



July 22, 2024

**CITY OF GRANBURY, TEXAS
CALINCO DRIVE IMPROVEMENTS PROJECT**

Addendum No. 1

Attention is called to the following modifications to the Plans, Specifications and Contract Documents for the above referenced project. The City of Granbury will receive sealed Bids for the Calinco Drive Improvements Project until 2:00 p.m. local time on Thursday, July 25, 2024, at the City Service Center Conference Room, located at 401 North Park Street, Granbury, Hood County, Texas 76048. Bids will be publicly opened and read aloud. We hereby modify the documents as follows.

BID DOCUMENTS:

1. **Bid Form: REPLACE** the Bid Form in its entirety with the attached Bid Form.

SPECIFICATIONS:

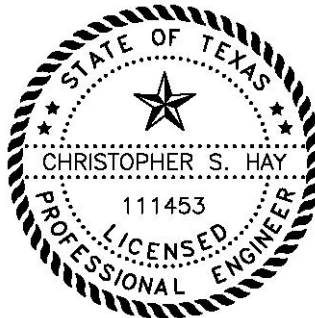
1. **ADD** Specification 01010 – SUMMARY OF WORK
2. **ADD** Specification 02513 – SURFACE TREATMENT

DRAWINGS:

1. **ADD:** the attached Drawings for Additive Alternate Bid.

This addendum consists of 19 pages. This addendum becomes a part of the Bid Documents and **SHALL BE ACKNOWLEDGED** by the bidder on the Bid Form submitted.


By: Christopher S. Hay, P.E. #111453
Project Engineer



7/22/2023

BID FORM

PROJECT IDENTIFICATION: **City of Granbury, Texas**
Calinco Drive Improvements

CONTRACT IDENTIFICATION AND NUMBER:

Calinco Drive Improvements
Project Number: 6523-46

THIS BID IS SUBMITTED TO: **City of Granbury**
401 N. Park Street
Granbury, Texas 76048

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for **60 days** after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of OWNER.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

- A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged.

<u>Addendum No.</u>	<u>Addendum Date</u>
_____	_____
_____	_____
_____	_____

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.
- D. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.
- E. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- F. Bidder is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Bidding Documents.

ADDENDUM NO. 1

- G. Bidder has correlated the information know to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- H. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by ENGINEER is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- J. All construction work to be in accordance with the North Central Texas – Standard Specifications for Public Works Construction – Fourth Edition.

4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.

5.01 Show bid prices in words and numerals. Words take precedence over numerals. Round off unit prices to two decimal places only. These Bid prices must include all labor, materials, equipment, insurance, overhead, superintendence, transportation, profit, and incidentals to cover the finished Equipment and delivery of Equipment to projects site called for in the Contract Documents.

5.02 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

BASE BID SCHEDULE

Item No	Estimated Quantity	Description of Bid Item and Unit Price (Written in Words)	Unit Price	Total Price
1	1 LS	Furnish Mobilization, Insurance and Bonds (not to exceed 5% of Bid), for _____ Dollars and _____ Cents per lump sum.		\$ _____
2	1 LS	Furnish and implement Traffic Control Plan and all related work, as shown and as specified, for _____ Dollars and _____ Cents per lump sum.		\$ _____
3	1 LS	Furnish, install, implement, and maintain a Stormwater Pollution Prevention Plan (SWPPP), and all related work and appurtenances as specified, for _____ Dollars and _____ Cents per lump sum.		\$ _____
4	6,540 SY	Perform pavement removal and unclassified excavation (approximately 12" depth), including haul off and disposal of material, for _____ Dollars and _____ Cents per square yard.	\$ _____ /SY	\$ _____
5	6,540 SY	Perform subgrade preparation, scarify and compact existing subgrade (min. 6" depth), and all related work, as shown and as specified, complete and in place, for _____ Dollars and _____ Cents per square yard.	\$ _____ /SY	\$ _____

ADDENDUM NO. 1

Item No	Estimated Quantity	Description of Bid Item and Unit Price (Written in Words)	Unit Price	Total Price
6	6,540 SY	Furnish and install flexible base material (Type A, Grade 1 or 2) (min. 10" depth), and all related work, as shown and as specified, complete and in place, for _____ _____ _____ Dollars and _____ Cents per square yard.	\$ _____ /SY	\$ _____
7	720 TON	Furnish and install dense graded HMA (Type D) (min. 2" depth), including prime coat and tack coat, and all related work as shown and specified, complete and in place, for _____ _____ _____ Dollars and _____ Cents per ton.	\$ _____ /TON	\$ _____
8	4 EA	Furnish and install concrete pad around wastewater manhole, including grade adjustment to be flush with finished pavement, as required, as shown and as specified, complete and in place, for _____ _____ _____ Dollars and _____ Cents per each.	\$ _____ /EA	\$ _____
TOTAL BASE BID (Items 1 thru 8)			\$ _____	

ALTERNATE BID

Item No	Estimated Quantity	Description of Bid Item and Unit Price (Written in Words)	Unit Price	Total Price
6A Replace Base Bid Item 6	6,540 SY	Furnish and install flexible base material (Type A, Grade 1 or 2) (min. 6" depth), and all related work, as shown and as specified, complete and in place, for _____ _____ _____ Dollars and _____ Cents per square yard.	\$ _____ /SY	\$ _____
7A Replace Base Bid Item 7	6,540 SY	Furnish and install concrete paving (min. 6" thick), including rebar, jointing, sealant, and all related work, as shown and as specified, for _____ _____ _____ Dollars and _____ Cents per square yard.	\$ _____ /SY	\$ _____
TOTAL ALTERNATE BID (Items 6A thru 7A)			\$ _____	
TOTAL BASE BID + ALTERNATE BID (Items 1-5, 8 + 6A-7A)			\$ _____	

ADDITIVE ALTERNATE BID				
Item No	Estimated Quantity	Description of Bid Item and Unit Price (Written in Words)	Unit Price	Total Price
AA1	1 LS	Furnish Mobilization, Insurance and Bonds (not to exceed 5% of Bid), for _____ Dollars and _____ Cents per lump sum.		\$ _____
AA2	78 SY	Remove existing Pavement and furnish and install 2" Type D HMA Surface Course (TXDOT Item 340, Pg 64-22) to match existing pavement in grade and alignment, prior to sealcoat application, as shown and as specified, complete and in place, for _____ Dollars and _____ Cents per square yard.	\$ _____ /SY	\$ _____
AA3	25,420 SY	Furnish and install 2-Course Sealcoat Surface Treatment along 3,450 LF of Old Acton Highway, starting at the intersection of US 377 and ending at the City of Granbury City limits, as shown and as specified, complete and in place, for _____ Dollars and _____ Cents per square yard.	\$ _____ /SY	\$ _____
AA4	6,020 LF	Furnish and install 4" Solid Double Yellow Striping along 3,010 LF of road surface, as shown and as specified, complete and in place, for _____ Dollars and _____ Cents per linear foot.	\$ _____ /LF	\$ _____
AA5	100 LF	Furnish and install 8" Solid White Lane Divider striping, as shown and as specified, complete and in place, for _____ Dollars and _____ Cents per linear foot.	\$ _____ /LF	\$ _____
AA6	32 LF	Furnish and install 2" White Solid Stop Bar Striping, 24" Wide, as shown and as specified, complete and in place, for _____ Dollars and _____ Cents per linear foot.	\$ _____ /LF	\$ _____
AA7	2 EA	Furnish and install Solid White Turn Arrow Striping, as shown and as specified, complete and in place, for _____ Dollars and _____ Cents per each.	\$ _____ /EA	\$ _____
AA8	86 EA	Furnish and install Reflective Raised Pavement Markers, as shown and as specified, complete and in place, for _____ Dollars and _____ Cents per each.	\$ _____ /EA	\$ _____
TOTAL ADDITIVE ALTER ATE BID (Items AA1 thru AA8)			\$ _____	

6.01 Bidder agrees that the Work will be substantially complete within _____ calendar days after the date when the Contract Times commence to run and will be completed and ready for final payment within _____ calendar days after the date when the Contract Times commence to run.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement.

7.01 The following documents are attached to and made a condition of this Bid:

- A. Required Bid security;
- B. Special Provisions – Sales Tax Notice to contractors, and
- C. Bidder's Certifications

8.01 The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions.

SUBMITTED on _____, 20____.

State Contractor License No. _____. (If applicable)

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

Business address: _____

Phone No.: _____ FAX No.: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Business address: _____

Phone No.: _____ FAX No.: _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Attest _____
(Signature of Corporate Secretary)

(CORPORATE SEAL)

Business address: _____

Phone No.: _____ FAX No.: _____

Date of Qualification to do business is _____.

A Joint Venture

Joint Venturer Name: _____ (SEAL)

By: _____

(Signature of joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ FAX No.: _____

Joint Venturer Name: _____ (SEAL)

By: _____

(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone No.: _____ FAX No.: _____

Phone and FAX Number, and Address for receipt of official communications:

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

SECTION 01010 - A

**SUMMARY OF WORK
ADDITIVE ALTERNATE BID**

PART 1 GENERAL

1.1 SECTION INCLUDES:

A. Contract Description for Additive Alternate Work:

1. Approximately 24,120 SY of two-course sealcoat paving to be constructed in Granbury, Texas under the Base Bid. The work includes sweeping, cleaning of gutters and all prep work necessary for a complete sealcoat project.
2. Remove existing pavement buttons.
3. Provide 3,010 LF of double yellow striping as per specifications. This accommodates leaving the striping clear for 80 LF at each of the N. Plaza Drive, Tom Cox Road, Whisper View Circle, and Eastridge Road intersections, and 120 LF clear at the Liberty Road Intersection.
4. Provide new pavement buttons as per TxDOT specs for the length of the sealcoat project, approximately 3,450 LF.
5. Application rates listed in the specifications are for bidding purposes only. Actual field application rates will be determined by the test strip procedure to be constructed by the Contractor in the field. All materials and labor associated with the test strip procedure are subsidiary to the main items of work. Adjustments in application rates are to be made by the Contractor based upon the condition of the existing roadway surface.

