



WORK PLAN & COST PROPOSAL

Project Name: Wasena Industrial Road Extension
Client: City of Duluth
Preparer: LHB

Project Number: 180273
Date: 4/11/18

Work Task	Description	LHB										TOTAL HOURS	TOTAL EXPENSES	TOTAL LABOR COST PER TASK	TOTAL COST PER DELIVERABLE				
		Joe Litman Principal	Brad Scott Project Manager	Adam Beissel Roadway Designer	Nathan Bruno Drainage Engineer	Heidi Bringman Wetland Specialist	Steve Hohenstein Technician	Paul Vogel Land Surveyor	Mike Zabukover Survey Tech										
1.00	Initial Site Visits & Consultations	1	10	13	0	0	0	0	0	0	0	0	24	\$ -	\$ 3,000.00	\$ 3,000.00			
1.01	Project Kickoff / Initial Site Visit	1	4	4	0	0	0	0	0	0	0	0	0	\$ -	\$ 1,191.00	\$ 1,191.00			
1.02	(3) Status Meetings at City Hall	6	6	9	0	0	0	0	0	0	0	0	0	\$ -	\$ 1,809.00	\$ 1,809.00			
2.00	Data Collection & Investigation	0	9	16	0	29	61	45	142	8	45	50	302	\$ 900.00	\$ 31,129.00	\$ 32,029.00			
2.01	Field Survey & Mapping						40							\$ 900.00	\$ 9,024.00	\$ 9,924.00			
2.02	Boundary Survey													\$ -	\$ 4,382.00	\$ 4,382.00			
2.03	ROW Acquisition Exhibits & Descriptions (9 EA)													\$ -	\$ 10,365.00	\$ 10,365.00			
2.04	Gopher State One Call & Utility Verification													\$ -	\$ 1,458.00	\$ 1,458.00			
2.05	Geotechnical Coordination													\$ -	\$ 159.00	\$ 159.00			
2.06	Archaeological Coordination													\$ -	\$ 159.00	\$ 159.00			
2.07	Wetland Delineation & Report					10	11							\$ -	\$ 2,246.00	\$ 2,246.00			
2.08	(1) Technical Evaluation Panel (TEP) Field Review					3								\$ -	\$ 390.00	\$ 390.00			
2.09	Complete and submit regulatory permit applications (Joint Application, NPDES)					16	10							\$ -	\$ 2,940.00	\$ 2,940.00			
3.00	Plans and Specifications	5	94	394	60	0	86	0	0	0	0	0	579	\$ -	\$ 62,627.00	\$ 62,627.00			
3.01	Title Sheet (1 Sheet)		1	2										\$ -	\$ 349.00	\$ 349.00			
3.02	Statement of Estimated Quantities (2 Sheets)		2	8										\$ -	\$ 1,766.00	\$ 1,766.00			
3.03	Construction Notes & Standard Plates (1 Sheet)		1	2										\$ -	\$ 349.00	\$ 349.00			
3.04	Tabulations (10 Sheets)													\$ -	\$ -	\$ -			
3.05	Removals, Pavement, Erosion Control & Turf		4	12										\$ -	\$ 2,808.00	\$ 2,808.00			
3.06	ADA, Driveways, Signing, Striping		6	12										\$ -	\$ 2,610.00	\$ 2,610.00			
3.07	Drainage, Watermain, Sanitary		6	40	8									\$ -	\$ 7,498.00	\$ 7,498.00			
3.08	Typical Sections (2 Sheets)		4	4										\$ -	\$ 1,776.00	\$ 1,776.00			
3.09	Alignment Plan and Tabulation (2 Sheets)		4	12										\$ -	\$ 1,324.00	\$ 1,324.00			
3.10	Construction Details (13 Sheets)		4	26										\$ -	\$ 3,106.00	\$ 3,106.00			
3.11	ADA & Design Documentation (5 Sheets)		6	36										\$ -	\$ 4,374.00	\$ 4,374.00			
3.12	Intersection Details (4 Sheets)		6	6	24									\$ -	\$ 3,642.00	\$ 3,642.00			
3.13	Stormwater Basins (3 EA)		4	20										\$ -	\$ 3,236.00	\$ 3,236.00			
3.14	Railroad Crossing (Plan & Profile)		8	80										\$ -	\$ 8,872.00	\$ 8,872.00			
3.15	Construction Plans and Profiles (6 Sheets - 1" = 40')		8	16										\$ -	\$ 3,956.00	\$ 3,956.00			
3.16	Drainage Profiles (4 sheets)		6	6										\$ -	\$ 2,474.00	\$ 2,474.00			
3.17	Sanitary Profiles (2 Sheets)		4	16										\$ -	\$ -	\$ -			
3.18	Erosion and Sediment Control Plan (3 Sheets)		4	10										\$ -	\$ 1,586.00	\$ 1,586.00			
3.19	City standard SWPPP and EC Details		4	8										\$ -	\$ 1,396.00	\$ 1,396.00			
3.20	Traffic Control (2 Sheets)		6	20										\$ -	\$ 2,854.00	\$ 2,854.00			
3.21	Earthwork Volume Summary (1 Sheet)		6	16						32				\$ -	\$ 5,226.00	\$ 5,226.00			
3.22	Cross Sections (16 Sheets)		6	16										\$ -	\$ 1,129.00	\$ 1,129.00			
3.23	Special Provisions (90% Complete)		1	6										\$ -	\$ 1,024.00	\$ 1,024.00			
3.24	State Hydraulics Submittal		8	8										\$ -	\$ 1,272.00	\$ 1,272.00			
4.00	State Aid Plan Submittal		8	8										\$ -	\$ 1,272.00	\$ 1,272.00			
4.01	90% Cost Estimate		4	4									14	\$ -	\$ 1,714.00	\$ 1,714.00			
4.02	Final Cost Estimate		2	4										\$ -	\$ 1,016.00	\$ 1,016.00			
5.00	Project Bidding		2	2	0	0	0	0	0	0	0	0	8	\$ -	\$ 698.00	\$ 698.00			
5.01	Clarifications or Addenda		2	6	0	0	0	0	0	0	0	0	0	\$ -	\$ 888.00	\$ 888.00			
6.00	Construction Administration	2	35	44	0	0	0	12	100	193	0	0	193	\$ -	\$ 20,671.00	\$ 20,671.00			
6.01	Preconstruction Meeting		3	6										\$ -	\$ 888.00	\$ 888.00			
6.02	Construction Project Management (20 Weeks)		20	20										\$ -	\$ 1,397.00	\$ 1,397.00			
6.03	Provide electronic files and staking reports		10	10										\$ -	\$ 3,180.00	\$ 3,180.00			
6.04	Construction Staking (Staking Files, Hubs, Utilities, Curb Stakes & Blue Tops)		2	2							12	100		\$ -	\$ 950.00	\$ 950.00			
6.05	Shop Drawing Review		4	6										\$ -	\$ 10,766.00	\$ 10,766.00			
6.06	State Aid Documentation		8	20										\$ -	\$ 1,206.00	\$ 1,206.00			
7.00	Construction Inspection	0	20	1200	0	0	0	0	0	0	0	0	0	\$ -	\$ 3,172.00	\$ 3,172.00			
7.01	Construction Inspection (Assume 20 weeks @ 60 hrs/week)		20	1200										\$ -	\$ 117,180.00	\$ 117,180.00			
8.00	Meetings and Public Participation	0	48	56	0	0	0	0	0	0	0	0	84	\$ -	\$ 11,052.00	\$ 11,052.00			
8.01	(3) Public Meetings		12	20										\$ -	\$ 3,808.00	\$ 3,808.00			
8.02	(3) Small Group Meetings		12	12										\$ -	\$ 3,048.00	\$ 3,048.00			
8.03	(2) Meetings with City and MnDOT staff		4	4										\$ -	\$ 1,016.00	\$ 1,016.00			
8.04	(20) Onsite Construction Meetings		20	20										\$ -	\$ 3,180.00	\$ 3,180.00			
Total Hours																			
		8	224	1657	60	29	147	57	242										
Cost per Hour																			
		\$ 175	\$ 159	\$ 95	\$ 128	\$ 130	\$ 86	\$ 148	\$ 88										
Total Cost																			
		\$ 1,400	\$ 35,616	\$ 157,415	\$ 7,680	\$ 3,770	\$ 12,642	\$ 8,436	\$ 21,296										
SUMMARY																			
															TOTAL LABOR	\$ 248,255.00			
															TOTAL EXPENSES	\$ 900.00			
															SUBCONSULTANT (DAC)	\$ 2,886.25			
															SUBCONSULTANT (TPT)	\$ 11,954			
															TOTAL FEE	\$ 264,095			