

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 5/05/2006

Control	2025-01-011, ETC.
Project	IBR 2003(720), ETC.
Highway	FM 1684
County	REFUGIO

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 by entering the date, which appears at the top of this letter on the Addendum Acknowledgement Form, contained in your bid proposal.

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: IBR 2003 (720)

CONTROL: 2025-01-011

COUNTY: REFUGIO

LETTING: 05/09/2006

REFERENCE NO: 0505

PROPOSAL ADDENDUMS

PROPOSAL COVER

X BID INSERTS (SH. NO.: 3 OF 5)

X GENERAL NOTES (SH. NO.: C)

X SPEC LIST (SH. NO.: 1-3 THRU 3-3)

X SPECIAL PROVISIONS:

ADDED: 496-009, 497-007

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: PLAN SHEETS:2, 6A-6G, 7, 44, 70A-70D

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

PROPOSAL:

BID SHEET 3-5:

ADDED SPL PRV 009 TO ITEM 496-009

ADDED BID ITEM 497-2001

GENERAL NOTES SHEET C:

ADDED NOTE FOR ITEM 6,496,497 TEXT SHIFTED FROM PAGE TO DUE TO NOTE
NOTE BEING ADDED.

SPEC LIST

PAGE 1-3 ADDED ITEM 497

PAGE 2-3 ADDED SPL PROVISIONS 496-009 & 497-007

PAGE 3-3 TEXT SHIFTED DUE TO ABOVE ADDITIONS

PLAN SHEETS

SHEET 2 (INDEX OF SHEETS) ADDED SHEETS 70A-70D.

SHEET 6A THRU 6G ADDED NOTE FOR ITEM 6,496,497. TEXT SHIFTED FROM
PAGE TO PAGE.

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET 7:
ADDED SPL PROVISION 009 TO BID ITEM 496
ADDED BID ITEM 497 2001

SHEET 44:
REVISED THIRD PARAGRAPH UNDER GENERAL NOTES, ON LOWER RIGHT HAND SIDE OF
PAGE

SHEET 70A THRU 70D ADDED

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	001	PREPARING ROW DOLLARS and CENTS	STA	14.700	1
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	1,565.000	2
	132	2008		EMBANKMENT (FINAL)(DENS CONT)(TY D) DOLLARS and CENTS	CY	375.000	3
	164	2023		CELL FBR MLCH SEED(PERM)(RURAL)(CLAY) DOLLARS and CENTS	SY	3,484.000	4
	164	2029		CELL FBR MLCH SEED(TEMP)(WARM) DOLLARS and CENTS	SY	3,484.000	5
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	14.900	6
	247	2041		FL BS (CMP IN PLC)(TY A GR 1)(FNAL POS) DOLLARS and CENTS	CY	1,198.000	7
	314	2001		EMULS ASPH (BS OR SUBGR TRT)(SS-1) DOLLARS and CENTS	GAL	1,390.000	8
	316	2220		AGGR(TY-PB GR-3S SAC-B) DOLLARS and CENTS	CY	50.400	9
	316	2222		AGGR(TY-PB GR-4S SAC-B) DOLLARS and CENTS	CY	37.800	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	316	2402		ASPH (AC-5, AC-10, CRS-2, OR HFRS-2) DOLLARS and CENTS	GAL	2,586.000	11
	334	2054		HMCL ACP TY-C SAC-B AC-1.5 DOLLARS and CENTS	TON	30.000	12
	400	2005		CEM STABIL BKFL DOLLARS and CENTS	CY	265.000	13
	409	2014		PRESTR CONC PIL (16 IN SQ)(HPC) DOLLARS and CENTS	LF	984.000	14
	420	2041	003	CL C CONC (ABUT)(HPC) DOLLARS and CENTS	CY	55.200	15
	422	2003		REINF CONC SLAB (HPC)(CL S) DOLLARS and CENTS	SF	3,520.000	16
	425	2002		PRESTR CONC BEAM (TY B) DOLLARS and CENTS	LF	298.350	17
	428	2001		CONC SURF TREAT (CLASS I) DOLLARS and CENTS	SY	366.000	18
	432	2002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	116.000	19
	432	2040		RIPRAP (MOW STRIP)(5 IN) DOLLARS and CENTS	CY	58.500	20
	450	2003		RAIL (TY T203) DOLLARS and CENTS	LF	156.000	21

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	450	2007		RAIL (TY T501) and DOLLARS CENTS	LF	132.000	22
	454	2005		ARMOR JOINT (WITH SEAL) and DOLLARS CENTS	LF	56.000	23
	496	2009	009	REMOV STR (BRIDGE 0-99 FT LENGTH) and DOLLARS CENTS	EA	2.000	24
	497	2001	007	SALV MATRL (CREDIT ITEM) and DOLLARS CENTS	LS	1.000	25
	500	2001	002	MOBILIZATION and DOLLARS CENTS	LS	1.000	26
	502	2001	022	BARRICADES, SIGNS AND TRAFFIC HAN- DLING and DOLLARS CENTS	MO	10.000	27
	506	2001		ROCK FILTER DAMS (INSTALL) (TY 1) and DOLLARS CENTS	LF	145.000	28
	506	2009		ROCK FILTER DAMS (REMOVE) and DOLLARS CENTS	LF	145.000	29
	506	2017		CONSTRUCTION EXITS (INSTALL) (TY 2) and DOLLARS CENTS	SY	320.000	30
	506	2019		CONSTRUCTION EXITS (REMOVE) and DOLLARS CENTS	SY	320.000	31

