

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 6/24/2010

Control	0168-09-152
Project	IM 0401(202)
Highway	IH 27
County	RANDALL

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: IM 0401(202)

CONTROL: 0168-09-152

COUNTY: RANDALL

LETTING: 07/08/2010

REFERENCE NO: 0623

PROPOSAL ADDENDUMS

- PROPOSAL COVER
- BID INSERTS (SH. NO.:
- GENERAL NOTES (SH. NO.: F

- SPEC LIST (SH. NO.:
- SPECIAL PROVISIONS:
- ADDED:

DELETED:

- SPECIAL SPECIFICATIONS:
- ADDED:

DELETED:

X OTHER: SEE CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

GENERAL NOTES: SHEET F - REVISED GENERAL NOTE FOR ITEM 512.

PLAN SHEET: 8B REVISED DUE TO ABOVE CHANGE.

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GENERAL NOTES:

General

Verify all survey control prior to beginning construction. Notify the Engineer of any discrepancies in control prior to beginning construction.

If portions of the right-of-way are used to store materials, equipment, and other uses with the approval of the Engineer, materials, equipment, etc., must either be located outside the 30 feet traffic safety clearance zone or be adequately protected.

The slopes indicated on the typical sections may be varied when fixed features require. Slopes are re-established as directed by the Engineer.

Any work necessary to provide temporary ingress and egress during construction (such as building gravel ramps, etc.) will not be paid for directly, but shall be considered as subsidiary work to the various bid items.

Dust caused by construction operations shall be controlled by applying water in conformance with the requirements of item 204, "sprinkling". Sprinkling for dust control will not be paid for directly, but shall be considered as subsidiary work to the various bid items.

There are 2 "reference markers" within the project limits.

The following standard detail sheets are the modified standard detail sheets:

IL-C (MOD): CURB INLET TYPE C AND EXTENSION TYPE E

IL-H-G (MOD): HORIZONTAL INLET TY H WITH GRATE

MH-M (TY M) (MOD): MANHOLE TYPE M

MH-M (TY M) (SPL): SPECIAL JUNCTION BOX DETAILS

The Contractor is advised that a 35 mph construction speed zone will be applicable for this project. The construction speed zone shall be limited to the actual work areas under construction.

Verify all existing grades, elevations, and cross slopes that will connect to any proposed grades and elevations. If adjustments are warranted, the Contractor shall submit proposed changes to the Engineer for verification.

Remove all excess material from bridge substructure resulting from all construction including planing, seal coat and ACP overlays. This work will not be paid for directly, but shall be considered subsidiary to various bid items in the contract.

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Water valves will be adjusted by the City of Amarillo. Contact Diane Golden (806) 378-6826 a minimum of 3 working days prior to scheduled construction involving water valve.

Contact information for utilities on this project:

- Gas – Atmos Energy, Mike Fort phone: 220-6846
- Telephone – AT&T, Sean Bentley phone: 378-0639
- City of Amarillo Water – Gary Denton phone: 378-9307

Item 7: Legal Relations and Responsibilities

The total area disturbed for this project is approximately 20 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, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the local government that operates a separate storm sewer system.

Item 8: Prosecution and Progress

Working days will be computed and charged in accordance with Article 8.3.A.1 Five-Day Workweek.

Item 132: Embankment

The plasticity index will not exceed 25.

Item 164: Seeding for Erosion Control

All seeding shall be incorporated into the top 1” of soil. Drill seeding accomplishes this. Broadcast seeding will require the use of additional equipment after the placement of the seed.

Item 166: Fertilizer

Fertilize all areas of project to be seeded or sodded.

Fertilizer with a ratio of 2-1-1 shall be applied on all areas to be seeded at a rate of 100 lbs/acre of nitrogen.

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Item 168: Vegetative Watering

Vegetative watering is estimated at .25” per week, for 12 weeks, or as directed by the Engineer. Begin vegetative watering following a rain which pre soaks the soil. If a rain occurs during the watering process, delay the next watering for about 2 days. The intent of watering is to keep the soil moist to promote seed germination. Provide enough equipment to accomplish this intent.

Item 300: Asphalts, Oils, and Emulsions

Asphalt from different sources shall not be blended.

The "open" season for applying asphaltic materials and mixtures for the listed items shall be as follows, unless authorized otherwise in writing by the Engineer:

Items -----	Open season -----
310	All year
316	From May 1st through August 31st
341	From April 15th through October 31st

Item 301: Asphalt Antistripping Agents

Add hydrated lime to the aggregate by the following method only; mix in an approved pug mill mixer with damp aggregate containing water at least 2% above saturated surface dry conditions.

The option of using an additive of lime slurry at the rate of 1% lime of total aggregate weight for virgin material and 1 1/2 % lime of total aggregate weight when recycled asphalt pavement is used. The use of a lime-water mixing procedure shall be approved by the engineer. When lime is used the moisture susceptibility test (Tex-531-C) during production is waived. If the Contractor elects not to use lime all requirements under item 301 shall be achieved.

