

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 6/28/2022

Control	0374-06-022
Project	F 2022(758)
Highway	US 62
County	HUDSPETH

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: F 2022(758)

CONTROL: 0374-06-022

COUNTY: HUDSPETH

LETTING: 06/29/2022

REFERENCE NO: 0627

PROPOSAL ADDENDUMS

-
- PROPOSAL COVER
- BID INSERTS (SH. NO.: 1 AND 10)
- GENERAL NOTES (SH. NO.: A AND S)
- SPEC LIST (SH. NO.: 1)
- SPECIAL PROVISIONS:
- ADDED:
- DELETED:
- SPECIAL SPECIFICATIONS:
- ADDED:
- DELETED:
- OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

***** BID INSERTS *****

BID ITEMS: ADDED ITEM 316-6001, 316-6224 AS ALTERNATIVE BID 1A.
REVISED ITEM 3077-6075 AS ALTERNATIVE BID 1A.

***** GENERAL NOTES *****

SHEET A: ADDED ITEM 316 IN TABLE 1.

SHEET S: DELETE SEAL COAT ITEMS FROM TABLE UC AND REVISED GENERAL
NOTE FOR ITEM 3085

***** SPECIFICATIONS LIST *****

SHEET 1 OF 4: ADDED ITEM 316 (210) (300) (302) (3096)

***** PLAN SHEETS *****

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET 15 AND 15I: REFER TO GENERAL NOTES CHANGES AS NOTED ABOVE

SHEET 16B AND 16C (ESTIMATE AND QUANTITY SHEETS): ADDED ITEM 316-6001 AND 316-6224 AS ALTERNATIVE BID 1A. REVISED ITEM 3077-6075 AS ALTERNATIVE BID 1A.

SHEET 21 (SUMMARY SHEET): ADDED ITEM 316-6001, 316-6224 AND 3077-6075 AS ALTERNATIVE BID 1A. ADDED BASE BID TO ITEM 3085-6001.

Printed Name of Authorized Signer: _____

Signature of Authorized Signer: _____ Date: _____

PROJECT F 2022(758)
 COUNTY HUDSPETH

Proposal Sheet
 TxDOT
 FORM 234-B I-61-5M

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	6002		PREPARING ROW DOLLARS and CENTS	STA	843.000	1
	104	6009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	242.000	2
	106	6002		OBLITERATING ABANDONED ROAD DOLLARS and CENTS	SY	2,822.000	3
	110	6001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	23,109.000	4
	110	6003		EXCAVATION (SPECIAL) DOLLARS and CENTS	CY	2.000	5
	132	6002		EMBANKMENT (FINAL)(DENS CONT)(TY A) DOLLARS and CENTS	CY	8,208.000	6
	134	6004		BACKFILL (TY A OR B) DOLLARS and CENTS	STA	844.000	7
	150	6003		BLADING DOLLARS and CENTS	LF	54,435.000	8
	247	6061	003	FL BS (CMP IN PLC)(TYA GR1-2) (6") DOLLARS and CENTS	SY	103,002.000	9
	310	6014		PRIME COAT (SS-1H) DOLLARS and CENTS	GAL	18,741.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	314	6009	001	EMULS ASPH (EROSN CONT)(MULTI) DOLLARS and CENTS	GAL	7,643.000	11
	351	6002		FLEXIBLE PAVEMENT STRUCTURE REPAIR(6") DOLLARS and CENTS	SY	2,500.000	12
	354	6069		PLANE ASPH CONC PAV (0"- 2 1/2") DOLLARS and CENTS	SY	1,166.000	13
	354	6134		PLANE ASPH CONC PAV (0" TO 1/2" MICRO) DOLLARS and CENTS	SY	10,000.000	14
	400	6008		CUT & RESTORE ASPH PAVING DOLLARS and CENTS	SY	1,071.000	15
	401	6001		FLOWABLE BACKFILL DOLLARS and CENTS	CY	1,605.000	16
	402	6001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	509.000	17
	403	6001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	2,898.000	18
	416	6005		DRILL SHAFT (42 IN) DOLLARS and CENTS	LF	42.000	19
	416	6029		DRILL SHAFT (RDWY ILL POLE) (30 IN) DOLLARS and CENTS	LF	16.000	20
	432	6001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	93.500	21
	432	6006		RIPRAP (CONC)(CL B) DOLLARS and CENTS	CY	.700	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	432	6026		RIPRAP (STONE COMMON)(DRY)(18 IN) DOLLARS and CENTS	CY	97.000	23
	432	6045		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	49.000	24
	462	6003	002	CONC BOX CULV (4 FT X 2 FT) DOLLARS and CENTS	LF	86.000	25
	464	6003	001	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	368.000	26
	464	6005	001	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	2,519.000	27
	464	6008	001	RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	1,142.000	28
	466	6101		HEADWALL (CH - PW - 0) (DIA= 36 IN) DOLLARS and CENTS	EA	1.000	29
	466	6178		WINGWALL (PW - 1) (HW=3 FT) DOLLARS and CENTS	EA	1.000	30
	466	6182		WINGWALL (PW - 1) (HW=7 FT) DOLLARS and CENTS	EA	1.000	31
	467	6005		SET (TY I) (24 IN) (3: 1) (C) DOLLARS and CENTS	EA	10.000	32
	467	6363		SET (TY II) (18 IN) (RCP) (6: 1) (P) DOLLARS and CENTS	EA	10.000	33
	467	6388		SET (TY II) (24 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	56.000	34

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	467	6448		SET (TY II) (36 IN) (RCP) (3: 1) (C) DOLLARS and CENTS	EA	31.000	35
	480	6001		CLEAN EXIST CULVERTS DOLLARS and CENTS	EA	10.000	36
	496	6007		REMOV STR (PIPE) DOLLARS and CENTS	LF	3,824.000	37
	500	6001		MOBILIZATION DOLLARS and CENTS	LS	1.000	38
	502	6001		BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	21.000	39
	506	6003	005	ROCK FILTER DAMS (INSTALL) (TY 3) DOLLARS and CENTS	LF	639.000	40
	506	6011	005	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	639.000	41
	506	6020	005	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	311.000	42
	506	6024	005	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	311.000	43
	506	6038	005	TEMP SEDMT CONT FENCE (INSTALL) DOLLARS and CENTS	LF	42,704.000	44
	506	6039	005	TEMP SEDMT CONT FENCE (REMOVE) DOLLARS and CENTS	LF	42,704.000	45
	506	6041	005	BIODEG EROSN CONT LOGS (INSTL) (12") DOLLARS and CENTS	LF	1,410.000	46

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	506	6043	005	BIODEG EROSN CONT LOGS (REMOVE) DOLLARS and CENTS	LF	1,410.000	47
	508	6001		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	1,931.000	48
	512	6017		PORT CTB (DES SOURCE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	1,260.000	49
	512	6029		PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	48,720.000	50
	512	6041		PORT CTB (STKPL)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	1,260.000	51
	530	6006		DRIVEWAYS (SURF TREAT) DOLLARS and CENTS	SY	462.000	52
	530	6009		TURNOUTS (SURF TREAT) DOLLARS and CENTS	SY	289.000	53
	533	6003		RUMBLE STRIPS (SHOULDER) ASPHALT DOLLARS and CENTS	LF	165,545.000	54
	533	6004		RUMBLE STRIPS (CENTERLINE) ASPHALT DOLLARS and CENTS	LF	166,872.000	55
	540	6001	001	MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	450.000	56
	540	6033	001	MTL BM GD FEN (LONG SPAN SYSTEM) DOLLARS and CENTS	EA	2.000	57
	544	6001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	6.000	58

