

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 5/31/2016

Control	0015-09-180, ETC.
Project	C 15-9-180, ETC.
Highway	IH 35
County	WILLIAMSON

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: C 15-9-180

CONTROL: 0015-09-180

COUNTY: WILLIAMSON

LETTING: 06/08/2016

REFERENCE NO: 0527

PROPOSAL ADDENDUMS

X PROPOSAL COVER

X BID INSERTS (SH. NO.: 1, 10 THRU 19)

X GENERAL NOTES (SH. NO.: H, J, L THRU BB)

X SPEC LIST (SH. NO.: 3-4)

X SPECIAL PROVISIONS:

ADDED: 000---008, 000---009

DELETED: 000---003, 000---004, 000---005, 000---006, 000---007,
000---241,

— SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: SEE CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

NEW SBE GOAL Y

PROPOSAL COVER -

PROJECT NUMBER WAS REVISED

GOALS -

CHANGED FROM DBE TO SBE

SPEC LIST -

DELETED REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS
(FORM FHWA 1273, MAY, 2012)

DELETED (000---003), (000---004), (000---005), (000---006), (000---007),
(000---241)

ADDED (000---008), (000---009)

BID INSERTS -

DELETED 132.6004

ADDED 132.6003

ADDED 529.6018

PLAN SHEET 1 - CHANGED FEDERAL PROJECT NUMBER TO STATE PROJECT NUMBER.

CHANGED FEDERAL SPECIFICATION NOTE TO STATE NOTE.

DESCRIPTION OF ABOVE CHANGES

(CONTINUED)

(INCLUDING PLANS SHEET CHANGES)

PLAN SHEET 8D (SPEC DATA H) - DELETED 7TH NOTE ON SHEET H UNDER ITEM 8.

PLAN SHEET 8E (SPEC DATE J) - DELETED NOTES FOR ITEM 132 - EMBANKMENT TY B

PLAN SHEET 8F (SPEC DATA L) - ADDED NOTES FOR ITEM 316.

PLAN SHEET 8H (SPEC DATA O) - R VISED FIRST NOTE FOR ITEM 423 CHANGING
SPACING TO 12 IN.

PLAN SHEETS 8F THRU 8N (SPEC DATA L THRU BB) - NOTES SHIFTED FROM PAGE TO
PAGE.

PLAN SHEET 8O - DELETED ITEM 132.6004

PLAN SHEET 8O- ADDED ITEM 132.6003

PLAN SHEET 8Q- ADDED ITEM 529.6018

PLAN SHEET 8Q THRU 8S - ITEMS SHIFTED FROM PAGE TO PAGE

PLAN SHEET 12 - DELETED ITEM 132.6004
- ADDED ITEM 132.6003

PLAN SHEET 14 - ADDED ITEM 529.6018

PLAN SHEETS 120, 229, 234, 243 - ADDED NOTE THAT CONTRACTOR TO CONTACT
ATMOS WHEN DIGGING IN VICINITY OF GAS LINE.

PLAN SHEETS 180-181 - REVISED TYPICAL SECTION

PLAN SHEET 282 - REPLACED

Control	0015-09-180, ETC.
Project	C 15-9-180, ETC.
Highway	IH 35
County	WILLIAMSON

PROPOSAL TO THE TEXAS TRANSPORTATION COMMISSION

2014 SPECIFICATIONS

WORK CONSISTING OF RAMP REVERSALS WILLIAMSON COUNTY, TEXAS

The quantities in the proposal are approximate. The quantities of work and materials may be increased or decreased as considered necessary to complete the work as planned and contemplated.

This project is to be completed in 289 working days and will be accepted when fully completed and finished to the satisfaction of the Executive Director or designee.

Provide a proposal guaranty in the form of a Cashier's Check, Teller's Check (including an Official Check) or Bank Money Order on a State or National Bank or Savings and Loan Association, or State or Federally chartered Credit Union made payable to the Texas Transportation Commission in the following amount:

ONE HUNDRED THOUSAND (Dollars) (\$100,000)

A bid bond may be used as the required proposal guaranty. The bond form may be detached from the proposal for completion. The proposal may not be disassembled to remove the bond form. The bond must be in accordance with Item 2 of the specifications.

Any addenda issued amending this proposal and/or the plans that have been acknowledged by the bidder, become part of this proposal.

By signing the proposal the bidder certifies:

1. the only persons or parties interested in this proposal are those named and the bidder has not directly or indirectly participated in collusion, entered into an agreement or otherwise taken any action in restraint of free competitive bidding in connection with the above captioned project.
2. in the event of the award of a contract, the organization represented will secure bonds for the full amount of the contract.
3. the signatory represents and warrants that they are an authorized signatory for the organization for which the bid is submitted and they have full and complete authority to submit this bid on behalf of their firm.
4. that the certifications and representations contained in the proposal are true and accurate and the bidder intends the proposal to be taken as a genuine government record.

• **Signed: ****

(1) _____ (2) _____ (3) _____

Print Name:

(1) _____ (2) _____ (3) _____

Title:

(1) _____ (2) _____ (3) _____

Company:

(1) _____ (2) _____ (3) _____

• Signatures to comply with Item 2 of the specifications.

**Note: Complete (1) for single venture, through (2) for joint venture and through (3) for triple venture.

*** When the working days field contains an asterisk (*) refer to the Special Provisions and General Notes.**

NOTICE TO CONTRACTORS

ANY CONTRACTORS INTENDING TO BID ON ANY WORK TO BE AWARDED BY THIS DEPARTMENT MUST SUBMIT A SATISFACTORY “AUDITED FINANCIAL STATEMENT” AND “EXPERIENCE QUESTIONNAIRE” AT LEAST TEN DAYS PRIOR TO THE LETTING DATE.

UNIT PRICES MUST BE SUBMITTED IN ACCORDANCE WITH ITEM 2 OF THE STANDARD SPECIFICATIONS OR SPECIAL PROVISION TO ITEM 2 FOR EACH ITEM LISTED IN THIS PROPOSAL.

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	89.020	1
	104	6009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	1,520.000	2
	104	6022		REMOVING CONC (CURB AND GUTTER) DOLLARS and CENTS	LF	606.000	3
	104	6037		REMOVE CONC (RAIL) DOLLARS and CENTS	LF	423.000	4
	105	6037		REMOVING STAB BASE AND ASPH PAV(0"- 16") DOLLARS and CENTS	SY	23,708.000	5
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	24,627.000	6
	132	6003		EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS	CY	12,816.000	7
	132	6006		EMBANKMENT (FINAL)(DENS CONT)(TY C) DOLLARS and CENTS	CY	1,344.000	8
	160	6003		FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS	SY	50,378.000	9
	164	6007		BROADCAST SEED (PERM) (URBAN) (CLAY) DOLLARS and CENTS	SY	50,567.000	10
	164	6041		DRILL SEEDING (TEMP) (WARM) DOLLARS and CENTS	SY	25,284.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	164	6043		DRILL SEEDING (TEMP) (COOL) DOLLARS and CENTS	SY	25,284.000	12
	168	6001		VEGETATIVE WATERING DOLLARS and CENTS	MG	2,507.000	13
	169	6002		SOIL RETENTION BLANKETS (CL 1) (TY B) DOLLARS and CENTS	SY	50,378.000	14
	247	6366		FL BS (CMP IN PLC)(TY A GR 5)(FNAL POS) DOLLARS and CENTS	CY	5,514.000	15
	310	6027		PRIME COAT(MC-30 OR AE-P) DOLLARS and CENTS	GAL	4,940.000	16
	316	6002		AGGR (MULTI OPTION) DOLLARS and CENTS	CY	3.000	17
	316	6005		ASPH (TIER II) DOLLARS and CENTS	GAL	121.000	18
	341	6008		D-GR HMA TY-B PG64-22 DOLLARS and CENTS	TON	15,371.000	19
	341	6040		D-GR HMA TY-D PG64-22 DOLLARS and CENTS	TON	1,997.000	20
	341	6043		D-GR HMA TY-D PG70-22 DOLLARS and CENTS	TON	885.000	21
	346	6014		STONE-MTRX-ASPH SMA-D SAC-A PG76-22 DOLLARS and CENTS	TON	1,611.000	22
	347	6003		TOM (ASPHALT) PG 70-22 DOLLARS and CENTS	TON	93.000	23

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	347	6006		TOM - C (AGGREGATE) SAC - B DOLLARS and CENTS	TON	1,199.000	24
	354	6021		PLANE ASPH CONC PAV(0" TO 2") DOLLARS and CENTS	SY	2,902.000	25
	400	6005		CEM STABIL BKFL DOLLARS and CENTS	CY	132.000	26
	400	6006		CUT & RESTORING PAV DOLLARS and CENTS	SY	201.000	27
	402	6001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	2,505.000	28
	403	6001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	9,023.000	29
	403	6002		TEMPORARY SPL SHORING (SOIL NAIL) DOLLARS and CENTS	SF	1,145.000	30
	410	6001		SOIL NAIL ANCHORS DOLLARS and CENTS	LF	4,438.000	31
	416	6001		DRILL SHAFT (18 IN) DOLLARS and CENTS	LF	66.000	32
	416	6003		DRILL SHAFT (30 IN) DOLLARS and CENTS	LF	60.000	33
	416	6004		DRILL SHAFT (36 IN) DOLLARS and CENTS	LF	240.000	34
	416	6015		DRILL SHAFT (NON - REINFORCED) (12 IN) DOLLARS and CENTS	LF	7.000	35

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	416	6018		DRILL SHAFT (SIGN MTS) (24 IN) DOLLARS and CENTS	LF	10.000	36
	416	6023		DRILL SHAFT (SIGN MTS) (54 IN) DOLLARS and CENTS	LF	72.000	37
	416	6029		DRILL SHAFT (RDWY ILL POLE) (30 IN) DOLLARS and CENTS	LF	64.000	38
	420	6011		CL B CONC (FLUME) DOLLARS and CENTS	CY	84.000	39
	420	6019		CL C CONC (ABUT)(EXTEND) DOLLARS and CENTS	CY	51.600	40
	420	6029		CL C CONC (CAP) DOLLARS and CENTS	CY	33.600	41
	420	6037		CL C CONC (COLUMN) DOLLARS and CENTS	CY	16.000	42
	420	6066		CL C CONC (RAIL FOUNDATION) DOLLARS and CENTS	CY	199.000	43
	422	6001		REINF CONC SLAB DOLLARS and CENTS	SF	6,578.000	44
	423	6002		RETAINING WALL (MSE) (ASHLAR STONE FIN) DOLLARS and CENTS	SF	10,587.000	45
	423	6024		RET WALL (SOIL NAIL)(ASHLAR FIN) DOLLARS and CENTS	SF	5,737.000	46
	425	6035		PRESTR CONC GIRDER (TX28) DOLLARS and CENTS	LF	306.700	47

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	425	6036		PRESTR CONC GIRDER (TX34) DOLLARS and CENTS	LF	429.670	48
	432	6002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	199.300	49
	432	6031		RIPRAP (STONE PROTECTION)(12 IN) DOLLARS and CENTS	CY	31.500	50
	432	6033		RIPRAP (STONE PROTECTION)(18 IN) DOLLARS and CENTS	CY	52.000	51
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	143.000	52
	438	6001		CLEANING AND SEALING EXISTING JOINTS DOLLARS and CENTS	LF	315.000	53
	442	6007		STR STEEL (MISC NON - BRIDGE) DOLLARS and CENTS	LB	480.000	54
	450	6006		RAIL (TY T223) DOLLARS and CENTS	LF	427.000	55
	450	6023		RAIL (TY SSTR) DOLLARS and CENTS	LF	2,902.000	56
	450	6032		RAIL (TY C223) DOLLARS and CENTS	LF	181.000	57
	450	6043		RAIL (TY PR2) DOLLARS and CENTS	LF	690.000	58
	454	6004		ARMOR JOINT (SEALED) DOLLARS and CENTS	LF	80.000	59

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	460	6003		CMP (GAL STL 24 IN) DOLLARS and CENTS	LF	197.000	60
	462	6002		CONC BOX CULV (3 FT X 3 FT) DOLLARS and CENTS	LF	12.000	61
	462	6053		CONC BOX CULV (5 FT X 5 FT)(EXTEND) DOLLARS and CENTS	LF	25.000	62
	462	6133		CONC BOX CULV (5 FT X 6.5 FT)(EXTEND) DOLLARS and CENTS	LF	50.000	63
	464	6003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	528.000	64
	464	6005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	3,121.000	65
	464	6007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	154.000	66
	464	6008		RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	516.000	67
	464	6009		RC PIPE (CL III)(42 IN) DOLLARS and CENTS	LF	260.000	68
	464	6010		RC PIPE (CL III)(48 IN) DOLLARS and CENTS	LF	15.000	69
	465	6002		MANH (COMPL)(PRM)(48IN) DOLLARS and CENTS	EA	1.000	70
	465	6012		JCTBOX(COMPL)(PJB)(8FTX8FT) DOLLARS and CENTS	EA	1.000	71

