

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 5/03/2013

Control	0091-06-049, ETC.
Project	STP 2013(727)MM, ETC.
Highway	SH 289
County	DALLAS

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 2013(727)MM

CONTROL: 0091-06-049

COUNTY: DALLAS

LETTING: 05/08/2013

REFERENCE NO: 0503

PROPOSAL ADDENDUMS

_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 3-12)

X GENERAL NOTES (SH. NO.: G,J)

_ 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 3-12 ITEM 536-2006 HAS BEEN ADDED.

SHEETS 3-12 THROUGH 12-12: INFORMATION MAY HAVE SHIFTED DUE TO ABOVE CHANGES.

GENERAL NOTES:

SHEET G: ITEM 360 NOTES HAVE BEEN REVISED.

SHEET J: ITEM 530 NOTES HAVE BEEN REVISED.

SHEETS G - R: INFORMATION MAY HAVE SHIFTED DUE TO ABOVE CHANGES.

PLAN SET:

THE FOLLOWING SHEETS HAVE BEEN REPLACED: 6, 6A-6H, 7, 7A, 7B, 41.

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	8.770	1
	104	2001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	274.000	2
	104	2011		REMOVING CONC (MEDIANS) DOLLARS and CENTS	SY	427.000	3
	104	2015		REMOVING CONC (SIDEWALKS) DOLLARS and CENTS	SY	1,447.000	4
	104	2017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	480.000	5
	104	2022		REMOVING CONC (CURB AND GUTTER) DOLLARS and CENTS	LF	1,467.000	6
	105	2002		REMOVING STAB BASE AND ASPH PAV (2") DOLLARS and CENTS	SY	274.000	7
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	581.000	8
	162	2002		BLOCK SODDING DOLLARS and CENTS	SY	696.000	9
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	20.200	10
	360	2010	003	CONC PVMT (JOINTED-CPCD)(9") DOLLARS and CENTS	SY	1,440.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	416	2032	001	DRILL SHAFT (TRF SIG POLE) (36 IN) DOLLARS and CENTS	LF	52.000	12
	464	2002	006	RC PIPE (CL III)(15 IN) DOLLARS and CENTS	LF	14.000	13
	464	2005	006	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	7.000	14
	465	2195	001	INLET (COMPL)(CURB)(TY 1) DOLLARS and CENTS	EA	4.000	15
	465	2221	001	INLET EXT (TY I) DOLLARS and CENTS	EA	4.000	16
	496	2002		REMOV STR (INLET) DOLLARS and CENTS	EA	4.000	17
	500	2001	011	MOBILIZATION DOLLARS and CENTS	LS	1.000	18
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	6.000	19
	529	2006		CONC CURB (MONO) (TY II) DOLLARS and CENTS	LF	1,478.000	20
	530	2010	006	DRIVEWAYS (CONC) DOLLARS and CENTS	SY	265.000	21

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	531	2004		CONC SIDEWALKS (6") and DOLLARS CENTS	SY	767.000	22
	531	2040		CURB RAMPS (TY 5) and DOLLARS CENTS	EA	4.000	23
	531	2041		CURB RAMPS (TY 10) and DOLLARS CENTS	EA	9.000	24
	536	2002		CONC MEDIAN and DOLLARS CENTS	SY	316.000	25
	536	2006		CONC MEDIAN (MONO NOSE) and DOLLARS CENTS	SY	14.000	26
	610	2067	015	REMOVE RD IL ASM (SHOE-BASE) and DOLLARS CENTS	EA	4.000	27
	618	2018		CONDT (PVC) (SCHD 40) (2") and DOLLARS CENTS	LF	81.000	28
	618	2022		CONDT (PVC) (SCHD 40) (3") and DOLLARS CENTS	LF	82.000	29
	618	2024		CONDT (PVC) (SCHD 40) (4") and DOLLARS CENTS	LF	39.000	30
	618	2025		CONDT (PVC) (SCHD 40) (4") (BORE) and DOLLARS CENTS	LF	416.000	31
	618	2034		CONDT (PVC) (SCHD 80) (2") and DOLLARS CENTS	LF	30.000	32

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	620	2008	001	ELEC CONDR (NO. 4) INSULATED DOLLARS and CENTS	LF	237.000	33
	620	2010	001	ELEC CONDR (NO. 6) INSULATED DOLLARS and CENTS	LF	80.000	34
	620	2012	001	ELEC CONDR (NO. 8) INSULATED DOLLARS and CENTS	LF	761.000	35
	620	2016	001	ELEC CONDR (NO.12) INSULATED DOLLARS and CENTS	LF	160.000	36
	624	2012	014	GROUND BOX TY C (162911) W/APRON DOLLARS and CENTS	EA	8.000	37
	624	2034	014	REMOVE EXISTING GROUND BOXES DOLLARS and CENTS	EA	3.000	38
	628	2188	003	ELC SRV TY D 120/240 070 (NS)SS(E)PS(U) DOLLARS and CENTS	EA	1.000	39
	644	2001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	2.000	40
	644	2056		RELOCATE SM RD SN SUP & AM TY 10BWG DOLLARS and CENTS	EA	4.000	41
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	1.000	42
	662	2064		WK ZN PAV MRK REMOV (W) 4" (BRK) DOLLARS and CENTS	LF	386.000	43

