

DATE: March 1, 2024

TO: Highway Structures Information System (HSIS) Users

FROM: DTSD – Bureau of Structures SUBJECT: **February 2024 HSIS update** 

A new version of HSIS was released on 2/27/2024. The following is a list of some of the enhancements added and bugs fixed in this release. This is not an exhaustive list.

This HSIS update contains many changes related to the SNBI. If you believe something is not working correctly, if you cannot enter something you think you should be able to, or you have questions on where to find something, please contact me.

If you discover any bugs or have suggestions for enhancements, please email <a href="mailto:ryan.bowers@dot.wi.gov">ryan.bowers@dot.wi.gov</a>. If you do find a bug, please provide as much information as possible about what structure you were working on, what browser you used, if you were using a mobile device or not, items you were editing or clicking on prior to the bug occurring, etc. The more information you provide, the better chance we have at replicating the issue, determining the cause, and fixing it. Any screenshots or videos you can take are helpful.

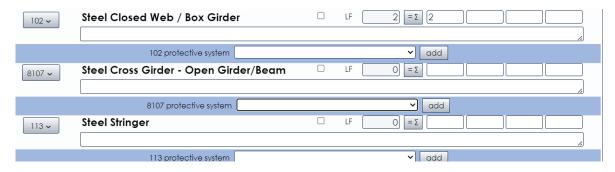
## **Enhancements**

- 1) New steel cross girder elements were added for use in inspections. These are 8102 Steel cross girder closed web/box girder and 8107 steel cross girder open girder/beam.
- 2) New asphalt wearing surface options added for use in inspections. These are 8508 asphaltic chip seal, 8509 HMA (AC) overlay with sheet membrane, and 8510 HMA (AC) overlay with spray membrane. 8512 was changed from AC overlay with membrane to HMA (AC) overlay polymer modified.
- 3) The sidewalk and median assessments are no longer to be used. They have been replaced with elements 8207 Median and 8209 Sidewalk. These elements are added via the protective surface dropdown for decks and slabs.



Protective system dropdown displaying 8207 Median and 8209 Sidewalk.

- 4) Defect 7000 Damage was added for use during inspections.
- 5) Text descriptions in HSIS for reinforced concrete cracking and prestressed concrete cracking defect condition states was updated.
- 6) Additional steel elements are now able to have a protective system added. Some examples are shown in the image below.



Steel protective system is available for more elements.

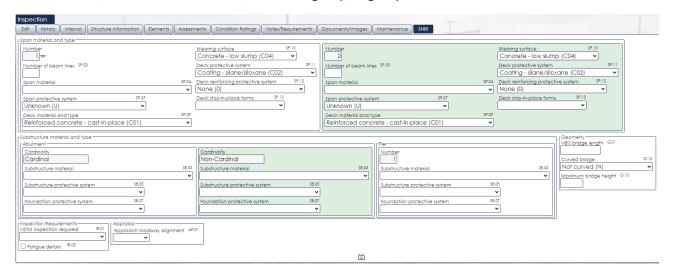
- 7) Extended and reduced interval criteria were updated in HSIS to reflect NBIS requirements.
- 8) A "begin date" field was added for inspections, and the existing "date" field was renamed to "end date". A "begin date" is required to create an inspection. An "end date" is not required to create the inspection, is required to complete the inspection, and can be entered at inspection creation if known. The same date can be entered for begin and end date.



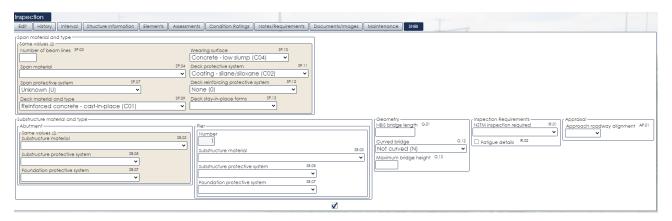
Begin data and end date fields displayed during inspection creation.

9) For a new bridge that does not have a routine inspection in HSIS, the "initial / inventory" inspection type is automatically selected when "routine" is checked. For an initial inspection done after rehabilitation to a bridge, routine is not automatically selected. A routine inspection is not required to be done with the initial inspection after a rehabilitation project. For more information on inspection types, please refer to the structure inspection manual:
<a href="https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/inspection-manual.aspx">https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/inspection-manual.aspx</a>

10) Some tabs now have an option to group together data that is the same for multiple spans, substructure units, and other items. This results in the data field being displayed only once when it is the same for each unit, simplifying data entry or review. There is a button at the bottom of the screen, above the save button, to click to group/ungroup items.

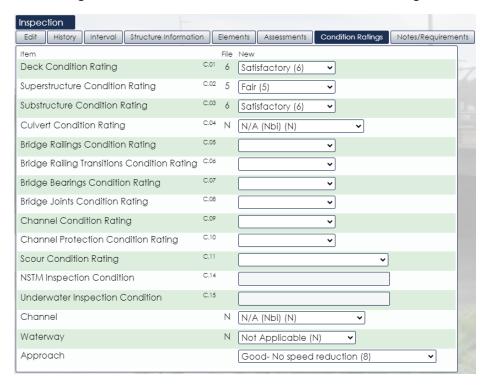


Data for each span and substructure is displayed separately.



"Same" items are grouped together reducing the number of fields displayed.

11) All condition ratings are now located on a new tab named "condition ratings".



New condition ratings tab.

12) Additional updates, such as the addition of new data fields and inspection types, were made to address NBIS and SNBI requirements. The new data fields can be found on the Condition Ratings and SNBI tabs in an inspection, and various sub-tabs of the Bridge tab.

## **Bug Fixes**

The following bugs were fixed with this version. Additional bugs not listed below were also fixed.

- 1) "Standard" was not saving when selected from the "approach guardrail adequacy" dropdown.
- 2) New options were added to the span configuration dropdown in November 2023, but these options were not returning results when used with "assist".
- 3) Bugs related to the new span types kept inspectors from being able to submit inspections of certain structure types.
- 4) User-created columnsets did not always work.