

# NOTIFICATION OF ADDENDUM

## ADDENDUM NO. 1

**DATED 3/27/2015**

<b>Control</b>	<b>1378-06-011</b>
<b>Project</b>	<b>STP 2015(882)</b>
<b>Highway</b>	<b>FM 3406</b>
<b>County</b>	<b>WILLIAMSON</b>

Ladies/Gentlemen:

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

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

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

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

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

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

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: STP 2015(882)

CONTROL: 1378-06-011

COUNTY: WILLIAMSON

LETTING: 04/08/2015

REFERENCE NO: 0327

**PROPOSAL ADDENDUMS**

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\_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 17-17 )

\_ GENERAL NOTES (SH. NO.:

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

\_ SPECIAL PROVISIONS:

ADDED:

DELETED:

X SPECIAL SPECIFICATIONS:

ADDED: 6090

DELETED:

X OTHER: SEE CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS -  
ADDED SPECIAL SPECIFICATION 6090.6002

SPEC LIST -  
ADDED SPECIAL SPECIFICATION 6090

PLANS  
SHEET 4C - ESTIMATE AND QUANTITY - ADDED ITEM 6090.6002  
SHEET 8 - ADDED ITEM NUMBER AND DESCRIPTION 6090.6002 TO THE TRAFFIC  
SIGNAL TABLE  
SHEET 252 - ADDED THE ILSN DESCRIPTION TO THE PROPOSED SIGNAL SIGNS  
SHEET 253 - ADDED SMALL SIGN DETAIL  
SHEET 254 - ADDED SMALL SIGN DETAIL  
SHEET 257 - ADDED ITEM NUMBER AND DESCRIPTION 6090.6002 TO SUMMARY TABLE

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	6002		PREPARING ROW  DOLLARS and CENTS	STA	72.000	1
	104	6009		REMOVING CONC (RIPRAP)  DOLLARS and CENTS	SY	169.000	2
	104	6015		REMOVING CONC (SIDEWALKS)  DOLLARS and CENTS	SY	350.000	3
	104	6022		REMOVING CONC (CURB AND GUTTER)  DOLLARS and CENTS	LF	229.000	4
	104	6026		REMOVE CONC (GUTTER)  DOLLARS and CENTS	LF	505.000	5
	110	6001		EXCAVATION (ROADWAY)  DOLLARS and CENTS	CY	6,834.000	6
	132	6003		EMBANKMENT (FINAL)(ORD COMP)(TY B)  DOLLARS and CENTS	CY	10,519.000	7
	160	6003		FURNISHING AND PLACING TOPSOIL (4")  DOLLARS and CENTS	SY	29,601.000	8
	164	6003		BROADCAST SEED (PERM) (RURAL) (CLAY)  DOLLARS and CENTS	SY	29,601.000	9
	164	6009		BROADCAST SEED (TEMP) (WARM)  DOLLARS and CENTS	SY	14,807.000	10
	164	6011		BROADCAST SEED (TEMP) (COOL)  DOLLARS and CENTS	SY	14,807.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	168	6001		VEGETATIVE WATERING  DOLLARS and CENTS	MG	903.000	12
	169	6001		SOIL RETENTION BLANKETS (CL 1) (TY A)  DOLLARS and CENTS	SY	3,000.000	13
	169	6003		SOIL RETENTION BLANKETS (CL 1) (TY C)  DOLLARS and CENTS	SY	65.000	14
	247	6366		FL BS (CMP IN PLC)(TY A GR 5)(FNAL POS)  DOLLARS and CENTS	CY	6,026.000	15
	310	6001		PRIME COAT (MULTI OPTION)  DOLLARS and CENTS	GAL	3,269.000	16
	341	6008		D-GR HMA TY-B PG64-22  DOLLARS and CENTS	TON	3,089.000	17
	341	6040		D-GR HMA TY-D PG64-22  DOLLARS and CENTS	TON	1,718.000	18
	347	6002		TOM-C (AGGREGATE) SAC-A  DOLLARS and CENTS	TON	2,329.000	19
	347	6003		TOM (ASPHALT) PG 70-22  DOLLARS and CENTS	TON	180.000	20
	400	6005		CEM STABIL BKFL  DOLLARS and CENTS	CY	27.000	21
	400	6006		CUT & RESTORING PAV  DOLLARS and CENTS	SY	365.000	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	401	6001		FLOWABLE BACKFILL  DOLLARS and CENTS	CY	385.000	23
	402	6001		TRENCH EXCAVATION PROTECTION  DOLLARS and CENTS	LF	469.000	24
	403	6001		TEMPORARY SPL SHORING  DOLLARS and CENTS	SF	11,566.000	25
	416	6004		DRILL SHAFT (36 IN)  DOLLARS and CENTS	LF	154.000	26
	416	6031		DRILL SHAFT (TRF SIG POLE) (30 IN)  DOLLARS and CENTS	LF	12.000	27
	416	6032		DRILL SHAFT (TRF SIG POLE) (36 IN)  DOLLARS and CENTS	LF	42.000	28
	420	6013		CL C CONC (ABUT)  DOLLARS and CENTS	CY	20.000	29
	420	6025		CL C CONC (BENT)  DOLLARS and CENTS	CY	29.000	30
	420	6074		CL C CONC (MISC)  DOLLARS and CENTS	CY	6.000	31
	422	6001		REINF CONC SLAB  DOLLARS and CENTS	SF	2,450.000	32
	423	6001		RETAINING WALL (MSE)  DOLLARS and CENTS	SF	9,193.000	33

