



PAT McCrory  
Governor

NICHOLAS J. TENNYSON  
Secretary

March 7, 2016

**Addendum No. 1**

RE: Contract # C203785  
 WBS # 53030.3.1, 53059.3.1  
 F. A. # NHPIM-0085(4), NHPIM-0085(8)  
**Guilford County (I-5790, I-5855)**  
 I-85 From South Elm Eugene Street To I-40 In Greensboro

**March 15, 2016 Letting**

To Whom It May Concern:

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

The following revisions have been made to the plans:

Sheet No.	Revisions
TMP-1B and TMP-1C	Revised to reflect the changes in the Intermediate Contract Times in the proposal as mentioned below

Please void Sheet Nos. TMP-1B and TMP-1C in your plans and staple the revised Sheet Nos. TMP-1B and TMP-1C thereto.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 03-07-16"
Table of Contents (two pages)	Revised to reflect adding ICT# 6 as noted below
G-1	Revised "Day and Time Restrictions" within the project special provision entitled "Intermediate Contract Time Number 1 And Liquidated Damages"
G-2 and G-3	Revised "Day and Time Restrictions" within the project special provisions entitled "Intermediate Contract Time Number 2 And Liquidated Damages" and "Intermediate Contract Time Number 3 And Liquidated Damages"
G-4 and New G-4A	Added the project special provision entitled "Intermediate Contract Time Number 6 And Liquidated Damages"

Please void the above listed pages in your proposal and replace with the revised pages. Please add New Page No. G-4A after revised Page No. G-4.




On the item sheets the following pay item quantity changes have been made, items deleted and new items added:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
021-4405000000-E-1110	Work Zone Signs (Portable)	566 SF	758 SF
024-4420000000-N-1120	Portable Changeable Message Sign	5 EA	12 EA
027-4480000000-N-1165	TMA	4 EA	6 EA

The Contractor's bid must include these pay item quantity changes. The contract will be prepared accordingly.

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

Sincerely,



R. A. Garris, PE  
Contract Officer

RAG/jag

cc: Mr. Ron Hancock, PE  
Mr. Mike Mills PE  
Mr. Rodger Rochelle, PE  
Mr. R.E. Davenport, PE  
Mr. Ken Kennedy, PE  
Ms. Jaci Kincaid  
Project File (2)

Mr. Ray Arnold, PE  
Ms. Theresa Canales, PE  
Ms. Marsha Sample  
Mr. Mike Gwyn  
Ms. Penny Higgins  
Ms. Lori Strickland

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

PROPOSAL

**INCLUDES ADDENDUM No. 1 DATED 03-07-16**

DATE AND TIME OF BID OPENING: **MARCH 15, 2016 AT 2:00 PM**

CONTRACT ID      C203785  
WBS                53030.3.1, 53059.3.1

FEDERAL-AID NO. NHPIM-0085(4), NHPIM-0085(8)  
COUNTY            GUILFORD  
T.I.P. NO.         I-5790, I-5855  
MILES               8.771  
ROUTE NO.         I 85  
LOCATION            I-85 FROM SOUTH ELM EUGENE STREET TO I-40 IN GREENSBORO.

TYPE OF WORK    PAVEMENT AND BRIDGE REHABILITATION.

**NOTICE:**

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

**BIDS WILL BE RECEIVED AS SHOWN BELOW:**

**THIS IS A ROADWAY & STRUCTURE PROPOSAL**

**5% BID BOND OR BID DEPOSIT REQUIRED**

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

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

108

SP1 G10 A

The date of availability for this contract is **May 2, 2016**.

The completion date for this contract is **September 15, 2017**.

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

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

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

(2-20-07)

108

SP1 G14 C

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for lane closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow a **lane** of traffic on **I-85 and multi-lane ramps** during the following time restrictions:

**DAY AND TIME RESTRICTIONS****(For All Asphalt Rehabilitation Operations)****Monday to Sunday****From 6:00 a.m. to 8:00 p.m.****(For All Concrete Bridge Rehabilitation Operations)****Monday thru Friday****From 6:00 a.m. to 8:00 p.m.****and****Saturday and Sunday****From 10:00 a.m. to 8:00 p.m.**

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for the lane closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the lane closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern.

The liquidated damages are **One Thousand Dollars (\$1,000.00)** per 15 minute time period.

**INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:**

(2-20-07)

108

SPI G14 C

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for lane closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow **two lanes** of traffic on **I-85** during the following time restrictions:

DAY AND TIME RESTRICTIONS

**(For All Asphalt Rehabilitation Operations)**

**Monday to Sunday**

**From 6:00 a.m. to 10:00 p.m.**

**(For All Concrete Bridge Rehabilitation Operations)**

**Monday thru Friday**

**From 6:00 a.m. to 10:00 p.m.**

**and**

**Saturday and Sunday**

**From 10:00 a.m. to 10:00 p.m.**

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for the lane closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the lane closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern.

The liquidated damages are **One Thousand Five Hundred Dollars (\$1,500.00)** per 15 minute time period.

**INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES:**

(2-20-07)

108

SPI G14 C

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for lane closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow **three lanes** of traffic on **I-85** during the following time restrictions:

DAY AND TIME RESTRICTIONS

**(For All Asphalt Rehabilitation Operations)**

**Monday to Sunday**

**From 6:00 a.m. to 12:00 a.m. (Midnight)**

**(For All Concrete Bridge Rehabilitation Operations)**

**Monday thru Friday**

**From 6:00 a.m. to 12:00 a.m. (Midnight)**

**and**

**Saturday and Sunday**

**From 10:00 a.m. to 12:00 a.m. (Midnight)**

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for the lane closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the lane closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern.

The liquidated damages are **Two Thousand Dollars (\$2,000.00)** per 15 minute time period.

**INTERMEDIATE CONTRACT TIME NUMBER 4 AND LIQUIDATED DAMAGES:**

(2-20-07)

108

SP1 G14 B

The Contractor shall not narrow or close a lane of traffic on **I-85**, detain and /or alter the traffic flow on or during holiday weekends, special events, or any other time when traffic is unusually heavy, including the following schedules:

**HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS**

1. For **unexpected occurrence** that creates unusually high traffic volumes, as directed by the Engineer.
2. For **New Year's Day**, between the hours of **6:00 a.m.** December 31st and **8:00 p.m.** January 2nd. If New Year's Day is on a Friday, Saturday, Sunday or Monday, then until **8:00 p.m.** the following Tuesday.
3. For **Easter**, between the hours of **6:00 a.m.** Thursday and **8:00 p.m.** Monday.
4. For **Memorial Day**, between the hours of **6:00 a.m.** Friday and **8:00 p.m.** Tuesday.
5. For **Independence Day**, between the hours of **6:00 a.m.** the day before Independence Day and **8:00 p.m.** the day after Independence Day.

If **Independence Day** is on a Friday, Saturday, Sunday or Monday, then between the hours of **6:00 a.m.** the Thursday before Independence Day and **8:00 p.m.** the Tuesday after Independence Day.

6. For **Labor Day**, between the hours of **6:00 a.m.** Friday and **8:00 p.m.** Tuesday.



7. For **Thanksgiving Day**, between the hours of **6:00 a.m.** Tuesday and **8:00 p.m.** Monday.
8. For **Christmas**, between the hours of **6:00 a.m.** the Friday before the week of Christmas Day and **8:00 p.m.** the following Tuesday after the week of Christmas Day.

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

**When Holiday and Holiday Weekend Lane Closure Restrictions are no longer in effect, then the Day and Time Restrictions shall be in effect.**

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

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

The liquidated damages are **Two Thousand Dollars (\$2,000.00)** per 15 minute time period.

**INTERMEDIATE CONTRACT TIME NUMBER 5 AND LIQUIDATED DAMAGES:**

(2-20-07)

108

SPI G14 D

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for road closures and restoring traffic to the existing traffic pattern. The Contractor shall not close any **I-85 single lane ramps or loops** during the following time restrictions:

DAY AND TIME RESTRICTIONS

**Monday to Sunday  
From 6:00 a.m. to 12:00 a.m. (Midnight)**

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for road closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the road closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern

The liquidated damages are **One Thousand Dollars (\$1,000.00)** per 15 minute time period.

**INTERMEDIATE CONTRACT TIME NUMBER 6 AND LIQUIDATED DAMAGES:**

(5-21-13)

108

SP1 G14 I

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

The time of availability for this intermediate contract time is the **day at 12:00 a.m. (Midnight)** that the Contractor elects to begin the work.

The completion time for this intermediate contract time is the **following 6:00 a.m.** after the time of availability.

The liquidated damages are **Five Hundred Dollars (\$ 500.00)** per hour.

