

**Purchasing Division** Finance Department

Room 120 411 West First Street Duluth, Minnesota 55802 218-730-5340

purchasing@duluthmn.gov

#### Addendum 1 Solicitation 23-99414 Brighton Beach Resiliency Plan – Landscape & Shoreline Restoration Work: Phase 2

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

Please see attached document for changes to the attached documents

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

Posted: May 25, 2023



#### ADDENDUM NO. 01, MAY 25, 2023

RE: Brighton Beach Resiliency Plan – Landscape & Shoreline Restoration Work: Phase 2

LHB Project No. 210260

To: All Planholders

From: LHB, Inc.

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated May 5, 2023. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disgualification.

This Addendum consists of 3 pages and the following attachment (s):

**General** Pre-bid Meeting Attendance Sheet Pre-bid Meeting Agenda

Specifications Div 00 – 01: 01 2200

#### Drawings

Civil: C001, C002, C003, C004, C101, C301, & C401 Shoreline Restoration: CH2.0.0

#### General

- 1. A copy of the attendance sheet(s) and agenda from the pre-bid meeting held on May 17, 2023 is attached for reference.
- 2. Clarification on the on-site excess soil material:
  - a. Base Bid shall include hauling all on-site excess soil material off-site in its entirety.
  - Estimated total of on-site excess soil material is +/- <u>3,225 CY</u> but may vary due to unforeseen site conditions. Soil quantity breakdown is below:
    - i. Three (3) soil stockpiles are currently on site from Phase 1 work. According to drone measurements, the estimated quantity of those three stockpiles is +/- 2,210 CY.
    - ii. There will be an additional +/- 1,015 CY of soil cut from Area A during Phase 2 work (see Addendum Sheet CH2.0.0 for specifics).
  - c. Please provide a Unit Price for hauling excess material off-site for anything over or under the above estimated quantity.
- 3. The Bid Form has been replaced in Bid Express to include a Unit Price for Excess Soil Material Removal.

ADDENDUM NO. 01: BRIGHTON BEACH RESILIENCY PLAN – LANDSCAPE & SHORELINE RESTORATION WORK: PHASE 2 PAGE 2 MAY 25, 2023

#### **Questions and Answers from Pre-bid Meeting**

- Q1. Is a shoreline permit required from the City?
- A1. Yes, a shoreline permit is required from the City and will be the responsibility of the General Contractor to obtain. A sediment and erosion control/grading permit will also be required from the City and is the responsibility of the General Contractor to obtain. A DNR permit was already obtained during Phase 1 and is still valid. The DNR permit information will be provided to the awarded GC.
- Q2. Can excess materials remain on site?
- A2. No, the General Contractor is responsible for hauling all excess soil material off-site. See above clarification in the General section for more specifics on quantities.
- Q3. Regarding the available soil stockpiles on-site, how much is there?
- A3. Total estimated excess soil material is +/- 3,225 CY. See above clarification in the General section for more specifics on quantities.
- **Q4.** Regarding the available stone stockpiles on-site, how much is there and how much will Phase 2 work need?
- A3. Phase 2 will need approximately +/- 175 CY salvaged stones for the restoration boulder edger and for nature play elements. There will be approximately 175 CY of stockpiled stones on-site to be re-used for Phase 2 work. The rest of the stone stockpiles will be used up during the completion of Phase 1 State Disaster restoration work and prior to Phase 2.
- **Q4.** Is the General Contractor responsible for transport of Owner supplied stone from City Lot D?
- A4. See above. No stone will be needed from City Lot D for Phase 2 work.
- Q5. Can you clarify the tree removal work in Areas C & D?
- A5. All felled trees need to be removed by the General Contractor. In Areas C & D, cut stumps flush to ground but do not grub or disturb earth in the wooded areas. Stumps in all other designated lawn areas will need to be grubbed and removed in their entirety.
- Q6. Can you clarify roles if additional tree removal is required?
- A6. The General Contractor will be responsible for any additional tree(s) that need to be removed beyond what has already been felled by the City.
- Q7. In lieu of a haul road, could access to the site be from a barge?
- A7. The haul road will be required to complete Phase 1 work and for other access needs. However, if the General Contractor would like to use a barge, that may be an acceptable way to access the site. Please note that for barge work along Lake Superior, contractors must submit a Certificate of Documentation verifying that their company can use a barge on Lake Superior.
- Q8. Please clarify what the requirements are for the haul road removals?
- A8. Remove in-place haul road and any material brought in for haul road extension. Restore all areas disturbed by in-place haul road and haul road extension per surfacing, layout, and restoration plans.
- Q10. Please clarify what is the remaining landscaping work from Phase 1?
- A10. Restoration Areas C, D, G & H still need to be planted by the Phase 1 Landscape Subcontractor. Most of the planting installation *should* be complete prior to Phase 2 work, however, the General Contractor will be responsible for coordination with Phase 1 General Contractor and Landscape

Subcontractor for any site access, remaining planting work, and all ongoing maintenance of the restoration areas.

#### **Changes to Specifications**

- 4. Replace Section 01 1000 Summary in its entirety.
- 5. Add Section 01 2200 Unit Prices in its entirety.

#### **Changes to Drawings**

- 6. Replace Sheet C001 in its entirety.
- 7. Add Sheet C002 in its entirety.
- 8. Add Sheet C003 in its entirety.
- 9. Replace Sheet C004 in its entirety.
- 10. Replace Sheet C101 in its entirety.
- 11. Replace Sheet C301 in its entirety.
- 12. Replace Sheet C401 in its entirety.
- 13. Replace Sheet CH2.0.0 in its entirety.

#### **END OF ADDENDUM NO. 01**



#### **PRE-BID MEETING AGENDA**

#### **Brighton Beach Resiliency Plan – Shoreline Restoration Work: Phase 2**

**City of Duluth** 

Wednesday, May 17, 2023 at 2:00 PM, Brighton Beach

- 1. Introductions
  - a. Pre-Bid Meeting, please sign in.
  - b. Owner
  - c. Design Team
- 2. Summary of Work
  - a. Project Scope
  - b. Phasing
  - c. Alternates
    - i. Fire Building Roof Restoration
    - ii. Additional Trees
    - iii. Refurbish Picnic Shelter
  - d. Owner provided materials or work.
  - e. Work by others
  - f. Owner occupancy during construction
    - i. Owner intends to keep the existing lakewalk trail open during the entire construction period. If required, the trail will be temporarily closed at necessary locations for construction crossing. Safety fencing will be required to keep trail users out of the construction limits, as indicated on Drawings.
  - g. Special project goals, requirements, or certifications
  - h. Permits secured and paid for by Owner
    - i. DNR and Federal Permits
  - i. Permits secured and paid for by Contractor
    - i. City grading/stormwater permits.
    - ii. State stormwater permits.
    - iii. SWPPP
  - j. Special Inspections and Testing
    - i. Secured by Owner
    - ii. Contracted with the Owner
    - iii. Paid by Owner
  - k. Hazardous Materials
- 3. Instructions to Bidders
  - a. Document Availability:
    - i. Documents are available to download for free at <u>www.bidexpress.com</u> and have been sent to the Minnesota and Wisconsin Builder's Exchanges.
  - b. Bid Date, Time, and Place
    - i. Bid Date and Time: Wednesday, May 31, 2023 at 2:00 PM CST
    - ii. Submit bids to:

- 1) All bids must be submitted electronically through <u>www.bidexpress.com</u>.
- iii. Bids will be publicly opened and read aloud. A link to the bid opening is available at <a href="https://www.duluthmn.gov/purchasing/bids-request-for-proposals/">https://www.duluthmn.gov/purchasing/bids-request-for-proposals/</a>
- c. Insurance
  - i. Bid Bond or Surety
  - ii. Performance and Payment Bonds
  - iii. Insurance Requirements
- d. Prevailing wages are required and a project labor agreement will be required for projects over \$150k.
- e. Communications
  - i. Questions should be directed to purchasing@duluthmn.gov
    - 1) Email: purchasing@duluthmn.gov
    - 2) Phone calls are not acceptable.
    - 3) Last day for questions is close of business Tuesday, May 23, 2023.
  - ii. Substitution Requests must be submitted using the form provided in the spec with supporting information attached.
    - 1) Substitution Request forms are due Wednesday, May 24, 2023
  - iii. Response by Addendum: Acknowledge all addenda on the Bid Form provided.
- 4. Agreement Forms and Procedures
  - a. Applications for Payment
    - i. Partial lien release waivers
    - ii. Certified Payroll Reports
    - iii. Affidavits and Certificates of Insurance for off-site stored materials
- 5. Construction Schedule
  - a. Construction Start Date: Coordinate date with the Owner.
  - b. Substantial Completion Date: September 30, 2023
  - c. Final Completion Date: November 30, 2023
    - i. Liquidated Damages? No daily charge; will be charged actual damages
  - d. Contractor to establish a master schedule to be provided to Owner and Architect 30 days after letter of intent or Agreement with Owner.
  - e. Construction progress meetings held every other week.
- 6. Platform for Distribution of Project Information
  - a. Electronic form via Newforma Info Exchange or Owner preferred method.
- 7. Temporary Facilities
  - a. Security Barriers
  - b. Restrooms
  - c. Utilities
  - d. Staging
  - e. Access Control
  - f. Site Safety
  - g. Dumpsters
  - h. Parking
- 8. Closeout Procedures

PREBID MEETING AGENDA: BRIGHTON BEACH RESILIENCY PLAN – SHORELINE RESTORATION WORK: PHASE I AUGUST 23, 2022

- Forms a.
  - i. Consent of Surety
  - ii. Contractor's Affidavit
  - iii. IC-134
- b. **O&M** Manuals
- c. Warranties and Bonds
- d. As-Built set of Documents
- 9. Other / Questions
- 10. Tour Existing Conditions

#### c: LHB Project No. 210260

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#### **MEETING ATTENDANCE SHEET BRIGHTON BEACH RESILIENCY PLAN – SHORELINE RESTORATION** WORK: PHASE 2

#### Pre-Bid Meeting: Wednesday, May 17, 2023 2:00 PM

LHB		-
Web Works	218 721 6693	BEIAN CWRONWOEKS 4U. com
ANJ	-	
Rachel Contracting	213-355-0118	chelanger à rachelontracting. L man San construction inc. c
Surran Construction	763.420-2140	Jan@sarrancenstructioninc c
Michels Construction	920-344-9412	jbischoff@michels.us
Northland Constan	by 218-355-1363	aaron. brokkman @
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#### SECTION 01 1000 SUMMARY