Item 320: Equipment for Asphalt Concrete Pavement

A self propelled, wheel mounted material transfer vehicle (MTV) capable of receiving hot mix from the haul trucks separate from the paver is required on all courses and all types of hot mix for this project. The MTV shall have a minimum storage capacity of approximately 25 tons, and equipped with a pivoting discharge conveyor and a means of completely remixing the hot mix prior to placement. The paver hopper shall be equipped with a separate surge storage insert with a minimum capacity of approximately 20 tons.

Item 341: Dense-Graded Hot-Mix Asphalt (QC/QA)

Use aggregate that meets the SAC requirement of class B.

Target laboratory molded density is 97.

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The Contractor has the option of using the existing ACP as RAP on this project. No other Department owned RAP source will be available to the Contractor.

When laying ACP on a roadway which has two or more lanes and the work is being done under traffic, then the adjacent lane or lanes shall be overlaid by the end of the following day.

Make a smooth, clean, 1 inch deep butt joint where each end of the new pavement joins the existing pavement. Any method approved by the Engineer can be used to make the joint.

The district lab will perform a maximum of 2(two) design verification tests. If additional verification tests are needed, the Contractor will be billed \$3,500.00 per each additional verification test required to obtain an approved asphaltic concrete pavement mix design. Time will be suspended after all materials are received to perform the design verification. Other non-controlling items of work may proceed during this time.

Item 421: Hydraulic Cement Concrete

The sand equivalent value of fine aggregate shall not be less than 85 when subjected to test method Tex-203-F.

All concrete shall be air-entrained.

The Engineer will provide strength-testing equipment for acceptance testing.

Item 464: Reinforced Concrete Pipe

Joint material for reinforced concrete pipe shall be either cold applied preformed plastic gaskets or cold applied plastic asphalt Sewer joint compound.

Bedding for pipe culverts shall be 6 inches of sand. The excavation required to place the sand will not be paid for directly, but will be considered subsidiary to this item.

Backfill pipe up to the springline with coarse granular material. The ponding method of backfilling will be allowed for the granular material only.

Item 465: Manholes and Inlets

Place inverts in all inlets, manholes, and junction boxes. This work will not be paid for directly, but should be considered subsidiary to this bid item.

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Item 502: Barricades, Signs, and Traffic Handling

The option of using either plastic drums, vertical panels, grabber cones or a combination where drums are shown as channelizing devices, as approved by the Engineer is acceptable. Plastic drums shall be used in all transition areas in accordance with BC (8)-07 and WZ (TD)-03.

Notify the Engineer 24 hours prior to any lane closure.

Item 504: Field Office and Laboratory

The following buildings will be required for this project:

One Type (D) structure, asphalt mix control laboratory

Each building shall be provided before work is begun on the pertinent construction items for which it is needed.

Any laboratory furnished shall be a minimum of 10 ft in width.

The two Type D structures shall be provided, one for the Contractor and one for state personnel.

The Type D structures shall be equipped with the following in addition to requirements specified under item 504:

- a. Safety equipment
 - (1) One eye wash station
 - (2) One fire extinguisher
 - (3) One first aid kit

Furnish a Type D structure for the asphalt mix control laboratory for the Engineer's exclusive use. In addition to requirements of item 504, this structure shall have a minimum height of 8 feet and provide a minimum 400 square feet gross floor area for permanently located plants or 200 square feet for temporary located plants serving one project. The floor area will be partitioned into a minimum of two interconnected rooms, each room furnished with an exterior door and a minimum of two windows. The floor shall have sufficient strength to support the testing equipment and have an impervious covering.

The Type D structures shall be adequately air conditioned and be furnished with a minimum of one desk, three chairs, one file cabinet, a telephone and one built-in equipment storage cabinet for the storage of nuclear equipment. The cabinet shall be a minimum of 3 feet wide by 2 feet deep by 3 feet high and shall have provisions for locking security. The structure shall be provided with a 240-volt electrical service entrance. The service shall consist of a minimum of 4 - 120 volt circuits with 20 amp breakers and no more than two grounded convenience outlets per circuit and provisions for a minimum of two 220-volt ovens with vents to the outside. The

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structure shall have a minimum of 2 convenience outlets per wall, and a utility sink with an adequate clean potable water supply for testing. The state building shall be equipped with a minimum hot water dispenser or hot water heater capable of generating 1 gallon of water per use at 140 degree f with adequate water pressure. Space heaters for heating the structure are unacceptable. Portable structures shall be support blocked for stability and shall be tied down.

For this project, asphalt content will be determined utilizing the ignition method so the structure shall provide for the following in lieu of the item 504 requirements for asphalt content by extraction. The room to contain the ignition oven shall be adequately power ventilated and contain a NEMA 6-50r (208/240 v, 50 a) outlet within 2.5 feet of the ignition oven location and an independent exhaust outlet to the outside no further than 8 feet from the oven. The surface for the ignition oven location shall be level, sturdy, and fireproof with at least 6-inch clearance between the furnace and other vertical surfaces.

If needed, each building shall be moved to a new location as directed by the Engineer. Any building that is no longer required on the job after completion of the pertinent construction items may be released to the Contractor upon consent of the Engineer.

