LUBBOCK COUNTY
Woodrow Road Phase 2 – SLIDE ROAD TO INDIANA AVE
ITB 250801

Addendum No. 2

This addendum forms part of the contract documents referenced above and modifies the original Contract Documents. Acknowledge receipt of this addendum by signing and attaching it to the Contract Documents (inside). Note receipt of the Addendum in the Bid Proposal and on the outer envelope of your bid.

Pre-Bid Meeting – 10/20/2025

1. Sign-In Sheet from Meeting
2. Meeting agenda
3. Questions and Clarification
    - Pavement Testing requirements
        i. For asphalt pavement testing requirements
            1. Contractor is responsible for quality control (QC) testing, the County is responsible for quality assurance (QA) testing for asphalt pavement.

        ii. For concrete pavement testing requirements
            1. Contractor is responsible for all concrete job control testing.
    - 833 calendar days specified in the contract is only for the base bid activities
    - CR 2330 Traffic Control Plan
        i. Plan is to shut down CR 2330 and only allow local access during construction
    - Flex Base Item Quantity is in currently Cubic Yards (CY)
        i. See update below.
    - Bond forms shown in the contract are examples only.

ITB/Project Manual Clarifications/Changes

4. Pricing Sheet
    - Revised Item 20 – 0247 6060 – FL BS (CMP IN PLC)(TY E GR 4)(FNL POS)
        i. Item to no longer by quantified in Cubic Yards (CY), instead it will be in Square Yards (SY)
        ii. Item revised to 0247 6204 – FL BS (CMP IN PLC)(TY E GR 4)(8”)
    - Revised Item 8 – 0110 6001 – EXCAVATION ROADWAY
        i. Revised item quantity to include the parallel channel excavation
5. Measurement and Payment Section Revision
    - TxDOT Item 3076 – Dense Graded Hot-Mix Asphalt
        i. Additional clarification provided.
            1. Incentive bonus is not applicable for this project. Max pay factor is 1.0 for placement and production. Penalties are applicable as described within TxDOT specifications.
6. Contract Administration Guidelines
    - Section 1.06 Quality Management – A. Contractor’s Responsibilities
        i. Additional clarification is provided regarding asphalt and concrete pavement testing.

Plans Clarifications/Changes

1. GENERAL NOTES – SHEETS 16, 16A – 16N
    - Revised the following items
        i. Item 8 – Prosecution and Progress
        ii. Item 360 – Concrete Pavement
        iii. Items 3076 & 3080 – Hot-Mix Asphalt Pavement
        iv. Item 3076 – Dense-Graded Hot-Mix Asphalt
2. E&Q – SHEET 17 and 17B
    - Revised quantity for Item 0110 6001 Excavation (Roadway)
    - Revised Item Number and Quantity for Flex Base to be a Square Yard measurement.
        i. Modified 0247 6060 - FL BS (CMP IN PLC)(TY E GR 4)(FNAL POS) to 0247 6204 FL BS (CMP IN PLC)(TY E GR 4)(8")
3. EARTHWORK CALCULATIONS – SHEET 99
    - Revised the summary table excavation total
4. ROADWAY SUMMARY– SHEET 101
    - Revised quantity for Item 0110 6001 Excavation (Roadway)
    - Revised Item Number and Quantity for Flex Base to be a Square Yard measurement.
        i. Modified 0247 6060 - FL BS (CMP IN PLC)(TY E GR 4)(FNAL POS) to 0247 6204 FL BS (CMP IN PLC)(TY E GR 4)(8")
5. 2016 CONTOURS AND EXCAVATION QUANTITIES QUESTION CLARIFICATION
    - The excavation quantities as shown in the roadway quantities are based on corridor existing ground survey performed by Hugo Reed and Associates.
    - The Channel excavation quantities for Channel A as it turns south down the drainage easement are calculated using the 2016 lidar contours.
        i. Comparing the contours and development from 2016 to 2021 there was no development at this location and therefore the quantities provided in the plans are accurate.

CONTRACTOR: _____

(*typed or printed)*

By: _____ Date:_____

(signature)

By: _____ Title:_____

(*typed or printed*) (*typed or printed*)

ITB 250801
WOODROW ROAD (PHASE II)
MONDAY, OCTOBER 20, 2025, 10:00 A.M.

PRE-BID SIGN IN SHEET

Name	Company	Signature	E-Mail	Phone
Will Barnett	Atlas Technical	WBarnett	will.barnett@oneatlas.com	806 559 7101
BARRY HEARD	ITS	B. Heard	bheard@itsinc-tx.com	806-239-85[illegible]
Scott Taylor	Lubbock Co.	Scott Taylor	sotaylor@lubbockcounty.gov	806-775-1670
David Smith	Halff	D Sm	dsmith@halff.com	817-764-7486
JOSH HALFMANN	HUGO REED		jhalfmann@hugoreed.com	
Nathan Rigler	Hugo Reed	Nathan Rigler	nrigler@hugoreed.com	806-763-5612
Katherine Barrington	Kimley-Horn	Katherine Barrington	katherine.barrington@kimley-horn.com	806-470-2592
Brenden Bartels	Kimley-Horn	Brenden Bartels	brenden.bartels@kimley-horn.com	806-344-0346
Travis Windham	Kimley-Horn		travis.windham@kimley-horn.com	806-395-4549
MARSHAL JARNAGIN	West Texas Paving	Marshal Jarnagin	marshal@wtxpaving.com	(806) 833-2882

ITB 250801
WOODROW ROAD (PHASE II)
MONDAY, OCTOBER 20, 2025, 10:00 A.M.

PRE-BID SIGN IN SHEET

Name	Company	Signature	E-Mail	Phone
DARRELL JARNAGIN	WEST TEXAS PAVING INC		WESTTEXASPAVING@SPTC.NET	806-441-0843
Gavin Felux	West Texas Paving Inc			512-988-9821
Zach Scribner	West Texas Paving Inc		zach@wtxpaving.com	(806) 496-1025
Rodshodi Moore	Lubbock County		rmoore@lubbockcountygov	(806) 549-8077
[illegible]	Lubbock County		[illegible]@lubbockcounty.gov	806-549-8042
Matthew Olivarez	Atlas		Matthew.olivarez@greatlas.com	806-559-3256
Marisol Fuller	Lubbock County		mfuller@lubbockcounty.gov	
CLINT WEHRMAN	Lubbock County		cwehrman@lubbockcounty.gov	806-775-1015

Pre-Bid Meeting Agenda

Project:	Woodrow Road (FM 1730 to SL 493)
Purpose:	Pre-Bid Meeting
Date:	October 20, 2025 (10:00 A.M.)
Location:	Lubbock County Office

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1. Project Overview
    a. Woodrow Road Phase 2 – Slide Road to Indiana Avenue
        i. 1.99 Miles in Length
        ii. Widening two lanes to five lanes, curb and gutter, drainage improvements, signing, and pavement markings
2. Invitation to Bid (ITB)
    a. TxDOT prequalification is required
    b. Addendum No 1.
        i. Revised pricing sheet, updated E&Q and Signing and Pavement Marking Summary Sheet
    c. Miscellaneous Project Allowance (MPA)
        i. Addendum No. 1 updated this to be a standard $100,000 in the pricing sheet.
        ii. This will cover unanticipated work and/or other non-subsidiary items requested by the owner and at the direction of the Engineer. See Measurement and Payment section of the Project Manual for full description.
    d. Testing
        i. Testing is the responsibility of the contractor.
    e. Pavement and Ride Quality
        i. No incentive bonus for this project.
        ii. Straight Edge testing is required.
    f. Construction Calendar Days
        i. Work is to be completed in 833 calendar days.
    g. Deadlines
        i. Deadline to submit questions, 2:00 PM on 11/5/2025
        ii. Deadline for Submissions, 2:00 PM on 11/13/2025
3. Traffic Control & Phasing
    a. Traffic Control is a lump sum. The plans are an established minimum and the contractor must provide traffic control for all phases necessary for construction.

i. The item includes temporary markings, electronic message boards, temporary signs, and barricades, as shown in the plans.

b. Phase 1 – Slide Road
   i. Starts at Slide Road constructing downstream drainage improvements (SE corner) first. Then working on the remainder of the intersection focusing on one quadrant at a time.

c. Phase 2 – Slide Road to Indiana Ave
   i. South half first, maintaining two lanes of traffic using temporary pavement
   ii. Finish with the north half

d. Final Phase – Place Final top 2" of HMA

4. Adjacent Projects
   a. Woodrow Road Phase 1 – actively under construction, managed by TxDOT and Constructed by Webber
      i. There might be some coordination needed between these two projects depending on the timing of construction at Indiana Ave.
   b. Utica Ave
      i. Driveway connection to Utica Ave is going to be constructed by others. There maybe some coordination needed with that contractor when this work occurs.
   c. Woodrow Road ADA Project – Managed and let by TxDOT.
      i. ADA Plans are still in development, planning to add in 10' shared use path along the northern curb line from Slide Road to Indiana Ave.
      ii. 10' buffer is shown in plans for future Shared Use Path to be placed.
      iii. Project will be let once Phase 2 construction is far enough along where curb and gutter is placed.
5. LCISD
   a. Liberty High School is located along this corridor. There are existing school zone signs that will need to be salvaged and relocated. School zone signs will need to be maintained via temporary signs turning construction.
   b. LCISD must be notified when traffic shifts are happening
   c. During Football season, all work must be stopped by 5 PM on home football games.
   d. LCISD will have events throughout the year, work is to be suspended during these events for the safety of the traveling public as directed by the Engineer.
6. Design Features
   a. Affordable Storage (Southeast of Quaker) Turf
      i. Plans specify that the turf is to be removed and returned to the property owner. The property owner will restore the turf after the new curb and driveways are completed.

ii. Some of the existing curb and gutter is to remain, please refer to plans for the locations where curb is to be reconstructed vs. remain in place.

b. Discount Storage (Northwest of Indiana Ave)
   i. Existing parking lot is to be sawcut and demoed up to the ROW line. Property owner will be responsible for restriping parking lot and setting stop bars.

c. Driveway Box Culverts
   i. Most driveway box culverts are specified to by cast-in-place and the top of the box will be the driving surface. Please refer to the plans and look for driveway culverts that are specified as cast-in-place (CIP).

7. Alternate Bids
   a. Alternate Bid #1 – Drainage Improvements West of Jack and Jill Donut Shop
      i. Proposing to place a catch basin and bore an 18" HDPE pipe under Woodrow Road and outfall into the drainage channel to alleviate some ponding issues at this location.
   b. Alternate Bid #2 – CR 2330
      i. 0.45 mile Widening of CR 2330 from 2 lanes to 3 lanes, curb and gutter, signage, striping and pavement marking, and drainage improvements.
      ii. This project will be constructed during the summertime when school is out of session, contractor can't begin construction on this portion without approval from the County.
8. Utilities in the Corridor
   a. SPEC
      i. Overhead Electric with a couple of underground crossings
   b. South Plains Telephone Coop (SPTC)
      i. Parallel underground fiber on both the north and south sides of the corridor. They have some abandoned lines in the corridor as well.
   c. AT&T
      i. Parallel underground fiber on the south side of the corridor
   d. Atmos Gas
      i. Parallel high pressure gas line on the north side from Slide Road to Quaker Ave
      ii. Underground crossing at Slide Road
   e. WTG
      i. Parallel gas line on the South side from Quaker Ave to Little Red Nursey
      ii. Underground crossing at Slide Road
   f. Vexus/MetroNet
      i. Aerial fiber line and some underground crossings throughout the project
   g. Optimum

i. Aerial fiber line and some underground crossings throughout the project
ii. Underground crossing at Slide Road

PRICING SHEET - Addendum No. 2

PROJECT	***WOODROW PHASE II - SLIDE ROAD TO INDIANA AVENUE***
PROPOSER NAME	
DATE	

ITEM NO.	PROJECT MANUAL	TXDOT SPEC.	DESCRIPTION	QTY (+/-)	U/M	UNIT COST	EXTENDED COST
Woodrow Phase 2							
1	1020	0100 6002	PREPARING ROW	123	STA	$	$
2	1020	0100 6006	PREP ROW (TREE)(LESS THAN 24" DIA)	4	EA	$	$
3	1020	0100 6007	PREP ROW (TREE)(GREATER THAN 24" DIA)	6	EA	$	$
4		0104 6001	REMOVING CONC (PAV)	998	SY	$	$
5		0104 6009	REMOVING CONC (RIPRAP)	13	SY	$	$
6		0104 6017	REMOVING CONC (DRIVEWAYS)	4322	SY	$	$
7		0104 6022	REMOVING CONC (CURB AND GUTTER)	218	LF	$	$
8		0110 6001	EXCAVATION (ROADWAY)	81054	CY	$	$
9		0110 6002	EXCAVATION (CHANNEL)	5697	CY	$	$
10		0132 6006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	375	CY	$	$
11	1356	0160 6003	FURNISHING AND PLACING TOPSOIL (4")	50245	SY	$	$
12	1356	0164 6021	CELL FBR MLCH SEED(PERM)(RURAL)(SANDY)	50245	SY	$	$
13	1356	0164 6029	CELL FBR MLCH SEED(TEMP)(WARM)	25122.5	SY	$	$
14	1356	0164 6031	CELL FBR MLCH SEED(TEMP)(COOL)	25122.5	SY	$	$
15	1356	0164 6034	DRILL SEEDING (PERM) (RURAL) (SANDY)	3.28	AC	$	$
16	1356	0166 6001	FERTILIZER	10	AC	$	$
17	1356	0168 6001	VEGETATIVE WATERING	846	MG	$	$
18	1356	0169 6007	SOIL RETENTION BLANKETS (CL 2) (TY G)	11410	SY	$	$
19		0216 6001	PROOF ROLLING	85	HR	$	$
20		0247 6204	FL BS (CMP IN PLC)(TY E GR 4)(8")	82791	SY	$	$
21		0275 6001	CEMENT	74	TON	$	$
22		0275 6002	CEMENT TREAT (EXIST MATL) (6")	8761	SY	$	$
23		0310 6009	PRIME COAT (MC-30)	14649	GAL	$	$
24		0315 6004	FOG SEAL (CSS-1H)	10987	GAL	$	$
25		0351 6013	FLEXIBLE PAVEMENT STRUCTURE REPAIR(4")	1300	SY	$	$
26		0354 6005	PLAN & TEXT ASPH CONC PAV(2" TO 4")	35244	SY	$	$
27		0360 6002	CONC PVMT (CONT REINF - CRCP) (8")	6726	SY	$	$
28		0360 6080	CONC PVMT (CRCP) (TRANSITION SLAB)	148	SY	$	$
29		0416 6002	DRILL SHAFT (24 IN)	36	LF	$	$

