



REGIONAL TRANSPORTATION COMMISSION

Metropolitan Planning • Public Transportation & Operations • Engineering & Construction

Metropolitan Planning Organization of Washoe County, Nevada

MEETING DATE: July 16, 2021

AGENDA ITEM 4.3

From: Brian Stewart, P.E., Director of Engineering

RECOMMENDED ACTION

Acknowledge receipt of the monthly Engineering Activity Report.

BACKGROUND AND DISCUSSION

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. A construction contract for the second phase of the project has been awarded to Spanish Springs Construction, Inc. Construction has begun and will continue through October. The second phase will improve bus stops and connectivity to 29 bus stop locations. Final design and the process of obtaining necessary easements for phases 3 and 4 is ongoing.

Center Street Multimodal Improvements Project

The project consists of constructing a two-way cycle track from Ninth Street to Moran Street in Reno. The majority of the improvements include traffic signal, pavement markings, and signage modifications. Sidewalk improvements in some locations are being incorporated. The project includes design and construction of a dedicated bicycle corridor between the University and downtown/midtown. The 30% design (preliminary design) is complete. Additional traffic analysis of the downtown road network is occurring prior to continuing forward with final design. Pending the results of the additional analysis and further coordination, an Interlocal Cooperative Agreement (ICA) with the City of Reno will be presented to the RTC Board for approval.

Mill Street Complete 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, 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 and continuous ADA accessibility throughout the corridor will be addressed. The project is ready to bid, but an advertising date is to be determined.

CAPACITY/CONGESTION RELIEF PROJECTS

Traffic Management - 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 North Virginia Street to US 395; and
- Rock Boulevard from Greg Street to Prater Way.

Also included in ITS Phase 3 is a Road Weather Information Sensor (RWIS) at Sharlands Avenue at Robb Drive. The weather sensors will detect ice on the road thereby alerting Reno Maintenance Crews that snowplow operations are required in the northwest. The project will install 20 Gridsmart Performance Packages. These are upgrades to existing Gridsmart detection systems and can detect/count pedestrian and bicycles. Titan Electrical Contracting, Inc. was awarded the construction contract on April 23, 2021. Construction is scheduled to begin July 6, 2021.

Traffic Management - ITS Phase 4

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

- Sharlands Avenue from Robb Drive to Mae Anne Avenue;
- Double R Boulevard from South Meadows Parkway to Sandhill Road;
- Geiger Grade from South Virginia Street to Veterans Parkway;
- Prater Way from Pyramid Way to Sparks City Hall traffic center;
- Feasibility studies for Dynamic Message Signs (DMS) and traveler information systems; and
- ITS Master Plan update including a 5-year future ITS project list.

Ninety percent (90%) plans are currently in development and scheduled for submittal July 2021. Kimley-Horn and Associates, Inc., has been awarded the contract for this project.

North Valleys Package 3B

Package 3B includes the addition of 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. The project has advertised for construction bids and is anticipated to start construction in late summer 2021.

Sparks Boulevard Project

The project seeks to increase safety, increase roadway capacity, and improve bicycle and pedestrian facilities by widening Sparks Boulevard to six lanes between Greg Street and Baring Boulevard. Professional engineering services are underway with Atkins North America, Inc., performing 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) has initiated an Environmental Assessment (EA) to evaluate and document the proposed project's potential impacts between the I-80 westbound ramps and Baring Boulevard.

Project phasing includes advancing capacity improvements on Sparks Boulevard between Greg Street and the I-80 westbound ramps as Phase 1 of the project to begin constructed in the second half of 2022. The timing of this project will help alleviate potential regional traffic impacts that could result from constructing the Sparks Boulevard Project simultaneously with construction of Phase 1 of the Pyramid Highway US 395 Connector Project. This phase is in design.

The remainder of the Sparks Boulevard Project, from the I-80 westbound ramps north to the Baring Boulevard intersection (Phase 2), is anticipated to be constructed in the 2024/2025 timeframe and continues to be analyzed as part of the NEPA process. Preliminary design efforts on this are underway to capture impact limits associated with the EA analysis.

A preferred alternative for the corridor can be viewed at: SparksBLVDproject.com.

Traffic Signal Timing 6 Project

Following a three-year cycle schedule, the project includes review and timing optimization of approximately one-third of the signals in the region each year. For 2020, this begins a new cycle where signals that were retimed in 2016 will be reevaluated and retimed to address the changes to traffic demand. For 2020, approximately ninety-five intersections will have revised timing implemented. Timing plans are developed in coordination with the local entities and the University of Nevada, Reno. In the process, re-evaluation of the other settings such as vehicle passage times are calculated at each intersection to make sure they meet current standards.

