

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

C204135

CONTRACT AND
CONTRACT BONDS

FOR CONTRACT NO. C204135

WBS

2018CPT.03.04.10101, 2018CPT.03.04.10651, 2018CPT.03.04.20651,
2018CPT.03.04.20652 STATE FUNDED

COUNTY OF BRUNSWICK, NEW HANOVER
THIS IS THE ROADWAY CONTRACT
ROUTE NUMBER US 76 LENGTH 32.239 MILES
LOCATION 1 SECTION OF US-17 BUS/US-76, 1 SECTION OF US-421, 1 SECTION
OF NC-132, AND 59 SECTIONS OF SECONDARY ROADS.

CONTRACTOR HIGHLAND PAVING COMPANY LLC
ADDRESS P.O. BOX 1843
FAYETTEVILLE, NC 28302

BIDS OPENED FEBRUARY 20, 2018
CONTRACT EXECUTION 3/20/2018

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

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 02-06-2018

DATE AND TIME OF BID OPENING: **FEBRUARY 20, 2018 AT 2:00 PM**

CONTRACT ID C204135

WBS 2018CPT.03.04.10101, 2018CPT.03.04.10651, 2018CPT.03.04.20651, 2018CPT.03.04.20652

FEDERAL-AID NO. STATE FUNDED

COUNTY BRUNSWICK, NEW HANOVER

T.I.P. NO.

MILES 32.239

ROUTE NO. US 76

LOCATION 1 SECTION OF US-17 BUS/US-76, 1 SECTION OF US-421, 1 SECTION OF NC-132, AND 59 SECTIONS OF SECONDARY ROADS.

TYPE OF WORK WIDENING, MILLING, RESURFACING, SHOULDER RECON & GUARDRAIL.

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 PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

**PROPOSAL FOR THE CONSTRUCTION OF
CONTRACT No. C204135 IN BRUNSWICK AND NEW HANOVER COUNTIES, NORTH CAROLINA**

Date _____ 20 _____

**DEPARTMENT OF TRANSPORTATION,
RALEIGH, NORTH CAROLINA**

The Bidder has carefully examined the location of the proposed work to be known as Contract No. C204135 has carefully examined the plans and specifications, which are acknowledged to be part of the proposal, the special provisions, the proposal, the form of contract, and the forms of contract payment bond and contract performance bond; and thoroughly understands the stipulations, requirements and provisions. The undersigned bidder agrees to bound upon his execution of the bid and subsequent award to him by the Board of Transportation in accordance with this proposal to provide the necessary contract payment bond and contract performance bond within fourteen days after the written notice of award is received by him. The undersigned Bidder further agrees to provide all necessary machinery, tools, labor, and other means of construction; and to do all the work and to furnish all materials, except as otherwise noted, necessary to perform and complete the said contract in accordance with *the 2018 Standard Specifications for Roads and Structures* by the dates(s) specified in the Project Special Provisions and in accordance with the requirements of the Engineer, and at the unit or lump sum prices, as the case may be, for the various items given on the sheets contained herein.

The Bidder shall provide and furnish all the materials, machinery, implements, appliances and tools, and perform the work and required labor to construct and complete State Highway Contract No. C204135 in Brunswick and New Hanover Counties, for the unit or lump sum prices, as the case may be, bid by the Bidder in his bid and according to the proposal, plans, and specifications prepared by said Department, which proposal, plans, and specifications show the details covering this project, and hereby become a part of this contract.

The published volume entitled *North Carolina Department of Transportation, Raleigh, Standard Specifications for Roads and Structures, January 2018* with all amendments and supplements thereto, is by reference incorporated into and made a part of this contract; that, except as herein modified, all the construction and work included in this contract is to be done in accordance with the specifications contained in said volume, and amendments and supplements thereto, under the direction of the Engineer.

If the proposal is accepted and the award is made, the contract is valid only when signed either by the Contract Officer or such other person as may be designated by the Secretary to sign for the Department of Transportation. The conditions and provisions herein cannot be changed except over the signature of the said Contract Officer.

The quantities shown in the itemized proposal for the project are considered to be approximate only and are given as the basis for comparison of bids. The Department of Transportation may increase or decrease the quantity of any item or portion of the work as may be deemed necessary or expedient.

An increase or decrease in the quantity of an item will not be regarded as sufficient ground for an increase or decrease in the unit prices, nor in the time allowed for the completion of the work, except as provided for the contract.

Accompanying this bid is a bid bond secured by a corporate surety, or certified check payable to the order of the Department of Transportation, for five percent of the total bid price, which deposit is to be forfeited as liquidated damages in case this bid is accepted and the Bidder shall fail to provide the required payment and performance bonds with the Department of Transportation, under the condition of this proposal, within 14 calendar days after the written notice of award is received by him, as provided in the *Standard Specifications*; otherwise said deposit will be returned to the Bidder.



State Contract Officer

DocuSigned by:

Ronald E. Davenport, Jr.

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2/6/2018

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PROJECT SPECIAL PROVISIONS**GENERAL****CONTRACT TIME AND LIQUIDATED DAMAGES:**

(7-1-95) (Rev. 12-18-07)

108

SP1 G10 A

The date of availability for this contract is **April 2, 2018**.

The completion date for this contract is **April 5, 2019**.

Except where otherwise provided by the contract, observation periods required by the contract will not be a part of the work to be completed by the completion date and/or intermediate contract times stated in the contract. The acceptable completion of the observation periods that extend beyond the final completion date shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **One Thousand Five Hundred Dollars (\$ 1,500.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SP1 G14 A

The Contractor shall complete the required work of installing, maintaining, and removing the traffic control devices for lane closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow a lane of traffic on **the following Maps** during the following time restrictions:

DAY AND TIME RESTRICTIONS**Maps #1 thru #5 (US 76 E/W, US 421 N Ramp)**

Monday thru Thursday, 5:00 AM to 7:00 PM (Night Work Only)

Friday at 5:00 AM thru Sunday at 7:00 PM (No Work)

Maps #6 thru #9 (US 421 N/S Carolina Beach Rd.) & (NC 132 N/S College Rd.)

Tuesday thru Thursday, 5:00 AM to 7:00 PM (Night Work Only)

Friday at 5:00 AM thru Monday at 7:00 PM (No Work)

Maps #10 & #11 (SR 1318 & SR 1492)

Monday thru Friday, 6:00 AM to 8:30 AM

Maps #11, #19 thru #23, #25 thru #28, #35 thru #39, #48, #49, & #53 thru #55

Monday thru Sunday, 9:00 PM to 6:00 AM (No Night Work)

Map #56 (NC State Ports Authority)

Monday thru Sunday, 6:00 AM to 6:00PM (Night Work Only)

In addition, the Contractor shall not close or narrow a lane of traffic on **Any Map**, detain and/or alter the traffic flow on or during holidays, holiday weekends, special events, or any other time when traffic is unusually heavy, including the following schedules:

HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS

1. For **unexpected occurrence** that creates unusually high traffic volumes, as directed by the Engineer.
2. For **New Year's**, between the hours of **6:00 AM** December 30th and **7:00 PM** January 3rd.
3. For **Easter**, between the hours of **6:00 AM** Thursday and **7:00 PM** Monday.
4. For **Memorial Day**, between the hours of **6:00 AM** Friday and **7:00 PM** Tuesday.
5. For **Independence Day**, between the hours of **6:00 AM** the day before Independence Day and **7:00 PM** the day after Independence Day.

If **Independence Day** is on a Friday, Saturday, Sunday or Monday, then between the hours of **6:00 AM** the Thursday before Independence Day and **7:00 PM** the Tuesday after Independence Day.
6. For **Labor Day**, between the hours of **6:00 AM** Friday and **7:00 PM** Tuesday.
7. For **Veteran's Day**, between the hours of **6:00 AM** Thursday and **7:00 PM** Monday.
8. For **Thanksgiving**, between the hours of **6:00 AM** Tuesday and **7:00 PM** Monday.
9. For **Christmas**, between the hours of **6:00 AM** the Friday before the week of Christmas Day and **7:00 PM** the following Tuesday after the week of Christmas Day.
10. For **Wilmington Azalea Festival** – Between the hours of **6:00 AM** Wednesday **April 11th, 2018** and **8:00 PM** Sunday, **April 15th, 2018**. Apply the same hour & day restrictions for Azalea Festival 2019 (Dates to Be Determined).
11. For **Wilmington Riverfest** – Between the hours of **6:00 AM** Thursday, **October 4th, 2018** and **8:00 PM** Sunday, **October 7th, 2018**.

Holidays and holiday weekends shall include New Year's, Easter, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. The Contractor shall schedule his work so that lane closures will not be required during these periods, unless otherwise directed by the Engineer.

The time of availability for this intermediate contract work shall be the time the Contractor begins to install all traffic control devices for lane closures according to the time restrictions listed herein.

The completion time for this intermediate contract work shall be the time the Contractor is required to complete the removal of all traffic control devices for lane closures according to the time restrictions stated above and place traffic in the existing traffic pattern.

The liquidated damages are **One Thousand Five Hundred Dollars (\$ 1500.00)** per hour.

INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:

(5-21-13)

108

SP1 G14 I

The Contractor shall complete the work required of installing each new inductive loop after the removal of each existing loop by the milling, patching or resurfacing operations and shall place and maintain traffic on same.

The date of availability for this intermediate contract time for each inductive loop installation will be the date when the Contractor elects to disturb the existing inductive loop.

The completion date for this intermediate contract time for each inductive loop installation will be the date which is seven (7) consecutive calendar days after the date of availability.

The liquidated damages are **One Thousand Dollars (\$ 1,000.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES:

(6-18-13)

108

SP1 G14 K

The Contractor shall complete the work required of **Map #56 (NC State Ports Authority)** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is **July 1, 2018**.

The completion date for this intermediate contract time is **November 1, 2018**.

The liquidated damages are **Seven Hundred Fifty Dollars (\$ 750.00)** per calendar day.

PROSECUTION OF WORK:

(7-1-95) (Rev. 8-21-12)

108

SP1 G15R

The Contractor will be required to prosecute the work in a continuous and uninterrupted manner from the time he begins the work until completion and final acceptance of the project. The Contractor will not be permitted to suspend his operations except for reasons beyond his control or except where the Engineer has authorized a suspension of the Contractor's operations in writing.

In the event that the Contractor's operations are suspended in violation of the above provisions, the sum of **\$ 1,500.00** will be charged the Contractor for each and every calendar day that such suspension takes place. The said amount is hereby agreed upon as liquidated damages due to extra engineering and maintenance costs and due to increased public hazard resulting from a suspension of the work. Liquidated damages chargeable due to suspension of the work will be additional to any liquidated damages that may become chargeable due to failure to complete the work on time.

RAILROAD GRADE CROSSING:

(7-1-95) (Rev. 1-15-13)

107-9

SP1 G17R

Provide at least 2 weeks advance notice to the railroad's local Roadmaster or Track Supervisor when the use of slow-moving or stopped equipment is required over at-grade railroad crossings.

MAJOR CONTRACT ITEMS:

(2-19-02)

104

SP1 G28

The following listed items are the major contract items for this contract (see Article 104-5 of the *2018 Standard Specifications*):

Line #	Description
13 —	Asphalt Concrete Surface Course, Type S9.5B

SPECIALTY ITEMS:

(7-1-95)(Rev. 1-17-12)

108-6

SP1 G37

Items listed below will be the specialty items for this contract (see Article 108-6 of the *2018 Standard Specifications*).

Line #	Description
39 - 46	Guardrail
50 - 58	Long-Life Pavement Markings
59 - 60	Permanent Pavement Markers
62 - 74	Erosion Control
75 - 77	Signals/ITS System

FUEL PRICE ADJUSTMENT:

(11-15-05) (Rev. 2-18-14)

109-8

SP1 G43

Revise the *2018 Standard Specifications* as follows:

Page 1-83, Article 109-8, Fuel Price Adjustments, add the following:

The base index price for DIESEL #2 FUEL is \$ **1.9853** per gallon. Where any of the following are included as pay items in the contract, they will be eligible for fuel price adjustment.

The pay items and the fuel factor used in calculating adjustments to be made will be as follows:

Description	Units	Fuel Usage Factor Diesel
Unclassified Excavation	Gal/CY	0.29
Borrow Excavation	Gal/CY	0.29
Class IV Subgrade Stabilization	Gal/Ton	0.55
Aggregate Base Course	Gal/Ton	0.55
Sub-Ballast	Gal/Ton	0.55
Asphalt Concrete Base Course, Type _____	Gal/Ton	2.90

Asphalt Concrete Intermediate Course, Type ____	Gal/Ton	2.90
Asphalt Concrete Surface Course, Type ____	Gal/Ton	2.90
Open-Graded Asphalt Friction Course	Gal/Ton	2.90
Permeable Asphalt Drainage Course, Type ____	Gal/Ton	2.90
Sand Asphalt Surface Course, Type ____	Gal/Ton	2.90
Aggregate for Cement Treated Base Course	Gal/Ton	0.55
Portland Cement for Cement Treated Base Course	Gal/Ton	0.55
__" Portland Cement Concrete Pavement	Gal/SY	0.245
Concrete Shoulders Adjacent to __" Pavement	Gal/SY	0.245

SCHEDULE OF ESTIMATED COMPLETION PROGRESS:

(7-15-08) (Rev. 5-16-17)

108-2

SP1 G58

The Contractor's attention is directed to the Standard Special Provision entitled *Availability of Funds Termination of Contracts* included elsewhere in this proposal. The Department of Transportation's schedule of estimated completion progress for this project as required by that Standard Special Provision is as follows:

<u>Fiscal Year</u>		<u>Progress (% of Dollar Value)</u>
2018	(7/01/17 - 6/30/18)	35% of Total Amount Bid
2019	(7/01/18 - 6/30/19)	65% of Total Amount Bid

The Contractor shall also furnish his own progress schedule in accordance with Article 108-2 of the *2018 Standard Specifications*. Any acceleration of the progress as shown by the Contractor's progress schedule over the progress as shown above shall be subject to the approval of the Engineer.

MINORITY BUSINESS ENTERPRISE AND WOMEN BUSINESS ENTERPRISE:

(10-16-07)(Rev. 1-17-17)

102-15(J)

SP1 G66

Description

The purpose of this Special Provision is to carry out the North Carolina Department of Transportation's policy of ensuring nondiscrimination in the award and administration of contracts financed in whole or in part with State funds.

Definitions

Additional MBE/WBE Subcontractors - Any MBE/WBE submitted at the time of bid that will not be used to meet either the MBE or WBE goal. No submittal of a Letter of Intent is required, unless the additional participation is used for banking purposes.

Committed MBE/WBE Subcontractor - Any MBE/WBE submitted at the time of bid that is being used to meet either the MBE or WBE goal by submission of a Letter of Intent. Or any MBE or WBE used as a replacement for a previously committed MBE or WBE firm.

Contract Goals Requirement - The approved MBE and WBE participation at time of award, but not greater than the advertised contract goals for each.

Goal Confirmation Letter - Written documentation from the Department to the bidder confirming the Contractor's approved, committed MBE and WBE participation along with a listing of the committed MBE and WBE firms.

Manufacturer - A firm that operates or maintains a factory or establishment that produces on the premises, the materials or supplies obtained by the Contractor.

MBE Goal - A portion of the total contract, expressed as a percentage, that is to be performed by committed MBE subcontractor(s).

Minority Business Enterprise (MBE) - A firm certified as a Disadvantaged Minority-Owned Business Enterprise through the North Carolina Unified Certification Program.

Regular Dealer - A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business. A regular dealer engages in, as its principal business and in its own name, the purchase and sale or lease of the products in question. A regular dealer in such bulk items as steel, cement, gravel, stone, and petroleum products need not keep such products in stock, if it owns and operates distribution equipment for the products. Brokers and packagers are not regarded as manufacturers or regular dealers within the meaning of this section.

North Carolina Unified Certification Program (NCUCP) - A program that provides comprehensive services and information to applicants for MBE/WBE certification. The MBE/WBE program follows the same regulations as the federal Disadvantaged Business Enterprise (DBE) program in accordance with 49 CFR Part 26.

United States Department of Transportation (USDOT) - Federal agency responsible for issuing regulations (49 CFR Part 26) and official guidance for the DBE program.

WBE Goal - A portion of the total contract, expressed as a percentage, that is to be performed by committed WBE subcontractor(s).

Women Business Enterprise (WBE) - A firm certified as a Disadvantaged Women-Owned Business Enterprise through the North Carolina Unified Certification Program.

Forms and Websites Referenced in this Provision

Payment Tracking System - On-line system in which the Contractor enters the payments made to MBE and WBE subcontractors who have performed work on the project.
<https://apps.dot.state.nc.us/Vendor/PaymentTracking/>

DBE-IS Subcontractor Payment Information - Form for reporting the payments made to all MBE/WBE firms working on the project. This form is for paper bid projects only.
<https://connect.ncdot.gov/business/Turnpike/Documents/Form%20DBE-IS%20Subcontractor%20Payment%20Information.pdf>

RF-1 *MBE/WBE Replacement Request Form* - Form for replacing a committed MBE or WBE.
<http://connect.ncdot.gov/projects/construction/Construction%20Forms/DBE%20MBE%20WBE%20Replacement%20Request%20Form.pdf>

SAF *Subcontract Approval Form* - Form required for approval to sublet the contract.
<http://connect.ncdot.gov/projects/construction/Construction%20Forms/Subcontract%20Approval%20Form%20Rev.%202012.zip>

JC-1 *Joint Check Notification Form* - Form and procedures for joint check notification. The form acts as a written joint check agreement among the parties providing full and prompt disclosure of the expected use of joint checks.
<http://connect.ncdot.gov/projects/construction/Construction%20Forms/Joint%20Check%20Notification%20Form.pdf>

Letter of Intent - Form signed by the Contractor and the MBE/WBE subcontractor, manufacturer or regular dealer that affirms that a portion of said contract is going to be performed by the signed MBE/WBE for the amount listed at the time of bid.
<http://connect.ncdot.gov/letting/LetCentral/Letter%20of%20Intent%20to%20Perform%20as%20a%20Subcontractor.pdf>

Listing of MBE and WBE Subcontractors Form - Form for entering MBE/WBE subcontractors on a project that will meet this MBE and WBE goals. This form is for paper bids only.
[http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/09%20MBE-WBE%20Subcontractors%20\(State\).docx](http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/09%20MBE-WBE%20Subcontractors%20(State).docx)

Subcontractor Quote Comparison Sheet - Spreadsheet for showing all subcontractor quotes in the work areas where MBEs and WBEs quoted on the project. This sheet is submitted with good faith effort packages.
<http://connect.ncdot.gov/business/SmallBusiness/Documents/DBE%20Subcontractor%20Quote%20Comparison%20Example.xls>

MBE and WBE Goal

The following goals for participation by Minority Business Enterprises and Women Business Enterprises are established for this contract:

(A) Minority Business Enterprises **3.0 %**

- (1) *If the MBE goal is more than zero*, the Contractor shall exercise all necessary and reasonable steps to ensure that MBEs participate in at least the percent of the contract as set forth above as the MBE goal.
- (2) *If the MBE goal is zero*, the Contractor shall make an effort to recruit and use MBEs during the performance of the contract. Any MBE participation obtained shall be reported to the Department.

(B) Women Business Enterprises 4.0 %

- (1) *If the WBE goal is more than zero*, the Contractor shall exercise all necessary and reasonable steps to ensure that WBEs participate in at least the percent of the contract as set forth above as the WBE goal.
- (2) *If the WBE goal is zero*, the Contractor shall make an effort to recruit and use WBEs during the performance of the contract. Any WBE participation obtained shall be reported to the Department.

Directory of Transportation Firms (Directory)

Real-time information is available about firms doing business with the Department and firms that are certified through NCUCP in the Directory of Transportation Firms. Only firms identified in the Directory as MBE and WBE certified shall be used to meet the MBE and WBE goals respectively. The Directory can be found at the following link. <https://www.ebs.nc.gov/VendorDirectory/default.html>

The listing of an individual firm in the directory shall not be construed as an endorsement of the firm's capability to perform certain work.

Listing of MBE/WBE Subcontractors

At the time of bid, bidders shall submit all MBE and WBE participation that they anticipate to use during the life of the contract. Only those identified to meet the MBE goal and the WBE goal will be considered committed, even though the listing shall include both committed MBE/WBE subcontractors and additional MBE/WBE subcontractors. Any additional MBE/WBE subcontractor participation above the goal for which letters of intent are received will follow the banking guidelines found elsewhere in this provision. All other additional MBE/WBE subcontractor participation submitted at the time of bid will be used toward the Department's overall race-neutral goals. Only those firms with current MBE and WBE certification at the time of bid opening will be acceptable for listing in the bidder's submittal of MBE and WBE participation. The Contractor shall indicate the following required information:

(A) Electronic Bids

Bidders shall submit a listing of MBE and WBE participation in the appropriate section of Expedite, the bidding software of Bid Express®.

- (1) Submit the names and addresses of MBE and WBE firms identified to participate in the contract. If the bidder uses the updated listing of MBE and WBE firms shown in Expedite, the bidder may use the dropdown menu to access the name and address of the firms.
- (2) Submit the contract line numbers of work to be performed by each MBE and WBE firm. When no figures or firms are entered, the bidder will be considered to have no MBE or WBE participation.

- (3) The bidder shall be responsible for ensuring that the MBE and WBE are certified at the time of bid by checking the Directory of Transportation Firms. If the firm is not certified at the time of the bid-letting, that MBE's or WBE's participation will not count towards achieving either the MBE or WBE goal.
- (B) Paper Bids
- (1) *If either the MBE or WBE goal is more than zero,*
 - (a) Bidders, at the time the bid proposal is submitted, shall submit a listing of MBE/WBE participation, including the names and addresses on *Listing of MBE and WBE Subcontractors* contained elsewhere in the contract documents in order for the bid to be considered responsive. Bidders shall indicate the total dollar value of the MBE and WBE participation for the contract.
 - (b) If bidders have no MBE or WBE participation, they shall indicate this on the *Listing of MBE and WBE Subcontractors* by entering the word "None" or the number "0." This form shall be completed in its entirety. **Blank forms will not be deemed to represent zero participation.** Bids submitted that do not have MBE and WBE participation indicated on the appropriate form will not be read publicly during the opening of bids. The Department will not consider these bids for award and the proposal will be rejected.
 - (c) The bidder shall be responsible for ensuring that the MBE/WBE is certified at the time of bid by checking the Directory of Transportation Firms. If the firm is not certified at the time of the bid-letting, that MBE's or WBE's participation will not count towards achieving the corresponding goal.
 - (2) *If either the MBE or WBE goal is zero,* entries on the *Listing of MBE and WBE Subcontractors* are not required for the zero goal, however any MBE or WBE participation that is achieved during the project shall be reported in accordance with requirements contained elsewhere in the special provision.

MBE or WBE Prime Contractor

When a certified MBE or WBE firm bids on a contract that contains MBE and WBE goals, the firm is responsible for meeting the goals or making good faith efforts to meet the goals, just like any other bidder. In most cases, a MBE or WBE bidder on a contract will meet one of the goals by virtue of the work it performs on the contract with its own forces. However, all the work that is performed by the MBE or WBE bidder and any other similarly certified subcontractors will count toward the goal. The MBE or WBE bidder shall list itself along with any MBE or WBE subcontractors, if any, in order to receive credit toward the goals.

For example, on a proposed contract, the WBE goal is 10%, and the MBE goal is 8%. A WBE bidder puts in a bid where they will perform 40% of the contract work and have a WBE subcontractor which will perform another 5% of the work. Together the two WBE firms

submit on the *Listing of MBE and WBE Subcontractors* a value of 45% of the contract which fulfills the WBE goal. The 8% MBE goal shall be obtained through MBE participation with MBE certified subcontractors or documented through a good faith effort. It should be noted that you cannot combine the two goals to meet an overall value. The two goals shall remain separate.

MBE/WBE prime contractors shall also follow Sections A and B listed under *Listing of MBE and WBE Subcontractor* just as a non-MBE/WBE bidder would.

Written Documentation – Letter of Intent

The bidder shall submit written documentation for each MBE/WBE that will be used to meet the MBE and WBE goals of the contract, indicating the bidder's commitment to use the MBE/WBE in the contract. This documentation shall be submitted on the Department's form titled *Letter of Intent*.

The documentation shall be received in the office of the State Contractor Utilization Engineer or at DBE@ncdot.gov no later than 10:00 a.m. of the sixth calendar day following opening of bids, unless the sixth day falls on an official state holiday. In that situation, it is due in the office of the State Contractor Utilization Engineer no later than 10:00 a.m. on the next official state business day.

