



# 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	YEAR REBUILT	TOTAL BRIDGE LENGTH	FEATURE INTERSECTED (Below)	
1955	N/A	153 ft	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			
<b>STRUCTURE RATING SUMMARY</b>				
<b>OHIO &amp; AASHTO LEGAL VEHICLES</b>				
Legal Load	GVW (Tons)	No of Axles	Rating Factor RF	Safe Weight (Tons)
2F1	15	2	2.989	15.00
3F1	23	3	2.019	23.00
5C1	40	5	1.868	40.00
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
<b>SPECIALIZED HAULING VEHICLES (SHV)</b>				
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
<b>EMERGENCY VEHICLES (EV)</b>				
Check box if rating for EV3 <input checked="" type="checkbox"/>				
EV2	28.75	2	1.710	28.75
EV3	43	3	1.339	43.00
<b>Design Inventory and Operating Ratings</b>				
Loading Type	Rating by RF			
	Inventory	Operating		
HS20 Loading	0.873	1.459		
Recommendation	No Load Posting is Recommended			
Sign Posting Recommendation:				
<b>Routine Permit Load (RPL) Analysis</b>				
Loading Type	GVW (Tons)	No of Axles	Rating Factor	Safe Load (Tons)
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