







TABLE C3: OPINIONS OF PROBABLE CONSTRUCTION COST ESTIMATE FOR ALTERNATIVE 3 CITY OF ANGLETON, TEXAS CHENANGO STREET DRAINAGE IMPROVEMENTS

ITEM NO.	DESCRIPTION OF ITEM AND UNIT PRICES (IN WORDS)	EST. QUAN	UNIT		UNIT PRICE		AMOUNT
	GENERAL ITEMS						
	Traffic Control, including Flagmen, Signs, Barrels, Barricades, Arrow Boards, Maintaining All						
1	Weather Access to Traffic, Temporary Transitions from Proposed Pavement to Existing Pavement, Relocating Existing Mailboxes and Traffic Signs, and Temporary Mailboxes						
	complete in place, the sum of:	1	LS	\$	150,000.00	¢	150.000.00
2	Easement acquisition from private property	10.3	AC.	\$	83,250.00		83,250.00
_	TOTAL GENERAL ITEMS			т		\$	233,250.00
							· · · ·
	PAVING ITEMS						
3	Remove and dispose of existing concrete pavement with asphalt overlay, base material, and						
	curbs, complete in place, the sum of:	25900	S.Y.	\$	10.00		259,000.00
4	7" reinforced concrete pavement, complete in place, the sum of:	25900	S.Y.	\$	66.00		1,709,400.00
	8" lime stablized subgrade, complete in place, the sum of: Lime for stablized subgrade (7% by dry weight), complete in place, the sum of:	28210 750	S.Y. TON	\$ \$	5.00 200.00		<u>141,050.00</u> 150.000.00
	Remove and replace with 6" concrete driveway, complete in place, the sum of:	1500	S.Y.	\$	80.00		120,000.00
8	Proposed curb ramp, complete in place, the sum of:	2600	S.F.	\$	30.00		78,000.00
	Remove existing curb ramp, complete in place, the sum of:	2600	S.F.	\$	10.00		26,000.00
	Proposed concrete walkway/sidewalk, all widths (4" thick), complete in place, the sum of:	17100 17100	S.F. S.F.	\$ \$	7.00 3.00		<u>119,700.00</u> 51,300.00
11 12	Remove existing walkway/sidewalk, all widths, complete in place, the sum of: Standard 6" curb, complete in place, the sum of:	13270	LF	э \$	5.00		66,350.00
	Standard pavement header without undercut, including expansion joint per City Details,	10270	E .1.	Ψ	0.00	Ψ	
13	complete in place, the sum of:	1200	L.F.	\$	30.00	\$	36,000.00
	TOTAL PAVING ITEMS					\$	2,756,800.00
	DRAINAGE ITEMS						
14	Remove existing storm sewer pipe or culvert, all sizes, complete in place, the sum of:	5100	L.F.	\$	40.00	\$	204,000.00
15	Install brick plug existing or proposed storm sewer, per detail, all sizes, including mortar and	2	F A	¢	500.00	¢	1 000 00
16	grout, complete in place, the sum of: Remove existing inlet, all types, complete in place, the sum of:	40	EA. EA.	\$ \$	500.00 790.00		<u>1,000.00</u> 31,600.00
10	Remove existing manhole or junction box, all types, complete in place, the sum of:	7	EA.	\$	850.00		5,950.00
18	Swale and/or ditch regrading, including cut and fill as required to provide positive drainage per						· · · · ·
10	plans, complete in place, the sum of:	150	L.F.	\$	15.00	\$	2,250.00
19	Furnish and install 24-in RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all	540	L.F.	\$	115.00	\$	62 100 00
	depths, cement stablized sand bedding and backfill, complete in place, the sum of: Furnish and install 36-in RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all	540		φ	115.00	φ	62,100.00
20		70	L.F.	\$	165.00	\$	11,550.00
21	depths, cement stablized sand bedding and backfill, complete in place, the sum of: Furnish and install 48-in RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all						
	depths, cement stablized sand bedding and backfill, complete in place, the sum of:	100	L.F.	\$	240.00	\$	24,000.00
22	Furnish and install 54-in RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all	100		¢	000.00	¢	24 200 00
	depths, cement stablized sand bedding and backfill, complete in place, the sum of: Furnish and install 4'x4' precast reinforced box culvert, all depths, cement stablized sand	120	L.F.	\$	260.00	\$	31,200.00
23	bedding and backfill, complete in place, the sum of:	1870	L.F.	\$	225.00	\$	420,750.00