#### PART 1 GENERAL

#### 1.01 PROJECT

- A. Project Name: 210260 Brighton Beach Resiliency Plan Landscape and Shoreline Restoration Work Phase 2
- B. Owner's Name: City of Duluth, Parks & Recreation Department.
- C. Landscape Architect & Engineer: Name: LHB, Inc.
- D. The Project consists of coastal shoreline restoration work with incidental removals, erosion control, stormwater management, vegetation re-establishment, as well as new park amenities and site furnishings. The shoreline work primarily includes earthwork modifications to regrade damaged/eroded areas and the placement of large on-site armored stone and vegetated riprap along the beach enbankment for storm protection. Removal of existing vegetation, rock, bituminous and gravel surfacing will need to occur to accomodate the shoreline restoration, and will also require hauling excess soil material off-site. A series of beach access points and drainage ways intersect the shoreline restoration area and will include detailed grading for swales and greenspace areas, and installation of drainage rock, large stone steppers, surface aggregate and landscape boulders. New park amenities and site furnishings include the installation of two vault toilet buildings, two nature play areas, a swing set, as well as concrete walks and pads for benches, picnic tables, and trash containers. Vegetation restoration will consist of native seeding with erosion control blanket, coir matting, netting straw mat and protection fencing as well as the planting of trees, native plugs, live stakes and brush bundles.
- E. The project includes one Base Bid and three Alternates for shoreline restoration and park improvements work within the Gitchi Gammi Park limits and along Brighton Beach in Duluth, MN.

#### 1.02 CONTRACT DESCRIPTION

A. Contract Type: A single prime contract based on a Stipulated Price as described in Document 00 5200 - Agreement Form.

#### **1.03 CONTRACT TIME**

- A. The Work will be substantially completed by September 30th, 2023.
- B. The Work will be completed by November 30th, 2023.

#### **1.04 CONSTRUCTION SCHEDULE**

A. All shoreline restoration and parks improvement work to be completed during the 2023 construction season. Final vegetation restoration work will need to occur in the spring of 2023.

#### 1.05 OWNER OCCUPANCY

- A. Owner intends tokeep the existing lakewalk trail open during the entire construction period. If required, the trail will be temporarily closed at necessary locations for construction crossing. Safety fencing will be required to keep trail users out of the construction limits, as indicated on Drawings.
- B. Owner intends to occupy the Project upon Substantial Completion.
- C. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
- D. Schedule the Work to accommodate Owner occupancy.

#### 1.06 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings.
  - 1. Locate and conduct construction activities in ways that will limit disturbance to site.
- B. Arrange use of site and premises to allow:
  - 1. Use of trail by the public. Any significant damage to the trail will be the responsibility of the Contractor to restore.

PART 2 PRODUCTS - NOT USED PART 3 EXECUTION - NOT USED

#### **END OF SECTION**

#### SECTION 01 2200 UNIT PRICES

#### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. List of unit prices, for use in preparing Bids.
- B. Measurement and payment criteria applicable to Work performed under a unit price payment method.
- C. Defect assessment and non-payment for rejected work.

#### 1.02 COSTS INCLUDED

- A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.
- B. Unit prices, when required, will be used to adjust the Contract Sum when actual site conditions differ from design conditions.

#### 1.03 UNIT QUANTITIES SPECIFIED

A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.

#### 1.04 MEASUREMENT OF QUANTITIES

- A. Measurement methods delineated in the individual specification sections complement the criteria of this section.
- B. Assist by providing necessary equipment, workers, and survey personnel as required.

#### 1.05 PAYMENT

- A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Landscape Architect, multiplied by the unit price.
- B. Payment will not be made for any of the following:
  - 1. Products wasted or disposed of in a manner that is not acceptable.
  - 2. Products determined as unacceptable before or after placement.
  - 3. Products remaining on hand after completion of the Work.
  - 4. Loading, hauling, and disposing of rejected Products.

#### **1.06 DEFECT ASSESSMENT**

- A. Replace Work, or portions of the Work, not complying with specified requirements.
- B. If, in the opinion of Landscape Architect, it is not practical to remove and replace the Work, Landscape Architect will direct one of the following remedies:
  - 1. The defective Work may remain, but the unit price will be adjusted to a new unit price at the discretion of Landscape Architect.
  - 2. The defective Work will be partially repaired to the instructions of the Landscape Architect, and the unit price will be adjusted to a new unit price at the discretion of Landscape Architect.
- C. The authority of Architect to assess the defect and identify payment adjustment is final.

#### 1.07 SCHEDULE OF UNIT PRICES

A. Item: Unit Price No. 1 - Excess Soil Material Removal: In the event that additional excess soil material needs to be hauled off-site that is above (or below) the estimated quantity shown in Addendum 01, provide a price per cubic yard of soil material.

#### PART 2 PRODUCTS - NOT USED

#### PART 3 EXECUTION - NOT USED

#### **END OF SECTION**

# **BRIGHTON BEACH RESILIENCY PLAN LANDSCAPE & SHORELINE RESTORATION WORK**

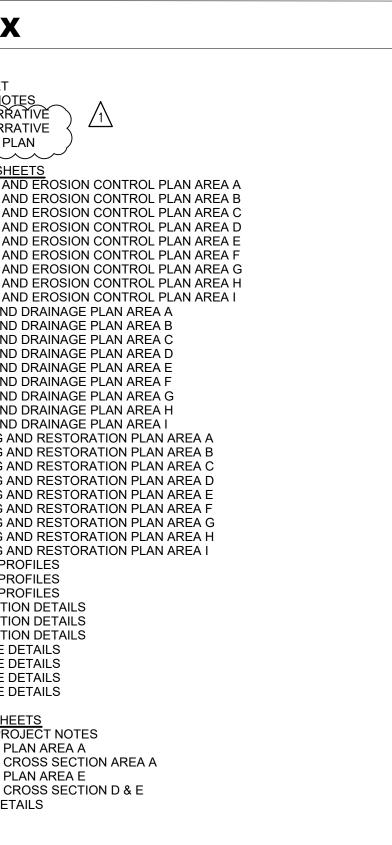
CONTACTS

- CLIENT CITY OF DULUTH PARKS AND RECREATION 411 WEST FIRST STREET DULUTH, MN 55802 CONTACT: JIM SHOBERG EMAIL: JSHOBERG@DULUTHMN.GOV PHONE: (218)730-4316
- PROJECT MANAGER LHB, INC. 21 WEST SUPERIOR STREET, SUITE 500 DULUTH. MN 55802 CONTACT: HEIDI BRINGMAN E-MAIL: HEIDI.BRINGMAN@LHBCORP.COM PHONE: (218) 279-2429
- PROJECT LANDSCAPE ARCHITECT LHB, INC. 21 WEST SUPERIOR STREET, SUITE 500 DULUTH, MN 55802 CONTACT: RACHEL JOHNSON E-MAIL: RACHEL.JOHNSON@LHBCORP.COM
- PHONE: (218) 249-7116 PROJECT CIVIL ENGINEER
- LHB. INC. CONTACT: MEGAN GOPLIN E-MAIL: MEGAN.GOPLIN@LHBCORP.COM PHONE: (218) 249-7152
- PROJECT COASTAL ENGINEER AMI CONSULTING ENGINEERS, PA CONTACT: RYAN DAGGER E-MAIL: RYAN.DAGGER@AMIENGINEERS.COM PHONE: (715) 718-5722

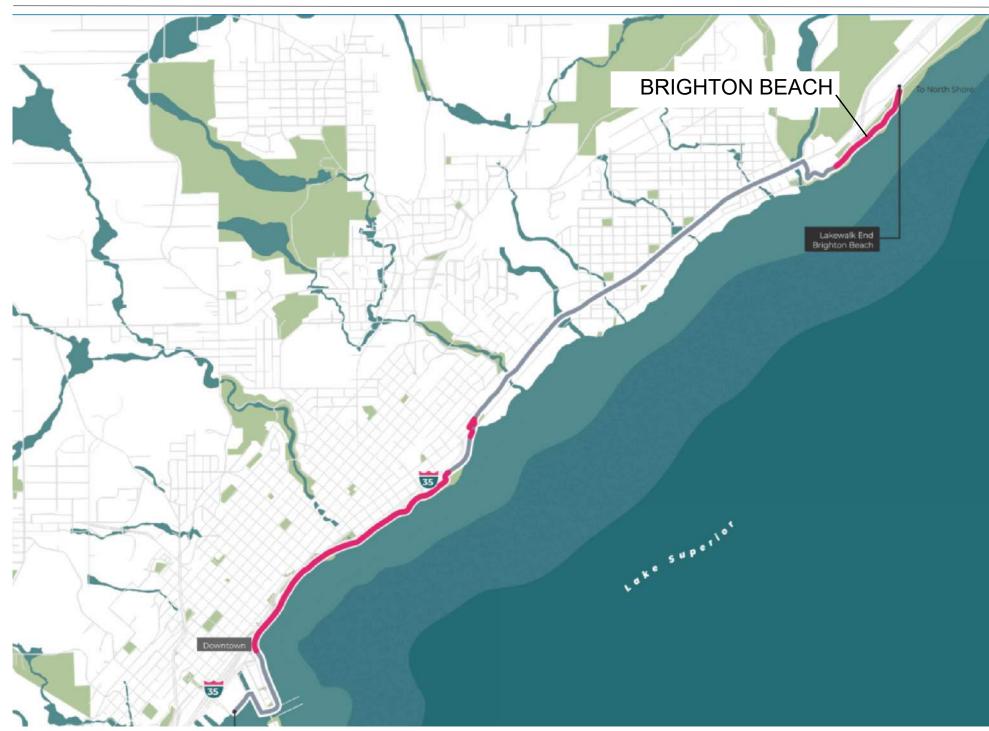
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# PHASE 2

