

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 1/29/2014

Control	6264-95-001
Project	RMC - 626495001
Highway	US0281
County	BLANCO

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: RMC - 626495001

CONTROL: 6264-95-001

COUNTY: BLANCO

LETTING: 02/04/2014

REFERENCE NO: 0129

PROPOSAL ADDENDUMS

PROPOSAL COVER

BID INSERTS (SH. NO.: 3-3)

GENERAL NOTES (SH. NO.: SHEETS A - M)

SPEC LIST (SH. NO.:)

SPECIAL PROVISIONS:

ADDED:

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

OTHER:

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

ADDED ALTERNATE BID ITEM 3271-2030.

REVISED GENERAL NOTES.

REPLACED PLAN SHEETS 2-2E WITH SHEETS 2-2F.

REVISED & REPLACED PLAN SHEETS 3,4,7 & 8.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	354	2043		PLANE ASPH CONC PAV (1") and DOLLARS CENTS	SY	68,884.000	1
	500	2001	011	MOBILIZATION and DOLLARS CENTS	LS	1.000	2
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING and DOLLARS CENTS	MO	3.000	3
	531	2006		CURB RAMPS (TY 2) and DOLLARS CENTS	EA	1.000	4
	531	2017		CURB RAMPS (TY 21) and DOLLARS CENTS	EA	1.000	5
	531	2029		CONC SIDEWALKS (5") and DOLLARS CENTS	LF	30.000	6
	531	2040		CURB RAMPS (TY 5) and DOLLARS CENTS	EA	1.000	7
	531	2041		CURB RAMPS (TY 10) and DOLLARS CENTS	EA	20.000	8
	662	2113		WK ZN PAV MRK SHT TERM (TAB) TY W and DOLLARS CENTS	EA	899.000	9
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 and DOLLARS CENTS	EA	2,524.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2003		REFL PAV MRK TY I (W) 4" (BRK)(100MIL) DOLLARS and CENTS	LF	2,878.000	11
	666	2012		REFL PAV MRK TY I (W) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	5,410.000	12
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	845.000	13
	666	2042		REFL PAV MRK TY I (W) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	546.000	14
	666	2048		REFL PAV MRK TY I (W) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	472.000	15
	666	2054		REFL PAV MRK TY I (W) (ARROW) (100MIL) DOLLARS and CENTS	EA	7.000	16
	666	2096		REFL PAV MRK TY I (W) (WORD) (100MIL) DOLLARS and CENTS	EA	5.000	17
	666	2105		REFL PAV MRK TY I (Y) 4" (BRK)(100MIL) DOLLARS and CENTS	LF	4,800.000	18
	666	2111		REFL PAV MRK TY I (Y) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	21,456.000	19
	672	2012	034	REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	186.000	20
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	594.000	21

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	1122	2037	001	TEMPORARY SEDIMENT CONTROL FENCE INSTLL and DOLLARS CENTS	LF	200.000	22
	1122	2057	001	TEMPORARY SEDIMENT CONTROL FENCE REMOVE and DOLLARS CENTS	LF	200.000	23
	3233	2001		MEMBRANE UNDERSEAL and DOLLARS CENTS	GAL	17,222.000	24
1	3239	2001		TOM (ASPHALT) PG 76-22 and DOLLARS CENTS	TON	272.000	25
1	3239	2004		TOM (AGGREGATE) SAC B and DOLLARS CENTS	TON	3,516.000	26
				ALTERNATE NO. 1A and DOLLARS CENTS			
	3271	2030		STONE-MTRX-ASPH SMA-F SAC-B PG76-22 and DOLLARS CENTS	TON	3,788.000	27

**Basis of Estimate
US 281 – RMC 6264-95-001
Blanco, County**

Item	Description	**Rate	Basis	Quantity
3233	Membrane Underseal	<u>Total</u> 0.25 GAL/SY	43,338 SY	10,835 GAL
3239	TOM (Asphalt) PG 76-22 (Aggregate) SAC B	7.9 LBS/SY/IN 102.1 LBS/SY/IN	43,338 SY 43,338 SY	171 TON 2,212 TON
3271	STONE-MTRX=ASPH SMA-F SAC-B PG76-22	<u>Total</u> 110 LBS/SY/IN	43,338 SY	2,383 TON

