

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 2/03/2012

Control	1754-02-018
Project	CC 1754-2-18
Highway	RM 1826
County	HAYS

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 1754-2-18 CONTROL: 1754-02-018
COUNTY: HAYS
LETTING: 02/07/2012
REFERENCE NO: 0202

PROPOSAL ADDENDUMS

- _ PROPOSAL COVER
X BID INSERTS (SH. NO.: 2-10 THRU 10-10)
X GENERAL NOTES (SH. NO.: A THRU CC;)

X SPEC LIST (SH. NO.: 1-3 THRU 3-3)
_ SPECIAL PROVISIONS:
_ ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
_ ADDED:

DELETED:

X OTHER: PLAN SHEETS 2,3,3A-3N,4,4A,4B,7,10,45A,47,50,51,51A,71,101A &
101B
DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

- ***** PROPOSAL *****
(1). BID INSERT, SHEETS 2 THRU 10, ADDED ITEM 354-2021,416-2002 &
420-2005.

(2). BID INSERT, SHEETS 3-10 THRU 10-10, SHIFTED DUE TO THE ABOVE ADDITION

(3). GENERAL NOTES, SHEETS A THRU O, SHIFTED, GENERATING SHEETS P
THRU CC.

(4). GENERAL NOTE, ITEM 423, SHEET Q, REVISED GENERAL NOTE.

(5). GENERAL NOTE, ITEM 461, SHEET T, REVISED GENERAL NOTE.

- ***** PLAN SHEETS *****

(7). PLAN SHEETS 3 THRU 3N SEE GENERAL NOTES ABOVE.

(8). PLAN SHEETS 4, 4A THRU 4B, REVISED ESTIMATE AND QUANTITY WHERE
DESCRIPTION OF ABOVE CHANGES (CONTINUED)
(INCLUDING PLANS SHEET CHANGES)

INDICATED. SEE BID INSERT FOR DETAILS.

- (9). PLAN SHEET 7, ADDED ITEMS 354 & 3224.
- (10). PLAN SHEET 10, REVISED BRIDGE CULVERT STATIONING AND ADDED ITEMS 416 AND 420 DESCRIPTION OF ABOVE CHANGES.
- (11). PLAN SHEET 45A THIS SHEET WAS ADDED TO PLAN SET.
- (12). PLAN SHEET 47 REVISED BRIDGE LIMITS AND FOUNDATION DESIGN.
- (13). PLAN SHEET 50 REVISED BRIDGE LIMITS AND FOUNDATION DESIGN.
- (14). PLAN SHEET 51 REVISED NOTES FOR CONCRETE FOOTINGS AND NOTES.
- (15). PLAN SHEET 51A THIS SHEET WAS ADDED TO THE PLAN SET. ADDED BRIDGE FOUNDATION DETAILS.
- (16). PLAN SHEET 71 REVISED BRIDGE LIMITS AND FOUNDATION.
- (17). PLAN SHEET 101A AND 101B THESE SHEETS WERE ADDED TO THE PLAN SET.

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	22.100	1
	104	2001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	594.000	2
	104	2010		REMOVING CONC (RIPRAP) DOLLARS and CENTS	CY	9.700	3
	105	2035		REMOVING STAB BASE & ASPH PAV (0-2") DOLLARS and CENTS	SY	836.000	4
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	1,384.000	5
	110	2002		EXCAVATION (CHANNEL) DOLLARS and CENTS	CY	350.000	6
	132	2003		EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS	CY	4,725.000	7
	160	2003		FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS	SY	9,676.000	8
	164	2023	002	CELL FBR MLCH SEED(PERM)(RURAL)(CLAY) DOLLARS and CENTS	SY	9,676.000	9
	164	2029	002	CELL FBR MLCH SEED(TEMP)(WARM) DOLLARS and CENTS	SY	4,839.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	242.000	11
	169	2001	002	SOIL RETENTION BLANKETS (CL 1) (TY A) DOLLARS and CENTS	SY	9,676.000	12
	216	2001		PROOF ROLLING DOLLARS and CENTS	HR	10.000	13
	247	2392	033	FL BS(CMP IN PLC)(TY D GR 5)(FNAL POS) DOLLARS and CENTS	CY	2,098.000	14
	310	2005		PRIME COAT (MC-30 OR AE-P) DOLLARS and CENTS	GAL	1,563.000	15
	316	2707	016	ASPH (TIER III) DOLLARS and CENTS	GAL	2,300.000	16
	316	2719	016	AGGR (TIER III) DOLLARS and CENTS	CY	53.000	17
	354	2021		PLANE ASPH CONC PAV(0" TO 2") DOLLARS and CENTS	SY	1,056.000	18
	400	2005		CEM STABIL BKFL DOLLARS and CENTS	CY	68.000	19
	401	2001		FLOWABLE BACKFILL DOLLARS and CENTS	CY	51.000	20
	403	2001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	1,573.000	21

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	ITEM NO	DESC CODE	S.P. NO.				
	416	2002		DRILL SHAFT (24 IN) and DOLLARS CENTS	LF	160.000	22
	420	2005	002	CL C CONC (FOOTING) and DOLLARS CENTS	CY	33.300	23
	423	2001		RETAINING WALL (MSE) and DOLLARS CENTS	SF	682.000	24
	432	2002		RIPRAP (CONC)(5 IN) and DOLLARS CENTS	CY	140.000	25
	432	2039		RIPRAP (MOW STRIP)(4 IN) and DOLLARS CENTS	CY	69.000	26
	450	2154	001	RAIL (TY T1W) and DOLLARS CENTS	LF	325.650	27
	461	2007		STR PL PIPE ARCH(CORR STL)(337" X 114") and DOLLARS CENTS	LF	60.170	28
	464	2005	003	RC PIPE (CL III)(24 IN) and DOLLARS CENTS	LF	148.000	29
	464	2010	003	RC PIPE (CL III)(42 IN) and DOLLARS CENTS	LF	94.000	30
	466	2203		HEADWALL (SPECIAL) and DOLLARS CENTS	EA	2.000	31
	467	2288		SET (TY II)(24 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	6.000	32

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	ITEM NO	DESC CODE	S.P. NO.				
	467	2293		SET (TY II)(42 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	4.000	33
	496	2004		REMOV STR (SET) and DOLLARS CENTS	EA	10.000	34
	496	2007		REMOV STR (PIPE) and DOLLARS CENTS	LF	270.000	35
	496	2043		REMOV STR (SMALL FENCE) and DOLLARS CENTS	LF	1,058.000	36
	500	2001	005	MOBILIZATION and DOLLARS CENTS	LS	1.000	37
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING and DOLLARS CENTS	MO	6.000	38
	506	2002	010	ROCK FILTER DAMS (INSTALL) (TY 2) and DOLLARS CENTS	LF	456.000	39
	506	2003	010	ROCK FILTER DAMS (INSTALL) (TY 3) and DOLLARS CENTS	LF	228.000	40
	506	2009	010	ROCK FILTER DAMS (REMOVE) and DOLLARS CENTS	LF	684.000	41
	506	2016	010	CONSTRUCTION EXITS (INSTALL) (TY 1) and DOLLARS CENTS	SY	228.000	42

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	ITEM NO	DESC CODE	S.P. NO.				
	506	2019	010	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	228.000	43
	506	2024	010	BACKHOE WORK (EROSION & SEDM CONT) DOLLARS and CENTS	HR	50.000	44
	506	2033	010	SANDBAGS FOR EROSION CONTROL (2') DOLLARS and CENTS	LF	341.000	45
	506	2034	010	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	2,082.000	46
	508	2002		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	965.000	47
	512	2008	002	PORT CTB (FUR & INST)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	520.000	48
	512	2009	002	PORT CTB (FUR & INST)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	60.000	49
	512	2026	002	PORT CTB (MOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	280.000	50
	512	2027	002	PORT CTB (MOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	40.000	51
	512	2044	002	PORT CTB (REMOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	520.000	52
	512	2045	002	PORT CTB (REMOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	60.000	53

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	ITEM NO	DESC CODE	S.P. NO.				
	530	2014		TURNOUTS (ACP) and DOLLARS CENTS	EA	2.000	54
	530	2030		DRIVEWAYS (ACP)(TYPE 1) and DOLLARS CENTS	SY	352.000	55
	540	2001	023	MTL W-BEAM GD FEN (TIM POST) and DOLLARS CENTS	LF	687.000	56
	540	2011	023	MTL BEAM GD FEN TRANS (THRIE-BEAM) and DOLLARS CENTS	EA	4.000	57
	540	2036	023	DRIVEWAY TERMINAL ANCHOR SECTION and DOLLARS CENTS	EA	1.000	58
	540	2037	023	MTL W - BEAM GD FEN(CRT POST)(SHRT RAD) and DOLLARS CENTS	LF	25.000	59
	542	2001		REMOVING METAL BEAM GUARD FENCE and DOLLARS CENTS	LF	584.000	60
	542	2002		REMOVING TERMINAL ANCHOR SECTION and DOLLARS CENTS	EA	6.000	61
	544	2001		GUARDRAIL END TREATMENT (INSTALL) and DOLLARS CENTS	EA	7.000	62
	552	2001		WIRE FENCE (TY A) and DOLLARS CENTS	LF	1,093.000	63

