

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 8/05/2016

Control	0237-03-030, ETC.
Project	BR 1602(506)
Highway	SH 44
County	WEBB

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: BR 1602(506)

CONTROL: 0237-03-030

COUNTY: WEBB

LETTING: 08/09/2016

REFERENCE NO: 0804

PROPOSAL ADDENDUMS

PROPOSAL COVER

X BID INSERTS (SH. NO.: Sh. 1 - 7 of 7.)

X GENERAL NOTES (SH. NO.: Sh. A through Q of Q.)

X SPEC LIST (SH. NO.: 1 through 3 of 3.)

SPECIAL PROVISIONS:

ADDED:

DELETED:

X SPECIAL SPECIFICATIONS:

ADDED: 6001

DELETED:

X OTHER: Plans.

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

Proposal:

Bid Inserts, sheet 1 - 7 of 7. - added Item 432-6044, 459-6001, 508-6001, 510-6003, and 6001-6002; deleted Item 432-6001, and 681-6001; revise qtys on Item 104-6009, 247-6041, 310-6009, 316-6015, 316-6432, 341-6008, 512-6072, 512-6076, and 662-6063.

General Notes, sheet A through Q - deleted first eight paragraphs from Item 7, deleted first paragraph from Item 8, deleted Item 680, and deleted Item 681.

Specification List, sheet 1 through 3 of 3 - added Item 459, 508, 510, and 6001; deleted Item 681.

Plans:

Sh. 2-deleted 12, and 12A.

Sh. 5, 6, 7, 8, 9, 10, 11, 12, and 12A- Item 7 deleted first eight paragraphs, Item 8 deleted first paragraph, Item 680 deleted notes, Item 681 deleted notes; deleted sheet 12 and 12A; text shifted on remaining sheets.

Sh. 13 and 14-added Item 432-6044, 459-6001, 508-6001, 510-6003, and 6001-6002; deleted 432-6001, and 681-6001; revised qtys on Item 104-6009, 247-6041, 310-6009, 316-6015, 316-6432, 341-6008, 512-6072, 512-6076, 662-

DESCRIPTION OF ABOVE CHANGES

(CONTINUED)

(INCLUDING PLANS SHEET CHANGES)

6063.

Sh. 16-added Item 508-6001, 510-6003, and 6001-6002; revised Item qtys. 512-6072, 512-6076, and 662-6063; deleted Item 681-6001.

Sh. 17-added Item 432-6044, 459-6001; revised Item qtys. 104-6009, 247-6041, 310-6009, 316-6015, 316-6432, 341-6008; deleted Item 432-6001.

Sh. 19-deleted note 14 and renumbered.

Sh. 20-under Restrictions deleted note 1 and 3 and renumbered; under Phase II revised note 6.

Sh. 22 and 23-added station, offset information to temporary pavement, and added cross slope and pavement structure to detour pavement call out.

Sh. 24 and 25-added begin and end sawcut line station, offset information. and added portable traffic barrier and symbol A in a circle.

Sh. 26 and 27-added station, offset information to temporary pavement, and added cross slope and pavement structure to detour pavement call out.

Sh. 29 and 30-added begin and end sawcut line station, offset information. and added portable traffic barrier and symbol A in a circle.

Sh. 44-revised from Reusable column (wide) to Sacrificial column (narrow).

Sh. 63 and 64-revised notes and quantities.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	6002		PREPARING ROW DOLLARS and CENTS	STA	12.600	1
	104	6009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	1,320.000	2
	105	6013		REMOVING STAB BASE & ASPH PAV (9") DOLLARS and CENTS	SY	3,225.000	3
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	3,913.000	4
	132	6006		EMBANKMENT (FINAL)(DENS CONT)(TY C) DOLLARS and CENTS	CY	3,913.000	5
	160	6003		FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS	SY	32,555.000	6
	164	6001		BROADCAST SEED (PERM) (RURAL) (SANDY) DOLLARS and CENTS	SY	32,554.000	7
	164	6009		BROADCAST SEED (TEMP) (WARM) DOLLARS and CENTS	SY	16,277.000	8
	164	6011		BROADCAST SEED (TEMP) (COOL) DOLLARS and CENTS	SY	16,277.000	9
	216	6001		PROOF ROLLING DOLLARS and CENTS	HR	40.000	10
	247	6041		FL BS (CMP IN PLC)(TYA GR1-2)(FNAL POS) DOLLARS and CENTS	CY	1,467.100	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	310	6009		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	1,057.890	12
	316	6015		ASPH (AC-15P) DOLLARS and CENTS	GAL	1,875.100	13
	316	6432		AGGR (TY-PD GR-3 OR TY-PD GR-3S)(SAC-B) DOLLARS and CENTS	CY	140.790	14
	341	6008		D-GR HMA TY-B PG64-22 DOLLARS and CENTS	TON	1,976.520	15
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	94.000	16
	403	6001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	352.000	17
	416	6003		DRILL SHAFT (30 IN) DOLLARS and CENTS	LF	1,330.000	18
	420	6013		CL C CONC (ABUT) DOLLARS and CENTS	CY	70.500	19
	420	6029		CL C CONC (CAP) DOLLARS and CENTS	CY	61.600	20
	420	6037		CL C CONC (COLUMN) DOLLARS and CENTS	CY	41.800	21
	422	6007		REINF CONC SLAB (SLAB BEAM) DOLLARS and CENTS	SF	11,550.000	22
	422	6015		APPROACH SLAB DOLLARS and CENTS	CY	162.000	23