24	Furnish and install 5'x3' precast reinforced box culvert, all depths, cement stablized sand			-		Ŧ	
24	bedding and backfill, complete in place, the sum of:	70	L.F.	\$	225.00	\$	15,750.00
25	Furnish and install 5 x4' precast reinforced box culvert, all depths, cement stablized sand	700		^	050.00	^	407 500 00
	bedding and backfill, complete in place, the sum of: Furnish and install 5'x6' precast reinforced box culvert, all depths, cement stablized sand	790	L.F.	\$	250.00	\$	197,500.00
26	bedding and backfill, complete in place, the sum of:	320	L.F.	\$	300.00	\$	96,000.00
07	Furnish and install 8'x4" precast reinforced box culvert, all depths, cement stablized sand			-		Ŧ	
27	bedding and backfill, complete in place, the sum of:	5020	L.F.	\$	665.00		3,338,300.00
28	Furnish and install storm sewer inlet, complete in place, the sum of:	54	EA.	\$	3,400.00		183,600.00
29 30	Furnish and install manhole, all depths, complete in place, the sum of: Manway on box culvert, complete in place, the sum of:	2 11	EA. EA.	\$	5,000.00 2,000.00		10,000.00 22,000.00
31	Furnish and install 6'x6' junction box, all depths, complete in place, the sum of:	1	EA.	\$	20,000.00		20,000.00
	Furnish and install 9'x9' junction box, all depths, complete in place, the sum of:	4	EA.	\$	37,000.00		148,000.00
	Furnish and install 10'x10' junction box, all depths, complete in place, the sum of:	4	EA.	\$	45,000.00		180,000.00
34	Furnish and install 12'x8' junction box, all depths, complete in place, the sum of:	5	EA.	\$	50,000.00	\$	250,000.00
35	Furnish and install 6'x6' utility conflict box for utility crossing, all depths, complete in place, the sum of:	1	EA.	\$	20,000.00	\$	20,000.00
	Furnish and install 9x5' utility conflict box for utility crossing, all depths, complete in place, the	1	LA.	Ψ	20,000.00	Ψ	20,000.00
36	sum of:	1	EA.	\$	36,000.00	\$	36,000.00
37	Furnish and install 12'x5' utility conflict box for utility crossing, all depths, complete in place, the						
	sum of:	14	EA.	\$	47,000.00		658,000.00
38 39	Trench Safety for storm sewer, all depths, complete in place, the sum of:	8900 10.3	L.F. AC	\$ \$	<u>1.00</u> 18,000.00		<u>8,900.00</u> 185,400.00
39 40	Clearing of proposed easements, complete in place, the sum of: Detention pond excavation, complete in place, the sum of:	10.3	C Y	\$ \$	18,000.00		185,400.00
40	Concrete headwall on intake structure at detention pond, complete in place, the sum of:	10700	EA.	\$	25,000.00		25,000.00
42	Backslope swales, complete in place, the sum of:	2510	L.F.	\$	15.00		37,650.00
43	Backslope interceptor structure, including pipe, bedding and backfill, complete in place, the				6 000 c	^	
44	sum of: 5" thick reinforced concrete pilot channel, including toe wall, complete in place, the sum of:	4 1260	EA. S.Y.	\$ \$	<u>9,000.00</u> 100.00		<u>36,000.00</u> 126,000.00
	5" thick reinforced concrete pliot channel, including toe wall, complete in place, the sum of: 5" thick reinforced concrete slope protection at pipe outfall, including toe wall, complete in	1200	3.1.	φ	100.00	φ	120,000.00
45	place, the sum of:	1	LS	\$	5,000.00	\$	5,000.00
46	30' wide spillway at detention pond, complete in place, the sum of:	1	EA.	\$	15,000.00	\$	15,000.00
47	Hydromulch in detention pond, complete in place, the sum of:	10.3	AC.	\$	2,300.00		23,690.00
	TOTAL DRAINAGE ITEMS					\$	6,592,690.00
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	UTILITY ITEMS						
48	Furnish and install 12-in PVC C-900 DR18 water line, all fittings, by auger construction as	20	1.5	\$	125 00	¢	2 500 00
	shown on plans, complete in place, the sum of: Furnish and install 8-in PVC C-900 DR18 water line, all fittings, by auger construction as shown	20	L.F.	φ	125.00	φ	2,500.00
49	on plans, complete in place, the sum of:	140	L.F.	\$	80.00	\$	11,200.00
	and the second			-	00.00		,
