NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 1/06/2005

Control	**0220-07-051**
Project	**MG 2004(778)**
Highway	**SH 48**
County	**CAMERON**

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an adendum 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.

04/99

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: MG 2004(778) CONTROL: 0220-07-051
COUNTY: CAMERON
LETTING: 01/12/2005
REFERENCE NO: 0105

PROPOSAL ADDENDUMS

_ PROPOSAL COVER
_ BID INSERTS (SH. NO.:)
X GENERAL NOTES (SH. NO.: I, AND O)
X SPEC LIST (SH. NO.: 3-4)
X SPECIAL PROVISIONS:
ADDED: 440-007

DELETED: 440-006

_ SPECIAL SPECIFICATIONS:
ADDED:

DELETED:

X OTHER: PLAN SHEETS 18, 20, AND 21

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

GENERAL NOTES

SHEET I - REMOVED NOTE FOR ITEM 262 LIME TREATMENT FOR BASE COURSES - THAT THE LIME IS TO BE APPLIED TO THE BASE AT A MIXING PLANT AWAY FROM THE CONSTRUCTION AREA.

SHEET O - REMOVED NOTE RELATING TO LOADING, HAULING, UNLOADING, PLACING, MOVING AND RESETTING, STORING, AND FURNISHING OF MATERIALS.

SPECIFICATION LIST

SHEET 3-4 - REMOVED SPECIAL PROVISION 440-006.
SHEET 3-4 - ADDED SPECIAL PROVISION 440-007.

PLAN SHEETS

SHEET 18 - REMOVED NOTE FOR ITEM 262 LIME TREATMENT FOR BASE COURSES
SHEET 20 - ADDED GENERAL NOTE FOR ITEM 454 SEALED EXPANSION JOINTS
SHEET 21 - REMOVED NOTE RELATING TO LOADING, HAULING, UNLOADING, PLACING,

GENERAL NOTES:

Where the Department has acquired additional Right of Way for this project, which results in the perimeter of an existing quarry, or materials pit to be located 200 ft. or less from the edge of the nearest travel lane, the safety treatment of the pit or quarry shall be addressed in accordance with the plans or as required by H.B. 451 Legislation. Any necessary treatment shall be addressed and paid for under special specification Item, "pit and quarry treatment". The Contractor will be responsible for informing the Department of any such pits not identified in the plans, which are encountered during construction.

The schedule for this project shall be prepared by the Critical Path Method (CPM) format. The Contractor shall be responsible for maintaining an accurate vertical and horizontal control throughout the contract.

Upon the request of the Engineer, the Contractor shall furnish to the Engineer a typed narrative report, signed and dated by the Contractor, outlining the manner of prosecution of work that he intends to follow in subsequent thirty-day period.

The Contractor shall provide on a weekly basis a list of equipment, including idle equipment, utilized on the project that week.

The Contractor shall contact the local power companies prior to commencing construction. The Contractor shall coordinate with the power companies for the raising/relocation of power lines where deemed necessary by the Engineer or the Contractor to effect the proposed construction (subsidiary to the various bid Items).

Erection of poles, luminaries, and structures located near any overhead or underground utilities shall be accomplished using established industry and utility safety practices. The Contractor shall consult with the appropriate utility companies prior to beginning such work.

The Contractor’s attention is directed to the possible presence of underground utilities on the Right of Way on this project. The Contractor shall coordinate location with permitted utilities. For coordination with TxDOT underground lines, please contact the Pharr District Signal Section (956-702-6225).

The Contractor shall take extreme care when excavating or drilling in the vicinity of utilities.

The Contractor shall coordinate the clearing and grubbing, excavation and removal and replacement of culverts/structures along the outfall channels with any utility companies whose facilities are encountered.

The following standard detail sheets are modified:

Modified Standards

CLF – 00 (MOD)
IBNS (MOD)
CP – S (Mod)
IBD (MOD)
IBTS (MOD)
RCP (MOD)
RCSP (MOD)
SEJ – P (MOD)
SSCB(1) – 99 (MOD)
SSTR(MOD)

ITEM 4. Scope of Work

Aggregate stockpiles remaining on State's Right of Way 30 days after project's "Final Acceptance" will become the property of the Texas Department of Transportation. Aggregate stockpiles deemed undesirable by the Engineer shall be removed in accordance with the pertinent Specifications of this project.

ITEM 5. Control of the Work

To ensure accurate measurement for final pay quantities and to facilitate the Engineer's check on the Contractor's survey work, the Contractor shall be required to set construction stakes based on plan stations and at 100 ft. Maximum intervals or as directed by the Engineer.

Working day charges will resume if deficiencies identified on the final inspection punch list are not corrected within 14 calendar days, unless otherwise authorized by the Engineer.

ITEM 6. Control of Materials

The Contractor will be required to furnish the area Engineer the maximum gross weights, including loads, for all vehicles, including trucks, truck-tractors, trailers, semi-trailers or any combination of such vehicles used to deliver materials to the project. Maximum gross weights are to be determined in accordance with Item 6, Article 6.7 of the Standard Specifications.

ITEM 7. Legal Relations and Responsibilities to the Public.

404 Permit Requirements:

The Contractor shall note that discharge of permanent or temporary fill material into the waters of the United States (U.S.), including jurisdictional wetlands, as necessary for construction, will require specific approval of the U.S. Army Corps of Engineers (USACE) under section 404 of the clean water act.

TxDOT will obtain the appropriate permit (s), nationwide or individual, when necessary as dictated by project specific conditions and the potential to affect USACE jurisdictional areas. The Contractor may review the permitted plans at the office of the Area Engineer in charge of construction. TxDOT will hold the Contractor responsible for following all conditions of the approved permit. If the Contractor cannot work within the limits or scope of this permit (s), then it becomes the Contractor's entire responsibility to consult with the USACE on the need for changes or amendments to the conditions of the existing permit (s) as originally obtained by TxDOT. However, the Contractor may request TxDOT to assist in this process by providing complete and specific revised details for TxDOT review and submittal to the USACE. For off project right of way coordination, the Contractor or his agent shall handle all activities directly with the USACE.

It is essential that any impacts to USACE jurisdictional waters of the U.S., Including jurisdictional wetlands, be the minimum necessary to complete the proposed work. If the contractor needs further explanation of the conditions of the permit, including means of compliance, they may contact the Pharr District Environmental Coordinator.

