

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 5/28/2022

Control	<u>0176-02-118, ETC.</u>
Project	<u>F 2021(440), ETC.</u>
Highway	<u>US 59</u>
County	<u>ANGELINA</u>

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: F 2021(440)

CONTROL: 0176-02-118

COUNTY: ANGELINA

LETTING: 06/02/2022

REFERENCE NO: 0523

PROPOSAL ADDENDUMS

PROPOSAL COVER

BID INSERTS (SH. NO.: ALL)

GENERAL NOTES (SH. NO.: R)

SPEC LIST (SH. NO.: ALL)

SPECIAL PROVISIONS:

ADDED:

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

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

ADDED THE FOLLOWING BID ITEMS: 644-6060; 644-6061; 647-6001.

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS: 644-6001; 644-6004;
644-6030; 644-6033.

ITEMS SHIFTED FROM PAGE TO PAGE DUE TO ABOVE REVISIONS.

*****SPECIFICATION DATA*****

SHEET 13H (GENERAL NOTES) UPDATE NOTES TO INCLUDE ITEM 6367.

*****SPEC LIST*****

ADDED ITEM 647

ITEMS SHIFTED FROM PAGE TO PAGE DUE TO ABOVE REVISIONS.

PLAN SHEETS

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET 14D-14F: (ESTIMATE & QUANTITY SHEET): SEE BID INSERTS CHANGES AS NOTED ABOVE.

ITEMS SHIFTED FROM PAGE TO PAGE DUE TO ABOVE REVISIONS.

SHEET 13H: (GENERAL NOTES): SEE SPECIFICATION DATA CHANGES ABOVE.

SHEET 36: (QUANTITY SUMMARIES): SEE BID INSERT CHANGES AS NOTED ABOVE.

SHEET 52: (TRAFFIC CONTROL PLAN NARRATIVE): REVISED NARRATIVE ORDER.

SHEET 323: (MISCELLANEOUS DRAINAGE DETAILS): REVISED CEMENT STABILIZED/FLOWABLE BACKFILL DETAIL.

*****CONSTRUCTION TIMELINE ESTIMATE*****

CHANGE FIVE-DAY WORK WEEK TO STANDARD WORK WEEK.

Printed Name of Authorized Signer: _____

Signature of Authorized Signer: _____ Date: _____

PROJECT F 2021(440) , ETC.
 COUNTY ANGELINA

Proposal Sheet
 TxDOT
 FORM 234-B I-61-5M

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	132.000	1
	103	6001		DISPOSAL OF WATER WELLS DOLLARS and CENTS	EA	4.000	2
	104	6001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	37,930.000	3
	104	6009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	1,114.000	4
	104	6011		REMOVING CONC (MEDIANS) DOLLARS and CENTS	SY	333.000	5
	104	6017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	272.000	6
	104	6021		REMOVING CONC (CURB) DOLLARS and CENTS	LF	4,913.000	7
	104	6022		REMOVING CONC (CURB AND GUTTER) DOLLARS and CENTS	LF	409.000	8
	104	6023		REMOVING CONC (CTB) DOLLARS and CENTS	LF	2,854.000	9
	104	6028		REMOVING CONC (MISC) DOLLARS and CENTS	SY	241.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	105	6062		REMOVING STAB BASE AND ASPH PAV(4"- 16") DOLLARS and CENTS	SY	59,217.000	11
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	260,484.000	12
	132	6006		EMBANKMENT (FINAL)(DENS CONT)(TY C) DOLLARS and CENTS	CY	263,114.000	13
	160	6003		FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS	SY	352,292.000	14
	162	6008		ROLL SODDING DOLLARS and CENTS	SY	85,776.000	15
	164	6009		BROADCAST SEED (TEMP) (WARM) DOLLARS and CENTS	SY	45,868.000	16
	164	6011		BROADCAST SEED (TEMP) (COOL) DOLLARS and CENTS	SY	45,868.000	17
	164	6025		CELL FBR MLCH SEED(PERM)(URBAN)(SANDY) DOLLARS and CENTS	SY	268,761.000	18
	168	6001		VEGETATIVE WATERING DOLLARS and CENTS	MG	14,185.000	19
	169	6002		SOIL RETENTION BLANKETS (CL 1) (TY B) DOLLARS and CENTS	SY	23,064.000	20
	180	6001		WILDFLOWER SEEDING DOLLARS and CENTS	AC	7.200	21
	260	6004		LIME (QUICKLIME (DRY)) DOLLARS and CENTS	TON	2,996.000	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	260	6011		LIME TRT (EXST MATL) (12") DOLLARS and CENTS	SY	96,643.000	23
	275	6001		CEMENT DOLLARS and CENTS	TON	1,496.000	24
	275	6080		CEMENT TREAT (SUBGRADE)(12") DOLLARS and CENTS	SY	96,643.000	25
	310	6009		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	47,758.000	26
	354	6029		PLANE ASPH CONC PAV(0" TO 6") DOLLARS and CENTS	SY	17,512.000	27
	360	6004		CONC PVMT (CONT REINF - CRCP) (10") DOLLARS and CENTS	SY	109,567.000	28
	360	6007		CONC PVMT (CONT REINF - CRCP) (13") DOLLARS and CENTS	SY	66,122.000	29
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	2,063.000	30
	400	6006		CUT & RESTORING PAV DOLLARS and CENTS	SY	985.000	31
	401	6001		FLOWABLE BACKFILL DOLLARS and CENTS	CY	476.000	32
	402	6001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	458.000	33
	403	6001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	1,204.000	34

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	416	6001		DRILL SHAFT (18 IN) DOLLARS and CENTS	LF	1,016.000	35
	416	6004		DRILL SHAFT (36 IN) DOLLARS and CENTS	LF	9,614.000	36
	416	6007		DRILL SHAFT (54 IN) DOLLARS and CENTS	LF	25.000	37
	416	6018		DRILL SHAFT (SIGN MTS) (24 IN) DOLLARS and CENTS	LF	26.000	38
	416	6021		DRILL SHAFT (SIGN MTS) (42 IN) DOLLARS and CENTS	LF	70.000	39
	416	6022		DRILL SHAFT (SIGN MTS) (48 IN) DOLLARS and CENTS	LF	25.000	40
	416	6029		DRILL SHAFT (RDWY ILL POLE) (30 IN) DOLLARS and CENTS	LF	64.000	41
	420	6010		CL A CONC (PLUG) DOLLARS and CENTS	EA	2.000	42
	420	6013		CL C CONC (ABUT) DOLLARS and CENTS	CY	391.700	43
	420	6029		CL C CONC (CAP) DOLLARS and CENTS	CY	560.000	44
	420	6037		CL C CONC (COLUMN) DOLLARS and CENTS	CY	203.200	45
	422	6001		REINF CONC SLAB DOLLARS and CENTS	SF	146,485.000	46

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	422	6015		APPROACH SLAB DOLLARS and CENTS	CY	506.800	47
	425	6036		PRESTR CONC GIRDER (TX34) DOLLARS and CENTS	LF	6,121.320	48
	425	6038		PRESTR CONC GIRDER (TX46) DOLLARS and CENTS	LF	13,020.040	49
	427	6002	003	CONCRETE PAINT FINISH DOLLARS and CENTS	SF	38,160.000	50
	432	6001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	10.000	51
	432	6002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	325.000	52
	432	6024		RIPRAP (STONE COMMON)(DRY)(12 IN) DOLLARS and CENTS	CY	464.000	53
	432	6031		RIPRAP (STONE PROTECTION)(12 IN) DOLLARS and CENTS	CY	240.600	54
	432	6033		RIPRAP (STONE PROTECTION)(18 IN) DOLLARS and CENTS	CY	3,837.400	55
	432	6044		RIPRAP (CONC)(FLUME) DOLLARS and CENTS	CY	7.000	56
	442	6007	001	STR STEEL (MISC NON - BRIDGE) DOLLARS and CENTS	LB	630.000	57
	450	6012	001	RAIL (TY T411) DOLLARS and CENTS	LF	1,433.100	58

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	450	6023	001	RAIL (TY SSTR) DOLLARS and CENTS	LF	3,545.100	59
	450	6036	001	RAIL (TY C411) DOLLARS and CENTS	LF	1,351.200	60
	450	6051	001	RAIL (HANDRAIL)(TY E) DOLLARS and CENTS	LF	559.000	61
	450	6103	001	RAIL (TY PR11) DOLLARS and CENTS	LF	1,435.800	62
	454	6018		SEALED EXPANSION JOINT (4 IN) (SEJ - M) DOLLARS and CENTS	LF	850.000	63
	462	6055	002	CONC BOX CULV (6 FT X 4 FT)(EXTEND) DOLLARS and CENTS	LF	72.000	64
	462	6056	002	CONC BOX CULV (6 FT X 5 FT)(EXTEND) DOLLARS and CENTS	LF	227.000	65
	462	6073	002	CONC BOX CULV (10 FT X 5 FT)(EXTEND) DOLLARS and CENTS	LF	122.000	66
	462	6101	002	CONC BOX CULV (10 FT X 4 FT) DOLLARS and CENTS	LF	453.000	67
	464	6003	001	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	92.000	68
	464	6005	001	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	2,973.000	69
	464	6007	001	RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	816.000	70

