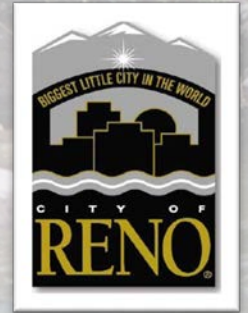


Feasibility Study for



ARLINGTON
AVENUE
BRIDGES
PROJECT

ARLINGTON AVENUE BRIDGES REPLACEMENT

Technical Advisory Committee Meeting #1 | Permitting and Regulatory
Requirements | July 15, 2020

Meeting Purpose

- ▶ Discuss permitting and regulatory requirements for the project
- ▶ Based on Stakeholder Working Group (SWG) Meeting 1 notes
 - ▶ Held February 6, 2020
 - ▶ Environmental and engineering design constraints and criteria
- ▶ Review alternative-specific permitting/regulatory requirements
- ▶ Upcoming meetings
 - ▶ TAC Meeting 2 (bridge/roadway elements) - date **TBD**
 - ▶ SWG Meeting 2 (focus on bridge concepts) - date **TBD**
 - ▶ SWG Meeting 3 (focus on aesthetic concepts) - date **TBD**

Meeting Agenda

- ▶ Technical Advisory Committee Members
- ▶ Project Scope and Process
- ▶ Project Purpose & Need, Schedule & Background
- ▶ Permitting and Regulatory Requirements
- ▶ Summary of Alternative-Specific Requirements
- ▶ Action Items

Permitting/Regulatory TAC Members

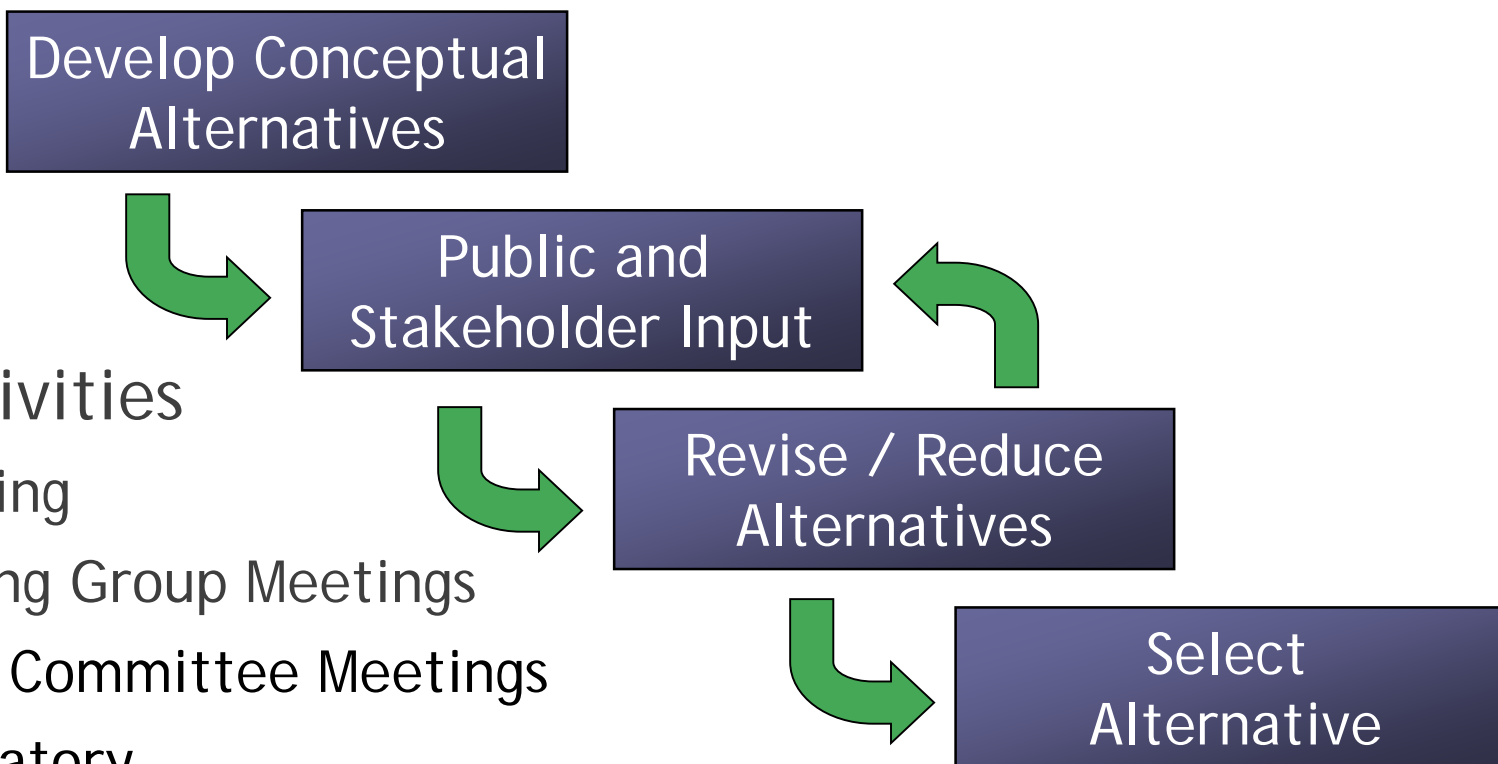
- ▶ City of Reno (CoR)
 - ▶ Public Works Capital Projects Dept.
 - ▶ Historic Resources Commission
 - ▶ Parks, Recreation & Community Services Dept.
- ▶ Carson Truckee Water Conservancy District (CTWCD)
- ▶ Federal Highway Administration (FHWA) - Nevada Division
- ▶ Nevada Dept. of Transportation (NDOT)
- ▶ Reno-Sparks Indian Colony (RSIC)
- ▶ Pyramid Lake Paiute Tribe (PLPT)
- ▶ State Historic Preservation Office (SHPO)
- ▶ U.S. Army Corps. Of Engineers (USACE)
- ▶ Nevada Division of Environmental Protection (NDEP)
- ▶ Nevada Division of State Lands (NDSL)

