MINIMUM CRITERIA DETERMINATION CHECKLIST

TIP Project No.	B-4941
W.B.S. Project No.	39904.1.1

Project Location: Bridge No. 93 on SR 1009 (Jordans Chapel Road) over Falling Creek in Wayne County

<u>Project Description:</u> The proposed project involves replacing Bridge No. 93 on SR 1009 (Jordans Chapel Road) over Falling Creek in Wayne County. The proposed project is included in the 2016-2025 North Carolina State Transportation Improvement Program (STIP). Right of way acquisition and construction are scheduled for state fiscal years 2019 and 2020, respectively, in the draft 2017-2027 STIP.

The replacement structure will be a bridge approximately 70 feet long providing a 30-foot 10-inch clear deck width. The bridge will include two 11-foot lanes and four-foot five-inch offsets. The bridge length is based on preliminary design information and is set by hydraulic requirements. The roadway grade of the new structure will be raised approximately one-foot to match the existing low steel elevation.

Construction along SR 1009 will extend approximately 100 feet from the south end and 175 feet from the north end of the new bridge. The existing approaches will be widened to 22 feet with two 11-foot lanes. Three-foot grass shoulders will be provided on each side (six-foot shoulders where guardrail is included). The roadway will be designed as a Rural Collector using Sub-Regional Tier Guidelines with a 60 mile per hour design speed.

Traffic will be detoured off-site during construction (see Figure 1).

The total cost for the project included in the draft 2017-2027 STIP is \$550,000. Of this total, \$50,000 is for right of way acquisition and \$500,000 is for construction. Current cost estimates for the project are as follows:

Right of Way Acquisition:	\$50,000*
Utilities:	\$35,000
Construction:	\$650,000
Total:	\$735,000

^{*}STIP estimate.

These estimates are based on the functional design. As project development continues in the design phase, project costs will be updated.

<u>Purpose and Need</u>: The purpose of the proposed project is to replace a deficient and functionally obsolete bridge.

NCDOT Bridge Management Unit records indicate Bridge No. 93 has a sufficiency rating of 62.36 out of a possible 100 for a new structure.

Bridge No. 93 is 35 feet long with a clear roadway width of 24-feet 10-inches. The bridge is expected to carry 940 vehicles per day in the design year (2038). The posted weight limit on the bridge is 20 tons for single vehicles and 28 tons for truck-tractor semi-trailers. The bridge was constructed in 1951 and is approaching the end of its useful life.

Anticipated Permit or Consultation Requirements: A Nationwide Permit (NWP) 3 (maintenance) will likely be required for impacts to "Waters of the United States" resulting from this project. Other permits that may apply include a NWP No. 33 for temporary construction activities such as stream dewatering, work bridges, or temporary causeways that are often used during bridge demolition. The corresponding Water Quality Certifications (likely 4085 and 4094) will also be required.

The US Army Corps of Engineers holds the final discretion as to what permit will be required for the project.

Environmental Commitments: The list of project commitments is located at the end of the checklist.

Pedestrian and Bicycle Accommodations: This portion of SR 1009 is not a part of a designated bicycle route nor is it listed in the STIP as a bicycle project. No temporary bicycle or pedestrian accommodations are required for this project.

Bridge Demolition: Bridge No. 93 is made entirely of timber with an asphalt deck. Additionally, several concrete collars have been added as temporary pile repairs. Based on standard demolition practices, it should be possible to remove with no resulting debris in the water.

Alternatives Considered:

No Build – The no build alternative would result in eventually closing the road. Given the volume of traffic served by SR 1009, this is not acceptable.

Rehabilitation – Rehabilitation of the old bridge is not practical due to its age and deteriorated condition.

Onsite Detour – An onsite detour was not evaluated due to the presence of an acceptable offsite detour.

Staged Construction – Staged construction was not considered because of the availability of an acceptable offsite detour.

New Alignment – Given that the alignment for SR 1009 is acceptable, a new alignment was not considered as an alternative.

Offsite Detour – Bridge No. 93 will be replaced on the existing alignment. Traffic will be detoured offsite (see Figure 1) during the construction period. The offsite detour for this project will include SR 1101, SR 1102, and US 13. The majority of traffic on the road is through traffic. The detour for the average road user would result in three miles of additional travel. School bus service in the area will be maintained by utilizing existing driveways for turnarounds.

Public Involvement:

A landowner notification letter was sent to all property owners affected directly by this project in February 2015. Property owners were invited to comment. No comments have been received to date.