1.2 CONTRACTOR USE OF SITE:

- A. Access to site: unlimited. Coordinate construction, detours, and/or street closings with the Engineer and Owner.
- B. Time restrictions for performing Work: Daylight hours, Monday through Saturday, except in emergency situations or with prior approval by the Engineer and Owner.
- C. Existing utilities are to be protected and remain in service at all times. Any damage to existing utilities shall be repaired by the Contractor at no additional cost to the Owner.
- D. Not more than two (2) consecutive cross-streets may be closed to traffic at any time, unless permission is given by the Owner.

PART 2 PRODUCTS

- 2.1 See Specification 02513 "Surface Treatment."

PART 3 EXECUTION

- 3.1 Sweep all roadway surfaces in preparation of paving. Apply hot asphalt and aggregate at the rates established by the test strip procedure. Protect all existing utilities and adjacent surfaces. After rolling, ensure aggregate is properly embedded in the asphalt. Remove excess rock from the roadway once asphalt has cooled.

END OF SECTION

SECTION 02513 - A

**SURFACE TREATMENT
ADDITIVE ALTERNATE BID**

PART 1 GENERAL

1.1 SECTION INCLUDES:

- A. Surface course, consisting of one course surface treatment and asphaltic material, placed on the streets shown on the plans to receive a sealcoat or on other streets as directed by the Engineer and in accordance with these specifications.

1.2 REFERENCES:

- A. TxDOT Item 300 — Asphalts, Oils and Emulsions.
- B. TxDOT Item 302 — Aggregates for Surface Treatment.
- C. TxDOT Item 316 — Surface Treatment.

1.3 SUBMITTALS:

- A. Procedures for Submittals: Section 01300.
- B. Contractor shall certify that aggregate and asphalt will conform to the requirements of TxDOT Standard Specifications.
- C. Contractor shall certify that pre-coated aggregate is coated with like asphalt as is planned for the project to ensure compatibility.
- D. Certified weight tickets shall be submitted with each delivery of aggregate to the work site.
- E. All aggregate samples required for testing shall be furnished by the Contractor. All tests for initial aggregate submittals necessary to determine compliance with requirements specified herein will be made by the Contractor at his expense. Sampling and testing will be conducted by an approved independent testing laboratory.

1.4 DELIVERY, STORAGE and HANDLING:

- A. All storage tanks, piping, booster tanks, and distributors used in storing or handling asphalt shall be kept clean and in good operating condition at all times, and they shall be operated in such a manner that there will be no contamination of the asphalt with foreign material. Asphalt shall not be heated above 350°F at any time, and when applied, it shall be at a temperature of not less than 275°F and not more than 350°F. All asphalt material heated above 350°F will be rejected. Asphalt storage and application temperatures were taken from TxDOT item 300, 2004 specification. Re-circulating heating equipment shall be equipped with recording temperature gauges.

- B. Sealcoat shall not be applied when the air temperature is below 60°F, the air temperature being taken in the shade and away from artificial heat. Sealcoat shall not be applied when the temperature of the surface to be treated is below 70°F. Asphalt material shall not be placed when general weather conditions are not suitable.
- C. Sealcoat shall not be applied during sand, dust or rain storms. When the aggregate is too dusty, so as to prevent adequate bonding to the asphalt, the contractor is to dampen the aggregate stockpiles. The pavement shall be free of surface moisture during periods of sealcoat construction.
- D. No asphalt material shall be placed which will not allow completion of sealcoat construction.
- E. The surface on which the sealcoat is to be applied shall be cleaned of all dirt, dust, or other deleterious materials by sweeping with rotary brooms or other approved methods immediately prior to application of asphalt. No asphalt shall be applied until the street surfaces are thoroughly cleaned.

PART 2 PRODUCTS

2.1 SEAL COAT ASPHALT:

- A. Asphaltic materials: TxDOT Item 300, "Asphalts, Oils and Emulsions".
- B. Provide grade AC-20-5TR, or approved equal.

2.2 SEAL COAT AGGREGATE:

- A. Aggregate Materials: TxDOT Item 302, "Aggregate for Surface Treatment".
- B. Provide Pre-coated Type B Grade 4 Aggregate (PB Grade 4).
- C. Provide aggregate from a TXDOT approved source in accordance with the TXDOT Bituminous Rates Source Quality Catalog.

PART 3 EXECUTION

3.1 SEAL COAT:

- A. Approximate Rates for Single Applications:
 - 1. Asphalt: 0.32 to 0.45 gallons per square yard (quantities established for bidding are based upon an average of 0.42 gal/SY).
 - 2. Aggregate: 1 CY/105 SY to 1CY/120 SY (quantities established for bidding are based upon an average of 1CY/110SY).
 - 3. Rates are to be adjusted in the field by the Contractor based upon field conditions and test strips.

B. Approximate Rates for Double Applications:

1. First coat
Asphalt: 0.28 to 0.35 gallons per square yard.
Aggregate: 1 CY/105 SY to 1CY/120 SY.
2. Second coat
Asphalt: 0.25 to 0.30 gallons per square yard.
Aggregate: 1 CY/115 SY to 1CY/120 SY.
3. Rates are to be adjusted in the field by the Contractor based upon field conditions and test strips.

- C. Actual rates of application to be determined in the field by the Contractor based on actual conditions and test strips. Test strips are not paid for directly, but are considered subsidiary to various line items in the bid form. Adjustments in rates of application may be made if needed during the course of work.

3.2 LAYING:

- A. Asphalt shall be applied on the clean surface by an approved type of self-propelled pressure distributor. Each distributor shall be equipped with an onboard computer system, which controls the rate of application, so as to distribute the material in the quantity specified, evenly and smoothly, under the pressure necessary for proper distribution. The asphalt distributor must have been calibrated within the last three (3) years. The Contractor shall provide all necessary facilities for determining the temperature of the asphalt in all of the heating equipment and in the distributor, for determining the rate and pressure at which the asphalt is applied, and for securing uniformity at the junction of two distributor loads. **The beginning and ending of each shot of asphalt shall start and stop on a strip of heavy paper of not less than thirty (30) inches in width.** All manholes and valve boxes shall be accurately located and covered with paper before the asphalt is applied. On successive passes by the distributor, the asphalt shall be overlapped by no more than four inches in order to get uniform distribution.

In areas inaccessible to the distributor, asphalt shall be applied by means of a hand-held hose attached with spray nozzles to the distributor. Care shall be taken during application of any asphalt to shield the curb and gutter from the asphalt spray; satisfactory means of compliance with this requirement will be insisted upon.

Asphalt material shall not be applied until immediate coverage with aggregate is assured. Asphalt and aggregate shall not be spread over a greater yardage than can be rolled and finished in one day's operation during daylight hours.

- B. Immediately after the application of the asphalt, the surface shall be covered with aggregate. The aggregate shall be spread with an approved, self-propelled, continuous feed aggregate spreader box which controls the rate of application so as to apply the rates specified above. Immediately after the aggregate has been spread, it shall be thoroughly rolled with approved 12-

ton minimum rubber-tired Pneumatic Rollers. The Contractor will, as a minimum, maintain and operate two pneumatic rollers rated at 12-tons each, during all sealcoat operations. All areas covered by hand held hose requires rolling with only one pneumatic roller. The first rolling of the aggregate shall be completed within 15 minutes after it has been spread. Each pneumatic roller shall have a total compacting width of not less than 60 inches and shall have a minimum contact pressure of 45 pounds per square inch. Each trip shall overlap the previous trip by approximately one-half the width of the front wheels. The aggregate shall not be applied in such thickness as to cause "blanketing". Back-spotting or sprinkling of additional aggregate material, and application of additional asphalt material over areas that have insufficient aggregate cover or asphalt shall be done by hand whenever necessary.

When the sealcoat is applied in more than one strip, from 4 to 6 inches of the inside or adjoining edge shall be left uncovered with aggregate to allow for an overlap of asphalt when the adjacent strip is applied.

The aggregate course shall be rolled with pneumatic rollers to insure proper embedment of aggregate into the asphalt. The rolling shall be continued until no more aggregate material can be worked into the surface. Further rolling on the strip being placed and on adjacent strips previously placed, shall be done as often as necessary to keep the aggregate material uniformly distributed. These operations shall continue until the surface is evenly covered and cured.

When additional rolling is required the Contractor, shall provide a pneumatic roller as specified above to complete the rolling process.

Contractor shall be responsible for maintenance of the surface and the distribution of the excess aggregate until the work is accepted. Any additional aggregate required to cover bleeding or "fat" spots shall be furnished and applied by the Contractor.

After final rolling, surplus aggregate shall be swept off the surface and removed prior to final acceptance of the work. Excess aggregate shall be delivered to the Owner at a designated site.

3.3 CORRECTION OF DEFECTS:

Any defects, such as raveling, low centers, lack of uniformity, or other imperfections caused by faulty workmanship, shall be corrected to the satisfaction of the Engineer on-site prior to moving to the next location.

All defective materials resulting from over-heating, improper handling, or application shall be removed by the Contractor and replaced with approved materials as provided for in these specifications.

