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

FINDING OF NO SIGNIFICANT IMPACT

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

FONSI-20-010
(supersedes FONSI-17-004)

Recommended by:

PETER CROOKSTON
Peter Crookston
Environmental Group Chief

Concur:

RICK BAXTER
Rick Baxter
Water, Environmental, and Lands Division Manager

Approved by:

KENT KOFFORD
Kent Kofford
Area Manager, Provo Area Office
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 second review of the Utah Department of Transportation's (UDOT) State Environmental Study (SES) and SES Re-evaluation (SESR) (collectively “Studies”) after Reclamation issued a Finding of No Significant Impact (FONSI) February 11, 2020. This second review was in response to additional conflicts between UDOT’s proposal (Proposed Action) and Reclamation features that were identified by UDOT’s contractor after the FONSI was issued in February 2020. To comply with NEPA and ensure no new impacts would result from the changes in UDOT’s proposal, Reclamation undertook a second review of the Studies in relation to the additional conflicts identified in order to determine adequacy for adoption as a NEPA document under 40 CFR 1506.3, 43 CFR 46.320, and Reclamation policy. These changes are captured in the map series at the end of this FONSI, along with the original conflicts that were covered under the first review and FONSI.

The federal action evaluated was whether Reclamation should authorize UDOT’s additional proposed changes to Reclamation’s easements, fee title lands and facilities. The remainder of the Project not directly affecting Reclamation was also evaluated in the Studies and were considered cumulatively with the Proposed Action.

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
Table 1 below summarizes the Proposed Action for the Davis Aqueduct and each irrigation lateral and includes both the original proposal and the changes proposed in July 2020. More detailed descriptions for each area are provided in Attachment A.

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>
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<tr>
<td>Irrigation Lateral 1</td>
<td>Remove and replace existing 10-inch pipe in new steel casing for crossing of U.S. 89</td>
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</tr>
<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, Area 4, Area 6</td>
</tr>
<tr>
<td>Irrigation Lateral 2</td>
<td>Remove existing 10-inch pipe. Replace with 12-inch pipe in new alignment. New 12-inch pipe west of U.S. 89 would be in new easement. New 12-inch pipe would have steel casing for crossing of U.S. 89.</td>
<td>Area 3</td>
</tr>
<tr>
<td>Irrigation Lateral 3</td>
<td>Remove and replace existing 10-inch pipe 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.</td>
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<tr>
<td>Irrigation Lateral 4</td>
<td>Replace existing 10-inch pipe with a new 10-inch pipe in new alignment. New 10-inch pipe east of U.S. 89 would be in new easement. New 10-inch pipe would have steel casing for crossing of U.S. 89.</td>
<td>Area 4</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.</td>
<td>Area 4</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 with new 15-inch minimum diameter pipe in existing easement.</td>
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<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.</td>
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<tr>
<td>Irrigation Lateral 8</td>
<td>Replace existing 12-inch pipe with new 12-inch pipe in existing easement. New 12-inch pipe would have steel casing for crossing of Oak Hills Drive.</td>
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<tr>
<td>Davis Aqueduct Drain and Blowoff (New Item July 2020)</td>
<td>Modify existing Davis Aqueduct Drain and Blowoff piping, and extend existing piping to the west to connect to new storm drain piping network.</td>
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<tr>
<td>Irrigation Lateral 9</td>
<td>Remove and replace existing 21-inch pipe with a 24-inch pipe in new alignment and new easement on east side of U.S. 89. Provide new 30-inch pipe in new alignment and new easement in new steel casing for crossing of U.S. 89. Replace existing 18-inch pipe on west side of U.S. 89 with a new 24-inch pipe in new alignment and new easement.</td>
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<tr>
<td>Irrigation Lateral 9a</td>
<td>Remove and replace existing 18-inch pipe and 15-inch pipe with 18-inch pipe in new alignment and new easement on west side of U.S. 89.</td>
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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.
3. **System Operations**—No effect.
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. Adoption
Based on a review of the Studies and their supporting documents, the Studies are considered adequate under NEPA and are adopted as an Environmental Assessment per procedures defined in the NEPA regulations (40 CFR 1508.9 and 43 CFR 46 Subpart D) and Reclamation policy.

V. Finding of No Significant Impact
Based on the foregoing information, implementing the Proposed Action as modified and described above 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.

VI. Decision
It is Reclamation’s decision, therefore, to authorize UDOT to implement the Proposed Action with the changes as described herein and the supplementary information attached hereto. This FONSI (FONSI-20-010) supersedes the previous FONSI (FONSI-17-004).
Attachment A

Table A-1 below summarizes the Proposed Action for the Davis Aqueduct and each irrigation lateral. More detailed descriptions for each area follow the table.

