

Structure ID: _____ Feature On: _____
Date: _____ Feature Under: _____
County: _____ Municipality: _____ of _____

Introduction

This report will serve as the "independently funded engineering study" to determine if bridge _____ in the _____ of _____ meets the eligibility criteria as established in Wisconsin Administrative Code Trans 213.

Bridge Description

_____ is a _____ span _____ bridge built in year _____. The following rehabilitation work has been completed (attach additional page if more space needed):

It is _____ feet long and _____ feet wide. It is _____ Fracture Critical _____ Load Posted
_____ Scour Critical _____ Other: _____

Wisconsin Administrative Code Trans 213

Wisconsin Administrative Code Trans 213 addresses county, city, village, and township funding eligibility for local bridge replacements and local bridge rehabilitation. Local bridges that are deficient and have a sufficiency rating less than or equal to 80 are eligible for replacement funding if replacing the bridge is more cost effective than rehabilitating the bridge.

Bridges that are eligible for replacement must satisfy the following criteria:

1. The proposed replacement is more cost effective than rehabilitating the bridge.

Deficiency Analysis

A bridge is deficient if it is considered structurally deficient (SD) or functionally obsolete (FO). The following table summarizes the appraisal ratings for _____ in comparison to the criteria for being defined as SD or FO. The data was taken from (complete one):

- The most recent Eligible Bridge List, dated _____
- HSIS on _____

Rehabilitation Report for Bridge Local Program Funding - Replace Structure

Structure ID: _____ Feature On: _____
 Date: _____ Feature Under: _____
 County: _____ Municipality: _____ of _____

Deficiency Analysis Table

Description	NBI Item #	Appraisal Rating*	Bridge is SD or FO if one of the following is met:	Eligible?	
Deck Rating	(58)		<=4	Yes	No
Superstructure Rating	(59)		<=4	Yes	No
Substructure Rating	(60)		<=4	Yes	No
Culvert Rating	(62)		<=4	Yes	No
Structural Evaluation	(67)		<=3	Yes	No
Deck Geometry	(68)		<=3	Yes	No
Underclearance	(69)		<=3	Yes	No
Waterway Adequacy	(71)		<=3	Yes	No
Approach Roadway Alignment	(72)		<=3	Yes	No

*Note: NBI appraisal ratings can be found on the Eligible Bridge List or in HSIS.

_____ is considered deficient based on Trans 213 criteria and is therefore eligible for Federal replacement funds.

Replacement Analysis

The following table summarizes the _____ bridge ratings in comparison to Trans 213 criteria for rehabilitation:

Description		Trans 213 Standard	Eligible?
Bridge Sufficiency Rating		80 or less	Eligible
Cost Effective Rehabilitation	No	Rehabilitation is not cost effective	Eligible
Cost Effective Replacement	Yes	Replacement is cost effective	Eligible
Engineering Study	Provided by WisDOT Bureau of Structures	Funded independently	Eligible

_____ meets the replacement criteria in Trans 213 and thus is eligible for Federal replacement funds.

Structure ID: _____ Feature On: _____
Date: _____ Feature Under: _____
County: _____ Municipality: _____ of _____

Cost-Effective Replacement

The latest inspection data is used to determine work action eligibility. Initially the current inspection condition data is compared to the eligibility criteria for a work action. If the criteria for one work action are not met, the criteria for a different work action are checked. Work actions are checked in order of most cost-effective. If no work actions are eligible for the current year using the current inspection data, the condition data is deteriorated to project the condition in the next year. The work action criteria are then checked for the projected deteriorated condition data. This process continues until either a work action is found eligible, or until each year of the analysis period is checked and no work actions are found to be eligible based on the projected deteriorated condition data. The analysis period used for this report is seven years.

Recommended Alternative – Replacement

Replacement is a cost-effective alternative for this bridge. Replacement is shown as the recommended alternative on the Eligible Bridge List dated _____ provided by WisDOT. To be recommended for replacement, one of the following set of criteria must be met using current inspection condition or projected deteriorated condition:

- Substructure NBI \leq 3 AND one of the following:
 - Scour Critical
 - Max Vehicle Weight in HSIS $<$ 80 kips
 - Fracture Critical AND Bridge Age $>$ 50
 - Superstructure NBI \leq 3
 - Deck NBI \leq 3
 - Bridge Age $>$ 75
- Superstructure NBI \leq 3 AND Fracture Critical AND Bridge Age $>$ 40
- Culvert NBI \leq 3
- Deck NBI \leq 3 AND one of the following:
 - Bridge Age $>$ 75
 - Bridge Age $>$ 40 AND Max Vehicle Weight in HSIS $<$ 80 kips

Additional eligible criteria that may be met using current inspection condition is:

- Substructure NBI \leq 4 AND one of the following:
 - The timber piles have 30% or more of the total number of piles in Condition State 4 (CS4)
 - The timber piles have 50% or more of the total number of piles in Condition State 3 (CS3) and Condition State 4 (CS4)

Rehabilitation Report for Bridge Local Program Funding - Replace Structure

Structure ID: Feature On:
Date: Feature Under:
County: Municipality: of

The estimated cost for the structure replacement work is

This alternative meets the Trans 213 criteria for Federal bridge replacement funding. However, this report and the scope shown as eligible for funding are subject to review by WisDOT Bureau of Structures (BOS). BOS reserves the right to review the scope and inspection data, and to deny any application in which the recommended scope results from incomplete or inaccurate inspection data or for which a more cost-effective alternative is available.

Appendix

- Most recent inspection report
- Cost estimate

Completed by:

Consultant

Owner

Other: