



Staff Report

July 3, 2023 Council Workshop Meeting

NW Lake and Sierra Intersection Improvements Professional Services Agreement

Presenter: James Carothers, Engineering Manager

Time Estimate: Five minutes

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BACKGROUND: The NW Lake Road and NW Sierra Street intersection is a three-legged intersection that is currently stop controlled on Sierra Street. This intersection serves as a critical link between the southern lake shore and upper Prune Hill area of the City. Current traffic volumes entering the intersection are approaching twelve thousand vehicles per day. This intersection has been listed in the City's Six Year Transportation Improvement Program as a priority project since 2019 for intersection improvements and safety enhancements.

In April staff released a Request for Qualifications (RFQ) for professional engineering services for preliminary engineering and to prepare the Plans, Specifications, and Engineering Estimate (PS&E) package for intersection improvements. The City received a total of three RFQ proposals. Staff has selected Mackay Sposito based on overall qualifications.

SUMMARY: Design for this project will be completed in two phases:

Phase 1- Preliminary engineering and alternatives analysis of a signalized intersection versus a roundabout. Staff has negotiated with Mackay Sposito this proposal amounting to \$94,345.55 for Phase 1 only. Scope of work includes analyzing a signalized intersection and roundabout design utilizing 2045 design year traffic modeling, topographic survey, traffic study, development of conceptual design for each alternative, preliminary cost estimates for construction of alternatives, and preparation of an alternatives analysis memorandum to assist in selecting the preferred intersection improvement.

Phase 2- Public outreach, selection of preferred alternative, potential right-of-way acquisition, and PS&E development for public bidding. The scope and budget for Phase 2 will be negotiated upon completion of Phase 1.



BENEFITS TO THE COMMUNITY: The aim of this project is to reduce NW Sierra Street delays and increase safety.

POTENTIAL CHALLENGES: The greatest challenge is the lack of available area to install improvements. The slope is steep to the north of Lake Road.

BUDGET IMPACT: The Phase 1 design cost is \$94,345.55. The 2023 budget includes \$100,000 in Transportation Impact Fees for this project. The biennial budget includes \$500,000 in 2024. Staff will report on an updated cost for Phase 2 design and preliminary construction estimate after the alternatives analysis is completed.

RECOMMENDATION: Staff recommends this item be placed on the July 17, 2023 Council consent agenda for Council's consideration.