

IFB NO. 23-068 (Re-Bid)

INVITATION FOR BID

FOR BUS STOP IMPROVEMENTS CONSTRUCTION GROUP I

January 05, 2024

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(Re-Bid)

INVITATION FOR BID

FOR

Bus Stop Improvements Construction Group I

SECTION 1. INTRODUCTION

1.1 STATEMENT OF INTENT

Research Triangle Regional Transportation Authority D/B/A GoTriangle ("GoTriangle") invites qualified and experienced firms with recent and relevant experience to submit Bids for consideration to contract with GoTriangle to provide **Bus Stop Improvements Construction Group I** as set forth in this solicitation. Firms may express interest and request consideration by submitting bid material to GoTriangle as set forth in this Invitation for Bid.

To obtain a copy of the Invitation for Bid (IFB) document, Contractors shall download the document from the GoTriangle's website at https://gotriangle.org.

Bids will be received until 10:00 a.m. on January 25, 2024 (EST) on at GoTriangle's Administrative Office located at 4600 Emperor Blvd., Suite 100, Durham, North Carolina, 27703. Questions regarding the Bids shall be directed to William Bryant, Procurement Administrator at wbryant@gotriangle.org. by 4:00 PM on January 16, 2024. Responses will be posted on January 18, 2024. GoTriangle reserves the right to reject any or all Bids.

Note: Due to COVID-19 restraints, bids will be opened virtually at 11:00 a.m. January 25, 2023.

1.2 BACKGROUND

Bidder hereby proposes to furnish all materials, tools, machinery, equipment, apparatus, labor, and all means necessary to perform all tasks detailed in the Scope of Work.

1.3 PRE-PROPROSAL MEETING

A Non-mandatory Pre-Bid Conference will be held on <u>January 11, 2024 via Microsoft Teams</u> <u>Meeting at 9:00 am</u>. The meeting information is listed below. The purpose of this meeting is to offer an opportunity for prospective bidders to familiarize themselves with the site and ask questions pertaining to the project and Contract Documents.

Microsoft Teams meeting

Join on your computer, mobile app or room device

Click here to join the meeting

Meeting ID: 244 321 206 183 Passcode: 4kpzU4

<u>Download Teams</u> | <u>Join on the web</u>

Or call in (audio only)

+1 252-210-4099,,948257901# United States, Rocky Mount

Phone Conference ID: 948 257 901#

PREVAILING WAGE RATES

This project is funded by grants received from the Federal Transit Administration and subject to compliance with the "Davis-Bacon Act" (Federal prevailing wage rates) and other related Acts.

Contractors shall be responsible for compliance with the Federal Wage Determinations. The current Federal prevailing wage rates for Wake County can be found in Attachment K. These published rates will be for the duration of the contract. Contractor shall submit a certified payroll when project is completed. Payment for project will not be remitted without the certified payroll submission.

1.4 DISADVANTAGED BUSINESS ENTERPRISES

Pursuant to 49 C.F.R. Part 26, GoTriangle has established a Disadvantaged Business Enterprise (DBE) Program that states "GoTriangle shall not discriminate in any manner on the basis of race, color, sex or national origin, and shall take all reasonable steps to ensure that certified Disadvantaged Business Enterprises have the maximum opportunity to participate in the performance of contracts. In conformity with North Carolina State law, it is the policy of GoTriangle to encourage and promote the use of minority contractors, physically handicapped contractors, and women contractors in the purchasing of goods and the provision of services. Proposers are encouraged to utilize minority, handicapped and women-owned businesses to the extent possible when assembling its team

Sharon Chavis, GoTriangle Director of Equal Opportunity Employment/Disadvantaged Business Enterprises may be reached at 919-485-7555 or schavis@GoTriangle.org with questions about GoTriangle's DBE Program. This project has a MBE goal of 19.01% and a WBE goal of 8.15.

PERMITS

The Contractor is responsible to obtain, at their expense, any permits, certifications and/or licenses to complete the construction project. Copies of all inspections and permits shall be given to GoTriangle for record keeping. All work must comply with all safety, electrical, and building codes of the State of North Carolina and local ordinances.

1.5 USE OF BRAND OR TRADE NAMES

The use of brand names, trade names, types, styles, model numbers and serial numbers are intended to be descriptive only and not intended to restrict competition. Specific brand names will be used as a comparative measure of the safety, quality and performance against all Bid submissions. However, other brand names, types, styles, model numbers have to be "equal" and meet the minimum requirements of the OEM.

1.6 GOTRIANGLE PROJECT CONTACTS

1. **Pre-Award Contact:** Prior to contract award all questions, comments, correspondence and Bid packages shall be transmitted to the attention of the following individual, serving as the Owner's Representative during Pre-Award:

William Bryant, Procurement Administrator

Office: 919-485-7429 wbryant@gotriangle.org

2. **Post-Award Contact:** After the contract is awarded, the contractor and subcontractors shall transmit all project related questions, correspondence and other communications to the attention of the following individual, serving as the Owner's Representative during Post-Award:

Senior Engineer Design, GoTriangle Bong Vang

Office: 919-485-7557 bvang@gotriangle.org

SECTION 2. SCOPE OF WORK

2.1 <u>SCOPE AND SERVICES TO BE PERFORMED</u>

Attached are plans and specification to provide all labor, materials, equipment and supplies to complete tasks related to the bus stop amenity improvements located at various locations in Durham, North Carolina.

2.2 PERIOD OF PERFORMANCE

Contractor has 90 (ninety) calendar days from the date of Notice to Proceed to the final closeout and Owner acceptance of the project.

2.3 <u>BID DOCUMENT EXHIBITS</u>

Exhibit A-1 - Construction Group I Drawings.pdf

Exhibit A-2 – Construction Add Alternate.pdf

Exhibit B - Construction Group I Technical Specifications

END OF SPECIFICATIONS

SECTION 3. BID REQUIREMENTS

3.1 INFORMATION REQUIRED FROM THE CONTRACTOR

Contractor's submission must include all of the following:

- **3.1.1** Signed and completed Bid Form (Attachment A)
- **3.1.2** Signed and completed Price Sheet (Attachment B) in **sealed envelope**
- **3.1.3** A 5% bid bond or certified check must accompany your Bid if Bid price is over \$100,000.00.
- **3.1.4** Project Personnel: Identify key Construction Project Manager.
- **3.1.5** Key Point of Contact: List main point of contact and/or Project Manager.
- **3.1.6** Schedule and Work Plan: Develop a Project Management schedule that shall include all of the construction work activities. Indicate the time-frame for accomplishing the work.
- **3.1.7** Subcontractors: Provide a listing of the subcontractors' names, address and role in this contract.
- **3.1.8** Copy of State of North Carolina General Contractor's License
- **3.1.9** Proof of insurance as required and listed in (Attachment C)
- **3.1.10** E-Verify (Attachment D)
- **3.1.11** Contractor's Statement of Sales/Use Tax (Attachment E)
- **3.1.12** Iran Divestment Certificate (Attachment F)
- **3.1.13** Companies Boycotting Israel Divestment Act Certificate Form (Attachment G)
- **3.1.14** Certificate Regarding Conflict of Interest (Attachment H)
- **3.1.15** Non-Collusion (Attachment I)
- **3.1.16** M/WBE Forms (Attachment J)
- **3.1.17** Responsive Checklist (Attachment K)
- **3.1.18** Contractor shall provide within 5 calendar days from notice of award the following bonds if Bid price is over \$100,000.00:

Time and Material Payment Bond – 100% of the contract price

Performance Bond – 100% of contract price

3.2 GENERAL BID REQUIREMENTS

For a Bid to be considered, all documents required by this IFB must be submitted in the specified format. The Bid submission should follow the format and order set forth in Section 3.1 above. Submit one (1) original and three (3) additional copies of the Bid, and one USB Flash Drive. All Bids become the property of GoTriangle. GoTriangle will not photocopy your Bid documents for the purpose of complying with this provision requiring duplicate copies. Failure to provide the required number of complete duplicate copies may result in rejection of your Bid. GoTriangle will receive Bids only by personal delivery, courier/delivery service, or regular mail. Bids submitted by facsimile or email will not be accepted.

Bids will be received until 10:00 am and opened at 11:00 am by way of Microsoft Teams:

Join on your computer, mobile app or room device

Microsoft Teams meeting

Click here to join the meeting

Meeting ID: 241 948 675 088 Passcode: Egaoik

Download Teams | Join on the web

Or call in (audio only)

+1 252-210-4099,,558705211# United States, Rocky Mount

Phone Conference ID: 558 705 211#

The Bid must be submitted to Mr. William Bryant, Procurement Administrator by the time and date indicated above, marked "IFB 23-068 (Re-Bid) Go Triangle Construction Group I".

Please acknowledge receipt of any addendum received on bid form.

Please note the different remit to addresses below, if Contractor chooses to send the Bid by personal delivery, courier/delivery service, or by US mail:

Delivered By Personal Delivery or Courier/Delivery Service				
Go Triangle 4600 Emperor Blvd, Suite 100 Durham, NC 27703				

NO BIDS RECEIVED AFTER THE DATE AND HOUR SET FORTH BELOW WILL BE ACCEPTED OR CONSIDERED. BIDS SENT BY U.S. MAIL THAT ARE NOT RECEIVED IN HAND BY GOTRIANGLE BY THE DEADLINE SET FORTH BELOW WILL NOT BE CONSIDERED. NOTE: NO ELECETRONIC BIDS WILL BE ACCEPTED.

There will be a *public bid opening (via Microsoft Teams at* 11:00 a.m. IFBs are being solicited under the GoTriangle purchasing policy for "Informal Bids". "Informal Bids" are kept confidential until a Contract has been awarded. There is no expressed or implied obligation for GoTriangle to reimburse Contractors for any expenses incurred in preparing Bids in response to this IFB

The awarding of the Contract, if awarded, will be made by GoTriangle as soon thereafter as practicable. Contractors not chosen will be notified in electronic correspondence. The Bid Form should be signed by a responsible representative of the company submitting the Bid. Bid Forms that are not signed will not be considered.

3.3 CHANGES TO IFB DOCUMENT(ADDENDA)

Any changes to this IFB document will be made by written addenda issued by GoTriangle. Upon issuance, the addenda will be considered part of the IFB document and will prevail over inconsistent or conflicting provisions contained in the original IFB document. Addenda will be sent electronically via email from the Procurement Administrator. This process will be repeated each time an addendum is posted to the GoTriangle website.

A valid e-mail address must be provided upon requesting the IFB documents in order for GoTriangle to notify Contractors of the availability of addenda. GoTriangle will not be responsible for Contractors failing to receive notification of the availability of addenda if an invalid e-mail address or no e-mail address was provided to GoTriangle.

Contractors shall acknowledge their receipt of all addenda in Bid Form (Attachment B) submitted with their Bid submission. As with other required documentation, Bids that fail to provide a detailed listing of addenda received may be excluded from further consideration for this solicitation.

A revised due date of Contractor's Bid (if applicable) shall be stated in each addendum. If you have received this solicitation from a source other than the GoTriangle, it is the Contractor's responsibility to ensure that all addenda have been received.

3.4 QUESTIONS

Any questions regarding this IFB should be directed to William Bryant, Procurement Administrator. All questions must be submitted in writing before 4:00 p.m. EST on January 16, 2024. Questions will be emailed only to William Bryant at wbryant@gotriangle.org. Responses to questions will be posted on the GoTriangle's website (https://gotriangle.org/invitation-bids-ifb) by 5:00 p.m. EST on January 18, 2024. All Contractors that have requested previously IFB documents from the GoTriangle website shall be notified of responses via e-mail.

3.5 BID OPENING

GoTriangle Procurement Administrator will open the bids in the presence of bidders' designated representatives who choose to attend, at the time, date and location stipulated in the Bidding Document. The bidders' representatives who are present, shall sign a register evidencing their attendance. Bids not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. The Employer shall prepare minutes of the bid opening including the information disclosed to those present.

3.6 EXAMINATION OF BIDS AND DETERMINATION OF RESPONSIVENESS

Information relating to examination, clarification, evaluation and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons, not initially concerned with such process until the award to the successful bidder has been announced. Any effort by a bidder to influence the processing of bids or award decisions may result in the rejection of the bidder's bid.

A substantially responsive bid is one that conforms to all the terms and conditions and specifications of the bidding document without material deviation or reservation. A material deviation or reservation is one which affects in any substantial way the scope, quality, or performance of the work and which limits in any substantial way. Inconsistent with the bidding documents, GoTriangle's rights or the bidder's obligations under the contract, or whose Rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

If a bid is not substantially responsive, it will be rejected by GoTriangle and may not subsequently be made responsive by correction or withdrawal and the non-conforming deviations or reservations.

SECTION 4. AWARD CRITERIA

4.1 SELECTION

Bids will first be reviewed for responsiveness and inclusion of the components specified in **Section 3** for this IFB document. The absence of any required information may result in exclusion from further analysis.

GoTriangle will make the award to the lowest responsive responsible Contractor whose Bid is most advantageous to the GoTriangle.

GoTriangle may waive any irregularities in any Bid that does not prejudice other Contractors. GoTriangle further reserves the right to negotiate when bids exceed budget amount.

4.2 SELECTION PROCESS PROTEST PROCEDURES

Protests made with respect to this IFB shall be submitted to the CEO not later than five (5) business days after the recommendation of award has been announced. The CEO shall provide a written response within but not later than five (5) business days after receiving such protest. GoTriangle's written response and disposition of protest findings shall be deemed final. GoTriangle's CEO shall report all such protests to the Board of Trustees prior to a Contract award.

Any and all protests filed with GoTriangle CEO shall be submitted in writing and:

- a) Include the name and address of the protester.
- b) Identify the procurement by solicitation number and then the current deadline date for receipt of Bids.
- c) Contain a statement of the legal and factual grounds for the protest and any supporting documentation. The grounds for the protest must be fully supported.
- d) Indicate the ruling or relief that protester desires from GoTriangle.

Violations of federal law or regulations will be handled by the complaint process stated within that law or regulation. Violations of state or local law or regulations will be under the jurisdiction of state or local authorities.

4.3 ACCEPTANCE OR REJECTION OF BIDS

Failure to respond to any of the requirements outlined in either the Invitation for Bids or the Bid Form or a failure to enclose or submit any of the required documents may disqualify the Contractor's Bid submission. GoTriangle has the sole right to select the successful Contractor for award; to reject any and all IFBs and to re-solicit for new IFBs. IFBs shall be submitted to GoTriangle on the most favorable of terms possible from the standpoint of cost, quality, delivery date and technical capability. No Contractor shall have any cause of action against GoTriangle arising out of the methods by which IFBs are assessed. The selection of the successful Contractor shall be at the sole discretion of GoTriangle. Submission of a Bid indicates acceptance by the Contractor of the conditions contained in this IFB unless clearly and specifically noted in the Bid submitted and confirmed in the Contract between GoTriangle and the selected Contractor.

4.4 SCHEDULE OF EVENTS

DATE	IFB N0: 23-068 (Re-Bid) Bus Stop Improvements Construction Group I
January 05, 2024	IFB distributed and posted to GoTriangle website
January 11, 2024	Non-Mandatory Pre-Proposal Conference via teleconference
January 16, 2024	Inquires must be received in writing by (e-mail Only) to Procurement@gotriangle.org.
January 18, 2024	Responses to all questions received will be posted on the GoTriangle website. All firms that have previously registered and downloaded the IFB documents from the GoTriangle website will be notified of responses via e-mail.
	Bids are due by 10:00 a.m. There will be a public bid opening by
7 25 2024	
January 25, 2024	way Microsoft Teams at 11:00 am.
January 25, 2024 January 25, 2024	way Microsoft Teams at 11:00 am. Bids Evaluated
January 25, 2024	Bids Evaluated Review and Selection Committee recommends award to the CEO &
January 25, 2024 TBD	Bids Evaluated Review and Selection Committee recommends award to the CEO & President

SECTION 5. GENERAL BID CONDITIONS

5.1 NOTICE OF FORMAL SOLICITATION

Notwithstanding any other provision of this IFB, all Contractors are hereby specifically advised that this IFB is a form solicitation for Bids only, and is not intended and it not to be constructed as an offer to enter into an agreement or engage into any formal competitive bidding or negotiation pursuant to any statue, ordinance, rule of regulation.

5.2 METHOD OF RESPONSE

Responses to this IFB shall be made according to the scope of work and instructions contained herein. Failure to adhere to instructions may be cause for rejection of any Bid.

5.3 ACCEPTANCE OF TERMS AND CONDITIONS

Contractors understand and agree that submission of a Bid will constitute acknowledgment and acceptance of, and a willingness to comply with, all the terms, conditions, and criteria contained in this IFB, except as otherwise specified in the Bid. Any and all parts of the submitted Bids may become part of any subsequent Agreement between the selected Contractor and GoTriangle.

5.4 FALSE, INCOMPLETE OR UNRESPONSIVE STATEMENTS

False, incomplete, or unresponsive statements in connection with a Bid may be sufficient cause for rejection of the Bid. The evaluation and determination of the fulfillment of the above requirement will be GoTriangle's responsibility and its judgment shall be final.

5.5 CLEAR AND CONCISE SUBMISSION

Bids shall provide a straightforward, concise delineation of the Contractor's capability to satisfy the requirements of the IFB. Each Bid shall be submitted in the requested format and provide all required information. Each Bid shall be signed in ink by a duly authorized officer of the company.

5.6 PRIME CONTRACTOR RESPONSIBILITIES

The selected Contractor will be required to assume responsibility for all requested deliverables as indicated in Section 2 regardless of who produces them. Further, GoTriangle will consider the selected Prime Contractor to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the contract. Contractor and/or subcontractor shall give a copy of their State of North Carolina Contractor License and permits from governmental agencies as required upon notification of award.

The Prime Contractor agrees to pay each Subcontractor under this prime contract for satisfactory performance of its contract no later than 30 days from the receipt of each payment the Prime Contractor receives from GoTriangle. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of GoTriangle. The clause applies to both DBE and non-DBE subcontracts.

Retainage:

The Prime Contractor agrees to return retainage payments to each subcontractor within 30 days after the Subcontractors work is satisfactory completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of GoTriangle. This clause applies to both DBE and non-DBE subcontracts.

SECTION 6. ATTACHMENTS

PLEASE REFER TO THE FOLLOWING ATTACHMENTS:

Attachment A – Vendor Information Form

Attachment B – Bid Price Form

Attachment C – Minimum Insurance Requirement

Attachment D – E-Verify Form

Attachment E – Contractor's Statement of Sales/Use Tax

Attachment F – Iran Divestment Act Certificate

Attachment G – Companies Boycotting Israel Divestment ACT Certification Form

Attachment H - Certificate Regarding Conflict of Interest

Attachment I - Non-Collusion

Attachment J - Attachment J- M/WBE Forms

Attachment K – Responsive Checklist

Attachment – Bid Exhibits

Attachment-A

SUBMITTAL FORM PROPOSER INFORMATION AND SIGNATURE				
Firm's Legal Name/Address:	Date Prepared:			
	Date Firm Established:			
	Principal to Contact/Title:			
	Business Telephone:			
	Business Email:			
Is this address the:	Regional Office			
Former Firm Name(s), if any. Year Est Company, if any	tablished Name/Address/Telephone of Parent			
Corporate Structure:				
Sole Proprietorship Co	rporation			
Parent Company Pa	rtnership Other (specify):			
Other offices of the firm:				
<u>City/State</u> <u>Telephone No.</u> <u>No. of personnel</u> <u>Identify home office with *</u>				
	_			
2. State of North Carolina Registration#:				
3. Federal Tax Identification #:				
4. Acknowledge Addendum(a) by specify	ring Addendum(a) in spacesprovided:			

Certification

The undersigned prime proposer certifies that, to the best of his/her knowledge, the information presented in this Request for Proposals is a statement of facts and that the firm has the financial capability to perform the work being applied for. The undersigned prime proposer further certifies that it knows of no personal and/or organizational conflict of interest prohibited under federal, state, and local law.