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	506	2034		TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	352.000	32
	540	2001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	450.000	33
	540	2011		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	8.000	34
	544	2005	001	GDRAIL END TRT(INST)(WOOD POST)(TY II) DOLLARS and CENTS	EA	8.000	35
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	4.000	36
	658	2241		INSTL DEL ASSM (D-SW)SZ 1(FLX)GF2(BI) DOLLARS and CENTS	EA	24.000	37
	658	2256		INSTL DEL ASSM (D-SW)SZ 2(WC) GND(BI) DOLLARS and CENTS	EA	5.000	38
	658	2259		INSTL DEL ASSM (D-SW)SZ (TYC)CTB(BI) DOLLARS and CENTS	EA	12.000	39
	658	2320		INSTL OM ASSM (OM-3L)(TWT)WS DOLLARS and CENTS	EA	4.000	40
	658	2324		INSTL OM ASSM (OM-3R)(TWT)WS DOLLARS and CENTS	EA	4.000	41
	672	2015		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	36.000	42

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	4160	2001		FIBER REINFORCED PLASTIC BEAMS DOLLARS and CENTS	LF	397.360	43
	6038	2001		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	DAY	240.000	44
	6110	2010		REF PAV MRK TY I (W)(4")(SLD)(100 MIL) DOLLARS and CENTS	LF	2,934.000	45
	6110	2057		REF PAV MRK TY I (Y)(4")(SLD)(100 MIL) DOLLARS and CENTS	LF	2,934.000	46

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GENERAL NOTES:

Prior to the contract letting, prospective bidders may request to view the earthwork design cross sections at the Sinton Area Office. Request for viewing should be made 24 hours in advance to the Sinton Area Engineer. Reproducible earthwork cross sections will be available for borrowing by the copying-service companies for the purpose of making copies for the prospective bidders, at the prospective bidder's expense. (24 hour advanced notice will be required). The cross section information will be in ASCII print format on computer diskette.

Upon request, the successful bidder will be furnished with one copy of the design cross-sections used to estimate earthwork quantities. This information will be in ASCII print format on a compact disk. If additional copies are needed they will be furnished at the Contractor's expense.

Unless otherwise approved by the Engineer, the Contractor will not be permitted to commence work on the roadway before sunrise and shall so arrange the work so that no machinery shall be on the road after sunset.

The Contractor shall provide for safe and convenient ingress and egress to abutting property, highway, public road and street crossings for all vehicles. The Contractor shall advise the Engineer in advance as to his proposed methods for accommodating traffic during construction at all locations and these methods shall be approved by the Engineer before any portion of an existing road or street is removed or disturbed.

At the end of each working day, the Contractor shall patch any existing open cuts in the roadway surface which will be open to traffic during non-working hours. This work will not be paid for directly but shall be considered subsidiary to various bid items.

The Contractor will take appropriate measures to protect all adjacent property from any damage. If any damage occurs, the Contractor will restore the damaged property to a condition equal to its existing condition. This work shall be done at the Contractor's own expense.

No person or tool will be permitted within 8 feet of high voltage electrical lines (600 volts or greater) unless arrangements have been made with the power company. No equipment will be permitted within 10 feet of high voltage electrical lines unless there are warnings posted and an insulated guard is attached to the boom or bucket. The Contractor shall notify the Engineer if there are any conflicts with high voltage electrical lines.

Any damage caused to the stream channel by construction activities will be repaired to original condition or as approved by the Engineer. This work shall be considered incidental to the various work items involved.

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Materials larger than 4 inches in size within the limits of the Right of Way and not incorporated in the finished roadway embankment shall be removed from the Right of Way and disposed of in a manner suitable to the Engineer at the entire expense of the Contractor.

Water required for curing base materials, maintenance of roadway and dust control shall not be paid for directly, but shall be considered subsidiary to the various Contract Items. Water shall conform to Item 204 except for measurement and payment.

The locations of utilities, either underground or overhead shown within the limits of the right-of-way are approximate only, and shall be verified by the Contractor before beginning construction. This work shall not be paid for directly, but will be considered subsidiary to the various bid items. Prior to beginning any excavation work in the area of existing utilities, the Contractor shall contact the utility companies for exact locations to prevent any damage or interference with present facilities. The Texas One Call System shall be notified at the following toll free number: (1-800-245-4545). This action however, shall in no way be interpreted as relieving the Contractor of their responsibility under the terms of the Contract as set out in the plans and specifications. The Contractor shall repair any damage caused by their operations, deemed the Contractors liability by the Engineer, at their own expense and shall restore facilities to service in a timely manner. All information concerning utility verification shall be provided to the Engineer.

In the event utility lines needing unforeseen adjustments are encountered, the Contractor shall prosecute the work in such a manner and sequence as to allow adjustments to be done by others. An extension of working time may be granted, if necessary in the opinion of the Engineer.

In those instances where fixed features require, the governing slopes for the project may be varied from between the limits and to the extent determined by the Engineer.

