B-3863

TIP PROJECT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-3863	TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

JOHNSTON COUNTY

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.NO.	TITLE
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES - TYPE III
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

SHEET NO.	
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, INDEX OF SHEETS, PHASING, LOCAL NOTES, LEGEND, AND PAVEMENT MARKING SCHEDULE
TCP-2	PROJECT NOTES
TCP-3 & 4	OFF-SITE DETOUR

Pavement Marking Schedule

SYMBOL	DESCRIPTION	PAY ITEM QUANTITY BREAKDOWN		TOTAL QUANTITY	
	FINAL PAVEMENT MARKINGS				
	POLYUREA (4") Standard Glass Beads				
VA	WHITE EDGELINE	1700	LF		
VI	YELLOW DOUBLE CENTER	1700	LF		
		TOTAL		3400	LF
	MARKERS				
	PERMANENT RAISED PAVEMENT MARKERS				
MA	YELLOW & YELLOW	14	EA		
		TOTAL		14	EA

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT. --------- EXIST. PVMT.
- WORK AREA
- REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

- TYPE I BARRICADE
- TYPE II BARRICADE
- TYPE III BARRICADE
- CONE
- DRUM
- SKINNY DRUM
- FLASHING ARROW PANEL (TYPE C)
- STATIONARY SIGN
- PORTABLE SIGN
- STATIONARY OR PORTABLE SIGN
- CRASH CUSHION
- CHANGEABLE MESSAGE SIGN
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- POLICE
- FLAGGER

PAVEMENT MARKINGS

- CRYSTAL/CRYSTAL PAVEMENT MARKER
- YELLOW/YELLOW PAVEMENT MARKER
- CRYSTAL/RED PAVEMENT MARKER
- PAVEMENT MARKING SYMBOLS

APPROVED: Jessica Kuse
DATE: 1/19/07

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 027811 ENGINEER JESSICA D. KUSE

PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT

J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
J. S. KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
J. D. KUSE, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
D. W. BISSETTE, P.E. TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

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PROJ. REFERENCE NO.	SHEET NO.
B-3863	TCP-2

PROJECT NOTES

GENERAL NOTES

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

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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

A) 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 A 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.

B) DO NOT EXCEED A DIFFERENCE OF 1.5 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING *UNEVEN LANES* SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

C) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

D) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT.

E) PROVIDE PERMANENT SIGNING.

F) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.

G) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.

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

TRAFFIC CONTROL DEVICES

I) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.

PAVEMENT MARKINGS AND MARKERS

J) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
SR 1722	POLYUREA	RAISED REFLECTIVE

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

PHASING

STEP 1 INSTALL SIGNS AND BARRICADES CLOSING SR 1720 TO THROUGH TRAFFIC AS SHOWN ON TCP-3 AND TCP-4 AND IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9 AND ROADWAY STANDARD DRAWING 1145.01, SHEET 1 OF 1. (SEE LOCAL NOTES NO. 1 and 2)

STEP 2 CONSTRUCT THE FOLLOWING WITHIN THE ROAD CLOSURE: (SEE LOCAL NOTES NO. 3, 4 AND 5)
-CONSTRUCT -DRIVE- FROM STA. 10+10+/- TO STA. 12+04+/-
-REMOVE THE EXISTING STRUCTURE
-CONSTRUCT THE PROPOSED STRUCTURE
-CONSTRUCT THE PROPOSED ROADWAY SECTION -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE FROM STA. 15+50+/- TO STA. 17+82+/- AND FROM STA. 19+77+/- TO STA. 22+00+/-

STEP 3 PLACE THE FINAL LAYER OF SURFACE COURSE AND APPLY THE FINAL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON -L- FROM STA. 15+50+/- TO STA. 22+00+/-. (SEE LOCAL NOTE NO. 6)

STEP 4 REMOVE ALL BARRICADES, ROAD CLOSED SIGNS AND DETOUR SIGNS AND OPEN SR 1720 TO THROUGH TRAFFIC. (SEE LOCAL NOTE NO. 1)

LOCAL NOTES

1. INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE THE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
2. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
3. MAINTAIN DRIVEWAY ACCESS WITHIN PROJECT LIMITS USING INCIDENTAL STONE.
4. USE FLAGGERS AS NEEDED TO MAINTAIN LOCAL TRAFFIC WITHIN ROAD CLOSURE. FLAGGING WILL BE INCIDENTAL TO THE COST OF THE CONTRACT.
5. CLOSE THE EXISTING DRIVEWAY WITH BARRICADES AFTER COMPLETING -DRIVE-.
6. REAPPLY PAVEMENT MARKINGS UP TO 100' BEYOND CONSTRUCTION LIMITS IF NEEDED TO REPAIR DAMAGE AND/OR TRACKING FROM CONSTRUCTION.