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	ITEM NO	DESC CODE	S.P. NO.				
	423	6008		RETAINING WALL (CAST - IN - PLACE) DOLLARS and CENTS	SF	3,540.000	34
	425	6035		PRESTR CONC GIRDER (TX28) DOLLARS and CENTS	LF	347.000	35
	432	6001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	162.000	36
	432	6033		RIPRAP (STONE PROTECTION)(18 IN) DOLLARS and CENTS	CY	122.000	37
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	112.000	38
	442	6007		STR STEEL (MISC NON - BRIDGE) DOLLARS and CENTS	LB	343.000	39
	450	6030		RAIL (TY C221) DOLLARS and CENTS	LF	415.000	40
	450	6052		RAIL (HANDRAIL)(TY F) DOLLARS and CENTS	LF	1,837.000	41
	454	6004		ARMOR JOINT (SEALED) DOLLARS and CENTS	LF	22.000	42
	462	6001		CONC BOX CULV (3 FT X 2 FT) DOLLARS and CENTS	LF	895.000	43
	462	6002		CONC BOX CULV (3 FT X 3 FT) DOLLARS and CENTS	LF	507.000	44

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	ITEM NO	DESC CODE	S.P. NO.				
	462	6003		CONC BOX CULV (4 FT X 2 FT) and DOLLARS CENTS	LF	165.000	45
	462	6027		CONC BOX CULV (9 FT X 8 FT) and DOLLARS CENTS	LF	78.000	46
	462	6032		CONC BOX CULV (10 FT X 8 FT) and DOLLARS CENTS	LF	26.000	47
	464	6003		RC PIPE (CL III)(18 IN) and DOLLARS CENTS	LF	161.000	48
	464	6005		RC PIPE (CL III)(24 IN) and DOLLARS CENTS	LF	1,277.000	49
	465	6019		INLET (COMPL)(PCO)(4FT)(RIGHT) and DOLLARS CENTS	EA	5.000	50
	465	6030		INLET (COMPL)(PCU)(3FT)(LEFT) and DOLLARS CENTS	EA	5.000	51
	465	6031		INLET (COMPL)(PCU)(3FT)(RIGHT) and DOLLARS CENTS	EA	1.000	52
	465	6032		INLET (COMPL)(PCU)(3FT)(BOTH) and DOLLARS CENTS	EA	2.000	53
	465	6126		INLET (COMPL)(PSL)(FG)(3FTX3FT-3FTX3FT) and DOLLARS CENTS	EA	3.000	54
	466	6173		WINGWALL (PW - 1) (HW=12 FT) and DOLLARS CENTS	EA	1.000	55