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	545	6003		CRASH CUSH ATTEN (MOVE & RESET) DOLLARS and CENTS	EA	116.000	59
	545	6005		CRASH CUSH ATTEN (REMOVE) DOLLARS and CENTS	EA	6.000	60
	545	6019		CRASH CUSH ATTEN (INSTL)(S)(N)(TL3) DOLLARS and CENTS	EA	6.000	61
	560	6013		MAILBOX INSTALL-M (TWW-POST) TY 4 DOLLARS and CENTS	EA	13.000	62
	610	6004		RELOCATE RD IL ASM (TRANS-BASE) DOLLARS and CENTS	EA	2.000	63
	618	6023		CONDT (PVC) (SCH 40) (2") DOLLARS and CENTS	LF	490.000	64
	618	6024		CONDT (PVC) (SCH 40) (2") (BORE) DOLLARS and CENTS	LF	489.000	65
	620	6008		ELEC CONDR (NO.8) INSULATED DOLLARS and CENTS	LF	2,475.000	66
	620	6010		ELEC CONDR (NO.6) INSULATED DOLLARS and CENTS	LF	195.000	67
	620	6012		ELEC CONDR (NO.4) INSULATED DOLLARS and CENTS	LF	1,032.000	68
	624	6002		GROUND BOX TY A (122311)W/APRON DOLLARS and CENTS	EA	8.000	69
	624	6028		REMOVE GROUND BOX DOLLARS and CENTS	EA	2.000	70

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	47.000	71
	644	6004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	9.000	72
	644	6005		IN SM RD SN SUP&AM TY10BWG(1)SA(T- 2EXT) DOLLARS and CENTS	EA	1.000	73
	644	6007		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	6.000	74
	644	6030		IN SM RD SN SUP&AM TYS80(1)SA(T) DOLLARS and CENTS	EA	3.000	75
	644	6031		IN SM RD SN SUP&AM TYS80(1)SA(T-2EXT) DOLLARS and CENTS	EA	1.000	76
	644	6033		IN SM RD SN SUP&AM TYS80(1)SA(U) DOLLARS and CENTS	EA	6.000	77
	644	6034		IN SM RD SN SUP&AM TYS80(1)SA(U-1EXT) DOLLARS and CENTS	EA	6.000	78
	644	6035		IN SM RD SN SUP&AM TYS80(1)SA(U-2EXT) DOLLARS and CENTS	EA	2.000	79
	644	6037		IN SM RD SN SUP&AM TYS80(1)SA(U-WC) DOLLARS and CENTS	EA	6.000	80
	644	6076		REMOVE SM RD SN SUP&AM DOLLARS and CENTS	EA	72.000	81
	658	6047		INSTL OM ASSM (OM-2Y)(WC)GND DOLLARS and CENTS	EA	72.000	82

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	658	6060		REMOVE DELIN & OBJECT MARKER ASSMS DOLLARS and CENTS	EA	86.000	83
	658	6062		INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI) DOLLARS and CENTS	EA	11.000	84
	662	6063		WK ZN PAV MRK REMOV (W)4"(SLD) DOLLARS and CENTS	LF	307,320.000	85
	662	6095		WK ZN PAV MRK REMOV (Y)4"(SLD) DOLLARS and CENTS	LF	307,320.000	86
	662	6109		WK ZN PAV MRK SHT TERM (TAB)TY W DOLLARS and CENTS	EA	9,398.000	87
	662	6111		WK ZN PAV MRK SHT TERM (TAB)TY Y-2 DOLLARS and CENTS	EA	6,265.000	88
	666	6006	007	REFL PAV MRK TY I (W)4"(DOT)(100MIL) DOLLARS and CENTS	LF	1,596.000	89
	666	6141	007	REFL PAV MRK TY I (Y)12"(SLD)(100MIL) DOLLARS and CENTS	LF	955.000	90
	666	6303	007	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	12,347.000	91
	666	6306	007	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL) DOLLARS and CENTS	LF	8,899.000	92
	666	6309	007	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL) DOLLARS and CENTS	LF	167,967.000	93
	666	6312	007	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL) DOLLARS and CENTS	LF	2,692.000	94

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	6315	007	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	164,243.000	95
	668	6076		PREFAB PAV MRK TY C (W) (24") (SLD) DOLLARS and CENTS	LF	44.000	96
	668	6077		PREFAB PAV MRK TY C (W) (ARROW) DOLLARS and CENTS	EA	12.000	97
	668	6083		PREFAB PAV MRK TY C (W) (LNDR ARROW) DOLLARS and CENTS	EA	10.000	98
	668	6085		PREFAB PAV MRK TY C (W) (WORD) DOLLARS and CENTS	EA	6.000	99
	672	6007		REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	452.000	100
	672	6009		REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	2,323.000	101
	3020	6001		REMOVE SHOULDER TEXTURING DOLLARS and CENTS	LF	122,485.000	102
	3076	6002		D-GR HMA TY-B SAC-B PG64-22 DOLLARS and CENTS	TON	19,936.000	103
	3076	6066		TACK COAT DOLLARS and CENTS	GAL	4,906.000	104
	3076	6071		D-GR HMA TY-D PG 64-22 (EXEMPT) DOLLARS and CENTS	TON	2,000.000	105
	3077	6022		SP MIXES SP-C SAC-A PG70-22 DOLLARS and CENTS	TON	66,755.000	106

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
1	3085	6001		UNDERSEAL COURSE DOLLARS and CENTS	GAL	99,463.000	107
	6000	6016		INSTALL ELECTRICAL SPLICE DOLLARS and CENTS	EA	7.000	108
	6001	6002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	2.000	109
	6010	6011		CCTV FIELD EQUIP (DIGITAL) (INSTL ONLY) DOLLARS and CENTS	EA	2.000	110
	6027	6003		CONDUIT (PREPARE) DOLLARS and CENTS	LF	425.000	111
	6027	6008		GROUND BOX (PREPARE) DOLLARS and CENTS	EA	8.000	112
	6064	6046		ITS POLE (55 FT)(90 MPH) DOLLARS and CENTS	EA	2.000	113
	6064	6084		ITS POLE MNT CAB (TY 2)(CONF 2) DOLLARS and CENTS	EA	2.000	114
	6137	6005		INSTALLATION OF FES (FIELD CABINET) DOLLARS and CENTS	EA	2.000	115
	6163	6002	002	REMOVE EXISTING CABLES (POWER) DOLLARS and CENTS	LF	560.000	116
	6185	6002	002	TMA (STATIONARY) DOLLARS and CENTS	DAY	188.000	117
	6185	6005	002	TMA (MOBILE OPERATION) DOLLARS and CENTS	DAY	43.000	118

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	6304	6003		ITS RVSD (DC ONLY) (INSTALL ONLY) DOLLARS and CENTS	EA	2.000	119
	6377	6001		SYSTEM INTEGRATION DOLLARS and CENTS	LS	1.000	120
	6386	6001		INSTALLATION OF CELLULAR MODEM DOLLARS and CENTS	EA	2.000	121
				ALTERNATE NO. 1A DOLLARS and CENTS			
	316	6001	002	ASPH (MULTI OPTION) DOLLARS and CENTS	GAL	174,065.000	122
	316	6224	002	AGGR(TY-PB GR-4 SAC-B) DOLLARS and CENTS	CY	4,520.000	123
	3077	6075		TACK COAT DOLLARS and CENTS	GAL	74,600.000	124

***** GENERAL NOTES *****
2014 Specification Book (Revised: August 26, 2020)

Specification Data

**Table 1
Basis of Estimate**

Item	Description	Rate
310	Prime Coat (SS-1H)	0.20 gal./sq.yd.
314	Emulsified Asphalt Treatment (Erosion Control)	9.0 gal./STA
316	AGGR(TY-PB GR-4 SAC-B) ASPH(AC-20-5TR) (Warm Weather); ASPH(AC12-5TR) (Cool Weather)	110 SY/CY 0.35 GAL/SY
3076	Dense-Graded Hot-Mix Asphalt Tack Coat (TRAIL) ²	1 in. = 110 lb./sq.yd. 0.15 gal./sq.yd.
3077	Superpave Mixtures Tack Coat (TRAIL) ²	1 in. = 110 lb./sq.yd. 0.15 gal./sq.yd.
3085	Underseal Course: Refer to Item 3085 general note for material information	Refer to Item 3085 general note for rates

1. Deviation from the rates shown will require approval.
2. Tack Coat to be applied to each layer as directed by the Engineer. Rate shown is based on the desired residual application of 0.10 gal./sq.yd.

