

Design and Environmental Study For



ARLINGTON AVENUE BRIDGES REPLACEMENT



Design Review Committee Meeting #11 | March 14, 2023

Purpose of Today's DRC Meeting:

- ✓ Utility Updates
- ✓ Environmental Updates / Environmental Commitments
- ✓ 30% Review Comments
- ✓ 65% Submittal - Design Review Focus
- ✓ Schedule



Utilities



Working with utility companies for facilities between bridges and connection to existing (where appropriate)

8-NVE and 4-‘Future’ along East side (main transmission line across north bridge)

12 - Communication Conduits along west side (2 Zayo, 2 Charter, 8 AT&T)

City of Reno facilities w/in Sidewalk West: 1 Dom H₂O, 1 IRR H₂O, 1 Comm; East: 1 Dom H₂O, 1 IRR H₂O

Environmental Update & Commitments



Environmental Update



NEPA Clearance

- ▶ **Section 106:**
 - ▶ NDOT has SHPO concurrence for SB-22-03 and SB-22-04
 - ▶ NDOT consulting on SB-22-05
 - ▶ NDOT will submit consultation docs for project when geotech consultation is complete
- ▶ **Section 4(f):**
 - ▶ Received City of Reno concurrence
- ▶ **Section 7:**
 - ▶ USFWS preparing concurrence letter for geotech drilling and project construction activities in the river

USACE Permits

- ▶ **Geotechnical Work**
 - ▶ Section 408 - expect authorization by July
 - ▶ Section 404/401 - addressing NDOT/RTC comments; expect to submit applications in the next week
- ▶ **Project**
 - ▶ Section 408 - submitted to CTWCD; expect submittal to USACE this week
 - ▶ Section 404/401 - will submit later in design process.

Environmental Commitments

No.	Resource	Impact	Mitigation Commitment	Responsible Party	Timing/Phase that Mitigation will be Implemented	Location of Commitment in Plans/Specs
1	Water Quality	Temporary increases in turbidity and sedimentation during construction	Develop and implement a stormwater pollution prevention plan (SWPPP) with control measures to minimize erosion and sedimentation in accordance with RTC Project Specifications.	RTC Construction Manager	Construction	
2	Water Quality	Potential leaks or spills of gasoline, oil, grease, and other engine materials from construction equipment or vehicles	Develop and implement a spill prevention, control, and containment plan with control measures to minimize potential sources of water pollution in accordance with RTC Project Specifications.	RTC Construction Manager	Construction	
3	Water Quality	Potential leaks or spills of gasoline, oil, grease, and other engine materials from construction equipment or vehicles	Fuel and maintain all equipment at a designated fueling location that is at least 100 feet away from the Truckee River.	RTC Construction Manager	Construction	
4	Water Quality	Potential temporary impacts on Virginia Lake's water quality because of reduced flow from diversions of the Truckee River during construction	Maintain minimum flow of 5.0 cfs to the Virginia Lake Diversion Structure during construction from August 1 to October 1.	RTC Construction Manager	Construction	
5	Floodplains	Alteration of a USACE Civil Works project within the 14,000-cfs inundation limits of the Truckee River	Comply with all requirements of the Section 408 permit.	RTC Project Manager	Preconstruction	
6	Floodplains	Temporary staging or storage of materials in the 100-year floodplain	Any staging or storage of materials in the 100-year designated floodplain during construction will occur in a manner that will not exacerbate flooding during storm events.	RTC Construction Manager	Construction	

