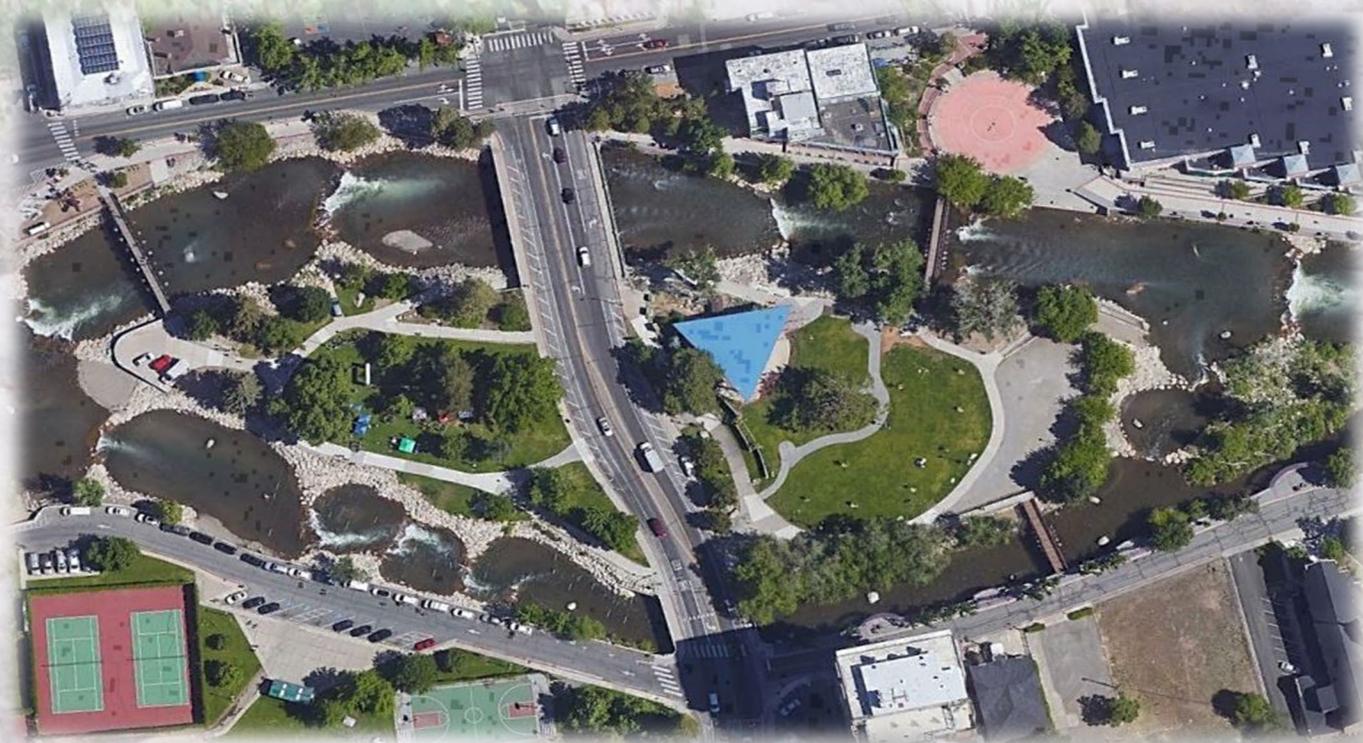


Design and Environmental Study For



ARLINGTON AVENUE BRIDGES REPLACEMENT

Agency Meeting #2 | July 11, 2022

Purpose of This Presentation

- ✓ Environmental Updates
- ✓ Permitting Updates
- ✓ Design Updates
- ✓ Landscape & Aesthetics Updates
- ✓ Next Steps & Schedule
- ✓ Questions / Discussion



Environmental Updates

- ✓ NEPA clearance
- ✓ Cultural Resources -- Section 106 Consultation
- ✓ Park & Recreation Resources -- Section 4(f) Approvals
- ✓ Threatened and Endangered Species -- Section 7 Consultation
- ✓ Environmental Clearance



