

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 2/25/2014

Control	2100-01-058
Project	STP 2014(535)
Highway	RM 2222
County	TRAVIS

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: STP 2014(535)

CONTROL: 2100-01-058

COUNTY: TRAVIS

LETTING: 03/06/2014

REFERENCE NO: 0224

PROPOSAL ADDENDUMS

PROPOSAL COVER

BID INSERTS (SH. NO.:

X GENERAL NOTES (SH. NO.: 2G

SPEC LIST (SH. NO.:

SPECIAL PROVISIONS:

ADDED:

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: SEE DESCRIPTION

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

ADDED GENERAL NOTES FOR ITEMS 3239 AND 3269 ON SHEET 2G.

GENERAL NOTES:

**RM 2222
From: 500' W. of Westslope Circle to LP 1 SBFR**

Basis of Estimate

210	Roll (Lt Pneu Tire) (Item 316)(One Course)	1 HR/6000 SY		
316	Underseal One Course Surface Treatment Asph (Tier I) Aggr (Tier I)	Total 0.30 GAL/SY 1 CY/165 SY	83,897 SY 83,897 SY 83,897 SY	25,169 GAL 508 CY
3239	TOM (1'')(ASPH)(PG 76-22)	7.9 LB/SY/IN	10,841 SY	43 TON
3239	TOM (1'')(AGGR)(SAC A)	102.1 LB/SY/IN	10,841 SY	553 TON
3267	D GR HMA (SQ) TY D SAC B PG 70-22	112 LB/SY/IN	3,600 SY	200 TON
3269	PFC (ASPH)(1'')(PG 76-22)	5.3 LB/SY/IN	73,056 SY	194 TON
3269	PFC (AGGR)(1'')(SAC A)	82.7 LB/SY/IN	73,056 SY	3,021 TON

**** For Informational Purposes Only**

References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved.

Do not place surface treatments or pavement when in the Engineer's professional judgment, the apparent general weather conditions are unsuitable for Overlay operations.

Remove and replace, at the Contractor's expense, and as directed, all defective work, which was caused by the Contractor's workforce, materials, or equipment.

Perform work during good weather unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

Accrue contract time charges through the Contractor's completion of the final punchlist.

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Meet weekly with the Engineer to notify him/her of planned work for the upcoming week. Provide a three-week "look ahead," as well as all work performed over the past week.

Blade the side slopes to remove all grass from the area of construction before placing flexible base on that portion of the roadway to be widened, leveled-up, seal coated/surfaced treated, or Hot Mix Asphaltic Concrete Pavement (HMACP) overlaid. Blade the sod back onto the side slopes after the proposed items of work have been completed. Consider subsidiary to pertinent Items.

Equip all construction equipment used in roadway work with a permanently mounted 360° revolving or strobe warning light with amber lens. Light will have a minimum lens height and diameter of 5 inches and mounting height of not less than 6 feet above the roadway surface and be visible from all sides. Attach at each side of the rear end of the construction equipment an approved orange warning flag mounted not less than 6 feet above the roadway surface.

Overhead and underground utilities may exist in the vicinity of the project. The exact location of underground utilities is not known.

If working near power lines, comply with the appropriate sections of Local Legal Requirements, Texas State Law, and Federal Regulations relating to the type of work involved.

Be aware that an Intelligent Transportation Systems (ITS) Infrastructure may exist within the limits of this project and that the system must remain operational throughout construction. The exact location of ITS Infrastructure is not known. Contact the TxDOT Area Engineer's or Inspection Team's Office for the location(s) at least 48 hours before commencing any work that might affect present ITS Infrastructure. Use caution if working in these areas to avoid damaging or interfering with existing facilities. Repair any damage to this system within 8 hours of occurrence at no cost to the Department. In the event of system damage, notify TxDOT/CTECC at (512) 974-0883 within one hour of occurrence. Failure of the Contractor to repair damage to any infrastructure that conveys any corridor information to TxDOT/CTECC will result in the Contractor being billed for the full cost of emergency repairs.

