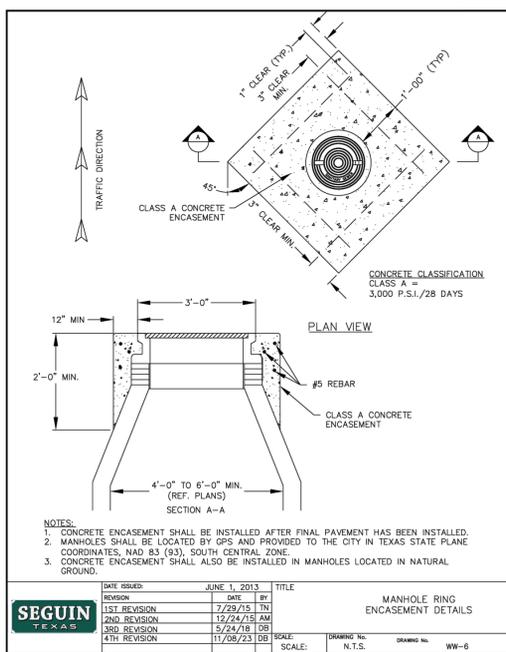
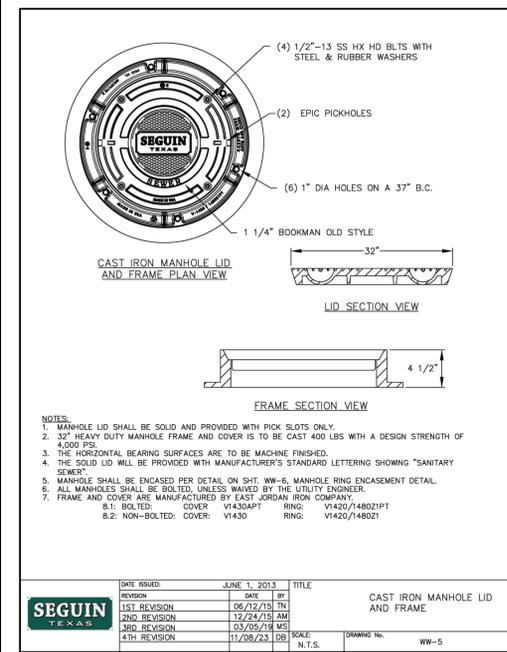
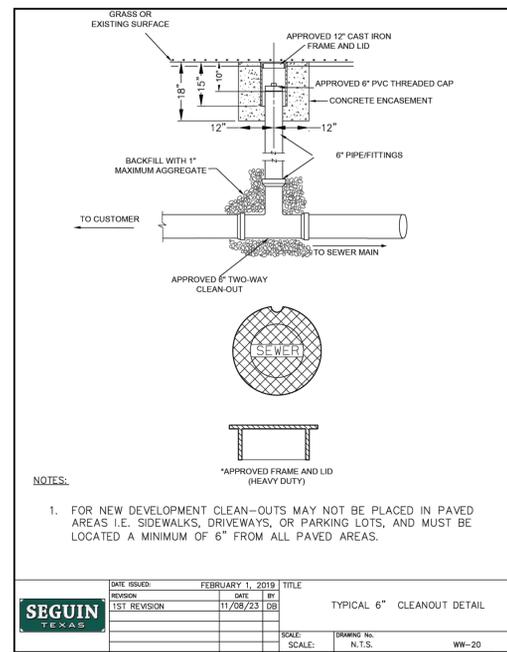
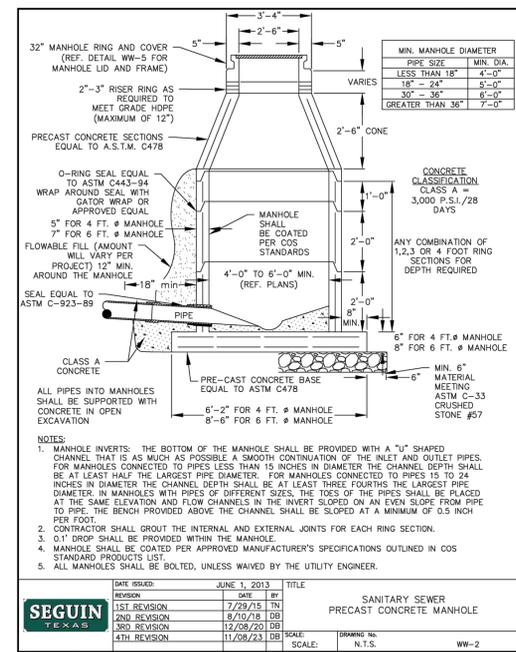
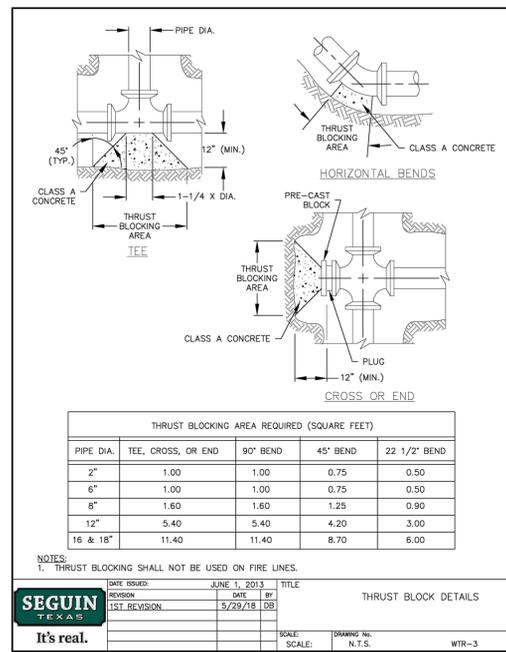
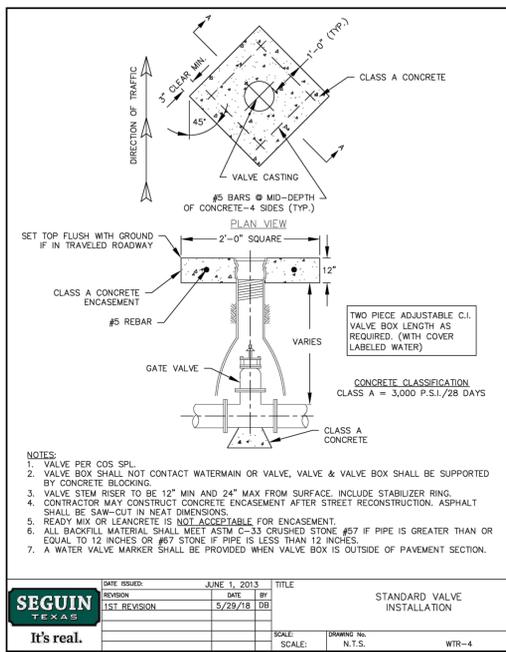
PAPE-DAWSON
2000 NW LOOP #110 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1028800

N. GUADALUPE ST. ~ PUBLIC WATER & SEWER
SEGUIN, TEXAS

8" SANITARY SEWER - PLAN AND PROFILE (STA. 1+00 TO 9+50)

PLAT NO.	-
JOB NO.	13566-10
DATE	JANUARY 2026
DESIGNER	JF
CHECKED	DM
DRAWN	JF
SHEET	C2.00

Date: Jan 23, 2026, 1:58pm, User: JF, File: F:\13566\10 Design\Civil\SSPP-1356600.dwg



DATE: _____

NO. REVISION: _____

1/23/26

STATE OF TEXAS
 PROFESSIONAL ENGINEER
 94999
 PAPE-DAWSON

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.0000
 TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

PAPE-DAWSON
 SEGUIN, TEXAS

UTILITY DETAILS

PLAT NO. -
 JOB NO. 13566-10
 DATE JANUARY 2026
 DESIGNER JF
 CHECKED DM DRAWN JF
 SHEET C3.00

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TRAFFIC CONTROL PLAN NARRATIVE
3	TRAFFIC CONTROL PLAN TYPICAL SECTIONS
4	TRAFFIC CONTROL PLAN PHASING LAYOUT
5	TRAFFIC CONTROL PLAN PHASE 1 LAYOUT
6	TRAFFIC CONTROL PLAN PHASE 1 STEP 1 DETOUR MAP
7	TRAFFIC CONTROL PLAN PHASE 2 LAYOUT
8	TRAFFIC CONTROL PLAN PHASE 2 DETOUR MAP
9-20	BC(1 THRU 12) -21
21	TCP(SC-8)-22
22	TREATMENT FOR VARIOUS EDGE CONDITIONS

PUBLIC WATER & SEWER
TRAFFIC CONTROL PLANS FOR
PROPOSED WATER AND SEWER EXTENSIONS

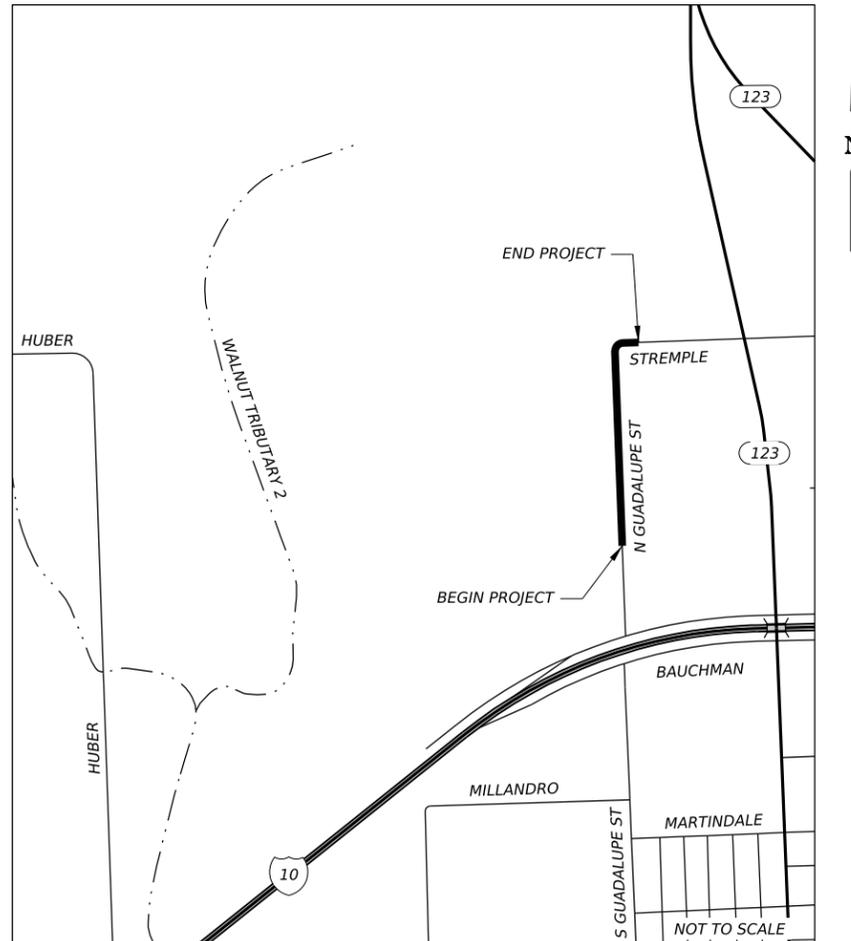
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 A.D.T. (2019)= 614

NORTH GUADALUPE ST
GUADALUPE COUNTY

NET LENGTH OF PROJECT = 1,790.43 FT. = 0.339 MI.
 LIMITS: FROM 800' NORTH OF I-10 TO 1100' WEST OF SH 123

REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH
 BC (1)- 07 THRU BC (12)- 07 AND THE "TEXAS
 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

FEMA: ZONE A, WALNUT TRIBUTARY 2
 FIRM: 48187C0280G, eff. 3/27/2024



EXCEPTIONS: NONE
 EQUATIONS: NONE
 RAILROAD CROSSINGS: NONE

CITY COUNCIL

- DONNA DODGEN, MAYOR
- JOE REA
- DAVID EVELD
- JIM LIEVENS
- JOHN CARLSSON
- PAUL GAYTAN
- MONICA CARTER
- JASON BIESENBACH
- BILL KELLER

CITY MANAGER

STEVE PARKER

DEPUTY CITY MANAGER

RICK CORTES



John A. Tyler
 JOHN A. TYLER, P.E. 1/27/2026
 DATE

PAPE-DAWSON

2000 NW Loop 410 | San Antonio, TX 78213 | 210.375.9000
 Texas Engineering Firm #470 | Texas Surveying Firm #10028800



It's real.

TRAFFIC CONTROL PLAN SEQUENCE OF WORK

- (1) THIS PROJECT WILL BE CONSTRUCTED IN TWO (2) PHASES. BEFORE THE COMMENCEMENT OF EACH PHASE, INSTALL ADVANCE WARNING SIGNS, TEMPORARY SIGNS AND BARRICADES PER TXDOT STANDARD BC (1)-21 THROUGH BC (12)-21 AND/OR AS DIRECTED/APPROVED BY THE ENGINEER. DAILY LANE CLOSURES WILL BE USED IN ACCORDANCE WITH STATE TCP STANDARDS. DROP OFF CONDITIONS OF GREATER THAN 2" MUST HAVE A 3:1 SLOPE AT THE END OF EACH DAY, AS WELL AS THROUGHOUT THE PROJECT WHERE ACCESS TO ADJACENT PROPERTIES IS ALLOWED TO DRIVEWAYS AND SIDE STREETS.
- (2) PREPARING ROW / REMOVAL OF EXISTING ITEMS TO BE DONE ONLY IN AREAS WHERE WORK IS OCCURRING, AS PER THE PHASES NOTED BELOW.
- (3) A BRIEF DESCRIPTION OF THESE PHASES ARE AS FOLLOWS:

PHASE 1

THE INTENT OF THIS PHASE IS TO CONSTRUCT ALL UTILITIES WITHIN THE EXISTING PAVEMENT. THIS PHASE WILL BE COMPLETED IN THREE (3) STEPS.