ITEM 5

Benchmark locations and elevations are shown on the plan and profile sheets. The Contractor will use construction surveying Method C on this project. Additionally, the Contractor will offset the proposed centerline before starting any surfacing and/or grading operations. The offset line will be at a distance such that it is not affected by construction activities. It will consist of a positive system of stakes and hubs at 100-foot intervals, or an alternative system as directed and/or approved by the Engineer. This offset line will be maintained throughout the project duration.

The Contractor shall be responsible for marking stations, every 100 feet, and maintaining such markings for the duration of the project. The Contractor will reestablish the

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roadway centerline for surface treatments and striping operation. No direct compensation will be allowed for this work; as such work is to be considered subsidiary to the various bid Items of the Contract.

ITEM 6

Inspection of work accomplished in concrete product plants normally will be handled as follows. Precast pipe will be inspected by TxDOT's Materials and Test Division. Any precast units that are cast in precasting yards where bridge components or pipe are being cast will be inspected by TxDOT's Materials and Test Division. Any precasting yards supplying precast units to the projects outside of the Corpus Christi District will be inspected by TxDOT's Material and Test Division. All other precast units will be inspected by the Area Engineer.

ITEMS 6, 496, & 497

The Department will obtain the services of an Environmental Specialty Contractor to remove the paint in any areas that the Construction Contractor is going to have to cut the steel beams in order to remove them.

ITEM 8

Working Days (Calendar Days) will be computed and charged in accordance with Article 8.3.A.1 Five-Day Workweek.

The Contractor will submit a proposed schedule of work using the Critical Path Method (Precedence Diagram Method), using Primavera Project Schedule Software or Sure-Trak Project Schedule Software. Monthly updates will be required and will be submitted within three (3) working days at the beginning of every month. The updates must include the daily production rates of all work done for the time period.

The Contractor's attention is brought to the fact that other contracted projects may be under construction concurrently within the same limits of this project. This includes utility work performed by the utility companies or their respective Contractors.

The Contractor will only be allowed to work on one location (Structure) at a time. The Contractor will only be allowed to close the roadway to thru traffic at one location (Structure Location) at a time.

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ITEM 9

The Contractor must submit material-on-hand payment requests at least three (3) working days prior to the end of the month for payment on that month's estimate. All requests shall be submitted through the prime Contractor.

ITEM 100

The Contractor shall not begin any clearing operations until the Engineer has established and defined the trees and areas of vegetation that should not be removed or disturbed by construction activities. To ensure that these areas are not disturbed, the Contractor will be required to place protection fencing as shown in the plans or as directed by the Engineer.

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

Any tree removal work shall be performed between November 1 through the end of February to avoid the migratory bird nesting season unless otherwise directed by the Engineer. Any tree trimming or removal work between March 1 through October 31 requires that a nesting bird survey be performed by a qualified environmental specialist prior to the work being performed. If nests are present, the Contractor shall not trim or remove the tree.

The removal and disposal of fence, wood/metal posts and wire shall be considered subsidiary to Item 100, "Prep R.O.W."

ITEM 110 & 132

Original cross section data used in estimating quantities for excavation and embankment were developed by field survey.

Prior to excavation and placement of embankment, the top soil (approx. 4-inch depth) within the areas to be disturbed will be bladed into a windrow outside the limits of the fill slope or as directed by the Engineer. After all grading has been completed, the top soil (approx 4-inch depth) will be spread over the disturbed areas that will not receive concrete riprap. This work will not be paid for directly, but will be considered subsidiary work to the various bid items.

The Contractor shall remove all excess embankment material at the completion of the project. Removal of embankment material, including loading, hauling and disposal shall not be paid for directly, but shall be considered subsidiary to Item 132. All embankment

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material removed shall become the property of the Contractor and shall be disposed of in an approved manner.

ITEM 164

Seeding limits shall conform to the details as shown in the plans and any other areas which are disturbed by the Contractor's operation shall be seeded as deemed necessary by the Engineer, at the Contractor's expense.

Warm season plant dates are January 15 through September 1. The pure live seed planted (lbs/ac) shall be as follows:

PERMANENT RURAL SEEDING MIXTURE

Jan 1- May 1

Seed	Rate (lbs/ac)
Green Sprangletop	0.3
Bermudagrass	1.80
Sideoats Grama (Haskell)	2.00
Little Bluestem	1.50
Plains Bristlegrass	1.00

TEMPORARY COOL SEASON SEEDING MIXTURE

Sept 1- Nov 30

Seed	Rate (lbs/ac)
Oats	72.0

TEMPORARY WARM SEASON SEEDING MIXTURE

May 1- Aug 30

Seed	Rate (lbs/ac)
Foxtail Millet	34.0

No seeds should be covered by more than 1/4 inch of topsoil. Seed may be rolled with a corrugated roller. No light disking will be permitted as a method to cover seed with soil.

The tacking agent for this item shall be a mixture of approximately 50 percent SS-1 and 50 percent water. Water for the tacking agent mixture will not be paid for directly, but shall be considered subsidiary to this Item. The rate of application shall be 0.10 gal/sy or as directed by the Engineer.

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The Contractor shall notify the Engineer in a timely manner of the unavailability of any of the seed mixture; in the event of unavailability of any of the seeding mixture, the Engineer shall modify the mixture to his satisfaction.

