

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 3/30/2016

Control	1494-03-001
Project	C 1494-3-1
Highway	FM 3486
County	KAUFMAN

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: C 1494-3-1

CONTROL: 1494-03-001

COUNTY: KAUFMAN

LETTING: 04/06/2016

REFERENCE NO: 0330

PROPOSAL ADDENDUMS

-
- PROPOSAL COVER
 - BID INSERTS (SH. NO.: 1-6)
 - GENERAL NOTES (SH. NO.: A,B,E)

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

 - DELETED:

 - SPECIAL SPECIFICATIONS:
 - ADDED:

 - DELETED:

 - OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

***** BID INSERTS *****

SHEET 1-6:
162-6002 REVISED QUANTITY
164-6035 ADDED
164-6051 DELETED

***** GENERAL NOTES *****

SHEETS A THRU K MAY HAVE SHIFTED DUE TO GENERAL NOTES REVISIONS

SHEET A: REVISED TABLE 2, ITEM 162, ITEM 164, AND ITEM 168

SHEET B: DELETED TABLE 3, ITEM 164, ITEM 166, AND ITEM 168

SHEET E: REVISED ITEM 247

***** PLAN SHEETS *****

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

THE FOLLOWING SHEETS HAVE BEEN REPLACED.
2, 6-12, 17, 19, 28, 29, 187-193

THE FOLLOWING SHEET HAS BEEN REMOVED.
30

THE FOLLOWING SHEETS HAVE BEEN ADDED.
42A-42G

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	6002		PREPARING ROW DOLLARS and CENTS	STA	131.600	1
	104	6017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	18.000	2
	105	6049		REMOVING STAB BASE & ASPH PAV (4"-22") DOLLARS and CENTS	SY	311.000	3
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	30,923.000	4
	132	6006		EMBANKMENT (FINAL)(DENS CONT)(TY C) DOLLARS and CENTS	CY	27,721.000	5
	161	6017		COMPOST MANUF TOPSOIL (4") DOLLARS and CENTS	SY	126,763.000	6
	162	6002		BLOCK SODDING DOLLARS and CENTS	SY	367.000	7
	164	6035		DRILL SEEDING (PERM) (RURAL) (CLAY) DOLLARS and CENTS	SY	126,763.000	8
	168	6001		VEGETATIVE WATERING DOLLARS and CENTS	MG	1,413.000	9
	247	6053		FL BS (CMP IN PLC)(TYD GR1-2)(FNAL POS) DOLLARS and CENTS	CY	26,908.000	10
	260	6016		LIME (HYD, COM, OR QK(SLURRY)) DOLLARS and CENTS	TON	1,021.800	11
	260	6027		LIME TRT (EXST MATL)(8") DOLLARS and CENTS	SY	53,814.000	12

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	310	6009		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	10,763.000	13
	316	6024		ASPH (CRS-2P) DOLLARS and CENTS	GAL	8,969.000	14
	316	6029		ASPH (RC-250) DOLLARS and CENTS	GAL	5,023.000	15
	316	6403		AGGR (TY-B GR-5 OR TY-L GR-5) DOLLARS and CENTS	CY	143.500	16
	316	6419		ASPH (AC-15P, AC-20-5TR OR AC-20XP) DOLLARS and CENTS	GAL	7,534.000	17
	316	6440		AGGR (TY-B GR-3 OR TY-L GR-3)(SAC-B) DOLLARS and CENTS	CY	341.600	18
	341	6022		D-GR HMA TY-C PG64-22 DOLLARS and CENTS	TON	5,270.700	19
	401	6001		FLOWABLE BACKFILL DOLLARS and CENTS	CY	100.000	20
	402	6001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	206.000	21
	432	6002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	40.000	22
	432	6031		RIPRAP (STONE PROTECTION)(12 IN) DOLLARS and CENTS	CY	80.000	23
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	23.000	24