All repairs will be full width regardless of the area of failure. No spot patching will be allowed. Areas of lost aggregate or asphalt must be repaired by the contractor within ten (10) days of notification. If weather conditions are not favorable, the repair work will be postponed until the first available opportunity and a 10%

retainage will be withheld from payment until the repair work is accepted by the Owner/Engineer.

3.4 FIELD QUALITY CONTROL:

A. Laboratory Testing and Inspection Services: As specified in 01400.

3.5 CLEANUP

After completion of the sealcoat, all debris resulting from the construction shall be cleaned up and removed from the site of the work to an approved place of disposal. Gutters shall be cleaned of dirt, aggregate, or other materials which clog the gutter. All manholes and valves shall be exposed and any excess asphalt or aggregate cleaned and removed. The entire premise of the work shall be left in a clean condition satisfactory to the Engineer, and all costs of cleanup shall be included in the contract unit price for the time of work involved.

3.6 FINAL INSPECTION:

Upon completion of all work and cleanup, and prior to the Contractor removing any equipment from the project site a final inspection will be conducted. The Resident Project Representative (RPR) will conduct the inspection with representative from the Contractor and Owner. Any deficiencies discovered during the final inspection shall be corrected by the Contractor prior to leaving the project site. This shall not relieve the Contractor of the Contractor's responsibility for faulty materials or workmanship. The Contractor shall promptly replace any such defects discovered within one year of written acceptance of the work.

PART 4 METHOD OF MEASUREMENT

The seal coat to be paid for shall be the number of asphalt gallons and cubic yards of aggregate placed as measured in the field during construction. Final quantities shall be determined by the Engineer in conjunction with the Contractor of actual seal coat placed. A "Pay Estimate" for the work placed shall be submitted to the Engineer from the Contractor and then the Engineer shall submit a "Pay Request" to the Owner for payment as calculated from the unit bid items quoted in the proposal.

PART 5 BASIS OF PAYMENT

Payment shall be made at the contract unit prices established in the bid. This price shall be full compensation for cleaning, furnishing all materials and for all preparation, delivering, and application of these materials and for all labor, equipment, tools, and incidentals necessary to complete the item including rolling, finishing, and final cleanup.

END OF SECTION

2024 SEALCOAT PROJECT CITY OF GRANBURY GRANBURY, HOOD COUNTY, TEXAS

MAYOR

JIM JARRATT

CITY COUNCIL

EDDIE RODRIQUEZ
BRUCE WADLEY
SKIP OVERDIER
STEVEN VALE
GREG CORRIGAN

CITY MANAGER

CHRIS COFFMAN

ASSISTANT CITY MANAGER

RICK CROWNOVER

DIRECTOR OF PUBLIC WORKS

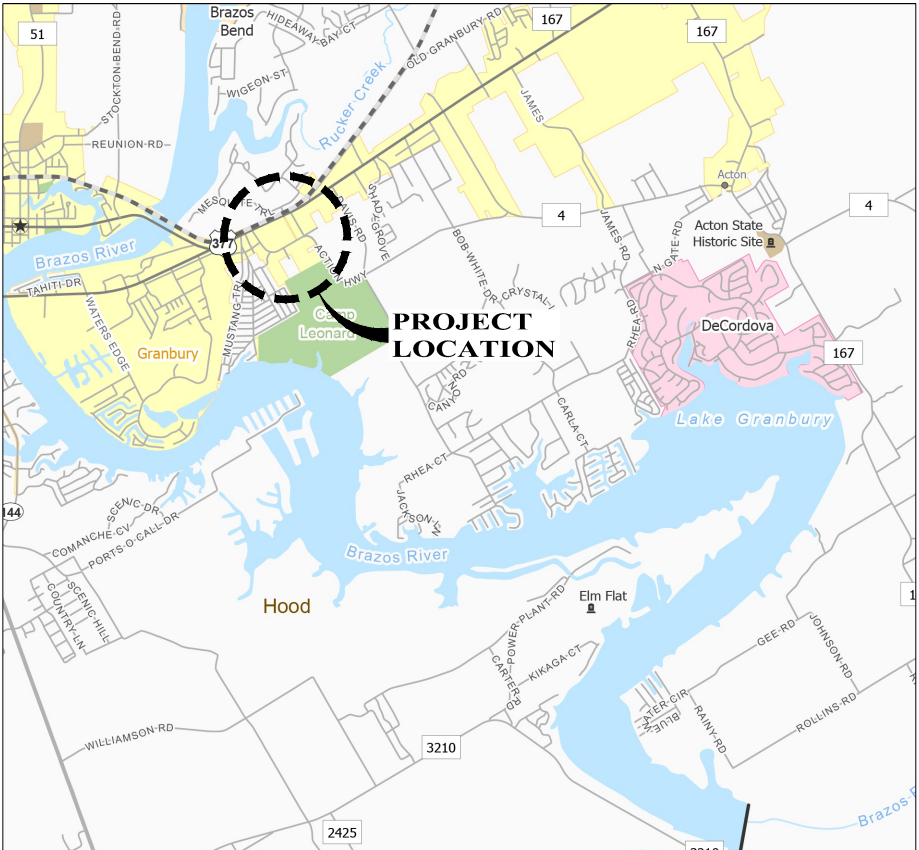
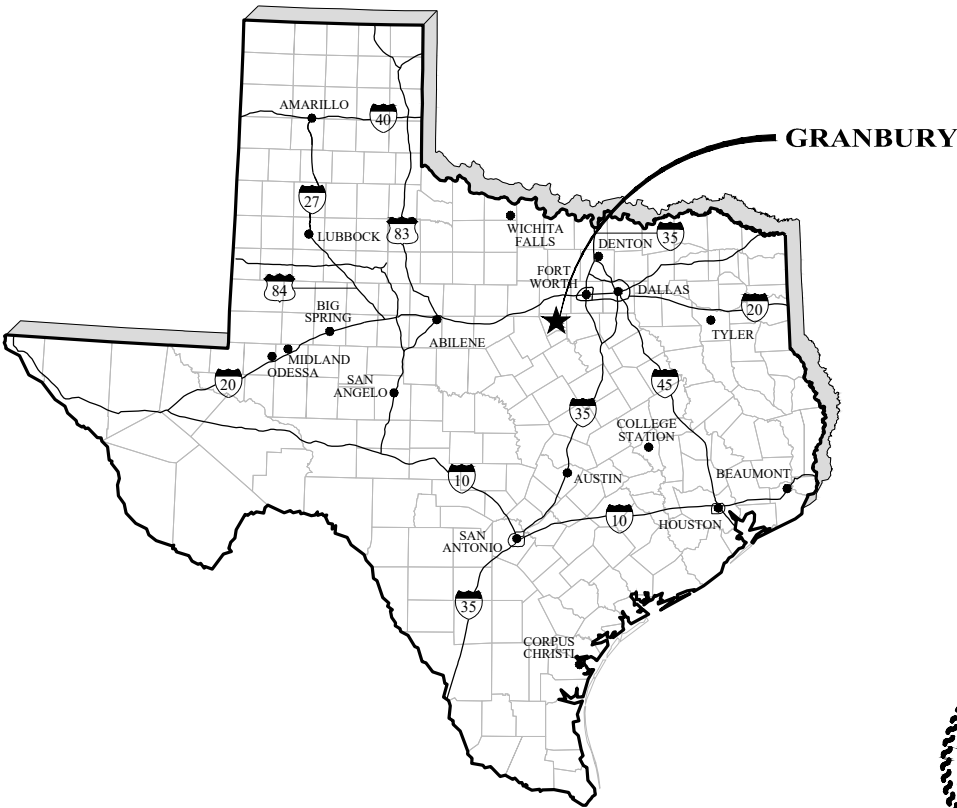
CHESTER NOLEN

STREET SUPERINTENDENT

DAVID CARVALHO

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THESE PLANS AND THE ACCOMPANYING SPECIFICATIONS ARE INTENDED TO PRODUCE A COMPLETE AND WORKING SYSTEM. ITEMS WHICH ARE NOT SPECIFICALLY ADDRESSED BY PAY ITEM ARE TO BE INTERPRETED AS SUBSIDIARY TO THE PROJECT OVERALL. PAYMENT AS OUTLINED IN THE PROPOSAL FORM MUST CONSTITUTE COMPLETE PAYMENT FOR ALL PERMITS, MATERIALS, LABOR, AND OTHER ITEMS REQUIRED TO COMPLETE THE PROJECT AS SHOWN AND AS SPECIFIED. ALL DEBRIS AND REMOVED MATERIAL MUST BE OWNED BY THE CONTRACTOR AND DISPOSED OF OFF PROPERTY OR SALVAGED APPROPRIATELY. ADVISE OF INTENT TO WORK ON SATURDAY BY CLOSE OF BUSINESS 5 PM THURSDAY.

PRIOR TO COMMENCING CONSTRUCTION IN ANY AREA, A REPRESENTATIVE OF THE CONTRACTOR MUST WALK THE AREA WITH THE PROJECT INSPECTOR AND MAKE A VIDEO RECORDING WHICH DENOTES THE EXISTING CONDITION AND LOCATION OF THE AREA AND THE DATE. A COPY OF THE VIDEO TAPE MUST BE FURNISHED TO THE ENGINEER AT THE PRE-CONSTRUCTION MEETING.