Project Specific Locations (PSL'S) Coordination:

The Contractor shall submit PSL'S (haul roads, equipment staging areas, borrow and disposal sites, field offices, storage areas, parking areas, etc.), **associated with permitted area(s)**, to the USACE regional office in Corpus Christi, Texas for review and approval **prior to initiation any work activities at these site(s).**

The point of contact is noted below, and all correspondence for PSL'S should be sent to:

DEPARTMENT OF THE ARMY
GALVESTON DISTRICT, CORPS OF ENGINEERS
CORPUS CHRIST REGULATORY FIELD OFFICE
ATTN: MR. LLOYD MULLINS
5151 FLYNN PARKWAY, SUITE 306
CORPUS CHRISTI, TEXAS 78411-4318
PHONE NUMBER: (361) 814-5847

The written approval letter, regarding these **PSL'S, associated with permitted areas**, must be submitted to the TxDOT Area Engineer **before work of any kind is authorized in these areas.**

Early Coordination and Contract Time:

In order to expedite the approval process to eliminate or minimize potential impacts to project progress, the contactor shall initiate coordination efforts with the usace **within 30 days from the date of "authorization to begin work".** 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.

Reguests 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 shall 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.

ITEM 8. Prosecution and Progress

The open season for the application of asphalt is from April 15, to September 15.

The Contractor shall prepare, maintain and submit to the Engineer, for approval a critical path method (CPA) project schedule, using the latest version available at the time the contract is awarded, of Primavera Project Planner Computer Software

ITEM 100. Preparing Right of Way

Unless otherwise authorized by the Engineer, all obstructions, objectionable material and concrete shall be disposed of by hauling it to disposal sites arranged for by the Contractor and satisfactory to the Engineer.

Pruning: All trees within the limits of the contract and at the Right of Way line shall be pruned by the Contractor to the satisfaction of the Engineer. Pruning shall be done in accordance with accepted pruning practices as set forth by the National Arborist Association in pruning standards for shade trees (current edition). Dead or damaged limbs on trees, including sucker-growth on trunks of trees, are to be removed. Such removed vegetative material shall become the property of the Contractor and shall be removed from the site in a manner acceptable to the Engineer. Unless otherwise noted on the plans, pruning shall be accomplished once during the term of this contract, at dates specified in the plans or as directed by the Engineer.

In accordance with Migratory Bird Treaty Act, during the months of March 1st thru September 1st, the Contractor shall conduct a survey to determine if nests are present within the ROW. If migratory bird nests are found, the Contractor shall not disturb the nesting area until the young

have fledged. Pruning, mowing, or any activities that can disturb the nests shall not be conducted until after September 1st or birds have fledged.

ITEM 110. Excavation

Prior to contract letting, earthwork cross sections will be available at the area Engineer's office for review by the prospective bidders.

ITEM 132. Embankment

The percent of density, as determined by Test Method Tex-113-E, shall be a minimum of 95 percent. Density tolerances will be permitted.

The Contractor's attention is called to the fact that the following note for this Item applies to any material used for embankment other than, that which was excavated from the roadway.

The securing of embankment material by the excavation of ditches for beneficial drainage purposes, the removal of spoil banks, and the removal of hills for land leveling within 200 feet of any public road will be permitted, provided that selection criteria is met.

Embankment (DENS CONT) shall be Type C with a max. PI of 40. Borrow used as embankment material in the top two feet below the bottom of Flexible Base shall meet the following requirements based on preliminary tests and such other tests found necessary by the Engineer.

1. The material shall be such as to produce a well-bonded embankment and shall have a minimum PI of 8 and a maximum PI of 30.

The Contractor's attention is called to the fact that the preliminary test will require approximately 15 days and it is the Contractor's responsibility to advise the Engineer of the location of the source sufficiently in advance to avoid delay.

ITEM 164. Seeding for Erosion Control

Drill seeding and a tacking agent shall be applied in areas designated on the plans or as directed by the Engineer. Prior to seeding, the areas designated shall be finished to a smooth surface for a uniform application of seed.

Drill seeding shall be in accordance with the method shown in the Standard Specification Book.

SS-1 Tacking Agent shall be a ratio of 2:1, two (Emulsion) to one (water) and applied at a rate of 0.05 gallons per square yard.

The SS-1 Tacking Agent required for Drill Seed operations, will not be paid for directly, but will be subsidiary to Item 164 “Drill Seeding”.

Watering shall not be used with the Drill Seed Method.

Seed mixture

Seed mixture shall be as specified under Item 164.

Seed Mixture For High Salt Conditions (Salt Flats)

Seed mixture shall be as specified under Item 164.

Cool Season or Warm Season Grasses shall be included as part of Item 164 (See Table 4A or 5 in the Standard Specification Manual for dates and seed type).

The following are a list of see types that have been found to grow in High Salt Areas and are to be used on SH 48:

Rhode Grass	(2.0 lbs./Acre)
Bermuda Grass	(1.2 lbs./Acre)
Alkali Sacaton	(1.9 lbs./Acre)
Blue Panic	(2.0 lbs./Acre)

Cool season or warm season grasses shall be included as part of Item 164 (See Table 4A or 5 in the Standard Specification Manual for dates and seed type).

ITEM 166. FERTILIZER

Areas to receive fertilizer are the same as shown for Item 164.

Fertilizer rate is based on a rate of 100 Lbs. of Nitrogen per acre. The Nitrogen-Phosphorous-Potassium (NPK) ratio shall include a minimum of 5 percent phosphorous and 5 percent Potassium. Fertilizer shall be homogenized.

This item will not be paid for directly but will be subsidiary to Item 164 “Seeding for Erosion Control.”

ITEM 247. Flexible Base

Flexible Base Type D will be composed of caliche (argillaceous Limestone, calcareous or calcareous clay particles) and may contain stone, conglomerate, gravel, sand or granular materials when these materials are in situ with the caliche.

Flexible Base TY D GR 6 (caliche base) does not meet the requirements of TY A GR 1 base material.

Blended material for Flexible Base TY D GR 6

The Contractor may blend base material with another caliche source or with crushed concrete, provided a minimum of 50% caliche is used. The crushed concrete may contain sand or granular materials. Stabilizing additives will not be allowed in the raw crushed concrete base. Acceptance will be under the following conditions:

Condition One (1): When both components of the blend in their individual stockpiles meet all the physical requirements of this Item, then field blending will be allowed.

Condition Two (2): When only one component of the blend passes the physical requirements of this Item, the materials shall be blended through a plant for stockpile testing and approval.