General Requirements

Maintain the entire project area in a neat and orderly manner throughout the duration of the work. Remove all construction litter and undesirable vegetation within the right of way inside the project limits. This work will be subsidiary to the various bid items.

General Project Description – This project consists of the construction of SP2 – Super-2 highway on US 62 in Hudspeth County, TX.

TRAFFIC

Contact the Engineer or the City when construction operations are within 400 feet of an illumination pole to determine/verify the location of conduit, ground-boxes, etc. Repair or replace any illumination equipment damaged by construction operations. The method of repair or replacement shall be pre-approved and inspected. This work shall be completed at the Contractor’s expense.

Inform the Engineer and the respective utility companies, when it becomes apparent that the utility lines will interfere with the work in progress.

Contractor questions on this project are to be addressed to the following individual(s):

Monica Ruiz, P.E.
District Construction Engineer
Monica.Ruiz@txdot.gov

Aldo Madrid, P.E.
Director of Construction
Aldo.Madrid@txdot.gov

CONTROL: 0374-06-022

COUNTY: HUDSPETH

HIGHWAY: US 62/180

Contractor questions will be accepted through email, phone, and in person by the above individuals.

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to TxDOT's Public FTP at the following Address:

<https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/>

All questions submitted that generate a response will be posted through this site. The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

ITEM 4 – SCOPE OF WORK

Schedule and perform all work to assure proper drainage during the course of construction. All labor, tools, equipment and supervision required, to ensure drainage, removal, and handling of water shall be considered incidental work.

ITEM 5 – CONTROL OF WORK

The Department will furnish horizontal and vertical reference points. Contractor must verify horizontal and vertical reference points with conventional survey methods before proceeding with construction activities. Verification must be submitted for review and approval to the Department's R.P.L.S. prior to start of construction. Any discrepancies not reported will be at no additional cost to the Department.

Plan datum for this project is NAD 83 for horizontal and NAVD 88 for elevation based.

Electronic earthwork cross sections are available upon request, at bidding Contractor's expense, at the Area Engineer's office.

Keep traveled surfaces used in hauling operations clear and free of dirt or other material.

Existing pavement, utilities, structures, etc. damaged as a result of the operations will be repaired at no additional cost to the Department.

Protect from damage and destruction all areas of the right of way, which are not included in the actual limits of the proposed construction areas. Exercise care to prevent damage to trees, vegetation, and other natural features.

Protect trees, shrubs, and other landscape features from abuse, marring, or damage within the actual construction and/or fenced protection areas designated for preservation. Restore any area disturbed or damaged to a condition "as good as" or "better than" prior to start of construction operation. This work will be at the Contractor's expense.

Contractor to coordinate with Dell Telephone Cooperative, Inc. representative Canuto Mariscal at (432) 940-6654 or Marcos Morales at (432) 940-5418 to locate the lines before beginning work to identify any utility conflict. Notify the Engineer immediately of utility conflicts. The Dell Telephone Cooperative, Inc is responsible for any required utility adjustments in timely manner to avoid any effects on construction.

CONTROL: 0374-06-022

COUNTY: HUDSPETH

HIGHWAY: US 62/180

ITEM 6 – CONTROL OF MATERIALS

Furnish all materials on this Contract except for the following that the Department will provide:

- CCTV Field Equipment
- IP Addressable Power Strip
- Radar Vehicle Sensing Device
- Field Hardened Ethernet Switch
- Cellular Modem

Materials to be furnished by the Department shall be picked up at the El Paso District Headquarters. Contact the Engineer forty-eight (48) hours in advance of picking up materials to notify the Traffic Signal Shop.

ITEM 7 – LEGAL RELATIONS AND RESPONSIBILITIES

Comply with all requirements of the Environmental Permits Issues and Commitments (EPIC) Sheet.

Do not discharge any liquid pollutant from vehicles onto the roadside. Immediately clean spills and dispose in compliance with local, state, and federal regulations to the satisfaction of the Engineer at no additional cost to the Department.

Occupational Safety & Health Administration (OSHA) regulations prohibit operations that bring people or equipment within 10 ft. of an energized electrical line. Where workers and/or equipment may be close to an energized electrical line, notify the electrical power company and make all necessary adjustments to ensure the safety of workers near the energized line.

No significant traffic generator events identified.

ITEM 8 – PROSECUTION AND PROGRESS

Working days will be calculated in accordance with Section 8.3.1., “**Standard** Workweek.”

Create and maintain a Critical Path Method (CPM) schedule.

Submit baseline schedule and obtain approval prior to beginning construction. The monthly progress payment will be held if the monthly update is not submitted.

Provide a Project Schedule Summary Report on a monthly basis along with the monthly progress schedule.

ITEM 9 – MEASUREMENT AND PAYMENT

Monthly progress payments will be made for items of work completed by the 27th day of each month. Any work completed after the 27th will be included for payment in the subsequent monthly progress payment.

CONTROL: 0374-06-022

COUNTY: HUDSPETH

HIGHWAY: US 62/180

Submit Material on Hand (MOH) payment requests at least **three (3)** working days before the end of the month for payment consideration on that month's estimate.

ITEM 100 – PREPARING RIGHT OF WAY

Remove brush and trees within 25 ft width from the existing or proposed edge of pavement from begin to end of project and as needed for construction operations. Trees less than 4 inches in diameter shall be considered brush. The work performed will be measured by the STA.

Contractor shall coordinate and verify removal of trees 4 inches or greater in diameter with the Engineer prior to removing the trees along the roadway.

This item shall cover all items requiring removal within the ROW as directed by the Engineer not governed otherwise by individual removal pay items elsewhere in the plans.

ITEM 110 – EXCAVATION

To eliminate all drop-off conditions, construct tapers as directed. This work will not be paid for directly but will be considered subsidiary to pertinent bid items.

ITEM 132 – EMBANKMENT

Scarify and compact top 6 in. of existing roadway as directed before additional embankment or base course is placed. This work is subsidiary to various bid items.

Track the side slopes of the embankment to control erosion. This work will be subsidiary to various bid items.

ITEM 134 – BACKFILLING PAVEMENT EDGES

Backfill pavement edges immediately after the surface course has begun unless determined otherwise by the Engineer.

Backfill edges to allow no more than a 1:3 slope from pavement edge to existing ground.

Reclaimed asphalt pavement (RAP) may be used to backfill pavement edges. If insufficient RAP is available, then substitute Flexible Base of a type and grade acceptable by the Engineer to backfill pavement edges at no additional cost to the Department.

If Contractor elects to use RAP material for backfill pavement edges, the RAP material must pass a 2" sieve. All material not passing sieve will be removed and disposed of properly. This shall be considered subsidiary to Item 134.

Apply emulsified asphalt at a 50/50 solution of water to emulsion over the disturbed area with backfill material. The application rate shall achieve a final emulsion rate of 0.15 gal/SY residual asphalt.

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ITEM 150 – BLADING

Sprinkling and rolling which may be required during the operation of Item 150 will not be measured or paid for directly, but will be considered subsidiary to this item.

ITEM 247 – FLEXIBLE BASE

A 20-ton vibratory pad foot roller will be required for compaction of lifts 10 inches or greater, unless otherwise directed by the Engineer.

When requested, stake with blue tops at 100-foot intervals, the lines, and grade shown in the plans. (For Item 247.4)

ITEM 310 – PRIME COAT

Cure prime coat for at least 48 hr. prior to beginning hot-mix asphalt placement operations.

Prime coat (SS-1H) must be worked into the top 1" of the flex base.

Contractor is to place the seal coat or pavement course as indicated on plans within 14 calendar days of initial prime coat application. Otherwise, reapply prime coat as directed by the Engineer. Reapplication of the prime coat will be at the Contractor's expense.