30		0432 6001	RIPRAP (CONC)(4 IN)	976	CY	$	$
31		0432 6002	RIPRAP (CONC)(5 IN)	47	CY	$	$
32		0432 6022	RIPRAP (STONE COMMON)(DRY)(6 IN)	32	CY	$	$
33		0432 6055	RIPRAP (STONE TY F) (DRY) (18")	20	CY	$	$
34		0460 6002	CMP (GAL STL 18 IN)	200	LF	$	$
35		0460 6003	CMP (GAL STL 24 IN)	70	LF	$	$
36		0462 6099	CONC BOX CULV (6 FT X 2 FT)	1332	LF	$	$
37		0465 6012	JCTBOX(COMPL)(PJB)(8FTX8FT)	1	EA	$	$
38		0465 6128	INLET (COMPL)(PSL)(FG)(4FTX4FT-4FTX4FT)	1	EA	$	$
39		0467 6207	SET (TY I)(S= 6 FT)(HW= 3 FT)(6:1) (C)	2	EA	$	$
40		0467 6208	SET (TY I)(S= 6 FT)(HW= 3 FT)(6:1) (P)	28	EA	$	$
41		0467 6346	SET (TY II) (18 IN) (CMP) (4: 1) (P)	4	EA	$	$
42		0467 6377	SET (TY II) (24 IN) (CMP) (4: 1) (C)	4	EA	$	$
43		0480 6001	CLEAN EXIST CULVERTS	16	EA	$	$
44		0496 6016	REMOV STR (PIPE)	10	EA	$	$
45	1020	0500 6001	MOBILIZATION	1	LS	$	$
46	1356	0506 6002	ROCK FILTER DAMS (INSTALL) (TY 2)	80	LF	$	$
47	1356	0506 6011	ROCK FILTER DAMS (REMOVE)	80	LF	$	$
48	1356	0506 6024	CONSTRUCTION EXITS (REMOVE)	500	SY	$	$
49	1356	0506 6042	BIODEG EROSN CONT LOGS (INSTL) (18")	1070	LF	$	$
50	1356	0506 6043	BIODEG EROSN CONT LOGS (REMOVE)	1070	LF	$	$
51		0508 6001	CONSTRUCTING DETOURS	36990	SY	$	$
52		0529 6008	CONC CURB & GUTTER (TY II)	17915	LF	$	$
53		0529 6012	CONC CURB (SLOTTED)	618	LF	$	$
54		0529 6021	CONC CURB & GUTTER (SLOTTED)	270	LF	$	$
55		0529 6030	CONC CURB & GUTTER (VALLEY GUTTER)	80	LF	$	$
56		0530 6001	INTERSECTIONS (CONC)	94	SY	$	$
57		0530 6004	DRIVEWAYS (CONC)	8587	SY	$	$
58		0530 6007	TURNOUTS (CONC)	770	SY	$	$
59		0531 6001	CONC SIDEWALKS (4")	2600	SY	$	$
60		0531 6013	CURB RAMPS (TY 10)	2	EA	$	$
61		0536 6002	CONC MEDIAN	522	SY	$	$
62		0560 6001	MAILBOX INSTALL-S (TWG-POST) TY 1	60	EA	$	$
63		0644 6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	20	EA	$	$
64		0644 6002	IN SM RD SN SUP&AM TY10BWG(1)SA(P-BM)	4	EA	$	$
65		0644 6004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	4	EA	$	$
66		0644 6076	REMOVE SM RD SN SUP&AM	14	EA	$	$

67		0666 6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	5662	LF	$	$
68		0666 6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	935	LF	$	$
69		0666 6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	443	LF	$	$
70		0666 6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	5054	LF	$	$
71		0666 6318	RE PM W/RET REQ TY I (Y)6"(BRK)(100MIL)	4281	LF	$	$
72		0666 6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	22421	LF	$	$
73		0668 6018	PREFAB PAV MRK TY B (W)(24")(SLD)	592	LF	$	$
74		0668 6019	PREFAB PAV MRK TY B (W)(ARROW)	20	EA	$	$
75		0668 6020	PREFAB PAV MRK TY B (W)(DBL ARROW)	2	EA	$	$
76		0672 6007	REFL PAV MRKR TY I-C	280	EA	$	$
77		0672 6009	REFL PAV MRKR TY II-A-A	1714	EA	$	$
78		0678 6001	PAV SURF PREP FOR MRK (4")	1580	LF	$	$
79		0678 6004	PAV SURF PREP FOR MRK (8")	901	LF	$	$
80		0678 6006	PAV SURF PREP FOR MRK (12")	112	LF	$	$
81		0678 6008	PAV SURF PREP FOR MRK (24")	334	LF	$	$
82		0678 6009	PAV SURF PREP FOR MRK (ARROW)	6	EA	$	$
83		0685 6004	INSTL RDSD FLSH BCN ASSM (SOLAR PWRD)	6	EA	$	$
84	1356	0730 6107	FULL -WIDTH MOWING	2	CYC	$	$
85		3076 6009	D-GR HMA TY-B PG70-28 (4")	16850	TON	$	$
86		3076 6030	D-GR HMA TY C PG70-28 (2")	8427	TON	$	$
87		3076 6045	D-GR HMA TY-D PG70-28	961	TON	$	$
88		3080 6029	TACK COAT	14649	GAL	$	$
89	1020-1		TRAFFIC CONTROL	1	LS	$	$
90	1020-2		MISCELLANEOUS PROJECT ALLOWANCE (MPA)	1	LS	$ 100,000.00	$ 100,000.00
						Base Bid Total	
Alternative 1 - Drainage Storm Sewer							
AB1-1		0104 6010	REMOVING CONC (RIPRAP)	0.8	CY	$	$
AB1-2	1020	0500 6001	MOBILIZATION	1	LS	$	$
AB1-3		4026 6001	THERMOPLASTIC PIPE (18)(HDPE)	150	LF	$	$
AB1-4	1020-3		SLICK BORE (HDPE)(COMPLETE FURNISH AND INSTAI	150	LF	$	$
AB1-5	1020-4		24" CATCH BASIN W/DOMED CAST IRON GRATE ASSEMBLY (COMPLETE)	1	EA	$	$
AB1-6		0432 6001	4" CONC RIPRAP	1.5	CY	$	$
						Alternative 1 Total	**$ -**

Alternative 2 - CR 2330							
AB2-1	1020	0100 6002	PREPARING ROW	10	STA	$	$

AB2-2		0104 6009	REMOVING CONC (RIPRAP)	8	SY	$	$
AB2-3		0104 6017	REMOVING CONC (DRIVEWAYS)	2247	SY	$	$
AB2-4		0110 6002	EXCAVATION (CHANNEL)	1810	CY	$	$
AB2-5		0110 6001	EXCAVATION (ROADWAY)	8045	CY	$	$
AB2-6		0132 6006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	127	CY	$	$
AB2-7	1356	0160 6003	FURNISHING AND PLACING TOPSOIL (4")	7204	SY	$	$
AB2-8	1356	0164 6021	CELL FBR MLCH SEED(PERM)(RURAL)(SANDY)	7204	SY	$	$
AB2-9	1356	0164 6029	CELL FBR MLCH SEED(TEMP)(WARM)	3602	SY	$	$
AB2-10	1356	0164 6031	CELL FBR MLCH SEED(TEMP)(COOL)	3602	SY	$	$
AB2-11	1356	0164 6034	DRILL SEEDING (PERM) (RURAL) (SANDY)	2.25	AC	$	$
AB2-12	1356	0166 6001	FERTILIZER	1.49	AC	$	$
AB2-13	1356	0168 6001	VEGETATIVE WATERING	121	MG	$	$
AB2-14		0216 6001	PROOF ROLLING	12	HR	$	$
AB2-15		0247 6060	FL BS (CMP IN PLC)(TY E GR 4)(8")	11680	SY	$	$
AB2-16		0275 6001	CEMENT	19	TON	$	$
AB2-17		0275 6002	CEMENT TREAT (EXIST MATL) (6")	2110	SY	$	$
AB2-18		0310 6009	PRIME COAT (MC-30)	2044	GAL	$	$
AB2-19		0315 6004	FOG SEAL (CSS-1H)	1533	GAL	$	$
AB2-20		0351 6013	FLEXIBLE PAVEMENT STRUCTURE REPAIR(4")	650	SY	$	$
AB2-21		0354 6005	PLAN & TEXT ASPH CONC PAV(2" TO 4")	6229	SY	$	$
AB2-22		0360 6002	CONC PVMT (CONT REINF - CRCP) (8")	1690	SY	$	$
AB2-23		0360 6080	CONC PVMT (CRCP) (TRANSITION SLAB)	31	SY	$	$
AB2-24		0432 6001	RIPRAP (CONC)(4 IN)	22	CY	$	$
AB2-25		0432 6055	RIPRAP (STONE TY F) (DRY) (18")	63	CY	$	$
AB2-26		0464 6017	RC PIPE (CL IV) (18 IN)	90	LF	$	$
AB2-27		0479 6001	ADJUSTING MANHOLES	8	EA	$	$
AB2-28		0496 6016	REMOV STR (PIPE)	14	EA	$	$
AB2-29	1020	0500-6001	MOBILIZATION	1	LS	$	$
AB2-30	1356	0506 6042	BIODEG EROSN CONT LOGS (INSTL) (18")	411	LF	$	$
AB2-31	1356	0506 6043	BIODEG EROSN CONT LOGS (REMOVE)	411	LF	$	$
AB2-32		0529 6008	CONC CURB & GUTTER (TY II)	3396	LF	$	$
AB2-33		0529 6021	CONC CURB (SLOTTED)	114	LF	$	$
AB2-34		0529 6030	CONC CURB & GUTTER (VALLEY GUTTER)	109	LF	$	$
AB2-35		0530 6004	DRIVEWAYS (CONC)	2106	SY	$	$
AB2-36		0531 6001	CONC SIDEWALKS (4")	1855	SY	$	$
AB2-37		0531 6005	CURB RAMPS (TY 2)	2	EA	$	$
AB2-38		0536 6002	CONC MEDIAN	59	SY	$	$

AB2-39		0560 6001	MAILBOX INSTALL-S (TWG-POST) TY 1	7	EA	$	$
AB2-40		0644 6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	4	EA	$	$
AB2-41		0666 6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	532	LF	$	$
AB2-42		0666 6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	118	LF	$	$
AB2-43		0666 6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	200	LF	$	$
AB2-44		0666 6318	RE PM W/RET REQ TY I (Y)6"(BRK)(100MIL)	780	LF	$	$
AB2-45		0666 6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	3116	LF	$	$
AB2-46		0668 6018	PREFAB PAV MRK TY B (W)(24")(SLD)	38	LF	$	$
AB2-47		0668 6019	PREFAB PAV MRK TY B (W)(ARROW)	31	EA	$	$
AB2-48		0672 6009	REFL PAV MRKR TY II-A-A	313	EA	$	$
AB2-49		0678 6004	PAV SURF PREP FOR MRK (8")	529	LF	$	$
AB2-50		3076 6009	D-GR HMA TY-B PG70-28 (4")	2351	TON	$	$
AB2-51		3076 6045	D-GR HMA TY-D SAC-A PG70-28	134	TON	$	$
AB2-52		3079 6029	TACK COAT	2043	GAL	$	$
AB2-53	1020-1		TRAFFIC CONTROL	1	LS	$	$
						Alternative 2 Total	$ -

Woodrow Phase 2 Bid Options	
Option 1 - Base Bid Only (= Base Bid Total)	$ -
Option 2 - Base Bid and Alternative 1 (= Option 1 + Alternative 1 Total)	$ -
Option 3 - Base Bid and Alternative 2 (= Option 1 + Alternative 2 Total)	$ -
Option 4 - Base Bid, Alternative 1, and Alternative 2 (= Option 1 + Alternative 1 Total + Alternative 2 Total)	$ -

SECTION 01020

MEASUREMENT AND PAYMENT

SCOPE

Measurement and payment for each bid item shall be defined within the applicable TxDOT specification unless otherwise specified within this project manual or in the plans. The unit price bid on each item as stated in the bid proposal shall include furnishing all labor, superintendence, machinery, equipment, and materials except as otherwise specified, necessary or incidental to complete the various items of work in accordance with the plans and specifications. Cost of work or materials shown on the plans or called for in the specifications for which no separate bid item is indicated shall be considered subsidiary to the various bid items. Payment will not be made for any item that is not complete, including all associated incidental work. Only those items indicated on bid documents and plan sheets will be included for construction and payment.

ROADWAY PAY ITEMS

TxDOT Item 100 – Preparing ROW
The provisions of TxDOT Item 100 - "Preparing Right of Way" shall apply except as modified or clarified below:

A. All removed material shall become the property of the contractor. The contractor shall be responsible for disposing of said material, off site, in a safe and lawful manner.
B. Removal of miscellaneous gravel pavement, concrete, wood, metal, other structures and/or trash not specifically identified for removal on the demolition plans or scheduled for payment in the proposal shall be considered incidental to this bid item and shall not be a basis for additional payment.
C. All culverts within the project limits shall be cleaned prior to final project acceptance. The cost for this work shall be considered incidental to this bid item.
D. Measurement for this bid item shall be per station.
E. Payment for this bid item shall be paid for at the unit price bid for "Preparing ROW".

TxDOT Item 500 – Mobilization
The provisions of TxDOT Item 500 – "Mobilization" shall apply except as modified or clarified below:

A. The lump sum price bid shall be full compensation for all costs associated with mobilization and demobilization, complete in place and paid 50% for mobilization and 50% for demobilization. This item shall be the total compensation for furnishing material, total, labor, equipment, and incidentals necessary for complete and operable systems.
B. Locating and marking all utilities, both franchise and public, in the field prior to the start of construction shall be considered incidental to this bid item.
C. Measurement for this bid item shall be lump sum.
D. Payment for this bid item shall be paid for at the unit price bid for "Mobilization".

TxDOT Item 3076 – Dense Graded Hot-Mix Asphalt
The provisions of TxDOT Special Specification 3076 – "Dense Graded Hot Mix Asphalt" shall apply except as modified or clarified below.

A. Incentive bonus is not applicable for this project. Max pay factor shall be 1.0 for placement and production. Penalties are applicable as described within TxDOT specifications.
B. Measurement for this item shall be per ton.
C. Payment for this bid item shall be paid for at the unit price bid in the contract documents.

OTHER PAY ITEMS

1020-1 – Traffic Control

Payment for “Traffic Control” shall be on a lump sum basis. This pay item shall consist of designing, furnishing, installing, maintaining, and removing the required traffic control devices during each phase of construction in accordance with the approved traffic control plan and TMUTCD. Inclusive with this pay item is the requirement for adequate notification and instruction to be given to adjacent businesses and property owners and to the traveling public regarding interruptions or changes to established traffic flow patterns to, from, and along the work site.