NEPA Clearance

- ▶ Likely a Categorical Exclusion
- ▶ Resource technical reports prepared this summer/fall
- ▶ Impact analyses based on 30% design
- ▶ Anticipate NEPA clearance in Feb/Mar 2023



Cultural Resources

- ▶ Database search conducted for historic properties during feasibility study
- ▶ Native American consultation: NDOT sent invitations to tribes in late 2021.
- ▶ Section 106 compliance
 - ▶ Consulted on boreholes; SHPO concurred with No Adverse Effect.
 - ▶ Produced Draft Areas of Potential Effect map and Screening Form
 - ▶ Coordinating with NDOT Cultural Resources staff on review of APE map, Screening Form, and content of Architectural History Survey Report.
 - ▶ Next steps:
 - ▶ Historic survey/documentation
 - ▶ Prepare draft report/effect determination
 - ▶ Consult with tribal governments, SHPO, and 106 consulting parties.

Parks & Recreation Resources

- ▶ Seven park/recreation resources are located within the study area.



Section 4(f)

- ▶ Section 4(f) of U.S. Dept. of Transportation Act protects “significant” parks and recreation areas. Five park/recreation resources are significant (per City of Reno).
 - ▶ Section 4(f) has a *de minimis* provision that allows a “use” (or impact) when project would not adversely affect the activities, features, or attributes that qualify the park for protection under Section 4(f)
 - ▶ Approval for *de minimis* requires agreement from owner (City) and opportunity for public comments.
 - ▶ Propose *de minimis* impact for Wingfield Park/Whitewater Park and Truckee River Walk Trail.

Threatened and Endangered Species

| Common Name | Scientific Name | Federal Status |
|----------------------------------|---------------------------------------|----------------|
| Sierra Nevada Yellow-legged Frog | <i>Rana sierrae</i> | Endangered |
| Cui-ui | <i>Chasmistes cujus</i> | Endangered |
| Lahontan Cutthroat Trout | <i>Oncorhynchus clarkii henshawi</i> | Threatened |
| Carson Wandering Skipper | <i>Pseudocopaeodes eunus obscurus</i> | Endangered |
| Monarch Butterfly | <i>Danaus plexippus</i> | Candidate |
| Webber's Ivesia | <i>Ivesia webberi</i> | Threatened |

Threatened and Endangered Species

- ▶ FWS Consultation
 - ▶ Geotechnical bore: concurred with No Effect to the two protected fish species (Cui-ui and Lahontan Cutthroat Trout) assuming work occurs b/w July-November
 - ▶ Overall project: Preparing a Biological Assessment for two fish species



Cui-ui



Lahontan Cutthroat Trout

Section 408 Permit

- ▶ Truckee River is a USACE Civil Works Project within our project limits
- ▶ Carson-Truckee Water Conservancy District is the local representative for USACE
- ▶ Regulatory boundary: 14,000 cfs inundation delineation (see map next slide)
(Approximate 50-year storm event)
- ▶ Section 408 Permit from USACE grants permission to alter their Civil Works project upon determination that the alteration will not be injurious to the public interest and will not impair the usefulness of the Civil Works project.

