U.S. Department of the Interior
Bureau of Reclamation
Provo Area Office
Provo, Utah

FINDING OF NO SIGNIFICANT IMPACT

UDOT US-89 Farmington to I-84 Project
Davis County, Utah

FONSI-17-004

Recommended by:

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Date
I. Introduction
In compliance with the National Environmental Policy Act of 1969, as amended (NEPA), the Bureau of Reclamation, Provo Area Office has conducted a review of the Utah Department of Transportation’s (UDOT) State Environmental Study (SES) and SES Re-evaluation (SESR) (collectively “Studies”) for the UDOT U.S. 89 Farmington to I-84 Project (Project) to determine adequacy for adoption as a NEPA document under 40 CFR 1506.3, 43 CFR 46.320, and Reclamation policy. The SES evaluated UDOT’s initial proposal to construct interchanges, overpasses, and frontage roads such that U.S. 89 would be a grade-separated, six lane freeway from Farmington to I-84 in Davis County, Utah, with U.S. 89 going over each interchange. UDOT revised the proposal to have U.S. 89 go under each interchange based on concerns from the public regarding visual and noise aspects of the proposed highway. This prompted the SESR, which evaluated the impacts of the design changes on resources initially studied in the SES.

Transportation projects are graded using a scale called level of service (LOS), which ranges from LOS A representing the best operating conditions (delay and congestion) to LOS F representing the worst operating conditions. LOS E and LOS F are considered failing conditions. Traffic modeling indicates that, by 2040, U.S. 89 would operate at LOS F if no improvements were made. U.S. 89 currently operates at LOS E, except for the small section between South Weber Drive and S.R. 193. The UDOT U.S. 89 project would allow unimpeded traffic flow along U.S. 89, and U.S. 89 would operate at a level of service of LOS C or LOS D in 2040. The purpose of the Project is to:

- Improve regional and local mobility
- Provide enhanced system linkage between I-15 and I-84 on U.S. 89
- Address current and future travel demand on US-89
- Improve safety

Constructing the proposed highway would impact easements, fee title lands and facilities that are owned by the United States and managed by Reclamation, particularly the Davis Aqueduct and some of its irrigation laterals. By agreement with Reclamation, the aqueduct and laterals are operated and maintained by Weber Basin Water Conservancy District (WBWCD). The Davis Aqueduct and multiple irrigation laterals would be adversely impacted by structures, additional fill, or roadway excavations if the Project does not adhere to the Davis Aqueduct Protection Criteria (Protection Criteria). To adhere to the Protection Criteria, UDOT proposes to 1) replace the pipelines for eight irrigation laterals, with some easements being exchanged when laterals would be relocated, and 2) protect-in-place three sections of the Davis Aqueduct. UDOT would also like to install valves on some of the irrigation laterals to facilitate their replacement or relocation. The federal action (Proposed Action) evaluated is whether Reclamation should authorize UDOT’s proposed changes to Reclamation’s easements, fee title lands and facilities. The remainder of the Project not directly affecting Reclamation are also evaluated in the Studies and were considered cumulatively with the Proposed Action.

If adequate, the Studies will be adopted as an Environmental Assessment as defined in the NEPA regulations (40 CFR 1508.9 and 43 CFR 46 Subpart D) and a FONSI issued with a federal decision.

II. Alternatives
Two alternatives were analyzed: the No Action and the Proposed Action.
No Action
Under the No Action Alternative, Reclamation would not authorize UDOT to make the proposed changes to Reclamation facilities. UDOT would need to adjust their overall proposal for the Project accordingly.

Proposed Action
With the Proposed Action (summarized in Table 1), Reclamation would authorize UDOT to 1) replace and/or relocate eight irrigation laterals, 2) install up to 6 valves on each irrigation lateral and 3) protect in place three segments of the Davis Aqueduct.

