

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 7/02/2009

Control	0255-01-074
Project	STP 2009(647)ES
Highway	US 281
County	JIM WELLS

Ladies/Gentlemen:

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

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

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

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

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

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

SUBJECT: PLANS AND PROPOSAL ADDENDUMS
PROJECT: STP 2009(647)ES CONTROL: 0255-01-074
COUNTY: JIM WELLS
LETTING: 07/07/2009
REFERENCE NO: 0702

PROPOSAL ADDENDUMS

- _ PROPOSAL COVER
X BID INSERTS (SH. NO.: 1 OF 16)
X GENERAL NOTES (SH. NO.: C AND H)

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

DELETED:

_ SPECIAL SPECIFICATIONS:
_ ADDED:

DELETED:

X OTHER: SEE CHANGES BELOW.

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

PROPOSAL:

BID INSERTS -

REVISED QUANTITIES FOR ITEMS 260-2016 AND 260-2027.

GENERAL NOTES -

ON SPEC DATA SHEET "C", ADDED START WORK DATE UNDER ITEM 8.

ON SPEC DATA SHEET "H", DELETED PARAGRAPH UNDER ITEM 421 THAT RELATED TO PROVIDING STRENGTH-TESTING EQUIPMENT.

ON SPEC DATA SHEET "T", REVISED BASIS OF ESTIMATE FOR ITEM 260.

PLANS:

PLAN SHEET 2 (INDEX OF SHEETS) -
REVISED INDEX TO INDICATE SHEET 262 TO BE SSCB.
PLAN SHEET 7A (GENERAL NOTES) -
DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

ON SPEC DATA SHEET "C", ADDED START WORK DATE UNDER ITEM 8; SHIFTING OF TEXT FROM PAGE TO PAGE DUE TO ADDITION OF NOTE.

PLAN SHEET 7B (GENERAL NOTES) -
SHIFTING OF TEXT FROM PAGE TO PAGE.

PLAN SHEET 7C (GENERAL NOTES) -
ON SPEC DATA SHEET "H", DELETED PARAGRAPH UNDER ITEM 421 THAT RELATED TO PROVIDING STRENGTH-TESTING EQUIPMENT.

PLAN SHEET 7I (GENERAL NOTES) -
ON SPEC DATA SHEET "T", REVISED BASIS OF ESTIMATE FOR ITEM 260.

PLAN SHEET 8 (ESTIMATE & QUANTITY SHEET) -
REVISED QUANTITIES FOR ITEMS 260-2016 AND 260-2027.

PLAN SHEET 20 (ROADWAY QUANTITIES) -
REVISED QUANTITIES FOR ITEM 260.

PLAN SHEET 27 (SUMMARY OF MATERIALS TEMPORARY TRAFFIC SIGNALS) -
ADDED ROW FOR VIVDS DETECTION SYSTEM.

PLAN SHEET 72 (US 281 LANE RENTAL SHEETS) -
REVISED FEE SCHEDULE FOR LANE CLOSURES.

PLAN SHEET 140 (US 281 OVERLAY SHEETS) -
ADDED TYPICAL SHOULDER-UP DETAIL.

PLAN SHEET 172 (SURFACE AND AESTHETIC TREATMENTS) -
REVISED SHEET DELETING SURFACE FINISHES D AND E FROM SCHEDULE OF FINISHES AND COLORS.

PLANS SHEET 262 (FM 2508 OVERPASS SSCB) -
REVISED STANDARD SHEET - SHEET REVISED THE ANCHORAGE OPTIONS FOR THE SINGLE SLOPE MEDIAN BARRIER ON THE BRIDGE; THE CHANGE IN OPTION WILL ALLOW A SINGLE SCREED TO BE USED ACROSS THE FULL 82' WIDTH OF THE BRIDGE WITHOUT HAVING THE BARRIER ANCHORAGE TO BE IN THE WAY.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	002	PREPARING ROW DOLLARS and CENTS	STA	99.000	1
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	35,079.000	2
	132	2006		EMBANKMENT (FINAL)(DENS CONT)(TY C) DOLLARS and CENTS	CY	159,312.000	3
	134	2004		BACKFILL (TY A OR B) DOLLARS and CENTS	STA	107.700	4
	164	2035	004	DRILL SEEDING (PERM) (RURAL) (CLAY) DOLLARS and CENTS	SY	183,504.000	5
	166	2002	001	FERTILIZER DOLLARS and CENTS	TON	8.000	6
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	2,945.300	7
	247	2041	033	FL BS (CMP IN PLC)(TY A GR 1)(FNAL POS) DOLLARS and CENTS	CY	60,821.000	8
	251	2030		REWORK BS MTL (TY C) (8") (ORD COMP) DOLLARS and CENTS	SY	82,413.000	9
	260	2016	001	LIME (HYD, COM, OR QK(SLURRY)) DOLLARS and CENTS	TON	2,649.000	10
	260	2027	001	LIME TRT (EXST MATL)(8") DOLLARS and CENTS	SY	133,517.000	11

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	ITEM NO	DESC CODE	S.P. NO.				
	310	2001		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	22,686.000	12
	316	2402		ASPH (AC-5, AC-10, CRS-2, OR HFRS-2) DOLLARS and CENTS	GAL	64,737.000	13
	316	2590		AGGR(TY PB GR 4 OR TY PB GR 4S)SAC-B DOLLARS and CENTS	CY	1,454.000	14
	341	2064	020	D-GR HMA(QCQA) TY-C SAC-B PG76-22 DOLLARS and CENTS	TON	17,696.000	15
	341	2136	020	D-GR HMA(QCQA) TY-D SAC-B PG76-22 DOLLARS and CENTS	TON	16.000	16
	341	2257	020	D-GR HMA(QCQA) TY-B PG76-22 DOLLARS and CENTS	TON	38,282.000	17
	351	2004		FLEXIBLE PAVEMENT STRUCTURE REPAIR(8") DOLLARS and CENTS	SY	1,266.680	18
	354	2021		PLANE ASPH CONC PAV(0" TO 2") DOLLARS and CENTS	SY	4,220.000	19
	354	2045		PLANE ASPH CONC PAV (2") DOLLARS and CENTS	SY	2,068.000	20
	354	2049		PLANE ASPH CONC PAV (6") DOLLARS and CENTS	SY	82,413.000	21