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	ITEM NO	DESC CODE	S.P. NO.				
	556	2001		PIPE UNDERDRAINS (TY 1) (6") DOLLARS and CENTS	LF	102.000	64
	560	2004	001	MAILBOX INSTALL-S (WC-POST) TY 3 FND DOLLARS and CENTS	EA	8.000	65
	644	2001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	9.000	66
	644	2005		IN SM RD SN SUP&AM TY10BWG(1)SA(T- 2EXT) DOLLARS and CENTS	EA	1.000	67
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	8.000	68
	658	2259		INSTL DEL ASSM (D-SW)SZ (TYC)CTB(BI) DOLLARS and CENTS	EA	6.000	69
	658	2261		INSTL DEL ASSM (D-SW)SZ (TYC)GF1(BI) DOLLARS and CENTS	EA	19.000	70
	662	2004		WK ZN PAV MRK NON-REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	9,949.000	71
	662	2016		WK ZN PAV MRK NON-REMOV (W) 24" (SLD) DOLLARS and CENTS	LF	10.000	72
	662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	9,419.000	73

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	ITEM NO	DESC CODE	S.P. NO.				
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	980.000	74
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	980.000	75
	666	2011		REFL PAV MRK TY I (W) 4" (SLD)(090MIL) DOLLARS and CENTS	LF	5,876.000	76
	666	2035		REFL PAV MRK TY I (W) 8" (SLD)(090MIL) DOLLARS and CENTS	LF	556.000	77
	666	2047		REFL PAV MRK TY I (W) 24"(SLD)(090MIL) DOLLARS and CENTS	LF	55.000	78
	666	2053		REFL PAV MRK TY I (W) (ARROW) (090MIL) DOLLARS and CENTS	EA	4.000	79
	666	2095		REFL PAV MRK TY I (W) (WORD) (090MIL) DOLLARS and CENTS	EA	2.000	80
	666	2110		REFL PAV MRK TY I (Y) 4" (SLD)(090MIL) DOLLARS and CENTS	LF	7,644.000	81
	666	2125		REFL PAV MRK TY I (Y) 12"(SLD)(090MIL) DOLLARS and CENTS	LF	281.000	82
	666	2140		REFL PAV MRK TY I (Y)(MED NOSE)(090MIL) DOLLARS and CENTS	EA	1.000	83
	666	2145		REF PAV MRK TY II (W) 4" (SLD) DOLLARS and CENTS	LF	5,876.000	84

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2153		REF PAV MRK TY II (W) 8" (SLD) DOLLARS and CENTS	LF	556.000	85
	666	2157		REF PAV MRK TY II (W) 24" (SLD) DOLLARS and CENTS	LF	55.000	86
	666	2160		REF PAV MRK TY II (W) (ARROW) DOLLARS and CENTS	EA	4.000	87
	666	2173		REF PAV MRK TY II (W) (WORD) DOLLARS and CENTS	EA	2.000	88
	666	2178		REF PAV MRK TY II (Y) 4" (SLD) DOLLARS and CENTS	LF	7,644.000	89
	666	2183		REF PAV MRK TY II (Y) 12" (SLD) DOLLARS and CENTS	LF	281.000	90
	666	2188		REF PAV MRK TY II (Y) (MED NOSE) DOLLARS and CENTS	EA	1.000	91
	672	2012	034	REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	26.000	92
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	209.000	93
	677	2001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	22,232.000	94
	677	2007		ELIM EXT PAV MRK & MRKS (24") DOLLARS and CENTS	LF	10.000	95

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	ITEM NO	DESC CODE	S.P. NO.				
	1018	2001		TREE PROTECTION DOLLARS and CENTS	EA	3.000	96
	3224	2003		D-GR HMA(QCQA) TY-A PG64-22 DOLLARS and CENTS	TON	27.000	97
	3224	2008		D-GR HMA(QCQA) TY-B PG64-22 DOLLARS and CENTS	TON	1,236.000	98
	3224	2021		D-GR HMA(QCQA) TY-C SAC-B PG64-22 DOLLARS and CENTS	TON	1,340.000	99
	3224	2081		D-GR HMA(QCQA)TY-C OR D PG64-22(LVL- UP) DOLLARS and CENTS	TON	3.000	100
	5049	2005		BIODGRD EROSION CONTROL LOGS (4" DIA) DOLLARS and CENTS	LF	389.000	101
	6834	2002		PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS and CENTS	EA	3.000	102

Basis of Estimate

Item	Description	Rate **	Basis	Quantity
160	Topsoil	1 CY/7 SY	9676 SY	1382 CY
164	Seed for Erosion Cont	4840 SY/AC	14515 SY	3 AC
166**	Fertilizer (13-13-13)	1/8 LB/SY		
168	Vegetative Watering (Item 164)(Temp) (Item 164)(Perm)	20 GAL/SY 10 GAL/SY 20 GAL/SY	9676 SY 4839 SY	194 MG 48 MG MG
204**	Sprinkling (Dust) (Item 132) (Item 247)	30 GAL/CY 30 GAL/CY 30 GAL/CY		
210**	Roll (Flat Wheel) (Item 247) (Item 316)	1 HR/200 TON 1 HR/6000 SY		
210**	Roll (Tamping) (Item 132)	1 HR/200 CY		
210**	Roll (Heavy Tamp) (Item 132)	1 HR/200 CY		
210**	Roll (Lt Pneu Tire) (Item 132) (Item 247) (Item 316)(One Course)	1 HR/500 CY 1 HR/200 TON 1 HR/6000 SY		
247	FL BS (CMP IN PLC) (TY D GR 5) (TY D GR 5) (TY D GR 5)	132 LB/CF 3564 LB/CY 27 CF/CY	2098 CY	TON 3739 TON CY
310	Prime Coat (MC-30 or AE-P)	0.20 GAL/SY	7815 SY	1563 GAL
316	Surface Treatments One Course : (Tier III) Asph (HFRS-2) Aggr (TY D GR 4) Asph (AC 10-2TR) Aggr (TY (PB GR 4)	<u>Total</u> 0.42 GAL/SY 1 CY/115 SY <u>Total</u> 0.40 GAL/SY 1 CY/120 SY	5476 SY 6095 SY 5476 SY 6095 SY	2300 GAL 53 CY 2190 GAL 51 CY
3224	Dense-Graded Hot-Mix Asphalt (QC/QA) TY_B_ PG_64-22_	110 LB/SY/IN	7491 SY	1236 TON
3224	Dense-Graded Hot-Mix Asphalt (QC/QA) TY_C_ SAC-B_ PG_64-22_	110 LB/SY/IN	12182 SY	1340 TON

** For Informational Purposes Only

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References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved.

Do not place surface treatments or pavement when in the Engineer's professional judgment, the apparent general weather conditions are unsuitable for Overlay operations.

Remove and replace, at the Contractor's expense, and as directed, all defective work, which was caused by the Contractor's workforce, materials, or equipment.

Perform work during good weather unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

Accrue contract time charges through the Contractor's completion of the final punchlist.

Meet weekly with the Engineer to notify him/her of planned work for the upcoming week. Provide a three-week "look ahead," as well as all work performed over the past week.

Blade the side slopes to remove all grass from the area of construction before placing flexible base on that portion of the roadway to be widened, leveled-up, seal coated/surfaced treated, or Hot Mix Asphaltic Concrete Pavement (HMACP) overlaid. Blade the sod back onto the side slopes after the proposed items of work have been completed. Consider subsidiary to pertinent Items.

Equip all construction equipment used in roadway work with a permanently mounted 360° revolving or strobe warning light with amber lens. Light will have a minimum lens height and diameter of 5 inches and mounting height of not less than 6 feet above the roadway surface and be visible from all sides. Attach at each side of the rear end of the construction equipment an approved orange warning flag mounted not less than 6 feet above the roadway surface.

Overhead and underground utilities may exist in the vicinity of the project. The exact location of underground utilities is not known.

If working near power lines, comply with the appropriate sections of Local Legal Requirements, Texas State Law, and Federal Regulations relating to the type of work involved.

In the event of unforeseen utility adjustment, the Contractor will prosecute their work in such a manner and sequence as to facilitate the adjustments to be made.

Superelevate all curves to conform to the slope(s) of the existing curves, as directed. Consider subsidiary to the pertinent Items.

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Match existing cross slopes, as directed. Consider subsidiary to the pertinent Items.

Provide a smooth, clean sawcut along the existing asphalt pavement structure, as directed. Consider subsidiary to the pertinent Items.

Sweep, mow, and remove all litter on the right of way, within the project limits, to keep the jobsite in a neat and presentable condition at all times. Perform this work as directed.

Remove all construction debris and surplus material generated by the construction work within the project limits. Perform this work as directed. Consider subsidiary to the pertinent Items.

