



Purchasing Division
Finance Department
Room 120
411 West First Street
Duluth, Minnesota 55802

218-730-5340
purchasing@duluthmn.gov

Addendum 1
Solicitation 23-99641
Shoreline Rehabilitation between 3rd Ave. E and 4th Ave. E.

This addendum serves to notify all bidders of the following changes to the solicitation documents:

The Following questions were asked and are answered in *Italics* below.

1. Is the site accessible?
 - a. *Yes, the site is accessible. It is not blocked off.*
2. Are printed copies of the plans available?
 - a. *The Contractor is directed to utilize the Bid Express (<https://www.bidexpress.com>) platform for viewing/printing the plans.*
3. Are there any soil borings?
 - a. *Yes, please see attached sheets from the I-35 Project plan set.*
4. Where should excess rock be brought to?
 - a. *No excess rock is anticipated for this project. Any “excess” rock will be placed lakeside of the retaining wall in accordance with recommendations provided by the Engineer. Excess debris and unsuitable materials shall be hauled offsite.*
5. Is rock from Lot D an option?
 - a. *Alternate line items (ALT 02 & ALT 03) have been added to the bid form for use of stone from Lot D (approximate location of Lat: 46.776196°, Long: - 92.106959°). The City owns the rock at Lot D. The new line items have been added to the bid form. The Contractor is to include all costs associated with the loading, delivery, and installation of the materials. A revised bid form will be posted on Bid Express which incorporates ALT 02 & ALT 03.*
6. Could a detour route be set up so pedestrians are not around the project site?
 - a. *For special events, yes. The City has set up detours in the past for these situations.*
 - b. *If there are critical work elements where the Lakewalk needs to be shut down, the Contractor shall coordinate with the City. Assume up to 1 week shutdowns are possible but the goal here is to limit the amount the Lakewalk is shutdown as it is a highly utilized area for the Public.*
 - c. *The City will require a 2 week notice for any Lakewalk closures. Notification is to be sent to the City of Duluth’s project manager (Lisa).*
7. If pavement is removed, what should it be replaced with?
 - a. *Since the Work will occur this year, the Contractor shall replace removed asphalt with clean crushed rock adhering to gradation and quality requirements of*

MNDOT Table 3149.2-9 of the MNDOT Standard Specifications for Construction. Pavement may not be removed beyond the existing extents of the Boardwalk.

Clarifications:

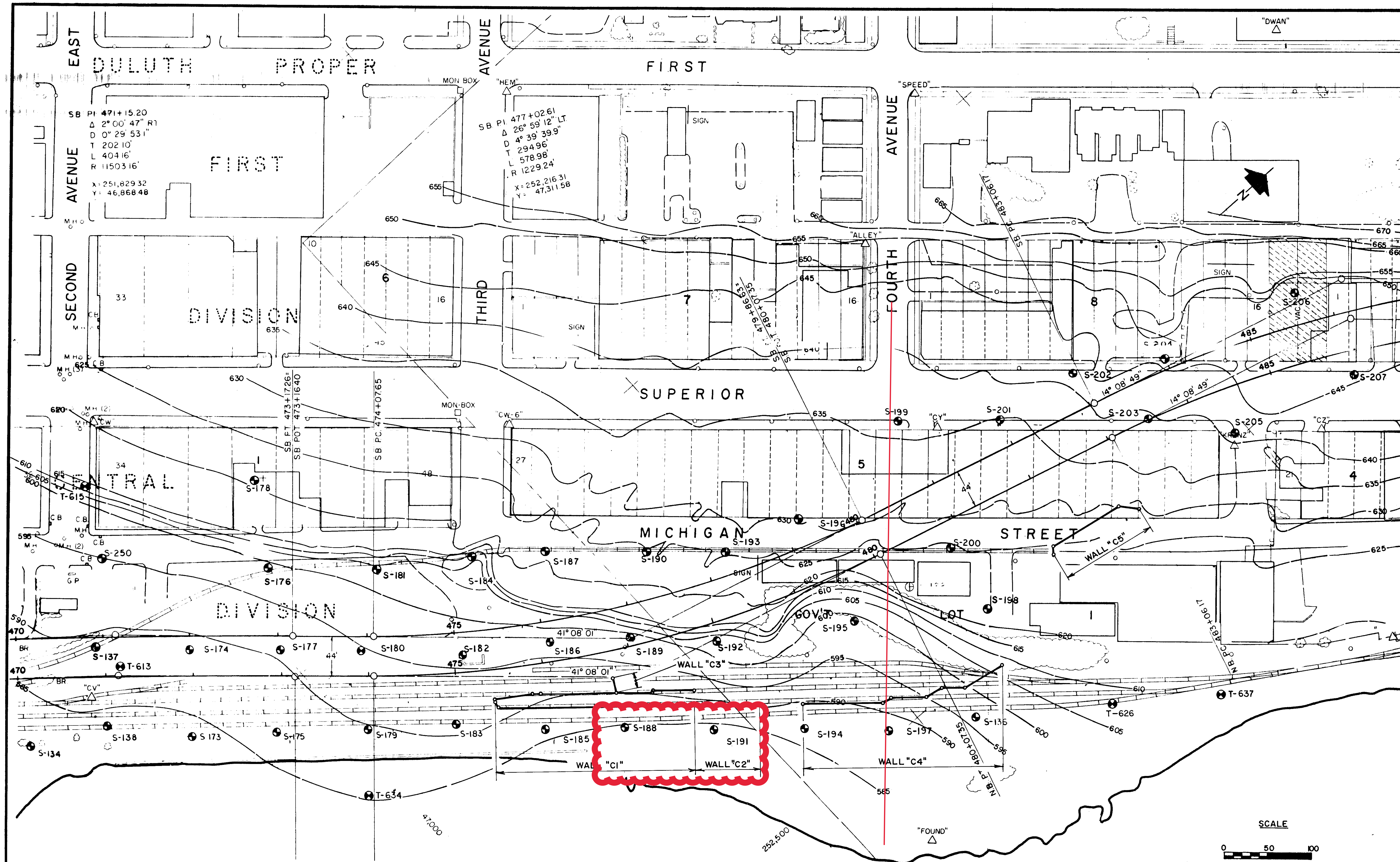
- Formed concrete surfaces shall meet the standards of CSC3 according to ACI 347.3R per the technical specification section 03 30 00 part 3.1.C. A finishing reference is attached to this addendum for reference.
- The concrete joint between the footing and stem of the reinforced concrete retaining wall shall be roughened to a ¼" amplitude (reference joint location in detail 1/S1.0).
- Weepholes shall not be in alignment with vertical concrete joints. Weepholes must be offset a minimum of 2 feet from vertical concrete joints. Weepholes shall be located approximately 1 foot above the top of the concrete footing.
- Plan Sheets C4.0 and C4.1 have been updated to remove the temporary rock windrow from the plan set. This does not alleviate the Contractor from protecting the site during storm events (wave, wind, rain, etc.). In the event a storm event arises, the Contractor will need to properly secure the site. A submittal will be required for the Contractor's approach on this after the notification of Award is issued. Contractor shall assume full responsibility for protecting the site for significant wave heights up to 12 ft in height as measured from NOAA Buoy 45028 (<https://www.ndbc.noaa.gov/>). NOAA Buoy 45028 is located offshore approximately 12.62 miles from the Site at a heading of 82.16 degrees. If buoy data is not available, the Contractor shall ensure that the Site is protected for constant wind speeds below 40 mph measured from the weather station FW0850 in Duluth, MN (<https://www.sailflow.com/spot/170527>).
- The pre-bid meeting sign in sheet is attached to this addenda
- The Contractor shall salvage the existing sign on site at the top of the slope and deliver the sign to the City of Duluth.
- Contractor shall submit construction permits immediately upon notification of award. If removal of the existing boardwalk is required, the Contractor shall remove the boardwalk in a manner so that it may be re-installed to pre-construction conditions. If damage is done by the Contractor, the boardwalk members that are damaged shall be replaced with new IPE members or used IPE members that have been approved for use by the City of Duluth. In general IPE wood is hard to work with. In past projects, cutting the stringers at ~10 feet on center and removing full ~10-foot sections (stringers and deck boards all connected) has worked well.