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	425	6011		PRESTR CONC SLAB BEAM (4SB15) DOLLARS and CENTS	LF	868.000	24
	425	6012		PRESTR CONC SLAB BEAM (5SB15) DOLLARS and CENTS	LF	1,519.000	25
	432	6025		RIRRAP (STONE COMMON)(DRY)(15 IN) DOLLARS and CENTS	CY	878.000	26
	432	6044		RIPRAP (CONC)(FLUME) DOLLARS and CENTS	CY	6.600	27
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	68.000	28
	450	6016		RAIL (TY T552) DOLLARS and CENTS	LF	492.000	29
	454	6004		ARMOR JOINT (SEALED) DOLLARS and CENTS	LF	194.000	30
	459	6001		GABIONS (GALV) DOLLARS and CENTS	CY	8.000	31
	496	6009		REMOV STR (BRIDGE 0 - 99 FT LENGTH) DOLLARS and CENTS	EA	1.000	32
	496	6010		REMOV STR (BRIDGE 100 - 499 FT LENGTH) DOLLARS and CENTS	EA	1.000	33
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	34
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	13.000	35

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	506	6002	003	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	375.000	36
	506	6011	003	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	375.000	37
	506	6020	003	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	624.000	38
	506	6024	003	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	624.000	39
	506	6030	003	BACKHOE WORK (EROSION & SEDMT CONT) DOLLARS and CENTS	HR	40.000	40
	506	6038	003	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	2,610.000	41
	506	6039	003	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	2,610.000	42
	506	6040	003	BIODEG EROSN CONT LOGS (INSTL) (8") DOLLARS and CENTS	LF	1,500.000	43
	506	6043	003	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	1,500.000	44
	508	6001		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	1,184.000	45
	510	6003		ONE-WAY TRAF CONT (PORT TRAF SIG) DOLLARS and CENTS	MO	13.000	46
	512	6072		PTB (FRN&INSTL)(SGL SLP)(TY 1) OR (STL) DOLLARS and CENTS	LF	2,910.000	47

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	512	6074		PTB (MOVE)(SGL SLP)(TY 1) OR (STL) DOLLARS and CENTS	LF	2,340.000	48
	512	6076		PTB (REMOVE)(SGL SLP)(TY 1) OR (STL) DOLLARS and CENTS	LF	2,910.000	49
	540	6001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	800.000	50
	540	6006		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	8.000	51
	542	6001		REMOVE METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	1,600.000	52
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	9.000	53
	544	6003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	9.000	54
	545	6001		CRASH CUSH ATTEN (INSTL) DOLLARS and CENTS	EA	8.000	55
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	4.000	56
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	8.000	57
	617	6002		TEMP RD IL (RD IL ASM) DOLLARS and CENTS	MO	13.000	58
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	4.000	59

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	4.000	60
	658	6008		INSTL DEL ASSM (D-SW)SZ 1(FLX)GF2(BI) DOLLARS and CENTS	EA	24.000	61
	658	6014		INSTL DEL ASSM (D-SW)SZ (BRF)CTB (BI) DOLLARS and CENTS	EA	12.000	62
	658	6060		REMOVE DELIN & OBJECT MARKER ASSMS DOLLARS and CENTS	EA	4.000	63
	662	6063		WK ZN PAV MRK REMOV (W)4"(SLD) DOLLARS and CENTS	LF	5,708.000	64
	662	6075		WK ZN PAV MRK REMOV (W)24"(SLD) DOLLARS and CENTS	LF	48.000	65
	662	6095		WK ZN PAV MRK REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	19,200.000	66
	666	6048		REFL PAV MRK TY I (W)24"(SLD)(100MIL) DOLLARS and CENTS	LF	490.000	67
	666	6170		REFL PAV MRK TY II (W) 4" (SLD) DOLLARS and CENTS	LF	3,750.000	68
	666	6182		REFL PAV MRK TY II (W) 24" (SLD) DOLLARS and CENTS	LF	490.000	69
	666	6207		REFL PAV MRK TY II (Y) 4" (SLD) DOLLARS and CENTS	LF	2,500.000	70
	666	6303		RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	3,750.000	71

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6315		RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	2,500.000	72
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	507.000	73
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	4,100.000	74
	5000	6001		GEOGRID REINFORCE EMBANKMENTS (TY A) DOLLARS and CENTS	SY	5,289.440	75
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	4.000	76

GENERAL NOTES:

“Unless otherwise approved by the Engineer, a tack coat will be placed in accordance to Section 340.2.5 “Tack Coat.” A non-tracking tack will be used. The type of tack coat must be approved by the Engineer. This work will not be paid for directly but will be subsidiary to the pertinent bid item(s).

