

COCHISE COUNTY

Engineering & Natural Resources

Board of Supervisors
Work Session
February 6, 2024



Public Programs...Personal Service

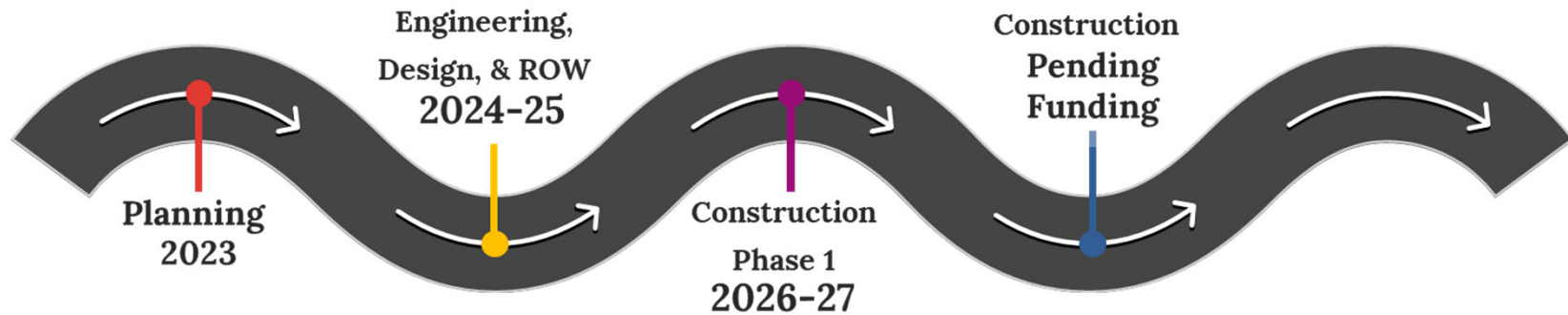
COCHISE COUNTY

Engineering Division Updates



Public Programs...Personal Service

Moson Road Design



- Turn lanes at major intersections; Drainage upgrades to convey the 10-year storm and erosion protection; Adding road shoulders to enhance safety for traveling public and pedestrians
- ADOT Administered
 - Advertised for Design (Closed 1/29)
- Design Start mid 2024; Complete 2025
- Phased Construction: Phases will be decided during design
- Additional Funds Required \$1 Million SVMPO for Design
- Additional Funds Required
- \$1 Million SVMPO for Design
- \$6.1 Million AZ Legislative Funds for Construction
- \$21.1 Million Estimated Construction Costs