Environmental Commitments



7	Federally Listed Species	Direct impacts to cui-uj or LCT from construction activities in the river channel.	Limit in-water work to low-flow season between July 1 and November 30.	RTC Construction Manager	Construction
8	Federally Listed Species	Direct impacts to cui-uj or LCT from construction activities in the river channel.	Maintain river flows and fish passage in either the north or south channel during construction.	RTC Construction Manager	Construction
9	Federally Listed Species	Direct impacts to cui-uj or LCT from geotechnical boring activities in the river channel.	Install a drill casing to prevent the discharge of material into the river during geotechnical boring operations. The casing will be installed from above the bridge deck to at least 10 to 20 feet below the riverbed.	RTC Project Manager	Geotechnical exploration during design
10	Federally Listed Species	Direct and indirect impacts to cui-uj or LCT from construction activities.	Develop and implement a stormwater pollution prevention plan (SWPPP) and an SPCC plan with control measures to minimize erosion, sedimentation, and other potential sources of water pollution in accordance with City of Reno and RTC Standard Specifications.	RTC Project Manager, RTC Construction Manager	Preconstruction, Construction
11	Federally Listed Species	Indirect impacts to cui-uj or LCT from loss of shading from overstory vegetation removal.	The design will minimize impacts to trees along the Truckee River. Trees removed will be replaced at a 1:1 ratio with native species that at maturity will provide equivalent or greater foliar coverage along the river than existing conditions. Plans will show mature canopy of landscape design to demonstrate how this result will be achieved.	RTC Project Manager	Design
12	Federally Listed Species	Indirect impacts to cui-uj or LCT from loss of shading from overstory vegetation removal.	Planted trees shall have a 100 percent success requirement at one year from planting. Any planted tree determined by RTC and the City to be dead or dying after one year shall be replaced.	RTC Construction Manager	Post-construction
13	Hazardous Materials	Project Construction Activities	Train construction personnel to look for possible hazardous materials indicators, such as buried or aboveground storage tanks, odors, and stained or discolored soils.	RTC Construction Manager	Preconstruction/ Construction

Environmental Commitments



14	Hazardous Materials	Project Construction Activities	Prepare a materials management plan to address any hazardous materials discovered during construction.	RTC Construction Manager	Preconstruction/Construction
15	Hazardous Materials	Project Construction Activities	Prepare a health and safety plan to address any hazardous materials discovered during construction.	RTC Construction Manager	Preconstruction/Construction
16	Hazardous Materials	Project Construction Activities	Comply with all federal, state, and local regulations for hazardous waste determinations, management, and disposal, including the NRS, Chapter 459.400 to 459.600, Disposal of Hazardous Waste, and the RCRA	RTC Construction Manager	Preconstruction/Construction
17	Hazardous Materials	Project Construction Activities	Perform asbestos and lead testing on bridge structures in accordance with federal, state, and local regulations, including OSHA. Contact owners of subsurface utilities in areas where excavation is to be conducted to assess whether any impacted utilities are contained in <u>Transite™</u> asbestos pipe. If asbestos or lead is present in the bridge structures or utilities, remove and dispose of materials in accordance with NDOT 2014 Standard Specifications for Road and Bridge Construction. Notify the EPA Region 9 Asbestos NESHAP Coordinator prior to any asbestos removal project.	RTC Construction Manager	Preconstruction
18	Parks and Recreation Resources	Minor permanent encroachment into Wingfield Park along Arlington Avenue.	Minimize permanent encroachment into Wingfield Park during final design. Avoid impacts to park amenities.	RTC Project Manager	Final Design
19	Parks and Recreation Resources	Potential impact to functionality of Truckee River Whitewater Park at Wingfield from new pier configuration at north bridge.	Coordinate with the original designer of the Truckee River Whitewater Park at Wingfield through final design to develop construction plans that provide continued safety and functionality of the whitewater park for recreation use.	RTC Project Manager	Final Design

