



**CITY OF DULUTH, MN
REQUEST FOR PROPOSALS FOR**

**Construction Administration for
2025 Lead Water Service Replacement Projects**

Issued August 22, 2024

Solicitation Number: 24-99668

**Proposals Due: October 10, 2024
2:00 PM Central Time**

PROJECT OVERVIEW

The City of Duluth is interested in retaining a consultant to provide Construction Engineering Support Services (Construction Administration) for its major Lead Service Line Replacement (LSLR) Projects in 2025.

BACKGROUND

The City intends to move forward with several city-wide LSLR projects in 2025 based on a combination of consultant prepared design plans. The projects include the following LSLR projects which will be bid in packages for construction as follows:

Construction Bid Package 1.

- a. Lincoln Park 2 LSLR (City Project No. 2082)
 - i. Includes approximately 140 LSLRs
- b. Lincoln Park 3 LSLR (City Project No. 2214)
 - i. Includes approximately 230 LSLRs

Construction Bid Package 2.

- a. Lincoln Park 4 LSLR (City Project No. 2249)
 - i. Includes approximately 500 LSLRs

Construction Bid Package 3.

- a. Hillside 1 LSLR (City Project No. 2215)
 - i. Includes approximately 280 LSLRs

Construction Bid Package 4.

- a. Fairmont 1 LSLR (City Project No. 2248)
 - i. Includes approximately 500 LSLRs

In general, the plans in each bid package includes individual site plans for lead water service replacements located at residential properties, homes, and/or facilities. Some homes and facilities will have service lines replaced from the curb stop to the internal building connection to the water meter and some will have service lines replaced from the corporation stop on the watermain to the internal building connection to the water meter. Replacing some lead water services requires short water main extensions. A Reference Plan Set is provided as an attachment to this RFP that shows typical plan sheet layouts, units of measurements, standard details, etc. for the proposer's information.

The City's general engineering requirements related to construction inspection, shop drawing review etc. can be found in the City's Engineering Guidelines for Professional Engineering Services and Developments (<https://duluthmn.gov/media/15002/engineering-guidelines-2023-draft.pdf>). For the purposes of this project, the City's expectations for administration, documentation, quantity tracking, inspection, etc. shall be consistent with the best practices and procedures described in the MnDOT State Aid Manual and website (<https://www.dot.state.mn.us/stateaid/construction.html>) for municipal projects.

The selected consultant will provide a Project Principal, Construction Engineer / Project Manager, Chief Inspectors, Inspectors, and Assistant Inspectors and is responsible for the overall construction administration and inspection of the projects. The consultant inspection team will work under the coordination of the City Project Engineer and Project Supervisor.

The City's goals for this Construction Engineering Support Services (Construction Administration) project are:

- Ensure compliance of the Work with the project Plans and Specifications.
- Provide construction staff with the experience and knowledge to provide proactive, independent-decision making for the timely response/resolution of contractor questions and to address field changes.
- Accurately track and record field quantities, take field measurements, maintain accurate project construction documentation, and provide accurate as-built information and record drawings; and,
- Promote effective communication and collaboration with the Contractor, residents, owners, public, and City staff to facilitate project completion on time and within budget.

The City of Duluth will provide the following to the awarded consultant(s):

- Project Plans and Special Provisions including addenda
- Assistance in obtaining other related information in City files pertaining to the project if needed.
- Materials Testing (the selected Consultant will coordinate with the City's designated materials testing agency / geotechnical consultant).

QUESTIONS & ANSWERS

Any questions regarding this RFP must be submitted by e-mail to the Purchasing Office at purchasing@duluthmn.gov. Answers to the questions will be posted as an Addendum to the RFP.

ADDENDA TO THE RFP

If the City deems it necessary to revise any part of this RFP before the proposal response date, the City will post an addendum to its website <http://www.duluthmn.gov/purchasing/bids-request-for-proposals/>. Although an e-mail notification will be sent, it is the Consultant's responsibility to periodically check the website for any new information

SMALL DIVERSE BUSINESS INFORMATION

The City encourages participation by minority, women, and veteran-owned businesses as prime contractors, and encourages all prime contractors to make a significant commitment to use minority, women, veteran-owned and other disadvantaged business entities as subcontractors and suppliers. A list of certified Disadvantaged Business Enterprises is maintained by the Minnesota Unified Certification Program at <http://mnucp.metc.state.mn.us/>.

MANDATORY DISCLOSURES

By submitting a proposal, each Bidder understands, represents, and acknowledges that:

- A. Their proposal has been developed by the Bidder independently and has been submitted without collusion with and without agreement, understanding, or planned common course of action with any

other vendor or suppliers of materials, supplies, equipment, or services described in the Request for Proposals, designed to limit independent bidding or competition, and that the contents of the proposal have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder.

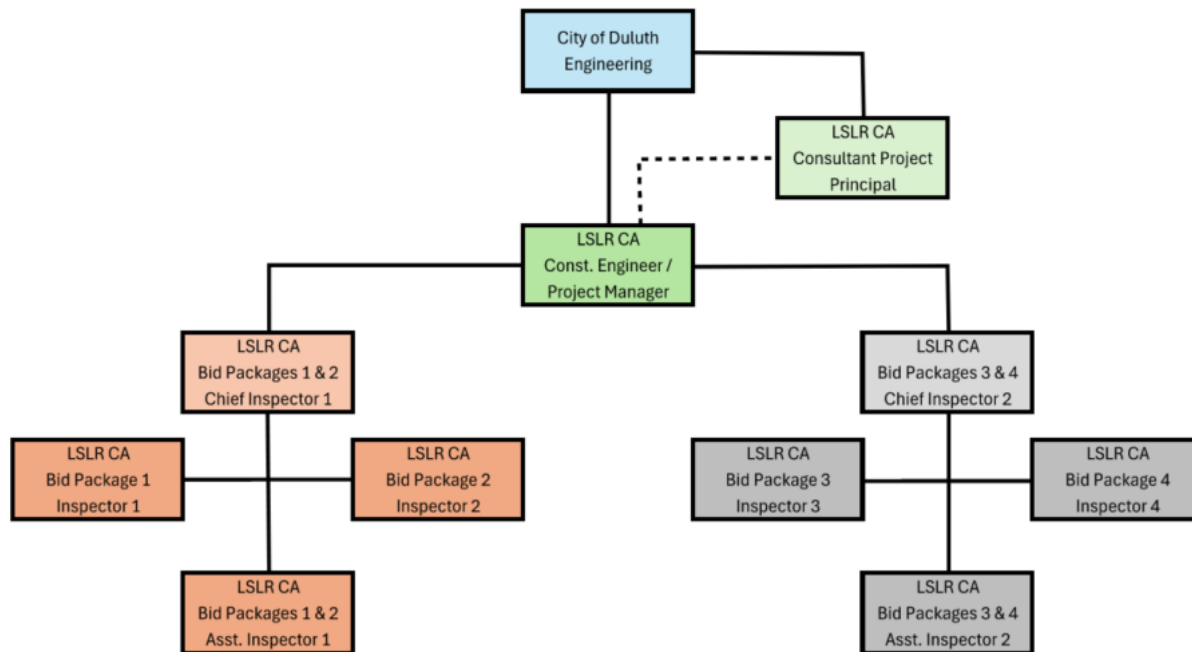
B. There is no conflict of interest. A conflict of interest exists if a Bidder has any interest that would actually conflict, or has the appearance of conflicting, in any manner or degree with the performance of work on the project. If there are potential conflicts, identify the municipalities, developers, and other public or private entities with whom your company is currently, or have been, employed and which may be affected.

C. It is not currently under suspension or debarment by the State of Minnesota, any other state or the federal government.

D. The company is either organized under Minnesota law or has a Certificate of Authority from the Minnesota Secretary of State to do business in Minnesota, in accordance with the requirements in M.S. 303.03.

GENERAL PROJECT SCOPE

Consulting Construction Engineering Services are expected to include all work necessary to provide construction administration, construction engineering, and engineering inspection / on-site observation. In general, the City anticipates the following project team organization:



The City prefers a single consultant contract for the construction administration and inspection tasks identified in this RFP. However, the City will review and reserves the right to accept proposals from consultants to perform the construction administration and inspections tasks for both Bid Packages 1 & 2 **AND** Bid Packages 3 & 4; Bid Packages 1 & 2 only; **OR** Bid Packages 3 & 4 only. The consultant shall accordingly identify the basis for their proposal in their submitted proposal.

The City of Duluth will perform the following tasks:

- Participate in the preconstruction meeting.
- Review shop drawings.
- Review contract document clarifications as required.
- Review contract change order requests.
- Review and provide feedback on the Contractor submitted construction progress schedule.
- Process progress pay requests.
- Participate in weekly construction meetings.
- Participate in final and warranty inspections.
- Coordinate with the Project Engineer / Project Manager.

The selected consultant will serve as the Project Engineer and shall be responsible for the following:

- Provide experienced personnel on-site with the necessary experience and training to oversee and manage the construction administration of the project to assure the Work is monitored properly, to ensure conformance of the Work with the plans and specifications and perform all project Engineer duties per MnDOT 1501 and 1509; all Inspection duties per MnDOT 1510; and the City of Duluth Standard Construction Specifications except as modified or otherwise specified in this RFP. Duties shall include, but are not limited to, the following:
 - Serve as the principal point of contact with the Contractor for ensuring contract compliance.
 - Act as the project liaison with property owners and stakeholders.
 - Plan, direct, and coordinate the efforts of the project construction administration team.
 - Supervise and guide project staff, ensuring continuous inspection of workmanship, materials, and methods.
 - Interpret and enforce contract provisions.
 - Interpret and clarify project plans, specifications, and designs to maintain the project schedule, scope, and quality standards.
 - Review and approve shop drawings.
 - Process contract change order requests.
 - Prepare monthly progress payments.
 - Anticipate issues and recommend necessary adjustments to project plans and specifications.
 - Ensure that construction schedules are adhered to and monitor contractor performance against project plans and specifications.
 - Prepare agendas and minutes for and lead weekly construction meetings.
 - Handle daily correspondence and reporting on project issues and concerns.
 - Ensure uniform and quality record-keeping practices in accordance with City / MnDOT standards and expectations and the efficient use of resources.
 - Maintain and Prepare Project as-builts
 - Prepare and process all project warranty inspections, punchlists, and project close out documentation

The selected consultant will serve as the on-site Inspector and shall be responsible for the following:

- Provide experienced personnel on-site with the necessary experience and training to inspect the construction of the project to assure the Work is monitored properly, to ensure conformance of the Work with the plans and specifications and perform all Inspector Duties per MnDOT 1510 and the City of Duluth 2019 Standard Construction Specifications except as modified or otherwise specified in this RFP. Duties shall include, but are not limited to, the following:
 - Attend the preconstruction meeting and review meeting minutes.
 - Review shop drawings.
 - Prepare contract change order requests.
 - Review and provide comment on the Contractor submitted construction progress schedule.
 - Be in direct communication with the general Contractor to schedule and arrange for on-site inspection staffing.

- Observe all aspects of the construction. Take regular photos of the work to document progress and field conditions.
- Collect survey-grade GPS points on existing and constructed utilities in excavations and at the surface and submit weekly.
- Develop an inspection documentation solution in coordination with existing City standard practices and submit records weekly
- Monitor the Contractor's performance and quality/ conformance of materials utilized in the Work.
- Prepare daily and weekly inspection records and submit weekly.
- Inspect erosion and sediment control measures for compliance with the project SWPPP.
- Provide a brief daily e-mail to the City Project Engineer / City at the end of each workday summarizing the work completed, issues encountered, and what work is anticipated the next day.
- Serve as the initial point of contact for all resident / owner concerns. Answer questions and assist in resolving issues and concerns (based on consultation with City) from impacted property owners.
- Coordinate on-site materials testing with the City's material testing agency.
- Immediately notify the Engineer / City of non-conforming work or safety violations.
- Prepare and enter monthly progress payments using the City's RT Vision/One Office system.
- Prepare agenda, lead, and prepare timely minutes for weekly construction meetings between the Contractor, Owner(s), Engineer, and other interested parties such as utility owners, permitting agencies and area residents.
- Provide as-built survey and record drawings/as-builts including water service cards.
- Conduct, prepare, distribute, and verify/track project final inspection punch list.
- Conduct, prepare, and complete One-Year warranty inspection.
- Provide all construction deliverables and project documentation including, but not limited to, field logs and computations, survey files and data, meeting minutes, project correspondence, as-builts/record drawings, punch list, and warranty inspection reports.

Specified contract dates for the project bid packages are anticipated to indicate a construction start date of approximately April 15, 2025, and a project completion date of October 17, 2025. All proposals shall assume full time inspection of the projects based on a 6-day work week (Monday – Saturday) and 10 hours of inspection hours per day.

The City anticipates that the Contractor(s) for these projects will have multiple crews operating to complete the work per project. The consultant shall provide Inspectors (Chief Inspector, Inspectors, and Assistant Inspectors) which shall be assigned as needed to the Contractor's crew(s) as directed by the City's Project Engineer / Supervisor and/or as required to ensure that critical operations are properly administered and inspected per the requirements of this RFP.

The Consultant Project Principal is expected to be a member of the engineering firm(s) senior management that has the authority and duty to ensure that the consultant construction administration team has the field and administrative personnel, resources, and capacity to fulfill the requirements of the Contract. The Project Principal will be in regular contact with the consultant's Project Engineer / Project Manager to verify the progress of the project, ensure the quality of project documentation and

deliverables, and provide general oversight of the project. The Project Principal is not expected to be in day-to-day communication with the City or to be actively involved in the day-to-day administration of the project. Monthly check-in meetings with the City, Consultant Project Engineer / Project Manager, and the Project Principal to verify successful prosecution of the Contract and consultant resource allocation should be anticipated.

The Construction Engineer / Project Manager is expected to have a minimum of six (6) years of experience, including extensive knowledge of roadway and utility construction methods, materials, standards, and specifications. This includes a strong working knowledge of MnDOT State Aid municipal and City of Duluth Construction Standards. The Construction Engineer will oversee general project construction administration, including the management and supervision of inspection staff and will ensure that construction activities comply with all relevant standards and specifications. The Construction Engineer / Project Manager will be responsible for resolving the complex issues that arise during construction, making critical field adjustments based on engineering principles, and providing clear and effective communication with contractors, residents, utility owners, and the public. The Construction Engineer / Project Manager shall serve as the Quality Assurance Manager with respect to consultant's QMP for ensuring the adequacy, consistency, and compliance of project records and documentation. The Construction Engineer / Project Manager is expected to be in day-to-day communication with the City and to provide regular updates on project status and progress. The Construction Engineer / Project Manager is expected to be dedicated to the project in a full-time role during the duration of the construction season identified in the RFP.

The Chief Inspector is expected to have a minimum of (4) four years of inspection experience (or equivalent) including a working knowledge of roadway and utility construction methods, materials, standards and specifications; working knowledge of MnDOT and City of Duluth Construction Standards; and knowledge in the use of RT Vision / One Office construction management software. The Chief Inspector is expected to have the ability to provide technical supervision and leadership to the Inspectors; read and interpret the plans and contract specifications; apply engineering principles to determine field adjustments; and communicate effectively with contractor personnel, residents, utility owners, and the public. The Chief Inspector shall verify lines, grades dimensions, and elevations using survey equipment to ensure conformance with the plans and to prepare the project record drawings and as-built records. The Chief Inspector shall make field measurements of pay items and is responsible for the preparation and maintenance of detailed project records including daily and weekly diaries, as-built plans, and pay quantity records. The Chief Inspector shall assist in the preparation of monthly progress payments and the development of change orders. The Construction Chief Inspector shall serve in Quality Control roles with respect to consultant's QMP for ensuring the adequacy, consistency, and compliance of project records and documentation. Experience with designing and/or inspecting a comparable LSLR project(s) is highly desired. Knowledge of residential and commercial building construction and plumbing is highly desired.

