Design Exception Request

FAY-435/VAR-1.52/VAR

PID: 117955; Request 01 Letting Type: ODOT-Let

Design Designation FAY-435; 2.2-2.4					
Design Year ADT (2044)	27,300	Design Speed	60		
Design Hourly Volume (2044)	3,270	Legal Speed	55		
Directional Distribution	67%	Design Functional Class	5 - Major Collector Roads		
Trucks (24hr B&C)	17%	Functional Class Area Type	Rural		
		NHS Project	No		



Submitted By:	
Jeff Hipp (Engineer of Record)	
Approved by:	Engineer of Record Seal

Timothy Keller Approval Date: 12/22/2022

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Controlling Criteria Identification Section: FAY-435; 2.2-2.4						
Lane Width						
Shoulder Width						
Horizontal Curve Radius						
Maximum Grade						
SSD (Horizontal & Crest Vertical)						
Pavement Cross Slope						
Superelevation Rate						
Vertical Clearance						
	Inventory > 1.00 for HL-93 Design Loading	Existing Inventory 1.099	Existing bridge will have new overlay shifting the crown to center of the bridge to accomodate 4 lanes of traffic. New overlay thickness was modeled in BrR and updated BR100 is attached. New inventory rating for HL-93 is 0.969 and operating 2.309. All legal and permit vehicles Operating Factors exceed 1.00.			
(a.) "Existing" may be N/A (i.e. New alignment or new ramp)						

Project Description	
	0
Section Description See Project Description	
See Project Description	

Proposed Mitigation	
None	
Support for Deviation (Benefit-cost. R/W. Environmental, Constructability, Coordination with Other Projects, Relationship between any crash	_

Support for Deviation (Benefit-cost, R/W, Environmental, Constructability, Coordination with Other Projects, Relationship between any crash patterns and proposed design exception, etc.):

The district explored the option of maintaining the existing crown across the bridge; however, Green Book 4.2.2.1 states that trucks with high centers of gravity crossing over the crown line may sway from side to side when traveling high speed making it more difficult to maintain control. Additionally, L&D 301.1.5 states that undivided pavement sections are to be crowned at the middle when the number of lanes is even. Due to the relatively simple nature and cost to adjust the crown on the superstructure of a semi integral bridge, we feel this shift in crown is appropriate.

boes the requested besign exception location fall within a safety integrated Project (SIP) Map Location?			
No			

Does the crash analysis (GCAT and CAM Tool) show any patterns that would be adversely impacted by the proposed Design Exception? #N/A