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	ITEM NO	DESC CODE	S.P. NO.				
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	3,467.000	44
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	1,653.000	45
	666	2014		REFL PAV MRK TY I (W) 6" (BRK)(090MIL) DOLLARS and CENTS	LF	800.000	46
	666	2017		REFL PAV MRK TY I (W) 6" (DOT)(090MIL) DOLLARS and CENTS	LF	52.000	47
	666	2023		REFL PAV MRK TY I (W) 6" (SLD)(090MIL) DOLLARS and CENTS	LF	2,746.000	48
	666	2041		REFL PAV MRK TY I (W) 12"(SLD)(090MIL) DOLLARS and CENTS	LF	640.000	49
	666	2047		REFL PAV MRK TY I (W) 24"(SLD)(090MIL) DOLLARS and CENTS	LF	180.000	50
	666	2053		REFL PAV MRK TY I (W) (ARROW) (090MIL) DOLLARS and CENTS	EA	10.000	51
	666	2095		REFL PAV MRK TY I (W) (WORD) (090MIL) DOLLARS and CENTS	EA	8.000	52
	666	2119		REFL PAV MRK TY I (Y) 6" (SLD)(090MIL) DOLLARS and CENTS	LF	1,441.000	53
	666	2146		REF PAV MRK TY II (W) 6" (BRK) DOLLARS and CENTS	LF	800.000	54

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	ITEM NO	DESC CODE	S.P. NO.				
	666	2147		REF PAV MRK TY II (W) 6" (DOT) DOLLARS and CENTS	LF	52.000	55
	666	2149		REF PAV MRK TY II (W) 6" (SLD) DOLLARS and CENTS	LF	2,746.000	56
	666	2155		REF PAV MRK TY II (W) 12" (SLD) DOLLARS and CENTS	LF	640.000	57
	666	2157		REF PAV MRK TY II (W) 24" (SLD) DOLLARS and CENTS	LF	180.000	58
	666	2160		REF PAV MRK TY II (W) (ARROW) DOLLARS and CENTS	EA	10.000	59
	666	2173		REF PAV MRK TY II (W) (WORD) DOLLARS and CENTS	EA	8.000	60
	666	2181		REF PAV MRK TY II (Y) 6" (SLD) DOLLARS and CENTS	LF	1,441.000	61
	672	2017	034	REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	34.000	62
	677	2001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	4,647.000	63
	678	2002		PAV SURF PREP FOR MRK (6") DOLLARS and CENTS	LF	4,852.000	64
	678	2004		PAV SURF PREP FOR MRK (12") DOLLARS and CENTS	LF	640.000	65

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	ITEM NO	DESC CODE	S.P. NO.				
	678	2006		PAV SURF PREP FOR MRK (24") DOLLARS and CENTS	LF	180.000	66
	678	2007		PAV SURF PREP FOR MRK (ARROW) DOLLARS and CENTS	EA	10.000	67
	678	2018		PAV SURF PREP FOR MRK (WORD) DOLLARS and CENTS	EA	8.000	68
	680	2002		INSTALL HWY TRF SIG (ISOLATED) DOLLARS and CENTS	EA	1.000	69
	682	2001	003	BACK PLATE (12 IN) (3 SEC) DOLLARS and CENTS	EA	12.000	70
	682	2002	003	BACK PLATE (12 IN) (4 SEC) DOLLARS and CENTS	EA	2.000	71
	682	2003	003	BACK PLATE (12 IN) (5 SEC) DOLLARS and CENTS	EA	2.000	72
	682	2022	003	VEH SIG SEC (12 IN) LED (GRN ARW) DOLLARS and CENTS	EA	4.000	73
	682	2023	003	VEH SIG SEC (12 IN) LED (GRN) DOLLARS and CENTS	EA	8.000	74
	682	2024	003	VEH SIG SEC (12 IN) LED (YEL ARW) DOLLARS and CENTS	EA	6.000	75
	682	2025	003	VEH SIG SEC (12 IN) LED (YEL) DOLLARS and CENTS	EA	8.000	76

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	ITEM NO	DESC CODE	S.P. NO.				
	682	2026	003	VEH SIG SEC (12 IN) LED (RED ARW) DOLLARS and CENTS	EA	8.000	77
	682	2027	003	VEH SIG SEC (12 IN) LED (RED) DOLLARS and CENTS	EA	8.000	78
	682	2066	003	PED SIG SEC (12 IN) LED (COUNTDOWN) DOLLARS and CENTS	EA	8.000	79
	684	2031		TRF SIG CBL (TY A) (14 AWG) (5 CONDR) DOLLARS and CENTS	LF	368.000	80
	684	2033		TRF SIG CBL (TY A) (14 AWG) (7 CONDR) DOLLARS and CENTS	LF	252.000	81
	684	2038		TRF SIG CBL (TY A) (14 AWG) (12 CONDR) DOLLARS and CENTS	LF	524.000	82
	684	2046		TRF SIG CBL (TY A) (14 AWG) (20 CONDR) DOLLARS and CENTS	LF	513.000	83
	686	2043		INS TRF SIG PL AM(S) 1 ARM (44') DOLLARS and CENTS	EA	1.000	84
	686	2045		INS TRF SIG PL AM(S) 1 ARM (44') LUM DOLLARS and CENTS	EA	1.000	85
	686	2047		INS TRF SIG PL AM(S) 1 ARM (48') DOLLARS and CENTS	EA	1.000	86
	686	2049		INS TRF SIG PL AM(S) 1 ARM (48') LUM DOLLARS and CENTS	EA	1.000	87

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	ITEM NO	DESC CODE	S.P. NO.				
	687	2001	004	PED POLE ASSEMBLY DOLLARS and CENTS	EA	4.000	88
	1122	2037	001	TEMPORARY SEDIMENT CONTROL FENCE INSTLL DOLLARS and CENTS	LF	1,418.000	89
	1122	2038	001	TEMP SDMT CONT FENCE (INLET PROTEC- TION) DOLLARS and CENTS	LF	50.000	90
	1122	2057	001	TEMPORARY SEDIMENT CONTROL FENCE REMOVE DOLLARS and CENTS	LF	1,418.000	91
	2061	2001		6" PVC WATER PIPE WITH PAVING DOLLARS and CENTS	LF	50.000	92
	2061	2002		CAST IRON FITTINGS DOLLARS and CENTS	TON	.500	93
	2061	2003		WATER SERVICE DOLLARS and CENTS	EA	1.000	94
	2061	2004		INSTALL FIRE HYDRANT DOLLARS and CENTS	EA	2.000	95
	2061	2005		REMOVE FIRE HYDRANT DOLLARS and CENTS	EA	2.000	96
	2061	2006		DELIVER FIRE HYDRANT DOLLARS and CENTS	EA	2.000	97