ITEM 166

The Contractor will furnish and apply fertilizer with NPK ratio of 16-8-8 at a rate of 100 pounds of nitrogen per acre. Include the cost of all labor, equipment and material required as subsidiary to the various bid items.

ITEM 168

Water all areas of project to be seeded.

The Contractor will water at a rate of 1/4-inch of water per acre of seeded area every week for three months, unless otherwise directed by the Engineer.

ITEM 247

Flexible base material shall come from a source approved by the Engineer. If the flexible base comes from a stockpile, the stockpile shall be tested before delivery on the road. The stockpile shall be built in lifts not to exceed 2 feet and in a manner as to obtain a minimum working face of not less than 10 feet and a maximum working face of not more than 20 feet. Final acceptance of flexible base material will be from tests made from windrow samples and/or the stockpile.

ITEM 300 & 302

When emulsions are used as the precoat material, the precoated aggregate shall be adequately dried to the satisfaction of the Engineer. It will be the responsibility of the Contractor/Producer to provide adequate drying and curing periods before the delivery of the aggregates. The Engineer reserves the right to reject any precoated aggregate which is improperly coated or otherwise unsatisfactory for use.

All of the coarse aggregates for roadway surfaces shall be a minimum class of "B" as published in the Aggregate Quality Monitoring Program Rated Source Quality Catalog.

If siliceous aggregates are used, a maximum flakiness index of 17 as determined by Test Method Tex-224-F shall apply.

If emulsion asphalt is used, the Engineer shall approve the pre-coat material for the aggregate.

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ITEM 314

Contractor will work the SS-1 asphalt material 2" to 3" into the flex base surface. The amount used will be within the percentile limits determined/approved by the Engineer and will not be less than 2 percent of the total mixture.

Emulsified asphalt material will be a mixture of approximately 5% (SS-1) and 95% water. Water for the emulsified asphalt will not be paid for directly, but will be considered subsidiary to Item 314. An application rate of 0.15 gal/sy will be used unless otherwise specified.

ITEM 316

Construction consists of a two (2) course surface treatment application. The asphalt material and aggregate for each course of surface treatment shall be applied at the rates approved by the Engineer. Asphalt material shall not be placed when general weather conditions, in the opinion of the Engineer, are not suitable.

For this project, the asphalt season for placement of asphalt surface courses shall be from March 15 through November 15, unless otherwise approved by the Engineer in writing.

Paper and other materials used for joints shall be picked up at the end of each work day.

Contractor will remove raised pavement markers, and this work will be considered subsidiary to Item 316.

Contractor will remove vegetation and blade pavement edges and this will be considered subsidiary to this Item.

The type and grade of asphalt to be used for the two course surface treatment shall be AC- 5, AC-10, CRS-2 or HFRS-2 as approved by the Engineer. The Engineer will decide which asphalt will be used as field conditions warrant. The estimated quantity shown for the asphalt bid items is based on an average of the estimated rates of application between AC and emulsion. If emulsified asphalt is used, the precoat material for the aggregate shall be approved by the Engineer.

Material rates shown are based on AC and may be adjusted by the Engineer depending on the material used, and the existing condition/type of the roadway surface. In the event emulsions are used, (if allowed) a minimum 24 hour curing period shall elapse before placing any subsequent asphalt courses. Because of the required curing period, the Contractor shall obtain approval from the Engineer before using emulsions.

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The two course surface treatment will not be placed on the bridge deck where the concrete slab is exposed at Hearsdale Slough Structure (CSJ 2025-01-012). The two course surface treatment will be placed on Structure No. 2 (CSJ 2025-01-011) prior to the placement of the HMAC Cold Laid Ty C material.

The Contractor will be required to set a string line for all surface treatment operations unless otherwise authorized by the Engineer.

The Contractor's attention is directed to the fact that all aggregates furnished are subject to testing after delivery to the job site.

The location of aggregate stockpiles shall be approved by the Engineer. The aggregate shall be free of excess surface moisture, as determined by the Engineer, before application.

The asphalt distributor will be equipped with a hand hose in working condition for use as directed by the Engineer.

The Contractor will be required to sweep and pick up excess aggregate from the roadway as directed by the Engineer.

ITEM 400

Material for cement stabilized backfill shall be a sandy material as approved by the Engineer. Cement stabilized backfill shall consist of 2 sacks of cement, 94 lb./bag, and 1 cubic yard of sandy material as approved by the Engineer.

ITEM 420

The Contractor will provide for the Department's use one (1) laptop computer system for concrete batch plant inspection and this will be subsidiary to the various bid Items.

The following software and hardware listed below or approved equal or better shall be provided:

Software:

Microsoft Windows XP Professional, Microsoft Office XP Professional or greater, Winfax Pro version 10.0 or greater, Winzip 9.0 or greater, Adobe Acrobat Reader 6.0 or greater, and McAfee Virus Scan 7.0 or greater to include updates for duration of project.

