PHASING

NOTES:

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES. FIELD VERIFY LOCATIONS WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT, UNLESS OTHERWISE NOTED IN THE PHASING PLANS OR DIRECTED BY THE RESIDENT ENGINEER.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT NO PONDING OF WATER WILL OCCUR WITHIN THE TRAVEL LANE.

WHEN USING LANE CLOSURES (RSD 1101.02), RETURN TRAFFIC TO EXISTING AND/OR TEMPORARY TRAFFIC PATTERN UPON ACTIVITIES COMPLETION, UNLESS OTHERWISE NOTED IN THE PHASING PLANS.

WHEN PHASING STATES TO USE LANE CLOSURES, REFER TO THE FOLLOWING FOR ALL EXISTING AND PROPOSED ROADS:

- -ALL TWO-LANE/TWO-WAY FACILITIES SEE RSD 1101.02 SHEET 1 OF 14
- -ALL 3-LANE OR 5-LANE ROADWAYS SEE RSD 1101.02 SHEET 2 OF 14
- -ALL MULTI-LANE FACILITIES POSTED < 60 MPH SEE RSD 1101.02 SHEET 3 OF 14

COMPLETE PAVING UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE UNTIL STATED TO PLACE FINAL LAYER IN THE PHASING PLANS.

WHEN WEDGING OVER EXISTING PAVEMENT, WEDGE TO PROPOSED ELEVATION (LESS THE FINAL LAYER OF SURFACE COURSE), OR WEDGE AS NEEDED TO MAINTAIN TRAFFIC. MAINTAIN POSITIVE DRAINAGE AND MAINTAIN A MAXIMUM 0.04 ROLLOVER IN BOTH EXISTING AND/OR TEMPORARY TRAVEL LANES.

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

FOR ALL SHOULDER CLOSURES, SEE RSD 1101.04. WHEN PORTABLE CONCRETE BARRIER (PCB) IS PRESENT ON SHOULDERS, PLACE SHOULDER CLOSURE SIGNS & DEVICES IN ADVANCE OF PCB.

PHASE 0

NOTE - COORDINATE WITH THE RESIDENT ENGINEER AND RAILROAD CONTRACTOR BEFORE CLOSING THE ROADWAY. WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED BEGINNING FRIDAY AT 7:00 PM AND ENDING BY THE FOLLOWING MONDAY AT 5:00 AM

STEP 1A - MAIN STREET (SEE SHEET TMP-8.01)

- A) USING ROAD CLOSURES, CLOSE MAIN ST. (-L-) AT RAILROAD CROSSING LOCATION (-L- STA 35+00±), AND DETOUR TRAFFIC OFFSITE.
- SAWCUT THE EXISTING PAVEMENT 2 LF ON BOTH SIDES OF THE TRACK. UPON COMPLETION OF RAILROAD REMOVAL CROSSING BY RAILROAD CONTRACTOR, REPAIR PAVEMENT AT CROSSING.
- C) PLACE TEMPORARY MARKINGS AND MARKERS OBLITERATED AND REOPEN MAIN ST. (-L-). REMOVE OFFSITE DETOUR SIGNING.

NOTE - COORDINATE WITH THE RESIDENT ENGINEER AND RAILROAD CONTRACTOR BEFORE CLOSING THE ROADWAY. WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED BEGINNING FRIDAY AT 7:00 PM AND ENDING BY THE FOLLOWING MONDAY AT 5:00 AM

STEP 1B - ROSSER ROAD (SEE SHEET TMP-8.02)

- A) USING ROAD CLOSURES, CLOSE ROSSER RD. (-Y5-) AT RAILROAD CROSSING LOCATION (-Y5- STA 13+00±), AND DETOUR TRAFFIC OFFSITE.
- SAWCUT THE EXISTING PAVEMENT 2 LF ON BOTH SIDES OF THE TRACK. UPON COMPLETION OF RAILROAD REMOVAL CROSSING BY RAILROAD CONTRACTOR, REPAIR PAVEMENT AT CROSSING.
- C) PLACE TEMPORARY MARKINGS AND MARKERS OBLITERATED AND REOPEN ROSSER RD. (-Y5-). REMOVE OFFSITE DETOUR SIGNING.

