INDOT | BRIDGE LOAD RATING AIDS

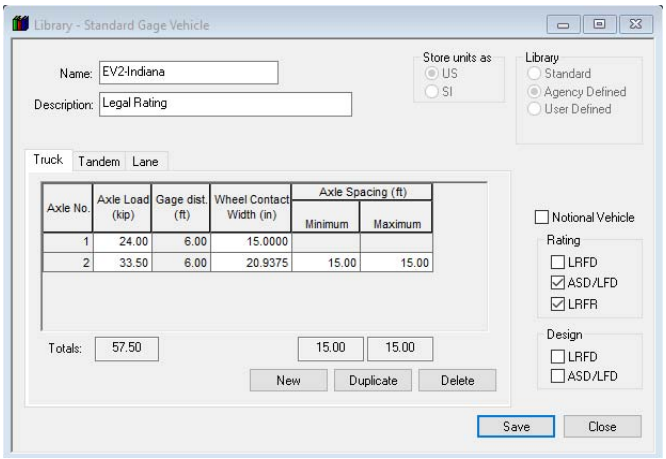
BLRA BIM 3-4.01 & 3-4.02| FEBRUARY 11, 2019

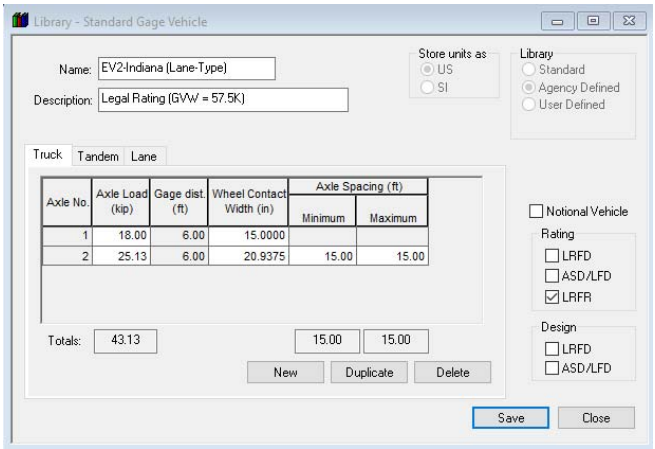
BRR 6.8.3 LOAD RATING VEHICLE CONFIGURATION

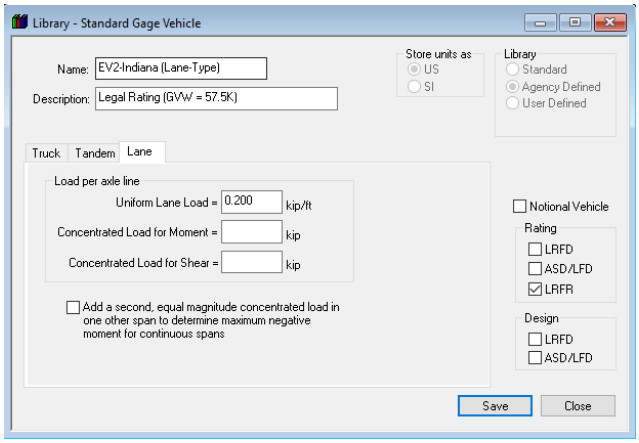
As of February 11, 2019, INDOT has updated to BrR Version 6.8.3.3001

Based on the available data, BrR 6.8.3.3001 does not yet handle FHWA Fast Act Emergency Vehicles appropriately. BrR is not combining the Truck loads with the Lane loads as described in the Manual for Bridge Evaluation (1st edition) sections 6A.4.4.2.1a and 6A.4.5.4.1. The following vehicle configurations are recommended to evaluate the FAST Act Vehicles:

