



REGIONAL TRANSPORTATION COMMISSION

Metropolitan Planning • Public Transportation & Operations • Engineering & Construction

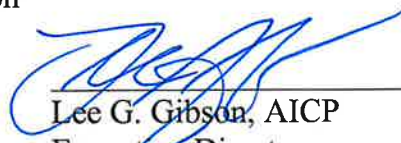
Metropolitan Planning Organization of Washoe County, Nevada

March 15, 2019

AGENDA ITEM 3.13

TO: Regional Transportation Commission

FROM: Amy Cummings, AICP/LEED AP
Director of Planning, Deputy
Executive Director



Lee G. Gibson, AICP
Executive Director

SUBJECT: Approve the procurement for the selection of Engineering Professional Services for the Eagle Canyon Extension Alignment Alternatives and Planning and Environmental Linkages (PEL) Study

RECOMMENDATION

Authorize the procurement for the selection of Engineering Professional Services for the Eagle Canyon Extension Alignment Alternatives and Planning and Environmental Linkages (PEL) Study.

SUMMARY

The purpose of this study is to identify a preferred alignment for the proposed Eagle Canyon Extension roadway, which would provide a connection from Eagle Canyon Road in Spanish Springs to the North Valleys (Lemmon Valley), and to identify needed improvements to the existing Eagle Canyon Road. The study will identify and evaluate potential roadway alignments, roadway and operational improvements, and recommend a preferred alternative. It will develop recommended multimodal transportation improvements relative to adjacent existing and planned land use. The finalized plan will provide the necessary background to advance the project through NEPA and design as well as to serve as a guide for future planning efforts of the agencies within the corridors.

This procurement will begin the process of a qualification-based selection to select a Service Provider to perform Engineering services to develop the Eagle Canyon Extension Alignment Alternatives and PEL Study.

FISCAL IMPACT

Appropriations are included in the FY 2019 Budget and FY 2018 – FY 2019 Unified Planning Work Program (UPWP).

PREVIOUS ACTIONS BY BOARD

November 16, 2018	Approved Amendment 1 to the FY 2018 – FY 2019 Unified Planning Work Program (UPWP)
May 18, 2017	Approved the FY 2018 – FY 2019 Unified Planning Work Program (UPWP)
May 18, 2017	Approved the 2040 Regional Transportation Plan (RTP)
February 16, 2017	Approved the North Valleys Multimodal Transportation Study

ADDITIONAL BACKGROUND

The need for this study arose from the North Valleys Multimodal Transportation Study completed by the RTC in February 2017. Through that process, North Valleys residents expressed a desire for a direct connection between the two areas as both have been experiencing, and are expected to continue to experience, significant growth in housing and employment.

The proposed roadway would help to alleviate traffic currently utilizing US 395/Spaghetti Bowl/Pyramid Highway, and improve regional traffic flow. The construction of the Eagle Canyon Extension is identified in the RTC 2040 Regional Transportation Plan (RTP) within the 2027-2040 timeframe. Concerns regarding traffic operations on Eagle Canyon Road were identified during the 2040 RTP process and will be addressed through this study. This study is expected to identify potential environmental impacts within the corridor study area that would need to be addressed during the National Environmental Policy Act (NEPA) process, engage stakeholders throughout the preliminary planning process, and recommend multimodal transportation improvements for a preferred alignment to be carried forward into design and preliminary engineering.

ADVISORY COMMITTEE(S) RECOMMENDATION

There are no advisory committee recommendations regarding this report.

