

A scenic landscape photograph showing a river flowing through a valley. The river is the central focus, with white rapids and foam. The surrounding hills and mountains are covered in a light layer of snow, suggesting a winter or early spring setting. The sky is clear and blue. The text is overlaid in the center of the image.

**Denver  
Canal Safety Meeting  
May 14, 2008**



STATE OF NEVADA  
GOVERNOR

Rich. Rothbart  
High. Secretary  
1969-70

Jan. Winder  
State. Sec. Ret.  
1969-70

Frank Nelson  
State. Sec. Ret.  
1969-70

James E. Smith  
High. Secretary  
1969-70

Arvin Carter  
State. President

Art Johnson  
State. President

An aerial photograph of a large dam and reservoir. The dam is a long, low structure with a series of spillways. The reservoir is a large body of water behind the dam. The surrounding area is mostly flat and appears to be a mix of natural and developed land. The text is overlaid on the image in a bold, blue, sans-serif font with a red outline.

**Newlands Project**  
**105 Years of Service**

**TCID**

**90 Years of Service**



6:08 AM



6:58 AM



6:59 AM



6:59 AM





8:50 AM



9:32 AM









10:50 AM



1:01 PM



2:07 PM



2:57 PM



4:06 PM



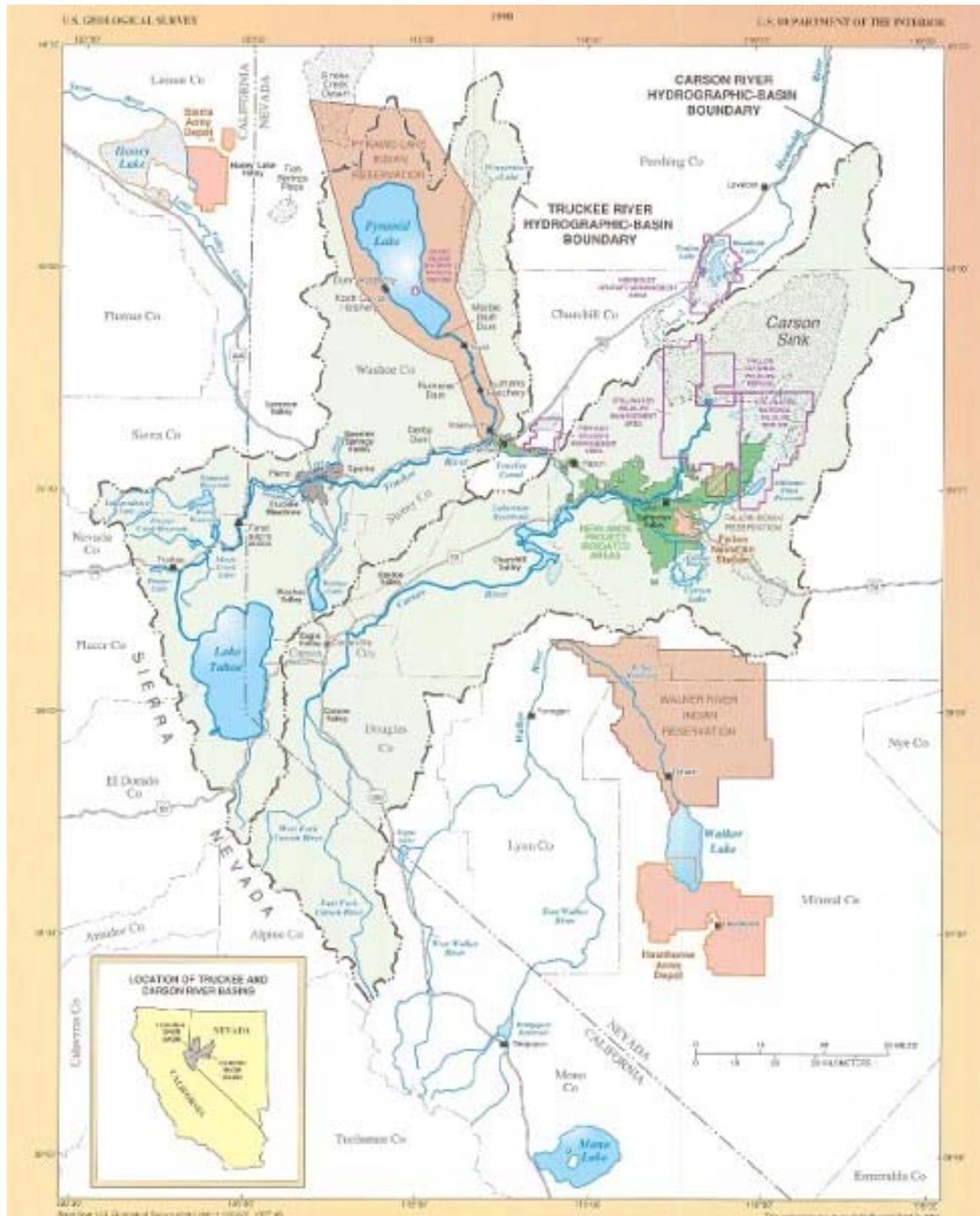
January 5, 2008 10:00 A.M.

