



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

June 2, 2015

Addendum No. 1

RE: Contract ID C203591

WBS # 34442.3.S4

State Funded

Jones, Onslow Counties (R-2514B&C) (Proposal #1)

US-17 South of Belgrade To North of Maysville to South of NC-58
Near Pollocksville

June 16, 2015 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the Structure plans:

Sheet No.	Revisions
S5-74	Revised the work line stations and descriptions in the Plan views. Revised the station over the Title Block
S5-75	Revised the station over the Title Block

Please void the above listed sheets in your plans and staple the revised sheets thereto.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 06-02-15"
Table of Contents	Revised first page of Table of Contents to add "Notes To Contractor" on Page No. G-42
G-42	Added the project special provision entitled "Notes To Contractor" (New Page)
P-1	Revised to include "USACE 404" in list of Permits
P-198 thru P-208	New pages to include USACE "404" permit

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-707-6900
FAX: 919-250-4119

WEBSITE: www.ncdot.gov

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

Please void the Proposal Cover, the first page of the Table of Contents and Page No. P-1 in your proposal and replace with the attached revised pages. Please add New Page No. G-42 after existing Page No. G-41 in your proposal. Please add new Pages No. P-198 thru P-208 after existing Page No. P-197 in your proposal.

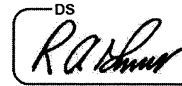
On the item sheets the following pay item quantity has been revised:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
246-8147000000-E-420	Reinforced Concrete Deck Slab	131,954 SF	132,134 SF

The Contractor's bid must be based on this revised pay item quantity. The contract will be prepared accordingly.

The Expedite File has been updated to reflect this revision. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

Sincerely,



R. A. Garris, PE
Contract Officer

RAG/jag
Attachments

cc: Mr. Ron Hancock, PE	Mr. Ray Arnold, PE
Mr. John Rouse, PE	Ms. Terry Canales, PE
Ms. D. M. Barbour, PE	Mr. Ronnie Higgins
Mr. Rodger Rochelle, PE	Mr. Mike Gwyn
Mr. R.E. Davenport, PE	Ms. Marsha Sample
Mr. Tom Koch, PE	Ms. Jaci Kincaid
Ms. Lori Strickland	Ms. Penny Higgins
Project File (2)	

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 06-02-15

DATE AND TIME OF BID OPENING: **JUNE 16, 2015 AT 2:00 PM**

CONTRACT ID C203591
WBS 34442.3.S4

FEDERAL-AID NO. STATE FUNDED
COUNTY JONES, ONSLOW
T.I.P. NO. R-2514B, R-2514C
MILES 9.648
ROUTE NO. US 17
LOCATION US-17 SOUTH OF BELGRADE TO NORTH OF MAYSVILLE TO SOUTH OF
 NC-58 NEAR POLLOCKSVILLE.
TYPE OF WORK GRADING, DRAINAGE, PAVING, AND STRUCTURES..

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

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NOTES TO CONTRACTOR:

For conducting work on or adjacent to Croatan National Forest, which extends for roughly two miles on the east side of US 17 in Section C of R-2514.

1. Fueling or oiling of mechanical equipment shall occur away from aquatic habitats.
2. To prevent the spread of non-native invasive species (NNIS) on National Forest System lands, contractors shall pressure wash all off-road equipment, including cranes, graders, pans, excavators, and loaders, prior to being brought to the Croatan National Forest construction area (Section C).

To control the spread of non-native invasive plants on National Forest System land, NCDOT will locate and flag areas of non-native invasive species (NNIS) on Croatan property. If any of these areas are within areas of proposed fill, those areas shall be cleared and grubbed, and the material disposed of outside the limits of the Croatan National Forest by the Contractor. If NNIS are located in areas of proposed cuts, then the material and actual thickness of root mat or other defined amount will be disposed of outside the limits of the Croatan National Forest by the Contractor.

PROJECT SPECIAL PROVISION

(10-18-95) (Rev. 10-15-13)

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PERMITS

The Contractor's attention is directed to the following permits, which have been issued to the Department of Transportation by the authority granting the permit.

<u>PERMIT</u>	<u>AUTHORITY GRANTING THE PERMIT</u>
Dredge and Fill and/or Work in Navigable Waters (404)	U. S. Army Corps of Engineers
Water Quality (401)	Division of Environmental Management, DENR State of North Carolina
Buffer Certification	Division of Environmental Management, DENR State of North Carolina
State Dredge and Fill and/or CAMA	Division of Coastal Management, DENR State of North Carolina
Navigation	U. S. Coast Guard
CCPCUA	Division of Water Resources, DENR State of North Carolina

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by * are the responsibility of the Department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

The Contractor's attention is also directed to Articles 107-10 and 107-13 of the *2012 Standard Specifications* and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the Engineer to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.

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IN REPLY REFER TO

**DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS**

Washington Regulatory Field Office
2407 W 5th Street
Washington, North Carolina 27889

May 18, 2015

Regulatory Division

Action ID. SAW- 2008-00528

Mr. Richard W. Hancock, P.E., Manager
Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Hancock:

In accordance with your written request of February 11, 2015 and the ensuing administrative record, enclosed are two copies of a permit to impact approximately 46.86 acres of Department of the Army (DA) jurisdictional wetlands and 4281 linear feet of surface waters associated with 16 miles of highway improvements near or within the US Highway 17 corridor beginning at the intersection of SR 1330 (Deppe Loop Road) and SR 1439 (Springhill Road) in Onslow County near Belgrade and ending at the southern terminus of the New Bern Bypass, near the Jones/Craven County line, south of New Bern, North Carolina.

You should acknowledge that you accept the terms and conditions of the enclosed permit by signing and dating each copy in the spaces provided ("Permittee" on page 3). Your signature, as permittee, indicates that, as consideration for the issuance of this permit, you voluntarily accept and agree to comply with all of the terms and conditions of this permit. All pages of both copies of the signed permit with drawings should then be returned to this office for final authorization. A self-addressed envelope is enclosed for your convenience.

This correspondence contains a proffered permit for the above described site. If you object to this decision, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this decision you must submit a completed RFA form to the following address:

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Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by July 18, 2015.

****It is not necessary to submit an RFA form to the Division Office if you do not object to the decision contained in this correspondence.****

After the permit is authorized in this office, the original copy will be returned to you; the duplicate copy will be permanently retained in this office. If you have questions, please contact Tom Steffens at the Washington Regulatory Field Office, telephone 910-251-4615.

Thank you in advance for completing our Customer Survey Form. This can be accomplished by visiting our web site at <http://per2.nwp.usace.army.mil/survey.html> and completing the survey on-line. We value your comments and appreciate your taking the time to complete a survey each time you interact with our office. If you have any questions, please call Tom Steffens at telephone 910-251-4615.

Sincerely



for

William J. Biddlecome
Chief, Washington Regulatory Field Office

Enclosures

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DEPARTMENT OF THE ARMY PERMIT

Permittee Mr. Richard W. Hancock, P.E., Manager
Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Permit No. **SAW-2008-0528**

Issuing Office **CESAW-RG-Washington**

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: The applicant proposes to impact approximately 46.86 acres of Department of the Army (DA) jurisdictional wetlands and 4281 linear feet of surface waters associated with 16 miles of highway improvements near or within the US Highway 17 corridor.

Project Location: The project site location is located near or within the US 17 corridor beginning at the intersection of SR 1330 (Deppe Loop Road) and SR 1439 (Springhill Road) in Onslow County near Belgrade and ending at the southern terminus of the New Bern Bypass, near the Jones/Craven County line, south of New Bern, North Carolina.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **December 31, 2021**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

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4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit,

Special Conditions:

SEE ATTACHED SPECIAL CONDITIONS

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.


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- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.


Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit, Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

for  5-19-2015
 Mr. Richard W. Hancock, P.E., Manager PDEA-NCDOT (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

for  21 May 2015
 Kevin P. Landers Sr., Colonel, US Army, District Commander (DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

 (TRANSFeree) (DATE)

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SPECIAL CONDITIONS

SAW-2008-00528

NCDOT TIP#: R-2514-B C D Improvements to the US Highway 17 corridor beginning at the intersection of SR 1330 (Deppe Loop Road) and SR 1439 (Springhill Road) in Onslow County near Belgrade and ending at the southern terminus of the New Bern Bypass, near the Jones/Craven County line, south of New Bern, North Carolina

WORK LIMITS

1. CONSTRUCTION PLANS: All work authorized by this permit must be performed in strict compliance with the attached plans dated February 11, 2015 which are a part of this permit. Any modification to these plans must be approved by the US Army Corps of Engineers (USACE) prior to implementation.

2. UNAUTHORIZED DREDGE OR FILL: Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area. This prohibition applies to all borrow and fill activities connected with this project.

3. MAINTAIN CIRCULATION AND FLOW OF WATERS: Except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within waters or wetlands or to reduce the reach of waters or wetlands.

4. DEVIATION FROM PERMITTED PLANS: Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, or shall any activities take place that cause the degradation of waters or wetlands. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project. In addition, except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.

5. BORROW AND WASTE: To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent waters and wetlands, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material or to dispose of dredged, fill or waste material. The permittee shall

provide the Corps of Engineers with appropriate maps indicating the locations of proposed borrow or waste sites as soon as such information is available. The permittee will coordinate with the Corps of Engineers before approving any borrow or waste sites that are within 400 feet of any stream or wetland. All jurisdictional wetland delineations on borrow and waste areas shall be verified by the Corps of Engineers and shown on the approved reclamation plans. The permittee shall ensure that all such areas comply with Special Condition 4 of this permit and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This documentation will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with Special Condition 4. All information will be available to the Corps of Engineers upon request. The permittee shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

6. PRECONSTRUCTION MEETING: The permittee shall schedule and attend a preconstruction meeting between its representatives, the contractors representatives, and the Corps of Engineers, Washington Regulatory Field Office, NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all the terms and conditions contained with this Department of Army Permit. The permittee shall provide the USACE, Washington Regulatory Field Office, NCDOT Project Manager, with a copy of the final permit plans at least two weeks prior to the preconstruction meeting along with a description of any changes that have been made to the project's design, construction methodology or construction timeframe. The permittee shall schedule the preconstruction meeting for a time frame when the Corps and NCDWR Project Managers can attend. The permittee shall provide the Corps and NCDWR Project Managers a minimum of thirty (30) days in advance of the scheduled meeting in order to provide those individuals with ample opportunity to schedules and participate in the required meeting.

RELATED LAWS

7. SEDIMENTATION/EROSION CONTROL PLAN:

- a. During the clearing phase of the project, heavy equipment must not be operated in surface waters or stream channels. Temporary stream crossings will be used to access the opposite sides of stream channels. All temporary diversion channels and stream crossings will be constructed of non-erodible materials. Grubbing of riparian vegetation will not occur until immediately before construction begins on a given segment of stream channel.
- b. No fill or excavation impacts for the purposes of sedimentation and erosion control shall occur within jurisdictional waters, including wetlands, unless the impacts are included on the plan drawings and specifically authorized by this permit.
- c. The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades on those areas, prior to project completion.
- d. The permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard. Erosion and sediment control practices must be in full compliance with all

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specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standards. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4). Adequate sedimentation and erosion control measures must be implemented prior to any ground disturbing activities to minimize impacts to downstream aquatic resources. These measures must be inspected and maintained regularly, especially following rainfall events. All fill material must be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

8. WATER CONTAMINATION: All mechanized equipment will be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. In the event of a spill of petroleum products or any other hazardous waste, the permittee shall immediately report it to the N.C. Division of Water Resources at (919) 707-8787 or (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

PROJECT MAINTENANCE

9. NOTIFICATION OF CONSTRUCTION COMMENCEMENT AND COMPLETION:

The permittee shall advise the Corps in writing prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.

a. Prior to construction within any jurisdictional areas, the permittee must correctly install silt fencing (with or without safety fencing) parallel with the construction corridor, on both sides of the jurisdictional crossing. This barrier is to serve both as an erosion control measure and a visual identifier of the limits of construction within any jurisdictional area. The permittee must maintain the fencing, at minimum, until the wetlands have re-vegetated and stabilized.

10. CLEAN FILL: Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used. Soils used for fill shall not be contaminated with any toxic substance in concentrations governed by Section 307 of the Clean Water Act.

11. PERMIT DISTRIBUTION: The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit. A copy of this permit, including all conditions, shall be available at the project site during construction and maintenance of this project.

12. SILT-FENCING: The permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and

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wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

13. PERMIT REVOCATION: The permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the water or wetland to its pre-project condition.

14. EROSION CONTROL MEASURES IN WETLANDS: The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.

15. TEMPORARY DISCHARGES: Temporary discharge of excavated or fill material into wetlands and waters of the United States will be for the absolute minimum period of time necessary to accomplish the work. All authorized temporary wetland, stream, and tributary impacts will be returned to pre-disturbance grade and contour, and re-vegetated.

ENFORCEMENT

16. REPORTING ADDRESS: All reports, documentation and correspondence required by the conditions of this permit shall be submitted to the following address: U.S. Army Corps of Engineers, Regulatory Division, Washington Regulatory Field Office, c/o Mr. Thomas Steffens 2407 West 5th Street, Washington, North Carolina 27889, and by telephone at: 910-251-4615. The Permittee shall reference the following permit number, SAW-2008-00528 on all submittals.

17. REPORTING VIOLATIONS OF THE CLEAN WATER ACT AND RIVERS AND HARBORS ACT: Violation of these conditions or violation of Section 404 of the Clean Water Act must be reported in writing to the Wilmington District U.S. Army Corps of Engineers within 24 hours of the discovery of the violation.

18. COMPLIANCE INSPECTION: A representative of the Corps of Engineers will periodically and randomly inspect the work for compliance with these conditions. Deviations from these procedures may result in an administrative financial penalty and/or directive to cease work until the problem is resolved to the satisfaction of the Corps.

COMPENSATORY MITIGATION

19. North Carolina Division of Mitigation Services:

In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit

authorization.

20. CONCRETE CONDITION: The permittee shall take measures to prevent live or fresh concrete, including bags of uncured concrete, from coming into contact with any water in or entering into waters of the United States. Water inside coffer dams or casings that has been in contact with concrete shall only be returned to waters of the United States when it no longer poses a threat to aquatic organisms (concrete is set and cured).

21. CULVERTS: For construction of culverts, measures will be included in the construction that will promote the safe passage of fish and other aquatic organisms. For all culvert construction activities, the dimension, pattern, and profile of the stream, (above and below a pipe or culvert), should not be modified by widening the stream channel or by reducing the depth of the stream. Culvert inverts will be buried at least one foot below the bed of the stream for culverts greater than 48 inches in diameter. For culverts 48 inches in diameter or smaller, culverts must be buried below the bed of the stream to a depth equal to or greater than 20 percent of the diameter of the culvert.

22. MORATORIA: To avoid adverse impacts to spawning populations of fish species at this project site; the following in-water work moratoria will be adhered to:

-No in-water work will be permitted in the Trent River between February 15 and June 15 of any year without prior approval from the Corps and the NMFS. The permittee shall follow the NCDOT policy entitled "Stream Crossing Guidelines for Anadromous Fish Passage" (May 12, 1997) at all times.

-No in-water work will be permitted in the White Oak River between February 15 and September 30 of any year due to an Inland Primary Nursery Area designation; without prior approval from the Corps and the NC Wildlife Resources Commission. For the purpose of this moratorium, "in-water" is defined as those waters within the Trent or White Oak Rivers and their associated perennial tributaries, and their adjacent wetlands that during periods of inundation have an active connection to these tributaries.

SECTION 10 AND NAVIGATION

23. The authorized structure and associated activity must not interfere with the public's right to free navigation on all navigable waters of the United States. No attempt will be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the authorized work for reasons other than safety.

24. The permittee must install and maintain, at his expense, any signal lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, on authorized facilities. For further information, the permittee should contact the U.S. Coast Guard Marine Safety Office at (252) 247-4525.

25. This permit does not authorize the interference with any existing or proposed Federal project, and the Permittee will not be entitled to compensation for damage or injury to the authorized structure or work which may be caused from existing or future operations undertaken by the United States in the public interest.

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26. Subaqueous Crossing Notification: For utility line crossings under navigable waters, the permittee shall provide 1) the Corps and 2) the National Ocean Service, Office of Coast Survey, N/CS261, 1315 East West Highway, Silver Spring, MD 20910-3282, accurate certified as-built location drawings, or other appropriate certification such as from Miss Utility (1-800-257-7777) showing the location and configuration of the utility line upon completion of the construction. The data collected should include the “centerline” data for the utility line location in waters of the United States crossings, as well as include the “toe” data showing where utility lines enter the water at the banks as this is where dredge anchors and spuds may be placed. This information must be provided within 30 days of completion of each underwater utility line crossing.

CULTURAL RESOURCES

27. Historic Resources: The permittee shall adhere to all of the stipulations contained in the Memorandum of Agreement (MOA) between the Corps, SHPO and NC DOT as developed to address the adverse effect of the proposed improvements to US 17. Archaeological Site 31JN128 will not be avoided by construction activities; as such, data recovery excavations will be required once right-of-way has been acquired and prior to construction.

CZMA

28. The permittee shall adhere to all of the conditions set forth in the NC Division of Coastal Management Major Development permit No. 43-15, dated March 24, 2015 and all subsequent letters of refinement or modifications therein.

UTILITIES

29. All utility work performed under a non-reporting Nationwide Permit 12 (NWP 12 - Utility Lines) associated with this project is subject to all applicable terms and conditions of the NWP 12 and Wilmington District Regional Conditions.

Failure to institute and carry out the details of Special Conditions 1-29, may result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with TIP No. R-2514 B, C D or such other remedy as the District Engineer or his authorized representatives may seek.

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0000700000-N	SP	FIELD OFFICE	Lump Sum	L.S.	
0004	0001000000-E	200	CLEARING & GRUBBING .. ACRE(S)	Lump Sum	L.S.	
0005	0001010000-N	200	SELECT TREE REMOVAL	200 EA		
0006	0001020000-N	SP	GENERIC MISCELLANEOUS ITEM BOLLARD	40 EA		
0007	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUB- BING	5 ACR		
0008	0015000000-N	205	SEALING ABANDONED WELLS	1 EA		
0009	0022000000-E	225	UNCLASSIFIED EXCAVATION	184,250 CY		
0010	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ***** (102+05 -L- LT)	Lump Sum	L.S.	
0011	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ***** (102+05 -L- RT)	Lump Sum	L.S.	
0012	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ***** (147+95 -L- LT)	Lump Sum	L.S.	
0013	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ***** (147+95 -L- RT)	Lump Sum	L.S.	
0014	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ***** (173+54 -L- LT)	Lump Sum	L.S.	
0015	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ***** (173+54 -L- RT)	Lump Sum	L.S.	
0016	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ***** (18+17 -Y3-)	Lump Sum	L.S.	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0017	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+43 -Y2-)	Lump Sum	L.S.	
0018	0036000000-E	225	UNDERCUT EXCAVATION	76,650 CY		
0019	0106000000-E	230	BORROW EXCAVATION	1,893,600 CY		
0020	0134000000-E	240	DRAINAGE DITCH EXCAVATION	45,277 CY		
0021	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	35,000 SY		
0022	0177000000-E	250	BREAKING OF EXISTING ASPHALT PAVEMENT	63,200 SY		
0023	0192000000-N	260	PROOF ROLLING	150 HR		
0024	0195000000-E	265	SELECT GRANULAR MATERIAL	127,600 CY		
0025	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	120,150 SY		
0026	0199000000-E	SP	TEMPORARY SHORING	1,680 SF		
0027	0223000000-E	275	ROCK PLATING	100 SY		
0028	0241000000-E	SP	GENERIC GRADING ITEM GEOTEXTILE FOR EMBANKMENT STABILIZATION	17,350 SY		
0029	0255000000-E	SP	GENERIC GRADING ITEM HAULING AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	50 TON		
0030	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	4,774 TON		
0031	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	20,817 SY		
0032	0343000000-E	310	15" SIDE DRAIN PIPE	1,644 LF		
0033	0344000000-E	310	18" SIDE DRAIN PIPE	2,576 LF		
0034	0345000000-E	310	24" SIDE DRAIN PIPE	1,772 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	0348000000-E	310	*** SIDE DRAIN PIPE ELBOWS (15")	34 EA		
0036	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (15", V)	48 LF		
0037	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (18", V)	244 LF		
0038	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	2,784 LF		
0039	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	2,140 LF		
0040	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	1,044 LF		
0041	0384000000-E	310	30" RC PIPE CULVERTS, CLASS III	2,000 LF		
0042	0390000000-E	310	36" RC PIPE CULVERTS, CLASS III	1,264 LF		
0043	0396000000-E	310	42" RC PIPE CULVERTS, CLASS III	940 LF		
0044	0402000000-E	310	48" RC PIPE CULVERTS, CLASS III	1,100 LF		
0045	0408000000-E	310	54" RC PIPE CULVERTS, CLASS III	180 LF		
0046	0426000000-E	310	72" RC PIPE CULVERTS, CLASS III	856 LF		
0047	0448000000-E	310	**** RC PIPE CULVERTS, CLASS IV (48")	432 LF		
0048	0448000000-E	310	**** RC PIPE CULVERTS, CLASS IV (60")	80 LF		
0049	0448000000-E	310	**** RC PIPE CULVERTS, CLASS IV (72")	248 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0050	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (84")	580	LF	
0051	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	4,084	LF	
0052	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	888	LF	
0053	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	792	LF	
0054	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	164	LF	
0055	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	1,088	LF	
0056	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK (18", 0.064")	524	LF	
0057	0564000000-E	310	*** CAA PIPE ELBOWS, ***** THICK (18", 0.064")	20	EA	
0058	0995000000-E	340	PIPE REMOVAL	7,279	LF	
0059	0996000000-N	350	PIPE CLEAN-OUT	11	EA	
0060	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0061	1099500000-E	505	SHALLOW UNDERCUT	2,000	CY	
0062	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	3,800	TON	
0063	1111000000-E	SP	CLASS IV AGGREGATE STABILIZATION	94,500	TON	
0064	1121000000-E	520	AGGREGATE BASE COURSE	244,300	TON	
0065	1220000000-E	545	INCIDENTAL STONE BASE	2,000	TON	
0066	1275000000-E	600	PRIME COAT	34,580	GAL	
0067	1330000000-E	607	INCIDENTAL MILLING	3,000	SY	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0068	1489000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0B	3,560 TON		
0069	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	6,370 TON		
0070	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	94,000 TON		
0071	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	8,600 TON		
0072	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	80,700 TON		
0073	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	10,231 TON		
0074	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	200 TON		
0075	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	64,000 LF		
0076	2022000000-E	815	SUBDRAIN EXCAVATION	448 CY		
0077	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	2,000 SY		
0078	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	336 CY		
0079	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	2,000 LF		
0080	2070000000-N	815	SUBDRAIN PIPE OUTLET	4 EA		
0081	2077000000-E	815	6" OUTLET PIPE	24 LF		
0082	2209000000-E	838	ENDWALLS	123.2 CY		
0083	2220000000-E	838	REINFORCED ENDWALLS	105.3 CY		
0084	2253000000-E	840	PIPE COLLARS	1.317 CY		
0085	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	158 EA		
0086	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	25.47 CY		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0087	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	47.3	LF	
0088	2354000000-N	840	FRAME WITH GRATE, STD 840.22	17	EA	
0089	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	27	EA	
0090	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	51	EA	
0091	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	80	EA	
0092	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	3	EA	
0093	2407000000-N	840	STEEL FRAME WITH TWO GRATES, STD 840.37	1	EA	
0094	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	27	EA	
0095	2556000000-E	846	SHOULDER BERM GUTTER	8,750	LF	
0096	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	4,040	SY	
0097	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	200	LF	
0098	3000000000-N	SP	IMPACT ATTENUATOR UNIT, TYPE 350	4	EA	
0099	3030000000-E	862	STEEL BM GUARDRAIL	15,925	LF	
0100	3045000000-E	862	STEEL BM GUARDRAIL, SHOP CURVED	200	LF	
0101	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	60	EA	
0102	3165000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE ***** (350, TL-2)	8	EA	
0103	3195000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE AT-1	4	EA	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0104	3210000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	15 EA		
0105	3215000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE III	4 EA		
0106	3270000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE 350	19 EA		
0107	3285000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE M-350	8 EA		
0108	3317000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE B-77	32 EA		
0109	3380000000-E	862	TEMPORARY STEEL BM GUARDRAIL	1,962.5 LF		
0110	3389100000-N	SP	TEMPORARY GUARDRAIL ANCHOR UNITS, TYPE 350	2 EA		
0111	3389400000-E	865	DOUBLE FACED CABLE GUIDERAIL	14,079 LF		
0112	3389500000-N	865	ADDITIONAL GUIDERAIL POSTS	50 EA		
0113	3389600000-N	865	CABLE GUIDERAIL ANCHOR UNITS	18 EA		
0114	3503000000-E	866	WOVEN WIRE FENCE, 47" FABRIC	84,800 LF		
0115	3509000000-E	866	4" TIMBER FENCE POSTS, 7'-6" LONG	5,420 EA		
0116	3515000000-E	866	5" TIMBER FENCE POSTS, 8'-0" LONG	1,190 EA		
0117	3572000000-E	867	CHAIN LINK FENCE RESET	120 LF		
0118	3575000000-E	SP	GENERIC FENCING ITEM WILDLIFE FENCE WITH POSTS	9,000 LF		
0119	3578000000-N	SP	GENERIC FENCING ITEM WILDLIFE GATES	2 EA		
0120	3595000000-E	869	RELAPPING GUARDRAIL	950 LF		
0121	3628000000-E	876	RIP RAP, CLASS I	935 TON		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0122	3649000000-E	876	RIP RAP, CLASS B	1,130 TON		
0123	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	15,074 SY		
0124	4048000000-E	902	REINFORCED CONCRETE SIGN FOUNDATIONS	12 CY		
0125	4066000000-E	903	SUPPORTS, SIMPLE STEEL BEAM	6,953 LB		
0126	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	474 LF		
0127	4082000000-E	903	SUPPORTS, WOOD	4,820 LF		
0128	4096000000-N	904	SIGN ERECTION, TYPE D	20 EA		
0129	4102000000-N	904	SIGN ERECTION, TYPE E	214 EA		
0130	4108000000-N	904	SIGN ERECTION, TYPE F	58 EA		
0131	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	2 EA		
0132	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	2 EA		
0133	4114000000-N	904	SIGN ERECTION, MILEMARKERS	38 EA		
0134	4116100000-N	904	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (D)	2 EA		
0135	4141000000-N	907	DISPOSAL OF SUPPORT, WOOD	2 EA		
0136	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	12 EA		
0137	4158000000-N	907	DISPOSAL OF SIGN SYSTEM, WOOD	23 EA		
0138	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	2,750 SF		
0139	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	608 SF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0140	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	516	SF	
0141	4415000000-N	1115	FLASHING ARROW BOARD	2	EA	
0142	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	5	EA	
0143	4430000000-N	1130	DRUMS	745	EA	
0144	4435000000-N	1135	CONES	60	EA	
0145	4445000000-E	1145	BARRICADES (TYPE III)	680	LF	
0146	4455000000-N	1150	FLAGGER	550	DAY	
0147	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	2	EA	
0148	4480000000-N	1165	TMA	2	EA	
0149	4485000000-E	1170	PORTABLE CONCRETE BARRIER	4,400	LF	
0150	4510000000-N	SP	LAW ENFORCEMENT	144	HR	
0151	4516000000-N	1180	SKINNY DRUM	80	EA	
0152	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	1,435	EA	
0153	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	8,930	LF	
0154	4686000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	9,501	LF	
0155	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	189,478	LF	
0156	4690000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 120 MILS)	29,855	LF	
0157	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	300	LF	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0158	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	8,402 LF		
0159	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	56 LF		
0160	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	108 EA		
0161	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)	6,000 LF		
0162	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	525,135 LF		
0163	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	1,500 LF		
0164	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	220 LF		
0165	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	25 EA		
0166	4847000000-E	1205	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)	1,996 LF		
0167	4847100000-E	1205	POLYUREA PAVEMENT MARKING LINES (6", *****) (HIGHLY REFLECTIVE ELEMENTS)	4,741 LF		
0168	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	14,600 LF		
0169	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	44 EA		
0170	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	1,909 EA		
0171	4915000000-E	1264	7' U-CHANNEL POSTS	15 EA		
0172	4955000000-N	1264	OBJECT MARKERS (END OF ROAD)	15 EA		
0173	5325200000-E	1510	2" WATER LINE	250 LF		
0174	5325600000-E	1510	6" WATER LINE	23,990 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0175	5325800000-E	1510	8" WATER LINE	6,524 LF		
0176	5326000000-E	1510	10" WATER LINE	2,924 LF		
0177	5326200000-E	1510	12" WATER LINE	2,050 LF		
0178	5534000000-E	1515	*** VALVE (14")	1 EA		
0179	5536000000-E	1515	2" VALVE	2 EA		
0180	5540000000-E	1515	6" VALVE	29 EA		
0181	5546000000-E	1515	8" VALVE	13 EA		
0182	5552000000-E	1515	10" VALVE	4 EA		
0183	5558000000-E	1515	12" VALVE	3 EA		
0184	5571000000-E	1515	*** TAPPING VALVE (14")	1 EA		
0185	5571600000-E	1515	6" TAPPING VALVE	3 EA		
0186	5571800000-E	1515	8" TAPPING VALVE	1 EA		
0187	5572000000-E	1515	10" TAPPING VALVE	1 EA		
0188	5606000000-E	1515	2" BLOW OFF	5 EA		
0189	5648000000-N	1515	RELOCATE WATER METER	106 EA		
0190	5656610000-E	1515	RELOCATE 6" RPZ BACKFLOW PRE- VENTION ASSEMBLY	1 EA		
0191	5666000000-E	1515	FIRE HYDRANT	14 EA		
0192	5672000000-N	1515	RELOCATE FIRE HYDRANT	4 EA		
0193	5773000000-N	SP	UTILITY VAULT	1 EA		
0194	5798000000-E	1530	ABANDON *** UTILITY PIPE (14")	297 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0195	5801000000-E	1530	ABANDON 8" UTILITY PIPE	1,882 LF		
0196	5802000000-E	1530	ABANDON 10" UTILITY PIPE	2,615 LF		
0197	5804000000-E	1530	ABANDON 12" UTILITY PIPE	1,941 LF		
0198	5835600000-E	1540	12" ENCASEMENT PIPE	467 LF		
0199	5835700000-E	1540	16" ENCASEMENT PIPE	346.1 LF		
0200	5835900000-E	1540	20" ENCASEMENT PIPE	364 LF		
0201	5836000000-E	1540	24" ENCASEMENT PIPE	135 LF		
0202	5871400000-E	1550	TRENCHLESS INSTALLATION OF 6" IN SOIL	2,274 LF		
0203	5871410000-E	1550	TRENCHLESS INSTALLATION OF 6" NOT IN SOIL	251 LF		
0204	6000000000-E	1605	TEMPORARY SILT FENCE	205,000 LF		
0205	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	5,500 TON		
0206	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	27,000 TON		
0207	6012000000-E	1610	SEDIMENT CONTROL STONE	30,000 TON		
0208	6015000000-E	1615	TEMPORARY MULCHING	500 ACR		
0209	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	30,200 LB		
0210	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	148.5 TON		
0211	6024000000-E	1622	TEMPORARY SLOPE DRAINS	50,000 LF		
0212	6029000000-E	SP	SAFETY FENCE	34,000 LF		
0213	6030000000-E	1630	SILT EXCAVATION	105,000 CY		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0214	6036000000-E	1631	MATTING FOR EROSION CONTROL	268,000 SY		
0215	6037000000-E	SP	COIR FIBER MAT	1,900 SY		
0216	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	1,020 SY		
0217	6042000000-E	1632	1/4" HARDWARE CLOTH	5,000 LF		
0218	6043000000-E	SP	LOW PERMEABILITY GEOTEXTILE	4,150 SY		
0219	6046000000-E	1636	TEMPORARY PIPE FOR STREAM CROSSING	500 LF		
0220	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	500 SY		
0221	6070000000-N	1639	SPECIAL STILLING BASINS	40 EA		
0222	6071012000-E	SP	COIR FIBER WATTLE	27,000 LF		
0223	6071020000-E	SP	POLYACRYLAMIDE (PAM)	12,700 LB		
0224	6071030000-E	1640	COIR FIBER BAFFLE	43,100 LF		
0225	6071050000-E	SP	*** SKIMMER (1-1/2")	119 EA		
0226	6071050000-E	SP	*** SKIMMER (2")	10 EA		
0227	6084000000-E	1660	SEEDING & MULCHING	400 ACR		
0228	6087000000-E	1660	MOWING	300 ACR		
0229	6090000000-E	1661	SEED FOR REPAIR SEEDING	6,300 LB		
0230	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	23 TON		
0231	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	12,550 LB		
0232	6108000000-E	1665	FERTILIZER TOPDRESSING	376 TON		
0233	6111000000-E	SP	IMPERVIOUS DIKE	195 LF		

