

# INTERNATIONAL BOUNDARY AND WATER COMMISSION UNITED STATES AND MEXICO



Upper Rio Grande Flood Control Project

Levee Improvement

MARCH 23, 2010

# Rio Grande Canalization Project

- Constructed 1938-1943
- Water delivery and flood control project
- 106 river miles from Percha Dam, NM to American Dam at El Paso, TX
- 130 miles of flood control levees



# American Recovery and Reinvestment Act of 2009



- \$220 million appropriated to USBIWC
- Funds for rehabilitating Rio Grande flood control levees in Texas and New Mexico
- Purpose of Recovery Act is to create and save jobs, promote economic recovery, and invest in infrastructure for long-term economic benefit.

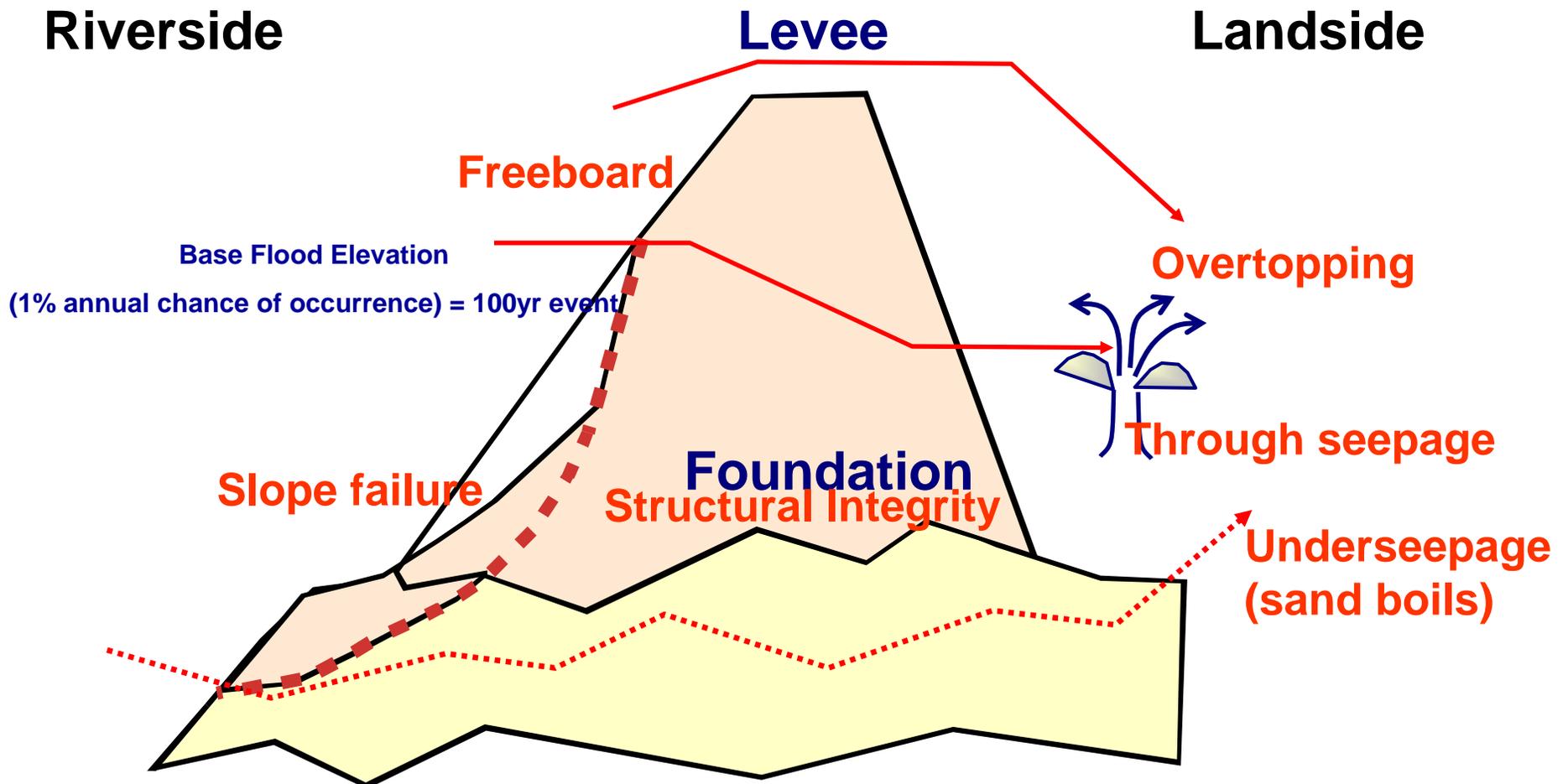


# Why Perform Levee Improvements?

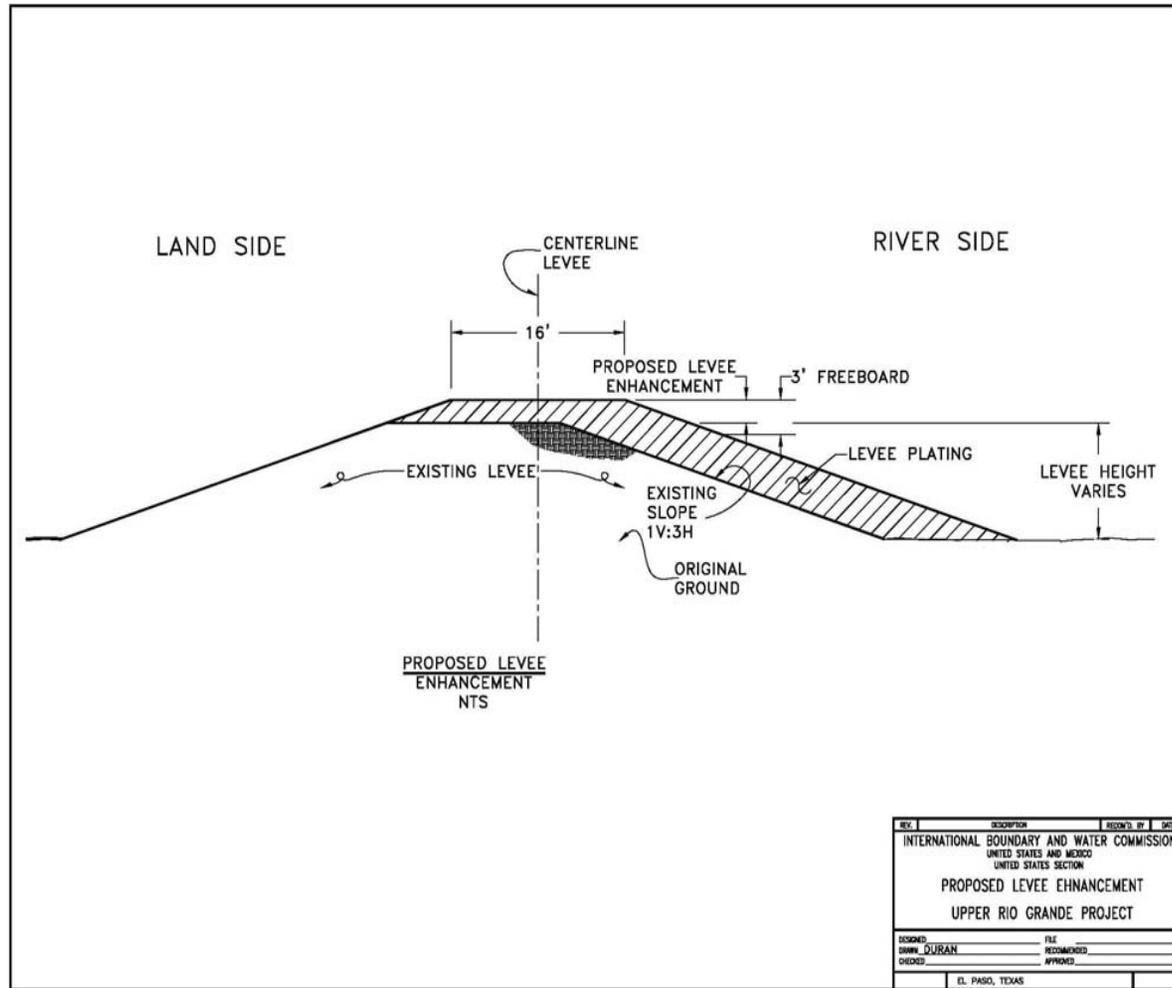
- FEMA is updating flood insurance rate maps
- FEMA requires levees to contain the 100-year flood with 3 ft. freeboard
- USIBWC notified FEMA in 2006 that it could not certify all levees as meeting this requirement



# Levee Terminology



# Levee Enhancement Typical Section



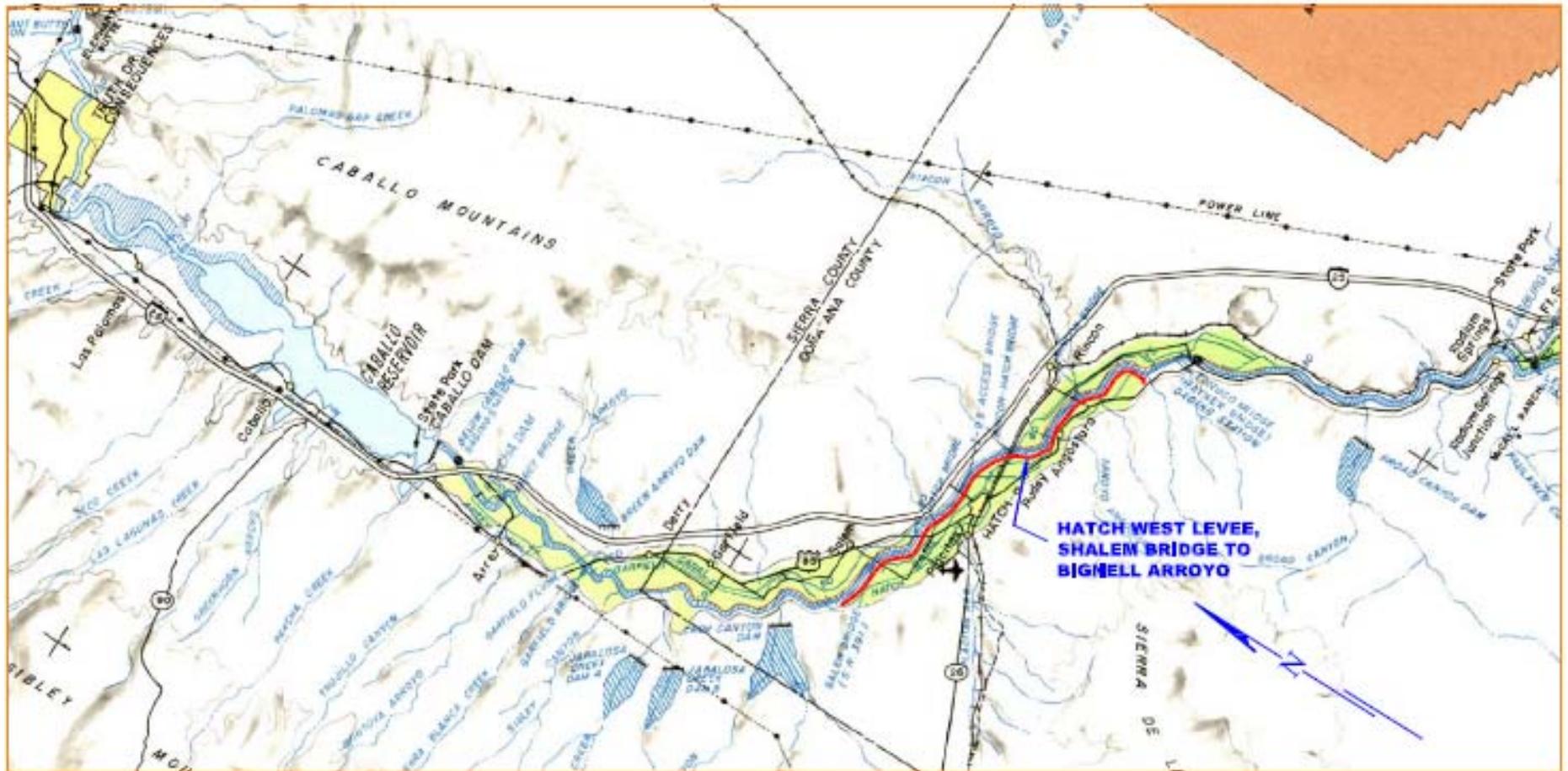
# Levee Status – Doña Ana County

## ■ Hatch Area Levees

- West Levee
- Hatch Siphon to Bignell Arroyo, Levee Enhancement, Structure Improvements
  - Award Construction Contract December 2009
  - Construct Flood Control Improvements April 2010- Feb. 2011