If the bidder fails to submit the Letter of Intent from each committed MBE and WBE to be used toward the MBE and WBE goals, or if the form is incomplete (i.e. both signatures are not present), the MBE/WBE participation will not count toward meeting the MBE/WBE goal. If the lack of this participation drops the commitment below either the MBE or WBE goal, the Contractor shall submit evidence of good faith efforts for the goal not met, completed in its entirety, to the State Contractor Utilization Engineer or DBE@ncdot.gov no later than 10:00 a.m. on the eighth calendar day following opening of bids, unless the eighth day falls on an official state holiday. In that situation, it is due in the office of the State Contractor Utilization Engineer no later than 10:00 a.m. on the next official state business day.

Banking MBE/WBE Credit

If the bid of the lowest responsive bidder exceeds \$500,000 and if the committed MBE/WBE participation submitted by Letter of Intent exceeds the algebraic sum of the MBE or WBE goal by \$1,000 or more, the excess will be placed on deposit by the Department for future use by the bidder. Separate accounts will be maintained for MBE and WBE participation and these may accumulate for a period not to exceed 24 months.

When the apparent lowest responsive bidder fails to submit sufficient participation by MBE firms to meet the contract goal, as part of the good faith effort, the Department will consider allowing the bidder to withdraw funds to meet the MBE goal as long as there are adequate funds available from the bidder's MBE bank account.

When the apparent lowest responsive bidder fails to submit sufficient participation by WBE firms to meet the contract goal, as part of the good faith effort, the Department will consider allowing the bidder to withdraw funds to meet the WBE goal as long as there are adequate funds available from the bidder's WBE bank account.

Submission of Good Faith Effort

If the bidder fails to meet or exceed either the MBE or the WBE goal, the apparent lowest responsive bidder shall submit to the Department documentation of adequate good faith efforts made to reach that specific goal(s).

A hard copy and an electronic copy of this information shall be received in the office of the State Contractor Utilization Engineer or at DBE@ncdot.gov no later than 10:00 a.m. on the sixth calendar day following opening of bids unless the sixth day falls on an official state holiday. In that situation, it would be due in the office of the State Contractor Utilization Engineer no later than 10:00 a.m. on the next official state business day. If the contractor cannot send the information electronically, then one complete set and 9 copies of this information shall be received under the same time constraints above.

Note: Where the information submitted includes repetitious solicitation letters, it will be acceptable to submit a representative letter along with a distribution list of the firms that were solicited. Documentation of MBE/WBE quotations shall be a part of the good faith effort submittal. This documentation may include written subcontractor quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

Consideration of Good Faith Effort for Projects with MBE/WBE Goals More Than Zero

Adequate good faith efforts mean that the bidder took all necessary and reasonable steps to achieve the goal which, by their scope, intensity, and appropriateness, could reasonably be expected to obtain sufficient MBE/WBE participation. Adequate good faith efforts also mean that the bidder actively and aggressively sought MBE/WBE participation. Mere *pro forma* efforts are not considered good faith efforts.

The Department will consider the quality, quantity, and intensity of the different kinds of efforts a bidder has made. Listed below are examples of the types of actions a bidder will take in making a good faith effort to meet the goals and are not intended to be exclusive or exhaustive, nor is it intended to be a mandatory checklist.

- (A) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising, written notices, use of verifiable electronic means through the use of the NCDOT Directory of Transportation Firms) the interest of all certified MBEs/WBEs that are also prequalified subcontractors. The bidder must solicit this interest within at least 10 days prior to bid opening to allow the MBEs/WBEs to respond to the solicitation. Solicitation shall provide the opportunity to MBEs/WBEs within the Division and surrounding Divisions where the project is located. The bidder must determine with certainty if the MBEs/WBEs are interested by taking appropriate steps to follow up initial solicitations.

- (B) Selecting portions of the work to be performed by MBEs/WBEs in order to increase the likelihood that the MBE and WBE goals will be achieved.
- (1) Where appropriate, break out contract work items into economically feasible units to facilitate MBE/WBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
 - (2) Negotiate with subcontractors to assume part of the responsibility to meet the contract MBE/WBE goals when the work to be sublet includes potential for MBE/WBE participation (2nd and 3rd tier subcontractors).
- (C) Providing interested certified MBEs/WBEs that are also prequalified subcontractors with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
- (D) (1) Negotiating in good faith with interested MBEs/WBEs. It is the bidder's responsibility to make a portion of the work available to MBE/WBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available MBE/WBE subcontractors and suppliers, so as to facilitate MBE/WBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of MBEs/WBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for MBEs/WBEs to perform the work.
- (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including MBE/WBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using MBEs/WBEs is not in itself sufficient reason for a bidder's failure to meet the contract MBE or WBE goals, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidding contractors are not, however, required to accept higher quotes from MBEs/WBEs if the price difference is excessive or unreasonable.
- (E) Not rejecting MBEs/WBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associates and political or social affiliations (for example, union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
- (F) Making efforts to assist interested MBEs/WBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or bidder.

- (G) Making efforts to assist interested MBEs/WBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (H) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; Federal, State, and local minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of MBEs/WBEs. Contact within 7 days from the bid opening the Business Opportunity and Work Force Development Unit at DBE@ncdot.gov to give notification of the bidder's inability to get MBE or WBE quotes.
- (I) Any other evidence that the bidder submits which shows that the bidder has made reasonable good faith efforts to meet the MBE and WBE goal.

In addition, the Department may take into account the following:

- (1) Whether the bidder's documentation reflects a clear and realistic plan for achieving the MBE and WBE goals.
- (2) The bidders' past performance in meeting the MBE and WBE goals.
- (3) The performance of other bidders in meeting the MBE and WBE goals. For example, when the apparent successful bidder fails to meet the goals, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts the apparent successful bidder could have met the goals. If the apparent successful bidder fails to meet the MBE and WBE goals, but meets or exceeds the average MBE and WBE participation obtained by other bidders, the Department may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made a good faith effort.

If the Department does not award the contract to the apparent lowest responsive bidder, the Department reserves the right to award the contract to the next lowest responsive bidder that can satisfy to the Department that the MBE and WBE goals can be met or that an adequate good faith effort has been made to meet the MBE and WBE goals.

Non-Good Faith Appeal

The State Contractual Services Engineer will notify the contractor verbally and in writing of non-good faith. A contractor may appeal a determination of non-good faith made by the Goal Compliance Committee. If a contractor wishes to appeal the determination made by the Committee, they shall provide written notification to the State Contractual Services Engineer or at DBE@ncdot.gov. The appeal shall be made within 2 business days of notification of the determination of non-good faith.

Counting MBE/WBE Participation Toward Meeting MBE/WBE Goals**(A) Participation**

The total dollar value of the participation by a committed MBE/WBE will be counted toward the contract goal requirements. The total dollar value of participation by a committed MBE/WBE will be based upon the value of work actually performed by the MBE/WBE and the actual payments to MBE/WBE firms by the Contractor.

(B) Joint Checks

Prior notification of joint check use shall be required when counting MBE/WBE participation for services or purchases that involves the use of a joint check. Notification shall be through submission of Form JC-1 (*Joint Check Notification Form*) and the use of joint checks shall be in accordance with the Department's Joint Check Procedures.

(C) Subcontracts (Non-Trucking)

A MBE/WBE may enter into subcontracts. Work that a MBE subcontracts to another MBE firm may be counted toward the MBE contract goal requirement. The same holds for work that a WBE subcontracts to another WBE firm. Work that a MBE subcontracts to a non-MBE firm does not count toward the MBE contract goal requirement. Again, the same holds true for the work that a WBE subcontracts to a non-WBE firm. If a MBE or WBE contractor or subcontractor subcontracts a significantly greater portion of the work of the contract than would be expected on the basis of standard industry practices, it shall be presumed that the MBE or WBE is not performing a commercially useful function. The MBE/WBE may present evidence to rebut this presumption to the Department. The Department's decision on the rebuttal of this presumption may be subject to review by the Office of Inspector General, NCDOT.

(D) Joint Venture

When a MBE or WBE performs as a participant in a joint venture, the Contractor may count toward its contract goal requirement a portion of the total value of participation with the MBE or WBE in the joint venture, that portion of the total dollar value being a distinct clearly defined portion of work that the MBE or WBE performs with its forces.

(E) Suppliers

A contractor may count toward its MBE or WBE requirement 60 percent of its expenditures for materials and supplies required to complete the contract and obtained from a MBE or WBE regular dealer and 100 percent of such expenditures from a MBE or WBE manufacturer.

(F) Manufacturers and Regular Dealers

A contractor may count toward its MBE or WBE requirement the following expenditures to MBE/WBE firms that are not manufacturers or regular dealers:

- (1) The fees or commissions charged by a MBE/WBE firm for providing a *bona fide* service, such as professional, technical, consultant, or managerial services, or for providing bonds or insurance specifically required for the performance of a DOT-assisted contract, provided the fees or commissions are determined to be reasonable and not excessive as compared with fees and commissions customarily allowed for similar services.
- (2) With respect to materials or supplies purchased from a MBE/WBE, which is neither a manufacturer nor a regular dealer, count the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site (but not the cost of the materials and supplies themselves), provided the fees are determined to be reasonable and not excessive as compared with fees customarily allowed for similar services.

Commercially Useful Function**(A) MBE/WBE Utilization**

The Contractor may count toward its contract goal requirement only expenditures to MBEs and WBEs that perform a commercially useful function in the work of a contract. A MBE/WBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the MBE/WBE shall also be responsible with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material and installing (where applicable) and paying for the material itself. To determine whether a MBE/WBE is performing a commercially useful function, the Department will evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the MBE/WBE credit claimed for its performance of the work, and any other relevant factors.

(B) MBE/WBE Utilization in Trucking

The following factors will be used to determine if a MBE or WBE trucking firm is performing a commercially useful function:

- (1) The MBE/WBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract, and there shall not be a contrived arrangement for the purpose of meeting the MBE or WBE goal.

- (2) The MBE/WBE shall itself own and operate at least one fully licensed, insured, and operational truck used on the contract.
- (3) The MBE/WBE receives credit for the total value of the transportation services it provides on the contract using trucks it owns, insures, and operates using drivers it employs.
- (4) The MBE may subcontract the work to another MBE firm, including an owner-operator who is certified as a MBE. The same holds true that a WBE may subcontract the work to another WBE firm, including an owner-operator who is certified as a WBE. When this occurs, the MBE or WBE who subcontracts work receives credit for the total value of the transportation services the subcontracted MBE or WBE provides on the contract. It should be noted that every effort shall be made by MBE and WBE contractors to subcontract to the same certification (i.e., MBEs to MBEs and WBEs to WBEs), in order to fulfill the goal requirement. This, however, may not always be possible due to the limitation of firms in the area. If the MBE or WBE firm shows a good faith effort has been made to reach out to similarly certified transportation service providers and there is no interest or availability, and they can get assistance from other certified providers, the Engineer will not hold the prime liable for meeting the goal.
- (5) The MBE/WBE may also subcontract the work to a non-MBE/WBE firm, including from an owner-operator. The MBE/WBE who subcontracts the work to a non-MBE/WBE is entitled to credit for the total value of transportation services provided by the non-MBE/WBE subcontractor not to exceed the value of transportation services provided by MBE/WBE-owned trucks on the contract. Additional participation by non-MBE/WBE subcontractors receives credit only for the fee or commission it receives as a result of the subcontract arrangement. The value of services performed under subcontract agreements between the MBE/WBE and the Contractor will not count towards the MBE/WBE contract requirement.
- (6) A MBE/WBE may lease truck(s) from an established equipment leasing business open to the general public. The lease must indicate that the MBE/WBE has exclusive use of and control over the truck. This requirement does not preclude the leased truck from working for others during the term of the lease with the consent of the MBE/WBE, so long as the lease gives the MBE/WBE absolute priority for use of the leased truck. This type of lease may count toward the MBE/WBE's credit as long as the driver is under the MBE/WBE's payroll.
- (7) Subcontracted/leased trucks shall display clearly on the dashboard the name of the MBE/WBE that they are subcontracted/leased to and their own company name if it is not identified on the truck itself. Magnetic door signs are not permitted.

MBE/WBE Replacement

When a Contractor has relied on a commitment to a MBE or WBE firm (or an approved substitute MBE or WBE firm) to meet all or part of a contract goal requirement, the contractor shall not terminate the MBE/WBE for convenience. This includes, but is not limited to, instances in which

the Contractor seeks to perform the work of the terminated subcontractor with another MBE/WBE subcontractor, a non-MBE/WBE subcontractor, or with the Contractor's own forces or those of an affiliate. A MBE/WBE may only be terminated after receiving the Engineer's written approval based upon a finding of good cause for the termination. The prime contractor must give the MBE/WBE firm five (5) calendar days to respond to the prime contractor's notice of termination and advise the prime contractor and the Department of the reasons, if any, why the firm objects to the proposed termination of its subcontract and why the Department should not approve the action. All requests for replacement of a committed MBE/WBE firm shall be submitted to the Engineer for approval on Form RF-1 (*Replacement Request*). If the Contractor fails to follow this procedure, the Contractor may be disqualified from further bidding for a period of up to 6 months.

The Contractor shall comply with the following for replacement of a committed MBE/WBE:

(A) Performance Related Replacement

When a committed MBE is terminated for good cause as stated above, an additional MBE that was submitted at the time of bid may be used to fulfill the MBE commitment. The same holds true if a committed WBE is terminated for good cause, an additional WBE that was submitted at the time of bid may be used to fulfill the WBE goal. A good faith effort will only be required for removing a committed MBE/WBE if there were no additional MBEs/WBEs submitted at the time of bid to cover the same amount of work as the MBE/WBE that was terminated.

If a replacement MBE/WBE is not found that can perform at least the same amount of work as the terminated MBE/WBE, the Contractor shall submit a good faith effort documenting the steps taken. Such documentation shall include, but not be limited to, the following:

- (1) Copies of written notification to MBEs/WBEs that their interest is solicited in contracting the work defaulted by the previous MBE/WBE or in subcontracting other items of work in the contract.
- (2) Efforts to negotiate with MBEs/WBEs for specific subbids including, at a minimum:
 - (a) The names, addresses, and telephone numbers of MBEs/WBEs who were contacted.
 - (b) A description of the information provided to MBEs/WBEs regarding the plans and specifications for portions of the work to be performed.
- (3) A list of reasons why MBE/WBE quotes were not accepted.
- (4) Efforts made to assist the MBEs/WBEs contacted, if needed, in obtaining bonding or insurance required by the Contractor.

(B) Decertification Replacement

- (1) When a committed MBE/WBE is decertified by the Department after the SAF (*Subcontract Approval Form*) has been received by the Department, the

Department will not require the Contractor to solicit replacement MBE/WBE participation equal to the remaining work to be performed by the decertified firm. The participation equal to the remaining work performed by the decertified firm will count toward the contract goal requirement.

- (2) When a committed MBE/WBE is decertified prior to the Department receiving the SAF (*Subcontract Approval Form*) for the named MBE/WBE firm, the Contractor shall take all necessary and reasonable steps to replace the MBE/WBE subcontractor with another similarly certified MBE/WBE subcontractor to perform at least the same amount of work to meet the MBE/WBE goal requirement. If a MBE/WBE firm is not found to do the same amount of work, a good faith effort must be submitted to NCDOT (see A herein for required documentation).

Changes in the Work

When the Engineer makes changes that result in the reduction or elimination of work to be performed by a committed MBE/WBE, the Contractor will not be required to seek additional participation. When the Engineer makes changes that result in additional work to be performed by a MBE/WBE based upon the Contractor's commitment, the MBE/WBE shall participate in additional work to the same extent as the MBE/WBE participated in the original contract work.

When the Engineer makes changes that result in extra work, which has more than a minimal impact on the contract amount, the Contractor shall seek additional participation by MBEs/WBEs unless otherwise approved by the Engineer.

When the Engineer makes changes that result in an alteration of plans or details of construction, and a portion or all of the work had been expected to be performed by a committed MBE/WBE, the Contractor shall seek participation by MBEs/WBEs unless otherwise approved by the Engineer.

When the Contractor requests changes in the work that result in the reduction or elimination of work that the Contractor committed to be performed by a MBE/WBE, the Contractor shall seek additional participation by MBEs/WBEs equal to the reduced MBE/WBE participation caused by the changes.

Reports and Documentation

A SAF (*Subcontract Approval Form*) shall be submitted for all work which is to be performed by a MBE/WBE subcontractor. The Department reserves the right to require copies of actual subcontract agreements involving MBE/WBE subcontractors.

When using transportation services to meet the contract commitment, the Contractor shall submit a proposed trucking plan in addition to the SAF. The plan shall be submitted prior to beginning construction on the project. The plan shall include the names of all trucking firms proposed for use, their certification type(s), the number of trucks owned by the firm, as well as the individual truck identification numbers, and the line item(s) being performed.

Within 30 calendar days of entering into an agreement with a MBE/WBE for materials, supplies or services, not otherwise documented by the SAF as specified above, the Contractor shall furnish the Engineer a copy of the agreement. The documentation shall also indicate the percentage (60% or 100%) of expenditures claimed for MBE/WBE credit.

Reporting Minority and Women Business Enterprise Participation

The Contractor shall provide the Engineer with an accounting of payments made to all MBE and WBE firms, including material suppliers and contractors at all levels (prime, subcontractor, or second tier subcontractor). This accounting shall be furnished to the Engineer for any given month by the end of the following month. Failure to submit this information accordingly may result in the following action:

- (A) Withholding of money due in the next partial pay estimate; or
- (B) Removal of an approved contractor from the prequalified bidders' list or the removal of other entities from the approved subcontractors list.

While each contractor (prime, subcontractor, 2nd tier subcontractor) is responsible for accurate accounting of payments to MBEs/WBEs, it shall be the prime contractor's responsibility to report all monthly and final payment information in the correct reporting manner.

Failure on the part of the Contractor to submit the required information in the time frame specified may result in the disqualification of that contractor and any affiliate companies from further bidding until the required information is submitted.

Failure on the part of any subcontractor to submit the required information in the time frame specified may result in the disqualification of that contractor and any affiliate companies from being approved for work on future DOT projects until the required information is submitted.

Contractors reporting transportation services provided by non-MBE/WBE lessees shall evaluate the value of services provided during the month of the reporting period only.

At any time, the Engineer can request written verification of subcontractor payments.

The Contractor shall report the accounting of payments through the Department's Payment Tracking System.

Failure to Meet Contract Requirements

Failure to meet contract requirements in accordance with Subarticle 102-15(J) of the *2018 Standard Specifications* may be cause to disqualify the Contractor.

CONTRACTOR'S LICENSE REQUIREMENTS:

(7-1-95)

102-14

SP1 G88

If the successful bidder does not hold the proper license to perform any plumbing, heating, air conditioning, or electrical work in this contract, he will be required to sublet such work to a contractor properly licensed in accordance with *Article 2 of Chapter 87 of the General Statutes* (licensing of heating, plumbing, and air conditioning contractors) and *Article 4 of Chapter 87 of the General Statutes* (licensing of electrical contractors).

COOPERATION BETWEEN CONTRACTORS:

(7-1-95)

105-7

SP1 G133

The Contractor's attention is directed to Article 105-7 of the *2018 Standard Specifications*.

15B.13.29 New Hanover (DC00204) was let on January 18, 2018 and construction is anticipated to be complete on March 16, 2018. 15B.13.29 is located adjacent to Maps #1 thru #5.

15BPR.15 New Hanover (C204119) is anticipated to be let on February 20, 2018 and is located adjacent to Maps #1 thru #5.

16-16066-01A (NCDOT Roadway Lighting Construction) is currently under construction and is located adjacent to Maps #1 thru #5.

I-5760 New Hanover (C203868) is currently under construction, located adjacent to Maps #10, & #12 thru #16, and located in the vicinity of Maps #17, #18, #34 thru #39, #48, & #49.

PAV-HHA-1217 (City of Wilmington's Central College Trail) is anticipated to begin construction in March 2018 and complete construction in October 2018. PAV-HHA-1217 is located adjacent to Maps #8 & #9.

U-3338B New Hanover (C203772) is currently under construction and is located in the vicinity of Maps #41 thru #47.

U-4902D New Hanover (C202280) is anticipated to be let on October 16, 2018, located adjacent to Maps #57 thru #60, and is located in the vicinity of Maps #19 & #20.

The Contractor on this project shall cooperate with the Contractor working within or adjacent to the limits of this project to the extent that the work can be carried out to the best advantage of all concerned.

OUTSOURCING OUTSIDE THE USA:

(9-21-04) (Rev. 5-16-06)

SP1 G150

All work on consultant contracts, services contracts, and construction contracts shall be performed in the United States of America. No work shall be outsourced outside of the United States of America.

Outsourcing for the purpose of this provision is defined as the practice of subcontracting labor, work, services, staffing, or personnel to entities located outside of the United States.

The North Carolina Secretary of Transportation shall approve exceptions to this provision in writing.

EROSION AND SEDIMENT CONTROL/STORMWATER CERTIFICATION:

(1-16-07) (Rev 11-22-16)

105-16, 225-2, 16

SP1 G180

General

Schedule and conduct construction activities in a manner that will minimize soil erosion and the resulting sedimentation and turbidity of surface waters. Comply with the requirements herein regardless of whether or not a National Pollution discharge Elimination System (NPDES) permit for the work is required.

Establish a chain of responsibility for operations and subcontractors' operations to ensure that the *Erosion and Sediment Control/Stormwater Pollution Prevention Plan* is implemented and maintained over the life of the contract.

- (A) *Certified Supervisor* - Provide a certified Erosion and Sediment Control/Stormwater Supervisor to manage the Contractor and subcontractor operations, insure compliance with Federal, State and Local ordinances and regulations, and manage the Quality Control Program.
- (B) *Certified Foreman* - Provide a certified, trained foreman for each construction operation that increases the potential for soil erosion or the possible sedimentation and turbidity of surface waters.
- (C) *Certified Installer* - Provide a certified installer to install or direct the installation for erosion or sediment/stormwater control practices.
- (D) *Certified Designer* - Provide a certified designer for the design of the erosion and sediment control/stormwater component of reclamation plans and, if applicable, for the design of the project erosion and sediment control/stormwater plan.

Roles and Responsibilities

- (A) *Certified Erosion and Sediment Control/Stormwater Supervisor* - The Certified Supervisor shall be Level II and responsible for ensuring the erosion and sediment control/stormwater plan is adequately implemented and maintained on the project and for conducting the quality control program. The Certified Supervisor shall be on the project within 24 hours notice from initial exposure of an erodible surface to the project's final acceptance. Perform the following duties:
 - (1) *Manage Operations* - Coordinate and schedule the work of subcontractors so that erosion and sediment control/stormwater measures are fully executed for each operation and in a timely manner over the duration of the contract.
 - (a) Oversee the work of subcontractors so that appropriate erosion and sediment control/stormwater preventive measures are conformed to at each stage of the work.
 - (b) Prepare the required National Pollutant Discharge Elimination System (NPDES) Inspection Record and submit to the Engineer.

- (c) Attend all weekly or monthly construction meetings to discuss the findings of the NPDES inspection and other related issues.
 - (d) Implement the erosion and sediment control/stormwater site plans requested.
 - (e) Provide any needed erosion and sediment control/stormwater practices for the Contractor's temporary work not shown on the plans, such as, but not limited to work platforms, temporary construction, pumping operations, plant and storage yards, and cofferdams.
 - (f) Acquire applicable permits and comply with requirements for borrow pits, dewatering, and any temporary work conducted by the Contractor in jurisdictional areas.
 - (g) Conduct all erosion and sediment control/stormwater work in a timely and workmanlike manner.
 - (h) Fully perform and install erosion and sediment control/stormwater work prior to any suspension of the work.
 - (i) Coordinate with Department, Federal, State and Local Regulatory agencies on resolution of erosion and sediment control/stormwater issues due to the Contractor's operations.
 - (j) Ensure that proper cleanup occurs from vehicle tracking on paved surfaces or any location where sediment leaves the Right-of-Way.
 - (k) Have available a set of erosion and sediment control/stormwater plans that are initialed and include the installation date of Best Management Practices. These practices shall include temporary and permanent groundcover and be properly updated to reflect necessary plan and field changes for use and review by Department personnel as well as regulatory agencies.
- (2) Requirements set forth under the NPDES Permit - The Department's NPDES Stormwater permit (NCS000250) outlines certain objectives and management measures pertaining to construction activities. The permit references *NCG010000, General Permit to Discharge Stormwater* under the NPDES, and states that the Department shall incorporate the applicable requirements into its delegated Erosion and Sediment Control Program for construction activities disturbing one or more acres of land. The Department further incorporates these requirements on all contracted bridge and culvert work at jurisdictional waters, regardless of size. Some of the requirements are, but are not limited to:
- (a) Control project site waste to prevent contamination of surface or ground waters of the state, i.e. from equipment operation/maintenance, construction materials, concrete washout, chemicals, litter, fuels, lubricants, coolants, hydraulic fluids, any other petroleum products, and sanitary waste.
 - (b) Inspect erosion and sediment control/stormwater devices and stormwater discharge outfalls at least once every 7 calendar days and within 24 hours after a rainfall event of 0.5 inch that occurs within a 24 hour period. Additional monitoring may be required at the discretion of Division of Water Resources personnel if the receiving stream is 303(d) listed for turbidity and the project has had documented problems managing turbidity.

