



Building a Better World
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January 29, 2026

RE: West Superior Street
Design Amendment &
Construction Services Proposal
SEH No. DULUT 171078

Mr. Alex Popp, PE
Project Engineer
City of Duluth – Public Works and Utilities
411 W. 1st Street
Duluth, MN 55802

Dear Alex:

We are pleased to present this proposal to continue our work on the West Superior Street reconstruction project. This letter summarizes the additional design services completed since the February 2025 amendment and outlines our proposed construction administration, observation, testing, and staking services.

Design Amendments

Since project kickoff in January 2023, SEH has met with the City every two weeks to review progress and identify any work occurring outside the original contract scope. As part of our transparency process, all out-of-scope requests were discussed with you during those meetings. The City processed a design amendment in February 2025 to cover the additional work completed from January 2023 through February 2025.

Shortly after that amendment was approved, the City requested several additional design updates prior to the 100% plan submittal. SEH incorporated these changes and submitted the 100% plan set in May 2025 to the City and MnDOT. Final review comments were received in August 2025. Between March 2025 and January 2026, additional revisions were requested by both the City and MnDOT, requiring additional design modifications, review and coordination efforts. All requested updates have now been completed, and the revised final plans have been resubmitted for approval and signatures.

A description of the major work completed includes:

- **Landscape Architecture Changes** – After the initial amendment, the City provided updated planting bed layouts, revised planting selections (including shrubs and BMP linear beds), and turf revisions that substantially changed all the landscaping quantities. These updates required extensive revisions to the landscape sheets along with the SEQ and tabulations.
- **Specification Updates** – Because the project was not advertised in 2025, all specifications had to be updated from the MnDOT 2020 Special Provisions and the 2019 City boilerplate to the MnDOT 2025 Specifications and the City's 2025 standard template. This required a full review and update to pay items, special provisions, and tabulations.
- **Removal of EV Chargers from the plans** – Through the grant and funding sources review, the City determined that the EV chargers needed to be removed from the plans. We eliminated all references to details and pay items for the chargers.
- **Kia of Duluth** – Kia of Duluth has continued to request additional design review meetings which led to several driveway updates on their property. We attended meetings with Kia, addressed their design requests and made plan updates per City directions.
- **Park State Bank Changes** – The City instructed that the relocation of two flagpole lights be included in the construction plans rather than completed by the owner. SEH updated the plans and prepared the necessary temporary easements.

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 418 West Superior Street, Suite 200, Duluth, MN 55801-0229

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- **Sheet Metal Solutions** – The City instructed updates to the driveway layout for SMS along with review of potential sanitary sewer connections to WLSSD pipe.
- **MnDOT TH 53 Storm Sewer Changes** – During review, MnDOT notified the City that bridge deck drains would need to connect to basins originally slated for removal. SEH developed alternative layouts and revised the storm sewer design to accommodate MnDOT's requested configuration.
- **Parking/Wayfinding Signs** – The City wanted a custom sign for the Public Parking/Wayfinding signs. We created a detail and specifications and updated our plans/specs to reflect the new design.
- **Michigan Street Intersection** – As documented in the project kickoff meeting minutes, MnDOT was expected to provide the layout design for the Michigan Street intersection. Because MnDOT ultimately did not provide this layout, SEH and Alliant completed all turning-movement evaluations and prepared the concept and final geometric layouts to ensure the intersection design met operational and safety requirements.
- **Alliant / Geometric Layout** – Alliant provided layout updates for all the changes that have occurred on this project. This included turning movements, driveway relocates, radius adjustments, and streetscape adjustments.
- **Federal Grant Delay** – Administration of the RAISE grant was delayed by approximately one year due to the Federal Government shutdown. This delay extended the overall project schedule and caused interruptions in design progression, bidding preparation, and project coordination. As a result, SEH was required to pause and restart work multiple times, leading to additional design effort, repeated reviews, and added project management time that were not included in our original scope.
- **Hourly Rate Updates** – The original contract assumed design completion in December 2024. We have provided design services from January 2025 through January 2026 resulting in an unbudgeted cost directly attributable to the extended schedule.
- **Project Management, Misc. & Meetings** – Due to the extended project schedule, SEH continued providing project management and coordination services well beyond what was included in the original contract and the February 2025 amendment. This included bi-weekly progress meetings with City staff, additional client and stakeholder coordination meetings, and continued management of project schedule updates, scope adjustments, and contract administration.

The items listed above represent all major changes and additional work completed since our March 2025 submittal. The total cost of this additional work is \$214,000, and we are requesting a design amendment in this amount.

Construction Services

The current contract does not include construction services. At the City's request, SEH has prepared a detailed proposal to complete Project Administration, observation, staking, testing, and record drawings. We revised this proposal for construction services to match the updated construction schedule which involves pushing Phase 0 (originally planned for 2025) into 2026 with Phase 1. Phase 2 and Phase 3 will take place in 2027 and 2028 respectively.

The following describes the services we will provide as part of our construction services.

Administration and Observation

SEH will provide one lead full-time on-site Resident Project Representative (RPR), and one part-time assistant RPR during construction. Our RPR's, will be the project manager's agent at the site and will serve as the City's representative at the project site as the primary point of contact with the Contractor. We will keep you informed of the progress and ensure that the work is proceeding in accordance with the contract documents and your local requirements.

The specific construction administration duties to be provided by the SEH team will include:

- Arranging and conducting a preconstruction meeting with the City, contractor, subcontractors and utilities

- Conduct weekly project meetings with the Contractor
- Conducting shop drawing review and approval
- Daily construction field observations
- Recordkeeping of daily construction conditions and Contractor progress
- Measuring, verifying and recording pay item progress for pay estimates
- Coordination with Braun Intertec (material testing firm)
- Change order review and recommendations
- Documentation entry into One Office
- Review of monthly pay vouchers
- Preparation of punch list items prior to final payment
- Final inspection
- Record drawings
- Warranty inspection

Construction Staking and Observation

We will establish and maintain field control throughout the project corridor for use during construction. We will then coordinate with the Contractor to provide full construction staking on this project. We will also provide full record drawings per your requirements as defined in your Engineering Guidelines Manual.

Construction staking tasks include:

- Horizontal and vertical control for roadway and trail
- Centerline/offset stakes
- Easements and property corners
- Miscellaneous staking: silt fence, removals, etc.

Record Drawings

- Location/elevation of all City utilities
- CSV, PDF and CAD files as required
- Survey monuments

Environmental Inspection/Testing

As required by Phase 2 and the Remedial Action Plan submitted to the MPCA for this project, SEH will perform environmental monitoring and screening during excavation and dewatering. This includes collecting and submitting soil samples and chemical analysis. We will also prepare an Implementation Report documenting response actions after construction is complete.

Building Structural Inspections

SEH will subcontract with MBJ to provide structural inspections on the foundation repairs as shown in the plans.

Material Testing

SEH will subcontract with Braun Intertec to provide material testing and documentation meeting State Aid and Federal Aid standards during construction. Braun's work will follow the Federal Aid process including the State Aid Schedule of Materials Control.

We have developed the following work plan and fee estimate based on our project understanding.

Assumptions

For this project, we created a detailed list of our assumptions on the effort needed to complete the construction services. This is all based on the work occurring during the full construction seasons of 2026-2028. Our work plan and deliverables were built on the following assumptions:

- Work completed April 14 through November 8 for all of 2026 - 2028 (31 weeks/year).
- One full-time Sr. RPR plus supplemental assistant RPR when two crews are working.
- Contractor will work 50-hour weeks.
- Contractor will have two crews working full-time on-site in 2026 and 67% of the time in 2027 and 2028. We expect a busier 2026 since the work planned for 2025 has now been moved to 2026.

- 31 weeks*3years @ 50 hours/week = 4,650 lead inspector hours
- 31 weeks*2years*2/3 + 31 weeks @ 50 hours/week = 3,617 assistant inspector hours
- Included 70 hours in 2026 and 50 hours after that distributed among accounting, PM, CM for invoicing and general PM tasks.
- Included 20 hours in 2026 to assist with construction bidding and awarding the project.
- Included 18 hours in 2026 for pre-construction activities such as kickoff meetings, coordination with Contractor, and prep for construction.
- Included 40 hours for Lead RPR and 20 hours for Construction Manager to review the project prior to the start of construction.
- Included 100 hours in 2026 and 50 hours per year after to review submittals and shop drawings.
- Included 1.5 hours/construction day for Construction Manager in 2026 and 1 hour/day after for construction administration.
- Included 0.5 hours/construction day for Project Manager and 1 hour/construction day for Lead Designer to provide to provide engineering support for design and field changes, tracking changes, and design assistance.
- Included two (2) hours/week for Construction Manager to attend construction progress meetings with Project Manager attending about 1/3 of the meetings. An additional hour of time is included each month for Construction Manager to attend public meetings.
- Included one hour per month of construction for engagement team to update the website.
- SEH will provide all construction staking - assumed no winter conditions, assumed stakes/hubs wiped out by the contractor will need to be replaced at cost of contractor, survey equipment included in cost, SEH needs appropriate notice when staking is requested.
- SEH will provide field inspection of contaminated soils when working in areas where contamination was detected. This will include monitoring laboratory testing, correspondence with the MPCA, and time to address environmental related field questions.
- SEH will provide lighting inspections through routine visits to the site, and on call assistance for any technical lighting related questions.
- SEH will provide landscaping inspections through approximately four site visits each year and will assist with technical landscaping questions and submittal review.
- SEH will perform four visits to the site during construction to assist with traffic signal inspections and another two site visits to assist with turning on the signals.
- SEH will retain MBJ, Alliant and Damon Farber to provide assistance and clarification on the portions of design they performed.
- Assumed 85 hours/year to finalize record drawings for the year.
- Assumed 25 hours/year for funding agency compliance documentation.
- Assumed an additional 95 hours in 2028 for project closeout, final punch lists, finalization.

Team Assignments

Matt Bolf has served as Project Manager throughout the design phase of this project. For construction we are proposing to use a Construction Manager (CM) in conjunction with Matt to oversee the daily activities for this project. The CM will be responsible for coordinating SEH RPR's, survey crews, testing firm, facilitating weekly meetings, and being the point of contact for all field changes. Matt will still serve as overall Project Manager and will work closely with Cory Ascherman who will serve as CM. Cory is a Construction Engineer who regularly performs the role of Construction Manager on large MnDOT projects. He's recently worked in this capacity on the Twin Ports Interchange project and Blatnik Bridge preliminary work. Our primary team members are shown below.

Role	Name
Project Manager	Matt Bolf
Construction Manager	Cory Ascherman
Lead RPR	Jerry Haldorson
Secondary RPR	Determined Based on Project Need
Environmental Inspection/Testing	Mark Sherrill

Fee Estimate

Our current contract and proposed amendments are summarized as follows:

Requested design amendment:	\$215,000
SEH Construction Services	\$2,851,300
Braun Materials Testing Services	\$295,800
MBJ Structural Inspections	\$19,000
Alliant and Damon Farber Assistance	\$43,000
Total Contract Amendment:	\$3,424,100
Current contract for design:	\$2,909,551
<u>Requested Design and Construct Amendments:</u>	<u>\$3,424,100</u>
Total SEH Contract:	\$6,333,651

All construction services will be billed on an hourly basis. At the end of each construction season, we will summarize our efforts and review the budget with City staff.

We look forward to the opportunity to work with you on this project and to discuss this proposal with you. If you have any questions, please contact me at **218.260.9551** or via email at **mbolf@sehinc.com**.

Sincerely,

SHORT ELLIOTT HENDRICKSON INC.



Matt Bolf, PE
Project Manager
(Lic. MN, WI)

mh

Attachments: Braun Intertec's Scope of Work
c: Cari Pedersen

January 30, 2026

Proposal QTB208386-1

Matt Bolf, PE
Short Elliott Hendrickson, Inc.
418 West Superior Street, Suite 200
Duluth, MN 55802

Re: Revised Proposal for Construction Materials Testing Services
West Superior Street Reconstruction
SP 118-109-021
West Superior Street, from Carlton Street to West Michigan Street
Duluth, Minnesota

Dear Mr. Bolf:

Braun Intertec Corporation (Braun Intertec) is pleased to submit this revised proposal to provide construction materials testing services for the West Superior Street Reconstruction Project in Duluth, Minnesota.

We have completed the geotechnical evaluation, so we have a unique understanding of the site and construction challenges. We can aid the construction team by applying this experience and transferring our knowledge developed during the design phase which will provide professional continuity to the construction. Our work on the project to date gives us familiarity with the project team and design development which allows us to understand some of the considerations used when developing the project's design.

Since our inception in 1957, we have grown into one of the largest employee owned engineering firms in the nation. With more than 1,000 employee owners, retaining our firm gives you access to a diverse range of services and professionals you can consult with if the unforeseen occurs. The size of our company also allows us to respond quickly when schedule constraints occur.

Our Understanding of Project

We understand this project will include the construction of pavement subgrade preparation, aggregate base placement, new concrete curb and gutter, sidewalk, and driveways along with a new bituminous pavement. Improvements to the sanitary, storm, and water main utilities will also be part of this project.

We understand the project will be constructed in four phases. The project schedule is as follows:

- Phase 1 (2026) – 27th Avenue West / Superior Street intersection and West Michigan Street / Superior Street intersection and Michigan Street to 18th Avenue West
- Phase 2 (2027) – 18th Avenue West to 24th Avenue West
- Phase 3 (2028) – 24th Avenue West to Carlton Street

This is a City of Duluth project with federal funding. Projects that are constructed with federal funding are required to perform Quality Control and Quality Assurance (QC/QA) testing in accordance with the Minnesota Department of Transportation's (MnDOT's) 2025 Standard Specifications for Construction and MnDOT's Schedule of Materials Control. We understand this project is using MnDOT's 2025 State Aid for Local Transportation (SALT) Schedule of Materials Control. Personnel with MnDOT certifications must complete the monitoring and testing. Braun Intertec will perform the QA field testing and plant monitoring on the project as listed in our scope of services and as shown on our attached cost estimate table. The contractor will be responsible for performing all of the required QC testing and submitting all the documentation upon completion of the project. An audit of the project could be conducted upon completion. The audit may include reviewing tests and paperwork provided by your QC/QA representative.

Available Project Information

This proposal was prepared using the following documents and information.

- Partial project plan pages prepared by Short Elliot Hendrickson, Inc., not dated.
- Construction staging plan, not dated.
- A geotechnical evaluation report prepared by Braun Intertec Corporation, dated September 25, 2023.
- Addendum 1 to Geotechnical Evaluation, prepared by Braun Intertec Corporation, dated March 22, 2024.
- Pavement Design and Analysis Letter, prepared by Braun Intertec Corporation, dated January 5, 2024.
- Discussions with Mr. Matt Henderson with Short Elliot Hendrickson, Inc.
- We were not provided any specifications for the project or confirmation on what schedule of materials control the project will be using.

Braun Intertec Project Personnel

For this project, we will provide technicians that are MnDOT certified in each specialized field. For the proposed scope of services, our staff will have the following certifications:

- Aggregate Production
- Grading & Base Tester
- Concrete Field Tester
- Concrete Plant Tester
- Bituminous Street Inspector
- Bituminous Plant Tester
- MnDOT or ACI Strength Testing

Accredited Laboratory

In the 2025 SALT Schedule of Material Control, which is part of this project's testing requirements, MnDOT requires laboratories performing acceptance tests for payment to be accredited by the AASHTO Resource (formerly AASHTO Materials Reference Laboratory [AMRL]) for all test procedures performed.

Braun Intertec is one of the few independent testing companies that is accredited in the state. With Braun Intertec's Metro Material Laboratory typically operating 24 hours a day, laboratory test results are delivered in a timely manner.