Hardware:

Laptop:

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Intel Pentium 4 processor or better (3.0 GHz minimum) with 533 MHz or 800 MHz front-side bus, one GB minimum of DDR RAM, 40 GB hard drive or greater with rpm speed of 5400 or greater, display of 15 inches or greater with maximum resolution of 1024 x 768 or greater, 64 MB or greater video/graphics card (can be shared RAM), touch pad mouse, built-in highspeed V.90/V.92 56 KB data/fax modem, built-in 10/100 base-t fastethernet interface, 1 USB 2.0 port, 1 external video port, 1 parallel port, 1 serial port, 1 external keyboard/mouse port, 1 PCI I/II/III PCMCIA slot, 1 1.44 MB floppy diskette drive(FDD), 1 DVD/CDRW combo drive.

Printer:

Portable/Mobile color – minimum 9 ppm black, minimum 8 ppm color, black resolution 1200 X 1200, color resolution 4800 X 1200 optimized color dpi, low ink indicator, print cancel button, print connectivity via parallel, USB, or infrared, print media capable of letter, printer must be able to run on lithium-ion battery or AC power supply, and 1 USB 2.0 rated 6 ft. cable.

The contractor shall deliver the specified software and hardware to be used by the Department prior to the commencement of any work on the project. The Contractor shall provide carrying cases for both the laptop and the printer. The Contractor shall purchase and provide to the Department updates to the software as required to remain compatible with TxDOT's currently used software. In the case of needed repairs for the software or hardware, the Contractor shall provide a backup computer system meeting the same Specifications within twenty-four (24) hours. At the completion of the project, the Contractor shall retain all hardware and software.

All abutment bent concrete shall be plan quantity measurements.

As soon as forms are removed from all concrete, an ordinary surface finish will be applied to the exposed concrete surfaces.

If membrane curing is used for curing concrete structures, only Type I-D/2 curing compound conforming to the requirements of Item 420 will be permitted.

Cast in place all dowels when possible. When not possible, Contractor will use an approved epoxy for placement of dowels.

The Contractor will furnish a cylinder-curing tank including a tank heater. The tank size will be as approved by the Area Engineer.

For this project, the concrete strength will be determined by 28-day compression testing by use of test method TEX-418-A, "Compressive Strength of Cylindrical Concrete Specimens". The 7-day job control strength will be determined in accordance with test

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method TEX-427-A, part III, cylindrical concrete specimens will be 4" diameter by 8" length.

The Engineer will cast and test all concrete cylinders. The Contractor will furnish all test molds and wheelbarrow. The test molds will be of disposable plastic type as approved by the Engineer. The Contractor will remove the test specimens from the molds and transport them to the proper curing location at the schedule designated by the Engineer. TxDOT will furnish the concrete testing machine to test the concrete cylinders.

When a 7-day job control test value is more than 10 percent below the required job control strength or when three (3) consecutive strength values fall below the required job control strength, an investigation of the test procedure, the quality of the materials, and batching operations will be performed by the Contractor and Engineer to determine the likely cause or causes of the problem. Immediate remedial action will be taken to correct the problem including redesign of the concrete mix when warranted.

For both structures on FM 1684 all class "B" concrete shall be considered miscellaneous concrete as defined in the guide schedule of sampling and testing. In the event test specimens fail strength requirements, the Contractor, with prior approval of the Engineer, shall take test cores at the Contractor's expense.

ITEM 432

The sealing option for the joint between the face of the abutment and riprap shall be Option C. This option is detailed on the standard sheet "Concrete Riprap and Shoulder Drains" (CRR).

Unless otherwise shown on the plans, concrete riprap will be 5 inches in depth and reinforced with #4 bars spaced 12 inches center to center.

All concrete riprap for this item shall be Class "B" concrete.

ITEM 442

All armor joints shall receive a protection system Type II prime coat according to Item 446. The appearance coating shall be a gray color. This will not be paid for directly but shall be considered subsidiary to this bid item.

ITEM 496

The existing bridge structures shall be dismantled and removed from the project site.

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All material shall become the property of the Contractor and shall be disposed of off the right-of-way at a site approved by the Engineer.

The Contractor shall make every attempt to prevent debris and rubble from falling into the stream during the removal of the bridge. If any debris or rubble should fall into the stream it shall be removed as soon as possible.

During final clean-up, the Contractor will be required to remove any foreign material that has accumulated at all bridge abutments and bent caps. The removal of foreign material shall be performed in a manner approved by the Engineer. All work and equipment involved in the removal of this material will be subsidiary to the various bid items of the Contract.

ITEM 500

“Materials on Hand” payments will not be considered in determining percentages used to compute payment for Item 500 “Mobilization.”

ITEM 502

The Contractor is responsible for implementing and maintaining the traffic control plan and will be responsible for furnishing all traffic control devices and flaggers.

Begin and end project signs will be provided by the Contractor and placed in accordance with the BC sheets.

All signs, barricades, and pavement markings will conform to BC standard sheets, TCP sheets, and the latest version of the Texas Manual on Uniform Traffic Control Devices.

State Standard Sheet(s) “Traffic Control Plan (TCP)” requires that certain signs are to remain in place until the standard pavement markings are placed. The standard markings should be in place no later than 14 days after surface treatment operations are completed.

The Contractor may be required to furnish additional barricades and signs to maintain traffic and promote motorist’s safety. Any additional signs and barricades shall be considered subsidiary to this Item. All signs, barricades and posts will be either new or freshly painted.

After completion of the project, when removing the barricades and signs, the Contractor shall fill any holes left by the barricades or sign supports and restore the area in which the signs were removed to its original condition.