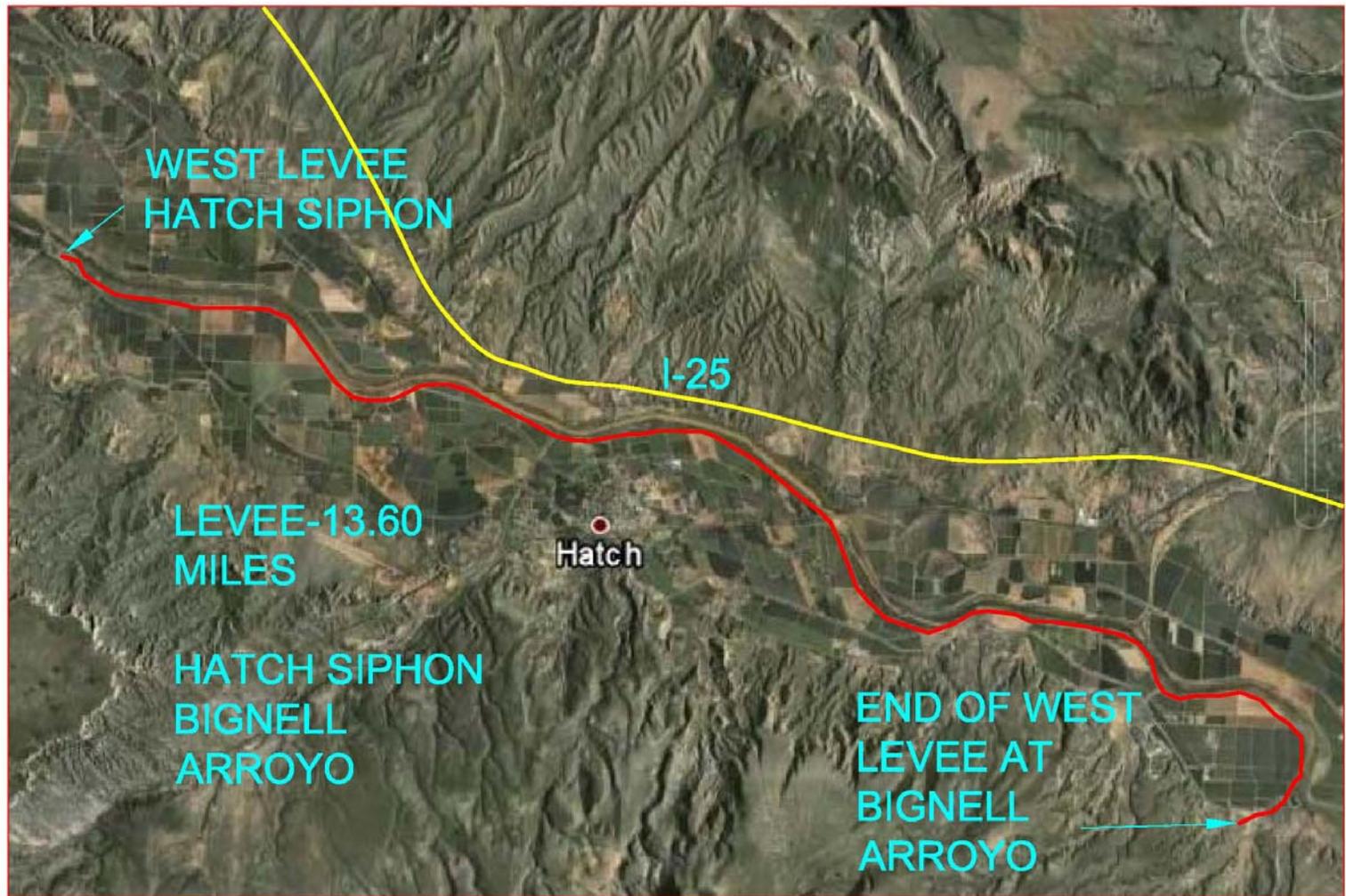


# Hatch West Levee Enhancement

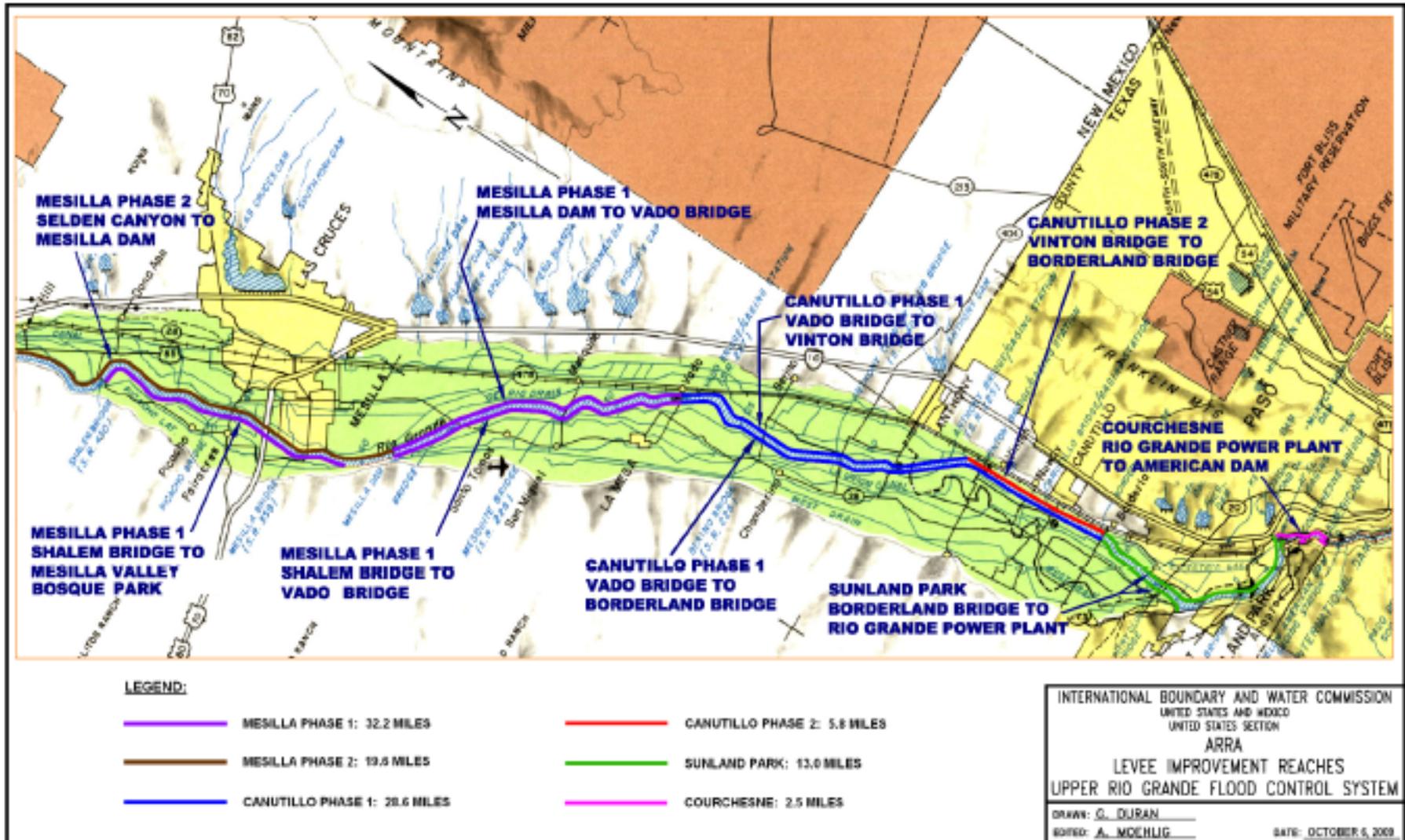


— HATCH WEST LEVEE,  
SHALEM BRIDGE TO  
BIGMELL ARROYO—  
13.5 MILES

# WEST LEVEE HATCH SIPHON TO BIGNELL ARROYO



# Levee Status – Doña Ana County



# Levee Status – Doña Ana County

## ■ Mesilla West Phase 1

- West Levee
- Shalem Bridge to Vado Bridge, Enhancement, Structure Improvements
  - Award Construction Contract December 2009
  - Construct Improvements March 2010- Oct. 2010