STEP 1

- a) INSTALL TEMPORARY EROSION CONTROL MEASURES, ADVANCED WORK ZONE SIGNAGE, AND FULL CLOSURE DETOUR SIGNAGE. THE ROAD WILL BE CLOSED TO THROUGH TRAFFIC AT THE WORK ZONE. SEE DETOUR PLAN FOR PHASE 1 STEP 1.
- b) TRENCH AND INSTALL THE SEWER MAIN TO A POINT BETWEEN MANHOLES A-2 AND A-3. CONTRACTOR TO LIMIT THE LENGTH OF INSTALLATION TO ENSURE ONE DRIVEWAY TO 2620 N GUADALUPE ST IS STILL ACCESSIBLE.
- c) CONTRACTOR TO PERMANENTLY REPAIR EXISTING PAVEMENT SECTION AND DRIVEWAY AFTER TRENCHING FOR THE SEWER MAIN TO ALLOW LANES AND DRIVEWAY TO BE REOPENED BEFORE MOVING TO THE NEXT STEP.

STEP 2

- a) THE ROAD WILL BE CLOSED TO THROUGH TRAFFIC AT THE WORK ZONE. SEE DETOUR PHASE 1 STEP 2. TRENCH AND INSTALL THE SEWER MAIN FROM POINT IN STEP 1 TO MANHOLE A-3. CONTRACTOR TO ENSURE ONE DRIVEWAY TO 2620 N GUADALUPE ST IS STILL ACCESSIBLE.
- b) CONTRACTOR TO PERMANENTLY REPAIR EXISTING PAVEMENT SECTION AND DRIVEWAY AFTER TRENCHING FOR THE SEWER MAIN TO ALLOW LANES AND DRIVEWAY TO BE REOPENED BEFORE MOVING TO THE NEXT STEP.

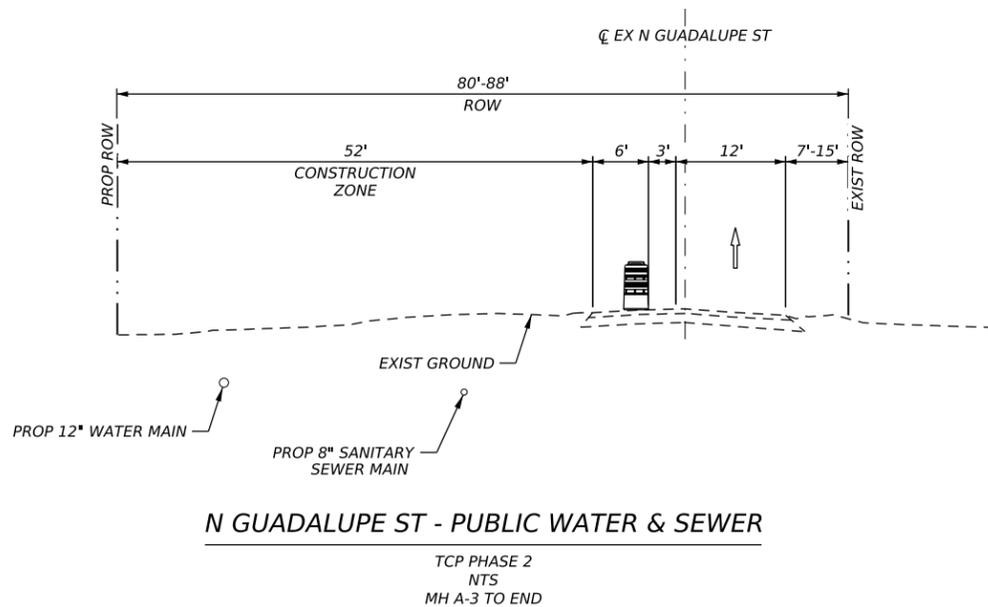
STEP 3

- a) INSTALL DETOUR SIGNAGE FOR WATER MAIN CROSSING. THE ROAD WILL BE CLOSED TO THROUGH TRAFFIC AT THE WORK ZONE. SEE DETOUR PLAN FOR PHASE 1 STEP 3.
- b) TRENCH AND INSTALL THE WATER MAIN CROSSING (STA 1+00 TO 1+74).
- c) CONTRACTOR TO PERMANENTLY REPAIR EXISTING PAVEMENT SECTION AND DRIVEWAY AFTER TRENCHING FOR THE WATER MAIN TO ALLOW LANES AND DRIVEWAY TO BE REOPENED BEFORE MOVING TO THE NEXT STEP.

PHASE 2

THE INTENT OF THIS PHASE IS TO CONSTRUCT THE REMAINDER OF THE SEWER AND WATER MAINS ALONG N GUADALUPE STREET.

- a) INSTALL BARRIER AND SOUTH BOUND GUADALUPE ST DETOUR SIGNAGE.
- b) INSTALL THE REMAINDER OF THE SEWER MAIN, MANHOLES FROM MH A-3 TO MH A-7, AND WATER MAIN FROM STATION 1+74 TO END.
- c) COMPLETE ALL GRADING AND PERMANENT SEEDING.
- d) PERFORM FINAL CLEANUP



N GUADALUPE ST - PUBLIC WATER & SEWER

TCP PHASE 2
NTS
MH A-3 TO END

DESIGN



Claudia M. Mehallin
CLAUDIA M. MEHALLIN, P.E. 1/27/2026
DATE

APPROVAL



John A. Tyler
JOHN A. TYLER, P.E. 1/27/2026
DATE

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON

2000 NW Loop 410 | San Antonio, TX 78213 | 210.375.9000
Texas Engineering Firm #470 | Texas Surveying Firm #10028800



N GUADALUPE ST - PUBLIC WATER & SEWER

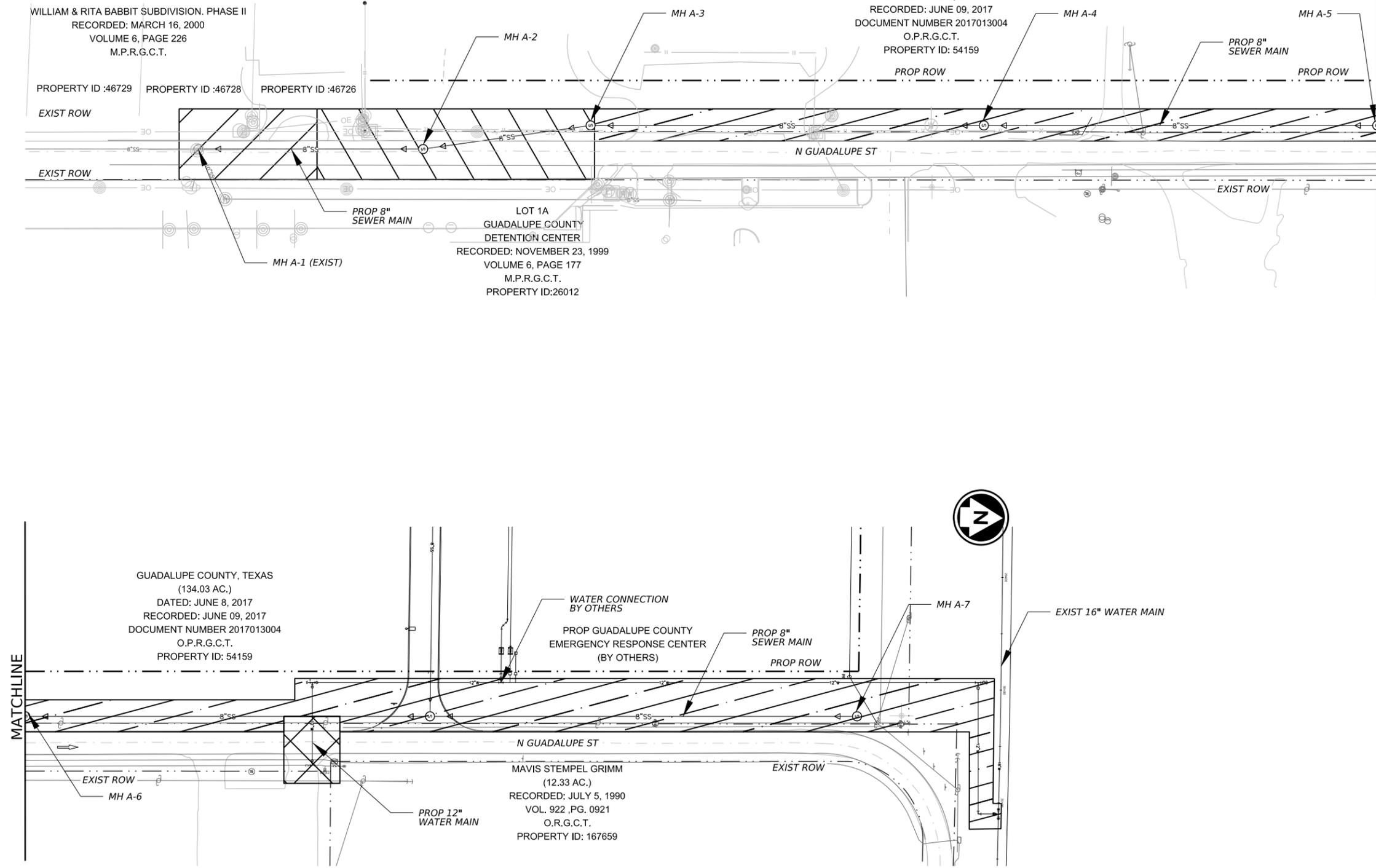
TRAFFIC CONTROL
PLAN NARRATIVE
AND TYPICAL SECTION

SHEET 1 OF 1

60% SUBMITTAL	PROJECT NO. : 13566-10	DATE: 1/27/2026
DRWN. BY: BH	DSGN. BY: BH	CHKD. BY: CM
		SHEET NO. 2

PLOT SCALE: 0.0833" = 1'-0" DGN MODEL: Default USER: david.holguin PRINTED BY: david.holguin PRINTED ON: 1/27/2026 3:27:43 PM FILENAME: \\pape-dawson\pdpd-legacy\IP-Drive\135166\10\Design\ORD\14-Design\Plan Set\02-TCP\1356610_TCP_NARRATIVE.dgn

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LEGEND

- EXIST ROW
- - - PROP ROW
- PHASE 1 STEP 1
- PHASE 1 STEP 2
- PHASE 1 STEP 3
- PHASE 2
- EXIST MANHOLE
- PROP MANHOLE

DESIGN

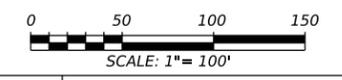


Claudia M. Medellin
 CLAUDIA M. MEDELLIN, P.E. 1/27/2026
 DATE

APPROVAL



John A. Tyler
 JOHN A. TYLER, P.E. 1/27/2026
 DATE



REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON
 2000 NW Loop 410 | San Antonio, TX 78213 | 210.375.9000
 Texas Engineering Firm #470 | Texas Surveying Firm #10028800

SEGUIN TEXAS
 It's real.

N GUADALUPE ST - PUBLIC WATER & SEWER
 TRAFFIC CONTROL PLAN
 PHASING LAYOUT

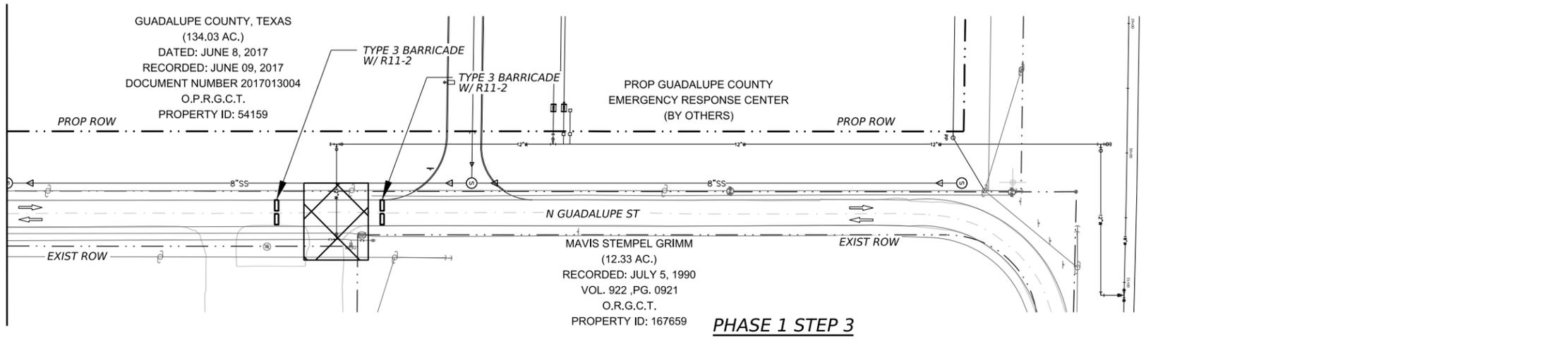
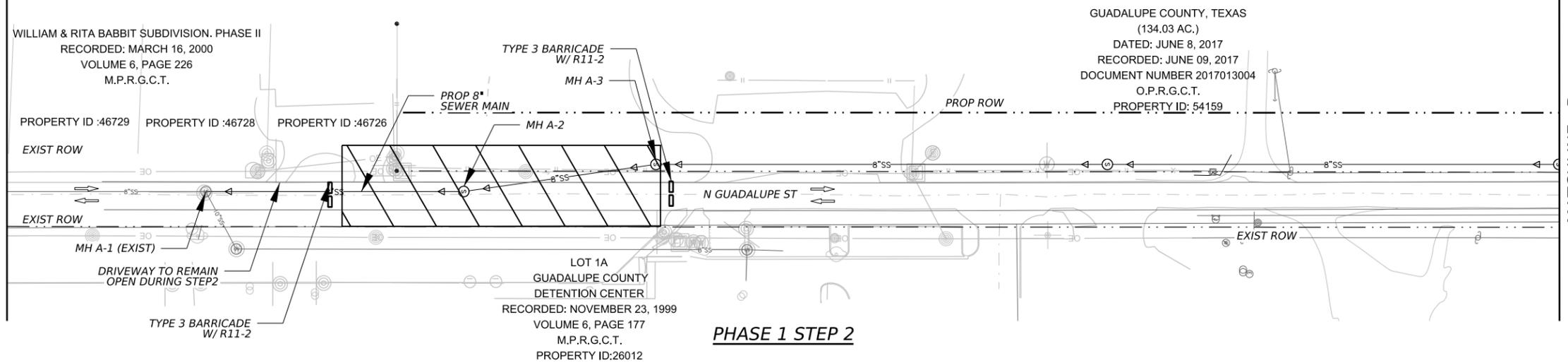
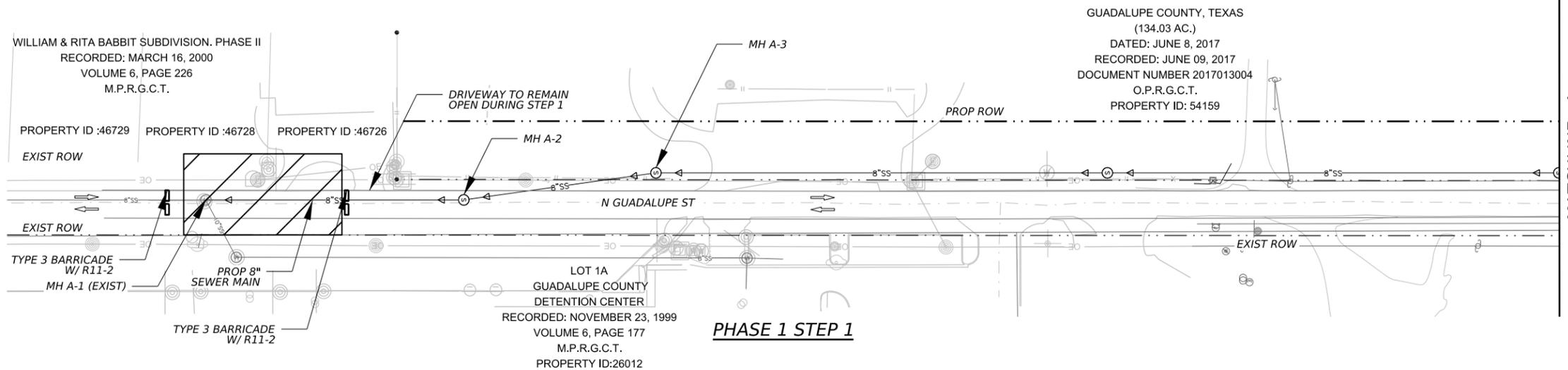
SHEET 1 OF 1

