



REGIONAL TRANSPORTATION COMMISSION

Metropolitan Planning • Public Transportation & Operations • Engineering & Construction

Metropolitan Planning Organization of Washoe County, Nevada

September 18, 2020

AGENDA ITEM 3.2

TO: Regional Transportation Commission

FROM: Brian Stewart, P.E.
Engineering Director

Bill Thomas, AICP
Executive Director

SUBJECT: RTC Engineering Activity Report

RECOMMENDATION

Acknowledge receipt of the monthly Engineering Activity Report.

BICYCLE AND PEDESTRIAN IMPROVEMENTS

Bus Stop Improvement and Connectivity Program

The program is a multi-year effort to upgrade existing bus stops to comply with state and federal requirements, including the Americans with Disabilities Act (ADA). The first phase of bus stop improvements located within public Right-of-Way (13 bus stops) is complete. The process of obtaining necessary easements for other locations is ongoing. The design consultant, CA Group submitted easement packages for 37 bus stop locations recently and acquisition work continues. Sixty percent (60%) Design was submitted for the final 90 bus stop locations. Another group of bus stop improvements will be advertised for construction later this year.

Center Street Cycle Track Project

Headway Transportation completed the Traffic Analysis of the proposed alternative, which includes a two-way cycle track along Center Street from Cheney to 9th Street. The final report is being prepared along with an amendment to the existing agreement with the consultant to include design services for the project. The amendment will include additional work that is required for Center Street Cycle Track final design to include roadway rehabilitation and sidewalk improvements.

Mill Street (Terminal Way to McCarran Boulevard)

The scope of this project is to design and construct various complete street improvements along Mill Street from Terminal Way 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. 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 will be addressed.

Preliminary design is complete and 90% plan comments have been received from the entities. An amendment to the design contract has been approved that will split the project into two phases and provide for construction management services. Phase 1 will be from Rock Boulevard to McCarran Boulevard and Phase 2 will be on Mill Street from Terminal Way to Rock Boulevard. Right-of-way impacts have been identified and the right-of-way process for Phase 1 is underway with property owner contacts and appraisal activity. The two phases will be constructed consecutively over a 5-year timeframe.

CAPACITY/CONGESTION RELIEF PROJECTS

ITS Pilot Project, Design of Phase 2 ITS Connectivity

The pilot project connected 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 is complete. Phase 2B is currently under construction with a tentative completion in fall 2020.

ITS Phase 3

The project includes conduit and fiber optic cable at the following locations:

- Lake Street from 1st Street to 2nd Street
- Lemmon Drive from N. Virginia Street to US 395
- Rock Boulevard from Greg Street to Prater Way

Also included in ITS Phase 3 is a Road Weather Information Sensors (RWIS) at Sharlands Avenue at Robb Drive. The project will install 20 Gridsmart Performance Packages. These are upgrades to existing Gridsmart detection systems and can detect/count pedestrian and bicycles. Currently, the project is advancing to 90% design phase.

North Valleys Package 3B

Package 3B is currently at 100% design. Package 3B includes adding capacity to the right turn lane at North Virginia Street/Business 395. This project also includes improvements to two bus stop pads located within the project area, and associated access and drainage improvements.

Sparks Boulevard Project

The project seeks to increase safety, maintain roadway capacity, and improve bicycle and pedestrian facilities by widening Sparks Boulevard to six (6) lanes between Greg Street and Baring Boulevard. Professional engineering services are underway with Atkins North America, Inc. to begin environmental studies and preliminary design.

The RTC in cooperation with the City of Sparks, Nevada Department of Transportation (NDOT), and the Federal Highway Administration (FHWA) is initiating an Environmental Assessment (EA) to evaluate and document the proposed Project's potential impacts.

A live, online public information meeting will be held on September 16, 2020, at 5:30 p.m. in order to provide information about the Project and receive comments from about potential environmental impacts. This meeting is being held online due to the concerns and restrictions regarding public gatherings during the COVID-19 pandemic. Upon conclusion of the live meeting, a virtual meeting will be hosted on the Project website – SparksBlvdProject.com – to allow a 30-day comment period of the information being presented and greater opportunities for public involvement.