# Authorized March 14, 1903

- **Truckee-Carson** (Newlands Project)-NV June 13, 1903/June 17, 1905
- **Wyoming-Sweetwater** (North Platt Project)-NB 1905/
- **Milk River** Project-Montana July 27, 1906/1911
- **Gunnison** (Uncompahgre Project)-CO July 1904/1908
- **Salt River** Project- AZ August 24, 1903/1907  
Ethan Allen Hitchcock, Secretary of the Interior, 1899-1907



February 27, 1919 Name changed  
from Truckee-Carson Project to  
Newlands Project in Honor of  
Senator Francis G. Newlands

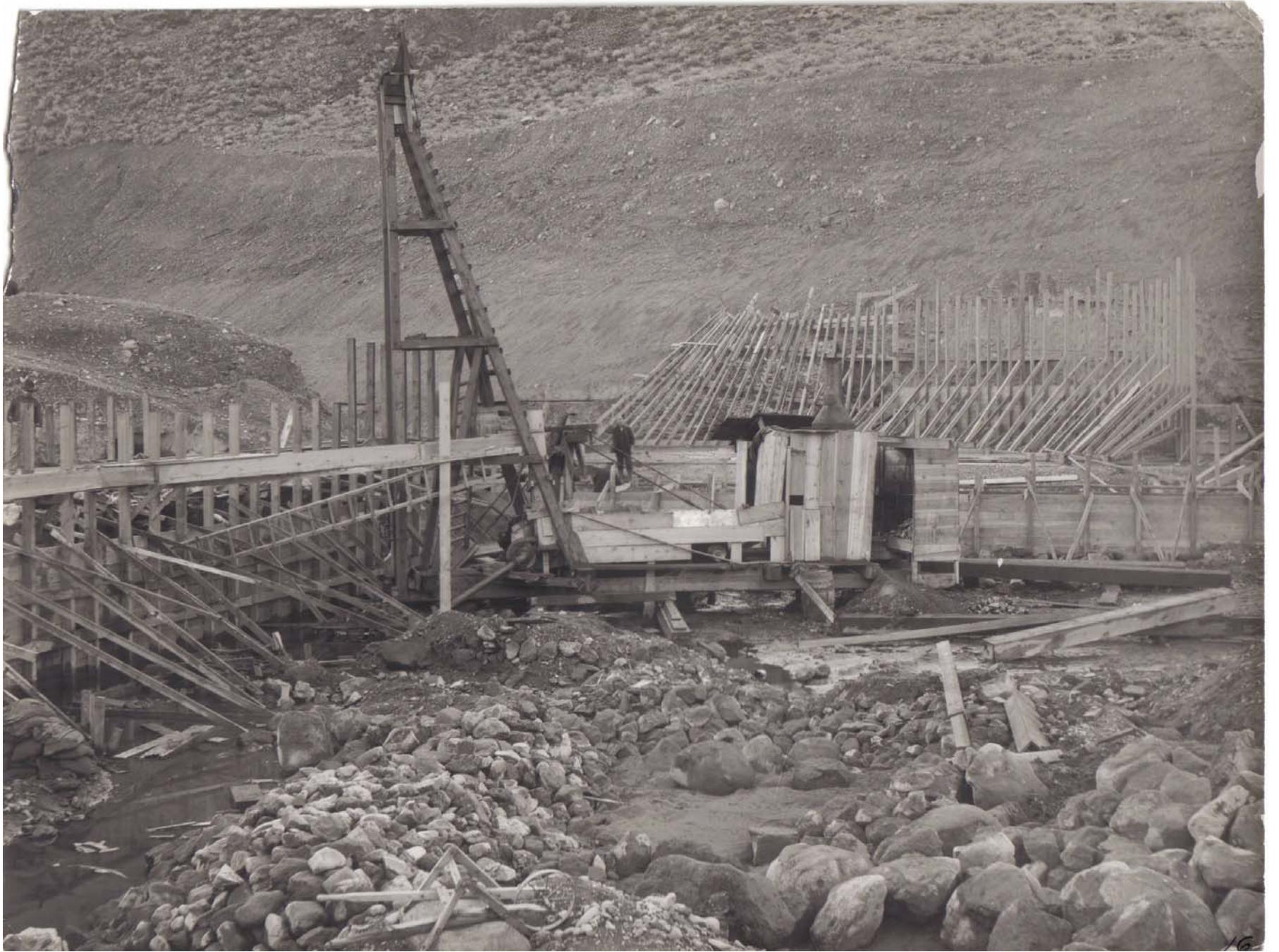