60% SUBMITTAL	PROJECT NO. : 13566-10	DATE: 1/27/2026
DRWN. BY: BH	DSGN. BY: BH	CHKD. BY: CM
		SHEET NO. 4



LEGEND

- EXIST ROW
- PROP ROW
- ← TRAFFIC FLOW ARROW
- PHASE 1 STEP 1
- PHASE 1 STEP 2
- PHASE 1 STEP 3



DESIGN

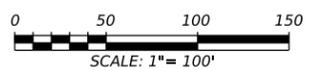
CLAUDIA M. MEDELLIN
110369
LICENSED
PROFESSIONAL ENGINEER

Claudia M. Medellin
CLAUDIA M. MEDELLIN, P.E. DATE 1/27/2026

APPROVAL

JOHN A. TYLER
105193
LICENSED
PROFESSIONAL ENGINEER

John A. Tyler
JOHN A. TYLER, P.E. DATE 1/27/2026



REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON

2000 NW Loop 410 | San Antonio, TX 78213 | 210.375.9000
Texas Engineering Firm #470 | Texas Surveying Firm #10028800



It's real.



N GUADALUPE ST - PUBLIC WATER & SEWER

**TRAFFIC CONTROL PLAN
PHASE 1 LAYOUT**

SHEET 1 OF 1

60% SUBMITTAL	PROJECT NO. : 13566-10	DATE: 1/27/2026
DRWN. BY: BH	DSGN. BY: BH	CHKD. BY: CM
		SHEET NO. 5

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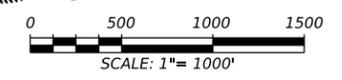


Legend:

- A: M4-12T VARIABLE X 12"
- B: M4-10L 48"X18"
- C: M4-10R 48"X18"
- D: R11-4 60"X30"
- E: M4-8A 24"X18"
- F: R11-3A 60"X30"
- G: CW20-2B 36"X36"
- H: M4-9S 30"X24"
- ROAD CLOSED .25 MILES AHEAD LOCAL TRAFFIC ONLY
- DETOUR 1000 FT
- DETOUR
- ROAD CLOSED TO THRU TRAFFIC
- END DETOUR
- SIGN
- TRAFFIC FLOW ARROW

DESIGN
 STATE OF TEXAS
 CLAUDIA M. MEDELLIN
 110369
 LICENSED PROFESSIONAL ENGINEER
 Claudia M. Medellin
 CLAUDIA M. MEDELLIN, P.E.
 1/27/2026
 DATE

APPROVAL
 STATE OF TEXAS
 JOHN A. TYLER
 105193
 LICENSED PROFESSIONAL ENGINEER
 John A. Tyler
 JOHN A. TYLER, P.E.
 1/27/2026
 DATE



REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON

2000 NW Loop 410 | San Antonio, TX 78213 | 210.375.9000
 Texas Engineering Firm #470 | Texas Surveying Firm #10028800



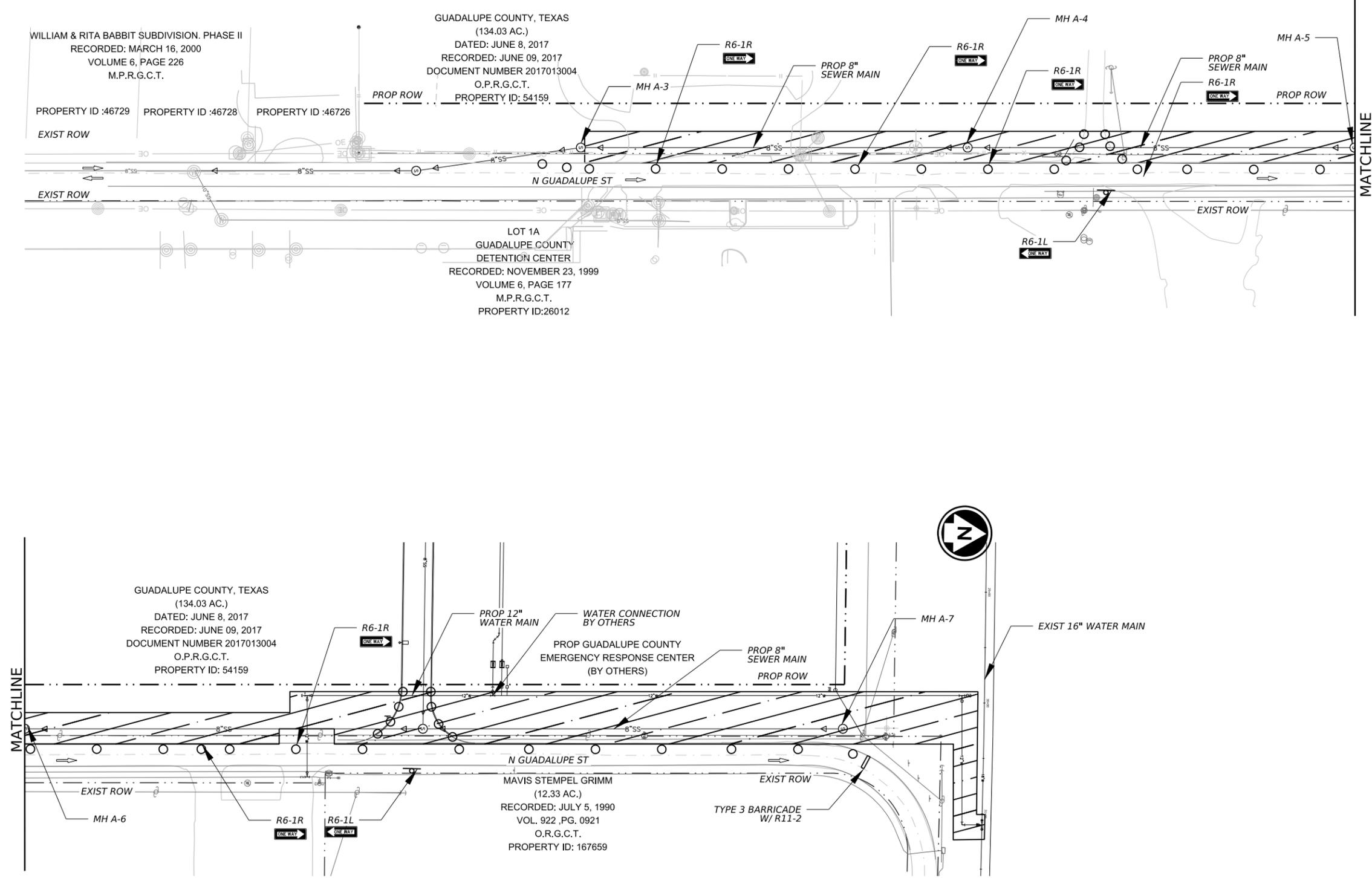
N GUADALUPE ST - PUBLIC WATER & SEWER

**TRAFFIC CONTROL PLAN
 PHASE 1 STEP 1-3
 DETOUR MAP**

SHEET 1 OF 1

60% SUBMITTAL	PROJECT NO. : 13566-10	DATE: 1/27/2026
DRWN. BY: BH	DSGN. BY: BH	CHKD. BY: CM
		SHEET NO. 6

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LEGEND

- EXIST ROW
- - - PROP ROW
- ← TRAFFIC FLOW ARROW
- PHASE 2
- ○ BARRELS (60' MAX SPACING)

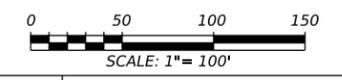
NOTES:
 1. CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS TO MAINTAIN DRIVEWAY ACCESS.

DESIGN

Claudia M. Mehallin 1/27/2026
 CLAUDIA M. MEHALLIN, P.E. DATE

APPROVAL

John A. Tyler 1/27/2026
 JOHN A. TYLER, P.E. DATE



REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON

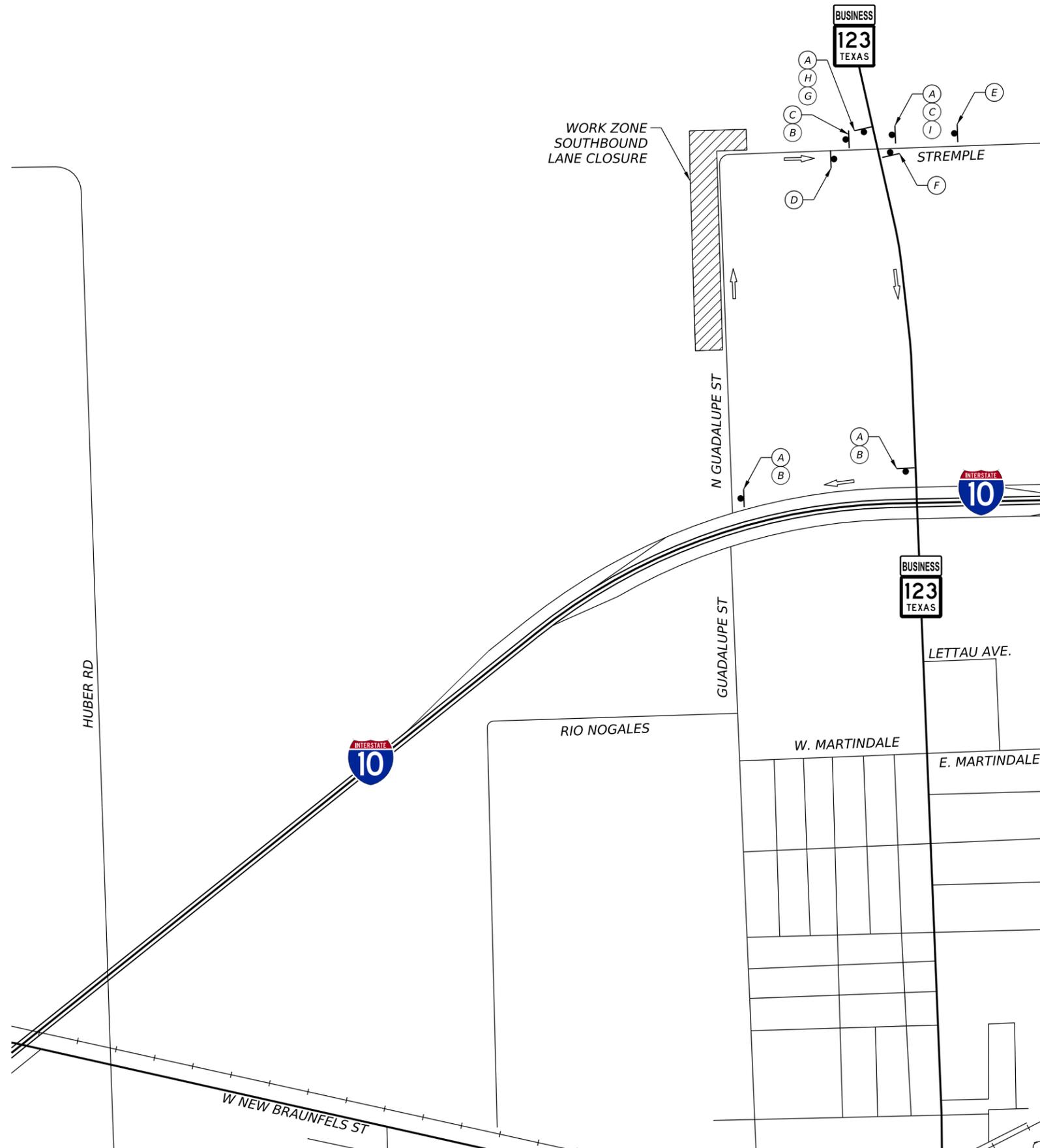
2000 NW Loop 410 | San Antonio, TX 78213 | 210.375.9000
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N GUADALUPE ST - PUBLIC WATER & SEWER
 TRAFFIC CONTROL PLAN
 PHASE 2 LAYOUT

SHEET 1 OF 1

60% SUBMITTAL	PROJECT NO. : 13566-10	DATE: 1/27/2026
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		SHEET NO. 7

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Legend

(A) M4-12T VARIABLE X 12"	(B) M4-10R 48"X18"	(C) R11-4 60"X30"	(D) M4-8A 24"X18"	(E) CW20-3D 48"X48"	(F) R3-1 48"X48"	(G) R3-2 48"X48"	(H) M4-9S 30"X24"	(I) M4-10L 48"X18"	ROAD CLOSED AHEAD	NO LEFT TURN	NO RIGHT TURN	DETOUR (up arrow)	DETOUR (down arrow)	DETOUR (left arrow)	SIGN	TRAFFIC FLOW ARROW
---------------------------	--------------------	-------------------	-------------------	---------------------	------------------	------------------	-------------------	--------------------	-------------------	--------------	---------------	-------------------	---------------------	---------------------	------	--------------------

DESIGN

STATE OF TEXAS
 CLAUDIA M. MEDELLIN
 110369
 LICENSED PROFESSIONAL ENGINEER
Claudia M. Medellin 1/27/2026
 CLAUDIA M. MEDELLIN, P.E. DATE

APPROVAL

STATE OF TEXAS
 JOHN A. TYLER
 105193
 LICENSED PROFESSIONAL ENGINEER
John A. Tyler 1/27/2026
 JOHN A. TYLER, P.E. DATE

0 500 1000 1500
 SCALE: 1" = 1000'

REV. NO.	DATE	DESCRIPTION	BY

PAPE-DAWSON
 2000 NW Loop 410 | San Antonio, TX 78213 | 210.375.9000
 Texas Engineering Firm #470 | Texas Surveying Firm #10028800

SEGUIN TEXAS
 It's real.