County : Jones, Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0234	6114500000-N	1667	SPECIALIZED HAND MOWING	150 MHR		
0235	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	250 EA		
0236	6123000000-E	1670	REFORESTATION	25 ACR		
0237	6126000000-E	SP	STREAMBANK REFORESTATION	1.13 ACR		
0238	6135000000-E	SP	GENERIC EROSION CONTROL ITEM COMPOST BLANKET	25 ACR		
STRUCTURE ITEMS						
0239	8017000000-N	SP	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (147+95.00 -L- RT)	Lump Sum	L.S.	
0240	8017000000-N	SP	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (173+54.45 -L- LT)	Lump Sum	L.S.	
0241	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 116+07.49 -L-)	Lump Sum	L.S.	
0242	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 216+65.63 -L-)	Lump Sum	L.S.	
0243	8112730000-N	450	PDA TESTING	19 EA		
0244	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** (173+54.45 -L- LT)	Lump Sum	L.S.	
0245	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** (173+54.46 -L- RT)	Lump Sum	L.S.	
0246	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	132,134 SF		
0247	8161000000-E	420	GROOVING BRIDGE FLOORS	123,361 SF		

County : Jones, Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0248	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	1,342.1 CY		
0249	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (102+05.00 -L- LT)	Lump Sum	L.S.	
0250	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (102+05.00 -L- RT)	Lump Sum	L.S.	
0251	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (116+07.49 -L-)	Lump Sum	L.S.	
0252	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (147+95.00 -L- LT)	Lump Sum	L.S.	
0253	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (147+95.00 -L- RT)	Lump Sum	L.S.	
0254	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (173+54.46 -L- LT)	Lump Sum	L.S.	
0255	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (173+54.46 -L- RT)	Lump Sum	L.S.	
0256	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (216+65.63 -L-)	Lump Sum	L.S.	
0257	8217000000-E	425	REINFORCING STEEL (BRIDGE)	223,805 LB		
0258	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	1,935 LB		
0259	8259000000-E	430	36" PRESTRESSED CONCRETE GIR- DERS	1,172.5 LF		
0260	8262000000-E	430	45" PRESTRESSED CONCRETE GIR- DERS	2,120.6 LF		
0261	8265000000-E	430	54" PRESTRESSED CONCRETE GIR- DERS	1,105.56 LF		
0262	8274000000-E	430	MODIFIED 63" PRESTRESSED CONC GIRDERS	9,198 LF		

County: Jones, Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0263	8329000000-E	450	12" PRESTRESSED CONCRETE PILES	3,115 LF		
0264	8333000000-E	450	16" PRESTRESSED CONCRETE PILES	360 LF		
0265	8364000000-E	450	HP12X53 STEEL PILES	1,100 LF		
0266	8384200000-E	450	HP14X73 GALVANIZED STEEL PILES	780 LF		
0267	8385200000-E	450	PP ** X **** GALVANIZED STEEL PILES (14 X 0.50)	480 LF		
0268	8385200000-E	450	PP ** X **** GALVANIZED STEEL PILES (16 X 0.50)	400 LF		
0269	8385200000-E	450	PP ** X **** GALVANIZED STEEL PILES (30 X 0.50)	7,000 LF		
0270	8391000000-N	450	STEEL PILE POINTS	142 EA		
0271	8392000000-N	450	PIPE PILE PLATES	24 EA		
0272	8392500000-E	450	PREDRILLING FOR PILES	4,340 LF		
0273	8393000000-N	450	PILE REDRIVES	136 EA		
0274	8475000000-E	460	TWO BAR METAL RAIL	431.49 LF		
0275	8503000000-E	460	CONCRETE BARRIER RAIL	6,171.25 LF		
0276	8517000000-E	460	1'-****X ***** CONCRETE PARA- PET (1'-2" X 2'-6")	448.41 LF		
0277	8531000000-E	462	4" SLOPE PROTECTION	1,085 SY		
0278	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	2,640 TON		
0279	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	2,934 SY		
0280	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0281	8692000000-N	SP	FOAM JOINT SEALS	Lump Sum	L.S.	

