# SR 4016, SECTION D10 (PLEASANT VIEW SMOCK ROAD)

BRIDGE REPLACEMENT OVER REDSTONE CREEK FRANKLIN AND MENALLEN TOWNSHIPS, FAYETTE COUNTY MPMS NO. 76017





### PROJECT TEAM

- PennDOT Engineering District 12-0
  - Brian Svesnik Project Manager
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- SAI Consulting Engineers, Inc.
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- Sucevic, Piccolomini & Kuchar Engineering, Inc.
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# PROJECT SUMMARY

#### Project Description:

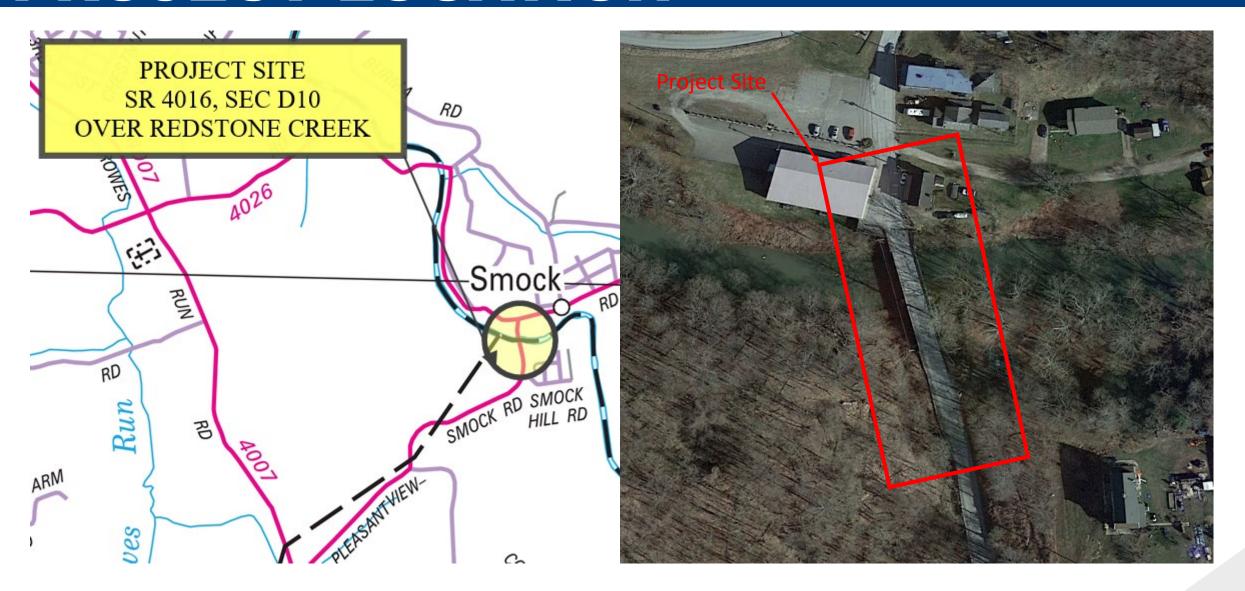
- SR 4016 (Pleasant View Smock Road) Bridge over Redstone Creek is located on the border of Franklin and Menallen Townships, Fayette County. The project consists of the complete replacement of the existing two span concrete encased steel I-beam bridge and pier with a two span prestressed concrete PA Bulb-Tee beam bridge and pier. Approach roadway work will consist of approximately 250' of roadway reconstruction to the south and approximately 50' of full depth reconstruction with an additional 150' of overlay to the north. The project also includes the realignment of an unnamed tributary to Redstone Creek that parallels SR 4016. The proposed roadway alignment and profile will be slightly altered to accommodate the proposed typical section of 10' lanes and 4' shoulders. Traffic will be maintained via detour. The project is currently entering Final Design. Construction of the project is anticipated in 2028, but is subject to change.

#### Project Purpose and Need:

- The purpose of this project is to provide a reliable crossing of SR 4016 over Redstone Creek which meets current design criteria and structural capacity needs while maintaining community and regional connectivity. The existing structure was built in 1927. The structure is in poor condition due to the concrete on all beams having map, longitudinal, and vertical cracks with moderate efflorescence, and areas of scaling and spalling exposing the bottom and top flanges with moderate rust on the exposed steel. The wing walls have severe scaling and spalling with diagonal, vertical, and map cracking. The pier has heavy to severe delamination, scaling, spalling, vertical and diagonal map cracks.



