

Information for File #2012-01643-LSP

Applicant: Minnesota Department of Transportation – District 2

Corps Contact: Lawrence S. Puchalski

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Primary County : Beltrami

Sec/Township/Range: NW ¼ Section 27, T153N, R38W and SW ¼ Section 34, T154N, R38W

Information Complete On: June 3, 2013

Posting Expires On: June 28, 2013

Authorization Type: LOP-10-R

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

PROJECT PURPOSE & NEED: According to information supplied by the applicant, the purpose of the project is to replace existing bridge number 04001 over an unnamed overflow channel within the boundaries of the Red Lake Indian Reservation in Beltrami County. The applicant states that this project is needed to provide a structurally sound bridge crossing the overflow channel to promote a safe driving surface for transit and travel.

PROJECT DESCRIPTION: The applicant is proposing to permanently discharge fill material into approximately 0.38 acres of wetlands and temporarily impact 0.71 acres of wetlands at one location in the vicinity of the bridge.

The current structure was built in 1961 and was given a bituminous overlay in 2009. The structure is a concrete channel span superstructure with seven spans, integral abutments and pile bent piers with concrete pier caps.

Information supplied by the applicant states that the bridge has several deficiencies which require the bridge to be replaced. The bridge is rated as structurally deficient with a sufficiency rating of 71.8. The structure functions as simple spans with the bituminous overlay spanning one inch cork joints. The joints are currently leaking over the piers and at the connection between superstructure elements. If the leaking continues, the bridge will continue to deteriorate and require increased maintenance.

The superstructure has an NBI rating of 4 which indicates that the superstructure is in poor condition. There are numerous spalls and longitudinal cracks in the concrete channel spans. According to the applicant, spalling and cracking is severe at the piers.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: Construction of the new bridge with approach grading will result in the permanent loss of 0.38 acres of Shrub Carr wetlands and will temporarily impact 0.71 acres of Shrub Carr wetlands.

ALTERNATIVES CONSIDERED: A no-build alternative was studied but was dismissed. The bridge, in its current condition, does not meet acceptable structural integrity standards for safety. Under this alternative, the bridge would remain in place in its current condition and the proposed replacement and grade raise would not be completed.

The applicant studied rehabilitation of the existing structure. This alternative would require the replacement of the superstructure elements and modification of substructures to accommodate the new superstructure. The depth of the superstructure is 20 inches which limits structure depth on the project. The cost of rehabilitation would exceed 70% of the replacement cost and would not fully address the purpose and need of the project and therefore rehabilitation was not given further consideration.

COMPENSATORY MITIGATION: The applicant has proposed to provide compensatory mitigation for the permanent wetland impacts by debiting credits from the Mn/DOT – BWSR road bank cooperative. The applicant has stated that they will fully restore the temporarily impacted wetlands to previous contours and elevations and the area will be seeded with an appropriate native seed mix.

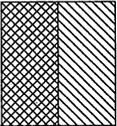
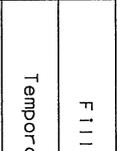
Drawings See attached.

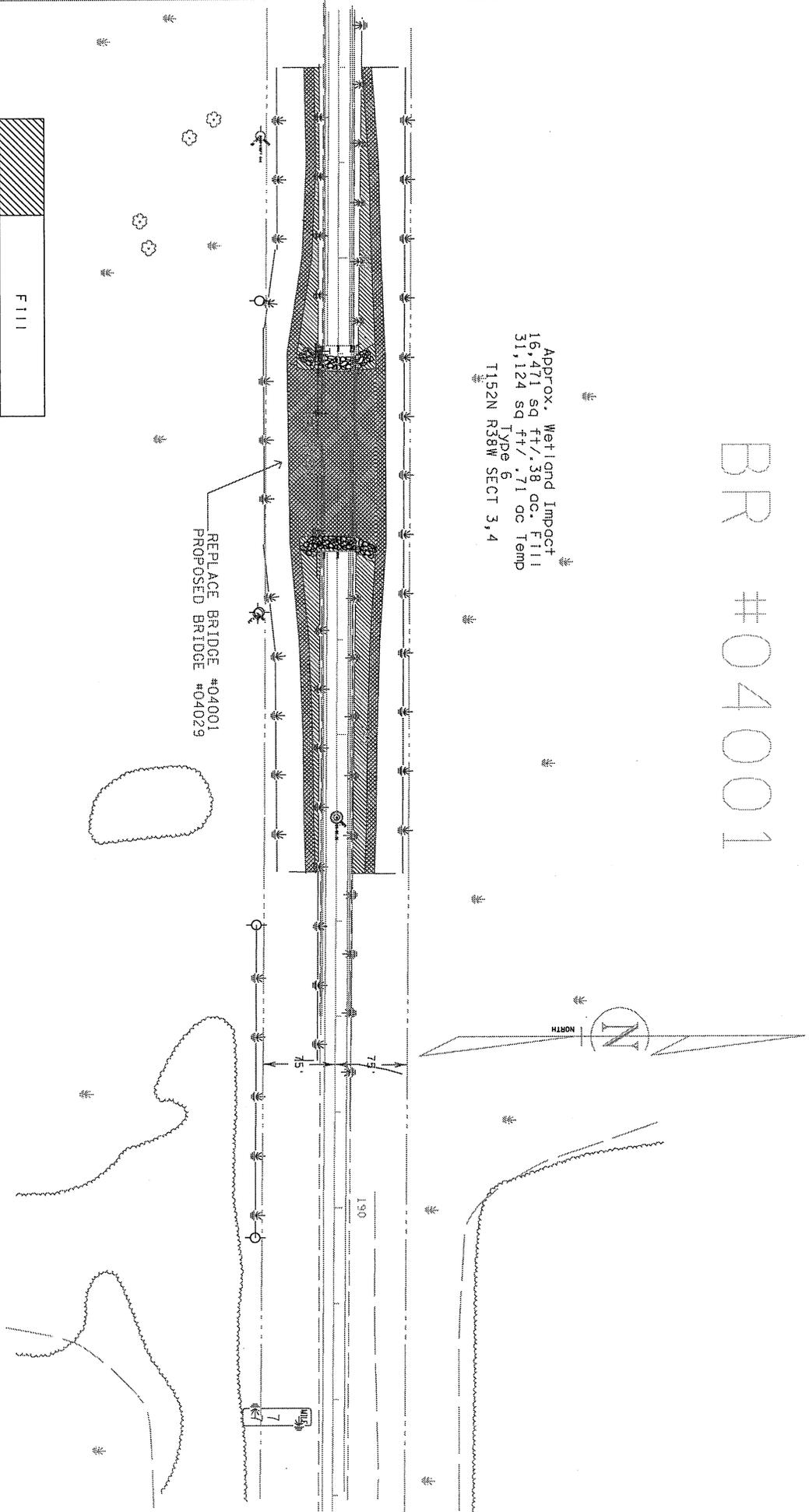
DISTRICT #: **ss**DISTRICT**ss**
IPLOT NAME: **ss**ipLOT**ss**NAME**ss**
PATH & FILENAME: **ss**ssPATHFILENAME**ss**

PLOTTED/REVISED: **ss**ssDATE**ss**

BR #04001

APPROX. Wetland Impact
16,471 sq ft/.38 ac. Fill
31,124 sq ft/.71 ac Temp
Type 6
T152N R38W SECT 3,4

	Fill
	Temporary



I HEREBY CERTIFY THAT THIS PLAN SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
ENGINEER
[Signature]
LIC. NO. 47554

Wetland Impact
STATE PROJ. NO. 0401-08 (TH 1)
SHEET NO. OF SHEETS