The following documents are attached to this addendum:

- Soil Boring Logs
- Concrete Finishing Reference
- Revised Plan Sheets C4.0 & C4.1
- Pre-Bid meeting sign in sheet
- Updated Bid Sheet

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation.

Posted: **September 22, 2023**



T-623

T-630

T-635

T-638

T-639

T-641

REVISED MARCH 6, 1979
JANUARY 22, 1979

DFDG S.P.6982-218
Task Title
SOILS SURVEY AND ANALYSIS
Sheet Title
BEDROCK TOPOGRAPHY MAP

DULUTH FREEWAY DESIGN GROUP		
Des. DCCO	Drw. RHM/RGL	Approved
Chk. MHW	Chk. JAC	
Sheet No. 244 of 267 Sheets		ER 66 OF 75

lakehead testing laboratory, inc.									
JOB NO. 79-3033		VERTICAL SCALE		LOG OF TEST BORING NO. S-195					
PROJECT DULUTH FREEWAY, MESABA TO 10TH AVENUE EAST, DULUTH, MINNESOTA									
DEPTH IN FEET	DESCRIPTION OF MATERIAL			N	WL	SAMPLE NO. TYPE		LABORATORY TESTS W D L.L. P.L. Qu	
0	SURFACE ELEVATION 607.8								
6	FILL, silty sand and gravel to 3 ft., then mostly wood (FILL)			29		1	SS		
	SEDIMENT, sand, brown, fine grained, water-bearing, very loose, traces of organics (SEDIMENT)			1		2	SS		
				2		3	SS		
19 1/2	SAND and gravel (SP-SM)			Boulder		4	SS		
21.4	IGNEOUS ROCK-BASALT, gray, very hard								
	Coring Data Depth Cored Recovery % Run Time (Min.) RQD								
	21.4 - 24.4' 89 9 89								
29.2	24.4 - 29.2' 100 13 98								
	(end of boring)								
WATER LEVEL MEASUREMENTS									
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	START 10/25/78 COMPLETE 10/25		
10/25	9:10	11'	9 1/2'	9 1/2'	10	7'	METHOD 3 1/2 HSA to 9 1/2', 12:00		
					10		4C to 14', DM 9 1/2 - 21.3', then		
					10		NQ wireline		
					10		CREW CHIEF Anderson		

lakehead testing laboratory, inc.									
JOB NO. 79-3033		VERTICAL SCALE		LOG OF TEST BORING NO. S-196					
PROJECT DULUTH FREEWAY, MESABA TO 10TH AVENUE EAST, DULUTH, MINNESOTA									
DEPTH IN FEET	DESCRIPTION OF MATERIAL			N	WL	SAMPLE NO. TYPE		LABORATORY TESTS W D L.L. P.L. Qu	
0	SURFACE ELEVATION 612.8								
6	FILL, silty sand, gravel, wood (FILL)			15		1	SS		
				7		2	SS		
	FILL/SEDIMENT, lean clay, silty sand, clayey silt, with boulders (FILL/SEDIMENT)			31		3	SS		
16.0				28		4	SS		
				2		5	SS		
	IGNEOUS ROCK-DULUTH GABBRO, gray, very hard								
24.0	Coring Data Depth Cored Recovery % Run Time (Min.) RQD								
	16.0 - 19.3' 100 8 75								
	19.3 - 24.0' 94 11 93								
	(end of boring)								
WATER LEVEL MEASUREMENTS									
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	START 10/26/78 COMPLETE 10/26		
10/26	11:39	24'	16'	-	10	None	METHOD 6FA to 4 1/2', 4C to 12:05		
10/26	12:03	24'	None	7.3'	10	None	7'. DM 7-16', then NQ wireline		
					10		CREW CHIEF		

