

PHASING

PROJ. REFERENCE NO. I-5710	SHEET NO. TMP-3B
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STEP 4 - CONTINUED:

I-540 AT FALLS OF NEUSE ROAD WB ON-RAMP -RB4-

USING RSD 1101.01, INSTALL ADVANCE WORK ZONE WARNING SIGNS ON I-540 WESTBOUND LANES, FALLS OF NEUSE ROAD, ON THE EXIT RAMP FROM I-540 TO FALLS OF NEUSE ROAD, ON FALLS VALLEY DRIVE AND ON THORPSHIRE DRIVE.

STEP 5: USING THE DETAILS ON TMP-25 AND TMP-26, TEMPORARILY CLOSE THE LEFT LANE OF -RB4- FALLS OF NEUSE ROAD WB ON-RAMP ALONG WITH THE CORRESPONDING LANE OF THE UPSTREAM DUAL LEFT TURN FROM FALLS OF NEUSE ROAD NB, THEN PLACE FILL MATERIAL, PERFORM GRADING AND WIDEN THE EXISTING GRADED SHOULDER UP TO THE EDGE AND ELEVATION OF THE EXISTING PAVED SHOULDER ALONG THE SOUTH SIDE OF RAMP -RB4-. PROVIDE FLAGGERS AND FLAGGER AHEAD SIGNS AS DIRECTED BY THE ENGINEER TO HELP CONSTRUCTION VEHICLES TO ENTER RAMP LANE FROM CLOSED LANE AND WORK AREA.

USING THE DETAILS ON TMP-27 AND TMP-28, TEMPORARILY CLOSE THE RIGHT LANE OF -RB4- FALLS OF NEUSE ROAD WB ON-RAMP ALONG WITH THE CORRESPONDING LANE OF THE UPSTREAM DUAL LEFT TURN FROM FALLS OF NEUSE ROAD NB, THEN CONSTRUCT TEMPORARY PAVEMENT BETWEEN EXISTING PAVED SHOULDER AND EXISTING GUARDRAIL ALONG NORTH SIDE OF RAMP -RB4- FROM STA 14+00 TO STA 15+00 TO FACILITATE P.C.B. INSTALLATION IN STEP 6.

INSTALL AND COVER WARNING SIGNS AND DETOUR SIGNS IN PREPARATION FOR UPCOMING -RB4- FALLS OF NEUSE ROAD WB ON-RAMP CLOSURES AND DETOURS AS SHOWN ON TMP-29 THRU TMP-31. [SEE LOCAL NOTES LN-1 AND LN-3]

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN PHASE I, STEPS 6 THROUGH 9 WITHIN 90 CALENDAR DAYS. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 6: USE THE DETAILS ON TMP-29 THRU TMP-31 TO CLOSE THE -RB4- FALLS OF NEUSE ROAD WB ON-RAMP AND DETOUR RAMP TRAFFIC AS SHOWN ON TMP-31 FOR A SINGLE OVERNIGHT PERIOD AND PERFORM THE FOLLOWING WORK TO INSTALL P.C.B. ON RAMP -RB4- TRAFFIC AS SHOWN ON TMP-32 [SEE LOCAL NOTES LN-1 AND LN-3]:

- INSTALL PORTABLE CONCRETE BARRIER (P.C.B.) ALONG THE NORTH SIDE OF RAMP -RB4- AND TIE APPROACH END OF P.C.B. TO EXISTING GUARDRAIL AS SHOWN ON TMP-32 [SEE SECTION A-A, STEP A].
- PLACE DRUMS TO CLOSE EXISTING SHOULDER ON NORTH SIDE OF RAMP -RB4- AND TO DELINEATE APPROACH END OF P.C.B. AS SHOWN ON TMP-32.
- REMOVE BARRICADES REOPEN RAMP AND DISCONTINUE RAMP DETOUR BY END OF OVERNIGHT WORK PERIOD.

STEP 7: WORKING AWAY FROM TRAFFIC AND BEHIND P.C.B., INSTALL TEMPORARY SHORING ALONG NORTH SIDE OF RAMP -RB4- FROM STA 8+50 -RB4- TO STA 14+00 -RB4- AS SHOWN ON SEE TMP-32. [SEE SECTION A-A, STEP A ON TMP-32].

ONCE TEMPORARY SHORING HAS BEEN INSTALLED, CONSTRUCT PROPOSED M.S.E. RETAINING WALL ON NORTH SIDE OF RAMP -RB4- FROM STA 7+00 -RB4- TO STA 14+00 -RB4-. [SEE TMP-32 AND SECTION A-A, STEP A]

UPON COMPLETION OF RETAINING WALL, REMOVE TEMPORARY SHORING AND CONSTRUCT PROPOSED PAVEMENT WIDENING UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE, CONSTRUCT GUARDRAIL ON NORTH SIDE OF RAMP -RB4- FROM STA 6+05 -RB4- TO STA 14+00 -RB4- [SEE TMP-32 AND SECTION A-A, STEP B AND SEE ROADWAY PLANS].

