

COCHISE COUNTY

Engineering & Natural Resources Engineering Update FY22

Board of Supervisors
Work Session
December 13, 2022



Public Programs...Personal Service





Long-Range Transportation Planning

The primary coordinated regional study effort of the MPO is projecting needs for transportation infrastructure into the future –

and then seeking partnerships to fund, design, and construct those regional priority projects.





SVMPO 2050 Long-Range Transportation Plan

Adopted on August 25, 2021

- Incorporated County travel demand modeling and project priorities
- Must have a 20-year horizon timeframe and be updated every five years.
- Developed regional priorities and scoring for regional project selection [Roadway, Preservation, Alternative Modes]



COCHISE COUNTY



SVMPO top-ranked regional transportation priorities

1. Theater Drive: Carmichael Ave to 7th Street
2. Moson Road: Hereford Rd. to SR 90
3. Skyline Drive: SR 90 to Landfill

The SVMPO provided for study funding for both Theater Dr. and Moson Rd. The SVMPO TIP provided Design funding for Moson Rd. in FY23.



Theater Drive Inventory and Roadway Assessment

Cochise County Board of Supervisors Work Session
December 13, 2022



Theater Drive Inventory and Roadway Assessment



Theater Drive Study Purpose Joint Agency Forum: May 2022



- Gained consensus on corridor vision
- Determined feasibility of potential infrastructure improvements:
 - Revised alignments
 - Alternate mode needs
 - Right-of-way needs
 - Utilities
 - Stormwater/drainage
- Established project implementation priorities, phasing, and timelines