Flexible Base (TY D GR 6) shall conform to the following requirements:

BEFORE LIME IS ADDED

Retained on Sq. Sieve	Percent Retained
2”	0
½”	20-60
No. 4	40-75
No. 40	70-90
Max. PI:	15
Max. Wet Ball PI:	15
Wet Ball Mill Max Amount:	50
Min. Comp. Strength PSI:	150 at 15 psi lateral pressure

The Wet Ball Test (Tex-116-E) shall be run and the Plasticity Index of the material passing the No. 40 sieve shall be determined (Wet Ball PI).

After 1% lime (laboratory) is added to unlimed material

Max PI	12

Min. Comp. Strength PSI:	180 at 15 psi Lateral Pressure
Triaxial Test (Lime Treated)	Tex-121-E

Two (2) percent lime (by weight) will be incorporated into the Flexible Base in the field at the State's expense in accordance with the provisions of Items 262 and 264.

The percent of density as determined by Compaction Ratio (Tex-113-E) for the new Flexible Base shall be a minimum of 98%. Density, gradation and PI tolerances will be permitted.

Samples for testing the material for soil constants, gradation and wet ball mill shall be taken from production or stockpile as directed by the Engineer.

The Contractor's attention is called to the fact that certain existing and/or proposed structures may be within the limits of the Flexible Base. It shall be the Contractor's responsibility to perform construction operations without damage to these structures.

ITEM 251. Reworking Base Material

Quantities of Flexible Base to be salvaged, shown on the typical sections, are for estimating purposes only. All acceptable base material encountered in existing base is to be salvaged as directed by the Engineer regardless of the quantities involved.

Salvaged base shall be used in the bottom course on any of the proposed roadway and/or turnout sections. The salvaged Flexible Base shall be laid to a compacted thickness that will allow a minimum cover of 4 inches of new Flexible Base on the proposed roadway and/or turnout sections.

Salvaged base may be used on any of the proposed driveway sections.

ITEM 260. Lime Treatment for Materials Used as Subgrade

The Contractor's attention is called to the fact that certain existing and/or proposed structures are within the limits of the lime-treated Subgrade. Unless otherwise directed by the Engineer, these structures shall be installed before the final rolling of this Subgrade. It shall be the Contractor's responsibility to perform the proper lime treating operation without damage to these structures.

Soft spots in the Subgrade are to receive lime stabilization as directed by the Engineer. Adding, mixing, etc., Of the lime for soft spots will not be paid for directly, but shall be considered subsidiary to the bid Item, "Lime Treatment for Materials Used as Subgrade".

ITEMS 260-262. Lime Treatment for Materials Used as Subgrade and Lime Treatment for Base Courses

The slurry method of applying lime will be required, except when the lime is to be added to naturally wet materials as directed by the Engineer.

For this project, the Engineer will direct a random number of lime trucks to be check weighed.

The minimum seven-day curing period and the minimum two-day requirement before opening to traffic shall not apply to this project. The lime treated material shall be kept moist until the treated material is sealed or covered by other material.

ITEM 262. Lime Treatment for Base Courses

A lime spreader box will not be required if lime can be distributed without it, at a uniform rate, to the satisfaction of the Engineer.

ITEM 300. Asphalt's, Oils and Emulsions

Asphalt binder used for ACP TY D, shall meet the requirements of a Performance Grade 64-22, (Modifiers L, S, TR, RET or others as approved by materials & test section shall be required as per SP 300), unless otherwise in the plans.

Asphalt binder used for ACP TY B, temporary ramps/detours and driveways shall meet the requirement of a Performance Grade 64-22.

ITEM 301. Asphalt Antistripping Agents

Lime TY A or B shall be added as an Antistripping additive between the rates of 1 % minimum – 1.5% maximum by weight. If TEX-531-C cannot be met within these limits, Liquid Antistripping agents as approved by the Engineer may be used in conjunction with lime, at the maximum allowable lime content, in order to meet the specified requirement.

If the Contractor elects to use lime slurry, a pug mill will be used to ensure thorough mixing of the lime and aggregates.

Moisture susceptibility testing will be required.

ITEM 302. Aggregate for Surface Treatments

This project will require a Minimum Aggregate Classification of ("A").

The aggregate for the surface treatment shall be surface dry before application unless otherwise directed by the Engineer.

ITEM 310. Prime Coat (Cutback Asphaltic Material)

The Contractor shall exercise diligence in the application of asphalt by the use of flagging and rolling procedures to keep from spraying or splattering the traveling public with asphaltic material.

All existing Flexible Base, which may become exposed by the planing operation, shall be primed at the rate of 0.2 Gal/SY.

ITEM 316. Surface treatments

The rates of application and the estimated quantities of aggregate are based on the usual or average gradation of known materials. Prior to shipping aggregate to the project, the Contractor shall furnish the Engineer with samples of the proposed aggregate, which is intended to be used so that the gradation may be determined and rate of application changed if necessary.

Surface treatments with unheated aggregate shall not be applied when the air temperature is below 70 degrees F and is falling but it may be applied when the air temperature is above 60 degrees F and is rising. Asphaltic material may be placed by preheating aggregate to 280 degrees F when the air temperature is 70 degrees F and falling or when the air temperature is 50 degrees F and rising.

To minimize windshield damage, sealed sections of roadways and all paved surfaces adjacent to sealed sections shall be broomed and cleaned of surplus aggregate before opening to traffic. All surfaces sealed during a working day and adjacent paved surfaces will be broomed before the end of the day as directed by the Engineer. This brooming shall be subsidiary to this bid Item.

The type and grade of asphalt as shown on the plans and/or as directed by the Engineer, shall be used on these projects. Asphalt cement will be used during the warm season (usually April 15th to September 15th). An emulsified asphalt will be used during the cooler season (usually September 15th to April 15th), if permitted in writing by the Engineer. The emulsified asphalt, if used, shall be HFRS-2. Estimated quantities shown for the bid Item is based on an average of the estimated rates of application for asphaltic cement and emulsified asphalt. These rates should be used for estimating and comparison purposes only.

The one or two-course surface treatment shall be in place for a sufficient period of time in the opinion of the Engineer, for the surface treatment to properly dry and cure before placing the Asphaltic Concrete Pavement.

Traffic will not be permitted on the surface treatment unless authorized by the Engineer.

ITEM 354. Planing and/or Texturing Pavement

Planning to be done on all bridge approaches shall be done as necessary to achieve the 1-1/2" called for in the plan details. All other planing locations and dimensions will be done as shown in the plans and/or as directed by the Engineer.