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	ITEM NO	DESC CODE	S.P. NO.				
	400	2005		CEM STABIL BKFL and DOLLARS CENTS	CY	1,306.000	22
	400	2006		CUT & RESTORING PAV and DOLLARS CENTS	SY	45.000	23
	401	2001		FLOWABLE BACKFILL and DOLLARS CENTS	CY	5.360	24
	402	2001		TRENCH EXCAVATION PROTECTION and DOLLARS CENTS	LF	93.000	25
	416	2004	001	DRILL SHAFT (36 IN) and DOLLARS CENTS	LF	954.000	26
	416	2018	001	DRILL SHAFT (SIGN MTS)(24 IN) and DOLLARS CENTS	LF	64.000	27
	416	2029	001	DRILL SHAFT (RDWY ILL POLE) (30 IN) and DOLLARS CENTS	LF	232.000	28
	420	2003	002	CL C CONC (ABUT) and DOLLARS CENTS	CY	75.600	29
	420	2004	002	CL C CONC (BENT) and DOLLARS CENTS	CY	122.400	30
	420	2013	002	CL C CONC (MISC) and DOLLARS CENTS	CY	19.000	31
	420	2033	002	CL S CONC (APPR SLAB) and DOLLARS CENTS	CY	128.400	32

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	ITEM NO	DESC CODE	S.P. NO.				
	420	2046	002	CL B CONC (MEDIAN DRAIN) and DOLLARS CENTS	EA	2.000	33
	420	2216	002	CL S CONC (SUPPORT SLAB) and DOLLARS CENTS	CY	25.300	34
	422	2001		REINF CONC SLAB and DOLLARS CENTS	SF	17,220.000	35
	423	2001		RETAINING WALL (MSE) and DOLLARS CENTS	SF	66,183.900	36
	425	2067	001	PRESTR CONC GIRDER (TX46) and DOLLARS CENTS	LF	2,205.000	37
	428	2002	001	CONC SURF TREAT (CLASS II) and DOLLARS CENTS	SY	1,811.000	38
	432	2040		RIPRAP (MOW STRIP)(5 IN) and DOLLARS CENTS	CY	329.200	39
	432	2050		RIPRAP (CONC)(CL B)(5 IN) and DOLLARS CENTS	CY	227.000	40
	432	2072		RIPRAP (CONC)(CL B)(RR8&RR9) and DOLLARS CENTS	CY	94.500	41
	442	2005	005	STR STL (MISCELLANEOUS) and DOLLARS CENTS	LB	418.000	42
	450	2013		RAIL (TY SSTR) and DOLLARS CENTS	LF	4,420.000	43

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	ITEM NO	DESC CODE	S.P. NO.				
	452	2007		REMOVE RAIL (TY 6) DOLLARS and CENTS	LF	200.000	44
	454	2001		SEALED EXPANSION JOINT (4 IN)(SEJ-A) DOLLARS and CENTS	LF	161.000	45
	462	2003		CONC BOX CULV (4 FT X 2 FT) DOLLARS and CENTS	LF	478.000	46
	462	2014		CONC BOX CULV (7 FT X 3 FT) DOLLARS and CENTS	LF	560.000	47
	464	2003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	212.000	48
	464	2005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	3,080.000	49
	464	2007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	160.000	50
	465	2003	001	INLET (COMPL)(TY H) DOLLARS and CENTS	EA	2.000	51
	465	2006	001	MANH (COMPL)(JUNCT BOX)(TY M) DOLLARS and CENTS	EA	2.000	52
	465	2215	001	INLET (COMPL)(TY H)(SPL) DOLLARS and CENTS	EA	20.000	53
	467	2107		SET (TY I)(S= 4 FT)(HW= 3 FT)(4:1)(C) DOLLARS and CENTS	EA	2.000	54

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	ITEM NO	DESC CODE	S.P. NO.				
	467	2154		SET (TY I)(S= 4 FT)(HW= 3 FT)(6:1)(C) DOLLARS and CENTS	EA	2.000	55
	467	2165		SET (TY I)(S= 7 FT)(HW= 5 FT)(6:1)(C) DOLLARS and CENTS	EA	8.000	56
	467	2177		SET (TY I)(S= 4 FT)(HW= 3 FT)(6:1)(P) DOLLARS and CENTS	EA	4.000	57
	467	2224		SET (TY II)(24 IN)(RCP)(4:1)(C) DOLLARS and CENTS	EA	1.000	58
	467	2234		SET (TY II)(18 IN)(RCP)(6:1)(C) DOLLARS and CENTS	EA	1.000	59
	467	2236		SET (TY II)(24 IN)(RCP)(6:1)(C) DOLLARS and CENTS	EA	9.000	60
	467	2286		SET (TY II)(18 IN)(RCP)(6:1)(P) DOLLARS and CENTS	EA	2.000	61
	467	2288		SET (TY II)(24 IN)(RCP)(6:1)(P) DOLLARS and CENTS	EA	16.000	62
	467	2290		SET (TY II)(30 IN)(RCP)(6:1)(P) DOLLARS and CENTS	EA	8.000	63
	472	2005		REMOV & RE-LAY PIPE (24 IN) DOLLARS and CENTS	LF	36.000	64
	496	2001		REMOV STR (BOX CULVERT) DOLLARS and CENTS	EA	1.000	65

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	ITEM NO	DESC CODE	S.P. NO.				
	496	2004		REMOV STR (SET) and DOLLARS CENTS	EA	2.000	66
	496	2007		REMOV STR (PIPE) and DOLLARS CENTS	LF	12.000	67
	496	2016		REMOV STR (PIPE) and DOLLARS CENTS	EA	14.000	68
	500	2001	005	MOBILIZATION and DOLLARS CENTS	LS	1.000	69
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING and DOLLARS CENTS	MO	18.000	70
	502	2047	033	OFF-DUTY POLICE OFFICER and DOLLARS CENTS	HR	48.000	71
	506	2017	011	CONSTRUCTION EXITS (INSTALL) (TY 2) and DOLLARS CENTS	SY	78.000	72
	506	2019	011	CONSTRUCTION EXITS (REMOVE) and DOLLARS CENTS	SY	78.000	73
	506	2024	011	BACKHOE WORK (EROSION & SEDM CONT) and DOLLARS CENTS	HR	58.000	74
	508	2002		CONSTRUCTING DETOURS and DOLLARS CENTS	SY	10,988.000	75

