

Design and Environmental Study For



ARLINGTON AVENUE BRIDGES REPLACEMENT

Agency Kickoff Meeting Presentation | February 4, 2022

Purpose of This Presentation

- ✓ Project History and Background
- ✓ Schedule is our “Road Map”
- ✓ Project Team Roles / Responsibilities
- ✓ Communications and Project HUB
- ✓ Project Status Update
- ✓ PEL to NEPA Transition
- ✓ Share Ideas and Suggestions



Project History and Background

- ▶ Feasibility Study completed June 2021
 - ▶ Define scope, constraints, and cost
 - ▶ Extensive public engagement process
 - ▶ Started with 5 initial bridge alternatives
 - ▶ Identified bridge type and aesthetic package to carry forward into NEPA clearance and design
 - ▶ Funding allocated
- ▶ NEPA/Design contract awarded to Jacobs December 2021

☑ DONE!

Honored to receive \$7 Million RAISE Grant for Construction
Must be Obligated By September 2024!

Purpose and Need

Agreed upon with FHWA, NDOT, and City of Reno

Vetted with Reno City Council, TAC, SWG, and the Public during the Feasibility Study

- ▶ Address structurally deficient bridges
- ▶ Preserve the hydraulic capacity of the Truckee River
- ▶ Provide safe and ADA compliant multimodal improvements
- ▶ Respond to adopted regional and community plans



Project History and Background

Feasibility Study Results

- ▶ Single Pier for North Bridge
- ▶ Clear Span for South Bridge (match existing)
- ▶ Aesthetics Theme - Modern Art Deco, a melding of old and new



Project History and Background



Single Pier

Why Single Pier North Bridge?

- ▶ Reduced deck thickness
- ▶ Vertical clearance along path
- ▶ Opportunity for wider sidewalks along bridges
- ▶ Minor profile adjustments for hydraulic model clearance
- ▶ Similar look to existing (2-pier) bridge
- ▶ Maintenance access from bridge allows for debris removal prior to downstream narrowing of river
- ▶ Easier to construct
- ▶ Less expensive

Feasibility Study Results

Still Undetermined

- ▶ Cast-In-Place (CIP)
 - ▶ Falsework within the river for abutments and superstructure
 - ▶ Aesthetically more ‘park’ friendly look

- ▶ Precast
 - ▶ Falsework within the river for abutments; superstructure set in place
 - ▶ Aesthetically more ‘highway’ type look

