



EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION
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Mosquito Road Bridge Replacement Project
Department of Transportation Construction Update #6
January 8, 2024

The Mosquito Road Bridge Replacement Project construction has been underway since July 2022. This is the sixth quarterly construction update for the community:

August 2023

- Completed rock slope armoring at DS-3 inlet.
- Continued embankment fill at DS-3 to Abutment 1 approach.
- Began construction of Abutment 1 footing and stem.
- Began structure backfill and embankment fill at Abutment 1 for retaining wall construction.
- Began Pier 2 South temporary access soil nail wall.
- Continued Pier 2 structure excavation / ground anchor & soil nail installations.
- Continued Pier 3 hard rock structure excavation / ground anchor & soil nail installations.
- Completed Abutment 4 retaining wall construction, structure backfill, and roadway subgrade fill.
- Completed 10-Week full closure of Mosquito Road at the gates and opened road closure by end of day on August 6, 2023.
Road closure work completed:
 - Completed Rock Slope Protection (RSP) of north embankments.
 - Completed concrete and rock lined drainage ditches adjacent to north Mosquito Road.
 - Completed road patching at drainage ditch.
 - Completed metal beam guardrail adjacent to Mosquito Road north.
 - Completed miscellaneous roadway cleanup and safety measures.
- Continue to monitor Pier 2 & 3 inclinometers (no slope movement).
- Continue supplying north Project with batch plant concrete.
- Continue intermittent flagging and traffic control for equipment and materials deliveries.
- Continue receiving Project equipment and materials.
- Continue inspection and maintenance of storm water erosion control measures.



8/08/23 – North Guardrail, Ditches, RSP Slopes Completed



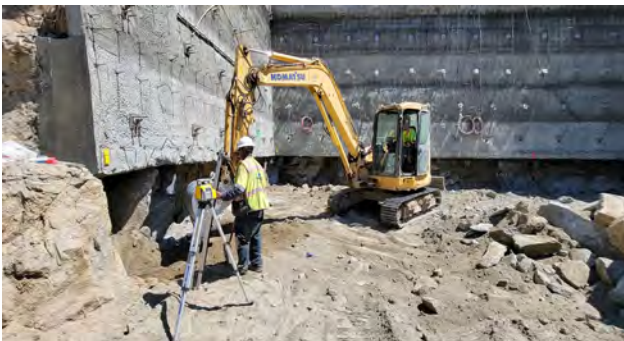
8/17/23 – Abutment 1 Footing Concrete Placement



8/17/23 – South Pier 2 Trestle Looking North



8/17/23 – P2 Trestle Access Temp. Soil Nail Shotcrete Lift 1



8/17/23 – Pier 2 Structure Excavation – Last Lift



8/31/23 – Pier 3 Hard Rock Structure Excavation – Last Lift



8/31/23 – Abutment 4 RW 4 Completed & Structure Backfill



8/31/23 – Abutment 4 RW 4 Completed & Structure Backfill

September 2023

- Continued embankment fill at DS-3 to Abutment 1 approach.
- Completed construction of Abutment 1 footing and stem.
- Completed structure backfill and embankment fill at Abutment 1 for retaining wall construction.
- Began Abutment 1 retaining walls construction.
- Began grading for construction of access road to Pier 2 (P2) trestle.
- Continued Pier 2 South temporary access soil nail wall construction.

- Completed Pier 2 structure excavation / ground anchor & soil nail installations / final shotcrete.
- Began Pier 2 footing pad preparation.
- Began structure backfill at east Pier 2 retaining wall.
- Completed Pier 3 hard rock structure excavation / ground anchor & soil nail installations / final shotcrete.
- Began installation of rock lined drainage ditch above east side of Pier 3 retaining wall.
- Completed Abutment 4 approach subgrade and base rock placement and compaction.
- Installed RSP slope armoring at BLM staging embankment.
- Continue to monitor Pier 2 & 3 inclinometers (no slope movement).
- Continue supplying north Project with batch plant concrete.
- Continue intermittent flagging and traffic control for equipment and materials deliveries.
- Continue receiving Project equipment and materials.
- Continue inspection and maintenance of storm water erosion control measures.