Environmental Commitments

20	Parks and Recreation Resources	Temporary loss of recreation access to Wingfield Park during construction.	Coordinate with the City of Reno to maintain recreation access to other parks in the Project vicinity during construction.	RTC Construction Manager	Preconstruction
21	Parks and Recreation Resources	Temporary impacts to Wingfield Park during construction.	Temporarily impacted park areas will be restored to preconstruction conditions upon completion of Project construction.	RTC Construction Manager	Construction
22	Parks and Recreation Resources	Disruption of Wingfield Park maintenance during construction.	Prior to construction, prepare a construction management plan that will address City access for Wingfield Park maintenance during construction.	RTC Construction Manager	Preconstruction
23	Parks and Recreation Resources	Removal of trees in park areas during construction.	Trees that are removed will be replaced at a 1:1 ratio with native trees.	RTC Design Manager, RTC Construction Manager	Final Design, Construction
24	Parks and Recreation Resources	Potential safety risks during recreational river use under bridges during construction.	Install overhang forms and debris netting on bridges for over-water work. Netting will be rated to 2000 pounds of drop to prevent construction debris from falling into the river.	RTC Construction Manager	Construction
25	Parks and Recreation Resources	Short-duration restrictions to river access for safety-critical bridge construction activities.	Prior to construction, coordinate with the City of Reno and the whitewater community to develop communication protocols in the event of short-duration river access restrictions during safety-critical bridge construction activities.	RTC Construction Manager	Preconstruction
26	Parks and Recreation Resources	Short-duration restrictions to river access for safety-critical bridge construction activities.	Prior to implementing short-duration river access restrictions, communicate with rafting companies in accordance with previously agreed upon protocols.	RTC Construction Manager	Construction
27	Parks and Recreation Resources	Short-duration restrictions to river access for safety-critical bridge construction activities.	Prior to implementing short-duration river access restrictions, establish a safety-critical zone in the vicinity of bridge construction activities. Evacuate the public from this zone before and during safety critical bridge construction activities.	RTC Construction Manager	Construction

Environmental Commitments

28	Parks and Recreation Resources	Temporary loss of recreational river access during construction.	Temporary signage will be placed along the Truckee River to warn recreationalists of construction activities and provide sources of information on the Project and potential river access restrictions.	RTC Construction Manager	Preconstruction
29	Parks and Recreation Resources	Temporary loss of recreational river during construction.	Prior to construction, prepare a Public Communications Plan in coordination with the City of Reno that includes measures to keep the public apprised of recreation facility closures, access restrictions, and available river access locations during construction. These measures will <u>include</u> , <u>but</u> are not limited to: signage at the project limits, signage at upstream river access points, coordination and communication with recreation outfitters, emails to project contact list, and press releases.	RTC Construction Manager	Preconstruction
30	Parks and Recreation Resources	Short-term closures of Island Avenue or reductions in parallel parking along Island Avenue during construction.	In coordination with the City of Reno, prepare and implement traffic control plans to maintain recreation access to Barbara Bennett Park during construction.	RTC Design Manager, RTC Construction Manager	Final Design/Construction
31	Parks and Recreation Resources	Short-term closures of Truckee River Walk Trail.	In coordination with the City of Reno, prepare and implement traffic control plans to maintain access for Truckee River Walk Trail users.	RTC Design Manager, RTC Construction Manager	Final Design/Construction
32	Parks and Recreation Resources	The pergola serving as a decorative gateway to the Truckee River Walk Trail at the northeast corner of the Arlington Avenue/ Island Avenue intersection would be removed during construction.	In coordination with City of Reno, the pergola near the northeast corner of Arlington Avenue and Island Avenue will be salvaged for storage and potential reuse elsewhere by the <u>City</u> .	RTC Design Manager, RTC Construction Manager	Final design
33	Parks and Recreation Resources	Park and trail users may temporarily experience noise associated with construction activities.	In coordination with the City of Reno, prepare and implement a Construction Management Plan, including measures to reduce noise from construction activities.	RTC Construction Manager	Preconstruction/Construction

