Design and Environmental Study For



ARLINGTON AVENUE BRIDGES REPLACEMENT

ARLINGTON A V E N U E BRIDGES PROJECT

Design Review Committee Meeting #9 | January 10, 2023

Purpose of Today's DRC Meeting:

- ✓ Utility Updates
- Environmental Updates
- ✓ Aesthetics Design Updates
- Roadway Design Updates
- ✓ Schedule
- ✓ Open Questions/Discussion



PROJECT

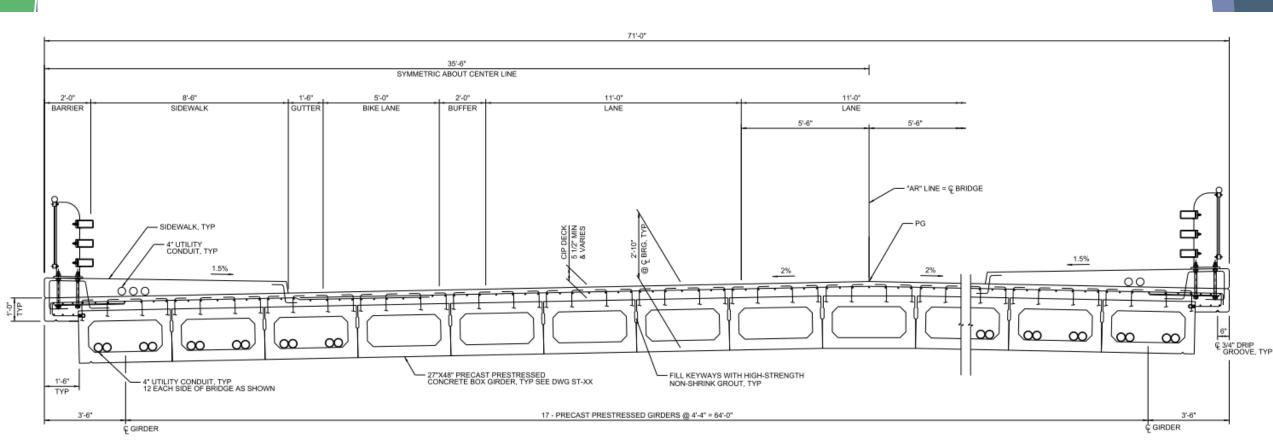








Bridge Typical Section



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 H₂0, 1 IRR H₂O, 1 Comm; East: 1 Dom H₂O, 1 IRR H₂O



Environmental Update





Environmental Update

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NEPA Clearance

- FHWA agreed to provide NEPA clearance ahead of permits
- All technical memos supporting the CE being revised to reflect:
 - Recreational river access maintained during construction
 - Sediment removal and channel recontouring near the north bridge
- Section 106: addressing NDOT comments on Historic Report
- Section 4(f): preparing de minimis and temporary occupancy letters for City of Reno concurrence
- Section 7: responding to USFWS questions on BA

USACE Permits

- Geotechnical Work
 - Section 408 permit currently being reviewed by USACE
 - Section 404 permit to be submitted when Section 7 is complete
- Project
 - Section 408 permit preapplication mtg with USACE and CTWCD on Jan 26
 - USACE clarified that review can proceed ahead of NEPA clearance
 - Section 404 permit to be submitted later in design process.