- (c) Maintain an onsite rain gauge or use the Department's Multi-Sensor Precipitation Estimate website to maintain a daily record of rainfall amounts and dates.
 - (d) Maintain erosion and sediment control/stormwater inspection records for review by Department and Regulatory personnel upon request.
 - (e) Implement approved reclamation plans on all borrow pits, waste sites and staging areas.
 - (f) Maintain a log of turbidity test results as outlined in the Department's Procedure for Monitoring Borrow Pit Discharge.
 - (g) Provide secondary containment for bulk storage of liquid materials.
 - (h) Provide training for employees concerning general erosion and sediment control/stormwater awareness, the Department's NPDES Stormwater Permit NCS000250 requirements, and the applicable requirements of the *General Permit, NCG010000*.
 - (i) Report violations of the NPDES permit to the Engineer immediately who will notify the Division of Water Quality Regional Office within 24 hours of becoming aware of the violation.
- (3) Quality Control Program - Maintain a quality control program to control erosion, prevent sedimentation and follow provisions/conditions of permits. The quality control program shall:
- (a) Follow permit requirements related to the Contractor and subcontractors' construction activities.
 - (b) Ensure that all operators and subcontractors on site have the proper erosion and sediment control/stormwater certification.
 - (c) Notify the Engineer when the required certified erosion and sediment control/stormwater personnel are not available on the job site when needed.
 - (d) Conduct the inspections required by the NPDES permit.
 - (e) Take corrective actions in the proper timeframe as required by the NPDES permit for problem areas identified during the NPDES inspections.
 - (f) Incorporate erosion control into the work in a timely manner and stabilize disturbed areas with mulch/seed or vegetative cover on a section-by-section basis.
 - (g) Use flocculants approved by state regulatory authorities where appropriate and where required for turbidity and sedimentation reduction.
 - (h) Ensure proper installation and maintenance of temporary erosion and sediment control devices.
 - (i) Remove temporary erosion or sediment control devices when they are no longer necessary as agreed upon by the Engineer.
 - (j) The Contractor's quality control and inspection procedures shall be subject to review by the Engineer. Maintain NPDES inspection records and make records available at all times for verification by the Engineer.
- (B) *Certified Foreman* - At least one Certified Foreman shall be onsite for each type of work listed herein during the respective construction activities to control erosion, prevent sedimentation and follow permit provisions:

- (1) Foreman in charge of grading activities
- (2) Foreman in charge of bridge or culvert construction over jurisdictional areas
- (3) Foreman in charge of utility activities

The Contractor may request to use the same person as the Level II Supervisor and Level II Foreman. This person shall be onsite whenever construction activities as described above are taking place. This request shall be approved by the Engineer prior to work beginning.

The Contractor may request to name a single Level II Foreman to oversee multiple construction activities on small bridge or culvert replacement projects. This request shall be approved by the Engineer prior to work beginning.

- (C) *Certified Installers* - Provide at least one onsite, Level I Certified Installer for each of the following erosion and sediment control/stormwater crew:

- (1) Seeding and Mulching
- (2) Temporary Seeding
- (3) Temporary Mulching
- (4) Sodding
- (5) Silt fence or other perimeter erosion/sediment control device installations
- (6) Erosion control blanket installation
- (7) Hydraulic tackifier installation
- (8) Turbidity curtain installation
- (9) Rock ditch check/sediment dam installation
- (10) Ditch liner/matting installation
- (11) Inlet protection
- (12) Riprap placement
- (13) Stormwater BMP installations (such as but not limited to level spreaders, retention/detention devices)
- (14) Pipe installations within jurisdictional areas

If a Level I *Certified Installer* is not onsite, the Contractor may substitute a Level II Foreman for a Level I Installer, provided the Level II Foreman is not tasked to another crew requiring Level II Foreman oversight.

- (D) *Certified Designer* - Include the certification number of the Level III-B Certified Designer on the erosion and sediment control/stormwater component of all reclamation plans and if applicable, the certification number of the Level III-A Certified Designer on the design of the project erosion and sediment control/stormwater plan.

Preconstruction Meeting

Furnish the names of the *Certified Erosion and Sediment Control/Stormwater Supervisor*, *Certified Foremen*, *Certified Installers* and *Certified Designer* and notify the Engineer of changes in certified personnel over the life of the contract within 2 days of change.

Ethical Responsibility

Any company performing work for the North Carolina Department of Transportation has the ethical responsibility to fully disclose any reprimand or dismissal of an employee resulting from improper testing or falsification of records.

Revocation or Suspension of Certification

Upon recommendation of the Chief Engineer to the certification entity, certification for *Supervisor, Certified Foremen, Certified Installers* and *Certified Designer* may be revoked or suspended with the issuance of an *Immediate Corrective Action (ICA), Notice of Violation (NOV)*, or *Cease and Desist Order* for erosion and sediment control/stormwater related issues.

The Chief Engineer may recommend suspension or permanent revocation of certification due to the following:

- (A) Failure to adequately perform the duties as defined within this certification provision.
- (B) Issuance of an ICA, NOV, or Cease and Desist Order.
- (C) Failure to fully perform environmental commitments as detailed within the permit conditions and specifications.
- (D) Demonstration of erroneous documentation or reporting techniques.
- (E) Cheating or copying another candidate's work on an examination.
- (F) Intentional falsification of records.
- (G) Directing a subordinate under direct or indirect supervision to perform any of the above actions.
- (H) Dismissal from a company for any of the above reasons.
- (I) Suspension or revocation of one's certification by another entity.

Suspension or revocation of a certification will be sent by certified mail to the certificant and the Corporate Head of the company that employs the certificant.

A certificant has the right to appeal any adverse action which results in suspension or permanent revocation of certification by responding, in writing, to the Chief Engineer within 10 calendar days after receiving notice of the proposed adverse action.

Chief Engineer
1536 Mail Service Center
Raleigh, NC 27699-1536

Failure to appeal within 10 calendar days will result in the proposed adverse action becoming effective on the date specified on the certified notice. Failure to appeal within the time specified will result in a waiver of all future appeal rights regarding the adverse action taken. The certificant will not be allowed to perform duties associated with the certification during the appeal process.

The Chief Engineer will hear the appeal and make a decision within 7 days of hearing the appeal. Decision of the Chief Engineer will be final and will be made in writing to the certificant.

If a certification is temporarily suspended, the certificant shall pass any applicable written examination and any proficiency examination, at the conclusion of the specified suspension period, prior to having the certification reinstated.

Measurement and Payment

Certified Erosion and Sediment Control/Stormwater Supervisor, Certified Foremen, Certified Installers and Certified Designer will be incidental to the project for which no direct compensation will be made.

PROCEDURE FOR MONITORING BORROW PIT DISCHARGE:

(2-20-07) (Rev. 3-19-13)

105-16, 230, 801

SP1 G181

Water discharge from borrow pit sites shall not cause surface waters to exceed 50 NTUs (nephelometric turbidity unit) in streams not designated as trout waters and 10 NTUs in streams, lakes or reservoirs designated as trout waters. For lakes and reservoirs not designated as trout waters, the turbidity shall not exceed 25 NTUs. If the turbidity exceeds these levels due to natural background conditions, the existing turbidity level shall not be increased.

If during any operating day, the downstream water quality exceeds the standard, the Contractor shall do all of the following:

- (A) Either cease discharge or modify the discharge volume or turbidity levels to bring the downstream turbidity levels into compliance, or
- (B) Evaluate the upstream conditions to determine if the exceedance of the standard is due to natural background conditions. If the background turbidity measurements exceed the standard, operation of the pit and discharge can continue as long as the stream turbidity levels are not increased due to the discharge.
- (C) Measure and record the turbidity test results (time, date and sampler) at all defined sampling locations 30 minutes after startup and at a minimum, one additional sampling of all sampling locations during that 24-hour period in which the borrow pit is discharging.
- (D) Notify DWQ within 24 hours of any stream turbidity standard exceedances that are not brought into compliance.

During the Environmental Assessment required by Article 230-4 of the *2018 Standard Specifications*, the Contractor shall define the point at which the discharge enters into the State's surface waters and the appropriate sampling locations. Sampling locations shall include points upstream and downstream from the point at which the discharge enters these waters. Upstream sampling location shall be located so that it is not influenced by backwater conditions and represents natural background conditions. Downstream sampling location shall be located at the point where complete mixing of the discharge and receiving water has occurred.

The discharge shall be closely monitored when water from the dewatering activities is introduced into jurisdictional wetlands. Any time visible sedimentation (deposition of sediment) on the wetland surface is observed, the dewatering activity will be suspended until turbidity levels in the stilling basin can be reduced to a level where sediment deposition does not occur. Staining of

wetland surfaces from suspended clay particles, occurring after evaporation or infiltration, does not constitute sedimentation. No activities shall occur in wetlands that adversely affect the functioning of a wetland. Visible sedimentation will be considered an indication of possible adverse impacts on wetland use.

The Engineer will perform independent turbidity tests on a random basis. These results will be maintained in a log within the project records. Records will include, at a minimum, turbidity test results, time, date and name of sampler. Should the Department's test results exceed those of the Contractor's test results, an immediate test shall be performed jointly with the results superseding the previous test results of both the Department and the Contractor.

The Contractor shall use the *NCDOT Turbidity Reduction Options for Borrow Pits Matrix*, available at http://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/fieldops/downloads/Files/TurbidityReductionOptionSheet.pdf to plan, design, construct, and maintain BMPs to address water quality standards. Tier I Methods include stilling basins which are standard compensatory BMPs. Other Tier I methods are noncompensatory and shall be used when needed to meet the stream turbidity standards. Tier II Methods are also noncompensatory and are options that may be needed for protection of rare or unique resources or where special environmental conditions exist at the site which have led to additional requirements being placed in the DWQ's 401 Certifications and approval letters, Isolated Wetland Permits, Riparian Buffer Authorization or a DOT Reclamation Plan's Environmental Assessment for the specific site. Should the Contractor exhaust all Tier I Methods on a site exclusive of rare or unique resources or special environmental conditions, Tier II Methods may be required by regulators on a case by case basis per supplemental agreement.

The Contractor may use cation exchange capacity (CEC) values from proposed site borings to plan and develop the bid for the project. CEC values exceeding 15 milliequivalents per 100 grams of soil may indicate a high potential for turbidity and should be avoided when dewatering into surface water is proposed.

No additional compensation for monitoring borrow pit discharge will be paid.

NOTES TO CONTRACTOR:

Map No. 1 (US 17 Bus. E/ US 76 E): Steel Beam Guardrail on EB outside shoulder along Bridge #7 Piers and 25 feet in advance of Piers shall contain Half Post Spacing.

Map No. 2 (US 17 Bus. W/ US 76 W): Contractor shall extend existing Steel Beam Guardrail 100 feet on WB Median shoulder.

Map No. 1 & 2 (US 17 Bus. E & W/ US 76 E & W): Contractor shall Remove & Replace Steel Beam Guardrail and Blocks within the limits of the existing Cape Fear Memorial Bridge Anchors (Bridge # 13). Existing Posts will be retained in current positions.

Map No. 1- 9: After clipping shoulders, the removal of earth/grass material shall be incidental to paving on those maps.

Map No. 6 - 9, 10 & 48: The Contractor shall install the wiring, loops and pavement markings according to the attached signal plans (or existing signal plans which will be provided at the Pre-Construction meeting).

All adjustments (Manholes, Meter or Valve Boxes) will be completed prior to milling or resurfacing.

Map No. 8, 9 & 50: The Contractor shall be aware that sections of these maps are within floodplain areas and milling is required to maintain existing elevations. See Typical Sections 6 & 9.

Map No. 11 - 55: State Forces will provide and complete all Shoulder Reconstruction, Borrow Excavation and Erosion Control items.

Map No. 6, 7 & 10: The Pavement Markings on US 421 & SR 1318 shall be remarked with Existing Lane Widths.

Map No. 10 (SR 1318 - Blue Clay Rd.): Contractor shall obtain a Right of Entry (ROE) agreement from the Railroad in order to perform any construction activities within the Railroad Right of Way. Contact should be made with:

Emily Yessick, E.I.
ARCADIS U.S., Inc. (CSX
consultant) 904-861-2874
Emily.yessick@arcadis.com

Refer to contract number **C204135** when contacting Ms. Yessick. The Contractor will need to account for ROE fees, insurance & flagging charges. All fees shall be incidental to all work completed under this contract. Contractor shall complete all paving in the Railroad Right of Way in a timely manner to avoid excessive flagging costs.

No equipment may be stored within Railroad Right of Way without Railroad's permission.

Map No. 56 (NC State Port): The Contractor will provide a minimum of 2 weeks' notice prior to starting work on the NC State Ports Authority. The site is an active port facility and coordinating with port personnel is necessary. Contact Barry Addertion, P.E. at (910) 251-5676.

All Patching Existing Pavement on State Port property will be in the range of 2 to 2.5 inches in depth.

All Maps: Excavation within 1,000 feet of a signalized intersection will require a one (1) week notification (prior to excavation) to the NCDOT Traffic Services Signal unit at telephone number (910) 341-2200. All traffic signal or detection cables must be located prior to excavation. Cost to replace or repair NCDOT signs, signals, or associated equipment shall be the responsibility of the Contractor.

PROJECT SPECIAL PROVISIONS**ROADWAY****SHOULDER RECONSTRUCTION PER SHOULDER MILE:**

(11-16-10) (Rev. 8-21-12)

560

SP1 R07FR

Description

This work consists of reconstructing each shoulder (including median shoulders as applicable) in accordance with Standard Drawing No. 560.01 and 560.02 of the *2018 Roadway Standard Drawings* except that the rate of slope and width will be as shown on typical section, or to the existing shoulder point, whichever is nearer, as long as the desired typical is achieved, and when completed, seeding and mulching. This work shall be performed immediately after the resurfacing operations are complete as directed by the Engineer.

Materials

The Contractor shall furnish all earth material necessary for the construction of the shoulders in accordance with Section 1019 of the *2018 Standard Specifications*. All soil is subject to test and acceptance or rejection by the Engineer.

Construction Methods

Obtain material from within the project limits or approved borrow source. Prior to adding borrow material, the existing shoulder shall be scarified to provide the proper bond and shall be compacted to the satisfaction of the Engineer.

Any excess material generated by the shoulder reconstruction shall be disposed of by the Contractor in an approved disposal site.

Measurement and Payment

Shoulder Reconstruction will be measured and paid as the actual number of miles of shoulders that have been reconstructed. Measurement will be made along the surface of each shoulder to the nearest 0.01 of a mile. Such price will include disposing of any excess material in an approved disposal site, and for all labor, tools, equipment, and incidentals necessary to complete the work.

Borrow Excavation will be paid in accordance with Section 230 of the *2018 Standard Specifications* for earth material furnished by the Contractor. The requirements of Article 104-5 of the *2018 Standard Specifications* pertaining to revised contract prices for overrunning minor items will not apply to the item of *Borrow Excavation*.

Incidental Stone Base will be measured and paid as provided in Article 545-6 of the *2018 Standard Specifications*.

Seeding and Mulching will be measured and paid as shown elsewhere in the contract documents.

Payment will be made under:

Pay Item

Shoulder Reconstruction
Borrow Excavation

Pay Unit

Shoulder Mile
Cubic Yard

SHOULDER RECONSTRUCTION PROCEDURE:

(7-1-95) (Rev. 10-15-13)

560

SP1 R10BR

Perform shoulder reconstruction immediately following paving operations and in no case allow paving operations to exceed shoulder operations by more than two weeks without written permission of the Engineer. Failure to meet this requirement shall be cause to cease paving operations until it can be met. Place final pavement marking after shoulder reconstruction.

Upon completion of shoulder reconstruction, remove construction signs and use on other projects or store at the county maintenance installation or as directed by the Engineer.

CONSTRUCTION SEQUENCE:

(7-1-95) (Rev. 8-21-12)

560

SP1 R34R

Pave each section of roadway begun in a continuous operation. Do not begin work on another section of roadway unless satisfactory progress is being made toward completion of intersections and all other required incidental work by satisfactorily furnishing additional paving equipment and personnel, except for milling and patching operations.

INCIDENTAL STONE BASE:

(7-1-95) (Rev.8-21-12)

545

SP5 R28R(Revised)

Description

Place incidental stone base on driveways, mailboxes, etc. prior to the next day's paving operation unless written permission is given by the Engineer.

Materials and Construction

Provide and place incidental stone base in accordance with Section 545 of the *2018 Standard Specifications*.

Measurement and Payment

Incidental Stone Base will be measured and paid in accordance with Article 545-6 of the *2018 Standard Specifications*.

SHOULDER WEDGE:

(9-20-11) (Rev. 8-21-12)

610

SP6 R03R

Revise the *2018 Standard Specifications* as follows:

Page 6-21, Article 610-8, SPREADING AND FINISHING, add the following after line 39:

Attach a device, mounted on screed of paving equipment, capable of constructing a shoulder wedge with an angle of 30 degrees plus or minus 4 degrees along the outside edge of the roadway,

measured from the horizontal plane in place after final compaction on the final surface course. Use an approved mechanical device which will form the asphalt mixture to produce a wedge with uniform texture, shape and density while automatically adjusting to varying heights.

Payment for use of this device will be incidental to the other pay items in the contract.

PRICE ADJUSTMENT - ASPHALT BINDER FOR PLANT MIX:

(11-21-00)

620

SP6 R25

Price adjustments for asphalt binder for plant mix will be made in accordance with Section 620 of the *2018 Standard Specifications*.

The base price index for asphalt binder for plant mix is **\$ 392.50** per ton.

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on **January 1, 2018**.

FINAL SURFACE TESTING NOT REQUIRED:

(5-18-04) (Rev. 2-16-16)

610

SP6 R45

Final surface testing is not required on this project in accordance with Section 610-13, *Final Surface Testing and Acceptance*.

RESURFACING EXISTING BRIDGES:

(7-1-95) (Rev. 8-21-12)

SP6 R61AR

The Contractor's attention is directed to the fact that he will be required to resurface the bridges on this project if directed by the Engineer.

Place the surface so as to follow a grade line set by the Engineer with the minimum thickness as shown on the sketch herein or as directed by the Engineer. State Forces will make all necessary repairs to the bridge floors prior to the time that the Contractor places the proposed surfacing. Give the Engineer at least 15 days' notice prior to the expected time to begin operations so that State Forces will have sufficient time to complete their work.

At all bridges that are not to be resurfaced, taper out the proposed resurfacing layer adjacent to the bridges to insure a proper tie-in with the bridge surface.

ASPHALT CONCRETE PLANT MIX PAVEMENTS:

(2-20-18)

610, 1012

SP6 R65

Revise the 2018 Standard Specifications as follows:

Page 6-17, Table 610-1, MIXING TEMPERATURE AT THE ASPHALT PLANT, replace with the following:

Binder Grade	JMF Temperature
PG 58-28; PG 64-22	250 - 290°F
PG 76-22	300 - 325°F

Page 6-17, Subarticle 610-3(C), Job Mix Formula (JMF), lines 38-39, delete the fourth paragraph.

Page 6-18, Subarticle 610-3(C), Job Mix Formula (JMF), line 12, replace “SF9.5A” with “S9.5B”.

Page 6-18, Table 610-3, MIX DESIGN CRITERIA, replace with the following:

Mix Type	Design ESALs millions ^A	Binder PG Grade ^B	Compaction Levels		Max. Rut Depth (mm)	Volumetric Properties				
			Gmm @			VMA % Min.	VTM %	VFA Min.-Max.	%Gmm @ N _{ini}	
			N _{ini}	N _{des}						
S4.75A	< 1	64 - 22	6	50	11.5	16.0	4.0 - 6.0	65 - 80	≤ 91.5	
S9.5B	0 - 3	64 - 22	6	50	9.5	16.0	3.0 - 5.0	70 - 80	≤ 91.5	
S9.5C	3 - 30	64 - 22	7	65	6.5	15.5	3.0 - 5.0	65 - 78	≤ 90.5	
S9.5D	> 30	76 - 22	8	100	4.5	15.5	3.0 - 5.0	65 - 78	≤ 90.0	
I19.0C	ALL	64 - 22	7	65	-	13.5	3.0 - 5.0	65 - 78	≤ 90.5	
B25.0C	ALL	64 - 22	7	65	-	12.5	3.0 - 5.0	65 - 78	≤ 90.5	
			Design Parameter				Design Criteria			
All Mix Types			Dust to Binder Ratio (P _{0.075} / P _{be})				0.6 - 1.4 ^C			
			Tensile Strength Ratio (TSR) ^D				85% Min. ^E			

A. Based on 20 year design traffic.

B. Volumetric Properties based on specimens compacted to N_{des} as modified by the Department.

C. Dust to Binder Ratio (P_{0.075} / P_{be}) for Type S4.75A is 1.0 - 2.0.

D. NCDOT-T-283 (No Freeze-Thaw cycle required).

E. TSR for Type S4.75A & B25.0C mixes is 80% minimum.

Page 6-19, Table 610-5, BINDER GRADE REQUIREMENTS (BASED ON RBR%), replace with the following:

Mix Type	%RBR ≤ 20%	21% ≤ %RBR ≤ 30%	%RBR > 30%
S4.75A, S9.5B, S9.5C, I19.0C, B25.0C	PG 64-22	PG 64-22 ^A	PG 58-28
S9.5D, OGFC	PG 76-22 ^B	n/a	n/a

Page 6-20, Table 610-6, PLACEMENT TEMPERATURES FOR ASPHALT, replace with the following:

TABLE 610-6 PLACEMENT TEMPERATURES FOR ASPHALT	
Asphalt Concrete Mix Type	Minimum Surface and Air Temperature
B25.0C	35°F
I19.0C	35°F
S4.75A, S9.5B, S9.5C	40°F ^A
S9.5D	50°F

A. If the mix contains any amount of RAS, The virgin binder shall be PG 58-28.

Page 6-23, Table 610-7, DENSITY REQUIREMENTS, replace with the following:

TABLE 610-7 DENSITY REQUIREMENTS	
Mix Type	Minimum % G _{mm} (Maximum Specific Gravity)
S4.75A	85.0 ^A
S9.5B	90.0
S9.5C, S9.5D, I19.0C, B25.0C	92.0

A. Compaction to the above specified density will be required when the S4.75A mix is applied at a rate of 100 lbs/sy or higher.

Page 6-32, Article 610-16 MEASUREMENT AND PAYMENT, replace with the following:

Pay Item	Pay Unit
Asphalt Concrete Base Course, Type B25.0C	Ton
Asphalt Concrete Intermediate Course, Type I19.0C	Ton
Asphalt Concrete Surface Course, Type S4.75A	Ton
Asphalt Concrete Surface Course, Type S9.5B	Ton
Asphalt Concrete Surface Course, Type S9.5C	Ton
Asphalt Concrete Surface Course, Type S9.5D	Ton

Page 10-30, Table 1012-1, AGGREGATE CONSENSUS PROPERTIES, replace with the following:

Mix Type	Coarse Aggregate Angularity^B	Fine Aggregate Angularity % Minimum	Sand Equivalent % Minimum	Flat and Elongated 5 : 1 Ratio % Maximum
<i>Test Method</i>	<i>ASTM D5821</i>	<i>AASHTO T 304</i>	<i>AASHTO T 176</i>	<i>ASTM D4791</i>
S4.75A; S9.5B	75 / -	40	40	-
S9.5C; I19.0C; B25.0C	95 / 90	45	45	10
S9.5D	100 / 100	45	50	10
OGFC	100 / 100	45	45	10
UBWC	100 / 85	45	45	10

A. Requirements apply to the design aggregate blend.

B. 95 / 90 denotes that 95% of the coarse aggregate has one fractured face and 90% has 2 or more fractured faces.

PAVEMENT DESIGN MIX TYPE MODIFICATIONS:

(2-20-18)

610

SP6 R66

Description

In an effort to reduce the number of asphalt concrete pavement mix types, the department has made the following changes:

Where the “Pavement Schedule” in the plans calls for Asphalt Concrete Surface Course Type SF9.5A, Asphalt Concrete Surface Course Type S9.5B shall be used.

Where the “Pavement Schedule” in the plans calls for either Asphalt Concrete Intermediate Course Type B, C or D, Asphalt Concrete Intermediate Course Type I19.0C shall be used.

Where the “Pavement Schedule” in the plans call for Asphalt Concrete Base Course Type B25.0B, Asphalt Concrete Base Course Type B25.0C shall be used.