Tack every intermediate layer, unless otherwise directed. Apply it through a distributor spray bar in accordance with Article 316.3 “Equipment”.

Item 2 - Instructions to Bidders

It is recommended that prospective bidders examine the specified work locations with the Engineer to view the nature of the work, the need for close coordination with the various utilities, traffic control considerations, and other factors influencing the prosecution of the work.

Item 5 - Control of the Work

The Contractor shall maintain and preserve the integrity of all “existing survey markers” by avoiding the disturbance of such markers; which include all control points (horizontal and/or vertical), stakes, marks, and right-of-way markers. The Department will repair all Contractor disturbed control points, stakes, marks, and right-of-way markers. The cost for any and all repairs to the “existing survey markers” will be deducted from money due or to become due to the Contractor.

The responsibility for the construction surveying on this contract will be in accordance with Article 5.9.1, “Method A”.

Prior to contract letting, bidders may obtain a free computer diskette or a computerized transfer of files (from the Engineer’s office) that contains the earthwork information. If copies of the actual cross-sections in addition to, or instead of, the diskette are requested, they will be available at the Engineers office for borrowing by copying companies for the purpose of making copies for the bidder at the bidder’s expense.

Prior to construction must call 811 to verify any utilities located within project limits. Contractor will also coordinate with utility owners listed below for any adjustments needed to sanitary sewer manholes, water valves, gas valve, telecommunication, television manhole located within project limits. The utility company is responsible for any adjustment when necessary. The work should be performed in a manner as to not delay construction contractor work activity.

Contractor will make necessary arrangements with the utility owner(s) when utility adjustments are required, as a result of construction activities.

<u>Utility Owner</u>	<u>Phone Number</u>	<u>City/County</u>
Medina Electric Cooperative, Inc.	(800) 831-5444	Bruni/Webb
Enterprise Products Operating, LLC	(361) 227-6741	

Item 6 - Control of Materials

Contact the project engineer to request material a minimum of one work day prior to pick up. Load material with contract personnel. Store material in a safe location off TxDOT property or Right of Way, unless otherwise approved. Use material furnished by TxDOT only on the TxDOT project(s) intended. Return any unused material as soon as possible.

Item 7 - Legal Relations and Responsibilities

Jurisdictional Waters of the United States and Project Specific Locations (PSL) Coordination - This project requires permit(s) with environmental resource agencies. There is a high probability that environmentally sensitive areas will be encountered on contractor designated project specific locations (PSLS) for the project (including but not limited to haul roads, equipment staging areas, parking areas, etc.).

Requirements for Work within Jurisdictional Waters of the United States:

The department has been authorized to perform work within designated areas of the project under U.S. Army Corps of Engineers (USACE) nationwide permit (NWP) #14 and/or #3a and/or #3b.

The contractor will not initiate activities in a project specific location (PSL) associated with a U.S. Army Corps of Engineers (USACE) permit area (i.e. an area where the USACE has jurisdiction) that has not been previously evaluated by the USACE as part of the permitting for this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here includes materials delivered to or from the PSL. The permit area includes all waters of the U.S. and their associated wetlands affected by activities associated with this project. Special restrictions may be required for such work in these USACE jurisdictional areas. The contractor will be responsible for any and all consultations with the USACE regarding activities, including PSLs, which have not been previously evaluated by the USACE. The Contractor will provide the department with a copy of all consultation(s) or approval(s) from the USACE prior to initiating activities.

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The contractor may proceed with activities in PSLs that do not affect a USACE permit area if a self determination has been made that the PSL is non-jurisdictional or proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. The contractor is solely responsible for documenting any determination(s) that their activities do not affect a USACE permit area. The contractor will maintain copies of their determination(s) for review by the department and/or any regulatory agency.

The disturbed area for all project locations in the Contract, and the Contractor project specific locations (PSLs) within 1 mile of the project limits for the Contract, will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, the Contractor shall provide a copy of the Contractor Notice of Intent (NOI) for the PSLs to the Engineer and to the local government operating a municipal separate storm sewer system (MS4) if applicable. If the total area of project disturbed areas and PSLs total between 1-acre but less than 5-acres, the Contractor shall post the appropriate Contractor Construction Site Notice for all Contractor PSLs to be in compliance with TCEQ storm water regulations.

In order to expedite the approval process for PSLs or to eliminate or minimize potential impacts to project progress, initiate coordination efforts with the U.S.A.C.E. within 30 days from the date of "authorization to begin work" for all PSLs that are in areas where the USACE has jurisdiction (i.e. USACE permit areas). If this is not done, the contractor waives the right to request any contract time considerations if project progress is impacted and PSL'S approval is still pending.

