



**Stantec Consulting Services Inc.**  
733 Marquette Avenue, Suite 1000  
Minneapolis MN 55402-2314

April 10, 2024

Project/File: 173450027

**Todd Blomstrom, PE**  
**Rich Hibbard, PE**  
Saint Paul Regional Water Services  
1900 Rice Street  
Saint Paul, MN 55113

Dear Todd & Rich,

**Reference: Design Scope and Fee Proposal for Repair/Replacement of the Existing 16-inch Steel Watermain at Robert Street Bridge**

Stantec is pleased to submit the requested scope and fee proposal for the Replacement and Lining Design of the existing 16-inch steel watermain at Robert Street Bridge. The watermain ruptured due to a combination of freezing and deadhead hydraulic conditions which caused significant damage to the pipe fittings, supports, and some straight run sections. Due to the importance of this watermain, Saint Paul Regional Water Services (SPRWS) has declared this situation an emergency and requires that repair or replacement of the 16-inch watermain to be completed on a "fast-tracked" design timeline.

As part of our initial emergency authorization, Stantec has completed a technical memorandum that considered three repair/replacement alternatives, a risk register, and estimated costs. Based on discussions with SPRWS, the recommended path forward is to proceed with replacement of the pipeline sections within the bridge piers and utilizing PrimusLine for the straight runs from Pier 3 to the South Abutment. As part of the alternatives evaluation, Stantec completed a site visit, reviewed available inspection data, and is familiar with the scope of work to be completed so that the line may return to service.

**Stakeholders**

The following entities and people have been identified as key stakeholders in this effort.

1. SPRWS – Water Utility
  - a. Richard Hibbard, PE - Engineering Division Manager
  - b. Todd Bloomstrom, PE – Distribution Division Manager
2. MNDOT – Property Owner
3. Stantec – Design Engineering Consultant
  - a. Ash Hammerbeck, PE - Project Manager
  - b. Michael Leonard, PE – Structural Engineer, MnDOT Liaison
  - c. Russell Snow, PE – Project Technical Advisor
  - d. Joe Ortiz – Steel Pipe Design Lead
  - e. George Tey – Mechanical Coupling Design Lead
  - f. Ali Alavi – Condition Assessment Lead
  - g. Other subject matter experts and support staff, as needed.

Reference: Saint Paul Regional Water Services – Robert Street Bridge Watermain Repair/Replace

## Scope of Work

Stantec proposes to perform the following design and construction related services to support SPRWS in this effort. This scope also includes amendments to the initial scope that were requested by SPRWS during development of the technical memorandum as denoted with asterisks.

1. Evaluation of a third repair/replacement option for the technical memorandum.\*
2. Class 5 Opinion of Probable Construction Costs for all three repair/replacement options in the technical memorandum.\*
3. Prepare preliminary plans and specification for repairs, including replacement of expansion joints, repair of pipe hangers, brackets, thrust blocking, pipe replacement, insulation repair, repositioning piping back onto hangers, and pipe lining.
4. Conduct bi-weekly client check-in meetings to discuss design progress and coordinate permit requirements across stakeholders.
5. Review constructability limitations given confined workspace, access limitations, etc. and provide recommendations.
6. Review draft plans with SPRWS, receive and review comments, and update construction documents as needed.
7. Provide digital copy of final plans and specifications. Final construction drawings and specifications to be stamped by MN registered professional engineer.
8. Coordinate technical related items and plan reviews for proposed work with MnDOT during design and permitting.
9. Conduct a pre-bid meeting and provide services during bidding, including preparation of addenda and responses to contractor questions.
10. Provide technical support during bid opening (bidding to be carried out by SPRWS) and review of bids.
11. Provide updated construction cost estimate with preliminary and final design documents.
12. Provide construction administration services and on-site construction observation services including:
  - a. Prepare conformed construction documents.
  - b. Conduct a pre-construction meeting for awarded contractor and subcontractors, project stakeholders, and utilities.
  - c. Review up to ten (10) submittals from contractor for compliance with specifications.
  - d. Respond to up to five (5) contractor requests information (RFIs).
  - e. Provide up to 50 hours of on-site construction observation.
  - f. Review up to three (3) contractor requests for payment.
  - g. Prepare up to two (2) contract change orders.
  - h. Prepare agendas for and attend up to seven (7) construction meetings.
  - i. Conduct a final site visit to review work for completeness and prepare final punchlist.
  - j. Coordinate with SPRWS and contractor to complete project closeout.
13. Prepare as-built plans after constructions.

Stantec has made the following assumptions in preparing this scope and budget:

1. Specific pipe inspection services such as CCTV or other investigative inspections to be provided by others. Stantec will review all relevant inspection data.

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2. Utility relocation needed to complete the work will be designed by others and may be necessary prior to construction.
3. Existing as-built drawings provided by SPRWS will not be converted to CAD drawings for design.
4. Division 0 (General Conditions of Contract and Instruction to Bidders) specifications for the construction contract will be provided by SPRWS.
5. No surveying will be conducted as part of the design work. Design will be based on record drawings provided by SPRWS. Contractor will be required to provide detailed survey and field measurements prior fabrication of pipe, fittings and liner.

## Fee

Stantec proposes to complete the scope of work on a time and material basis not to exceed \$190,000, unless authorized for additional tasks by SPRWS. Time will be billed per the attached hourly summary. Reimbursable expenses to be included in monthly invoices. SPRWS and Stantec recognize that this is an estimate of the work to be performed, and this may require adjustment as the design and construction timeline become clearer.

Estimated fee breakdown by task is as follows:

Task	Estimated Hours	Estimated Fee
Technical Memo – Additional Services	16	\$3,500
Project Management	50	\$10,500
Preliminary Plans & Specs	235	\$54,000
Final Design	215	\$43,000
Permitting, MnDOT Coordination	60	\$12,000
Construction Administration	170	\$45,000
On-site Construction Observation	50	\$22,000

## Project Schedule

Stantec proposes the following milestone schedule that may be subject to change based on issuance of notice to proceed, permit review timelines, and bidding periods.

Task	Start Date	End Date
Prepare plans and specs	Monday 4/22/24	Friday 5/17/24
Submit draft plans and specs to SPRWS	Friday 5/17/24	Friday 5/17/24
Design Workshop	Friday 5/24/24	
Submit final set to MnDOT for Permit Review	Friday 6/14/24	Friday 6/28/24
Bidding Period	Monday 6/17/24	Friday 8/16/24
Construction	September 2024	November 2024

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If this proposal is acceptable, we are prepared to begin work when requested upon receipt of a signed contract and authorization from SPRWS.

Thank you again for the opportunity to present this proposal for our services.

Sincerely,

**STANTEC CONSULTING SERVICES INC.**

**Ash Hammerbeck, PE\***

Water/Wastewater Engineer

\*Licensed in MN

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**J. Russell Snow, PE\***

PMP, Senior Vice President, Sector Leader - Conveyance

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Denver CO 80202

Attachments: Stantec Hourly Billing Rate Table

Reference: Saint Paul Regional Water Services – Robert Street Bridge Watermain Repair/Replace

**Stantec Hourly Billing Rate Table**

Job Classification	2024 Billing Rates
Expert Engineer	\$375
Principal Engineer	\$332
Senior Engineer	\$304
Engineer IV	\$272
Engineer III	\$227
Engineer II	\$210
Engineer I	\$175
Administrative Support	\$124