Theater Drive Inventory and Roadway Assessment



Vision, Goals & Objectives



Theater Drive Inventory and Roadway Assessment



Information Gathered for Conceptual Plan



Land Use/
Zoning



Bicycle &
Pedestrian



Transit



Drainage



Lighting



Utilities



Traffic Counts



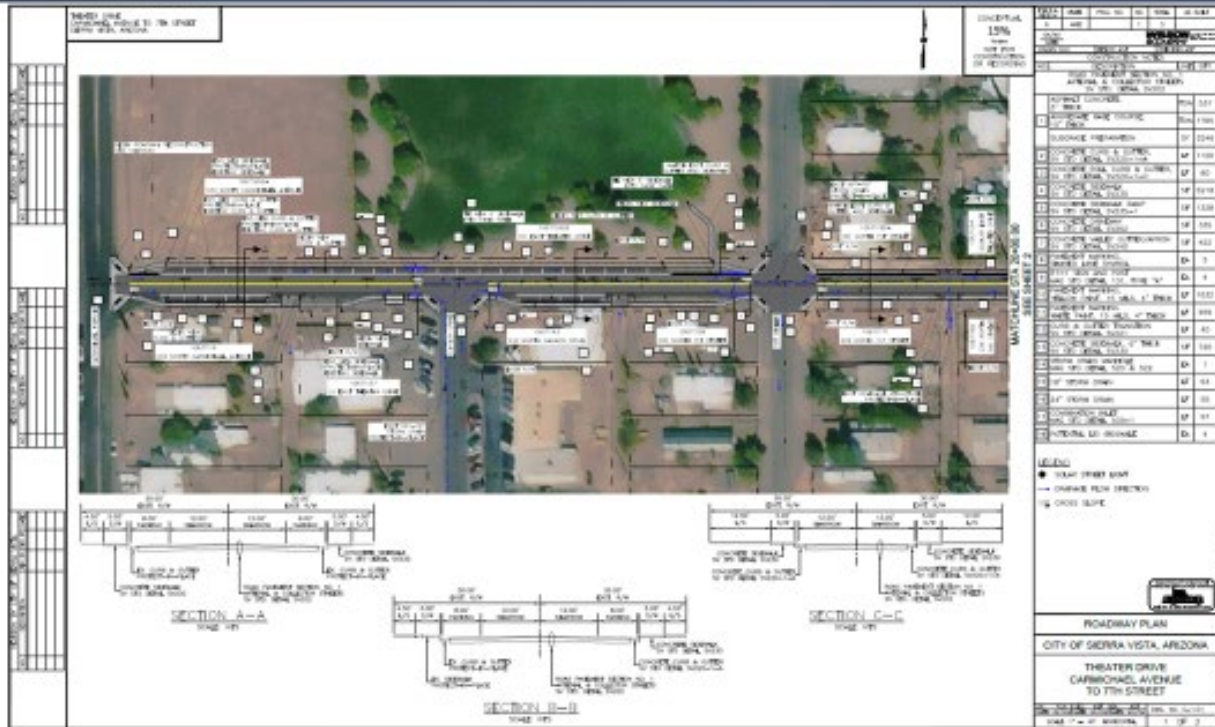
Stakeholder
Feedback



Theater Drive Inventory and Roadway Assessment



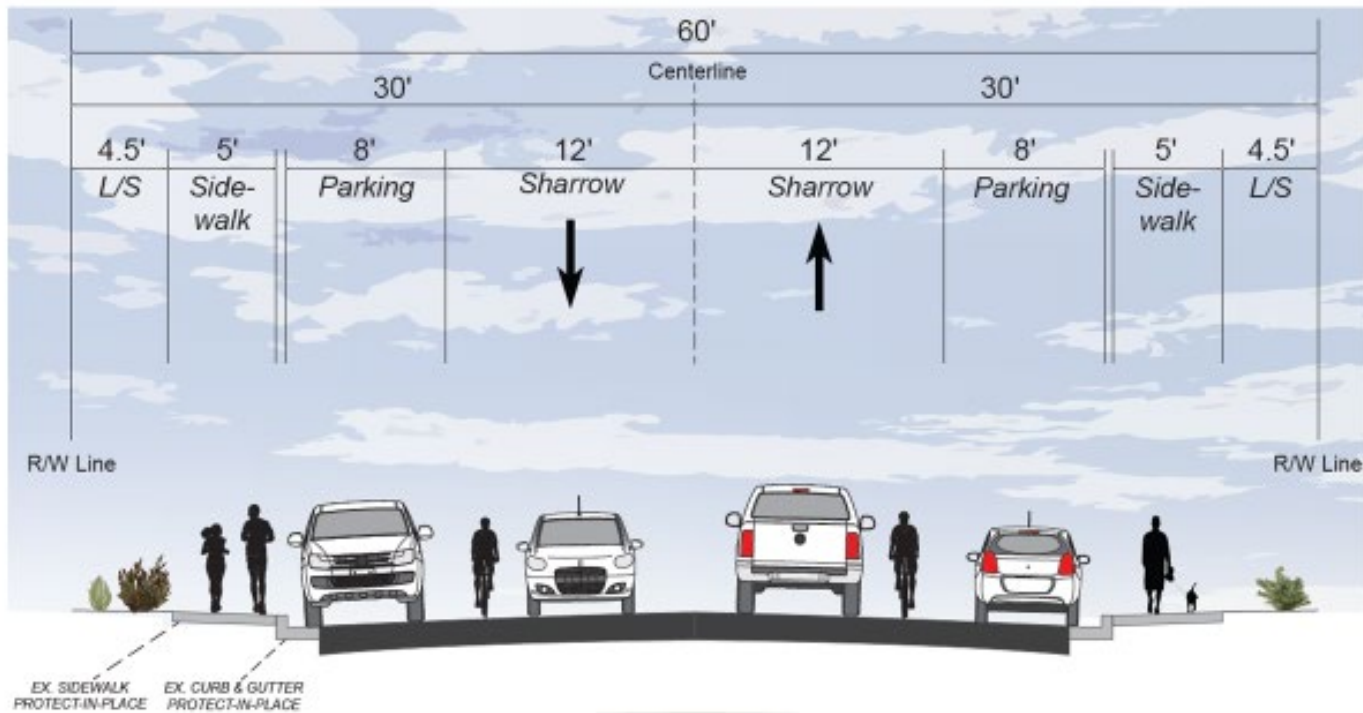
Corridor Concept – Under Development



Theater Drive Inventory and Roadway Assessment



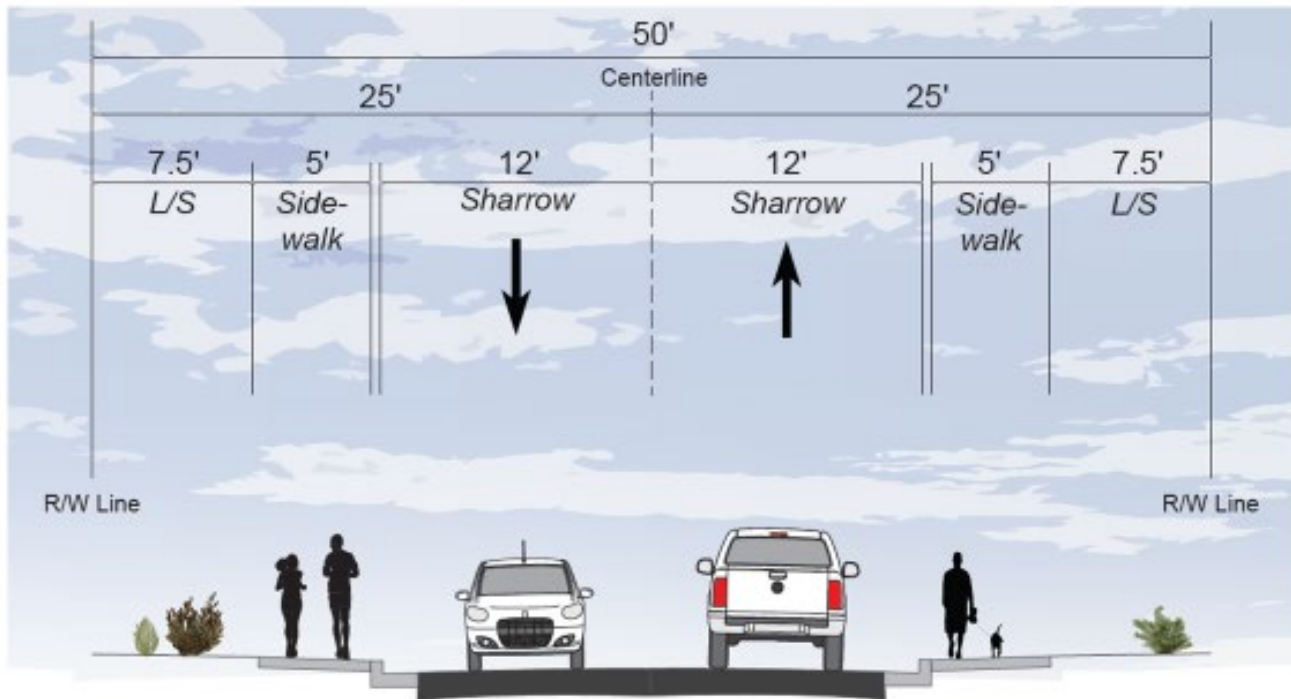
Corridor Concept – 60' Right of Way



Theater Drive Inventory and Roadway Assessment



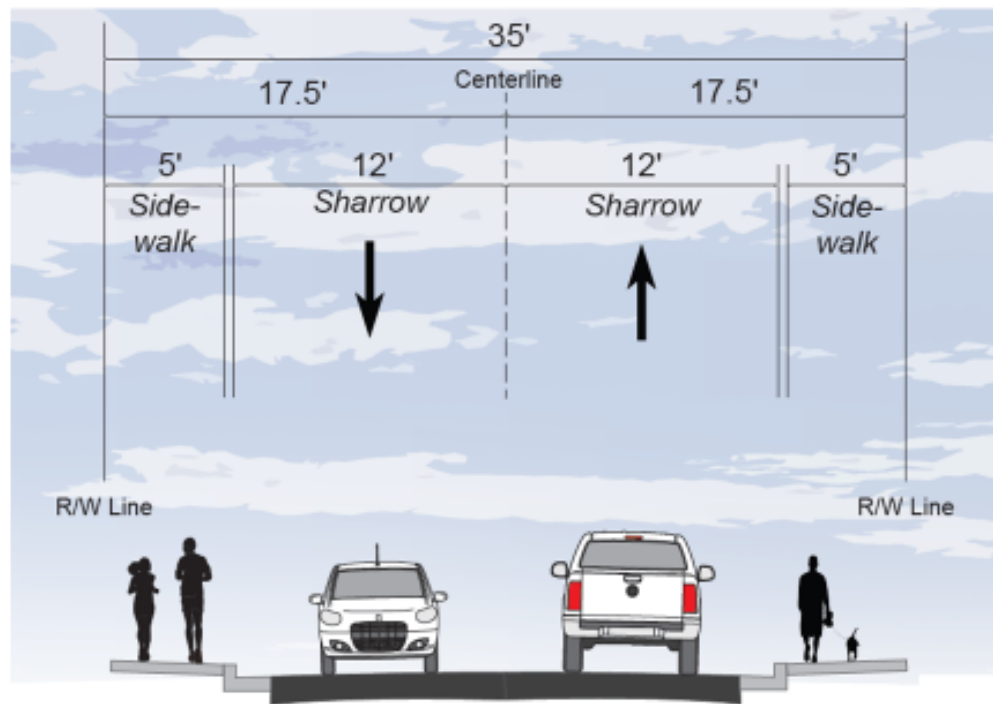
Corridor Concept – 50' Right of Way



Theater Drive Inventory and Roadway Assessment



Corridor Concept – 35' Right of Way

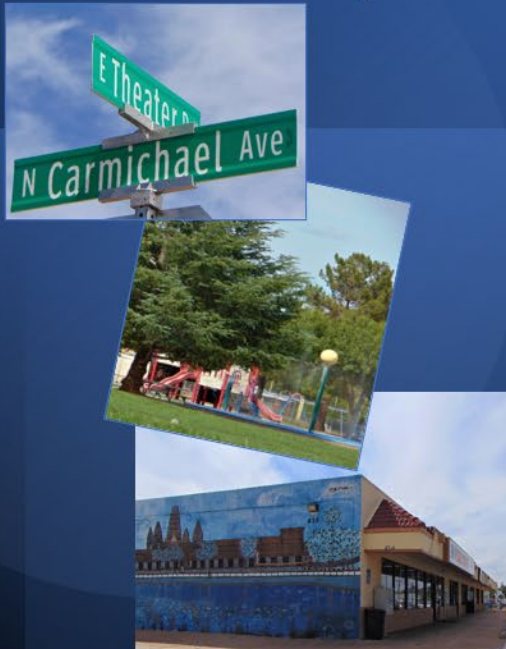


Theater Drive Inventory and Roadway Assessment





Next Steps



Upcoming Activities:

- Finalizing Working Papers
- Finalizing Conceptual Design Plans
- Developing Preliminary Cost Estimates
- Continuing Public Outreach
- Coordinating County/City Partnerships
- Seeking Design & Construction Funding



MOSON ROAD PRE-SCOPING STUDY

COCHISE COUNTY BOARD OF SUPERVISORS WORK SESSION

December 13, 2022

Michael Baker
INTERNATIONAL



PROJECT GOALS & OBJECTIVES

- Prepare a pre-scoping feasibility study to identify critical infrastructure needs between Hereford Road and State Highway 90.
- Evaluate existing drainage, sight distance, intersection connections, multi-modal and safety concerns.
- Considering current and future traffic volumes; assess turning movements and key destination traffic impacts.
- Develop a roadway cross-section, along with stormwater management and improved access along the corridor, for existing and future conditions.
- Prepare planning-level construction cost estimate using ADOT guidelines and unit prices.



NEXT STEPS: ENGINEERING & COUNTY BOARD ACTIONS

1. Complete Right-of-Way acquisition.
2. Request ADOT to initiation FY23 Design Phase Project for Moson Rd.
3. SVMPO and County Board of Supervisors IGA to authorize the \$1 million dollar award of regional STBG funds for Design.
4. ADOT, County & SVMPO to contract for a Design Consultant Team.
5. Seek construction funding grant.



Citizen Requests, Commercial Reviews, & Inspections

- Right-of-Way Section

- Calls: Average of 25 Per Month
- Commercial Reviews (Special Use, Commercial Use, Rezoning, Right-Of-Way): Average of 12 per month
- Inspections
 - Northern County Inspector (Includes Willcox, Bowie, San Simon, J-6, Mescal, Elfrida, etc.): Average of 41 Open Permits per month
 - Southern County Inspector (Includes Sierra Vista, Huachuca City, Douglas, Hereford, Palominas, etc.): Average of 62 Open Permits per month



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2022 Permits

- ROW Permits: 625
- Special Event Permits: 17
 - (Bicycle Events, Run/Walk Events, & Parades)
- Oversize and Overweight Permits: 66



