

PROJ. REFERENCE NO.	SHEET NO.
B-4654	TMP-03

PHASE I

STEP 1) PRIOR TO ANY CONSTRUCTION ACTIVITY, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADS INVOLVED (NC 50/BENSON ROAD, US 70, CIRCLE DRIVE, UMSTEAD LANE, LAKE DRIVE) ACCORDING TO THE ROADWAY STANDARD DRAWINGS.

STEP 2) NOT REQUIRED.

STEP 3) USING RSD 1101.02 (SHEET 3 OF 19) FOR TEMPOARY LANE CLOSURES OF US 70 (-Y1-) CONSTRUCT THE MEDIAN WIDENING UP TO EXISTING EDGE AND ELEVATION ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-04):

- Y1- STA. 20+00 +/- TO STA. 33+00 +/- (WB MEDIAN)
- Y1- STA. 25+80 +/- TO STA. 28+90 +/- (EB MEDIAN)

STEP 4) USING RSD 1101.02 (SHEET 3 OF 19) FOR TEMPOARY LANE CLOSURES OF US 70 (-Y1-) AND USING RSD 1205.01AND 1205.02, PLACE TEMPORARY PAVEMENT MARKING (PAINT), PAVEMENT MARKERS (TEMPORARY RAISED), AND ADVANCED WARNING SIGNS FOR TEMPORARY TRAFFIC PATTERN ON US 70 (-Y1-) ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-04A):

- Y1- STA. 18+50 +/- TO STA. 34+50 +/- (WB LANES)
- Y1- STA. 24+00 +/- TO STA. 30+50 +/- (EB LANES)

AND SHIFT US 70 TRAFFIC INTO TEMPORARY PATTERN.

USING RSD 1101.02 (SHEET 3 OF 19) FOR TEMPOARY LANE CLOSURES OF US 70 (-Y1-) PLACE TEMPORARY BARRIERS (PCB AND ANCHORED PCB) ALONG THE INSIDE AND OUTSIDE SHOULDERS ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-04A):

- Y1- STA. 25+65 +/- TO STA. 31+24 +/- (WB OUTSIDE LANE)
- Y1- STA. 26+45 +/- TO STA. 28+80 +/- (WB INSIDE LANE)

- Y1- STA. 26+16 +/- TO STA. 28+80 +/- (EB OUTSIDE LANE)
- Y1- STA. 26+16 +/- TO STA. 28+80 +/- (EB INSIDE LANE)

STEP 5) WORKING AWAY FROM TRAFFIC, BEHIND PCB, OR USING RSD 1101.02 (SHEET 1 OF 19) WITH FLAGGERS, CONSTRUCT NC 50 (-L-), UP TO EDGE AND ELEVATION OF EXISTING PAVEMENT, DRAINAGE (PERMANENT AND TEMPORARY), AND STAGE 1 OF BRIDGE OVER US 70 (WITH TEMPORARY SHORING) AND RETAINING WALLS ACCORDING TO THE FOLLOWING STATIONS: (SEE STRUCTURE PLANS AND DETAILS ON TMP-05 AND TMP-05A):

- L- STA. 15+21 +/- TO STA. 18+02 +/- (LEFT)
- L- STA. 18+47 +/- TO STA. 20+25 +/- (LEFT)
- L- STA. 20+33 +/- TO STA. 27+08 +/- (LEFT)
- Y1- STA. 26+64 +/- TO STA. 27+36 +/- (MEDIAN)
- Y1- STA. 26+64 +/- TO STA. 27+85 +/- (EBL)
- Y1- STA. 25+90 +/- TO STA. 26+95 +/- (WBL)

AND INSTALL AND COVER TEMPORARY TRAFFIC SIGNAL AT THE NC 50 INTESECTION WITH RAMP C / RAMP D.

STEP 6) INSTALL AND COVER EASTBOUND AND WESTBOUND BRIDGE DETOUR SIGNS ACCORDING TO THE DETAIL ON TMP-06.

USE RSD 1101.02 (SHEET 3 OF 19) FOR TEMPORARY LANE CLOSURE ON US 70 (-Y1-) FOR BRIDGE AND WALL CONSTRUCTION THAT DOES NOT REQUIRE ROAD CLOSURES.

NC 50 GIRDER INSTALLATION OVER EASTBOUND US 70

WORKING ON CONSECUTIVE NIGHTS, INSTALL GIRDERS OVER EASTBOUND US 70 (-Y1-) AS FOLLOWS:

UNCOVER BRIDGE DETOUR SIGNS FOR EASTBOUND US 70 AND USING POLICE, SHIFT TRAFFIC TO THE OFF-SITE DETOUR, AND PLACE BARRICADES TO CLOSE EASTBOUND US 70 AT US 50 INTERCHANGE.

