

AECOM # 60618489

HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
06/2017 s.66.0901(7) Wis. Stats

Proposal Number: **028**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Bayfield	8160-00-71	WISC 2019816	Ashland - Bayfield; Boyd Creek Bridge B-04-0008	STH 013

This proposal, submitted by the undersigned bidder to the Wisconsin Department of Transportation, is in accordance with the advertised request for proposals. The bidder is to furnish and deliver all materials, and to perform all work for the improvement of the designated project in the time specified, in accordance with the appended Proposal Requirements and Conditions.

Proposal Guaranty Required: \$75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: January 14, 2020 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time 95 Working Days	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 2%	

This certifies that the undersigned bidder, duly sworn, is an authorized representative of the firm named above; that the bidder has examined and carefully prepared the bid from the plans, Highway Work Proposal, and all addenda, and has checked the same in detail before submitting this proposal or bid; and that the bidder or agents, officer, or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal bid.

Do not sign, notarize, or submit this Highway Work Proposal when submitting an electronic bid on the Internet.

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

(Bidder Signature)

(Print or Type Name, Notary Public, State Wisconsin)

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

Notary Seal

Type of Work: Excavation, Base, HMA Pavement, Curb and Gutter, Beam Guard, Pavement Marking, Bridge Replacement	For Department Use Only
Notice of Award Dated	Date Guaranty Returned

**Special Provisions
Table of Contents**

Article	Description	Page #
1.	General.....	2
2.	Scope of Work.....	2
3.	Prosecution and Progress.....	2
4.	Traffic.....	3
5.	Holiday Work Restrictions.....	4
6.	Utilities.....	4
7.	Hauling Restrictions.....	5
8.	Information to Bidders, WPDES General Construction Storm Water Discharge Permit.....	5
9.	Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.....	5
10.	Environmental Protection, Aquatic Exotic Species Control.....	5
11.	Environmental Protection, Eagles.....	6
12.	Environmental Protection – Dewatering.....	6
13.	Erosion Control.....	8
14.	Erosion Control Structures.....	8
15.	Notice to Contractor – Low-Level Contaminated Soil within Construction Limits.....	8
16.	Health and Safety Requirements for Workers Remediating Contamination.....	10
17.	Notice to Contractor, Notification of Demolition and/or Renovation No Asbestos Found.....	10
18.	Removing Riprap Light, Item 204.9035.S.01.....	11
19.	Removing Riprap Heavy, Item 204.9035.S.02.....	11
20.	Removing Apron Endwalls for Culvert Pipe, Item 204.9060.S.01.....	11
21.	Removing Apron Endwalls for Underdrain, Item 204.9060.S.02.....	12
22.	Removing Pipe Underdrain Wrapped 6-Inch, Item 204.9090.S.01.....	12
23.	Removing Geotextile Fabric Type HR, Item 204.9180.S.01.....	12
24.	Removing Geotextile Fabric Type R, Item 204.9180.S.02.....	13
25.	Select Borrow.....	13
26.	Bar Steel Reinforcement HS Stainless Structures, Item 505.0800.S.....	14
27.	Temporary Structure Station 112+87.....	15
28.	Riprap.....	16
29.	Salvaged Rail.....	16
30.	Removing Signs Type II, Item 638.2602.....	17
31.	Geotextile, Type C, Item 645.0105.....	17
32.	Locating No-Passing Zones, Item 648.0100.....	17
33.	Excavation, Loading and Hauling of Low-Level Contaminated Soil, Item SPV. 0035.01.....	17
34.	Salvage and Reinstall Sign, Item SPV. 0060.01.....	19
35.	Culvert Pipe Salvaged And Reinstalled (24-Inch), Item SPV.0090.01.....	19
36.	Removing Old Structure Over Waterway Modified Sta 112+87, Item SPV.0105.01.....	20
37.	Excavation For Structures Bridges Modified B-4-114, Item SPV.0105.02.....	21

STSP'S Revised June 18, 2019

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 8160-00-71, Ashland – Bayfield, Boyd Creek Bridge B-04-0008, STH 13, Bayfield County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2020 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20190618)

2. Scope of Work.

The work under this contract shall consist of removing old structure over waterway, excavation common, excavation for structures bridges, select borrow, base aggregate dense, concrete pavement approach slabs, HMA pavement, asphaltic surface temporary, new Structure B-04-0114, temporary structure, riprap heavy, temporary and permanent guardrail, erosion and traffic control, pavement marking, excavation, loading and hauling of low-level contaminated soil and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

Begin work within ten calendar days after the engineer issues a written notice to do so.

