



ALLIANT

May 29, 2025

Ms. Keelee Roggenbuck
Dakota County Transportation Department
14955 Galaxie Avenue
Apple Valley, MN 55124
(sent via email)

**RE: CSAH 43 (Lexington Avenue) - Eagan
Request for Additional Services**

Dear Ms. Roggenbuck,

Alliant Engineering, Inc. appreciates the opportunity to provide you with the following Proposal for Professional Services. Our original Scope of Services included public engagement, traffic and multimodal analysis and reporting, and preliminary and final design for mill and overlay, signal, and ADA improvements along Lexington Avenue. Amendment #1 was issued to include additional analysis and design to address preliminary feedback gathered during the initial round of public engagement. Feedback included concerns regarding operations and safety at the Northview Park Road intersection and concerns about multimodal crossing safety along the corridor.

A second contract amendment is requested for additional services related to a change in lane configuration for the Lexington Avenue/Diffley Road intersection and final design of several enhanced multimodal crossings. The intersection configuration change was initiated by Dakota County Transportation Department staff. Alliant Engineering was initially directed by County staff to provide two through lanes for northbound and southbound traffic with dedicated right and left turn lanes at the intersection. After 60% plans had been designed, County staff directed the design team to provide additional evaluation and ultimately revise the design to provide a single through lane in the northbound and southbound directions with dedicated right and left turn lanes. The change resulted in additional traffic analysis and reporting, concept development, and revisions to roadway and traffic signal design.

Amendment #1 authorized evaluation of multiple locations along the corridor to determine the feasibility of providing enhanced multimodal crossings. The scope of Amendment #1 included design up to a 10% level to facilitate decisions on whether to proceed with implementing improvements. A task is included in this amendment request to cover final design services for two locations where enhanced crossings are being added. The locations are at the Goat Hill Park entrance and at the Lexington/Diffley Park entrance/Patrick Road intersections with Lexington Avenue.

Specific additional tasks are defined below:

Task 1.0 Project Management

Task 1.7 Additional Meetings and Coordination

Additional management, coordination, and meetings were required to address the other scope items described herein.

Deliverables:

Deliverables described below (8 hours)

Service Fee \$1,880.00

Task 2.0 Public Engagement

Task 2.3 Updated Project Layout for Public Viewing

The project layout was updated with the intersection revisions and presented at public Open House 2 and Open House 3.

Deliverables:

Updated colored project layout (5 hours)

Service Fee \$600.00

Task 4.0 – Traffic Analysis

Task 4.5 Intersection Traffic Analysis

- Review data and results from previous traffic study.
- Compare recent turning movement counts to counts performed during the previous study.
- Review previous models and signal timing.
- Perform capacity analyses. Update Synchro model for new lane configuration and run models with 2024 volumes (opening year) and 2044 (future design year).
- Summarize results including Measures of Effectiveness in tabular format for discussion with County staff.
- Coordinate with County and City staff to discuss approach, methodology, analyses, and results.

Deliverables:

Updated Synchro models, tabulation of results, analysis summary (21 hours)

Service Fee \$3,655.00

Task 8.0 Preliminary & Final Design

Task 8.5 Preliminary Design – Lexington Avenue and Diffley Road Intersection

Alliant prepared design concepts for lane configurations with a single northbound and southbound through lane in each direction. Design concepts for various pavement marking and alignment scenarios

were developed and reviewed with County staff. Design included analysis of turning vehicles using Autoturn and review of pedestrian curb ramp and median geometry. Interim 60% plan sheets were developed to depict the modified concept. Additional meetings and coordination were required to review and vet concepts.

Deliverables:

Intersection layout concepts and preliminary plans (39 hours)

Service Fee \$4,980.00

Task 8.6 Final Design – Lexington Avenue and Diffley Road Intersection

Design plans for roadway, traffic signal, signing and striping, and miscellaneous details were modified to accommodate the revised geometric design. Quantities were recalculated for bidding purposes.

Deliverables:

Revised construction plans and engineer's estimate (88 hours)

Service Fee \$10,555.00

Task 8.7 Modify Signal Justification Report

The Signal Justification Report (SJR) for the Lexington Avenue and Diffley Road intersection was revised to accommodate the intersection geometric changes. The previous version of the SJR was already approved by MnDOT. Revisions were made based on agency reviews and Alliant coordinated obtaining MnDOT approval and signatures.

Deliverables:

Draft and Final Revised Signal Justification Report (8 hours)

Service Fee \$1,170.00

Task 8.8 Final Design – Enhanced Multimodal Crossings

The original project scope included design of ADA deficient pedestrian ramps along the corridor without relocating curb lines. Based on public feedback and evaluation performed under Amendment #1, enhanced multimodal crossings of Lexington Avenue were added at the north leg of the Goat Hill Park driveway entrance and at the Lexington/Diffley Park entrance/Patrick Road intersection. New pedestrian ramps and a refuge island were added at the Goat Hill Park entrance. Curb extensions, drainage improvements, a rectangular rapid flashing beacon (RRFB) system, signing and pavement markings were designed at the Lexington Diffley Park entrance/Patrick Road intersection. Amendment #1 included evaluation of crossings and design to a 10% level. This amendment request includes final design for the crossings at Goat Hill Park entrance and Lexington/Diffley Park entrance/Patrick Road intersections.

Deliverables:

Final Design Plans (129 hours)

Service Fee \$15,355.00

Total Service Fee Not to Exceed = \$38,195.00

We ask that you consider this proposal for additional services. Please call me at 612-767-9347 should you have any questions or comments regarding the contents of our proposal or associated service fees.

Sincerely,

Alliant Engineering, Inc.

A handwritten signature in blue ink, appearing to read "Steve Weser", with a long horizontal flourish extending to the right.

Steve Weser
Principal

cc: File