

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 3/06/2009

Control	0134-08-030, ETC.
Project	NH 2007(235), ETC.
Highway	US 380
County	WISE

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: NH 2007(235)

CONTROL: 0134-08-030

COUNTY: WISE

LETTING: 03/10/2009

REFERENCE NO: 0306

PROPOSAL ADDENDUMS

PROPOSAL COVER

X BID INSERTS (SH. NO.: 1-22 thru 22-22)

X GENERAL NOTES (SH. NO.: sheets K thru W)

SPEC LIST (SH. NO.:)

SPECIAL PROVISIONS:)

ADDED:)

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: See changes outlined below

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

Bid Inserts:

- Sheet 1-22: Revised quantity for item 110-2004
- Revised quantity for item 132-2008
- Sheet 2-22: Revised quantity for item 169-2006
- Revised quantity for item 260-2016
- Sheet 3-22: Revised quantity for item 260-2027
- Revised quantity for item 310-2005
- Revised quantity for item 316-2014
- Revised quantity for item 316-2174
- Sheet 4-22: Revised quantity for item 341-2011
- Revised quantity for item 341-2048
- Revised quantity for item 360-2004
- Revised quantity for item 360-2006
- Sheet 6-22: Revised quantity for item 432-2037
- Revised quantity for item 432-2019
- Sheet 8-22: Revised quantity for item 464-2010
- Revised quantity for item 464-2011
- Sheet 9-22: Revised quantity for item 464-2042
- Sheet 11-22: Removed item 466-2116

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

Sheet 12-22: Revised quantity for item 466-2146
Sheet 14-22: Added item 506-2009
Sheet 15-22: Revised quantity for item 530-2010
 Added item 530-2011
 Added item 530-2023
Sheets 16-22 thru 22-22 shifted due to item additions.

General Notes:

Sheet K: Revision of note for item 275
Sheet L: Revision of note for item 314
Sheet M: Revision of note for item 356
Sheet R: revision to note for items 530 and 531
Sheets k thru W information shifted due to note changes.

Plan Set:

The following sheets have been replaced due to changes listed above:
2, 3, 18E-18K, 19, 19A - 19D, 28, 29, 31, 32, 33, 33A, 35
138, 141, 148-155, 156-207, 215-224, 227, 228, 278, 278A, 281, 295.

The following sheet have been added due to changes listed above:
134A

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	608.300	1
	105	2045		REMOVING STAB BASE AND ASPH PAV (2"- 8") DOLLARS and CENTS	SY	4,884.000	2
	106	2001		OBLITERATING ABANDONED ROAD DOLLARS and CENTS	STA	8.500	3
	110	2004		EXCAVATION (ROADWAY AND CHANNEL) DOLLARS and CENTS	CY	620,235.000	4
	132	2003		EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS	CY	6,000.000	5
	132	2008		EMBANKMENT (FINAL)(DENS CONT)(TY D) DOLLARS and CENTS	CY	547,719.000	6
	134	2001		BACKFILL (TY A) DOLLARS and CENTS	STA	1,161.000	7
	161	2002	001	COMPOST MANUF TOPSOIL (BOS) (4") DOLLARS and CENTS	SY	755,448.000	8
	164	2023	002	CELL FBR MLCH SEED(PERM)(RURAL)(CLAY) DOLLARS and CENTS	SY	755,448.000	9
	164	2029	002	CELL FBR MLCH SEED(TEMP)(WARM) DOLLARS and CENTS	SY	377,724.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	164	2031	002	CELL FBR MLCH SEED(TEMP)(COOL) DOLLARS and CENTS	SY	377,724.000	11
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	15,864.000	12
	169	2005	001	SOIL RETENTION BLANKETS (CL 2) (TY E) DOLLARS and CENTS	SY	75,191.000	13
	169	2006	001	SOIL RETENTION BLANKETS (CL 2) (TY F) DOLLARS and CENTS	SY	9,278.000	14
	216	2001		PROOF ROLLING DOLLARS and CENTS	HR	50.000	15
	247	2060	020	FL BS (CMP IN PLC)(TY E GR 4)(FNAL POS) DOLLARS and CENTS	CY	1,013.000	16
	247	2064	020	FL BS (CMP IN PLC)(TY A GR 4) (6") DOLLARS and CENTS	SY	48,003.000	17
	247	2201	020	FL BS (CMP IN PLC) (TY A GR 4) (8") DOLLARS and CENTS	SY	16,991.000	18
	251	2035		REWORK BS MTL (TY D) (6") (DENS CONT) DOLLARS and CENTS	SY	8,289.000	19
	260	2016	001	LIME (HYD, COM, OR QK(SLURRY)) DOLLARS and CENTS	TON	7,696.000	20
	260	2022	001	LIME TRT (EXIST MATL)(18") DOLLARS and CENTS	SY	56,736.000	21

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	ITEM NO	DESC CODE	S.P. NO.				
	260	2027	001	LIME TRT (EXST MATL)(8") DOLLARS and CENTS	SY	330,492.000	22
	275	2001		CEMENT DOLLARS and CENTS	TON	289.000	23
	275	2010		CEMENT TREAT (SUBGRADE) (8") DOLLARS and CENTS	SY	15,439.000	24
	275	2018		CEMENT TREAT (NEW BASE)(36") DOLLARS and CENTS	SY	1,191.000	25
	305	2012		SLV, HAUL & STKPL RCL APH PV (6 TO 12") DOLLARS and CENTS	SY	144,795.000	26
	310	2005		PRIME COAT (MC-30 OR AE-P) DOLLARS and CENTS	GAL	80,873.000	27
	316	2014		ASPH (CRS-1P) DOLLARS and CENTS	GAL	29,247.000	28
	316	2174		AGGR(TY-B GR-4 SAC-B) DOLLARS and CENTS	CY	548.000	29
	316	2221		AGGR(TY-PB GR-3 SAC-B) DOLLARS and CENTS	CY	3,068.000	30
	316	2223		AGGR(TY-PB GR-4 SAC-B) DOLLARS and CENTS	CY	2,219.000	31
	316	2629		ASPH (AC 15P OR AC 20XP) DOLLARS and CENTS	TON	848.000	32

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	ITEM NO	DESC CODE	S.P. NO.				
	341	2011	020	D-GR HMA(QCQA) TY-B PG64-22 DOLLARS and CENTS	TON	93,755.000	33
	341	2048	020	D-GR HMA(QCQA) TY-C SAC-B PG70-22 DOLLARS and CENTS	TON	19,293.000	34
	356	2007		ASPH BINDER(PG 64-22) DOLLARS and CENTS	GAL	38,745.000	35
	356	2017		FABRIC DOLLARS and CENTS	SY	129,151.000	36
	360	2004	003	CONC PVMT (CONT REINF-CRCP)(11") DOLLARS and CENTS	SY	205,719.000	37
	360	2006	003	CONC PVMT (CONT REINF-CRCP)(13") DOLLARS and CENTS	SY	89,419.000	38
	360	2021	003	CONC PVMT (CONT REINF-CRCP)(6") DOLLARS and CENTS	SY	7,143.000	39
	400	2008		CUT & RESTORING PAV (ASPH) DOLLARS and CENTS	SY	1,134.000	40
	401	2001		FLOWABLE BACKFILL DOLLARS and CENTS	CY	9.300	41
	402	2001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	3,579.000	42
	403	2001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	6,692.000	43

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	ITEM NO	DESC CODE	S.P. NO.				
	416	2002	001	DRILL SHAFT (24 IN) and DOLLARS CENTS	LF	282.000	44
	416	2004	001	DRILL SHAFT (36 IN) and DOLLARS CENTS	LF	2,488.000	45
	416	2015	001	DRILL SHAFT (NON-REINFORCED)(12 IN) and DOLLARS CENTS	LF	7.000	46
	416	2018	001	DRILL SHAFT (SIGN MTS)(24 IN) and DOLLARS CENTS	LF	54.000	47
	416	2029	001	DRILL SHAFT (RDWY ILL POLE) (30 IN) and DOLLARS CENTS	LF	32.000	48
	420	2003	002	CL C CONC (ABUT) and DOLLARS CENTS	CY	162.300	49
	420	2013	002	CL C CONC (MISC) and DOLLARS CENTS	CY	17.000	50
	420	2027	002	CL F CONC (BENT) and DOLLARS CENTS	CY	238.500	51
	420	2033	002	CL S CONC (APPR SLAB) and DOLLARS CENTS	CY	183.400	52
	422	2001		REINF CONC SLAB and DOLLARS CENTS	SF	48,539.000	53
	425	2004	001	PRESTR CONC BEAM (TY IV) and DOLLARS CENTS	LF	6,331.070	54

