

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.

U-3447

SHEET NO.

TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION**

MECKLENBURG COUNTY

LEGEND

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

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PM-1	FINAL PAVEMENT MARKING SCHEDULE
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GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT. EXIST. PVMT.
- PROPOSED CONSTRUCTION
- REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

- TYPE I BARRICADE
- TYPE II BARRICADE
- TYPE III BARRICADE
- CONE
- DRUM
- FLASHING ARROW PANEL (TYPE C)
- TYPE 'B' WARNING LIGHT
- STATIONARY SIGN
- PORTABLE SIGN
- STATIONARY OR PORTABLE SIGN
- WARNING FLAGS
- CRASH CUSHION
- CHANGEABLE MESSAGE SIGN
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- POLICE
- FLAGGER

PAVEMENT MARKINGS

- CRYSTAL/CRYSTAL PAVEMENT MARKER
- YELLOW/YELLOW PAVEMENT MARKER
- CRYSTAL/RED PAVEMENT MARKER
- PAVEMENT MARKING SYMBOLS

U-3447

TIP PROJECT:

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PLAN REVIEWED BY: WORK ZONE TRAFFIC CONTROL UNIT J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER J. ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER J. PORTANOVA, P.E. TRAFFIC CONTROL PROJ. DESIGN ENGINEER TRAFFIC CONTROL DESIGN ENGINEER TRAFFIC CONTROL DESIGN TECHNICIAN		APPROVED: <i>Michael T. Rzepka</i> DATE: 6-6-07 SEAL 	PLAN PREPARED FOR N.C.D.O.T. BY: M. T. RZEPKA, P.E. PROJECT ENGINEER G. E. PARKER DESIGN ENGINEER B. L. MARIOTTE DESIGN TECHNICIAN
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TEMP. PAV'T MARKING SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY BREAKDOWN	PAY ITEM	TOTAL QUANTITY
PAVEMENT MARKING LINES				
PA	WHITE EDGELINE	26870 ft	PAINT (4")	
PB	YELLOW EDGELINE	21672 ft		
PC	10 ft. WHITE SKIP	219 ft		
PD	2 ft. WHITE MINISKIP	407 ft		
PE	WHITE SOLID LANE LINE	4550 ft		
PF	10 ft. YELLOW SKIP	300 ft		
PH	YELLOW SINGLE CENTER LINE	1200 ft		
PI	YELLOW DOUBLE CENTER LINE	47164 ft		
			TOTAL	102382 ft
PAINT (8")				
PS	WHITE DIAGONAL	670 ft		
			TOTAL	670 ft
PAINT (24")				
P4	WHITE STOP BAR	306 ft		
			TOTAL	306 ft
COLD APPLIED PLASTIC (4") TYPE 4-REMOVABLE TAPE				
CA	WHITE EDGELINE	3382 ft		
CB	YELLOW EDGELINE	2725 ft		
CI	YELLOW DOUBLE CENTER LINE	2014 ft		
			TOTAL	8121 ft
PAVEMENT MARKING SYMBOLS				
PAINT				
QA	LEFT TURN ARROW	36 EA		
QB	RIGHT TURN ARROW	22 EA		
QC	STRAIGHT ARROW	20 EA		
			TOTAL	78 EA
PAVEMENT MARKERS				
TEMPORARY RAISED				
MH	YELLOW AND YELLOW	209 EA		
MI	CRYSTAL AND RED	170 EA		
			TOTAL	379 EA

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 For Division of Highways

APPROVED: <i>Michael T. Rieppel</i> DATE: 6-6-07	<h3 style="margin: 0;">TEMPORARY PAVEMENT MARKING SCHEDULE</h3>	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>								
SEAL 		SCALE: NONE DATE: 5-07 DWG. BY: B.L.M. DESIGN BY: G.E.P. REVIEWED BY: M.T.R.								

GENERAL NOTES

PROJECT NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-3447	TCP-3

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
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1. NC 51 (ROCK HILL-PINEVILLE RD.) 6:00AM-8:00PM MONDAY-SUNDAY

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

1. NC 51 (ROCK HILL-PINEVILLE RD.)

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY, THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A SATURDAY, SUNDAY OR MONDAY, THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>	<u>DURATION AND OPERATION</u>
1. NC 51 (ROCK HILL-PINEVILLE RD.)	6:00AM -8:00PM MONDAY-SUNDAY	15 MIN PAVEMENT MARKING TIE-IN / TRAFFIC SHIFTS

D) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
1. NC 51 (ROCK HILL-PINEVILLE RD.)	6:00AM-9:00AM MONDAY-SUNDAY 4:00PM-8:00PM MONDAY-SUNDAY

LANE AND SHOULDER CLOSURE REQUIREMENTS

- E) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY DIRECTION, ON NC 51, ROCK HILL-PINEVILLE RD.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES.

TRAFFIC PATTERN ALTERATIONS

L) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

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APPROVED: <i>Michael T. Kieper</i> DATE: 6-6-07		PROJECT NOTES	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 5-07		
	DWG. BY: B.L.M.		
	DESIGN BY: G.E.P.		
REVIEWED BY: M.T.R.			

PROJECT NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-3447	TCP-4

GENERAL NOTES

SIGNING

- M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- N) STATE FORCES WILL BE RESPONSIBLE FOR PERMANENT SIGNING.
- O) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- P) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC BARRIER

- R) INSTALL WATER-FILLED BARRIER ACCORDING TO MANUFACTURERS INSTRUCTIONS AND THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE WATER-FILLED BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

INSTALL WATER-FILLED BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE WATER-FILLED BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE WATER-FILLED BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

TRAFFIC CONTROL DEVICES

- S) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180, OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- T) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- U) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

- V) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
1. -L-, NC 51	THERMOPLASTIC	PERMANENT RAISED
2. -Y-, SR 3664 (MILLER ROAD)	THERMOPLASTIC	PERMANENT RAISED
3. -Y1-, SR 1129 (DOWNS ROAD)	THERMOPLASTIC	PERMANENT RAISED
4. -Y2-, SR 3645 (DOWNS CIRCLE)	THERMOPLASTIC	PERMANENT RAISED

- W) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
1. -L-, NC 51	PAINT/REMOVABLE TAPE	TEMPORARY RAISED.
2. -Y-, SR 3664 (MILLER ROAD)	PAINT	TEMPORARY RAISED
3. -Y1-, SR 1129 (DOWNS ROAD)	PAINT	TEMPORARY RAISED
4. -Y2-, SR 3645 (DOWNS CIRCLE)	PAINT	TEMPORARY RAISED

