

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 3

DATED 3/05/2009

Control	<u>2374-07-059</u>
Project	<u>CC 2374-7-59</u>
Highway	<u>IH 635</u>
County	<u>DALLAS</u>

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: CC 2374-7-59

CONTROL: 2374-07-059

COUNTY: DALLAS

LETTING: 03/10/2009

REFERENCE NO: 0304

PROPOSAL ADDENDUMS

PROPOSAL COVER

X BID INSERTS (SH. NO.: 2-11 thru 4-11)

X GENERAL NOTES (SH. NO.: G, I, M & N)

X SPEC LIST (SH. NO.: 1-3 thru 3-3)

SPECIAL PROVISIONS:

ADDED:

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: SEE CHANGES BELOW:

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS:

SHEET 2-11: ADDED ITEM 169-2001

SHEETS 3-11 AND 4-11: REVISED DUE TO SHIFTING.

GENERAL NOTES:

SHEET G: REVISED ITEM 132 NOTES.

SHEET I: REVISED ITEM 340 NOTES.

SHEET M: REVISED ITEM 512 NOTES.

SHEET N: REVISED DUE TO SHIFTING.

SPEC LIST:

SHEET 1-3: ADDED ITEM 169.

SHEET 2-3 & 3-3: REVISED DUE TO SHIFTING.

PLAN SHEETS:

SHEETS 6C, 6D & 6F: REPLACED SHEETS DUE TO GENERAL NOTES CHANGES ABOVE.

SHEETS 6G THRU 6I: REPLACED SHEETS DUE TO BID INSERT CHANGES ABOVE.

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	64.000	1
	104	2001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	2,781.000	2
	104	2009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	442.000	3
	104	2022		REMOVING CONC (CURB AND GUTTER) DOLLARS and CENTS	LF	1,501.000	4
	105	2020		REMOVING STAB BASE & ASPH PAV (12") DOLLARS and CENTS	SY	573.000	5
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	24,615.000	6
	132	2006		EMBANKMENT (FINAL)(DENS CONT)(TY C) DOLLARS and CENTS	CY	21,537.000	7
	134	2001		BACKFILL (TY A) DOLLARS and CENTS	STA	75.000	8
	160	2004		FURNISHING AND PLACING TOPSOIL (6") DOLLARS and CENTS	SY	10,200.000	9
	162	2002		BLOCK SODDING DOLLARS and CENTS	SY	10,200.000	10
	164	2007	002	BROADCAST SEED (PERM) (URBAN) (CLAY) DOLLARS and CENTS	SY	34,100.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	164	2009	002	BROADCAST SEED (TEMP) (WARM) DOLLARS and CENTS	SY	17,050.000	12
	164	2011	002	BROADCAST SEED (TEMP) (COOL) DOLLARS and CENTS	SY	17,050.000	13
	166	2002	001	FERTILIZER DOLLARS and CENTS	TON	3.000	14
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	3,500.000	15
	169	2001		SOIL RETENTION BLANKETS (CL 1) (TY A) DOLLARS and CENTS	SY	29,000.000	16
	204	2003		SPRINKLING (DUST CONTROL) DOLLARS and CENTS	MG	915.000	17
	216	2001		PROOF ROLLING DOLLARS and CENTS	HR	20.000	18
	260	2002	001	LIME (HYDRATED LIME (SLURRY)) DOLLARS and CENTS	TON	650.000	19
	260	2009	001	LIME TRT (EXST MATL)(10") DOLLARS and CENTS	SY	29,609.000	20
	305	2033		SALV, HAUL & STKPL RCL APH PV (0 TO 8") DOLLARS and CENTS	SY	8,101.000	21
	340	2011	002	D-GR HMA(METH) TY-B PG64-22 DOLLARS and CENTS	TON	6,516.000	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	360	2004	003	CONC PVMT (CONT REINF-CRCP)(11") DOLLARS and CENTS	SY	26,931.000	23
	360	2018	003	CURB (TYPE II) DOLLARS and CENTS	LF	9,793.000	24
	400	2003		STRUCT EXCAV (PIPE) DOLLARS and CENTS	CY	2,495.000	25
	400	2005		CEM STABIL BKFL DOLLARS and CENTS	CY	10.000	26
	402	2001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	2,124.000	27
	416	2023		DRILL SHAFT (SIGN MTS)(54 IN) DOLLARS and CENTS	LF	17.000	28
	432	2050		RIPRAP (CONC)(CL B)(5 IN) DOLLARS and CENTS	CY	37.000	29
	462	2008		CONC BOX CULV (5 FT X 4 FT) DOLLARS and CENTS	LF	120.000	30
	462	2011		CONC BOX CULV (6 FT X 4 FT) DOLLARS and CENTS	LF	280.000	31
	464	2003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	2,071.000	32
	464	2005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	393.000	33

