
**Technical Note
e-Notification**

No. 08
April 9, 2020

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1. Updated Culvert Guidance

The culvert guidance has been revised and re-uploaded to ProjectWise and the Bridge Maintenance Office website. Load rating packages that have been submitted are not affected by the revisions to the guidance, as the changes are not considered retroactive. As a reminder, please check the sites often for updates, as there will not always be regular notices of updates. Please refer to the latest version of the following file:

File Name: *SCDOT LR Culvert Guidance.pdf*

2. Changes to Appendix K and Appendix O of the Bridge Inspection Guidance Document

The list of railroads provided in Appendix K, and subsequently Appendix O, of the Bridge Inspection Guidance Document (BIGD) has been modified with the following **changes**:

- Aiken Railway Company, LLC (AIKR)
- **Carolina Coastal Railway (CLNA)**
- Carolina Piedmont Railroad (CPDR)
- ~~Carolina Southern Railroad Company (CALA)~~
- CSX Transportation (CSXT)
- Greenville & Western Railway Company (GRLW)
- ~~Hampton & Branchville Railroad Company (HB)~~
- Lancaster & Chester Railway Company (LC)
- Norfolk Southern Railway (NS)
- Palmetto Railways (PR), previously South Carolina Public Railways
- Pee Dee River Railway Corporation (PDRR)
- Pickens Railway Company (PICK)
- **R.J. Corman Railroad (RJCS)**
- South Carolina Central Railroad Company (SCRF)
- **South Carolina Museum (SCMZ)**

Please note it is important to use these same designations or acronyms in all documents, as shown above, for each railroad in order to minimize confusion. Please correct these as you come across alternate descriptions (e.g. use Norfolk Southern Railway or NS instead of N-S RR or some other variant). Also utilize this list when making data corrections to NBI Item 6 (Features Intersected) on the Data Correction Form.

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3. Excel LRSF File (*HD061)

Question:

Load Rating Guidance Document (LRGD) Section 20.2.1.1, Item 2 titled “.PDF of LRSF” specifically states that the deliverable shall be a digitally signed and sealed LRSF in PDF format. The LRGD does not state anywhere that the Excel LRSF file needs to be uploaded to ProjectWise. Please confirm that the Excel LRSF file does not need to be uploaded to ProjectWise.

Answer:

The Excel LRSF file shall be uploaded as a deliverable using the recently created “LR_SF_XLSX” document type attribute in the ProjectWise wizard. This update is not considered retroactive and is not applicable to structures already submitted to the Bridge File.

4. Permit Lane Load (*HD062)

Question:

Should the Permit Lane Load of 0.2 klf be applied in all cases as described in MBE Section 6A.4.5.4.1:

- To all continuous span bridges when checking negative moment ratings
- To all bridges with spans between 200 ft and 300 ft for all load effects

Answer:

The Permit Lane Load need not be applied when checking negative moment ratings in bridges with spans $\leq 200'$. The Permit Lane Load shall be applied for all load effects when rating bridges with spans $> 200'$ (including long-span bridges with spans $> 300'$). The SCDOT BrR load rating analysis templates (date 02-28-2020) have been updated accordingly.

However, the Lane Type Permit Load-Pair as a “Lane Type” screening vehicle shall continue to be applied when rating continuous bridges with spans $< 200'$ (as currently setup in the BrR analysis templates date 02-28-2020). The intent of this e-Notification is to eliminate the necessity to apply the 0.2 klf lane load to the entire suite of permit vehicles via the Advanced Analysis Settings (shown below) when rating continuous bridges with spans $< 200'$.

Note: This answer does not apply to bridges included in the SCDOT Asset Management List (complex bridges located in Districts 5 and 6).

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Vehicle	Tandem Train	Scale Factor	Impact	Single Lane Loaded	Legal Pair	Override	Legal Live Load	Frequency	Loading Condition	Override
SC SHV1B - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>
SC SHV2A	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Single Trip	Mixed with	<input type="checkbox"/>
SC SHV2A - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>
SC SHV2B	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Single Trip	Mixed with	<input type="checkbox"/>
SC SHV2B - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>
SC SHV3A	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Single Trip	Mixed with	<input type="checkbox"/>
SC SHV3A - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>
SC SHV3B	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Single Trip	Mixed with	<input type="checkbox"/>
SC SHV3B - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>
SU4 - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>
SU5 - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>
SU6 - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>
SU7 - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>
Type 3-3 - Permit	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unlimited Cros	Mixed with	<input type="checkbox"/>

Permit lane load: kip/ft Adjacent vehicle live load factor:

Exclude permit lane load from permit vehicle location

5. BMO Approval Forms (*HD064)

Question:

May we group BMO Approval Forms when we have the same request for multiple similar assets? Also, may we use customized spreadsheets (Excel) for load rating substructures without requesting formal BMO approval?

Answer:

Yes, grouping similar assets into one BMO Approval Form for the same request form is allowed, if each Asset ID is listed in the request. When submitting to the Bridge File on ProjectWise, the blanket BMO Approval Form shall be uploaded into each structure’s Bridge File listed on the form. Also, customized spreadsheets for load rating substructures are now allowed without requesting approval.

*Previous Load Rating Project Help Desk Reference, either copied or updated for this Technical Note.

Please direct any questions concerning the above to:

Michael Baker International

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