Gogebic County
Board of County Road Commissioners

ADDENDUM NO. 1

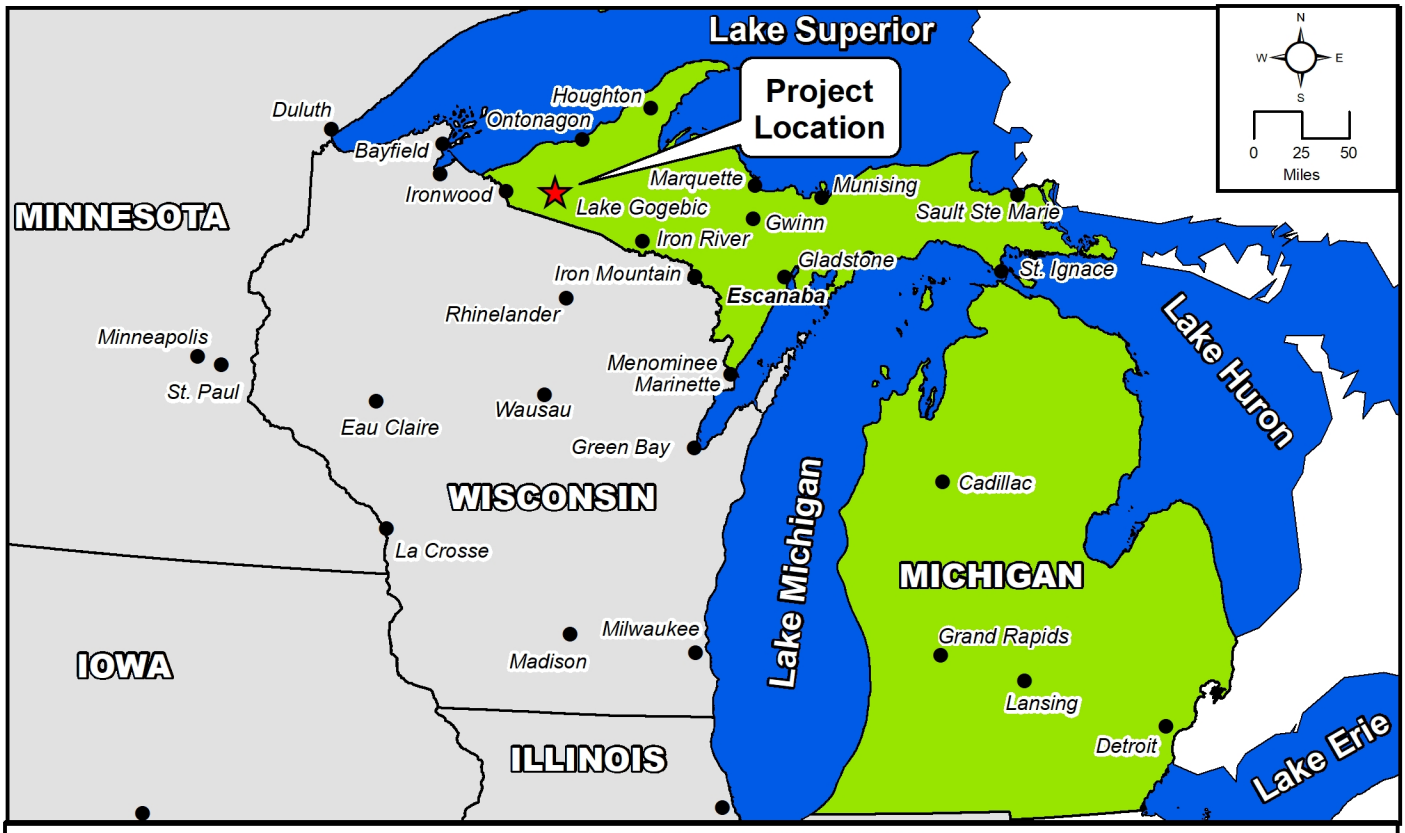
June 25, 2025

TO ALL PROSPECTIVE BIDDERS:

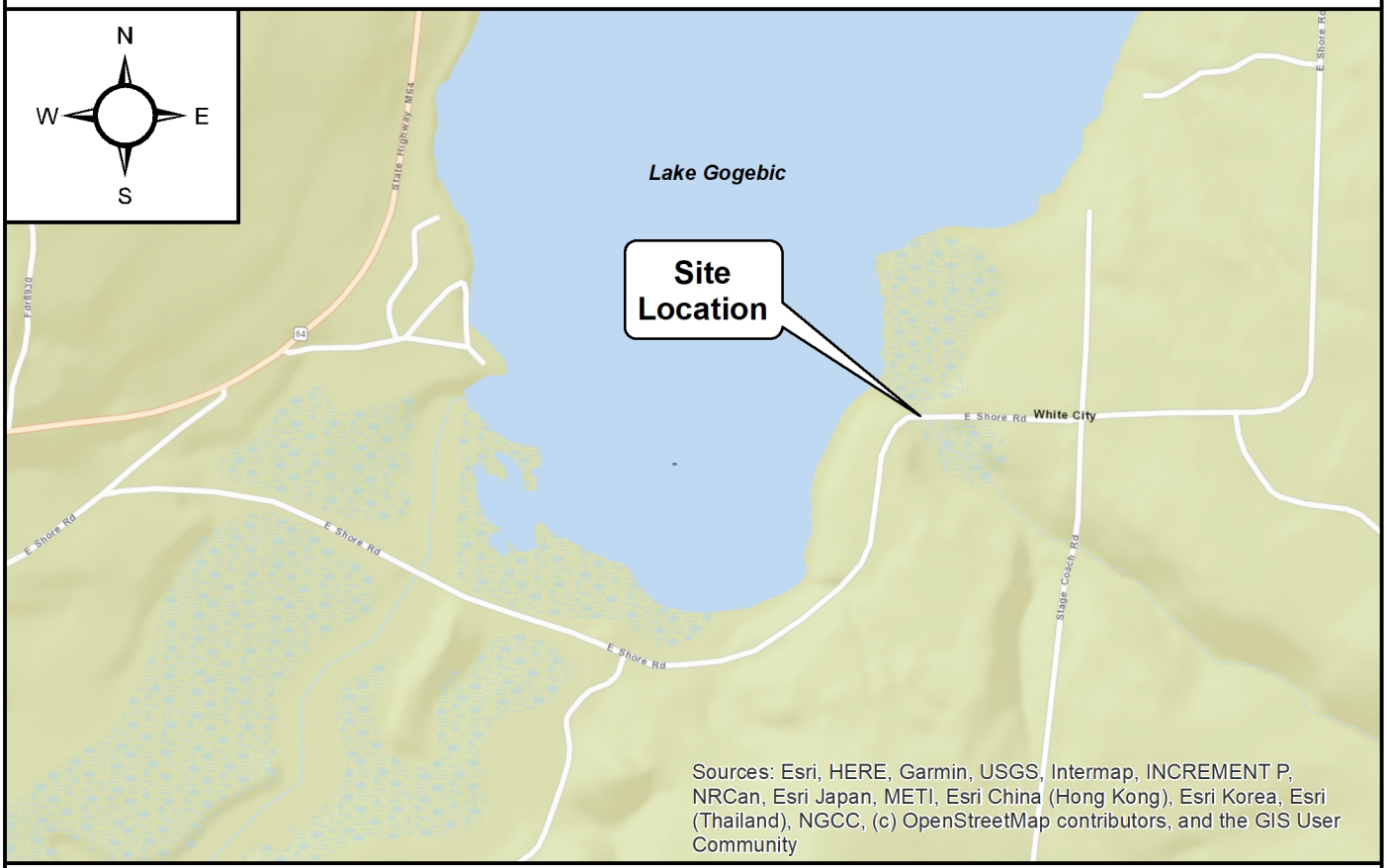
Since the issuance of the Bid Documents, information has been disclosed which requires the following clarifications or modifications be made to the Bid Documents as described in this Addendum No. 1 for the 2025 Countywide Culvert Installation Services Bid:

1. Soil borings for culvert ES-5
2. MDOT Permit for detour route signage

The Bidder shall acknowledge the receipt of Addendum No. 1 on their Bid Form. This addenda shall replace the 6 pages of the Bid description of work and bid form. The rest of the documents in the original bidding document not modified herein still apply.