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	ITEM NO	DESC CODE	S.P. NO.				
	464	2006		RC PIPE (CL III)(27 IN) and DOLLARS CENTS	LF	386.000	34
	465	2001	001	INLET (COMPL)(TY C) and DOLLARS CENTS	EA	11.000	35
	465	2003	001	INLET (COMPL)(TY H) and DOLLARS CENTS	EA	7.000	36
	465	2008	001	INLET EXT (TY E) and DOLLARS CENTS	EA	12.000	37
	466	2020		WINGWALL (FW-0)(HW=4 FT) and DOLLARS CENTS	EA	2.000	38
	474	2005		SLOT DRAIN (GAL STL)(18 IN) and DOLLARS CENTS	LF	90.000	39
	496	2002		REMOV STR (INLET) and DOLLARS CENTS	EA	1.000	40
	496	2004		REMOV STR (SET) and DOLLARS CENTS	EA	2.000	41
	496	2006		REMOV STR (HEADWALL) and DOLLARS CENTS	EA	2.000	42
	496	2007		REMOV STR (PIPE) and DOLLARS CENTS	LF	345.000	43
	500	2001	005	MOBILIZATION and DOLLARS CENTS	LS	1.000	44

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	ITEM NO	DESC CODE	S.P. NO.				
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	10.000	45
	506	2002	010	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	480.000	46
	506	2009	010	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	480.000	47
	506	2016	010	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	234.000	48
	506	2019	010	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	234.000	49
	506	2034	010	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	4,993.000	50
	508	2002		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	1,082.000	51
	512	2011	001	PORT CTB (DES SOURCE)(SAFETY SH)(TY 2) DOLLARS and CENTS	LF	8,190.000	52
	512	2020	001	PORT CTB (MOVE)(SAFETY SH)(TY 2) DOLLARS and CENTS	LF	4,230.000	53
	512	2038	001	PORT CTB (REMOVE)(SAFETY SH)(TY 2) DOLLARS and CENTS	LF	8,790.000	54

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	ITEM NO	DESC CODE	S.P. NO.				
	514	2001	001	PERM CONC TRF BARR (SAFETY SH)(TY 1) DOLLARS and CENTS	LF	175.000	55
	514	2017	001	PERM CONC TRF BARR (F-SHAPE)(TY 3) DOLLARS and CENTS	LF	185.000	56
	528	2007		LANDSCAPE PAVERS (TY I) DOLLARS and CENTS	SY	545.000	57
	531	2005		CURB RAMPS (TY 1) DOLLARS and CENTS	EA	4.000	58
	531	2010		CURB RAMPS (TY 7) DOLLARS and CENTS	EA	12.000	59
	536	2002		CONC MEDIAN DOLLARS and CENTS	SY	540.000	60
	540	2001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	970.000	61
	540	2005		TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	3.000	62
	544	2001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	3.000	63
	545	2004		CRASH CUSH ATTEN (INSTL)(FASTRACC) DOLLARS and CENTS	EA	1.000	64
	545	2037		CRASH CUSH ATTEN (INSTAL)(BEAT-SSCC) DOLLARS and CENTS	EA	1.000	65