The CONTRACTOR shall submit a Traffic Control Plan to the County for approval prior to the beginning of work. Any traffic control items necessary for safe facilitation of vehicular and pedestrian traffic shall be furnished by the contractor. This item shall include detours, channelizing devices, traffic barriers, panels, arrow boards, removing striping, temporary lane lines and/or markers, construction signing and barricades, construction pavement markers, message boards, temporary school zone flashers, and all other work required to provide for passage of vehicular traffic for all phases of construction.

Two-way traffic on the roadways must be maintained at all times during construction. Access must be maintained at all times to all houses and businesses. If necessary, CONTRACTOR must furnish flagmen to direct traffic through the work zone at no additional compensation. Store all materials and equipment not in use in a manner and at locations that will not interfere with the safe passage of traffic. The amount bid for this item shall be paid over the duration of the project with the amount paid on each monthly progress estimate determined by percent-complete on all other bid items.

1020-2 – MISCELLANEOUS PROJECT ALLOWANCE

This item establishes a contract contingency allowance for unanticipated work and/or other non-subsidiary items requested by the owner and at the direction of the Engineer.

This item will not be paid to the contractor unless a field order is issued. Payment for “Miscellaneous Project Allowance” work shall be made by lump sum price agreed on in writing by the Engineer and the Contractor and approved by the Owner before said work is commenced, subject to all other conditions of the contract. The Contractor will only charge the fraction of the allowance that yields the agreed upon price which will be considered payment in full for all labor, materials, tools, equipment and incidentals, and all superintendents’ and timekeepers’ services, all insurance, bond, and all overhead expense incurred in the performance of the extra work. Any remaining money left in this allowance budget at the conclusion of the project will be kept by the Owner.

1020-3 – SLICK BORE (HDPE)(COMPLETE FURNISH AND INSTALL)

Measurement and payment shall be made at the contract unit price per linear foot along the installed pipe centerline for SLICK BORE (HDPE)(COMPLETE FURNISH AND INSTALL)), which price shall include full compensation for boring operations, HDPE PIPE, fittings, grouting, and all necessary labor, equipment, and materials.

This work shall consist of furnishing all labor, equipment, materials, and incidentals necessary to install a pipe by boring and jacking, or other approved trenchless method, at the location shown on the plans or as directed by the Engineer. The work includes excavation, boring, installation of HDPE pipe, backfilling, grouting, dewatering, and site restoration, in accordance with the contract documents and applicable specifications.

1020-4 – 24” CATCH BASIN WITH DOMED CAST IRON GRATE ASSEMBLY (COMPLETE)

Payment shall be by each (EA), per 24" catch basin with cast iron domed grate complete and in place.

This work shall consist of furnishing all labor, equipment, and materials necessary to construct/install a 24-inch catch basin with cast iron domed grate at the location shown on the plans or as directed by

the Engineer. Work includes excavation, base preparation, placement of precast or prefabricated structure, installation of frame and 24-inch domed grate, riser pipe as necessary, connection to storm sewer or outlet pipe, backfilling, compaction, and surface restoration. All materials and workmanship shall conform to the contract documents and applicable standards.

END OF SECTION 01020

III CONTRACT ADMINISTRATION GUIDELINES

1.00 GENERAL

1.01 CONTRACT ADMINISTRATION / COMMUNICATIONS

A. Communications

1. The Project Construction manager (PCM) is to be the first point of contact for all parties on matters concerning this project and will facilitate the administration of the Contract. The PCM will be named at the pre-construction conference.

2. The PCM will normally communicate only with the Contractor. Any required communication with Subcontractors or Suppliers will only be with the direct involvement of the Contractor.

B. Project Meetings

1. Pre-construction Conference:

a. Attend a pre-construction conference at the location determined by the Owner (Lubbock County). The date of the meeting will be determined by the Owner but will be no later than 15 days after the Notice to Proceed is issued.

b. The OPT (Owner's Project Team), Contractor's project manager and superintendent must attend the conference. Representatives of utility companies, and representatives from major Subcontractors and Suppliers may also attend the conference.

c. Provide and be prepared to discuss:

1) Name and contact information for Owner's PCM

2) Preferred channels of communication between the OPT, PCM and the Contractor for contract administration, applications for payment, submittals, documentation of test results, products information, and project closeout.

3) Contractor's organization as it relates to this Project;

4) List of Subcontractors and Suppliers;

5) Contractor's safety program, including the designated safety representative, requirement for personal protective equipment and safety protocols;

6) Preliminary construction schedule per Paragraph 1.06;

7) Status of building permits and crossing permits;

8) Requirements for surveying or establishing controls;

9) Status of Storm Water Pollution Prevention Plans;

10) Preliminary submittal schedule per Paragraph 1.02;

11) Schedule for major materials and equipment deliveries and priorities.

12) Schedule of values and anticipated schedule of payments Paragraph 1.05; and

13) Letter indicating the agents of authority for the Contractor and the limit of that authority with respect to the execution of legal documents, contract modifications and payment requests.

2. Progress Meetings:

a. Meet on a bi-weekly basis with the PCM to discuss work planned for the following week.

1.02 DOCUMENTATION

A. General Requirements for Documentation:

1. Submit documentation as required by the Contract Documents and as reasonably requested by the PCM. Use the preferred channels of communication as discussed in the pre-construction conference for contract administration, applications for payment, submittals, documentation of test results, products information, and project closeout.

2. Contractor is responsible for reviewing documents prior to submission for accuracy and completeness. Make certifications as required by the Contract Documents andas indicated on PCM provided forms.

3. Submit all documents in Portable Document Format (PDF). In additions to PDFfiles, submit, Applications for Payment and Schedules in native format files.

1.03 PRODUCT INFORMATION

A. Provide the following Product Information submittals:

Specification Section	Description	Submittal Required		
		Shop Drawings	Product Data	O&M Manual
TxDOT 341	HMAC Job Mix Formula		X	
TxDOT 360	Concrete Mix Design		X	
TxDOT 341	HMAC Mix Design		X	

B. Shop Drawings

1. Shop Drawings are required for those products that cannot adequately be described in the Contract Documents to allow fabrication, erection or installation of the product without additional detailed information from the Supplier.

2. Submit Shop Drawings as required by the Contract Documents and as reasonably requested by the PCM to:

a. Provide a record of the products incorporated into the Project;

b. Provide detailed information for the proposed products regarding their fabrication, installation, commissioning, and testing;

c. Compare the proposed performance and features of the product with the specified features to determine that the products will, in general, conform

to the Contract Documents; and

d. Review required certifications, guarantees, warranties, and service agreements for compliance with the Contract Documents.

3. Submittals will be accepted only from the Contractor.

4. Demonstrate and certify that all Shop Drawings have been reviewed by the Contractor and are in strict conformance with the Contract Documents as modified by Addenda, Change Order, Field Order or Contract Amendment when submitting Shop Drawings except for deviations specifically brought to the PCM's attention on an attached Shop Drawings Deviation Request form in accordance with Paragraph 1.03.A. Contract modifications can only be approved by Change Order or Field Order.

5. Furnish and install products that fully comply with the information included in the submittal. Contractor's responsibility for full compliance with the Contract Documents is not relieved by the review of Shop Drawings.

6. Payment will not be made for products for which Shop Drawings are required until these are approved by the PCM.

C. Product Data

1. Submit Product Data to document the products incorporated into the Project. Requirements for Product Data are the same as for Shop Drawings, however these documents will only be reviewed to determine that the information provided is adequate. No review or approval is required for Product Data.

D. Operations and Maintenance Data

1. Submit Operations and Maintenance Data for equipment provided for the Project.

1.04 CHANGE MANAGEMENT

A. Requests for a Change Proposal

1. PCM will initiate Modifications by issuing a Request for a Change Proposal.

B. Change Proposals

1. Submit a Change Proposal to the PCM for Contractor initiated changes in the Contract Documents or in response to a Request for a Change Proposal.

2. Provide a complete description of the proposed Modification if the Change Proposal is Contractor initiated. Provide a complete description of any proposed changes to the PCM's description of Modifications. Explain why the Modification is requested if not in response to a Request for a Change Proposal.

3. Provide a detailed breakdown of the proposed cost that complies with Article 13 of the General Conditions for Cost of Work if the Modification requires a change in Contract Price. The itemized breakdown is to be submitted on forms provided by the PCM and include:

a. List of materials and equipment to be installed;

b. Man-hours for labor by classification and billing rates by individual or classification of employee;

c. Equipment used in construction;

d. Consumable supplies, fuels, and materials;

e. Subcontractor or Supplier costs;

f. Royalties and patent fees;

g. Taxes;

h. Bonds and insurance;

i. Overhead and profit;

j. Field office costs; and

k. Other items of cost.

4. Provide a revised schedule. Show the effect of the change on the Project Schedule and the Contract Times.

5. Submit a Change Proposal to the PCM to request a Field Order if there is no proposed changed in Contract Price or Contract Times.

6. A Change Proposal is required for all substitutions or deviations from the Contract Documents, other than those requested a part of a Shop Drawings submitted in accordance with Paragraph 1.02. B.15.

C. PCM will evaluate the request for a Modification.

1. PCM will issue a Modification per the General Conditions if the Change Proposal is acceptable to the Owner. PCM will issue a Change Order or Contract Amendment for any changes in Contract Price or Contract Times.

2. The Contractor may be informed that the Request for a Change Proposal is not approved, and construction is to proceed in accordance with the Contract Documents.

D. Substitutions

1. Substitutions are defined as any product that the Contractor proposes to provide for the Project in lieu of the specified product. Submit a Change Proposal per Paragraph 1.04.B along with a Shop Drawing as required by Paragraph 1.03.A.

2. Prove that the product is acceptable as a substitute. It is not the Design Professional's responsibility to prove the product is not acceptable as a substitute.

1.05 COST MANAGEMENT

A. The Contract Price is to include costs for:

1. All home office overhead costs and expenses, including profit made directly or indirectly for the Project;

2. Project management, contract administration, field office and field operations staff, including supervision, clerical support, technology system support;

3. Professional services including design fees, legal fees, and other professional services;

4. Bonds and insurance;

5. Permits, licenses, patent fees, and royalties;

6. Taxes;

7. Providing all documentation, and submittals required by the Contract Documents;
8. Storage facilities for Contractor's use, storage facilities for stored materials and equipment, including spare parts storage;
9. Shops, physical plant, construction equipment, small tools, vehicles, technology and telecommunications equipment;
10. Safety equipment and facilities to provide safe access and working conditions for workers and for others working at the Site;
11. Potable water and sanitation facilities;
12. Mobilization and demobilization for facilities and equipment;
13. Products, materials and equipment stored at the Site or other suitable locations;
14. Products, materials and equipment permanently incorporated into the Project;
15. Temporary facilities for managing water, including facilities for pumping, storage, treatment as require for construction and protection of the environment;
16. Temporary facilities for managing environment conditions and Constituents of Concern originating from the Contractor;
17. Products, materials and equipment consumed during the construction of the Project;
18. Contractor labor and supervision to complete the Project, including that provided through Subcontractors or Suppliers;
19. Correcting Defective Work during the Contract Time, during the Correction Period, or as required to meet any warranty provision of the Contract Documents;
20. Risk associated with weather and environmental conditions, start-up and initial operation of facilities including equipment, processes and systems;
21. Maintenance of Project until transferred to Owner;
22. Providing warranties, extended or special warranties or extended service agreements;
23. Cleanup and disposal of all surplus materials;
24. Demobilization of all physical, temporary facilities not incorporated into the Project; and
25. Cost not specifically set forth as an individual payment item but required to provide a complete and functional system in the Contract Price.

B. Submit a Schedule of Values for the Work and draft Application for Payment form at least 10 days prior to submitting the first Application for Payment.
   1. These line items may be used to establish the value of Work to be added or deleted from the Project.
   2. The sum of all values listed in the schedule must equal the total Contract Price.
   3. Do not alter the Schedule of Values without approval of the PCM.
   4. Provide written approval of the surety company providing performance and payment bonds for the Schedule of Values, Application for Payment form, and method of payment prior to submitting the first Application for Payment. Submit approval using the Consent of Surety Company to Payment Procedures

form provided by the PCM. Payment will not be made without this approval.

C. Basis for Payments

1. Owner will pay Contractor for completion of the Work in accordance with the Contract Documents at the prices shown in the "Pricing Sheet" contained in the contract documents.

D. Retainage

1. Retainage will be withheld from each Application for Payment per the Agreement.

E. Procedures for Submitting Application for Payment

1. Submit Application for Payment in an Owner-Approved format.
    a. For each item, provide a column for listing: Item Number; Description of work; Scheduled Value, Previous Applications; Work in Place; Authorized Change Orders; Total Completed; Percentage of Completion; Balance to Finish; and Retainage.
2. Submit a draft Application for Payment to the PCM at the end of the payment period established in the Agreement.
    a. Number each application sequentially and include the dates for the application period.
    b. Complete the certification stating that all Work, including materials and equipment, covered by this Application for Payment have been completed or delivered and stored in accordance with the Contract Documents, that all amounts have been paid for Work, materials, and equipment for which previous Payment has been made by the Owner, and that the current payment amount shown in this Application for Payment is now due.
    c. Provide the Application for Payment in Excel and PDF formats. Contractor is responsible for checking equations and calculations each month to determine that equations incorporated into the spreadsheet have not been altered. Submit PDF documents with adequate resolution to allow documents to be printed in a format equivalent to the document original. Documents are to be scalable to allow printing on standard 8-1/2 x 11 or 11 x 17 papers.
3. Review the draft Application for Payment with the PCM to determine concurrence with:
    a. The quantity of Work completed for each unit price item;
    b. Retainage withheld.
4. PCM will submit Application for Payment for final approval and payment once agreement on the Application for Payment is reached with the Contractor.

F. Final Application for Payment

1. Final payment requires additional procedures and documentation per Paragraph 1.08.
2. The final Application for Payment is to incorporate adjustments to the Contract Price including those for:
    a. Approved Change Orders,
    b. Allowances not previously adjusted by Change Order,

c. Deductions for Defective Work that has been accepted by the Owner,

d. Penalties and bonuses,

e. Deductions for liquidated damages,

f. Other adjustments if needed.

3. PCM will prepare a final Change Order reflecting the approved adjustments to the Contract Price which have not been covered by previously approved Change Orders and if necessary reconcile estimate unit price quantities with actual quantities.

1.06 QUALITY MANAGEMENT

A. Contractor's Responsibilities

1. Control the quality of the Work and verify that the Work meets the standards of quality established in the Contract Documents.