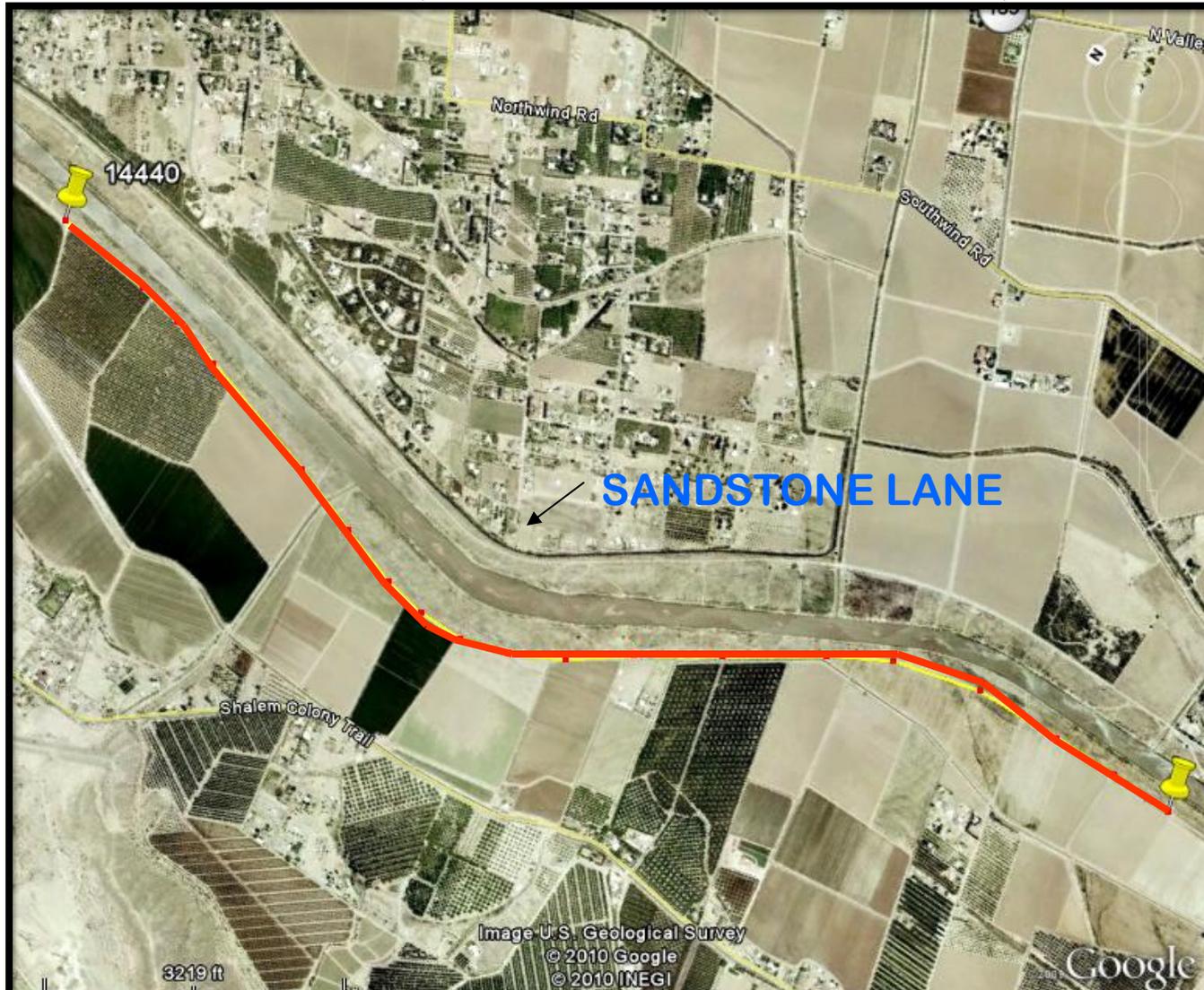
# MESILLA WEST PHASE 1

MAR. 10, 2010 TO MAY 29, 2010



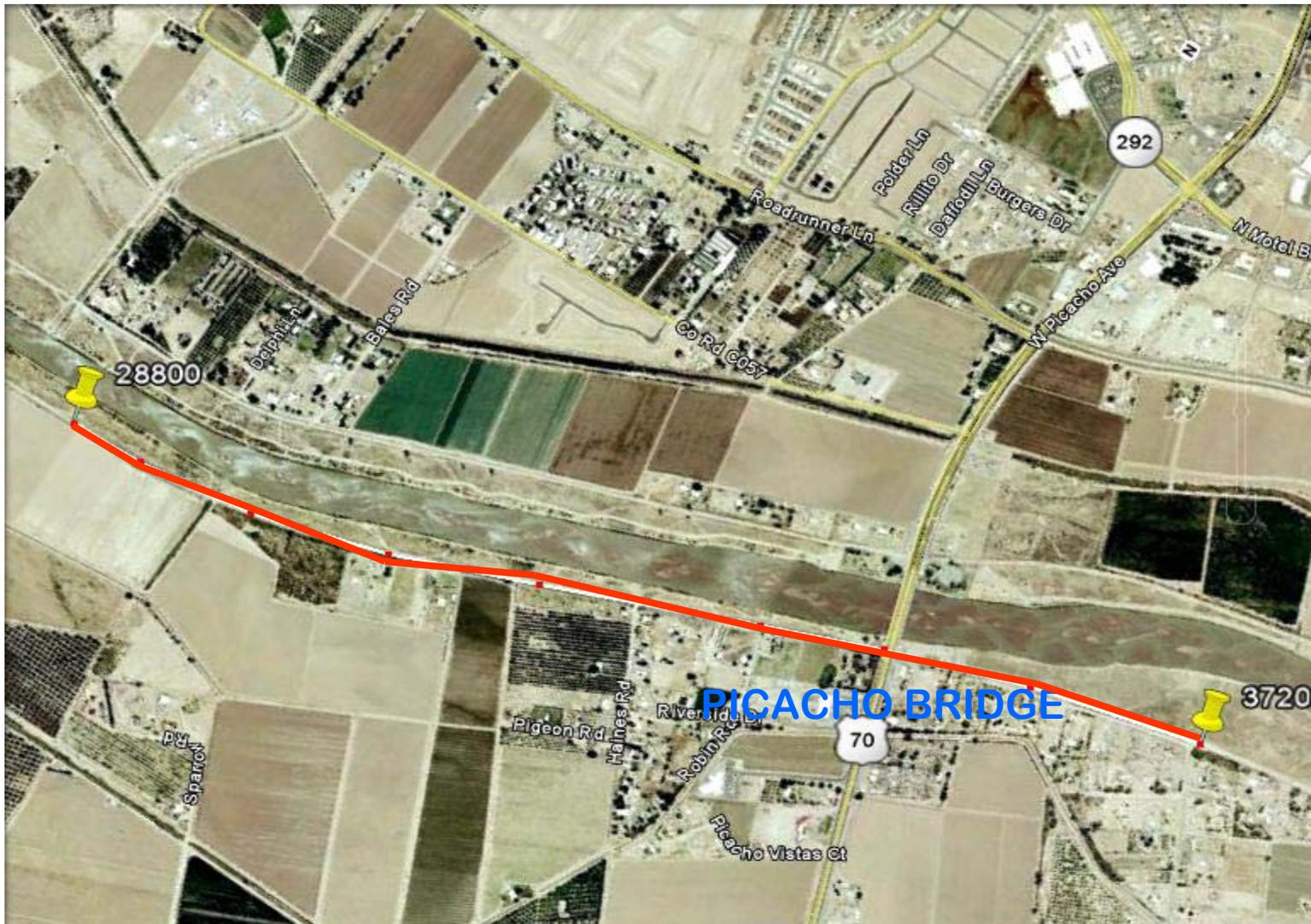
# MESILLA WEST PHASE 1

MAR. 20, 2010 TO JUNE 22, 2010



# MESILLA WEST PHASE 1

APRIL 14, 2010 TO JULY 18, 2010



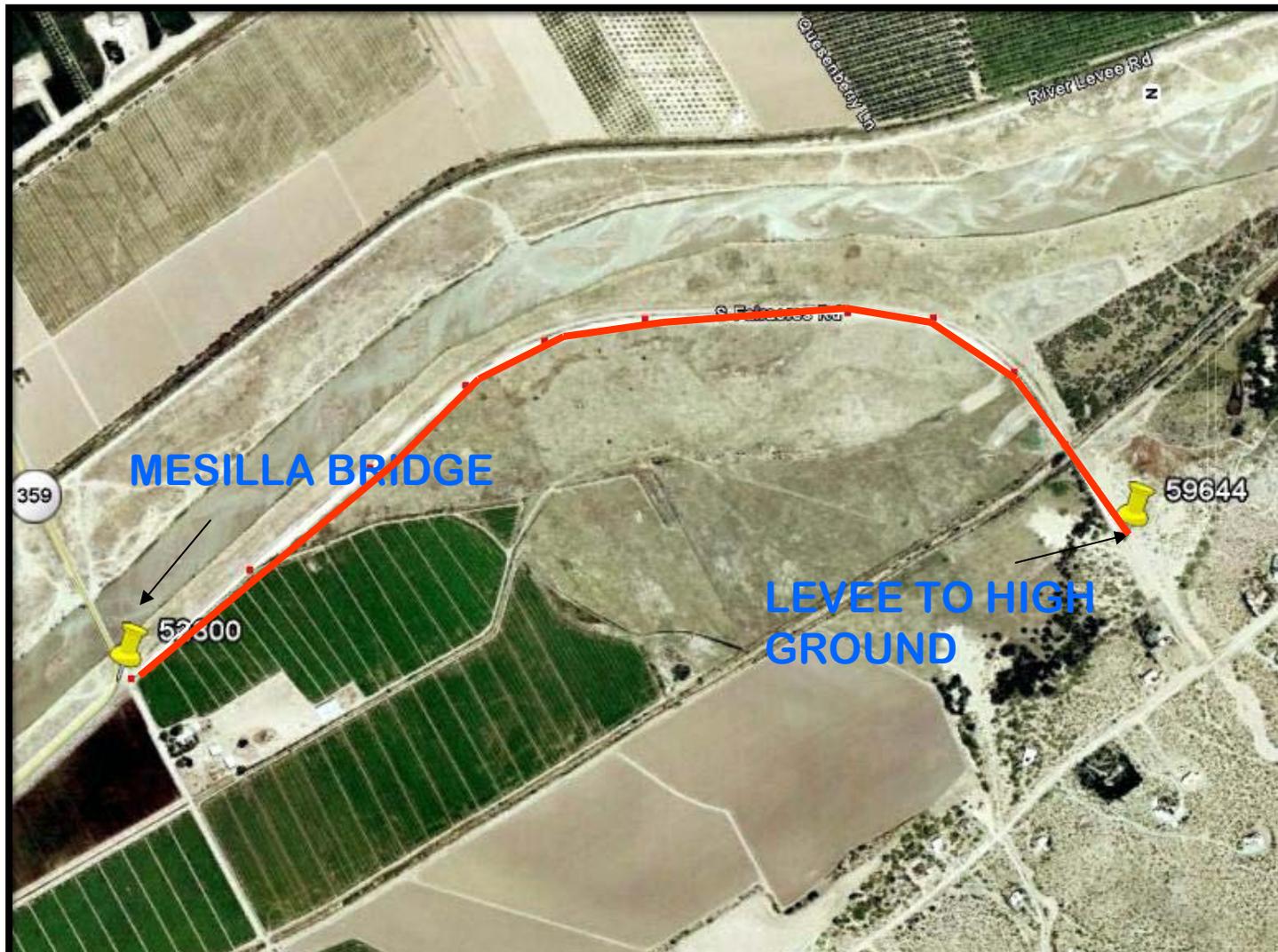
# MESILLA WEST PHASE 1

MAY 6, 2010 TO AUGUST 15, 2010



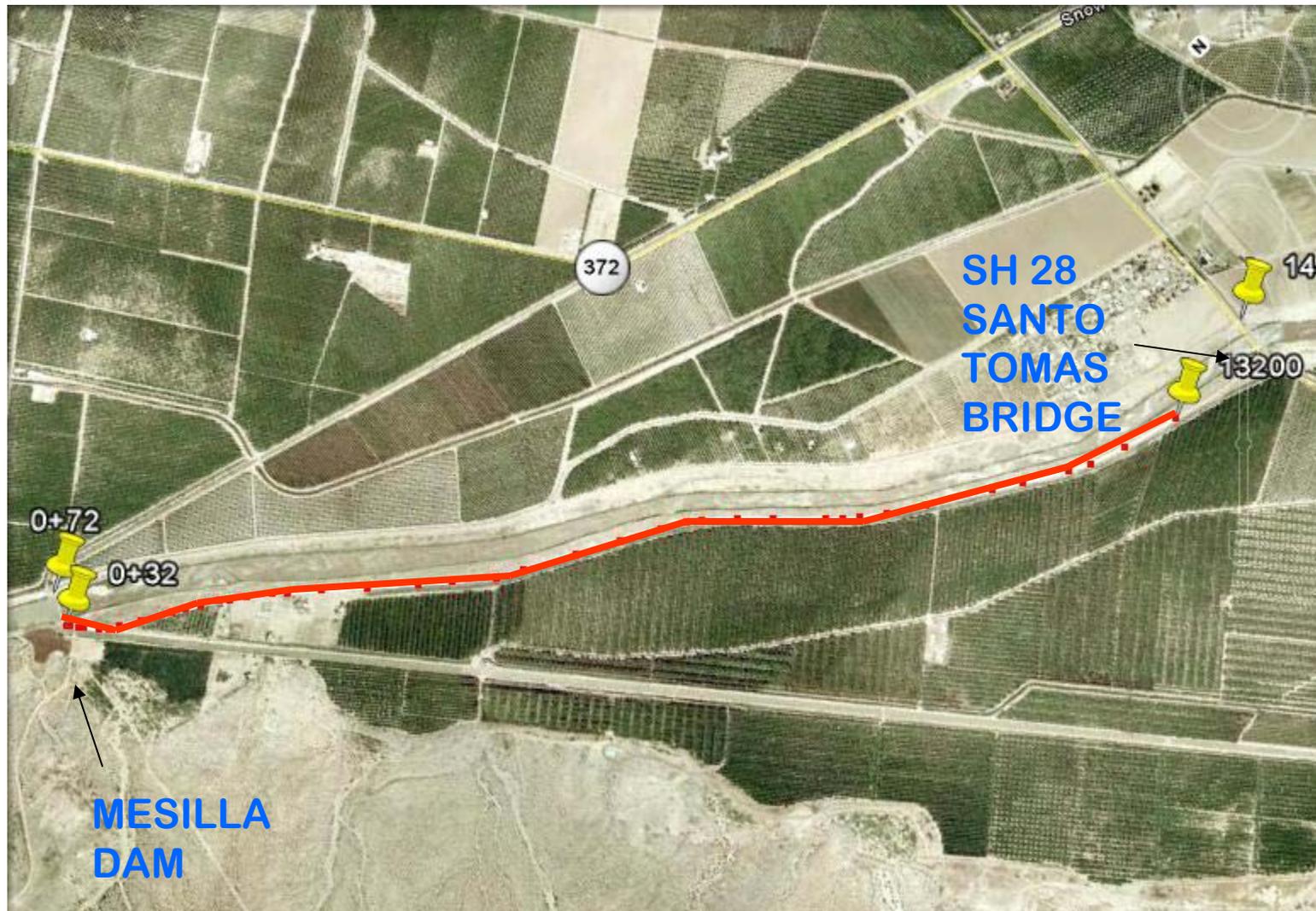
# MESILLA WEST PHASE 1

MAY 17, 2010 TO SEPTEMBER 5, 2010



# MESILLA WEST PHASE 1

MARCH 2, 2010 TO JUNE 6, 2010



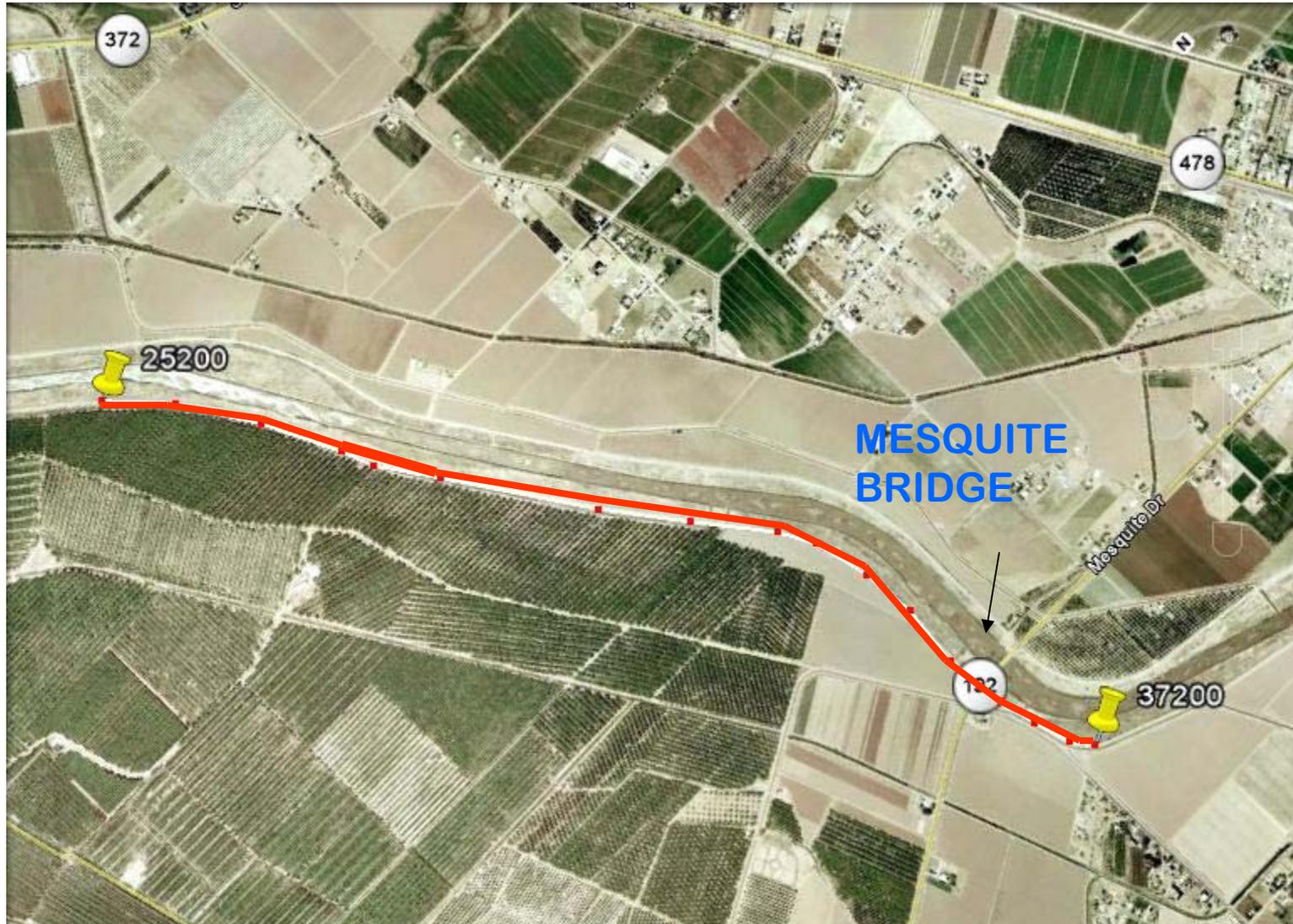
# MESILLA WEST PHASE 1

## MARCH 20, 2010 TO JULY 2, 2010



# MESILLA WEST PHASE 1

APRIL 5, 2010 TO JULY 27, 2010



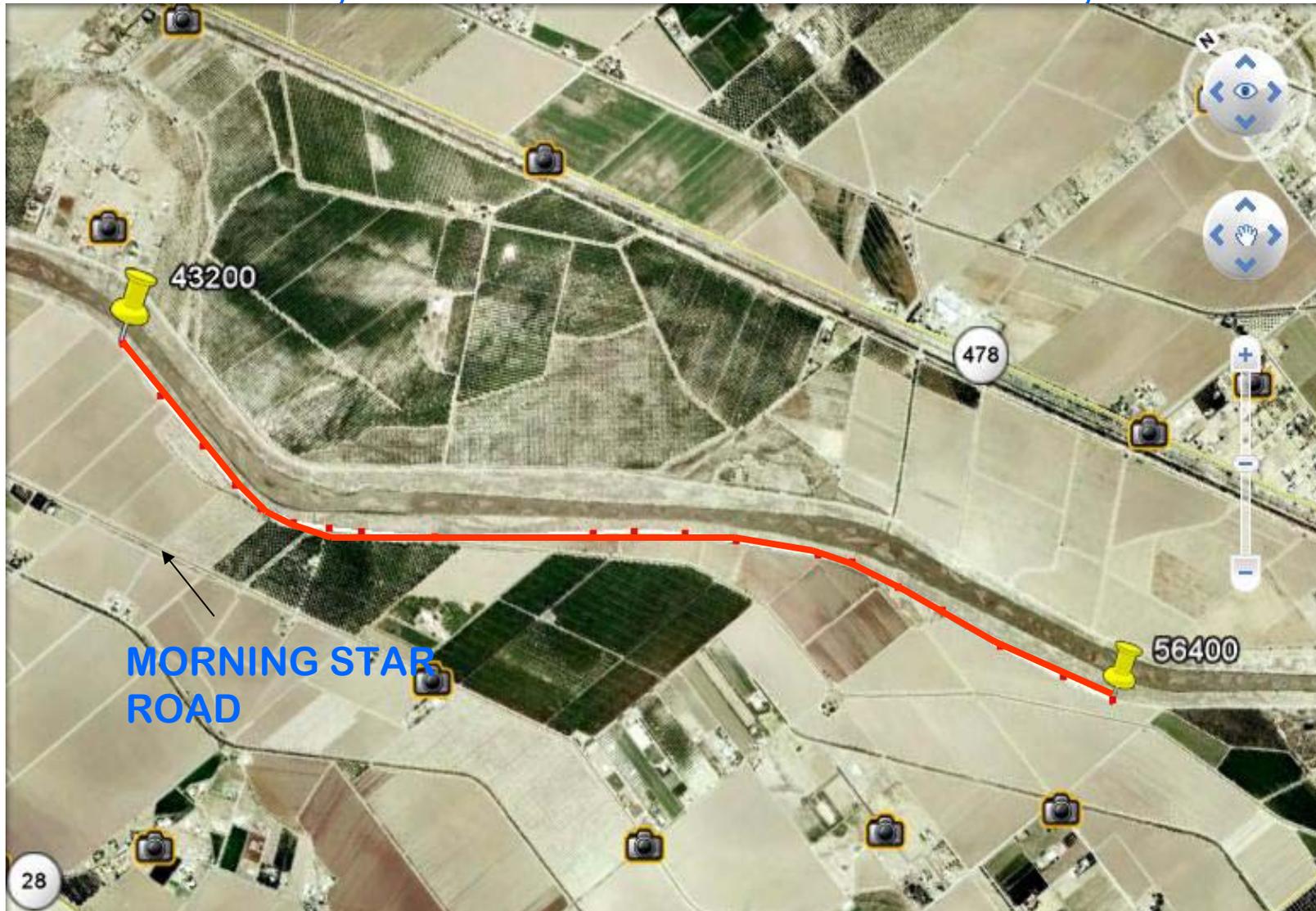
# MESILLA WEST PHASE 1

MAY 10, 2010 TO AUGUST 29, 2010



# MESILLA WEST PHASE 1

MAY 18, 2010 TO SEPTEMBER 13, 2010



# MESILLA WEST PHASE 1 JUNE 4, 2010 TO OCTOBER 6, 2010



# Levee Status – Doña Ana County

## Mesilla East Phase 1

- East Levee
- Mesilla Dam to Vado Bridge Enhancement, Structure Improvements
  - Award Construction Contract December 2009
  - June 2010 to January 2011