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	ITEM NO	DESC CODE	S.P. NO.				
	545	2049		CRASH CUSH ATTEN (INSTL)(WORK ZONE) DOLLARS and CENTS	EA	1.000	66
	545	2050		CRASH CUSH ATTEN(MOV&RESET)(WORK ZONE) DOLLARS and CENTS	EA	1.000	67
	545	2051		CRASH CUSH ATTEN (REMOVE)(WORK ZONE) DOLLARS and CENTS	EA	1.000	68
	556	2008		PIPE UNDERDRAINS (TY 8) (6") DOLLARS and CENTS	LF	5,643.000	69
	636	2004	014	REFURBISH ALUMINUM SIGNS (TY A) DOLLARS and CENTS	EA	3.000	70
	644	2001		INS SM RD SN SUP&AM TY 10BWG(1) SA(P) DOLLARS and CENTS	EA	2.000	71
	644	2004		INS SM RD SN SUP&AM TY 10BWG(1) SA(T) DOLLARS and CENTS	EA	7.000	72
	644	2006		INS SM RD SN SUP&AM TY 10BWG(1) SA(U) DOLLARS and CENTS	EA	13.000	73
	644	2022		INS SM RD SN SUP&AM TY S80(1) SA(P) DOLLARS and CENTS	EA	3.000	74
	644	2027		INS SM RD SN SUP&AM TY S80(1) SA(U) DOLLARS and CENTS	EA	3.000	75

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	ITEM NO	DESC CODE	S.P. NO.				
	644	2042		INS SM RD SN SUP&AM TY S80(2) SA(P) DOLLARS and CENTS	EA	1.000	76
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	9.000	77
	650	2172		RELOCATE EXISTING OVERHD SIGN SUP DOLLARS and CENTS	EA	1.000	78
	650	2173		REMOVE OVERHD SIGN SUP DOLLARS and CENTS	EA	1.000	79
	658	2249		INSTL DEL ASSM (D-SW)SZ 1(RCR)GF2 DOLLARS and CENTS	EA	10.000	80
	658	2258		INSTL DEL ASSM (D-SW)SZ (TYC)CTB DOLLARS and CENTS	EA	3.000	81
	658	2263		INSTL DEL ASSM (D-SY)SZ 1(FLX)GND DOLLARS and CENTS	EA	20.000	82
	658	2273		INSTL DEL ASSM (D-SY)SZ 1(RCR)GF2 DOLLARS and CENTS	EA	4.000	83
	658	2277		INSTL DEL ASSM (D-SY)SZ (TYC)CTB DOLLARS and CENTS	EA	3.000	84
	658	2287		INSTL DEL ASSM (D-SR)SZ 1(RCR)GF2 DOLLARS and CENTS	EA	6.000	85
	658	2315		INSTL OM ASSM (OM-2Y)(WC) GND DOLLARS and CENTS	EA	10.000	86

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	ITEM NO	DESC CODE	S.P. NO.				
	658	2329		INSTL DEL ASSM (D-SW)SZ 1(FLX)GND DOLLARS and CENTS	EA	20.000	87
	662	2064		WK ZN PAV MRK REMOV (W) 4" (BRK) DOLLARS and CENTS	LF	13,430.000	88
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	13,665.000	89
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	8,090.000	90
	666	2003		REFL PAV MRK TY I (W) 4" (BRK)(100MIL) DOLLARS and CENTS	LF	20,474.000	91
	666	2012		REFL PAV MRK TY I (W) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	14,761.000	92
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	1,363.000	93
	666	2042		REFL PAV MRK TY I (W) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	351.000	94
	666	2111		REFL PAV MRK TY I (Y) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	12,710.000	95
	666	2123		REFL PAV MRK TY I (Y) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	1,716.000	96
	666	2126		REFL PAV MRK TY I (Y) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	1,384.000	97

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	ITEM NO	DESC CODE	S.P. NO.				
	666	2189		PAVEMENT SEALER 4" DOLLARS and CENTS	LF	22,220.000	98
	666	2191		PAVEMENT SEALER 8" DOLLARS and CENTS	LF	3,079.000	99
	666	2193		PAVEMENT SEALER 12" DOLLARS and CENTS	LF	1,735.000	100
	672	2022	034	TRAFFIC BUTTON TY II-C-R DOLLARS and CENTS	EA	520.000	101
	672	2024	034	TRAFFIC BUTTON TY W DOLLARS and CENTS	EA	140.000	102
	677	2001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	53,720.000	103
	678	2001		PAV SURF PREP FOR MRK (4") DOLLARS and CENTS	LF	47,945.000	104
	678	2003		PAV SURF PREP FOR MRK (8") DOLLARS and CENTS	LF	3,079.000	105
	678	2004		PAV SURF PREP FOR MRK (12") DOLLARS and CENTS	LF	1,735.000	106
	6834	2002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	1.000	107