lakehead testing laboratory, inc.									
JOB NO. 79-3033		VERTICAL SCALE		LOG OF TEST BORING NO. S-199					
PROJECT DULUTH FREEWAY, MESABA TO 10TH AVENUE EAST, DULUTH, MINNESOTA									
DEPTH IN FEET	DESCRIPTION OF MATERIAL			N	WL	SAMPLE NO. TYPE		LABORATORY TESTS W D L.L. P.L. Qu	
0	SURFACE ELEVATION 608.0								
6	FILL, silty sand, gravel, cinders, silt (FILL)			16		1	SS		
				4		2	SS		
	SEDIMENT, sand, brown, fine grained, water-bearing, loose, traces of organics (SEDIMENT)			4		3	SS		
17 1/2				7		4	SS		
	SAND, brown, fine grained, water-bearing, with gravel (GP & SP-SM)			Boulder		5	SS		
	BOULDERS (Cored)								
23.4	IGNEOUS ROCK-BASALT, gray, very hard, AMYGDA-LOIDAL below 26'								
	Coring Data Depth Cored Recovery % Run Time (Min.) RQD								
	23.4 - 25.3' 88 10 48								
28.3	25.3 - 28.3' 92 10 42								
	(end of boring)								
WATER LEVEL MEASUREMENTS									
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	START 10/24/78 COMPLETE 10/24		
10/24	1:30	8 1/2'	7'	7'	10	6 1/2'	METHOD 3 1/2 HSA to 7', 6:30		
					10		4C to 9', DM 7-20.9', then NQ		
					10		wireline		
					10		CREW CHIEF Anderson		



BAKKE
KOPP
BALLOU &
McFARLIN, INC.
PROFESSIONAL ENGINEERS

219 North Second Street
Minneapolis, Minnesota 55401
(612) 333-7101

DFDGD

S.P.6982-218

DULUTH FREEWAY DESIGN GROUP

TEST BORING LOGS

Des DCCO Drw DCCO Approved
Chk C S/K Chk RGL

Sheet No. 252 of 267 Sheets

ER 74
OF 75

lakehead testing WOODBURY, INC.										
JOB NO. 78-3033		VERTICAL SCALE		LOG OF TEST BORING NO. S-189						
PROJECT DULUTH FREEWAY, MESABA TO 10TH AVENUE EAST, DULUTH, MINNESOTA										
DEPTH IN FEET	DESCRIPTION OF MATERIAL	N	WL	SAMPLE NO. TYPE	W	D	LL PL	Qu		
6	FILL, ashes, silty sand, gravel, with clay and boulders (FILL)	12		1 SS						
		5		2 SS						
		41		3 SS						
	SILTY SAND, brown, with gravel and boulders (SM-GM) (Cored Boulder 7.6 - 9.6')	50/0.0'		4 SS						
		50/0.2'		5 SS						
12.2	IGNEOUS ROCK-DULUTH GABBRO, gray, very hard									
20.3	Depth Cored Coring Data Run Time RQD Recovery % 12.2 - 14.2' 0% 7 0 14.6 - 17.6' 77 14 55 19.2 - 20.3' 100 26' 90									
	(end of boring)									
Note 1: No water noted before using drilling fluid at 7'										
Note 2: NIG Casing was temporarily "stuck" at 12.7'										
WATER LEVEL MEASUREMENTS										
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL				
START 10/26/78 COMPLETE 10/27										
METHOD 3 1/2 HSA to 7', DM 9.10										
7-12.2', then NQ wireline										
CREW CHIEF Mishler										

lakehead testing WOODBURY, INC.										
JOB NO. 78-3033		VERTICAL SCALE		LOG OF TEST BORING NO. S-191						
PROJECT DULUTH FREEWAY, MESABA TO 10TH AVENUE EAST, DULUTH, MINNESOTA										
DEPTH IN FEET	DESCRIPTION OF MATERIAL	N	WL	SAMPLE NO. TYPE	W	D	LL PL	Qu		
6	SEDIMENT, SAND, brown, fine grained, water-bearing, loose to dense, traces of organics (SEDIMENT)	6		1 SS						
		10		2 SS						
		47		3 SS						
		13 1/2								
		23.6								
31.2	BOULDERS									
23.6	IGNEOUS ROCK-AMYGDALOIDAL BASALT, gray, very hard									
31.2	Depth Cored Coring Data Run Time RQD Recovery % 23.6 - 24.3' 100 3 0 24.3 - 29.3' 98 18 61 29.3 - 31.2' 100 8 88									
	(end of boring)									
WATER LEVEL MEASUREMENTS										
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL				
10/25	4:45	31.2'	None	8'	- 10 -	None				
START 10/25/78 COMPLETE 10/25										
METHOD 6 FA to 5', 4C to 4.50										
7', DM 6 1/2 - 23.6', then NQ wireline										
CREW CHIEF Saugstad										

