

PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST

Priority 2: Kingwood Six Lanes (US 59 to Woodland Hills)

Item No.	Spec. Ref.	Item Description	Unit Measure	Unit Quantity	Unit Price (\$)	Total Amount (\$)
GENERAL CONSTRUCTION ITEMS						
1	01502	Mobilization	LS	1	\$838,130.24	\$838,130.24
2	01555	Traffic Control and Regulation	LS	1	\$400,000.00	\$400,000.00
3	01555	Flagmen	LS	1	\$150,000.00	\$150,000.00
4	01555	(Install) Low Profile Concrete Barriers	LF	1,200	\$53.00	\$63,600.00
5	01555	(Relocate) Low Profile Concrete Barriers	LF	1,200	\$5.25	\$6,300.00
6	01555	(Remove) Low Profile Concrete Barriers	LF	1,200	\$8.25	\$9,900.00
7	01570	Implementation and Maintenance of Stormwater Pollution Prevention Plan	LS	1	\$80,000.00	\$80,000.00
8	01570	Inlet Protection Barrier	EA	65	\$5.00	\$325.00
9	01575	Stabilized Construction Entrance/Exit	EA	4	\$2,500.00	\$10,000.00
10	01578	Ground Water Control for Open Cut Construction	LF	14,114	\$20.00	\$282,280.00
13	02221	Remove and Relocate traffic signs, roadway signs	EA	60	\$130.00	\$7,800.00
14	02260	Trench Safety System for trench excavations	LF	34,977	\$0.50	\$17,488.50
15	02893	Project Identification Signs	EA	4	\$750.00	\$3,000.00
16	02767	Rail Road Cross marking include stop lines	EA	2	\$370.00	\$740.00
Sub-Total GENERAL CONSTRUCTION ITEMS						\$1,869,563.74
PAVING ITEMS						
17	02221	Remove/Dispose Reinforced Concrete Surface/ with or without Base	SY	66,667	\$4.00	\$266,666.67
18	02752S	Saw Cutting	LF	24,280	\$6.00	\$145,680.00
19	02315	Roadway Excavation with or without subgrade	CY	4,000	\$5.00	\$20,000.00
20	02336	Lime Stabilized Subgrade 8-inch thick	SY	101,333	\$3.00	\$304,000.00
21	02336	6% Lime Treatment for Stabilized Subgrade (Dry weight) (36-lbs/SY/per 8-inch depth)	TON	1,963	\$120.00	\$235,604.16
22	02751	Reinforced Concrete Pavement 10-inch thick	SY	90,667	\$80.00	\$7,253,333.33
23	TxDOT SS3230	Fast Track Reinforced Concrete Pavement 13-inch thick	SY	12,000	\$110.00	\$1,320,000.00
24	02752	Street Pavment Expansion Joint with Load Transfer Device	LF	9,900	\$6.00	\$59,400.00
25	02752	Horizontal 24" Dowels	EA	608	\$3.50	\$2,126.25
26	02771	Concrete Rail Road Header	LF	220	\$20.00	\$4,400.00
27	02931	Traffic Signals (per intersection)	EA	9	\$200,000.00	\$1,800,000.00
28	02771	6-Inch Concrete Curb	LF	48,000	\$5.00	\$240,000.00
Sub-Total PAVING ITEMS						\$11,651,210.41
STORM SEWER ITEMS						
29	02222	Remove/Dispose Storm Pipe 15-inch dia	LF	140	\$8.00	\$1,120.00
30	02222	Remove/Dispose Storm Pipe 18-inch dia	LF	579	\$8.00	\$4,632.00
31	02222	Remove/Dispose Storm Pipe 24-inch dia	LF	6,592	\$9.00	\$59,328.00
29	02222	Remove/Dispose Storm Pipe 30-inch dia	LF	1,754	\$9.00	\$15,786.00
30	02222	Remove/Dispose Storm Pipe 36-inch dia	LF	1,168	\$9.00	\$10,512.00
31	02222	Remove/Dispose Storm Pipe 42-inch dia	LF	743	\$15.00	\$11,145.00
30	02222	Remove/Dispose Storm Pipe 48-inch dia	LF	767	\$15.00	\$11,505.00
31	02222	Remove/Dispose Storm Pipe 54-inch dia	LF	1,465	\$15.00	\$21,975.00
32	02222	Remove/Dispose Storm Pipe 60-inch dia	LF	776	\$20.00	\$15,520.00
32	02222	Remove/Dispose Manholes all sizes/depth	EA	65	\$400.00	\$26,000.00
33	02222	Remove/Dispose Inlets all sizes/depth	EA	65	\$300.00	\$19,500.00
34	02631	15-Inch RCP Storm Sewers by Open-Cut, All Depths, Complete in Place	LF	140	\$60.00	\$8,400.00
35	02631	18-Inch RCP Storm Sewers by Open-Cut, All Depths, Complete in Place	LF	579	\$91.00	\$52,689.00
36	02631	24-Inch RCP Storm Sewers by Open-Cut, All Depths, Complete in Place	LF	6,592	\$118.00	\$777,856.00
37	02631	30-Inch RCP Storm Sewers by Open-Cut, All Depths, Complete in Place	LF	1,754	\$145.00	\$254,330.00
38	02631	36-Inch RCP Storm Sewers by Open-Cut, All Depths, Complete in Place	LF	1,168	\$155.00	\$181,040.00
39	02631	42-Inch RCP Storm Sewers by Open-Cut, All Depths, Complete in Place	LF	743	\$251.00	\$186,493.00
40	02631	48-Inch RCP Storm Sewers by Open-Cut, All Depths, Complete in Place	LF	767	\$380.00	\$291,460.00
41	02631	54-Inch RCP Storm Sewers by Open-Cut, All Depths, Complete in Place	LF	1,465	\$500.00	\$732,500.00
39	02631	60-Inch RCP Storm Sewers by Open-Cut, All Depths, Complete in Place	LF	776	\$510.00	\$395,760.00
40	1/02082/0	Type C manhole for 42-inch diameter and smaller sewers	EA	41	\$3,400.00	\$139,400.00
41	1/02082/0	Type C manhole for 48-inch to 72-inch diameter sewers	EA	24	\$6,000.00	\$144,000.00