Table 1
Summary of Proposed Changes to the Davis Aqueduct and Irrigation Laterals

<table>
<thead>
<tr>
<th>Reclamation Facility</th>
<th>Proposed Action</th>
<th>Area and Map Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Davis Aqueduct</td>
<td>Protect in place where UDOT U.S. 89 project would occur over Davis Aqueduct at S.R. 193, Antelope Drive, and Oak Hills Drive.</td>
<td>Area 2, Figure 3, Area 4, Figure 5, Area 6, Figure 7</td>
</tr>
<tr>
<td>Irrigation Lateral 1</td>
<td>Remove and replace existing 10-inch pipe in existing easement in new steel casing for crossing of U.S. 89.</td>
<td>Area 1, Figure 2</td>
</tr>
<tr>
<td>Irrigation Lateral 2</td>
<td>Remove existing 10-inch pipe. Replace with 12-inch pipe in new alignment and new easement. New 12-inch pipe would have steel casing for crossing of U.S. 89. New drain pipe would be installed on the west side of U.S. 89 and Hobbs Creek Road at about 2800 North. The new drain pipe would connect to the new 12-inch Irrigation Lateral 2 and drain south. This lateral includes one valve and one drain.</td>
<td>Area 3, Figure 4</td>
</tr>
<tr>
<td>Irrigation Lateral 3</td>
<td>Remove and replace existing 10-inch pipe in existing easement in new steel casing for crossing of U.S. 89. Replace existing 4-inch pipe on west side of U.S. 89 with a new 6-inch pipe in new alignment and new easement. This lateral includes three valves and no drain.</td>
<td>Area 3, Figure 4</td>
</tr>
<tr>
<td>Irrigation Lateral 4</td>
<td>Replace existing 10-inch pipe with a new 10-inch pipe in new alignment and new easement. New 10-inch pipe would have steel casing for crossing of U.S. 89. This lateral includes one valve and no drain.</td>
<td>Area 4, Figure 5</td>
</tr>
<tr>
<td>Irrigation Lateral 5</td>
<td>Remove existing pipes on west side of U.S. 89. Replace with 10-inch pipe in new alignment and new easement on west side of Hobbs Creek Drive. This lateral includes six valves and one drain.</td>
<td>Area 4, Figure 5</td>
</tr>
<tr>
<td>Irrigation Lateral 6</td>
<td>Remove and replace existing 21-inch pipe with a 24-inch pipe in existing easement in new steel casing for crossing of U.S. 89. Replace existing north-to-south 15-inch pipe on west side of U.S. 89 with a new 24-inch pipe in new alignment and new easement. Replace existing east-to-west 15-inch pipe on west side of U.S. 89 in new 16-inch pipe in existing easement. This lateral includes one valve and one drain.</td>
<td>Area 5, Figure 6</td>
</tr>
<tr>
<td>Irrigation Lateral 7</td>
<td>Remove existing 6-inch pipe and replace with new 6-inch pipe in new alignment and new easement on east side of the east frontage road. This lateral includes one valve and one drain.</td>
<td>Area 6, Figure 7</td>
</tr>
</tbody>
</table>
The Davis Aqueduct irrigation laterals would be impacted by UDOT’s U.S. 89 project in seven areas. The work is described by proposed action area (see Figure 1). The attached figures provide detailed maps for each of the seven areas.

III. Summary of Impacts
A total of 20 resources were reviewed by Reclamation’s resource specialists. Ten resources were eliminated from full consideration: geology and soils, paleontological resources, wilderness and wild and scenic rivers, hydrology, water quality, prime and unique farmlands, threatened and endangered species, fish and wildlife resources, recreation, and water rights. The remaining 10 resources were analyzed in more detail. This FONSI adopts those analyses in full, with the corresponding determinations.

1. Visual Resources—No effect.
2. Cultural Resources—No adverse effect to Reclamation facilities. Overall project has adverse effect to historic properties mitigated with Memorandum of Understanding with the Utah State Historic Preservation Office.
5. Wetlands, Riparian, Noxious Weeds, and Existing Vegetation—Adverse effect to wetlands and/or other Waters of the U.S. Mitigation under Clean Water Act overseen by the U.S. Army Corps of Engineers.
6. Socioeconomics—No effect.
8. Floodplains—No effect.
9. Indian Trust Assets—No effect.
10. Environmental Justice—No effect.