Superelevate all curves to conform to the slope(s) of the existing curves, as directed. Consider subsidiary to the pertinent Items.

Match existing cross slopes, as directed. Consider subsidiary to the pertinent Items.

Provide a smooth, clean sawcut along the existing asphalt pavement structure, as directed. Consider subsidiary to the pertinent Items.

Sweep and remove all litter on the right of way, within the project limits, to keep the jobsite in a neat and presentable condition at all times. Perform this work as directed.

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Remove all construction debris and surplus material generated by the construction work within the project limits. Perform this work as directed. Consider subsidiary to the pertinent Items.

Supply litter barrels in enough numbers at locations as directed to control litter within the project. Consider subsidiary to pertinent Items.

Use a self-contained vacuum broom to sweep the roadway and keep it free of sediment due to the Construction of the Roadway, as directed. Consider subsidiary to pertinent Items.

Protect all areas of the right of way, which are not included in the actual limits of the proposed construction areas, from destruction. Exercise care to prevent damage to trees, vegetation, and other natural surroundings. Areas not to be disturbed will be as directed. Restore any area disturbed because of the Contractor's operations to a condition as good as, or better than, before the beginning of work.

Damage to existing pipes and SET's due to Contractor operations shall be repaired at Contractor's expense.

All locations used for storing construction equipment, materials, and stockpiles of any type, within the right of way, will be as directed. Use of right of way for these purposes will be restricted to those locations where driver sight distance to businesses and side street intersections is not obstructed and at other locations where an unsightly appearance will not exist. The Contractor will not have exclusive use of right of way but will cooperate in the use of the right of way with the city/county and various public utility companies as required.

The Project Superintendent will be capable of speaking English and will be available on the project at all times when work is being performed, including subcontractor work. The Superintendent will be available and on-call 24 hours a day.

The latest roadway start-work date is July 15, 2014.

When directed, designate an official backer/spotter or "dump-man" who shall wear specially marked clothing and a specially marked hard hat which specifically identifies them as the backer/spotter and identifies that they are the person who is directing the backing operations. They shall be identified to all project personnel, Contractor and TxDOT, when dumping the various project materials, throughout the course of the project.

SW3P/WPAP notes

In the event that significant contamination is encountered based on odors, visual evidence, or vapor monitoring, immediately contact the Engineer in accordance with Item 4.3 of the General

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Provisions of the STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES. The Engineer may suspend work wholly or in part to determine the coordination/management for the testing, removal and disposal of hazardous materials that might be necessary according to all applicable rules, laws and regulations.

Unless otherwise approved, vehicles will not be maintained on-site during construction except at designated maintenance sites.

Transport any soils contaminated during construction of the proposed project from the site and properly dispose of off-site, off the recharge zone, and off any area draining to the recharge zone of the Edwards Aquifer.

Suspend all activities near any significant recharge features, such as sinkholes, caves, or any other subterranean openings that are discovered during construction or core sampling. Do not proceed until the Department geologist is present to evaluate. The discovery may require TCEQ review and approval for the methods proposed to protect the aquifer from any potential adverse impacts.

Locate above-ground storage tanks kept on-site for construction purposes over bermed impervious liners as to not allow any leakage into underlying soils. Additionally, the containment shall be sized to capture 150% of the total volume of fluids stored on-site within the storage area.

ITEM 4 – SCOPE OF WORK

Final cleanup will include the removal of excess material considered detrimental to vegetation growth along the front slope of the ditch. Materials such as surface aggregates and other materials, as specified by the Engineer, will be removed at the Contractor’s expense.

ITEM 5

Mark and maintain 100-foot station intervals for the duration of the project. Consider subsidiary to pertinent Items.

ITEM 6 - CONTROL OF MATERIALS

Article 6.5. Give a minimum of 24 hours of notice for materials, which require Inspection at the Plant.