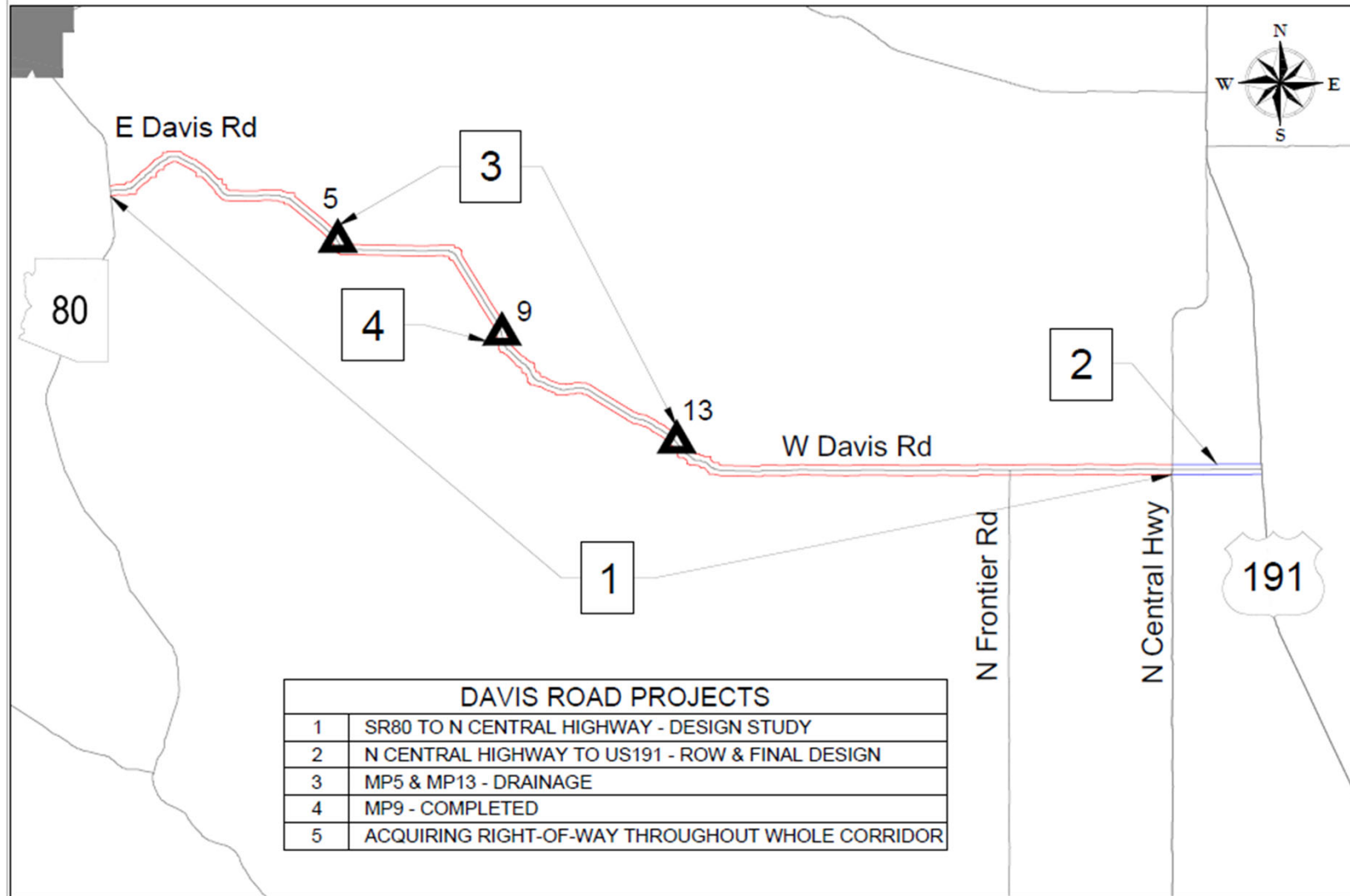


Davis Road

- Davis Road is a 24-mile Rural Major Collector, with a declared width of 200 feet, that connects State Route 80 (SR80) to US 191
- Road widening & alignment, along with the installation of improved drainage crossings, will help to increase safety through the corridor and prevent traffic delays due to flooding events
- Increased freight, heavy truck traffic is expected, due to the new commercial Port of Entry (POE) that is scheduled to open in 2028.



Davis Road Project Locations



Davis Road



• SR80 to N Central Highway

- Cochise County Awarded \$2,057,500 (RAISE Grant)
- Kickoff meeting with Federal Highway was October 30th, 2023
- Will fund the 30% engineering designs & NEPA Clearance for widening of Davis Road from SR80 to N Central Highway
- Cost for Construction:
 - Total Estimated Cost: \$73 Million



Davis Road

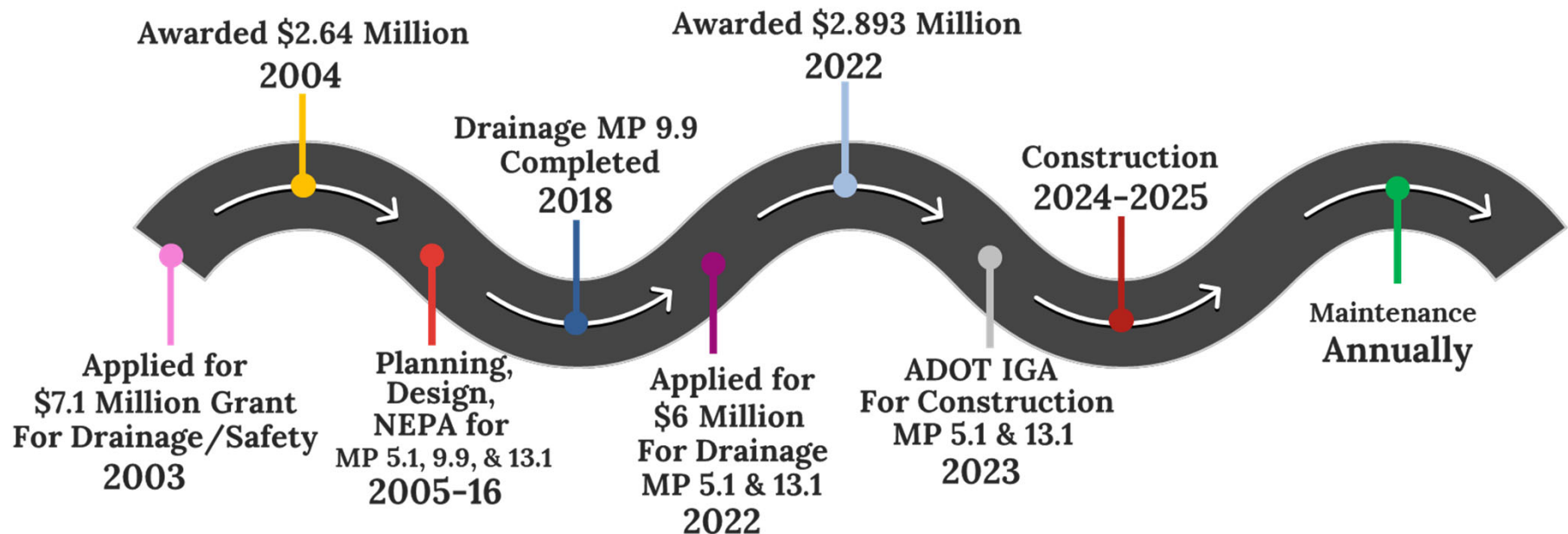


- **Central Hwy to US191**

- Acquiring Right-of-Way (37.24 acres)
- Overall, 11 properties, 3 Pending Acquisitions
- Cost for construction:
 - Total Estimated Cost: \$6.5 Million
- Completing 100% Design
 - Currently at 95% Design
 - \$80,000 for Design; Contract to Board in March
- Apply for Construction Grants



Davis Road



• Davis Road Drainage-Mileposts 5 & 13

- Awarded \$2,893,000 through Senator Kelly's Discretionary Funds
- County HURF Funds \$3,607,000
- Cost for Construction:
 - Total Estimated Cost: \$6,500,000
- ADOT Oversight of Construction

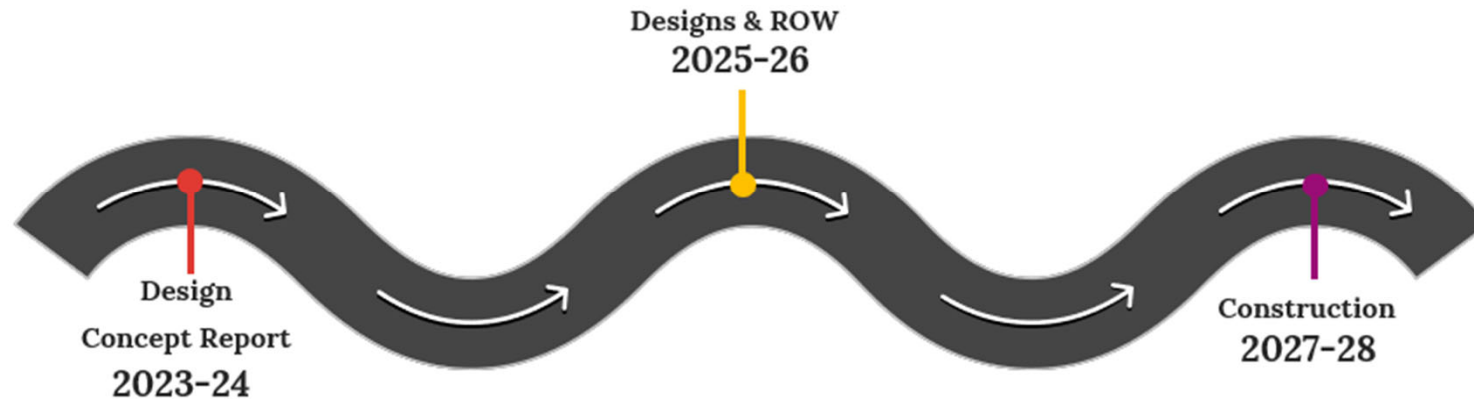


Davis Road Oversize Load



15' 7" wide, 17' 5" high and 130' long

Douglas- Land Port of Entry Connector Road



- Cochise County / Arizona Department of Transportation / City of Douglas
- Study Phase 3 Options
 - 1.5 to 2.3 miles
- Connector Road Design & Construction \$52- \$62 Million
 - Design ~ \$5 Million
- Watershed Study Request
 - Upstream drainage
 - Commercial Development