Provide the time frame for construction of the project within the 2020 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

To revise the time frame, submit a written request to the engineer at least two weeks before the beginning of the intended time frame. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

Fish Spawning

There shall be no instream disturbance of Boyd Creek as a result of construction activity under or for this contract, from September 15 to May 15 both dates inclusive, in order to avoid adverse impacts upon the spawning of coho salmon and brook trout.

Any change to this limitation will require submitting a written request by the contractor to the engineer, subsequent review and concurrence by the Department of Natural Resources in the request, and final approval by the engineer. The approval will include all conditions to the request as mutually agreed upon by WisDOT and DNR.

Northern Long-eared Bat (*Myotis septentrionalis*)

Northern Long-eared Bats (NLEB) have the potential to inhabit the project limits because they roost in trees. Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the Federal Endangered Species Act. If an individual bat or active roost is encountered during construction operations, stop work and notify the engineer and the WisDOT Regional Environmental Coordinator (REC).

In accordance to the final 4(d) rule issued for the NLEB, the department has determined that the proposed activity may affect, but will not result in prohibited take of the NLEB. The activity involves tree removal, but will not occur within 0.25 miles of a known hibernacula, nor will the activity remove a known maternity roost tree or any other tree within 150 feet of a known maternity roost tree.

If additional trees need to be removed, no Clearing shall occur without prior approval from the engineer, following coordination with the WisDOT REC. Additional tree removal beyond the area originally specified will require consultation with the United States Fish and Wildlife Service (USFWS) and may require a bat presence/absence survey. Notify the engineer if additional Clearing cannot be avoided to begin coordination with the WisDOT REC. The WisDOT REC will initiate consultation with the USFWS and determine if a survey is necessary.

Submit a schedule and description of Clearing operations with the ECIP 14 days prior to any Clearing operations. The department will determine, based on schedule and scope of work, what additional erosion control measures shall be implemented prior to the start of Clearing operations, and list those additional measures in the ECIP.

Low-Level Contaminated Soil Hauling Restriction

This contract requires the hauling of low-level NNOC contaminated soil to a WDNR-approved management site located within the Former Barksdale Works site, which is located a short distance from the project. The roads within the Former Barksdale Works site from STH 13 to the WDNR-approved management site are surfaced with deteriorated asphalt pavement and earth. Do not attempt to haul low-level NNOC contaminated soil to the WDNR-approved management site until receipt of notification from the engineer that these roads are open. The estimated date when these roads will be open is June 1, 2020. The Chemours Company, which is the responsible party for the Former Barksdale Works, will notify the engineer and the environmental consultant when these roads are open for the hauling of low-level NNOC contaminated soil to the WDNR-approved management site. The address of the WDNR-approved management site and the estimated one-way distance from the project to the WDNR-approved management site are shown in the Excavation, Loading and Hauling of Low-Level Contaminated Soil, Item SPV.0035.01 special provisions article.

4. Traffic.

Maintain through traffic at all times on STH 13 and the temporary bypass.

Maintain emergency access to the project area at all times.

Maintain two 12-foot travel lanes on STH 13 and on the temporary bypass using the details provided in the plan or as directed by the engineer. Traffic may be reduced to one lane using flagging operations Monday at 6:00 AM until Friday at 12:00 PM each week as allowed by the engineer, except during holiday work restrictions. Maintain a 12-foot minimum lane width.

Maintain a 16-foot minimum lane width plus shoulder width to accommodate oversize overweight vehicles.

Perform lane closures associated with switching traffic from STH 13 to the temporary bypass or from the temporary bypass to STH 13 Monday – Thursday between 9:00 AM and 3:00 PM and Friday between 9:00 AM and 12:00 PM as allowed by the engineer, except during holiday work restrictions.

Install traffic control devices for the temporary bypass as shown on S.D.D. 15D31-3, Traffic Control, Temporary Bypass Roadway, except that the WO1-6 signs shall be 60 x 30 - Inches and the WO13-1 signs shall be 36 x 36 - Inches. The advisory speed on the WO13-1 signs shall be 35 mph. The buffer space between the contractor storage areas at each end of the STH 13 work area and the temporary bypass southbound lane shall be 220 feet.