ITEM 7

Article 7.19

The Contractor shall not initiate activities in a project specific location (PSL) associated with a U.S. Army Corps of Engineers (USACE) permit area that have not been previously evaluated by

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the USACE as part of the permit review of this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here means materials are delivered to or from the PSL. The permit area includes all waters of the U.S. or associated wetlands affected by activities associated with this project. Special restrictions may be required for such work. The Contractor shall be responsible for any and all consultations with the USACE regarding activities, including project specific locations (PSLs), that have not been previously evaluated by the USACE. The Contractor shall provide the Department with a copy of all consultations or approvals from the USACE before initiating activities.

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

- (1) Restricted Use of Materials for the Previously Evaluated Permit Areas.** The Contractor will document both the project specific location (PSL) and their authorization. The Contractor will maintain copies for review by the Department or any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project:

 - a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110 is used for permanent or temporary fill (Item 132, Embankment) within a USACE permit area;
 - b. Suitable embankment (Item 132) from within the USACE permit area is used as fill within a USACE evaluated area; and,
 - c. Unsuitable excavation or excess excavation [“Waste”] (Item 110) that is disposed of at an approved location within a USACE evaluated area.
- (2) Contractor Materials from Areas Other than Previously Evaluated Areas.** The Contractor will provide the Department with a copy of all USACE coordination or approvals before initiating any activities for an area within the project limits that has not been evaluated by the USACE or for any off right of way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites:

 - a. Item 132, Embankment, used for temporary or permanent fill within a USACE permit area; and,
 - b. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

The total area disturbed for this project is 0 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of

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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.

Migratory Birds

The Contractor's attention is directed to the fact that there is the possibility that migratory birds may be nesting within the project limits. Migratory bird nesting activity can be concentrated on roadway structures such as bridges and culverts. Remove all old migratory bird nests from any structures between September 1 and January 31, and while the nests are not occupied or being used by migratory birds. In addition, be prepared to prevent migratory birds from re-nesting between February 1 and August 31.

All methods used for the removal of old bird nests and the prevention of re-nesting must be approved by the Austin District Biologist, well in advance of the planned use.

In the event that any active nest of a migratory bird species is encountered on-site during project construction, all construction activity within the immediate vicinity of the nest will cease immediately. Contact the district biologist to determine how to proceed.

ITEM 8

Working days will be computed and charged in accordance with Article 8.3.A.4 Standard Workweek.

Article 8.3B

Work that interferes with traffic is required to be performed during off-peak hours, 8 pm until 5 am. Sunday night through Friday morning.

ITEM 9 – MEASUREMENT AND PAYMENT

Provide full-time, off-duty, uniformed, certified peace officers in officially marked police cruisers, as part of traffic control operations, as directed.

Show proof of certification by the Texas Commission on Law Enforcement Standards.

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No payment will be made for peace officers unless the Contractor completes the proper Department tracking form. Submit invoices that agree with the tracking form for payment at the end of each month, when approved services were provided. Request the tracking form from the Department.

No payment for officers used for moving equipment without prior written approval.

Cancel "Off-Duty" Peace Officers and their Motor Vehicle Units when the Scheduled lane closures are canceled. Failure to cancel the Off Duty Officers and their respective Motor Vehicle Units will not be cause for payment, by TxDOT, for "Show Up" time.

ITEM 300

Asphalt season starts May 1 and ends September 15.

ITEM 302 – AGGREGATES FOR SURFACE TREATMENTS

Previously tested aggregates delivered to the project, which are found to contain excessive quantities of dust (more than 0.5 percent passing the no. 40 sieve) during pre-coating, stockpiling or hauling operations, will be rejected, unless otherwise directed. Use test method Tex-200-F, Part II, for testing.