Project Scope

- ▶ Complete a feasibility study to define scope of future phases
- ▶ Future Phases
 - ▶ National Environmental Policy Act (NEPA) and Design (2021-2025)
 - ▶ Construction (2026)
- ▶ Goal - Reduce the range of possible bridge type and aesthetic themes through engineering analysis and by conducting public outreach
- ▶ Outcome - have a bridge type and aesthetic package identified to carry forward into NEPA clearance and design
 - ▶ Document decisions using Planning and Environmental Linkages (PEL) process & NDOT PEL Checklist

Project Process

- ▶ Modeled after Virginia Street Bridge process



- ▶ Public Outreach Activities

- ▶ Public Kick-off Meeting
- ▶ 3 Stakeholder Working Group Meetings
- ▶ 2 Technical Advisory Committee Meetings
 - ▶ Permitting/Regulatory
 - ▶ Bridge/Roadway Elements
- ▶ 1 Additional Public Meeting

Project Purpose and Need

- ▶ Address Structurally Deficient Arlington Avenue Bridges
- ▶ Provide Safe and ADA compliant Multimodal improvements
- ▶ Address hydraulic capacity needs
- ▶ Respond to regional and community plans



Project Schedule



	2019	2020	2021-2025	2026
Public Kickoff	* (star icon)			
Identify and Analyze Bridge and Aesthetic Concepts		Bar (spanning 2019-2020)		
Public Meeting			* (star icon)	
Complete Feasibility Study			Bar (spanning 2021-2022)	
Environmental (NEPA)			Bar (spanning 2022-2025)	
Design Permitting			Bar (spanning 2024-2025)	
Construction Start				* (star icon)