ITEM 314 – EMULSIFIED ASPHALT TREATMENT

Apply a 2.0 ft. wide strip of emulsified asphalt at a total rate of 0.80 gallons per square yard as an edge seal along each pavement edge. Lap the pavement edge seal onto the pavement a maximum of 6 in. Dilute the emulsion 3 parts water (0.60 gallons per square yard) to 1 part asphalt (0.20 gallons per square yard). Residual asphalt rate is 9.0 gallons per station of roadbed. Payment will not be made for water. Use MS-2, MC-30, AE-P or other asphalt if approved.

ITEM 316 – SEAL COAT

Before applying the seal coat, protect all bridge armor and expansion joints, manhole and valve covers with paper or other suitable materials as directed by the Engineer.

Protect all existing bridges, curbs, and other exposed concrete surfaces within the limits of the project from asphalt materials by any method that is approved. Remove any excessive asphalt materials deposited on these surfaces at the Contractor's expense. During the application of the surface treatment, if existing conditions warrant, the lane widths, transitions, and intersection areas may be varied as directed.

The Engineer will approve asphalt and aggregate rates prior to application.

Prepare the roadway surface prior to placing asphalt to the satisfaction of the Engineer.

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Use AC-10 or PG 64-22 asphalt for pre-coating aggregate. The stripping characteristics of pre-coated aggregate must not exceed 10% when tested in accordance with Tex-530-C. Add asphalt antistripping agent (Liquid) only to the asphalt pre-coating the aggregate.

This item will not be paid for directly but will be subsidiary to pertinent bid items.

ITEM 351 – FLEXIBLE PAVEMENT STRUCTURE REPAIR

Provide six (6) inches of D-GR HMA TY B SAC B PG 64-22 for all repairs. D-GR HMA TY B SAC B PG 64-22 will not be measured but will be subsidiary to Item 351, Flexible Pavement Structure Repair”.

Perform repairs on locations shown in plans, as per plan quantities or as directed by the engineer.

Repair pavement edges to the line and grade of the original pavement. Sides of the repair area shall be made square by saw cutting or other approved methods. Any loose and foreign material shall be removed. Repair area to be clean and dry prior to application of prime coat. SS-1H to be applied as prime coat at 0.15 gal/sy to repaired area surfaces, unless otherwise directed. Waste material to be removed and disposed of as directed or approved.

Tack coat to be applied all surfaces that will be in contact with the subsequent HMA placement at 0.15 gal/sy, unless otherwise directed.

Use of a motor grader will not be permitted unless otherwise directed by the Engineer.

Proof rolling or other approved compacting method as directed by the Engineer shall be required in the event that Flex Base or Subgrade is exposed, payment is subsidiary to this item.

ITEM 354 – PLANING AND TEXTURING PAVEMENT

Perform Surface Test Type B as per Item 585 and Tex-1001-S to locate areas requiring either corrective action or localize roughness. Perform micro-mill at the areas identified by surface Test Type B prior to the ACP overlay, as directed by the Engineer. The quantity may vary.

ITEM 400 – EXCAVATION AND BACKFILL FOR STRUCTURES

Shape the trench bottom as shown in the drainage details.

Structural excavation for pipe and box will not be paid for directly but are subsidiary to pertinent Items.

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ITEM 401 – FLOWABLE BACKFILL

Mix design is to be approved prior to all applications.

ITEM 432 – RIPRAP

Reinforce concrete riprap with 6 × 6 - W2.9 × W2.9 welded wire fabric or with No. 3 reinforcing bars spaced at a maximum of 12 in. in each direction or as shown on plans.

Finish concrete riprap with a smooth (wood float) finish, unless otherwise directed.

Obtain approval for all stone riprap material sources.

ITEM 464 – REINFORCED CONCRETE PIPE

Use Class III circular pipe for all proposed reinforced concrete, unless otherwise shown on the plans.

Use rubber gaskets as jointing material for concrete pipes.

Coordinate locations of all utilities and corresponding sequence of work. Repair any damage to existing utilities to the satisfaction of the Engineer and the utility owner at no additional cost to the Department.

ITEM 480 – CLEANING EXISTING CULVERTS

This Item will be paid for by the cubic yard and the volume of material to be removed will be computed by the method of average ends areas in its original position. Material removed at the entrance or exit of the culvert in order to gain access to or facilitate the function of the structure, will also be paid for by the cubic yard (average end method).

Dispose of excess material in accordance with applicable federal, state, and local regulations, or place on right of way, as directed.

Hauling and disposal of the excavated materials will not be paid for directly, but will be subsidiary to this Item.

ITEM 502 – BARRICADES, SIGNS, AND TRAFFIC HANDLING

Prior to beginning construction, the Engineer will approve the routing of traffic and sequence of work.

Additional signs and barricades, placed as directed, will be considered subsidiary to this Item.

In accordance with Section 7.2.6.1, designate, in writing, a Contractor Responsible Person (CRP) and a CRP alternate to take full responsibility for the set-up, maintenance, and necessary corrective measures of the traffic control plan. The CRP or CRP alternate must be present at site and implement the initial set up of every traffic control phase/stage, at each location, and/or each call out, for the entire duration of the project.

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At the written request of the Engineer, immediately remove the CRP or CRP alternate from the project if, in the opinion of the Engineer, is not competent, not present at initial TCP set-ups, or does not perform in a proper, skillful, or safe manner. These individuals shall not be reinstated without written consent of the Engineer.

CRP and CRP alternate must be trained using Department approved training. Provide a copy of the certificate of completion to the Engineer for project records. Refer to Table 2 for Department approved Training.

**Table 2
Contractor Responsible Person and Alternate**

Provider	Course Number	Course Title	Duration	Notes
American Traffic Safety Services Association	TCS	Traffic Control Supervisor	2 days	
National Highway Institute	133112 133113	Design and Operation of Work Zone Traffic Control Work Zone Traffic Control for Maintenance Operations	1 day 1 day	Both courses are required to meet minimum required training.
Texas Engineering Extension Services	133112A	Design and Operation of Work Zone Traffic Control	3 days	
University of Texas Arlington Division for Enterprise Development	WKZ421	Traffic Control Supervisor	16 hours	Contact UTA for training needs.

All contractor workers involved with the traffic control implementation and maintenance must participate and complete a Department approved training course. Provide a copy of the certificate of completion to the Engineer for project records. Refer to Table 3 for Department approved training.

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**Table 3
Other Work Zone Personnel**

Provider	Course Number	Course Title	Duration	Notes
American Traffic Safety Services Association	TCT	Traffic Control Technician	1 day	
Texas Engineering Extension Services	HWS002	Work Zone Traffic Control	16 hours	Identical to HWS-410. Counts for 3 year CRP requirement.
National Highway Institute	133116	Maintenance of Traffic for Technicians	5 hours	Web based
National Highway Institute	134109-I	Maintenance Training Series: Basics of Work Zone Traffic Control	1 hour	Free, Web based
University of Texas at Arlington, Division for Enterprise Development	WKZ100	Work Zone Safety: Temporary Traffic Control	4 hours	Note name change. Free, Web based
TxDOT/AGC Joint Development	N/A	Safe Workers Awareness Highway Construction Work Zone Hazards	16 minutes 18 minutes	Videos available through AGC of Texas offices. English & Spanish
AGC America	N/A	Highway Work Zone Safety Training	1 day	
Texas Engineering Extension Service	HWS400	Temporary Traffic Control Worker	4 hours	Contact TEEX, if interested in course
TxDOT/AGC Joint Development	N/A	Work Zone Fundamentals	10 minutes	Videos available through ACT of Texas offices. English & Spanish

Contractor may choose to train workers involved with the traffic control implementation and maintenance with a contractor developed training in lieu of Department approved training. Contractor developed training must be equivalent to the Department approved training shown in Table 2. Provide the Engineer a copy of the course curriculum for pre-approval, prior to conducting the contractor developed training. Provide the Engineer a copy of the log of attendees after training completion for project records.