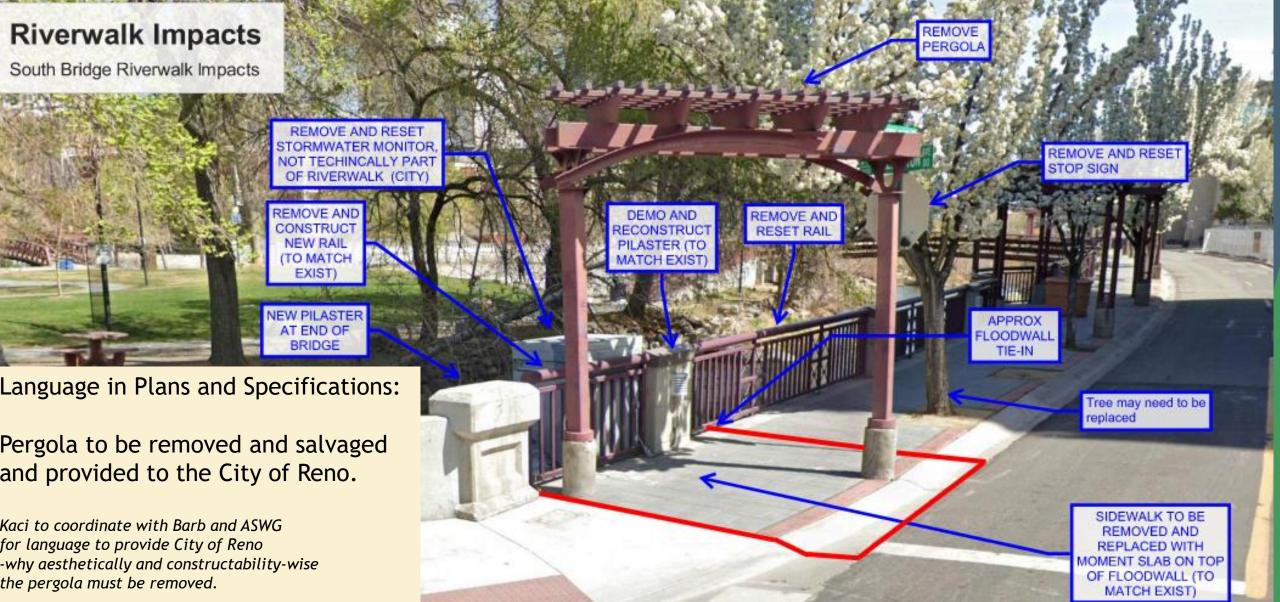
Aesthetic Updates





Riverwalk Impacts





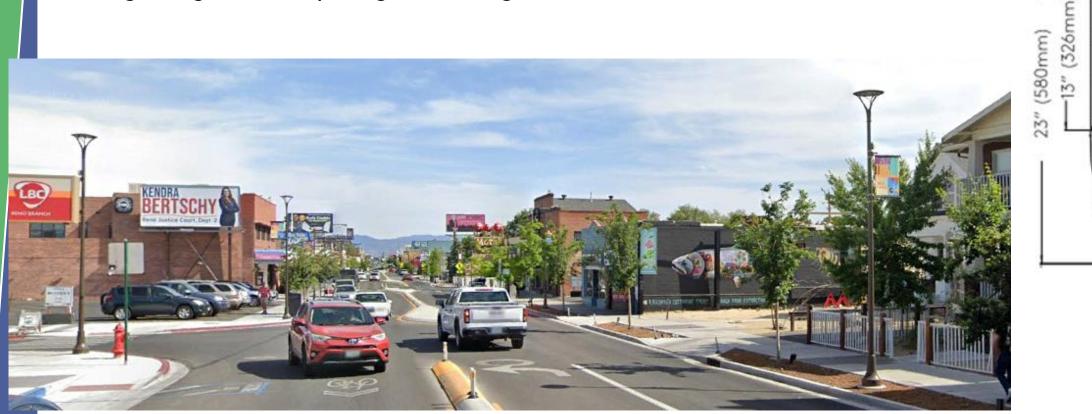


Lighting/Aesthetic Update

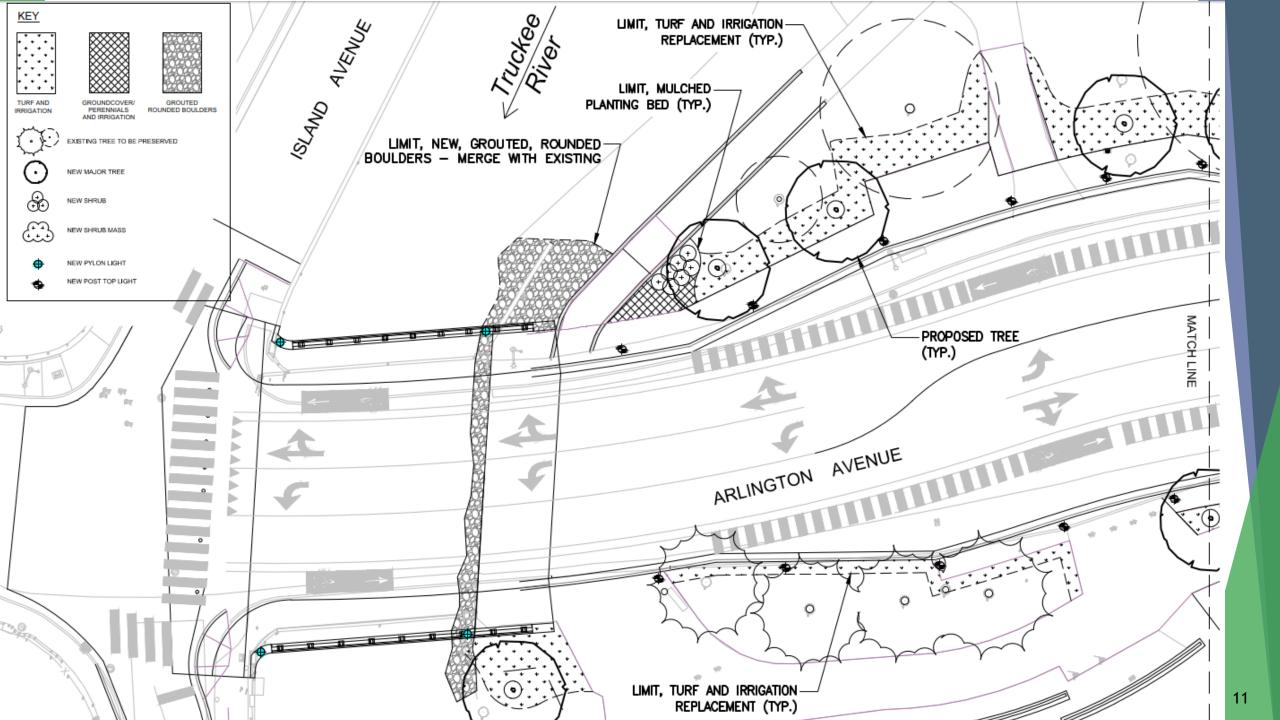
Pedestrian Scaled / Post Top Light Selux ELO Post Top, 3-stack option

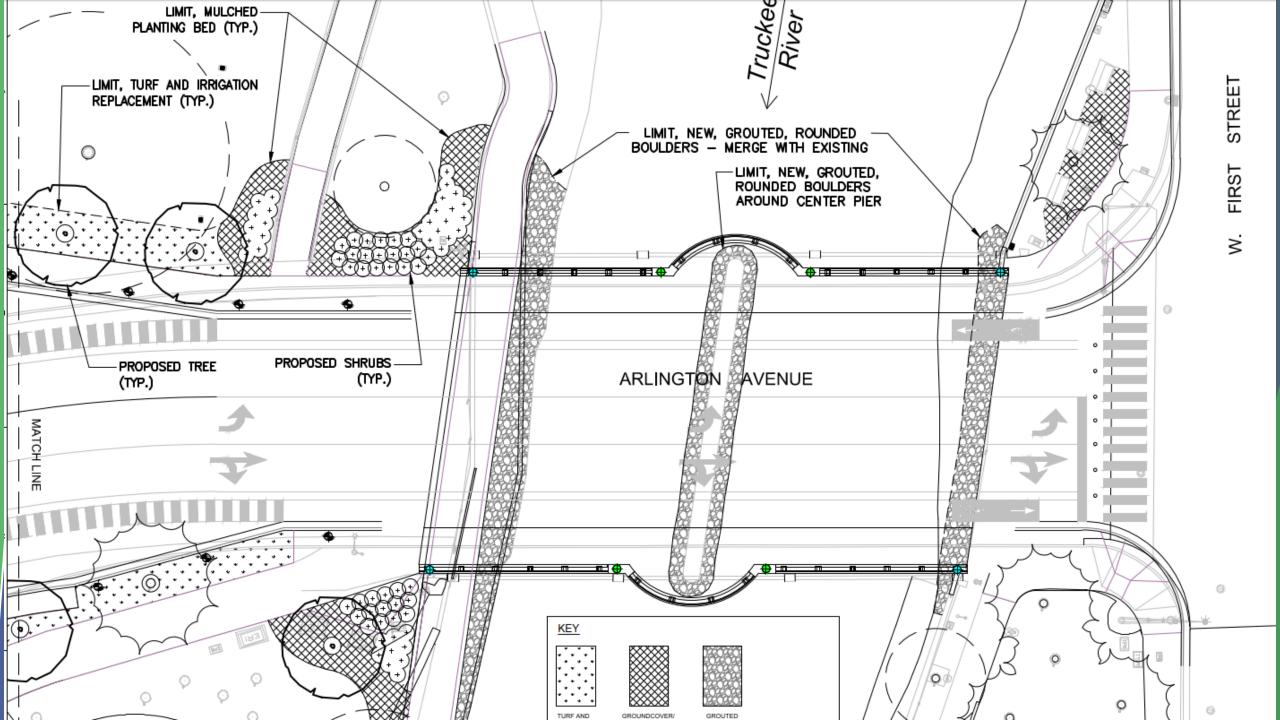
Fits into the custom column light housing for bridges