County Design Projects

- 61 Bridges
 - Replacement Plan
- N Frontage Road Sidewalk (Sunsites)
 - Approximately 1,350 linear feet in length
 - Deteriorating Concrete
 - Studying Options
- Leslie Canyon Culvert Replacements
 - MP 8.6 & 10.5
 - Currently a 10 Ton Weight Limit (MP 8.6)
 - Specifications and Cost Estimates to bid completed
- Foothills Parking Lot
 - Reconstruction to improve parking lot surface, drainage, and traffic flow
 - Specifications and Cost Estimates to be completed
 - Design in Final Review



COCHISE COUNTY

2023 Technical Services Reviews

- Survey
 - CORS Station
 - Legals for Douglas Annexation
- Signing
 - 3,164 signs made
- Traffic Counts
 - 102 Counters Set
 - 50 Roads Counted
- Right of Way
 - 428 ROW Permits
 - 53 Oversize/Overweight Permits
 - 16 Special Event Permits
- Flood District
 - 65 FPUP Permits
 - 155 Erosion Hazard Setback
 - 96 FEMA Flood Zone Inquires



Administrative Actions

- Neighborhood Traffic Management Procedure
- Road Design & Construction Standards & Specifications for Public Improvements
- Increase Permit Fees (Currently Analyzing)
 - FCD
 - Floodplain Permits
 - Commercial Reviews
 - ROW
 - Special events
 - Residential
 - Utilities
- Flood Control District: Full Time Employee



COCHISE COUNTY

Flood Control Division



Public Programs...Personal Service

COCHISE COUNTY

Revised FEMA Mapping

- Inform residents of FEMA flood hazard areas
- Final mapping (2026 per FEMA)
 - Bisbee
 - St David
 - Benson
 - Huachuca City
 - Sierra Vista
 - Hereford
- FEMA Funds
 - Revised Maps
 - Base Level Engineering



Watershed Studies (Area Specific)

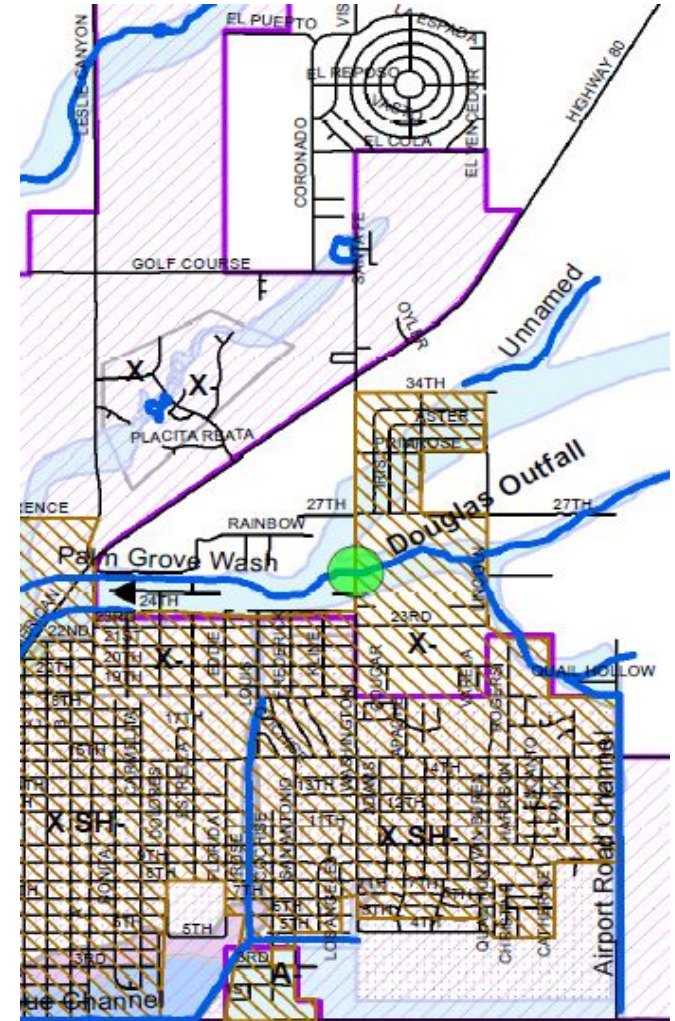
- Reduce Ponding along Pomerene Rd.
 - Spring 2025
 - \$250,000
- Willcox Basin
 - Pending Building Resilient Infrastructure Communities grant
 - \$250,000
- US Army Corps of Engineers
 - Rucker Canyon Watershed
 - PAS (Planning Assistance to States) Study
 - St. David Alluvial Fan Flooding, West of San Pedro