In addition, see the project special provision entitled “Asphalt Concrete Plant Mix Pavements” contained elsewhere in the proposal.

Measurement and Payment

The pay items in this proposal reflects these changes. The pavement schedule in the plans will not be revised to reflect these changes.

PAVING INTERSECTIONS:

(7-1-95) (Rev. 8-21-12)

610

SP6 R67BR

Condition, prime, and surface all unpaved intersections back from the edge of the pavement on the main line of the project a minimum distance of 50 feet. The pavement placed in the intersections shall be of the same material and thickness placed on the mainline of the project.

Resurface all paved intersections back to the ends of the radii, or as directed by the Engineer.

Widen the pavement on curves as directed by the Engineer.

PAVING DRIVEWAYS AND MAILBOX TURNOUTS:

(8-21-12)

610

SP6 R70BR

Condition, prime, and surface all driveway and mailbox turnouts as directed by the Engineer. Place pavement on driveway and mailbox turnouts of the same material as used on the main line and in depths directed by the Engineer. Widen the pavement on curves as directed by the Engineer.

TRENCHING FOR BASE COURSE

5-26-09 (Rev. 6-09-15)

Div 3 - DDC

Perform all trenching necessary to place the asphalt concrete base course widening in accordance with the typical sections, at locations shown on the sketch maps, and as directed by the Engineer.

Trenching shall be done with a milling machine. The trench shall be the width noted on the Typical Sections +/- 0.1'. If the trench excavation exceeds the 0.1' tolerance, the Contractor will be required to backfill the trench with approved earth material at no cost to the Department and retrench to the proper width.

Perform the trenching for the base course on the same day that the base course is to be placed. If the base course cannot be placed on the same day the trench section is excavated, backfill the trench with earth material and compact it to the satisfaction of the Engineer. Once the trench is open, perform backfilling and re-opening of the trench at no cost to the Department.

The Contractor will be restricted to widening one side of the project at a time unless otherwise permitted by the Engineer. In widening, operate equipment and conduct operations in the same direction as the flow of traffic.

Compact the asphalt concrete base course in the widened areas using means and methods acceptable to the Engineer. Density testing will be performed in accordance with Section 10.3.4 of the *QMS Manual*.

The excavated material shall be placed directly into dump trucks & stock piled and/or hauled to an approved waste pit. Remove all excavated material from all drives to provide ingress and egress to abutting properties and from in front of mailboxes and paper boxes. Saw a neat edge and remove all asphalt and/or concrete driveways, and existing asphalt widening, as directed by the Engineer, to the width of the widening and dispose of any excavated concrete or asphalt materials. Properly reconnect driveways.

Upon completion of the paving operation, backfill the trench to the satisfaction of the Engineer. Properly dispose of any excess material remaining after this operation.

No direct payment will be made for trenching, sawing, and removal of driveways, depositing material on shoulder area, backfilling trench, or removal of spoil material, as the cost of this work shall be included in the contract unit price per ton for *Asphalt Concrete Base Course, Type*

_____.

ASPHALT CONCRETE SURFACE COURSE, TYPE xxx (Leveling Course):

(7-1-95) (Rev. 8-21-12)

610

SP6 R85R

Place a leveling course of *Asphalt Concrete Surface Course, Type ___* at locations shown on the sketch maps and as directed by the Engineer. The rate of this leveling course is not established but will be determined by allowing the screed to *drag* the high points of the section. It is anticipated that some map numbers will be leveled from beginning to end while others may only require a leveling course for short sections.

The Asphalt Concrete Surface Course, Type __ (Leveling Course) shall meet the requirements of Section 610 of the *2018 Standard Specifications* except payment will be made at the contract unit price per ton for *Asphalt Concrete Surface Course, Type __ (Leveling Course)*.

PATCHING EXISTING PAVEMENT (MILL):

(10-23-13)

DDC_REV

Description:

The Contractor's attention is directed to the fact that there are areas of existing pavement on this project that will require repair prior to resurfacing.

The Contractor shall patch the areas that, in the opinion of the Engineer, need repairing. The areas to be patched will be delineated by the Engineer prior to the Contractor performing repairs.

Construction Methods:

The patching shall consist of Asphalt Concrete Base Course, Asphalt Concrete Intermediate Course, or Asphalt Concrete Surface Course, or a combination of base, intermediate and surface course, and pavement removal, **as shown on the Summary of Quantities sheet** or as directed by the Engineer.

Patching of existing pavement shall include, but not be limited to, the milling of the existing pavement; the removal and disposal of pavement, base, and subgrade material as approved or directed by the Engineer; the coating of the area to be repaired with a tack coat; and the replacement of the removed material with asphalt plant mix.

Asphalt Concrete Base Course shall be placed in lifts not exceeding 5 1/2 inches. Compaction equipment suitable for compacting patches as small as 4 feet by 6 feet shall be utilized on each lift. Compaction pattern to achieve proper compaction shall be approved by the engineer.

The Contractor shall remove existing pavement at locations directed by the Engineer in accordance with Section 607 of the *Standard Specifications*.

The Contractor may be required to make multiple passes with the milling machine to achieve additional depth of the patch at the direction of the engineer. There will be no additional payment for additional passes as all work will be compensated at the unit price for the type of mill patching to be performed. The Contractor will utilize a maximum milling head width of 4 feet unless otherwise allowed by the Engineer.

The Contractor shall schedule his operations so that all areas where pavement has been removed will be repaired on the same day of the pavement removal, and all lanes of traffic shall be restored.

Method of Measurement:

The quantity of patching existing pavement to be paid for will be the actual number of tons of asphalt plant mix, complete in place, which has been used to make completed and accepted repairs. The asphalt plant mixed material will be measured by being weighed in trucks on certified platform scales or other certified weighing devices.

Basis of Payment:

The quantity of patching existing pavement, measured as provided above, will be paid for at the contract unit price per ton for the type of mill patching to be performed.

The above price and payment will be full compensation for all work covered by this provision, including but not limited to milling and disposal of pavement; furnishing and applying tack coat; furnishing, placing, and compacting of asphalt plant mix; furnishing of asphalt binder for the asphalt plant mix; and furnishing scales.

Any provisions included in the contract in the form of project special provisions or in any other form which provides for adjustments in compensation due to variations in the price of asphalt binder will not be applicable to payment for the work covered by this provision.

Patching Existing Pavement (Mill) will be considered a minor item.

Payment will be made under:

Pay Item	Pay Unit
Patching Existing Pavement (Mill)	Ton
Patching Existing Pavement I19.0C (Mill)	Ton
Patching Existing Pavement S9.5C (Mill)	Ton

PATCHING EXISTING PAVEMENT (FULL DEPTH):

(1-15-02) (Rev.11-20-12)

R6 R88 Rev.

Description

The Contractor's attention is directed to the fact that there are areas of existing pavement on this project that will require repair prior to resurfacing.

The Contractor shall patch the areas that, in the opinion of the Engineer, need repairing. The areas to be patched will be delineated by the Engineer prior to the Contractor performing repairs.

Construction Methods

The patching consists of Asphalt Concrete Base Course, Asphalt Concrete Intermediate Course, Asphalt Concrete Surface Course, or a combination of base, intermediate and surface course, and pavement removal, **as shown on the Summary of Quantities sheet** or as directed by the Engineer.

Patching of existing pavement shall include, but not be limited to, the cutting of the existing pavement to a neat vertical joint and uniform line; the removal and disposal of pavement, base, and subgrade material as approved or directed by the Engineer; the coating of the area to be repaired with a tack coat; and the replacement of the removed material with asphalt plant mix.

Asphalt Concrete Base Course shall be placed in lifts not exceeding 5.5 inches. Compaction equipment suitable for compacting patches as small as 4 feet by 6 feet shall be utilized on each lift. Compaction pattern to achieve proper compaction shall be approved by the engineer.

The Contractor shall remove existing pavement at locations directed by the Engineer in accordance with Section 250 of the *Standard Specifications*.

The Contractor shall schedule his operations so that all areas where pavement has been removed will be repaired on the same day of the pavement removal, and all lanes of traffic shall be restored.

Method of Measurement

The quantity of patching existing pavement to be paid for will be the actual number of tons of asphalt plant mix, complete in place, which has been used to make completed and accepted repairs. The asphalt plant mixed material will be measured by being weighed in trucks on certified platform scales or other certified weighing devices.

Basis of Payment

The quantity of patching existing pavement, measured as provided above, will be paid for at the contract unit price per ton for the type of patching to be performed.

The above price and payment will be full compensation for all work covered by this provision, including but not limited to removal and disposal of pavement; furnishing and applying tack coat; furnishing, placing, and compacting of asphalt plant mix; furnishing of asphalt binder for the asphalt plant mix; and furnishing scales.

Any provisions included in the contract in the form of project special provisions or in any other form which provides for adjustments in compensation due to variations in the price of asphalt binder will not be applicable to payment for the work covered by this provision.

Patching Existing Pavement (Full Depth) will be considered a minor item.

Payment will be made under:

Pay Item	Pay Unit
Patching Existing Pavement (Full Depth)	Ton

GUARDRAIL END UNITS, TYPE - TL-3:

(4-20-04) (Rev. 7-1-17)

862

SP8 R65

Description

Furnish and install guardrail end units in accordance with the details in the plans, the applicable requirements of Section 862 of the *2018 Standard Specifications*, and at locations shown in the plans.

Materials

Furnish guardrail end units listed on the NCDOT Approved Products List at <https://apps.dot.state.nc.us/vendor/approvedproducts/> or approved equal.

Prior to installation the Contractor shall submit to the Engineer:

- (A) FHWA acceptance letter for each guardrail end unit certifying it meets the requirements of the AASHTO Manual for Assessing Safety Hardware, Test Level 3, in accordance with Article 106-2 of the *2018 Standard Specifications*.
- (B) Certified working drawings and assembling instructions from the manufacturer for each guardrail end unit in accordance with Article 105-2 of the *2018 Standard Specifications*.

No modifications shall be made to the guardrail end unit without the express written permission from the manufacturer. Perform installation in accordance with the details in the plans, and details and assembling instructions furnished by the manufacturer.

Construction Methods

Guardrail end delineation is required on all approach and trailing end sections for both temporary and permanent installations. Guardrail end delineation consists of yellow reflective sheeting applied to the entire end section of the guardrail in accordance with Article 1088-3 of the *2018 Standard Specifications* and is incidental to the cost of the guardrail end unit.

Measurement and Payment

Measurement and payment will be made in accordance with Article 862-6 of the *2018 Standard Specifications*.

Payment will be made under:

Pay Item

Guardrail End Units, Type TL-3

Pay Unit

Each

GUARDRAIL ANCHOR UNITS AND TEMPORARY GUARDRAIL ANCHOR UNITS:

(1-16-2018)

862

SP8 R70

Guardrail anchor units will be in accordance with the details in the plans and the applicable requirements of Section 862 of the *2018 Standard Specifications*.

Revise the 2018 Standard Specifications as follows:

Page 8-42, Article 862-6 MEASUREMENT AND PAYMENT, add the following:

Guardrail Anchor Units, Type ___ and Temporary Guardrail Anchor Units Type ___ will be measured and paid as units of each completed and accepted. No separate measurement will be made of any rail, terminal sections, posts, offset blocks, concrete, hardware or any other components of the completed unit that are within the pay limits shown in the plans for the unit as all such components will be considered to be part of the unit.

Payment will be made under:

Pay Item	Pay Unit
Guardrail Anchor Units, Type ____	Each
Temporary Guardrail Anchor Units, Type ____	Each

REMOVE AND REPLACE EXISTING GUARDRAIL:

Description

This work shall consist of removing existing guardrail and installing new guardrail at the same location.

Construction Methods

The Contractor shall remove existing guardrail in accordance with Section 863 of the *Standard Specifications* and install new proposed guardrail in the same location in accordance with Section 862 of the *Standard Specifications*.

The Contractor shall Remove and Replace Existing Guardrail in the following approximate locations:

Map No. 1 (US 17 Bus. E/ US 76 E) Brunswick Co.:

1. Median - MP 15.235 to MP 15.310: Replace 325’ of Guardrail West of US 74 Overpass (Bridge # 7) to Double Faced Guardrail Section.
2. Outside - MP 15.230 to MP 15.476: Replace 1250’ of Guardrail West of US 74 Overpass (Bridge # 7) to New Hanover County.

Map No. 2 (US 17 Bus. W/ US 76 W) Brunswick Co.:

1. Median - MP 0.168 to MP 0.220: Replace 275’ of Guardrail from Double Faced Guardrail Section to West of US 74 Overpass (Bridge # 7).
2. Outside - MP 0.170 to MP 0.220: Replace 200’ of Guardrail East & West of US 74 Overpass (Bridge # 7).

Map No. 3 (US 421 N. Ramp) Brunswick Co.:

1. Outside - MP 0.036 to MP 0.360: Replace 1700' of Guardrail from New Hanover Co. to End Map 3 Project Limit (Right Only).

Map No. 4 (US 17 Bus. E/ US 76 E) New Hanover Co.:

1. Outside - MP 0.053 to MP 0.000: Replace 275' of Guardrail from Brunswick Co. to Cape Fear Memorial Bridge (Bridge # 13). See Notes to Contractor regarding Bridge Anchor Unit.

Map No. 5 (US 17 Bus. W/ US 76 W) New Hanover Co.:

1. Outside - MP 12.720 to MP 12.784: Replace 325' of Guardrail from Cape Fear Memorial Bridge (Bridge # 13) to Brunswick County. See Notes to Contractor regarding Bridge Anchor Unit.

Map No. 6 (US 421 N - Carolina Beach Rd.) New Hanover Co.:

1. Median - MP 12.235 to MP 12.306: Replace 325' of Guardrail at Overhead Sign.
2. Outside - MP 8.093 to MP 8.183: Replace 425' of Guardrail at Snow's Cut Bridge.

Map No. 7 (US 421 S - Carolina Beach Rd.) New Hanover Co.:

1. Median - MP 17.214 to MP 17.282: Replace 325' of Guardrail at Overhead Sign.
2. Outside - MP 21.31 to MP 21.42: Replace 525' of Guardrail at Snow's Cut Bridge.

Map No. 8 (NC 132 N. - S. College Rd.) New Hanover Co.:

1. Outside - MP 0.127 to MP 0.154: Replace 100' of Guardrail North of US 421 (Carolina Beach Rd.)

Map No. 9 (NC 132 S. - S. College Rd.) New Hanover Co.:

2. Outside - MP 15.065 to MP 15.095: Replace 100' of Guardrail South of US 421 (Carolina Beach Rd.)

The Contractor shall fill existing post holes if applicable.

Measurement and Payment

Remove and Replace Existing Guardrail will be measured and paid in linear feet of guardrail that has been satisfactorily completed. Such price and payment will include removing existing guardrail, furnishing and erecting posts, offset blocks, rail, miscellaneous hardware and other materials; furnishing and installing additional guardrail posts and additional offset blocks; backfilling; fabrication; welding; galvanizing; and furnishing and installing guardrail delineators;

adding dirt to fill existing post holes if applicable and all materials, tools, labor, equipment and incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Remove and Replace Existing Guardrail

Pay Unit

Linear Foot

IMPACT ATTENUATOR UNITS, TYPE 350:

(4-20-04) (Rev. 7-21-15)

SP8 R75

Description

Furnish and install impact attenuator units and any components necessary to connect the impact attenuator units in accordance with the manufacturer's requirement, the details in the plans and at locations shown in the plans.

Materials

Furnish impact attenuator units listed on the Approved Products List at <https://apps.dot.state.nc.us/vendor/approvedproducts/> or approved equal. Prior to installation the Contractor shall submit to the Engineer:

- (A) FHWA acceptance letter for each impact attenuator unit certifying it meets the requirements of NCHRP Report 350, Test Level 3, in accordance with Article 106-2 of the *2018 Standard Specifications*.
- (B) Certified working drawings and assembling instructions from the manufacturer for each impact attenuator unit in accordance with Article 105-2 of the *2018 Standard Specifications*.

No modifications shall be made to the impact attenuator unit without the express written permission from the manufacturer. Perform installation in accordance with the details in the plans and details and assembling instructions furnished by the manufacturer.

Construction Methods

If the median width is 40 feet or less, the Contractor shall supply NON-GATING Impact Attenuator Units.

If the median width is greater than 40 feet, the Contractor may use GATING or NON-GATING Impact Attenuator Units.

Measurement and Payment

Impact Attenuator Unit, Type 350 will be measured and paid at the contract unit price per each. Such prices and payment will be full compensation for all work covered by this provision including, but not limited to, furnishing, installing and all incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Impact Attenuator Units, Type 350

Pay Unit

Each

ADJUSTMENT OF MANHOLES, METER OR VALVE BOXES:

(09-20-17) Div.3-SPI

Manholes, meter or valve boxes shall be adjusted in accordance with Section 858 of the *Standard Specifications*. This item consists of raising or lowering existing manholes, meter or valve boxes and to match the finished surface grade.

Adjustment to manholes, meter or valve boxes on this project shall be made by the use of an approved Rapid Set Grout, Mortar, or Concrete that will take full set and become load bearing within sixty minutes of placement. A list of approved materials will be furnished to the Contractor by the Resident Engineer.

The use of NCDOT approved riser rings will be allowed. The rings shall have satisfactory bearing on the existing manhole frames and 50 percent of the circumference shall be tack welded at four equally spaced locations as directed by the Engineer. If the existing covers do not fit the rings, furnish and install new covers at no additional expense to the Department.

The Contractor shall replace worn manhole frames and covers, meter or valve box frames and covers as directed by the Engineer, with a new frame and cover assembly. These assemblies will be furnished at no cost to the Contractor by the Department or utility owner.

The Contractor shall construct a temporary ramp of bituminous plant mix around all structures that have been adjusted, unless otherwise directed by the Engineer.

Basis of payment will be under *Adjustment to Manholes, Meter or Valve Boxes* per each in accordance with Article 858-4 of the *Standard Specifications*.

HIGH STRENGTH CONCRETE FOR DRIVEWAYS:

(11-21-00) (Rev. 1-17-12)

848

SP10 R02

Use high early strength concrete for all driveways shown in the plans and as directed by the Engineer. Provide high early strength concrete that meets the requirements of Article 1000-5 of the *2018 Standard Specifications*.

Measurement and payment will be in accordance with Section 848 of the *2018 Standard Specifications*.

” CONCRETE DRIVEWAY:

Revise the *2018 Standard Specifications* as follows:

Page 8-31, Article 848-4 Measurement and Payment, lines 32-35, delete the second paragraph and replace with the following:

” *Concrete Driveway* will be measured and paid for in square yards, measured along the surface of the completed and accepted work. Such price includes, but is not limited to excavating and backfilling; sawing the existing adjacent concrete, asphalt and curb & gutter; removing and disposing existing concrete, asphalt and curb & gutter; furnishing and placing concrete; and constructing and sealing joints.

REMOVE AND REPLACE 5" MONOLITHIC CONCRETE ISLANDS

SP

Description

The Contractor shall remove existing asphalt and concrete islands and replace with new 5" monolithic concrete islands either keyed in or surface mounted. All work for this item shall be in accordance with Section 852 amended as follows:

Removal and disposal of existing asphalt and/or concrete islands shall be incidental to the item *Remove and Replace 5" Monolithic Concrete Islands*.

Measurement and Payment

Remove and Replace 5" Monolithic Concrete Islands will be measured and paid for in square yards of concrete island that has been placed and accepted. Measurement will be made parallel to the bottom surface of the island or median. This work includes but is not limited to removal of existing island, excavation and backfilling, constructing base, furnishing and placing concrete, forming holes for signposts, and constructing and sealing joints.

Payment will be made under:

Pay Item

Remove and Replace 5" Monolithic Concrete Islands

Pay Unit

Square Yard

REMOVE MONOLITHIC CONCRETE ISLAND

SP

Description

The Contractor shall remove existing monolithic concrete islands or portions there of according to the project plans. All work for this item shall be in accordance with Section 852 amended as follows:

Disposal of existing concrete islands shall be incidental to the item *Remove Monolithic Concrete Island*.

Measurement and Payment

Remove Monolithic Concrete Island will be measured and paid for in square yards of concrete island that has been removed and accepted. Measurement will be made parallel to the bottom surface of the island or median. This work includes but is not limited to removal of existing island,

Payment will be made under:

Pay Item

Remove Monolithic Concrete Island

Pay Unit

Square Yard

REMOVE & REPLACE 4" CONCRETE SIDEWALK:DDC-846
11-10-11**Description**

The Contractor shall remove and replace existing sidewalk as directed by the Engineer. All work for this item shall be in accordance with Section 848. Section 848 is amended as follows: Removal and disposal of existing curb & gutter shall be incidental to the item *Remove & Replace Concrete Sidewalk*.

Measurement and Payment

Remove & Replace 4" Concrete Sidewalk will be measured and paid for in units of square yards for the actual number of square yards that have been completed and accepted. Such price and payment includes but is not limited to providing all materials, removal and disposal of existing sidewalk, placing all concrete, excavating and backfilling, forming, finishing, constructing and sealing joints, and all incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Remove & Replace 4" Concrete Sidewalk

Pay Unit

Square Yards

REMOVE AND REPLACE CURB & GUTTER:

(6-27-07)

SPI 8-16 (REV.)

Description

The Contractor shall remove and replace existing curb & gutter as directed by the Engineer. All work for this item shall be in accordance with Section 846 amended as follows:

Disposal of existing curb & gutter shall be incidental to the item *Remove and Replace _____ Curb & Gutter*.

Measurement and Payment

Remove and Replace _____ Curb & Gutter will be measured and paid for in units of linear feet for the actual number of linear feet that have been completed and accepted. Such price and payment includes, but is not limited to, providing all materials, removal and disposal of existing curb & gutter, excavating and backfilling, forming, placing all concrete, finishing, constructing and sealing joints, and all incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Remove & Replace _____ Curb & Gutter

Pay Unit

Linear Feet

ADJUSTMENT OF MONUMENTS:

The Contractor shall adjust monument frames and covers using construction methods and materials in accordance with Section 858 of the *Standard Specifications* and as directed by the Engineer. Payment for this work will be made per each as *Adjustment of Monuments*.

Payment will be made under:

Pay Item	Pay Unit
Adjustment of Monuments	Each

EROSION AND STORMWATER CONTROL FOR SHOULDER CONSTRUCTION AND RECONSTRUCTION:

(11-16-10) (Rev. 8-21-12)

105-16, 225-2, Division 16

SP16 R03R

Land disturbing operations associated with shoulder construction/reconstruction may require erosion and sediment control/stormwater measure installation. National Pollutant Discharge Elimination System (NPDES) inspection and reporting may be required.

Erosion control measures shall be installed per the erosion control detail in any area where the vegetated buffer between the disturbed area and surface waters (streams, wetlands, or open waters) or drainage inlet is less than 10 feet. The Engineer may reduce the vegetated buffer threshold for this requirement to a value between 5 and 10 feet. Erosion control measures shall be spot checked every 14 days until permanent vegetative establishment.

In areas where shoulder construction/reconstruction includes disturbance or grading on the front slope or to the toe of fill, relocating ditch line or backslope, or removing vegetation from the ditch line or swale, NPDES inspection and monitoring are required every 14 days or within 24 hours of a rainfall event of 0.5 inch or greater. Maintain daily rainfall records. Install erosion control measures per detail.

In areas where the vegetated buffer is less than 10 feet between the disturbed area and waters of the State classified as High Quality Water (HQW), Outstanding Resource Water (ORW), Critical Areas, or Unique Wetlands, NPDES inspection and monitoring are required every 14 days or within 24 hours of a rainfall event of 0.5" or greater. The Engineer may reduce the vegetated buffer threshold for this requirement to a value between 5 and 10 feet. The plans or provisions will indicate the presence of these water classifications. Maintain daily rainfall records. Install erosion control measures per detail.

Land disturbances hardened with aggregate materials receiving sheet flow are considered non-erodible.

Sites that require lengthy sections of silt fence may substitute with rapid permanent seeding and mulching as directed by the Engineer.

C204135 2018CPT.03.04.10101, etc. **R-19** Brunswick and New Hanover Counties

NPDES documentation shall be performed by a Level II Erosion and Sediment Control/Stormwater certificate holder.

Materials used for erosion control will be measured and paid as stated in the contract.