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	7446	2001		REM & INSTALL EXIST SIGN PAN- ELS(OVRHD) and DOLLARS CENTS	EA	2.000	108

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 1: Soil Constants Requirements				
Item	Description	Plasticity Index		Note
		Max	Min	
132	Embk(Dens Cont)(Type C)	40	8	1

Note 1: Material excavated from the project must meet the PI requirements when used in the top 10 feet of embankment that supports the pavement structure or other locations shown in the plans. Do not use shale and obtain approval to incorporate shaley clay produced by the construction project.

Table 2: Basis of Estimate for Permanent Construction						
Item	Description	Thickness	Rate		Quantity	
162	Block Sod	N/A			10,200	SY
164	Broadcast Seed	N/A			34,100	SY
166	Fertilizer (12-6-6)	N/A	850	Lbs/Ac	3	Ton
168	Vegetative Watering	N/A	250	Mg/Ac	1,750	Mg
204	Sprinkling (dust cont)	N/A	14.30	Mg/Sta	915	Mg
260	Commercial Lime Slurry			6% by wt	650	Ton
340	Hot Mix Asphalt (Ty B)	4"	110	Lbs/SY/In	6,516	Ton
Note: (1) Base material weight based on 1.50 Ton/CY (dry- compacted) (2) Asphalt weight based on 110 Lbs/SY/inch (3) Subgrade weight based on_1.35 Ton/CY (dry- compacted)						

Table 3: Basis of Estimate for Temporary Erosion Control Items					
Item	Description	Rate		Quantity	
166	Fert (12-6-6)	850	Lbs /Ac	34,100	Ton
168	Vegetative Watering	250	Mg/Ac	1,750	Mg

Table 4: Hamburg Wheel Test Requirements			
High-Temperature Binder Grade	Test Method	Laboratory Mixture Design or Trial Batch	Production and Placement Test ¹
		Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F	Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F
PG 64-22 or lower	Tex-242-F	7,000	7,000

1. The Engineer may accept if no more than 1 of the 5 most recent Hamburg Wheel tests is below the specified number of passes and the failing test is no more than 2000 passes below the specified number of passes.

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 approximately 18 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

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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).

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

Place survey monuments, provided by the department, at points indicated and as detailed in the plans or as directed. Furnish surface coordinates and the elevation of the set monument and an azimuth from the monument to some prominent physical feature, preferably another survey monument on the project. This work will not be paid for directly, but will be considered subsidiary to the various bid items.

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 communication & control, call 1-800-DIG-TESS (1-800-344-8377), TxDOT Traffic Signal Office (214-320-6682), and TxDOT Freeway Management Office (214-320-4439) 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.

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.

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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.

Meet weekly with the engineer to notify him or her of planned work for the upcoming week.

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

Submit questions prior to letting by e-mail, fax or phone. The questions will be answered in the same format in which they are received.

e-mail: dtaylo3@dot.state.tx.us

fax: (972) 479-1696.

phone: (972) 479-9747.

A file containing these questions and answers will be available for review at the area engineer's office located at 12000 Greenville Ave, Dallas, Texas 75243.

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.

Item 8:

This Project will be a Standard Workweek in accordance with Article 8.3.A.4.

Nighttime is allowed in accordance with Article 8.3.C.2.b.

Item 100:

Remove and replace the existing roadway signs as shown on the plans, or as directed, during construction within the right of way.

The limits of preparing right of way will be measured from Sta. 273+61 to Sta. 337+62 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.

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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.

All other concrete removal will be paid for under Item 104.

The removal of other types of obstructions encountered will be paid for under Item 100, if applicable.