2. Contractor provides all material testing specified in the contract documents

3. Contractor to perform all quality control for asphalt paving as directed in the Contract Documents.

4. Contractor will perform all concrete job control testing. This includes quality control and quality assurance tests.

B. Owner's Quality Management Activities

1. Owner will perform its own quality assurance tests independent of the Contractor's Quality Control Program as the Owner determines necessary. Quality assurance testing performed by the Owner will be paid for by the Owner.

2. Quality assurance activities of the PCM, through their own forces or through contracts with consultants and materials testing laboratories are for monitoring the results of the Contractor's Work to see that it complies with the requirements of the Contract Documents. Quality assurance activities or non-performance of quality assurance activities by the PCM:

a. Do not relieve the Contractor of its responsibility to provide Work or furnish products that conform with the requirements of the Contract Documents;

b. Do not relieve the Contractor of its responsibility for providing adequate quality control measures;

c. Do not relieve the Contractor of its responsibility for damage to or loss of Work or products before Owner's acceptance;

d. Do not constitute or imply Owner's acceptance; and

e. Do not affect the continuing rights of the Owner after OPT's acceptance of the completed Work.

3. Work is subject to Owner's quality assurance observations or testing at any time. Products which have been tested or inspected and approved by PCM at a supply source or staging area may be inspected or tested again by the OPT before, during or after incorporation into the Work and rejected if products do not comply with the Contract Documents.

1.07 EXECUTION AND CLOSEOUT REQUIREMENTS

A. Substantial Completion

1. Work must meet the acceptance standards set forth in the Specifications to be substantially complete.
2. Conduct inspections and create a list of deficiencies in the Work that must be completed for the project to qualify for Substantial Completion. Review the list with the PCM. The PCM may assist the Contractor with this effort; however, it is the Contractor's responsibility to create and manage this list of deficiencies until corrections are made.
3. Correct the identified deficiencies prior to calling for a Substantial Completion inspection. Notify the PCM that the Work is substantially complete. PCM will visit the Site to observe the Work within a reasonable time after the Notification by Contractor is received to determine the status of the Project. PCM will notify the Contractor that additional Work must be performed before the Project will be substantially complete or issue a Certificate of Substantial Completion.
4. Correct the deficiencies in the Work identified by the PCM. Notify the PCM when the noted deficiencies in the Work have been completed. PCM will visit the Site to observe the Work within a reasonable time after the Notification by Contractor is received to determine that noted deficiencies in the Work have been corrected or completed.
5. PCM will issue a Certificate of Substantial Completion to the Contractor when the PCM considers the Project to be substantially complete.

B. Final Inspection

1. The Project will be ready for Final Completion when the Work has been completed in accordance with the Contract Documents.
2. Provide the following acceptable Project closeout documentation / items:
    a. Documentation required by the Contract Documents.
    b. Evidence of continuing insurance and bond coverage as required by the Contract Documents.
    c. Final documentation that all outstanding Modifications and Claims (other than those listed on the Certificate of Final Completion) have been processed and are ready for incorporation into the Final Application for Payment.
3. Conduct inspections to create a list of deficiencies in the Work that must be completed for the project to qualify for the Final Completion inspection. Review the list with the PCM. The PCM may assist the Contractor with this effort; however, it is the Contractor's responsibility to create and manage this list of deficiencies until corrections are made.
4. Correct deficiencies prior to calling for a Final Completion inspection. PCM will visit the site to determine if the Project is complete and ready for Final Payment within a reasonable time after Notification by Contractor is received. PCM will notify the Contractor of Defective Work or Issue a Certificate of Final Completion.

5. Take immediate steps to correct Defective Work. Notify the PCM when Defective Work has corrected. PCM will visit the site to determine if the Project is complete and the Work is acceptable. PCM will notify the Contractor that the Project is complete or will notify the Contractor that Work is Defective.
6. PCM will issue a Certificate of Final Completion to the Contractor when the PCM considers the Project to be finally complete.

END OF SECTION

GENERAL NOTES:

Hot Mix Basis of Estimate

ITEM	DESCRIPTION	*RATE (approx.)
3076	1” D-GR HMA TY-D PG70-28	115 LBS/SY
3076	4” D-GR HMA TY-B PG70-28	460 LBS/SY
3076	2” D-GR HMA TY-C PG70-28	230 LBS/SY

*Actual rates will be determined by Engineer in Field

Hot Mix Area (SY)

CSJ	MIX TYPE	SY
0905-06-115	1” D-GR HMA TY-D PG70-28	8,506 SY
0905-06-115	4” D-GR HMA TY-B PG70-28	73,245 SY
0905-06-115	2” D-GR HMA TY-C PG70-28	73,245 SY

Surface Treatment Basis of Estimate

DESCRIPTION	PRIME COAT	FOG SEAL	TACK COAT
ASPH TYPE & GRADE	MC-30	CSS-1H	Trackless
ASPH RATE (GAL/SY)	0.20	0.15	0.14
AGGR TYPE			
AGGR GRADE			
AGGR RATE (CY/SY)			

Est. shot rate is 0.30 GAL/SY (50% Asph. Emul./50% Water) or as directed.

Surface Treatment Area (SY)

CSJ	PRIME COAT	FOG SEAL	TACK
0905-06-115	73,245 SY	73,245 SY	73,245 SY

County: Lubbock **Control:** 0905-06-115

Highway: CS Sheet 16

W.W.A.R.P

Provide coarse aggregate for all surface hotmix and overlays meeting a minimum class of **A** as published in the *AGGREGATE QUALITY MONITORING PROGRAM RATED SOURCE QUALITY CATALOGUE*.
Provide coarse aggregate for all base hotmix and surface treatments meeting a minimum class of **B** as published in the *AGGREGATE QUALITY MONITORING PROGRAM RATED SOURCE QUALITY CATALOGUE*.

Item 1 – Abbreviations and Definitions

Contract Prosecution – Each contract awarded by the County stands on its own and as such, is separate from other contracts. A contractor awarded multiple contracts, must be capable and sufficiently staffed to concurrently process any and all contracts at the same time.

Project Description – This project consists of performing pavement widening from two lanes to five lanes at Woodrow Road in Lubbock County.

Lubbock County Project Supervisor – The project will be managed by Rodshadi Moore, Lubbock County Director of Road and Bridge - (806) 775-1662, 916 Main St #1220 Lubbock, Texas 79401.

Item 2 – Instructions to Bidders

The following standard(s) have been modified:

- TRANS-20(MOD)

Project documents including the construction time determination schedule and cross-sections will be available for download at https://lubbock.bonfirehub.com

By signing this proposal, a bidder acknowledges that he/she has a copy of the “Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges”, adopted by the Texas Department of Transportation, November 1, 2014. This specification book may be purchased from the Department or downloaded at:
http://www.txdot.gov/business/resources/txdot-specifications.html

Utilities

Overhead and underground utility installations exist within the project limits.

For the purpose of this Special Provision, Underground Facilities shall be defined as all pipelines, conduits, ducts, wires, cables, manholes, vaults, tunnels or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials: electricity, gases, steam, liquid

petroleum products, telephone or other communications, cable television, sewage and drainage removal, traffic or other control systems or water.

The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the site is based on information and data furnished to OWNER or ENGINEER by the owners of such Underground Facilities or by others. Unless it is otherwise expressly provided in the General Conditions of the Agreement:

- OWNER and ENGINEER shall not be responsible for the accuracy or completeness of any such information or data; and
- The cost of all the following will be included in the Contract Price and CONTRACTOR shall have full responsibility for:
  - reviewing and checking all such information and data,
  - locating all Underground Facilities shown or indicated in the Contract Documents,
  - coordination of the Work with the owners of such Underground Facilities during construction, and
  - the safety and protection of all such Underground Facilities shall be the Contractor's responsibility. Any damage by the Contractor during the prosecution of the work contemplated by this contract shall be repaired immediately by the Contractor to the satisfaction of the facility owner, at the Contractor's expense.

If an Underground Facility is uncovered or revealed at or contiguous to the site which was not shown or indicated in the Contract Documents, CONTRACTOR shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby of performing any Work in connection therewith (except in an emergency as required to prevent injury, loss of life, or damage to property), identify the owner of such Underground Facility and give written notice to that owner and to OWNER and ENGINEER.

Item 5 – Control of the Work

Contractor to coordinate approval of job survey control with Lubbock County prior to beginning work and at anytime when requested by the County during construction.

Perform construction surveying in accordance with Article 5.9.3, "Method C."

When deviation from the plans is requested by the Contractor, but not required for installation, the Contractor will bear any additional costs associated with the deviation.

Alter the location of all ground boxes, foundations and structures shown on the plans only as approved by the Engineer in writing. Contact the Engineer prior to installing ground boxes, foundations and structures in order that the Inspector may verify and approve the location.

Restore all disturbed areas due to trenching or any construction activity to a condition equivalent to the original condition within 14 working days from the time work began in the area including all necessary stabilization.

County: Lubbock **Control:** 0905-06-115

Highway: CS Sheet 16A

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

At the end of each day remove from the ROW, inside or outside the project limits, any excess material and debris resulting from construction.

Profile grade line and gutter elevations are very important during this project.

Correct any deficiencies identified during the final inspection including required paperwork.

Submit all required paperwork within 60 days of project acceptance.

Item 6 – Control of Materials

Use materials from pre-qualified producers. A list of material producers pre-qualified by the Construction Division (CST) of the Texas Department of Transportation (TxDOT) can be found at the following website:
http://www.txdot.gov/business/contractors_consultants/producer_list.htm

In addition to the requirements of the plans and specifications, make all material and equipment furnished, installed, modified, tested, or otherwise used on this contract, and becoming the property of Lubbock County, fully functional within the manufacturer normal specifications, warranties, and guarantees. Make any additional functions of the material and equipment normally supplied by the manufacturer, but not specified by Lubbock County, completely functional.

Provide the County 30 days to test all materials and resolve any disputes.

Article 6.6

Receive and unload all materials with Contractor's personnel.

Article 6.11

Repair damage to the Right of Way to the satisfaction of the project supervisor.

Item 7 – Legal Relations and Responsibilities

Coordinate street closures with Lubbock Cooper ISD, the local fire, police, sheriff's office and other emergency personnel.

Maintain access to adjacent property at all times.

Notify, in writing, each residence and business 10 days prior to beginning construction of the phase/phases that are expected to affect their ingress and egress. This notice may be hand delivered or mailed.

When applicable, comply with all requirements of the Environmental Permits Issues and Commitments (EPIC) sheets.

Provide a lidded dumpster to be used by Contractor's personnel on the job site. The lid or covering to the dumpsters needs to be able to stay closed in high winds for preventing trash from being blown out. This shall be considered subsidiary to the various bid items.

Dispose of all waste materials in compliance with local, state, and federal regulations. Submit a list of all approved waste sites to the Engineer for review.

The Contractor is hereby made aware that **Lubbock Cooper ISD** will have events throughout the year. Suspend work during these events for the safety of the traveling public as directed by the Engineer. **Roadway closures during these events will be prohibited.**

Roadway closures during the following key dates and/or special events are prohibited:
On High School Football gameday's all work must be stopped by 5 P.M.

All vehicles in the work zone shall use flashing amber strobe lights visible 360 degrees.

Concrete trucks operating on interstate highways will not be allowed to carry more than 6 cubic yards (CY) of concrete, unless the truck utilizes a lift (third) axle.

Item 8 - Prosecution and Progress

This project is to be complete in 833 calendar days, with months of barricades provided in accordance with the contract documents.

Start work date is estimated 2/9/2026, pending official Notice to Proceed from the Owner. Do not begin work before or after this period unless authorized in writing by the Owner.

Work on CR 2330 restricted until June 2026, or after the LCISD school year has concluded, whichever occurs first. Contractor must coordinate and receive notice to proceed from Lubbock County to begin this work. Only applicable if the respective alternate bid is selected.

Monthly schedule updates are a very important aspect of managing the progress of this project. The Engineer may withhold the monthly estimate if the schedule update has not been received.

A P6 Compatible Critical path method will be required on this project.

Do not begin work before sunrise or end work after sunset unless authorized by the Engineer and remove all equipment from the roadway before sundown.

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Highway: CS Sheet 16B

Perform any erosion control measures such as seeding or sodding before beginning the next phase, or land, unless otherwise authorized by the Engineer.

Work around existing culverts, signs, mailboxes, object markers and delineators. Any damages resulting from the Contractor's operation shall be repaired by the Contractor to the satisfaction of the Engineer.

Working days will be computed and charged in accordance with Article 8.3.1.4 Standard Workweek.

Liquidated damages as defined in SP 000-1622 ($3072) will be increased by the calculated road user cost of $5806, for a total of $8878 per day.

Shut down operations by 3PM the working day before the following major traffic generating holidays: January 1st (New Year's); Last Monday in May (Memorial Day); July 4th (Independence Day); First Monday in September (Labor Day); Fourth Thursday in November (Thanksgiving); and December 24th (Christmas Eve).

Payment for final 3% mobilization will be made according to Article 500.3. Timeliness for submittal of required paperwork and correction of deficiencies is a consideration in developing the final contractor evaluation score.

Item 9 - Measurement and Payment

Submit material-on-hand payment requests by the monthly estimate cutoff date.

Material-on-hand will be paid item for item regardless of how the work was bid.

Item 100 - Preparing Right Of Way

Sprinkler systems shall be cut at the right-of-way line and restored to operating conditions using a licensed irrigator. Payment for this work shall be considered subsidiary.

Item to be used for the preparation of areas to receive embankment, small tree removal less than 6" diameter, and removals not itemized.

Items 110 And 132 - Excavation and Embankment

Provide Type C Embankment conforming to the following material specifications:

Liquid Limit (maximum)	45
Plasticity Index (maximum)	25
Bar Linear Shrinkage (minimum)	2

Consider all embankment to be Earth Embankment in accordance with Article 132.3.1.

Proof roll, as directed by the Engineer.

Excavation and embankment work shall be completed full width. There cannot be multiple `s in a lane.

Item 160 - Topsoil

Salvage and stockpile topsoil from areas designated for topsoil placement. Maximum salvage depth is 6-in.

Place a 4-in. layer of Topsoil to designated areas.

Item 164 - Seeding For Erosion Control

Notify the Engineer of scheduled seeding operations 24 hours prior to seeding applications. Do not begin seeding operations until the Engineer has approved seedbed preparations. Locate and flag all irrigation heads, valve covers, utility facility covers, etc. prior to commencing seed application operations.

Leave the seeded area lightly tracked in order to establish a better environment for seed germination.

Furnish seed tags from the seed supplier to the Engineer for verification of quantity and type.

Place cellulose fiber mulch (hydromulch) on all seeded areas.