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	464	6018	001	RC PIPE (CL IV)(24 IN) DOLLARS and CENTS	LF	116.000	71
	465	6034	001	INLET (COMPL)(PCU)(4FT)(LEFT) DOLLARS and CENTS	EA	2.000	72
	465	6038	001	INLET (COMPL)(PCU)(5FT)(LEFT) DOLLARS and CENTS	EA	2.000	73
	465	6042	001	INLET (COMPL)(PCU)(6FT)(LEFT) DOLLARS and CENTS	EA	1.000	74
	465	6126	001	INLET (COMPL)(PSL)(FG)(3FTX3FT-3FTX- 3FT) DOLLARS and CENTS	EA	3.000	75
	465	6128	001	INLET (COMPL)(PSL)(FG)(4FTX4FT-4FTX- 4FT) DOLLARS and CENTS	EA	6.000	76
	465	6225	001	JCT BOX (COMPL)(SPL) DOLLARS and CENTS	EA	1.000	77
	465	6266	001	INLET(COMPL)(CURB)(SPL1) DOLLARS and CENTS	EA	5.000	78
	465	6267	001	INLET(COMPL)(CURB)(SPL2) DOLLARS and CENTS	EA	64.000	79
	466	6167		WINGWALL (FW - S) (HW=6 FT) DOLLARS and CENTS	EA	3.000	80
	466	6196		WINGWALL (PW - 2) (HW=7 FT) DOLLARS and CENTS	EA	3.000	81
	467	6363		SET (TY II) (18 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	2.000	82

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	467	6390		SET (TY II) (24 IN) (RCP) (4: 1) (C) DOLLARS and CENTS	EA	4.000	83
	467	6391		SET (TY II) (24 IN) (RCP) (4: 1) (P) DOLLARS and CENTS	EA	2.000	84
	467	6395		SET (TY II) (24 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	90.000	85
	467	6423		SET (TY II) (30 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	24.000	86
	479	6002		ADJUSTING INLETS DOLLARS and CENTS	EA	2.000	87
	479	6006		ADJUSTING INLET (CAP) DOLLARS and CENTS	EA	1.000	88
	496	6002		REMOV STR (INLET) DOLLARS and CENTS	EA	32.000	89
	496	6005		REMOV STR (WINGWALL) DOLLARS and CENTS	EA	4.000	90
	496	6007		REMOV STR (PIPE) DOLLARS and CENTS	LF	3,344.000	91
	496	6010		REMOV STR (BRIDGE 100 - 499 FT LENGTH) DOLLARS and CENTS	EA	1.000	92
	496	6050		REMOV STR (DRIVEWAY CULVERT) DOLLARS and CENTS	EA	35.000	93
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	94

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	502	6001	008	BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	37.000	95
	506	6002	005	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	1,454.000	96
	506	6011	005	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	1,454.000	97
	506	6020	005	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	378.000	98
	506	6024	005	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	378.000	99
	506	6034	005	CONSTRUCTION PERIMETER FENCE DOLLARS and CENTS	LF	2,890.000	100
	506	6038	005	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	4,246.000	101
	506	6039	005	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	4,246.000	102
	506	6041	005	BIODEG EROSN CONT LOGS (INSTL) (12") DOLLARS and CENTS	LF	2,020.000	103
	506	6043	005	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	2,020.000	104
	508	6001		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	12,103.000	105
	512	6009		PORT CTB (FUR & INST)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	1,640.000	106

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	512	6010		PORT CTB (FUR & INST)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	320.000	107
	512	6033		PORT CTB (MOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	1,600.000	108
	512	6034		PORT CTB (MOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	40.000	109
	512	6057		PORT CTB (REMOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	1,640.000	110
	512	6058		PORT CTB (REMOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	320.000	111
	512	6067		PTB (FRN&INSTL)(F SHAPE)(TY 1) OR (STL) DOLLARS and CENTS	LF	24,900.000	112
	512	6069		PTB (MOVE)(F SHAPE)(TY 1) OR (STL) DOLLARS and CENTS	LF	27,881.000	113
	512	6071		PTB (REMOVE)(F SHAPE)(TY 1) OR (STL) DOLLARS and CENTS	LF	24,900.000	114
	514	6001		PERM CTB (SGL SLOPE) (TY 1) (42) DOLLARS and CENTS	LF	10,014.000	115
	529	6002		CONC CURB (TY II) DOLLARS and CENTS	LF	272.000	116
	529	6005		CONC CURB (MONO) (TY II) DOLLARS and CENTS	LF	19,970.000	117
	530	6004		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	12,851.000	118

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	531	6001		CONC SIDEWALKS (4") DOLLARS and CENTS	SY	12,609.000	119
	531	6008		CURB RAMPS (TY 5) DOLLARS and CENTS	EA	2.000	120
	531	6013		CURB RAMPS (TY 10) DOLLARS and CENTS	EA	2.000	121
	533	6001		RUMBLE STRIPS (SHOULDER) DOLLARS and CENTS	LF	12,929.000	122
	540	6001	001	MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	2,825.000	123
	540	6006	001	MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	16.000	124
	540	6016	001	DOWNSTREAM ANCHOR TERMINAL SEC- TION DOLLARS and CENTS	EA	7.000	125
	542	6001		REMOVE METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	533.000	126
	542	6004		RM MTL BM GD FENCE TRANS (THRIE- BEAM) DOLLARS and CENTS	EA	2.000	127
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	20.000	128
	544	6003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	3.000	129
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	26.000	130

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	17.000	131
	545	6019		CRASH CUSH ATTEN (INSTL)(S)(N)(TL3) DOLLARS and CENTS	EA	15.000	132
	556	6006		PIPE UNDERDRAINS (TY 6) (6") DOLLARS and CENTS	LF	1,000.000	133
	560	6003		MAILBOX INSTALL-M (TWG-POST) TY 1 DOLLARS and CENTS	EA	25.000	134
	560	6007		MAILBOX INSTALL-S (WC-POST) TY 3 DOLLARS and CENTS	EA	7.000	135
	560	6008		MAILBOX INSTALL-D (WC-POST) TY 3 DOLLARS and CENTS	EA	6.000	136
	610	6009		REMOVE RD IL ASM (TRANS-BASE) DOLLARS and CENTS	EA	6.000	137
	610	6214		IN RD IL (TY SA) 40T-8 (250W EQ) LED DOLLARS and CENTS	EA	8.000	138
	618	6023		CONDT (PVC) (SCH 40) (2") DOLLARS and CENTS	LF	2,575.000	139
	618	6047		CONDT (PVC) (SCH 80) (2") (BORE) DOLLARS and CENTS	LF	295.000	140
	620	6007		ELEC CONDR (NO.8) BARE DOLLARS and CENTS	LF	2,865.000	141
	620	6008		ELEC CONDR (NO.8) INSULATED DOLLARS and CENTS	LF	4,570.000	142

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	620	6019		ELEC CONDR (NO.1/0) BARE DOLLARS and CENTS	LF	580.000	143
	620	6020		ELEC CONDR (NO.1/0) INSULATED DOLLARS and CENTS	LF	1,740.000	144
	624	6002		GROUND BOX TY A (122311)W/APRON DOLLARS and CENTS	EA	3.000	145
	624	6010		GROUND BOX TY D (162922)W/APRON DOLLARS and CENTS	EA	3.000	146
	624	6028		REMOVE GROUND BOX DOLLARS and CENTS	EA	11.000	147
	628	6002		REMOVE ELECTRICAL SERVICES DOLLARS and CENTS	EA	1.000	148
	628	6045		ELC SRV TY A 240/480 060(NS)SS(E)SP(O) DOLLARS and CENTS	EA	1.000	149
	628	6263		ELC SRV TY D 120/240 125(NS)SS(E)PS(U) DOLLARS and CENTS	EA	1.000	150
	636	6002	001	ALUMINUM SIGNS (TY G) DOLLARS and CENTS	SF	306.000	151
	636	6003	001	ALUMINUM SIGNS (TY O) DOLLARS and CENTS	SF	522.000	152
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	10.000	153
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	25.000	154

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	6030		IN SM RD SN SUP&AM TYS80(1)SA(T) DOLLARS and CENTS	EA	4.000	155
	644	6033		IN SM RD SN SUP&AM TYS80(1)SA(U) DOLLARS and CENTS	EA	2.000	156
	644	6060		IN SM RD SN SUP&AM TYTWT(1)WS(P) DOLLARS and CENTS	EA	22.000	157
	644	6061		IN SM RD SN SUP&AM TYTWT(1)WS(T) DOLLARS and CENTS	EA	2.000	158
	647	6001		INSTALL LRSS (STRUCT STEEL) DOLLARS and CENTS	LB	1,185.100	159
	650	6025	001	INS OH SN SUP(25 FT CANT) DOLLARS and CENTS	EA	1.000	160
	650	6032	001	INS OH SN SUP(30 FT CANT) DOLLARS and CENTS	EA	2.000	161
	650	6035	001	INS OH SN SUP(35 FT BAL TEE) DOLLARS and CENTS	EA	1.000	162
	650	6038	001	INS OH SN SUP(35 FT CANT) DOLLARS and CENTS	EA	1.000	163
	654	6006	001	SIGN WALKWAY (48 IN) WITH HNDRL DOLLARS and CENTS	LF	13.000	164
	658	6013		INSTL DEL ASSM (D-SW)SZ (BRF)CTB DOLLARS and CENTS	EA	55.000	165
	658	6015		INSTL DEL ASSM (D-SW)SZ (BRF)GF1 DOLLARS and CENTS	EA	32.000	166