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	ITEM NO	DESC CODE	S.P. NO.				
	425	2049	001	PRESTR CONC SLAB BEAM (5SB15)(BASE) DOLLARS and CENTS	LF	592.500	55
	428	2001	001	CONC SURF TREAT (CLASS I) DOLLARS and CENTS	SY	6,662.400	56
	432	2002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	211.000	57
	432	2019		RIPRAP (STONE PROTECTION)(12 IN) DOLLARS and CENTS	CY	642.000	58
	432	2021		RIPRAP (STONE PROTECTION)(18 IN) DOLLARS and CENTS	CY	325.300	59
	432	2023		RIPRAP (STONE PROTECTION)(24 IN) DOLLARS and CENTS	CY	2,051.800	60
	432	2037		RIPRAP (STONE TY R)(DRY)(18 IN) DOLLARS and CENTS	CY	325.000	61
	432	2040		RIPRAP (MOW STRIP)(5 IN) DOLLARS and CENTS	CY	200.000	62
	432	2042		RIPRAP (STONE TY R)(GROUT)(18") DOLLARS and CENTS	CY	81.000	63
	432	2066		RIPRAP (CONC)(CL B) DOLLARS and CENTS	CY	1.400	64
	450	2003		RAIL (TY T203) DOLLARS and CENTS	LF	264.000	65

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	ITEM NO	DESC CODE	S.P. NO.				
	450	2008		RAIL (TY T502) and DOLLARS CENTS	LF	2,414.990	66
	454	2005		ARMOR JOINT (WITH SEAL) and DOLLARS CENTS	LF	268.400	67
	459	2001		GABIONS (PVC) and DOLLARS CENTS	CY	338.000	68
	459	2007		GABION MATTRESSES (PVC)(12 IN) and DOLLARS CENTS	SY	2,057.000	69
	462	2006		CONC BOX CULV (5 FT X 2 FT) and DOLLARS CENTS	LF	103.000	70
	462	2008		CONC BOX CULV (5 FT X 4 FT) and DOLLARS CENTS	LF	376.000	71
	462	2019		CONC BOX CULV (8 FT X 4 FT) and DOLLARS CENTS	LF	310.000	72
	462	2028		CONC BOX CULV (9 FT X 9 FT) and DOLLARS CENTS	LF	278.000	73
	462	2030		CONC BOX CULV (10 FT X 6 FT) and DOLLARS CENTS	LF	109.000	74
	462	2040		CONC BOX CULV (5 FT X 6.5 FT) and DOLLARS CENTS	LF	302.000	75
	462	2099		CONC BOX CULV (11 FT X 10 FT) and DOLLARS CENTS	LF	256.000	76

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	464	2002		RC PIPE (CL III)(15 IN) and DOLLARS CENTS	LF	35.000	77
	464	2003		RC PIPE (CL III)(18 IN) and DOLLARS CENTS	LF	4,875.000	78
	464	2005		RC PIPE (CL III)(24 IN) and DOLLARS CENTS	LF	1,169.000	79
	464	2007		RC PIPE (CL III)(30 IN) and DOLLARS CENTS	LF	533.000	80
	464	2009		RC PIPE (CL III)(36 IN) and DOLLARS CENTS	LF	906.000	81
	464	2010		RC PIPE (CL III)(42 IN) and DOLLARS CENTS	LF	407.000	82
	464	2011		RC PIPE (CL III)(48 IN) and DOLLARS CENTS	LF	914.000	83
	464	2012		RC PIPE (CL III)(54 IN) and DOLLARS CENTS	LF	33.000	84
	464	2013		RC PIPE (CL III)(60 IN) and DOLLARS CENTS	LF	447.000	85
	464	2014		RC PIPE (CL III)(66 IN) and DOLLARS CENTS	LF	150.000	86
	464	2027		RC PIPE (CL IV)(42 IN) and DOLLARS CENTS	LF	80.000	87

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	ITEM NO	DESC CODE	S.P. NO.				
	464	2028		RC PIPE (CL IV)(48 IN) and DOLLARS CENTS	LF	189.000	88
	464	2029		RC PIPE (CL IV)(54 IN) and DOLLARS CENTS	LF	20.000	89
	464	2030		RC PIPE (CL IV)(60 IN) and DOLLARS CENTS	LF	100.000	90
	464	2042		RC PIPE (CL V)(48 IN) and DOLLARS CENTS	LF	39.000	91
	464	2045		RC PIPE (CL V)(66 IN) and DOLLARS CENTS	LF	60.000	92
	465	2077	001	INLET (COMPL)(DROP)(TY 1) and DOLLARS CENTS	EA	10.000	93
	465	2078	001	INLET (COMPL)(DROP)(TY 1-C) and DOLLARS CENTS	EA	7.000	94
	465	2080	001	INLET (COMPL)(DROP)(TY 3) and DOLLARS CENTS	EA	11.000	95
	465	2090	001	MANH (COMPL)(JUNCT BOX)(TY 2) and DOLLARS CENTS	EA	3.000	96
	465	2091	001	MANH (COMPL)(JUNCT BOX)(SPL) and DOLLARS CENTS	EA	3.000	97
	465	2092	001	MANH (COMPL)(TY 1) and DOLLARS CENTS	EA	2.000	98

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	ITEM NO	DESC CODE	S.P. NO.				
	465	2093	001	MANH (COMPL)(TY 1-C) and DOLLARS CENTS	EA	1.000	99
	466	2009		WINGWALL (SW-0)(HW=7 FT) and DOLLARS CENTS	EA	1.000	100
	466	2023		WINGWALL (FW-0)(HW=7 FT) and DOLLARS CENTS	EA	2.000	101
	466	2027		WINGWALL (FW-0)(HW=11 FT) and DOLLARS CENTS	EA	2.000	102
	466	2036		WINGWALL (FW-S)(HW=6 FT) and DOLLARS CENTS	EA	1.000	103
	466	2047		WINGWALL (PW)(HW=3 FT) and DOLLARS CENTS	EA	1.000	104
	466	2050		WINGWALL (PW)(HW=6 FT) and DOLLARS CENTS	EA	1.000	105
	466	2051		WINGWALL (PW)(HW=7 FT) and DOLLARS CENTS	EA	1.000	106
	466	2052		WINGWALL (PW)(HW=8 FT) and DOLLARS CENTS	EA	2.000	107
	466	2057		WINGWALL (PW)(HW=13 FT) and DOLLARS CENTS	EA	2.000	108
	466	2070		HEADWALL (CH-FW-0)(DIA= 42 IN) and DOLLARS CENTS	EA	1.000	109

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	466	2071		HEADWALL (CH-FW-0)(DIA= 48 IN) DOLLARS and CENTS	EA	1.000	110
	466	2073		HEADWALL (CH-FW-0)(DIA= 60 IN) DOLLARS and CENTS	EA	1.000	111
	466	2084		HEADWALL (CH-FW-15)(DIA= 36 IN) DOLLARS and CENTS	EA	1.000	112
	466	2085		HEADWALL (CH-FW-15)(DIA= 42 IN) DOLLARS and CENTS	EA	1.000	113
	466	2131		HEADWALL (CH-PW-0)(DIA= 48 IN) DOLLARS and CENTS	EA	7.000	114
	466	2132		HEADWALL (CH-PW-0)(DIA= 54 IN) DOLLARS and CENTS	EA	1.000	115
	466	2133		HEADWALL (CH-PW-0)(DIA= 60 IN) DOLLARS and CENTS	EA	2.000	116
	466	2134		HEADWALL (CH-PW-0)(DIA= 66 IN) DOLLARS and CENTS	EA	1.000	117
	466	2144		HEADWALL (CH-PW-S)(DIA= 36 IN) DOLLARS and CENTS	EA	1.000	118
	466	2145		HEADWALL (CH-PW-S)(DIA= 42 IN) DOLLARS and CENTS	EA	1.000	119
	466	2146		HEADWALL (CH-PW-S)(DIA= 48 IN) DOLLARS and CENTS	EA	2.000	120