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<td>Irrigation Lateral 4</td>
<td>Replace existing 10-inch pipe with a new 10-inch pipe in new alignment. New 10-inch pipe east of U.S. 89 would be in new easement. New 10-inch pipe would have steel casing for crossing of U.S. 89.</td>
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<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 with new 15-inch minimum diameter pipe in existing easement.</td>
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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. The attached figures include an overview figure and detailed maps for each of the seven areas.

### 1.1 Proposed Action Areas

#### 1.1.1 Area 1
**Irrigation Lateral 1:** An existing 10-inch Reclamation irrigation line crosses U.S. 89 at 8200 South in the city of South Weber. The Proposed Action would remove and replace the existing 10-inch irrigation pipe with a new 10-inch pipe and place it inside a new 20-inch-diameter steel casing from the centerline of the east frontage road to 5 feet beyond the west side of U.S. 89 (see Area 1 figure).

#### 1.1.2 Area 2
**Davis Aqueduct:** The existing 78-inch Davis Aqueduct is located on the east side of the U.S. 89/State Route (S.R.) 193 interchange and crosses U.S. 89 south of the interchange. Additionally, an existing 60-inch influent pipe goes west from the Davis Aqueduct under U.S. 89 to WBWCD’s Davis North Water Treatment Plant, and an existing 48-inch waste-way pipe goes southwest from the Davis Aqueduct under U.S. 89 to the southwest quadrant of the U.S. 89/S.R. 193 interchange (see Area 2 figure). The Davis Aqueduct, the 60-inch influent pipe, and the 48-inch waste-way pipelines would all be protected in place prior to the widening of U.S. 89 proposed as part of the UDOT U.S. 89 project in this area.

UDOT proposes to place fill over two short sections and cut over two short sections of the existing 78-inch Davis Aqueduct along the southbound and northbound on ramps at S.R. 193 as part of UDOT’s U.S. 89 project. The portion of the Davis Aqueduct that crosses under the additional fill

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would need to be structurally protected by one of two methods. One method would be to install removable structural bridging on the top and sides of the Davis Aqueduct to protect it in its current location. A second method would be to excavate existing fill material above the Davis Aqueduct and replace it with lightweight backfill of a weight equal to or less than the weight of the existing soil above the aqueduct. The total distance of the removable structural bridging or lightweight backfill would be about 130 linear feet (see Area 2 figure). The total distance of cut is about 160 linear feet.

1.1.3 Area 3
The pipelines for two irrigation laterals would be relocated by the Proposed Action in Area 3 (see Area 3 figure).

Irrigation Lateral 2: The first relocated irrigation lateral is an existing 10-inch Reclamation line that crosses U.S. 89 near Hobbs Creek Drive north of 2700 North. On the east side of the crossing, a portion of the existing irrigation line is currently buried parallel to U.S. 89 underneath existing pavement. The widening of U.S. 89 would encroach on the irrigation alignment on the east side of U.S. 89. The Proposed Action would remove and abandon the existing irrigation line and realign the irrigation line so that it crosses U.S. 89 and Hobbs Creek Drive 350 feet south of its current alignment. The realigned irrigation line would be a 12-inch pipe placed in a steel casing that extends 5 feet beyond the east side of U.S. 89 and 5 feet beyond the west side of Hobbs Creek Drive (see Area 3 figure). The portion of the line parallel to U.S. 89 would be relocated west of Hobbs Creek Drive in a new easement. The relocated lateral includes one valve and one drain.

Irrigation Lateral 3: The second relocated irrigation line in this area is an existing 10-inch Reclamation irrigation line that crosses U.S. 89 near Sunset Drive and an adjacent existing 4-inch irrigation line on the west side U.S. 89.

The Proposed Action would remove the existing 10-inch irrigation line and install a new 10-inch irrigation pipe under U.S. 89 in a new steel casing.

With the UDOT U.S. 89 project, the existing 4-inch irrigation segment would be under a proposed noise wall on the west side of U.S. 89. With the UDOT U.S. 89 project, the widening of U.S. 89 would encroach on the 4-inch irrigation line on the west side of U.S. 89.

The Proposed Action would remove the 4-inch irrigation line and replace it with a new 6-inch (minimum diameter) irrigation pipe in the west frontage road (Hobbs Creek Drive) between Sunset Drive and 2700 North (see Area 3 figure). The relocated lateral includes three valves. No drains are included with this lateral.

1.1.4 Area 4
The Proposed Action would maintain protect-in-place measures for the Davis Aqueduct by Antelope Drive and would relocate two irrigation laterals in Area 4 (see Area 4 figure).