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	658	6026		INSTL DEL ASSM (D-SY)SZ (BRF)CTB DOLLARS and CENTS	EA	236.000	167
	658	6028		INSTL DEL ASSM (D-SY)SZ (BRF)GF1 DOLLARS and CENTS	EA	16.000	168
	658	6099		INSTL OM ASSM (OM-2Z)(WFLX)GND DOLLARS and CENTS	EA	25.000	169
	658	6101		INSTL OM ASSM (OM-2Z)(WFLX)SRF)SRF DOLLARS and CENTS	EA	20.000	170
	662	6001		WK ZN PAV MRK NON-REMOV (W)4"(BRK) DOLLARS and CENTS	LF	741.000	171
	662	6004		WK ZN PAV MRK NON-REMOV (W)4"(SLD) DOLLARS and CENTS	LF	7,268.000	172
	662	6012		WK ZN PAV MRK NON-REMOV (W)8"(SLD) DOLLARS and CENTS	LF	934.000	173
	662	6016		WK ZN PAV MRK NON-REMOV (W)24"(SLD) DOLLARS and CENTS	LF	38.000	174
	662	6034		WK ZN PAV MRK NON-REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	9,866.000	175
	662	6048		WK ZN PAV MRK REMOV (REFL) TY I-C DOLLARS and CENTS	EA	12,170.000	176
	662	6050		WK ZN PAV MRK REMOV (REFL) TY II-A-A DOLLARS and CENTS	EA	9,005.000	177
	662	6056		WK ZN PAV MRK REMOV (TRAF BTN) TY W DOLLARS and CENTS	EA	29,655.000	178

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	662	6058		WK ZN PAV MRK REMOV (TRAF BTN) TY Y DOLLARS and CENTS	EA	26,506.000	179
	666	6036	007	REFL PAV MRK TY I (W)8"(SLD)(100MIL) DOLLARS and CENTS	LF	7,090.000	180
	666	6042	007	REFL PAV MRK TY I (W)12"(SLD)(100MIL) DOLLARS and CENTS	LF	256.000	181
	666	6159	007	RE PV MRK TY I(BLACK)4"(SHADOW)(100MIL) DOLLARS and CENTS	LF	11,309.000	182
	666	6224	007	PAVEMENT SEALER 4" DOLLARS and CENTS	LF	121,668.000	183
	666	6226	007	PAVEMENT SEALER 8" DOLLARS and CENTS	LF	7,090.000	184
	666	6228	007	PAVEMENT SEALER 12" DOLLARS and CENTS	LF	256.000	185
	666	6300	007	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL) DOLLARS and CENTS	LF	11,309.000	186
	666	6303	007	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	49,561.000	187
	666	6315	007	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	49,655.000	188
	668	6076		PREFAB PAV MRK TY C (W) (24") (SLD) DOLLARS and CENTS	LF	221.000	189
	672	6010		REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	925.000	190

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	30,354.000	191
	677	6003		ELIM EXT PAV MRK & MRKS (8") DOLLARS and CENTS	LF	1,457.000	192
	677	6005		ELIM EXT PAV MRK & MRKS (12") DOLLARS and CENTS	LF	26.000	193
	677	6008		ELIM EXT PAV MRK & MRKS (ARROW) DOLLARS and CENTS	EA	4.000	194
	677	6012		ELIM EXT PAV MRK & MRKS (WORD) DOLLARS and CENTS	EA	1.000	195
	678	6001		PAV SURF PREP FOR MRK (4") DOLLARS and CENTS	LF	121,819.000	196
	678	6004		PAV SURF PREP FOR MRK (8") DOLLARS and CENTS	LF	7,090.000	197
	678	6006		PAV SURF PREP FOR MRK (12") DOLLARS and CENTS	LF	256.000	198
	678	6008		PAV SURF PREP FOR MRK (24") DOLLARS and CENTS	LF	221.000	199
	678	6033		PAV SURF PREP FOR MRK (RPM) DOLLARS and CENTS	EA	925.000	200
	3076	6001		D-GR HMA TY-B PG64-22 DOLLARS and CENTS	TON	41,757.000	201
	3076	6003		D-GR HMA TY-B PG64-22 (EXEMPT) DOLLARS and CENTS	TON	381.000	202

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	2.000	203
	6028	6001		INSTALL DMS (POLE MTD CABINET) DOLLARS and CENTS	EA	2.000	204
	6185	6002	002	TMA (STATIONARY) DOLLARS and CENTS	DAY	30.000	205
	6185	6005	002	TMA (MOBILE OPERATION) DOLLARS and CENTS	DAY	100.000	206
	6367	6001		INST OF FIELD HARDENED ETHERNET SWITCH DOLLARS and CENTS	EA	1.000	207
	6367	6002		INSTALLATION OF CELLULAR MODEM DOLLARS and CENTS	EA	1.000	208
	7032	6003	001	WTR(PIPE WTR MAIN)PVC ASTM D2241(2") DOLLARS and CENTS	LF	10.000	209
	7032	6007	001	WTR(CASE PIPE,JACK,BOR OR TUNL)STL(16") DOLLARS and CENTS	LF	323.000	210
	7032	6012	001	WTR(GATE VALVE & BOX)COMPL(8") DOLLARS and CENTS	EA	4.000	211
	7032	6013	001	WTR(GATE VALVE & BOX)COMPL(6") DOLLARS and CENTS	EA	1.000	212
	7032	6014	001	WTR(GATE VALVE & BOX)COMPL(2") DOLLARS and CENTS	EA	4.000	213
	7032	6016	001	WTR(FIRE HYDRANT W/6" VALVE & BOX) DOLLARS and CENTS	EA	1.000	214

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	7032	6022	001	WTR(TIE-IN)COMPL(2") DOLLARS and CENTS	EA	1.000	215
	7032	6023	001	WTR(TIE-IN)COMPL(4") DOLLARS and CENTS	EA	4.000	216
	7032	6024	001	WTR(TIE-IN)COMPL(6") DOLLARS and CENTS	EA	3.000	217
	7032	6078	001	WTR(GATE VALVE & BOX)COMPL(4") DOLLARS and CENTS	EA	7.000	218
	7032	6079	001	RELOC EXIST METER(NEW METER BOX)COMPL DOLLARS and CENTS	EA	44.000	219
	7032	6088	001	WTR(JACK,BORE OR TUNNEL)WTR MAIN(8") DOLLARS and CENTS	LF	323.000	220
	7032	6106	001	WTR (CASE PIPE,JACK,BOR OR TUNL)STL(8") DOLLARS and CENTS	LF	440.000	221
	7032	6121	001	WTR (COMBO AIR RELEASE VALVE) COMPL DOLLARS and CENTS	EA	3.000	222
	7032	6192	001	WTR(PIPE WTR MAIN)(PVC C900 DR 18)(4") DOLLARS and CENTS	LF	7,394.000	223
	7032	6200	001	WTR(PIPE WTR MAIN)PVC ASTM D2241(3") DOLLARS and CENTS	LF	2,463.000	224
	7032	6230	001	WTR(PIPE WTR MAIN)PVC ASTM D2241(1.5") DOLLARS and CENTS	LF	289.000	225

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	7032	6231	001	WTR(PIPE WTR MAIN)(PVC C900DR18)(6") DOLLARS and CENTS	LF	22.000	226
	7032	6232	001	WTR(PIPE WTR MAIN)(PVC C900DR18)(8") DOLLARS and CENTS	LF	326.000	227
	7032	6233	001	WTR(GATE VALVE & BOX)COMPL(1.5") DOLLARS and CENTS	EA	2.000	228
	7032	6234	001	WTR(FIRE HYDRANT W/4" VALVE & BOX) DOLLARS and CENTS	EA	1.000	229
	7032	6235	001	WTR(JACK,BORE OR TUNNEL)WTR MAIN(4") DOLLARS and CENTS	LF	440.000	230
	7032	6236	001	WTR(RELOC SERVICE)(3/4")COPPER DOLLARS and CENTS	EA	7.000	231
	7032	6237	001	WTR(RELOC SERVICE)(1")COPPER DOLLARS and CENTS	EA	26.000	232
	7032	6238	001	WTR(RELOC SERVICE)(1.5")COPPER DOLLARS and CENTS	EA	3.000	233
	7032	6239	001	WTR(RELOC SERVICE)(2")COPPER DOLLARS and CENTS	EA	8.000	234

GENERAL NOTES:

The following standard detail sheets have been modified.

