

PROJ. REFERENCE NO.	SHEET NO.
BR-0043	TMP - 3

PHASE I

STEP 1) PRIOR TO ANY CONSTRUCTION ACTIVITY, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADS INVOLVED: US 158 / NC 14 AND US 29 ACCORDING TO THE ROADWAY STANDARD DRAWING (RSD) 1101.01 AND THE WORK ZONE VARIABLE SPEED LIMIT REDUCTION SIGNS ON US 29 ACCORDING TO THE DETAIL ON TMP-2E.

STEP 2) USE RSD 1101.02 (SHT 3 OF 14) FOR TEMPORARY LANE CLOSURES ON US 158/NC 14 AND REMOVE EXISTING MONOLITHIC CONCRETE ISLANDS AND REPAIR PAVEMENT UP TO EXISTING EDGE AND ELEVATION ACCORDING TO THE LOCATIONS SHOWN ON ROADWAY PLAN SHEETS 2B-3 AND 2B-4.

DELINEATE ISLANDS WITH TEMPORARY PAVEMENT MARKING (PAINT) AND DRUMS AND MAINTAIN TRAFFIC IN ORIGINAL PATTERN.

STEP 3) USE RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS FOR TEMPORARY LANE CLOSURES AND ALTERNATING TRAFFIC TO MAINTAIN AT LEAST ONE LANE THROUGH THE WORK ZONE, CONSTRUCT THE PROPOSED PIPE CULVERT AND INLET AT STA 30+25. AT THE END OF EACH NIGHT, COVER OPEN TRENCH WITH TRAFFIC BEARING PLATES AS NEEDED TO MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION. CONSTRUCT STR 418 BELOW FINAL GRADE, CAP AND PAVE OVER UNTIL PHASE II. (SEE INSET ON TMP-5)

STEP 4) USE RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS FOR TEMPORARY LANE CLOSURES AS NEEDED TO INSTALL AND COVER TEMPORARY SIGNAL AT THE -RPC-/RPD- INTERSECTION OF -L- (US 158/NC 14). MAINTAIN EXISTING SIGNAL.

USE RSD 1101.02 (SHEET 3 OF 14) FOR TEMPORARY LANE CLOSURES AND REMOVE EXISTING MONOLITHIC ISLAND ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-5)

-L- STA. 22+67 +/- TO STA. 24+69 +/-

AND PLACE DRUMS TO DEFINE ISLAND UNTIL PCB IS PLACED.

STEP 5) PLACE DRUMS WITH SEQUENTIAL FLASHING LIGHTS TO CLOSE THE INSIDE EASTBOUND LANE OF US 158/NC 14 IN ADVANCE OF WORK ZONE. (SEE TMP-4)

USE RSD 1101.02 (SHEET 1 AND 3 OF 14) AND FLAGGERS AS NEEDED FOR TEMPORARY LANE CLOSURES AND INSTALL TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (RAISED) AND PLACE DRUMS IN TEMPORARY PATTERN ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-4 THRU TMP-6)

START OF MERGE TAPER (TMP-4) TO -L- STA. 39+07 +/-

UNCOVER AND ACTIVATE TEMPORARY SIGNAL AND SHIFT TRAFFIC INTO NEW 2-LANE, 2-WAY -LDET1- PATTERN ACROSS THE SOUTH SIDE OF THE BRIDGE. (SEE TMP-4 THRU TMP-6)

STEP 6) USE RSD 1101.02 (SHT 1 OF 14) AND FLAGGERS FOR TEMPORARY LANE CLOSURES ON US 158 AND PLACE PCB ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-5):

-L- STA. 22+83 TO STA. 28+33

STEP 7) WORK BEHIND BARRIER, AWAY FROM TRAFFIC OR WITH RSD 1101.02 (SHT 1 OF 14) AND FLAGGERS FOR ALTERNATING LANE CLOSURES, INSTALL TEMPORARY SHORING AND WALLS AND BEGIN CONSTRUCTION OF -L- US 158 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-5 THRU TMP-6)

