STATE PROJECT REFERENCE NO. B-3635

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

CHEROKEE COUNTY

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" -PROJECT SERVICES UNIT-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 |
|----------|---|
| 1101.02 | TEMPORARY LANE CLOSURES |
| 1101.03 | TEMPORARY ROAD CLOSURES |
| 1101.05 | WORK ZONE VEHICLE ACCESSES |
| 1101.06 | WARNING SIGNS FOR BLASTING ZONES |
| 1101.11 | TRAFFIC CONTROL DESIGN TABLES |
| 1110.01 | STATIONARY WORK ZONE SIGNS |
| 1110.02 | PORTABLE WORK ZONE SIGNS |
| 1130.01 | DRUMS |
| 1135.01 | CONES |
| 1145.01 | BARRICADES |
| 1150.01 | FLAGGERS |
| 1160.01 | TEMPORARY CRASH CUSHION |
| 1165.01 | TRUCK MOUNTED IMPACT ATTENUATOR |
| 1170.01 | PORTABLE CONCRETE BARRIER |
| 1205.01 | PAVEMENT MARKINGS - LINE TYPES & OFFSETS |
| 1205.02 | PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS |
| 1205.12 | PAVEMENT MARKINGS - BRIDGES |
| 1250.01 | PAVEMENT MARKER SPACING |
| 1251.01 | RAISED PAVEMENT MARKERS-TEMPORARY AND PERMANENT |
| 1261.01 | GUARDRAIL & BARRIER DELINEATOR SPACING |
| 1261.02 | GUARDRAIL & BARRIER DELINEATOR TYPES |
| 1262.01 | GUARDRAIL END DELINEATION |

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| TCP-1 | LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND INDEX OF SHEETS |
| TCP-2 | PROJECT NOTES |
| TCP-3 | PHASING |
| TCP-4 | PHASE 1 DETAILS |
| TCP-5 | PHASE 2 DETAILS |
| PM - 1 | PAVEMENT MARKINGS AND SCHEDULES |

LEGEND

GENERAL

DIRECTION OF TRAFFIC FLOW

──── NORTH ARROW

— PROPOSED PVMT. ----- EXIST. PVMT.

WORK AREA

REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

T TYPE I BARRICADE

TYPE III BARRICADE

CONE

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

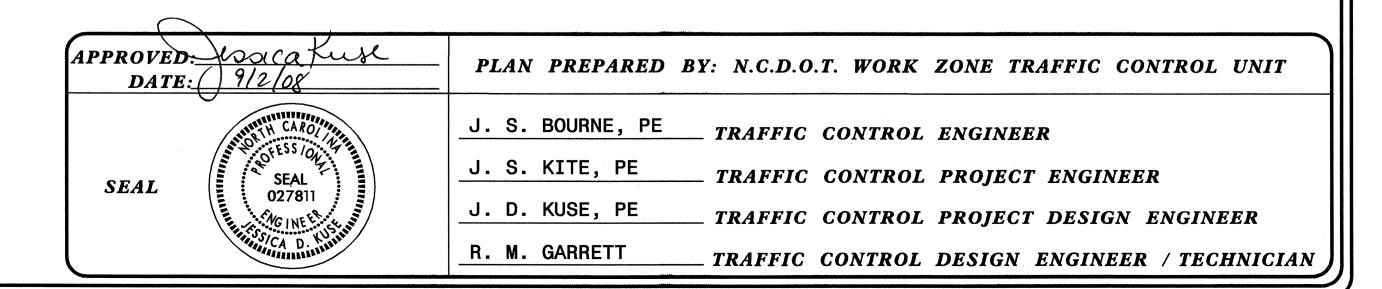
PAVEMENT MARKINGS

CRYSTAL/CRYSTAL PAVEMENT MARKER

YELLOW/YELLOW PAVEMENT MARKER

CRYSTAL/RED PAVEMENT MARKER

PAVEMENT MARKING SYMBOLS



2

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.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) 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.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN 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.
- C) 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.
- D) 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.
- E) 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

F) 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.

G) 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) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- INSTALL ADVANCE WORK ZONE WARNING SIGNS NO MORE THAN THREE
 (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- J) STATE FORCES WILL BE RESPONSIBLE FOR PERMANENT SIGNING.
- K) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- L) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

PROJECT NOTES

M) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 250 FEET IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

TRAFFIC CONTROL DEVICES

- P) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- Q) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED. OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME

MARKING

NONE

JUNALUSKA RD

PAINT

T MARKINGS AND TEMPODARY DAVEMENT

MARKER

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

ROAD NAME

MARKING

MARKER

JUNALUSKA RD

PAINT

TEMP. RAISED

- T) PLACE TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE. PLACE THE SECOND APPLICATION OF PAINT UPON SUFFICIENT DRYING TIME OF THE FIRST.
- U) 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.
-) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

PAVEMENT MARKINGS AND MARKERS (CONT.)

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

MISCELLANEOUS

S) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 500 FT AND 1000 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

PROJ. REFERENCE NO.

B-3635

SHEET NO.

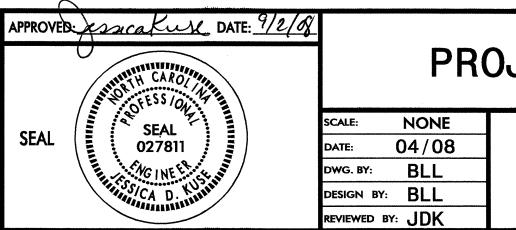
TCP-2

LOCAL NOTES

- 1. MAINTAIN ACCESS TO ALL DRIVEWAYS BEHIND PORTABLE CONCRETE BARRIER WITHIN THE PROJECT LIMITS, AND MAINTAIN ALL DRIVEWAYS WITHIN THE PROJECT LIMITS WITH INCIDENTAL STONE AS NEEDED.
- 2. ALL TRAFFIC SHALL BE RETURNED TO A TWO-WAY PATTERN AT THE END OF EACH WORK DAY.