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	ITEM NO	DESC CODE	S.P. NO.				
	466	6174		WINGWALL (PW - 1) (HW=13 FT) DOLLARS and CENTS	EA	1.000	56
	466	6180		WINGWALL (PW - 1) (HW=5 FT) DOLLARS and CENTS	EA	1.000	57
	467	6110		SET (TY I)(S=3 FT)(HW= 3 FT)(6:1)(P) DOLLARS and CENTS	EA	1.000	58
	467	6139		SET (TY I)(S= 4 FT)(HW= 3 FT)(4:1) (C) DOLLARS and CENTS	EA	2.000	59
	467	6363		SET (TY II) (18 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	2.000	60
	467	6395		SET (TY II) (24 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	3.000	61
	474	6001		SLOT DRAIN (GAL STL) (12 IN) DOLLARS and CENTS	LF	10.000	62
	474	6002		SLOT DRAIN OUTFALL (GAL STL) (12 IN) DOLLARS and CENTS	LF	15.000	63
	479	6001		ADJUSTING MANHOLES DOLLARS and CENTS	EA	1.000	64
	481	6014		PIPE (PVC) (SCH 40) (8 IN) DOLLARS and CENTS	LF	58.000	65
	496	6004		REMOV STR (SET) DOLLARS and CENTS	EA	28.000	66

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	ITEM NO	DESC CODE	S.P. NO.				
	496	6005		REMOV STR (WINGWALL)  and  DOLLARS CENTS	EA	2.000	67
	496	6007		REMOV STR (PIPE)  and  DOLLARS CENTS	LF	962.000	68
	500	6001		MOBILIZATION  and  DOLLARS CENTS	LS	1.000	69
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING  and  DOLLARS CENTS	MO	12.000	70
	506	6002	001	ROCK FILTER DAMS (INSTALL) (TY 2)  and  DOLLARS CENTS	LF	145.000	71
	506	6011	001	ROCK FILTER DAMS (REMOVE)  and  DOLLARS CENTS	LF	145.000	72
	506	6020	001	CONSTRUCTION EXITS (INSTALL) (TY 1)  and  DOLLARS CENTS	SY	200.000	73
	506	6024	001	CONSTRUCTION EXITS (REMOVE)  and  DOLLARS CENTS	SY	200.000	74
	506	6038	001	TEMP SEDMT CONT FENCE (INSTALL)  and  DOLLARS CENTS	LF	10,159.000	75
	506	6039	001	TEMP SEDMT CONT FENCE (REMOVE)  and  DOLLARS CENTS	LF	10,159.000	76

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	506	6040	001	BIODEG EROSN CONT LOGS (INSTL) (8") DOLLARS and CENTS	LF	236.000	77
	506	6042	001	BIODEG EROSN CONT LOGS (INSTL) (18") DOLLARS and CENTS	LF	60.000	78
	506	6043	001	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	296.000	79
	512	6005		PORT CTB (FUR & INST)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	400.000	80
	512	6017		PORT CTB (DES SOURCE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	400.000	81
	512	6041		PORT CTB (STKPL)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	400.000	82
	512	6053		PORT CTB (REMOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	400.000	83
	529	6005		CONC CURB (MONO) (TY II) DOLLARS and CENTS	LF	67.000	84
	529	6008		CONC CURB & GUTTER (TY II) DOLLARS and CENTS	LF	2,752.000	85
	530	6004		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	71.000	86
	531	6002		CONC SIDEWALKS (5") DOLLARS and CENTS	SY	2,461.000	87

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	ITEM NO	DESC CODE	S.P. NO.				
	531	6004		CURB RAMPS (TY 1)  DOLLARS and CENTS	EA	2.000	88
	531	6010		CURB RAMPS (TY 7)  DOLLARS and CENTS	EA	6.000	89
	540	6001		MTL W-BEAM GD FEN (TIM POST)  DOLLARS and CENTS	LF	2,306.000	90
	540	6006		MTL BEAM GD FEN TRANS (THRIE-BEAM)  DOLLARS and CENTS	EA	2.000	91
	540	6016		DOWNSTREAM ANCHOR TERMINAL SEC- TION  DOLLARS and CENTS	EA	1.000	92
	542	6001		REMOVE METAL BEAM GUARD FENCE  DOLLARS and CENTS	LF	2,038.000	93
	544	6001		GUARDRAIL END TREATMENT (INSTALL)  DOLLARS and CENTS	EA	5.000	94
	544	6003		GUARDRAIL END TREATMENT (REMOVE)  DOLLARS and CENTS	EA	6.000	95
	545	6001		CRASH CUSH ATTEN (INSTL)  DOLLARS and CENTS	EA	2.000	96
	545	6002		CRASH CUSH ATTEN (DES SOURCE)  DOLLARS and CENTS	EA	2.000	97

