STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 3

PROPOSAL

DATE AND TIME OF BID OPENING: August 26, 2021 AT 2:00 PM

CONTRACT ID: DC00310

WBS ELEMENT NO.: 40233.3.2

FEDERAL AID NO.: STATE FUNDED

COUNTY: Pender County

TIP NO.: B-4929(L)

MILES: 0.83 MILES

ROUTE NO.: NC 50-210

LOCATION: BRIDGE NO. 16 OVER THE INTRACOASTAL WATERWAY

TYPE OF WORK: SURF CITY LANDSCAPE ENHANCEMENT

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.

THIS IS A LANDSCAPING PROJECT.

BID BONDS ARE REQUIRED.

NAME OF BIDDER

ADDRESS OF BIDDER

PROPOSAL FOR THE CONSTRUCTION OF CONTRACT No. DC00310 IN PENDER COUNTY, NORTH CAROLINA

Date	20
DEPARTMENT OF	RANSPORTATION,
RALEIGH, NOI	RTH CAROLINA

The Bidder has carefully examined the location of the proposed work to be known as Contract No. <u>DC00310</u>; 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 Department 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. <u>DC00310</u> in <u>Pender County</u>, 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 or Division Engineer.

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.

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PROPOSAL ITEM SHEET AND SIGNATURE SHEET

INSTRUCTIONS TO BIDDERS

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE PREPARING AND SUBMITTING YOUR BID.

All bids shall be prepared and submitted in accordance with the following requirements. Failure to comply with any requirement may cause the bid to be considered irregular and may be grounds for rejection of the bid.

For preparing and submitting the bid electronically, refer to Article 102-8(B) of the 2018 Standard Specifications.

Bidders that bid electronically on Raleigh Central-Let projects will need a separate Digital Signature from the approved electronic bidding provider for Division Contracts.

ELECTRONIC ON-LINE BID:

- 1. Download entire proposal from Connect NCDOT website. Download the electronic submittal file from the approved electronic bidding provider website.
- 2. Prepare and submit the electronic submittal file using the approved electronic bidding provider software.
- 3. Electronic bidding software necessary for electronic bid preparation may be downloaded from the Connect NCDOT website at: https://connect.ncdot.gov/letting/Pages/Electronic-Bidding.aspx or from the approved electronic bidding provider website.

PROJECT SPECIAL PROVISIONS

GENERAL

This project is for the Landscape Enhancement in Surf City, NC.

All work and materials shall be in accordance with the provisions of the General Guidelines of this contract, the Project Special Provisions, the North Carolina Department of Transportation 2018 Standard Specifications for Roads and Structures, the North Carolina Department of Transportation 2018 Roadway Standards Drawings, and the current edition of the Manual of Uniform Traffic Control Devices (MUTCD).

The Contractor shall keep himself fully informed of all Federal, State and local laws, ordinances, and regulations, and shall comply with the provisions of Section 107 of the 2018 Standard Specifications.

MANDATORY PRE-BID CONFERENCE AND PROPOSAL REVIEW

SPI 1-14

All prospective bidders shall attend a Mandatory Pre-Bid Conference as shown below:

Date: August 17th, 2021

Time: **10:00AM**

Place: Division Three Operations Building Conference Room **Location:** 5501 Barbados Blvd., Castle Hayne, NC 28429

County: New Hanover

Contact for Directions: 910-341-2001

NOTE: The Mandatory Pre-Bid Conference will begin promptly at 10:00AM. An official clock for the pre-bid conference will be designated. Contractors who are late will not be permitted to sign in or to participate in the conference.

Bidders are expected to make their own investigation of the site prior to the conference.

No questions concerning the project will be answered by any Department personnel at any time, except at the Mandatory Pre-Bid Conference.

This conference will be conducted by Department personnel for the purpose of providing additional information about the project and to give bidders an opportunity to ask any questions they may have.

The Engineer will explain areas of responsibility, standards of performance and expected results. This is also intended to be a time for the Contractor to raise questions as to the present condition of the facility. The Contractor is encouraged to make his/her own observations of the site(s) and may choose to have an electrician, plumber or other tradesman to assist him in determining the condition of the items identified in this contract as the Contractor's responsibility. For items that can be shown to the Department to be deficient, the Department may elect to: 1) repair or replace such item to bring it up to standard before the Contractor assumes responsibility, 2) not repair or replace such item, but remove this item from the Contractor's responsibility.

Any changes made to the contract during the pre-bid conference will be documented and included in an addendum. A copy of which to be provided to each qualified bidder. The addendum must be returned with the bid package, signed and dated. Failure to do so will result in disqualification of bid.

MANDATORY PRE-BID CONFERENCE: ELIGIBILITY TO BID

All prospective bidders at the Mandatory Pre-Bid Conference shall meet all of the requirements as shown below:

Only bidders who have attended the entire conference and properly registered at the Mandatory Pre-Bid Conference will be considered eligible to bid on this project. A bid received from a Bidder who has not attended and properly registered at the conference will be rejected as an irregular bid and will not be considered for award.

Attendance at the Mandatory Pre-Bid Conference will not meet the requirements of proper registration unless the individual attending has registered at the conference in accordance with the following:

- 1. The individual attending the Mandatory Pre-Bid Conference is a full time employee of the company being represented and has **administrative/supervisory** authority over the work to be performed under this contract.
- 2. The individual signs his/her name and company title on the official roster.
- 3. The individual writes in the name and address of the company he or she represents.
- 4. Only one company is shown as being represented by the individual attending.

Attendance at any prior pre-bid conference will not meet the requirement of this provision.

BOND REQUIREMENTS:

(06-01-16) 102-8, 102-10 SPD 01-420A

A Bid Bond is required in accordance with Article 102-10 of the 2018 Standard Specifications for Roads and Structures.

Contract Payment and Performance Bonds are required in accordance with Article 103-7 of the 2018 Standard Specifications for Roads and Structures.

CONTRACT TIME AND LIQUIDATED DAMAGES:

(7-1-95) (Rev. 12-18-07) 108 SP1 G10 A

The date of availability for this contract is **January 1, 2022**.

The completion date for this contract is January 1, 2024.

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 **Seven Hundred Dollars (\$ 700.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES

The Contractor shall complete the required work of **Lighting Installation** (Line Items 6-17), as shown on the plans and as directed by the Engineer and within any seasonal limitations for the specific task included herein.

The date of availability for this intermediate contract time will be January 1, 2022.

The completion date for this intermediate contract time will be **September 30, 2022.**

The liquidated damages are **Seven Hundred Dollars** (\$700.00) per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES

The Contractor shall complete the required work of **Hardscape**, **Irrigation**, **Flagpole**, **Gabion Bench Installation** (**Line Items 31-36**, **42-43**), as shown on the plans and as directed by the Engineer and within any seasonal limitations for the specific task included herein. Coordination between contractors will be critical so the installation of line items 6 - 17 and the installation of line items 31-36, 42-43 do not conflict with one another. Line items 6 - 17 shall be completed in an area prior to installation of line items 31-36, 42-43.

The date of availability for this intermediate contract time will be March 15, 2022.

The completion date for this intermediate contract time will be September 30, 2022.

The liquidated damages are **Seven Hundred Dollars** (\$700.00) per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES

The Contractor shall complete the required work of Landscape Planting (Line Items 18-30, 38-41, 44-45), as shown on the plans and as directed by the Engineer and within any seasonal limitations for the specific task included herein.

The date of availability for this intermediate contract time will be October 1, 2022.

The completion date for this intermediate contract time will be January 1, 2023.

The liquidated damages are **Seven Hundred Dollars** (\$700.00) per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 4 AND LIQUIDATED DAMAGES:

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 during the following time restrictions:

DAY AND TIME RESTRICTIONS: NO WORK ALLOWED ON THE DATES INDICATED IN THE CHART BELOW

Note: any work requested on these dates must be approved by NCDOT and Town of Surf City a minimum of 1 week prior to event. The list of dates are special events that take place within the Town limits of Surf City. There shall be no work conducted during these dates unless preapproval has been granted by the Town of Surf City and NCDOT. Requests to work on these dates shall be submitted for review and approval to the Town of Surf City and NCDOT one week prior to the date work is requested to be conducted.

Surf City Special Events on Roland Ave. 2022- Soundside Park

Out of Darkness Walk	March 27
National Day of Prayer	May 5
Surf City Bridge Jam	May 14- Set up on 13th
Memorial Day Remembrance Ceremony	May 27
Movie in the Park	June 3
Sip, Shop, & Stroll	June 10
Flag Day Ceremony	June 14
Kids Fishing Tournament	June 18
Movie in the Park	June 24
3 rd of July Celebration	July 3- Set up on 2nd
Movie in the Park	July 15
Sip, Shop, & Stoll	July 22
Movie in the Park	July 29
Movie in the Park	Aug 5
Sip, Shop, & Stroll	Aug 12
Movie in the Park	Aug 19

Surf to Sound 5K/10K	Sept 24
Reel Housewives of Topsail Island Bike Ride	Oct 1
Surf City Ocean Fest	Oct 7-8 Rain Date: Oct 9
Surf City Biathlon	Oct 15/29
Surf City Fall Festival	Oct 22
Annual Tree Lighting Ceremony	Nov 19
Chamber Christmas Market & Flotilla	Dec 10

The liquidated damages are Seven Hundred Dollars (\$700.00) per hour.

MAJOR CONTRACT ITEMS:

(2-19-02) 104 SPI G28

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

Line # Description

14 — DOWNLIGHT LUMINAIRE, LED

16 — LIGHT STANDARD W/ BISHOPS CRROK TWIN ARM, TYPE AB, 16' MH

SPECIALTY ITEMS:

(7-1-95)(Rev. 7-20-21) 108-6 SPI G37

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

Line #	Description
6-17	Lighting
18-30	Planting

FUEL PRICE ADJUSTMENT:

(11-15-05) (Rev. 7-20-21) 109-8 SP1 G43

Revise the 2018 Standard Specifications as follows:

Page 1-87, Article 109-8, Fuel Price Adjustments, add the following:

The base index price for DIESEL #2 FUEL is \$ 2.1637 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	0.90 or 2.90
Asphalt Concrete Intermediate Course, Type	Gal/Ton	0.90 or 2.90
Asphalt Concrete Surface Course, Type	Gal/Ton	0.90 or 2.90
Open-Graded Asphalt Friction Course	Gal/Ton	0.90 or 2.90
Permeable Asphalt Drainage Course, Type	Gal/Ton	0.90 or 2.90
Sand Asphalt Surface Course, Type	Gal/Ton	0.90 or 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

For the asphalt items noted in the chart as eligible for fuel adjustments, the bidder may include the *Fuel Usage Factor Adjustment Form* with their bid submission if they elect to use the fuel usage factor. The *Fuel Usage Factor Adjustment Form* is found at the following link:

https://connect.ncdot.gov/letting/LetCentral/Fuel%20Usage%20Factor%20Adjustment%20Form.pdf

Select either 2.90 Gal/Ton fuel factor or 0.90 Gal/Ton fuel factor for each asphalt line item on the *Fuel Usage Factor Adjustment Form*. The selected fuel factor for each asphalt item will remain in effect for the duration of the contract.

Failure to complete the *Fuel Usage Factor Adjustment Form* will result in using 2.90 gallons per ton as the Fuel Usage Factor for Diesel for the asphalt items noted above. The contractor will not be permitted to change the Fuel Usage Factor after the bids are submitted.

SCHEDULE OF ESTIMATED COMPLETION PROGRESS:

(7-15-08) (Rev. 5-13-19) 108-2 SPI 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:

	Fiscal Year	Progress (% of Dollar Value)
2022	(7/01/21 - 6/30/22)	50 % of Total Amount Bid
2023	(7/01/22 - 6/30/23)	50% of Total Amount Bid
2024	(7/01/23 - 6/30/24)	0 % of Total Amount Bid
2025	(7/01/24 - 6/30/25)	0 % of Total Amount Bid
2026	(7/01/25 - 6/30/26)	0% 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 (DIVISIONS):

(10-16-07)(Rev. 8-17-21) 102-15(J) SP1 G67

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 <u>not</u> be used to meet the Combined MBE/WBE goal. No submittal of a Letter of Intent is required.

Combined MBE/WBE Goal: A portion of the total contract, expressed as a percentage that is to be performed by committed MBE/WBE subcontractors.

Committed MBE/WBE Subcontractor - Any MBE/WBE submitted at the time of bid that is being used to meet the Combined MBE / 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 Goal Requirement - The approved participation at time of award, but not greater than the advertised Combined MBE/WBE contract goal.

Goal Confirmation Letter - Written documentation from the Department to the bidder confirming the Contractor's approved, committed 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 Participation (Anticipated) - A portion of the total contract, expressed as a percentage that is anticipated 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.

Replacement / Substitution – A full or partial reduction in the amount of work subcontracted to a committed (or an approved substitute) MBE/WBE firm.

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 Participation (Anticipated) - A portion of the total contract, expressed as a percentage that is anticipated 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 estimated amount (based on quantities and unit prices) 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 the Combined MBE/WBE goal. This form is for paper bids only.

http://connect.ncdot.gov/municipalities/Bid%20 Proposals%20 for %20 LGA%20 Content/09%20 MBE-WBE%20 Subcontractors%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

Combined MBE/WBE Goal

The Combined MBE/WBE Goal for this project is **0.0** %

The Combined Goal was established utilizing the following anticipated participation for Minority Business Enterprises and Women Business Enterprises:

(A) Minority Business Enterprises **0.0** %

- (1) If the anticipated MBE participation 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.
- (2) If the anticipated MBE participation 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 **0.0** %

- (1) If the anticipated WBE participation 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.
- (2) If the anticipated WBE participation 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.

The Bidder is required to submit only participation to meet the Combined MBE/WBE Goal. The Combined Goal may be met by submitting all MBE participation, all WBE participation, or a combination of MBE and WBE participation.

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 Combined MBE / WBE goal. 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 <u>all</u> MBE and WBE participation that they anticipate to use during the life of the contract. Only those identified to meet the Combined MBE/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 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 the electronic submittal file.

- (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 the electronic submittal file, 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 the Combined MBE/WBE goal.

(B) Paper Bids

- (1) If the Combined MBE/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 Combined MBE/WBE goal.
- (2) If the Combined MBE/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 a Combined MBE/WBE Goal, the firm is responsible for meeting the goal or making good faith efforts to meet the goal, just like any other bidder. In most cases, a MBE or WBE bidder on a contract will meet the Combined MBE/WBE goal 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.

MBE/WBE prime contractors shall also follow Sections A or B listed under *Listing of MBE/WBE Subcontractors* 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 Combined MBE/WBE goal 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 Engineer no later than 2:00 p.m. of the fifth calendar day following opening of bids, unless the fifth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the 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 Combined MBE/WBE goal, or if the form is incomplete (i.e. both signatures are not present), the MBE/WBE participation will not count toward meeting the Combined MBE/WBE goal. If the lack of this participation drops the commitment below the Combined MBE/WBE goal, the Contractor shall submit evidence of good faith efforts for the goal not met, completed in its entirety, to the Engineer no later than 2:00 p.m. of the eighth calendar day following opening of bids, unless the eighth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the Engineer no later than 10:00 a.m. on the next official state business day.

Banking MBE/WBE Credit

If the committed MBE/WBE participation submitted exceeds the algebraic sum of the Combined MBE/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 and WBE firms to meet the advertised goal, as part of the good faith effort, the Department will consider allowing the bidder to withdraw funds to meet the Combined MBE/WBE goal as long as there are adequate funds available from the bidder's MBE and WBE bank accounts.

Submission of Good Faith Effort

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

One complete set and 5 copies of this information shall be received in the office of the Engineer no later than 2:00 p.m. of the fifth calendar day following opening of bids, unless the fifth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the Engineer no later than 10:00 a.m. on the next official state business day.

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 a Combined MBE/WBE Goal 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 Combined MBE/WBE goal 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 advertised goal 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 the advertised goal 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 advertised goal, 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 BOWD@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 advertised 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 Combined MBE/WBE goal.

- (2) The bidders' past performance in meeting the contract goal.
- (3) The performance of other bidders in meeting the advertised goal. For example, when the apparent successful bidder fails to meet the goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the advertised goal, 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 Combined MBE/WBE goal can be met or that an adequate good faith effort has been made to meet the advertised goal.

Non-Good Faith Appeal

The 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 Engineer. The appeal shall be made within 2 business days of notification of the determination of non-good faith.

Counting MBE/WBE Participation Toward Meeting the Combined MBE/WBE Goal

(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 anticipated MBE participation. The same holds for work that a WBE subcontracts to another WBE firm. Work that a MBE/WBE subcontracts to a non-MBE/WBE firm does not count toward the contract goal requirement. 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), in order to fulfill the MBE or WBE participation breakdown. 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 firms and there is no interest or availability, and they can get assistance from other certified firms, the Engineer will not hold the prime responsible for meeting the individual MBE or WBE breakdown. 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.

(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 /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 /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. If it is determined that a MBE or WBE is not performing a Commercially Useful Function, the contractor may present evidence to rebut this presumption to the Department.

(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 Combined MBE/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 participation breakdown. 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 responsible for meeting the individual MBE or WBE participation breakdown.
- (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 subcontractor (or an approved substitute MBE or WBE subcontractor) to meet all or part of a contract goal requirement, the contractor shall not terminate the MBE/WBE subcontractor 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.

The Contractor must give notice in writing both by certified mail and email to the MBE/WBE subcontractor, with a copy to the Engineer of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor must give the MBE/WBE subcontractor five (5) business days to respond to the Contractor's Notice of Intent to Request Termination and/or Substitution. If the MBE/WBE subcontractor objects to the intended termination/substitution, the MBE/WBE, within five (5) business days must advise the Contractor and the Department of the reasons why the action should not be approved. The five-day notice period shall begin on the next business day after written notice is provided to the MBE/WBE subcontractor.