9/01/23 – Abutment 1 Footing & Stem Concrete Placed



9/01/23 – Progress P2 Trestle Access Temp. Soil Nail Wall



9/08/23 – Abutment 1 Approach Fill, P2 Access Road



9/08/23 – Abutment 1 Structure Backfill



9/18/23 – Base Grade Abutment 4 Approach



9/18/23 – RSP Slope Armoring at BLM Embankment



9/27/23 – Abutment 1 Retaining Walls Formed



9/27/23 – Progress P2 Trestle Access Temp. Soil Nail Wall



9/27/23 – Pier 2 Shotcrete Completed / Start Footing Prep.



9/27/23 – Pier 3 Shotcrete Completed / Start Footing Prep.

October 2023

- Completed Abutment 1 retaining walls construction and structure backfill.
- Completed Pier 2 trestle access temporary soil nail wall.
- Completed Pier 2 trestle access road paving.
- Began rock lined ditch excavation above east Pier 2 retaining wall.
- Began drilling and installing Pier 2 CIDH piles (approx. 3 of 35 total installed by end of month).
- Began drilling and installing Pier 3 CIDH piles (approx. 6 of 35 total installed by end of month).
- Installed concrete lined ditch above north side of Pier 3 retaining wall.
- Constructed Abutment 4 east wingwall.
- Held State Waterboard inspection walkthrough for erosion control measures progress.
- Began erosion control blanket and hydroseed installation north Project locations.
- Continued rock lined ditch installations site wide.
- Continued site inspections for erosion control compliance.
- Continued maintenance of storm water erosion control measures site wide.
- Continued site wide roadway sweeping as needed.
- Monitored Pier 2 & 3 inclinometers – (no slope movement).
- Continued deliveries of Project concrete, rebar, and other materials.
- Continued Project batch plant concrete supply to north CIDH pile operation.



10/02/23 – Fabricate First Pier 3 CIDH Rebar Cage



10/02/23 – Start Drilling First Pier 3 CIDH Pile



10/02/23 – Pier 2 Ready for CIDH Piles Installation



10/02/23 – Pier 2 East Rock Lined Ditch Excavation



10/02/23 – Mobilize Crane to Pier 2 Trestle & Assemble



10/02/23 – Unload Pier 2 Crane Boom Sections



10/13/23 – Access Road Paved and Heavy Use



10/13/23 – Pier 3 First CIDH Pile Concrete Placement



10/19/23 – Pier 2 CIDH Rebar Cage Fabrication



10/19/23 – Pier 2 CIDH Pile Drilling



10/24/23 – Abutment 4 East Wingwall Construction



10/26/23 – Pier 2 Trestle Access Hydroseed #1

November 2023

- Continued progress drilling and installing Pier 2 CIDH piles (approx. 15 of 35 total installed by end of month).
- Continued progress drilling and installing Pier 2 soldier piles (approx. 2 of 18 total installed by end of month).
- Continued progress drilling and installing Pier 3 CIDH piles (approx. 19 of 35 total installed by end of month).
- Continued progress drilling and installing Pier 3 soldier piles (approx. 2 of 12 total installed by end of month).
- Completed erosion control blanket and hydroseed installation site wide.
- Completed rock lined ditch installation site wide.
- Completed rock slope protection armoring at Abutment 1.
- Continued site inspections for erosion control compliance.
- Continued maintenance of storm water erosion control measures site wide.
- Continued site wide roadway sweeping as needed.
- Monitored Pier 2 & 3 inclinometers – (no slope movement).
- Continued deliveries of Project concrete, rebar, and other materials.
- Continued Project batch plant concrete supply to north CIDH pile and Soldier Pile operations.



