



ONTARIO AVENUE WIDENING AT LINCOLN AVENUE



Julianna Zaleski
Associate Engineer
Public Works Department
City Council October 19, 2022

Preface

- ▷ September 21 – Introduced CIP Project at City Council Meeting
 - Purpose and Need
 - Proposed Scope of Work
 - Budget and Cost
 - Received feedback from Council and Residents

- ▷ October 19 – More detailed presentation at City Council Meeting
 - Existing Safety Issues
 - Proposed Roadway and Walkway Improvements
 - Potential Utility Improvements
 - Conceptual Design
 - Address feedback and concerns received at the Sept 21st Meeting

The Ask

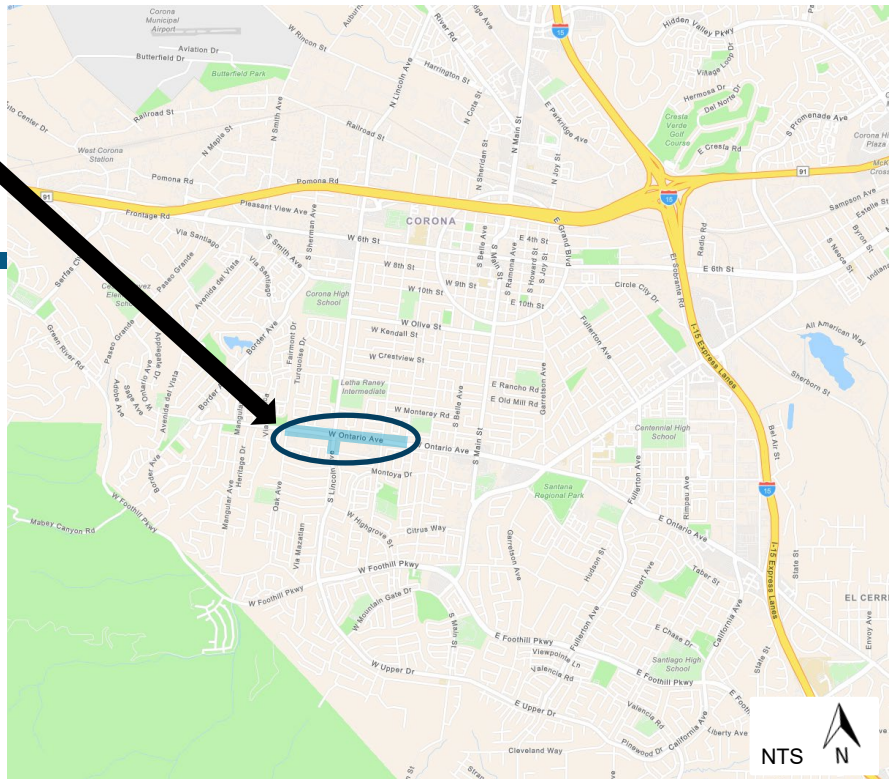


That City Council authorize the creation of the Capital Improvement Project, “Ontario Avenue Widening at Lincoln Avenue”

Project Vicinity and Project Location



Ontario Avenue from Oak Ave to S. Vicentia Ave
&
Lincoln Avenue from Ontario Ave to Othello Ln



Existing Safety Issues

Roadway

- Inconsistent roadway cross section on Ontario Ave.
- Accident history in shared two way left turn lane
- No street lighting on the south side of Ontario Ave.
- Substandard sight distance for Othello Ln. exit movement onto Lincoln Ave.
- Impaired sight distance for northbound traffic on Lincoln Ave. and homeowners on Ontario Ave. due to existing structure on SE corner Ontario/Lincoln
- Lack of bike lanes



Walkways

- Substandard and non-ADA compliant asphalt walkway on south side of Ontario Ave.
- Non existing walkway on the east side of Lincoln Ave. between Othello Ln. and Ontario Ave.
- Non-ADA compliant curb ramp at Ontario/Lincoln



