



Janet T. Mills
GOVERNOR

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

Dale F. Doughty
COMMISSIONER

August 27, 2026
Subject: Rice Bridge
Replacement
WIN:026089.00
Location: Trescott
Township
Amendment No. 3

Dear Sir/Ms.:

Make the following changes to the Bid Book:

Insert the attached SPECIAL PROVISION SECTION 534 PRECAST STRUCTURAL CONCRETE (Design Requirements) dated August 26, 2026

Consider these changes and information prior to submitting your bid on **September 2, 2026**.

Sincerely,

A handwritten signature in blue ink that reads "George Macdougall".

George M. A. Macdougall P.E.
Contracts & Specifications Engineer

SPECIAL PROVISION
SECTION 534
PRECAST STRUCTURAL CONCRETE
(Design Requirements)

This specification is amended as follows:

534.04 Design Requirements This subsection is replaced in its entirety with the following:

The following specification is only required for precast structural concrete arches, box culverts, or three sided frames and associated wingwalls, headwalls, toe walls, cut-off walls and appurtenances.

The Contractor shall design in accordance with the AASHTO LRFD Bridge Design Specifications, latest edition. The HL-93 live load specified in the AASHTO LRFD Bridge Design Specifications shall be used for all limit states, except for Strength I. The live load used for the Strength I limit state shall be the Maine Modified live load, which consists of the standard HL-93 Live Load with a 25% increase in the Design Truck only. (Wheel loads based on the Design Truck shall be increased 25%). Additionally, if the governing load rating factor based on the HL-93 live load is equal to or less than 1.10 and the span is 14 ft, or greater, then a load rating based on the Maine legal truck (Configuration #6) shall also be checked to insure the rating factor is equal to, or greater than, 1.0.

The live load deflection check, per AASHTO LRFD Bridge Design Specifications, for the top slab of box culverts and frames with clear spans of 15 ft, or greater, and cover depths of 4 ft, or less, is mandatory. The live load deflection check shall be documented in the design computations submittal.

Design calculations that consist of computer program generated output shall be supplemented with at least one hand calculation and graphics demonstrating the design methodology used. The hand calculation shall document, at a minimum, the Strength I load case flexural design check of the top slab positive moment reinforcing steel. Design calculations shall provide thorough documentation of the sources of equations used and material properties.

The design shall be load rated in accordance with the AASHTO Manual for Bridge Evaluation, latest edition, by the LRFR method and in accordance with the Department Load Rating Guide. This load rating shall include rating factors for all FAST Act Emergency Vehicles (EV) and all Routine Permit Vehicles (RPV) found in Appendix A. The load factor for EVs shall be 1.3. The load factor for RPVs shall be no greater than 1.3.

The Contractor shall submit design calculations and load rating, if applicable, for the precast structure to the Department for review. A Professional Engineer, licensed in accordance with State of Maine laws, shall sign and seal all design calculations and drawings.

Trescott Township
Rice Bridge
WIN 026089.00
August 26, 2026

The Contractor shall submit the following items for review by the Department, at least 45 Working Days prior to production:

- A. The name and location of the manufacturer
- B. Method of manufacture and material certificates
- C. Description of method of handling, storing, transporting, and erecting the units
- D. Design computations (bound and indexed)
- E. Load rating computations and completed load rating form (bound and indexed)

