

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 2

**DATED 8/03/2012**

<b>Control</b>	<b>0549-01-029</b>
<b>Project</b>	<b>STP 2012(575)</b>
<b>Highway</b>	<b>SH 121</b>
<b>County</b>	<b>FANNIN</b>

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 2012(575) CONTROL: 0549-01-029  
COUNTY: FANNIN  
LETTING: 08/07/2012  
REFERENCE NO: 0803

**PROPOSAL ADDENDUMS**

- \_ PROPOSAL COVER  
X BID INSERTS (SH. NO.: 2,12 of 12 )  
\_ GENERAL NOTES (SH. NO.: )  
X SPEC LIST (SH. NO.: 2,4 of 4 )  
X SPECIAL PROVISIONS:  
ADDED: 000--2523  
  
DELETED:  
  
X SPECIAL SPECIFICATIONS:  
ADDED: 3233  
  
DELETED:  
  
X OTHER: Plan Sheets

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

Bid Insert Sheets-  
\*\*\*\*\*  
Added designation to make bid items 316-2011, 316-2174, and 316-2542  
"Base Bid No. 1"  
Added bid item 3233-2001 as "Alt. Bid No. 1A"  
Bid Insert sheets 2,12 of 12 changed as a result

Spec List-  
\*\*\*\*\*  
Revised a date in special provision 000--2523  
Added special specification 3233  
Spec List sheets 2,4 of 4 changed as a result

Plan Sheets-  
\*\*\*\*\*  
Sheets 11,12A: Revised E&Q sheets to reflect the addition of alternate  
bid item listed above.  
Sheets 13,14: Added asterisk notations ("\*\*") to the OCST description  
and a note "See Quantity Summary sheet for Alternate bid item"  
Sheet 15: Added alternate underseal table, bid item 3233-2001

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	104	2017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	625.000	1
	105	2030		REMOVING STAB BASE & ASPH PAV (8"-14") DOLLARS and CENTS	SY	4,372.000	2
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	18,218.000	3
	110	2002		EXCAVATION (CHANNEL) DOLLARS and CENTS	CY	20.400	4
	132	2003		EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS	CY	18,306.200	5
	160	2005		FURNISHING AND PLACING TOPSOIL DOLLARS and CENTS	CY	2,308.000	6
	162	2002		BLOCK SODDING DOLLARS and CENTS	SY	4,726.000	7
	164	2041	002	DRILL SEEDING (TEMP) (WARM) DOLLARS and CENTS	SY	40,128.000	8
	164	2043	002	DRILL SEEDING (TEMP) (COOL) DOLLARS and CENTS	SY	40,128.000	9
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	240.700	10
	247	2209	033	FL BS (CMP IN PLC)(TY D GR 4)(4") DOLLARS and CENTS	SY	46,727.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	260	2002	003	LIME (HYDRATED LIME (SLURRY)) DOLLARS and CENTS	TON	926.000	12
	260	2028	003	LIME TRT (EXST MATL)(8") DOLLARS and CENTS	SY	46,727.000	13
	314	2009		EMULS ASPH(BS-SUBGR TRT)(SS-1 OR MS-2) DOLLARS and CENTS	GAL	9,346.000	14
1	316	2011	016	ASPH (CRS-2P) DOLLARS and CENTS	GAL	28,456.000	15
1	316	2174	016	AGGR(TY-B GR-4 SAC-B) DOLLARS and CENTS	CY	565.000	16
1	316	2542	016	ASPH(AC-15P OR AC-20-5TR OR AC-20XP) DOLLARS and CENTS	GAL	24,391.000	17
	400	2006		CUT & RESTORING PAV DOLLARS and CENTS	SY	1,872.000	18
	402	2001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	8,629.000	19
	416	2032	001	DRILL SHAFT (TRF SIG POLE) (36 IN) DOLLARS and CENTS	LF	132.000	20
	430	2051		CL C CONC FOR EXT STR (CULV) 5' X 2' DOLLARS and CENTS	LF	14.000	21
	430	2060		CL C CONC FOR EXT STRU(CULV)(7'X3') DOLLARS and CENTS	LF	16.000	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	430	2231		CL C CONC FOR EXT STR (CULV)(3-7'X3') DOLLARS and CENTS	LF	36.000	23
	432	2002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	681.000	24
	464	2001	006	RC PIPE (CL III)(12 IN) DOLLARS and CENTS	LF	52.000	25
	464	2003	006	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	516.000	26
	464	2005	006	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	8,629.000	27
	464	2009	006	RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	20.000	28
	465	2001	001	INLET (COMPL)(TY C) DOLLARS and CENTS	EA	53.000	29
	465	2006	001	MANH (COMPL)(JUNCT BOX)(TY M) DOLLARS and CENTS	EA	13.000	30
	465	2007	001	INLET EXT (TY C) DOLLARS and CENTS	EA	72.000	31
	465	2111	001	INLET (COMPL)(TY C)(MOD) DOLLARS and CENTS	EA	10.000	32
	465	2246	001	INLET (COMPL)(TY S) (MOD) DOLLARS and CENTS	EA	10.000	33