Proposed Roadway and Walkway Improvements

- ▷ Widen Ontario Ave. from 4 to 6 lanes
- ▷ Narrowed lane widths and enhanced striping on Ontario Ave.
- ▷ Construct raised median islands with left turn pockets
- ▷ Construct 5-foot wide ADA compliant sidewalks on Ontario Ave. & Lincoln Ave.
- ▷ Construct ADA ramps at Lincoln/Ontario and Lincoln/Othello
- ▷ Install street lighting on south side of Ontario Ave.
- ▷ Modify traffic signal at southeast corner of Ontario/Lincoln
- ▷ Install new traffic signal at Lincoln/Othello
- ▷ Addition of Class 2 Bike Lane on south side of Ontario Ave.
- ▷ Maintain on-street parking on north side of Ontario Ave.

Potential Utility Improvements

- ▷ Construct sewer laterals from existing sewer main to Right of Way on south side of Ontario Ave. for future connections to City sewer system
- ▷ Extend reclaimed waterline along Ontario Ave. to irrigate landscape on raised median islands
- ▷ Investigate undergrounding of utilities on south side of Ontario Ave. vs. relocation of existing poles

Sewer Lateral Alternatives

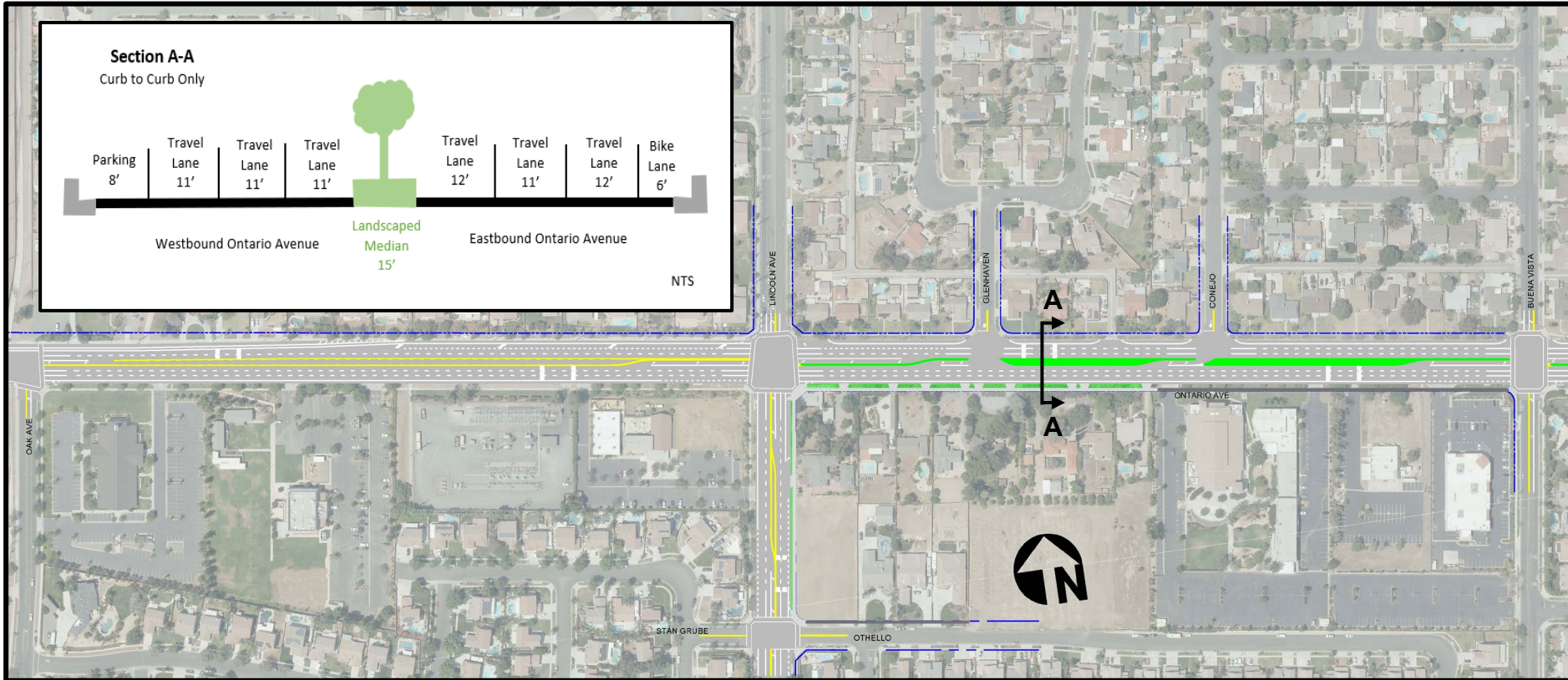
(From sewer mainline within right of way to property line only)