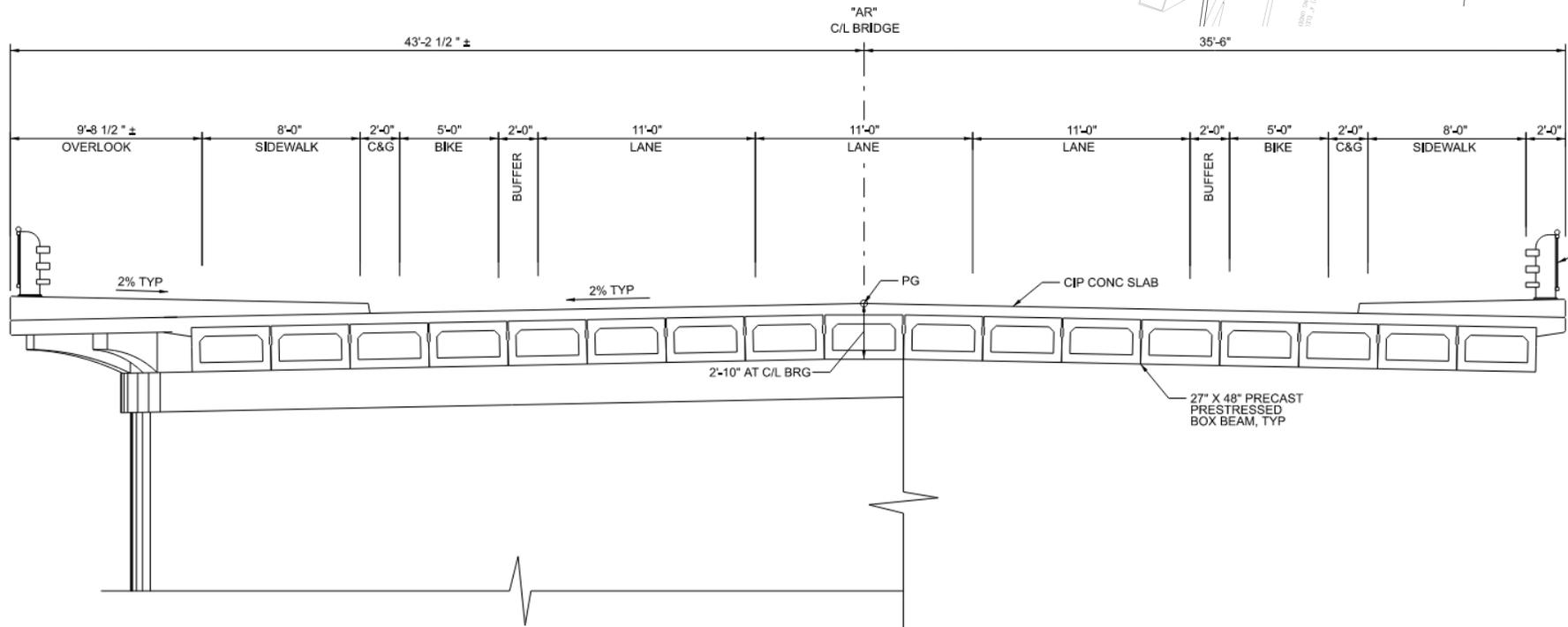
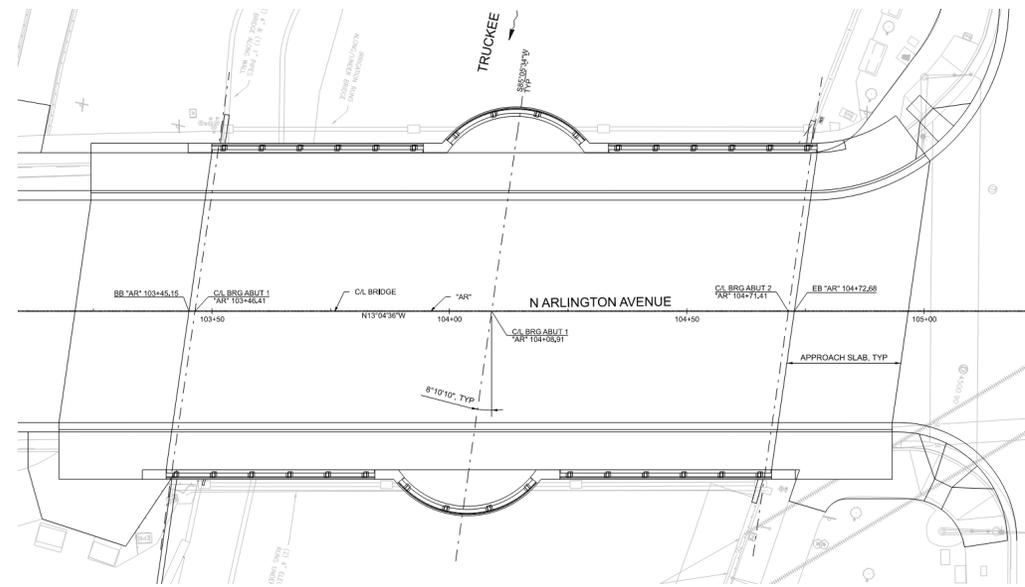
CTWCD 14,000 cfs Inundation Map