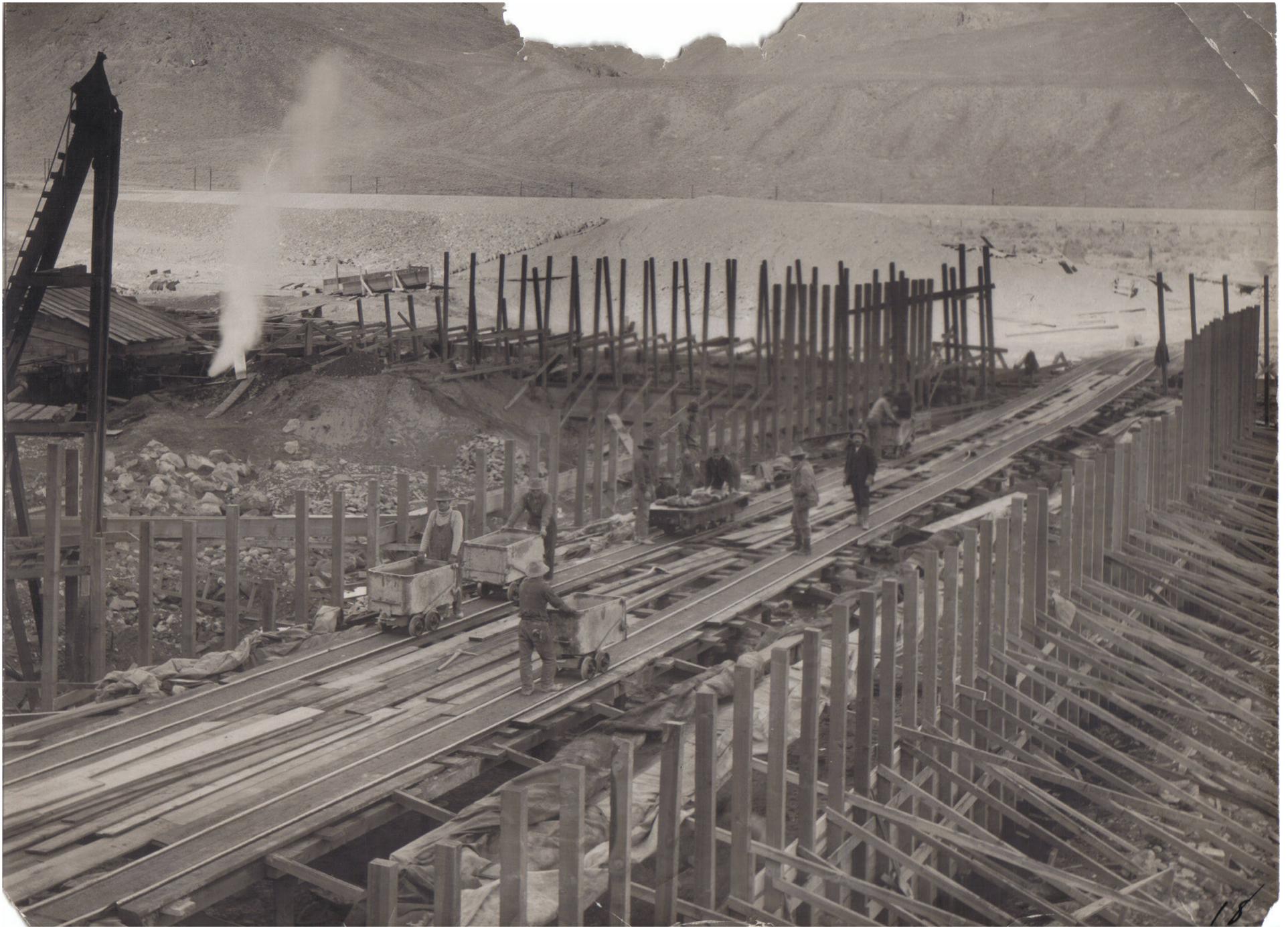
USRS Spec. #001



807



809







# Truckee Canal Design

- 31 miles in length
  - Carrying Capacity
    - 1400 cfs to Pyramid Check (6 Miles)
    - 200 cfs to Wadsworth Bench (Dodge Flat) inverted siphon
    - 1200 cfs to Lower Carson Reservoir (Lahontan)
    - 700 to 800 to Lovelocks (Lower Humboldt) at the 23.5 mile a 6000 ft. inverted siphon (before Hazen)
- 88.4 Miles in length

# Truckee Canal Design

- 2874 Feet Tunnels
- 2 Spills back to Truckee River
- Lined Canal
- 6 Diversion Structures