I certify (or declare) under penalty of perjury under the laws of the State of North Carolina that the foregoing is true and correct.

Name:	
Signature:	
Title:	
Date:	
Place:	
	(City and State)

END OF FORM

ITEMIZED PROPOSAL / SCHEDULE OF PRICES - BASE BID

GoTriangle Bus Stop Improvements - Multiple Sites - Construction Group I

Addition of this step and site amenites to this stop focations generally consisting of grading, concrete pages and successions, instaining amenites, and other related	u items.
= FILL OUT INFORMATION FOR UNIT BID AND AMOUNT BID	
= NOT APPLICABLE FOR SECTION	

Item No.	Item Description	Unit	Quantity	Unit Bid Price	Amount Bid
1	MOBILIZATION/TRAVEL TIME	LS	1		
2	DEMOLITION	LS	1		
3	EARTHWORK	LS	1		
4	EROSION CONTROL	LS	1		
5	TRAFFIC CONTROL	LS	1		
6	THERMOPLASTIC & PAINT PAVEMENT MARKINGS	LS	1		
7	GRASS SOD / MULCH	SF	4760		
8	FULL DEPTH ASPHALT PAVEMENT, 12"	SF	265		
9	VAR. DEPTH, S9.5C	SF	285		
10	MILLING ASPHALT PAVEMENT, 1.5" DEPTH	SF	285		
11	4" SIDEWALK	SF	0		
12	6" SIDEWALK	SF	3820		
13	6" CONCRETE PAD	SF	420		
14	6" CONCRETE DRIVEWAY	SF	400		
15	2'-6" CURB & GUTTER	SF	240		
16	6" X 12" CURB	LF	60		
17	SURFACE MOUNTED CONCRETE CURB	LF	20		
18	CURB RAMP	EA	7		
19	INSTALL SHELTER	EA	1		
20	INSTALL BENCH	EA	6		
21	INSTALL BIKE RACK	EA	0		
22	INSTALL BUS STOP SECURITY LIGHTING SYSTEM	EA	7		
23	RELOCATE SIGN	EA	13		
24	PERMANENT SIGNAGE	SF	0		
25	ADJUST MANHOLE	EA	1		
26	ADJUST WATER METER	EA	0		
27	PLANT TREE	EA	2		

BASE BID SUBTOTAL			
ASE BID SUBTOTAL	GENCY OF BA	ONTING	10% CC
BASE BID TOTAL (% CONTINGENCY)	BTOTAL + 10	BID SU	(=BASE

	CONTRACTOR:
	LICENSE NO.:
DATE:	SIGNATURE:

ITEMIZED PROPOSAL / SCHEDULE OF PRICES - ADD ALTERNATE SITE 1117

Go Friangle Bus Stop Improvements - Multiple Sites - Construction Group I				
Addition of bus stop and site amenities to bus stop locations generally consisting of grading, concrete pads and sidewalks, installing amenities, and other related items.				
= FILL OUT INFORMATION FOR UNIT BID AND AMOUNT BID				
= NOT APPLICABLE FOR SECTION				

Item No.		Item Description	U	Jnit	Quantity	Unit Bid Price	Amount Bid
1	MOBILIZATION/TRAVEL TIM	E	I	LS	1		
2	DEMOLITION		I	LS	1		
3	EARTHWORK		I	LS	1		
4	EROSION CONTROL		I	LS	1		
5	TRAFFIC CONTROL		I	LS	1		
6	THERMOPLASTIC & PAINT PA	VEMENT MARKINGS	I	LS	1		
7	GRASS SOD / MULCH		S	SF	375		
8	FULL DEPTH ASPHALT PAVE	MENT, 12"	S	SF	0		
9	VAR. DEPTH, S9.5C		S	SF	0		
10	MILLING ASPHALT PAVEMEN	VT, 1.5" DEPTH	S	SF	0		
11	4" SIDEWALK		S	SF	0		
12	6" SIDEWALK		S	SF	215		
13	6" CONCRETE PAD		S	SF	80		
14	6" CONCRETE DRIVEWAY		S	SF	0		
15	2'-6" CURB & GUTTER		S	SF	0		
16	6" X 12" CURB		I	LF	55		
17	SURFACE MOUNTED CONCRI	TE CURB	I	LF	0		
18	CURB RAMP		E	EA	2		
19	INSTALL SHELTER		E	EA	1		
20	INSTALL BENCH		E	EA	0		
21	INSTALL BIKE RACK		E	EA	0		
22	INSTALL BUS STOP SECURIT	/ LIGHTING SYSTEM	E	EA	1		
23	RELOCATE SIGN		E	EA	1		
24	PERMANENT SIGNAGE		S	SF	44		
25	ADJUST MANHOLE		Е	EA	0		
26	ADJUST WATER METER		Е	EA	0		
27	PLANT TREE		Е	EA	0		
				A	DD. ALT. SIT	TE 1117 SUBTOTAL	
			10% CONTINGENCY (OF A	DD. ALT. SIT	E 1117 SUBTOTAL	
			(=ADD, ALT, SITE 1117	SUR		SITE 1117 TOTAL	

	CONTRACTOR:
	LIGENIOENIO
	LICENSE NO.:
DATE:	SIGNATURE:

ITEMIZED PROPOSAL / SCHEDULE OF PRICES - ADD ALTERNATE - SITE 1129

GoTriangle Bus Stop Improvements - Multiple Sites - Construction Group I Addition of bus stop and site amenities to bus stop locations generally consisting of grading, concrete pads and sidewalks, installing amenities, and other related items.					
= FILL OUT INFORMATION FOR UNIT BID AND	AMOUNT BID				
= NOT APPLICABLE FOR SECTION					

Item No.		Item Description	Unit	Quantity	Unit Bid Price	Amount Bid
1	MOBILIZATION/TRAVEI	TIME	LS	1		
2	DEMOLITION		LS	1		
3	EARTHWORK		LS	1		
4	EROSION CONTROL		LS	1		
5	TRAFFIC CONTROL		LS	1		
6	THERMOPLASTIC & PAI	NT PAVEMENT MARKINGS	LS	1		
7	GRASS SOD / MULCH		SF	1100		
8	FULL DEPTH ASPHALT I	PAVEMENT, 12"	SF	0		
9	VAR. DEPTH, S9.5C		SF	0		
10	MILLING ASPHALT PAV	EMENT, 1.5" DEPTH	SF	0		
11	4" SIDEWALK		SF	0		
12	6" SIDEWALK		SF	750		
13	6" CONCRETE PAD		SF	100		
14	6" CONCRETE DRIVEWA	Y	SF	0		
15	2'-6" CURB & GUTTER		SF	0		
16	6" X 12" CURB		LF	0		
17	SURFACE MOUNTED CO	NCRETE CURB	LF	0		
18	CURB RAMP		EA	0		
19	INSTALL SHELTER		EA	1		
20	INSTALL BENCH		EA	0		
21	INSTALL BIKE RACK		EA	1		
22	INSTALL BUS STOP SEC	URITY LIGHTING SYSTEM	EA	1		
23	RELOCATE SIGN		EA	1		
24	PERMANENT SIGNAGE		SF	0		
25	ADJUST MANHOLE		EA	0		
26	ADJUST WATER METER		EA	1		
27	PLANT TREE		EA	0		
				ADD ALT. SI	ΓΕ 1129 SUBTOTAL	
		10% CONTINGEN	CY OF	ADD ALT. SIT	TE 1129 SUBTOTAL	
	ADD ALT. SITE 1129 TOTAL					

ADD ALT. SITE 1129 TOTAL (=ADD ALT. SITE 1129 SUBTOTAL + 10% CONTINGENCY)

	CONTRACTOR:
	LICENSE NO.:
DATE:	SIGNATURE:

ITEMIZED PROPOSAL / SCHEDULE OF PRICES - ADD ALTERNATE - SITE 1162

GoTriangle Bus Ston Improvements - Multiple Sites - Construction Group I

Go I riangle Bus Stop Improvements - Multiple Sites - Construction Group I				
Addition of bus stop and site amenities to bus stop locations generally consisting of grading, concrete pads and sidewalks, installing amenities, and other related items.				
= FILL OUT INFORMATION FOR UNIT BID AND AMOUNT BID				
= NOT APPLICABLE FOR SECTION				

MOBILIZATION/TRAVEL DEMOLITION EARTHWORK	ПМЕ	LS	1		
E A DELINIODIZ		LS	1		
EARTHWORK		LS	1		
EROSION CONTROL		LS	1		
TRAFFIC CONTROL		LS	1		
THERMOPLASTIC & PAIN	T PAVEMENT MARKINGS	LS	0		
GRASS SOD / MULCH		SF	40		
FULL DEPTH ASPHALT P.	VEMENT, 12"	SF	0		
VAR. DEPTH, S9.5C		SF	0		
MILLING ASPHALT PAVE	MENT, 1.5" DEPTH	SF	0		
4" SIDEWALK		SF	0		
6" SIDEWALK		SF	320		
6" CONCRETE PAD		SF	0		
6" CONCRETE DRIVEWA'		SF	0		
2'-6" CURB & GUTTER		SF	0		
6" X 12" CURB		LF	0		
SURFACE MOUNTED CO	CRETE CURB	LF	30		
CURB RAMP		EA	0		
INSTALL SHELTER		EA	0		
INSTALL BENCH		EA	0		
INSTALL BIKE RACK		EA	0		
INSTALL BUS STOP SECU	RITY LIGHTING SYSTEM	EA	1		
RELOCATE SIGN		EA	1		
PERMANENT SIGNAGE		SF	0		
ADJUST MANHOLE		EA	0		
ADJUST WATER METER		EA	0		
PLANT TREE		EA	1		
ADD ALT. SITE 1162 SUBTOTAL					
	TRAFFIC CONTROL THERMOPLASTIC & PAIN GRASS SOD / MULCH FULL DEPTH ASPHALT PA VAR. DEPTH, S9.5C MILLING ASPHALT PAVE 4° SIDEWALK 6° SIDEWALK 6° SIDEWALK 6° CONCRETE PAD 6° CONCRETE DRIVEWAY 22-6° CURB & GUTTER 6° X 12° CURB SURFACE MOUNTED CON CURB RAMP INSTALL SHELTER INSTALL BENCH INSTALL BUS STOP SECU. RELOCATE SIGN PERMANENT SIGNAGE ADJUST MANHOLE ADJUST WATER METER	TRAFFIC CONTROL THERMOPLASTIC & PAINT PAVEMENT MARKINGS GRASS SOD / MULCH FULL DEPTH ASPHALT PAVEMENT, 12" VAR. DEPTH, S9.5C MILLING ASPHALT PAVEMENT, 1.5" DEPTH 4" SIDEWALK 5" CONCRETE PAD 5" CONCRETE PAD 5" CONCRETE DRIVEWAY 2"-6" CURB & GUTTER 5" X 12" CURB SURFACE MOUNTED CONCRETE CURB CURB RAMP INSTALL SHELTER INSTALL SHELTER INSTALL BENCH INSTALL BUS STOP SECURITY LIGHTING SYSTEM RELOCATE SIGN PERMANENT SIGNAGE ADJUST MANHOLE ADJUST WATER METER PLANT TREE	EROSION CONTROL IS TRAFFIC CONTROL ILS THERMOPLASTIC & PAINT PAVEMENT MARKINGS GRASS SOD / MULCH FULL DEPTH ASPHALT PAVEMENT, 12" VAR. DEPTH, S9.5C SP MILLING ASPHALT PAVEMENT, 1.5" DEPTH SF SF SIDEWALK SF STONCRETE PAD SF CONCRETE PAD SF CONCRETE DRIVEWAY SF CONCRETE DRIVEWAY SF CONCRETE DRIVEWAY SF SUBMALK SF ST 12" CURB LF SURFACE MOUNTED CONCRETE CURB LF CURB RAMP EA INSTALL SHELTER EA INSTALL BIKE RACK EA RELOCATE SIGN EA PERMANENT SIGNAGE ADJUST MANHOLE EA ADJUST MANHOLE EA PLANT TREE EA	EROSION CONTROL LS 1 TRAFFIC CONTROL LS 1 THERMOPLASTIC & PAINT PAVEMENT MARKINGS LS 0 GRASS SOD / MULCH FULL DEPTH ASPHALT PAVEMENT, 12" VAR. DEPTH, 89-5C MILLING ASPHALT PAVEMENT, 1.5" DEPTH SF 0 MILLING ASPHALT PAVEMENT, 1.5" DEPTH SF 0 SI SIDEWALK SF 320 SF 0 SF	EROSION CONTROL 1S 1 TRAFFIC CONTROL 1S 1 THERMOPLASTIC & PAINT PAVEMENT MARKINGS GRASS SOD / MULCH FULL DEPTH ASPHALT PAVEMENT, 12" SF 40 FULL DEPTH ASPHALT PAVEMENT, 12" SF 0 MILLING ASPHALT PAVEMENT, 1.5" DEPTH SF 0 FS 10 MILLING ASPHALT PAVEMENT, 1.5" DEPTH SF 320 SF

TE 1162 SUBTOTAL	ADD ALT. SI	
TE 1162 SUBTOTAL	CY OF ADD ALT. SI	10% CONTINGEN
Γ. SITE 1162 TOTAL	ADD ALT	
% CONTINGENCY)	62 SUBTOTAL + 10	(=ADD ALT, SITE 1

	CONTRACTOR:
	LICENSE NO.:
DATE:	SIGNATURE:

ITEMIZED PROPOSAL / SCHEDULE OF PRICES - ADD ALTERNATE - SITE 1172

GoTriangle Bus Stop Improvements - Multiple Sites - Construction Group I
Addition of bus stop and site amenities to bus stop locations generally consisting of grading, concrete pads and sidewalks, installing amenities, and other related items.
= FILL OUT INFORMATION FOR UNIT BID AND AMOUNT BID
= NOT APPLICABLE FOR SECTION

Item No.		Item Description	Unit	Quantity	Unit Bid Price	Amount Bid
1	MOBILIZATION/TRAVEL	TIME	LS	1		
2	DEMOLITION		LS	1		
3	EARTHWORK		LS	1		
4	EROSION CONTROL		LS	1		
5	TRAFFIC CONTROL		LS	1		
6	THERMOPLASTIC & PAI	NT PAVEMENT MARKINGS	LS	1		
7	GRASS SOD / MULCH		SF	230		
8	FULL DEPTH ASPHALT I	AVEMENT, 12"	SF	0		
9	VAR. DEPTH, S9.5C		SF	0		
10	MILLING ASPHALT PAV	EMENT, 1.5" DEPTH	SF	0		
11	4" SIDEWALK		SF	0		
12	6" SIDEWALK		SF	340		
13	6" CONCRETE PAD		SF	120		
14	6" CONCRETE DRIVEWA	Y	SF	0		
15	2'-6" CURB & GUTTER		SF	0		
16	6" X 12" CURB		LF	0		
	SURFACE MOUNTED CO		LF	0		
18	CURB RAMP		EA	0		
19	INSTALL SHELTER		EA	0		
20	INSTALL BENCH		EA	1		
21	INSTALL BIKE RACK		EA	0		
22	INSTALL BUS STOP SEC	URITY LIGHTING SYSTEM	EA	1		
23	RELOCATE SIGN		EA	1		
24	PERMANENT SIGNAGE		SF	0		
25	ADJUST MANHOLE		EA	0		
26	ADJUST WATER METER		EA	0		
27	PLANT TREE		EA	0		
				ADD. ALT. SI	TE 1172 SUBTOTAL	
			10% CONTINGENCY OF	ADD. ALT. SI	TE 1172 SUBTOTAL	

TE 1172 SUBTOTAL	AD	
TE 1172 SUBTOTAL	Y OF ADI	10% CONTINGEN
	172 SHRT4	(-ADD ALT SITE
	D. ALT. SITE 1172 SUBTOTAL ADD. ALT. SITE 1172 TOTAL	ADD. ALT. SITE 1172 SUBTOTAL CCY OF ADD. ALT. SITE 1172 SUBTOTAL ADD. ALT. SITE 1172 TOTAL 1172 SUBTOTAL + 10% CONTINGENCY)

	CONTRACTOR:
	LICENSE NO.:
DATE:	SIGNATURE:

Attachment C to GoTriangle Contract No. 23-068 Minimum Insurance Requirements

1.	<u>Definitions</u> . "Contractor" as used in this Exhibit shall mean:	_"GoTriangle"
	as used in this Exhibit shall mean the Research Triangle Regional Public Transportation	Authority dba
	GoTriangle. "Contract" as used in this Exhibit shall mean the agreement or contract	to which this
	Exhibit is attached.	

- 2. General Terms. Contractor shall secure and maintain at its own expense each type of insurance, with the applicable minimum coverage limits, as specified in this Exhibit. Contractor shall secure the required insurance policies prior to performing any work, activity, or service under this Contract. Contractor shall maintain such policies throughout the term of this Contract, unless a longer period is required pursuant to the provisions herein. Any insurance carried by Contractor is primary insurance and shall not be considered contributory with any insurance carried by GoTriangle. In the event that any portion of Contractor's obligations under this Contract are subcontracted by Contractor, then Contractor shall require each subcontractor to secure and maintain insurance satisfying the requirements of this Exhibit, or in the alternative, Contractor may secure and maintain the insurance on the subcontractor's behalf. The insurance requirements set forth in this Exhibit do not modify or otherwise relieve Contractor of Contractor's other obligations as stated elsewhere in this Contract.
- 3. Commercial General Liability. Contractor shall secure and maintain occurrence-form Commercial General Liability insurance, including coverage for premises and operations, products and completed operations, independent contractors, personal injury and blanket contractual liability, with limits of not less than: General Aggregate (\$2 million); Products and Completed Operations Aggregate (\$2 million); Personal and Advertising Injury Aggregate (\$1 million); and Each Occurrence (\$1 million). Such insurance shall be primary and non-contributory with any insurance carried by GoTriangle.
- 4. Worker's Compensation and Employer's Liability. Contractor shall secure and maintain Worker's Compensation insurance complying with North Carolina statutory requirements covering all employees and owners, and including Employer's Liability coverage with limits of not less than \$1 million per accident, \$1 million disease per policy limit, and \$1 million disease per employee limit. Coverage shall extend to all states in which operations are conducted.
- 5. <u>Automobile Liability</u>. Contractor shall secure and maintain Automobile Liability insurance with a limit of not less than \$1 million combined single limit. Such insurance shall include coverage for all owned, hired, and non-owned motorized vehicles both on and off the project site. Such insurance shall be primary and non-contributory with any insurance carried by GoTriangle.
- 6. <u>Umbrella/Excess Liability</u>. Contractor shall secure and maintain Umbrella or Excess Liability insurance on a "following form" basis with a limit of not less than \$1 million providing excess coverage over and above Contractor's primary insurance for Commercial General Liability, Automobile Liability, and Employer's Liability. Such insurance shall be primary and non-contributory with any insurance carried by GoTriangle.
- 7. <u>Professional Liability</u>. Contractor shall secure and maintain Professional Liability insurance providing coverage for errors or omissions committed in the course of Contractor's performance under this Contract. The coverage shall be maintained during the term of this Contract and for at least 3 years

following completion of Contractor's performance. The policy shall have limits of not less than \$5 million per claim and in the annual aggregate. The policy may contain a deductible of a maximum of \$250,000, but in such case the deductible shall be the sole responsibility of Contractor, and no portion of the deductible is the responsibility of GoTriangle.