A committed MBE/WBE subcontractor may only be terminated after receiving the Department's written approval based upon a finding of good cause for the proposed termination and/or substitution. For purposes of this section, good cause shall include the following circumstances:

- (a) The listed MBE/WBE subcontractor fails or refuses to execute a written contract;
- (b) The listed MBE/WBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the MBE/WBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor:
- (c) The listed MBE/WBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements;
- (d) The listed MBE/WBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
- (e) The listed MBE/WBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to 2 CFR Parts 180, 215 and 1,200 or applicable state law;
- (f) The listed MBE/WBE subcontractor is not a responsible contractor;
- (g) The listed MBE/WBE voluntarily withdraws from the project and provides written notice of withdrawal;
- (h) The listed MBE/WBE is ineligible to receive MBE/WBE credit for the type of work required;
- (i) A MBE/WBE owner dies or becomes disabled with the result that the listed MBE/WBE contractor is unable to complete its work on the contract;
- (j) Other documented good cause that compels the termination of the MBE/WBE subcontractor. Provided, that good cause does not exist if the prime contractor seeks to terminate a MBE/WBE it relied upon to obtain the contract so that the prime contractor can self-perform the work for which the MBE/WBE contractor was engaged or so that

the prime contractor can substitute another MBE/WBE or non-MBE/WBE contractor after contract award.

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

(A) Performance Related Replacement

When a committed MBE/WBE is terminated for good cause as stated above, an additional MBE/WBE that was submitted at the time of bid may be used to fulfill the MBE/WBE commitment to meet the Combined MBE/WBE Goal. A good faith effort will only be required for removing a committed MBE/WBE if there were no additional MBE/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 MBE/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 MBE/WBEs for specific subbids including, at a minimum:
 - (a) The names, addresses, and telephone numbers of MBE/WBEs who were contacted.
 - (b) A description of the information provided to MBE/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 MBE/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.
- 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 MBE/WBE subcontractor to perform at least the same amount of work to meet the Combined 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).
- (3) Exception: If the MBE/WBE's ineligibility is caused solely by its having exceeded the size standard during the performance of the contract, 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 and overall goal.

All requests for replacement of a committed MBE/WBE firm shall be submitted to the Engineer for approval on Form RF-1 (DBE 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.

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
- Removal of an approved contractor from the prequalified bidders' list or the removal of other (B) 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 further work on future 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 DBE Payment Tracking System.

Failure to Meet Contract Requirements

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

CONTRACTOR'S LICENSE REQUIREMENTS: 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).

RESTRICTIONS ON ITS EQUIPMENT AND SERVICES:

SP01 G090

All telecommunications, video or other ITS equipment or services installed or utilized on this project must be in conformance with UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES, AND AUDIT REQUIREMENTS FOR FEDERAL AWARDS 2 CFR, § 200.216 Prohibition on certain telecommunications and video surveillance services or equipment.

USE OF UNMANNED AIRCRAFT SYSTEM (UAS):

(8-20-19) SP1 G092

The Contractor shall adhere to all Federal, State and Local regulations and guidelines for the use of Unmanned Aircraft Systems (UAS). This includes but is not limited to US 14 CFR Part 107 Small UAS Rule, NC GS 15A-300.2 Regulation of launch and recovery sites, NC GS 63-95 Training required for the operation of unmanned aircraft systems, NC GS 63-96 Permit required for commercial operation of unmanned aircraft system, and NCDOT UAS Policy. The required operator certifications include possessing a current Federal Aviation Administration (FAA) Remote Pilot Certificate, a NC UAS Operator Permit as well as operating a UAS registered with the FAA.

Prior to beginning operations, the Contractor shall complete the NCDOT UAS – Flight Operation Approval Form and submit it to the Engineer for approval. All UAS operations shall be approved by the Engineer prior to beginning the operations.

All contractors or subcontractors operating UAS shall have UAS specific general liability insurance to cover all operations under this contract.

The use of UAS is at the Contractor's discretion. No measurement or payment will be made for the use of UAS. In the event that the Department directs the Contractor to utilize UAS, payment will be in accordance with Article 104-7 Extra Work.

EQUIPMENT IDLING GUIDELINES:

(1-19-21) 107 SP1 G096

Exercise reduced fuel consumption and reduced equipment emissions during the construction of all work associated with this contract. Employees engaged in the construction of this project should turn off vehicles when stopped for more than thirty (30) minutes and off-highway equipment should idle no longer than fifteen (15) consecutive minutes.

These guidelines for turning off vehicles and equipment when idling do not apply to:

- 1. Idling when queuing.
- 2. Idling to verify the vehicle is in safe operating condition.
- 3. Idling for testing, servicing, repairing or diagnostic purposes.
- 4. Idling necessary to accomplish work for which the vehicle was designed (such as operating a crane, mixing concrete, etc.).
- 5. Idling required to bring the machine system to operating temperature.
- 6. Emergency vehicles, utility company, construction, and maintenance vehicles where the engines must run to perform needed work.
- 7. Idling to ensure safe operation of the vehicle.
- 8. Idling when the propulsion engine is providing auxiliary power for other than heating or air conditioning. (such as hydraulic systems for pavers)
- 9. When specific traffic, safety, or emergency situations arise.
- 10. If the ambient temperature is less than 32 degrees Fahrenheit. Limited idling to provide for the safety of vehicle occupants (e.g. to run the heater).
- 11. If the ambient temperature is greater than 90 degrees Fahrenheit. Limited idling to provide for the safety of vehicle occupants of off-highway equipment (e.g. to run the air conditioning) no more than 30 minutes.

12. Diesel powered vehicles may idle for up to 30 minutes to minimize restart problems. Any vehicle, truck, or equipment in which the primary source of fuel is natural gas or electricity is exempt from the idling limitations set forth in this special provision.

ELECTRONIC BIDDING:

(2-19-19) 101, 102, 103 SPI G140

Revise the 2018 Standard Specifications as follows:

Page 1-4, Article 101-3, DEFINITIONS, BID (OR PROPOSAL) *Electronic Bid*, line 1, replace "Bid Express®" with "the approved electronic bidding provider".

Page 1-15, Subarticle 102-8(B), Electronic Bids, lines 39-40, replace "to Bid Express®" with "via the approved electronic bidding provider".

Page 1-15, Subarticle 102-8(B)(1), Electronic Bids, line 41, delete "from Bid Express®"

Page 1-17, Subarticle 102-9(C)(2), Electronic Bids, line 21, replace "Bid Express® miscellaneous folder within the .ebs" with "electronic submittal".

Page 1-29, Subarticle 103-4(C)(2), Electronic Bids, line 32, replace ".ebs miscellaneous data file of Expedite" with "electronic submittal file"

TWELVE MONTH GUARANTEE:

(7-15-03) 108 SPI G145

- (A) The Contractor shall guarantee materials and workmanship against latent and patent defects arising from faulty materials, faulty workmanship or negligence for a period of twelve months following the date of final acceptance of the work for maintenance and shall replace such defective materials and workmanship without cost to the Department. The Contractor will not be responsible for damage due to faulty design, normal wear and tear, for negligence on the part of the Department, and/or for use in excess of the design.
- (B) Where items of equipment or material carry a manufacturer's guarantee for any period in excess of twelve months, then the manufacturer's guarantee shall apply for that particular piece of equipment or material. The Department's first remedy shall be through the manufacturer although the Contractor is responsible for invoking the warranted repair work with the manufacturer. The Contractor's responsibility shall be limited to the term of the manufacturer's guarantee. NCDOT would be afforded the same warranty as provided by the Manufacturer.

This guarantee provision shall be invoked only for major components of work in which the Contractor would be wholly responsible for under the terms of the contract. Examples would include pavement structures, bridge components, and sign structures. This provision will not be used as a mechanism to force

the Contractor to return to the project to make repairs or perform additional work that the Department would normally compensate the Contractor for. In addition, routine maintenance activities (i.e. mowing grass, debris removal, ruts in earth shoulders,) are not parts of this guarantee.

Appropriate provisions of the payment and/or performance bonds shall cover this guarantee for the project.

To ensure uniform application statewide the Division Engineer will forward details regarding the circumstances surrounding any proposed guarantee repairs to the Chief Engineer for review and approval prior to the work being performed.

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 12-15-20)

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 equal to or greater than 1.0 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 Certified Designer on the erosion and sediment control/stormwater component of all reclamation plans and if applicable, the certification number of the Level III 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.

PROJECT SPECIAL PROVISIONS

ROADWAY

NOTES TO CONTRACTOR:

• In reference to ICT 4, material or equipment storage cannot be staged in an area to conflict with Surf City Special Event setup, event functionality, or event break down. Coordination and communication between the Contractor and the Town will be integral to make sure conflicts do not occur.

CONTRACTOR'S LICENSE REQUIREMENTS

A current North Carolina Landscape Contractor's License is required. A copy of the license shall be given to the Engineer prior to the beginning work. The successful bidder has fourteen (14) business days after notice of award of the contract, to provide the North Carolina Department of Transportation with a copy of the Landscaper Contractor's License. If these terms are not met within the allotted amount of time of fourteen (14) business days, the North Carolina Department of Transportation will have the right to reject the bid and select the next lowest responsible bidder or cancellation of this contact.

BOARDWALK TEXTURED CONCRETE

General:

The work in this section shall be designated as **Boardwalk Textured Concrete** in the plans. The work shall include all, labor, materials, equipment, and transportation required to complete the installation of the colored, textured concrete. The contractor for this work shall be a contractor who has been trained and equipped to texture and colorize concrete.

Definitions:

Boardwalk Textured Concrete - cast-in-place concrete slab, having an integral color fully mixed within the concrete. The colored concrete is placed, tooled, and imprinted with a wood boardwalk pattern. A color release is used in coordination with the patterned stamp to give the concrete further accent detail. The work is performed on the job site by trained and experienced workman. A minimum of 5 years of experience is required for the installer. Installer must submit 6 photographic examples and 3 references from the past 3 years.

Related Work: To be completed by the pavement contractor:

- a. Preparation work, including sub-grade preparation, finishes grading, setting of forms and screeds, joint material, and furnishing of reinforcement.
- b. Incorporate color additive to and mix concrete.
- c. Provide and place all concrete.
- d. Provide and apply the color hardener and/or color release as necessary.
- e. Provide and apply imprinting tools in the proper manner per specification.
- f. Provide all incidentals necessary or required to complete the work.

Quality Assurance:

a. A pavement contractor who shall provide a foreman or supervisor who has completed at least three installations of high quality shall install all work.

- b. All work shall comply with the current specifications and quality standards issued by the North Carolina Department of Transportation.
- c. The Contractor shall provide a written description of the installation and finishing procedure prior to the start of construction.
- d. The contractor shall provide a color, texture and pattern options/samples to the Engineer for approval prior to the start of construction.

Products and Materials:

- a. ABC- the aggregate base course shall be placed in accordance to NCDOT Standards and as delineated in the plans.
- b. Expansion joint fiber board- use between other adjoining concrete surfaces and the boardwalk textured concrete.
- c. Welded Wire Fabric (WWF)- 6x6, 10 gauge (W1.4x1.4) Welded Wire
- d. Concrete Mix/Integral Color- The concrete shall have an integral color incorporated in the mix as noted here and/or as defined in the plans:

Ash Gray (color additive)

Concrete mix design- The concrete shall have a minimum compressive strength of: Portland cement shall conform to ASTM C 150, Type II, V, depending on the soil conditions or I. Aggregates shall conform to ASTM C 33. Mixing water shall meet the requirements of Article 1024-4 Water of the Standard Specifications. In freeze-thaw areas only, an air-entrained agent complying with ASTM C 260 should be used to achieve the air-entrained content for the concrete mix used in accordance with the published recommendations of the Portland Cement Association and the American Concrete Institute. No admixtures containing calcium chloride are permitted.

d. Color release- The Concrete Stamping release shall be colored as noted here and/or as defined in the plans:

Medium Gray (color release)

- e. Texture- The Area Concrete Stamping shall be textured as noted here and/or as defined in the plans:
 - **6" Boardwalk with Knots** Random boardwalk length and 6" board width.

An example of the representative colors and stamp can be found with Decocrete Supply (www.deco-cretesupply.com). This is not an endorsement for their product, but only a sample of material characteristics of the proposed design.

f. Concrete Sealer- a matt finish, non-yellowing, non-slip water-based sealer specified for exterior textured concrete. Resilience to water, salt-water, and de-icer.

Installation Procedures:

- a. The locations to receive area concrete stamping shall have the sub-grade prepared and compacted in compliance with Division 7 guidelines (concrete pavement) of the NCDOT Standard Specifications. An ABC (aggregate base course) shall be laid in accordance with applicable requirements of 520 of the NCDOT Standard Specifications.
- b. The formwork shall be installed, and the slab thickness shall be: 4".
- c. Control joints (and expansion joints) shall be provided in accordance with applicable parts of Section 825-10 Joints as defined in the Standard Specification, and as directed by the Engineer in field. Joints shall follow the patterned lines defined in the plans.
- d. Install welded wire fabric; center in the concrete slab. DO NOT PLACE DIRECTLY ON THE AGGREGATE BASE.
- e. The colored concrete shall be placed and screed to the finished grade, as defined on the plans, and floated to a uniform surface.
- f. The color release shall be applied evenly in a light dusting to the plastic surface by the dry-shake method using a minimum of 60 pounds per 100 square feet. It shall be applied in a single shake (with good consistent coverage).
- g. While the concrete is still in the plastic stages of set, the imprinting tools shall be applied to make the desired impression to the surface.
- h. No further finishing or troweling is needed. Let concrete cure for a min. of 2 days and/or as directed by the Engineer or manufacturers guidelines.
- i. Once cured, and when approved by the Engineer, saw control joints (typically 10' O.C.) following the imprinted pattern line and should be a minimum of 1/3 the depth of the concrete.
- j. Remove release agent with a light power washing over the surface of the textured concrete surface. Care shall be taken as not to remove the remnant color left within the pattern recesses of the concrete.
- k. Leave concrete to air dry for 7 days minimum.
- 1. Seal concrete with a penetrating matt non-slip water-based sealer (without color enhancer).

Method of Measurement and Basis of Payment

The work for the construction and placement of colorized textured concrete as shown on the plans or as approved by the Engineer, when completed and accepted, will be paid for at the unit price per square foot for "Boardwalk Textured Concrete". Such price and payment will be full compensation for all work covered by this special provision; including but not limited to furnishing all labor, materials, and equipment and any other incidentals necessary or required to complete the work. There will be no additional compensation for base material, reinforcement wire, control and expansion joints.

Payment will be made under:

Boardwalk Textured Concrete Square Feet

6' GABION BENCH

General:

The work in this section shall be designated as **6'** Gabion Bench in the plans. The work shall include all, labor, materials, equipment, and transportation required to complete the installation of the gabion bench. The contractor for this work shall show a clear understanding of the construction of rock infilled gabion and similar hardscape construction.

Definitions:

6' Gabion Bench – construct in-place bench consisting of a concrete base and 6' gabion basket topped with wood type bench. The basket is interwoven with heavy gauge wire and infilled with stone. Gray plastic lumber is used to construct the seats atop the gabion basket. The work is performed on the job site by trained and experienced workman.

Related Work:

- a. Preparation work, including sub-grade preparation, finishes grading, construction of concrete forms, and placement of protruding metal posts.
- b. Place concrete, trowel, and finish.
- c. Construct gabion basket with use of heavy gauge wire and stiffening rods.
- d. Set basket on concrete base and fill with stone.
- e. Construct and attach plastic wood bench seats with designated hardware.
- f. Provide all incidentals necessary or required to complete the work.

Quality Assurance:

a. All work shall comply with the plans, specifications and quality standards issued by the North Carolina Department of Transportation.

- b. The Contractor shall provide a written description of the installation and finishing procedure prior to the start of construction.
- c. The contractor shall provide a documentation examples of the gabion basket materials, stone, and plastic wood to the Engineer for approval prior to the start of construction.

Products and Materials:

- a. ABC- the aggregate base course shall be placed in accordance to NCDOT Standards and as delineated in the plans.
- b. Gabion Basket- 6' long x 15" tall x 15" wide basket constructed of 4-gauge galvanized wire; providing 3" x 3" openings.
- c. 1" Galvanized Metal Post.
- d. 2" x 6" and 1" x 4" gray recycled HDPE plastic lumber with UV stabilizers.
- e. 3"-8" granite stones; some smaller stones as necessary.
- f. Misc. materials and fasteners noted in the plans.

Installation Procedures:

- a. The locations to receive area concrete footing/base shall have the sub-grade prepared and compacted in compliance with of the NCDOT Standard Specifications. An ABC (aggregate base course) shall be laid in accordance with the plans and Standard Specifications.
- b. The formwork shall be installed for the 8" slab base. Confirm the width and length of the form (must match dimensions of the gabion basket).
- c. The concrete shall be poured and screed to the finished grade, as defined on the plans, and floated to a uniform surface.
- d. Set and stabilized metal protruding posts (12" O.C. or as noted in the plans).
- e. Construct gabion baskets and add stiffening rods.
- f. Once the concrete base has cured, confirm with Engineer, set the basket atop of the concrete base.
- g. Fill the baskets ³/₄ full of stone (as referenced in the plans/specs.).
- h. Cut plastic wood to length, rout edges (where applicable), and predrill holes.
- i. Place 1x4(s) on underside of gabion basket lid, align wood bench seat 2x6(s), insert and tighten carriage bolts, washers, and nuts.
- j. Complete filling basket with stone. Stone should not inhibit lid from shutting flat.
- k. Wire lid shut.
- 1. Remove concrete forms, file concrete edges smooth/round, and clean-up as directed by the Engineer.

Method of Measurement and Basis of Payment:

The work for the construction of 6' Gabion Bench as shown on the plans or as approved by the Engineer, when completed and accepted, will be paid for at the unit price per each "6' Gabion Bench". Such price and payment will be full compensation for all work covered by this special provision; including but not limited to furnishing all labor, materials, and equipment and any other incidentals necessary or required to complete the work. There will be no additional compensation for base material, control and expansion joints.

Payment will be made under:

6' Gabion Bench	acn
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6' RECYCLED PLASTIC PARK BENCH

General:

This special provision consists of furnishing and installing a **6' Recycled Plastic Park Bench** as noted on the plans and as described herein. Provide item catalogue sheet for approval.

Definitions:

6' Recycled Plastic Park Bench – pre-manufactured park bench constructed of molded black plastic wood structural base with grey plank lumber slats.

Grey colored slats and black structural base

Products and Materials:

The park bench shall be constructed of UV resilient recycled plastic. The color integral <u>bench and back</u> are a flow molded, solid profile recycled (High Density Polyethelyne) HDPE plastic with colorant and UV inhibitors.

<u>Installation:</u>

Anchor park bench to concrete pad with stainless steel expansion hardware or as instructed by manufacturer. Drop-in Anchor Installation: Drill ¼ inch hole into pre-marked holes on the concrete surface with a carbide tipped masonry drill bit conforming to ANSI B94, 12-77, matching the bit size with the outside diameter of the drop-in anchor being used. Make sure hole depth exceeds minimum embedment. Set and attached anchor to bench foot.