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.

Use an approved laboratory to perform tests for sulfate and plasticity index and provide results on sources outside the right of way at no additional expense to the department. Test soil for sulfate levels in accordance with Tex-145-E. 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 material produced by the construction project for specification requirements or material sources specified in the plans.

When lime treatment is allowed to reduce Plasticity Index, apply lime slurry in accordance with Item 260, "Lime Treatment (Road-Mixed)." Furnish material containing sulfate at or below the threshold of 5000 parts per million (ppm). For material with sulfate levels greater than 3000 ppm, allow the mixture to mellow for at least three days, or as directed. The engineer will test material placed or excavated to a depth of one foot below and laterally to one foot outside the proposed treatment limit. Notify the engineer 48 hours before lime treatment of the material.

Item 132:

Earth embankment Type C, is mainly composed of material other than shale. Furnish material that is free from vegetation or other objectionable material and that conforms to the requirements of Table 1 (Sheet B). If necessary, add lime slurry in accordance with Item 260, "Lime Treatment (Road-Mixed)" in order to meet these requirements. Use Tex-121-E, figure 1, page 5 to calculate the amount of lime required. Furnish material containing sulfate at or below the threshold of 5000 parts per million (ppm). For material with sulfate levels greater than 3000 ppm, allow the mixture to mellow for at least three days, or as directed. Test soil for sulfate levels in accordance with Tex-145-E. Use an approved laboratory to perform tests for sulfate and plasticity index and provide results on sources outside the right of way to the department. Contact the engineer for a list of approved laboratories. Notify the engineer 48 hours before sampling and testing material. Perform split-sample verification testing with the engineer when directed. The engineer will sample and test material produced by the construction project for

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specification requirements or material sources specified in the plans. The engineer will test material placed or excavated to a depth of one foot below and laterally to one foot outside the proposed treatment limit. Lime treatment and testing of this material will not be paid for directly, but will be considered subsidiary to this item.

Shale is not an acceptable material for embankment. Do not use shaley clays in embankment unless approved in writing.

Perform vertical tracking on slopes to temporarily stabilize soil. Provide equipment with a track undercarriage capable of producing a linear soil impression measuring at least 12 inches in length by 2 to 4 inches in width by ½ to 2 inches in depth. Do not exceed 12 inches between track cleats. Install continuous linear track impressions where the minimum 12 inches in length impressions is perpendicular to the direction of water flow. This will not be paid for directly but considered subsidiary to this item.

If high sulfate content soils are encountered, imported clays that are similar or accepted by the Engineer of record should replace high sulfate content soils after the imported soils have been tested for sulfate content and are deemed within acceptable sulfate content limits. Any imported clay soils should also be stabilized with a minimum of 6 percent, by weight, hydrated lime. Additionally, in areas where high sulfate content soils are encountered, after the minimum required section of soils has been removed, it is recommended that a buffer zone be constructed beneath this section to prevent adverse affects of lime stabilization on any sulfate containing soils below. The buffer zone should be a minimum of 18 inches thick comprised of natural or imported soils having a Plasticity Index (PI) less than 25 and a sulfate content less than 3000 parts per million. Lime stabilization should be carried out in accordance with Item 260.

Item 134:

Start backfilling pavement edges as soon as possible after the surface course is started.

Backfill and compact the pavement edges to produce a smooth surface adjacent to the pavement with no vertical edges.

Use Type "A" material to backfill pavement edges. Type "A" material shall consist of suitable material that when compacted will support the pavement edge. RAP is considered suitable Type "A" material.

Item 160:

Sequence construction operations to salvage topsoil from one location and spread on areas ready to receive topsoil. Keep stockpiling of topsoil to a minimum.

Use fertile clay or loam from the project site not more than two feet below natural grade.

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Item 260:

Furnish and distribute MS-2 smoothly and evenly at the rate of 0.20 gallons per square yard to cure lime, as directed.

Provide Commercial Hydrated Lime Slurry and apply lime by slurry placement method.

Items 305 :

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.

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

Separate the asphalt pavement from the base material. Stockpile the asphalt pavement at a suitable location within the project limits. Place the asphalt pavement material in a stockpile that meets the dimensions and requirements designated by the engineer.

Stockpile materials in uniform piles up to 15 feet in height unless otherwise instructed. Furnish adequate equipment at the stockpile to keep and leave the materials in a neat and orderly manner.

Properly dispose of unsalvageable material at your own expense.

Slope longitudinal faces greater than 1 ¼" to a minimum of 1:1 slope at the end of the work period if traffic is able to traverse the joint. Slope transverse tapers to a minimum of 36:1 at the end of the workday. Remove the taper prior to continuing the milling.

For open shoulder sections, plane the asphalt so the flow of water is not impeded at the shoulder edge or across the surface. Added planing up to three feet in width outside the lines and grades of the plans, necessary to provide proper drainage, will be subsidiary to the bid item.

Item 340:

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.

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Hamburg Wheel test requirements for mixes with PG 64-22 shall meet Table 4. The use of RAP is permitted to meet these requirements.

Item 360:

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 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.

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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.

Provide Class HES concrete. 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 2600 psi in 24 hr.

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 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.

Provide a minimum of one core per bent, regardless of placement method.

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.

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Item 496:

Any 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.

All other concrete removal and structures of the types specified in the plans will be paid for under the pertinent bid item. The removal of other types of obstructions encountered will be paid for under Item 100, if applicable.

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.

Erect a Type III barricade immediately in front of or at each end of all stockpiles that are less than 30 feet from the edge of any traveled lane. Place one Type 2 Object Marker (OM-2Y) alongside the stockpile for every 100 feet of stockpile length.

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 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.

Freeway Lane Closures				
Category of Work	Number of Rdwy Lanes per direction	Peak Times Monday-Friday 6:00 am - 9:00 am 3:30 pm - 7:00 pm Major Events and Major Holidays**	Off Peak Times Monday-Friday 9:00 am - 3:30pm 7:00 pm - 10:30 pm and Saturday	Lowest Volume Time Monday-Friday 10:30 pm to 6:00 am and Sunday
Placement of CTB & Bridge Beams, Pavement Markings, Full Depth Roadway Repair, Bridge or Similar Demolitions*	5	None	2	3
	4	None	2	3
	3	None	1	2
	2	None	1	2
Adjacent Construction, Lanes for Construction Traffic or Similar Operations	5	None	1	2
	4	None	1	2
	3	None	1	1
	2	None	None	1
* Provide a traffic control plan where bridge demolition cannot be accomplished with lane closures. Freeway closures will only be done during Lowest Volume Times. ** Major Holidays are defined under Item 1.82 and also include the Easter Weekend.				

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.

Work in other areas of the project is not restricted to this time frame.

Item 504:

Furnish one Field Office and a Laboratory (Type B) at the project site, one Field Laboratory (Type A) at the concrete batch plant and one Asphalt Mix Control Laboratory (Type D) at the asphalt mixing plant.

Provide one local phone line to the field office. Supply one phone jack and one telephone per each room in the field office. The cost of the phone installation and various monthly phone service charges will be the contractor's responsibility.

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Parking shall be provided for 4 vehicles, chain link fencing will be provided around the field office and parking areas.

Provide an all in one printer/scanner/fax/copier with software that is compatible with TxDOT equipment, cost not in excess of \$300. This is subsidiary to the bid item.

Provide a 10 lb. Type A, B, or C fire extinguisher for each room of all facilities furnished under this item.

Item 506:

When demolishing a structure/s that span the Waters of Texas or a designated wetland, take all practicable precautions to prevent debris from being discharged into the water or within the boundaries of the 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.

SW3P Maintenance Reports are made every seven calendar days. Make corrections as soon as possible before the next anticipated rain event or within seven calendar days after being able to enter the site to work for each BMP. A BMP site being "Too Wet to Work" is the only acceptable reason for not accomplishing the corrections with the seven calendar day time limit and should be thoroughly documented on Form 2118. If maintenance corrections are not made within this time frame then all work will cease, time charges will continue until SW3P is brought into compliance and is documented on Form 2118 after TxDOT review.

This in no way releases the contractor of liability for noncompliance.