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	ITEM NO	DESC CODE	S.P. NO.				
	545	6004		CRASH CUSH ATTEN (STKPL) DOLLARS and CENTS	EA	2.000	98
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	2.000	99
	556	6007		PIPE UNDERDRAINS (TY 7) (6") DOLLARS and CENTS	LF	100.000	100
	618	6053		CONDT (PVC) (SCH 80) (3") DOLLARS and CENTS	LF	705.000	101
	618	6054		CONDT (PVC) (SCH 80) (3") (BORE) DOLLARS and CENTS	LF	1,668.000	102
	620	6007		ELEC CONDR (NO.8) BARE DOLLARS and CENTS	LF	1,474.000	103
	620	6008		ELEC CONDR (NO.8) INSULATED DOLLARS and CENTS	LF	1,059.000	104
	620	6009		ELEC CONDR (NO.6) BARE DOLLARS and CENTS	LF	146.000	105
	620	6010		ELEC CONDR (NO.6) INSULATED DOLLARS and CENTS	LF	292.000	106
	624	6008		GROUND BOX TY C (162911)W/APRON DOLLARS and CENTS	EA	4.000	107
	624	6010		GROUND BOX TY D (162922)W/APRON DOLLARS and CENTS	EA	4.000	108

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	ITEM NO	DESC CODE	S.P. NO.				
	644	6001		IN SM RD SN SUP&AM TY 10BWG(1)SA(P) DOLLARS and CENTS	EA	21.000	109
	644	6068		RELOCATE SM RD SN SUP&AM TY 10BWG DOLLARS and CENTS	EA	5.000	110
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	22.000	111
	658	6015		INSTL DEL ASSM (D-SW)SZ (BRF)GF1 DOLLARS and CENTS	EA	28.000	112
	658	6046		INSTL OM ASSM (OM-2X)(WC)GND DOLLARS and CENTS	EA	2.000	113
	662	6048		WK ZN PAV MRK REMOV (REFL) TY I-C DOLLARS and CENTS	EA	198.000	114
	662	6050		WK ZN PAV MRK REMOV (REFL) TY II-A-A DOLLARS and CENTS	EA	703.000	115
	662	6060		WK ZN PAV MRK REMOV (W)4"(BRK) DOLLARS and CENTS	LF	1,985.000	116
	662	6063		WK ZN PAV MRK REMOV (W)4"(SLD) DOLLARS and CENTS	LF	6,970.000	117
	662	6095		WK ZN PAV MRK REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	14,090.000	118
	662	6109		WK ZN PAV MRK SHT TERM (TAB)TY W DOLLARS and CENTS	EA	3,000.000	119

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	ITEM NO	DESC CODE	S.P. NO.				
	662	6110		WK ZN PAV MRK SHT TERM (TAB)TY Y DOLLARS and CENTS	EA	3,000.000	120
	662	6111		WK ZN PAV MRK SHT TERM (TAB)TY Y-2 DOLLARS and CENTS	EA	3,000.000	121
	666	6035		REFL PAV MRK TY I (W)8"(SLD)(090MIL) DOLLARS and CENTS	LF	3,063.000	122
	666	6041		REFL PAV MRK TY I (W)12"(SLD)(090MIL) DOLLARS and CENTS	LF	485.000	123
	666	6047		REFL PAV MRK TY I (W)24"(SLD)(090MIL) DOLLARS and CENTS	LF	292.000	124
	666	6053		REFL PAV MRK TY I (W)(ARROW)(090MIL) DOLLARS and CENTS	EA	16.000	125
	666	6077		REFL PAV MRK TY I (W)(WORD)(090MIL) DOLLARS and CENTS	EA	14.000	126
	666	6146		REFL PAV MRK TY I (Y)24"(SLD)(090MIL) DOLLARS and CENTS	LF	2,376.000	127
	666	6167		REFL PAV MRK TY II (W) 4" (BRK) DOLLARS and CENTS	LF	2,613.000	128
	666	6170		REFL PAV MRK TY II (W) 4" (SLD) DOLLARS and CENTS	LF	11,060.000	129
	666	6178		REFL PAV MRK TY II (W) 8" (SLD) DOLLARS and CENTS	LF	3,063.000	130