STANDARD SPECIAL PROVISION
AVAILABILITY OF FUNDS – TERMINATION OF CONTRACTS

(5-20-08)

Z-2

General Statute 143C-6-11. (h) Highway Appropriation is hereby incorporated verbatim in this contract as follows:

(h) Amounts Encumbered. – Transportation project appropriations may be encumbered in the amount of allotments made to the Department of Transportation by the Director for the estimated payments for transportation project contract work to be performed in the appropriation fiscal year. The allotments shall be multiyear allotments and shall be based on estimated revenues and shall be subject to the maximum contract authority contained in *General Statute 143C-6-11(c)*. Payment for transportation project work performed pursuant to contract in any fiscal year other than the current fiscal year is subject to appropriations by the General Assembly. Transportation project contracts shall contain a schedule of estimated completion progress, and any acceleration of this progress shall be subject to the approval of the Department of Transportation provided funds are available. The State reserves the right to terminate or suspend any transportation project contract, and any transportation project contract shall be so terminated or suspended if funds will not be available for payment of the work to be performed during that fiscal year pursuant to the contract. In the event of termination of any contract, the contractor shall be given a written notice of termination at least 60 days before completion of scheduled work for which funds are available. In the event of termination, the contractor shall be paid for the work already performed in accordance with the contract specifications.

Payment will be made on any contract terminated pursuant to the special provision in accordance with Subarticle 108-13(D) of the *2018 Standard Specifications*.

STANDARD SPECIAL PROVISION
NCDOT GENERAL SEED SPECIFICATION FOR SEED QUALITY

(5-17-11)

Z-3

Seed shall be sampled and tested by the North Carolina Department of Agriculture and Consumer Services, Seed Testing Laboratory. When said samples are collected, the vendor shall supply an independent laboratory report for each lot to be tested. Results from seed so sampled shall be final. Seed not meeting the specifications shall be rejected by the Department of Transportation and shall not be delivered to North Carolina Department of Transportation warehouses. If seed has been delivered it shall be available for pickup and replacement at the supplier's expense.

Any re-labeling required by the North Carolina Department of Agriculture and Consumer Services, Seed Testing Laboratory, that would cause the label to reflect as otherwise specified herein shall be rejected by the North Carolina Department of Transportation.

Seed shall be free from seeds of the noxious weeds Johnsongrass, Balloonvine, Jimsonweed, Witchweed, Itchgrass, Serrated Tussock, Showy Crotalaria, Smooth Crotalaria, Sicklepod, Sandbur, Wild Onion, and Wild Garlic. Seed shall not be labeled with the above weed species on the seed analysis label. Tolerances as applied by the Association of Official Seed Analysts will NOT be allowed for the above noxious weeds except for Wild Onion and Wild Garlic.

Tolerances established by the Association of Official Seed Analysts will generally be recognized. However, for the purpose of figuring pure live seed, the found pure seed and found germination percentages as reported by the North Carolina Department of Agriculture and Consumer Services, Seed Testing Laboratory will be used. Allowances, as established by the NCDOT, will be recognized for minimum pure live seed as listed on the following pages.

The specifications for restricted noxious weed seed refers to the number per pound as follows:

<u>Restricted Noxious Weed</u>	<u>Limitations per Lb. Of Seed</u>	<u>Restricted Noxious Weed</u>	<u>Limitations per Lb. of Seed</u>
Blessed Thistle	4 seeds	Cornflower (Ragged Robin)	27 seeds
Cocklebur	4 seeds	Texas Panicum	27 seeds
Spurred Anoda	4 seeds	Bracted Plantain	54 seeds
Velvetleaf	4 seeds	Buckhorn Plantain	54 seeds
Morning-glory	8 seeds	Broadleaf Dock	54 seeds
Corn Cockle	10 seeds	Curly Dock	54 seeds
Wild Radish	12 seeds	Dodder	54 seeds
Purple Nutsedge	27 seeds	Giant Foxtail	54 seeds
Yellow Nutsedge	27 seeds	Horsenettle	54 seeds
Canada Thistle	27 seeds	Quackgrass	54 seeds
Field Bindweed	27 seeds	Wild Mustard	54 seeds
Hedge Bindweed	27 seeds		

Seed of Pensacola Bahiagrass shall not contain more than 7% inert matter, Kentucky Bluegrass, Centipede and Fine or Hard Fescue shall not contain more than 5% inert matter whereas a maximum of 2% inert matter will be allowed on all other kinds of seed. In addition, all seed shall

not contain more than 2% other crop seed nor more than 1% total weed seed. The germination rate as tested by the North Carolina Department of Agriculture shall not fall below 70%, which includes both dormant and hard seed. Seed shall be labeled with not more than 7%, 5% or 2% inert matter (according to above specifications), 2% other crop seed and 1% total weed seed.

Exceptions may be made for minimum pure live seed allowances when cases of seed variety shortages are verified. Pure live seed percentages will be applied in a verified shortage situation. Those purchase orders of deficient seed lots will be credited with the percentage that the seed is deficient.

FURTHER SPECIFICATIONS FOR EACH SEED GROUP ARE GIVEN BELOW:

Minimum 85% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 144 restricted noxious weed seed per pound. Seed less than 83% pure live seed will not be approved.

Sericea Lespedeza
Oats (seeds)

Minimum 80% pure live seed; maximum 1% total weed seed; maximum 2% total other crop; maximum 144 restricted noxious weed seed per pound. Seed less than 78% pure live seed will not be approved.

Tall Fescue (all approved varieties)	Bermudagrass
Kobe Lespedeza	Browntop Millet
Korean Lespedeza	German Millet – Strain R
Weeping Lovegrass	Clover – Red/White/Crimson
Carpetgrass	

Minimum 78% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 144 restricted noxious weed seed per pound. Seed less than 76% pure live seed will not be approved.

Common or Sweet Sundangrass

Minimum 76% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 144 restricted noxious weed seed per pound. Seed less than 74% pure live seed will not be approved.

Rye (grain; all varieties)
Kentucky Bluegrass (all approved varieties)
Hard Fescue (all approved varieties)
Shrub (bicolor) Lespedeza

C204135 2018CPT.03.04.10101, etc. **SSP-4** Brunswick and New Hanover Counties

Minimum 70% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 144 noxious weed seed per pound. Seed less than 70% pure live seed will not be approved.

Centipedegrass
Crownvetch
Pensacola Bahiagrass
Creeping Red Fescue

Japanese Millet
Reed Canary Grass
Zoysia

Minimum 70% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 5% inert matter; maximum 144 restricted noxious weed seed per pound.

Barnyard Grass
Big Bluestem
Little Bluestem
Bristly Locust
Birdsfoot Trefoil
Indiangrass
Orchardgrass
Switchgrass
Yellow Blossom Sweet Clover

STANDARD SPECIAL PROVISION

ERRATA

(2-12-18)

Z-4

Revise the *2018 Standard Specifications* as follows:

Division 7

Page 7-27, line 4, Article 725-1 MEASUREMENT AND PAYMENT, replace article number “725-1” with “724-4”.

Page 7-28, line 10, Article 725-1 MEASUREMENT AND PAYMENT, replace article number “725-1” with “725-3”.

Division 10

Page 10-162, line 1, Article 1080-50 PAINT FOR VERTICAL MARKERS, replace article number “1080-50” with “1080-10”.

Page 10-162, line 5, Article 1080-61 EPOXY RESIN FOR REINFORCING STEEL, replace article number “1080-61” with “1080-11”.

Page 10-162, line 22, Article 1080-72 ABRASIVE MATERIALS FOR BLAST CLEANING STEEL, replace article number “1080-72” with “1080-12”.

Page 10-163, line 25, Article 1080-83 FIELD PERFORMANCE AND SERVICES, replace article number “1080-83” with “1080-13”.

STANDARD SPECIAL PROVISION

PLANT AND PEST QUARANTINES

(Imported Fire Ant, Gypsy Moth, Witchweed, Emerald Ash Borer, And Other Noxious Weeds)

(3-18-03) (Rev. 12-20-16)

Z-04a

Within Quarantined Area

This project may be within a county regulated for plant and/or pests. If the project or any part of the Contractor's operations is located within a quarantined area, thoroughly clean all equipment prior to moving out of the quarantined area. Comply with federal/state regulations by obtaining a certificate or limited permit for any regulated article moving from the quarantined area.

Originating in a Quarantined County

Obtain a certificate or limited permit issued by the N.C. Department of Agriculture/United States Department of Agriculture. Have the certificate or limited permit accompany the article when it arrives at the project site.

Contact

Contact the N.C. Department of Agriculture/United States Department of Agriculture at 1-800-206-9333, 919-707-3730, or <http://www.ncagr.gov/plantindustry/> to determine those specific project sites located in the quarantined area or for any regulated article used on this project originating in a quarantined county.

Regulated Articles Include

1. Soil, sand, gravel, compost, peat, humus, muck, and decomposed manure, separately or with other articles. This includes movement of articles listed above that may be associated with cut/waste, ditch pulling, and shoulder cutting.
2. Plants with roots including grass sod.
3. Plant crowns and roots.
4. Bulbs, corms, rhizomes, and tubers of ornamental plants.
5. Hay, straw, fodder, and plant litter of any kind.
6. Clearing and grubbing debris.
7. Used agricultural cultivating and harvesting equipment.
8. Used earth-moving equipment.
9. Any other products, articles, or means of conveyance, of any character, if determined by an inspector to present a hazard of spreading imported fire ant, gypsy moth, witchweed, emerald ash borer, or other noxious weeds.

STANDARD SPECIAL PROVISION

MINIMUM WAGES

(7-21-09)

Z-5

FEDERAL: The Fair Labor Standards Act provides that with certain exceptions every employer shall pay wages at the rate of not less than SEVEN DOLLARS AND TWENTY FIVE CENTS (\$7.25) per hour.

STATE: The North Carolina Minimum Wage Act provides that every employer shall pay to each of his employees, wages at a rate of not less than SEVEN DOLLARS AND TWENTY FIVE CENTS (\$7.25) per hour.

The minimum wage paid to all skilled labor employed on this contract shall be SEVEN DOLLARS AND TWENTY FIVE CENTS (\$7.25) per hour.

The minimum wage paid to all intermediate labor employed on this contract shall be SEVEN DOLLARS AND TWENTY FIVE CENTS (\$7.25) per hour.

The minimum wage paid to all unskilled labor on this contract shall be SEVEN DOLLARS AND TWENTY FIVE CENTS (\$7.25) per hour.

This determination of the intent of the application of this act to the contract on this project is the responsibility of the Contractor.

The Contractor shall have no claim against the Department of Transportation for any changes in the minimum wage laws, Federal or State. It is the responsibility of the Contractor to keep fully informed of all Federal and State Laws affecting his contract.

STANDARD SPECIAL PROVISION

ON-THE-JOB TRAINING

(10-16-07) (Rev. 4-21-15)

Z-10

Description

The North Carolina Department of Transportation will administer a custom version of the Federal On-the-Job Training (OJT) Program, commonly referred to as the Alternate OJT Program. All contractors (existing and newcomers) will be automatically placed in the Alternate Program. Standard OJT requirements typically associated with individual projects will no longer be applied at the project level. Instead, these requirements will be applicable on an annual basis for each contractor administered by the OJT Program Manager.

On the Job Training shall meet the requirements of 23 CFR 230.107 (b), 23 USC – Section 140, this provision and the On-the-Job Training Program Manual.

The Alternate OJT Program will allow a contractor to train employees on Federal, State and privately funded projects located in North Carolina. However, priority shall be given to training employees on NCDOT Federal-Aid funded projects.

Minorities and Women

Developing, training and upgrading of minorities and women toward journeyman level status is a primary objective of this special training provision. Accordingly, the Contractor shall make every effort to enroll minority and women as trainees to the extent that such persons are available within a reasonable area of recruitment. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

Assigning Training Goals

The Department, through the OJT Program Manager, will assign training goals for a calendar year based on the contractors' past three years' activity and the contractors' anticipated upcoming year's activity with the Department. At the beginning of each year, all contractors eligible will be contacted by the Department to determine the number of trainees that will be assigned for the upcoming calendar year. At that time the Contractor shall enter into an agreement with the Department to provide a self-imposed on-the-job training program for the calendar year. This agreement will include a specific number of annual training goals agreed to by both parties. The number of training assignments may range from 1 to 15 per contractor per calendar year. The Contractor shall sign an agreement to fulfill their annual goal for the year.\

Training Classifications

The Contractor shall provide on-the-job training aimed at developing full journeyman level workers in the construction craft/operator positions. Preference shall be given to providing training in the following skilled work classifications:

Equipment Operators	Office Engineers
Truck Drivers	Estimators
Carpenters	Iron / Reinforcing Steel Workers
Concrete Finishers	Mechanics
Pipe Layers	Welders

The Department has established common training classifications and their respective training requirements that may be used by the contractors. However, the classifications established are not all-inclusive. Where the training is oriented toward construction applications, training will be allowed in lower-level management positions such as office engineers and estimators. Contractors shall submit new classifications for specific job functions that their employees are performing. The Department will review and recommend for acceptance to FHWA the new classifications proposed by contractors, if applicable. New classifications shall meet the following requirements:

Proposed training classifications are reasonable and realistic based on the job skill classification needs, and

The number of training hours specified in the training classification is consistent with common practices and provides enough time for the trainee to obtain journeyman level status.

The Contractor may allow trainees to be trained by a subcontractor provided that the Contractor retains primary responsibility for meeting the training and this provision is made applicable to the subcontract. However, only the Contractor will receive credit towards the annual goal for the trainee.

Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. The number of trainees shall be distributed among the work classifications on the basis of the contractor's needs and the availability of journeymen in the various classifications within a reasonable area of recruitment.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journeyman level status or in which they have been employed as a journeyman.

Records and Reports

The Contractor shall maintain enrollment, monthly and completion reports documenting company compliance under these contract documents. These documents and any other information as requested shall be submitted to the OJT Program Manager.

Upon completion and graduation of the program, the Contractor shall provide each trainee with a certification Certificate showing the type and length of training satisfactorily completed.

Trainee Interviews

All trainees enrolled in the program will receive an initial and Trainee/Post graduate interview conducted by the OJT program staff.

Trainee Wages

Contractors shall compensate trainees on a graduating pay scale based upon a percentage of the prevailing minimum journeyman wages (Davis-Bacon Act). Minimum pay shall be as follows:

60 percent	of the journeyman wage for the first half of the training period
75 percent	of the journeyman wage for the third quarter of the training period
90 percent	of the journeyman wage for the last quarter of the training period

In no instance shall a trainee be paid less than the local minimum wage. The Contractor shall adhere to the minimum hourly wage rate that will satisfy both the NC Department of Labor (NCDOL) and the Department.

Achieving or Failing to Meet Training Goals

The Contractor will be credited for each trainee employed by him on the contract work who is currently enrolled or becomes enrolled in an approved program and who receives training for at least 50 percent of the specific program requirement. Trainees will be allowed to be transferred between projects if required by the Contractor's scheduled workload to meet training goals.

If a contractor fails to attain their training assignments for the calendar year, they may be taken off the NCDOT's Bidders List.

Measurement and Payment

No compensation will be made for providing required training in accordance with these contract documents.

TC-1

WORK ZONE TRAFFIC CONTROL GENERAL REQUIREMENTS

TEMPORARY TRAFFIC CONTROL (TTC):

(7-16-13)(Rev. 1-16-18)

RWZ-1

Maintain traffic in accordance with Divisions 10, 11 and 12 of the *2018 Standard Specifications* and the following provisions:

Install Work Zone Advance Warning Signs in accordance with the detail drawing provided in these plans prior to beginning any other work. Use a lane closure or slow moving operation to complete the work, as necessary, unless otherwise indicated. Refer to Standard Drawing No. 1101.02, 1101.11, 1110.01, 1110.02, 1130.01 1135.01 and 1180.01 of the *2018 Roadway Standard Drawings*. Use a moving operation only if the minimum speed maintained at all times is 3 mph with no stops that narrow or close a lane of travel. If the moving operation is progressing slower than 3 mph at any time, install a lane closure. Maintain the existing traffic pattern at all times, except in the immediate work zone where lane closures are allowed as determined by the Engineer.

Refer to attached details and Standard Drawing No. 1101.02, 1101.03, 1101.04, 1101.05, 1101.11, 1110.01, 1110.02, 1115.01, 1130.01, 1135.01, 1145.01, 1150.01, 1165.01, and 1180.01 of the *2018 Roadway Standard Drawings* when closing a lane of travel in a stationary work zone such as pavement patching resurfacing, or pavement marking removal. Properly ballasted cones and skinny drums may be used instead of drums. However, drums are required for the upstream taper portion of lane closures in all applications. The stationary work zone shall be a maximum of 1 mile in length at any given time on 2 Lane, 2 Way facilities unless otherwise approved by the Engineer. A pilot vehicle operation may be used in conjunction with flaggers and the appropriate pilot vehicle warning signing as directed by the Engineer. During periods of construction inactivity, return the traffic pattern to the existing alignment and remove or cover any work zone signs. When covering work zone signs, use an opaque material that prevents reading of the sign at night by a driver using high beam headlights. Use material, which does not damage the sign sheeting. Replace any obliterated markings as required by other sections of the *2018 Standard Specifications* and the Engineer.

When personnel and/or equipment are working on the shoulder adjacent to and within 5 feet of an open travel lane, close the nearest open travel lane using Standard Drawing No. 1101.02 of the *2018 Roadway Standard Drawings*. When personnel and/or equipment are working within a lane of travel of an undivided facility, close the lane according to the traffic control plans, *2018 Roadway Standard Drawings* or as directed by the Engineer. Conduct the work so that all personnel and/or equipment remain within the closed travel lane. Do not work simultaneously, on both sides of an open travel way, within the same location, on a two-lane, two-way road. Perform work only when weather and visibility conditions allow safe operations as directed by the Engineer.

When utilizing a slow-moving operation for such items as pavement marking and marker placement, the operation shall consist of the vehicles and devices as shown on Roadway Standard Drawing No. 1101.02, sheet 11 or 12 of the *2018 Roadway Standard Drawings*. Traffic cones may be used when necessary to provide additional protection of wet pavement markings. Ballast all traffic cones so they will not be blown over by traffic.

TC-2

PAVING OPERATIONS:

1) Paving Lift Requirements and Time Limitations:

For paving lifts of 2.0 inches or less, bring all newly resurfaced lanes to the same station and elevation within 72 hours. If not brought up to the same station and elevation within 72 hours, the Contractor shall place portable “UNEVEN PAVEMENT” signs in advance of the uneven pavement and spaced every 1/2 mile along the section of uneven pavement. Once mitigated, all portable “UNEVEN PAVEMENT” signs shall be removed. No additional compensation will be made for these signs or any other type of portable warning signs as these are included in the “Temporary Traffic Control” contract pay item.

For paving lifts greater than 2 inches, bring all newly resurfaced lanes to the same station and elevation by the end of each work day unless the Contractor utilizes the notched wedge paving methods as described below.

Failure to comply with the following requirements will result in a suspension of all other operations until all lanes of traffic are brought to the same station and elevation:

1. During paving operations, any paving lift greater than 2 inches for asphalt surface course mixes shall be mitigated by having an approved wedge apparatus on the paver that shapes the edge 1 inch vertically and the remaining at a maximum slope steepness of 2:1. For intermediate and base course mixes, use an approved wedge device that shapes the edge with a maximum slope steepness of 2:1. The maximum paving lift allowed to use this method is 3 inches.
2. At the end of the work day, the Contractor shall place portable “UNEVEN PAVEMENT” signs in advance of the uneven pavement and spaced every 1/2 mile along the section of uneven pavement. Once mitigated, all portable “UNEVEN PAVEMENT” signs shall be removed. No additional compensation will be made for these signs or any other type of portable warning signs as these are included in the “Temporary Traffic Control” contract pay item.
3. In the next day’s paving operation and not to exceed 72 hours, the Contractor shall bring up the adjacent lane to the same station and elevation before any further paving takes place on the project.

2) Asphalt Surface Treatments (AST)

For AST Operations, there is no drop-off condition to be signed. Stationary “LOOSE GRAVEL” and “UNMARKED PAVEMENT” signs shall replace “LOW/SOFT SHOULDER” signs. For placement and spacing of these signs, see the Signing Detail Sheet. All other advance warning signs are to be portable mounted. These signs are included as part of the temporary traffic control (Lump Sum) item.

TC-3

3) Fine Milling/Microsurfacing (Depths less than 1")

For fine milling operations less than 1 inch, paving is not required in the same work period. The paving of the fine milled area is to be conducted within the next work period and not to exceed 72 hours. No advance warning signs are necessary for these conditions unless the paving operations exceed 72 hours. If this occurs, install portable "UNMARKED PAVEMENT" signs. These signs are incidental to the other items of work included in the temporary traffic control (Lump Sum) item.

4) Shoulder Drop-Off Requirements

Whenever paving operations create an edge of pavement drop-off greater than 2 inches, within 72 hours, the Contractor shall backfill at a 6:1 slope from the edge and finished elevation of the pavement that has an edge of pavement drop-off as follows:

- (A) Drop-off that exceeds 2 inches on roadways with posted speed limits of 45 mph or greater.
- (B) Drop-off that exceeds 3 inches on roadways with posted speed limits less than 45 mph.

Backfill the edge of pavement drop-off with suitable compacted material, as approved by the Engineer. The material, equipment and labor associated with this operation will be at no expense to the Department. This work is not considered part of shoulder reconstruction.

PROJECT REQUIREMENTS:

Failure to comply with the following requirements will result in a suspension of all other operations:

1. Before working on ANY MAP, the Contractor shall submit a written construction sequence for traffic control and construction lighting for ALL MAPS to the Engineer at the first pre-construction meeting and the sequence must be approved before closing a lane of traffic. The Contractor and Engineer will coordinate with the Traffic Management Unit at 919-814-5000 or Traffic Services for additional traffic control guidance, as necessary.
2. Obtain written approval of the Engineer before working in more than one location or setting up additional lane closures. The maximum length of any one lane closure is 1 mile unless otherwise directed by the Engineer.
3. If Lane Closure Restrictions apply, see Special Provision, "Intermediate Contract Times and Liquidated Damages".
4. Contractor shall mill and pave lanes in an order such that water shall not accumulate.
5. Traffic Control for the milling and/or paving of ramps is to be done according to Standard Drawing Number 1101.02, Sheets 9 & 10, unless otherwise approved to be closed by the Engineer. If approved, Contractor will provide plans and devices for the detour at no additional cost to the department.

TC-4

6. If milled areas are not paved back within 72 hours, the Contractor is to furnish and install portable signs to warn drivers of the conditions. These are to include, but not limited to “Rough Road” (W8-8), “Uneven Lanes” (W8-11), and “Grooved Pavement” (W8-15) w/ Motorcycle Plaque mounted below. These are to be dual indicated on Multi-Lane Roadways with speed limits 45 mph and greater where lateral clearance can be obtained within the median areas. These portable signs are incidental to the other items of work included in the temporary traffic control (Lump Sum) pay item.

WORK ZONE SIGNING:

Description

Install advance/general warning work zone signs according to the Detail Drawing provided in these plans prior to beginning of work. Install and maintain signing in accordance with the attached drawings and Divisions 11 and 12 of the *2018 Standard Specifications*.

(A) Installation

All stationary Advance/General warning work zone signs require notification to existing Utility owners per Article 105-8 of the *2018 Standard Specifications* and Special Provision SP1 G115 within 3 to 12 full working days prior to installation.

Install Advance/General warning work zone signs before beginning work on a particular map. If signs are installed more than 7 calendar days prior to the beginning of work on a particular map, cover the signs until the work begins. Install each work zone Advance/General warning sign separately and not on the same post or stand with any other sign except where an advisory speed plate or directional arrow is used.

All stationary signing is to be installed as shown on the detail drawing(s) unless otherwise directed by the Engineer. The signs as shown on the detail drawing(s) are all that are required for a contractor to begin a resurfacing contract. Any additional signs requested by the Engineer shall be installed within 7 business days of the start of contract work. All sign locations are to be verified by the Engineer prior to installation. Once the signs have been installed and accepted, any sign relocations requested by the Department will be compensated in accordance with Article 104-7. Any additional signs other than the ones shown in the drawing will be compensated in accordance with Article 104-7.

No stationary -Y- Line advance warning signage is required unless there is more than 1,000 feet of resurfacing along the -Y- line. Whenever work proceeds through an intersection, portable signs shall be used for traffic control. There will be no direct compensation for any portable signing.

If there is a period of construction inactivity longer than 14 calendar days, remove or cover advance/general warning work zone signs. Uncover advance/general warning work zone signs no more than 7 calendar days before work resumes. All other operations may be suspended upon failure to comply with the above requirements. Such suspended operations would not be resumed until the above requirements are fulfilled.

TC-5

(B) Sign Removal

Once Maps on the Project are substantially complete, it is acceptable practice to remove the Stationary Work Zone Signs in lieu of waiting until all of the Maps are completed on the Project. A Map is substantially complete when the resurfacing operations are finished and the shoulders are brought up to the same elevation as the proposed pavement and when pavement markings (paint) are installed along the centerline and edge lines. The final pavement markings (ex. Thermoplastic/Polyurea) or pavement markers (Raised/Snowplowable) don not have to be installed for Maps to be considered substantially complete. Final pavement marking/markers are installed with portable signing according to Roadway Standard Drawing 1101.02, sheet 11 or 12. Any remaining punch list items requiring traffic control are compensated in the contract pay item for *Temporary Traffic Control*.