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Traffic control devices as shown in the plans may be adjusted to fit field conditions as directed by the Engineer.

All up-right supports for long/intermediate term stationary sign supports show on BC(4)-03 (both skid mount and direct buried) shall extend to within 4" +/- of the top of the signs.

The Contractor shall have an employee on call nights and weekends with a local address (or any other time that work is not in progress) for maintenance of signs and barricades. This employee shall be located within one hour of traveling time to the project site. The Contractor shall notify the Engineer in writing of the name, address and telephone number of this employee or these employees. The Engineer will furnish this information to local law enforcement officials.

ITEM 504

The Contractor shall supply one field office (Type C) for this project. The building shall be air-conditioned and ventilated as directed by the Engineer. It shall also have an approved washroom equipped with a tank flush toilet and washbasin, both connected to adequate sanitary facilities. The building shall be equipped with electricity and water. The arrangement and number of outlets for these utilities shall be as directed by the Engineer. The buildings shall be equipped with two telephone lines for the use of the Engineer. The line shall be dedicated for the use of TxDOT personnel exclusively and shall not be used for any other purpose. One of the lines shall be utilized for the operation of a computer and the other for telephone usage.

The Contractor shall furnish the (Type C) building with the following, minimum, furniture: 2 desks, 4 office chairs, 1 drafting table, 1 drafting stool and 2 filing cabinets.

The Contractor shall apply for and secure permits necessary for the building. All utility meter deposits and services bills shall be paid by the Contractor. This shall be approved by the Engineer or their representatives.

The Contractor shall provide for the Department's use one (1) desktop computer system in accordance with DMS – 10101, "Computer Equipment" to be placed in the field office.

The Contractor shall provide security for the field office and laboratory as directed by the Engineer.

The Engineer will have access to the use of a facsimile (fax) and copy machine within the field office complex.

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A cellular telephone with a local Corpus Christi number will be furnished to the TxDOT chief inspector for the duration of the project. The phone will have a minimum of 500 local minutes per month with no long distance within the Corpus Christi District. Minutes used in excess of the base amount will be compensated.

ITEM 506

The SW3P for this project shall consist of the following methods as directed by the Engineer.

- Areas of existing vegetation
- Temporary sediment control fence
- Cellulose Fiber Mulch Seeding
- Rock Filter Dams
- Construction Exits

Temporary sediment control fences will be checked and cleared of debris or sediment (as well as maintenance) by the Contractor at least once a week. Sediment control fences will also be checked and cleared of any debris or sediment after a one-half (1/2) inch rain event. These tasks will be considered subsidiary to Item 506 Temporary Sediment Control Fence.

Any sediment control fences damaged due to the Contractor's negligence shall be repaired or replaced at the Contractor's expense.

After temporary erosion control devices are no longer required, cleanup and reshaping of those areas will be required. This work will not be paid for directly but shall be considered subsidiary to the various bid items.

The cleaning of asphaltic pavement equipment will be done in such a manner that will not leave any petroleum contaminants in the right-of-way (ROW). Any petroleum products spilled within the ROW will be cleaned up and disposed of properly. No construction waste materials will be buried within the ROW.

The Contractor will designate a Contractor Responsible Person (CRP) for implementing, maintaining, and reviewing environmental requirements before and during the project. The CRP will be the contact person for the Contractor on these issues.

The Contractor will construct a construction exit at any borrow pit and one at the field office or as directed by the Engineer. The Engineer may direct the Contractor to furnish additional construction exits as deemed necessary.

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The Contractor will use Type II construction exits. Gravel will not be permitted as a substitute. The Contractor may use pipes as in cattle guard type as a substitute for railroad planks as approved by the Engineer.

The Contractor will be responsible for maintaining, cleaning, and making sure the construction exit is in working condition through the entire term of Contract. Any construction waste material left on existing roadways or adjacent roadways will be immediately picked up and will be disposed of in a manner approved by the Engineer. This work will not be paid for directly but will be considered subsidiary to Item 506.

ITEM 540

The Contractor should be aware that the metal beam guard fence paid for under this Item consists of standard sections 12.5 feet in length.

Timber posts shall not be painted. Timber posts shall be a minimum nominal length of 6 feet, except as noted on standard sheet MBGF (TR)-05.

The Contractor will have the option of using either the domed or beveled end timber posts. Mixing of these posts will not be allowed over the continuous length of rail on either side of the roadway centerline.

ITEM 544

The steel tubes for the first two posts shall be driven with an approved driving head. An 18 in. pilot hole will be required for post embedment. Steel tubes will not be driven with the wood post in the tube. The drilled holes option on note number 6 on the applicable standard sheet will not be allowed.

ITEM 672

All raised pavement markers are to meet departmental materials specification DMS-4200, pavement markers (reflectorized), high volume (HV) classification. A list of prequalified suppliers is maintained by the Department's General Services Division. The Contractor shall be capable of providing documentation that they are placing high volume pavement markers on the roadway.

Bituminous adhesive shall be used to bond all pavement markers.

The bituminous adhesive shall be placed at a temperature range of 380 to 390 degrees Fahrenheit. The pavement markers shall be placed on the bituminous adhesive

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approximately twenty (20) seconds after the adhesive is placed on the pavement. The pavement marker shall rest solely on the adhesive and not the pavement surface. There shall be a layer of bituminous adhesive at least 1/8 inch thick between the pavement marker and the pavement surface.