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	ITEM NO	DESC CODE	S.P. NO.				
	666	6180		REFL PAV MRK TY II (W) 12" (SLD) DOLLARS and CENTS	LF	485.000	131
	666	6182		REFL PAV MRK TY II (W) 24" (SLD) DOLLARS and CENTS	LF	277.000	132
	666	6184		REFL PAV MRK TY II (W) (ARROW) DOLLARS and CENTS	EA	16.000	133
	666	6192		REFL PAV MRK TY II (W) (WORD) DOLLARS and CENTS	EA	14.000	134
	666	6207		REFL PAV MRK TY II (Y) 4" (SLD) DOLLARS and CENTS	LF	14,002.000	135
	666	6214		REFL PAV MRK TY II (Y) 24" (SLD) DOLLARS and CENTS	LF	2,376.000	136
	666	6299		RE PM W/RET REQ TY I (W)4"(BRK)(090MIL) DOLLARS and CENTS	LF	2,613.000	137
	666	6302		RE PM W/RET REQ TY I (W)4"(SLD)(090MIL) DOLLARS and CENTS	LF	11,060.000	138
	666	6314		RE PM W/RET REQ TY I (Y)4"(SLD)(090MIL) DOLLARS and CENTS	LF	14,002.000	139
	672	6007		REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	312.000	140
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	781.000	141

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	ITEM NO	DESC CODE	S.P. NO.				
	677	6001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	42,959.000	142
	677	6003		ELIM EXT PAV MRK & MRKS (8") DOLLARS and CENTS	LF	1,000.000	143
	677	6005		ELIM EXT PAV MRK & MRKS (12") DOLLARS and CENTS	LF	314.000	144
	677	6007		ELIM EXT PAV MRK & MRKS (24") DOLLARS and CENTS	LF	575.000	145
	680	6002		INSTALL HWY TRF SIG (ISOLATED) DOLLARS and CENTS	EA	1.000	146
	680	6004		REMOVING TRAFFIC SIGNALS DOLLARS and CENTS	EA	1.000	147
	681	6001		TEMP TRAF SIGNALS DOLLARS and CENTS	EA	1.000	148
	682	6001		VEH SIG SEC (12")LED(GRN) DOLLARS and CENTS	EA	9.000	149
	682	6002		VEH SIG SEC (12")LED(GRN ARW) DOLLARS and CENTS	EA	5.000	150
	682	6003		VEH SIG SEC (12")LED(YEL) DOLLARS and CENTS	EA	9.000	151
	682	6004		VEH SIG SEC (12")LED(YEL ARW) DOLLARS and CENTS	EA	5.000	152

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	ITEM NO	DESC CODE	S.P. NO.				
	682	6005		VEH SIG SEC (12")LED(RED) DOLLARS and CENTS	EA	9.000	153
	682	6006		VEH SIG SEC (12")LED(RED ARW) DOLLARS and CENTS	EA	2.000	154
	682	6018		PED SIG SEC (LED)(COUNTDOWN) DOLLARS and CENTS	EA	8.000	155
	682	6023		BACK PLATE (12")(3 SEC) DOLLARS and CENTS	EA	6.000	156
	682	6024		BACK PLATE (12")(4 SEC) DOLLARS and CENTS	EA	2.000	157
	682	6025		BACK PLATE (12")(5 SEC) DOLLARS and CENTS	EA	3.000	158
	684	6008		TRF SIG CBL (TY A)(12 AWG)(3 CONDR) DOLLARS and CENTS	LF	1,245.000	159
	684	6009		TRF SIG CBL (TY A)(12 AWG)(4 CONDR) DOLLARS and CENTS	LF	378.000	160
	684	6010		TRF SIG CBL (TY A)(12 AWG)(5 CONDR) DOLLARS and CENTS	LF	724.000	161
	684	6012		TRF SIG CBL (TY A)(12 AWG)(7 CONDR) DOLLARS and CENTS	LF	324.000	162
	684	6025		TRF SIG CBL (TY A)(12 AWG)(20 CONDR) DOLLARS and CENTS	LF	645.000	163

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	ITEM NO	DESC CODE	S.P. NO.				
	685	6005		RELOCT RDSD FLSH BCN AM (SOLAR PWRD) DOLLARS and CENTS	EA	3.000	164
	686	6026		INS TRF SIG PL AM(S)1 ARM(24')ILSN DOLLARS and CENTS	EA	1.000	165
	686	6044		INS TRF SIG PL AM(S)1 ARM(40')LUM&ILSN DOLLARS and CENTS	EA	1.000	166
	686	6048		INS TRF SIG PL AM(S)1 ARM(44')LUM&ILSN DOLLARS and CENTS	EA	2.000	167
	687	6001		PED POLE ASSEMBLY DOLLARS and CENTS	EA	4.000	168
	688	6001		PED DETECT PUSH BUTTON (APS) DOLLARS and CENTS	EA	8.000	169
	688	6003		PED DETECTOR CONTROLLER UNIT DOLLARS and CENTS	EA	1.000	170
	690	6006		REMOVAL OF GROUND BOXES DOLLARS and CENTS	EA	7.000	171
	6002	6001		VIVDS PROCESSOR SYSTEM DOLLARS and CENTS	EA	1.000	172
	6002	6002		VIVDS CAMERA ASSEMBLY DOLLARS and CENTS	EA	4.000	173
	6002	6003		VIVDS SET-UP SYSTEM DOLLARS and CENTS	EA	1.000	174