Use w/Fixture used in S. Virginia MidTown - but at 14' mounting height along Arlington ~ 30' spacing alternating with trees









Roadway Updates



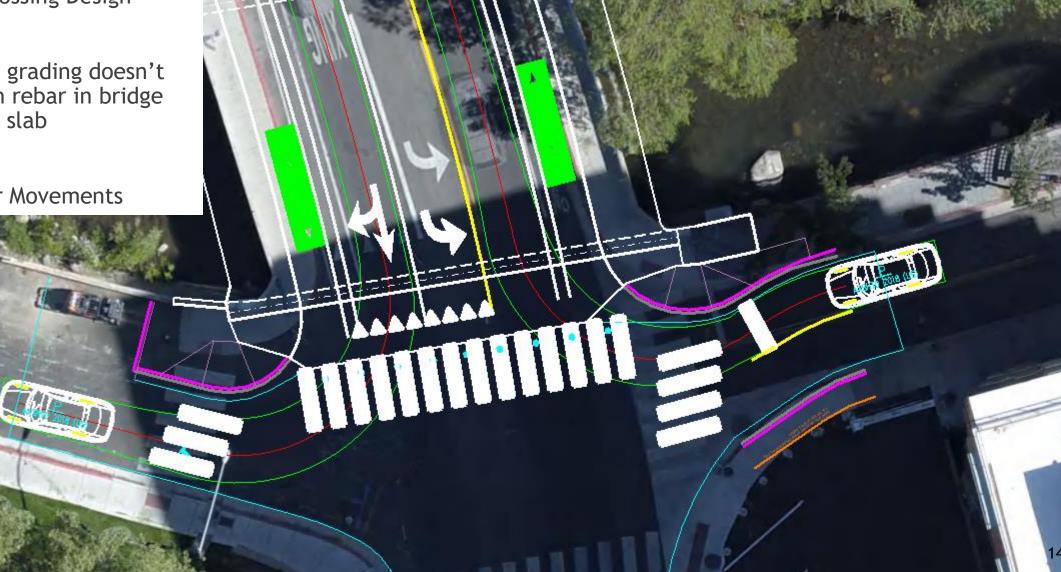




Island Avenue / Arlington Ave Pedestrian Crossing Design

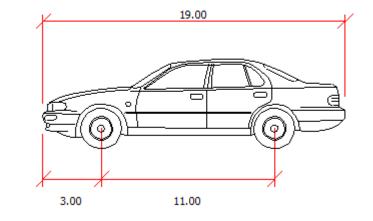
Bump Outs so grading doesn't interfere with rebar in bridge and approach slab

Passenger Car Movements



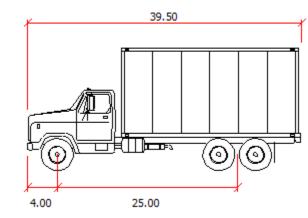
P

Units: feet



Create Compl... - -

Units: feet





Use Fence:

16

Roadway Design Updates 🔊 🔃 లో లో లో

Units: feet 30.00

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4.00

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20.00

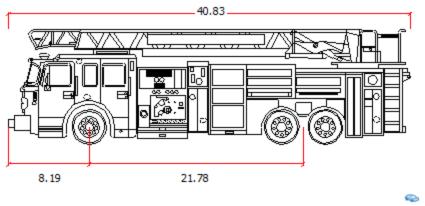
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anaumor7

Units: feet

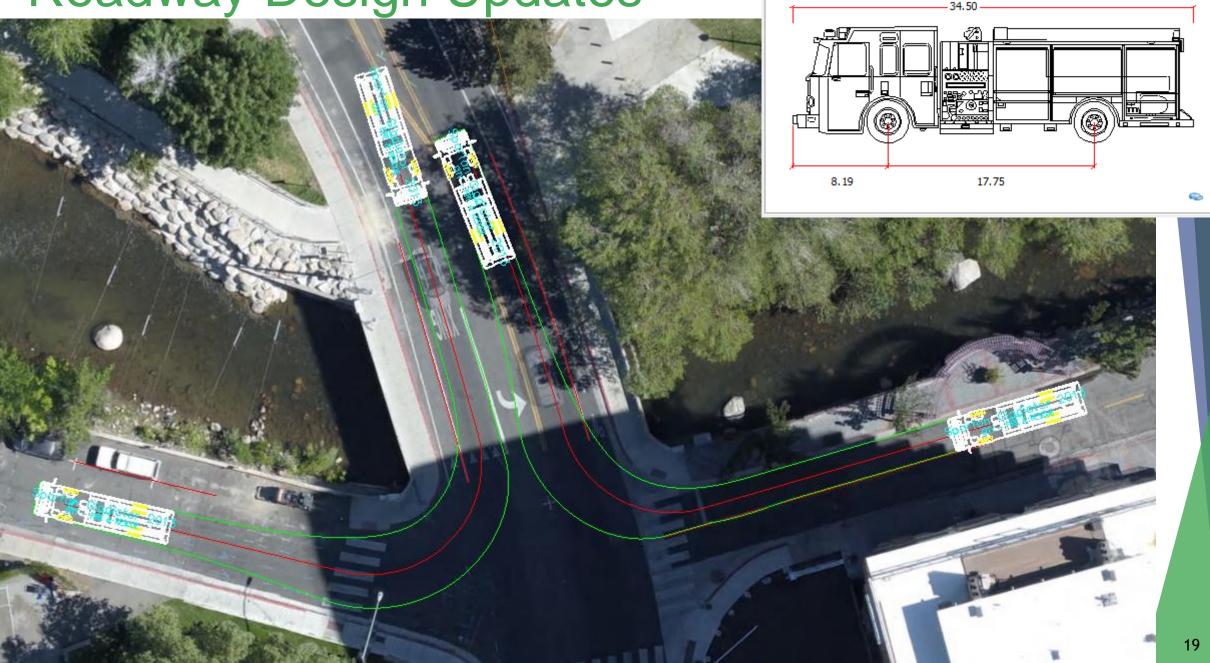


🚯 Pan ...

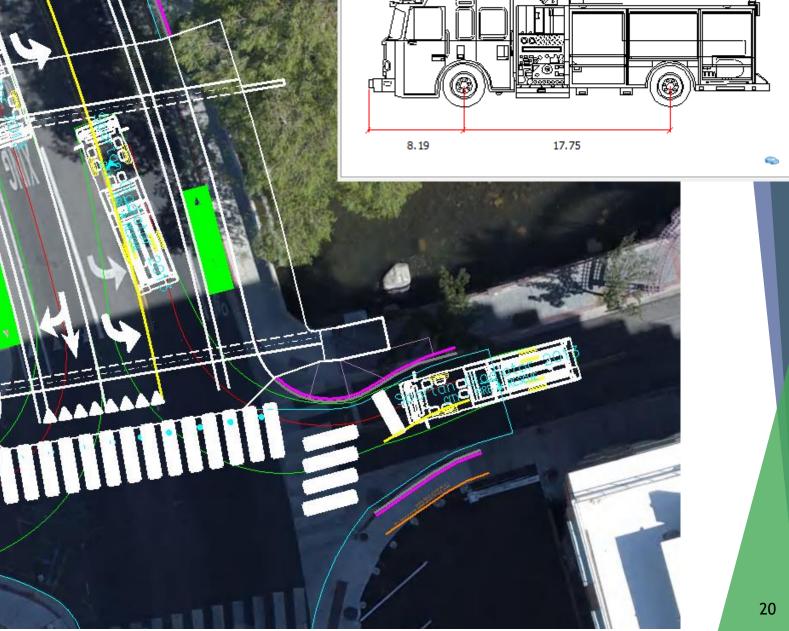
Move Camera

18

Units: feet

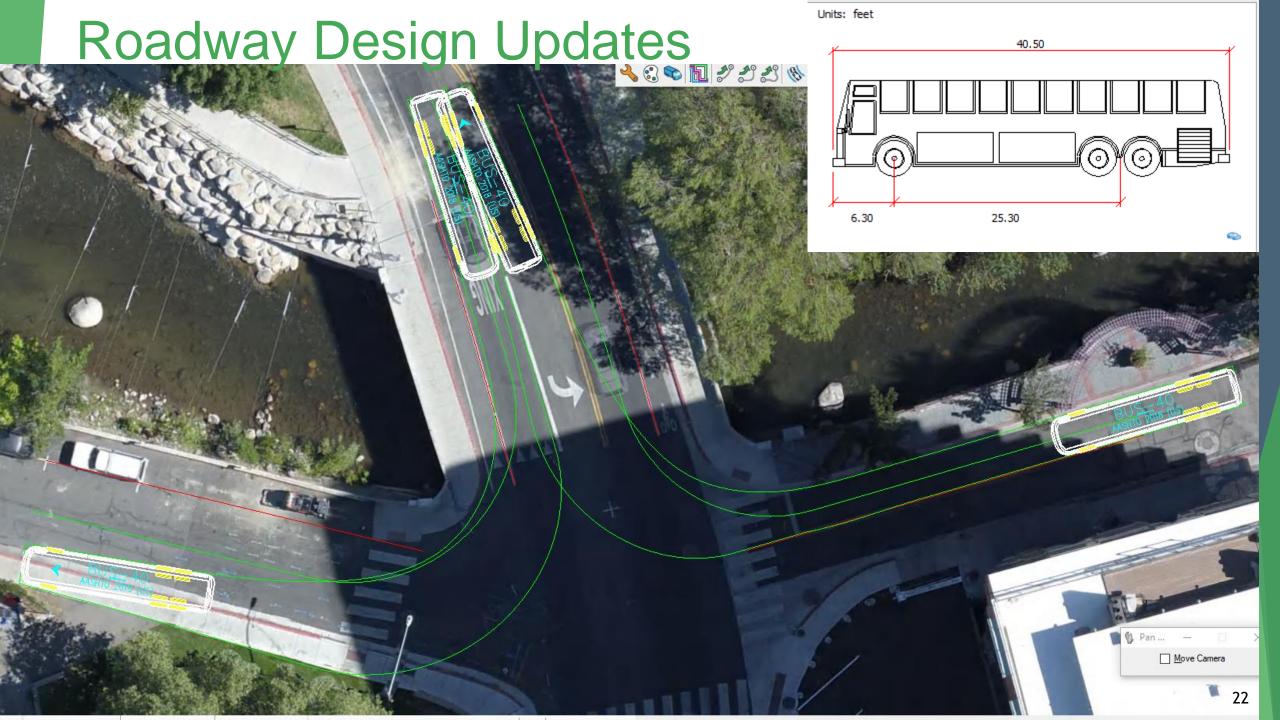


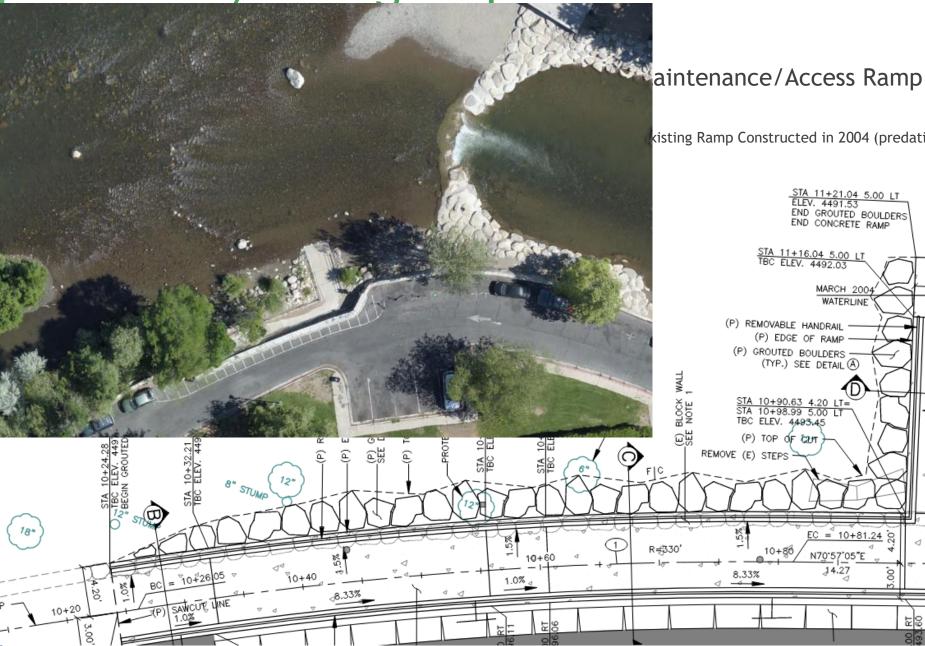
Units: feet 34.50 (7) 8.19 17.75





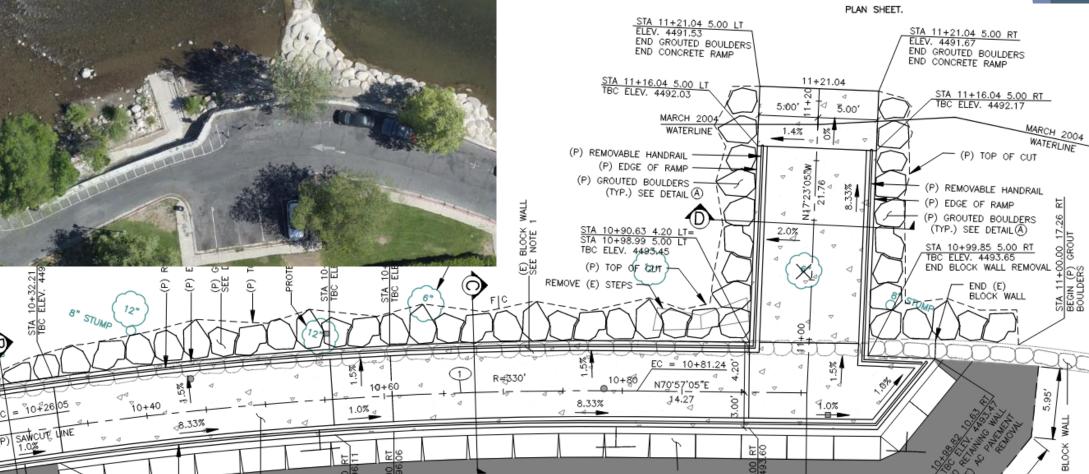
WASHOE প Home 🚟 Basemaps 🔍 Locations 🌐 Scene 2 8 **Regional Mapping System** 003-292-18 Layers and Tools -11 ∇ 612-293-19 Map Layers 008-381-40 012:291-03 012-292-04 Layers Legend List MIERSKE UND 012-301-012-292-05 Additional Layer Settings 👻 011-450-3 012-071-23 012-051-22 012-301-21 111 5 ayer Search 011-450-Q fire 07-542-15 05-134-20 012-371-21 006-222-22 **Fire Districts** 011-350-46 66-153-06 012-150-24 ✓ Fire Response 010-610-17 010-610-13 