** For Informational Purposes Only

**Basis of Estimate
RM 963 – RMC 6264-95-001
Burnet, County**

Item	Description	**Rate	Basis	Quantity
3233	Membrane Underseal	<u>Total</u> 0.25 GAL/SY	25,546 SY	6,387 GAL
3239	TOM (Asphalt) PG 76-22 (Aggregate) SAC B	7.9 LBS/SY/IN 102.1 LBS/SY/IN	25,546 SY 25,546 SY	101 TON 1,304 TON
3271	STONE-MTRX=ASPH SMA-F SAC-B PG76-22	<u>Total</u> 110 LBS/SY/IN	25,546 SY	1,405 TON

** For Informational Purposes Only

GENERAL

This contract shall commence upon the issuance of a work order by the Engineer and shall continue for 51 working days unless contract funds are expended first.

Work must begin within seven (7) calendar days after such notification.

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

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.

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

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.

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

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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.

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.

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

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.

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.

During evacuation periods for emergencies the Contractor will cooperate with Department requirements for the restricting of Lane Closures and arranging for Traffic Control to facilitate Emergency Evacuation Efforts. In addition, the Contractor's assistance may be requested outside of the Project Limits.

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.

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The Contractor will be required to prepare the stockpile locations before the aggregate is to be placed. Stockpiling should not be situated such that roadway drainage will cause the aggregate to remain excessively wet. Blade the stockpile locations to remove grass and debris from the area. Blade the sod back onto the stockpile area after the excess aggregate has been removed and all proposed items of work have been completed. Contractor is to retain ownership of excess aggregate. Consider subsidiary to pertinent Items.

Storm Water Pollution Prevention Plan (SW3P)

Maintain vehicles at designated maintenance sites, unless otherwise approved.

Restrict construction vehicles from traversing or utilizing existing roadways, unprotected construction areas, and areas with vegetative cover.

Transport any soils contaminated during construction off of the proposed project, away from the site, and properly dispose of off-site.

Collect wastewater generated on-site by chemical toilets, transport and dispose of off-site, in a proper manner.

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

For all work over or near Bodies of Water (Lakes, Rivers, Ponds, Creeks, etc.):

Keep on hand Synthetic Absorbent Booms (Petroleum Sorbent Booms, Petroleum Socks, Absorbant Socks, etc.) and Absorbent Pads (Eversoak Sorbents, Industrial Absorbent Pads, Calicorp Absorbent Pads, etc.), both types, for spilled petroleum products, in enough quantity to mitigate a petroleum-type spill due to Contract work.

ITEM 4 – SCOPE OF WORK

Final clean up 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 6 - CONTROL OF MATERIALS

Article 6.5

Give a minimum of 24 hours notice for materials, which require inspection at the plant.

ITEM 7 – LEGAL RELATIONS AND RESPONSIBILITIES

Upon completion of all work provided for in the contract for any individual project, the Engineer will make an inspection, and if the work is found satisfactory the Contractor will be released from further maintenance on that project. Such partial acceptance will be made in writing and shall in no way void or alter any items of the contract.

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Do not park equipment or make stockpiles where driver sight distance to businesses and side street intersections is obstructed, especially after work hours. If it is necessary to park where drivers' views are blocked, make every effort to flag traffic accordingly. Give the travelling public first priority.

ITEM 8: PROSECUTION AND PROGRESS

Before starting work, provide a sequence of work and estimated progress schedule meeting the requirements of Section 8.2.B, "Construction Contracts."

ITEM 300 – ASPHALTS, OILS, AND EMULSIONS

Asphalt season starts May 1 and ends September 15.

ITEM 300 – TACK COAT

Apply non-tracking tack coat at 0.06-0.08 GAL/SY (residual).