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Signing

- Updating Posts to Square Tubing:
 - Charleston Road Square Tubing
 - Installation of 386 Anchors and Posts
 - To be installed in high wind areas (San Simon, Bowie, Portal, Willcox, etc.)
- Updating Materials:
 - Approximately 400 signs and 335 sign posts are installed within one month
 - Approximately 100 blue stake (utility location) requested in a one month period
- Night Time Inspections (Winter):
 - Checking for retroreflectivity of existing signs and pavement markings



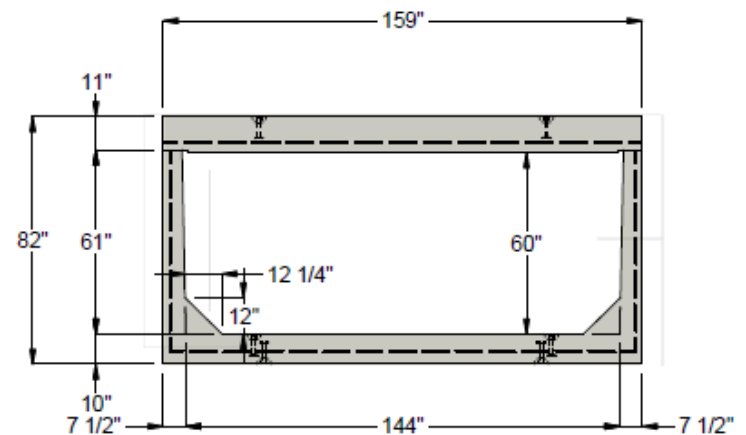
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Damaged Signing Due to Wind



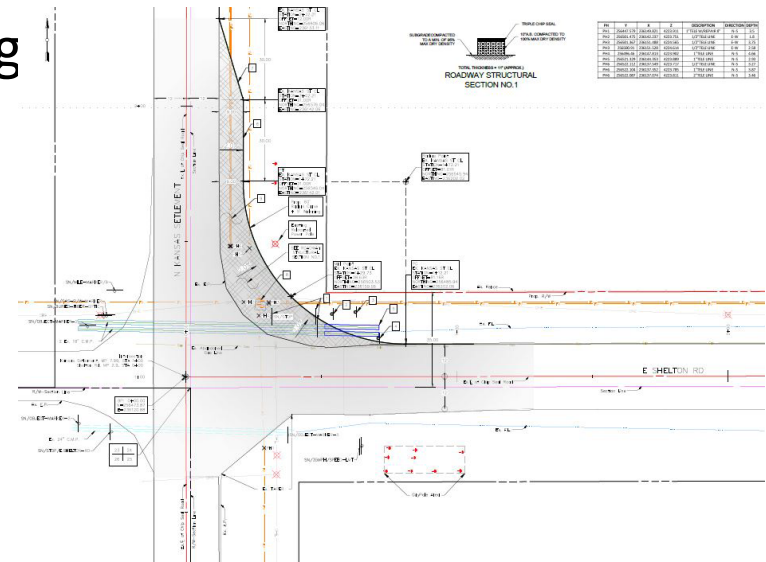
Structures

- Bridges
 - 60 Bridges
 - 20 year replacement plan
 - Consultant Design
- Pre-Cast Box Culvert
 - Leslie Canyon MP 8.6
 - Design Complete (In-House)
 - Leslie Canyon MP 10
 - Design Complete (In-House)
 - Geronimo Trail MP 8
 - Design Complete (In-House)
 - Culvert Purchased (\$35,000)
 - Construction to be bid out for all three culvert installations



Roadway Improvements

- Shelton Road Intersection Widening
 - In-House Design (Complete)
 - Construction by Public Works (Complete)



Roadway Pavement Evaluations

- Geotechnical Testing of Existing Asphalt (Completed)
- Visual evaluation, sampling, and testing of road surface and base
 - Naco Highway (4.4 Miles)
 - Kansas Settlement (20 Miles)
 - Fort Grant Road (14 Miles)
 - Davis Road (22.4 Miles)
 - Arzberger Road (5.4 Miles)
 - Washington Ave (1 Mile)
 - Shelton Road (5 Miles)
 - Moson Road (7.8 Miles)

Total Cost: \$45,000



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Roadway Design & Right-of-way Acquisition

