STATE ROAD 29 FROM 1-75 TO OIL WELL ROAD PROJECT DEVELOPMENT & ENVIRONMENT (PD&E) STUDY

ENVIRONMENTAL ADVISORY GROUP MEETING #2 October 1, 2020 FM NO.: 434490-1-22-01



Meeting Agenda

- Introduction
- FDOT Presentation
 - Review Preliminary Analysis
 - Project Status and Next Steps
- Focused Discussion \bigstar
- Open Discussion
- Closing



Environmental Advisory Group (EAG)

- EAG Goals
 - To share information and ideas that help achieve the project purpose and need with the least overall harm
 - To assist in the identification of environmental issues to be addressed within the scope of this PD&E Study
- EAG Member Role
 - Provide feedback and comments regarding the PD&E study information presented
 - Assist in the identification of potential project impacts, opportunities and constraints
 - Identify or clarify environmental, community, social, and/or transportation issues that are relevant to the study area
 - Act as a point of contact from and to your organizations sharing and providing information
 - Be aware of and cooperative regarding the project goals and timeframes



EAG Previous Coordination

- EAG Meeting #1:
 - May 9, 2019
 - EAG Discussion included:
 - Existing hydrology concerns
 - Southwest Florida Comprehensive Watershed Plan and other regional goals
 - Canal Ownership belongs to adjacent landowners
 - Continue close coordination to find opportunities to implement into project
- August 16, 2019 Letter
 - Project Concerns
 - Agency Recommendations



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NATIONAL PARK SERVICE Big Cypress National Preserve 33100 Tamiami Trail East Ochopee, Florida 34141-9710 US FISH & Wildlife Service Florida Panther National Wildlife Refuge 12085 State Road 29 S Immokalee, FL 34142



Purpose & Need

PANTHER CROSSING NEXT 5 MI

- Improve Safety
- Provide System Linkage
- Increase Capacity
- Meet Future Transportation Demand



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Recommendation:

Broader project purpose and need

Existing SR 29

- Two lane, undivided rural principal arterial
- Design Speed: 65 mph
- Project Length: 10.2 miles
- Strategic Intermodal System (SIS) Facility
- USFWS FPNWR leases western 100' of right-of-way (R/W)
- No existing sidewalk or trail features



Preliminary Typical Section Analysis

Two Lane Enhanced – Barrier separated with inside shoulders	Does not meet Purpose and Need as it does not increase capacity or meet future demand
Two Lanes with Passing Lanes	Does not meet Purpose and Need as it does not increase capacity or meet future demand
Four Lane Divided	Meets Purpose and Need



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Recommendation:

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Consider full and robust range of alternatives

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5' 12' 12'

12' 12' 5'

R/W Varies 168' To 180'

Preliminary Typical Section Analysis

Four Lane Typical Section Features

- Accommodated within existing R/W
- Four 12-foot lanes
- 5-foot paved outside shoulders
- 40-foot median

Concept Development 🔶

Widening Alternative

 Existing lanes remain in current location as NB lanes 21.5' 5' 12'

R/W Varies 168' To 180

- New SB lanes constructed within R/W
- Two Options for Widening
 - Maintain existing road in current location
 - Shift existing road 7' east
- Drainage accommodated by offsite ponds
- No sidewalk or trail features

Concept Development 🔶

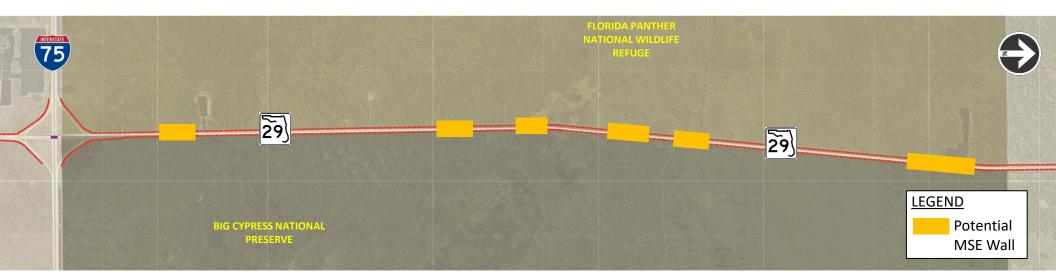
Reconstruction Alternative

- Reconstruct entire road to center improvements within R/W
- Drainage accommodated by offsite ponds or linear treatment within R/W
- No sidewalk or trail features



12 5

Constrained Areas



- Transmission easement (west)
- Canal (east)
- Areas with large elevation differences (see map)
- Avoid/Minimize Impacts by:
 - Holding existing R/W lines
 - MSE Wall where necessary
 - Shoulder gutter (no roadside swale) where necessary

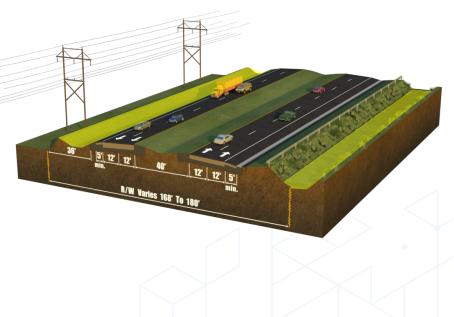


- Single bridge from Bear Island Rd to Pistol Pond
- Single bridge at Henson Marsh

Preliminary Drainage Concepts 🔶

Approach #1: Offsite Ponds with Canal Conveyance

- Direct discharge into canal
 - Requires canal modifications
- Canal flow directed into offsite drainage ponds
- Additional R/W needed for offsite ponds
- Requires significant stakeholder coordination
 - Canal owned by adjacent landowners
- Can be used with both widening and reconstruction alternatives