PROJECT LOCATION MAP



SITE LOCATION MAP

COLEMAN ENGINEERING COMPANY
635 CIRCLE DRIVE - IRON MOUNTAIN, MICHIGAN 49801 (906) 774-3440
200 EAST AYER STREET - IRONWOOD, MICHIGAN 49938 (906) 932-5048
Web: www.coleman-engineering.com
Email: ironmountain@coleman-engineering.com

Gogebic County Road Commission
E. Shore Road
Marenisco Township, Michigan

Project No:	GIS File:
230853	WIW_WIQ.mxd
Map Date:	Figure No:
9/13/23	Fig 1

AS-DRILLED SOIL BORING / MONITORING WELL LOCATION MAP

COLEMAN ENGINEERING COMPANY
635 CIRCLE DRIVE • IRON MOUNTAIN, MI 49801 • PHONE: 906-774-3440
200 EAST AYER STREET • IRONWOOD, MI 49938 • PHONE: 906-932-5048

Gogebic County Road Commission
E. Shore Road
Marensico Township, Michigan

Project No:	GIS File:
230853	BORELOC.mxd
Map Date:	Figure No:
9/13/23	Fig 2

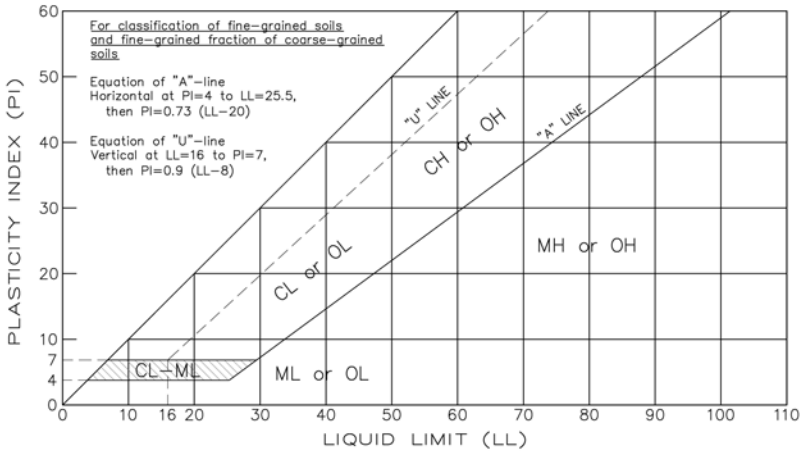
COLEMAN ENGINEERING COMPANY

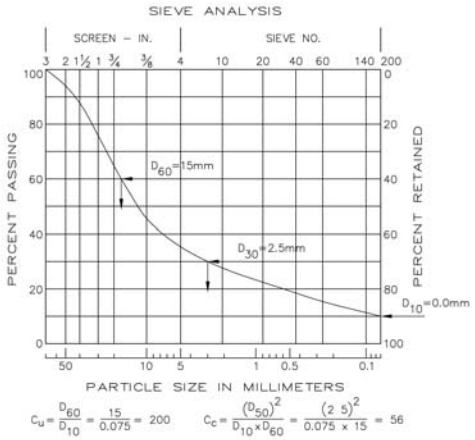
635 Circle Drive
Iron Mountain, Michigan 49801

CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES
ASTM Designation: D-2487 – 83
(Based on Unified Soil Classification System)