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	466	2047		WINGWALL (PW)(HW=3 FT)  DOLLARS and CENTS	EA	2.000	34
	466	2049		WINGWALL (PW)(HW=5 FT)  DOLLARS and CENTS	EA	4.000	35
	466	2125		HEADWALL (CH-PW-0)(DIA= 24 IN)  DOLLARS and CENTS	EA	8.000	36
	466	2129		HEADWALL (CH-PW-0)(DIA= 36 IN)  DOLLARS and CENTS	EA	2.000	37
	467	2572		SET (REMOV & REINSTALL)  DOLLARS and CENTS	EA	42.000	38
	472	2003		REMOV & RE-LAY PIPE (18 IN)  DOLLARS and CENTS	LF	1,181.000	39
	472	2005		REMOV & RE-LAY PIPE (24 IN)  DOLLARS and CENTS	LF	802.000	40
	496	2001		REMOV STR (BOX CULVERT)  DOLLARS and CENTS	EA	8.000	41
	496	2016		REMOV STR (PIPE)  DOLLARS and CENTS	EA	2.000	42
	500	2001	005	MOBILIZATION  DOLLARS and CENTS	LS	1.000	43

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING  DOLLARS and CENTS	MO	19.000	44
	506	2024	011	BACKHOE WORK (EROSION & SEDM CONT) DOLLARS and CENTS	HR	15.000	45
	506	2034	011	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	400.000	46
	529	2010		CONC CURB AND GUTTER (TY II)(REINF) DOLLARS and CENTS	LF	39,340.000	47
	530	2002		INTERSECTIONS (ACP) DOLLARS and CENTS	EA	18.000	48
	530	2008		DRIVEWAYS (ACP) DOLLARS and CENTS	EA	28.000	49
	530	2010		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	625.000	50
	531	2004		CONC SIDEWALKS (6") DOLLARS and CENTS	SY	4,700.000	51
	531	2006		CURB RAMPS (TY 2) DOLLARS and CENTS	EA	20.000	52
	531	2041		CURB RAMPS (TY 10) DOLLARS and CENTS	EA	4.000	53

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	560	2011	001	MAILBOX INSTALL-S (TWG-POST) TY 2 FND DOLLARS and CENTS	EA	12.000	54
	618	2012		CONDT (PVC) (SCHD 40) (1") DOLLARS and CENTS	LF	160.000	55
	618	2018		CONDT (PVC) (SCHD 40) ( 2") DOLLARS and CENTS	LF	60.000	56
	618	2022		CONDT (PVC) (SCHD 40) (3") DOLLARS and CENTS	LF	515.000	57
	618	2023		CONDT (PVC) (SCHD 40) (3") (BORE) DOLLARS and CENTS	LF	855.000	58
	618	2024		CONDT (PVC) (SCHD 40) (4") DOLLARS and CENTS	LF	20.000	59
	618	2034		CONDT (PVC) (SCHD 80) (2") DOLLARS and CENTS	LF	145.000	60
	620	2008	001	ELEC CONDR (NO. 4) INSULATED DOLLARS and CENTS	LF	90.000	61
	620	2010	001	ELEC CONDR (NO. 6) INSULATED DOLLARS and CENTS	LF	1,400.000	62
	621	2002		TRAY CABLE (3 CONDR) (12 AWG) DOLLARS and CENTS	LF	1,015.000	63
	624	2014	014	GROUND BOX TY D (162922) W/APRON DOLLARS and CENTS	EA	10.000	64