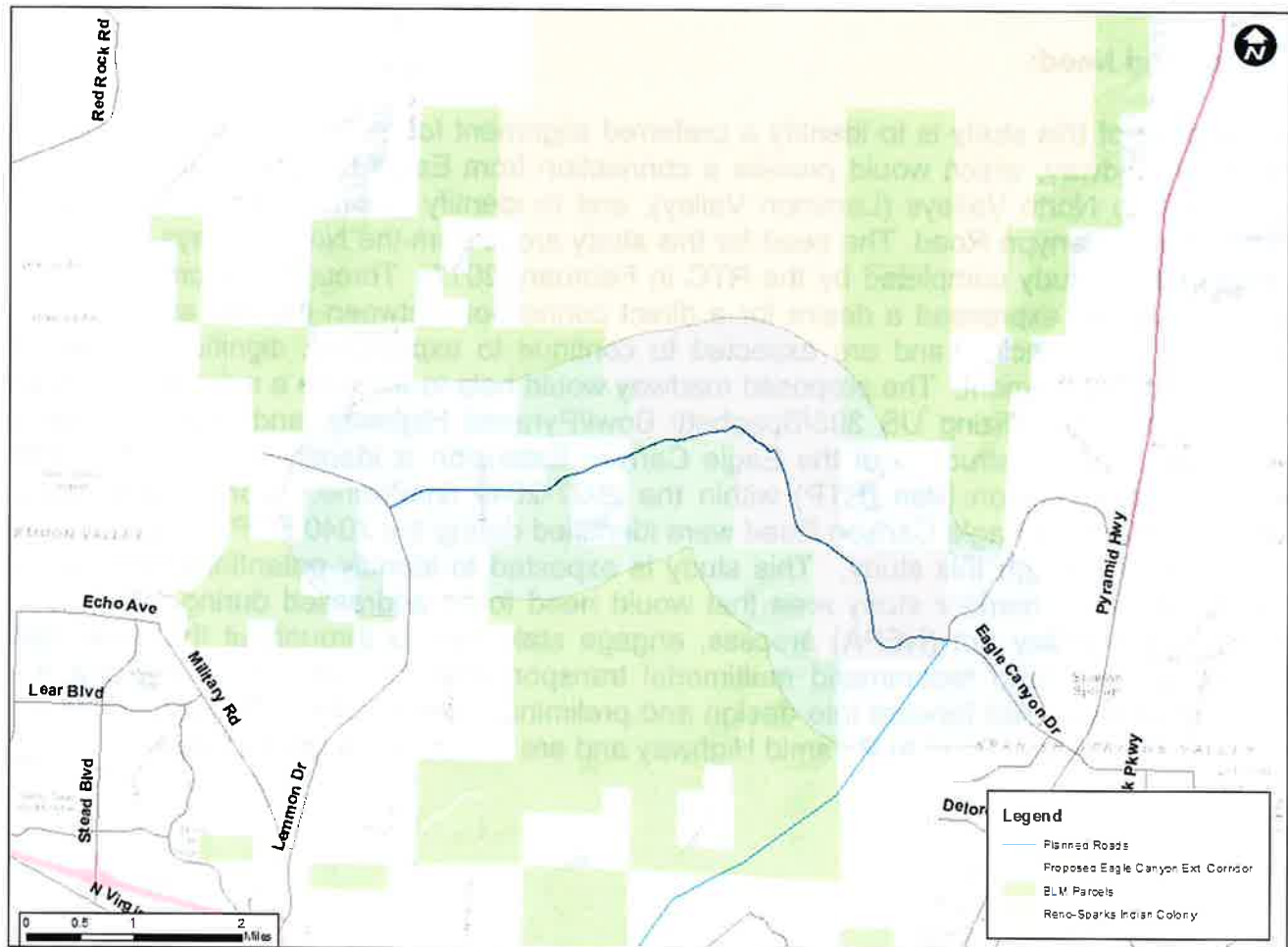
Attachment

Eagle Canyon Extension Alignment Alternatives and Planning and Environmental Linkages (PEL) Study - Scope of Work - DRAFT

Purpose and Need:

The purpose of this study is to identify a preferred alignment for the proposed Eagle Canyon Extension roadway, which would provide a connection from Eagle Canyon Road in Spanish Springs to the North Valleys (Lemmon Valley), and to identify needed improvements to the existing Eagle Canyon Road. The need for this study arose from the North Valleys Multimodal Transportation Study completed by the RTC in February 2017. Through that process, North Valleys residents expressed a desire for a direct connection between the two areas as both have been experiencing, and are expected to continue to experience, significant growth in housing and employment. The proposed roadway would help to alleviate a substantial amount of traffic currently utilizing US 395/Spaghetti Bowl/Pyramid Highway, and improve regional traffic flow. The construction of the Eagle Canyon Extension is identified in the RTC 2040 Regional Transportation Plan (RTP) within the 2027-2040 timeframe. Concerns regarding traffic operations on Eagle Canyon Road were identified during the 2040 RTP process and will be addressed through this study. This study is expected to identify potential environmental impacts within the corridor study area that would need to be addressed during the National Environmental Policy Act (NEPA) process, engage stakeholders throughout the preliminary planning process, and recommend multimodal transportation improvements for a preferred alignment to be carried forward into design and preliminary engineering. The general project limits are from Military Road to Pyramid Highway and are shown in the image below.

Study Area

**Objective:**

The study will identify and evaluate potential roadway alignments, roadway and operational improvements, and recommend a preferred alternative. It will develop recommended multimodal transportation improvements relative to adjacent existing and planned land use. The study will be conducted in coordination with the Nevada Department of Transportation (NDOT), Reno-Sparks Indian Colony (RSIC), Bureau of Land Management (BLM), Truckee Meadows Water Authority (TMWA), Washoe County, City of Reno, City of Sparks, Washoe County School District, and any other applicable stakeholders, including the general public. The finalized plan will provide the necessary background to advance the project through NEPA and design as well as to serve as a guide for future planning efforts of the agencies within the corridors.