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42	02632 / 02633	Type BB Inlet	EA	50	\$2,700.00	\$135,000.00
43	02632 / 02633	Type B Inlet	EA	9	\$2,700.00	\$24,300.00
43	02632 / 02633	Type A Inlet	EA	4	\$2,700.00	\$10,800.00
44	02632 / 02633	Type F Inlet	EA	1	\$2,700.00	\$2,700.00
45	02632 / 02633	Type H-2 Inlet	EA	1	\$2,700.00	\$2,700.00
Sub-Total STORM SEWER ITEMS						\$3,536,451.00
WATER ITEMS						
46	02221	Remove and Dispose 2-inch Diameter Water Line	LF	446	\$8.00	\$3,568.00
47	02221	Remove and Dispose 8-inch Diameter Water Line	LF	4,520	\$9.00	\$4,014.00
48	02221	Remove and Dispose 12-inch Diameter Water Line	LF	2,191	\$9.00	\$19,719.00
49	02221	Remove and Dispose 16-inch Diameter Water Line	LF	9,386	\$10.00	\$93,860.00
50	02221	Remove and Dispose 24-inch Diameter Water Line	LF	205	\$10.00	\$93,860.00
51	02511	2-inch water line w/ Restrained joints by Open-Cut	LF	446	\$110.00	\$49,060.00
52	02511	8-inch water line w/ Restrained joints by Open-Cut	LF	4,520	\$140.00	\$632,800.00
51	02511	12-inch water line w/ Restrained joints by Open-Cut	LF	2,191	\$210.00	\$460,110.00
52	02511	16-inch water line w/ Restrained joints by Open-Cut	LF	9,386	\$220.00	\$2,064,920.00
53	02511	24-inch water line w/ Restrained joints by Open-Cut	LF	205	\$250.00	\$51,250.00
53	02520	Remove and salvage existing fire hydrant	EA	14	\$700.00	\$9,800.00
54	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box	EA	14	\$5,000.00	\$70,000.00
Sub-Total WATER ITEMS						\$3,552,961.00
SANITARY SEWER ITEMS						
55	02221	Remove Existing Sanitary Sewer Pipe (All Types)	LF	4,180	\$40.00	\$167,200.00
56	02531	8-Inch PVC Sanitary Sewers by Open-Cut, All Depths, Complete in Place	LF	2,260	\$110.00	\$248,600.00
57	02532	10-Inch PVC Sanitary Sewers by Open-Cut, All Depths, Complete in Place	LF	1,920	\$120.00	\$230,400.00
Sub-Total SANITARY SEWER ITEMS						\$646,200.00
STREETSCAPE ITEMS						
58	02035	Tree Protection Fencing	LS	1	\$100,000.00	\$100,000.00
59	02110	Tree removal	LS	1	\$50,000.00	\$50,000.00
60	02110	Tree Mitigation	LS	1	\$375,000.00	\$375,000.00
61	02810	Irrigation Repairs	LS	1	\$10,000.00	\$10,000.00
Sub-Total STREETSCAPE ITEMS						\$535,000.00
Total BASE UNIT PRICE						\$21,791,386.15
EXTRA WORK ITEMS						
62	02318	Excavate Around Obstructions	CY	100	\$10.00	\$1,000.00
63	02318	Extra Hand Excavation	CY	100	\$15.00	\$1,500.00
64	02318	Extra Machine Excavation	CY	100	\$10.00	\$1,000.00
65	02318	Extra Placement of Backfill Material	CY	100	\$15.00	\$1,500.00
66	02318	Extra Placement of Granular Fill	CY	100	\$15.00	\$1,500.00
67	02318	Extra Placement of Select Backfill	CY	100	\$10.00	\$1,000.00
68	02318/ 02321	Extra Cement Stabilized Sand	CY	100	\$25.00	\$2,500.00
69	02501	Extra Water Line Fittings	TON	1	\$1,000.00	\$1,000.00
Sub-Total EXTRA WORK ITEMS						\$11,000.00
CASH ALLOWANCE ITEMS						
70	01110	Street Cut Permit	CA	1	\$7,500.00	\$7,500.00
71	01110	Lane Closure Permit	CA	1	\$6,000.00	\$6,000.00
72	01111	Sidewalk Closure Permit	CA	1	\$1,080.00	\$1,080.00
73	01410/ 01570	TPDES NOI/NOT	CA	1	\$375.00	\$375.00

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74	02775	TDLR TAS Permit - Inspection	CA	1	\$1,050.00	\$1,050.00
75	01110/ TxDOT SS6834	PCMS: Full LED Matrix, 3 Line (8 character per line)	CA	1	\$20,000.00	\$20,000.00
76	01110	Railroad Right of Entry Permit	CA	1	\$800.00	\$800.00
77	01110	Railroad Boring Permits	CA	1	\$20,000.00	\$20,000.00
78	01110	Rail Road Flagman	CA	1	\$90,000.00	\$90,000.00
79	01110	Rail Road Cross Arm Expansion	CA	1	\$500,000.00	\$500,000.00
Sub-Total CASH ALLOWANCE ITEMS						\$646,805.00
Total ITEMS						\$22,449,191.15
CONTINGENCIES					25%	\$5,612,297.79
TOTAL PROJECT CONSTRUCTION COST						\$28,061,488.93