8. <u>Privacy and Network Liability (Cyber)</u>. Contractor shall secure and maintain Privacy and Network Liability (Cyber) insurance with a limit of not less than \$5 million aggregate and providing coverage for network security, third party liability, notification services, and cyber extortion.

9. Other Terms.

- 9.1. Qualified Insurers. Contractor shall secure and maintain the required insurance policies from insurance carriers authorized to conduct business in the State of North Carolina with a current A.M. Best rating of "A—" or better.
- 9.2. <u>Waiver of Subrogation</u>. The following policies of insurance shall include a waiver of subrogation in favor of Research Triangle Regional Public Transportation Authority dba GoTriangle: Commercial General Liability; Worker's Compensation and Employer's Liability; Automobile Liability; and Umbrella/Excess.
- 9.3. <u>Additional Insured</u>. The following policies of insurance shall name Research Triangle Regional Public Transportation Authority dba GoTriangle as an additional insured: Commercial General Liability; Automobile Liability; and Umbrella/Excess Liability.
- 9.4. <u>Notice to GoTriangle</u>. If any required coverage lapses for any reason, Contractor shall provide immediate written notice to GoTriangle. Each policy shall also contain notification provisions whereby GoTriangle will receive not less than 30 days' written notice prior to the cancellation of the policy.
- 9.5. <u>Claims-made Insurance</u>. If any insurance policy required by this Exhibit is secured on a claims-made basis, then such policy shall provide that:
 - 9.5.1. The retroactive date shall coincide with or precede Contractor's commencement of performance under this Contract (including subsequent policies purchased as renewals or replacements);
 - 9.5.2. The policy shall allow for the reporting of circumstances or incidents that might give rise to future claims;
 - 9.5.3. Contractor shall maintain similar insurance under the same terms and conditions for at least 3 years following completion of all performance under this Contract; and
 - 9.5.4. If insurance is terminated for any reason, Contractor shall purchase an extended reporting provision of at least 3 years to report claims arising from Contractor's performance.

- 9.6. <u>Deductibles and Self-insured Retention</u>. GoTriangle will review all deductible and self-insured retention (SIR) amounts and may require Contractor to secure alternate insurance when in GoTriangle's sole discretion such amounts are not reasonable under the circumstances. The payment of any deductible is the sole responsibility of Contractor.
- 9.7. <u>Certificates of Insurance</u>. Before commencing performance under this Contract, for each required policy Contractor shall furnish a certificate of insurance (COI) to GoTriangle that demonstrates coverage in compliance with the requirements of this Exhibit and includes the following:
 - 9.7.1. Effective and expiration dates of the policy
 - 9.7.2. Amount of any deductible or self-insured retention
 - 9.7.3. Any exclusions to the policy which are not part of the standard form
 - 9.7.4. Reference to GoTriangle Contract Number identified on the first page of this Exhibit
 - 9.7.5. Title block formatted as follows: Research Triangle Regional Public Transportation Authority dba GoTriangle, PO Box 13787, Research Triangle Park, NC 27709

Attachment D- E-Verify Form

GOTRIANGLE E-VERIFY EMPLOYER COMPLIANCE STATEMENT

E-Verify for Public Contracts: HB 786 (S.L. 2013-418)

The legislation referenced prohibits governmental units from awarding to or entering into contracts unless the contractor and the contractor's subcontractors comply with the E-Verify requirements of Article 2 of Chapter 64 of the NC General Statutes.

Contractor, hereafter Employer, understands that E-Verify is a federal program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law. Employer is defined as: Any person, business entity, or other organization that transacts business in

this State and that employs <u>25 or more</u> employees in this State. This term does not include State agencies, counties, municipalities, or other governmental bodies.

Employer understands that <u>Employers</u>, as <u>Defined Herein</u>, <u>Must Use E-Verify</u>. Each employer, after hiring an employee to work in the United States, shall verify the work authorization of the employee through E-Verify in accordance with NCGS§64-26(a).

Therefore, all employers must be in compliance with the E-Verify requirements to enter into contracts with Triangle Transit.

Below check the type of employer and complete the information.

A) Employers	vitn less than 25 employees, not requi	red to use E-Verify:
Company Name:		
	rized Signer(s):	
Date:		
OR:		
B) Employer Yes, we com	with 25 or more employees required ply:	by NC S.L.213-418 to use E-Verify:
Company Name:		Ø 10
Name and title of Author	ized Signer(s):	
Date:		

ATTACHMENT E

Contractor's Statement of Sales/Use Tax Paid Sales and Use Taxes Paid on Materials Purchased for the Construction of the

Invoice Date	Invoice Number	Company Name	Type of Material Purchased	Cost of Material	Amount of Sales/Use Taxes Paid	County Where Sales/Use Taxes Paid
Total				\$0.00	\$0.00	

Construction Group I – Contractor's Statement of Sales/Use Tax Paid TTA Solicitation 23-068

Attachment-F

IFB Number (if applicable):		
Name of Vendor or Bidder:		9
		82
IRAN DIVESTMENT ACT (REQUIRED BY N.C.G.S. 1		×
As of the date listed below, the vicreated by the State Treasurer pr	r bidder listed above is not listed on the Final Divestment to N.C.G.S. 143-6A-4.	t List
The undersigned hereby certifies make the foregoing statement.	or she is authorized by the vendor or bidder listed above	e to
Signature	Date	
Printed Name	Title	:3

Notes to persons signing this form:

N.C.G.S. 143C-6A-5(a) requires this certification for bids or contracts with the State of North Carolina, a North Carolina local government, or any other political subdivision of the State of North Carolina. The certification is required at the following times:

- When a bid is submitted
- When a contract is entered into (if the certification was not already made when the vendor made its bid)
- When a contract is renewed or assigned

N.C.G.S. 143C-6A-5(b) requires that contractors with the State, a North Carolina local government, or any other political subdivision of the State of North Carolina must <u>not</u> utilize any subcontractor found on the State Treasurer's Final Divestment List.

The State Treasurer's Final Divestment List can be found on the State Treasurer's website at the address www.nctreasurer.com/lran and will be updated every 180 days.

Attachment - G

Companies Boycotting Israel Divestment	Act Certification Form
RFP/RFQ Number (if applicable):	
Name of Contracting Party or Bidder:	
COMPANIES BOYCOTTING ISRAEL REQUIRED BY N.C.G.S. §147-86.81e	
by this Act. In addition, State agencies must determined by appearing on the Final Divestr	on identified as engaging in a boycott of Israel, as defined at divest from investments in such restricted companies ment List created by the State Treasurer pursuant to G.S te of North Carolina or any political subdivision of the State.
As of the date listed below, the supplier or bic created by the State Treasurer pursuant to N.C	dder listed above is not listed on the Final Divestment Lis C.G.S. §147-86.81.
The undersigned hereby certifies that he or sabove to make the foregoing statement.	she is authorized by the contracting party or bidder listed
Signature	Date
Printed Name	Title

N.C.G.S. §147-86.81requires this certification for bids or contracts with the State of North Carolina, a North Carolina local government, or any other political subdivision of the State of North Carolina. The certification is required at the following times:

- When a bid is submitted
- When a contract is entered into (if the certification was not already made when the vendor made its bid)
- When a contract is renewed or assigned

N.C.G.S. § 147-86.81(b) requires that contractors with the State, a North Carolina local government, or any other political subdivision of the State of North Carolina must <u>not</u> utilize any subcontractor found on the State Treasurer's Final Divestment List.

The State Treasurer's Final Divestment List can be found on the State Treasurer's website at: https://www.nctreasurer.com/inside-the-department/OpenGovernment/Pages/Divestment-Acts-Resources.aspx_ and will be updated every 180 days.

^{*} Note: Enacted by Session Law 2017-193 as N.C.G.S. §147-86.81et seq.

Attachment H



CERTIFICATION REGARDING CONFLICT OF INTEREST

The Submitter is required to certify that performance of the work will not create any conflicts of interest or disclose any actual or potential conflicts of interest by completing and signing <u>one</u> of the following statements:

	The Submitter hereby certifies that to the best of its knowledge and belief, and in accordance with GoTriangle's "Procedures and Guidelines for Preventing Organizational Conflicts of Interest and RFP Section 2 performance of the services described in the Scope of Work will not create any conflicts of interest for the Submitter, any affiliates, any proposed subconsultants, and key personnel of any of these organizations.
	DATE:
	AUTHORIZED SIGNATURE:
	TITLE:
	SUBMITTER/COMPANY NAME:
OR	
	The Submitter hereby discloses the following circumstances that could give rise to a conflict of interest for the Submitter, any affiliates, any proposed subconsultants, and key personnel of any of these organizations. (Attach additional sheets as needed.) Name of the Individual/Company to which potential conflict of interest might apply:
	Nature of potential conflict of interest:

Attachment H

Proposed Remedy:	
DATE:	
AUTHORIZED SIGNATURE:	
TITLE:	
SUBMITTER/COMPANY NAME:	

Attachment I

PROPOSER STATEMENT OF NON-COLLUSION

BY SUBMISSION OF THIS PROPOSAL, PROPOSER AND EACH PERSON SIGNING ON BEHALF OF PROPOSER CERTIFIES AS TO ITS OWN ORGANIZATION, UNDER PENALTY OF PERJURY, THAT TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF:

(1)	The	prices	of	this	proposal	have	been	arrived	at	independently,	without	collusion,
	cons	ultatio	n, co	omm	unication	, or a	greeme	ent with	any	other Proposer	or comp	etitor, for
	the p	ourpose	es of	f rest	tricting co	mpeti	tion or	as to ar	ıy n	natter relating to	price.	

- (2) Unless otherwise required by law, the prices quoted in this proposal have not been knowingly disclosed by Proposer and will not be disclosed by Proposer directly or indirectly to any other Proposer or competitor before proposals are opened.
- (3) No attempt has been made or will be made by the Proposer to induce any other person, partnership or corporation to submit or not to submit a bid on any portion of the Project work.

IF, FOR ANY REASON, PROPOSER CANNOT CERTIFY AS SET FORTH ABOVE, PROPOSER SHALL SO STATE AND SET FORTH THE REASONS IN DETAIL BELOW:

of	-	perjury under the laws of the State of North Carolina, this cas the act and deed of said corporation or partnership.
		 Name (print):
		Name (pint).
		Title:

ATTACHMENT- J

GUIDE TO M/WBE REQUIRED FORMS

All GoTriangle's procurements have a section entitled "MINORITY AND WOMEN OWNED BUSINESS ENTERPRISE REQUIREMENTS." This section of procurement sets forth the established GoTriangle's goal for this particular procurement and also describes the forms that must be completed with their proposal. Below is a summary of the forms used in the GoTriangle M/WBE Participation Program by a Consultant.

Form #1: Consultant M/WBE Utilization Plan - This document must be completed by all Consultants responding to RFPs with an M/WBE goal greater than zero. The Consultant must demonstrate how it plans to meet the stated M/WBE goal. In completing this form, the Consultant should describe the steps taken to establish communication with M/WBE firms and identify current or future relationships with certified M/WBE firms. The second page of the form should list the M/WBE certified firms that the vendor plans to engage with on the project and the amount that each certified firm is projected to be paid. Plans to work with uncertified firms do not meet the criteria for participation. If the plan is not submitted or is deemed deficient, the Consultant may be sent a notice of deficiency. It is mandatory that all awards with goals have a utilization plan on file.

Form #2: M/WBE Utilization Waiver Request - This document must be filled out by the Consultant if the utilization plan (Form #1) indicates less than the stated participation goal for the procurement. In this instance, Form #2 must accompany Form #1 with the proposal. When completing Form #2, it is important that the Consultant thoroughly document the steps that were taken to meet the goal and provide evidence in the form of attachments to the document. The required attachments are listed on Form #2 and will document the good-faith efforts taken to meet the desired goal. A Consultant can also attach additional evidence outside of those referenced attachments. Without evidence of good-faith efforts, in the form of attachments or other documentation, GoTriangle may not approve the waiver and the Consultant may be deemed non-responsive.

New M/WBE firms are being certified daily and new M/WBE firms may now be available to provide products or services that were historically unavailable. If Form #2 is found by GoTriangle to be deficient, the Consultant will be sent a deficiency letter and may be deemed non-responsive.

Any questions regarding completion of these forms can be sent to procurement@gotriangle.org

M/WBE Form #1 CONSULTANT M/WBE UTILIZATION PLAN

Consultant Name:	
Vendor ID:	Telephone No.
RFP/Contract Title:	RFP/Contract No.
Description of Plan to Meet M/WBE Goals (Use pages 3-4 to provide specific MBE and WBE	subcontractor information)
PROJECTED M/WBE USAGE IN PERCENTAGE	
%	
1. MBE Goal Applied to Eligible Costs	
2. WBE Goal Applied to Eligible Costs	
3. M/WBE Combined Totals*	

^{*}If less than the stated goal in RFP, Form #2 is required.

CONSULTANT PROPOSED MBE UTILIZATION PLAN MINORITY OWNED BUSINESS ENTERPRISE (MBE) INFORMATION

In order to achieve the MBE <u>19.01%</u> Goal, Consultant expects to subcontract with North Carolina Department of Transportation certified MINORITY-OWNED entities as follows: (add additional pages as needed)

MBE Firm (Exactly as Registered)	Description of Work (Products/Services) [MBE]	Projected MBE Percentage
Name		
Address		
City, State, ZIP		
Employer I.D.		
Telephone Number () -		
Name		
Address		
City, State, ZIP		
Employer I.D.		
Telephone Number () -		
Name		
Address		
City, State, ZIP		
Employer I.D.		
Telephone Number () -		

CONSULTANT PROPOSED WBE UTILIZATION PLAN WOMEN OWNED BUSINESS ENTERPRISE (WBE) INFORMATION

In order to achieve the WBE Goal of <u>8.15%</u>, Consultant expects to subcontract with North Carolina Department of Transportation certified WOMEN-OWNED entities as follows: (add additional pages as needed)

WBE Firm (Exactly as Registered)	Description of Work (Products/Services) [WBE]	Projected WBE Percentage
Name		D.
Address		<u>\$</u>
City, State, ZIP		
Employer I.D.		
Telephone Number		
Name		
Address		<u>\$</u>
City, State, ZIP		
Employer I.D.		
Telephone Number		
Name		\$
Address		<u>y</u>
City, State, ZIP		
Employer I.D.		
Telephone Number		

M/WBE Form #2

M/WBE UTILIZATION WAIVER REQUEST

Consultant Name :		DATE:				
Address:	RFP No.:					
City, State, Zip Code:		M/WBE Goals: MBE% WBE% (From Lines 1&2 of Form 1)				
By submitting this form and the required information Faith Effort has been taken to promote M/WBE part forth under this solicitation.				-		
Consultant is requesting a :						
☐MBE Waiver – A waiver of the MBE Goal for this ☐WBE Waiver – A waiver of the WBE Goal for this ☐ Waiver Pending Certification – (Check here if su M/WBE, but an application for certification has been Date of such filing:	s procu ubcontr	rement is requested ractors or suppliers o	d. Total□ / Partial	☐ check one		
If a total or partial waiver is requested, appropriat be provided as instructed on page 6.	e supp	orting documentatio	n of Good Faith Eff	orts shall		
PREPARED BY (Signature) By signing and submitting this form, the contractor promote M/WBE participation pursuant to the M/Y Failure to submit complete and accurate information non-responsive.	WBE re	equirements set forth	n under this solicita	tion.		
Name and Title of Preparer (Printed or Typed):	Telep	hone Number:	Email Address:			
		******FOR GOTR	IANGLE USE ONLY	****		
Submit with the bid or proposal		REVIEWED BY:	IANGLE USE UNLY	DATE:		
		Waiver Granted: ☐ MBE: ☐ WBE: ☐ ☐Total Waiver ☐Certification Wai ☐Notice of Deficie	□Partia iver	al Waiver		

Explanation why Consultant is unable to meet M/WBE goals for this project:	
_	
ln	clude attachments below to evidence good faith efforts:
	Attachment A. List of the general circulation, trade and M/WBE-oriented publications and
	dates of publications soliciting for certified M/WBE participation as a subcontractor/supplier and copies of such solicitation.
	Attachment B. List of the certified M/WBEs appearing in the NCDOT M/WBE directory
	that were solicited for this contract. Provide proof of dates or copies of the solicitations and
	copies of the responses made by the certified M/WBEs. Describe specific reasons that
	responding certified M/WBEs were not selected.
	Attachment C. Descriptions of the contract documents/plans/specifications made available to
	certified M/WBEs by the contractor when soliciting their participation and steps taken to
	structure the scope of work for the purpose of subcontracting with or obtaining supplies from
	certified M/WBEs. Attachment D. Description of the pagetiations between the contractor and certified M/WBEs.
	Attachment D. Description of the negotiations between the contractor and certified M/WBEs for the purposes of complying with the M/WBE goals of this contract.
	Attachment E. Identify dates of any pre-proposal, pre-award or other meetings attended by
	consultant.

Attachment F. Other information deemed relevant to the request.

THIS DOCUMENT MUST BE SUBMITTED WITH EACH PAY REQUEST AND FINAL PAYMENT

MBE/WBE DOCUMENTATION FOR CONTRACT PAYMENTS

Prime Consultant: Address & Phone Number:			
D ' (N			
Pay Application Number:		Period:	
The following is a list of payments project for the above-mentioned pe		business sub-consulta	ants on this
Minority Firm Name and Address	Minority Category MBE/WBE*	Amount Paid For This Period	Amount Paid To Date
	_		
	_		
	_		
*Minority Categories: Black, African Indian (AI), Female (WF), Socially an			
Total MBE % for this Period:	Total WBE 9	% for this Period:	

M/WBE Forms 7

ATTACHMENT- K

RFP RESPONSE CHECKLIST

Table of Contents

1.0 Vendor Response Checklist	2
2.0 Vendor Attachments	3

1.0 Proposer Response Checklist

ALL FORMS AND REQUIRED INFORMATION BELOW MUST BE COMPLETED AND INCLUDED WHEN YOU SUBMIT YOUR PROPOSAL PACKAGE:

Table 1 Vendor Response Checklist

Item #	Proposal Response Item	Completed and Provided as Instructed	
1	A. Cover Sheet	YES 🗌	№ □
2	B. Table of Contents	YES 🗌	№ □
3	C. Concise Letter of Interest	YES 🗌	NO 🗌
4	D. Statement of Judgments	YES 🗌	NO 🗌
5	E. Understanding of Scope of Work	YES 🗌	NO 🗌
6	F. Qualifications and Experience	YES 🗌	NO 🗌
7	G. Previous Experience of Similar Scope of Work		№ □
8	H. References from Previous Clients	YES 🗌	NO 🗌
9	I. Start-Up and Transition Plan	YES 🗌	NO 🗌
10	J. Attachments	YES 🗌	NO 🗌

2.0 Proposer Attachments

The Proposer must complete the following table identifying all the other documents that are being attached as part of the RFP response.