Furnish non-tracking tack coat for SS 3239 Thin Overlay Mixtures (TOM) or SS 3271 Stone Matrix Asphalt (SMA-F) meeting the following requirements:

**Table 2
Non-Tracking Tack Coat Emulsion**

Property	Test Procedure	Quick Setting	
		QS-1HH	
		Min	Max
Viscosity, Saybolt Furol, 77° F,sec	T 72	15	--
Storage stability, 1 Day, %	T 59	--	1
Settlement, 5-day, %	T 59	2	5
Sieve test, %	T 59	--	0.30
Distillation test: ¹	T 59		
Residue by distillation, % by wt.		50	--
Oil distillate, by volume of emulsion		--	1.0
Test on residue from distillation:			
Penetration, 77°F, 100 g, 5 sec.	T 49	--	20
Solubility in trichloroethylene, %	T 44	97.5	--
Softening point, °F	T 53	150	
Dynamic shear, G*/sin(δ), 82°C, 10 rad/s, kPa	T 315	1.0	--

1. Spray a test strip of tack coat at a location on or near the project as directed. Consult the manufacturer for the recommended application rate. Allow the strip to cure for the maximum time specified. Drive over the test strip with equipment to simulate the effect of paving equipment. There should be no evidence tracking or picking up of the tack coat on the wheels of the equipment.

2. Exception to AASHTO T-59: Bring the temperature on the lower thermometer slowly to 350°F ± 10°F. Maintain at this temperature for 20 min. Complete total distillation in 60 ± 5 min. from first application of heat.

**Table 3
Non-Tracking Tack Coat Emulsion**

Property	Test Procedure	Quick Setting	
		CQS-1HT	
		Min	Max
Viscosity, Saybolt Furol, 122° F,sec	T 72	15	100
Storage stability, 1 Day, %	T 59	--	1
Sieve test, %	T 59	--	0.10
Particle Charge Test	T59	Positive	
Track free time ¹ , minutes	Test Strip	--	30
Distillation test: ²	T 59		
Residue by distillation, % by wt.		58	--
Test on residue from distillation: Penetration, 77°F, 100 g, 5 sec.	T 49	40	90

1. Spray a test strip of tack coat at a location on or near the project as directed. Consult the manufacturer for the recommended application rate. Allow the strip to cure for the maximum time specified. Drive over the test strip with equipment to simulate the effect of paving equipment. There should be no evidence tracking or picking up of the tack coat on the wheels of the equipment.

2. Exception to AASHTO T-59: Bring the temperature on the lower thermometer slowly to 350°F ± 10°F. Maintain at this temperature for 20 min. Complete total distillation in 60 ± 5 min. from first application of heat.

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

When TY E is provided, furnish coarse fractionated recycled asphalt pavement (CF-RAP). CF-RAP aggregate stockpiles must be approved on a stockpile-by-stockpile basis, unless approved by the Engineer. Do not exceed stockpiles greater than 2000 tons.

Furnish CF-RAP meeting the following aggregate quality requirements:

Property	Test Method	Requirement	Remarks
Deleterious Material, % max.	Tex-217-F, Part 1	2.0	
Decantation, % max.	Tex-406-A	1.5	

Furnish CF-RAP meeting the following gradation requirements, after ignition burn off of pre-existing asphalt, unless otherwise approved:

Sieve	Cumulative % Retained
5/8"	0
1/2"	10-25
3/8"	60-80
#4	85-100
#8	90-100

ITEM 354 - PLANING AND TEXTURING PAVEMENT

Mill, Seal and Overlay operations will be completed as one operation.

Remove the loose material from the roadway before opening to traffic.

Accomplish a 2-inch depth of planing and texturing in two passes. A single cut will be permitted if at most a 1¼-inch vertical offset is created against adjacent lanes when opened to traffic at the end of a work period.

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

Taper transverse faces at ends of passes as directed.

Make Transverse Tapers on each end of each pass using a minimum slope rate of 50 feet H to 1 inch V.

ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING

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.

One way Traffic Control will not be paid for directly, but shall be considered subsidiary to the pertinent Items of the contract.

Coordinate Main Lane closures with adjacent projects.

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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.

Utilize Shadow Vehicle with Truck Mounted Attenuator for setup and removal of each lane closure.