Scope of Services

Testing services will be performed on an on-call, as-needed basis as requested and scheduled by you or your on-site project personnel. Based on our understanding of the project, we propose the following services.

Soil Related Services

- Perform nuclear gauge density tests on common embankment, sub-grade, retaining wall backfill, and utility backfill materials.
- Perform nuclear gauge density tests on sidewalk and trail subgrade preparation.
- Perform Dynamic Cone Penetrometer (DCP) tests on select granular borrow materials.
- Perform Dynamic Cone Penetrometer (DCP) tests on aggregate base material.
- Perform Dynamic Cone Penetrometer (DCP) tests on sidewalk and trail aggregate base materials.

- Perform moisture content tests at time of compaction on backfill, subgrade preparation, select granular borrow, and aggregate base materials.
- Perform gradation tests on select granular borrow and aggregate base materials.
- Perform laboratory standard Proctor tests on backfill and fill materials.
- Prepare the preliminary and final grading and base report along with assembling the random sampling locations report for the aggregate base according to MnDOT Specifications.

Concrete Field Testing Related Services

- Sample and test the plastic concrete for slump, air content, temperature prior to placement. We assume that we will be able to appropriately dispose of excess concrete (and associated wash water) on site at no additional cost to us.
- Prepare 4-inch by 8-inch cylinders for compressive strength testing. A set of three cylinders will be tested at 28 days for each set cast. If field cure cylinders are requested, each additional cylinder will be charged at the unit price listed in our cost estimate.
- Laboratory compressive strength testing of cylinders.
- Perform concrete ready-mix batch plant inspections which include periodic observations of plant operations, collecting and submitting aggregate samples, cement samples and admixture samples for testing. Review and periodically observe contractor's quality control gradation and moisture testing of coarse and fine aggregates. Perform concrete plant monitoring per MnDOT 2461 specification.
- Perform coarse and fine aggregate verification gradation tests. Compare agency test results with contractor's test results for compliance with MnDOT 2461 specification.

Bituminous Related Services

- Perform bituminous plant inspections which includes periodically observing the contractor's quality control testing, observing one set of contractor tests per day and collecting companion samples for quality assurance tests. Perform bituminous plant monitoring per MnDOT's 2360 specification.
- Collect verification samples per MnDOT's 2360 specification and randomly select one sample per day per mix to run quality assurance tests on. Perform quality assurance tests on the verification samples which include the following tests: Rice specific gravity, asphalt content, extracted aggregate gradation, gyratory density, coarse aggregate angularity, and fine aggregate angularity. Compare agency test results with contractor's test results for compliance with MnDOT 2360 specification.
- Randomly determine bituminous core locations by using MnDOT's random core worksheet and mark pavement core locations.
- Observe the contractor coring and core testing in accordance with MnDOT 2360 specification, which include watching quality control personnel weigh the cores at their laboratory.

- Collect companion cores and test for thickness and density of pavement cores. Compare agency test results with contractor's test results for compliance with MnDOT 2360 specification. Review incentive and disincentive sheets completed by contractor.

MnDOT Independent Assurance (IA)

On Federal funded projects, MnDOT requires one of their IA personnel observe the QC/QA representative performing soil, concrete and bituminous tests. We will schedule the IA visits as required for Braun Intertec Personnel.

Reporting and Project Management

Test results will be issued weekly for the project as the various tasks are performed. If, at any time, there are failing tests which do not appear to be in accordance with the plans and specifications or MnDOT's Schedule of Materials Control, we will notify the engineer's representative and any others that we are directed to notify.

Before the final project closeout, we will issue a final report, we propose to do a yearly close out report and compile the yearly close out report that will become the project final report. The yearly close out report will include the following for that specific year:

- Braun Intertec technician roster for technicians that conducted testing on the project.
- Completed MnDOT Materials Certification Exceptions Summary for items tested by Braun Intertec.
- Completed Preliminary and Final Grading and Base Report.
- Completed IA Summary Report.
- Moisture, Density, DCP, Proctor and Gradation tests.
- Concrete mix designs.
- Concrete compressive strength results.
- Concrete batch plant inspection field forms.
- Concrete contractor's gradation, moisture and #200 wash test results.
- Concrete contractor's copies of cement and fly-ash bill of ladings.
- Completed test reports for samples sent to the MnDOT Materials Lab.
- Bituminous mix designs.
- Bituminous batch plant inspection field forms.
- Bituminous verification test results.

- Bituminous contractor's summary sheets.
- Random core log location worksheets.
- Completed density incentive/disincentive worksheets.
- Copies of concrete and bituminous plant certifications.

Basis of Scope of Work

The costs associated with the proposed scope of services were estimated using the following assumptions. If the construction schedule is modified or the contractor completes the various phases of the project at different frequencies or durations than shown in this proposal, we may need to adjust the overall cost accordingly. **Since full plans and specifications were not provided at the time of this estimate we ask that once the final construction documents are completed that we can review and adjust this proposal and cost estimate as needed to be in alignment of the completed plans and specifications.** The scope of work and number of trips required to perform these services are as shown in the attached table. Notable assumptions in developing our estimate include:

- We assume it will take eighty-nine trips to complete the nuclear density gauge testing on this project.
- We assume compaction testing on granular materials will be performed using the Dynamic Cone Penetration (DCP) method; we assume the compaction testing will require fourteen trips to complete.
- We assume compaction testing on aggregate base will be performed using the Dynamic Cone Penetration (DCP) method; we assume the compaction testing will require forty-six trips to complete.
- We assume one hundred sixty-four sets of concrete tests will be required to complete the project.
- We assume the electrical contractor will install the light pole foundations at a rate of 12 concrete placements per year, constructing 6 foundations per placement.
- We assume the rebar observations before concrete placements will be completed by the project representative's construction oversight manager.
- We assume one coarse aggregate and one fine aggregate in the ready mix concrete.
- We assume the ready mix concrete for this project will come out of one ready mix plant.
- We assume the MnDOT Metro Materials laboratory will be required to test the cellular concrete, we have included travel time for transporting the samples to their laboratory.
- We assume bituminous paving will be completed in twenty-four days for this project.
- We assume MnDOT will calibrate and certify the ready mix concrete plant and bituminous plant for this project each year.