THE STATE OF TEXAS
 GUADALUPE COUNTY

**N GUADALUPE ST - PUBLIC WATER & SEWER
 TRAFFIC CONTROL PLAN
 PHASE 2
 DETOUR MAP**

SHEET 1 OF 1

60% SUBMITTAL	PROJECT NO. : 13566-10	DATE: 1/27/2026
DRWN. BY: BH	DSGN. BY: BH	CHKD. BY: CM
SHEET NO.		8

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BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
7. The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
12. The Engineer has the final decision on the location of all traffic control devices.
13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY NOTES:

1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.
2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS

SHEET 1 OF 12



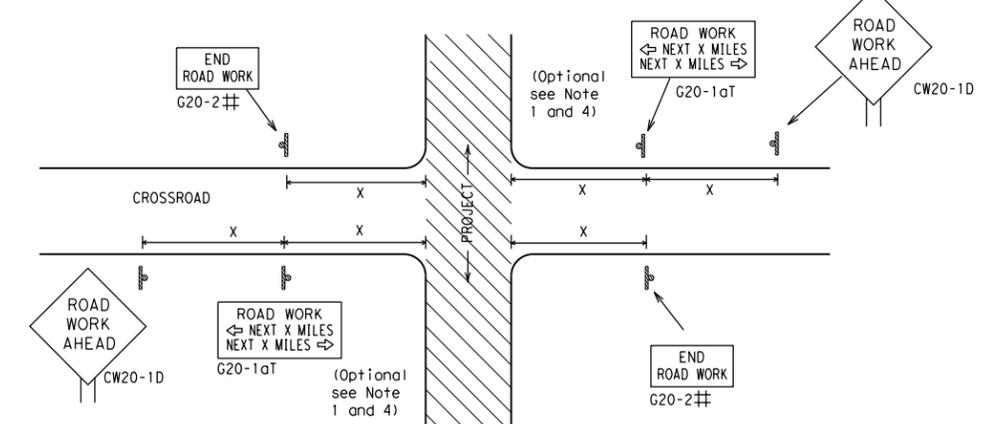
**BARRICADE AND CONSTRUCTION
 GENERAL NOTES
 AND REQUIREMENTS**

BC (1) - 21

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© TxDOT	November 2002	CONT	SECT	JOB	HIGHWAY				
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9-07	8-14	DIST	COUNTY			SHEET NO.			
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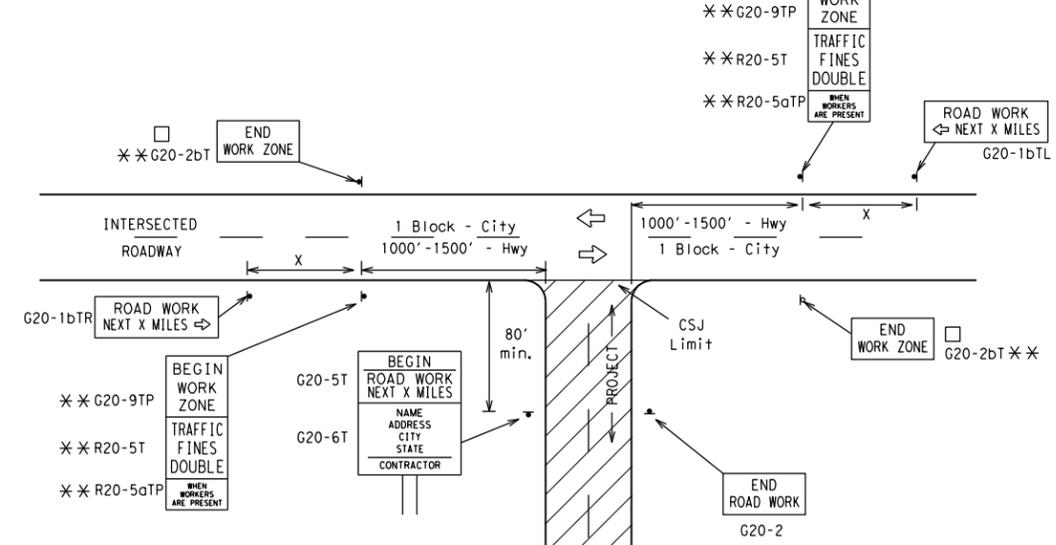
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TYPICAL LOCATION OF CROSSROAD SIGNS



- ## May be mounted on back of "ROAD WORK AHEAD" (CW20-1D) sign with approval of Engineer. (See note 2 below)
- The typical minimum signing on a crossroad approach should be a "ROAD WORK AHEAD" (CW20-1D) sign and a (G20-2) "END ROAD WORK" sign, unless noted otherwise in plans.
 - The Engineer may use the reduced size 36" x 36" ROAD WORK AHEAD (CW20-1D) sign mounted back to back with the reduced size 36" x 18" "END ROAD WORK" (G20-2) sign on low volume crossroads (see Note 4 under "Typical Construction Warning Sign Size and Spacing"). See the "Standard Highway Sign Designs for Texas" manual for sign details. The Engineer may omit the advance warning signs on low volume crossroads. The Engineer will determine whether a road is low volume as per TMUTCD Part 5. This information shall be shown in the plans.
 - Based on existing field conditions, the Engineer/Inspector may require additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate signs. When additional signs are required, these signs will be considered part of the minimum requirements. The Engineer/Inspector will determine the proper location and spacing of any sign not shown on the BC sheets, Traffic Control Plan sheets or the Work Zone Standard Sheets.
 - The "ROAD WORK NEXT X MILES" (G20-1aT) sign shall be required at high volume crossroads to advise motorists of the length of construction in either direction from the intersection. The Engineer will determine whether a roadway is considered high volume.
 - Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
 - When work occurs in the intersection area, appropriate traffic control devices, as shown elsewhere in the plans or as determined by the Engineer/Inspector, shall be in place.

T-INTERSECTION



CSJ LIMITS AT T-INTERSECTION

- The Engineer will determine the types and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
- If construction closes the road at a T-intersection, the Contractor shall place the "CONTRACTOR NAME" (G20-6T) sign behind the Type 3 Barricades for the road closure (see BC(10) also). The "ROAD WORK NEXT X MILES" left arrow (G20-1bTL) and "ROAD WORK NEXT X MILES" right arrow (G20-1bTR) signs shall be replaced by the detour signing called for in the plans.

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING

Sign Number or Series	SIZE		SPACING	
	Conventional Road	Expressway/Freeway	Posted Speed MPH	Sign Δ Spacing "x" Feet (Apprx.)
CW20 ⁴	48" x 48"	48" x 48"	30	120
CW21			35	160
CW22			40	240
CW23			45	320
CW25			50	400
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"	55	500 ²
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" x 48"	60	600 ²
			65	700 ²
			70	800 ²
			80	1000 ²
*			*	* ³

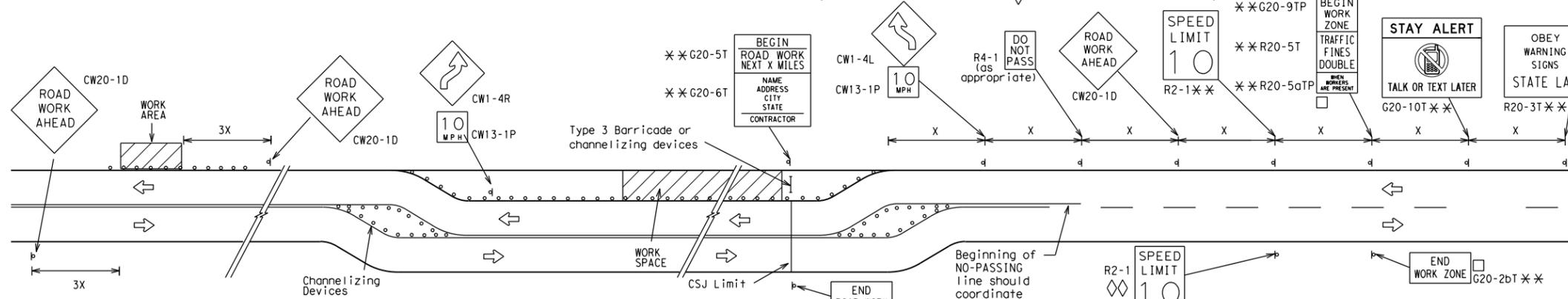
* For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

Δ Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

GENERAL NOTES

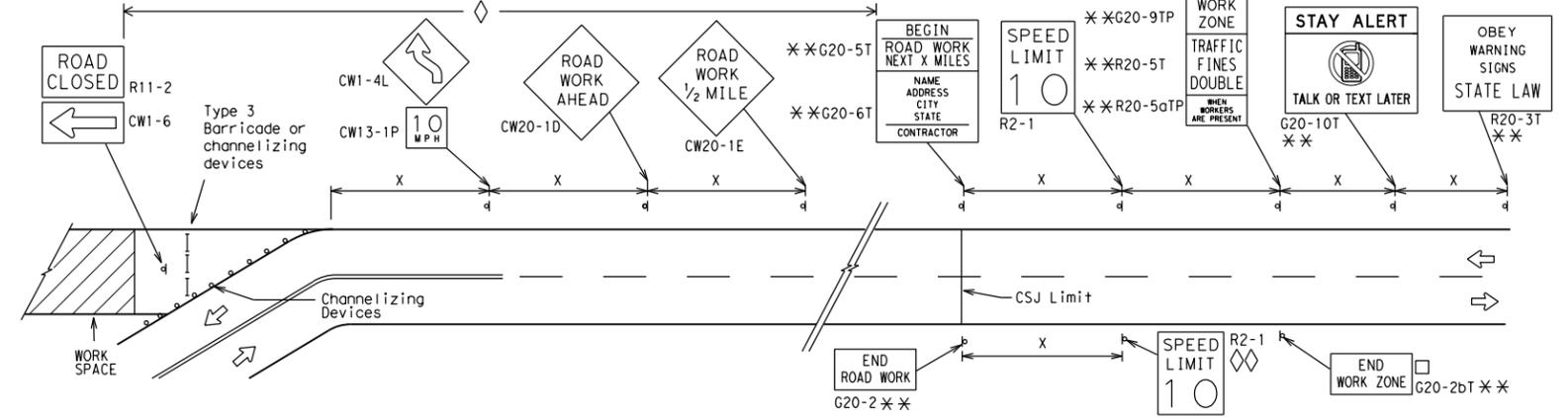
- Special or larger size signs may be used as necessary.
- Distance between signs should be increased as required to have 1500 feet advance warning.
- Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 36" x 36" "ROAD WORK AHEAD" (CW20-1D) signs may be used on low volume crossroads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Crossroad Signs".
- Only diamond shaped warning sign sizes are indicated.
- See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS

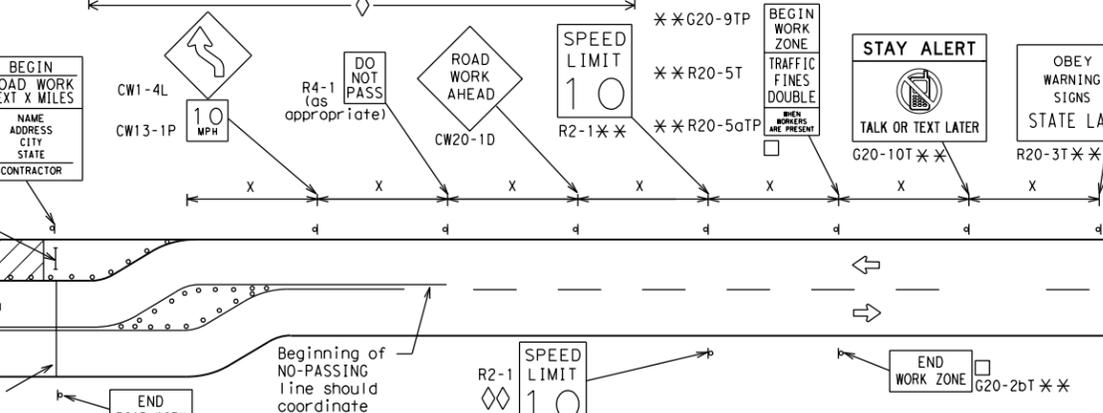


When extended distances occur between minimal work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD" (CW20-1D) signs are placed in advance of these work areas to remind drivers they are still within the project limits. See the applicable TCP sheets for exact location and spacing of signs and channelizing devices.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS



NOTES

- The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES" (G20-5T) sign for each specific project. This distance shall replace the "x" and shall be rounded to the nearest whole mile with the approval of the Engineer. No decimals shall be used.
- The "BEGIN WORK ZONE" (G20-9TP) and "END WORK ZONE" (G20-2bT) shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.
- CSJ limit signing is required for highway construction and maintenance work, with the exception of mobile operations.
- Area for placement of "ROAD WORK AHEAD" (CW20-1D) sign and other signs or devices as called for on the Traffic Control Plan.
- Contractor will install a regulatory speed limit sign at the end of the work zone.