Requests submitted to the area engineer will be evaluated on this basis, and will require documentation showing substantial early coordination efforts to expedite the approval process as herein stated. The request will include a detailed chronological summary status with dates of coordination activities with the resource agencies, including those occurring after the initial coordination, to be reviewed and confirmed by the district's environmental section.

For PSLs that fall within USACE permit areas, the Contractor must document and coordinate with the USACE, if required, before any excavation hauled from or embankment hauled into a USACE permit area by either (1) or (2) below.

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1. Restricted Use of Materials for Previously Evaluated Permit Areas. The Contractor will document both the project specific location (PSL) and their authorization and the Contractor will maintain copies for review by the Department and/or any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project, then:
 - a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110 is used for permanent or temporary fill (Item 132, Embankment) within a USACE permit area may be restricted;
 - b. Suitable embankment (Item 132) from within the USACE permit area is used as fill within a USACE evaluated area may be restricted; and,
 - c. Unsuitable excavation or excess excavation ["Waste"] (Item 110) that is disposed of at an approved location within a USACE evaluated area may be restricted.

2. Contractor Materials from Areas Other than Previously Evaluated Areas. The Contractor will provide the Department with a copy of all USACE coordination or approvals before initiating any activities for an area within the project limits that has not been evaluated by the USACE or for any off right-of-way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites, including:
 - a. Item 132, Embankment, used for temporary or permanent fill within a USACE permit area; and,
 - b. Unsuitable excavation or excess excavation ["Waste"] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

Storm Water Regulations Requirements:

The Contractor shall be responsible for (off ROW) PSLs applicable to the TCEQ Construction General Permit (CGP) requirements and will notify the Engineer of the disturbed acreage within one (1) mile of the project limits. The Contractor shall obtain any required authorization form the TCEQ for any Contractor PSLs for construction support activities on or off ROW.

The total area disturbed for this project is 8.28 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW.

When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, the Contractor shall provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the local government that operates a municipal separate storm sewer system (MS4), if applicable.

Item 8 - Prosecution and Progress

The time charges for substantial completion of the project shall begin when time charges begin for this project.

The proposed sequence of construction is based on the full bridge replacement being completed and open to traffic at a particular site prior to advancing to the next site. The proposed sequence begins with Los Olmos Creek site, followed by San Casimiro Creek. The contractor may re-arrange the sequence of construction subjected to the Engineers approval.

The contractor may propose a sequence of construction where two sites are advanced concurrently subjected to the Engineer's approval and at no additional cost to the project.

In order to work on two-sites concurrently, the contractor shall demonstrate that he can maintain traffic through the project sites in an efficient and safe manner.

The time charges for Phase I shall begin when traffic is moved to the lane arrangement shown in the traffic control plans for this phase.

The time changes for phase II shall begin upon completion of the previous phase.

Item 9 - Measurement and Payment

Coordinate and provide off-duty law enforcement officers with officially marked vehicles (if patrol cruisers are available from the enforcement agency involved) during the following operations: transitioning to a new sequence of construction, after temporary illumination installation (San Casimiro Creek only) between sun down and 10 pm for two weeks, and lane closures or as directed by the Engineer For payment through TxDOT state force account method, complete the weekly tracking forms provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided.

Submit Material on hand (MOH) payment requests at least five (5) working days prior to the end of the month for payment on that month's estimate. For out of town MOH submit requests at least ten (10) working days prior to the end of the month.

Item 100 - Preparing Right of Way

Burning of brush will not be permitted.

Do not begin any clearing operations until the trees and areas of vegetation that should not be removed or disturbed by construction activities have been identified. To ensure that these areas are not disturbed, place protection fencing as shown in the plans or as directed/approved by the Engineer.

All right of way clearing operations will be coordinated with the project's SW3P and as directed/approved by the Engineer.

For SH 44, prepare the right of way from STA 12+32.69 to STA 18+46.92 (Los Olmos Creek), STA 22+31.44 to STA 28+68.08 (San Casimiro Creek). Remove and dispose of all obstructions shown and not specifically shown in the plans.

Prune trees and shrubs as directed. Use accepted pruning practices in accordance with Item 192 and as directed by the National Arborist Association. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent items.

Item 105 - Removing Treated and Untreated Base and Asphalt Pavement

Asphalt pavement and Base material to be removed under this item will remain the property of the Contractor.

Item 132 - Embankment

Field compact to 95% dry density.

For fill sections from embankment finished grade line and below, to a depth of 4 feet, Plasticity Index (PI) limit is: $4 \leq PI \leq 15$.

For all other fill sections, Plasticity Index (PI) limit is less than or equal to 30.

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Item 164 - Seeding for Erosion Control

Drill seeding will be used for this project. Refer to the Laredo District Standard Revegetation notes and specifications for additional information.