lakehead testing WOODBURY, INC.										
JOB NO. 78-3033		VERTICAL SCALE		LOG OF TEST BORING NO. S-192						
PROJECT DULUTH FREEWAY, MESABA TO 10TH AVENUE EAST, DULUTH, MINNESOTA										
DEPTH IN FEET	DESCRIPTION OF MATERIAL	N	WL	SAMPLE NO. TYPE	W	D	LL PL	Qu		
6	FILL, silty sand, gravel, boulders (FILL)	6		1 SS						
		6.3								
		14.3								
14.3	IGNEOUS ROCK-BASALT, gray, very hard									
	(end of boring)									
*note: Possible worn diamond bit.										
WATER LEVEL MEASUREMENTS										
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL				
10/26	9:45	14.3'	6'	-	10	2.1'				
START 10/25/78 COMPLETE 10/26										
METHOD 6 FA to 5', 4C to 8.40										
6', DM to 6.3', then NQ wireline										
CREW CHIEF Saugstad										



- | FORMED CONCRETE SURFACE CATEGORY | CSC1 | CSC2 | CSC3 | CSC4 |
|---|------|------|------|------|
| ALLOWABLE SURFACE IRREGULARITY OR DEVIATION | 1" | ½" | ¼" | ⅛" |
| PERMISSIBLE VOID AREA WITHIN TEST AREA | 1.2% | 1.0% | 0.6% | 0.3% |
| MAXIMUM ALLOWABLE VOID DIAMETER | ¾" | ⅝" | ⅜" | ¼" |

FINISHED FORMED CONCRETE SURFACE CATEGORY	SF-1.0	SF-2.0
MAXIMUM WIDTH OF VOIDS NOT PATCHED	1 ½"	¾"
MAXIMUM DEPTH OF VOIDS NOT PATCHED	½"	½"
TIE HOLE PATCHING	NO	YES



- AMI**
Consulting Engineers P.A.
91 Main Street SUPERIOR, WI
715-718-2193 - amiengineers.com
TWIN CITIES - IRON RANGE

I HEREBY CERTIFY THAT THE EXAM, SUPPLEMENT, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A QUALIFIED LICENSED ENGINEER OR ARCHITECT UNDER THE LAWS OF THE STATE OF _____