Davis Aqueduct: The UDOT U.S. 89 project would protect the Davis Aqueduct in place where the Davis Aqueduct crosses Hobbs Creek Drive, Antelope Drive, and U.S. 89 adjacent to the Antelope Drive interchange.
UDOT proposes to place fill over two sections of the existing 78-inch Davis Aqueduct under Antelope Drive and U.S. 89 as part of UDOT’s U.S. 89 project. The portion of the Davis Aqueduct that crosses under the additional fill would need to be structurally protected by one of two methods. One method would be to install removable structural bridging on the top and sides of the Davis Aqueduct to protect it in its current location. A second method would be to excavate existing fill material above the Davis Aqueduct and replace it with lightweight backfill of a weight equal to or less than the weight of the existing soil above the aqueduct. The total distance of the removable structural bridging or lightweight backfill would be approximately 155 linear feet at Antelope Drive and up to 670 feet at U.S. 89 (see Area 4 figure).

**Irrigation Lateral 4:** The first irrigation lateral relocation in this area would be an existing 10-inch Reclamation irrigation line that crosses under U.S. 89 about 450 feet south of Antelope Drive. With the UDOT U.S. 89 project, the new interchange at Antelope Drive would require a deep-cut excavation to lower the grade of U.S. 89 to go under Antelope Drive. The existing irrigation pipeline would need to be relocated to allow this proposed excavation. The Proposed Action would install a new 10-inch irrigation pipe southward for about 1,100 feet, then turn west and cross under U.S. 89 just south of 1925 North. The new irrigation line would be installed in a new steel casing where it crosses under U.S. 89. After crossing under U.S. 89, the pipeline would connect to another relocated Reclamation irrigation line (Irrigation Lateral 5). The 20-foot-wide Reclamation easement for this irrigation line would be relocated so that it would encompass the relocated irrigation line east of U.S. 89. The relocated lateral includes one valve. No drains are included with this lateral.

**Irrigation Lateral 5:** The second irrigation lateral relocation in this area includes existing Reclamation irrigation lines (sizes vary) and easements that are currently located in the shoulder on the west side of U.S. 89 between about 2280 N. Hobbs Creek Drive and about 1790 North. These Reclamation irrigation lines are currently located west of U.S. 89 or in the shoulder of the west frontage road. These irrigation lines and easements would be impacted by the UDOT U.S. 89 project. The Proposed Action would remove or abandon the existing irrigation lines and easements and would replace them with a new 10-inch irrigation pipe to be installed along the west side of the west frontage road (Hobbs Creek Drive). The relocated irrigation line would also include new connections to other irrigation lines that split off the Reclamation irrigation line. The Reclamation easements for the existing irrigation lines would be relocated so that the new 16.5-foot and 20-foot-wide Reclamation easements would encompass the relocated irrigation line. The relocated lateral includes six valves and one drain.

**1.1.5 Area 5**
The Proposed Action would relocate one irrigation lateral in Area 5 (see Area 5 figure).

**Irrigation Lateral 6:** An existing 21-inch Reclamation irrigation line crosses U.S. 89 south of 1070 North and connects to an existing 15-inch irrigation line on the west side of U.S. 89. With the UDOT U.S. 89 project, a new interchange on U.S. 89 at Gordon Avenue would be constructed north of these irrigation lines. The U.S. 89/Gordon Avenue interchange would require a deep-cut excavation to lower the grade of U.S. 89 to go under Gordon Avenue.
The existing 21-inch irrigation pipeline crossing would need to be lowered to allow this proposed excavation at Gordon Avenue to occur. The Proposed Action would remove or abandon the existing 21-inch irrigation line and replace it with a 24-inch irrigation line and steel casing at a lower elevation.

The widening of U.S. 89 would also encroach on the alignment of the existing 15-inch irrigation line on the west side of U.S. 89. The Proposed Action would remove the existing 15-inch irrigation line on the west side of U.S. 89 that goes from south to north and replace it with a 24-inch irrigation line approximately 60 feet west before turning and running 270 feet northwest to connect to the existing 15-inch line. The 20-foot-wide Reclamation easement for this irrigation line would be relocated so that it would encompass the relocated irrigation line.

The existing 15-inch pipe that goes from east to west would be replaced with a 15-inch minimum diameter pipe in the existing 20-foot-wide Reclamation easement.

The relocated lateral includes one valve and one drain.

1.1.6 Area 6
The Proposed Action would maintain protect-in-place measures for the Davis Aqueduct by Oak Hills Drive, would modify the existing Davis Aqueduct drain and blowoff piping, and would remove and relocate two irrigation laterals in Area 6 (see Area 6 figure).