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	462	6004		CONC BOX CULV (4 FT X 3 FT) DOLLARS and CENTS	LF	544.000	25
	462	6009		CONC BOX CULV (5 FT X 5 FT) DOLLARS and CENTS	LF	126.000	26
	462	6020		CONC BOX CULV (8 FT X 5 FT) DOLLARS and CENTS	LF	120.000	27
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	998.000	28
	464	6007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	202.000	29
	466	6154		WINGWALL (FW - 0) (HW=7 FT) DOLLARS and CENTS	EA	2.000	30
	466	6180		WINGWALL (PW - 1) (HW=5 FT) DOLLARS and CENTS	EA	10.000	31
	466	6182		WINGWALL (PW - 1) (HW=7 FT) DOLLARS and CENTS	EA	2.000	32
	467	6395		SET (TY II) (24 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	58.000	33
	467	6422		SET (TY II) (30 IN) (RCP) (6: 1) (C) DOLLARS and CENTS	EA	2.000	34
	496	6004		REMOV STR (SET) DOLLARS and CENTS	EA	2.000	35
	496	6005		REMOV STR (WINGWALL) DOLLARS and CENTS	EA	1.000	36

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	496	6007		REMOV STR (PIPE) DOLLARS and CENTS	LF	708.000	37
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	38
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	8.000	39
	506	6002	003	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	960.000	40
	506	6011	003	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	960.000	41
	506	6020	003	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	312.000	42
	506	6024	003	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	312.000	43
	506	6038	003	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	25,617.000	44
	506	6039	003	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	25,617.000	45
	530	6004		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	105.000	46
	530	6005		DRIVEWAYS (ACP) DOLLARS and CENTS	SY	2,637.000	47
	530	6008		TURNOUTS (ACP) DOLLARS and CENTS	SY	56.000	48

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	540	6001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	525.000	49
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	4.000	50
	560	6011		MAILBOX INSTALL-S (TWW-POST) TY 4 DOLLARS and CENTS	EA	2.000	51
	560	6012		MAILBOX INSTALL-D (TWW-POST) TY 4 DOLLARS and CENTS	EA	1.000	52
	560	6013		MAILBOX INSTALL-M (TWW-POST) TY 4 DOLLARS and CENTS	EA	1.000	53
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	19.000	54
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	1.000	55
	644	6007		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	1.000	56
	644	6033		IN SM RD SN SUP&AM TYS80(1)SA(U) DOLLARS and CENTS	EA	2.000	57
	644	6036		IN SM RD SN SUP&AM TYS80(1)SA(U-BM) DOLLARS and CENTS	EA	1.000	58
	658	6049		INSTL OM ASSM (OM-2Z)(FLX)GND(BI) DOLLARS and CENTS	EA	25.000	59
	658	6062		INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI) DOLLARS and CENTS	EA	12.000	60

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6048		REFL PAV MRK TY I (W)24"(SLD)(100MIL) DOLLARS and CENTS	LF	115.000	61
	666	6303		RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	26,526.000	62
	666	6312		RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL) DOLLARS and CENTS	LF	3,286.000	63
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	162.000	64
	730	6002		FULL - WIDTH MOWING DOLLARS and CENTS	AC	79.000	65
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	2.000	66

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SPECIFICATION DATA

Table 1: Soil Constants Requirements				
Item	Description	Plasticity Index		Note
		Max	Min	
132	Embk(DC)(Type C)	40	8	1

Note 1: Material excavated from the project must meet the PI requirements when used in the top 10 feet of embankment that supports the pavement structure or other locations shown in the plans. Do not use shale and obtain approval to incorporate shaley clay produced by the construction project.

Table 2: Basis of Estimate for Permanent Construction					
Item	Description	Thickness	Rate		Quantity
161	Compost Manuf Topsoil				126,763 SY
162	Block Sod	N/A			367 SY
164	Drill Seed (Perm)(R)(C)	N/A			126,763 SY
166*	Fertilizer (12-6-6)	N/A	500	Lb/Ac	6.5 Ton
168	Vegetative Watering (Warm)**	N/A	1	MG/Ac/Day	1,413 MG
247	Flex Base	18"			26,908 CY
260	Hydrated Lime (slurry) or Commercial Lime Slurry or Quick Lime (slurry)			6% by wt	1021.8 Ton
310	Prime Coat (MC-30)	N/A	0.2	Gal/SY	10,763 Gal
316	Asphalt (CRS2-P)	N/A	0.50	Gal/SY	8,969 Gal
316	Asphalt (AC20-5TR,AC20-XP,AC15-P)	N/A	0.42	Gal/SY	7,534 Gal
316	Asphalt (RC-250)	N/A	0.28	Gal/SY	5,023 Gal
316	Aggr (TY-B/L GR-5)	N/A	1:105	CY/SY	143.5 CY
316	Aggr (TY-B/L GR-3)(SAC-B)	N/A	1:125	CY/SY	341.6 CY
341	Hot Mix Asphalt (Ty C)	2"	110	Lbs/SY/In	5,270.7 Ton

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* For contractor's information only

**Adjust for actual field conditions/temperatures as necessary. See Vegetation Establishment Plan Sheet for estimated daily rates.

