

PROJ. REFERENCE NO.	SHEET NO.
U-5748	TMP-2B

NOTES: THESE PLANS ARE FOR THE MAINTENANCE OF TRAFFIC DURING PROJECT CONSTRUCTION AND ARE NOT INCLUSIVE OF ALL DISCIPLINES. SEE THE UTILITY PHASING PLANS FOR THE UTILITY CONSTRUCTION.

MAINTAIN INGRESS AND EGRESS TO ALL PROPERTIES WITHIN THE PROJECT AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION.

PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, INSTALL WORK ZONE ADVANCE WARNING SIGNS AS SHOWN IN ROADWAY STANDARD DRAWING (RSD) 1101.01. SHEETS 2 AND 3 OF 3.

THE SYNCHRONIZED STREET SECTION OF US 401 SOUTH OF THE BRIDGE SHALL BE COMPLETED PRIOR TO MAKING ANY TRAFFIC PATTERN ALTERATIONS ON THE SECTION OF THE PROJECT NORTH OF THE BRIDGE.

**PHASE I**

STEP 1: PLACE CHANGEABLE MESSAGE SIGNS ALONG LIGON MILL ROAD AS SHOWN IN PLANS AND AS DIRECTED BY THE ENGINEER INDICATING THE UPCOMING CLOSURE AND RELOCATION OF LIGON MILL RD AT US 401. ACTUAL MESSAGES WILL BE AS DIRECTED BY THE ENGINEER AND SHALL BE DISPLAYED A MINIMUM OF 2 WEEKS PRIOR TO THE CLOSURE AND RELOCATION OF LIGON MILL ROAD.

STEP 2: USING RSD 1101.02, SHEET 3 OF 14 AS NEEDED, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON TMP-05 AND TMP-06 AND PLACE TEMP. CONC. BARRIER (ATTACHED TO STRUCTURE) AND CRASH CUSHIONS AT THE LIMITS SHOWN IN THE PLANS. SHIFT TRAFFIC TO THE NARROWED PATTERN AND OBLITERATE ANY CONFLICTING PAVEMENT MARKINGS. BEGIN PROPOSED WIDENING OF THE BRIDGES ON THE EXTERIOR OF BOTH STRUCTURES FROM US 401 STA. 23+38 TO 26+36 AS SHOWN. INSTALL TEMP. SHORING AFTER EXISTING SIDEWALK AND DECK REMOVED.

STEP 2A: USING RSD 1101.03, SHEET 9 OF 14 FOR ROLLING ROAD BLOCKS, REPLACE BEARINGS AT EXISTING BRIDGES ON US 401 OVER THE NEUSE RIVER. SEE STRUCTURE PLANS FOR ADDITIONAL DETAILS.

STEP 3: USING RSD 1101.02, SHEET 3 OF 14 AS NEEDED, PLACE DRUMS AND TEMP. CONC. BARRIERS ALONG US 401 AND AT THE LIGON MILL/MITCHELL MILL RD. INTERSECTION TO PROTECT THE CULVERT CROSSING AREAS IN PREPARATION FOR THE INSTALLATION OF THE PROPOSED CULVERTS AS SHOWN ON TMP-06.

CONSTRUCT PROPOSED BORE & JACK PITS AS SHOWN IN THE DETAILS AND AS DIRECTED BY THE ENGINEER. MAINTAIN DRAINAGE FLOW THROUGH THE EXISTING CULVERTS.

STEP 4: INSTALL PROPOSED 78" WSP CULVERTS BY BORE AND JACK. UPON COMPLETION OF THE CULVERT INSTALLATIONS, DIVERT DRAINAGE FLOW THROUGH THE NEWLY INSTALLED PROPOSED CULVERTS.