SET ALL NC 50 (-L-) BRIDGE GIRDERS OVER THE EASTBOUND LANES OF US 70 (-Y1-).

AT THE END OF EACH NIGHT, OPEN EASTBOUND LANES OF US 70 TO TRAFFIC, REMOVE BARRICADES, AND COVER EASTBOUND OFF-SITE DETOUR SIGNS.

NC 50 GIRDER INSTALLATION OVER WESTBOUND US 70

WORKING ON CONSECUTIVE NIGHTS, INSTALL GIRDERS OVER WESTBOUND US 70 (-Y1-) AS FOLLOWS:

UNCOVER BRIDGE DETOUR SIGNS FOR WESTBOUND US 70 AND USING POLICE, SHIFT TRAFFIC TO THE OFF-SITE DETOUR, AND PLACE BARRICADES TO CLOSE WESTBOUND US 70 AT NEW RAND ROAD, CARROLL DRIVE AND MONTAGUE STREET.

SET ALL NC 50 (-L-) BRIDGE GIRDERS OVER THE WESTBOUND LANES OF US 70 (-Y1-).

AT THE END OF EACH NIGHT, OPEN WESTBOUND LANES OF US 70, CARROLL DRIVE AND MONTAGUE STREET TO TRAFFIC, REMOVE BARRICADES, AND COVER WESTBOUND OFF-SITE DETOUR SIGNS.

STEP 7) INSTALL CIRCLE DRIVE DETOUR SIGNS AND DEVICES TO CLOSE ROAD TO TRAFFIC AT NC 50 (SEE TMP-07).

INTERMEDIATE CONTRACT TIME

COMPLETE THE FOLLOWING WORK OF PHASE I, STEP 8 FOR -Y2- CIRCLE DRIVE IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME OF 10 CONSECUTIVE DAYS (SEE SPECIAL PROVISIONS).

STEP 8) WORKING IN A CONTINOUS MANNER AND USING RSD 1101.02 (SHEET 1 OF 19) WITH FLAGGERS, CONSTRUCT CIRCLE DRIVE (-Y2-), UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-07):

- Y2- STA. 11+45 +/- TO STA. 12+99 +/-

USING RSD 1205.01AND 1205.02, PLACE PAVEMENT MARKING (PAINT) IN TEMPORARY PATTERN TO TIE TO EXISTING NC 50, REMOVE DETOUR SIGNS AND OPEN CIRCLE DRIVE TO TRAFFIC (SEE TMP-07).

PHASE II

STEP 1) INSTALL OFF-SITE DETOUR SIGNS AND BARRICADES AT UMSTEAD LANE AND HILLTOP AVENUE FOR LOOP B AND RAMP B CLOSURE (SEE TMP-08 AND TMP-09).

STEP 2) USING RSD 1101.02 (SHEET 3 OF 19) AS NEEDED FOR TEMPORARY LANE CLOSURE OF OUTSIDE LANE OF WESTBOUND US 70 AND RSD 1101.02 (SHEET 1 OF 19) WITH FLAGGERS FOR TEMPORARY/PARTIAL CLOSURE OF RAMP B FOR DRAINAGE CROSSING, INSTALL DRAINAGE PIPE BETWEEN THE FOLLOWING STATIONS: (SEE TMP-08):

- Y1- STA. 18+30 +/- TO STA. 23+20 +/- LEFT

INTERMEDIATE CONTRACT TIME

COMPLETE THE FOLLOWING WORK OF PHASE II, STEPS 3 AND 4 FOR LOOP B AND RAMP B IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME OF 60 CONSECUTIVE DAYS (SEE SPECIAL PROVISIONS).