Do not park or store equipment, vehicles, or construction materials within 30 feet of the edge of the STH 13 or temporary bypass traffic lanes during non-working hours.

Keep all private entrances and field entrances accessible at all times, unless written permission is obtained from the property owner 48 hours in advance of closing the access.

Wisconsin Lane Closure System Advance Notification

Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS).

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction less than 16 feet)	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction 16 feet or greater)	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.

5. **Holiday Work Restrictions.**

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 13 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, April 10, 2020 to 6:00 AM Monday, April 13, 2020 for Easter;
- From noon Friday, May 22, 2020 to 6:00 AM Tuesday, May 26, 2020 for Memorial Day;
- From noon Thursday, July 2, 2020 to 6:00 AM Monday, July 6, 2020 for Independence Day;
- From noon Friday, September 4, 2020 to 6:00 AM Tuesday, September 8, 2020 for Labor Day;
- From noon Wednesday, September 30, 2020 to 6:00 AM Monday, October 5, 2020 for Bayfield Applefest.

stp-107-005 (20181119)

6. **Utilities.**

This contract comes under the provision of Administrative Rule Trans 220.

stp-107-065 (20080501)

CenturyLink (Communication Line) CenturyLink will be removing aerial cable that conflicts with the temporary road along the east (RT) side of STH 13. Starting at approximately Station 122+00 they will remove poles and cable going south to Station 103+00. Cable will not need to be replaced. CenturyLink plans to remove telephone poles and cables prior to construction.

Charter Communications (Communication Line) Spectrum has fiber optic cable on the west side of the project limits. The fiber is encased in a 1 ¼ inch duct and can remain in place under heavy riprap or concrete flume. No conflict anticipated.

Northern Natural Gas Company (GAS) has an underground gas line on the east (RT) side of STH 13 approximately 190 feet from STH 13 centerline, no conflicts are anticipated.

Novado (Communication Line) has FO along the west (LT) side of STH 13 approximately 100 feet from STH 13 centerline, no conflicts are anticipated.

Xcel Energy (Electricity) has overhead on the west (LT) side of STH 13. PPOL at Station 112+54 LT is proposed to be moved prior to construction to location Station 112+24 LT. PPOL at Station 114+68 LT is proposed to be moved and replaced at the same location prior to construction.

Xcel Energy (GAS) has an underground gas line on the west (LT) side of STH 13 approximately 90 feet from STH 13 centerline, no conflicts are anticipated.

7. Hauling Restrictions.

Replace standard spec 107.8(3) with the following:

At all times, conduct operations in a manner that will cause a minimum of inconvenience to the free flow of traffic on roadways.

All vehicles and equipment will be equipped with hazard identification beam (flashing yellow signal of 8-inch diameter) or strobe equivalent light. The beam will be activated when merging into, exiting from, or operating within 20 feet of live traffic.

All vehicles hauling materials that are subject to spillage will be equipped with a tailgate and adequate sideboards when travelling on all roads. Covers and or other protective devices shall be used to prevent any spillage when determined necessary by the engineer. Any debris or spillage falling onto the traveled way shall be removed immediately.

8. Information to Bidders, WPDES General Construction Storm Water Discharge Permit.

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Phil Keppers at (715) 395-3027. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

9. Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Phil Keppers at (715) 395-3027.

stp-107-054 (20080901)

10. Environmental Protection, Aquatic Exotic Species Control.

Exotic invasive organisms such as VHS, zebra mussels, purple loosestrife, and Eurasian water milfoil are becoming more prolific in Wisconsin and pose adverse effects to waters of the state. Wisconsin State Statutes 30.07, "Transportation of Aquatic Plants and Animals; Placement of Objects in Navigable Waters", details the state law that requires the removal of aquatic plants and zebra mussels each time equipment is put into state waters.

At construction sites that involve navigable water or wetlands, use the follow cleaning procedures to minimize the chance of exotic invasive species infestation. Use these procedures for all equipment that comes in contact with waters of the state and/or infested water or potentially infested water in other states.

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels before being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Guidelines from the Wisconsin Department of Natural Resources for disinfection are available at:

<http://dnr.wi.gov/topic/invasives/disinfection.html>

Use the following inspection and removal procedures:

1. Before leaving the contaminated site, wash machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
2. Drain all water from boats, trailers, bilges, live wells, coolers, bait buckets, engine compartments, and any other area where water may be trapped;
3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in a garbage can before leaving the area or infested waters; and
4. Disinfect your boat, equipment and gear by either:
 - 4.1. Washing with ~212 F water (steam clean), or
 - 4.2. Drying thoroughly for five days after cleaning with soap and water and/or high pressure water, or
 - 4.3. Disinfecting with either 200 ppm (0.5 oz per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water flea. Therefore this disinfect should be used in conjunction with a hot water (>104° F) application.

