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FORM RC-CL
Revised July 2024

MnDOT BRIDGE RATING AND LOAD POSTING REPORT FOR COUNTY AND LOCAL AGENCIES

eForm V. 2.1

Bridge Location and Description

Over ☐ Under ☐ **Bridge No.** _____

Hwy. No. _____

Year Built _____ Year Remodeled _____ Replaces Br. _____

Bridge Type Select County Select Ref. Pt. _____

Description _____

Location _____

Data for Basis of Report (Check all that apply)

- ☐ Bridge Inventory File
- ☐ Previous Bridge Rating and Load Posting Report
- ☐ Bridge Plans
  - ☐ New ☐ Overlay
  - ☐ Repair/Reconstruction
  - ☐ Other Dead Load Modifications
- ☐ Bridge Inspected by _____ Date
  - ☐ Damaged Component _____
  - ☐ Deteriorated Component _____

Types of Analysis:

☐ Manual ☐ AASHTOWare BrR, V._____ ☐ Computer* ☐ Other*

* _____

NBI Condition Ratings

Deck Select
Superstructure Select
Substructure Select
Culvert Select

HCADT _____

Method of Rating (Check appropriate box)

- ☐ Load Factor (LFR)
- ☐ Allowable Stress (ASR)
- ☐ Load & Resistance Factor (LRFR)
- ☐ Assigned LFR
- ☐ Assigned LRFR
- ☐ Load Testing

Design Load Select

Design Method Select

Summary of Rating and Load Posting Analysis

Load Posting ☐ Required ☐ Not Required

Sign	TONS		
R12-1a ☐			
R12-5M (old R12-5a) ☐			
R12-5 ☐	M3	M3S2-40	M3S3-40
R12-X11 ☐		45	
R11-2a ☐	**BRIDGE CLOSED**		

Bridge Rating

Inventory	Operating
HS ☐ RF ☐ _____	HS ☐ RF ☐ _____

Overweight Permit Codes

A Select B Select C Select

I hereby certify that this report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

(Typed or Printed) Name: _____ Date: _____

(Typed or Printed) Employed by (☐Agency/☐Firm): _____

Signature: _____ License No. _____

My signature below indicates that I have read and fully agreed with the load rating report.

Program Administrator's Signature: _____ Date: _____

FOR MNDOT STATE AID BRIDGE OFFICE USE ONLY
State Aid Bridge Load Rating Engineer: ☐

Unless otherwise noted, the State Aid Load Rating Engineer's review of this load rating form does not include an independent validation of the information and values entered. The signing PE must assure Section 9 on Quality Control and Quality Assurance of the MnDOT Bridge Load Rating and Evaluation Manual was followed.

FORM RD-CL
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BRIDGE RATING DETAILS

eForms V. 2.1

Bridge Type Select

Rating Method Select

Roadway Width

☐ Curved ☐ Tapered

Beam Spacing

☐ Live Load Distribution Factor

Single Multiple

☐ Finite/Grid Element Analysis

Bridge No.

Design Load:

Inventory Rating:

Operating Rating:

Rated Checked

Date

Sheet 2 of

BEAM ELEVATION [1]

Show span lengths, structure/beam depths.

Truck	Rating Factor	Span/ Pier	Location	Limit State [2]	Notes/Comments
Inventory					
Operating					
M3					
M3S2-40					
M3S3-40					
SU4					
SU5					
SU6					
SU7					
EV2					
EV3					

Implements of Husbandry [3]	Rating Factor	Span/ Pier	Location	Limit State [2]	Notes/Comments
Tier 1a					
Tier 1b					
Tier 1c					

1 Elevation may be on another sheet 2 Choose from: service or ultimate; shear or moment 3 For information only

+ New Sheet *- Delete Sheet*

FORM RD-CL Revised July 2024	BRIDGE RATING DETAILS	eForms V. 2.1

Annual/Routine Permit	No Restriction Rating Factor	Straddle Two Lanes Rating Factor	5% Impact Rating Factor	Notes/Comments
STD. A				
STD. B				
STD. C				
6-axle, 90k-99k				
7-axle, 97k-99k				

Special/Single Permit	No Restriction Rating Factor	Straddle Two Lanes Rating Factor	5% Impact Rating Factor	Notes/Comments
P411		**		
P413		**		
C152b		**		
C174b		**		
C214b		**		
C237b		**		
C256b		**		
C200j		**		

OVERWEIGHT PERMIT RESTRICTIONS FOR LOCAL BRIDGES

Restriction Code	Restriction Description	Special/ Single Permit	Annual/ Routine Permit	Detailed Restriction Description	Bridge Check Operation
1	None	YES	YES	No Restriction to cross bridge	Normal
2	Straddle Two Lanes	YES	YES	Drive on the centerline between two lanes, in a manner that prevents any other vehicle from occupying a part of either lane on either side of the permit vehicle. Drive in the center of a single lane bridge.	The AASHTO "Single Lane" live load distribution is used. *This operation applies to all permit vehicles when performing LFR method or only to annual permit vehicles when performing LRFR method.*
3	Maximum speed of 10 mph	YES ①	YES ①	Drive at a speed of 10 mph or less	The impact factor is reduced from the AASHTO impact to 5%
X	DENIED	YES	YES	The overweight permit vehicle is **NOT ALLOWED** on this bridge	Used when requirements for restriction 1 thru 3 are not met

① Not allowed where there is a posted minimum speed. ** "N/A", Does not apply when performing LRFR method, ref. AASHTO MBE Table 6A.4.5.4.2a-1

SNBI SECTION 5: LOADS, LOAD RATING, AND POSTING

5.1 LOADS AND LOAD RATING

Item ID	Data Item	Value	Item ID	Data Item	Value
B.LR.01	Design Load	Select	B.LR.05	Inventory Load Rating Factor	
B.LR.02	Design Method	Select	B.LR.06	Operating Load Rating Factor	
B.LR.03	Design Rating Date		B.LR.07	Controlling Legal Load Rating Factor	
B.LR.04	Design Rating Method	Select	B.LR.08	Routine Permit Loads	

5.2 LOAD POSTING STATUS

Item ID	Data Item	Value	
B.PS.01	Load Posting Status		**Section 5 is for MnDOT Bridge Inventory Management Unit use only**

5.3 - LOAD EVALUATION AND POSTING

Item ID	Data Item	Value (1)	Value (2)	Value (3)	Value (4)	Value (5)	Value (6)	Value (7)	Value (8)	Value (9)
B.EP.01	Legal Load Configuration	S-M3	S-M3S2	S-M3S3	SU4	SU5	SU6	SU7	EV2	EV3
B.EP.02	Legal Load Rating Factor									
B.EP.03	Posting Type	T (Gross)	T (Gross)	T (Gross)	T (Gross)	T (Gross)	T (Gross)	T (Gross)	T (Gross)	T (Gross)
B.EP.04	Posting Value									