- X) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

- Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

TEMPORARY/FINAL SIGNALS

- AA) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

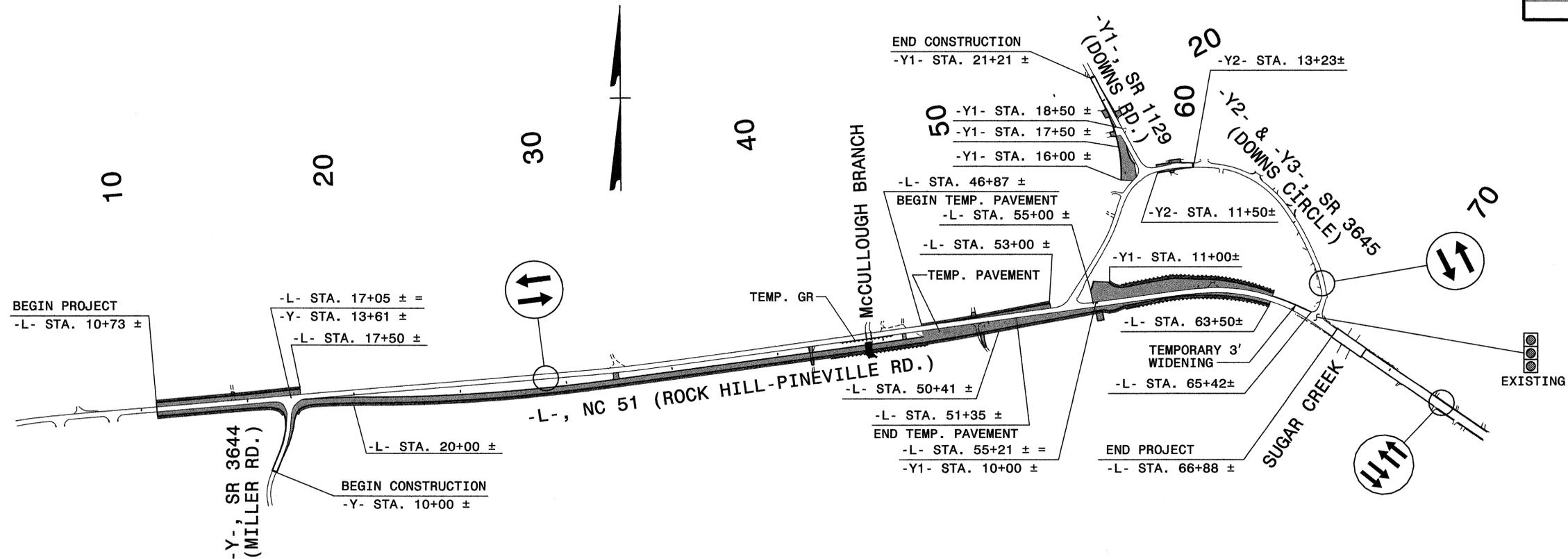
MISCELLANEOUS

- BB) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

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For Division of Highways

APPROVED: <i>Michael R. Roper</i> DATE: 6-6-07	PROJECT NOTES						
SEAL 	SCALE: NONE DATE: 5-07 DWG. BY: B.L.M. DESIGN BY: G.E.P. REVIEWED BY: M.T.R.	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <th style="text-align: left;">REVISIONS</th> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </table>	REVISIONS				
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PHASE I

- STEP 1: INSTALL WORK ZONE SIGNS. (SEE SHEET TCP-24)
- STEP 2: BEGIN INSTALLATION OF TEMPORARY AND PROPOSED DRAINAGE AS MUCH AS POSSIBLE AS SHOWN IN ROADWAY PLANS EXCLUDING DRAINAGE PIPES AND BOXES WHICH ARE LOCATED WITHIN AND ALONG EXISTING PAVEMENT. USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, WHEN INSTALLING PROPOSED DRAINAGE OR REMOVING EXISTING DRAINAGE ACROSS EXISTING PAVEMENT. REMOVE LANE CLOSURE AND RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK PERIOD.
- INSTALL 60" STEEL PIPE AT -L- STA. 59+34± BY TRENCHLESS METHOD AND DIVERT FLOW FROM EXISTING CULVERT INTO NEW PIPE.
- USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, INSTALL TEMPORARY GUARDRAIL ALONG RIGHT SIDE OF EXISTING -L- (NC 51, ROCK HILL - PINEVILLE RD.) FROM -L- STA. 43+00± TO -L- STA. 45+50± PRIOR TO BEGINNING CULVERT CONSTRUCTION. (SEE SHEET TCP-8 AND ROADWAY PLANS FOR EXACT GUARDRAIL PLACEMENT) REMOVE LANE CLOSURE AND RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK PERIOD.
- AWAY FROM TRAFFIC, INSTALL TEMPORARY DRAINAGE PIPE AT CULVERT TO DIVERT WATER AROUND CONSTRUCTION SITE. BEGIN CONSTRUCTING CULVERT BARRELS 1, 2 & 3 AND DOWNSTREAM WING WALLS.
- AWAY FROM TRAFFIC, BEGIN CONSTRUCTING THE RIGHT SIDE OF -L- UP TO BUT NOT INCLUDING FINAL LAYER OF ASPHALT FROM -L- STA. 20+00± TO -L- STA. 50+41±. (SEE SHEETS TCP-6 THRU TCP-9)
- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, PAVE/WEDGE EXISTING -L- (NC 51, ROCK HILL - PINEVILLE RD.) PAVEMENT (FULL WIDTH) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 10+73± TO -L- STA. 17+50± (INCLUDING -Y- LINE (SR 3644, MILLER RD.) FROM -Y- STA. 10+00± TO -Y- STA. 13+49±) AND FROM -L- STA. 46+87± TO -L- STA. 63+50±. AT EACH END OF THE PAVE/WEDGE SECTIONS AND AFFECTED -Y- LINES, USING ASPHALT, SMOOTHLY TRANSITION TO EXISTING PAVEMENT. REMOVE LANE CLOSURE AND RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK PERIOD.

- STEP 4: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, BEGIN CONSTRUCTING THE FOLLOWING:
- LEFT AND RIGHT SIDE WIDENING OF EXISTING -L- (NC 51, ROCK HILL - PINEVILLE RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF ASPHALT FROM -L- STA. 10+73± TO -L- STA. 17+50± (INCLUDING -Y- LINE (SR 3644, MILLER RD.) FROM -Y- STA. 10+00± TO -Y- STA. 13+49±). (SEE SHEET TCP-6)
- LEFT SIDE WIDENING OF EXISTING -L- (NC 51, ROCK HILL - PINEVILLE RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF ASPHALT FROM -L- STA. 46+87± TO -L- STA. 53+00±. (SEE SHEETS TCP-8 AND TCP-9)
- RIGHT SIDE OF -L- UP TO BUT NOT INCLUDING FINAL LAYER OF ASPHALT FROM -L- STA. 17+50± TO -L- STA. 20+00±. (SEE SHEET TCP-6)
- RIGHT SIDE OF -L- UP TO BUT NOT INCLUDING FINAL LAYER OF ASPHALT FROM -L- STA. 50+41± TO -L- STA. 51+35±. (SEE SHEET TCP-9)
- RIGHT SIDE WIDENING OF EXISTING -L- (NC 51, ROCK HILL - PINEVILLE RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF ASPHALT FROM -L- STA. 51+35± TO -L- STA. 63+50±. (SEE SHEETS TCP-9 AND TCP-10)
- LEFT SIDE WIDENING OF EXISTING -L- (NC 51, ROCK HILL - PINEVILLE RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF ASPHALT FROM -L- STA. 55+00± TO -L- STA. 63+50±. (SEE SHEETS TCP-9 AND TCP-10)
- Y1- (FULL WIDTH) UP TO BUT NOT INCLUDING FINAL LAYER OF ASPHALT FROM -Y1- STA. 16+00± TO -Y1- STA. 17+50±. (SEE SHEET TCP-11)
- LEFT SIDE WIDENING OF EXISTING -Y1- (SR 1129, DOWNS RD.) UP TO EXISTING EDGE OF PAVEMENT ELEVATION FROM -Y1- STA. 17+50± TO -Y1- STA. 21+21±. (SEE SHEET TCP-11)

- RIGHT AND LEFT SIDE WIDENING OF EXISTING -Y2- (SR 3645, DOWNS RD.) UP TO EXISTING EDGE OF PAVEMENT ELEVATION FROM -Y2- STA. 11+50± TO -Y2- STA. 13+23±. (SEE SHEET TCP-11)
- 3' TEMPORARY WIDENING ON LEFT SIDE OF EXISTING -L- (NC 51, ROCK HILL - PINEVILLE RD.) UP TO EXISTING EDGE OF PAVEMENT ELEVATION FROM -L- STA. 63+50± TO -L- STA. 65+42±. (SEE SHEET TCP-10)
- TEMPORARY PAVEMENT FROM RIGHT EDGE OF EXISTING -L- LINE (NC 51, ROCK HILL - PINEVILLE RD.) TO MEDIAN EDGE OF PROPOSED RIGHT LANE OF -L- FROM -L- STA. 46+87± TO -L- STA. 51+35±. (SEE SHEETS TCP-8 AND TCP-9)
- REMOVE LANE CLOSURE AND RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK PERIOD.

LEGEND	
	PROPOSED CONSTRUCTION

APPROVED: <i>Michael T. Kozma</i> DATE: 6-6-07	PHASE I, OVERVIEW AND PHASING	
	SCALE: NONE	
	DATE: 5-07	
	DWG. BY: B.L.M.	
	DESIGN BY: G.E.P.	
REVIEWED BY: M.T.R.	REVISIONS	

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BEGIN PROJECT

-L- STA. 10+73 ±

-L- STA. 17+05 ± =
-Y- STA. 13+61 ±

-L- STA. 17+50 ±

-L- STA. 20+00 ±

PLACE SIGN W6-3
EVERY 0.25 MILE

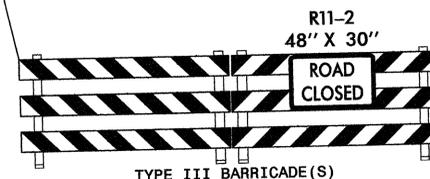
90' MAX.
(TYP.)