Raised pavement markers are to be placed after the Type I pavement markings have been applied but no later than 30 calendar days after the surface treatment and/or as directed by the Engineer.

ITEM 6110

Pavement surface preparation for markings and markers will not be paid for directly, but will be considered subsidiary to Item 6110. Pavement surface preparation for markings shall conform to Item 678 except for measurement and payment.

The Contractor shall be responsible for referencing and staking out of edge lines, centerlines, no passing zones and channelizing lines. Permanent pavement markings shall not be applied until the Engineer or their representative has approved the locations.

SPECIFICATION DATA

BASIS OF ESTIMATE

ITEM	DESCRIPTION	RATE
168	Vegetative Watering	26.1 mg/ac/month for 3 months
166 *	Fertilizer (16-8-8)	100# nitrogen / acre

* FOR CONTRACTOR'S INFORMATION ONLY. NON-PAY ITEM.

SURFACE TREATMENT DATA

DESCRIPTION	1ST COURSE	2ND COURSE
Surf. Trt. Type	Item 316	Item 316
Asphalt Type	AC Emul	AC Emul
Rate (gal / sy)	0.32 0.45	0.25 0.40
Aggregate	Ty PB Gr 3S SAC-B	Ty PB Gr 4S SAC-B
Aggr. Rate	1:90	1:110

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**COMPACTION REQUIREMENTS
DENSITY**

ITEM	DESCRIPTION	DENSITY
132	Embankment	95% (min.)
247	Flex Base (All Lifts)	100% (min.)

UNIT WEIGHT ESTIMATE

Item 247 Flexible Base	136 lb/cf
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SEQUENCE OF WORK

1. Erect all project advance warning signs and barricades.
2. Construct temporary construction detours and place erosion control devices.
3. Remove existing bridge structure per Construction Staging.
4. Construct new bridge.
5. Perform roadway construction per Construction Staging.
6. Final cleanup.
7. Remove project advance warning signs and barricades.

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PROJECT : IBR 2003(720), ETC
HIGHWAY : FM 1684
COUNTY : REFUGIO

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 JUNE 1, 2004.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (132)
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (204)(210)(400)
ITEM 164 SEEDING FOR EROSION CONTROL (166)(168)(300)
ITEM 168 VEGETATIVE WATERING
ITEM 247 FLEXIBLE BASE (204)(210)(520)
ITEM 314 EMULSIFIED ASPHALT TREATMENT (204)(300)
ITEM 316 SURFACE TREATMENTS (210)(300)(302)
ITEM 334 HOT-MIX COLD-LAID ASPHALT CONCRETE PAVEMENT (204)(300)
(301)(320)(520)(585)
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132)(401)(420)
(421)
ITEM 409 PRESTRESSED CONCRETE PILING (404)(420)(421)(424)(425)
(426)(440)(780)
ITEM 420 CONCRETE STRUCTURES (400)(421)(427)(440)(520)(522)(524)
(526)
ITEM 422 REINFORCED CONCRETE SLAB (420)(421)(424)(426)(430)(440)
ITEM 425 PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS (420)
(421)(424)(426)(427)(434)(440)
ITEM 428 CONCRETE SURFACE TREATMENT (427)
ITEM 432 RIPRAP (420)(421)(427)(431)(440)(520)
ITEM 450 RAILING (420)(421)(440)(520)
ITEM 454 BRIDGE EXPANSION JOINTS (442)
ITEM 496 REMOVING STRUCTURES
ITEM 497 SALE OF SALVAGEABLE MATERIAL
ITEM 500 MOBILIZATION
ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
ITEM 504 FIELD OFFICE AND LABORATORY
ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL

CONTROLS

- ITEM 540 METAL BEAM GUARD FENCE (421) (445) (492) (529) (544)
- ITEM 544 GUARDRAIL END TREATMENTS
- ITEM 644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (421) (440) (441) (442) (445) (634) (636) (643) (656)
- ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
- ITEM 672 RAISED PAVEMENT MARKERS (677) (678)

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, DECEMBER, 1993)

WAGE RATES

- SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
CONSTRUCTION CONTRACT SPECIFICATIONS" (000---006)
- SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)
- SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"
(000---009)
- SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---275)
- SPECIAL PROVISION "OPTIONAL TRAINING" (000---008)
- SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL-AID
CONSTRUCTION" (000---461)
- SPECIAL PROVISION "NOTICE TO ALL BIDDERS" (000---003)
- SPECIAL PROVISION "PARTNERING" (000---002)
- SPECIAL PROVISION "DEPARTMENT DIVISION MAILING AND PHYSICAL ADDRESS"
(000---011)
- SPECIAL PROVISION TO ITEM 3 (003---020)
- SPECIAL PROVISION TO ITEM 5 (005---001)
- SPECIAL PROVISION TO ITEM 6 (006---018)
- SPECIAL PROVISION TO ITEM 8 (008---002)
- SPECIAL PROVISION TO ITEM 9 (009---009)
- SPECIAL PROVISION TO ITEM 100 (100---001)
- SPECIAL PROVISION TO ITEM 420 (420---003)
- SPECIAL PROVISION TO ITEM 421 (421---020)
- SPECIAL PROVISION TO ITEM 434 (434---003)
- SPECIAL PROVISION TO ITEM 440 (440---001)
- SPECIAL PROVISION TO ITEM 441 (441---002)
- SPECIAL PROVISION TO ITEM 442 (442---005)
- SPECIAL PROVISION TO ITEM 496 (496---009)
- SPECIAL PROVISION TO ITEM 497 (497---007)
- SPECIAL PROVISION TO ITEM 500 (500---002)
- SPECIAL PROVISION TO ITEM 502 (502---022)
- SPECIAL PROVISION TO ITEM 544 (544---001)