50	Furnish and install 4-in PVC C-900 DR18 water line, all fittings, by auger construction as			\$			

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ITEM	DESCRIPTION OF ITEM	EST.	1	1	UNIT	1	1
NO.	AND UNIT PRICES (IN WORDS)	QUAN.	UNIT		PRICE		AMOUNT
51	12-inch diameter wet connection, complete in place, the sum of:	2	EA.	\$	2,500.00	\$	5,000.00
52	8-inch diameter wet connection, complete in place, the sum of:	14	EA.	\$	2,000.00		28,000.00
53	4-inch diameter wet connection, complete in place, the sum of:	8	EA.	\$	800.00		6,400.00
54	12-inch cut, plug & abandon, complete in place, the sum of:	2	EA.	\$	800.00	\$	1,600.00
55	8-inch cut, plug & abandon, complete in place, the sum of:	14	EA.	\$	700.00		9,800.00
56	4-inch cut, plug & abandon, complete in place, the sum of:	8	EA.	\$	350.00		2,800.00
57	Trench Safety for water line, all depths, complete in place, the sum of:	240	L.F.	\$	1.00	\$	240.00
58	Remove and replace 10" sanitary sewer with PVC (SDR 26 Class 160), including full circle single clamp couplings, bedding, backfill and cleanout where applicable, all depths, complete in						
56	place, the sum of:	80	L.F.	\$	115.00	\$	9,200.00
	Remove and replace 8" sanitary sewer with PVC (SDR 26 Class 160), including full circle	00	L.I .	ψ	113.00	Ψ	9,200.00
59	single clamp couplings, bedding, backfill and cleanout where applicable, all depths, complete in						
	place, the sum of:	160	L.F.	\$	105.00	\$	16,800.00
	Remove and replace 6" sanitary sewer with PVC (SDR 26 Class 160), including full circle						
60	single clamp couplings, bedding, backfill and cleanout where applicable, all depths, complete in						
	place, the sum of:	40	L.F.	\$	100.00		4,000.00
61	18" steel casing on 10" sanitary sewer, all depths, complete in place, the sum of:	80	L.F.	\$	275.00		22,000.00
62 63	16" steel casing on 8" sanitary sewer, all depths, complete in place, the sum of:	160 40	L F L F	\$	225.00 200.00		36,000.00 8,000.00
64	14" steel casing on 6" sanitary sewer, all depths, complete in place, the sum of: Trench Safety for sanitary sewer, all depths, complete in place, the sum of:	280	L.F.	э \$	1.00		280.00
04	TOTAL UTILITY ITEMS	200	L.I .	ψ	1.00	\$	166,620.00
	TOTAL OTILITT TEMS					Ψ	100,020.00
	TREE PROTECTION ITEMS						
	Tree removal, clearance pruning, tree protection fencing, root pruning trench, zero curb						
65	cutback, and checkerplates, complete in place, the sum of:	1	LS	\$	35,000.00	\$	35,000.00
	TOTAL TREE PROTECTION ITEMS	•		Ψ	00,000.00	\$	35,000.00
						Ψ	00,000100
	BID SUMMARY						
	GENERAL ITEMS					\$	233,250.00
						э \$	2,756,800.00
	PAVING ITEMS		-			э \$	6,592,690.00
			-			ծ \$	166,620.00
			-			ծ \$	
	TREE PROTECTION ITEMS						35,000.00
	TOTAL BASE BID AMOUNT					\$	9,784,360.00
						¢	0.005.000.00
	30% CONTINGENCY					\$	2,935,308.00
						*	40 740 000 00
	TOTAL OPINION OF PROBABLE CONSTRUCTION COST ESTIMATE					\$	12,719,668.00
	SERVICE FEE						
	GEOTECHNICAL					\$	40,500.00
	URBAN FORESTRY					\$	15,000.00
	ENVIRONMENTAL					\$	60,000.00
	TRAFFIC CONTROL					\$	40,000.00
	STORM WATER POLLUTION PROTECTION PLAN					\$	15,000.00
	TOPOGRAPHIC SURVEY					\$	87,400.00
	METES & BOUNDS SURVEY					\$	15,000.00
	SUE SERVICES					\$	15,000.00
	TXDOT COORDINATION		1			\$	20,000.00
	DESIGN PHASE		1	1		\$	828,800.00
	BID PHASE		1			\$	8,000.00
<u> </u>	CONSTRUCTION ADMINISTRATION		1			\$	236,300.00
<u> </u>	CONSTRUCTION OBSERVATION (HALF TIME)		1	1		\$	240,400.00
<u> </u>			1			۲	2+0,+00.00
<u> </u>	TOTAL PROJECT COST ESTIMATE					\$	14,341,068.00
L			1	1		Ψ	17,071,000.00

Any opinion of construction costs prepared by HDR is supplied for the general guidance of the Client only. Since HDR has no control over competitive bidding or market conditions, HDR cannot guarantee the accuracy of such opinions as compared to contract bids or actual costs to Client.