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6002	6004		VIVDS CENTRAL CONTROL  DOLLARS and CENTS	EA	1.000	175
	6002	6005		VIVDS COMMUNICATION CABLE (COAXIAL)  DOLLARS and CENTS	LF	1,249.000	176
	6090	6002		ILSN (LED) (8 D)  DOLLARS and CENTS	EA	4.000	177

CONTROL : 1378-06-011  
PROJECT : STP 2015(882)  
HIGHWAY : FM 3406  
COUNTY : WILLIAMSON

TEXAS DEPARTMENT OF TRANSPORTATION

**GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS**

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

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF  
----- TRANSPORTATION NOVEMBER 1, 2014.  
STANDARD SPECIFICATIONS ARE INCORPORATED  
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS  
ITEM 100 PREPARING RIGHT OF WAY (100)  
ITEM 104 REMOVING CONCRETE  
ITEM 110 EXCAVATION (132)  
ITEM 132 EMBANKMENT (100)(160)(204)(210)(216)(260)(400)  
ITEM 160 TOPSOIL (168)  
ITEM 164 SEEDING FOR EROSION CONTROL (162)(166)(168)  
ITEM 168 VEGETATIVE WATERING  
ITEM 169 SOIL RETENTION BLANKETS  
ITEM 247 FLEXIBLE BASE (105)(204)(210)(216)(520)  
ITEM 310 PRIME COAT (300)(316)  
ITEM 341 DENSE-GRADED HOT-MIX ASPHALT (300)(301)(320)(520)(585)  
ITEM 347 THIN OVERLAY MIXTURES (TOM) (300)(301)(320)(520)(585)  
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (110)(132)(401)  
(402)(403)(416)(420)(421)(423)  
ITEM 401 FLOWABLE BACKFILL (421)  
ITEM 402 TRENCH EXCAVATION PROTECTION  
ITEM 403 TEMPORARY SPECIAL SHORING (410)(411)(423)  
ITEM 416 DRILLED SHAFT FOUNDATIONS (405)(420)(421)(423)(440)(448)  
ITEM 420 CONCRETE SUBSTRUCTURES (400)(404)(421)(422)(426)(427)  
(440)(441)(448)  
ITEM 422 CONCRETE SUPERSTRUCTURES (420)(421)(424)(438)(440)(448)  
(454)(782)  
ITEM 423 RETAINING WALLS (110)(132)(216)(400)(416)(420)(421)(424)  
(440)(445)  
ITEM 425 PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS (409)  
(420)(421)(424)(426)(427)(434)(440)(442)(445)  
ITEM 432 RIPRAP (247)(420)(421)(431)(440)  
ITEM 442 METAL FOR STRUCTURES (441)(445)(446)(447)(448)  
ITEM 450 RAILING (420)(421)(422)(424)(440)(441)(442)(445)(446)

(448)

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

ITEM 462 CONCRETE BOX CULVERTS AND DRAINS (400)(402)(403)(420)  
(421)(422)(424)(440)(464)(476)

ITEM 464 REINFORCED CONCRETE PIPE (400)(402)(403)(467)(476)

ITEM 465 JUNCTION BOXES, MANHOLES, AND INLETS (400)(420)(421)(424)  
(440)(476)

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

ITEM 467 SAFETY END TREATMENT (400)(420)(421)(432)(440)(442)(445)  
(460)(464)

ITEM 474 LINEAR DRAINS (400)(420)(421)(440)(445)(460)(471)

ITEM 479 ADJUSTING MANHOLES AND INLETS (400)(421)(465)(471)

ITEM 481 PIPE FOR DRAINS (400)

ITEM 496 REMOVING STRUCTURES

ITEM 500 MOBILIZATION (504)

ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING

ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL  
CONTROLS (161)(432)(556)