- We assume your full time on-site construction observer will observe the test rolling for this project.
- We assume the project will be specified with no testing of longitudinal joint cores for bituminous and only testing one companion core per lot.
- We assume the project engineer of record will review and approve the contractor's quality control submittals and test results.
- You, or others you may designate, will provide us with current and approved plans and specifications for the project. Modification to these plans must also be sent to us so we can review their incorporation into the work.
- We will require a minimum of 24 hours' notice for scheduling inspections for a specific time. Shorter than 24 hours' notice may impact our ability to perform the requested services, and the associated impacts will be the responsibility of others.

If the work is completed at different rates than described above, this proposal should be revised.

Cost and Invoicing

We will furnish the services described herein for an estimated fee of **\$295,708.50**. **Our estimated costs are based on industry averages for construction production. Depending on the contractor's performance, our costs may be significantly reduced or slightly higher than estimated.** A tabulation showing our estimated hourly and/or unit rates associated with our proposed scope of services is also attached. The actual cost of our services will be based on the actual units or hours expended to meet the requirements of the project documents.

Our estimated quantities were developed based on our past experience with local contractor production. As a construction schedule has not yet been developed, once a contractor has been selected and a schedule prepared we can review or estimate and adjust the budget as applicable. In addition we propose to review our estimate with the City and SEH regularly over the course of the project.

This cost estimate was developed with the understanding that the scope of services defined herein will be required and requested during our normal work hours of 6:00 a.m. to 4:00 p.m., Monday through Friday. Services that we are asked to provide to meet the project requirements or the contractor's construction schedule **outside** our normal business hours will be invoiced using an overtime rate factor. The factor for services provided outside our normal work hours or on Saturday will be 1.25 times the listed hourly rate for the service provided. The factor for services provided on Sunday or legal holidays will be 1.5 times the listed hourly rate for the service provided. We have not included premiums for overtime in our cost estimate; however, we recommend that allowances and contingencies be made for overtime charges based on conversations with the contractor. You will be billed only for services provided on a time and materials basis.

Because our services are directly controlled by the schedule and performance of others, the actual cost may vary from our estimate. It is difficult to project all of the services and the quantity of services that may be required for any project. If services are required that are not discussed above, we will provide them at the rates shown in the attached table or, if not shown, at our current Schedule of Charges. We will invoice you on a monthly basis.

General Remarks

We will be happy to meet with you to discuss our proposed scope of services further and clarify the various scope components.

We appreciate the opportunity to present this proposal to you. After reviewing this proposal, **please sign and return one copy to our office as notification of acceptance and authorization to proceed.** If anything in this proposal is not consistent with your requirements, please let us know immediately. Braun Intertec will not release any written reports until we have received a signed agreement. Also, ordering services from Braun Intertec constitutes acceptance of the terms of this proposal.

The proposed fee is based on the scope of services described and the assumption that our services will be authorized within 30 days and that others will not delay us beyond our proposed schedule.

Our services will be provided under the terms of the Master Subcontract for Services, between Short Elliot Hendrickson, Inc., and Braun Intertec Corporation, dated March 19, 2024.

To have questions answered or schedule a time to meet and discuss our approach to this project further, please contact Mickale Endres (507.514.0514 or MEndres@braunintertec.com) or Joe Butler (218.969.3179 or JButler@braunintertec.com).

Sincerely,

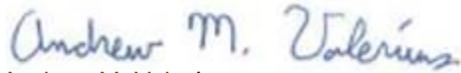
BRAUN INTERTEC CORPORATION



Mickale L. Endres, PE
Senior Manager, Senior Engineer



Joseph C. Butler, PE
Director, Senior Engineer



Andrew M. Valerius
Associate Director, Senior Project Manager

Attachments:
Cost Estimate Tables

The proposal is accepted. We will reimburse you in accordance with this agreement, and you are authorized to proceed:

Authorizer's Firm

Authorizer's Signature

Authorizer's Name (please print or type)

Authorizer's Title

Date



Fee Estimate 10000775_001

W. Superior Street Reconstruction (SP 118-109-021) - 2026

Client:
Short Elliott Hendrickson, Inc.
Matthew Bolf
418 W. Superior St, Suite 200
Duluth, Minnesota 55802
(218) 279-3025