County : Jones, Onslow

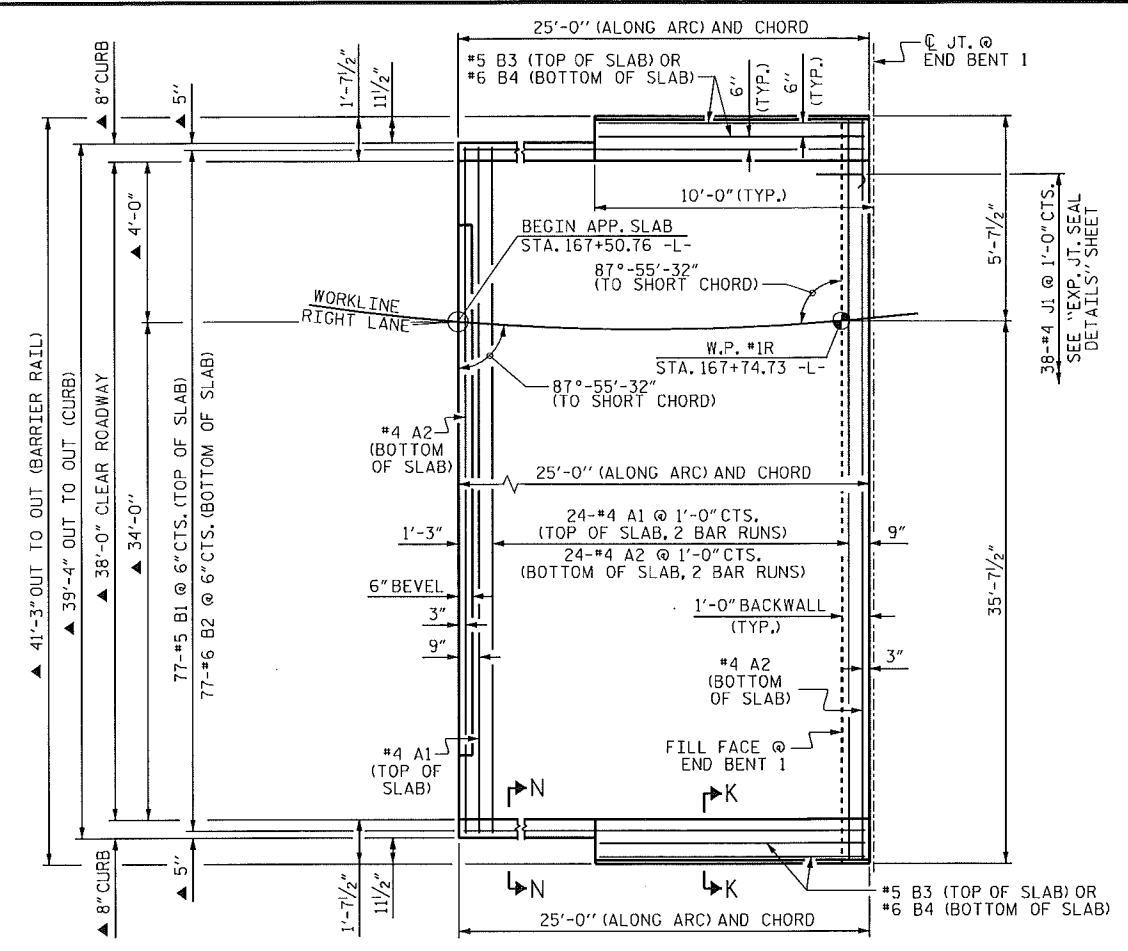
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0282	8706000000-N	SP	EXPANSION JOINT SEALS	Lump Sum	L.S.	
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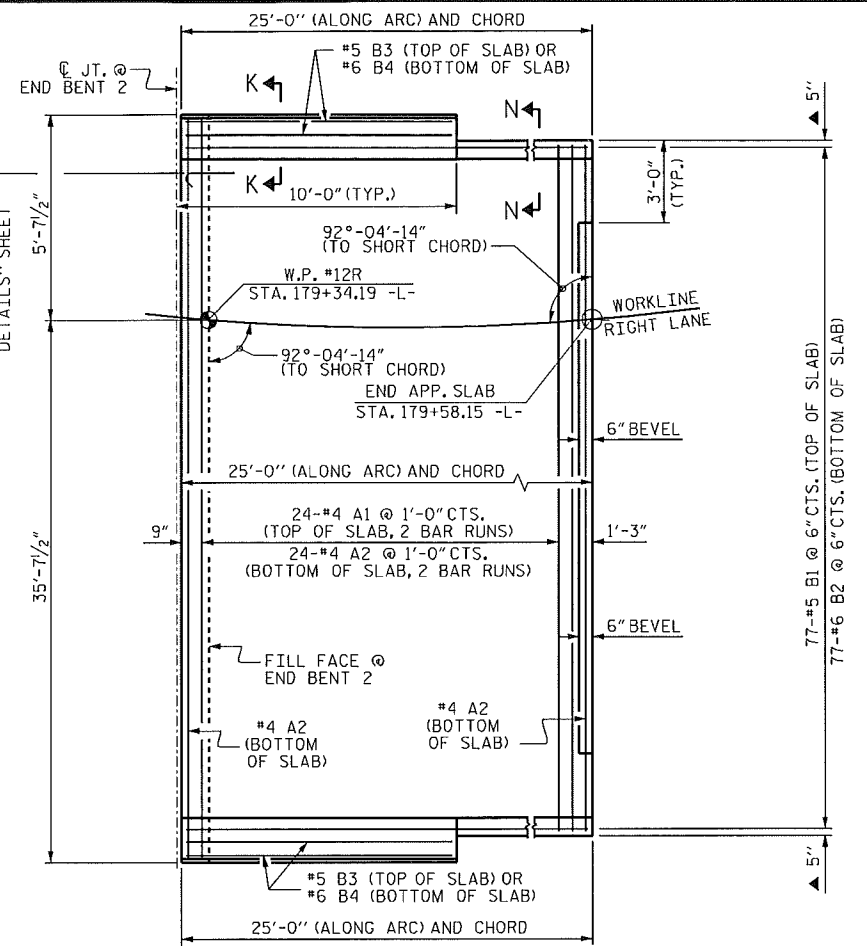
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Total Amount Of Bid For Entire Project :

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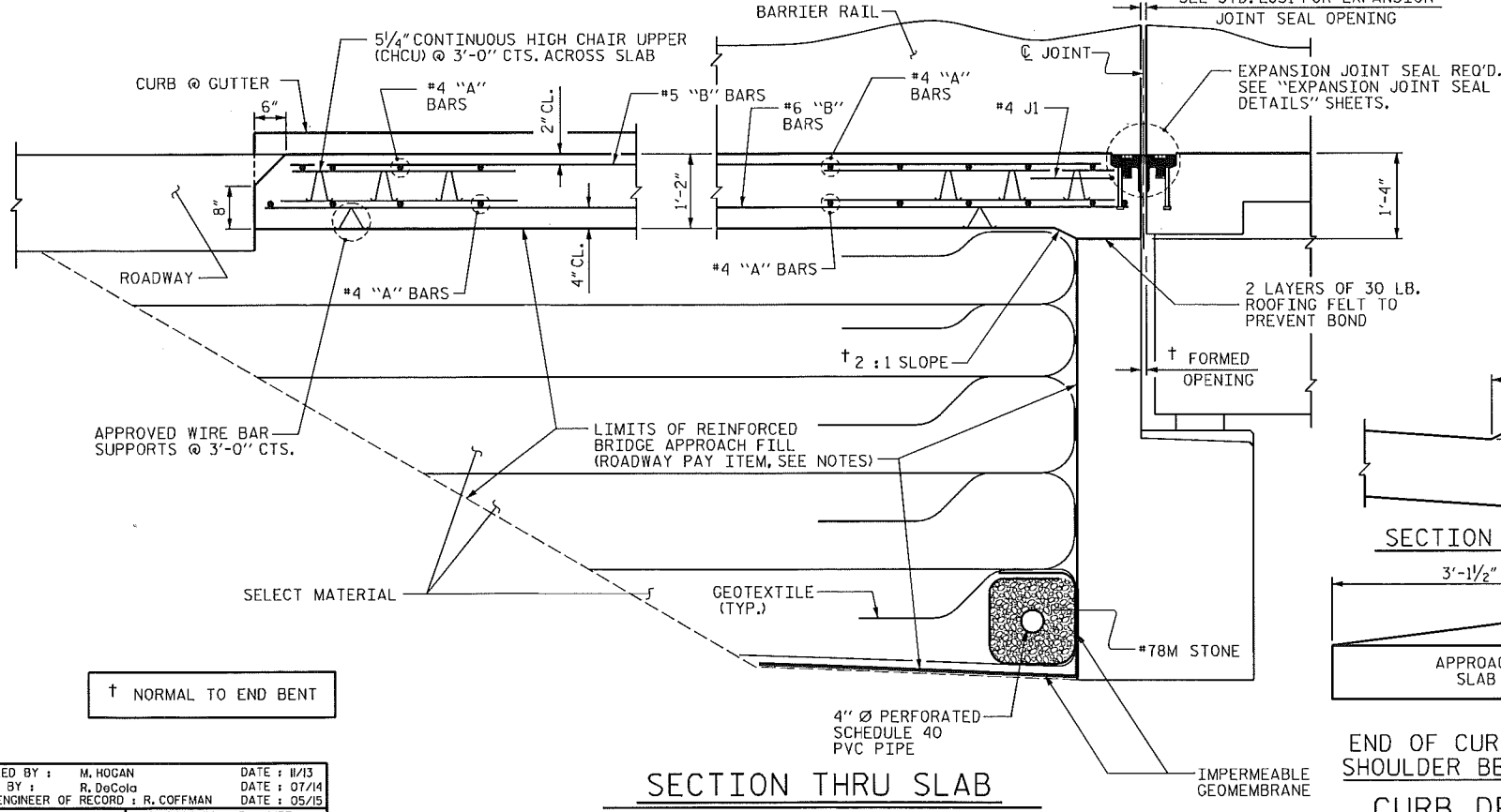
PLAN @ END BENT 1



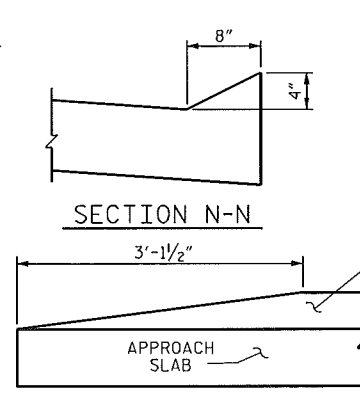
PLAN @ END BENT 2

▲ RADIAL DIMENSIONS

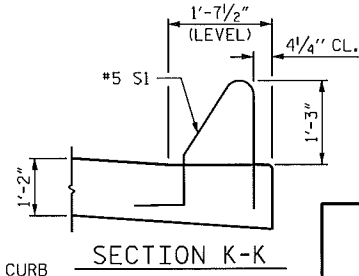
DIMENSIONS SHOWN ARE TYPICAL FOR BOTH APPROACH SLABS
 † SEE STD. EJS1 FOR EXPANSION JOINT SEAL OPENING