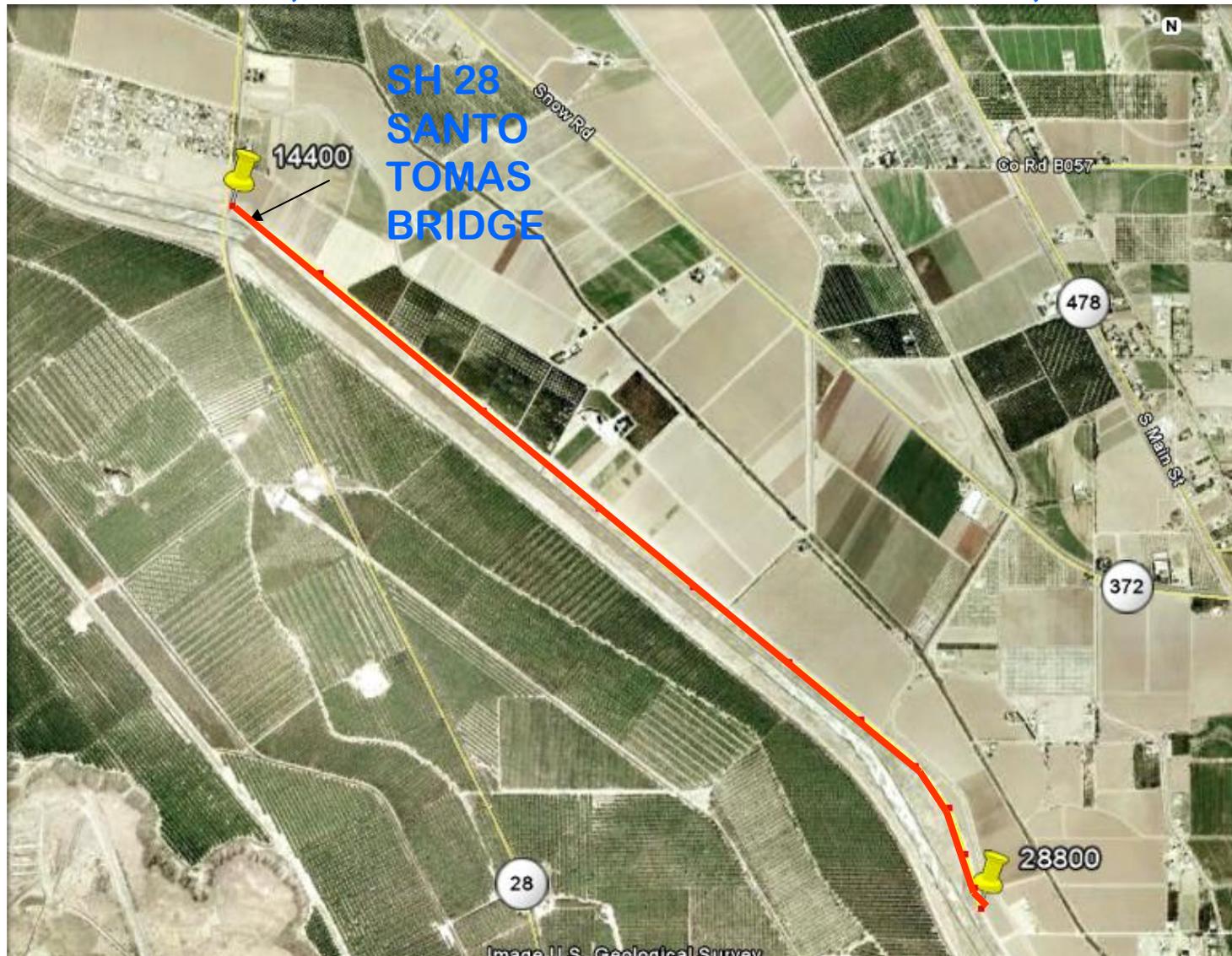
# MESILLA EAST PHASE 1

JUNE 22, 2010 TO OCTOBER 29, 2010



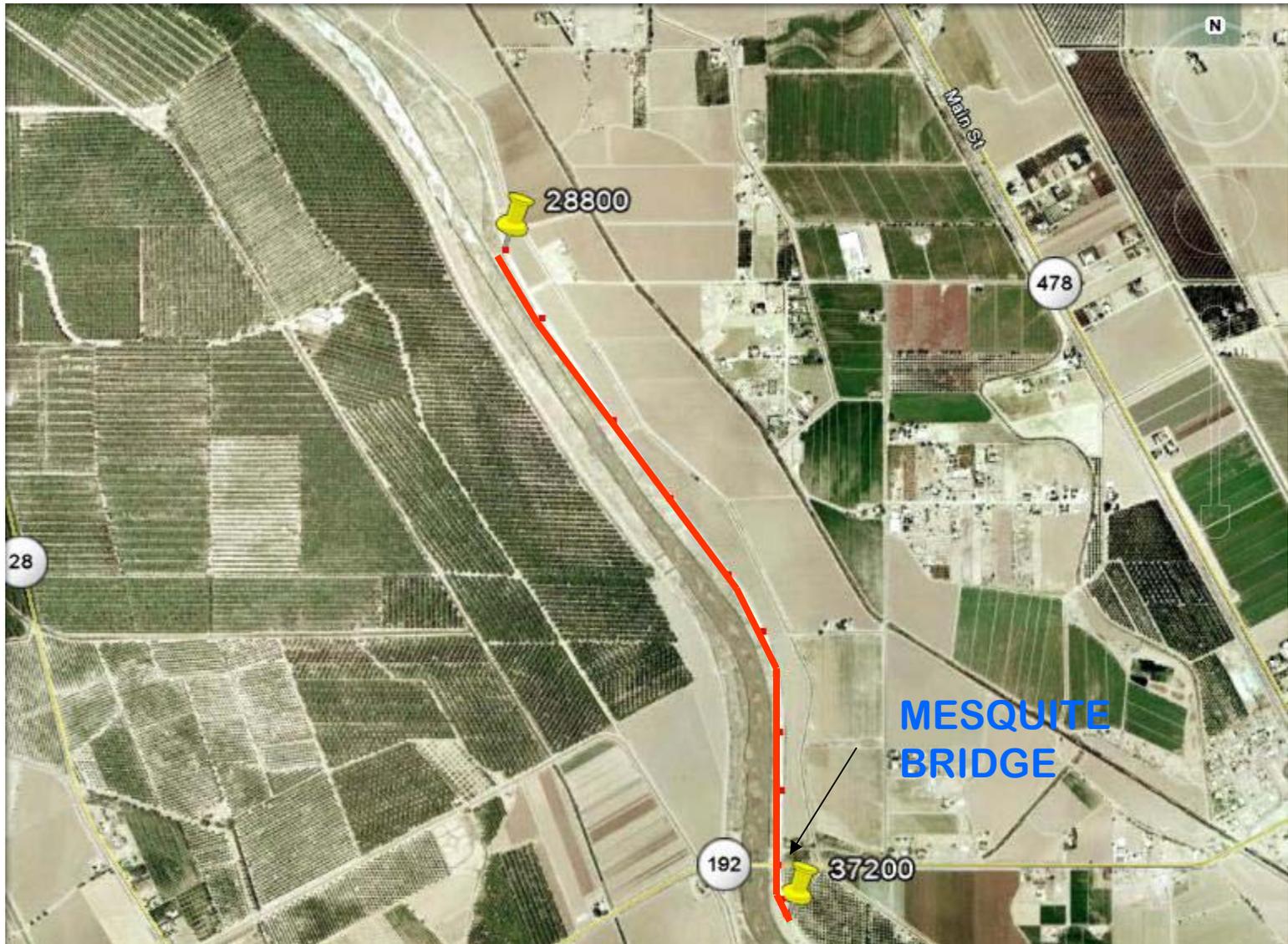
# MESILLA EAST PHASE 1

JULY 12, 2010 TO NOVEMBER 22, 2010

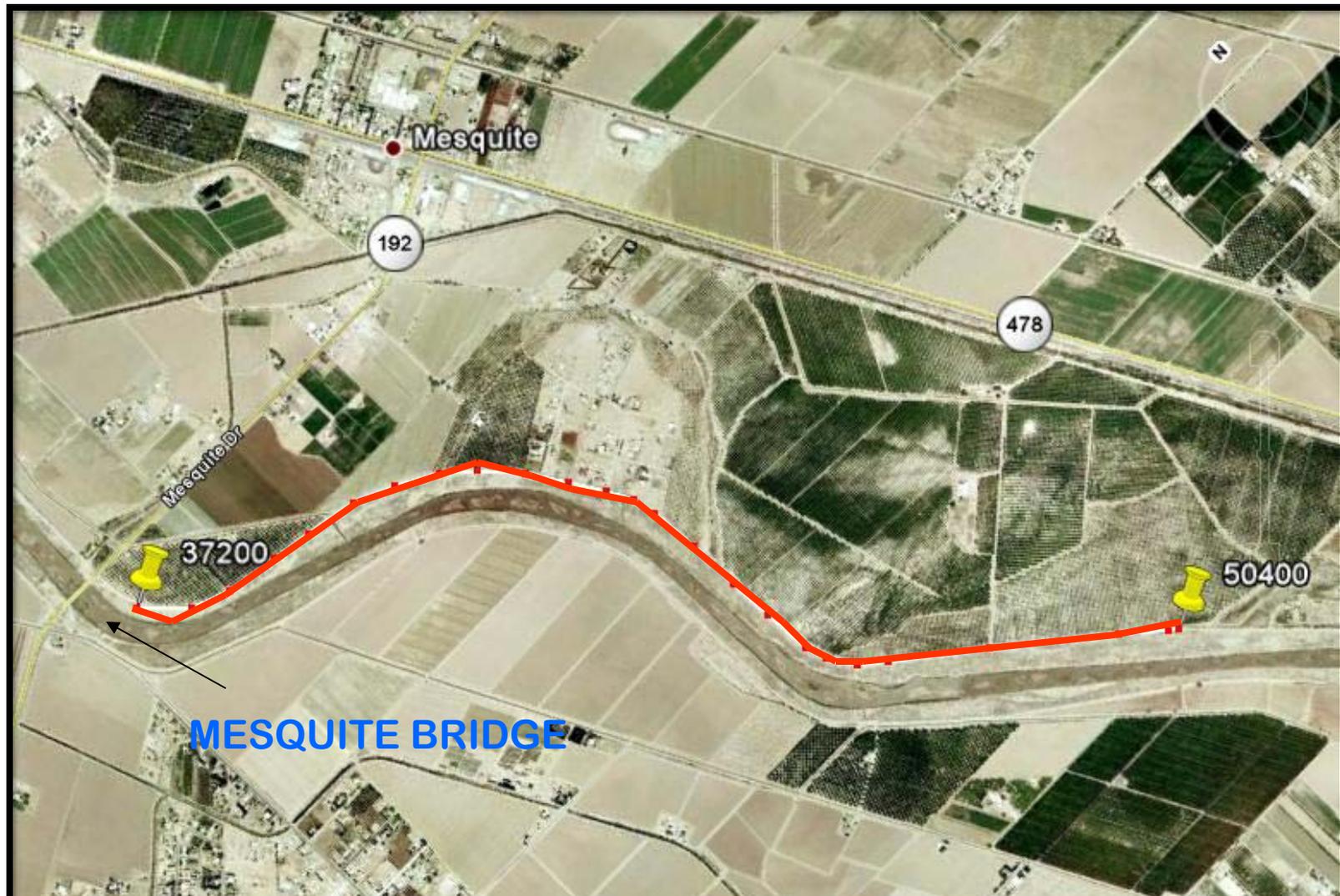


# MESILLA EAST PHASE 1

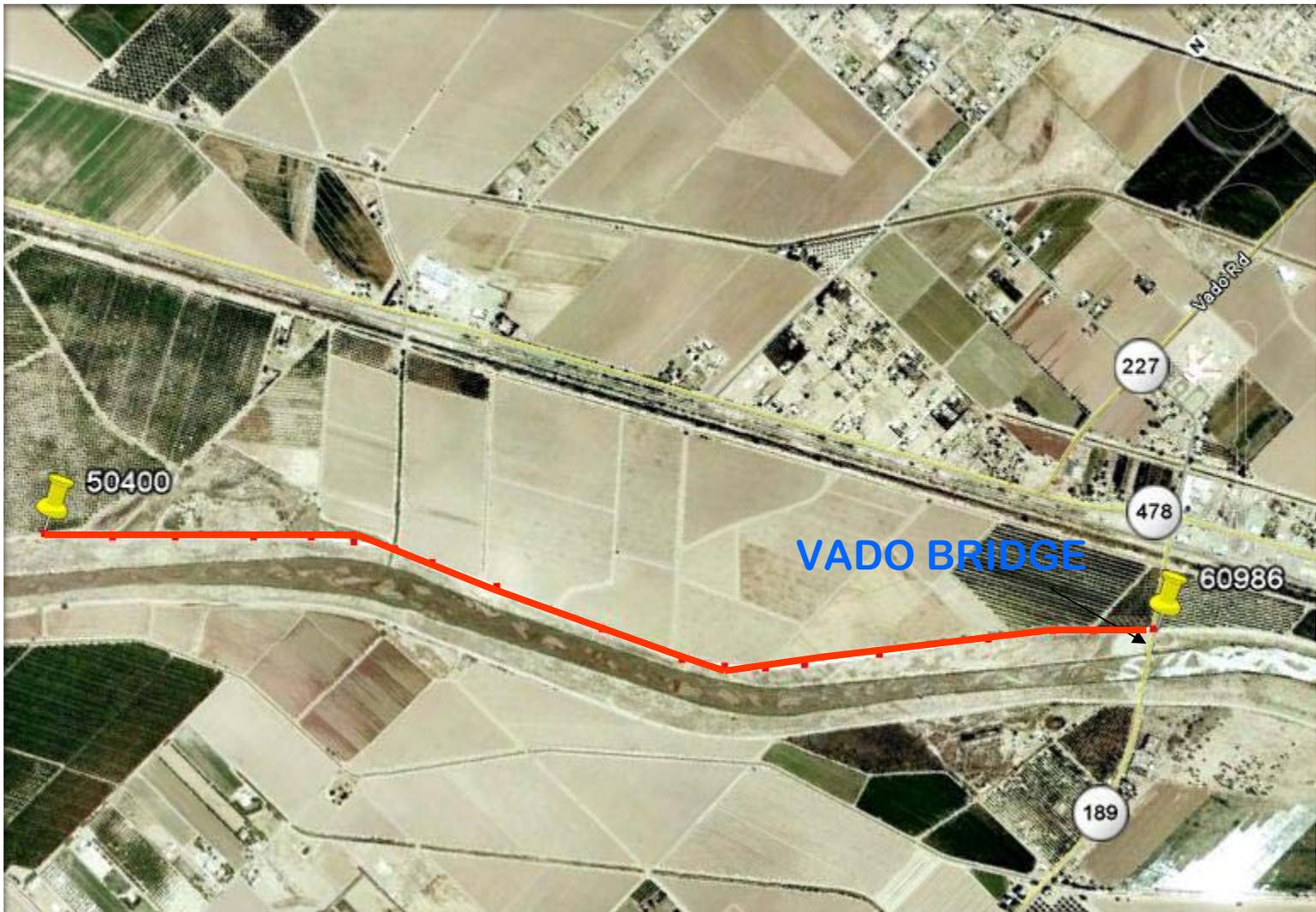
AUGUST 3, 2010 TO DECEMBER 14, 2010



# MESILLA EAST PHASE 1 SEPTEMBER 4, 2010 TO JANUARY 13, 2011



# MESILLA EAST PHASE 1 OCTOBER 3, 2010 TO JANUARY 26, 2011



# Haul Route Levees South of Mesilla Dam



# Haul Route Levees North of Mesilla Dam



# Haul Route Levees North of Vado Bridge



# Levee Status – El Paso/Doña Counties

## ■ Canutillo Phase 1

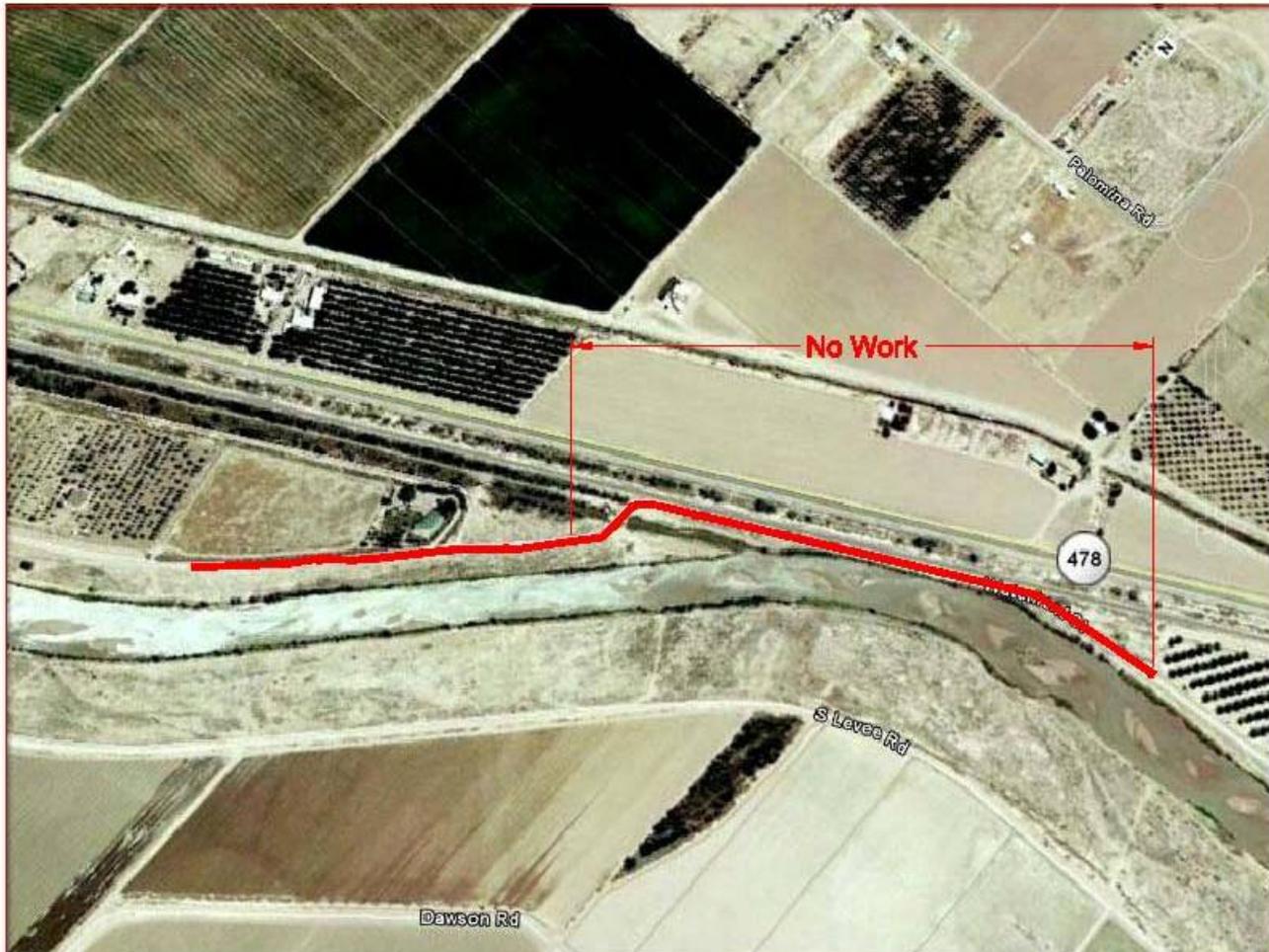