Trim vegetation around signs and other obstructions. Consider subsidiary to pertinent Items.

Supply litter barrels in enough numbers at locations as directed to control litter within the project. Consider subsidiary to pertinent Items.

Use a self-contained vacuum broom to sweep the roadway and keep it free of sediment, due to Construction of the Roadway, as directed. Consider this subsidiary to the pertinent Items.

Protect all areas of the right of way, which are not included in the actual limits of the proposed construction areas from destruction. Exercise care to prevent damage to trees, vegetation, and other natural surroundings. Areas not to be disturbed will be as directed. Restore any area disturbed because of the Contractor's operations to a condition as good as, or better than, before the beginning of work.

Damage to existing pipes and SET's due to Contractor operations shall be repaired at Contractor's expense.

All locations used for storing construction equipment, materials, and stockpiles of any type, within the right of way, will be as directed. Use of right of way for these purposes will be restricted to those locations where driver sight distance to businesses and side street intersections is not obstructed and at other locations where an unsightly appearance will not exist. The Contractor will not have exclusive use of right of way but will cooperate in the use of the right of way with the city and various public utility companies as required.

The project superintendant will be capable of speaking English and will be available on the project at all times when work is being performed, including subcontractor work. The superintendant will be available and on-call 24 hours a day.

Furnish, to the Engineer, a list of the final centerline elevations.

When directed, designate an official backer/spotter of "dump-man" who shall wear specially marked clothing and a specially marked hard hat which specifically identifies them as the

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backer/spotter and identifies that they are the person who is directing the backing operations. They shall be identified to all personnel, Contractor, and TxDOT, when dumping the various project materials, throughout the course of the project.

Storm Water Pollution Prevention Plan (SW3P)/Water Pollution Abatement Plan (WPAP) Notes

For projects in the recharge zone or contributing zone of Williamson, Travis and Hays Counties, plans must include the sheet titled "TCEQ Requirements for Recharge Zone of the Edwards Aquifer" or "TCEQ Requirements for Contributing Zone of the Edwards Aquifer." Compliance with the notes on these sheets is required for TCEQ construction approval. The Engineer will be the sole judge as to the timing of all installations. Work will not progress until the Engineer has approved each installation.

Maintain erosion control features according to the TxDOT SW3P sheet.

In the event that significant contamination is encountered based on odors, visual evidence, or vapor monitoring, immediately contact the Engineer in accordance with Item 4.3 of the General Provisions of the STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES. The Engineer may suspend work wholly or in part to determine the coordination/management for the testing, removal and disposal of hazardous materials that might be necessary according to all applicable rules, laws and regulations.

When any abandoned well is encountered, cease construction operations in this area and notify the Engineer who will coordinate the proper plugging procedures with Texas Commission on Environmental Quality (TCEQ).

Plug any drill holes, resulting from core sampling on-site or down-gradient of the site, with concrete from the bottom of the hole to the top of the hole so that water and contaminants are not allowed to enter the subsurface environment.

Restrict construction vehicles from traversing or utilizing existing roadways, unprotected construction areas, and areas with vegetative cover.

Maintain vehicles at designated maintenance sites, unless otherwise approved.

Transport any soils contaminated during construction of the proposed project from the site and properly dispose of off-site, off the recharge zone, and off any area draining to the recharge zone of the Edwards Aquifer.

Collect wastewater generated on-site by chemical toilets and transport off the recharge zone and dispose of properly.

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Suspend all activities near any significant recharge features, such as sinkholes, caves, or any other subterranean openings that are discovered during construction or core sampling. Do not proceed until the designated Geologist or TCEQ representative is present to evaluate and approve remedial action.

Locate aboveground storage tanks kept on-site for construction purposes over bermed impervious liners as to not allow any leakage into underlying soils. Additionally, the containment will be sized to capture 150% of the total volume of fluids stored on-site within the storage area.

No blasting will be allowed within 300 feet of a geologic feature of significant recharge potential, unless otherwise approved. Known locations of these features are available from the Area Engineer.

For all work over or near Bodies of Water (Lakes, Rivers, Ponds, Creeks, etc.):

Keep on hand Synthetic Absorbent Booms (Petroleum Sorbent Booms, Petroleum Socks, Absorbant Socks, etc.) and Absorbent Pads (Eversoak Sorbents, Industrial Absorbent Pads, Calicorp Absorbent Pads, etc.), both types, for spilled petroleum products, in enough quantity to mitigate a petroleum-type spill due to Contract work.

ITEM 4 – SCOPE OF WORK

Final cleanup will include the removal of excess material considered detrimental to vegetation growth along the front slope of the ditch. Materials such as surface aggregates and other materials as specified by the Engineer will be removed at the Contractor's expense.

ITEM 5 – CONTROL OF THE WORK

Before Contract letting, bidders may obtain from the Engineer's office, the earthwork information. If copies of the actual cross-sections (paper copies) 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 bidder's expense. In addition, cross-sections will be available in electronic format, upon request, at no cost to the bidder.

RDS or GEOPAK earthwork output listings for this project are available upon request, on diskettes, at the Area Engineer's office.

Mark and maintain 100-foot station intervals for the duration of the project. Consider subsidiary to pertinent Items.

Electronic Shop Drawing Submittals:

Submit Electronic Shop Drawing Submittals according to the current **Guide to Electronic Shop Drawing Submittal** (GESDS). For instructions on submitting shop drawings electronically go to

TxDOT website (Business with TxDOT > Bridge Information > Shop Drawings. File is titled: **Guide to Electronic Shop Drawing Submittal.**

For information on the electronic shop plan process, please visit the Bridge Division/Fabrication Branch web pages at:

http://www.txdot.gov/business/contractors_consultants/bridge/shop_drawings.htm

The Guide to Electronic Shop Drawing Submittal at:

ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf

and the Submittal Requirements table at:

ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/electronic_submissions.pdf

have been updated to include additional guidance on segmental bridge submittals

1. In the E-mail “To:” box place the E-mail address to the following:

Submit all Shop Drawings (and Working Drawings, if/when required), which do not require direct submittal to the **Bridge Division Fabrication Section**, electronically, to the following address: AUSSA-ShopReview@dot.state.tx.us , attention David Klipple

Consultant E-Mail Contact: wchamber@ch2m.com

2. In the e-mail “CC:” or “Copy To:” box place the following E-mail addresses:

In every e-mail submittal, the “CC:” or “Copy To:” line of the header will include the following e-mail addresses:

a. Contractor’s Contact:

AND

b. Area Office Contact:

South Austin Area Office, David Klipple, DKLIPPL@dot.state.tx.us,
AUSSA-ShopReview@dot.state.tx.us

ITEM 6 - CONTROL OF MATERIALS

Article 6.5

Give a minimum of 24 hours notice for materials, which require inspection at the plant.

ITEM 7 – LEGAL RELATIONS AND RESPONSIBILITIES

Article 7.19

Do not initiate activities in a Project Specific Location (PSL) associated with a U.S. Army Corps of Engineers (USACE) jurisdictional area that have not been previously evaluated by the USACE as part of the permit review of this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here

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means materials are delivered to or from the PSL. The jurisdictional area includes all waters of the U.S. including wetlands or associated wetlands affected by activities associated with this project. Special restrictions may be required for such work. Consult with the USACE regarding activities, including Project Specific Locations (PSLs) that have not been previously evaluated by the USACE. Provide the Department with a copy of all consultations or approvals from the USACE before initiating activities.

Proceed with activities in PSLs that do not affect a USACE jurisdictional area if a self-determination has been made that the PSL is non-jurisdictional or proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. Document any determinations that their activities do not affect a USACE jurisdictional area. Maintain copies of their determinations for review by the Department or any regulatory agency.

The Contractor must document and coordinate with the USACE, if required, before any excavation hauled from or embankment hauled into a USACE jurisdictional area by either (1) or (2) below.

(1) Restricted Use of Materials for the Previously Evaluated Permit Areas.

Document both the project specific location (PSL) and their authorization. Maintain copies for review by the Department or any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project:

- a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110, Excavation, is used for permanent or temporary fill (Item 132, Embankment) within a USACE jurisdictional area;
- b. Suitable embankment (Item 132) from within the USACE jurisdictional area is used as fill within a USACE evaluated area; and,
- c. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of at an approved location within a USACE evaluated area.

(2) Contractor Materials from Areas Other than Previously Evaluated Areas.

Provide the Department with a copy of all USACE coordination or approvals before initiating any activities in a jurisdictional area within the project limits that has not been evaluated by the USACE or for any off right of way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites:

- a. Item 132, Embankment, used for temporary or permanent fill within a USACE jurisdictional area; and,
- b. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

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The total area estimated to be disturbed for this project is 3.45 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the local government that operates a separate storm sewer system.

Do not park equipment or make stockpiles where driver sight distance to businesses and side street intersections is obstructed, especially after work hours. If it is necessary to park where drivers' views are blocked, make every effort to flag traffic accordingly. Give the travelling public first priority.