Table 2 Vendor Attachment Checklist

Item #	Attachment Name	Attachment Provided?	
1	A. Proposal Submittal Form (Attachment A)	YES 🗌	№ □
2	B. Bid Form (Attachment B)	YES 🗌	NO 🗌
3	C. Minimum Insurance Requirements (Attachment C)	YES 🗌	NO 🗌
4	D. E-Verify Form (Attachment D)	YES	NO 🗌
5	E. Contractor's Statement of Sales/Use Tax (Attachment E)	YES 🗌	NO 🗌
6	F. Iran Divestment Act Form (Attachment F)	YES 🗌	№ □
7	G. Companies Boycotting Israel Divestment Act Form (Attachment G)	YES 🗌	NO 🗌
8	H. Certificate Regarding Conflict of Interest (Attachment H)	YES 🗌	NO 🗌
9	I. Non - Collusion (Attachment I)	YES 🗌	№ □
10	J. W/WBE Forms (Attachment J)	YES 🗌	NO 🗌
11	K.RFP Response Checklist (Attachment K)	YES 🗌	NO

Exhibit A-1

JAL CONDITIONS. OF APPROVAL.

PER UDGS CECTION 612.27, A PEDSTRIAN TRAFFIC CONTROL

PER UDGS CECTION 612.27, A PEDSTRIAN TRAFFIC CONTROL

PER UDGS CECTION 612.4N° PEDSTRIAN PATH WHICH MILL

BE ENACCESSIBLE FOR MOSE THAN 7 DAYS, AN ADDITIONAL SHEET

ILLUSTRATING THE PEDSTRIAN TRAFFIC CONTROL PLANS MUST BE

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THE SITE PLANCONSTRUCTION

DRAWNIG REVIEW PROCESS.

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CONSTRUCTION AND MAINTENANCE OF THE BUS STOP, GOTRANGE

CONSTRUCTION AND MAINTENANCE OF THE BUS STOP, GOTRANGE

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TO THE EXTENT THAT GOTRANGE FAILS TO ACQUIRE THE RECESSARY

PROPERTY INTERESTS FOR THE CITY AS STATED HERBIN.



GoTRIANGLE BUS STOP IMPROVEMENTS CONSTRUCTION GROUP I

SITES 931, 1105, 1115, 1124, 1135, 1136, 1154, 1156

- IC. WORKS. CONDITION. DE APPROVAL:
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- A CONSTRUCTION ON CITY RIGHT—OF—WAY/PRIVATE PROPERTY PERMIT MAY BE REQUIRED. CONTACT THE PUBLIC WORKS CUSTOMER SERVICE DESK AT 560—4326.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

G. SCOTT SALLADE, JR., P.E. PROIECT ENGINEER

ALEXANDER P. KITCHING, E.I.



- CONTACTOR TO ORDER THE SIX PRETEN, RELOCKED, AND OTHER AMOUNTS FOR GOTTHACK WHICH HAVE SEEN PREJUDENCE AND ASSESSMENT OF A RECORD TO SERVE THE AMOUNTS OF THE THE PREJUDENCE TO CONDITIONAL HIM OF CONTROL THE ADMINISTRATION OF BEINGING THE AMOUNTS AND ASSESSMENT OF THE AMOUNTS OF THE AMOUNTS
- THE CONTRACTOR IS TO CONTACT NORTH TO LOCATE UTBLIES AT EACH SITE AT LEAST THREE WORDING, DAYS HIGHO TO STARTING, WORK ON EACH SITE. THE CONTRACTOR SHALL BE REPORTING FOR LOCATING ALL DIRETING UTBLIES PRIOR TO RECEIVENING WORK ANY DAMAGE TO DIRETING UTBLIES WELL BE REARRED AT THE CONTRACTOR'S DEPORT.
- PHOR TO REMOVAL SAW CUT ALL PAVEMENT AND CONCRETE CURB AND GUTTER AT REMOVAL LIMITS OR AT NEAREST JOINT IF WITHIN 2' OF JOINT.
- CONTROL SECTION ON SEES AND PRIMER FROM WASHING ONTO ADJUGATE ROCHARD FROM BELLT INDICTION AT BAILS TREQUISION CONTROCTS.
 AND SEE TREATING ON NOTO # 25 TOOM TIED THE ATE * 2" WHEAT A SEES A SHAPPILLED FOR THE TREATING TREATING THE ALL LINNS OTH SETTED.
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 **TOTAL TREATING TO THE TREATING THE TREATIN
- CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS AND EQUIPMENT LEFT ON SITE. IF B RECOMMENDED THAT THE CONTRACTOR NOT LEAVE MATERIAL ON SITE WHEN NOT PRESENT.
- PROTECT ALL DISTURBED AREAS AND DO NOT LEAVE ANY OPEN TRENCHS WHEN NOT PRISENT, PROMDE PROTECT AND VERBLE PROTECTION FENCING, MAKKES AND GRANGE AT ALL THESE, DO NOT LEAVE ANY OPEN TRENCHS OR TRENCHS OR TRENCHS OVER NIGHT, USE PROPER SIDEWALK CLOSUREDITIONS SENS MERCHING THE CHARGE OF THE THEORY OF THE PROPER SIDEWALK CLOSUREDITIONS SENS MERCHING THE CHARGE OF THE THEORY OF THE PROPER SIDEWALK CLOSUREDITIONS SENS MERCHING THE CHARGE OF THE PROPER SIDEWALK CLOSUREDITIONS SENS MERCHING THE PROPERTY OF THE PR
- The second secon
- CONTROL POINTS PROVIDED ON PLAN ARE FOR USE IN STATING OUT PROPOSED WORK TO BY COMPLETED BY THE CONTRACTOR, CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND RESETTING IN DAMAGED BY CONSTRUCTION ACTIVITIES, CLOD PILES CAN BE OBTAINED BY REQUEST FROM THE ENGINER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING DISTING SITE FEATURES TO BEMAIN AND RESTORING TO PRECONSTRUCTION CONCINIONS IF DAMAGED BY CONTRACTOR IS RESPONSIBLE FOR PROTECTING DISTINGS OF PROTECTING DISTING
- IF LINE CLOSURE IS REQUIRED TO FERFORM ANY WORK TEMS, USE NCDOT SID. 199.02 FOR ADVANCED WARNING SIGNS AND APPLICABLE LINE CLOSURE.
 SUINMET RUAN TO CITY HIGH TO LINE CLOSURE FOR APPROVAL ROADE HOOME SIDWARK CLOSUREDITION STORMS. IN ACCORDANCE WITH THE CITY OF DU
 STANDARDS ALL TRAFTIC CONTROL OPPLIES AND SENSING ARE CONSERVED NCIDENTAL TO TRAFTIC CONTROL.
- REFER TO THE SERIES 2 SHEETS AND THE INFO OF STANDARDS FOR ME DETAILS REFER TO THE MOST CLIRISHT VERBON OF THE MODIT FOADOWAY STANDARDS FOR A CONTINUED AS THE CONTINUED AS THE
- If ASPHALT PATCHING IS REQUIRED, USE 5" OF 59:5C IN PARSING LOT AREAS (CARS ONLY) AND USE 6" OF IP-0C AND 5" OF 59:5C IN ALL OTHER AREAS.
 ALL DAMAGE SHALL BE SAW CUT FOR SWOOTH JONE, COORDINATE WITH CITY PROX TO REPAIRING ASPHALT PAYRIGHT.
- 14. PROVIDE JOINT SEALER AT ALL JOINTS BETWEEN NEW CONCRETE PAD AND EIRSTING PAVEMENT, JOINT SEALER SHALL BE GRAY IN COLOR AND IN ACCORDANCE WITH INCOD'S STANDARD SECTION 1028. CONTRACTOR SHOULD MATCH EIRSTING CONTRACTION JOINT SPACING WHERE APPLICABLE EXPANSION JOINTS SHALL BE LOCATED EVERY 60 AT ANAIMON.
- 15. BACKFILL ADJACENT TO ALL NEW PAYEMENT ONCE FORM WORK IS REMOVED AND COMPACT, USE MINIMUM & CLEAN TOP SOIL AND BRING TO WITHIN 2" OF PAYEMENT FOR PLACEMENT OF SOID, CUT GRADE DOWN 2" IN ALL GRASS AREAS TO THE SOID FLUSH WITH SURROUNDING GRADE.
- GADE ALL DETURED, MARS SMOOD, BENOTE ALL ROOTS, DOCKS OF ANY OTHER CREEK, AND SOO, MATCH SOO TYPE TO EXISTING SURROUNDING CRASS, IL RISCUI, BENUDA, ETC. FERTURE, MYS WATER FOR A JAMER MEROD, CONTACT HACKIER ONCE CRASS IS PACED TO STATE JAMER, WATERING MEROD, ANY GASS THAT MEROS TO BE REPLACED AT THE UND OF 2 METAS WILL BE AT THE CONTRACTORS DEPENDE. ALL PRUNING SHALL BE COMPLETED BY A LICENSED LANDSCAPE OR TREE PROFESSIONAL AND COORDINATED WITH THE CITY OF D
- ALL DESTING BUS STOPS WILL REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE REMOVAL OF EXERTING MATERIAL WITH NEW SHILTER COMPLETION PROVIDE TEMPORARY PROTECTIO AREA ADJACENT TO SITE FOR BUSIES UNTIL NEW SHELTER HAS BEEN ACCEPTED BY THE CITY FOR OPERATION, RIPME ANY DAMAGES AREAS USED FOR THE TEMPORARY BUS STOPS.
- AT THE START OF GROUNG. INVOLVING THE LOWERNG OF THE ELETING GRADE AROUND A TREE OR STEPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME THAY FROM THE TREE TRENS.

 STANDARD OF THE SERIE OF THE CUT FARTHETS AWAY FROM THE TIES TRENS.
- NO STORAGE OF MATERIALS, DUMPING. OF WASTE MATERIALS, FILL, OR PARKING, OF EQUIPMENT SHALL BE ALLOWED WITHIN THE ROOT PROTECTION ZONE, AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE ROOT PROTECTION ZONE.
- A CLEAR AREA OF 2 FEET MENAMUM. SHOULD BE PROVIDED BEHIND SHELTER FOR MAINTENANCE UNLESS OTHERWISE NOTED ON THE PLANS.
- DIVERT RUNOFF AWAY FROM SHELTER PAD.
- THE USE OF SQD WILL BE USED AND DETERMINED BY THE TIME OF YEAR OR THE IMPORTANCE TO HAVE GRASS RE-ESTABLISHED SMALL AREAS MAY BE SEEDED.
- SIGHT-OF-WAY INFORMATION ON PLANS IS BASED ON DEED RESEARCH AND NOT ACTUAL FIELD DATA.

 CONTRACTOR SHOULD MATCH EXETING CONTRACTION JOINT SPACING WHERE APPLICABLE.
- THE WORK TAYING PLACE SELITID TO THE CHANGES IN THE SITE FIAN WILL SE FULLY CONFUENT WITH THE NORTH CARGINA ACCESSIBLETY COORS (ANSIELT)-ADDR AND CHAPTER TO OT THE NCSC) QUINCES AND DICCEPT IN ASSAS WHERE AN APPROVED STATEMENT FROM A SITE INSPIRED, ARCHITECT VERBES THAT SITE CONCRITIONS DEED WHERE THE FOTOGRAPHY OF THE SETS ESTERMEN AND ONLY STATEMENT MEMORY OF CONCRITICATIONS.
- ALL TRASH. A ECCYCLING RECEPTACLES LOCATED. IN CITY OF DUHAM DESIGN DISTRICTS SHALL BE 22-GALLON DAWOR RECEPTACLE 102'S WITH BLACK HARM WITH BLACK RONNET STILE 190'S A BULK RECYCLING STILE 190'S (DNE O' EACH 190' AT EACH STILL DETAIL O' THE RECEPTACLE IS RECYCLING FOR RESTAURCE OR INSTALLANDER OF INST
- A CITY OF DURHAM, ANDOR NODOT ENCROACHMENT FEMALE IS REQUIRED PRIOR TO JANY CONSTRUCTION, AFTER OBTAINING THE REQUIRED PRIMES, THE CONTRACTOR IS TO CONTACT THE CITY OF DURHAM, ENQUERING CONSTRUCTION INSTRUCTION OFFICE AT 560-1926 FOR A PRE-CONSTRUCTION CONFERENCE AND THEIR YEAR TO JANY WORK ON THE REPORT OF THE PRIMES OF T
- CONTRACTOR TO PROVIDE A PROESTIAN DEFOUR AND SDEWARK CLOSURE SENS AT EACH SEE PROESTIANY CLOSURES THAT WILL LAST LONGER THAN 7 DAYS WILL SEQUES A PROSEINAN CONTROL RAN SUMMITTED TO THE CITY FOR APPROVAL ALL DEFOUR PLANS, SENS, SAMECLANS, ETC. AND PLAN SUMMITTAL FOR USE IN THE PROSENTIAN DIFFOUNDED CONTROL.
- IF DISTING TREES TO BE RETAINED ARE DAWAGED OR DESTROYED, THE CONTRACTOR SHALL REPLACE TREE MATCHING ENSTING SPECIES AND SIZE AT NO ADDITIONAL COST TO THE OWNER.
- RADIZA, OF BIOLOGISH OF SIBNO, ANALES AND SINCE SHOULD NOT BEPRODUSE UNIT, COURTEN OF PRODUCE INFORMATION WERE FORMER.
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- SECOLATED BUS STOP SIGNS ARE REQUEED TO BE INSTALLED ON A NEW 27/2" 12-GAUGE GALVANCED STEEL SQUARE TUBE POST, CONTRACTOR TO FABILIZE NEW BUS STOP SEPS AT LOCACIONS DETRIMINAD BY GOTBANGLIC CONTRACTOR BY TO PROVED A DETAILED SUBJECTAL TO THE ENGINE RECEPTING HITTERE HIGHES AND STACING, SHOW SEEL COLORIDOR, AND OTHER HORMANDON REQUEED TO DRUGHE HIS SAM WEETS ALL PRIVICALS REQUEREMENTS OF THE 2018 ROADWAY STANDARD DEVANDS AND THE MUTCO
- REMOVED AMENITIES TO THE CITY OF DURHAM IS TO BE COORDINATED WITH LISTON PROPLES AT GOTHLANGLE [LPEOP

CONTACT INFORMATION:

CONTRACTOR TO CONFACT GOTHANGLE INSPECTOR WHEN FORMS ARE SET AND PRIOR TO POURING OF CONCRETE FOR BUS STOP AMENITES.
FOR DESIGN AND ENGINEERING ESSUES:

2018 NCDOT ROADWAY ENGLISH STANDARD DRAWINGS

DINISION 12 = PAVEMENT MARKINGS, MARKERS, AND DELINEATH
1205.01 PAVEMENT MARKINGS = LINE TYPES AND OFFSETS
1205.07 PAVEMENT MARKINGS = PEDESTRIAN CROSSWALKS

DIMISION 16 = EROSION CONTROL AND ROADSIDE DEVEL 1605.01 TEMPORARY SILT FENCE 1606.01 SPECIAL SEDIMENT CONTROL FENCE

THE FOLLOWING ROADWAY STANDARDS AS THEY APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH = N.C. DEFARTMENT (
RALBIGH, N.C., DATED, JANUARY 16, 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS. STD. NO. TITLE

DIVISION 6 - ASPHALT BASES AND PAVE 654.01 PAVEMENT REPAIRS

DNISON 8 - INCIDENTALS 846.01 CONCERTE CURS, GUTTER, AND CURS & GUTTER 848.01 CURSER SIDEWALK 848.06 CURS RAMP - EXISTENC CURS AND GUTTER

DOTRION 9 - SERNING
903.10 CROUND MOUNTED SIGN SUPPORTS
904.10 OF SERVING MOUNTED SIGNS
904.50 MOUNTENG OF TYPE 'D', 'E', AND 'P' SIGNS ON 'U' CHANNEL POSTS

SHEET# 2A

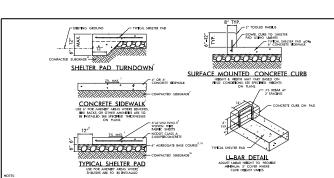


DETAILS CITY OF DURHAM GODURHAM

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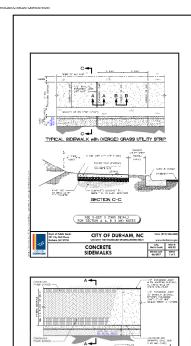
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- STANDARD.

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- QUALITY OF CONCRETE SHALL BE CHICKED FER ASTM. STANDARDS TO EMBURE PROPER MIX DESIGN AND SPECIFICATIONS, TESTING SHALL BE PERFORMED BY A TECHNICIAN UNDER THE SUPERMISSION OF A ILCONOR.
- STORWMATER BUNOFF SHOULD BE DIVERTED AWAY FROM THE SHILLTE PAD.

 MATCH DESTING CONTRACTION JOINT SPACING WHERE APPLICABLE AND WHEN WITHIN 1' OF DISTING JOINTS.
- THE CONTRACTOR SHALL REQUEST AN INSPECTION WHEN CONCRETE FORM WORK IS PLACED AND SHALL NOT FOUR CONCRETE UNITE APPROVED BY THE INSPECTOR OR ENGINEE



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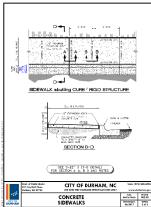
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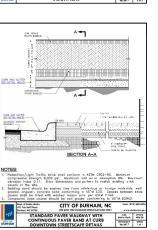
REINFORCED PAVER WALKWAY WITH CONTINUOUS PAVER BAND AT CURB DOWNTOWN STREETSCAPE DETAILS

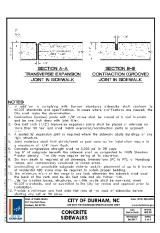
CITY OF DURHAM, NC

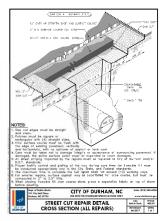
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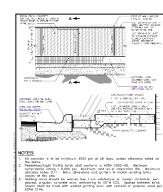
9/26/2023 User: ssella Colfriengle.