SECTION THRU SLAB



SECTION N-N
 END OF CURB WITHOUT SHOULDER BERM GUTTER



SECTION K-K

SPlice LENGTHS		
BAR SIZE	EPOXY COATED	UNCOATED
#4	2'-0"	1'-9"
#5	2'-6"	2'-2"
#6	3'-10"	2'-7"

NOTES

- APPROACH SLAB SHALL NOT BE CONSTRUCTED PRIOR TO COMPLETION OF THE BRIDGE DECK.
- FOR REINFORCED BRIDGE APPROACH FILL INCLUDING GEOTEXTILE, IMPERMEABLE GEOMEMBRANE, 4" Ø DRAINAGE PIPE, #78M STONE, AND SELECT MATERIAL, SEE ROADWAY PLANS.
- AREA BETWEEN THE WINGWALL AND APPROACH SLAB SHALL BE GRADED TO DRAIN THE WATER AWAY FROM THE FILL FACE OF THE BRIDGE AND SHALL BE PAVED. SEE ROADWAY PLANS.
- FOR EXPANSION JOINT SEALS, SEE SPECIAL PROVISIONS.
- ARC OFFSETS ARE NEGLIGIBLE.

THE QUANTITY OF #4 JI BARS ON THE BILL OF MATERIAL IS BASED ON 1'-0" CENTERS. JI BARS SHALL BE PLACED AT EACH VERTICAL STUD ANCHOR BOLT. IN THE EVENT THAT THE NUMBER OF VERTICAL STUD ANCHORS EXCEEDS THE NUMBER OF JI BARS SPECIFIED, ADDITIONAL JI BARS WILL NOT BE REQUIRED.

BILL OF MATERIAL						
APPROACH SLAB AT EB #1						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
*A1	50	#4	STR	21'-6"	718	
A2	52	#4	STR	21'-4"	741	
*B1	77	#5	STR	24'-8"	1981	
B2	77	#6	STR	24'-8"	2853	
*B3	4	#5	STR	9'-8"	40	
B4	4	#6	STR	9'-8"	58	
*JI	38	#4	I	1'-5"	36	
REINFORCING STEEL **					LBS.	3652
*EPOXY COATED REINFORCING STEEL **					LBS.	2775
CLASS AA CONCRETE **					C.Y.	43.6
APPROACH SLAB AT EB #2						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
*A1	50	#4	STR	21'-6"	718	
A2	52	#4	STR	21'-4"	741	
*B1	77	#5	STR	24'-8"	1981	
B2	77	#6	STR	24'-8"	2853	
*B3	4	#5	STR	9'-8"	40	
B4	4	#6	STR	9'-8"	58	
*JI	38	#4	I	1'-5"	36	
REINFORCING STEEL **					LBS.	3652
*EPOXY COATED REINFORCING STEEL **					LBS.	2775
CLASS AA CONCRETE **					C.Y.	43.6
BAR TYPE						
ALL BAR DIMENSIONS ARE OUT TO OUT						
** QUANTITIES FOR BARRIER RAIL ARE NOT INCLUDED. SEE SHEET 2 OF 2.						

PROJECT NO. R-2514B
ONSLow/JONES COUNTY
 STATION: 173+54.46 -L-
 SHEET 1 OF 2

Seal 29112
 The LOUIS BERGER GROUP, Inc.
 1001 Wade Avenue, Suite 400
 Raleigh, NC 27605-3322
 NC COA No. F-0840
 5/28/2015

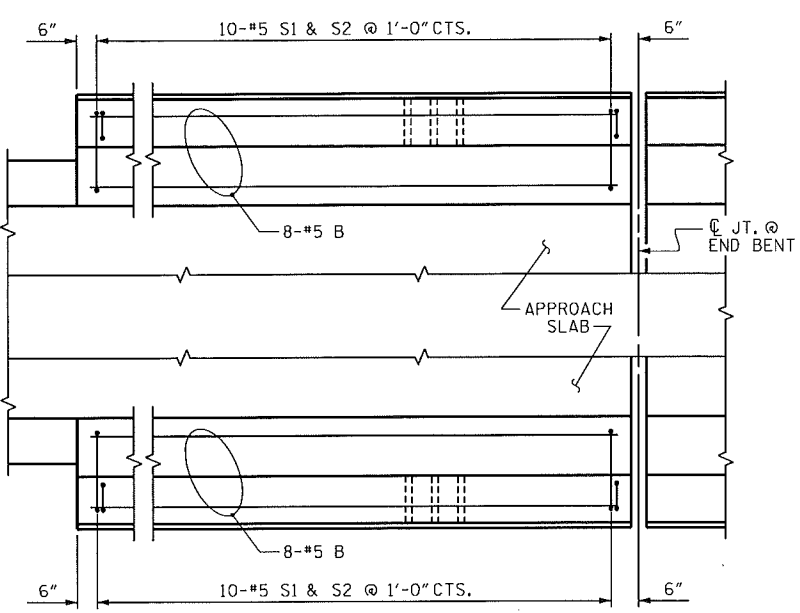
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
STANDARD BRIDGE APPROACH SLAB FOR FLEXIBLE PAVEMENT					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. 55-74
 TOTAL SHEETS 75

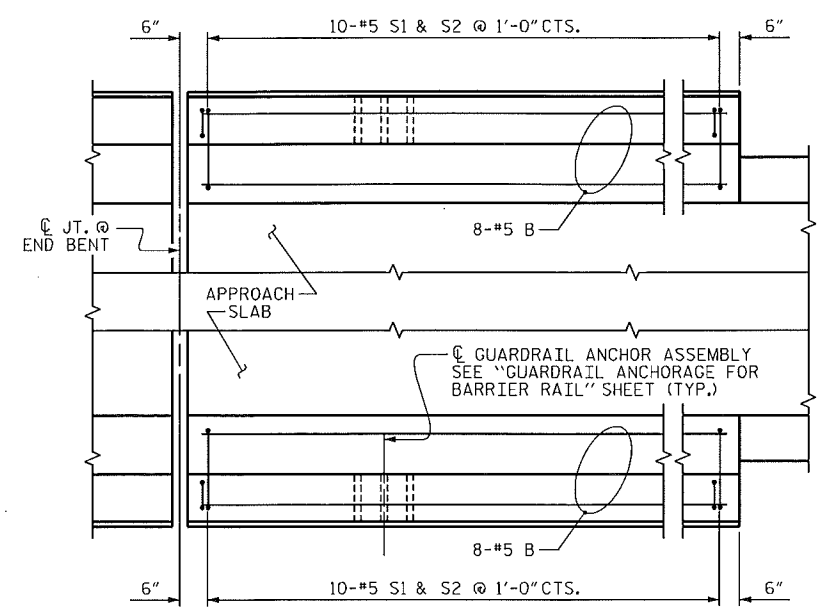
ASSEMBLED BY: M. HOGAN	DATE: 11/13
CHECKED BY: R. DeCoto	DATE: 07/14
DESIGN ENGINEER OF RECORD: R. COFFMAN	DATE: 05/15
DRAWN BY: EEM 3/95	REV. 5/7/03R RHW/JTE
CHECKED BY: VAP 3/95	REV. 5/1/06RR KMM/GM
	REV. 10/1/11 MAA/GM

*****SYSTIME*****
 *****DCN*****
 *****USER*****

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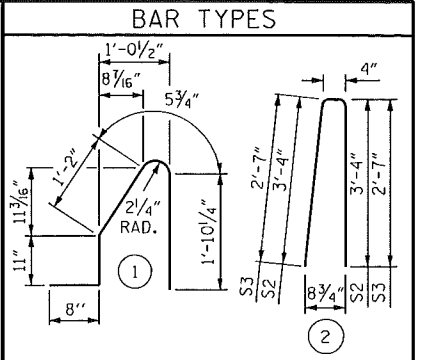
END BENT #1