Traffic Signal Timing 6 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 2020, this begins a new cycle where signals that were re-timed back in 2016, will be re-evaluated and re-timed to address the changes to traffic demand. For 2020, roughly 95 intersections will have revised timing implemented. Timing plans are developed in coordination with RTC/UNR. In the process, re-evaluation of the other settings such as vehicle passage times are calculated at each intersection to make sure it is up to current standards.

Progress as of September 2020:

- N. McCarran Boulevard & Clear Acre Lane (10 Signals) – Sutro Street to Sullivan Lane – New timing implemented
- Vista Boulevard (9 Signals) – Eastbound I-80 to South Los Altos Parkway – New timing implemented
- Sparks Boulevard (12 Signals) – Greg Street to North Los Altos Parkway – New timing under development
- Wells Avenue (9 Signals) – Ryland Avenue to Sadlier Way – New timing under development
- South Virginia Street (11 Signals) – Vassar Street to Peckham Lane – New timing under development

Traffic Engineering (TE) Spot 9 – Package 1 Project

The project includes:

- Traffic signal at the intersection of Sharlands Avenue and Mae Anne Avenue;
- Battery backup systems for signalized intersections on Sun Valley Drive from Scottsdale Road to 7th Street;
- Minor striping improvements to improve traffic flow at Pyramid Way at York Way; and
- Traffic study with potential improvement to southbound right turn lane at the intersection of Vista Boulevard and Baring Boulevard. This component of the project will not move forward due to the cost associated with the improvement not justifying the benefit.

Titan Electrical Contractors was the apparent lower bidder and was awarded the construction contract on July 23, 2020. Construction will begin later this year.

Traffic Engineering (TE) Spot 9 – Package 2 Project

The project includes various traffic updates throughout the Reno/Incline area:

- Traffic signal cabinet and camera upgrades at various intersections in the Reno area;
- New traffic signal at the intersection of Rock Boulevard/Edison Way; and a
- 4th Street/Mesa/Woodland intersection study for future improvements.

Bids were opened on June 18, 2020. Titan Electrical Contractors was the apparent low bidder and was awarded the contract. Project construction is scheduled to begin in late October.

CORRIDOR IMPROVEMENT PROJECTS

Arlington Avenue Bridges

The Arlington Avenue Bridges Project is a feasibility study to analyze possible replacement bridge types and aesthetic themes, document design and environmental criteria, improve safety and multi-modal access in the Wingfield Park area, and review flood-capacity requirements. The crossing of the Truckee River at Arlington Avenue has served the community of Reno and provided access to Wingfield Park for nearly a century. The bridges were built in the 1930's and while structurally safe to drive over they are showing signs of wear resulting from the variety of modifications over the years, their age, and the repeated exposure to flood events.

The team has developed two technical advisory committees (TACs); one specific to permitting and regulatory requirements and one focused on bridge and roadway elements. The Army Corps of Engineers hosted the TAC-1 permitting and regulatory meeting using a virtual format. The meeting was well attended and the Team received great feedback. The TAC-2 members evaluated various bridge alternatives looking at various criteria and comparing those to the project goals. The TAC is recommending three alternatives be looked at in more detail. The feasibility study is on schedule to be completed by the end of 2020.

Kuenzli St. Conversion Project

This project includes the conversion of Kuenzli Street from its current one-way configuration to a two-way street from Giroux Street to Kirman Avenue. The scope of the project consists primarily of surface treatment and restriping to accommodate the conversion of Kuenzli from one-way to two-way traffic from Kirman Avenue to Giroux Street. Associated ADA and traffic signal modifications are included on both Kuenzli Street and Giroux Street.

Bids for this project were opened on August 5, 2020. Sierra Nevada construction was the apparent low bidder and the project will be awarded soon. Construction is scheduled to begin on September 14, 2020, with substantial completion by October 16, 2020.