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	465	6013		INLET (COMPL)(PCO)(3FT)(NONE) DOLLARS and CENTS	EA	6.000	72
	465	6014		INLET (COMPL)(PCO)(3FT)(LEFT) DOLLARS and CENTS	EA	4.000	73
	465	6015		INLET (COMPL)(PCO)(3FT)(RIGHT) DOLLARS and CENTS	EA	2.000	74
	465	6016		INLET (COMPL)(PCO)(3FT)(BOTH) DOLLARS and CENTS	EA	11.000	75
	465	6022		INLET (COMPL)(PCO)(5FT)(LEFT) DOLLARS and CENTS	EA	1.000	76
	465	6024		INLET (COMPL)(PCO)(5FT)(BOTH) DOLLARS and CENTS	EA	6.000	77
	465	6029		INLET (COMPL)(PCU)(3FT)(NONE) DOLLARS and CENTS	EA	3.000	78
	465	6146		INLET(COMPL)(PSL)(SFG)(3FTX3FT-3FTX-3FT) DOLLARS and CENTS	EA	14.000	79
	465	6209		INLET (COMPL)(TY 1)(SPL) DOLLARS and CENTS	EA	3.000	80
	465	6225		JCT BOX (COMPL)(SPL) DOLLARS and CENTS	EA	1.000	81
	466	6103		HEADWALL (CH - PW - 0) (DIA= 48 IN) DOLLARS and CENTS	EA	1.000	82
	466	6179		WINGWALL (PW - 1) (HW=4 FT) DOLLARS and CENTS	EA	1.000	83

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	466	6182		WINGWALL (PW - 1) (HW=7 FT) DOLLARS and CENTS	EA	1.000	84
	466	6183		WINGWALL (PW - 1) (HW=8 FT) DOLLARS and CENTS	EA	1.000	85
	467	6359		SET (TY II) (18 IN) (RCP) (4: 1) (P) DOLLARS and CENTS	EA	4.000	86
	467	6360		SET (TY II) (18 IN) (RCP) (5: 1) (C) DOLLARS and CENTS	EA	1.000	87
	467	6378		SET (TY II) (24 IN) (CMP) (4: 1) (P) DOLLARS and CENTS	EA	1.000	88
	467	6389		SET (TY II) (24 IN) (RCP) (3: 1) (P) DOLLARS and CENTS	EA	1.000	89
	467	6394		SET (TY II) (24 IN) (RCP) (6: 1) (C) DOLLARS and CENTS	EA	2.000	90
	467	6395		SET (TY II) (24 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	4.000	91
	479	6002		ADJUSTING INLETS DOLLARS and CENTS	EA	2.000	92
	479	6006		ADJUSTING INLET (CAP) DOLLARS and CENTS	EA	1.000	93
	496	6002		REMOV STR (INLET) DOLLARS and CENTS	EA	1.000	94
	496	6004		REMOV STR (SET) DOLLARS and CENTS	EA	3.000	95

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	496	6005		REMOV STR (WINGWALL) DOLLARS and CENTS	EA	2.000	96
	496	6006		REMOV STR (HEADWALL) DOLLARS and CENTS	EA	4.000	97
	496	6007		REMOV STR (PIPE) DOLLARS and CENTS	LF	928.000	98
	496	6058		REMOV STR (BRIDGE SLAB) DOLLARS and CENTS	LF	423.000	99
	496	6100		REMOVE STR (GABION) DOLLARS and CENTS	LF	12.000	100
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	101
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	15.000	102
	506	6002	003	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	410.000	103
	506	6011	003	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	410.000	104
	506	6020	003	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	624.000	105
	506	6024	003	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	624.000	106
	506	6038	003	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	2,530.000	107

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	506	6039	003	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	2,530.000	108
	506	6041	003	BIODEG EROSN CONT LOGS (INSTL) (12") DOLLARS and CENTS	LF	1,090.000	109
	506	6043	003	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	1,090.000	110
	508	6001		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	7,414.000	111
	512	6005		PORT CTB (FUR & INST)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	5,910.000	112
	512	6029		PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	5,790.000	113
	512	6053		PORT CTB (REMOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	5,910.000	114
	528	6004		LANDSCAPE PAVERS DOLLARS and CENTS	SY	1,975.000	115
	529	6007		CONC CURB & GUTTER (TY I) DOLLARS and CENTS	LF	3,819.000	116
	529	6008		CONC CURB & GUTTER (TY II) DOLLARS and CENTS	LF	7,429.000	117
	529	6018		CONC CURB (TY F3) DOLLARS and CENTS	LF	530.000	118
	530	6005		DRIVEWAYS (ACP) DOLLARS and CENTS	SY	1,136.000	119

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	530	6016		DRIVEWAYS (BASE) DOLLARS and CENTS	SY	378.000	120
	531	6002		CONC SIDEWALKS (5") DOLLARS and CENTS	SY	7,245.000	121
	531	6010		CURB RAMPS (TY 7) DOLLARS and CENTS	EA	4.000	122
	533	6001		RUMBLE STRIPS (SHOULDER) DOLLARS and CENTS	LF	1,778.000	123
	540	6001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	1,925.000	124
	540	6006		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	5.000	125
	540	6016		DOWNSTREAM ANCHOR TERMINAL SEC- TION DOLLARS and CENTS	EA	4.000	126
	540	6018		MTL BM GD FEN TRANS (NON - SYM) DOLLARS and CENTS	EA	1.000	127
	542	6001		REMOVE METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	566.000	128
	542	6002		REMOVE TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	3.000	129
	542	6004		RM MTL BM GD FENCE TRANS (THRIE- BEAM) DOLLARS and CENTS	EA	3.000	130
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	9.000	131

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	544	6003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	4.000	132
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	9.000	133
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	10.000	134
	545	6019		CRASH CUSH ATTEN (INSTL)(S)(N)(TL3) DOLLARS and CENTS	EA	10.000	135
	610	6009		REMOVE RD IL ASM (TRANS-BASE) DOLLARS and CENTS	EA	4.000	136
	610	6206		IN RD IL (TY SA) 40S-8 (250W EQ) LED DOLLARS and CENTS	EA	3.000	137
	610	6214		IN RD IL (TY SA) 40T-8 (250W EQ) LED DOLLARS and CENTS	EA	5.000	138
	618	6023		CONDT (PVC) (SCH 40) (2") DOLLARS and CENTS	LF	2,305.000	139
	618	6047		CONDT (PVC) (SCH 80) (2") (BORE) DOLLARS and CENTS	LF	425.000	140
	620	6007		ELEC CONDR (NO.8) BARE DOLLARS and CENTS	LF	2,790.000	141
	620	6008		ELEC CONDR (NO.8) INSULATED DOLLARS and CENTS	LF	5,580.000	142
	624	6002		GROUND BOX TY A (122311)W/APRON DOLLARS and CENTS	EA	6.000	143

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	628	6009		ELC SRV TY A 120/240 060(NS)SS(E)SP(O) DOLLARS and CENTS	EA	1.000	144
	636	6002		ALUMINUM SIGNS (TY G) DOLLARS and CENTS	SF	124.500	145
	636	6003		ALUMINUM SIGNS (TY O) DOLLARS and CENTS	SF	1,032.250	146
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	8.000	147
	644	6002		IN SM RD SN SUP&AM TY10BWG(1)SA(P- BM) DOLLARS and CENTS	EA	2.000	148
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	20.000	149
	644	6030		IN SM RD SN SUP&AM TYS80(1)SA(T) DOLLARS and CENTS	EA	1.000	150
	644	6064		IN BRIDGE MNT CLEARANCE SGN ASSM(TY N) DOLLARS and CENTS	EA	2.000	151
	644	6068		RELOCATE SM RD SN SUP&AM TY 10BWG DOLLARS and CENTS	EA	1.000	152
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	20.000	153
	647	6001		INSTALL LRSS (STRUCT STEEL) DOLLARS and CENTS	LB	557.000	154
	647	6002		RELOCATE LRSA DOLLARS and CENTS	EA	4.000	155

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	647	6003		REMOVE LRSA DOLLARS and CENTS	EA	5.000	156
	650	6045		INS OH SN SUP(40 FT CANT) DOLLARS and CENTS	EA	5.000	157
	658	6001		INSTL DEL ASSM (D-SW)SZ 1(FLX)GND DOLLARS and CENTS	EA	15.000	158
	658	6013		INSTL DEL ASSM (D-SW)SZ (BRF)CTB DOLLARS and CENTS	EA	3.000	159
	658	6036		INSTL DEL ASSM (D-DW)SZ 1(FLX)GND DOLLARS and CENTS	EA	21.000	160
	658	6060		REMOVE DELIN & OBJECT MARKER ASSMS DOLLARS and CENTS	EA	32.000	161
	658	6061		INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2 DOLLARS and CENTS	EA	27.000	162
	658	6064		INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2 DOLLARS and CENTS	EA	3.000	163
	662	6052		WK ZN PAV MRK REMOV (REFL) TY II-C-R DOLLARS and CENTS	EA	147.000	164
	662	6060		WK ZN PAV MRK REMOV (W)4"(BRK) DOLLARS and CENTS	LF	2,330.000	165
	662	6063		WK ZN PAV MRK REMOV (W)4"(SLD) DOLLARS and CENTS	LF	9,256.000	166
	662	6071		WK ZN PAV MRK REMOV (W)8"(SLD) DOLLARS and CENTS	LF	4,551.000	167

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	662	6073		WK ZN PAV MRK REMOV (W)12"(SLD) DOLLARS and CENTS	LF	511.000	168
	662	6075		WK ZN PAV MRK REMOV (W)24"(SLD) DOLLARS and CENTS	LF	28.000	169
	662	6095		WK ZN PAV MRK REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	20,521.000	170
	662	6109		WK ZN PAV MRK SHT TERM (TAB)TY W DOLLARS and CENTS	EA	892.000	171
	662	6111		WK ZN PAV MRK SHT TERM (TAB)TY Y-2 DOLLARS and CENTS	EA	35.000	172
	666	6005		REFL PAV MRK TY I (W)4"(DOT)(090MIL) DOLLARS and CENTS	LF	80.000	173
	666	6029		REFL PAV MRK TY I (W)8"(DOT)(090MIL) DOLLARS and CENTS	LF	263.000	174
	666	6035		REFL PAV MRK TY I (W)8"(SLD)(090MIL) DOLLARS and CENTS	LF	4,140.000	175
	666	6038		REFL PAV MRK TY I (W)12"(LNDP)(090MIL) DOLLARS and CENTS	LF	321.000	176
	666	6041		REFL PAV MRK TY I (W)12"(SLD)(090MIL) DOLLARS and CENTS	LF	1,060.000	177
	666	6047		REFL PAV MRK TY I (W)24"(SLD)(090MIL) DOLLARS and CENTS	LF	180.000	178
	666	6053		REFL PAV MRK TY I (W)(ARROW)(090MIL) DOLLARS and CENTS	EA	3.000	179

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	ITEM NO	DESC CODE	S.P. NO.				
	666	6071		REFL PAV MRK TY I(W)(LNDR ARW)(090MIL) DOLLARS and CENTS	EA	2.000	180
	666	6077		REFL PAV MRK TY I (W)(WORD)(090MIL) DOLLARS and CENTS	EA	5.000	181
	666	6140		REFL PAV MRK TY I (Y)12"(SLD)(090MIL) DOLLARS and CENTS	LF	387.000	182
	666	6167		REFL PAV MRK TY II (W) 4" (BRK) DOLLARS and CENTS	LF	461.000	183
	666	6174		REFL PAV MRK TY II (W) 6" (SLD) DOLLARS and CENTS	LF	17.000	184
	666	6207		REFL PAV MRK TY II (Y) 4" (SLD) DOLLARS and CENTS	LF	692.000	185
	666	6299		RE PM W/RET REQ TY I (W)4"(BRK)(090MIL) DOLLARS and CENTS	LF	2,169.000	186
	666	6308		RE PM W/RET REQ TY I (W)6"(SLD)(090MIL) DOLLARS and CENTS	LF	7,534.000	187
	666	6314		RE PM W/RET REQ TY I (Y)4"(SLD)(090MIL) DOLLARS and CENTS	LF	4,562.000	188
	666	6320		RE PM W/RET REQ TY I (Y)6"(SLD)(090MIL) DOLLARS and CENTS	LF	1,110.000	189
	672	6006		REFL PAV MRKR TY I-A DOLLARS and CENTS	EA	32.000	190
	672	6008		REFL PAV MRKR TY I-R DOLLARS and CENTS	EA	28.000	191