IV. Finding of No Significant Impact
Based on a review of the Studies and their supporting documents, implementing the Proposed Action will not significantly affect the quality of the human or natural environment, individually or cumulatively with other actions in the area. No environmental effects meet the definition of significance in context or intensity as defined in 40 CFR 1508.27. Consequently, an Environmental Impact Statement is not required for this Proposed Action.
V. Decision
It is Reclamation’s decision, therefore, to authorize UDOT to implement the Proposed Action as described herein and the supplementary information attached hereto.
Irrigation Lateral 1
1. Remove and replace existing 10-inch Reclamation irrigation lateral.
2. Construct new steel casing for Reclamation irrigation lateral.
Davis Aqueduct
Protect-in-place existing aqueduct, air vent and wasteway structure, 48-inch wasteway pipe, and 60-inch influent pipe.
Irrigation Lateral 2
1. Remove or abandon existing 10-inch Reclamation irrigation lateral.

Irrigation Lateral 2
2. Construct new steel casing, 12-inch Reclamation irrigation lateral, and drain pipe. This lateral includes 1 valve and 1 drain.

Irrigation Lateral 3
2. Remove existing 4-inch Reclamation irrigation under proposed noise wall and relocate under Hobbs Creek Dr and replace with 6-inch irrigation lateral.

Irrigation Lateral 3
1. Remove and replace existing 10-inch Reclamation irrigation lateral under U.S. 89 and construct new steel casing. This lateral includes 3 valves and no drain.
Irrigation Lateral 5
1. Construct and realign new 10-inch Reclamation irrigation lateral and easement. This lateral includes 6 valves and 1 drain.

Irrigation Lateral 5
2. Remove or abandon existing Reclamation irrigation laterals and easement.

Davis Aqueduct Protect-in-Place
1. Protect-in-place existing aqueduct and bridging.

Irrigation Lateral 4
1. Remove or abandon existing 10-inch Reclamation irrigation lateral and easement.

Irrigation Lateral 4
2. Construct new 10-inch Reclamation irrigation lateral in new easement. This lateral includes 1 valve and no drain.

Irrigation Lateral 4
3. Construct new steel casing.

DAVIS AQUEDUCT IRRIGATION LATERALS REPLACEMENT
PROPOSED ACTION AREAS
AREA 4 OF 7

DAVIS AQUEDUCT IRRIGATION LATERALS REPLACEMENT DRAFT ENVIRONMENTAL ASSESSMENT
Irrigation Lateral 6
1. Replace existing 15-inch irrigation lateral with 15-inch minimum diameter pipe in existing easement. This lateral includes 1 valve and 1 drain.

Irrigation Lateral 6
2. Construct new 24-inch Reclamation irrigation lateral in new easement.

Irrigation Lateral 6
3. Remove or abandon existing 15-inch Reclamation irrigation lateral and easement.

Irrigation Lateral 6
4. Replace existing 21-inch lateral with 24-inch lateral in steel casing.
Irrigation Lateral 7
1. Realign and install new 6-inch Reclamation irrigation lateral in new easement. This lateral includes 1 valve and 1 drain.

Irrigation Lateral 7
2. Remove existing 6-inch Reclamation irrigation lateral.

Davis Aqueduct
Construct new removable protective bridging over Davis aqueduct or protect with lightweight backfill.
Irrigation Lateral 8
1. Remove or abandon existing 21-inch Reclamation line.

Irrigation Lateral 8
2. Construct new 24-inch Reclamation irrigation lateral and drain pipe in new easement. This lateral includes 4 valves and 1 drain.

Irrigation Lateral 8
3. Remove or abandon existing 18-inch Reclamation irrigation lateral.

Irrigation Lateral 8

Irrigation Lateral 8
5. Construct new steel casing for new 30-inch Reclamation irrigation lateral.