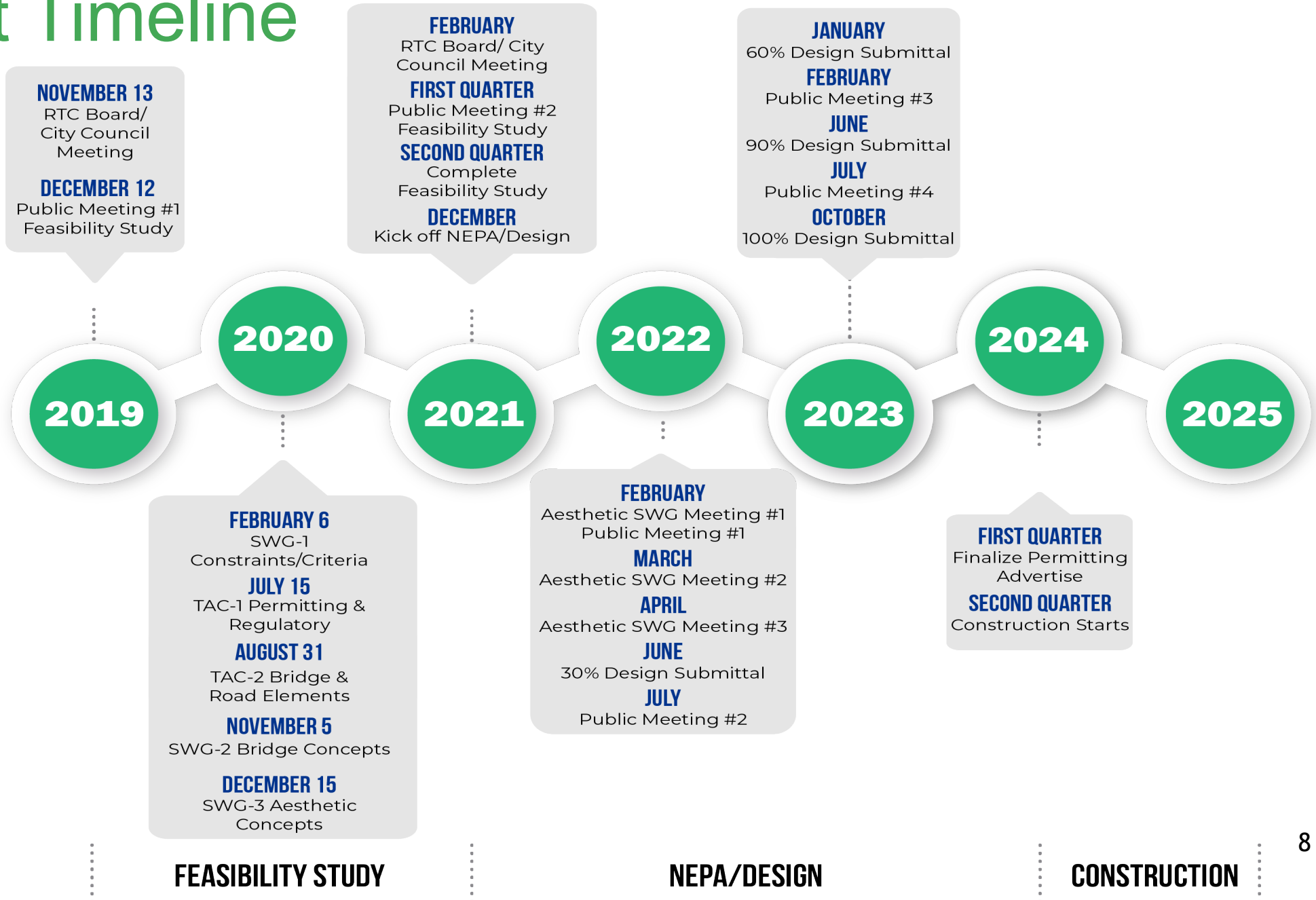


CIP - Box Girder From Veteran's Parkway (Reno)



Precast Girders - Project NEON (Las Vegas)

Project Timeline



Rolls & Responsibilities

- ▶ **RTC** - Management and Administration for NEPA/Design/Construction
- ▶ **City of Reno** - Owner, Design Review
- ▶ **NDOT** - LPA Agreement, Environmental Oversight and Review
- ▶ **FHWA** - NEPA class of action determination, Environmental Oversight and Review
- ▶ **USACE** - Section 408 Permit, Section 404 Permit
- ▶ **CTWCD** - Local sponsor of USACE for Section 408 Permit
- ▶ **Jacobs** - Prime Consultant, Survey, Bridge, Civil, Hydraulic
- ▶ **Stantec** - Landscape & Aesthetics
- ▶ **Civil FX/Parametrix** - Renderings
- ▶ **CME** - Geotechnical
- ▶ **PK Electrical** - Lighting and Electrical
- ▶ **SJ Marketing** - Public Outreach with the RTC communications Team
- ▶ **PCSG** - ICE, Constructability, Construction Schedule

Identified Key Groups



Aesthetic Stakeholder Working Group (ASWG)

- ▶ Review, provide input, and decide on aesthetic concepts and final design
- ▶ 4 meetings - February, March, April, August 2022

Design Review Committee (DRC)

- ▶ Technical review, identify/discuss major impacts of design decisions, discuss environmental impacts
- ▶ Monthly meetings through final design

Agency Involvement

- ▶ Provide update and opportunity for discussion on decisions made and permitting status
- ▶ Quarterly meetings as necessary

Utility Involvement

- ▶ Coordinate design, adjustment, relocation, and additional utilities
- ▶ Bi-monthly meetings as necessary with focused discussion at DRC meetings

Public

- ▶ Obtain feedback on bridge type, landscaping, and aesthetics
- ▶ Provide advance notification of what to expect during construction
- ▶ 4 public meetings anticipated

Communications



- ▶ Meetings - We value our Team's time and input
- ▶ Website - www.ArlingtonBridges.com

COMING SOON!