Apply hydromulch from two opposite (180 degrees) directions to prevent “shadowing” and to provide an even coverage. Add tackifier to the slurry at a minimum of 3 percent of total volume as specified by the manufacturer, or as directed by the Engineer.

Do not disturb or drive on newly seeded areas. Repair any damage to the seeded areas to the satisfaction of the Engineer.

A Cultipak planter may be used in lieu of drill seeding.

Item 166 - Fertilizer

Provide and use a granular, commercial-grade, 15-5-10 analysis, "SCU" slow release fertilizer, applied at 660 lbs/acre.

Apply fertilizer prior to seeding, or simultaneously with the seeding operation, but prior to the hydromulch application.

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Highway: CS Sheet 16C

Item 168 - Vegetative Watering

Water newly seeded or sodded grass areas with a minimum of two-tenths (2/10) of an inch per day for 30 consecutive days and as directed.

Water from a tanked, spray-equipped vehicle capable of spraying water to all such areas without driving or trailering the vehicle on said areas.

Furnish and apply water containing less than 10,000 parts per million solids (as determined by evaporation).

Items 162, 164, 166, And 168

Furnish and place hay mulch or cellulose fiber mulch, seed, fertilizer, and vegetative watering on all cut and fill slopes as soon as each construction sequence will allow, but within 14 days of the end of the construction phase and prior to beginning a new construction phase. Leave the seeded area lightly tracked in order to provide the seed a better environment for germination.

Item 216 – Proof Rolling

Provide a 25-ton roller, or other equipment approved by the Engineer for proof rolling.

Proof roll as directed.

Item 247 - Flexible Base

Provide TY A Grade 4 flexible base.

SPECIFICATION DATA
TEST TO BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION
STANDARD TEST METHOD
FLEXIBLE BASE SPECIFICATION DATA

GRADING REQUIREMENTS PERCENT RETAINED – SIEVES SIEVE SIZES INCHES					**SOIL CONSTANTS**		**MAX WET BALL**	**MAX % INCREASE**	**MIN STRENGTH 15 PSI**
1 3/4	7/8	1/2	#4	#40	L.L. MAX	P.I. MAX			
0	10-30	30-55	50-75	70-90	40	15	50	25	150

The addition of field sand to reduce the plasticity index a maximum of three points below the original P.I. is permitted. Introduce field sand at the crusher on a feed belt prior to building the stockpile.

The addition of lime, or suitable material as approved by the Engineer, is permitted to reduce the plasticity index, if the mixture is mixed on the road or in a pugmill just prior to placement.

Proof roll as directed by the Engineer.

Provide the County at least 30 days to perform material testing on the flex base.

Item 275 – Cement Treatment (Road-Mixed)

Use the target rate of 3% percent by weight, based on an estimated unit weight of 125 pounds per cubic foot, unless otherwise directed by the Engineer. The actual rate to be used will be based on laboratory tests that yield a strength of 200 psi at unconfined lateral pressure unless otherwise directed by the Engineer.

Use a vane feeder system to distribute cement.

Cure treated base courses for a minimum of 72 hours before priming unless otherwise directed by the Engineer.

Asphalt material will not be permitted for curing.

Remove and replace areas that lose required moisture, stability or finish. Continue work until specification requirements are met and perform work at no additional expense to the County.

Microcrack the treated base. This work is considered subsidiary.

Proof roll as directed by the Engineer.

A BOMAG or milling machine will not be allowed for initial scarifying of existing material. Use other means to scarify.

Allow 30 days for testing of material.

Item 302 - Aggregates for Surface Treatments

Precoat aggregate with PG64-22 asphalt. Use Evotherm as the anti-stripping agent or an approved equivalent. The use of flux oil is not permitted.

Cure precoated aggregate a minimum of 72 hours before applying the aggregate to the roadway surface.

Aggregate will be subjected to five cycles of the magnesium sulfate soundness test in accordance with Test Method TEX-411-A. The loss shall not be greater than **20** percent.

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Highway: CS Sheet 16D

The Contractor shall verify that stockpile locations do not interfere with any drainage channels.

The Contractor shall wet stockpiles to control dust as directed by the Engineer.

Allow 60 days for testing of material.

Item 310 - Prime Coat

Apply a prime coat to all finished treated base, new flexible and salvage base due to receive asphaltic concrete pavement or surface treatments. Remove all loose and scabbed material from the surface prior to prime coat application.

Allow the prime coat to penetrate and dry for a minimum of 72 hours before placing any asphaltic material on the primed surface, unless otherwise authorized by the Engineer.

Item 315 - Fog Seal

Apply the emulsified asphalt and water mixture, as directed by the Engineer.

Item 320 – Equipment for Asphalt Concrete Pavement

Provide waterproof tarpaulins on all hauling equipment.

Item 351 – Flexible Pavement Structure Repair

Saw cut at least two inches deep around the edges of concrete or asphaltic pavement to be removed, unless otherwise directed by the Engineer.

The type and grade of tack coat shall be AC or PG.

The type and grade of prime shall be MC-30.

A motor grader, for full width repairs, will be allowed only as directed by the Engineer.

Use a roadway structure of 6-in. Flex Base and Two Course Surf Treatment for repairs.

Item 354 – Planing and Texturing Pavement

Excess RAP will become the property of the contractor to dispose of safely, according to local regulations or to use for temporary drives, pavement drop-off ramps, etc. as needed.

Item 360 - Concrete Pavement

Multiple piece tie bars will be required.

Saw cut the perimeter of the concrete paving and seal with a class 5 or class 8 joint-sealant materials and fillers conforming to Item 438, “Cleaning and Sealing Joints.” Compensation for joint sealing is subsidiary to the respective concrete item.

Use Method B, as shown on JS-14, to seal joints.

CRCP will be designed using the Optimized Aggregate Gradation (OAG) procedure, in accordance with Tex-470-A.

Design the CRCP with a minimum of 10% - 35% fly ash.

A pre-paving meeting will be required.

Submit a paving plan detailing the location of joints and the sequence of paving to the Engineer a minimum of fourteen (14) days before paving begins.

Use number 6 reinforcing bars.

The Engineer reserves the right to require fibrillated fibers in the mixture to mitigate dry shrinkage cracking. Payment will be subsidiary.

Concrete paving adjacent to existing Concrete Paving will require a neat saw cut edge and dowelling as per Item 361. This work will be considered subsidiary to Item 360.

The pay limits for concrete paving will not include curb and gutter sections, even when the curb and gutter is placed monolithically with the concrete paving. For measurement and payment purposes, curb and gutter sections are considered 24 inches wide.

Cold weather protection requirements within 72 hours of a concrete paving pour as per the following table:

PROJECTED LOW TEMP	PROTECTION REQUIRED
< 20 degrees	DO NOT POUR
20-27 degrees	cover with plastic, then a insulating blanket, and plastic on top
28-35 degrees	cover with plastic, then a insulating blanket
> 35 degrees	no protection required

All projected temperatures will be based on the NOAA website. None of the above actions releases the Contractor from the responsibility for freeze damaged concrete for whatever reason.

Stockpiling of earthen or rock materials on concrete paving will not be permitted.

Hotmix must be removed to within 12” of edge of concrete paving prior to placement of topsoil. This work shall be subsidiary.

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Highway: CS Sheet 16E

Unless otherwise directed, use coarse aggregate to produce concrete, with a coefficient of thermal expansion (COTE) less than or equal to 5.5 microstrain/degree F when tested in accordance with Tex-428-A. Provide samples or test specimens as directed and allow 30 days for testing. Inspector will perform the testing and test results are final. Testing is required for naturally occurring aggregates.

Place the evaporation retarder right after the finish float and before the curing compound.

Schedule the placement width in a manner such that all joints will coincide with proposed lane lines (+/- 6 inches).

Concrete test specimens will be cured under the same conditions as the pavement. Make 3 sets of cylinders. Cylinders will not be moved for 3 days and will not be stripped until out of their molds until testing.

Contractor will perform all concrete job control testing.

Cure the transition slab with SS-1 emulsion. This is considered subsidiary.

Saw the contraction joints within 12 hours of concrete placement.

Provide good consolidation at the construction joints.

Contractor is required to have a cylinder bath.

Contractor may need to pave less than 10’ in width on this project.

Incentive bonus is not applicable for this project. Max pay factor shall be 1.0 for placement and production. Penalties are applicable as described within TxDOT specifications.

Item 400 - Excavation and Backfill for Structures

Furnish crushed caliche or sand and gravel as aggregate for cement stabilized backfill.

Deliver the cement stabilized backfill in a mixer truck in a flowable state and capable of filling all the voids.

Construct fill over structures to plan grade before hauling with heavy equipment over structures.

Compact backfill used for structures, other than flowable backfill, to a minimum density of 95 percent.

Use a template in order to secure reasonably accurate Class C shaping of the foundation material outside of cement stabilized areas.

Contact the utility company and properly secure the utility poles prior to excavating next to the utility poles. The work and material used to secure the utility poles are subsidiary to the pertinent items.

Item 402 - Trench Excavation Protection

Maintain trench protection to protect inspectors and Contractors during testing operations.

Item 403 – Temporary Special Shoring

The intent of this item is to provide a coffer dam for structures in playa lakes so the water may be pumped out and work resumed after a rain event.

Item 420 - Concrete Substructures

Furnish and place preformed fiber material, a minimum one-half (1/2)-inch thick, as shown on the plans or directed by the Engineer.

Furnish a temperature recorder with the minimum capabilities of a 7-day recording time, 2-degree F division, and 120 VAC with 9-volt backup, for each curing tank used on the project. Supply all charts, recording pins, and other equipment necessary for complete operation of the temperature recorder during the project. The temperature recorder and all associated equipment will not be paid directly, but will be subsidiary to the various bid items.

Use Grade 3 or Grade 4 coarse aggregate in all concrete structures.

Cold weather protection requirements within 72 hours of a concrete pour as per the following table:

PROJECTED LOW TEMP	PROTECTION REQUIRED
< 20 degrees	DO NOT POUR
20-27 degrees	cover with plastic, then an insulating blanket, and plastic on top
28-35 degrees	cover with plastic, then an insulating blanket
> 35 degrees	no protection required

All projected temperatures will be based on the NOAA website. None of the above actions releases the Contractor from the responsibility for freeze damaged concrete for whatever reason.

Coring of structural classes of concrete will not be allowed. All coring of miscellaneous concrete shall be at the Contractor's expense including all prep work. Coring must be completed within 3 days of notice of failing 28-day samples; otherwise pay deductions apply using 28-day compressive strength.

Provide TY II curing compound for all curb and gutter, sidewalks, driveways, curb ramps, riprap, and cast-in-place SET's.

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Highway: CS Sheet 16F

When doweling into concrete, clean out the hole to Inspectors approval, fill completely with epoxy, then place the dowel. Do not dip the dowel into epoxy first and shove it into the hole.

Do not place concrete when the wind gusts get to over 25 miles per hour.

Install the NBI number on bridges per the NBIS standard.

Place the evaporation retarder right after the finish float and before the curing compound.

Vibrate all concrete

Item 421 - Hydraulic Cement Concrete

If fly ash is used, a maximum of 35% will be allowed.

Furnish Class HES concrete which will develop a minimum strength of 3000 psi within 24 hours. Can be used at driveways as directed by the Engineer.

Provide air entrainment in all concrete except for concrete used in drilled shafts and precast concrete members. Target an entrained air content of 4.0% +/- 1% for concrete pavement and 5.5% +/- 1% for all other concrete requiring air entrainment. Ensure the minimum entrained air content is at least 3.0% for all classes of concrete.

The Engineer will perform all concrete job control testing.

Supply 2 – 4' x 8' x ¾" sheets of plywood, in order to perform required testing procedures at the location of concrete placements.

Use 4-inch by 8-inch cylinder molds for concrete with Grade 3 or smaller coarse aggregate. Supply new cylinder molds and lids subsidiary to the various bid items.

The Engineer will inspect concrete batch plants and trucks for approval.

Concrete plant must be capable of providing automated moisture content control for both coarse and fine aggregate.

Item 427 - Surface Finishes For Concrete

Provide surface area I concrete surfaces with a rub finish as soon as forms are removed.

Item 432 - Riprap

Provide 4-inch thick concrete riprap, unless otherwise indicated in the plans.

Reinforce with steel reinforcing using either #3 bars on 12”x12” spacing or #4 bars on 18”x18” spacing centered in the slab, unless otherwise specified in plans. Fiber reinforcement or welded wire will not be allowed.

In large areas of riprap, provide one-half (1/2)-inch thick expansion joint material at maximum 60-foot intervals, or as determined by the Engineer. Compensation for joint sealing is subsidiary to the respective concrete item.

Place asphalt expansion joint material between proposed riprap and utility poles, guy wires, vent pipes, standpipes and as directed. Compensation for joint sealing is subsidiary to the respective concrete item.

Place felt or filter fabric at open joints as required by the Engineer. This will be considered subsidiary.

Follow cold weather protection requirements listed under Item 420.

Seal between concrete boundaries.

All concrete will be vibrated to remove air pockets and ensure adequate compaction between aggregate particles.

No precast riprap will be allowed on this project.

Item 464 - Reinforced Concrete Pipe

Join all concrete culvert pipe with a cold-applied plastic asphalt sewer joint compound.

Item 467 - Safety End Treatment

Install reinforced concrete aprons on all Type I SET, using reinforcing composed of #4 bars at 12-inch spacings, center-to-center, or as shown on the detail sheet.
Install riprap around all precast SETs. The riprap shall be Class B and reinforced in accordance with Item 432.3.1. Precast riprap is not allowed.

Item 496 - Removing Structures

Material to be disposed of safely according to local regulations.

Item 504 - Facilities for Field Office and Laboratory

Furnish one Type D structure and one Type B structure. Field offices and laboratory shall be located adjacent to the project site.

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Highway: CS Sheet 16G

The contractor will furnish a concrete cylinder breaker and cylinder bath, subsidiary to the furnished field laboratory. Provide calibration documentation for all supplied equipment.

Partition the floor of the Type D structure into a minimum of three interconnected rooms. Furnish each room with a door. Type D structure must have at least two windows and two exterior doors. Block and tie down portable structures.

Equip the Type D field lab with an eyewash facility capable of flushing the eyes for at least 15 minutes, connected to the main water supply or an approved stand-alone water supply.

Encompass the field office only with a fence enclosure providing a minimum 6.5-foot clearance around the perimeter of the field office.

Provide internet connectivity, a printer/fax/scanner/copier, and telephone service to field offices, including installation, monthly charges and the phones.
Equip all field offices and field labs with a surge protector at the circuit breaker panel.