STEP 5: USING RSD 1101.02, SHEET 1 AND 3 OF 14 AS NEEDED, CONSTRUCT THE FOLLOWING ROADWAYS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:

PROPOSED -Y2-	FROM STA. 14+62	TO STA. 33+78
PROPOSED -Y3-	FROM STA. 13+70	TO STA. 15+11
PROPOSED -L-	FROM STA. 45+00	TO STA. 50+60 MED
CUL-DE-SAC AT VENTURA CIRCLE		

**PHASE I-A**

STEP 1: MAINTAIN EXISTING TRAFFIC PATTERNS OTHER THAN LANE CLOSURES. USING RSD 1101.02, SHEET 3 OF 14 AS NEEDED, CONSTRUCT THE PROPOSED BULB-OUT WIDENINGS ALONG US 401 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-14 AND TMP-16, AT THE FOLLOWING LOCATIONS:

US 401	STA. 23+56,	LEFT
US 401	STA. 26+02,	RIGHT
US 401	STA. 47+68,	LEFT

THIS INCLUDES CONSTRUCTION OF THE TURNAROUND ON HARNETT DRIVE.

**TRAFFIC PHASING**

**PHASE I-B**

STEP 1: CONTINUE TO MAINTAIN EXISTING TRAFFIC PATTERNS OTHER THAN LANE CLOSURES. USING RSD 1101.02, SHEET 3 OF 14 AS NEEDED, CONSTRUCT THE PROPOSED MEDIAN PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND THE PROPOSED CONC. MONOLITHIC ISLANDS OF THE LEFT-OVER MEDIAN U-TURNS ALONG US 401 AT THE FOLLOWING LOCATIONS:

FROM STA. 19+50 TO STA. 25+20	INCLUDES SHORT NB LEFT ISLAND
FROM STA. 24+60 TO STA. 26+55	INCLUDES SHARED NB/SB U-TURN ISLAND
FROM STA. 26+88 TO STA. 40+45	INCLUDES EXTENDED SB LEFT ISLAND
FROM STA. 44+90 TO STA. 50+77	INCLUDES SHORT NB LEFT, NB U-TURN ISLANDS (2)
FROM STA. 51+49 TO STA. 55+50	INCLUDES SHORT NB ISLAND
FROM STA. 54+58 TO STA. 56+92	INCLUDES SHARED NB/SB U-TURN ISLAND
FROM STA. 56+00 TO STA. 61+60	INCLUDES SHORT SB ISLAND

STEP 2: USING RSD 1101.02, SHEET 3 OF 14 AS NEEDED, INSTALL AND COVER PROPOSED SIGNALS AT -L- STA. 27+00+/- AND -L- STA. 49+50+/-.

STEP 3: WORKING IN A CONTINUOUS MANNER AND USING LAW ENFORCEMENT AS NEEDED, ACTIVATE THE NEW AND TEMPORARY SIGNALS, PLACE APPROPRIATE TRAFFIC CONTROL DEVICES IN THE US 401/PERRY CREEK RD. INTERSECTION AND SHIFT TRAFFIC INTO THE NEW SUPERSTREET TRAFFIC PATTERN. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) IN THE FINAL TRAFFIC PATTERNS AND OBLITERATE ANY CONFLICTING PAVEMENT MARKINGS. THIS INCLUDES THE NEW TRAFFIC PATTERN PAVEMENT MARKINGS ON PERRY CREEK ROAD. SEE SIGN-06 FOR SIGNING NEEDS PRIOR TO INCORPORATING TRAFFIC PATTERN CHANGE.

STEP 4: CONSTRUCT THE PROPOSED CONC. MONOLITHIC ISLANDS IN THE US 401/PERRY CREEK RD. INTERSECTION AND INSTALL THE PROPOSED FINAL SIGNAL IN THE MEDIAN ISLAND AND ACTIVATE. REMOVE ANY TEMPORARY OR EXISTING SIGNALS NO LONGER NEEDED.