	Option 1	Option 2A	Option 2B	Option 2C
Options	No Construction of Sewer Laterals	Construct Sewer Lateral (paid by city)	Construct Sewer Lateral (paid by city + owner)	Construct Sewer Lateral (paid by owner)
Pros	No additional design and construction required as part of the project	Future sewer connection will not impact roadway	Future sewer connections will not impact roadway	Future sewer connections will not impact roadway
Cons	Public improvements will be impacted in the future	Requires additional design, construction, and cost	Requires additional design, construction and cost	Requires additional design, construction and cost
Cost	Property owner responsible for all future costs. No additional project costs.	City pays for all costs (\$30K/per property)	City pays for labor and owner pays for material (\$15K/\$15K labor/material)	Owner pays for all costs (\$30K/per property)

Existing Sewer Mainline

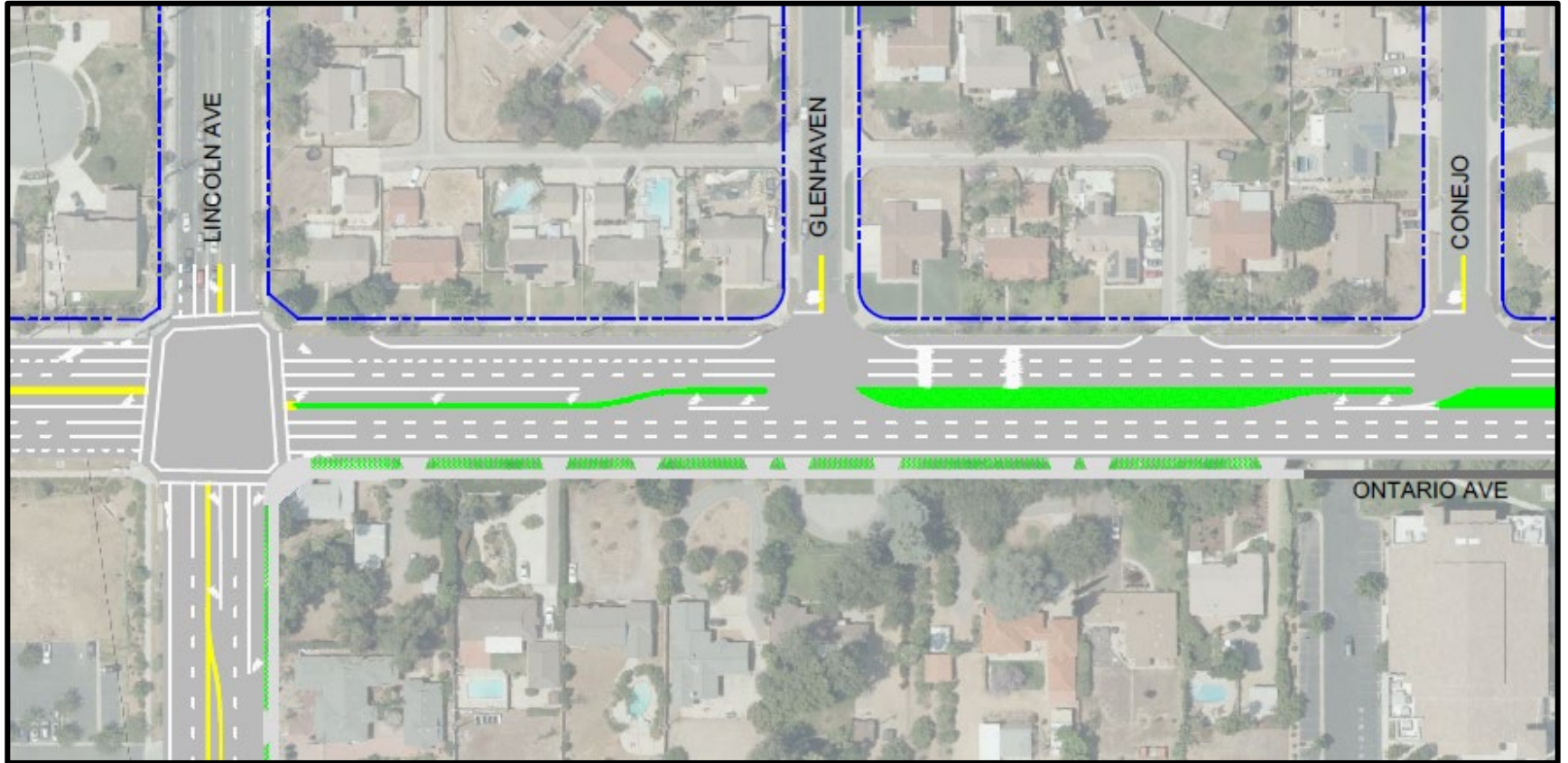


Overall Conceptual Design



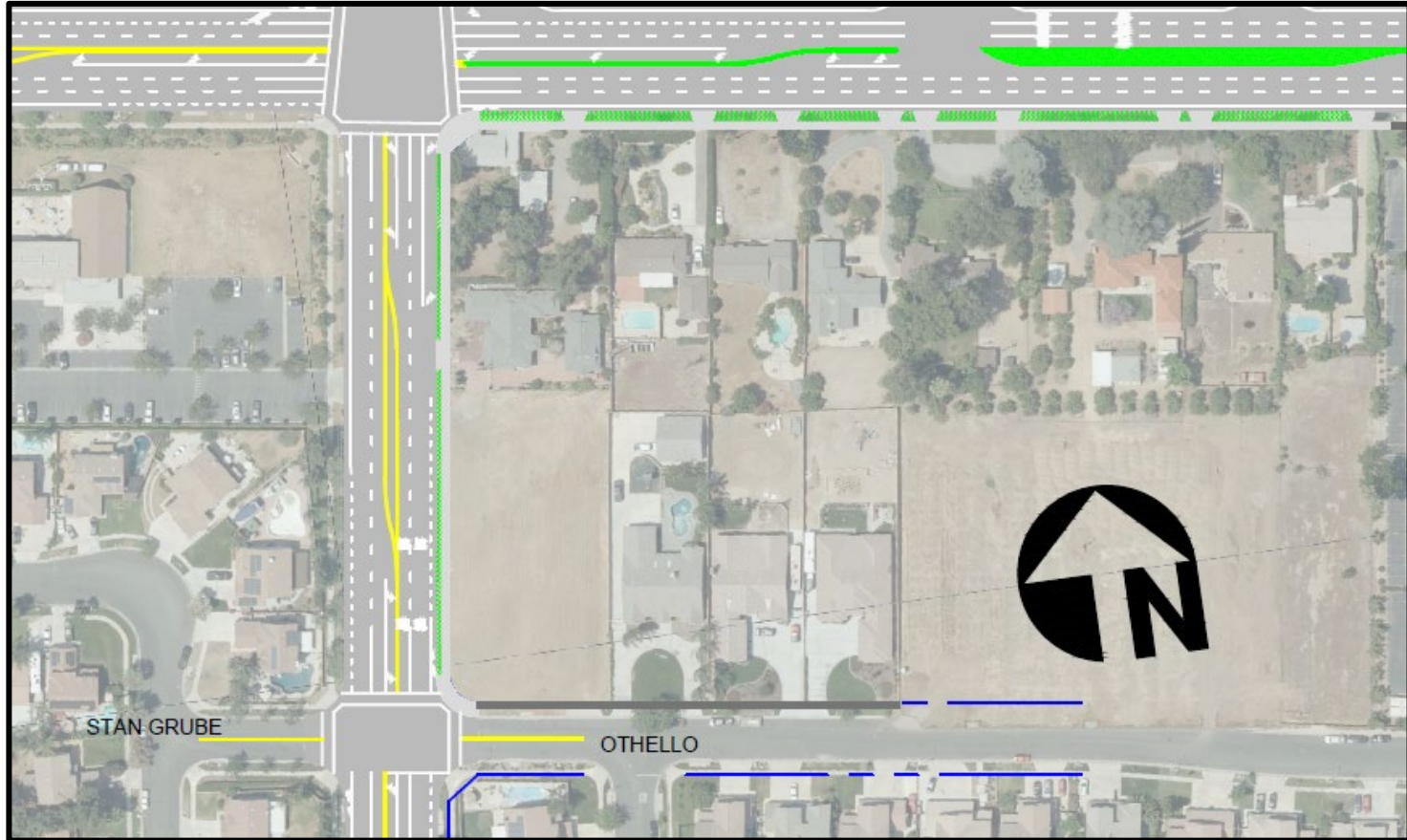
Not to Scale