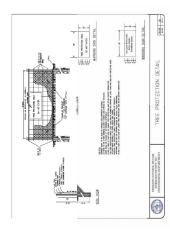






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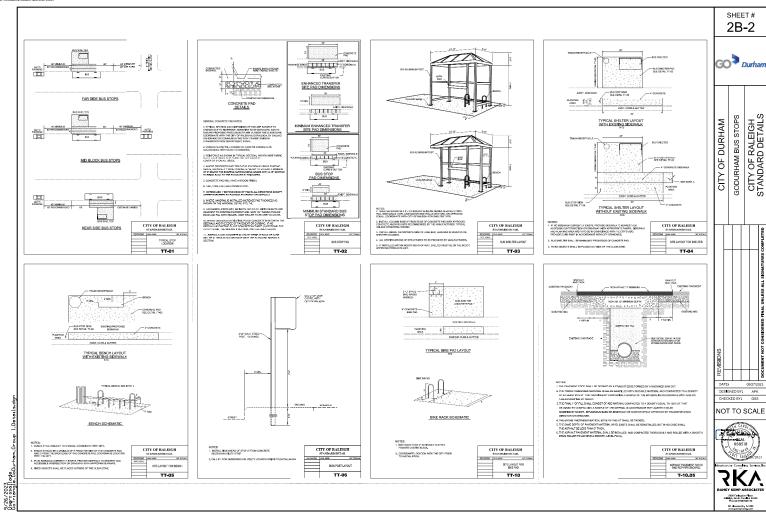


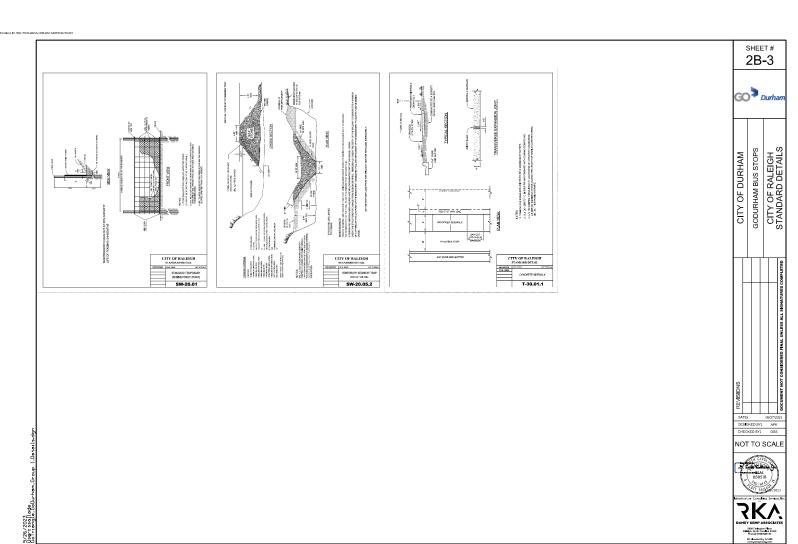


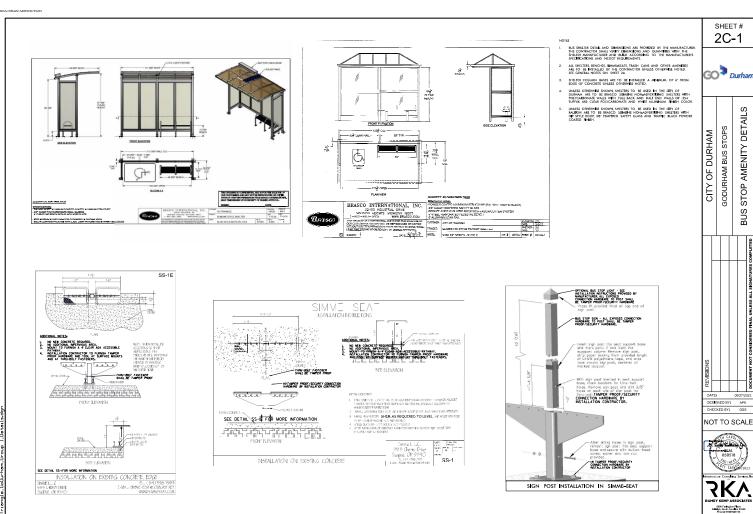


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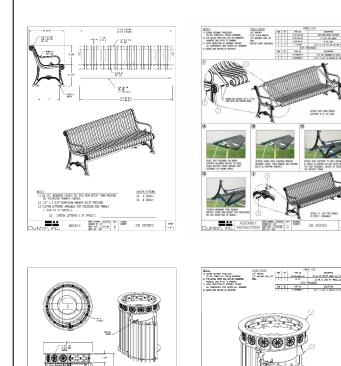


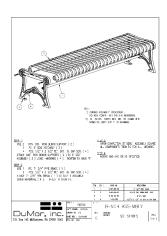


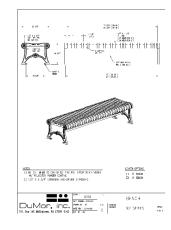


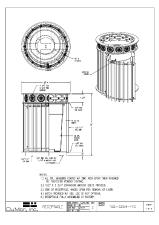


9/26/2023 User: ssallade Colriangle_CoDurham_Group I_Details.dgn



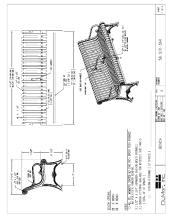


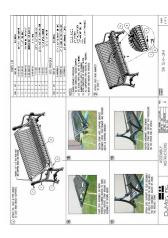




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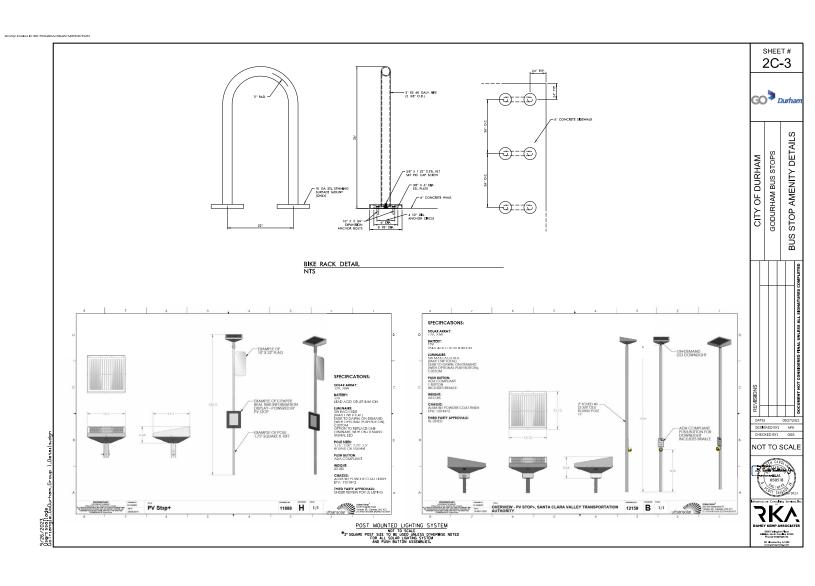
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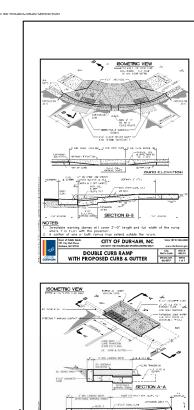


CITY OF DURHAM	GODURHAM BUS STOPS	BUS STOP AMENITY DETAILS



5808 Faringdon Place Rubigo, North Carolina 27909 Phone I 919 672-5118

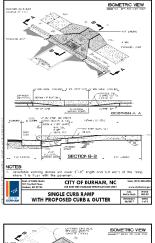


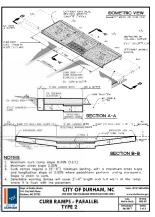


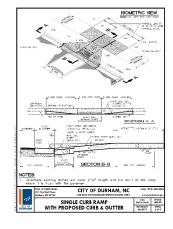
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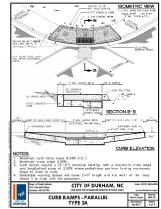
CITY OF DURHAM, NC

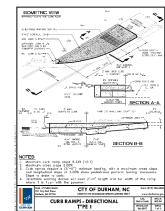
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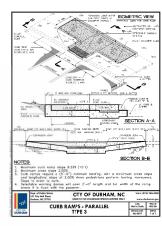














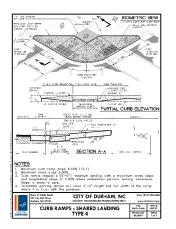


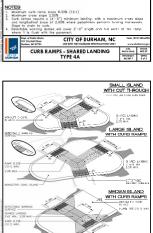


5808 Faringdon Place Rubigo, North Carolina 27909 Phone I 919 672-5118



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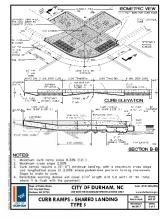


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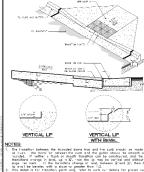


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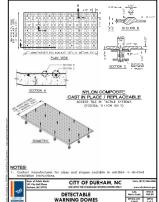


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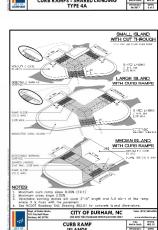


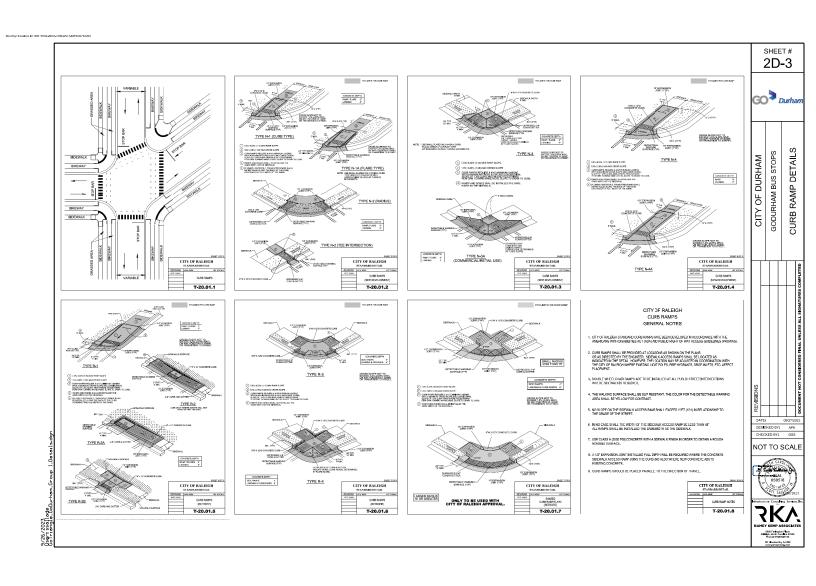
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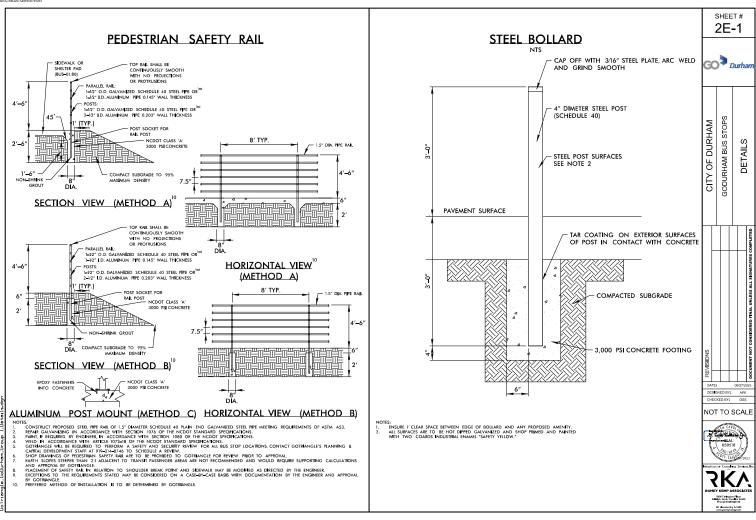






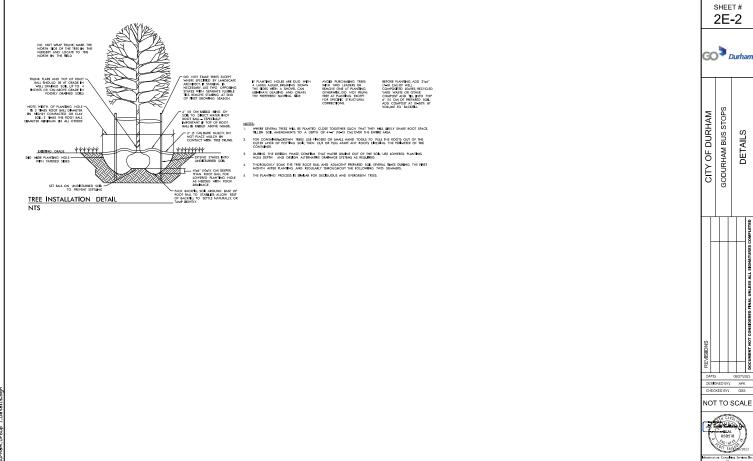




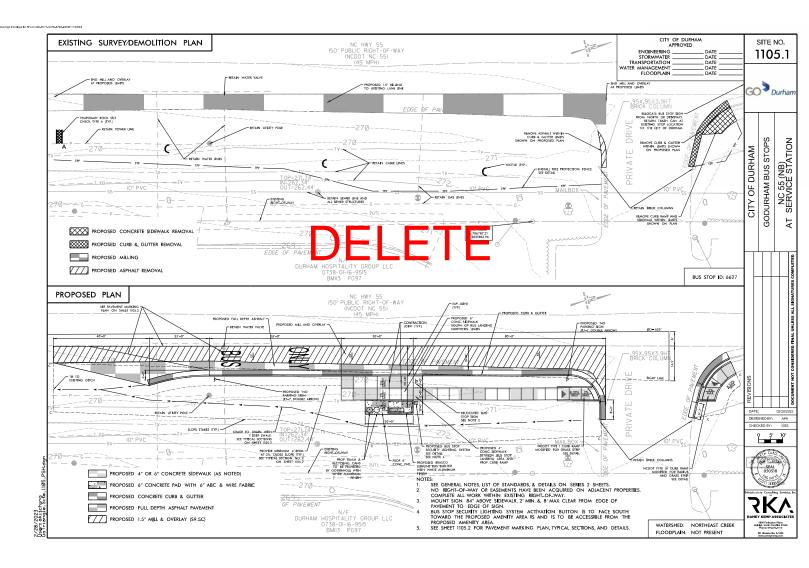


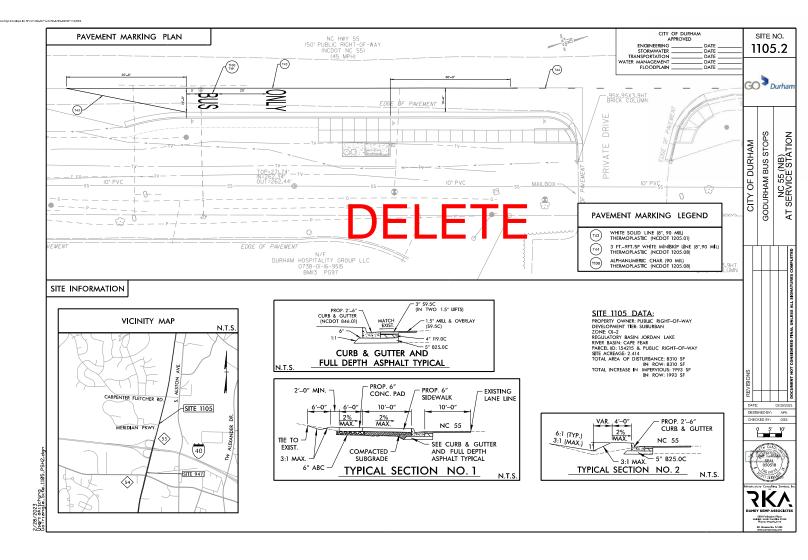
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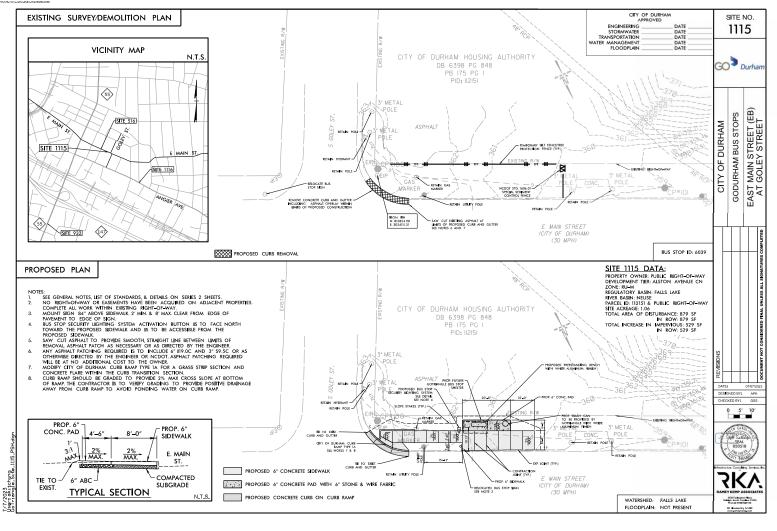




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RELOCATED BUS STOP SIGN SEE NOTE 3

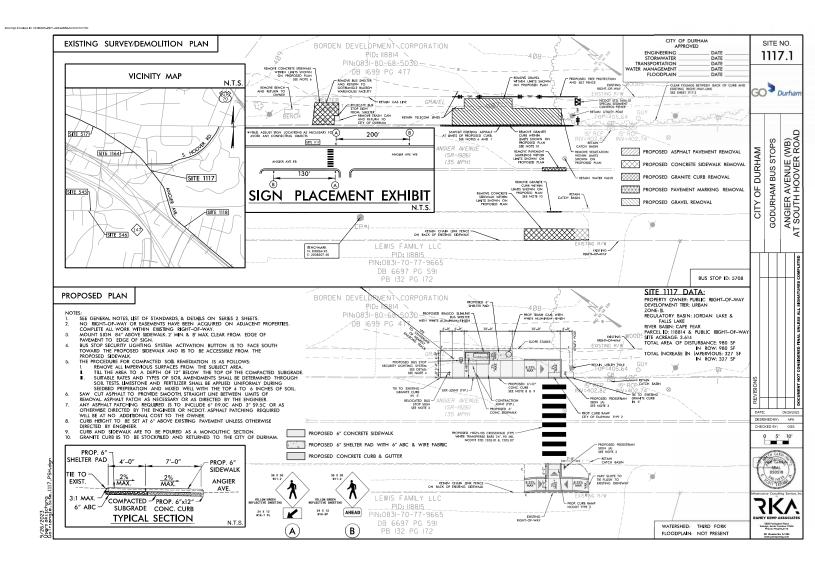
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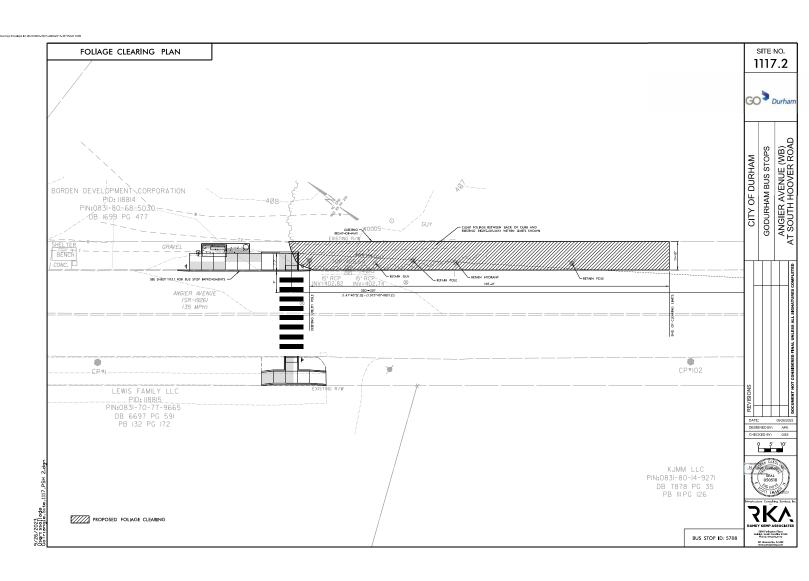
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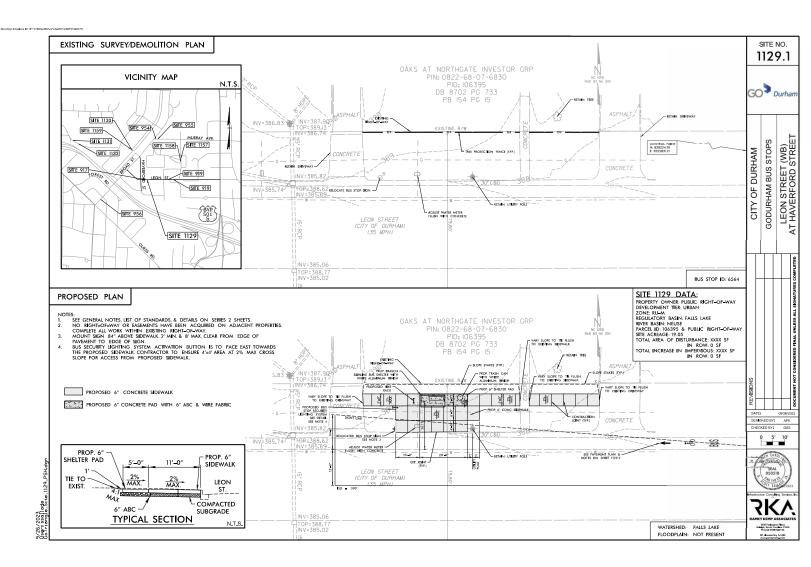
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TYPICAL SECTION