CRCP(1)-20 (MOD)

DMS(TM-1)-16 (MOD)

DMS(TM-2)-16 (MOD)

DMS(TM-3)-16 (MOD)

Existing regulatory, warning and guide signs within project limits are to remain visible to the traveling public at all times. If a sign must be repositioned during construction operations, move and install the sign to an approved location. Use care when working near existing signs and repair or replace signs damaged by work operations. All work involved repositioning existing signs will be subsidiary to various bid items.

Furnish materials and make repairs to the existing roadway at any location damaged by construction operations. This work shall be done in an approved manner and will be subsidiary to various bid items.

Ensure drainage structures and outfall channels constructed on this project are free of silt and debris at the time of project acceptance. Final clean out work will be subsidiary to various bid items.

Maintain adequate surface drainage throughout the project limits during all phases of construction.

Provide suitable access at all times to adjacent businesses, private property and side roads.

When construction work necessitates the moving of mailboxes, temporarily relocate them as necessary to keep them clear of construction operations and convenient for the mail carrier. Mounts for temporarily relocating mailboxes shall conform to the Department's "Compliant Work Zone Traffic Control Device List" or the mailbox standard. Temporary relocation of mailboxes will be subsidiary to various bid items.

Remove dirt, silt, rocks, debris and other foreign matter that accumulates in structures due to the Contractor's operations as directed. Keep stream channels open at all times. This work will not be paid for directly, but will be subsidiary to pertinent Items.

Electronic files (pdf only) containing cross-sections will be available upon request.

Contractor questions on this project are to be addressed to the following individual(s):

Jesse Sisco, Area Engineer

Jesse.Sisco@txdot.gov

Praveen Ramanathan, Asst. Area Engineer

Praveen.Ramanathan@txdot.gov

Contractor questions will be accepted through email, phone, and in person by the above individuals.

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to TxDOT's Public FTP at the following Address:

<https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/>

All questions submitted that generate a response will be posted through this site. The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

The contractor's attention is directed to the EPIC sheet(s) included in this plan set for additional information regarding environmental permits, issues, and commitments

Project Mowing

Mow the highway right of way within the project limits a maximum of 3 cycles per year as directed. Mowing will not be measured or paid for directly, but will be subsidiary to various bid items.

The equipment used for mowing shall consist of approved mowing units capable of mowing on slopes without marring finished slope surfaces or injuring existing growth. The minimum cutting width shall not be less than 5 ft., unless otherwise approved.

Mow all areas of existing vegetation and vegetation placed during the project as directed. The mowing height shall be 5 in. unless otherwise directed. Repair portions of sod or grass that are injured during mowing operations as directed.

Mow as close as possible to all fixed objects, exercising extreme care not to damage trees, plants, shrubs, signs, delineators or other appurtenances which are part of the facility. Hand trim around such objects, unless otherwise specified.

Use safety chains or other manufacturer's safety device to prevent damage to people or property caused by flying debris propelled out from under rotary mowers. Chains shall be a minimum size of 5/16 in. and links spaced side by side around the mower's front, sides and rear. When mowing at the specified cutting height, the chains shall be long enough to drag the ground. If at any time, it is determined mowing or trimming equipment is defective to the point that it may affect the quality of work or create an unsafe condition, then that equipment shall be immediately repaired or replaced.

Litter Pickup

Remove litter from the right of way in the limits of this project a maximum of 3 cycles per year as directed. Litter pickup will not be measured or paid for directly, but will be subsidiary to various bid items.

In addition to the requirements in Item 5, Section 11, Final Cleanup; remove litter from the right of way at locations where the Contractor may be required to mow. Litter pickup will not be measured or paid for directly, but will be subsidiary to various bid items

The equipment used for litter pickup shall be approved.

Collect and dispose of all litter deposited by construction operations or the traveling public including cans, bottles, paper, plastic items, metal scraps, lumber, etc. from within the project right of way or as directed. Properly dispose of all collected litter. Do not dump or stockpile collected litter on State property.

For removal of large dead animals, contact nearest TxDOT maintenance section for disposal instructions. Do not bury animal carcasses on State property.

Item 5: Control of the Work

There are several existing sewer manholes within the right of way. Work around them with care to prevent damage to the sewer system.

In the event utility lines needing unforeseen adjustments are encountered during construction operations, alter operations and continue to prosecute the contract in such a manner that will allow utility adjustments to be made by others. An extension of working time may be granted for any delays caused by the utility adjustments if deemed necessary.

Texas Department of Licensing and Regulation (TDLR) will perform an inspection of sidewalks, pedestrian ramps and other pedestrian facilities upon completion of the project to verify conformance with Texas Accessibility Standards. Deficiencies found by TDLR shall be corrected as directed.

Precast Alternate Proposals.

When a precast or cast-in-place concrete element is included in the plans, a precast concrete alternate may be submitted in accordance with “Standard Operating Procedure for Alternate Precast Proposal Submission” found online at <https://www.txdot.gov/inside-txdot/forms-publications/consultants-contractors/publications/bridge.html#design>. Acceptance or denial of an alternate is at the sole discretion of the Engineer. Impacts to the project schedule and any additional costs resulting from the use of alternates are the sole responsibility of the Contractor.

Item 7: Legal Relations and Responsibilities

Roadway closures during the following key dates and/or special events are prohibited:

July 4th: Independence Day Celebration at Lufkin Zoo/Expo

This project has a soil disturbance of 5 acres or more.

The Department will be considered a primary operator for Operational Control Over Plans and Specifications as defined in TPDES GP TXR 150000 for construction activities in the right of way. The Department will post a large site notice, file a notice of intent (NOI), notice of change (NOC), if applicable, and a notice of termination (NOT) along with other requirements per TPDES GP TXR 150000 as the entity having operational control over plans and specifications for work shown on the plans in the right of way.

The Contractor will be considered a primary operator for Day-to-Day Operational Control as defined in TPDES GP TXR 150000 for construction activities in the right of way. In addition to

the Department's actions, the Contractor shall file a NOI, NOC, if applicable, and NOT and post a large site notice along with other requirements as the entity of having day-to-day operational control of the work shown on the plans in the right of way. This is in addition to the Contractor being responsible for TPDES GP TXR 150000 requirements for on- right of way and off- right of way PSL's. Adhere to all requirements of the SWP3 as shown on the plans.

Dispose of all vegetative matter and any other materials removed from State Right of Way in accordance with applicable environmental laws, rules, regulations and requirements.

Burning locations must be approved by the Engineer prior to beginning. Burning activities must be conducted in compliance with Texas Commission on Environmental Quality (TCEQ) regulations. Notify the Engineer when burning activities will take place

In order to maintain compliance with Chapter 64 of the Texas Parks and Wildlife Code and Migratory Bird Treaty Act (MBTA), construction activities that may affect nests (i.e. tree removal, tree limbing, bridge work) shall be conducted outside of the nesting season (March 15 to September 15). In the event birds or active nests (eggs and/or nestlings present) are encountered, contact the engineer prior to conducting work.

Item 8: Prosecution and Progress

For this project, working days will be computed and charged in accordance with Item 8, Section 3.1.4 "Standard Workweek".

No lane closures will be allowed after Noon on Fridays or on days preceding National Holidays unless otherwise approved.

No lane closures will be allowed 5 days prior to landfall of a hurricane or other serious impeding weather events.

Submit monthly progress schedules no later than the 20th calendar day of the month. Failure to comply with this deadline may result in the Engineer withholding progress (monthly) payments.

Provide a Critical Path Method (CPM) Construction Schedule unless otherwise approved.

A 90-day delay has been included to allow the Contractor time to order materials.

Item 100: Preparing Right of Way

The equipment used to trim limbs shall be approved. A boom axe will not be allowed.

Removal of any fence will be subsidiary to Item 110.

Item 105: Removing Treated and Untreated Base and Asphalt Pavement

Material removed by this operation will become the property of the Contractor.

Item 110: Excavation

Item 132: Embankment

Hauling materials with scrapers across or along existing roadways will not be permitted without written permission.

Drying of material deeper than 6 inches below subgrade elevations will not be paid for without written permission.

Grading required for shaping driveways and side road turnouts for pipe culverts at all access locations, will be subsidiary to various bid items.

All blading, rolling, and scraper work to construct and remove temporary slopes adjacent to pavement drop-offs, will be subsidiary to various bid items.

Compact embankment material used to reshape existing slopes to a density comparable with adjacent undisturbed material to the satisfaction of the Engineer.

Specification Data			
Description	Soil Constants		
	Max LL	Max PI	Min PI
Embankment (Type C)	40	22	5

All embankment near Bridges shall have a 90 Day settlement period. These embankments shall be initially constructed to proposed subgrade elevations. After this initial embankment construction, the embankments shall sit undisturbed for the designated settlement period, unless otherwise directed by the Engineer. If embankment is disturbed sooner than the designated settlement period, additional settlement measures may be required. After the designated settlement period is achieved, the embankment shall be re-graded to proposed subgrade elevations, and base and pavement construction may begin. Any additional volume of embankment necessary to re-establish proposed subgrade elevations after the settlement period shall be considered subsidiary to Item 132.