-L- STA. 20+50 +/- TO STA. 24+97 +/- (BRIDGE) LT
 -L- STA. 26+64 (BRIDGE) +/- TO STA. 29+90 +/- LT
 -L- STA. 33+00 +/- TO STA. 39+07 +/- LT

USE DETAIL ON TMP-2D TO CLOSE THE US 29 RAMP AND DETOUR RAMP TRAFFIC TO THE ADJACENT INTERCHANGE AND CONSTRUCT RAMP A AND RAMP D UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-5)

-RPA- STA. 16+65 +/- TO STA. 18+04 +/-
 -RPD- STA. 18+75 +/- TO STA. 22+18 +/-

COVER DETOUR SIGNS AND OPEN RAMPS TO TRAFFIC AT THE END OF EACH NIGHT.

STEP 8) USE RSD 1101.02 (SHEET 4 OF 14) FOR TEMPORARY LANE CLOSURES ON US 29 FOR THE FOLLOWING:

MILL AND OVERLAY EXISTING RUMBLE STRIPS AND PLACE TEMPORARY INSIDE SHOULDER WIDENING PAVEMENT ON -Y- (US 29) UP TO EXISTING EDGE AND ELEVATION ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-7):

-L- STA. 19+00 +/- TO STA. 23+00 +/- MEDIAN LT
 -L- STA. 20+00 +/- TO STA. 23+00 +/- MEDIAN RT
 -L- STA. 37+00 +/- TO STA. 40+50 +/- MEDIAN LT
 -L- STA. 37+00 +/- TO STA. 40+00 +/- MEDIAN RT

USE TRENCHLESS INSTALLATION WORKING AWAY FROM TRAFFIC TO INSTALL PROPOSED DRAINAGE UNDER US 29 AND RAMP D (SEE TMP-7)

COVER INSIDE EDGELINE WITH 12" BLACK PAVEMENT MARKING LINES (SEE LOCAL NOTE) AND PLACE TEMPORARY PAVEMENT MARKING (PAINT) ACCORDING TO THE FOLLOWING STATIONS:

-Y- STA. 27+00 +/- TO STA. 34+00 +/- SBL
 -Y- STA. 26+00 +/- TO STA. 33+50 +/- NBL

AND SHIFT INSIDE LANES OF US 29 TRAFFIC INTO NEW PATTERN.

STEP 9) USE RSD 1101.02 (SHT 4 OF 14) FOR TEMPORARY LANE CLOSURES AND INSTALL PCB ON THE INSIDE AND OUTSIDE SHOULDERS OF US 29 (-Y-) SBL & NBL ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-7)

-Y- STA. 28+00 +/- TO STA. 32+00 +/- SBL LT & RT
 -Y- STA. 28+00 +/- TO STA. 32+00 +/- NBL LT & RT

US 158 BRIDGE & RETAINING WALLS – STAGE I

STEP 10) WORK BEHIND BARRIER OR AWAY FROM TRAFFIC AND DEMOLISH THE WESTBOUND PORTION OF THE EXISTING STRUCTURE ACCORDING TO THE FOLLOWING:

GIRDER REMOVAL AND INSTALLATION OVER US 29

STEP 10A) WORK OVER CONSECUTIVE NIGHTS DURING THE ALLOWABLE CLOSURE HOURS, REMOVE EXISTING GIRDERS OF US 158/NC 14 BRIDGE (STAGE 1) OVER NORTHBOUND US 29 AS FOLLOWS: USE RSD 1101.03 (SHEET 7 OF 9) FOR TEMPORARY CLOSURE OF US 29 WITH NORTHBOUND TRAFFIC DETOURED VIA INTERCHANGE RAMPS. AT THE END OF EACH NIGHT, OPEN ALL LANES TO TRAFFIC.

USE THE SAME STEPS FOR TEMPORARY ROAD CLOSURES TO INSTALL GIRDERS OVER NORTHBOUND US 29 IN STEP 11.

