



Council Agenda Report

From: David LaCaro, Public Works Operations Manager

Subject: Approval of Contract with Bear Electrical Solutions to Upgrade Niblick Road Traffic Signals

CEQA Determination: The City finds that this action is not a project under the California Environmental Quality Act pursuant to State Guidelines Section State CEQA Guidelines, §§ 15060, subd. (c)(2)-(3), 15378.

Date: March 7, 2023

Facts

1. On December 4, 2020, the City was awarded a grant by Caltrans to develop a [Local Roadway Safety Plan](#) (LRSP). The purpose of the LRSP is to establish a framework and process for identifying, analyzing, and prioritizing roadway safety improvements on the City's streets. The Safety Plan identifies the top systemic collision patterns and top collision locations throughout the City and provides the City with a toolbox of countermeasures to address the systemic collision patterns, especially those in high collision locations. After significant public input, City Council adopted the LRSP on May 18, 2021.
2. A component of the City's LRSP includes the Niblick Road Signal Synchronization Project. This project improves traffic flow and reduces congestion by installing traffic signals which automatically change timing in response to different travel volumes and patterns at different times of day.
3. The City solicited a quote from Bear Electrical Solutions (BES) and received a quote for \$220,000 for services. The scope of work is described in further detail below.
4. "Implement 2021 Local Roadway Safety Program recommendations" is one of the City Council's adopted goals for Fiscal Years 2022-2024. These signal upgrades directly accomplish that goal and strategic priority.

Options

1. Take no action;
2. Authorize the City Manager to enter into a maintenance service contract with Bear Electrical Solutions (BES) to implement Niblick corridor signal upgrades in an amount not to exceed \$220,000; or
3. Provide alternate direction to staff.

Analysis and Conclusions

Between 2015 and 2019 that City experiences 1,974 total traffic collisions citywide. The City's highest incident collisions occurred along Niblick Road, Springs Street, Creston Road, River Road, as well as the intersection at Niblick Road and River Road. According to the LRSP, the table below identifies intersections that experience the highest rate of collisions.

Intersection	Control	Number of Collisions (5-year)
Niblick Road @ River Road*	Signal	50
Spring Street @ Niblick Road*	Signal	46
Spring Street @ 24 th Street	Signal	38
Creston Road @ River Road	Signal	31
Niblick Road @ Creston Road*	Signal	30

Riverside Avenue @ 13 th Street	Signal	23
24 th Street @ Riverside Avenue	Signal	22
Spring Street @ 6 th Street	Signal	20
Creston Road @ Golden Hill Road	Signal	19
Niblick Road @ Rambouillet Road*	Signal	17

* - Intersections under considerations

The Niblick Road Corridor project includes upgrades to eight different intersections along the Niblick Road corridor at: Spring Street, Nicklaus Street, Rambouillet Road, Creston Road, Woodland Plaza, River Road, Bearcat Lane, and Country Club Lane. Specifically, each of these intersections will:

- Replace and upgrade signal backplates with retroreflective border;
- Upgrade vehicle LED lights from 8-inches to 12-inches;
- Upgrade the framework hardware for new 12-inch vehicle LED lights;
- Upgrade signal controller to newer 2070 with 2033 software; and
- Upgrade signal conflict monitor units for new controller.

Additionally, the Niblick Corridor Synchronization will allow the City to better collect traffic information, signal timing analysis, and will better position the City to evaluate and fine-tune the intersections in the future.

The City solicited a quote from Bear Electrical Solutions. BES has been the main service provided of City signals since 2012. As such, BES has unique hands-on experience and knowledge with the City's traffic signal timing as well as necessary hardware improvements. They are positioned to perform the upgrades in the most expeditions manner. Therefore, BES was selected to be the sole contractor pursuant to the City's current purchasing policy and procedures. Authorizing the City Manager to enter into a maintenance service contract with BES aligns with the LRSP recommended for improvements in an effort to relieve congestion and improve safety through the Niblick corridor.

Fiscal Impact

The cost to install these improvements to totals \$220,000. The Fiscal Year 2020-21 adopted budget (and subsequently carried forward) includes a \$300,000 allocation for Niblick Road Signal Synchronization Project. As such, no further appropriations are necessary.

Recommendation (Option 2)

Approve Resolution 23-XXX, authorizing the City Manager to enter into a maintenance service contract with Bear Electrical Solutions (BES) to implement Niblick corridor signal upgrades in an amount not to exceed \$220,000.

Attachments

1. Resolution 23-XXX
2. Bear Electrical Solutions Proposal – December 20, 2022