THE CONTRACTOR OF THE 012-150-0 1211340 006-250-54 ✓ Fire Stations Active or Recent Fires 580 301-01 Fire Risk Rating 010-480-02MAS Quick Map: Idlewild Park Reno ED 06-280-2 **Restricted Areas for Firearms** 010-560-01 Quick Map: 013-314-07 010-531-01 Fire Hazard 010-201-16 reset **Districts & Zones** 010-202-0 Facilities 013-333-18 FEMA - Flood Data 013-333-23 **Fire Perimeters** Imagery Planning & Development 013-343-04 it: 39.53562 lon: 119.84181 , s: 18056 013-453-56







(isting Ramp Constructed in 2004 (predating the 2010 ADA code)





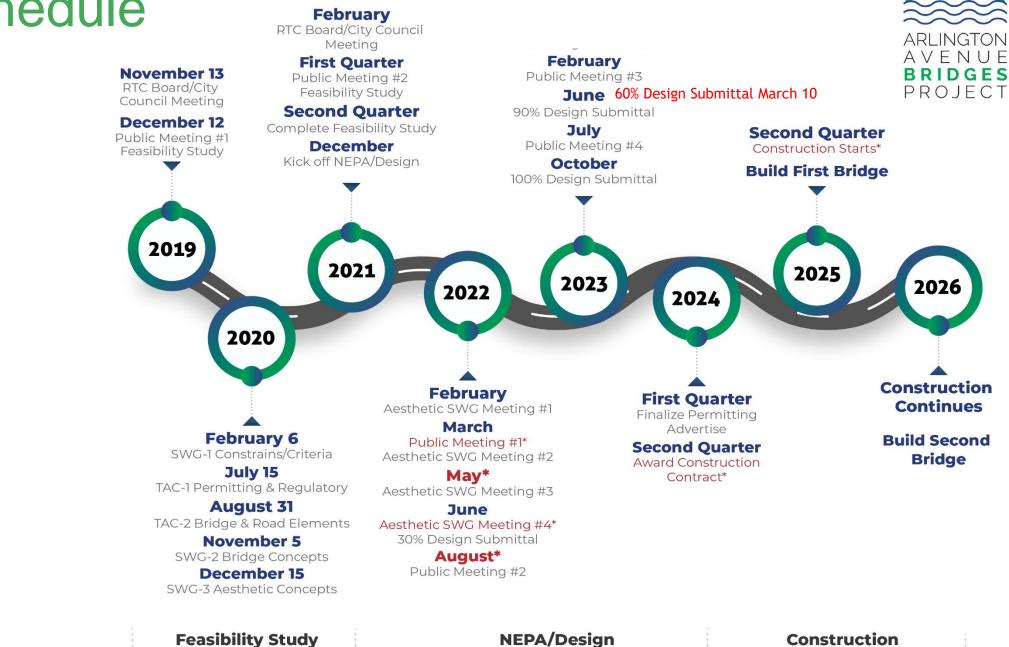




Roadway







* Schedule changes highlighted in red

Thank You for Participating!