Oddie Boulevard/Wells Avenue Improvement Project

Final Design is underway and is scheduled to be complete by November 2020. Staff is working closely with the City of Reno, City of Sparks and NV Energy to coordinate the screen wall location. Additional information can be viewed at: <http://oddiewellsproject.com/>.

Pyramid Highway and US 395 Connection

NDOT continues to work on design of Phase 1 of the project that consists of capacity and multimodal improvements on Pyramid from Queen Way to Golden View Drive and design of this phase is anticipated to be complete in 2022. Pending funding, construction of Phase 1 could begin in 2023. The estimated overall Phase 1 cost is \$45 million. With support from NDOT and others, the RTC submitted an application for a BUILD grant for \$25 million from the Federal Highway Administration to help fund Phase 1. Successful applications should be announced by the USDOT sometime in September.

Sun Valley Boulevard Corridor Improvement Project

Construction activities started on June 22, 2020. Construction activities are estimated to take seven months to complete. Traffic control during construction includes lane closures, but two-way traffic will be maintained with flaggers. During the extensive pavement rehabilitation work, tentatively schedule for the end of September, southbound traffic will be detoured and northbound traffic will be open. Additional information can be viewed at: <http://SunValleyBlvd.org>

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.

RTC is working to acquire easements necessary for the pathway. The application for the required United States Army Corp of Engineers (USACE) 408 permit has been approved by Carson Truckee Water Conservancy District contingent on approval by the USACE. The Truckee River Shared Use Path Project has submitted an application to USACE for a Section 408 Permit since portions of the pathway encroach the 14,000 cubic feet per second water surface elevation along the Truckee River.

RTC has been informed that USACE has exhausted remaining available funds for the review 408 permit applications at the end of July 2020 and will not receive additional funds to continue review of applications until start of the next federal fiscal year. RTC has continued to work enter into a funding agreement to ensure the Truckee River Shared Use Path can continue its review. The estimated amount of the funding agreement required is estimated to be \$15,000.

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. The project will be constructed by NDOT through the agreement approved for Spaghetti Bowl Xpress (SBX).

Virginia Street RAPID Extension

A detailed written report is included as a separate Board agenda item for this month. Additional information can be viewed at: <http://virginiastreetproject.com/>

PAVEMENT PRESERVATION PROJECTS

2020 Preventive Maintenance (Various Locations)

The 2020 Preventive Maintenance program is underway. This will provide patching, crack sealing, and slurry seal activities on approximately 200 lane miles of roadway. Bids were opened in April 2020 and the contract has been awarded to Sierra Nevada Construction (SNC). SNC has been performing patching, crack sealing and slurry sealing work since May 2020 and the work is on schedule to be completed later this fall.

Golden Valley Road Rehab Project

The project includes rehabilitation/reconstruction of Golden Valley Road from Yorkshire Drive to North Virginia Street. Lumos & Associates, Inc. is the consultant for Design and Engineering During Construction services. The RTC and Union Pacific Railroad (UPRR) are entering into an agreement for railroad crossing improvements. The scheduled construction start date is spring 2021 with a scheduled completion in summer 2021.

Greg Street Rehab Project

The project includes corrective maintenance of Greg Street from McCarran Boulevard to the Union Pacific Railroad Tracks. Wood Rodgers, Inc. is the consultant for Design and Engineering During Construction. Sierra Nevada Construction was the apparent low bidder. The construction contract was awarded to Sierra Nevada Construction (SNC). Substantial completion of the work will be obtained in September 2020.

Kings Row Rehab Project

The project includes rehabilitation/reconstruction of Kings Row from Keystone Avenue to Wyoming Avenue. Lumos and Associates, Inc. is the consultant for Design and Engineering During Construction Services. The 60% (Intermediate) plans are complete. Identification of easements have been prepared. A written notice went out via USPS to all property owners and/or tenants who are directly located along the project limits to inform them of the project. This project is on track for construction in 2021.

Lakeside Drive Rehab Project

The project includes rehabilitation/reconstruction of Lakeside Drive from Evans Creek Drive to McCarran Boulevard. Eastern Sierra Engineering is the consultant for Design and Engineering During Construction Services. Sierra Nevada Construction is the contractor for the project and was awarded the construction contract in June 2020. Construction began in July 2020 and is to be complete in September 2020 as scheduled.