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests[A]				Soil Classification	
				Group Symbol	Group Name[B]
Coarse-Grained Soils More than 50 % retained on No. 200 sieve	Gravels More than 50 % of coarse fraction retained on No. 4 sieve	Clean Gravels Less than 5 % fines[C]	$Cu \geq 4$ and $1 \leq Cc \leq 3$ [E]	GW	Well-graded gravel [F]
			$Cu < 4$ and/or $1 > Cc > 3$[E]	GP	Poorly graded gravel[F]
		Gravels with Fines more than 12 % fines[C]	Fines classify as ML or MH	GM	Silty gravel[F,G,H]
			Fines classify as CL or CH	GC	Clayey gravel[F,G,H]
	Sands 50 % or more of coarse fraction passes No. 4 sieve	Clean Sands Less than 5 % fines[D]	$Cu \geq 6$ and $1 \leq Cc \leq 3$[E]	SW	Well-graded sand
			$Cu < 6$ and/or $1 > Cc > 3$[E]	SP	Poorly graded sand [I]
		Sands with Fines More than 12 % fines[D]	Fines classify as ML or MH	SM	Silty sand[G,H,J]
			Fines classify as CL or CH	SC	Clayey sand[G,H,I]
Fine-Grained Soils 50 % or more passes the No. 200 sieve	Silts and Clays Liquid limit less than 50	inorganic	Pl > 7 and plots on or above "A" line[J]	CL	Lean clay[K,L,M]
			Pl < 4 or plots below "A" line[J]	ML	Silt[K,L,M]
		organic	$\frac{\text{Liquid limit – oven dried}}{\text{Liquid limit – not dried}} < 0.75$	OL	Organic clay[K,L,M,N]
					Organic silt[K,L,M,O]
	Silts and Clays Liquid limit 50 or more	inorganic	Pl plots on or above "A" line	CH	Fat clay[K,L,M]
			Pl plots below "A" line	MH	Elastic silt[K,L,M]
		organic	$\frac{\text{Liquid limit – oven dried}}{\text{Liquid limit – not dried}} < 0.75$	OH	Organic clay[K,L,M,P]
					Organic silt[K,L,M,Q]
Highly organic soils	Primarily organic matter, dark in color, and organic odor			PT	Peat

[A] Based on the material passing the 3-in. (75-mm) sieve.
[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
[C] Gravels with 5 to 12 % fines require dual symbols:
GW-GM well-graded gravel with silt
GW-GC well-graded gravel with clay
GP-GM poorly graded gravel with silt
GP-GC poorly graded gravel with clay
[D] Sands with 5 to 12 % fines require dual symbols:
SW-SM well-graded sand with silt
SW-SC well-graded sand with clay
SP-SM poorly graded sand with silt
SP-SC poorly graded sand with clay
[E] $Cu = D_{60}/D_{10} \quad \frac{(D_{30})^2}{D_{10} \times D_{60}}$
[F] If soils contains ≥ 15 % sand, add "with sand" to group name.
[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.
[H] If fines are organic, add "with organic fines" to group name.
[I] If soil contains ≥ 15 % gravel, add "with gravel" to group name.
[J] If Atterberg limits plot in hatched area, soil is a CL-ML, silty clay.
[K] If soil contains 15 to 29 % plus No. 200, add "with sand" or "with gravel", whichever is predominant.
[L] If soil contains ≥ 30 % plus No. 200, predominantly sand, add "sandy" to group name.
[M] If soil contains ≥ 30 % plus No. 200, predominately gravel, add "gravelly" to group name.
[N] Pl ≥ 4 and plots on or above "A" line.
[O] Pl < 4 or plots below "A" line.
[P] Pl plots on or above "A" line.
[Q] Pl plots below "A" line.





SOIL EXPLORATION
GENERAL NOTES AND LEGEND

COLEMAN ENGINEERING COMPANY
635 CIRCLE DRIVE - IRON MOUNTAIN, MICHIGAN 49801 (906) 774-3440
200 EAST AYER STREET - IRONWOOD, MICHIGAN 49938 (906) 932-5048

DESCRIPTIVE SOIL CLASSIFICATION
ASTM D2487 / 2488

GRAINSIZE TERMINOLOGY

Soil Fraction	Particle Size	U.S. Standard Sieve Size
Boulders	Larger than 12"	Larger than 12"
Cobbles	3" to 12"	3" to 12"
Gravel: Coarse	3/4" to 3"	3/4" to 3"
Fine	4.75mm to 3/4"	#4 to 3/4"
Sand: Coarse	2.00mm to 4.75mm	#10 to #4
Medium	0.42mm to 2.00mm	#40 to #10
Fine	0.075mm to 0.42mm	#200 to #40
Silt	0.005mm to 0.075mm	Smaller than #200
Clay	Smaller than 0.005mm	Smaller than #200

GENERAL TERMINOLOGY

Physical Characteristics
Color, moisture, grain shape, fineness, etc.
Major Constituents
Clay, silt, sand, gravel
Structure
Laminated, varved, fibrous, stratified, cemented, fissured, etc.
Geologic Origin
Glacial, alluvial, eolian, residual, etc.