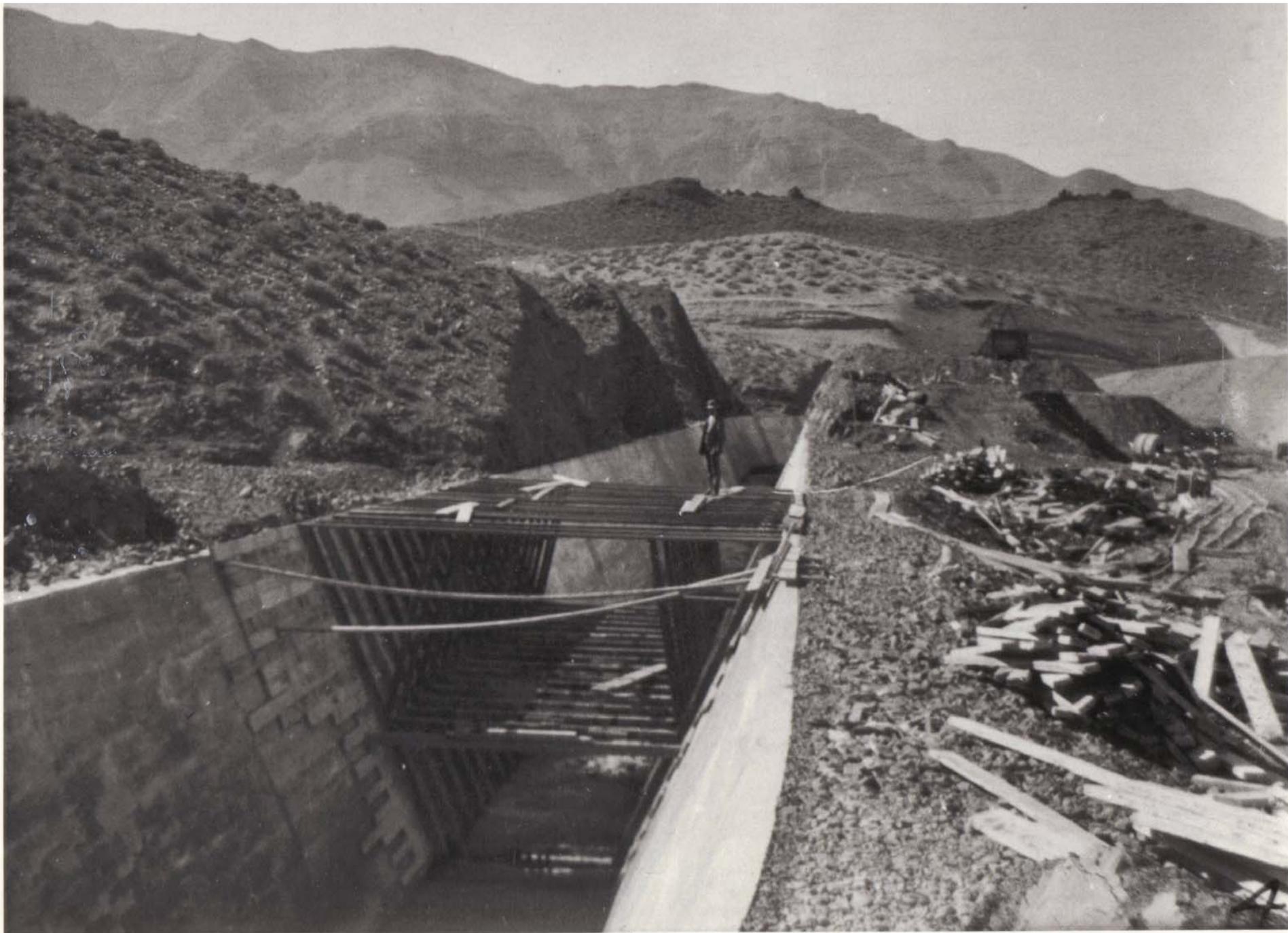
817

64



832

21





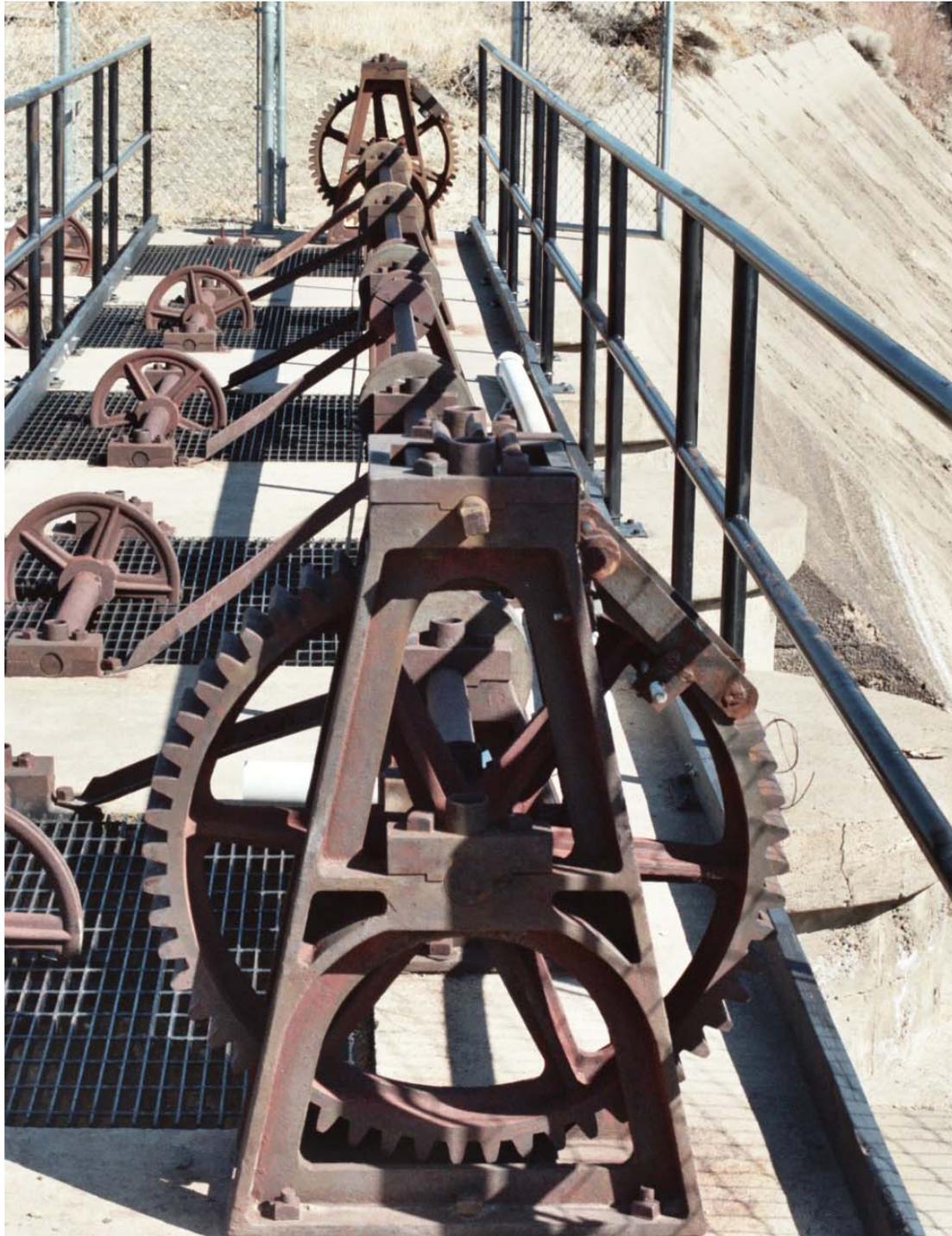
# Derby and Gilpin Spills

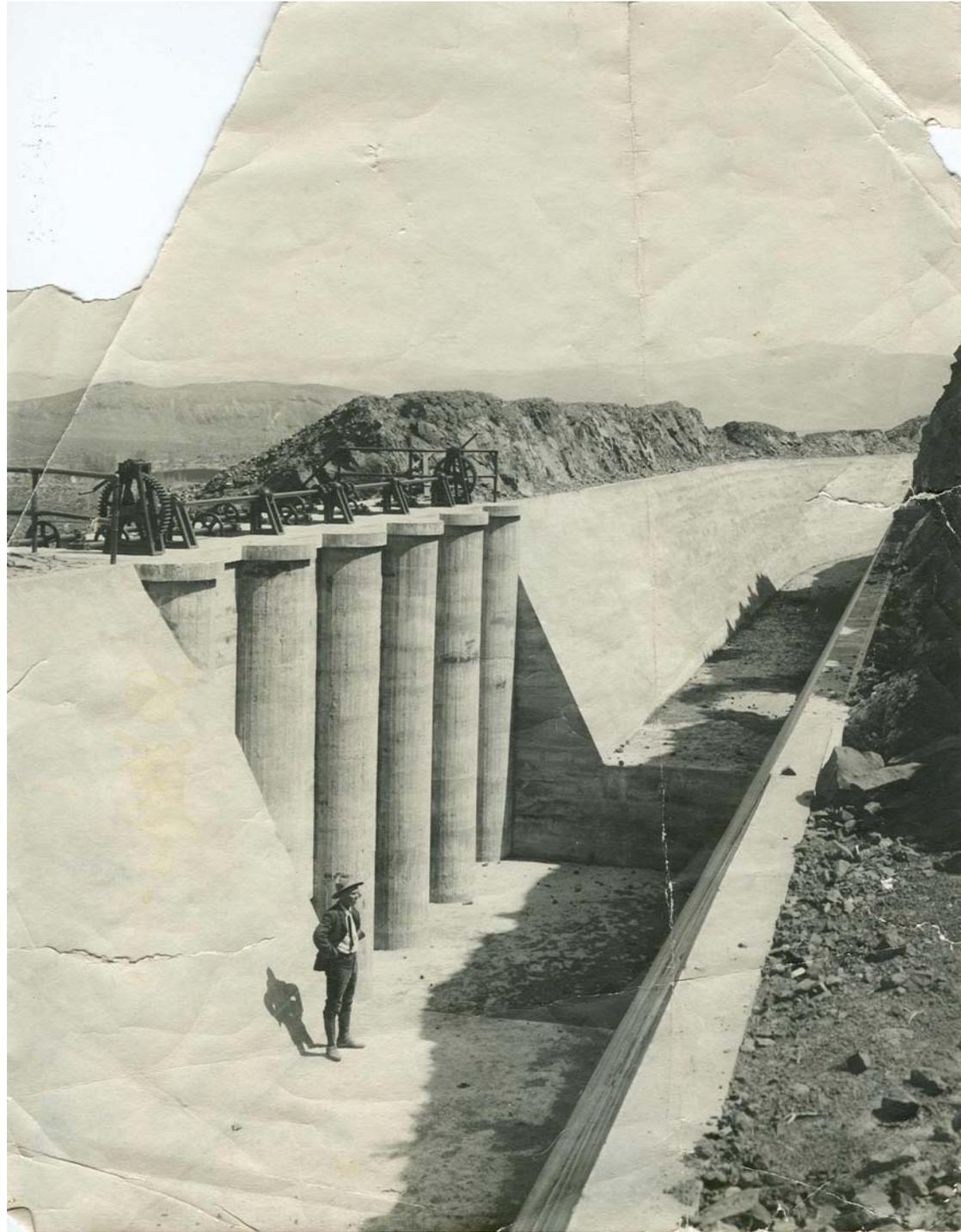


1178



1177









757











298

989  
298

First water from  
Truckee River to drop  
into Carson River.

November 15 - 1905

Present site of power house  
at Lahontan is where  
water drops from end of flume