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

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

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

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

ITEM 540 METAL BEAM GUARD FENCE (421)(441)(445)(529)

ITEM 542 REMOVING METAL BEAM GUARD FENCE

ITEM 544 GUARDRAIL END TREATMENTS

ITEM 545 CRASH CUSHION ATTENUATORS (421)

ITEM 556 PIPE UNDERDRAINS (402)(432)

ITEM 618 CONDUIT (400)(476)

ITEM 620 ELECTRICAL CONDUCTORS (610)(628)

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

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

ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)

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

ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS (316)(318)(502)(662)  
(677)(678)

ITEM 672 RAISED PAVEMENT MARKERS (677)(678)

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

ITEM 680 HIGHWAY TRAFFIC SIGNALS (416)(610)(618)(624)(625)(627)  
(628)(636)(656)(682)(684)(686)(688)

ITEM 681 TEMPORARY TRAFFIC SIGNALS (416)(610)(618)(620)(621)(622)  
(624)(625)(627)(628)(636)(644)(656)(680)(682)(684)(686)  
(687)(688)(690)

ITEM 682 VEHICLE AND PEDESTRIAN SIGNAL HEADS

ITEM 684 TRAFFIC SIGNAL CABLES

ITEM 685 ROADSIDE FLASHING BEACON ASSEMBLIES (441)(442)(445)(449)  
(610)(620)(621)(624)(628)(656)(682)(684)(687)

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

ITEM 687 PEDESTAL POLE ASSEMBLIES (445)(449)(656)(682)

ITEM 688 PEDESTRIAN DETECTORS AND VEHICLE LOOP DETECTORS  
ITEM 690 MAINTENANCE OF TRAFFIC SIGNALS

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

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

WAGE RATES

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---001)  
SPECIAL PROVISION "NONDISCRIMINATION" (000---002)  
SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"  
(000---003)  
SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO  
ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)  
SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY  
CONSTRUCTION CONTRACT SPECIFICATIONS" (000---005)  
SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000---006)  
SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL AID  
CONTRACTS" (000---007)  
SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---010)  
SPECIAL PROVISION TO ITEM 6 (006---001)  
SPECIAL PROVISION TO ITEM 7 (007---001)  
SPECIAL PROVISION TO ITEM 506 (506---001)

SPECIAL SPECIFICATIONS:  
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ITEM 6002 VIDEO IMAGING VEHICLE DETECTION SYSTEM  
ITEM 6090 LED INTERNALLY ILLUMINATED STREET NAME SIGNS

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

# Special Specification 6090

## LED Internally Illuminated Street Name Signs



### 1. DESCRIPTION

Furnish, fabricate, and install light emitting diode (LED) internally illuminated street name (IISN) signs attached to traffic signal poles as shown on the plans.

### 2. MATERIALS

Provide new materials that comply with the details shown on the plans, the requirements of this Item, and the pertinent requirements of the following Items:

- Item 445, "Galvanizing"
- Item 446, "Field Cleaning and Painting Steel"
- Item 620, "Electrical Conductors"
- Item 621, "Tray Cable."

Furnish and fabricate LED IISN sign assemblies and associated mounting hardware from new materials that comply with this specification. Provide single side message or double side message signs as shown on the plans.

Furnish 6 sets of submittals, of the LED IISN and mounting hardware, to the Engineer at the project address. Do not begin work or purchase materials before the submittals are approved by the Engineer.

- 2.1. **General Requirements.** Ensure sign assembly standard lengths are between 4 feet and 10 feet. Ensure standard viewable heights are between 15 and 30 inches. Use single or double faced signs as required by plans. Ensure maximum weight of the sign does not exceed maximum capacity of IISN support arms. Construct sign fixture housing from 5000 or 6000 series aluminum. Powder-coat paint all exterior fixture housing glossy black or as shown on the plans. Ensure paint exceeds 1000-hr. salt-spray test in accordance with ASTM B117. IISN housing must be rated as NEMA type 3R. Use stainless steel screws and hardware.

Ensure sign panels, light sources, light engines, and power supplies can be replaced without sign removal. The sign shall be capable of continuous operation over a range in temperatures from -10 degrees to +140 degrees Fahrenheit.

- 2.2. **LED Requirements.** Provide high flux LED's that are rated to maintain a minimum 70% of their initial lumens after 60,000 hours according to IESNA LM-80-08. Ensure the LED arrays or modules will continue to operate if one LED goes out. Provide light engine and LED arrays or modules that are replaceable without removing the sign.