Item 506 - Temporary Erosion, Sedimentation, and Environmental Controls

Place a weatherproof bulletin board containing the TCEQ required information on the project at a site directed by the Engineer. Post the following documents: (1) "TCEQ TPDES Storm Water Program" Construction Site Notice and (2) TCEQ "TPDES Permit." Place rain gauge(s) at locations designated by the Engineer. At the completion of the contract, the bulletin board will become the property of the State and will remain in place until 70 percent vegetation coverage has been obtained.

Provide long-term, Type 1 construction exits, located at the Contractor's equipment storage area.

Silt fence, sandbags and other BMPs will be placed and relocated as directed by the Engineer in order to comply fully with the SW3P requirements.

The soil area disturbed by this project, including all disturbed areas within the limits of this project as described in the Contract and at Contractor project specific locations (PSLs) within one mile of the project limits, contributes to the establishment of the Texas Commission on Environmental Quality (TCEQ) Construction General Permit (CGP) requirements for storm water discharges. The County will obtain an authorization from the TCEQ to discharge storm water for construction activities shown on the plans. The Contractor shall obtain the required authorization from the TCEQ for Contractor project specific locations (PSLs) for construction support activities off the right-of-way. As directed by the Engineer, the Contractor shall obtain any required authorization from the TCEQ for on-site PSLs. When the total area disturbed within the project limits and at PSLs within one mile of the project limits exceeds five acres, the Contractor shall provide a copy of the Contractor’s Notice of Intent (NOI) submission and Construction General Permit for PSLs on the right-of-way to the Engineer (and submit a copy of NOIs to appropriate MS4 operators).

Water pumped off the project must have sediment and any other solids in suspension removed before discharging.

Sediments removed from BMPs shall be subsidiary to the respective BMP items.

Correct all noted deficiencies within 7 calendar days, otherwise, cease all operations until the noted deficiencies are corrected.

Maintain 100 feet of silt fence, 100 feet of erosion control logs, and 50 sandbags on site at all times for repairs/replacement as needed.

Item 508 - Constructing Detours

Provide detour sections consisting of four inches of Type B hot mix on prime coated compacted subgrade to lines and grades directed by the Engineer.

Any drainage pipe or SETs required for detours is subsidiary to this Item. The minimum pipe size is 18 inches.

Item 529 - Concrete Curb, Gutter and Combined Curb and Gutter

Place one-half (1/2)-inch pre-molded expansion joint material at 40-foot intervals and at the beginning and end of all radii. Place 3/25-inch grooved or sawed construction joints, as directed by the Engineer, spaced equally, with the spacing not to exceed ten feet between joints. Compensation for joint sealing is subsidiary to the respective concrete item.

Monolithic curb and gutter will be allowed on this project, at the owner and Engineer's approval.

All concrete curb and gutter shall be reinforced with four #4 bars.

The lip of gutter and back of curb shall be formed. The existing pavement edge shall not be used as the form.

Mortar will not be used to finish curb and gutter.

The joint between the lip of gutter and HMAC shall be sealed. Compensation for joint sealing is subsidiary to the respective concrete item.

All concrete will be vibrated to remove air pockets and ensure adequate compaction between aggregate particles.

Item 530 – Intersections, Driveways, and Turnouts

Class A Concrete is to be used for all driveways but Class HES Concrete will be allowed at the Engineer's discretion.

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Highway: CS Sheet 16H

Reinforce concrete driveways with # 4 bars on 12"x12" grid spacing centered in the slab depth.

All concrete will be vibrated to remove air pockets and ensure adequate compaction between aggregate particles.

Item 531 - Sidewalks

Construct concrete sidewalks at least four inches thick, reinforced with # 3 bars on 18"x18" grid spacing centered in the slab depth. The locations and details shown on the plans may be field modified by the Engineer.

In areas where there is no curb fillet or concrete pavement, saw cut the existing curb and gutter and remove the curb.

Construct curb ramps in conformance with details shown on the plans. The accessibility of the curb ramps shall be according to the "Americans with Disabilities Act (ADA)."

When lack of right of way width or obstructions creates insufficient space, the ramp may be relocated within the right of way when authorized by the Engineer. All deficient ramps will be removed and replaced at the Contractor's expense.

Form tooled joints on each side of the four-foot wide ramp section, and at each break in ramp slope or geometry, and at four-foot intervals as if it were sidewalk. Place asphalt expansion joint material between proposed ramps and existing concrete. Compensation for joint sealing is subsidiary to the respective concrete item.

Form tooled joints in sidewalk at 6' intervals or as directed.

Place asphalt expansion joint material every 40 ft and between proposed sidewalk and utility poles, guide wires, vent pipes, stand pipes and as directed. Compensation for joint sealing is subsidiary to the respective concrete item.

All curbs on curb ramps will not be paid for directly but are considered subsidiary to the various bid items.

Notify the Engineer 48 hours in advance of beginning operations at a new location.

Schedule work such that two-way traffic is provided through all intersections and intersecting streets at all times, unless otherwise authorized by the Engineer.

Complete construction at curb ramp locations within ten working days. This includes concrete removal, concrete placement, backfilling, surface preparation for pavement markings, prefabricated pavement markings, and repair of existing pavement. Failure to finish within ten

working days will result in restricting the number of ramp locations that may be under construction at any given time.

Chicago-brick-red truncated dome brick pavers or an equivalent approved by the Engineer are required for all curb ramps.

Removal and disposal of existing asphaltic concrete is considered subsidiary to this item.

Follow cold weather protection requirements listed under Item 420

All concrete will be vibrated to remove air pockets and ensure adequate compaction between aggregate particles.

Item 560 - Mailbox Assemblies

Move and replace all mailboxes within the project limits such that they may be served by the mail carrier from his car at all times during and after construction. This work will be considered subsidiary to the various bid items of this contract.

Final placement shall include new metal mailboxes of similar size to the original mailbox, at mailbox turnout locations specified in the plans.

Item 585 - Ride Quality for Pavement Surfaces

Use Surface Test Type A on hotmix and concrete.

Corrective action, when required, shall be diamond grinding, as approved and directed by the Engineer. Seal all concrete surfaces after grinding with linseed oil or as directed. This work is considered subsidiary.

Item 610 – Roadway Illumination Assemblies

For project specific shop drawings, furnish seven sets of drawings of the complete assembly in accordance with Item 441, “Steel Structures”. Deliver shop drawings to the Engineer at the project address.

Contractor to provide a schedule and notify the District Traffic Office a minimum of 3 days prior to any illumination installation adjacent to Slide Road (FM 1730). Contact via email at LBB-TRFOPS@TxDOT.GOV.

Item 618 - Conduit

The location of conduit is diagrammatic and may be varied to meet local conditions upon approval of the Engineer. Ensure all couplings and connectors are made wrench tight. Trenching depths shall provide a minimum of 2.5 feet (30 inches) of cover unless otherwise

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Highway: CS Sheet 16I

approved by the Engineer. The Contractor must ensure that conduit is not damaged during trench or bore pit backfilling operations. No conductors shall be pulled through conduit until all backfilling for the conduit run is complete and the template, having a diameter of not less than 75 percent of the inside diameter of the conduit, has been drawn through the conduit. Open ends of all conduit shall be fitted with temporary caps or plugs to prevent entry of dirt or debris during construction operations. A non-metallic pull rope shall be used to pull electrical conductors and traffic signal cables through non-metallic conduit. A flat, high tensile strength polyester fiber pull rope shall be pulled through each conduit run and shall remain in the conduit for future use. A minimum of three feet of pull rope shall be neatly left coiled in the ground boxes at each end of the conduit run. The pull rope will not be paid for directly but shall be considered subsidiary to Item 618, “Conduit.” After the work is completed, the Contractor shall restore any curbs, walks, driveways or raised concrete medians which have been damaged or disturbed to an equivalent original condition and to the satisfaction of the Engineer. This work shall not be paid for directly but shall be considered subsidiary to Item 618, “Conduit.”

Use Schedule 80 PVC conduit for all traffic and illumination portion of this project. Bored conduit runs placed under driveways and streets or highway approaches shall maintain a minimum of 30 inches below the proposed natural ground elevation or 36 inches below the existing driveway or proposed top of pavement backfill and compact trenches the same day or erect plastic fencing to discourage entry into the trenched area by pedestrians or vehicles.

Item 620 – Electrical Conductors

Grounding conductors that share the same conduit, junction box, ground box or structure shall be bonded together at every accessible point in accordance with the electrical detail sheets (ED), and the latest edition of the National Electrical Code.

Use certified persons to perform electrical work. See Item 7 Section 18.1.3 “Electrical Requirements” for additional details.

Item 628 - Electrical Services

Secure a permit for electrical service from South Plains Electric Cooperative (SPEC). Coordinate with SPEC during the first three weeks of the project lead-time period allowing adequate time for any necessary utility adjustments, transformer installation, etc. All necessary expense for power service connection shall be considered subsidiary to Item 628 "Electrical Services".

The COUNTY will be responsible for energy consumed by the new electrical service locations. These charges should be billed to Lubbock County, 904 Broadway, Lubbock, TX 79401

Silk screening or other acceptable methods are to be used to label the service enclosures indicating that the power provided is for the ITS System. Labeling service enclosures will be considered subsidiary to the bid Item 628: Electrical Services and will not be paid for directly.

Provide circuit breaker and install when additional circuit from existing electrical service is called for in the plans.

Concrete for service pole foundations, when required, will be Class C and will be in accordance with Item 421: Hydraulic Cement Concrete, except that concrete will not be paid for directly but is to be considered subsidiary to Item 628: Electrical Services. Reinforcing steel for service pole foundations, when required, will be in accordance with Item 440: Reinforcing Steel, except that reinforcing steel will not paid for directly but is to be considered subsidiary to Item 628: Electrical Services.

Item 644 - Small Roadside Sign Assemblies

All signs on this project, new or relocated, will require a retroreflective wrap on the sign support. This wrap shall be 12 inches in height, visible in all directions and shall be placed 3 ft. below the bottom of the sign. The color for YIELD, STOP, WRONG WAY, and DO NOT ENTER signs shall be red. The color for all other signs shall be yellow. This retroreflective wrap will not be paid for directly but considered subsidiary to Item 644.

Stake all sign locations, and receive approval from the Engineer, prior to sign placement.

The triangular slip bases will be the two-bolt clamp type (Southern Plains Fabrication or equivalent). For more information refer to the approved materials producers list: http://www.txdot.gov/business/resources/producer-list.html

Items 644 & 647

Perform the following work subsidiary to Items 644 and/or 647.
For all signs designated for removal:

- Salvage aluminum signs,
- Palletize and band salvaged aluminum signs,
- Coordinate stockpile location with:

Name	Phone Number
Rodshadi Moore, Lubbock County Director of Road & Bridge	(806) 775-1662

Item 656 - Foundations for Traffic Control Devices

Do not extend traffic signal pole foundations more than two inches above natural ground, medians or other surfaces surrounding the drilled shaft unless approval is obtained from the Engineer.

Use Class “C” concrete for traffic signal pole foundations.

Locate the bases for signal poles a minimum of 4 feet from the face of vertical curbs.

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Highway: CS Sheet 16J

Item 658 - Delineator and Object Marker Assemblies

Delineator and object marker assembly posts shall be drivable and composed of post-consumer recycled materials. Embedded stub shall be perforated square tubing.

Driveable posts shall be the three-piece Flexible Delineator Post System, utilizing a 2-3/8” round post with a square to round flexible joint. The Embedded Anchor shall be 2" x 12 gauge x 24" long steel perforated square tubing. The Posts shall be permanently sealed at the top and have a 3-1/2” wide x 13" flattened surface to accommodate up to a 3" x 12" reflective sheet on both sides.

Item 666 - Reflectorized Pavement Markings

Mark the location of standard pavement markings, including barrier lines, no passing zones, gores, and transitions adjusting to meet latest standards or as directed by the Engineer.

For seal coated surfaces, leave the final course in place for three days and broom the roadway directly ahead of the striping machine prior to placing standard pavement markings.

After completion of all work and removal of the barricades, time charges will be suspended. The performance period for the project will not begin until all the striping has been completed. Final acceptance will not be granted until the performance period for pavement markings is complete. If replacement markings are needed, traffic control for moving operations will be required. No payment will be made for traffic control during replacement striping work. All traffic control work shall be considered subsidiary to the project’s replacement striping work.

The yellow or white long-line striping for re-striping operations will not lag one another by more than four (4) working days. The performance period for a roadway will not begin for a section of roadway or a project until all required striping for that section or project has been completed.

Provide a schedule and notify the County, Engineer, and Inspector a minimum of 3 days prior to any striping operation. If not notified, the time frame for testing and meeting the Retroreflectivity requirements in article 4.4 will start the day the County, Engineer, and Inspector are made aware of that the markings have been applied.

Item 668 - Prefabricated Pavement Markings

Reference the “Standard Highway Sign Designs for Texas” manual for dimensions to words and symbols.

Manufacturer’s sealer is subsidiary to this item. Surface preparation is paid for separately under Item 678.

Item 677 - Eliminating Existing Pavement Markings and Markers

Eliminate existing pavement markings on asphalt surfaces by the Burn, Blasting, or Mechanical Methods at the project limits that get the work zone seal coat and as directed. Otherwise, use the Surface Treatment Method.

Eliminate existing pavement markings on concrete surfaces by the Water Blasting Method.

Payment for covering a solid yellow line with a broken yellow line next to it, parallel to the centerline of the highway, will be by the linear foot. This payment will be made only once for two stripes side-by-side.

Item 678 - Pavement Surface Preparation for Markings

Use water blasting for concrete surfaces.

Item 685 – Roadside Flashing Beacon Assemblies

Provide screw-in foundations.

Provide a schedule and notify the Engineer and County a minimum of 3 days prior to any flashing beacon installation.

Item 688 – Pedestrian Detectors and Vehicle Loop Detectors

Provide push buttons for pedestrian actuation meeting current ADA requirements.

Item 730 - Roadside Mowing

Mow full-width from pavement edge to Right-of-Way line 2 times. The Engineer shall dictate the times to mow and the areas in the project to mow.

Each mowing cycle is for the entire project and is approximately 30 acres.

Notify the Engineer by 9:00 am each day for work completed the previous day, including hand trimming and cleanup. The Engineer will then inspect the section(s) of roadway for acceptance, not more than two (2) working days after notification.

Truck mounted attenuators shall be used while mowing.

Item 734 – Litter Removal

Perform litter removal prior to mowing and as directed by the Engineer.

County: Lubbock **Control:** 0905-06-115

Highway: CS Sheet 16K

Items 3076 & 3080 – Hot-Mix Asphalt Pavement

PG 70-28 asphalt is required the dense graded hot-mix asphalt.

Provide a summary spreadsheet for each lot in accordance with Article 520.2 of the Standard Specifications.