GENERAL CONSTRUCTION NOTES:

1. LENGTH AND WIDTHS SHOWN ARE FOR ESTIMATING PURPOSES ONLY. QUANTITIES FOR PAYMENT SHALL BE FIELD MEASURED AND APPROVED BY THE ENGINEER.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR AND ADEQUATELY PROTECT ALL CURBS, GUTTERS, MANHOLES, VALVE BOXES, ETC. AND REPAIR OR REPLACE DAMAGE CAUSED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR AND ADEQUATELY PROTECT PRIVATE PROPERTY, EXISTING STRUCTURES, UTILITIES, TREES, SHRUBS, AND OTHER ADJOINING FACILITIES, AND REPAIR OR REPLACE DAMAGE CAUSED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER

LOCATION:

THIS PROJECT IS TO BE CONSTRUCTED ENTIRELY WITHIN THE CITY'S RIGHT-OF-WAY. THE CONTRACTOR IS IN NO WAY AUTHORIZED BY THE CITY TO ENTER ONTO PRIVATE PROPERTIES FOR CONSTRUCTION, STORAGE OF EQUIPMENT OR MATERIALS, OR OTHER PURPOSES. ARRANGEMENTS SHOULD BE MADE BY THE CONTRACTOR WITH THE PROPERTY OWNERS FOR SUCH USE, AND A COPY OF ANY WRITTEN AGREEMENT MUST BE FURNISHED TO THE ENGINEER. EQUIPMENT & MATERIALS MUST NOT BE STORED IN THE PUBLIC RIGHT OF WAY OVERNIGHT.

UTILITIES:

THE CITY IS NOT RESPONSIBLE FOR DELAYS CAUSED TO THE CONTRACTOR BY INTERFERENCE FROM THE UTILITY COMPANIES.

TRAFFIC CONTROL:

THE CONTRACTOR MUST PROVIDE TEMPORARY BARRICADES IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WHENEVER WORKING WITHIN THE PUBLIC RIGHT-OF-WAY OF ANY STREET OR ALLEY. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE PRIOR TO THE START OF WORK WITHIN THE PUBLIC RIGHT-OF-WAY. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CITY FOR THE REMOVAL AND REPLACEMENT OF ALL TRAFFIC DEVICES. IN ADDITION, THE CONTRACTOR MUST PROVIDE TO THE CITY, A TRAFFIC CONTROL PLAN BEFORE ANY WORK IS DONE WITHIN THE PUBLIC RIGHT-OF-WAY. TRAFFIC CONTROL DETAILS HAVE BEEN INCLUDED IN THE PLANS. THE CONTRACTOR MUST ADHERE TO THESE DETAILS AND CONSIDER THE DETAILS THE MINIMUM REQUIREMENTS.

NO STREET CLOSURES WILL BE AUTHORIZED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

THE CONTRACTOR MUST REGULATE THE WORK SO THAT NO UNNECESSARY INTERFERENCE WITH TRAFFIC OR ACCESS TO PRIVATE PROPERTY IS CAUSED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR MUST PROVIDE SUITABLE BRIDGES, PROTECTIVE BARRICADES, AND OTHER SAFETY EQUIPMENT THAT MAY BE NECESSARY AT EVERY LOCATION WHERE TRAFFIC MUST CROSS CONSTRUCTION. THE CONTRACTOR MUST SCHEDULE OPERATIONS TO NOT AFFECT SCHOOL PICK UP AND DROP OFF FOR STREETS THAT ARE NEAR SCHOOLS. CONTRACTOR MUST MAINTAIN THROUGH TRAFFIC IN EACH DIRECTION, UNLESS APPROVED BY ENGINEER. OPERATION WILL REQUIRE FLAGGERS AT EACH END AND POSSIBLY AT EACH SIDE STREET.

SAFETY CONSIDERATIONS:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR THE SAFETY OF WORKERS AND THE GENERAL PUBLIC. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE OSHA GUIDELINES. THE CONTRACTOR MUST CONSOLIDATE EQUIPMENT AND MATERIALS IN A NEAT AND ORDERLY MANNER AT THE CLOSE OF EACH WORKING DAY. THE CONTRACTOR MUST COMPLY WITH ALL LOAD LIMITED STREETS WHEN MATERIALS OR EQUIPMENT ARE DELIVERED TO OR TRANSPORTED FROM THE WORKSITE. NO DRIVEWAYS WILL BE BLOCKED OVERNIGHT OR FOR EXTENDED TIME PERIODS. EQUIPMENT MUST NOT BE STORED ON THE ROAD OVERNIGHT. STORAGE OF EQUIPMENT IN THE CITY RIGHT-OF-WAY MUST BE APPROVED BY ENGINEER.

CLEANING:

THE CONTRACTOR MUST REMOVE ALL SURPLUS EXCAVATION MATERIAL, RUBBISH AND UNUSED MATERIAL FROM THE WORKSITE AND REMEDY ANY OBJECTIONABLE CONDITIONS CREATED ON ADJACENT PRIVATE PROPERTY AS THE CONSTRUCTION PROGRESSES. LOOSE MATERIAL ON ROADWAY SURFACES MUST BE SWEEPED OR BROOMED AND PICKED UP IMMEDIATELY. THE CONTRACTOR MUST MAKE EVERY EFFORT TO KEEP DUST TO A MINIMUM AND MUST ENSURE THAT CONSTRUCTION DEBRIS IS NOT SPREAD ONTO ADJACENT STREETS, SIDEWALKS OR YARDS. ANY DEBRIS INADVERTENTLY SPILLED OR LEFT ON STREETS, GUTTERS, SIDEWALKS OR YARDS WILL BE PROMPTLY REMOVED TO THE SATISFACTION OF THE ENGINEER. DEMO OPERATIONS WILL NOT BE PERMITTED TO MOVE TO ANOTHER LOCATION UNTIL CLEAN-UP IS COMPLETE FOR THE CURRENT LOCATION OF THE WORK ON EACH INDIVIDUAL STREET. THE CONTRACTOR MUST RENDER THE STREET SUITABLE, SAFE AND CONVENIENT FOR TRAFFIC AND LEAVE THE RIGHT-OF-WAY IN A NEAT AND PRESENTABLE CONDITION. BEFORE FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR MUST CLEAN THE STREET SURFACE, WALKS, GUTTERS, LAWNS ON ADJACENT PRIVATE PROPERTY, AND ALL RIGHT-OF-WAYS, RETURNING THEM TO ORIGINAL CONDITION AND MUST REMOVE ALL MACHINERY, TOOLS AND SURPLUS MATERIALS FROM THE WORK SITE. ALL MATERIAL REMOVED FROM THE WORK SITE BECAUSE OF THE FINAL CLEANING OPERATION WILL BECOME THE PROPERTY OF THE CONTRACTOR. FINAL CLEANING UP WILL BE SUBJECT TO APPROVAL OF THE ENGINEER AND IN ACCORDANCE WITH APPLICABLE REGULATIONS. IF CLEANING IS FOUND UNSATISFACTORY, PAYMENT WILL BE WITHHELD AND NO FURTHER WORK WILL BE ALLOWED TO COMMENCE. FULL COMPENSATION FOR FINAL CLEANING UP WILL BE CONSIDERED AS INCLUDED IN THE PRICES PAID FOR THE VARIOUS CONTRACT ITEMS OF WORK AND NO SEPARATE PAYMENT WILL BE MADE THEREFORE.

PROJECT CLEAN UP:

THE CONTRACTOR MUST BE AWARE THAT KEEPING THE PROJECT SITE IN A NEAT AND ORDERLY CONDITION IS CONSIDERED AN INTEGRAL PART OF THE CONTRACTED WORK AND AS SUCH MUST BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEMS. CLEAN UP WORK MUST BE DONE AS DIRECTED BY THE ENGINEER AS THE WORK PROGRESSES OR AS NEEDED. IF, IN THE OPINION OF THE ENGINEER IT IS NECESSARY, CLEAN-UP MUST BE DONE ON A DAILY BASIS. CLEAN UP WORK MUST INCLUDE, BUT NOT BE LIMITED TO:

- 1) REMOVING THE TRASH, PAPER, RUBBISH AND DEBRIS RESULTING FROM OPERATIONS
- 2) SWEEPING STREETS CLEAN OF DIRT OR DEBRIS
- 3) ALLEVIATING ANY DUST NUISANCE IN THE WORK AREA
- 4) STORING EXCESS MATERIAL IN APPROPRIATE AND ORGANIZED MANNER
- 5) KEEPING TRASH OF ANY KIND OFF OF RESIDENTS' PROPERTY

IF THE ENGINEER DOES NOT FEEL THAT THE JOBSITE HAS BEEN KEPT IN AN ORDERLY CONDITION, ON THE NEXT ESTIMATE PAYMENT (AND ALL SUBSEQUENT PAYMENTS UNTIL COMPLETED) OF THE APPROPRIATE BID ITEM(S) WILL BE REDUCED BY 25%.

UPON COMPLETION OF THE WORK AND BEFORE FINAL ACCEPTANCE AND FINAL PAYMENT MUST BE MADE, THE CONTRACTOR MUST COMPLETELY CLEAN AND REMOVE FROM THE SITE OF WORK ALL EQUIPMENT, CONSTRUCTION MATERIALS, SURPLUS AND DISCARDED MATERIALS, TEMPORARY STRUCTURES AND DEBRIS OF EVERY KIND. CONTRACTOR MUST LEAVE THE SITE OF THE WORK IN A NEAT AND ORDERLY CONDITION EQUAL TO THAT WHICH ORIGINALLY EXISTED, OR AS CALLED FOR IN THE CONTRACT DOCUMENTS. SURPLUS AND WASTE MATERIALS REMOVED FROM THE SITE OF THE WORK MUST BE DISPOSED OF AT LOCATIONS SATISFACTORY TO THE ENGINEER, AND AT THE CONTRACTOR'S SOLE COST.