jtortelli@rtcwashoe.com











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Extra Slides For Reference As Needed

Pylon / Custom Lighting Design Progress





North End

TMWA (Thomas Speer, Steve Volk)

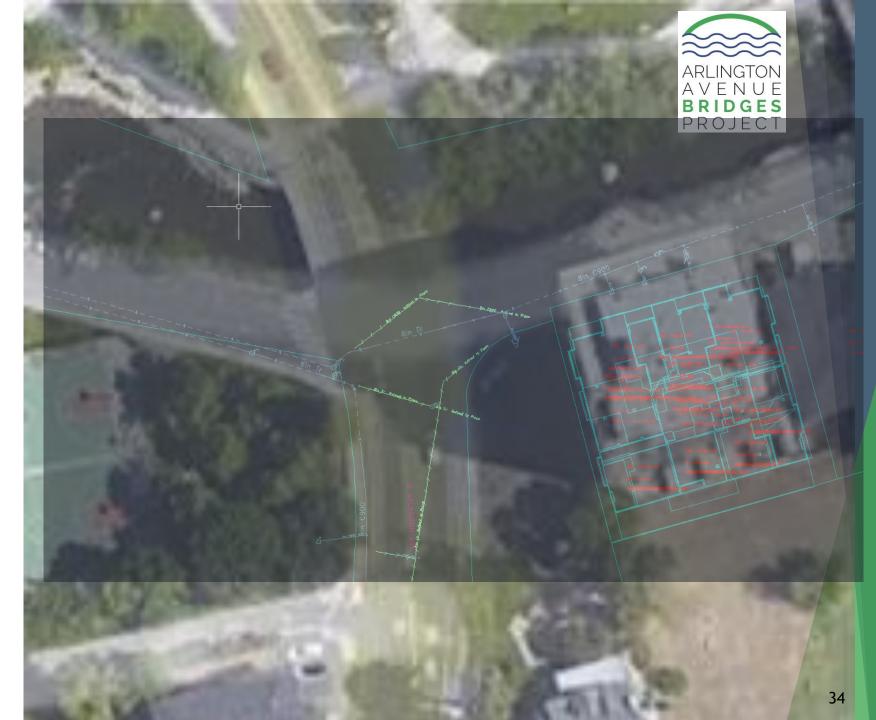
- 8-in Cast Iron within W. 1st Street intersection
- TMWA to replace/realign prior to construction; currently under design
- Protect in Place During Construction -Specification Requirements
- West of Intersection: 8-in Ductile Iron w/ 2-in HDPE lateral
- East of Intersection: 8-in Transite
- North of Intersection: 8-in Cast Iron along west side
- Assume Park Irrigation Line from this 2-in HDPE lateral



South End

TMWA

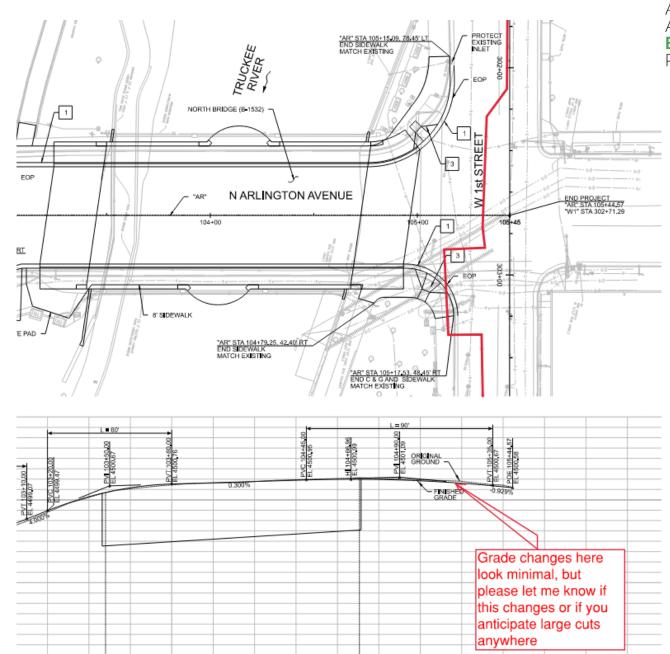
- 8-in C900 Retired in Place within Island Ave intersection -Contractor Allowed to Remove During Construction of South Abutment
- 8-in Ductile Iron Across Intersection
- West of Intersection- 2 Lines: 6-in Transite & 8-in C900
- East of Intersection- 1 Line: 8-in C900
- South of Intersection: 6-in Cast Iron and 6-in Transite Retired in Place
- Along Arlington: 6-in Cast Iron retired in place; 8-in C900 along western side





NVE - GAS (Becca Epstein)

- ✓ Existing along W. 1st St.
- Protect in Place w/ Excavation for Bridge Abutment -Requirements for specifications



North Bridge

NVE - ELECTRIC (Benjamin Eide-Hughes)

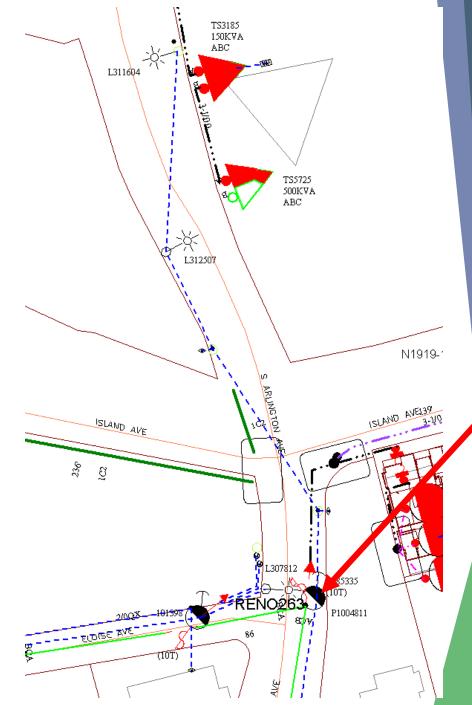
- Underground the OH-E
- Remove/Replace UG Primary from Vault to Transformer Through New Bridge (2-4" Conduits)
- Streetlights and Services in this area directly serve the customer - Apply for Formal **Electrical Project:** inforeno@nvenergy.com