COCHISE COUNTY

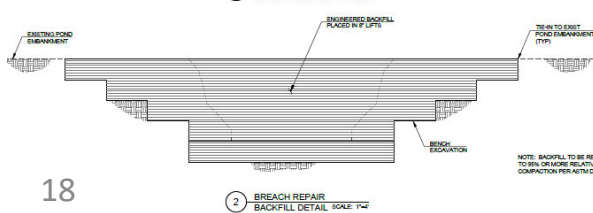
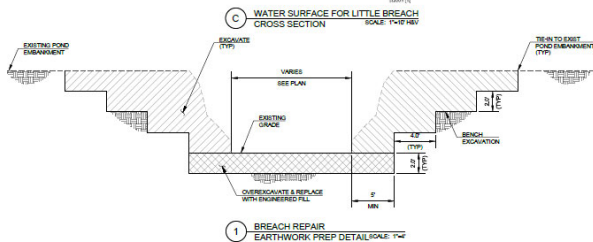
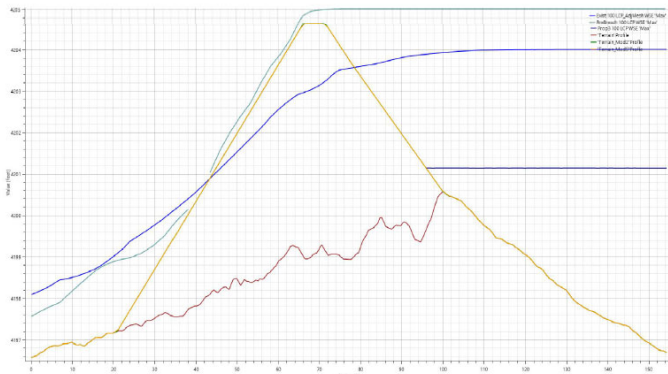
Municipal Separate Storm Sewer System

- Mandated by EPA to minimize debris from entering washes to the maximum extent practicable per Stormwater Ordinance
- ADEQ Cycle visits every 5 years to ensure permittees are maintaining Ordinance
 - Resident's mailings
 - Information to the public, etc.
- Annual Fee \$7,135.00 to ADEQ



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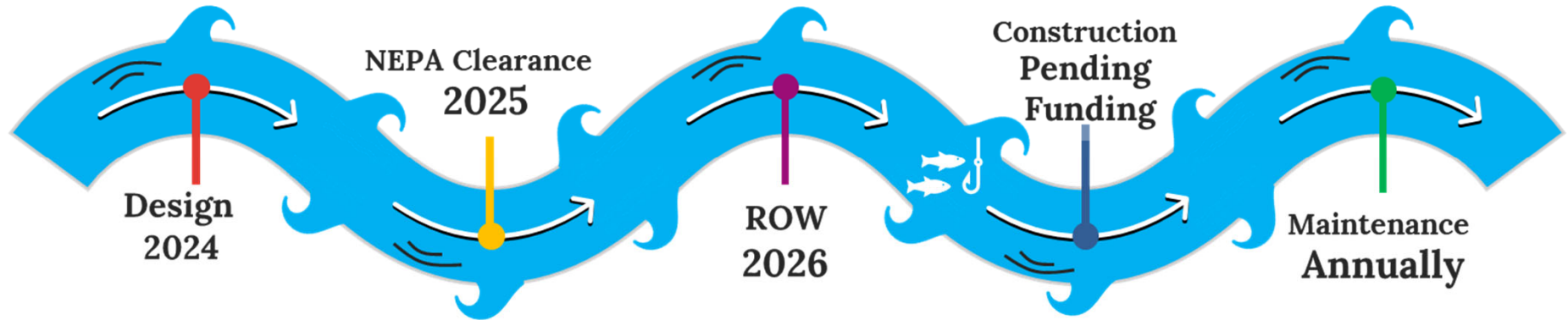
Leslie Canyon Pond



- Alleviate breached pond that flooded County roads and eroded parcels
- Direct flow back to original Flow Direction
- Remove pond from ADWR Jurisdictional Dam Status
- Design \$219,250
- Construction \$3.5 million (approx.)