**Davis Aqueduct:** The 78-inch Davis Aqueduct currently runs adjacent to and in the shoulder of the east frontage road (Eastside Drive) along U.S. 89 to the north and south of Oak Hills Drive. With the UDOT U.S. 89 project, the Oak Hills Drive interchange would add additional fill and pavement (for the park-and-ride lot and frontage road relocations) above the Davis Aqueduct between about 575 N. Eastside Drive and Canyon Creek Circle. The Proposed Action includes two methods to provide structural protection for the Davis Aqueduct. One method would be to install removable structural bridging on the top and sides of the Davis Aqueduct to protect it in its current location. A second method would be to excavate existing material above the Davis Aqueduct and replace it with lightweight backfill of a weight equal to or less than the weight of the existing soil above the aqueduct. The total distance of the removable structural bridging or lightweight backfill would be up to 1,400 linear feet (see Area 6 figure). The structural bridging or replacement with lightweight backfill would be designed to accommodate the additional external loading above the Davis Aqueduct from the UDOT U.S. 89 project.

**Davis Aqueduct Drain and Blowoff Pipe Connection (New Item July 2020):** An existing Davis Aqueduct drain and blowoff manhole is located in Eastside Drive just north of the U.S. 89/Oak Hills Drive intersection. The existing drain is not connected to a storm drain system. With the UDOT U.S. 89 project, a new parking lot would be constructed where the Davis Aqueduct drain and blowoff manhole is located and a network of storm drain pipes would be installed. The Proposed Action would connect the existing Davis Aqueduct drain and blowoff piping to the new storm drain pipe network.

**Irrigation Lateral 7:** An existing 6-inch Reclamation irrigation line and 20-foot-wide Reclamation easement runs adjacent to the Davis Aqueduct and in the shoulder of the east frontage road.
(Eastside Drive) along U.S. 89. With the UDOT U.S. 89 project, Irrigation Lateral 7 would be impacted by the proposed structural protection for the Davis Aqueduct in Area 6 described in the previous paragraph. The Proposed Action would remove the existing irrigation line and replace it with a new 6-inch pipe installed along the proposed east frontage road. The 20-foot-wide Reclamation easement for this irrigation line would be relocated so that it would encompass the relocated irrigation line. The relocated lateral would include one valve and one drain.

**Irrigation Lateral 8 (New Item July 2020):** An existing 12-inch Reclamation irrigation line and 20-foot-wide Reclamation easement crosses Oak Hills Drive approximately 500 feet west of U.S. 89. With the UDOT U.S. 89 project, Oak Hills Drive and the existing embankment would be widened by approximately 20 feet on each side. The widened embankment would bury an existing drain and also add fill, dead loading, and live traffic loading on the existing 12” pipe. The Proposed Action would abandon the existing 12-inch irrigation line under Oak Hills Drive and construct a new 12” pipe in a 20” steel casing offset approximately 5 feet to the west of the existing pipe. The new 12” pipe would remain within the existing easement. The existing drain would also be abandoned, and a new drain would be constructed beyond the toe of slope on the south side of the new embankment.

**1.1.7 Area 7**

The Proposed Action would relocate one irrigation lateral in Area 7 (see Area 7 figure). Irrigation Lateral 9 begins on the east side of U.S. 89, crosses U.S. 89 and then splits into two laterals on the west side of U.S. 89. For this project, the description of Irrigation Lateral 9 includes the pipe on the east side of U.S. 89, the crossing of U.S. 89 and the realignment north of 125 North/Tanglewood Drive on the west side of U.S. 89. The realignment south of 125 North/Tanglewood on the west side of U.S. 89 is described as Irrigation Lateral 9a.

**Irrigation Lateral 9:** Irrigation Lateral 9 is an existing 21-inch Reclamation irrigation line that crosses U.S. 89 near 250 North. On the west side of U.S. 89, Irrigation Lateral 9 splits and has one pipeline that continues westward and another existing 18-inch pipeline that goes southward from 250 North.

With the UDOT U.S. 89 project, a new interchange at Oak Hills Drive would be constructed north of the existing 21-inch Reclamation irrigation line. The Oak Hills Drive interchange would require a deep-cut excavation to lower the grade of U.S. 89 to go under Oak Hills Drive. The existing 21-inch Reclamation irrigation line would need to be relocated where it crosses under U.S. 89 to allow this excavation. The Proposed Action would replace the existing 21-inch irrigation line with a new 24-inch irrigation pipeline between Canyon Creek Circle and 125 North/Tanglewood Drive under the east frontage road. At 125 North/Tanglewood Drive, the new 24-inch irrigation pipe would cross under U.S. 89 in a steel casing and connect to the existing Irrigation Lateral 9 at Pinewood Lane. The 20-foot-wide Reclamation easement for this irrigation line would be relocated so that it would encompass the relocated irrigation line on the east side of U.S. 89.