APPROVED: Jessica Kuss DATE: 1/19/07

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 027811 ENGINEER JESSICA D. KUSS

PROJECT NOTES

SCALE:	NONE
DATE:	08/08
DWG. BY:	DWB
DESIGN BY:	DWB
REVIEWED BY:	JDK

DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

REVISIONS

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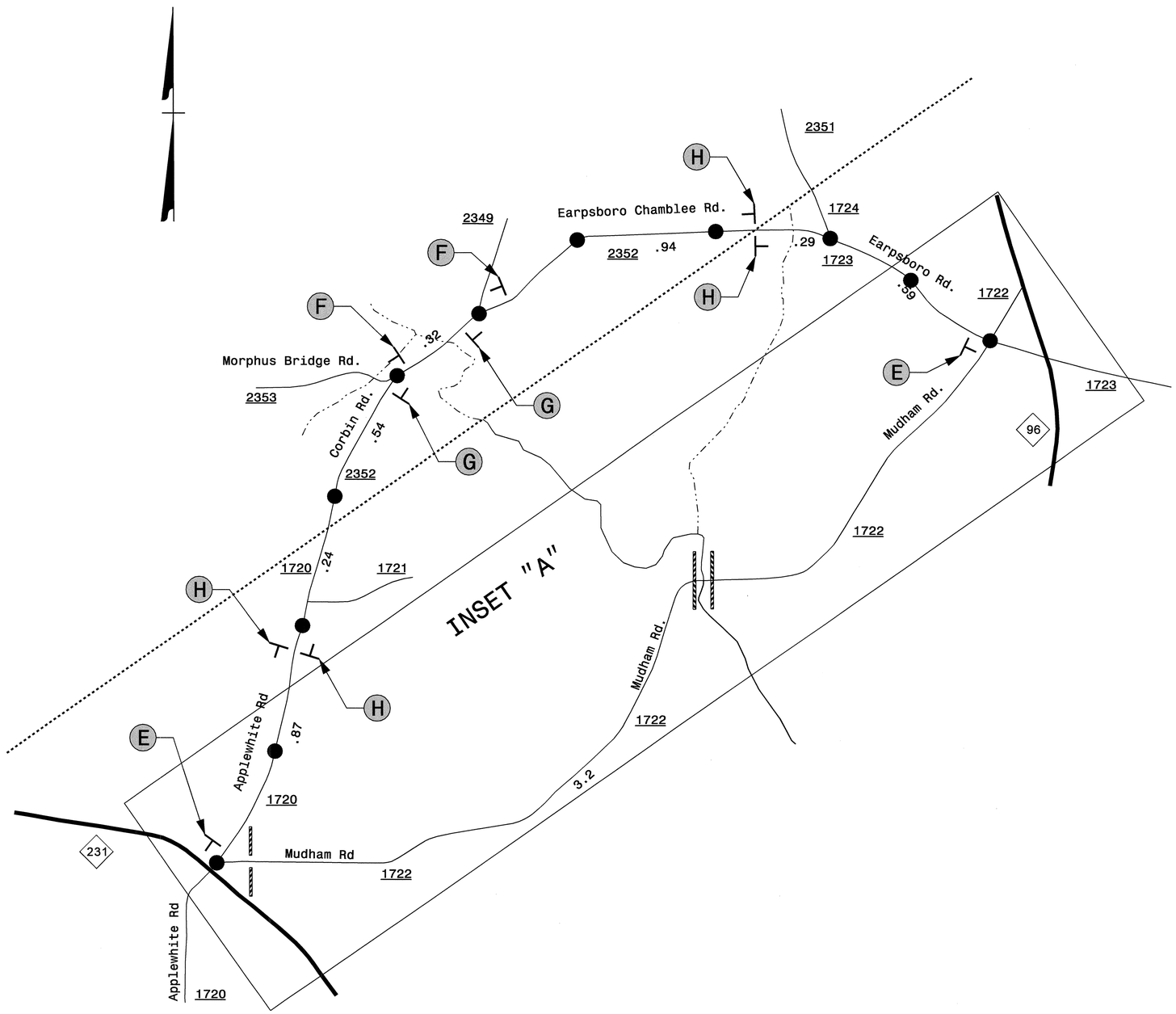
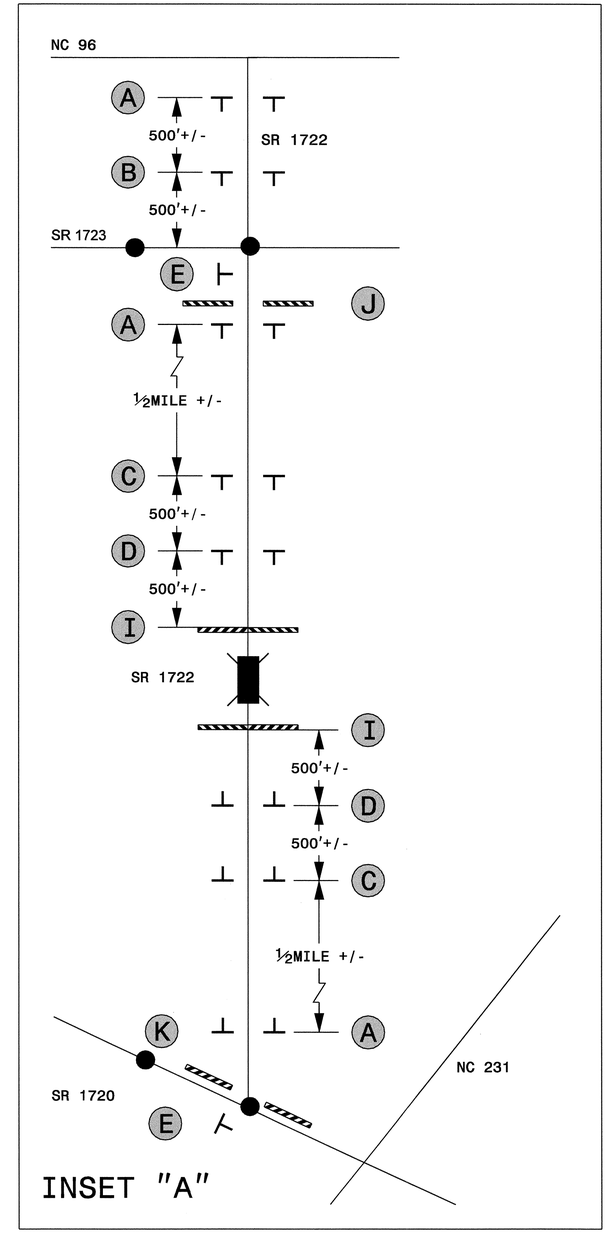
PROJ. REFERENCE NO.	SHEET NO.
B-3863	TCP-3