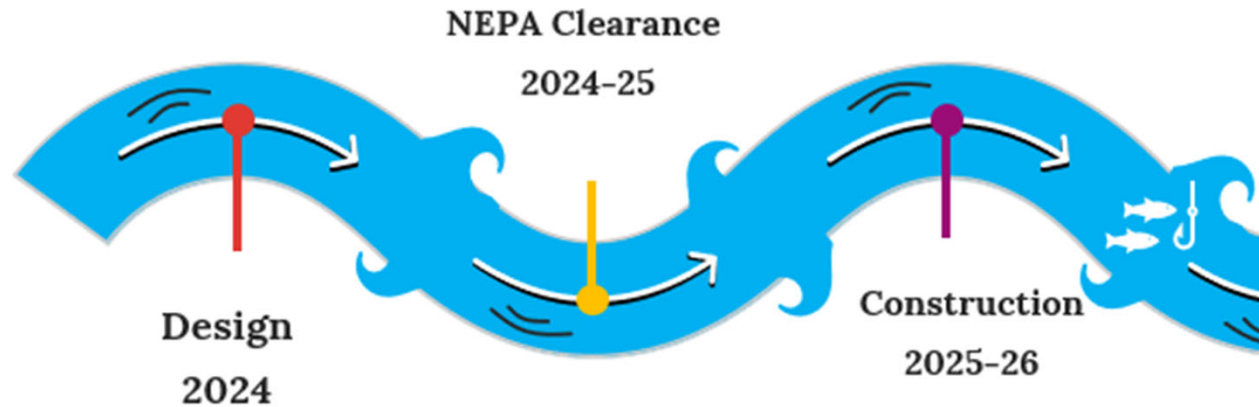
Bay Acres



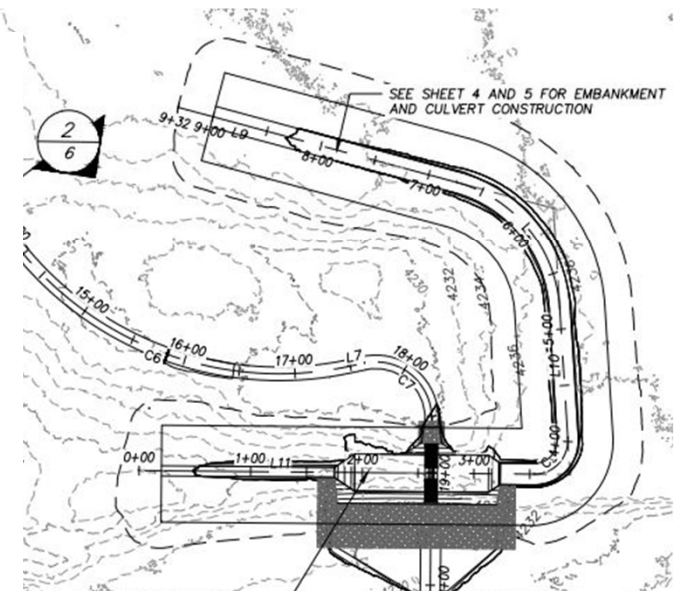
- Reduce flooding issues in the Bay Acres Colonia and along Washington Ave.
- Design \$261,791
- ROW \$1 million
- Construction \$8 million



COYOTE WASH



- Stormwater Management Project
 - Off-line detention design to reduce flood hydrograph peak flows
 - Prolong duration of flow (hydrograph attenuation)
- Design \$330,000
 - Received REPI Construction Grant \$1,500,000
 - Applying for Grants



COCHISE COUNTY

Upper San Pedro Projects

- Coordinate and collaborate in the identification, prioritization and implementation of comprehensive policies and projects that assist in meeting the water needs of the Sierra Vista sub watershed.
- Riverstone
 - Phase II Site Investigation (ongoing)
 - REPI Grant \$900,000
 - City of Sierra Vista
 - Final Design & Permitting
- Horseshoe Draw
 - Armor around outlet pipes (Completed)
 - Inlet Repairs (Completed)
 - Design outlet fix Summer 2024
- Bisbee Effluent
 - Design Concept Report \$345,000
 - To be completed Fall 2024
 - Meeting with Border Patrol and BLM



Riverstone Testing

Questions ?