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	ITEM NO	DESC CODE	S.P. NO.				
	2061	2007		6" GATE VALVE DOLLARS and CENTS	EA	1.000	98
	2061	2008		CUT AND PLUG EXISTING WATER MAIN DOLLARS and CENTS	EA	1.000	99
	2061	2009		WASTEWATER LATERAL DOLLARS and CENTS	EA	1.000	100
	2061	2010		TRENCH EXCAVATION SAFETY AND SUP- PORT DOLLARS and CENTS	LF	50.000	101
	2061	2011		ROCK FOUNDATION DOLLARS and CENTS	CY	1.000	102
	2061	2012		SAND BACKFILL DOLLARS and CENTS	CY	5.000	103
	2061	2013		DISP OF HEAV CHLOR WTR MAIN FLUSH WTR DOLLARS and CENTS	LS	1.000	104
	2061	2014		ADJ AND/OR RELOC OF WATER METER BOX DOLLARS and CENTS	EA	7.000	105
	2061	2015		ADJ OF WTR VALV COVERS AND VALVE STACKS DOLLARS and CENTS	EA	1.000	106
	2061	2016		ADJ OF WASTEWATER LATERAL CLEANOUT DOLLARS and CENTS	EA	4.000	107

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	2061	2017		INSTALL FIRE HYDRANT EXTENSION DOLLARS and CENTS	EA	2.000	108
	2061	2018		REMOVE FIRE HYDRANT EXTENSION DOLLARS and CENTS	EA	2.000	109
	2061	2019		INVESTIGATION DOLLARS and CENTS	EA	1.000	110
	2061	2020		REPLACE EXIST WASTEWATER LAT CLEANOUT DOLLARS and CENTS	EA	1.000	111
	2061	2021		12" X 6" TAPPING SLEEVE DOLLARS and CENTS	EA	1.000	112
	3267	2011		D-GR HMA(SQ) TY-B PG64-22 DOLLARS and CENTS	TON	390.000	113
	3267	2032		D-GR HMA(SQ) TY-C SAC-B PG64-22 DOLLARS and CENTS	TON	150.000	114
	6007	2001		REMOVING TRAFFIC SIGNALS DOLLARS and CENTS	EA	1.000	115
	6266	2001	017	VIVDS PROCESSOR SYSTEM DOLLARS and CENTS	EA	1.000	116
	6266	2002	017	VIVDS CAMERA ASSEMBLY DOLLARS and CENTS	EA	4.000	117

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6266	2003	017	VIVDS SET-UP SYSTEM DOLLARS and CENTS	EA	1.000	118
	6266	2005	017	VIVDS COMMUNICATION CABLE (COAXIAL) DOLLARS and CENTS	LF	758.000	119
	8835	2001		ACCESSIBLE PEDESTRIAN SIGNAL UNITS DOLLARS and CENTS	EA	8.000	120

SW3P RESPONSIBILITIES

TxDOT Area of Responsibility

Responsible for the area defined by the limits of the subject project, except for those areas utilized and operated by the contractor. These areas include, though are not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants.

TxDOT Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and operating the project within the requirements of the CGP for discharging storm water from the subject project and to notify MS4 permit holders of the intent to discharge storm water.

File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Contractor Area of Responsibility

Responsible for all areas under their direct operational control which includes, though not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants. These areas may be located on or off the subject project's R.O.W.

Contractor Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and adhering to all requirements of the permit for discharging storm water from the areas under their operational control. Perform regular inspections, prepare a written report of deficiencies, and repair deficiencies within the time frame set forth by the permit. File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Responsible under contractual obligations to TxDOT to install, clean, repair, replace or remove sediment and erosion control devices as indicated on TxDOT's Inspection Reports, or as required by daily construction practices, within the time frame set forth by the permit.

SPECIFICATION DATA

Table 2: Basis of Estimate for Permanent Construction					
Item	Description	Thickness	Rate		Quantity
162	Block Sod	N/A			696.0 SY
166 *	Fertilizer (12-6-6)	N/A	500	Lb/Ac	**
3267,3224	Hot Mix Asphalt (Ty B)	6"	110	Lb/(SY*In)	558.0 Ton
* For contractor's information only					
**Dependent on fertilizer analysis used.					
Note: (1) Base material weight based on 1.50 Ton/CY (dry- compacted) (2) Asphalt weight based on 110 Lb/(SY*In) (3) Subgrade weight based on 1.5 Ton/CY (dry- compacted)					

Table 3: Basis of Estimate for Temporary Erosion Control Items				
Item	Description	Rate		Quantity
166*	Fertilizer (12-6-6)	500	Lb/Ac	**
168	Vegetative Watering	N/A	Mg/Ac	20.2 Mg
*For contractor's information only				
**Dependent on fertilizer analysis used.				

GENERAL

Access will be provided to all business and residences at all times. Materials, labor and maintenance for these temporary accesses will not be paid for directly but will be considered subsidiary to the various bid items.

The construction, operation and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

The disturbed area for this project, as shown on the plans is 0.56 acres. However, the Total Disturbed Area (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

This project required coordination with environmental resources agencies. There is a high probability that an environmentally sensitive area could be encountered on the contractor designated Project-Specific Locations (PSL) for this project (haul roads, equipment staging areas, borrow pits, disposal sites, field offices, storage areas, parking areas, etc.). Item 7.19.F, "Project-Specific Locations", will provide a listing of regulatory agencies that may need to be contacted regarding this project.