Stationary Work Zone Sign removal is a condition of final project acceptance.

(C) Lane Closure Work Zone Signs

Install any required lane closure signing needed during the life of the project in accordance with the Standard Drawing No. 1101.02, 1101.11 and 1110.02 of the *2018 Roadway Standard Drawings*. Any required portable signs for lane closures are compensated in the contract pay item for *Temporary Traffic Control*.

MEASUREMENT AND PAYMENT:

Temporary traffic control work, including, but not limited to installation and removal of portable signs, cones, drums, skinny drums, flaggers, AFAD's, changeable message boards, truck mounted attenuators, flashing arrow boards, and pilot vehicles will be paid at the contract lump sum price for *Temporary Traffic Control*. The *Temporary Traffic Control* pay item does not include work zone advance or general warning signs. Partial payments for *Temporary Traffic Control* will be made as follows: The cumulative total of the lump sum price for temporary traffic control will be equal to the percent complete (project) as calculated for each partial pay estimate. Additional flashing arrow boards and message boards beyond those shown in the contract, detail drawings or *Roadway Standard Drawings* required by the Engineer will be paid as extra work in accordance with Article 104-7 of the *Standard Specifications*.

The work of satisfactorily installing and removing work zone advance and/or general warning signs, including, but not limited to, furnishing, locating, installing, covering, uncovering and removing stationary signs will be measured for each required sign and paid at the contract price for *Work Zone Advance/General Warning Signing (SF)*. Payment for *Work Zone Advance/General Warning Signing* will be limited to a maximum of 90% of the total installed quantity. The remaining 10% will be paid once all signs have been removed.

The Lump Sum price for *Temporary Traffic Control* will include the work of 4 flaggers per operation per map being utilized at the same time on any day. If a pilot vehicle is used for an operation, the Lump Sum Price for *Temporary Traffic Control* will include the work of five (5) flaggers. The operator of a pilot vehicle will be considered one of the five flaggers.

TC-6

Any additional flagging beyond the “included” amount covered in the *Temporary Traffic Control* pay item will be considered supplemental flagging and compensated at a rate of \$20.00 per hour for each additional flagger as approved by the Engineer.

Payment will be made under:

Pay Item

Temporary Traffic Control
Work Zone Advance/General Warning Signing

Pay Unit

Lump Sum
Square Foot



DocuSigned by:
Steve Kite
E27CE30E1DFC442...
11/14/2017

TC-7

RESURFACING OPERATIONS:

(7-15-14)

RWZ-2

Coordinate the installation of items required by the contract documents and resurfacing operations such that these operations are completed in the order as agreed upon with the Engineer at the first pre-construction meeting. Refer to the Provisions, Typicals and Details unless otherwise directed by the Engineer.

Notify the Engineer 15 consecutive calendar days before resurfacing a bridge or its approaches. Patch and make repairs to bridge surface and its approaches before resurfacing occurs. Coordinate all operations on the bridge and its approaches with the Engineer.

Notify the Engineer 48 hours before resurfacing the areas of existing pavement that require patching. Patch these areas before resurfacing occurs. Allow full depth asphalt patching to cool to the point of supporting traffic without displacement or rutting before reopening closed lane. Coordinate the resurfacing operations of the patched areas with the Engineer.

Notify the Engineer 48 hours before milling or resurfacing will interfere with the existing Signal Loops. Loops may need to be placed in milled surface before resurfacing occurs. Coordinate all signal loop operations with the Engineer.

For partial or wheel track milling operations on two-way, two-lane facilities, mill and pave back by the end of each work day. For Partial or wheel track milling operation on multi-lane facilities, the lane being milled may be left closed and paved back within 72 hours.

The following options are available during Resurfacing and milling operations on two-way, two-lane facilities when the entire roadway or entire lane is to be milled:

- (A) Mill a single lane and pave back by the end of each work day.

The following options are available during Resurfacing and milling operations on multi-lane facilities when all lanes or a single lane in one direction are to be milled:

- (A) Mill a single lane and pave back by the end of each work day.

Slope the pavement at the beginning and ending of the daily milling operation as directed by the Engineer. Sweep and remove all milled material from the roadway as soon as the daily milling operation is completed. Continue milling operations until the particular section of roadway being milled is complete. Remove any existing pavement adjacent to the milled area that has been damaged and replace with patch material as directed by the Engineer.

Operate equipment and conduct operations in the same direction as the flow of traffic. Maintain vehicular access in accordance with Article 1101-05 of the *2018 Standard Specifications* using suitable backfill material approved by the Engineer.

TC-8

Provide appropriate lighting in accordance with Section 1413 of the *2018 Standard Specifications*.

Milled Rumble Strips:

When utilized, milled rumble strips shall be installed in accordance with the *2018 Standard Specifications* and the 2018 Roadway Standard Drawing 665.01.

TC-9

PAVEMENT MARKINGS AND MARKERS:

(7-15-14)

RWZ-3

Markings: All Facilities

Pavement markings shall be installed in accordance with Standard Drawings 1205.01 through 1205.13 of the *2018 Roadway Standard Drawings* and Section 1205 of the *2018 Standard Specifications* with the exception of the 15 day edge line replacement requirement for two-lane, two-way roadways as described in Subarticle 1205-3(D) of the *2018 Standard Specifications*. For all two-lane, two-way facilities, edge lines can be replaced within 30 calendar days after they have been obliterated.

Type 3 Cold Applied Plastic may be used in lieu of Type 2 Cold Applied Plastic. If Type 3 Cold Applied Plastic is used, it shall be paid for using the Type 2 Cold Applied Plastic pay item.

Unless otherwise specified, Heated-in-Place Thermoplastic may be used in lieu of Extruded Thermoplastic for stop bars, symbols, characters and diagonals. If Heated-in-Place Thermoplastic is used, it shall be paid for using the Extruded Thermoplastic pay item.

Unless otherwise specified, Heated-in-Place Thermoplastic may be used in lieu of Cold Applied Plastic for stop bars, symbols, characters and diagonals on asphalt or concrete roadways. If Heated-in-Place Thermoplastic is used, it shall be paid for using the Cold Applied Plastic pay item.

Markers: All Facilities

Remove existing pavement markers in preparation for paving. Repair any pavement damage due to existing pavement marker removal prior to the end of the work day. Dispose of existing pavement markers as directed by the Engineer. No direct payment will be made for this work as it will be incidental to the paving operation.

Install permanent pavement markers within 60 calendar days after completing the resurfacing on each map. Pavement markers shall be installed in accordance with Standard Drawing 1205.12 and Standard Drawings 1250.01 through 1253.01 of the *2018 Roadway Standard Drawings* and Sections 1250 through 1253 of the *2018 Standard Specifications*.

Markings and Markers: All Facilities

Review and record the existing pavement markings and markers before resurfacing. Re-establish the new pavement markings and markers using the record of existing markings in conjunction with the *2018 Roadway Standard Drawings* unless otherwise directed by the engineer. Have existing or proposed "passing zones" reviewed by the engineer before installation. Submit the record of the existing pavement markings seven calendar days before the obliteration of any pavement markings.

Mainline pavement shall not be left milled, unmarked or uneven at the end of a paving season. If the Contractor begins any map and does not complete within the seasonal restrictions, including placement of final pavement markings or permanent markers, the Contractor shall be responsible for, at his expense, Paint in accordance with Article 1205-08 and Temporary Markers in accordance with Section 1251 of the *2018 Standard Specifications*.

EC-1

STABILIZATION REQUIREMENTS:

(3-11-16)

S-1

Stabilization for this project shall comply with the time frame guidelines as specified by the NCG-010000 general construction permit effective August 3, 2011 issued by the North Carolina Department of Environment and Natural Resources Division of Water Quality. Temporary or permanent ground cover stabilization shall occur within 7 calendar days from the last land-disturbing activity, with the following exceptions in which temporary or permanent ground cover shall be provided in 14 calendar days from the last land-disturbing activity:

- Slopes between 2:1 and 3:1, with a slope length of 10 ft. or less
- Slopes 3:1 or flatter, with a slope of length of 50 ft. or less
- Slopes 4:1 or flatter

The stabilization timeframe for High Quality Water (HQW) Zones shall be 7 calendar days with no exceptions for slope grades or lengths. High Quality Water Zones (HQW) Zones are defined by North Carolina Administrative Code 15A NCAC 04A.0105 (25). Temporary and permanent ground cover stabilization shall be achieved in accordance with the provisions in this contract and as directed.

SEEDING AND MULCHING:

(East)

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

All Roadway Areas

March 1 - August 31		September 1 - February 28	
50#	Tall Fescue	50#	Tall Fescue
10#	Centipede	10#	Centipede
25#	Bermudagrass (hulled)	35#	Bermudagrass (unhulled)
500#	Fertilizer	500#	Fertilizer
4000#	Limestone	4000#	Limestone

Waste and Borrow Locations

March 1 - August 31		September 1 - February 28	
75#	Tall Fescue	75#	Tall Fescue
25#	Bermudagrass (hulled)	35#	Bermudagrass (unhulled)
500#	Fertilizer	500#	Fertilizer
4000#	Limestone	4000#	Limestone

Note: 50# of Bahiagrass may be substituted for either Centipede or Bermudagrass only upon Engineer's request.

EC-2

Approved Tall Fescue Cultivars

06 Dust	Escalade	Justice	Scorpion
2 nd Millennium	Essential	Kalahari	Serengeti
3 rd Millennium	Evergreen 2		Shelby
Apache III	Falcon IV	Kitty Hawk 2000	Sheridan
Avenger	Falcon NG	Legitimate	Signia
Barlexas	Falcon V	Lexington	Silver Hawk
Barlexas II	Faith	LSD	Sliverstar
Bar Fa	Fat Cat	Magellan	Shenandoah Elite
Barrera	Festnova	Matador	Sidewinder
Barrington	Fidelity	Millennium SRP	Skyline
Barrobusto	Finelawn Elite	Monet	Solara
Barvado	Finelawn Xpress	Mustang 4	Southern Choice II
Biltmore	Finesse II	Ninja 2	Speedway
Bingo	Firebird	Ol' Glory	Spyder LS
Bizem	Firecracker LS	Olympic Gold	Sunset Gold
Blackwatch	Firenza	Padre	Taccoa
Blade Runner II	Five Point	Patagonia	Tanzania
Bonsai	Focus	Pedigree	Trio
Braveheart	Forte	Picasso	Tahoe II
Bravo	Garrison	Piedmont	Talladega
Bullseye	Gazelle II	Plantation	Tarheel
Cannavaro	Gold Medallion	Proseeds 5301	Terrano
Catalyst	Grande 3	Prospect	Titan ltd
Cayenne	Greenbrooks	Pure Gold	Titanium LS
Cessane Rz	Greenkeeper	Quest	Tracer
Chipper	Gremlin	Raptor II	Traverse SRP
Cochise IV	Greystone	Rebel Exeda	Tulsa Time
Constitution	Guardian 21	Rebel Sentry	Turbo
Corgi	Guardian 41	Rebel IV	Turbo RZ
Corona	Hemi	Regiment II	Tuxedo RZ
Coyote	Honky Tonk	Regenerate	Ultimate
Darlington	Hot Rod	Rendition	Venture
Davinci	Hunter	Rhambler 2 SRP	Umbrella
Desire	Inferno	Rembrandt	Van Gogh
Dominion	Innovator	Reunion	Watchdog
Dynamic	Integrity	Riverside	Wolfpack II
Dynasty	Jaguar 3	RNP	Xtremegreen
Endeavor	Jamboree	Rocket	

EC-3

On cut and fill slopes 2:1 or steeper Centipede shall be applied at the rate of 5 pounds per acre and add 20# of Sericea Lespedeza from January 1 - December 31.

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

EC-4

WATTLE:

(10-19-10) (Rev. 1-17-12)

1060,1630,1631

T1

Description

Wattles are tubular products consisting of excelsior fibers encased in synthetic netting. Wattles are used on slopes or channels to intercept runoff and act as a velocity break. Wattles are to be placed at locations shown on the plans or as directed. Installation shall follow the detail provided in the plans and as directed. Work includes furnishing materials, installation of wattles, matting installation, and removing wattles.

Materials

Wattle shall meet the following specifications:

100% Curled Wood(Excelsior) Fibers	
Minimum Diameter	12 in.
Minimum Density	2.5 lb/ft ³ +/- 10%
Net Material	Synthetic
Net Openings	1 in. x 1 in.
Net Configuration	Totally Encased
Minimum Weight	20 lb. +/- 10% per 10 ft. length

Stakes shall be used as anchors.

Provide hardwood stakes a minimum of 2 feet long with a 2 inch x 2 inch nominal square cross section. One end of the stake must be sharpened or beveled to facilitate driving down into the underlying soil.

Matting shall meet the requirements of Article 1060-8 of the *2018 Standard Specifications*, or shall meet specifications provided elsewhere in this contract.

Provide staples made of 0.125 inch diameter new steel wire formed into a *u* shape not less than 12 inches in length with a throat of 1 inch in width.

Construction Methods

Wattles shall be secured to the soil by wire staples approximately every 1 linear foot and at the end of each section of wattle. A minimum of 4 stakes shall be installed on the downstream side of the wattle with a maximum spacing of 2 linear feet along the wattle, and according to the detail. Install a minimum of 2 stakes on the upstream side of the wattle according to the detail provided in the plans. Stakes shall be driven into the ground a minimum of 10 inches with no more than 2 inches projecting from the top of the wattle. Drive stakes at an angle according to the detail provided in the plans.

EC-5

Only install wattle(s) to a height in ditch so flow will not wash around wattle and scour ditch slopes and according to the detail provided in the plans and as directed. Overlap adjoining sections of wattles a minimum of 6 inches.

Installation of matting shall be in accordance with the detail provided in the plans, and in accordance with Article 1631-3 of the *2018 Standard Specifications*, or in accordance with specifications provided elsewhere in this contract.

The Contractor shall maintain the wattles until the project is accepted or until the wattles are removed, and shall remove and dispose of silt accumulations at the wattles when so directed in accordance with the requirements of Section 1630 of the *2018 Standard Specifications*.

Measurement and Payment

Wattle will be measured and paid for by the actual number of linear feet of wattles which are installed and accepted. Such price and payment will be full compensation for all work covered by this section, including, but not limited to, furnishing all materials, labor, equipment and incidentals necessary to install the *Wattle*.

Matting will be measured and paid for in accordance with Article 1631-4 of the *2018 Standard Specifications*, or in accordance with specifications provided elsewhere in this contract.

Payment will be made under:

Pay Item	Pay Unit
Wattle	Linear Foot

EC-6

RESPONSE FOR EROSION CONTROL:

Description

Furnish the labor, materials, tools and equipment necessary to move personnel, equipment, and supplies to the project necessary for the pursuit of any or all of the following work as shown herein, by an approved subcontractor.

Section	Erosion Control Item	Unit
1605	Temporary Silt Fence	LF
1606	Special Sediment Control Fence	LF/TON
1615	Temporary Mulching	ACR
1620	Seed - Temporary Seeding	LB
1620	Fertilizer - Temporary Seeding	TN
1631	Matting for Erosion Control	SY
SP	Coir Fiber Mat	SY
1640	Coir Fiber Baffles	LF
SP	Permanent Soil Reinforcement Mat	SY
1660	Seeding and Mulching	ACR
1661	Seed - Repair Seeding	LB
1661	Fertilizer - Repair Seeding	TON
1662	Seed - Supplemental Seeding	LB
1665	Fertilizer Topdressing	TON
SP	Safety/Highly Visible Fencing	LF
SP	Response for Erosion Control	EA

Construction Methods

Provide an approved subcontractor who performs an erosion control action as described in the NPDES Inspection Form SPPP30. Each erosion control action may include one or more of the above work items.

Measurement and Payment

Response for Erosion Control will be measured and paid for by counting the actual number of times the subcontractor moves onto the project, including borrow and waste sites, and satisfactorily completes an erosion control action described in Form 1675. The provisions of Article 104-5 of the *Standard Specifications* will not apply to this item of work.

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Payment will be made under:

Pay Item

Response for Erosion Control

Pay Unit

Each

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SECTION 01140 EXCEPTIONS:

As the North Carolina State Ports Authority (NCSPA) has participated in planning improvements at the port site, the following Special Provision entitled “SECTION 01140 – WORK RESTRICTIONS” has been included in this contract. The provision will apply only to the portion of the work at the NCSPA site. Certain sections of this “Work Restrictions” Special Provision will not be applicable to this project, which is being let and administered under NCDOT procedures. Actions required by the below listed paragraphs of the “Work Restrictions” Special Provision will be covered by the applicable NCDOT Specifications and Special Provisions in lieu of the following three listed paragraphs.

Paragraphs of Section 01140 not applicable:

- 1.6 Suspension of Work
- 1.7 Annulment of Contract
- 1.8 Termination of Work for Convenience

Where the term “Owner” is used in the Special Provisions, the Contractor shall coordinate all “Owner” actions or requirements of the NCSPA through the NCDOT Engineer.

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NC STATE PORT WORK RESTRICTIONS SECTION 01140

PART 1 - GENERAL

1.1 COOPERATION AND COORDINATION WITH NCSPA OPERATIONS

- A. The existing area will be in use during this Contract requiring that the Contractor closely coordinate his work with the Owner to minimize interference with the Operations and other contractors performing work on behalf of the NCSPA. The Contractor shall coordinate with the NCSPA to obtain access to the site and provide a minimum agreed advance notice before accessing the work area and requesting any utility outages.
- B. The Contractor is responsible for the coordination and protection of his work until acceptance by the Owner.
- C. The Contractor shall submit a timeline that shows all work to be performed and the areas of the Port that will be affected during each phase of the construction. The Contractor must present this timeline to the Owner for approval prior to the commencement of any work. Any deviations from the approved timeline shall be promptly brought to the attention of the Owner. The Owner will make all efforts to accommodate this timeline but maintaining the smooth operation of the Port will be the highest priority.

1.2 CONSTRUCTION AREA

- A. The Contractor shall provide lights, barricades and warning signs as necessary to protect the required construction area. The Contractor shall coordinate with the NCSPA's representative, the area required for construction purposes. An area for the Contractor's field office and/or material storage shall be coordinated with the Owner.

1.3 SAFETY

- A. The contractor shall assign a safety officer to the Project for its duration. At a minimum, the Safety Officer shall be physically present at the Port of Wilmington for the complete time period from the commencement of the work through commissioning, certifications and placement into the NCSPA operations. The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work.

1.4 OTHER CONTRACTS AND OWNER'S OPERATIONS

- A. The Owner or other Contractors may have operations underway at or near the site of work under this contract. The Contractor shall fully cooperate with the Owner's work forces or other contractors and shall adapt his scheduling and performance of the work under this Contract to accommodate the other work and shall heed any directions that may be provided by the Owner. The Contractor shall not commit, nor permit, any act that will interfere with the performance of work

SPA-3

by other contractors or the Owner.

1.5 FACILITIES SECURITY

- A. The Contractor and his personnel will comply with the security regulations of the Owner. The Contractor's employees working on NCSPA property may be required to attend a Port Security Training class as required by the current Maritime Security Act.

1.6 SUSPENSION OF WORK

- A. At any time without cause, the Owner may suspend construction, or any portion thereof, for a period of not more than 90 consecutive calendar days by notice in writing to the Contractor and Designer, which will fix the date that construction is to be resumed. The Contractor shall resume construction on the date so established. The Contractor shall be allowed an adjustment in the Contract Price or an extension of the Contract Duration, or both, directly attributable to any suspension if the Contractor makes a claim therefore.

1.7 ANNULMENT OF CONTRACT

- A. If the Contractor fails to begin the work under the contract within the time specified, or the progress of the work is not maintained on schedule, or the work is not completed within the time above specified, or fails to perform the work with sufficient workmen and equipment or with sufficient materials to ensure the prompt completion of said work, or shall perform the work unsuitably or shall discontinue the prosecution of the work, or if the Contractor shall become insolvent or be declared bankrupt or commit any act of bankruptcy or insolvency, or allow any final judgment to stand against him unsatisfied for a period of forty-eight (48) hours, or shall make an assignment for the benefit of creditors, or for any other cause whatsoever shall not carry on the work in an acceptable manner, the Owner may give notice in writing, sent by certified mail, return receipt requested, to the contractor and his surety of such delay, neglect or default, specifying the same, and if the Contractor within a period of fifteen (15) days after such notice shall not proceed in accordance therewith, then the owner shall declare this contract in default, and, thereupon, the surety shall promptly take over the work and complete the performance of this contract in the manner and within the time frame specified. In the event the surety shall fail to take over the work to be done under this contract within fifteen (15) days after being so notified and notify the owner in writing, sent by certified mail, return receipt requested, that he is taking the same over and stating that he will diligently pursue and complete the same, the Owner shall have full power and authority, without violating the contract, to take the prosecution of the work out of the hands of said Contractor, to appropriate or use any or all contract materials and equipment on the grounds as may be suitable and acceptable and may enter into an agreement, either by public letting or negotiation, for the completion of said contract according to the terms and provisions thereof or use such other methods as in his opinion shall be required for the completion of said contract in an acceptable manner. All costs and charges incurred by the Owner, together with the costs of

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completing the work under contract, shall be deducted from any monies due or which may become due said contractor and surety. In case the expense so incurred by the Owner shall be less than the sum which would have been payable under the contract, if it had been completed by said contractor, then the said contractor and surety shall be entitled to receive the difference, but in case such expense shall exceed the sum which would have been payable under the contract, then the Contractor and the surety shall be liable and shall pay to the Owner the amount of said excess.

1.8 TERMINATION OF WORK FOR CONVENIENCE

- A. Upon seven days written notice to the Contractor and Designer, the Owner may, without cause and written prejudice to any other right or remedy to the owner, elect to terminate the Contract for convenience. In such case, the Contractor shall be paid (without duplication of items).
1. for completed and acceptable work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such work;
 2. for expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted work, plus fair and reasonable sums for overhead and profit on such expenses;
 3. for all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court, arbitration or other dispute resolution costs) incurred in settlement of terminated contracts with subcontractors, suppliers, and others; and for reasonable expenses directly attributable to termination.

The Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

1.9 TRANSPORTATION WORKER IDENTIFICATION CREDENTIAL (TWIC) PROGRAM

- A. Controlling access to certain maritime facilities is a critical component of the Department of Homeland Security's (DHS) efforts to enhance port security. A TWIC is a federally-mandated common identification credential for all personnel requiring unescorted access to secure areas of regulated maritime facilities; these regulated facilities include both NCSPA port terminals.
- B. The Transportation Security Administration (TSA) issues TWICs. TWIC enrollment centers are located in both Wilmington and Morehead City. A thorough background check is made by TSA prior to issuance of a TWIC. The

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cost of a TWIC is \$125.50 per person. It is valid for 5 years. For additional information of enrollment procedures, please visit <http://www.tsa.gov/twic>.

- C. Contractors and Vendors are responsible for compliance by all individuals requiring access to the Ports on behalf of the Contractor/Vendor to perform the contracted work, including but not limited to employees, agents, subcontractors, and suppliers.
- D. Contractors/Vendors shall be in compliance with all TWIC requirements prior to initiating contracted work.
- E. The Contractor /Vendor is responsible for all costs associated with obtaining a TWIC.
- F. Under the current program, an individual with a valid TWIC may escort a total of five other individuals. The escorted individuals must be continuously accompanied in a side-by-side manner by their escort while on NCSPA property. Individuals must attend a class given by the NCSPA Police Department prior to escorting any individual that does not have a valid TWIC.
- G. Violations of any TWIC regulation may result in the removal of the individual from NCSPA property. No extension of time for completion of the contract will be allowed if this occurs. Any fines that are charged to the North Carolina State Ports Authority as a result of the actions of the Contractor /Vendor may be subject to reimbursement by the Contractor /Vendor.
- H. The Contractor will also be required to obtain a NCSPA ID. This ID has a cost of \$25 and is issued at the NCSPA Police Department at any time.

1.10 UTILITIES

- A. The Contractor will be responsible for furnishing, at his own expense, all necessary potable water and electrical power, including utility connections. Metered connections to Port potable water utilities may be available upon request.

1.11 EXISTING WORK

- A. The Contractor shall protect existing work which is to remain in place, be reused, or remain the property of the North Carolina State Ports Authority. Repair items which are to remain and which are damaged during performance of the work to their original condition.

1.12 USE OF SITE

- A. The Contractor shall protect existing work which is to remain in place, be reused, or remain the property of the North Carolina State Ports Authority.

