

ENGINEER'S OPINION OF PROBABLE COST							
CLIENT	CITY OF FORNEY						
PROJECT	EXTENSION OF TRAILHOUSE ROAD SOUTH OF EMERSON APTS TO HWY 80						
	ON AND OFFSITE WATER, SEWER, AND STORMSEWER						
DATE	11-Feb-19						
Trailhouse Road - 48 -foot Concrete Pavement w/Curb and Gutter in 84' ROW (west half of road) along Kroger and 37' from south side of Kroger to Hwy 80. Includes on and offsite water, sewer, and stormsewer.							
	ITEM	QUAN	UNITS	UNIT COST,\$	TOTAL COST	12-24-18 TOTAL COST	DIFFERENCE
PAVING							
P1	CLEAR & GRUB ROW (50'x475'+100'x1200')	4	AC	1,800.00	6,300	6,300	0
P2	HAUL FILL DIRT TO SITE	1,600	LOAD	140.00	224,000	224,000	0
P3	FILL (COMPACT AVG 3 FT FILL)	16,000	CY	18.00	288,000	288,000	0
P4	7" 3600 PSI CONC PVMT WITH NO. 4 ON 18" E.W.	6,215	SY	58.00	360,470	359,600	870
P4	6" INTEGRAL CURB	2,610	LF	2.00	5,220	5,750	(530)
P5	6" LIME STABILIZED SUBGRADE	7,130	SY	5.50	39,215	24,955	14,260
P6	HYDRATED LIME (32 LBS/SY)	220	TN	180.00	39,600	25,000	14,600
P7	MEDIAN CONCRETE	1,000	SY	38.00	38,000	35,000	3,000
P10	6' WIDE SIDEWALK	15,400	SF	5.00	77,000	86,250	(9,250)
P11	RAMPS	10	EA	1,500.00	15,000	12,000	3,000
P12	6" TYPE D ASPHALT PAVEMENT	5	SY	30.00	150	150	0
P13	LONGITUDINAL BUTT JOINT	24	LF	10.00	240	240	0
P14	TRAFFIC CONTROL THRU CONSTRUCTION	1	LS	2,500.00	2,500	2,500	0
P15	PAVEMENT MARKINGS	3,000	LF	4.00	12,000	12,000	0
P16	TRAFFIC SIGNS (INSTALL NEW OR RELOCATE EX)	6	EA	500.00	3,000	3,000	0
P17	BONDING & INSURANCE	1	LS	85,000.00	85,000	85,000	0
P18	MOB AND DEMOB	1	LS	70,000.00	70,000	70,000	0
	SUBTOTAL				1,265,695	1,239,745	25,950
DRAINAGE							
Box Culvert Along Hwy 80 & Trailhouse							
D1	6'X4' BOX	675	LF	330.00	222,750.00	342,000	(119,250)
D2	10'X4' BOX	640	LF	650.00	416,000.00	331,500	84,500
D3	HEADWALL FOR BOX CULVERT	1	EA	7,500.00	7,500.00	7,500	0
D4	10'X4' BOX HEADWALL	1	EA	25,000.00	25,000.00	25,000	0
D5	RIPRAP	35	CY	150.00	5,250.00	5,250	0
D6	INLET STRUCTURE	1	EA	6,000.00	6,000.00	6,000	0
D7	CURB INLETS (8')	6	EA	7,200.00	43,200.00	28,800	14,400
D8	CURB INLETS (10')	1	EA	8,700.00	8,700.00	8,700	0
D9	18" RCP	220	LF	95.00	20,900.00	16,625	4,275
D10	ROCK RIP-RAP	50	SY	70.00	3,500.00	3,500	0
D11	GRADE TO DRAIN	1,350	LF	15.00	20,250.00	42,000	(21,750)
D12	DRIVEWAY REPAIRS	2	EA	8,500.00	17,000.00	17,000	0
D13	TRAFFIC CONTROL	1	LS	5,000.00	5,000.00	5,000	0
D14	TRENCH SAFETY	1,315	LF	5.00	6,575.00	8,255	(1,680)
D15	REMOVE CURB & GUTTER	125	LF	8.00	1,000.00	0	1,000
D16	REMOVE CONCRETE PAVEMENT	350	SY	7.00	2,450.00	0	2,450
D17	48" RCP	1,120	LF	210.00	235,200.00	0	235,200
D18	GRATE INLETS	2	EA	3,600.00	7,200.00	0	7,200
D19	JUNCTION BOX (10'X5')	1	EA	14,000.00	14,000.00	0	14,000
D20	JUNCTION BOX (6'X6')	1	EA	9,100.00	9,100.00	0	9,100
D21	JUNCTION BOX (5'X5')	1	EA	7,200.00	7,200.00	0	7,200
	SUBTOTAL				1,083,775	855,930	227,845