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	672	6010		REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	433.000	192
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	3,375.000	193
	677	6002		ELIM EXT PAV MRK & MRKS (6") DOLLARS and CENTS	LF	3,527.000	194
	677	6003		ELIM EXT PAV MRK & MRKS (8") DOLLARS and CENTS	LF	1,180.000	195
	678	6001		PAV SURF PREP FOR MRK (4") DOLLARS and CENTS	LF	123.000	196
	678	6033		PAV SURF PREP FOR MRK (RPM) DOLLARS and CENTS	EA	7.000	197
	730	6003		SPOT MOWING DOLLARS and CENTS	AC	18.000	198
	734	6002		LITTER REMOVAL DOLLARS and CENTS	CYC	4.000	199
	738	6005		CLEANING / SWEEPING (FRONTAGE ROAD) DOLLARS and CENTS	CYC	2.000	200
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	1.000	201
	6049	6001		LONG CHANNEL MOUNT CURB SYS (INSTALL) DOLLARS and CENTS	LF	483.000	202
	6053	6002		REMOVE OVERHEAD SIGN PANELS DOLLARS and CENTS	EA	1.000	203

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6079	6002	001	AUTO PORT SMRT TRF MONITOR SYS (PLAN 1) DOLLARS and CENTS	DAY	120.000	204
	6079	6003	001	AUTO PORT SMRT TRF MONITOR SYS (PLAN 2) DOLLARS and CENTS	DAY	30.000	205
	7056	6002		PIPE (6") DI CLASS 350 (ALL DEPTHS) DOLLARS and CENTS	LF	4.000	206
	7056	6009		PIPE ENCASEMENT (18")STEEL(SPLIT) DOLLARS and CENTS	LF	20.000	207
	7056	6020		VALVE (GATE)(6") DOLLARS and CENTS	EA	1.000	208
	7056	6033		FIRE HYDRANTS DOLLARS and CENTS	EA	1.000	209
	7056	6044		VALVE (GATE)(12") DOLLARS and CENTS	EA	1.000	210
	7056	6059		WET CONNECTION 12 DIA X 12 DIA DOLLARS and CENTS	EA	2.000	211
	7056	6068		CONC ENCASEMENT FOR 12" DIA PIPE DOLLARS and CENTS	LF	22.000	212
	7056	6069		PIPE 12" DI CLS 250 RSTRND JNT ALLDEPTH DOLLARS and CENTS	LF	101.000	213
	7056	6070		PIPE 18" DI CLS 250 RSTRND JNT ALLDEPTH DOLLARS and CENTS	LF	217.000	214
	7056	6071		WET CONNECTION 18 DIA X 18 DIA DOLLARS and CENTS	EA	4.000	215

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	7060	6005		STD PRECAST MANH W/ PRECAST BS 48" DIA DOLLARS and CENTS	EA	3.000	216
	7060	6007		STND PRECAST MANH W/CIP BS 48" DIA DOLLARS and CENTS	EA	1.000	217
	7060	6022		CNCT TO EXT SRV 6" DIA X 6" DIA DOLLARS and CENTS	EA	1.000	218
	7060	6023		PIPE 6" DIA PVC SDR26 TYPE DOLLARS and CENTS	LF	76.000	219
	7060	6024		PIPE 8" DIA PVC SDR26 TYPE DOLLARS and CENTS	LF	135.000	220
	7060	6031		CONC ENCASEMENT FOR 8" DIA PIPE DOLLARS and CENTS	LF	47.000	221

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Basis of Estimate		
Item	Description	**Rate
**204	Sprinkling (Dust) (Item 132) (Item 247)	30 GAL/CY 30 GAL/CY 30 GAL/CY
**210	Roll (Flat Wheel) (Item 247) (Item 316)	1 HR/200 TON 1 HR/6000 SY
**210	Roll (Tamping and Heavy Tamping)	1 HR/200 CY
**210	Roll (Lt Pneumatic Tire) (Item 132) (Item 247) (Item 316)(Seal Coat) (Item 316)(Two Course)	1 HR/500 CY 1 HR/200 TON 1 HR/6000 SY 1 HR/3000 SY
247	Flexible Base (CMP IN PLC)	132 LB/CF
310	Prime Coat	0.20 GAL/SY
314	Emulsified Asphalt (SS-1 or MS-2)	0.30 GAL/SY
316	Surface Treatments Underseal Asphalt Aggregate Seal Coat Grade 4 Asphalt Aggregate Grade 5 Asphalt Aggregate Two Course Surface Treatment Asphalt 1st Application Asphalt 2nd Application Aggregate 1st Application Grade 3 Aggregate 2nd Application Grade 4	0.25 GAL/SY 1 CY/150 SY 0.38 GAL/SY 1 CY/120 SY 0.32 GAL/SY 1 CY/150 SY 0.28 GAL/SY 0.24 GAL/SY 1 CY/110 SY 1 CY/130 SY
340/341/344	Dense-Graded Hot-Mix Asphalt	110 LB/SY/IN
342	Permeable Friction Course (PFC) Aggregate Asphalt	84.6 LB/SY/IN 5.4 LB/SY/IN
346	Stone-Matrix Asphalt	113 LB/SY/IN
347	Thin Surface Mixtures (TOM) Asphalt Aggregate	7.9 LB/SY/IN 102.1 LB/SY/IN
350	Microsurface	25 LB/SY

** For Informational Purposes Only

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The following standard detail sheet or sheets have been modified:

Modified Standards

T502TR (MOD)
CONC DRIVEWAYS, SIDEWALKS,& RIPRAP MEDIAN(AUS DIST) (MOD)
SETB-CD (MOD)
ECD (MOD)
IGTS (MOD)
AJ (MOD)

GENERAL

Perform work during good weather. If work is damaged by a weather event, the Contractor is responsible for all costs associated with replacing damaged work.

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

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

The roadbed will be free of organic material prior to placing any section of the pavement structure.

Equip all construction equipment used in roadway work with highly visible omnidirectional flashing warning lights.

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

Construct all manholes/valves to final pavement elevations prior to the placement of final surface. If the manholes/valves are going to be exposed to traffic, place temporary asphalt around the manhole/valve to provide a 50:1 taper. The asphalt taper is subsidiary to the ACP work.

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

Use a self-contained vacuum broom to sweep the roadway and keep it free of sediment as directed. This work considered subsidiary to Item 738-Cleaning and Sweeping Highways. The contractor will be responsible for any sweeping above and beyond the normal maintenance required to keep fugitive sediment off the roadway as directed by the Engineer.

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Protect all areas of the right of way, which are not included in the actual limits of the proposed construction areas, from disturbance. Restore any area disturbed because of the Contractor's operations to a condition as good as, or better than, before the beginning of work at no cost to the state.

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

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

Measure all minimum vertical clearances for all structures (including, but not limited to, signal mast arms, span wires, and overhead sign bridge structures) within the limits of the project for all roadway alignments in all directions of travel. Coordinate with the Engineer to take these measurements and obtain prior to opening roadways to traffic unless otherwise approved. The Engineer will report all minimum vertical clearance information to the District Permit Office.

During evacuation periods for Hurricane events the Contractor will cooperate with Department for the restricting of Lane Closures and arranging for Traffic Control to facilitate Coastal Evacuation Efforts.

ITEM 5 – CONTROL OF THE WORK

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

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

Electronic Shop Drawing Submittals:

Submit Electronic Shop Drawing Submittals according to the current **Guide to Electronic Shop Drawing Submittal** (GESDS). For instructions on submitting shop drawings electronically go to TxDOT website (Business with TxDOT > Bridge Information > Shop Drawings. File is titled: **Guide to Electronic Shop Drawing Submittal**.)

For information on the electronic shop plan process, please visit the Bridge Division/Fabrication Branch web pages at: <http://www.txdot.gov/business/resources/specifications/shop-drawings.html>

The Guide to Electronic Shop Drawing Submittal at:

ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf

and the Submittal Requirements table at:

ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/electronic_submission.pdf have

been updated to include additional guidance on segmental bridge submittals.

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And

Copies of the standard shop drawings are on file with Traffic Operations Division, Bridge Division, and the Materials Section of Construction Division. Additional shop drawings for roadway illumination assemblies built in conformance with these drawings are not required. Pre-approved shop drawing manufacturers and assembly model numbers can be found at TxDOT website (Business with TxDOT > Materials Information > Material Producer List. Category is Roadway Illumination and Electrical Supplies

1. In the E-mail “To:” box place the E-mail address to the following:

If the Bridge(s) on this Project is a (are) TxDOT Bridge(s), which utilizes TxDOT Standards, then submit the appropriate Shop Drawings (and Working Drawings, if required) directly to the **Bridge Division Fabrication Section**<mailto:Jason.Hudson@txdot.gov>. See the two paragraphs above.

Alternatively/In addition, if the Shop Drawings (and Working Drawings, if/when required) are not required to be submitted to the **Bridge Division Fabrication Section**:

Submit all Shop Drawings (and Working Drawings, if/when required), which do not require direct submittal to the **Bridge Division Fabrication Section**, electronically, to the following address:

Georgetown Area	Jason Hudson	Jason.Hudson@txdot.gov	AUS_GE-ShopReview@txdot.gov

Consultant E-Mail Contact:

Janice E Kruse, PE
jkruse@aiainc.com
AIA Engineers, LTD

2. In the e-mail “CC:” or “Copy To:” box place the following E-mail addresses:

In every e-mail submittal, the “CC:” or “Copy To:” line of the header will include the following e-mail addresses:

a. Contractor’s Contact:

AND

b. Area Office Contact:

Georgetown Area	Jason Hudson	Jason.Hudson@txdot.gov	AUS_GE-ShopReview@txdot.gov
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ITEM 6 - CONTROL OF MATERIALS

Give a minimum of 1 business day notice for materials, which require inspection at the Plant.

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ITEM 7 – LEGAL RELATIONS AND RESPONSIBILITIES

Refer to the Environmental Permits, Issues and Commitments (EPIC) plan sheets for additional requirements and permits.

When any abandoned well is encountered, cease construction operations in this area and notify the Engineer who will coordinate the proper plugging procedures. A water well driller licensed in the State of Texas must be used to plug a well.

Erosion control and stabilization measures must be initiated immediately in portions of the site where construction activities have temporarily ceased and will not resume for a period exceeding 14 calendar days. Track all exposed soil, stockpiles, and slopes. Tracking consists of operating a tracked vehicle or equipment up and down the slope, leaving track marks perpendicular to the direction of the slope. Re-track slopes and stockpiles after each rain event or every 14 days, whichever occurs first. This work is subsidiary.

Perform maintenance of vehicles or equipment at designated maintenance sites. Keep a spill kit on-site during fueling and maintenance. This work is subsidiary.

Maintain positive drainage for permanent and temporary work for the duration of the project. Be responsible for any items associated with the temporary or interim drainage and all related maintenance. This work is subsidiary.

Suspend all activities near any significant recharge features, such as sinkholes, caves, or any other subterranean openings that are discovered during construction or core sampling. Do not proceed until the designated Geologist or TCEQ representative is present to evaluate and approve remedial action.

Locate aboveground storage tanks kept on-site for construction purposes in a contained area as to not allow any exposure to soils. The containment will be sized to capture 150% of the total capacity of the storage tanks.

PSL in USACE Jurisdictional Area.

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

Proceed with activities in PSLs that do not affect a USACE jurisdictional area if self-determination has been made that the PSL is non-jurisdictional or proper clearances have been obtained in USACE jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. Document any determinations that PSL activities do not

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affect a USACE jurisdictional area. Maintain copies of PSL determinations for review by the Department or any regulatory agency. The Contractor must document and coordinate with the USACE, if required, before any excavation material hauled from or embankment material hauled into a USACE jurisdictional area by either (1) or (2) below.

1. **Restricted Use of Materials for the Previously Evaluated Permit Areas.** When an area within the project limits has been evaluated by the USACE as part of the permit process for this project:
 - a. suitable excavation of required material in the areas shown on the plans and cross sections as specified in Standard Specification Item 110, Excavation is used for permanent or temporary fill within a USACE jurisdictional area;
 - b. suitable embankment from within the USACE jurisdictional area is used as fill within a USACE evaluated area;
 - c. Unsuitable excavation or excess excavation that is disposed of at an approved location within a USACE evaluated area.
2. **Contractor Materials from Areas Other than Previously Evaluated Areas.** Provide the Department with a copy of all USACE coordination and approvals before initiating any activities in a jurisdictional area within the project limits that has not been evaluated by the USACE or for any off right of way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites:
 - a. Standard Specification Item 132, Embankment is used for temporary or permanent fill within a USACE jurisdictional area;
 - b. Unsuitable excavation or excess excavation that is disposed of outside a USACE evaluated area.

Work over or near Bodies of Water (Lakes, Rivers, Ponds, Creeks, etc.).

Keep on site a universal spill kit adequate for the body of water and the work being performed. No debris is allowed to fall into a body of water. Debris that falls into the water must be removed at the end of each work day. Debris that falls into the floodway must be removed at the end of each work week or prior to a rain event. This work is subsidiary.

DSHS Asbestos and Demolition Notification.

Complete and provide the Texas Department of State Health Services (DSHS) notification form to the Engineer at least 30 calendar days prior to bridge or bridge class culvert removal or renovation. Notify the Engineer via email of any changes to the work start date.