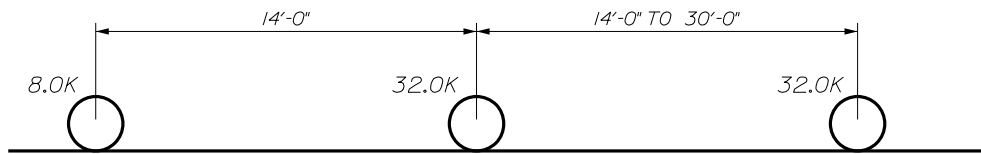
APPENDIX A

HL-93 LOADING CONFIGURATIONS

HL-93 TRUCK

GVW = 72.0 Kips

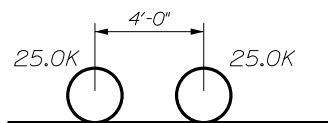
Lane Load = 0.64 Klf



HL-93 TANDEM

GVW = 50.0 Kips

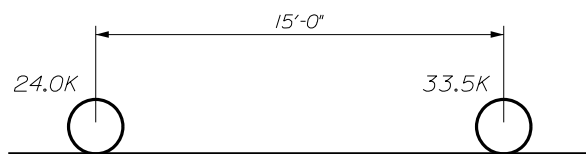
Lane Load = 0.64 Klf



FAST ACT LEGAL LOAD CONFIGURATIONS

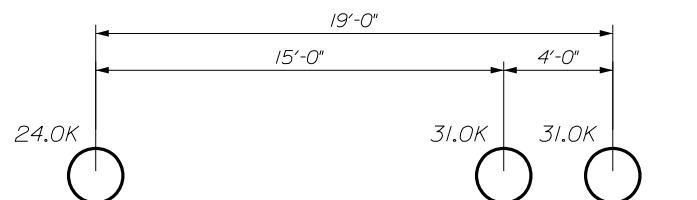
FAST ACT EV2

GVW = 57.5 Kips



FAST ACT EV3

GVW = 86.0 Kips



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LOADING CONFIGURATIONS
USED FOR BRIDGE RATING

SHEET NUMBER

1

Version 1.3 (3/10/2026)

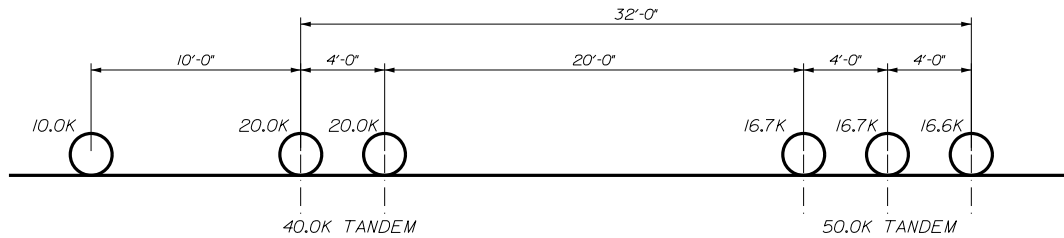
HL-93, EV2, and EV3

OF 6

MAINEDOT LEGAL LOADS

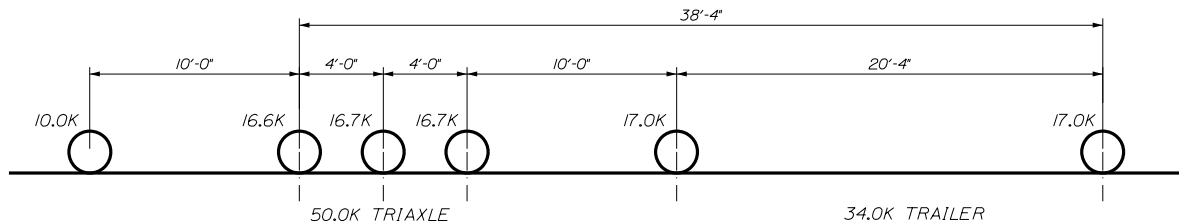
CONFIGURATION 1:

Six Axle 3 Axle Tractor Triaxle Semi-Trailer = 100 Kips



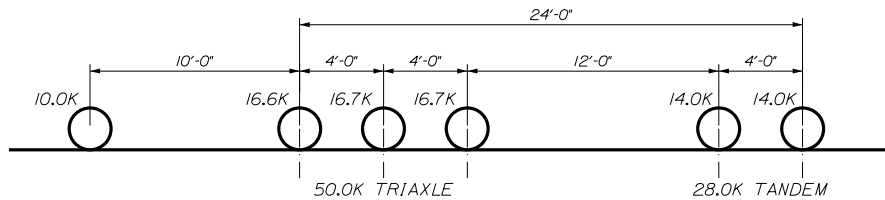
CONFIGURATION 2:

Six Axle Triaxle Truck 2 Axle Trailer = 94 Kips



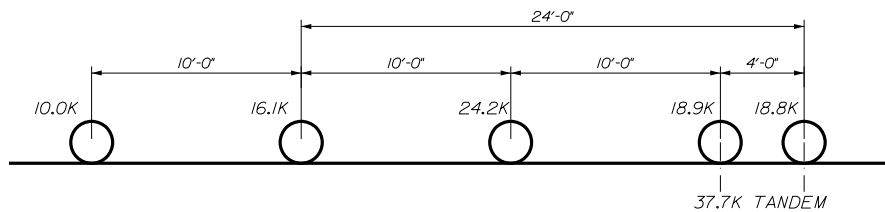
CONFIGURATION 3:

Six Axle Triaxle Truck/Tractor Tandem Semi-Trailer = 88 Kips



CONFIGURATION 4:

Five Axle Two Axle Truck/Tractor Three Axle Trailer = 88 Kips



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LOADING CONFIGURATIONS
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SHEET NUMBER

2

Version 1.3 (3/10/2026)

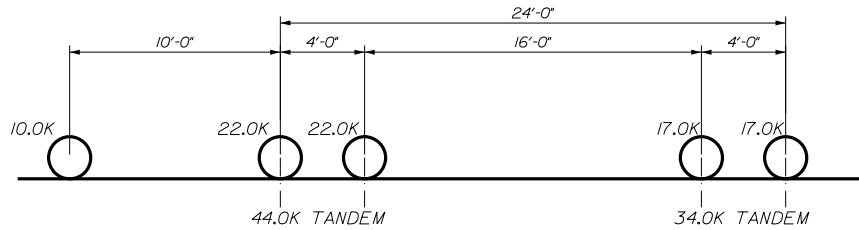
CONFIGURATIONS 1-4

OF 6

MAINEDOT LEGAL LOADS

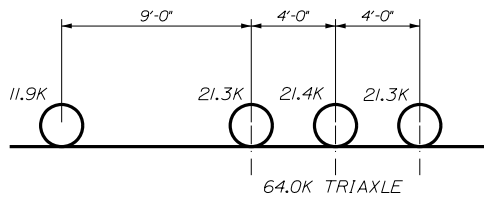
CONFIGURATION 5:

FIVE AXLE TANDEM AXLE TRUCK OR TRACTOR SEMI-TRAILER = 88 Kips



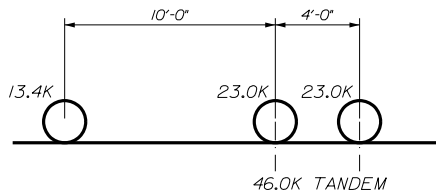
CONFIGURATION 6:

FOUR AXLE TRUCK = 75.9 Kips



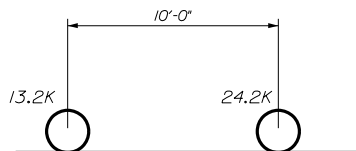
CONFIGURATION 7:

THREE AXLE TRUCK = 59.0 Kips



CONFIGURATION 8:

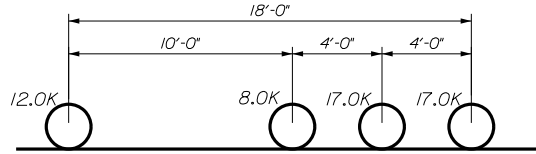
TWO AXLE TRUCK = 37.4 Kips



AASHTO SHV CONFIGURATIONS:

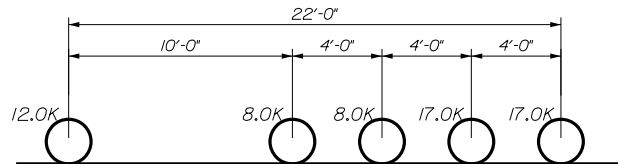
SU4 TRUCK

GVW = 54 Kips



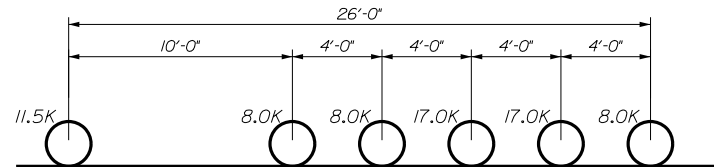
SU5 TRUCK

GVW = 62 Kips



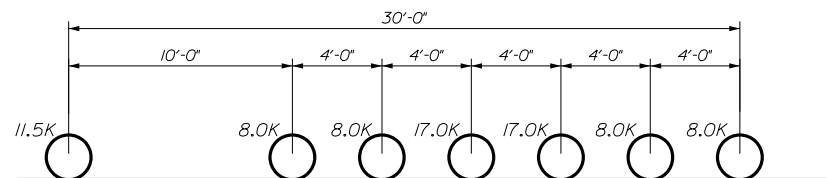
SU6 TRUCK

GVW = 69.5 Kips



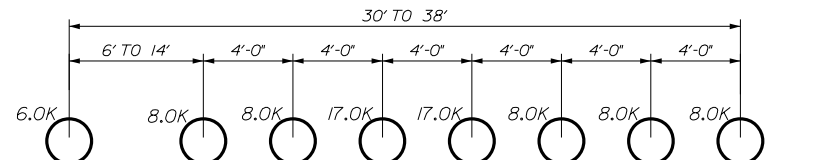
SU7 TRUCK

GVW = 77.5 Kips



NOTATIONAL RATING LOAD

GVW = 80 Kips



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LOADING CONFIGURATIONS
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SHEET NUMBER

4

Version 1.3 (3/10/2026)

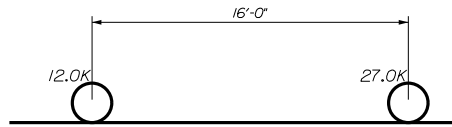
SHV CONFIGURATIONS

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RPV CONFIGURATIONS

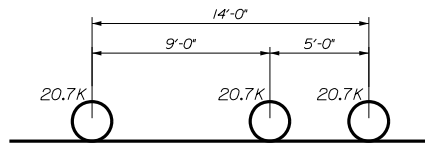
2-AXLE VEHICLE (RPV 1)

GVW = 39.1 Kips



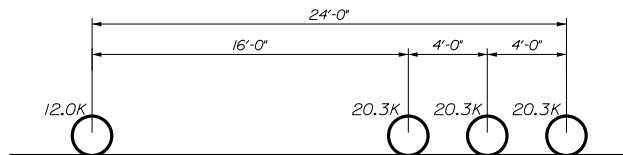
3-AXLE VEHICLE (RPV 2)

GVW = 62.1 Kips



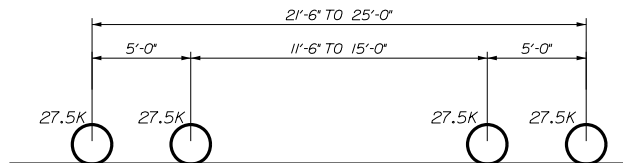
4-AXLE TRUCK (RPV 3)