Existing regulatory signs, route marker auxiliaries, guide signs, and warning signs that must be removed due to widening shall be relocated temporarily and erected on approved supports at locations shown in the plans, or as directed. This work will not be paid for directly, but considered subsidiary to this Item.

Notify the Department officials when major traffic changes are to be made, such as detours. Coordinate with the Department on all traffic changes. Advance notification for the following week's work must be made by 5 P.M. on Wednesdays.

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If Law Enforcement Personnel is required by the Engineer, coordinate with local law enforcement as directed or agreed. Complete the weekly tracking form provided by the Department and submit invoices with 5% allowance for Law Enforcement payments by Contractor that agree with the tracking form for payment at the end of each month where approved services were provided.

Provide access to intersecting side roads and driveways at all times, unless otherwise directed.

Any approved change to the sequence of work or TCP, must be signed and sealed by a Contractor's Licensed Professional Engineer assuming full responsibility for any additional barricade signs and devices needed.

Use striping operations to channelize traffic into the newly completed roadway, as directed. Maintain shoulders and median areas in a condition capable of serving as emergency paths, as approved. This work will be subsidiary to this Item.

Use portable changeable message signs (PCMS) to alert public of construction two weeks prior to construction.

Use flaggers when directed. Provide two-way radio communication for all flaggers.

Place and maintain sufficient additional warning signs, beacons, delineators, and barricades to warn and guide the public of all hazards through the construction zone at all times, and as directed.

Use flashing arrow boards on all tapers for each lane closure.

Some signs, barricades, and channelization devices may not be shown at the precise or measured position. Place the barricades, devices, or signs, with approval, in positions to meet field conditions.

Fill any holes left by barricade or sign supports and restore the area to its original condition.

Use Type A flashing warning lights or delineators to mark open excavation, footings, foundations, or other obstructions near lanes that may be open to traffic, as directed.

For additional information pertaining to channelization, signing, spacing details, and flagging procedures required to regulate, warn, and guide traffic through project, refer to the "Barricade and Construction Standards," BC(1)-21 and to the current *Texas Manual on Uniform Traffic Control Devices (TMUTCD)*.

Remove or cover signs that do not apply to current conditions at the end of each day's work.

Repair and/or replace all signs damaged by the public or due to weather events.

Any sign panels that are adjusted or removed and replaced, shall be done the same workday unless otherwise approved. This work shall be considered subsidiary to Item 502.

Notify the Engineer at least two weeks prior to a proposed traffic pattern change(s) that will require a revision to traffic signals.

Arrange the operations so that any two consecutive entrance ramps or two consecutive exit ramps will not be closed at the same time, unless directed.

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Safety Contingency

The contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancement, to improve the effectiveness of the TCP that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

ITEM 506 – TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

Place Best Method Practices (BMP's) in locations as designated in the plans or as directed to meet field conditions.

Place a weatherproof bulletin board containing the Texas Commission on Environmental Quality (TCEQ) required information on the project at a site as directed. Post the following documents:

1. TCEQ "TPDES Storm Water Program" Construction Site Notice; Primary Construction Site Notices from both Contractor and Department, completed and signed.
2. TCEQ "Primary Notice of Intent," from both Contractor and Department; and
3. TCEQ "TPDES Permit."

Place rain gauge(s) at locations as designated.

The total disturbed area for this project is **124.03** acres. Establish the authorization requirements for Storm Water Discharges for soil disturbed area in this project, all project locations in the Contract, and Contractor Project Specific Locations (PSLs), within one mile of the project limits. Both the Department and the Contractor shall obtain an authorization to discharge storm water from TCEQ for the construction activities shown on the plans. Obtain required authorization from the TCEQ for any Contractor PSLs for construction support activities on or off right of way. When the total area disturbed for all projects in the Contract and PSLs within one mile of the project limits exceeds five acres, provide a copy of the Contractor Notice of Intent (NOI) PSLs on the right of way to the Engineer (to the appropriate Municipal Separate Storm Sewer System (MS4) Operator when on an Off-system State route).

Best Method Practices (BMP's) may be adjusted to meet field conditions, or as directed. Engineer will verify all locations prior to placement of BMPs. Within the project limits, keep all inlets functional as long as possible to accept storm water as part of the Storm Water Pollution Prevention Plan (SWP3), as directed.

The sedimentation fences will be paid at the time of their initial placement. Any required replacement will be paid by Force Account.

Grading operations will be limited to the catch point of the proposed cross section.

Preserve any vegetation outside these limits.

ITEM 508 – CONSTRUCTING DETOURS

Temporary pavement paid under this Item may be modified from details shown in the plans to satisfy field conditions and will be removed as directed. This work will be subsidiary to this Item.

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ITEM 512 – PORTABLE TRAFFIC BARRIER

Coordinate with the Engineer two weeks in advance to schedule pick-up of the Portable Concrete Traffic Barrier (PCTB) from the following location or as directed.

PCTB to be stockpiled at the intersection of RM 652 near RM 1165.

Contractor to provide connection hardware that are commonly known as metal cages. The cost of metal cage is subsidiary to this Item and it shall remain the property of the Department at the end of the project.

Any PCTB furnished by the Department damaged in the process of transporting handling or placement shall be repaired, or replaced at the Contractor's expense.

Upon termination of the need for the PCTB and connection hardware shall remain the property of the Department. Deliver all materials to the original storage site, or as directed.

Contractor must install two yellow reflective tabs (top and side facing traffic) to all PCTB to be used on the project. Any damaged tabs must be replaced immediately. Payment for the original installation and replacement of tabs will be subsidiary to this Item.

ITEM 540 – METAL BEAM GUARD FENCE

Provide composite block-outs for all Metal Beam Guard Fence (MBGF) posts.

Install guardrails in the direction of traffic flow.

Stake the locations for approval prior to beginning the installation of the proposed MBGF.

Remove all delineators and object markers associated with the MBGF. This work will be subsidiary to the various bid items.

Verify MBGF post lengths and heights prior to ordering materials.

Place reflectors, as per Delineator and Pavement Marker Standard sheet D&OM (1)-20 on the metal beam rail element or as directed. This work will not be paid for directly but will be considered subsidiary to pertinent items.

At the end of each work day, protect all untreated, incomplete, MBGF/Rail blunt ends exposed to traffic flow during construction until the permanent end treatment is in place. All work and incidentals are considered subsidiary to this Item.

MBGF not used will become the property of the Contractor.

ITEM 544 – GUARDRAIL END TREATMENTS

Provide certifications from the approved manufacturer's online training for all personnel installing end treatments prior to beginning work.

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ITEM 560 – MAILBOX ASSEMBLIES

All final installations require new materials in their final locations. Payment is for the each, complete, in place new assembly. Assemblies may include multiple boxes mounted on a single pole/post. All other manipulations or costs will be subsidiary to this Item.

ITEM 585 – RIDE QUALITY FOR PAVEMENT SURFACES

Use Surface Test Type B to govern ride quality for finished riding surfaces of travel lanes. Notify the District Laboratory 48 hours prior to conducting Surface Test Type B. Properly mark all starting/ending points, and leave out sections prior to testing. Deliver test results within 24 hours of testing. Provide all profile measurements in electronic data to ELP-LAB@txdot.gov using the format specified in Tex-1001-S.

Payment Adjustment, Schedule 1" will be used for the travel lanes.

An IRI > 95 will require corrective action.

Use diamond grinding or equivalent to correct areas of localized roughness. For flexible pavements, use CSS-1H emulsion to fog seal the corrected areas.

Milling will not be allowed as a corrective action for excessive deviations in the surface layer of hot mix.

ITEM 610 – ROADWAY ILLUMINATION ASSEMBLIES

Conductor runs in Illumination Layouts contain 5 ft. of slack.

Limitations on Use of the RIP-19 Standard

The Roadway Illumination Pole (RIP-19) Standard Details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e. not more than) 25 ft. above the elevation of surrounding terrain, in accordance with the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals*, Xth Edition (20XX) (AASHTO Design Specifications). For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25-ft. above the surrounding terrain, provide poles meeting the following requirements:

Submittals. Submit fabrication drawings and calculations sealed by a licensed professional engineer. Follow the electronic shop drawing submittal process (see Guide Electronic Shop Drawing Submittal), to submit fabrication drawings and calculations for approval.