Task 1: Project Management

- 1.1 Invoicing and Progress Reports - Prepare the monthly progress reports, invoices, and billing.
- 1.2 Coordination - An initial meeting with RTC will be organized to establish study goals and objectives. Coordination with the RTC project manager and staff will be on-going throughout the project. It is anticipated that the consultant will communicate with the project management team through brief weekly telephone updates and an in-person meeting once per month. Additional coordination meetings will be considered additional work and billed on a time-and-materials basis.
- 1.3 Management Plan - The consultant shall provide a management plan that identifies a team organizational structure and anticipated steps and processes required to complete the study. This will include a project schedule and budget for each task and corresponding deliverables, and progress reports.

Task 2: Existing and Future Conditions Analysis

- 2.1. Existing Studies - Review existing traffic and land use development studies that are relevant to the North Valleys and Spanish Springs areas and incorporate into the analysis. Review recent and planned improvements including proposed utility improvements/expansion in consideration of potential roadway alignments.
- 2.2 Traffic Analysis – Prepare Level of Service (LOS) analyses for the study intersections and roadway segments. Develop existing and 2040 traffic volumes along the corridor and at major intersections using adjusted RTC travel demand model results. Identify potential roadway alignments in the area in coordination with the project team. Conduct a simplified screenline analysis of the study area. Obtain recent peak hour morning and evening turning movement data at key intersections in the corridor during a typical work day when school is in session. Analyze system performance utilizing the data collected. Assess operational issues related to school zones.
- 2.3 Land Use Analysis - Collect information about zoning, current land use, and planned land use/redevelopment, including area schools; school zones, major commercial, industrial and residential developments; and planned utility expansion. Coordinate with the Truckee Meadows Regional Planning Agency (TMRPA) to update information about proposed developments in the area. Coordinate with Washoe County School District and major land use developments that have the potential to significantly impact the travel demand or traffic operations in the study area. Develop a memo to document all land use changes compared with the 2016 consensus forecast which was used in the RTC's travel demand model. Provide a summary that can be used by the RTC to update the travel demand model land use data and reflect the development forecasts. Travel demand modelling will be conducted by the RTC and outputs provided to the consultant. The consultant will adjust raw model results following the RTC's direction.

- 2.4 Safety Analysis – Collect available crash statistics, including bicycle and pedestrian related crashes, to analyze potential safety issues and contributing factors on the study roadway segments.
- 2.5 Transit Analysis – Document existing transit service and ridership trends in the immediate study area. This includes boardings and alightings by stop, hours of service, locations for bus stops, and transit amenities in the study area. Identify potential park and ride locations ideally situated to facilitate existing/anticipated travel patterns. Coordinate with the RTC Public Transportation and Operations Department to analyze future transit service needs.
- 2.6 Pedestrian/Bicycle Analysis – Document the location of existing pedestrian and bicycle facilities and the connectivity of these networks in the study area. This will be based on the current Pedestrian and Bicycle Master Plan and available mapping or GIS layers.
- 2.7 Environmental Analysis – This study will address planning and environmental linkages (PEL). It will document the potential environmental and cultural impacts of proposed improvements, including but not limited to: impacts to the Reno-Sparks Indian Colony and other Environmental Justice (EJ) considerations, schools, endangered/protected species, wetland areas, stormwater/drainage impacts, section 4(f) properties, air quality, noise, visual, and recreational access to federal lands.

Task 3: Public and Agency Involvement

- 3.1 Project Technical Advisory Committee (Project TAC) Meetings – Facilitate up to four project TAC meetings that will be held during the planning study to review study issues and results. Develop a committee list comprised of the agencies identified above in the “Objective.”
- 3.2 Public Information Meetings/Planning Workshops – Facilitate up to five public information meetings in an open-house/workshop format during the project. Conduct outreach to area residents and business/property owners and community groups. Two meetings each will ideally be held in the North Valleys and Spanish Springs. A fifth meeting would occur upon the request of the Reno-Sparks Indian Colony.
- 3.3 RTC Technical Advisory Committee (RTC TAC) and Citizens Multimodal Advisory Committee (CMAC) Meetings – Make two presentations to the RTC TAC and CMAC (four meetings total).

Task 4: Develop and Evaluate Alternatives

- 4.1 Develop a vision statement and associated goals for the study. This multimodal vision statement should incorporate community and stakeholder input and include the integration of transportation, land use, environmental, and community needs. Project area goals should reflect existing and future land use.