ITEM 400. Excavation and Backfill for Structures

Cement stabilized backfill shall contain aggregate, water and a minimum of 2 sacks of Portland cement per cubic yard of material. Cement and water shall conform to the requirements of Item 421, "Portland Cement Concrete". Aggregate shall be clean sand or other suitable material and shall be subject to the approval of the Engineer.

Aggregate shall be clean sand or other suitable material and shall be subject to the approval of the Engineer.

If the Contractor elects to cut pavement (existing/detour) for structural work beyond that required by the construction phasing shown in the plans and approved by the Engineer, it shall be restored at his expense and backfilled to its original condition or better in accordance with Item 400.

ITEM 416. Drilled Shaft Fundations

The Contractor’s attention is directed to the possible presence of underground utilities on the Right of Way on this project. The Contractor shall coordinate location with permitted utilities. For coordination with TxDOT underground lines, please contact the Pharr District Signal Section (956-702-6225).

ITEM 420. Concrete Structures

Bent concrete and slab concrete for prestressed concrete beam units shall be paid as plan quantity.

ITEM 421. Portland cement Concrete

Class "A" Concrete used in the structural application within the limits of the paved roadway, will require a minimum of one (1) set of beams per each day of production.

Sulfate resistant concrete will be required for all concrete piling, sheet piling, and abutment caps, backwalls and wingwalls.

The Contractor shall provide equipment for concrete batch plant inspection for determining the free moisture and/or absorption of aggregates in accordance with applicable TXDOT Test Methods and this specification for use by the Contractor during production and for verification by the Engineer.

The Contractor shall provide for the Department's use one (1) laptop computer system for concrete batch plant inspection and shall be subsidiary to the various bid Items.
The following software and hardware listed below or approved equal or better shall be provided:

Software: Match specification requirements of special specification 3637 or latest TxDOT computer equipment specification.

Hardware: Laptop computer is to match specification requirements of special specification 3637 or latest TxDOT computer equipment specification. Printer is to match printer specification requirements of special specification 3637 or latest TxDOT computer equipment specification. All incidentals necessary for hardware connections and operations of the system are to be included.

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 computer and 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

ITEM 425. Prestressed Concrete Structural Members

Where road closures or detours around structures are necessary to accomplish proposed work, the removal of existing structures and/or cutting of existing pavement will not be permitted until all precast and/or prestressed members for the proposed structure have been cast, tested and approved for use.

ITEM 427. Surface Finishes for Concrete

Surfaces finishes for concrete shall be provided as follows:

(1) Bridge overpass and underpass structures – surface area I, special architectural stain finish (color to be determined by the Engineer).
(2) Bridge waterway crossings and bridge class box culvert structures – surface area III, special architectural stain finish (color to be determined by the Engineer).
(3) Concrete traffic barrier/railing (roadway and bridge) and retaining wall coping – special architectural stain finish (color to be determined by the Engineer) to all exposed surfaces.

The surface finish for all proposed retaining walls shall be Ashlar Stone, with a special architectural concrete stain (color to be determined by the Engineer). The Contractor shall pour and stain finish a 3' x 3' sample panel of the proposed retaining walls. The panel shall meet with the requirements of the plans and specifications and be approved by the Engineer before retaining wall panels may be cast. The approved sample panel shall be considered typical for the required finish. Any deviation of color, grade or depth from the approved sample panel shall be grounds for rejection, requiring removal and replacement as specified by the Engineer. The sample panel shall not be paid for directly, but shall be subsidiary to Item 423.

ITEM 430. Extending Concrete Structures

Old concrete shall be disposed of by hauling it off the project and out of sight from State highways to disposal sites arranged for by the Contractor and satisfactory to the Engineer.

On single and/or multiple box culvert extensions, the Contractor shall work expeditiously to complete all work on the structure including placement of pipe runners, required safety treatment or railing, Backfilling, etc. The portion of roadway which is not handling traffic due to the culvert extension will not be opened to traffic until all work as described above and shown on the TCP has been completed.

ITEM 432. Riprap

All concrete riprap, except concrete that is used on safety end treatments, shall be 4" thick unless otherwise shown on the plans.

ITEM 454. Sealed Expansion Joints

Paint portions of steel sections not in contact with concrete with the primer specified for system III paint (for corrosive environments).

ITEM 462. Concrete Box Culverts and Sewers

Joints in precast concrete box culverts shall be made using any of the methods specified in the Item 464, except mortar joints or rubber gasket joints.

The concrete box culvert shall be precast, except as noted on plans, to expedite handling of traffic.

Aggregate for cement stabilized backfill shall be clean sand or other suitable material and shall be subject to the approval of the Engineer.

On single and/or multiple box culvert construction, the Contractor shall work expeditiously to complete all work on the structure including placement of pipe runners, required safety treatment or railing, Backfilling, etc. The portion of roadway which is not handling traffic due to the culvert construction will not be opened to traffic until all work as described above and shown on the TCP has been completed.

Contractor shall provide the Engineer with the casting schedule of all pre-cast concrete boxes prior to beginning any fabrication.

ITEM 464. Reinforced Concrete Pipe

Tongue and groove pipe will be required for installations where part of the structure may protrude into the Lime Treated Subgrade. The 4-foot depth restriction for heavy equipment passage over pipe structures is voided. The Contractor will be responsible for any construction damage to these facilities.

The 4-foot depth restriction for heavy equipment passage over pipe structures is voided. The Contractor will be responsible for any construction damage to these facilities.

Cold Applied, Plastic Asphalt Sewer Joint Compound may be used on this project.

All reinforced concrete pipe shall include rubber gaskets unless shown otherwise on the plans or directed by the engineer

ITEM 467. Safety End Treatment

All Type II SET’s shall have riprap aprons as shown on the plans. The contractor may submit an alternate precast SET design for approval by the Engineer.

ITEM 502. Barricades, Signs and Traffic Handling

The Traffic Control Plan for this project shall be as shown in the plans, as detailed on the "Barricade and Construction Standard" Sheets and as provided for in the 1980, "Texas Manual on Uniform Traffic Control Devices".

Shadow vehicles equipped with Truck-Mounted Attenuators are required, as shown on Traffic Control Plan (TCP) standards. The Contractor shall provide to the Engineer a letter certifying that all Truck-Mounted Attenuators (TMA) used on this project that were purchased on or after October 1, 1998, have been found to be crashworthy using the criteria outlined in the National Cooperative Highway Research Program (NCHRP) Report 350. If the TMA was purchased prior to October 1, 1998, a letter certifying crashworthiness using the criteria outlined in either NCHRP Reports 230 or 350 shall be provided to the Engineer.

