



REGIONAL TRANSPORTATION COMMISSION

Metropolitan Planning • Public Transportation & Operations • Engineering & Construction

Metropolitan Planning Organization of Washoe County, Nevada

February 15, 2019

AGENDA ITEM 3.2

TO: Regional Transportation Commission

FROM: Brian Stewart, P.E.
Engineering Director



Lee G. Gibson, AICP
Executive Director

SUBJECT: RTC Engineering Activity Report

RECOMMENDATION

Acknowledge receipt of the monthly Engineering Activity Report.

CAPACITY/CONGESTION RELIEF PROJECTS

ITS Pilot Project, Design of Phase 2 ITS Connectivity

This pilot project will connect traffic signal systems of the City of Reno, the City of Sparks, Washoe County, and NDOT through fiber optic communication lines. This project also includes design of Phase 2A and 2B, which will expand communication to outlying signal systems and install ITS devices to monitor and remotely adjust traffic signals to respond to special events, changing traffic conditions, provide information to drivers and traffic incidents. Construction of the Pilot Project is complete. The ITS Phase 2A Project began on June 7, 2018, and is now complete. Phase 2B is currently under design with advertisement scheduled for summer 2019.

North Valleys Improvements

Package 3 is currently in final design stages. Package 3 will include installing a traffic signal at the Lemmon Drive/North Virginia Street intersection and adding capacity to the right turn lane at North Virginia Street/Business 395. Construction of this package is planned for spring 2019.

Regional Road Impact Fees (RRIF) funds and Fuel Tax funds have been allocated as part of the 2019 Program of Projects for this project.

Pyramid and McCarran Intersection Improvement

The project is complete. RTC staff and consultants continue to work through final warranty items with the contractor and the City of Sparks. NDOT has provided relief of maintenance to Granite and taken over maintenance responsibilities. RTC is working with NDOT and the City of Sparks to resolve irrigation system issues. Landscape establishment has been extended to July 31, 2019.

Traffic Engineering (TE) Spot 7 Project

The TE Spot 7 project included a new traffic signal at the intersection of Prater Way and Lillard Drive and continues improvements to regional intersections focusing on enhancements to traffic signal operations including replacement of malfunctioning video detection cameras with in-ground loop detectors and battery backup systems to keep traffic signals operating during power outages. The traffic signal at Prater Way and Lillard Drive is complete.

The scope of the TE Spot 7 project also includes:

Remove Pedestrian Scramble

Victorian at 11th & 14th

Battery backup systems

Sparks Blvd. at Springland/O'Callahan

New signal cabinet, detection loops and battery backup system

Prater at Howard (new cabinet and remove split phase)

Prater at Pullman

Prater at Vista

Vista at Whitewood

Virginia at 9th

South Meadows at I-580 southbound off ramp (add cabinet to west intersection)

Mill at Wells (add loops north and south legs)

Replace old video detection system

Pyramid at Golden View

Mt Rose at Wedge

South Meadows at Double R

Longley at Maestro

Longley at Patriot

Virginia at Grove

Install Flashing Yellow Arrow (FYA)

Mill at I-580 SB on- ramp westbound to southbound left turn

Mill at I-580 NB on- ramp westbound to northbound left turn

The TE Spot 7 project construction is ongoing and the scheduled completion is February 2019.

Pyramid/Calle De La Plata

Construction is complete. On October 23, 2018, the traffic signal was turned on. Minor punch list items remain.

Traffic Signal Coordination 5 Project

Following a three year cycle schedule, the project includes review and timing optimization of approximately one-third (1/3) of the signals in the region per year. For 2018, 92 intersections were re-timed. For 2019, nine corridors, roughly 230 intersections will have new timing implemented. Timing plans are developed in coordination with RTC/UNR. In the process, re-evaluation of the clearance intervals and pedestrian crossing times are calculated at each intersection to make sure it is up to current standards.