4.2 Roadway and Traffic Improvements - Develop and evaluate alternatives including the following:

- *Travel lane configurations and right-of-way determinations*
- *Intersection configurations and potential roundabouts*
- *Existing traffic signal upgrades and operational improvements*
- *Bicycle and pedestrian infrastructure, including lighting*
- *Signage and pavement markings*
- *Traffic calming measures*
- *School zone operational and safety improvements*
- *Potential park and ride lots and transit amenities*

4.3 Environmental Impacts – Develop and evaluate potential environmental impacts associated with the various roadway alignment alternatives and recommended mitigation measures.

Task 5: Report Preparation

- 5.1. Draft Report - Prepare a concise and focused draft report including graphics and illustrations of alternatives. The report will include typical cross-sections, conceptual design level exhibits for roadway and intersection improvements, concept layouts of other improvements, and planning level cost estimates.
- 5.2 Revised Report – Revise the draft report based on comments from the RTC and project TAC. Present revised report to TAC, CMAC and the public.
- 5.3 Final Report – Incorporate comments from TAC and CMAC members and the public and produce the Final Report.

Task 6: Optional Services

- 6.1. Performance of additional data collection, community outreach, and other planning services as directed by the RTC up to the budget indicated in the fee estimate under this task on a time and materials basis.

This task is intended to be flexible and may include other data collection efforts, planning assistance, additional public outreach, design details, and related activities as directed by the RTC.

Deliverables

1. Meeting materials and displays for public, stakeholder, and RTC TAC/CMAC/Board meetings.
2. Provide an electronic copy of draft report to the RTC for review and distribution.
3. Provide five printed copies of the final report and an electronic copy.

Project Milestones:

1. Project coordination meeting with RTC – Month 1
2. Project TAC meeting #1 – Month 2
3. Project TAC meeting #2 – Month 5
4. Public Information/Workshop Meetings #1 & 2 – Month 5
5. Project TAC meeting #3 – Month 6
6. Draft Report – Month 9
7. Project TAC meeting #4 – Month 10
8. Public Information/Workshop Meetings #3 & 4 – Month 10
9. Revised Report – Month 11
10. Final Report – Month 12

Eagle Canyon Extension Alignment Alternatives and Planning and Environmental Linkages (PEL) Study – Evaluation Criteria & Weighting

1. Project Approach: (35 pts)

- a. Teams will be evaluated based on the following:
 - i. Demonstration of Sound Transportation Planning Techniques and Holistic Approach to Planning Study
 - ii. Multi-Modal Nature of Approach and Integration of Other Utilities
 - iii. Innovative Planning & Traffic Engineering Techniques and Strategies
 - iv. Innovative Public Engagement Strategies
 - v. Innovative PEL Strategies

2. Past Performance: (20 pts)

- a. Project teams will be evaluated on their past performance of similar projects or projects which include techniques and analysis that is included in the proposers approach to this project.
- b. List RTC project(s), if any, as well as details of at least three similar projects, other than RTC project(s), including project name, project staff, initial project budget and final budget, project dates, and the name and contact information for a client representative.

3. Project Team: (15 pts)

- a. Teams will be evaluated based on the individual experience, technical capabilities, education, and certifications of each proposed project staff member.
- b. Project Teams must include resumes of all proposed project staff members.
- c. Successful teams will include experts from multiple disciplines (Transportation Planning, Traffic Engineering, Urban Design, Public Engagement, Land Use Planning, Environmental Analysis) with a wide variety of specialties (Roadway and Utility Design, Micro-Simulation, Traffic Modeling, School Zone Safety and Operations, Public Engagement, Social Media Engagement) in order to provide the holistic analysis required for this project. Successful teams will also have experience on projects with diverse stakeholders from multiple government agencies, including tribal governments.
- d. Project teams must submit an organizational chart indicating the Project Manager and all proposed project staff.

4. Local Knowledge & Experience: (15 pts)

- a. Project teams will be evaluated based on their understanding of and experience with past and current transportation planning issues both in the project area and Washoe County as a whole.

5. Capacity and Availability: (15 pts)

- a. Demonstrate the anticipated availability of the key personnel for the duration of the project. Specify if the availability of the key personnel will change during the project. List significant projects and any RTC projects that the key personnel are currently working on or are committed to work on, the percentage of time allocated to each project and the completion date for each project.
- b. Demonstrate the capacity of the project team to meet the needs of the project tasks. Consider the prime consultant's and sub-consultant's depth of staffing and other resources.
- c. Provide a commitment that the proposer will provide key personnel as needed to successfully complete the project.