

**BNSF Crete, NE Corridor Study
Preliminary Cost Estimate**

A. Summary of Estimated Hours

Role	Name	Hrs.	x	Direct Rate	=	Cost
1	Project Manager	751		\$ 95.00		\$71,345
2	Principal-in-Charge	30		\$ 130.00		\$3,900
3	QC Manager	242		\$ 90.00		\$21,780
4	Engineering Lead	766		\$ 80.00		\$61,280
5	Senior Engineer	714		\$ 65.00		\$46,410
6	Utilities Lead	280		\$ 60.00		\$16,800
7	Water and Sewer Lead Engineer	110		\$ 55.00		\$6,050
8	Civil Engineer	944		\$ 50.00		\$47,200
9	Design Engineer	470		\$ 40.00		\$18,800
10	Constructability Review Engineer	40		\$ 92.00		\$3,680
11	Traffic Manager/QC	239		\$ 90.00		\$21,510
12	Traffic Lead Engineer	154		\$ 70.00		\$10,780
13	Traffic Engineer	300		\$ 50.00		\$15,000
14	GIS Analyst	175		\$ 46.00		\$8,050
15	Railroad Coordination and Engineering	159		\$ 75.00		\$11,925
16	Track Engineering Designer	165		\$ 40.00		\$6,600
17	Environmental Manager	219		\$ 70.00		\$15,330
18	Environmental Planner	180		\$ 60.00		\$10,800
19	Senior Biologist	160		\$ 60.00		\$9,600
20	Scientist	180		\$ 45.00		\$8,100
21	Survey Manager	95		\$ 60.00		\$5,700
22	Survey QC	30		\$ 85.00		\$2,550
23	Senior Project Surveyor	73		\$ 60.00		\$4,380
24	Project Surveyor	240		\$ 45.00		\$10,800
25	Party Chief	265		\$ 40.00		\$10,600
26	Survey Field Technician	440		\$ 35.00		\$15,400
27	Survey Office Technician	535		\$ 45.00		\$24,075
28	Technical Editor	100		\$ 36.50		\$3,650
29	Project Coordinator	205		\$ 30.00		\$6,150
30	Project Accountant	59		\$ 36.12		\$2,131
31	Public Engagement Manager	70		\$ 80.00		\$5,600
32	Public Engagement Professional	0		\$ 60.00		\$0
33	Public Involvement Coordinator	115		\$ 40.00		\$4,600
		Total Hrs.		8505		

Total Raw Labor Cost \$ 510,576

B. Payroll Taxes, Fringe Benefit Costs, and G&A Overhead

Overhead	Total Raw Labor Cost	\$510,576.08	x	Overhead Mult. 176.36%	= \$	900,452
FCCM	Total Raw Labor Cost	\$510,576.08	x	FCCM Mult. 0.90%	= \$	4,595

C. Profit

Profit	Total Raw Labor Cost	\$510,576.08	x	Profit 30.00%	= \$	153,173
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Subtotal Labor Costs \$ 1,568,796

D. Reimbursable Expenses

Direct Expenses	Est. Quantity	Unit	Unit Cost	Total
1 Round Trip Mileage Cost	0	@ \$	134.28 Trip	\$ -
2 Mileage (Miscellaneous)	1000	@ \$	0.700 Mile	\$ 700.00
3 Airfare	0	@ \$	550.00 Trip	\$ -
4 Airfare	0	@ \$	450.00 Trip	\$ -
5 Parking	10	@ \$	10.00 Day	\$ 100.00
6 Rental Car	0	@ \$	150.00 Day	\$ -
7 Lodging (rate + 12% tax)	0	@ \$	150.00 Day	\$ -
8 Meals (and Incidentals)	30	@ \$	59.00 Day	\$ 1,770.00
9 Meals (and Incidentals) - Travel Day	0	@ \$	59.00 Day	\$ -
10 Traffic Counts (Turning Movement)	30	@ \$	250.00 EA	\$ 7,500.00
11 Traffic Counts (ADT)	20	@ \$	300.00 EA	\$ 6,000.00
12 Storm Drain Camera Inspection	0	@ \$	10,000.00 LS	\$ -
13 Survey Aerial	1	@ \$	200,000.00 LS	\$ 200,000.00
14 Survey Miles	1500	@ \$	0.70 Mile	\$ 1,050.00
15 Basic Mail Service	0	@ \$	0.50 EA	\$ -
16 Print/Copy by Vendor (B&W)	0	@ \$	0.07 EA	\$ -
17 Print/Copy by Vendor (Color)	0	@ \$	1.00 EA	\$ -

18	Print/Mount/Laminate by Vendor	0	@ \$ 25.00 EA	\$ -
19	Control Rebar Supplies	60	@ \$ 5.00 EA	\$ 300.00
20	Misc. Survey Supplies (Flagging, Lathe, etc.)	8	@ \$ 1,000.00 EA	\$ 8,000.00
21	ROW Monuments	0	@ \$ 5.00 EA	\$ -
22	Existing Monument Carsonite Posts/Stickers	0	@ \$ 5.00 LS	\$ -
23	Control Markers	0	@ \$ 5.00 EA	\$ -
24	sUAS Equipment Fees	5	@ \$ 650.00 EA	\$ 3,250.00
25	Title Reports	30	@ \$ 350.00 EA	\$ 10,500.00
26	Title Company RW Deed Research	30	@ \$ 100.00 HR	\$ 3,000.00
27	Miscellaneous Office Expenses	0	@ \$ 1.00 EA	\$ -
28	Private Utility Locates	1	@ \$ 40,000.00 LS	\$ 40,000.00
29	Traffic Control	10	@ \$ 4,000.00 LS	\$ 40,000.00
30	Mobile Scanning Fees	1	@ \$ 25,000.00 LS	\$ 25,000.00
31	sUAS Mapping Drone LiDAR	1	@ \$ 15,000.00 LS	\$ 15,000.00
32	sUAS Mapping Drone Tier 3 RTK	0	@ \$ 900.00 Day	\$ -
33	Static 3D Laser Scanner	30	@ \$ 589.00 Day	\$ 17,670.00

Subtotal Reimbursable Expenses **\$ 379,840**

Prime Consultant Subtotal **\$ 1,948,636**

D. Salary Adjustment

Total Raw Labor Cost + Overhead		per year	% of Contract with Adjustment	
\$510,576.08	x	4%	x	2.0
				\$40,846.09

E. Prime Total **\$ 1,989,482.15**

F. Subconsultants & Additional Services Total

1 Geotechnical Services	10.75%	-	-	\$ 266,714.30
Total	10.75%	0.00%	0.00%	
	10.75%		Subconsultants Subtotal	\$ 266,714.30

Project Subtotal \$ 2,256,196.45

10% Contingency \$ 225,619.65

PROJECT TOTAL (E + F) = \$ 2,481,816