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North Carolina State Ports Authority
Police Department

FACILITY ACCESS REQUIREMENTS

FACILITY COMPLIANCE

The North Carolina State Ports Authority (NCSPA) marine terminals are federally regulated maritime facilities that must adhere to and enforce the Maritime Transportation Security Act (MTSA) regulations. The NCSPA is fully compliant with the provisions of the MTSA and utilizes the federal Transportation Workers Identification Credential (TWIC) as the primary credential to initiate unescorted access.

FACILITY ACCESS POLICY

1. Individuals with a valid TWIC card will be granted access under the following conditions:
 - a. They must have a valid TWIC card in their possession,
 - b. They must be able to demonstrate a legitimate reason to enter the port,
 - c. They must possess a valid photo government issued identification (i.e. driver's license),
 - d. They must register in the NCSPA Access Control System by obtaining a Port Access Card.
2. Individuals with a payment receipt, or an enrollment email confirmation showing that they have applied for their initial or first TWIC card will be allowed escorted access for thirty (30) consecutive calendar days.
3. Individuals with a payment receipt, or an enrollment email confirmation showing that they have applied for a renewal of their TWIC card will be granted unescorted access for thirty (30) consecutive calendar days provided the payment receipt, or the enrollment email confirmation is dated before the expiration of the original TWIC card.
4. Individuals that have a payment receipt, or an enrollment email confirmation showing that they have reported their TWIC card lost, stolen or damaged will be granted thirty-seven (37) consecutive calendar days of unescorted access provided the individual was previously enrolled in the NCSPA Access Control System.
5. Individuals without a valid TWIC (Non-TWIC Holders) will be granted access under the following conditions:
 - a. Individuals without a TWIC who regularly access NCSPA facilities must obtain a Port Access Card upon their first visit to any NCSPA facility. Regular access is defined as an individual that will access the facility five (5) times in a 365 day period. Regular Access Users include but are not limited to; Port Employees, Port Tenants, Stevedores, Contractors, Longshoremen, Vendors, Truck Drivers, Customers, etc.
 - b. Individuals without a TWIC will be granted a maximum of thirty (30) escorted facility visits.
 - c. Individuals without a TWIC must apply for their TWIC card before the expiration of their thirtieth (30th) visit.
 - d. Individuals without a TWIC must produce a payment receipt, or an enrollment email confirmation before the expiration of their thirtieth (30th) escorted visit. Failure to do so will result in their access to NCSPA restricted or secure areas being denied.
 - e. Individuals who have applied for their TWIC card and are waiting for its arrival can present their payment receipt, or the enrollment email confirmation to port police and the individual will be granted an additional thirty (30) consecutive calendar days of escorted access. In the event the individuals TWIC card is delayed beyond thirty (30) days, the individual can present a letter from TSA explaining why their card has been delayed to receive an extension.
 - f. Individuals who are denied a TWIC by TSA will not be granted access to any NCSPA restricted or secure areas.

County : Brunswick, New Hanover

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0106000000-E	230	BORROW EXCAVATION	860 CY		
0003	1220000000-E	545	INCIDENTAL STONE BASE	535 TON		
0004	1245000000-E	SP	SHOULDER RECONSTRUCTION	17.83 SMI		
0005	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	207,529 SY		
0006	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/4")	2,628 SY		
0007	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (2")	105,260 SY		
0008	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 1-1/2")	7,073 SY		
0009	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 1-1/4")	3,061 SY		
0010	1330000000-E	607	INCIDENTAL MILLING	6,748 SY		
0011	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	7,644 TON		
0012	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	3,000 TON		
0013	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	48,560 TON		
0014	1520000000-E	SP	ASPHALT CONC SURFACE COURSE, TYPE S9.5B (LEVELING COURSE)	338 TON		
0015	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	2,930 TON		
0016	1526000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S4.75A	3,345 TON		

County : Brunswick, New Hanover

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0017	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	3,822	TON	
0018	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	8,045	LF	
0019	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (FULL DEPTH)	142	TON	
0020	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL) I19.0C	1,350	TON	
0021	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL) S9.5C	300	TON	
0022	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL)	1,770	TON	
0023	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	1	EA	
0024	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	40	LF	
0025	2591000000-E	848	4" CONCRETE SIDEWALK	7	SY	
0026	2605000000-N	848	CONCRETE CURB RAMPS	1	EA	
0027	2612000000-E	848	6" CONCRETE DRIVEWAY	70	SY	
0028	2613000000-N	848	REMOVE AND REPLACE CURB RAMPS	5	EA	
0029	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	80	SY	
0030	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	85	SY	
0031	2738000000-E	SP	GENERIC PAVING ITEM REMOVE & REPLACE 4" CONC SIDE- WALK	24	SY	
0032	2738000000-E	SP	GENERIC PAVING ITEM REMOVE & REPLACE 5" MONOLITHIC CONC ISLANDS	146	SY	

County : Brunswick, New Hanover

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0033	2738000000-E	SP	GENERIC PAVING ITEM REMOVE MONOLITHIC CONC ISLAND	38 SY		
0034	2752000000-E	SP	GENERIC PAVING ITEM REMOVE & REPLACE 2'-0" CURB & GUTTER	195 LF		
0035	2752000000-E	SP	GENERIC PAVING ITEM REMOVE & REPLACE 2'-6" CURB & GUTTER	155 LF		
0036	2759000000-N	SP	GENERIC PAVING ITEM ADJUSTMENT OF MONUMENTS	178 EA		
0037	2830000000-N	858	ADJUSTMENT OF MANHOLES	86 EA		
0038	2845000000-N	858	ADJUSTMENT OF METER BOXES OR VALVE BOXES	32 EA		
0039	3000000000-N	SP	IMPACT ATTENUATOR UNIT, TYPE 350	1 EA		
0040	3030000000-E	862	STEEL BEAM GUARDRAIL	100 LF		
0041	3060000000-E	862	STEEL BEAM GUARDRAIL, DOUBLE FACED	275 LF		
0042	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	14 EA		
0043	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	7 EA		
0044	3215000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE III	2 EA		
0045	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	8 EA		
0046	3420000000-E	SP	GENERIC GUARDRAIL ITEM REMOVE & REPLACE EXISTING GUARDRAIL	6,150 LF		
0047	4413000000-E	SP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	3,136 SF		
0048	4457000000-N	SP	TEMPORARY TRAFFIC CONTROL	Lump Sum	L.S.	
0049	4510000000-N	1190	LAW ENFORCEMENT	960 HR		

County : Brunswick, New Hanover

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0050	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	243,635 LF		
0051	4686000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	132,306 LF		
0052	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	15,269 LF		
0053	4697000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	3,280 LF		
0054	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	2,325 LF		
0055	4705000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)	100 LF		
0056	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	2,001 LF		
0057	4721000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	108 EA		
0058	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	508 EA		
0059	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	852 EA		
0060	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	2,440 EA		
0061	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0062	6000000000-E	1605	TEMPORARY SILT FENCE	446 LF		
0063	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	112 TON		
0064	6012000000-E	1610	SEDIMENT CONTROL STONE	112 TON		
0065	6015000000-E	1615	TEMPORARY MULCHING	4.46 ACR		
0066	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	223 LB		
0067	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	0.47 TON		

County : Brunswick, New Hanover

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0068	6036000000-E	1631	MATTING FOR EROSION CONTROL	40	SY	
0069	6042000000-E	1632	1/4" HARDWARE CLOTH	224	LF	
0070	6071010000-E	SP	WATTLE	80	LF	
0071	6084000000-E	1660	SEEDING & MULCHING	6.49	ACR	
0072	6090000000-E	1661	SEED FOR REPAIR SEEDING	223	LB	
0073	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	1.12	TON	
0074	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	3	EA	
0075	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	6	EA	
0076	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	15,616	LF	
0077	7456000000-E	1726	LEAD-IN CABLE (***** (14-2)	2,400	LF	

1035/Jan18/Q849078.37/D270268110000/E77

Total Amount Of Bid For Entire Project :

GFE
MBE GOAL SET: 3.00%
MBE GOAL OBT: 2.43%
WBE GOAL SET: 4.00%
WBE GOAL OBT: 4.08%

**Vendor 1 of 3: HIGHLAND PAVING COMPANY LLC (5019)
Call Order 001 (Proposal: C204135)**

Bid Information

Proposal County: NEW HANOVER	Bid Checksum: 95288A7F
Vendor Address: PO Box 64553 Fayetteville , NC , 28306	Bid Total: \$8,195,922.73
Signature Check: Albert_O_McCauley_5019	Items Total: \$8,195,922.73
Time Bid Received: February 20, 2018 01:41 PM	Time Total: \$0.00
Amendment Count: 0	

Bidding Errors:

DBE Warning : MBE Warning: MBE Commitment Goal not met
DBE Warning : DBEName PURPOSE DRIVEN SEE not chosen fr

Vendor 1 of 3: HIGHLAND PAVING COMPANY LLC (5019)
Call Order 001 (Proposal: C204135)

Bid Bond Information

Projects:	Bond Maximum:
Counties:	State of Incorporation:
Bond ID: SNC18357750	Agency Execution Date: 2/9/2018 3
Paid by Check: No	Surety Name: surety2000
Bond Percent: 5%	Bond Agency Name: Great American Insurance Company

Bidder 1 of 3

Vendor 5019's Bid Information for Call 001, Letting L180220, 02/20/18

Highland Paving Co, LLC (5019)
 Call Order 001 (Proposal ID C204135)

LIST OF MBE PARTICIPANTS

VENDOR NUMBER	DBE NAME ADDRESS	WORK CODE TYPE OF WORK	CERT TYPE AMOUNT	
10486	JAMES L MORGAN TRUCKING 2090 TURKEY TRAP RD SW , SUPPLY, NC 28462		Sub 157,620.00	COMMITTED
6189	PURPOSE DRIVEN SEEDING & MULCHI 1337 BRAYBOY RD , ROWLAND, NC 28383		Sub 41,395.00	COMMITTED
			TOTAL: \$199,015.00 2.43%	

Vendor 5019's Bid Information for Call 001, Letting L180220, 02/20/18

Highland Paving Co, LLC (5019)
 Call Order 001 (Proposal ID C204135)

LIST OF WBE PARTICIPANTS

VENDOR NUMBER	DBE NAME ADDRESS	WORK CODE TYPE OF WORK	CERT TYPE AMOUNT	
11462	WHITLEY CONTRACTING INC 5735 BROGDEN ROAD , SMITHFIELD, NC 27577		Sup 276,660.00	COMMITTED
3376	REYNOLDS FENCE & GUARDRAIL INC 9320 MACHADO DRIVE , INDIAN TRAIL, NC 28079		Sub 157,242.50	COMMITTED
3631	MAR-TECH LAND DEVELOPERS INC 1956 GOOSE CREEK RD SW , SHALLOTTE, NC 28470		Sub 11,500.00	COMMITTED
			TOTAL: \$334,738.50 4.08%	

Vendor 5019's Bid Information for Call 001, Letting L180220, 02/20/18

Highland Paving Co, LLC (5019)
 Call Order 001 (Proposal ID C204135)

Miscellaneous Data Info - Contractor Responses:
 =====

NON-COLLUSION AND DEBARMENT CERTIFICATION

Explanation of the prospective bidder that is unable to certify to any of the statements in this certification:

Explanation:
 NOT ANSWERED
 NOT ANSWERED
 NOT ANSWERED
 NOT ANSWERED

AWARD LIMITS ON MULTIPLE PROJECTS

By answering YES to this statement, the bidder acknowledges that they are using the award limits on multiple projects. No

Bidder 1 of 3

It is the desire of the Bidder to be awarded contracts, the value of which will not exceed a total of NOT ANSWERED for those projects indicated herein, for which bids will be opened on (MM/DD/YY)

The Award Limits shall apply to the following projects:

Contract Number	County
NOT ANSWERED	
NOT ANSWERED	
NOT ANSWERED	
NOT ANSWERED	
NOT ANSWERED	
NOT ANSWERED	

Bid Bond Data Info - Contractor Responses:

=====

BondID: SNC18357750
 Surety Registry Agency: surety2000
 Verified?: Yes
 Surety Agency: Great American Insurance Company
 Bond Execution Date: 2/9/2018 3
 Bond Amount: \$409,796.14 (Five Percent of Bid)

Contract ID: C204135 Project(s): STATE FUNDED

Letting Date: 02-20-18 Call Order: 001

Bidder: 5019 - Highland Paving Co, LLC

Line No.	Item Description	Approx. Quantity and Units	Unit Price Dollars Cts	Bid Amount Dollars Ct
Section 0001 ROADWAY ITEMS				
Alt Group				
0001	0000100000-N MOBILIZATION	LUMP	LUMP	407,000.00
0002	0106000000-E BORROW EXCAVATION	860.000 CY	30.00000	25,800.00
0003	1220000000-E INCIDENTAL STONE BASE	535.000 TON	76.00000	40,660.00
0004	1245000000-E SHOULDER RECONSTRUCTION	17.830 SMI	3,350.00000	59,730.50
0005	1297000000-E MILLING ASPHALT PAVEMENT, ***"DEPTH (1-1/2")	207,529.000 SY	1.50000	311,293.50
0006	1297000000-E MILLING ASPHALT PAVEMENT, ***"DEPTH (1-1/4")	2,628.000 SY	3.50000	9,198.00
0007	1297000000-E MILLING ASPHALT PAVEMENT, ***"DEPTH (2")	105,260.000 SY	2.00000	210,520.00
0008	1308000000-E MILLING ASPHALT PAVEMENT, ***"TO *****" (0" TO 1-1/2")	7,073.000 SY	3.40000	24,048.20
0009	1308000000-E MILLING ASPHALT PAVEMENT, ***"TO *****" (0" TO 1-1/4")	3,061.000 SY	4.00000	12,244.00
0010	1330000000-E INCIDENTAL MILLING	6,748.000 SY	17.50000	118,090.00
0011	1491000000-E ASPHALT CONC BASE COURSE, TYPE B25.0C	7,644.000 TON	68.00000	519,792.00

Dept of Transportation

Revised:

Contract ID: C204135

Project(s): STATE FUNDED

Letting Date: 02-20-18 Call Order: 001

Bidder: 5019 - Highland Paving Co, LLC

Line No.	Item Description	Approx. Quantity and Units	Unit Price Dollars Cts	Bid Amount Dollars Ct
0012	1503000000-E ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	3,000.000 TON	51.85000	155,550.00
0013	1519000000-E ASPHALT CONC SURFACE COURSE, TYPE S9.5B	48,560.000 TON	51.00000	2,476,560.00
0014	1520000000-E ASPHALT CONC SURFACE COURSE, TYPE S9.5B (LEVELING COURSE)	338.000 TON	61.00000	20,618.00
0015	1523000000-E ASPHALT CONC SURFACE COURSE, TYPE S9.5C	2,930.000 TON	51.00000	149,430.00
0016	1526000000-E ASPHALT CONC SURFACE COURSE, TYPE S4.75A	3,345.000 TON	63.00000	210,735.00
0017	1575000000-E ASPHALT BINDER FOR PLANT MIX	3,822.000 TON	399.00000	1,524,978.00
0018	1840000000-E MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	8,045.000 LF	1.10000	8,849.50
0019	1880000000-E GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (FULL DEPTH)	142.000 TON	175.00000	24,850.00
0020	1880000000-E GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL) I19.0C	1,350.000 TON	140.00000	189,000.00
0021	1880000000-E GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL) S9.5C	300.000 TON	170.00000	51,000.00

Dept of Transportation

Revised:

Contract ID: C204135

Project(s): STATE FUNDED

Letting Date: 02-20-18 Call Order: 001

Bidder: 5019 - Highland Paving Co, LLC

Line No.	Item Description	Approx. Quantity and Units	Unit Price Dollars Cts	Bid Amount Dollars Ct
0022	1880000000-E GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL)	1,770.000 TON	185.00000	327,450.00
0023	2451000000-N CONCRETE TRANSITIONAL SECTION FOR DROP INLET	1.000 EA	1,500.00000	1,500.00
0024	2549000000-E 2'-6" CONCRETE CURB & GUTTER	40.000 LF	52.50000	2,100.00
0025	2591000000-E 4" CONCRETE SIDEWALK	7.000 SY	100.00000	700.00
0026	2605000000-N CONCRETE CURB RAMPS	1.000 EA	2,500.00000	2,500.00
0027	2612000000-E 6" CONCRETE DRIVEWAY	70.000 SY	72.00000	5,040.00
0028	2613000000-N REMOVE AND REPLACE CURB RAMPS	5.000 EA	2,750.00000	13,750.00
0029	2647000000-E 5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	80.000 SY	80.00000	6,400.00
0030	2655000000-E 5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	85.000 SY	90.00000	7,650.00
0031	2738000000-E GENERIC PAVING ITEM REMOVE & REPLACE 4" CONC SIDE-WALK	24.000 SY	100.00000	2,400.00
0032	2738000000-E GENERIC PAVING ITEM REMOVE & REPLACE 5" MONOLITHIC CONC ISLANDS	146.000 SY	75.00000	10,950.00

Dept of Transportation

Revised:

Contract ID: C204135

Project(s): STATE FUNDED

Letting Date: 02-20-18 Call Order: 001

Bidder: 5019 - Highland Paving Co, LLC

Line No.	Item Description	Approx. Quantity and Units	Unit Price Dollars Cts	Bid Amount Dollars Ct
0033	2738000000-E GENERIC PAVING ITEM REMOVE & MONOLITHIC CONC ISLAND	38.000 SY	40.00000	1,520.00
0034	2752000000-E GENERIC PAVING ITEM REMOVE & REPLACE 2'-0" CURB & GUTTER	195.000 LF	70.00000	13,650.00
0035	2752000000-E GENERIC PAVING ITEM REMOVE & REPLACE 2'-6" CURB & GUTTER	155.000 LF	80.00000	12,400.00
0036	2759000000-N GENERIC PAVING ITEM ADJUSTMENT OF MONUMENTS	178.000 EA	600.00000	106,800.00
0037	2830000000-N ADJUSTMENT OF MANHOLES	86.000 EA	600.00000	51,600.00
0038	2845000000-N ADJUSTMENT OF METER BOXES OR VALVE BOXES	32.000 EA	600.00000	19,200.00
0039	3000000000-N IMPACT ATTENUATOR UNIT, TYPE 350	1.000 EA	15,000.00000	15,000.00
0040	3030000000-E STEEL BEAM GUARDRAIL	100.000 LF	15.75000	1,575.00
0041	3060000000-E STEEL BEAM GUARDRAIL, DOUBLE FACED	275.000 LF	22.00000	6,050.00
0042	3150000000-N ADDITIONAL GUARDRAIL POSTS	14.000 EA	30.00000	420.00
0043	3210000000-N GUARDRAIL END UNITS, TYPE CAT-1	7.000 EA	695.00000	4,865.00

Dept of Transportation

Revised:

Contract ID: C204135

Project(s): STATE FUNDED

Letting Date: 02-20-18 Call Order: 001

Bidder: 5019 - Highland Paving Co, LLC

Line No.	Item Description	Approx. Quantity and Units	Unit Price Dollars Cts	Bid Amount Dollars Ct
0044	3215000000-N GUARDRAIL ANCHOR UNITS, TYPE III	2.000 EA	1,560.00000	3,120.00
0045	3287000000-N GUARDRAIL END UNITS, TYPE TL-3	8.000 EA	2,900.00000	23,200.00
0046	3420000000-E GENERIC GUARDRAIL ITEM REMOVE & REPLACE EXISTING GUARDRAIL	6,150.000 LF	16.75000	103,012.50
0047	4413000000-E WORK ZONE ADVANCE/GENERAL WARNING SIGNING	3,136.000 SF	6.70000	21,011.20
0048	4457000000-N TEMPORARY TRAFFIC CONTROL	LUMP	LUMP	237,400.00
0049	4510000000-N LAW ENFORCEMENT	960.000 HR	50.00000	48,000.00
0050	4685000000-E THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	243,635.000 LF	0.54000	131,562.90
0051	4686000000-E THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	132,306.000 LF	0.58000	76,737.48
0052	4695000000-E THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	15,269.000 LF	1.05000	16,032.45
0053	4697000000-E THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	3,280.000 LF	1.12000	3,673.60
0054	4700000000-E THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	2,325.000 LF	2.50000	5,812.50

Dept of Transportation

Revised:

Contract ID: C204135

Project(s): STATE FUNDED

Letting Date: 02-20-18 Call Order: 001

Bidder: 5019 - Highland Paving Co, LLC

Line No.	Item Description	Approx. Quantity and Units	Unit Price Dollars Cts	Bid Amount Dollars Ct
0055	4705000000-E THERMOPLAST IC PAVEMENT MARKING LINES (16", 120 MILS)	100.000 LF	10.00000	1,000.00
0056	4710000000-E THERMOPLAST IC PAVEMENT MARKING LINES (24", 120 MILS)	2,001.000 LF	10.00000	20,010.00
0057	4721000000-E THERMOPLAST IC PAVEMENT MARKING CHARACTER (120 MILS)	108.000 EA	105.00000	11,340.00
0058	4725000000-E THERMOPLAST IC PAVEMENT MARKING SYMBOL (90 MILS)	508.000 EA	90.00000	45,720.00
0059	4900000000-N PERMANENT RAISED PAVEMENT MARKERS	852.000 EA	4.80000	4,089.60
0060	4905000000-N SNOWPLOWABLE PAVEMENT MARKERS	2,440.000 EA	27.65000	67,466.00
0061	5255000000-N PORTABLE LIGHTING	LUMP	LUMP	60,500.00
0062	6000000000-E TEMPORARY SILT FENCE	446.000 LF	5.00000	2,230.00
0063	6009000000-E STONE FOR EROSION CONTROL, CLASS B	112.000 TON	94.00000	10,528.00
0064	6012000000-E SEDIMENT CONTROL STONE	112.000 TON	70.00000	7,840.00
0065	6015000000-E TEMPORARY MULCHING	4.460 ACR	2,000.00000	8,920.00

Dept of Transportation

Revised:

Contract ID: C204135

Project(s): STATE FUNDED

Letting Date: 02-20-18 Call Order: 001

Bidder: 5019 - Highland Paving Co, LLC

Line No.	Item Description	Approx. Quantity and Units	Unit Price Dollars Cts	Bid Amount Dollars Ct
0066	6018000000-E SEED FOR TEMPORARY SEEDING	223.000 LB	5.00000	1,115.00
0067	6021000000-E FERTILIZER FOR TEMPORARY SEED-ING	0.470 TON	1,500.00000	705.00
0068	6036000000-E MATTING FOR EROSION CONTROL	40.000 SY	10.00000	400.00
0069	6042000000-E 1/4" HARDWARE CLOTH	224.000 LF	5.00000	1,120.00
0070	6071010000-E WATTLE	80.000 LF	8.00000	640.00
0071	6084000000-E SEEDING & MULCHING	6.490 ACR	3,000.00000	19,470.00
0072	6090000000-E SEED FOR REPAIR SEEDING	223.000 LB	15.00000	3,345.00
0073	6093000000-E FERTILIZER FOR REPAIR SEEDING	1.120 TON	1,500.00000	1,680.00
0074	6117000000-N RESPONSE FOR EROSION CONTROL	3.000 EA	1,000.00000	3,000.00
0075	7324000000-N JUNCTION BOX (STANDARD SIZE)	6.000 EA	191.00000	1,146.00
0076	7444000000-E INDUCTIVE LOOP SAWCUT	15,616.000 LF	5.55000	86,668.80
0077	7456000000-E LEAD-IN CABLE (*****)(14-2)	2,400.000 LF	1.65000	3,960.00

Contract ID: C204135

Project(s): STATE FUNDED

Letting Date: 02-20-18 Call Order: 001

Bidder: 5019 - Highland Paving Co, LLC

Line No.	Item Description	Approx. Quantity and Units	Unit Price Dollars Cts	Bid Amount Dollars Ct
	Section 0001 Total			8,195,922.73
	Bid Total			8,195,922.73

NON-COLLUSION AND DEBARMENT CERTIFICATION

The bidder certifies that neither he, nor any official, agent or employee of the bidder has entered into any agreement, participated in any collusion, or otherwise taken any action which is in restraint of free competitive bidding in connection with this bid, and that the bidder intends to do the work with its own bonafide employees or subcontractors and is not bidding for the benefit of another contractor. In addition, submitting this electronic bid constitutes the bidder's certification of Status under penalty of perjury under the laws of the United States and in accordance with the Debarment Certification on file with the Department.

By submitting this bid, the bidder certifies to the best of his knowledge and belief that he and his principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records; making false statements; or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph b. of this certification; and
- d. Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Where the prospective bidder is unable to certify to any of the statements in this certification, the bidder shall submit an explanation in the blanks provided herein. The explanation will not necessarily result in denial of participation in a contract.

Explanation:
NOT ANSWERED
NOT ANSWERED
NOT ANSWERED
NOT ANSWERED

If the prequalified bidder's status changes, he shall immediately submit a new fully executed non-collusion affidavit and debarment certification with an explanation of the change to the Contract Office prior to submitting the bid.

