



**ROCKY MOUNT**  
PUBLIC WORKS  
THE CENTER OF IT ALL

**Engineering**

**Request for Proposal #: 320-010922RP Re-Bid**

**FY23 Road Resurfacing Project**

**Date of Issue: 9/29/2022**

**Proposal Due Date: 10/10/2022**

**At 10:00 A.M. ET**

**Direct all inquiries concerning this RFP to:**

Ramona L. Plemmer  
Purchasing Manager

[ramona.plemmer@rockymountnc.gov](mailto:ramona.plemmer@rockymountnc.gov)  
252-972-1228

Brad Kerr  
Director of Public Works  
[brad.kerr@rockymountnc.gov](mailto:brad.kerr@rockymountnc.gov)  
252-972-1120

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**CITY OF ROCKY MOUNT  
STANDARD FORM OF FORMAL CONTRACT  
AND GENERAL CONDITIONS**

**I. ADVERTISEMENT FOR BIDS**

Per NCGS 143-129 sealed bids for FY 23 Road Resurfacing, CRM BID NUMBER 320-010922RP Re-Bid, will be received from contractors by the City of Rocky Mount, Purchasing Office (hereinafter call the "City") in the First Floor Atrium of the Frederick E. Turnage Administrative Services Complex, 331 South Franklin Street, Rocky Mount, North Carolina 27804 until **Monday 10/10/2022 10:00 a.m.** at which time and place all bids received will be publicly opened and read aloud.

Proposals must be enclosed in a sealed envelope addressed to Ramona Plemmer, Purchasing Manager, City of Rocky Mount. The project name and bid number as well as the name, address and license number of the Bidder must be plainly marked on the outside of the envelope.

The City of Rocky Mount is seeking 10% minority business participation on this project.

The City reserves the right to reject any and all bids and to waive any informality. The City will not discriminate against any bidder submitting a bid because of race, creed, color, national origin or handicap.

The project includes the following major items:

Approximately 24 Lane Miles Street resurfacing including approximately 1.6 centerline miles of Full Depth Reclamation (FDR). Scope of work includes but is not limited to full depth reclamation of roadbeds; patching of failed pavement; installation of bituminous concrete overlays; replacement of existing concrete curb/gutter, sidewalk, driveways and handicap ramps; horizontal adjustment of utility manholes and valve boxes; installation of temporarily and permanent pavement markings. Project is located at various locations throughout the City of Rocky Mount, NC.

Complete Bidding Documents may be obtained at the City of Rocky Mount Purchasing web site located at <http://www.rockymountnc.gov/services-finance-bids/>

Bidders must conform to the provisions of the North Carolina Contractor's Licensing Act of 1925, as amended.

A Bid Security in the amount of five percent (5%) of the Bid must accompany each Bid a \$500,000.00 or more. A 100% Performance Bond and 100% Payment Bond will be required from the successful bidder or any bids \$300,000.00 or more. Bids for this project shall be guaranteed by all bidders for a period of 60 calendar days following the bid opening. See Attachment D for more information regarding bonding requirements.

Ramona L. Plemmer, Purchasing Manager  
City of Rocky Mount  
PO Box 1180  
331 S. Franklin Street  
Rocky Mount, NC 27802-1180

## II. 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 shall cause the bid to be considered irregular and shall be grounds for rejection of the bid.**

- A. The bid forms furnished by City of Rocky Mount Purchasing Division with the proposal shall be used and shall not be altered in any manner.
- B. All entries on the bid form, including signatures, shall be written in ink.
- C. The Bidder shall submit a unit price for every item on the bid form. The unit prices for the various contract items shall be written in figures. \*\*\*Unit prices must be limited to TWO decimal places.\*\*\*
- D. An amount bid shall be entered on the bid form for every item. The amount bid for each item shall be determined by multiplying each unit bid by the quantity for that item and shall be written in figures in the "Amount Bid" column of the form.
- E. The total amount bid shall be written in figures in the proper place on the bid form. The total amount shall be determined by adding the amounts bid for each item.
- F. Changes in any entry shall be made by marking through the entry in ink and making the correct entry adjacent thereto in ink. A representative of the Bidder shall initial the change in ink. Do not use White Out or similar product to make corrections.
- G. The bid shall be properly executed. All bids shall show the following information:
  - a. Name of individual, firm, corporation, partnership, or joint venture submitting bid.
  - b. Name of individual or representative submitting bid and position or title.
  - c. Name, signature, and position or title of witness.
  - d. Federal Identification Number
  - e. Contractor's License Number
  - f. Bids submitted by corporations shall bear the seal of the corporation.
  - g. The bid shall not contain any unauthorized additions, deletions, or conditional bids.
  - h. The bidder shall not add any provision reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
- H. **THE PROPOSAL WITH THE BID FORM STILL ATTACHED SHALL BE PLACED IN A SEALED ENVELOPE AND SHALL HAVE BEEN DELIVERED TO AND RECEIVED IN THE PURCHASING OFFICE –ATTN: RAMONA PLEMMER, CITY OF ROCKY MOUNT – PURCHASING DIVISION, 331 S. FRANKLIN STREET, ROCKY MOUNT, NORTH CAROLINA, BY 10:00 AM on October 10, 2022.**
- I. The sealed bid must display the following statement on the front of the sealed envelope:  
PROPOSAL FOR: RFP 320-010922RP Re-Bid FY 23 ROAD RESURFACING

### AWARDING CONTRACT

"The North Carolina Department of Transportation, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the Regulations of the Department of Transportation (49 C.F.R., Part 21), issued pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the ground of race, color, or national origin".

Award will be made to the lowest responsible and responsive Bidder for each Contract as soon as practicable, provided that in the selection of equipment or materials, a Contract may be awarded to a responsible Bidder other than the lowest in the interest of standardization or if ultimate economy is clearly evident.

### SUBMISSIONS OF BIDS

All spaces for lump sum and unit prices in the Bid Form shall be filled in with a number. Spaces left blank will be evaluated as zero (\$0.00).

Discrepancies between the multiplication of units of Work and Unit Prices will be resolved in favor of the Unit Prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.

The award of the Contract, if it is awarded, will be to the lowest responsive, responsible bidder on the base bid whose qualifications indicate the award will be in the best interest of the City of Rocky Mount. The City of Rocky Mount reserves the right to waive technicalities and/or reject any or all bids.

The Owner will not consider any bid or award of Contract to any person, firm, or corporation who has defaulted in any obligation to the Owner or who, in the opinion of the Owner, failed to perform their work satisfactorily, either as to character or time.

A conditioned or qualified bid will not be accepted.

Requirements for the submittal information will vary based on the complexity and importance of the product to the project as a whole. Submittals should be prepared in a concise and straightforward manner. Submittals shall clearly identify variances from the specifications. Products that clearly do not meet the requirements of the specifications and plans should not be submitted. Unless noted, products shall be the manufacturer's standard offering, with standard options.

Incomplete submittals, or submittals received after the deadline, shall not be considered.

The Owner and Engineer shall review all submitted questions and issue an Addendum to all document holders no later than 10/5/2022 unless extended by bid addenda. The Project Manager and Engineer for this project is Brad Kerr, Public Works Director, City of Rocky Mount. All requests for interpretations related to this RFP must be submitted in writing to both the Purchasing Manager and Public Works Director by 12:00 noon 10/3/2022. All responses to timely submitted requests for interpretations will be published in the form of an addendum and emailed to the requestors no later than 10/5/2022.

Pre-approval of materials or equipment does not, in any manner, preclude the manufacturer from meeting the full requirements of the specifications, including any performance guarantees required, unless specific exceptions are noted in the pre-approval.

No Post-Bid substitutions shall be permitted except as herein provided.

A Performance Bond and a Payment Bond, each in the amount of one hundred percent (100%) of the contract price, with a corporate surety approved by the City of Rocky Mount, will be required for the faithful performance of the contract. Bidders shall provide certification that performance and payment bond sureties are licensed in North Carolina. Applies to bids \$300,000.00 or more.

Minority Business participation must be documented and submitted with bids, please see contract documents for further direction.

**III. NCDOT STANDARD NOTES**

- A. NCDOT Standard Specifications – The 2012 North Carolina Department of Transportation Standard Specifications for Roads and Structures, herein referred to as the ‘Standard Specifications’, and the 2012 Roadway Standard Drawings, shall apply to all portions of this project except as may be modified by this document.
- B. Bidder Prequalification - Bidders are required to be prequalified with NCDOT for their specific discipline. Contractors wishing to become prequalified may obtain information through the NCDOT website at: <https://connect.ncdot.gov/business/Pages/default.aspx>
- C. Disadvantaged Business Enterprise References - Since this is a Federal-aid project with DBE participation, only those requirements and goals set forth by NCDOT Goal Setting Committee are applicable. References to any other requirements or to N.C. General Statute 143-128.2 shall not apply to this project. Refer to Special Provision SP1 G63.
- D. Award of Contract - The contract will be awarded to the lowest responsible, responsive bidder. Alternate items will not be considered in determining the low bidder and will only be evaluated after the award of the contract is made.
- E. Contractor Licensing – On all Federal-aid contracts, non-licensed contractors are permitted to submit bids, however they must be licensed prior to performing any work. Bidders are permitted 60 days, after bid opening, to become licensed by the North Carolina Licensing Board. If they fail to do so within 60 days, their bid will be considered non-responsive and will be rejected. 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).
- F. Bonds - Please note that all Bid Bonds, Payment Bonds, and Performance Bonds required for this project, shall be those found on the NCDOT website. The bonds are located at:  
Bid Bonds (M-5):  
  
<https://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/04%20Bid%20Bonds.doc>  
  
Payment Bonds (M-6):  
<https://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/05%20Payment%20Bonds.doc>  
  
Performance Bonds (M-7):  
<https://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/06%20Performance%20Bonds.doc>
- G. Liability Insurance – In addition to any insurance requirements as may be required by the LGA, the Contractor is obligated to comply with Article 107-15 of the Standard Specifications including the dollar limits set forth.
- H. Proprietary Items - When a proprietary (brand name) product, whether material, equipment or procedure, are specified in the plans or specifications, they are used only to denote the style, type, character, and quality desired of the product. They do not restrict the bidder from proposing other brands, makes, or manufacturers, which are determined to be of equal quality. The approval, or disapproval of those products, will be made by the Engineer prior to allowing those product(s) or material(s) to be incorporated into the work.

- I. Retainage by LGAs - The LGA for this contract will not retain any amount or percentage from progress payments or final estimates due the contractor.

Retainage by Contractors - Contractors are NOT permitted to retain any amount or percentage from monies due their subcontractors or material suppliers on federally funded projects except as permitted by Sub article 109-4(B) of the Standard Specifications.

- J. Traffic Control - The requirements of the Manual on Uniform Traffic Control Devices (MUTCD) â€“ FHWA, as amended by the NCDOT Supplement to MUTCD, shall apply. Traffic Control, both vehicular and pedestrian, shall be maintained throughout the project as required by these specifications as modified by the project plans or special provisions.

#### IV. GENERAL SPECIFICATIONS

Street resurfacing; Full Depth Reclamation (FDR); patching; replacement of existing concrete curb/gutter, sidewalk, driveways and handicap ramps; horizontal adjustment of utility manholes and valve boxes; installation of temporarily and permanent pavement markings.

#### V. SPECIFICATIONS/SCOPE OF WORK

The City of Rocky Mount has need for the services of a Licensed Contractor to perform approximately 24 Lane Miles street resurfacing including approximately 1.6 centerline miles of Full Depth Reclamation (FDR). Scope of work includes but is not limited to full depth reclamation of roadbeds; patching of failed pavement; installation of bituminous concrete overlays; replacement of existing concrete curb/gutter, sidewalk, driveways and handicap ramps; horizontal adjustment of utility manholes and valve boxes; installation of temporarily and permanent pavement markings. Project is located at various locations throughout the City of Rocky Mount, NC.

#### VI. THE WORK:

The contractor shall furnish all necessary equipment, labor, and material and permits required to complete the work including but not limited to:

- a. Resurfacing of approximately 24 lane miles of city streets and associated patching, manhole adjustments and valve box adjustments. Includes 1.6 miles of Full Depth Reclamation (FDR).
- b. Installation of approximately 62 sidewalk access ramps and 1,600 square yards of concrete sidewalk repair.
- c. Approximately 68,000 square yards of asphalt milling.
- d. Furnishing and placement of thermoplastic pavement markings.
- e. Furnishing and installation of inductive detection signal loops (by Owner)

#### VII. PROJECT SCHEDULE

Event	Responsibility	Date and Time
Submit Written Questions	Contractor	Monday 10/3/2022 12:00 noon
Provide Response to Questions/Addendum Deadline	City	Wednesday 10/5/2022
Submit Proposals	Contractor	Monday 10/10/2022 10:00 a.m.
Contract Award/Council Meeting	City	TBD
Estimated Completion Date	Contractor	150 Days

**VIII. QUESTIONS**

Written questions shall be e-mailed to Ramona.plemmer@rockymountnc.gov by the date and time specified above. Contractors will enter "RFP #320-010922RP Re-bid – Questions" as the subject for the email.

Questions received prior to the submission deadline date, the Purchasing Managers response, and any additional terms deemed necessary by the City of Rocky Mount will be posted in the form of an addendum to the Interactive Purchasing System (IPS), <http://www.ips.state.nc.us>, and the City of Rocky Mount website and shall become an Addendum to this RFP. No information, instruction or advice provided orally or informally by any City personnel, whether made in response to a question or otherwise concerning this RFP, shall be considered authoritative or binding. Vendors shall rely only on written material contained in an Addendum to this RFP.

Inquiries submitted no later than the date and time noted in the project schedule. Questions answered verbally will be followed up by written addenda as deemed necessary; oral interpretations shall have no effect.

**IX. PROPOSAL SUBMITTAL**

Contractors interested in performing the services requested must submit the following information:

1. One (1) copy of their RFP response including name, address, and phone number of contact person. RFP responses shall be addressed to:

Attn: RFP #320-010922RP Re-Bid  
City of Rocky Mount  
Purchasing- Ramona Plemmer  
331 S. Franklin Street  
Rocky Mount, NC 27804

All RFP responses shall be received by the date and time noted in the schedule on page 7. RFP responses may be sent via US Mail, FedEx, UPS, or hand delivered. **Faxed or emailed RFP responses will not be accepted.**

**X. REFERENCES**

Vendors shall provide at least three (3) different references for which your company has provided Services of similar size and scope to that proposed herein. The city of Rocky Mount may contact these users to determine the Services provided are substantially similar in scope to those proposed herein and Contractor's performance has been satisfactory. The information obtained shall be considered in the evaluation of the quote. If city of Rocky Mount references are provided it cannot be counted towards your three (3) required references but may be included in addition to.