The Inspector is expected to have a minimum of two (2) years of inspection experience (or equivalent) including a working knowledge of roadway and utility construction methods, materials, standards and specifications; working knowledge of MnDOT and City of Duluth Construction Standards; and knowledge in the use of the City's RT Vision / One Office construction management software. The Inspector is expected to have the ability to read and interpret the plans and contract specifications; to contact and coordinate with the Chief Inspector to determine field adjustments; and communicate effectively with

contractor personnel, residents, utility owners, and the public. The Inspector shall verify lines, grades dimensions, and elevations using survey equipment to ensure conformance with the plans and to prepare the project record drawings and as-built records. The Assistant Inspector shall make field measurements of pay items and is responsible for the preparation and maintenance of detailed project records including daily and weekly diaries, as-built plans, and pay quantity records. Under the guidance of the Chief Inspector, the Inspector shall assist in the preparation of monthly progress payments and the development of change orders. Experience with designing and/or inspecting a comparable LSLR project(s) is highly desired. Knowledge of residential and commercial building construction and plumbing is highly desired.

The Assistant Inspector will work under the direct supervision of the Inspector and will assist with various inspection-related tasks. This role is intended for individuals with at least one year of experience or equivalent education in engineering and construction methods, making it suitable for a college intern or entry-level professional. The assistant inspector is helping the inspector with appropriate delegated tasks including basic inspection duties, quantity measurements, recordkeeping, or other duties, as assigned.

Detailed resumes for the Principal, Construction Engineer/Project Manager, Chief Inspectors, and Assistant Inspectors including years of relevant experience, key project experience, education, certifications, and training should be provided. Chief Inspectors and Inspectors are expected to have current MnDOT Technical Certifications for Aggregate Production, Bituminous Street, Concrete Field, Concrete, and Grading and Base.

The selected consultant will be required to separately track and bill hours by each City project number worked on for all consultant staff. The consultant will prepare a project specific Quality Management Plan (QMP). The Consultant's QMP shall outline and prescribe who, what, when and how quality control and quality assurance activities will be performed on the project to ensure high quality and accurate field documentation, recordkeeping, testing, identification of non-conforming work, change orders, and progress payments are provided to ensure conformance with the plans and specifications, of project budget(s), and management/facilitation of project schedules.

All work shall be performed in accordance with the most recent versions of the City Standard Specifications and Engineering Guidelines; both are available on the City of Duluth website at <https://duluthmn.gov/engineering/>.

SCOPE OF SERVICES

1. Construction Administration

- a. The consultant shall provide project management for the project including general coordination of staff, attendance of the preconstruction meeting, project setup, review of the plans and specifications, and shop drawing review.
- b. Project management services provided by the Consultant shall include, but not be limited to the following: coordination, contract management, invoicing, etc.

- c. Construction administration services shall be based upon an assumed construction duration of 27 weeks (assumed April 14, 2025 – October 17, 2025) and a total of 60 hours per week (total hours = 1620) for the Construction Engineer / Project Manager.
 - i. If the proposer chooses to provide a proposal for Bid Packages 1 & 2 only **OR** for Bid Packages 3 & 4 only, the proposer should assume that the Construction Engineer / Project Manager role will require at least (a minimum) of 75% of the assumed hours for this position provided in this section (i.e. 75% x 1620 hrs = 1215 hrs).

2. Construction Inspection

- a. The Consultant shall provide all documents and services to provide full time construction inspection services for final completion and acceptance of the street utility improvements including the completed construction documentation (quantity calculations, field measurements, change order preparation, schedule review, daily and weekly inspection records, preparation of monthly progress payments, final inspection and punchlist, warranty inspection and report, survey files and data, record drawings, water service cards, and final records). The proposal shall be based upon 27 weeks of construction (assumed April 14, 2025 – October 17, 2025) and a total of 60 hours per week of inspection (total hours = 1620) for the Chief Inspectors, Inspectors, and Assistant Inspectors.
- b. In the event of vacation or other circumstances necessitating time off by the Chief Inspectors or Inspectors, the consultant shall be prepared to provide staff of **equal or better experience and qualifications** to serve in the absence of such key personnel. Vacation or planned out of the office time must be arranged at three (3) weeks in advance with the City. In addition, detailed resumes indicating experience and qualification of such temporary staff shall be provided three (3) weeks in advance for review and acceptance by the City.

PROJECT COMPLETION DATES

August 22, 2025	RFP Issued
October 10, 2025	Proposals Due
November / December 2025	Council Approval to Award Contract(s)
March 2025	Begin Construction Administration Work (Project Setup, Plan and Shop Drawing Review, Etc.)
April 14, 2025	Start Construction
October 17, 2025	Construction Completion
June 2026	Final Warranty Inspection
August 2026	Final As-Builts, Close Out Documentation

This schedule is subject to change if interviews are held prior to selection of consultant(s).

QUALIFICATION PROPOSAL CONTENTS

To be considered, hard copies of proposals must arrive at the City on or before the time and date specified in the RFP. The proposal shall be submitted in the following format broken into the 5 sections identified below. Proposals not following the specified format will not be reviewed. No additional sections or appendices are allowed. The proposal shall be limited to 15 pages plus a cover letter (The page limit includes all resumes. Proposals that exceed this limit will not be reviewed. Dividers and covers are not included in the page limitation). The use of 11 x 17 sheets for the work plan, cost proposal, and/or exhibits is acceptable. The proposal format shall be as follows:

1. Goals and Objectives

A restatement of the goals and objectives and the project tasks to demonstrate the responder's view and understanding of the project.

2. Experience

An outline of the responder's background and experience with similar projects. Prior work with the City of Duluth including knowledge of City standards, specifications, and best practices are considered essential for this project. Consultants should include lead service replacement projects and projects where there is extensive interaction with residents. Project descriptions shall include a list key staff and their role.

3. Personnel

Identify personnel to conduct the project and detail their work experience. Identify how personnel proposed for this project were involved with the projects listed as experience. No change in personnel assigned to the project will be permitted without approval of the City.

4. Work Plan

The proposer shall complete the provided work plans for the work tasks to be accomplished and the budget hours to be expended on each task. The work plan shall be submitted in the provided spreadsheet format and for each task and the number of hours for each staff person on that task.

Do NOT include any costs in the work plan.

5. References

References may be requested prior to final consultant selection and do not need to be included.

COST PROPOSAL CONTENTS

Provide, in separate **SEALED** envelope, one copy of the cost proposal (**utilizing the provided cost proposal template**), clearly marked on the outside "Cost Proposal" along with the responder's official business name and address. Terms of the proposal as stated must be valid for the project length of time.

For each proposal, the consultant must include a not-to-exceed total project cost. The cost proposal shall include all of the following:

- A cover/transmittal letter

- A breakdown of the hours by task for each employee. This shall be in the same format as the provided work plan in the Qualifications proposal with the addition of costs.
- Hourly rates for each specific employee proposed (not general rates by category).
- Identification of anticipated direct expenses and rates for miscellaneous charges such as mileage and copies.
- Identification of any assumption made while developing this cost proposal.
- Identification of any cost information related to additional services or tasks. Include this in the cost proposal but identify it as additional costs and do not make it part of the total project cost.
- The Consultant must have the cost proposal/cover letter/transmittal signed in ink by a member of the firm authorized to bind the company into a contract, and the attached Appendix A completed.
- The consultant must not include any cost information within the body of the RFP qualification proposal response.

SELECTION

The proposals will be reviewed by City Staff. The intent of the selection process is to review proposals and make an award based upon qualifications as described herein. A 100-point scale will be used to create the final evaluation recommendations. The factors and weighting on which proposals will be judged are:

	Item	Percent
1	Goals and Objectives	10%
2	Experience	20%
3	Personnel	30%
4	Work Plan	20%
5	Project costs/fees	20%

Proposals will be evaluated on a best value basis with 80% qualifications and 20% cost consideration. The review committee will not open the cost proposal until after the qualification points have been awarded. **The City reserves the right to interview Consultants (in-person or virtually) prior to making a final decision.**

SUBMITTAL DATE

Submit one (1) paper copy of the Proposal and one (1) paper copy of the Cost Submittal in an envelope marked, **24-99668 Construction Administration for 2025 Lead Water Service Replacement Projects**. In addition, Proposers shall submit one (1) copy of the entire proposal (Proposal and Cost Submittal, along with all requested documents) on a flash drive in Microsoft Office-compatible or pdf format by 2:00 PM central time, October 10, 2024 to:

Purchasing
City Hall Room 120
411 West 1st Street
Duluth, MN 55802

CONTACT

All questions concerning the project shall be directed to:

Brad Scott, Senior Engineer
City of Duluth - Engineering Division
411 W. 1st Street, Room 230 City Hall
Duluth, Minnesota 55802-1191
bscott@duluthmn.gov
(218) 730-5025

LIMITATIONS

This Request for Proposal does not commit the City of Duluth to award a contract or pay costs incurred in the preparation of the proposal, or to procure a contract for services or supplies.

The Proposal shall not in any way include any restrictions on the City of Duluth. The Consultant shall NOT provide proposed contract language.

The City of Duluth specifically reserves the right to accept or reject any or all proposals, to negotiate with any qualified source, to cancel in part or in its entirety the Request for Proposal, to waive any requirements, to investigate the qualifications of any proposal, to obtain new proposals, or proceed to have the service provided in any way as necessary to serve the best interests of the City of Duluth. The City is not liable for any costs the Consultant incurs in preparation and submission of its proposal, in participating in the RFP process or in anticipation of award of the contract.

The selected consultant must sign the City of Duluth standard Professional Engineering Services Agreement, a sample of which is available at <https://duluthmn.gov/purchasing/forms/>. Any questions concerning this agreement should be asked PRIOR to proposal submittal. These questions should be directed to the City Engineering Office.

All materials submitted in response to this RFP will become property of the City and will become public record after the evaluation process is completed and an award decision made.

Prior to entering into an agreement with the city, the consultant shall furnish proof that it has all legal requirements for transacting business in the State of Minnesota.

APPENDICES

Appendix A – Proposal Cover Sheet

Appendix B – Federal Supplemental Provisions

Appendix C – Byrd Anti-Lobbying Certificate: The completed certificate must be submitted with your proposal.

ATTACHMENTS

Attachment 1 – Work Plan & Cost Proposal Template-Separate Excel Document

Attachment 2 – Project Areas Map

Attachment 3 – LSLR Reference Plan Set

APPENDIX A - PROPOSAL COVER SHEET
CITY OF DULUTH
RFP# 24-99668
RFP Construction Administration for 2025 Lead Water Service Replacement Projects

Bidder Information:	
Bidder Name	
Mailing Address	
Contact Person	
Contact Person's Phone Number	
Contact Person's E-Mail Address	
Federal ID Number	
Authorized Signature	
Name & Title of Authorized Signer	
Email of Authorized Signer	

APPENDIX B
City of Duluth
Supplementary Provisions – State & Federal Funding
RFP# 24-99668
RFP for Construction Administration for 2025 Lead Water Service Replacement Projects

1. Disbursements

- a. No money under this Contract shall be disbursed by the City to any Contractor unless the Contractor is in compliance with the Federal Agency requirements with regard to accounting and fiscal matters to the extent they are applicable.
- b. Unearned payments under this Contract may be suspended or terminated upon the Contractor's refusal to accept any additional conditions that may be imposed by the Federal Agency at any time; or if the grant, if applicable, to the City under which this Contract is made is suspended or terminated.

2. Subcontracting Requirements

- a. The Contractor shall include in any subcontract the clauses set forth in these City of Duluth Supplementary Provisions in their entirety and shall also include a clause requiring the subcontractors to include these clauses in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.
- b. The Contractor shall not subcontract any part of the work covered by this Contract or permit subcontracted work to be further subcontracted without the City's prior written approval of the subcontractors. The City will not approve any subcontractor for work covered by this Contract who is at the time ineligible under the provisions of any applicable regulations issued by a Federal Agency or the Secretary of Labor, United States Department of Labor, to receive an award of such subcontract.

3. Termination

If the Contractor is in breach of the Contract, the City, by written notice to the Contractor, may terminate the Contractor's right to proceed with the Work. Upon such termination, the City may take over the Work and prosecute the same to completion, by contract or otherwise, and the Contractor and its sureties shall be liable to the City for any additional cost incurred by the City in its completion of the Work and they shall also be liable to the City for liquidated damages for any delay in the completion of the Work as provided below. If the Contractor's right to proceed is terminated, the City may take possession of and utilize in completing the Work such materials, tools, equipment, and plant as may be on the site of the Work and necessary therefore.

City shall have the right to terminate this contract immediately without other cause in the event that all or a portion of the funds that the City intends to use to fund its obligations under the contract have their source with the State or Federal government or any agency thereof and said source reduces or eliminates their obligation to provide some or all of the funds previously committed by it to fund City's payment obligations under the Contract. The City agrees that termination hereunder will not relieve the City of its obligation to pay Contractor for Work satisfactorily performed and reasonable costs incurred prior to the effective date.

Notwithstanding anything herein to the contrary, the City may terminate this Contract at any time upon written notice given by the City (for any reason, including the convenience of the City) to the Contractor at least thirty (30) days prior to the effective date of the termination of this Contract. The City

agrees that termination hereunder will not relieve the City of its obligation to pay Contractor for Work satisfactorily performed and reasonable costs incurred prior to the effective date of the termination provided that Contractor has not committed a breach of this Contract. Nothing contained in this section shall prevent either party from pursuing or collecting any damages to which it may be entitled by law.

4. Workforce Certificate

Contractors for a capital project over \$250,000 funded by General Obligation bonds, Trunk Highway funds or other state funds who have 40 or more full-time employees on a single day during the past 12 months must provide a workforce certification from the commissioner of human rights or certify in writing that the company is exempt. More information is available on the Workforce Certificate Requirement at Minnesota Statutes Section 363A.36 or <https://mn.gov/mdhr/certificates/workforce-certificate/>.

5. Equal Pay Certificate

Contractors for a capital project over \$1,000,000 funded by General Obligation bonds, Trunk Highway funds or other state funds who have 40 or more full-time employees on a single day during the past 12 months must provide an equal pay certificate from the Department of Human Rights or certify in writing that the company is exempt. Bidders may find more information on the Equal Pay Certificate Requirement at Minnesota Statutes Section 363A.44 or at this website: <https://mn.gov/mdhr/certificates/equalpay/>.

6. Equal Employment Opportunity.

During the performance of this contract, the contractor agrees as follows:

- a. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- b. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- c. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- d. The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- e. The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- f. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or

suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions as may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

- g. The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (a) through (g) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.

7. Contracting with Small and Minority Businesses, Women’s Business Enterprises, and Labor Surplus Area Firms.

Per 2 CFR 200.321, prime contractor must take all necessary affirmative steps to assure that minority businesses, women’s business enterprises, and labor surplus area firms (collectively referred to as socioeconomic firms) are used when possible. The affirmative steps must include:

- a. Placing qualified socioeconomic firms on solicitation lists;
- b. Assuring that socioeconomic firms are solicited whenever they are potential sources;
- c. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by socioeconomic firms;
- d. Establishing delivery schedules, where the requirements permit, which encourage participation by socioeconomic firms; and
- e. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce

8. Davis Bacon Act.

Contractor shall comply with the Davis-Bacon Act (40 U.S.C. 3141–3144, and 3146–3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). Contractor shall pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in the wage decision included as part of the bid solicitation. In addition, contractor shall pay wages not less than once a week.

9. Compliance with the Copeland “Anti-Kickback” Act.

Contractor shall comply with the Copeland “Anti-Kickback” Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). Contractor and any subcontractors are prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled.

10. Contract Work Hours and Safety Standards Act.

Contractor shall comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor

regulations (29 CFR Part 5). Contractor shall compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. Contractor shall ensure that no laborer or mechanic involved in the Work is required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence. In addition, state or local funding sources may impose more strict requirements or higher rates for wages, benefits, and overtime rates. Contractors must review the labor cost bidding data form included with the bid package and compensate workers accordingly.

11. Clean Air Act and Federal Water Pollution Control Act

Contractor shall comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA). Contractor agrees to include this provision in any subcontract exceeding \$150,000 that is financed in whole or in part with Federal funds.

12. Energy Standards.

Contractor shall comply with all mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201).

13. Suspension and Debarment.

This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945. The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into. A contract award must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM.gov), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 19898 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

14. Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended)

Contractors must certify that that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352.