The Contractor shall replace/relocate all regulatory signs removed due to construction operations with a same sign on fixed support(s) immediately upon its removal. The Contractor will first obtain project Engineer approval before removing any regulatory roadway sign. Required flaggers are to be available to direct traffic during sign intermediate down time.

The Contractor shall also be required to relocate any Directional Sign Assemblies removed during construction operations immediately upon their removal.

These signs shall be relocated to a location in accordance with the Latest Version of the “Texas Manual on Uniform Traffic Control Devices”. In no case will a sign be removed without a replaceable sign and support(s) being readily available and a location established. Removal and relocation of these signs required for traffic control will not be paid for directly, but shall be considered subsidiary to Item 502.

The Contractor's attention is called to the "No Center Stripe" sign and other signs in the "Traffic Control Details for Seal Coat Operations" which are included in the plans. These signs are to be furnished and installed by the Contractor and shall remain in place after completion of the surface treatment operation until standard pavement markings are placed but no longer than 3 days. These signs are in addition to the signs and barricades that may be required on sheets BC (1) thru (12) 03

The Contractor shall maintain the concrete median barrier in first class condition and, when no longer needed for traffic control, return the concrete median barriers to the TxDOT office in San Benito, Texas. Any concrete median barrier damaged beyond reasonable repair shall be replaced at the Contractor's expense.

ITEM 504. Facilities for Field Office and Laboratory

The Contractor shall furnish one air-conditioned Field Office (TY E) at a location satisfactory to the Engineer. This building shall not be less than 8 feet by 16 feet and 8 feet high or an

approved equivalent and shall not have less than four glass windows and one door. A workbench and a table, each 3 feet wide and 6 feet long, shall be provided.

The Contractor shall furnish 120-240 volt single-phase electricity to the field office.

Electricity and plumbing provided to the field office needs to be connected within 30 days of beginning work.

The Contractor will furnish a Type D Structure (Asphalt Mix Laboratory) for the Engineer, meeting the requirements of Item 504. The Contractor is responsible for locating this laboratory at the plant site. The laboratory shall be available to the Engineer prior to the paving operations. Building and its contents will be subject to the approval of the Engineer. The building will be not less than 12 feet by 32 feet and 8 feet high. The building will be partitioned into a minimum of two rooms, each room furnished with an exterior door and a door between rooms. All doors will have a minimum width of 36 inches and 80 inches high. All exterior openings will be secured with burglar bars. Adequate parking area will be provided for at least two full size vehicles.

Storage room:

One room will be used for sample storage and will be 9 ft. by 12 ft. It will have counters 24 inches in width and 30 inches high placed along the walls. The storage room will have a minimum total counter length of 13 ft. The room will be equipped with 1-wall light switch, 1-ceiling light and 1-20 amp-110 volt outlet.

Laboratory room:

The other room of this building will be used as a laboratory and will include access to a bathroom facility from the interior. The laboratory and bathroom facility will have the walls, ceiling and floor insulated such that the air temperature can be maintained at 76 degrees Fahrenheit at all times. The Contractor is responsible for maintaining all mechanical, electrical and plumbing facilities at all times. The top of the workbench shall not be less than 36 inches by 60 inches and will be constructed of expanded metal reinforced to support required testing equipment. A fresh air intake shall be located so solvent vapors are drawn away from the workers and prevent removal of air from the temperature-controlled space. The ovens used to dry aggregate, cure, and ignite asphalt mixes will be vented upward to the outside. The Contractor will connect the vent ducts to the ovens. The laboratory will be furnished with work counters measuring 36 inches in width and 36 inches in height along the walls. The laboratory will have a minimum total work counter length of 20 ft. A desk measuring 36 inches by 6 ft will be furnished. The laboratory portion will have two windows. A laboratory sink measuring 24 inches by 30 inches and 12 inches deep will be provided. The laboratory portion will be equipped with at least seven 20 amp-110 volt outlets, four (4) 30 amp-220 volt outlets,

Two light switches on the wall and fluorescent ceiling lights capable of providing lighting meeting ANSI standards for industrial lighting. All outlets will be compatible with the electrical requirements of the equipment to be used for testing.

The Contractor shall provide for the Department's use one (1) desktop computer system to be placed in the Engineer's laboratory for asphalt mix testing. The following software and hardware listed below or approved equal shall be provided:

Software: Match specification requirements of special specification 3637 or latest TxDOT computer equipment specification.

Hardware: Desktop computer is to match specification requirements of Special Specification 3637 or latest TxDOT computer equipment specification. Printer is to match printer specification requirements of Special Specification 3637 or latest TxDOT computer equipment specification. All incidentals necessary for hardware connections and operations of the system are to be included

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 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, all hardware and software shall be returned to the Contractor.

The Contractor will provide and pay for the electrical, other utilities, telephone installations and the monthly service charges, and the email monthly access charges. The telephone line provided will be separate from other lines.

ITEM 529. Concrete Curb, Gutter and Combined Curb and Gutter

Membrane curing, Type 2, will be required.

In the event that an extrusion machine is not used, application of mortar paste to accurately shape the face of the concrete curb or curb and gutter shall normally be placed within 15 minutes and not later than 25 minutes after the concrete is placed in the forms.

The entrained air requirement shall not apply to this Item.

Before final acceptance of the project, discoloration caused by tire marks, mud, asphalt, paint or other similar material shall be removed by any method satisfactory to the Engineer to achieve a uniform color and texture of the finished surface exposed to view.

ITEM 530. Driveways and Turnouts

Flexible Base shall meet the requirements of Item 247, prime coat shall meet the requirements of Item 310, and Asphaltic Concrete Pavement shall meet the requirements of Item 3146, except for measurement and payment.

Flexible Base used to construct private and/or commercial driveways will not require lime admixture.

Daily testing requirements for Hot Mix Asphaltic Concrete Pavements for drives, commercial entrances and/or turnouts may be waived by the Engineer.

The rate of prime shall be 0.10 Gal/SY for private and/or commercial driveways and 0.20 Gal/SY for public turnouts.

The concrete driveway work to be done on this project consists of reconnecting existing concrete driveways.