Complete the inspection and removal procedure before equipment is brought to the project site and before the equipment leaves the project site.

stp-107-055 (20130615)

11. Environmental Protection, Eagles.

There has been an active and an inactive eagle nest observed in the vicinity of the proposed culvert pipe extension work at Station 118+27 RT (Station 13+17 on Temporary Bypass). Do not perform or locate any project-related activities including waste areas, borrow pits, or materials, equipment, or personnel staging areas within 330 feet of the nests at any time. Do not locate any waste areas, borrow pits, or materials, equipment, or personnel staging areas within 660 feet of the nests from mid-January through July 31st. Do not reduce established landscape (trees) buffers that screen project construction activities from the nests. Contact Phil Keppers, (715) 395-3027, for the locations of the nests, if needed, and keep these locations confidential.

12. Environmental Protection – Dewatering.

General

Add the following to standard spec 107.18:

If dewatering is required, treat the water to remove suspended sediments by filtration, settlement or other appropriate best management practice prior to discharge. Submit the proposed means and methods of dewatering for each required location for approval as part of the Erosion Control Implementation Plan (ECIP). Include details of how the intake will be managed to not cause an increase in the background level turbidity prior to treatment and any additional measures necessary to prevent sediments from reaching the project limits or wetlands and waterways.

Guidance on Dewatering can be found on the Wisconsin Department of Natural Resources (WDNR) website located in the Storm Water Construction Technical Standards, Dewatering Code #1061, "Dewatering". This document can be found at the WDNR website:

http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

Work includes furnishing all materials, excavation, maintenance, cleaning, disposal of surplus material and removal of the dewatering system and is incidental to contract work.

(NCR 107.13-04012016)

Contaminated Groundwater

The department and others have completed testing for groundwater contamination at locations within and adjacent to this project where excavation is required. Based on the depth to groundwater and planned excavation depths, dewatering of unregulated, low-level NNOC contaminated groundwater may be necessary during construction next to the site listed in Hazardous Materials Contamination and as shown on the plans.

By municipal ordinance, the cities of Ashland, Bayfield and Washburn, Wisconsin, prohibit the discharge of any storm water, surface water, groundwater, or wastes containing hazardous materials (i.e., gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid or gas) to public sewers and to their respective waste water treatment facilities. The Town of Barksdale neither owns nor operates a municipal waste water treatment plant.

The WDNR has calculated secondary values for the safe discharge of low-level NNOC contaminated groundwater back to Boyd Creek as follows:

- For 2-Amino-4,6-DNT: The *daily* maximum concentration shall be less than 35.4 µg/L; the *weekly* average concentration shall be less than 2.0 µg/L for wastewater discharges lasting 4 consecutive days or more.
- For 4-Amino-2,6-DNT: The *daily* maximum concentration shall be less than 400 µg/L; the *weekly* average concentration shall be less than 22.2 µg/L for wastewater discharges lasting 4 consecutive days or more.
- For 2,4,6-TNT: The *daily* maximum concentration shall be less than 168 µg/L; the *weekly* average concentration shall be less than 9.8 µg/L for wastewater discharges lasting 4 consecutive days or more.

The discharge of low-level NNOC contaminated groundwater back to Boyd Creek that does not exceed the calculated secondary values is allowed under the Dewatering Operations General Permit.

Implement means and methods as necessary to accomplish dewatering and meet requirements for management of low-level NNOC contaminated groundwater. Dewatering means and methods implemented by the contractor, including location and depth of dewatering operations, pumping rates, length of dewatering area, and dewatering methods, such as, wells, well points, and/or sump pumps, will likely affect quantity and quality of recovered water. Employ dewatering methods and techniques in a manner that does not cause the migration of contaminants into uncontaminated areas.

Water generated from dewatering activities within the contaminated groundwater area includes groundwater and water that may enter an excavation at ground surface, such as, rain water or storm water. Employ construction methods and techniques in a manner that will minimize the need for dewatering, and if dewatering is required, minimize the volume of water generated.