- East Levee
- Vado Bridge to Vinton Bridge, Levee Enhancement, Structure Improvements
  - Award Construction Contract December 2009
  - March 2010 to February 2011



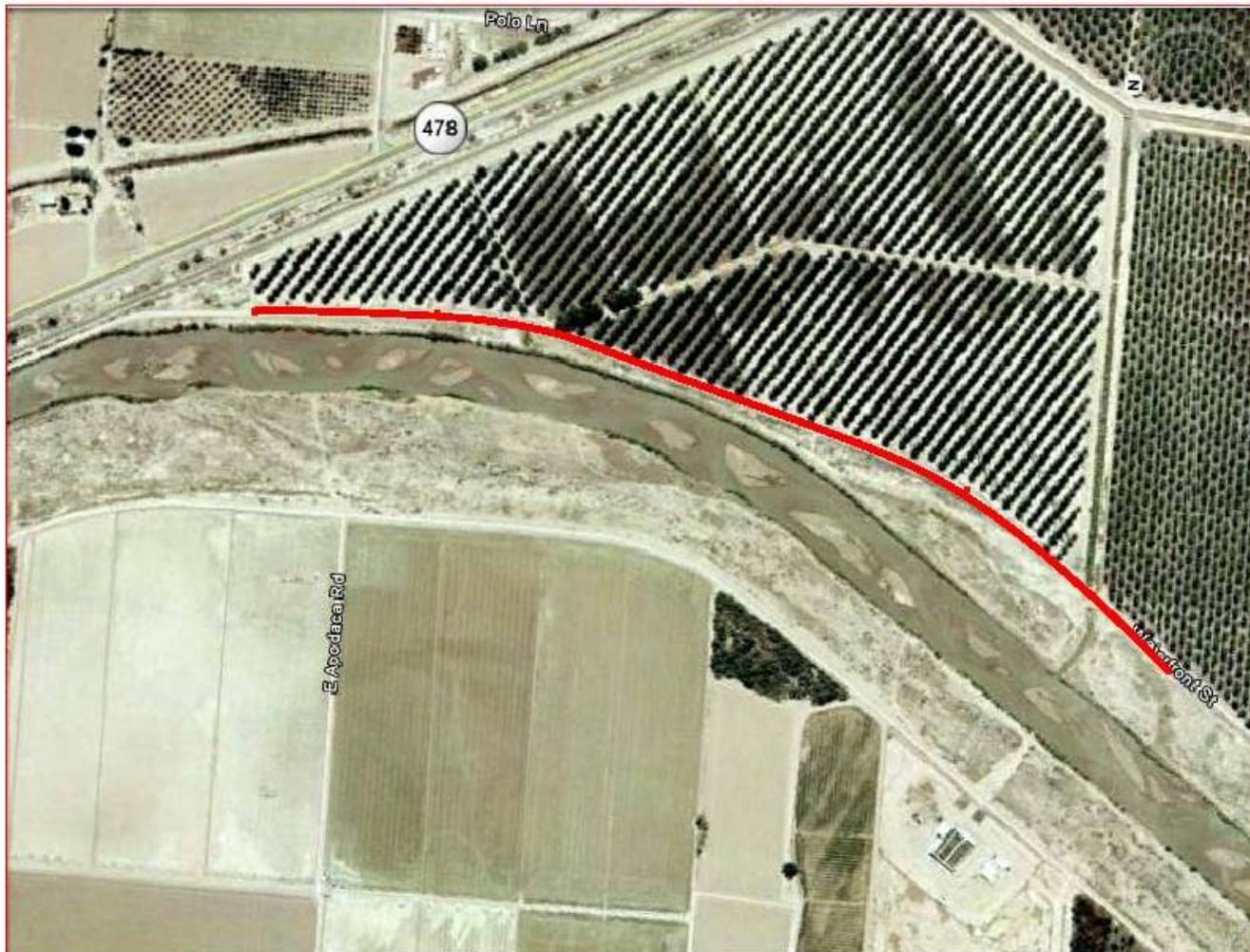
# CANUTILLO EAST PHASE1 – EAST LEVEE ENHANCEMENT MAR. 26, 2010 TO APR. 22, 2010



# CANUTILLO PHASE 1 – EAST LEVEE EHNANCEMENT APRIL 14, 2010 TO MAY 11, 2010



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT MAY 2, 2010 TO MAY 28, 2010



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT

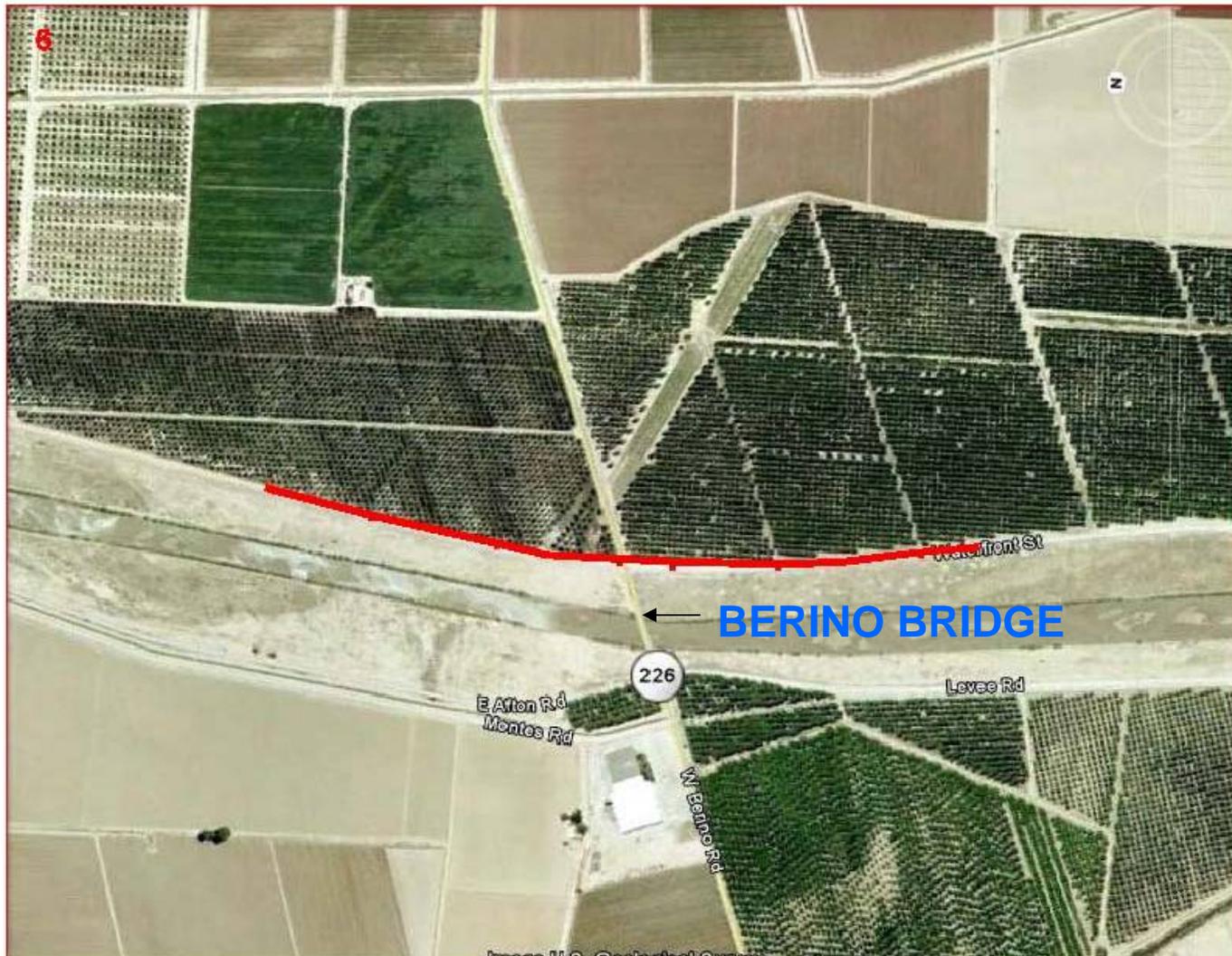
MAY 20, 2010 TO JUNE 17, 2010



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT JUNE 9, 2010 TO JULY 7, 2010