Migratory Birds and Bats.

Migratory birds and bats may be nesting within the project limits and concentrated on roadway structures such as bridges and culverts. Remove all old and unoccupied migratory bird nests from any structures, trees, etc. between September 1st and January 31st. Prevent migratory birds from re-nesting or perform construction activities between February 1st and August 31st.

All methods used for the removal of old bird or bat nesting areas and the prevention of re-nesting must be approved by the Engineer well in advance of the planned use.

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In the event that any active nests are encountered on-site during construction, all construction activity within the immediate vicinity of the nest must cease immediately. Contact the Engineer to determine how to proceed.

No extension of time or compensation payment will be granted for a delay or suspension of work caused by migratory birds or bats. This work is subsidiary.

Law Enforcement Personnel.

Submit charge summary and invoices using the Department forms.

Patrol vehicles must be clearly marked to correspond with the officer's agency and equipped with appropriate lights to identify them as law enforcement. For patrol vehicles not owned by a law enforcement agency, markings will be retroreflective and legible from 100 ft. from both sides and the rear of the vehicle. Lights will be high intensity and visible from all angles.

No payment will be made for law enforcement personnel needed for moving equipment or payment for drive time to/from the event site.

If the Contractor has a field office, provide an office location for a supervisory officer when event requires a supervising officer. This work is subsidiary.

A maximum combined rate of \$70 per hour for the law enforcement personnel and the patrol vehicle will be allowed. Any scheduling fee is subsidiary per Standard Specification 502.4.2.

Cancel law enforcement personnel when the event is canceled. Cancellation, minimums or "show up" fees will not be paid when cancellation is made 12 hours prior to beginning of the event. Failure to cancel within 12 hours will not be cause for payment for cancellation, minimums, or "show up" time. Payment of actual "show up" time to the event site due to cancellation will be on a case by case basis at a maximum of 2 hours per officer.

Alterations to the cancellation and maximum rate must be approved by the Engineer or pre-determined by official policy of the officers governing authority.

ITEM 8 – PROSECUTION AND PROGRESS

Electronic versions of schedules will be saved in Primavera P6 format.

Working days will be charged in accordance with 8.3.1.1, "5 day Workweek."

A CPM schedule in Primavera format and a PSSR is required. Use software fully compatible with Primavera P6.

Substantially complete Milestone 1 in 8 working days. The road-user disincentive for late completion is \$1,700.00 per day. The time charges for Milestone 1 will begin when Chisholm Trail intersection is closed to traffic and end when the intersection is open to traffic.

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Substantially complete Milestone 2 in 7 working days. The road-user disincentive for late completion is \$1,700.00 per day. The time charges for Milestone 2 will begin when Hoppe Trail intersection is closed to traffic and end when the intersection is open to traffic.

Milestones 1 and 2 cannot be worked on concurrently.

Substantially complete Milestone 3 in 11 working days. The disincentive/incentive for late completion is \$6,100.00 per day with a maximum of 2 working days for computing the incentive credit. The time charges for Milestone 3 will begin when the existing exit ramp is closed and end when the proposed entrance ramp is opened to traffic.

Substantially complete Milestone 4 in 11 working days. The disincentive/incentive for late completion is \$6,100.00 per day with a maximum of 2 working days for computing the incentive credit. The time charges for Milestone 4 will begin when the existing entrance ramp is closed and end when the proposed exit ramp is opened to traffic.

In accordance with Item 8, disincentives for failure to substantially complete the milestone(s) will be applied.

The monthly estimate will be deducted a lane closure assessment fee according to the following schedule for each lane closed or obstructed that extends beyond the allowable hours.

The schedule of assessment fees will be as follows:

MAIN LANE ASSESSMENT FEES *

Lane Rental Period	Assessment Fees (per lane)
0-15 minutes	\$5,000
15-30 minutes	\$10,000
30-45 minutes	\$16,400
45-60 minutes	\$24,600
Every additional 0-15 minute interval after 1 hour	\$8,200

For example, if the Contractor has one lane of traffic closed for 45 minutes, assessment fees will be accrued as follows:

$$1 \text{ lane closed} \times (\$5,000 + \$10,000 + \$16,400) = \$31,400$$

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FRONTAGE RD LANE ASSESSMENT FEES *

Lane Rental Period	Assessment Fees (per lane)
0-15 minutes	\$2,800
15-30 minutes	\$6,500
30-45 minutes	\$11,200
45-60 minutes	\$16,800
Every additional 0-15 minute interval after 1 hour	\$5,600

* Assessment fees are cumulative.

The Contractor shall provide a two-week look ahead weekly. The look ahead shall include upcoming work items, possible land and full closures,

The Contractor shall maintain a 8.5x11 project fact sheet to be reviewed and distributed by TXDOT. The template will be provided by TXDOT.

ITEM 100 - PREPARING RIGHT OF WAY

Prep ROW must not begin until trees designated for preservation have been protected, items listed in the EPIC have been addressed, and SW3P controls installed. Burning brush is not allowed.

Unless limits are provided in plans, perform pruning or removal for areas within 30' of edge of pavement under construction. Prune or remove vegetation along sidewalks, along paths, along guard fence, along rails, around signs, markers, and structures to provide visibility to traveling public, line of sight for travelers, and 5' of clearance. Prune to provide a minimum of 14' vertical clearance under all trees. Use work methods described in Item 752. Flailing equipment is not allowed on oak trees. This work is subsidiary.

Use hand methods or other means of removal if doing work by mechanical methods is impractical. This work is subsidiary.

Backfill material will be Type B Embankment using ordinary compaction.

ITEM 110 – EXCAVATION

The Engineer will define unsuitable material.

ITEM 132 – ALL EMBANKMENT

At no time will the retaining wall backfill material exceed the adjacent embankment operation by more than one lift. At no time will the embankment adjacent to the retaining wall backfill exceed the wall backfill by any elevation.

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The Engineer will define unsuitable material. Material which the Contractor might deem to be unsuitable due to moisture content will not be considered unsuitable material.

Prior to begin embankment of existing area, correct or replace unstable material to a depth of 6” below existing grade. Embankment areas will be inspected prior to beginning work.

Rock or broken concrete produced by the project is allowed in earth embankments. The size of the rock or broken concrete will not exceed the layer thickness requirements in Section 132.3.4., “Compaction Methods.” The material will not be placed vertically within 5’ of the finished subgrade elevation.

Embankment placed vertically within 5’ of the finished subgrade elevation or within the edges of the subgrade and treated with lime, cement, or other calcium based additives must have a sulfate content less than 3000 ppm. Allow 5 business days for testing. Treatment of sulfate material 3000 ppm to 7000 ppm requires 7 days of mellowing and continuous water curing, in accordance TxDOT guidelines for Treatment of Sulfate-Rich Soils and Bases in Pavement Structures (9/2005). Material over 7000 ppm is not allowed.

ITEM 132 – EMBANKMENT TY C

Do not furnish shale clays. The Engineer must approve the embankment material before use on the project. Existing material from within the project limits or approved by the engineer may be used vertically beyond 5’ of the finished subgrade elevation or beyond the edge of the subgrade. Furnish embankment with sulfate content less than 3000 ppm if treated with calcium-based chemicals or within 5’ of the finished subgrade elevation.

Embankment placed over the area of MSE backfill must meet the same backfill requirements for the type specified under Item 423.

TY C Requirements

Percent Passing	Percent Retained					LL Max	PI Max	PI Min
	1 3/4"	7/8"	3/8"	#4	#40			
100	0-10	10-20	-	45-75	50-85	45	20	6

ITEM 160 - TOPSOIL

Off-site topsoil will have a minimum PI of 25.

No Sandy Loam allowed.

Obtain approval of the actual depth of the topsoil sources for both on-site and off-site sources.

Construct topsoil stockpiles of no more than five (5) feet in height.

It is permissible to use topsoil dikes for erosion control berms within the right of way, as directed.

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Seed or track slopes within 14 days of placement.

Salvage topsoil from sites of excavation and embankment. Maximum salvage depth is 6 inches.

Windrowing of topsoil obtained from the Right of Way (ROW) is not allowed.

ITEM 168 – VEGETATIVE WATERING

Water all areas of project to be seeded or sodded.

Maintain the seedbed in a condition favorable for the growth of grass. Watering can be postponed immediately after a rainfall on the site of ½ inch or greater, but will be resumed before the soil dries out. Continue watering until final acceptance.

Vegetative watering rates and quantities are based on ¼ inch of watering per week over a 3-month watering cycle. The actual rates used and paid for will be as directed and will be based on prevailing weather conditions to maintain the seedbed.

Obtain water at a source that is metered (furnish a current certification of the meter being used) or furnish the manufacturer's specifications showing the tank capacity for each truck used. Notify the Engineer, each day that watering takes place, before watering, so that meter readings or truck counts can be verified.

ITEM 204 – SPRINKLING

Apply water for dust control as directed. When dust control is not being maintained, cease operations until dust control is maintained. Consider subsidiary to the pertinent Items.

ITEM 216 - PROOF ROLLING

Correct and perform "Proof Rolling" retest at the Contractor's expense, to the satisfaction of the Engineer, when initial "Proof Rolling" yields a failing result. This work is subsidiary to various items.

ITEM 247 - FLEXIBLE BASE

The lift thickness will be 4" to 6" unless shown in the plans. When compacted in multiple lifts, the density of the bottom and middle lifts will be 95% and 98% of the maximum dry density, respectively.

Correction of subgrade soft spots is subsidiary.

Complete all subgrade, ditches, slopes, and place all drainage structures to conform to required lines, grades, and cross-sections, as shown and directed, prior to the placement of Flex Base.

Do not use a vibratory roller to compact the material directly over a box culvert.

ITEM 300 – ASPHALTS, OILS, AND EMULSIONS

Asphalt season is May 1 thru September 15. Emulsified Asphalt season is April 1 thru October 15.

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Apply tack coat at 0.06 GAL/SY (residual). Apply non-tracking tack coat using manufacturer recommend rates. In addition to tack allowed per the specification, an approved list of tack coats is maintained by the District Lab.

If an under seal is not provided, furnish a tack coat.

ITEM 305 - SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALT PAVEMENT

Contractor retains ownership of the material.

ITEM 310 – PRIME COAT

Apply blotter material to all driveways and intersections. This work is subsidiary.

When Multi Option is allowed, provide MC 30, EC 30 or AE-P. MC 30 is not allowed in Travis County.

Rolling to ensure penetration is required.

ITEM 316 – SEAL COAT

Ensure that all underseals are covered by HMA CP before exposing to traffic for roadways listed in Table 1 of Item 502 or ADT greater than 5,000.

Aggregates (Multi Option) for seal coats not exposed to traffic and underseals shall be Type E, PA, PB, A or B. The Grade shall range between 4 and 5.

Use ionic compatible asphalt and pre-coat aggregate.

Use paper or other approved material at the beginning and end of each shot so that the transverse joint is straight and prevents overlap of asphalt shots.

Use a medium pneumatic roller in accordance with Item 210. Roll before opening to traffic.

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

Remove and dispose off the ROW the audible/profile markings, reflectorized markings, and raised markers. Blade pavement edges to remove vegetation. Any areas with excessive asphalt or aggregate will be removed. Continue sweeping excess aggregate off the roadway, riprap, and shoulder up to two weeks after completing the work. This work is subsidiary.

ITEM 340 THRU 348 - HOT-MIX ASPHALT PAVEMENT

The Contractor must sample asphalt binder, in accordance to the applicable item. Label the sample can with the corresponding CSJ, lot, and subplot numbers. Samples must be stored in a common area where they are readily available to the TxDOT representative at the plant. The Contractor will be responsible for supplying storage for all samples. Retain all asphalt samples until hot mix production is complete or directed otherwise. Contractor is responsible for disposal of all asphalt binder samples, in accordance to Local, State, and Federal regulations.

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Core holes may be filled with a Asphaltic patching material meeting the requirements of DMS-9203 or with SCM meeting requirements of DMS-9202.

Mill a transverse butt joint to transition from the new ACP to the existing surface. Make the transition a minimum of 50' H: 1" V. Saw cut the existing pavement at the transverse butt joint. Use a device to create a maximum 3H: 1V notched wedge joint on all longitudinal joints of 2" or greater. This work is subsidiary.

Prior to milling, core the existing pavement to verify thickness. This work is subsidiary.

Ensure placement sequence to avoid excess distance of longitudinal joint lap back not to exceed one day's production rates.

Submit any proposed adjustments or changes to a JMF before production of the new JMF.

Tack every layer. Do not dilute tack coat. Apply it evenly through a distributor spray bar.

Provide a minimum transition of 10' for intersections, 10' for commercial driveways, and 6' for residential driveways unless otherwise shown on the plans.

Irregularities will require the replacement of a full lane width using an asphalt paver. Replace the entire subplot if the irregularities are greater than 40% of the subplot area.

Lime or an approved anti-stripping agent must be used when crushed gravel is utilized to meet a SAC "A" requirement.