Note: (1) Base material weight based on 1.50 Ton/CY (dry- compacted)
 (2) Asphalt weight based on 110 Lbs/SY/In
 (3) Subgrade weight based on _1.42_Ton/CY (dry-compacted)

GENERAL

The construction, operation and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

The disturbed area for this project, as shown on the plans is 36.25 acres. However, the Total Disturbed Area (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

Prior to contract letting, bidders may request electronic earthwork information by email.

Email: Brenda.Callaway@txdot.gov

Earthwork files will be provided by email or by using TxDOT's Dropbox FTP Service.

Bidders may also obtain a free electronic copy that contains earthwork information from the engineer's office. Paper copies of cross-sections may be produced by using the provided free diskette at the bidders' expense and at copying companies. This data is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the enclosed data with appropriate plans, specifications and estimate for the project(s).

Leave all right of way areas undisturbed until actual construction is to be performed in said areas.

The following standard detail sheet has been modified:

FW-0 Modified Wingwall Details

All items described in the plans that have not been identified in the proposal as separate bid items or otherwise identified for payment are subsidiary. The work performed, materials furnished, equipment, labor, tools, and incidentals will not be measured or paid directly, but will be subsidiary to various bid Items.

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Item 2:

Submit pre-letting questions, by email only, to the attention of Area Engineer or Assistant Area Engineer.

Area Engineer's Email: Jeffrey.Bush@txdot.gov

Assistant Area Engineer's Email: Brenda.Callaway@txdot.gov

Answers will be provided by email.

In addition, an electronic file containing pre-letting questions and answers will be uploaded to the following site that can be downloaded by using the Login Name and Password as follows:

Website Address: <ftp://kaufman-ao-ro@ftp.txdot.gov>

Login Name: Kaufman-ao-ro

Password: L26B29

Item 5:

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way on this project. For signal, illumination, surveillance, and communications & control maintained by TxDOT, call the TxDOT Traffic Signal Office (214-320-6682) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Landscape Office (214-320-6636) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages when utilities are damaged due to Contractor's negligence including, but not limited to, repair or replacement at the Contractor's expense.

For the project to be deemed complete, permanently stabilize all unpaved disturbed areas of the project with a vegetative cover at a minimum of 70% density for the control of erosion.

Item 7:

Repair or replace any structures and utilities that might have been damaged by negligence or a failure to have utility locates performed.

Perform all electrical work in accordance with the National Electrical Code and Texas Department of Transportation Specifications.

Consult with appropriate electric company representatives according to their respective area to coordinate electrical services installations.

Item 8:

This Project will be a Five-Day Workweek in accordance with Article 8.3.1.1.

Nighttime work is allowed in accordance with Article 8.3.3.

Meet weekly with the engineer to notify him or her of planned work for the upcoming week.

Provide the engineer with a daily work schedule of planned work.

Submit CPM schedule in P3 or P6 format.

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Item 100:

Remove the existing roadway small signs, delineators and object markers as shown on the plans, or as directed, during construction within the right of way. Small sign, delineator and object marker removals are subsidiary to this Item. Preserve trees within the right of way that do not obstruct construction.

The limits of preparing right of way will be measured from Sta. 100+00.00 to Sta. 231+60 .00 along the centerline of construction.

Item 104:

In those areas where the pavement is not to be overlaid, provide a smooth surface after the curb removal. Planing or grinding is considered an acceptable method at these locations. Measurement and payment is in accordance with this item.

Items 105, 251, 305, and 354:

Saw existing asphalt along neat lines where portions are to be left in place temporarily or permanently. Sawing is not paid for directly, but is subsidiary to this item.

Item 105:

Take possession of recycled asphalt pavement from the project and recycle the material.

Properly dispose of unsalvageable material at your own expense.

Item 110:

Excavated shale is not an acceptable material for embankment.

Items 110 and 132:

Scarify and loosen the excavated areas, unpaved surface areas, except rock, to a depth of at least 8 inches and compact in accordance with the specifications.