Method of Measurement and Basis of Payment:

The work for the installation of 6' park bench as shown on the plans or as approved by the Engineer, when completed and accepted, will be paid for at the unit price per each "6' Recycled Plastic Park Bench". Such price and payment will be full compensation for all work covered by this special provision; including but not limited to furnishing all labor, materials, and equipment and any other incidentals necessary or required to complete the work. There will be no additional compensation for installation materials, screws, or hardware.

Payment will be made un

DUAL WASTE RECEPTACLES

General:

This special provision consists of furnishing and installing a **Dual Waste Receptacles** as noted on the plans and as described herein. Provide manufacturer's catalogue sheet (including color options) for approval.

Definitions:

Dual Waste Receptacles – pre-manufactured container constructed of recycled plastic lumber and housing two sides. A side for the collection of garbage/waste and an adjoining side for recycling.

Products and Materials:

The Dual Waste Receptacles shall be constructed of solid profile recycled (High Density Polyethelyne) HDPE plastic with colorant and UV inhibitors.

Grey colored body and black trim

Installation:

Item shall be pre-manufactured and assembled. Receptacle unit shall be installed with stainless steel concrete expansion anchor and attachment hardware. Refer to plans/details for further instruction. Submit anchor and hardware for approval.

Method of Measurement and Basis of Payment:

The work for the installation of Dual Waste Receptacles as shown on the plans or as approved by the Engineer, when completed and accepted, will be paid for at the unit price per each "Dual Waste Receptacles". Such price and payment will be full compensation for all work covered by this special provision; including but not limited to furnishing all labor, materials, and equipment and any other incidentals necessary or required to complete the work. There will be no additional compensation for installation materials, screws, or hardware.

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Dual Waste Receptacles. Each

HORSESHOE BIKE RACK

General:

This special provision consists of furnishing and installing a **Horseshoe Bike Rack** as noted on the plans and as described herein. Provide manufacturer's catalogue sheet for approval.

Definitions:

Horseshoe Bike Rack – pre-manufactured stainless-steel circular bike rack with surface mounting feet.

Products and Materials:

2-3/8" O.D. Stainless Steel tubing with welded feet for surface anchoring.

Stainless Steel Tubing

Installation:

Item shall be pre-manufactured and assembled. The Horseshoe Bike Rack shall be installed with stainless steel concrete expansion anchors. Multiple units with be installed. Refer to the plans/details for placement and spacing. Submit anchor and hardware for approval.

Method of Measurement and Basis of Payment:

The work for the installation of Horseshoe Bike Rack as shown on the plans or as approved by the Engineer, when completed and accepted, will be paid for at the unit price per each "Horseshoe Bike Rack". Such price and payment will be full compensation for all work covered by this special provision; including but not limited to furnishing all labor, materials, and equipment and any other incidentals necessary or required to complete the work. There will be no additional compensation for installation materials, screws, or hardware.

Ī	Payment	will	he	made	under

Horseshoe	Rike	Rack	 Fach

48" CONCRETE PLANTER

General:

This special provision consists of furnishing and placement a **48**" **Concrete Planter** as noted on the plans and as described herein. Provide manufacturer's catalogue sheet (including color options) for approval.

Definitions:

48" Concrete Planter – pre-cast 48" diameter concrete planter with raised base.

Products and Materials:

a. 48" Concrete Planter- Type 3 Portland cement casting with 3/8" rebar support. Est. weight= 1200 lbs.

Natural concrete with light sand blasted finish.

b. Topsoil/Planting Mix- blended mixture of 50% approved topsoil and 50% organic raised planting soil.

Installation:

- a. Due to the weight of the precast planter, set planter in place with approved equipment and only when the concrete areas are cured and at max. strength. Adjust location/placement by lifting and resetting. Never push or drag planter across the concrete.
- b. Fill planter with pre-mixed (approved) soil mixture. Additional soil shall be added due to settling. Final fill level shall be 3" below rim of planter.
 - ❖ Drip Irrigation shall be incorporated for the planter (refer to irrigation plans/specs.). A small ½" hole with be drilled though the back (just above the interior base) for the feeder tube access.

Method of Measurement and Basis of Payment:

The work for the installation of 48" Concrete Planter as shown on the plans or as approved by the Engineer, when completed and accepted, will be paid for at the unit price per each "48" Concrete Planter". Such price and payment will be full compensation for the planter, soil, and all work covered by this special provision; including but not limited to furnishing all labor, materials, and equipment and any other incidentals necessary or required to complete the work.

Payment	will	be	made	under:

48"	Concrete	Planter									\mathbf{E}_{i}	ac1	h

NAUTICAL FLAGPOLE

General:

The work covered by this section consists of furnishing and installing a 35' aluminum **Nautical Flagpole**, with single sheave trunk, balanced yardarm, 3 flag set-up, at location as shown on the drawings.

Provide manufacturer's catalogue sheet for approval.

Products and Materials:

- a. 35" Nautical Flagpole- 38.5' Overall hgt., single sheave aluminum trunk, and 7" butt diameter.
- b. 8" Gold Ball Finial.
- c. Aluminum Flash Collar.
- d. 3 Flag set with 3 Rope Halyards (#10 Polyester Rope).
- e. 6 Stainless Steel Flagsnaps and 6 Neoprene Flagsnap Covers.
- f. 3 Cast Aluminum Cleats.
- g. Sleeve foundation and lightning ground spike.

Installation:

Install per manufacturer instructions, in accordance with the plans, specification, and by NCDOT Engineer approval.

Method of Measurement and Basis of Payment

The work for the installation of Nautical Flagpole as shown on the plans or as approved by the Engineer, when completed and accepted, will be paid for at the unit price per each "Nautical Flagpole". Such price and payment will be full compensation for the flagpole, all associated items, and work covered by this special provision; including but not limited to furnishing all labor, materials, delivery, equipment and any other incidentals necessary or required to complete the work.

Payment will be made under:

Nautical	Flagpole.											Each

MULCH FOR PLANTING

General:

Mulch for planting shall consist of Double Shredded Hardwood. All mulch and the work associated in placing the mulch during planting shall conform to article 1060-11 of the Standard Specifications.

Products and Materials:

a. Mulch- double shredded hardwood from a single source.

Submit sample for approval prior to placement.

Installation:

Install mulch to a finished depth of 4 inches, rake and compact to create a uniform finish.

Method of Measurement and Basis of Payment:

The work for the installation of mulch as shown on the plans or as approved by the Engineer, when completed and accepted, will be paid for at the unit price per Cubic Yard of "Mulch". Such price and payment will be full compensation for the work covered by this special provision; including but not limited to furnishing all labor, materials, delivery, equipment and any other incidentals necessary or required to complete the work.

Payment will be made under:

Mulch.																					Cubic	Yard
11101011.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	••	CGCIC	1 414

TOPSOIL

General:

The work for the delivery and placement of **Topsoil** as shown on the plans or as approved by the Engineer, when completed and accepted.

Products and Materials:

a. Topsoil- will consist of a sandy loam, silt loam or clay loam that contains a reasonable amount of humus material. Topsoil will be of good texture, loose and friable and will be <u>representative of topsoil in the general vicinity</u>. It will be reasonably free from sod, hard lumps, subsoil, large roots, rocks and gravel, noxious weed seeds and/or toxic substances or other material, which would be harmful to plant growth.

Submit sample for approval prior to placement.

Installation:

Place topsoil and spread evenly to the designated grade elevation, as shown on the plans, or as directed by the Engineer. Do not place topsoil when the ground is frozen, is excessively wet, or is in a condition that the soil cannot be worked easily and dressed smoothly.

Method of Measurement and Basis of Payment:

The work for the installation of topsoil as shown on the plans or as approved by the Engineer, when completed and accepted, will be paid for at the unit price per Cubic Yard of "Topsoil". Each truck will be measured and will have a legible identification mark indicating its capacity. Load each truck to at least its measured capacity at the time it arrives at the point of delivery. The recorded capacity will be adjusted by making a 20 percent deduction (-20%) to allow for settling/compaction, and the adjusted capacity will be the quantity to be paid for. Such price and payment will be full compensation for the work covered by this special provision; including but not limited to furnishing all labor, materials, delivery, equipment and any other incidentals necessary or required to complete the work.

Payment will be made under:

RIVER ROCK

General:

The work covered by this item consist of furnishing and installing 'River Rock' as shown on the plans, the details, and as described herein.

Products and Materials:

River Rock will consist of washed river jacks, Tennessee river gravel, or approved equal available from local North Carolina sources in a size range of approximately 2 to 6 inches.

Submit sample for approval prior to placement.

Installation:

Place River Rock and spread evenly to the designated grade elevation, as shown on the plans, or as directed by the Engineer.

Method of Measurement and Basis of Payment:

The work of furnishing and installing the River Rock mulch as shown on the plans and as approved by the Engineer, when completed and accepted, will be paid for at the unit price per Cubic Yard of "River Rock". Such price and payment will be full compensation for all work covered by this special provision;

including but not limited to furnishing all labor, materials, equipment for installation, coordination with engineers and any other incidentals necessary or required to complete the work.

Payment will be made under

River Rock

IRRIGATION

General:

The work covered by this item consist of furnishing and installing 'Irrigation' as shown on the plans, the details, and as described herein.

The Contractor shall provide all materials and labor to install an Irrigation system utilizing spray heads and drip emitters, the Department has provided plan sheets showing the planned layout areas that are to receive spray head irrigation and mulched plant beds/ planters that are to receive drip emitter irrigation. Valves and component systems to operate from the noted backflow/meter locations (provided by the owner/municipality).

The Contractor shall provide all labor, equipment, and materials for the installation of the irrigation system including but not limited to layout, trenching, backfilling, providing and installing pipe, valves, actuators, filters, pressure regulators, drip tubing, drains, controller, wiring, boring sleeves.

The Contractor shall be a North Carolina Licensed Irrigation Contractor familiar with all state and local regulations and ordinances concerning irrigation systems and obtain permits that are necessary for the installation of the irrigation system.

The Contractor shall lay out work as accurately as possible in accordance with the irrigation design plans, details, and specifications. Changes or deviations may be necessary due to changes in equipment or layout. Any deviation from the design plans must be submitted to the Engineer/Landscape Architect for review and approval.

Quality Assurance:

- a. All work shall comply with the plans, specifications and quality standards issued by the State of North Carolina and the North Carolina Department of Transportation.
- b. Changes or deviations may be necessary due to changes in equipment or layout. Any deviation from the design plans must be submitted to the Engineer/Landscape Architect for review and approval.
- c. The Contractor shall meet with the NCDOT Engineer onsite, and associated parties, to review the all elements of the irrigation equipment installation processes/coordination prior to the start of construction.

Products and Materials:

Refer to the plans and details for equipment requirements/specifications.

Provide manufacturer's catalogue sheets for all irrigation equipment approval.

Installation Procedures:

- a. The contractor is responsible for locating all subsurface utilities in the work area.
- b. Once all submittals are approved, the contractor shall conduct an on-site review of the plans and installation procedures with the NCDOT Engineer (and/or local representatives).
- c. Locate existing roadway sleeves and planned location of bores. Protect areas from public access during the process of construction.
- d. Access and install all needed sleeves. Paved driveway crossings are to be installed by trenchless means. Unpaved driveways may be trenched; however, the driveway must be traversable at all times. Meaning, open cut in stages to where ingress and egress to the property is achievable and maintained at all times.
- e. Review areas for conflicts that may arise with trenching operations.
- f. Complete trenching operations, lay pipe, and make all needed connections.
- g. Run 24 VAC wiring; minimize splices.
- h. Upon review/testing of installed pipe, backfill trenches and rake to a smooth surface.
- i. Install valves, valve boxes, and drip line assemblies.
- j. Install irrigation controllers.
- k. Seed and Mulch disturbed areas.
- 1. Test system.

The Contractor shall be responsible for full and complete coverage of irrigated area and shall make any necessary minor adjustments or as directed by the Engineer at no additional costs.

The Contractor shall prepare full size "as-built" drawings which shall include locations of all parts of the irrigation system installed by the Contractor. This may include, but is not limited to all system controllers, valves (automatic and manual), pipe, bores, drip tube, wires, wire splices, and any deviation from the contract bid documents. Two (2) copies of the "as-built" drawing shall be supplied to the Department of Transportation.

The Contractor shall be responsible for training personnel in the operation and maintenance of the irrigation system.

The Contractor shall balance and adjust the various components of the irrigation system as the overall operation of the system is most efficient. This includes synchronization of the controllers, adjustments to pressure valves, and individual station adjustments on the controllers.

The Contractor shall furnish a transferable certificate of warranty registration and a guarantee of work and materials for a one-year period from date of final acceptance of the system. Final payment for the system shall not be made unless this certification is presented to the Engineer.

Testing:

Upon completion of the irrigation system, the entire system shall be tested for proper operation. All air will be flushed from the system and the Contractor will check all components for proper operation.

The Contractor shall perform pressure and leakage testing of irrigation lines. The Contractor shall notify the Engineer two (2) days in advance of testing. Testing shall be performed in the presence of the Engineer or his representative. All main line piping shall be flushed of air and placed under the available static pressure or the design pressure, whichever is greater, for a period of six (6) hours. The system piping shall be isolated from the source of supply pressure for the duration of the test. The pressure in the system piping shall be noted every hour and if an excessive pressure drop is noted, the reason(s) shall be determined, and repairs effected.

Zone lateral lines shall be inspected while a particular irrigation zone is operating. Each emitter shall be inspected for leaks as will the route of the installed lateral piping.

Meter and Backflow Preventer Installation is the responsibility of the local municipality. Size and placement of the equipment shall be coordinated with NCDOT prior to the irrigation contractor's work.

Method of Measurement and Basis of Payment:

The work of furnishing and installing the Irrigation system as shown on the plans and as approved by the Engineer, when completed and accepted, will be paid for at the unit price as a Lump Sum for "Irrigation". Such price and payment will be full compensation for all work covered by this special provision; including but not limited to furnishing all labor, materials, equipment for installation, coordination with engineers and any other incidentals necessary or required to complete the work.

Payment will be made under:

Immination											T ,,,,,,,,	C	1	
Irrigation.											Lump	S	ıuı.	П

PLANTING

All plant material furnished shall be the best quality representation of each of the specified species. A list of the suppliers and their contact information for all plant material shall be furnished along with the bid package. This information shall be verified, and plant material may be inspected prior to awarding of the bid if appropriate and available. The quality of the plant material shall be considered along with the unit bid prices when this bid is awarded. Plant material deemed to be of unacceptable quality will not be considered. Some plant materials may need to be contract grown by a nursery of the contractor's choice due to available supplies. These arrangements shall be made in advance of the planting date and the supplier's name and address shall be submitted to the Department for approval at such time. The Department reserves the right to reject a supplier if upon inspection, the growing conditions or plant materials do not meet industry standards.

Newly created and renovated plantings as identified on the plans, in the details and as directed by the Engineer in the field shall be treated, prepared, and mulched as a plant bed. The contractor shall remove any vegetative matter unless otherwise directed, rocks, construction debris, surface debris and all other matter that could be detrimental to plant bed preparation or plant growth. All removed vegetation, debris, stones, etc. shall be disposed of off-site. The Contractor shall fill all holes and depressions that are existing or created during the removal process with acceptable and pre-approved topsoil, typical for the site, prior to plant bed preparation. See Section 1670-Planting of the Standard Specifications for Roads and Structures.

The quantities furnished on the plans and in the contract proposal are estimated quantities only. The final quantity shall be the exact number needed to completely install the planting design as determined by the Engineer in the field.

Plant bed preparation shall be incidental, and no separate payment will be made. Plant material furnished and installed during the initial installation period shall be paid for at the contract unit price each for each individual plant species. Initial acceptance of each of the plants, if satisfactorily furnished and installed, watered and mulched, shall be made at the intermediate completion date for each of the plant categories. The Contractor shall be responsible and care for all the plants.

Payment will be made under:
(Plant species and furnish as indicated in the contract)...... Each

PLANT BED PREPARATION

General:

The work covered by this provision consists of the preparation of new plant bed areas as specified on the plans. This includes the removal and disposal of all vegetative material to include trees, shrubs, stumps (above and below ground), perennials, roots, turf, and any other plant material that exists within the beds as indicated on the plans and as directed by the engineer on-site. These plants may be partially dead, diseased, invasive, or have outgrown their desired size. Salvage as much excess soil from the roots as possible to backfill any holes created by the plant removal. Large rocks and all debris shall be removed from the new plant bed areas as well. Lay out and cut in the new bed edge with a flat shovel or mechanical edger to create a minimum 6" deep trench along the proposed bed line as shown in the plans and in the planting details sheet. After removing all necessary debris and creating the new bed edge, rake and grade the soil, breaking up the larger clumps of dirt, so that the soil is uniform throughout the bed. All methods and operations used for plant bed preparation will meet prior approval of the Engineer. Conduct the plant material removal in such a manner that it prevents the damage of adjacent structures, paved areas, vegetation, turf, or the existing plant bed grades. If damage should occur, repair the damaged area to its original condition and to the satisfaction of the Engineer. Perform all work so minimum soil erosion occurs and compliance with the requirements of Section 107-13 are met. All plant material that is removed, unless otherwise specified, will become the property of the contractor and will be properly disposed of off-site. Disposal of the material onto highway right-of-ways is prohibited. All herbicide use shall conform to all applicable instructions, warnings, and safety precautions stated on the manufacturer's label, and comply with all laws and regulations of the EPA and FIFRA act. Specific herbicide and rate shall be approved by the Engineer prior to treatment.

Compensation:

'Plant Bed Preparation' will be incidental to the plant material installation. Such price and payment will be full compensation for all work covered by this provision, including but not limited to furnishing all labor, tools and equipment and any other incidentals necessary or required to complete the work.

SEASONAL LIMITATIONS

Weather and seasonal limitations shall be in accordance with Article 1670-3 of the Standard Specifications, January 2018 version.

REPLACEMENT PLANTINGS

Any plants that are not in a living and healthy condition as identified by the Engineer shall be replaced by the Contractor within 30 days of notification by the Engineer except for annual flowers that shall be replaced within 15 days of notification by the Engineer. Replacement of plantings shall be considered incidental to warranty work.