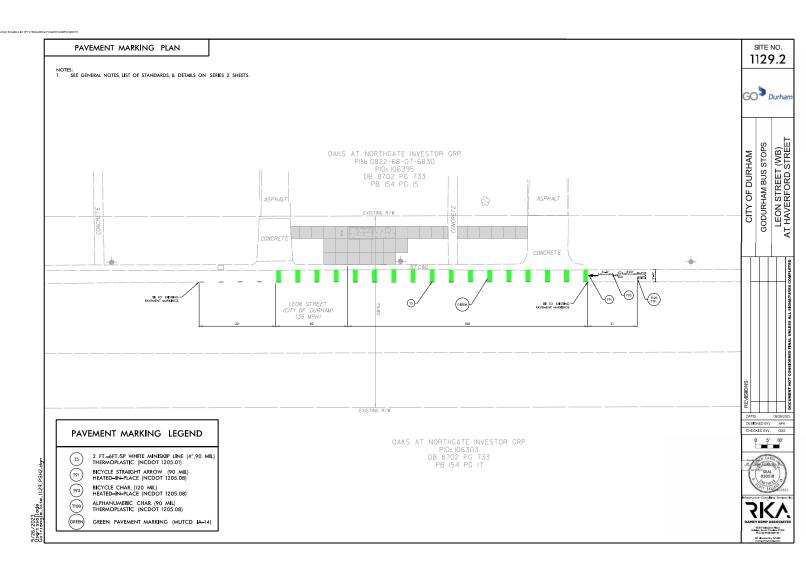


Exhibit B

GoTriangle Bus Amenity Improvements

09/25/2023

PROJECT SPECIAL PROVISIONS

1. SITES REQUIRING FINAL AGREEMENTS

The following improvement locations are in the process of being approved by adjacent property owners or appropriate jurisdictions but are included in this bid proposal. Approvals to begin work on these sites are expected to fall within the project duration with sufficient time to complete the work prior to the end of contract date. No work on these sites shall begin without written notification from the Engineer or Owner. Any work performed by the Contractor at these locations before their notice to proceed will be at no cost to the Owner and any work to repair unauthorized work will be at no additional cost to the Owner. Should this work not be feasible to complete within the project duration at the determination of the City, a contract change order may be provided or these sites may be removed from the work to be completed. Should the plans require changes, a revised plan sheet is to be provided and a change order may be issued based on changes to items and quantities to be constructed. No change order increases will be made for the inclusion of this work upon notice to proceed.

This list of sites is not intended to be all-inclusive, and it shall be the Contractor's responsibility to make sure the proper documents and authorized plans are received from the City and Engineer prior to beginning work at any location.

- Site 1117: Angier Avenue (WB) at Hoover Road
- Site 1124: Hardee Street (SB) at Delano Street
- Site 1129: Leon Street (WB) at Haverford Street
- Site 1156: Roxboro Street (NB) at Maynard Avenue
- Site 1162: Gregson Street (WB) at Dacian Street
- Site 1172: Cornwallis Road (WB) at Fayetteville Road

2. MOBILIZATION/TRAVEL TIME

Mobilization/Travel Time payment will be made by Lump Sum and is to include all mobilization of the contractor's equipment and personnel to perform the work required under this contract.

3. DEMOLITION

Demolition will be completed in accordance with Section 200 of the latest version of the NCDOT Standard Specifications for Roads and Structures. Removal of existing benches, curb and gutter, sidewalk, asphalt pavement, pipes, trimming of trees, trees and bushes within the construction limits, amenities are included in this work. Removal of additional concrete curbs, sidewalks, or other structures to the nearest joint when

GoTriangle Bus Amenity Improvements

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within two feet of joint will be considered incidental to *Demolition* and no additional payment shall be made unless otherwise noted and approved by the Engineer.

The hauling, transport, and delivery of amenities or other items to be returned to the Owner's facilities is considered incidental to *Demolition*.

Perform clearing on this project to the limits established by "Method of Clearing - Method II" shown on Standard No. 200.02 of the *NCDOT 2018 Roadway Standard Drawings*.

Demolition payment will be made by lump sum and is to include all labor, materials, transportation, and incidentals required to suitably remove and properly haul all salvaged materials or to properly dispose of as noted on the plans.

4. MAILBOX, SIGN, AND MISCELLANEOUS APPURTENANCES MAINTENANCE

The Contractor shall be required to maintain mailboxes, signs, and all miscellaneous appurtenances impacted by the construction activities in working order for the duration of construction and 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 considered incidental to other items in the contract unless otherwise noted in the contract documents, including final relocation of mailboxes, signs, and other miscellaneous appurtenances

5. EARTHWORK

The work covered by this section consists of the excavation, placement, and compaction or satisfactory disposal of all materials encountered within the limits of the work necessary for the construction of the project in conformity with the lines, grades, and typical sections shown on the plans or established by the Engineer.

The Contractor shall fill areas that settle unevenly during the course of construction at no additional cost to the Owner.

UNCLASSIFIED EXCAVATION

All material excavated in order to achieve the site lines, grades, and cross sections shown on the plans shall be classified as Unclassified Excavation.

Whenever encountered during work, remove any trash and non-natural debris. Remove all roots and pieces of wood or debris larger than three (3) inches in diameter.

All suitable material removed in the excavation shall be used as far as practicable in the formation of embankments, subgrades, and shoulders, and at such other places as may be indicated on the plans or directed by the Engineer. Unsuitable material and excess excavated material not required for construction of embankments shall be properly disposed of offsite at no additional cost to the Owner.

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The intersection of slopes with natural ground surfaces, including the beginning and ending of cut slopes, shall be uniformly rounded as shown on the plans or as may be directed by the Engineer. Concurrent with the excavation of cuts, the Contractor shall construct intercepting berm ditches or earth berms along and on top of the cut slopes at locations shown on the plans or designated by the Engineer. All slopes shall be finished to reasonably uniform surfaces acceptable for seeding and mulching operations. All protruding roots and other objectionable vegetation shall be removed from slopes.

When the Contractor's excavation operations encounter graves, the operations shall be temporarily discontinued in the vicinity of the graves and not resumed until so directed by the Engineer.

When the Contractor's excavation operations encounter artifacts of historical or archeological significance, the operations shall be temporarily discontinued in the vicinity of the artifacts and not resumed until so directed by the Engineer. Disposition of the artifacts shall be in accordance with the requirements of the State Division of Archives and History.

A tolerance of plus or minus 0.10 foot from the established grade will be permitted in the roadbed after it has been graded to a uniform surface.

The Contractor shall be responsible during construction and until final acceptance for the maintenance of all work covered by this section.

During construction and until final acceptance, the Contractor shall shape the excavated surface to provide for the drainage of surface runoff along and throughout the length of the cut, shall construct temporary ditches, and use any other methods necessary to maintain the work covered by this section so that the work will not contribute to excessive soil erosion.

As much as practicable, the Contractor shall perform the work covered by this subsection and the construction of embankments in such a manner that cut and fill slopes will be completed to final slopes and grade in a continuous operation. The operation of removing excavation material from any cut and the placement of embankment in any fill shall be a continuous operation to completion unless otherwise permitted by the Engineer.

If grading operations are suspended for any reason whatsoever, partially completed cut and fill slopes shall be brought to the required slope and the work of seeding and mulching or other required erosion control operations shall be performed.

EMBANKMENT

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The work covered by this subsection consists of placing in embankments, backfills, and earth berms, suitable material excavated as previously described by these specifications in conformity with the lines, grades, and typical cross sections shown on the plans or established by the Engineer. It shall include the preparation of the areas upon which the embankment is to be constructed; the formation, compaction, stability, and maintenance of the embankment.

Before embankment construction is begun, all vegetation, debris, deleterious and unsuitable material shall be removed from the area within the limits of the embankment.

Embankment material and backfill material shall consist of clean, readily compactible earthen material with a maximum particle size of two (2) inches. Embankment material shall be free from debris, organic matter, frozen or deleterious material, and shall be approved for use by the Owner.

The embankment material shall be deposited and spread in successive, uniform, approximately horizontal layers of not more than eight (8) inches in depth, loose measurement, for the full width of the cross section, and shall be kept approximately level by the use of effective spreading equipment. Each layer of the embankment shall be thoroughly compacted as hereinafter specified. Hauling shall be distributed over the full width of the embankment, and in no case will deep ruts be allowed to form during the construction of the embankment. The embankment shall be properly drained at all times.

All embankment material shall be compacted as specified herein unless otherwise provided in the contract or directed by the Engineer. Compaction equipment used by the Contractor shall be adequate to produce the required compaction and produce a uniformly constructed embankment with all layers uniformly bound to all preceding layers.

The embankment material shall be compacted to at least 95% of the maximum dry density obtained by compacting a sample of the material in accordance with ASTM D-698, except for the upper one foot of subbase below pavement base, which shall be compacted to at least 100% of the maximum dry density obtained by compacting a sample in accordance with ASTM D-698. Embankment materials shall be compacted at a moisture content satisfactory to the Engineer, which shall be approximately that required to produce the maximum dry density. The Contractor shall dry or add moisture to the embankment material when required to provide a uniformly compacted and stable embankment.

Backfill materials placed around and over pipe culverts, box culverts, and arch culverts, and embankment materials placed around other structures, shall be clean select material. The material shall be placed and compacted in a manner, which will avoid unbalanced loading and will not produce undue stress on the structure. Such embankments shall be placed in loose layers not to exceed six (6) inches in depth and

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each layer shall be thoroughly compacted as hereinafter specified. All pipe culverts, box culverts, and arch culverts, after being backfilled as specified in this subsection, shall be protected by a three (3) foot cover of fill at any time that heavy hauling equipment is permitted to cross during construction of the roadway. Any damage or displacement to culverts or other structures due to the Contractor's operation shall be corrected or repaired by the Contractor prior to final acceptance at no cost to the Owner.

The Contractor shall be responsible during construction and until final acceptance for the maintenance of all embankments made under the contract.

During construction and until final acceptance, the Contractor shall construct temporary or permanent earth berms along the outer edges of the top surface of the embankment, construct temporary ditches, shape the embankment surface to provide for the drainage of surface runoff along and throughout the length of the embankments, and use any other methods necessary to maintain the work covered by this section so that the work will not contribute to excessive soil erosion.

The contractor shall replace, at no cost to the Owner, any portion of embankments, which have become displaced or damaged due to carelessness or neglect on the part of the Contractor. Where the work has been properly constructed, completely drained, and properly maintained, and damage occurs due to natural causes, the Contractor will be paid at the contract unit price for the excavated material required to make necessary repairs to such damage. Measurements of quantities must be performed and approved prior to commencement of work.

All embankments shall be brought to the grade shown on the plans, or established by the Engineer, prior to final inspection and acceptance by the Engineer.

<u>UNDERCUT EXCAVATION</u>

The work covered by this subsection consists of the excavation, placement, and compaction and/or satisfactory disposal of materials removed from a location below the finished graded cross section.

When the Engineer determines that the natural soil materials are undesirable in their location or condition, the Engineer may require the Contractor to remove this undesirable material and backfill with approved material properly compacted.

Where undercutting is required adjacent to or beneath the location of a proposed drainage structure, undercut and backfill shall be done over a sufficient distance adjacent to the installation to prevent future operations from disturbing the completed drainage structure.

All materials removed in the work of undercut excavation will be classified by the Engineer as either suitable for use without excessive manipulation and utilized by the

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Contractor elsewhere in the work, or unsuitable for further use and disposed of by the Contractor as directed by the Engineer.

The Contractor shall conduct undercut operations in such a way that the Engineer can take the necessary measurements before any backfill is placed.

Backfill in undercut areas shall be placed as a continuous operation along with the undercutting operation. Backfill material shall not be placed in water unless otherwise permitted by the Engineer.

BORROW EXCAVATION

The work covered by this subsection consists of the excavation of approved material from borrow sources and the hauling and placing of this material as required on the plans or as directed by the Engineer. It shall also include the satisfactory disposal of any material from the borrow source which is not suitable for use. All work covered by this subsection shall be in accordance with Section 230 of the latest version of the NCDOT Standard Specifications for Roads and Structures.

PAYMENT

Earthwork payment will be made by Lump Sum and to include all labor, materials, transportation, and incidentals required to perform the work described within this section including, but not limited to, excavation, removal and disposal of undesirable material, backfilling with suitable material, constructing embankments necessary to achieve the grades indicated on the plans, and maintaining the work.

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6. EROSION CONTROL

Temporary and permanent erosion control measures shall be furnished, constructed, maintained, and removed in accordance with the current NCDOT standard specifications with the exception of Method of Measurement and Payment, Erosion control measures shall be provided for all land disturbing activities in accordance with the Contract Documents and/or an erosion control plan approved by the North Carolina Department of Environment and Natural Resources (NCDENR). Temporary measures shall be installed by the Contractor, then inspected by the Inspector for compliance prior to any land disturbing activity. The inspection and approval process shall be required on each phase of construction. All permanent erosion control measures shall be incorporated into the work at the earliest practical time. All temporary measures shall be maintained until the permanent measures have taken effect. Temporary and permanent measures shall be coordinated to provide effective and continuous erosion control throughout the construction and post-construction period to minimize siltation of streams, lakes, reservoirs, and other impoundments, ground surfaces, and other property. These measures shall remain in effect until final approval for removal is given by the Inspector and/or the NCDENR at which time the Contractor shall remove all temporary erosion control measures at no additional cost to the Owner.

The Contractor shall be familiar with the applicable provisions of the Sedimentation Pollution Control Act of 1973, General Statutes, Chapter 113A, Article 4. The Contractor shall be responsible for incorporating conservation procedures necessary to comply with this act in minimizing erosion and sediment pollution associated with the construction of this project as directed by the Engineer.

The Contractor shall be financially responsible for any and all fines that result from the Contractor's failure to install and/or maintain erosion control measures in accordance with the Contract Documents

The Contractor shall check all erosion and sediment control measures for stability and operation following each rainfall event, and no less than once per week. The Contractor shall make any needed repairs immediately to maintain all control measures as designed.

The Contractor shall clean out all sediment trapping devices when the device reaches 50% trap capacity and shall dispose of the sediment by spreading on the site in a protected area or by hauling away if not suitable for fill at no additional cost to the Owner.

TEMPORARY MEASURES

<u>Temporary Silt Fence</u> shall be installed around inlets, at the toe of all fill slopes, and any other necessary locations as shown on the plans and as directed by the Engineer. Silt fence shall be erected in accordance with the latest version of the *NCDOT Standard Specifications for Roads and Structures*.

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<u>Inlet Protection</u> shall be installed around inlets and any other necessary locations as shown on the plans and as directed by the Engineer. Inlet protection shall be erected in accordance with the latest version of the *NCDOT Standard Specifications for Roads and Structures*.

<u>Diversion Ditches</u> shall be installed at the top of cut and fill slopes and any other necessary locations as shown on the plans and as directed by the Engineer. Diversion ditches shall be installed in accordance with the latest version of the *NCDOT Standard Specifications for Roads and Structures*.

<u>Tree Protection Fence</u> shall be installed around the drip line of trees in the construction work area as shown on the plans and as directed by the Engineer. The tree protection fence shall be installed in such a manner that it prevents all construction activities from encroaching into the area inside the drip line of the tree. The material and installation specifications for the tree protection fence shall be approved for use by the Engineer prior to installation.

<u>Construction Entrances</u> shall be installed at all points of access to the construction site. Any access point, which does not have a construction entrance, shall be barricaded to prevent its use. Construction entrances shall be installed in accordance with the latest version of the *NCDOT Standard Specifications for Roads and Structures*. Construction entrances shall be included in the unit bid price for "Mobilization."

<u>Sediment and Filter Basins</u> shall be installed at all points where accumulated runoff is released to natural drainage channels as shown on the plans and as directed by the Engineer. Sediment pits and filter basins shall be sized to hold 1800 cubic feet of sediment for every acre of denuded area tributary to the structure. Sediment and filter basins shall be installed in accordance with the latest version of the *NCDOT Standard Specifications for Roads and Structures*.

<u>Catch Basin Risers/Filters</u> shall be installed at proposed catch basin locations or at other necessary locations as shown on the plans and as directed by the Engineer. Catch basin risers/filters shall be erected in accordance with the latest version of the *NCDOT Standard Specifications for Roads and Structures*.

<u>Check Dams</u> shall be installed in ditches any and at other necessary locations as shown on the plans and as directed by the Engineer. Check dams shall be erected in accordance with the latest version of the *NCDOT Standard Specifications for Roads and Structures*.

<u>Matting</u> for erosion control shall be jute matting or excelsior matting. Matting for erosion control shall not be dyed, bleached, or otherwise treated in a manner that will result in toxicity to vegetation.

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<u>Jute Matting</u>: Jute matting shall be of a uniform open plain weave of single jute yarn, forty-eight (48) inches in width, plus or minus one (1) inch. The yarn shall be of a loosely twisted construction and shall not vary in thickness by more than one-half its normal diameter. There shall be 78 warp ends, plus or minus 2, per linear yard; and the weight shall average 1.22 pounds per linear yard of the matting with a tolerance of plus or minus 5 percent.

Excelsior Matting: Excelsior matting shall consist of a machine-produced mat of curled wood excelsior at least 47 inches in width. The mat shall weigh 0.975 pounds per square yard with a tolerance of plus or minus 10 percent. At least 80% of the individual excelsior fibers shall be 6 inches or more in length. The excelsior fibers shall be evenly distributed over the entire area of the blanket. One side of the excelsior matting shall be covered with a woven fabric of twisted paper cord or cotton cord, or with an extruded plastic mesh. The mesh size for either the fabric or plastic mesh shall be a minimum of 1" x 1" and a maximum of 1-1/2" x 3".