Luminaire Structural Support Requirements. Lighting poles, arms, and anchor bolt assemblies shall have a 25-year design life to resist dead loads, ice loads, and the required basic wind speeds safely at the location of installation in accordance with the current edition of the AASHTO Design Specifications. For transformer base poles, the fabricator shall include transformer base and connecting hardware in calculations and shop drawing submittals. All transformer bases shall have been structurally tested to resist the theoretical plastic moment capacity of the pole. Certification of

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the plastic moment load test and FHWA breakaway requirement test of the model of base being furnished shall be submitted with the shop drawings. Shop drawings shall show breakaway base model number, and manufacturer's name and logo. Manufacturer's shop drawings shall include the ASTM designations for all materials to be used.

Fabricate steel roadway illumination poles in accordance with Department standards RIP-2019 (Roadway Illumination Poles – RIP (1)-19). Poles fabricated according to RIP-2019 require no shop drawings. Alternate designs to RIP-2019 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to the Texas Department of Transportation (TxDOT) home page, <http://txdot.gov>, Business with TxDOT, Bridge information, Shop drawings. File is titled: Guide to Electronic Shop Drawing Submittal.

ITEM 618 – CONDUIT

The location of conduit is diagrammatic and may be varied to meet local conditions upon approval of the Engineer. When shown on the plans, use underground warning tape in the trench installation of conduit (PVC).

For conduit placement in pavement, an earth-saw may be used provided the cut does not exceed 6 in. Backfill as shown on the trench details in the plans.

For all underground conduit bends of 45°, provide rigid metal conduit. Where the rigid metal conduit is exposed at any point and where rigid metal extends into ground boxes, bond the metal conduit to the grounding conductor with grounding type bushings or by other UL-listed grounding connectors, approved by the Engineer. Rigid metal bends will not be paid for directly but will be considered incidental to the PVC conduit system.

Use rigid metal conduit when crossing bridges or culverts. All clamps, expansion joints, bolts and accessories necessary to install the rigid metal will be subsidiary to this item.

Backfill roadway and driveway trench with cement-stabilized backfill at the end of each working day. Place an ACP patch at the end of the week or as directed by the Engineer.

All conduit elbows and rigid metal extensions required to be installed on PVC conduit systems will not be paid for separately but will be considered subsidiary to the various bid items.

All bore items shall be directional and shall be paid for under this item. Bore quantities include the distance beneath the roadway plus an additional 2 ft. on either side of the curb, sidewalk, or edge of pavement.

For conduits install by open trench method, backfill the trench as shown on the plans.

Place conduit for fiber optic cable at a minimum of 48 in. below pavement surface. Place all other conduit at a minimum depth of 18 in. below the pavement surface. Place conduit prior to the new pavement construction.

Fit both ends of each raceway with a temporary cap to prevent dirt and debris from entering during construction. Install a continuous green insulated copper wire No. 8 AWG or larger in every conduit throughout the electrical system in accordance with the electrical detail sheets, and the latest edition of the National Electrical Code.

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When conduit is to be installed where riprap presently exists, take care in breaking the existing riprap for placement of the conduit. Do not break out a greater area that is required for placement of the conduit. Replace broken riprap with Class "C" concrete to the exact slope, pattern, color and thickness of the existing riprap. Replacement of riprap will be subsidiary to this Item.

ITEM 624 – GROUND BOXES

Remove all conductors in ground boxes as shown on the plans to be abandoned. Payment for removal of conductors will be subsidiary to this Item.

ITEM 644 – SMALL ROADSIDE SIGN ASSEMBLIES

Stake all sign locations and receive approval prior to sign placement.

The 2-1/2 inch, Schedule 10 post will meet the following requirements:

- 0.120 in. nominal wall thickness
- Seamless or electric resistance welded steel tubing or pipe
- Steel will be HSLAS Grade 55 per ASTM A1011 or ASTM A1008

Other steel may be used, if it meets the following:

- 55,000 psi minimum yield strength
- 70,000 psi minimum tensile strength
- 20% minimum elongation in 2 in.
- Wall thickness (uncoated) to be within the range of 0.108 in. to 0.132 in. galvanization per ASTM A123 or ASTM A653 G90

For pre-coated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metalizing with zinc wire per ASTM B833.

Verify all post lengths to ensure the proper sign height. Remove and replace any sign installed incorrectly. This work will be done at no expense to the Department.

Provide Texas Universal Triangular Slip Base clamp type for all signs as shown on SMD (Slip-1)-08.

As directed, some regulatory and guide signs will be relocated before construction begins. Mark and locate each reference marker perpendicular to the road and along the right of way, or as directed, prior to removal. Re-erect reference markers at their original location upon completion of construction.

ITEM 658 – DELINEATOR AND OBJECT MARKER ASSEMBLIES

Verify all locations with the Engineer prior to installation.

Removal and proper disposal of all existing delineators, object markers, and any non-standard hardware assemblies are not paid directly, but will be considered subsidiary to pertinent items for payment.

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ITEM 662 – WORK ZONE PAVEMENT MARKINGS

In those areas where existing pavement markings are to be covered or removed, field locate and record the existing pavement markings by survey or other approved method by the Engineer as directed. Place final striping on these locations.

Remove and properly dispose of tabs upon completion of the final striping. This work is considered subsidiary to various bid items.

ITEM 666 – RETROREFLECTORIZED PAVEMENT MARKINGS

Use a pilot line for final striping and remove pilot line after all striping is complete. Removal will be in accordance with the methods specified in Item 677, "Eliminating Existing Pavement Markings and Markers," and will be subsidiary to this Item.

Air blasting is required as pavement surface preparation.



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

In those areas where existing pavement markings are to be covered or removed, field locate and record the existing pavement markings by survey or other approved method by the Engineer as directed. Place final striping on these locations.

ITEM 672 – RAISED PAVEMENT MARKERS

Use a pilot line for final striping and remove pilot line after all striping is complete. Removal will be in accordance with the methods specified in Item 677, "Eliminating Existing Pavement Markings and Markers," and will be subsidiary to this Item.

Air blasting is required for pavement surface preparation.

Furnish adhesives that conform to DMS-6100, "Epoxies and Adhesives," and DMS-6130, "Bituminous Adhesive for Pavement Markers," for this Item.

Do not place raised pavement markers when the pavement surface temperature is below 60°F.

Removal of all existing raised pavement markers will be considered subsidiary to the various bid items.

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ITEM 3020 – REMOVE SHOULDER TEXTURING

Prior to widening work, remove and repair existing rumble strips by planing to the width and depth of the existing rumble strips. Then remove loose and foreign materials from the planed areas and apply tack coat prior to placing and compacting asphalt material. Removing and repairing of milled rumble strips to be paid under this Item. Asphalt concrete placed in the planed surface shall be in accordance with Item 3076, "Dense-Graded Hot-Mix Asphalt". Provide D-GR HMA TY-F PG64-22 (EXEMPT) or D-GR HMA TY-D PG 64-22 (EXEMPT) or as directed by the Engineer.

ITEM 3076 – DENSE-GRADED HOT-MIX ASPHALT

Provide aggregates with a Surface Aggregate Classification (SAC) of "A" for all surface mixes. Provide aggregates with a minimum SAC of B for all other layers unless otherwise shown on the plans.

In place of typical tack materials shown in Table 18 under Item 300, use a tracking resistant asphalt interlayer (TRAIL) material as a tack coat. Approved TRAIL products are found on TxDOT's Material Producer List under Asphalt Interlayer (Tracking Resistant) through <http://www.txdot.gov/business/resources/materials.html>.

Do not dilute the tack coat.

Tack coat shall be applied to each layer as directed by the Engineer.