END BENT #2

PLAN OF BARRIER RAIL

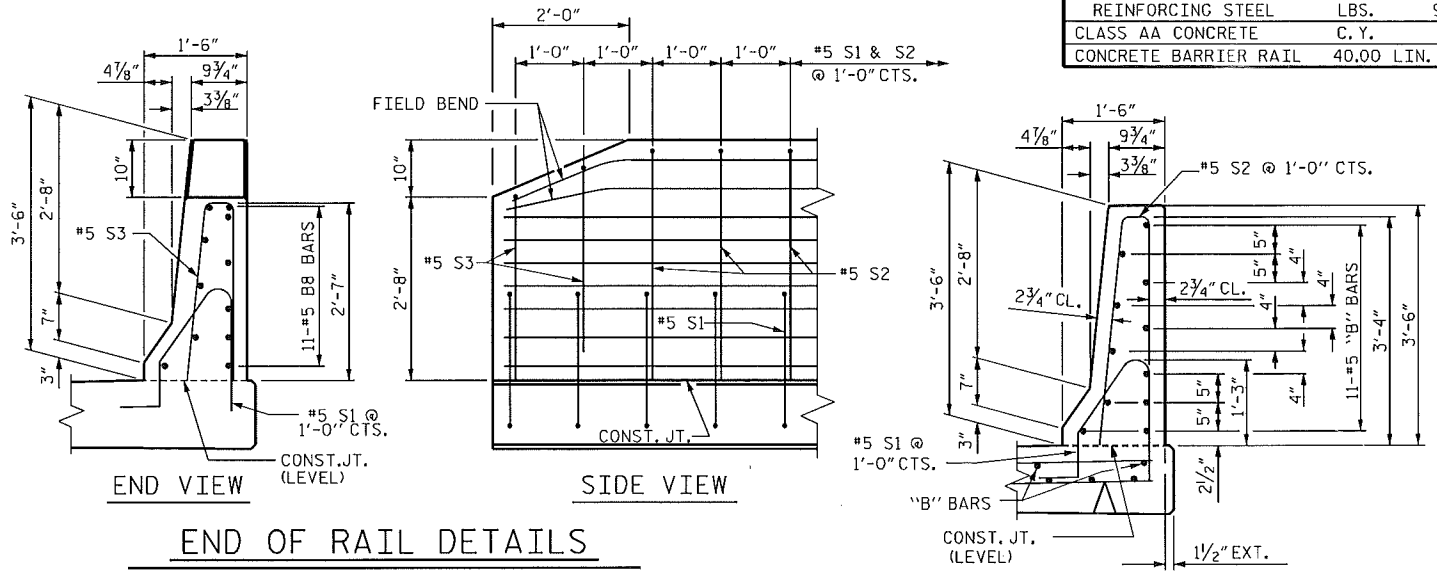
NOTES
 THE COST OF THE BARRIER RAIL ON THE APPROACH SLAB SHALL BE INCLUDED IN THE LINEAR FOOT CONTRACT PRICE BID FOR "CONCRETE BARRIER RAIL".
 THE BARRIER RAIL ON EACH APPROACH SLAB SHALL NOT BE CAST UNTIL ALL APPROACH SLAB CONCRETE HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
 ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.



ALL BAR DIMENSIONS ARE OUT TO OUT

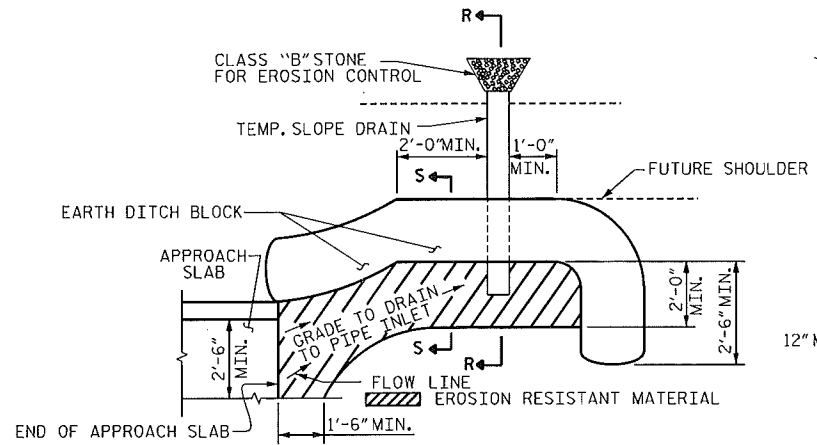
BILL OF MATERIAL

BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B8	44	#5	STR	9'-8"	444
* S1	40	#5	1	5'-1"	212
* S2	32	#5	2	7'-0"	234
* S3	8	#5	2	5'-6"	46
* EPOXY COATED REINFORCING STEEL				LBS.	936
CLASS AA CONCRETE				C. Y.	5.3
CONCRETE BARRIER RAIL				40.00 LIN. FT.	

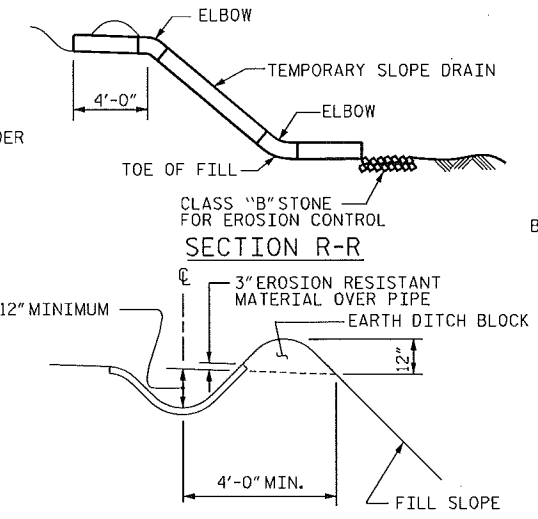


END OF RAIL DETAILS

SECTION THRU RAIL



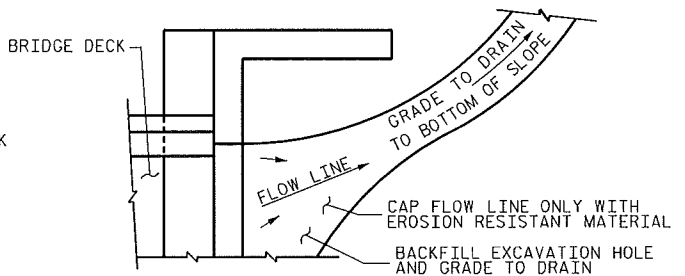
PLAN VIEW



SECTION S-S

TEMPORARY BERM AND SLOPE DRAIN DETAILS

(TO BE USED WHEN SHOULDER BERM CUTTER IS REQUIRED)



TEMPORARY DRAINAGE DETAIL

NOTE: IF THE APPROACH SLAB IS NOT CONSTRUCTED IMMEDIATELY AFTER THE BACKFILLING OF THE END BENT EXCAVATION, GRADE TO DRAIN TO THE BOTTOM OF THE SLOPE AND PROVIDE EROSION RESISTANT MATERIAL, SUCH AS FIBERGLASS ROVING OR AS DIRECTED BY THE ENGINEER TO PREVENT SOIL EROSION AND TO PROTECT THE AREA ADJACENT TO THE STRUCTURE. THE CONTRACTOR WILL BE REQUIRED TO REMOVE THESE MATERIALS PRIOR TO CONSTRUCTION OF THE APPROACH SLAB.

PROJECT NO. R-2514B
 ONSLOW/JONES COUNTY
 STATION: 173+54.46 -L-
 SHEET 2 OF 2

Seal of Richard Coffman, Professional Engineer, No. 29112, State of North Carolina, dated 5/28/2015.

The LOUIS BERGER GROUP, Inc.,
 1001 Wade Avenue, Suite 400
 Raleigh, NC 27605-3322
 NC COA No. F-0840

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
STANDARD BRIDGE APPROACH SLAB DETAILS					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.	S5-75
TOTAL SHEETS	75