**MAJOR CONTRACT ITEMS:**

(2-19-02)

104

SP1 G28

The following listed items are the major contract items for this contract (see Article 104-5 of the *2012 Standard Specifications*):

<b>Line #</b>	<b>Description</b>
15	Joint Construction, Repair & Sealing
16	Diamond Grinding PCC Pavement

County : Guilford

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>ROADWAY ITEMS</b>						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0036000000-E	225	UNDERCUT EXCAVATION	293 CY		
0003	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	1,758 SY		
0004	0314000000-E	SP	SELECT MATERIAL, CLASS ***** (IV)	791 TON		
0005	1077000000-E	SP	#57 STONE	264 TON		
0006	1220000000-E	545	INCIDENTAL STONE BASE	1,184 TON		
0007	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	56,203 SY		
0008	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	4,756 TON		
0009	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	280 TON		
0010	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	74 TON		
0011	1702000000-E	657	SEALING EXISTING PAVEMENT CRACKS & JOINTS	250.7 LB		
0012	1737000000-E	SP	PATCHING CONCRETE PAVEMENT SPALLS	3,255 SF		
0013	1820000000-E	SP	ASPHALT SURFACE TREATMENT, FOG SEAL	220,909 SY		
0014	1880000000-E	SP	GENERIC PAVING ITEM 3" PATCHING OF EXISTING PAVEMENT	14,676 TON		
0015	1881000000-E	SP	GENERIC PAVING ITEM JOINT CONSTRUCTION, REPAIR & SEALING	521,620 LF		
0016	1891000000-E	SP	GENERIC PAVING ITEM DIAMOND GRINDING PCC PAVEMENT	444,692 SY		

County: Guilford

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0017	1891000000-E	SP	GENERIC PAVING ITEM REPAIR OF JOINTED CONCRETE PAVEMENT SLABS	879 SY		
0018	1902000000-N	710	SURFACE TESTING CONCRETE PAVE- MENT	Lump Sum	L.S.	
0019	2752000000-E	SP	GENERIC PAVING ITEM MILLED RUMBLE STRIPS (CONCRETE SHOULDER)	194,081 LF		
0020	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	600 SF		
0021	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	758 SF		
0022	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	32 SF		
0023	4415000000-N	1115	FLASHING ARROW BOARD	6 EA		
0024	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	12 EA		
0025	4430000000-N	1130	DRUMS	250 EA		
0026	4445000000-E	1145	BARRICADES (TYPE III)	40 LF		
0027	4480000000-N	1165	TMA	6 EA		
0028	4516000000-N	1180	SKINNY DRUM	250 EA		
0029	4520000000-N	1266	TUBULAR MARKERS (FIXED)	20 EA		
0030	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	330 LF		
0031	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	318 LF		
0032	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	24 EA		
0033	4805000000-N	1205	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (II)	38 EA		

County: Guilford

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0034	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	563,360 LF		
0035	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	34,720 LF		
0036	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	80 EA		
0037	4847100000-E	1205	POLYUREA PAVEMENT MARKING LINES (6", *****) (HIGHLY REFLECTIVE ELEMENTS)	325,568 LF		
0038	4847120000-E	1205	POLYUREA PAVEMENT MARKING LINES (12", *****) (HIGHLY REFLECTIVE ELEMENTS)	21,944 LF		
0039	4855000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (6")	330,401 LF		
0040	4865000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (12")	24,732 LF		
0041	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	35 EA		
0042	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM EPOXY PAVEMENT MARKING LINES (BLACK, 12")	744 LF		
0043	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM EPOXY PAVEMENT MARKING LINES (BLACK, 6")	63,520 LF		
0044	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	4,248 EA		
0045	4960000000-N	SP	GENERIC TRAFFIC CONTROL ITEM REPLACE EXISTING BARRIER DELINEATOR	535 EA		
0046	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0047	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	600 LF		

County: Guilford

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>STRUCTURE ITEMS</b>						
0048	8692000000-N	SP	FOAM JOINT SEALS	Lump Sum	L.S.	
0049	8882000000-E	SP	GENERIC STRUCTURE ITEM ELASTOMERIC CONCRETE	291 CF		
0050	8892000000-E	SP	GENERIC STRUCTURE ITEM BRIDGE JOINT DEMOLITION	1,160 SF		
1219/Mar07/Q2840591.7/D187352320000/E50			<b>Total Amount Of Bid For Entire Project :</b>			

## GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

### TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW ONE TRAVEL LANE IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
(FOR ALL ASPHALT REHABILITATION OPERATIONS)	
I-85 AND MULTI-LANE RAMPS AND LOOPS	MONDAY TO SUNDAY FROM 6:00 AM TO 8:00 PM
(FOR ALL CONCRETE BRIDGE REHABILITATION OPERATIONS)	
I-85	MONDAY THRU FRIDAY FROM 6:00 A.M. TO 8:00 P.M. SATURDAY AND SUNDAY FROM 10:00 A.M. TO 8:00 P.M.