When using RAP or RAS, include the management methods of processing, stockpiling, and testing the material in the QCP submitted for the project. If RAP and RAS are used in the same mix, the QCP must document that both of these materials have dedicated feeder bins for each recycled material. Blending of RAP and RAS in one feeder bin or in a stockpile is not permitted.

Asphalt content and binder properties of RAP and RAS stockpiles must be documented when recycled asphalt content greater than 20% is utilized.

No RAS is allowed in surface courses.

Department approved warm-mix additives is required for all surface mix application when RAP is used. Dosage rates will be approved during JMF approval.

The Hamburg Wheel Test will have a minimum rut depth of 3mm.

ITEM 341 - DENSE-GRADED HOT-MIX ASPHALT

Target laboratory molded density is 97% for all mixtures for TGC mixture designs.

When using substitute binders, mold specimens for mix design and production at the temperature required for the substitute binder used to produce the HMA.

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The Hamburg minimum # of passes for PG 64 or lower is reduced to 7,000.

The Engineer may accept Hamburg Wheel test results for production and placement if no more than 1 of the 5 most recent tests is below the specified number of passes and the failing test is no more than 2,000 passes below the specified number of passes.

ITEM 346 - STONE-MATRIX ASPHALT (SMA)

For SAC A, blending SAC B aggregate with an RSSM greater than the SAC A rating or 10, whichever is greater, is prohibited for travel lanes.

The use of RAP is prohibited.

Target laboratory molded density is 96.5% for all mixtures.

The minimum rut depth at 20,000 passes of the Hamburg Wheel test is 3 mm.

In-place air voids are waived for SMA-F placed at a 1" compacted lift. Use of a pneumatic roller is prohibited for SMA-F. Water flow rate for SMA-F will exceed 120 seconds when tested using Tex-246-F. Perform water flow rate testing once per lot.

ITEMS 347 - THIN OVERLAY MIXTURES (TOM)

For SAC A, blending SAC B aggregate with an RSSM greater than the SAC A rating or 10, whichever is greater, is prohibited.

Furnish non-tracking tack coat or tack applied using a Spray Paver.

When using a Thermal Imaging System follow the Weather Condition requirements for When Not Using a Thermal Imaging System.

Produce mixture with a Department approved WMA additive or process to facilitate compaction when the haul distance is greater than 40 miles or when the air temperature is 70° F and falling. WMA processes, such as water or foaming processes, are not allowed under these circumstances. Water flow rate can exceed 120 seconds when tested using Tex-246-F. Perform water flow rate testing once per lot.

ITEM 354 - PLANING AND TEXTURING PAVEMENT

Contractor retains ownership of materials.

Taper permanent traverse faces 50 ft. per 1 in. Taper permanent longitudinal faces 6 ft. per 1 in. Taper temporary traverse faces 25 ft. per 1 in. HMA may be used as temporary tapers. Provide minimum 1 in. butt joints at bridge ends and paving ends. This work is subsidiary.

Remove the loose material before opening to traffic.

Micromilling

In addition to standard planing machine requirements, use planing machines that are:

- designed for micromilling bituminous pavement full lane width;

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- capable of removing pavement to an accuracy of 1/16 in. with a maximum tool spacing of 5/8 in.

Prior to commencement of the work, construct a test section that is 1000 ft. in length. Maintain a constant cross slope between pavement edges in each lane. Provide positive drainage to prevent water accumulation on the micromilled pavement.

ITEM 400 - EXCAVATION AND BACKFILL FOR STRUCTURES

Unless shown on the plans, the following backfill will apply to cutting and restoring pavement. Backfill with cement-stabilized backfill capped with hot-mix to a depth equal to the adjacent pavement. The minimum hot-mix depth will be 4 in. Hot-mix will be Type B except at locations where the backfill surface is final; all final surfaces will be 1-1/2 in. Type D.

Saw-cut the pavement at the edge of the excavation. This work is subsidiary.

Backfill the bridge ends in accordance with the limits shown on TxDOT "CSAB" Standard. Use material in accordance with "CSAB" or Item 423, Type BS. The "CSAB" optional bond breaker materials are allowed. This work is subsidiary.

ITEM 416 - DRILLED SHAFT FOUNDATIONS

Stake all Foundations, for approval, before beginning drilling operations.

Remove spoils from a flood plain at the end of each work day.

ITEM - 420, 425, 441, & 462

Notify the Austin District Bridge Engineer prior to opening each phase of bridge or bridge class culvert construction to traffic. Notification is required for all new and modified structures.

ITEM 420 – CONCRETE SUBSTRUCTURES

Do not use PMDF in areas where a "Free Joint" is indicated in the plans.

Check the sign plans for locations of clearance signs and brackets on structures, which will require inserts in the pre-stressed beams.

Where Retaining Walls are integral parts of the abutment header, do not place the abutment cap prior to backfilling the wall and the abutment area up to the elevation of the bottom of the abutment cap.

Mass placements are defined as placements with a least dimension greater than or equal to 5 ft., or designated elsewhere on the plans.

The "H" values shown on Bridge Layouts are estimated column heights. Calculate the actual column heights based on field conditions.

Perform work during good weather unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by the weather, the Contractor is responsible for all costs associated with repairs/replacement.

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Upon completion of the structure, stencil the National Bridge Inventory (NBI) number (structure number) using black paint and 4" tall numbers at location designated. This work is subsidiary.

Bonding agents are required at construction joints. Do not use membrane curing for structural concrete as defined in Item 421, Table 8.

Remove all loose Formwork and other Materials from the floodplain or drainage areas daily.

ITEM 423 - RETAINING WALLS

Epoxy 12 in. long No. 3 or No. 4 bars 6 in. deep at a maximum spacing of 12 in. in each direction to tie adjacent concrete riprap to wall elements.

Immediately backfill the face of the retaining wall after the wall height gets above the final grade in front of the wall.

Verify each row of panel placement for specification tolerances after backfilling is accomplished and prior to placement of the next row of panels. Correct to within tolerance prior to placing subsequent rows of panels. Notify the Engineer when a tolerance check is needed.

At no time will the retaining wall backfill material exceed the adjacent embankment operation by more than 1 embankment lift.

Type BS backfill will use modified gradation limits as shown below.

Type	Sieve Size	Percent Retained
BS MOD	3 in.	0
	No. 4	85-100

Retaining wall coping placement will be such that the outside face of the wall panels are not offset from the inside face of coping by more than 1-1/2 in.

Provide a test panel representative of the texture for the custom form-liner surface finish prior to beginning precast operations. The surface texture will be subject to approval. If directed, construct additional test panels until a satisfactory surface treatment is obtained. This work is subsidiary.

ITEM 425 - PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS

Conduct a pre-placement meeting for the erection of structural members.

ITEM 427 - SURFACE FINISHES FOR CONCRETE

Provide a rub finish to Surface Area I.

ITEM 432 - RIPRAP

Mow strip riprap will be 4 in. and all other riprap will be 5 in. unless otherwise shown on the plans or in the pay items.

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Saw-cut existing riprap then epoxy 12 in. long No. 3 or No. 4 bars 6 in. deep at a maximum spacing of 18 in. in each direction to tie new riprap to existing riprap. This work is subsidiary.

For cement-stabilized riprap, provide Type A Grade 5 flexible base. Compressive strengths for Item 247 are waived.

ITEM 454 - BRIDGE EXPANSION JOINTS

Apply protection System II in accordance with Item 446 to armor joint.

ITEM 465 – JUNCTION BOXES, MANHOLES AND INLETS

Maintain drainage at curb inlets until the final roadway surface is placed.

ITEM 466 - HEADWALLS AND WINGWALLS

Use Class C concrete for headwalls or wingwalls.

Remove all loose Formwork and other Materials from the Floodplain or drainage areas, daily, which could float off in a Storm water Event, as directed.

ITEM 467 - SAFETY END TREATMENT

Field adjust pipe end to maintain the necessary slope. Field cutting of pipe end is allowed. Coat all metal field cuts or exposed reinforcement with asphalt paint.

ITEM 496 - REMOVING STRUCTURES

Submit a demolition plan to the Engineer. Have the plan signed and sealed by a licensed professional engineer when the structure will continue to accommodate traffic after removal has begun and the removal impacts any part of the structure below the deck or riding surface. If applicable, the plan must detail requirements for meeting the U.S. Army Corps of Engineers' Section 404 Permit. The demolition plan must detail handling of roadway and waterway traffic. Waterway traffic must be maintained at all times unless a closure is approved by the Engineer.

No debris is allowed to fall into a body of water. Debris that falls into the water must be removed at the end of each work day. Debris that falls into the floodway must be removed at the end of each work week or prior to a rain event.

ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING

Table 1

<u>Roadway</u>	<u>Limits</u>	<u>Allowable Closure Time</u>
IH 35	All (1 lane closed)	9 P to 5 A
IH 35	All (2 lanes closed, see allowable work below)	9 P to 5 A
IH 35	All (2 lanes closed, all work)	11 P to 5 A
IH 35	All (Full Closure, see allowable work below)	11P to 4 A
RM 1431	Lohmans Ford Rd to IH 35	8 P to 5 A
All	Within 200' of a signalized intersection	8 P to 5 A

2 lanes closed on IH 35 allowed to begin at 9 P for main lane (shoulder work not included) hotmix overlay or base repair operations. Full closures of IH 35 only allowed Sunday Night thru

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Friday morning for bridge beam installation, bridge demolition, or OSB truss removal/installation. For locations not listed in Table 1, nighttime lane closures will be allowed from 9:00P to 5:30A. Daytime or Friday night lane closures will not be allowed for any project. One lane in each direction will remain open at all times. No closures will be allowed on the weekends, working day prior, and working day after the National Holidays defined in the Standard Specifications and Easter weekend. No closures will be allowed on Friday and the weekends for projects within 20 miles of ROT Rally, UT home football games, or other special events that could be impacted by the construction. All lanes will be open by noon of the day before these special events. The previous closure restrictions and Table 1 may be amended by the Engineer or if amended elsewhere in the plans.

Cover, relocate or remove existing signs that conflict with traffic control. Install all permanent signs, delineation, and object markers required for the operation of the roadway before opening to traffic. Use of temporary mounts is allowed or may be required until the permanent mounts are installed or not impacted by construction. Maintain the temporary mounts. This work is subsidiary.

Shadow Vehicle with TMA is required as shown in the TCP sheets and for setup/removal of traffic control devices.

Submit an emailed request for a lane closure (LCN) to the TxDOT representative. The email will be submitted in the format provided. Receive concurrence prior to implementation. Submit a cancellation of lane closures a minimum of 18 hours prior to implementation. Blanket requests for extended periods are not allowed. Max duration of a request is 2 weeks prior to requiring resubmittal. Provide 2 hour notice prior to implementation and immediately upon removal of the closure.

For roadways not listed in Table 1: Submit the request a minimum of 48 hours prior to the closure and by the following deadline immediately prior to the closure: 11A on Tuesday or 11A on Friday.

For roadways listed in Table 1: Submit the request 96 hours prior to implementation.

For all roadways: Submit request for traffic detours and full roadway closures 168 hours prior to implementation. Submit request for nighttime work 96 hours to implementation date. Cancellations of accepted closures (not applicable to full closures or detours) due to weather will not require resubmission in accordance with the above restrictions if the work is completed during the next allowable closure time.

Closures that conflict with adjacent contractor will be prioritized according to critical path work per latest schedule. Conflicting critical path or non-critical work will be approved for first LCN submitted. Denial of a closure due to prioritization or other reasons will not be reason for time suspension, delay, overhead, etc.

Meet with the Engineer prior to lane closures to ensure that sufficient equipment, materials, devices, and workers will be used. Take immediate action to modify traffic control, if at any time backup (queuing) becomes greater than 20 minutes. Have a contingency plan of how

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modification will occur. Consider inclement weather prior to implementing the lane closures. Do not set up traffic control when the pavement is wet.

Place a 28-inch, reflectorized cone meeting requirements of BC (10)-14 on top of foundations that have protruding studs. This work is subsidiary.

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

For Mainlanes use night-work and same-night remove-and-replace operations.

Furnish advisory speed signs in enough numbers as directed. To determine an advisory speed limit to post for various curves and ramps within this project notify the Engineer 2 months prior to manufacture of the sign.

The Full Closure of Chisholm Trail is limited to 8 working days, and the full closure of Hoppe Trail is limited to 8 working days. The phasing of the work shall be done to ensure that both streets are not closed at the same time. As per Item 8 disincentives shall apply if the intersections are not opened on time.

ITEM 504 - FIELD OFFICE AND LABORATORY

All labs and offices will include cleaning at least once a week. The cleaning will include sweeping and mopping of floors, cleaning the toilet and lavatory, and emptying wastebaskets. Space heaters are not considered adequate heating.