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	628	2164	003	ELC SRV TY D 120/240 070 (NS)AL(E)PS(U) DOLLARS and CENTS	EA	3.000	65
	644	2001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	41.000	66
	644	2056		RELOCATE SM RD SN SUP & AM TY 10BWG DOLLARS and CENTS	EA	17.000	67
	644	2058		RELOCATE SM RD SN SUP & AM TY S80 DOLLARS and CENTS	EA	5.000	68
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	8.000	69
	662	2004		WK ZN PAV MRK NON-REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	28,455.000	70
	662	2014		WK ZN PAV MRK NON-REMOV (W) 12" (SLD) DOLLARS and CENTS	LF	400.000	71
	662	2016		WK ZN PAV MRK NON-REMOV (W) 24" (SLD) DOLLARS and CENTS	LF	1,440.000	72
	662	2017		WK ZN PAV MRK NON-REMOV (W) (ARROW) DOLLARS and CENTS	EA	18.000	73
	662	2027		WK ZN PAV MRK NON-REMOV (W) (WORD) DOLLARS and CENTS	EA	18.000	74
	662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	37,940.000	75

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	1,000.000	76
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	2,700.000	77
	666	2042		REFL PAV MRK TY I (W) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	400.000	78
	666	2048		REFL PAV MRK TY I (W) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	1,440.000	79
	666	2054		REFL PAV MRK TY I (W) (ARROW) (100MIL) DOLLARS and CENTS	EA	18.000	80
	666	2096		REFL PAV MRK TY I (W) (WORD) (100MIL) DOLLARS and CENTS	EA	18.000	81
	666	2126		REFL PAV MRK TY I (Y) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	320.000	82
	672	2012	034	REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	270.000	83
	672	2017	034	REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	250.000	84
	677	2008		ELIM EXT PAV MRK & MRKS (ARROW) DOLLARS and CENTS	EA	35.000	85
	677	2018		ELIM EXT PAV MRK & MRKS (WORD) DOLLARS and CENTS	EA	8.000	86

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	680	2002		INSTALL HWY TRF SIG (ISOLATED) DOLLARS and CENTS	EA	3.000	87
	682	2001	001	BACK PLATE (12 IN) (3 SEC) DOLLARS and CENTS	EA	22.000	88
	682	2002	001	BACK PLATE (12 IN) (4 SEC) DOLLARS and CENTS	EA	5.000	89
	682	2014	001	PED SIG SEC (12 IN) LED (2 INDICATIONS) DOLLARS and CENTS	EA	20.000	90
	682	2022	001	VEH SIG SEC (12 IN) LED (GRN ARW) DOLLARS and CENTS	EA	5.000	91
	682	2023	001	VEH SIG SEC (12 IN) LED (GRN) DOLLARS and CENTS	EA	22.000	92
	682	2024	001	VEH SIG SEC (12 IN) LED (YEL ARW) DOLLARS and CENTS	EA	10.000	93
	682	2025	001	VEH SIG SEC (12 IN) LED (YEL) DOLLARS and CENTS	EA	22.000	94
	682	2026	001	VEH SIG SEC (12 IN) LED (RED ARW) DOLLARS and CENTS	EA	5.000	95
	682	2027	001	VEH SIG SEC (12 IN) LED (RED) DOLLARS and CENTS	EA	22.000	96
	684	2009		TRF SIG CBL (TY A) (12 AWG) ( 4 CONDR) DOLLARS and CENTS	LF	2,480.000	97