- ▶ Project Hub

COMING SOON!

Project Hub

Centralized source of project information

Latest design auto-populates embedded interactive map

Field photos from Collector app auto-populate photo viewer

Project Team, Schedule, Meeting Notes

Customizable Project Dashboard

A screenshot of the Project Hub website interface. The header includes the Jacobs logo with the tagline "Challenging today. Reinventing tomorrow." and the user name "Elliot". The main content area is titled "Project Overview" and includes the project number "TBD", location "Denver, Colorado", and a description of the Colorado Power Pathway Project. Below this is a "Project Site Map" section showing a map of the project area with a "Project Hub" overlay.

Project Links and Tools

 Project Contact List Database of project team contacts, agency contacts, and public mailing list Explore	 SharePoint Link to project SharePoint site Explore	 ProjectWise Link to ProjectWise Explore	 OneNote Link to shared OneNote site for project meeting summaries Explore
 Project Schedule Link to project schedule Explore	 Purpose & Need Link to purpose and need statement Explore	 Alternatives Link to alternatives report Explore	 Author Guidelines & Document Templates Link to folder with to author guidelines and document templates Explore

Project Status Update



- ▶ Topographic Survey and Utility Investigations
- ▶ Geotechnical Investigations
- ▶ Existing Hydraulic Model
- ▶ Section 408 Permit coordination with CTWCD
- ▶ PEL -> NEPA Transition for Environmental Study
- ▶ Design Criteria
- ▶ Public Meeting #1 - March 2022 Pre-Recorded Presentation with Survey

PEL to NEPA Transition

Planning and Environmental Linkages (PEL) Process included planning products that can be carried forward into NEPA

- ▶ Purpose and Need
- ▶ Data Collection
- ▶ Alternatives Analysis/Preferred Alternative Identification
- ▶ Appropriate Public, Agency, TAC, SWG input

Environmental data collection to support NEPA underway



Project Schedule

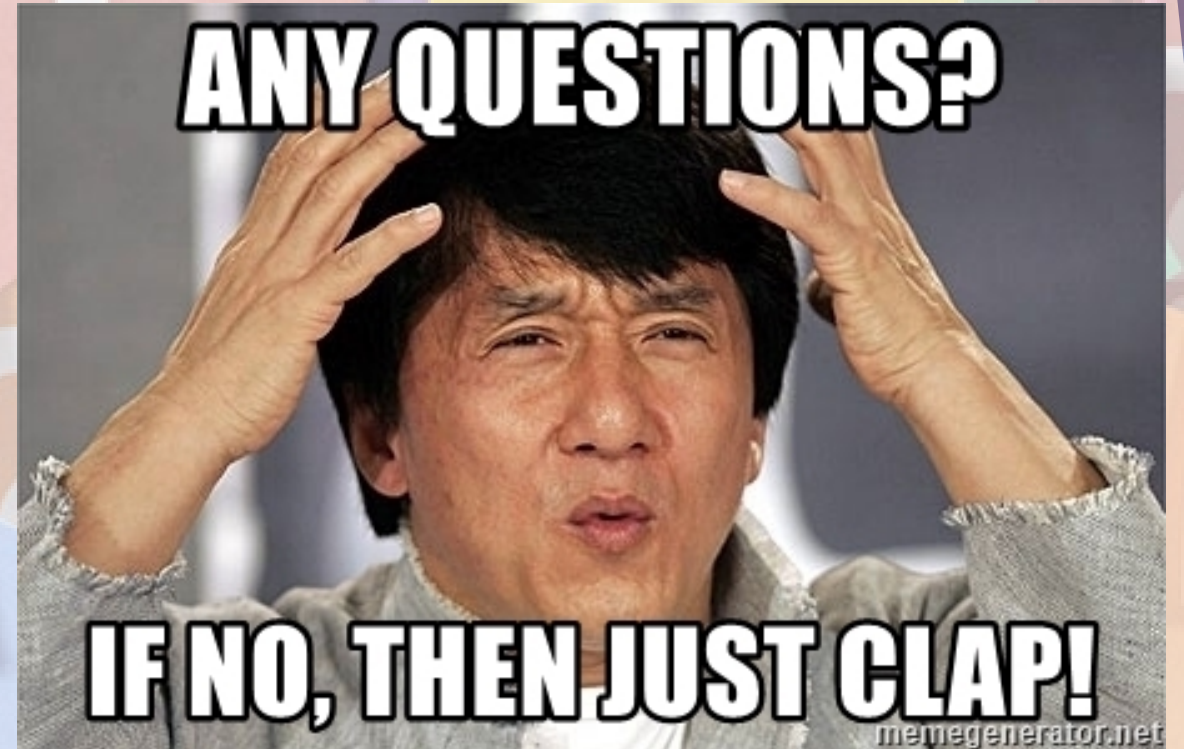
Arlington Avenue Bridges Preliminary Design / NEPA / Final Design