10'
(TYP.)



SEE SHEET TCP-7

-L-, NC 51 (ROCK HILL - PINEVILLE RD.)



-Y-, SR 3644 (MILLER RD.)

BEGIN CONSTRUCTION
-Y- STA. 10+00 ±

NOTE: CONCRETE MEDIAN CURB AND GUTTER WILL BE CONSTRUCTED IN AREAS OF DRIVEWAYS OR INTERSECTIONS IN PHASE IV.

LEGEND	
	PROPOSED CONSTRUCTION

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RALEIGH, N.C. 27606
For Division of Highways

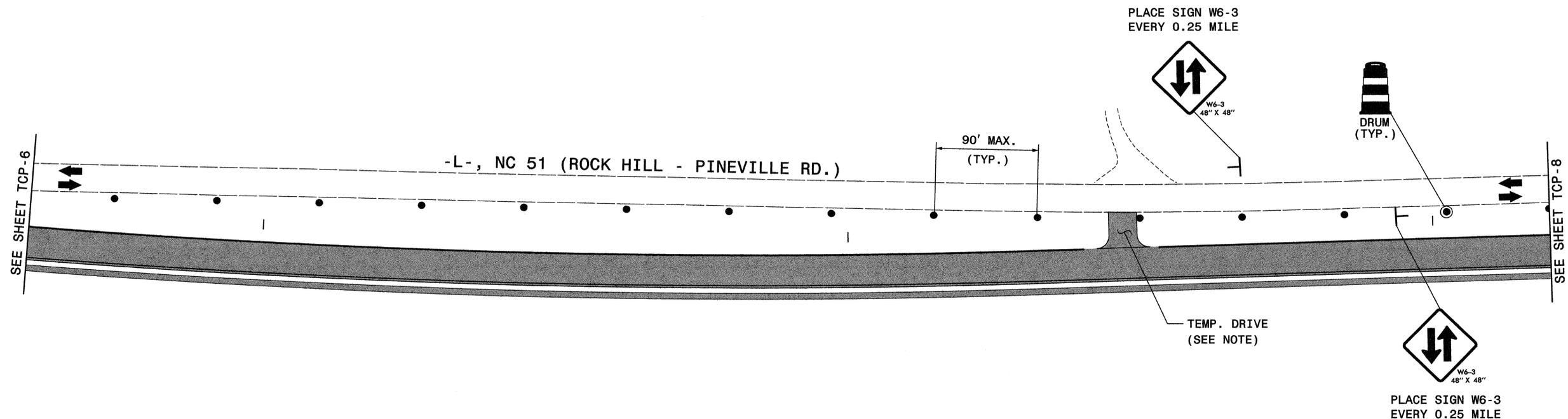
APPROVED: <i>Michael T. Kozma</i> DATE: 6-6-07	PHASE I, DETAIL 1	
SCALE: NONE		REVISIONS
DATE: 5-07		
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DESIGN BY: G.E.P.		
REVIEWED BY: M.T.R.		CADD FILE

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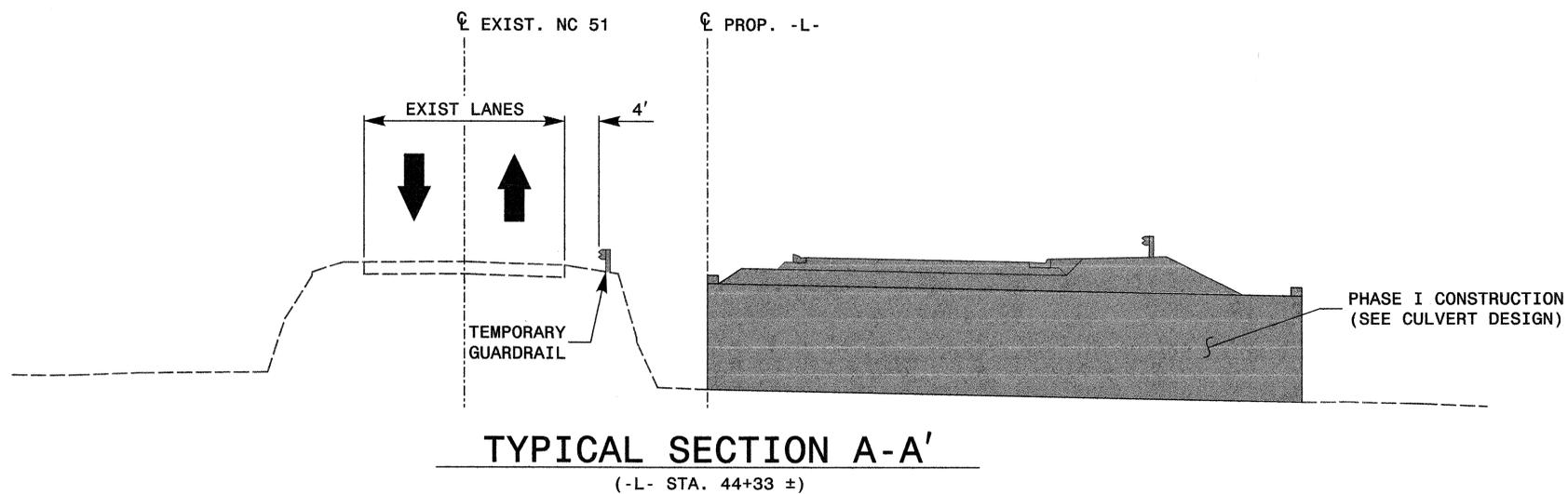
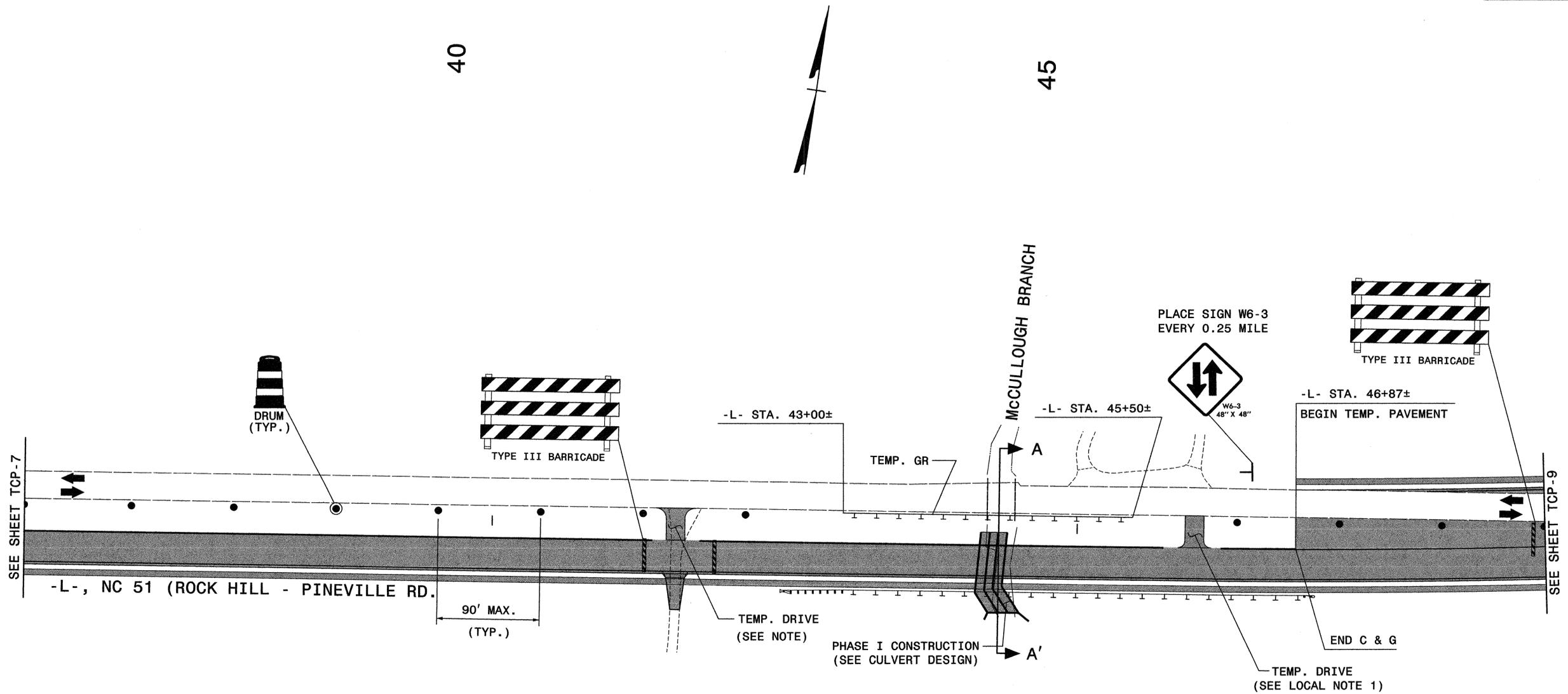
NOTE: CONCRETE MEDIAN CURB AND GUTTER WILL BE CONSTRUCTED IN AREAS OF DRIVEWAYS OR INTERSECTIONS IN PHASE IV.