Design the mixture with a Superpave Gyratory Compactor (SGC).

Aggregate will be subjected to five cycles of the magnesium sulfate soundness test in accordance with Test Method TEX-411-A. The loss shall not be greater than **20** percent.

The mix will be evaluated for stripping through the boil and hamburg wheel tests. If it is determined to be stripping then 1% lime, liquid anti-strip or a warm mix additive proven to prevent stripping will be required.

Schedule the placement width for the final hotmix surface in such a manner that all joints will coincide with proposed lane lines (+/- 6 inches).

Provide emulsified trackless asphalt for tack coat at a rate of 0.10-0.14 gal/sy.

The Contractor will be required to tack 100% of the surfaces prior to the subsequent lift including all vertical joints.

Use a self-propelled, wheel-mounted material transfer vehicle (MTV) capable of receiving hot mix from the haul trucks separate from the paver on this project or provide the PaveIR. Minimum requirements for the MTV are a storage capacity of approximately 25 tons, a pivoting discharge conveyor, a means of completely remixing the ACP prior to placement, and a paver hopper equipped with a separate surge storage insert with a minimum capacity of approximately 20 tons.

Provide straight edges including the outside edge. Any edges not conforming to the typical sections will be cut and removed at the Contractor's expense.

There are paving widths less than 10 ft wide on this project.

Do not pave when temperatures get below 32 degrees F in a 12-hour period.

No substitute PG grade binders will be allowed.

Provide a square edge before laying the adjacent lane of hotmix as directed by the Engineer.

Do not place hotmix if the sustained wind speed gets to over 25 miles per hour.

Incentive bonus is not applicable for this project. Max pay factor shall be 1.0 for placement and production. Penalties are applicable as described within TxDOT specifications.

Item 3076 – Dense-Graded Hot-Mix Asphalt

Asphalt stabilized base will not be allowed as RAP.

Fractionate the RAP if used in the mixture design.

Post-consumer RAS will not be allowed.

The mix will be evaluated for stripping through the boil and hamburg wheel tests. If it is determined to be stripping then 1% lime, liquid anti-strip or a warm mix additive proven to prevent stripping will be required.

No exempt production on driving lanes and shoulder.

Confirm boil test.

The TY B hotmix is considered a surface layer and is subject to the Minimum Pavement Surface Temperature requirements in Tables 14A and 14B.

Incentive bonus is not applicable for this project. Max pay factor shall be 1.0 for placement and production. Penalties are applicable as described within TxDOT specifications.

Item 6307 – Temporary Speed Monitoring System

Provide 1 speed monitoring trailer for this project.

Utilize the speed monitoring trailer on the project for the duration of this project as directed for the protection of the workers.

Change locations of speed monitoring trailer on a regular basis to improve driver attention.

Item 1020-1 – Traffic Control

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

The contractor shall coordinate with the adjacent projects along the corridor and maintain safety and traffic control standards in accordance with the latest version of the TMUTCD. Modifications to traffic control that result from coordination with the adjacent projects must be approved by the Engineer and are considered subsidiary.

County: Lubbock **Control:** 0905-06-115

Highway: CS Sheet 16L

Additional signs, striping, barricades, and message boards, as directed by the Engineer, shall be considered subsidiary to Item 1020-1.

Provide flashing portable arrow panels for all lane closures.
Wash the channelizing devices and barricades following each rainfall or snowfall event and at times deemed necessary by the Engineer.

To ensure the safety and convenience of traffic, flaggers may be required when construction machinery is being operated along, across, or adjacent to lanes carrying traffic. If considered necessary by the Engineer, supplemental signs and barricades may be required.

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

Provide heavy duty "green" springs for dual chevrons on projects requiring flexible support systems.

Traffic Control is a plan quantity item. If time is suspended, no additional compensation will be made.

Traffic switches will not be permitted on Fridays or any working day preceding a holiday unless authorized by the Engineer.

Contractor shall advertise new traffic pattern at least 7 days prior to switching traffic.

Cones or chevrons may be used in lieu of vertical panels at the discretion of the Engineer. Cones cannot be used to separate opposing traffic.

Construct temporary ramps to maintain access to driveways and intersecting streets as directed by the Engineer. Temporary ramp construction is subsidiary to Item 1020-1.

The Contractor shall bid the traffic control plan shown in the plans. Any proposed alterations to the TCP (combining work areas / phasing / etc.) shall be submitted to the Engineer at least 10 days prior to anticipated changes.

Even when not explicitly shown in the project TCP, vertical panels shall be used with an opposing lane divider every 5th panel in accordance with BC(9) for all opposing traffic conditions without a positive barrier.

Square tubing sign supports may be used for temporary construction signs. Aluminum and wood signs may be mounted if the vertical supports are embedded into the ground. Square tubing supports on skids which are typically held in place with sandbags can only support signs made of light weight flutted plastic.

Any trench or drop off over 2” and less than 10” will require a safety slope of at least 1:1 if drop off is going to be existing for more than 2 nights. For drop-offs greater than 10”, a safety slope

will be required at the end of operations for that day. This safety slope may be constructed with RAP, embankment, or other material approved by the Engineer. The placement, maintenance, and removal of this safety slope is the responsibility of the Contractor and will be considered subsidiary to the various bid items.

Provide an all-weather surface for all sections of the roadway prior to time suspension as directed by the Engineer. The all-weather surface shall be the original undisturbed asphalt pavement or a one course surface treatment on the constructed roadbed as shown in the typical sections.

Correct all noted deficiencies within 7 calendar days, otherwise, cease all operations until the noted deficiencies are corrected.

Stockpiles that meet the barricade requirements as shown on the BC(10) Standard are required to be erected at the time of material delivery in the Right-of-Way and maintained as long as the stockpile exists. Payment for Material-on-Hand will be withheld from the estimate for inadequate barricades or the failure to maintain barricades on a per stockpile basis as determined by the Engineer.

Like new traffic control devices will be required at the initial setup for all projects or as approved by the Engineer.

Provide flags and a CW8-15P “MOTORCYCLE WARNING” plaque on all CW20-1D “ROAD WORK AHEAD” signs except on side roads.

Use only the work zone speed limit and TCP signs that are relevant to the active work area and as directed. Reset signs for subsequent work phases as work progresses and approved by the Engineer. Reset normal speed limit signs at the ends of work zones.

Project limit signage is required on both sides of the roadway on a divided highway.

Stop adjacent traffic using TCP(1-2) during the application of asphalts unless otherwise authorized by the Engineer.

Provide pilot cars as directed by the Engineer.

“No Passing” and “Pass With Care” signs shall be erected at the beginning and the end of each no passing zone until the permanent markings are in place.

All bid items and work requiring traffic control is the responsibility of the contractor, even when not explicitly detailed in the plans. Consider this work subsidiary to Item 1020-1.

Use short-term removable striping as directed by the Engineer.

Water base paint may be used for all non-removable striping if authorized by the Engineer.

County: Lubbock **Control:** 0905-06-115

Highway: CS Sheet 16M

The deviation rate in alignment shall not exceed one inch per 200 feet of roadway. The maximum deviation shall not exceed 2 inches, nor shall any deviation be abrupt. Striping not in conformance shall be removed and replaced at the Contractor's expense.

All removable work zone pavement markings placed on CRCP shall consist of ceramic buttons and RPMs as shown on standard sheet BC(11). These shall be applied with a thermoplastic adhesive, unless otherwise directed by the Engineer.

No guide markers will be placed on a finished surface unless they fall on a proposed lane line. Stick-down markings will be removed by the Contractor prior to final marking.

Remove tabs at the same time as the RPM placement. Cut off tabs or remove by a method acceptable to the Engineer.

Type I markings must be at least one twenty-fifth (1/25) of an inch thick.

Remove ceramic buttons, RPMs, and Adhesives as directed by the Engineer. Payment for this work is subsidiary to Item 1020-1.

Use thermoplastic adhesive to glue down work zone buttons and RPMs. Bituminous adhesive will not be allowed.

Dispose of the backing from tabs in an appropriate manner.

Any roadway opened to traffic shall be striped within 14 days.

TMAs and Portable Change Message Boards will not be used as Arrow Boards.

When the roadway is open to traffic and final striping is completed, any subsequent work shall be done under daytime traffic control.

The contractor is to respond within 30 minutes to any traffic control maintenance after wind events, storms, etc., and as directed by the Engineer.

Provide messages as directed by the Engineer.

Provide 4 solar powered changeable message signs for the duration of this project. 2 boards at the east and west limits and 2 boards used for traffic shifts at different locations throughout the duration of the project. Contractor shall provide message boards and retain after project completion.

Inform the public 2 weeks before construction begins and three days prior to major traffic shifts.

Sheet 16N

Provide 3 TMAs for stationary use for the duration of the project. Stationary TMAs will be used during the various phases of work required for this project. Consider this work subsidiary to Item 1020-1.

Provide 2 TMAs for mobile use. Mobile TMAs will be used for moving operations such as striping and RPM placement. Consider this work subsidiary to Item 1020-1.

TMAs are not to be used as arrow boards.

No.	Description	By	Date
1	Addedum No. 2	KB	10/22/2025

ESTIMATE SUMMARY

Project:
CSJ: 0905-06-115
Highway: CS
County: LUBBOCK

EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	ALT	ITEM-CODE ITEM NO	DESC CODE	SP NO	DESCRIPTION	UNIT	TOTAL EST.		FINAL
						123.000			0100	6002		PREPARING ROW	STA	123.000		
						4.000			0100	6006		PREP ROW (TREE)(LESS THAN 24" DIA)	EA	4.000		
						6.000			0100	6007		PREP ROW (TREE)(GREATER THAN 24" DIA)	EA	6.000		
						998.000			0104	6001		REMOVING CONC (PAV)	SY	998.000		
						13.000			0104	6009		REMOVING CONC (RIPRAP)	SY	13.000		
						4322.000			0104	6017		REMOVING CONC (DRIVEWAYS)	SY	4322.000		
						218.000			0104	6022		REMOVING CONC (CURB AND GUTTER)	LF	218.000		
						75357.000			0110	6001		EXCAVATION (ROADWAY)	CY	81054.000		
						5697.000			0110	6002		EXCAVATION (CHANNEL)	CY	5697.000		
						375.000			0132	6006		EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	375.000		
						50245.000			0160	6003		FURNISHING AND PLACING TOPSOIL (4")	SY	50245.000		
						50245.000			0164	6021		CELL FBR MLCH SEED(PERM)(RURAL)(SANDY)	SY	50245.000		
						25122.500			0164	6029		CELL FBR MLCH SEED(TEMP)(WARM)	SY	25122.500		
						25122.500			0164	6031		CELL FBR MLCH SEED(TEMP)(COOL)	SY	25122.500		
						3.280			0164	6034		DRILL SEEDING (PERM) (RURAL) (SANDY)	AC	3.280		
						10.381			0166	6001		FERTILIZER	AC	10.381		
						845.623			0168	6001		VEGETATIVE WATERING	MG	845.623		
						11410.000			0169	6007		SOIL RETENTION BLANKETS (CL 2) (TY G)	SY	11410.000		
						85.000			0216	6001		PROOF ROLLING	HR	85.000		
						18214.000			0247	6204		FL BS (CMP IN PLC)(TY E GR 4)(8")	SY	82791.000		
						73.921			0275	6001		CEMENT	TON	73.921		
						8761.000			0275	6002		CEMENT TREAT (EXIST MATL) (6")	SY	8761.000		
						14649.000			0310	6009		PRIME COAT (MC-30)	GAL	14649.000		
						10986.750			0315	6004		FOG SEAL (CSS-1H)	GAL	10986.750		
						1300.000			0351	6013		FLEXIBLE PAVEMENT STRUCTURE REPAIR(4")	SY	1300.000		
						35244.000			0354	6005		PLAN & TEXT ASPH CONC PAV(2" TO 4")	SY	35244.000		
						6726.000			0360	6002		CONC PVMT (CONT REINF - CRCP) (8")	SY	6726.000		
						148.000			0360	6080		CONC PVMT (CRCP) (TRANSITION SLAB)	SY	148.000		
						36.000			0416	6002		DRILL SHAFT (24 IN)	LF	36.000		
						976.000			0432	6001		RIPRAP (CONC)(4 IN)	CY	976.000		
						47.000			0432	6002		RIPRAP (CONC)(5 IN)	CY	47.000		
						32.000			0432	6022		RIPRAP (STONE COMMON)(DRY)(6 IN)	CY	32.000		
						20.000			0432	6055		RIPRAP (STONE TY F) (DRY) (18")	CY	20.000		
						200.000			0460	6002		CMP (GAL STL 18 IN)	LF	200.000		
						70.000			0460	6003		CMP (GAL STL 24 IN)	LF	70.000		
						1332.000			0462	6099		CONC BOX CULV (6 FT X 2 FT)	LF	1332.000		
						1.000			0465	6012		JCTBOX(COMPL)(PJB)(8FTX8FT)	EA	1.000		
						1.000			0465	6128		INLET (COMPL)(PSL)(FG)(4FTX4FT-4FTX4FT)	EA	1.000		
						2.000			0467	6207		SET (TY I)(S= 6 FT)(HW= 3 FT)(6:1) (C)	EA	2.000		
						28.000			0467	6208		SET (TY I)(S= 6 FT)(HW= 3 FT)(6:1) (P)	EA	28.000		
						4.000			0467	6346		SET (TY II) (18 IN) (CMP) (4: 1) (P)	EA	4.000		
						4.000			0467	6377		SET (TY II) (24 IN) (CMP) (4: 1) (C)	EA	4.000		
						16.000			0480	6001		CLEAN EXIST CULVERTS	EA	16.000		
						10.000			0496	6016		REMOV STR (PIPE)	EA	10.000		
						80.000			0506	6002		ROCK FILTER DAMS (INSTALL) (TY 2)	LF	80.000		
						80.000			0506	6011		ROCK FILTER DAMS (REMOVE)	LF	80.000		
						500.000			0506	6024		CONSTRUCTION EXITS (REMOVE)	SY	500.000		
						1070.000			0506	6042		BIODEG EROSN CONT LOGS (INSTL) (18")	LF	1070.000		

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No.	Description	By	Date
1	Addendum No. 2	KB	10/22/2025