Maintain positive drainage for permanent, as well as, temporary drainage for the duration of the project. This work is the sole responsibility of the Contractor. Construct temporary and permanent drainage systems prior to the placement of temporary pavement, when possible, but absolutely prior to the placement of permanent pavement. Be responsible for any items associated with the temporary/interim drainage and all related maintenance. No direct payment will be made for this work. The Engineer will have the final authority in determining the adequacy of any temporary/permanent drainage features installed.

Migratory Birds

The Contractor's attention is directed to the fact that there is the possibility that migratory birds may be nesting within the project limits. Migratory bird nesting activity can be concentrated on roadway structures such as bridges and culverts. Remove all old migratory bird nests from any structures between September 1 and January 31, and while the nests are not occupied or being used by migratory birds. In addition, be prepared to prevent migratory birds from re-nesting between February 1 and August 31.

All methods used for the removal of old bird nests and the prevention of re-nesting must be approved by the Austin District Biologist, well in advance of the planned use.

In the event that any active nest of a migratory bird species is encountered on-site during project construction, all construction activity within 150 feet of the nest will cease immediately. Contact the District Biologist to determine how to proceed.

No blasting on this project.

ITEM 8 – PROSECUTION AND PROGRESS

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Working days will be computed and charged in accordance with Article 8.3.A.4 Standard Workweek.

Article 8.3C

Work is allowed to be performed during the nighttime, with prior approval.

ITEM 9 – MEASUREMENT AND PAYMENT

POLICE OFFICERS – FORCE ACCOUNT

Provide full-time, off-duty, uniformed, certified peace officers in officially marked vehicles, as part of traffic control operations, as directed.

Show proof of certification by the Texas Commission on Law Enforcement Standards.

No payment will be made for peace officers unless the Contractor completes the proper Department tracking form. Submit invoices that agree with the tracking form for payment at the end of each month, when approved services were provided. Request the tracking form from the Department.

No payment for officers used for moving equipment without prior written approval.

Cancel “Off-Duty” Peace Officers and their Motor Vehicle Units when the Scheduled lane closures are canceled. Failure to cancel the Off Duty Officers and their respective Motor Vehicle Units will not be cause for payment, by TxDOT, for “Show Up” time.

ITEM 100 - PREP ROW

Treat cuts on trees with an approved tree wound dressing within 20 minutes of making a pruning cut or otherwise causing damage to the tree, as directed. Consider subsidiary to the pertinent Items.

ITEM 100, 132 & 160 - PREP ROW, EMBANKMENT, & TOPSOIL

Do not burn brush, unless otherwise approved.

Use hand methods or other means to remove objectionable material and obstructions, if doing work by mechanical methods is impractical. Consider subsidiary to the pertinent Items.

ITEM 110 & 132 – EXCAVATION & EMBANKMENT

Unsuitable material encountered in a cut or fill section will be considered waste. The Engineer will define unsuitable material. Material, which the Contractor might deem to be unsatisfactory or unsuitable, due to moisture content, will not be considered unsuitable material, unless otherwise approved.

ITEM 132 - EMBANKMENT

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The Engineer must approve the embankment material before use on the project.

For Ty "C" embankment, a maximum PI of 20 and a minimum PI of 6 will be required. Embankment within two feet of the pavement base course should not contain sulfate contents greater than 3000 ppm, if the embankment will be treated.

The Engineer must approve the embankment material before use on the project.

Stockpile Ty C embankment at an approved location until it meets all testing requirements. The stockpile must be between 500 CY and 5000 CY and must not exceed a height of 15 ft.

Provide a test report from a Department approved lab prior to requesting the Department to test the material.

Work to correct unstable material (e.g. dry, wet, loose, etc.) to a depth of 6" below existing subgrade elevation, prior to beginning any embankment placement. Consider subsidiary to the various bid Items. Any work to correct unstable material below the 6" depth, below existing subgrade elevation, will be paid as extra work. However, there will be no payment to correct failures, in the subgrade areas, that were constructed under this contract.

Track ALL embankment slopes left idle for more than 14 days, within or at the end of the 14-day idle period, to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slope, leaving track marks perpendicular to the direction of the slope. Retrack slopes after rain event, as directed. Consider tracking of slopes to prevent erosion as subsidiary to the pertinent Items.

Correct subgrade (e.g. unstable areas, soft spots, etc.) prior to the dumping of Flexbase or HMA CP. Consider subsidiary to the pertinent Items.

Scarify and re-compact existing asphaltic/base sections, which are not called out to be removed in fill sections, where the bottom of the proposed pavement structure is higher than and over the top of the existing asphalt surface, in order to reduce the possibility of a slip plane.

ITEM 160 - TOPSOIL

Obtain approval of all topsoil sources before digging begins. Ensure off-site topsoil has a minimum PI of 25, or as directed. Ensure that the topsoil placed is similar to the topsoil that is within the project. To the extent possible, obtain as much of the topsoil from within the project site, or as directed. TxDOT reserves the right to take samples, as needed, to assure that the material meets the PI and other requirements as indicated in the Specifications (Fertility, Organics, Erodability, etc.).

No Sandy Loam allowed, unless the project dictates otherwise.

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Obtain approval of the actual depth of the topsoil sources for both on-site and off-site sources.

Construct topsoil stockpiles of no more than five (5) feet in height.

It is permissible to use topsoil dikes for erosion control berms within the right of way, as directed.

Track ALL topsoiled slopes left idle for more than 14 days, within or at the end of the 14-day idle period, to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slope, leaving track marks perpendicular to the direction of the slope. Retrack slopes after rain event, as directed. Consider the tracking of slopes to prevent erosion as subsidiary to the pertinent Items.

Upon final grading, immediately track all topsoiled slopes to prevent erosion, prior to seeding operations, as directed. Consider subsidiary to the pertinent Items.

Provide measurements for payment of topsoil quantities before seeding. Consider subsidiary to the pertinent Items.

Place Topsoil in accordance with the SW3P, in phases, as partial completion of the roadway is obtained.

Windrowing of topsoil obtained from the Right of Way (ROW) is not allowed. Pick up and place in an approved, central location, for distribution at a later date.

ITEM 164 – SEEDING FOR EROSION CONTROL

Obtain vegetation establishment of all seeded areas, including adequate coverage, prior to “Final Acceptance.” If all other work is complete, time charges may be suspended, until adequate coverage is established.

Do not use ryegrass for temporary cover.

Reseed all areas with “little or no” grass growth after 1 month from the last seeding date, as directed. Consider subsidiary to the various bid items.

Provide measurements for payment of seeding for erosion control quantities before seeding. Consider subsidiary to the pertinent items.

ITEM 166 – FERTILIZER

Use 13-13-13 fertilizer analysis, unless otherwise directed. Take soil samples, as directed, to determine the actual soil needs for fertilizer. Consider this work subsidiary to pertinent Items.

ITEM 168 – VEGETATIVE WATERING

Water all areas of project to be seeded or sodded.

Maintain the seedbed in a condition favorable for the growth of grass. Watering can be postponed immediately after a rainfall on the site of ½ inch or greater, but will be resumed before the soil dries out. Continue watering until final acceptance.

Vegetative watering rates and quantities are based on ¼ inch of watering per week over a 3-month watering cycle. The actual rates used and paid for will be as directed and will be based on prevailing weather conditions to maintain the seedbed.

Obtain water at a source that is metered or furnish the manufacturer’s specifications showing the tank capacity for each truck used. Notify the Engineer, each day that watering takes place, before watering, so that meter readings or truck counts can be verified.

ITEM 169 – SOIL RETENTION BLANKETS

Provide machined mat of curled wood excelsior of 80%, six-inch or longer fibers. The top of each blanket is covered with a photodegradable extruded plastic mesh. Typical weight = 0.975 lbs/sq yd; typical roll width = 48 or 96 inches; typical roll length = 90 feet. This soil retention blanket should meet the previous stated requirements, equal, or better as approved.

Use materials from prequalified material producers list as shown on the Texas Department of Transportation (TxDOT) ----- Construction Divisions (CST) materials producers list. See TxDOT website ([www.txdot.gov/Business with TxDOT > Materials Information > Material Producer List](http://www.txdot.gov/Business%20with%20TxDOT%20>%20Materials%20Information%20>%20Material%20Producer%20List)) for list of pre-qualified manufacturers. Direct all questions to the Maintenance Division, Vegetation Management Section, 125 E. 11th Street, Austin, TX 78701-2483.

ITEM 204 - SPRINKLING

Apply water for dust control as directed. When dust control is not being maintained, cease operations until dust control is maintained. Consider subsidiary to the pertinent Items.

ITEM 216 - PROOF ROLLING

Correct and perform “Proof Rolling” retest at the Contractor’s expense, to the satisfaction of the Engineer, when initial “Proof Rolling” yields a failing result.

ITEM 247 - FLEXIBLE BASE

Material Requirements

Use Flexible Base (Type “D” Grade 5) with a minimum PI of zero (0).