Focused Conceptual Design – Ontario Ave.



Not to Scale

Focused Conceptual Design – Lincoln Ave.



Resident Concerns

1. Identify effects on property driveways and access
2. Identify effects on property frontages, front yards, mature landscaping
3. Identify potential noise mitigation strategies
4. Identify effects on traffic
5. Concerns about accident history
6. Project funding could be used elsewhere in the City

1. Effects on Property Driveways and Access

- ▷ Raised median islands are proposed for increased safety
 - Access to the properties will be limited to right in - right out

Potential Options to Help Mitigate Effects*

- ▷ Construct gradual slopes to accommodate grade difference
- ▷ Construct modified residential driveways to aid in the right turn movement into and out of the properties

**Requires surveying and engineering to evaluate potential alternatives*

2. Effects on Property Frontages, Yards, Mature Landscaping

Potential Options to Help Mitigate Effects*

- ▷ Construct gradual slopes to accommodate grade difference
- ▷ Construct retaining walls at the right of way to minimize impact to existing landscape on private property
- ▷ Replace impacted landscaping on private properties
- ▷ Construct modified residential driveways to minimize impact on private properties
- ▷ Intend to include residents and Council in the design review process

**Requires surveying and engineering to evaluate potential alternatives*

3. Potential Noise Mitigation Options

- ▷ Provide a 21-foot buffer between the property limit (Right of Way) and vehicular traffic lanes on the south side of Ontario Ave.
 - City standard 5 ft sidewalks
 - Consistent 10 ft parkways (matching adjacent areas)
 - Class 2 Bike lane (6ft wide for 45 mph street)
- ▷ Reduce lane widths to discourage speeding thereby reducing noise
- ▷ Strategically install trees and landscaping on property and in the parkways to provide a natural noise barrier
- ▷ Retain vertical separation between the properties and the street
 - Retaining walls at the right of way or property line
- ▷ Assess the feasibility of rubberized asphalt pavement