LEGEND

—	Type 3 Barricade
○ ○ ○	Channelizing Devices
■	Sign
X	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

SHEET 2 OF 12



BARRICADE AND CONSTRUCTION PROJECT LIMIT

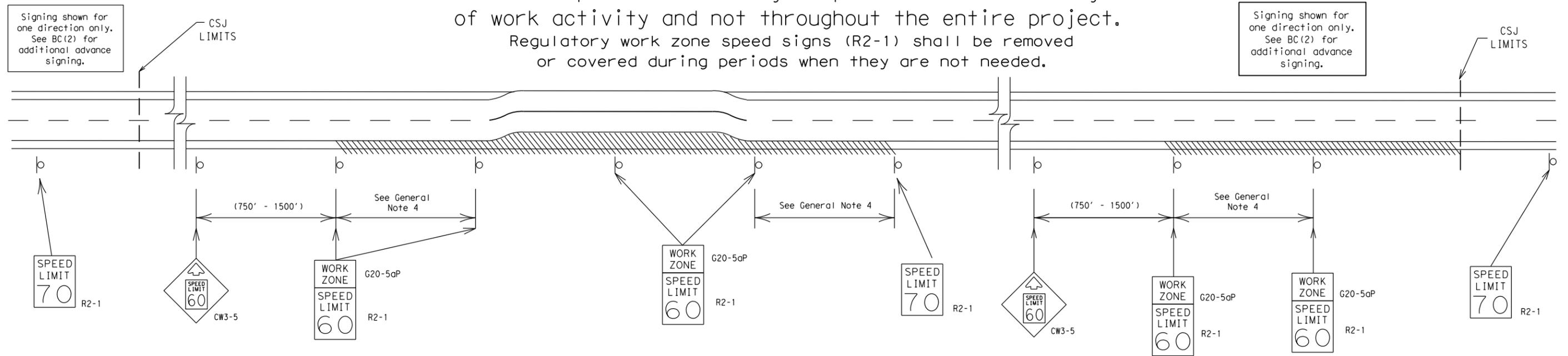
BC (2) - 21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				N GUADALUPE ST
9-07 8-14	DIST	COUNTY	SHEET NO.	
7-13 5-21	SAT	GUADALUPE	10	

TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within Incorporated City Limits.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project. Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

- rough road or damaged pavement surface
- substantial alteration of roadway geometrics (diversions)
- construction detours
- grade
- width
- other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way.

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered. (See Removing or Covering on BC(4)).

GENERAL NOTES

- Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
- Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- Frequency of work zone speed limit signs should be:

40 mph and greater	0.2 to 2 miles
35 mph and less	0.2 to 1 mile
- Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
- Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (CW3-5) sign, "WORK ZONE" (G20-5aP) plaque and the "SPEED LIMIT" (R2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
- Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
- Techniques that may help reduce traffic speeds include but are not limited to:
 - Law enforcement.
 - Flagger stationed next to sign.
 - Portable changeable message sign (PCMS).
 - Low-power (drone) radar transmitter.
 - Speed monitor trailers or signs.
- Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

SHEET 3 OF 12



BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC (3) - 21

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REVISIONS									
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7-13	5-21	DIST	COUNTY			SHEET NO.			
		SAT	GUADALUPE			11			

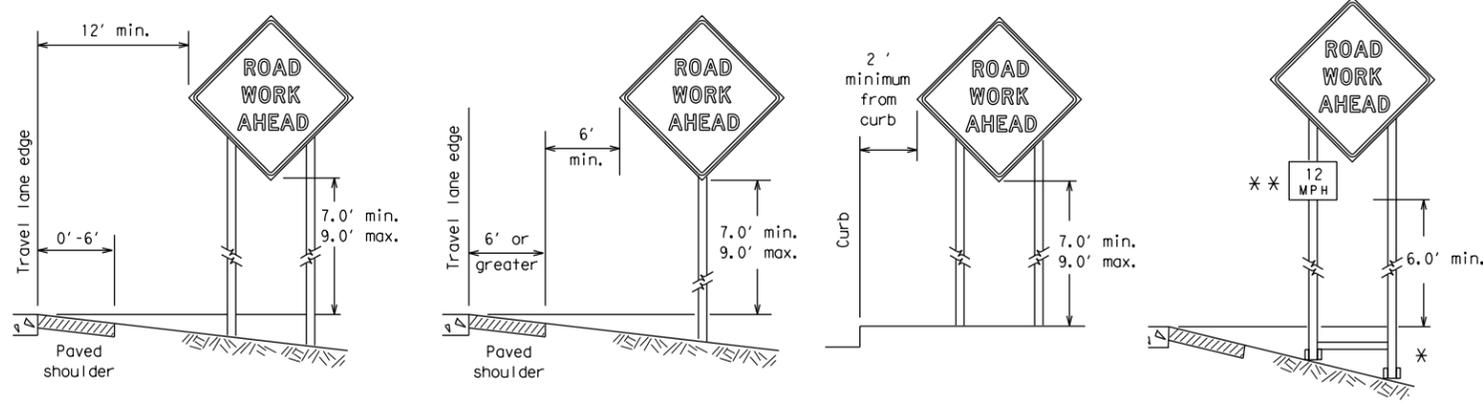
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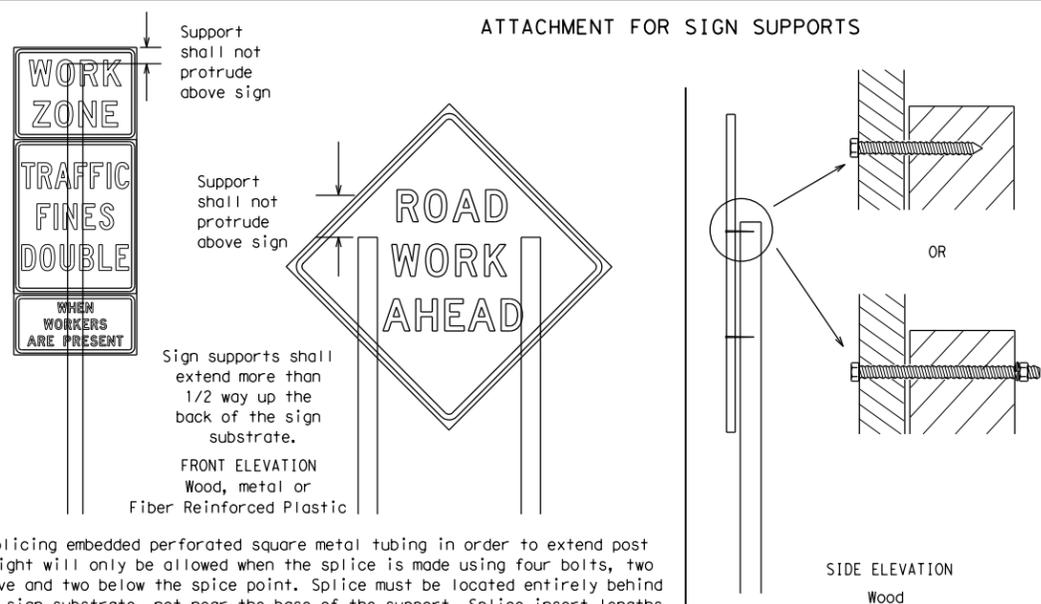
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

** When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.

ATTACHMENT FOR SIGN SUPPORTS



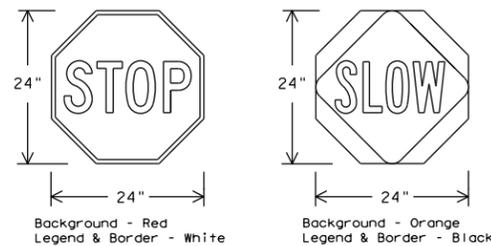
Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the splice point. Splice must be located entirely behind the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

STOP/SLOW PADDLES

1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24".
2. STOP/SLOW paddles shall be retroreflectORIZED when used at night.
3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6' to the bottom of the sign.
4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



SHEETING REQUIREMENTS (WHEN USED AT NIGHT)		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	ORANGE	TYPE B _{FL} OR C _{FL} SHEETING
LEGEND & BORDER	WHITE	TYPE B OR C SHEETING
LEGEND & BORDER	BLACK	ACRYLIC NON-REFLECTIVE FILM

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

1. Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, specific service (LOGO), or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
2. When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition. For details for covering large guide signs see the TS-CD standard.
3. When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
4. If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
5. If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC standard sheets, TLRs standard sheets or the CWZTCD list. The signs shall meet the required mounting heights shown on the BC, or the SMD standard sheets during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
6. Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

GENERAL NOTES FOR WORK ZONE SIGNS

1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
2. Wooden sign posts shall be painted white.
3. Barricades shall NOT be used as sign supports.
4. All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
6. The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD) for small roadside signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets. The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
7. The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
8. Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)

1. The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
 - a. Long-term stationary - work that occupies a location more than 3 days.
 - b. Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
 - c. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
 - d. Short, duration - work that occupies a location up to 1 hour.
 - e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

1. The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
2. The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above the ground.
3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.
5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

1. The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

SIGN SUBSTRATES

1. The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
2. "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
3. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
2. White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
2. Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
5. Burlap shall NOT be used to cover signs.
6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
6. Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
7. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

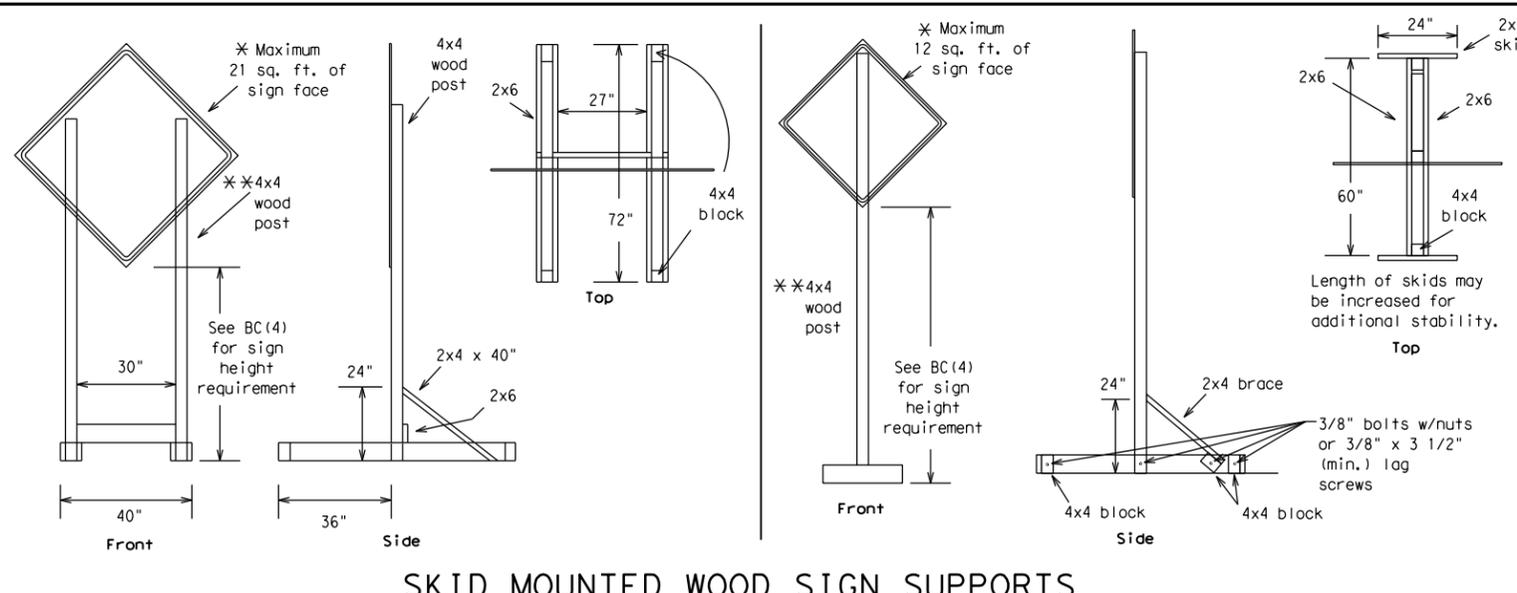
FLAGS ON SIGNS

1. Flags may be used to draw attention to warning signs. When used, the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