Old road to Carson  
City shows under lower  
end of flume

G. K. Libby









773





Fernley abt  
1909









**Gilpin Overhauled  
2004  
New  
Operators/Bridge  
Deck Installed  
\$100K**



2025

# RECLAMATION

Managing Water in the West

Date *September 21, 2004*

Pay to the order of *Truckee-Carson Irrigation District and City of Fernley*

\$ *150,000.00*

*One Hundred Fifty Thousand and no/100* Dollars

 U.S. Department of the Interior  
Bureau of Reclamation  
Mid-Pacific Region

For *Water 2025 Challenge Grant*

*John W. Keyes, III*

00078006

07784543/687055473974      02168787454

**WATER 2025**  
**Challenge Grants**

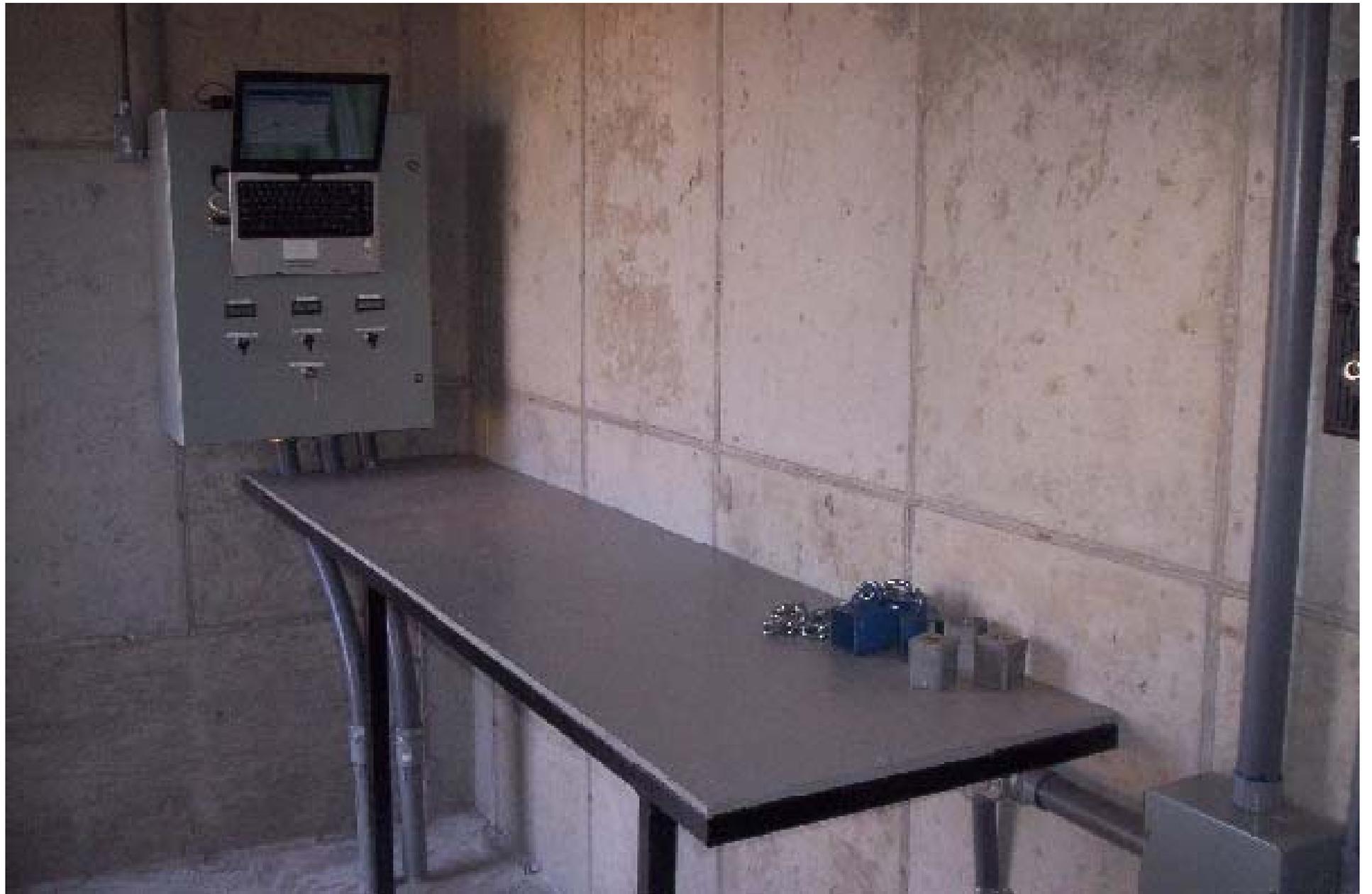










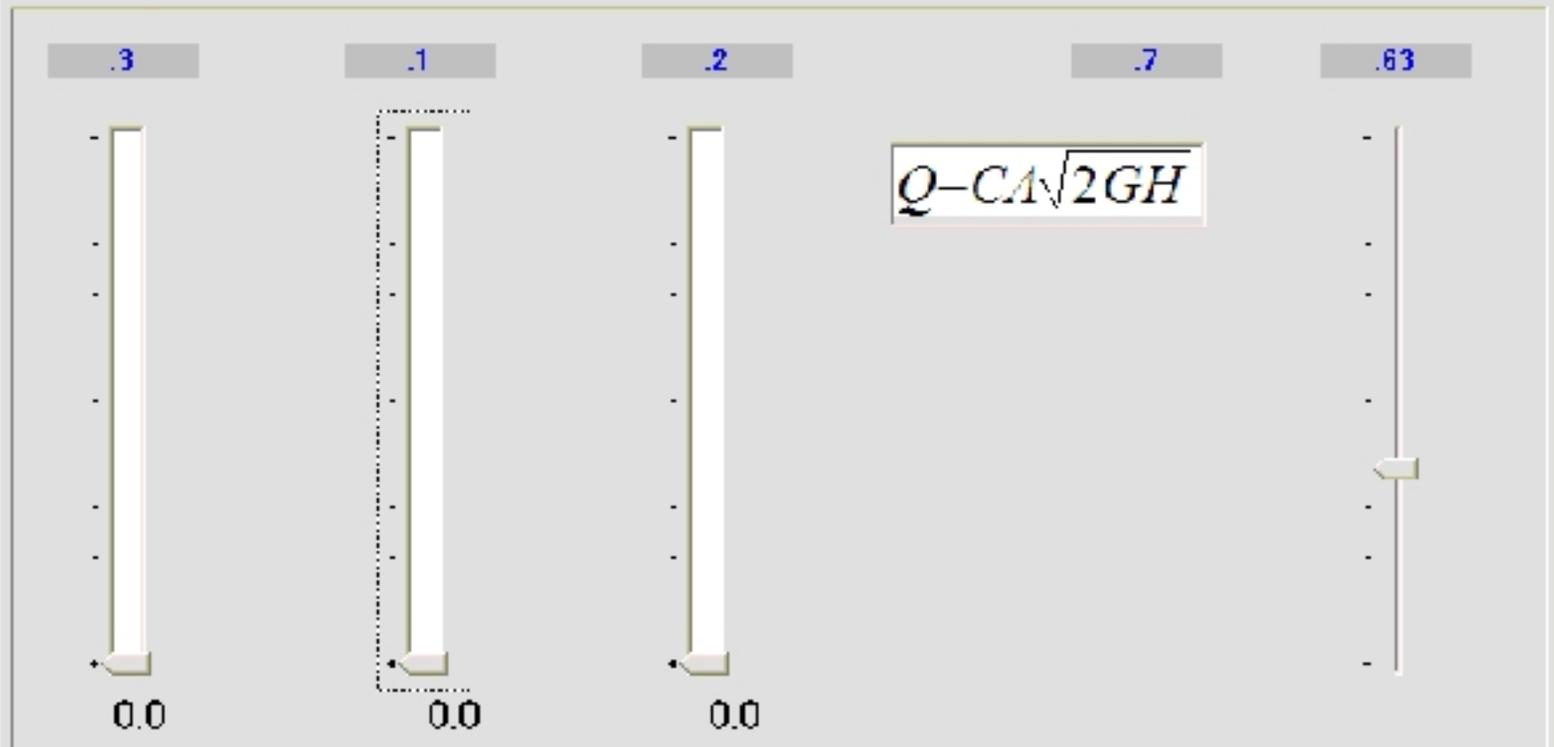




| Gate #1 | Gate #2 | Gate #3 | Canal Level | 24 VDC | Total Q Release |
|---------|---------|---------|-------------|--------|-----------------|
| .1      | .0      | .0      | 1.99        | 27.0   | .7 .63          |

Cancel Calcut Call FH Logn Utilizations Production Status Home

Spill Gates Spare Spare Spare Controls Site Info



Cancel Set Cancel Set Cancel Set

Version: 3.05.06.17



**DIGIVIEW**

Navigation icons: Home, Stop, Refresh, etc.

