

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

March 23, 2017

Mr. Steve Thompson National Park Service Outer Banks Group 1401 National Park Drive Manteo, NC 27954

Subject: Special Use Permit for Geotechnical Investigation

NC-12 - Rodanthe Breach Long-Term Improvements, Bonner Bridge Replacement Project Phase IIb in Dare County, North Carolina; TIP Project B-2500B, Federal Aid

Project No. BRNHF-0012(56); WBS Element 32635.3.FR7

The North Carolina Department of Transportation (NCDOT) Geotechnical Engineering Unit is proposing additional subsurface investigations for the foundation design for the NC-12 Rodanthe Bridge in the Pamlico Sound in Dare County, North Carolina. A completed Special Use Permit Application and appropriate site drawings are attached for your review. As portions of the Cape Hatteras National Seashore will be utilized during this work, approval is required.

A private engineering firm will conduct the investigation. One boring is anticipated in the shallow water of the Pamlico Sound (within the National Park Service Boundary; Sheets 12 and 13). This boring is under the proposed new bridge footprint. It will be accessed from Pea Island National Wildlife Refuge generally under the proposed bridge footprint and was chosen as it minimizes impacts to vegetation and wetlands.

All equipment required to conduct the boring will be delivered to the site via a commercial haul truck. Equipment will be left staged along the shoulder of NC 12 within the existing NCDOT easement, but well off the roadway.

The boring will be performed by a tracked ATV "swamp buggy" type carrier and drill rig designed specifically to access and drill in marshy, near shore, shallow water marine environments. Along with the "swamp buggy", a smaller ATV tracked drill crew support vehicle will access the boring location and provide safe transport of men, supplies, samples, etc. to and from the drill rig and staging area while the geotechnical boring is in progress. The boring will turn or drive a 4-inch diameter steel casing into the sound bottom, creating minimal disturbance. Other drilling tools will be used to sample the sediment and advance the hold within the steel casing. The steel casing will be removed upon completing the boring. All drilling fluids/mud will be contained in the subsurface and through the steel casing to the surface and in a steel "mud tub" on the drill rig. It will be recirculated as appropriate during drilling. Spoils from the drilling will be contained and transferred into the "mud tub".

Spoil from the drilling will be placed back into the boring if practicable, or disposed at an upland location, the specifics of which will be designated by the US Fish and Wildlife Service, if desired.

Once the "swamp buggy" is positioned at the proposed boring location(s), drilling will commence. The borings will be a Standard Penetration Test (SPT) with split barrel soil samples collected at approximately 5 foot intervals until the termination depth of 150 feet below ground surface. A 4-inch steel casing will be installed at the surface and advanced as needed to maintain bore-hole stability during drilling and will be removed upon boring termination. This methodology creates minimal disturbance beyond the bore hole. It is expected that drilling each boring will take up to a maximum of 7 days to complete.

Regulatory Approvals:

NCDOT applied for Nationwide Permit No. 6 from the U.S. Army Corps of Engineers to authorize these activities on March 10, 2017. In addition, NCDOT has obtained a Special Use Permit from the United States Fish and Wildlife Service to authorize these activities within the Pea Island National Wildlife Refuge. We are hereby requesting a Special Use Permit from the National Park Service for this activity. If you have any questions or would like additional information, please contact Michael Turchy at maturchy@ncdot.gov or (919) 707-6157. A copy of this application will also be posted at https://xfer.services.ncdot.gov/pdea/PermApps/.

Sincerely,

Philip S. Harris, III, P.E., Manager

Natural Environment Section

ce: John Pilipchuk, State Engineering Geologist, P.E., Geotechnical Unit David Herring, Design Build Unit

Clay Willis, Division Environmental Officer

Revised NPS Form 10-930 OMB No. 1024-0026 10-2010 Expires 6/30/2013

National Park Service Outer Banks Group 1401 National Park Drive Manteo, NC 27954 (252) 473-2111



Revised Application for Special Use Permit

Please supply the information requested below. Attach additional sheets, if necessary, to provide required information. You will be notified of the disposition of the application and the necessary steps to secure your final permit. For special events, a non-refundable processing fee should be included and your permit may require the payment of cost recovery charges and proof of liability insurance naming the United States of America as also insured. Pursuant to the 2010 NPS Interim Regulations, parks have up to 10 days to process a fully executed application that seeks to engage in a demonstration or the sale or distribution of printed matter.