15. Procurement of Recovered Materials.

In the performance of this contract, the Contractor shall comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. This shall include making maximum use of products containing recovered materials as designated by the Environmental Protection Agency (EPA) unless (i) the materials cannot be acquired competitively and within the timeframe required by the contract performance schedule; (ii) the materials designated by the EPA do not meet contract performance requirements; or (iii) the materials cannot be acquired for a reasonable price. Information about this requirement, along with the list of EPA- designated items, is available at the EPA’s

Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program> .

16. Telecommunications and Video Surveillance Services or Equipment

In the performance of this contract, Contractor/Supplier shall comply with Public Law 115-232, Section 889, which prohibits the procurement or use of covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).

For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, use of video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities) is prohibited.

In addition, telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country is prohibited.

17. Domestic Preferences for Procurements

As appropriate and to the extent consistent with law, Contractor shall, to the greatest extent practicable under a Federal award, supply and/or use goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). For purposes of this section, "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States. "Manufactured products" means items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

Contractors shall include the preceding language in all subcontracts.

APPENDIX C – BYRD ANTI-LOBBYING CERTIFICATE
CITY OF DULUTH
RFP# 24-99668
RFP Construction Administration for 2025 Lead Water Service Replacement Projects

The completed certificate must be submitted with your proposal.

BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION
(To be submitted with each bid or offer exceeding \$100,000)

The undersigned, [Company] _____ certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

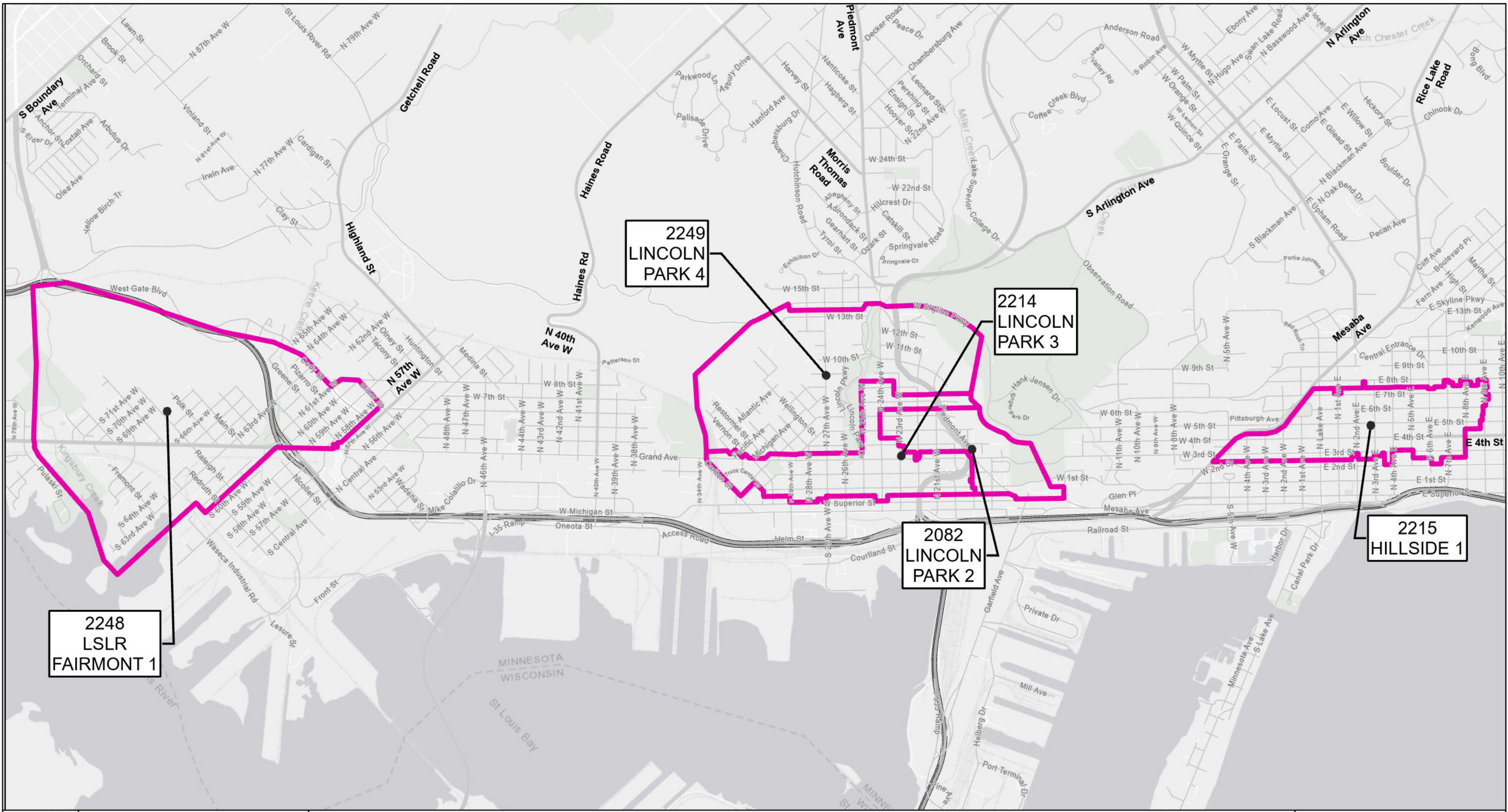
This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, [Company] _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 *et seq.*, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official



































Date
























	<p>0 0.5 Miles</p>	<h1>2025 LEAD WATER SERVICE REPLACEMENT PROJECTS</h1>		
<p>411 W 1st St, DULUTH, MN 55803 PHONE: (218) 730-5000 www.duluthmn.gov</p>		<p>Source: City of Duluth Author: jmaruska Date: 8/16/2024</p>		

The City of Duluth has tried to ensure that the information contained in this map or electronic document is accurate. The City of Duluth makes no warranty or guarantee concerning the accuracy or reliability. This drawing/data is neither a legally recorded map nor a survey and is not intended to be used as one. The drawing/data is a compilation of records, information and data located in various City, County and State offices and other sources affecting the area shown and is to be used for reference purposes only. The City of Duluth shall not be liable for errors contained within this data provided or for any damages in connection with the use of this information contained within. The City of Duluth requires that this map/data not be redistributed to any party in whole or in part, including any derivative works of products generated by combining the data with other data, unless authorized by the City of Duluth GIS office.

WATER MAIN EXTENSION SYMBOLS

-  BUILDING
-  CONCRETE SURFACE
-  5 FOOT CONTOUR
-  1 FOOT CONTOUR
-  CURB & GUTTER
-  GRAVEL SURFACE
-  EASEMENT LINE
-  FENCE LINE
-  LOT LINE
-  VACATED PLAT LINE
-  ROAD RIGHT-OF-WAY LINE
-  OVERHEAD ELECTRIC
-  BURIED ELECTRIC
-  BURIED GAS
-  BURIED SANITARY SEWER
-  BURIED STORM
-  BURIED TELEPHONE
-  BURIED WATER / WATER SERVICE
-  EXISTING STORM MANHOLE
-  EXISTING SANITARY MANHOLE
-  EXISTING CATCH BASIN
-  WATER SHUTOFF
-  WATER VALVE
-  HYDRANT
-  GAS VALVE
-  GAS METER
-  CLEAN OUT
-  CONSTRUCTION LIMITS
-  SODDING TYPE LAWN
-  BITUMINOUS PAVEMENT
-  CONCRETE WALK
-  B624 CONCRETE CURB & GUTTER
-  2" HDPE IPS DR 9 WATER MAIN PIPE
-  1" HDPE SDR 9 SERVICE PIPE (PRIVATE OR PUBLIC)

LSLR SITE REPLACEMENT SYMBOLS

-  EXISTING WATER MAIN
-  EXISTING WATER SERVICE
-  EXISTING SERVICE TO BE ABANDONED
-  EXISTING GAS MAIN
-  EXISTING GAS SERVICE
-  EXISTING SANITARY MAIN
-  EXISTING SANITARY SERVICE
-  EXISTING STORM
-  EXISTING BURIED ELECTRIC
-  EXISTING BURIED TELE/FIBER OPTIC
-  EXISTING CURB STOP
-  EXISTING WATER VALVE
-  EXISTING GAS SERVICE CONNECTION
-  EXISTING GAS METER
-  EXISTING SANITARY MANHOLE
-  EXISTING STORM CATCH BASIN
-  EXISTING STORM MANHOLE
-  EXISTING LIGHT POLE
-  EXISTING ELEC MANHOLE
-  ROUTE INTERIOR PLUMBING
-  1" HDPE SDR 9 SERVICE PIPE

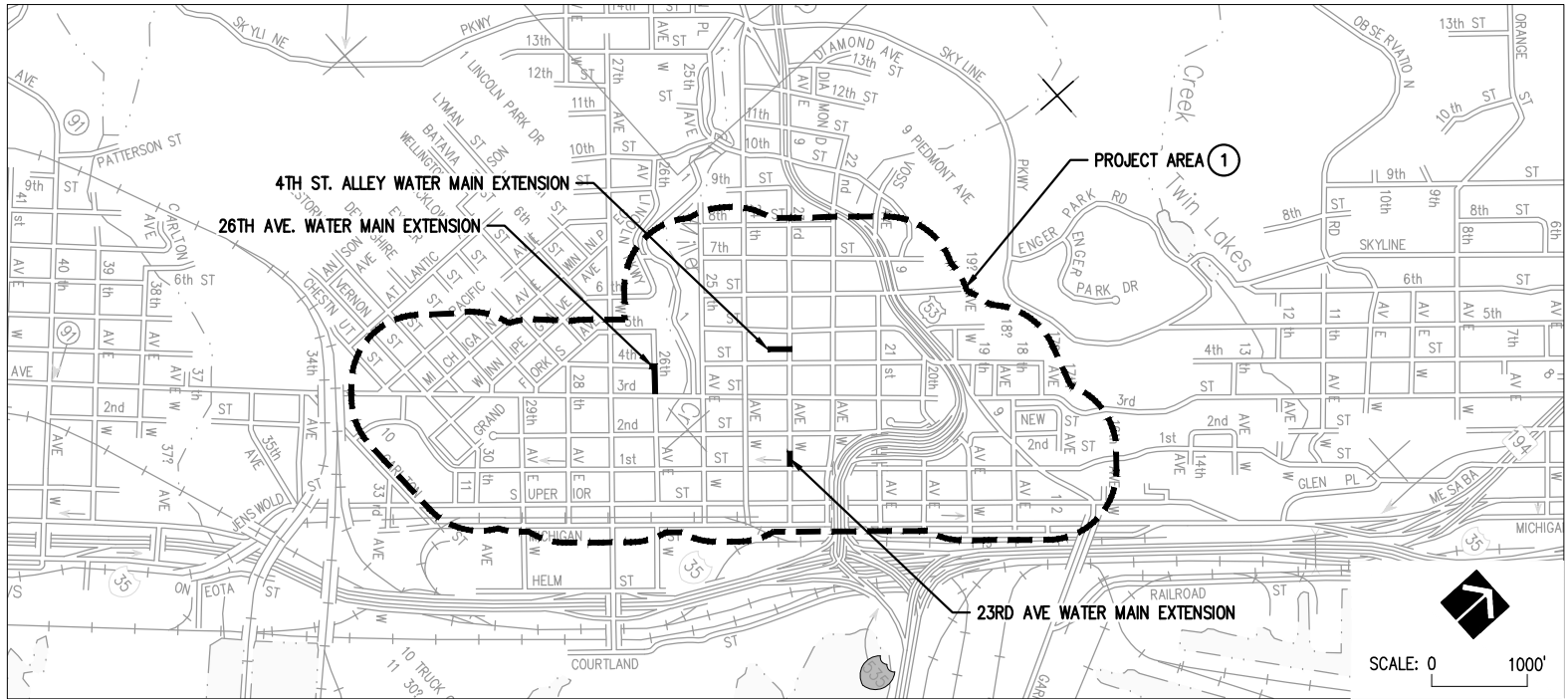
CITY OF DULUTH
DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION

CONSTRUCTION PLAN FOR LEAD SERVICE LINE REPLACEMENT (LSLR) - LINCOLN PARK 3

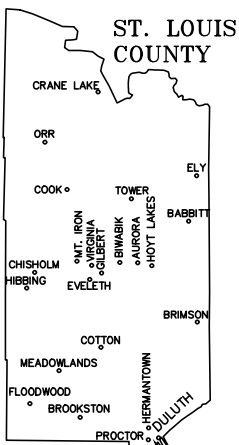
LEAD WATER SERVICE LINE REPLACEMENT, GRADING, BASE, ROADWAY PAVEMENT,
SIDEWALK, CURB & GUTTER, AND WATER MAIN EXTENSIONS

LOCATION

LINCOLN PARK NEIGHBORHOOD



WARNING
LOCATION OF UNDERGROUND UTILITIES
TO BE VERIFIED BY CONTRACTOR.
CALL BEFORE DIGGING.
GOPHER STATE ONE CALL
811 OR 1-800-252-1166
REQUIRED BY LAW



PROJECT LOCATION

KEY NOTE:

1 REFER TO SHEET INDEX MAP FOR INDIVIDUAL LSLR SITE LOCATIONS.

UTILITY NOTE:

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".



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

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION
"STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL
SPECIFICATIONS" DATED SEPTEMBER 2022, SHALL GOVERN.

THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT ENGINEERING DIVISION
2019 EDITION STANDARD CONSTRUCTION SPECIFICATION SHALL APPLY.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MNTCD, INCLUDING
THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX MAP
I1-I15	SITE INDEX PLANS
Q1	STATEMENT OF ESTIMATED QUANTITIES
N1	NOTES
C1-C21	CHARTS
D1-D14	CONSTRUCTION DETAILS
E1-E2	EROSION CONTROL & SWPPP
S1-S222	SERVICE REPLACEMENT PLANS
W1-W5	WATER MAIN EXTENSION PLAN AND PROFILE SHEETS

— THIS PLAN CONTAINS 282 SHEETS —


DESIGNERS: (LHB) A. BESSE

I HEREBY CERTIFY THAT THIS PLAN 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.

PRINT NAME: ADAM BESSE

SIGNATURE: 

DocuSigned by: 05/03/2024 LIC. #: 52597

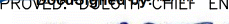
CITY APPROVAL:  5/2/2024

DocuSigned by: 2CE89AC02DB8436 DATE: 5/2/2024


APPROVED: DULUTH CITY ENGINEER

 DATE: 5/2/2024

APPROVED: DULUTH CHIEF ENGINEER OF TRANSPORTATION

 DATE: 5/2/2024

APPROVED: DULUTH CHIEF ENGINEER OF UTILITIES

 DATE: 5/2/2024

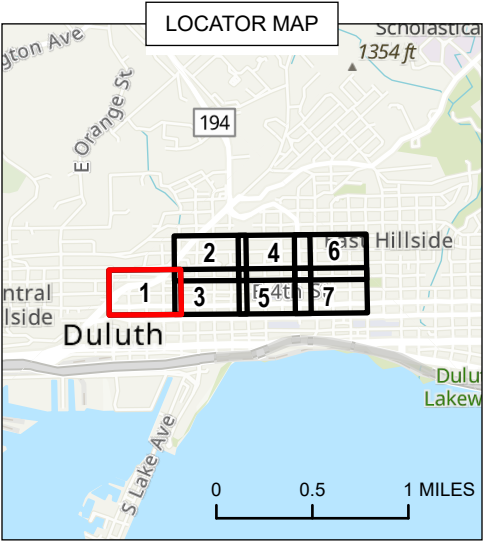
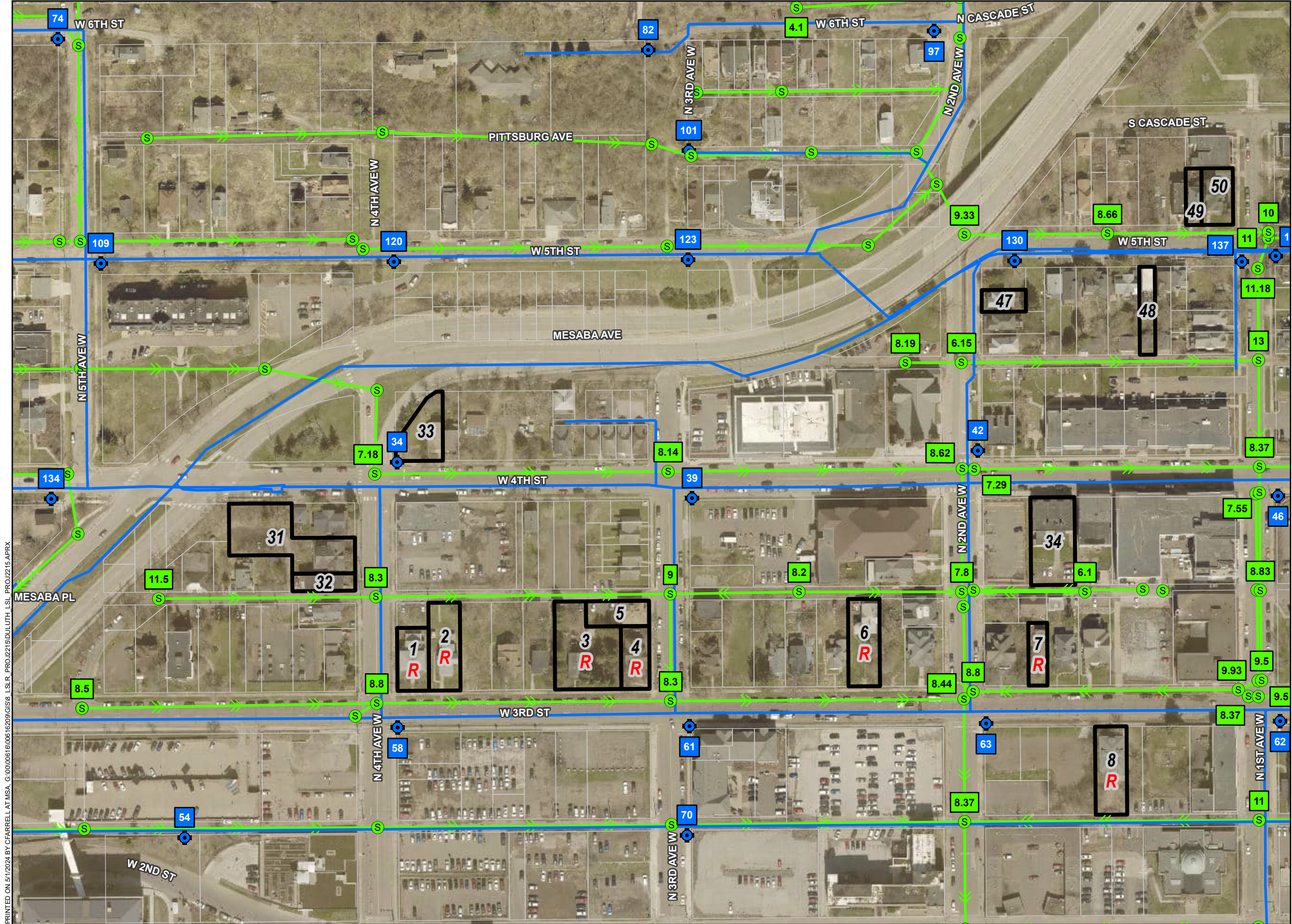
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PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

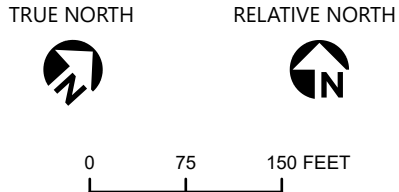
CITY OF DULUTH PROJECT: 2214

MPFA PROJECT NO. 1690011-19

SHEET 1 OF 282 SHEETS



- PROJECT SITES
- SANITARY GRAVITY MAIN
- SANITARY MANHOLE
- WATER GRAVITY MAIN
- WATER HYDRANT
- 8.06 STATIC PRESSURE AT HYDRANT (PSI)
- 7.55 SANITARY MANHOLE DEPTH (FT)
- R INDICATES SHALLOW BEDROCK EXPECTED



PRINTED ON 5/1/2024 BY CFARRELL AT MSA. G:\00000616\00616209\GIS8 LSLR PROJ\2215\DULUTH LSL PROJ\2215\APRX

NOTES:

1. QUANTITIES ARE AN ESTIMATE. NECESSARY QUANTITIES WILL BE DETERMINED BY FIELD CONDITIONS.
2. INCLUDES SALVAGED OR IMPORTED TOPSOIL.
3. QUANTITY IS AN ESTIMATE. ADDRESSES REQUIRING ELECTRICAL SERVICE GROUND WILL BE SUPPLIED AT THE START OF CONSTRUCTION.
4. UNDISTRIBUTED QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER.
5. PROVIDE TEMPORARY WATER FOR ANY SERVICE INSTALLATION THAT CAN NOT BE COMPLETED IN A SINGLE DAY.
6. REFER TO CITY DETAIL W-11 FOR REQUIREMENTS
7. REFER TO CITY DETAIL W-13 FOR REQUIREMENTS.
8. REFER TO SPECIAL PROVISIONS FOR REQUIREMENTS.

STATEMENT OF ESTIMATED QUANTITIES					
NOTES	LINE NUMBER	SPEC NUMBER	DESCRIPTION	UNIT	TOTAL EST. QUANTITY
		2021.501	MOBILIZATION	LUMP SUM	1
		2101.602	TREE REMOVAL	EACH	4
		2104.502	SALVAGE SIGN	EACH	3
		2104.603	REMOVE & REPLACE CONCRETE CURB & GUTTER (P)	LIN FT	1 120
		2104.603	REMOVE & REPLACE INTEGRANT CURB	LIN FT	27
		2104.603	SALVAGE & REINSTALL FENCE (P)	LIN FT	71
		2104.604	REMOVE & REPLACE STREET SECTION, TYPE (B) (P)	SQ YD	1 041
		2104.604	REMOVE & REPLACE STREET SECTION, TYPE (C) (P)	SQ YD	59
		2104.604	REMOVE & REPLACE STREET SECTION, TYPE (D) (P)	SQ YD	14
		2104.604	REMOVE & REPLACE CONCRETE DRIVEWAY	SQ YD	123
		2104.604	REMOVE & REPLACE BITUMINOUS DRIVEWAY	SQ YD	20
		2104.618	REMOVE & REPLACE X" CONCRETE WALK (P)	SQ FT	16 564
1		2104.603	REMOVE & REPLACE CONCRETE RETAINING WALL	LIN FT	20
1		2402.603	SALVAGE & REINSTALL RAILING	LIN FT	75
1		2411.607	REMOVE & REPLACE CONCRETE STEPS	CU YD	103
6		2451.602	POTHOLE WATER SERVICE FOR MATERIAL IDENTIFICATION	EACH	84
		2451.602	PROVIDE EXCAVATION FOR HOT TAP BY CITY EMPLOYEES	EACH	13
		2504.601	2" HDPE TEMPORARY WATER	LUMP SUM	1
		2504.602	ABND WATER SERVICE AT CORP STOP IN SEPARATE EXCAVATION	EACH	7
		2504.602	ABANDON CURB STOP IN SEPARATE EXCAVATION	EACH	12
		2504.602	CONNECT TO EXISTING CORPORATION STOP	EACH	10
		2504.602	CONNECT TO EXISTING CURB STOP	EACH	239
		2504.602	1" CURB STOP & BOX	EACH	14
		2504.602	2" CURB STOP & BOX	EACH	3
		2504.602	BLOWOFF ASSEMBLY	EACH	3
		2504.602	2"x1" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	7
		2504.602	PREPARE FINISHED BASEMENT FOR WATER SERVICE REPLACEMENT	EACH	21
		2504.602	RECONNECT WATER SERVICE	EACH	1
		2504.602	CONNECT TO EXISTING INDOOR PLUMBING	EACH	252
		2504.602	CONNECT TO EXISTING PLUMBING, CRAWLSPACE	EACH	3
		2504.602	ROUTE WATER SERVICE WITHIN STRUCTURE	EACH	3
		2504.603	INDOOR PLUMBING TO RELOCATE WATER METER	LIN FT	14
		2504.603	1" HDPE SDR 9 SERVICE PIPE (PUBLIC) (P)	LIN FT	204
		2504.603	1" HDPE SDR 9 SERVICE PIPE (PRIVATE) (P)	LIN FT	10 257
1, 4, 8		2504.603	1" HDPE SDR 9 SERVICE PIPE, BY PIPE BURSTING SAN. LATERAL	LIN FT	492
		2504.603	2" IPS HDPE DR 9 WATER MAIN PIPE	LIN FT	792
1, 4, 7		2504.604	POLYSTYRENE INSULATION	SQ YD	103
3		2545.602	ELECTRICAL SERVICE GROUND	EACH	252
		2563.601	TRAFFIC CONTROL	LUMP SUM	1
		2564.502	INSTALL SIGN	EACH	3
		2573.601	EROSION CONTROL	LUMP SUM	1
		2575.604	SODDING TYPE LAWN (PUBLIC) (P)	SQ YD	912
1		2575.618	SALVAGE & REINSTALL LANDSCAPE GARDEN	SQ FT	255

(P) DENOTES PLAN QUANTITY

PLOT DATE: 5/2/2024 3:39:53 PM FILE: G:\23Pro\220879\500 Drawings\Civil\220879 03.0 - SEQ.dwg

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.

ADAM BESSE
PRINTED NAME


SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR

CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

STATEMENT OF ESTIMATED QUANTITIES

SHEET NO. Q1

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STORMWATER MANAGEMENT AND EROSION CONTROL REQUIREMENTS

- CITY OF DULUTH PROJECT # 2064 IS A WATER SERVICE REPLACEMENT PROJECT USING EXCAVATIONS AND TRENCHLESS METHODS. WHERE UTILITY EXCAVATIONS IS NECESSARY, THE FOLLOWING SHALL APPLY: SURFACE RESTORATION WILL BE IN KIND WITH EXISTING AND WILL NOT ADD TO IMPERVIOUS SURFACES. THE CITY OF DULUTH MS4 GENERAL PERMIT WILL APPLY. THE CONTRACTOR AND THE CITY SHARE JOINT RESPONSIBILITY FOR ENSURING PERMIT CONDITIONS ARE MET.
- XX WATER SERVICE REPLACEMENTS EXCAVATIONS ARE ESTIMATED FOR THIS PROJECT, FOR A TOTAL OF XX,000 SQUARE FEET OF LAND DISTURBANCE. RUNOFF FROM ALL SITES FLOWS TO THE LOCAL STORM SEWER AND EVENTUALLY LAKE SUPERIOR.
- FOR EXCAVATION WORK THE CONTRACTOR SHALL COMPLETE, SUBMIT AND ABIDE BY THE CITY OF DULUTH "EROSION AND SEDIMENT CONTROL APPLICATION AND PERMIT" FORM INCLUDING A SITE SPECIFIC EROSION CONTROL LAYOUT PLAN AND SEQUENCING NARRATIVE. THESE DOCUMENTS SHALL BE SUBMITTED 7 DAYS PRIOR TO BEGINNING EXCAVATION ACTIVITIES.
- THE EXACT NECESSITY, LOCATION AND SEQUENCING OF EROSION CONTROL DEVICES WILL BE DEPENDANT ON THE CONTRACTOR'S CHOSEN EQUIPMENT, CONSTRUCTION PRACTICES, CONSTRUCTION SEQUENCING, AND MATERIALS & EQUIPMENT PLACEMENT DECISIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EROSION AND SEDIMENT CONTROL DEVICES AND PRACTICES ARE APPROPRIATE FOR THE CONTRACTOR'S MEANS AND METHODS FOR CONSTRUCTION.
- CONTRACT BID ITEMS AND SITE SPECIFIC ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR ANTICIPATED EROSION CONTROL DEVICES. EROSION CONTROL DEVICES CONSIDERED NECESSARY BY OR APPROVED BY THE ENGINEER BUT NOT INCLUDED IN THE BID WILL BE PAID FOR BY UNIT PRICES IN SECTION 2573 OF THE CITY OF DULUTH CONSTRUCTION STANDARD.
- CURRENT MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE CURRENT CITY OF DULUTH SHALL APPLY.
- THE CONTRACTOR SHALL DESIGNATE AN EROSION CONTROL SUPERVISOR.
- THE EROSION CONTROL SUPERVISOR SHALL PERFORM INSPECTIONS OF EACH EXCAVATION SITE WEEKLY AND AFTER A RAIN EVENT OF 1/2" OR MORE. THE CONTRACTOR SHALL KEEP A WRITTEN RECORD OF INSPECTIONS AND REPORT DEFICIENCIES AND CORRECTIVE ACTIONS TO THE ENGINEER.
- THE CONTRACTOR SHALL REVIEW THE EROSION CONTROL PLAN & SCHEDULE WEEKLY WITH THE ENGINEER AND MAKE ALTERATIONS/ADJUSTMENTS AS NECESSARY.
- THE CONTRACTOR SHALL PHASE/SEQUENCE THE PROJECT TO MINIMIZE EXPOSURE TO EROSION. THE CONTRACTOR SHALL PLACE OR OTHERWISE CONSTRUCT EROSION CONTROL AND SEDIMENT CONTAINMENT DEVICES TO MINIMIZE THE RUNOFF, TRACKING AND SEDIMENT LOSS FROM DISTURBED AREAS OF THE PROJECT SITE.
- DISTURBED SLOPES NOT ACTIVELY WORKED SHALL BE PROTECTED FROM SOIL EROSION WITH TEMPORARY OR PERMANENT COVER WITHIN 3 DAYS OF BEING WORKED. EROSION CONTROL BLANKET AND SOIL STAPLES SHALL BE USED.
- ALL SLOPES AND DITCHES SHALL BE STABILIZED PRIOR TO OPENING NEW CULVERT INTO EXISTING DRAINAGE WAYS.
- IN ANY STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, OR IN RAIN IS EXPECTED IN THE NEXT 24 HOURS SEDIMENT AND EROSION CONTROL DEVICES SHALL BE USED.
- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE DIRECTED THROUGH EFFECTIVE FILTERING DEVICE(S) IN ACCORDANCE WITH MNDOT STANDARDS. USE OF APPROVED FLOCCULANT MAY BE NECESSARY. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY DEWATERING PERMITS FROM THE DNR.
- THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT APPRECIABLE SOIL TRACKING ONTO ROADWAYS. APPRECIABLE SOIL, MUD, OR DEBRIS WASHED, TRACKED OR DEPOSITED ONTO PAVED SURFACES SHALL BE REMOVED PRIOR TO THE END OF EACH WORK DAY.
- STABILIZED CONSTRUCTION EXIT(S) SHALL BE REMOVED AND AREA RESTORED AFTER GRADING IS COMPLETE.
- THE CONTRACTOR QC PROGRAM SHALL ENSURE THAT A COMPETENT INDIVIDUAL SHALL INSPECT EROSION AND SEDIMENT CONTROL DEVICES WEEKLY AND AFTER RAIN EVENT INSPECTIONS – INCLUDE THE CORRECTIVE ACTIONS THAT WERE TAKEN.
- THE CONTRACTOR SHALL MAINTAIN THE CAPABILITY TO IMPLEMENT RAPID STABILIZATION METHOD 4 (MNDOT 2575) AT ALL TIMES.
- THE CONTRACTOR SHALL BE PROACTIVE IN THEIR APPROACH TO MINIMIZING SOIL EROSION AND SEDIMENT TRANSPORT FROM THE SITE. CURRENT TECHNOLOGY FOR WEATHER FORECASTING AND WEATHER RADAR ALLOWS FOR THE CONTRACTOR TO HAVE EROSION CONTROL BMPS INSTALLED AND FUNCTIONING FOR A RAIN EVENT. ALL CONSTRUCTION SITES SHALL BE STABILIZED PRIOR TO A FORECASTED RAIN EVENT DURING NON-WORK TIMES, I.E. WEEK NIGHTS AND WEEKENDS.
- AS SITE CONDITIONS CHANGE, THE WORK PROGRESSES AND WEATHER CONDITIONS VARY, THE CONTRACTOR SHALL BE REACTIVE TO THE CHANGING VARIABLES. THEREFORE BMP INSTALLATION, CLEANING AND RELOCATION SHOULD BE ANTICIPATED IN MOST CONSTRUCTION ACTIVITIES.
- CONSTRUCTION ACTIVITY PERFORMED WITHOUT APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES MAY BE CONSIDERED UNACCEPTABLE WORK AND MAY BE SUBJECT TO NONPAYMENT.

