



BRIDGE LOAD RATING SUMMARY REPORT

OFFICE OF STRUCTURAL ENGINEERING

OHIO DEPARTMENT OF TRANSPORTATION

SFN	Bridge Number	DISTRICT	GPS COORDINATES						
7604831	STA-00093-04340	4	LATITUDE: 40.700122	LONGITUDE: -81.598386					
ORIGINAL YEAR BUILT 1955	YEAR REBUILT N/A	TOTAL BRIDGE LENGTH 153 ft	FEATURE INTERSECTED (Below) SUGAR CREEK						
SPECIAL ASSUMPTIONS & COMMENTS	<p>Rated by BS, reviewed by BCM, PE 81632, November 2022, from original plans and standards, January 1955, and rehab plans, 2007, for two span (75'-0", 75'-0" c-c of bearings) non-composite steel bridge consisting of steel 33WF220 beams. The 6.75" deck is 36'-2" O/O and T/T of TST-1-99 railing. The bridge is not on a skew and is on a tangent alignment. A 3" asphalt wearing surface was installed during the 2008 rehabilitation.</p> <p>The controlling location is on the exterior beam 60' from the pier in Span 2 and controlled by flexural stress.</p>								
PLEASE SELECT ON RIGHT, WHERE APPROPRIATE, BY USING THE DROP DOWN ARROW BUTTON									
LOAD RATING PURPOSE:	8 - Update Analysis Model and Software								
GENERAL APPRAISAL (0-9):	6								
LOAD RATING SOFTWARE:	3 - AASHTO BrR								
SOFTWARE VERSION:	7.2.0.3001								
ROUTINE PERMIT LOAD (RPL):	A - No routine Permit loads are restricted								
RATING SOURCE:	1 - Plan information available for load rating analysis								
LOAD RATING METHOD:	LFR - Load Factor Rating (RF) - Code 6								
DESIGN LOADING:	2 - H15								
STRUCTURE RATING SUMMARY									
OHIO & AASHTO LEGAL VEHICLES					Design Inventory and Operating Ratings				
Legal Load	GVW (Tons)	No of Axles	Rating Factor RF	Safe Weight (Tons)	Loading Type	Rating by RF			
2F1	15	2	2.989	15.00	HS20 Loading	Inventory	Operating		
3F1	23	3	2.019	23.00		0.873	1.459		
5C1	40	5	1.868	40.00	Recommendation Sign Posting Recommendation:	No Load Posting is Recommended			
Type 3	25	3	1.983	25.00					
Type 3-3	40	6	1.945	40.00					
Type 3S2	36	5	1.798	36.00					
SPECIALIZED HAULING VEHICLES (SHV)									
SU4	27	4	1.765	27.00					
SU5	31	5	1.593	31.00					
SU6	34.75	6	1.438	34.75					
SU7	38.75	7	1.327	38.75					
EMERGENCY VEHICLES (EV) <i>Check box if rating for EV3</i> <input checked="" type="checkbox"/>					Routine Permit Load (RPL) Analysis				
EV2	28.75	2	1.710	28.75	Loading Type	GVW (Tons)	No of Axles	Rating Factor	Safe Load (Tons)
EV3	43	3	1.339	43.00	RPL 60T	60	6	1.335	80.10
					RPL 65T	65	7	1.080	70.20
Controlling Legal Load RF			135%	1.35	RPL Analysis Method		Load Factor Rating (LFR)		
AGENCY/FIRM/OFFICE		Michael Baker International							
Name	PE Number	Phone Number		Email		Report Date:	2022-11-29		
Rated By	Baikuntha Silwal	N/A	757-631-5297		baikuntha.silwal@mbakerintl.com				
Reviewed By	Brett Mattas	81632	614-538-7606		brett.mattas@mbakerintl.com				