		Traffic Safety Division Standard	
<h2>BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES</h2>			
<h3>BC (4) - 21</h3>			
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© TxDOT	November 2002	CK:	TxDOT
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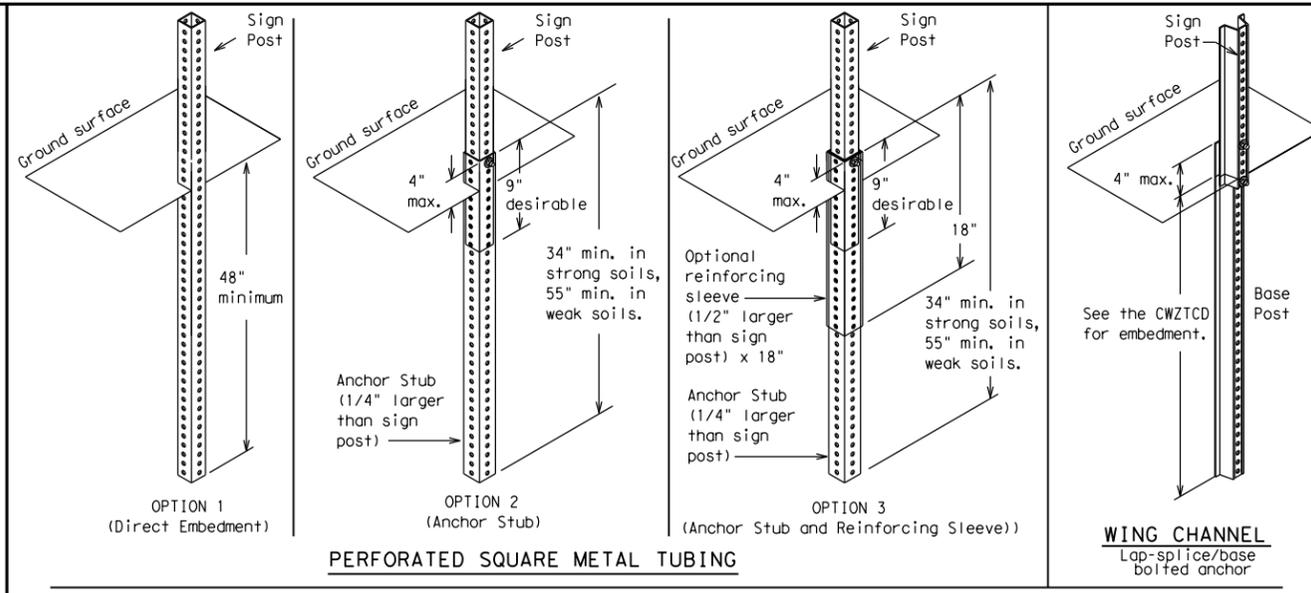
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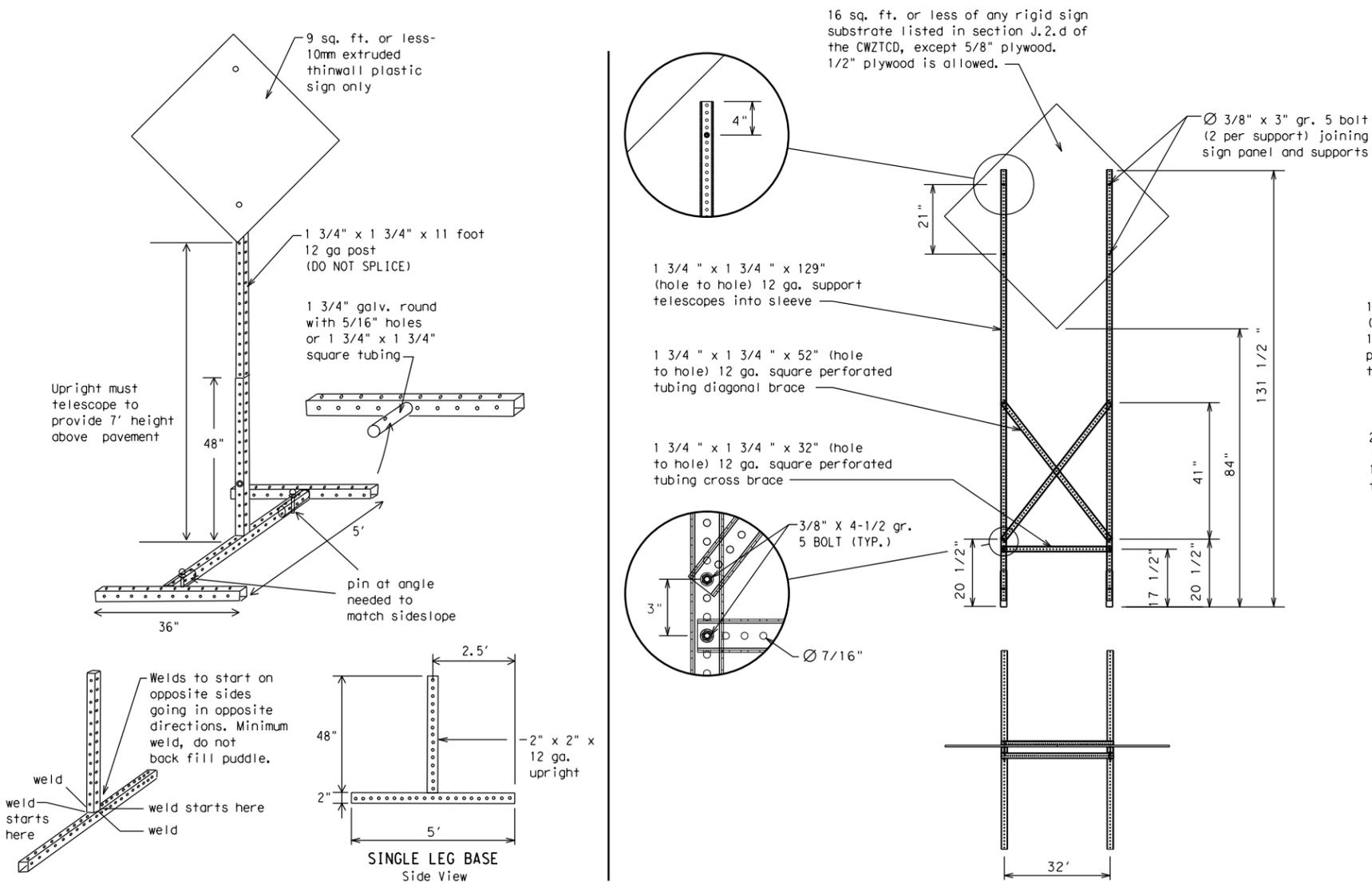
SKID MOUNTED WOOD SIGN SUPPORTS

* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS



GROUND MOUNTED SIGN SUPPORTS

Refer to the CWZTCD and the manufacturer's installation procedure for each type sign support. The maximum sign square footage shall adhere to the manufacturer's recommendation. Two post installations can be used for larger signs.



SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS

* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS

WEDGE ANCHORS

Both steel and plastic Wedge Anchor Systems as shown on the SMD Standard Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils if approved by the Engineer. (See web address for "Traffic Engineering Standard Sheets" on BC(1)).

OTHER DESIGNS

MORE DETAILS OF APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CWZTCD LIST. SEE BC(1) FOR WEBSITE LOCATION.

GENERAL NOTES

1. Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final connection.
2. No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
3. When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.

- * See BC(4) for definition of "Work Duration."
- ** Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.
- See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

SHEET 5 OF 12



BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5) - 21

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	SAT	GUADALUPE	13	

WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.)

PORTABLE CHANGEABLE MESSAGE SIGNS

- The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," "FOR," "AT," etc.
- Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
- Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
- Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
- When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
- The message term "WEEKEND" should be used only if the work is to start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
- The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
- Do not use the word "Danger" in message.
- Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- Do not display messages that scroll horizontally or vertically across the face of the sign.
- The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
- PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
- Each line of text should be centered on the message board rather than left or right justified.
- If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT
RIGHT X LANES CLOSED	RIGHT X LANES OPEN
CENTER LANE CLOSED	DAYTIME LANE CLOSURES
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE
EXIT CLOSED	RIGHT LN TO BE CLOSED
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI
XXXXXXXXX BLVD CLOSED	

Other Condition List

ROADWORK XXX FT	ROAD REPAIRS XXXX FT
FLAGGER XXXX FT	LANE NARROWS XXXX FT
RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE
MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT
LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT
DETOUR X MILE	ROUGH ROAD XXXX FT
ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN
BUMP XXXX FT	US XXX EXIT X MILES
TRAFFIC SIGNAL XXXX FT	LANES SHIFT *

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Phase 2: Possible Component Lists

Action to Take/Effect on Travel List

MERGE RIGHT	FORM X LINES RIGHT
DETOUR NEXT X EXITS	USE XXXXX RD EXIT
USE EXIT XXX	USE EXIT I-XX NORTH
STAY ON US XXX SOUTH	USE I-XX E TO I-XX N
TRUCKS USE US XXX N	WATCH FOR TRUCKS
WATCH FOR TRUCKS	EXPECT DELAYS
EXPECT DELAYS	PREPARE TO STOP
REDUCE SPEED XXX FT	END SHOULDER USE
USE OTHER ROUTES	WATCH FOR WORKERS
STAY IN LANE *	

Location List

AT FM XXXX
BEFORE RAILROAD CROSSING
NEXT X MILES
PAST US XXX EXIT
XXXXXXXXX TO XXXXXXXX
US XXX TO FM XXXX

Warning List

SPEED LIMIT XX MPH
MAXIMUM SPEED XX MPH
MINIMUM SPEED XX MPH
ADVISORY SPEED XX MPH
RIGHT LANE EXIT
USE CAUTION
DRIVE SAFELY
DRIVE WITH CARE

** Advance Notice List

TUE-FRI XX AM-X PM
APR XX-14 X PM-X AM
BEGINS MONDAY
BEGINS MAY XX
MAY X-X XX PM - XX AM
NEXT FRI-SUN
XX AM TO XX PM
NEXT TUE AUG XX
TONIGHT XX PM-XX AM

** See Application Guidelines Note 6.

APPLICATION GUIDELINES

- Only 1 or 2 phases are to be used on a PCMS.
- The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
- A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".
- A Location Phase is necessary only if a distance or location is not included in the first phase selected.
- If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
- For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

- The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
- EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
- Highway names and numbers replaced as appropriate.
- ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- AHEAD may be used instead of distances if necessary.
- FT and MI, MILE and MILES interchanged as appropriate.
- AT, BEFORE and PAST interchanged as needed.
- Distances or AHEAD can be eliminated from the message if a location phase is used.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

FULL MATRIX PCMS SIGNS

- When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
- When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above.
- When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
- A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the same size arrow.

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WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Canot	CANT	North	N
Center	CTR	Northbound	(route) N
Construction Ahead	CONST AHD	Parking	PKING
CROSSING	XING	Road	RD
Detour Route	DETOUR RTE	Right Lane	RT LN
Do Not	DONT	Saturday	SAT
East	E	Service Road	SERV RD
Eastbound	(route) E	Shoulder	SHLDR
Emergency	EMER	Slippery	SLIP
Emergency Vehicle	EMER VEH	South	S
Entrance, Enter	ENT	Southbound	(route) S
Express Lane	EXP LN	Speed	SPD
Expressway	EXPWY	Street	ST
XXXX Feet	XXXX FT	Sunday	SUN
Fog Ahead	FOG AHD	Telephone	PHONE
Freeway	FRWY, FWY	Temporary	TEMP
Freeway Blocked	FWY BLKD	Thursday	THURS
Friday	FRI	To Downtown	TO DWNTN
Hazardous Driving	HAZ DRIVING	Traffic	TRAF
Hazardous Material	HAZMAT	Travelers	TRVLR
High-Occupancy Vehicle	HOV	Tuesday	TUES
Highway	HWY	Time Minutes	TIME MIN
Hour(s)	HR, HRS	Upper Level	UPR LEVEL
Information	INFO	Vehicles (s)	VEH, VEHS
It Is	ITS	Warning	WARN
Junction	JCT	Wednesday	WED
Left	LFT	Weight Limit	WT LIMIT
Left Lane	LFT LN	West	W
Lane Closed	LN CLOSED	Westbound	(route) W
Lower Level	LWR LEVEL	Wet Pavement	WET PVMT
Maintenance	MAINT	Will Not	WONT

Roadway designation # IH-number, US-number, SH-number, FM-number



BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

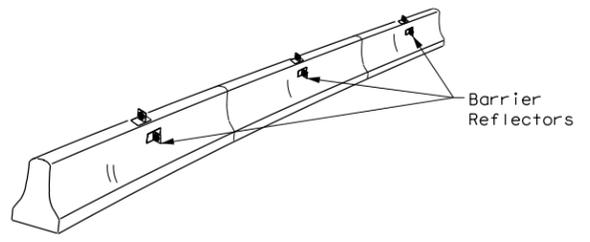
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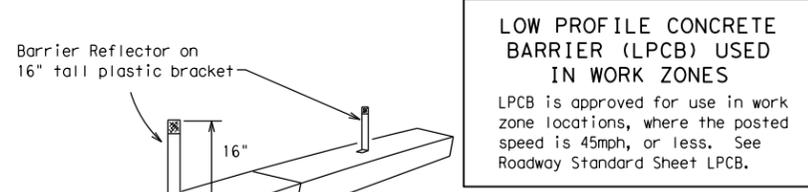
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- Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
- Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost of the reflectors shall be considered subsidiary to Item 512.



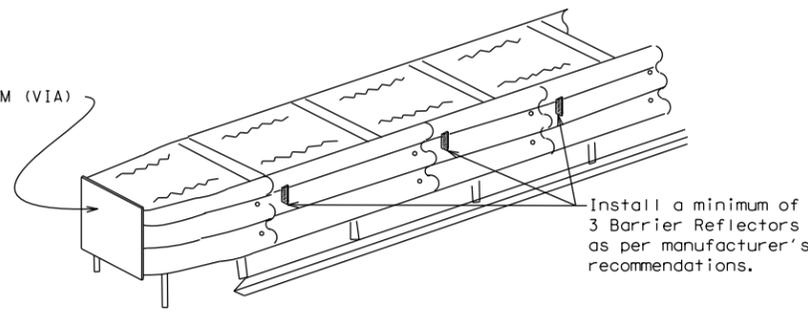
CONCRETE TRAFFIC BARRIER (CTB)

- Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located directly below the reflector mounted on top of the barrier, as shown in the detail above.
- Where CTB separates two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional) while the reflectors on each side of the barrier shall have one yellow reflective face, as shown in the detail above.
- When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.
- Barrier Reflector units shall be yellow or white in color to match the edgeline being supplemented.
- Maximum spacing of Barrier Reflectors is forty (40) feet.
- Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
- Attachment of Barrier Reflectors to CTB shall be per manufacturer's recommendations.
- Missing or damaged Barrier Reflectors shall be replaced as directed by the Engineer.
- Single slope barriers shall be delineated as shown on the above detail.



LOW PROFILE CONCRETE BARRIER (LPCB) USED IN WORK ZONES
 LPCB is approved for use in work zone locations, where the posted speed is 45mph, or less. See Roadway Standard Sheet LPCB.

LOW PROFILE CONCRETE BARRIER (LPCB)



DELINEATION OF END TREATMENTS

END TREATMENTS FOR CTB'S USED IN WORK ZONES
 End treatments used on CTB's in work zones shall meet the appropriate crashworthy standards as defined in the Manual for Assessing Safety Hardware (MASH). Refer to the CWZTCD List for approved end treatments and manufacturers.