## **BRIGHTON BEACH ROAD DULUTH, MN 55804**



**PROJECT LOCATION MAP** 





21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.727.8446

CONSULTANT #1: AMI CONSULTING ENGINEERS 91 MAIN ST SUPERIOR, WI 54880

## CLIENT: CITY OF DULUTH PARKS AND RECREATION

411 WEST FIRST ST DULUTH, MN 55802

THIS SQUARE APPEARS 1/2" x 1/2" ON FULL SIZE SHEETS.
05/25/2023 ADDENDUM 01 05/05/2023 BID ISSUE NO DATE ISSUED FOR
NO DATE REVISION
I HEREBY CERTIFY that this plan, specifica- tion or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota. SIGNATURE: <i>Acidis Pringaran</i> TYPED OR PRINTED NAME: <u>HEIDI S. BRINGMAN</u>
DATE: <u>05–05–2023</u> REG. NO.: <u>46914</u>
COPYRIGHT 2023 BY LHB, INC. ALL RIGHTS RESERVED.
PROJECT NAME: BRIGHTON BEACH SHORELINE RESTORATION: PHASE 2 BRIGHTON BEACH ROAD DULUTH, MN 55804
DRAWING TITLE:

DRAWN BY: RMJ CHECKED BY: HSB PROJ. NO: 210260 DRAWING NO:



1. GENERAL

4. SWPPP RESPONSIBILITIES (THE OWNER IS RESPONSIBLE FOR PREPARING AND AMENDING THE SWPPP). THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) REGULATES STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION A. ON BEHALF OF THE OWNER, THE FOLLOWING PERSON PREPARED THE SWPPP AND IS TRAINED IN SWPPP DESIGN: ACTIVITY DISTURBING LAND EQUAL TO OR GREATER THAN ONE ACRE THROUGH A GENERAL PERMIT (PERMIT NO. MN R100001) MEGAN GOPLIN, PE-MN, LHB, INC. NAME: AUTHORIZING THE DISCHARGE OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO WATERS OF THE STATE IN COMPLIANCE TRAINING DATE/INSTRUCTOR: CERTIFICATION 06–18–2021 (EXPIRES 2024)/STORMWATER ONE WITH THE CLEAN WATER ACT AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM. THE GENERAL PERMIT (PERMIT) REQUIRES THE DEVELOPMENT AND IMPLEMENTATION OF A STORM WATER TRAINING CONTENT/HOURS: DESIGN OF CONSTRUCTION SWPPP/ 16 HOUR POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP IS A COMBINATION OF NARRATIVE, PLANS SHEETS, AND STANDARD DETAIL SHEETS THAT ADDRESS THE FORESEEABLE CONDITIONS AT ANY STAGE IN THE CONSTRUCTION OR POST-CONSTRUCTION ACTIVITIES. B. ON BEHALF OF THE OWNER, THE CONTRACTOR WILL OVERSEE SWPPP IMPLEMENTATION, REVISE AND AMEND THE SWPPP, PERFORM INSPECTIONS, AND SUPERVISE THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS BEFORE AND DURING CONSTRUCTION. THE FOLLOWING CONTRACTOR REPRESENTATIVE IS TRAINED TO PERFORM THESE DUTIES AND WILL ASSUME THESE RESPONSIBILITIES: NAME: JOINTLY RESPONSIBLE FOR COMPLIANCE WITH TERMS AND CONDITIONS OF THE PERMIT. OBTAIN A COPY OF THE PERMIT AND COMPLY WITH PARTS II.B, II.C, III.B-F, IV, V, AND APPLICABLE CONSTRUCTION ACTIVITY REQUIREMENTS FOUND IN APPENDIX A, TRAINING DATE/INSTRUCTOR: PART C OF THE PERMIT. VERIFY THAT PERMIT REQUIREMENTS ARE SATISFIED AND COMPLETE THE BLANKS ON THIS SWPPP SHEET. TRAINING CONTENT/HOURS APPLICATION FEE. OWNER AND CONTRACTOR MUST BOTH MUST SIGN THE APPLICATION. OBTAIN A COPY OF THE PERMIT AND APPLY ON-LINE AT THE MPCA CONSTRUCTION STORM WATER WEBSITE: <u>http://www.pca.state.mn.us/water/stormwater/stormwater-c.html.</u> C. THE OWNER IS RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM. THE FOLLOWING PERSON IS DESIGNATED TO PERFORM THESE DUTIES: SUBMITTAL DATE. DO NOT BEGIN LAND DISTURBING CONSTRUCTION ACTIVITIES UNTIL PERMIT COVERAGE IS EFFECTIVE. THE NAME/TITLE: START OF ANY LAND DISTURBING ACTIVITIES SIGNIFIES THAT THE CONTRACTOR IS ASSUMING RESPONSIBILITY FOR PERMIT COVERAGE AND HAS COMPLIED WITH PERMIT REQUIREMENTS. D. CHAIN OF RESPONSIBILITY: THE GENERAL CONTRACTOR IS IN CHARGE OF ALL SWPPP IMPLEMENTATION ON THE CONSTRUCTION ONLINE NOTIFICATION, OR LETTER). KEEP OR POST A COPY OF THE NOTIFICATION OF COVERAGE WITH THE SWPPP AT THE SITE AND IS ACCOUNTABLE FOR SUBCONTRACTORS AND OTHER CONTRACTORS WORKING ON SITE AND THEIR COMPLIANCE WITH PROJECT SITE. PROVIDE COPIES TO THE OWNER AND ENGINEER. GENERAL STORMWATER PERMIT AND SWPPP REQUIREMENTS. NOTIFY THE OWNER OF ANY AMENDMENT NEEDED TO THE SWPPP. OWNER, AND NEW OWNER OR OPERATOR, MUST SUBMIT A PERMIT MODIFICATION FORM PRIOR TO THE NEW OWNER OR OPERATOR COMMENCING CONSTRUCTION ACTIVITY. CONTACT THE MPCA AT 800-657-3864 FOR THIS FORM. THE CURRENT OWNER MUST 5. REGULATORY AGENCIES AND PERMITS ALSO SUBMIT A NOTICE OF TERMINATION (NOT) FORM AS NOTED BELOW WHEN THE OWNERSHIP OF THE PROPERTY CHANGES, AS COMPLY WITH REQUIREMENTS OF ALL REGULATORY AGENCIES AND PERMITS HAVING JURISDICTION DURING CONSTRUCTION NOTED BELOW. ACTIVITIES. THE FOLLOWING ADDITIONAL REGULATORS AND PERMITS ARE KNOWN TO HAVE SITE JURISDICTION: 1) CITY OF DULUTH COVERAGE BY COMPLETING AND SUBMITTING A NOTICE OF TERMINATION (NOT) FORM TO THE MPCA. A NOTICE OF TERMINATION 2) MN DNR MUST BE SUBMITTED WITHIN 30 DAYS AFTER FINAL STABILIZATION HAS BEEN ESTABLISHED FOR THE SITE AND CONSTRUCTION ACTIVITY IS COMPLETE, OR WHEN THE OWNER OR OPERATOR CHANGES. COMPLIANCE WITH PERMIT REQUIREMENTS IS REQUIRED UNTIL SUBMISSION OF A NOTICE OF TERMINATION. 6. DESCRIPTION OF THE CONSTRUCTION ACTIVITY / SWPPP COMPONENTS A. NARRATIVE: AND MAINTENANCE RECORDS ON SITE DURING CONSTRUCTION. THIS DOCUMENTATION MUST BE KEPT ON FILE FOR 3 YEARS 1) PROJECT SUMMARY: THE PROJECT INVOLVES SHORELINE RESTORATION AND PARK IMPROVEMENTS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION. COORDINATE TRANSFER OF THIS DOCUMENTATION TO THE OWNER AT PROJECT COMPLETION. 2) SPECIFIC WORK INCLUDES: a. REMOVAL OF EXISTING BITUMINOUS AND GRAVEL SURFACING AND CULVERTS AND AS REQUIRED BY THE PERMIT ACCORDING TO PART III.B OF THE PERMIT b. SHORELINE GRADING AND REINFORCEMENT c. PARK GRADING. INCLUDING DAYLIGHTING OF DRAINAGES d. EXISTING CULVERT MODIFICATIONS e. CONSTRUCTION OF CONCRETE PADS, SIDEWALKS AND OTHER PARK AMENITIES BEST MANAGEMENT PRACTICES (BMPS) IDENTIFIED IN THE SWPPP AND PERMIT MUST BE SELECTED, INSTALLED, AND MAINTAINED f. TURF ESTABLISHMENT IN AN APPROPRIATE AND FUNCTIONAL MANNER IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, MANUFACTURER RECOMMENDATIONS, AND ACCEPTED ENGINEERING PRACTICES. 2) TIMING FOR INSTALLATION OF EROSION & SEDIMENTATION BMPS AND PERMANENT STORMWATER MANAGEMENT SYSTEMS. IN GENERAL SEQUENTIAL ORDER FROM FIRST TO LAST: STABILIZE EXPOSED SOIL AREAS AS SOON AS POSSIBLE, BUT IN NO CASE LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. AMEND SWPPP BY INDICATING THE LOCATION OF a. INLET PROTECTION FOR EXISTING INLETS / SILT FENCE / DELINEATION AREAS NOT TO BE DISTURBED: <u>PROVIDE PRIOR TO</u> AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOIL AREAS. CONSTRUCTION: MAINTAIN DURING CONSTRUCTION b. SILT FENCE AROUND STOCKPILES: DURING CONSTRUCTION. SURFACE WATERS, INCLUDING BUT NOT LIMITED TO, CURB AND GUTTER SYSTEMS AND STORM SEWER INLETS TO SATISFY PART c. PORTABLE SEDIMENT CONTAINMENT SYSTEMS FOR TREATING WATER FROM DEWATERING OPERATIONS : PROVIDE DURING IV.C OF THE PERMIT. PROVIDE TEMPORARY SEDIMENTATION BASINS WHERE 5 OR MORE ACRES OF DISTURBED SOIL DRAIN TO A CONSTRUCTION. COMMON LOCATION AS APPROVED BY LHB (SEE PART III.C OF THE PERMIT FOR BASIN REQUIREMENTS). d. HARD SURFACING (E.G. PAVEMENTS) e. VEGETATIVE COVER / EROSION CONTROL BLANKETS: <u>AFTER FINAL TOPSOIL PLACEMENT AND FINISH GRADING.</u> ENSURE DRAINAGE DURING CONSTRUCTION. COMPLY WITH PART IV.D OF THE PERMIT. ENSURE THAT ALL WATER FROM DEWATERING OR BASIN DRAINING ACTIVITIES IS DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, f. REMOVAL OF TEMPORARY BMPS: AFTER FINAL STABILIZATION IS ESTABLISHED. EROSION IN RECEIVING CHANNELS OR DOWNSLOPE PROPERTIES, OR INUNDATION IN WETLANDS CAUSING SIGNIFICANT ADVERSE NOTE: REPAIR/REPLACEMENT OF TEMPORARY BMPS SHALL BE DONE BY END OF NEXT BUSINESS DAY UPON DISCOVERY WHEN 1/2 IMPACTS TO THE WETLANDS. ANY TURBID OR SEDIMENT LADEN DISCHARGE WATER MUST BE ADEQUATELY TREATED BY FULL OR NON-FUNCTIONAL. REMOVAL OF SEDIMENT FROM PAVED SURFACES WITHIN 24 HOURS UPON DISCOVERY. OUTFALLS DISCHARGING TO A SEDIMENTATION BASIN WHENEVER FEASIBLE. OR TREATED WITH APPROPRIATE BMPS IF THE WATER CANNOT BE MUST HAVE RIPRAP WITHIN 24 HOURS. LAST 200 FEET OF ANY TEMPORARY OR PERMANENT DITCH OR SWALE FROM DISCHARGED TO A SEDIMENT BASIN. THE CONTRACTOR MUST VISUALLY CHECK THE TREATED STORMWATER PRIOR TO SURFACE WATER OR PROPERTY EDGE MUST BE STABILIZED WITHIN 24 HOURS, REMAINDER WITHIN 7 DAYS (MULCH NOT DISCHARGING TO RECEIVING WATERS TO ENSURE ADEQUATE TREATMENT IS BEING MET AND THAT THE DISCHARGE POINTS ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR. BACKWASH WATER FROM FILTRATION MUST BE INCORPORATED INTO THE ACCEPTABLE STABILIZATION PRACTICE WITHIN ANY SWALE OR DITCH). SITE IN A NON-EROSIVE MANNER, OR DISCHARGED TO THE SANITARY SEWER WITH PERMISSION FROM THE SANITARY SEWER AUTHORITY. 3) IMPERVIOUS SURFACE AREAS / WATER QUALITY VOLUME: a. TOTAL DISTURBED AREA: 6.24 ACRES