RELATIVE DENSITY

Term	"N" Value
Very Loose	0–4 BPF
Loose	5–10 BPF
Medium Dense	11–30 BPF
Dense	31–50 BPF
Very Dense	Over 50 BPF

RELATIVE PROPORTIONS OF COHESIONLESS SOILS

Proportional Terms	Defining Range By Percentages of Weight
Trace	0%–5%
With	5%–12%
–Y (ie. silty, sandy)	12%–50%

CONSISTENCY

Term	"N"–value	qa (tsf)
Very Soft	0–1 BPF	0.0 to 0.25
Soft	1–4 BPF	0.25 to 0.50
Medium	5–8 BPF	0.50 to 1.0
Stiff	8–16 BPF	1.0 to 2.0
Very Stiff	17–31 BPF	2.0 to 4.0
Hard	Over 32 BPF	Over 4.0

ORGANIC CONTENT BY COMBUSTION METHOD

Soil Description	Loss on Ignition
Non–Organic	Less than 4%
Organic Silt / Clay	4% – 12%
Sedimentary Peat	12% – 50%
Fibrous and Woody Peat	More than 50%

PLASTICITY

Term	Plastic Index
None to Slight	0–4
Slight	5–7
Medium	8–22
High to Very High	Over 22

The penetration resistance, N–value, is the summation of the number of blows required to effect two successive 6" penetrations of the 2" split–barrel sampler or blows per foot (BPF). The sampler is typically driven 18" with a 140 lb. weight falling 30" and is seated to a depth of 6" before commencing the standard penetration test. When driven 24" the "N" is the sum of the blow of the second and third 6" increment.

SYMBOLS
DRILLING AND SAMPLING

RB – Roller Bit
RC – Rock Coring
RQD – Rock Quality Designator
CW – Clear Water
DM – Drilling Mud
HSA – Hollow Stem Auger
SSA – Solid Stem Auger
HA – Hand Auger
SPT – Standard Penetration Test
2SS – 2" Diameter Split–Barrel Sample
3SS – 3" Diameter Split–Barrel Sample
2ST – 2" Diameter Shelby Tube Sample
3ST – 3" Diameter Shelby Tube Sample
PS – 3" Diameter Piston Tube Sample
AS – Auger Sample
WS – Wash Sample
NR – No Recovery
VS – Vane Shear Test
T – Torvane Shear Test
BS – Bag Sample
GS – Grab Sample
q_a – Penetrometer Reading, tsf
q_u – Unconfined Strength, tsf
WOH – Weight Of Hammer
WOR – Weight Of Rods

LABORATORY TEST

W – Moisture Content, %
LL – Liquid Limit, %
PL – Plastic Limit, %
SL – Shrinkage Limit, %
LI – Loss on Ignition, %
DD – Dry Density, psf

WATER LEVEL MEASUREMENT

▽ Water Level During Drilling
▼ Water Level After Drilling
▼ Water Level at Time Shown 1
▼ Water Level at Time Shown 2
▼ Water Level at Time Shown 3
▼ Water Level at Time Shown 4
NW – No Water Encountered
BCR – Before Casing Removal
ACR – After Casing Removal

NOTE: Water level measurements shown on the boring logs represent conditions at the time indicated and may not reflect static levels, especially in cohesive soils.

Revised 10/7/21

COLEMAN ENGINEERING COMPANY
635 CIRCLE DRIVE
IRON MOUNTAIN, MICHIGAN 49801
Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 230853-ES.GPJ

PROJECT: E. Shore Road — BORING NO.: B-1

CLIENT: Gogebic County Road Commission — 1 OF 1

BORING LOCATION: As-marked by GPS 46.409394653374° N., -89.540480154445° W. - See boring loc. dwg. — ELEV.: 98.80 +/-

RIG TYPE: Diedrich D-70 ATV — DRILL CREW: D. Ebidon / M. Sovey

DRILLING METHOD: 4-1/4" Hollow Stem Auger — BORING DEPTH: 16.5

DATE STARTED: 9/7/23 — DATE COMPLETED: 9/7/23 — REVIEWED BY: J. Kacynski — DATE: 9/13/23

HOLE CLOSURE: Bentonite Chips / Native Soil Mix 16.5' - 0.67' & Asphalt Patch 0.67' - 0.0'