Article 302.2. Materials, Section A. Aggregate. Table 3 Los Angeles abrasion, % max, is revised with the following requirement:

Table 3
Aggregate Quality Requirements

Property	Test Method	Requirement	Requirement
Los Angeles abrasion, %, max	Tex-410-A	30	All aggregates

ITEM 316

Ensure the accuracy of the Distance Measuring Instrument (DMI) with the Engineer, prior to marking the Asphalt and Rock Land shots.

Ensure that all Surface Treatment/Seal Coat Operations are covered by HMA CP before the workers leave the project, for that particular day's work, as directed.

Ensure the minimum aggregate surface classification is class B.

Surface all transitions, tapers, climbing lanes and intersections to the limits as directed.

Distribution to each control section will be proportioned to the volumetric quantity as shown on the "daily road report."

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Any oil or asphaltic material being paid for on the project shall use tank strap method as shown in TXDOT Seal Coat and Surface Treatment Manual 2004-1

All transports will have a seal affixed at the point of origin. The Engineer will be present when the seal is broken on the Transport and will accept the shipping tickets and make distribution to the Contractor.

Use ionically compatible asphalt to precoat aggregate, which is compatible with the asphalt specified for each specific Surface Treatment.

ITEM 320

Material Transfer Device is required.

ITEM 351, SS 3239, SS3268 (HMACP Testing)

The Contractor must sample asphalt binder, in accordance to the applicable item. Label the sample can with the corresponding CSJ, lot, and subplot numbers.

Samples must be stored in a common area where they are readily available to the TxDOT representative at the plant. The Contractor will be responsible for supplying storage for all samples. Retain all asphalt samples until hot mix production is complete or directed otherwise.

When directed, the Contractor is responsible for disposal of all asphalt binder samples, in accordance to Local, State, and Federal regulations.

[Hot Mix Asphaltic Conc (HMAC) Core Holes]

Refill and compact all HMAC core holes to the same elevation as the adjacent roadway. Use hot mix of the type being used in the project to fill core holes. As an alternative a high performance cold patching mix such as Rapid Cure Patching Mix meeting the requirements of DMS-9203 or Medium Cure Patching mix made with SCM meeting requirements of DMS-9202. Consider this work subsidiary to the pertinent Items.

ITEM 351, SS 3239, SS3268

Transition from the new ACP to the existing surface tie-in by utilizing a required milled transition to a vertical butt joint. Make the transition a minimum of 50 feet H: 1 inch V slope ratio of newly placed ACP. Make the temporary joint, at the tie-in, a minimum of a “3-paper-taper” longitudinally and covering the entire width. Sawcut existing pavement as directed. Prior to milling, core the existing pavement to determine its thickness. Do not proceed with milling until directed. Consider this work subsidiary to the pertinent Items.

When surface irregularities, as defined in Article 341.4.I.3.c(5), “Irregularities”, are detected or measured, the Contractor must take immediate corrective action defined as the removal and replacement of a full lane width of the defective area using a paver to place new mix, unless otherwise directed. If there are multiple defective areas within a subplot, making up to 30% of the subplot by area, the Engineer will require the entire subplot be removed, unless directed otherwise.

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ITEM 3239, 3267, & 3269

Submit thermal and segregation profiles as well as longitudinal joint densities on electronic forms provided by TXDOT.

ITEM 351

Use aggregate that meets the SAC requirement of class B.
Dilution of tack coat is not allowed. Use tack coat/ asphalt binder type as directed by the Engineer.

Use ordinary compaction control instead of air void control.

ITEM 354

Remove the loose material from the roadway before underseal and overlay.

Taper planing at bridge ends as directed. Plane taper surfaces before placing HMAC to allow a minimum of 1-in. surface course to abut the bridge ends.

Taper transverse faces at ends of passes as directed.

The Contractor will retain ownership of planed materials.

ITEM 400

Cut pavements with the use of a saw as directed. Consider subsidiary to pertinent Items.

ITEM 502

Unless otherwise approved, no daytime closures (main lanes and frontage roads) will be allowed.

Nighttime lane closures will be allowed from 8:00 PM to 5:00 AM Sunday night thru Friday morning, unless otherwise shown on the plans.