SPECIAL SPECIFICATIONS:

ITEM 4160 FIBER REINFORCED PLASTIC BEAMS

ITEM 5018 INCENTIVE FOR USING NON-ROAD DIESEL EQUIPMENT POWERED BY
EPA TIER 1, 2, OR 3 DIESEL ENGINES IN NONATTAINMENT AND
AFFECTED COUNTIES

ITEM 6038 PORTABLE CHANGEABLE MESSAGE SIGN

ITEM 6110 REFLECTORIZED PAVEMENT MARKINGS WITH RETROREFLECTIVE
REQUIRMENTS (677) (678)

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 PROVISION

496---009

Removing Structures

For this project, Item 496, “Removing Structures,” of the Standard Specifications, is hereby amended with respect to the clauses cited below, and no other clauses or requirements of this Item are waived or changed hereby.

Article 496.2. Construction, Section A, Removal, Sub-section 3. Steel Structures. The first paragraph is supplemented with the following:

If not specifically shown otherwise on the plans, paint on existing steel structures is classified as a hazardous material unless approved test results show otherwise. When the paint on existing steel is classified as a hazardous material, the Department will remove the hazardous material from the steel in accordance with the following to allow for disassembly:

- A 6-in. wide strip around the perimeter of the beam cross-section for each beam for every 40 ft. of beam length.
- A 4-in. wide strip around the perimeter of the diaphragm member or members at each attachment location to the beams.
- A 4-in. wide strip around bearing attachments and at the anchor bolts.
- As approved elsewhere by the Engineer.

Identify locations where cuts in steel will be made a minimum of 30 days prior to start of steel structure removal. Coordinate with the Department for paint removal operations, and provide traffic control to safely allow paint removal. Provide access to the locations where cuts are to be made to facilitate paint removal. The Engineer will not suspend time for paint testing or paint removal operations, and additional time will not be granted for this work.

Article 496.2. Construction, Section C, Disposal. The first paragraph is supplemented with the following:

Inform the Engineer where the steel will be taken before removing it from the project. Dispose of structural steel coated with paint classified as a hazardous material by transporting it to a steel recycling/smelting facility unless otherwise noted on the plans. Submit invoices obtained from the recycling/smelting facility showing the received weight of the recycled steel.

Article 496.4. Payment. The first paragraph is voided and replaced by the following:

The work performed in accordance with this Item and measured as provided under “Measurement” will be paid for at the unit price bid for “Removing Structures” of the type of structure specified. This price is full compensation for providing access and traffic control to facilitate localized paint removal on steel structures; for demolition of structure; for loading, hauling, disposal, stockpiling, removal of appurtenances, excavation and backfill; and equipment, labor, tools, and incidentals.

SPECIAL PROVISION

497---007

Sale of Salvageable Material

For this project, Item 497, “Sale of Salvageable Material,” of the Standard Specifications, is hereby amended with respect to the clauses cited below, and no other clauses or requirements of this Item are waived or changed hereby.

Article 497.1. Description is supplemented with the following:

The sale of materials depends on meeting the requirements of this Item.

Article 497.2. Construction is supplemented with the following:

Assume that paint coating on salvageable steel contains hazardous materials unless plans or approved test results indicate otherwise. Notify the Engineer where the steel coated with paint classified as a hazardous material will be taken before removing it from the project. Transport structural steel coated with paint classified as a hazardous material to a steel recycling/smelting facility for destruction unless the plans or Engineer allows otherwise. Submit invoices obtained from the recycling/smelting facility showing the received weight of the recycled steel.

If salvageable steel coated with paint classified as a hazardous material is not destroyed by smelting, submit to the Engineer a notarized document outlining the following:

- The receiving entity of the steel.
- The intended use of the steel.
- A statement acknowledging that the steel is coated with a paint classified as a hazardous material.
- A statement acknowledging that removal and disposal of the hazardous coating must be done in accordance with all local, state, and federal regulations.
- The following statement, “For these painted steel materials, it is understood to hold harmless, defend, and indemnify the Department against all obligations, responsibilities, and liabilities (including attorneys’ fees), including damage arising from personal injury, death, property injury, environmental harm, consequential damages or any other loss, arising from the materials that are the subject of this contract, arising from any activities related to the materials, including use or disposal of the materials, occurring on or after the effective date of the contract. The loss or liabilities that are the subject of this paragraph include all obligations, responsibilities, and liabilities arising from the Department’s own actions or inactions that relate to the materials.”

Article 497.4. Payment is supplemented with the following:

Payment for transporting salvaged steel to the steel recycling/smelting facility is considered subsidiary to other bid items in the contract.