Environmental Commitments

34	Parks and Recreation Resources	Park and trail users may temporarily experience dust associated with construction activities.	In coordination with the City of Reno, prepare and implement a Construction Management Plan, including measures to control dust from construction activities.	RTC Construction Manager	Preconstruction/Construction
35	Parks and Recreation Resources	Park and trail users may temporarily experience views of construction vehicles, construction activities, and staging areas during construction.	<ul style="list-style-type: none"> • Fence and screen staging areas as practicable. • Keep the site free of trash and unused materials. • Maintain storage areas in a neat and orderly manner. • Upon completion of work, leave premises clean, neat, and orderly. 	RTC Construction Manager	Construction
36	Socioeconomics	Temporary loss of public space and community cohesion from closure of Wingfield Park during construction.	In coordination with the City of Reno, prepare a Public Communications Plan, including measures to keep the public apprised of recreation facility closures and access restrictions during construction.	RTC Construction Manager	Preconstruction
37	Socioeconomics	Temporary loss of public space and community cohesion from closure of Wingfield Park during construction.	Coordinate with the City of Reno to maintain recreation access to other parks in the Project vicinity during construction.	RTC Construction Manager	Preconstruction
38	Socioeconomics	Temporary loss of public space and community cohesion from closure of Wingfield Park during construction.	Communicate scheduling for the Wingfield Park closure with the City of Reno to allow advance notification to homeless populations in the vicinity.	RTC Construction Manager	Preconstruction
39	Multimodal Facilities	Temporary closure of bike lanes, sidewalks, and pathways across the Truckee River during construction.	In coordination with the City of Reno, designate temporary detour routes for pedestrians and bicyclists and provide signage to maintain connectivity during construction.	RTC Design Manager, RTC Construction Manager	Final Design, Construction

Environmental Commitments

40	Multimodal Facilities	Temporary closure of RTC Bus Route 6 within the study area.	RTC Bus Route 6 will be temporarily rerouted around the closed portion of Arlington Avenue. RTC will determine location of the temporary route and provide public notices to announce the rerouting, provide map of temporary transit route and stops, and temporary transit schedule changes. Signage will direct riders to any temporary transit stops.	RTC Design Manager, RTC Construction Manager	Final Design, Construction
41	Multimodal Facilities	Temporary closures of Truckee River Walk Trail.	In coordination with the City of Reno, prepare and implement traffic control plans to maintain access for Truckee River Walk Trail users.	RTC Design Manager	Final Design, Construction
42	Visual	Temporary impacts from views of construction equipment and activities.	<ul style="list-style-type: none"> • Fence and screen staging areas as practicable. • Keep the site free of trash and unused materials. • Maintain storage areas in a neat and orderly manner. • Upon completion of work, leave premises clean, neat, and orderly. 	RTC Construction Manager	Construction
43	Visual	Removal of trees during construction.	Trees removed will be replaced at a 1:1 ratio with native species.	RTC Design Manager RTC Construction Manager	Final Design, Construction

30% Review Comments



Responses to 30% Review Comments will be sent out this week.

- ▶ Any specific outstanding comments to discuss?