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	ITEM NO	DESC CODE	S.P. NO.				
	512	2014	001	PORT CTB (DES SOURCE)(SNGL SLP)(TY 2) DOLLARS and CENTS	LF	8,940.000	76
	512	2023	001	PORT CTB (MOVE)(SNGL SLP) (TY 2) DOLLARS and CENTS	LF	9,990.000	77
	512	2032	001	PORT CTB (STKPL)(SNGL SLP) (TY 2) DOLLARS and CENTS	LF	8,760.000	78
	514	2004	001	PERM CONC TRF BARR (SGL SLP)(TY 1)(42") DOLLARS and CENTS	LF	210.000	79
	514	2005	001	PERM CONC TRF BARR (SGL SLP)(TY 2)(42") DOLLARS and CENTS	LF	4,998.000	80
	514	2006	001	PERM CONC TRF BARR (SGL SLP)(TY 3)(42") DOLLARS and CENTS	LF	20.000	81
	529	2018		CONC CURB(MONO)(TY II)(SPECIAL) DOLLARS and CENTS	LF	774.000	82
	530	2011		DRIVEWAYS (ACP) DOLLARS and CENTS	SY	611.000	83
	530	2017		TURNOUTS (ACP) DOLLARS and CENTS	SY	1,960.000	84
	531	2010		CURB RAMPS (TY 7) DOLLARS and CENTS	EA	12.000	85
	531	2043		CONC SIDEWALKS(6')(5") DOLLARS and CENTS	LF	836.000	86

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	ITEM NO	DESC CODE	S.P. NO.				
	533	2001		SHOULDER TEXTURING (MILLED) DOLLARS and CENTS	STA	378.000	87
	540	2001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	1,700.000	88
	540	2005		TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	4.000	89
	540	2011		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	4.000	90
	540	2013		MTL BEAM GD FEN TRANS (T101) DOLLARS and CENTS	EA	8.000	91
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	1,900.000	92
	542	2002		REMOVING TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	4.000	93
	544	2003	001	GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	12.000	94
	544	2005	001	GDRAIL END TRT(INST)(WOOD POST)(TY II) DOLLARS and CENTS	EA	12.000	95
	545	2058		CRASH CUSH ATTEN (INSTL) (N) DOLLARS and CENTS	EA	7.000	96
	545	2059		CRASH CUSH ATTEN (MOVE & RESET) (N) DOLLARS and CENTS	EA	5.000	97

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	ITEM NO	DESC CODE	S.P. NO.				
	545	2060		CRASH CUSH ATTEN (REMOVE) (N) DOLLARS and CENTS	EA	3.000	98
	560	2006	001	MAILBOX INSTALL-S (RR-POST) TY 4 FND- TB DOLLARS and CENTS	EA	6.000	99
	610	2025	006	INS RD IL AM (TY SA) 40T-8 (.25 KW)S DOLLARS and CENTS	EA	29.000	100
	610	2059	006	INS RD IL AM (U/P) (TY IF) (.15KW) DOLLARS and CENTS	EA	4.000	101
	618	2018		CONDT (PVC) (SCHD 40) (2") DOLLARS and CENTS	LF	5,277.000	102
	618	2019		CONDT (PVC) (SCHD 40) (2") (BORE) DOLLARS and CENTS	LF	865.000	103
	618	2044		CONDT (RM) (3/4") DOLLARS and CENTS	LF	179.000	104
	620	2009	001	ELEC CONDR (NO. 6) BARE DOLLARS and CENTS	LF	6,235.000	105
	620	2010	001	ELEC CONDR (NO. 6) INSULATED DOLLARS and CENTS	LF	12,690.000	106
	620	2015	001	ELEC CONDR (NO.12) BARE DOLLARS and CENTS	LF	214.000	107

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	ITEM NO	DESC CODE	S.P. NO.				
	620	2016	001	ELEC CONDR (NO.12) INSULATED DOLLARS and CENTS	LF	428.000	108
	624	2008		GROUND BOX TY A (122311) W/APRON DOLLARS and CENTS	EA	7.000	109
	628	2014		ELC SRV TY A 240/480 060 (NS)SS(E)GC(O) DOLLARS and CENTS	EA	4.000	110
	636	2001	014	ALUMINUM SIGNS (TY A) DOLLARS and CENTS	SF	28.000	111
	636	2002	014	ALUMINUM SIGNS (TY G) DOLLARS and CENTS	SF	525.000	112
	644	2022		INS SM RD SN SUP&AM TY S80(1) SA(P) DOLLARS and CENTS	EA	10.000	113
	644	2023		INS SM RD SN SUP&AM TY S80(1) SA(P-BM) DOLLARS and CENTS	EA	5.000	114
	644	2025		INS SM RD SN SUP&AM TY S80(1) SA(T) DOLLARS and CENTS	EA	34.000	115
	644	2027		INS SM RD SN SUP&AM TY S80(1) SA(U) DOLLARS and CENTS	EA	3.000	116
	644	2030		INS SM RD SN SUP&AM TY S80(1) SA(U-BM) DOLLARS and CENTS	EA	2.000	117
	644	2042		INS SM RD SN SUP&AM TY S80(2) SA(P) DOLLARS and CENTS	EA	2.000	118

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	ITEM NO	DESC CODE	S.P. NO.				
	644	2043		INS SM RD SN SUP&AM TY S80(2)SA(P-EXAL) DOLLARS and CENTS	EA	2.000	119
	644	2058		RELOCATE SM RD SN SUP & AM TY S80 DOLLARS and CENTS	EA	29.000	120
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	65.000	121
	647	2001		INSTALL LRSS (STRUCT STEEL) DOLLARS and CENTS	LB	2,700.200	122
	658	2249	006	INSTL DEL ASSM (D-SW)SZ 1(RCR)GF2 DOLLARS and CENTS	EA	16.000	123
	658	2258	006	INSTL DEL ASSM (D-SW)SZ (TYC)CTB DOLLARS and CENTS	EA	42.000	124
	658	2273	006	INSTL DEL ASSM (D-SY)SZ 1(RCR)GF2 DOLLARS and CENTS	EA	20.000	125
	658	2278	006	INSTL DEL ASSM (D-SY)SZ (TYC)CTB(BI) DOLLARS and CENTS	EA	53.000	126
	658	2306	006	INSTL DEL ASSM (D-DY)SZ 1(RCR)GND DOLLARS and CENTS	EA	20.000	127
	658	2334	006	INSTL OM ASSM (OM-2Z)(RCR)GND DOLLARS and CENTS	EA	21.000	128
	658	2345	006	INSTL OM ASSM (OM-2Z)(RCR)SRF DOLLARS and CENTS	EA	2.000	129