ITEM 540. Metal Beam Guard Fence

The optional terminal anchor post with the terminal connector will be required as shown on the Metal Beam Guard Fence Standard.
Steel line posts for metal beam guard fence shall be embedded in concrete 12 inches in diameter. All concrete for line posts shall be Class B and will be subsidiary to Item 540.

ITEM 542. Removing Metal Beam Guard Fence

Contractor shall deliver all salvageable metal beam guard fence materials to the TXDOT maintenance yard located in Brownsville, Texas.

ITEMS 636, Aluminum Signs

Complete sign blanks and panels shall be handled and stored at the job site in such a manner that corners, edges and faces are not damaged. Finished sign blanks shall be stored in either a weatherproof warehouse or outside and off the ground in a vertical position. All paper, cardboard and chemically treated separators and packaging shall be removed prior to outside storage.

ITEM 644, Small Roadside Sign Assemblies

All signs shall be installed in accordance with the current edition of the "Texas Manual on Uniform Traffic Control Devices".

Any detail that conflicts with the standard plan sheets shall be brought to the attention of the Engineer prior to construction unless a note is placed adjacent to the detail to indicate an intentional deviation from the standard plan sheets.

All excess excavation shall be spread uniformly inside the right of way as directed by the Engineer and shall be included in the price of these Items.

All signs shall be erected according to the locations shown on the signing layout sheets except that the Engineer may shift a sign in order to secure a more desirable location. The Contractor will stake all sign locations as shown in the plans and approved by the Engineer. It is the intent of the plans to erect all roadside traffic signs with the sign edge a minimum of 6 feet from the edge of the shoulder, or if none, 12 feet from the edge of the travel lane. In curb and gutter sections the sign edge shall be a minimum of 2 feet from the face of the curb.

For this project, the Contractor will be required to provide aluminum type of sign blanks as provided for under Item 636 for all proposed signing installed under Item 644. Aluminum sign blanks less than 7.5 square feet shall be 0.08 inch thick, sign blanks 7.5 to 15 square feet shall be 0.100 inch thick and sign blanks greater than 15 square feet shall be 0.125 inch thick.

Sign types which design details are not shown on the plans shall conform with the latest edition of the Department's "Standard Highway Sign Design for Texas" Manual.

ITEM 649, Removing or Relocating Roadside Sign Assemblies

The Contractor shall remove the complete sign installation and separate the sign post at the concrete foundation. The Contractor shall dispose of the concrete foundation in accordance with this Bid Item. Except for concrete foundations, all removed sign panels, sign posts, and hardware shall remain the property of the Department. All removed sign installations shall be completely disassembled. All salvageable sections of sign panels shall be recycled by TxDOT. The Contractor will be required to haul the removed sign material to the maintenance yard closest to the project. No signs shall be removed without prior approval of the Engineer.

ITEM 658, Delineator and Object Marker Assemblies

Delineator assemblies shall be installed 8 feet from the edge of the shoulder unless restricted by some obstruction, in which case, the delineator assembly shall be placed between 2 and 8 feet from the edge of the shoulder.

Bi-directional installation of object markers shall be by any method satisfactory to the Engineer.

ITEMS 662 AND 666, Work Zone Pavement Markings and Reflectorized Pavement Markings

All permanent pavement markings and work zone pavement markings for this project under these Items shall be 0.090 inches (90 mil) thick thermoplastic.

Any permanent pavement markings or non-removal work zone pavement markings lacking reflectivity in accordance with test method Tex 828-B, will not be paid for, as per district policy. The Contractor will be required to restripe at his own expense.

Pavement surface preparation for markings and markers will not be paid for directly, but shall be considered subsidiary to Item 666.

Prior to any striping operations, an on-site coordination meeting between the prime and Sub Contractor superintendents and the TxDOT inspector will be required to review striping details and requirements to ensure quality work. This does not relieve the striping Contractor from required adherence to plans and Specifications.

The beads used on this project shall meet the requirements of Departmental Materials Specification DMS-8290, Glass Traffic Beads Texas Type III.

ITEM 677, Eliminating Existing Pavement Markings and Markers

Asphalt and aggregate types and grades shall be as approved in writing by the Engineer when a surface treatment is used to eliminate existing pavement markings.

ITEM 688, Traffic Signal Detectors

The Contractor shall install a loop detector to replace the one destroyed due to construction operations. The Contractor shall mark the existing loop detector location and obtain its configuration and orientation for replacement with same size loop detector on new lane.

Loop vehicle detectors shall be installed in accordance with plan Standard Sheet LD1-03 (Loop Detector Installation Details). All loop detectors shall be rectangular.

Loop wires in street shall be #14 AWG.

Splices for loop wire will be permitted only at ground boxes or pole base with Scotchcast or Hysol Electrical Insulating Resin weatherproof splice kits or approved equal.

A minimum length of 2 feet for each cable shall be left in each ground box.

All wiring not covered by the plans and specifications shall be in accordance with the latest edition of the National Electrical Code.

References

References to manufacturers' trade names or catalog numbers are for the purpose of identification only and the Contractor will be permitted to furnish like materials of other manufacturers provided they are of equal quality and comply with the specifications and are approved by the Engineer.

Handling of traffic

Roads and streets shall be kept open to traffic at all times. The Contractor shall arrange the setting of loop detectors so as to close only one lane of a roadway at a time and to permit the continuous movement of traffic in both directions at all times.

All construction operations shall be conducted to provide the least possible interference to traffic as shown on the plans, as provided for in the specifications and/or as directed by the Engineer. All signing, barricading and handling of traffic shall conform to the current edition of the "Texas Manual on Uniform Traffic Control Devices".

Sequence of work

1. The existing traffic signal installation shall remain in operation at all times during construction of the proposed loop detector work.
2. Final inspection shall be done in conjunction with the TxDOT Pharr District Signal Shop.

ITEM 3146. QC/QA of Hot Mix Asphalt

The contractor shall exercise diligence in the application of "Tack Coat" by the use of flagging and rolling procedures to keep from spraying or splattering the travelling public with asphaltic material.

Blading may also be necessary to clean dirt and grass from pavement edges and turnout areas as work under this bid Item. The cost of this blading will not be paid for directly, but shall be considered subsidiary to this bid Item.

This project will require a Minimum Aggregate Classification of "A".

Crushed gravel fine aggregate (screenings) will be allowed.

Lime shall be used as an antistripping agent for this project.