Process for signal retiming

1. Collect traffic & signal data
2. Input timings into model and evaluate existing signal timing & develop new timing.
3. Implement timing in the field
4. Fine-tune timing
5. Conduct before-after studies

Completed Corridors (178 signals as of January 2019)

1. Wells Avenue – (Ryland Street to E. 9th Street)
2. Vista Boulevard – (Eastbound I-80 Off/On Ramps to S. Los Altos Parkway)
3. Sparks Boulevard – (Eastbound I-80 Off/On Ramps to Los Altos Parkway)
4. N. McCarran Boulevard/Clear Acre Lane – (Sutro Street to Sullivan/N. McCarran Boulevard to Scottsdale)
5. Pyramid Highway (Disc Dr. to Lazy 5)
6. Kietzke Ln/Mill Street – (Peckham Lane to Glendale Avenue/Kietzke Lane to Terminal Way)
7. W. McCarran Boulevard/Mae Anne – (Plumb Lane to W. 7th Street/W. McCarran to Sierra Highlands)
8. S. McCarran/Kietzke Lane/Virginia Street
 - a. On McCarran Blvd - Greensboro Drive to Mill Street
 - b. On Virginia St. – Kietzke Ln to S. McCarran Blvd
 - c. On Kietzke Ln. – S. Virginia St. to Sierra Rose Dr.
 - d. On Longley Ln – Peckham Ln to S. McCarran Blvd.
9. Pyramid Way
 - a. I-80 to Sparks Blvd including two intersections of McCarran Boulevard at Rock Boulevard & 4th Street
10. Downtown Reno (45 signals)
11. Keystone Ave (6 Signals) – W. 7th St. to W. 1st St.
12. Damonte Ranch (7 signals) – Zolezzi Ln to Double R Blvd, and Double R Blvd at Double Diamond
13. Rock Blvd (9 signals) – Greg St to Prater Way

Progress as of Mid-January 2019

- Prater Way – Evans Ave to 15th St – New timing under implementation/TSP.
- North Downtown Reno/UNR (8 Signals) – New timing under testing/implementation.
- Sun Valley Blvd (6 Signals) – New timing under development.

Traffic Engineering (TE) Spot 8 – Package 1 Project

Currently under design with 50% plan now under review by RTC and the local entities.

The scope of this project includes:

Flashing Yellow Arrow – East/West

Keystone Avenue at 7th Street
East Lincoln Way at Marina Gateway Drive
Mill Street at Kirman Avenue

Flashing Yellow Arrow – North/South

McCarran Boulevard at Neil Road

Battery Back-Up Systems

Mae Anne Avenue at Coit Plaza
Oddie Boulevard at I-80 Ramps (both sides)
Wells Avenue at I-80 Ramps (both sides)
Wells Avenue at 6th Street

Traffic Signal

Evans Avenue at Enterprise Road

Traffic Engineering (TE) Spot 8 – Package 2 Project

The Professional Services Agreement was awarded to Stantec Consulting Services Inc. on October 1, 2018. The project includes a new traffic signal at the intersection of Red Rock Road and Silver Lake Road and capacity improvements at the North McCarran Boulevard and U.S. 395 Interchange. Sixty percent (60%) design was completed in November. Final design is underway and construction is anticipated late summer.

CORRIDOR IMPROVEMENT PROJECTS

4th Street/Prater Way Bus Rapid Transit (BRT) Project (Evans Avenue to Pyramid Way)

Construction is substantially complete. The LED street lights have been installed. The traffic signal interconnect in Sparks is complete. The RTC is working on the signal timing after which will start working on the Traffic Signal Prioritization (TSP) for the buses.

Virginia Street RAPID Extension

A detailed monthly progress report will be given on this project for January. Additional information can be viewed at: <http://virginiastreetproject.com/>

Truckee River Shared Use Path Project

The proposed pathway will start at John Champion Memorial Park and continue along the south side of the Truckee River. The existing pathway in this segment of the river currently crosses to the north side of the river at the park as it continues eastward. The proposed pathway will be about

2,400 lineal feet in length, continuing below Interstate 580 (I-580) to meet up with the existing pathway located near the Walmart east of I-580. This project was included in the fiscal year (FY) 2017 Program of Projects. The design portion of this project is funded through federal funds and includes oversight by NDOT through a Local Public Agency (LPA) agreement. Work continues on the preliminary design and the environmental documentation that is required.

Pyramid Highway and US 395 Connection

Signature of the ROD by FHWA was received on December 7, 2018. In accordance with the EIS and the RTC's RTP, the project is anticipated to be designed and constructed in phases over approximately a 20-year period. The current estimated cost of the overall project is \$800 million and will relieve congestion on the Pyramid Highway, McCarran Boulevard and other regional roads and provide connectivity between the North Valleys, Sun Valley and Spanish Springs.

Oddie Boulevard/Wells Avenue Improvement Project (60% Design Phase)

Preliminary design work is underway with a 30% Design will be finalized at the end of this month and 60% by September 2019. A bi-monthly coordination meeting with staff from Cities of Reno and Sparks was held on February 5, 2019. A second Public Meeting is underway.