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	ITEM NO	DESC CODE	S.P. NO.				
	466	2147		HEADWALL (CH-PW-S)(DIA= 54 IN) DOLLARS and CENTS	EA	1.000	121
	466	2148		HEADWALL (CH-PW-S)(DIA= 60 IN) DOLLARS and CENTS	EA	1.000	122
	466	2149		HEADWALL (CH-PW-S)(DIA= 66 IN) DOLLARS and CENTS	EA	1.000	123
	467	2182		SET (TY I)(S= 5 FT)(HW= 3 FT)(6:1)(P) DOLLARS and CENTS	EA	1.000	124
	467	2208		SET (TY II)(15 IN)(RCP)(3:1)(C) DOLLARS and CENTS	EA	2.000	125
	467	2211		SET (TY II)(24 IN)(RCP)(3:1)(C) DOLLARS and CENTS	EA	1.000	126
	467	2213		SET (TY II)(30 IN)(RCP)(3:1)(C) DOLLARS and CENTS	EA	2.000	127
	467	2217		SET (TY II)(48 IN)(RCP)(3:1)(C) DOLLARS and CENTS	EA	1.000	128
	467	2224		SET (TY II)(24 IN)(RCP)(4:1)(C) DOLLARS and CENTS	EA	6.000	129
	467	2227		SET (TY II)(36 IN)(RCP)(4:1)(C) DOLLARS and CENTS	EA	2.000	130
	467	2228		SET (TY II)(42 IN)(RCP)(4:1)(C) DOLLARS and CENTS	EA	1.000	131

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	467	2234		SET (TY II)(18 IN)(RCP)(6:1)(C) and DOLLARS CENTS	EA	4.000	132
	467	2236		SET (TY II)(24 IN)(RCP)(6:1)(C) and DOLLARS CENTS	EA	2.000	133
	467	2286		SET (TY II)(18 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	104.000	134
	467	2288		SET (TY II)(24 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	11.000	135
	476	2022		JACK BOR OR TUN PIPE(24 IN)(RC)(CL V) and DOLLARS CENTS	LF	109.000	136
	496	2010		REMOV STR (BRIDGE 100-499 FT LENGTH) and DOLLARS CENTS	EA	2.000	137
	500	2001	005	MOBILIZATION and DOLLARS CENTS	LS	1.000	138
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING and DOLLARS CENTS	MO	28.000	139
	506	2001	012	ROCK FILTER DAMS (INSTALL) (TY 1) and DOLLARS CENTS	LF	2,020.000	140
	506	2002	012	ROCK FILTER DAMS (INSTALL) (TY 2) and DOLLARS CENTS	LF	500.000	141

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	ITEM NO	DESC CODE	S.P. NO.				
	506	2009	012	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	2,520.000	142
	506	2016	012	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	2,184.000	143
	506	2017	012	CONSTRUCTION EXITS (INSTALL) (TY 2) DOLLARS and CENTS	SY	156.000	144
	506	2019	012	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	2,340.000	145
	506	2022	012	EARTHWORK (ERSN & SEDM CONT, IN VEH) DOLLARS and CENTS	CY	200.000	146
	506	2034	012	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	26,460.000	147
	508	2002		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	15,845.000	148
	512	2008	001	PORT CTB (FUR & INST)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	1,820.000	149
	512	2009	001	PORT CTB (FUR & INST)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	240.000	150
	512	2026	001	PORT CTB (MOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	3,660.000	151
	512	2027	001	PORT CTB (MOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	520.000	152

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	ITEM NO	DESC CODE	S.P. NO.				
	512	2035	001	PORT CTB (STKPL)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	1,820.000	153
	512	2036	001	PORT CTB (STKPL)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	240.000	154
	512	2048	001	PORT CTB (FUR & INST)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	7,290.000	155
	512	2050	001	PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	11,850.000	156
	512	2051	001	PORT CTB (STOCKPILE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	7,290.000	157
	530	2010		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	1,208.000	158
	530	2011		DRIVEWAYS (ACP) DOLLARS and CENTS	SY	3,683.000	159
	530	2023		DRIVEWAYS AND TURNOUTS (ACP) DOLLARS and CENTS	SY	3,298.000	160
	533	2001		SHOULDER TEXTURING (MILLED) DOLLARS and CENTS	STA	1,987.000	161
	538	2001		RIGHT OF WAY MARKERS DOLLARS and CENTS	EA	170.000	162
	540	2001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	2,575.000	163

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	ITEM NO	DESC CODE	S.P. NO.				
	540	2005		TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	3.000	164
	540	2011		MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	12.000	165
	540	2012		MTL BEAM GD FEN TRANS (TL2) DOLLARS and CENTS	EA	3.000	166
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	3,180.000	167
	542	2002		REMOVING TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	4.000	168
	542	2003		RM MTL BM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	6.000	169
	544	2001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	14.000	170
	544	2003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	6.000	171
	545	2001		CRASH CUSH ATTEN (INSTL) DOLLARS and CENTS	EA	11.000	172
	545	2002		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	14.000	173
	545	2003		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	11.000	174

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	552	2003		WIRE FENCE (TY C) DOLLARS and CENTS	LF	1,000.000	175
	552	2007		GATE (TY 3) DOLLARS and CENTS	EA	2.000	176
	556	2008	003	PIPE UNDERDRAINS (TY 8) (6") DOLLARS and CENTS	LF	5,000.000	177
	560	2006	001	MAILBOX INSTALL-S (RR-POST) TY 4 FND- TB DOLLARS and CENTS	EA	12.000	178
	610	2041	006	INS RD IL AM (TY SA) 50T-12-12(4 KW)S DOLLARS and CENTS	EA	4.000	179
	618	2018		CONDT (PVC) (SCHD 40) (2") DOLLARS and CENTS	LF	1,014.000	180
	618	2019		CONDT (PVC) (SCHD 40) (2") (BORE) DOLLARS and CENTS	LF	160.000	181
	620	2011	001	ELEC CONDR (NO. 8) BARE DOLLARS and CENTS	LF	1,266.000	182
	620	2012	001	ELEC CONDR (NO. 8) INSULATED DOLLARS and CENTS	LF	2,532.000	183
	624	2012		GROUND BOX TY C (162911) W/APRON DOLLARS and CENTS	EA	4.000	184

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	628	2018		ELC SRV TY A 240/480 060 (NS)SS(E)SP(U) DOLLARS and CENTS	EA	1.000	185
	636	2001	014	ALUMINUM SIGNS (TY A) DOLLARS and CENTS	SF	11.000	186
	636	2002	014	ALUMINUM SIGNS (TY G) DOLLARS and CENTS	SF	462.000	187
	644	2004		INS SM RD SN SUP&AM TY 10BWG(1) SA(T) DOLLARS and CENTS	EA	13.000	188
	644	2027		INS SM RD SN SUP&AM TY S80(1) SA(U) DOLLARS and CENTS	EA	7.000	189
	644	2053		INS SM RD SN SUP&AM TY TWT(1) WA(P) DOLLARS and CENTS	EA	146.000	190
	644	2054		INS SM RD SN SUP&AM TY TWT(1) WA(T) DOLLARS and CENTS	EA	131.000	191
	647	2001		INSTALL LRSS (STRUCT STEEL) DOLLARS and CENTS	LB	1,801.000	192
	658	2246		INSTL DEL ASSM (D-SW)SZ 1(RCR)GND DOLLARS and CENTS	EA	34.000	193
	658	2249		INSTL DEL ASSM (D-SW)SZ 1(RCR)GF2 DOLLARS and CENTS	EA	12.000	194
	658	2258		INSTL DEL ASSM (D-SW)SZ (TYC)CTB DOLLARS and CENTS	EA	13.000	195