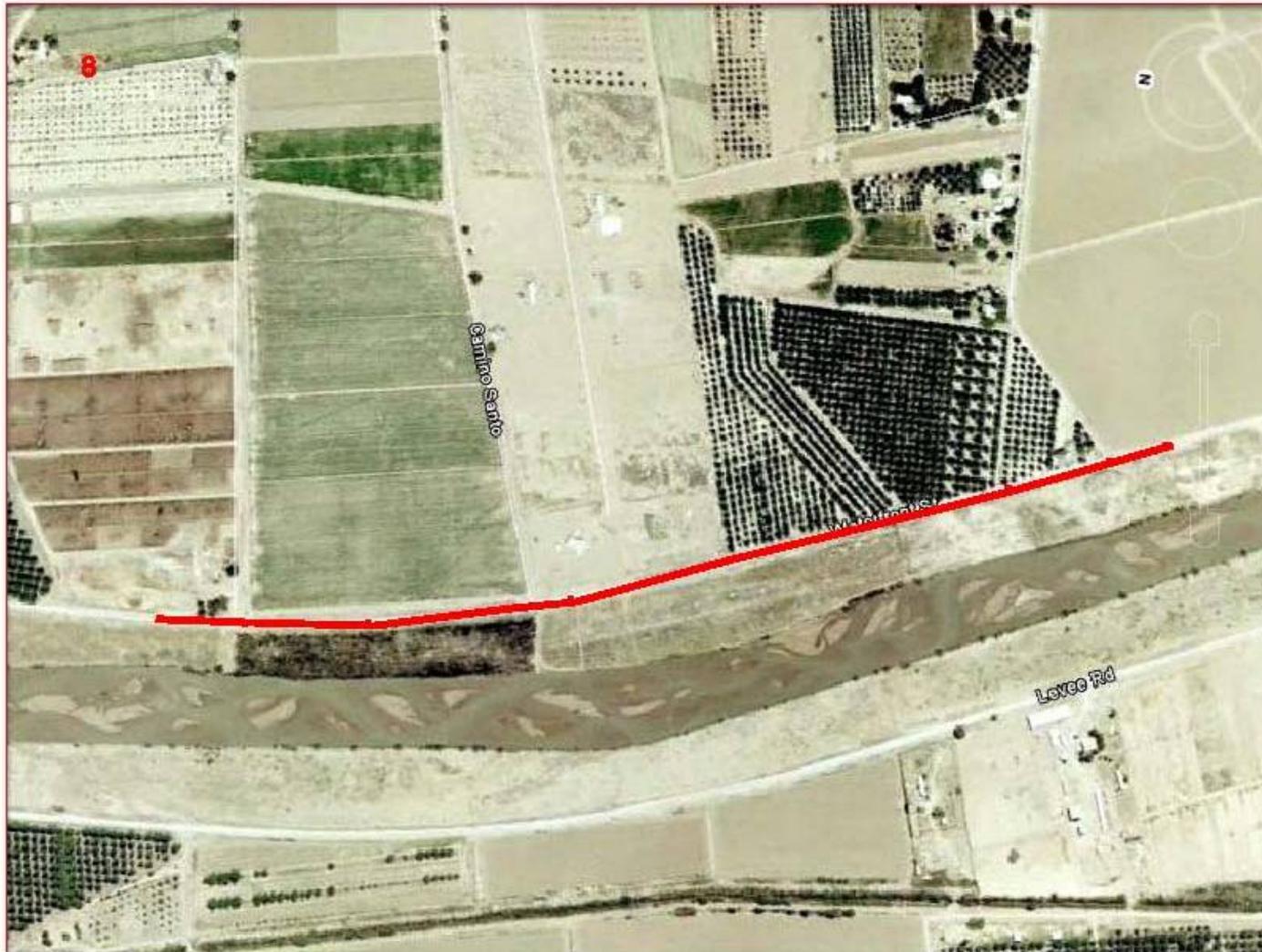
# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT JUNE 15, 2010 TO JULY 26, 2010



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT JULY 7, 2010 TO AUGUST 12, 2010



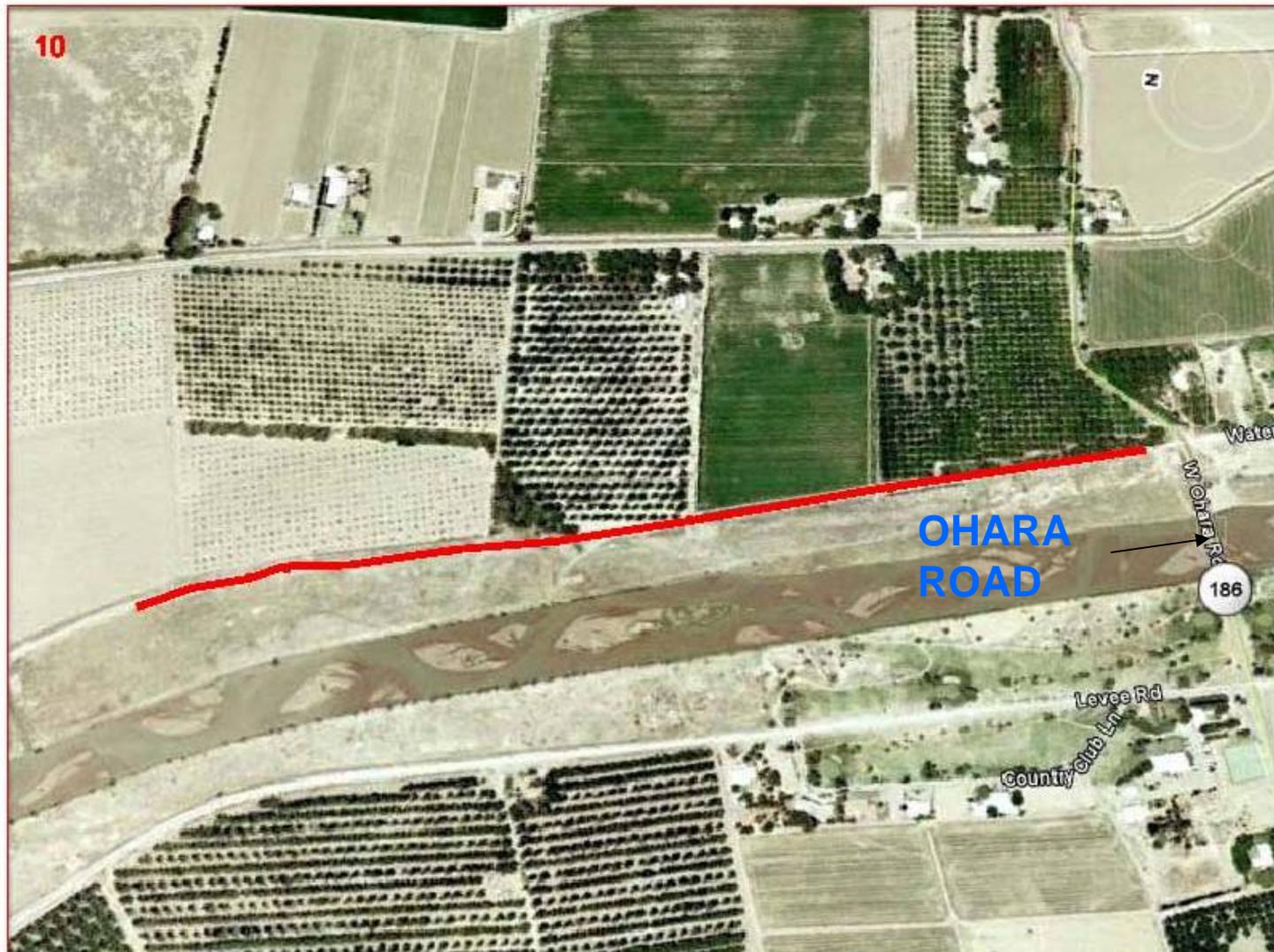
# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT AUGUST 4, 2010 TO AUGUST 31, 2010



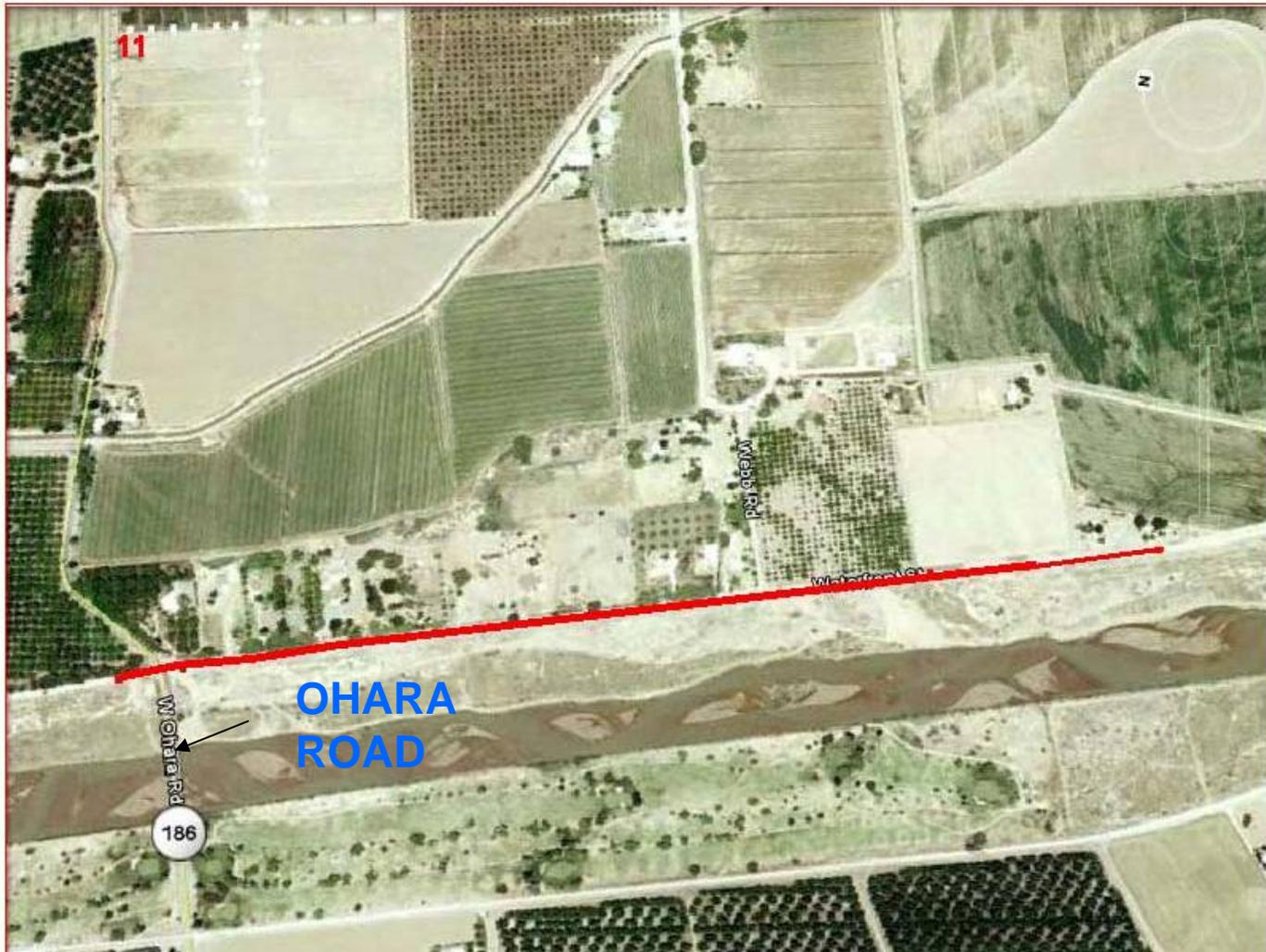
# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT AUGUST 13, 2010 TO SEPTEMBER 20, 2010



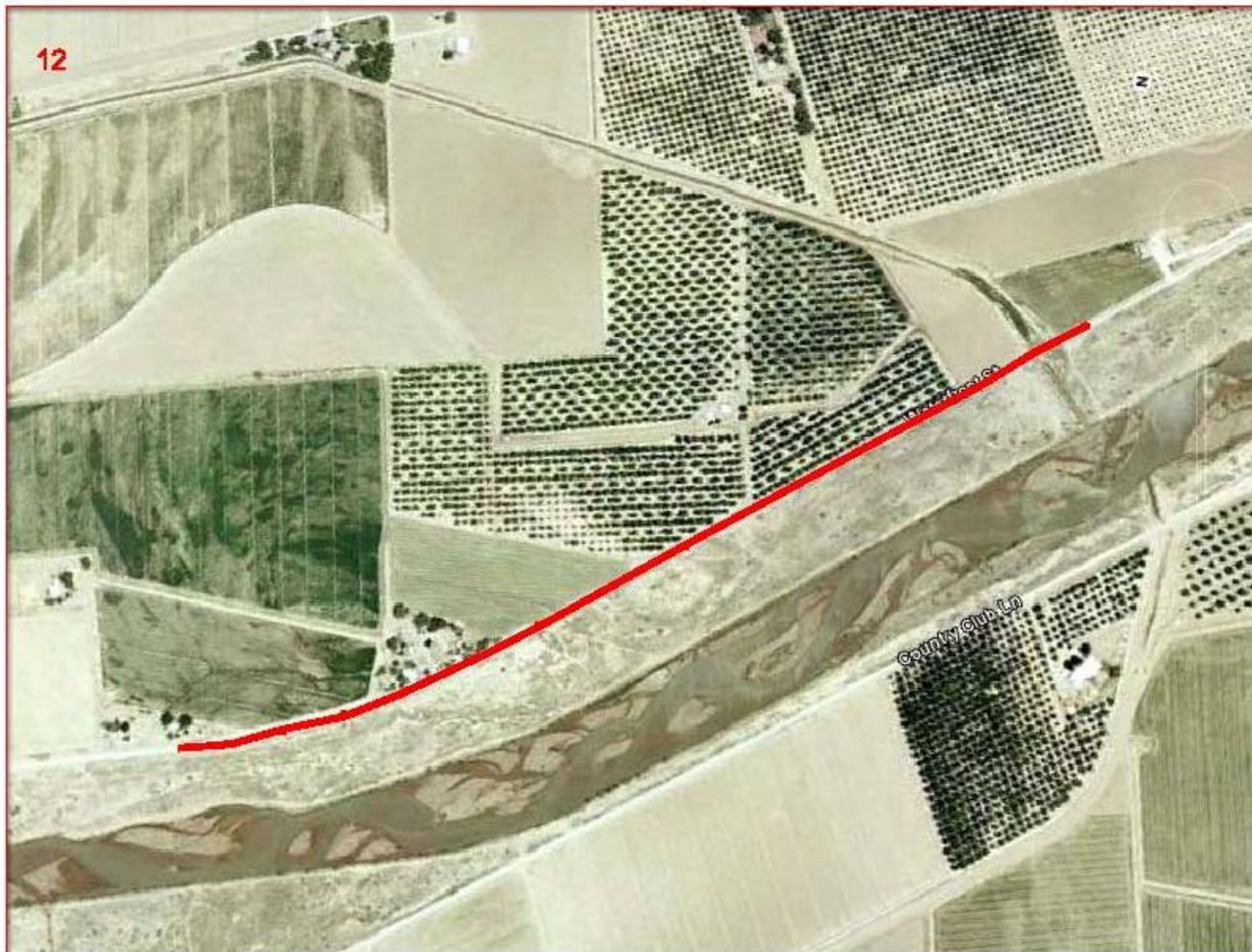
# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT SEPTEMBER 10, 2010 TO OCTOBER 7, 2010



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT SEPTEMBER 29, 2010 TO OCTOBER 26, 2010



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT OCTOBER 18, 2010 TO NOVEMBER 12, 2010