Projects with more than 500 CY of structural class concrete and/or 2000 CY of non-structural concrete will include a concrete testing facility. Provide a structure with at least 200 sq. ft. of gross floor area in room 8 ft. high. The structure will include the laboratory equipment and all other related items to perform the contract-controlling test procedures.

Projects with HMAC, furnish a Type D structure for the Engineer's exclusive use. The structure will include high speed internet service with WIFI signal, one desk, two chairs, and one file cabinet. Provide a minimum of three 120-volt circuits with 20-amp breakers and at most two grounded convenience outlets per circuit.

Provide a Type E structure with at least 400 sq. ft. of gross floor area in room(s) 8 ft. high. The structure will include high speed internet service with WIFI signal, minimum of two desks, four chairs, and a storage cabinet. The cabinet will be lockable and a minimum of 3 ft wide by 2 ft deep by 3 ft high. If a field office is required, a concrete testing facility will be required regardless of quantity of concrete.

ITEM 512 – PORTABLE TRAFFIC BARRIER

Any increase in temporary barrier quantities that occur due to Contractor changes in the sequence of work or the traffic control plan will not be paid.

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ITEM 528, 531 and 536

Reinforcement will be in accordance with Item 432.3.1 unless shown on the plans. Fiber reinforcement is not allowed. Class A and B Concrete are allowed to use Coarse Aggregate Grades 1-8. Expansion joints will be placed every 40 ft. Expansion joints must be 1" wide asphalt board and flush with the surface. The bottom of the joint shall be at half the depth of the concrete. Sidewalk cross slope must not exceed 1.5%.

Unless shown on the plans or in the pay items, all concrete will be 5 in. thick and have 2 in. sand, base, or RAP bedding. Furnish base meeting the requirement for any type or grade in accordance with Item 247. Base compressive strengths are waived. RAP must be 100% passing a 1 in. sieve. Bedding must be placed using ordinary compaction.

ITEM 528 - COLORED TEXTURED CONCRETE AND LANDSCAPE PAVERS

Furnish and install the interlocking modular concrete paving units as on the plans.

Ensure placement of concrete pavers occurs after installation of permanent signing.

Ensure delivery of the paving units to the jobsite on pallets. Ensure the paving units are bound so that no damage occurs to the product during any handling, hauling, and unloading.

Use paving units such as "Holland-Stone" as manufactured by Pavestone Co., 1900 Clovis Barker Rd, San Marcos, TX 78666, or approved equal. Ensure paving thickness will be 2 3/8 inches. Submit samples of the colored pavers to the Engineer. Use the color specified by the Engineer.

Prepare base material as detailed on the plans. Shape to grade with an allowable tolerance of 1/4 inch.

Grade the base 3 3/8 inches below final grade for 2 3/8-inch pavers. Obtain approval of Engineer before placement of the sand laying course.

Do not disturb sand laying course in any way once screeded and leveled to the desired elevation.

Lay the paving units so a desired pattern (90° herringbone bond) is maintained. Maintain the joints between the paving units not to exceed 1/8 inch.

Leave surplus material on the surface during construction to insure complete filling of joints. Sweep and clean the paver surface of all excess soil, foreign material, and stains upon completion of all installation work.

ITEM 530 – INTERSECTIONS, DRIVEWAYS, AND TURNOUTS

Notify property owners a minimum of 48 hr. in advance of beginning work on their driveway. Provide a list of each notification and contact prior to each closure. Only close driveways for reconstruction if duration and alternate access are approved. Install and maintain material across a work zone as temporary access. Temporary access must not have grade breaks that exceed 8%.

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This work is subsidiary.

Grade breaks must not exceed 8%. Sidewalk crossing slope will be 1.5% and 5 ft. wide with width reduction in approved locations.

For ACP or SURF TREAT, the pavement structure will match the adjacent roadway unless detailed on the plans. HMA, including surface, may use a maximum allowable amount of 40% RAP and 5% RAS for private driveways, public driveways for 2-lane roadways or smaller, and turnouts. Blending of 2 or more sources is allowed. Furnish base meeting the requirement for any type or grade in accordance with Item 247. Compressive strengths for flexible base are waived. Base must be placed using ordinary compaction.

For CONC, the pavement structure will be 6 in. thick and have 3 in. base bedding unless detailed on the plans. Furnish base meeting ACP or SURF TREAT requirements. Class A concrete is required and may use Coarse Aggregate Grades 1-8. Expansion joints will be placed every 20 ft. Expansion joints will be constructed as detailed in the latest TxDOT Concrete Curb and Curb and Gutter Standard. Reinforcement will be in accordance with concrete riprap for Item 432.3.1., unless specified on the plans.

ITEM 533 – MILLED RUMBLE STRIPS

For edge line rumble strips: Use Option 1 for shoulder width equal to or less than 2 ft. Use Option 3 for shoulder width greater than 2 ft. but less than 4 ft. Use Option 4 for shoulder width equal to or greater than 4 ft.

ITEM 540 - METAL BEAM GUARD FENCE

Adjust the limits of the Metal Beam Guard Fence (MBGF) to meet field conditions. Stake the locations for approval prior to installation. Install all permanent MBGF and delineators before opening the road to traffic.

Furnish round timber posts. Furnish steel posts at locations where the minimum embedment shown on the plans for wooden posts cannot be achieved. Field verify the steel post lengths before fabrication. Consider the steel posts subsidiary.

ITEM 542 – REMOVING METAL BEAM GUARD FENCE

Contractor retains all materials. Contractor may reuse steel posts, composite blocks, and metal beam rail elements that are undamaged, rust free, dent free, and in compliance with current standards. Structurally sound rust spots with the largest dimension of 4" may be cleaned and repaired in accordance with 540.3.5 Galvanizing Repair.

ITEM 545 - CRASH CUSHION ATTENUATORS

Use a coring machine or saw cut to remove the mounting hardware/bolts from the existing pavement. Cutting the hardware flush with the surface is not allowed. Refill voids in accordance with the pavement specification. This work is subsidiary.

ITEM 585 - RIDE QUALITY FOR PAVEMENT SURFACES

Use Surface Test Type B Pay Schedule 1 to evaluate ride quality of the Ramp and Frontage Road lanes.

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ITEM 600s – LIGHTING, SIGNING, MARKINGS, AND SIGNALS

Use materials from Material Producer List as shown on the TxDOT website (TxDOT.gov > Business > Resources). Furnish new material as required per Standard Specification.

Meet the requirements of the NEC, Texas MUTCD, TxDOT standards, and TxDOT Standard Specifications.

ITEM 610 - ROADWAY ILLUMINATION ASSEMBLIES

Upon removal, neatly stockpile a maximum of 10 assemblies that meet the current TxDOT standards at the TxDOT Georgetown Yard located at 2727 S. Austin Ave., Georgetown, TX 78626..

For each assembly, paint the service, circuit, run and assembly number/letter using 3 in. tall characters and black paint. The marking shall be stacked vertically in previous order with the service on top and the assembly number/letter on the bottom. Place 6' above the roadway surface on the hand hole/access door side of the pole or adjacent to the assembly if mounted to a structure. This work is subsidiary.

For both transformer and shoe-base type illumination poles, provide double-pole breakaway fuse holder.

Provide 10-amp time delay fuses.

Maintain all new and existing illumination for the duration of the contract. All existing illumination will remain operational until replaced by new illumination or required to be removed due to construction.

ITEM 618 - CONDUIT

Fit PVC and HDPE conduit terminations with bell ends.

The locations of conduit and ground boxes are diagrammatic, shift as directed to accommodate field conditions.

Install conduit in an area not exceeding 2 feet in any direction from a straight line.

Install conduit at a minimum depth of 2 ft. below finished grade. Installation of the conduit by jacking or boring method will be at a depth of at least 1 ft. below the bottom of the base material of the roadway.

Install a high tension, non-metallic pull rope in all conduit runs. The pull ropes are for future use. Cap all empty conduit using standard weather tight conduit caps as directed. This work is subsidiary.

Use a coring device when drilling holes through concrete structures.

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Structurally mounted junction boxes will be as shown on the plans. When used for traffic signal installations, these boxes will be 12" x 12" x 8", and will be approved by the Engineer. This work is subsidiary.

Use conduit hangers for 3 in. and larger conduit when hanging conduit from structures.

When using existing conduit, ensure that all conduits have bushings and cleaned of dirt, mud, grease, and other debris. Re-strap existing or relocated conduit per the specification. This work is subsidiary. Replacement of existing conduit that is unusable will be paid using the existing bid items.

ITEM 620 - ELECTRICAL CONDUCTORS

Provide and install 10 amp time delay fuses.

For Flashing Beacons (Item 685) and Pedestal Poles (Item 687), provide single-pole breakaway disconnects. Use Bussman HEBW, Littelfuse LEB, Ferraz-Shawmut FEB, or equal on ungrounded conductors. For all grounded conductors use Bussman HET, Littelfuse LET, Ferraz-Shawmut FEBN, or equal. These breakaway connectors have a white colored marking and a permanently installed solid neutral.

Install a minimum size 8 AWG equipment grounding conductor (EGC) in all conduits including loop detectors and traffic signal cables. Payment and the size of the EGC will be in accordance with standard ED (3)-14 note 12.

Clearly and permanently, mark "illumination" on the luminaire conductors installed in inside a traffic signal pole. Make the marks easily visible from the hand hole.

Identify the conductors as shown on the Electrical Details Standard Sheets when two or more conductors are present in one conduit or enclosure. Use identification tag with two plastic straps. Each tag will indicate circuit number, letter, or other identification as shown on the plans.

ITEM 628 – ELECTRICAL SERVICES

Provide a 40 day advance notice to the Austin District Signal Shop at (512) 832-7012 to obtain account information for setting up an electrical service.

ITEM 650 - OVERHEAD SIGN SUPPORTS

Use lengths of trusses, tower heights, and posts shown in the summaries for bidding purposes only. Verify these dimensions and vertical clearances prior to shop drawing production.

ITEM 658 – DELINEATOR AND OBJECT MARKER ASSEMBLIES

Installation and maintenance of portable CTB reflectors will be subsidiary to the barrier.

ITEM 662 - WORK ZONE PAVEMENT MARKINGS

Notify the Engineer at least 24 hours in advance of work for this item.

Project Number:
County: Williamson
Highway: IH 35

Sheet:
Control: 0015-09-180, etc

Maintain removable and short term markings daily. Remove within 48 hours after permanent striping has been completed.

Item 668 is not allowed for use as Item 662.

ITEM 666 - RETROREFLECTORIZED PAVEMENT MARKINGS

Notify the Engineer at least 24 hr. before beginning work.

When the raised portion of a profile marking is placed as a separate operation from the pavement marking, the raised portion must be placed first then covered with TY I.

Place longitudinal markings nightly for IH 35. Use of temporary flexible reflective roadway marker tabs on IH 35 is subsidiary and at the Contractor's option. Contractor must replace missing or damaged tabs nightly. If using tabs, place longitudinal markings weekly by 5 AM Friday for all prior work. Failure to maintain temporary markings or place longitudinal markings by deadline will require nightly placement of pavement markings.

Place longitudinal markings a minimum of once a week for all prior work for roadways listed in Table 1 of Item 502. Place longitudinal markings within 10 calendar days of placing surface for roadways with ADT greater than 5000. Except for IH 35, deadline may be extended to deadline per Item 662 if surface operations will complete within 7 calendar days.

Placement of markings using mobile operations will be limited to non-peak hours. Peak hours within Austin city limits are Monday thru Friday 6 AM to 10 AM and 2 PM to 7 PM. Peak hours outside Austin city limits are Monday thru Friday 6:30 AM to 9:30 AM and 3:00 PM to 6:30 PM. Peak hours for IH 35 are daily 5 AM to 9 PM.

TY II markings must cure 48 hr. prior to placing TY I markings.

Reference all existing stripes before commencing work. Obtain approval for placement of guide marks before installing permanent pavement markings. This work is subsidiary.

ITEM 677 - ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS

Remove and dispose of off the right of way any existing raised pavement markers and pavement markings before beginning operations. This work is subsidiary.

Black paint/thermo will not be allowed.

ITEM 730 – ROADSIDE MOWING

Perform roadside mowing along the Roadway for the length of the project, as directed.

Complete spot mowing, as directed.

ITEM 734 - LITTER REMOVAL

Complete Litter Removal Cycles along the Roadway for the length of the project, as directed.

Project Number:
County: Williamson
Highway: IH 35

Sheet:
Control: 0015-09-180, etc

Complete Litter Removal cycles prior to any mowing cycles.

Remove all liter on the right of way, within project limits.

ITEM 738 – CLEANING AND SWEEPING HIGHWAYS

Complete cleaning and sweeping cycles at the intervals, as directed. Complete one cycle at the end of construction and prior to final acceptance by the Department.

ITEM 6001 – PORTABLE CHANGEABLE MESSAGE SIGN

Provide 2 “Electronic” Portable Changeable Message Sign(s) (EPCMS) as part of the traffic control operations and provide another one that is available to utilize when a backup is needed. Consider the one designated for backup as subsidiary to the various Items of the project. All EPCMS will be exclusive to this project, unless otherwise approved. Placement location and message as directed.