MAINTENANCE OF STREETS AND SIDEWALKS DURING CONSTRUCTION:

THE CONTRACTOR MUST CONTINUOUSLY MAINTAIN THE SURFACES OF STREETS AND SIDEWALKS ON WHICH WORK WAS OR IS BEING PERFORMED. THE MAINTENANCE REQUIRED MUST INCLUDE THE FILLING OF HOLES; BLADING OR OTHERWISE SMOOTHING OF THE STREET SURFACES (PARTICULARLY IN A TRENCH AREA); CLEANING AND REMOVAL OF SURPLUS EXCAVATION, MATERIAL, RUBBISH, ETC.; SPRINKLING OF STREETS TO ABATE DUST NUISANCES AND THE ELIMINATION OF INTERFERENCE RESULTING FROM BLOCKING THE STREETS TO RESIDENTS OR BUSINESSES THEREON. ANY OR ALL SUCH OPERATIONS MUST BE PERFORMED BY THE CONTRACTOR UPON DEMAND BY THE OWNER, BUT THE CONTRACTOR MUST NOT WAIT FOR INSTRUCTION FROM THE OWNER BEFORE PERFORMING MAINTENANCE WORK OBVIOUSLY IN NEED OF BEING DONE TO MEET THE REQUIREMENTS OF THESE SPECIFICATIONS. ALL COSTS OF WORK BY THIS PARAGRAPH MUST BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS OF WORK, AND NO SEPARATE PAYMENT MUST BE MADE.

CLEANUP:

AFTER COMPLETION OF THE SEAL COAT, ALL DEBRIS RESULTING FROM THE CONSTRUCTION MUST BE CLEANED UP AND REMOVED FROM THE SITE OF THE WORK TO AN APPROVED PLACE OF DISPOSAL. GUTTERS MUST BE CLEANED OF DIRT, AGGREGATE, OR OTHER MATERIALS WHICH WOULD CLOG THE GUTTER. ALL MANHOLES AND VALVE BOXES MUST BE EXPOSED AND ANY EXCESS ASPHALT OR AGGREGATE CLEANED AND REMOVED. THE ENTIRE PREMISES OF THE WORK MUST BE LEFT IN A CLEAN CONDITION SATISFACTORY TO THE ENGINEER, AND ALL COSTS OF CLEANUP MUST BE INCLUDED IN THE CONTRACT UNIT PRICES FOR THE ITEMS OF WORK INVOLVED. EACH STREET SHOULD BE CLEANED IMMEDIATELY AFTER THE SEAL COAT IS PLACED.

TEMPORARY TRAFFIC CONTROL:

DESCRIPTION: THE WORK COVERED BY THIS SPECIAL SPECIFICATION CONSISTS OF PROVIDING ALL THE PERSONNEL (INCLUDING FLAGGERS) AND/OR SIGNING AND MARKING, NOT DIRECTLY PAID FOR BY ANY OTHER PAY ITEM, NECESSARY TO ENSURE NO UNNECESSARY INTERFERENCE WITH TRAFFIC OR ACCESS TO PRIVATE PROPERTY AND SAFE CONSTRUCTION WORK ZONES AS DIRECTED BY THE ENGINEER AND AS SPECIFIED HEREIN.

THE CONTRACTOR MUST ADHERE TO THE SPECIFICATIONS IN THIS ITEM AND THE DETAILS PROVIDED IN THE PLANS. THESE DETAILS AND SPECIFICATIONS WILL BE CONSIDERED A MINIMUM STANDARD.

REFERENCE STANDARDS: FLAGGING PERSONNEL, HAND SIGNALING PROCEDURES AND TRAFFIC CONTROL DEVICES, INCLUDING TEMPORARY PAVEMENT MARKINGS, MUST COMPLY WITH THE REQUIREMENTS OF THE "TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" LATEST REVISION.

EXECUTION: CONTRACTOR MUST PUT IN PLACE PROPER TEMPORARY TRAFFIC CONTROL PERSONNEL AND/OR DEVICES PRIOR TO THE BEGINNING OF WORK IN ANY PUBLIC RIGHT-OF-WAY TO DIRECT AND PROTECT VEHICULAR AND PEDESTRIAN TRAFFIC. THE CONTRACTOR WILL BE REQUIRED TO COVER, RESET OR REMOVE ALL TRAFFIC CONTROL DEVICES WHICH MAY BE INCONSISTENT WITH TRAFFIC PATTERNS DURING ALL PHASES OF CONSTRUCTION. A PERMIT WILL BE REQUIRED FOR ANY TRAFFIC CONTROL WHICH IS TO BE PLACED ON TXDOT RIGHT-OF-WAY. THIS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND PROVIDE A COPY OF THE PERMIT TO THE CITY BEFORE WORK BEGINS ON TXDOT RIGHT-OF-WAY. THE CONTRACTOR IS URGED TO USE THE TXDOT TRAFFIC CONTROL DETAILS PROVIDED IN THE PLANS TO HELP EXPEDITE THE PERMIT PROCESS WITH TXDOT.

TRAFFIC CONTROL DEVICES: ALL STREETS THAT HAVE RESTRICTED ACCESS MUST BE PROTECTED BY MEANS OF EFFECTIVE BARRICADES ON WHICH WILL BE PLACED ACCEPTABLE WARNING SIGNS. ALL PERMANENT AND TEMPORARY (CONSTRUCTION ZONE) TRAFFIC CONTROL DEVICES MUST CONFORM TO TXMUTCD AND TXDOT STANDARDS, LATEST REVISION.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE IMMEDIATE REPAIR OR REPLACEMENT OF ALL TRAFFIC CONTROL DEVICES THAT BECOME DAMAGED, MOVED OR DESTROYED, OF ALL LIGHTS THAT CEASE TO FUNCTION PROPERLY, AND OF ALL BARRICADE WEIGHTS THAT ARE DAMAGED, DESTROYED, OR OTHERWISE FAIL TO STABILIZE THE BARRICADES. THE CONTRACTOR MUST FURTHER PROVIDE SUFFICIENT SURVEILLANCE OF ALL TRAFFIC CONTROL DEVICES AT LEAST ONCE EVERY TWENTY-FOUR (24) HOURS.

THE CONTRACTOR MUST FURNISH NAMES, ADDRESSES, AND PHONE NUMBERS OF AT LEAST THREE (3) INDIVIDUALS RESPONSIBLE FOR THE PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS MUST BE "ON CALL" TWENTY-FOUR (24) HOURS PER DAY, SEVEN DAYS PER WEEK DURING THE TIMES ANY TRAFFIC CONTROL DEVICES, FURNISHED AND INSTALLED BY THE CONTRACTOR, ARE IN PLACE. THE REQUIRED INFORMATION MUST BE SUBMITTED TO THE ENGINEER AT THE PRE- CONSTRUCTION CONFERENCE.

THE CONTRACTOR WILL BE REQUIRED TO RESPOND IMMEDIATELY TO ANY CALL FROM THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE CONCERNING ANY REQUEST FOR IMPROVING OR CORRECTING TRAFFIC CONTROL DEVICES. IF THE CONTRACTOR IS NEGLIGENT IN CORRECTING THE DEFICIENCY WITHIN ONE HOUR OF NOTIFICATION THE CONTRACTOR WILL BE SUBJECT TO A CESSATION IN ANY OTHER OPERATIONS OF THE PROJECT UNTIL ENGINEER DETERMINES TRAFFIC CONTROL IS IN COMPLIANCE.

FLAGGERS: THE CONTRACTOR MUST FURNISH FLAG PERSONS TO ADEQUATELY CONTROL TRAFFIC. FLAGGERS MUST BE ABLE TO SPEAK ENGLISH AND COMMUNICATE SUFFICIENTLY WITH THE PUBLIC AND MUST BE NEAT IN APPEARANCE. ALL COSTS INCURRED TO PROVIDE SUCH FLAG PERSONS WILL BE INCIDENTAL TO THE PROJECT.

FLAGGERS MUST BE IN COMPLIANCE WITH MUTCD REQUIREMENTS, SPECIFICALLY THE FOLLOWING: FLAGGERS MUST BE EQUIPPED WITH A SLOW-STOP PADDLE IN LIEU OF THE STANDARD FLAG. THE STOP/SLOW SIGN PADDLE MUST BE EIGHTEEN (18) INCHES SQUARE WITH LETTERS AT LEAST SIX (6) INCHES HIGH. A RIGID HANDLE MUST BE PROVIDED.

THIS COMBINATION SIGN SHOULD BE FABRICATED FROM LIGHT SEMI-RIGID MATERIAL, AND MUST HAVE AN OCTAGONAL SHAPE. THE BACKGROUND OF THE STOP FACE MUST BE RED WITH WHITE LETTERS AND BORDER. THE BACKGROUND OF THE SLOW FACE MUST BE ORANGE WITH BLACK LETTERS AND BORDER. THE STOP/SLOW PADDLE MUST BE RETRO-REFLECTORIZED.

FLAGGERS MUST WEAR AN APPROVED HARD HAT AND RETRO-REFLECTIVE SAFETY VEST AT ALL TIMES WHILE ACTIVELY FLAGGING ON THE PROJECT. THE RETRO-REFLECTIVE MATERIAL MUST BE ORANGE, YELLOW, WHITE, SILVER, STRONG YELLOW-GREEN OR A FLUORESCENT VERSION OF ONE OF THESE COLORS AND MUST BE VISIBLE AT A MINIMUM DISTANCE OF ONE THOUSAND (1,000) FEET. THE RETRO-REFLECTIVE CLOTHING MUST BE DESIGNED TO CLEARLY IDENTIFY THE WEARER AS A PERSON AND BE VISIBLE THROUGH THE FULL RANGE OF BODY MOTIONS. THE CONTRACTOR WILL BE SUBJECT TO A CESSATION IN OTHER OPERATIONS FOR FAILURE TO ADHERE TO THE CLOTHING REQUIREMENTS AS LISTED ABOVE.