STEP 10B) WORK OVER CONSECUTIVE NIGHTS DURING THE ALLOWABLE CLOSURE HOURS, REMOVE EXISTING GIRDERS OF US 158/NC 14 BRIDGE (STAGE 1) OVER SOUTHBOUND US 29 AS FOLLOWS: USE RSD 1101.03 (SHEET 7 OF 9) FOR TEMPORARY CLOSURE OF SOUTHBOUND US 29 WITH TRAFFIC DETOURED VIA INTERCHANGE RAMPS. AT THE END OF EACH NIGHT, OPEN ALL LANES TO TRAFFIC.

USE THE SAME STEPS FOR TEMPORARY ROAD CLOSURES TO INSTALL GIRDERS OVER SOUTHBOUND US 29 IN STEP 11.

STEP 11) WORKING BEHIND BARRIER, CONSTRUCT STAGE I OF THE BRIDGE AND RETAINING WALLS ACCORDING TO THE FOLLOWING STATIONS (SEE TMP-5):

-L- STA. 24+97 +/- TO STA. 26+64 +/- BRIDGE

AND COMPLETE STEP 7 CONSTRUCTION OF -L- (US 158/NC 14)

PHASE II

STEP 1) WORK BEHIND BARRIER AND AWAY FROM TRAFFIC TO PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (RAISED) ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-9)

-L- STA. 22+32 +/- TO STA. 28+85 +/-

AND PLACE PCB ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-9)

-L- STA. 22+80 TO STA. 28+60

STEP 2) USE RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS FOR TEMPORARY LANE CLOSURES AS NEEDED, MODIFY AND COVER THE TEMPORARY SIGNAL AT THE RAMP C/RAMP D INTERSECTION OF -L- (US 158/NC 14).

STEP 3) USE RSD 1101.02 (SHEET 1 AND 3 OF 14) AND FLAGGERS AS NEEDED FOR TEMPORARY US 158 LANE CLOSURES AND COVER TEMPORARY PAVEMENT MARKINGS FROM EASTBOUND ADVANCE LANE CLOSURE BY PLACING 12" BLACK MARKING LINES (SEE LOCAL NOTES) AND PLACE TEMPORARY MARKINGS (PAINT) BACK TO ORIGINAL TRAFFIC PATTERN AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (RAISED) ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-8 THRU TMP-10)

-L- STA. 12+00 +/- TO STA. 22+32 +/-
 -L- STA. 28+85 +/- TO STA. 39+07 +/-

AND PLACE DRUMS AND BARRICADES TO CLOSE THE EASTBOUND US 158 AT BRIDGE, UNCOVER AND ACTIVATE THE TEMPORARY SIGNAL, AND SHIFT US 158 TRAFFIC INTO TEMPORARY -LDET2- PATTERN. (SEE TMP-8 THRU TMP-10)

STEP 4) WORK BEHIND BARRIER, AWAY FROM TRAFFIC OR WITH RSD 1101.02 (SHEETS 1 AND 3 OF 14) AND FLAGGERS, CONSTRUCT -L- (US 158/NC14) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ACCORDING TO THE FOLLOWING STATIONS: (SEE TMP-9 AND TMP-10)

-L- STA. 20+50 +/- TO STA. 24+97 (BRIDGE) +/- RT
 -L- STA. 26+64 (BRIDGE) +/- TO STA. 39+07 +/- RT
 -L- STA. 29+90 +/- TO STA. 33+00 +/- LT

USE DETAIL ON TMP-2D TO CLOSE US 29 RAMP AND DETOUR RAMP TRAFFIC TO THE ADJACENT INTERCHANGE AND CONSTRUCT RAMP

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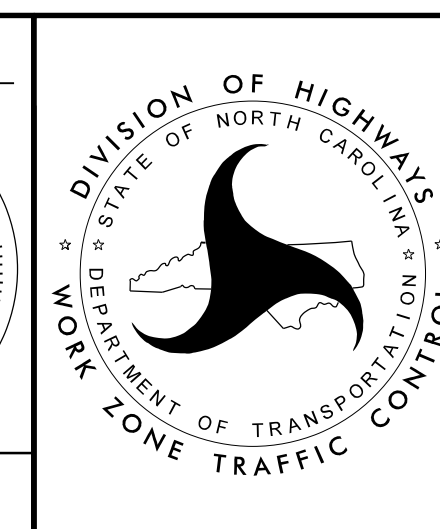


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