2006-12-20  
Wed  
12:01:02

Control buttons: Home, Stop, Refresh, etc.

Help

A vertical sidebar containing the 'DIGIVIEW' logo, navigation icons, a digital clock and date display, and a set of control buttons for camera operation.

















- March 21, 2008

# Canal Restrictions

- 150 cfs unchecked- March 21, 2008 20%
  - 250 cfs unchecked- May 9, 2008 33%
  - 350 cfs unchecked- May 16, 2008 ? 47%
- 
- 2008 @ least 10% Shortage in Carson Division

# Truckee Canal

- Fernley wouldn't exist
- Fallon only about 1/3 (20K to 60K)
- Agriculture 204 Million economic impact in Fallon
- Municipal 90% Fernley water ground recharge
- Recreation
- Wildlife- USFWS and State of Nevada
- Fallon Paiute Shoshone Tribe

# OACAP Governs Use

- Truckee Division receives all water from Canal
- Average TR diversions 25% of Carson Division supply
- 2006 No diversions to Carson Division
- 2007 Carson provided 76,800 a/f or 30%
- 2007 Truckee provided 174,400 a/f or 70%

**Truckee Canal  
is a life line to  
Fernley and Fallon**

# URBANIZATION

- Canal was built for ag use
- Canal standards were not for houses lining the banks
- Cost falls on only water right owners
- Local governments want tax base
- Project easements are a nuisances
- Shrink easements pipe drainage system

# URBANIZATION

- Rodent control
- Off road damage to canal banks
- Pumping installations
- Garbage
- Swimming
- Vandalism of structures and controls

How Do We Fix?



# Differences in Canals

- TC- 31 miles
  - 20K people
  - 2 emergency spills
  - 4 check structures
- 
- Carson Division Canals- 300 miles
  - 30K people
  - 100 emergency spills
  - 100's check structures



# How Do We Fix?

- Impermeable barrier- \$40 Million (selected area)
- Lining
- Pipe
- New Spill
- Double canal bank width- Developer Cost
- More check structures to shorten distances
- More automation (SCADA)
- Changing OCAP to allow earlier diversions
- Expand and Maintain flood channels (local gov't)

# How Do We Fix?

- Allow local governments to hook storm drainage into drain system
- Reclamation and Irrigation District work more closely with local planners
- Improve Emergency planning and exercises
- Designate “man made or agriculture” flood plain so insurance is required.
- Organize citizen watch “many eyes”
- Education and public relations