11/17/23 – Abutment 1 Slope Erosion Control Installation



11/17/23 – DS-3 Inlet RSP Armoring & EC Blanket



11/17/23 – Paved Pier 2 Access, Rock Lined Ditches



11/17/23 – Erosion Control Under Pier 2 Trestle



11/17/23 – Trestle Access Blanket & Hydroseed #2



11/17/23 – Pier 2 Rocked Access & Ditch, Silt Fence



11/17/23 – Abutment 1 Slope Protection & Rock Ditches



11/17/23 – Abutment 1 Looking North



11/17/23 – Pier 3 Soldier Pile Wall Pile Drilling



11/27/23 – Pier 3 Set CIDH Pile Cage

December 2023

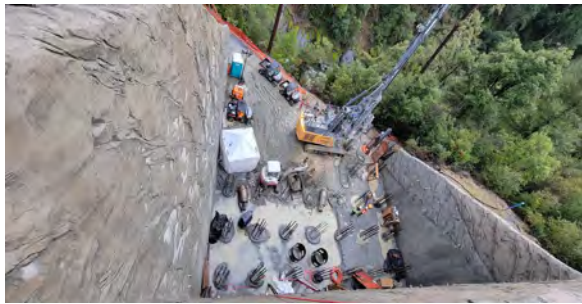
- Continued progress drilling and installing Pier 2 CIDH piles (approx. 21 of 35 total installed by end of month).
- Continued progress drilling and installing Pier 2 soldier piles (approx. 9 of 18 total installed by end of month).
- Began installation of lagging for Pier 2 soldier pile retaining wall.
- Began structure backfill for Pier 2 soldier pile retaining wall.
- Began installation of Drainage System #7 (DS-7) at Pier 2.
- Continued progress drilling and installing Pier 3 CIDH pile (approx. 25 of 35 total installed by end of month).
- Continued progress drilling and installing Pier 3 soldier piles (approx. 9 of 12 total installed by end of month).
- Began installation of lagging for Pier 3 soldier pile retaining wall.
- Began structure backfill for Pier 3 soldier pile retaining wall.
- Continued site inspections for erosion control compliance.
- Continued maintenance of storm water erosion control measures site wide.
- Continued site wide roadway sweeping as needed.
- Monitored Pier 2 & 3 inclinometers – (no slope movement).
- Continued deliveries of Project concrete, rebar, and other materials.
- Continued Project batch plant concrete supply to north CIDH pile and Soldier Pile operations.



12/20/23 – Pier 2 CIDH Piles 21 of 35 Piles Completed



12/20/23 – Pier 2 Soldier Piles & DS-7 Installation



12/20/23 – Pier 3 CIDH Piles 25 of 35 Piles Completed



12/20/23 – Clean River Below Jobsite – No Erosion

January - March 2024 Anticipated Work

- 313 of 700 (44.7%) Project working days complete through the update date.
- Complete installation of Pier 2 CIDH piles.
- Complete installation of Pier 2 Soldier piles.
- Complete installation of Pier 2 Soldier Pile retaining wall lagging and structure backfill.
- Complete installation of Pier 2 footing pile cap rebar, forms, bottom of column rebar, temporary support structure, and mass concrete cooling preparation.
- Place 1,100 cubic yards of concrete for Pier 2 footing pile cap.
- “Trip to Green” Traffic Control on Highway 50 for one night in mid-March for placement of 1,100 cubic yards of concrete for Pier 2 footing pile cap.
- Begin Pier 2 Column Construction.
- Complete installation of Pier 3 CIDH piles.
- Complete installation of Pier 3 Soldier piles.
- Complete installation of Pier 3 Soldier Pile retaining wall lagging and structure backfill.
- Complete installation of Pier 3 footing pile cap rebar, forms, bottom of column rebar, temporary support structure, and mass concrete cooling preparation.
- Place 1,100 cubic yards of concrete for Pier 3 footing pile cap.
- Begin Pier 3 column construction.
- Continue progress of drainage ditch installations at Pier 2 & 3 retaining walls.
- Continue to monitor Pier 2 & 3 inclinometers.
- Continue supplying north Project with batch plant concrete.
- Continue intermittent flagging and traffic control for equipment and materials deliveries.
- Continue receiving Project equipment and materials.
- Continue inspection and maintenance of storm water erosion control measures.
- Continue water quality sampling and testing of Project runoff.
- Intermittent weekend, night, and/or school break road closures for large concrete pours or other operations as needed.