NOTE - COORDINATE WITH THE RESIDENT ENGINEER AND RAILROAD CONTRACTOR BEFORE CLOSING THE ROADWAY. WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED BEGINNING FRIDAY AT 7:00 PM AND ENDING BY THE FOLLOWING MONDAY AT 5:00 AM

STEP 1C - NASH STREET (SEE SHEET TMP-8.03)

- A) USING ROAD CLOSURES, CLOSE NASH ST. (-Y3-) AT RAILROAD CROSSING LOCATION (-Y3- STA 17+00±), AND DETOUR TRAFFIC OFFSITE.
- B) SAWCUT THE EXISTING PAVEMENT 2 LF ON BOTH SIDES OF THE TRACK. UPON COMPLETION OF RAILROAD REMOVAL CROSSING BY RAILROAD CONTRACTOR, REPAIR PAVEMENT AT CROSSING.
- C) PLACE TEMPORARY MARKINGS AND MARKERS OBLITERATED AND REOPEN NASH ST. (-Y3-). REMOVE OFFSITE DETOUR SIGNING.

PHASE 1

SEE LOCAL NOTE 1 (TMP-1C) WHEN PERFORMING WATER MAIN INSTALLATION.

STEP 1 (SEE SHEETS TMP-4.01 THRU 4.24)

USING LANE CLOSURES AND AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING:

- -PROPOSED WEDGING AND WIDENING WITH DRAINAGE ALONG -L-:
- -L- STA 18+00± TO STA 50+00± LT
- -L- STA 13+25± TO STA 43+00± RT
- -L- STA 214+00± TO STA 292+00± RT
- -L- STA 289+00± TO STA 304+90± LT

USING LANE CLOSURES AND AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING:

- -PROPOSED WEDGING AND WIDENING WITH DRAINAGE ALONG -L-:
- -L- STA 43+00± TO STA 57+50± RT
- -L- STA 57+50± TO STA 62+50± LT & RT -L- STA 62+50± TO STA 73+75± LT
- -L- STA 73+75± TO STA 88+25± LT & RT
- -L- STA 88+25± TO STA 134+00± RT (EXCEPT FOR AREA IN FRONT OF -Y13-) -L- STA 173+20± TO STA 178+60± LT
- -PROPOSED CONSTRUCTION:
- -L- STA 134+00± TO STA 169+00± EB LANES
- -TEMPORARY WIDENING AT EDGE AND ELEVATION OF EXISTING:
- -L- STA 47+05± TO STA 59+45± (TO TIE RT SIDE CONST. TO EXISTING)
- -L- STA 166+85± TO STA 172+00± LT
- -L- STA 181+40± TO STA 214+00± LT

USING LANE CLOSURES, RESTRIPE TO EXISTING WB NC 42 TO CLOSE OUTSIDE THROUGH-LANE BETWEEN -L- STA 88+25± TO STA 123+00±. INSTALL PORTABLE CONCRETE BARRIER AND CRASH CUSHIONS ALONG WB NC 42 UNDER US 421 OVERPASS. BEHIND BARRIER, CONSTRUCT BRIDGE SLOPE PROTECTION/PROPOSED RETAINING WALL AND SIDEWALK UNDER US 421 BRIDGE. CONSTRUCT PROPOSED WEDGING AND WIDENING FROM -L- STA 88+25± TO STA 123+55± LT.

DURING WIDENING OF -L-, MAINTAIN PEDESTRIAN MOBILITY ALONG THE RIGHT SIDE OF -L- BETWEEN BEGIN PROJECT LIMIT (-L- STA 13+25±) AND -Y1-. THE PROPOSED SIDEWALK MAY BE INSTALLED PRIOR TO THE PROPOSED WIDENING TO MAINTAIN PEDESTRIANS.

NOTE: PHASE 1, STEP 1A MAY BE COMPLETED SIMULTANEOUSLY WITH THE WORK IN PHASE 1. STEP 1 AND PHASE 2.

WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN PHASE 1, STEP 1A IN 30 CONSECUTIVE DAYS.