Sun Valley Boulevard Corridor Improvement Project (NEPA and Preliminary Design Phase)

Preliminary design work is underway with a 30% Design scheduled at the end of May 2019 and 60% Design by mid-December 2019. A Public Meeting will be scheduled in the next few weeks.

BICYCLE AND PEDESTRIAN IMPROVMENTS (2018)

Keystone Avenue at California Avenue

The final design builds upon Alternative F as identified in the Keystone Avenue Corridor Study. Anticipated improvements include the re-alignment of the Keystone and California intersection, lane reconfigurations, pavement section reconstruction, sidewalk, curb and gutter, new PROWAG compliant pedestrian sidewalks and ramps and other incidentals necessary for the final design of this facility. Wood Rogers has developed 100% design plans, which are under review by City of Reno staff. The project is scheduled to be bid in February and Wood Rodgers has been retained for Engineering during Construction (EDC) services.

Mill Street (I-580 to McCarran Boulevard)

This project is to design various complete street improvements along Mill Street from I-580 to McCarran Boulevard, as identified in the RTC Complete Streets Masterplan completed in July 2016 and the Mill Terminal corridor study completed in March 2013. Although this roadway segment has had some existing complete street treatments, more improvements have been identified to conform to the RTC masterplan. The emphasis of this project is to assess and identify improvements for pedestrians, bicyclists, and transit riders as well as motorists. Deficiencies in pedestrian access related to Charter Schools and AACT High School in the area as well as a number of ADA deficient bus stops have been identified. Preliminary design continues with 50% plans under review.

PAVEMENT PRESERVATION PROJECTS

2018 Preventive Maintenance (Various Locations)

The 2018 Preventive Maintenance Program has been suspended for the season and work will resume in the spring.

2019 Preventive Maintenance (Various Locations)

Candidates for the 2019 Preventive Maintenance Program are under evaluation and the project will go out to bid in March for a construction start in May.

Clean Water Way

The limits of this project are from East McCarran Boulevard to second gated entrance to the Truckee Meadows Water Reclamation Facility. The Professional Services Agreement was awarded to Eastern Sierra Engineering, P.C. on April 12, 2018. The project includes reconstruction of the existing roadway, correction of any localized drainage deficiencies, and other features necessary for the rehabilitation of Clean Water Way. The project recently advertised for bids and the apparent lowest responsible and responsive bidder was Sierra Nevada Construction Inc. (SNC). Work will begin as soon as the environmental conditions are favorable enough to install the improvements.

Reno Consolidated 19-01- Sutro Street, 1st Street, Lake Street, and State Street Project

The Professional Services Agreement was awarded to CA Group, Inc. on October 1, 2018. Fifty (50%) design plans were submitted for agency review on December 26, 2018. The project includes rehabilitation/reconstruction of the following street segments: Sutro Street from Commercial Row to 4th Street and from McCarran Boulevard to 1,400' north, 1st Street from Center to Lake, Lake Street Truckee River Bridge, and State Street from Virginia to Sinclair Street.

Reno Consolidated 19-02 – North Hills Boulevard and Hunter Lake Drive Project

The Professional Services Agreement was awarded to Wood Rodgers, Inc. on October 1, 2018. The project includes rehabilitation/reconstruction of the following street segments: North Hills Boulevard from Golden Valley Road to Lemmon Drive (including Buck Drive intersection) and the intersection of Hunter Lake Drive at Foster Drive. Fifty (50%) plans were submitted to City of Reno on January 30, 2019.

Reno Consolidated 19-03 – Sierra Highlands Drive, Colbert Drive, Hammill Lane, Ralston Street, and Ohm Place Project

The Professional Services Agreement was awarded to Eastern Sierra Engineering, P.C. on November 1, 2018. The project includes rehabilitation/reconstruction of the following street segments: Sierra Highlands Drive from the NDOT right-of-way on McCarran Boulevard to Idlebury Way; Colbert Drive from Longley Lane to 300 feet northwest of Longley Lane; Hammill Lane from Kietzke Lane to the eastern terminus; Ralston Street from University Terrace to Eleventh Street; and Ohm Place from Mill Street to 500 feet south.