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	658	2277		INSTL DEL ASSM (D-SY)SZ (TYC)CTB DOLLARS and CENTS	EA	12.000	196
	658	2298		INSTL DEL ASSM (D-DW)SZ 1(RCR)GF2 DOLLARS and CENTS	EA	9.000	197
	658	2306		INSTL DEL ASSM (D-DY)SZ 1(RCR)GND DOLLARS and CENTS	EA	493.000	198
	658	2319		INSTL OM ASSM (OM-2Z)(RCR)WP DOLLARS and CENTS	EA	165.000	199
	662	2004		WK ZN PAV MRK NON-REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	9,080.000	200
	662	2016		WK ZN PAV MRK NON-REMOV (W) 24" (SLD) DOLLARS and CENTS	LF	70.000	201
	662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	10,570.000	202
	662	2048		WK ZN PAV MRK REMOV (JIGGLE) TY Y DOLLARS and CENTS	EA	3.000	203
	662	2064		WK ZN PAV MRK REMOV (W) 4" (BRK) DOLLARS and CENTS	LF	5,925.000	204
	662	2065		WK ZN PAV MRK REMOV (W) 4" (DOT) DOLLARS and CENTS	LF	288.000	205
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	207,773.000	206

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	662	2075		WK ZN PAV MRK REMOV (W) 8" (SLD) DOLLARS and CENTS	LF	8,030.000	207
	662	2077		WK ZN PAV MRK REMOV (W) 12" (SLD) DOLLARS and CENTS	LF	713.000	208
	662	2079		WK ZN PAV MRK REMOV (W) 24" (SLD) DOLLARS and CENTS	LF	468.000	209
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	238,100.000	210
	666	2053		REFL PAV MRK TY I (W) (ARROW) (090MIL) DOLLARS and CENTS	EA	23.000	211
	666	2095		REFL PAV MRK TY I (W) (WORD) (090MIL) DOLLARS and CENTS	EA	2.000	212
	666	2160		REF PAV MRK TY II (W) (ARROW) DOLLARS and CENTS	EA	2.000	213
	666	2173		REF PAV MRK TY II (W) (WORD) DOLLARS and CENTS	EA	2.000	214
	672	2017	034	REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	1,560.000	215
	677	2001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	16,396.000	216
	677	2010		ELIM EXT PAV MRK & MRKS (ENTR GORE) DOLLARS and CENTS	EA	1.000	217

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	677	2011		ELIM EXT PAV MRK & MRKS (EXIT GORE) DOLLARS and CENTS	EA	1.000	218
	678	2001		PAV SURF PREP FOR MRK (4") DOLLARS and CENTS	LF	277,055.000	219
	678	2003		PAV SURF PREP FOR MRK (8") DOLLARS and CENTS	LF	37,885.000	220
	678	2004		PAV SURF PREP FOR MRK (12") DOLLARS and CENTS	LF	776.000	221
	678	2006		PAV SURF PREP FOR MRK (24") DOLLARS and CENTS	LF	1,744.000	222
	678	2007		PAV SURF PREP FOR MRK (ARROW) DOLLARS and CENTS	EA	23.000	223
	678	2018		PAV SURF PREP FOR MRK (WORD) DOLLARS and CENTS	EA	2.000	224
	5049	2002		BIODGRD EROSION CONTROL LOGS (18" DIA) DOLLARS and CENTS	LF	1,015.000	225
	6110	2001	021	REF PAV MRK TY I (W)(4")(BRK)(90 MIL) DOLLARS and CENTS	LF	29,280.000	226
	6110	2002	021	REF PAV MRK TY I (W)(4")(SLD)(90 MIL) DOLLARS and CENTS	LF	124,643.000	227

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6110	2003	021	REF PAV MRK TY I (W)(8")(SLD)(90 MIL) DOLLARS and CENTS	LF	37,885.000	228
	6110	2004	021	REF PAV MRK TY I (W)(12")(SLD)(90 MIL) DOLLARS and CENTS	LF	476.000	229
	6110	2005	021	REF PAV MRK TY I (W)(24")(SLD)(90 MIL) DOLLARS and CENTS	LF	1,744.000	230
	6110	2006	021	REF PAV MRK TY I (Y)(4")(BRK)(90 MIL) DOLLARS and CENTS	LF	640.000	231
	6110	2007	021	REF PAV MRK TY I (Y)(4")(SLD)(90 MIL) DOLLARS and CENTS	LF	121,002.000	232
	6110	2044	021	REF PAV MRK TY I (W)(12")(LNDP)(90 MIL) DOLLARS and CENTS	LF	300.000	233
	6110	2109	021	REF PAV MRK SEALER (4.5") DOLLARS and CENTS	LF	132,622.000	234
	6110	2111	021	REF PAV MRK SEALER (8") DOLLARS and CENTS	LF	19,608.000	235
	6110	2112	021	REF PAV MRK SEALER (12") DOLLARS and CENTS	LF	558.000	236
	6110	2113	021	REF PAV MRK SEALER (24") DOLLARS and CENTS	LF	807.000	237
	6834	2001		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	DAY	142.000	238

**** Specification Data ****

Basis of Estimate

Item	Description	Rate	Unit
166	Fert (16-8-8)	600 lb/acre**	Ton
168	Vegetative Watering	750,000 gal/acre	MG
260	Lime (Hydrated, Commercial Or Quicklime)(Slry)	150 lb/CY	Ton
275	Cement (Subgr.)(PI<20)	75 lb/CY	Ton
275	Cement (New Base)(Road-Mixed)	75 lb/CY	Ton
310	Asph Mat'l(MC-30 or AEP)(Flex Base)	0.3 gal/SY	Gal
310	Asph Mat'l (MC-30 Or AEP)(Subgr)(Priming)	0.2 gal/SY*	Gal
341	Hot Mix (All Types)	115 lb/SY/in	Ton

* Based On 50/50 Mixture Of Emulsified Asphalt And Water.

** Non-Pay, for Contractor's Information Only.

Compaction Requirements for Base Courses:

(Percent Of Density As Determined By Compaction Ratio Test TEX-113-E)

ITEM	MATERIAL	COURSE	MIN DENSITY
247	Foundation Course	All	95%
247	Flex Base	All	100%
275	Cement Treat.	All	95%

Surface Treatment Data:

One Course Surface Treatment (Flexible Base)

Asph Type CRS-1P; Rate- 0.45 gal/SY

Aggr Type B Grade 4; Rate- 1 CY/120 SY

Seal Coat

Asph Type AC-15P or AC-20-XP

Rate First Course- 0.45 gal/SY

Second Course- 0.25 gal/SY

Aggr Type PB

First Course- Grade 3; Rate- 1 CY/95 SY

Second Course- Grade 4; Rate- 1 CY/125 SY

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Special Notes:

Existing storm sewers and utilities are shown from the best available information. Verify the location of all underground facilities prior to starting work by calling DIGTESS.

A color set of Subsurface Utility Engineering sheets (sheets 355-462B) are available for review at the Decatur Area Office; 1710 W US 380; Decatur, TX.

For dimensions of R.O.W. not shown on the plans, see R.O.W. map on file at the TxDOT District Office.

The Contractor's attention is directed to the following list of temporary easements and their expiration dates:

<u>Parcel Numbers</u>	<u>Expiration Date</u>
1, 3A, 5, 6, 8, 9, 10, 11, 12, 15, 16, 17, 20, 21, 22, 25E and two unknowns	May 2012

Complete all work in these easement areas prior to the expiration dates shown. In any event that work is done after these expiration dates, all costs for extending these dates shall be borne by the Contractor.

Contractor is responsible for stabilizing and seeding additional areas outside the designated temporary or permanent easements at their expense.

Remove all existing fences within the right of way and remove and replace all existing fences within easements where such fences conflict with the work. Temporary fencing will be paid at locations identified in the field by the Engineer. Protect the remaining fence from damage due to slacking. Erect temporary fencing in the easement areas as necessary to secure the property. Provide at least one week notice to the property owner prior to removing or moving the fence. Restore permanent fencing to an equal or better condition.