Hydrated Lime shall be added as an additive as per Item 301 "Asphalt Antistripping Agents" between the rates of 1.0% minimum and 2.0% maximum by weight. If the Hamburg Wheel Test cannot be met within these limits, Liquid Antistripping agents as approved by the Engineer may be used in conjunction with lime.

Supply Warm-Mix Asphalt (WMA) under this Item.

When Reclaimed Asphalt Pavement (RAP) is used in the production of hot-mix asphaltic concrete, use fractionated RAP. Do not exceed 10.0% of Fractionated RAP on surface mixtures.

Use of RAS is not allowed for any mixtures.

Substitute PG Binders (grade dumping) will not be allowed for any mixtures.

Obtain the current version of the templates at <http://www.txdot.gov/inside-txdot/forms-publications/consultants-contractors/forms/site-manager.html>. Submit electronically to the Engineer.

Design the mixture at 50 gyrations (Ndesign).

Do not cover with asphaltic material, any existing survey monuments, manholes, or valve covers, etc. Adjustments will be done in coordination with the respective utility owners.

Place a string line or other suitable marking to ensure smooth, neat lines, or as directed. Provide smooth transitions to existing driveways and intersections.

Place longitudinal joints approximately 6 in. from the broken striping, or as directed, to avoid placing under the wheel path.

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Operate the spreading and finishing machine at a uniform forward speed consistent with the plant production rate, hauling capability, and roller train capacity to result in a continuous operation. The speed will be slow enough, so that stopping between trucks is not ordinarily required. If the Engineer determines non-uniform delivery of material is affecting the HMA placement, the Engineer may require the paving operations to cease until acceptable methods are employed to minimize starting and stopping of the paver.

Perform Surface Test Type B as per Item 585 and Tex-1001-S to locate areas requiring either corrective action or localize roughness. Place D-GR HMA TY-D PG 64-22 (EXEMPT) to fill the dips identified by surface Test Type B prior to the SP-C Inlay, as directed by the Engineer. The quantity may vary.

ITEM 3077 – SUPERPAVE MIXTURES



Use Surface Aggregate Classification "A" material for all surface mixes.

In place of typical tack materials shown in Table 18 under Item 300, use a tracking resistant asphalt interlayer (TRAIL) material as a tack coat. Approved TRAIL products are found on TxDOT's Material Producer List under Asphalt Interlayer (Tracking Resistant) through <http://www.txdot.gov/business/resources/materials.html>.

Do not dilute the tack coat.

Tack coat shall be applied to each layer as directed by the Engineer.

Tack coat will be required only if the seal coat items are used as underseal membrane. Tack coat will not be required with spray applied underseal membrane.

Hydrated Lime shall be added as an additive as per Item 301 "Asphalt Antistripping Agents" between the rates of 1.0% minimum and 2.0% maximum by weight. If the Hamburg Wheel Test cannot be met within these limits, Liquid Antistripping agents as approved by the Engineer may be used in conjunction with lime.

Supply Warm-Mix Asphalt (WMA) under this Item.

When Reclaimed Asphalt Pavement (RAP) is used in the production of hot-mix asphaltic concrete, use fractionated RAP. Do not exceed 10.0% of Fractionated RAP on surface mixtures.

Use of RAS is not allowed for any mixtures.

Substitute PG Binders (grade dumping) will not be allowed for any mixtures.

Obtain the current version of the templates at <http://www.txdot.gov/inside-txdot/forms-publications/consultants-contractors/forms/site-manager.html>. Submit electronically to the Engineer.

Design the mixture at 50 gyrations (Ndesign).

Do not cover with asphaltic material, any existing survey monuments, manholes, or valve covers, etc. Adjustments will be done in coordination with the respective utility owners.



1 Place a string line or other suitable marking to ensure smooth, neat lines, or as directed. Provide smooth transitions to existing driveways and intersections.

Provide a minimum of 40 ft skis during paving operations to ensure smooth final surface.

Place longitudinal joints approximately 6 in. from the broken striping, or as directed. Avoid placing under the wheel path.

Operate the spreading and finishing machine at a uniform forward speed consistent with the plant production rate, hauling capability, and roller train capacity to result in a continuous operation. The speed will be slow enough, so that stopping between trucks is not ordinarily required. If the Engineer determines non-uniform delivery of material is affecting the SP-C placement, the Engineer may require the paving operations to cease until acceptable methods are employed to minimize starting and stopping of the paver.



ITEM 3085 – UNDERSEAL COURSE

The minimum application rates are listed in Table UC. The Engineer may adjust the application rate taking in consideration the existing pavement surface conditions.



Construct an underseal course using a Spray Applied Underseal Membrane, applied before the placement of SP-C.



Table UC

Material	Minimum Application Rate
Spray Applied Underseal Membrane	0.20 GAL/SY



ITEM 6001 – PORTABLE CHANGEABLE MESSAGE SIGN

Provide messages as directed.

Portable Changeable Message Sign to be available as deemed necessary.

CONTROL: 0374-06-022

COUNTY: HUDSPETH

HIGHWAY: US 62/180

ITEM 6185 – TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)

All TMA Operators must participate in a TMA workshop to be conducted by the El Paso District Safety Office, on the proper use of TMAs, prior to working on Department Right of Way (ROW). A certificate of completion will be issued to TMA Operators that successfully complete the TMA workshop. The certificate of completion must be carried by TMA Operators at all times while working on Department right of way.

Acquire the TCP and TMA Operator's certificates of completion prior to the authorization to begin work. No time suspension will be granted and no traffic control work will be allowed without certificates of completion.

Up to 2 total shadow vehicles with TMA will be required for this type of work. The contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

The supporting vehicle for the TMA shall have a minimum gross (i.e., ballasted) vehicular weight of 19,000 pounds.

Basis of Estimate for Stationary TMAs				
		TMA(Stationary)		
Phase	Standard	Required	Additional	TOTAL
1 - Step 1	TCP(2-2b)-18	2		2
1 - Step 2	TCP(2-2b)-18	2		2
2 - Step 1	TCP(2-3)-18	2		2
3 - Step 1A	TCP(2-2b)-18	2		2
3 - Step 1B	TCP(2-2b)-18	2		2
3 - Step 2B	TCP(2-2b)-18	2		2
3 - Step 2B	TCP(2-2b)-18	2		2

Basis of Estimate for Mobile TMAs				
		TMA(Mobile)		
Phase	Standard	Required	Additional	TOTAL
3	TCP(3-1)13/(3-3)-14	2		2

CONTROL : 0374-06-022
PROJECT : F 2022(758)
HIGHWAY : US 62
COUNTY : HUDSPETH

TEXAS DEPARTMENT OF TRANSPORTATION

GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

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

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

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (103)
ITEM 104 REMOVING CONCRETE
ITEM 106 OBLITERATING ABANDONED ROAD
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (100) (160) (204) (210) (216) (260) (400)
ITEM 134 BACKFILLING PAVEMENT EDGES (162) (166) (168) (300) (314)
(3096)
ITEM 150 BLADING
ITEM 247 FLEXIBLE BASE (105) (204) (210) (216) (520)
ITEM 310 PRIME COAT (300) (316) (3096)
ITEM 314 EMULSIFIED ASPHALT TREATMENT (204) (300) (3096)
ITEM 316 SEAL COAT (210) (300) (302) (340) (520)
ITEM 351 FLEXIBLE PAVEMENT STRUCTURE REPAIR (132) (204) (247) (260)
(263) (275) (276) (292) (310) (316) (330) (334) (340) (341) (3076)
ITEM 354 PLANING AND TEXTURING PAVEMENT
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (110) (132) (401)
(402) (403) (416) (420) (421) (423)
ITEM 401 FLOWABLE BACKFILL (421)
ITEM 402 TRENCH EXCAVATION PROTECTION
ITEM 403 TEMPORARY SPECIAL SHORING (410) (411) (423)
ITEM 416 DRILLED SHAFT FOUNDATIONS (405) (420) (421) (423) (440) (448)
ITEM 432 RIPRAP (247) (420) (421) (431) (440)
ITEM 462 CONCRETE BOX CULVERTS AND DRAINS (400) (402) (403) (420)
(421) (422) (424) (440) (464) (476)
ITEM 464 REINFORCED CONCRETE PIPE (400) (402) (403) (467) (476)
ITEM 466 HEADWALLS AND WINGWALLS (400) (420) (421) (432) (440) (464)
ITEM 467 SAFETY END TREATMENT (400) (420) (421) (432) (440) (442) (445)
(460) (464)
ITEM 480 CLEANING EXISTING CULVERTS