LOCAL NOTES FOR ADVANCE WORK ZONE SIGNS

- 1. USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- 2. DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- 3. SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- 4. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- 5. USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL ANDSQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- 6. WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- 7. DO NOT BACK BRACE SIGN SUPPORTS.



PROJECT NOTES

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| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| B-3635 | TCP-3 |
| | 107-3 |

PHASE 1

- STEP 1 INSTALL ADVANCE WARNING SIGNS, DRUMS, AND BARRICADES AS SHOWN ON SHEET TCP-4 AND 5. (SEE LOCAL NOTES FOR ADV. WORK ZONE SIGNS)
- STEP 2 USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9 AS NEEDED, CONSTRUCT ALL RIGHT SIDE TEMPORARY GUARDRAIL ON EXISTING ALIGNMENT FROM -L- STA. 16+75 +/- TO -L- STA. 17+10 +/- AND FROM -L- STA. 17+41 +/- TO -L- STA. 17+90 +/-. (SEE SHEET TCP-4)
 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9 AS NEEDED, BEGIN CONSTRUCTION OF THE PROPOSED DRAINAGE STRUCTURE AND 30" RCP AND COVER WITH STEEL PLATES TO PROTECT DURING THE CURING PROCESS. ONCE CURED BACKFILL AND PAVE, IF REQUIRED UP TO THE EXISTING EDGE AND ELEVATION OF EXISTING PAVEMENT. (SEE ROADWAY PLANS, TCP-4 AND LOCAL NOTE 2)
- STEP 3 AWAY FROM TRAFFIC, BEGIN STAGE 1 OF THE PROPOSED BRIDGE AS SHOWN ON THE STRUCTURE PLANS AND SHEET TCP-4
 - USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9 AS NEEDED, BEGIN THE FOLLOWING:
 - CONSTRUCT THE PROPOSED RIGHT SIDE ROADWAY SECTIONS UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE MAINTAINING A MINIMUM 5' HORIZONTAL CLEARANCE BETWEEN THE EXISTING EDGE OF TRAVEL LANE AND THE TOE OF TEMPORARY SIDE SLOPES FROM -L- STA. 14+50+/-TO -L- STA. 17+10+/- AND FROM -L- STA. 17+55+/- TO -L- STA. 19+50+/-. (SEE ROADWAY PLANS AND TCP-4)
- STEP 4 WORKING IN A CONTINUOUS MANNER COMPLETE THE FOLLOWING:
 - WEDGE AND OVERLAY UP TO BUT NOT INCLUDING THE FINAL SURFACE LAYER, FROM -L- STA. 14+50 +/- TO -L- STA. 19+50. (SEE GENERAL NOTES F AND G AND LOCAL NOTES 1 AND 2)
 - INSTALL THE FINAL SURFACE COURSE FROM -L- STA. 14+50 +/TO -L- STA. 17+10 +/- AND FROM -L- STA. 17+55 +/- TO
 -L- STA. 19+50 +/-.
 - INSTALL PORTABLE CONCRETE BARRIER AND CRASH CUSHIONS AS SHOWN ON TCP-5 FROM -L- STA. 16+62 +/- TO -L- STA. 17+87 +/-.
 - INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON SHEET TCP-5 AND SHIFT TRAFFIC ONTO THE RIGHT SIDE IN A ONE LANE 2-WAY PATTERN

PHASE 2

- STEP 1 AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:
 - REMOVE ALL TEMPORARY GUARDRAIL
 - REMOVE THE EXISTING BRIDGE
 - CONSTRUCT STAGE 2 OF THE PROPOSED BRIDGE AS SHOWN ON THE STRUCTURE PLANS AND SHEET TCP-5
 - COMPLETE CONSTRUCTION OF PROPOSED DRAINAGE STRUCTURE AND 30" RCP BEGUN IN PHASE I, STEP 2 AND ANY REMAINING PROPOSED DRAINAGE SYSTEM. (SEE ROADWAY PLANS)
 - CONSTRUCT THE PROPOSED LEFT SIDE ROADWAY SECTION UP TO BUT NOT INCLUDING THE FINAL SURFACE LAYER.
- STEP 2 USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9 AS NEEDED, PERFORM THE FOLLOWING:
 - REMOVE ALL PORTABLE CONCRETE BARRIER, AND CRASH CUSHIONS
 - DELINEATE ALIGNMENT WHERE CONCRETE BARRIER IS REMOVED WITH DRUMS UNTIL TRAFFIC IS PUT INTO THE FINAL PATTERN
- STEP 3 WORKING IN A CONTINUOUS MANNER, PERFORM THE FOLLOWING:
 - CONSTRUCT THE FINAL SURFACE LAYER FROM -L- STA. 14+50+/TO -L- STA. 19+50+/-
 - INSTALL FINAL PAVEMENT MARKINGS
 - SHIFT TRAFFIC ONTO THE PROPOSED FINAL ALIGNMENT
 - REMOVE ALL REMAINING WORK ZONE TRAFFIC CONTROL SIGNS AND DEVICES

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PHASING NOTES

SCALE: NONE

DATE: 04/08

DWG. BY: BLL

DESIGN BY: BLL

REVIEWED BY: JDK



REVISIONS