COMPANY NAME	CONTACT NAME	TELEPHONE NUMBER	EMAIL



Optional: City of Rocky Mount			
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**ATTACHMENT A: PROPOSAL/ACCEPTANCE FORM**

For

**City of Rocky Mount FY 23 Road Resurfacing**

Item No.	CI	Spec. Section	Description	Bid Quantity	Unit	Unit Price	Bid Value
<b>Division 01-Resurfacing</b>							
1.01		800	Mobilization	1	LS		
1.02		250	Removal of Existing Concrete, C&G/VG	6675	LF		
1.03	CI	225	Undercut Excavation and Backfill (CI)	100	CY		
1.04		230	Borrow	100	CY		
1.05	CI	270	Geotextile Soil Stabilization (CI)	0	SY		
1.06		520	Aggregate Base Course	0	TN		
1.07		540.SP	Full Depth Reclamation of Asphalt Pavement	23162	SY		
1.08		540.SP	Cement for Cement Modified FDR	260	TN		
1.09		540	Remove Excess FDR Material	2115	CY		
1.10	CI	540	Unclassified Excavation (CI)	100	CY		
1.11	CI	545	Incidental Stone Base (CI)	100	TN		
1.12		053000	Shoulder Reconstruction	2.5	Sh Mi		
1.13		607	Milling Asphalt Pavement 0" to 2.5"	67907	SY		
1.14		607	Incidental Milling	1400	SY		
1.15		610	Asph. Concrete Surface Course, Type S 4.75A (CI)	500	TN		
1.16		610	Asph. Concrete Surface Course, Type SF 9.5A	11334	TN		

Item No.	CI	Spec. Section	Description	Bid Quantity	Unit	Unit Price	Bid Value
1.17		610	Asph. Concrete Surface Course, Type SF 9.5A (Leveling Course)	500	TN		
1.18		610	Asph. Concrete Surface Course, Type S 9.5B	2781	TN		
1.19	CI	610	Asph. Conc. Intermediate Course, Type I 19.0B (CI)	500	TN		
1.20	CI	610	Asph. Conc. Base Course, Type B 25.0B (CI)"	500	TN		
1.21		620	Asphalt Binder for Plant Mix, Grade PG 64-22	926	TN		
1.22		654.SP	Patching Existing Pavement	5976	TN		
1.23	CI	815.SP	6" Perforated Subdrain w/ stone and fabric (CI)	200	LF		
1.24		846	2' 6" Concrete Curb and Gutter	4805	LF		
1.25		846	Concrete Valley Gutter	980	LF		
1.26		858	Adjustment of Meter Boxes or Valves	76	EA		
1.27		858	Adjustment of Manholes	97	EA		
1.28		858.SP	Adjustment of Meter Boxes or Valves: Quick Set	76	EA		
1.29		858.SP	Adjustment of Manholes: Quick Set	76	EA		
1.30		1631	Seeding and Mulching	1.5	AC		
			<b>Total for Division 01</b>				
			<b>Division 02-Sidewalk</b>				
2.01		250	Removal of Existing Concrete Pavement (Sidewalk, Driveways)	2072	SY		
2.02		848	Concrete Wheelchair Ramps	62	EA		

Item No.	CI	Spec. Section	Description	Bid Quantity	Unit	Unit Price	Bid Value
2.03		848	4" Concrete Sidewalk	1675	SY		
2.04		848	6" Concrete Driveways	25	SY		
			<b>Total for Division 02</b>				
			<b>Division 03-Pavement Marking</b>				
3.01		1205	THERMOPLASTIC PVT MKGLINES (4", 90 MILS)	4925	LF		
3.02		1205	THERMOPLASTIC PVT MKGLINES (4", 120 MILS)	31200	LF		
3.03		1205	THERMOPLASTIC PVT MKGLINES (8", 120 MILS)	1090	LF		
3.04		1205	THERMOPLASTIC PVT MKGLINES (16", 120 MILS)	60	LF		
3.05		1205	THERMOPLASTIC PVT MKGLINES (24", 120 MILS)	548	LF		
3.06		1205	THERMOPLASTIC PVT MKG CHARACTER (120 MILS)	14	EA		
3.07		1205	THERMOPLASTIC PVT MKG SYMBOL (90 MILS)	30	EA		
3.08		1205	PAINT PVMT MARKINGS 4"	31200	LF		
3.09		1205	PAINT PVMT MARKINGS 8"	1090	LF		
3.10		1205	PAINT PVT MKGS LINES 16"	60	LF		
3.11		1205	PAINT PVT MKG LINES 24"	548	LF		
3.12		1205	PAINT PVT MKG CHARACTER	14	EA		
3.13		1205	PAINT PVT MKG SYMBOL	30	EA		
			<b>Total for Division 03</b>				
			<b>Total for Contract</b>				

**BASIS OF AWARD/ADD ALTERNATES/DEDUCTS**

1. Provide prices for the afore-noted bid alternates/deducts. Owner reserves the right to add/deduct to contract at their discretion. Unit prices to include all labor, material, and equipment cost unless otherwise noted.

2. Where unit prices are requested, Contractor to be paid for actual installed quantities verified by the Engineer. Contractor shall provide supporting documentation and load tickets as required by the project specifications. Failure to obtain authorization from the Engineer for placement of any of the unit priced items beyond the previously authorized scope of work or failure to provide requires supporting documentation and quantity verification of material and/or quantities by the Engineer will null and void any claims by the Contractor for compensation for these items.
3. **Award Determination:** The award of a contract will be made to the lowest responsible bidder meeting the requirements of the Contract Documents. However, when it comes to evaluation of the proposal based on cost alone, the determination of the lowest bidder will be based solely on:
- a. The GRAND TOTAL OF THE BASE BID (items 1.01 through 3.13) of ATTACHMENT A: Proposal/Acceptance Form (PAGES 10-12), without adjustments or from unsolicited bid qualifiers – no exceptions.

NAME OF BIDDER \_\_\_\_\_

Bidder acknowledges that estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

The undersigned, as bidder, proposes and agrees if this proposal is accepted to contract with the City of Rocky Mount for the furnishing of all materials, equipment, and labor necessary to complete the construction of the work described in these documents in full and complete in accordance with plans, specifications, and contract documents, and to the full and entire satisfaction of the City of Rocky Mount for the sum of:

**TOTAL BASE PROPOSAL:** \_\_\_\_\_ **Dollars \$** \_\_\_\_\_  
(items 1.01 through 3.13 of ATTACHMENT A: Proposal/Acceptance Form [PAGES 10-12]),

Respectively submitted this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_

\_\_\_\_\_  
(Contractor's Name)

Federal ID#: \_\_\_\_\_

By: \_\_\_\_\_

Witness: \_\_\_\_\_

Title: \_\_\_\_\_

(Owner, partner, corp. Pres. Or Vice President)

Address: \_\_\_\_\_

\_\_\_\_\_  
(Proprietorship or Partnership)

Attest: (corporation)

Email Address: \_\_\_\_\_

(Corporate Seal)

By: \_\_\_\_\_ License #: \_\_\_\_\_

Title: \_\_\_\_\_  
(Corporation, Secretary. /Ass't Secretary.)

**ATTACHMENT B: ACCEPTED by the City of Rocky Mount**

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For

**City of Rocky Mount FY23 Road Resurfacing**

320-010922RP Re-bid

**City of Rocky Mount**

Total amount of accepted by the owner, included base proposal (items 1.01 through 3.13) for the FY23 Road Resurfacing (PAGES 10-12):

\$ \_\_\_\_\_

BY: \_\_\_\_\_ Title: \_\_\_\_\_

Date: \_\_\_\_\_

**PRE-AUDIT**

This instrument has been preaudited in the manner required by the Budget and Fiscal Control Act.

\_\_\_\_\_  
Finance Director

\_\_\_\_\_  
Date

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**ATTACHMENT C: GENERAL CONDITIONS**

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**1. GENERAL**

It is understood and agreed that by submitting a proposal that the Contractor has examined these contract documents, drawings and specifications and has visited the site of the Work and has satisfied himself relative to the Work to be performed.

**2. DEFINITIONS**

**Owner:** "Owner" shall mean, The City of Rocky Mount

**Contractor:** "Contractor" shall mean the entity that will provide the services for the Owner.

**Designer:** The **designer(s)** are those referred to within this contract, or their authorized representatives. The Designer(s), as referred to herein, shall mean architect and/or engineer responsible for preparing the project plans and specifications. They will be referred to hereinafter as if each were of the singular number, masculine gender.

**Contract Documents:** "Contract Documents" shall consist of the Notice to Bidders; General Conditions of the Contract; special conditions if applicable; Supplementary General Conditions; the drawing and specifications, including all bulletins, addenda or other modifications of the drawings and specifications incorporated into the documents prior to their execution; the proposal; the contract; the performance bond if applicable; and insurance certificates. All of these items together form the contract.

**INTENT AND EXECUTION OF DOCUMENTS**

The drawings and specifications are complementary, one to the other. That which is shown on the drawings or called for in the specifications shall be as binding as if it were both called for and shown. The intent of the drawings and specifications is to establish the scope of all labor, materials, transportation, equipment, and any and all other things necessary to provide a complete job. In case of discrepancy or disagreement in the Contract Documents, the order of precedence shall be: Form of Contract, specifications, large-scale detail drawings, small-scale drawings.

In such cases where the nature of the work requires clarification by the Designer/ Owner, the Designer/ Owner shall furnish such clarification. Clarifications and drawings shall be consistent with the intent of the Contract Documents and shall become a part thereof.

**4. AS-BUILT MARKED-UP CONSTRUCTION DOCUMENTS**

Contractor shall provide one complete set of legible "as-built" marked-up construction drawings and specifications recording any and all changes made to the original design during the course of construction. In the event no changes occurred, submit construction drawings and specifications set with notation "No Changes." The Designer/Owner must receive "As-built" marked-up construction drawings and specifications before the final pay request can be processed.

**5. SUBMITTAL DATA**

The Contractor awarded the contract shall submit all specified submittals to the Owner/Designer. A minimum number of copies as specified by the owner, of all required submittal data pertaining to construction, performance and general dimensional criteria of the components listed in the technical specifications shall be submitted. No material or equipment shall be ordered or installed prior to written approval of the submittals by the



Designer/Owner. Failure to provide submittal data for review on equipment listed in the technical specifications will result in removal of equipment by the Contractor at his expense if the equipment is not in compliance with the specifications.

## **6. SUBSTITUTIONS**

In accordance with the provisions of G.S. 133-3, material, product, or equipment substitutions proposed by the bidders to those specified herein can only be considered during the bidding phase until five (5) days prior to the receipt of proposals or by the date specified in the pre proposal conference, when submitted to the Designer with sufficient data to confirm material, product, or equipment equality. Proposed substitutions submitted after this time will be considered only as potential change order.

Submittals for proposed substitutions shall include the following information:

- a. Name, address, and telephone number of manufacturer and supplier as appropriate.
- b. Trade name, model or catalog designation.
- c. Product data including performance and test data, reference standards, and technical descriptions of material, product, or equipment. Include color samples and samples of available finishes as appropriate.
- d. Detailed comparison with specified products including performance capabilities, warranties, and test results.
- e. Other pertinent data including data requested by the Designer to confirm product equality.

If a proposed material, product, or equipment substitution is deemed equal by the Designer to those specified, all bidders of record will be notified by Addendum.

## **7. WORKING DRAWINGS AND SPECIFICATIONS AT THE JOB SITE**

The contractor shall maintain, in readable condition at his job site one complete set of working drawings and specifications for his work including all shop drawings. Such drawings and specifications shall be available for use by the owner, designer or his authorized representative.

The contractor shall maintain at the job site, a day-to-day record of work-in-place that is at variance with the contract documents. Such variations shall be fully noted on project drawings by the contractor and submitted to the designer upon project completion and no later than 30 days after acceptance of the project.

## **8. MATERIALS, EQUIPMENT, EMPLOYEES**

- a. The contractor shall, unless otherwise specified, supply and pay for all labor, transportation, materials, tools, apparatus, lights, power, fuel, heat, sanitary facilities, water, scaffolding and incidentals necessary for the completion of his work, and shall install, maintain and remove all equipment of the construction, other utensils or things, and be responsible for the safe, proper and lawful construction, maintenance and use of same, and shall construct in the best and most workmanlike manner, a complete job and everything incidental thereto, as shown on the plans, stated in the specifications, or reasonably implied therefrom, all in accordance with the contract documents.

- b. All materials shall be new and of quality specified, except where reclaimed material is authorized herein and approved for use. Workmanship shall at all times be of a grade accepted as the best practice of the particular trade involved, and as stipulated in written standards of recognized organizations or institutes of the respective trades except as exceeded or qualified by the specifications.
- c. Upon notice, the contractor shall furnish evidence as to quality of materials.
- d. Products are generally specified by ASTM or other reference standard and/or by manufacturer's name and model number or trade name. When specified only by reference standard, the Contractor may select any product meeting this standard, by any manufacturer. When several products or manufacturers are specified as being equally acceptable, the Contractor has the option of using any product and manufacturer combination listed. However, the contractor shall be aware that the cited examples are used only to denote the quality standard of product desired and that they do not restrict bidders to a specific brand, make, manufacturer or specific name; that they are used only to set forth and convey to proposals the general style, type, character and quality of product desired; and that equivalent products will be acceptable. Request for substitution of materials, items, or equipment shall be submitted to the designer for approval or disapproval; the designer prior to the opening of proposals shall make such approval or disapproval. Alternate materials may be requested after the award if it can clearly be demonstrated that it is an added benefit to the owner and the designer and owner approves.
- e. The designer is the judge of equality for proposed substitution of products, materials or equipment.
- f. If at any time during the construction and completion of the work covered by these contract documents, the language, conduct, or attire of any workman of the various crafts be adjudged a nuisance to the owner or designer, or if any workman be considered detrimental to the work, the contractor shall order such parties removed immediately from grounds.
- g. The Contractor shall cooperate with the designer and the owner in coordinating construction activities.
- h. The Contractor shall maintain qualified personnel and effective supervision at the site at all times during the project and exercise the appropriate quality control program to ensure compliance with the project drawings and specifications. The designer is responsible for determining compliance with the drawings and specifications.

## 9. CODES, PERMITS AND INSPECTIONS

The Contractor shall obtain the required permits, if required, give all notices, and comply with all laws, ordinances, codes, rules and regulations bearing on the conduct of the work under this contract. If the Contractor observes that the drawings and specifications are at variance therewith, he shall promptly notify the Designer in writing. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, codes, rules and regulations, and without such notice to the Owner, he shall bear all cost arising there from.

All work under this contract shall conform to the current North Carolina Building Code and other state and national codes as are applicable.

All fire alarm work shall be in accordance with the latest State Construction Office (SCO) *Guidelines for Fire Alarm Installation* (NFPA72). Where the contract documents are in conflict with the SCO guidelines, the SCO guidelines shall govern. The Contractor shall be responsible for all the costs for the correction of the work where he installs it in conflict with the latest edition of the SCO *Guidelines for Fire Alarm Installation*.

\*Inspection and certification of compliance by local authorities is necessary if an architect or engineer was not employed on the project.

**10. PROTECTION OF WORK, PROPERTY, THE PUBLIC AND SAFETY**

- a. The contractors shall be jointly responsible for the entire site and the building or construction of the same and provide all the necessary protections, as required by the owner or designer, and by laws or ordinances governing such conditions. They shall be responsible for any damage to the owner's property or of that of others on the job, by them, their personnel, or their subcontractors, and shall make good such damages. They shall be responsible for and pay for any damages caused to the owner. All contractors shall have access to the project at all times, except as indicated in the Supplemental General Conditions.
- b. The contractor shall provide cover and protect all portions of the structure when the work is not in progress, provide and set all temporary roofs, covers for doorways, sash and windows, and all other materials necessary to protect all the work on the building, whether set by him, or any of the subcontractors. Any work damaged through the lack of proper protection or from any other cause, shall be repaired or replaced without extra cost to the owner.
- c. No fires of any kind will be allowed inside or around the operations during the course of construction without special permission from the designer and owner.
- d. The contractor shall protect all trees and shrubs designated to remain in the vicinity of the operations by building substantial boxes around it. He shall barricade all walks, roads, etc., as directed by the designer to keep the public away from the construction. All trenches, excavations or other hazards in the vicinity of the work shall be well barricaded and properly lighted at night.
- e. The contractor shall provide all necessary safety measures for the protection of all persons on the job, including the requirements of the A.G.C. *Accident Prevention Manual in Construction*, as amended, and shall fully comply with all state laws or regulations and North Carolina State Building Code requirements to prevent accident or injury to persons on or about the location of the work. He shall clearly mark or post signs warning of hazards existing, and shall barricade excavations, elevator shafts, stairwells and similar hazards. He shall protect against damage or injury resulting from falling materials and he shall maintain all protective devices and signs throughout the progress of the work.
- f. The contractor shall adhere to the rules, regulations and interpretations of the North Carolina Department of Labor relating to Occupational Safety and Health Standards for the Construction Industry (Title 29, Code of Federal Regulations, Part 1926, published in Volume 39, Number 122, Part II, June 24, 1974, *Federal Register*), and revisions thereto as adopted by General Statutes of North Carolina 95-126 through 155.
- i. In the event of emergency affecting the safety of life, the protection of work, or the safety of adjoining properties, the contractor is hereby authorized to act at his own discretion, without further authorization from anyone, to prevent such threatened injury or damage. Any compensation claimed by the contractor on account of such action shall be determined as provided for under Article 13(b).
- j. Any and all costs associated with correcting damage caused to adjacent properties of the construction site or staging area shall be borne by the contractor. These costs shall include but not be limited to flooding, mud, sand, stone, debris, and discharging of waste products.

## 11. SUBCONTRACTS AND SUBCONTRACTORS

The Contractor is and remains fully responsible for his own acts or omissions as well as those of any subcontractor or of any employee of either. The Contractor agrees that no contractual relationship exists between the subcontractor and the Owner in regard to the contract, and that the subcontractor acts on this work as an agent or employee of the Contractor.