Plans prepared by:
RO & ASSOCIATES, P.C.
 Consulting Engineers
 1011 SCHAUH DR., SUITE #202
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LEGEND	
	PROPOSED CONSTRUCTION

APPROVED: <i>Michael T. Rzepka</i> DATE: 6-6-07		PHASE I, DETAIL 2											
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DATE: 5-07													
DWG. BY: B.L.M.													
DESIGN BY: G.E.P.													
REVIEWED BY: M.T.R.													
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NOTE: CONCRETE MEDIAN CURB AND GUTTER WILL BE CONSTRUCTED IN AREAS OF DRIVEWAYS OR INTERSECTIONS IN PHASE IV.

LEGEND

PROPOSED CONSTRUCTION

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 For Division of Highways

APPROVED: *M.T.R.* DATE: 6-6-07

PHASE I, DETAIL 3

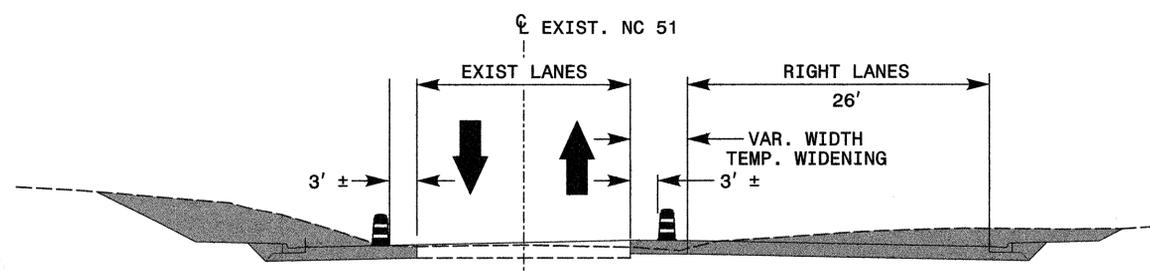
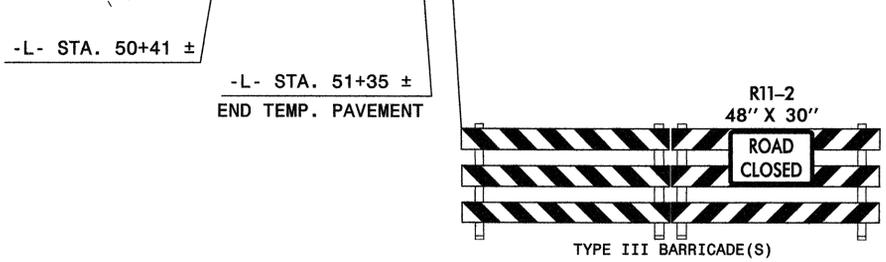
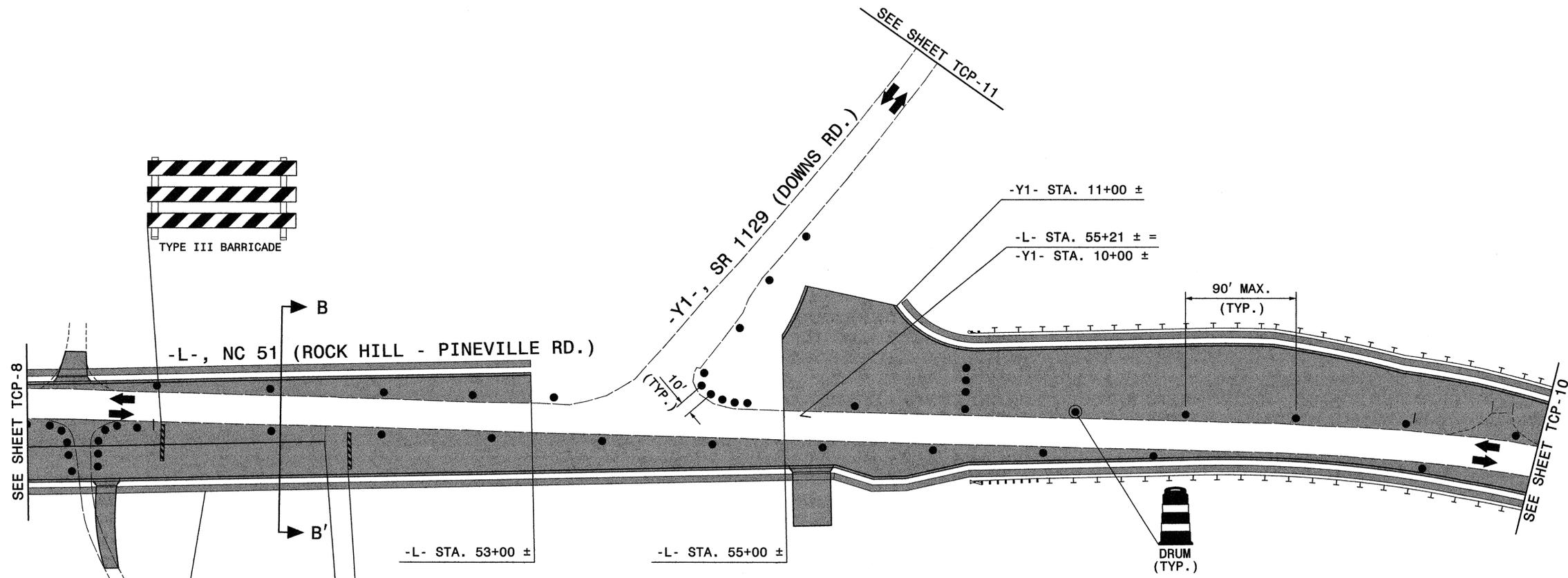
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TYPICAL SECTION B-B'
(-L- STA. 51+00 ±)

NOTE: CONCRETE MEDIAN CURB AND GUTTER WILL BE CONSTRUCTED IN AREAS OF DRIVEWAYS OR INTERSECTIONS IN PHASE IV.