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	ITEM NO	DESC CODE	S.P. NO.				
	662	2001		WK ZN PAV MRK NON-REMOV (W) 4" (BRK) DOLLARS and CENTS	LF	3,810.000	130
	662	2004		WK ZN PAV MRK NON-REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	34,316.000	131
	662	2012		WK ZN PAV MRK NON-REMOV (W) 8" (SLD) DOLLARS and CENTS	LF	3,275.000	132
	662	2017		WK ZN PAV MRK NON-REMOV (W) (ARROW) DOLLARS and CENTS	EA	13.000	133
	662	2019		WK ZN PAV MRK NON-REMOV (W) (ENTR GORE) DOLLARS and CENTS	EA	1.000	134
	662	2020		WK ZN PAV MRK NON-REMOV (W) (EXIT GORE) DOLLARS and CENTS	EA	1.000	135
	662	2027		WK ZN PAV MRK NON-REMOV (W) (WORD) DOLLARS and CENTS	EA	13.000	136
	662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	36,033.000	137
	662	2037		WK ZN PAV MRK NON-REMOV (Y) 12" (SLD) DOLLARS and CENTS	LF	1,311.000	138
	662	2052		WK ZN PAV MRK REMOV (REFL) TY I-C DOLLARS and CENTS	EA	1,971.000	139

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	ITEM NO	DESC CODE	S.P. NO.				
	662	2054		WK ZN PAV MRK REMOV (REFL) TY II-A-A DOLLARS and CENTS	EA	2,008.000	140
	662	2060		WK ZN PAV MRK REMOV (TRAF BTN) TY W DOLLARS and CENTS	EA	4,302.000	141
	662	2062		WK ZN PAV MRK REMOV (TRAF BTN) TY Y DOLLARS and CENTS	EA	4,544.000	142
	662	2079		WK ZN PAV MRK REMOV (W) 24" (SLD) DOLLARS and CENTS	LF	128.000	143
	662	2104		WK ZN PAV MRK REMOV (Y) 12" (SLD) DOLLARS and CENTS	LF	318.000	144
	662	2113		WK ZN PAV MRK SHT TERM (TAB) TY W DOLLARS and CENTS	EA	2,697.000	145
	662	2114		WK ZN PAV MRK SHT TERM (TAB) TY Y DOLLARS and CENTS	EA	149.000	146
	666	2035		REFL PAV MRK TY I (W) 8" (SLD)(090MIL) DOLLARS and CENTS	LF	9,073.000	147
	668	2103		PREFAB PAV MRK TY C (W) (12") (SLD) DOLLARS and CENTS	LF	309.000	148
	668	2105		PREFAB PAV MRK TY C (W) (24") (SLD) DOLLARS and CENTS	LF	628.000	149
	668	2106		PREFAB PAV MRK TY C (W) (ARROW) DOLLARS and CENTS	EA	15.000	150

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	ITEM NO	DESC CODE	S.P. NO.				
	668	2116		PREFAB PAV MRK TY C (W) (WORD) DOLLARS and CENTS	EA	15.000	151
	668	2117		PREFAB PAV MRK TY C (W) (18")(YLD TRI) DOLLARS and CENTS	EA	130.000	152
	668	2128		PREFAB PAV MRK TY C (Y) (24") (SLD) DOLLARS and CENTS	LF	70.000	153
	672	2014	034	REFL PAV MRKR TY I-R DOLLARS and CENTS	EA	52.000	154
	672	2019	034	TRAFFIC BUTTON TY I-A DOLLARS and CENTS	EA	519.000	155
	672	2021	034	TRAFFIC BUTTON TY II-A-A DOLLARS and CENTS	EA	40.000	156
	672	2022	034	TRAFFIC BUTTON TY II-C-R DOLLARS and CENTS	EA	998.000	157
	677	2001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	37,850.000	158
	677	2007		ELIM EXT PAV MRK & MRKS (24") DOLLARS and CENTS	LF	48.000	159
	681	2001		TEMP TRAF SIGNALS DOLLARS and CENTS	EA	1.000	160
	730	2002		FULL-WIDTH MOWING DOLLARS and CENTS	AC	75.400	161

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	5049	2002		BIODGRD EROSION CONTROL LOGS (18" DIA) DOLLARS and CENTS	LF	1,077.000	162
	5261	2001		GEOGRID BASE REINFORCEMENT (TY I) DOLLARS and CENTS	SY	133,517.000	163
	5696	2001		REMOV SHLD TXTR DOLLARS and CENTS	LF	13,932.000	164
	6007	2001		REMOVING TRAFFIC SIGNALS DOLLARS and CENTS	EA	1.000	165
	6834	2001		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	DAY	286.000	166
	8251	2002		RE PM W/RET REQ TY I(W)4"(BRK)(090MIL) DOLLARS and CENTS	LF	7,417.000	167
	8251	2005		RE PM W/RET REQ TY I(W)4"(SLD)(090MIL) DOLLARS and CENTS	LF	34,953.000	168
	8251	2017		RE PM W/RET REQ TY I(Y)4"(SLD)(090MIL) DOLLARS and CENTS	LF	35,887.000	169

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GENERAL NOTES:

Find for your information and convenience tools such as forms, software, materials, and various other Contractor information provided by the Department at <http://www.dot.state.tx.us/business/>. Please note that these tools are updated periodically and your attention is directed to the latest edition.

Saw cut the existing pavement to ensure a neat transverse and/or longitudinal line to assure a smooth tie-in with new pavement. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Sweep, clean and remove any construction waste, surplus materials or debris from the roadway and right of way at the end of each day unless otherwise approved. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Promptly pick up and properly dispose of paper and other materials used for joints.

In the event of a called evacuation, emergencies, impending adverse weather or as directed, do not perform any work without written authorization. The District reserves the right to suspend all work in support of evacuations or emergencies occurring from other parts of the state. Any work performed, other than work directed by the Department, is unauthorized work in accordance with Item 5.

All pavement markings shall be in accordance with the latest edition of Texas MUTCD.

The asphalt season for the placement of asphalt surface courses is March 15 to November 15 unless otherwise approved.

Stencil the National Bridge Inventory (NBI) number on each bridge and bridge class culvert. Use 3" letters or numbers. Use stain and color as approved. Paint will not be permitted. Locate the NBI number on the outside beam immediately adjacent to the abutment on the downstream end, on the outside headwall upper right-hand corner, or as directed. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 2

It is recommended that prospective bidders examine the specified work locations with the Engineer to view the nature of the work, the need for close coordination with the various utilities, the traffic control considerations, and other factors influencing the prosecution of the work.

ITEM 5

The responsibility for the construction surveying on this contract will be in accordance with Item 5.6.A, "Method A".

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Field verify all dimensions and notify Engineer prior to initiating any work.