The Area Engineer (AE) and The District's Director of Construction (DDC) will approve additional lane closures, prior to any work.

Maintain a written record of documentation of "The Additional Approved Lane Closures."

Notify the Inspector so that they can notify Combined Transportation, Emergency, and Communications Center (CTECC) / Public Affairs Office, prior to implementing any "Approved Lane Closure" for a State Highway or Roadway. Provide notice no later than 11:00 AM (Central

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Time) and at least 24 hours prior to the closure. If the closure is scheduled on a Monday, then it will be called in by 11:00 AM on Friday. If the notification time falls on a State Holiday, which TxDOT observes, then make the notification to the Inspector by 11:00 AM on the day prior to the State Holiday.

Also, provide “Advance Notice” of the Actual Lane Closure(s), on the Day (Night) of the Actual Lane Closure(s), to the TxDOT Inspector so that they can notify CTECC. Also, immediately upon removal of the Closure(s) provide notice to the TxDOT Inspector for them to notify CTECC.

Submit and secure concurrence, prior to the publication of any notices or placement of any traffic control devices for implementation of the traffic control plan, hereinafter called a Lane Closure Notice (LCN).

Prepare Public Information Notices, for release by the Department, in advance of the implementation of any LCN. Refer to these notices as Traffic Advisories (TA).

Present to TxDOT, an LCN for traffic control, which is proposed for implementation, a minimum of four (4) full working days preceding any proposed implementation date. Indicate the estimated date, time, duration, and location for the proposed work. Submit a written Traffic Control Plan (TCP) depicting exact traffic control device locations and referencing the appropriate plan sheet, TxDOT or TMUTCD standards, an operational description of the work to be performed, and the reason that traffic must be affected.

Present to TxDOT, LCN’s proposed for night work, a minimum of *seven (7)* full calendar days preceding any proposed implementation date.

Receive concurrence prior to LCN implementation.

Meet with the Engineer prior to roadway and lane closures to ensure that sufficient equipment, materials, devices, and workers will be used. Discuss contingency plans at that time. Consider inclement weather prior to implementing the lane closures.

Submit a Public Information Notice (TA), in an acceptable format, by noon, at least *two (2)* full working days preceding any work proposed in an LCN.

Submit a cancellation of TA, no later than noon on the day preceding the proposed work described in an LCN.

Coordinate Main Lane closures with adjacent projects. The first project to submit their lane closure information will have priority.

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Take immediate action to modify Closures / Traffic Control, if at any time backup (roadway queuing) becomes unreasonable (greater than 20 minutes). Have in place, a contingency plan of how this will occur.

Cancel Off-Duty Peace Officers and their Motor Vehicle Units when the Scheduled lane closures are canceled. Failure to cancel the Off Duty Officers and their respective Motor Vehicle Units will not be cause for payment, by TxDOT, for "Show Up" time.

Do not set up any lane closures when the weather, as indicated by National Oceanic and Atmospheric Administration (NOAA), shows a chance of rain of 40% or greater, unless otherwise directed.

Do not set up any Lane Closure / TCP when the pavement is wet prior to the "setup," unless otherwise directed.

Incorporate and maintain a 3H: 1V safety wedge into the proposed construction for any roadway edge of 2 inches or greater adjacent to a roadway under traffic.

Within the limits of the project, provide standard barricades, warning signs, delineators, lights, 28-inch cones, and flaggers in enough numbers and combinations, as directed.

Use a minimum of 2 flaggers, 2 advance warning flashing arrow panels (TY C), 2 of each signs CW20-5R or CW20-5L with appropriate distance plaques and CW9-2R or CW9-2L and 28-in. cones at each location in which milling or paving operations are in progress. Maintain at least 1 lane of traffic in each direction during paving or milling operations. Maintain at least the minimum numbers of lanes as directed.

Use night-work and same-night remove-and-replace operations.