Sparks Consolidated 19-01 – 15th Street, Franklin Way, Hulda Court, and El Rancho Sidewalk Project

The Professional Services Agreement was awarded to CFA, Inc. on October 1, 2018. Fifty (50%) design plans were submitted for agency review on January 4, 2019. The project includes rehabilitation/reconstruction of the following street segments: 15th Street from C Street to Prater Way, Franklin Way from the Rail Road crossing to East Greg Street, Hulda Court, and sidewalk improvements on El Rancho Drive from G Street to Oddie Boulevard.

REPORT ON NEGOTIATED SETTLEMENT AGREEMENTS FOR THE ACQUISITION OF PROPERTY

Project	Property Owner	Purchase Amount	Amount Over Appraisal
Virginia Street BRT Extension	Fred & Marilyn Bonenfant Family Trust	\$5,799.00	\$0
Virginia Street BRT Extension	Hong Marital Trust	\$6,235.00	\$0
Virginia Street BRT Extension	LEEBDS, LLC	\$3,619.00	\$0
Virginia Street BRT Extension	Bunthang Chheth & Huong Chuong	\$11,628.00	\$0
Virginia Street BRT Extension	Rollins Family Trust et al	\$16,288.00	\$0
Virginia Street BRT Extension	Eugene Fong, et al	\$4,220.00	\$0
Virginia Street BRT Extension	Jones Revocable Trust	\$2,000.00	\$0
Virginia Street BRT Extension	AutoZone, Inc.	\$20,982.00	\$0
Virginia Street BRT Extension	ESRNEV3, LLC	\$13,575.00	\$0
Virginia Street BRT Extension	Powar Amolak, Surjit Family Living Trust	\$8,455.00	\$0
Virginia Street BRT Extension	652 Forest Street, LLC	\$2,000.00	\$0
Virginia Street BRT Extension	Pick Rentals, LLC	\$2,559.00	\$0
Virginia Street BRT Extension	Sharann Partnership	\$23,660.00	\$0
Virginia Street BRT Extension	Victorian Partners, LLC	\$6,489.00	\$0
Virginia Street BRT Extension	1091 S. Virginia Street, LLC	\$1,000.00	\$0

CONTRACTS UNDER \$50,000

There were no contracts awarded under the amount of \$50,000.

ENGINEERING ON-CALL WORK ASSIGNMENTS

Attachment A summarizes the work assignments on the engineering pre-qualified on-call lists. Engineering Department consultant assignments will be reported upon Board approval of the professional services agreement with each firm.

ADVISORY COMMITTEE(S) RECOMMENDATION

There are no advisory committee recommendations pertaining to this agenda item.

Attachment

On Call Consultant Summary

Engineering, Construction Management & Quality Assurance			
BOARD APPROVAL DATE	FIRM	PROJECT NAME	AMOUNT
No work has been assigned this period			

Independent Cost Estimating (ICE)			
BOARD APPROVAL DATE	FIRM	PROJECT NAME	AMOUNT
No work has been assigned this period			

Traffic Engineering			
BOARD APPROVAL DATE	FIRM	PROJECT NAME	AMOUNT
No work has been assigned this period			

Engineering Services - Categories
List is valid through June 30, 2019

Engineering, Construction Management & Quality Assurance	Independent Cost Estimating (ICE)
Atkins North America, Inc. CA Group, Inc. CFA, Inc. CH2M Hill, Inc. Eastern Sierra Engineering HDR Engineering, Inc. Jacobs Engineering Group, Inc. Louis Berger Group, Inc. Lumos & Associates, Inc. Nichols Consulting Engineers Parsons Transportation Poggemeyer Design Group, Inc. Stantec Consulting Services Inc. Wood Rodgers, Inc.	CA Group CH2M Hill HDR Engineering, Inc. Stanley Consultants Inc.

Traffic Engineering Services - Categories
List valid through September 28, 2018

Traffic Engineering	I.T.S.	Traffic Surveys & Data
Aecom	Aecom	CA Group
CA Group	Atkins	HDR Engineering, Inc.
Cardno	HDR Engineering, Inc.	Jacobs
CH2M Hill	Iteris	LSC Transportation Consultants, Inc.
HDR Engineering, Inc.	Jacobs	Parsons Brinkerhoff
Iteris	Kimley-Horn & Associates	Solaegui
Jacobs	Parsons Brinkerhoff	STE Sierra Transportation Engineers, Inc.
Kimley-Horn & Associates	Stantec	TRA Traffic Research and Analysis, Inc.
Parsons Brinkerhoff	Traffic Works	Traffic Works
SHG Slater Hanafin Group		
Solaegui Engineers, LTD		
Stantec		
Traffic Works		