Notify the Engineer immediately of utility conflicts in accordance with Item 5.5.B. Refer to Item 4.3 for consideration of differing site conditions.

Establish and mark the location of existing standard pavement markings including but not limited to edge lines, transitions, passing and no passing zones, gore areas, etc.

Verify the locations of utilities, underground or overhead, shown within the limits of the right-of-way. Contact the utility companies for locations and notify the Texas One Call System at 1-800-245-4545 (Toll Free) at least 48 hours prior to beginning any work in the area. Adhere to OSHA Standards when working within the vicinity of overhead power lines. Coordinate with the utility companies and notify the Engineer of any possible conflicts. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Prospective bidders may borrow reproducible earthwork cross-sections from the Area Engineer's office for making copies with a minimum twenty-four (24) hour notice.

ITEM 6

Work Inspection accomplished in concrete product plants is as follows: TxDOT's Materials and Pavement Section will inspect any precast units or pipe in precasting yards as well as where bridge components or pipe are being supplied to projects outside the district. The Area Engineer will inspect all other precast units.

ITEM 7

The work performed for Item 7.7, "Public Safety and Convenience" will not be measured or paid for directly, but will be subsidiary to pertinent Items.

The total disturbed area for this project is 37.76 acres. The disturbed area in this project, all project locations in the Contract, and Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain any required authorization from the TCEQ for any Contractor PSLs for construction support activities on or off ROW. When the total area disturbed for all projects in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer.

Comply with the Texas Aggregate Quarry and Pit Safety Act for waste areas or material source areas resulting from this project.

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When working at street, farm-to-market, state highway, and county road intersections, schedule work to minimize intersection closures. During nonworking hours, all public road intersections will be open to the traveling public.

ITEM 8

Prepare the progress schedule using the Critical Path Method (CPM). Submit (2) two 11" x 17" hard copies and an electronic file of the original or updated progress schedule. Submit the original progress schedule seven (7) days before the Preconstruction Conference.

Submit an updated progress schedule as directed to show proposed major changes, changes affecting compliance with the contract requirements, or changes affecting the critical path/controlling item of work.

Working days will be computed and charge in accordance with Article 8.3.A.4, "Standard Workweek".

Nighttime work is allowable.

Notify the Engineer at least 48 hours in advance of weekend or nighttime work.

No work allowed above traffic.

Any lane closure will be assessed a lane rental charge as shown on the lane rental sheets. The entire hour will be charged for any lane closure no matter the amount of time closed.

The earliest start work date will be December 1, 2009.

ITEM 9

Submit the approved forms to request compensation for material-on-hand (MOH) at least three (3) working days prior to the end of the month. Include any requests from subcontractors, suppliers, or fabricators.

ITEM 100

Prepare the right of way from station 1686+00(G) to station 1785+00(G). Remove and dispose of all obstructions shown and not specifically shown in the plans.

Prune trees and shrubs as directed. Use accepted pruning practices in accordance with Item 192 and as defined by the National Arborist Association. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

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Coordinate all right of way preparation activities with the project's Storm Water Pollution Prevention Plan (SWP3) and Environmental Permit Issues, and Commitments Sheet (EPIC) or as approved.

ITEM 110

For earth cuts, manipulate and compact subgrade in accordance with Item 132.3.D.2, "Compaction Methods, Density Control".

ITEM 132

Use embankment material with a plasticity index (PI) ranging from 10 to 40. Blend or treat approved materials to achieve the desired PI and pulverize the material so that 100% passes the 3 inch sieve. Retest materials as borrow sources change or when the material changes significantly. Notify the Engineer of the proposed material sources and of changes to material sources. The Engineer may sample and test project materials at any time before compaction throughout the duration of the project to assure specification compliance. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

The estimated quantities for embankments adjacent to culverts and bridges were calculated using the average-end-area method.

ITEM 134

Backfill pavement edges with reclaimable asphalt material (R.A.P.).

Use backfill material with a plasticity index (PI) ranging from 15 to 35. Notify the Engineer of the proposed material sources and of changes to material sources. The Engineer may sample and test project materials at any time before compaction throughout the duration of the project to assure specification compliance.

Manipulate and compact backfill material in accordance with Item 132.3.D.1, "Ordinary Compaction". The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Windrow the existing topsoil and grass along the edge of the grading operations or as directed. After grading operations are completed, spread the topsoil and grass uniformly on all slopes and ditch lines. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 164

Do not cover seeds with more than 0.25 inch of topsoil. Do not use light disking as a method to cover seeds with topsoil. Roll seeds with a corrugated roller.

Use a tacking agent of 50% SS-1 and 50% water and apply the agent at a rate of 0.10 gal/sy or as directed. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Restore and seed areas not shown in the plans disturbed by the Contractor’s operations. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Notify the Engineer of the unavailability of any seed mix. Make changes to the seed mix as approved.

ITEM 166

Fertilize all areas of the project to be seeded. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Furnish and apply the complete fertilizer with an analysis of 16-8-8 at a rate of 60 LB of nitrogen per acre.

ITEM 168

Distribute water to only those areas shown in the plans or as directed. Excessive overspray will not be permitted.

Water all areas of the project to be seeded every two (2) days for 90 days or as directed. Apply water in a manner to ensure adequate moisture but not to erode the soil in-place. During periods of adequate moisture, mechanical watering may not be required as approved. Upon final stabilization, the Engineer may require to continue watering as specified for a period not to exceed 30 days.

The Basis of Estimate below establishes the approximate quantity of water required to complete the 90-day watering cycle:

<u>Rate</u>	<u>Water (Gal/Acre/Month)</u>	<u>Area (Acre)</u>	<u>Total Gallons (MG)(3 months)</u>
0.25 inch/week	26,000	37.76	2945.3

ITEM 247

When requested, stake with blue tops, at 100-foot intervals, the lines and grade shown in the plans.

For Table 1, “Material Requirements” there is no minimum plasticity index (PI) required.

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The Engineer may accept material during stockpile operations, from completed stockpiles, or windrows. The Engineer will select any of these locations or any combination thereof with the provision that at least one out of ten consecutive samples will be taken at the project site.

ITEM 251

Salvage base shall remain the property of TxDOT and shall be delivered to the locations shown on the TEP sheets.

ITEM 302

Provide aggregates with a minimum surface aggregate classification (SAC) of "B". The SAC for sources on the Department's Aggregate Quality Monitoring Program (AQMP) is listed in the Department's Bituminous Rated Source Quality Catalogue (BRSQC). SAC requirements apply to aggregates used on all final roadway surfaces, including shoulders.