## 12. CONTRACTOR-SUBCONTRACTOR RELATIONSHIPS

The Contractor agrees that the terms of these Contract Documents shall apply equally to each Subcontractor as to the Contractor, and the Contractor agrees to take such action as may be necessary to bind each Subcontractor to these terms. The Contractor further agrees to conform to the Code of Ethical Conduct as adopted by the Associated General Contractors of America, Inc., with respect to Contractor-Subcontractor relationships. The Owner reserves the right to limit the amount of portions of work to be subcontracted as hereinafter specified.

## 13. CHANGES IN THE WORK AND CLAIMS FOR EXTRA COST

- a. The owner may have changes made in the work covered by the contract. These changes will not invalidate and will not relieve or release the contractor from any guarantee given by him pertinent to the contract provisions. These changes will not affect the validity of the guarantee bond and will not relieve the surety or sureties of said bond. All extra work shall be executed under conditions of the original contract.
- b. Except in an emergency endangering life or property, no change shall be made by the contractor except upon receipt of approved change order from the designer, countersigned by the owner authorizing such change. No claim for adjustments of the contract price shall be valid unless this procedure is followed. Should a claim for extra compensation by the contractor be denied by the designer or the owner, the contractor may pursue his claim in accordance with G.S. 143-135.3.

In the event of emergency endangering life or property, the contractor may be directed to proceed on a time and material basis whereupon the contractor shall proceed and keep accurately on such form as specified by the designer or owner, a correct account of costs together with all proper invoices, payrolls and supporting data. Upon completion of the work the change order will be prepared as outlined under either Method "c(1)" or Method "c(2)" or both.

- c. In determining the values of changes, either additive or deductive, contractors are restricted to the use of the following methods:
  1. Where the extra work involved is covered by unit prices quoted in the proposal, or subsequently agreed to by the Contractor, Designer, an Owner the value of the change shall be computed by application of unit prices based on quantities, estimated or actual as agreed of the items involved, except in such cases where a quantity exceeds the estimated quantity allowance in the contract by one hundred percent (100%) or more. In such cases, either party may elect to proceed under subparagraph c (2) herein. If neither party elects to proceed under c (2), then unit prices shall apply.
  2. The contracting parties shall negotiate and agree upon the equitable value of the change prior to issuance of the change order, and the change order shall stipulate the corresponding lump sum adjustment to the contract price.

- d. Under Paragraph "b" and Methods "c(2)" above, the allowances for overhead and profit combined shall be as follows: all contractors (the single contracting entity (prime), his subcontractors (1<sup>st</sup> tier subs), or their sub-subcontractors (2<sup>nd</sup> tier subs, 3<sup>rd</sup> tier subs, etc.) shall be allowed a maximum of 10% on work they each self-perform; the prime contractor shall be allowed a maximum of 5% on contracted work of his 1<sup>st</sup> tier sub; 1<sup>st</sup> tier, 2<sup>nd</sup> tier, 3<sup>rd</sup> tier, etc. contractors shall be allowed a maximum of 2.5% on the contracted work of their subs. ; Under Method "c(1)", no additional allowances shall be made for overhead and profit. In the case of deductible change orders, under Method "c(2)" and Paragraph (b) above, the contractor shall include no less than five percent (5%) profit, but no allowances for overhead.
- e. The term "net cost" as used herein shall mean the difference between all proper cost additions and deductions. The "cost" as used herein shall be limited to the following:
1. The actual costs of materials and supplies incorporated or consumed as part of the work;
  2. The actual costs of labor expended on the project site; labor expended in coordination, change order negotiation, record document maintenance, shop drawing revision or other tasks necessary to the administration of the project are considered overhead whether they take place in an office or on the project site.
  3. The actual costs of labor burden, limited to the costs of social security (FICA) and Medicare/Medicaid taxes; unemployment insurance costs; health/dental/vision insurance premiums; paid employee leave for holidays, vacation, sick leave, and/or petty leave, not to exceed a total of 30 days per year; retirement contributions; worker's compensation insurance premiums; and the costs of general liability insurance when premiums are computed based on payroll amounts; the total of which shall not exceed thirty percent (30%) of the actual costs of labor;
  4. The actual costs of rental for tools, excluding hand tools; equipment; machinery; and temporary facilities required for the work;
  5. The actual costs of premiums for bonds, insurance, permit fees and sales or use taxes related to the work.
- Overtime and extra pay for holidays and weekends may be a cost item only to the extent approved by the owner.
- f. Should concealed conditions be encountered in the performance of the work below grade, or should concealed or unknown conditions in an existing structure be at variance with the conditions indicated by the contract documents, the contract sum and time for completion may be equitably adjusted by change order upon claim by either party made within thirty (30) days after the condition has been identified. The cost of such change shall be arrived at by one of the foregoing methods. All change orders shall be supported by a unit cost breakdown showing method of arriving at net cost as defined above.
- g. Change orders shall be submitted by the contractor in writing to the owner/designer for review and approval. The contractor will provide such proposal and supporting data in suitable format. The designer shall verify correctness. Delay in the processing of the change order due to lack of proper submittal by the contractor of all required supporting data shall not constitute grounds for a time extension or basis of a claim. Within fourteen (14) days after receipt of the contractor's accepted

proposal including all supporting documentation required by the designer, the designer shall prepare the change order and forward to the contractor for his signature or otherwise respond, in writing, to the contractor's proposal. Within seven (7) days after receipt of the change order executed by the contractor, the designer shall, certify the change order by his signature, and forward the change order and all supporting data to the owner for the owner's signature. The owner shall execute the change order, within seven (7) days of receipt.

At the time of signing a change order, the contractor shall be required to certify as follows:

"I certify that my bonding company will be notified forthwith that my contract has been changed by the amount of this change order, and that a copy of the approved change order will be mailed upon receipt by me to my surety."

- h. A change order, when issued, shall be full compensation, or credit, for the work included, omitted or substituted. It shall show on its face the adjustment in time for completion of the project as a result of the change in the work.
- i. If, during the progress of the work, the owner requests a change order and the contractor's terms are unacceptable, the owner, may require the contractor to perform such work on a time and material basis whereupon the contractor shall proceed and keep accurately on such form as specified by the Designer or owner, a correct account of cost together with all proper invoices, payrolls and supporting data. Upon completion of the work a change order will be prepared with allowances for overhead and profit per paragraph d. above and "net cost" and "cost" per paragraph e. above. Without prejudice, nothing in this paragraph shall preclude the owner from performing or to have performed that portion of the work requested in the change order.

#### 14. ANNULMENT OF CONTRACT

If the contractor fails to begin the work under the contract within the time specified, or the progress of the work is not maintained on schedule, or the work is not completed within the time specified, or fails to perform the work with sufficient workmen and equipment or with sufficient materials to ensure the prompt completion of said work, or shall perform the work unsuitably or shall discontinue the prosecution of the work, or if the contractor shall become insolvent or be declared bankrupt or commit any act of bankruptcy or insolvency, or allow any final judgment to stand against him unsatisfied for a period of forty-eight (48) hours, or shall make an assignment for the benefit of creditors, or for any other cause whatsoever shall not carry on the work in an acceptable manner, the owner may give notice in writing, sent by certified mail, return receipt requested, to the contractor and his surety (if applicable) of such delay, neglect or default, specifying the same, and if the contractor within a period of seven (7) days after such notice shall not proceed in accordance therewith, then the owner shall, declare this contract in default, and, thereupon, the surety shall promptly take over the work and complete the performance of this contract in the manner and within the time frame specified. In the event the contractor, or the surety (if applicable) shall fail to take over the work to be done under this contract within seven (7) days after being so notified and notify the owner in writing, sent by certified mail, return receipt requested, that he is taking the same over and stating that he will diligently pursue and complete the same, the owner shall have full power and authority, without violating the contract, to take the prosecution of the work out of the hands of said contractor, to appropriate or use any or all contract materials and equipment on the grounds as may be suitable and acceptable and may enter into an agreement, either by public letting or negotiation, for the completion of said contract according to the terms and provisions thereof or use such other methods as in his opinion shall be required for the completion of said contract in an acceptable manner. All costs and charges incurred by the owner, together with the costs of completing the work under contract, shall be deducted from any monies due or which may become due said contractor and surety (if applicable). In case the expense so incurred by the owner shall be less than the sum which would have been payable under the contract, if it had been completed by said contractor, then the said contractor and surety (if



applicable) shall be entitled to receive the difference, but in case such expense shall exceed the sum which would have been payable under the contract, then the contractor and the surety (if applicable) shall be liable and shall pay to the owner the amount of said excess.

## 15. TERMINATION FOR CONVENIENCE

- a. Owner may at any time and for any reason terminate Contractor's services and work at Owner's convenience, after notification to the contractor in writing via certified mail. Upon receipt of such notice, Contractor shall, unless the notice directs otherwise, immediately discontinue the work and placing of orders for materials, facilities and supplies in connection with the performance of this Agreement.
- b. Upon such termination, Contractor shall be entitled to payment only as follows: (1) the actual cost of the work completed in conformity with this Agreement; plus, (2) such other costs actually incurred by Contractor as approved by Owner; (3) plus ten percent (10%) of the cost of the balance of the work to be completed for overhead and profit. There shall be deducted from such sums as provided in this subparagraph the amount of any payments made to Contractor prior to the date of the termination of this Agreement. Contractor shall not be entitled to any claim or claim of lien against Owner for any additional compensation or damages in the event of such termination and payment.

## 16. OWNER'S RIGHT TO DO WORK

If, during the progress of the work or during the period of guarantee, the contractor fails to prosecute the work properly or to perform any provision of the contract, the owner, after seven (7) days' written notice sent by certified mail, return receipt requested, to the contractor from the designer, may perform or have performed that portion of the work. The cost of the work may be deducted from any amounts due or to become due to the contractor, such action and cost of same having been first approved by the designer. Should the cost of such action of the owner exceed the amount due or to become due the contractor, then the contractor or his surety, or both, shall be liable for and shall pay to the owner the amount of said excess.

## 17. REQUESTS FOR PAYMENT

Contractor shall refer to the Supplemental General Conditions for specific directions on payment schedule, procedures and the name and address where to send applications for payments for this project. It is imperative that invoices be sent only to the above address in order to assure proper and timely delivery and handling.

The Designer/Owner will process all Contractor pay requests as the project progresses. The Contractor shall receive payment within thirty (30) consecutive days after Designer/Owner's approval of each pay request. Payment will only be made for work performed as determined by the Designer/Owner.

### Retainage:

- a. Retainage withheld will not exceed 5% at any time.
- b. The same terms apply to general contractor and subcontractors alike.
- c. Following 50% completion of the project no further retainage will be withheld if the contractor/subcontractor has performed their work satisfactorily.
- d. Exceptions:
  1. Owner/Contractor can reinstate retainage if the contractor/subcontractor does not continue to perform satisfactorily.

2. Following 50% completion of the project, the owner is authorized to withhold additional retainage from a subsequent periodic payment if the amount of retainage withheld falls below 2.5%.

Final payment will be made within thirty (30) consecutive days after acceptance of the work, receipt of marked-up "as-built" drawings and specifications and the submission both of notarized Contractor's affidavit and final pay request. All pay requests shall be submitted to the Designer/Owner for approval.

**THE CONTRACTOR'S FINAL PAYMENT AFFIDAVIT SHALL STATE:** "THIS IS TO CERTIFY THAT ALL COSTS OF MATERIALS, EQUIPMENT, LABOR, SUBCONTRACTED WORK, AND ALL ELSE ENTERING INTO THE ACCOMPLISHMENT OF THIS CONTRACT, INCLUDING PAYROLLS, HAVE BEEN PAID IN FULL."

## 18. PAYMENTS WITHHELD

The designer with the approval of the Owner may withhold payment for the following reasons:

- a. Faulty work not corrected.
- b. The unpaid balance on the contract is insufficient to complete the work in the judgment of the designer.
- c. To provide for sufficient contract balance to cover liquidated damages that will be assessed.
- d. The secretary of the Department of Administration may authorize the withholding of payment for the following reasons:
  - i. Claims filed against the contractor or evidence that a claim will be filed.
  - ii. Evidence that subcontractors have not been paid.

When grounds for withholding payments have been removed, payment will be released. Delay of payment due the contractor without cause will make owner liable for payment of interest to the contractor as provided in G.S. 143-134.1. As provided in G.S. 143-134.1(e), the owner shall not be liable for interest on payments withheld by the owner for unsatisfactory job progress, defective construction not remedied, disputed work, or third-party claims filed against the owner or reasonable evidence that a third-party claim will be filed.

## 19. MINIMUM INSURANCE REQUIREMENTS

Requirements. Providing and maintaining adequate insurance coverage is a material obligation of the Contractor and is of the essence of The Contract. All such insurance shall meet all laws of the City of Rocky Mount. Such insurance coverage shall be obtained from companies that are authorized to provide such coverage and that are authorized by the Commissioner of Insurance to do business in North Carolina. The Contractor shall at all times comply with the terms of such insurance policies, and all requirements of the insurer under any such insurance policies, except as they may conflict with existing North Carolina laws or The Contract. The limits of coverage under each insurance policy maintained by the Contractor shall not be interpreted as limiting the Contractor's liability and obligations under the Contract.

Insurance. Contractor agrees to maintain **Commercial General Liability** in amount of \$1,000,000 each occurrence, \$1,000,000 each occurrence in Personal & Advertising Injury with \$2,000,000 General Aggregate, and



\$2,000,000 Products/Completed Operations Aggregate. Contractor shall maintain \$1,000,000 in **automobile liability**, and other appropriate insurance, as well as Workers Compensation in the required statutory amount of \$500,000.00 for all employees participating in the provision of services under this Contract. The City of Rocky Mount shall be named by endorsement as an additional insured on the General and Automobile Liability policies. Certificates of such insurance shall be furnished by Contractor to the City and shall contain an endorsement to provide the City at least 30 days' written notice of any intent to cancel or terminate by either Contractor or the insuring company. Failure to furnish insurance certificates or maintain such insurance shall be a default under this contract and shall be grounds for immediate termination of this Contract.

## **20. ASSIGNMENT**

No assignment of the Contractor's obligations or the Contractor's right to receive payment hereunder shall be permitted. However, upon written request approved by the Owner and solely as a convenience to the Contractor, the Owner may: (1) forward the Contractor's payment check directly to any person or entity designated by the Contractor, and (2) include any person or entity designated by Contractor as a joint payee on the Contractor's payment check. In no event shall such approval and action obligate the Owner to anyone other than the Contractor, and the Contractor shall remain responsible for fulfillment of all contract obligations.

## **21. CLEANING UP AND RESTORATION OF SITE**

The Contractor shall keep the sites and surrounding area reasonably free from rubbish at all times and shall remove debris from the site from time to time or when directed to do so by the Owner. Before final inspection and acceptance of the project, the Contractor shall thoroughly clean the sites, and completely prepare the project and site for use by the Owner.

At the end of construction, the contractor shall oversee and implement the restoration of the construction site to its original state. Restoration includes but not limited to walks, drives, lawns, trees and shrubs, corridors, stairs and other elements shall be repaired, cleaned or otherwise restored to their original state.

## **22. GUARANTEE**

The contractor shall unconditionally guarantee materials and workmanship against patent defects arising from faulty materials, faulty workmanship or negligence for a period of twelve (12) months following the final acceptance of the work and shall replace such defective materials or workmanship without cost to the owner.

Where items of equipment or material carry a manufacturer's warranty for any period in excess of twelve (12) months, then the manufacturer's warranty shall apply for that particular piece of equipment or material. The contractor shall replace such defective equipment or materials, without cost to the owner, within the manufacturer's warranty period.

Additionally, the owner may bring an action for latent defects caused by the negligence of the contractor, which is hidden or not readily apparent to the owner at the time of beneficial occupancy or final acceptance, whichever occurred first, in accordance with applicable law.

Guarantees for roofing workmanship and materials shall be stipulated in the specifications sections governing such roof, equipment, materials, or supplies.

## **23. STANDARDS**

All manufactured items and/or fabricated assemblies subject to operation under pressure, operation by connection to an electric source, or operation involving a connection to a manufactured, natural, or LP gas source shall be

constructed and approved in a manner acceptable to the appropriate State inspector which customarily requires the label or re-examination listing or identification marking of appropriate safety standard organization, such as the American Society of Mechanical Engineers for pressure vessels; the Underwriters Laboratories and/or National Electrical Manufacturers Association for electrically operated assemblies; or the American Gas Association for gas operated assemblies, where such approvals of listings have been established for the type of device offered and furnished. Further, all items furnished shall meet all requirements of the Occupational Safety and Health Act (OSHA), and State and federal requirements relating to clean air and water pollution.