NVE ELECTRIC COMMENTS: PROTECT N PLACE SEE COMMENTS BELOW FOR STREET LIGHT POLES AND OH SERVICE MITS OF REMOVAL OF CURB AND GUTTER WIRE AND PRIMARY CABLE. SAWCUT (NO DIRECT PAVEMENT REMOVE AND REPLACE BOLLARD. N-KIND PROTECT IN PLACE SL L311604 OR REMOVE/REPLACE FOR REMOVE OVERHEAD PEDISTRIAN WARNING SYSTEM CONSTRUCTION? SEE BRIDGE PLANS FOR BRIDGE REMOVALS REMOVE/REPLACE PRIMARY CABLE. REMOVE AND RESET BENCH GEND MITS OF REMOVAL OF COMPOSITE SURFACE (APPROX 24" DEPTH) MITS OF REMOVAL OF P.C.C.P. AND ASE (APPROX 16" DEPTH) ITS OF REMOVAL OF COMPOSITE IRFACE (DEPTH VARIES) (SIDEWALK AND PATHS) AR" STA 105+05.69, 76.58' LT OTECT IN PLACE FOR TRUCTION 'AR" STA 103+52.28, 31.51' LT END C & G REMOVAL C STRE "AR" STA 104+72,20, 31,64' L' BEGIN C & G REMOVAL st N ARLINGTON AVENUE F ≥ 104+00 105+00 102+08 Houses City of Reno Meter(s) 103+49.04. 27.16' RT TRUCKEE RIVES AR' STA 105 2-TRANSFORMERS: PROTECT IN PLACE NVE Transformers (2) Middle One is Empty - Can be REMOVE/REPLACE Relocate Within Bridge Girder JG PRIMARY FROM removed or repurposed VAULT 413649Z TO for Clearance Requirements TRANSFORMER TS3185 of High Voltage

NVE - ELECTRIC

- Underground the existing Overhead
- Pole P1004811 at end of Elosie Ave.





CHARTER (Jason Mortensen)

Confirmed Existing:

Existing Fiber and Coax - Across South Bridge, north along Arlington Avenue to Amphitheater No Existing Vault as shown at Island intersection (runs from riser pole at Eloise to Amphitheater)

No Existing facilities across north bridge

Design:

2-2" Conduits requested across both bridges and along Arlington



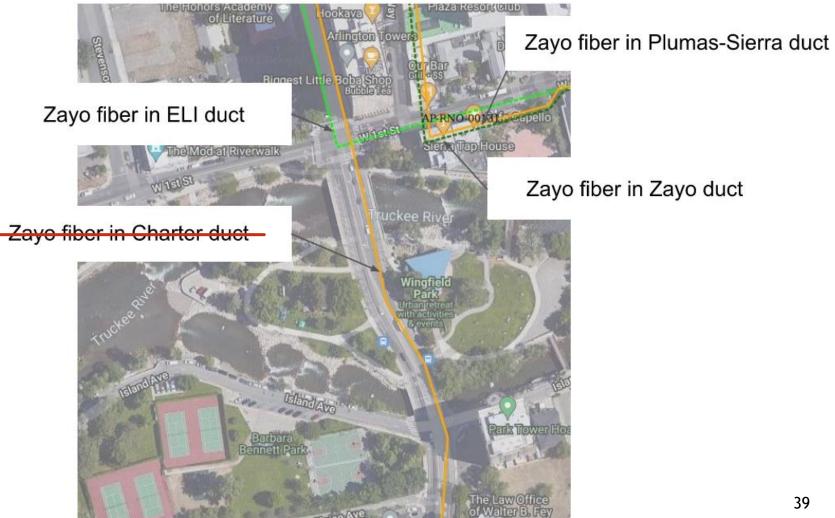


ZAYO (Gary Getchell, Robert Alford)

* No Zayo Fiber in Charter Duct across South Bridge to Amphitheater

* Zayo would like to have conduit across both bridges and along Arlington between bridges; 2-2" min





AT&T (Steve Lewis, Clifford Cooper)

Confirmed Existing:

Bank of 9 conduits across both north and south bridges Design:

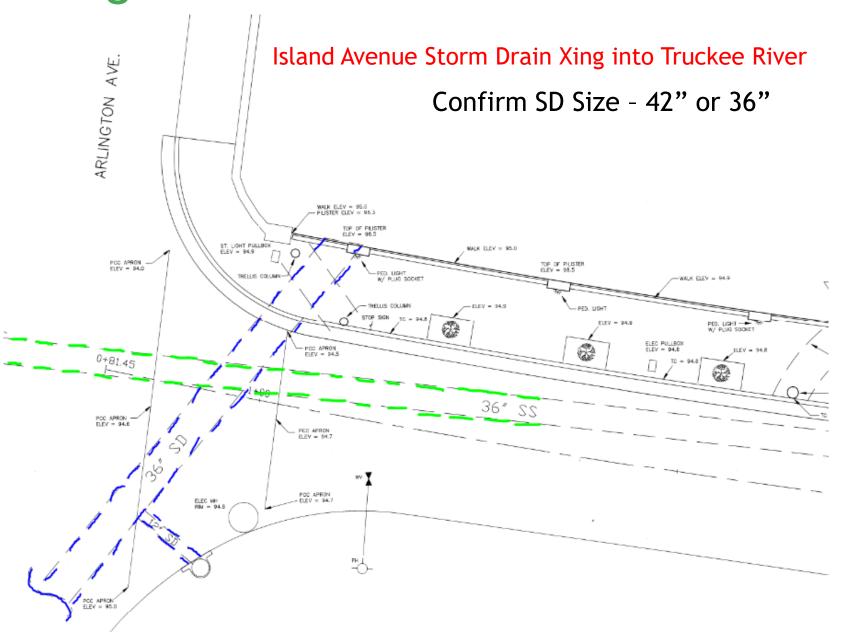
7-4" Conduits requested across both bridges and along Arlington