Mail box manipulation made necessary because of construction shall be done in accordance with Item 560, except that this work will not be paid for directly but will be considered subsidiary to the various bid items.

Provide all-weather surface for temporary ingress and egress to adjacent property, as directed. Materials, labor, equipment and incidentals necessary to provide temporary ingress and egress will not be paid for directly, but will be subsidiary to the various bid items.

In those instances where necessary, the governing slopes indicated herein may be varied from the limits shown, to the extent approved.

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On superelevated curves the shoulders shall have the same cross-slope as the pavement, unless otherwise indicated.

On superelevated curves where the grade line is in a sag or on flat grades, overlay the shoulders to the extent necessary to prevent trapping of water on the high side.

All driveway openings will be determined by the Engineer and shall conform with Texas Department of Transportation "Regulations for Access Driveways to State Highways" adopted September 1953, and revised June 2004.

Locations and lengths of all private entrances are approximate only. The actual locations, lengths, lines, and grades are to be established in the field.

Remove the grass from the crown of shoulders or pavement edges by blading or other approved methods. Payment for this work will not be made directly but shall be considered subsidiary to the various items of the contract.

Locations shown for drainage structures refer to the control points of structures as follows:

- 1) Manholes, Inlets, and Junction Boxes -- Locations are at the centroid of the structure; when two structure types are specified, location is at the centroid of the top structure. Bottom structure may be positioned as required to align with top structure, storm drain pipes and other adjacent structures.
- 2) Street Inlets -- Locations are at the face of curb at a distance of $L/2$ from the end of the inlet.
- 3) Headwalls -- Locations are to the outside face of the headwall at the centerline of the pipe or box structure. For pipe headwalls with Type "P" or "C" safety end treatment, locations are on the centerline of the pipe structure at the limit of payment for pipe.

Plugging of pipes or culverts will not be paid for directly, but shall be considered subsidiary to the various bid items, unless otherwise shown on the plans.

Provide temporary drain openings at all low points or other drainage structures, as required, at the Contractor's expense.

Remove any obstructions to existing drainage due to the contractor's operations, as required, at the Contractor's expense.

Install all required concrete riprap flumes immediately following the construction of ditches in which they are to be placed. In addition, apply all erosion control measures as shown on the

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plans or as directed, immediately following construction of channels to their required line, grade and section.

Item 5. Control of the Work

When supplementary bridge plans, shop drawings, shop details, erection drawings, working drawings, forming plans or other drawings, are required, the drawings shall be prepared and submitted on sheets 8 1/2 by 11 inches, 17 by 22 inches, or full size drawings reduced to half scale if completely legible. If, in the opinion of the Engineer, the drawings are not completely legible, they shall be prepared and submitted on sheets 22 by 34 inches, with a one and one-half inch left margin, and a one-half inch top, right, and bottom margin.

All sheets submitted shall have a title in the lower right hand corner. The title shall include the sheet index data shown on the lower right corner of the project plans, name of the structure or element or stream, sheet numbering for the shop drawings, name of the fabricator and the name of the Contractor.

Prior to contract letting, bidders may obtain a free computer diskette or a computerized transfer of files (from the Engineer's office) that contains the earthwork information. If copies of the actual cross-sections are requested, in addition to, or instead of, the diskette, they will be available at the Engineers office for borrowing by copying companies for the purpose of making copies for the bidder, at the bidder's expense.

Item 7. Legal Relations and Responsibilities

Do not initiate activities in a project specific location (PSL) associated with a U.S. Army Corps of Engineers (USACE) permit 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" as defined here means materials are delivered to or from the PSL. The permit area includes all waters of the U.S. or associated wetlands affected by activities associated with this project. Special restrictions may be required for such work. The contractor shall be responsible for any and all consultations with the USACE regarding activities, including project specific locations (PSLs) that have not been previously evaluated by the USACE. Provide the Department with a copy of all consultation(s) or approval(s) from the USACE prior to initiating activities.

The Contractor may proceed with activities in PSLs that do not affect a USACE permit area if a self determination has been made that the PSL is non-jurisdictional or proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. The contractor is solely responsible for documenting any determination(s) that their activities do not affect a USACE permit area. Maintain copies of their determination(s) for review by the Department or any regulatory agency.

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Document and coordinate with the USACE, if required, prior to any excavation hauled from or embankment hauled into a USACE permit area by either (1) or (2) below.

- (1) Restricted Use of Materials for Previously Evaluated Permit Areas.** Document both the project specific location (PSL) and its authorization. Maintain copies for review by the Department or any regulatory agency. 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 Item 110 is used for permanent or temporary fill (Item 132, Embankment) within a USACE permit area;
 - b. Suitable embankment (Item 132) from within the USACE permit area is used as fill within a USACE evaluated area; and,
 - c. Unsuitable excavation or excess excavation [“Waste”] (Item 110) that is disposed of at a location approved by the Engineer 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 or approval(s) prior to initiating any activities for an 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. Item 132, Embankment, used for temporary or permanent fill within a USACE permit area; and,
 - b. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

The total area disturbed for this project is 220 acres. The disturbed area in this project, all project locations in the Contract, and the 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 required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed 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 and to the local government that operates a separate storm sewer system.

Item 8. Prosecution and Progress

Working days will be computed and charged in accordance with Article 8.3.A.1 Five-Day Workweek.

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Item 100. Preparing Right of Way

Measurement for this item shall be along the centerline of the project with the limits of measurements as shown on the plans.

Removal of existing concrete pavement shall be in accordance with Item 104 except that this work will not be paid for directly, but will be considered subsidiary to Item 100.

Trees in a grove will be paid for as part of normal Preparing Right of Way. Every effort should be made to save trees outside of Clear Zone or behind proposed locations of Metal Beam Guard Fence.

Item 104. Removing Concrete

When associated with a structure to be removed, removal of riprap as required, approach slabs and shoulder drains are to be included in the unit price bid for Item 496, 'Removing Structures'.

Item 110. Excavation

Review proposed waste sites to determine if any site is located in a "Base Floodplain" or "Floodway" as defined by the Federal Emergency Management Agency (FEMA). Wise County FEMA Manager is Tom Goode.

If waste material from this project is placed in a base floodplain as defined by FEMA, a permit will have to be obtained from the local community responsible for enforcing National Flood Insurance Program (NFIP) regulations. The Contractor is responsible for ensuring that the owner of the property receiving the waste has obtained the necessary permit.

Items 110, 112, and 132. Excavation, Subgrade Widening, and Embankment

Sulfate-laden subgrade material that is to be treated with either lime or cement, including material up to one foot outside the proposed treatment limits, is susceptible to sulfate heave.

Moderate sulfate levels are those defined from 3,001 PPM to 7,000 PPM. Treat these soils with lime at the full 150 lb/CY rate or cement at the full 75 lb/CY rate. Do not split the rates to ensure complete reaction and mitigation of sulfate heaves. Allow the mixture to mellow for 7 days to provide for complete reaction.

High sulfate levels are not allowed within the treatment and surrounding areas.

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Treat moderate sulfate or excavate high sulfate areas as identified and other subgrade areas that may be identified during construction as having moderate to high sulfate concentrations to a depth of one foot below and laterally to one foot outside the proposed treatment limits. Treatment of the moderate level material shall be paid for under Item 260 or Item 275. Removal of the high level material shall be measured and paid for in accordance with Item 110 and replacement with suitable material shall be measured and paid for in accordance with Item 132.

Any excavated sulfate-laden material will be acceptable for use in fill areas. Do not place within previously specified section boundaries of subgrade to be treated with either lime or cement.

Test soils for soluble sulfates in accordance with Test Method TEX-145 and TEX-146-E.