The following table will govern the acceptance of compaction on base courses, when compacted in multiple courses. Compaction requirements are in percent of maximum dry density as determined by (Tex-113-E). When compacting in a single course, compact to at least 100% of maximum dry density as determined by Tex-113-E.

		All Roadways
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Item	Material		
Item	FL BSN (CMP IN PLC)	1	98%
		2 (final lift)	100%

Use Type “D” material.

Correct subgrade (e.g. unstable areas, soft spots, etc.) prior to the dumping of Flex Base. Consider subsidiary to the pertinent Items.

Use Flex Base (CMP IN PL) (TY D GR 5) for driveways, minor streets, and other locations as directed.

Roll shoulder base with a light pneumatic roller to prevent erosion.

Complete all subgrade, ditches, slopes, and place all drainage structures to conform to required lines, grades, and cross-sections, as shown and directed, prior to the placement of Flex Base.

ITEM 300 – ASPHALTS, OILS, AND EMULSIONS

Asphalt season starts April 1 and ends October 31.

ITEM 302 – AGGREGATES FOR SURFACE TREATMENTS

Previously tested aggregates delivered to the project, which are found to contain excessive quantities of dust (more than 0.5 percent passing the no. 40 sieve) during pre-coating, stockpiling or hauling operations, will be rejected, unless otherwise directed. Use test method Tex-200-F, Part II, for testing.

Article 302.2. Materials, Section A. Aggregate. Table 3 Los Angeles abrasion, % max, is revised with the following requirement:

Table 3

Aggregate Quality Requirements

Property	Test Method	Requirement	Requirement
Los Angeles abrasion, %, max	Tex-410-A	30	All aggregates

ITEM 310, 316, 3224

Perform work during good weather unless otherwise directed. If work is performed at Contractor’s option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

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ITEM 310 – PRIME COAT

Apply blotter material to all driveways and intersections.

Use bituminous material of the type MC-30 or AE-P.

Any oil or asphaltic material being paid for on the project shall use tank strap method as shown in TxDOT Seal Coat and Surface Treatment Manual 2004-1.

ITEM 316 – SURFACE TREATMENTS

Do not apply asphalt within 1½ hours of sunset, or later, unless otherwise directed.

Ensure the accuracy of the Distance Measuring Instrument (DMI) with the Engineer, prior to marking the Asphalt and Rock Land shots.

Ensure Surface Treatment/Seal Coat Operations are covered by HMA CP before the workers leave the project, for that particular day's work, as directed.

Ensure the minimum aggregate surface classification is class B.

Surface all transitions, tapers, climbing lanes and intersections to the limits as directed.

Keep all traffic, including construction traffic, off freshly placed surface treatment, as directed.

Distribution to each control section will be proportioned to the volumetric quantity as shown on the "daily road report."

Any oil or asphaltic material being paid for on the project shall use tank strap method as shown in TXDOT Seal Coat and Surface Treatment Manual 2004-1.

All transports will have a seal affixed at the point of origin. The Engineer will be present when the seal is broken on the Transport and will accept the shipping tickets and make distribution to the Contractor.

Be diligent about sweeping excess aggregate from seal coat projects one to two weeks after completing the work, and performing additional sweeping of shoulders if necessary to remove loose aggregate or debris after the job is completed.

ITEM 3224 (HMACP Testing)

The Contractor must sample asphalt binder, in accordance to the applicable item. Label the sample can with the corresponding CSJ, lot, and subplot numbers.

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Samples must be stored in a common area where they are readily available to the TxDOT representative at the plant. The Contractor will be responsible for supplying storage for all samples. Retain all asphalt samples until directed otherwise.

When directed, the Contractor is responsible for disposal of all asphalt binder samples, in accordance to Local, State, and Federal regulations.

Hot Mix Asphaltic Conc (HMAC) Core Holes

Refill and compact all HMAC core holes to the same elevation as the adjacent roadway. Use Instant Roadway Repair® manufactured by International Roadway Research, 14702 Marine Road, Humble, TX 77396, phone # 1-800-837-4806, or equivalent, as directed. Consider this work subsidiary to the pertinent Items.

ITEM 3224

Transition from the new ACP to the existing surface tie-in by utilizing a required milled transition to a vertical butt joint. Make the transition a minimum of 50 feet H: 1 inch V slope ratio of newly placed ACP. Make the temporary joint, at the tie-in, a minimum of a “3-paper-taper” longitudinally and covering the entire width. Sawcut existing pavement as directed. Prior to milling, core the existing pavement to determine its thickness. Do not proceed with milling until directed. Consider this work subsidiary to the pertinent Items.

ITEM 3224 - DENSE-GRADED HOT-MIX ASPHALT (QC/QA)

- Provide mixture Type A using PG binder 64-22.
- Provide mixture Type B using PG binder 64-22
- Provide mixture Type C using PG binder 64-22

Use aggregate meeting a Surface Aggregate Classification (SAC) requirement of **B** for surface course mixtures.

Aggregates used on shoulders and ramps are required to meet SAC requirements.

Target laboratory molded density is 96.5% for all mixtures without RAP and when using a Texas Gyratory Compactor (TGC) for designing the mixture.

When using RAP in a mixture, the target laboratory molded density is 96.5% for PG 64-22 mixtures and 97% for mixtures using PG 70-22 or higher for TGC mixture designs.

When using Superpave Gyratory Compactor (SGC) to design mixtures, submit the SGC mix design to the Engineer for approval.

All mixtures must meet the Hamburg requirement as stated in the table below.

High-Temperature	Test Method	Hamburg Wheel Test Requirements¹
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Binder Grade		Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F
PG 64 or lower	Tex-242-F	7,000
PG 70	Tex-242-F	15,000
PG 76 or higher	Tex-242-F	20,000

1. The Engineer may accept Hamburg Wheel test results for production and placement if no more than 1 of the 5 most recent tests is below the specified number of passes and the failing test is no more than 2,000 passes below the specified number of passes.

Complete all roadways before final surface course placement, unless directed otherwise.

Ensure placement sequence to avoid excess distance of longitudinal joint lapback not to exceed one day's production rates.

Use a device to create a maximum 3H: 1V notched wedge joint on all hot mix joints of 2 in. or greater. Consider subsidiary to the pertinent Items.

Submit any proposed adjustments or changes to a job mix formula to the Engineer before production of the new job mix formula.

Tack every intermediate layer, unless otherwise directed. Do not dilute tack coat. Apply it through a distributor spray bar in accordance with Article 316.3(A) Distributor.

When surface irregularities, as defined in Article 341.4.I.3.c(5), "Irregularities", are detected or measured, the Contractor must take immediate corrective action defined as the removal and replacement of a full lane width of the defective area using a paver to place new mix, unless otherwise directed. If there are multiple defective areas within a subplot, making up to 30% of the subplot by area, the Engineer will require the entire subplot be removed, unless directed otherwise.

Provide a minimum transition for all side streets of at least 12 feet and driveways of at least six (6) feet, unless otherwise shown on the plans or otherwise approved/directed.

Submit thermal and segregation profiles as well as longitudinal joint densities on electronic forms provided by TxDOT.

ITEM 400 - EXCAVATION AND BACKFILL FOR STRUCTURES

Obtain approval of all compaction equipment prior to all backfilling and embankment operations.

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Use Class "B" sand bedding for pipe and box culvert installation unless otherwise directed.

Cut pavements with the use of a saw as directed. Consider subsidiary to pertinent items.

ITEM 421 – HYDRAULIC CEMENT CONCRETE

Over-design requirements for compressive strength are waived for non-structural concrete, as defined in Table 5, Item 421.4. Construction. A.

Minimum air-entrainment requirements are waived for all classes of concrete, except for Class S, DC, or CD concrete. For all classes of concrete, except for Class S, P, DC or CD concrete or non-structural concrete, as defined in Table 5, the entrained air content must not exceed 8% air.

For all non-pavement applications using Class S, DC, or CD concrete, target 5.5% entrained air. If the air content exceeds the target air content by more than 3 percentage points, the load of concrete will be rejected.

ITEM 423 – RETAINING WALLS

Inlet drains behind retaining walls in flumed areas will be Neenah R-3924 or equal. Other designs may be substituted only with the permission of the Engineer. Per plans, such inlets are subsidiary to the retaining wall bid item as well as all piping to tie into storm drains and connecting to the storm drains.

Drill, epoxy, and place #4 bars @ 12 inch centers, as directed, to tie the riprap & riprap flume to the MSE Wall Coping.

Measure surface area of retaining wall between finished grade at top of wall, including coping, and estimated/proposed ground line shown on the plans plus one (1) foot.

Immediately backfill the face of the retaining wall after the wall height gets above the final grade in front of the wall.

Do not measure any footing adjustments made to accommodate the available optional designs. Supply the retaining wall fabricators with the drainage plans and large guide sign plans. Ensure the wall design accommodates the construction of inlets, conduit, and any other large drainage structure as shown on the plans.