No weekend closures will be allowed on the weekends, which include the following holidays: January 1, the last Monday in May, July 4, the first Monday in September, the fourth Thursday in November, December 25, Easter weekend, and the first working day before or after any of the aforementioned holidays.. Unless otherwise approved, no weekend closures will be allowed on the weekends of special events that could be impacted by the construction. Ensure all equipment, vehicles, workers, etc., associated with these closures are off the roadways and all lanes re-opened at least by noon of the Friday before these holidays and special events.

Place TY III Barricade 4 feet (min.), 8 feet (max.) or a minimum of 2 Barrels at each stockpile of material that is placed on the right of way and is located within 30 feet of the traveled way. See BC (10)-07 sheet for more details.

Use advance warning flashing arrow panels for the closing of traffic lanes. Furnish one stand-by unit, in good working condition at the jobsite, ready for immediate use.

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Maintain access to all streets and driveways at all times, unless otherwise approved. Consider subsidiary to the pertinent Items.

Furnish advisory speed signs in enough numbers as directed.

Maintain enough workers to revise traffic control as directed.

For each Lane Closure Set-up, provide a “Buffer Space” and Shadow Vehicle with Truck Mounted Attenuator (TMA), as directed.

Provide a “Downstream” Buffer Space for each lane closure, as directed.

Maintain construction-warning signs, which are needed for longer periods than what is shown on the traffic control plan or as directed. Consider subsidiary to the pertinent Items.

Cover or remove any existing sign(s), which conflict with temporary traffic control operations. Consider any costs associated with the temporary mounts subsidiary. Repair or replace any signs, which are damaged by the Contractor’s operations during construction or which are deemed not sufficient. The Engineer will be the sole judge of the adequacy of the sign(s). Consider this work subsidiary to the pertinent Items.

Repair barricades within 48 hours after barricade report has been delivered to the Contractor. Repair barricades to the satisfaction of the Engineer. Failure to comply will cause all work to cease.

Maintain Sandbags that are used for ballast, as directed. Consider subsidiary to the pertinent Items.

When placing detectors across the roadway, one lane in each direction will remain open at all times. Conduct all other construction operations to provide the least possible interference to traffic. Schedule work so that all lanes are open to traffic in the daytime, unless otherwise approved.

ITEM 504 - FIELD OFFICE LABORATORY

Furnish a Type D structure for the asphalt-mix control laboratory for the Engineer’s exclusive use. Ensure the floor has enough strength to support the testing equipment and has an impervious covering.

Ensure the Type D structure has adequate air conditioning and is 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. Make the cabinet a minimum of 3-feet wide by 2-feet deep

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by 3-feet high and make provisions for locking securely. Provide the structure with a 240-volt electrical service entrance. Provide a minimum of four 120-volt circuits with 20-amp breakers and at most two grounded convenience outlets per circuit and provisions for a minimum of two 220-volt ovens with vents to the outside. Provide a minimum of two convenience outlets per wall and a utility sink with an adequate clean potable water supply for testing. Space heaters for heating the structure are unacceptable. Provide support blocks and tie down portable structures for stability.

Provide an ignition oven for the use of Department to determine asphalt content in accordance to Tex-236-F. Provide other laboratory equipment as directed.

Provide to the Department and their representative a computer meeting the minimum specification requirements in DMS 10101 "Computer Equipment." Provide a color printer no older than 2 years old. The operation system must be Microsoft XP-SP2, unless directed otherwise. Provide DSL or better internet service. Computer must have at least two front USB ports. Consider subsidiary to pertinent Items.

Provide a permanent, fully equipped, indoor restroom, with toilet and running water as a part of the Type D structure, unless approved otherwise. Provide a monthly drinking water cooler with hot & cold taps and a monthly drinking water service, unless approved otherwise. Consider subsidiary to the pertinent Items.

Equivalent structures may be substituted for those specified under this Item, as agreed. The agreement must be in writing.