All equipment and products must be independent third party tested and labeled (UL, FM, or CTS) before final connections to Owner services or utilities.

#### **24. EQUAL OPPORTUNITY CLAUSE**

The non-discrimination clause contained in Section 202 (Federal) Executive Order 11246, as amended by Executive Order 11375, relative to equal employment opportunity for all persons without regard to race, color, religion, sex or national origin, and the implementing rules and regulations prescribed by the secretary of Labor, are incorporated herein.

The contractor(s) agree not to discriminate against any employee or applicant for employment because of physical or mental disabilities in regard to any position for which the employee or applicant is qualified. The contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified individuals with such disabilities without discrimination based upon their physical or mental disability in all employment practices.

#### **25. MINORITY BUSINESS PARTICIPATION**

The City Council Minority Business Resolution establishes a ten percent (10%) goal for participation by minority business valued \$100,000.00 or more for each City building project funded by local funds.

For construction contracts with a value of less than \$300,000, the Owner has the responsibility to make a good faith effort to solicit minority proposals and to attain the goal. The contractor shall include with his proposal a completed Identification of HUB Certified/Minority Business Participation form. Contractor shall submit completed Appendix F MBE Documentation for Contract Payments form with final payment request.

For construction contracts with a value of \$300,000 or greater, the contractor shall comply with the document *Guidelines for Recruitment and Selection of Minority Businesses for Participation in State Construction Contracts* including Identification of Minority Business Participation, Affidavits A, B, C, and D, and Appendix E. These forms provided herein are hereby incorporated and made a part of this contract. Forms can be found at [rockymountnc.gov/mwbe](http://rockymountnc.gov/mwbe)

#### **26. ACCESS TO PERSONS AND RECORDS**

The State Auditor shall have access to persons and records as a result of all contracts or grants entered into by the Owner in accordance with General Statute 147-64.7. The Owner's internal auditors shall also have the right to access and copy the Contractor's records relating to the Contract and Project during the term of the Contract and within two years following the completion of the Project/close-out of the Contract to verify accounts, accuracy, information, calculations and/or data affecting and/or relating to Contractor's requests for payment, requests for change orders, change orders, claims for extra work, requests for time extensions and related claims for delay/extended general conditions costs, claims for lost productivity, claims for lost efficiency, claims for idle equipment or labor, claims for price/cost escalation, pass-through claims of subcontractors and/or suppliers, and/or any other type of claim for payment or damages from Owner and/or its project representatives.

## 27. GOVERNING LAWS

This contract is made under and shall be governed and construed in accordance with the laws of the State of North Carolina, without regard to its conflict of laws rules, and within which State all matters, whether sounding in Contract or tort or otherwise, relating to its validity, construction, interpretation and enforcement shall be determined.

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**ATTACHMENT D: SUPPLEMENTARY GENERAL CONDITIONS**

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**1. Definitions**

- a. The Contract documents shall consist of the Contract, the accepted Proposal, the General Conditions of the Contract, and the Drawings and Specifications, including all modifications thereof incorporated in the documents before their execution.
- b. Whenever the term "Contractor" is used, it shall be understood as referring to the General Contractor, subcontractor, and all other contractors or their duly authorized agent to whom the work here described is awarded by Contract.
- c. Whenever the term "Engineer" is mentioned, it is understood to mean the Director of Public Works, his assistant or duly authorized agent. The Director of Public Works shall make all necessary explanations as to the meaning and intent of the Specifications and may correct any errors or omissions in same which is necessary for the proper fulfillment of its intentions.
- d. Whenever the term "City" is used, it is to mean the City of Rocky Mount, North Carolina.
- e. The term "Work" of the Contractor or subcontractor includes labor or materials, or both, equipment, transportation, or other facilities necessary to complete the Contract.

**2. Time of Completion**

Contract time for substantial completion is 150 calendar days from notice to proceed.

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 period between December 15 through March 6 may be excluded from the contract time for annual plant maintenance and winter weather delays by mutual agreement between the Contractor and the Owner

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

**INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES:**

Except for final/long life pavement markings, the Contractor will be required to complete all work included in this contract and shall place and maintain traffic on same.

The completion date for this intermediate contract time is 120 calendar days from Notice to Proceed.

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

3. **Intent of Documents:** The intention of the documents is to include all labor and materials, equipment and transportation necessary for the proper execution of the work. It is not intended, however, that materials or work not covered by or properly inferable from any heading, branch, class or trade of the Specifications shall be supplied unless distinctly so noted on the drawings. Materials or work described in words which so applied have a well-known technical or trade meaning shall be held to refer to such recognized standards.
4. **Detail Drawings and Instructions:** The City shall furnish with reasonable promptness, additional instructions, by means of drawings or otherwise, necessary for the proper execution of the work. All such drawings and

instructions shall be consistent with the Contract documents, true developments thereof, and reasonably inferable therefrom.

5. **Progress Schedule:** The Contractor shall submit for approval by the Engineer prior to the pre-construction conference, a carefully prepared progress schedule, showing the proposed dates of starting and completing each of the various operations of the work. If applicable, liquidated damages may be deducted on a monthly basis based on contractor's progress as compared to the approved project schedule. The progress schedule shall be in graphic form and if required, and in a format acceptable to the City.
6. **Contractor's Understanding:** It is understood and agreed that the Contractor has, by careful examination satisfied himself as to the nature and location of the work, the conformation of the ground, the character, quality and quantity of materials to be encountered, the character of equipment and facilities needed preliminary to and during the prosecution of the work, the general and local conditions, and all other matters which can in any way affect the work under this Contract. No verbal agreement or conversation with any officer, agent or employee of the City, either before or after the execution of the Contract shall affect or modify any terms or obligations herein contained.
7. **Superintendence by Contractor:** Except where the Contractor is an individual and gives his personal superintendence to the work, the Contractor shall provide a competent superintendent, satisfactory to the City of Rocky Mount on the work at all times during working hours with full authority to act for him. The Contractor shall also provide an adequate staff for the proper coordination and prosecution of the work.
8. **Materials, Appliances, Employees:** Unless otherwise specified, the Contractor shall provide and pay for all materials, labor, water, tools, equipment, light, power, transportation and other facilities necessary for the execution and completion of the work.  
  
Unless otherwise specified, all materials shall be new and both workmanship and materials shall be of good quality. The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials.  
  
The Contractor shall at all times enforce strict discipline and good order among his employees and shall not employ on the work any unfit person or anyone not skilled in the work assigned to him.
9. **Technical Specifications and Drawings:** Anything mentioned in the Technical Specifications and not shown on the Drawings or shown on the Drawings and not mentioned in the Technical Specifications shall be of like effect as if shown on or mentioned in both. In case of difference between Drawings and Technical Specifications, the Technical Specifications shall govern. In case of any discrepancy in Drawings, or Technical Specifications, the matter shall be immediately submitted to the City of Rocky Mount without whose decision, said discrepancy shall not be adjusted by the Contractor, save only at his own risk and expense.
10. **Royalties and Patents:** The Contractor shall pay all royalties and patent fees. He shall defend all suits or claims for infringement of any patent rights and shall save the City harmless from loss on account thereof, except that the city shall be responsible for such loss when a particular process or the product of a particular manufacturer or manufacturers is specified, but if the Contractor has information that the process or article specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such information to the Engineer.
11. **Permits:** Permits and licenses of a temporary nature necessary for the prosecution of the work shall be secured and paid for by the Contractor unless otherwise stipulated. Permits, licenses and easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by the City unless otherwise stipulated.
12. **Protection of Work and Property:** The Contractor shall continuously maintain adequate protection of all his work from damage and shall protect the City's and private property from injury or loss arising in connection with this Contract. He shall make good any such damages, injury or loss, except such as may directly be due to errors in the Contract documents or caused by agents or employees of the City.
13. **Cooperation with Utility Owners:** Prior to the beginning of construction, the City will notify all utility owners

known to have facilities affected by the construction of the project. The Contractor shall coordinate the schedule with the utility owners for the necessary adjustments of all affected public or private utility facilities. The utility adjustments may be made either before or after the beginning of construction of the project. The adjustments will be made by the utility owner or his representative or by the Contractor when such adjustments are part of the work covered by his Contract.

The Contractor shall use special care in working around and near all existing utilities that are encountered during construction, protecting them where necessary so that they will give uninterrupted service. The Contractor shall call the agency concerned for location of all utilities and shall be responsible for any damage to existing utilities and structures resulting from his work around these utilities or structures.

The Contractor shall cooperate with the utility owner, and/or the owner's representative in the adjustment or placement of utility facilities when such adjustment or placement is made necessary by the construction of the project or has been authorized by the City.

In the event that utility services are interrupted by the Contractor, the Contractor shall promptly notify the owners and shall cooperate with the owners and/or the owner's representative in the restoration of service in the shortest time possible.

Existing fire hydrants shall be kept accessible to fire department personnel at all times.

Prior to submitting his bid, the Contractor shall make his own determination as to the nature and extent of the utility facilities, including proposed adjustments, new facilities, or temporary work to be performed by the utility owner or his representative; and as to whether or not any utility work is planned by the owner in conjunction with the project construction. The Contractor shall consider in his bid all of the permanent and temporary utility facilities in their present or relocated positions, whether or not specifically shown on the plans or covered in the project special provisions. It will be the Contractor's responsibility to anticipate any additional costs to him resulting from such utility work and to reflect these costs in his bid for the various items in the Contract.

Where changes to utility facilities are to be made solely for the convenience of the Contractor, it shall be the Contractor's responsibility to arrange for such changes and the Contractor shall bear all costs of such changes.

14. **Inspection of Work:** The Engineer and his representatives shall at all times have access to the work wherever it is in preparation or progress and the Contractor shall provide facilities for such access and for inspection. If the specifications, the Engineer's instructions, laws, or ordinances or any public authority require any work to be specially tested or approved, the Contractor shall give the Engineer timely notice of its readiness for inspection. Inspections by the Engineer shall be promptly made, and where practicable at the source of supply. If any work should be covered up without approval or consent of the Engineer, it must, if required by the Engineer, be uncovered for examination at the Contractor's expense.
15. **Changes in Work:** The City, without invalidating the Contract, may order extra work or make changes by altering, adding or deducting from the work, the Contract sum being adjusted accordingly. All such work shall be executed under the conditions of the original Contract except that any claims for extension of time caused thereby shall be adjusted at the time ordering such changes, as mutually agreed upon by the City and Contractor. As long as additional work does not exceed original estimates, additional days will not be granted unless otherwise approved by the Director of Public Works.

The value of any such extra work or change shall be determined by the unit prices named in the Contract, up to but not exceeding 25% of the original Contract total price.

For extra work which exceeds 25% of the original Contract total, the value of any such extra work or change shall be determined in one or more of the following ways:

- (a) By estimate and acceptance of a lump sum.
- (b) By unit prices named in the Contract or subsequently agreed upon.



(c) By cost and percentage or by cost and a fixed fee.

16. **Conformity with Plans and Specifications:** All work performed, and all materials furnished shall be in reasonably close conformity with the lines, grades, cross sections, dimensions, and material requirements, including tolerances, shown on the plans, or indicated in the specifications.

In the event the Engineer finds the materials or the finished product in which the materials are used not within reasonably close conformity with the plans and specifications, but that reasonably acceptable work has been produced, he will then make a determination if the work is to be accepted and remain in place. If the Engineer agrees that the work is to be accepted, he will have the authority to make such adjustment in Contract price as he deems warranted based upon sound engineering judgment and the final estimate will be paid accordingly.

In the event the Engineer finds the materials or the finished product in which the materials are used, or the work performed are not in reasonably close conformity with the plans and specifications and have resulted in an inferior or unsatisfactory product, the work or materials shall be removed and replaced or otherwise corrected by the Contractor at no cost to the City.

17. **Liquidated Damages and Delays:**

- a. **Liquidated Damages.** If the work cannot be completed within the time stipulated in the Contract, including any extensions of time for excusable delays as herein provided, the Contractor shall pay to the City of Rocky Mount, a fixed and agreed amount, as liquidated damages for each calendar day of delay, until the work is completed, the amount as set forth in the Contract and the Contractor and his sureties shall be liable to the City of Rocky Mount for the amount thereof.
- b. **Excusable Delays.** The right of the Contractor to proceed shall not be terminated nor shall the Contractor be charged with liquidated damages for any delays in the completion of the work due to:
  - 1) Any act or omission of the City outside the scope of the Contract, including extra work; acts of God; unusually severe and abnormal weather conditions; acts of any other contractor in the performance of work for the City; or other conditions, events, or circumstances beyond the control and without the fault or negligence of the Contractor, which the Contractor could not have reasonably anticipated; or
  - 2) Any delay of any Subcontractor occasioned by any of the causes specified in subparagraph (1) above.

Provided, however, the Contractor shall provide written notice to the Engineer within ten (10) days from the occurrence, condition, event, or other cause which is claimed to have delayed the completion of the work. Such notice shall state what effect, if any, such occurrence, condition, event, or other cause is claimed to have upon the time for completing the Contract work, and shall state in what respects, if any, the Contract completion deadline should be revised, and the reasons therefore. No claim by the Contractor for an extension of time for completion shall be considered unless notice of such delay claim is given the City in accordance with the provisions of this subparagraph.

- c. **No Damages for Delays.** The City shall not be obligated or liable to the Contractor for, and the Contractor hereby expressly waives any claims against the City for, any damages, costs, or expenses of any nature occasioned by delays, work disruptions or interference, changes in work sequence, work suspension or rescheduling arising from any act or omission of the City outside the scope of the Contract, acts of God, unusually severe and abnormal weather conditions, or other causes beyond the Contractor's control, it being understood and agreed that the Contractor's sole and exclusive remedy in the event of his inability to achieve completion by the Contract deadline due to claimed delays shall be an extension of the Contract schedule, but only if a claim for such extension is properly made in accordance with the provisions of subparagraph (b) above.
18. **Opening Sections of Project to Traffic:** The City of Rocky Mount, at its election, may give notice to the Contractor and place in use those sections of the improvements which have been completed, inspected and can be accepted as complying with the technical specifications; and if, in its opinion, each such section is reasonably safe, fit, and convenient for the use and accommodations for which it was intended. On such

sections which are open, the Contractor shall conduct the remainder of his operations to cause the least obstruction to traffic. The Contractor shall not be relieved of his liability or responsibility, shall not receive any additional compensation due to the added cost of the work, nor shall he receive any extension of the completion date, by reason of such openings. The Contractor shall not be responsible for any maintenance cost due directly to the use of such sections. The period of guarantee stipulated in Section 50 "Guarantee of Work," shall not begin to run until the date "of release of final inspection punch list items" for all work which the Contractor is required to construct under this Contract.

19. **City's Right to Do Work:** If the Contractor should neglect to prosecute the work promptly or fail to **perform** any provisions of the Contract, the City, after 24 hours written notice to the Contractor, may without prejudice to any other remedy he may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor.
20. **Correction of Work Before Final Payment:** Before issuing final payment, the Contractor shall promptly remove from the premises all materials condemned by the Engineer as failing to conform with the Contract, whether incorporated in the work or not, and the Contractor shall promptly replace and re-execute his own work in accordance with the Contract and without expense to the City and shall bear the expense of making good all work of other Contractors destroyed or damaged by such removal or replacement.
21. **Final Inspection, Clean Up and Project Final Acceptance:**
  - 21.1. **Final Inspection**
    - a. When the improvements contained in this Contract are substantially completed, the Contractor shall notify the Engineer in writing that the work will be ready for final inspection on a definite date which shall be stated in the notice. The notice shall be given at least ten (10) days prior to the date stated for final inspection and bear the signed concurrence of the representative of the Engineer having charge of the inspection. If the Engineer determines that the status of the improvements is accurately represented, the Engineer will make the arrangements necessary to have the final inspection on the date stated in the notice, or soon thereafter as is practicable. The Final Inspection Team will include the Engineer's representatives and the Contractor. The Final Inspection Team may also include representatives of each department of the City of Rocky Mount as well as a representative of the North Carolina Department of Transportation.
    - b. The Final Inspection Team, on the date agreed upon in 21.1(a), shall make a thorough visual inspection to ensure that the project is satisfactorily completed according to the plans and specifications of the Contract and that all clean-up work is complete.
    - c. The Final Inspection Team, following the final inspection, shall prepare a written list of the deficient items and clean-up work that needs to be corrected before the issuance of the Final Acceptance Document. The list shall include a reasonable period of time, agreed upon with the Contractor, allowing for the completion of the deficient items and clean-up work. A copy of the list shall be mailed to the Contractor.
  - 21.2. **Clean Up Work:** Clean up work shall include removal of resurfacing materials and debris, and trash in the medians, rights-of-way, and driveways of the project and intersecting streets.
  - 21.3. **Project Final Acceptance:** The Contractor, after finishing all clean-up work and correction of all deficient items, shall notify the appropriate party on the Inspection Team to make a final inspection of the project. If the Final Inspection Team, during its inspection finds that the deficient items and clean-up work have been satisfactorily completed according to the terms of this Article and the contract specifications, then the Final Inspection Team recommends to the Engineer 's Representative to issue the Final Acceptance Document.