Week #	12/12/2021		Get CTWCD Model & Datum						NEPA	408 Permit	404 Permit	NDEP/NDLS Permits	Design Review Committee	Aesthetic Stakeholder Working Group	Agency Coord. Mtgs	RTC Board	WC Board	Reno City Council																						
	12/17/2021		Contract Approved at RTC Board Meeting																																					
1	12/20/2021	Xmas	Bathymetric Survey, Topographic Survey, Drone Flight, Existing Ground dms	Review CTWCD model	Geotechnical Invest & Draft Report, Traffic Analysis	ProjectWise Setup	Exist ROW - WC GIS	PEL to NEPA Trans. Memo	Coordinate with CTWCD to discuss project	Coordinate with USACE discuss submittal reqs.			DRC Member List	ASWG Member list						Public Meeting Member List																				
2	12/27/2021	New Year																																						
3	1/3/2022																																							
4	1/10/2022			Existing Utilities & As-Builts Research		Design Criteria	NEPA Scoping Mtg, PEL-NEPA																																	
5	1/17/2022	MLK																																						
6	1/24/2022																																							
7	1/31/2022			30% Design 3 Aesthetic Concepts, Bridge Type Selection Report		Review Geotech Report	Alignments & Typ Section	Sheet Layout	Bridge / Roadway Profile Coordination	Coordinate with CTWCD to discuss project	Coordinate with USACE discuss submittal reqs.				DRC Mtg - Review Design Criteria; Existing Hydro Model Results							Public Mtg Notices and Postcards																		
8	2/7/2022																																							
9	2/14/2022																																							
10	2/21/2022																						Update Existing Hydraulic Model	Design Criteria	NEPA Scoping Mtg, PEL-NEPA															Presentation Preparation
11	2/28/2022																																							
12	3/7/2022																																							
13	3/14/2022		30% Design 3 Aesthetic Concepts, Bridge Type Selection Report		Proposed Hydraulic Model Results																		Onsite Drain, Elect, Utilities, Etc.			Coordinate with CTWCD to discuss project	Coordinate with USACE discuss submittal reqs.				DRC Mtg - Maintenance Access To River; South Under Bridge							30-Day Public Presentation Open For Comments		
14	3/21/2022																																							
15	3/28/2022																																							
16	4/4/2022																																							
17	4/11/2022																																							
18	4/18/2022																																							
19	4/25/2022																																							
20	5/2/2022																																							
21	5/9/2022																																							
22	5/16/2022			30% Design 3 Aesthetic Concepts, Bridge Type Selection Report		Drainage Report	Quantities, Cost Estimate	Plan Sheet Drafting		Coordinate with CTWCD to discuss project	Coordinate with USACE discuss submittal reqs.				DRC Mtg - All Discipline Discussion							Venue Reservation																		
23	5/23/2022																																							
24	5/30/2022	Memorial																																						
25	6/6/2022																																							
26	6/13/2022																																							
27	6/20/2022																																							
28	6/27/2022																																							
29	7/4/2022	4th July	Agency Review		Submit 30%																		Develop Build-A Bridge			Coordinate with USACE discuss submittal reqs.												In-Person & Recorded		
30	7/11/2022																																							
31	7/18/2022																																							
32	7/25/2022																																							
				Constructability, Risk, Value Eng. Workshop				Submit 408 Permit																																
									Prepare PCN												30-Day Public																			