Progress through June 2021:

- N. Virginia Street BRT Project – Traffic Signal Priority (TSP) signal timing – Completed
- S. McCarran Boulevard (22 Signals) – Mill Street to Cashill Boulevard – New timing under development.
- W. McCarran Boulevard (12 Signals) – W. Plumb Lane to Kings Row – Estimated completion Late August 2021

Traffic Engineering (TE) Spot 10 – Fuel Tax Project

The TE Spot 10 Fuel Tax project will install a new traffic signal at Veterans Parkway and Long Meadow Drive, signal modifications at Victorian Avenue and 16th Street, and eight new Rectangular Rapid Flashing Beacon (RRFB) enhanced pedestrian crossings region-wide. Construction bids for the project opened on June 8, 2021, and the project was awarded to PAR Electrical Contractors, Inc. Construction on the project will begin in July 2021.

Traffic Engineering (TE) Spot 10 - South Project

The project is currently in the 60% design phase and includes:

- A new roundabout at the intersection of 4th Street and Woodland Avenue;
- Geometric improvements at the nearby intersection of 4th Street and Mesa Park Road; and a
- Left turn bay extension for the southbound left turn lane at South Virginia Street and Kietzke Lane.

60% design plans are currently under review at the local entities.

Traffic Engineering (TE) Spot 10 - North Project

The project is currently in the preconstruction stages. The following intersection will be improved with this project:

- Traffic Signal improvements at the intersection of El Rancho Drive/Victorian Avenue.

Construction bids opened on March 5, 2021. The construction contract was awarded to Sierra Nevada Construction, Inc., (SNC). Construction is anticipated to begin in August 2021.

Traffic Engineering (TE) Spot 11 – Package 2 Project

The project is currently in the preliminary design phase and includes:

- A new traffic signal at the intersection of Golden Valley Road and Beckwourth Drive;
- A new traffic signal at the intersection of Mill Street and Telegraph Street; and
- A new traffic signal warrant analysis and potential traffic signal at the intersection of South Meadows Parkway and Wilbur May Parkway.

The traffic signal at Golden Valley Road and Beckwourth Drive is on an accelerated schedule to complete construction prior to September 2022. The other two traffic signals will be constructed in spring 2023.

CORRIDOR IMPROVEMENT PROJECTS

Arlington Avenue Bridges

The Arlington Avenue Bridges Project began with 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. Results from the March 2021 (virtual) final public information meeting have been compiled and are posted on the RTC website. The survey results confirm moving forward with the final recommendation of the single pier bridge type. NDOT, FHWA and the City of Reno have completed review and concur with the final recommendations. The feasibility study is finalized, a Local Public Agency agreement with NDOT has been executed and federal funding for the project has been allocated. The team continues to work on providing materials for federal funding opportunities. A Request for Proposals for consulting services for the NEPA/Design phase of the project will be advertised this summer. Construction of the bridges is anticipated to begin in 2025.

Lemmon Drive Project

The project includes widening Lemmon Drive, from US 395 to Military Road, from four lanes to six lanes and reconstructing the US 395/Lemmon Drive interchange (Segment 1) and improving Lemmon Drive from Fleetwood Drive to Ramsey Way (Segment 2). Construction bids for the Segment 1 and Interchange improvements were opened on April 29, 2021. The project was awarded to the low bidder, Q&D Construction LLC. Construction is anticipated to begin in July 2021.

The project team continues the Level 2 screening process of the top three alternatives for the Segment 2 Phase of the project. The top three alternatives, screened and agreed upon by the Technical Advisory Committee (TAC), were presented to the RTC Board at the August 20, 2020, meeting. The Level 2 screening process includes a qualitative evaluation of the three remaining alternatives. Results of that screening process and recommendations of a preferred alternative are anticipated to be complete later this year.

Oddie Boulevard/Wells Avenue Improvement Project

Granite Construction Company, Inc. has started construction activities of Phase 1: from Pyramid Way to Sullivan Lane in Sparks. Completion of this phase is expected by early next year. Subsequent phases will follow construction that will extend for approximately three construction seasons with completion in early 2024. Additional project information may be viewed at: <http://oddiewellsproject.com/>, including the latest virtual project update with a detailed construction schedule.

Pyramid Highway and US 395 Connection

NDOT continues to work on the design that consists of increased roadway capacity and multimodal improvements on Pyramid Highway from Queen Way to Golden View Drive. Design of this phase is anticipated to be complete in August 2022. The estimated overall Phase 1 cost is \$54.1 million. Working with FHWA, the RTC transferred the \$23 million BUILD Grant that it received from the USDOT to NDOT for construction of Phase 1 which is anticipated to begin in 2023 and take approximately eighteen months to complete.

Sun Valley Boulevard Corridor Improvement Project

Construction activities have been completed. Improvements include added capacity and safety at the 7th Avenue intersection and traffic signal upgrades. The project also includes two illuminated crosswalks with flashers at Quartz Lane and Middle Fork Lane, ADA ramps, sidewalk, and bus stops to serve the extension of RTC RIDE Route 5. Pavement was reconstructed and striped to add bicycle lanes. Additional information may 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. This project was included in the fiscal year (FY) 2017 Program of Projects.

The project to be constructed by NDOT through the agreement approved for Spaghetti Bowl Xpress (SBX) after RTC completes the required property acquisitions and easements. The 408 permit required by United States Army Corp of Engineers (USACE) has been recently approved.