- Davis Road
 - Central Road to US 191
 - ROW to acquire 10 Parcels
 - Design 95% Complete, Consultant to Finalize Design
 - Construction \$2 million
 - Culverts mile post 5 and 13
 - Congressionally Directed Spending (CDS Grant) Senator Mark Kelly.
 - Construction Cost \$6 million, Grant is \$3 million
 - SR80 to Central 22 miles
 - New Douglas Port of Entry, Freight corridor
 - Project Assessment completed 2016
 - Acquire ROW, \$1 million
 - Design \$2.5 million
 - Construct 1st Phase, \$1 million/mile



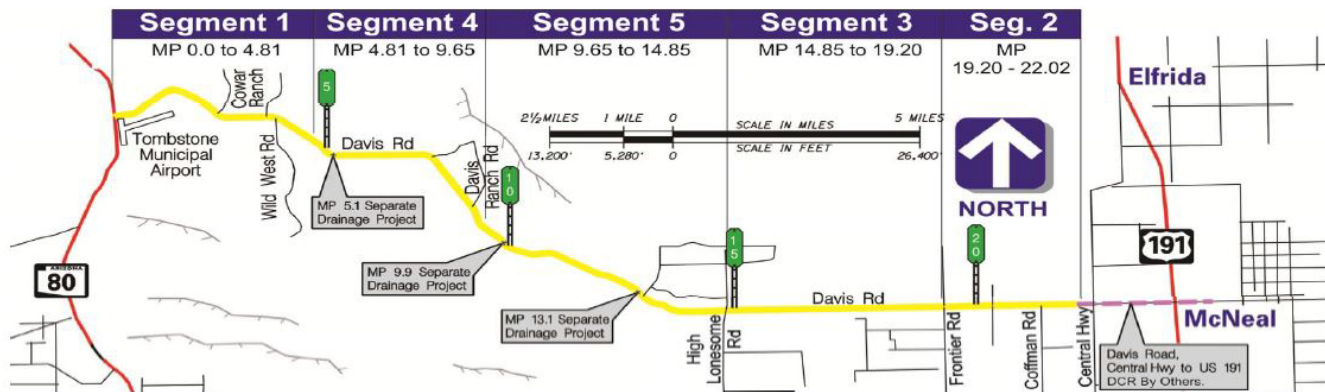
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Sure we can make that turn!



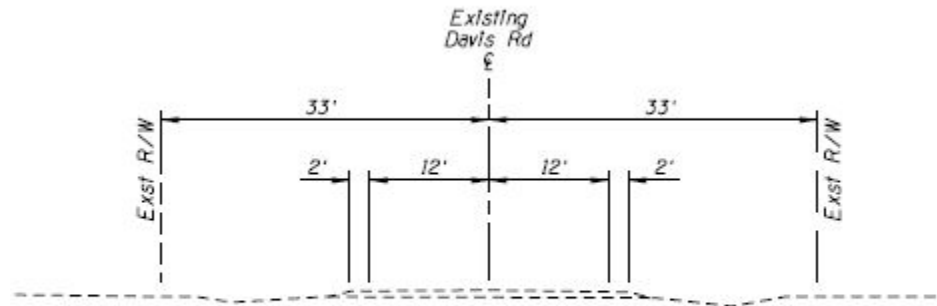
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Davis Road: State Route 80 to Central Highway

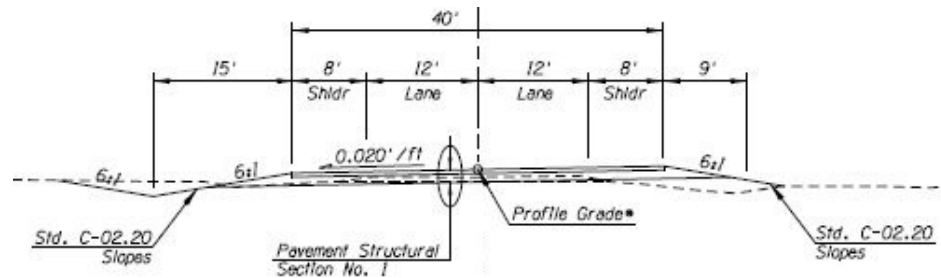


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Davis Road: State Route 80 to Central Highway



EXISTING CONDITION TYPICAL SECTION



Proposed Typical Section



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