Item 166 - Fertilizer

Fertilize all areas of project to be seeded or sodded. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent items.

Item 247 - Flexible Base

A pre-placement meeting must be conducted at least 48 hrs prior to flex base placing operations.

This flexible base will need to be limestone aggregate material.

If the flexible base comes from a stockpile, test the stockpile before delivery to the project. The Contractor's attention is called to the fact that the preliminary test will require approximately 30 days and it is the Contractor's responsibility to advise the Engineer of the location of the flexible base source sufficiently in advance to avoid delays. Blade the side slopes to remove all grass from the area of construction before placing flexible base on that portion of the roadway to be widened, level-up, seal coat, or HMAC overlay. Blade the sod back onto the side slopes after the proposed items of work have been completed. Consider subsidiary to pertinent Items.

A minimum Plasticity Index (PI) of 3 is required for (TY A GR 1-2) material.

Item 310 - Prime Coat

Use MC-30 at rate of 0.20 gallons per square yard or as directed.

Item 316 – Seal Coat

Allow a minimum 24 hour curing period between surface events (Emulsion to asphaltic surfaces, between surface treatments and/or asphaltic pavement), or as directed in writing by the Engineer.

Addition of baghouse fines will not be permitted in the production of pre-coated material.

County: Webb

Control: 0237-03-030, etc.

Highway: SH 44

The usual open season for application of asphalt is from: April 1st to September 30th, unless otherwise approved in writing by the Engineer. The late start date for the project is August 8, 2016 to coincide with the end of the asphalt season. The minimum temperature requirements should be followed for the application of asphalt outside these dates.

Before starting work, provide a sequence of work and estimated progress schedule meeting the requirements of Section 8.5.2, "Progress Schedule."

Failure to complete work within the seal coat season established by the plans will result in liquidated damages as described in Section 8.6, "Failure to Complete Work on Time." This includes any surface treatment work carried over to the next year.

In addition to other asphalt distributor requirements, the asphalt distributor shall be capable of providing a transversely varied asphalt rate. The Contractor shall demonstrate that the distributor can apply an asphalt rate outside the wheel path locations between 22 and 32 percent higher than the asphalt rate being applied in the wheel paths. The contractor's calibration of the distributor will include verification of this capability and a description of the spray bar(s) and nozzles to be used. The percentage difference in asphalt rate provided by each tested spray bar and nozzle arrangement shall be provided to the Engineer. The Engineer will select the pavements where transversely varied asphalt rate is to be provided and will provide this information at the pre-construction meeting.

The estimated application rate noted in the plans is for locations outside the wheel paths and is for estimation purposes only.

Use Asphalt AC-15P at rate of 0.37 gallons per square yard.

Item 320 – Equipment for Hot Mix Asphalt Materials

For staged construction, all longitudinal ACP joints shall be constructed with a 3:1 to 6:1 taper. For placement of 2 inches or more, the device will provide a maximum ½ inch vertical edge. Outside edges (next to the grass/earth) will also have a taper or will be backfilled the same day.

Final Surface course: all longitudinal ACP joints for the final Hot Mix surface course shall be in widths equal to travel lane widths so that all final course ACP joints will match the proposed lane striping (pavement markings), unless otherwise directed by the engineer.

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Item 341 - Dense-Graded Hot-Mix Asphalt

HMACP TY	Application Rate	PG Binder	Lab Density
A*	120 #/SY/IN	70 -22	96.5%
B*	120 /SY/IN	70 -22	96.5%
C*	115 #/SY/IN	70 -22	96.5%
D*	115 #/SY/IN	70 -22	96.5%

* If mix has RAP, RAS, or both, the required lab density will be 97%.

In addition to the tack coat materials specified in these standard specifications, MS-2 or MS-1 may be used.

Use the point of sampling for tests, test method TEX-217-F (part I and part II), for the coarse aggregate stockpile when the dryer-drum mixing plant is used. The point of sampling when the batch plant is used will be at the hot bins.

Refer to item 585 for ride quality requirements.

The use of RAP or RAS will not be allowed on the final riding surface.

Item 400 – Excavation and Backfill for Structures

Compact each layer to meet the density and consolidation of the adjacent undisturbed material.

Water ponding consist of jetting operations using 1 or 2 jets as determined and approved from results of trial operations.

Item 420 - Concrete Substructures

Sulfate resistant concrete shall be used in all situations for concrete structures in contact with the natural ground.

Set a Department-furnished aluminum disk on all bridge abutments as directed. The work performed will not be measured or paid directly, but will be subsidiary to pertinent items.

Promptly apply an ordinary surface finish to all concrete surfaces once meeting curing requirements.

The following elements are Plans Quantity elements: Abutment and interior bents

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Item 421 - Hydraulic Cement Concrete

Sulfate resistant cement concrete shall be used in all situations for structural elements in contact with the natural ground. These includes, but is not limited to, all reinforced concrete pipe, concrete box culverts, drill shafts, bridge columns, bridge abutments, wingwalls, approach slabs, inlets, manholes, junction boxes, ground boxes and all concrete riprap.