SAMPLE NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS: +4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q_a (tsf) q_u (tsf)
1	9-8-11 (19)	1.5		0	ASPHALT PAVEMENT - 2" (0.17')		98.8	4-1/4" Hollow Stem Auger 2" SPT Sampling 1403 wt., 30" drop Auto Hammer					
				1	AGGREGATE BASE COURSE - 7.5" (0.79') (POSSIBLE FILL) SILT, reddish brown, trace gravel and sand, moist								
2	5-4-4 (8)	1.5		2	...no gravel, slightly cohesive								
				3									
				4									
3	3-2-2 (4)	1.5		5			93.8						
				6	± 6.0' (ML) SILT, reddish brown, with roots and decaying wood fragments, trace sand, cohesive, moist, soft			Driller's note: Cobbles and / or bouldrs 6.5' to 14.0'					
				7	(Glacial Till) ± 7.5'								
4	5-8-4 (12)	1.5		8	(SP-SM) POORLY GRADED SAND, reddish brown, fine to medium, with silt, trace gravel, moist, medium dense								
				9									
5	5-5-9 (14)	1.5		10	...trace roots and clay, damp		88.8						
				11									
				12									
				13									
				14		▼							
				15	...dark brown, no gravel or clay, slightly cohesive, wet, loose	▽	83.8	Driller's note: Samples wet 15.0' to 16.5'					
6	3-4-5 (9)	1.1		16	(Glacial Till) 16.5'								
				17	End of Boring								
				18									
				19									
				20			78.8						

-AS-Auger Sample
-BS-Bag Sample
-RC-Rock-Core
-MC-Macrocore
-PS-Piston Tube
-2SS-2" Split Spoon
-3SS-3" Split Spoon
-2ST-2" Shelby Tube
-3ST-3" Shelby Tube

▽ while drilling 15.0 ▼ after drilling 14.3 ▼ after hours

BORING NO.: B-1

MDOT
Michigan Department of Transportation

INDIVIDUAL CONSTRUCTION PERMIT

For Operations within State Highway Right-of-Way

Issued To:
Gogebic County Road Commission

200 NORTH MOORE STREET, COURTHOUSE ANNE
BESSEMER MI 49911

Contact:
Phil Strong
906-667-0233(O) 906-364-2291(Cell)
pstrong@gogebic.gov

Secondary Contact:
Andy McRae
906-667-0233(O)
amcrae@gogebic.gov

Permit Number: **27023-111178-25-061825**
Permit Type: **Individual Application**
Permit Fee:
Effective Date: Jun 18, 2025 to Jun 18, 2026
Bond Numbers:
Liability Insurance Expiration Date:

THIS PERMIT IS VALID ONLY FOR THE FOLLOWING PROPOSED OPERATIONS:

PURPOSE:

Detour route for East Shore Road traffic during road closure need.

STATE ROUTE: M-64 **TOWNSHIP OF:** Marenisco **COUNTY:** Gogebic County

NEAREST INTERSECTION:	SIDE OF ROAD:	DISTANCE TO NEAREST INTERSECTION: (in feet)	DIRECTION TO NEAREST INTERECTION:
East Shore Road	N S	500.00	West

CONTROL SECTION:	MILE POINT FROM:	MILE POINT TO:	LOCATION: LEFT	MEDIAN	RIGHT	TRANSVERSE
27023	0.000	7.490	X		X	

REQUISITION NUMBER:	WORK ORDER NUMBER:	MDOT JOB NUMBER:	ORG JOB NUMBER:

27023-111178-25-061825 Issued To:Gogebic County Road Commission

This permit is incomplete without "General Conditions and Supplemental Specifications"

I certify that I accept the following:

1. I am the legal owner of this property or facility, the owner's authorized representative, or have statutory authority to work within state highway Right-of-Way.
2. Commencement of work set forth in the permit application constitutes acceptance of the permit as issued.
3. Failure to object, ***within ten (10) days*** to the permit as issued constitutes acceptance of the permit as issued.
4. If this permit is accepted by either of the above methods, I will comply with the provisions of the permit.
5. I agree that Advance Notice for Permitted Activities for shall be submitted **5 days prior** to the commencement of the proposed work.
   I agree that Advance Notice for Permitted Utility Tree Trimming and Tree Removal Activities shall be submitted **15 days prior** to the commencement of the proposed work for an annual permit.