2. ADMINISTRATIVE REQUIREMENTS

- A. RESPONSIBLE PARTIES: THE OWNER AND GENERAL CONTRACTOR (CONTRACTOR) ARE CO-PERMITTEES OF THE PERMIT AND ARE
- B. PERMIT APPLICATION: THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE PERMIT APPLICATION ON-LINE AND PAYING THE
- C. PERMIT COVERAGE: PERMIT COVERAGE TYPICALLY BECOMES EFFECTIVE SEVEN (7) CALENDAR DAYS AFTER THE ELECTRONIC
- D. NOTIFICATION OF COVERAGE: THE CONTRACTOR WILL RECEIVE A NOTIFICATION OF COVERAGE FROM THE MPCA (E.G., VIA EMAIL,
- E. CHANGE OF COVERAGE FOR NEW OWNER OR NEW OPERATOR (CONTRACTOR): FOR A NEW OWNER OR OPERATOR, THE CURRENT
- F. TERMINATION OF COVERAGE: THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER AND TERMINATING PERMIT
- G. RECORD RETENTION: THE CONTRACTOR SHALL KEEP A COPY OF THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS
- H. CHANGES (AMENDMENTS) TO SWPPP: UPDATE AND DOCUMENT CHANGES TO THE SWPPP AS NECESSARY DURING CONSTRUCTION,

**3**. CONSTRUCTION ACTIVITY REQUIREMENTS

- A. GENERAL: COMPLY WITH PART IV.A OF THE PERMIT TO IMPLEMENT THE SWPPP AND THE REQUIREMENTS OF THE PERMIT. THE
- B. EROSION PREVENTION PRACTICES: PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES TO SATISFY PART IV.B OF THE PERMIT
- C. SEDIMENT CONTROL PRACTICES: PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES THAT MINIMIZE SEDIMENT FROM ENTERING
- D. DEWATERING AND BASIN DRAINING: SITE HAS POTENTIAL FOR STORMWATER RUN-ON. CONTRACTOR SHALL TAKE MEASURES TO
- E. INSPECTIONS AND MAINTENANCE: INSPECTION FREQUENCY BY TRAINED INDIVIDUAL SHALL OCCUR EVERY WEEK AND AFTER 0.5" RAINFALL OR GREATER. COMPLY WITH PART IV.E OF THE PERMIT.
- F. POLLUTION PREVENTION MANAGEMENT MEASURES: COMPLY WITH PART IV.F OF THE PERMIT. NOTE, PREPARE AND INCLUDE A FUELING OPERATION PLAN AND EMERGENCY SPILL PLAN WITH THE SWPPP AS REQUIRED BY THIS PART. AMEND SWPPP BY INDICATING THE LOCATION OF POTENTIAL POLLUTANT GENERATING ACTIVITIES ON SITE MAPS.
- G. FINAL STABILIZATION: ESTABLISH FINAL STABILIZATION FOR THE SITE AS DESCRIBED IN PART IV.G OF THE PERMIT. SPECIFIC CONDITIONS REQUIRED FOR FINAL STABILIZATION INCLUDE:
- 1) SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND SOILS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PERVIOUS SURFACE AREA, OR OTHER EQUIVALENT MEANS NECESSARY TO PREVENT SOIL FAILURE UNDER EROSIVE CONDITIONS.
- 2) PERMANENT STORMWATER MANAGEMENT SYSTEMS ARE OPERATIONAL AND SEDIMENT IS REMOVED FROM TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND CONVEYANCE SYSTEMS, AND DITCHES ARE STABILIZED WITH FINAL COVER.
- 3) ALL TEMPORARY SYNTHETIC AND STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL BMPS ARE REMOVED. BMPS DESIGNED TO DECOMPOSE MAY BE LEFT IN PLACE.
- 4) FOR RESIDENTIAL CONSTRUCTION, THE STUCTURE(S) ARE FINISHED, TEMPORARY EROSION PROTECTION AND PERIMETER CONTROL IS COMPLETED, AND THE RESIDENCE SOLD TO THE HOMEOWNER WHO HAS BEEN GIVEN THE MPCA'S "HOMEOWNER FACT SHEET" REGARDING THE NEED FOR PERMANENT COVER.
- 5) DISTURBED AGRICULTURAL LAND IS RETURNED TO ITS PRECONSTRUCTION AGRICULTURAL USE.

- b. PRE-CONSTRUCTION IMPERVIOUS: 2.57 ACRES
- c. POST CONSTRUCTION IMPERVIOUS: 1.45 ACRES
- d. NET NEW IMPERVIOUS: -1.12 ACRES
- e. WATER QUALITY VOLUME: N/A
- f. REASON WATER QUALITY VOLUME CANNOT BE INFILTRATED (PER PART III.D.1.j): N/A
- q. ACTUAL WATER QUALITY VOLUME RETAINED ON-SITE / METHOD OF RETENTION: N/A
- h. REMAINDER OF WATER QUALITY VOLUME AND ALTERNATIVE TREATMENT METHOD: N/A
- 4) CHEMICAL TREATMENT SYSTEMS FOR ENHANCING THE ON-SITE SEDIMENTATION PROCESS AND HOW COMPLIANCE WILL BE ACHIEVED PER PART IV.C.10 OF THE PERMIT: N/A
- 5) DOCUMENTATION OF INFEASIBILITY FOR OBTAINING RIGHT-OF-WAY FOR PERMANENT STORMWATER MANAGEMENT SYSTEMS: N/A



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### CLIENT: CITY OF DULUTH PARKS AND RECREATION

411 WEST FIRST ST DULUTH, MN 55802

	THIS SQUAR ON FULL SIZ	RE APPEARS 1/2" x 1/2" ZE SHEETS.
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my dire License	ct supervis d Profess the State	s prepared by me or under sion and that I am a duly sional Engineer under the of Minnesota. Man Yoplin
TYPED OR	PRINTED NA	AME: MEGAN GOPLIN
	-05-2023	REG. NO.: <u>53018</u> , INC. ALL RIGHTS RESERVED.
SHC RES BRIGI	GHTO RELII TORA	TION: PHASE 2 BEACH ROAD
drawing SWP NAR		Ε
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- 6) STORMWATER POLLUTION MITIGATION MEASURES IDENTIFIED IN ENVIRONMENTAL REVIEW OR OTHER REQUIRED REVIEW: N/A
- 7) MEASURES TO ASSURE COMPLIANCE WITH SURFACE AND GROUNDWATER STANDARDS IN KARST AREAS: N/A
- 8) PERMANENT STORMWATER MANAGEMENT BMPS MUST BE FUNCTIONING, FREE OF SEDIMENT, AND TEMPORARY SEDIMENT CONTROLS (E.G. SILT FENCE) MUST BE REMOVED PRIOR TO TERMINATING PERMIT COVERAGE.
- 9) INFILTRATION BASIN MUST NOT BE EXCAVATED TO FINAL GRADE OR WITHIN 3 FEET OF FINAL GRADE UNLESS SEDIMENT AND RUNOFF ARE KEPT COMPLETELY AWAY FROM INFILTRATION AREA VIA RIGOROUS EROSION AND SEDIMENT CONTROLS UNTIL ALL UP-GRADIENT AREAS ARE STABILIZED.
- 10) CONFIRM 50 FOOT BUFFER NOT TO BE DISTURBED BETWEEN SURFACE WATERS/WETLANDS. IF INFEASIBLE, PROVIDE REDUNDANT SEDIMENT CONTROLS BETWEEN SURFACE WATERS/WETLANDS.

