

COLLIN COUNTY ENGINEERING
Dallas North Tollway 4A - Southbound Frontage Road Design
Project No. #####

	Labor Category	Project Mgr.	Principal	Sr. Civil Eng.	Civil Eng.	Civil EIT	Civil CADD	Sr. Struct. Eng.	Struct. Eng.	Struct. CADD / GIS	Sr. Env. Scientist	Env. Scientist	Survey RPLS	Survey SIT	Survey Crew	Clerical	SUE Crew	SUE Coordinator	hrs /sheet								
Collin County Engineering																											
Dallas North Tollway 4A - SBFR	Team Member	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All		All	All		Print	Plot	Deliv./Travel	All	All
Fee Proposal - February 11, 2016	Hourly Billing Rate	\$218.00	\$240.00	\$208.00	\$161.00	\$115.00	\$91.00	\$212.00	\$168.00	\$104.00	\$170.00	\$125.00	\$175.00	\$105.00	\$160.00	\$75.00	\$140.00	\$135.00		Total Manhour	Total Labor \$		\$0.50	\$5.00	Misc.	Total Expense \$	Total \$
	Scope Reference	Plan Sheets																									
1.0 PROJECT MANAGEMENT / COORDINATION																											
1.a monthly status report, site visit and County meetings (6)	-	40		8	16	8										16				88	\$15,080		200	20	\$100	\$300	\$15,380
1.b design coordination meetings with Cities/Consultants (6)	-	24		12	12	24	16									8				96	\$14,476		200	20	\$100	\$300	\$14,776
1.c utility relocation coordination and misc exhibits	-	4			8	16	8									4		8		48	\$6,108		100	10	\$50	\$150	\$6,258
1.d TDLR submittal and review	-	4		2	4	8	8									4				30	\$3,880		500		\$2,500	\$2,750	\$6,630
1.e prepare exhibits for Outer Loop interchange mod.	-	4		8	16	24	16									2				70	\$9,478		200		\$100	\$200	\$9,678
2.0 DATA COLLECTION																											
2.a collection and distribution of existing plans	-	4			16	24	8									8				60	\$7,536		1000		\$200	\$700	\$8,236
2.b review City/NTTA standards and prepare design criteria	-	2		4	8			2	4											20	\$3,652		50			\$25	\$3,677
2.c SUE locating and mapping	-				2	4	16							2	16	4	56	30		130	\$17,198		200		\$4,000	\$4,100	\$21,298
3.0 GEOTECHNICAL																											
3.a geotechnical investigation, testing and report (HVJ)	-			2		4		2								2				10	\$1,450		500	50	\$118,748	\$119,248	\$120,698
3.b designer review and comment on geotechnical report	-	4		2	4			2	4											16	\$3,028		50	5	\$50	\$100	\$3,128
4.0 ENVIRONMENTAL																											
4.a identify and map WOUS - prepare USACE data sheets	-				2					16	24	72		2		16				132	\$16,476		200	10	\$500	\$650	\$17,126
4.b alternatives analysis	-	2			4					8	8					4				26	\$3,572		50			\$25	\$3,597
4.c T&E species	-										8	16				2				26	\$3,510		50			\$25	\$3,535
4.d mitigation credit assesment	-									4	4	8				4				20	\$2,396		100			\$50	\$2,446
4.e public involvement/permit coordination	-	2			4					8	40	80				24				158	\$20,512		500	50	\$1,000	\$1,500	\$22,012
5.0 SURVEY																											
5.a field work	-				4	8								4	240	2				258	\$40,534		50	5	\$500	\$550	\$41,084
5.b office work and parcel preparation	-	4			8	16							40	160		8				236	\$28,400		300	30	\$133	\$433	\$28,833
6.0 DRAINAGE STUDY																											
6.a Doe Branch hydraulic study for bridge design	1	4	2	16	120	40	8			16						8				214	\$31,592		200	10	\$100	\$250	\$31,842
6.b LOMR	-	4	2	8	40	64				24				4	16	16				178	\$23,492		500	20	\$200	\$550	\$24,042
7.0 DESIGN / PLAN SET PREPARATION																											
7.1 General																											
a. title sheet	2			4	8		12													12	24	\$3,212	100			\$50	\$3,262
b. sheet index	1				4	8	8		4											24	24	\$2,964	200	50		\$350	\$3,314
c. project layout / survey control	3	2		4	16	8	24						4	8						22	66	\$8,488	20			\$10	\$8,498
d. general notes	2	4		16	8		8	8	4											24	48	\$8,584	50			\$25	\$8,609
e. bid item summaries	8	4		8	16	48	32	4	8											15	120	\$15,736	50	10		\$75	\$15,811
7.2 Roadway																						500	20		\$350	\$350	
a. typical sections	8	4		16	32	64	48													20.5	164	\$21,080	100	20		\$150	\$21,230
b. removal plan	6			4	12	24	48		8											16	96	\$11,236	60			\$30	\$11,266
c. geometric data	4			8	32	16	16													18	72	\$10,112	40			\$20	\$10,132
d. paving plan / profile	18	8		36	72	108	72													16.44	296	\$39,796	180			\$90	\$39,886
e. misc. details	2			8	24	16	24													36	72	\$9,552	20			\$10	\$9,562
f. roadway grading & layout	18	8		18	36	72	108													13.44	242	\$29,392	180			\$90	\$29,482
7.3 Drainage																											
a. offsite drainage area map	2	4		8	16	8	16													26	52	\$7,488	20			\$10	\$7,498
b. roadway drainage area map	6			4	12	36	24													12.67	76	\$9,088	60			\$30	\$9,118
c. runoff, inlet and storm drain computations	4			4	24	40	8													19	76	\$10,024	40			\$20	\$10,044
d. culvert hydrologic / hydraulic data	1			12	48	24	8													92	92	\$13,712	10			\$5	\$13,717
e. storm drain plan / profile	12			12	36	72	48													14	168	\$20,940	120			\$60	\$21,000
f. storm drain profile	4			8	16	32	16													18	72	\$9,376	40			\$20	\$9,396
g. drainage structural details	2				8			8	24	16										28	56	\$8,680	20			\$10	\$8,690
h. culvert layouts	16			16	48	64	108													14.75	236	\$28,244	160			\$80	\$28,324
i. erosion control plan - SW3P	6			6	24	48	36													19	114	\$13,908	60			\$30	\$13,938
j. Doe Branch channel plan/profile	2	4		8	16	32	16													38	76	\$10,248	20			\$10	\$10,258
7.4 Traffic Control																											
a. phase narrative	1	2		4	16	4	4													30	30	\$4,668	10			\$5	\$4,673
b. advanced warning layout	2			2	4	8	12													13	26	\$3,072					