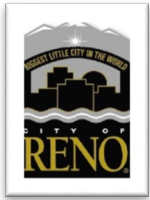
Prepare Attachments:
 1. Vacinity Map, 2. Adj. Land Uses, 3. Proj. Areas, 4. Pre-Prop. Conds.,
 Property Owner, 6. Proj Plans, 7. Geotech, 8. Hydraulic Impact Analysis
 9. Construction Methods, 10. Vegetation Removal/Disturbance, 11. Risk
 Channel Disturbance, 12. Project Schedule, 13. Env. Document and
 Agency Coordination, 14. MUDs, 15.

Week #	12/.....	Col	NEPA	408 Permit	404 Permit	NDEP/NDSL Permits	Design Review Committee	Aesthetic Stakeholder Working Group	Agency Coord. Mtgs	RTC Board	WC Board	Reno City Council	Public Meetings
33	8/1/2022						Prepare City Submittal						Presentation Open For Comments
34	8/8/2022		30% Comment Review Meeting					DRC Mtg					
35	8/15/2022												
36	8/22/2022								ASWG #4 - Final Decisions to Design to 60%	Memo			
37	8/29/2022												
38	9/5/2022	Labor						DRC Mtg					
39	9/12/2022												
40	9/19/2022							DRC Mtg					
41	9/26/2022												
42	10/3/2022												
43	10/10/2022							DRC Mtg					
44	10/17/2022												
45	10/24/2022									Memo		Memo	
46	10/31/2022												
47	11/7/2022	Veterans											
48	11/14/2022												
49	11/21/2022	Thanksgiving											
50	11/28/2022												
51	12/5/2022												
52	12/12/2022												
53	12/19/2022			Draft Specifications	Plan Sheet Drafting	Finalize NEPA							
54	12/26/2022	Xmas		Quantities, Cost Estimate									
55	1/2/2023	New Year											Public Mtg Notices
56	1/9/2023		Submittal Draft										
57	1/16/2023	MLK	Internal QC	PCSG Review									Presentation Preparation
58	1/23/2023		Final Drafting										
59	1/30/2023		Submit 60%							Memo			In-Person & Recorded
60	2/6/2023							DRC Mtg					
61	2/13/2023		Agency Review	Constructability, Risk, Value Eng. Workshop									Public Mtg #3
62	2/20/2023												Chosen Aesthetics, Bridges, Design, Agency Comments
63	2/27/2023												
64	3/6/2023		60% Comment Review Meeting										30-Day Public Presentation Open For Comments
65	3/13/2023												
66	3/20/2023		Potholing Utilities				Address USACE Comments				Memo		
67	3/27/2023												
68	4/3/2023												
69	4/10/2023						RTC and NDOT Review						
70	4/17/2023												
71	4/24/2023			Specifications									
72	5/1/2023						Address RTC & NDOT Comments						
73	5/8/2023			Quantities, Cost Estimate	Plan Sheet Drafting								
74	5/15/2023						Submit final City to USACE						

Questions / Discussion



Thank You for Your Role In This Great Project!



*Building A Better Community
Through Quality Transportation.*
rtcwashoe.com



Jacobs



PK Electrical, Inc.