Use the approved Mechanically Stabilized Earth (MSE) Wall Systems listed at: http://www.txdot.gov/business/contractors_consultants/bridge/retaining_wall.htm

Two feet either side of the width of the leveling pad must be compacted to meet ordinary compaction standards prior to placement of the leveling pad.

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Verify each row of panel placement for specification tolerances after backfilling is accomplished and prior to placement of the next row of panels. Correct to within tolerance prior to placing subsequent rows of panels. Notify when a tolerance check is needed.

At no time will the retaining wall backfill material exceed the adjacent embankment operation by more than one embankment lift.

Build the wall backfill material a minimum of 24 inches horizontally beyond the end of the wall reinforcement. Compact it in accordance with 423.3.

Use a "modified" Ty "B" backfill material according to the following table:

Type	Sieve Size	% Retained
"B" mod	3 in.	0
	No. 4	85-100

Particles larger than ¼ inch will be angular or crushed. Rounded rock or gravel will not be allowed.

Retaining wall coping placement will be such that the outside face of the wall panels are not offset from the inside face of coping by more than 1½ inches.

Seal all form liner joints, in a manner acceptable to prevent leakage at the surface.

Consider surface finishes for concrete subsidiary.

Follow form liner manufacturer’s recommended procedures for form liner construction.

The form liner will release clean and free of the concrete, without pulling or breaking concrete from the textured surface.

All MSE retaining wall panels will receive a textured concrete surface treatment using the custom form liner as shown in the plans. The custom form liner pattern provided by the contractor will be subject to approval.

MSE retaining walls shall include a form liner on the exterior face extending from a minimum of 6” above the bottom of coping to a minimum of 12” below finish grade.

Form liner shall consist of #1103 rustic ashlar elastomeric form liner as manufactured by Custom Rock Formliner, 2020 West 7th Street, St. Paul, MN 55116, phone (651) 699-1345, or approved equal.

Any approved equal shall be a minimum of 1 ¼” in relief and shall approximate the appearance shown in the plans. A minimum of 3 different panels must be created.

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Shop drawings will show typical placement and sequence of panels in a random fashion so that pattern does not repeat on adjacent panels in any direction.

Form liner and surface finish will not be paid for separately, but will be considered subsidiary to the unit price paid for this item.

Provide a 5' x 10' test panel representative of the texture for the custom form-liner surface finish prior to beginning precast operations. The surface texture will be subject to approval. If directed, construct additional test panels until a satisfactory surface treatment is obtained. Retain the approved test panels for use as standards of comparison for the production of the retaining wall panels. Consider subsidiary to the pertinent Items.

Upon approval of test panel, use the approved form liner throughout the project.

MSE panels shall be finished in accordance with ITEM 427 – SURFACE FINISHES FOR CONCRETE.

ITEM 427 – SURFACE FINISHES FOR CONCRETE

Concrete surfaces as defined by Item 427.4.A.1, “Surface Area I” shall receive a rub finish as defined in Item 427.4.B.2b, “Rub Finish”.

The following concrete surfaces will receive an opaque concrete sealer. A single color complimentary to the colors required for the coloration of the form liner stones will be used. A color sample will be submitted to the Hays County Pct. 4 Commissioner, or approved representative, for approval 30 days prior to commencing concrete surface finishing operations the MSE walls or structural plate arch structure.

- Inside, outside and top face of rail curb;
- Inside, outside and top face of MSE wall coping;
- Portions of structural plate arch headwalls not receiving form liner.

MSE wall panels and structural plate arch headwall areas receiving the rustic ashlar form liner will receive a color concrete stain system.

Contractor is directed to the existing stone work around the current low water crossing and neighborhood sign located on Crystal Hill Drive just off RM 1826 in Hays County, Texas. This stone work will serve as the prototype (“Referee Wall”) for the determination of acceptable results for the Contractor’s work on this project. A color photograph will be provided at Contractor’s request.

The work for stained concrete surfaces shall be supervised by a foreman having a minimum of five years experience with material and methods required for providing these services. The Contractor shall furnish evidence of qualification to the satisfaction of the Engineer prior to commencement of work.

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The concrete penetrating stain will be a light-stable, alkali-resistant, water base solution commercially manufactured for an exterior concrete surface to match the transparency, mottle, colors and finish in accordance with "Referee Wall".

All simulated stone surfaces that are to be stained will be a minimum of 30 days old. Surfaces will be cleaned prior to application of stain materials to remove latency, dirt, dust, grease, efflorescence, paint or other foreign material.

Colors will be applied by a combination of hand wiping, spraying, sponging, brush painting, ragging or other methods approved by the Engineer, with as many layers and patterns necessary to achieve believable coloration within masonry and natural random variation from masonry to masonry.

The Contractor will provide a sample panel (5' x 5' minimum) on-site demonstrating the form liner and color treatment for approval by the Hays County Pct. 4 Commissioner, or approved representative, a minimum of 30 days prior to commencing concrete surface finishing operations the MSE wall or structural plate arch structure. Adjustments will be made at no expense to the State until a final color is produced that reasonably complies with color of the "Referee Wall".

Concrete Surface finish will not be paid for separately, but will be considered subsidiary to the unit price paid for this item.

ITEM 432 & 467

Remove all loose formwork and other materials from the floodplain or drainage areas, daily, which could float off in a stormwater event, as directed.

ITEM 432 - RIPRAP

Make 5-inches thick unless otherwise noted or directed.

Make all mowstrip riprap 4-inches thick, unless otherwise directed.

Where any proposed riprap joins existing riprap, saw cut the existing riprap and dowel/epoxy the joint as directed. Consider subsidiary to the pertinent Items.

Additional riprap may be required, as determined by the Engineer, near the end of project completion, due to unanticipated erosion locations. Any additional, approved riprap will be paid under this Item.

Consider saw cutting of riprap as subsidiary.

ITEM 461 – STRUCTURAL PLATE ARCHES

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Headwalls for structural plate arches shall include a form liner on the exterior face extending from the top of the headwall to a minimum of 12" below finish grade.

Form liner shall consist of #1103 rustic ashlar elastomeric form liner as manufactured by Custom Rock Formliner, 2020 West 7th Street, St. Paul, MN 55116, phone (651) 699-1345, or approved equal.

Any approved equal shall be a minimum of 1 ¼" in relief and shall approximate the appearance shown in the plans. A minimum of 3 different panels must be created.

Shop drawings will show typical placement and sequence of panels in a random fashion so that pattern does not repeat on adjacent panels in any direction.

Steel arch structures of the size and shape specified in the plans may be obtained from one of the following suppliers:

Contech Construction Products Inc.
9025 Centre Pointe Drive, Suite 400
West Chester, Ohio 45069

Big R Bridge Corporate
P.O. Box 1290
Greeley, Colorado 80632-1290

ITEM 464 & 467

Place FLOWABLE FILL in areas, underneath the Roadway, where there will be less than 3 feet of depth from top of pipe or structure to the subgrade elevation. Payment made under Item 401. (

ITEM 467 - SAFETY END TREATMENT

Cut pipe ends, in the field, to match roadway side slopes, or as directed. Apply asphalt base aluminum paint to the cut ends.

All Type II SET's shall have mitered pipe ends and cast-in-place riprap aprons.

ITEM 496 - REMOVING STRUCTURES

The Contractor's attention is directed to the fact that migratory birds tend to concentrate nesting on transportation structures. If migratory bird nests are present within the project limits, remove all old migratory bird nests only between September 1 and January 31 from

any structure where work will be done. In addition, be prepared to prevent migratory birds from building nests between February 1 and August 31.

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All methods used for the removal of old bird nests and the prevention of re-nesting must be approved by the Austin District Biologist, well in advance of the planned use.

In the event that any active nest of migratory birds is encountered on-site during project construction, all construction activity within 150 feet of the nest will cease immediately. Contact the District Biologist to determine how to proceed.

ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING

The Area Engineer (AE) is the authority to approve additional lane closures, prior to any work.

Maintain a written record of documentation of “The Additional Approved Lane Closures.”

One lane will remain open, in each direction, at all times, unless otherwise shown on the plans or as approved by the AE.

Notify the Inspector so that they can notify Combined Transportation, Emergency, and Communications Center (CTECC) Public Affairs Office, prior to implementing any “Approved Lane Closure” for a State Highway or Roadway. Provide notice no later than 2:00 PM (Central Time) and at least 24 hours prior to the closure.

Provide Advance Notice of the Actual Lane Closure(s), on the Day (Night) of the Closure(s), to the TxDOT Inspector so that they can notify CTECC. Also, immediately upon removal of the Closure(s) provide notice to the TxDOT Inspector for them to notify CTECC.

Submit and secure concurrence, prior to the publication of any notices or placement of any traffic control devices for implementation of the traffic control plan, hereinafter called a Lane Closure Notice (LCN).

Present to TxDOT, an LCN for traffic control, which is proposed for implementation, a minimum of four (4) full working days preceding any proposed implementation date. Indicate the estimated date, time, duration, and location for the proposed work. Submit a written Traffic Control Plan (TCP) depicting exact traffic control device locations and referencing the appropriate plan sheet, TxDOT or TMUTCD standards, an operational description of the work to be performed, and the reason that traffic must be affected.