Complete backfill of the marsh excavation areas along the temporary bypass at Station 9+85 to Station 11+25 LT and RT and Station 12+25 to Station 13+40 LT and RT within 3 calendar days of starting marsh excavation at each location to minimize the volume of water generated by displacement or dewatering and to avoid potential exceedance of the weekly average discharge limits for NNOC contaminated groundwater stated above.

Water removed from excavations by dewatering activities within the contaminated groundwater area may be discharged within project limits, employing an appropriate best management practice prior to discharge in compliance with Environmental Protection – Dewatering, General.

If contaminated groundwater, strong chemical or petroleum odors, unusually discolored groundwater, or free-phase petroleum product, such as, gasoline floating on the water table, are encountered elsewhere within the project limits, then terminate dewatering activities in the area and notify the engineer.

Coordinate dewatering activities within the contaminated groundwater area under this contract with the department's engineer and environmental consultant. Do not treat, discharge or transport contaminated water off-site without prior approval from the engineer or environmental consultant.

Provide a schedule of operations in the contaminated groundwater area to the engineer and environmental consultant at the pre-construction conference.

Provide the engineer and environmental consultant with a dewatering plan at least 45 calendar days prior to the scheduled date of beginning dewatering activities in the contaminated groundwater area. Describe the proposed means and methods to accomplish dewatering and include scheduled start and end dates,

estimated pumping rates and times, anticipated daily volumes, containerization, treatment methods and/or disposal location, and any other information pertinent to contaminated groundwater management.

Provide the engineer and environmental consultant with documentation of contaminated groundwater management within 90 calendar days after completion of construction dewatering activities.

All costs associated with dewatering activities within the low-level contaminated groundwater area shall be considered incidental to construction.

13. Erosion Control.

Supplement standard spec 107.20 with the following:

Install silt fence prior to construction and install it at the toe of proposed or existing slopes when working adjacent to wetland areas and waterways.

Limit the removal of vegetative cover and exposure of bare ground to the minimum amounts necessary to complete construction. Restore disturbed soils as soon as conditions permit.

When slope, streambank or channel disturbance occurs, take immediate action in placement of any required topsoil, fertilizer, seed, mulch, erosion mat and riprap in order to minimize the period of exposure to possible erosion.

Do not stockpile materials in wetlands, waterways, or floodplains. Do not house any dewatering technique in a wetland. Locate temporary stock piles in upland locations protected with erosion control measures.

Place biodegradable non-netted erosion mat along streambanks (e.g. Class I Type A Urban, Class I Type B Urban, or Class II Type C) as shown in the plans or required by the engineer. Fine mesh erosion mat that is tied or bonded at the mesh intersection such that the openings in the mesh are fixed in size shall not be placed along stream banks.

14. Erosion Control Structures.

Within seven calendar days after beginning work on the B-4-114 bridge superstructure, place all permanent erosion control devices, including riprap, erosion mat, ditch checks, seed, fertilizer, mulch, soil stabilizer, or any other item required by the contract or deemed necessary by the engineer. These devices shall be in place in the area under the bridge and on both sides of the roadway, from the waterway to a point 100-feet behind the backwall of the abutment. Within said limits, place these devices to a height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan, or as the engineer directs. After removing the concrete slab of old Structure B-04-008 and the remnants of old box culvert C-04-0176, place turbidity barriers, silt screens, and other temporary erosion control measures as the plans show, and remove them after the permanent erosion control devices are in place unless directed otherwise by the engineer.

In the event that construction activity does not disturb the existing ground below the Q2 elevation, the above timing requirements for permanent erosion control shall be waived.

If fill slopes are constructed between Boyd Creek and the temporary bridge abutments, place riprap heavy on the temporary abutment slopes within three calendar days of the construction of each slope. Place topsoil and temporary erosion control devices on the temporary fills beyond the limits of the riprap heavy within the same time period. Place the riprap heavy to a minimum height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan. Place the riprap heavy to a higher elevation if needed for temporary abutment slope stability, or as the engineer directs.

15. Notice to Contractor – Low-Level Contaminated Soil within Construction Limits.

The department and others have completed testing for soil contamination at locations within or adjacent to this project where excavation or grading may be required. Testing indicated low-level NNOCs detected below the WAC Chapter NR 720 RCLs may be present in soil at the site listed below and as shown on the plans.

