

July 11, 2025

Duncan Schwensohn City of Duluth 411 W. First Street Duluth, MN 55802

DESIGN SERVICES NIAGARA STREET BRIDGE AMENDMENT NO. 1

Duncan.

Attached please find our Amendment #1 fee estimate for the Niagara Street Bridge project. The Amendment covers the following items:

- 1. Work related to the emergency repairs needed in 2023 after the washout was detected. This included coordinating the temporary structural design and details and completing the hydraulic analysis required.
- Performing the DNR required "After the Fact" permit there was not time to acquire a permit ahead of the 2023 emergency work, so a follow up process was required to permit the temporary repair. Permitting for the new permanent structure is accommodated under the original contract scope.
- 3. Additional Design Work. As design progressed additional design scope was required to properly complete the project:
 - a. Investigate and report on the culvert size for eligibility for federal funding.
 - b. Complete the MPCA 401 permitting submittal.
 - c. Sanitary sewer design.
 - d. Additional field survey at St. Scholastica for the final selected detour/bypass.
 - e. Update design and plan for the DNR-required change from 16-foot span box culvert to 20-foot span box culvert
 - f. Special structural design and load rating for non-standard 20-foot span box culvert
 - g. Special design for box culvert custom inlet apron
 - h. Design and detailing for moment slab and concrete barrier.
- 4. DNR Permit Fee

We are currently in the final design phase of the project and expect to have a review set of plans for you to review in the next few weeks. We appreciate your consideration for the detailed scope changes and are happy to discuss any questions or comments you may have. Thanks, Duncan!

LHB, INC.

JON W. SIITER, PE – PRINCIPAL ENGINEER

c: Names of Recipients LHB Project No. 230710

Jm W. Siiter

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Project Name Client Preparer Niagara St Bridge - Design Amendment 01 City of Duluth Jon Siiter & Kyle Marynik Project Number Date 230710 July 11, 2025

2025 FEE ESTIMATE WORKSHEET

2025 FEE ESTIMATE WORRSHEET		JWS			HYDRO ENG	KDM/CJM	RAM		JRM						
	P1	P2	P4	P5	P8	P9	P10	T1	T5	T7	T8	T10	T12		Total
Project Breakdown	Project	Profess.	Profess.	Profess.	Profess.	Profess.	Profess.	Senior	Lead	Lead	Inter.				Labor
Task	Principal	Eng.	Eng.	Eng.	Eng.	Eng.	Eng.	Tech.	Tech.	Tech.	Tech.	Tech.	Tech.		Costs
Description	\$ 265	\$ 240	\$ 210	\$ 195	\$ 160	\$ 155	\$ 145	\$ 145	\$ 115	\$ 105	\$ 100	\$ 90	\$ 80		(\$)
Task 1 - 2023 Emergency Repair Assistance														\$	-
Emergency Repair Plan/Details, Coordination & CA		1				12								\$	2,100.00
Emegency Repair Hydraulics Analysis					8									\$	1,280.00
														\$	-
														\$	-
Task 2 - MnDNR "After-the-Fact" Permitting														\$	-
Coordination & Correspondence with DNR						6								\$	930.00
DNR Meeting & Prep						2								\$	310.00
Online Permitting & Hydraulics					12		8							\$	3,080.00
														\$	-
														\$	_
Task 3 - Additional Design Phase Work														\$	-
Federal Funding Culvert Size Verification Site Visits						2								\$	310.00
MPCA Section 401 Permitting Submittal & Mtgs						4	6							\$	1,490.00
Sanitary Sewer Investigation Exhibits & Mtg		1			1	2			2					\$	940.00
Field Survey for St. Scholastica Temp Access Route									4					\$	460.00
Revise Hydr & Plan per DNR change from 16'-20' box					4				4					\$	1,100.00
Custom Box Culvert Design & Load Rating (20' span)						4	8							\$	1,780.00
Custom Box Culvert Inlet Apron Details		1				2			4					\$	1,010.00
Moment Slab & Barrier Design & Plan Details		1				8	8		24					\$	5,400.00
3														\$	-
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Total Hours	-	4	_	-	25	42	30	_	38	-	-	_	_	-	
Travel Expenses	Qty	Rate	Cost			r Direct Exp		1		ost	Labor Co	st	+	\$	20,190.00
Travel Exp (Airfare, Meals, Hotel, Rental Car, Gas, etc.)	,		-	Mail / Delivery Printing Other							Travel Costs			\$	-
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	Total T	raval Casta	_	Total Direct Costs							Total Fa	timated C	net	\$	21,390.00
Total Travel Costs				Total Direct Costs - Total Estimated Cost								UST	φ	21,390.00	