



BRIDGE LOAD RATING SUMMARY REPORT

OFFICE OF STRUCTURAL ENGINEERING

OHIO DEPARTMENT OF TRANSPORTATION

SFN	BRIDGE NUMBER	DISTRICT	GPS COORDINATES	
			LATITUDE:	LONGITUDE:
7706456	SUM-00076-13.650	4	41.0612	-81.4653
ORIGINAL CONSTRUCTION YEAR	REHABILITATION YEAR	OVERALL STRUCTURE LENGTH	FEATURE INTERSECTED	
1958	1997	975 ft	Lt Cuy Riv, ABC RR, Mas R	

SPECIAL ASSUMPTIONS & COMMENTS

11-span (E.B.L. 80'-0", 90'-0", 2 @ 72'-0", 76'-0", 90'-0", 92'-0", 2 @ 116'-0", 96'-0", 72'-0" & W.B.L. 80'-0", 90'-0", 72'-0", 86'-0", 4 @ 90'-0", 116'-0", 96'-0", 72'-0" & W.B.L. 80'-0", 90'-0", 72'-0", 86'-0", 4 @ 90'-0", 116'-0", 96'-0", 72'-0") continuous composite bridge with a varying skew and 11 sets of 11 steel beams/plate girders with varying shapes with a reinforced concrete substructure (with piers #4, #5, and #6 as called out in plans having steel girder caps). The deck is made of reinforced concrete and has a width of 63'-0" o/o and 60'-2" f/f in the E.B.L. and a varying width of 63'-0" to 84'-5" o/o and 60'-2" to 81'-7" f/f in the W.B.L. with a thickness of 8.5". The parapet is installed according to standard drawing BR-1. The alignment is curve right, tangent, and curve left. The bridge was built in 1958 and rehabilitated in 1997.

Assumptions: Modeled as tangent since curve is less than 4°. Overhang widths taken as an approximate average since it varies throughout.

Applied EV2 rLL / Scale Factor = 1.0 and EV3 rLL / Scale Factor = 0.9231 (LFR Factors).

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) :	7
(708) LOAD RATING SOFTWARE :	3 - AASHTO BrR (VIRTIS)
SOFTWARE VERSION :	6.8.4.3002
(709) RATING SOURCE :	1 - Plan information available for load rating analysis
(63)(65) RATING METHOD :	6 - Load Factor (LF) rating reported by rating factor (RF)
(31) ORIGINAL DESIGN LOADING :	6 - HS20-44 & Alternate Military Loading

STRUCTURE RATING SUMMARY

OHIO LEGAL VEHICLES				DESIGN VEHICLE		
Loading Type	GVW (Tons)	Operating Rating RF	Legal Weight (Tons)	Loading Type	Rating by RF	
					Operating	Inventory
2F1	15	3.416	15.00	HS20 Loading	1.526	0.914
3F1	23	2.272	23.00			
4F1	27	1.978	27.00			
5C1	40	1.704	40.00			
					Overall Legal Posting Rating	135%
				Posting Recommendation	No Load Posting is Recommended	
SPECIALIZED HAULING VEHICLES (SHV)						
SU4	27	1.964	27.00	Sign Posting Recommendation:		
SU5	31	1.740	31.00			
SU6	34.75	1.600	34.75			
SU7	38.75	1.480	38.75			
EV2	28.75	1.842	28.75			
EV3	43	1.342	43.00			

AGENCY/FIRM/OFFICE	2LMN, Inc	Report Date	8/14/2021
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