Excavation and embankment for driveways, sleeper slabs, alleys and intersections will not be paid for directly, but will be considered subsidiary to these items.

Item 132:

Excavated material from the project site has not been determined to be suitable for embankment. The bidder assumes all risk for the use of excavated materials for embankment and is expected to meet all material requirements for embankment regardless of the source.

Perform Tex-106-E (Plasticity Index) by an approved laboratory on excavated soils from sources outside right of way when used in roadway embankment. Provide the test results at no expense to the department. The engineer will sample and test soils produced by the construction project for specification requirements or material sources specified in the plans.

Earth embankment Type C, is mainly composed of material other than shale. Furnish material that is free from vegetation or other objectionable material and that conforms to the requirements of Table 1 (Sheet B). If necessary, treat material with lime slurry in accordance with Item 260, "Lime Treatment (Road-Mixed)" in order to meet these requirements. Use Tex-121-E, figure 1, page 4 to calculate the amount of lime required. When lime treated subgrade is specified, 3000 PPM is the maximum allowed sulfate content in the top 3 feet when material

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comes from borrow source. Follow recommendations of 260.4.4 for mixing and mellowing. The engineer will test material placed or excavated to a depth of one foot below and laterally to one foot outside the proposed treatment limit. Lime treatment of this material will not be paid for directly, but will be considered subsidiary to this item.

Do not use shaley clays in embankment unless approved in writing.

Item 161:

Provide tickets representing quantity of compost delivered to site.

Item 169:

Hydraulically apply Flexterra FGM, CocoFlex ET-FGM, or Earth Guard or install North American Green SC150 for erosion control on the specified slopes or areas in the construction plan. Apply as required per manufacturer's recommendations. Use Tables under Item 164 to determine type of seeds to be used. Water for application, seeding, labor, equipment, tools, supplies, materials, fertilizer and incidentals will not be paid for directly but will be subsidiary to this Item.

Item 247:

Construct uniform layer thickness of 12 inches, or less with the required density and moisture content. Minimum PI is equal to three (3) for all grades.

Measure roadway profile smoothness with a high speed or lightweight inertial profiler that is certified by the Texas Transportation Institute. Acceptance will be based on no 0.10 mile section having an average IRI value greater than 125 inches per mile.

Take profile measurements after the section is finished, swept and otherwise meets the satisfaction of the engineer. Correct any roadway section that fails to meet these requirements. In addition, correct any area identified as localized roughness. Following corrections, re-profile the roadway to verify that corrective actions were successful.

Item 260:

Furnish and distribute MS-2 smoothly and evenly at the rate of 0.20 gallons per square yard to cure lime, as directed.

Provide Hydrated, Commercial, or Quick Lime Slurry and apply lime by slurry placement method.

Item 301:

Provide liquid antistripping agents unless otherwise directed. Add the minimum dosage determined by the manufacturer or higher dosage determined by design requirement and try subsequent trials at 0.25% increments.

Items 305 and 354:

Take possession of recycled asphalt pavement from the project and recycle the material.

Properly dispose of unsalvageable material at your own expense.

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Slope longitudinal faces greater than 1 ¼" to a minimum of 1:1 slope at the end of the work period if traffic is able to traverse the joint. Slope transverse tapers to a minimum of 36:1 at the end of the workday. Remove the taper prior to continuing the milling.

For open shoulder sections, plane the asphalt so the flow of water is not impeded at the shoulder edge or across the surface. Added planing up to three feet in width outside the lines and grades of the plans, necessary to provide proper drainage, will be subsidiary to the bid item.

Item 316:

	AC20-5TR AC20-XP AC15-P	CRS-2P	RC-250	
JANUARY				
FEBRUARY				
MARCH				
APRIL		NIGHTTIME LOW TEMPS ABOVE 50F		
MAY	LOW TEMP'S ABOVE 60F			
JUNE				
JULY				
AUGUST				
SEPTEMBER				
OCTOBER				
NOVEMBER				
DECEMBER				

RC-250 is only allowed as a first course in accordance with table above.

Utilize an asphalt distributor capable of providing a transversely varied asphalt rate. The Engineer will select the pavements where the transversely varied asphalt rate is required. When a transversely varied rate is required, the asphalt rate outside of the wheel paths will be between 22 and 32% higher than the asphalt rate applied in the wheel paths. Provide calibration documents to the Engineer that include a description of the spray bar(s) and nozzles that will be used and the percentage difference in asphalt rate achieved by each tested spray bar and nozzle arrangement. The nozzles proposed for use shall be clearly stamped or marked from the factory identifying the manufacturer.