Work Site Address:
102 South 27th Avenue West
Duluth, Minnesota 55806

	Qty/Hours	Rate	Amount
Task 1: MnDOT Testing			
Subtask 1.1: Field and Laboratory Testing			\$75,526.50
Subtask 1.1.1: Soil Testing			\$21,890.00
Soil Compaction Testing - Nuclear	70.00	95.00	\$6,650.00
<i>Utilities - Storm, Sanitary, Water Main</i>	<i>12 Trips @ 2.5 Hr</i>	<i>30.00</i>	
<i>Subgrade Preparation</i>	<i>6 Trips @ 2.5 Hr</i>	<i>15.00</i>	
<i>Walks and Trails - Subgrade Preparation</i>	<i>10 Trips @ 2.5 Hr</i>	<i>25.00</i>	
Soil Compaction Testing - Non Nuclear - DCP's	66.00	95.00	\$6,270.00
<i>Select Granular Borrow</i>	<i>6 Trips @ 3 Hr</i>	<i>18.00</i>	
<i>Aggregate Base</i>	<i>6 Trips @ 3 Hr</i>	<i>18.00</i>	
<i>Walks and Trails - Aggregate Base</i>	<i>10 Trips @ 3 Hr</i>	<i>30.00</i>	
Soil Sample pick-up	16.00	95.00	\$1,520.00
<i>Sample Pick-up</i>	<i>8 Trips @ 2 Hr</i>	<i>16.00</i>	
Nuclear moisture-density meter charge, per hour	70.00	26.00	\$1,820.00
Soil Topsoil Testing with Nutrients MnDOT 3877 2B each	2.00	415.00	\$830.00
Asphalt Content of Aggregate Base ASTM D6307 each	2.00	160.00	\$320.00
Soil Proctor MD Relationship (Standard) ASTM D698 each	10.00	200.00	\$2,000.00
Soil Sieve Analysis with 200 wash, each	8.00	165.00	\$1,320.00
Trip Charge	58.00	20.00	\$1,160.00
Subtask 1.1.2: Concrete Testing			\$36,918.50
Concrete Testing	121.50	95.00	\$11,542.50
<i>Medians</i>	<i>1 Trip @ 2.5 Hr</i>	<i>2.50</i>	
<i>Sidewalks and Aprons</i>	<i>24 Trips @ 2.5 Hr</i>	<i>60.00</i>	
<i>Curb and Gutter</i>	<i>12 Trips @ 2.5 Hr</i>	<i>30.00</i>	
<i>Light Pole Foundations</i>	<i>10 Trips @ 2.5 Hr</i>	<i>25.00</i>	
<i>Control Density Hydraulic Fill</i>	<i>1 Trip @ 4 Hr</i>	<i>4.00</i>	
Concrete Cylinder Pick Up	39.00	95.00	\$3,705.00
<i>Cylinder Pickup</i>	<i>39 Trips @ 1 Hr</i>	<i>39.00</i>	
Concrete Ready Mix Plant Monitoring	78.00	105.00	\$8,190.00
<i>Ready Mix Plant Monitoring</i>	<i>13 Trips @ 6 Hr</i>	<i>78.00</i>	
Project Manager	13.00	180.00	\$2,340.00
Trip Charge	100.00	20.00	\$2,000.00
Concrete Compressive Strength Cylinders ASTM C39 each	147.00	33.00	\$4,851.00
<i>Medians</i>	<i>1 Set @ 3 Qty</i>	<i>3.00</i>	
<i>Sidewalks and Aprons</i>	<i>24 Sets @ 3 Qty</i>	<i>72.00</i>	
<i>Curb and Gutter</i>	<i>12 Sets @ 3 Qty</i>	<i>36.00</i>	
<i>Light Pole Foundations</i>	<i>10 Sets @ 3 Qty</i>	<i>30.00</i>	
<i>Control Density Hydraulic Fill</i>	<i>2 Sets @ 3 Qty</i>	<i>6.00</i>	
Aggregates Sieve Analysis ASTM C136 each	26.00	165.00	\$4,290.00
Subtask 1.1.3: Pavement Testing			\$16,718.00
Asphalt Verification Testing	96.00	105.00	\$10,080.00
<i>Bituminous Plant Monitoring</i>	<i>8 Trips @ 6 Hr</i>	<i>48.00</i>	

		Qty/Hours	Rate	Amount
<i>6 Hr</i>	<i>Mark and Observe Contractor Coring and Testing</i>	<i>8 Trips @</i>	<i>48.00</i>	
	Trip Charge	16.00	20.00	\$320.00
	MnDOT Asphalt Verification, per sample	8.00	720.00	\$5,760.00
	Asphalt Thickness and Density of Core ASTM D3549 each	9.00	62.00	\$558.00
	Subtask 1.2: Project Management			\$14,940.00
	Project Manager	52.00	180.00	\$9,360.00
	Senior Project Manager	6.00	230.00	\$1,380.00
	Project Assistant IV	25.00	88.00	\$2,200.00
	Final Report - Yearly Close-Out Report	1.00	2,000.00	\$2,000.00
	Task 1 Total:			\$90,466.50
	Project Total			\$90,466.50



Fee Estimate 10000775_002

W. Superior Street Reconstruction (SP 118-109-021) - 2027

Client:

Short Elliott Hendrickson, Inc.
Matthew Bolf
418 W. Superior St., Suite 200
Duluth, Minnesota 5582
(218) 279-3025

Work Site Address:

West Superior Street, from Carlton Street to West
Michigan Street
Duluth, Minnesota 55806