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Dallas North Tollway 4A - SBFR	Team Member	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All		All	All		Print	Plot	Deliv./Travel	All	All	
Fee Proposal - February 11, 2016	Hourly Billing Rate	\$218.00	\$240.00	\$208.00	\$161.00	\$115.00	\$91.00	\$212.00	\$168.00	\$104.00	\$170.00	\$125.00	\$175.00	\$105.00	\$160.00	\$75.00	\$140.00	\$135.00		Total Manhour	Total Labor \$		\$0.50	\$5.00	Misc.	Total Expense \$	Total \$	
Task Description	Scope Reference	Plan Sheets																										
d. abutment details		6						16	60	100									29.33	176	\$23,872		60			\$30	\$23,902	
e. bent details		4						32	24	64									30	120	\$17,472		40			\$20	\$17,492	
f. framing plan		8						24	64	120									26	208	\$28,320						\$28,320	
g. slab plan and deck details		12						32	120	140									24.33	292	\$41,504		120			\$60	\$41,564	
h. misc. details		2						8	16	24									24	48	\$6,880		20			\$10	\$6,890	
7.7 Striping and Signing																												
a. striping and signing plans		8	2		8	16	48	32											13.25	106	\$13,108		80			\$40	\$13,148	
b. misc. marking and sign details		1			4	16	16		4										40	40	\$4,612		10			\$5	\$4,617	
7.8 Traffic Signals																												
a. signal layouts		6	8		48	96	24	48											37.33	224	\$34,312		60			\$30	\$34,342	
b. signal phasing		6			24	72	12	24											22	132	\$20,148		60			\$30	\$20,178	
c. power supply, conduit and wiring layout		3	4		12	48	24	24										8	40	120	\$17,120		30			\$15	\$17,135	
7.9 Standard Drawings																												
a. select, review and modify appropriate standards		60	4		8	16	24	8	8	16	8								1.533	92	\$13,816		200			\$100	\$13,916	
7.10 Earthwork Cross Sections																												
a. summary sheets		2			12	24	8												22	44	\$5,420		20			\$10	\$5,430	
b. XS sheets		80	4		32	64	96	32											2.85	228	\$31,784			50		\$250	\$32,034	
c. produce / check DTM point file data		-			4	8	16													28	\$3,960						\$3,960	
7.a Plan Review Submittals and Cost Estimates			24	6	36	48	56	24	16	24	12					12				258	\$40,084		6000		\$200	\$3,200	\$43,284	
7.b Bid Proposal Documents			8		16	24										24				72	\$10,736		3000		\$100	\$1,600	\$12,336	
7.c Bid Phase Services			24		8	16	24	16	4	8	4					8				112	\$16,896		6000		\$200	\$3,200	\$20,096	
8.0 CONSTRUCTION PHASE																												
NIC																												
Subtotal Summary																												
1.0 PROJECT MANAGEMENT / COORDINATION			76		30	56	80	48								34		8		332	\$ 49,022		1200	50	\$ 2,850	\$ 3,700	# \$ 52,722	
2.0 DATA COLLECTION			6		4	26	28	24	2	4				2	16	12	56	30		210	\$ 28,386		1250		\$ 4,200	\$ 4,825	# \$ 33,211	
3.0 GEOTECHNICAL			4		4	4	4		4	4						2				26	\$ 4,478		550	55	\$ 118,798	\$ 119,348	# \$ 123,826	
4.0 ENVIRONMENTAL			4			10					36	84	176			50				362	\$ 46,466		900	60	\$ 1,500	\$ 2,250	# \$ 48,716	
5.0 SURVEY			4			12	24							40	164	240	10			494	\$ 68,934		350	35	\$ 633	\$ 983	# \$ 69,917	
6.0 DRAINAGE STUDY			8	4	24	160	104	8			40				4	16	24			392	\$ 55,084		700	30	\$ 300	\$ 800	# \$ 55,884	
7.0 DESIGN / PLAN SET PREPARATION		358	130	6	462	1100	1176	1118	228	568	700			4	8		44		8	25.47	5552	\$ 762,434		18080	150	\$ 500	\$ 10,290	# \$ 772,724
8.0 CONSTRUCTION PHASE																												
TOTAL		358	232	10	524	1368	1416	1198	234	576	776	84	176	44	180	272	176	56	46		7368	\$1,014,804		23030	380	\$128,781	\$142,196	\$1,157,000