Prior to contract letting, bidders may request electronic earthwork information by email.

Email: paul.williams@txdot.gov

Email: william.fuller@txdot.gov

Earthwork files will be provided by email or by using TxDOT's Dropbox FTP Service.

Bidders may also obtain a free computer diskette that contains earthwork information from the engineer's office. Paper copies of cross-sections may be produced by using the provided free diskette at the bidders' expense and at copying companies. This data is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the enclosed data with appropriate plans, specifications and estimate for the project(s).

Install traffic marking signs prior to sealcoat application and remove within three days after placement of traffic markings.

Leave all right of way areas undisturbed until actual construction is to be performed in said areas.

Use established industry and utility safety practices to erect poles, luminaries, signs or structures near any overhead or underground utility. Consult with the appropriate utility company prior to beginning such work.

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way on this project. For signal, illumination, surveillance, and communications & control maintained by TxDOT, call the TxDOT Traffic Signal Office (214-320-6682) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Maintenance Landscape Office (214-320-6205) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages incurred to the above mentioned utilities when working without having the utilities located prior to excavation.

For the project to be deemed complete, permanently stabilize all unpaved disturbed areas of the project with a vegetative cover at a minimum of 70% density for the control of erosion.

Repair or replace any structures and utilities that might have been damaged by negligence or a failure to have utility locates performed.

Perform all electrical work in accordance with the National Electrical Code and Texas Department of Transportation Specifications.

Consult with appropriate electric company representatives according to their respective area to coordinate electrical services installations.

Provide the engineer with a daily work schedule of planned work.

Submit pre-letting questions, by email only, to the attention of Area Engineer or Area Engineer's representative.

Email: paul.williams@txdot.gov or william.fuller@txdot.gov

Answers will be provided by email.

An electronic file containing pre-letting questions and TxDOT answers will be provided upon email request.

Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

Provide the Engineer with a copy of all DBE subcontractor agreements prior to commencing work.

Locate all utilities, both underground and above ground, in the project area prior to beginning work so that conflicts are avoided.

If city owned irrigation facilities are present, call the appropriate department of the city a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages incurred to the above mentioned utilities when working without having the utilities located prior to excavation.

Submit all shop drawings, working drawings, or other documents which require review sufficiently in advance of scheduled construction to allow no less than thirty (30) calendar days for review and response.

Item 8:

This Project will be a Five-Day Workweek in accordance with Article 8.3.A.1.

Item 100:

Remove and replace the existing roadway small signs, delineators and object markers as shown on the plans, or as directed, during construction within the right of way. Small sign, delineator and object marker removals and replacements are subsidiary to this Item.

The limits of preparing right of way will be measured from Sta. 102+23.00 to Sta. 111+00.00 along the centerline of construction.

Item 104:

In those areas where the pavement is not to be overlaid, provide a smooth surface after the curb removal. Planing or grinding is considered an acceptable method at these locations. Measurement and payment is in accordance with this item.

Sawing of concrete is not paid for directly, but is considered subsidiary to this item.

Items 105, 251, 305, and 354:

Saw existing asphalt along neat lines where portions are to be left in place temporarily or permanently. Sawing is not paid for directly, but is subsidiary to this item.

Item 105:

Take possession of recycled asphalt pavement from the project and recycle the material.

Properly dispose of unsalvageable material at your own expense.

Item 110:

Scarify and loosen the excavated areas, unpaved surface areas, except rock, to a depth of at least 8 inches and compact in accordance with the specifications.

Perform the following test by an approved laboratory on excavated soils when used for roadway embankment: 1- Tex-145-E (Sulfate Content in Soils), 2- Tex-106-E (Plasticity Index). Provide the above-mentioned test results on sources outside of the right of way at no expense to the department. Contact the engineer for a list of approved laboratories. Notify the engineer 72 hours before sampling and testing material. Perform split-sample verification testing with the engineer when directed. The engineer will sample and test soils produced by the construction project for specification requirements or material sources specified in the plans.

Excavated shale is not an acceptable material for embankment.

Items 110 and 132:

Excavation and embankment for driveways, sleeper slabs, alleys and intersections will not be paid for directly, but will be considered subsidiary to these items.

Highway: SH 289

Control: 0091-06-049

County: Dallas

Item 301:

Provide liquid antistripping agents unless otherwise directed. Provide manufacturer's instruction for liquid antistripping agent.

Add the minimum percentage determined by the manufacturer and try subsequent trials at 0.25% increments, unless otherwise instructed by the manufacturer.

Item 360:

Provide dowel support assemblies in concrete pavement constructed of No. 1/0 (0.306" diameter) wire in the main vertical members. Rigidly support the dowels in parallel positions and weld them on one end to the support frame. Provide weld attachments alternately on opposite ends of successive dowels. The support assembly is subject to approval.

Use of multiple piece tiebars will be required. Provide chairs for multiple piece tiebars, threaded connectors or other adequate devices, used in concrete paving, or tie them to the pavement reinforcing steel. If approved by the engineer for specific areas, in lieu of multiple piece tiebars, drill holes into the pavement and grout straight tiebars in place with epoxy. Use a non-impact, rotary core drill to prevent damage to the pavement unless otherwise directed. Clean the drill holes and then completely fill with epoxy before inserting the tiebar. Do not bend the tiebars or insert them into plastic concrete without the approval of the engineer.

Provide curbs monolithically constructed with the concrete pavement. If continuous monolithic curb has to be temporarily omitted for any reason, provide dowelled curbs in the proposed areas, as detailed in the plans, and apply an approved epoxy resin to the pavement to receive the curb as directed. This work and materials will not be paid for directly, but is considered subsidiary to this item.

If asphalt curing is used, cure the concrete pavement with MS-2.

Stockpile the concrete aggregates at the plant site.

