



GREENHORNE & O'MARA, INC.
 5565 CENTERVIEW DRIVE, SUITE 107
 RALEIGH, NORTH CAROLINA 27606
 (919) 851-1919

PROJ. REFERENCE NO.	SHEET NO.
R-2539C	TCP-4

PHASING

NOTES:
 RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK DAY UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

USING INCIDENTAL STONE AS NECESSARY, MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

ANY EXCAVATED AREAS ADJACENT TO THE EXISTING ROAD ARE TO BE BACKFILLED AT THE END OF THE WORKDAY BEFORE REOPENING THE THROUGH LANE TO TRAFFIC.

ONCE THE CULVERT CONSTRUCTION AND UNDERCUT AREAS HAVE BEEN COMPLETED, THE CONTRACTOR MAY REMOVE THE WATER-FILLED BARRIER AS NEEDED USING RSD 1101.02, SHEET 1 OF 7, AND CONTINUE WIDENING UP TO EDGE AND ELEVATION OF EXISTING ROADWAY.

WHEN CONSTRUCTING IN THE AREA OF THE EXISTING SIDEWALK ALONG -L- FROM STA 231+50 +/- -L- TO THE END OF THE PROJECT, PLACE TYPE III BARRICADES WITH SIDEWALK CLOSED SIGN (R9-9) ACCORDING TO THE MUTCD OR AS DIRECTED BY THE ENGINEER.

REFER TO LOCAL NOTE 1, SHEET TCP-3, WHEN CONSTRUCTING DRAINAGE BOXES NEXT TO TRAFFIC.

REFER TO LOCAL NOTE 2, SHEET TCP-3, WHEN RELOCATING -Y- LINE INTERSECTIONS.

PHASE I (SEE PHASE I OVERVIEWS, SHEETS TCP-5 THRU TCP-8)

STEP 1:
 INSTALL WORK ZONE SIGNS ACCORDING TO RSD 1110.01 AND SHEET TCP-19.

STEP 2:
 BEGIN INSTALLATION OF TEMPORARY SIGNAL NO. 02-0312T AT -L-/-Y- AND FINAL SIGNAL AT -L-/-Y25- AND COVER.

USING RSD 1101.02, SHEET 1 OF 7, CONDUCT THE FOLLOWING SIMULTANEOUSLY:
 A) INSTALL SHORING ALONG -L- IN THE FOLLOWING LOCATIONS: (SEE OVERVIEWS 1(B) AND 1(C) FOR SHORING LOCATIONS)

STA 195+90 +/- -L- (EB)	TO	STA 196+10 +/- -L- (EB)
STA 196+90 +/- -L- (EB)	TO	STA 198+50 +/- -L- (EB)
STA 198+70 +/- -L- (EB)	TO	STA 199+70 +/- -L- (EB)
STA 200+10 +/- -L- (EB)	TO	STA 200+50 +/- -L- (EB)
STA 200+90 +/- -L- (EB)	TO	STA 201+70 +/- -L- (EB)
STA 202+50 +/- -L- (EB)	TO	STA 202+70 +/- -L- (EB)

B) INSTALL WATER-FILLED BARRIER ALONG -L- IN THE FOLLOWING LOCATIONS: (SEE OVERVIEWS 1(B) AND 1(C) FOR BARRIER LOCATIONS)

STA 195+80 +/- -L- (EB)	TO	STA 201+83 +/- -L- (EB)
STA 196+20 +/- -L- (WB)	TO	STA 197+00 +/- -L- (WB)
STA 199+20 +/- -L- (WB)	TO	STA 200+20 +/- -L- (WB)
STA 202+40 +/- -L- (EB)	TO	STA 202+80 +/- -L- (EB)
STA 205+65 +/- -L- (EB)	TO	STA 206+12 +/- -L- (EB)
STA 205+85 +/- -L- (WB)	TO	STA 206+30 +/- -L- (WB)

STEP 3:
 UNCOVER AND ACTIVATE TEMPORARY SIGNAL NO. 02-0312T AT -L-/-Y- AND BEGIN INSTALLATION AND COVER FINAL SIGNAL AT THIS LOCATION.

BEGIN CONSTRUCTION OF CULVERT EXTENSIONS (RT & LT) AT STA 196+61 +- -L-, STA 199+77 +/- -L-, AND STA 206+02 +/- -L-.