CONSTRUCTION PRACTICES TO MINIMIZE STORM WATER CONTAMINATION

- TO PREVENT STORM WATER CONTAMINATION FROM OCCURRING, THE FOLLOWING BMPS WILL BE IMPLEMENTED:
- ALL AREAS THAT ARE ROUGH GRADED SHALL BE KEPT IN A SMOOTH CONDITION AND TRACKED BY EQUIPMENT WITH TREADS RUNNING ACROSS THE SLOPE. ROUGH GRADED SOIL SHALL BE ALWAYS READY FOR SURFACE APPLICATION OF TEMPORARY OR PERMANENT, DEGRADABLE OR NON-DEGRADABLE BLANKETS, MULCH OR OTHER PROTECTIVE COVERS.
 - A STABILIZED ENTRANCE/EXIT WILL BE CONSTRUCTED TO REDUCE VEHICLE TRACKING OF SEDIMENTS OFF THE PROJECT RIGHT OF WAY.
 - ALL SOLID WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER OR OTHER APPROVED CONTAINMENT METHOD AT THE END OF EACH DAY. ANY ALTERNATIVE TO A METAL DUMPSTER MUST BE SUBMITTED IN WRITING FOR APPROVAL BY THE PROJECT ENGINEER. ALL TRASH AND CONSTRUCTION DEBRIS COLLECTED FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AD NECESSARY TO FUNCTION AS INTENDED FOR DEBRIS COLLECTION. NO WASTE MATERIALS WILL BE BURIED ON-SITE. THE CONTRACTOR'S EROSION CONTROL SUPERVISOR WILL INSTRUCT ALL PERSONNEL REGARDING THE CORRECT PROCEDURE FOR DISPOSAL.
 - RECYCLABLE MATERIALS MUST BE SEPARATED ON-SITE AND SEGREGATED IN DESIGNATED CONTAINERS
 - A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR WILL COLLECT ALL SANITARY WASTE FROM THE PORTABLE UNITS AT A RATE NECESSARY TO MAINTAIN DESIGNATED FUNCTION.
 - ALL VEHICLES ON SITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. LEAKING EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE JOB SITE.
 - FERTILIZERS WILL BE STORED IN A COVERED SHED AND PARTIALLY USED BAGS WILL BE TRANSFERRED TO A SEALABLE BIN TO REDUCE THE CHANCE OF SPILLAGE.
 - PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED.
 - SPILL KITS WILL BE INCLUDED WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES. SECONDARY CONTAINMENT MEASURES WILL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR.
 - ANY ASPHALT SUBSTANCES USED ON SITE WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - ALL PAINT CONTAINERS AND CURING COMPOUNDS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM WATER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTION.
 - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN-UP SHALL BE READILY AVAILABLE AND BE KEPT IN AN ENCLOSED TRAILER OR SHED ON SITE. EQUIPMENT WILL INCLUDE, BUT NOT LIMITED TO, BROOMS, MOPS, DUST PANS, RAGS, GLOVES, ABSORBENT (KITTY LITTER, OIL ABSORBENT BOOMS, AND DIAPERS) AND BUCKETS.
 - ALL SPILLS WILL BE CONTAINED AND CLEANED UP IMMEDIATELY UPON DISCOVERY, SPILLS LARGE ENOUGH TO REACH THE STORM WATER CONVEYANCE SYSTEM WILL BE REPORTED TO THE MINNESOTA DUTY OFFICER AT 1-800-422-0798.
 - CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE UNLESS DONE IN AN ENGINEERED CONTAINMENT SYSTEM. THE ENGINEERED SYSTEM MUST INCLUDE SITE DRAWINGS FOR THE PROJECT FILE AND WRITTEN ASSURANCE THAT THE SYSTEM WILL WORK AS DESIGNED AND LEAVE NO DISCHARGE OF CONCRETE OR CONCRETE RESIDUE POTENTIAL TO ENTER WATERS OF THE STATE.
 - FORM RELEASE OIL USED FOR CONCRETE WORK MUST BE APPLIED OVER A PALLET CONTAINING ABSORBENT TO COLLECT EXCESS LIQUID. THE ABSORBENT MATERIAL WILL BE REPLACED AND PROPERLY DISPOSED OF WHEN SATURATED.
 - DURING CIPP SEWER LINING ALL CONDENSATE SHALL BE COLLECTED OR DIRECTED INTO THE SANITARY SEWER. ALL CONDENSATE AND EXCESS RESIN DEPOSITED ON THE STREET, GROUND OR INTO WATER WAYS SHALL BE CLEANED UP IMMEDIATELY. ALL DUST AND SHAVINGS FROM CUTTING STORM SEWER LINERS SHALL BE CLEANED UP IMMEDIATELY AND SURFACES WIPED CLEAN.
 - DISCHARGES FROM BASIN DEWATERING OPERATIONS THAT ARE TURBID OR SEDIMENT LADEN SHALL BE DISCHARGED TO TEMPORARY SEDIMENT BASINS CONSTRUCTED ON THE SITE TO PROVIDE TREATMENT PRIOR TO DISCHARGE TO A WATERS OF THE STATE.

TRAFFIC CONTROL REQUIREMENTS:

- ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE CURRENT MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE MINNESOTA TEMPORARY CONTROL FIELD MANUAL.
- THE CONTRACTOR SHALL USE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SELECT THE APPROPRIATE TEMPORARY TRAFFIC CONTROL ZONE LAYOUT.
- THE CONTRACTOR SHALL FURNISH, INSTALL, ADJUST, MAINTAIN AND REMOVE ALL NECESSARY TRAFFIC CONTROL SIGNS AND DEVICES IN THE APPROPRIATE TEMPORARY TRAFFIC CONTROL ZONE LAYOUT.
- FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF INDIVIDUAL LAYOUTS AD DEEMED NECESSARY BY THE ENGINEER.
- ADDITIONAL SIGNS AND TRAFFIC CONTROL DEVICES OR ALTERNATE LAYOUTS MAY BE APPROVED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE MADE FOR CHANGES RESULTING FROM THE CONTRACTOR'S OPERATIONS.
- THE CONTRACTOR SHALL RECEIVE COMPENSATION FOR ALL NECESSARY TRAFFIC CONTROL WORK, WHETHER SHOWN IN THIS PLAN OR OTHERWISE, ON THE BASIS OF A LUMP SUM PAYMENT FOR ITEM TRAFFIC CONTROL (2563.601).
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH MUTCD.
- ALL TRAFFIC CONTROL DEVICES ON ROADS OPEN TO TRAFFIC THAT ARE NOT CONSISTENT WITH TRAFFIC OPERATION, SHALL BE COVERED, REMOVED OR REVISED AS DIRECTED BY THE ENGINEER.
- ALL DEVICES SHALL BE MOVED OR COVERED AS SOON AS THEY ARE NO LONGER REQUIRED OR APPROPRIATE.
- CONTRACTOR TO VERIFY ALL EXISTING SIGN SIZES AND PREPARE CUSTOM SIGNS APPROPRIATE.
- WORK PERFORMED WITHOUT APPROPRIATE TRAFFIC CONTROL IN PLACE MAY BE CONSIDERED UNAUTHORIZED WORK AND MAY BE SUBJECT TO NONPAYMENT.
- BEFORE LANE OR ROAD CLOSURES, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST ALONG WITH A PROPOSED TRAFFIC CONTROL PLAN 7 DAYS PRIOR TO BEGINNING WORK FOR APPROVAL BY THE ENGINEER.
- PRIOR TO CLOSING ROADS THE CONTRACTOR SHALL CONTACT THE FOLLOWING AUTHORITIES 48 HOURS IN ADVANCE OF CLOSURE:
 - CITY OF DULUTH ENGINEERING DEPARTMENT
 - JOE JUREWICZ, P.E. 730-5095
OR BY EMAIL AT: jjurewicz@duluthmn.gov
 - PEGGY BILLINGS (FRONT DESK)..... 730-5200
OR BY EMAIL AT: pbillings@duluthmn.gov
 - ST. LOUIS COUNTY 911 DISPATCH..... 625-3581
 - DULUTH FIRE DEPARTMENT..... 730-5400
 - DULUTH POLICE DEPARTMENT..... 730-5400
 - DULUTH TRANSIT AUTHORITY (DTA) (ONLY WHEN IT AFFECTS A BUS ROUTE)
 - JEFF DAHLGREN..... 623-4310
OR BY EMAIL AT: jdahlgren@duluthtransit.com
 - DISPATCHERS (ONLY IF VERY SHORT NOTICE)..... 623-4328
 - DISTRICT SCHOOL BUSES – (NOTIFY ALL THREE CONTACTS)
 - STEVE JOHNSON (ISD709 TRANS MGMT)..... 336-8700 EXT. 4005
 - DALE HONKALA (ISD709 TRANS MGMT)..... 348-5879
 - VOYAGER BUS COMPANY (RUDY, JOSH OR DEB)..... 724-1707
 - ST. LOUIS COUNTY COMMUNICATIONS SUPERVISOR
 - EMILY WARNYGORA..... 336-4349
 - SUMMIT SHUTTLE (ONLY UMD/ST. SCHOLASTICA/RICE LAKE RD./W. ARROWHEAD RD.)
 - JEFF RICHTMAN..... 651-705-3313 OR 651-373-6137 (C)

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.

ADAM BESSE
PRINTED NAME


SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR

CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

NOTES

SHEET NO. N1

				SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6	SITE 7	SITE 8	SITE 9	SITE 10	SITE 11	SITE 12	SITE 13	SITE 14	SITE 15	SITE 16	SITE 17	SITE 18	SITE 19	SITE 20	SITE 21	SITE 22	SITE 23	SITE 24	SITE 25
LINE	SPEC NUMBER	DESCRIPTION	UNIT	331 W 3RD ST	329 W 3RD ST	309 W 3RD ST	301 W 3RD ST	313 N 3RD AVE W	209 W 3RD ST	125 W 3RD ST	120 W 3RD ST	18 W 3RD ST	113 E 3RD ST	115 E 3RD ST	117 E 3RD ST	119 E 3RD ST	125 E 3RD ST	313 N 2ND AVE E	201 E 3RD ST	205 E 3RD ST	209 E 3RD ST	211 E 3RD ST	219 E 3RD ST	221 E 3RD ST	331 E 3RD ST	632 E 3RD ST	702 E 3RD ST	716 E 3RD ST
1	2021.501	MOBILIZATION	LUMP SUM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	2101.602	REMOVE TREE	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	2104.602	SALVAGE & REINSTALL STREET SIGN	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	2104.603	REMOVE AND REPLACE CONCRETE CURB & GUTTER	LIN FT	8	8	8	8	8	8	8	8	8	5	4	5	4	8	—	9	8	5	4	8	8	8	8	—	8
5	2104.603	REMOVE AND REPLACE INTEGRANT CURB	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	2104.604	REMOVE & REPLACE CONCRETE DRIVEWAY APRON	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	—
7	2104.604	REMOVE & REPLACE STREET SECTION – TYPE B	SQ YD	—	—	—	—	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	2104.604	REMOVE & REPLACE STREET SECTION – TYPE E	SQ YD	9	—	—	—	—	—	—	2	2	—	—	—	—	—	9	—	—	—	—	—	—	—	2	—	—
9	2104.604	REMOVE & REPLACE STREET SECTION – TYPE F	SQ YD	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	2104.618	REMOVE AND REPLACE BRICK PAVERS	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32
11	2104.503	SALVAGE & REINSTALL FENCE	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	2104.618	SALVAGE & REINSTALL HAND RAIL	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	2575.604	SALVAGE & REINSTALL PLANTING (BUSH, SHRUB, SMALL TREE)	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	2575.604	SALVAGE & REINSTALL LANDSCAPE GARDEN	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	2575.604	SALVAGE & REINSTALL ROCK RETAINING WALL	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	2575.604	SALVAGE & REINSTALL WOOD STEP/WALKWAY	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	2411.603	REMOVE & REPLACE CONCRETE STEPS	CU YDS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	2451.602	POTHOLE WATER SERVICE FOR MATERIAL IDENTIFICATION	EACH	1	—	—	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
19	2451.602	PROVIDE EXCAVATION FOR HOT TAP BY CITY EMPLOYEES	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	2503.602	TELEWISE & LOCATE SANITARY SERVICE	EACH	—	1	1	—	1	1	1	—	—	1	1	1	—	—	1	2	1	1	1	1	1	1	—	—	—
21	2504.601	TEMPORARY WATER	LUMP SUM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	2504.602	2"x1" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	2504.602	8"x1" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24	2504.602	8" GATE VALVE & BOX	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	2504.602	10" GATE VALVE & BOX	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26	2505.602	16" BUTTERFLY VALVE & BOX	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28	2504.602	CONNECT TO EXISTING CORPORATION STOP	EACH	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	2504.602	CONNECT TO EXISTING CURBSTOP	EACH	—	1	1	1	—	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1
30	2504.602	REPLACE CURBSTOP	EACH	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	2504.602	CURB STOP	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	2504.602	CONNECT TO EXISTING PRIVATE WATER SERVICE	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
33	2504.602	BLOWOFF ASSEMBLY	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
34	2504.602	PREPARE FINISHED BASEMENT FOR WATER SERVICE REPLACEMENT	EACH	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—
35	2504.602	CONNECT TO EXISTING INDOOR PLUMBING	EACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1
36	2504.602	ABANDON CURB STOP	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
37	2504.602	ABANDON WATER SERVICE AT CORPORATION STOP IN SEPARATE EXCAVATION	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
38	2504.602	2" CURB STOP & BOX	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
39	2504.603	INDOOR PLUMBING TO RELOCATE WATER METER, COPPER PIPE	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	2504.603	INDOOR PLUMBING TO RELOCATE WATER METER, PEX PIPE	hour	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
41	2504.603	1" HDPE SDR 9 SERVICE PIPE – PUBLIC	LIN FT	37	—	—	—	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
42	2504.603	1" HDPE SDR 9 SERVICE PIPE – PRIVATE	LIN FT	43	72	36	36	23	93	67	24	23	88	84	87	92	69	16	60	49	44	46	57	76	26	38	17	22
43	2504.603	1" HDPE SDR 9 SERVICE PIPE – PIPE BURSTING SANITARY LATERAL	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
44	2504.603	2" IPS HDPE SDR 9 WATER MAIN	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
45	2504.603	8" DIPS HDPE SDR 11 WATER MAIN	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
46	2504.603	10" DIPS HDPE SDR 11 WATER MAIN	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
47	2504.603	16" DIPS HDPE SDR 11 WATER MAIN	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
48	2504.604	3" POLYSTYRENE INSULATION	SQ YDS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
49	2521.618	REMOVE AND REPLACE 4" CONCRETE WALK	SQ FT	75	75	75	75	75	75	75	75	90	40	40	4	40	75	—	80	75	40	40	75	75	75	105	—	75
50	2521.618	REMOVE AND REPLACE 6" CONCRETE WALK	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75	—
51	2531.618	TRUNCATED DOMES	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
52	2545.602	ELECTRICAL SERVICE GROUND	EACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53	2563.601	TRAFFIC CONTROL	LUMP SUM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
54	2573.601	EROSION CONTROL	LUMP SUM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
55	2575.504	SODDING TYPE LAWN	SQ YDS	7	7	7	7	4	7	8	5	1	4	4	4	4	7	—	8	7	4	4	7	7	7	—	—	—

I HEREBY CERTIFY THAT THIS PLAN 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: 

JON LOYE, P.E.
TYPE NAME

DATE: MAY 2, 2024

LIC. NO: 52222



CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. STE. 240
DULUTH, MN 55802