Applicant Name: Michael Turchy		Organization Name: NC Dept. of Transportation		
Social Security #: not applicable		Tax ID # not applicable		
Street/Address: 1020 Birch Ridge Drive		Street/Address: 1020 Birch Ridge Drive		
City/State/Zip Code: Raleigh, NC 27610		City/State/Zip Code: Raleigh, NC 27610		
Telephone #: 919-707-6157		Telephone #: 919-707-6157		
Cell phone #:		Cell phone #:		
Fax #: 919-707-6000		Fax#: 919-707-6000		
E-mail: maturchy@ncdot.gov		E-mail: maturchy@ncdot.gov		
Responsible person on site of Drive, Suite 100, Durham, No.		d cell# if not Applicant): Shane Jo	ohnson, 4021 Stirrup Creek	
Description of Proposed Act	ivity (attach diagram, attach ad	ditional pages if necessary):		
Please see attached cover le	tter			
Requested Location: P	lease reference attached map o	of geotechnical investigation area	1	
Dates: Event set up will begin:	Event will begin:	Event will end:	Removal will be done:	
(date and time)	(date and time)	(date and time)	(date and time)	
4/10/17 (Approximate)	4/12/17(Approximate)	4/20/17(Approximate)	4/20/17(Approximate)	
Maximum Number of Participants 4 companies, 15 people (Please provide best estimated)				
Maximum Number of Vehicl	es 7 vehicles	(attach	parking plan if more than 5 vehicle	

Support Equipment (list all equipment; attach additional pages if necessary)					
Rubber tired drill rig, swamp buggy, rubber tired ATV, steel casings, lowboy with trailer, support truck with trailer,					
various pickup trucks					
List support personnel (contractors, etc. including addresses and telephones attach additional pages if necessary. AMEC/Foster Wheeler, 4021 Stirrup Creek Drive, Suite 100, Durham, NC 27703. Contact Shane Johnston (919) 414-3899 NCDOT, 1020 Birch Ridge Rd, Raleigh, NC 27610 Contact: Michael Turchy, (919) 707-6157 RK&K 900 Ridgefield Dr, Suite 350, Raleigh, NC 27609. Contact Matt Cook (919) 878-9560 Three Oaks Engineering, 324 Blackwell Street, Suite 1200, Durham, NC 27701 Contact: Michael Wood, (919) 732-1300					
Is this an exercise of First Amendment Rights? Are you familiar with/ have you visited the requested area? Have your obtained a permit from the National Park Service in the past?	□Y ⊠Y ⊠Y	⊠n □n □n			
(If yes, provide a list of permit dates and locations on a separate page.) Do you plan to advertise or issue a press release before the event? Will you distribute printed material?	□Y □Y	⊠n ⊠n			
Is there any reason to believe there will be attempts to disrupt, protest or prevent your event? (If yes, please explain on a separate page.)	□Y	⊠N			
Do you intend to solicit donations, engage in fundraising, or offer items for sale? (If yes, please explain on a separate page and provide park with an example of each such item with this application.)	□Y	⊠N			
The applicant by his or her signature certifies that all the information given is complete an information or false statements have been given. Signature Date 03 23 7017	_				
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of charges which must be paid before the permit is issued. You will be advised as to those requirements if you application is approved. Assessed charges must be paid in advance of receiving the permit in the form of a check or money order payable to National Park Service. Payments are non-refundable.

This completed application should be mailed to the Park address found at the top of this application.