On the west side of U.S. 89 at Pinewood Lane, there would be a split where the relocated Irrigation Lateral 9 would go north and the relocated Irrigation Lateral 9a would go south. See the next section for the description of the relocated Irrigation Lateral 9a.
The UDOT U.S. 89 project’s widening and realignment of U.S. 89 in this area would also encroach on about 1,000 feet of existing 18-inch pipeline that is on the west side of U.S. 89 between about 250 North and Pinewood Lane. The Proposed Action would also remove the existing 18-inch pipeline and replace it with a new 24-inch irrigation pipeline on the west side of the southbound on ramp from Oak Hills Drive onto U.S. 89 between 250 North and Pinewood Lane. The 20-foot-wide Reclamation easement for this irrigation line would be relocated so that it would encompass the relocated irrigation line. The relocated lateral would include four valves and one drain.

**Irrigation Lateral 9a (New Item July 2020):** As described above, Irrigation Lateral 9a is the southern section of an existing 18-inch Reclamation irrigation pipeline west of U.S. 89 that runs south of Pinewood Lane. The existing pipeline tees approximately 450 feet south of Pinewood Lane near 25 South and a 15” irrigation pipeline runs to the west and an 8” irrigation pipeline continues to the south. With the UDOT U.S. 89 project, a new frontage road would be constructed over a portion of the existing 18-inch and 15-inch irrigation pipelines and the grade would be lowered so that the depth of the existing pipe would not satisfy minimum depth requirements. U.S. 89 would also be widened so that the UDOT No-Access line and fence would encroach on the existing easement just south of Pinewood Lane. The Proposed Action would remove the existing 18-inch irrigation pipeline and replace it with a new 18-inch irrigation pipeline beyond the west edge of the new fence and No-Access line between Pinewood Lane and about 25 South. The portion of the existing 15-inch irrigation line that is under the new frontage road would also be removed and replaced in the same location with a new 18-inch irrigation line. The 20-foot wide Reclamation easement for this irrigation line will be relocated so that it will encompass the relocated irrigation line. This relocated lateral would include two valves.
Irrigation Lateral 1
1. Remove and replace existing 10-inch Reclamation irrigation lateral.
2. Construct new steel casing for Reclamation irrigation lateral.
Davis Aqueduct
Produce 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.

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

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.

2. Remove existing 4-inch Reclamation irrigation under proposed noise wall and relocate under Hobbs Creek Dr and replace with 6-inch irrigation lateral.
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 5
1. Construct and realign new 10-inch Reclamation irrigation lateral and easement. This lateral includes 6 valves and 1 drain.
2. Remove or abandon existing Reclamation irrigation laterals and easement.

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

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

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

4. Replace existing 21-inch lateral with 24-inch lateral in steel casing.
**Davies Aqueduct Irrigation Laterals Replacement**

**Proposed Action Areas**

**Area 6 of 7**

- **Irrigation Lateral 7**
  1. Realign and install new 6-inch Reclamation irrigation lateral in new easement. This lateral includes 1 valve and 1 drain.
  2. Remove existing 6-inch Reclamation irrigation lateral.

- **Drain Blowoff (New Item July 2020)**
  Modify existing drain blowoff and connect to new storm drain network.

- **Irrigation Lateral 8 (New Item July 2020)**
  1. Replace existing 12-inch lateral with new 12-inch lateral in new 18-inch steel casing in existing easement.
  2. This lateral includes 1 drain.

- **Davis Aqueduct**
  Construct new removable protective bridging over Davis aqueduct or protect with lightweight backfill.
**Irrigation Lateral 9**
1. Remove or abandon existing 21-inch Reclamation line.

**Irrigation Lateral 9**
2. Construct new 24-inch Reclamation irrigation lateral and drain pipe in new easement. This lateral includes 4 valves and 1 drain.

**Irrigation Lateral 9**
3. Remove or abandon existing 18-inch Reclamation irrigation lateral.

**Irrigation Lateral 9a (New Item July 2020)**
1. Remove or abandon existing 18-inch Reclamation lateral.
2. Construct new 18-inch Reclamation irrigation lateral in existing easement and partial new easement.
3. This lateral includes 2 valves.

**Irrigation Lateral 9a (New Item July 2020)**
4. Remove or abandon existing 15-inch Reclamation lateral.

**Irrigation Lateral 9**