Section 408 Permit

- ▶ Section 408 Permit for Overall Project
 - ▶ Submit end of 2022 ~ 18 month review time
- ▶ Section 408 Permit for Geotechnical Borings
 - ▶ 1 Boring within Truckee River
 - Section 404 Nationwide Permit Required
 - ▶ 3 Additional Borings within the 14,000 cfs limits
 - North and South of South Bridge
 - South of North Bridge
 - ▶ 1 Boring outside of 14,000 cfs limits.
 - North of North Bridge
 - ▶ Re-Submit August 2022 - 9 month review time
 - ▶ Original application - 1 boring within the river OHWM
 - ▶ Violation for completing two and beginning a third boring within in the 14,000 cfs

North Bridge

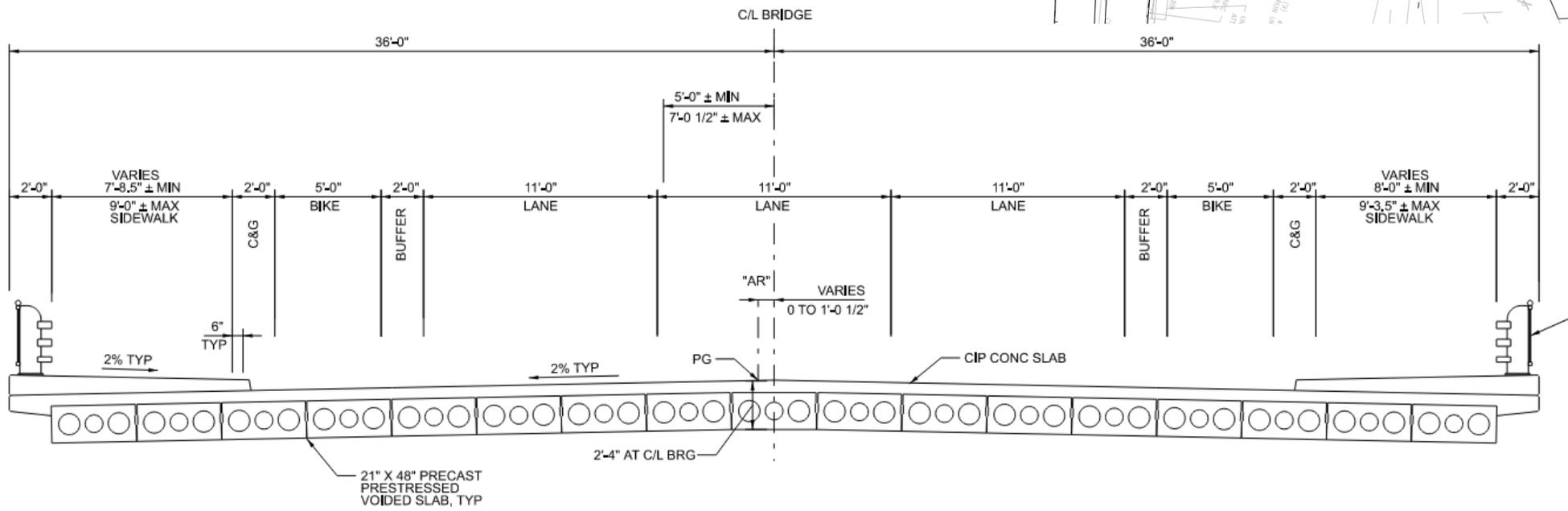
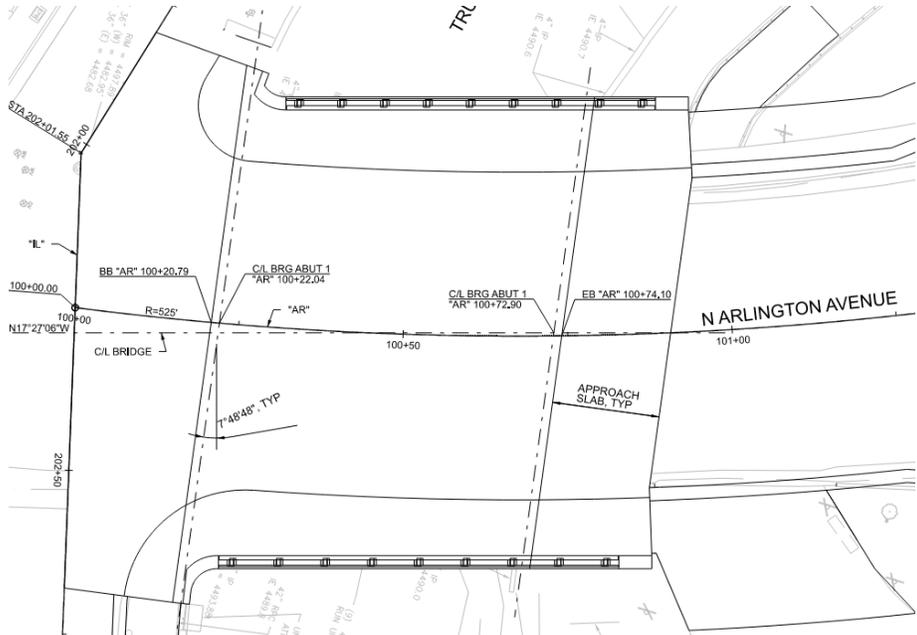