Permitting Requirements

- ▶ CoR - Special Use Permit (SUP)
 - ▶ CoR determined suitability/need?
- ▶ USACE - 408 Permit
 - ▶ USACE 408 permit must precede USACE 404 permit
 - ▶ USACE will coordinate with CTWCD, NDSL and USACE civil works
 - ▶ 18 month review/permitting schedule
 - ▶ Flood risk modeling required (flood elevation (4,502 feet AMSL) + 2 feet of freeboard)

Permitting Requirements

- ▶ USACE - 404 Permit
 - ▶ Regulates dredge/fill in waters of the U.S. (WOUS)
 - ▶ Requires jurisdictional delineation (JD) of wetlands and WOUS
 - ▶ Includes Sect. 7 and 106 consultations
 - ▶ 18+ month review/permitting schedule
- ▶ NDEP - 401 Water Quality Certification
 - ▶ Regulates water quality during construction

Permitting Requirements

- ▶ NDEP - Construction Stormwater Permit
 - ▶ General permit (#NVR100000) required
 - ▶ 1 acre (or more) will be disturbed
 - ▶ potential to impact WOUS within ¼ mile of the project
- ▶ NDSL - Encroachment Permit
 - ▶ Required to use state-owned lands below the ordinary high water mark (OHWM)

Regulatory Requirements

- ▶ Determine OHWM
- ▶ Analyze current flood model (with TRFMA)
 - ▶ 100-year WSEL - 4,502 feet AMSL
 - ▶ TRFMA modeling to guide alternatives design
- ▶ Consult with U.S. Fish & Wildlife Service (USFWS)
 - ▶ Section 7 requires biological assessment (BA) to document natural resources impacts and mitigation
 - ▶ BA is prepared/submitted with 404 permit application

Regulatory Requirements

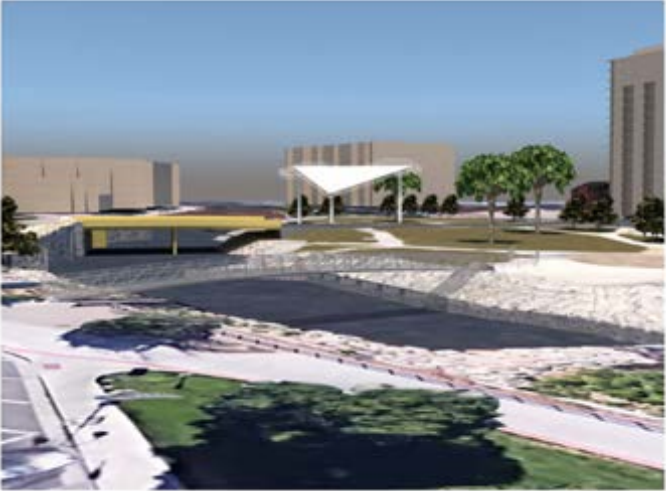
- ▶ Consult with State SHPO
 - ▶ Section 106 requires documentation of impacts and mitigation, including direct and indirect effects to historic properties
 - ▶ USACE consultation with SHPO and traditional cultural property (TCP) considerations for Truckee River
- ▶ U.S. Dept. of Transportation (DOT) Section 4(f)
 - ▶ Prohibits the taking/using of publicly owned parks, recreation areas unless no feasible/prudent alternative exists

Regulatory Requirements

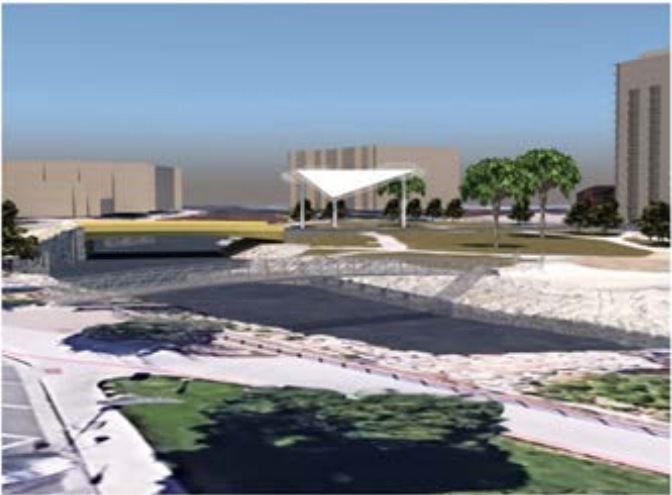
- ▶ Land and Water Conservation Fund (LWCF) Act Section 6(f)
 - ▶ Not Applicable - publicly owned parks, recreation areas and other outdoor recreation resources do not qualify as LWCF properties
- ▶ Stormwater Pollution Prevention Plan (SWPPP)
 - ▶ Compliance and water quality monitoring (with USACE/NDEP input)