# PROJECT LOCATION





# PROJECT PHOTOS

#### **Existing Structure**









# PROJECT PHOTOS

#### **Existing Roadway**







# PROJECT PHOTOS



**Existing Roadway** 







### PROJECT IMPROVEMENTS

#### Bridge Replacement Project

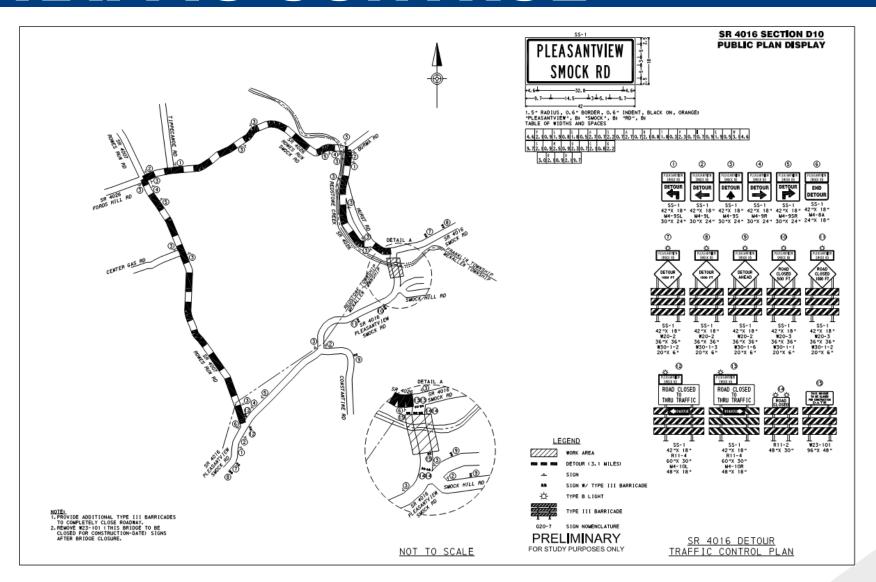
- Scope of Work includes:
  - Reconstruct Roadway approaches including a wider lanes and shoulders
  - Replace inlets and drainage pipes
  - Relocate Unnamed Tributary to Redstone Creek
  - Remove existing deck, beams, abutments, and pier

- Construct proposed abutments
- Construct proposed pier
- Construct proposed concrete beams and deck.
- Construct proposed barriers
- Perform overlay within paving limits



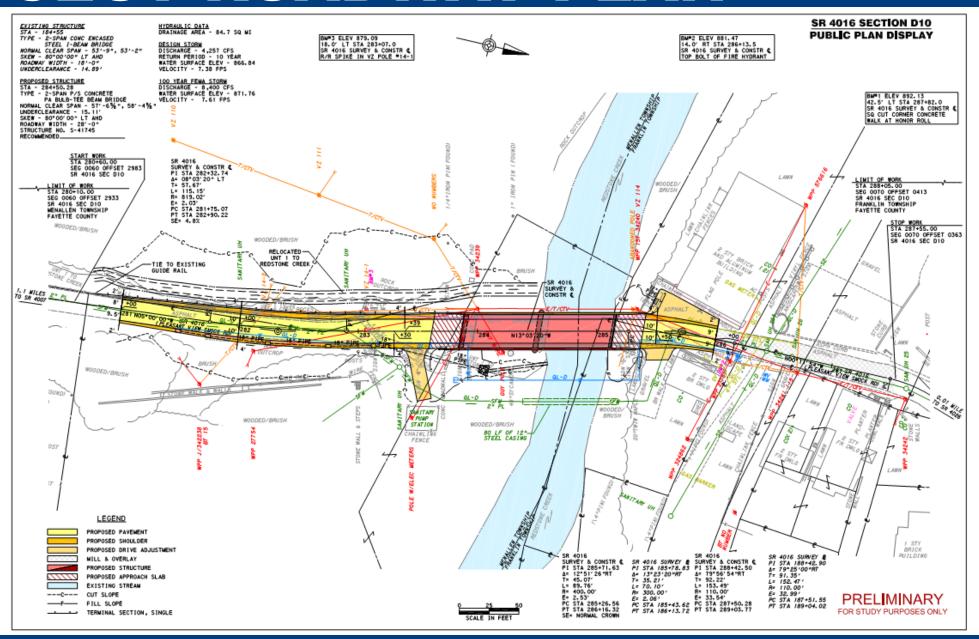
# PROJECT TRAFFIC CONTROL

- Proposed Detour Route:
- SR 4026 (Hurst Rd) to SR 4026 (Rowes Run Smock Rd) to SR 4007 Rowes Run Rd)
- Length = 3.1 Miles