When using asphalt emulsion, use precoat material for the aggregates as approved.

ITEM 310

Use MC-30 at a rate of 0.20 gallons per square yard or as directed.

ITEM 316

Material rates shown are for estimating purposes only. Adjust actual rates based on the material used, the existing condition and type of roadway surface, and as approved. When using asphalt emulsion, a minimum 24-hour curing period is required before placing any subsequent asphalt courses.

Broom and clean sealed sections of roadway and all adjacent paved surfaces, including the gutter line, of any surplus aggregate before opening to traffic or as directed by the Engineer.

Do not place surface treatment on exposed concrete structures unless directed.

Furnish a distributor equipped with a hand hose in working condition.

Remove vegetation and blade pavement edges prior to surfacing operations. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Stockpiling of aggregates may begin after the execution of the Authorization to Begin Work or issuance of the work order.

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Clean aggregates showing signs of excessive dust from the stockpile or while handling during construction. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 320

Provide windrow pick-up equipment as approved.

Use of motor grader will not be permitted unless approved.

ITEM 341

Use of Contractor-owned RAP including HMA plant waste will not be permitted.

Department-owned RAP generated through required work on the Contract is available for the Contractor's use.

Provide aggregates with a minimum surface aggregate classification (SAC) of "B". SAC requirements apply to aggregates used on all final roadway surfaces, including shoulders.

Use crushed gravel screenings with or in lieu of stone screenings.

Use a cut-off chute when placing hot-mix asphalt on narrow width locations unless approved.

Construct longitudinal joints with a joint maker providing a maximum one (1) inch vertical edge (1/2 inch desirable) with an adjacent 6:1 taper. Construct the outside edge with a 6:1 taper or backfill within the same day.

The laboratory-molded density for this project will be 97% in accordance with test method TEX-207-F for the Type B & C HMA.

ITEM 354

Reclaimable asphalt material (R.A.P.) may be retained only if incorporated into the project. Incorporate the R.A.P. into the pavement structure, into the backfill for pavement edges, into temporary structures, or as approved. Any excess R.A.P. will be stockpiled at the locations shown on the TCP sequence of construction.

ITEM 400

Compact each layer to meet the density and consolidation of the adjacent undisturbed material.

Use cement-stabilized backfill for culvert and storm drains located beneath the pavement structure.

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ITEM 420

Apply curing compound by means of an approved mechanical-powered pressure sprayer either air or airless. Use hand-pressurized spray equipment on small miscellaneous concrete repairs and or placements.

Promptly apply an ordinary surface finish to all concrete surfaces once meeting curing requirements.

Interior bent concrete will be a plans quantity item.

Set a Department-furnished brass disk on all bridge abutments and culvert headwalls as directed. The work performed will not be measured or paid directly, but will be subsidiary to pertinent Items.

ITEM 421

Furnish test molds for cylindrical concrete specimens measuring six (6") inches in diameter by twelve (12") inches in length.

The Engineer will provide strength-testing equipment for acceptance testing.

Furnish curing facilities adequately sized for this project as approved.

Air-entrained concrete is not required.

ITEM 423

Furnish and install pipe underdrains for all retaining walls. Include the details and manufacturer, the limits and dimensions, the outfall location, and all details necessary to incorporate the underdrain system in the working drawings. The work performed for the underdrain system within the limits of the retaining wall will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Provide surface finishes and colors as shown on the Surface & Aesthetics plan sheets.

Place the select and embankment backfill to the same elevation where possible. Do not exceed a 2 feet difference in elevation at any time.

Backfill used within the MSE wall reinforced volume shall conform to the select backfill gradation limits of Ty A Backfill.

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Use the approved Mechanically Stabilized Earth (MSE) wall systems listed at:
http://www.dot.state.tx.us/business/contractors_consultants/bridge/retaining_wall.htm.

ITEM 427

Provide a rub finish for Surface Area II unless otherwise directed.

ITEM 432

Saw cut the existing riprap to ensure a neat transverse and/or longitudinal line to assure a smooth tie-in with new riprap. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Use Cap Option C for the joint between the face of the abutment and riprap as shown on the standard sheet "Concrete Riprap (CRR)."

ITEM 462

Use cold-applied, plastic asphalt sewer joint compound for all joints. Provide sandproof tape for all pipe placed in cohesionless backfill material as approved, or provide gaskets that conform to Item 464.2.I.3.

The work performed for concrete collars will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 464

The work performed for concrete collars will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 465

The work performed for concrete collars will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Shape and route floor inverts passing out r through the manhole or inlet with Class "B" concrete. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Precast tops will not be permitted unless approved.

Inlet extensions will require 6"x 6" support posts from top of inlet to gutter.

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ITEM 467

The work performed for concrete collars will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Reinforce concrete riprap with 4 x 4 – W2.9 x W2.9 welded wire fabric or with No. 3 reinforcing bars spaced at a maximum of 12 inch in each direction.

The inside surfaces of the pipe in the sloped end sections shall be formed to the satisfaction of the Engineer.

Place safety end treatments with a uniform slope.

The use of precast Type II safety end treatments with integrally cast riprap aprons is allowed as approved.

Provide 5/8" x 6" galvanized hooked bolts with 2 hex nuts at a spacing not to exceed 24 inches center to center for metal pipes with riprap sloped headwalls. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 496

Notify the Engineer no later than 20 calendar days prior to the demolition of the structure(s) for coordination with the Texas Department of State Health Services.

Disassemble, deliver and neatly stack salvageable materials at the Texas Department of Transportation maintenance yard. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 500

"Materials on Hand" payments are not considered when determining partial payments.

ITEM 502

Furnish additional barricades, signs, and traffic handling as directed. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Traffic control for daytime lane closures shall be in accordance with TCP(1-2)-98 & TCP(2-6)-98.

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When advanced warning flashing arrow panels are specified, furnish one (1) standby unit in good condition at the job site for immediate use.

The Contractor's Responsible Person (CRP) or his representative(s) shall be located within one hour of traveling time to the project site. The Contractor shall notify the Engineer in writing of the name, physical address, and telephone number of this employee or these employees. The Engineer shall furnish this information to local law enforcement officials.

Provide a positive means of communication between flaggers unless otherwise approved.

Attach stop/slow paddle to a staff with a minimum length of 6 feet to the bottom of the sign.

Maintain traffic control devices by taking corrective action as soon as possible. Complete corrective action within 48 hours of written notification regardless of the day of the week involved unless otherwise directed.