2024 DULUTH LEAD SERVICE REPLACEMENT – CENTRAL HILLSIDE 1

CITY PROJECT NO.:2215

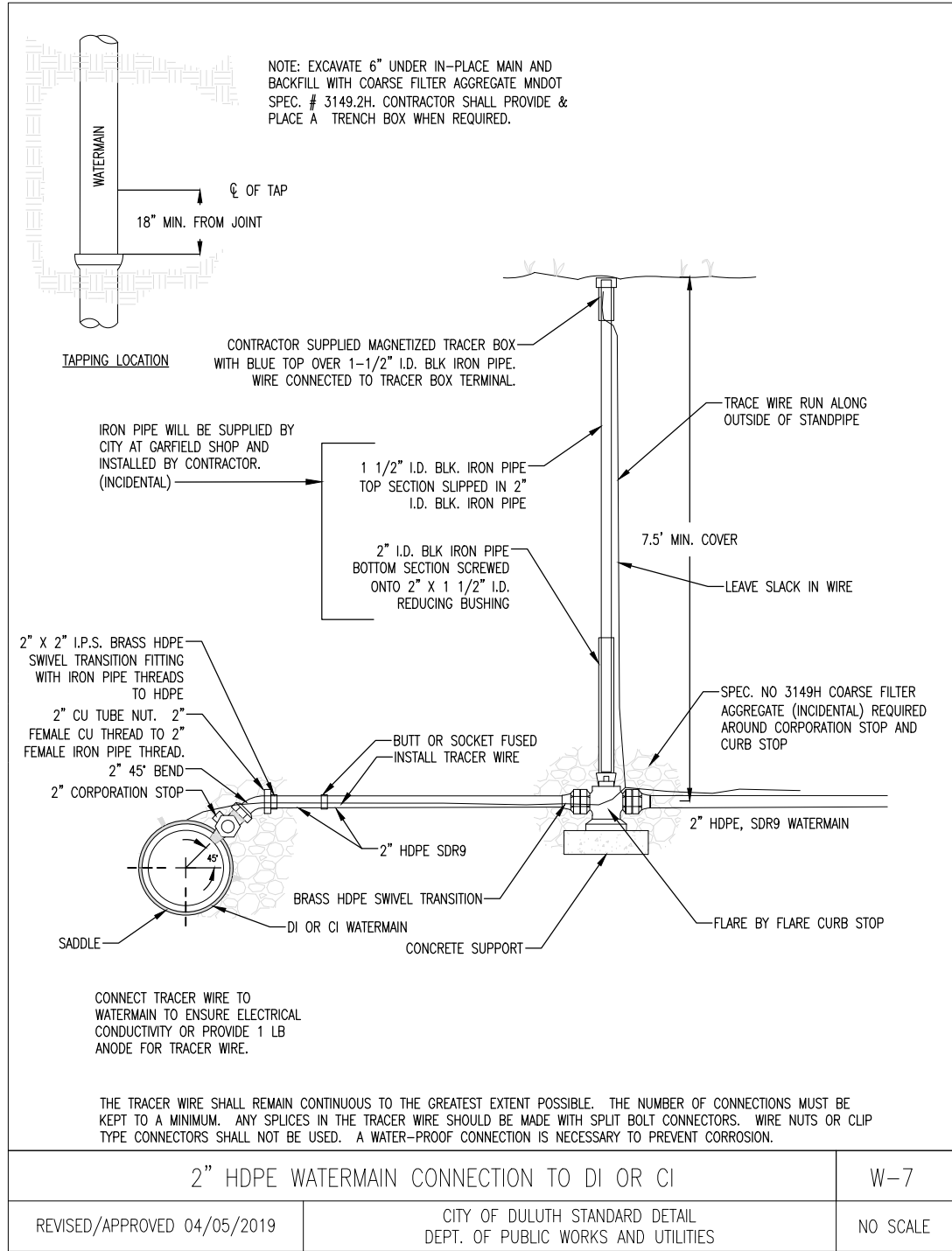
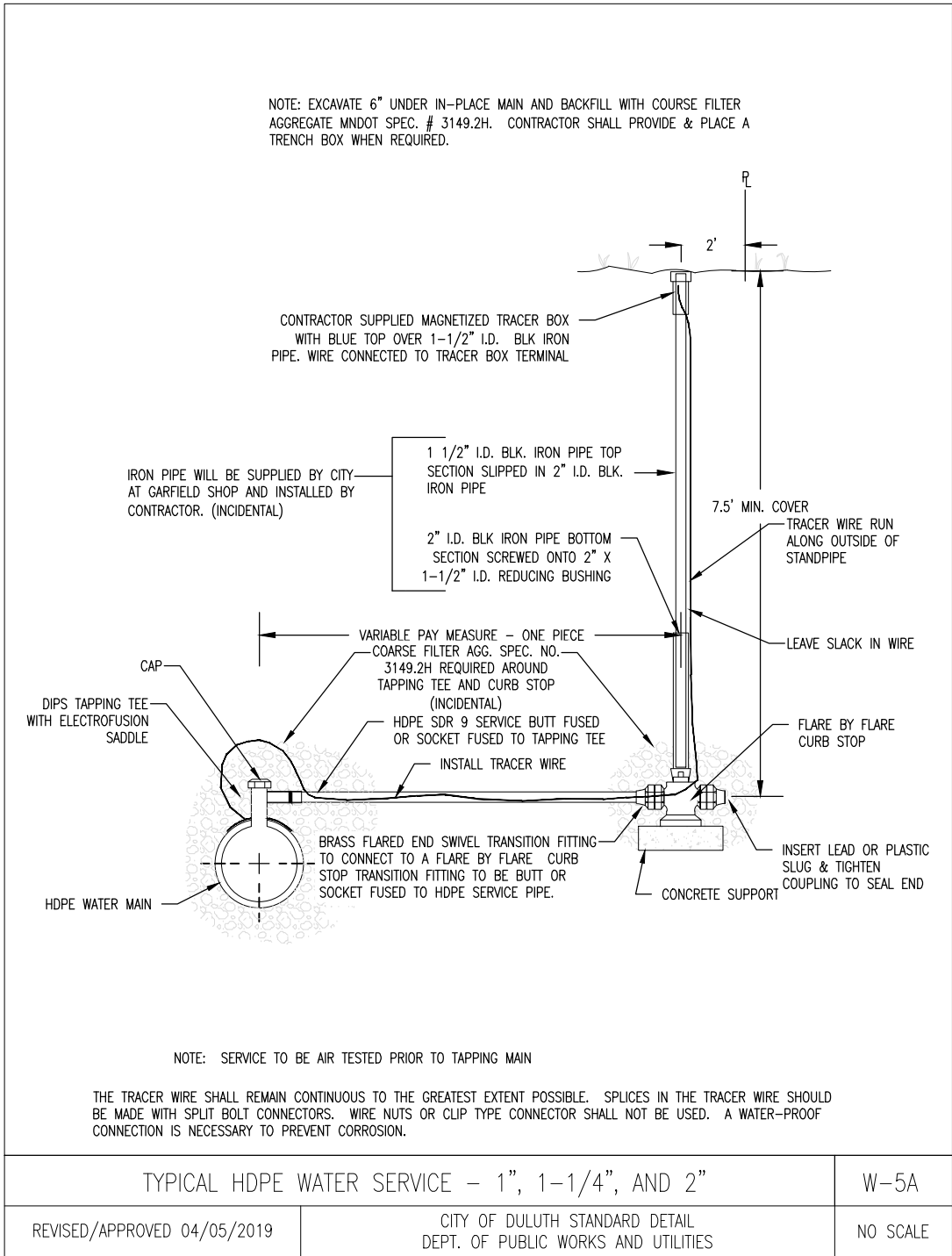
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QUANTITY CHARTS

SHEET NO. C1

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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.

ADAM BESSE
PRINTED NAME

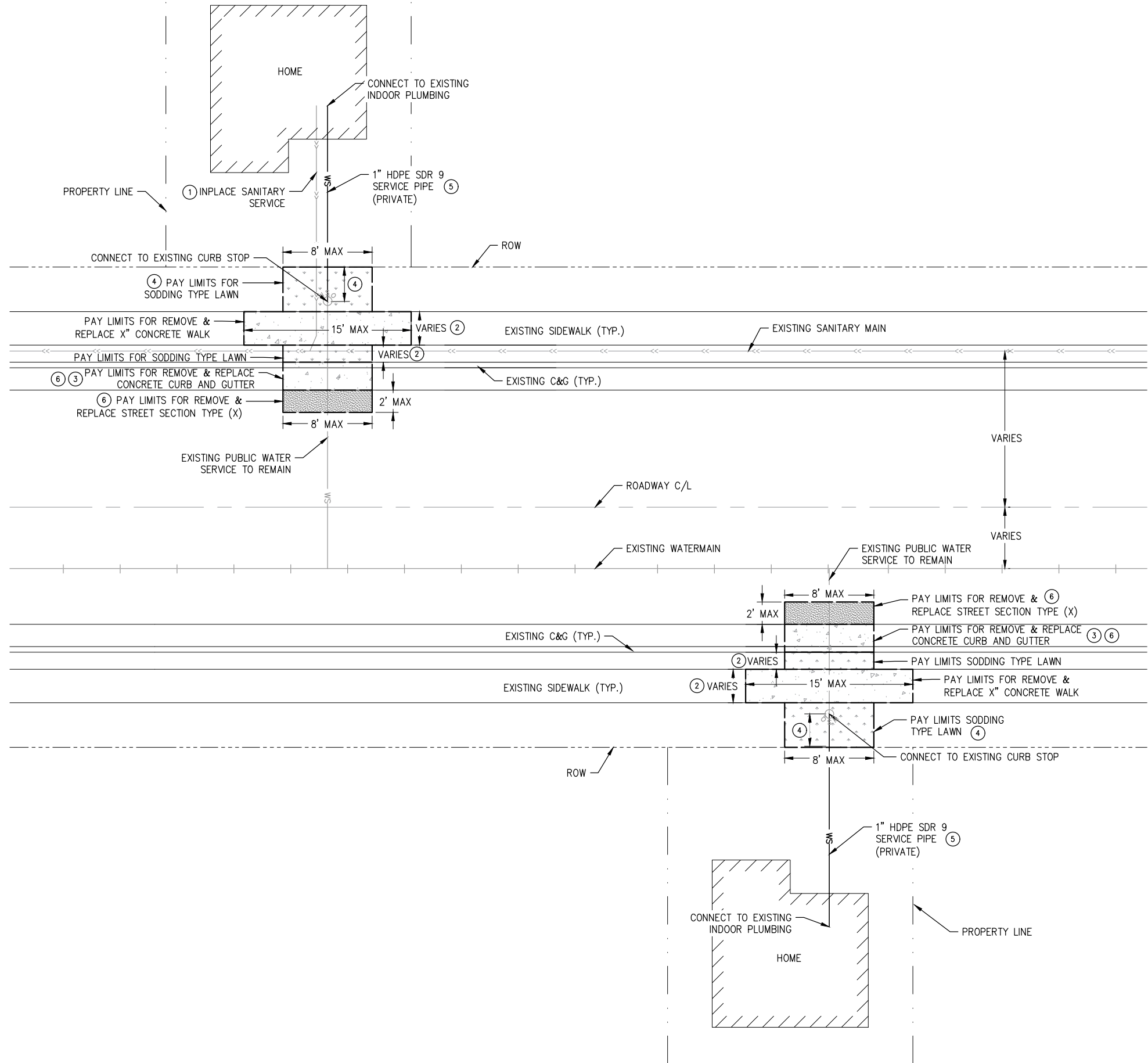
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05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR
CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

CONSTRUCTION DETAILS
SHEET NO. D1



KEY NOTES:

- ① WHERE THE SUSPECTED PRESENCE OF BEDROCK IS INDICATED IN THE PLANS OR WHERE DIRECTED BY THE ENGINEER DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL BE PREPARED TO UTILIZE A TRENCHLESS METHOD UTILIZING THE INPLACE SANITARY SEWER SERVICE LINE TO COMPLETE THE WATER SERVICE REPLACEMENT. IN SUCH CASES, THE WORK SHALL INCLUDE FULLY REPLACING THE SANITARY SERVICE LINE. REFER TO SPECIAL PROVISIONS FOR REQUIREMENTS. UTILIZING THE SANITARY SERVICE TO PLACE THE WATER SERVICE LINE IS OTHERWISE NOT PERMITTED AND THE SANITARY SERVICE SHALL BE PROTECTED DURING THE WORK.
- ② SHALL MATCH EXISTING WALK OR CURB TYPE GEOMETRY.
- ③ LIMIT OF MEASUREMENT FOR REMOVE & REPLACE INTEGRANT CURB, WHERE PRESENT, SHALL BE LIMITED TO A 2-FT OFFSET MEASURED FROM EXISTING FACE OF CURB.
- ④ LIMITS OF PAYMENT FOR SODDING TYPE LAWN AREAS SHALL BE A MAXIMUM OF 6-FT BEHIND CURB STOP OR AS MEASURED TO THE RIGHT-OF-WAY, WHICHEVER IS LESS.
- ⑤ NO PAYMENT SHALL BE MADE FOR ANY REMOVALS OR RESTORATION ON A PRIVATE PROPERTY BUT ALL COSTS SHALL BE CONSIDERED INCLUDED FOR PAYMENT UNDER THE 1" HDPE SDR 9 SERVICE PIPE (PRIVATE) PAY ITEM. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- ⑥ CURB AND GUTTER AND PAVEMENT REMOVALS SHALL ONLY BE PAID FOR WHERE THE LOCATION OF THE INPLACE CURB STOP IS LOCATED WITHIN 2-FT OF THE INPLACE BACK OF CURB.

NOTE:

NO SEPARATE MEASUREMENT OR ADDITIONAL PAYMENT SHALL BE MADE FOR ANY CONSTRUCTION IMPACTS BEYOND THE PAY LIMITS SHOWN AND ALL SUCH IMPACTS SHALL BE FULLY RESTORED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE CITY.

TYPICAL WATER SERVICE REPLACEMENT
(PRIVATE SIDE LEAD SERVICE REPLACEMENT ONLY)

APPLIES: LEAD SERVICE REPLACEMENT FROM CURB
STOP TO CONNECTION TO INDOOR PLUMBING

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.