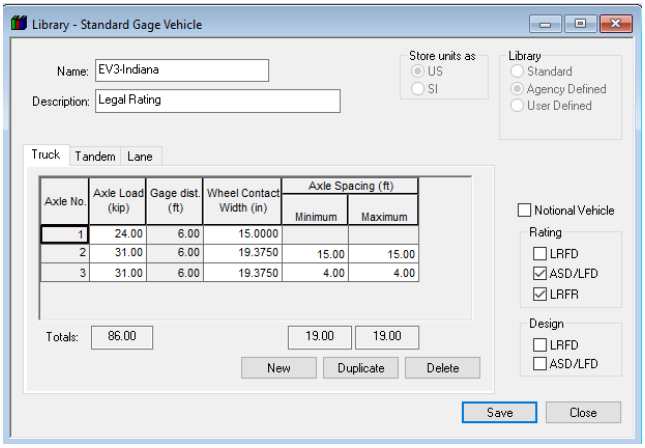
EV2 Configurations

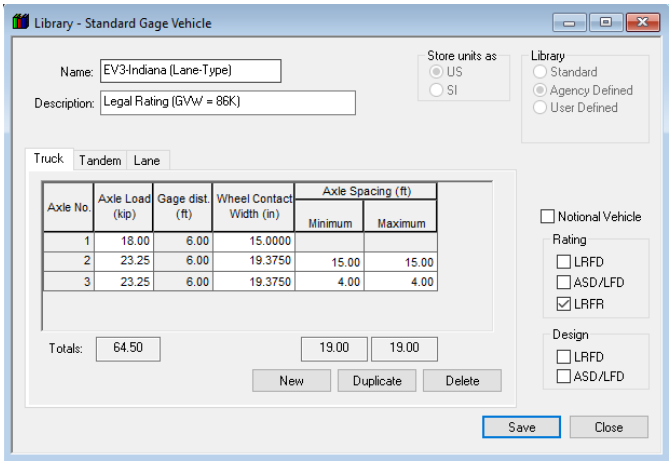


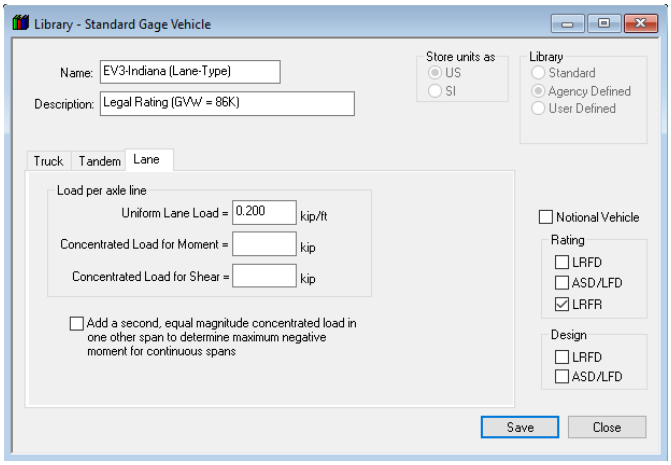




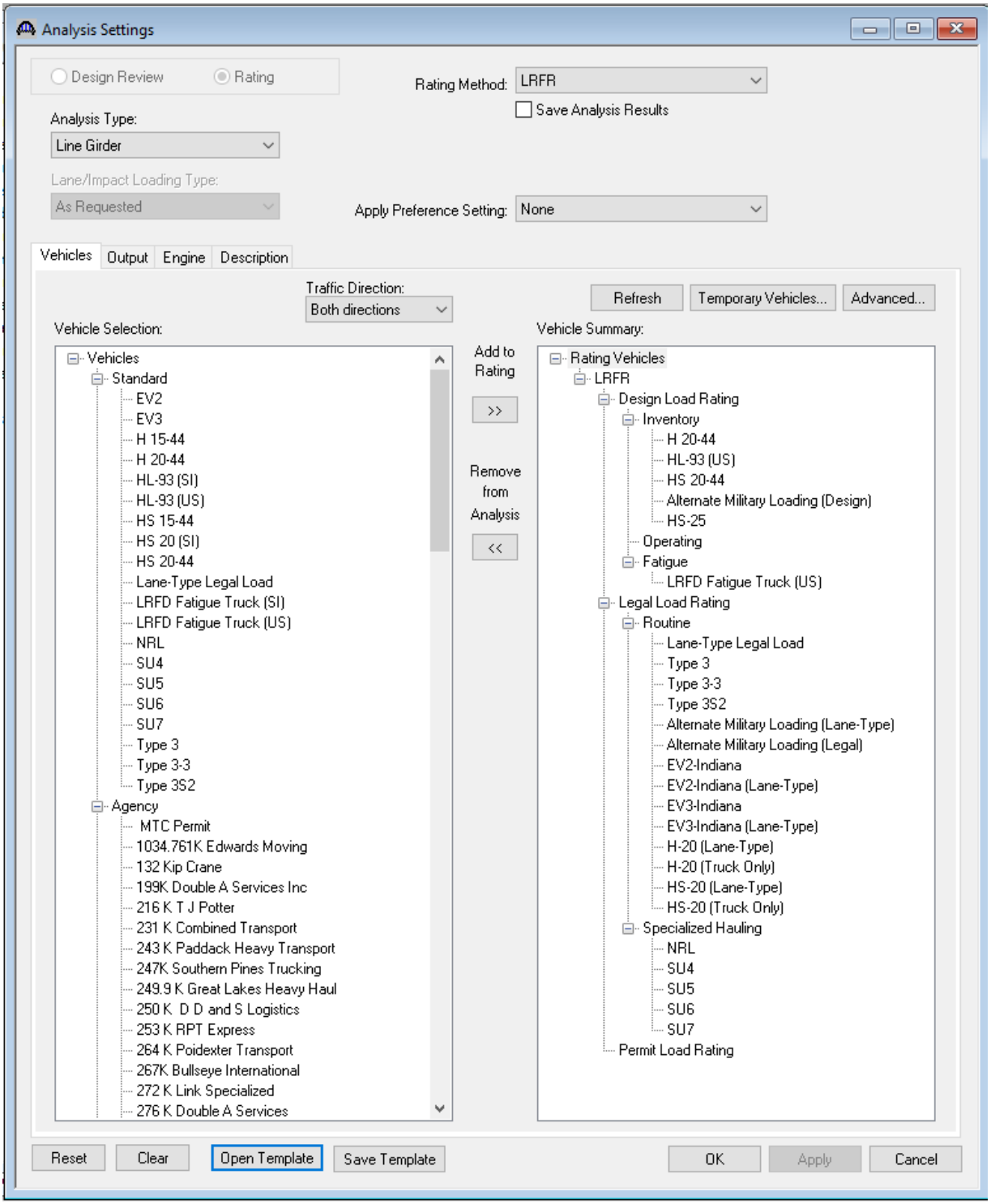
EV3 Configurations







Recommended Vehicle Template for LRFR Analysis



Advanced Vehicle Properties for LRFR Analysis Template

Vehicle Properties

Vehicle	Tandem Train	Scale Factor	Impact	Single Lane Loaded	Legal Pair	Override	Legal Live Load Factor	Frequency	Loading Condition	Override	Permit Live Load Factor
H 20-44	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
HL-93 (US)	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
HS 20-44	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
Lane-Type Legal Load	☐	1		☐	☑	☐		Single Trip	Mixed with tr	☐	
LRFD Fatigue Truck (US)	☐	1		☑	☐	☐		Single Trip	Mixed with tr	☐	
NRL	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
SU4	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
SU5	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
SU6	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
SU7	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