**PHASE I-C (NOT PICTURED)**

STEP 1: USING RSD 1101.02, SHEET 3 OF 14 AND LAW ENFORCEMENT AS NEEDED, PLACE THE FINAL LAYER OF SURFACE COURSE ON THE ENTIRE PROJECT AREA SOUTH OF THE EXISTING BRIDGE OVER THE NEUSE RIVER BEING WIDENED. THIS INCLUDES THE PLACEMENT OF ALL PROPOSED FINAL PAVEMENT MARKINGS AND MARKERS.

STEP 2: COMPLETE ALL WORK NECESSARY TO FINISH PHASE I OF THE TRAFFIC CONTROL PLAN BEFORE PROCEEDING TO PHASE II. ALL TRAFFIC SOUTH OF THE BRIDGE MUST BE IN FINAL TRAFFIC PATTERNS BEFORE MAKING ANY SIGNIFICANT TRAFFIC PATTERN ALTERATIONS IN THE REMAINDER OF THIS PROJECT.

**PHASE II**

STEP 1: USING RSD 1101.02, SHEET 1 AND 3 OF 14 AS NEEDED, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON NEWLY CONSTRUCTED -Y2- AND -Y3- AS SHOWN ON TMP-28, TMP-32, AND TMP-33. TIE TEMPORARY PAVEMENT MARKING LINES FOR -Y2- AND -Y3- TO EXISTING PAVEMENT MARKING LINES AS SHOWN ON TMP-32. SHIFT TRAFFIC ON TO -Y2- AND -Y3- AND OBLITERATE ANY CONFLICTING PAVEMENT MARKINGS. INSTALL TEMP. SIGNAL AT THE US 401/-Y2- INTERSECTION AND ACTIVATE SIGNAL.

STEP 2: USING RSD 1101.02, SHEET 3 OF 14 AS NEEDED, CONSTRUCT THE PROPOSED WIDENING OF SOUTHBOUND US 401 FROM -L- STA. 15+50 TO -L- STA. 85+17.

STEP 3: USING RSD 1101.02, SHEET 1 OF 14, CONSTRUCT PROPOSED -Y4- FROM STA. 10+50 TO STA. 17+70. MAINTAIN ACCESS FROM LIGON MILL RD. TO OLD NEUSE TRAIL AT ALL TIMES.

STEP 4: USING RSD 1101.02, SHEET 3 OF 14, CONSTRUCT THE TEMPORARY MEDIAN PAVEMENT AND PROPOSED PAVEMENT FROM -L- STA. 71+06 TO STA. 79+00 TO BE USED FOR THE NORTHBOUND DETOUR IN PHASE III AND INSIDE WIDENING OF US 401.

**PHASE II, CONT.**

STEP 5: COMPLETE CONSTRUCTION OF THE PROPOSED DRAINAGE ON THE EAST SIDE OF US 401 INCLUDING ANY REMAINING CULVERTS AND DRAINAGE DITCHES. MAINTAIN DRAINAGE FLOW THROUGH THE NEWLY CONSTRUCTED CULVERTS BENEATH US 401 (SEE TMP-27).

**PHASE III**

STEP 1: UPON COMPLETION OF THE SOUTHBOUND WIDENING OF US 401 IN PHASE II, STEP 3, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON TMP-35 THROUGH TMP-39 AND ADJUST THE SIGNALS AT THE MITCHELL MILL RD. AND -Y2- INTERSECTIONS WITH US 401. SHIFT US 401 TRAFFIC TO THE WEST AS SHOWN.

STEP 2: USING RSD 1101.02, SHEET 1 AND 3 OF 14 AS NEEDED, CONSTRUCT THE PROPOSED NORTHBOUND WIDENING OF US 401 AS SHOWN FROM -L- STA. 18+10 TO -L- STA. 85+17 AND FROM -Y1- STA. 10+00 TO -Y1- STA. 14+25. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y1- MITCHELL MILL RD. AS SHOWN ON TMP-36. OBLITERATE ANY CONFLICTING PAVEMENT MARKINGS.