22. **Payments to Contractor and Retainage:**

- 22.1. **Partial Payments**



- a. Partial payment will be based upon progress estimates prepared by the Engineer once each month on the date established by the Engineer.
- b. Monthly or partial payments made by the City of Rocky Mount to the Contractor are monies paid on completed work for the purpose of assisting the Contractor to expedite the work of construction. The Contractor shall be responsible for the care and protection of all materials and work upon which payments have been made until final acceptance of such work and materials by the City of Rocky Mount. Such payments shall not constitute a waiver of the right of the City of Rocky Mount to require the fulfillment of all terms of the contract and the delivery of all improvements embraced in this contract complete and satisfactory to the City of Rocky Mount in all details.

22.2. Retainage: Retainage will be deducted in accordance with Section 17 of the General Conditions.

22.3. Final Payment

- a. After final inspection and acceptance by the City of Rocky Mount of all work under the contract, the Contractor shall prepare his requisition for final payment which shall be the sum of the Bid Unit Prices multiplied by the quantities actually issued or this sum adjusted by approved change orders less prior payments. Final payment request must be accompanied by the Final Payment Affidavit.
- b. The City of Rocky Mount before paying the final estimate may require the Contractor to furnish releases or receipts from all subcontractors having performed any work and all persons having supplied materials, equipment and services to the Contractor, if the City of Rocky Mount deems the same necessary in order to protect its interest. The City of Rocky Mount, however, may, if it deems such action advisable, make payment in part or in full to the Contractor without requiring the furnishing of such releases or receipts and any payments so made shall in no way impair the obligations of any surety or sureties furnished under the contract.
- c. Withholding of any amount due the City of Rocky Mount as "Liquidated Damages", shall be deducted from payments due to the Contractor.

The City may withhold on account of subsequently discovered evidence, nullify whole or part of any certificate to such extent as may be necessary to protect itself from loss on account of:

- a. Defective work not remedied.
- b. Claims filed or reasonable evidence indicating probable filing of claims.
- c. Failure of the Contractor to make payments properly to Subcontractor or for materials or labor.
- d. A reasonable doubt that the Contract can be completed for the balance unpaid.
- e. Damage to another Contractor.

23. **City's Right to Terminate Contract**: If the Contractor should be adjudged as bankrupt, or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed on account of insolvency, or if he should persistently or repeatedly refuse or should fail, except in cases for which extension of time is provided, to supply enough properly skilled workmen or proper materials, or if he should fail to make prompt payment to Subcontractors or for material or labor, or persistently discharged laws, ordinances or the instructions of the Engineer, or otherwise be guilty of a substantial violation of any provision of the contract, then the City, upon the certificate of the Engineer that sufficient cause exists to justify such action, may without prejudice to any other right or remedy and after giving the Contractor seven days written notice, terminate the employment of the Contractor and take possession of the premises and of all materials, tools, appliances, there and finish the work by whatever method it may deem expedient. In such case, the Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the contract price shall

exceed the expense of finishing the work, including compensation for additional managerial and administrative services, such excess shall be paid to the Contractor. If such expense shall exceed the unpaid balance, the Contractor shall pay the difference to the City. The expense incurred by the owner as herein provided, and the damage incurred through the Contractor's default, shall be certified by the Engineer.

24. **Contractor's Right to Stop Work or Terminate Contract:** If the work should be stopped under an order of any Court, or other public authority, for a period of three months, through no act or fault of the Contractor or of anyone employed by him, then the Contractor may, upon seven days written notice to the Engineer, stop work or terminate this contract and recover from the City payment for all work executed and loss sustained upon any plant or materials and reasonable profit and damages.
25. **Liability Insurance:** The Contractor shall maintain such insurance as will protect him from claims under workman's compensation acts and such other insurance as will protect him and the City from any other claims for damages for property damage and personal injury, including death, which may arise from operations under this contract whether such operations be by himself, or by any subcontractor or anyone directly or indirectly employed by either of them. Certificates of insurance shall be filed with the City's Purchasing Manager, if he so requires, and shall be subject to his approval for adequacy of protection. Policies of insurance coverage for personal liability and property damage shall be in accordance with Section 19 of the General Conditions and name the City of Rocky Mount as an additionally insured.
26. **Care of Work:**
- a. The Contractor shall be responsible for all damages to person or property that occur as a result of his fault or negligence in connection with the prosecution of the work and shall be responsible for the proper care and protection of all materials delivered and work performed until completion and final acceptance, whether or not the same has been covered in whole or in part by payments made by the City of Rocky Mount.
  - b. In an emergency affecting the safety of life or property, including adjoining property, the Contractor, without special instructions or authorization is authorized to act at his discretion to prevent such threatened loss or injury and he shall so act. He shall likewise act if instructed to do so by the City of Rocky Mount. Any compensation claimed by the Contractor on account of such emergency work will be determined by the City of Rocky Mount as provided in Section 15 "CHANGES IN WORK".
  - c. The Contractor shall avoid damage as a result of his operations to existing sidewalks, streets, curbs, pavements, utilities (except those which are to be replaced or removed), adjoining property, etc., and he shall at his own expense completely repair any damage thereto caused by his operations.
  - d. The Contractor shall shore up, brace, underpin, secure, and protect as may be necessary, all foundations and other parts of existing structures adjacent to, adjoining, and in the vicinity of the site, which may be in any way affected by the excavations or other operations connected with the construction of the improvements embraced in this contract. The Contractor shall be responsible for the giving of any and all required notices to any adjoining or adjacent property owner or other party before the commencement of any work. The Contractor shall indemnify and save harmless the City of Rocky Mount from any damages on account of settlements or the loss of lateral support of adjoining property and from all loss or expense and all damages for which the City of Rocky Mount may become liable in consequence of such injury or damage to adjoining and adjacent structures and their premises.
  - e. Any claim for damage arising under this contract shall be made in writing to the party liable within reasonable time of the first observance of such damage.
27. **Indemnity:** The Contractor shall indemnify, save harmless, and defend the City against all losses and claims, demands, payments, suits, actions, recoveries, and judgments of every nature and description brought or recovered against it by reason of any act or omission of the said Contractor, his agents and employees, in the execution of work or in the guarding of it.
28. **Safety and Accident Prevention:**

- 28.1. General The Contractor shall exercise proper precautions at all times for the protection of persons and property and shall be responsible for all damages to persons or property, either on or off the site, which occur as a result of his prosecution of the work. The Contractor shall abide by all applicable safety standards and regulations contained in the Occupational Safety and Health Act, for the construction industry and any other applicable Laws.
- a. All excavation and trenching work shall conform to OSHA requirements under 29 CFR Part 1926 Subpart P and any other applicable requirements.
  - b. The Contractor shall have an employee who is a designated competent person as described under OSHA regulations, 29 CFR Part 1926 Subpart P. The person shall be capable of identifying existing or predictable hazards in the surroundings, or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.
  - c. The Contractor shall provide and maintain safety equipment as outlined under OSHA 29 CFR Part 1926 Subpart P and other applicable safety provisions, which include trench boxes, ladders, shoring, barricades, warning vests, gas monitors, meter for hazardous atmospheres and other necessary safety equipment to protect the employees and the job site.
- 28.2. Records: The Contractor shall maintain an accurate record of all cases of death, occupational diseases, and injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment on work under the contract. The Contractor shall promptly furnish the City of Rocky Mount with reports concerning these matters.
- 28.3. Indemnity: The Contractor shall indemnify and save harmless the City of Rocky Mount from any claims for damages resulting from personal injury and/or death suffered or alleged to have been suffered by any person as a result of any work conducted under this contract.

**29. Bidding Process and Guaranty Bonds:**

- 29.1. Bidding Process: The City of Rocky Mount's bidding process policy is regulated by the North Carolina State GS 143-129, GS 143-131 and City of Rocky Mount Standard Procedure 501-3 which define Formal and Informal public contract.
- a. Formal Contracts, as described by GS 143-131 and City of Rocky Mount Administrative Policy: Procurement Policy III.18, are those contracts for construction or repair work that require expenditure of \$500,000.00 or more; and for the purchase or lease purchase of apparatus, supplies, materials or equipment that require an expenditure of \$90,000.00 or more.
  - b. Informal Contracts, as described by GS 143-131 and City of Rocky Mount Administrative Policy: Procurement Policy III.18, are those contracts for construction or repair work that require expenditure of \$30,000.00 to \$499,999.99; and for the purchase or lease purchase of apparatus, supplies, materials or equipment that require expenditure of \$30,000.00 to \$89,999.00.
  - c. All Bids as described in 29.01(a), shall be accompanied by a deposit equal to not less than 5 percent of the total amount of the Bid in the form of cash, cashier's check, a certified check or a bid bond by a surety authorized to do business in the State of North Carolina.
- 29.2. Guaranty Bonds
- 29.3. Guaranty Bonds for Formal Contracts
- a. The successful bidder in a formal contract \$30,000.00, within ten (10) days after the notice of award is received by him, shall provide the City of Rocky Mount with a contract payment bond and a contract performance bond, each in an amount equal to 100 percent of the amount of the contract. All bonds shall be in conformance with GS 44A-33. The corporate surety furnishing the

bonds shall be authorized to do business in the State of North Carolina.

- b. The successful bidder's failure to execute the contract and file acceptable bonds within ten (10) days after the notice of award is received by him will be just cause for the forfeiture of the bid bond or bid deposit and rescinding the award of the contract. Award may then be made to the next lowest responsible bidder or the work may be re-advertised and constructed under contract, or otherwise as the City of Rocky Mount may decide.

29.4. Guaranty Bonds for Informal Contracts

- a. The successful bidder, within ten (10) days after the notice of award is received by him, shall provide a payment bond in the amount of 100 percent of the amount of the contract.
- b. No performance bond or payment bond will be required for individual construction contracts if the total cost is less than \$100,000.00. A performance bond and payment bond for the full amount of the contract is required for all construction contracts over \$50,000.00 if the contract is part of a project with a total cost of over \$299,999.99. In place of the bonds the Contractor may deposit money, a certified check, or acceptable government securities.

30. **Sanitary Facilities:** The Contractor shall furnish, install, and maintain ample sanitary facilities for the workers. As the needs arise, a sufficient number of enclosed temporary toilets shall be conveniently placed as required by the sanitary codes of the State and City of Rocky Mount. Drinking water shall be provided from an approved source, so piped or transported as to keep it safe and fresh and served from single service containers or satisfactory types of sanitary drinking stands or fountains. All such facilities and services shall be furnished in strict accordance with existing and governing health regulations.

31. **Use of Premises:**

- a. The Contractor shall confine his equipment, storage of materials, and construction operations to the contract limits as shown on the Drawings or if no contract limits are shown, to the right-of-way shown and as prescribed by ordinances or permits or as may be directed by the City of Rocky Mount and shall not unreasonably encumber the site or public rights of way with his materials and construction equipment.
- b. The Contractor shall comply with all reasonable instructions of the City of Rocky Mount and the ordinances and codes of the City of Rocky Mount, regarding signs, advertising, traffic, fires, explosives, danger signals, and barricades.

32. **Liens:**

Neither the final payment nor any part of the retained percentage shall become due until the Contractor, shall deliver to the City a complete release of all liens arising out of the contract, or receipts in full in lieu thereof and, if required in either case, an affidavit that so far as he has knowledge or information the releases and receipts include all labor and materials for which a lien could be filed but the Contractor may, if any subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the Engineer, to indemnify the City against any lien. If any lien remains unsatisfied after all payments are made, the Contractor, shall refund to the City all monies that the latter may be compelled to pay in discharging such a lien, including all costs and a reasonable attorney's fee.

A copy of the Affidavit shall be submitted with the Contractor's request for final payment.

33. **Working Time Restrictions:** Work hours shall be restricted to 7:00 am to 7:00 pm Monday through Saturday unless otherwise approved by the Engineer.

**The Contractor shall notify the Engineer 48 hours in advance of any work scheduled on weekends.**

34. **Citizen Notification:** The Contractor shall be responsible for notifying, in writing, all property owners/residents directly affected by this project just prior to beginning construction. A copy of this notification shall be submitted and approved by the Engineer prior to its issuance to the residents. This also includes all businesses whether

owned, leased or rented by the property owner of record. Notices are to be mailed and/or hand delivered. Hand delivered notices shall be door-hanger type printed on card stock.

If towing is necessary, the Engineer will make the final decision if the vehicles are to be towed. The time and location in which the "No Parking" signs were posted, and the Notices of Work were distributed will be a considering factor for the towing of vehicles.

On the day of actual work, any towing necessary may be carried out under CITY OF ROCKY MOUNT.

35. **Separate Contracts:** The City reserves the right to let other contracts in connection with this work. The Contractor shall afford other Contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work and shall properly connect and coordinate his work with others.
36. **Subcontracted Work and Subcontractors:**
- a. The Contractor shall, as soon as practicable after the signing of the contract, notify the Engineer in writing of the names of subcontractors proposed for the work and shall not employ any subcontractors that the Engineer may within a reasonable time object to as incompetent or unfit. The Contractor agrees that he is as fully responsible to the City for the acts and omissions of his subcontractor and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him. Nothing in the Contract Documents shall create any contractual relation between any subcontractor and the City.
  - b. The Contractor shall obtain approval of subcontractors as well as any change in subcontractors during the work on the contract from the Engineer. A period of seven (7) days minimum is required for the approval of a subcontractor.
37. **Points and Instructions:** The Contractor shall provide reasonable and necessary opportunities and facilities for setting points and making measurements. He shall not proceed until he has made timely demand upon the Engineer for, and has received from him, such points and instructions as may be necessary as the work progresses. The work shall be done in strict conformity with such points and instructions. The Contractor shall carefully preserve bench marks, reference points and stakes, and in case of willful or careless destruction, he shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.
38. **Status of Engineer:** The Engineer shall have general supervision and direction of the work. He has authority to stop the work wherever such stoppage may be necessary to insure proper execution of the contract. He shall also have authority to reject all work and materials which do not conform to the contract, to direct the application of force to any portion of the work, as in his judgment is required, and to order the force increased or diminished, and to decide questions which arise in the execution of the work.
39. **Engineer's Decision:** The Engineer shall, within a reasonable time after their presentation to him, make decisions in writing on all claims of the City or the Contractor and on all other matters relating to the execution and progress of the work or the interpretation of the contract documents. All such decisions of the Engineer shall be final.
40. **Lands for Work:** The City shall provide the lands upon which the work under this contract is to be done, except that the Contractor shall provide land required for the erection of temporary construction facilities and storage of his materials, together with right of access to same.
41. **Cleaning Up:** The Contractor shall, as directed by the Engineer, remove from the City's property and from all other public and private property, at his own expense, all temporary structures, rubbish and waste materials resulting from his own operations.
42. **Access to Property:** The Contractor shall, where necessary, provide and maintain access to and from all properties along the line of his work.