Item 158: Specialized Excavation Work

Use specialized excavation work at structures to improve drainage as directed.

Item 162: Sodding for Erosion Control

Provide Bermuda block sod unless St. Augustine is the prevailing grass cover at particular placement locations. Provide St. Augustine block sod at those locations.

Item 164: Seeding for Erosion Control

The Engineer will require the following varieties of seed to be used in addition to the varieties shown in the specification:

- Wildflower Seeding

Ensure consistent coverage of Caddo Mix at a rate of 15 lbs/acre. Sow exactly when and how as recommended by the supplier.

Item 166: Fertilizer

Fertilize all seeded or sodded areas.

Item 168: Vegetative Watering

Equip water trucks with sprinkler systems capable of watering all of the entire seeded or sodded areas from the roadway.

Water all newly placed sodded or seeded areas at the time of installation. Thereafter, maintain the sodded or seeded areas in a well-watered condition, at no time allow the areas to dry to a condition where water stress is evident.

Item 169: Soil Retention Blankets

In areas designated for soil retention blankets (SRB) in the plans, furnish only spray-on products listed on the Approved Product List for Erosion Control Products based upon the Class and Type specified in the plans. Any substitution to spray –on products must be approved in writing, be listed on the Approved Product List for Erosion Control Products based upon Class and Type, and shall not contain UV degradable, photodegradable or polypropylene materials.

Item 275: Cement Treatment (Road-Mixed)

No strength requirement is specified. The target cement content is 3%.

Compact and sprinkle pulverized sections for dust control as directed for traffic use.

Cement treat pulverized sections within 2 days, unless otherwise approved.

Pulverization and cement treatment of the existing roadway will not be allowed from October 1 through March 31 without written permission.

Item 354: Planing and Texturing Pavement

Complete planing operations in adjacent lanes and shoulders to the same point at the end of each day.

RAP produced from this project may be used in the HMA mixtures. All RAP not utilized in the HMA shall be delivered to the TxDOT maintenance facility located at Angelina County Maintenance Facility, 1410 Kurth Drive, Lufkin, TX 75901.

Blade the existing paved shoulders prior to planing operations to remove existing overgrowth. This work will be subsidiary to Item 354.

Cut the existing shoulder pavement to drain water away from planed travel lanes. This work will be subsidiary to various bid items.

Use an approved ski device to control longitudinal grade.

Where the underlying flexible base is exposed during the planing operation, prime exposed area with asphalt at the rate directed and patch with an approved HMA material at the end of the day's operation in which it occurs. These items of work will not be paid for directly but will be subsidiary to Item 354.

Item 400: Excavation and Backfill for Structures

Unless otherwise approved when cutting an existing roadway open to traffic, complete all operations including structural excavation, laying pipe and backfilling within daylight hours the day they are initiated.

Replace excavated material deemed unsuitable for backfilling with material approved by the Engineer, paid for under the pertinent bid items or as extra work. This provision does not apply to excavated materials that are too wet and are replaced for the contractor's convenience to expedite the work.

When excavation does not generate enough material to complete the backfill, additional material must be approved prior to use. Additional material will be subsidiary to various bid items.

Item 420: Concrete Substructures

Unless otherwise approved limit work on structures crossing the roadway to one side of the roadway at a time. No work shall begin on the opposite side of the roadway until backfilling of the initially extended portion of the structure is completed.

Item 421: Hydraulic Cement Concrete

The Engineer will provide curing facilities and strength testing equipment for acceptance testing located at the Lufkin Area Engineer Office, 1805 N. Timberland Dr., Lufkin, TX 75901.

Item 422: Concrete Superstructures

Saw-cut grooves are not required on frontage road bridges.

Item 427: Surface Finishes for Concrete

Provide a rub finish for the following Surface Area I listed elements:

- Surfaces of railing
- Exterior vertical faces of fascia girders
- The outside bottom surface of fascia girders
- The underside of overhanging slabs to the point of juncture of supporting girder
- Vertical and underside surfaces of bents

- All surfaces of abutments, bridge wingwalls, culvert headwalls and wingwalls, and retaining walls exposed to view after backfill and embankment is placed

Provide concrete paint finish colors for the bridges as approved by the Engineer.

Item 432: Riprap

Riprap (Stone Protection) shall have a minimum thickness of 27 inches for Mill Creek Bridges and 12 inches for Wetland Bridges and will require the placement of filter fabric prior to placement of stones.

Welded wire fabric will not be allowed for reinforcing concrete riprap. Reinforcing shall consist of No. 3 or 4 bars meeting the requirements of grade 60 reinforcing steel. Place bars on 12 in. centers in each direction, supported on reinforcing chairs.

Item 449: Anchor Bolts

Pipe joint compound, as used in this item, is an electrically conducting protective thread lubricant compound to be used on the foundation anchor bolts for high mast illumination poles. (Crouse-Hinds TL-2, OZ/Gedney STL, Thomas & Betts Kopr-Shield.)

Item 454: Bridge Expansion Joints

The approved expansion joint systems for Header Joints (Item 454) and Asphalt Plug Joints (SS 4013) is available from the Department's website at:

<http://www.txdot.gov/inside-txdot/division/bridge/approved-systems/expansion-joints.html>

Item 462: Concrete Box Culverts and Drains

Limit work on box culverts crossing the roadway to one side of the roadway at a time. No work shall begin on the opposite side of the roadway until backfilling of the first side of the box culvert being extended is complete.

Item 464: Reinforced Concrete Pipe

Lay each private entrance or side road pipe culvert to the line and grade as directed.

Limit work on pipe culverts crossing the road to one side of the roadway at a time. No work shall begin on the opposite side of the roadway until backfilling the first side of the pipe culvert being extended is complete.

When excavation does not generate enough material to complete the backfill, additional material must be approved prior to use and will be paid for under Item 132.

Item 465: Junction Boxes, Manholes, and Inlets

All junction boxes, manholes, and inlets are to be precast unless otherwise shown on the plans or directed by the Engineer.

As shown on storm sewer layouts in the plans, construct concrete gutter matching the adjoining curb and gutter in width and depth as an integral part of the inlet and inlet extension. Reinforce the gutter with No. 4 reinforcing bars spaced as directed and extended into the wall of the inlet or inlet extension.

Depress gutter lines 3 in. at all inlets and extensions.

Construct inlets in a manner to allow drainage of the subgrade during construction.

Construct inlets in two stages, the top portion (stage two) shall be cast in place.

Item 466: Headwalls and Wingwalls

Provide cast-in-place headwalls and wingwalls.

Item 467: Safety End Treatment

Use Type II precast concrete units of the same style and design.

Provide 12 in. deep toewalls on Type II precast safety end treatments.

Check each location where safety end treatments are to be installed to verify pipe lengths shown will produce the desired slope. Extra pipe will be paid for, but removing and replacing safety end treatment units previously installed under this Contract will not be paid for.

Place safety end treatments along the same slope as the pipe.

Item 471: Frames, Grates, Rings, and Covers

Clean and paint iron castings in accordance with Item 446, "Cleaning and Painting Steel".

Item 496: Removing Structures

Contractor to provide a minimum 20 business-day notice to the Engineer prior to beginning any demolition activities.

Item 502: Barricades, Signs, and Traffic Handling

Traffic Control Plan (TCP):

Ensure the Contractor's Responsible Person (CRP) or their alternate for Barricades, Signs and Traffic Handling is available at all times and able to receive instructions from the Engineer or authorized Department representative. The CRP shall be a person that is usually at the project site during normal working hours.

For protection of the traveling public, direct traffic through the work area using signs, flaggers and other devices. Required signs are shown in the plans on the Barricade and Construction Standards and Traffic Control Plan Sheets. The latest edition of the "Texas Manual on Uniform Traffic Control Devices" shall also be used as a guide for handling traffic on this project.

When pavement work begins, use flashing arrow panels and flaggers 24 hr. per day during inclement weather or as directed.

Install "No Center Line" (CW8-12) signs at 2-mile intervals. Install "Loose Gravel" (CW8-7) and "Next XX Miles" (CW7-3aP) signs as directed prior to the start of surface treatment operations.

In general, restrict construction work to single lane widths. Control traffic in accordance with standard drawings WZ(BTS-1) "Traffic Signal Installation Typical Details"; WZ(BTS-2) "Traffic Signal Installation Barricades and Signs"; and, Part VI of the "Texas Manual on Uniform Traffic Control Devices for Streets and Highways". Unless otherwise approved, use an advance warning, flashing arrow panel in addition to the necessary signs, barricades, or other traffic control devices at the work area.

Lane closures shall conform to the Traffic Control Plan for lane closures as shown in the plans. No overnight closures will be permitted.

Limit lane closures for multilane roads (4 or more lanes) to 2 mi. in length, unless otherwise approved.

Lane closure lengths can exclude the end tapers.