USING RSD 1101.02, SHEET 1 OF 7, BEGIN PROPOSED DRAINAGE; GUARDRAIL AND CURB AND GUTTER WHERE APPLICABLE; AND WIDENING CONSTRUCTION (UP TO EXISTING EDGE AND ELEVATION) IN THE FOLLOWING LOCATIONS, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE: (SEE LOCAL NOTE 3, SHEET TCP-3)

STA 155+43.630 -L- (EB)	TO	STA 236+91.618 -L- (EB)
STA 156+33 +/- -L- (WB)	TO	STA 187+00 +/- -L- (WB)
(OMIT CURB AND GUTTER FROM STA 167+60 +/- -L- (LT SIDE) TO STA 169+00 +/- -L- (LT SIDE))		
STA 187+60 +/- -L- (WB)	TO	STA 203+40 +/- -L- (WB)
STA 203+80 +/- -L- (WB)	TO	STA 204+20 +/- -L- (WB)
STA 205+20 +/- -L- (WB)	TO	STA 236+80 +/- -L- (WB)
STA 10+35.000 -Y-	TO	STA 12+90.000 -Y-
STA 10+10 +/- -Y3-	TO	STA 11+05.000 -Y3-
STA 10+80.000 -Y4-	TO	STA 12+20.000 -Y4-
STA 10+20.000 -Y5-	TO	STA 11+90.000 -Y5-
STA 10+00.981 -Y7-	TO	STA 12+00.000 -Y7-
STA 10+10 +/- -Y10-	TO	STA 10+85.000 -Y10-

STA 10+20.000 -Y14-	TO	STA 10+91 +/- -Y14-
STA 10+09 +/- -Y16-	TO	STA 10+75.000 -Y16-
STA 10+09 +/- -Y18-	TO	STA 11+02.000 -Y18-
STA 10+09 +/- -Y19-	TO	STA 11+40.000 -Y19-
STA 10+13.000 -Y20-	TO	STA 10+93 +/- -Y20-
STA 10+07 +/- -Y21-	TO	STA 10+76.000 -Y21-
STA 10+48.000 -Y22-	TO	STA 10+93 +/- -Y22-
STA 10+45.000 -Y23-	TO	STA 11+40.000 -Y23-

INSTALL AND COVER OFFSITE DETOUR SIGNS FOR CLOSURE OF -Y2-. (SEE DETAIL I-A, SHEET TCP-9)

WORK IN A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING WORK REQUIRED IN PHASE I, STEPS 4-6, WITHIN TWENTY-ONE (21) CONSECUTIVE CALENDAR DAYS.

STEP 4:
 UNCOVER -Y2- OFFSITE DETOUR SIGNING.

USING RSD 1101.03, SHEETS 1 AND 2 OF 9, CLOSE -Y2- AT STA 12+69 +/- -Y2- AND STA 11+75.000 -Y2- AND PLACE IN AN OFFSITE DETOUR. (SEE DETAILS I-A AND I-B, SHEETS TCP-9 AND TCP-10)

STEP 5:
 CONSTRUCT -Y2- FROM STA 11+75.000 -Y2- TO STA 12+69 +/- -Y2-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE DETAIL I-B, SHEET TCP-10)

USING RSD 1101.02, SHEET 1 OF 7, BEGIN PROPOSED DRAINAGE AND WIDENING CONSTRUCTION FROM STA 187+00 +/- -L- (WB) TO STA 187+60 +/- -L- (WB), UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE DETAIL I-B, SHEET TCP-10)

USING RSD 1101.02, SHEET 1 OF 7, COMPLETE WIDENING CONSTRUCTION AND WEDGE THE FOLLOWING, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE: (REPLACE EXISTING MARKINGS AND RETURN TRAFFIC TO EXISTING PATTERN AT THE END OF THE WORK DAY.) (SEE DETAIL I-B, SHEET TCP-10)

STA 186+90 +/- -L-	TO	STA 187+80 +/- -L-
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STEP 6:
 PLACE TEMPORARY MARKINGS AND MARKERS ON -Y2- FROM STA 11+75.000 -Y2- TO STA 12+69 +/- -Y2- AND ON -L- FROM STA 186+90 +/- -L- TO STA 187+80 +/- -L- AS SHOWN ON DETAIL I-C, SHEET TCP-11 AND OPEN -Y2- TO TRAFFIC.