LEGEND	
	PROPOSED CONSTRUCTION

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APPROVED: *Michael T. Kephart* DATE: 6-6-07



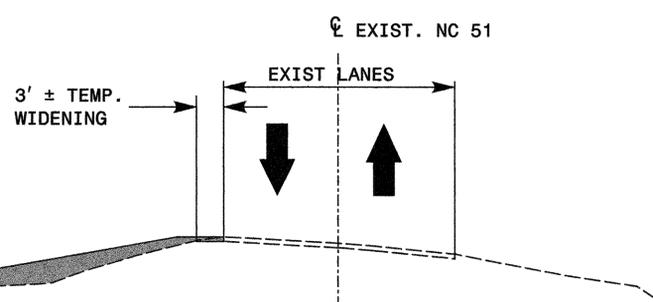
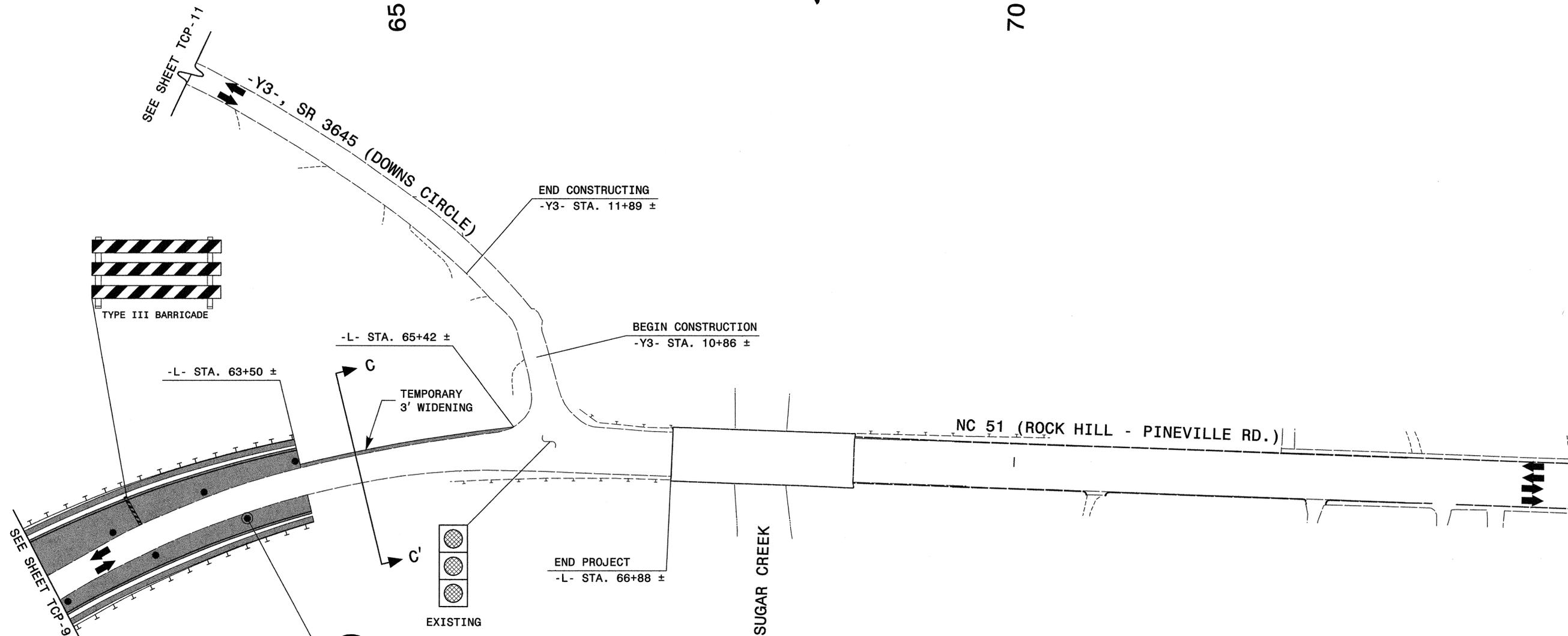
PHASE I, DETAIL 4

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DWG. BY:	B.L.M.
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REVISIONS	

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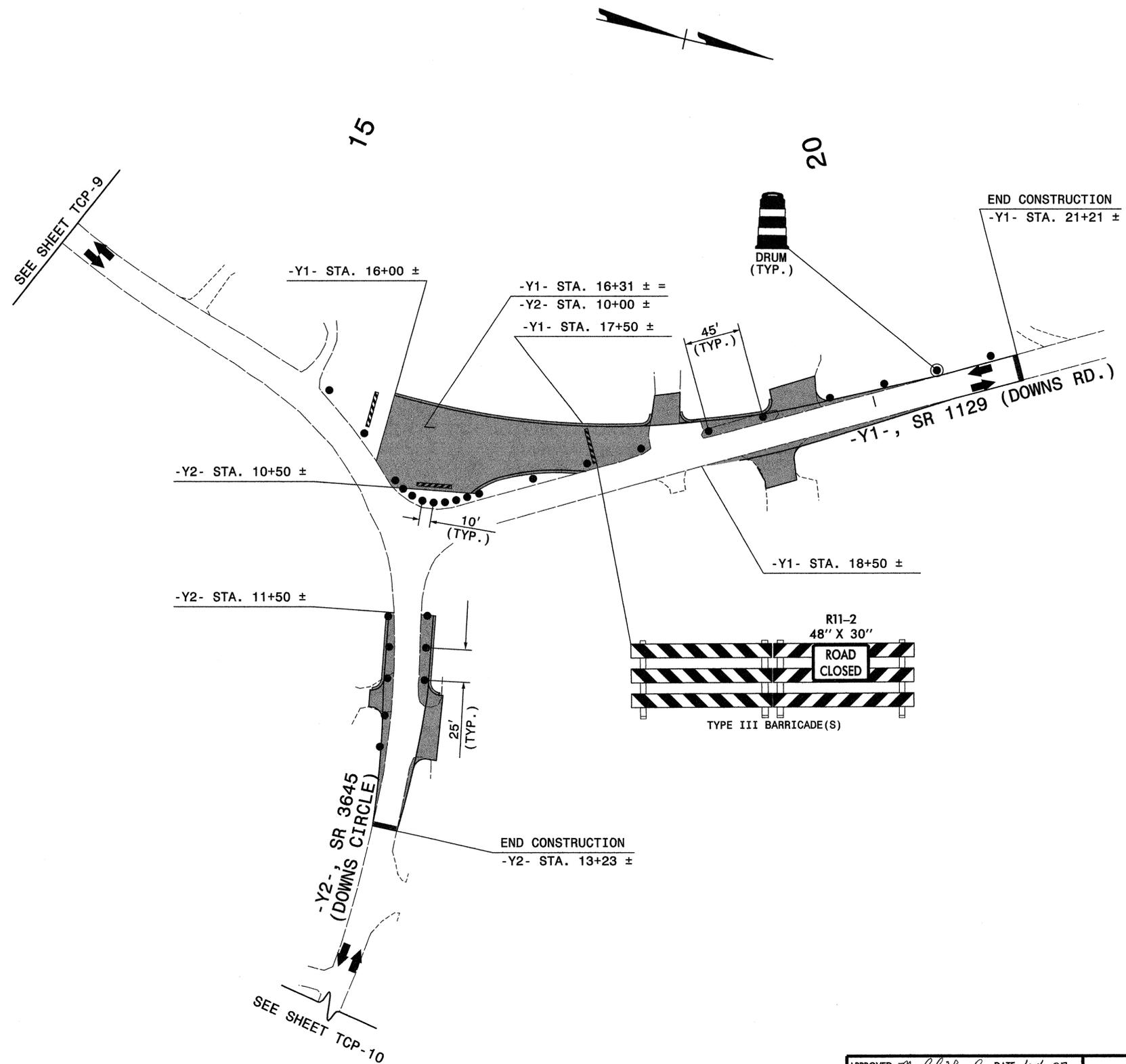