Provide pavement widening joints, as detailed in the plans, at all locations where concrete pavement is placed adjacent to existing concrete pavement. Installation of these joints is not paid for directly, but is considered subsidiary to this item.

Payment for furnishing and installing the pre-molded expansion joint material between the retaining walls and concrete pavement is not paid for directly, but is considered subsidiary to this item.

Provide a curing machine equipped with rubber tires, or other acceptable arrangement, so that the machine will span the pavement and monolithic curb.

Curb transition is paid for as Type II mono curb.

The installation of curb openings is not paid for directly, but is considered subsidiary to this item.

Place construction, sawed and contraction joints in accordance with the pavement detail sheet and as directed. Joint locations, other than as shown on the plans, are subject to approval. Pavement leaveouts are required on this project as necessary to provide for traffic at driveways

and side streets as shown in the plans or as directed. The cost of providing these leaveouts, including the construction of a suitable crossover connection at each site, is not paid for directly but is considered subsidiary to this item.

If a traveling form paver is used, provide one equipped with an electronically operated horizontal control device.

Provide tiebars in longitudinal joints but do not place them within 15 inches of transverse joints.

Use "mechanical steel placing equipment" at the discretion of the engineer.

Contractor personnel performing job-control testing on concrete must be ACI- Certified. Provide a copy of certification paper to the Engineer upon arrival and before testing at job site. Furnish hard copies of calibration reports for testing equipment when non-TxDOT approved equipment is used to test concrete.

The engineer may allow the use of local commercial laboratories under contract to provide these services.

Item 400:

Structural Excavation is not paid for directly but is considered subsidiary to pertinent Items.

When placing concrete storm drain pipe on slopes of greater than 10 percent, provide cement stabilized backfill to a depth shown on the plans. The aggregate shall conform to the requirements of Article 421.2.E.2.

Item 416:

Provide a formed smooth finish for all portions of drill shafts extending above proposed ground. Include cost for this work in the unit bid price for this item.

Traffic signal pole foundations will be paid for once regardless of extra work caused by obstructions.

Install a 5/8"x10' copper clad ground rod in each traffic signal pole foundation. The ground rod for each foundation will protrude above the finish grade of the foundation a minimum of 1" and a maximum of 2".

Concrete removal required for installation of drilled shafts will be subsidiary to Item 416.

Item 420:

Apply an ordinary surface finish to all concrete surfaces within 30 days after form removal.

Item 421:

Furnish mix designs to the Engineer in a format compatible to the latest version of the Department's Construction Management System (SiteManager). Mix Design templates will be provided by the Engineer.

Provide sulfate resistant concrete for box culverts and all drilled shafts. At the contractor's option, a sulfate resistant high performance concrete may be used; however, high performance concrete is not considered sulfate resistant concrete when Class C fly ash and Type I cement is used in the mix design.

Item 440:

Fiber Reinforced Concrete (FRC) can be used as a substitute for Non-Structural Class Reinforced Concrete in Mow-Strip and Rip Rap Items as approved. FRC may also be used for other Non-Structural Class Reinforced Concrete Items as approved.

Item 442:

Use temperature Zone 1 for CVN testing.

Item 449:

Use Crouse Hinds TL-2, OZ/Gedney Stl, Thomas & Betts Kopr-Shield or other approved electrically conducting lubricant compound.

Item 464:

The concrete collars and the connections of pipes to existing or proposed concrete boxes or pipe will not be paid for directly but will be considered subsidiary to the various bid items.

At locations where storm drains dead-end, plug with a concrete plug of a thickness equal to 1 ½ inches per foot of diameter of pipe with a minimum thickness of 3 inches. The cost of the plugs shall be included in the unit price bid per foot of the various storm drain pipes.

Item 465:

The proposed 6" PVC, 12" PVC and 6" metal pipes and connections located at proposed curb inlet C-1 will not be paid for directly but will be considered subsidiary to this bid items.

Item 471:

Tackweld all inlet grates and manhole covers to the frame with two 1-inch welds. Supply unpainted cast iron inlet grate and frame and/or cast iron manhole frame and cover.

Item 496:

Concrete pavement removed as a result of removing the inlets will not be paid for directly but will be considered as subsidiary to Item 496.

Inlet grates and manhole covers become the property of the contractor for disposal.

Item 502:

Provide written proposed lane closure information by 1:00 pm on the business day prior to the proposed closures. Do not close lanes when this requirement is not met.

When excavation is required next to a pavement lane carrying traffic and the widening is not completed by the end of the work day, backfill against the edge of the pavement with at least a 3:1 slope using an acceptable material to support vehicular traffic. Carefully remove and dispose

of this material when work resumes. Backfilling pavement edges, and the materials required for the work will be subsidiary to this item.

Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

Provide rectangular shape (CW12-2P) Temporary Clearance Signs on all bridges where the existing vertical clearance has changed. Install Signs to the satisfaction of the Engineer prior to opening to traffic. Plywood sign blanks will have minimum dimensions of 84" X 12". Work performed and materials are subsidiary to this item.

Do not commence work on the road before sunrise. Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the engineer.

When moving unlicensed equipment on or across any pavement or public highways, protect the pavement from all damage using an acceptable method.

As approved by the Engineer, provide uniformed off duty police officers and squad cars during lane or ramp closures, night time work or other situations that indicate a need for additional traffic control to protect the traveling public or the construction workforce.

Provide documentation such as payroll, log sheets with signatures and badge number, or invoices from the government entity providing the officers for reimbursement. Complete the weekly tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided. Reimbursement will not be made for coordination fees charged by the police department.

Additional lanes may be closed during Off Peak Times or Lowest Times with written permission of the Engineer. Lane Closures during Off Peak Times may be started earlier or be extended later with written permission of the Engineer.

Traffic Control Plans with Lane Closures causing backups of 20 minutes or greater in duration will be modified by the Engineer.