Type 3	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
Type 3-3	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
Type 3S2	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
Alternate Military Loading (Design)	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
Alternate Military Loading (Lane-Ty	☐	1		☐	☑	☐		Single Trip	Mixed with tr	☐	
Alternate Military Loading (Legal)	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
EV2-Indiana	☐	1		☑	☐	☑	1.3	Single Trip	Mixed with tr	☐	
EV2-Indiana (Lane-Type)	☐	1		☑	☑	☑	1.3	Single Trip	Mixed with tr	☐	
EV3-Indiana	☐	1		☑	☐	☑	1.3	Single Trip	Mixed with tr	☐	
EV3-Indiana (Lane-Type)	☐	1		☑	☑	☑	1.3	Single Trip	Mixed with tr	☐	
H-20 (Lane-Type)	☐	1		☐	☑	☐		Single Trip	Mixed with tr	☐	
H-20 (Truck Only)	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
HS-20 (Lane-Type)	☐	1		☐	☑	☐		Single Trip	Mixed with tr	☐	
HS-20 (Truck Only)	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	
HS-25	☐	1		☐	☐	☐		Single Trip	Mixed with tr	☐	

OK

Cancel

Permit lane load: kip/ft

Adjacent vehicle live load factor:

☐ Exclude permit lane load from permit vehicle location