LEGEND	
	PROPOSED CONSTRUCTION

APPROVED: <i>Michael T. Rzepka</i> DATE: 6-6-07	PHASE I, DETAIL 5												
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DATE: 5-07													
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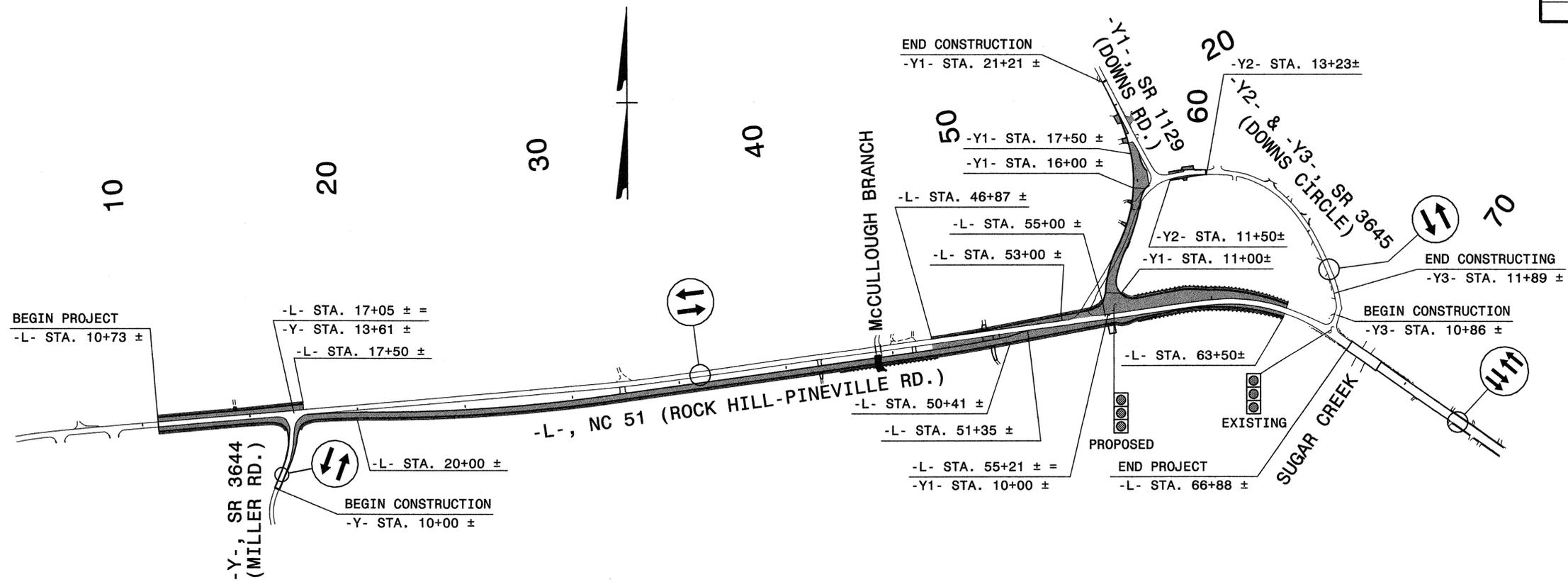


LEGEND	
	PROPOSED CONSTRUCTION

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APPROVED: <i>Michael T. Kepp</i> DATE: 6-6-07		PHASE I, DETAIL 6	
	SCALE: NONE		REVISIONS
	DATE: 5-07		
	DWG. BY: B.L.M.		
	DESIGN BY: G.E.P.		
	REVIEWED BY: M.T.R.		



PHASE II

- STEP 1: CONTINUE ALL WORK STARTED IN PHASE I.
 - STEP 2: USING TYPE III BARRICADES, CLOSE EXISTING SR 1129, DOWNS RD. BETWEEN -L- LINE (NC 51, ROCK HILL - PINEVILLE RD.) AND SR 3645, DOWNS CIRCLE. (SEE SHEET TCP-13)
 - STEP 3: AWAY FROM TRAFFIC, CONSTRUCT -Y1- (SR 1129, DOWNS RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y1- STA. 11+00± TO -Y1- STA. 16+00± INCLUDING CURB AND GUTTER ON BOTH SIDES.
- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, CONSTRUCT LEFT SIDE WIDENING OF EXISTING NC 51 (ROCK HILL - PINEVILLE RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 53+00± TO -L- STA. 55+00± INCLUDING CURB AND GUTTER.
- REMOVE LANE CLOSURE AND RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK PERIOD.
- INSTALL FINAL TRAFFIC SIGNAL AND MODIFY SIGNAL HEAD PLACEMENT TO ACCOMMODATE PHASE III TRAFFIC PATTERN AT INTERSECTION OF -L- (NC 51, ROCK HILL - PINEVILLE RD.) AND -Y1- (SR 1129, DOWNS RD.) (SEE SIGNAL PLANS AND SHEET TCP-17)

LEGEND	
	PROPOSED CONSTRUCTION

APPROVED: *Michael T. Rzepka* DATE: 6-6-07



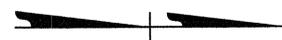
PHASE II, OVERVIEW AND PHASING

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REVIEWED BY: M.T.R.		

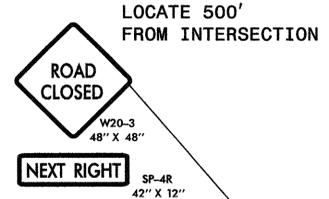
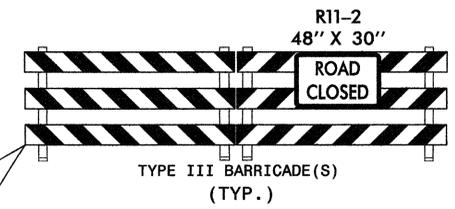
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SEE ROADWAY STANDARD DRAWING
NO. 1101.03, SHEET 2 OF 9



-L- STA. 53+00 ±



-L- STA. 55+00 ±

-L- STA. 55+21 ± =
-Y1- STA. 10+00 ±

-Y1- SR 1129 (DOWNS RD.)

55

15

-Y1- STA. 16+00 ±

-Y1- STA. 16+31 ± =
-Y2- STA. 10+00 ±



END CONSTRUCTION
-Y1- STA. 21+21 ±

-L- STA. 55+21 ± =
-Y1- STA. 10+00 ±

-Y1- STA. 11+00 ±



-L-, NC 51 (ROCK HILL - PINEVILLE RD.)

90' MAX.
(TYP.)

SEE ROADWAY STANDARD DRAWING
NO. 1101.03, SHEET 2 OF 9

-Y2- STA. 11+50 ±

-Y2- STA. 10+50 ±

60

END CONSTRUCTION
-Y2- STA. 13+23 ±

-Y2-, SR 3645
(DOWNS CIRCLE)



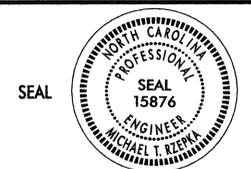
LOCATE 500'
FROM INTERSECTION

LEGEND

PROPOSED CONSTRUCTION

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APPROVED: *M. T. R.* DATE: 6-6-07



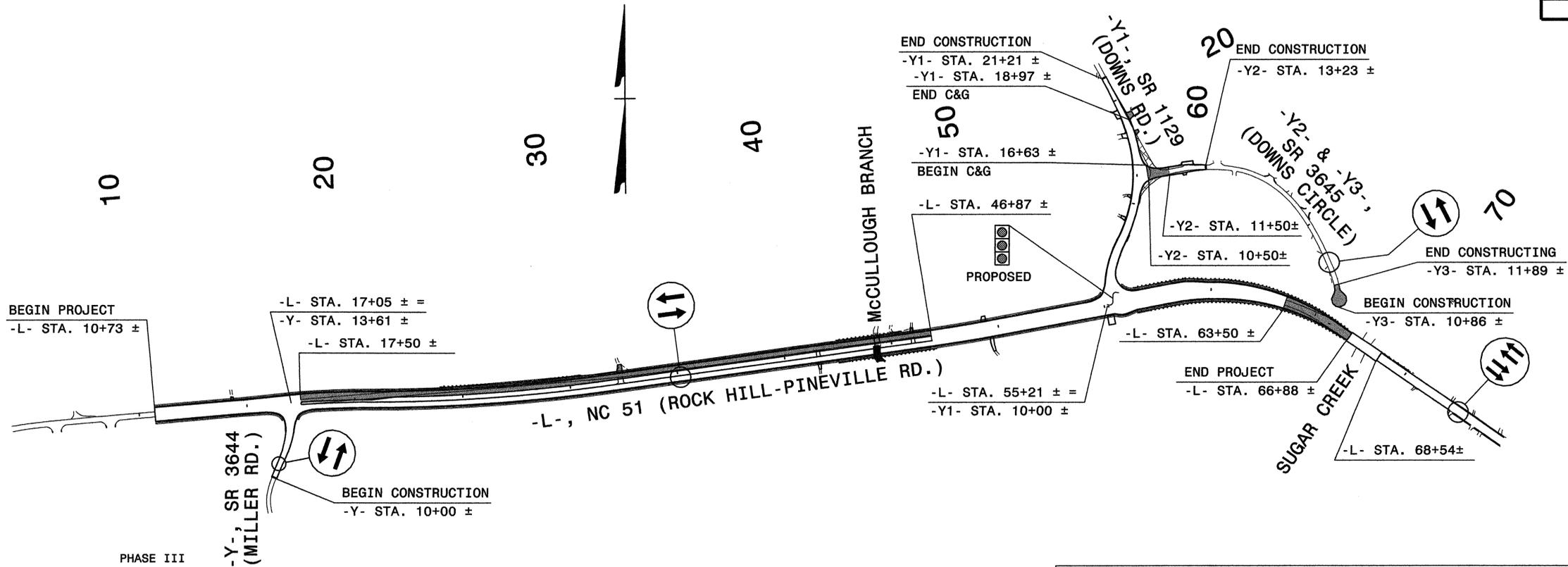
PHASE II, DETAIL 1

SCALE: NONE
DATE: 5-07
DWG. BY: B.L.M.
DESIGN BY: G.E.P.
REVIEWED BY: M.T.R.