- 2.3. **Sign Panel Requirements.** Ensure the front panel of the sign is ultraviolet, weather, abrasion and impact resistant high impact strength polycarbonate, acrylic or a glass-fiber reinforced polyester fluoride. The front panel will be replaceable for future maintenance purposes. Provide translucent reflective type D sheeting and colored transparent acrylic film as per TxDOT DMS - 8300, "Sign Face Material."
- As per Texas Manual on Uniform Traffic Control Devices Section 2D.38, street name signs will have a white legend on a green background. A border, if used, will be the same color as the legend. The lettering should be at least 8 inch capital letters, or upper/lower case letters. Supplementary lettering to indicate the type of street (such as Street, Avenue, or Road) or the section of the City (such as SE) may be in smaller lettering,

at least 3 inches high. Ensure letter font type is Clearview - 2W as shown on *Standard Highway Sign Designs for Texas*, D3-1 Overhead Mount.

- 2.4. **Electrical and Illumination Requirements.** Provide IISN that will operate at 120 VAC. Ensure product meets standard for electric signs UL 48. The on-board circuitry of an IISN shall include voltage surge protection, to withstand high-repetition noise transients and low-repetition high-energy transients as stated in Section 2.1.8, NEMA Standard TS 2-2003. The power supply shall be housed inside the sign enclosure. Power supply shall be UL Class 2 limited output voltage and current plus isolation for safe operation, and UL rated for outdoor damp locations. Power supply shall be IP 64 Outdoor Rated. The light source shall evenly illuminate the sign panel. The average luminance over the entire panel surface will be uniform.
- 2.5. **Support Requirements.** The sign shall be designed and constructed to withstand 110 mph wind loads in conformance with the requirements of the AASHTO publication *Standard Specifications for Structural Supports of Highway Signs, Luminaires and Traffic Signals* (5th Edition 2009).  
  
The sign must be supplied with mounting brackets from the manufacturer (swinging or rigid mounting) as shown on the plans.
- 2.6. **Color.** The color of the legend, symbols, and background must fall within the CIE (The International Commission on Illumination) color coordinates and reflectance values listed in Table 1.

**Table 1**  
**CIE Chromaticity Coordinates and Reflectance Values**

	<b>White</b>			<b>Green</b>	
<b>x</b>	<b>y</b>	<b>Reflectance</b>	<b>x</b>	<b>y</b>	<b>Reflectance</b>
0.300	0.290	40 minimum	0.255	0.330	3.5 – 10
280	0.310		0.255	0.520	
0.360	0.360		0.020	0.540	

- 2.7. **Workmanship.** The panels must exhibit good workmanship and must be free from objectionable marks or defects that would adversely affect appearance or serviceability.
- 2.8. **Warranty.** The manufacturer will replace failed IISNs, when non-operable due to defect in material or workmanship, within five years of installation with a new IISN that passes all testing, delivered and installed at the project location.

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**3. CONSTRUCTION**

Fabricate and install internally illuminated street name signs in accordance with the details and dimensions shown on the plans, specified, or as approved by the Engineer. Install in accordance with the latest Electrical Detail Standards. Install signs level and plumb brackets or clamps. Attach IISN to traffic signal poles as per manufacturer's instructions or as shown on the plans.

Use established industry and utility safety practices when installing IISNs located near overhead or underground utilities. Consult with the appropriate utility company before beginning work.

Prevent scarring or marring of the poles, mast arms, and IISNs. Replace damaged components. Repair damaged galvanizing in accordance with Section 445.3.5, "Repairs." Repair damaged painted areas of a roadway illumination assembly in accordance with Item 446, "Field Cleaning and Painting Steel."

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**4. MEASUREMENT**

This Item will be measured as each LED IISN sign installed.

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**5. PAYMENT**

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement", will be paid for at the unit bid price for "LED Internally Illuminated Street Name Signs" of the sizes and types specified. This price is full compensation for furnishing, fabricating and installing the signs; support arm clamp assembly; liquidtight flexible metal conduit; and equipment, labor, tools, and incidentals.

New conduit will be paid for under Item 618, "Conduit." New conductors, except the conductors internal to the pole, will be paid for under Item 620, "Electrical Conductors." New tray cable, except the tray cable internal to the pole, will be paid for under Item 621, "Tray Cable."

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