	Qty/Hours	Rate	Amount
Task 1: MnDOT Testing			
Subtask 1.1: Field and Laboratory Services			\$80,018.00
Subtask 1.1.1: Soil Testing			\$20,915.00
Soil Compaction Testing - Nuclear	75.00	98.00	\$7,350.00
<i>Utilities - Storm, Sanitary, Water Main</i>	<i>14 Trips @ 2.5 Hr</i>	<i>35.00</i>	
<i>Subgrade Preparation</i>	<i>4 Trips @ 2.5 Hr</i>	<i>10.00</i>	
<i>Walks and Trails - Subgrade</i>	<i>12 Trips @ 2.5 Hr</i>	<i>30.00</i>	
Soil Compaction Testing - Non Nuclear - DCP's	60.00	98.00	\$5,880.00
<i>Select Granular Borrow</i>	<i>4 Trips @ 3 Hr</i>	<i>12.00</i>	
<i>Aggregate Base</i>	<i>4 Trips @ 3 Hr</i>	<i>12.00</i>	
<i>Walks and Trails - Aggregate Base</i>	<i>12 Trips @ 3 Hr</i>	<i>36.00</i>	
Soil Sample pick-up	12.00	98.00	\$1,176.00
<i>Sample Pick-up</i>	<i>6 Trips @ 2 Hr</i>	<i>12.00</i>	
Nuclear moisture-density meter charge, per hour	75.00	28.00	\$2,100.00
Soil Topsoil Testing with Nutrients MnDOT 3877 2B each	1.00	425.00	\$425.00
Asphalt Content of Aggregate Base ASTM D6307 each	1.00	164.00	\$164.00
Soil Sieve Analysis with 200 wash, each	7.00	170.00	\$1,190.00
Soil Proctor MD Relationship (Standard) ASTM D698 each	6.00	205.00	\$1,230.00
Trip Charge	56.00	25.00	\$1,400.00
Subtask 1.1.2: Concrete Testing			\$41,903.00
Concrete Testing	132.00	98.00	\$12,936.00
<i>Control Density Hydraulic Fill</i>	<i>3 Trips @ 4 Hr</i>	<i>12.00</i>	
<i>Sidewalks and Aprons</i>	<i>28 Trips @ 2.5 Hr</i>	<i>70.00</i>	
<i>Curb and Gutter</i>	<i>10 Trips @ 2.5 Hr</i>	<i>25.00</i>	
<i>Light Pole Foundations</i>	<i>10 Trips @ 2.5 Hr</i>	<i>25.00</i>	
Concrete Cylinder Pick Up	44.00	98.00	\$4,312.00
<i>Cylinder Pickup</i>	<i>44 Trips @ 1 Hr</i>	<i>44.00</i>	
Concrete Ready Mix Plant Monitoring	84.00	108.00	\$9,072.00
<i>Ready Mix Plant Monitoring</i>	<i>14 Trips @ 6 Hr</i>	<i>84.00</i>	
Project Manager	14.00	185.00	\$2,590.00
Trip Charge	109.00	25.00	\$2,725.00
Concrete Compressive Strength Cylinders ASTM C39 each	162.00	34.00	\$5,508.00
<i>Control Density Hydraulic Fill</i>	<i>6 Sets @ 3 Qty</i>	<i>18.00</i>	
<i>Sidewalks and Aprons</i>	<i>28 Sets @ 3 Qty</i>	<i>84.00</i>	
<i>Curb and Gutter</i>	<i>10 Sets @ 3 Qty</i>	<i>30.00</i>	
<i>Light Pole Foundations</i>	<i>10 Sets @ 3 Qty</i>	<i>30.00</i>	
Aggregates Sieve Analysis ASTM C136 each	28.00	170.00	\$4,760.00
Subtask 1.1.3: Pavement Testing			\$17,200.00
Asphalt Verification Testing	96.00	108.00	\$10,368.00
<i>Bituminous Plant Monitoring</i>	<i>8 Trips @ 6 Hr</i>	<i>48.00</i>	
<i>Mark and Observe Contractor Coring and Testing</i>	<i>8 Trips @</i>	<i>48.00</i>	
<i>6 Hr</i>			
Trip Charge	16.00	25.00	\$400.00

	Qty/Hours	Rate	Amount
MnDOT Asphalt Verification, per sample	8.00	740.00	\$5,920.00
Asphalt Thickness and Density of Core ASTM D3549 each	8.00	64.00	\$512.00
Subtask 1.2: Project Management			\$16,975.00
Project Manager	60.00	185.00	\$11,100.00
Senior Project Manager	5.00	235.00	\$1,175.00
Project Assistant IV	30.00	90.00	\$2,700.00
Final Report - Yearly Close-Out Report	1.00	2,000.00	\$2,000.00
Task 1 Total:			\$96,993.00
Project Total			\$96,993.00



Fee Estimate 10000775_003

W. Superior Street Reconstruction (SP 118-109-021) - 2028

Client:

Short Elliott Hendrickson, Inc.
Matthew Bolf
418 W. Superior St., Suite 200
Duluth, Minnesota 55802
(218) 279-3025

Work Site Address:

West Superior Street, from Carlton Street to West
Michigan Street
Duluth, Minnesota 55806