CAUTION

Work shall NOT begin until the Advance Notice has been approved.

Failure to submit the advance notice may result in a Stop Work Order.

Gogebic County Road Commission	**Jeremy Nocerini** **MDOT**	**June 18, 2025** **Approved Date**
TSC Contact Info	**Crystal Falls TS**	**(906) 875-6644**

THE STANDARD ATTACHMENTS, ATTACHMENTS AND SPECIAL CONDITIONS MARKED BELOW ARE A PART OF THIS PERMIT.

STANDARD ATTACHMENTS:

1 Mobility Flowchart for Permit Activities (2204C)
2 ENVIRONMENTAL REQUIREMENTS FORACTIVITIES WITHIN MDOT RIGHT-OF-WAY (2486)
3 Bat Nonfederal External Map 6-13-23 (Bat Advisory)
4 Historical and Archaeological Discoveries During Construction Operations Updated 03/22 (Const. Advisory H
5 General Conditions (General Conditions)
6 MDOT UNDERGROUND INFRASTRUCTURE STAKING REQUEST FORM (1-25) (5300)

ADDITIONAL ATTACHMENTS:

1 2025 GCRC E Shore Road Culverts detour plan.pdf
2 2022-04-11 Gogebic CRC.pdf
3 Additional_Work Zone Traffic Control.pdf
4 Permit #111178 ROW Sheet 46.pdf
5 Soil & Sed Control (R-96-E).pdf
6 Permit #111178 ROW Sheet 43.pdf
7 Permit #111178 Special Conditions-Gogebic CRC.pdf

27023-111178-25-061825 Issued To:Gogebic County Road Commission

AMENDMENT ATTACHMENTS:

SPECIAL CONDITIONS:

1 The Department of Transportation does not, by issuance of this permit, assume any liability claims or maintenance costs resulting from the Gogebic County Road Commission facility placed by this permit. The Department reserves the right to require removal of all or any portion of this facility as needed for highway maintenance or construction purposes without replacement or reimbursement of any costs incurred by the permitted or other party. The permitted will defend, indemnify and hold harmless the Department for any claims whatsoever resulting from the construction or the removal of the authorized by this permit.

2 All disturbed areas within the right of way shall be top-soiled, seeded and mulched to match existing areas per current MDOT standards and specifications.

3 Attention is directed to the referenced "attachments" that specify several items of importance associated with this MDOT permit.

4 All work within MDOT ROW shall meet all requirements of the current Department Standard Specifications for Construction & the Supplemental Specifications incorporated as a part of this permit in addition to complying with all respective industry standards established for utility installation.

5 MDOT is not part of the Miss Dig system. Fill out the attached 5300 form to arrange for the staking of MDOT underground facilities related to ITS, Traffic Signals, Roadway Lighting and other Electrical. Email the completed form and a set of plans at least 5 work days prior to the start date of digging work to MDOT-ITS-Staking-Superior@michigan.gov