#### B. PLAN SHEETS:

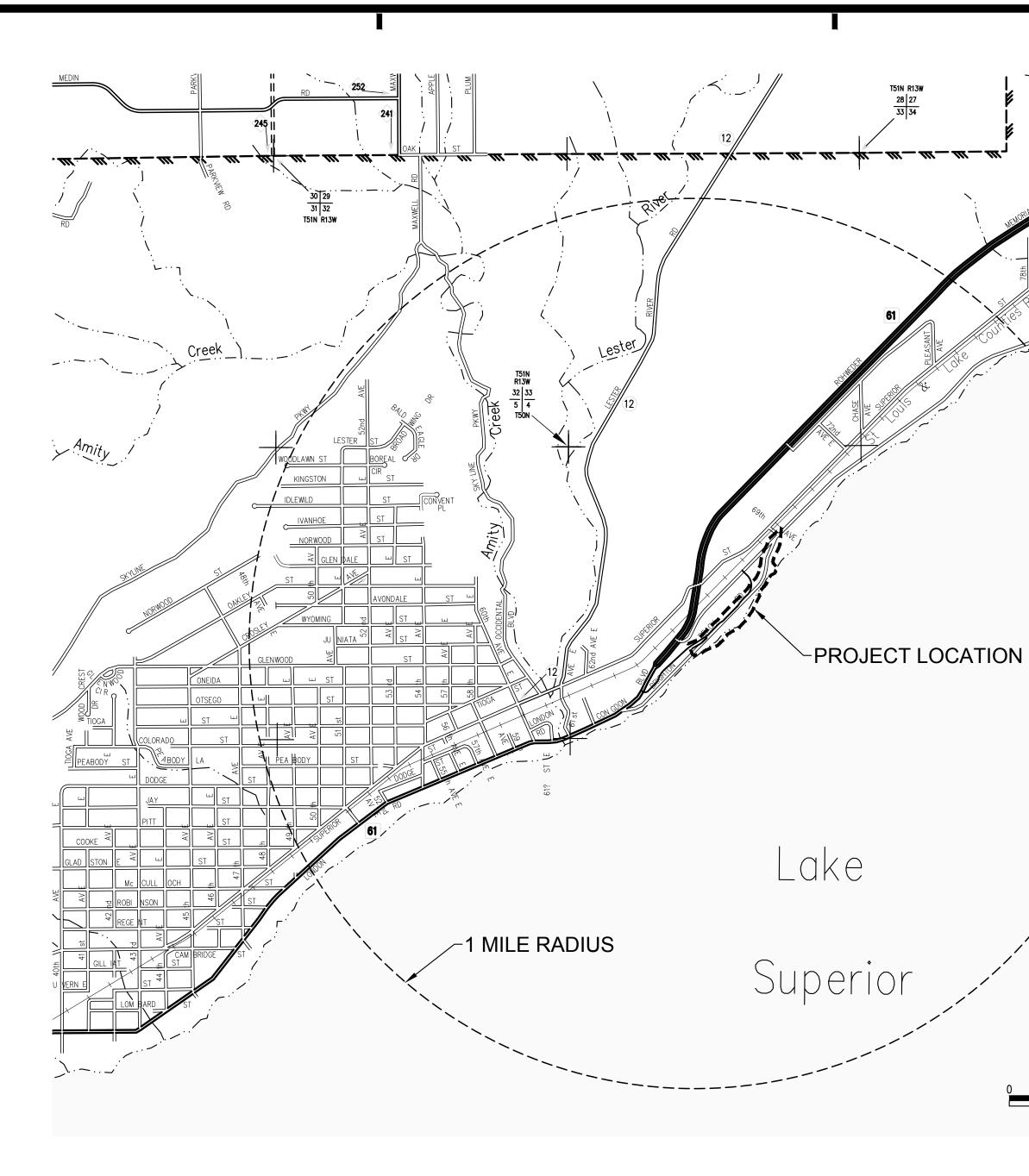
DESCRIPTION	LOCATION
TEMPORARY EROSION CONTROL MEASURES	SHEETS NO. C101-C109
PERMANENT EROSION CONTROL MEASURES	SHEETS NO. C401-C409
DIRECTION OF FLOW	SHEETS NO. C101-C109
FINAL STABILIZATION	SHEETS NO. C401-C409
SOILS AND CONSTRUCTION NOTES	SHEET NO. COO1
DRAINAGE STRUCTURES	SHEETS NO. C301-C309 & C500-C502
EROSION AND SEDIMENT CONTROL DETAILS	SHEET NO. C600 & L502
EROSION CONTROL TABULATION	N/A
TURF ESTABLISHMENT TABULATION	N/A
SITE MAP	SHEET NO. COO3

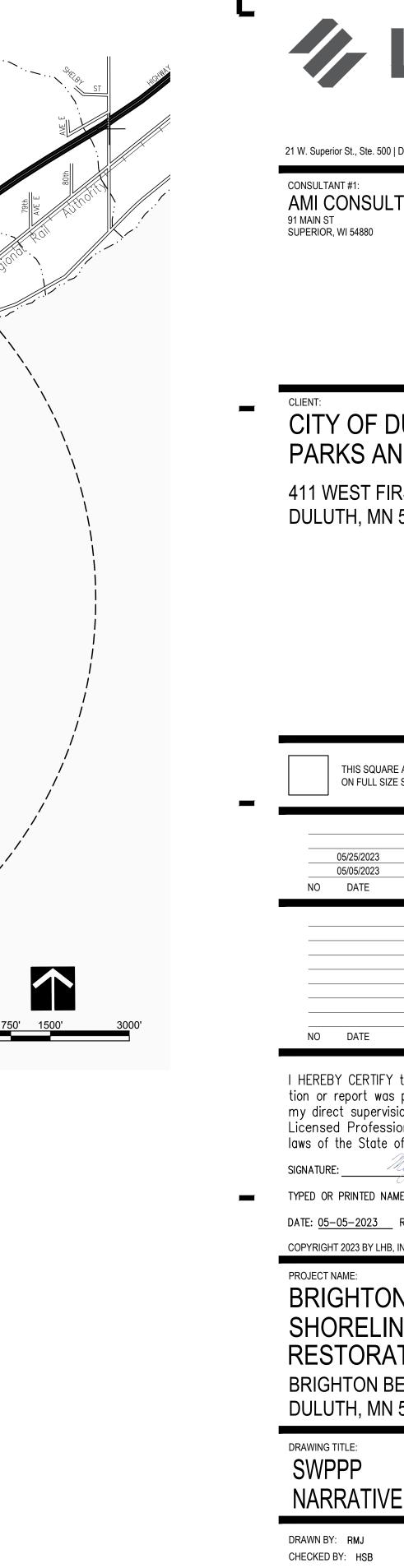
- 1) IDENTIFICATION OF SURFACE WATERS AND WETLANDS WITHIN 1 MILE OF SITE THAT RECEIVE RUNOFF FROM SITE: LAKE SUPERIOR IS WITHIN 1 MILE OF THE PROJECT SITE AND MAY RECEIVE THE SITE'S STORMWATER DISCHARGE. THIS PORTION OF LAKE SUPERIOR IS A "RESTRICTED WATER" AND REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES (BMPs) FOUND IN ITEMS 23.9, 23.10, AND 23.11 OF THE CONSTRUCTION STORMWATER PERMIT:
  - ITEM 23.9: PERMITTEES MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 8.4, AND COMPLETE THE STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORARILY OR PERMANENTLY CEASES.
  - ITEM 23.10: PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN AS DESCRIBED IN SECTION 14 FOR COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE TIME.
  - ITEM 23.11: PERMITTEES MUST INCLUDE AN UNDISTURBED BUFFER ZONE OF NOT LESS THAN 100 LINEAR FEET FROM A SPECIAL WATER (NOT INCLUDING TRIBUTARIES) AND MUST MAINTAIN THIS BUFFER ZONE AT ALL TIMES, BOTH DURING CONSTRUCTION AND AS A PERMANENT FEATURE POST CONSTRUCTION, EXCEPT WHERE A WATER CROSSING OR OTHER ENCROACHMENT IS NECESSARY TO COMPLETE THE PROJECT. PERMITTEES MUST FULLY DOCUMENT THE CIRCUMSTANCE AND REASONS THE BUFFER ENCROACHMENT IS NECESSARY IN THE SWPPP AND INCLUDE RESTORATION ACTIVITIES. THIS PERMIT ALLOWS REPLACEMENT OF EXISTING IMPERVIOUS SURFACE WITHIN THE BUFFER. PERMITTEES MUST MINIMIZE ALL POTENTIAL WATER QUALITY, SCENIC AND OTHER ENVIRONMENTAL IMPACTS OF THESE EXCEPTIONS BY THE USE OF ADDITIONAL OR REDUNDANT BMPS AND MUST DOCUMENT THIS IN THE SWPPP FOR THE PROJECT.
- 2) FOR THE ABOVE SURFACE WATERS, IDENTIFICATION OF SPECIAL OR IMPAIRED WATERS, INCLUDING ENVIRONMENTAL PROTECTION AGENCY (EPA) APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL) AND WASTE LOAD ALLOCATION (WLA) FOR POLLUTANTS OR STRESSORS IDENTIFIED IN APPENDIX A, PART B.10 OF THE PERMIT: N/A.
- 3) FOR THE ABOVE SPECIAL OR IMPAIRED WATERS, DOCUMENTATION OF BMPS USED TO ADDRESS TMDL OR WLA REQUIREMENTS TO COMPLY WITH APPENDIX A OF THE PERMIT: N/A
- 4) CONSTRUCTION AREAS THAT ARE ADJACENT TO AND DRAIN TO MINNESOTA DEPARTMENT OF NATURAL RESOURCES (MDNR) PUBLIC WATERS PROMULGATED AS "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIMES: N/A
- 5) IDENTIFY DEPTH TO SEASONAL HIGH WATER TABLE ELEVATION AT INFILTRATION BASIN: N/A.
- 6) IDENTIFY HYDROLOGIC SOIL GROUP AND INFILTRATION RATE: N/A

#### C. <u>MAINTENANCE PLAN</u>: N/A.

7. STANDARDS SPECIFICATIONS FOR CONSTRUCTION:

UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS, ALL MATERIAL AND CONSTRUCTION REQUIREMENTS FOR TEMPORARY SEDIMENT CONTROL AND EROSION PREVENTION SHALL BE IN ACCORDANCE WITH THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION AND THE CITY OF DULUTH, MINNESOTA CONSTRUCTION STANDARDS, CURRENT ADDITION.







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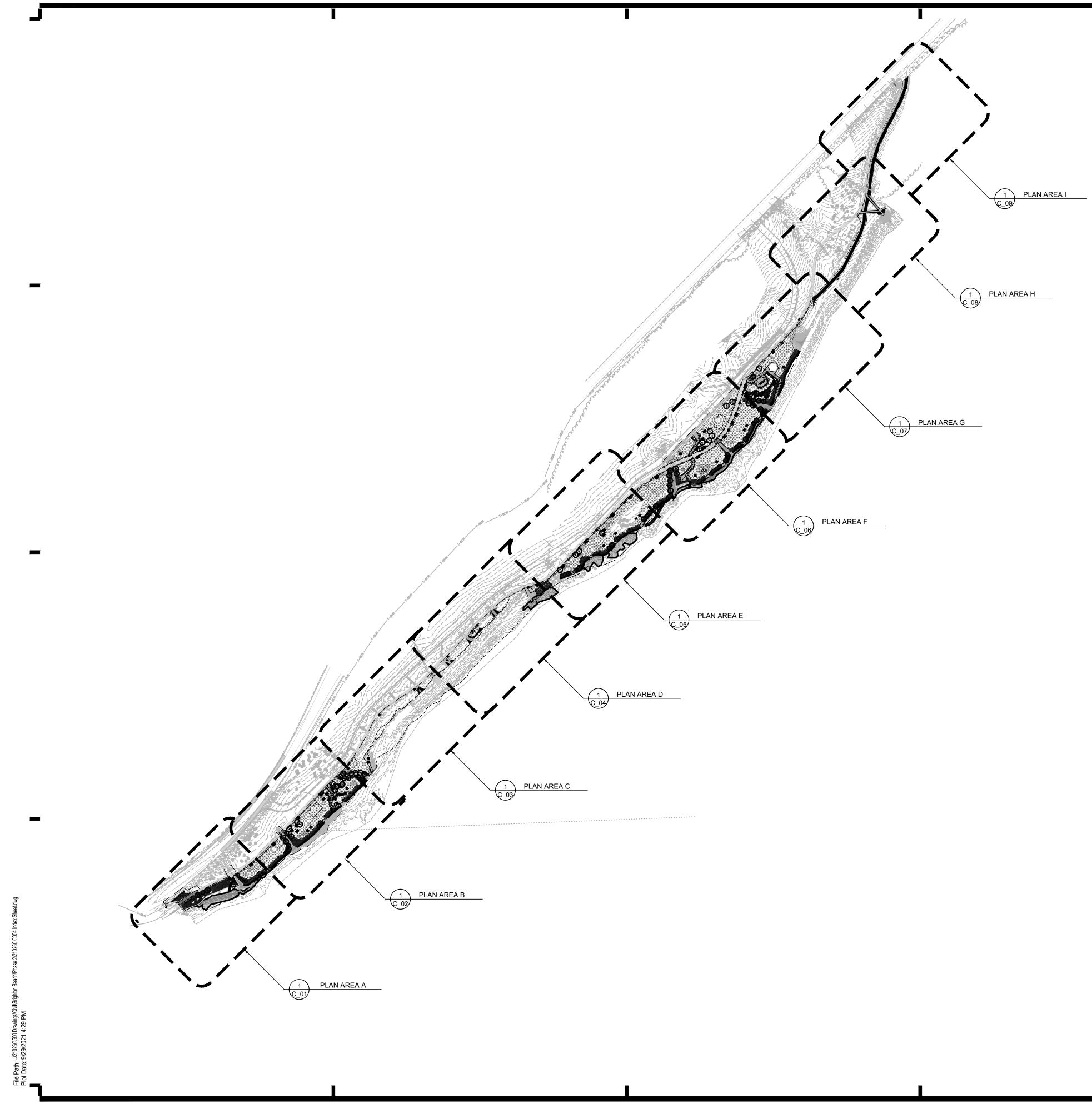
## CITY OF DULUTH PARKS AND RECREATION

411 WEST FIRST ST DULUTH, MN 55802

THIS SQUARE APPEARS 1/2" x 1/2" ON FULL SIZE SHEETS.
05/25/2023 ADDENDUM 01 05/05/2023 BID ISSUE NO DATE ISSUED FOR
NO DATE REVISION
I HEREBY CERTIFY that this plan, specifica- tion 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.
SIGNATURE: <u>PLGM Joplin</u>
TYPED OR PRINTED NAME: <u>MEGAN GOPLIN</u> DATE: 05-05-2023 REG. NO.: 53018
COPYRIGHT 2023 BY LHB, INC. ALL RIGHTS RESERVED.
PROJECT NAME: BRIGHTON BEACH SHORELINE RESTORATION: PHASE 2 BRIGHTON BEACH ROAD DULUTH, MN 55804
DRAWING TITLE: SWPPP NIADDATIV/E

CHECKED BY: HSB PROJ. NO: 210260 DRAWING NO:

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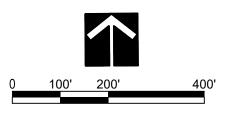
CONSULTANT #1: **AMI CONSULTING ENGINEERS** 91 MAIN ST SUPERIOR, WI 54880

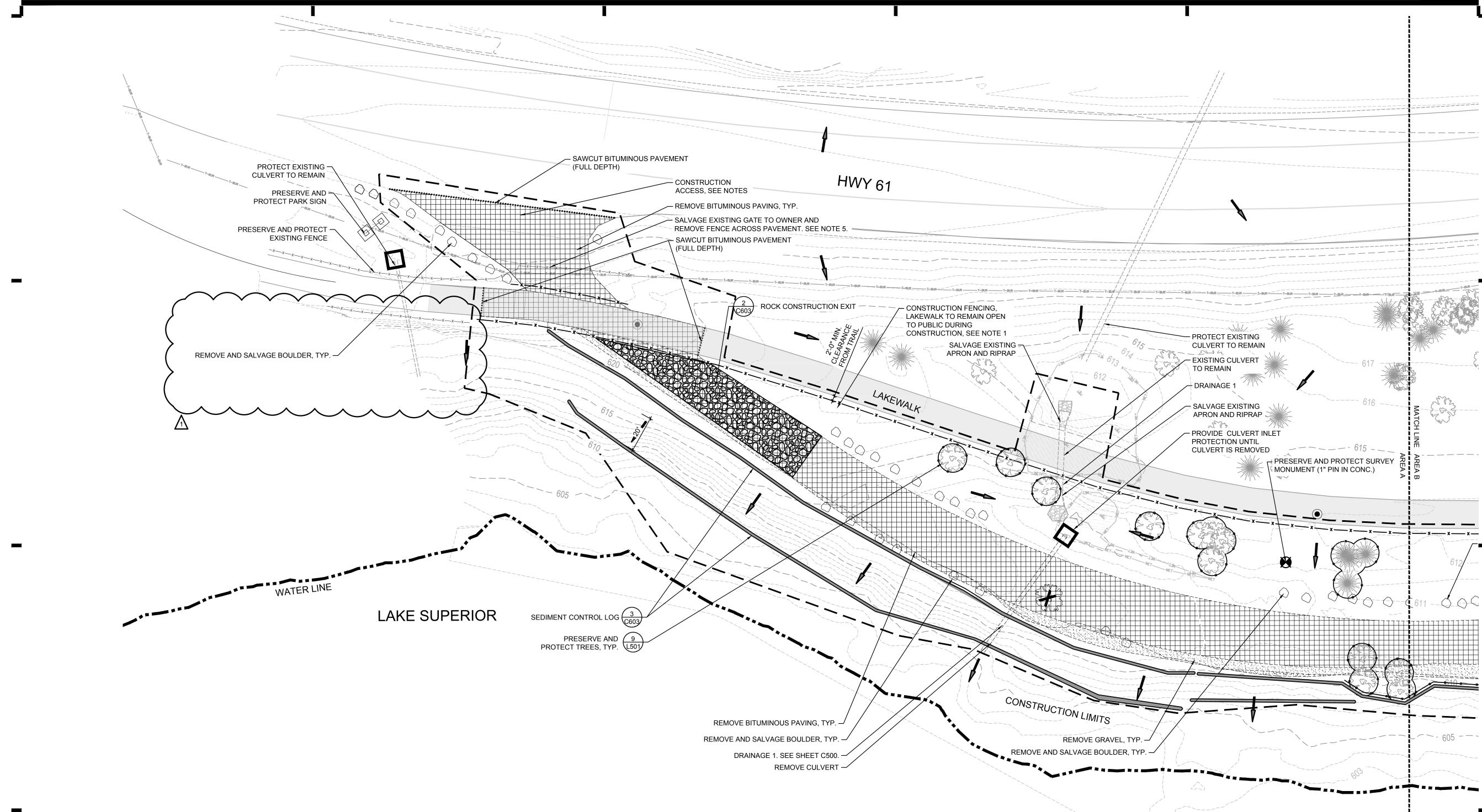
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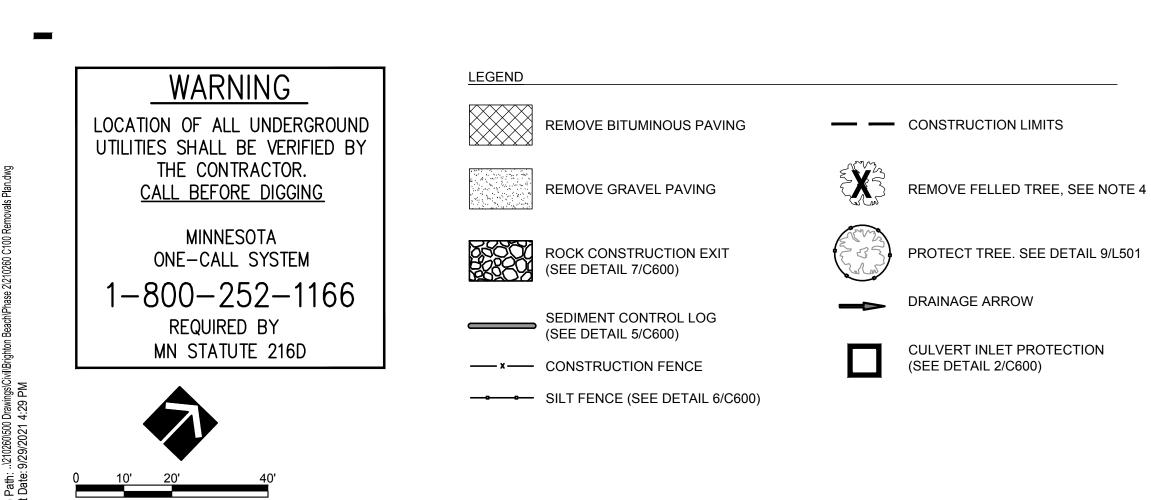
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#### NOTES:

- 1. IN PLACE LAKEWALK TRAIL TO REMAIN OPEN DURING CONSTRUCTION, COORDINATE ANY TEMPORARY CLOSURES WITH CITY.
- 2. EXISTING PAVEMENT SHALL SERVE AS CONSTRUCTION ACCESS FOR PROJECT, PHASE PAVEMENT REMOVAL TO SERVE AS CONSTRUCTION ACCESS.
- 3. CONTRACTOR MAY RECOMMEND ALTERNATIVE PERIMETER CONTROL AS LONG AS THERE IS REDUNDANCY ALONG THE LAKE SHORE.
- 4. TREES MARKED TO BE REMOVED HAVE BEEN CUT AND FELLED BY OWNER. CONTRACTOR TO REMOVE FELLED TREES AND THEIR STUMPS FROM SITE.
- 5. LEAVE GATE AND FENCE IN PLACE DURING CONSTRUCTION TO RESTRICT ACCESS TO SITE. REMOVE AT END OF CONSTRUCTION PRIOR TO FINAL PAVEMENT REMOVAL AND RESTORATION.



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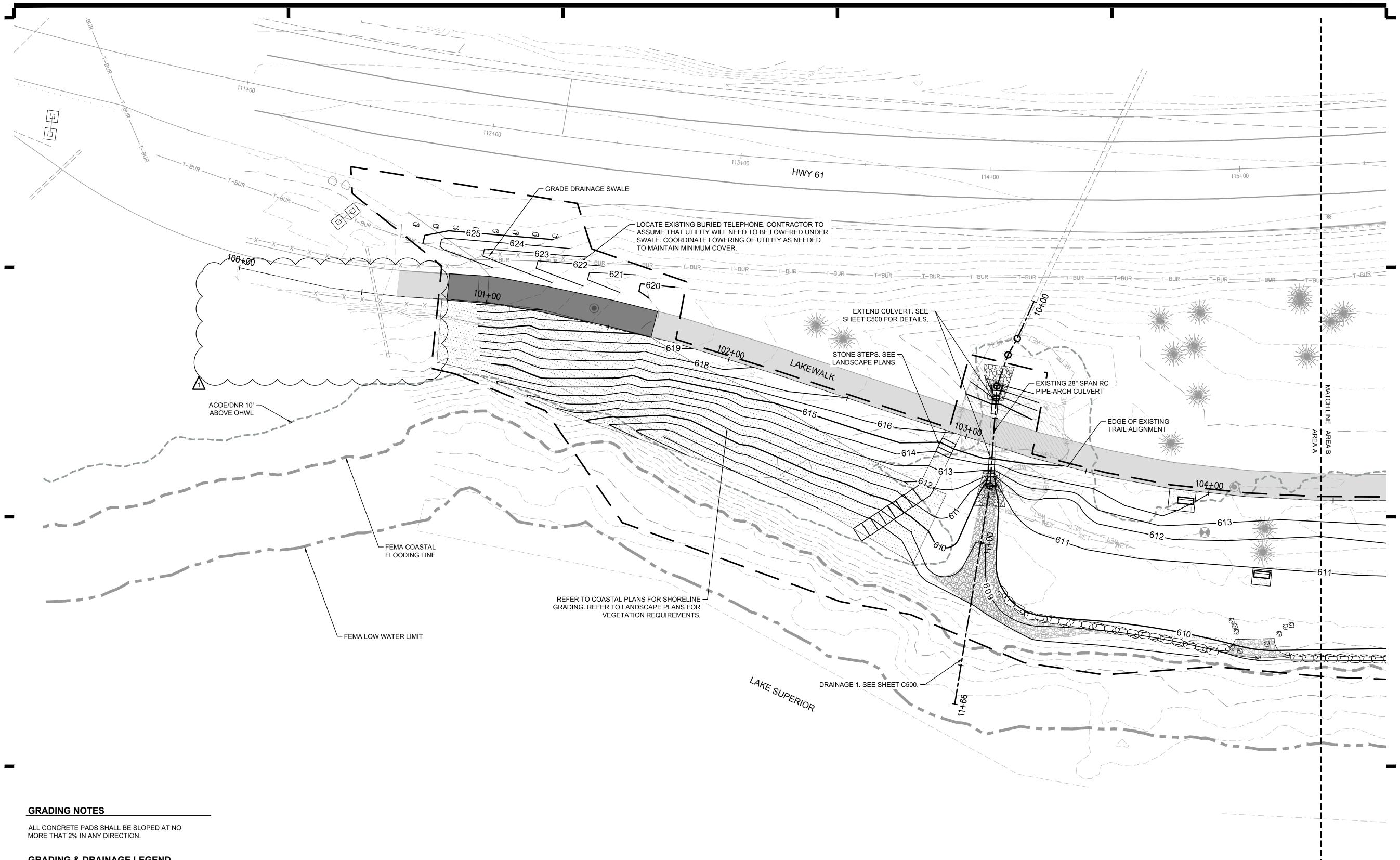
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05/25/2023 ADDENDUM 01
05/05/2023 BID ISSUE NO DATE ISSUED FOR
NO DATE REVISION
I HEREBY CERTIFY that this plan, specifica- tion or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
SIGNATURE: <u>Megun Soplin</u>
TYPED OR PRINTED NAME: MEGAN GOPLIN
DATE: <u>05–05–2023</u> REG. NO.: <u>53018</u>
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## BRIGH I ON BEACH SHORELINE **RESTORATION: PHASE 2** BRIGHTON BEACH ROAD DULUTH, MN 55804

DRAWING TITLE: **REMOVALS PLAN** AREA A

DRAWN BY: XXX CHECKED BY: XXX PROJ. NO: 210260 DRAWING NO:

# C101



- BB.awg	GRADING NOTES			
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aradıng and I	<b>GRADING &amp; DRAINAGE LEG</b>	END		
	CONSTRUCTION LIMITS		FINISHED GROUND ELEVATION	612.36
2/2/1026	EXISTING CONTOUR	613-	MATCH EXISTING ELEVATION	
cn/hase	PROPOSED CONTOUR	——613—	LANDING AREA - 4'x4' MIN. DIMENSIONS A	AND MAX.
ion bea	EXISTING CULVERT		2.0% SLOPE IN ALL DIRECTIONS	
	EXISTING PIPE APRON		EXISTING BITUMINOUS TRAIL	
awings/( 29 PM	PROPOSED CULVERT	= $=$ $=$	: =	
021 4:	PROPOSED PIPE APRON			
	PROPOSED DRAINAGE STRUCTURE			



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CONSULTANT #1: AMI CONSULTING ENGINEERS 91 MAIN ST SUPERIOR, WI 54880

## CLIENT: CITY OF DULUTH PARKS AND RECREATION

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my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