ADAM BESSE
PRINTED NAME

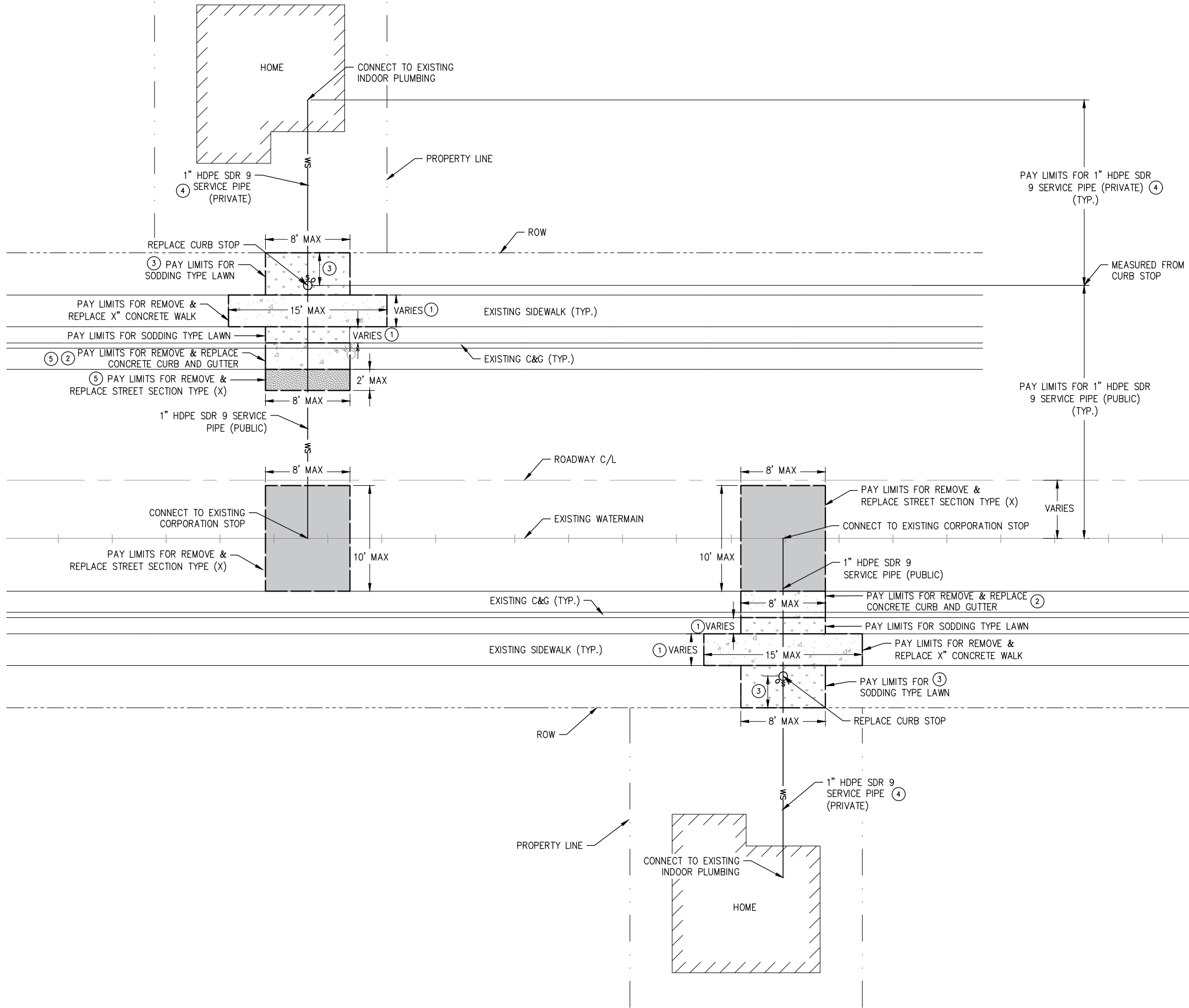
Adam Besse
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05/03/2024
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LIC. NO.

LINCOLN PARK LSLR
CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

CONSTRUCTION DETAILS
SHEET NO. D12



KEY NOTES:

- ① SHALL MATCH EXISTING WALK OR CURB TYPE GEOMETRY.
- ② LIMIT OF MEASUREMENT FOR REMOVE & REPLACE INTEGRANT CURB, WHERE PRESENT, SHALL BE LIMITED TO A 2-FT OFFSET MEASURED FROM EXISTING FACE OF CURB.
- ③ LIMITS OF PAYMENT FOR SODDING TYPE LAWN AREAS SHALL BE A MAXIMUM OF 6-FT BEHIND CURB STOP OR AS MEASURED TO THE RIGHT-OF-WAY, WHICHEVER IS LESS.
- ④ NO PAYMENT SHALL BE MADE FOR ANY REMOVALS OR RESTORATION ON A PRIVATE PROPERTY BUT ALL COSTS SHALL BE CONSIDERED INCLUDED FOR PAYMENT UNDER THE 1" HDPE SDR 9 SERVICE PIPE (PRIVATE) PAY ITEM. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- ⑤ CURB AND GUTTER AND PAVEMENT REMOVALS SHALL ONLY BE PAID FOR WHERE THE LOCATION OF THE INPLACE CURB STOP IS LOCATED WITHIN 2-FT OF THE INPLACE BACK OF CURB.

NOTE:

NO SEPARATE MEASUREMENT OR ADDITIONAL PAYMENT SHALL BE MADE FOR ANY CONSTRUCTION IMPACTS BEYOND THE PAY LIMITS SHOWN AND ALL SUCH IMPACTS SHALL BE FULLY RESTORED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE CITY.

TYPICAL WATER SERVICE REPLACEMENT
(FULL LEAD WATER SERVICE REPLACEMENT)

APPLIES: LEAD SERVICE REPLACEMENT FROM WATER
MAIN TO CONNECTION TO INDOOR PLUMBING

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.

ADAM BESSE
PRINTED NAME

Adam Besse
SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR
CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

CONSTRUCTION DETAILS
SHEET NO. D13

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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

1. GENERAL

THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) REGULATES STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY DISTURBING LAND EQUAL TO OR GREATER THAN ONE ACRE THROUGH A GENERAL STORMWATER PERMIT (PERMIT NO. MN R100001) AUTHORIZING THE DISCHARGE OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO WATERS OF THE STATE IN COMPLIANCE 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 POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP IS A COMBINATION OF NARRATIVE, CALCULATIONS, PLANS SHEETS, AND STANDARD DETAIL SHEETS THAT ADDRESS THE FORESEEABLE CONDITIONS AT ANY STAGE IN THE CONSTRUCTION OR POST-CONSTRUCTION ACTIVITIES.

THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING TEMPORARY BMPs AT EACH PROJECT SITE TO MANAGE CONSTRUCTION STORMWATER AND TO PREVENT THE DISCHARGE OF SEDIMENT LADEN STORMWATER TO "WATERS OF THE STATE".

UNLESS A SPECIFIC PAYMENT ITEM(S) ARE PROVIDED THEREFORE, ALL WORK TO COMPLY WITH THE NPDES STORMWATER PERMIT SHALL BE CONSIDERED INCIDENTAL WITH NO SEPARATE PAYMENT THEREFOR.

2. GENERAL AND ADMINISTRATIVE REQUIREMENTS

- A. RESPONSIBLE PARTIES: THE OWNER AND GENERAL CONTRACTOR (OPERATOR)(CONTRACTOR) ARE CO-PERMITTEES OF THE PERMIT AND ARE JOINTLY RESPONSIBLE FOR COMPLIANCE WITH TERMS AND CONDITIONS OF THE PERMIT. OBTAIN AND REVIEW THE PERMIT AND COMPLY WITH PERMIT SECTIONS 3, 4, 6-24 (PERMIT PART 3.5). VERIFY THAT PERMIT REQUIREMENTS ARE SATISFIED AND COMPLETE THE BLANKS ON THIS SWPPP SHEET(S).
- B. PERMIT APPLICATION (PERMIT ITEM 3.2): THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER, COMPLETING THE PERMIT APPLICATION ON-LINE, AND PAYING THE APPLICATION FEE. APPLY ON-LINE AT THE MPCA CONSTRUCTION STORM WATER WEBSITE: <https://www.pca.state.mn.us/water/construction-stormwater>.
- C. PERMIT COVERAGE (PERMIT ITEMS 3.3, 3.4): FOR PROJECTS THAT DISTURB LESS THAN 50 ACRES OR DO NOT DISCHARGE STORMWATER WITHIN 1 MILE (AERIAL RADIUS MEASUREMENT FROM PROJECT BOUNDARIES) OF A SPECIAL OR IMPAIRED WATER, PERMIT COVERAGE TYPICALLY BECOMES EFFECTIVE UPON ON-LINE APPLICATION AND COMPLETION OF THE PAYMENT PROCESS.

FOR PROJECTS THAT DISTURB 50 ACRES OR MORE AND DISCHARGE STORMWATER WITHIN 1 MILE OF A SPECIAL OR IMPAIRED WATER, THE COMPLETE SWPPP MUST BE SUBMITTED TO THE MPCA AT LEAST 30 DAYS BEFORE THE START OF CONSTRUCTION. CONSTRUCTION MAY BEGIN AFTER ON-LINE APPLICATION, COMPLETION OF THE PAYMENT PROCESS, AND, AFTER RECEIVING A DETERMINATION LETTER FROM THE MPCA THAT REVIEW OF THE SWPPP IS COMPLETE. IF THE MPCA FAILS TO CONTACT PERMITTEES WITHIN 30 DAYS OF APPLICATION RECEIPT, COVERAGE IS EFFECTIVE 30 DAYS AFTER COMPLETING THE PAYMENT PROCESS.

- * DOES THE PROJECT DISTURB 50 ACRES OR MORE? NO
- * DOES THE PROJECT DISCHARGE WITHIN 1-MILE OF A SPECIAL (PERMIT ITEM 23.3-23.6) OR IMPAIRED WATER (PERMIT ITEM 23.7)? YES

IF "YES" FOR BOTH OF THE ABOVE, SUBMIT THE ONLINE APPLICATION, PAYMENT, AND THE COMPLETE SWPPP (SWPPP AND PLAN SHEETS IT REFERENCES, STORMWATER REPORT, AND SITE ASSESSMENTS FOR GROUNDWATER AND SOIL CONTAMINATION), AT LEAST 30 DAYS BEFORE THE START OF CONSTRUCTION.

DO NOT BEGIN LAND DISTURBING CONSTRUCTION ACTIVITIES UNTIL PERMIT COVERAGE IS EFFECTIVE. THE START OF ANY LAND DISTURBING ACTIVITIES SIGNIFIES THAT THE CONTRACTOR IS ASSUMING RESPONSIBILITY FOR PERMIT COVERAGE AND HAS COMPLIED WITH PERMIT REQUIREMENTS.

- D. NOTIFICATION OF COVERAGE (PERMIT ITEM 3.6): THE CONTRACTOR WILL RECEIVE A NOTIFICATION OF COVERAGE FROM THE MPCA (E.G., VIA EMAIL). KEEP OR POST A COPY OF THE NOTIFICATION OF COVERAGE WITH THE SWPPP AT THE PROJECT SITE. PROVIDE COPIES TO THE OWNER AND LHB.
- E. CHANGE OF COVERAGE FOR NEW OWNER OR NEW OPERATOR (PERMIT ITEMS 3.7, 3.8): FOR A NEW OWNER OR OPERATOR, THE CURRENT OWNER, AND NEW OWNER OR OPERATOR, MUST SUBMIT A "NOTICE OF TERMINATION/PERMIT MODIFICATION FORM" PRIOR TO THE NEW OWNER OR OPERATOR COMMENCING CONSTRUCTION ACTIVITY, NO LATER THAN 30 DAYS AFTER PROPERTY OWNERSHIP TRANSITION. THIS FORM IS AVAILABLE AT THE ABOVE MPCA WEBSITE.
- F. TERMINATION OF COVERAGE (PERMIT SECTION 4): THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER AND TERMINATING PERMIT COVERAGE BY COMPLETING AND SUBMITTING A "NOTICE OF TERMINATION/PERMIT MODIFICATION FORM" (NOT) TO THE MPCA AFTER ALL OF THE CONDITIONS OF PERMIT ITEM 4.4 AND 4.5 ARE SATISFIED. PROVIDE, TO OWNER, PHOTOS OF THE SITE SUBMITTED TO THE MPCS WITH THE NOT.
- G. RECORD RETENTION AND AVAILABILITY (PERMIT SECTION 20): THE CONTRACTOR SHALL KEEP A COPY OF THE SWPPP, INCLUDING ALL CHANGES, AND INSPECTIONS AND MAINTENANCE RECORDS ON SITE OR ELECTRONICALLY AVAILABLE ON-SITE DURING NORMAL WORKING HOURS DURING CONSTRUCTION PER PERMIT SECTION 20. THIS DOCUMENTATION MUST BE KEPT ON FILE FOR 3 YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION. COORDINATE TRANSFER OF THIS DOCUMENTATION TO THE OWNER AT PROJECT COMPLETION.
- H. CHANGES (AMENDMENTS) TO SWPPP (PERMIT SECTION 6): UPDATE AND DOCUMENT CHANGES WITHIN 7 DAYS TO THE SWPPP DURING CONSTRUCTION PER PERMIT SECTION 6. KEEP DOCUMENTATION WITH THE SWPPP (E.G., "THE REASON INLET PROTECTION WAS REMOVED FROM INLET 23 WAS DUE TO STREET FLOODING/FREEZING CONCERNS, AS ALLOWED BY PERMIT ITEM 9.8.").

3. CONSTRUCTION ACTIVITY REQUIREMENTS

- A. GENERAL: COMPLY WITH THE PERMIT AND SWPPP AND THE REQUIREMENTS OF THE PERMIT. THE BEST MANAGEMENT PRACTICES (BMPs) IDENTIFIED IN THE SWPPP AND PERMIT MUST BE SELECTED, INSTALLED, AND MAINTAINED IN AN APPROPRIATE AND FUNCTIONAL MANNER IN ACCORDANCE WITH THE

CONSTRUCTION DOCUMENTS, MANUFACTURER RECOMMENDATIONS, AND ACCEPTED ENGINEERING PRACTICES.

- B. EROSION PREVENTION PRACTICES (PERMIT SECTION 8): BEFORE WORK BEGINS, DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED (E.G., BUFFERS).

WHEN STEEP SLOPES MUST BE DISTURBED, USE TECHNIQUES SUCH AS PHASING AND STABILIZATION PRACTICES DESIGNED FOR STEEP SLOPES (E.G., SLOPE DRAINING, TERRACING).

WHEN CONSTRUCTION ACTIVITY WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS (7 DAYS FOR SPECIAL AND IMPAIRED WATERS, SEE SECTION23), STABILIZE EXPOSED SOIL AREAS (INCLUDING STOCKPILES) IMMEDIATELY, AND COMPLETE THE STABILIZATION NO LATER THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED (NO LATER THAN 7 DAYS FOR SPECIAL OR IMPAIRED WATERS AS DESCRIBED IN PERMIT SECTION 23). AMEND SWPPP BY INDICATING THE LOCATION OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOIL AREAS (E.G., STEEP SLOPE AREAS).

PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES TO SATISFY THE ABOVE AND ALL CONDITIONS OF PERMIT SECTION 8.

- C. SEDIMENT CONTROL PRACTICES & TEMPORARY SEDIMENT BASINS (PERMIT SECTIONS 9 AND 14): BEFORE ANY LAND DISTURBING ACTIVITY BEGINS, ESTABLISH SEDIMENT CONTROL BMPs ON ALL DOWNGRADIENT AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATERS, INCLUDING BUT NOT LIMITED TO, CURB AND GUTTER SYSTEMS, STORM SEWER INLETS, DITCHES. BMPs MUST BE LOCATED UPGRADIENT OF ANY BUFFER ZONES AND MUST REMAIN IN PLACE UNTIL PERMANENT COVER IS ESTABLISHED FOR THE AREA DRAINING TO IT.

FOR CONSTRUCTION AREAS THAT DRAIN TOWARDS ADJACENT SURFACE WATERS, PRESERVE A 50 FOOT NATURAL BUFFER (100 FOOT FOR SPECIAL OR IMPAIRED WATERS AS DESCRIBED IN PERMIT SECTION 23), OR PROVIDE REDUNDANT PERIMETER SEDIMENT CONTROLS. IF PRESERVING A BUFFER IS INFESIBLE, DOCUMENT THIS DETERMINATION AND THE SUBSTITUTE BMPs IN THE SWPPP PER PERMIT ITEM 9.17.

PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES TO SATISFY THE ABOVE AND ALL CONDITIONS OF PERMIT SECTION 9 AND 14.

- D. DEWATERING AND BASIN DRAINING (PERMIT SECTION 10): COMPLY WITH SECTION 10 OF THE PERMIT.
- E. INSPECTIONS AND MAINTENANCE (PERMIT SECTION 11): COMPLY WITH SECTION 11 OF THE PERMIT.
- F. POLLUTION PREVENTION MANAGEMENT MEASURES (PERMIT SECTION 12): COMPLY WITH SECTION 12 OF THE PERMIT. AMEND SWPPP BY INDICATING THE LOCATION OF POTENTIAL POLLUTANT GENERATING ACTIVITIES ON SITE MAPS FOR THE DURATION OF CONSTRUCTION PER PERMIT SECTION 5.9.