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- Improvements to canal
- New culverts at key locations / comprehensive hydraulic study

Preliminary Drainage Concepts +

Approach #2: Offsite Ponds with Swale Conveyance

- Linear swale conveys stormwater to offsite ponds for treatment and attenuation
- Additional R/W needed for offsite ponds
- Canal not used for conveyance, treatment, or attenuation
- Can be used with both widening and reconstruction alternatives





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Preliminary Drainage Concepts +

Approach #3: Linear Swales

- Roadside linear swales provide treatment and attenuation within R/W
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Preliminary Environmental Evaluation

- Natural Environment
 - Outstanding Florida Waters (OFW)
 - Federal Species
 - Panther (primary zone)
 - Caracara
 - Snail Kite
 - Bonneted bat
 - Wood Stork
 - Wildlife Crossings ★



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- Shelving under bridges
- Additional crossings at multiple locations (coordinated with local conservation plans, etc)

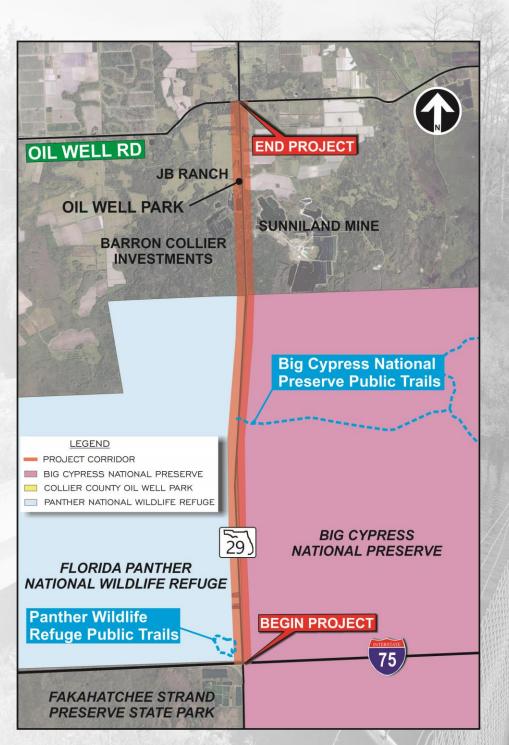


Preliminary Environmental Evaluation

- Socio-Cultural
 - Consistent Tribal Coordination
 - Cultural Resources
 - Potential Section 4(f)
- Physical Environment
 - Noise
 - Contamination



 Enhance existing and proposed public lands access (list and map provided in letter)





Project Status

- Future funding discussions on-going with FDOT and Collier MPO
- Adjusting project schedule to accommodate funding and MPO planning document consistency
- EAG members will be notified by email of project next steps when information becomes available





PUBLIC INVOLVEMENT

Focused Discussion



Constrained Areas



★ Wildlife Crossings

Rules of Engagement:

- *Remain muted until your agency is called*
- State your name clearly for the record
- Comments should be centered around the discussion topic at hand



Concept Development 🛨

Widening Alternative

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5 12

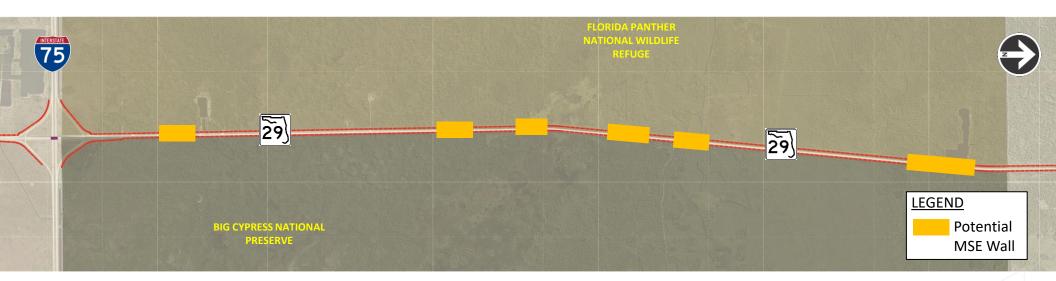
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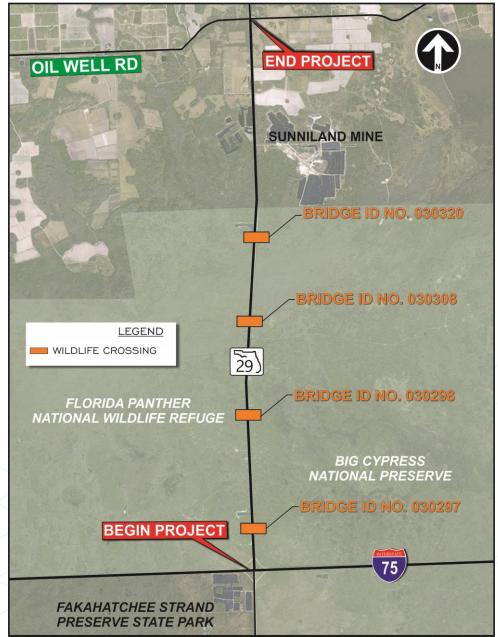


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Open Discussion





Thank You!

For more information please contact:

Jennifer Marshall, P.E. District Environmental Administrator FDOT District 1 (863) 519-2239 Email: Jennifer.Marshall@dot.state.fl.us

You can also visit our study website: http://swflroads.com/sr29/pde/

