Wetlands PQS Memorandum

DATE 3/14/2016

TO Ryan Walkowiak, NDOR EDU

FROM Kimberly Baker, NDOR EPU

SUBJECT Wetlands PQS Memo
Project No: STP-70-4(109)
Control No: 42575
Project Name: Ord South

☒A wetland delineation was completed September 16th and 17th, 2013
Or
☐A desktop review was completed on Click here to enter a date.

Are there wetlands, stream channels, or other waters within the study area?
☒ Yes ☐ No

Will the action result in wetland impacts in accordance with Section 404 of the Clean Water Act and/or Nebraska State Title 117?
☒ Yes ☐ No ☐ Not Applicable

If the project is processed with a Nationwide Permit, is a Pre-construction Notification required?
☐ Yes ☒ No ☐ Not Applicable

Describe resources, <u>potential</u> impacts and anticipated permit type (*Include estimated permanent wetland impacts (acres). If known, also provide estimated temporary wetland impacts (acres), estimated channel impacts (linear feet/acres), special wetland areas, cause of impacts, and any Nationwide Permit information.*): Approximately 0.35 acres of PEMA/C wetlands will be permanently impacted as a result of culvert extensions, flattening foreslopes, guardrail and associated grading. Approximately 70 ft. of channel will be impacted due to a culvert extension. Based on the project description, this project qualifies for a NWP 3(a).

Cowardin Class Impacted (*Select all that apply*)
☒ Palustrine ☐ Riverine ☐ Lacustrine ☐ Not Applicable

Describe any coordination conducted to date with officials/agencies (*Include: Any coordination with USACE)*: NA

Wetlands/Waters of the U.S. Mitigation
☐ On-Site/Permittee Responsible ☐ USACE Approved Mitigation Bank Site ☒ Not Applicable

<u>Wetlands/Waters of the U.S. Commitments:</u>
The Contractor shall not stage, store, waste or stockpile materials and equipment in undisturbed locations, or in known/potential wetlands and/or known/potential streams that exhibit a clear "bed and

Bank" channel. Potential wetland areas consist of any area that is known to pond water, swampy areas or areas supporting known wetland vegetation or areas where there is a distinct difference in vegetation (at lower elevations) from the surrounding upland areas.

☒ All wetlands/waters within the project area that are not permitted for impacts will be marked on the 2W aerial sheets for the contractor as avoidance areas.

Select one of the following:

☐ No wetland impacts are anticipated for this project; however, if impacts are found during design, the required permits shall be obtained prior to letting. NDOR Environmental shall reevaluate the project for the change in impacts. All wetlands within the project area shall be marked on the project plans and on the Green Sheet for the Contractor as avoidance areas. (NDOR Design, NDOR Environmental)

☒ The project qualifies under Nationwide Permit # 3(a). The contractor shall adhere to the permit conditions, including regional and general conditions, during construction. (Contractor)

☐ The project will require a Nationwide Permit for impacts to waters of the U.S. The permit shall be obtained prior to project letting. The contractor shall adhere to all permit conditions, including regional and general conditions, during construction. (NDOR Environmental, Contractor)

Project Description:

This 3R (Resurfacing, Restoration and Rehabilitation) project will resurface 0.02 miles of N-58 and 13.89 miles of N-70 located in Valley County. This project will start on N-58 at mile marker (MM) 52+13 and extend north to MM 52+15 (N-58/N-70 junction). The project continues north on N-70 from MM 108+27 to MM 122+16, ending at the N-70/N-11 junction. The commemorative marker turnout located at MM 113+88 will be resurfaced. Construction may begin and/or end approximately 200 feet ahead of or beyond the actual project limits to accommodate transitioning the pavement.

The existing roadway on this segment of N-58 and N-70 consists of two 12 foot wide asphalt lanes and 6 foot earth shoulders.

Improvements on this project consist of widening 2'-6" left and right, and milling and resurfacing, resulting in a 28 foot wide surfaced top with beveled edges. There will be a grade raise at the new edge of pavement. Existing culvert ends within the Fixed Obstacle Clear Zone (FOC) will be extended, and existing headwalls within FOC will be removed and replaced with flared end sections. In addition, guardrail will be added, removed, replaced, and surfaced underneath.

Scope details include:

- Grading beyond the hinge point will be required for the following work:
    - Culvert extensions
    - Guardrail
    - Mailbox turnouts
    - Earth shoulder construction
    - Drives and intersections
    - Turn lanes
    - Shoulder surfacing
    - Roadway grading for culvert extensions
    - Erosion curb and flumes
    - Flattening fore slopes
    - Superelevation

- There are a total of 20 culverts along this segment that will be impacted by the project. As-built plans and field survey indicate that there are existing culverts inside of the Fixed Obstacle Clear Zone.
    - Culvert ends require extension beyond the Fixed Obstacle Clear Zone.
    - Existing culvert headwalls within the Fixed Obstacle Clear Zone will be removed and replaced with flared end sections.
- Guardrail
    - Remove guardrail with grading beyond the hinge point.
    - Remove and replace guardrail with grading beyond the hinge point.
    - New guardrail with grading beyond the hinge point.
- Existing asphalt will be milled prior to resurfacing.
- Existing surfaced driveways and intersections will be resurfaced.
- Rock or gravel will be placed behind driveways and intersections to match the new asphalt.
- Mailbox turnouts will be constructed.
- Surfacing will be placed under the guardrail.
- The existing earth shoulders will be brought up to match the new asphalt.
- The widening operation will remove material adjacent to the existing surfacing. This trench will be filled with asphaltic concrete.
- Project surveying and staking will be required.
- Areas disturbed during construction will be stabilized utilizing methods of erosion control as shown in the Storm Water Pollution Prevention Plan (SWPPP).
- Permanent pavement markings will be applied to all new surfacing.
- Rumble stripes will be constructed on the outside edge of travel lanes.
- Additional property rights will be required to build this project.
- Access to adjacent properties will be maintained during construction but may be limited at times due to phasing requirements.
- This project will be constructed under traffic with lane closures controlled with approved temporary traffic control.
- Median on the approach (N-22) will be built.