The use of a pilot vehicle in conjunction with flaggers will be permitted. If used, provide positive and unrestricted communication between the driver of the pilot vehicle and the flaggers. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 504

Apply for and secure permits necessary for the buildings, and pay all utility meter deposits and service bills. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Provide two sets of keys for all facilities, which include the field office and/or laboratory.

Maintain all mechanical, electrical and plumbing facilities at all times.

Provide janitorial services as needed.

Provide one (1) Type C Structure (Field Office). This field office shall be for TxDOT use only and shall be a separate structure from the Contractor's facilities.

Furnish and install adequate equipment, outlets, lighting, air conditioning, heating and ventilation as approved. Arrange and install outlets as directed with no less than 1 outlet per wall. Portable toilets will not be allowed.

Provide 2 standard size office desk, 4 office chairs, 1 drafting table, 1 drafting stool, 2 bookcases, and 2 filing cabinets as approved. Provide solar screens, blinds, or shades.

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Provide 1 phone line and 2 phones. Submit a copy of the monthly phone bill for review to monitor phone usage. A cell phone will not be allowed unless approved.

Provide a paper copier and facsimile.

Provide one (1) Type D Structure (Asphalt Mix Control Laboratory). This laboratory shall be for TxDOT use only and shall be a separate structure from the Contractor's facilities.

Furnish and install adequate equipment, outlets, lighting, air conditioning, heating and ventilation as approved. Arrange and install outlets as directed with no less than 1 outlet per wall. Portable toilets will not be allowed.

Provide 1 standard size office desk, 2 office chairs, 1 drafting table, 1 drafting stool, 1 bookcase, and 1 filing cabinet as approved. Provide solar screens, blinds, or shades.

Provide 1 phone line and 1 phone. Submit a copy of the monthly phone bill for review to monitor phone usage. A cell phone will not be allowed unless approved.

Provide a paper copier and facsimile.

Provide hot water or a hot water dispenser capable of generating one (1) gallon of water at 140 degrees Fahrenheit with acceptable water pressure.

Use support blocks for stability and tied down portable structures according to applicable zoning requirements or as directed.

Provide Safety Equipment as follows:

- (1) ONE EYE WASH STATION
- (2) ONE FIRE EXTINGUISHER
- (3) ONE FIRST AID KIT

Provide doors with a minimum width of 36 inches and 80 inches in height. Secure all exterior openings with bars.

Provide electrical service for the asphalt content by Ignition Method.

ITEM 506

Designate in writing a Contractor Responsible Person (CRP) for implementing, maintaining, and reviewing environmental requirements.

ITEM 512

Use a Type A or J joint when using Type 2 precast concrete traffic barriers.

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ITEM 529

Construct an expansion joint at a depth equal to the depth of the curb, gutter, and combined curb and gutter every 40 feet. Construct a tooled joint every 10 feet. When sidewalks are constructed next to curb or curb and gutter, place sidewalk expansion joints at the same location as the curb and gutter expansion joints.

ITEM 530

Replace existing driveways not shown on the plans when directed. The work performed will be measured or paid for by Item 530, "Driveways".

If conditions warrant, driveway locations, widths, or lengths may be adjusted as directed.

ITEM 531

Reinforce sidewalks with 4 x 4 – W2.9 x W2.9 welded wire fabric or with No. 3 reinforcing bars spaced at a maximum of 12 inch in each direction unless otherwise shown.

Construct an expansion joint at a depth equal to the depth of the sidewalk every 40 feet. Construct a tooled joint every 5 feet. When sidewalks are constructed next to curb or curb and gutter, place sidewalk expansion joints at the same location as the curb and gutter expansion joints.

Provide terracotta, truncated dome pattern detectible warning materials for the curb ramp detection zone. Mixing of detectable warning materials is not permitted.

ITEM 540

Mixing of wood post types and shapes will not be permitted at the same location.

Complete each location during the working day. No exposed bridge rail or guard fence ends will be permitted at the end of the working day or unattended during the working day.

ITEM 542

Disassemble, deliver and neatly stack salvageable materials at a Texas Department of Transportation maintenance yard. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 544

Drill an 18-inch pilot hole for post embedment.

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The method of placing steel tubes in drilled holes is not permitted.

ITEM 560

Coordinate with the local United States Postal Service to mark the location of the temporary mailboxes. Permanent mailbox locations may be adjusted as directed.

ITEM 585

Use Surface Test Type B and Pay Adjustment Schedule 2 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

Use latest version of approved Ride Quality Software.

Perform surface test(s) prior to backfilling the pavement edges.

For QC Testing, provide inertial profiler results the same working day after paving.

ITEM 610

Fabricate steel roadway illumination poles in accordance with the latest version of the Roadway Illumination Standards. Poles fabricated according to the latest version of the standards require no shop drawings. Alternate designs to the latest version of the standards or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to TxDOT home page, Business with TxDOT, Bridge information, Shop drawings. File is titled: Guide to Electronic Shop Drawing Submittal.

Internal conductors to make connections to the pole foundations or bases will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Provide a double-pole breakaway fuse holder and 10-amp time delay fuses for transformer and shoe-base type illumination poles.

ITEM 618

Jacking of conduit will not be permitted.

Provide wide sweep conduit elbows.

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Seal all conduits terminating in ground boxes and pole foundations with a sealant made of polyurethane or equivalent that will cure in the presence of moisture. Ensure sealant is suitable for sealing ends with electrical conductor extending past the ends of the conduit. Inject the sealant a minimum of 3 inches and a maximum of 5 inches into the conduit.

Provide rigid metal conduit (RMC) elbows for all underground conduit bends of 45 degrees or more, including bends into ground boxes. Provide a polyvinyl chloride conduit (PVC) elbow in lieu of a RMC elbow for conduit 1 inch or larger. Ensure the elbow is the same schedule rating as the conduit to which it is connected.

Bond the RMC to the grounding conductor with grounding type bushings when the RMC is exposed or extends into the ground box.

Provide a flat, high tensile strength polyester fiber pull tape in each conduit to pull conductors.

Provide polymer concrete junction boxes for concrete traffic barrier. The work will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 620

Bond grounding conductors that share the same conduit, junction box, ground box, or structure together at every accessible point.

ITEM 628

Provide a meter box for all electrical services.