PESTICIDES

All applications of pesticides shall be made by an individual who possess or who is in the presence of an individual who possesses a valid North Carolina Department of Agriculture Commercial Ground Pesticide Applicator's License.

WATERING

Once the Contractor receives plant material from the nursery, and before plants have been planted, Contractor shall protect all plant root balls from drying out, maintaining them in a perpetually hydrated state. Contractor shall protect plant root balls from freezing.

At the time of planting, Contractor shall water-in all shrubs and perennials as per contract drawings. At the end of each day during initial planting, Contractor shall water all plants that have been planted. Contractor shall build plant rings as shown on plans that are large enough to hold sufficient water. Plant Rings shall be constructed out of soil.

Following acceptance of initial planting, unless otherwise directed by the Engineer, Contractor shall begin scheduled watering cycles of new plantings on a weekly basis unless otherwise directed by the Engineer. During each watering cycle, a minimum of 400 gallons of water shall be applied to new plantings. Watering shall be conducted between the time of 30 minutes after sunrise and 11:00 AM on Monday, Tuesday, Wednesday or Thursday.

Should the Contractor and the Engineer determine that the prescribed watering schedule is too much or too little for the success of the plants, the Contractor and the Engineer shall discuss the watering needs and an alternate schedule may be devised. As much as possible, vehicles involved in the watering process shall remain completely off the roadway.

Watering on demand may be required.

WEED CONTROL

During "Initial Planting", prior to tillage, Contractor shall successfully treat bed areas with herbicide as needed until all visible, actively growing, non-desirable plant material has been eliminated from the bed areas.

During "Warranty Work", pre-emergent herbicides shall be used to effectively control warm season and winter annuals. Post-emergent herbicides shall be used to control non-desirable plant material. Weed eating is not an acceptable sole means of controlling weeds but may be used in combination with herbicide treatments when appropriate. In such instances, Contractor shall weed eat plants to a height that reduces their visibility but leaves sufficient foliage/stems for the herbicide treatment to be successful. Herbicide treatments shall be performed within 36 hours of weed eating.

Should non-selective herbicides be needed, care shall be taken to avoid contact with desirable plant material. The Contractor shall replace any desirable plant material that is damaged, to any degree, by miss-application or drift of herbicide. DOT will not participate in the cost of such replacement planting. No pesticide may be used until the Contractor has submitted a copy of the label to the Engineer for product approval. Contractor shall indicate the rate to be used, the delivery method and the target. Contractor shall submit product labels for approval no later than 72 hours prior to intended application. No additional compensation will be made for Weed Control.

FERTILIZER

Osmocote, 8-2-12+4 Mg, (or approved equal). Evenly broadcast 0.5lb over a 25 sq. ft. (5' x 5') area around the sago palm trees during initial planting and (4) times a year (quarterly). Fertilizer for sago palms should be applied (4) four times a year (quarterly).

No fertilizer may be used until the Contractor has submitted a copy of the label to the Engineer for product approval. Contractor shall indicate the rate to be used. Contractor shall submit product labels for approval no later than 72 hours prior to intended application. Fertilizer will be considered incidental to initial planting items and monthly warranty work. There will be no additional compensation for fertilizer.

PRUNING

Pruning of shrubs and perennials will be done at the direction of the Engineer and shall be accomplished according to the Engineer's instruction. Pruning includes the removal of all deadwood from woody shrubs at any time during the contract and the cutting back of all perennials between March 1 and March 31 of each year of the contract. The Contractor will be responsible for cleanup and disposing of all debris after pruning. Pruning will be considered incidental to monthly warranty work. No additional compensation will be made for Pruning.

EXISTING PLANT BED CLEAN-UP

All existing plant beds as identified on the plans or as directed by the engineer shall be cleaned up. All undesirable plants, all grasses, all weeds, all vines, and other woody growth shall be removed from the roundabout. Use extreme care when removing existing plants in the vicinity of the trees to be preserved. Avoid ripping up roots of trees to remain by excavating and saw cutting any roots 2" and greater or trench a radius as close as possible around the stump of tree to be removed prior to removal. There may be underground utilities that could conflict with stump grinding or excavation, location and avoidance will be the responsibility of the contractor. There will be trees planted in this location and it will be mulched following clean-up and grading. The stumps will need to be completely removed to a sufficient depth and width to allow planting of the new trees. All debris created from the tree/stump/root removal process will need to be disposed of off-site by the contractor at his expense. Excavation or trenching should be a minimum of 24" deep or deep enough to remove all existing roots of those plants being removed. All methods and operations used for removal of vegetation will be approved by the Engineer prior to conducting work. If the Contractor feels that Construction Entrances are needed for this project, there will be no compensation for these entrances as they will be considered incidental to the planting and maintenance.

Backfill **if needed as a soil amendment**, shall be a clean topsoil material that must be clean of any roots, rocks, or other debris, and must be approved by the Engineer prior to placing in plant beds. All topsoil placement shall be incorporated by tillage into the existing soil upon placement.

All materials removed, unless indicated to be relocated become the property of the contractor and will be properly disposed of off-site. .

ONE (1) YEAR WARRANTY WORK/ MONTHLY MAINTENANCE

The "Warranty Work" shall begin after acceptance of the "Initial Planting". All items described under 1670-14 Establishment will be effective (i.e. mulching, watering, weed control, plant insect control, pruning, litter pick-up, plant removal (dead plants), mowing, edging, etc.). During the one (1) year warranty period, the Contractor and the Roadside Environmental Engineer will discuss the warranty work that is needed monthly on the project. The Engineer will provide the Contractor with a monthly checklist of work required, emphasizing particular issues that will need to be resolved before any invoice can be paid. Aside from the checklist, the Contractor is responsible for making an assessment of needs according to the items described under 1670-14 Establishment and performing such work without specific direction from the Engineer.

The contractor shall have 2 cycles of maintenance during the months of June, July, August, and September. Monthly Maintenance shall be paid per each.

The contractor shall notify the Roadside Environmental Engineer 48hrs in advanced of when the maintenance shall be done.

A high degree of importance is placed on maintaining the new plant beds in a weed and litter free condition, if contractor sprays beds with herbicide all visible dead vegetation must be removed from bed.

Contractor shall be prepared to take immediate action to remove and control any visible unwanted vegetation, and to perform all aspects of Warranty Work.

Payment will be made under:	
Monthly Maintenance	Each

FINAL ACCEPTANCE

Final acceptance will not be made before the completion of the "Warranty Work". Final acceptance will be made only after the satisfactory completion of all work covered by this contract. All plant material shall be well-rooted, in a living and healthy condition at the time of final acceptance. All work shall be completed in a neat, workmanlike manner. Work not completed in such manner will not be accepted.

<u>SUPPLEMENTAL SURVEYING:</u> (4-20-21)

(4-20-21) 801 SP8 R03

Revise the 2018 Standard Specifications as follows:

Page 8-7, Article 801-3 MEASUREMENT AND PAYMENT, lines 10-11, replace with the following:

Supplemental Surveying Office Calculations will be paid at the stated price of \$85.00 per hour. Supplemental Field Surveying will be paid at the stated price of \$145.00 per hour. The

PORTLAND CEMENT CONCRETE PRODUCTION AND DELIVERY:

(9-15-20)

1000 1014 1024

SP10 R01

Revise the 2018 Standard Specifications as follows:

Page 10-6, Table 1000-1, REQUIREMENTS FOR CONCRETE, replace with the following:

	TABLE 1000-1 REQUIREMENTS FOR CONCRETE										
. 0	A Maximum Water-Cement Ratio			Consi Maxi	stency mum mp	Cement Content					
Class of	Min. Compressive Strength at 28 days		trained crete	Entr	Non-Air- Entrained Concrete		Non- Vibrated	Vib	rated	Non-Vibrated	
_	Min. Stren	Rounded Aggregate	Angular Aggregate	Rounded Aggregate		Vibrated	N. Vibr				
	, , 01							Min.	Max.	Min.	Max.
Units	psi					inch	inch	lb/cy	lb/cy	lb/cy	lb/cy
AA	4500	0.381	0.426			3.5 ^A		639	715		
AA Slip Form	4500	0.381	0.426			1.5		639	715		
Drilled Pier	4500			0.450	0.450		5 – 7 dry 7 - 9 wet			640	800
A	3000	0.488	0.532	0.550	0.594	3.5 A	4.0	564		602	
В	2500	0.488	0.567	0.559	0.630	1.5 machine placed 2.5 A hand placed	4.0	508		545	
Sand Light- weight	4500		0.420			4.0 A		715			
Latex Modified	3000 (at 7 days)	0.400	0.400			6.0		658			

Flowable Fill excavatable	150 max. (at 56 days)	as needed	as needed	as needed	as needed		Flowable			40	100
Flowable Fill non- excavatable	125	as needed	as needed	as needed	as needed		Flowable			100	as needed
Pavement	4500 Design, field 650 flexural, design only	0.559	0.559			1.5 slip form 3.0 hand placed		526			
Precast	See Table 1077-1	as needed	as needed			6.0	as needed				
Prestressed	per contract	See Table 1078-1	See Table 1078-1			8.0		564	as needed		

A. The slump may be increased to 6 inches, provided the increase in slump is achieved by adding a chemical admixture conforming to Section 1024-3. In no case shall the water-cement ratio on the approved design be exceeded. Concrete exhibiting segregation and/or excessive bleeding will be rejected. Utilizing an Admixture to modify slump does not relinquish the contractor's responsibility to ensure the final product quality and overall configuration meets design specifications. Caution should be taken when placing these modified mixes on steep grades to prevent unintended changes to the set slope.

MATERIALS FOR PORTLAND CEMENT CONCRETE:

(9-15-20) 1000, 1024 SP10 R24

Revise the 2018 Standard Specifications as follows:

Page 10-52, Article 1024-4, WATER, lines 3-6, delete and replace with the following: Test water from wells at all locations. Test public water supplies from all out of state locations and in the following counties: Beaufort, Bertie, Brunswick, Camden, Carteret, Chowan, Craven, Currituck, Dare, Gates, Hyde, New Hanover, Onslow, Pamlico, Pasquotank, Pender, Perquimans, Tyrell and Washington unless the Engineer waives the testing requirements.

Page 10-52, Table 1024-2, PHYSICAL PROPERTIES OF WATER, replace with the following:

Property	Requirement	Test Method
Compression Strength, minimum percent of control at 3 and 7 days	90%	ASTM C1602
Time of set, deviation from control	From 1:00 hr. earlier to 1:30 hr. later	ASTM C1602
рН	4.5 to 8.5	ASTM D1293 *

Chloride Ion Content, Max.	250 ppm	ASTM D512 *
Total Solids Content (Residue), Max.	1,000 ppm	SM 2540B *
Resistivity, Min.	0.500 kohm-cm	ASTM D1125 *

^{*}Denotes an alternate method is acceptable. Test method used shall be referenced in the test report.

WORK ZONE INSTALLER:

(7-20-21) 1101, 1150 SP11 R04

Provide the service of at least one qualified work zone installer during the setup, installation, and removal of temporary traffic control within the highway right of way. The qualified work zone installer shall serve as crew leader and shall be on site and directing the installation and removal of temporary traffic control. If multiple temporary traffic control installations or removals are occurring simultaneously, then each shall have a qualified work zone installer.

The work zone installer shall be qualified by an NCDOT approved training agency in the safe and competent set up of temporary traffic control. For a complete listing of approved training agencies, see the Work Zone Safety Training webpage.

A work zone supervisor, in accordance with Article 1101-13 of the *Standard Specifications*, may fulfill the role of the work zone installer during the setup, installation, and removal of temporary traffic control within the highway right of way provided they are on site and directing the installation and removal of temporary traffic control.

All other individuals participating in the setup, installation, and removal of temporary traffic control within the highway right of way shall be certified as a qualified flagger in accordance with Article 1150-3 of the *Standard Specifications*, even if flagging is not being performed as part of the traffic control.

Provide the name and contact information of all qualified work zone installers to the Engineer prior to or at the preconstruction conference. Additionally, provide a qualification statement that all other individuals participating in the setup, installation, and removal of temporary traffic control are qualified flaggers that have been properly trained through an NCDOT approved training agency.

PROJECT SPECIAL PROVISIONS LIGHTING

1.00 DESCRIPTION

The work covered by this Section consists of furnishing, installing, connecting, and placing into satisfactory operating condition decorative and flagpole lighting at locations shown on the plans. Perform all work in accordance with these Special Provisions, the Plans, the National Electrical Code, and North Carolina Department of Transportation "Standard Specifications for Roads and Structures" (2018 Standard Specifications).

Perform all work in conformance with Division 14 of the 2018 Standard Specifications except as modified or added to by these Special Provisions. Install all bore pits outside the clear zone, as defined in the AASHTO Roadside Design Guide or as directed by the Engineer.

In addition to the requirements of Division 1400, other specific Sections of the 2018 Standard Specifications applicable to the work on this project are listed below.

Section 1407	Electric Service Pole and Lateral
Section 1408	Light Control System
Section 1409	Electrical Duct
Section 1410	Feeder Circuits
Section 1411	Electrical Junction Boxes

2.00 LIGHT STANDARD LIGHT EMITTING DIODE (LED) LUMINAIRES

2.10 DESCRIPTION

The work covered by this section consists of furnishing and installing LED luminaires on decorative, direct buried metal Light Standards described in other sections of these Project Special Provisions. Mounting height for the standards to be installed at South Eastern portion of Roland Ave in Surf City, NC, is 16 ft.

The contractor shall provide a luminaire from the list below or a suitable approved equal. The submitted luminaire shall have a contemporary look similar in design and style of those in the list below, and be capable of being mounted to a Bishops Crook arm as described in Section 3.20 of these Special Provisions and as shown in the detail drawing on sheet E4 of the Plans.

Manufacturer	Description	Part #
		MEM-E04-LED-E-U-T3-4-
Eaton - Cooper Ind	Streetworks, EPIC MEDIUM LED	FL-GM
		2A-1970LED-F-GTSR-
Sternberg Lighting	1970LED Gallery	8ARC-35-T3-FG
Architectural Area		UCM-SR-FLR-T3-56LED-
Lighting	Universe Collection LED	4K-450-GT-SF

Any luminaire submitted as an approved equal shall be aesthetically equal to the luminaires in the table above and meet the requirements below.

Furnish, install and place into satisfactory operation luminaires on Bishop Crook arms, complete with all light sources, drivers, wiring inside standard from circuit conductors to luminaires, inline breakaway fuse-holders and fuses and ground wiring at the pole.

Third party certified photometric files in IES format are required to be submitted with the catalog cuts for the proposed LED luminaire.

The manufacturer shall state the Light Loss Factor (LLF) used in the photometric calculations for the proposed luminaire. LLF shall be calculated as follows:

LLF = Lamp Lumen Depreciation (LLD) x Luminaire Dirt Depreciation (LDD)

- Lamp Lumen Depreciation (LLD) shall be the value calculated and reported by the manufacturer based on the LM-80 and TM-21 reports for the proposed fixture for 70,000 hours at 25° C.
- Luminaire Dirt Depreciation (LDD) = 0.90

2.20 MATERIALS

2.21 LUMINAIRE REQUIREMENTS

A. General Requirements

- LM-79 photometric test reports shall be provided for all LED luminaires. LM-79 luminaire photometric reports shall be produced by an independent test laboratory and include the following:
 - Name of test laboratory. The test laboratory must hold National Voluntary Laboratory Accreditation Program (NVLAP) accreditation for the IES LM-79 test procedure or must be qualified, verified, and recognized through the U.S. Department of Energy's CALiPER program.
 - Report number
 - Date
 - Complete luminaire catalog number. Catalog number tested must match the catalog number of the luminaire submitted, except for variations which do not affect performance.
 - Description of luminaire, LED light source(s), and LED driver(s)
 - Goniophotometry
 - Colorimetry
- LM-80 lumen maintenance test report shall be provided for each respective LED light source.
- Luminaire shall be constructed of a single piece die cast aluminum housing. Each luminaire shall be finished metallic graphite in color unless otherwise noted.

- Provide a summary of reliability testing performed for LED driver.
- Luminaire maximum power consumption shall not exceed 130W. Nominal luminaire input wattage shall account for nominal applied voltage and any reduction in driver efficiency due to sub-optimal driver loading.
- Luminaire shall have a maximum BUG rating of 2-0-2 and an IESNA distribution of Type III.
- Minimum Ingress Protection (IP) dust and moisture ratings for the luminaire electrical components (driver and surge protection) and luminaire optical components shall be IP65 and IP66, respectively, as specified in ANSI C136.25.
- Luminaire shall have an external label per ANSI C136.15.
- Luminaires shall have an internal label per ANSI C136.22, respectively. Internal label shall identify the manufacturer, year and month of manufacture and the manufacturer's part number.
- Luminaires shall start and operate in -20°C to +40°C ambient.
- Luminaires shall be rated for continuous service at an ambient temperature of 40°C (104°F)
- Electrically test fully assembled luminaires before shipment from factory.
- Effective Projected Area (EPA) and weight of the luminaires shall not exceed 1.3 square feet and 60 lbs.
- Luminaires shall be designed for ease of electrical component replacement.
- Luminaires shall be rated for minimum 2G vibration, minimum, per ANSI C136.31.
- LED light sources and drivers shall be RoHS compliant.
- The luminaire manufacturer shall have no less than five (5) years of experience in manufacturing LED-based lighting products and the manufacturing facility must be ISO 9001 certified.
- Luminaire mounting adapter shall be sized to fit the Bishop Crook Arm.
- Pole hardware, nuts, bolts, and washers, etc. shall be made from 18-8 stainless steel, or steel conforming to ASTM A307 galvanized in accordance with ASTM A153.
- Grommets shall be installed in cable entry holes. Cable entry holes shall be free from sharp edges which might cut conductors or an ungloved hand.
- All conductors inside the luminaire shall be neatly secured with tie-wraps as needed to prevent pinch points and assist in trouble shooting.

B. Driver

- Rated case temperature shall be suitable for operation in the luminaire operating in the ambient temperature range of -20°C to +40°C.
- Luminaires installed at Roland Ave shall be rated for 208VAC at 50/60 Hz, and shall operate normally for input voltage fluctuations of \pm 10%.
- Shall have a minimum Power Factor (PF) of 0.90 at full input power and across specified voltage range.
- Shall provide UL Class II output.