All longitudinal joints adjacent to a travel way shall be constructed with a joint maker providing a maximum ½-inch vertical edge and a minimum 6:1 edge taper or as approved by the Engineer

ITEM 5004. Temporary Erosion, Sediment and Water Pollution Prevention and Control

The SW3P for this project shall consist of using the following Items as directed by the Engineer:

Temporary Sediment Control Fence
Construction Exits
Earthwork for Erosion Control

ITEM 5880. Ride Quality for Pavement Surfaces

Ride quality shall be measured utilizing Surface Test Type "A".

Inertial profiler results shall be submitted to TxDOT the next working day after each day's paving.
Pavement areas with consecutive public turnout intersections less than 350 ft. in spacing and/or with structures creating discontinuity of paving operations will not be subjected to inertial profiler testing. These areas shall be evaluated using the 10-ft. Straightedge.

This project will require schedule 1 with Localized Roughness (LR) penalty accessed.

CONTROL : 0220-07-051
PROJECT : MG 2004(778)
HIGHWAY : SH 48
COUNTY : CAMERON

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 MARCH 1, 1993. 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 104 REMOVING CONCRETE
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (204)(400)
ITEM 164 SEEDING FOR EROSION CONTROL (166)(168)(169)(300)
ITEM 204 SPRINKLING
ITEM 247 FLEXIBLE BASE (204)(303)(520)
ITEM 251 REWORKING BASE MATERIAL (204)(520)
ITEM 260 LIME TREATMENT FOR MATERIALS USED AS SUBGRADE (ROAD MIXED) (132)(204)(264)(300)(520)
ITEM 262 LIME TREATMENT FOR BASE COURSES (ROAD MIXED) (204)(247) (260)(264)(300)(520)
ITEM 310 PRIME COAT (CUTBACK ASPHALTIC MATERIAL) (300)
ITEM 316 SURFACE TREATMENTS (210)(213)(300)(302)(303)(520)
ITEM 354 PLANING AND/OR TEXTURING PAVEMENT
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132)(420)(421) (524)
ITEM 403 TEMPORARY SPECIAL SHORING
ITEM 409 PRESTRESSED CONCRETE PILING (404)(420)(421)(424)(425) (426)(440)(5699)
ITEM 420 CONCRETE STRUCTURES (400)(404)(421)(426)(427)(433)(435) (437)(438)(440)(441)(448)(520)(522)(524)(526)(5699)
ITEM 422 REINFORCED CONCRETE SLAB (420)(421)(424)(426)(427)(430) (437)(440)(443)(520)(522)(524)(526)
ITEM 425 PRESTRESSED CONCRETE STRUCTURAL MEMBERS (420)(421)(424) (433)(435)(440)(442)(524)
ITEM 428 CONCRETE SURFACE TREATMENT
ITEM 432 RIPRAP (247)(420)(421)(427)(431)(440)(520)(522)(524)(526)
ITEM 450 RAILING (420)(421)(424)(440)(441)(442)(445)(446)(448)

(520)(522)(524)(526)
ITEM 454 SEALED EXPANSION JOINTS (435)(441)(442)(446)
ITEM 462 CONCRETE BOX CULVERTS AND SEWERS (400)(420)(421)(424)
(427)(440)(464)(520)(522)(524)(526)
ITEM 464 REINFORCED CONCRETE PIPE (400)
ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(424)(427)(440)
(464)(520)(522)(524)(526)
ITEM 467 SAFETY END TREATMENT (400)(420)(421)(424)(430)(432)(440)
(445)(460)(462)(464)(496)(520)(524)(526)
ITEM 480 CLEANING EXISTING CULVERTS
ITEM 496 REMOVING OLD STRUCTURES (430)(497)
ITEM 500 MOBILIZATION
ITEM 502 BARRICADES, SIGNS AND TRAFFIC HANDLING
ITEM 504 FACILITIES FOR FIELD OFFICE AND LABORATORY (5519)
ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (421)(424)(437)(440)
(442)(526)
ITEM 514 PERMANENT CONCRETE TRAFFIC BARRIER (400)(416)(420)(421)
(424)(427)(437)(440)(526)
ITEM 529 CONCRETE CURB, GUTTER AND COMBINED CURB AND GUTTER (360)
(420)(421)(437)(440)(526)
ITEM 530 DRIVEWAYS AND TURNOUTS (360)(522)
ITEM 540 METAL BEAM GUARD FENCE (421)(442)(445)(492)
ITEM 542 REMOVING METAL BEAM GUARD FENCE
ITEM 550 CHAIN LINK FENCE (421)(445)
ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421)(440)(634)(636)(646)
(656)
ITEM 649 REMOVING OR RELOCATING ROADSIDE SIGN ASSEMBLIES (445)
(634)(636)(637)(643)(646)(647)(656)
ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(672)(677)
ITEM 666 REFLECTORIZED PAVEMENT MARKINGS (678)
ITEM 668 PREFABRICATED PAVEMENT MARKINGS (678)
ITEM 672 RAISED PAVEMENT MARKERS (677)(5699)
ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)
(302)(316)(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---001)
SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000--1981)
SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"
(000---003)
SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--4025)
SPECIAL PROVISION "OPTIONAL TRAINING" (000--3487)
SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL-AID