<u>Wire Staples</u>: Staples shall be machine-made of No. 11 gage new steel wire formed into a "U" shape. The size when formed shall be not less than 6 inches in length with a throat of not less than 1 inch in width.

Erosion Control payment will be made by Lump Sum and will include all work covered by this section including, but not limited to, the labor, equipment, and materials for furnishing, installing, and removing all temporary erosion control measures indicated on the plans, and maintenance of the work throughout the life of the project as required by the Inspector.

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7. TEMPORARY TRAFFIC CONTROL

The work covered by this section consists of the furnishing, erecting, maintaining, relocating, and removing traffic control devices in accordance with the Contract as well as the following sections from the latest version of the *NCDOT Standard Specifications* for Roads and Structures, with the exception of the method of payment, or as directed by the Engineer:

Work Zone Traffic Control General Requirements
Work Zone Traffic Control Devices
Work Zone Signs
Flashing Arrow Boards
Drums
Cones
Barricades
Flaggers

Temporary Traffic Control payment will be made by Lump Sum and is to include all work covered by these sections including furnishing, erecting, relocating, maintain, and removing any and/or all temporary traffic control devices.

8. THERMOPLASTIC & PAINT PAVEMENT MARKINGS

All work associated with the furnishing, installing, and removing of pavement markings shall be performed in accordance with the Contract as well as the following sections of the *NCDOT Standard Specifications for Roads and Structures* with the exception of the method of payment, or as directed by the Engineer:

Section 1205 Pavement Marking General Requirements

In the case pavement markings called for on plans are not covered by *NCDOT Standard Specifications for Roads and Structures*, the Contractor shall refer to the MUTCD and any interim approvals as applicable.

Pavement Markings payment will be made by Lump Sum or as otherwise indicated in the itemized proposal and is to include all work covered by these sections including furnishing, installing, and removing pavement markings.

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9. GRASS SOD/MULCH

Sod is to be placed in all disturbed areas within the construction limits as shown on the plans.

The Contractor shall substitute mulch for sod in areas as indicated on the plans to match existing site conditions. Mulch shall be placed at a minimum of 4" thick to match the existing conditions or as called for in the plans.

Lay sod as soon as possible after it has been harvested to prevent injury. Sod should be installed within 24 hours of delivery. While installing, take action as necessary to prevent heat buildup within the unlaid sod. Plan to unstack and unroll the sod if it cannot be laid within 48 hours. Soil should be moist (but not overly wet) before laying sod. Irrigating the soil several days before delivery is often adequate.

Start sodding from a straight edge (driveway or sidewalk) and butt strips together, staggering them in a brick-like pattern. Avoid stretching sod. Use a knife or sharp spade for trimming to fit irregularly shaped areas. Lay sod lengthwise across the face of slopes and peg or stake the pieces to prevent slippage. After the sod has been placed, roll the lawn to ensure good sod-to-soil contact.

Water sod immediately after installation. Soak sod thoroughly enough to penetrate soil below the newly installed sod to a minimum depth of two (2) inches. Contractor is responsible for insuring adequacy of water supply. The Contractor shall provide any necessary temporary means to properly water sod, including temporary pumps and sprinklers. Proper irrigation shall be required by the Contractor until the project has been inspected and is accepted by the Owner.

In some cases, sod can be laid in space planting "semi-checkerboard" fashion in order to lower costs. This method is described here assuming that the sod is cut into the standard 18 in. x 24 in. size. The first piece of sod is laid with the narrow side flush to a straight edge. This will start a row that is 24 in. wide. The next piece of sod is laid likewise but it is spaced 9 in. away and parallel to the first piece along the longer side. This is continued to make the first row. The next row is laid flush with the previous and in the same fashion except it laid offset by 9 inches, i.e. laid beginning at the centerline of the first piece of sod in the previous row. Subsequent rows are laid in this alternating pattern.

Upon completion of work, the Contractor shall remove from the site all equipment and other articles used. All excess soil, stone, and debris shall be removed and legally disposed of at no additional cost to the Owner. All work areas shall be left in a clean and neat condition. All damage to existing construction caused by landscaping operations shall be repaired to the satisfaction of the Owner at the Contractor's expense.

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The Contractor will be responsible for watering grass for a two (2) week period after installation. The Contractor shall notify Engineer once grass is installed to start the two-week period. The Contractor is to replace any dead grass at the direction of the Engineer and water for an additional two weeks at no additional cost to the Owner.

LAWN SEEDING (Cool- and Warm-Season Grasses)						
	Typical Planting Rate/1,000 sq. ft.					
Lawn Grass	Planting Dates ¹	Seeds ²	Space Planting ³	Sprigging⁴		
Tall fescue	March 1 to Oct. 15 (Aug. 15 to Oct. 1 optimum)	6	-	-		
Tall fescue/annual (winter) rye	Oct. 15 to March 1	6 fescue 1 rye				
Bermudagrass(seed)	Apr. 1 to Aug. 15	1 to 2	-	-		
Bermudagrass (vegetative)	Apr. 15 to Aug. 30	-	5 4	5		
Centipedegrass	March to July	0.25 to 0.50	5 ⁴	-		
Zoysiagrass	April to July	-	5 ⁴	5		
St. Augustinegrass	Apr. to July	-	5 ⁴	-		

Notes:

- Sod consisting of cool-season grasses can be installed anytime the ground is not frozen. Sod consisting of warm- season grasses can be installed as long as soil temperature exceeds 55° F. (typically April 15 to Oct. 1)
- ² Pounds of seed per 1,000 sq. ft.
- ³ Square yards of turf cut into 2-inch centers to plant 1,000 sq. ft.
- ⁴ Bushels of sprigs per 1,000 sq. ft. (1 sq. yd. of turf pulled apart is equivalent to 1 bushel of sprigs.)

Grass Sod/Mulch payment will be made at the unit price per square foot or as indicated in the itemized proposal of disturbed areas shown on the plans and as indicated on the itemized proposal including, but not limited to, all equipment, labor, materials, watering and incidentals to install and maintain the sod and mulch as directed.

Watering will be considered incidental to *Grass Sod/Mulch*. The Contractor is to replace any dead grass at the direction of the Engineer and water for an additional two weeks at no additional cost to the Owner. No direct payment will be made for areas outside of the construction limits shown on the plans that have been disturbed or damaged.

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10.ASPHALT PAVEMENT REPAIR PATCH

Where it is necessary to open cut along or across streets with asphalt surfaces and where existing asphalt is disturbed by the removal of existing pavement or by the addition of proposed pavement, the pavement shall be replaced in accordance with City of Durham Standard Detail 408.01, or with seven (7) inches of Superpave – Asphalt Concrete Intermediate Course: Type I19.0C, and two (2) inches of Superpave – Asphalt Concrete Surface Course: Type S9.5C, or as directed by the Engineer. Use of different sections are to be at locations as identified on the plans or as directed by the engineer. The thickness of the replacement material shall be sufficient to provide a base and surface of equivalent strength to the undisturbed base and surface. The replaced pavement shall meet all applicable material and installation specifications outlined in the latest version of the NCDOT Standard Specifications for Roads and Structures.

Asphalt Pavement Repair Patch payment will be made at the unit price per ton or as otherwise indicated on the itemized proposal of asphalt material required to repair disturbed asphalt. The unit price will include all pavement repairs, both temporary and permanent, furnishing, hauling, placing, and shaping the asphalt pavement to produce a uniform, smooth driving surface. No additional payments will be issued to repair pavement damaged by the Contractor outside of the limits of existing asphalt adjacent to removal and replacement of existing pavement or adjacent to the addition of new pavement.

11. MILL ASPHALT PAVEMENT, -" DEPTH

Mill Asphalt Pavement, - "Depth will be constructed in accordance to Section 607 of the latest version of the NCDOT Standard Specifications for Roads and Structures at the specified thickness and as shown on the plans.

Mill Asphalt Pavement, -" Depth payment will be made at the unit price per square foot at the specified thickness or as otherwise indicated in the itemized proposal and will include the labor, hauling, materials, and all other miscellaneous items needed to mill and remove the thickness of asphalt specified and prepare the area for other construction items.

12. ASPHALT PAVEMENT

All asphalt pavement will be installed in accordance to Sections 609 & 610 of the latest version of the *NCDOT Standard Specifications for Roads and Structures* with the specified mix types and thicknesses as shown on the plans and typical sections. The pavement mixes shall meet all applicable material and installation specifications outlined in the latest version of the *NCDOT Standard Specifications for Roads and Structures*. Contractor to provide NCDOT approved mix designs prior to paving.

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Full Depth Asphalt Pavement, -"will include all the mix types at the specified thicknesses for each layer to the total depth specified.

Full Depth Asphalt Pavement, -" payment will be made at the unit price per square foot of the specified thicknesses and mix types installed and accepted or as otherwise indicated in the itemized proposal and will include the labor, materials, asphalt binder, and all other miscellaneous items needed to install the asphalt. See Section 610 of the latest version of the NCDOT Standard Specifications for Roads and Structures for full description of all items included.

Var. Depth, (Mix Type) will be made at the unit price per square foot of the variable depth of the specified mix type installed and accepted or as otherwise indicated in the itemized proposal and will include the labor, materials, asphalt binder, and all other miscellaneous items needed to install the asphalt. See Section 610 of the latest version of the *NCDOT Standard Specifications for Roads and Structures* for full description of all items included.

13.-" CONCRETE SIDEWALK

- -" Concrete Sidewalk will be constructed in accordance to Section 848 of the latest version of the NCDOT Standard Specifications for Roads and Structures at the specified thickness and as shown on the plans with compacted subgrade.
- -" Concrete Sidewalk payment will be made at the unit price per square foot at the specified thickness or as otherwise indicated in the itemized proposal and will include the labor, materials, compaction of subgrade, and all other miscellaneous items needed to construct the sidewalk.

14.-" CONCRETE PAD

-" Shelter Pad will be constructed per NCDOT Section 848 and as shown on the plans. Where called for, 6" of compacted aggregate base course is to be provided underneath the proposed pad with a minimum of 12" width of aggregate base course around the perimeter of the pad.

Where required, woven wire fabric sheets shall be placed within the shelter pad per the details provided in the plans and installed on chairs.

Where required, steel rebar shall be placed within the shelter pad per the details provided in the plans.

-" Shelter Pad payment will be made at the unit price per square foot of concrete pad installed and approved at the specified thickness or as otherwise indicated in the itemized proposal and will include the labor, materials, aggregate base course, woven

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wire fabric, rebar, compaction of subgrade, and all other miscellaneous items needed to construct the shelter pad.

15.-" CONCRETE DRIVEWAY

- -" Concrete Driveway will be constructed in accordance to Section 848 of the latest version of the NCDOT Standard Specifications for Roads and Structures at the specified thickness and as shown on the plans with compacted subgrade.
- -" Concrete Driveway payment will be made at the unit price per square foot at the specified thickness or as otherwise indicated in the itemized proposal and will include the labor, materials, compaction of subgrade, and all other miscellaneous items needed to construct the driveway.

16.-' -" CURB & GUTTER

- -'-" Curb & Gutter will be constructed in accordance to Section 846 of the latest version of the NCDOT Standard Specifications for Roads and Structures. Asphalt base course / ABC, as indicated on the plans, under the curb shall be installed per the current NCDOT standards and specifications at the thicknesses shown on the plans or as directed by the Engineer. Asphalt under the curb will extend behind the back of the proposed curb a minimum of 6" and ABC a minimum of 12".
- '-" Curb & Gutter payment will be made at the unit price per linear foot at the specified size or as otherwise indicated in the itemized proposal and will include the labor, materials, asphalt or stone base, and all other miscellaneous items needed to construct the curb & gutter. Payment for this item will not be made until complete, including backfilling, until inspected and accepted by the Owner.

17.-" X -" CONCRETE CURB

- -"x -" Concrete Curb will be constructed in accordance to Section 846 of the latest version of the NCDOT Standard Specifications for Roads and Structures. Asphalt base course / ABC, as indicated on the plans, under the curb shall be installed per the current NCDOT standards and specifications at the thicknesses shown on the plans or as directed by the Engineer. Asphalt under the curb will extend behind the back of the proposed curb a minimum of 6" and ABC a minimum of 12".
- -"x -"Concrete Curb payment will be made at the unit price per linear foot at the specified size or as otherwise indicated in the itemized proposal and will include the labor, materials, asphalt or stone base, and all other miscellaneous items needed to construct the curb & gutter. Payment for this item will not be made until complete, including backfilling, until inspected and accepted by the Owner.

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18. SURFACE MOUNTED CONCRETE CURB

Surface Mounted Concrete Curb will be constructed in accordance to Section 848 of the NCDOT Standard Specifications for Roads and Structures and as shown on the plans on top of the proposed concrete pad or sidewalk sections. Heights of such curb may vary up to 12" measured from the top of the adjoining concrete pad or sidewalk section. Reinforcement steel "U"-bars shall be furnished and in accordance with Section 1070 of the NCDOT Standard Specifications for Roads and Structures and spaced as shown on the details or as directed by the Engineer.

Surface Mounted Concrete Curb payment will be made at the unit price per linear foot measured along the top, back of curb approved by the Engineer or as otherwise indicated in the itemized proposal and will include the labor, materials, reinforcement steel, and all other miscellaneous items needed to construct and install the curb to proposed concrete. No variance in payment will be made based on variable height of curbs shown on the plans up to 12" tall.

19. BRICK PAVERS

The Contactor is to furnish and install brick pavers as shown on the plans and in accordance with City of Durham Standard Detail Drawings 406.04, 406.05, 406.06, or other details shown on the plans as applicable. The Contractor is responsible for furnishing brick pavers that match brick in the existing vicinity unless directed otherwise by the Engineer.

The Contract is to provide a submittal of the proposed brick material for installation to the Engineer for review and approval prior to installation.

Brick Pavers payment will be made at the unit price per square feet of the brick pavers installed and approved or as otherwise indicated in the itemized proposal and will include the labor, materials, aggregate base course, compacting sand, galvanized stakes, furnishing brick pavers and all other miscellaneous items needed to install the brick pavers.

20. RETROFIT CURB RAMP

Retrofit Curb Ramps will be constructed per section 848 of the latest version of the NCDOT Standard Specifications.

Retrofit Curb Ramp payment will be made in accordance with Section 848-4 (see "Retrofit Existing Curb Ramps") of the latest version of the NCDOT Standard Specifications for Roads and Structures.

21. CONCRETE CURB RAMPS

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Concrete Curb Ramps will be constructed in accordance to Section 848 of the latest version of the NCDOT Standard Specifications for Roads and Structures.

Concrete Curb Ramps payment will be made at the unit price per each curb ramp satisfactorily installed or as otherwise indicated in the itemized proposal and will include the labor, materials, excavation and backfilling, sawing the existing sidewalk or driveway, furnishing and placing concrete, curb and gutter, constructing and sealing joints and furnishing and installing truncated domes, and all other miscellaneous items needed to construct the curb ramp. Pay limits for ramps will be as specified on the details provided in the plans.

09/25/2023 22. INSTALL SHELTERS, BENCHES, AND OTHER AMENITIES

The Owner has purchased all amenities (shelters, benches, trash cans, etc.) to be used for this project unless otherwise noted in the plans or contract documents. The Contractor will pick-up, transport, and install amenities at each site as called out on the plans. The amenities will be located on the Owner's property at the Raleigh GoTriangle warehouse at 324 W Lane Street, Raleigh. The Contractor will sign for amenities prior to leaving the Owner's storage facility indicating the condition of the amenities. The contractor will also be responsible for hauling away and disposing of any crates or pallet/packing materials off-site in a legal manner. Amenities will be assembled and installed per manufacturer's recommendations using an anchoring system. The Contractor shall provide anchor units to install amenities on concrete per manufacturer's requirements. The Contractor will coordinate all efforts with the Owner. The Contractor will be responsible for any damages to amenities once they leave the Owner's storage facility. The Contractor is to keep the storage facility clean at all times, including removing and disposing properly offsite of trash and sawdust, metal filings and other detritus created.

Install Bus Shelter and Amenities payment will be made at the unit price per each bus shelter to be installed or as otherwise indicated on the itemized proposal and shall include all transportation, assembly, installation and incidentals required to install the shelter, bench, and other amenities (trash cans, charging stations, etc.) as shown on the plans.

Install Bench and Amenities payment will be made at the unit price per each bench to be installed or as otherwise indicated on the itemized proposal and shall include all transportation, assembly, installation and incidentals required to install the bench, and other amenities (trash cans, charging stations, etc.) as shown on the plans.

Install Simme-seat and Amenities payment will be made at the unit price per each Simme-seat to be installed or as otherwise indicated on the itemized proposal and shall include all transportation, assembly, installation and incidentals required to install the Simme-seat and other amenities (trash cans, charging stations, etc.) as shown on the plans.

Trash cans installed at sites with no other amenity will be considered incidental to the overall contract.

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23. AMENITY ITEMS & MODELS TO BE INSTALLED

The following table is a report of the amenities to be installed per the specifications of this contract. The model of amenities to be installed at any site is subject to change upon Owner and Engineer discretion prior to installation work by the Contractor at each location.

Site #	Shelter Model	Bench Model	Receptacle Model
<mark>931</mark>	Brasco Slimline (C) (White Aluminum)	Brasco (White Aluminum)	Brasco (White Aluminum) (x2 – Trash & Recycling)
<mark>1105</mark>	Brasco Slimline (C) (White Aluminum)	Brasco (White Aluminum)	Brasco (White Aluminum) (x2 – Trash & Recycling)
<mark>1109</mark>			
<mark>1115</mark>	Brasco Slimline (C) (White Aluminum)	Brasco (White Aluminum)	Brasco (White Aluminum)
<mark>1117</mark>	Brasco Slimline (C) (White Aluminum)	Brasco (White Aluminum)	Brasco (White Aluminum)
<mark>1122</mark>	-	Brasco (White Aluminum)	Brasco (White Aluminum)
<mark>1124</mark>			
<mark>1129</mark>			
<mark>1135</mark>		Brasco (White Aluminum)	Brasco (White Aluminum)
<mark>1136</mark>		Brasco (White Aluminum)	Brasco (White Aluminum)
<mark>1154</mark>		Brasco (White Aluminum)	Brasco (White Aluminum)
<mark>1156</mark>	Brasco Slimline (C) (White Aluminum)	Brasco (White Aluminum)	Brasco (White Aluminum)
<mark>1162</mark>			
<mark>1166</mark>			
<mark>1167</mark>			
1172			
<mark>1177</mark>			

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24. INSTALL BIKE RACKS

The Contractor is to install bike racks in accordance with the manufacturer details and as shown on the plans. The Contractor is to coordinate with the Owner to pick-up and transport bike racks from the Owner's storage location to the locations required for installation. The bike racks are to be assembled and installed per manufacturer's recommendations.

The Contractor shall provide required anchor units to install the bike rack on concrete per manufacturer's requirements. The Contractor shall coordinate the color and style of the bike racks to be installed at each location with the Owner prior to installation.

Install Bike Racks payment will be made at the unit price per each bike rack installed or as otherwise indicated on the itemized proposal and shall include all transportation, assembly, coordination with Owner, installation and incidentals required to install the bike racks as shown on the plans.