STEP 1A (SEE SHEETS TMP-4.25 THRU 4.27)

- A) USING ROAD CLOSURES, CLOSE COX MILL RD. (-Y13-) ACCESS TO/FROM -L-AND DETOUR TRAFFIC ÓFFSITE (SEE TMP-2D FOR DETOUR AND SIGNING INFORMATION). CLOSE EXISTING RIGHT-TURN AND LEFT-TURN LANES INTO COX MILL RD.
- B) CONSTRUCT PROPOSED -Y13- TIE TO -L- AND COMPLETE WIDENING AND WEDGING BEGUN IN STEP 1 ALONG RIGHT SIDE OF -L- ENOUGH TO OPEN ACCESS TO EXISTING MAINLINE TRAFFIC PATTERN.
- C) PLACE TEMPORARY MARKINGS AND MARKERS OBLITERATED DURING CONSTRUCTION AND REOPEN COX MILL RD. ACCESS TO /FROM BROADWAY RD. (-L-). REMOVE OFFSITE DETOUR SIGNING.
- NOTE: PHASE 1. STEP 1B MAY BE COMPLETED SIMULTANEOUSLY WITH THE WORK IN PHASE 1, STEP 1 AND PHASE 2.
- WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN PHASE 1, STEP 1B IN 58 CONSECUTIVE HOURS, BEGINNING ON A FRIDAY AT 7:00 PM AND ENDING BY THE FOLLOWING MONDAY AT 5:00 AM.

STEP 1B (SEE SHEETS TMP-2C & 4.17)

- A) USING ROAD CLOSURES, CLOSE BROADWAY RD. (-L-) AT PIPE INSTALLATION LOCATION (-L- STA 228+25±), AND DETOUR TRAFFIC OFFSITE (SEE TMP-2C FOR DETOUR AND SIGNING INFORMATION).
- B) REMOVE EXISTING CROSS PIPE AND INSTALL PROPOSED 72" CROSS PIPE, AND REPAIR PAVEMENT.
- C) PLACE TEMPORARY MARKINGS AND MARKERS OBLITERATED AND REOPEN BROADWAY RD. (-L-). REMOVE OFFSITE DETOUR SIGNING.

<u>STEP 2</u> (SEE SHEETS TMP-5.01 & 5.02)

USING LANE CLOSURES, COMPLETE THE FOLLOWING:

- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -L- FROM STA 163+92± TO STA 179+43± AND SHIFT -L- INTO REVISED TRAFFIC PATTERN.
- INSTALL PORTABLE CONCRETE BARRIER AND CRASH CUSHION ALONG -L-NEAR -Y16- AS SHOWN.
- INSTALL TEMPORARY SHORING REQUIRED FOR THE PROPOSED DRAINAGE PIPE CONSTRUCTION AT -L- STA 171+00±.
- REMOVE PARTIAL EXISTING DRAINAGE PIPE AND INSTALL PARTIAL PROPOSED DRAINAGE PIPE AT -L- STA 171+00±.
- CONSTRUCT TEMPORARY PAVEMENT AND PROPOSED ROAD WIDENING ALONG EASTBOUND -L- FROM STA 169+00±TO STA 179+00±.

PHASE 2

SHEET NO.

TMP-3

PROJ. REFERENCE NO.

R-3830

HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116

SEE LOCAL NOTE 1 (TMP-1C) WHEN PERFORMING WATER MAIN INSTALLATION.

(SEE SHEETS TMP-6.01 THRU 6.14)

USING LANE CLOSURES, COMPLETE THE FOLLOWING:

- REMOVE PHASE 1 PCB AT US 421 INTERCHANGE - INSTALL PHASE 2 PCB SEGMENTS AS SHOWN FROM -L- STA 167+70± TO STA 212+80±
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AND SHIFT MAINLINE TRAFFIC TO TEMPORARY PATTERN FROM -L- STA 41+65± TO STA 212+80± (REMOVE PHASE 1 PCB AS NEEDED TO IMPLEMENT TRAFFIC PATTERN CHANGE). SHIFT AVENT FERRY RD. TRAFFIC TO PROPOSED -Y16-.