DETOUR SIGNS

1
E SHORE RD
D3-1
36" x 12"
DETOUR AHEAD
W20-2
36" x 36"

2
E SHORE RD
D3-1
36" x 12"
DETOUR
M4-9kL
30" x 30"

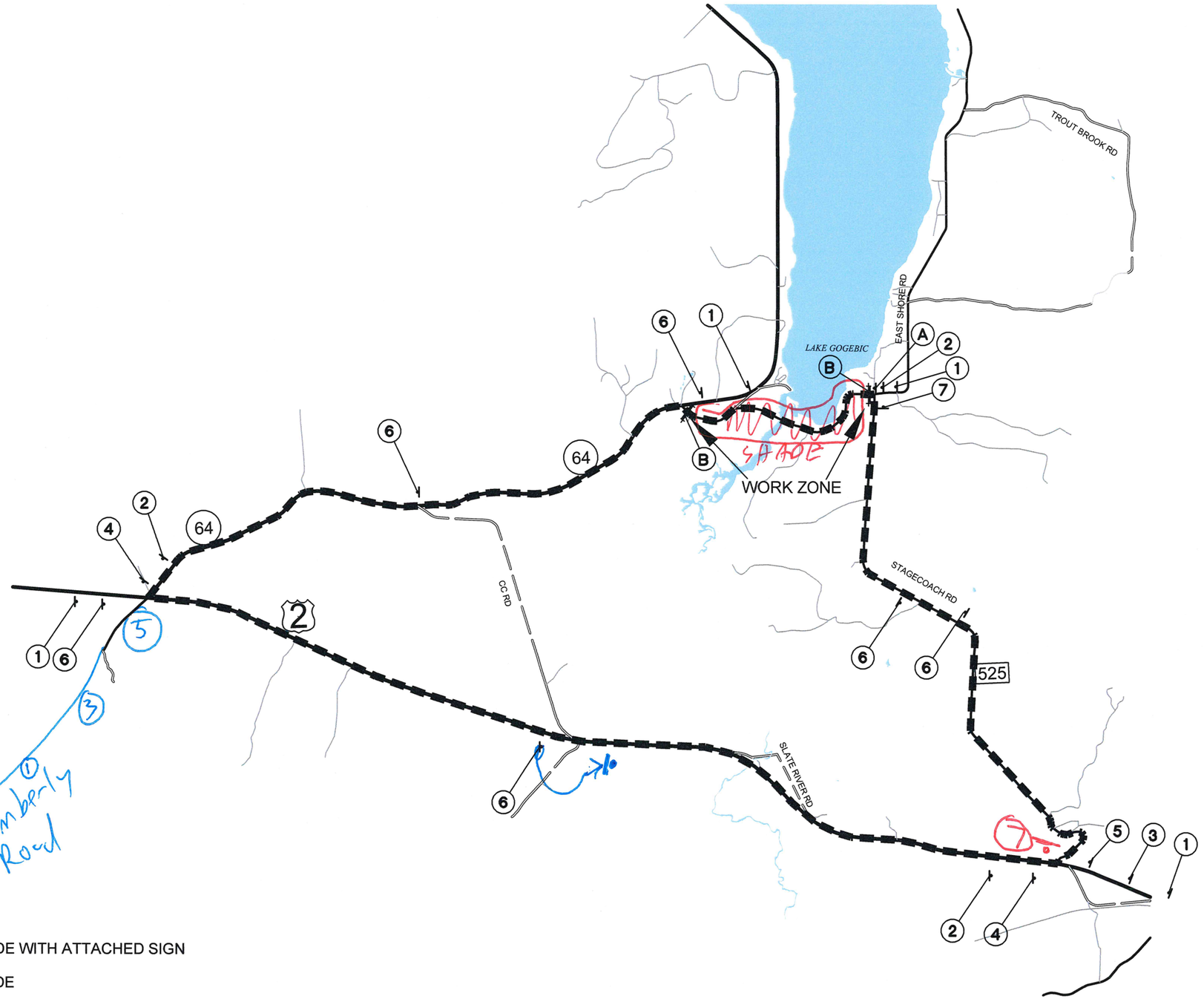
3
E SHORE RD
D3-1
36" x 12"
DETOUR
M4-9kR
30" x 30"

4
E SHORE RD
D3-1
36" x 12"
DETOUR
M4-9L
30" x 24"

5
E SHORE RD
D3-1
36" x 12"
DETOUR
M4-9R
30" x 24"

6
E SHORE RD
D3-1
36" x 12"
DETOUR
M4-9j
30" x 24"

7
E SHORE RD
D3-1
36" x 12"
END DETOUR
M4-8a
24" x 18"



N

WORK ZONE SIGNS

A
ROAD CLOSED AHEAD
W20-3
36" x 36"

B
ROAD CLOSED
R11-2
48" x 30"

ON TYPE III BARRICADE

LEGEND

(X) SIGN NUMBER

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE III BARRICADE

SIGN ON PERMANENT SUPPORT

DRAWN BY: AMM	DETOUR ROUTE, EAST SHORE ROAD	STATE PROJECT NO.	STATE JOB NO.	SHEET NO.
SCALE: NONE	GOGEBIC COUNTY ROAD COMMISSION	·	·	1 OF 1