GVW = 73 Kips



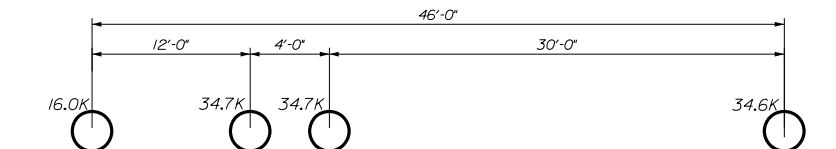
4-AXLE SPECIAL MOBILE EQUIPMENT (RPV 4)

GVW = 110.0 Kips



4-AXLE TRUCK/TRACTOR W/SEMI-TRAILER (RPV 5)

GVW = 120.0 Kips



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5

Version 1.3 (3/10/2026)

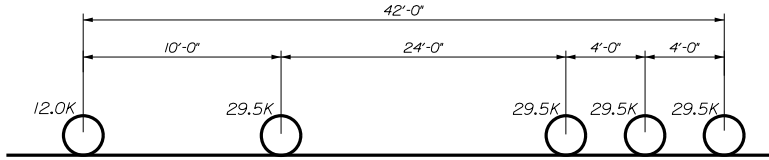
RPV CONFIGURATIONS 1-5

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RPV CONFIGURATIONS

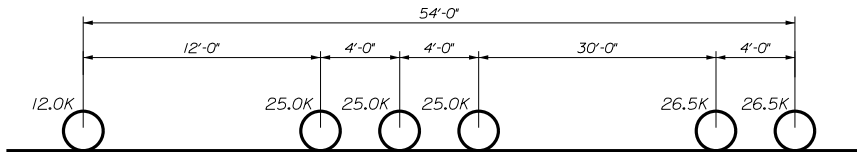
5-AXLE TRUCK/TRACTOR W/SEMI-TRAILER (RPV 6)

GVW = 130 Kips



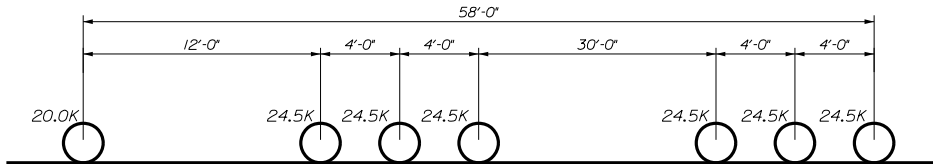
6-AXLE TRUCK/TRACTOR W/SEMI-TRAILER (RPV 7)

GVW = 140 Kips



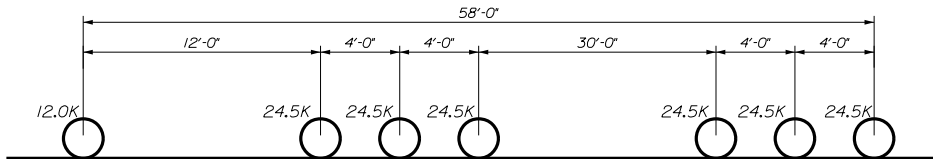
7-AXLE TRUCK/TRACTOR W/SEMI-TRAILER (RPV 8)

GVW = 167.0 Kips



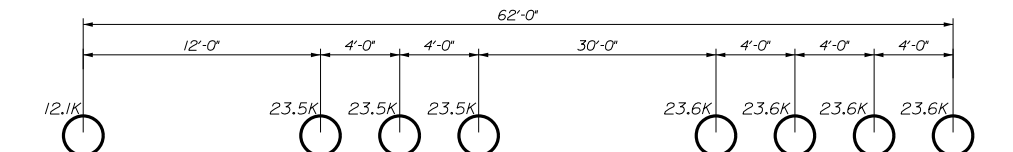
7-AXLE TRUCK/TRACTOR W/SEMI-TRAILER (RPV 9)

GVW = 159.0 Kips



8-AXLE TRUCK/TRACTOR W/SEMI-TRAILER (RPV 10)

GVW = 177.0 Kips



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6

Version 1.3 (3/10/2026)

RPV CONFIGURATIONS 6-10

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