PART A: MINIMUM CRITERIA

		YES	NO
1.	Will the proposed project involve land disturbing activity of more than ten acres that will result in substantial, permanent changes in the natural cover or topography of those lands?		
2.	Will the proposed project require the expenditure of more than ten million dollars in public funds?		\boxtimes
3.	Is the proposed project listed as a type and class of activity which would qualify as a Non-Major Action under the Minimum Criteria rules?		
If "ye	es", under which category?	Category	#9
(Note	e: If either Category #8 or #15 is used, complete Part D of this checklist.)		
qualif	es" is selected for either Question 1 or 2 and "no" is selected for Question 3, then the sy as a Non-Major Action. A state environmental impact statement (SEIS) or statement (SEA) will be required.		
PAR'	T B: MINIMUM CRITERIA EXCEPTIONS		
		YES	NO
4.	Does the proposed activity have a significant adverse effect on wetlands; surface waters such as rivers, streams, and estuaries; parklands; prime or unique agricultural lands; or areas of recognized scenic, recreational, archaeological, or historical value?		\boxtimes
5.	Will the proposed activity endanger the existence of a species on the Department of Interior's threatened and endangered species list?		\boxtimes
6.	Would the proposed activity cause significant changes in land use concentrations that would be expected to create adverse air quality impacts?		\boxtimes
7.	Would the proposed activity cause significant changes in land use concentrations that would be expected to create adverse water quality or groundwater impacts?		\boxtimes
8.	Is the proposed activity expected to have a significant adverse effect on long-term recreational benefits?		\boxtimes
9.	Is the proposed activity expected to have a significant adverse effect on shellfish, finfish, wildlife, or their natural habitats?		\boxtimes
10.	Will the proposed activity have secondary impacts or cumulative impacts that may result in a significant adverse impact to human health or the environment?		\boxtimes
11.	Is the proposed activity of such an unusual nature or does the proposed activity have such widespread implications, that an uncommon concern for its environmental effects has been expressed to NCDOT?		

Note: If any of Questions 4 through 11 in part B are answered "YES", the proposed project does not qualify as a Non-Major Action. A SEIS or SEA will be required.

PART C: COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

			YES	NO
Ecol	ogical Im	<u>pacts</u>		
12.		erally protected threatened or endangered species, or its habitat, likely to cted by the proposed action?		
13.	Does the States?	e action require the placement of fill in waters of the United		
14.	4. Does the project require the placement of a significant amount of fill in high quality or relatively rare wetland ecosystems, such as mountain bogs or pine savannahs?			\boxtimes
15.	Does the	e project require stream relocation or channel changes?		\boxtimes
16.		roposed action located in an Area of Environmental Concern, as defined oastal Area Management Act?		\boxtimes
Cult	ural Resou	irces		
17.	Will the	project have an "effect" on a property or site listed on the National of Historic Places?		
18.		proposed action require acquisition of additional right of way from owned parkland or recreational areas?		\boxtimes
Ques	stion 12:	Although not listed for Wayne County, the US Fish and Wildlife Service programmatic biological opinion (PBO) in conjunction with the Federal Administration, the US Army Corps of Engineers, and NCDOT for the neared bat (NLEB) in eastern North Carolina. The PBO covers the entire I in Divisions 1-8, including all NCDOT projects and activities. The programmation for NLEB for the NCDOT program is "May Affect, Likely Affect." The PBO provides incidental take coverage for NLEB and will compliance with Section 7 of the Endangered Species Act for five year for project with a federal nexus in Divisions 1-8, which includes Wayne County Page 1-8.	Highway orthern lo NCDOT p rammatic y to Adver- ensure or all NCI	ng- orogram
Ques	stion 13:	The new bridge will require the placement of bents in the water and rip-r slopes. This work is considered placement of fill in Waters of the US. In project will impact approximately 0.30 acres of wetland. This area is bas functional design slope stakes (construction limit) plus a forty-foot buffe	addition, ed on the	

PART D: (To be completed when either category #8 or #15 of the rules is used.)

- 19. Project length:
- 20. Right of Way width:
- 21. Total Acres of Disturbed Ground Surface:
- 22. Total Acres of Wetland Impacts:
- 23. Total Linear Feet of Stream Impacts:
- 24. Project Purpose:

Reviewed by:

7/19/2017

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DocuSigned by:

Date Aaron Heustess, PE

Consultant Project Manager Kimley-Horn and Associates, Inc

7/19/2017

Date Gregory M. Blakeney

Project Planning Engineer

Project Development & Environmental Analysis Unit

7/24/2017

Date

James McInnis Jr, PE

Project Engineer

DocuSigned by:

Project Development & Environmental Analysis Unit

PROJECT COMMITMENTS:

Wayne County Bridge No. 93 on SR 1009 Over Falling Creek W.B.S. No. 39904.1.1 STIP Project B-4941

Division Four Construction

In order to have time to adequately reroute school buses, Wayne County Schools will be contacted at (919) 705-6084 at least one month prior to road closure.

Wayne County Emergency Services will be contacted at (919) 731-1416 at least one month prior to road closure to make the necessary temporary reassignments to primary response units.

This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

Hydraulics Unit

The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP), to determine status of project with regard to applicability of NCDOT'S Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).