Off-Site Borrow Sources. In addition to meeting pertinent specification requirements, test off-site borrow sources for sulfate content. Test soils for soluble sulfates in accordance with Test Method TEX 145 and TEX-146-E and provide documentation that supports compliance with previously stated requirements. The Engineer will perform additional testing for sulfates of this material upon delivery to the project. Only material that is placed within one foot vertically or laterally of subgrade treatment will require testing for sulfates. Remove and replace failing material (sulfate concentrations >7,000 PPM by dry weight).

No compensation for embankment or excavation will be considered after earthwork has begun. Cal DIG TESS before any excavation begins.

Backfill all exposed edges within the clear zone at the end of each work day to bring them to Edge Condition I, as defined in the standards. If this is not possible, provide delineation and signage as required.

Item 132. Embankment

Do not provide B embankment material with a Plasticity Index (PI) higher than 35.

6,000 CY of rock embankment will be required between stations 923+00 and 927+00. This will be paid for as EMBANK (FINAL)(ORD COMP)(TY B).

When embankment is placed as a bridge header bank, test each lift for compliance with density requirements, near the center of each travel lane at the following locations:

1. At the “beginning of bridge” or “end of bridge” station (if abutment is on retaining wall, location may be adjusted by not more than 5 feet.)
2. At 25-foot intervals for a distance of 150 feet in advance of the “beginning of bridge” station.
3. At 25-foot intervals for a distance of 150 feet after the “end of bridge” station.

Density tests shall be conducted by a department-certified independent testing laboratory. Results of tests shall be furnished to TxDOT within 24 hours after testing, and all test reports shall be signed and sealed by a Professional Engineer in the State of Texas. Areas which do not meet minimum density requirements shall be removed, re-compacted, and re-tested for compliance at the contractor’s entire expense. Testing and reporting of test results will not be paid for directly, but will be considered subsidiary to this item.

Construct embankments for bridge header banks to final subgrade elevation prior to excavation for abutment caps and placement of foundation course at approach slabs. Payment for structural excavation and/or excavation for placement of foundation course will not be paid for directly, but will be considered subsidiary to the pertinent bid items.

At all locations where guardrail is shown to flare, widen the embankment as necessary to accommodate the guardrail.

Item 134. Backfilling Pavement Edges

Type A Backfill shall be loamy material, free from objectionable material, with a high resistance to erosion, and able to support plant growth.

Item 161. Compost

Place approximately 4” of compost manufactured topsoil (CMT) on all cut and fill slopes (except drainage channels where flexible channel liners are indicated), at other locations shown in the plans, and as directed.

Where “pre-blended” CMT is specified, amend suitable soil material, as determined by the Engineer, with 25% compost, by volume, to produce the compost manufactured topsoil. Place the compost manufactured topsoil in a loose layer approximately 4” thick, as shown in the plans.

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Item 164. Seeding for Erosion Control

Apply seeding required between December 1 and January 31 using seed types and mixtures as shown in Item 164.2.A, Table 3. If, in the opinion of the Engineer, this does not provide an effective vegetative cover, apply "straw or hay mulch" as specified in Item 164.3.E as soon as possible. After February 1 apply warm season seeding in order to establish a permanent protective vegetative cover.

Verify seeding application with the Engineer prior to seeding.

Item 166. Fertilizer

Areas of CMT will not require fertilizer.

Item 168. Vegetative Watering

Furnish and install an approved rain gauge at the project site, as directed. Furnishing and installation of the rain gauge will not be paid for directly, but will be considered subsidiary to Item 168.

Apply vegetative watering for an establishment period of thirteen weeks following application of seed or installation of sod, at the watering rate determined by the Engineer, and according to the following schedule or as directed:

Apply vegetative watering twice per week for a period of four weeks following application of seed or installation of sod, regardless of calendar month, at a rate of one-half the weekly application rate determined.

For the remainder of the establishment period, apply vegetative watering once per week during the months of January through June or September through December, at the weekly application rate determined. Water twice per week during the months of July and August, at a rate of one-half the weekly application rate determined.

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Item 247. Flexible Base

(TY A, GR 4) Furnish crushed stone, gravel, or crushed gravel aggregate conforming to the following requirements:

Gradation:

<u>Retained on Sieve Size</u>	<u>Percent (%) by Weight</u>
1-3/4 in.	0 – 5
7/8 in.	5 – 35
No. 4	40 – 75
No. 40	65 – 85

Plasticity Index (PI)	12 max., 4 min.
Liquid Limit	45 max.
Wet Ball Mill	50 max.
Wet Ball Mill, %	20 max.
Increase Passing the No. 40	

Place material in two or more equal lifts unless otherwise directed.

Do not add field sand to modify the final material to meet the requirements.

Build and maintain a 5,000 CY stockpile of approved material before and during hauling operations.

(TY E, GR 4) Use this item for the foundation course under the approach slabs and other locations shown on the plans. Furnish aggregate conforming to the following requirements:

Gradation:

<u>Retained on Sieve Size</u>	<u>Percent (%) by Weight</u>
1-3/4 in.	0 – 5
No. 4	30 – 75
No. 40	65 – 85

Plasticity Index (PI)	15 max.
Liquid Limit	45 max.
Wet Ball Mill	50 max.
Wet Ball Mill, %	20 max.
Increase Passing the No. 40	

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Place material in two or more equal lifts unless otherwise directed.

Do not add field sand to modify the final material to meet the requirements.

Cement treat in accordance with Item 275.

Item 260. Lime Treatment (Road-Mixed)

Apply lime by the “slurry placement” method. Allow the mixture to mellow for a minimum of 4 days after initial mixing.

Except as noted below, treat the raw subgrade to a depth of 8”.

Treat the raw subgrade with lime to a depth of 18” for:

- Fills equal to or greater than 18” – soil PI > 39
- Fills <18” – soil PI >29
- All cuts – soil PI > 29
- Any location directed by the Engineer

Item 275. Cement Treatment (Road-Mixed)

Treat base or subgrade material with a maximum 4% cement by weight. The 7-day compressive strength of treated material shall be 250 psi.

Item 301. Asphalt Antistripping Agent

Furnish a liquid antistripping agent unless directed.

Item 305. Salvaging, Hauling, and Stockpiling Reclaimable Asphalt Concrete

Stockpile all rap salvaged and not used for this project at the TxDOT Maintenance Yard; 1710 W. US 380; Decatur, TX, or as directed.

Build stockpiles between 10 and 15 feet in height with layers approximately 2 feet in depth.

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Item 310. Prime Coat

Provide an MC-30 or AEP for this Item. Apply AEP as specified in Item 314.

Item 314. Emulsified Asphalt Treatment

Provide EAP for this Item. Use between a 30% - 50% asphalt mixture with heated water added at the plant.

Item 316. Surface Treatments

Asphalt storage tanks may be used.

Remove vegetation and blade pavement edges as directed.

Furnish seal coat meeting a Surface Aggregate Classification rating of "B".

Item 341. Dense-Graded Hot Mix Asphalt (QC/QA)

Use of RAP is allowed only for base and underlayment courses on this project.

RAP aggregate must meet the requirements of Table 1.

Perform Tex 236 - F tests on RAP.

Provide a PG 70-22 asphalt for the surface course.

Provide a PG 70-22 asphalt for the level-up course.

Provide a PG 64-22 asphalt for the base course.

Provide a PG 64-22 asphalt for the concrete underlayment course.

Furnish a CSS-1P for the tack coat on this project.

From Table 7:

The tensile strength is waived for this project.

Use the boil test, test method TEX-530-C, and provide only mixes that produce zero percent (0%) stripping for design verification and during production.

The requirements shown in Table 8 are waived for this project.

Place mixture when the roadway surface temperature is equal to or higher than the temperatures listed in Table 1 unless otherwise approved or shown on the plans. Measure the roadway surface temperature with a handheld infrared thermometer. The Engineer may allow mixture placement to begin prior to the roadway surface reaching the required temperature requirements if conditions are such that the roadway surface will reach the required temperature within 2 hrs. of

beginning placement operations. Unless otherwise shown on the plans, place mixtures only when weather conditions and moisture conditions of the roadway surface are suitable in the opinion of the Engineer.

**Table 1
Minimum Pavement Surface Temperatures**

High Temperature Binder Grade	Minimum Pavement Surface Temperatures in Degrees Fahrenheit	
	Subsurface Layers or Night Paving Operations	Surface Layers Placed in Daylight Operations
PG 64	45	50
PG 70	55 ¹	60 ¹
PG 76	60 ¹	60 ¹
PG 76	65 ¹	70 ¹
Asphalt Rubber (A-R)	65 ¹	70 ¹

Note 1: Contractors may pave at temperatures 10°F lower than the values shown in Table 1 when utilizing a paving process or equipment that eliminates thermal segregation. In which cases, the contractor must use either an infrared bar attached to the paver, or a hand held thermal camera, or a hand held infrared thermometer operated in accordance with Test Method 244-F to demonstrate to the satisfaction of the engineer that the uncompacted mat has no more than 10°F of thermal segregation.

Item 356. Fabric

Provide a Petromat fabric under Ty 'C' HMAc.

Furnish a PG 64-22 asphalt.

Item 360. Concrete Pavement

For pavement concrete using a blend of manufactured and natural sand for the fine aggregate, blend at the aggregate source only.

When required by typical sections, the 2” sand cushion will be subsidiary to the bid item.

All transverse joints between phases of construction will include multiple-piece tie bars for connection to future paving. Tie bar manufacturer will be approved by the Engineer.

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Item 400. Cut and Restore Existing Pavement (HMAC)

500 SY Cut and Restore Existing Pavement is to be used at locations directed by the engineer to repair failures in the existing HMAC as needed.

Item 420. Concrete Structures

Provide weepholes at bridge ends in the wingwalls as directed.

Concrete for "Interior Bents" will be paid for as a plan quantity.

Item 421. Hydraulic Cement Concrete

The strength testing equipment for concrete will be capable of producing an electronic printout of the test results.

Equip each tank with a recording thermometer with its sensing element in the storage water in accordance to TEX-447-A, Making and Curing Test Specimens. Recording thermometers will not be paid for directly, but will be subsidiary to pertinent Items.

Air entrainment requirements are waived for all classes of concrete except all Class S and all Class P Concrete.

Concrete will not be rejected for low air content. Adjustment to the dosage of air entrainment will be as directed or allowed by the Engineer.

Include the approved mix design number on each delivery ticket.

Contractor personnel performing job-control (QC) testing on concrete must be ACI certified. Provide a copy of all personnel certification papers to the Engineer at the preconstruction meeting. The Engineer may require the Contractor's testers to provide the certification papers upon arrival and before testing at the job site. Furnish a hard copy of all testing equipment calibration reports at the preconstruction meeting when non-TxDOT equipment is used to test concrete. Furnish updated reports as equipment is calibrated through the project contract. The calibration frequency will match TxDOT's and will apply for each piece of equipment as follows:

- Slump Cone - Annual
- Air Meter - Every 3 months
- Compression Tester - Annual
- Beam breaker - Annual

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The compression testing equipment for concrete will produce an electronic record of the test results.

The Engineer may allow the use of local commercial laboratories under contract to provide these services. The previous requirements are required from the Commercial Laboratory prior to any work being performed.

Item 427. Surface Finishes for Concrete

Unless otherwise noted, provide a surface area III with a rub finish on all bridges.

Item 428. Concrete Surface Treatment

Provide a Class II Surface Treatment (Type I) to the roadway slab and any other areas shown on the detail sheets.

Item 432. Riprap

Provide weepholes as directed.

The quantity for concrete riprap includes 100 CY to be placed as directed by the Engineer.

The quantities for riprap at the location indicated may be varied to the extent necessary to ensure proper functioning for the purpose intended.

Provide a toe-wall at all exposed edges of all protection stone riprap, unless otherwise directed.

The quantity for riprap mowing strips includes ~115 CY at MBGF and sign locations, and 85 CY to be placed as directed by the Engineer.

Item 440. Reinforcing Steel

Top and bottom layers of slab reinforcing steel shall be epoxy coated.

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Item 464. Reinforced Concrete Pipe

All bends and connections in pipe shall be prefabricated.

Item 466. Headwalls and Wingwalls

Do not use precast headwalls/wingwalls.

Item 496. Removing Structures

Removal of riprap as required, approach slabs and shoulder drains to be included in the unit price bid.

When required by the plans, partial or complete removal of a structure for staged construction shall be accomplished in a manner which does not cause damage to the remainder of the structure or its supporting members. The procedure for removal of superstructure or substructure shall be submitted to the engineer in writing or plan drawing for approval prior to implementation.

The structure to be removed has surface coatings which may contain hazardous materials. Provide for the safety and health of employees and abide by all OSHA standards and regulations.

Contact Greg Cedillo, P.E. of the Decatur Area Office @ (940) 626-3400, a minimum of three weeks prior to any bridge demolition

Item 502. Barricades, Signs, and Traffic Handling

Unless otherwise directed or shown on the plans, use drums as delineation devices for any nighttime lane closures and for any intermediate or long term lane closures.

Maintenance of roadways, not paid as "constructing detours", and designated in the traffic control plan to carry traffic, will be the responsibility of the Contractor and will be paid for by "Contractor Force Account or Agreed Unit Price".

Permanent signs may be installed when construction in an area is complete and they will not be in conflict with the traffic control plan for the remainder of the job.

Existing signs are to remain as long as they do not interfere with construction and they do not conflict with the traffic control plan.

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Any sign not detailed in the plans but called for in the layout shall be as shown in the current "Standard Highway Sign Designs for Texas".

When traffic is obstructed, arrange warning devices in accordance with arrangements indicated in the latest edition of the "Texas Manual on Uniform Traffic Control Devices".

Cover or remove any work zone signs when work or condition referenced is not occurring.

Item 504. Field Office and Laboratory

Furnish the following structures for this project:

Type	No.
Field Office and Lab (Ty. B)	1
Asphalt Lab (Ty. D)(Ignition Oven)	1*

* A field laboratory will be required if HMAC is from a source not tested by TxDOT MAT personnel.

Furnish a copier and facsimile meeting the requirements of DMS-10101, "Computer Equipment".

Furnish two wireless internet cards compatible with an HP Compaq 8230. Service providers available for this area are AT&T and Embarq.

Furnish the following for the Field Office structure:

<u>Item</u>	<u>No.</u>
Desktop Microcomputer	1
Printer	1
Internet Service	1

Integrated printer/copier/scanner/fax units will be permitted.

Provide DSL connection if available.

Provide a parking area at each structure adequate for six TxDOT vehicles.

Provide a fence that encloses all parking and field structures.

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Item 506. Temporary Erosion, Sedimentation, and Environmental Controls

Remove accumulated sediment and/or replace SW3P controls when the capacity has been reduced by 50% or when the depth of sediment at the control structure exceeds one foot.

Item 512. Portable Concrete Traffic Barrier

Furnish Low Profile Type 1 and Type 2 PCTB.

Furnish F-Shape Type 1 PCTB with a slotted joint design.

Provide the hardware assemblies to join the PCTB. Slotted joints require a welded tie bar assembly, as detailed on the PCTB standard detail sheet. Low Profile PCTB requires a 1¼" x 2" - 2" threaded rod, two (2) 1¼" hex nuts, and two (2) standard USS washers, grade 5, for each section.

Connection hardware will remain the property of the State upon completion of the project and will not be paid for directly, but considered subsidiary to Item 512. Deliver hardware to the location specified.

Delineate all PCTB in accordance with Barricade and Warning Sign Standard BC (6) Barrier delineation will not be paid for directly, but will be subsidiary to this Item.

Replace any traffic barrier which, in the opinion of the Engineer, is damaged by the traveling public to the extent it is no longer serviceable. The Contractor will be paid to remove and replace the traffic barrier damaged by the traveling public. Return damaged traffic barrier from the project.

Upon completion of the job the traffic barrier will be hauled to the intersection of US 81/287 and BU 81/287, south of Decatur, Texas.

Items 530 And 531. Intersections, Driveways and Turnouts, and Sidewalks

ACP driveways will be constructed and paid for as follows:

0530 2011 DRIVEWAYS (ACP) will be built according to the typical section shown for COMMERCIAL driveways on sheets 227 and 228.