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	684	2010		TRF SIG CBL (TY A) (12 AWG) ( 5 CONDR) DOLLARS and CENTS	LF	3,309.000	98
	684	2012		TRF SIG CBL (TY A) (12 AWG) ( 7 CONDR) DOLLARS and CENTS	LF	335.000	99
	684	2014		TRF SIG CBL (TY A) (12 AWG) ( 9 CONDR) DOLLARS and CENTS	LF	1,135.000	100
	685	2002	014	RELOCATE RDSD FLASH BEACON ASSEM- BLY DOLLARS and CENTS	EA	2.000	101
	686	2031		INS TRF SIG PL AM(S) 1 ARM (32') DOLLARS and CENTS	EA	1.000	102
	686	2039		INS TRF SIG PL AM(S) 1 ARM (40') DOLLARS and CENTS	EA	2.000	103
	686	2047		INS TRF SIG PL AM(S) 1 ARM (48') DOLLARS and CENTS	EA	2.000	104
	686	2049		INS TRF SIG PL AM(S) 1 ARM (48') LUM DOLLARS and CENTS	EA	6.000	105
	687	2001	004	PED POLE ASSEMBLY DOLLARS and CENTS	EA	11.000	106
	3224	2008		D-GR HMA(QCQA) TY-B PG64-22 DOLLARS and CENTS	TON	17,553.000	107

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	3224	2038		D-GR HMA(QCQA) TY-D SAC-A PG64-22 DOLLARS and CENTS	TON	10,222.000	108
	6006	2001		SPREAD SPECTRUM RADIO DOLLARS and CENTS	EA	3.000	109
	6007	2001		REMOVING TRAFFIC SIGNALS DOLLARS and CENTS	EA	2.000	110
	6266	2001	024	VIVDS PROCESSOR SYSTEM DOLLARS and CENTS	EA	3.000	111
	6266	2002	024	VIVDS CAMERA ASSEMBLY DOLLARS and CENTS	EA	11.000	112
	6266	2003	024	VIVDS SET-UP SYSTEM DOLLARS and CENTS	EA	3.000	113
	6266	2005	024	VIVDS COMMUNICATION CABLE (COAXIAL) DOLLARS and CENTS	LF	1,933.000	114
	8251	2003	005	RE PM W/RET REQ TY I(W)4"(BRK)(100MIL) DOLLARS and CENTS	LF	4,920.000	115
	8251	2006	005	RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	19,670.000	116
	8251	2018	005	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	19,670.000	117

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	8260	2002		LED COUNTDOWN PED SIGNAL MOD W/ HOUSING  and  DOLLARS CENTS	EA	20.000	118
	8835	2001		ACCESSIBLE PEDESTRIAN SIGNAL UNITS  and  DOLLARS CENTS	EA	20.000	119
				ALTERNATE NO. 1A  and  DOLLARS CENTS			
	3233	2001		MEMBRANE UNDERSEAL  and  DOLLARS CENTS	GAL	15,245.000	120

CONTROL : 0549-01-029  
PROJECT : STP 2012(575)  
HIGHWAY : SH 121  
COUNTY : FANNIN

TEXAS DEPARTMENT OF TRANSPORTATION

**GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS**

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF  
----- TRANSPORTATION JUNE 1, 2004.  
STANDARD SPECIFICATIONS ARE INCORPORATED  
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS  
ITEM 104 REMOVING CONCRETE  
ITEM 105 REMOVING STABILIZED BASE AND ASPHALT PAVEMENT  
ITEM 110 EXCAVATION (132)  
ITEM 132 EMBANKMENT (100)(204)(210)(216)(400)  
ITEM 160 TOPSOIL  
ITEM 162 SODDING FOR EROSION CONTROL (166)(168)  
ITEM 164 SEEDING FOR EROSION CONTROL (162)(166)(168)  
ITEM 168 VEGETATIVE WATERING  
ITEM 247 FLEXIBLE BASE (105)(204)(210)(216)(520)  
ITEM 260 LIME TREATMENT (ROAD-MIXED) (105)(132)(204)(210)(300)  
(310)(520)  
ITEM 314 EMULSIFIED ASPHALT TREATMENT (204)(300)  
ITEM 316 SURFACE TREATMENTS (210)(300)(302)  
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132)(401)(420)  
(421)  
ITEM 402 TRENCH EXCAVATION PROTECTION  
ITEM 416 DRILLED SHAFT FOUNDATIONS (420)(421)(440)(448)  
ITEM 430 EXTENDING CONCRETE STRUCTURES (420)(421)(440)(448)  
ITEM 432 RIPRAP (247)(420)(421)(427)(431)(440)  
ITEM 464 REINFORCED CONCRETE PIPE (400)(476)  
ITEM 465 MANHOLES AND INLETS (400)(420)(421)(440)(471)  
ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(430)(440)(464)  
ITEM 467 SAFETY END TREATMENT (400)(420)(421)(430)(432)(440)(445)  
(460)(464)  
ITEM 472 REMOVING AND RE-LAYING CULVERT AND STORM DRAIN PIPE (400)  
(460)(464)(476)  
ITEM 496 REMOVING STRUCTURES (430)  
ITEM 500 MOBILIZATION  
ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING

ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS (432)(556)

ITEM 529 CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER (360)(420)(421)(440)

ITEM 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247)(260)(263)(275)(276)(292)(316)(330)(334)(340)(360)(421)(440)

ITEM 531 SIDEWALKS (104)(360)(420)(421)(440)(530)

ITEM 560 MAILBOX ASSEMBLIES

ITEM 618 CONDUIT (400)(445)(476)(622)

ITEM 620 ELECTRICAL CONDUCTORS

ITEM 621 TRAY CABLE

ITEM 624 GROUND BOXES (420)(421)(432)(440)(618)(620)

ITEM 628 ELECTRICAL SERVICES (441)(445)(449)(618)(620)(627)(656)

ITEM 644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (421)(440)(441)(442)(445)(634)(636)(643)(656)

ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(668)(672)(677)

ITEM 666 REFLECTORIZED PAVEMENT MARKINGS (316)(318)(662)(677)(678)

ITEM 672 RAISED PAVEMENT MARKERS (677)(678)

ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)(302)(316)

ITEM 680 INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (610)(625)(627)(634)(636)(656)

ITEM 682 VEHICLE AND PEDESTRIAN SIGNAL HEADS

ITEM 684 TRAFFIC SIGNAL CABLES

ITEM 685 ROADSIDE FLASHING BEACON ASSEMBLIES (441)(442)(445)(449)(656)(687)(4003)

ITEM 686 TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (416)(421)(441)(442)(445)(449)

ITEM 687 PEDESTAL POLE ASSEMBLIES (445)(449)(656)(4003)

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE  
 ----- PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED  
 HEREON WHEREVER IN CONFLICT THEREWITH.

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS  
 (FORM FHWA 1273, MARCH, 1994)

WAGE RATES

SPECIAL PROVISION "PARTNERING" (000--2329)

SPECIAL PROVISION "NOTICE TO ALL BIDDERS" (000---003)

SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)

SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS" (000---006)

SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT" (000---009)

SPECIAL PROVISION "DEPARTMENT DIVISION MAILING AND PHYSICAL ADDRESS" (000---011)

SPECIAL PROVISION "NOTICE OF CHANGES TO U.S. DEPARTMENT OF LABOR REQUIRED PAYROLL INFORMATION" (000--1483)

SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000--1676)

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--2332)

SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--2523)

SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL AID  
CONTRACTS" (000--1966)

SPECIAL PROVISION TO ITEM 1 (001---015)

SPECIAL PROVISION TO ITEM 2 (002---017)

SPECIAL PROVISION TO ITEM 3 (003---033)

SPECIAL PROVISION TO ITEM 4 (004---017)

SPECIAL PROVISION TO ITEM 5 (005---004)

SPECIAL PROVISION TO ITEM 6 (006---030)

SPECIAL PROVISION TO ITEM 7 (007---918)

SPECIAL PROVISIONS TO ITEM 8 (008---009) (008---119)

SPECIAL PROVISION TO ITEM 9 (009---009)

SPECIAL PROVISION TO ITEM 100 (100---002)

SPECIAL PROVISION TO ITEM 164 (164---002)

SPECIAL PROVISION TO ITEM 166 (166---001)

SPECIAL PROVISION TO ITEM 247 (247---033)

SPECIAL PROVISION TO ITEM 260 (260---003)