REVISIONS

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STEP 1: COMPLETE CONSTRUCTION OF -Y1- (SR 1129, DOWNS RD.), -Y2- (SR 3645, DOWNS CIRCLE), RIGHT SIDE OF -L- (NC 51, ROCK HILL - PINEVILLE RD.) FROM -L- STA. 10+73± TO -L- STA. 46+87± AND BOTH SIDES OF -L- LINE FROM -L- STA. 46+87± TO -L- STA. 63+50± WHICH WAS STARTED IN PHASE I.

COMPLETE THE WORK REQUIRED OF PHASE III, STEP 2 THRU STEP 4 FROM 8:00PM SATURDAY TO 6:00AM MONDAY. (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, PAVE/WEDGE LEFT LANE OF -Y1- (SR 1129, DOWNS RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y1- STA. 16+00± TO -Y1- STA. 21+21±.

STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, SWITCH DOWNS RD. TRAFFIC ONTO COMPLETED LEFT LANE OF -Y1-.

SIMULTANEOUSLY, USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 AND 2 OF 9, AND TYPE III BARRICADES, CLOSE -Y2- (SR 3645, DOWNS CIRCLE) BETWEEN -Y1- (SR 1129, DOWNS RD.) AND -Y2- STA. 11+50±. (SEE SHEET TCP-17) AND USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, SWITCH -L- (NC 51, ROCK HILL - PINEVILLE RD.) TRAFFIC ONTO THE COMPLETED EASTBOUND LANES AS SHOWN ON SHEETS TCP-15 THRU TCP-17. PLACE TEMPORARY PAVEMENT MARKING LINES, ACTIVATE PROPOSED TRAFFIC SIGNAL AT -Y1-, DEACTIVATE EXISTING SIGNAL AT -Y3- AND REMOVE ALL CONFLICTING MARKINGS. REMOVE LANE CLOSURE ON -L- LINE.

STEP 4: PAVE/WEDGE RIGHT LANE OF -Y1- (SR 1129, DOWNS RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y1- STA. 16+00± TO -Y1- STA. 21+21±.

INSTALL TEMPORARY PAVEMENT MARKING LINES ON -Y1- (SR 1129, DOWNS RD.) FROM -Y1- STA. 16+00± TO -Y1- STA. 21+21±. (SEE SHEET TCP-17 AND REFER TO SHEETS PM-3 AND PM-4) DRUM OFF LEFT TURN LANE FROM -Y1- STA. 16+60± TO -Y1- STA. 20+00±, REMOVE LANE CLOSURE AND OPEN ALL LANES UP TO TRAFFIC AS SHOWN ON SHEETS TCP-17.

STEP 5: AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF LEFT SIDE OF -L- (NC 51, ROCK HILL - PINEVILLE RD.) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 17+50± TO -L- STA. 46+87± INCLUDING PHASES II AND III OF PROPOSED CULVERT.

AWAY FROM TRAFFIC, CONSTRUCT -Y2- (SR 3645, DOWNS CIRCLE) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y2- STA. 10+50± TO -Y2- STA. 11+50±. (SEE SHEET TCP-17)

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, INSTALL CURB AND GUTTER ALONG RIGHT SIDE OF -Y1- (SR 1129, DOWNS RD.) FROM -Y1- STA. 16+63± TO -Y1- STA. 18+97±.

REMOVE LANE CLOSURE AND RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK PERIOD.

INSTALL TEMPORARY PAVEMENT MARKING LINES FROM -Y2- STA. 10+50± TO -Y2- STA. 13+23± IN FINAL PATTERN AS SHOWN ON SHEET PM-4. REMOVE TYPE III BARRICADES AT -Y1- AND RELOCATE TYPE III BARRICADES AT -Y2- STA. 11+50 TO -Y3- STA. 10+79±. (SEE SHEET TCP-18) REMOVE DRUMS AND OPEN LEFT TURN LANE.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9, CLOSE NC 51 WESTBOUND OUTSIDE LANE (RIGHT TURN LANE) BETWEEN -L- STA. 65+50± AND A POINT 500'± IN ADVANCE OF END OF EXISTING BRIDGE. REMOVE EXISTING RIGHT TURN ARROWS AND WORD MESSAGES ("ONLY").

PLACE LEFT EDGE LINE FROM -L- STA. 63+50± TO -L- STA. 68+54± AS SHOWN ON SHEET TCP-18.

STEP 6: AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF -Y3- (SR 3645, DOWNS CIRCLE) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y3- STA. 10+86± TO -Y3- STA. 11+89±.

COMPLETE THE WORK REQUIRED OF PHASE III, STEP 7 THRU STEP 14 IN 60 CONSECUTIVE DAYS. (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 7: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 4 OF 9, SHIFT NC 51 WESTBOUND TRAFFIC INTO THE OUTSIDE LANE. USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, INSTALL TEMPORARY PAVEMENT MARKING AND DEVICES AND SHIFT NC 51 EASTBOUND TRAFFIC INTO TEMPORARY PATTERN FROM -L- STA. 62+00± TO -L- STA. 71+79± AS SHOWN ON SHEET TCP-18.

STEP 9: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, PLACE WATER-FILLED BARRIER ALONG RIGHT EDGE LINE FROM -L- STA. 62+00± TO -L- STA. 67+88±. (SEE SHEET TCP-18)

REMOVE LANE CLOSURE AND RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK PERIOD.

STEP 10: BEHIND WATER-FILLED BARRIER, CONSTRUCT RIGHT SIDE WIDENING OF -L- (NC 51, ROCK HILL - PINEVILLE RD.) INCLUDING 12'(MIN.) OF PROPOSED PAVEMENT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 63+50± TO -L- STA. 66+88±. (SEE SECTION VIEW E-E' ON SHEET TCP-18)

COMPLETE THE WORK REQUIRED OF PHASE III, STEP 11 FROM 8:00PM SATURDAY TO 6:00AM MONDAY. (SEE SPECIAL PROVISIONS AND LIQUIDATED DAMAGES)

STEP 11: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, PLACE ONE-LANE, TWO-WAY TRAFFIC INTO NC 51 WESTBOUND LANE FROM -L- STA. 63+50± TO -L- STA. 68+54±.

REMOVE WATER-FILLED BARRIER FROM ALONG RIGHT EDGE LINE FROM -L- STA. 62+00± TO -L- STA. 67+88±.

CONSTRUCT AN ADDITIONAL 13'(MAX.) OF PROPOSED PAVEMENT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 63+50± TO -L- STA. 66+88±. (SEE SECTION VIEW F-F' ON SHEET TCP-19)

PLACE TEMPORARY PAVEMENT MARKING FROM -L- STA. 60+84± TO -L- STA. 70+79± AS SHOWN ON SHEET TCP-20.

REMOVE LANE CLOSURE, PLACE NC 51 TRAFFIC INTO TEMPORARY PATTERN AS SHOWN ON SHEET TCP-20. COMPLETE PLACEMENT OF TEMPORARY PAVEMENT MARKINGS.