SECTION AT PIER

TYPICAL SECTION
1/4"=1'-0"

TYPICAL DECK SECTION

South Bridge



TYPICAL SECTION
1/4"=1'-0"

Landscape and Aesthetics – Railing Options



TX DOT Concrete Railing



Metal Railing



Concrete Railing
w/Metal Railing at Overlook

Landscape and Aesthetics – Lighting Options



Pole with Post-top Luminaire to be Mounted on Mid-Span Pilasters

Option 1 - Pole with LED Post-Top Luminaire



Multiple post-top luminaire choices are available – final selection to be determined in Final Design



Option 2 - Custom Column with Bridge Rail Motif



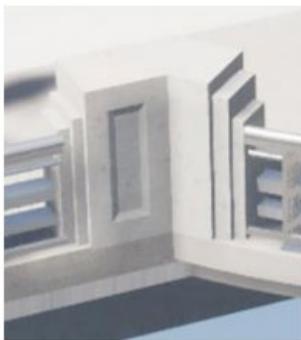
Custom Light Column with Luminaire and Column to Match Bridge Rail Motif

Custom Light Column Mounted on to be Mounted on Mid-Span Pilasters

Landscape and Aesthetics – Pylon Options



End Pylon

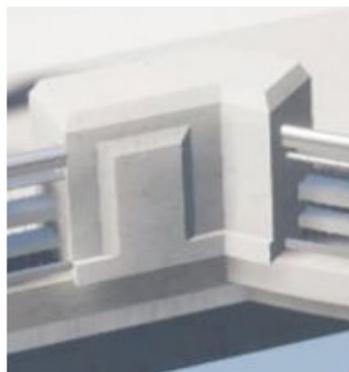


Mid-Span Pilaster at Overlook

Group A: End Pylon 3'-4" W, 2'-0" D, 5'-0" H



End Pylon



Mid-Span Pilaster at Overlook

Group B: End Pylon 3'-8" W, 2'-6" D, 4'-6"