C. Surge Suppression

• Integral surge protection shall meet ANSI/IEEE C62.45 procedures based on ANSI/IEEE C62.41.2 definitions for standard and optional waveforms for location category C-High 10kV/10kA test, IEC 61000-4-2 (Electrostatic Discharge) 8kV Air/4kV Contact test and IEC 61000-4-4 (Fast Transients).

D. Electromagnetic interference

- Luminaires shall have a maximum Total Harmonic Distortion (THD) of 20% at full input power and across specified voltage range.
- Luminaires shall comply with FCC 47 CFR part 15 non-consumer RFI/EMI standards.

E. Electrical safety testing

- Luminaires shall be listed for wet locations.
- Luminaires shall be UL listed and labeled.

F. Finish

- Luminaires shall be painted with a corrosion resistant polyester powdered paint with a minimum 2.0 mil thickness rated for marine environments.
- Luminaires shall exceed a rating of six per ASTM D1654 after 1000 hours of salt spray fog testing per ASTM B117.
- The coating shall exhibit no greater than 30% reduction of gloss per ASTM D523, after 500 hours of QUV testing at ASTM G154 Cycle 6.
- Exterior surfaces shall be smooth and free of burrs.

G. Thermal management

- Any mechanical design of protruding external surfaces (heat sink fins) on luminaries shall facilitate hose-down cleaning and discourage debris accumulation.
- Liquids or moving parts will not be allowed for thermal management.

H. Color Quality

• Minimum Color Rendering Index (CRI) of 70 with a Correlated Color Temperature (CCT) of 3000K to 4000K

I. Optics

- Transmissive optical components shall be applied in accordance with OEM design guidelines to ensure suitability for the thermal/mechanical/chemical environment.
- J. The following shall be in accordance with corresponding sections of ANSI C136.37
 - All internal components shall be assembled and pre-wired using modular electrical connections.
 - Terminal blocks shall be used for incoming AC lines. Terminal blocks shall be easily accessible to installers or repair personnel. Wire nuts are prohibited inside the luminaire housing.

- K. Latching and hinging
 - Refractor and housing door holders and hinges shall be designed to maintain
 positive control of door to the luminaire body so as not to allow the accidental
 disengagement of either door.
 - Drivers shall be mounted to a housing door designed to be opened from the bottom of the luminaire. Housing door shall allow easy removal for troubleshooting/repair on the ground.
- L. Manufacturer or local sales representative shall provide installation and troubleshooting support via telephone and/or email.

2.30 WARRANTY

Provide a minimum ten-year warranty covering maintained integrity and functionality of the luminaire housing, wiring, and connections, LED light source(s) and LED driver. Negligible light output from more than 10 percent of the LED packages constitutes luminaire failure.

Warranty period shall begin after project acceptance by the Department. The Department will turn these luminaires over to Surf City for ownership and maintenance. Supplier shall furnish documentation of warranty procedures to the Contractor stating that warranty is for Surf City.

2.40 CONSTRUCTION METHODS

Level and secure each luminaire in all directions. Adjust any luminaires, as directed by the Engineer, to provide optimal illumination distribution.

All LED packages on all luminaires must be operating normally at contract completion. Any luminaire displaying improper operating characteristics prior to contract completion will be replaced by the Contractor at no additional cost to the Department.

2.50 MEASUREMENT AND PAYMENT

Payment will be made under:

The quantity of LED Luminaires, measured as provided above, will be paid for at the contract unit price each for "Downlight Luminaire, LED" of the appropriate type and style. Such price and payment will be full compensation for all work of furnishing and installing the luminaire, wiring inside the standard from circuit conductors to luminaire, in-line breakaway fuses and ground wiring at the pole.

,		
	Downlight Luminaire, LED	Each

3.00 LIGHT STANDARDS

3.10 DESCRIPTION

The work covered by this section consists of furnishing and installing direct buried light standards with twin Bishops Crook arms with cross rod attachments. These light standards shall be used to mount the luminaires described in Section 2.00 of these Special Provisions.

3.20 MATERIALS

Provide a round, tapered, direct buried light standard that meets the 100-mph design criteria of the AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals."

The light standard shall be powder coated in a graphite metallic finish.

Include a flush mounted 15 Amp, 120-volt GFCI duplex electrical receptacle with a hinged, weatherproof cover, mounted below the luminaires, as shown in the plans.

The light standard shall be sized to provide a nominal luminaire mounting height of 16 ft. The light standard shall be constructed to accommodate the Bishops Crook twin arm mounting adapter. The Bishops Crook shall be sized to offset the luminaire from the light standard as shown in the detail drawing on sheet E4 of the plans.

Use pole hardware, nuts, bolts, and washers, etc. made from 18-8 stainless steel, aluminum alloy 2024-T4, or steel conforming to ASTM A307 and galvanized in accordance with ASTM A 153.

Drawings submitted for approval shall show material specifications, dimensions and shall have a certification statement concerning conformance with AASHTO design criteria. Only reviewed and approved materials will be used.

3.30 CONSTRUCTION METHODS

Identify light standards as shown on the plans. Adjust final location as per direction of the Engineer to avoid conflicts with other objects. Protect the shaft during storage and installation to ensure against scratches or dents. Use proper blocking and protection to prevent warping or discoloration when laid on the ground, and to prevent damage by other construction work.

Install all standards vertically plumb, and provide the required luminaire mounting height.

3.40 MEASUREMENT AND PAYMENT

The quantity of standards to be paid for will be the actual number that have been installed and accepted.

The quantity of standards measured as provided above will be paid for at the contract unit price each for "Light Standard with Bishops Crook Twin Arm, Type DB, 16' MH" of the appropriate type. Such price and payment will be full compensation for all work of furnishing and installing the standard and Bishops Crook twin arm attachment.

Payment will be made under:

Light Standard with Bishops Crook Twin Arm, Type DB, 16' MH Each

4.00 STANDARD FOUNDATION TYPE R1S1

4.10 DESCRIPTION

Work covered by this section shall be in conformance with the Special Provision titled "Foundations and Anchor Rod Assemblies for Metal Poles" found in other sections of this contract.

4.20 MATERIALS

Same as the Special Provision titled "Foundations and Anchor Rod Assemblies for Metal Poles" found in other sections of this contract.

4.30 CONSTRUCTION METHODS

Light standard foundation type R1S1 for flagpole lights shall be equal to type R1 on standard drawing 1405.01 except as stated below.

The type R1S1 foundation shall be 16" diameter by 24" deep. Integral anchor bolts are not required.

4.40 MEASUREMENT AND PAYMENT

The quantity of R1S1 foundations to be paid for will be the actual number that have been installed and accepted.

The quantity of R1S1 foundations measured as provided above will be paid for at the contract unit price each for "R1S1 Foundation" of the appropriate type. Such price and payment will be full compensation for all work and material required for excavating, furnishing and installing the foundation.

Payment	will	be	made	under:
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R1S1 Foundation		Eac	ìh
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5.00 FLAGPOLE LUMINAIRE

5.10 DESCRIPTION

The work covered by this section includes furnishing and installing all materials necessary to provide a LED flood luminaire mounted on a concrete foundation near the flagpole. This luminaire is used to provide nighttime illumination on the United States flag.

The Contractor shall supply LED flood luminaires similar to the one specified below or approved equal. Manufacturer's name and model number are given for descriptive purposes, to indicate a quality standard and are not intended to limit products to a particular manufacturer. Products deemed equal and approved by the Engineer will be accepted.

Beacon Lighting Product	Beacon Part Number
Description	
Alpha (LED) Floodlight	AL-U/36L-80/5K7/4x4/UNV-120-277V/7PR/SC/PM/GTT

Any alternate luminaire submitted for approval must meet the minimum requirements below.

5.20 MATERIALS

5.20.1 LUMINAIRE REQUIREMENTS

A. General Requirements

- LM-79 photometric test reports shall be provided for all LED luminaires. LM-79 luminaire photometric reports shall be produced by an independent test laboratory and include the following:
 - Name of test laboratory. The test laboratory must hold National Voluntary Laboratory Accreditation Program (NVLAP) accreditation for the IES LM-79 test procedure or must be qualified, verified, and recognized through the U.S. Department of Energy's CALiPER program.
 - Report number
 - Date
 - Complete luminaire catalog number. Catalog number tested must match the catalog number of the luminaire submitted, except for variations which do not affect performance.
 - Description of luminaire, LED light source(s), and LED driver(s)
 - Goniophotometry
 - Colorimetry
- LM-80 lumen maintenance test report shall be provided for each respective LED light source.

- Luminaire shall be constructed of an aluminum housing and finished in a metallic graphite color.
- Luminaire shall provide a minimum of 9,440 lumens.
- Luminaires shall have a maximum lamp lumen depreciation (LLD) factor of 0.85 at 70,000 hours & 25°C. Provide a summary of reliability testing performed for LED driver.
- Nominal luminaire input wattage shall account for nominal applied voltage and any reduction in driver efficiency due to sub-optimal driver loading.
- Luminaires shall start and operate in -20° C to +40° C ambient.
- Luminaires shall be rated for continuous service at an ambient temperature of 40° C (104° F)
- Electrically test fully assembled luminaires before shipment from factory.
- Effective Projected Area (EPA) and weight of the luminaires shall not exceed 1.5 square feet and 30 pounds.
- Luminaires shall be designed for ease of electrical component replacement.
- Luminaires shall be rated for minimum 2G vibration, minimum, per ANSI C136.31.
- LED light sources and drivers shall be RoHS compliant.
- The luminaire manufacturer shall have no less than five (5) years of experience in manufacturing LED-based lighting products and the manufacturing facility must be ISO 9001 certified.
- Luminaire shall have a yoke or knuckle mount.
- Grommets shall be installed in cable entry holes. Cable entry holes shall be free from sharp edges which might cut conductors or an ungloved hand.
- All conductors inside the luminaire shall be neatly secured with tie-wraps as needed to prevent pinch points and assist in trouble shooting.

B. Driver

- Rated case temperature shall be suitable for operation in the luminaire operating in the ambient temperature range of -20° C to $+40^{\circ}$ C.
- Shall be rated for 480VAC at 50/60 Hz, and shall operate normally for input voltage fluctuations of \pm 10%.
- Shall have a minimum Power Factor (PF) of 0.90 at full input power and across specified voltage range.
- Shall provide UL Class II output.

C. Surge Suppression

• Integral surge protection shall meet ANSI/IEEE C62.45 procedures based on ANSI/IEEE C62.41.2 definitions for standard and optional waveforms for location category C 10kV/5kA test, IEC 61000-4-2 (Electrostatic Discharge) 8kV Air/4kV Contact test and IEC 61000-4-4 (Fast Transients).

D. Electromagnetic interference

- Luminaires shall have a maximum Total Harmonic Distortion (THD) of 20% at full input power and across specified voltage range.
- Luminaires shall comply with FCC 47 CFR part 15 non-consumer RFI/EMI standards.

E. Electrical safety testing

- Luminaires shall be listed for outside type locations.
- Luminaires shall be UL listed and labeled.

F. Finish

- Luminaires shall be painted with a corrosion resistant polyester powdered paint with a minimum 2.0 mil thickness.
- Luminaires shall exceed a rating of six per ASTM D1654 after 1000 hours of salt spray fog testing per ASTM B117.
- The coating shall exhibit no greater than 30% reduction of gloss per ASTM D523, after 500 hours of QUV testing at ASTM G154 Cycle 6.
- Exterior surfaces shall be smooth and free of burrs.

G. Thermal management

- Mechanical design of protruding external surfaces (heat sink fins) shall discourage debris accumulation.
- Liquids or moving parts will not be allowed for thermal management.

H. Color Quality

• Minimum Color Rendering Index (CRI) of 70 with a Correlated Color Temperature (CCT) of 5000K

I. Optics

- Transmissive optical components shall be applied in accordance with OEM design guidelines to ensure suitability for the thermal / mechanical / chemical environment.
- The LED light engines shall be contained behind a sealed and gasketed optical enclosure with an IP66 rating.
- J. The following shall be in accordance with corresponding sections of ANSI C136.37
 - All internal components shall be assembled and pre-wired using modular electrical connections.

• Terminal blocks shall be used for incoming AC lines. Terminal blocks shall be easily accessible to installers or repair personnel. Wire nuts shall be prohibited inside the luminaire housing.

K. Latching and hinging

• Refractor and housing hinges shall be designed to maintain positive control of door to the luminaire body so as not to allow the accidental disengagement.

Do not use aluminum conductors. Use single copper conductor with XHHW insulation from the nearby junction box to the flag light fixture.

5.30 WARRANTY

Provide a minimum five-year warranty covering maintained integrity and functionality of the luminaire housing, wiring, and connections, LED light source(s) and LED driver. Negligible light output from more than ten percent of the LED packages constitutes luminaire failure.

Warranty period shall begin after project acceptance by the Department. The Department will turn these luminaires over to Surf City for ownership and maintenance. Supplier shall furnish documentation of warranty procedures to the Contractor stating that warranty is for Surf City.

All LED packages on all luminaires must be operating normally at contract completion. Any luminaire displaying improper operating characteristics prior to contract completion will be replaced by the Contractor at no additional cost to the Department.

5.40 CONSTRUCTION METHODS

Mount luminaire to a type R1S1 foundation. See Section 4.00 of these Special Provisions for R1S1 foundation requirements.

Flagpole luminaire shall be mounted to the R1S1 foundation using a 3" pier mount. The pier mount shall consist of a 2-3/8" tenon on a 12" square mounting plate. Follow manufacturer's installation instructions for securing fixture and sealing fixture to prevent water infiltration.

Install PVC conduit from ground mounted junction box to and in the R1S1 foundation. Extend conduit in the foundation to the top of the foundation. See Roadway Lighting Plan Sheet E4 for details.

Level and secure each flagpole luminaire in all directions. Securely terminate the wiring for each flagpole luminaire and include an equipment grounding conductor to bond the housing to the supply cord grounding conductor.

Adjust any flagpole luminaires, as directed by the Engineer, to provide optimal illumination distribution to the United States Flag.

All LED flagpole luminaires must be operating normally at contract completion. Any flagpole luminaire displaying improper operating characteristics prior to contract completion will be replaced by the Contractor at no additional cost to the Department.

5.50 MEASUREMENT AND PAYMENT

The flagpole luminaires measured as provided above will be paid for at the contract unit price per each "Flagpole Light". Such price and payment will be considered full compensation for providing and installing the flagpole luminaire on the concrete base, and connection of circuitry.

Payment will be made under:

Flagpole Light Each



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TC-1
B-4929
Pender County

WORK ZONE TRAFFIC CONTROL Project Special Provisions Table of Contents

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ADA Compliant Pedestrian Traffic Control Devices	TC-5
Lump Sum Payment for Traffic Control	TC-7



Docusigned by:

Kenneth C. Thornewell fr., P.C.

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5/5/2021

B-4929 Pender County

PEDESTRIAN ACCOMODATION AT WORK LOCATIONS

(8-28-2020) RWZ-4

This special provision applies any time a continuous pedestrian facility is blocked by active work, contractor vehicles or equipment, or material storage. The Contractor shall maintain pedestrian movements in accordance with this provision and the *NCDOT Guidelines for the Level of Pedestrian Accommodation in Work Zones* found at the following link:

https://connect.ncdot.gov/projects/WZTC/Pages/PedSafety.aspx.

The contractor shall not perform work on both sides of a roadway at multiple locations that blocks a continuous pedestrian facility without prior approval of the Engineer.

Pedestrian accommodation during construction is not required at sidewalks and curb ramp locations that are determined by the Engineer to be non-continuous. This is defined by a lack of connectivity to existing pedestrian facilities (including worn foot paths) to pedestrian traffic generators and attractors. At these locations, close the existing pedestrian facility with an ADA compliant pedestrian channelizing device.

Continuous pedestrian facilities are sidewalks or worn foot paths that do connect pedestrian generators and attractors. The Contractor shall plan work on continuous pedestrian facilities in a manner that minimizes the duration of any disruption to this connectivity. At each work location on a continuous pedestrian facility, the Contractor shall complete all work at that location before beginning work at another location if that work prevents continuous pedestrian movement.

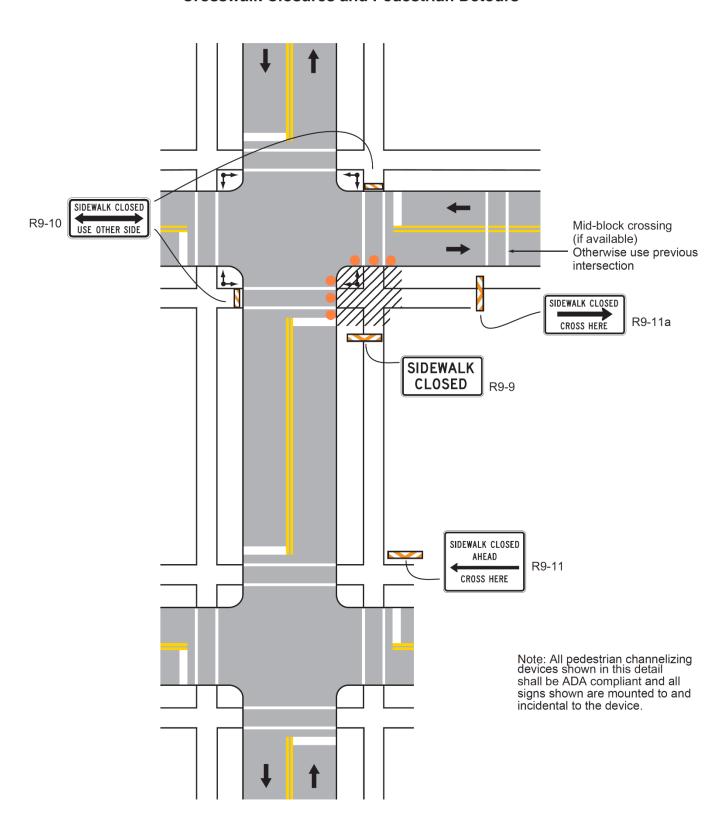
While performing work on continuous pedestrian facilities, the contractor shall maintain pedestrian accommodations as follows:

- 1. If the Contractor is on-site and actively working at a sidewalk location, the Contractor may provide a dedicated traffic control employee to assist/direct pedestrians around the work site or to the nearest intersection. This employee shall be capable of orally communicating with the visually disabled so that they understand the assistance being provided. If a dedicated employee is not available or used, the Contractor shall provide pedestrian accommodations by any of the other methods described below.
- 2. The contractor may provide a temporary pedestrian detour if the following conditions are met:
 - A. The pedestrian traffic control devices are compliant with Figure 1: Crosswalk Closures and Pedestrian Detours and the ADA Compliant Pedestrian Traffic Control Devices special provision found elsewhere in this Contract.