REMOVE -Y2- OFFSITE DETOUR SIGNS.

STEP 7:
 USING RSD 1101.02, SHEET 1 OF 7, CONSTRUCT CUL-DE-SAC ON -Y8- FROM STA 12+02.771 -Y8- TO STA 12+35.500 -Y8-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PERMANENTLY CLOSE -Y8- (MAIN ST) IN THE FOLLOWING LOCATIONS: STA 203+60 +/- -L-, -Y8-/-Y9- INTERSECTION, AND STA 12+91.940 -Y8- (SEE INSET A ON PHASE I OVERVIEW (C), SHEET TCP-7 FOR CLOSURE LOCATIONS) (SEE LOCAL NOTE 4 FOR PERMANENT CLOSURE OF -Y8-)

INSTALL AND COVER OFFSITE DETOUR SIGNS FOR CLOSURE OF -Y9-. (SEE DETAIL I-D, SHEET TCP-12)

WORK IN A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING WORK REQUIRED IN PHASE I, STEPS 8-10, WITHIN TWENTY-ONE (21) CONSECUTIVE CALENDAR DAYS.

STEP 8:
 UNCOVER -Y9- OFFSITE DETOUR SIGNING.

USING RSD 1101.03, SHEETS 1 AND 2 OF 9, CLOSE -Y9- AT STA 10+91 +/- -Y9- AND STA 10+05.000 -Y9- AND PLACE IN AN OFFSITE DETOUR. (SEE DETAILS I-D AND I-E, SHEETS TCP-12 AND TCP-13)

STEP 9:
 CONSTRUCT -Y9- FROM STA 10+05.000 TO STA 10+91 +/- -Y9-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE DETAIL I-E, SHEET TCP-13)

USING RSD 1101.02, SHEET 1 OF 7, BEGIN PROPOSED DRAINAGE; CURB AND GUTTER WHERE APPLICABLE; AND WIDENING CONSTRUCTION FROM STA 203+40 +/- -L- (WB) TO STA 205+20 +/- -L- (WB), UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE DETAIL I-E, SHEET TCP-13)

USING RSD 1101.02, SHEET 1 OF 7, COMPLETE WIDENING CONSTRUCTION AND WEDGE THE FOLLOWING, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE: (REPLACE EXISTING MARKINGS AND RETURN TRAFFIC TO EXISTING PATTERN AT THE END OF THE WORK DAY.) (SEE DETAIL I-E, SHEET TCP-13)

STA 204+50 +/- -L-	TO	STA 205+40 +/- -L-
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STEP 10:
 PLACE TEMPORARY MARKINGS AND MARKERS ON -Y9- FROM STA 10+05.000 -Y9- TO STA 10+94 +/- -Y9- AND ON -L- FROM STA 204+50 +/- -L- TO STA 205+40 +/- -L- AS SHOWN ON DETAIL I-F, SHEET TCP-14 AND OPEN -Y9- TO TRAFFIC.

REMOVE OFFSITE DETOUR SIGNS FOR -Y9-.

PHASE II (SEE PHASE II OVERVIEWS, SHEETS TCP-15 THRU TCP-18)

STEP 1:
 USING RSD 1101.02, SHEET 1 OF 7, COMPLETE WIDENING CONSTRUCTION AND WEDGE THE FOLLOWING, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE: (SEE LOCAL NOTE 3, SHEET TCP-3) (REPLACE EXISTING MARKINGS AT THE END OF EACH WORK DAY.)