	Qty/Hours	Rate	Amount
Task 1: MnDOT Testing			
Subtask 1.1: Field and Laboratory Testing			\$90,859.00
Subtask 1.1.1: Soil Testing			\$22,295.00
Soil Observations	3.00	110.00	\$330.00
<i>Retaining Wall Foundation Excavations</i>	<i>1 Trip @ 3 Hr</i>	<i>3.00</i>	
Soil Compaction Testing - Nuclear	77.50	100.00	\$7,750.00
<i>Utilities - Storm, Sanitary, Water Main</i>	<i>14 Trips @ 2.5 Hr</i>	<i>35.00</i>	
<i>Retaining Wall Backfill</i>	<i>3 Trips @ 2.5 Hr</i>	<i>7.50</i>	
<i>Subgrade Preparation</i>	<i>4 Trips @ 2.5 Hr</i>	<i>10.00</i>	
<i>Walks and Trails - Subgrade Preparation</i>	<i>10 Trips @ 2.5 Hr</i>	<i>25.00</i>	
Soil Compaction Testing - Non Nuclear - DCP's	54.00	100.00	\$5,400.00
<i>Select Granular Borrow</i>	<i>4 Trips @ 3 Hr</i>	<i>12.00</i>	
<i>Aggregate Base</i>	<i>4 Trips @ 3 Hr</i>	<i>12.00</i>	
<i>Walks and Trails - Aggregate Base</i>	<i>10 Trips @ 3 Hr</i>	<i>30.00</i>	
Soil Sample pick-up	16.00	100.00	\$1,600.00
<i>Sample Pick-up</i>	<i>8 Trips @ 2 Hr</i>	<i>16.00</i>	
Nuclear moisture-density meter charge, per hour	77.50	30.00	\$2,325.00
Soil Topsoil Testing with Nutrients MnDOT 3877 2B each	1.00	435.00	\$435.00
Asphalt Content of Aggregate Base ASTM D6307 each	1.00	170.00	\$170.00
Soil Proctor MD Relationship (Standard) ASTM D698 each	6.00	210.00	\$1,260.00
Soil Sieve Analysis with 200 wash, each	9.00	175.00	\$1,575.00
Trip Charge	58.00	25.00	\$1,450.00
Subtask 1.1.2: Concrete Testing			\$50,930.00
Concrete Testing	132.50	100.00	\$13,250.00
<i>Retaining Wall Foundation</i>	<i>1 Trip @ 2.5 Hr</i>	<i>2.50</i>	
<i>Retaining Wall Stem</i>	<i>1 Trip @ 2.5 Hr</i>	<i>2.50</i>	
<i>Sidewalks and Aprons</i>	<i>32 Trips @ 2.5 Hr</i>	<i>80.00</i>	
<i>Curb and Gutter</i>	<i>8 Trips @ 2.5 Hr</i>	<i>20.00</i>	
<i>Light Pole Foundations</i>	<i>10 Trips @ 2.5 Hr</i>	<i>25.00</i>	
<i>Distribution Slab</i>	<i>1 Trip @ 2.5 Hr</i>	<i>2.50</i>	
Concrete Ready Mix Plant Monitoring	84.00	110.00	\$9,240.00
<i>Ready Mix Plant Monitoring</i>	<i>14 Trips @ 6 Hr</i>	<i>84.00</i>	
Concrete Cylinder Pick Up	120.00	100.00	\$12,000.00
<i>Cylinder Pickup</i>	<i>48 Trips @ 1 Hr</i>	<i>48.00</i>	
<i>Lightweight Cellular Concrete Pickup</i>	<i>12 Trips @ 6 Hr</i>	<i>72.00</i>	
Project Manager	14.00	190.00	\$2,660.00
Trip Charge	127.00	25.00	\$3,175.00
Concrete Compressive Strength Cylinders ASTM C39 each	163.00	35.00	\$5,705.00
<i>Retaining Wall Foundation</i>	<i>1 Set @ 5 Qty</i>	<i>5.00</i>	
<i>Retaining Wall Stem</i>	<i>1 Set @ 5 Qty</i>	<i>5.00</i>	
<i>Sidewalks and Aprons</i>	<i>32 Sets @ 3 Qty</i>	<i>96.00</i>	
<i>Curb and Gutter</i>	<i>8 Sets @ 3 Qty</i>	<i>24.00</i>	
<i>Light Pole Foundations</i>	<i>10 Sets @ 3 Qty</i>	<i>30.00</i>	

		Qty/Hours	Rate	Amount
<i>Distribution Slab</i>	<i>1 Set @ 3 Qty</i>	<i>3.00</i>		
Aggregates Sieve Analysis ASTM C136 each		28.00	175.00	\$4,900.00
Subtask 1.1.3: Pavement Testing				\$17,634.00
Asphalt Verification Testing		96.00	110.00	\$10,560.00
<i>Bituminous Plant Monitoring</i>	<i>8 Trips @ 6 Hr</i>	<i>48.00</i>		
<i>Mark and Observe Contractor Coring and Testing</i>	<i>8 Trips @</i>	<i>48.00</i>		
<i>6 Hr</i>				
Trip Charge		16.00	25.00	\$400.00
MnDOT Asphalt Verification, per sample		8.00	760.00	\$6,080.00
Asphalt Thickness and Density of Core ASTM D3549 each		9.00	66.00	\$594.00
Subtask 1.2: Project Management				\$17,390.00
Project Manager		60.00	190.00	\$11,400.00
Senior Project Manager		5.00	240.00	\$1,200.00
Project Assistant IV		30.00	93.00	\$2,790.00
Final Report - Yearly Close-Out Report		1.00	2,000.00	\$2,000.00
Task 1 Total:				\$108,249.00
Project Total				\$108,249.00