STEP 3) USING RSD 1101.02 (SHEET 3 OF 19) FOR TEMPORARY LANE CLOSURE, RESET AND PLACE TEMPORARY BARRIERS (PCB) ALONG THE OUTSIDE WESTBOUND US 70 LANE TO CLOSE EXIT LOOP (-LPB-) ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-08 FOR DETAILS):

- Y1- STA. 21+72 +/- TO STA. 25+64 +/- (INSTALL PCB)
- Y1- STA. 25+64 +/- TO STA. 28+26 +/- (RESET PCB)

USING RSD 1205.01 AND 1205.02, PLACE TEMPORARY PAVEMENT MARKING (PAINT) ON THE US 70 WESTBOUND LANE ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-08 FOR DETAILS):

- Y1- STA. 24+90 +/- TO STA. 25+64 +/- (WESTBOUND)

STEP 4) USING RSD 1101.02 (SHEET 3 OF 19) AND FLAGGERS FOR TEMPORARY INSIDE LANE CLOSURE OF WESTBOUND US 70, CONSTRUCT Y1 UP TO, BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, AND LOOP B (-LPB-) AND RAMP B (-RPB-) ACCORDING TO THE FOLLOWING STATIONS (SEE DETAIL ON TMP-08):

- Y1- STA. 22+04 +/- TO STA. 25+90 +/- (WESTBOUND)
- LPB- STA. 10+00 +/- TO STA. 16+11 +/-
- RPB- STA. 10+30 +/- TO STA. 15+22 +/-

USING RSD 1205.01, 1205.02, AND 1205.03, PLACE TEMPORARY PAVEMENT MARKING (PAINT) ON US 70 (-Y1-), LOOP B (-LPB-), AND RAMP B (-RPB-) ACCORDING TO THE FOLLOWING STATIONS (SEE DETAIL ON TMP-12):

- Y1- STA. 23+93 +/- TO STA. 25+91 +/- (WESTBOUND)
- LPB- STA. 10+00 +/- TO STA. 16+11 +/-
- RPB- STA. 10+30 +/- TO STA. 15+22 +/-

REMOVE BARRICADES AND USING RSD 1101.02 (SHEET 3 OF 19) FOR TEMPORARY LANE CLOSURE, REMOVE TEMPORARY BARRIERS (PCB) ALONG THE OUTSIDE WESTBOUND US 70 LANE ACCORDING TO THE FOLLOWING STATIONS (SEE DETAILS ON TMP-12):

- Y1- STA. 21+72 +/- TO STA. 26+08 +/- (WESTBOUND)

AND OPEN LOOP B AND RAMP B TO TRAFFIC.

STEP 5) CONSTRUCT CUL DE SAC ON HILLTOP AVENUE (-Y3-) ACCORDING TO THE FOLLOWING STATIONS (SEE DETAIL ON TMP-08):

- Y3- STA. 10+50 +/- TO STA. 11+50 +/-

STEP 6) INSTALL THE RAMP C OFF-SITE DETOUR SIGNS AS SHOWN IN THE DETAIL ON TMP-11.

INTERMEDIATE CONTRACT TIME

COMPLETE THE FOLLOWING WORK OF PHASE II, STEP 6 FOR RAMP C IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME OF 21 CONSECUTIVE DAYS (SEE SPECIAL PROVISIONS). SCHEDULE COMPLETION OF THIS WORK WITH THE COMPLETION OF PHASE I CONSTRUCTION OF -L-.

PLACE BARRICADES, DRUMS AND DEVICES TO CLOSE RAMP C (EASTBOUND EXIT RAMP TO NC 50) AND CONSTRUCT NC 50 (-L-) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AND RAMP C ACCORDING TO THE FOLLOWING STATIONS: (SEE DETAILS ON TMP-10):

- L- STA. 19+44 +/- TO STA. 20+46 +/- (LEFT)
- RPC- STA. 11+60 +/- TO STA. 14+26 +/-

USING RSD 1101.02 (SHEETS 1 AND 2 OF 19) AND FLAGGERS FOR TEMPORARY LANE CLOSURES AND RSD 1205.01 1205.02, AND 1250.01 PLACE PAVEMENT MARKING (PAINT) AND PAVEMENT MARKERS (TEMPORARY) AND DEVICES FOR NEW TRAFFIC PATTERN ON NC 50 (-L-) ACCORDING TO THE FOLLOWING STATIONS (SEE DETAILS ON TMP-12 THRU TMP-13):

- L- STA. 11+50 +/- TO STA. 29+40 +/-
- RPC- STA. 11+60 +/- TO STA. 14+26 +/-

UNCOVER TEMPORARY SIGNAL AT RAMP C/RAMP D INTERSECTION AND SHIFT NC 50 TRAFFIC INTO TEMPORARY PATTERN. OPEN RAMP C TO TRAFFIC AND REMOVE OFF-SITE DETOUR.

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 patrick.mcpherson

APPROVED: _____ DATE: 1/11/2024		  <small>NC FIRM LICENSE No: F-3042 5438 Wade Park Blvd., Ste 200 Raleigh, NC 27607 919.854.6200</small>	<h1 style="margin: 0;">PROJECT PHASING</h1>
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