Present to TxDOT, LCN’s proposed to detour traffic, a minimum of *seven (7)* full calendar days preceding any proposed implementation date.

Present to TxDOT, LCN’s proposed for night work, a minimum of *seven (7)* full calendar days preceding any proposed implementation date.

Receive concurrence prior to LCN implementation.

Meet with the Engineer prior to roadway and lane closures to ensure that sufficient equipment, materials, devices, and workers will be used. Discuss contingency plans at that time. Consider inclement weather prior to implementing the lane closures.

Submit a cancellation of any lane closures, no later than noon on the day preceding the proposed work.

Take immediate action to modify Closures / Traffic Control, if at any time backup (roadway queuing) becomes unreasonable (greater than 20 minutes). Have in place, a contingency plan of how this will occur.

Do not set up any Lane Closure / TCP when the pavement is wet prior to the “setup,” unless otherwise directed. Revise Traffic Control, when inclement weather is imminent, as directed.

Incorporate and maintain a 3H: 1V safety wedge into the proposed construction for any roadway edge of 2 inches or greater adjacent to a roadway under traffic.

Within the limits of the project, provide standard barricades, warning signs, delineators, lights, 28-inch cones, and flaggers in enough numbers and combinations, as directed.

Use a minimum of 2 flaggers, 2 advance warning flashing arrow panels (TY C), 2 of each signs CW20-5R or CW20-5L with appropriate distance plaques and CW9-2R or CW9-2L and 28-in. cones at each location in which milling or paving operations are in progress. Maintain at least 1 lane of traffic in each direction during paving or milling operations. Maintain at least the minimum numbers of lanes as directed.

Table 2 --- Definition of Peak and Off-Peak Hours

Roadway	Peak Hours	Off-Peak Hours
Main Lanes	<u>6:00</u> AM to <u>8:00</u> PM All Days	<u>8:00</u> PM to <u>6:00</u> aM All Days

No closures will be allowed on the weekends, which include the following holidays: January 1, the last Monday in May, July 4, the first Monday in September, the fourth Thursday in November, December 25, Easter weekend, and the working day prior to or immediately after any of the aforementioned holidays. Unless otherwise approved, no closures will be allowed on the weekends of special events that could be impacted by the construction. Ensure all equipment, vehicles, workers, etc., associated with these closures are off the roadways and all lanes re-opened, at least, by noon of the Friday before these holidays and special events.

No lane closures on the roadway that significantly reduce the level of service.

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Place **TWO** “Electronic” Portable Changeable Message Signs (EPCMS) at locations requiring lane closures for one-week prior to the closures, or as directed. Obtain approval for the actual message that will appear on the boards. If more than two phases of a message are required per board, provide additional EPCMS’s to meet the two-phases-per-board requirement. Consider subsidiary to the pertinent Items.

Use advance warning flashing arrow panels for the closing of traffic lanes. Furnish one stand-by unit, in good working condition at the jobsite, ready for immediate use.

Maintain access to all streets and driveways at all times, unless otherwise approved. Consider subsidiary to the pertinent Items.

Furnish advisory speed signs in enough numbers as directed.

Maintain enough workers to revise traffic control as directed.

Provide a “Downstream” Buffer Space ($\approx 100'$ per lane with devices spaced at $\approx 20'$) for each lane closure setup, as directed.

Maintain construction-warning signs, which are needed for longer periods than what is shown on the traffic control plan or as directed. Consider subsidiary to the pertinent Items.

Cover or remove any existing sign(s), which conflict with temporary traffic control operations. Install all permanent signs, delineation, and object markers necessary for the operation of any roadway before opening that section of roadway to traffic, regardless of the phase during which the roadway construction occurs. Erect the signs on temporary mounts until the permanent mounts are installed. Consider any costs associated with the temporary mounts subsidiary. Repair or replace any signs, which are damaged by the Contractor’s operations during construction or which are deemed not sufficient. The Engineer will be the sole judge of the adequacy of the sign(s). Consider this work subsidiary to the pertinent Items.

Secure a 28-inch cone on top of any foundations that have protruding studs during construction. The cones will meet the specifications listed on BC (10)–07. In addition, they will be reflectorized, as described. All labor and materials will be considered subsidiary to the pertinent Items.

Provide 3 “electronic” Portable Changeable Message Signs (EPCMS) as part of the traffic control operations, consider one as backup. All EPCMS will be exclusive to the project, unless otherwise approved.

Maintain Sandbags that are used for ballast, as directed. Consider subsidiary to the pertinent Items.

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To determine an advisory speed limit to post for various curves and ramps within this project notify the Engineer in order for them to contact the Austin District Traffic Office @ (512) 832-7000.

Off Duty Policy Officers will be used for this project and paid for by Force Account.

ITEM 504**Asphaltic Material Testing Facility**

Furnish a Type D structure for the asphalt mix control laboratory for the Engineer's exclusive use. Ensure the floor has enough strength to support the testing equipment and has an impervious covering.

Ensure the Type D structure has adequate air conditioning and is furnished with a minimum of one desk, three chairs, one file cabinet, a telephone, and one built-in equipment storage cabinet for the storage of nuclear equipment. The cabinet will be a minimum of 3-ft wide by 2-ft deep by 3-ft high and will have provisions for locking securely. Provide the structure with a 240-volt electrical service entrance. Provide a minimum of four 120-volt circuits with 20-amp breakers and at most two grounded convenience outlets per circuit and provisions for a minimum of two 220-volt ovens with vents to the outside. Provide a minimum of two convenience outlets per wall and a utility sink with an adequate clean potable water supply for testing. Space heaters for heating the structure are unacceptable. Support block portable structures for stability and tie down.

Provide an ignition oven for the use of the Department to determine asphalt content in accordance to Tex-236-F. Provide other laboratory equipment as directed.

Provide the Department and their representative a computer meeting the minimum specification requirements in DMS 10101 "Computer Equipment." Provide a color printer no older than two years old. The operating system must be Microsoft XP-SP2, unless directed otherwise. Provide DSL or better internet service. Computer must have at least two front USB ports. Consider subsidiary to pertinent items.

Provide a permanent, fully-equipped indoor restroom, with toilet and running water as part of the Type D Structure, unless approved otherwise. Provide monthly drinking water cooler with hot and cold taps and a monthly drinking water service, unless approved otherwise. Consider subsidiary to the pertinent items.

Equivalent structures may be substituted for those specified under this Item, as agreed. The agreement must be in writing.

Maintain and repair any structure or equipment contained herein. Consider subsidiary to the pertinent items.

ITEM 506 - TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

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Obtain the Engineer's approval for proposed methods used for erosion control before starting each phase of construction.

Stockpile 4-inch by 8-inch (4" x 8") rock for emergency erosion control use, as directed. Place this rock in ditches and other areas, as directed. The Contractor will be reimbursed in accordance with Pertinent Items or Article 9.5, "Force Account."

Double-bag all sandbags used for erosion control items. Consider subsidiary to pertinent Items.

ITEM 512 - PORTABLE CONCRETE TRAFFIC BARRIER

Stockpile the PCTB and connecting hardware within the limits of the project, as directed, or at a location of equal or less than the original haul distance, as directed, upon completion of this project. (The original haul distance may include the haul distance from the Supplier, as directed/determined by the Engineer.) Bundle the connecting hardware to prevent theft or loss at a storage facility designated by the Engineer. Point and patch damaged barrier as directed. Any increase in temporary barrier quantities that occur due to the Contractor's change in the sequence of the work or the traffic control plan will not be paid by the State, unless agreed to, in writing, before the change occurs.

ITEM 530 – INTERSECTIONS, DRIVEWAYS, AND TURNOUTS

Notify property owners a minimum of 48 hours in advance of beginning work on their driveways. Provide, to TxDOT, a list of each notification and contact prior to each closure.

Provide access, at all times, to adjacent property. Construct driveways one-half sections, to allow access.

Do not completely close driveways for reconstruction purposes, unless a reasonable alternate access exists to the property, as approved.

Place the flex base for the driveways using Ordinary Compaction.

ITEM 540 - METAL BEAM GUARD FENCE

Adjust the limits of the Metal Beam Guard Fence (MBGF) to meet field conditions, as directed, before erection.

Before beginning the installation of the proposed MBGF, stake the locations for approval.

Furnish new, round, domed and unpainted timber posts. Furnish steel posts at locations where the minimum embedment shown on the plans for wooden posts cannot be achieved. Field verify the steel post lengths before fabrication. Consider the steel posts subsidiary to pertinent Items.

Install all permanent MBGF and delineators, when the roadway is constructed in one-half widths, on that section, before opening the road to traffic.

ITEM 556 – PIPE UNDERDRAINS

Place pipe underdrains as shown in the plans or as directed during construction.

Filter material will meet the gradation requirements of concrete coarse aggregate (Grade 2, 3, or 4).