THE CONTRACTOR MUST PROVIDE TWO-WAY RADIOS FOR FLAG PERSONS.

THE CONTRACTOR MUST COORDINATE THE FLAGGING OPERATIONS IN A MANNER WHICH CAUSES AS LITTLE DELAY TO THE TRAVELING PUBLIC AS POSSIBLE, AND AT NO TIME WILL THE DELAY EXCEED FIVE (5) MINUTES. IN THE EVENT THAT THE CONTRACTOR IS UNABLE TO MEET THE MAXIMUM DELAY REQUIREMENTS, OPERATIONS MUST SHUT DOWN UNTIL SUCH TIME A NEW TRAFFIC CONTROL PLAN IS DEVELOPED WHICH DOES MEET THE MAXIMUM DELAY REQUIREMENT.

IF HAULING OPERATIONS CREATE HAZARDS FOR THE TRAVELING PUBLIC, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE ADDITIONAL FLAGGERS, AS DIRECTED BY THE ENGINEER. ALL COSTS INCURRED TO PROVIDE THE ADDITIONAL FLAGGERS WILL BE INCIDENTAL TO THE PROJECT.

NOTIFICATION OF RESIDENTS/BUSINESSES:

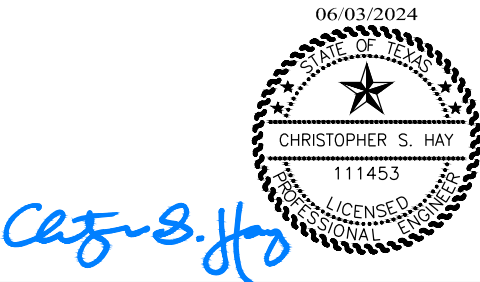
CONTRACTOR MUST NOTIFY RESIDENTS/BUSINESSES OF CONSTRUCTION ONE WEEK PRIOR TO CONSTRUCTION START. COORDINATE CLOSURE OF DRIVEWAYS ALONG THE ALIGNMENT TWO WEEKS IN ADVANCE. CONTRACTOR SHALL ARRANGE ACCESS TO EXISTING DRIVEWAYS OR PROVIDE/MAINTAIN ALTERNATIVE ALL-WEATHER ROUTE.


1. A NOTICE PREPARED BY THE CONTRACTOR AND APPROVED BY THE CITY SHALL BE HAND DELIVERED BY THE CONTRACTOR TO ALL RESIDENTS/BUSINESSES WITHIN THE VICINITY OF CONSTRUCTION NOTIFYING THEM OF THE PROPOSED CONSTRUCTION AND POSSIBLE DISRUPTIONS IN SERVICE TO WATER, SEWER, ROADS, ACCESS, ETC. NOTICE SHALL INCLUDE DATES AND PHONE NUMBERS TO CONTACT IN CASE OF ANY QUESTIONS. A CONTRACTOR REPRESENTATIVE SHALL BE THE MAIN POINT OF CONTACT ON THE NOTICE.
2. MAINTAIN ACCESS TO ALL PROPERTIES AFFECTED BY CONSTRUCTION BY A METHOD APPROVED BY THE CITY AND ENGINEER. COST FOR MAINTAINING ACCESS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID PRICES OF THE CONTRACT.

GRANBURY 2024 CHIP SEAL COAT - QUANTITIES					
ITEM DESCRIPTION	QUANTITY	LENGTH	WIDTH	TOTAL AREA (SF)	TOTAL AREA (SY)
2-COURSE SURFACE TREATMENT		3,450 LF	30'	108,389	25,420
4" WIDE SOLID YELLOW STRIPES	2	3,010 LF	4"		
8" WIDE SOLID WHITE STRIPE	1	100 LF	8"		
2' WIDE STOP BAR STRIPING	1	32 LF	24"		
TURN ARROW STRIPING	2				
REFLECTIVE RAISED PAVEMENT MARKERS	86				

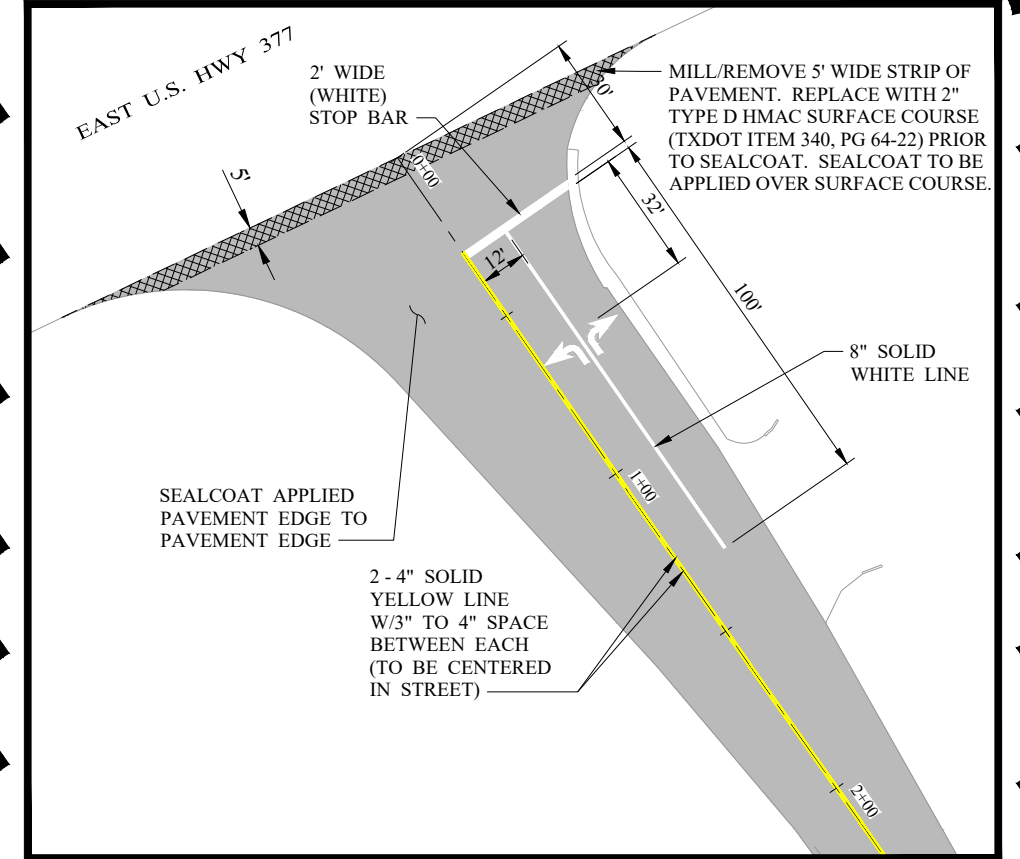
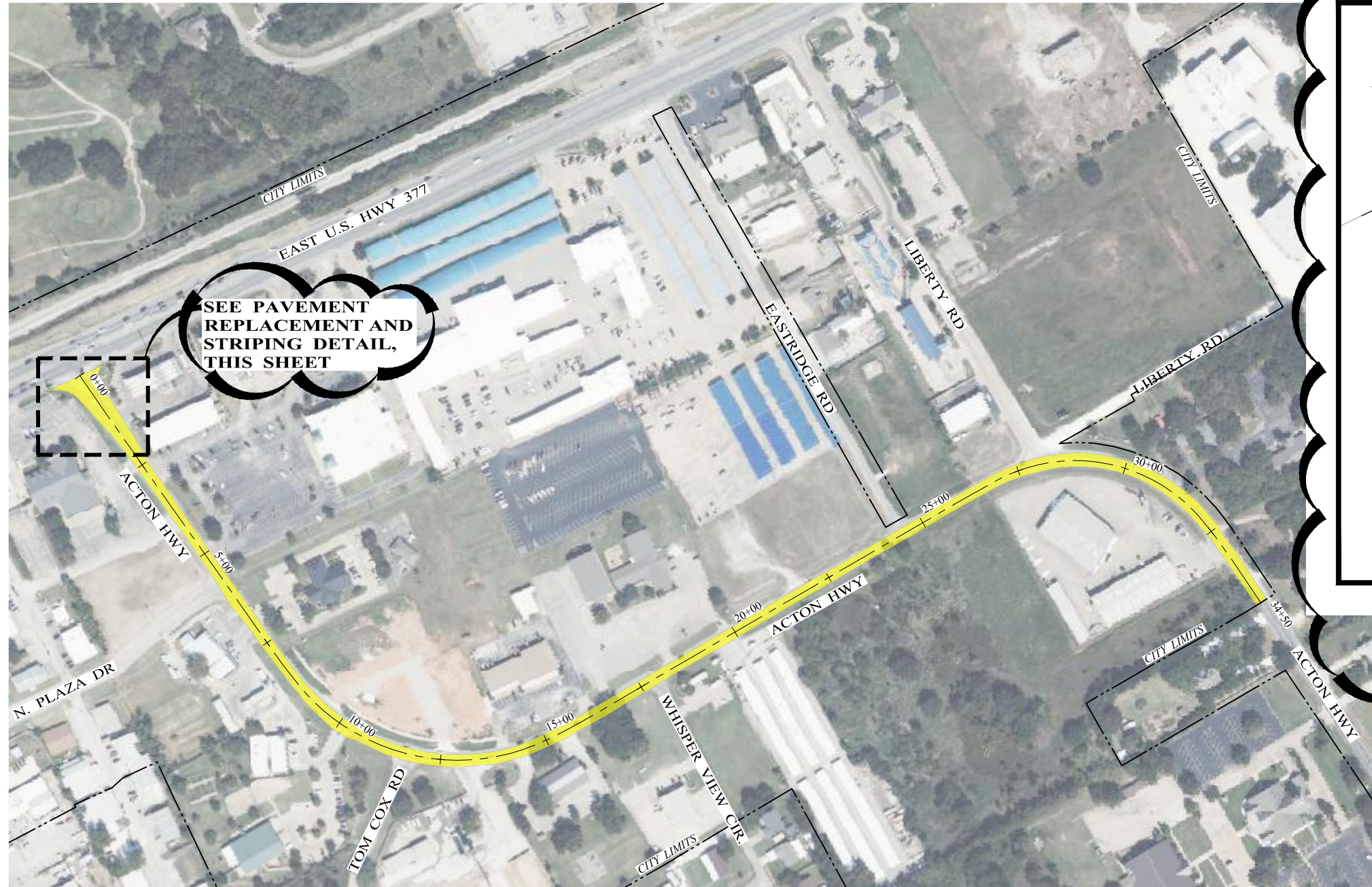
NOTE