43. **Safeguards:** The Contractor shall provide, erect and maintain adequate barricades, warning signs, and lights at all excavations, closures, detours and points of danger.
44. **Survey Construction Stakes:**
1. The Contractor shall furnish all surveys unless otherwise specified.
  2. The Engineer will set sufficient points to establish alignment and grade. The Contractor shall be responsible for preserving all stakes and marks.
45. **Materials Sampling and Testing:** All tests of material shall be made by a recognized and approved testing laboratory designated by the Engineer. The expense of such tests shall be borne by the City unless otherwise specified. The Engineer shall have the option to reject request for testing due to the Contractor's inadequate preparation of material or other reasonable causes determined by the Engineer as necessary for the delay of testing. The Contractor shall notify the Engineer 48 hours ahead of time for the needed test.
46. **Tools, Plant and Equipment:** If at any time before the commencement or during the work, tools, plant, or equipment appear to the Engineer to be insufficient, inefficient, or inappropriate to secure the quality of the work required or the proper rate of progress, the Engineer may order the Contractor to increase their efficiency, to improve their character, to augment their number, or to substitute new tools, plant or equipment as the case may be, and the Contractor must conform to such order; but the failure of the Engineer to give such an order shall not relieve the Contractor to secure the quality of work and the rate of progress necessary to complete the work within the time required.
47. **Measurement of Quantities:** The quantities of work performed will be computed by the Engineer on the basis of measurements taken by him or his assistants, and these measurements shall be final and binding. The specifications shall designate the manner in which the measurements of the various types of work shall be measured.
48. **Working Day Defined:** A day shall be counted as a working day in the opinion of the Engineer, whether conditions would permit the Contractor to do six (6) hours of work within daylight hours. Days of delay due to acts of GOD, strikes, court orders, and things of like nature causing delay of the work shall not be counted a working day. The Engineer shall keep a daily record of working conditions and when requested to do so, he/she shall furnish the Contractor within a reasonable time the number of working days that have elapsed. Unless crews are on site prior to 1:00 p.m. of any workday, the Engineer has the right to refuse any work that the Contractor may do. To start work after 1:00 p.m. on a workday, the Contractor must have prior permission from the Engineer. Should this occur, it will be counted as a working day that the Contractor should have worked. It will not be counted as a day of delay. When work is to resume, one (1) day prior notice must be given to the Engineer. That work will begin the next day. There are specific streets that need to be paved on weekends (Saturday and Sunday). Where possible, streets that can be identified, will be marked, streets not marked on Contract, as weekend work, may be added by the Engineer. Advance notice must be given to Contractor, and a date mutually set to pave on that weekend.
49. **Project Time Defined:** Project time shall consist of all calendar days, including weekends and holidays, from the contract notice to proceed date through the specified number of days allowed for the completion of the project in the contract document. The Contractor has been given a project time inclusive of an anticipated amount of bad weather, be it due to the winter months or abnormal rainfall during the remainder of the calendar year.
50. **Guarantee of Work:** The Contractor shall guarantee his work performed under his contract against failures or trouble due to faulty workmanship or materials for a period of twelve (12) months from the date of acceptance of the work.
51. **Force Account Work:** Force account reports shall be submitted to and approved by the Engineer within five (5) days following completion of the work. Failure on the part of the Contractor to submit such a report on time may result in refusal to pay for the work done.

52. **Disposal of Waste Materials from Street and any Other Types of Construction:** Disposal of all waste material from construction sites shall be made in strict accordance with all City ordinances pertaining to disposal of construction waste. It shall be the responsibility of the Contractor to secure the necessary permits and provide all information required to secure said permits. The Contractor shall designate the disposal site prior to beginning construction and in the event waste material is to be disposed of on private property a letter from the property owner shall be furnished the Engineer granting the Contractor or his agent such permission and listing the requirements made by the property owner or the Contractor, if any.
53. **Contractor License:** All invited bidders and contractors shall be advised that those who submit formal bids on this project must be licensed in the State of North Carolina whether he (they) is/are a resident or nonresident of this State, in accordance with GS 87-10 and shall be advised that they must show evidence of a license issued by the North Carolina Licensing Board for General Contractors before the bid is considered. The bidders are advised that Article 37 Subcontractors, of the General Conditions shall be strictly adhered to during the term of this contract.
54. **Emergency Work Crew:** The Contractor and/or the Contractor's subcontractors shall provide an emergency repair crew with adequate trucks and other equipment available when needed to make repairs, clean-up, signing and other work required in connection with this contract. This repair crew shall be on call during non-working hours and during weekends and holidays. The name, address and phone number of at least two responsible members of this crew shall be provided the Engineer or his representatives prior to beginning any work. The members of this crew shall be based, reside, live or stay in within 20 miles of the City Limits of Rocky Mount during the periods that they are on call. Should this "emergency" crew be unavailable for any reason when needed, the City shall have the right to have the required work performed by the quickest means available and the Contractor shall be back-charged at a rate of two (2) times the total cost to the City.
55. **Construction Water:**
- A. Contractors are responsible for securing adequate construction water for their job sites.
  - B. All construction water usage must be metered and will be billed to the Contractor. The Contractor must contact the City of Rocky Mount Water Resources Department to make the applicable arrangements for billing the water usage.
  - C. Contractors must furnish the following information for water usage.
    - a. Meter location and project name.
    - b. Address where applicable and responsible party name.
    - c. Duration of use and frequency of meter reading.
  - D. Contractors observed using unmetered water will be fined by the City of Rocky Mount in accordance with City Code provisions.
56. **Dust Control:** The Contractor shall, as directed by the Engineer provide adequate equipment and use other available means to control the dust during the term of this contract. Failure on the part of the Contractor to correct dust control problems as directed will result in the Engineer notifying the Contractor to comply with the contract provisions. In the event that the Contractor fails to begin such remedial action within 24 hours after receipt of such notice, the Engineer may proceed to have the work performed with other forces. The actual cost of the work so performed along with a 20% administrative fee will be deducted from monies due to the Contractor on his contract. Under adverse conditions, the Engineer may choose to suspend the Contractor's operations on the project until all dust control problems have been completed to his satisfaction. Such suspension will not justify an extension of contract time.
57. **Traffic Control:** All traffic control shall be performed in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).

The contractor shall provide all traffic control devices and signs including Portable Changeable Message Signs (PCMS) in accordance with MUTCD to warn the traveling public. PCMS are required on all streets with four (4) or more marked lanes. PCMS shall be installed at least three (3) days in advance of work and maintained throughout the duration of the work.

Two-way traffic shall be maintained at all times unless otherwise approved by the traffic control plan or Director of Public Works. Total road closures shall not be allowed unless approved by the Director of Public Works.

Any work performed without traffic control per MUTCD, will not be paid for by the Owner.

Traffic Control will be considered incidental to the work unless otherwise specified in the contract documents. For projects that include Traffic Control as a lump sum pay item, payments will be made as a percentage of work completed on a monthly basis.



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**ATTACHMENT E: SUPPLEMENTAL VENDOR INFORMATION**

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**HISTORICALLY UNDERUTILIZED BUSINESSES**

Historically Underutilized Businesses (HUBs) consist of minority, women and disabled business firms that are at least fifty-one percent owned and operated by an individual(s) of the categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled.

Pursuant to G.S. 143B-1361(a), 143-48 and 143-128.4, the State invites and encourages participation in this procurement process by businesses owned by minorities, women, disabled, disabled business enterprises and non-profit work centers for the blind and severely disabled. This includes utilizing subcontractors to perform the required functions in this RFP. Any questions concerning NC HUB certification, contact the [North Carolina Office of Historically Underutilized Businesses](#) at (919) 807-2330. The Vendor shall respond to question #1 and #2 below.

- a) Is Vendor a Historically Underutilized Business? ☐ Yes ☐ No
- b) Is Vendor Certified with North Carolina as a Historically Underutilized Business? ☐ Yes ☐ No

If so, state HUB classification: \_\_\_\_\_

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**CONTRACTOR REGISTRATION**

New vendors must complete a vendor registration form using the link below. If you are a current vendor that has not completed the online vendor registration also complete the form. Once registration is complete email a copy of your W9 and E-Verify Affidavit to the contact person listed on the coversheet.

<https://rockymountnc.gov/services-finance-vendor-registration/>

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**ATTACHMENT F: PROPOSED PRODUCTS FORM**

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No.	Item	Proposed Product(s)	Supplier Names & Addresses
1			
2			
3			
4			
5			

**CERTIFICATION BY PRIME CONTRACTOR:**

Each supplier listed above has established his ability and responsibility to supply the specified materials in accordance with the Contract Documents.

Contractor

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature & Title

Approved: CITY OF ROCKY MOUNT

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Director of Public Works

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**ATTACHMENT G: MWBE FORMS**

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Download the City of Rocky Mount HUB related forms and affidavits by accessing the link below. The forms are under the Business with the City header. <https://rockymountnc.gov/services-finance-vendor-registration/>

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**ATTACHMENT H: PROJECT SPECIAL PROVISIONS**

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The City of Rocky Mount has need for the services of a Licensed Contractor to perform approximately 30 Lane Miles street resurfacing including approximately 4.6 centerline miles of Full Depth Reclamation (FDR). Scope of work also includes but not limited to full depth reconstruction of roadbeds; patching of failed pavement; installation of bituminous concrete overlays; replacement of existing concrete curb/gutter, sidewalk, driveways and handicap ramps; horizontal adjustment of utility manholes and boxes; installation of temporarily and permanent pavement markings. Project is located at various locations throughout the City of Rocky Mount, NC, as listed

The Bidder has carefully examined the location of the proposed work to be known as 320-010922RP; 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 City of Rocky Mount 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. 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 City of Rocky Mount Standard Specifications and 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. Engineer is herein defined as the Director of Public Works or their designee.

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 320-131020CK; in the City of Rocky Mount, 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 the City of Rocky Mount, which proposal, plans, and specifications show the details covering this project, and hereby become a part of this contract.

The City of Rocky Mount Standard Specifications and the published volume entitled North Carolina Department of Transportation, Rocky Mount, 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 City of Rocky Mount Purchasing Manager or such other person as may be designated to sign for the City of Rocky Mount. The conditions and provisions herein cannot be changed except over the signature of the said Purchasing Manager, Finance Director or Director of Public Works.

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 City of Rocky Mount 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.

Contingency Items (CI) will only be paid if directed by the Engineer, Project Manager or Construction Inspector.

**DOCUMENTS:**

The following documents are herein incorporated into the project documents:

- FY23 Street Resurfacing Map,
- Detail Street Resurfacing Schedule and Quantities

In addition to the plans and general specifications contained herein, the following are herein made part of this Scope of Work by reference.

- City of Rocky Mount Standard Details
- City of Rocky Mount Standard Specifications
- NCDOT Standard Specifications for Roads and Bridges, 2018 Edition
- NCDOT Standard Drawings, 2018 Edition

**BOND REQUIREMENTS:**

**Bid Bond.** For projects \$500,000.00 or more this bid shall be a bid bond secured by a corporate surety, or certified check payable to the order of the City of Rocky Mount, 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.as provided in the Standard Specifications; otherwise said deposit will be returned to the Bidder.

**Contract Payment and Performance Bonds are required.** Provide the necessary contract payment bond and contract performance bond within fourteen (14) days after the written notice of award is received

**CONTRACT TIME AND LIQUIDATED DAMAGES:**

Contract time for substantial completion is 150 calendar days from notice to proceed. The period between December 15 through March 6 may be excluded from the contract time for annual plant maintenance and winter weather delays by mutual agreement between the Contractor and the Owner.

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

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

**INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES:**

Except for final/long life pavement markings, the Contractor will be required to complete all work included in this contract and shall place and maintain traffic on same.

The completion date for this intermediate contract time is 120 calendar days from Notice to Proceed. The period between December 15 through March 6 may be excluded from the contract time for annual plant maintenance and winter weather delays by mutual agreement between the Contractor and the Owner.

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

**HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS**

1. For **unexpected occurrence** that creates unusually high traffic volumes, as directed by the Engineer.
2. For **New Year's Day**, between the hours of **6:00pm** December 31st and **7:00am** January 2nd. If New Year's Day is on a Friday, Saturday, Sunday or Monday, then until **7:00am** the following Tuesday.
3. For **Easter**, between the hours of **6:00pm** Thursday and **7:00am** Monday.
4. For **Memorial Day**, between the hours of **6:00pm** Friday and **7:00am** Tuesday.
5. For **Independence Day**, between the hours of **6:00pm** the day before Independence Day and **7:00am** the day after Independence Day.

If **Independence Day** is on a Friday, Saturday, Sunday or Monday, then between the hours of **6:00pm** the Thursday before Independence Day and **7:00am** the Tuesday after Independence Day.

6. For **Labor Day**, between the hours of **6:00pm** Friday and **7:00am** Tuesday.
7. For **Thanksgiving Day**, between the hours of **6:00pm** Wednesday and **7:00am** Monday.
8. For **Christmas**, between the hours of **6:00pm** the Friday before the week of Christmas Day and **7:00am** the following Tuesday after the week of Christmas Day.

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

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

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

The liquidated damages are **One Hundred Dollars (\$100.00)** per hour.

**PROSECUTION OF WORK:**

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

In the event that the Contractor's operations are suspended in violation of the above provisions, the sum of \$1000.00 will be charged the Contractor for each and every calendar day that such suspension takes place. The said amount is hereby agreed upon as liquidated damages due to extra engineering and maintenance costs and due to increased public hazard resulting from a suspension of the work.

**CONTRACT COMPLETION AND PROGRESS SCHEDULE LIQUIDATED DAMAGES**

The progress schedule will be evaluated and assessed on a monthly basis at the time of each partial payment request based on the Contractor's progress in comparison with the approved progress schedule. For each calendar day in excess of the approved monthly progress schedule, the Contractor shall have withheld monies due, a sum of FIVE HUNDRED DOLLARS (\$ 500.00) per day.

Formula for Calculating Liquidated Damages

A = Number of streets scheduled for completion accumulatively by month.

B = Days in month(s).

C = Number of streets scheduled for completion per day.

D = Number of streets scheduled for completion minus number of streets actually completed to date.

E = Number of days behind.

F = \$500.00 liquidated damages per day.

G = Liquidated damages monthly total.

$A / B = C$   $D / C = E$   $E \times F = G$

**RAILROAD GRADE CROSSING:**

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

**NO MAJOR CONTRACT ITEMS:**

None of the items included in this contract will be major items.

**NO SPECIALTY ITEMS:**

None of the items included in this contract will be specialty items (see Article 108-6 of the 2018 Standard Specifications).

**TWELVE MONTH GUARANTEE:**

(7-15-03)

108

SP1 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 City of Rocky Mount. The Contractor will not be responsible for damage due to faulty design, normal wear and tear, for negligence on the part of the City of Rocky Mount, 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 City of Rocky Mount'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. the City of Rocky Mount 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 City of Rocky Mount 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.

### **MOBILIZATION**

The work covered for mobilization consists of preparatory work and operations, including but not limited to those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings, and other facilities necessary for work on the project; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various items on the project site.

All work covered by this section shall not be measured but shall be paid for at the lump sum contract price for mobilization. A lump sum payment up to three percent (3%) of the total bid price (to include all bonds, insurance, move-on expenses, etc.) will be allowed for 'mobilization' as a progress payment line item. Up to half of the cost for mobilization will be considered in the initial payment request provided that cost documentation suitable to the ENGINEER is furnished by the CONTRACTOR. Any outstanding balance of mobilization line item will be payable when the Project Work is ten percent (10%) complete as indicated by the approved progress payments.

### **CONSTRUCTION PROGRESS SCHEDULE AND BI-WEEKLY MEETINGS**

The Contractor shall provide, at the pre-construction conference, a completed progress schedule. The schedule shall be kept up to date and presented with each month's billing information and shall be made available at the bi-weekly progress meetings and at other times as may be deemed necessary by the Engineer or his representative. The Contractor will be represented at bi-weekly progress meetings during the construction of this project. The meetings will be held at the project site or in the City offices as determined by the City.

### **UNIT BID PRICE**

The unit bid price on the items in this contract shall include all materials, labor, equipment, and incidentals necessary to satisfactorily install said items completely in place and accepted unless otherwise mentioned in this contract document.

### **POINT OF CONTACT**

The Contractor upon start of construction shall provide the Engineer with names, addresses, and telephone numbers of two people to be contacted after office hours in case of emergency.

### **MATERIAL TICKETS**

The Contractor shall turn in all material tickets for the purpose of payment to the Project Inspector on a daily basis.

### **TRENCHES**

All trenches shall be back-filled and made safe at the end of each workday. Payment for installation of utility and drainage lines that requires open cut to existing pavement shall include the cost of pavement for repairs (including pavement saw cut and removal) as incidental to the installation of the utility. No separate payment will be made for this work unless otherwise specifically mentioned in this contract.



**SUBSURFACE INVESTIGATION**

The Contractor shall make his/her own subsurface investigations. Any information obtained by the City as a result of its own subsurface investigations will be made available upon request. This information is provided for informational purposes only and shall not relieve the Contractor of responsibility for making his own investigations.

**CONSTRUCTION STAKING**

The contractor shall furnish all survey and construction staking for this project.

The Engineer will set sufficient points to establish alignment and grade. The Contractor shall be responsible for preserving all stakes and marks.