65% Submittal – Design Review Focus



65% Submittal – Design Review Focus

Bridge Design Criteria

- ▶ Floodwater loading
- ▶ Debris loading

Drainage Report

Hydraulic Modeling

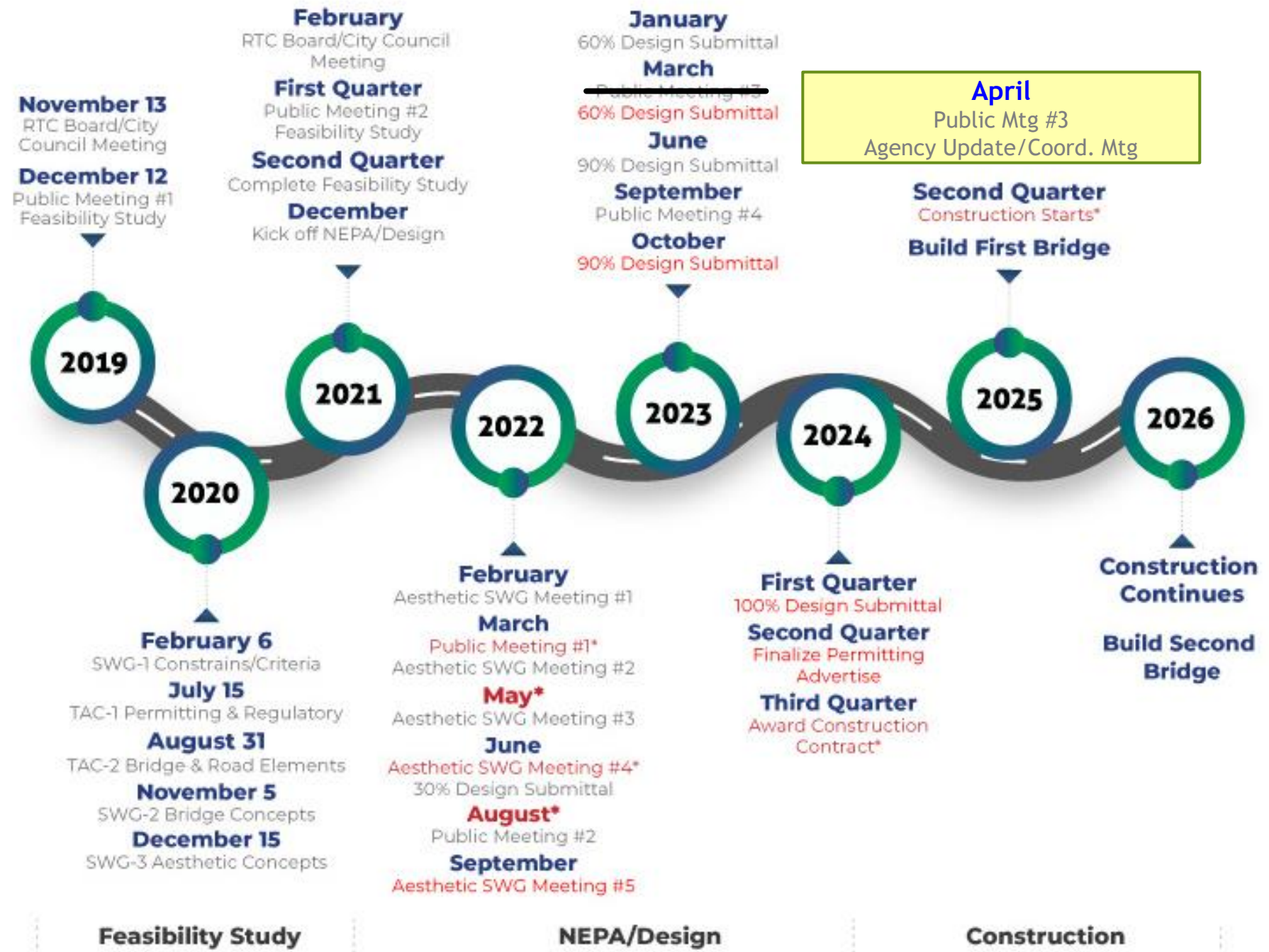
- ▶ CTWCD - 14,000 cfs model
- ▶ CoR/TRFMA - 100-Yr model
(*mtg being scheduled*)

Design Plans

- ▶ Big Picture / Concepts
- ▶ Final detailing for 90% Submittal in Sept - [No time to change concepts/design criteria at future submittal](#)
- ▶ AutoTurn - Fire Truck movements at Island Ave/Arlington Ave - In Progress

**Review Comments
Due March 31**

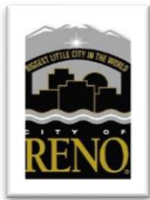
Schedule



* Schedule changes highlighted in red

Thank You for Participating!

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Through Quality Transportation.*
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PK Electrical, Inc.