Night work will not be allowed.

Contractor shall not have exclusive use of the right-of-way (ROW) and shall cooperate in the use of the ROW with the State, various public utility companies, their contractors, and other TxDOT roadway contractors as may be required to allow utility adjustments and road construction to be done by others. Should delays occur by virtue of the adjustments of these utilities, an extension may be granted at the discretion of the engineer.

Construct alleys, driveways and cross streets ½ at a time whenever possible to maintain access. Complete closure will require approval of the engineer and may be used only when alternate access is available to the public.

Construct temporary or permanent drainage systems prior to the placement of the temporary or permanent pavement whenever possible on this project.

Delineate the outside edge of sharp curves and roadway tapers with chevrons or other suitable traffic control devices as approved by the engineer.

Maintain work zone signs throughout the duration of construction for each phase of work until construction is complete or until it is replaced by other signing as required by the traffic control plan. Refer to the appropriate standard as required by TxDOT and the City of Dallas regarding sign mounting, striping and pavement markings.

Cover conflicting roadway signs with temporary construction signing wherever applicable.

Repair any damaged curb, storm drains or pavement that occurs during construction.

Protect existing water lines during construction within the project limits including the City of Dallas water mains. Sequence construction operations such that the construction of pavement, storm drains, ect... is complete with great caution so as not to disturb or disrupt the pipelines. Locations of the pipelines shown on the plans are approximate and must be field verified prior to construction.

Replace neighboring surfaces as soon as possible after utility adjustments and roadway work are complete.

Field verify all underground utilities and other underground obstructions prior to commencing construction activities. All locations shown are approximate and located as accurately as possible using the best available information.

Item 529:

Provide grooved joints at 10-foot intervals and $\frac{3}{4}$ inch expansion joint material for doweled curb at the same locations as on the existing pavement.

For Curb and Gutter sections, provide grooved joints at 10-foot intervals and $\frac{3}{4}$ inch expansion joint material at a maximum of 50-foot centers and at all radius points and inlets.

Curb and Gutter transitions will be paid for by the foot at the unit price for the corresponding curb or curb and gutter section.

Saw joints at the same location as on the existing pavement.

Item 530:

Provide Class HES concrete at driveways. Design Class HES to meet the requirements of Class P and a minimum average flexural strength of 400 psi or minimum average compressive strength of 26000 psi in 24 hr.

Item 536:

Use Class "B" concrete for concrete medians and directional islands.

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Item 610:

Contact the City of Dallas and Oncor Electric Delivery two weeks before starting any work on the existing lighting circuits effected by this project.

The luminaires to be removed under this item contain capacitors that may use polychlorinated biphenyl (PCB) as an insulating oil. PCB has been declared a hazardous substance by the EPA. Place all luminaires to be removed on the right of way. The Department will remove all capacitors from the luminaires. Assume all unlabeled capacitors to contain PCB. Take measures to prevent capacitor enclosures from being punctured or otherwise damaged. If PCB capacitors are ruptured, use proper procedures and personnel protective equipment, in accordance with federal and state guidelines.

Existing illumination circuits may be located within or adjacent to the project limits. Either verify with the Engineer or supply a video survey to the Engineer of all the lighting in and adjacent to the project limits before beginning work. Ensure that all assemblies operational at the beginning of construction are operational at the completion of the project. This work will be done at the contractor's expense.

Item 618:

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

Secure permission and approval from the proper authority prior to cutting into or removing any sidewalks or curbs for installation of this Item.

Place conduit under existing pavement by an approved boring method. Do not place boring pits closer than 2 feet from the edge of the pavement unless otherwise directed. Do not use water jetting. When conduits are bored, do not exceed 18 inches in the vertical and horizontal tolerances as measured from the intended target point.

Do not use a pneumatically driven device for punching holes beneath the pavement (commonly known as a "missile").

Furnish and install a non-metallic pull rope in conduit runs in excess of 50 feet.

Use a colored cleaner-primer on all PVC to PVC joints before application of PVC cement.

Seal all conduit ends with a permanently soft, non-toxic duct seal. Use a duct seal that does not adversely affect other plastic materials or corrode metals.

2" Schedule 80 PVC will be used at the power pole to supply electricity to underground services.

Item 620:

The equipment grounding conductor shall be identified by a continuous green colored jacket insulation. Grounded conductors (Neutral) shall be identified by a continuous white colored jacket. Ungrounded conductors (Hot) in a 120/240v or 240/480v system shall be identified by each pole or leg. For 240-volt branch circuit fed from 120/240 source and 480-volt branch circuit

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fed from 240/480 source, ensure one leg is identified by a continuous black colored jacket and the other leg by a continuous red colored jacket.

For Ped poles (Item 687) within the project, provide single-pole breakaway disconnects. Use Bussman HEBW, Littlefuse LEB, Ferraz-Shawmut FEB, or equal on ungrounded conductors. For all grounded conductors use Bussman HET, Littlefuse LET, Ferraz-Shawmut FEBN, or equal. These breakaway connectors have a white colored marking and a permanently installed solid neutral.

Item 624:

Slack conductors required by Standard Sheet ED(2)-03 will be subsidiary to Item 624.

Concrete removal required for installation of ground boxes will be subsidiary to Item 624.

Item 628:

Contact the appropriate utility company during the first three weeks of the project lead-time period to allow adequate time for any necessary utility adjustments, transformer installation, etc.

Blast clean service pole pedestals with Class "A" blast cleaning as defined in Item 446. This work will not be paid for directly, but is subsidiary to this Item.

Label the service enclosures indicating service address as well as all required information as shown on the Electrical Detail (ED) standard sheets. Labeling shall be silk screening or other acceptable method. This work will not be paid for directly, but is subsidiary to this Item.