ITEM 560 - MAILBOX ASSEMBLIES

Supplement each new mailbox installation with Type 2 object marker placed on the mailbox support in a vertical position 6 in. below the bottom of the mailbox.

Reflective tape may be used to simulate a Type 2 marker placed on tubular supports. Use tape that meets DMS-8600. The simulated marker will consist of three (3)--2¾-inch x 2¾-inch pieces of yellow high intensity tape spaced 1 inch apart.

The Type 2 marker will consist of OM-2SR or OM-2VP object markers if delineator post supports are used. Bi-directional brackets may be required on Size 2 mailbox installations. Consider subsidiary to the pertinent Items.

ITEM 585 – RIDE QUALITY FOR PAVEMENT SURFACES

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

ITEM 644 - SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES

Fabricate all small signs not detailed on the plans in conformance with the latest edition of the “Standard Highway Sign Designs for Texas.”

http://www.dot.state.tx.us/txdot_library/publications/highway_signs.htm

ITEM 662, 666, & 672

Notify the Engineer at least 24 hours in advance of removing existing striping and placing pavement markings & markers.

Apply markings during good weather unless otherwise directed. If markings are placed at Contractor’s option, when inclement weather is impending, and the markings are damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the markings if required.

ITEM 662 - WORK ZONE PAVEMENT MARKINGS

Place temporary pavement markings each night, as directed.

If Temporary Flexible Reflective Tabs are allowed, replace any missing tabs daily.

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If tabs are used, replace tabs at Contractor's expense.

Remove work zone pavement markings within 48 hours after permanent striping has been completed.

Foil backed pavement markings will not be allowed.

ITEM 666 - REFLECTORIZED PAVEMENT MARKINGS

Apply Type I ReflectORIZED Pavement Markings no sooner than 14 days after applying the final course of HMA CP, unless otherwise directed.

Reference existing channel islands, gores, and lane striping before commencing work. Provide referencing that will include a sketch of the layout to the Engineer. Obtain approval for placement of guidemarks from the Engineer before installing any permanent pavement markings. Consider subsidiary to the pertinent Items.

Ensure that Type II pavement markings have been applied to final course HMA CP before the workers leave the project, for that particular day's work, as directed.

If TY II material is used (vs. an acrylic or epoxy) as the sealer for the TY I markings, place the TY II a minimum of 14 calendar days (to provide adequate curing) before placing the TY I markings.

Furnish double drop of Ty II & TY III glass beads for all Ty I markings.

ITEM 672 - RAISED PAVEMENT MARKERS

Place the bituminous adhesive at a temperature range of 380°F to 390°F. Place the pavement marker on the bituminous adhesive approximately 20 seconds after the adhesive is placed on the pavement. Ensure the pavement marker rests solely on the adhesive and not the pavement surface. Ensure that a minimum of 1/8 in. layer of bituminous adhesive remains between the pavement marker and the pavement surface.

ITEM 677 - ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS

Remove and dispose of, off the right of way, any existing raised pavement markings before beginning surfacing operations. Remove the existing traffic buttons and pavement markers, daily, as work progresses and as directed. Consider subsidiary to the pertinent Items.

Grinding is not an acceptable method of stripe removal.

Blast cleaning is required for the removal of existing pavement markings.

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Black paint will not be allowed, unless otherwise directed. Acceptable methods will be sand blasting (blasting method) or strip sealing (Surface Treatment Method).

ITEM 678 - PAVEMENT SURFACE PREPARATION FOR MARKINGS

Use water blasting to prepare surfaces in accordance with Item 678.

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COUNTY : HAYS

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 160 TOPSOIL
ITEM 164 SEEDING FOR EROSION CONTROL (166)(168)
ITEM 168 VEGETATIVE WATERING
ITEM 169 SOIL RETENTION BLANKETS
ITEM 216 PROOF ROLLING (210)
ITEM 247 FLEXIBLE BASE (105)(204)(210)(216)(520)
ITEM 310 PRIME COAT (300)(316)
ITEM 316 SURFACE TREATMENTS (210)(300)(302)
ITEM 354 PLANING AND TEXTURING PAVEMENT
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132)(401)(420)
(421)
ITEM 401 FLOWABLE BACKFILL (421)
ITEM 403 TEMPORARY SPECIAL SHORING (423)
ITEM 416 DRILLED SHAFT FOUNDATIONS (420)(421)(440)(448)
ITEM 420 CONCRETE STRUCTURES (400)(421)(427)(438)(440)(448)
ITEM 423 RETAINING WALLS (110)(132)(400)(420)(421)(424)(440)(445)
(458)(556)
ITEM 432 RIPRAP (247)(420)(421)(427)(431)(440)
ITEM 450 RAILING (420)(421)(424)(440)(441)(442)(445)(446)(448)
(540)
ITEM 461 STRUCTURAL PLATE STRUCTURES (400)(420)(421)(432)(440)
(442)(445)(447)
ITEM 464 REINFORCED CONCRETE PIPE (400)
ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(430)(440)(464)

ITEM 467 SAFETY END TREATMENT (400)(420)(421)(430)(432)(440)(445)
 (464)
 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 530 INTERSECTIONS, DRIVEWAYS, AND TURNOUTS (247)(316)(340)
 (360)(421)(440)
 ITEM 540 METAL BEAM GUARD FENCE (421)(441)(445)(529)(542)(544)
 ITEM 542 REMOVING METAL BEAM GUARD FENCE
 ITEM 544 GUARDRAIL END TREATMENTS
 ITEM 552 WIRE FENCE (445)(492)
 ITEM 556 PIPE UNDERDRAINS (402)(432)
 ITEM 560 MAILBOX ASSEMBLIES
 ITEM 644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (421)(440)
 (441)(442)(445)(634)(636)(643)(656)
 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)

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--2329)
 SPECIAL PROVISION "SMALL BUSINESS ENTERPRISE IN STATE FUNDED
 PROJECTS" (000--2301)
 SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--2332)
 SPECIAL PROVISION "DEPARTMENT DIVISION MAILING AND PHYSICAL ADDRESS"
 (000---011)
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--2365)
 SPECIAL PROVISION TO ITEM 1 (001---015)
 SPECIAL PROVISION TO ITEM 2 (002---017)
 SPECIAL PROVISION TO ITEM 3 (003---033)
 SPECIAL PROVISION TO ITEM 4 (004---017)
 SPECIAL PROVISION TO ITEM 5 (005---004)
 SPECIAL PROVISION TO ITEM 6 (006---030)
 SPECIAL PROVISION TO ITEM 7 (007---918)
 SPECIAL PROVISIONS TO ITEM 9 (009---012)(009---015)
 SPECIAL PROVISION TO ITEM 100 (100---002)
 SPECIAL PROVISION TO ITEM 161 (161---006)
 SPECIAL PROVISION TO ITEM 164 (164---002)

SPECIAL PROVISION TO ITEM 166 (166---001)
 SPECIAL PROVISION TO ITEM 169 (169---002)
 SPECIAL PROVISION TO ITEM 247 (247---033)
 SPECIAL PROVISIONS TO ITEM 300 (300---008) (300---039)
 SPECIAL PROVISION TO ITEM 302 (302---010)
 SPECIAL PROVISION TO ITEM 316 (316---016)
 SPECIAL PROVISION TO ITEM 318 (318---010)
 SPECIAL PROVISION TO ITEM 340 (340---003)
 SPECIAL PROVISION TO ITEM 360 (360---003)
 SPECIAL PROVISION TO ITEM 420 (420---002)
 SPECIAL PROVISION TO ITEM 421 (421---035)
 SPECIAL PROVISION TO ITEM 424 (424---002)
 SPECIAL PROVISION TO ITEM 431 (431---001)
 SPECIAL PROVISION TO ITEM 440 (440---006)
 SPECIAL PROVISION TO ITEM 441 (441---007)
 SPECIAL PROVISION TO ITEM 442 (442---016)
 SPECIAL PROVISION TO ITEM 447 (447---002)
 SPECIAL PROVISION TO ITEM 448 (448---002)
 SPECIAL PROVISION TO ITEM 450 (450---001)
 SPECIAL PROVISION TO ITEM 464 (464---003)
 SPECIAL PROVISION TO ITEM 492 (492---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---002)
 SPECIAL PROVISION TO ITEM 540 (540---023)
 SPECIAL PROVISION TO ITEM 560 (560---001)
 SPECIAL PROVISION TO ITEM 636 (636---014)
 SPECIAL PROVISION TO ITEM 643 (643---001)
 SPECIAL PROVISION TO ITEM 672 (672---034)

SPECIAL SPECIFICATIONS:

ITEM 1018 TREE PROTECTION
 ITEM 3224 DENSE-GRADED HOT-MIX ASPHALT (QC/QA) (300)(301)(320)(520)
 (585)
 ITEM 5049 BIODEGRADEABLE EROSION CONTROL LOGS (161)(506)
 ITEM 6834 PORTABLE CHANGEABLE MESSAGE SIGN

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.

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