Place appropriate number of “Electronic” Portable Changeable Message Signs (EPCMS) at locations requiring lane closures for one-week prior to the closures, or as directed. Obtain approval for the actual message that will appear on the boards. If more than two phases of a message are required per board, provide additional EPCMS’s to meet the two-phases-per-board requirement.

ITEM 6079 – AUTOMATED PORTABLE SMART TRAFFIC MONITORING SYSTEM

It is intended for Plan 1 to be implemented for all main lane closures and Plan 2 to be implemented during full main lane closures. The equipment shall be removed upon completion of the lane closure except for a PCMS that is being used to display lane closures notices. The use of the PCMS for lane closure notices will be paid in accordance with PCMS. Detector locations, PCMS messages, average speed thresholds, and spacing may be adjusted by the Engineer and is subsidiary. Nighttime lane closure that spans one day to the next will be measured as 1 calendar day. Lane closures with use longer than 24 hr. period will be measured by each 24 hr. period or any portion the unit is operational.

Plan 1	Average Speed (V) from Detector (mph)			
PCMS Message	4	3	2	1
LFT/RT LANE(S) CLOSED 3 MILES	>55 or =0	>55 or =0	>55 or = 0	>55 or =0
REDUCE SPEED 3 MILES	>55 or =0	>55 or =0	>55 or =0	40<=V<55
REDUCE SPEED 2 MILES	>55 or =0	>55 or =0	40<=V<55	>40 OR =0
REDUCE SPEED 1 MILE	>55 or =0	40<=V<55	>40 OR =0	>40 OR =0
REDUCE	40<=V<=55	>40 OR =0	>40 OR =0	>40 OR =0

SPEED AHEAD				
PREPARE TO STOP 3 MILES	>40 OR =0	>40 OR =0	>40 OR =0	0<=V<40
PREPARE TO STOP 2 MILES	>40 OR =0	>40 OR =0	0<=V<40	ANY VALUE
PREPARE TO STOP 1 MILE	>40 OR =0	0<=V<40	ANY VALUE	ANY VALUE
PREPARE TO STOP	0<=V<40	ANY VALUE	ANY VALUE	ANY VALUE

Plan 2

Average Speed (V) from Detector (mph)

PCMS Message 1	4	3	2	1
PCMS Message 2	8	7	6	5
LFT/RT LANE(S) CLOSED 3 MILES	>55 or =0	>55 or =0	>55 or =0	>55 or =0
LFT/RT LANE(S) CLOSED 6 MILES	>55 or =0	>55 or =0	>55 or =0	>55 or =0
REDUCE SPEED 3 MILES	>55 or =0	>55 or =0	>55 or =0	40<=V<55
LFT/RT LANE(S) CLOSED 6 MILES	>55 or =0	>55 or =0	>55 or =0	>55 or =0
REDUCE SPEED 2 MILES	>55 or =0	>55 or =0	40<=V<55	>40 OR =0
LFT/RT LANE(S) CLOSED 6 MILES	>55 or =0	>55 or =0	>55 or =0	>55 or =0
REDUCE SPEED 1 MILE	>55 or =0	40<=V<55	>40 OR =0	>40 OR =0
LFT/RT LANE(S) CLOSED 6 MILES	>55 or =0	>55 or =0	>55 or =0	>55 or =0
REDUCE SPEED AHEAD	40<=V<=55	>40 OR =0	>40 OR =0	>40 OR =0
LFT/RT LANE(S)	>55 or =0	>55 or =0	>55 or =0	>55 or =0

CLOSED 6 MILES				
PREPARE TO STOP	>40 OR =0	>40 OR =0	>40 OR =0	0<=V<40
3 MILES				
LFT/RT LANE(S)	>40 OR =0	>40 OR =0	>40 OR =0	>40 OR =0
CLOSED 6 MILES				
PREPARE TO STOP	>40 OR =0	>40 OR =0	0<=V<40	ANY VALUE
2 MILES				
LFT/RT LANE(S)	>40 OR =0	>40 OR =0	>40 OR =0	>40 OR =0
CLOSED 6 MILES				
PREPARE TO STOP	>40 OR =0	0<=V<40	ANY VALUE	ANY VALUE
1 MILE				
LFT/RT LANE(S)	>40 OR =0	>40 OR =0	>40 OR =0	>40 OR =0
CLOSED 6 MILES				
PREPARE TO STOP	0<=V<40	ANY VALUE	ANY VALUE	ANY VALUE
STOP				
LFT/RT LANE(S)	>40 OR =0	>40 OR =0	>40 OR =0	>40 OR =0
CLOSED 6 MILES				
LFT/RT LANE(S)	>40 OR =0	>40 OR =0	>40 OR =0	>40 OR =0
CLOSED 3 MILES				
REDUCE SPEED	>55 or =0	>55 or =0	>55 or =0	40<=V<55
3 MILES				
LFT/RT LANE(S)	>40 OR =0	>40 OR =0	>40 OR =0	>40 OR =0
CLOSED 3 MILES				
REDUCE SPEED	>55 or =0	>55 or =0	40<=V<55	>40 OR =0
2 MILES				
LFT/RT LANE(S)	>40 OR =0	>40 OR =0	>40 OR =0	>40 OR =0
CLOSED 3 MILES				
REDUCE SPEED	>55 or =0	40<=V<55	>40 OR =0	>40 OR =0
1 MILES				
LFT/RT LANE(S)	>40 OR =0	>40 OR =0	>40 OR =0	>40 OR =0
CLOSED				

Project Number:
County: Williamson
Highway: IH 35

Sheet:
Control: 0015-09-180, etc

3 MILES

REDUCE
SPEED

40<=V<=55 >40 OR =0 >40 OR =0 >40 OR =0

AHEAD

LFT/RT LANE(S)

ANY VALUE ANY VALUE ANY VALUE ANY VALUE

CLOSED

3 MILES

PREPARE
TO STOP

>40 OR =0 >40 OR =0 >40 OR =0 0<=V<40

3 MILES

LFT/RT LANE(S)

ANY VALUE ANY VALUE ANY VALUE ANY VALUE

CLOSED

3 MILES

PREPARE
TO STOP

>40 OR =0 >40 OR =0 0<=V<40 ANY VALUE

2 MILES

LFT/RT LANE(S)

ANY VALUE ANY VALUE ANY VALUE ANY VALUE

CLOSED

3 MILES

PREPARE
TO STOP

>40 OR =0 0<=V<40 ANY VALUE ANY VALUE

1 MILE

LFT/RT LANE(S)

ANY VALUE ANY VALUE ANY VALUE ANY VALUE

CLOSED

3 MILES

PREPARE
TO
STOP

0<=V<40 ANY VALUE ANY VALUE ANY VALUE

CONTROL : 0015-09-180, ETC
PROJECT : C 15-9-180, ETC
HIGHWAY : IH 35
COUNTY : WILLIAMSON

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
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) (400)
ITEM 160 TOPSOIL (168)
ITEM 164 SEEDING FOR EROSION CONTROL (162) (166) (168)
ITEM 168 VEGETATIVE WATERING
ITEM 169 SOIL RETENTION BLANKETS
ITEM 247 FLEXIBLE BASE (105) (204) (210) (216) (520)
ITEM 310 PRIME COAT (300) (316)
ITEM 316 SEAL COAT (210) (300) (302) (340) (520)
ITEM 341 DENSE-GRADED HOT-MIX ASPHALT (300) (301) (320) (520) (585)
ITEM 346 STONE-MATRIX ASPHALT (300) (301) (320) (520) (585)
ITEM 347 THIN OVERLAY MIXTURES (TOM) (300) (301) (320) (520) (585)
ITEM 354 PLANING AND TEXTURING PAVEMENT
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (110) (132) (401)
(402) (403) (416) (420) (421) (423)
ITEM 402 TRENCH EXCAVATION PROTECTION
ITEM 403 TEMPORARY SPECIAL SHORING (410) (411) (423)
ITEM 410 SOIL NAIL ANCHORS (421) (431) (440)
ITEM 416 DRILLED SHAFT FOUNDATIONS (405) (420) (421) (423) (440) (448)
ITEM 420 CONCRETE SUBSTRUCTURES (400) (421) (422) (426) (427) (440)
(441) (448)
ITEM 422 CONCRETE SUPERSTRUCTURES (420) (421) (424) (438) (440) (448)
(454) (780)
ITEM 423 RETAINING WALLS (110) (132) (216) (400) (416) (420) (421) (424)
(440) (445)
ITEM 425 PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS (420)

(421) (424) (426) (427) (434) (440) (442) (445) (448)

ITEM 432 RIPRAP (420) (421) (431) (440)

ITEM 438 CLEANING AND SEALING JOINTS

ITEM 442 METAL FOR STRUCTURES (441) (445) (446) (447) (448)

ITEM 450 RAILING (420) (421) (422) (424) (440) (441) (442) (445) (446) (448)

ITEM 454 BRIDGE EXPANSION JOINTS (429) (442) (785)

ITEM 460 CORRUGATED METAL PIPE (400) (402) (403) (445) (467) (476)

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)

ITEM 465 JUNCTION BOXES, MANHOLES, AND INLETS (400) (420) (421) (424) (440)

ITEM 466 HEADWALLS AND WINGWALLS (400) (420) (421) (432) (440) (464)

ITEM 467 SAFETY END TREATMENT (400) (420) (421) (432) (440) (442) (445) (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 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS (161) (432) (556)

ITEM 508 CONSTRUCTING DETOURS

ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (420) (421) (424) (440) (442)

ITEM 528 COLORED TEXTURED CONCRETE AND LANDSCAPE PAVERS (132) (401) (420) (421) (440)

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

ITEM 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247) (316)

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 610 ROADWAY ILLUMINATION ASSEMBLIES (416) (421) (432) (441) (442) (445) (449) (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 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 672 RAISED PAVEMENT MARKERS (677) (678)

ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)
(302) (316)
ITEM 678 PAVEMENT SURFACE PREPARATION FOR MARKINGS (677)
ITEM 730 ROADSIDE MOWING
ITEM 734 LITTER REMOVAL
ITEM 738 CLEANING AND SWEEPING HIGHWAYS

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

SPECIAL LABOR PROVISIONS FOR STATE PROJECTS (000---008)
WAGE RATES

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---001)
SPECIAL PROVISION "NONDISCRIMINATION" (000---002)
SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---010)
SPECIAL PROVISION "CERTIFICATE OF INTERESTED PARTIES (FORM 1295)"
(000---249)
SPECIAL PROVISION "SMALL BUSINESS ENTERPRISE IN STATE FUNDED PROJECTS
(000---009)
SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---261)
SPECIAL PROVISION TO ITEM 2 (002---004)
SPECIAL PROVISION TO ITEM 6 (006---001)
SPECIAL PROVISIONS TO ITEM 7 (007---001) (007---003) (007---004)
SPECIAL PROVISIONS TO ITEM 8 (008---006) (008---017)
SPECIAL PROVISION TO ITEM 300 (300---009)
SPECIAL PROVISION TO ITEM 421 (421---002)
SPECIAL PROVISION TO ITEM 506 (506---003)
SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 6079 (6079--001)

SPECIAL SPECIFICATIONS:

ITEM 6001 PORTABLE CHANGEABLE MESSAGE SIGN
ITEM 6049 LONGITUDINAL CHANNELIZING MOUNTABLE CURB SYSTEM
ITEM 6053 SHIFTING OR REMOVING EXISTING OVERHEAD SIGNS (634) (636)
(652) (654)
ITEM 6079 AUTOMATED PORTABLE SMART TRAFFIC MONITORING SYSTEM
ITEM 7056 WATER UTILITIES
ITEM 7060 WASTEWATER UTILITIES

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.

Control 0015-09-180, ETC.

Project C 15-9-180, ETC.

Highway IH 35

County WILLIAMSON

SMALL BUSINESS ENTERPRISES REQUIREMENTS

The following goal for small business enterprises is established:

SBE
7.5%

Special Provision to Item 000

Special Labor Provisions for State Projects



1. GENERAL

This is a "Public Works" Project, as provided under Government Code Title 10, Chapter 2258, "Prevailing Wage Rates," and is subject to the provisions of the Statute. No provisions in the Contract are intended to be in conflict with the provisions of the Statute.

The Texas Transportation Commission has ascertained and indicated in the special provisions the regular rate of per diem wages prevailing in each locality for each craft or type of worker. Apply the wage rates contained in the specifications as minimum wage rates for the Contract.

2. MINIMUM WAGES, HOURS AND CONDITIONS OF EMPLOYMENT

All workers necessary for the satisfactory completion of the work are within the purview of the Contract.

Whenever and wherever practical, give local citizens preference in the selection of labor.

Do not require any worker to lodge, board or trade at a particular place, or with a particular person as a condition of employment.

Do not charge or accept a fee of any from any person who obtains work on the project. Do not require any person who obtains work on the project to pay any fee to any other person or agency obtaining employment for the person on the project.