1. QUANTITIES FOR CONTRACTOR REFERENCE ONLY.



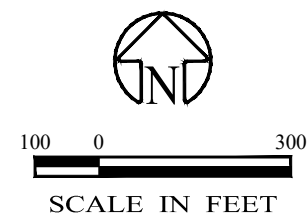
<div><div><div>Enprotec Hibbs & Todd</div><div><small>4102 Cedar Street • Abilene, Texas 79601 • T: (325) 698-5560 • F: (325) 698-3240 • www.eht.com PE Firm Registration No. 1151 • PG Firm Registration No. 50103 • RPLS Firm Registration No. 1001900</small></div></div></div>	6523-40 PROJECT NO.
	06/03/2024 DATE
	W. SMITH DESIGNED BY: D. BORCIK DRAWN BY: C. HAY CHECKED BY:
2024 SEALCOAT PROJECT CITY OF GRANBURY GRANBURY, HOOD COUNTY, TEXAS	
GENERAL NOTES AND QUANTITIES	
2 OF 5	

P:\Projects\Granbury, City of\6523-40 Old Acton Highway Sealcoat Project\10_CAD\7. CONST\4. SHEETS\6523 - 03.dwg



PAVEMENT REPLACEMENT AND STRIPING DETAIL

SCALE: 1" = 50'



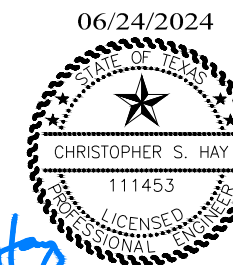
LEGEND

BASE BID


NOTE

1. ALL AREAS DEPICTED ARE FOR TWO COURSE SURFACE TREATMENT

Christopher S. Hay



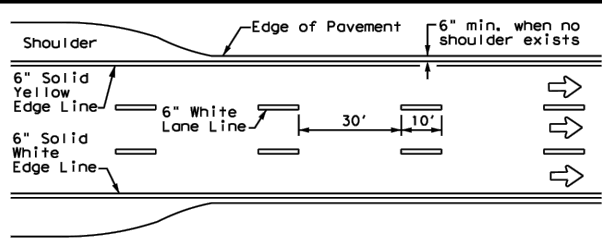
ADDENDUM #1: 06/24/2024

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	06/03/2024 DATE
2024 SEALCOAT PROJECT CITY OF GRANBURY GRANBURY, HOOD COUNTY, TEXAS	W. SMITH DESIGNED BY: D. BORCIK DRAWN BY: C. HAY CHECKED BY:
OVERALL PROJECT LAYOUT	3 OF 5

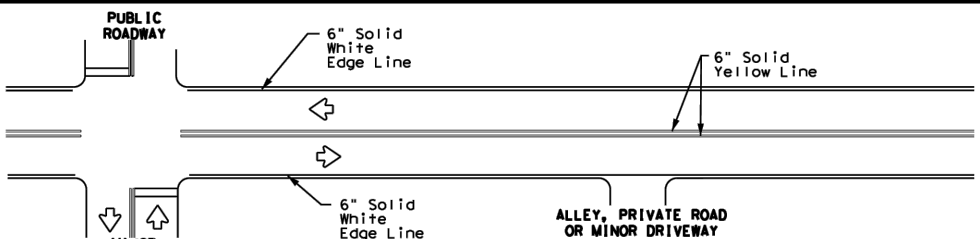
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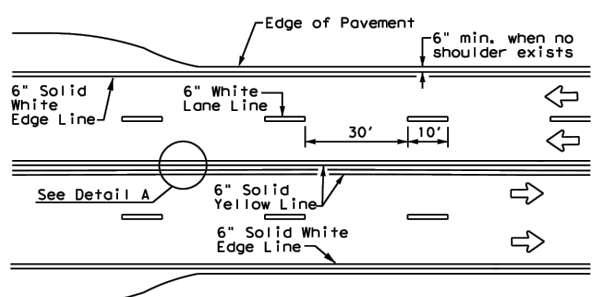
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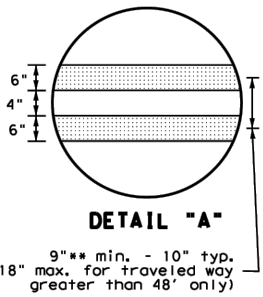
EDGE LINE AND LANE LINES
ONE-WAY ROADWAY
WITH OR WITHOUT SHOULDERS



TYPICAL TWO-LANE, TWO-WAY PAVEMENT
MARKINGS THROUGH INTERSECTIONS



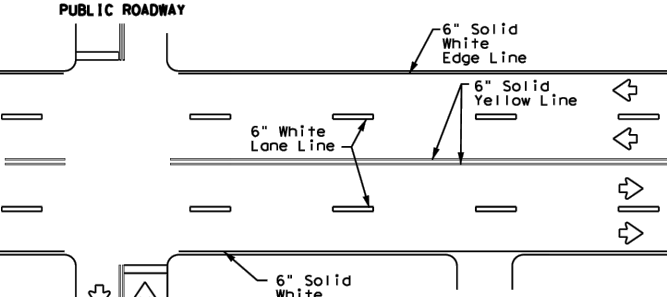
CENTERLINE AND LANE LINES
FOUR LANE TWO-WAY ROADWAY
WITH OR WITHOUT SHOULDERS



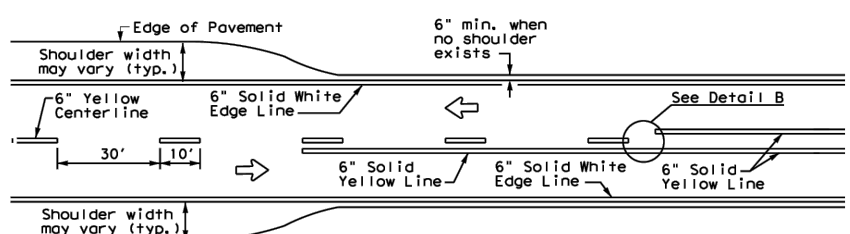
DETAIL "A"

9" min. - 10" typ.
(18" max. for traveled way
greater than 48' only)

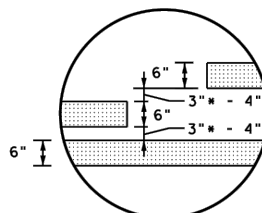
* 2" minimum
for restripe
projects when
approved by
the Engineer.
** 8" minimum
for restripe
projects when
approved by
the Engineer.



TYPICAL MULTI-LANE, TWO-WAY PAVEMENT
MARKINGS THROUGH INTERSECTIONS



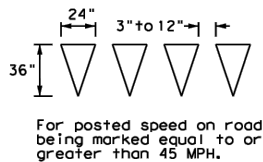
TWO LANE TWO-WAY ROADWAY
WITH OR WITHOUT SHOULDERS



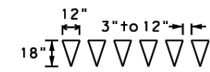
DETAIL "B"

* 2" minimum for restripe projects
when approved by the Engineer.

18" min. - 20" max.
(16" minimum for
restripe projects
when approved by
the Engineer.)



YIELD LINES



For posted speed on road
being marked equal to or
less than 40 MPH.

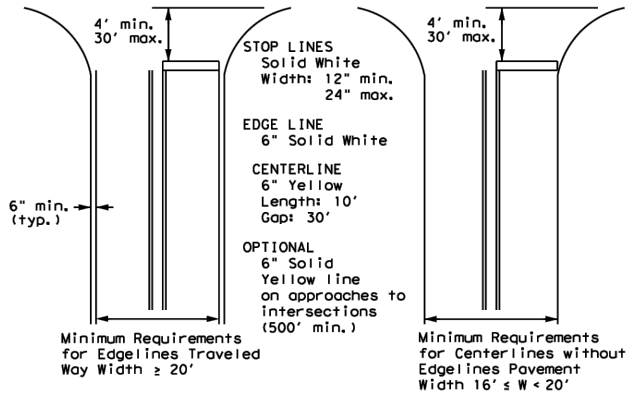
GENERAL NOTES

- Edge line striping shall be as shown in the plans or as directed by the Engineer. The edge line should not be placed less than 6 inches from the edge of pavement. This distance may vary due to pavement raveling or other conditions. Edge lines are not required in curb and gutter sections of roadways.
- The traveled way includes only that portion of the roadway used for vehicular travel. It does not include the parking lanes, sidewalks, berms and shoulders. The traveled ways shall be measured from the center of edge line to the center of edge line of a two lane roadway.