4. SWPPP RESPONSIBILITIES/TRAINED INDIVIDUALS

- A. THE CONTRACTOR WILL OVERSEE SWPPP IMPLEMENTATION, REVISE AND AMEND THE SWPPP, AND PERFORM INSPECTIONS. THE FOLLOWING CONTRACTOR REPRESENTATIVE IS TRAINED TO PERFORM THESE DUTIES AND WILL ASSUME THESE RESPONSIBILITIES (PERMIT ITEMS 5.20, 21.2.b):

NAME: _____
TRAINING DATE/INSTRUCTOR/ENTITY: _____
TRAINING CONTENT/HOURS: _____

- B. THE CONTRACTOR WILL 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 (PERMIT ITEMS 5.20, 21.2.c):

NAME: _____
TRAINING DATE/INSTRUCTOR/ENTITY: _____
TRAINING CONTENT/HOURS: _____

- C. PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs WHO WILL COORDINATE WITH CONTRACTORS, SUBCONTRACTORS, AND OPERATORS ON-SITE TO OVERSEE IMPLEMENTATION OF THE SWPPP (PERMIT ITEM 5.21)(TYPICALLY GENERAL CONTRACTOR):

NAME/TITLE: _____

- D. CHAIN OF RESPONSIBILITY: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL SWPPP IMPLEMENTATION ON THE CONSTRUCTION SITE AND IS ACCOUNTABLE FOR SUBCONTRACTORS AND OTHER CONTRACTORS WORKING ON SITE AND THEIR COMPLIANCE WITH THE GENERAL STORMWATER PERMIT AND SWPPP REQUIREMENTS.

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.

ADAM BESSE
PRINTED NAME


SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR

CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

SWPPP

SHEET NO. E1

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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

5. REGULATORY AGENCIES AND PERMITS

A. COMPLY WITH REQUIREMENTS OF ALL REGULATORY AGENCIES AND PERMITS HAVING JURISDICTION DURING CONSTRUCTION ACTIVITIES.

6. DESCRIPTION OF THE CONSTRUCTION ACTIVITY / SWPPP COMPONENTS

A. NARRATIVE/TIMING (PERMIT ITEM 5.4):

- 1) PROJECT SUMMARY: THE PROJECT INVOLVES THE REPLACEMENT OF LEAD WATER SERVICE LINES IN THE GARY NEW DULUTH NEIGHBORHOOD AT APPROXIMATELY 165 INDIVIDUAL RESIDENTIAL LOCATIONS.

a. DEWATERING ACTIVITIES.

b. STREETS, CURB AND GUTTER, AND SIDEWALK CONSTRUCTION.

c. CONSTRUCTION OF OTHER UTILITIES (E.G. DRINKING WATER AND SANITARY SEWER).

d. SURFACE RESTORATION AND TURF STABILIZATION.
- 2) TIMING FOR INSTALLATION OF EROSION & SEDIMENTATION BMPS AND PERMANENT STORMWATER MANAGEMENT SYSTEMS, IN GENERAL SEQUENTIAL ORDER FROM FIRST TO LAST (PERMIT ITEM 5.4):

a. INLET PROTECTION FOR EXISTING INLETS / SILT FENCE / DELINEATION AREAS NOT TO BE DISTURBED / ROCK CONSTRUCTION ENTRANCE / TEMPORARY SEDIMENTATION BASIN: PROVIDE PRIOR TO CONSTRUCTION; MAINTAIN DURING CONSTRUCTION.

b. SILT FENCE AROUND STOCKPILES: PROVIDE DURING CONSTRUCTION.

c. PORTABLE SEDIMENT CONTAINMENT SYSTEMS FOR TREATING WATER FROM DEWATERING OPERATIONS : PROVIDE DURING CONSTRUCTION.

d. INLET PROTECTION FOR NEW INLETS: PROVIDE AS CONSTRUCTED.

e. OIL–GRIT PRETREATMENT UNITS

f. HARD SURFACING (E.G., BUILDING ROOFS, PAVEMENTS)

g. VEGETATIVE COVER / EROSION CONTROL BLANKETS: AFTER FINAL TOPSOIL PLACEMENT AND FINISH GRADING.

f. INFILTRATION AND FILTRATION BASINS

g. REMOVAL OF TEMPORARY BMPS: AFTER FINAL STABILIZATION IS ESTABLISHED.

3) IMPERVIOUS SURFACE AREAS / WATER QUALITY VOLUME:

- a. PRE–CONSTRUCTION IMPERVIOUS (PERMIT ITEM 5.8): 0.5 ACRES
- b. POST–CONSTRUCTION IMPERVIOUS (PERMIT ITEM 5.8): 0.5 ACRES
- c. NET NEW IMPERVIOUS: 0.0 ACRES
- d. WATER QUALITY VOLUME: NA CUBIC FEET
- e. ACTUAL WATER QUALITY VOLUME RETAINED ON–SITE / METHOD OF RETENTION: NA CUBIC FEET / INFILTRATION
- f. THE REASON THE FULL WATER QUALITY VOLUME CANNOT BE INFILTRATED (PER PERMIT ITEM 5.15): NA
- g. REMAINDER OF WATER QUALITY VOLUME AND ALTERNATIVE TREATMENT METHOD: NA

4) CHEMICALS AND CHEMICAL TREATMENT SYSTEMS USED FOR ENHANCING THE ON–SITE SEDIMENTATION PROCESS AND HOW COMPLIANCE WILL BE ACHIEVED (PERMIT ITEM 5.22): NA

5) PER PERMIT ITEM 5.13, DOCUMENTATION OF INFEASIBILITY FOR:

- a. TEMPORARY SEDIMENT BASIN (PERMIT PART 14.10): NA
- ALTERNATIVE (PERMIT ITEM 5.14): NA
- b. OBTAINING RIGHT–OF–WAY FOR PERMANENT STORMWATER MANAGEMENT SYSTEMS OF LINEAR PROJECTS: NA
- c. BUFFER ZONES (PERMIT ITEMS 9.17 AND 23.11): NA

6) STORMWATER MITIGATION MEASURES IDENTIFIED IN ENVIRONMENTAL REVIEW OR OTHER REQUIRED REVIEW (PERMIT ITEM 5.16): NA

B. STORMWATER REPORT (PERMIT ITEM 5.6): NA

C. SITE ASSESSMENTS FOR GROUNDWATER OR SOIL CONTAMINATION (PERMIT ITEM 5.25): NA

D. PLAN SHEETS:

- 1) SWPPP (PERMIT ITEM 5.2): THIS SHEET(S), INCLUDING DOCUMENTATION DESCRIBED AND REFERENCED HEREIN.
- 2) TEMPORARY BMPS / ESTIMATED QUANTITIES LOCATIONS OF AREAS NOT TO BE DISTURBED / SOIL TYPES (PERMIT ITEMS 5.3, 5.5, 5.7, 5.9): SEE SHEET

G2, SHEET G13, AND SHEETS 25–193, AND STANDARD DETAIL SHEETS.

3) PERMANENT BMPS (PERMIT ITEM 5.3, 5.5): SEE SHEETS G15–23.

4) EXISTING GRADES, DRAINAGE BOUNDARIES AND FLOW DIRECTIONS, DISCHARGE POINTS WHERE STORMWATER LEAVES THE SITE OR ENTERS SURFACE WATERS, AREAS OF STEEP SLOPES (PERMIT ITEM 5.9): SEE SHEETS 25–193.

5) FINAL GRADES, DRAINAGE BOUNDARIES AND FLOW DIRECTIONS, DISCHARGE POINTS WHERE STORMWATER LEAVES THE SITE OR ENTERS SURFACE WATERS, AREAS OF STEEP SLOPES (PERMIT ITEM 5.9): SEE SHEETS 25–193.

6) IMPERVIOUS SURFACING / METHODS OF FINAL STABILIZATION (PERMANENT COVER)(PERMIT ITEM 5.17): SEE SHEETS 25–193.

7) MAP OF SURFACE WATERS, EXISTING WETLANDS AND STORMWATER PONDS/BASINS IDENTIFIABLE ON USGS 7.5 MIN. QUAD. MAPS, NWI MAP OR EQUIVALENT WITHIN 1 MILE OF SITE (AERIAL RADIUS MEASUREMENT FROM PROJECT BOUNDARIES) THAT RECEIVE RUNOFF FROM SITE DURING OR AFTER CONSTRUCTION (IDENTIFY SPECIAL AND IMPAIRED WATERS AND ANY APPROVED TMDLS)(PERMIT ITEMS 5.10, 5.19): NA

8) FOR THE ABOVE SPECIAL OR IMPAIRED WATERS, DOCUMENTATION OF BMPS USED TO ADDRESS TMDL OR WLA REQUIREMENTS TO COMPLY WITH PERMIT SECTION 23: NA

9) SITE MAP OF CONSTRUCTION ACTIVITY 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 (PERMIT ITEM 5.11): NA

10)METHODS TO PRESERVE TOPSOIL AND TOPSOIL PRESERVATION AREAS (PERMIT ITEM 5.24): NA

11)METHODS TO MINIMIZE SOIL COMPACTION AND INFILTRATION AREAS TO BE PROTECTED FROM EXCESSIVE SOIL COMPACTION AND SEDIMENTATION (PERMIT ITEM 5.24): SEE SHEET G13 AND SHEETS 25–193

12)AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE THE DURATION OF EXPOSED SOILS (PERMIT ITEM 5.18): NA

13)DELINEATION OF BUFFER ZONES (PERMIT ITEM 5.12): NA

E. STANDARD DETAIL SHEETS: MnDOT STANDARD PLANS 5–297.405 IS HEREBY INCORPORATED BY REFERENCE. SHEETS 4 OF 8, 5 OF 8, AND 6 OF 8 SHALL APPLY. AVAILABLE AT: <https://standardplans.dot.state.mn.us/>

F. MAINTENANCE PLAN: NA

7. STANDARDS SPECIFICATIONS FOR CONSTRUCTION:

UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS, 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.

8. CALCULATIONS AND OTHER INFORMATION USED FOR DESIGN OF TEMPORARY SEDIMENTATION BASINS AND PERMANENT STORMWATER TREATMENT SYSTEMS (PERMIT ITEM 5.6): NA

9. PROCEDURES TO ESTABLISH ADDITIONAL TEMPORARY BMPS, AS NECESSARY, DURING CONSTRUCTION (PERMIT ITEM 5.5):

A. IF REGULAR INSPECTIONS OR OTHER OBSERVATIONS INDICATE THE NEED FOR ADDITIONAL TEMPORARY BMPS TO PREVENT EROSION, THEN PROVIDE ADDITIONAL BMPS BEFORE THE NEXT RAIN EVENT.

B. THE CONTRACTOR SHALL PREPARE, PROVIDE, AND MAINTAIN CLEAR AND UPDATED SITE PLANS OF THE CURRENT TEMPORARY BMPS ON THE CONSTRUCTION PLAN SHEETS PROVIDED.

C. AMEND THE SWPPP WITH ALL CHANGES TO THE SWPPP WITHIN 7 DAYS.

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.

ADAM BESSE
PRINTED NAME


SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR

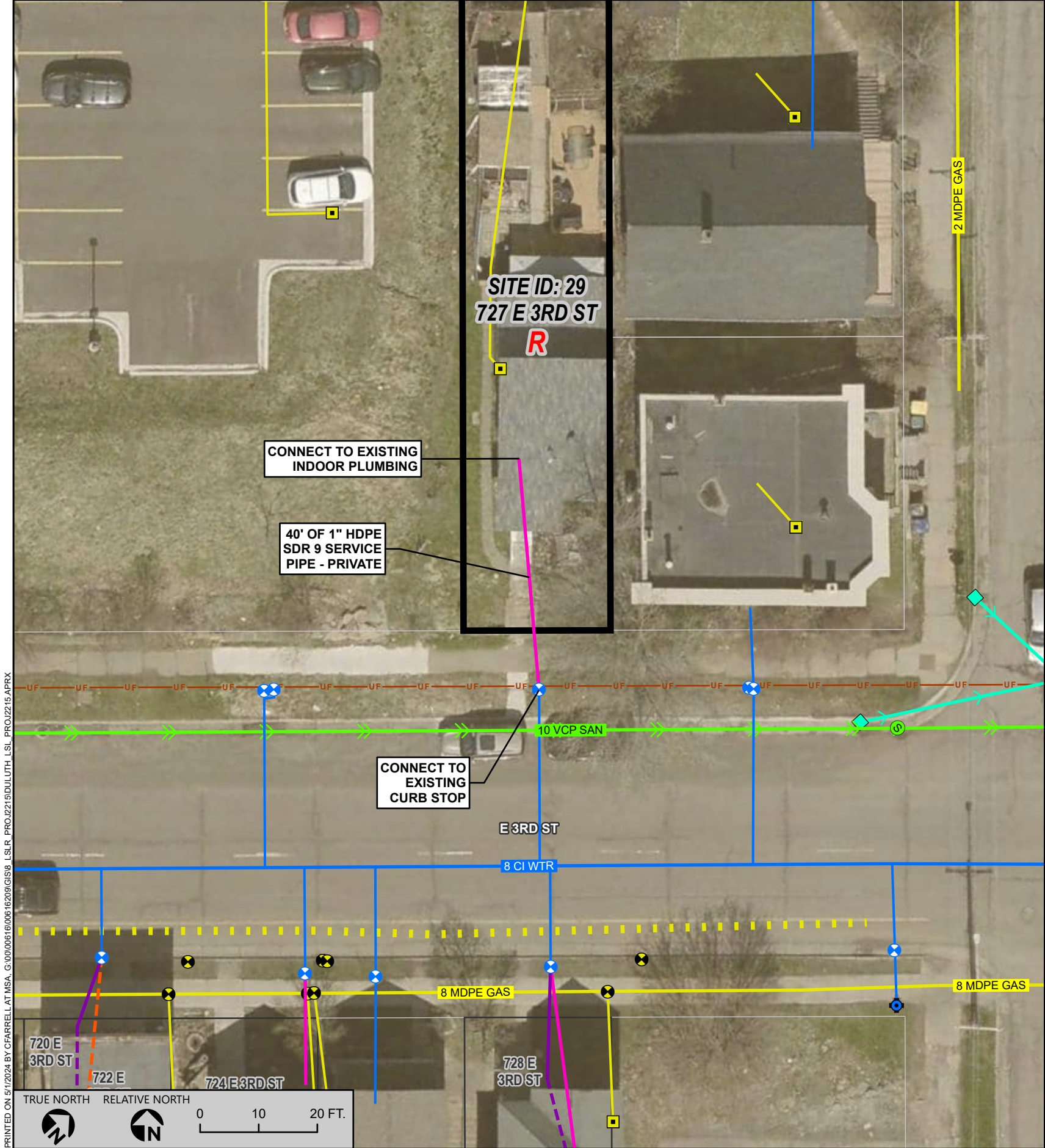
CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

SWPPP

SHEET NO. E2

PLOT DATE: 5/2/2024 3:34:09 PM FILE: G:\23-Pro\220879\500 Drawings\Civil\230879_01.0 - SWPPP.dwg



SITE INFORMATION	
TITLE HOLDER	WELZANT TAMARA R
CONSTRUCTION CONTACT	WELZANT TAMARA R, 612-735-3940
RENTAL PROPERTY	NO
WORK AGREEMENT SIGNED	YES
PRIVATE SERVICE MATERIAL	LEAD
PUBLIC SERVICE MATERIAL	NOT LEAD
MATERIAL CONFIRMATION NEEDED	NO
METER LOCATION NOTES	WATER METER LOCATED ALONG SOUTH WALL, TWO FEET EAST OF WEST WALL.
BASEMENT NOTES	UNFINISHED BASEMENT
SANITARY NOTES	SANITARY SERVICE LOCATED 3 FEET WEST OF WATER SERVICE
ELECTRICAL GROUND NOTES	SECONDARY GROUNDING OUTSIDE - NO, SECONDARY WIRE AT ELECTRICAL PANEL - NO
OTHER NOTES	SHALLOW BEDROCK EXPECTED.

ESTIMATED QUANTITIES
REMOVE & REPLACE CONCRETE CURB & GUTTER (P) (LIN FT): 8
TELEVISION & LOCATE SANITARY SERVICE (EACH): 1
CONNECT TO EXISTING CURBSTOP (EACH): 1
CONNECT TO EXISTING INDOOR PLUMBING (EACH): 1
1" HDPE SDR 9 SERVICE PIPE - PRIVATE (P) (LIN FT): 40
REMOVE & REPLACE 4" CONCRETE WALK (P) (SQ FT): 96
SODDING TYPE LAWN (P) (SQ YD): 4