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS

WARNING LIGHTS

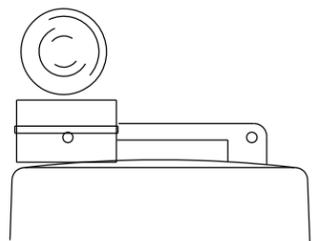
- Warning lights shall meet the requirements of the TMUTCD.
- Warning lights shall NOT be installed on barricades.
- Type A-Low Intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "FL". The Type A Warning Lights shall not be used with signs manufactured with Type B_{FL} or C_{FL} Sheeting meeting the requirements of Departmental Material Specification DMS-8300.
- Type-C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "SB".
- The Engineer/Inspector or the plans shall specify the location and type of warning lights to be installed on the traffic control devices.
- When required by the Engineer, the Contractor shall furnish a copy of the warning lights certification. The warning light manufacturer will certify the warning lights meet the requirements of the latest ITE Purchase Specifications for Flashing and Steady-Burn Warning Lights.
- When used to delineate curves, Type-C and Type D Steady Burn Lights should only be placed on the outside of the curve, not the inside.
- The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

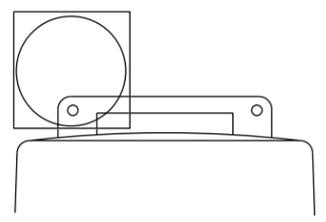
- Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
- Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
- A series of sequential flashing warning lights placed on channelizing devices to form a merging taper may be used for delineation. If used, the successive flashing of the sequential warning lights should occur from the beginning of the taper to the end of the merging taper in order to identify the desired vehicle path. The rate of flashing for each light shall be 65 flashes per minute, plus or minus 10 flashes.
- Type C and D steady-burn warning lights are intended to be used in a series to delineate the edge of the travel lane on detours, on lane changes, on lane closures, and on other similar conditions.
- Type A, Type C and Type D warning lights shall be installed at locations as detailed on other sheets in the plans.
- Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
- The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

- A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the discretion of the Contractor unless otherwise noted in the plans.
- The warning reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed on the CWZTCD.
- The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
- Round reflectors shall be fully reflectorized, including the area where attached to the drum.
- Square substrates must have a minimum of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it attaches to the drum.
- The side of the warning reflector facing approaching traffic shall have sheeting meeting the color and retroreflectivity requirements for DMS 8300-Type B or Type C.
- When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
- The warning reflector should be mounted on the side of the handle nearest approaching traffic.
- The maximum spacing for warning reflectors should be identical to the channelizing device spacing requirements.



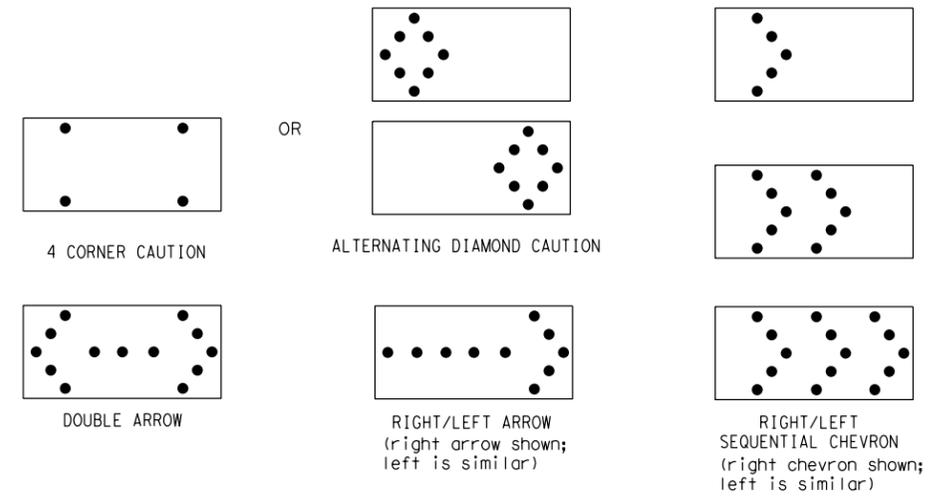
Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.



Warning reflector may be round or square. Must have a yellow reflective surface area of at least 30 square inches

Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic.

- The Flashing Arrow Board should be used for all lane closures on multi-lane roadways, or slow moving maintenance or construction activities on the travel lanes.
- Flashing Arrow Boards should not be used on two-lane, two-way roadways, detours, diversions or work on shoulders unless the "CAUTION" display (see detail below) is used.
- The Engineer/Inspector shall choose all appropriate signs, barricades and/or other traffic control devices that should be used in conjunction with the Flashing Arrow Board.
- The Flashing Arrow Board should be able to display the following symbols:



- The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
- The straight line caution display is NOT ALLOWED.
- The Flashing Arrow Board shall be capable of minimum 50 percent dimming from rated lamp voltage. The flashing rate of the lamps shall not be less than 25 nor more than 40 flashes per minute.
- Minimum lamp "on time" shall be approximately 50 percent for the flashing arrow and equal intervals of 25 percent for each sequential phase of the flashing chevron.
- The sequential arrow display is NOT ALLOWED.
- The flashing arrow display is the TxDOT standard; however, the sequential chevron display may be used during daylight operations.
- The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
- A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
- A full matrix PCMS may be used to simulate a Flashing Arrow Board provided it meets visibility, flash rate and dimming requirements on this sheet for the same size arrow.
- Minimum mounting height of trailer mounted Arrow Boards should be 7 feet from roadway to bottom of panel.

REQUIREMENTS			
TYPE	MINIMUM SIZE	MINIMUM NUMBER OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE
B	30 x 60	13	3/4 mile
C	48 x 96	15	1 mile

ATTENTION
 Flashing Arrow Boards shall be equipped with automatic dimming devices.

WHEN NOT IN USE, REMOVE THE ARROW BOARD FROM THE RIGHT-OF-WAY OR PLACE THE ARROW BOARD BEHIND CONCRETE TRAFFIC BARRIER OR GUARDRAIL.

FLASHING ARROW BOARDS

SHEET 7 OF 12

TRUCK-MOUNTED ATTENUATORS

- Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the Manual for Assessing Safety Hardware (MASH).
- Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
- Refer to the CWZTCD for a list of approved TMAs.
- TMAs are required on freeways unless otherwise noted in the plans.
- A TMA should be used anytime that it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the work performance.
- The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an extended distance from the TMA.



BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS, WARNING LIGHTS & ATTENUATOR

BC (7) - 21

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9-07	8-14			COUNTY		SHEET NO.			
7-13	5-21			GUADALUPE		15			

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GENERAL NOTES

- For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
- For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
- Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

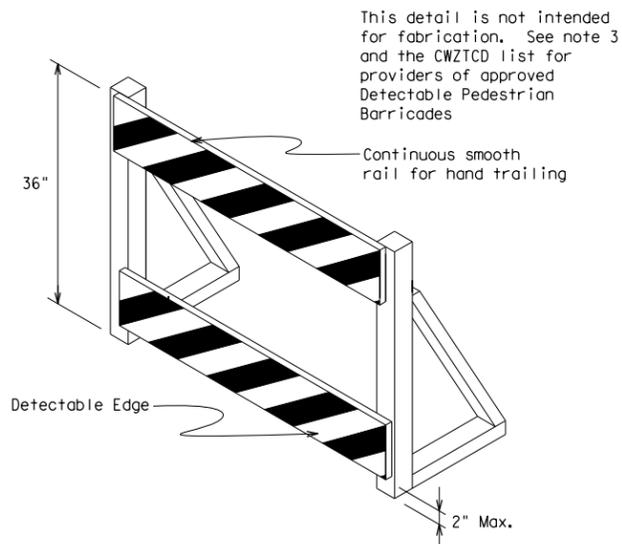
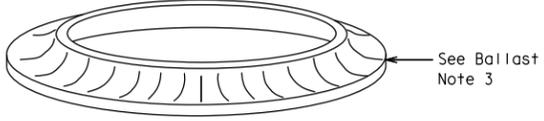
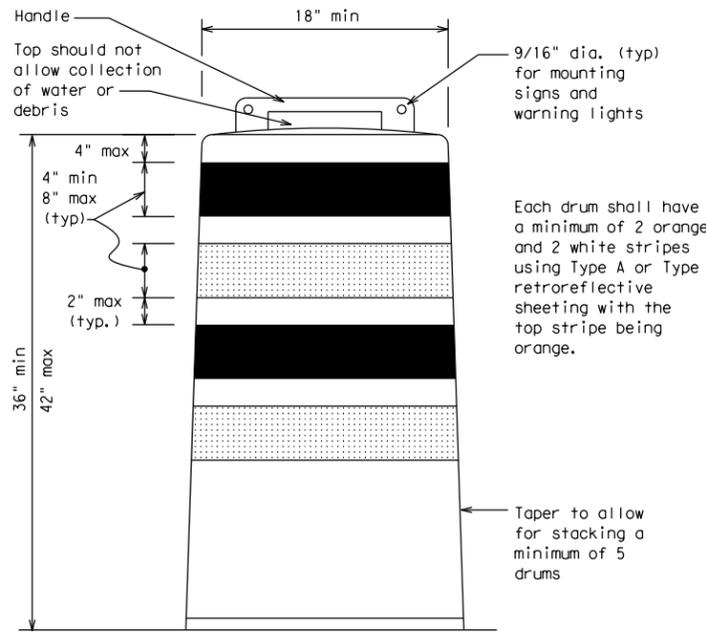
- Pre-qualified plastic drums shall meet the following requirements:
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
 - The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
 - Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
 - Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
 - The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
 - The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
 - Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
 - Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
 - Drum body shall have a maximum unballasted weight of 11 lbs.
 - Drum and base shall be marked with manufacturer's name and model number.

RETROREFLECTIVE SHEETING

- The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
- The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

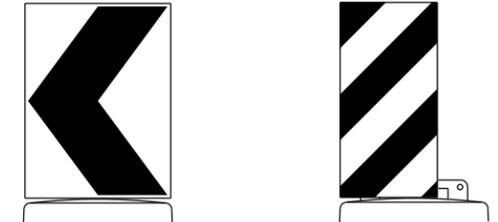
BALLAST

- Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
- Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- Ballast shall not be placed on top of drums.
- Adhesives may be used to secure base of drums to pavement.



DETECTABLE PEDESTRIAN BARRICADES

- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures.
- Where pedestrians with visual disabilities normally use the closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
- Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
- Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements.
- Warning lights shall not be attached to detectable pedestrian barricades.
- Detectable pedestrian barricades should use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.



18" x 24" Sign (Maximum Sign Dimension)
Chevron CW1-8, Opposing Traffic Lane Divider, Driveway sign D70a, Keep Right R4 series or other signs as approved by Engineer

12" x 24" Vertical Panel
mount with diagonals sloping down towards travel way

Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

- Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
- Chevrons and other work zone signs with an orange background shall be manufactured with Type B_{FL} or Type C_{FL} Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
- Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A or Type B. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
- Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
- Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
- Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
- Chevrons may be placed on drums on the outside of curves, on merging tapers or on shifting tapers. When used in these locations, they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
- R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

SHEET 8 OF 12



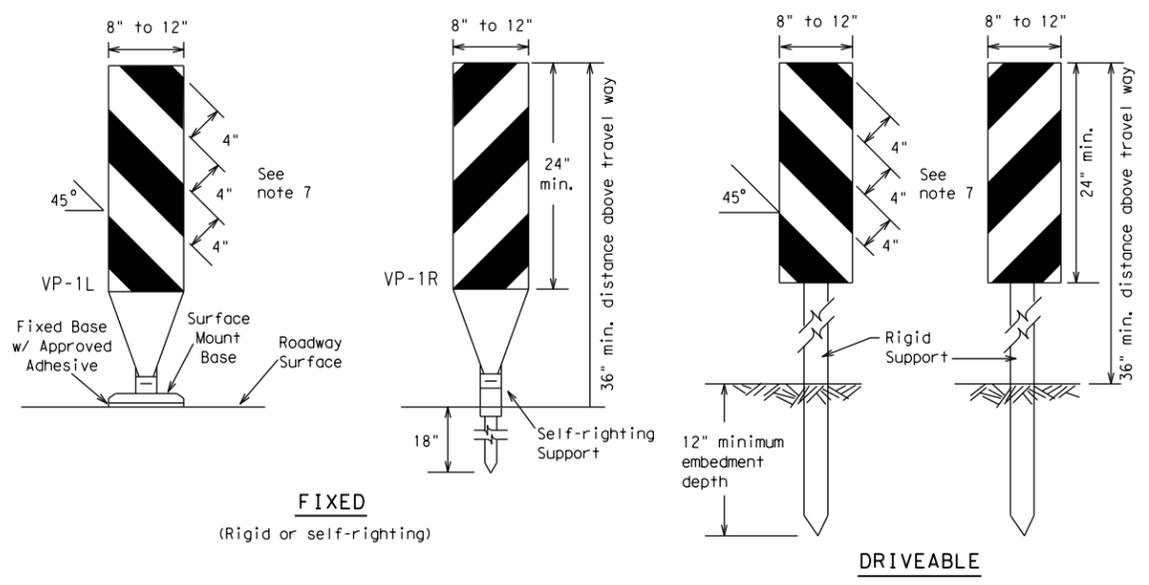
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC (8) - 21

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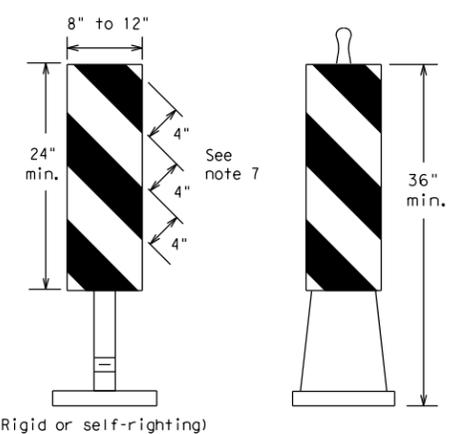
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FIXED
(Rigid or self-righting)

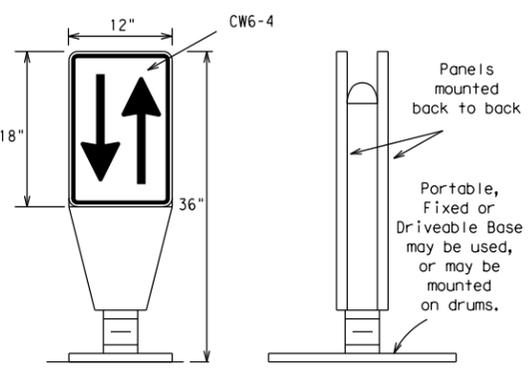
DRIVEABLE



PORTABLE

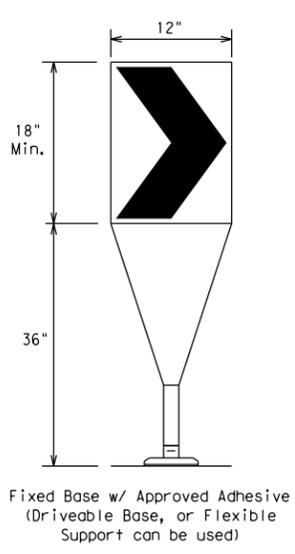
VERTICAL PANELS (VPs)

- Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
- VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is required. The Engineer/Inspector shall refer to the Roadway Design Manual for additional requirements on the use VP's for drop-offs.
- VP's should be mounted back to back if used at the edge of cuts adjacent to two-way two lane roadways. Stripes are to be reflective orange and reflective white and should always slope downward toward the travel lane.
- VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
- Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- Sheeting for the VP's shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
- Where the height of reflective material on the vertical panel is 36 inches or greater, a panel stripe of 6 inches shall be used.