SPECIAL PROVISION TO ITEM 275 (275---003)

SPECIAL PROVISION TO ITEM 300 (300---039)

SPECIAL PROVISION TO ITEM 302 (302---010)

SPECIAL PROVISION TO ITEM 316 (316---016)

SPECIAL PROVISION TO ITEM 318 (318---010)

SPECIAL PROVISION TO ITEM 330 (330---001)

SPECIAL PROVISION TO ITEM 360 (360---003)

SPECIAL PROVISION TO ITEM 416 (416---001)

SPECIAL PROVISION TO ITEM 420 (420---002)

SPECIAL PROVISION TO ITEM 421 (421---035)

SPECIAL PROVISION TO ITEM 431 (431---001)

SPECIAL PROVISION TO ITEM 440 (440---006)

SPECIAL PROVISION TO ITEM 441 (441---007)

SPECIAL PROVISION TO ITEM 442 (442---016)

SPECIAL PROVISION TO ITEM 448 (448---002)

SPECIAL PROVISION TO ITEM 464 (464---006)

SPECIAL PROVISION TO ITEM 465 (465---001)

SPECIAL PROVISION TO ITEM 476 (476---003)

SPECIAL PROVISION TO ITEM 500 (500---005)

SPECIAL PROVISION TO ITEM 502 (502---033)

SPECIAL PROVISION TO ITEM 506 (506---011)

SPECIAL PROVISION TO ITEM 560 (560---001)

SPECIAL PROVISION TO ITEM 620 (620---001)

SPECIAL PROVISION TO ITEM 624 (624---014)

SPECIAL PROVISION TO ITEM 628 (628---003)

SPECIAL PROVISION TO ITEM 636 (636---014)

SPECIAL PROVISION TO ITEM 643 (643---001)

SPECIAL PROVISION TO ITEM 672 (672---034)

SPECIAL PROVISION TO ITEM 682 (682---001)

SPECIAL PROVISION TO ITEM 685 (685---014)

SPECIAL PROVISION TO ITEM 687 (687---004)

SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 6266 (6266--024)

SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 8251 (8251--005)

SPECIAL SPECIFICATIONS :  
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ITEM 3224 DENSE-GRADED HOT-MIX ASPHALT (QC/QA)  
ITEM 3233 SPRAY APPLIED UNDERSEAL MEMBRANE  
ITEM 4003 SCREW-IN TYPE ANCHOR FOUNDATIONS  
ITEM 6006 SPREAD SPECTRUM RADIOS FOR TRAFFIC SIGNALS  
ITEM 6007 REMOVING TRAFFIC SIGNALS  
ITEM 6266 VIDEO IMAGING VEHICLE DETECTION SYSTEM  
ITEM 8094 MOBILE RETROREFLECTIVITY DATA COLLECTION FOR PAVEMENT  
MARKINGS  
ITEM 8251 REFLECTORIZED PAVEMENT MARKINGS WITH RETROREFLECTIVE  
REQUIREMENTS (316)(318)(502)(677)(678)(8094)  
ITEM 8260 LED COUNTDOWN PEDESTRIAN SIGNAL MODULE  
ITEM 8835 ACCESSIBLE PEDESTRIAN SIGNAL UNITS

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH  
----- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER  
PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-  
LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL  
PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-  
CATIONS FOR THIS PROJECT.

**SPECIAL PROVISION****000--2523****Important Notice to Contractors**

As of July 12, 2012, utilities within the project limits have not been cleared. The Department anticipates clearance by the dates listed below. Unless otherwise stated, clearance of these obstructions will be performed by their owners. Estimated clearance dates are not anticipated to interfere with the Contractor's operations. In the event the clearance dates are not met, requests for additional compensation or time will be made in accordance with the standard specifications.

The Contractor is invited to review the mapped information of obstructions on file with the Engineer.