Note that this is an application only, and does not serve as permission to conduct any use of the park. If your request is approved, a permit containing applicable terms and conditions will be sent to the person designated on the application. The permit must be signed by the responsible person and returned to the park prior to the event.

NOTICES

Privacy Act Statement: The Privacy Act of 1974 (5 U.S.C. 552a) provides that you be furnished with the following information in connection with information required by this application. This information is being collected to allow the park manager to make a value judgment on whether or not to allow the requested use. Applicants are required to provide their social security or taxpayer identification number or activities subject to collection of fees by the National Park Service (31 U.S.C. 7701) Information from the application may be transferred to appropriate Federal, State, local agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

Paperwork Reduction Act Statement): This information is being collected subject to the Paperwork Reduction Act (44 U.S.C. 3501) to allow the park manager to make a value judgment on whether or not to allow the requested use. All applicable parts of the form must be completed. A Federal agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Estimated Burden Statement: Public reporting burden for this form is estimated to average 30 minutes per response including the time it takes to read, gather and maintain data, review instructions and complete the form. Direct comments regarding this burden estimate or any aspects of this form to the National Park Service, Special Park Uses Program Manager, 1849 C Street NW (2460), Washington, D.C. 20240

SHEET TOTAL SHEETS See Sheet 1-B For Conventional Symbols STATE OF NORTH CAROLINA N.C. B-2500B 1 DIVISION OF HIGHWAYS DESCRIPTION 32635.3.FR7 BRNHF-0012(56) END PROJECT 500B DARE COUNTY LOCATION: NC 12 - RODANTHE BREACH LONG TERM IMPROVEMENTS (PHASE IIB) B TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING & STRUCTURES Geotechnical Boring Work Areas OIE North End Work Areas VICINITY MAP (NTS) Bridge Work Area BEGIN TIP PROJECT B-2500B South End Work Area -L-STA.9+65.00111 6 L-STA. 158 + 06.33 BK =-L- STA. 2982 + 44.62 AH 15 PAMLICO SOUND 73 TO NAGS HEAD MYRNA PETERS RD BEGIN BRIDGE -DET-RODANTHE LLAGE LIMITS PEA ISLAND NATIONAL WILDLIFE REFUGE -L-STA. 21 + 00.00CROSS OF DARE COUNTY SEA HAVEN DR HONOR WAY 19∫≂ END BRIDGE -L- STA. 150 + 86.79 NC 12 TO RODANTHE 16 LAURA RD-DARE COUNTY SEA OATS DR SR 1498 END CONST AMERCA DR CORBINA DR_ END TIP PROJECT B-2500B -DR1-STA.12+75.00-L-STA. 2994 + 13.29SEAGULL ST EAST POINT DR_ ATLANTIC OCEAN DARE COUNTY SR 1516 INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION END CONSTRUCTION -YI-STA.43+88.68DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II. PLANS PREPARED BY: HYDRAULICS DESIGN DATA GRAPHIC SCALES PROJECT LENGTH RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE, SUITE 350 RALEIGH, NORTH CAROLINA 27609 NC LICENSE NO. F-0112 50 25 0 LENGTH ROADWAY TIP PROJECT B-2500B.......0.572 mi ADT 2017 = 9,800LENGTH STRUCTURE TIP PROJECT B-2500B.......2.460 mi FLATIRON FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION TOTAL LENGTH TIP PROJECT B-2500B.... ADT 2037 = 14,200012 STANDARD SPECIFICATIONS SIGNATURE: ROADWAY V = 40/60 MPHNCDOT CONTACT B. Keith Skinner, P.E. DESIGN **ENGINEER** PROFILE (HORIZONTAL) FUNC. CLASSIFICATION = **RURAL COLLECTOR** K. Zak Hamidi, P.E. LETTING DATE: Brandon J. McInnis, P.E. PROFILE (VERTICAL) PROJECT ENGINEER - DESIGN-BUILD GROUP PROJECT DESIGN ENGINEER JANUARY 25, 2017 P.E. SIGNATURE