ESTIMATE SUMMARY

Project:
CSJ: 0905-06-115
Highway: CS
County: LUBBOCK

EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	ALT	ITEM-CODE ITEM NO	ITEM-CODE DESC CODE	SP NO	DESCRIPTION	UNIT	TOTAL EST.		TOTAL FINAL
						10.000		2	0100	6002		PREPARING ROW	STA	10.000		
						8.000		2	0104	6009		REMOVING CONC (RIPRAP)	SY	8.000		
						2247.000		2	0104	6017		REMOVING CONC (DRIVEWAYS)	SY	2247.000		
						8045.000		2	0110	6001		EXCAVATION (ROADWAY)	CY	8045.000		
						1810.000		2	0110	6002		EXCAVATION (CHANNEL)	CY	1810.000		
						127.000		2	0132	6006		EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	127.000		
						7204.000		2	0160	6003		FURNISHING AND PLACING TOPSOIL (4")	SY	7204.000		
						7204.000		2	0164	6021		CELL FBR MLCH SEED(PERM)(RURAL)(SANDY)	SY	7204.000		
						3602.000		2	0164	6029		CELL FBR MLCH SEED(TEMP)(WARM)	SY	3602.000		
						3602.000		2	0164	6031		CELL FBR MLCH SEED(TEMP)(COOL)	SY	3602.000		
						2.250		2	0164	6034		DRILL SEEDING (PERM) (RURAL) (SANDY)	AC	2.250		
						1.488		2	0166	6001		FERTILIZER	AC	1.488		
						121.243		2	0168	6001		VEGETATIVE WATERING	MG	121.243		
						12.000		2	0216	6001		PROOF ROLLING	HR	12.000		
						2569.643		2	0247	6204		FL BS (CMP IN PLC)(TY E GR 4)(8")	SY	11680.000		
						18.550		2	0275	6001		CEMENT	TON	18.550		
						2110.000		2	0275	6002		CEMENT TREAT (EXIST MATL) (6")	SY	2110.000		
						2043.800		2	0310	6009		PRIME COAT (MC-30)	GAL	2043.800		
						1532.850		2	0315	6004		FOG SEAL (CSS-1H)	GAL	1532.850		
						650.000		2	0351	6013		FLEXIBLE PAVEMENT STRUCTURE REPAIR(4")	SY	650.000		
						6229.000		2	0354	6005		PLAN & TEXT ASPH CONC PAV(2" TO 4")	SY	6229.000		
						1690.000		2	0360	6002		CONC PVMT (CONT REINF - CRCP) (8")	SY	1690.000		
						31.000		2	0360	6080		CONC PVMT (CRCP) (TRANSITION SLAB)	SY	31.000		
						22.000		2	0432	6001		RIPRAP (CONC)(4 IN)	CY	22.000		
						63.000		2	0432	6055		RIPRAP (STONE TY F) (DRY) (18")	CY	63.000		
						90.000		2	0464	6017		RC PIPE (CL IV)(18 IN)	LF	90.000		
						8.000		2	0479	6001		ADJUSTING MANHOLES	EA	8.000		
						14.000		2	0496	6016		REMOV STR (PIPE)	EA	14.000		
						411.000		2	0506	6042		BIODEG EROSN CONT LOGS (INSTL) (18")	LF	411.000		
						411.000		2	0506	6043		BIODEG EROSN CONT LOGS (REMOVE)	LF	411.000		
						3396.000		2	0529	6008		CONC CURB & GUTTER (TY II)	LF	3396.000		
						114.000		2	0529	6021		CONC CURB & GUTTER (SLOTTED)	LF	114.000		
						109.000		2	0529	6030		CONC CURB & GUTTER (VALLEY GUTTER)	LF	109.000		
						2106.000		2	0530	6004		DRIVEWAYS (CONC)	SY	2106.000		
						1855.000		2	0531	6001		CONC SIDEWALKS (4")	SY	1855.000		
						2.000		2	0531	6005		CURB RAMPS (TY 2)	EA	2.000		
						59.000		2	0536	6002		CONC MEDIAN	SY	59.000		
						7.000		2	0560	6001		MAILBOX INSTALL-S (TWG-POST) TY 1	EA	7.000		
						4.000		2	0644	6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	4.000		
						532.000		2	0666	6036		REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	532.000		
						118.000		2	0666	6042		REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	118.000		
						200.000		2	0666	6309		RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	200.000		
						780.000		2	0666	6318		RE PM W/RET REQ TY I (Y)6"(BRK)(100MIL)	LF	780.000		
						3116.000		2	0666	6321		RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	3116.000		
						38.000		2	0668	6018		PREFAB PAV MRK TY B (W)(24")(SLD)	LF	38.000		
						31.000		2	0668	6019		PREFAB PAV MRK TY B (W)(ARROW)	EA	31.000		
						313.000		2	0672	6009		REFL PAV MRKR TY II-A-A	EA	313.000		
						529.000		2	0678	6004		PAV SURF PREP FOR MRK (8")	LF	529.000		

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SLIDE ROAD EARTHWORK

End Area Volume Report

Report Created: 11/17/2023
Time: 10:16am

Cross Section Set Name: Slide_100%_EW
Alignment Name: Slide_CL
Input Grid Factor: 1
Note: All units in this report are in feet, square feet and cubic yards unless specified otherwise.

Baseline Station	Station Quantities									Added Quantities						Mass Ordinate
	Cut				Fill					Cut			Fill			
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted		Factor	Volume	Adjusted	Factor	Volume	Adjusted	
205+00.0000																0
205+50.0000	1	47.594	44	44	1	1.28	1	1								43
206+00.0000	1	51.27	92	92	1	0.935	2	2								132
206+50.0000	1	55.937	99	99	1	1.606	2	2								229
207+00.0000	1	53.024	101	101	1	2.817	4	4								326
207+50.0000	1	54.253	99	99	1	4.616	7	7								419
208+00.0000	1	54.195	100	100	1	6.93	11	11								508
208+50.0000	1	72.382	117	117	1	8.758	15	15								611
209+00.0000	1	96.647	157	157	1	8.273	16	16								752
209+50.0000	1	305.182	372	372	1	13.426	20	20								1104
210+00.0000	1	144.126	416	416	1	40.929	50	50								1469
210+50.0000	1	125.511	250	250	1	0	38	38								1681
211+00.0000	1	71.331	182	182	1	0	0	0								1863
211+50.0000	1	84.341	144	144	1	2.663	2	2								2005
212+00.0000	1	73.757	146	146	1	1.847	4	4								2147
212+50.0000	1	66.522	130	130	1	1.052	3	3								2274
213+00.0000	1	62.574	120	120	1	0.63	2	2								2392
213+50.0000	1	57.732	111	111	1	0.475	1	1								2503
214+00.0000	1	53.868	103	103	1	0.211	1	1								2606
214+50.0000	1	47.702	94	94	1	0.219	0	0								2699
215+00.0000	1	0	44	44	1	0	0	0								2743
Grand Total:			2922	2922			179	179								

	CUT	FILL
WOODROW RD	78132	179
SLIDE ROAD	2922	179
WOODROW CHANNEL	5697	
PROJECT TOTAL	81054	358

NOTES:

1. THESE QUANTITIES INCLUDE CHANNEL EXCAVATION. SEE DRAINAGE SUMMARY SHEET FOR INFORMATION ON CHANNEL EXCAVATION.

STATE OF TEXAS
BRENDEN J. BARTELS
149832
LICENSED
PROFESSIONAL ENGINEER
Brendin Bartels 10/22/2025

No.	Description	By	Date
1	Addendum No. 2	KB	10/22/2025

Kimley»Horn F-928

HUGO REED AND ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-760 TEXAS LICENSED SURVEYING FIRM 100676-00

STATE OF TEXAS COUNTY OF LUBBOCK

WOODROW ROAD
FM 1730 TO CR 2100

EARTHWORK CALCULATIONS

SHEET 3 OF 3

DATE: 10/22/2025	CHECKED: PTC	99
DESIGN: BJB	KHA NO:	
DRAWN: BJB	COUNTY NO:	

FILENAME: c:\pw\khl\d0116321\WDR2_ROW_EARTHWORK_03.dgn
PLOTTED: 10/22/2025 3:21:01 PM

SUMMARY OF ROADWAY ITEMS											
	0100 6002 PREPARING ROW	0100 6006 PREP ROW (TREE)(LESS THAN 24" DIA)	0100 6007 PREP ROW (TREE)(GREATER THAN 24" DIA)	0110 6001 EXCAVATION (ROADWAY)	0132 6006 EMBANKMENT (FINAL) (DENS CONT) (TY C)	0247 6041 PROOF ROLLING	0247 6204 FL BS (CMP IN PLC) (TY E GR 4)(8")	0275 6001 CEMENT	0310 6009 CEMENT TREAT (EXIST MATL) (6")	0310 6009 PRIME COAT (MC-30)	0315 6004 FOG SEAL (CSS-1H)
STATIONING	STA	EA	EA	CY	CY	HR	SY	TON	SY	GAL	GAL
BEGIN PROJECT TO STA 1056+00	2										
STA 1056+00 TO STA 1068+00	12	1					11722			2119	1589
STA 1068+00 TO STA 1080+00	12						9385			1680	1260
STA 1080+00 TO STA 1092+00	12						6661	23	2723	1190	893
STA 1092+00 TO STA 1104+00	12	1					9476			1680	1260
STA 1104+00 TO STA 1116+00	12	2	3				5157	51	6038	930	698
STA 1116+00 TO STA 1128+00	12		2				9602			1706	1280
STA 1128+00 TO STA 1140+00	12		1				9481			1680	1260
STA 1140+00 TO STA 1152+00	12						9896			1768	1326
STA 1152+00 TO END PROJECT	11						8256			1482	1111
NORTH FM 1730 (SLIDE RD)	5						1187			216	162
SOUTH FM 1730 (SLIDE RD)	5						1099			198	149
NORTH CR 2000 (QUAKER AVE)	4						869				
PROJECT TOTAL	**123**	**4**	**6**	**81054**	**375**	**85**	**82791**	**74**	**8761**	**14649**	**10987**
CR 2330 QUANTITIES											
CR 2330 STA 700+00 TO STA 708+00	8						1034	18	2080	487	365
CR 2330 STA 708+00 TO END	2						10647	1	30	1557	1168
CR 2330 TOTAL	**10**			**8045**	**127**	**12**	**11680**	**19**	**2110**	**2044**	**1533**

CONTINUED

SUMMARY OF ROADWAY ITEMS								
	0360 6003 FLEXIBLE PAVEMENT STRUCTURE REPAIR(4")	0529 6008 CONC PVMT (CONT REINF CRCP) (8")	0360 6080 CONC PVMT (CRCP) (TRANSITION SLAB)	0432 6022 RIPRAP (STONE COMMON) (DRY)(6 IN)	0529 6008 CONC CURB & GUTTER (TY II)	0529 6012 CONC CURB (SLOTTED)	0536 6002 CONC CURB & GUTTER (SLOTTED)	0536 6002 CONC CURB & GUTTER (VALLEY GUTTER)
STATIONING	SY	SY	SY	CY	LF	LF	LF	LF
BEGIN PROJECT TO STA 1056+00								
STA 1056+00 TO STA 1068+00					1678	224	40	
STA 1068+00 TO STA 1080+00					1823	240	76	
STA 1080+00 TO STA 1092+00		2450	70		1875	34	34	42
STA 1092+00 TO STA 1104+00					1981			
STA 1104+00 TO STA 1116+00		4276	78		2996			
STA 1116+00 TO STA 1128+00					1835			
STA 1128+00 TO STA 1140+00					1517			
STA 1140+00 TO STA 1152+00				8	2156	80	80	38
STA 1152+00 TO END PROJECT				24	2054	40	40	
NORTH FM 1730 (SLIDE RD)								
SOUTH FM 1730 (SLIDE RD)								
NORTH CR 2000 (QUAKER AVE)								
PROJECT TOTAL	**1300**	**6726**	**148**	**32**	**17915**	**618**	**270**	**80**
CR 2330 QUANTITIES								
CR 2330 STA 700+00 TO STA 708+00		1690	31		1756		38	
CR 2330 STA 708+00 TO END					1640		76	109
CR 2330 TOTAL	**650**	**1690**	**31**		**3396**		**114**	**109**

No.	Description	By	Date
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Kimley»Horn F-928

HUGO REED AND ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-760 TEXAS LICENSED SURVEYING FIRM 100676-00

STATE OF TEXAS COUNTY OF LUBBOCK

WOODROW ROAD
FM 1730 TO CR 2100

ROADWAY SUMMARY

SHEET 1 OF 2

DATE: 10/22/2025	CHECKED: PTC	101
DESIGN: BJB	KHA NO:	
DRAWN: BJB	COUNTY NO:	

FILENAME: c:\pw\kh1\d0116321\WDR2_ROW_SUM.dgn
PLOTTED: 10/22/2025 3:31:03 PM

SLIDE ROAD EARTHWORK

End Area Volume Report

Report Created: 11/17/2023
Time: 10:16am

Cross Section Set Name: Slide_100%_EW
Alignment Name: Slide_CL
Input Grid Factor: 1
Note: All units in this report are in feet, square feet and cubic yards unless specified otherwise.

Baseline Station	Station Quantities									Added Quantities						Mass Ordinate
	Cut				Fill					Cut			Fill			
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted		Factor	Volume	Adjusted	Factor	Volume	Adjusted	
205+00.0000																0
205+50.0000	1	47.594	44	44	1	1.28	1	1								43
206+00.0000	1	51.27	92	92	1	0.935	2	2								132
206+50.0000	1	55.937	99	99	1	1.606	2	2								229
207+00.0000	1	53.024	101	101	1	2.817	4	4								326
207+50.0000	1	54.253	99	99	1	4.616	7	7								419
208+00.0000	1	54.195	100	100	1	6.93	11	11								508
208+50.0000	1	72.382	117	117	1	8.758	15	15								611
209+00.0000	1	96.647	157	157	1	8.273	16	16								752
209+50.0000	1	305.182	372	372	1	13.426	20	20								1104
210+00.0000	1	144.126	416	416	1	40.929	50	50								1469
210+50.0000	1	125.511	250	250	1	0	38	38								1681
211+00.0000	1	71.331	182	182	1	0	0	0								1863
211+50.0000	1	84.341	144	144	1	2.663	2	2								2005
212+00.0000	1	73.757	146	146	1	1.847	4	4								2147
212+50.0000	1	66.522	130	130	1	1.052	3	3								2274
213+00.0000	1	62.574	120	120	1	0.63	2	2								2392
213+50.0000	1	57.732	111	111	1	0.475	1	1								2503
214+00.0000	1	53.868	103	103	1	0.211	1	1								2606
214+50.0000	1	47.702	94	94	1	0.219	0	0								2699
215+00.0000	1	0	44	44	1	0	0	0								2743
Grand Total:			2922	2922			179	179								

	CUT	FILL
WOODROW RD	78132	179
SLIDE ROAD	2922	179
WOODROW CHANNEL	5697	
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WOODROW ROAD
FM 1730 TO CR 2100

EARTHWORK CALCULATIONS

SHEET 3 OF 3

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