The following site is known to have hazardous materials contamination:

Site Name and Location	Description
<p>Former Barksdale Works 72315 STH 13 Town of Barksdale, Bayfield County</p> <p>WDNR BRRTS Nos. 02-000156 and 02-04-550402</p> <p>(Open ERP)</p>	<p>Low-Level NNOC Contaminated Soil within Construction Limits as follows:</p> <ul style="list-style-type: none"> • STH 13 Station 112+28 to Station 112+73, from reference line to 50 feet LT of reference line, at an approximate depth of 2 to 5 feet below existing grade. • STH 13 Station 112+86 to Station 113+58, from reference line to 50 feet LT of reference line, at an approximate depth of 6 to 20 feet below existing grade. • STH 13 Station 113+29 to Station 113+82, from reference line to 50 feet RT of reference line, at an approximate depth of 6 to 20 feet below existing grade. • STH 13 Station 114+23 to Station 116+55, from approximately 35 feet LT of reference line to right-of-way and beyond (wetland soils), from ground surface to an approximate depth of 2 feet below existing grade. • STH 13 Station 114+83 to Station 116+32, from approximately 30 feet RT of reference line to right-of-way (wetland soils), from ground surface to an approximate depth of 2 feet below existing grade. • Temporary Bypass Station 9+85 to Station 11+25, between slope intercepts RT and LT of reference line (wetland soils), from ground surface to an approximate depth of 2 feet below existing grade. • Temporary Bypass Station 12+25 to Station 13+40, between slope intercepts RT and LT of reference line (wetland soils), from ground surface to an approximate depth of 2 feet below existing grade. <p>Low-level NNOCs, including 2-Amino-4,6-DNT (410 micrograms per kilogram ($\mu\text{g}/\text{kg}$)), 4-Amino-2,6-DNT (410 $\mu\text{g}/\text{kg}$), 2,4,6-TNT (480 $\mu\text{g}/\text{kg}$), nitroglycerin (31 $\mu\text{g}/\text{kg}$), and 2-nitrotoluene (78 $\mu\text{g}/\text{kg}$) were detected in wetland and subsurface soils below Wisconsin Administrative Code (WAC) Chapter NR 720 (NR 720) non-industrial and industrial Not-to-Exceed Direct Contact (D-C) Residual Contaminant Levels (RCLs). 2,4-DNT (55 $\mu\text{g}/\text{kg}$), exceeded the NR 720 Soil-to-Groundwater Pathway RCL (RCL-gw) in wetland soil.</p> <p>Low-Level NNOC Contaminated Groundwater within Construction Limits as follows:</p> <ul style="list-style-type: none"> • STH 13 Station 113+29 to Station 113+82, from reference line to 50 feet RT of reference line, at an approximate depth of 12.5 feet below existing grade. <p>Low-level NNOCs, including 2-Amino-4,6-DNT (17 micrograms per liter ($\mu\text{g}/\text{L}$)), 4-Amino-2,6-DNT (5.7 $\mu\text{g}/\text{L}$), and 2,4,6-TNT (27 $\mu\text{g}/\text{L}$) were detected in groundwater. There are currently no WAC Chapter NR 140 groundwater quality standards established for the detected compounds.</p>

For further information regarding approval of the soil and groundwater management methods or to obtain a copy of the hazardous materials investigation report for this project, contact one of the following persons:

Aaron Gustafson
Environmental Coordinator
Wisconsin Department of Transportation
1701 North 4th Street
Superior, WI 54880
Telephone: (715) 392-7972
Email: aaron.gustafson@dot.wi.gov.

Kyle Wagoner
AECOM Technical Services, Inc.
200 Indiana Avenue
Stevens Point, WI 54481
Telephone: (715) 342-3038
Email: kyle.wagoner@aecom.com

16. Health and Safety Requirements for Workers Remediating Contamination.

Add the following to standard spec 107.1(2):

Soil and groundwater contaminated with low-level nitroaromatic and nitroamine organic compounds (NNOCs), including dinitrotoluene (DNT), trinitrotoluene (TNT), nitroglycerin, and 2-nitrotoluene may be encountered during excavation activities. Prepare a site specific Health and Safety Plan complying with the Occupational Safety and Health Administration (OSHA) standard for Hazardous Waste Operation and Emergency Response (HAZWOPER), 29 CFR 1910.120.