Obtain from the Engineer a copy of the project's TPDES Storm Water Program and Notice of Intent or Construction Site Notice. 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 512:

Contact Daniel Kendrick at (972) 479-9747 to pick-up concrete traffic barrier from the storage area located at Luna Road. Hardware connection for the concrete traffic barrier is available. When the project is final the concrete traffic barrier and the hardware will become the property of the Contractor. Remove damaged barrier from the project. This work is subsidiary to Item 512.

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Furnish pre-cast F Shape Barrier with drainage slots as detailed on the Concrete Safety Barrier Standards. Submit for approval the type of barrier joint connection proposed for the project.

Item 536:

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

Item 540:

Furnish one type of post throughout the project except as specifically noted in the plans.

Item 556:

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

Place bell and spigot type pipe with an open joint of approximately $\frac{3}{4}$ inch.

In the event that Type 5 Underdrain Pipe is bid, make the connection as shown in the plans. The cost of making the connection will be considered subsidiary to this item.

The requirements for decantation of filter material are deleted for this project.

Item 585:

Use Surface Test Type A on all intersections and driveways.

Use Surface Test Type B pay adjustment schedule 3 on the travel lanes.

Use Surface Test Type B pay adjustment schedule 3 on the service roads.

Use Surface Test Type B pay adjustment schedule 3 on the ramps.

Item 666:

Provide Type III Glass Traffic Beads that meet the requirements of Departmental Materials Specifications DMS-8290.

Item 672:

Black adhesive will be used on asphalt pavements. White adhesive will be used on concrete pavements.

Item 677:

Grinding of pavements is not allowed to eliminate pavement markings.
Placement of paint or thermo is not allowed to eliminate pavement markings.

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PROJECT : CC 2374-7-59
HIGHWAY : IH 635
COUNTY : DALLAS

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 JUNE 1, 2004.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (103)
ITEM 104 REMOVING CONCRETE
ITEM 105 REMOVING STABILIZED BASE AND ASPHALT PAVEMENT
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (100) (204) (210) (216) (400)
ITEM 134 BACKFILLING PAVEMENT EDGES (162) (166) (168) (300) (314)
ITEM 160 TOPSOIL
ITEM 162 SODDING FOR EROSION CONTROL (166) (168)
ITEM 164 SEEDING FOR EROSION CONTROL (162) (166) (168)
ITEM 166 FERTILIZER
ITEM 168 VEGETATIVE WATERING
ITEM 169 SOIL RETENTION BLANKETS
ITEM 204 SPRINKLING
ITEM 216 PROOF ROLLING (210)
ITEM 260 LIME TREATMENT (ROAD-MIXED) (105) (132) (204) (210) (216)
(247) (300) (310) (520)
ITEM 305 SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALT
PAVEMENT
ITEM 340 DENSE-GRADED HOT-MIX ASPHALT (METHOD) (210) (300) (301)
(320) (520) (585)
ITEM 360 CONCRETE PAVEMENT (300) (420) (421) (438) (440) (529) (585)
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132) (401) (420)
(421)
ITEM 402 TRENCH EXCAVATION PROTECTION
ITEM 416 DRILLED SHAFT FOUNDATIONS (420) (421) (440) (448)
ITEM 432 RIPRAP (247) (420) (421) (427) (431) (440)
ITEM 462 CONCRETE BOX CULVERTS AND STORM DRAINS (400) (420) (421)
(424) (440) (464) (476)
ITEM 464 REINFORCED CONCRETE PIPE (400) (476)