B-4929 Pender County

- B. The pedestrian detour is approved by the Engineer.
- C. The accessibility features of the detour are consistent with the closed facility.
- D. The additional detour length is ½ mile or less.
- E. There are no existing accessible pedestrian signals within ½ mile of the work location. Accessible pedestrian signals have audible locator tones and may also have speech walk messages or tones indicating permissible crossing and/or audible countdowns.
- F. ADA compliant pedestrian channelizing devices are used at the hard and soft closure locations and decision points along the detour route. A hard closure is a point at which there is no safe access for the user beyond it. A soft closure is a point in advance of the hard closure that indicates the need for the user to move to the detour to continue towards their destination and avoid obstacles in current path.
- 3. If the Contractor is not on-site and/or is unable to provide an escort and a pedestrian detour is not permitted, then the contractor shall close the pedestrian facility and provide a Pedestrian Transport Service and Audible Warning Devices as described elsewhere in this Contract. Safe pickup and drop off locations shall be approved by the Engineer before implementation.

FIGURE 1
Crosswalk Closures and Pedestrian Detours



ADA COMPLIANT PEDESTRIAN TRAFFIC CONTROL DEVICES:

(10/31/2017)

Description

Furnish, install, and maintain all ADA compliant pedestrian traffic control devices for existing pedestrian facilities that are disrupted, closed, or relocated by planned work activities.

The ADA compliant pedestrian traffic control devices used to either close, redirect, divert or detour pedestrian traffic are Pedestrian Channelizing Devices, Audible Warning Devices and Temporary Curb Ramps.

Construction Methods

The ADA compliant pedestrian traffic control devices involved in the closing or redirecting of pedestrians as designated on the Transportation Management Plan (TMP) shall be manufactured and assembled in accordance with the requirements of the Americans with Disabilities Act (ADA) and be on the NCDOT approved products list.

Pedestrian Channelizing Devices shall be manufactured and assembled to be connected as to eliminate any gaps that allow pedestrians to stray from the channelizing path. Any Pedestrian Channelizing Devices used to close or block a pedestrian facility shall have a "SIDEWALK CLOSED" sign affixed to it and any audible warning devices, if designated on the TMP.

Audible Warning Devices shall be manufactured to include a locator tone activated by a motion sensor and have the ability to program a message for a duration of at least 1 minute. The motion sensor shall have the ability to detect pedestrians a minimum of 10' away. The voice module may be automatic or it may be push button activated. If push button activated, it shall be mounted at a height of approximately 3.5 feet, but no more than 4 feet, above the pedestrian facility.

Temporary Curb Ramps shall be manufactured and assembled to meet all of the requirements for persons with walking disabilities, including wheelchair confinement, according to the ADA regulations and Roadway Standard Drawing 848.05. All detectable warning features are to be included with these installations.

Measurement and Payment

Pedestrian Channelizing Devices will be measured and paid as the maximum number of linear feet of Pedestrian Channelizing Devices furnished, acceptably placed, and in use at any one time during the life of the project.

No direct payment will be made for any sign affixed to a pedestrian channelizing device. Signs mounted to pedestrian channelizing devices will be considered incidental to the device.

Audible Warning Devices will be measured and paid as the maximum number of Audible Warning Devices furnished, acceptably installed, and in use at any one time during the life of the project.

Relocation, replacement, repair, maintenance, or disposal of *Pedestrian Channelizing Devices* and *Audible Warning Devices* will be incidental to the pay item.

Temporary Curb Ramps will be measured and paid as the actual number of Temporary Curb Ramps furnished, acceptably installed, and in use. Temporary Curb Ramps will be paid for each time a curb ramp is moved from one location on the project to another location on the project.

Payment will be made under:

Pay Item	Pay Unit
Pedestrian Channelizing Devices	Linear Foot
Audible Warning Devices	Each
Temporary Curb Ramps	Each

TEMPORARY TRAFFIC CONTROL

(02/19/2021)

GENERAL REQUIREMENTS

The Contractor shall maintain traffic on all roads during construction and shall furnish, install, relocate, maintain, and remove traffic control devices as shown in the *Roadway Standard Drawings* or as directed by the Engineer.

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 Standard Drawing No. 1101.01 of the 2018 Roadway Standard Drawings prior to beginning any other work.

Remove lane closure devices from the lane when work is not being performed behind the lane closure or when a lane closure is no longer needed or as directed by the Engineer.

When Personnel and/or equipment are working within 15 ft. of an open travel lane, close the nearest open shoulder using Roadway Standard Drawing No. 1101.04 unless the work area is protected by barrier or guardrail or a lane closure is installed.

When personnel and/or equipment are working on the shoulder adjacent to an undivided facility and within 5 ft. of an open travel lane, close the nearest open travel lane using Roadway Standard

Drawing No. 1101.02 of the 2018 Roadway Standard Drawings unless the work area is protected by barrier or quardrail.

When personnel and/or equipment are working on the shoulder adjacent to a divided facility and within 10 ft. of an open travel lane, close the nearest open travel lane using Roadway Standard Drawing No. 1101.02 of the 2018 Roadway Standard Drawings, unless the work area is protected by barrier or quardrail.

When personnel and/or equipment are working within a lane of travel of an undivided or divided facility, close the lane using Roadway Standard Drawing No. 1101.02 of the 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. Perform work only when weather and visibility conditions allow safe operations as directed by the Engineer.

Do not work simultaneously within 15 ft. on both sides of an open travelway, ramp, or loop within the same location, unless protected with guardrail or barrier.

Notify the Engineer (30) calendar days prior to any traffic pattern alteration.

Ensure all necessary signing is in place prior to altering any traffic pattern.

Law Enforcement shall be used to maintain traffic through the work area and/or intersections as directed by the Engineer.

Contractor shall maintain sidewalk access at all times in accordance with the PEDESTRIAN ACCOMODATION AT WORK LOCATIONS and ADA COMPLIANT PEDESTRIAN TRAFFIC CONTROL DEVICES special provisions.

When lane closures are not in effect, space channelizing devices in work areas no greater in feet than twice the posted speed limit (MHP), except 10 ft. on-center in radii, and 3 ft. off the edge of an open travelway. Refer to 2018 Standard Specifications Sections 1130 (Drums), 1135 (Cones), and 1180 (Skinny Drums) for additional requirements.

Place additional sets of three channelizing devices (Drums, Cones, or Skinny Drums) perpendicular to the edge of travelway on 100 to 500 ft. centers (as directed by the Engineer) when unopened lanes are closed to traffic.

Time Restrictions for Lane Closure and Road Closure Activities

All lane closure and road closure activities shall be performed in compliance with the Day and Time restrictions listed and defined in this Contract.

Any activities performed outside of these requirements will be subject to the Liquidated Damages unless approved by the Engineer prior to beginning the activity.

The Contractor may place/pre-stage all required signs and traffic control devices necessary for lane closures prior to the closure time as approved by the Engineer. The travel lane(s) are to be closed at the prescribed times defined in this Contract.

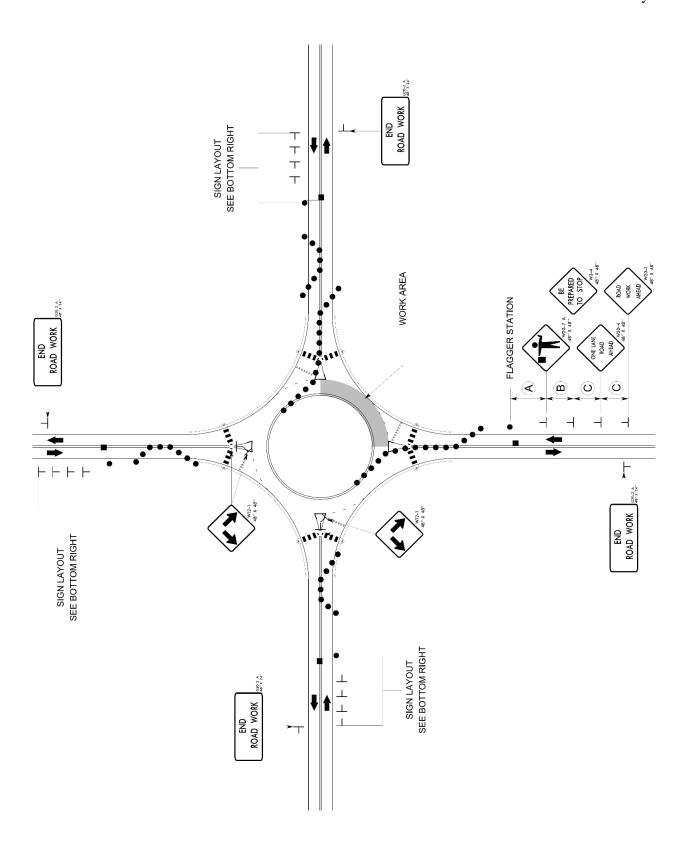
For removal, the lane(s) must be reopened in compliance with the times defined in this Contract. It is acceptable to remove the signs and traffic control devices from the shoulder/staging area after the lane(s) are reopened to traffic.

TEMPORARY TRAFFIC CONTROL (TTC)

Refer to Standard Drawing No. 1101.01, 1101.02, 1101.04, 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 the work zone. Refer to the notes below and attached drawing when closing a lane of travel in a roundabout.

Traffic Control at Single Lane Roundabouts

- 1. Each roundabout is unique, and the traffic control must be developed to meet the specific conditions of the location and the work operation. A detour could possibly better serve traffic movement and must be considered as an alternative to a flagging operation.
- 2. Flaggers shall control traffic flow on all approaches of the one lane roundabout.
- 3. A lead flagger shall be designated, and radio communication shall be used by the flaggers.
- 4. Only one quadrant of traffic shall be released at a time.
- 5. At night, flagger stations shall be illuminated. Streetlights and vehicle headlights shall not be used to illuminate the flagger station.
- 6. Refer to RSD 1101.11, sheet 1 & 4, for "1" distance and sign spacing.
- 7. Extend lane closures at the buffer space such that stopping sight distance is provided to the flagger (refer to RSD 1101.11, sheet 2 of 4).
- 8. Periodic adjustments to the channelizing devices may be allowed in an active work zone to accommodate the turning movements of tractor trailer vehicles and other large vehicles.
- 9. Flagging operations may not be necessary when working on the shoulders or in the island of the roundabout. If a driving lane(s) width of at least 10 feet (or more depending on the design of the vehicle) can be maintained while shoulder work on an approach is being conducted, the driving lane(s) may remain open to traffic. Road work ahead, shoulder work ahead and/or shoulder closed signs should be used where applicable, along the lane or shoulder tapers and work area delineation.
- 10. Do not install advance warning signs more than 3 days prior to beginning of work unless covered.
- 11. Cover existing signs that conflict with work zone traffic pattern during active work hours. Uncover signs whenever work is not taking place.
- 12. Provide pedestrian accommodations when closing off crosswalks.
- 13. Install single lane roundabout closure so that vehicles avoid traversing concrete/medians along roundabout.



Drums are recommended for all lane closure operations occurring at night. If the contractor elects to use skinny drums at night, the contractor shall space skinny drums no greater than 20 ft. apart in the tangent sections of the lane closure. Skinny drums shall not be used for tapers. 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. Tape shall not be affixed to the sign sheeting at any time.

TRAFFIC OPERATIONS

1. Project Requirements:

The Contractor shall comply with the following requirements. Non-compliance will result in a suspension of all work operations:

- A. Submit a written construction sequence for traffic control and construction lighting to the Engineer prior to the first pre-construction meeting. The sequence must be approved before beginning work or closing a lane of traffic. The Contractor and Engineer will coordinate with the Regional Work Zone Traffic Control Engineer for additional traffic control guidance, as necessary.
- B. Obtain written approval of the Engineer before working in more than one location or setting up additional lane closures.
- C. The Contractor on this and any adjacent projects, or subcontractors working within this project shall coordinate lane closure location, type, and direction with the Engineer to best maintain lane continuity through the limits of this and adjacent projects.
- D. Operate equipment and conduct operations in the same direction as the flow of traffic unless the operation is protected by barrier or guardrail or as directed by the Engineer. Maintain vehicular access in accordance with Section 1101-05 of the 2018 Standard Specifications.
- E. Provide appropriate construction lighting in accordance with Section 1413 of the 2018 Standard Specifications.

2. Work Zone Signing:

A. Description

Install and maintain signing in accordance with the Divisions 10 and 11 of the 2018 Standard Specifications.

B. Installation

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

Install all Advance/General warning work zone signs before beginning work. If signs are installed more than three (3) calendar days prior to the beginning of work, 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 sign locations to be verified by the Engineer prior to installation.

If there is a period of construction inactivity longer than fourteen (14) calendar days, remove or cover advance/general warning work zone signs. Uncover advance/general warning work zone signs no more than three (3) 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.

C. Sign Removal

Once the Project is substantially completed, the Contractor shall remove the Stationary Work Zone Signs. Any remaining punch list items requiring traffic control are to be completed with portable work zone signing.

MEASUREMENT AND PAYMENT

Temporary Traffic Control (Lump Sum) shall include but not be limited to providing Signs (portable, stationary, or barricade), including detour signing, Truck Mounted Attenuators (TMA), Portable Changeable Message Signs (PCMS), Flashing Arrow Boards (FAB), Pilot Vehicle, Flaggers, Cones, Skinny Drums and Drums as shown in the applicable Roadway Standard Drawings and all labor, tools, equipment and incidentals necessary to furnish, install, maintain and remove traffic control devices when no longer required.

Payment for *Temporary Traffic Control (Lump Sum)* will be made on the following schedule:

- (A) 70% of the unit bid price upon starting the project
- (B) 20% of the unit bid price when the project is 50% complete
- (C) 10% of the unit bid price when the project is 100% complete and all traffic control devices have been removed from the project.

Pedestrian Channelizing Devices, Audible Warning Devices, and Temporary Curb Ramps will be measured and paid in accordance with the ADA COMPLIANT PEDESTRIAN TRAFFIC CONTROL DEVICES special provision.

Payment will be made under:

Pay Item
Temporary Traffic Control

Pay Unit Lump Sum

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.

ERRATA

(10-16-18) (Rev.2-16-21) Z-4

Revise the 2018 Standard Specifications as follows:

Division 6

Page 6-7, Article 609-1 DESCRIPTION, line 29, replace article number "609-10" with "609-9".

Division 7

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

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

Division 10

Page 10-78, Article 1056-4 GEOTEXTILES, TABLE 1056-1, Permittivity, Type 2, replace "Table 6^D" with "Table 7^D" and Permittivity, Type 3^B, replace "Table 7^D" with "Table 8^D".

Page 10-121, Article 1076-7, REPAIR OF GALVANIZING, line 8, replace article number "1080-9" with "1080-7".

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

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

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

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

Division 17

Page 17-15, Article 1715-4 MEASUREMENT AND PAYMENT, lines 42-44, replace the second sentence with the following:

An example is an installation of a single 1.25 inch HDPE conduit would be paid as:

Directional Drill (1)(1.25") Linear Foot

PLANT AND PEST QUARANTINES

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

(3-18-03) (Rev. 5-21-19) 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 https://www.ncagr.gov/plantindustry/Plant/quaran/table2.htm 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, guava root knot nematode, or other noxious weeds.

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.

TITLE VI AND NONDISCRIMINATION:

(6-28-77)(Rev 6/19/2018)

Z-6

Revise the 2018 Standard Specifications as follows:

Replace Article 103-4(B) with the following:

The North Carolina Department of Transportation is committed to carrying out the U.S. Department of Transportation's policy of ensuring nondiscrimination in the award and administration of contracts.

The provisions of this section related to United States Department of Transportation (US DOT) Order 1050.2A, Title 49 Code of Federal Regulations (CFR) part 21, 23 United States Code (U.S.C.) 140 and 23 CFR part 200 (or 49 CFR 303, 49 U.S.C. 5332 or 49 U.S.C. 47123) are applicable to all North Carolina Department of Transportation (NCDOT) contracts and to all related subcontracts, material supply, engineering, architectural and other service contracts, regardless of dollar amount. Any Federal provision that is specifically required not specifically set forth is hereby incorporated by reference.

(1) Title VI Assurances (USDOT Order 1050.2A, Appendix A)

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

(a) Compliance with Regulations

The contractor (hereinafter includes consultants) shall comply with the Acts and the Regulations relative to Nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration (FHWA), as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

(b) Nondiscrimination

The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

- (c) Solicitations for Subcontractors, Including Procurements of Materials and Equipment In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Nondiscrimination on the grounds of race, color, or national origin.
- (d) Information and Reports

The contractor shall provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the FHWA to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor shall so certify to the Recipient or the FHWA, as appropriate, and shall set forth what efforts it has made to obtain the information.

(e) Sanctions for Noncompliance:

In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it and/or the FHWA may determine to be appropriate, including, but not limited to:

- (i) Withholding payments to the contractor under the contract until the contractor complies; and/or
- (ii) Cancelling, terminating, or suspending a contract, in whole or in part.

(f) Incorporation of Provisions

The contractor shall include the provisions of paragraphs (a) through (f) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor shall take action with respect to any subcontract or procurement as the Recipient or the FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

(2) Title VI Nondiscrimination Program (23 CFR 200.5(p))

The North Carolina Department of Transportation (NCDOT) has assured the USDOT that, as a condition to receiving federal financial assistance, NCDOT will comply with Title VI of the Civil Rights Act of 1964 and all requirements imposed by Title 49 CFR part 21 and related nondiscrimination authorities to ensure that no person shall, on the ground of race, color, national origin, limited English proficiency, sex, age, or disability (including religion/creed or income-level, where applicable), be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any programs, activities, or services conducted or funded by NCDOT. Contractors and other organizations under contract or agreement with NCDOT must also comply with Title VI and related authorities, therefore:

- (a) During the performance of this contract or agreement, contractors (e.g., subcontractors, consultants, vendors, prime contractors) are responsible for complying with NCDOT's Title VI Program. Contractors are not required to prepare or submit Title VI Programs. To comply with this section, the prime contractor shall:
 - 1. Post NCDOT's Notice of Nondiscrimination and the Contractor's own Equal Employment Opportunity (EEO) Policy in conspicuous locations accessible to all employees, applicants and subcontractors on the jobsite.
 - 2. Physically incorporate the required Title VI clauses into all subcontracts on federally-assisted and state-funded NCDOT projects, and ensure inclusion by subcontractors into all lower-tier subcontracts.
 - 3. Required Solicitation Language. The Contractor shall include the following notification in all solicitations for bids and requests for work or material, regardless of funding source: "The North Carolina Department of Transportation, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 US.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award. In accordance with other related nondiscrimination authorities, bidders and contractors will also not be discriminated against on the grounds of sex, age, disability, low-income level, creed/religion, or limited English proficiency in consideration for an award."