Maintain and/or repair any structure or equipment contained herein. Consider subsidiary to the pertinent Items.

ITEM 585

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 & 620 - CONDUIT & ELECTRICAL CONDUCTORS

For electrical licensing and electrical certification requirements see Item 7 of the current Standard Specification book and any applicable Special Provisions to Item 7.

ITEM 662

Place temporary pavement markings each night, as directed. Temporary flexible-reflective tabs are allowed as temporary pavement marking on the various roadways.

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Remove work zone pavement markings within 48 hours after permanent striping has been completed.

Foil backed pavement markings will not be allowed.

ITEM 666

Apply Type I ReflectORIZED Pavement Markings at least 14 days after applying the final course of HMAC.

Reference existing channel islands, gores, and lane striping before commencing work. Provide referencing that will include a sketch of the layout to the Engineer. Obtain approval for placement of guidemarks from the Engineer before installing any permanent pavement markings. Consider subsidiary to the pertinent Items.

ITEM 672

Use bituminous adhesive to bond all raised pavement markers to the pavement.

Place the bituminous adhesive at a temperature range of 380°F to 390°F. Place the pavement marker on the bituminous adhesive approximately 20 seconds after the adhesive is placed on the pavement. Ensure the pavement marker rests solely on the adhesive and not the pavement surface. Ensure that a minimum of 1/8 in. layer of bituminous adhesive remains between the pavement marker and the pavement surface.

Apply raised pavement markers at least 7 days after applying the final course of HMAC.

Use 80-ft spacing for raised pavement markers for the broken white stripe (lane lines) unless otherwise approved.

ITEM 677

Remove and dispose of, off the right of way, any existing raised pavement markings before beginning surfacing operations. Remove the existing traffic buttons and pavement markers daily as work progresses and as directed. Consider subsidiary to the pertinent Item.

ITEM 688

Test all loops in accordance with the FHWA loop detector handbook.

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ITEM 1122

Obtain the Engineer's approval for proposed methods used for erosion control before starting each phase of construction.

Consider the SW3P for this project to consist of the following items as directed:

Temporary Sediment Control Fence

SS 3239 – Thin Overlay Mixture (TOM)

Provide 1 inches of TOM using PG binder 76-22 for surface course.

Use aggregate meeting a Surface Aggregate Classification (SAC) requirement of "A" for surface course mixtures. Blending SAC "B" aggregate is prohibited, unless otherwise approved.

A Warm Mix Asphalt additive is required with a discharge temperature greater than 300° F when the haul distance from the plant to the project is greater than 40 miles or the ambient temperature is between 60-70° F, unless otherwise directed. WMA processes, such as water or foaming processes, are not allowed under these circumstances

Tack coat or underseal is required for the use of this overlay mixture.

Use of pneumatic-tire rollers is prohibited.

Water flow rate should exceed 60 seconds tested in accordance to Tex-246-F. The Engineer will require the Contractor to perform water flow rate testing at least once per lot.

SS 3269 - Permeable Friction Course

Provide 1 inches of PFC-F using PG binder 76-22 for surface course.

Use of RAP or RAS is prohibited for surface courses.

Use aggregate meeting a Surface Aggregate Classification (SAC) requirement of "A" for surface course mixtures. Blending SAC "B" aggregate is prohibited, unless otherwise approved.

Water flow rate should not exceed 20 seconds tested in accordance to Tex-246-F. The Engineer will require the Contractor to perform water flow rate testing at least once per lot.

County: TRAVIS

Control: 2100-01-058

Highway: RM 2222

ITEM 6834

Provide electronic portable changeable message signs as part of the traffic control operations. Provide backups and keep operational and available on the jobsite at all times during traffic control operations.

Place Portable Changeable Message Signs at locations requiring lane closures for one-week prior to the closures, or as directed. Obtain approval for the actual message that will appear on the boards. If more than two phases of a message are required per board, then provide additional PCMS's to meet the two-phases-per-board requirement.