4:28 PM









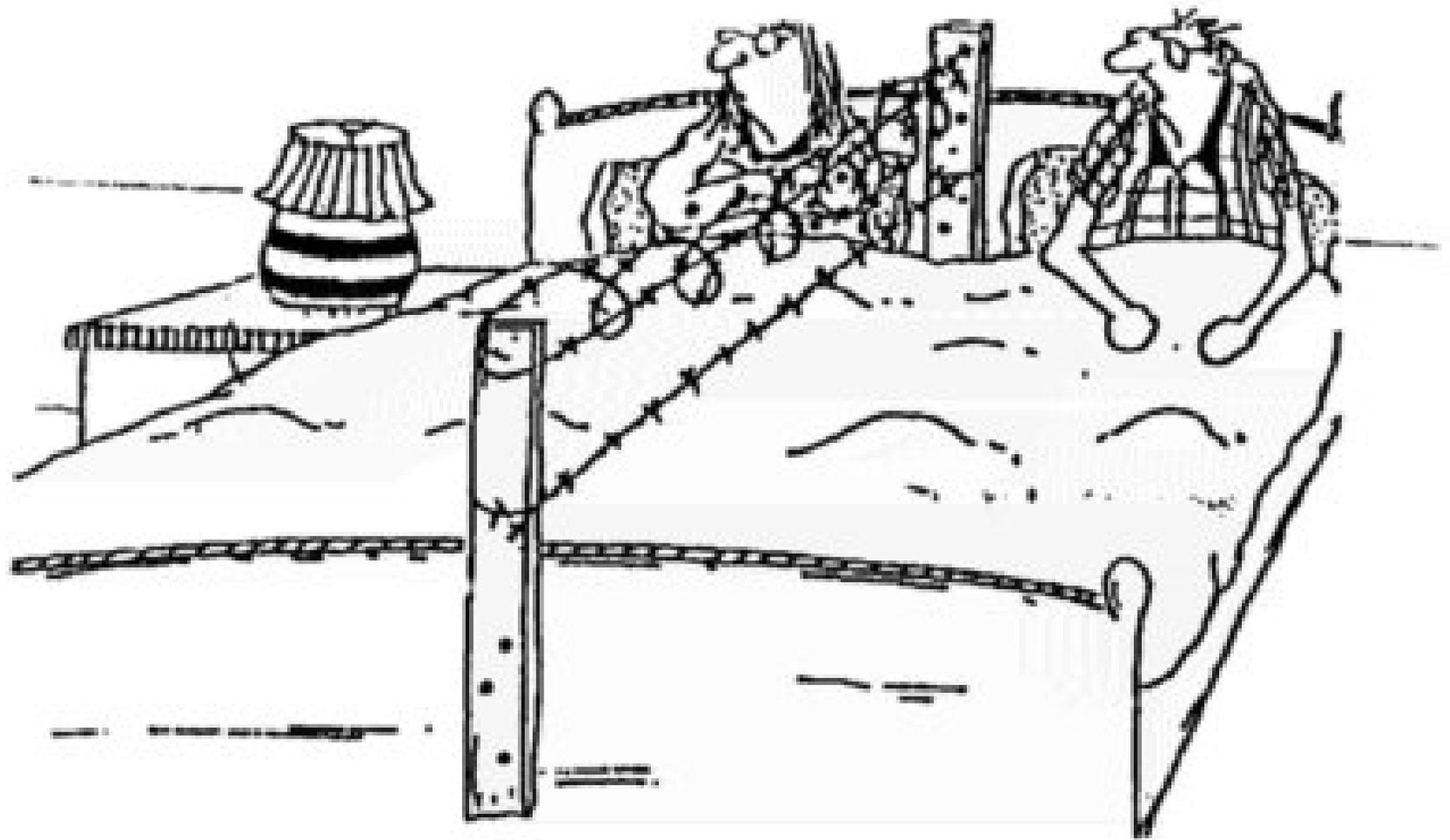












**“Apparently I have done something to  
upset you.”**

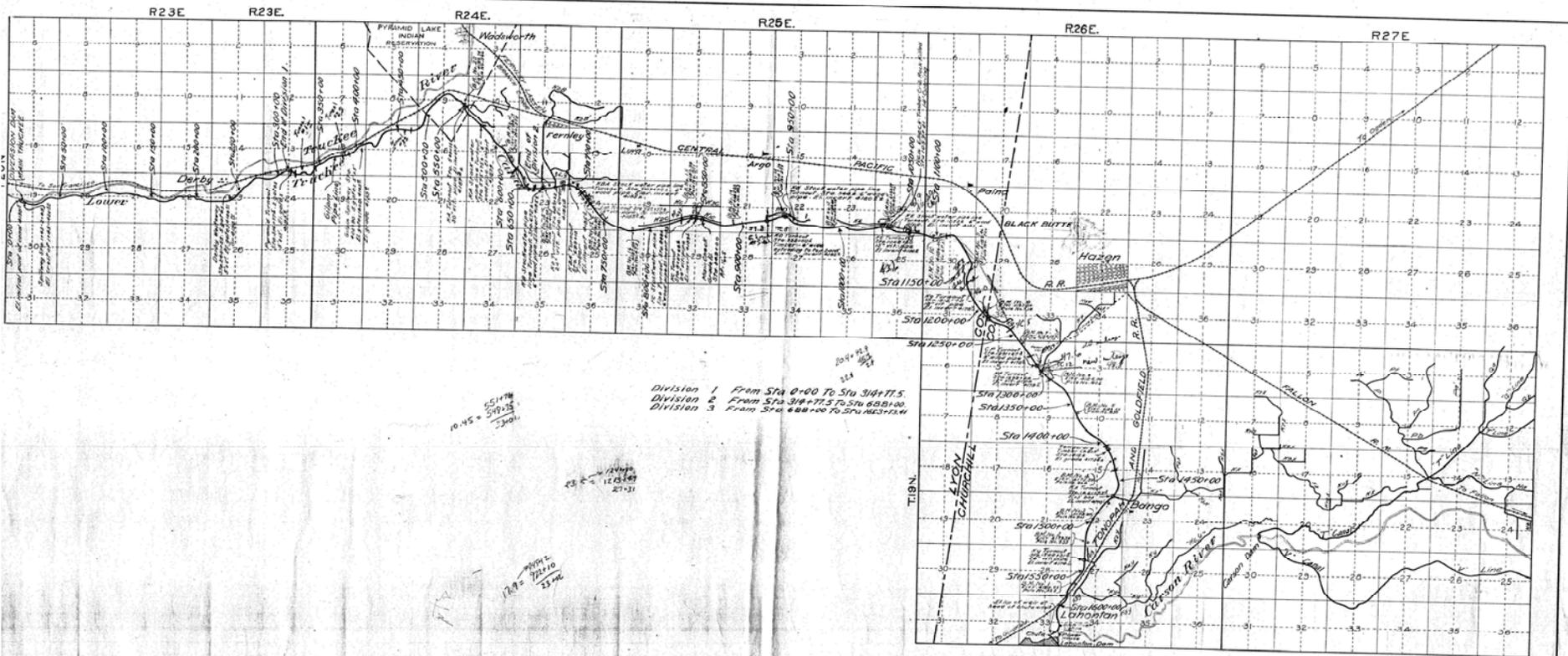
# KEY TO PRESERVING CANAL INFRASTRUCTURE

- Partnership- BOR / ID's / Local gov't
- Enhanced by M4E









Division 1 From Sta 0+00 To Sta 318+77.5  
 Division 2 From Sta 318+77.5 To Sta 689+11.4  
 Division 3 From Sta 689+11.4 To Sta 689+11.4

551774  
 579035  
 10.45 = 52.00  
 52.00

1213189  
 27-31

17.9 = 721.10  
 33.42

7198.5  
 4179.12  
 2.87

$162373.81 = 30.75 \text{ mi}^2$   
 5.30

DEPARTMENT OF THE INTERIOR  
 UNITED STATES RECLAMATION SERVICE  
 TRUCKEE-CARSON PROJECT NEW  
 MAP OF TRUCKEE CANYON SHOWING LOCATIONS AND ELEVATION OF DIVERSION POINTS OF DIVERSION SCALE 1 INCH = 1 MILE  
 Drawn: S.F.E. Recommended:  
 Checked: Approved:  
 6/86-15 CALLEN NEW  
 11/18/88