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT

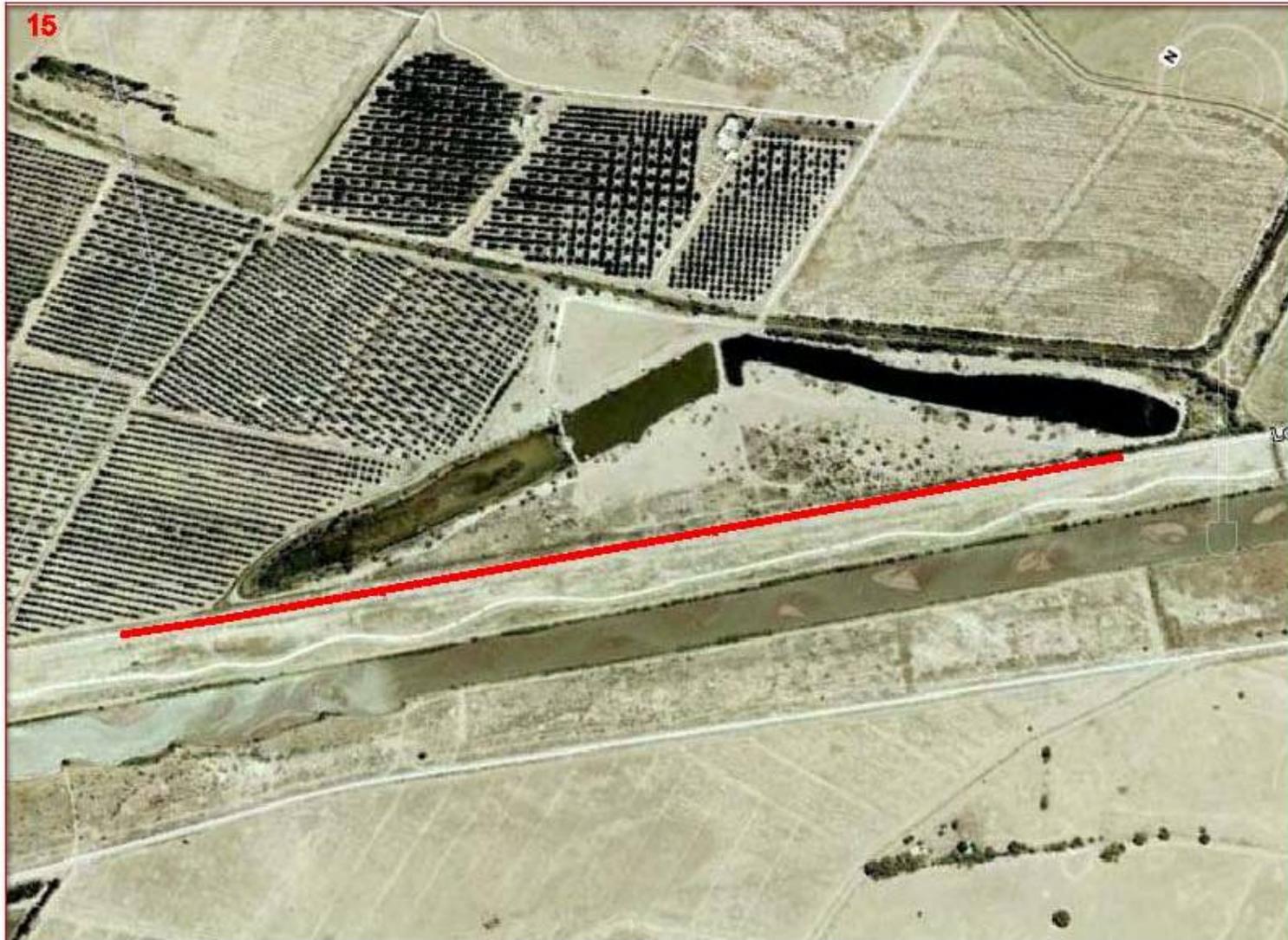
NOVEMBER 4, 2010 TO DECEMBER 3, 2010



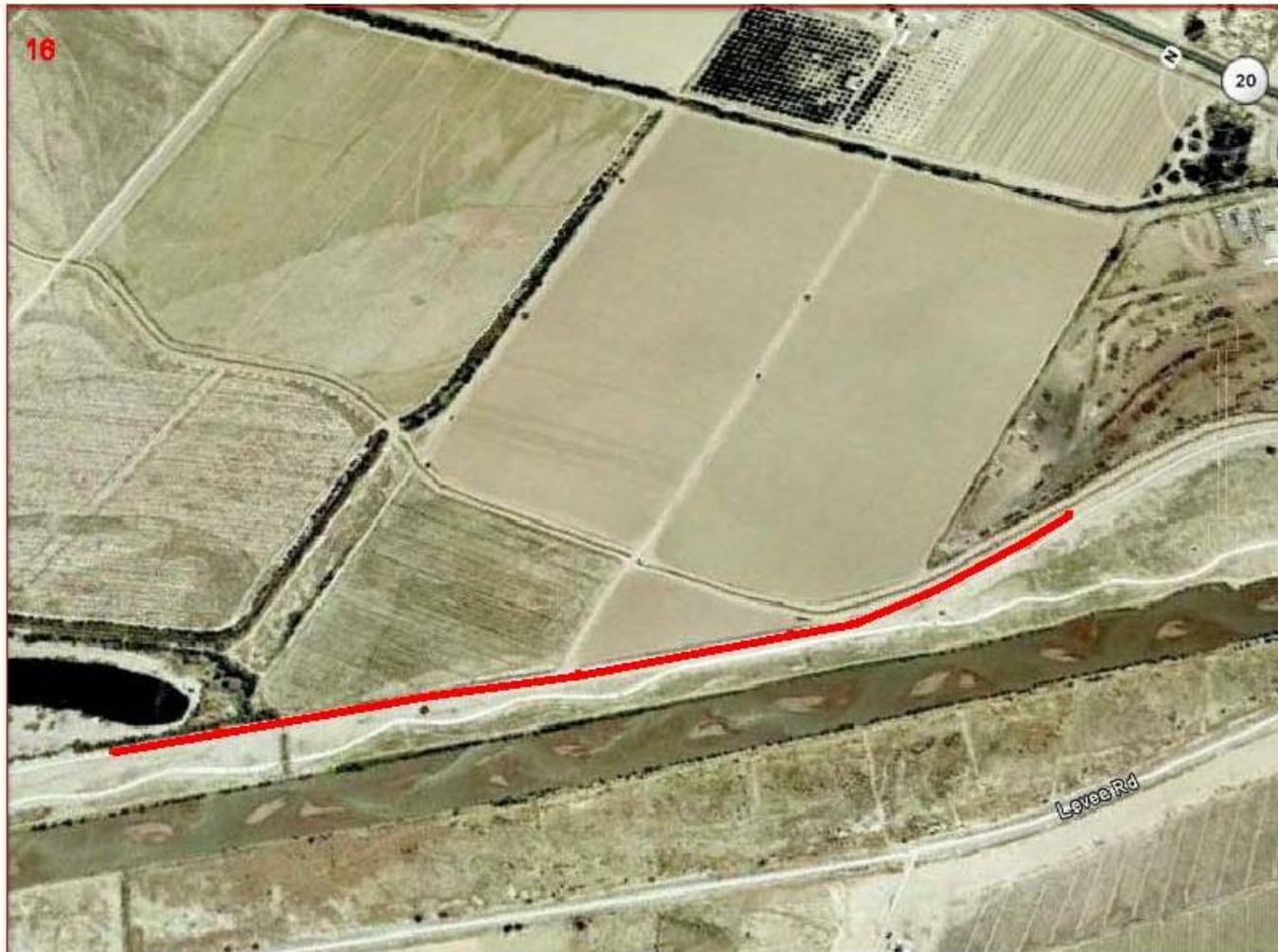
# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT NOVEMBER 23, 2010 TO DECEMBER 22, 2010



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT DECEMBER 14, 2010 TO JANUARY 12, 2011



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT NOVEMBER 30, 2010 TO JANUARY 31, 2011



# CANUTILLO PHASE 1 – EAST LEVEE ENHANCEMENT DECEMBER 9, 2010 TO FEBRUARY 28, 2011



# Levee Status – Doña Ana/El Paso Counties

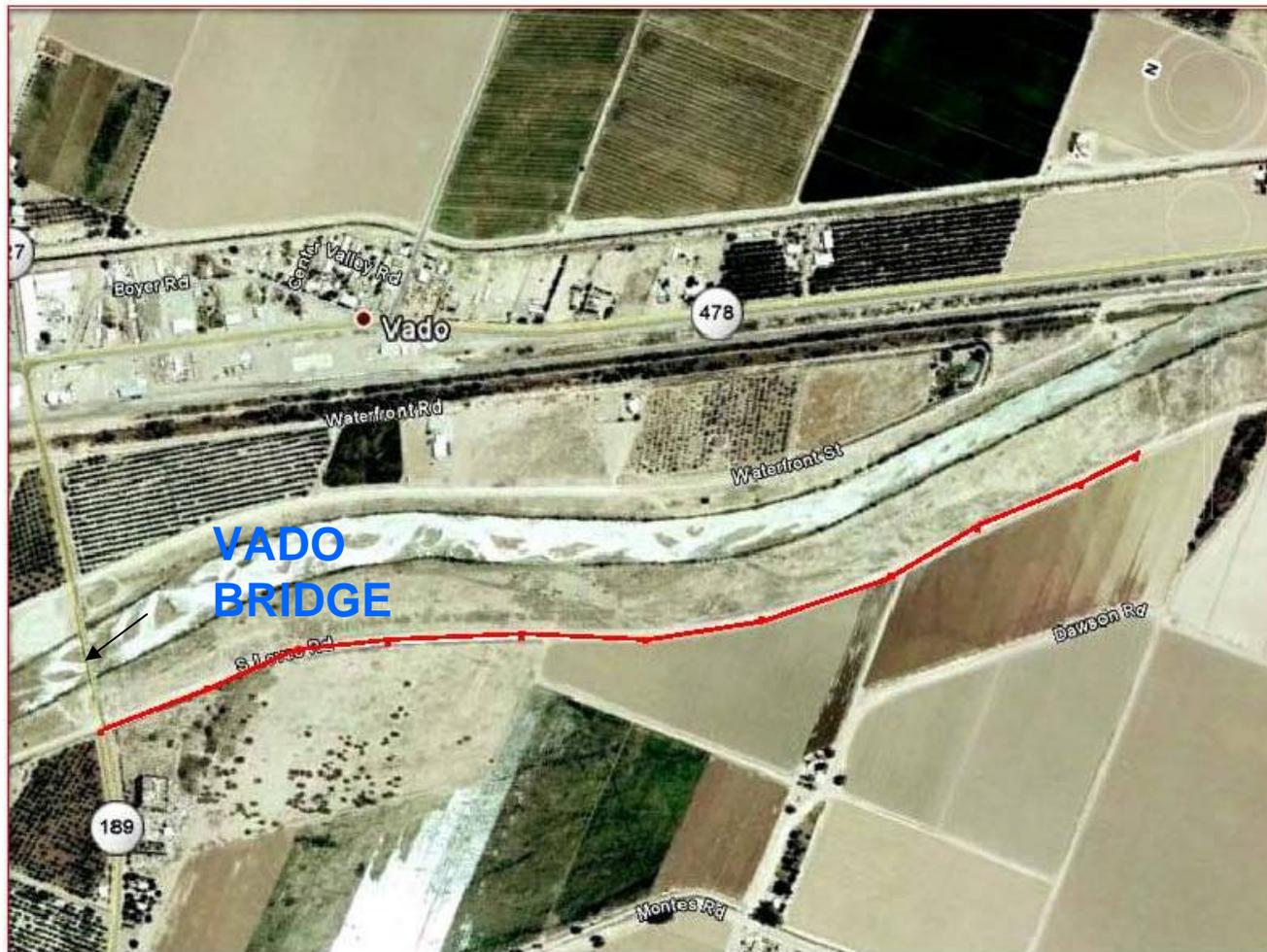
## ■ Canutillo Phase 1

- West Levee
- Vado Bridge to Borderland Bridge, Levee Enhancement, Structure Improvements
  - Award Construction Contract December 2009
  - Construct Flood Control Improvements March 2010- Feb. 2011



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT

MARCH 26, 2010 TO APRIL 21, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT APRIL 13, 2010 TO MAY 7, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT APRIL 13, 2010 TO MAY 7, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT MAY 17, 2010 TO JUNE 11, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT APRIL 22, 2010 TO JUNE 29, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT JUNE 21, 2010 TO JULY 16, 2010

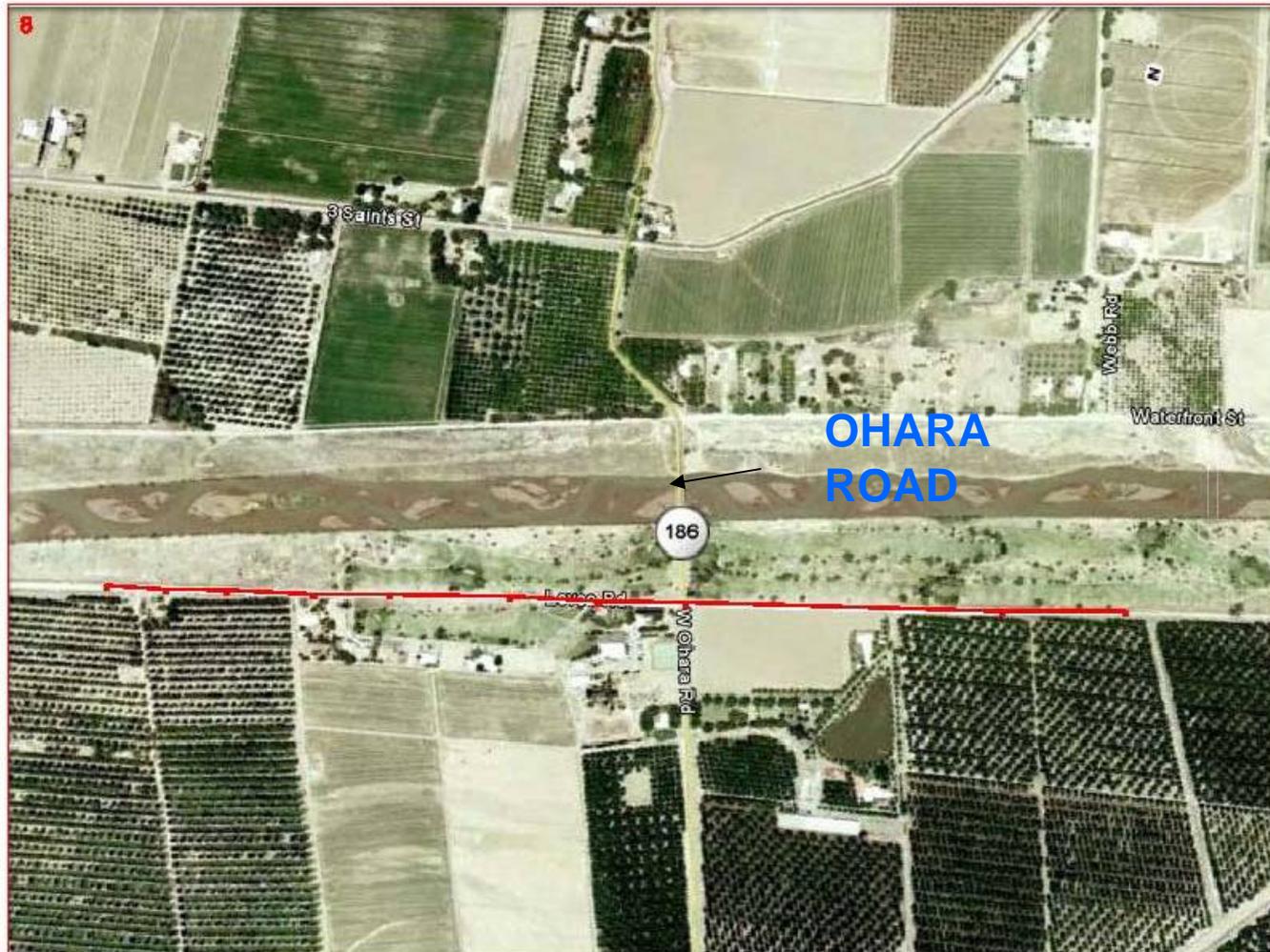


# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT

MAY 14, 2010 TO AUGUST 3, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT MAY 28, 2010 TO AUGUST 19, 2010