25. INSTALL BUS STOP SECURTLY LIGHTING SYSTEM

The Contractor is to install bus stop security lighting systems in accordance with the manufacturer details and as shown on the plans. The Contractor is to coordinate with the Owner to pick-up and transport the lighting systems from the Owner's storage location to the locations required for installation. The lighting systems are to be assembled and installed per manufacturer's recommendations.

Bus stop security lighting systems are to be installed on new 12-gauge galvanized steel square tube posts, at the size indicated by the manufacturer or as directed by the Engineer or as otherwise required by the manufacturer. Lighting systems and posts shall be installed to the heights specified by the manufacturer. New sign post installations and locations with bus stop security lighting systems shall be smooth wall or "Telespar Qwik-Punch" with knockouts square tube signs, or equivalent approved by the Owner. All sign posts used shall meet the requirements of Section 1094 of the latest version of the NCDOT Standard Specification for Roads and Structures.

Installation of the lighting system will also include the installation of push buttons and wiring provided and required by the manufacturer.

Install Bus Stop Security Lighting System payment will be made per each lighting system satisfactorily installed and will include, but is not limited to, furnishing of the lighting system, coordination with the Owner for approval of products to be used, new square tube sign posts, installation, installation of push buttons, equipment, labor, and materials including bolts, fabrication, and machine work and any incidentals required to satisfactorily install the lighting system.

09/25/2023 26.PEDESTRIAN SAFETY RAIL AND HANDRAIL

The Contractor is to furnish and install pedestrian safety rails and handrails at the size, height, locations, and of the materials specified in the plans. The pipe shall be 1.5" diameter galvanized schedule 40 steel or 1.5" aluminum pipe with 0.145" wall thickness or as otherwise approved by the Engineer. Footings for the rail are to be constructed continuously with adjacent concrete unless otherwise noted on the plans or as approved by the Engineer.

Where proposed rail is to attach to existing rails shown on the plans, the Contractor should furnish and install pedestrian safety and handrails that match the existing rails.

The Contractor is to provide a construction drawing submittal of the rails to be furnished to the Engineer for review and approval prior to installation.

Repair of galvanizing of the proposed handrail and safety rails shall be completed in accordance with Section 1076 of the latest version of the NCDOT Standard Specifications for Roads and Structures.

Pedestrian Safety Rail payment will be paid as the actual number of linear feet of safety rail installed and approved or as otherwise indicated in the itemized proposal and will include the labor, materials, fabrication, furnishing, installing, painting, concrete footings and all other miscellaneous items needed to satisfactorily install the safety rail. Measurement for Pedestrian Safety Rail will be made along the top of rail to the nearest whole foot.

Pedestrian Handrail payment will be paid as the actual number of linear feet of safety rail installed and approved or as otherwise indicated in the itemized proposal and will include the labor, materials, fabrication, furnishing, installing, painting, concrete footings and all other miscellaneous items needed to satisfactorily install the safety rail. Measurement for Pedestrian Handrail will be made along the top of rail to the nearest whole foot.

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27. RELOCATE SIGN

Contractor to relocate existing signs to new 3lb galvanized steel U-channel posts or 2"x2" 12-gauge galvanized steel square tube posts, as directed by the Engineer. Sign posts also requiring a lighting system shall be of the size required by the lighting system manufacturer. Existing signs shall be stockpiled in a manner to prevent damage to sign sheeting. Contractor shall inventory these signs by street name, location, and sign message and provide inventory to Engineer prior to removal. Install all signs 7'-0" from the base of the sign to ground elevation where sign is shown on the plan sheets. Any other relocated signs are to be installed at the same height as the original condition.

Relocated bus stop signs are required to be installed on a new 12-gauge galvanized steel square tube post at the size indicated in these specifications or on the plans, 7'-0" from the base of the sign to ground elevation, 2'-0" minimum from face of curb to signpost, and ahead of stop 2'-0" from concrete section in utility strip. If an existing bus stop sign is not present or the existing sign is not salvageable, a new sign shall be obtained from the Owner.

Any backfilling, compaction, concrete, brick work, or joint sealer required to remove the existing post hole is to be considered incidental to the relocation of the sign.

Relocate Sign payment will be made at the unit price per each to include all equipment, labor, new sign posts, materials and incidentals to furnish and install the sign post and install existing signs as indicated here in and shown on the plan sheets. The Contractor will be responsible for all costs to replace existing signs if damaged during removal or installation.

28. PERMANENT SIGNAGE

Furnish signs with messages as shown on the plans or as directed by the Engineer and that meet the requirements of Section 901 of the latest version of the NCDOT Standard Specifications for Roads and Structures and the Manual on Uniform Traffic Control Devices (MUTCD). Conform to the message layout, size, and color as required by the plans or as directed by the Engineer. Use prismatic retroreflective sheeting that meets the minimum retro-reflectivity values found in the latest edition of the MUTCD.

Permanent signage shall be installed in accordance with the latest version of the *NCDOT Standard Specifications for Roads and Structures, NCDOT Roadway Standard Drawings*, and the *MUTCD*. Signs provided for pedestrian and school crossings and zones shall use the strong yellow-green coloring rather than the traditional yellow of warning signs. Prismatic sheeting shall be a micro-prismatic lens reflective sheeting, classified using ASTM D4956-04. Sheeting types to be used are ASTM Type III, IV, and VI-X.

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Permanent Signage shall be considered full compensation for all equipment, materials, labor, fabrication, footings, supports, hardware, and incidentals for work associated with the installation of <u>new</u> permanent traffic signage at locations as shown on the plans.

Contractor shall submit a sample sign type or detailed submittal for approval by the Engineer prior to ordering the sign.

Use 3lb galvanized steel U-channel sign posts or steel square tube posts, as directed by the Engineer, of sufficient length to permit the appropriate sign mounting height. New sign post installations and locations with bus stop security lighting systems shall be smooth wall or "Telespar Qwik-Punch" with knockouts square tube signs, or equivalent approved by the Owner All sign posts used shall meet the requirements of Section 1094 of the latest version of the NCDOT Standard Specification for Roads and Structures.

Permanent Signage payments will be made at the unit price per square foot or as otherwise indicated in the itemized proposal and will include, but is not limited to, signage fabrication and installation, including 3 lb. galvanized steel U-channel posts, square posts, bolts, fabrication, machine work and any incidentals required to install the traffic signage.

29. ADJUST UTILITY BOX/VAULT

Adjust Utility Box/Vault will be constructed to adjust the existing utility box/vault vertically using the appropriate materials so that it is flush with the proposed surface. The Contractor's attention is directed to Article 858-3 of the latest version of the NCDOT Standard Specifications for Roads and Structures for applicable construction methods.

Adjust Utility Box/Vault payment will be made per utility box/vault satisfactorily adjusted. Such price includes, but is not limited to, removal of a portion of the existing structure, materials, labor, equipment, coordination, and tools necessary to complete the work. Existing frames and covers are to be salvaged and reused in the adjustment. Any coordination with the owner of the utility is to be done by the contractor in accordance with this contract and is to be considered incidental to the contract.

30.ADJUST WATER METER

Adjust Water Meter will be constructed to adjust the existing water meter vertically using the appropriate materials so that it is flush with the proposed surface. The Contractor's attention is directed to Article 858-3 of the latest version of the NCDOT Standard Specifications for Roads and Structures for applicable construction methods.

Adjust Water Meter payment will be made per water meter satisfactorily adjusted. Such price includes, but is not limited to, removal of a portion of the existing structure, materials, labor, equipment, coordination, and tools necessary to complete the work. Existing frames and covers are to be salvaged and reused in the adjustment. Any

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coordination with the owner of the utility is to be done by the contractor in accordance with this contract and is to be considered incidental to the contract.

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31.ADJUST MANHOLE

Adjust Manhole will be completed in accordance to Section 858 of the latest version of the NCDOT Standard Specifications for Roads and Structures.

Adjust Manhole payment will be made at the unit price per each manhole satisfactorily adjusted or as otherwise indicated in the itemized proposal and will include the labor, materials, and all other miscellaneous items needed to complete the adjustment.

32.-" RCP, CLASS -

_"RCP Class _ will be completed in accordance to Section 310 of the latest version of the NCDOT Standard Specifications for Roads and Structures at the size and class of pipe specified.

_"RCP Class _ payment will be made at the unit price per the actual number of linear feet of pipe that has been incorporated into the completed and accepted work or as otherwise indicated in the itemized proposal and will include the labor, materials, foundation conditioning materials, any required geotextile fabric, subgrade materials, any required undercut excavation, and all other miscellaneous items needed to satisfactorily install the pipe.

33. FRAME WITH GRATE STD.

Frame with Grate Std. _ will be completed in accordance to Section 840 of the latest version of the NCDOT Standard Specifications for Roads and Structures.

Frame with Grate Std. _ payment will be made at the unit price per each assembly incorporated into the completed and accepted work or as otherwise indicated in the itemized proposal and will include the labor, materials, grates, any hoods, covers, or grates required per the standard detail, and all other miscellaneous items needed to install the assembly.

34. MASONRY DRAINAGE STRUCTURES

Masonry Drainage Structures will be completed in accordance to Section 840 of the latest version of the NCDOT Standard Specifications for Roads and Structures.

Masonry Drainage Structures payment will be made at the unit price per each of the drainage structures constructed and approved or as otherwise indicated in the itemized proposal and will include the labor, materials, subgrade material, required steps and all other miscellaneous items needed to install the structure. No additional payment will be made for structures exceeding 5' in height unless otherwise noted by the engineer.

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35.CLASS - RIPRAP

Class - RipRap will be supplied and installed in accordance to Section 876 of the latest version of the NCDOT Standard Specifications for Roads and Structures.

Class - RipRap payment will be made at the unit price per ton of the class of riprap supplied, installed, and approved or as otherwise indicated in the itemized proposal and will include the labor, materials, and all other miscellaneous items needed to install the riprap.

36. GEOTEXTILE FABRIC

Geotextile Fabric will be supplied and installed in accordance to Section 876 of the latest version of the NCDOT Standard Specifications for Roads and Structures (see "Geotextile for Drainage").

Geotextile Fabric payment will be made at the unit price per square yard of geotextile fabric satisfactorily installed and approved or as otherwise indicated in the itemized proposal and will include the labor, materials, staples, pin, and all other miscellaneous items needed to install the geotextile fabric.

37.PLANT TREE

The height of the trees (measured from the crown of the roots to the tip of the top branch) shall not be less than the minimum size designated. Take caliber measurement six (6") inches above ground level up to and including four (4") inch caliber sizes and twelve (12") inches above the ground for larger sizes. The trunk of each tree shall be a single trunk growing from a single unmutilated crown of roots. No part of the trunk shall be conspicuously crooked as compared with normal trees of the same variety. The trunk shall be free from sunscald, frost cracks, or wounds resulting from abrasions, fire, or other causes. No pruning wounds shall be present having a diameter exceeding two inches and such wounds must show a vigorous bark on all edges. Plants shall not be pruned prior to delivery.

All woody trees and shrubs shall be balled and burlapped or grown in containers; barerooted trees or shrubs shall not be permitted.

For balled and burlapped trees and shrubs, burlap shall be 100% cloth burlap and must be moved with the root systems as solid units with balls of earth firmly wrapped with untreated eight (8) ounce burlap, firmly held in place by a stout cord. No poly-burlap shall be allowed on plant materials. Any use of wire cages shall be approved in writing by the Owner. Wire must not be galvanized or aluminum wire. Any balled and burlapped trees and shrubs delivered to the site with materials other than 100% cloth burlap shall automatically be rejected and the installer shall remove them from the site within twenty-four (24) hours.

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- A. The diameter and depth of the balls of earth must be sufficient to encompass the fibrous root feeding system necessary for the healthy development of the plant.
- B. No plant shall be accepted when the ball of earth surrounding its roots has been badly cracked or broken preparatory to or during the process of planting or after the burlap, staves, ropes, or platform required in connection with its transplanting have been removed.
- C. The plants and root balls shall remain intact during all operations.
- D. All plants that cannot be planted at once shall be heeled in by setting on the ground, covering the balls with soil, and watering them to maintain moisture level.

The Owner retains the right to observe trees and shrubs further for size and condition of balls and root systems, insects, injuries, and latent defects and to reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from the project site.

The Contractor shall be responsible for furnishing their own supply of water to the site at no extra cost. Any plant material injured or damaged due to the lack of water, or the use of too much water, shall be the Contractor's responsibility to correct. Water shall be free from impurities injurious to vegetation.

The Contractor shall submit a schedule for planting to the Owner for approval to ensure that the Schedule of Work will minimize the potential for plant damage and to insure timely installation of all material.

Do not prune trees and shrubs before delivery, except as approved by Owner. Protect bark, branches, and root systems from sun scald, drying, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of exterior plants during delivery. Do not drop exterior plants during delivery.

Planting restrictions shall be as follows:

- 1. Shrubs: Planting shall only occur between October 1 and April 31.
- 2. Non-woody plantings: Planting shall be installed during the commonly recognized planting times consistent with the specified plant species.
- 3. Coordinate planting periods with maintenance periods to provide required maintenance from date of Substantial Completion.
- 4. If overall project Substantial Completion occurs prior of the specified planting dates, planting shall not be installed until specified planting dates.

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Following completion of all plant material installation, the Contractor shall request the City in writing for a formal inspection of the planting.

If a substantial number of plants are sickly or dead at the time of final inspection, acceptance will not be granted, and the Contractor's responsibility for maintenance of all plants shall be extended until replacements are made. All dead and unsatisfactory plants shall be promptly removed from the project. Replacements shall conform in all respects to the specifications for new plants and shall be planted in the same manner and location. The Contractor shall maintain replacements during the Maintenance Period.

The Contractor is to provide complete Maintenance Service by skilled employees of landscape installer. Maintain as required by these specifications. The Contractor shall follow the following Maintenance period provisions:

- 1. Maintenance shall begin immediately after each plant is planted and shall continue through both Substantial Completion and the minimum twelve (12) month maintenance period as specified, herein.
- 2. After installation and before Substantial Completion, remove nursery stakes, tie tape, labels, wire, burlap, and other debris from plant material, plantings, and Project site. Remove tree stabilization materials at the end of the maintenance period, or as approved by Owner. Nursery tags with species name shall remain until the end of the maintenance period.
- 3. During the maintenance period, any decline in the condition of planted material shall require the Contractor to take immediate action to identify potential problems and undertake corrective measures.

Following planting and anytime during the Maintenance Period, plantings that die or show obvious decline or loss of more than ten (10%) percent of healthy growth, shall be removed and replaced at once unless designated otherwise in writing by the City. Replacements shall conform in all respects to the specifications for new plants and shall be planted in the same manner and location.

The Contractor is to warrant all installed exterior plants for the warranty period indicated against defects including death and unsatisfactory growth.

The warranty period for all plants shall be twelve (12) months from date of Substantial Completion, unless plantings are installed during their required planting date following Substantial Completion. End of Warranty period will be tied to twelve (12) months from Substantial Completion.

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Plants shall be alive and in satisfactory growth at the end of the Warranty Period. Plants that die or show obvious decline or loss of healthy growth during the Warranty Period shall be removed and replaced, unless designated otherwise by the Owner. Each plant shall show at least ninety- five (95%) percent healthy growth and shall have the natural character of a plant of its species in accordance with the American Nurserymen's Association Standards. Dead or unsatisfactory plants shall be replaced only during the specified planting season.

All replacements shall be plants of the same species, variety, and size specified in the Plant Schedule and all material, installation, and incidental costs shall be borne by the Contractor, except for possible replacements due to vandalism or neglect on the part of others.

Plant Tree payment will be made at the unit price per each tree planted and accepted by the Owner and will include all equipment, labor, tree, materials, water, maintenance required during the warranty period, and incidentals to install and maintain the tree as directed. Watering will be considered incidental to this item. Any tree removed during demolition that was not marked for removal on the plans or by the Engineer should be replaced by a tree of the same species at no additional cost to the City.

38. SURVEY CONSTRUCTION STAKES

Survey CADD files will be provided to the Contractor at their request for use in staking the construction layout, right-of-way or easements on proposed improvements. The Contractor will be responsible for any staking and this work will be considered incidental to the contract.

39.MATERIALS SAMPLING & TESTING

The Contractor is responsible for the quality control of his/her work including but not limited to compaction of subgrade, compaction of aggregate base course, strength of concrete, etc. The Owner may use an independent testing laboratory to test areas found to be noncompliant. The Contractor will be responsible for all repair and replacement costs including retesting costs for areas found to be noncompliant.

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40.CLEARING AND GRUBBING

The Contractor shall furnish all labor, equipment, materials, tools, etc. and shall perform all clearing and grubbing of trees, down timber, logs, snags, brush undergrowth, heavy growth of grass or weeds, debris, and rubbish, etc. All such material shall be disposed of by burning (when permitted), suitable removal from the site, or other means acceptable to the Engineer.

The width of clearing for the project shall be limited to the right of way and/or temporary and permanent easements as noted on the drawings. The entire width of the permanent easement is to be cleared unless otherwise indicated by clearing limits noted on the drawings. Clearing and grubbing shall be conducted in a manner to prevent damage to vegetation that is intended to remain growing and also to prevent damage to adjacent property.

The Engineer will designate all areas of growth or individual trees inside the clearing limits, which are to be preserved due to their desirability. The trees to be preserved will be shown in the Contract Documents or designated by the Engineer.

All spoil materials that are removed by clearing and grubbing operations shall be adequately disposed of, removed from the site or burned if permitted by the appropriate authorities. The contractor shall be responsible for controlling fires in compliance with all Federal, State or local laws.

All work performed under this section shall cause a minimum of erosion and sediment pollution as outlined in this contract. Installation of temporary or permanent erosion control measures shall occur immediately after clearing and grubbing operations have begun or as directed by the Engineer.

No direct payment will be made for this work, as the cost of this work is being paid for at the contract lump sum price for *Demolition*.

09/25/2023 41.SHOULDER AND FILL SLOPE MATERIAL (LUMP SUM EARTHWORK)

Perform the required shoulder and slope construction for this project in accordance with the applicable requirements of Section 226 of the Standard Specifications except as follows:

- Construct the top 6 inches of shoulder and fill slopes with soils capable of supporting vegetation.
- Provide soil with a P.I. greater than 6 and less than 25 and with a pH ranging from 5.5 to 6.8. Remove stones and other foreign material 2 inches or larger in diameter. All soil is subject to test and acceptance or rejection by the Engineer.
- Obtain material from approved borrow site. The Contractor is responsible for any erosion control requirements of off-site borrow sites.

No direct payment will be made for this work, as the cost of this work will be considered to be covered under the contract lump sum price for *Earthwork*.

42. BURNING RESTRICTIONS

Open burning is not permitted on any portion of the 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.

09/25/2023 43.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 Owner, 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 Owner 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 Contractor shall be responsible for coordinating concurrent construction directly with utility owner representatives. Coordination efforts and concurrent construction conflicts will be addressed and discussed during the pre-construction meeting. The Owner, at the time of pre-construction conference, will provide names, addresses and telephone numbers of private utility owner representatives.

All underground utilities may not have been identified. 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.

09/25/2023

44. NCDOT ERRATA

Revise the NCDOT 2018 Standard Specifications as follows:

Division 6

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

Division 7

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

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

Division 10

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

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

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

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

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

Division 17

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

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

Directional Drill (1)(1.25") Linear Foot END OF SECTION