All site workers taking part in remediation activities or who will have the reasonable probability of exposure to safety or health hazards associated with the hazardous material shall have completed Health and Safety training that meets OSHA requirements. Prior to the start of remediation work, submit to the engineer a site specific Health and Safety Plan, and written verification that workers will have completed up-to-date OSHA training.

Develop, delineate, and enforce the health and safety exclusion zones for each contaminated site location pursuant to 29 CFR 1910.120.

17. Notice to Contractor, Notification of Demolition and/or Renovation No Asbestos Found.

John Roelke, License Number All-119523, inspected Structure B-04-0008 and remnants of C-176 for asbestos on June 27, 2018. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from: Phil Keppers, (715) 395-3027.

In accordance with NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 4/11), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days before beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form to Phil Keppers, (715) 395-3027 and DOT BTS-ESS attn: Hazardous Materials Specialist PO Box 7965, Madison, WI. 53707-7965. In addition, comply with all local or municipal asbestos requirements.

Use the following information to complete WisDNR form 4500-113:

- Site Name: Structure B-04-0008, STH 013 over Boyd Creek
- Site Address: 2.1 miles North of Junction with USH 2 to West, Town of Barksdale
- Ownership Information: WisDOT Transportation NW Region, 1701 N. 4th St., Superior, WI 54880
- Contact: Phil Keppers
- Phone: (715) 395-3027
- Age: 66 years old. This structure was constructed in 1953.
- Area: 1066 SF of deck

30. Removing Signs Type II, Item 638.2602.

This work shall be according to the pertinent requirements of standard spec 638 and as provided here.

Type II signs are the department's property. All DOT signs removed, and not identified for reuse, shall be separated, plywood from aluminum signs, and the aluminum signs shall be palletized for shipment and handling with a forklift. Contact DTSD Sign Shop Coordinator Steve Allard at (715) 577-1259 at least 3 business days prior to delivery to coordinate shipment to be delivered to the DTSD Sign Shop Distribution Center at one of the following locations:

Washburn County Highway Shop, 1600 CTH H, Spooner, WI 54801

31. Geotextile, Type C, Item 645.0105.

Perform this work according to the pertinent requirements of standard spec 645 and as hereinafter provided.

Replace standard spec 645.3.1.8 (1) with the following:

Complete clearing operations before placing the fabric. Within the area being covered by fabric, cut stumps and sharp objects level with the ground surface. Do not remove sod, grass, and roots that extend beneath the ground surface. Carefully place the geotextile on the ground using hand methods to avoid disturbing the existing root mat and vegetation. Roll the fabric out as smoothly as possible and pull taut manually to remove wrinkles. The engineer may require the use of weights or pins to prevent the wind from lifting the fabric. After placement, do not expose the fabric longer than 48 hours before covering. If visible defects exist, replace the defective section of fabric with a new defect-free section of fabric.

Replace standard spec 645.3.1.8 (2) and (3) with the following:

Join separate pieces of fabric by overlapping or sewing. Overlap the fabric in joints at least 18 inches.

Add the following as standard spec 645.3.1.8 (5):

Remove the fabric in a way that minimizes the impact on the disturbed wetland areas when the temporary bypass is removed.

Add the following as standard spec 645.5 (4):

Payment for removal and disposal of Geotextile Type C from along the temporary bypass when it is removed is to be included as a part of bid item 645.0105.

32. Locating No-Passing Zones, Item 648.0100.

For this project, the spotting sight distance in areas with a 55 mph posted speed limit is 0.21 miles (1108 feet).

stp-648-005 (20060512)

33. Excavation, Loading and Hauling of Low-Level Contaminated Soil, Item SPV. 0035.01.

A Description

A.1 General

Low-level NNOC contaminated soil excavated from the locations and depths identified in the Notice to Contractor – Low-Level Contaminated Soil within Construction Limits special provision article and as shown on the plans shall be transferred to the following WDNR-approved management site:

Former Barksdale Works
72315 STH 13
Town of Barksdale, Bayfield County

The one-way distance from the project to the WDNR-approved management site is estimated to be less than 3 miles.

The in-vehicle quantity of low-level NNOC contaminated soil designated for transfer to the WDNR-approved management site is estimated to be 1,425 cubic yards.

The responsible party for the Former Barksdale Works, the Chemours Company, will designate a temporary stockpile location and is responsible for low-level NNOC contaminated soil transferred from the project to the WDNR-approved management site.