NAME _____

SIGNATURE _____

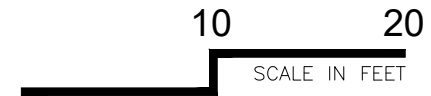
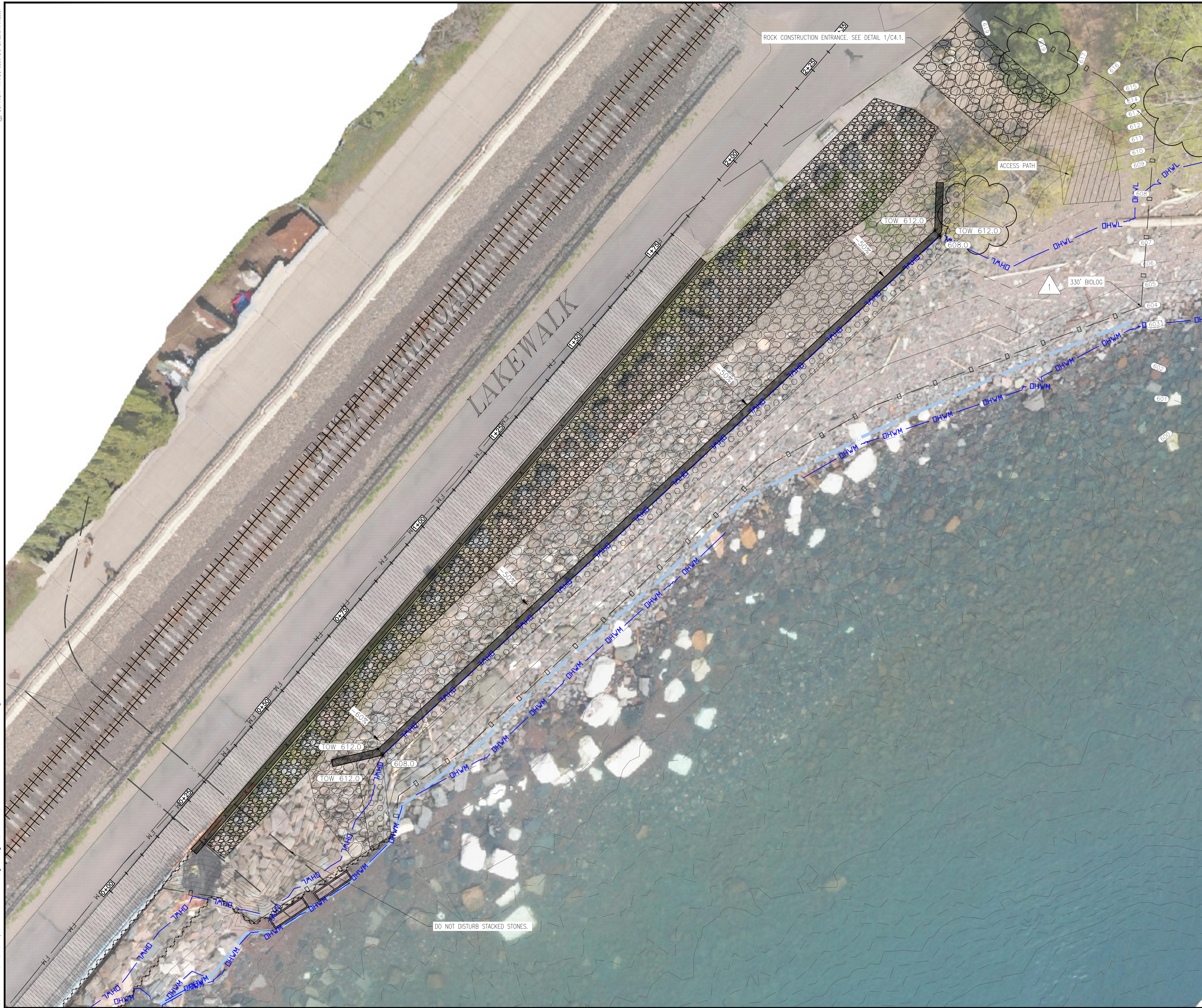
DATE _____

UIC No. _____

NOT FOR CONSTRUCTION

[illegible]

JOB No:
DATE:
DRAWN BY:
DESIGNED BY:
SHEET:



— ☐ — BIOLOG OR BALES

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA

NAME: ZACHARY MORRIS

SIGNATURE: *Zachary Morris*

DATE: 09/06/2023

LIC. NO.: 56405

STATE DISASTER AREAS SHORELINE REHABILITATION 3RD AVEE TO 4TH AVEE CITY OF DULUTH, MN	DATE:	09/06/2023	REV:	0	DESCRIPTION	ISSUED FOR CONSTRUCTION	REV. BY:	ZLM
				1		REVISION 1		ZLM
EROSION AND SEDIMENT CONTROL PLAN <small>DATE: 09/06/2023</small>								
JOB No: 231016 DATE: 09/06/2023 DRAWN BY: BDH DESIGNED BY: ZLM								
SHEET: <div style="font-size: 48pt; text-align: center;">C4.0</div>								



JOB No: 231016 DATE: 09/06/2023 DRAWN BY: BDH DESIGNED BY: ZLM		STATE DISASTER AREAS SHORELINE REHABILITATION 3RD AVE E TO 4TH AVE E CITY OF DULUTH, MN		DATE: 09/06/2023 REV: 0 DESCRIPTION: ISSUED FOR CONSTRUCTION REV. BY: ZLM	
SHEET:		EROSION AND SEDIMENT CONTROL DETAILS		DATE: 09/06/2023 REV: 1 DESCRIPTION: REGION 1 REV. BY: ZLM	
C4.1					

PROJECT:

Shoreline Rehab - 3rd to 4th



DATE:

Thursday, September 21, 2023 (11:00 AM → 11:30 AM)

Consulting Engineers P.A.