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First Course				
ITEM	APPLICATION			
	Emul. Asphalt Treatment	1 st Course		
*Asphalt Type	MS-2 or SS-1	CRS-2P	AC20-5TR, AC20-XP, AC15-P	RC-250
*Asph. Rate (Gal/SY)	0.20	0.50	0.42	0.28
Aggregate Type		B or L	B or L	B or L
Aggregate Grade		3	3	5
Aggr. Rate (CY/SY)		1:105	1:105	1:125
Min. Cure Time	24 hrs	14 days (Emulsion)		

* The information above is intended to provide general guidance and as a basis of estimate. Based on the season and weather conditions at the time, the engineer will determine the asphalt type and rates to be used at the time of application.

In addition to the temperature requirements of this Item, AC Asphalts used in Surface Treatments and Sealcoats must be placed between May 15 and August 31. Emulsions may be substituted for AC Asphalts outside this timeframe only with the approval of the Engineer.

Item 320:

Use a self-propelled wheel mounted MTV capable of receiving mix from the haul trucks, separate from the paver. It shall have a minimum storage capacity of approximately 25 tons. It shall be equipped with a pivoting discharge conveyor and shall completely and thoroughly remix the material prior to placement. The effectiveness of the MTV's remixing ability is subject to the approval of the Engineer. In addition, the paver shall have a surge storage insert with a minimum capacity of 20 tons.

The use of windrow pick-up equipment is allowed except on the first course of roadway material placed over the subgrade.

Item 341:

Tack Coat is required.

Design for a target Laboratory-molded density of 97.0% when using the Texas Gyro Compactor (TGC) (Tex-204-F, Part I).

Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B.

Provide the engineer the opportunity to witness all mixture design tests. The engineer may require a retest if not given the opportunity to witness.

Dilution of tack is not allowed.

Provide PG binder 64-22 in Type C mixture.

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Item 400:

Structural Excavation is not paid for directly but is considered subsidiary to pertinent Items.

When placing concrete storm drain pipe on slopes of greater than 10 percent, provide cement stabilized backfill to a depth shown on the plans.

Item 421:

Furnish mix designs to the Engineer in a format compatible to the latest version of the Department's Construction Management System (Site Manager). Mix Design templates will be provided by the Engineer.

Item 464:

The concrete collars and the connections of pipes to existing or proposed concrete boxes or pipe will not be paid for directly but will be considered subsidiary to the various bid items.

At locations where storm drains dead-end, plug with a concrete plug of a thickness equal to 1 ½ inches per foot of diameter of pipe with a minimum thickness of 3 inches. The cost of the plugs shall be included in the unit price bid per foot of the various storm drain pipes.

Item 496:

Concrete pavement removed as a result of removing the inlets will not be paid for directly but will be considered as subsidiary to Item 496.

Inlet grates and manhole covers become the property of the contractor for disposal.

Item 500:

Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

Item 502:

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Access will be provided to all business and residences at all times. Where turning radii are limited during phased construction at intersections, provide all weather surfaces such as RAP or base in turning movements to accommodate and to protect the traffic from edge drop-offs. Materials, labor, maintenance and removal for these temporary accesses and radii will not be paid for directly but will be considered subsidiary to the various bid items.

Provide written proposed lane closure information by 1:00 pm on the business day prior to the proposed closures. Do not close lanes when this requirement is not met.

When excavation is required next to a pavement lane carrying traffic and the widening is not completed by the end of the work day, backfill against the edge of the pavement with at least a

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3:1 slope using an acceptable material to support vehicular traffic. Carefully remove and dispose of this material when work resumes. Backfilling pavement edges, and the materials required for the work will be subsidiary to this item.

Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

When moving unlicensed equipment on or across any pavement or public highways, protect the pavement from all damage using an acceptable method.

As approved by the Engineer, provide uniformed off duty police officers and squad cars during lane or ramp closures, night time work or other situations that indicate a need for additional traffic control to protect the traveling public or the construction workforce. Provide documentation such as payroll, log sheets with signatures and badge number, or invoices from the government entity providing the officers for reimbursement. Complete the weekly tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided. Reimbursement will not be made for coordination fees charged by the police department.