0530 2023 DRIVEWAYS AND TURNOUTS (ACP) will be built according to the typical section shown for RESIDENTIAL driveways on sheet 227.

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Item 538. Right of Way Markers

Place right of way markers as directed.

Item 540. Metal Beam Guard Fence

The locations and lengths of guard fence shown on the plans are approximate. Actual lengths and locations are to be determined in the field.

The tops of timber posts shall be domed. Beveled tops will not be permitted for timber or steel posts.

When holes for timber posts are drilled below bottom of post elevation, backfill the excessive depth with an acceptable sand. The furnishing and installation of the sand backfill will not be paid for directly but shall be considered subsidiary to this Item.

When guardrail posts are placed in a finished surface, backfill the top 4 inches with an asphaltic material, domed to carry water away from the posts or as shown on the plans. The furnishing and installation of the asphaltic material backfill will not be paid for directly but shall be considered subsidiary to this Item.

MBGF will be lapped according to the direction of traffic. At changes in traffic direction the MBGF will be re-lapped accordingly. This work will be subsidiary to the item.

Item 542. Removing Metal Beam Guard Fence

Remove existing metal beam guard fence only when authorized. Undamaged MBGF will be hauled and stockpiled at Wise County Maintenance yard at 1710 W. US 380, Decatur, Texas.

Item 542. Guardrail End Treatments

Selection of manufacturer must be approved by the engineer.

Item 556. Pipe Underdrains

Install pipe underdrains at locations shown on the plans or as directed.

The unit price bid per linear foot of "pipe underdrain" shall include the cost of making connections to storm drain lines.

Furnish Type E filter material for this project conforming to the following gradation (Test TEX-200-F, Part 1):

Retained on Sq. Sieve	Percent by Weight
1/2 in.	0
3/8 in.	0 - 2
No. 4	40 - 85
No. 10	95 - 100

Item 585. Ride Quality for Pavement Surfaces

Use Surface Test Type A to evaluate ride quality of asphalt surfaced travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

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

Item 644. Small Roadside Signs

Use the following sign anchors, or as approved by the Engineer.

Wedge Anchors- Pos-Loc

Slip- Southern Plains Slipbase Housing

Item 6834. Portable Changeable Message Signs

All portable changeable message signs and arrow panels are to be provided with a photoelectric device to allow for automatic dimming of operations to approximately 50% of their normal brightness when ambient light drops to approximately five footcandles, and then increase back again for daytime operations.

A minimum of two electronic portable changeable message sign unit(s) will be required. Individual or collective use of signs will be required by Engineer when deemed necessary to supplement the traffic control plan.

Each sign shall be programmed in its permanent memory the following 15 messages:

1. Ramp Closed Ahead
2. Use Other Routes
3. Right Lane
4. Left Lane
5. Closed Ahead
6. Two Lane
7. Detour Ahead

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- 8. Thru Traffic
- 9. Prepare To Stop
- 10. Merging Traffic
- 11. Expect 15 Minute Delay
- 12. Max Speed ** MPH
- 13. Merge Right
- 14. Merge Left
- 15. No Exit Next ** Miles

GENERAL NOTES - ROADWAY ILLUMINATION

Only materials, with approved product codes or designations, from prequalified producers are accepted on bids. The Construction Division (CST) of the Texas Department of Transportation (TxDOT) maintains the material producers list of approved producer product codes or designations.

Locate all luminaires, electrical service points, ground boxes and conduit as directed.

Electrical service points may be moved a maximum of 50 feet from the location shown in the plans, with approval. If it is necessary to move a service point more than 50 feet, recalculate the voltage drop for all related circuits.

Mast-arm poles may be moved a maximum of 15 feet along and parallel to the roadway to be illuminated. If a pole is moved more than 5 feet, the location of adjacent poles should also be revised, so as to maintain uniform spacing.

Furnish the following padlock for service cabinets and safety switch enclosures:

Texas Department of Transportation: Master Lock, Key No. 2195

Furnish one padlock for each service assembly enclosure.

Where possible, conduit runs should be straight and placed with a minimum number of bends and/or ground boxes.

If the actual length of conductor in a circuit exceeds the estimated length by more than 75 feet, recalculate the voltage drop for the circuit.

The Contractor's attention is directed to all locations where illumination circuits cross existing sign light, traffic signal, surveillance, or roadway illumination circuits owned by TxDOT the Contractor will be responsible for locating any existing circuits prior to any trenching, foundation drilling or excavation. If any existing circuits are damaged by the Contractor, splice the circuits or repair the conduit and replace the conductor as directed, to ensure proper operation of the system. Complete these temporary repairs as soon as possible after damage occurs. All

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labor and materials required for the temporary repairs will be at the Contractor's expense. Maintain the temporary repairs until permanent repairs are made.

Permanent repairs shall consist of the replacement of damaged or temporarily repaired conduit, conductor, ground boxes, etc., as directed, and shall be constructed in accordance with the requirements of the appropriate bid items and this project for new construction.

Permanent repairs, including the placement of ground boxes, extensive conduit runs, etc. will be measured and paid for in accordance with the appropriate bid items.

Only one permanent repair per circuit run will be considered for payment.

Special Note to Item 7. Legal Relations and Responsibilities.

Do not use non-certified persons to perform electrical work. See Item 7.15 "Electrical Requirements" and special provision to Item 7 for additional details.

Item 610. Roadway Illumination Assemblies.

Furnish luminaires rated for operation at 480 volts.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings. Alternate designs to RIP-07 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.

Item 616. Performance Testing of Lighting Systems.

The Contractor shall provide thirty days' written notice to the engineer of his intent to start the test period for each service point and its related circuits.

Item 618. Conduit.

Bed all PVC conduit placed by open cut in field sand as approved.

Conduit bends at roadway illumination assembly foundations will not be paid for directly, but will be considered subsidiary to Item 416.

Use materials from pre-qualified material producers list as shown on the Texas Department of Transportation (TxDOT) - Construction Division's (CST) materials producers list. Category is "Roadway Illumination and Electrical Supplies."

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Items 618, 620, 624 & 628. Conduit, Electrical Conductors, Ground Boxes & Electrical Services.

Conduit and conductor from the electrical service point to the utility company pole will be measured and paid for as the size and type of conduit and conductors indicated on the plans.

Item 620. Electrical Conductors.

For both transformer and shoe-base type illumination poles, provide double-pole breakaway fuse holder from manufacturers pre-qualified by the Traffic Operations Division. Category is "Roadway Illumination and Electrical Supplies." Fuse holder is shown on list under Items 610 & 620.

Provide 10 amp time delay fuses.

Items 624. Ground Boxes.

Upon completion of wiring work within the ground boxes that are not set in roadway pavement, the contractor shall place a 6 inch diameter washer or metallic object (with a minimum surface area of 0.15 square feet) inside each proposed ground box. Payment for this work will not be paid for directly but will be considered subsidiary to Bid Item 624. This is to assist others in locating the ground boxes more readily in the future.

Items 620, 624, & 628. Electrical Conductors, Ground Boxes & Electrical Services.

Attach an identification tag with the circuit identification stamped on the tag to the conductors for each circuit at all junction boxes and ground boxes. Identify the circuit breakers for each circuit at the service box using identification tags for each breaker. Label each circuit as shown on the illumination layouts in the plans. Tags to be plastic.

Item 628. Electrical Services.

The Engineer will make all arrangements for electrical service. Notify the Engineer, in writing, a minimum of 30 days in advance of the need for electrical service.

Contact T.X.U. Electric to request electrical service

Phone: 1-888-835-5251; identify the desired service location by street address.

All roadway illumination circuits are 240/480V/3 wire with the roadway luminaires operating at 480V. All roadway illumination circuit breakers are 2-pole.

The concrete riprap pad at electrical service points will not be paid for directly, but will be subsidiary to Item 628.

Place a decal stating "DANGER/HIGH VOLTAGE" on the door of the service assembly enclosure. The size of the decal and lettering shall be as outlined in the current TxDOT electrical detail (ED) standard sheets.