Do not charge for tools or equipment used in connection with the duties performed, except for loss or damage of property. Do not charge for necessary camp water.

Do not charge for any transportation furnished to any person employed on the project.

The provisions apply where work is performed by piece work, station work, etc. The minimum wage paid will be exclusive of equipment rental on any shipment which the worker or subcontractor may furnish in connection with his work.

Take responsibility for carrying out the requirements of this specification and ensure that each subcontractor working on the project complies with its provisions.

Any form of subterfuge, coercion or deduction designed to evade, reduce or discount the established minimum wage scales will be considered a violation of the Contract.

The Fair Labor Standards Acts (FLSA) established one and one-half (1-1/2) pay for overtime in excess of 40 hours worked in 1 week. Do not consider time consumed by the worker in going to and returning from the place of work as part of the hours of work. Do not require or permit any worker to work in excess of 40 hours in 1 week, unless the worker receives compensation at a rate not less than 1-1/2 times the basic rate of pay for all hours worked in excess of 40 hours in the workweek.

The general rates of per diem wages prevailing in this locality for each class and type of workers whose services are considered necessary to fulfill the Contract are indicated in the special provisions, and these rates govern as minimum wage rates on this Contract. A penalty of \$60.00 per calendar day or portion of a calendar day for each worker that is paid less than the stipulated general rates of per diem wages for any work done under the Contract will be deducted. The Department, upon receipt of a complaint by a worker,

will determine within 30 days whether good cause exists to believe that the Contractor or a subcontractor has violated wage rate requirements and notify the parties involved of the findings. Make every effort to resolve the alleged violation within 14 days after notification. The next alternative is submittal to binding arbitration in accordance with the provisions of the Texas General Arbitration Act (Art. 224 et seq., Revised Statutes).

Notwithstanding any other provision of the Contract, covenant and agree that the Contractor and its subcontractors will pay each of their employees and contract labor engaged in any way in work under the Contract, a wage not less than what is generally known as the "federal minimum wage" as set out in 29 U.S.C. 206 as that Statute may be amended from time to time.

Pay any worker employed whose position is not listed in the Contract, a wage not less than the per diem wage rate established in the Contract for a worker whose duties are most nearly comparable.

3. RECORD AND INSPECTIONS

Keep copies of weekly payrolls for review. Require subcontractors to keep copies of weekly payrolls for review. Show the name, occupation, number of hours worked each day and per diem wage paid each worker together with a complete record of all deductions made from such wages. Keep records for a period of 3 years from the date of completion of the Contract.

Where the piece-work method is used, indicate on the payroll for each person involved:

- Quantity of piece work performed.
- Price paid per piece-work unit.
- Total hours employed.

The Engineer may require the Contractor to file an affidavit for each payroll certifying that payroll is a true and accurate report of the full wages due and paid to each person employed.

Post or make available to employees the prevailing wage rates from the Contract. Require subcontractors to post or make available to employees the prevailing wage rates from the Contract.

Special Provision to Item 000

Small Business Enterprise in State Funded Projects



1. DESCRIPTION

The purpose of this Special Provision is to carry out the Texas Department of Transportation's policy of ensuring that Small Business Enterprise (SBE) has an opportunity to participate in the performance of contracts. If the SBE goal is greater than zero, Article A of this Special Provision shall apply to this Contract; otherwise, Article B of this Special Provision applies. The percentage goal for SBE participation in the work to be performed under this contract will be shown in the proposal.

2. DEFINITIONS

Small Business Enterprise (SBE) is a firm (including affiliates) certified by the Department whose annual gross receipts do not exceed the U.S. Small Business Administration's size standards for 4 consecutive years. Firms certified as Historically Underutilized Businesses (HUBs) by the Texas Comptroller of Public Accounts and as Disadvantaged Business Enterprises (DBEs) by the Texas Uniform Certification Program automatically qualify as SBEs.

2.1. Article A - SBE Goal is Greater than Zero.

2.1.1. **Policy.** The Department is committed to providing contracting opportunities for small businesses. In this regard, it is the Department's policy to develop and maintain a program in order to facilitate contracting opportunities for small businesses. Consequently, the requirements of the Department's Small Business Enterprise Program apply to this contract as follows:

2.1.1.1. The Contractor shall make a good faith effort to meet the SBE goal for this contract.

2.1.1.2. The Contractor and any Subcontractors shall not discriminate on the basis of race, color, national origin, age, disability or sex in the award and performance of this contract. These nondiscrimination requirements shall be incorporated into any subcontract and purchase order.

2.1.1.3. After a conditional award is made to the low bidder, the Department will determine the adequacy of a Contractor's efforts to meet the contract goal, as is outlined under Section 2, "Contractor's Responsibilities." If the requirements of Section 2 are met, the contract will be forwarded to the Contractor for execution.

The Contractor's performance, during the construction period of the contract in meeting the SBE goal, will be monitored by the Department.

2.1.2. **Contractor's Responsibilities.** These requirements must be satisfied by the Contractor. A SBE Contractor may satisfy the SBE requirements by performing at least 25% of the contract work with its own organization as defined elsewhere in the contract.

2.1.2.1. The Contractor shall submit a completed SBE Commitment Agreement Form for each SBE they intend to use to satisfy the SBE goal so as to arrive in the Department's Office of Civil Rights (OCR) in Austin, Texas not later than 5:00 p.m. on the 10th business day, excluding national holidays, after the conditional award of the contract. When requested, additional time, not to exceed 7 business days, excluding national holidays, may be granted based on documentation submitted by the Contractor.

2.1.2.2. A Contractor who cannot meet the contract goal, in whole or in part, shall document the good faith efforts taken to meet the SBE goal. The Department will consider as good faith efforts all documented explanations

that are submitted and that describe a Contractor's failure to meet a SBE goal or obtain SBE participation, including:

- 2.1.2.2.1. Advertising in general circulation, trade association, and/or minority/women focus media concerning subcontracting opportunities,
- 2.1.2.2.2. Dividing the contract work into reasonable portions in accordance with standard industry practices,
- 2.1.2.2.3. Documenting reasons for rejection or meeting with the rejected SBE to discuss the rejection,
- 2.1.2.2.4. Providing qualified SBEs with adequate information about bonding, insurance, plans, specifications, scope of work, and the requirements of the contract,
- 2.1.2.2.5. Negotiating in good faith with qualified SBEs, not rejecting qualified SBEs who are also the lowest responsive bidder, and;
- 2.1.2.2.6. Using the services of available minorities and women, community organizations, contractor groups, local, state and federal business assistance offices, and other organizations that provide support services to SBEs.
- 2.1.2.3. The good faith effort documentation is due at the time and place specified in Subarticle 2.(a). of this Special Provision. The Director of the DBE & SBE Programs Section will evaluate the Contractor's documentation. If it is determined that the Contractor has failed to meet the good faith effort requirements, the Contractor will be given an opportunity for reconsideration by the Department.
- 2.1.2.4. Should the bidder to whom the contract is conditionally awarded refuse, neglect or fail to meet the SBE goal and/or demonstrate to the Department's satisfaction sufficient efforts to obtain SBE participation, the proposal guaranty filed with the bid shall become the property of the State, not as a penalty, but as liquidated damages to the Department.
- 2.1.2.5. The Contractor must not terminate a SBE subcontractor submitted on a commitment agreement for a contract with an assigned goal without the prior written consent of the Department.
- 2.1.2.6. The Contractor shall designate a SBE contact person who will administer the Contractor's SBE program and who will be responsible for submitting reports, maintaining records, and documenting good faith efforts to use SBEs.
- 2.1.2.7. The Contractor must inform the Department of the representative's name, title and telephone number within 10 days of beginning work.
- 2.1.3. **Eligibility of SBEs.**
- 2.1.3.1. The Department certifies the eligibility of SBEs.
- 2.1.3.2. The Department maintains and makes available to interested parties a directory of certified SBEs.
- 2.1.3.3. Only firms certified at the time of letting or at the time the commitments are submitted are eligible to be used in the information furnished by the Contractor required under Section 2.(a) above.
- 2.1.3.4. Certified HUBs and DBEs are eligible as SBEs.
- 2.1.3.5. Small Business Size Regulations and Eligibility is referenced on e-CFR (Code of Federal Regulations), Title 13 – Business Credit and Assistance, Chapter 1 – Small Business Administration, Part 121 – Small Business Size Regulations, Subpart A – Size Eligibility Provisions and Standards.
- 2.1.4. **Determination of SBE Participation.** SBE participation shall be counted toward meeting the SBE goal in this contract in accordance with the following:

- 2.1.4.1. A Contractor will receive credit for all payments actually made to a SBE for work performed and costs incurred in accordance with the contract, including all subcontracted work.
- 2.1.4.2. A SBE Contractor or subcontractor may not subcontract more than 75% of a contract. The SBE shall perform not less than 25% of the value of the contract work with its own organization.
- 2.1.4.3. A SBE may lease equipment consistent with standard industry practice. A SBE may lease equipment from the prime contractor if a rental agreement, separate from the subcontract specifying the terms of the lease arrangement, is approved by the Department prior to the SBE starting the work in accordance with the following:
- 2.1.4.3.1. If the equipment is of a specialized nature, the lease may include the operator. If the practice is generally acceptable with the industry, the operator may remain on the lessor's payroll. The operator of the equipment shall be subject to the full control of the SBE, for a short term, and involve a specialized piece of heavy equipment readily available at the job site.
- 2.1.4.3.2. For equipment that is not specialized, the SBE shall provide the operator and be responsible for all payroll and labor compliance requirements.
- 2.1.5. **Records and Reports.**
- 2.1.5.1. The Contractor shall submit monthly reports, after work begins, on SBE payments, (including payments to HUBs and DBEs). The monthly reports are to be sent to the Area Engineer's office. These reports will be due within 15 days after the end of a calendar month.
- These reports will be required until all SBE subcontracting or supply activity is completed. The "SBE Progress Report" is to be used for monthly reporting. Upon completion of the contract and prior to receiving the final payment, the Contractor shall submit the "SBE Final Report" to the Office of Civil Rights and a copy to the Area Engineer. These forms may be obtained from the Office of Civil Rights and reproduced as necessary. The Department may verify the amounts being reported as paid to SBEs by requesting, on a random basis, copies of invoices and cancelled checks paid to SBEs. When the SBE goal requirement is not met, documentation supporting Good Faith Efforts, as outlined in Section 2.(b) of this Special Provision, must be submitted with the Final Report.
- 2.1.5.2. SBE subcontractors and/or suppliers should be identified on the monthly report by SBE certification number, name and the amount of actual payment made to each during the monthly period. **These reports are required regardless of whether or not SBE activity has occurred in the monthly reporting period.**
- 2.1.5.3. All such records must be retained for a period of 3 years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the Department.
- 2.1.6. **Compliance of Contractor.** To ensure that SBE requirements of this contract are complied with, the Department will monitor the Contractor's efforts to involve SBEs during the performance of this contract. This will be accomplished by a review of monthly reports submitted by the Contractor indicating his progress in achieving the SBE contract goal and by compliance reviews conducted by the Department.
- A Contractor's failure to comply with the requirements of this Special Provision shall constitute a material breach of this contract. In such a case, the Department reserves the right to employ remedies as the Department deems appropriate in the terms of the contract.
- 2.2. **Article B - No SBE Goal.**
- 2.2.1. **Policy.** It is the policy of the Department that SBEs shall have an opportunity to participate in the performance of contracts. Consequently, the requirements of the Department's Small Business Enterprise Program apply to this contract as specified in Section 2-5 of this Article.

- 2.2.2. **Contractor's Responsibilities.** If there is no SBE goal, the Contractor will offer SBEs an opportunity to participate in the performance of contracts and subcontracts.
- 2.2.3. **Prohibit Discrimination.** The Contractor and any subcontractor shall not discriminate on the basis of race, color, national origin, religion, age, disability or sex in the award and performance of contracts. These nondiscrimination requirements shall be incorporated into any subcontract and purchase order.
- 2.2.4. **Records and Reports.**
- 2.2.4.1. The Contractor shall submit reports on SBE (including HUB and DBE) payments. The reports are to be sent to the Area Engineer's office. These reports will be due annually by the 31st of August or at project completion, whichever comes first.
- These reports will be required until all SBE subcontracting or supply activity is completed. The "SBE Progress Report" is to be used for reporting. Upon completion of the contract and prior to receiving the final payment, the Contractor shall submit the "SBE Final Report" to the Office of Civil Rights and a copy to the Area Engineer. These forms may be obtained from the Office of Civil Rights and reproduced as necessary. The Department may verify the amounts being reported as paid to SBEs by requesting copies of invoices and cancelled checks paid to SBEs on a random basis.
- 2.2.4.2. SBE subcontractors and/or suppliers should be identified on the report by SBE Certification Number, name and the amount of actual payment made.
- 2.2.4.3. All such records must be retained for a period of 3 years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the Department.