4. Effects on Traffic

- ▷ Project aims to increase safety by providing continuity through the corridor
- ▷ Narrowed lane widths discourage speeding
- ▷ Extension of Foothill Parkway and expansion of the SR-91 diverts traffic away from Ontario Avenue as an optimal cut-through route
- ▷ Operational efficiencies can be implemented with the proposed traffic signal modifications
- ▷ Additional traffic data will be collected for ultimate geometric design (turn pocket lengths)
- ▷ Bike lanes to be added on the south side of Ontario Ave. to provide options for alternative modes of transportation and provide an additional buffer to vehicular traffic
- ▷ Existing on-street parking for residents on the north side of Ontario Ave. to remain in place

5. Accident History, Enforcement, and Traffic Safety Enhancements

Traffic Safety Enhancements to reduce accidents and increase safety:



Raised Medians:

- **Crash Reduction Factor (CRF) 25%**
“Raised medians with left-turn lanes at intersections offer a cost-effective means for reducing crashes and improving operations at higher volume intersections. The raised medians also prohibit left turns into and out of driveways that may be located too close to the functional area of the intersection.” – *Caltrans Local Road Safety Manual – Countermeasures NS14 and S12.*
- “Adding raised medians is a particularly effective strategy as it adds to or reallocates the existing cross section to incorporate a buffer between the opposing travel lanes and reinforces the limits of the travel lane. Raised median may also be used to limit unsafe turning movements along a roadway.” – *Caltrans Local Road Safety Manual – Countermeasure R08*



Directional Median Openings:

- **Crash Reduction Factor 50%**
“Agencies are increasingly using access management techniques on urban and suburban arterials to manage the number of conflicts experienced at an intersection. A key element of access management is to restrict certain movements, create directional median openings, or close median openings that are deemed too close to an intersection.” – *Caltrans Local Road Safety Manual – Countermeasure NS15*

Additional Traffic Safety Enhancements

- ▶ Install Bike Lanes:
 - **Crash Reduction Factor (CRF) 35%**

“Most studies present evidence that bicycle lanes provide protection against bicycle/motor vehicle collisions. Bicycle lanes provide marked areas for bicyclist to travel along the roadway and provide for more predictable movements for both bicyclist and motorist. Evidence also shows that riding with the flow of vehicular traffic reduces bicyclists’ chances of collision with a motor vehicle...” – *Caltrans Local Road Safety Manual – Countermeasure R32PB*

- ▶ Install Sidewalk:
 - **Crash Reduction Factor 80%**

“Sidewalks and walkways provide people with space to travel within the public right-of-way that is separated from roadway vehicles. The presence of sidewalks on both sides of the street has been found to be related to significant reductions in the “walking along roadway” pedestrian crash risk compared to locations where no sidewalks or walkways exist. Reductions of 50 to 90 percent of these types of pedestrian crashes...” - *Caltrans Local Road Safety Manual – Countermeasure R34PB*

- ▶ Roadway Lighting
 - **Crash Reduction Factor 35%**

“Providing roadway lighting improves the safety during nighttime conditions by (1) making drivers more aware of the surroundings, which improves drivers' perception-reaction times, (2) enhancing drivers' available sight distances to perceive roadway characteristic in advance of the change, and (3) improving non-motorist's visibility and navigation. ” *Caltrans Local Road Safety Manual – Countermeasure R01*

6. Project Funding and Allocation

- ▷ \$6,000,000 Estimate for Ontario Avenue Widening at Lincoln Avenue Project:
 - \$2,300,000 WRCOG TUMF – Allocated to widen Ontario Avenue from 4 to 6 lanes
 - \$1,200,736 South Corona Landscape Fund
 - \$1,081,865 Measure A – Roadway Improvements
 - \$968,276 Streets and Traffic Signals – Streets and Traffic Signals
 - \$394,133 Drainage Fee – Drainage Improvements
 - \$55,000 General Fund Development Agreement

Funding is specific to an identified location, roadway feature, and for the purpose and need of that project.

Staff's Recommendation



That the City Council authorize the creation of the Capital Improvement Project “Ontario Avenue Widening at Lincoln Avenue” and approve the associated actions to create the project.

Questions?



 951-736-2264

 Julianna.Zaleski@CoronaCA.gov

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