Alternative-Specific Concepts

SINGLE PIER CONCEPT

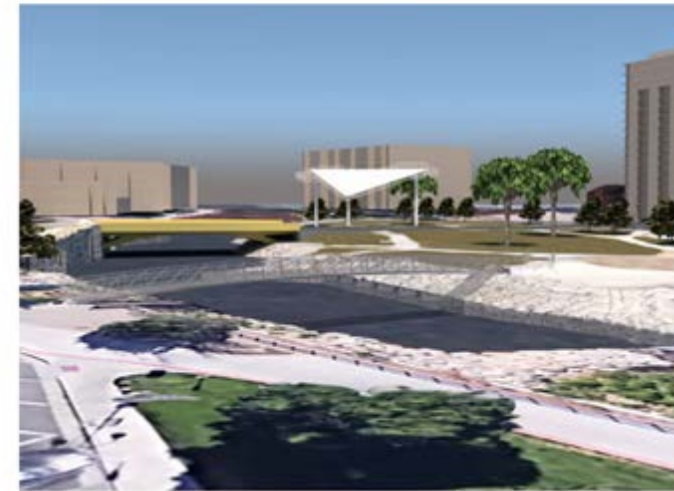


CLEAR SPAN CONCEPT

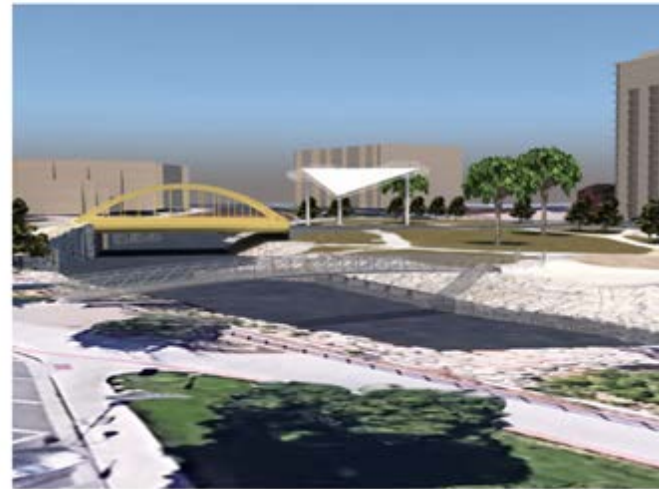


Alternative-Specific Concepts

UNDERDECK ARCH CONCEPT



TIED ARCH CONCEPT



Alternative-Specific Concepts

ELEVATED BRIDGE CONCEPT



Alternative-Specific Requirements

Permitting & Regulatory Requirements	Alternative Bridge Description				
	Alternative 1 (Single Pier)	Alternative 2 (Clear Span)	Alternative 3 (Underdeck Arch)	Alternative 4 (Tied Arch)	Alternative 5 (Elevated)
CoR SUP	✓	✓	✓	✓	✓
USACE 408 Permit	✓	✓	✓	✓	✓
USACE 404 Permit	✓ *	✓	✓	✓ *	✓ *
NDEP Stormwater Permit	✓	✓	✓	✓	✓
NDSL Encroachment Permit	✓ *	✓	✓	✓	✓
NDEP 401 Certification	✓	✓	✓	✓	✓

* additional requirements possible during permitting and/or construction

Discussion Summary, Concurrence & Agreements



Thank you for Attending!



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