Air entrainment is not required. If concrete is supplied with air entrainment, the concrete must adhere to the requirements of item 421.4.2.4.

Item 427 - Surface Finishes for Concrete

Provide a rub finish for Surface Area II unless otherwise directed. The estimated areas are noted below and are provided for contractor's information only:

Los Olmos Creek Bridge

Wingwalls:	110 SF
Exterior Slab Beam & Slab:	333 SF
<u>T552 Railings:</u>	<u>598 SF</u>
Total	1041 SF

San Casimiro Creek Bridge

Wingwalls:	129 SF
Exterior Slab Beam & Slab:	400 SF
<u>T552 Railings:</u>	<u>715 SF</u>
Total	1244 SF

Item 432 - Riprap

Reinforce concrete riprap with 4 x 4 – W2.9 x W2.9 welded wire fabric or with No. 3 reinforcing bars spaced at a maximum of 12 inch in each direction.

Item 496 - Removing Structures

Provide for approval a method of removal to prevent any materials from falling into the water or traffic. The method used and work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

The contractors shall protect and exercise care not to damage the existing gabions and gabions mattresses that are to remain. Repair any damage as soon

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as possible. Remove and replace at the Contractor's expense any damage that cannot be repaired to the satisfaction of the Engineer.

Item 500 - Mobilization

"Materials-on-Hand" payments will not be considered in determining percentages used to compute mobilization payments.

Item 502 - Barricades, Signs, and Traffic Handling

Designate, as the Contractor Responsible Person (CRP), an English speaking employee on-call nights and weekends (or any other time that work is not in progress) with a local address and telephone number for maintenance of signs and barricades. This employee will be located within one (1) hour of traveling time to the project site. Notify the Engineer in writing of the name, address and telephone number of this employee. Furnish this information to local law enforcement officials.

The time frame for the Contractor to provide properly maintained traffic control devices before they are considered to be in non-compliance with this Item, is 48 hours regardless of the days of the week involved after notification is done in writing by the Engineer.

When advanced warning flashing arrow panel(s) is/are specified, maintain one standby unit in good condition at the job site ready for immediate use is required.

Ensure equipment not in use, stockpile aggregate, and other working materials are:

- A minimum of 30 feet from the edge of the travel lane;
- Do not obstruct traffic or sight distance;
- Do not interfere with the access from abutting property; or
- Do not interfere with roadway drainage.

Erect signs in locations not obstructing the traveling public's view of the normal roadway signing or necessary sight distance at intersections and curves.

During the holiday time frame of December 21st through January 1st, every effort should be taken to ensure that all travel lanes remain open where possible.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the

project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Item 504 - Field Office and Laboratory

Provide a Type D Structure. Ensure the field lab has an office for TxDOT use along with a lockable file cabinet, desk, and chair. Contractor must have at least two designated parking spaces for TxDOT field lab personnel vehicles.

Contractor is responsible to transport to and from the field lab TxDOT owned testing equipment required for hotmix operations. Contractor will pick up, deliver, install, and set up TxDOT owned equipment required in the field lab. TxDOT owned equipment required in the field lab will be picked up at LRD DST LAB, or as determined by the LRD DST LAB supervisor.

Pick up and deliver TxDOT owned equipment under the supervision of a TxDOT lab technician. A TxDOT lab technician will verify the installation and set-up of the equipment at least 48 hrs prior to beginning of hotmix operations (trial batch included).

All equipment will be returned by the contractor in the same manner and location as it was picked up. Contractor is responsible for any damages incurred to TxDOT equipment.

Item 506 - Temporary Erosion, Sedimentation, and Environmental Controls

Designate in writing a Contractor Responsible Person (CRP) for implementing, maintaining, and reviewing environmental requirements.

Item 512 - Portable Traffic Barrier

Do not use different types of Portable Traffic Barriers in a single continuous installation.

Replace any traffic barrier which, in the opinion of the engineer, is damaged to the extent that it is no longer serviceable.

Item 544 – Guardrail End Treatment

Drill an 18-inch pilot hole for post embedment.

The method of placing steel tubes in drilled holes is not permitted.

Item 545 - Crash Cushion Attenuators

Crash Cushion Attenuators to be furnished and retained by the contractors.

Item 585 - Ride Quality for Pavement Surfaces

Ride quality will be waived.

Item 617 – Temporary Roadway Illumination

Payment for all treated timber poles required under item 627 will be considered subsidiary to this item.

Item 628 - Electrical Services

All traffic signal electrical service pole(s) for this project will be as shown on the plans.

Consider any and all costs associated with the installation and connection of electrical services to the electrical utility company subsidiary to bid item 628 "Electrical Services." This includes conduit, conduit fittings, and electrical conductors.

Ground all electrical service poles in accordance with the latest edition of the National Electrical Code (NEC) and TXDOT Standards. Include the cost of such grounding in the unit price for this bid item.