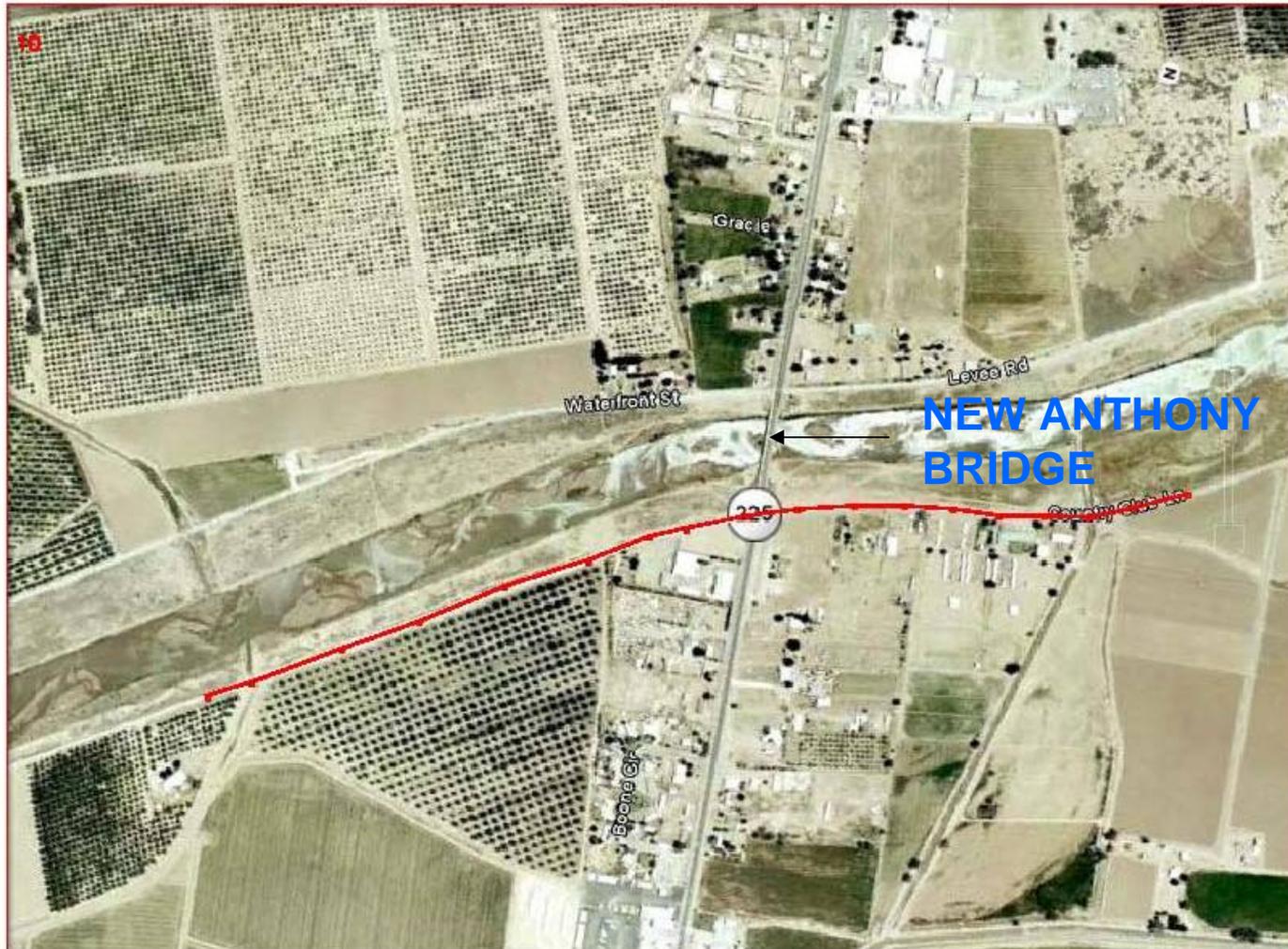


# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT AUGUST 11, 2010 TO SEPTEMBER 7, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT

JUNE 1, 2010 TO SEPTEMBER 23, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT SEPTEMBER 15, 2010 TO OCTOBER 11, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT JUNE 30, 2010 TO OCTOBER 27, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT OCTOBER 19, 2010 TO NOVEMBER 12, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT

JULY 8, 2010 TO DECEMBER 2, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT NOVEMBER 22, 2010 TO DECEMBER 20, 2010



# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT JULY 22, 2010 TO JANUARY 7, 2011



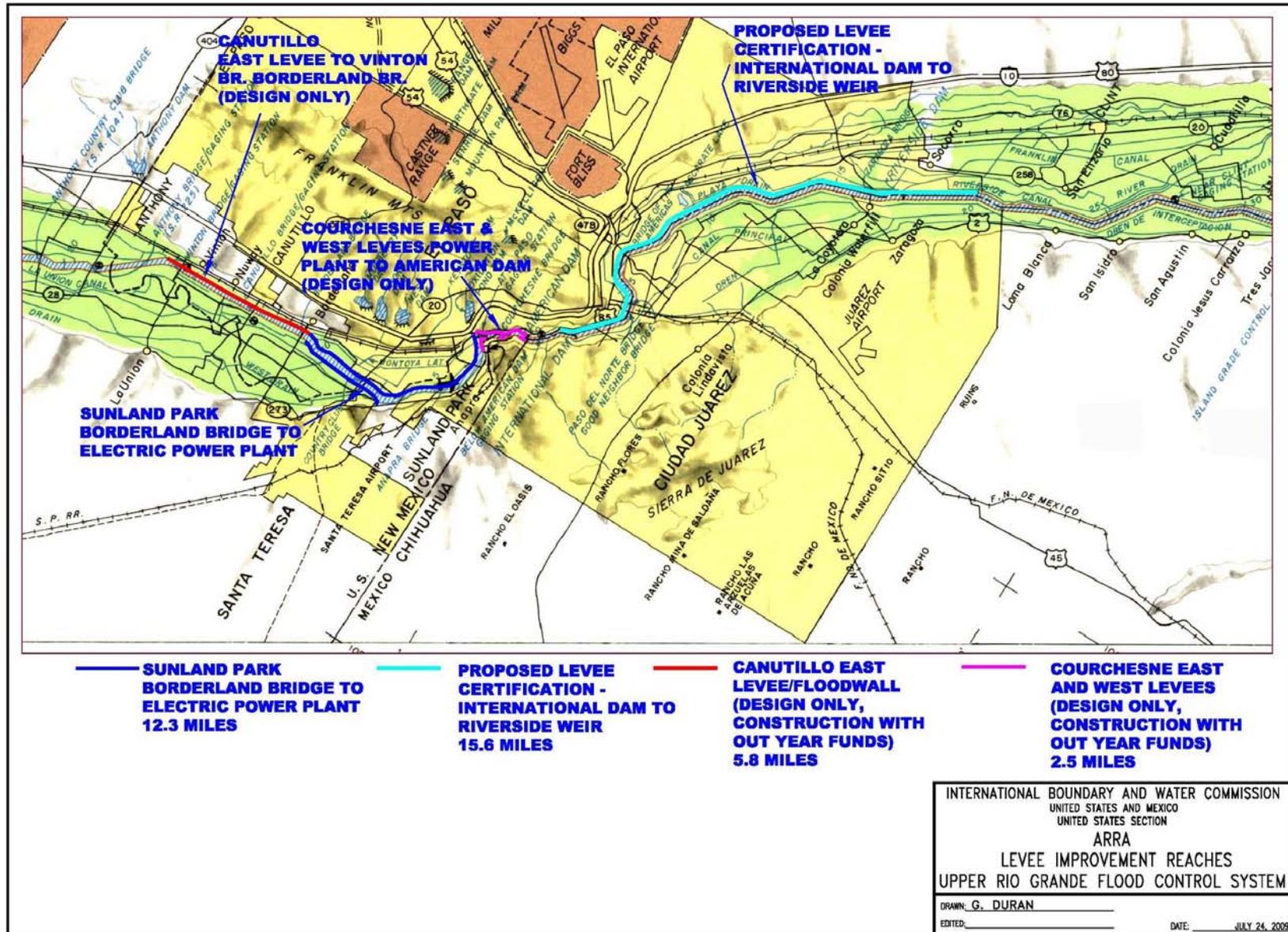


# CANUTILLO PHASE 1 – WEST LEVEE ENHANCEMENT JANUARY 17, 2011 TO FEBRUARY 10, 2011





# Levee Status – El Paso and Doña Ana Counties



# Levee Status – El Paso and Doña Ana Counties

## ■ Canutillo Phase 2

### ■ East Levee

### ■ Vinton Bridge to Borderland Bridge

- USIBWC to contract for Design Services by September 30, 2010
- Construction with out year funds



# Levee Status – El Paso County and Doña Ana Counties

## ■ Sunland Park (Upper Valley)

- East and West Levees
- Borderland Bridge to Rio Grande Power Plant
  - Work initiated with USIBWC in-house crews
  - Remaining work to be awarded to a Contractor
  - Construction July 2010 to July 2011



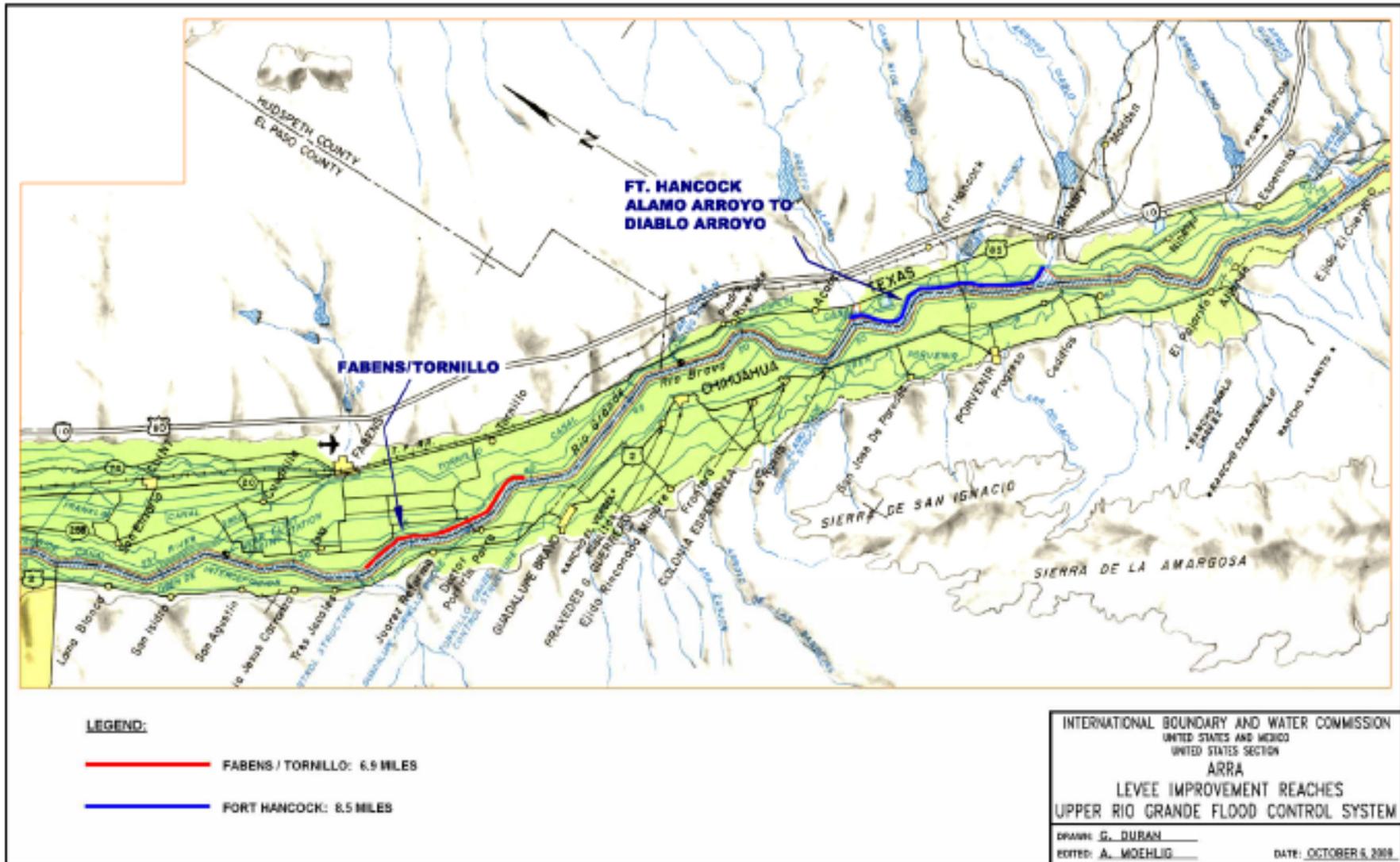
# Levee Status – El Paso County

## ■ El Paso Levee

- International Dam (Old Hacienda Café to downstream of Zaragoza Bridge)
- Work Completed by In-house forces
- USIBWC will present FEMA accreditation documents by early April 2010



# Levee Status – El Paso and Hudspeth Counties



# Levee Status – El Paso / Hudspeth Counties

- Fabens / Ft Hancock Levee
  - Currently being designed
  - Construction May 2010-June 2011



# LEVEE ENHANCMENT EQUIPMENT ON LEVEE



# LEVEE ENHANCEMENT EQUIPMENT



# In-House Levee Enhancement Mesilla Valley



# RECOVERY ACT LINKS

- <http://www.ibwc.gov/Recovery/Index.html>  
(overview of USIBWC Recovery Act, with additional links)
- [http://www.ibwc.state.gov/Files/URG\\_Schedule.pdf](http://www.ibwc.state.gov/Files/URG_Schedule.pdf) (weekly updates on Upper Rio Grande levee rehab, including schedules)
- [www.recovery.gov](http://www.recovery.gov) (federal government, all agencies)
- [www.state.gov/recovery](http://www.state.gov/recovery) (State Department)
- [www.FedBizOpps.Gov](http://www.FedBizOpps.Gov) (info for contractors)
- [www.oig.state.gov](http://www.oig.state.gov) (to report suspected fraud)



# INTERNATIONAL BOUNDARY AND WATER COMMISSION, UNITED STATES AND MEXICO



## Contact Information

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