CONSTRUCT PROPOSED ITS UNDERGROUND CONDUITS, JUNCTION BOXES, SIGNAL PEDESTAL FOUNDATION AND CONTROLLER CABINET FOUNDATION ON THE NORTH SIDE OF RAMP AS MUCH AS POSSIBLE BEHIND P.C.B. [SEE ITS PLANS]

STEP 8: USE THE DETAILS ON TMP-29 THRU TMP-31 TO CLOSE THE -RB4- FALLS OF NEUSE ROAD WB ON-RAMP AND DETOUR RAMP TRAFFIC AS SHOWN ON TMP-31 FOR A SINGLE OVERNIGHT PERIOD AND PERFORM THE FOLLOWING WORK [SEE LOCAL NOTES LN-1 AND LN-3]:

STEP 8 - CONTINUED:

- REMOVE P.C.B. PREVIOUSLY INSTALLED ALONG THE NORTH SIDE OF RAMP -RB4- AND REPLACE P.C.B. WITH DRUMS SPACED 50 FT APART.
- COMPLETE GUARDRAIL TO WHICH P.C.B. WAS TEMPORARILY TIED.
- REMOVE BARRICADES REOPEN RAMP AND DISCONTINUE RAMP DETOUR BY END OF OVERNIGHT WORK PERIOD.

STEP 9: USE THE DETAILS ON TMP-29 THRU TMP-31 TO CLOSE THE -RB4- FALLS OF NEUSE ROAD WB ON-RAMP AND DETOUR RAMP TRAFFIC AS SHOWN ON TMP-31 FOR A SINGLE OVERNIGHT PERIOD AND PERFORM THE FOLLOWING WORK TO SHIFT RAMP -RB4- TRAFFIC INTO FINAL PATTERN USING TEMPORARY MARKINGS [SEE LOCAL NOTES LN-1 AND LN-3]:

- WEDGE EXISTING PAVEMENT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE.
- REVISE PAVEMENT MARKINGS ON -RB4- TO PROPOSED FINAL PATTERN USING TEMPORARY MARKINGS [SEE PAVEMENT MARKING PLANS].
- REMOVE BARRICADES REOPEN RAMP AND DISCONTINUE RAMP DETOUR BY END OF OVERNIGHT WORK PERIOD.

STEP 10: WORKING BEHIND SHOULDER CLOSURES ON WESTBOUND I-540 [SEE RSD NO. 1101.04], DIRECTIONAL DRILL CONDUIT BENEATH I-540 WEST AND INSTALL JUNCTIONS BOXES AT EACH END OF BORE [SEE ITS PLANS].

INSTALL LOOP DETECTORS IN THE WESTBOUND LANES OF I-540 UPSTREAM OF ON-RAMP GORE AS FOLLOWS [SEE ITS PLANS]:

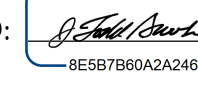

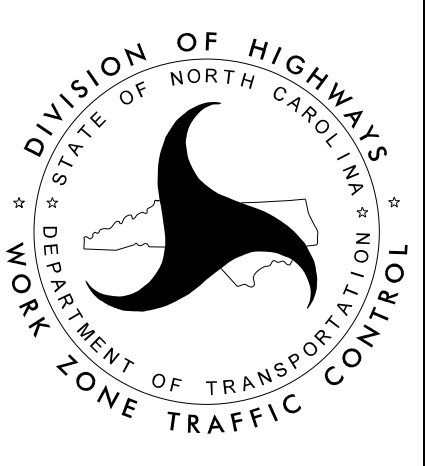
- USE RSD 1101.02, SHEET 8, TO CLOSE THE RIGHT AND CENTER LANES OF I-540 WESTBOUND AND INSTALL LOOPS IN THE CLOSED RIGHT AND CENTER LANES.
- USE RSD 1101.02, SHEET 4, TO CLOSE THE LEFT LANE OF I-540 WESTBOUND AND INSTALL THE LOOP WITHIN THE CLOSED LEFT LANE.

WORKING BEHIND SHOULDER CLOSURES ON WESTBOUND ON-RAMP -RB4- [SEE RSD NO. 1101.04], CONSTRUCT THE FOLLOWING RAMP METER SIGNAL EQUIPMENT ALONG RAMP -RB4- [SEE ITS PLANS]:

- DIRECTIONAL DRILL CONDUITS BENEATH -RB4- AND THE I-540 WB EXIT LOOP AND INSTALL JUNCTION BOXES AT EACH END OF BORES.
- INSTALL UNDERGROUND CONDUIT AND JUNCTION BOXES ALONG SOUTH SIDE OF RAMP -RB4- AND THE I-540 EXIT LOOP.
- INSTALL CONTROLLER CABINET AND PEDESTALS ON FOUNDATIONS ONCE FOUNDATIONS HAVE CURED.

USING THE DETAILS ON TMP-25 THROUGH TMP-28, ALTERNATELY CLOSE ONE LANE ON -RB4- FALLS OF NEUSE ROAD WB ON-RAMP ALONG WITH THE CORRESPONDING LANE OF THE UPSTREAM DUAL LEFT TURN FROM FALLS OF NEUSE ROAD NB, THEN INSTALL PROPOSED LOOP DETECTORS IN CLOSED LANE. [SEE LOCAL NOTE LN-1]

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