ITEM 496 REMOVING STRUCTURES
 ITEM 500 MOBILIZATION
 ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
 ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL
 CONTROLS (161) (432) (556)
 ITEM 508 CONSTRUCTING DETOURS
 ITEM 512 PORTABLE TRAFFIC BARRIER (420) (421) (424) (440) (442)
 ITEM 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247) (260) (263)
 (275) (276) (292) (316) (330) (334) (340) (341) (360) (421) (440)
 (3076)
 ITEM 533 MILLED RUMBLE STRIPS
 ITEM 540 METAL BEAM GUARD FENCE (421) (441) (445) (529)
 ITEM 544 GUARDRAIL END TREATMENTS
 ITEM 545 CRASH CUSHION ATTENUATORS (421)
 ITEM 560 MAILBOX ASSEMBLIES
 ITEM 610 ROADWAY ILLUMINATION ASSEMBLIES (416) (421) (432) (441) (442)
 (445) (449) (614) (616) (618) (620) (622) (624) (628)
 ITEM 618 CONDUIT (400) (476)
 ITEM 620 ELECTRICAL CONDUCTORS (610) (628)
 ITEM 624 GROUND BOXES (420) (421) (432) (440) (618) (620)
 ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421) (440) (441) (442) (445)
 (636) (643) (656)
 ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
 ITEM 662 WORK ZONE PAVEMENT MARKINGS (666) (668) (672) (677)
 ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS (316) (502) (662) (677)
 (678)
 ITEM 668 PREFABRICATED PAVEMENT MARKINGS (678)
 ITEM 672 RAISED PAVEMENT MARKERS (677) (678)

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

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

WAGE RATES

SPECIAL PROVISION "NONDISCRIMINATION" (000---002)
 SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"
 (000---003)
 SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
 ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE
 ORDER 11246" (000---004)
 SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
 CONSTRUCTION CONTRACT SPECIFICATIONS" (000---005)
 SPECIAL PROVISION "ONTHEJOB TRAINING PROGRAM" (000---006)
 SPECIAL PROVISION "CERTIFICATE OF INTERESTED PARTIES (FORM 1295)"
 (000--1019)
 SPECIAL PROVISION "CARGO PREFERENCE ACT REQUIREMENTS IN FEDERAL AID
 CONTRACTS" (000---241)
 SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL AID
 CONTRACTS" (000---394)
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000---395)

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000---658)
SPECIAL PROVISION "NOTICE OF CONTRACTOR PERFORMANCE EVALUATIONS"
(000---659)

SPECIAL PROVISIONS TO ITEM 2 (002---009) (002---011) (002---013)
SPECIAL PROVISIONS TO ITEM 3 (003---011) (003---013)
SPECIAL PROVISIONS TO ITEM 5 (005---002) (005---003)
SPECIAL PROVISIONS TO ITEM 6 (006---001) (006---012)
SPECIAL PROVISIONS TO ITEM 7 (007---004) (007---008) (007---010)
(007---011)

SPECIAL PROVISIONS TO ITEM 8 (008---030) (008---033)
SPECIAL PROVISIONS TO ITEM 9 (009---010) (009---011)

SPECIAL PROVISION TO ITEM 247 (247---003)
SPECIAL PROVISION TO ITEM 300 (300---020)
SPECIAL PROVISION TO ITEM 302 (302---003)
SPECIAL PROVISION TO ITEM 314 (314---001)
SPECIAL PROVISION TO ITEM 316 (316---002)
SPECIAL PROVISION TO ITEM 334 (334---003)
SPECIAL PROVISION TO ITEM 340 (340---004)
SPECIAL PROVISION TO ITEM 341 (341---004)
SPECIAL PROVISION TO ITEM 342 (342---005)
SPECIAL PROVISION TO ITEM 347 (347---003)
SPECIAL PROVISION TO ITEM 348 (348---004)
SPECIAL PROVISION TO ITEM 421 (421---010)
SPECIAL PROVISION TO ITEM 440 (440---004)
SPECIAL PROVISION TO ITEM 441 (441---004)
SPECIAL PROVISION TO ITEM 442 (442---001)
SPECIAL PROVISION TO ITEM 449 (449---002)
SPECIAL PROVISION TO ITEM 462 (462---002)
SPECIAL PROVISION TO ITEM 464 (464---001)
SPECIAL PROVISION TO ITEM 465 (465---001)
SPECIAL PROVISION TO ITEM 506 (506---005)
SPECIAL PROVISION TO ITEM 520 (520---002)
SPECIAL PROVISION TO ITEM 540 (540---001)
SPECIAL PROVISION TO ITEM 636 (636---001)
SPECIAL PROVISION TO ITEM 643 (643---001)
SPECIAL PROVISION TO ITEM 656 (656---001)
SPECIAL PROVISION TO ITEM 666 (666---007)

SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 6163 (6163--002)
SPECIAL PROVISION TO SPECIAL SPECIFICATION ITEM 6185 (6185--002)

SPECIAL SPECIFICATIONS:

ITEM 3002 SPRAY APPLIED UNDERSEAL MEMBRANE (320)
ITEM 3020 REMOVE SHOULDER TEXTURING
ITEM 3076 DENSE-GRADED HOT-MIX ASPHALT (300) (301) (316) (320) (340)
(341) (342) (347) (348) (520) (585) (3079) (3081) (3082) (3096)
ITEM 3077 SUPERPAVE MIXTURES (300) (301) (316) (320) (342) (344) (347)
(348) (520) (585) (3079) (3081) (3082) (3096)
ITEM 3079 PERMEABLE FRICTION COURSE (PFC) (300) (301) (320) (342) (520)
(585) (3096)
ITEM 3081 THIN OVERLAY MIXTURES (TOM) (300) (301) (320) (347) (520)
(585) (3096)

ITEM 3082 THIN BONDED FRICTION COURSES (210) (300) (301) (320) (342)
 (348) (520) (585) (3079) (3096)
 ITEM 3085 UNDERSEAL COURSE (300) (302) (316) (3002) (3096)
 ITEM 3096 ASPHALTS, OILS, AND EMULSIONS
 ITEM 6000 ILLUMINATION MAINTENANCE (104) (400) (416) (421) (431) (432)
 (440) (476) (610) (613) (614) (616) (618) (620) (621) (622) (624)
 (627) (628)
 ITEM 6001 PORTABLE CHANGEABLE MESSAGE SIGN
 ITEM 6005 TESTING, TRAINING, DOCUMENTATION, FINAL ACCEPTANCE, AND
 WARRANTY
 ITEM 6006 ELECTRONIC COMPONENTS
 ITEM 6010 CCTV FIELD EQUIPMENT (6005) (6006)
 ITEM 6027 PREPARATION OF EXISTING CONDUITS, GROUND BOXES, OR
 MANHOLES (465) (618) (624)
 ITEM 6064 INTELLIGENT TRANSPORTATION SYSTEM (ITS) POLE WITH CABINET
 (416) (421) (440) (441) (442) (445) (449) (496) (618) (620) (740)
 ITEM 6137 INTELLIGENT TRANSPORTATION SYSTEM (ITS) EQUIPMENT
 ITEM 6163 REMOVE EXISTING CABLES
 ITEM 6185 TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)
 ITEM 6304 INTELLIGENT TRANSPORTATION SYSTEM (ITS) RADAR VEHICLE
 SENSING DEVICE
 ITEM 6377 SYSTEM INTEGRATION
 ITEM 6386 INSTALLATION OF CELLULAR MODE M

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.