MATERIAL SPECIFICATIONS

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

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



NOTE: Traveled way is exclusive of shoulder widths.
Refer to General Note 2 for additional details.

GUIDE FOR PLACEMENT OF STOP LINES,
EDGE LINE & CENTERLINE

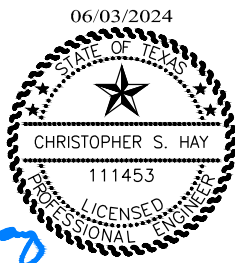
Based on Traveled Way and Pavement Widths
for Undivided Roadways



TYPICAL STANDARD
PAVEMENT MARKINGS

PM(1) - 22

FILE:	pm1-22.dgn	DWG:	CK:	DWG:	CK:
© TxDOT	December 2022	CONT:	SECT:	JOB:	HIGHWAY:
11-78	8-00	6-20			
8-95	3-03	12-22			
5-00	2-12				
22A					



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2024 SEALCOAT PROJECT
CITY OF GRANBURY
GRANBURY, HOOD COUNTY, TEXAS

TxDOT STANDARD DETAILS

6523-40
PROJECT NO.

06/03/2024
DATE

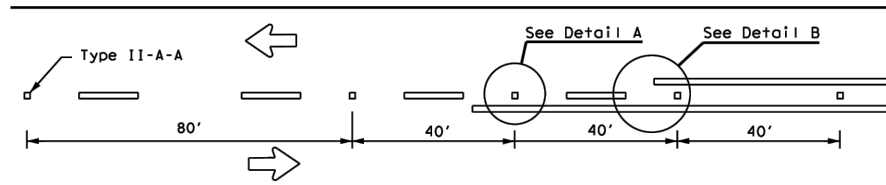
W. SMITH
DESIGNED BY:
D. BORCIK
DRAWN BY:
C. HAY
CHECKED BY:

4 OF 5

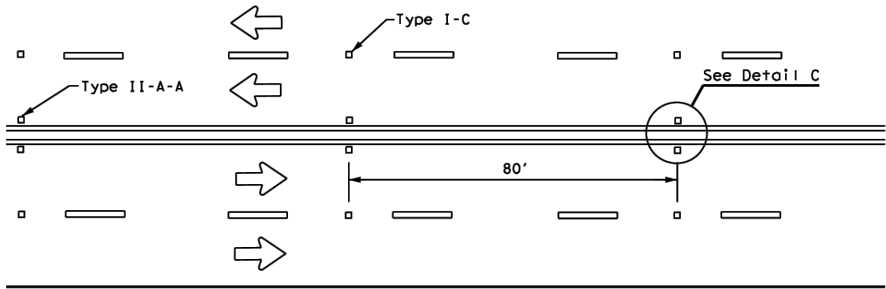
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DATE: FILE:

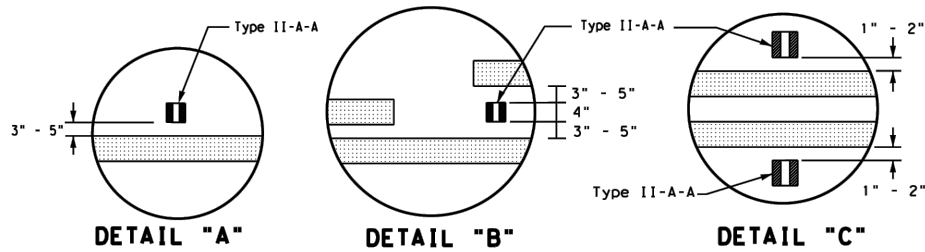
REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE



CENTERLINE FOR ALL TWO LANE TWO-WAY ROADWAYS



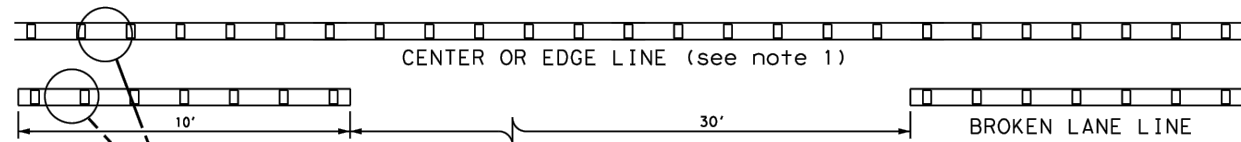
CENTERLINE & LANE LINES
FOR FOUR LANE TWO-WAY ROADWAYS



DETAIL "A"

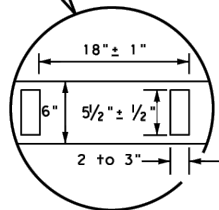
DETAIL "B"

DETAIL "C"



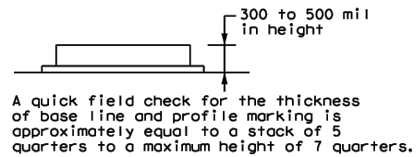
CENTER OR EDGE LINE (see note 1)

BROKEN LANE LINE



6" EDGE LINE, 6" CENTERLINE
OR 6" LANE LINE

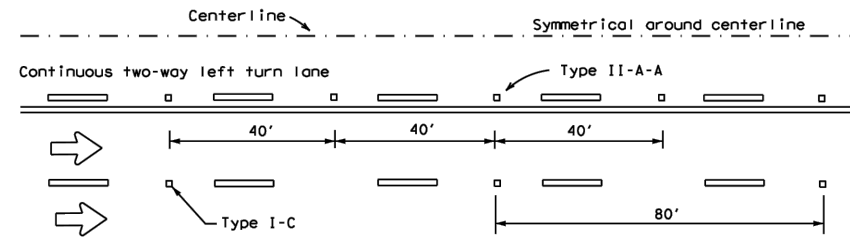
REFLECTORIZED PROFILE
PATTERN DETAIL
USING REFLECTIVE PROFILE PAVEMENT MARKINGS



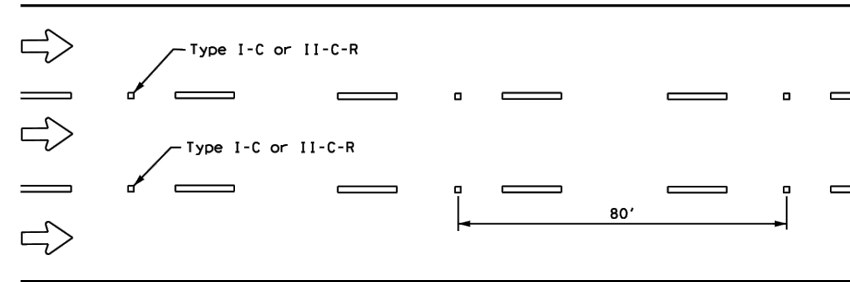
A quick field check for the thickness of base line and profile marking is approximately equal to a stack of 5 quarters to a maximum height of 7 quarters.

NOTES

1. Edge lines should typically be 6" wide and the materials shall be specified in the plans.
2. Profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.



CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE



LANE LINES FOR ONE-WAY ROADWAY (NON-FREEWAY FACILITIES)

Raised pavement markers Type II-C-R shall have clear face toward normal traffic and red face toward wrong-way traffic.
See Note 3.

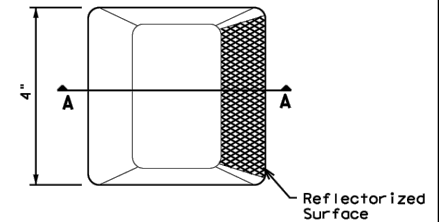
GENERAL NOTES

1. All raised pavement markers placed along broken lines shall be placed in line with and midway between the stripes.
2. On concrete pavements, the raised pavement markers should be placed to one side of the longitudinal joints.
3. Use raised pavement marker Type I-C with undivided roadways, flush medians, and two way left turn lanes. Use raised pavement marker Type II-C-R with divided highways and raised medians.

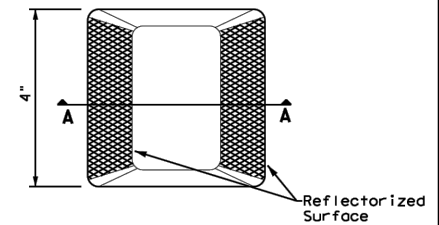
MATERIAL SPECIFICATIONS

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

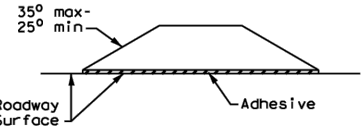
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



Type I (Top View)



Type II (Top View)



SECTION A

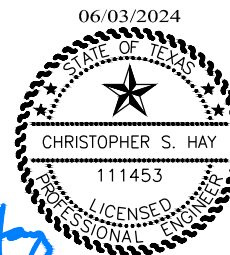
RAISED PAVEMENT MARKERS



POSITION GUIDANCE USING RAISED MARKERS REFLECTORIZED PROFILE MARKINGS PM(2) -22

FILE: pm2-22.dgn	DWG: CK1	DWG: CK1	CK1
© TxDOT December 2022	CONT	SECT	JOB
4-77 8-00 6-20	DIST	COUNTY	SHEET NO.
4-92 2-10 12-22			
5-00 2-12			

228



Christopher S. Hay



2024 SEALCOAT PROJECT
CITY OF GRANBURY
GRANBURY, HOOD COUNTY, TEXAS

TxDOT STANDARD DETAILS

6523-40
PROJECT NO.

06/03/2024
DATE

W. SMITH
DESIGNED BY:
D. BORCIK
DRAWN BY:
C. HAY
CHECKED BY:

4 OF 5