SIGNATURE: \_\_\_\_\_\_ 100/0

TYPED OR PRINTED NAME: MEGAN GOPLIN

DATE: <u>05-05-2023</u> REG. NO.: <u>53018</u>

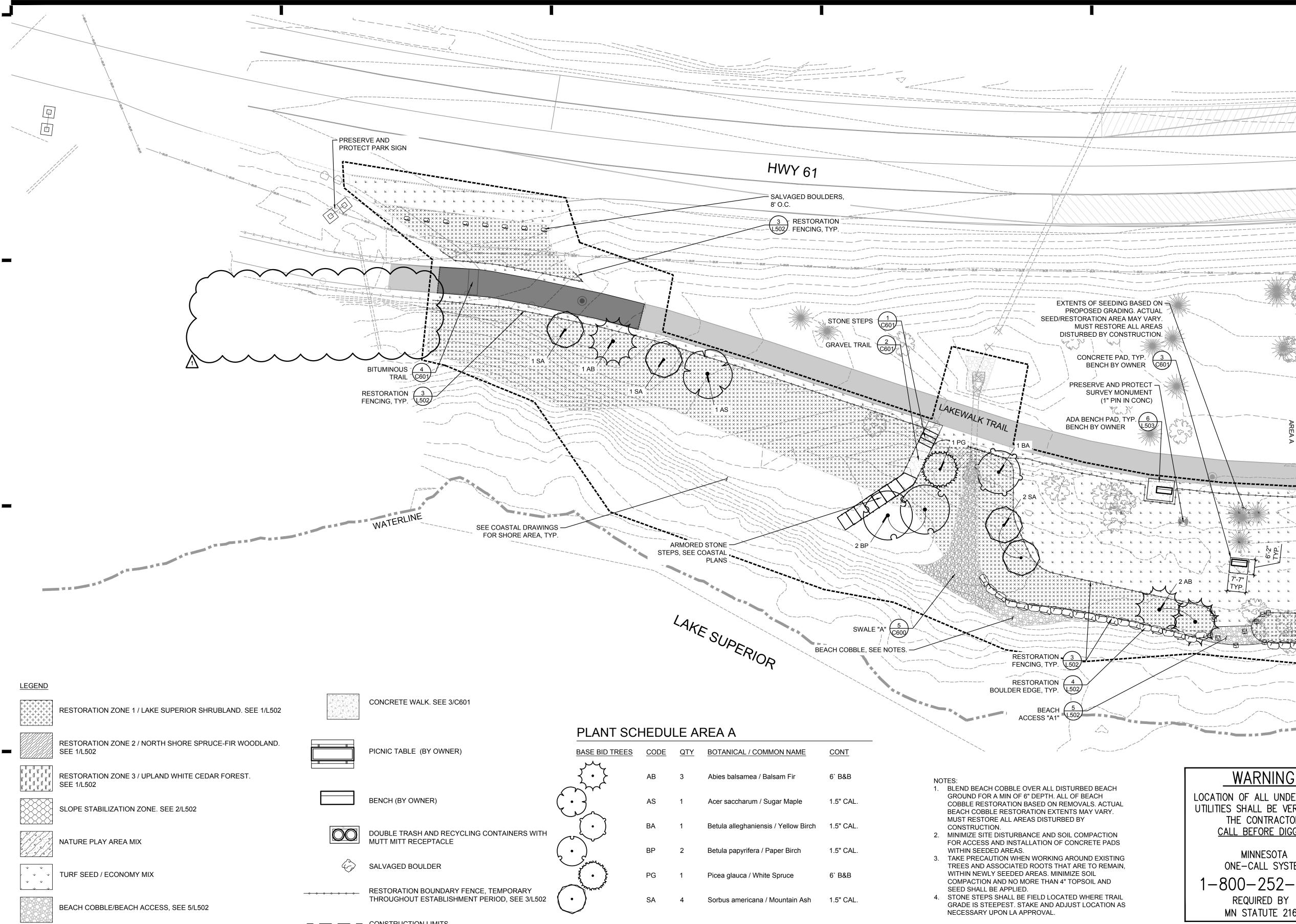
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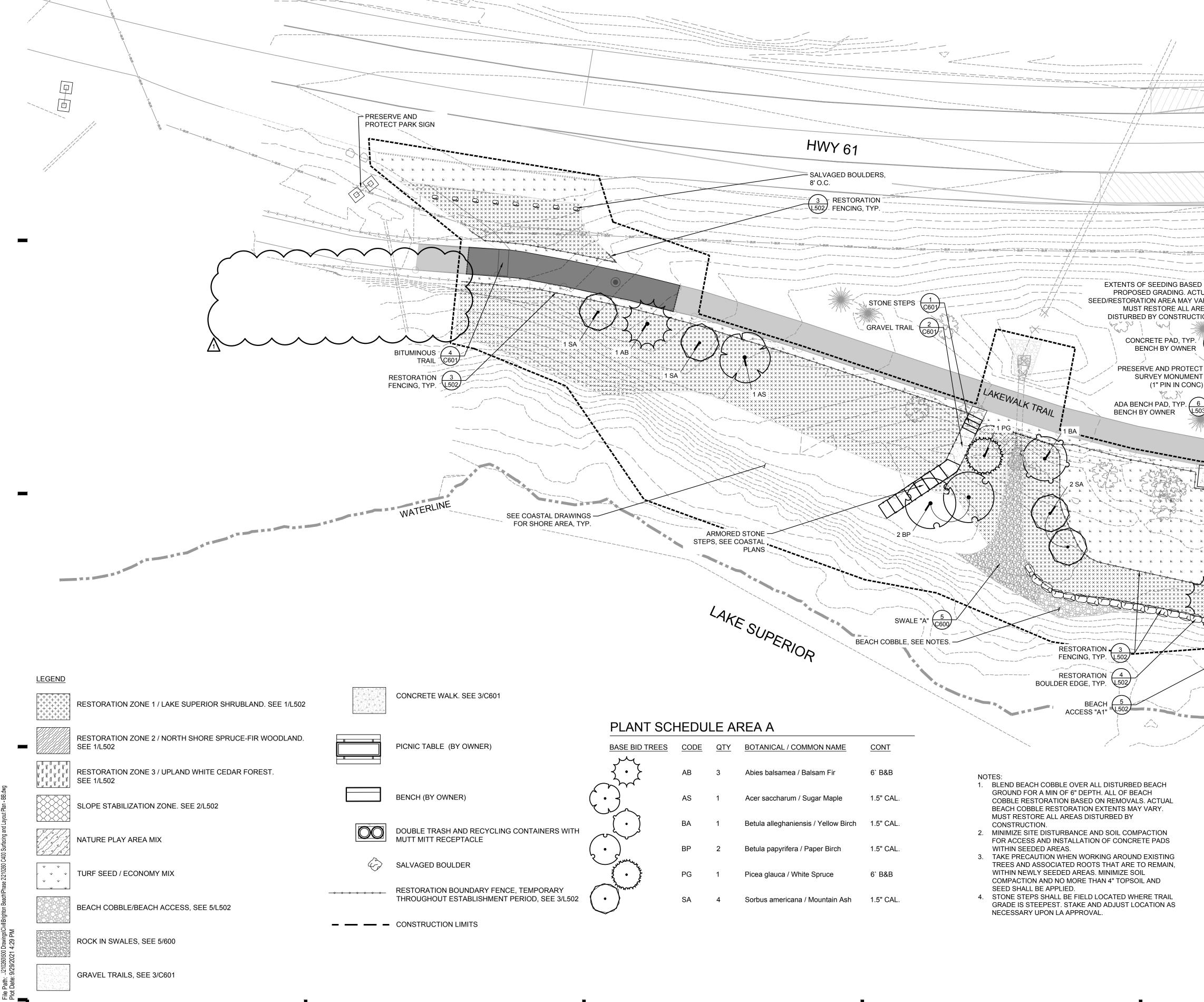
## PROJECT NAME: **BRIGHTON BEACH** SHORELINE **RESTORATION: PHASE 2 BRIGHTON BEACH ROAD** DULUTH, MN 55804

DRAWING TITLE: GRADING AND DRAINAGE AREA A

DRAWN BY: MAG CHECKED BY: HSB PROJ. NO: 210260 DRAWING NO:









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WARNING

LOCATION OF ALL UNDERGROUND

UTILITIES SHALL BE VERIFIED BY

THE CONTRACTOR.

CALL BEFORE DIGGING

MINNESOTA

ONE-CALL SYSTEM

1-800-252-1166

REQUIRED BY

MN STATUTE 216D

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CONSULTANT #1: AMI CONSULTING ENGINEERS 91 MAIN ST SUPERIOR, WI 54880

## CLIENT: CITY OF DULUTH PARKS AND RECREATION

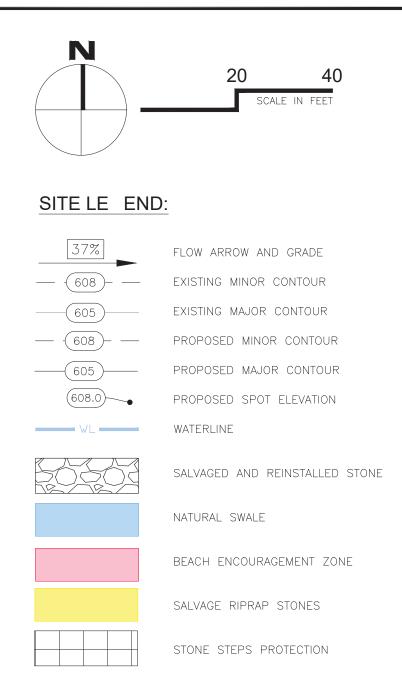
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  NO	DATE	REVISION
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		_ REG. NO.: <u>58568</u> 3, INC. ALL RIGHTS RESERVED.
SHC RES BRIG	GHTO DRELI STORA	ATION: PHASE BEACH ROAD
	FACIN	IG, LAYOUT, AND TION PLAN AREA
DRAWN B CHECKED PROJ. NO	BY: HSB	C401

DRAWING NO:







### ENERAL RADIN AND DRAINA E N TES:

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE BEFORE BEGINNING SITE GRADING ACTIVITIES.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIAL TO BE HANDLED, AND FOR THE AMOUNT OF GRADING TO BE DONE. ALL COSTS ASSOCIATED WITH IMPORTING SUITABLE MATERIAL AND EXPORTING UNSUITABLE/EXCESS/WASTE MATERIAL SHALL BE INCLUDED IN THE BID PRICE.
- 3. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL UNLESS OTHERWISE DIRECTED.
- MAINTAIN TEMPORARY PROTECTION MEASURES DURING CONSTRUCTION ACTIVITIES. PROVIDE ADDITIONAL PROTECTION AS NECESSARY AS WORK PROGRESSES.
- 5. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE TO FINISHED SURFACE GRADE.
- 6. NO GRADED SLOPES SHALL EXCEED 3:1 (HORIZONTAL TO VERTICAL) UNLESS OTHERWISE NOTED.
- 7. UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AND PROVIDE A SMOOTH FINISHED SURFACE WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN OR BETWEEN SUCH POINTS AND EXISTING GRADES.
- 8. LIMIT THE DISTURBED AREA AS MUCH AS POSSIBLE AND CONDUCT GRADING OPERATIONS IN A MANNER TO MINIMIZE THE POTENTIAL FOR EROSION.
- 9. CONDUCT GRADING PER MNDOT SPECIFICATIONS 2101, 2105 AND 2112.
- 10. IF EXCESSIVE SEDIMENT PLUMES ARE CREATED, AS DETERMINED BY THE ENGINEER, DURING CONSTRUCTION THE CONTRACTOR SHALL INSTALL A SILT CURTAIN BEFORE PROCEEDING WITH CONSTRUCTION.
- 11. ALL CUT SOIL MUST BE PLACED IN APPROVED STOCKPILE LOCATIONS OR REUSED ON SITE IN APPROVED AREAS.

SHORELINE SUBGRADE CUT/FILL SUMMARY TOTAL CUT 1015 CY TOTAL FILL 0 CY NET CUT/FILL 1015 CY OF CUT EXIMATE CONSTRUCTION QUANTITIES BREAKDOWN SALVAGED STONE 50 CY INSTALLED STONE 200 CY	$\langle \gamma \rangle$	$\mathbf{i}$	$\frown$		\ <u>/1</u> 
TOTAL FILL 0 CY NET CUT/FILL 1015 CY OF CUT ESTIMATE CONSTRUCTION QUANTITIES BREAKDOWN SALVAGED STONE 50 CY				CUT/F	-111
NET CUT/FILL 1015 CY OF CUT ESTIMATE CONSTRUCTION QUANTITIES BREAKDOWN SALVAGED STONE 50 CY	TOTAL CUT		1015	CY	5
ESTIMATE CONSTRUCTION QUANTITIES BREAKDOWN SALVAGED STONE 50 CY	TOTAL FILL		0 C	Y	
CONSTRUCTION QUANTITIES BREAKDOWN salvaged stone 50 cy	NET CUT/FILL		1015 CY	OF CUT	
					_
	INSTALLED S	STONE			_
TOE STONES 60 EA	TOE STON	NES			-
SELECT ROCK STEP 10 EA			10	EA	-
STONE ANCHORS 60 EA	STONE ANO	HORS	60	EA	

Consulting Engineers P.A. 91 MAIN STREET SUPERIOR, WI 715-718-2193 - amiengineers.com TWIN CITIES - IRON RANGE							
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:       RYAN DAGGER         NAME:       RYAN DAGGER         SIGNATURE:       STATE OF MINNESOTA         DATE:       S/11/2023         LIC. NO:       59389							
BY:							
REV. BY:	RRD	RRD					
DESCRIPTION	ISSUED FOR BID	ADDENDUM 01 - GRADING ADJUSTMENT					
REV:	0	01					
DATE:	5/11/2023	5/25/2023					
STATE DISASTER REPAIRS	STATE DISASTER REPAIRS BRIGHTON BEACH CITY OF DULUTH DULUTH, MN PROPOSED PLAN AREA A						
DA DF	JOB No: 231016 Date: 5/11/2023 Drawn by: MTL						
	DESIGNED BY: RRD SHEET: CH2.0.0						