



CITY OF COMMERCE AGENDA REPORT

Item No.: _____

TO: Honorable City Council

FROM: City Administrator

SUBJECT: CITY OF COMMERCE EASTERN AVENUE PAVEMENT REHABILITATION PROJECT AWARD RECOGNITION FOR THE 2017 OUTSTANDING LOCAL STREETS AND ROADS PROJECT AWARDS PROGRAM UNDER THE EFFICIENT AND SUSTAINABLE ROAD MAINTENANCE, CONSTRUCTION AND RECONSTRUCTION PROJECTS CATEGORY

MEETING DATE: April 4, 2017

RECOMMENDATION:

This staff report provides a summary to Council on the recent award recognition that the City of Commerce received. There is no action or recommendation on this item.

BACKGROUND:

The City of Commerce has been awarded the 2017 Outstanding Local Streets and Roads Project Award Program for the Eastern Avenue Pavement Rehabilitation Project under the Efficient and Sustainable Road Maintenance, Construction and Reconstruction Projects Category. This category includes projects that use resources efficiently, projects that employ emerging technologies and materials, progressive preservation programs that improve pavement conditions, projects that are cost-effective and/or creative in the planning, design, funding and/or implementation compared to traditional methods, that are sustainable from a financial and resource perspective, and/or reduce greenhouse gas emissions and are environmentally friendly.

This award is open to all California cities and counties. The City will formally receive this prestigious and highly recognized award at the Public Works Officer Institute and Expo in San Diego on March 23, 2017. The award is sponsored by the California State Association of Counties (CSAC), the League of California Cities (League), and the County Engineers Association of California (CEAC). The Outstanding Local Streets and Roads Awards Program highlights cities and counties that are employing projects, programs, practices, and innovative technologies and materials to achieve preservation,

safety and sustainability goals for the statewide local street and road system whose exceptional work is worth recognizing and replicating across the state.

ANALYSIS:

About the 2017 Outstanding Local Streets and Roads Project Awards Program

The Outstanding Local Streets and Roads Project Awards Program is a significant award and was developed to recognize and raise awareness of the exceptional achievements made by California's cities and counties to preserve and protect the public's investment in the local street and road system.

Nearly every trip – whether by car, bus, bike or foot – begins and ends on a local street or road. The local system is critical for the safety and mobility of the traveling public, emergency responders, law enforcement, the economy, and multimodal needs such as bicycles and buses. Further, as counties and cities, regional agencies, and the State strive to meet statewide climate change goals, the local system will serve as a critical component to achieving greenhouse gas emissions reductions. At the same time, California's cities and counties are facing significant funding shortfalls just to maintain existing infrastructure – to the tune of \$7.8 billion a year over the next decade.

Forward-thinking cities and counties have made extraordinary efforts to preserve and improve the existing local transportation system through a variety of types of projects and programs. Through these exemplary efforts, cities and counties are reducing drive times and congestion; improving driver, bicycle, and pedestrian safety; and ultimately reducing greenhouse gas emissions. Green technologies are less resource intensive, emit fewer harmful air pollutants, and produce less water pollution. Ultimately, a safe, well-maintained, and environmentally friendly local transportation system significantly saves cities and counties, and taxpayers, money in the long-term.

About Eastern Avenue Pavement Rehabilitation Project

Eastern Avenue is a major corridor in the City of Commerce with heavy vehicular and truck traffic, connecting to the I-5 Freeway. This project was not the traditional pavement rehabilitation design and construction project. It involved extensive coordination with local businesses to ensure the roadway remained open and have the least impact to the community. Additionally, the City had a limited budget and tight timeline for work to be completed before Thanksgiving. Originally, the project cost for rehabilitation was estimated to be \$2.3M. After value engineering and analysis of pavement treatment approaches, the City came up with a solution that would be both environmentally sustainable and cost-effective.

The project utilized reclaimed asphalt concrete pavement, a cost-effective approach to conventional rehabilitation which resulted in 50% cost savings reducing the estimated project cost from \$2.3M to \$1.15M. These savings were able to be used by the City for additional street rehabilitation projects improving the quality of life for its residents.

This project was environmentally responsible since regular asphalt is not biodegradable material, any waste thrown into landfills remain there, additionally non-renewable resources must be used to generate new asphalt. The City chose a material mix that minimized waste by repurposing old asphalt. Apart from the environmental benefits this approach is sustainable and provides excellent bonding qualities. The project increased the overall quality and durability of the roadway and visually enhanced the look.

FHWA supports and promotes the use of recycled highway materials in pavement construction to preserve the natural environment, reduce waste, and provide a cost-effective material for roadways. The project contributed to the quality of life in the community in many aspects. The project utilized approximately 18,000 SY of 18" full depth reclaimed asphalt concrete pavement with 4% concrete. The project also used 18,000 SY of 3" cold central-plant recycled (CCPR) of reclaimed asphalt concrete pavement. During construction, materials and existing conditions were constantly tested to identify the most efficient and cost effective method to use.

The benefits of using this material in this project were

- The project was less expensive than conventional asphalt because most of the material used to produce is in-place and has already been paid for. This approach reduced the construction cost by approximately 50%, from \$2.3M to \$1.15M.
- This project left a smaller carbon footprint reducing greenhouse gases because of the significant reduction in trucks exporting and importing materials, reducing energy usage in the process.

The construction itself was accelerated, despite cold weather and rain, ensuring residents were not impacted during holidays. The project was completed cost effectively, within a tight schedule and with minimal impact to the community. The City will now be using similar approaches for future projects. City of Commerce is honored and delighted to be the recipient of such prestigious award and to have been recognized for undertaking this effort to the benefit of the Commerce community.

ALTERNATIVES:

1. Approve staff recommendation

2. Disapprove staff recommendation
3. Provide further direction to staff

FISCAL IMPACT:

No fiscal impact.

RELATIONSHIP TO STRATEGIC GOALS:

The issue before the Council is applicable to the following Council's strategic goal:
"Improve and maintain infrastructure and beautify our community"

Recommended by: Maryam Babaki, Director of Public Works & Development Services

Reviewed by: Vilko Domic, Finance Director

Approved as to form: Eduardo Olivo, City Attorney

Respectfully submitted by: Matthew Rodriguez, Interim City Administrator