ITEM 636

Disassemble, deliver and neatly stack salvageable materials at a Texas Department of Transportation maintenance yard. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 644

Use crash worthy supports as shown on the BC sheets, or as directed for signs relocated using temporary supports. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Disassemble, deliver and neatly stack salvageable materials at a Texas Department of Transportation maintenance yard. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 662

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Apply an asphalt adhesive to short-term pavement markers to ensure they adhere to the roadway surface when directed. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Use temporary flexible-reflective roadway marker tabs at the beginning and end of no passing zones as shown on the TCP (7-1)-98 for seal coats and WZ(STPM)-03 for hot mix overlays.

ITEM 677

Eliminate all conflicting pavement markings as work progresses or as directed.

Use Method A for asphaltic pavements. Use a PB Grade 5 aggregate at application rate of 1CY/130 SY and AC-5 or AC-10 at an application rate of 0.275 gal/sy or as directed by the Engineer.

ITEM 680

Ensure controller assemblies are compatible with existing closed loop traffic signal system.

Do not activate traffic signals without approval. For new signal installations, notify the Engineer two (2) weeks in advance of the activation date for advertisement purposes and place the signals on flash as directed.

ITEM 681

Use LED optical units for the signal heads unless otherwise approved.

Provide a controller assembly capable of operating the temporary traffic signals as approved. Coordinate an inspection of the unit prior to installation in the field.

ITEM 684

Coil an extra 5 feet of cable in each ground box, pole base, and controller assembly.

Aluminum conductors will be permitted.

ITEM 685

Provide solar powered flasher controller assemblies capable of a 24-hr flash with dual indications.

The work to connection the flasher assemblies to the signal heads will not be measured or paid for directly, but will be subsidiary to pertinent Items.

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Provide single-pole breakaway disconnects. Use Bussman HEBW, Littlefuse LEB, Ferraz-Shawmut FEB, or equal on ungrounded conductors and grounded conductors. Ensure the disconnects have a white colored marking and a permanently installed solid neutral.

ITEM 687

Provide single-pole breakaway disconnects. Use Bussman HEBW, Littlefuse LEB, Ferraz-Shawmut FEB, or equal on ungrounded conductors and grounded conductors. Ensure the disconnects have a white colored marking and a permanently installed solid neutral.

ITEM 730

Provide full-width mowing for a period of 2 cycles or as directed.

ITEM 6007

Remove the existing overhead flashing beacons located in each direction of US 281 at FM 2508. The flashing beacon assemblies are mounted on span wire on wood poles with illumination. Request the power disconnect through the Traffic Operations office.

ITEM 6834

A minimum of 2 PCMS will be required. However, additional units may be necessary depending on the work in progress.

The Engineer will provide the sign message text to use at each sign.

The Contractor's Responsible Person (CRP) will maintain full control of messages at all times.

Standby time will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Furnish the portable changeable message signs displaying the correct message at least seven (7) days prior to beginning work or as directed.

ITEM 8251

Establish and mark the location of existing standard pavement markings including but not limited to edge lines, transitions, passing and no passing zones, gore areas, etc.

Place pavement markings no later than 14 calendar days after the placement of the surface. When inclement weather prohibits placement of the markings, the 14-day period may be extended until weather permits proper application.

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SPECIFICATION DATA

UNIT WEIGHT ESTIMATES

EXISTING SUBGRADE ----- 110 LBS/CF
ITEM 247 - FL BS (CMP IN PLC) (TY A GR 1)(FNAL POS)----- 136 LBS/CF
ITEM 341 – (6”)D-GR HMA (QCQA) TY B SAC-B PG 76-22----- 660 LBS/SY
ITEM 341 – (2”)D-GR HMA (QCQA) TY C SAC-B PG 76-22----- 220 LBS/SY
ITEM 310 – PRIME COAT (MC-30)

COMPACTION REQUIREMENTS

ITEM 132 – EMBANKMENT (FINAL)(DENS CONT) (TY C)
PLASTICITY INDEX ----- 40 MAX
PLASTICITY INDEX----- 10 MIN
DENSITY ----- AS SHOWN ON
TABLE 2 OF ITEM 132
LIFTS----- ALL

COMPACTION REQUIREMENTS FOR BASE COURSE

ITEM 247—FL BS (CMP IN PLC)(TY A GR 1) (FNAL POS)
DENSITY ----- 100% MIN
LIFTS----- ALL

PRIME COAT

ASPHALT, TYPE ----- MC-30
AVERAGE ASPHALT RATE (GAL/SY) -----0.20

SURFACE TREATMENT DATA

ONE COURSE UNDERSEAL
ASPHALT, TYPE ----- ASPH (AC-5, AC-10, CRS-2, HFRS-2)
ASPHALT RATE (GAL/SY)----- 0.390
AGGREGATE RATE (CY/SY)-----1/115
AGGREGATE TYPE ----- PB
AGGREGATE GRADE----- 4 or 4S SAC B

Project Number:

Sheet

County: Jim Wells

Control: 0255-01-074

Highway: US 281

ROLLING (FLAT WHL) (HR/SY)----- 1:100

ROLLING (LT PNEU) (HR/SY)----- 1:2500

ITEM 166

FERTILIZER @ 375 LBS PER ACRE -----8 TONS

ITEM 168

VEGETATIVE WATERING @ 26,000 GAL/ACRE/MONTH ----- 2945.3 MG

Project Number:

Sheet

County: Jim Wells

Control: 0255-01-074

Highway: US 281

*****BASIS OF ESTIMATE*****

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>BASIS</u>	<u>QUANTITY.</u>
ITEM 247	FLEX BASE (DENS CONT) (TY-A GR-1) (17")	117,682.42	60,350 CY
ITEM 247	FLEX BASE (DENS CONT) (TY-A GR-1) (12")	1,412.88	471 CY
ITEM 260	LIME	133,517.00	2649 TONS
ITEM 260	LIME TRT (EXIST MTL) (8")		133,517 SY
ITEM 310	PRIME COAT (MC-30)	113,430.00	22,686 GALS
ITEM 316	ASPH (AC-5, AC-10, CRS-2, HFRS-2)	165,992.30	64,737 GALS
ITEM 316	AGGR (TY-PB GR-4 OR 4S SAC-B)	167,210.00	1,454 CY
ITEM 341	ASPH CONC PAV TY C (2")	104,601.58	17,696 TON
ITEM 341	ASPH CONC PAV TY B (6")	107,673.30	38,282 TON
ITEM 341	ASPH CONC PAV TY D (1")	364.44	16 TON
ITEM 423	RETAINING WALL (MSE)		66,183.9 SF
ITEM 5121	GEOGRID REINFORCEMENT TY 1		133,517 SY
ITEM 6834	PORTABLE CHANGEABLE MESSAGE. SIGNS (2PCMS)		628 DAYS