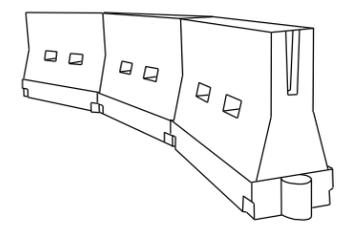
OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

- Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the pavement with an adhesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.
- The OTLD may be used in combination with 42" cones or VPs.
- Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
- The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.



- The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
- Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
- Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
- To be effective, the chevron should be visible for at least 500 feet.
- Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
- For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

CHEVRONS



LONGITUDINAL CHANNELIZING DEVICES (LCD)

- LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact.
- LCDs may be used instead of a line of cones or drums.
- LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
- LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.
- LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10). Place reflective sheeting near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

- Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate Manual for Assessing Safety Hardware (MASH) crashworthiness requirements based on roadway speed and barrier application.
- Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.
- Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH) urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions.
- When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated as per manufacturer recommendations or flared to a point outside the clear zone.

If used to channelize pedestrians, longitudinal channelizing devices or water ballasted systems must have a continuous detectable bottom for users of long canes and the top of the unit shall not be less than 32 inches in height.

HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

GENERAL NOTES

- Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
- Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
- Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
- Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
- The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.

Posted Speed	Formula	Minimum Desirable Taper Lengths * X			Suggested Maximum Spacing of Channelizing Devices	
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'
35		205'	225'	245'	35'	70'
40		265'	295'	320'	40'	80'
45	L = WS	450'	495'	540'	45'	90'
50		500'	550'	600'	50'	100'
55		550'	605'	660'	55'	110'
60		600'	660'	720'	60'	120'
65		650'	715'	780'	65'	130'
70		700'	770'	840'	70'	140'
75		750'	825'	900'	75'	150'
80		800'	880'	960'	80'	160'

*X Taper lengths have been rounded off.
 L=Length of Taper (FT.) W=Width of Offset (FT.)
 S=Posted Speed (MPH)

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

SHEET 9 OF 12



BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC (9) - 21

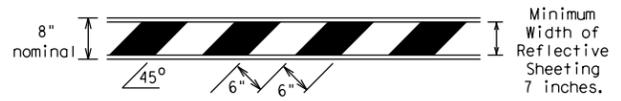
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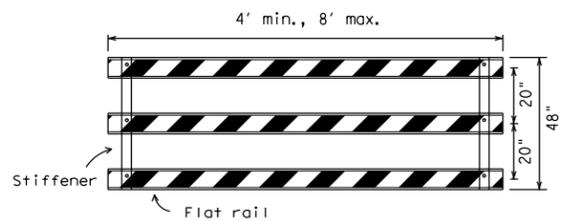
TYPE 3 BARRICADES

- Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.
- Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
- Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road, striping should slope downward in both directions toward the center of roadway.
- Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
- Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1".
- Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
- Warning lights shall NOT be installed on barricades.
- Where barricades require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.
- Sheeting for barricades shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

Barricades shall NOT be used as a sign support.

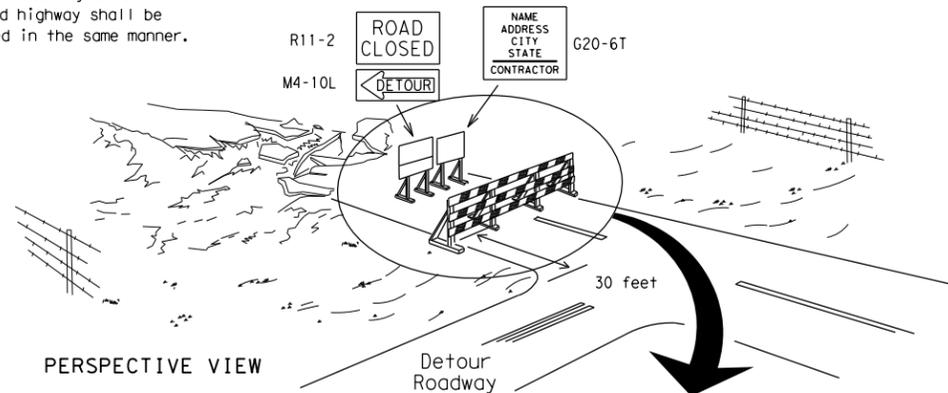


TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



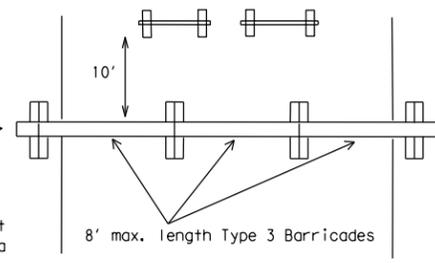
TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

Each roadway of a divided highway shall be barricaded in the same manner.



PERSPECTIVE VIEW

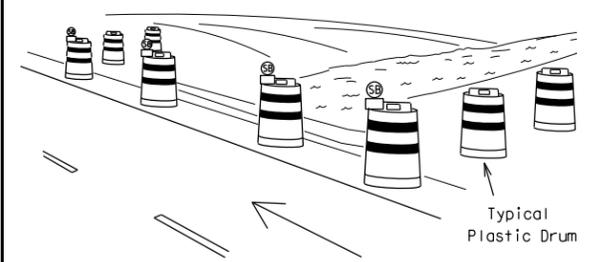
The three rails on Type 3 barricades shall be reflectorized orange and reflective white stripes on one side facing one-way traffic and both sides for two-way traffic. Barricade striping should slant downward in the direction of detour.



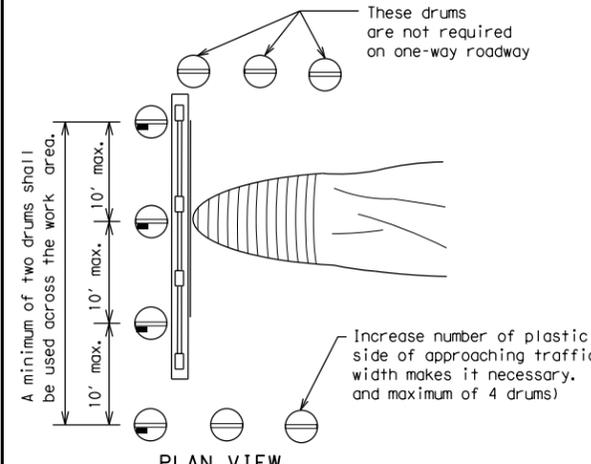
PLAN VIEW

- Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
- Advance signing shall be as specified elsewhere in the plans.

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION



PERSPECTIVE VIEW

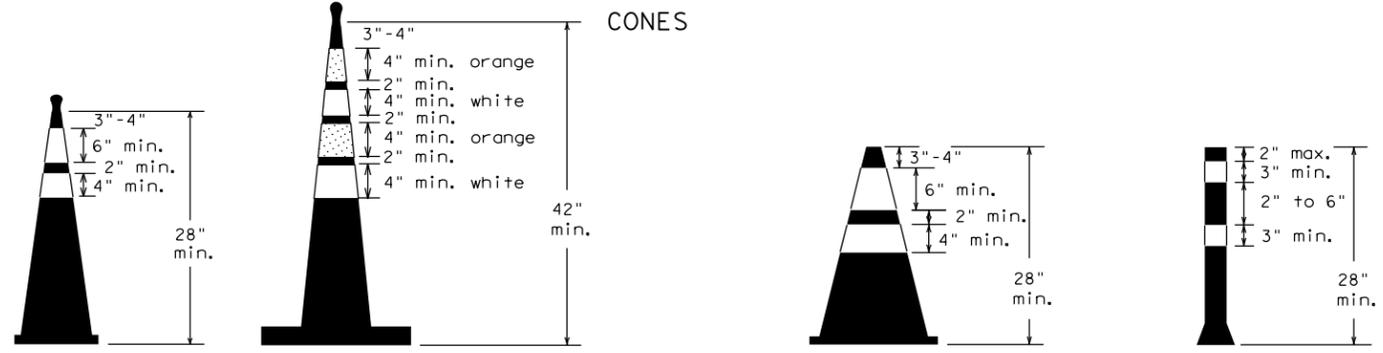


PLAN VIEW

CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS

- Where positive redirection capability is provided, drums may be omitted.
- Plastic construction fencing may be used with drums for safety as required in the plans.
- Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
- When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
- Drums must extend the length of the culvert widening.

LEGEND	
	Plastic drum
	Plastic drum with steady burn light or yellow warning reflector
	Steady burn warning light or yellow warning reflector



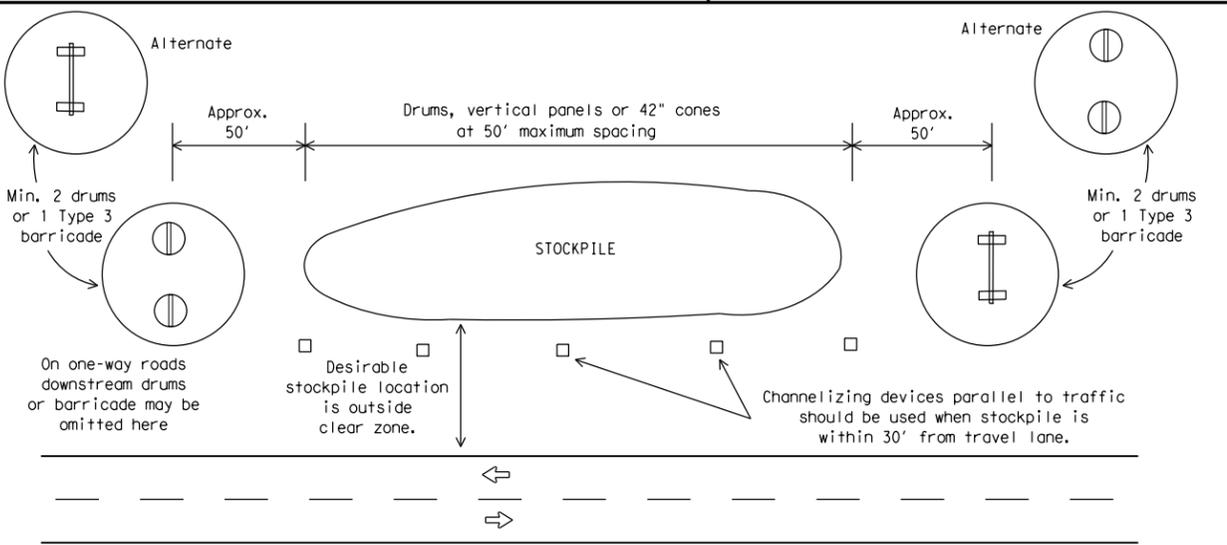
Two-Piece cones

One-Piece cones

Tubular Marker

28" Cones shall have a minimum weight of 9 1/2 lbs.
 42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

- Traffic cones and tubular markers shall be predominantly orange, and meet the height and weight requirements shown above.
- One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
- Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device.
- Cones or tubular markers shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A or Type B.
- 28" cones and tubular markers are generally suitable for short duration and short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
- 42" two-piece cones, vertical panels or drums are suitable for all work zone durations.
- Cones or tubular markers used on each project should be of the same size and shape.



TRAFFIC CONTROL FOR MATERIAL STOCKPILES

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC (10) - 21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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9-07 8-14	DIST		COUNTY	SHEET NO.
7-13 5-21	SAT		GUADALUPE	18

WORK ZONE PAVEMENT MARKINGS

GENERAL

- The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- Additional supplemental pavement marking details may be found in the plans or specifications.
- Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ(STPM).
- When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
- All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

- Raised pavement markers are to be placed according to the patterns on BC(12).
- All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

- Removable prefabricated pavement markings shall meet the requirements of DMS-8241.
- Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

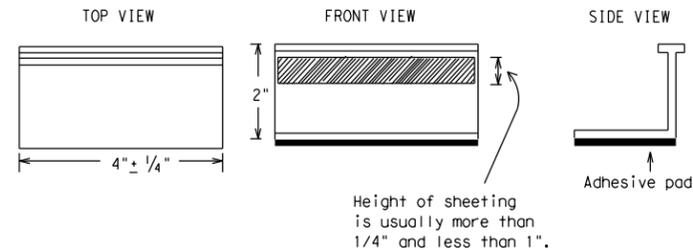
MAINTAINING WORK ZONE PAVEMENT MARKINGS

- The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
- The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
- Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

REMOVAL OF PAVEMENT MARKINGS

- Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
- The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
- Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
- The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
- Blast cleaning may be used but will not be required unless specifically shown in the plans.
- Over-painting of the markings SHALL NOT BE permitted.
- Removal of raised pavement markers shall be as directed by the Engineer.
- Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
- Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



**STAPLES OR NAILS SHALL NOT BE USED TO SECURE
TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER
TABS TO THE PAVEMENT SURFACE**

- Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
- Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the roadway.
 - Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
 - Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.
- Small design variances may be noted between tab manufacturers.
- See Standard Sheet WZ(STPM) for tab placement on new pavements. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

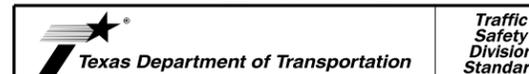
- Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
- All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
- Adhesive for guidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.

Guidemarks shall be designated as:
 YELLOW - (two amber reflective surfaces with yellow body).
 WHITE - (one silver reflective surface with white body).

DEPARTMENTAL MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFFIC BUTTONS	DMS-4300
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242

A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).

SHEET 11 OF 12



BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC(11) - 21

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2-98	9-07	5-21		
1-02	7-13			
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