Virginia Street RAPID Extension

Revenue service for the Virginia Street Bus RAPID Transit Extension to UNR commenced on March 6, 2021. Contract close out activities are being finalized. Additional information may be viewed at: <http://virginiastreetproject.com/>.

PAVEMENT PRESERVATION PROJECTS

2021 Preventive Maintenance (Various Locations)

The 2021 Preventive Maintenance project consists of patching, crack sealing and slurry seal activities on approximately 200 lane miles of roadway. Lumos and Associates, Inc., is currently working on the scope for this year's program. Candidate roadways and striping plans have been submitted to the local agencies for review and prioritization. Bids were opened on April 22, 2021, and the project has been awarded to Sierra Nevada Construction, Inc., (SNC). Work is underway with crack sealing and patching activities.

Golden Valley Road Rehab Project

The project includes rehabilitation and reconstruction of Golden Valley Road from Yorkshire Drive to North Virginia Street. The RTC and Union Pacific Railroad (UPRR) have entered into an agreement for railroad crossing improvements. The improvements were complete at the end of May. The construction contract was awarded to the low bidder, West Coast Paving, Inc. Construction on the project will begin in July and be complete in September 2021.

Kings Row Rehab Project – Phase 1

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 low bid contractor is Sierra Nevada Construction, Inc. Construction is underway currently and expected to be complete in this fall.

Kings Row Rehab Project – Phase 2

The project includes rehabilitation/reconstruction of Kings Row from Wyoming Avenue to McCarran Boulevard. Lumos and Associates, Inc., has completed preliminary design and field investigation related work and is commencing with final design for this project. Construction is expected to begin in the spring/summer of 2022.

Newport Lane Rehab Project

The project includes rehabilitation/reconstruction of Newport Lane from Link Lane to McDaniel Street. CA Group, Inc., is the consultant for design and engineering during construction services. The low bid contractor is Sierra Nevada Construction, Inc. Construction is anticipated to begin in August 2021 and take eight weeks to complete.

Peckham Lane Rehab Project

The project includes rehabilitation/reconstruction of Peckham Lane from South Virginia Street to Baker Lane. The project also includes driveway, sidewalk, and curb ramp improvements. Traffic signal improvements at the intersection of Peckham Lane and Baker Lane are planned, in addition to providing fiber optic interconnectivity between South Virginia Street and Baker Lane. Preliminary design is underway. Construction is anticipated to begin late spring/early summer of 2022.

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 is complete and property acquisitions are ongoing. 100% design submittal is scheduled for July 2021. Utility adjustments and relocations by NV Energy on California Avenue are complete. Truckee Meadows Water Authority work will begin later this year. The project will be advertised for construction bids later this year.

Reno Consolidated 22-01 – Sky Valley Drive and Sky Mountain Drive

The project includes rehabilitation/reconstruction of the following street segments: Sky Valley Drive, from Summit Ridge Drive to the Highland Ditch, and Sky Mountain Drive, from the Highland Ditch to Summit Ridge Drive. Eastern Sierra Engineering (ESE) has completed preliminary design and field investigation related work and is commencing with final design for this project. Construction is anticipated to begin spring 2022.

Sky Vista Parkway 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. Final design is scheduled to be completed in fall 2021. The right-of-way process has begun for temporary and permanent easements along with utility coordination efforts. Final design and right-of-way activities will continue for the remainder of the year. Advertisement for bids will follow right-of-way acquisition in March 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. The construction contract was awarded to Granite Construction, Inc. Work on Wild Island Court is complete. Work on Packer Way is substantially complete.

OTHER PROJECTS

Peppermill BRT Station Project

This project includes upgrading the existing Bus Rapid Transit (BRT) station at the northbound Peppermill station to a full size station with level boarding and real time arrival information. A National Environmental Protection Act (NEPA) was previously performed for this project, which received a categorical exclusion from the Federal Transit Administration. This location is one of the busiest bus stops in RTC's inventory. The RTC Board previously approved the solicitation of request for proposals for a consultant to provide design and construction support services. RTC is currently evaluating and negotiating with the highest ranked firm.

4TH STREET STATION Expansion Project

This project includes the expansion of 4th STREET STATION to the south. Preliminary concepts for this expansion include an additional bus lane with electric vehicle charging infrastructure and an area for staff parking. This project is in the preliminary feasibility stages. A request for proposals for a consultant will be underway this summer and into the fall to procure preliminary design and National Environmental Protection Act (NEPA) related services. These services may include final design and construction support services.

REPORT ON NEGOTIATED SETTLEMENT AGREEMENTS FOR THE ACQUISITION OF PROPERTY

Project	Property Owner	Purchase Amount	Amount Over Appraisal
Reno Consolidated 20-01	Cao-Truong Family Trust	\$2,380	\$0
Reno Consolidated 20-01	La Cresta on California	\$5,528	\$0
Reno Consolidated 20-01	Roberto & Soledad Ignacio	\$3,995	\$0

CONTRACTS UP TO \$100,000

Johnson Perkins Griffin, LLC, in the not-to-exceed amount of \$42,000 for the appraisal of 12 parcels associated with the Sky Vista Widening Rehabilitation Project.