MEETING SIGN-IN SHEET

NAME	AFFILIATION	EMAIL
Nick Engstrom	Michels	nengstro@michels.us
Matt Zupetz	Rachel Contracting	mzupetz@rachelcontracting.com
MIKE Friend	Rachel	mfriender@rachelcontracting.com
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Darren Lent	Lent, Excavation	darrentlent@gmail.com
Alanna Dodaro	KTM	alanna@ktmcompanies.net
Andy Dammer	Veit	Andy.Dammer@veitus.com
Jon Brostowitz	Veit	Jon.Brostowitz@veitus.com
MIKE LEBEAU	CITY OF DULUTH	MLEBEAU@DULUTHMN.GOV
LISA MACMANUS	CITY OF DULUTH	LMACMANUS@DULUTHMN.GOV
Bubbe McLoughlin	HMI	Bubbe@HMI-Duluth.com
ZAC MORRIS	AMI	ZAC.MORRIS@AMIENGINEERS.COM

BID FORM (REVISED PER ADDENDUM #1)

NOTE: All costs are to be considered in-place costs. Include cost for all materials, hardware, shipping, fabrication, labor, equipment, insurance, bonds, permits state and local taxes, overhead and profit to properly install items listed under each system.

System	Item	Type	Unit	Qty	Cost per Unit	TOTAL COST
BASE BID ITEMS - SHORELINE REHABILITATION						
01	Mob/Demob	Mobilization/Demobilization (Assuming both sites are completed as one project)	LS	1		
02	Erosion & Sediment Control	Erosion and Sediment Control including all BMPs, watering, and native seed and biodegradable ECB as required	LS	1		
03	Traffic Control & Signage	Traffic Control & Signage to protect and safely detour public	LS	1		
04	Excavation & Disposal	Excavate existing soils and haul off concrete debris greater than 6-inch diameter	LS	1		
05	Site Restoration	Cleanup of project site	LS	1		
06	Haul Roads	Maintenance and replacement of haul roads	LS	1		
07	Bonds	Performance and Payment Bonds	LS	1		
08	4' Black Vinyl Chain-link Fence	Includes concrete ribbon curb	LF	166		
09	Salvage and Reinstall Boardwalk	Salvaging wooden boardwalk and stockpiling on site	LF	166		
10	Salvaged Stone	Salvaging onsite stone materials, sorting by size, and stockpiling. Haul rejected materials to disposal location	LS	1		
11	Place Salvaged Stone - Armor	Place Salvaged Stone - Armor	CY	270		
12	Place Salvaged Stone - Filter	Place Salvaged Stone - Filter	CY	670		
13	Place Salvaged Stone - Toe	Reinstall Large Salvaged Stones and Barrier Stones (as toe stones)	EA	50		
14	New Armor Stone	Furnish and Install New Armor Stones	TN	250		
15	New Toe Stone	Furnish and Install New Toe Stones	TN	280		
16	Place Salvaged Stone - Riprap	Placement of Salvaged Riprap at top of slope	CY	300		
17	Geotextile	High Strength Non-woven Geotextile (Propex Geotex 1600)	SY	800		
18	Concrete Retaining Wall	Reinforced Concrete Retaining Wall	LF	184		
19	Retaining Wall Base Material	Furnish and Install Ballast Stone topped with 3/4" crushed stone	TN	150		
20	Temporary Shoring	Temporary shoring for construction	LS	1		
ALTERNATE BID ITEMS - SHORELINE REHABILITATION						
ALT 01	Concrete Retaining Wall	Deduction for reducing concrete retaining wall length between 1 LF to 50 LF	LF	-1 to -50		
ALT 02	Lot D furnished Stone	Provide stone from Lot D (filter stone and some select armor stone)	TN	1 to 100		
ALT 03	Lot D furnished Stone	Provide stone from Lot D (filter stone and some select armor stone)	TN	100 to 500		
PROJECT TOTALS						
					BASE BID TOTAL	\$ -
					TOTAL WITH SELECTED ALTERNATES	\$ -