**PHASE IV**

STEP 1: UPON COMPLETION OF THE NORTHBOUND WIDENING OF US 401 IN PHASE III, STEP 2, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON TMP-44 THROUGH TMP-48 AND ADJUST THE SIGNALS AT THE MITCHELL MILL RD. AND -Y2- INTERSECTIONS WITH US 401. SHIFT US 401 NORTHBOUND TRAFFIC TO THE EAST AS SHOWN. CONTINUE TO MAINTAIN EXISTING TRAFFIC PATTERNS (OTHER THAN LANE CLOSURES) FOR US 401 SOUTHBOUND TRAFFIC.

STEP 2: USING RSD 1101.02, SHEET 3 OF 14 AS NEEDED, CONSTRUCT THE PROPOSED MEDIAN PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND THE PROPOSED CONC. MONOLITHIC ISLANDS OF THE LEFT-OVER MEDIAN U-TURNS ALONG US 401 AT THE FOLLOWING LOCATIONS:

FROM STA. 26+47 TO STA. 33+39	
FROM STA. 34+11 TO STA. 40+31	INCLUDES PEDESTRIAN REFUGE ISLAND AND SB LEFT ISLAND
FROM STA. 39+54 TO STA. 49+55	INCLUDES SHARED NB/SB LEFT ISLAND
FROM STA. 50+47 TO STA. 66+85	INCLUDES SHORT NB ISLAND
FROM STA. 65+95 TO STA. 68+05	INCLUDES SHARED NB/SB U-TURN ISLAND
FROM STA. 67+15 TO STA. 85+12	INCLUDES SHORT SB ISLAND

STEP 3: USING RSD 1101.02, SHEET 3 OF 14 AS NEEDED, INSTALL ALL OF THE PROPOSED SIGNALS. KEEP ALL PROPOSED SIGNALS COVERED AND INACTIVE UNTIL TRAFFIC IS SHIFTED INTO THE NEW TRAFFIC PATTERN.

STEP 4: WORKING IN A CONTINUOUS MANNER AND USING LAW ENFORCEMENT AS NEEDED, ACTIVATE THE NEW SIGNALS AND SHIFT TRAFFIC INTO THE NEW TRAFFIC PATTERN. PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) IN THE FINAL TRAFFIC PATTERNS AND OBLITERATE ANY CONFLICTING PAVEMENT MARKINGS.

STEP 5: REMOVE ANY TEMPORARY OR EXISTING SIGNALS NO LONGER NEEDED.

**PHASE V (NOT PICTURED)**

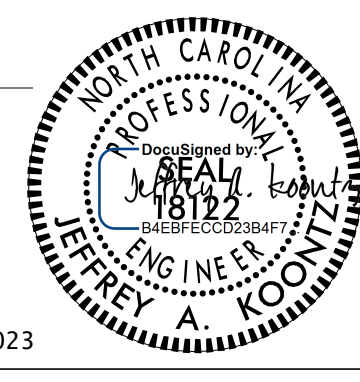
STEP 1: USING RSD 1101.02, SHEET 3 OF 14 AND LAW ENFORCEMENT AS NEEDED, PLACE THE FINAL LAYER OF SURFACE COURSE ON THE ENTIRE PROJECT AREA NORTH OF THE EXISTING BRIDGE OVER THE NEUSE RIVER BEING WIDENED.


USING RSD 1101.02, SHEET 3 AND 8 OF 14 AS NEEDED, AT THE WIDENED BRIDGES OVER THE NEUSE RIVER, MILL CONCRETE BRIDGE DECK AND INSTALL PPC OVERLAY WITHIN ROADWAY AREA OF BRIDGE DECK. AFTER PPC OVERLAY IS INSTALLED, INSTALL JOINT SEALS.

PLACE ALL PROPOSED FINAL PAVEMENT MARKINGS AND MARKERS.

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**PHASING NOTES**