Failure to furnish a certification or an explanation will be grounds for rejection of a bid

AWARD LIMITS ON MULTIPLE PROJECTS

By answering YES to this statement, the bidder acknowledges that they are using the award limits on multiple projects. No

A bidder who desires to bid on more than one project on which bids are to be opened on the same date, and who also desires to avoid receiving an award of more projects than he is equipped to handle, may bid on any number of projects but may limit the total amount of work awarded to him on selected projects by completing the AWARD LIMITS ON MULTIPLE PROJECTS.

The Award Limits on Multiple Projects must be filled in on each project bid for which the Bidder desires protection.

It is the desire of the Bidder to be awarded contracts, the value of which will not exceed a total of NOT ANSWERED for those projects indicated herein, for which bids will be opened on (MM/DD/YY)

The Award Limits shall apply to the following projects:

Contract Number	County
NOT ANSWERED	
NOT ANSWERED	
NOT ANSWERED	
NOT ANSWERED	
NOT ANSWERED	
NOT ANSWERED	

It is agreed that if I am (we are) the low Bidder(s) on indicated projects, the total value of which is more than the above stipulated award limits, the Board of Transportation will award me (us) projects from among those indicated that have a total value not to exceed the award limit and will result in the lowest total bids to the Department of Transportation.

PROPOSAL: C204135
 LETTING: L180220 CALL: 001
 VENDOR: 5019 Highland Paving Co, LLC

 LINE ITEM ITEM UNIT SUBCONTRACTOR SUBCONTRACTOR EXTENDED
 NO. NO. DESC. TYPE QUANTITY UNIT PRICE AMOUNT

MBE SUBCONTRACTOR: 10486 JAMES L MORGAN TRUCKING
 Will Use Quote: Yes

0013	1519000000-E	ASP CONC SUR	TON	12500.000	6.50000	81250.00
		Haul Asphalt				
0015	1523000000-E	ASP CONC SUR	TON	700.000	5.35000	3745.00
		Haul Asphalt				
0063	6009000000-E	EROS CONTRL	TON	100.000	10.00000	1000.00
		Haul Stone				
0064	6012000000-E	SEDIMENT CON	TON	100.000	10.00000	1000.00
		Haul Stone				
0007	1297000000-E	MILL ASP PVM	SY	20000.000	0.50000	10000.00
		Haul Hourly				
0022	1880000000-E	GENERIC PAVI	TON	250.000	15.00000	3750.00
		Hourly Haul				
0016	1526000000-E	ASP CONC SUR	TON	500.000	6.50000	3250.00
0020	1880000000-E	GENERIC PAVI	TON	250.000	15.00000	3750.00
		Hourly Haul				
0005	1297000000-E	MILL ASP PVM	SY	50000.000	0.50000	25000.00
		Hourly Haul				
0012	1503000000-E	ASP CONC INT	TON	750.000	6.50000	4875.00
		Hourly Haul				
0011	1491000000-E	ASP CONC BAS	TON	2000.000	10.00000	20000.00
		Hourly Haul				

MBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 157,620.00

MBE SUBCONTRACTOR: 6189 PURPOSE DRIVEN SEEDING & MULCHING,
 Will Use Quote: Yes

0065	6015000000-E	TEMPORARY MU	ACR	4.460	2000.00000	8920.00
0066	6018000000-E	SEED FOR TEM	LB	223.000	5.00000	1115.00
0067	6021000000-E	FERT FOR TEM	TON	0.470	1500.00000	705.00
0068	6036000000-E	MATTING FOR	SY	40.000	10.00000	400.00
0069	6042000000-E	1/4" HARDWAR	LF	224.000	5.00000	1120.00
0070	6071010000-E	WATTLE	LF	80.000	8.00000	640.00
0071	6084000000-E	SEEDING AND	ACR	6.490	3000.00000	19470.00
0072	6090000000-E	SEED FOR REP	LB	223.000	15.00000	3345.00
0073	6093000000-E	FERT FOR REP	TON	1.120	1500.00000	1680.00
0074	6117000000-N	RESPONSE FOR	EA	3.000	1000.00000	3000.00
0001	0000100000-N	MOBILIZATION	LS	1.000	1000.00000	1000.00

MBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 41,395.00

TOTAL MBE COMMITMENT FOR VENDOR:

Entered: 2.43% or 199015.00
Required: 3.00% or 245877.68
<GOAL NOT MET>

WBE COMMITMENT ITEMS

PROPOSAL: C204135
 LETTING: L180220 CALL: 001
 VENDOR: 5019 Highland Paving Co, LLC

 LINE ITEM ITEM UNIT SUBCONTRACTOR SUBCONTRACTOR EXTENDED
 NO. NO. DESC. TYPE QUANTITY UNIT PRICE AMOUNT

WBE SUBCONTRACTOR: 11462 WHITLEY CONTRACTING INC
 Will Use Quote: Yes

0023	2451000000-N	CONC TRANS S EA	1.000	1500.00000	1500.00
0024	2549000000-E	2'-6" CONC C LF	40.000	52.50000	2100.00
0025	2591000000-E	4" CONCRETE SY	7.000	100.00000	700.00
0026	2605000000-N	CONCRETE CUR EA	1.000	2500.00000	2500.00
0027	2612000000-E	6" CONCRETE SY	70.000	72.00000	5040.00
0028	2613000000-N	REM & REP CU EA	5.000	2750.00000	13750.00
0029	2647000000-E	5" MONO CONC SY	80.000	80.00000	6400.00
0030	2655000000-E	5" MONO CONC SY	85.000	90.00000	7650.00
0031	2738000000-E	GENERIC PAVI SY	24.000	100.00000	2400.00
0032	2738000000-E	GENERIC PAVI SY	146.000	75.00000	10950.00
0033	2738000000-E	GENERIC PAVI SY	38.000	40.00000	1520.00
0034	2752000000-E	GENERIC PAVI LF	195.000	70.00000	13650.00
0035	2752000000-E	GENERIC PAVI LF	155.000	80.00000	12400.00
0036	2759000000-N	GENERIC PAVI EA	178.000	600.00000	106800.00
0037	2830000000-N	ADJ MANHOLES EA	86.000	600.00000	51600.00
0038	2845000000-N	ADJ METER OR EA	32.000	600.00000	19200.00
0001	0000100000-N	MOBILIZATION LS	1.000	18500.00000	18500.00

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 276,660.00

WBE SUBCONTRACTOR: 3376 REYNOLDS FENCE & GUARDRAIL INC
 Will Use Quote: Yes

0039	3000000000-N	IMPACT ATTEN EA	1.000	15000.00000	15000.00
0040	3030000000-E	STL BEAM GUA LF	100.000	15.75000	1575.00
0041	3060000000-E	SBGR DOUBLE LF	275.000	22.00000	6050.00
0042	3150000000-N	ADDIT GUARDR EA	14.000	30.00000	420.00
0043	3210000000-N	GR END TYPE EA	7.000	695.00000	4865.00
0044	3215000000-N	GR ANCHOR TY EA	2.000	1560.00000	3120.00
0045	3287000000-N	GR END TYPE EA	8.000	2900.00000	23200.00
0046	3420000000-E	GENERIC GUAR LF	6150.000	16.75000	103012.50

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 157,242.50

WBE SUBCONTRACTOR: 3631 MAR-TECH LAND DEVELOPERS INC
 Will Use Quote: Yes

0013	1519000000-E	ASP CONC SUR TON	1000.000	6.50000	6500.00
		Hourly Haul			
0005	1297000000-E	MILL ASP PVM SY	10000.000	0.50000	5000.00
		Hourly Haul			

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 11,500.00

TOTAL WBE COMMITMENT FOR VENDOR:

Entered: 4.08% or 334738.50
Required: 4.00% or 327836.91
<GOAL MET>

THIS PROPOSAL CONTAINS THE FOLLOWING ERRORS/WARNINGS (IF ANY)

DBE Warning : MBE Warning: MBE Commitment Goal not met

DBE Warning : DBEName PURPOSE DRIVEN SEE not chosen from list (MBE #2)

This Bid contains 0 amendment files

Electronic Bid Submission

By submitting this bid electronically, I hereby acknowledge that all requirements included in the hard copy proposal, addendum, amendments, plans, standard specifications, supplemental specifications and special provisions are part of the bid and contract. Further, I acknowledge that I have read, understand, accept, acknowledge and agree to comply with all statements in this electronic bid.

I Hereby certify that I have the authority to submit this bid.

Signature

Agency

Date

Contract Item Sheets For C204135

Line #	ItemNumber	Sec #	Description	Quantity Unit	Unit Bid Price	Amount Bid
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum LS	407,000.00	407,000.00
0002	0106000000-E	230	BORROW EXCAVATION	860 CY	30.00	25,800.00
0003	1220000000-E	545	INCIDENTAL STONE BASE	535 TON	76.00	40,660.00
0004	1245000000-E	SP	SHOULDER RECONSTRUCTION	17.83 SMI	3,350.00	59,730.50
0005	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	207,529 SY	1.50	311,293.50
0006	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/4")	2,628 SY	3.50	9,198.00
0007	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (2")	105,260 SY	2.00	210,520.00
0008	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 1-1/2")	7,073 SY	3.40	24,048.20
0009	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 1-1/4")	3,061 SY	4.00	12,244.00
0010	1330000000-E	607	INCIDENTAL MILLING	6,748 SY	17.50	118,090.00
0011	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	7,644 TON	68.00	519,792.00
0012	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	3,000 TON	51.85	155,550.00
0013	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	48,560 TON	51.00	2,476,560.00
0014	1520000000-E	SP	ASPHALT CONC SURFACE COURSE, TYPE S9.5B (LEVELING COURSE)	338 TON	61.00	20,618.00
0015	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	2,930 TON	51.00	149,430.00
0016	1526000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S4.75A	3,345 TON	63.00	210,735.00
0017	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	3,822 TON	399.00	1,524,978.00

Contract Item Sheets For C204135

Line #	ItemNumber	Sec #	Description	Quantity Unit	Unit Bid Price	Amount Bid
0018	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	8,045 LF	1.10	8,849.50
0019	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (FULL DEPTH)	142 TON	175.00	24,850.00
0020	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL) I19.0C	1,350 TON	140.00	189,000.00
0021	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL) S9.5C	300 TON	170.00	51,000.00
0022	1880000000-E	SP	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL)	1,770 TON	185.00	327,450.00
0023	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	1 EA	1,500.00	1,500.00
0024	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	40 LF	52.50	2,100.00
0025	2591000000-E	848	4" CONCRETE SIDEWALK	7 SY	100.00	700.00
0026	2605000000-N	848	CONCRETE CURB RAMPS	1 EA	2,500.00	2,500.00
0027	2612000000-E	848	6" CONCRETE DRIVEWAY	70 SY	72.00	5,040.00
0028	2613000000-N	848	REMOVE AND REPLACE CURB RAMPS	5 EA	2,750.00	13,750.00
0029	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	80 SY	80.00	6,400.00
0030	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	85 SY	90.00	7,650.00
0031	2738000000-E	SP	GENERIC PAVING ITEM REMOVE & REPLACE 4" CONC SIDE- WALK	24 SY	100.00	2,400.00
0032	2738000000-E	SP	GENERIC PAVING ITEM REMOVE & REPLACE 5" MONOLITHIC CONC ISLANDS	146 SY	75.00	10,950.00
0033	2738000000-E	SP	GENERIC PAVING ITEM REMOVE MONOLITHIC CONC ISLAND	38 SY	40.00	1,520.00

Line #	ItemNumber	Sec #	Description	Quantity Unit	Unit Bid Price	Amount Bid
0034	2752000000-E	SP	GENERIC PAVING ITEM REMOVE & REPLACE 2'-0" CURB & GUTTER	195 LF	70.00	13,650.00
0035	2752000000-E	SP	GENERIC PAVING ITEM REMOVE & REPLACE 2'-6" CURB & GUTTER	155 LF	80.00	12,400.00
0036	2759000000-N	SP	GENERIC PAVING ITEM ADJUSTMENT OF MONUMENTS	178 EA	600.00	106,800.00
0037	2830000000-N	858	ADJUSTMENT OF MANHOLES	86 EA	600.00	51,600.00
0038	2845000000-N	858	ADJUSTMENT OF METER BOXES OR VALVE BOXES	32 EA	600.00	19,200.00
0039	3000000000-N	SP	IMPACT ATTENUATOR UNIT, TYPE 350	1 EA	15,000.00	15,000.00
0040	3030000000-E	862	STEEL BEAM GUARDRAIL	100 LF	15.75	1,575.00
0041	3060000000-E	862	STEEL BEAM GUARDRAIL, DOUBLE FACED	275 LF	22.00	6,050.00
0042	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	14 EA	30.00	420.00
0043	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	7 EA	695.00	4,865.00
0044	3215000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE III	2 EA	1,560.00	3,120.00
0045	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	8 EA	2,900.00	23,200.00
0046	3420000000-E	SP	GENERIC GUARDRAIL ITEM REMOVE & REPLACE EXISTING GUARDRAIL	6,150 LF	16.75	103,012.50
0047	4413000000-E	SP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	3,136 SF	6.70	21,011.20
0048	4457000000-N	SP	TEMPORARY TRAFFIC CONTROL	Lump Sum LS	237,400.00	237,400.00
0049	4510000000-N	1190	LAW ENFORCEMENT	960 HR	50.00	48,000.00
0050	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	243,635 LF	0.54	131,562.90

Line #	ItemNumber	Sec #	Description	Quantity Unit	Unit Bid Price	Amount Bid
0051	4686000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	132,306 LF	0.58	76,737.48
0052	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	15,269 LF	1.05	16,032.45
0053	4697000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	3,280 LF	1.12	3,673.60
0054	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	2,325 LF	2.50	5,812.50
0055	4705000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)	100 LF	10.00	1,000.00
0056	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	2,001 LF	10.00	20,010.00
0057	4721000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	108 EA	105.00	11,340.00
0058	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	508 EA	90.00	45,720.00
0059	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	852 EA	4.80	4,089.60
0060	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	2,440 EA	27.65	67,466.00
0061	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum LS	60,500.00	60,500.00
0062	6000000000-E	1605	TEMPORARY SILT FENCE	446 LF	5.00	2,230.00
0063	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	112 TON	94.00	10,528.00
0064	6012000000-E	1610	SEDIMENT CONTROL STONE	112 TON	70.00	7,840.00
0065	6015000000-E	1615	TEMPORARY MULCHING	4.46 ACR	2,000.00	8,920.00
0066	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	223 LB	5.00	1,115.00
0067	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	0.47 TON	1,500.00	705.00
0068	6036000000-E	1631	MATTING FOR EROSION CONTROL	40 SY	10.00	400.00

Contract Item Sheets For C204135

Line #	ItemNumber	Sec #	Description	Quantity Unit	Unit Bid Price	Amount Bid
0069	6042000000-E	1632	1/4" HARDWARE CLOTH	224 LF	5.00	1,120.00
0070	6071010000-E	SP	WATTLE	80 LF	8.00	640.00
0071	6084000000-E	1660	SEEDING & MULCHING	6.49 ACR	3,000.00	19,470.00
0072	6090000000-E	1661	SEED FOR REPAIR SEEDING	223 LB	15.00	3,345.00
0073	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	1.12 TON	1,500.00	1,680.00
0074	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	3 EA	1,000.00	3,000.00
0075	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	6 EA	191.00	1,146.00
0076	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	15,616 LF	5.55	86,668.80
0077	7456000000-E	1726	LEAD-IN CABLE (***** (14-2)	2,400 LF	1.65	3,960.00

TOTAL AMOUNT OF BID FOR ENTIRE PROJECT

\$8,195,922.73

Contract No. C20435
County Brunswick, New Hanover

Rev. 1-16-18

**EXECUTION OF CONTRACT
NON-COLLUSION, DEBARMENT AND GIFT BAN CERTIFICATION**

LIMITED LIABILITY COMPANY

The Contractor declares (or certifies, verifies, or states) under penalty of perjury under the laws of the United States that neither he, nor any official, agent or employee has entered into any agreement, participated in any collusion, or otherwise taken any action which is in restraint of free competitive bidding in connection with this Contract, that the Contractor has not been convicted of violating *N.C.G.S. § 133-24* within the last three years, and that the Contractor intends to do the work with its own bonafide employees or subcontractors and did not bid for the benefit of another contractor.

By submitting this Execution of Contract, Non-Collusion and Debarment Certification, the Contractor is certifying his status under penalty of perjury under the laws of the United States in accordance with the Debarment Certification attached, provided that the Debarment Certification also includes any required statements concerning exceptions that are applicable.

N.C.G.S. § 133-32 and Executive Order 24 prohibit the offer to, or acceptance by, any State Employee of any gift from anyone with a contract with the State, or from any person seeking to do business with the State. By execution of any response in this procurement, you attest, for your entire organization and its employees or agents, that you are not aware that any such gift has been offered, accepted, or promised by any employees of your organization.

SIGNATURE OF CONTRACTOR

High Hand Paving Co., LLC
Full Name of Firm

P.O. Box 1843, Fayetteville NC 28302
Address as Prequalified


Signature of Witness

David A. Byrd
Print or type Signer's name


Signature of Member/Manager/Authorized Agent
Select appropriate title

BRIAN RAYNOR
Print or type Signer's Name

DEBARMENT CERTIFICATION

Conditions for certification:

1. The prequalified bidder shall provide immediate written notice to the Department if at any time the bidder learns that his certification was erroneous when he submitted his debarment certification or explanation filed with the Department, or has become erroneous because of changed circumstances.
2. The terms *covered transaction, debarred, suspended, ineligible, lower tier covered transaction, participant, person, primary covered transaction, principal, proposal, and voluntarily excluded*, as used in this provision, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. A copy of the Federal Rules requiring this certification and detailing the definitions and coverages may be obtained from the Contract Officer of the Department.
3. The prequalified bidder agrees by submitting this form, that he will not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in NCDOT contracts, unless authorized by the Department.
4. For Federal Aid projects, the prequalified bidder further agrees that by submitting this form he will include the Federal-Aid Provision titled *Required Contract Provisions Federal-Aid Construction Contract (Form FHWA PR 1273)* provided by the Department, without subsequent modification, in all lower tier covered transactions.
5. The prequalified bidder may rely upon a certification of a participant in a lower tier covered transaction that he is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless he knows that the certification is erroneous. The bidder may decide the method and frequency by which he will determine the eligibility of his subcontractors.
6. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this provision. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
7. Except as authorized in paragraph 6 herein, the Department may terminate any contract if the bidder knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available by the Federal Government.

DEBARMENT CERTIFICATION

The prequalified bidder certifies to the best of his knowledge and belief, that he and his principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records; making false statements; or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph b. of this certification; and
- d. Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- e. Will submit a revised Debarment Certification immediately if his status changes and will show in his bid proposal an explanation for the change in status.

If the prequalified bidder cannot certify that he is not debarred, he shall provide an explanation with this submittal. An explanation will not necessarily result in denial of participation in a contract.

Failure to submit a non-collusion and debarment certification will result in the prequalified bidder's bid being considered non-responsive.

Check here if an explanation is attached to this certification.

Contract No. **C204135**

County (ies): **Brunswick, New Hanover**

ACCEPTED BY THE
DEPARTMENT OF TRANSPORTATION

DocuSigned by:
Ronald E. Davenport, Jr.
F81B6038A47A442...

Contract Officer

3/20/2018

Date

Execution of Contract and Bonds
Approved as to Form:

DocuSigned by:
Ebony Pittman
0702319F4AB64C2...

Attorney General

3/20/2018

Date

Contract No. C204135
 County Brunswick, New Hanover

CONTRACT PAYMENT BOND

Date of Payment Bond Execution 3-5-18

Name of Principal Contractor Highland Paving Company, LLC

Name of Surety: Great American Insurance Company

Name of Contracting Body: North Carolina Department of Transportation
Raleigh, North Carolina

Amount of Bond: \$8,195,922.73 Eight Million One Hundred Ninety Five Thousand
Nine Hundred Twenty Two and 73/100-----

Contract ID No.: C204135

County Name: Brunswick, New Hanover

KNOW ALL MEN BY THESE PRESENTS, That we, the PRINCIPAL CONTRACTOR (hereafter, PRINCIPAL) and SURETY above named, are held and firmly bound unto the above named Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal entered into a certain contract with the Contracting Body, numbered as shown above and hereto attached:

NOW THEREFORE, if the principal shall promptly make payment to all persons supplying labor and material in the prosecution of the work provided for in said contract, and any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Contract No.
County

C204135

Brunswick, New Hanover

Rev 2-1-10

CONTRACT PAYMENT BOND

Affix Seal of Surety Company



Great American Insurance Company

Print or type Surety Company Name

By Martha Ann Marley Long, Attorney-in-Fact

Print, stamp or type name of Attorney-in-Fact

Martha Ann Marley Long

Signature of Attorney-in-Fact

Pamela Rogers

Signature of Witness

Pamela Rogers

Print or type Signer's name

158 Huntington Lane, Mooresville, NC 28117

Address of Attorney-in-Fact

Contract No.
County

C204135

Brunswick, New Hanover

Rev 2-1-10

CONTRACT PAYMENT BOND

LIMITED LIABILITY COMPANY

SIGNATURE OF CONTRACTOR (Principal)

Name of Contractor

Highland Paving Company, LLC

Full name of Firm

PO Box 1843, Fayetteville, NC 28302

Address as prequalified

Signature of Member/Manager


Individually


Print or type Signer's name

Contract No. C204135
County Brunswick, New Hanover

Bond Number: CA 2191464

Rev 2-1-10

CONTRACT PERFORMANCE BOND

Date of Performance Bond Execution: 3-5-18

Name of Principal Contractor: Highland Paving Company, LLC

Name of Surety: Great American Insurance Company

Name of Contracting Body: North Carolina Department of Transportation
Raleigh, North Carolina

Amount of Bond: \$8,195,922.73 Eight Million One Hundred Ninety Five Thousand
Nine Hundred Twenty Two and 73/100-----

Contract ID No.: C204135

County Name: Brunswick, New Hanover

KNOW ALL MEN BY THESE PRESENTS, That we, the PRINCIPAL CONTRACTOR (hereafter, PRINCIPAL) and SURETY above named, are held and firmly bound unto the above named Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal entered into a certain contract with the Contracting Body, numbered as shown above and hereto attached:

NOW THEREFORE, if the principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the Contracting Body, with or without notice to the Surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Contract No. C204135
County Brunswick, New Hanover

Rev 2-1-10

CONTRACT PERFORMANCE BOND

Affix Seal of Surety Company

Great American Insurance Company

Print or type Surety Company Name



By Martha Ann Marley Long, Attorney-in-Fact
Print, stamp or type name of Attorney-in-Fact

Martha Ann Marley Long
Signature of Attorney-in-Fact

Pamela Rogers
Signature of Witness

Pamela Rogers
Print or type Signer's name

158 Huntington Lane, Mooresville, NC 28117
Address of Attorney-in-Fact

Contract No.
County

C204135

Brunswick, New Hanover

Rev 2-1-10

CONTRACT PERFORMANCE BOND

LIMITED LIABILITY COMPANY

SIGNATURE OF CONTRACTOR (Principal)

Name of Contractor

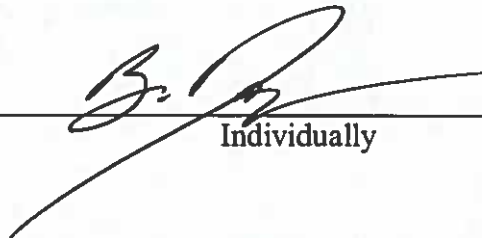
Highland Paving Company, LLC

Full name of Firm

PO Box 1843, Fayetteville, NC 28302

Address as prequalified

Signature of Member/Manager



Individually



Print or type Signer's name

GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-389-5000 • FAX 513-723-2740

The number of persons authorized by this power of attorney is not more than **ONE**

No. 0 15081

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name	Address	Limit of Power
MARTHA ANN MARLEY LONG	MOORESVILLE, NORTH CAROLINA	\$100,000,000

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this **21ST** day of **AUGUST** 2017
GREAT AMERICAN INSURANCE COMPANY

Attest



Steph C. B.
Assistant Secretary

David C. Kitchin
Divisional Senior Vice President

STATE OF OHIO, COUNTY OF HAMILTON - ss:

DAVID C. KITCHIN (877-377-2405)

On this **21ST** day of **AUGUST**, 2017, before me personally appeared **DAVID C. KITCHIN**, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



Susan A. Kohorst
Notary Public, State of Ohio
My Commission Expires 05-18-2020

Susan A. Kohorst

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, **STEPHEN C. BERHA**, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this

Steph day of *March*

2018



Steph C. B.
Assistant Secretary