STA 155+43.630 -L- (EB)	TO	STA 186+90 +/- -L- (EB)
STA 156+33 +/- -L- (WB)	TO	STA 186+90 +/- -L- (WB)
(INCLUDING CURB AND GUTTER FROM STA 167+60 +/- -L- (LT SIDE) TO STA 169+00 +/- -L- (LT SIDE) OMITTED IN PHASE I, STEP 2)		
STA 187+80 +/- -L-	TO	STA 204+50 +/- -L-
STA 205+40 +/- -L- (EB)	TO	STA 236+91.618 -L- (EB)
STA 205+40 +/- -L- (WB)	TO	STA 236+80 +/- -L- (WB)
STA 10+35.000 -Y-	TO	STA 12+90.000 -Y-
STA 10+13 +/- -Y3-	TO	STA 11+05.000 -Y3-
STA 10+80.000 -Y4-	TO	STA 12+20.000 -Y4-
STA 10+20.000 -Y5-	TO	STA 11+90.000 -Y5-
STA 10+00.981 -Y7-	TO	STA 12+00.000 -Y7-
STA 10+10 +/- -Y10-	TO	STA 10+85.000 -Y10-
STA 10+20.000 -Y14-	TO	STA 10+91 +/- -Y14-
STA 10+09 +/- -Y16-	TO	STA 10+75.000 -Y16-
STA 10+09 +/- -Y18-	TO	STA 11+02.000 -Y18-
STA 10+09 +/- -Y19-	TO	STA 11+40.000 -Y19-
STA 10+13.000 -Y20-	TO	STA 10+93 +/- -Y20-
STA 10+07 +/- -Y21-	TO	STA 10+76.000 -Y21-
STA 10+48.000 -Y22-	TO	STA 10+93 +/- -Y22-
STA 10+45.000 -Y23-	TO	STA 11+40.000 -Y23-

PERMANENTLY CLOSE -Y24- TO TRAFFIC, INSTALL GUARDRAIL & END OF ROAD OBJECT MARKERS, OBLITERATE PAVEMENT AT -Y24- AS SHOWN ON ROADWAY PLANS, AND USING RSD 1101.02, SHEET 1 OF 7, CONSTRUCT PROPOSED ROADWAY ACROSS EXISTING -Y24-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

COMPLETE CULVERT EXTENSIONS (RT & LT) AT STA 196+61 +- -L-, STA 199+77 +/- -L-, AND STA 206+02 +/- -L-.

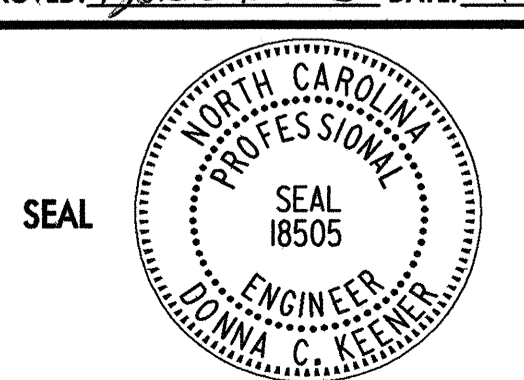
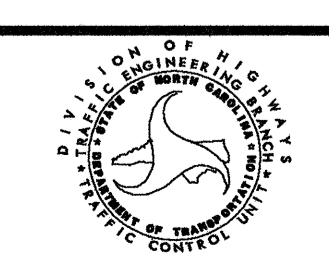
STEP 2:
 USING RSD 1101.02, SHEET 1 OF 7, PLACE TEMPORARY MARKINGS AND MARKERS ON ALL ROADS IN THE FINAL PATTERN (USING PAINT MARKINGS AND TEMPORARY RAISED MARKERS IN LIEU OF THERMOPLASTIC AND PERMANENT RAISED MARKERS), COMPLETE AND ACTIVATE FINAL SIGNALS AT -Y-/-L- AND -L-/-Y25-, AND OPEN TRAFFIC TO THE FINAL PATTERN. (SEE PM-1 THRU PM-14)

STEP 3:
 USING RSD 1101.02, SHEETS 1, 2, & 4 OF 7, PLACE FINAL LAYER OF SURFACE COURSE AND FINAL MARKINGS AND MARKERS ON ALL ROADS AND OPEN TO THE FINAL PATTERN. (SEE PM-1 THRU PM-14)

USING RSD 1101.02, SHEETS 1, 2, & 4 OF 7, RESURFACE AND PLACE THE FINAL MARKINGS AND MARKERS ON THE FOLLOWING, AND OPEN TO THE FINAL PATTERN:

STA 10+00.000 -Y25-	TO	STA 10+27+903 -Y25-
STA 236+91.618 -L-	TO	STA 238+30.000 -L-
STA 10+05 +/- NC 304	TO	STA 11+50.000 NC 304

STEP 4:
 REMOVE ANY REMAINING WORK ZONE TRAFFIC CONTROL DEVICES.

APPROVED: <i>Donna C. Leifer</i> DATE: 9-3-04	PHASING	
	SCALE: NONE	REVISIONS
	DATE: 8/2/04	
	DESIGN BY: PMW	
	REVIEWED BY: DCK	
		CAD FILE: R2539CPHASING.DGN

*****SYSTEM*****
 *****USER*****