- 4. Physically incorporate the FHWA-1273, in its entirety, into all subcontracts and subsequent lower tier subcontracts on Federal-aid highway construction contracts only.
- 5. Provide language assistance services (i.e., written translation and oral interpretation), free of charge, to LEP employees and applicants. Contact NCDOT OCR for further assistance, if needed.
- 6. For assistance with these Title VI requirements, contact the NCDOT Title VI Nondiscrimination Program at 1-800-522-0453.
- (b) Subrecipients (e.g. cities, counties, LGAs, planning organizations) may be required to prepare and submit a Title VI Plan to NCDOT, including Title VI Assurances and/or agreements. Subrecipients must also ensure compliance by their contractors and subrecipients with Title VI. (23 CFR 200.9(b)(7))
- (c) If reviewed or investigated by NCDOT, the contractor or subrecipient agrees to take affirmative action to correct any deficiencies found within a reasonable time period, not to exceed 90 calendar days, unless additional time is granted by NCDOT. (23 CFR 200.9(b)(15))
- (d) The Contractor is responsible for notifying subcontractors of NCDOT's External Discrimination Complaints Process.
 - 1. Applicability

Title VI and related laws protect participants and beneficiaries (e.g., members of the public and contractors) from discrimination by NCDOT employees, subrecipients and contractors, regardless of funding source.

2. Eligibility

Any person—or class of persons—who believes he/she has been subjected to discrimination based on race, color, national origin, Limited English Proficiency (LEP), sex, age, or disability (and religion in the context of employment, aviation, or transit) may file a written complaint. The law also prohibits intimidation or retaliation of any sort.

3. Time Limits and Filing Options

Complaints may be filed by the affected individual(s) or a representative and must be filed no later than 180 calendar days after the following:

- (i) The date of the alleged act of discrimination; or
- (ii) The date when the person(s) became aware of the alleged discrimination; or
- (iii) Where there has been a continuing course of conduct, the date on which that conduct was discontinued or the latest instance of the conduct.

Title VI and related discrimination complaints may be submitted to the following entities:

- North Carolina Department of Transportation, Office of Civil Rights, Title VI Program, 1511 Mail Service Center, Raleigh, NC 27699-1511; toll free 1-800-522-0453
- ➤ Federal Highway Administration, North Carolina Division Office, 310 New Bern Avenue, Suite 410, Raleigh, NC 27601, 919-747-7010
- ➤ US Department of Transportation, Departmental Office of Civil Rights, External Civil Rights Programs Division, 1200 New Jersey Avenue, SE, Washington, DC 20590; 202-366-4070

4. Format for Complaints

Complaints must be in writing and signed by the complainant(s) or a representative, and include the complainant's name, address, and telephone number. Complaints received by fax or e-mail will be acknowledged and processed. Allegations received by telephone will be reduced to writing and provided to the complainant for confirmation or revision before processing. Complaints will be accepted in other languages, including Braille.

5. Discrimination Complaint Form

Contact NCDOT Civil Rights to receive a full copy of the Discrimination Complaint Form and procedures.

6. Complaint Basis

Allegations must be based on issues involving race, color, national origin (LEP), sex, age, disability, or religion (in the context of employment, aviation or transit). "Basis" refers to the complainant's membership in a protected group category.

TABLE 103-1 COMPLAINT BASIS					
Protected Categories	Definition	Examples	Applicable Nondiscrimination Authorities		
Race and Ethnicity	An individual belonging to one of the accepted racial groups; or the perception, based usually on physical characteristics that a person is a member of a racial group	Black/African American, Hispanic/Latino, Asian, American Indian/Alaska Native, Native Hawaiian/Pacific Islander, White	Title VI of the Civil Rights Act of 1964; 49 CFR Part 21; 23 CFR 200; 49 U.S.C. 5332(b); 49 U.S.C. 47123. (Executive Order 13166)		
Color	Color of skin, including shade of skin within a racial group	Black, White, brown, yellow, etc.			
National Origin (Limited English Proficiency)	Place of birth. Citizenship is not a factor. (Discrimination based on language or a person's accent is also covered)	Mexican, Cuban, Japanese, Vietnamese, Chinese			
Sex	Gender. The sex of an individual. Note: Sex under this program does not include sexual orientation.	Women and Men	1973 Federal-Aid Highway Act; 49 U.S.C. 5332(b); 49 U.S.C. 47123.		
Age	Persons of any age	21-year-old person	Age Discrimination Act of 1975 49 U.S.C. 5332(b); 49 U.S.C. 47123.		
Disability	Physical or mental impairment, permanent or temporary, or perceived.	Blind, alcoholic, para-amputee, epileptic, diabetic, arthritic	Section 504 of the Rehabilitation Act of 1973; Americans with Disabilities Act of 1990		
Religion (in the context of employment) (Religion/ Creed in all aspects of any aviation or transit-related construction)	An individual belonging to a religious group; or the perception, based on distinguishable characteristics that a person is a member of a religious group. In practice, actions taken as a result of the moral and ethical beliefs as to what is right and wrong, which are sincerely held with the strength of traditional religious views. <i>Note:</i> Does not have to be associated with a recognized religious group or church; if an individual sincerely holds to the belief, it is a protected religious practice.	Muslim, Christian, Sikh, Hindu, etc.	Title VII of the Civil Rights Act of 1964; 23 CFR 230; FHWA-1273 Required Contract Provisions. (49 U.S.C. 5332(b); 49 U.S.C. 47123)		

(3) Pertinent Nondiscrimination Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest agrees to comply with the following non-discrimination statutes and authorities, including, but not limited to:

- (a) Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- (b) The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- (c) Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- (d) Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability) and 49 CFR Part 27;
- (e) The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- (f) Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- (g) The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- (h) Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- (i) The Federal Aviation Administration's Nondiscrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- (j) Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures Nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- (k) Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of Limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- (1) Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).
- (m) Title VII of the Civil Rights Act of 1964 (42 U.S.C. § 2000e et seq., Pub. L. 88-352), (prohibits employment discrimination on the basis of race, color, religion, sex, or national origin).

(4) Additional Title VI Assurances

- **The following Title VI Assurances (Appendices B, C and D) shall apply, as applicable
- (a) Clauses for Deeds Transferring United States Property (1050.2A, Appendix B)

 The following clauses will be included in deeds effecting or recording the transfer of real property, structures, or improvements thereon, or granting interest therein from the United States pursuant to the provisions of Assurance 4.

NOW, THEREFORE, the U.S. Department of Transportation as authorized by law and upon the condition that the North Carolina Department of Transportation (NCDOT) will accept title to the lands and maintain the project constructed thereon in accordance with the North Carolina General Assembly, the Regulations for the Administration of the Federal-Aid Highway Program, and the policies and procedures prescribed by the Federal Highway Administration of the U.S. Department of Transportation in accordance and in compliance with all requirements imposed by Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the U.S Department of Transportation pertaining to and effectuating the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252; 42 U.S.C. § 2000d to 2000d-4), does hereby remise, release, quitclaim and convey unto the NCDOT all the right, title and interest of the U.S. Department of Transportation in and to said lands described in Exhibit A attached hereto and made a part hereof.

(HABENDUM CLAUSE)

TO HAVE AND TO HOLD said lands and interests therein unto the North Carolina Department of Transportation (NCDOT) and its successors forever, subject, however, to the covenants, conditions, restrictions and reservations herein contained as follows, which will remain in effect for the period during which the real property or structures are used for a purpose for which Federal financial assistance is extended or for another purpose involving the provision of similar services or benefits and will be binding on the NCDOT, its successors and assigns.

The NCDOT, in consideration of the conveyance of said lands and interests in lands, does hereby covenant and agree as a covenant running with the land for itself, its successors and assigns, that (1) no person will on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination with regard to any facility located wholly or in part on, over, or under such lands hereby conveyed [,] [and]* (2) that the NCDOT will use the lands and interests in lands and interests in lands so conveyed, in compliance with all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations and Acts may be amended [, and (3) that in the event of breach of any of the abovementioned nondiscrimination conditions, the Department will have a right to enter or re-enter said lands and facilities on said land, and that above described land and facilities will thereon revert to and vest in and become the absolute property of the U.S. Department of Transportation and its assigns as such interest existed prior to this instruction].*

- (*Reverter clause and related language to be used only when it is determined that such a clause is necessary in order to make clear the purpose of Title VI.)
- (b) Clauses for Transfer of Real Property Acquired or Improved Under the Activity, Facility, or Program (1050.2A, Appendix C)
 - The following clauses will be included in deeds, licenses, leases, permits, or similar instruments entered into by the North Carolina Department of Transportation (NCDOT) pursuant to the provisions of Assurance 7(a):
 - 1. The (grantee, lessee, permittee, etc. as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree [in the case of deeds and leases add "as a covenant running with the land"] that:

- (i.) In the event facilities are constructed, maintained, or otherwise operated on the property described in this (deed, license, lease, permit, etc.) for a purpose for which a U.S. Department of Transportation activity, facility, or program is extended or for another purpose involving the provision of similar services or benefits, the (grantee, licensee, lessee, permittee, etc.) will maintain and operate such facilities and services in compliance with all requirements imposed by the Acts and Regulations (as may be amended) such that no person on the grounds of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
- 2. With respect to licenses, leases, permits, etc., in the event of breach of any of the above Nondiscrimination covenants, the NCDOT will have the right to terminate the (lease, license, permit, etc.) and to enter, re-enter, and repossess said lands and facilities thereon, and hold the same as if the (lease, license, permit, etc.) had never been made or issued. *
- 3. With respect to a deed, in the event of breach of any of the above Nondiscrimination covenants, the NCDOT will have the right to enter or re-enter the lands and facilities thereon, and the above described lands and facilities will there upon revert to and vest in and become the absolute property of the NCDOT and its assigns. *

(*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

- (c) Clauses for Construction/Use/Access to Real Property Acquired Under the Activity, Facility or Program (1050.2A, Appendix D)
 - The following clauses will be included in deeds, licenses, permits, or similar instruments/agreements entered into by the North Carolina Department of Transportation (NCDOT) pursuant to the provisions of Assurance 7(b):
 - 1. The (grantee, licensee, permittee, etc., as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree (in the case of deeds and leases add, "as a covenant running with the land") that (1) no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities, (2) that in the construction of any improvements on, over, or under such land, and the furnishing of services thereon, no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination, (3) that the (grantee, licensee, lessee, permittee, etc.) will use the premises in compliance with all other requirements imposed by or pursuant to the Acts and Regulations, as amended, set forth in this Assurance.
 - 2. With respect to (licenses, leases, permits, etc.), in the event of breach of any of the above Non¬ discrimination covenants, the NCDOT will have the right to terminate the (license, permit, etc., as appropriate) and to enter or re-enter and repossess said land and the facilities thereon, and hold the same as if said (license, permit, etc., as appropriate) had never been made or issued. *
 - 3. With respect to deeds, in the event of breach of any of the above Nondiscrimination covenants, the NCDOT will there upon revert to and vest in and become the absolute property of the NCDOT and its assigns. *

(*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

ON-THE-JOB TRAINING

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

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 of the journeyman wage for the third quarter of the training period 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.

LISTING OF MBE/WBE SUBCONTRACTORS

				Sheet	of
Firm Name and Address	Circle One	Item No.	Item Description	* Agreed upon Unit Price	** Dollar Volume of Item
Name	MBE				
Address	WBE				
Name	MBE				
Address	WBE				
Name	MBE				
Address	WBE				
Name	MBE				
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Name	MBE				
Address	WBE				
Name	MBE				
Address	WBE				

^{*} The Dollar Volume shown in this column shall be the Actual Price Agreed Upon by the Prime Contractor and the MBE/WBE subcontractor, and these prices will be used to determine the percentage of the MBE/WBE participation in the contract.

^{**} Dollar Volume of MBE/WBE Subcontractor Percentage of Total Contract Bid Price:

If firm is a Material Supplier Only, show Dollar Volume as 60% of Agreed Upon Amount from Letter of Intent.

If firm is a Manufacturer, show Dollar Volume as 100% of Agreed Upon Amount from Letter of Intent.

LISTING OF MBE/WBE SUBCONTRACTORS

				Sheet	of
Firm Name and Address	Circle One	Item No.	Item Description	* Agreed upon Unit Price	** Dollar Volume of Item
Name	MBE				
Address	WBE				
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			MBE Percentage of To	otal Contract Bio	d Price%

** Dollar Volume of WBE Subcontractor \$

WBE Percentage of Total Contract Bid Price ______%

^{*}The Dollar Volume shown in this column shall be the Actual Price Agreed Upon by the Prime Contractor and the MBE/WBE subcontractor, and these prices will be used to determine the percentage of the MBE/WBE participation in the contract.

^{**} Dollar Volume of MBE/WBE Subcontractor Percentage of Total Contract Bid Price.

If firm is a Material Supplier Only, show Dollar Volume as 60% of Agreed Upon Amount from Letter of Intent.

If firm is a Manufacturer, show Dollar Volume as 100% of Agreed Upon Amount from Letter of Intent.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, NC

CONTRACT PAYMENT BOND

Date of Payment Bond Execution	
Name of Principal Contractor	
Name of Surety:	
Name of Contracting Body:	
Amount of Bond:	
Contract ID No.:	DC00310
County Name:	Pender County

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.

Affix Seal of Surety Company		
		Print or type Surety Company Name
	Ву	
	Бу	Print, stamp or type name of Attorney-in-Fact
		Time, stamp of type name of recorney in ruce
		Signature of Attorney-in-Fact
		Signature of Fittorney in Fact
Signature of Witness	-	
Print or type Signer's name	=	
		Address of Attorney-in-Fact

CORPORATION

Full nam	e of Corporation	
Address	as prequalified	
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Ву		Signature of President, Vice President, Assistant Vice President
		Select appropriate title
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Attest	Signature of Secretary, Assistant Secr	atory
	Select appropriate title	ctary
	Print or type Signer's name	

LIMITED LIABILITY COMPANY

Name of Contractor	
	Full name of Firm
	Address as prequalified
D	
By:	Signature of Member, Manager, Authorized Agent
	Select appropriate title
	Print or type Signer's name

INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME

Name of Contractor	
	Individual Name
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Trading and doing business as	Full name of Firm
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Signature of Witness	
Signature of Witness	
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INDIVIDUAL DOING BUSINESS IN HIS OWN NAME

Name of Contractor		
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		individually
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PARTNERSHIP

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Signature of Witness	-	
Signature of Witness		
Print or type Signer's name	-	

CONTRACT PAYMENT BOND JOINT VENTURE (2) or (3)

SIGNATURE OF CONTRACTORS (Principal)

Instructions to Bidders: 2 Joint Ventures, Fill in lines (1), (2) and (3) and execute. 3 Joint Venturers Fill in lines (1), (2), (3), (4) and execute. On Line (1), print or type the name of Joint Venture. On line (2), print or type the name of one of the joint venturers and execute below in the appropriate manner required by Article 102-8 of the NCDOT Standard Specifications. On Line (3), print or type the name of second joint venturer and execute below in the appropriate manner required by said article of the Specifications. On Line (4), print or type the name of the third joint venturer, if applicable and execute below in the appropriate manner required by said article of the Specifications. This form of execution must be strictly followed.

Signature of Witness or Attest	Ву	Signature of Contractor	
Print or type Signer's name		Print or type Signer's name	
	and		
Signature of Witness or Attest	Ву	Signature of Contractor	
Print or type Signer's name		Print or type Signer's name	
	and		
Signature of Witness or Attest	Ву	Signature of Contractor	
Print or type Signer's name		Print or type Signer's name	

Attach certified copy of Power of Attorney to this sheet

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, NC

CONTRACT PERFORMANCE BOND

Date of Performance Bond Execution:	
Name of Principal Contractor:	
Name of Surety:	
Name of Contracting Body:	
Amount of Bond:	
Contract ID No.:	DC00310
County Name:	Pender County

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 PERFORMANCE BOND

Affix Seal of Surety Company		
		Print or type Surety Company Name
	Ву	Print, stamp or type name of Attorney-in-Fact
		Signature of Attorney-in-Fact
Signature of Witness	<u> </u>	
Print or type Signer's name		
		Address of Attorney-in-Fact

CONTRACT PERFORMANCE BOND

CORPORATION

Full nam	e of Corporation	
Address	as prequalified	
Ву		
Бу		Signature of President, Vice President, Assistant Vice President
		Select appropriate title
		Print or type Signer's name
Affix Corpo	orate Seal	
A		
Attest	Signature of Secretary, Assistant Secre	ntow.
	Select appropriate title	Ctal y
	Print or type Signer's name	

LIMITED LIABILITY COMPANY

Name of Contractor	
	Full name of Firm
	Address as prequalified
By:	
•	Signature of Member, Manager, Authorized Agent Select appropriate title
	Print or type Signer's name

INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME

Name of Contractor	
	Individual Name
Trading and doing business as	
	Full name of Firm
	Address as prequalified
	Address as prequaimed
Signature of Contractor	
Signature of Contractor	Individually
	Print or type Signer's name
	71 8
Signature of Witness	
Print or type Signer's name	

INDIVIDUAL DOING BUSINESS IN HIS OWN NAME

Name of Contractor		
	Print or type Individual name	
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	and the frequenties	
Signature of Contractor		
	Individually	
	Print or type Signer's name	
Signature of Witness		
Print or type Signer's name		

PARTNERSHIP

Full name of Partnership		
Address as prequalified		
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		Signature of Partner
		Print or type Signer's name
Signature of Witness	-	
Signature of witness		
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Print or type Signer's name		

CONTRACT PERFORMANCE BOND JOINT VENTURE (2) OR (3)

SIGNATURE OF CONTRACTORS (Principal)

Instructions to Bidders: 2 Joint Ventures, Fill in lines (1), (2) and (3) and execute. 3 Joint Venturers Fill in lines (1), (2), (3), (4) and execute. On Line (1), print or type the name of Joint Venture. On line (2), print or type the name of one of the joint venturers and execute below in the appropriate manner required by Article 102-8 of the NCDOT Standard Specifications. On Line (3), print or type the name of second joint venturer and execute below in the appropriate manner required by said article of the Specifications. On Line (4), print or type the name of the third joint venturer, if applicable and execute below in the appropriate manner required by said article of the Specifications. This form of execution must be strictly followed.