B) DO NOT CLOSE OR NARROW TWO TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
(FOR ALL ASPHALT REHABILITATION OPERATIONS)	
I-85	MONDAY TO SUNDAY 6:00 AM TO 10:00 PM
(FOR ALL CONCRETE BRIDGE REHABILITATION OPERATIONS)	
I-85	MONDAY THRU FRIDAY FROM 6:00 A.M. TO 10:00 P.M. SATURDAY AND SUNDAY FROM 10:00 A.M. TO 10:00 P.M.

C) DO NOT CLOSE OR NARROW THREE TRAVEL LANES IN A SINGLE DIRECTION AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
(FOR ALL ASPHALT REHABILITATION OPERATIONS)	
I-85	MONDAY TO SUNDAY FROM 6:00 A.M. TO 12:00 A.M. (MIDNIGHT)
(FOR ALL CONCRETE BRIDGE REHABILITATION OPERATIONS)	
I-85	MONDAY THRU FRIDAY FROM 6:00 A.M. TO 12:00 A.M. (MIDNIGHT) SATURDAY AND SUNDAY FROM 10:00 A.M. TO 12:00 A.M. (MIDNIGHT)

D) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME	HOLIDAY
I-85	
1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.	
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.	
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.	
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.	

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

E) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85 SINGLE LANE RAMPS AND LOOPS	MONDAY TO SUNDAY 6:00 A.M. TO 12:00 A.M. (MIDNIGHT)

### LANE AND SHOULDER CLOSURE REQUIREMENTS

F) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

J) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

K) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

L) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 1000 FEET IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

M) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

### SIGNING

N) INSTALL ADVANCE WORK ZONE WARNING SIGNS NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

O) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

P) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### TRAFFIC CONTROL DEVICES

R) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADIUS, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES), AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

U) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

V) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

### MISCELLANEOUS

Y) LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

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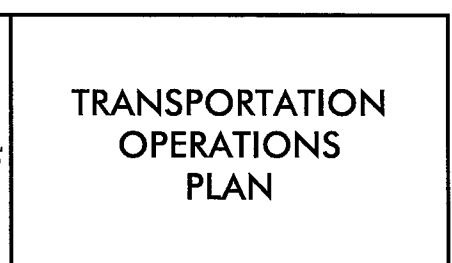
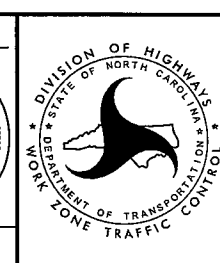
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APPROVED: *Steve Miller*

DATE: 3/3/2016

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### **MANAGEMENT STRATEGIES**

- MAINTAIN I-85 TRAFFIC THROUGH LANE CLOSURES
- RAMPS AND LOOPS MAY BE CLOSED AND TRAFFIC DETOURED OFF SITE
- PROVIDE THIRTY (30) CALENDAR DAYS NOTICE TO THE ENGINEER, GUILFORD COUNTY EMERGENCY SERVICES, AND GUILFORD COUNTY SCHOOL OFFICIALS PRIOR TO ROAD CLOSURE

### **PHASING**

- STEP 1: USING RSD 1101.01 SHEET 1 OF 3, PLACE ADVANCE WARNING SIGNS ALONG I-85 AND RAMPS WHERE NECESSARY.
- STEP 2: NOTE: THE CONTRACTOR MUST COMPLETE THE BRIDGE REHABILITATION IN EACH DIRECTION BEFORE PROCEEDING WITH THE PAVEMENT REHABILITATION IN THAT DIRECTION. USING RSD 1101.02 SHEETS 4, 8, 9, AND 10 OF 15, COMPLETE PAVEMENT REHABILITATION OPERATIONS FOR THE ESTABLISHED WORK AREA, PLACING TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS NECESSARY. INTERCHANGE RAMPS AND LOOPS MAY BE CLOSED USING RSD 1101.03 SHEETS 1 AND 2 OF 9. SEE TMP-2 THROUGH TMP-15 FOR ADDITIONAL CLOSURE SIGNS AND THE OFF SITE DETOUR FOR EACH RAMP. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL NOT CLOSE ANY RAMP OR LANE OF A RAMP THAT IS INCLUDED AS PART OF AN ACTIVE DETOUR.
- STEP 3: REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

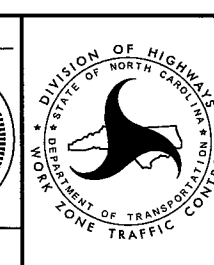
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**TRANSPORTATION OPERATIONS PLAN**