Newport Lane Rehab Project

The project includes rehabilitation/reconstruction of Newport Lane from Link Lane to McDaniel Street. CA Group is the consultant for Design and Engineering During Construction Services. CA Group has received 50% design comments from the RTC, the City of Reno, and the utility companies. Construction start date is yet to be determined.

Prater Way Rehab Project

The project includes rehabilitation/reconstruction of Prater Way from Howard Drive to Sparks Boulevard. Stantec Consulting Services, Inc. is the consultant for design and engineering during construction. The low bid contract was awarded to Spanish Springs Construction, Inc. (SSC) and work began in April 2020 with a scheduled completion of October 2020. A majority of the underground work has been completed and now road rehabilitation is now under way.

Reno Consolidated 20-01 – Mayberry Drive, California Avenue and First Street

The project includes rehabilitation/reconstruction of the following street segments: Mayberry Drive from Memory Lane to California Avenue, California Avenue from Hunter Lake Drive to Booth Street, and First Street from Sierra Center to Virginia Street. Nichols Consulting Engineers (NCE) is working on incorporating agency/public comments, design and grading of improvements. Utility coordination meetings and property acquisition has commenced. Construction is scheduled to begin summer 2021.

Reno Consolidated 21-01 – Lund Lane, Armstrong Lane and Yuma Lane

The project includes rehabilitation/reconstruction of the following street segments: Lund Lane from Wedekind Road to Northtowne Lane; Armstrong Lane from Susileen Drive to Yuma Lane; and Yuma Lane from Armstrong Lane to Hunter Lake Drive. Eastern Sierra Engineering (ESE) is the consultant for Design and Engineering During Construction Services. The project team is incorporating agency comments, and looking to receive public comments of the proposed improvements in September.

Sky Vista Parkway Widening and Rehabilitation Project

The project includes rehabilitation/widening of Sky Vista Parkway from just east of Vista Knolls Parkway to Silver Lake Road. Atkins Engineering, SNA-Lavalin (Atkins) is the consultant for Design and Engineering During Construction Services. Atkins is in the preliminary design phase with 50% design scheduled for the middle of September 2020. Construction is scheduled for the spring of 2022.

Sparks Consolidated 21-01 – Packer Way and Wild Island Court Project

The project includes rehabilitation/reconstruction of Packer Way from Glendale Avenue to the Cul de Sac and Wild Island Court from Lincoln Way to the Cul de Sac in the City of Sparks. Wood Rodgers Inc. is the consultant for Design and Engineering During Construction Services. Construction is scheduled for summer 2021. Design activities are underway.

OTHER PROJECTS

Park Lane RAPID Station Project

The Park Lane RAPID Station located just south of Plumb Lane on the east side of Virginia Street. Stantec Consulting Services, Inc. is the consultant for architectural and engineering services. The Professional Services Agreement was effective March 18, 2019. Q&D Construction was awarded the contract on May 14, 2020. Construction started July 27, 2020, with site prep and concrete pours. The RAPID Station project is scheduled to be substantially complete by October 2020.

REPORT ON NEGOTIATED SETTLEMENT AGREEMENTS FOR THE ACQUISITION OF PROPERTY

TE Spot 9, Package 1 Silverado Creek, LLC for the total purchase amount of \$1,572.

CONTRACTS UP TO \$50,000

Johnson Perkins Griffin in the not-to-exceed amount of \$11,000 for an appraisal and Carter-Ott Appraisal in the amount of \$3,200 for a review appraisal of the Disposition of Parcels between 8th and 9th Street for the Virginia St. BRT Project.

Johnson Perkins Griffin in the not-to-exceed amount of \$49,500 for the appraisal of 18 parcels associated with the Mill Street Complete Street Project.

Paragon Partners, LTD. in the not-to-exceed amount of \$32,670 for the acquisition of 10 parcels for Phase 1 of the Mill Street Complete Street Project.

ADVISORY COMMITTEE(S) RECOMMENDATION

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