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SEWER							
S1	18" SEWER LINE (1,670 PH 1 & 915 PH 2)	2,585	LF	125.00	323,125	375,000	(51,875)
S2	18" SEWER ENCASED IN BORE (PH 2)	300	LF	650.00	195,000	195,000	0
S3	5' Dia MANHOLES WITH LINING (7 PH 1 & 5 PH 2)	12	EA	11,500.00	138,000	138,000	0
S4	ADDITIONAL VERTICAL DEPTH 5' DIAMETER MANHOLES	40	LF	600.00	24,000	24,000	0
S5	CONNECT NEW SEWER TO EXISTING SEWER	2	EA	8,500.00	17,000	17,000	0
S6	CRUSHED ROCK FOR PIPELINE BOTTOM STABILITY	100	CY	42.00	4,200	4,200	0
S7	TRENCH SAFETY	3,000	LF	2.50	7,500	7,500	0
	SUBTOTAL				708,825	760,700	(51,875)
WATER							
W1	8" WATER LINE	1,280	LF	65.00	83,200	97,500	(14,300)
W2	12" WATER LINE	1,320	LF	80.00	105,600	164,000	(58,400)
W3	12" PVC WATER LINE BY OTHER THAN OPEN CUT	40	LF	250.00	10,000	10,000	0
W4	12" PVC WATER LINE WITH ENCASEMENT	100	LF	300.00	30,000	30,000	0
W5	CONNECT TO EX. 8 OR 12-IN WATER LINE	4	EA	2,500.00	10,000	10,000	0
W6	12" GATE VALVE	9	EA	3,000.00	27,000	18,000	9,000
W7	8" GATE VALVE	12	EA	2,700.00	32,400	0	32,400
W8	FIRE HYDRANT ASSEMBLY	8	EA	3,500.00	28,000	35,000	(7,000)
W9	TRENCH SAFETY	2,600	LF	2.25	5,850	8,201	(2,351)
W10	REPLACE CONCRETE DRIVEWAY	14	SY	185.00	2,590	2,590	0
W11	REPLACE GRAVEL DRIVEWAY	70	SY	70.00	4,900	4,900	0
W12	RECONNECT EXISTING SERVICES	2	EA	450.00	900	0	900
W13	TRAFFIC CONTROL	1	LS	2,500.00	2,500	8,500	(6,000)
	SUBTOTAL				342,940	388,691	(45,751)
EASEMENT ACQUISITION							
R1	SANITARY SEWER EASEMENT	1	LS	30,000.00	30,000	30,000	0
	SUBTOTAL				30,000	30,000	0
EROSION CONTROL							
C1	CURLEX IN PARKWAYS	3,000	LF	3.00	9,000	9,000	0
C2	SILT FENCE	3,000	LF	1.50	4,500	4,500	0
C3	ROCK CHECK DAM	4	EA	1,000.00	4,000	4,000	0
C4	SWPPP, NOI, AND REPORTING	1	LS	12,500.00	12,500	12,500	0
C5	GRASS SEEDING IN PARKWAYS	20,000	SY	5.00	100,000	100,000	0
C8	SOLID SOD	3,199	SY	16.00	51,184	51,184	0
C9	WATER GRASS	45	DAYS	750.00	33,750	33,750	0
C10	SWPPP, NOI, AND REPORTING	1	LS	10,000.00	10,000	10,000	0
	SUBTOTAL				224,934	224,934	0

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TOTAL PROBABLE CONSTRUCTION COST				3,656,000	3,500,000	156,000
ENGINEERING/SURVEYING						
E1	ENGINEERING DESIGN/GEOTECHNICAL/SURVEY (10%)			366,000	350,000	16,000
E2	MATERIAL TESTING (5% - LARGE AMOUNT OF FILL TESTING)			183,000	175,000	8,000
	SUBTOTAL			549,000	525,000	24,000
CONTINGENCY (10%)				366,000	350,000	16,000
RECOMMENDED PROJECT BUDGET (COMPLETION OF TRAILHOUSE ROAD)				\$4,571,000	4,375,000	196,000

- Notes:
1. Assumes soil for fill is available from City stockpile at PS 2
 2. Assumes no cost for necessary ROW and easements.