Do not set up any Lane Closure / TCP when the pavement is wet prior to the "setup," unless otherwise directed. Revise Traffic Control, when inclement weather is imminent, as 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.

No 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 working day prior to or immediately after any of the aforementioned holidays. Unless otherwise approved, no 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.

One lane will remain open, in each direction, at all times, in the four lane section and one lane will remain open, at all times, in the two lane section unless otherwise shown on the plans or as approved by the AE.

Maintain a minimum of 1 through lane(s) in each direction, during the daylight hours, as directed.

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.

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.

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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 ($\approx 100'$ per lane with devices spaced at $\approx 20'$) for each lane closure setup, 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. Install all permanent signs, delineation, and object markers necessary for the operation of any roadway before opening that section of roadway to traffic, regardless of the phase during which the roadway construction occurs. Erect the signs on temporary mounts until the permanent mounts are installed. 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.

Secure a 28-inch cone on top of any foundations that have protruding studs during construction. The cones will meet the specifications listed on BC (10)–13. In addition, they will be reflectorized, as described. All labor and materials will be considered subsidiary to the pertinent Items.

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

The AE is the authority to approve additional lane closures, prior to any work.

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

One lane will remain open, in each direction, at all times, unless otherwise shown on the plans or as approved by the AE.

ITEM 504 - FIELD OFFICE AND LABORATORY

Asphaltic Material Testing Facility

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

ITEM 662, 666, & 672

Notify the Engineer at least 24 hours in advance of removing existing striping and placing pavement markings & markers.

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

Unless the new striping design differs from the existing striping location, place the new striping to match existing striping.

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ITEM 662 - WORK ZONE PAVEMENT MARKINGS

Place temporary pavement markings each night, as directed.

If Temporary Flexible Reflective Tabs are allowed replace any missing tabs daily. If tabs are used, replace tabs at the Contractor's expense.

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

Foil backed pavement markings will not be allowed.

ITEM 666 - REFLECTORIZED PAVEMENT MARKINGS

Apply Type I ReflectORIZED Pavement Markings no sooner than 14 days after applying the final course of HMA, unless otherwise directed.

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.

Refer to Article 2.C.1. Glass Traffic Beads, Type I Markings. Furnish a double drop of Type II and Type III drop on glass beads where each type of bead is applied separately in equal portions (by weight). When furnishing a double-drop system, apply the Type III beads before applying the Type II beads.

ITEM 672 - RAISED PAVEMENT MARKERS

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.

ITEM 677 - ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS

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 Items.

Grinding is not an acceptable method of stripe removal.

ITEM 1122 - TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

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

Temporary Sediment Control Fence

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ITEM 354, SS 3239 & SS 3271

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.

ITEM SS 3239 & SS 3271 (HMACP Testing)

[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 SS 3239 – THIN OVERLAY MIXTURE (TOM)

Provide PG 76-22 binder.

Placement mixture at the compacted lift thickness of 1 inch.

Use aggregate meeting a Surface Aggregate Classification (SAC) requirement of B for surface course mixtures.

A Warm Mix Asphalt Additive is required with a discharge temperature greater than 275°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.

Tackless tack coat or membrane underseal is required for the use of this overlay mixture.

Use of pneumatic-tire roller is prohibited.

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

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

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

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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.

ITEM 3271 - STONE-MATRIX ASPHALT (SMA)

Provide PG 76-22 binder.

Placement mixture at the compacted lift thickness of 1 inch.

Use aggregate meeting a Surface Aggregate Classification (SAC) requirement of B for surface course mixtures.

Target laboratory molded density is 96.5% for TGC mixture designs.

A Warm Mix Asphalt Additive is required with a discharge temperature greater than 275°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.

Tackless tack coat or membrane underseal is required for the use of this overlay mixture.

Use of pneumatic-tire roller is prohibited.

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

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

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

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

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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.

Plans may be reviewed at the Burnet Area Office of the Texas Department of Transportation, 3029 E. SH 29, Burnet, TX 78753. The contact person is Louis C. Hernandez at 512-715-5722.