A.2 Low-Level Contaminated Soil Locations

The department and others have completed testing for soil contamination at locations within or adjacent to this project where excavation or grading may be required. Testing indicated low-level NNOCs detected below the WAC Chapter NR 720 RCLs is present in soil at the site listed in the Notice to Contractor – Low-Level Contaminated Soil within Construction Limits special provision article and as shown on the plans.

If contaminated soil, groundwater, or underground storage tanks are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer.

A.3 Coordination

Coordinate work under this contract with the department's environmental consultant.

The role of the environmental consultant will be limited to:

1. Identifying the location and limits of contaminated soil and groundwater that may be encountered based on soil and water sample analytical results from previous investigations, visual observation, and field screening of soil that is excavated.
2. Periodically evaluating soil excavated from the low-level contaminated areas to determine if the soil is appropriate for transfer to the WDNR-approved management site.
3. Documenting that activity associated with management of contaminated soil and groundwater are in conformance with the contaminated soil and groundwater management methods for this project as specified herein.

At the pre-construction conference, provide a schedule for all excavation activities in the low-level contaminated soil areas to the engineer and environmental consultant.

Notify the environmental consultant at least 14 calendar days prior to commencement of excavation activities in the low-level contaminated soil areas.

Coordinate to ensure that the environmental consultant is present during excavation activities in the low-level contaminated soil management areas. Excavation work in the low-level contaminated soil areas shall proceed on a continuous basis until excavation work is completed.

A.4 Material Handling Plan Approval

The methods for managing low-level NNOC contaminated soil during this project were developed in cooperation with the WDNR. The methods outlined herein have been approved by the WDNR's Northern Region office at 1701 North 4th Street, Superior, Wisconsin 54880.

B (Vacant)

C Construction

Control operations in the low-level contaminated soil areas to minimize the quantity of contaminated soil excavated.

The environmental consultant will periodically evaluate soil excavated from the low-level contaminated soil areas to determine if the soil is appropriate for transfer to the WDNR-approved management site. Excavated soil will be evaluated by the environmental consultant based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation. The sampling frequency shall be a maximum of one sample for every 15 cubic yards (approximately one truck load) excavated in the contaminated areas.

Directly load and haul low-level NNOC contaminated soil to the WDNR-approved management site. If not hauled to the designated management site during the same day on which it was excavated, temporarily stockpile the soil on an impervious surface within the project limits by covering the material with impervious plastic sheeting and anchoring the plastic sheeting in place to prevent the soil from being exposed until such time as the soil is hauled to the management site. Use loading and hauling practices that are

appropriate to prevent any spills or releases of soils or residues. Sufficiently dewater soils designated for off-site management prior to transport so as not to contain free liquids.

Do not transport contaminated soil off-site without prior approval from the engineer or environmental consultant.

Perform this work according to standard spec 205 and with pertinent parts of Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

D Measurement

The department will measure Excavation, Loading and Hauling of Low-Level Contaminated Soil by the cubic yard in vehicle of contaminated soil, acceptably transferred to the WDNR-approved management site.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.01	Excavation, Loading and Hauling of Low-Level Contaminated Soil	CY

Payment is full compensation for excavating, loading, hauling, and transferring the contaminated soil to the WDNR-approved management site; temporary stockpiling of contaminated soil within project limits; covering, anchoring, and maintenance of the temporary stockpile; obtaining solid waste collection and transportation service operating licenses; dewatering of soils prior to transport; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

34. Salvage and Reinstall Sign, Item SPV. 0060.01.

A Description

This special provision describes salvaging and installing signs at the locations shown on the plans and conforming to standard spec 638 as modified hereinafter.

B Materials

Furnish materials conforming to standard spec 638 if replacement is required.

C Construction

Remove existing signs and supports from the locations indicated, store them for the duration of the project, and reinstall them at the existing locations once reinstallation will no longer interfere with completion of project work. Any damaged signs or supports shall be replaced at the contractor's expense.

D Measurement

The department will measure Salvage and Reinstall Sign as each individual salvaged and reinstalled sign with support, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Salvage and Reinstall Sign	EACH

Payment is full compensation for removing, storing, maintaining, and reinstalling sign and support.

35. Culvert Pipe Salvaged And Reinstalled (24-Inch), Item SPV.0090.01.

A Description

This special provision describes excavating and removing existing culvert pipe and transporting, cleaning, storing and reinstalling at existing locations the plans show or the engineer directs in accordance to the pertinent requirements of standard spec 524 as modified hereinafter.