**UTILITIES TO BE ADJUSTED**

<b>OWNER</b>	<b>LOCATION</b>	<b>ESTIMATED COMPLETION DATE</b>
City of Bonham	Water Line WV / FH Sta. 2+86 80'R WV Sta. 10+11 54' R WV Sta. 11+43 crossing WV Sta. 12+13 crossing Sta. 12+13 to 15+22 54'R WV Sta. 21+23 crossing WV Sta. 29+22 crossing WV Sta. 29+74 52' R WV / FH Sta. 52' R WV Sta. 29+91 50'R WV Sta. 32+82 56' R WV Sta. 33+17 52' R WV Sta. 33+17 56' R WV Sta. 34+67 67'L Sta. 35+92 to 41+10 58'R FH Sta. 36+74 crossing WV Sta. 50+69 crossing S Sta. 57+34 73' L WV Sta. 57+69 60'L S Sta. 58+00 52'L	March 15, 2013

S Sta. 61+88 56' L  
S Sta. 66+00 73' L  
S Sta. 69+43 56' L  
S Sta. 69+74 56' R  
S Sta. 73+52 56'  
S Sta. 74+08 crossing  
WV Sta. 78+87 63' R

Atmos Energy

Gas Line  
Sta. 47+07 crossing  
Sta. 47+39 to 51+17 56' L  
Sta. 52+95 to 56+39 58' L  
Sta. 59+52 crossing  
Sta. 61+17 to 65+43 56' L  
Sta. 66+97 to 68+22 54' L  
Sta. 78+17 crossing  
Sta. 78+73 to 81+33 56' L

March 15, 2013

Cable One

Cable Line  
Sta. 2+67 to 21+43 30' L  
Sta. 33+95 to 34+71 30' R

March 15, 2013

Verizon

Phone Line  
Sta. 11+73 crossing  
Sta. 32+52 crossing  
Sta. 57+65 crossing  
Sta. 57+95 crossing  
Sta. 68+36 crossing  
Sta. 74+04 crossing  
Sta. 78+04 crossing

March 15, 2013

## SPECIAL SPECIFICATION

### 3233

### Spray Applied Underseal Membrane

**Description.** Construct an underseal membrane composed of a warm spray-applied polymer modified emulsion meeting the requirements of Table 1. The membrane is applied through a spray-paver and is covered immediately with a mixture of aggregate, asphalt binder, and additives mixed hot in a mixing plant.

**Table 1**  
**Polymer Modified Emulsions Requirements**

Test on Emulsion	Test Method	Min	Max
Viscosity @ 77°F, SSF	Tex-513-C	20	100
Storage Stability <sup>1</sup> , %	Tex-521-C		1
Demulsibility <sup>2</sup> Anionic emulsions — 35 ml of 0.02 N CaCl <sub>2</sub> , % Cationic emulsions — 35 ml 0.8% sodium dioctyl sulfosuccinate, %	Tex-521-C	55	
Sieve Test <sup>3</sup> , %	Tex-521-C		0.05
Distillation Test <sup>4</sup> Residue by distillation, % by wt. Oil portion of distillate, % by vol.	Tex-521-C	63	0.5
Test on Residue from Distillation	Test Method	Min	Max
Elastic Recovery @ 50°F, 50 mm/min, %	Tex-539-C	60	
Penetration @ 77°F, 100 g, 5 sec, 0.1 mm	Tex-502-C	100	150

1. After standing undisturbed for 24 hours, the surface must be smooth, must not exhibit a white or milky colored substance, and must be a homogeneous color throughout.

2. Material must meet demulsibility test for emulsions.

3. May be required by the Engineer only when the emulsion cannot be easily applied in the field.

4. The temperature on the lower thermometer should be brought slowly to 350°F ± 10°F and maintained at this temperature for 20 minutes. The total distillation should be complete in 60 ± 5 minutes from the first application of heat.

#### 1. Equipment.

- A. Spray Paver.** In addition to the requirements of Item 320, furnish a spray paver that will spray the membrane and apply the type and grade of mix shown on the plans and level the surface of the pavement layer in a single pass. Configure the spray paver so that the mixture is placed no more than 5 seconds after the membrane is applied.
- B. Membrane Storage Tank and Distribution System.** Equip the spray paver with an insulated storage tank having a minimum capacity of 900 gallons, unless otherwise approved by the Engineer. Provide a metered mechanical pressure sprayer on the spray paver to apply the membrane at the specified rate. Locate the spray bar on the spray

paver so that the membrane is applied immediately in front of the screed unit. Provide a read out device on the spray paver to monitor the membrane application rate.