When concrete for service pole foundations is required, use Class A in accordance with Item 421, "Hydraulic Cement Concrete", except consider the concrete subsidiary to Item 628 for payment purposes. When reinforcing steel for service pole foundations is required, it will be in accordance with Item 440, "Reinforcing Steel", except consider the steel subsidiary to Item 628 for payment purposes.

Use only white insulated wire for neutral wire.

Bill the electrical service power usage to the City of Dallas.

Items 644:

Prior to taking elevations to determine lengths for fabrication of sign posts and/or sign support towers, obtain verification of all proposed locations.

Provide field galvanizing and metallizing equipment, as per Item 445, at all times and make repairs to galvanized surfaces according to the above specification item at intervals as directed.

After sign supports with signs attached have been erected, wash individual units requiring cleaning with an approved cleaning solution to remove all grease, oil, dirt, smears, streaks, and other foreign particles.

All sign mounts shall have a clamp base system for all small roadside sign assemblies.

Provide six (6) sets of shop drawings for signs. The shop drawings shall conform to the details shown on the plans. The shop drawings shall show the details of the panels, wind beams, stiffeners, joint backing plates, splices, joint backing plates, splices, fasteners, brackets, and sign support connections. The shop drawings shall show letter types and sizes, interline spacing and message arrangements.

A 3 inch strip of red reflective sheeting shall be placed on all Do Not Enter sign assemblies. This sheeting shall be placed directly below the Do Not Enter sign for the entire length of the sign post facing wrong way traffic. This work will be considered subsidiary to Item 644.

Affix a sign identification decal to the back of all signs in accordance with Item 643.

Item 656:

Before placing the concrete for the controller foundation, coordinate with the City of Dallas to ensure that the anchor bolt spacing will match the anchor bolts and cabinet supplied by the city.

Form a 3/4-inch chamfer on the top edge of each signal pole foundation.

Probe for utilities and underground structures prior to drilling foundations. Foundations shall be paid for once regardless of extra work caused by obstructions.

Item 672:

White adhesive will be used on concrete pavements.

Item 677:

A water blasting method approved by the Engineer will be the only method allowed for the removal of permanent and temporary pavement markings.

Item 680:

Requirements for this Item include the following work, all of which are subsidiary to this Item:

1. Notify the City of Dallas Traffic Signal Supervisor at (214)670-5276 one week before beginning any work involving traffic signals.
2. Provide submittal literature for all traffic signal equipment before installation.
3. Install the traffic signal controller and cabinet supplied by the City of Dallas.
4. Install the controller cabinet in an orientation as directed.
5. Connect all field wiring to the controller assembly. The City of Dallas will assist in determining how the detection cables are to be connected, and will also program the controller for operation, hook up the malfunction management unit (MMU) or conflict monitor, detector units, and other equipment, and turn on the controller. Pick up the signal cabinet from the City of Dallas. Have a qualified technician on the project site to place the traffic signals in operation.
6. Install the sign panels supplied for mounting on mast arms. Furnish and install all other signs in accordance to Item 636. Furnish all mounting hardware for all signs. Mount signs with Astro-Sign Brac, Signfix aluminum channel, or equal as approved by the Engineer.
7. Use multi-tap ballasts (120/240 volts) for luminaires on signal poles.
8. Use qualified personnel to respond to and diagnose all trouble calls during the thirty-day test period. Repair any malfunction to Contractor-supplied signal equipment. Provide to the Engineer a local telephone number, not subject to frequent changes and available on a 24-

hour basis, for reporting trouble calls. Response time to reported calls must be less than 2 hours. Make appropriate repairs within 24 hours. Place a logbook in the controller cabinet and keep a record of each trouble call reported. Notify the Engineer of each trouble call. Do not clear the error log in the conflict monitor or MMU during the thirty-day test period without approval.

9. Prevent any damage to property owner's poles, fences, shrubs, mailboxes, etc. Protect all underground and overhead utilities and repair any damage. Provide access to all driveways during construction.

Item 682:

Install signal head attachments so that the wiring to each signal head passes from the mast arm through the attachment hardware to the signal head. Do not leave cable or wiring exposed.

Provide signal head attachments that allow for adjustment about the horizontal and vertical axis.

Provide polycarbonate signal heads and aluminum tubing in the following color: Federal Yellow #13538 of Federal Standard 595. Provide back plates, louvers, and the inside of visors with a flat black finish. Provide vented back plates for all traffic signal heads.

Turn down signal heads or cover with burlap or other material, as approved, until traffic signal is placed in operation.

Mount signal heads level and plumb and aimed as directed.

Item 684:

Provide stranded 14 AWG Type A signal cables.

Provide a separate multi-conductor signal cable (14 AWG) inside pedestal poles and signal poles from the terminal strip to each signal head as shown on the plans.

Identify each cable as shown on the plans (cable 1, etc.) with permanent marking labels (Panduit Type PLM standard single marker tie, Thomas&Betts Type 548M, or equal) at each ground box, pole base, and controller.

Item 686:

Provide 12 circuit Buchanan Type 112SN, Kulka Type 985-GP-12 CU, or equal terminal strips in the signal pole access compartment. Provide additional terminal strips of 8 circuits each when more than 12 circuits are required. The conductors for the Line and Load side of the terminal strip shall be identified with a plastic label with two straps per tag. The line side shall have each signal head, PED head, and push button identified on the tag.

Mark pole shafts and mast arms with the identification numbers from the plans to facilitate field-assembly. Identify pole shafts and mast arms by intersection for projects with multiple intersections.

Provide nuts on top and bottom (double nuts) of the base plate as shown on the plans.

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Set anchor bolts for mast arm signal poles and strain poles so that two are in tension and two are in compression. Obtain approval of anchor bolt placement before placing concrete.