CONSTRUCTION" (000--4072)
SPECIAL PROVISION "NOTICE TO ALL BIDDERS" (000---482)
SPECIAL PROVISION "PARTNERING" (000--2169)
SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--4505)
SPECIAL PROVISION TO ITEM 1 (001---182)
SPECIAL PROVISION TO ITEM 2 (002---106)
SPECIAL PROVISION TO ITEM 3 (003---065)
SPECIAL PROVISION TO ITEM 4 (004---014)
SPECIAL PROVISION TO ITEM 5 (005---027)
SPECIAL PROVISION TO ITEM 6 (006---018)
SPECIAL PROVISION TO ITEM 7 (007--1059)
SPECIAL PROVISIONS TO ITEM 8 (008---117)(008---244)
SPECIAL PROVISION TO ITEM 9 (009---062)
SPECIAL PROVISION TO ITEM 110 (110---004)
SPECIAL PROVISION TO ITEM 164 (164---006)
SPECIAL PROVISION TO ITEM 169 (169---002)
SPECIAL PROVISION TO ITEM 213 (213---001)
SPECIAL PROVISION TO ITEM 247 (247---018)
SPECIAL PROVISION TO ITEM 260 (260---001)
SPECIAL PROVISION TO ITEM 264 (264---001)
SPECIAL PROVISION TO ITEM 300 (300---081)
SPECIAL PROVISION TO ITEM 301 (301---002)
SPECIAL PROVISION TO ITEM 302 (302---019)
SPECIAL PROVISION TO ITEM 303 (303---006)
SPECIAL PROVISION TO ITEM 316 (316---004)
SPECIAL PROVISION TO ITEM 360 (360---053)
SPECIAL PROVISION TO ITEM 400 (400---026)
SPECIAL PROVISION TO ITEM 409 (409---005)
SPECIAL PROVISION TO ITEM 416 (416---008)
SPECIAL PROVISION TO ITEM 420 (420---015)
SPECIAL PROVISION TO ITEM 421 (421---072)
SPECIAL PROVISION TO ITEM 424 (424---006)
SPECIAL PROVISION TO ITEM 425 (425---001)
SPECIAL PROVISION TO ITEM 426 (426---005)
SPECIAL PROVISION TO ITEM 427 (427---003)
SPECIAL PROVISION TO ITEM 428 (428---002)
SPECIAL PROVISION TO ITEM 433 (433---003)
SPECIAL PROVISION TO ITEM 435 (435---001)
SPECIAL PROVISION TO ITEM 437 (437---001)
SPECIAL PROVISION TO ITEM 440 (440---007)
SPECIAL PROVISION TO ITEM 441 (441---008)
SPECIAL PROVISION TO ITEM 442 (442---018)
SPECIAL PROVISION TO ITEM 445 (445---001)
SPECIAL PROVISION TO ITEM 446 (446---008)
SPECIAL PROVISION TO ITEM 462 (462---007)
SPECIAL PROVISION TO ITEM 464 (464---003)
SPECIAL PROVISION TO ITEM 466 (466---007)
SPECIAL PROVISION TO ITEM 467 (467---009)
SPECIAL PROVISION TO ITEM 502 (502---027)
SPECIAL PROVISION TO ITEM 520 (520---001)
SPECIAL PROVISION TO ITEM 522 (522---002)
SPECIAL PROVISION TO ITEM 524 (524---007)
SPECIAL PROVISION TO ITEM 526 (526---003)
SPECIAL PROVISION TO ITEM 530 (530---012)

SPECIAL PROVISION TO ITEM 540 (540---024)
SPECIAL PROVISION TO ITEM 556 (556---001)
SPECIAL PROVISION TO ITEM 662 (662---008)
SPECIAL PROVISION TO ITEM 666 (666---043)
SPECIAL PROVISION TO ITEM 672 (672---012)
SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 3146 (3146--017)

SPECIAL SPECIFICATIONS:

ITEM 1974 CONSTRUCTION FENCE
ITEM 3146 QUALITY CONTROL/QUALITY ASSURANCE OF HOT MIX ASPHALT (300)(301)(520)(5880)
ITEM 3637 COMPUTER EQUIPMENT
ITEM 4918 INTERLOCKING ARTICULATING CONCRETE BLOCKS
ITEM 5004 TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION PREVENTION AND CONTROL
ITEM 5010 CONSTRUCTION EXITS (5004)(5012)
ITEM 5012 EARTHWORK FOR EROSION CONTROL (556)(5004)
ITEM 5249 TEMPORARY SEDIMENT CONTROL FENCE (5004)
ITEM 5519 TRANSPORTABLE CELLULAR TELEPHONES
ITEM 5699 EPOXY AND ADHESIVES
ITEM 5819 SINGLE GUARDRAIL TERMINAL (540)
ITEM 5866 CURB RAMP AND LANDING (104)(360)(420)(421)(437)(440)(526)
ITEM 5880 RIDE QUALITY FOR PAVEMENT SURFACES
ITEM 5985 REUSABLE ENERGY ABSORBING CRASH TERMINAL (REACT 350)
ITEM 7738 TEMPORARY EARTH WALLS

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 SPECIFICATIONS FOR THIS PROJECT.

SPECIAL PROVISION
440---007
Reinforcing Steel

For this project, Item 440, "Reinforcing Steel," 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 440.2 Materials. The sixth paragraph is voided and replaced by the following:

The nominal size, area and weight of reinforcing steel bars covered by this specification are as follows:

English Bar Size Designation	Metric Bar Size Designation (*)	Nominal Diameter (in.)	Nominal Area (sq. in.)	Weight per Linear Foot
3	10	0.375	0.11	0.376
4	13	0.500	0.20	0.668
5	16	0.625	0.31	1.043
6	19	0.750	0.44	1.502
7	22	0.875	0.60	2.044
8	25	1.000	0.79	2.670
9	29	1.128	1.00	3.400
10	32	1.270	1.27	4.303
11	36	1.410	1.56	5.313
14	43	1.693	2.25	7.650
18	57	2.257	4.00	13.600

(*) Bars rolled with these metric bar sizes may be substituted for the corresponding English bar sizes shown in the plans.

Article 440.2. Materials, Subarticle (8) Epoxy Coating. The third sentence is voided and replaced by the following:

Sampling of epoxy powder shall be in accordance with Test Method Tex-738-I.

Article 440.2 Materials is supplemented by the following:

(9) When shown on the plans, stainless steel reinforcing steel shall be used and shall be in accordance with ASTM A955 and with the details shown on the plans.

Article 440.7. Mechanical Couplers, Subarticle (1) General, is voided and replaced by the following:

(1) General. When shown on the plans, mechanical splices may be made in the reinforcing steel bars using one of the following types:

Sleeve-Bolted

Sleeve-Filler
Sleeve-Threaded
Sleeve-Swaged
Sleeve-Wedge

All couplers furnished by the Contractor shall be produced by a prequalified manufacturer. Prequalification shall be in accordance with Departmental Material Specification D-9-4510. Sleeve-wedge type couplers will not be permitted on coated reinforcing.

Mechanical couplers shall be Class B in accordance with Departmental Material Specification D-9-4510 unless otherwise shown on the plans and shall be used only at locations shown on the plans. Mechanical couplers may be permitted in other locations provided the Contractor obtains written approval from the Design Division. Requests for such approval shall be submitted in writing to the Design Division, Texas Department of Transportation, 125 East 11th Street, Austin, Texas 78701-2483.

Mechanical couplers for reinforcing steel shall be of the same material as the reinforcing steel.

Article 440.8. Placing. The fifth paragraph is voided and replaced by the following:

All accessories such as tie wires, bar chairs, supports or clips used with stainless steel reinforcement shall be stainless steel or plastic. Stainless steel tie wires or plastic tie ends shall be closely trimmed after tying.