Unless otherwise directed, furnish a volumetric calibration and strap stick for the tank in accordance with Tex-922-K, Part I. Calibrate the tank within the previous 5 years of the date first used on the project. The Engineer may verify calibration accuracy in accordance with Tex-922-K, Part II.

**2. Construction Methods.**

- A. Surface Preparation.** Remove existing raised pavement markers. Repair any damage incurred by removal as directed. Remove dirt, dust, or other harmful material before sealing. When shown on the plans, remove vegetation and blade pavement edges.
- B. Membrane Placement.** Unless otherwise directed by the Engineer, uniformly apply the membrane at a rate between 0.15 and 0.25 gallons per square yard. The Engineer may adjust the application rate, taking into consideration the existing pavement surface conditions. Spray the membrane using a metered mechanical pressure spray bar at a temperature between 140°F to 180°F. Monitor the membrane application rate and adjust the rate when needed or when directed. If required, verify that the spray bar is capable of applying the membrane at a uniform rate across the entire paving width as directed. Do not let the wheels or other parts of the paving machine contact the freshly applied membrane. Apply a uniform membrane coat to all contact surfaces and all joints as shown on the plans. Prevent splattering of the membrane when placed adjacent to curb, gutter, and other structures.
- C. Quality Control.** Perform the quality control tests listed in Table 2. If operational tolerances in Table 2 are exceeded, adjust processes or cease production when directed by the Engineer. The Engineer may perform independent tests to confirm contractor compliance and may require testing differences or failing results to be resolved before resuming production.
- D. Membrane Sampling.** Obtain a 1-qt. sample of the polymer modified emulsion for each lot of mixture produced. The Engineer will witness the sampling of polymer modified emulsion. Take the sample from the emulsion tank located on the paving machine, but not from the emulsion spraybar. Obtain the sample at approximately the same time the mixture random sample is obtained. Take all samples in accordance with Tex-500-C, Part III. Label the can with the corresponding lot and subplot numbers, and immediately deliver the sample to the Engineer. The Engineer will randomly choose at least 1 sample per project and test it to verify compliance with Table 1.

**Table 2  
Operational Tolerance and Minimum Testing Frequency**

Test Description	Test Method	Minimum Testing Frequency	Operational Tolerance
Membrane Application Rate	Tex-247-F	1 per day	± 0.02
Emulsion Membrane Sampling <sup>1</sup>	Tex-500-C	1 per day (sample only)	Table 1

1. The Engineer may reduce or waive the sampling and testing requirements based on a satisfactory history.

**3. Measurement.** Unless otherwise noted on the plans, underseal membrane material will be measured by one of the following methods:

**A. Volume.** Underseal membrane material will be measured at the applied temperature by strapping the tank before and after road application and determining the net volume in gallons from the distributor's calibrated strap stick. The Engineer will witness all strapping operations for volume determination.

If the meter and readout device is accurate within 1.5% of the strapped asphalt volume, the Engineer may allow use of the meter and readout to determine asphalt volume used and application rate.

The Engineer may require redetermination of meter readout at any time and will require volume determinations by strapping if the meter is not accurate to within 1.5% of strapped volume.

**B. Weight.** Underseal membrane material will be measured in tons using certified scales meeting the requirements of Item 320, unless otherwise approved. The transporting truck must have a seal attached to the driving device and other openings. The Engineer may require random checking on public scales, at the contractor's expense, to verify weight accuracy.

Upon completion or temporary suspension, any remaining membrane material will be weighed by a certified public weigher or measured by volume in a calibrated tank, and the quantity converted to tons at the measured temperature. The quantity to be measured will be the number of tons received, minus the number of tons remaining after all directed work is complete, and minus the amount used for other items.

**4. Payment.** The work performed and materials furnished in accordance with this item and measured as provided above will be paid for at the unit price for "Membrane Underseal". These prices are full compensation for all materials, equipment, labor, tools, and incidentals necessary to complete the work.

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