USING LANE CLOSURES, COMPLETE THE FOLLOWING:

- INSTALL TEMPORARY SHORING AND CONSTRUCT PROPOSED DRAINAGE CROSS PIPES AT -L- STA 171+00±, STA 190+00± AND STA 205+50±
- INSTALL TEMPORARY SHORING AND CONSTRUCT TEMPORARY PAVEMENT AND PROPOSED PAVEMENT/WIDENING ALONG EASTBOUND -L- FROM STA 178+83± TO STA 214+00±.

AWAY FROM TRAFFIC, CONSTRUCT PROPOSED WIDENING/WEDGING AT THE FOLLOWING LOCATIONS:

- -L- STA 50+00± TO STA 57+50± LT -L- STA 62+50± TO STA 73+75± RT
- -L- FROM STA 123+55± TO -Y16- LT

UNDER FLAGGING OPERATION, CONSTRUCT -Y14- TIE TO -L-.

COMPLETE CONSTRUCTION BEGUN IN PHASE 1.

PHASE 3

STEP 1 (SEE SHEETS TMP-7.01 THRU 7.22)

USING LANE CLOSURES, COMPLETE THE FOLLOWING:

- REMOVE PHASE 2 PCB AS NEEDED TO INSTALL PHASE 3 TRAFFIC PATTERN INSTALL PHASE 3 PCB SEGMENTS AS SHOWN FROM -L- STA 184+10± TO STA
 - 210+70±.
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AND SHIFT MAINLINE TRAFFIC TO TEMPORARY PATTERN FROM -L- STA 13+25± TO STA 79+45± AND FROM -L- STA 117+70± TO STA 292+60± (REMOVE PHASE 2 PCB AS NEEDED TO IMPLEMENT TRAFFIC PATTERN CHANGE).

USING LANE CLOSURES AND AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING:

- CONSTRUCT PROPOSED MEDIAN ALONG -L- FROM BEGIN PROJECT LIMIT TO
- INSTALL TEMPORARY SHORING AND CONSTRUCT PROPOSED DRAINAGE CROSS PIPE AT -L- STA 190+00± AND STA 205+50±. - INSTALL TEMPORARY SHORING AND CONSTRUCT PROPOSED PAVEMENT/WIDENING
- ALONG WESTBOUND -L- FROM STA 178+85± TO STA 214+00±. - REMOVE TEMPORARY PAVEMENT AND TEMPORARY GUARDRAIL ALONG WESTBOUND
- -L- FROM STA 181+40± TO STA 214+00±. - -L- STA 214+00±T0 STA 289+00± WIDENING LT
- -Y17-, -Y19-, -Y20-, -Y21- & -Y22- TIES TO -L-

COMPLETE CONSTRUCTION OF -L- STA 289+00± TO STA 304+90± WIDENING LT

PHASE 4

STEP 1

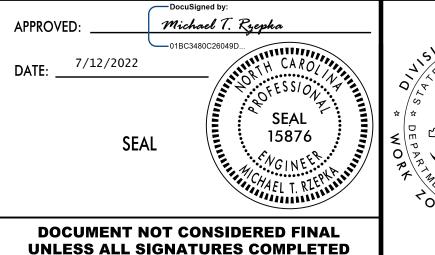
USING LANE CLOSURES AND AWAY FROM TRAFFIC, COMPLETE THE FOLLOWING: - REMOVE PHASE 3 PCB

- INSTALL PROPOSED SIGNALS AND KEEP DEACTIVATED UNTIL FINAL PATTERN

STEP 2

USING LANE CLOSURES COMPLETE THE FOLLOWING:

- PLACE THE FINAL LAYER OF SURFACE COURSE ON -L- AND ALL -Y- LINES
- PLACE FINAL PAVEMENT MARKINGS AND MARKERS AND SHIFT TRAFFIC TO FINAL PATTERN
- ACTIVATE PROPOSED SIGNALS
- REMOVE REMAINING TRAFFIC CONTROL DEVICES FROM THE PROJECT.





TEMPORARY TRAFFIC CONTROL PHASING