Plan the sequence of work to minimize the time lane closures are in place. Install lane closures only where construction operations are anticipated to start within 1 hr. and limited to the amount of lane that can be reached by the construction activity within 2 hr. unless otherwise approved.

Provide flashing arrow panels to supplement required signs and devices for lane closures.

Use a flashing arrow board in addition to the required signs to warn motorists of flaggers.

Provide temporary rumble strips as shown on work zone rumble strip standards.

When necessary, provide a pilot car to lead traffic through the work area. The pilot car will not be paid for directly, but will be subsidiary to various bid items.

Halt traffic during the time asphalt is being applied to the roadway. No vehicles will be allowed to pass the asphalt distributor during asphalt application.

Provide adequate flaggers to protect the traveling public when working on or near a roadway carrying traffic. All flaggers shall wear hardhats and reflective vests.

Install "Be Prepared to Stop" (CW3-4) and "Flagger Ahead" (CW20-7aD) signs when flaggers are present. Position the signs where good visibility and traffic control can be maintained.

Use a flashing arrow board in addition to the required signs to warn motorists of flaggers.

Use additional flaggers at roadway intersections to direct traffic entering the work area, when deemed necessary by the Engineer.

Open all traffic lanes to traffic at the close of work each day.

Install "Pavement Ends" (CW8-3) and "30 mph" (CW13-1P) signs where the paved surface of the road ends. Use flashing arrow panels to supplement these signs during nighttime hours.

Provide one high-intensity yellow, rotating dome-light on all equipment such as distributors, spreader boxes, lay-down machines, dump trucks, rollers, backhoes, road graders, loaders, etc. within the work zone. Mount lights high enough to be visible from all directions and operating when the equipment is in the work zone. On all other equipment such as automobiles, trailers, etc. use emergency flashers while within the work zone.

Install "Shoulder Drop-Off" (CW8-17) and "Uneven Lanes" (CW8-11) signs at one-half mile spacings as the hot mix asphalt is placed, unless otherwise directed. Maintain signs until the condition is eliminated.

Install vertical panels or drums at 100-ft. spacings where drop-offs or construction work occurs along edges of existing pavement. Unless otherwise authorized, these shall remain in place until final striping.

Install "Slow Down on Wet Road" (CW8-5aT), "Shoulder Drop-Off" (CW8-17), "Uneven Lanes" (CW8-11), "Bump" (CW8-1) and "Soft Shoulder" (CW8-4) signs during construction as directed.

Restrict construction operations so that no drop off along the edge of pavement will remain overnight.

All blading, rolling and scraper work to construct and remove temporary slopes adjacent to pavement drop-offs, will be considered subsidiary to various bid items.

Notify the Engineer prior to placing any materials or equipment on the right of way. Locate equipment, stockpiles or other materials not in use as far as possible from the driving lanes and in no case closer than 30 ft. unless otherwise authorized. Any equipment, stockpiles, or materials placed within 30 ft. of the driving lane must have adequate signs, barricades or other warning devices as approved. As a minimum place an 8 ft. wide TY III Barricade or barrels on the approach side of each site that is within 30 ft. of the driving lane. Use TY III Barricade or barrels for the site similarly on the departure side if the location is within 30 ft. of the opposing traffic lane.

Law enforcement assistance will be required for this project and is expected to be required for major traffic control changes and lane closures. Coordinate with local law enforcement and arrange for law enforcement as directed or agreed by the Engineer. 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.

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.

Texas Transportation Code 547.105 authorizes the use of warning lights to promote safety and provides an effective means of gaining the travelling public's attention as they drive in areas where construction crews are present. In order to influence the public to move over when high risk construction activities are taking place, minimize the utilization of blue warning lights. These lights must be used only while performing work on or near the travel lanes or shoulder where the travelling public encounters construction crews that are not protected by a standard work zone set up such as a lane closure, shoulder closure, or one-way traffic control. Refrain from leaving the warning lights engaged while travelling from one work location to another or while parked on the right of way away from the pavement or a work zone.

Temporary stop lines as shown on TCP (2-2)-18 should be omitted.

Provide an illuminated flagger station when nighttime work is performed.

Install "Stay Alert" (G20-10T) and "OBEY" (R20-3T) signs at the beginning of the construction zone at "T" intersections as directed.

All workers on TxDOT right-of-way shall wear reflective clothing meeting ANSI Class II requirements during the day and ANSI Class III requirements during the night.

Item 504: Field Office and Laboratory

Provide temperature-controlled Type A Structure (Field Laboratory) fully equipped to perform Tex-418-A Compressive Strength of Cylindrical Concrete Specimens including but not limited to concrete break machine, curing tanks and plastic cylinder molds. Maintain and calibrate the equipment as required by TxDOT Quality Assurance Program (QAP).

Provide a Type D Structure. Asphalt content will be determined by the ignition method.

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

Locations and types of BMPs may require adjustments prior to or after placement as directed by the Engineer. Adjustments should be made to ensure BMPs are working effectively and maintain compliance with the Construction General Permit. Notify the Engineer prior to making adjustments.

Furnish compost for core material in biodegradable erosion control logs.

The Contractor shall place all the construction fencing called out in the plans, prior to the start of preparing right of way. See "Roadway Plan & Profile Sheets" for locations of construction fencing.

Item 508: Constructing Detours

The Detour Summary Sheet contains estimated detour quantities based on the layouts, profiles, typical sections, cross sections and type of temporary structure contained in the plans. These quantities are provided for information only. The type of detour drainage structure shown in the plans is provided for a basis to bid this project. The quantities of MBGF, guardrail end treatments and other safety appurtenances are based on the structure and detour shown in the plans. Detour drainage structures other than what is specified in the plans may be provided as approved.

All base and surfacing materials to be used on the detour(s) shall meet the approval of the Engineer. Testing and compaction requirements for these materials may be waived by the Engineer.

Item 512: Portable Concrete Traffic Barrier

Repair or replace any damage to pavement and/or bridge deck caused by installing, moving, or removing barrier sections at the contractor's expense.

Low profile portable concrete barrier will require 360 degree reflectors for visibility.

Item 514: Permanent Concrete Traffic Barrier

Provide cast-in-place permanent concrete traffic barrier.

Use Class C concrete.

Use a rub finish on permanent concrete traffic barrier.

Item 529: Concrete Curb, Gutter, and Combined Curb and Gutter

Concrete curb for the metal beam guard fence transition shall have one No. 3 or No. 4 bar for longitudinal reinforcement. Dowel the curb into the pavement structure using 12 in. long No. 3 or No. 4 bars at 18 in spacing.

Item 530: Intersections, Driveways, and Turnouts

Welded wire fabric will not be allowed for reinforcing concrete driveways. Use reinforcing steel consisting of No. 3 or 4 bars meeting the requirements of grade 60 reinforcing steel. Place bars on 12 in. centers in each direction, supported on reinforcing chairs.

Unless otherwise directed, install 1/2 in. pre-molded expansion joint material between existing concrete and new concrete.

Item 531: Sidewalks

Welded wire fabric will not be allowed for reinforcing sidewalks. Use reinforcing steel consisting of No. 3 or 4 bars meeting the requirements of grade 60 reinforcing steel. Place bars on 12 in. centers in each direction, supported on reinforcing chairs.

Unless otherwise directed, install 1/2 in. pre-molded expansion joint material between existing concrete and new concrete.

Construct curb ramps and landings with a minimum depth of 4 inches, unless otherwise shown in the plans.

Item 540: Metal Beam Guard Fence

Use round timber posts.

Use timber post on all metal beam guard fence installations except where steel posts are required. Determine length of steel posts for low fill culvert post mounting in the field to insure proper metal beam guard fence height.

At the close of work each day, protect the ends of metal beam guard fence in an approved manner, so that no blunt ends are exposed to approaching traffic. Plastic drums will be required at these locations.

Item 542: Removing Metal Beam Guard Fence

All Metal Beam Guard Fence material and hardware shall become property of the contractor.

Item 545: Crash Cushion Attenuators

See the Crash Cushion Summary Sheet.

Item 556: Pipe Underdrains

Use Type *B* filter material.

Item 560: Mailbox Assemblies

Mailboxes located next to sidewalks shall be ADA compliant.

Repair and, if necessary, replace mailboxes damaged by construction operations.

The number and type of mailbox assemblies shown in the plans are for estimating purposes; actual quantities may vary.

Use 1 size 3 reflector mounted on the upstream and downstream sides of the post as directed for single and double mailbox assemblies.

Use 1 strip of reflective sheeting on the upstream and downstream sides of post for multiple mailbox assemblies in lieu of the Type 2 object marker shown on the mailbox standards. Each strip shall be approximately 12 in. wide. Use reflective sheeting conforming to DMS-8600.

Item 585: Ride Quality for Pavement Surfaces

Use Surface Test Type B pay adjustment schedule 2 for Penalty.

Item 618: Conduit

When conduit is laid in a trench or bored, minimum depth to the top of the conduit shall be 3 ft. Where obstructions prevent laying conduit at this depth, place conduit at the maximum depth possible.