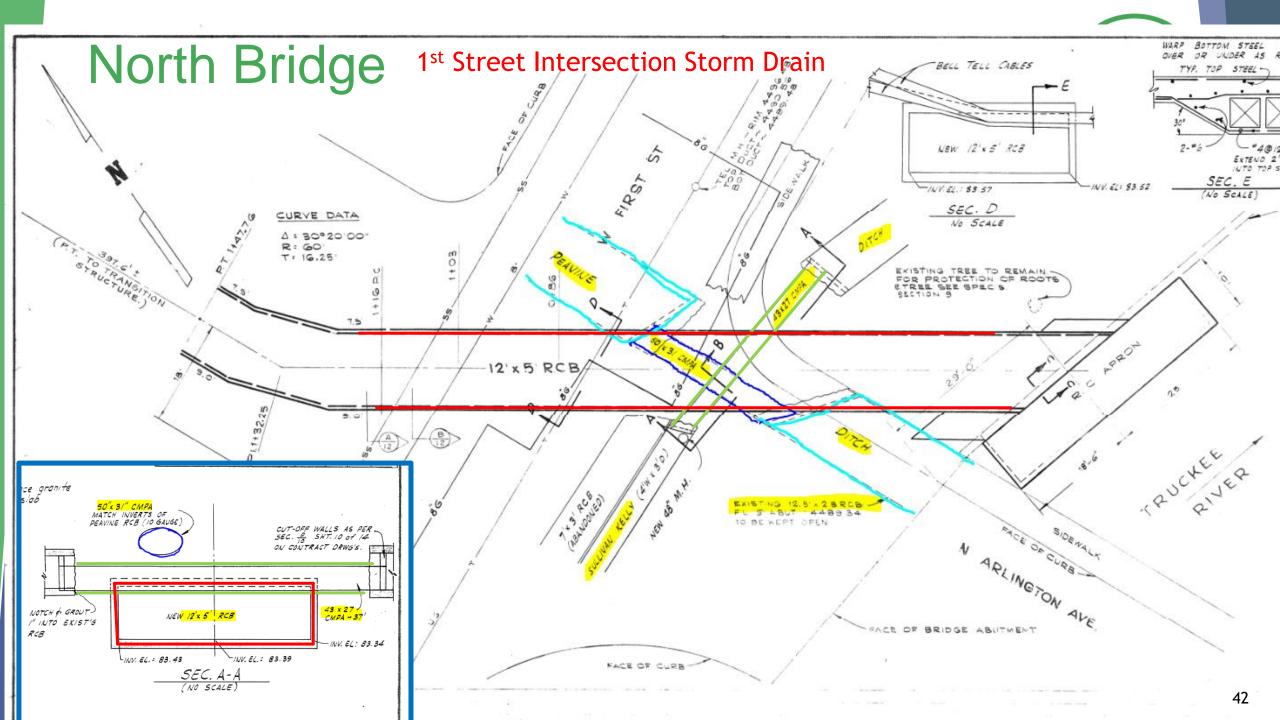


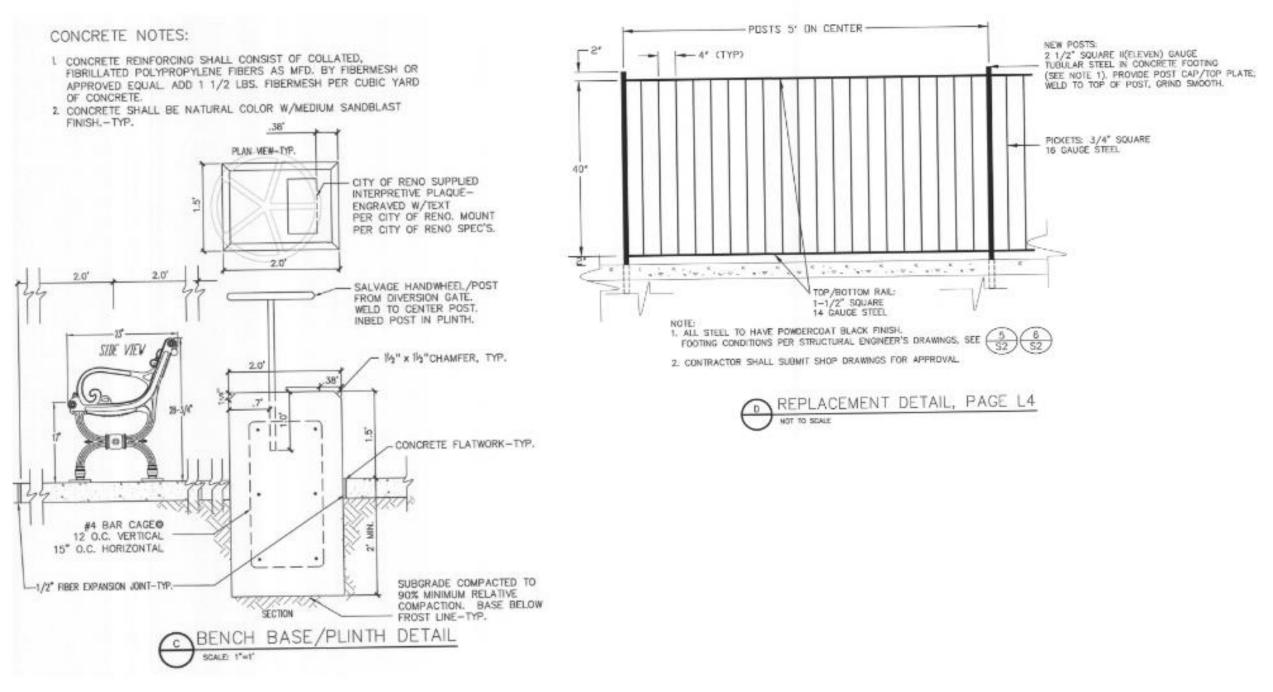
South Bridge / Floodwall



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North Bridge

Path Under North Bridge - Existing Trench Drain





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- North Bridge
 - Path Under North Bridge Existing Trench Drain Outlet Pipe with Flap