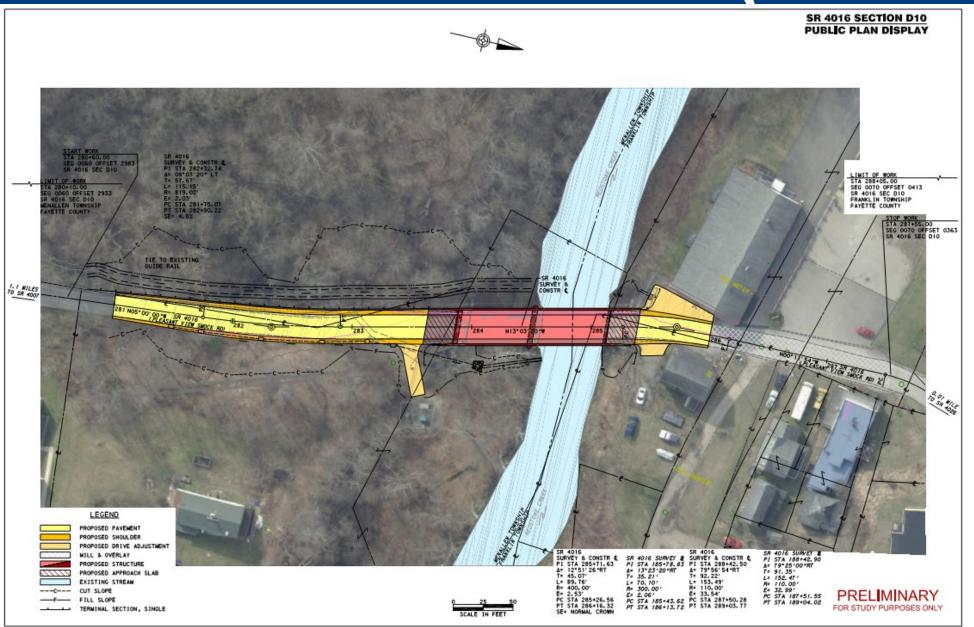


# PROJECT ROADWAY PLAN





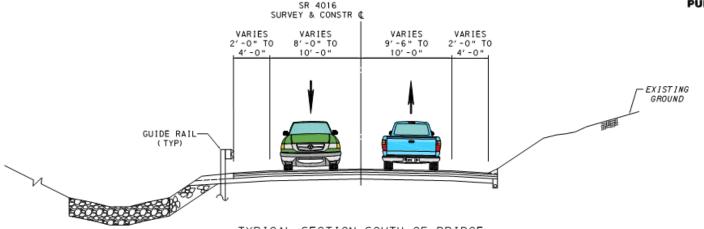
# PROJECT ROADWAY PLAN (AERIAL)