**GRADING, SHOULDERS AND SLOPES**

Shoulders and slopes shall be free of all stone and clods that exceed one inch in diameter. Fine grading (raking) shall take place just before seeding and mulching. No separate payment will be made for shoulder construction or material for shoulder construction as all work necessary to complete the work will be considered incidental to other items in the contract unless otherwise provided in the contract.

**TRAFFIC CONTROL**

The Contractor shall provide all traffic control devices and signs to warn the traveling public in accordance with the latest Manual on Uniform Traffic Control Devices (MUTCD). Two-way traffic shall be maintained at all times, unless otherwise required by the traffic control plan.

**MATERIALS AND EQUIPMENT STORAGE AND PARKING**

When vehicles, equipment, and materials are not being actively used they shall be moved at least 30 feet away from the edge of any travel way open to traffic (or as directed by the Engineer). All debris shall be immediately moved to a location at least 30 feet from the edge of any travel way open to traffic. If vehicles, equipment, materials, and debris are protected by guardrail or barrier, a 5-foot minimum offset from the rail shall be used.

**PERSONNEL PARKING**

All personnel involved with construction operations shall not park their personal vehicles within the right-of-way of the project limits for the duration of the construction project. The Contractor shall furnish a parking area that is located off the project limits. The Contractor shall be responsible for daily transportation of all employees to and from the provided parking area and the project site. There will be no direct payment for the work cover by this provision. Payment at the contract unit prices for the various items in the contract will be full compensation for all work covered by this provision.

**SIDEWALK, DRIVEWAY, CURB & GUTTER REMOVAL AND REPLACEMENT**

Care should be taken during construction to avoid damaging the existing sidewalk, curb & gutter and pavement outside the immediate construction area. If damaged, it shall be replaced in accordance with the NCDOT Standard Specifications for Roads and Structures/City of Rocky Mount Standards, as determined by the Engineer, without extra cost to the City. Prior to construction, the Contractor shall inspect the site and report to the Engineer any

damages existing before construction. The Contractor shall be advised that when a portion of any area of concrete driveways, curb and gutter and pavement must be removed, all areas to be removed shall be defined by a machine-sawed joint, prior to removal. Saw cut of concrete driveway, curb & gutter and pavement are considered incidental to removal unless otherwise provided in the contract.

#### **MAINTENANCE OF MAIL BOXES, SIGNS, MISCELLANEOUS APPURTENANCES**

The Contractor shall be required to maintain mailboxes, signs and all miscellaneous appurtenances impacted by construction activities in working order for the duration of construction as directed by the Engineer. Work on the same items shall be done in a timely manner. No separate payment for work on these items will be made as the work will be considered incidental to other items in the contract unless otherwise mentioned in the contract document.

#### **PROJECT COMPLETION**

When the project is nearing completion, the City will obtain comments from the impacted property owners concerning items that are outstanding, yet to be completed. The Engineer will determine which items have sufficient justification to be included in the final punch-list, and the Contractor will be required to complete these items with no additional payment and in a timely fashion.

#### **VIDEOTAPE OF PROJECT SITE**

The Contractor will videotape the project site in its entirety before construction begins, with emphasis on properties adjoining the project, drives, trees, appurtenances and other distinguishing features. Appropriate narration will include location and description of property and physical features. The Contractor will provide two copies of the project tape in electronic format to the City. No separate payment will be made for this work, and all associated costs will be considered incidental to other items in the contract.

#### **COORDINATION WITH UTILITY COMPANIES**

Utilities as shown on the plans are intended to represent general locations only. It shall be the responsibility of the Contractor, prior to construction, to contact appropriate utility owners and precisely locate utilities that could be affected by the proposed construction. If the utility belongs to the City, the Contractor shall dig sample holes to uncover the utility. The digging of sample holes shall be coordinated with the Engineer who will determine the number of such holes and will schedule the City Surveyor to locate utility vertical and horizontal locations. There is no line item to pay for digging work. Work is considered incidental to other pay items.

The Contractor shall be responsible for repair of any damage to the utility as well as any other damage may be caused due to the disturbance of the utility. The Contractor will not be permitted to submit any claims for delays caused by utility relocation and proposed utility construction. The City has coordinated designs of utility relocation with private utility owner representatives

The Contractor shall call North Carolina One Call to identify underground utilities before starting any digging and/or excavation operation. The Contractor shall be responsible for field verifying heights and locations of power lines and will be required to maintain the distance from the power lines in accordance with local, State and Federal Safety regulations.

## PROTECTION OF EXISTING PLANTS

The work under this item shall consist of the protection of selected trees, shrubs, or other woody plants.

The plants protective fencing encompass the plants to the drip-line. Deviations from this must be approved by the Engineer.

Plant protective fencing shall be installed prior to beginning any construction on this project. Plant protective fencing shall be constructed at the locations as directed by the Engineer and in accordance with City specification. The fencing shall be maintained in place until all construction operations in that particular area are complete. At completion, only light grading equipment such as small agricultural tractors shall be allowed on the plants' roots. Fill dirt no deeper than two inches shall be allowed under the limb spread of any plant.

No building materials, dirt, or equipment shall be stored inside the protective fencing. Plants that die as a result of the Contractor's negligence shall be removed and replaced as directed by the Engineer at the Contractor's expenses. The new plant shall be guaranteed for a year, planted in the proper season, and planted with approved arboricultural specifications.

The Contractor will be required to cooperate with other contractors, utility companies and others needing access to the project site as (approved by the engineer) to complete the work.

## PAVING OPERATIONS:

### 1) Paving Lift Requirements and Time Limitations:

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

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

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

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

### 2) Asphalt Surface Treatments (AST)

For AST Operations, there's no drop-off condition to be signed. Stationary "LOOSE GRAVEL" and "UNMARKED PAVEMENT" signs shall replace "LOW/SOFT SHOULDER" signs. For placement and spacing of these signs, see

the Signing Detail Sheet. All other advance warning signs are to be portable mounted. These signs are considered incidental to the work.

### **3) Fine Milling (Depths less than 1")**

For fine milling operations less than 1", paving is not required in the same work period. The paving of the fine milled area is to be conducted within the next work period and not to exceed 72 hours. No advance warning signs are necessary for these conditions unless the paving operations exceed 72 hours. If this occurs, install portable "UNMARKED PAVEMENT" signs. These signs are considered incidental to the work.

### **4) Shoulder Drop-Off Requirements**

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

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

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

## **PROJECT REQUIREMENTS:**

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

1. Before working on arterial street, the Contractor shall submit a written construction sequence for traffic control and construction lighting to the Engineer at the first pre-construction meeting and the sequence must be approved before closing a lane of traffic. The Contractor and Engineer will coordinate with the City for additional traffic control guidance, as necessary.
2. Obtain written approval of the Engineer before working in more than one location or setting up additional lane closures. The maximum length of any one lane closure is 1 mile unless otherwise directed by the Engineer.
3. If Lane Closure Restrictions apply, see Special Provision, "Intermediate Contract Times and Liquidated Damages".
4. Contractor shall mill and pave lanes in an order such that water shall not accumulate.
5. If milled areas are not paved back within 72 hours, the Contractor is to furnish and install portable signs to warn drivers of the conditions. These are to include, but not limited to "Rough Road" (W8-8), "Uneven Lanes" (W8-11), and "Grooved Pavement" (W8-15) w/ Motorcycle Plaque mounted below. These are to be dual indicated on Multi-Lane Roadways with speed limits 45 mph and greater where lateral clearance can be obtained within the median areas. These portable signs are considered incidental to the work.

## **FINISH PATCHING**

Scope of work for this contract includes finish patching on streets scheduled to receive additional treatment under a future contract. Payment for patching on these streets shall be made under "Patching Existing Pavement."

## **FULL DEPTH RECLAMATION OPERATIONS**

Subgrade and FDR testing will be by owner.

Full depth reclamation sections may be closed to all traffic during construction operations and through traffic during curing period. Work shall be phased to minimize business interruptions and access restrictions to local residents. Full depth reclamation sections shall be closed to through traffic and truck traffic for a time sufficient to allow proper curing of the base. Access for local resident shall restored as soon as base has reached sufficient strength to support a passenger vehicle.

Pulverizing of base material and mixing of cement with pulverized base may be done in a single pass provided excess material to be removed from project site can be properly disposed of or stockpiled for later use. The owner will provide a stockpile location for excess FDR material.

No geotechnical reports have been prepared for this project. FDR milling depths, cement ratios and pavement thickness in street schedule are estimated based on previous investigations for bidding purposes. Geotechnical consultant has been retained to determine actual section requirements and will provide quality control monitoring on the FDR street sections. Actual cement ratio required will be determined in the field by the geotechnical engineer based on the condition of the milled material.

#### **FURNISHING AND INSTALLATION OF INDUCTIVE DETECTION SIGNAL LOOPS (BY OWNER)**

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

Contractor shall assist owner in coordinating timely replacement of each inductive loop installation by providing least 14 days in advance notice of schedule to disturb an existing inductive loop.

#### **DIVISION 02 EARTHWORK**

##### **BURNING RESTRICTIONS:**

(7-1-95)

200, 210, 215

SP2 R05

Open burning is not permitted on any portion of the right-of-way limits established for this project. Do not burn the clearing, grubbing or demolition debris designated for disposal and generated from the project at locations within the project limits, off the project limits or at any waste or borrow sites in this county. Dispose of the clearing, grubbing and demolition debris by means other than burning, according to state or local rules and regulations.

##### **UNDERCUT EXCAVATION**

Item has been provided as contingency items should it be needed. Undercut unit price shall include removal of existing material and installation/compaction of approved structural fill or aggregate base course. Quantity of undercut shall be cubic yards as measured in place.

##### **BORROW EXCAVATION (Truck Measurement):**

(7-1-95)

230

SP2 R57

The borrow material used on this project will be measured for payment by truck measurement as provided in Article 230-5 of the *2018 Standard Specifications*.

#### **DIVISION 05 – SUBGRADE, BASES AND SHOULDERS**

**SHOULDER RECONSTRUCTION PER SHOULDER MILE:**

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

560

SP1 R07FR

**DESCRIPTION**

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

**MATERIALS**

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

**CONSTRUCTION METHODS**

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

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

**MEASUREMENT AND PAYMENT**

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

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

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

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

Payment will be made under:

**Pay Item**

Shoulder Reconstruction

Borrow Excavation

**Pay Unit**

Shoulder Mile

Cubic Yard

**SOIL-CEMENT BASE (FULL DEPTH RECLAMATION):**

(11-19-13)

542

SP5 R20

Revise the 2018 *Standard Specifications* as follows:

**Page 5-19, Article 542-1 DESCRIPTION, line 25**, add “existing asphalt pavement,” after “treating the”.

**Page 5-19, Article 542-1 DESCRIPTION**, add the following:

Define “full depth reclamation” (FDR) as a type of soil-cement base that includes treating the existing flexible pavement section consisting of asphalt pavement and base course.

**Page 5-20, Subarticle 542-4(E) Compaction Equipment**, add the following:

Use vibratory sheepsfoot, vibratory smooth drum and pneumatic tire rollers for FDR.

**Page 5-20, Article 542-4 EQUIPMENT**, add the following:

**(G) FDR Equipment**

An asphalt reclaimer and motor grader equipped with a cross slope indicator are required for FDR. Use a self-propelled reclaimer with at least 400 horsepower (hp), a cutter depth of at least 12", a cutter width of at least 8 ft and a metered water additive system with a full width spray bar. Use a water truck with flow rate control to add water directly to the asphalt reclaimer. Submit details of the FDR equipment to the Engineer for acceptance at least 5 days before mobilizing equipment to the site.

**Page 5-21, Article 542-6 SCARIFYING**, add the following:

For FDR, pulverize existing asphalt pavement with an asphalt reclaimer to the required depth and maintain moisture content at or below optimum as determined by the Engineer.

**Page 5-21, Article 542-7 APPLICATION OF CEMENT, lines 25-27**, delete the first two sentences of the sixth paragraph and replace with the following:

Apply cement to sections sized so soil-cement base is completed within the traffic control requirements. Complete finishing soil-cement base within 4 hours of adding water to the soil-cement mix except complete FDR within 3 hours of pulverizing existing asphalt pavement. If a road remains open for FDR, pulverize pavement in sections sized so FDR is completed within the same working day.

**Page 5-21, Article 542-8 MIXING, line 32**, add “Except for FDR, ” before “Mixing will” and the following:

Mixing will be sufficient for FDR when 100% of the mixture passes a 2" sieve and at least 50% passes a No. 4 sieve, exclusive of any aggregate.

**Page 5-21, Article 542-8 MIXING, line 35**, add “Except for FDR and ” before “Immediately after” and the following:

During final mixing and compaction for FDR, maintain moisture content between optimum and optimum plus 1.5% as determined by the Engineer.

**Page 5-22, Article 542-12 CURING, line 28**, add “Except for FDR and ” before “After the”.

**Page 5-23, Article 542-16 Measurement and Payment**, add the following pay item:

**Pay Item**

*Soil Cement Base (Full Depth Reclamation)*

Square Yard

**SHOULDER RECONSTRUCTION PROCEDURE:**



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

560

SP1 R10BR

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

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

**DIVISION 06 – ASPHALT PAVEMENTS****PRICE ADJUSTMENT -ASPHALT BINDER FOR PLANT MIX:**

(11-21-00) 620 SP6 R25

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

The base price index for asphalt binder for plant mix is **\$404.64** per ton. This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on **October 1, 2020**.

**ASPHALT BINDER CONTENT OF ASPHALT PLANT MIXES**

The approximate asphalt binder content of the asphalt concrete plant mixtures used on this project will be as follows:

- Asphalt Concrete Surface Course, Type S9.5A 6.7%
- Asphalt Concrete Surface Course, Type S9.5B 6.0%
- Asphalt Concrete Intermediate Course, Type I19.0C 4.8%
- Asphalt Concrete Base Course, Type B25.0C 4.4%

The actual asphalt binder content will be established during construction by the Engineer within the limits established in the NCDOT Standard Specifications or Project Special Provisions.

**FINAL SURFACE TESTING NOT REQUIRED:**

(5-18-04) (Rev. 2-16-16) 610 SP6 R45

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

**MILLING ASPHALT PAVEMENT:**

(1-15-19) 607 SP6 R59

Revise the 2018 Standard Specifications as follows:

**Page 6-5, Article 607-2, EQUIPMENT**, lines 14-16, delete the seventh sentence of this Article and replace with the following:

Use either a non-contacting laser or sonar type ski system with a minimum of three referencing stations mounted on the milling machine at a length of at least 24 feet.

**OPEN GRADED ASPHALT FRICTION COURSE, PERMEABLE ASPHALT DRAINAGE COURSE, AND ULTRA-THIN BONDED WEARING COURSE:**



(4-17-12)(Rev. 12-15-15) 609, 610 SP6 R62

When producing and constructing open graded asphalt friction course, permeable asphalt drainage course, and ultra-thin bonded wearing course revise the 2018 Standard Specifications as follows:

**Page 6-9, Subarticle 609-6(B) Required Sampling and Testing Frequencies**, delete the third paragraph and replace with the following:

Sample and test the completed mixture from each mix design per plant per year at the following minimum frequency during mix production:

<u>Accumulative Production Increment</u>	<u>Number of Samples per Increment</u>
500 tons	1

**Page 6-9, Subarticle 609-6(C) Control Charts**, delete the second paragraph and replace with the following:

Record the following data on the standardized control charts and in accordance with the requirements of Section 7.4 of the Asphalt QMS Manual:

- (a) Aggregate Gradation Test Results:
1. 12.5 mm (Types P57 & FC-2 Mod. Only)
  2. 9.5 mm (Excluding Type P57)
  3. 4.75 mm
  4. 2.36 mm
  5. 0.075 mm Sieves

(b) Binder Content, %, Pb

**Page 6-10, Subarticle 609-6(D) Control Limits, Table 609-1 CONTROL LIMITS**, replace with the following:

Mix Control Criteria	Target Source	Moving Average Limit	Individual Limit
12.5 mm Sieve (Types P57 & FC-2 Mod)	JMF	±4.0	±8.0
9.5 mm Sieve (Excluding Type P57)	JMF	±4.0	±8.0
4.75 mm Sieve	JMF	±4.0	±8.0
2.36 mm Sieve	JMF	±4.0	±8.0
0.075 mm Sieve	JMF	±1.5	±2.5
Binder Content	JMF	±0.3	±0.7
TSR (Ultra-thin Only)	Min. Spec. Limit	-	- 15%

**Page 6-14, Article 609-9 QUALITY ASSURANCE, Table 609-3 LIMITS OF PRECISION FOR TEST RESULTS**, replace with the following:

TABLE 609-2 RETEST LIMITS FOR MIX DEFICIENCIES	
Property	Limit
% Binder Content	by more than $\pm 1.0\%$
12.5 mm Sieve (Types P 57 & FC-2 Mod)	by more than $\pm 9.0\%$
9.5 mm Sieve (Excluding Type P 57)	by more than $\pm 9.0\%$
4.75 mm sieve	by more than $\pm 9.0\%$
2.36 mm sieve	by more than $\pm 9.0\%$
0.075 mm sieve	by more than $\pm 3.0\%$
TSR (Ultra-thin only)	by more than -1.5% from Specification limit

Page 6-12, Subarticle 609-6(F) Allowable Retesting for Mix Deficiencies, Table 609-2 RETEST LIMITS FOR MIX DEFICIENCIES, replace with the following:

<b>TABLE 609-3 LIMITS OF PRECISION FOR TEST RESULTS</b>	
<b>Mix Property</b>	<b>Limits of Precision</b>
12.5 mm Sieve (Types P 57 & FC-2 Mod. Only)	± 6.0%
9.5 mm Sieve (Excluding Type P 57)	± 5.0%
4.75 mm Sieve	± 5.0%
2.36 mm Sieve	± 5.0%
0.075 mm Sieve	± 2.0%
Asphalt Binder Content	± 0.5%
TSR (Ultra-thin HMA Only)	± 15.0%

Page 6-16, Article 610-3, COMPOSITION OF MIXTURES (MIX DESIGN AND JOB MIX FORMULA), line 30, add the following at the end of the sixth paragraph:

For OGAF C, the maximum percent of binder contributed from RAS or a combination of RAS and RAP is 18%.