- ITEM 465 MANHOLES AND INLETS (400)(420)(421)(440)(471)
- ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(430)(440)(464)
- ITEM 474 SLOTTED DRAIN (400)(445)(460)
- ITEM 496 REMOVING STRUCTURES (430)
- ITEM 500 MOBILIZATION
- ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
- ITEM 504 FIELD OFFICE AND LABORATORY
- ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS (432)(556)
- ITEM 508 CONSTRUCTING DETOURS
- ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (420)(421)(424)(440)(442)
- ITEM 514 PERMANENT CONCRETE TRAFFIC BARRIER (400)(416)(420)(421)(424)(440)(442)(448)
- ITEM 528 COLOR TEXTURED CONCRETE AND LANDSCAPE PAVERS (132)(247)(420)(421)(440)
- ITEM 531 SIDEWALKS (104)(360)(420)(421)(440)(530)
- ITEM 536 CONCRETE MEDIANS AND DIRECTIONAL ISLANDS (420)(421)(427)(440)(529)
- ITEM 540 METAL BEAM GUARD FENCE (421)(445)(529)(542)(544)
- ITEM 544 GUARDRAIL END TREATMENTS
- ITEM 545 CRASH CUSHION ATTENUATORS (421)
- ITEM 556 PIPE UNDERDRAINS (402)(432)
- ITEM 636 ALUMINUM SIGNS (643)
- ITEM 644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (421)(440)(441)(442)(445)(634)(636)(643)(656)
- ITEM 650 OVERHEAD SIGN SUPPORTS (416)(420)(421)(441)(442)(445)(449)(618)
- ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
- ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(668)(672)(677)
- ITEM 666 REFLECTORIZED PAVEMENT MARKINGS (316)(318)(662)(677)(678)
- ITEM 672 RAISED PAVEMENT MARKERS (677)(678)
- ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)(302)(316)
- ITEM 678 PAVEMENT SURFACE PREPARATION FOR MARKINGS (677)

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

SPECIAL LABOR PROVISIONS FOR STATE PROJECTS (000---007)

WAGE RATES

- SPECIAL PROVISION "PARTNERING" (000---002)
- SPECIAL PROVISION "SMALL BUSINESS ENTERPRISE IN STATE FUNDED CONSTRUCTION" (000---010)
- SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--1002)
- SPECIAL PROVISION "DEPARTMENT DIVISION MAILING AND PHYSICAL ADDRESS" (000---011)
- SPECIAL PROVISION TO ITEM 1 (001---005)
- SPECIAL PROVISION TO ITEM 2 (002---013)
- SPECIAL PROVISION TO ITEM 4 (004---012)
- SPECIAL PROVISION TO ITEM 5 (005---004)

SPECIAL PROVISION	TO ITEM	6	(006---030)
SPECIAL PROVISIONS	TO ITEM	7	(007---213) (007---445)
SPECIAL PROVISIONS	TO ITEM	9	(009---012) (009---015)
SPECIAL PROVISION	TO ITEM	100	(100---002)
SPECIAL PROVISION	TO ITEM	164	(164---002)
SPECIAL PROVISION	TO ITEM	166	(166---001)
SPECIAL PROVISION	TO ITEM	247	(247---020)
SPECIAL PROVISION	TO ITEM	260	(260---001)
SPECIAL PROVISION	TO ITEM	340	(340---002)
SPECIAL PROVISION	TO ITEM	360	(360---003)
SPECIAL PROVISION	TO ITEM	420	(420---002)
SPECIAL PROVISION	TO ITEM	421	(421---031)
SPECIAL PROVISION	TO ITEM	424	(424---001)
SPECIAL PROVISION	TO ITEM	431	(431---001)
SPECIAL PROVISION	TO ITEM	440	(440---001)
SPECIAL PROVISION	TO ITEM	441	(441---002)
SPECIAL PROVISION	TO ITEM	442	(442---005)
SPECIAL PROVISION	TO ITEM	465	(465---001)
SPECIAL PROVISION	TO ITEM	500	(500---005)
SPECIAL PROVISION	TO ITEM	502	(502---033)
SPECIAL PROVISION	TO ITEM	506	(506---010)
SPECIAL PROVISION	TO ITEM	512	(512---001)
SPECIAL PROVISION	TO ITEM	514	(514---001)
SPECIAL PROVISION	TO ITEM	636	(636---014)
SPECIAL PROVISION	TO ITEM	672	(672---034)

SPECIAL SPECIFICATIONS:

ITEM 6834 PORTABLE CHANGEABLE MESSAGE SIGN
 ITEM 7446 REMOVE AND INSTALL EXISTING SIGN PANELS (634) (636) (652)
 (654)

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.