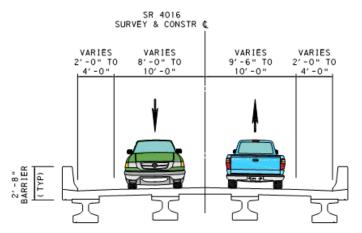
# PROJECT ROADWAY TYPICAL

SR 4016 SECTION D10
PUBLIC PLAN DISPLAY

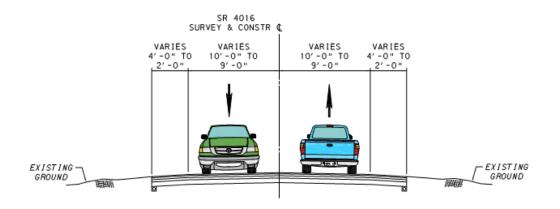


TYPICAL SECTION SOUTH OF BRIDGE

SR 4016 STA 281+00.00 TO STA 283+61.70 NOT TO SCALE



TYPICAL BRIDGE SECTION
SR 4016
STA 283+61.70 TO STA 285+38.80
NOT TO SCALE



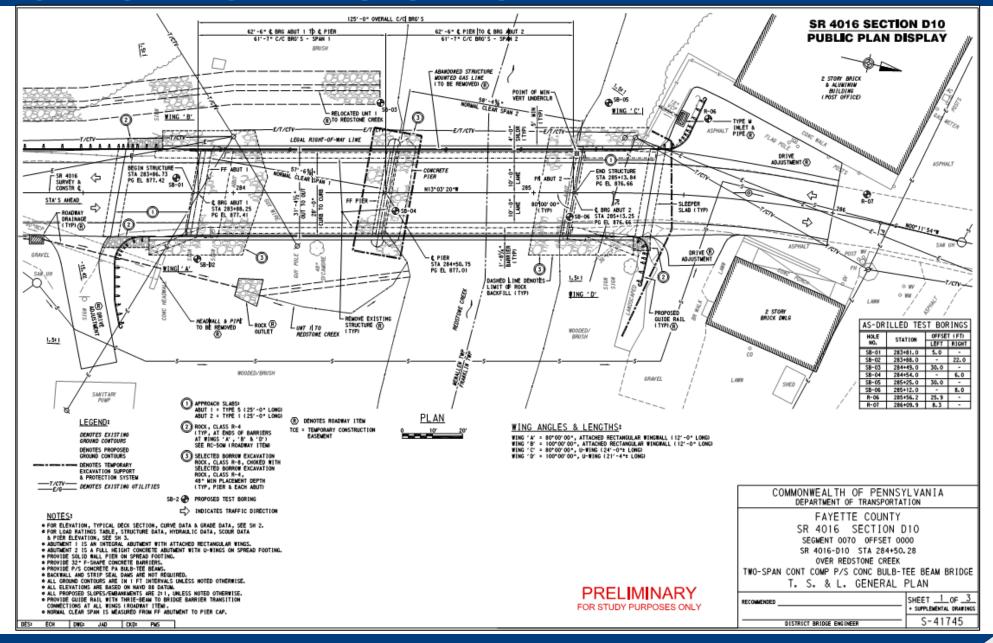
TYPICAL SECTION NORTH OF BRIDGE

SR 4016 STA 285+38.80 TO STA 286+00.00 NOT TO SCALE



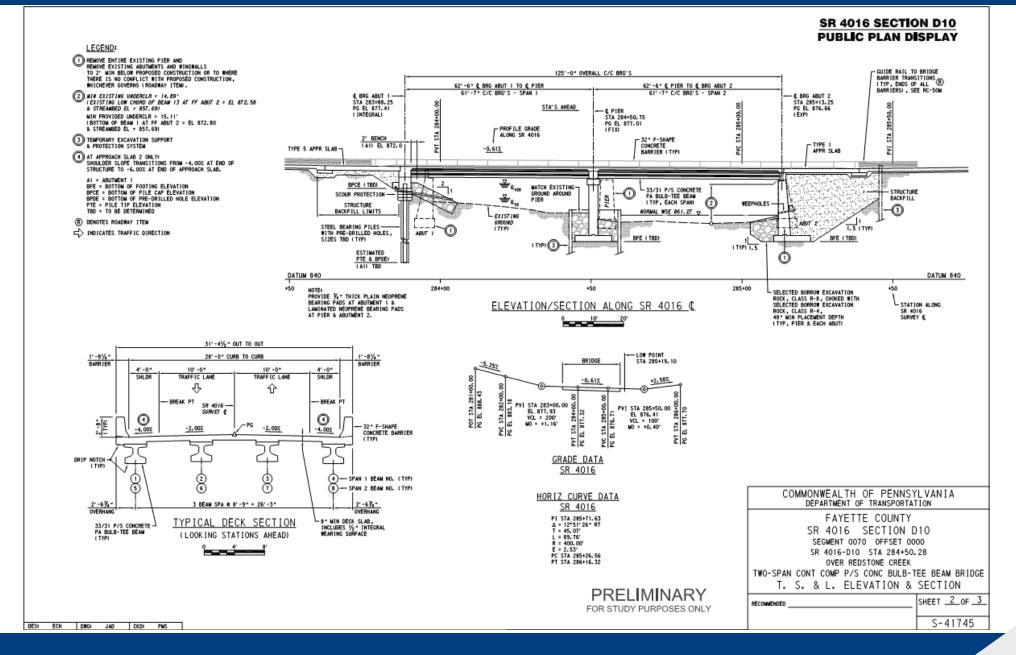


### PROJECT STRUCTURE





# PROJECT STRUCTURE



### PROPOSED PROJECT SCHEDULE

- Complete Preliminary Engineering: Spring 2025
- Begin Final Design: Spring 2025
- Begin Right-of-Way Acquisition: Spring 2026
- Open Bids: Summer 2027
- Road Closure and Construction: June/August 2028

(Dates Subject to Change)





### PROJECT CONSULTATION

- Interested in becoming a Consulting Party for this Project?
  - A consulting party is a group or individual who has a demonstrated interest in the project, due to their legal or economic relationship to the undertaking or affected property. For example, consulting parties can be:
    - The local government
    - Property owners in the project area
    - Historical societies or preservation groups
- Please utilize the QR Code to fill out an application.





# Questions?



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