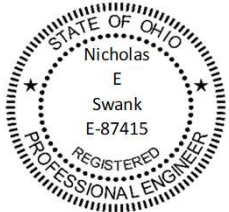




BRIDGE LOAD RATING SUMMARY REPORT

OFFICE OF STRUCTURAL ENGINEERING

OHIO DEPARTMENT OF TRANSPORTATION

SFN (SNBI Bridge Number)	Ohio Bridge Number (Bridge Asset Name)		District	GPS Coordinates								
				LATITUDE:	LONGITUDE:							
0726249	BEL-1-01.021		11	40.047817	-81.011956							
Original Year Built	Year Re-built	Total length	Structure Type XXX	Feature Intersected								
1965		23 ft	101	EAST FORK BARKCAMP CREEK								
SPECIAL ASSUMPTIONS & COMMENTS	Original Plans and Structural SCD AR-1-57 (03/01/1958) used in load rating. Date Built: 1965 Structure Type: Simple Concrete Slab Span Length: 21'-6" Assumptions: Bottom longitudinal reinforcement side clearance @ 4", bottom cover @ 1" and size/spacing No. 8's @ 5.5". Top longitudinal reinforcement side clearance @ 4", top cover @ 2" and size/spacing No.5's @ 34". No significant deterioration. Field measured slab thickness of 12.75". Assumed concrete strength of 4 ksi and reinforcing strength of 40 ksi.											
	Minimum Legal Rating = 1.205, Live Load = SU6 and SU7, Member = Slab @ Span 1 (50%) (10.75ft along the member) : Limit State = Flexure											
Please type or select on right using drop down arrow												
Load Rating Purpose:	8 - Update Analysis Model and Software			<i>Sealed by:</i> Nicholas Swank  <i>Nicholas Swank</i>								
Bridge Appraisal Rating (0-9):	6											
Load rating Software:	3 - AASHTO BrR											
Software version:	7.4.1.3001											
Routine Permit Load (RPL):	N - Agency does not issue routine permits											
Rating Source:	1 - Plan information available for load rating analysis											
Load Rating Method:	LFR - Load Factor Rating (RF) - Code 6											
Design Loading:	C - Other (includes railroad bridges w/track removed)											
STRUCTURE RATING SUMMARY												
OHIO & AASHTO LEGAL VEHICLES					DESIGN AND OPERATING RATINGS							
Legal Load	GVW (Tons)	No of Axles	Rating Factor RF	Safe Weight (Tons)	Loading Type	Rating by RF						
						Inventory	Operating					
2F1	15	2	2.109	15.00	HS20 Loading	0.830	1.386					
3F1	23	3	1.555	23.00	Recommendation	No Load Posting is Recommended						
5C1	40	5	1.602	40.00								
Type 3	25	3	1.602	25.00								
Type 3-3	40	6	1.946	40.00								
Type 3S2	36	5	1.757	36.00								
SPECIALIZED HAULING VEHICLES (SHV)												
SU4/4F1	27	4	1.356	27.00								
SU5	31	5	1.276	31.00								
SU6	34.75	6	1.205	34.75								
SU7	38.75	7	1.205	38.75								
EMERGENCY VEHICLES (EV) Check box if rating for EV3 ☐					Permit Load (PL) Analysis **							
EV2	28.75	2	1.324	28.75	Loading Type	GVW (Tons)	No of Axles	Rating Factor	Calculated Load (Tons)			
					PL 60T	60	6	1.051	63.06			
					PL 65T	65	7	0.983	63.90			
Controlling Legal Load RF					121%		1.21		PL Analysis Method		Load Factor Rating (LFR)	
AGENCY/FIRM/OFFICE		Arcadis										
	Name	PE Number	Phone Number		Email		Report Date:	2024-05-31				
Rated By	Kayla Saggio			614-985-9172	kayla.saggio@arcadis.com							
Reviewed By	Nicholas Swank		87415	330-515-5729	nick.swank@arcadis.com							

** ODOT bridges to be analyzed for permit trucks by policy.

BR-100 (01/2024)

Analysis for permit trucks is optional for non-ODOT bridges and at owner's discretion.