Item 504:

Furnish one Field Office and a Laboratory (Type B) at the project site, and one Asphalt Mix Control Laboratory (Type D) at the asphalt mixing plant.

Meet the dimensional requirements specified for a Field Laboratory (Type A) for the Asphalt Mix Control Laboratory (Type D).

Provide one local phone line to the field office. Supply one phone jack and one telephone per each room in the field office. The cost of the phone installation and various monthly phone service charges will be the contractor's responsibility.

Chain link fencing, area dimensioned as directed by the Engineer, will be provided around TxDOT field office/laboratory and parking areas separate from contractor areas. Keep Contractor and TxDOT parking separate. No Contractor vehicles, equipment, dumpsters, storage, etc. is allowed in TxDOT parking area.

Provide an all in one printer/scanner/fax/copier with software that is compatible with TxDOT equipment, cost not in excess of \$300. This is subsidiary to the various bid items.

Item 506:

Take all practicable precautions to prevent debris from being discharged into the Waters of Texas or a designated wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

If temporary construction stream crossings are allowed under a Nationwide Permit, submit in writing for approval the type and location of each temporary stream crossing. Use temporary bridges, timber mats, or other structurally sound and non-eroding material for temporary stream crossings. A temporary culvert crossing will consist of storm sewer pipes and 4- to 8-inch

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nominal size rock. Temporary stream crossings must not cause more than minimal changes to the hydraulic flow characteristics of the stream, increase flooding, or cause more than minimal degradation of water quality. Remove the temporary stream crossings in their entirety and return the affected areas to their pre-existing elevation. All work and materials use for temporary construction stream crossings will not be paid for directly but are subsidiary to pertinent Items.

Provide SW3P Signs. Obtain from the Engineer a copy of the project's completed TPDES Storm Water Program Construction Site Notice and Contractor Site Notice. Laminate the sheets and bond with adhesive to 36" X 36" plywood sign blanks. Ensure the sheets remain dry. Apply Type C Blue reflective sheeting as the background and add the text "SW3P" in 5" white lettering, centered at the top. Attach the signs to approved temporary mounts and locate at each of the project limits just inside the right of way line at a readable height or as directed by the Engineer. If the sign cannot be placed outside the clear zone, it must adhere to the TMUTCD. SW3P signs, maintenance, and reposting (for replacement or as needed to ensure readability) will be subsidiary to Item 502.

Concrete Washouts are required per the CGP. The Concrete Washout Area(s) structural controls must consist of temporary berms, temporary shallow pits, and/or temporary storage tanks to prevent contaminated runoff and must be lined as to prevent contamination of underlying soil. Ensure pits properly maintained including removal of concrete as not to allow over flow. The location(s) of washout area will be approved by the Engineer. When washout pits are no longer needed, they will be removed and area will be restored to original condition. This work, materials and labor will not be measured or paid for directly but will be subsidiary to Item 506, "Temporary Erosion, Sedimentation, and Environmental Controls."

Item 540:

Furnish one type of post throughout the project except as specifically noted in the plans.

Item 585:

Use Surface Test Type A on all intersections and driveways.

Use Surface Test Type B pay adjustment schedule 1 on the travel lanes.

Items 644:

Provide two (2) sets of shop drawings for signs. The shop drawings shall conform to the details shown on the plans. The shop drawings shall show the details of the panels, wind beams, stiffeners, joint backing plates, splices, fasteners, brackets, and sign support connections. The shop drawings shall show letter types and sizes, interline spacing and message arrangements.

Affix a sign identification decal to the back of all signs in accordance with Item 643.

Prior to taking elevations to determine lengths for fabrication of sign posts and/or sign support towers, obtain verification of all proposed locations.

All sign mounts shall have a clamp base system for all small roadside sign assemblies.

A 3 inch strip of red reflective sheeting shall be placed on all Do Not Enter sign assemblies. This sheeting shall be placed directly below the Do Not Enter sign for the

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entire length of the sign post facing wrong way traffic. This work will be considered subsidiary to Item 644.

Item 677:

A water blasting method approved by the Engineer will be the only method allowed for the removal of permanent and temporary pavement markings except on a sealcoat surface. A 2 foot wide sealcoat will be required on sealcoat surfaces to eliminate permanent and temporary pavement markings.

Item 730:

At the discretion of the Engineer, mow non-paved areas within the project prior to placement of permanent vegetation. Mow up to three (3) cycles per growing season.