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

Erosion control devices shall be installed as needed in coordination with the work progress, or as directed by the Engineer.

Item 512: Portable Concrete Traffic Barrier

The state will furnish the portable concrete traffic barrier sections for Item 512, "Port. Concrete Traffic Barrier (Des Source)", the state shall supply sufficient hardware to connect the sections together. The sections will be available at the Loop 335 / BI 40 D west.

When the Engineer determines that all phases of construction involving portable concrete traffic barriers are complete, the Contractor shall remove and deliver the PCTB sections, complete with all mounting hardware, to the Loop 335 / BI 40 D west. The Engineer will designate a location for unloading the PCTB sections. This work will be measured and paid for at the unit price bid for item 512, "Port Concrete Traffic Barrier (STKPL)".

Item 529: Concrete Curb, Gutter, and Combined Curb and Gutter

Expansion joints shall be at least one-half inch thick and spaced at maximum intervals of 40 feet. Planes of weakness shall be spaced at approximately ten feet intervals. Joint material will comply with ASTM-D 1751.

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Item 542: Removing Metal Beam Guard Fence

Metal beam guard fence to be removed as per standards and/or as directed by the Engineer. Metal beam guard fence removed under this item deemed salvage by the Engineer will be delivered to 8401 S. Washington, Amarillo, Texas.

Item 545: Crash Cushion Attenuators

The state will furnish the Absorb 350 crash attenuators. The state shall supply sufficient hardware. The crash attenuators will be available at the IH 40/US 287 Jct.

The Department will retain ownership of the Absorb 350 crash cushion attenuators used on this project. Deliver to 8401 S. Washington, Amarillo, Texas.

Item 585: Ride Quality for Pavement Surfaces

Use Surface Test Type B pay adjustment schedule 3 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

Item 618: Conduits

Use only certified persons to perform electrical work as required by item 7.15 of the current Standards book and any Special Provision to Item 7.

Item 620: Electrical Conductors

For both transformer and shoe-base type illumination poles, provide double-pole breakaway fuse holder as shown on the Texas Department of Transportation (TxDOT) – Construction Division's (CST) materials producers list. Category is "Roadway Illumination and Electrical Supplies". Fuse holder is shown on list under items 610 & 620. Provide 10 amp time delay fuses.

Item 662: Work Zone Pavement Markings

The adhesive used for temporary flexible-reflective roadway marker tabs shall be butyl rubber pads.

Item 666: Reflectorized Pavement Markings

If the application of the required Type I markings (thermoplastic) is not allowed because of seasonal limitations outlined in the specifications, then Type II markings (paint and beads) shall be applied in accordance with the item "Reflectorized pavement markings". Later, when conditions permit, place the Type I markings in accordance with the specifications. Payment for

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Type II pavement markings will be made only in the case where paint and beads are actually used.

Item 677: Eliminating Existing Pavement Markings and Markers

Do not remove any existing pavement markings in any area in which work zone pavement markings can not be placed, at the proper location, within the same day.

Item 680: Installation of Highway Traffic Signals

Supply base mounted TS2 Type 1 cabinets and controllers compatible with the department's existing district-wide closed loop central control software (Eagle Marc). Supply controllers and cabinets that are compatible with the existing spread spectrum radio system (MDS 9810). Do not activate traffic signals without prior approval from the engineer in the field. Schedule this work so the existing signal systems will be out of service for as little time as possible.

Item 682: Vehicle and Pedestrian Signal Heads

Provide signal heads constructed of Polycarbonate resin. Cover or aim signal heads away from traffic from the time of installation until placed in operation.

Provide pedestrian signal sections that display the "hand" and "walking person" symbols, symbol height shall be 11 inches minimum the "hand" and "walking" symbol shall be illuminated internally by light emitting diodes (LED).

Item 684: Traffic Signal Cables

See plans and specifications regarding type of cable. A minimum length of 2 feet for each cable shall be left in each ground box and each metal pole base. For each conductor terminating in the controller cabinet, a minimum of 5 feet length shall be provided. Point to terminal point, or as otherwise approved by the engineer. No aluminum conductors will be permitted on this project. Traffic signal cables shall be rated for 600 volt operation.

Item 6007: Removing Traffic Signals

The removal of signs attached to signal poles will be subsidiary to this item. All salvageable items shall become the property of the City of Amarillo. All other items are to be disposed of by the Contractor.

Item 6266: Video Imaging Vehicle Detection System

Provide video detection processors that will plug into TS-2 card detector racks and are compatible with the existing intersection cameras.

Provide a system that is capable of making detection zone adjustments from the video processor unit located inside the traffic signal controller cabinet not from the camera unit only. Provide to the department one (1) lens adjustment module on this contract for making field of view and focusing adjustments.

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Provide a camera interface panel mounted to the wall of the cabinet for protecting the camera video and power inputs/outputs. The panel will contain as a minimum: one (1) Coax protector per camera and VPU power, a convenience outlet protected by the ACP-340 with an On/off toggle switch, and a terminal strip with a minimum of sixteen (16) 8-32 binder head screws.