Where a trench for laying conduit is cut through pavement, surfaced shoulder, median or driveway, replace the base and surfacing with similar materials equal in appearance and quality to the original construction. Replacing base and surfacing will be subsidiary to Item 618.

Place conduit under existing pavement by boring unless otherwise directed. Pits for boring shall not be closer than 2 ft. from edge of pavement unless otherwise approved. Water jetting will not be permitted. At the close of work each day, cover all open pits and barricade for safety.

When boring is used for under-pavement conduit installations, maximum allowable overcut shall be 1 in. diameter.

Use of a pneumatically driven device for punching holes beneath pavement (commonly known as a "missile") will not be permitted on this project.

All underground conduit bends of 45° or more in PVC conduit systems, including bends into ground boxes, shall be made with rigid metal conduit. Where rigid metal conduit is exposed at any point and where rigid metal conduit extends into ground boxes, bond the metal conduit to the grounding conduction with grounding type bushings or by other approved UL listed grounding connectors. Rigid metal bends will not be paid for separately but will be incidental to the PVC conduit system.

The location of conduits is diagrammatic only and may be shifted to accommodate field conditions as directed.

Item 624: Ground Boxes

Location and estimated number of ground boxes are diagrammatic only. The location and number of ground boxes may vary to accommodate field conditions as directed.

Item 644: Small Roadside Sign Assemblies

Install adjacent signs with bottom edges at equal heights.

Sign placement shall be in accordance with the "Sign Crew Field Book" and as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where

necessary to secure a more desirable location or to avoid conflict with utilities. Stake all sign support locations for verification and approval.

Existing supports shall not be reused, and shall become the property of the Contractor.

Salvage all sign blanks to be removed and deliver the same day to TxDOT's facility at Angelina County Maintenance Facility, 1410 Kurth Drive, Lufkin, TX 75901.

Place relocated signs as close as feasible to existing signs, unless placement conflicts with the Sign Crew Field Book.

Prior to ordering signs, advisory speeds at horizontal curves shall be verified by the department.

Wrap red retroreflective tape (NGIP Code 801-49-87-1008) around the support post of all STOP, YIELD, and DO NOT ENTER signs. Tape shall be placed approximately 4 feet above the surface of the edge of the roadway adjacent to the sign and shall be wrapped to a height of 12 inches. The tape and the placement of the tape on the sign posts shall be subsidiary to the sign assembly.

Item 656: Foundations for Traffic Control Devices

Note and heed all utility warnings before digging in the vicinity of underground utilities.

Before excavating for foundations, take adequate precautions, by probing or uncovering by hand, to prevent damage to storm sewers and public or private utilities. Locations of utility lines and cables shown in the plans are approximate. Other lines and cables may have been installed since completion of these plans.

Item 658: Delineator and Object Marker Assemblies

Install delineators on the departure side of the posts when mounting to metal beam guard fence and guardrail end treatments.

Install CTB barrier reflectors on top of concrete bridge rail and concrete barriers.

Install D-SW delineators on the departure side of steel bridge rail posts.

Item 662: Work Zone Pavement Markings

Place standard work zone pavement markings before traffic is routed over detours.

Standard work zone pavement markings shall be paint and glass beads or thermoplastic.

Install short term pavement markings (removable) on the hot mix asphalt immediately following final rolling.

After placement of permanent striping on the finish course, remove all short term pavement markings.

Furnish Type II glass beads conforming to DMS-8290, "Glass Traffic Beads", for hot applied thermoplastic and traffic paint markings.

Item 666: Reflectorized Pavement Markings

Remove loose aggregate immediately prior to placing pavement markings.

Type I markings must meet the minimum retroreflectivity values for edgeline markings, centerline or no passing barrier-line, and lane lines when measured any time after 3 days, but not later than 10 days after application.

Before construction operations begin, observe and mark existing passing/no passing zones. Passing/no passing zones shall be verified prior to placement of permanent pavement markings.

Furnish Type II glass beads conforming to DMS-8290, "Glass Traffic Beads", for Type I and II Markings.

Use Type II pavement markings as a sealer for Type I pavement markings.

Place a minimum of 500 ft. of 4 in. double yellow no passing lines on the approach to all stop condition intersections for two lane roads unless otherwise shown in the plans or directed.

Item 672: Raised Pavement Markers

Place permanent raised pavement markers after permanent striping has been completed.

Item 3076: Dense-Graded Hot-Mix Asphalt

Trial batches may be required whenever the design has not been produced in the previous 12 months. Trial batches will be subsidiary to the bid item.

No surface aggregate classification is required.

TX-203 Will be ran on the complete mix and a requires minimum of 45%

No Department-owned RAP is available.

RAP produced from this project may be used in the HMA mixtures. All RAP not utilized in the HMA shall be the property of the Contractor.

Provide a tack that meets the requirements of Item 300, Table 3A or Table 10A, unless otherwise approved by the engineer.

Operate the spreading and finishing machine at a uniform forward speed consistent with the plant production rate, hauling capability, and roller train capacity to result in a continuous operation. The speed shall be slow enough so that stopping between trucks is not ordinarily required. If, in the opinion of the Engineer, sporadic delivery of material is adversely affecting the HMA placement, the Engineer may require paving operations to cease until acceptable methods are employed to minimize starting and stopping of the paver.

A material transfer vehicle (MTV) will be required for all courses of HMA on this project. An MTV is defined as a self-propelled, wheel-mounted vehicle capable of receiving HMA from the haul trucks separate from the paver. The MTV shall have a minimum storage capacity of approximately 25 tons and shall be equipped with a pivoting discharge conveyor and a means of completely remixing the HMA prior to placement.

Add hydrated lime to all HMA mixtures at a minimum rate of 1.0% by weight of the total aggregate, except for those mixtures containing RAP and/or RAS. Mixtures that contain RAP and/or RAS shall be designed at a rate of minimum 0.5 % of lime by weight and the test results will be evaluated by the engineer to determine if lime or a liquid anti-strip additive will be used. The hydrated lime shall meet the requirements of DMS-6350, "Lime and Lime Slurry". The hydrated lime shall be added in accordance with the construction method in Item 301, "Asphalt Antistripping Agents". This lime will be subsidiary to this item.

Cover each load of mixture with waterproof tarpaulins.

Limit uneven pavement to 2 days production.

For HMA placements greater than 2 inches, construct longitudinal joints adjacent to travel ways with a maximum 1 inch vertical edge and an adjacent 3:1 maximum taper.

Along outside pavement edges construct a 3:1 maximum taper or backfill the same day as shown on the plans or as directed.

Remove and properly dispose of any piles of asphaltic concrete and all other debris left on the right of way daily.

Item 6185: Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)

Two (2) TMAs (stationary) will be required for this project. The contractor will be responsible for determining if multiple operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

Three (3) TMAs will be required on all divided highways for mobile operations and two (2) TMAs will be required on all other roadways for each mobile operation. Quantities were estimated based on one mobile working operation, as per the number of working days. If multiple crews are utilized, additional TMAs will be required.

Item 6367: Installation of Traffic Management Equipment

Equipment for Field Hardened Ethernet switches and Cellular Modems for this project will be stored by the Department for pick up at TxDOT Lufkin District Office, 1805 N. Timberland Dr., Lufkin, TX 75901.

CONTROL : 0176-02-118, ETC
PROJECT : F 2021(440), ETC
HIGHWAY : US 59
COUNTY : ANGELINA

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 NOVEMBER 1, 2014.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (103)
ITEM 103 DISPOSAL OF WELLS (100)
ITEM 104 REMOVING CONCRETE
ITEM 105 REMOVING TREATED AND UNTREATED BASE AND ASPHALT PAVEMENT
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (100) (160) (204) (210) (216) (260) (400)
ITEM 160 TOPSOIL (168)
ITEM 162 SODDING FOR EROSION CONTROL (166) (168)
ITEM 164 SEEDING FOR EROSION CONTROL (162) (166) (168)
ITEM 168 VEGETATIVE WATERING
ITEM 169 SOIL RETENTION BLANKETS
ITEM 180 WILDFLOWER SEEDING
ITEM 260 LIME TREATMENT (ROAD-MIXED) (105) (132) (204) (210) (216)
(247) (300) (310) (520) (3096)
ITEM 275 CEMENT TREATMENT (ROAD-MIXED) (132) (204) (210) (216) (247)
(300) (310) (520) (3096)
ITEM 310 PRIME COAT (300) (316) (3096)
ITEM 354 PLANING AND TEXTURING PAVEMENT
ITEM 360 CONCRETE PAVEMENT (421) (422) (438) (440) (529) (585)
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (110) (132) (401)
(402) (403) (416) (420) (421) (423)
ITEM 401 FLOWABLE BACKFILL (421)
ITEM 402 TRENCH EXCAVATION PROTECTION
ITEM 403 TEMPORARY SPECIAL SHORING (410) (411) (423)
ITEM 416 DRILLED SHAFT FOUNDATIONS (405) (420) (421) (423) (440) (448)
ITEM 420 CONCRETE SUBSTRUCTURES (400) (404) (421) (422) (426) (427)
(440) (441) (448)
ITEM 422 CONCRETE SUPERSTRUCTURES (420) (421) (424) (438) (440) (448)
(454) (780)