**ASPHALT CONCRETE PLANT MIX PAVEMENTS:**

(2-20-18) (Rev. 1-15-19)

610, 1012

SP6 R65

Revise the 2018 Standard Specifications as follows:

Page 6-14, Table 609-3, LIMITS OF PRECISION FOR TEST RESULTS, replace with the following:

<b>TABLE 609-3 LIMITS OF PRECISION FOR TEST RESULTS</b>	
<b>Mix Property</b>	<b>Limits of Precision</b>
25.0 mm sieve (Base Mix)	± 10.0%
19.0 mm sieve (Base Mix)	± 10.0%
12.5 mm sieve (Intermediate & Type P-57)	± 6.0%
9.5 mm sieve (Surface Mix)	± 5.0%
4.75 mm sieve (Surface Mix)	± 5.0%
2.36 mm sieve (All Mixes, except S4.75A)	± 5.0%
1.18 mm sieve (S4.75A)	± 5.0%
0.075 mm sieve (All Mixes)	± 2.0%
Asphalt Binder Content	± 0.5%
Maximum Specific Gravity ( $G_{mm}$ )	± 0.020
Bulk Specific Gravity ( $G_{mb}$ )	± 0.030
TSR	± 15.0%
QA retest of prepared QC Gyratory Compacted Volumetric Specimens	± 0.015

Retest of QC Core Sample	± 1.2% (% Compaction)
Comparison QA Core Sample	± 2.0% (% Compaction)
QA Verification Core Sample	± 2.0% (% Compaction)
Density Gauge Comparison of QC Test	± 2.0% (% Compaction)
QA Density Gauge Verification Test	± 2.0% (% Compaction)

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

TABLE 610-1 MIXING TEMPERATURE AT THE ASPHALT PLANT	
Binder Grade	JMF Temperature
PG 58-28; PG 64-22	250 - 290°F
PG 76-22	300 - 325°F

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

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

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

TABLE 610-3 MIX DESIGN CRITERIA									
Mix Type	Design ESALs millions A	Binder PG Grade	Compaction Levels		Max. Rut Depth (mm)	Volumetric Properties <sup>B</sup>			
			G <sub>mm</sub> @			VMA	VTM	VFA	%G <sub>mm</sub>
			N <sub>ini</sub>	N <sub>des</sub>		% Min.	%	Min.-Max.	@ N <sub>ini</sub>
S4.75A	< 1	64 - 22	6	50	11.5	16.0	4.0 - 6.0	65 - 80	≤ 91.5
S9.5B	0 - 3	64 - 22	6	50	9.5	16.0	3.0 - 5.0	70 - 80	≤ 91.5
S9.5C	3 - 30	64 - 22	7	65	6.5	15.5	3.0 - 5.0	65 - 78	≤ 90.5
S9.5D	> 30	76 - 22	8	100	4.5	15.5	3.0 - 5.0	65 - 78	≤ 90.0
I19.0C	ALL	64 - 22	7	65	-	13.5	3.0 - 5.0	65 - 78	≤ 90.5
B25.0C	ALL	64 - 22	7	65	-	12.5	3.0 - 5.0	65 - 78	≤ 90.5
	Design Parameter					Design Criteria			
All Mix Types	Dust to Binder Ratio (P <sub>0.075</sub> / P <sub>be</sub> )					0.6 - 1.4 <sup>C</sup>			
	Tensile Strength Ratio (TSR) <sup>D</sup>					85% Min. <sup>E</sup>			

A. Based on 20 year design traffic.

B. Volumetric Properties based on specimens compacted to N<sub>des</sub> as modified by the Department.

C. Dust to Binder Ratio (P<sub>0.075</sub> / P<sub>be</sub>) for Type S4.75A is 1.0 - 2.0.

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

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

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

**TABLE 610-5  
BINDER GRADE REQUIREMENTS (BASED ON RBR%)**

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

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

**B.** Maximum Recycled Binder Replacement (%RBR) is 18% for mixes using PG 76-22 binder.

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

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

**A.** For the final layer of surface mixes containing recycled asphalt shingles (RAS), the minimum surface and air temperature shall be 50°F.

**Page 6-21, Article 610-8, SPREADING AND FINISHING, lines 34-35**, delete the second sentence and replace with the following:

Use an MTV for all surface mix regardless of binder grade on Interstate, US Routes, and NC Routes (primary routes) that have 4 or more lanes and median divided.

**Page 6-21, Article 610-8, SPREADING AND FINISHING, lines 36-38**, delete the fourth sentence and replace with the following:

Use MTV for all ramps, loops, Y-line that have 4 or more lanes and are median divided, full width acceleration lanes, full width deceleration lanes, and full width turn lanes that are greater than 1000 feet in length.

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

TABLE 610-7 DENSITY REQUIREMENTS	
Mix Type	Minimum % G <sub>mm</sub> (Maximum Specific Gravity)
S4.75A	85.0 <sup>A</sup>
S9.5B	90.0
S9.5C, S9.5D, I19.0C, B25.0C	92.0

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

**Page 6-24, Article 610-13, FINAL SURFACE TESTING, lines 35-36**, delete the second sentence and replace with the following:

Final surface testing is not required on ramps, loops and turn lanes.

**Page 6-26, Subarticle 610-13(A)(1), Acceptance for New Construction, lines 29-30,** delete the second sentence and replace with the following:

Areas excluded from testing by the profiler may be tested using a 10-foot straightedge in accordance with Article 610-12.

**Page 6-27, Subarticle 610-13(B), Option 2- North Carolina Hearne Straightedge, lines 41-46,** delete the eighth and ninth sentence of this paragraph and replace with the following:

Take profiles over the entire length of the final surface travel lane pavement exclusive of structures, approach slabs, paved shoulders, tapers, or other irregular shaped areas of pavement, unless otherwise approved by the Engineer. Test in accordance with this provision all mainline travel lanes, full width acceleration or deceleration lanes and collector lanes.

**Page 6-28, Subarticle 610-13(B), Option 2- North Carolina Hearne Straightedge, lines 1-2,** delete these two lines.

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

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

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

**TABLE 1012-1  
AGGREGATE CONSENSUS PROPERTIES<sup>A</sup>**

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

- A. Requirements apply to the design aggregate blend.
- B. 95 / 90 denotes that 95% of the coarse aggregate has one fractured face and 90% has 2 or more fractured faces.

**PAVING INTERSECTIONS:**

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

610

SP6 R67BR

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

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

Widen the pavement on curves as directed by the Engineer.

**PAVING DRIVEWAYS AND MAILBOX TURNOUTS:**

(8-21-12)

610

SP6 R70BR

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

**DIVISION 11 – WORK ZONE TRAFFIC CONTROL****WORK ZONE TRAFFIC CONTROL GENERAL REQUIREMENTS****TRAFFIC CONTROL:**

All traffic control shall be performed in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).

The contractor shall provide all traffic control devices and signs including Portable Changeable Message Signs (PCMS) in accordance with MUTCD to warn the traveling public. PCMS are required on all streets with four (4) or more marked lanes. PCMS shall be installed at least three (3) days in advance of work and maintained throughout the duration of the work.

Two-way traffic shall be maintained at all times unless otherwise approved by the City. Total road closures shall not be allowed except as approved by the City.

Any work performed without traffic control per MUTCD, will not be paid for by the Owner.

The Traffic Control shall be considered incidental to the work.

**ROAD CLOSURES, NOTICE AND MAINTENANCE OF TRAFFIC**

Temporary Road closures proposed by the Contractor must be approved by the Engineer in advance. Approved Road closures will be set up and maintained by the contractor. Any detours required by the temporary closure will set up and maintained by the Owner. Contractor shall coordinate all road closures and detours with the Owner at least 72 hours in advance of closure.



Where construction operations are to take place under traffic, the Contractor shall maintain at least one lane of traffic at all times and shall provide serviceable access to all business and dwelling units in the project area. The Contractor shall provide such flagmen as are necessary to temporarily control traffic in the project area and is solely responsible for erection and maintenance of traffic control devices and barricades. All traffic control shall be in accordance with the MUTCD.

Where construction operations will impact parking on public ROW, Contractor shall notify area residents and business of need to move vehicles by door hanger. Notice of work must be provided at least 24 hours but no more than 2 weeks in advance of starting operations and shall include a contact number for the Contractor. In the event resurfacing is scheduled for a weekend or holiday, the notices and signs shall be distributed a minimum of 72 hours prior to the resurfacing. Any vehicles remaining on the street or public ROW after proper notification will be towed by the Owner.

The CONTRACTOR shall post "No Parking" signs at least 3 feet above ground in conspicuous places facing traffic a minimum of 24 HOURS prior to actual resurfacing with a maximum spacing of 100' of center required.

The time of day that No Parking signs and Notices of Work are posted should be recorded along with the license numbers of cars parked on the street at that time and a copy made available for the ENGINEER if towing is necessary.

Where roadway closures have been approved by the City, Contractor shall provide notice of temporary road closures local residents and business by door hanger at least 48 hours in advance. Contractor shall make individual contact with impacted businesses to coordinate maintenance of access when temporary closures will exceed 24 hours. Reasonable access shall be provided for local residents and business throughout the closure period.

Access to driveways may be restricted until concrete has achieved sufficient strength to support the anticipated traffic load. However, Contractor must maintain reasonable access to the property. Contractor shall notify residents and business of restricted driveway access at least 24 hours in advance.

## **MEASUREMENT AND PAYMENT**

No direct payment will be made for furnishing and installing necessary traffic control in accordance with the project plans and/or MUTCD. Installation and maintenance of adequate traffic control measures will be considered incidental to other work being paid for by the various items in the contract.

## **DIVISION 16 – EROSION CONTROL AND Roadside DEVELOPMENT**

### **EROSION AND STORMWATER CONTROL FOR SHOULDER CONSTRUCTION AND RECONSTRUCTION:**

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

105-16, 225-2, Division 16

SP16 R03R

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

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

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

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

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

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

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

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

### **Stabilization Requirements:**

(5-1-15)

S-2

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

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

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

### **SEEDING AND MULCHING:**

**(East Crimp)**

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

All Roadway Areas

#### **March 1 - August 31**

50#	Tall Fescue
10#	Centipede
25#	Bermudagrass (hulled)
500#	Fertilizer
4000#	Limestone

#### **September 1 - February 28**

50#	Tall Fescue
10#	Centipede
35#	Bermudagrass (unhulled)
500#	Fertilizer
4000#	Limestone

## Waste and Borrow Locations

**March 1 – August 31**

75# Tall Fescue  
 25# Bermudagrass (hulled)  
 500# Fertilizer  
 4000# Limestone

**September 1 - February 28**

75# Tall Fescue  
 35# Bermudagrass (unhulled)  
 500# Fertilizer  
 4000# Limestone

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

## Approved Tall Fescue Cultivars

06 Dust	Escalade	Justice	Scorpion
2 <sup>nd</sup> Millennium	Essential	Kalahari	Serengeti
3 <sup>rd</sup> Millennium	Evergreen 2	Kentucky 31*	Shelby
Apache III	Falcon IV	Kitty Hawk 2000	Sheridan
Avenger	Falcon NG	Legitimate	Signia
Barlexas	Falcon V	Lexington	Silver Hawk
Barlexas II	Faith	LSD	Sliverstar
Bar Fa	Fat Cat	Magellan	Shenandoah Elite
Barrera	Festnova	Matador	Sidewinder
Barrington	Fidelity	Millennium SRP	Skyline
Barrobusto	Finelawn Elite	Monet	Solara
Barvado	Finelawn Xpress	Mustang 4	Southern Choice II
Biltmore	Finesse II	Ninja 2	Speedway
Bingo	Firebird	Ol' Glory	Spyder LS
Bizem	Firecracker LS	Olympic Gold	Sunset Gold
Blackwatch	Firenza	Padre	Taccoa
Blade Runner II	Five Point	Patagonia	Tanzania
Bonsai	Focus	Pedigree	Trio
Braveheart	Forte	Picasso	Tahoe II
Bravo	Garrison	Piedmont	Talladega
Bullseye	Gazelle II	Plantation	Tarheel
Cannavaro	Gold Medallion	Proseeds 5301	Terrano
Catalyst	Grande 3	Prospect	Titan Ltd
Cayenne	Greenbrooks	Pure Gold	Titanium LS
Cessane Rz	Greenkeeper	Quest	Tracer
Chipper	Gremlin	Raptor II	Traverse SRP
Cochise IV	Greystone	Rebel Exeda	Tulsa Time
Constitution	Guardian 21	Rebel Sentry	Turbo
Corgi	Guardian 41	Rebel IV	Turbo RZ
Corona	Hemi	Regiment II	Tuxedo RZ
Coyote	Honky Tonk	Regenerate	Ultimate
Darlington	Hot Rod	Rendition	Venture

Davinci	Hunter	Rhambler 2 SRP	Umbrella
Desire	Inferno	Rembrandt	Van Gogh
Dominion	Innovator	Reunion	Watchdog
Dynamic	Integrity	Riverside	Wolfpack II
Dynasty	Jaguar 3	RNP	Xtremegreen
Endeavor	Jamboree	Rocket	

**\*Note: Kentucky 31 will no longer be an approved NCDOT Tall Fescue Cultivar after December 31, 2015.**

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

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

All areas seeded and mulched shall be tacked with asphalt. Crimping of straw in lieu of asphalt tack shall not be allowed on this project.

**CRIMPING STRAW MULCH:**

Crimping shall be required on this project adjacent to any section of roadway where traffic is to be maintained or allowed during construction. In areas within six feet of the edge of pavement, straw is to be applied and then crimped. After the crimping operation is complete, an additional application of straw shall be applied and immediately tacked with a sufficient amount of undiluted emulsified asphalt.

Straw mulch shall be of sufficient length and quality to withstand the crimping operation.

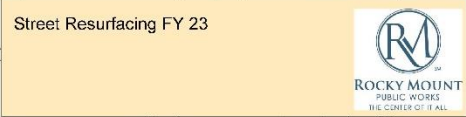
Crimping equipment including power source shall be subject to the approval of the Engineer providing that maximum spacing of crimper blades shall not exceed 8".

**ATTACHMENT I: PROJECT MAP**

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The following image is uploaded to the project bid file on the purchasing webpage in PDF form.

<http://www.rockymountnc.gov/services-finance-bids/>



**ATTACHMENT J: STREET SCHEDULE**

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The street schedule is uploaded to the project bid file on the purchasing webpage in PDF form.

<http://www.rockymountnc.gov/services-finance-bids/>

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**ATTACHMENT K: DETAIL QUANTITY SCHEDULE**

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The detail quantity schedule is uploaded to the project bid file on the purchasing webpage in PDF form.

<http://www.rockymountnc.gov/services-finance-bids/>

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