Provide vertical clearance of 17 to 19 feet from the roadway to the lowest point of the signal head or mast arm. Place signal heads 40 feet minimum and 180 feet maximum from the stop line. If the nearest signal is more than 180 feet from the stop line, place a supplemental near-side signal head. Determine the field measurements and elevations from the actual field location of the poles, considering all above and below ground utilities and existing roadway elevations.

Provide vibration dampers for mast arms 28 feet to 48 feet in length. Install as shown on MA-DPD-12.

Item 1122:

Take all practicable precautions to prevent debris from being discharged into the Waters of Texas or a designated wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

Obtain from the Engineer a copy of the project's TPDES Storm Water Program and Notice of Intent or Construction Site Notice and Contractor Certification Statement. Laminate the sheets and bond with adhesive to 36" X 48" plywood sign blanks. Ensure the sheets remain dry. Apply Type C Blue reflective sheeting as the background and add the text "SW3P" in 5" white lettering, centered at the top. Attach the signs to approved temporary mounts and locate at each of the project limits or as directed by the Engineer. SW3P Signs, maintenance, and repostings will be subsidiary to Item 502.

Item 2061:

Contractor must obtain copies of the latest City of Dallas "General Design Standards" and "Dallas Water Utilities Addendum." One copy of each reference shall be kept on the project location at all times. All construction must conform with the current edition of each reference item.

A copy of the City of Dallas General Design Standards and Dallas Water Utilities Addendum may be obtained at City of Dallas, Water Utilities Department, 320 E. Jefferson Boulevard, Room 118, Dallas, TX 75203; Tel: 214-948-4500.

Contractor must obtain copies of the latest North Central Texas Council of Governments "Standard Specifications for Public Works Construction". One copy shall be kept at the project location at all times. All construction must conform with the current edition.

A copy of the "Standard Specifications for Public Works Construction" may be obtained from the North Central Texas Council of Government, 616 Six Flags Drive, Arlington, Texas, Telephone 817-640-3300.

Item 3267:

Design for a target Laboratory-molded density of 97.0% when using the TGC (Tex-204-F, Part I).

Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B. Provide the engineer the opportunity to witness all mixture design tests. The engineer may require a retest if not given the opportunity to witness.

Dilution of tack is not allowed.

Provide PG binder 64-22 in Type B mixture.

Provide PG binder 64-22 in Type C mixture.

Item 6007:

Salvage the existing traffic signals at SH 289 (Preston Rd) & Royal Ln. as shown on the plans. Salvage poles, cabinets, service poles and equipment, exposed conduit, and any other equipment as directed. Pull existing cable from conduit to be abandoned, and seal all conduit to be abandoned. This equipment remains the property of the City of Dallas, and is to be stockpiled as directed at the City of Dallas Signal Yard, 3204 Canton St. schedule material drop-off appointment in advance. All other material removed in this project will become the property of the Contractor. Dispose of material off the right of way in accordance with federal, state, and local regulations. Maintain the operation of the existing traffic signal until directed to remove it.

Item 6266:

Provide a Video Processor System (VPS) that can provide up to twenty-four (24) detector outputs to the controller from up to eight (8) camera/video processor units (C/VPU). Route the detector outputs through the detector panel and the detector test switches. For each C/VPU, provide a field of view with a minimum of twenty-four (24) virtual detection zones for vehicle detection. (Note: Use one processor system per intersection)

If not terminated through the backplane of the card rack, wire the outputs as follows:

Output	Detector	Output	Detector
1	1-1	13	Spare
2	6-1	14	Spare
3	6-2	15	Spare
4	5-1	16	Spare
5	2-1	17	Spare
6	2-2	18	Spare
7	3-1	19	Spare
8	8-1	20	Spare
9	8-2	21	Spare
10	7-1	22	Spare
11	4-1	23	Spare
12	4-2	24	Spare

Provide 4 cameras for this project.

Central control will not be required on this project.

Provide a set-up system. Load required set-up software onto all of the District Signal Shop's notebook computers and provide all necessary licensing. The Contractor does not provide computers as part of the set-up system.

Supply an interface software package that will operate with Windows 98, 2000, 7, NT and Vista.

Ensure the C/PU operational software is stored internally in flash memory and capable of being updated without the removal and replacement of memory devices.

Install the VIVDS detection zones as directed. Have qualified personnel on site at the time of the signal turn-on to assist with the installation of VIVDS detection zones.

If the camera locations shown in the plans do not allow for proper sight of the proposed detection zones, relocate the cameras as needed and as directed. This labor and material cost will not be paid separately, but is subsidiary to this item.

Provide Field Communications Link required by the manufacturer of the video detection system. These cables will be paid for as the type shown in the plans regardless of actual type of cable.

Item 8835:

If a traffic or pedestrian signal pole includes two APS units, or if the APS units cannot be installed a minimum of 10' apart, speech walk messages shall be used. Each speech walk message shall be programmed to clearly state the name of the roadway to be crossed as a result of activating that particular APS unit.

Verify the location of the push button assemblies and the direction of the arrows on the signs prior to installation.

The list of material below is for the Contractor's information only.
It is the responsibility of the Contractor to verify
all items and quantities listed below.

**LIST OF MATERIAL/LABOR
SUBSIDIARY TO ITEM 680**

DESCRIPTION	UNIT	QUANTITY
250W HPS LUMINAIRE	EA	2
INSTALL CONTROLLER/CABINET AND BBU	EA	1
TRAFFIC SIGNAL CONTROLLER FOUNDATION	CY	1
REGULATORY SIGN PANEL (R10-12,ETC)	EA	6

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INSTALL SINGLE STREET NAME SIGN PANEL	EA	4
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LIST OF MATERIAL
FURNISHED BY THE CITY OF DALLAS

DESCRIPTION	UNIT	QUANTITY
TRAFFIC SIGNAL CONTROLLER/CABINET	EA	1
BBU	EA	1
SINGLE NAME STREET NAME SIGNS	EA	4