Provide breakaway electrical connectors for breakaway poles. Use BUSSMAN HEBW, LITTLEFUSE LEB, FERRAZ-SHAWMUT FEB, or equal on ungrounded conductors. For grounded conductors, use BUSSMAN HET, LITTLEFUSE LET, FERRAZ-SHAWMUT FEBN, or equal. These breakaway connectors have a white colored marking and a permanently installed solid neutral. See the latest RID (2) standard for additional details.

County: Webb

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Item 636 - Signs

Salvage and deliver all aluminum sign faces to the local TxDOT maintenance office.

Item 644 - Small Roadside Sign Assemblies

Salvage and deliver all aluminum sign faces to the local TxDOT maintenance office.

Item 6001 - Portable Changeable Message Sign

Provide four (4) electronic portable changeable message signs as required by the Engineer. Provide backups and keep operational and available on the jobsite at all times during traffic control operations. The electronic portable changeable message signs will be made available for utilization for the entire duration of the project, including all alternative locations.

PCMS to be placed at 2 miles west and east of Los Olmos Creek and San Casimiro Creek Bridges. PCMS to state, "BRIDGE WORK "X" MILES AHEAD EXPECT DELAYS" or as directed by the Engineer.

SPECIFICATION DATA
BASIS OF ESTIMATE

Item	Description	Rate
316	ASPH (AC-15P)	0.37 GAL/SY
316	AGGR (TY-PD GR-3 OR TY-PD GR-3S) (SAC-B)	110 SY/CY
341	D-GR HMA TY-B, PG-64-22 SAC B	120 (LB/SY/IN)
310	PRIME COAT MC-30	0.2 GAL/SY
247	FL BS (CMP IN PLC) (TY A GR 1- 2) (FINAL POS)	135 LB/CF

COMPACTION REQUIREMENTS DENSITY

Item	Description	Density
132	Embankment	95% (min)

CONTROL : 0237-03-030, ETC
PROJECT : BR 1602(506)
HIGHWAY : SH 44
COUNTY : WEBB

TEXAS DEPARTMENT OF TRANSPORTATION

GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF
----- TRANSPORTATION NOVEMBER 1, 2014.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (100)
ITEM 104 REMOVING CONCRETE
ITEM 105 REMOVING TREATED AND UNTREATED BASE AND ASPHALT PAVEMENT
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (100) (160) (204) (210) (216) (260) (400)
ITEM 160 TOPSOIL (168)
ITEM 164 SEEDING FOR EROSION CONTROL (162) (166) (168)
ITEM 216 PROOF ROLLING (210)
ITEM 247 FLEXIBLE BASE (105) (204) (210) (216) (520)
ITEM 310 PRIME COAT (300) (316)
ITEM 316 SEAL COAT (210) (300) (302) (340) (520)
ITEM 341 DENSE-GRADED HOT-MIX ASPHALT (300) (301) (320) (520) (585)
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (110) (132) (401)
(402) (403) (416) (420) (421) (423)
ITEM 403 TEMPORARY SPECIAL SHORING (410) (411) (423)
ITEM 416 DRILLED SHAFT FOUNDATIONS (405) (420) (421) (423) (440) (448)
ITEM 420 CONCRETE SUBSTRUCTURES (400) (404) (421) (422) (426) (427)
(440) (441) (448)
ITEM 422 CONCRETE SUPERSTRUCTURES (420) (421) (424) (438) (440) (448)
(454) (780)
ITEM 425 PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS (409)
(420) (421) (424) (426) (427) (434) (440) (442) (445)
ITEM 432 RIPRAP (247) (420) (421) (431) (440)
ITEM 450 RAILING (420) (421) (422) (424) (440) (441) (442) (445) (446)
(448) (540)
ITEM 454 BRIDGE EXPANSION JOINTS (429) (442) (785)
ITEM 459 GABIONS AND GABION MATTRESSES
ITEM 496 REMOVING STRUCTURES
ITEM 500 MOBILIZATION

ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
 ITEM 504 FIELD OFFICE AND LABORATORY
 ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL
 CONTROLS (161) (432) (556)
 ITEM 508 CONSTRUCTING DETOURS
 ITEM 510 ONE-WAY TRAFFIC CONTROL (502)
 ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (420) (421) (424) (440)
 (442)
 ITEM 540 METAL BEAM GUARD FENCE (421) (441) (445) (529)
 ITEM 542 REMOVING METAL BEAM GUARD FENCE
 ITEM 544 GUARDRAIL END TREATMENTS
 ITEM 545 CRASH CUSHION ATTENUATORS (421)
 ITEM 617 TEMPORARY ROADWAY ILLUMINATION (416) (610) (613) (614) (618)
 (620) (621) (622) (624) (627) (628)
 ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421) (440) (441) (442) (445)
 (636) (643) (656)
 ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
 ITEM 662 WORK ZONE PAVEMENT MARKINGS (666) (668) (672) (677)
 ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS (316) (502) (662) (677)
 (678) (6040)
 ITEM 672 RAISED PAVEMENT MARKERS (677) (678)
 ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)
 (302) (316)

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE
 ----- PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED
 HEREON WHEREVER IN CONFLICT THEREWITH.