Signature of Witness or Attest	By	Signature of Contractor
Print or type Signer's name		Print or type Signer's name
	and	
Signature of Witness or Attest	Ву	Signature of Contractor
Print or type Signer's name		Print or type Signer's name
Finit of type signers name		Fillit of type Signer's name
	and	
Signature of Witness or Attest	— _{Ву}	Signature of Contractor
Print or type Signer's name		Print or type Signer's name

Attach certified copy of Power of Attorney to this sheet

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, NC

BID BOND

Contract Numb	er:	DC00310	County:	Pender County	
KNOW ALL M	EN BY THESE PRESENT	ΓS. That we. the P	RINCIPAL CONTRA	ACTOR (hereafter, PRINCIPAL))
and SURETY ab	ove named, are held and fin	rmly bound unto the	e Department of Tran	asportation in the full and just surve, for the payment of which sur	1
	be made, we bind ourselves			d successors, jointly and severally	
after the opening Transportation s written notice of performance of prosecution of taccordance with conditions and ol makes a final deevent a determin with the required provided in Articipal provided in Articipal performance of the provided in Articipal provided in Articipal performance of the per	g of the bids, or within such hall award a contract to the award is received by him, the contract and for the property of the work. In the event the the provisions of Article bligations of this Bid Bond termination to either allow lation is made to award the ments set forth above. In the 103-3, or after award of and to provide the required mediately paid to the Deparation and the provide the page 103-10 to 100 t	other time period a per Principal, the Principal, the Principal persecution of all persecution of all persecution of all persecution of the State shall remain in full the bid to be with a contract, the Principal the event the Principal the contract has been bonds within the trument of Transpor	as may be provided in incipal shall, within a good and sufficient sons supplying labor, its permission to with andard Specification, force and effect until drawn or to proceed with the provided with the shall have fourtipal withdraws its bit been made fails to executive period specified tation as liquidated drawn and shall have fourtipal withdraws its bit been made fails to executive period specified tation as liquidated drawn and shall have fourtipal withdraws its bit been made fails to executive period specified tation as liquidated drawn and sufficient shall be sufficient to the	draw its bid within sixty (60) days at the proposal, and if the Board of fourteen (14) calendar days after surety, as required for the faithfut, material, and equipment for the hadraw his bid due to mistake in a for Roads and Structures, the the Department of Transportation with award of the contract. In the een (14) calendar days to comply d after bids are opened except as cute such additional documents as above, then the amount of the bid amages.	f r l e n e v
	day of	•	aduped these presents	to be duly signed and season.	
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			General Agent o	or Attorney-in-Fact Signature	
	Seal of Surety			gi 1 N	
			Print or	type Signer's Name	

CORPORATION

	Full name of Corpo	ration
	Address as prequal	lified
	Ву	
		President, Vice President, Assistant Vice President
	5	Select appropriate title
	-	Print or type Signer's name
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	Select appropriate title	
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LIMITED LIABILITY COMPANY

Name of Contractor		
	Full name of Firm	
	Address as prequalified	
Signature of Member/ Manager/Authorized Agent		
· · · · · · · · · · · · · · · · · · ·	Individually	
	Print or type Signer's name	

INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME

Name of Contractor	
	Individual Name
Trading and doing business as	
	Full name of Firm
	Address as prequalified
Signature of Contractor	
	Individually
_	
	Print or type Signer's name
Signature of Witness	
Print or type Signer's name	e

INDIVIDUAL DOING BUSINESS IN HIS OWN NAME

Name of Contractor	
	Print or type Individual Name
	Address as prequalified
Signature of Contrac	tor
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PARTNERSHIP

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		Print or type Signer's name
Signature of Witness		
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Print or type Signer's name		

BID BOND JOINT VENTURE (2 or 3)

SIGNATURE OF CONTRACTORS (Principal)

Instructions to Bidders: **2 Joint Ventures**, Fill in lines (1), (2) and (3) and execute. **3 Joint Venturers** Fill in lines (1), (2), (3), (4) and execute. Line (1), print or type the name of Joint Venture. On line (2), print or type the name of one of the joint venturers and execute below in the appropriate manner required by Article 102-8 of the *Specifications*. On Line (3), print or type the name of second joint venturer and execute below in the appropriate manner required by said article of the Specifications. On Line (4), print or type the name of the third joint venturer, if applicable and execute below in the appropriate manner required by said article of the Specifications. This form of execution must be strictly followed.

Signature of Witness or Attest	Ву	Signature of Contractor
Print or type Signer's name	-	Print or type Signer's name
	and	
Signature of Witness or Attest	Ву	Signature of Contractor
Print or type Signer's name	-	Print or type Signer's name
	and	
Signature of Witness or Attest	Ву	Signature of Contractor
Print or type Signer's name		Print or type Signer's name

ADDENDUM(S)

ADDENDUM #1	
I,(SIGNATURE)	representing
Acknowledge receipt of Addendum #1.	
ADDENDUM #2	
I,(SIGNATURE)	representing
Acknowledge receipt of Addendum #2.	
ADDENDUM #3	
I,(SIGNATURE)	representing
Acknowledge receipt of Addendum #3.	

AWARD LIMITS ON MULTIPLE PROJECTS

It is the desire of the Proposer to be awarded control \$, for those projects indicated below
on which bids are being opened on the same date be indicated by placing the project number and co selected will not be subject to an award limit.	as shown in the Proposal Form. Individual projects shall unty in the appropriate place below. Projects not
(Project Number)	(County)
*If a Proposer desires to limit the total amount of limit in the space provided above in the second limit.	work awarded to him in this letting, he shall state such ae of this form.
of which is more that the above stipulated award l	successful bidder on indicated projects, the total value imits, the Board of Transportation will award me (us) a total value not exceeding the award limit and which tof Transportation.
	**Signature of Authorized Person
**Only those persons authorized to sign bids under	er the provisions of Article 102-8, Item 7, shall

be authorized to sign this form.

EXECUTION OF BID

NON-COLLUSION, DEBARMENT AND GIFT BAN CERTIFICATION

CORPORATION

The prequalified bidder being duly sworn, solemnly swears (or affirms) 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 any bid or contract, that the prequalified bidder has not been convicted of violating N.C.G.S. §133-24 within the last three years, and that the prequalified bidder intends to do the work with his own bona fide employees or subcontractors and will not bid for the benefit of another contractor.

By submitting this non-collusion, debarment and gift ban certification, the Contractor is attesting 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 PREQUALIFIED BIDDER

	Full name of	f Corporation	n
		110	
	Address as	Prequalifie	1
Attest		By	
	Secretary/Assistant Secretary (Select appropriate title)		President/Vice President/Assistant Vice President (Select appropriate title)
	Print or type Signer's name		Print or type Signer's name

CORPORATE SEAL

NON-COLLUSION AFFIDAVIT, DEBARMENT CERTIFICATION AND GIFT BAN CERTIFICATION PARTNERSHIP

The prequalified bidder, being duly sworn, solemnly swears (or affirms) 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 any bid or contract, that the prequalified bidder has not been convicted of violating $N.C.G.S. \ \S \ 133-24$ within the last three years, and that the prequalified bidder intends to do the work with its own bona fide employees or subcontractors and will not bid for the benefit of another contractor.

By submitting this non-collusion, debarment and gift ban certification, the Contractor is attesting 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 PREQUALIFIED BIDDER

	Full Name of Partnership
	Address as
	Prequalified
Signature of Witness	Signature of Partner
Č	
Print or Type Signer's Name	Print or Type Signer's Name

NON-COLLUSION AFFIDAVIT, DEBARMENT CERTIFICATION AND GIFT BAN CERTIFICATION

LIMITED LIABILITY COMPANY

The prequalified bidder, being duly sworn, solemnly swears (or affirms) 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 any bid or contract, that the prequalified bidder has not been convicted of violating $N.C.G.S. \ \S \ 133-24$ within the last three years, and that the prequalified bidder intends to do the work with its own bona fide employees or subcontractors and will not bid for the benefit of another contractor.

By submitting this non-collusion, debarment and gift ban certification, the Contractor is attesting 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 PREQUALIFIED BIDDER

Fi	ull Name of Firm
Add	dress as Prequalified
Signature of Witness	Signature of Member/Manager/Authorized Agent (Select appropriate Title)

NON-COLLUSION, DEBARMENT AND GIFT BAN CERTIFICATION

JOINT VENTURE (2) or (3)

The prequalified bidder, being duly sworn, solemnly swears (or affirms) 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 any bid or contract, that the prequalified bidder has not been convicted of violating N.C.G.S. § 133-24 within the last three years, and that the prequalified bidder intends to do the work with its own bona fide employees or subcontractors and will not bid for the benefit of another contractor.

By submitting this non-collusion, debarment and gift ban certification, the Contractor is attesting 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 PREQUALIFIED BIDDER

Instructions: **2 Joint Venturers** Fill in lines (1), (2) and (3) and execute. **3 Joint Venturers** Fill in lines (1), (2), (3) and (4) and execute. On Line (1), fill in the name of the Joint Venture Company. On Line (2), fill in the name of one of the joint venturers and execute below in the appropriate manner. On Line (3), print or type the name of the other joint venturer and execute below in the appropriate manner. On Line (4), fill in the name of the third joint venturer, if applicable and execute below in the appropriate manner.

	Name of Joint Venture	
	Name of Contractor	
A	ddress as Prequalified	
	BY	
Signature of Witness or Attest		Signature of Contractor
Print or Type Signer's Name		Print or Type Signer's Name
If Corporation, affix Corporate Seal	AND	
	Name of Contractor	
A	ddress as Prequalified	
	BY	
Signature of Witness or Attest		Signature of Contractor
Print or Type Signer's Name		Print or Type Signer's Name
If Corporation, affix Corporate Seal	AND	
	Name of Contractor	
A	ddress as Prequalified	
	BY	
Signature of Witness or Attest		Signature of Contractor
Print or Type Signer's Name		Print or Type Signer's Name
If Corporation, affix Corporate Seal		

NON-COLLUSION AFFIDAVIT, DEBARMENT CERTIFICATION AND GIFT BAN CERTIFICATION

INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME

The prequalified bidder, being duly sworn, solemnly swears (or affirms) 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 any bid or contract, that the prequalified bidder has not been convicted of violating $N.C.G.S. \ \S \ 133-24$ within the last three years, and that the prequalified bidder intends to do the work with its own bona fide employees or subcontractors and will not bid for the benefit of another contractor.

By submitting this non-collusion, debarment and gift ban certification, the Contractor is attesting 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 PREQUALIFIED BIDDER

Name of Prequalified Bidder	Individual Name
Trading and Doing Business As	Full name of Firm
Addr	ress as Prequalified
Signature of Witness	Signature of Prequalified Bidder, Individual
Print or Type Signer's Name	Print or Type Signer's Name

NON-COLLUSION AFFIDAVIT, DEBARMENT CERTIFICATION AND GIFT BAN CERTIFICATION

INDIVIDUAL DOING BUSINESS IN HIS OWN NAME

The prequalified bidder, being duly sworn, solemnly swears (or affirms) 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 any bid or contract, that the prequalified bidder has not been convicted of violating $N.C.G.S. \ \S \ 133-24$ within the last three years, and that the prequalified bidder intends to do the work with its own bona fide employees or subcontractors and will not bid for the benefit of another contractor.

By submitting this non-collusion, debarment and gift ban certification, the Contractor is attesting 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 PREQUALIFIED BIDDER

Name of Prequalified Bidder	
1	Print or Type Name
	ldress as Prequalified
7.0	aress as Frequamea
	Signature of Prequalified Bidder, Individually
	Print or type Signer's Name
Signature of Witness	
Print or type Signer's name	

DEBARMENT CERTIFICATION OF PREQUALIFIED BIDDER

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 that is file 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 affidavit 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.
<u> </u>
Continuation.

ITEMIZED PROPOSAL FOR CONTRACT NO. DC00310

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amoun
		F	COADWAY ITEMS			
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	4447000000-E	SP	PEDESTRIAN CHANNELIZING DE- VICES	48		
				LF 		
0003	4457000000-N	SP	TEMPORARY TRAFFIC CONTROL	Lump Sum	L.S.	
0004	4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM AUDIBLE WARNINGS	2		
				EA 		
0005	4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM TEMPORARY CURB RAMPS	1 EA		
	5145000000-N	1/08	LIGHT CONTROL EQUIPMENT, TYPE	 1		
0000	3143000000-IN	1400	RW ************************************	EA		
			FLECTRICAL DUCT TVDF IA CIZE			
0007	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** 3"	70 LF		
8000	5210000000-E	1410	** #6 W/G FEEDER CIRCUIT IN ******* CONDUIT 4,2	645 LF		
0009	5215000000-E	1410	** #4 W/G FEEDER CIRCUIT IN ******* CONDUIT 4,2	2,480 LF		
0010	5220000000-E	1410	** #2 W/G FEEDER CIRCUIT IN ******* CONDUIT	1,745 LF		
			4,2			
0011	5240000000-N	1411	ELECTRICAL JUNCTION BOXES	1 EA		
			CS36			
0012	5240000000-N	1411	ELECTRICAL JUNCTION BOXES	4 EA		
			IG18	LA		
0013	5240000000-N	1411	ELECTRICAL JUNCTION BOXES	25		
			LS18	EA		
0014	5270000000-N	SP	GENERIC LIGHTING ITEM	50		
			DOWNLIGHT LUMINAIRE, LED	EA 		
0015	5270000000-N	SP	GENERIC LIGHTING ITEM FLAGPOLE LIGHT	2 EA		
0015	5270000000-N	SP		2 EA		

ITEMIZED PROPOSAL FOR CONTRACT NO. DC00310

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0016	5270000000-N	SP	GENERIC LIGHTING ITEM LIGHT STANDARD W/ BISHOPS CROO K TWIN ARM TYPE AB, 16' MH	25 EA		
 0017	5270000000-N	SP	GENERIC LIGHTING ITEM R1S1 FOUNDATION	2 EA		
 0018	6390000000-N	1670	ILEX VOMITORIA, YAUPON HOLLY, 12-15"	38 EA		
 0019	6400000000-N	1670	ITEA VIRGINICA, VIRGINIA SWEETSPIRE, 15-18"	13 EA		
 0020	6410000000-N	1670	JUNIPERUS VIRGINIANA, EASTERN RED CEDAR, 7-8'	14 EA		
 0021	6490000000-N	1670	MYRICA CERIFERA, WAX MYRTLE, 15-18"	25 EA		
0022	6640000000-N	1670	GENERIC PLANTING ITEM ADAM'S NEEDLE, 15-18" YUCCA FILAMENTOSA	12 EA		
0023	6640000000-N	1670	GENERIC PLANTING ITEM BLACK EYED SUSAN, 6-9" TOP GRO WTH RUDBECKIA FULGIDA GOLDSTURM	295 EA		
 0024	6640000000-N	 1670	GENERIC PLANTING ITEM CONEFLOWER 6-9" TOP GROWTH ECHINACEA POWWOW WILDBERRY	42 EA		
 0025	6640000000-N	1670	GENERIC PLANTING ITEM DARLINGTON OAK, 8-10', 3-4 STE M QUERCUS HEMISPHAERICA	44 EA		
 0026	6640000000-N	1670	GENERIC PLANTING ITEM DWARF SABAL PALM, 2-3' SABAL MINOR	12 EA		
 0027	6640000000-N	1670	GENERIC PLANTING ITEM PINK MUHLY GRASS, 9-12" TOP GR OWTH MUHLENBERGIA CAPILLARIS	16 EA		
 0028	6640000000-N	1670	GENERIC PLANTING ITEM PRAIRIE DROPSEED, 9-12" TOP GR OWTH SPOROBOLUS HETEROLEPIS	215 EA		

ITEMIZED PROPOSAL FOR CONTRACT NO. DC00310

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0029	6640000000-N	1670	GENERIC PLANTING ITEM RUBY SPICE, 24-30" CLETHRA ALNIFOLIA	48 EA		
0030	6640000000-N	1670	GENERIC PLANTING ITEM SAND CORDGRASS, 9-12" TOP GROW TH SPANTINA BAKERI	32 EA		
0031	6645000000-N	SP	GENERIC PLANTING ITEM 35' NAUTICAL FLAGPOLE	1 EA		
0032	6645000000-N	SP	GENERIC PLANTING ITEM 48" CONCRETE PLANTER	9 EA		
0033	6645000000-N	SP	GENERIC PLANTING ITEM 6' GABION BENCH	18 EA		
0034	6645000000-N	SP	GENERIC PLANTING ITEM 6' RECYCLED PLASTIC PARK BENCH	4 EA		
0035	6645000000-N	SP	GENERIC PLANTING ITEM DUAL WASTE RECEPTACLE	6 EA		
0036	6645000000-N	SP	GENERIC PLANTING ITEM HORSESHOE BIKE RACK	6 EA		
0037	6645000000-N	SP	GENERIC PLANTING ITEM MONTHLY MAINTENANCE	16 EA		
0038	6650000000-E	1670	MULCH FOR PLANTING	184 CY		
0039	6655000000-E	1670	WATER FOR PLANTING	10 M/G		
0040	6665000000-E	1670	POSTEMERGENT HERBICIDAL TREAT- MENT FOR PLANT BEDS	1,660 SY		
0041	6670000000-Е	1670	PREEMERGENT HERBICIDAL TREAT- MENT FOR PLANT BEDS	1,660 SY		
0042	6674000000-N	SP	GENERIC PLANTING ITEM (LS) IRRIGATION	Lump Sum	L.S.	
0043	6676000000-E	SP	GENERIC PLANTING ITEM TEXTURED CONCRETE	1,150 SF		
0044	6680000000-E	SP	GENERIC PLANTING ITEM RIVER ROCK	6 CY		

Aug 04, 2021 7:41 am

ITEMIZED PROPOSAL FOR CONTRACT NO. DC00310

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0045	6900000000-Е	SP	TOPSOIL	230		
				CY		
0741/Aug04/Q10870.0/D266389100000/E45				Total Amount Of Bid For Entire Project :		