ITEM 425 PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS (409)
 (420) (421) (424) (426) (427) (434) (440) (442) (445) (448)
 ITEM 427 SURFACE FINISHES FOR CONCRETE (420)
 ITEM 432 RIPRAP (247) (420) (421) (431) (440)
 ITEM 442 METAL FOR STRUCTURES (441) (445) (446) (447) (448)
 ITEM 450 RAILING (420) (421) (422) (424) (440) (441) (442) (445) (446)
 (448) (540)
 ITEM 454 BRIDGE EXPANSION JOINTS (442) (785)
 ITEM 462 CONCRETE BOX CULVERTS AND DRAINS (400) (402) (403) (420)
 (421) (422) (424) (440) (464) (476)
 ITEM 464 REINFORCED CONCRETE PIPE (400) (402) (403) (467) (476)
 ITEM 465 JUNCTION BOXES, MANHOLES, AND INLETS (400) (420) (421) (424)
 (440) (471)
 ITEM 466 HEADWALLS AND WINGWALLS (400) (420) (421) (432) (440) (464)
 ITEM 467 SAFETY END TREATMENT (400) (420) (421) (432) (440) (442) (445)
 (460) (464)
 ITEM 479 ADJUSTING MANHOLES AND INLETS (400) (421) (465) (471)
 ITEM 496 REMOVING STRUCTURES
 ITEM 500 MOBILIZATION
 ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
 ITEM 504 FIELD OFFICE AND LABORATORY
 ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL
 CONTROLS (161) (432) (556)
 ITEM 508 CONSTRUCTING DETOURS
 ITEM 512 PORTABLE TRAFFIC BARRIER (420) (421) (424) (440) (442)
 ITEM 514 PERMANENT CONCRETE TRAFFIC BARRIER (400) (416) (420) (421)
 (424) (440) (442) (448)
 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) (341) (360) (421) (440)
 (3076)
 ITEM 531 SIDEWALKS (104) (360) (420) (421) (440) (530)
 ITEM 533 MILLED RUMBLE STRIPS
 ITEM 540 METAL BEAM GUARD FENCE (421) (441) (445) (529)
 ITEM 542 REMOVING METAL BEAM GUARD FENCE
 ITEM 544 GUARDRAIL END TREATMENTS
 ITEM 545 CRASH CUSHION ATTENUATORS (421)
 ITEM 556 PIPE UNDERDRAINS (402) (432)
 ITEM 560 MAILBOX ASSEMBLIES
 ITEM 610 ROADWAY ILLUMINATION ASSEMBLIES (416) (421) (432) (441) (442)
 (445) (449) (614) (616) (618) (620) (622) (624) (628)
 ITEM 618 CONDUIT (400) (476)
 ITEM 620 ELECTRICAL CONDUCTORS (610) (628)
 ITEM 624 GROUND BOXES (420) (421) (432) (440) (618) (620)
 ITEM 628 ELECTRICAL SERVICES (441) (445) (449) (618) (620) (627) (656)
 ITEM 636 SIGNS (643)
 ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421) (440) (441) (442) (445)
 (636) (643) (656)
 ITEM 647 LARGE ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (416) (421)
 (440) (441) (442) (445) (636)
 ITEM 650 OVERHEAD SIGN SUPPORTS (416) (420) (421) (441) (442) (445)
 (449) (618) (636) (654)
 ITEM 654 SIGN WALKWAYS (441) (445)

ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
 ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(668)(672)(677)
 ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS (316)(502)(662)(677)
 (678)
 ITEM 668 PREFABRICATED PAVEMENT MARKINGS (678)
 ITEM 672 RAISED PAVEMENT MARKERS (677)(678)
 ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)
 (302)(316)(3096)
 ITEM 678 PAVEMENT SURFACE PREPARATION FOR MARKINGS (677)

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, MAY, 2012)

WAGE RATES

SPECIAL PROVISION "NONDISCRIMINATION" (000---002)
 SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"
 (000---003)
 SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
 ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE
 ORDER 11246" (000---004)
 SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
 CONSTRUCTION CONTRACT SPECIFICATIONS" (000---005)
 SPECIAL PROVISION "ONTHEJOB TRAINING PROGRAM" (000---006)
 SPECIAL PROVISION "AMERICANS WITH DISABILITIES ACT CURB RAMP WORKSHOP
 " (000---025)
 SPECIAL PROVISION "CERTIFICATE OF INTERESTED PARTIES (FORM 1295)"
 (000--1019)
 SPECIAL PROVISION "CARGO PREFERENCE ACT REQUIREMENTS IN FEDERAL AID
 CONTRACTS" (000---241)
 SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL AID
 CONTRACTS" (000---394)
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---395)
 SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---658)
 SPECIAL PROVISION "NOTICE OF CONTRACTOR PERFORMANCE EVALUATIONS"
 (000---659)
 SPECIAL PROVISIONS TO ITEM 2 (002---009)(002---011)(002---013)
 SPECIAL PROVISIONS TO ITEM 3 (003---011)(003---013)
 SPECIAL PROVISIONS TO ITEM 5 (005---002)(005---003)
 SPECIAL PROVISIONS TO ITEM 6 (006---001)(006---012)
 SPECIAL PROVISIONS TO ITEM 7 (007---004)(007---008)(007---010)
 (007---011)
 SPECIAL PROVISIONS TO ITEM 8 (008---003)(008---030)(008---033)
 SPECIAL PROVISIONS TO ITEM 9 (009---010)(009---011)
 SPECIAL PROVISION TO ITEM 247 (247---003)
 SPECIAL PROVISION TO ITEM 300 (300---020)
 SPECIAL PROVISION TO ITEM 302 (302---003)
 SPECIAL PROVISION TO ITEM 316 (316---002)
 SPECIAL PROVISION TO ITEM 334 (334---003)
 SPECIAL PROVISION TO ITEM 340 (340---004)

SPECIAL PROVISION TO ITEM 341 (341---004)
 SPECIAL PROVISION TO ITEM 342 (342---005)
 SPECIAL PROVISION TO ITEM 347 (347---003)
 SPECIAL PROVISION TO ITEM 348 (348---004)
 SPECIAL PROVISION TO ITEM 421 (421---010)
 SPECIAL PROVISION TO ITEM 426 (426---003)
 SPECIAL PROVISION TO ITEM 427 (427---003)
 SPECIAL PROVISION TO ITEM 440 (440---004)
 SPECIAL PROVISION TO ITEM 441 (441---004)
 SPECIAL PROVISION TO ITEM 442 (442---001)
 SPECIAL PROVISION TO ITEM 446 (446---005)
 SPECIAL PROVISION TO ITEM 447 (447---001)
 SPECIAL PROVISION TO ITEM 448 (448---001)
 SPECIAL PROVISION TO ITEM 449 (449---002)
 SPECIAL PROVISION TO ITEM 450 (450---001)
 SPECIAL PROVISION TO ITEM 462 (462---002)
 SPECIAL PROVISION TO ITEM 464 (464---001)
 SPECIAL PROVISION TO ITEM 465 (465---001)
 SPECIAL PROVISION TO ITEM 502 (502---008)
 SPECIAL PROVISION TO ITEM 506 (506---005)
 SPECIAL PROVISION TO ITEM 520 (520---002)
 SPECIAL PROVISION TO ITEM 540 (540---001)
 SPECIAL PROVISION TO ITEM 636 (636---001)
 SPECIAL PROVISION TO ITEM 643 (643---001)
 SPECIAL PROVISION TO ITEM 650 (650---001)
 SPECIAL PROVISION TO ITEM 654 (654---001)
 SPECIAL PROVISION TO ITEM 656 (656---001)
 SPECIAL PROVISION TO ITEM 666 (666---007)
 SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 6185 (6185--002)
 SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 7032 (7032--001)

SPECIAL SPECIFICATIONS:

 ITEM 3076 DENSE-GRADED HOT-MIX ASPHALT (300) (301) (316) (320) (340)
 (341) (342) (347) (348) (520) (585) (3079) (3081) (3082) (3096)
 ITEM 3079 PERMEABLE FRICTION COURSE (PFC) (300) (301) (320) (342) (520)
 (585) (3096)
 ITEM 3081 THIN OVERLAY MIXTURES (TOM) (300) (301) (320) (347) (520)
 (585) (3096)
 ITEM 3082 THIN BONDED FRICTION COURSES (210) (300) (301) (320) (342)
 (348) (520) (585) (3079) (3096)
 ITEM 3096 ASPHALTS, OILS, AND EMULSIONS
 ITEM 6001 PORTABLE CHANGEABLE MESSAGE SIGN
 ITEM 6028 INSTALLATION OF DYNAMIC MESSAGE SIGN SYSTEM (432) (441)
 (445) (449) (618) (620)
 ITEM 6185 TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)
 ITEM 6367 INSTALLATION OF TRAFFIC MANAGEMENT EQUIPMENT
 ITEM 7032 WATER MAINS AND SERVICE LINES

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.