12/20/23 — Clean American River Below Project



1/03/24 — DS-3/Abutment 1 Approach Erosion Control



1/03/24 — Abutment 1 Erosion Control Measures



1/03/24 — Pier 2 Access Erosion Control Measures



1/03/24 — Pier 3 Trestle Erosion Control Measures



1/03/24 — Abutment 4 Erosion Control Measures



1/03/24 — Batch Plant Erosion Control Measures



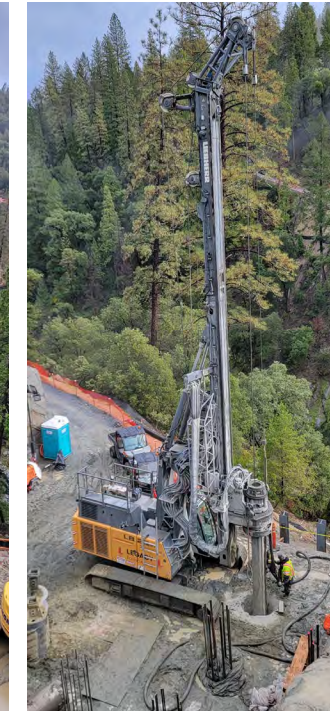
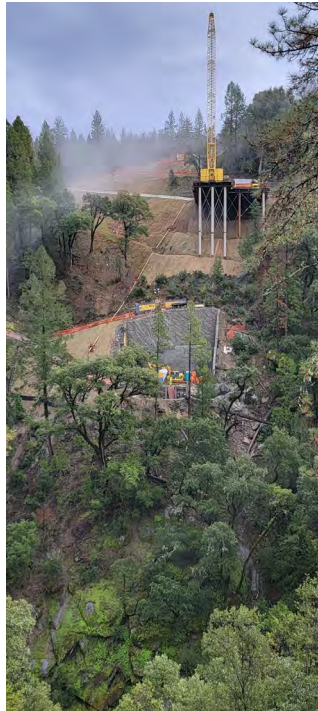
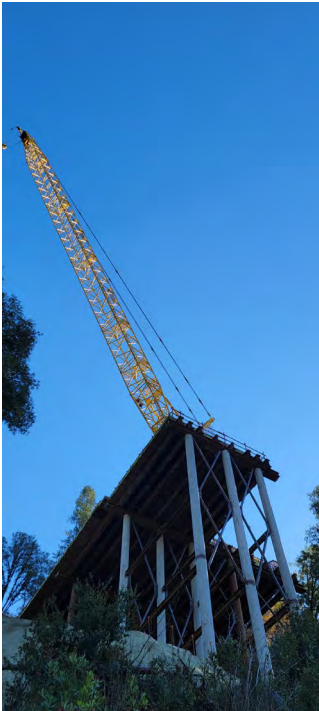
1/03/24 — Pier 2 Commence Drilling 13 Remaining Piles



1/04/24 — Pier 2 Load & Haul Out Drill Spoils



1/05/24 — Pier 3 Drilling & Placing CIDH Pile Rebar



North Side

BLM yard entrance

BLM laydown yard

Abutment 4

Pier 3 trestle

Pier 3

Pier 3 access road



South Side



South side entrance this way off Mosquito road

Abutment #01

Pier 2 access road

Pier 2

Pier 2 trestle

Batch Plant



Trail gulch road
entrance off rock
creek road

Concrete batch
plant

Batch plant
entrance

Finnon lake dam

Trail gulch road