APPROVED: Jessica Kise DATE: 5/31/07

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 027811 ENGINEER JESSICA D. KISE

OFF-SITE DETOUR

SCALE:	NONE
DATE:	08/06
DWG. BY:	DWB
DESIGN BY:	DWB
REVIEWED BY:	JDK

REVISIONS

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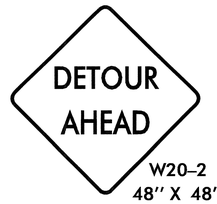
dwbissette AT WZTC224102

PROJ. REFERENCE NO.	SHEET NO.
B-3863	TCP-4

W20-3
48" X 48"

A
(6)



W20-2
48" X 48"

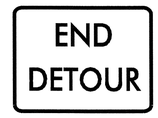
B
(2)

W20-3
48" X 48"

C
(4)

W20-3
48" X 48"

D
(4)



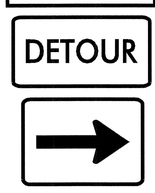
M4-8 A
24" X 18"

E
(2)

M4-8
24" X 12"

M6-1 L
21" X 15"

F
(2)



M4-8
24" X 12"

M6-1
21" X 15"

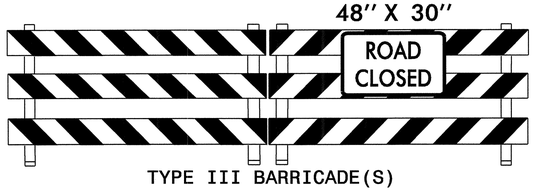
G
(2)

M4-8
24" X 12"

M6-3
21" X 15"

H
(4)

R11-2
48" X 30"



TYPE III BARRICADE(S)

I
(2)

R11-2
48"X30"

M4-10R
48"X18"

TYPE III BARRICADE

J
(2)

R11-2
48"X30"

M4-10L
48"X18"

TYPE III BARRICADE

K
(2)

N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT

SIGN NUMBER: SP06421
TYPE: D
QUANTITY: 1

SIGN WIDTH: 36"
HEIGHT: 24"
TOTAL AREA: 6.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0.38"
WIDTH: 0.63"
RADII: 1.5"

NO. Z BARS:
LENGTH:

Fluorescent Orange
Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM
0.079" COMPOSITE

USE NOTES:
1. Legend and border shall be direct applied non-reflective sheeting.
2. Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.

DESIGN BY: R. HENNEIN
PROJECT ID: B-3863
CHECKED BY:
DIV: 4
STD #: N/A
DATE: Oct 09,2006

LETTER POSITIONS

Letter spacings are to start of next letter

																												Series/Size Text Length
	M	U	D	H	A	M																						C 2000
4.3	5.3	4.7	4.6	4.2	4.7	4	4.3																					27.4
	R	O	A	D																								C 2000
9.7	4.3	4.3	4.7	3.4	9.7																							16.6

Spacing Factor is 1 unless specified otherwise

FILENAME: SP06421mudhamroad

NORTH CAROLINA D.O.T. SIGN DETAIL

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

APPROVED: DATE: 5/31/07

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 027811 ENGINEER JESSICA D. KUSE

OFF-SITE DETOUR

SCALE:	NONE
DATE:	10/06
DWG. BY:	DWB
DESIGN BY:	DWB
REVIEWED BY:	JDK

REVISIONS

CADD FILE

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