End Pylon



Mid-Span Pilaster at Overlook

Group C: End Pylon 3'-6" W, 2'-0" D, 5'-10" H

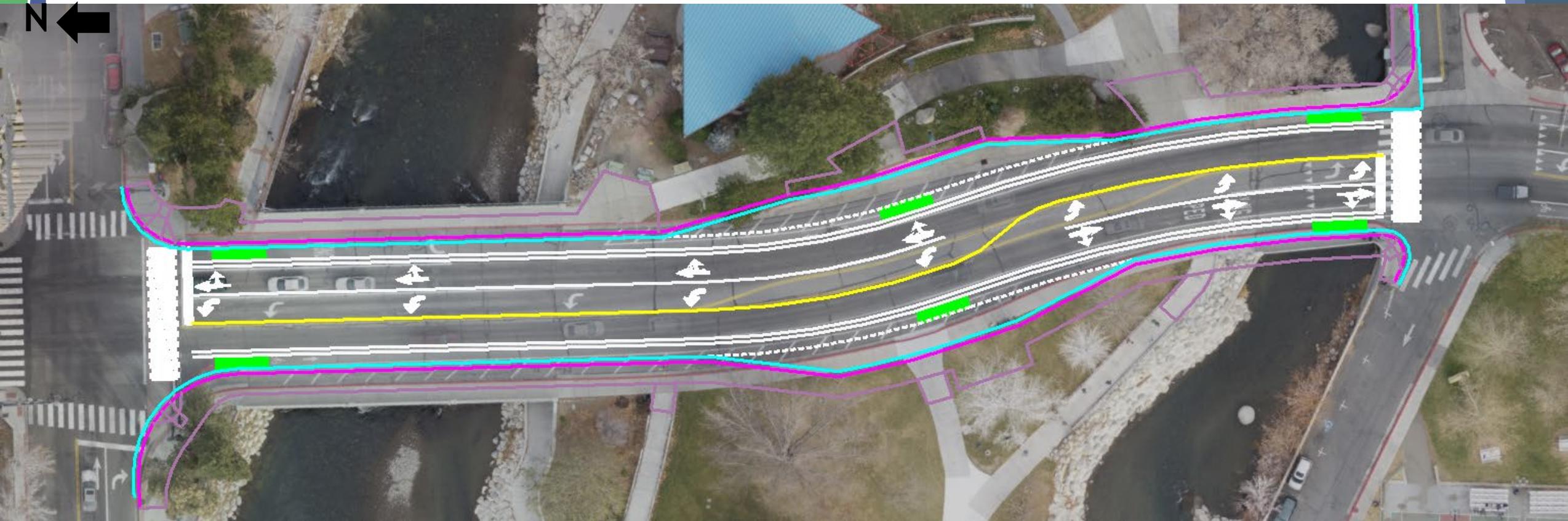
Landscape and Aesthetics – Example Pylon Placement on North Bridge



Next Steps / Schedule

Begin 60% Design

- ▶ Utility Coordination
- ▶ Existing Lighting Intensity - Field Measurements (To ensure at least matching existing)
- ▶ Bridge Design w/ best geotechnical information assumptions
- ▶ Aesthetic Selections

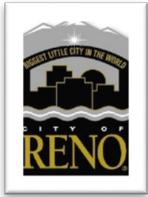


Next Steps / Schedule

- ▶ July 28th - Revised Geotechnical Boring Section 408 Application to CTWCD
- ▶ July 29th - 30% Submittal Comments Due
- ▶ August 9th - CTWCD Board Meeting - Geo. Boring Section 408 Application
- ▶ August 11th - Public Meeting at McKinley Arts Center
- ▶ Mid-September - Section 408 Training to Engineering Community
- ▶ Oct 2022- Submit Overall Project Section 408 Application to CTWCD
- ▶ Dec 13, 2022 - CTWCD Board Meeting
- ▶ August 2024 - Contractor Selected
- ▶ Sept. 30, 2024 - Deadline For \$7M RAISE Grant Funds Obligation

Questions / Discussion

Thank You for Your Role In This Great Project!



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



Jacobs