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS
 (FORM FHWA 1273, MAY, 2012)

WAGE RATES

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---001)
 SPECIAL PROVISION "NONDISCRIMINATION" (000---002)
 SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"
 (000---003)
 SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
 ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)
 SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
 CONSTRUCTION CONTRACT SPECIFICATIONS" (000---005)
 SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000---006)
 SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL AID
 CONTRACTS" (000---007)
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---010)
 SPECIAL PROVISION "CARGO PREFERENCE ACT REQUIREMENTS IN FEDERAL AID
 CONTRACTS" (000---241)
 SPECIAL PROVISION "CERTIFICATE OF INTERESTED PARTIES (FORM 1295)"
 (000---249)
 SPECIAL PROVISION TO ITEM 2 (002---004)
 SPECIAL PROVISION TO ITEM 6 (006---001)
 SPECIAL PROVISIONS TO ITEM 7 (007---001) (007---003) (007---004)
 SPECIAL PROVISION TO ITEM 300 (300---009)
 SPECIAL PROVISION TO ITEM 421 (421---002)

SPECIAL PROVISION TO ITEM 506 (506---003)

SPECIAL SPECIFICATIONS:

ITEM 5000 GEOGRID REINFORCEMENT FOR EMBANKMENTS
ITEM 6001 PORTABLE CHANGEABLE MESSAGE SIGN
ITEM 6040 MOBILE RETROREFLECTIVITY DATA COLLECTION FOR PAVEMENT
MARKINGS

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH
----- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER
PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-
LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL
PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-
CATIONS FOR THIS PROJECT.

Special Specification 6001

Portable Changeable Message Sign



1. DESCRIPTION

Furnish, operate, and maintain portable trailer mounted changeable message sign (PCMS) units.

2. MATERIALS

Furnish new or used material in accordance with the requirements of this Item and the details shown on the plans. Provide a self-contained PCMS unit with the following:

- Sign controller
- Changeable Message Sign
- Trailer
- Power source

Paint the exterior surfaces of the power supply housing, supports, trailer, and sign with Federal Orange No. 22246 or Federal Yellow No. 13538 of Federal Standard 595C, except paint the sign face assembly flat black.

2.1. **Sign Controller.** Provide a controller with permanent storage of a minimum of 75 pre-programmed messages. Provide an external input device for random programming and storage of a minimum of 75 additional messages. Provide a controller capable of displaying up to 3 messages sequentially. Provide a controller with adjustable display rates. Enclose sign controller equipment in a lockable enclosure.

2.2. **Changeable Message Sign.** Provide a sign capable of being elevated to at least 7 ft. above the roadway surface from the bottom of the sign. Provide a sign capable of being rotated 360° and secured against movement in any position.

Provide a sign with 3 separate lines of text and 8 characters per line minimum. Provide a minimum 18 in. character height. Provide a 5 × 7 character pixel matrix. Provide a message legibility distance of 600 ft. for nighttime conditions and 800 ft. for normal daylight conditions. Provide for manual and automatic dimming light sources.

The following are descriptions for 3 screen types of PCMS:

- **Character Modular Matrix.** This screen type comprises of character blocks.
- **Continuous Line Matrix.** This screen type uses proportionally spaced fonts for each line of text.
- **Full Matrix.** This screen type uses proportionally spaced fonts, varies the height of characters, and displays simple graphics on the entire sign.

2.3. **Trailer.** Provide a 2 wheel trailer with square top fenders, 4 leveling jacks, and trailer lights. Do not exceed an overall trailer width of 96 in. Shock mount the electronics and sign assembly.

2.4. **Power Source.** Provide a diesel generator, solar powered power source, or both. Provide a backup power source as necessary.

2.5. **Cellular Telephone.** When shown on the plans, provide a cellular telephone connection to communicate with the PCMS unit remotely.

3. CONSTRUCTION

Place or relocate PCMS units as shown on the plans or as directed. The plans will show the number of PCMS units needed, for how many days, and for which construction phases.

Maintain the PCMS units in good working condition. Repair damaged or malfunctioning PCMS units as soon as possible. PCMS units will remain the property of the Contractor.

4. MEASUREMENT

This Item will be measured by each PCMS or by the day used. All PCMS units must be set up on a work area and operational before a calendar day can be considered measurable. When measurement by the day is specified, a day will be measured for each PCMS set up and operational on the worksite.

5. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Portable Changeable Message Sign." This price is full compensation for PCMS units; set up; relocating; removing; replacement parts; batteries (when required); fuel, oil, and oil filters (when required); cellular telephone charges (when required); software; and equipment, materials, tools, labor, and incidentals.

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