STEP 12: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, PLACE WATER-FILLED BARRIER ALONG LEFT EDGE LINE FROM -L- STA. 62+50± TO -L- STA. 68+38±. (SEE SHEET TCP-20)

STEP 13: BEHIND WATER-FILLED BARRIER, CONSTRUCT LEFT SIDE WIDENING OF -L- (NC 51, ROCK HILL - PINEVILLE RD.) INCLUDING REMAINING PROPOSED PAVEMENT UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA. 63+50± TO -L- STA. 66+88±. (SEE SECTION VIEW G-G' ON SHEET TCP-20)

STEP 14: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, REMOVE WATER-FILLED BARRIER FROM ALONG LEFT EDGE LINE FROM -L- STA. 62+50± TO -L- STA. 68+38±.

REPLACE ALL REMOVED PAVEMENT MARKING LINES LOCATED OFF THE PROJECT LIMIT.

INSTALL TEMPORARY PAVEMENT MARKING FROM -L- STA. 62+00± TO -L- STA. 63+50± AS SHOWN ON SHEET TCP-17.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 (NC 51 WESTBOUND) AND DRUMS (NC 51 EASTBOUND) PLACE NC 51 TRAFFIC INTO THEIR RESPECTIVE INSIDE LANE FROM -L- STA. 55+77± TO -L- STA. 66+88±.

LEGEND	
	REMOVAL OF EXISTING PAVEMENT
	PROPOSED CONSTRUCTION

APPROVED: <i>Michael T. Kizza</i> DATE: 6-18-07		PHASE III, OVERVIEW AND PHASING	
SEAL			
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DWG. BY: B.L.M.	DESIGN BY: G.E.P.		
REVIEWED BY: M.T.R.			

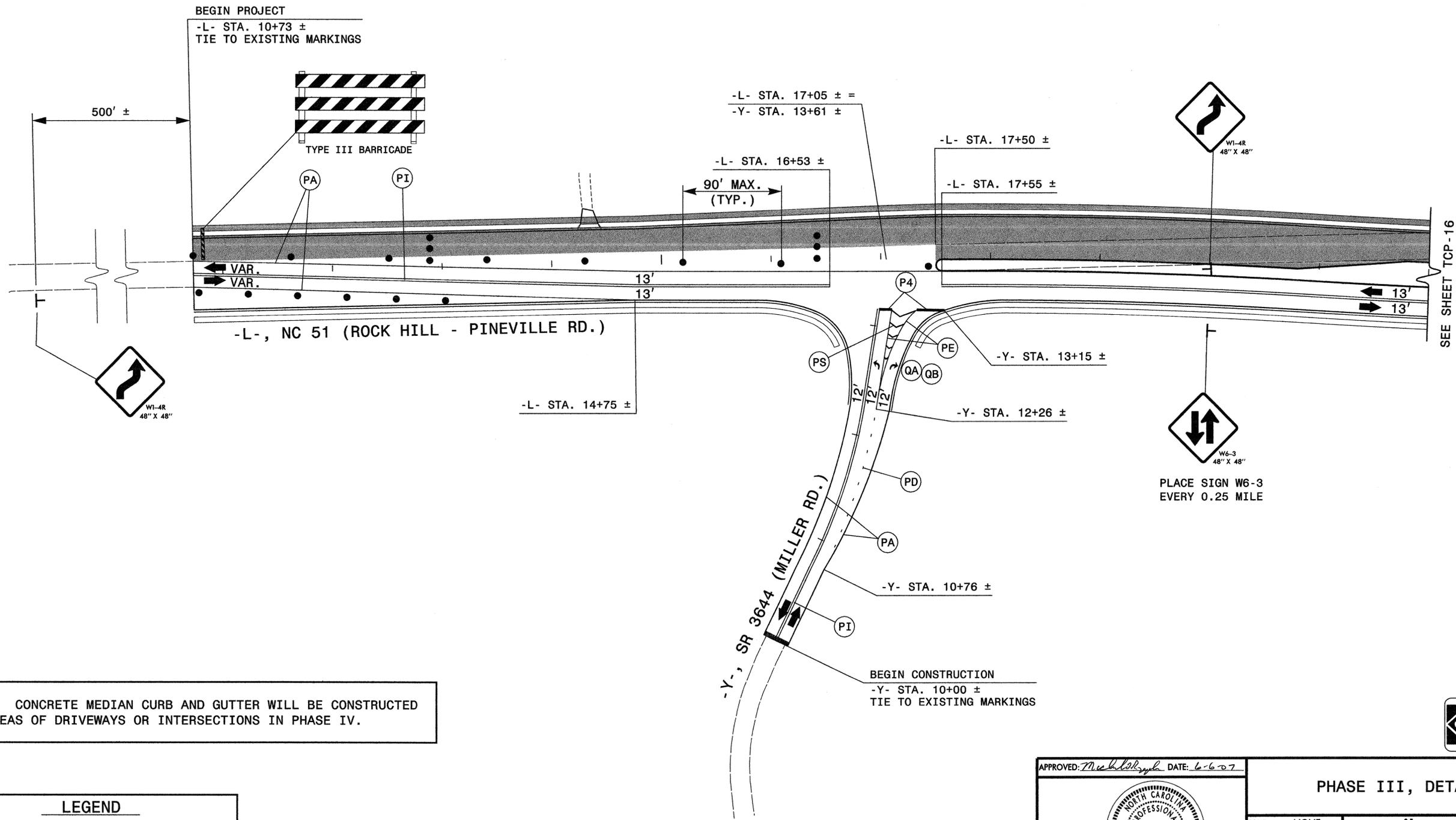
Plans prepared by:
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 For Division of Highways

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NOTE: CONCRETE MEDIAN CURB AND GUTTER WILL BE CONSTRUCTED IN AREAS OF DRIVEWAYS OR INTERSECTIONS IN PHASE IV.

LEGEND	
	PROPOSED CONSTRUCTION

APPROVED: *Michael T. Reppel* DATE: 6-6-07



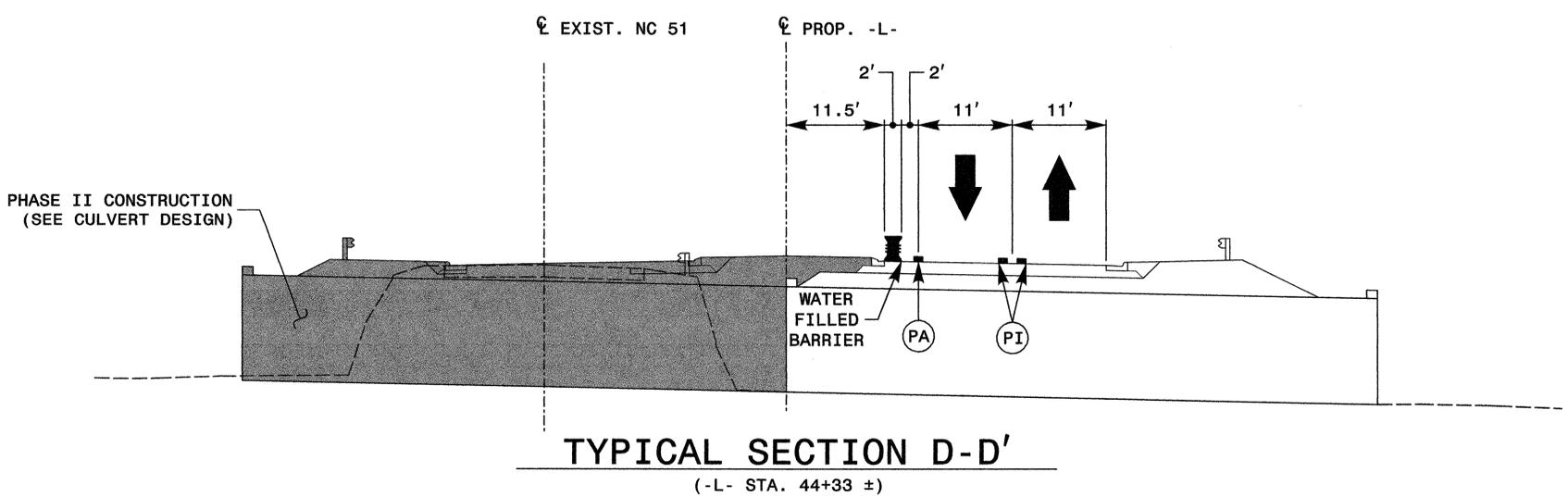
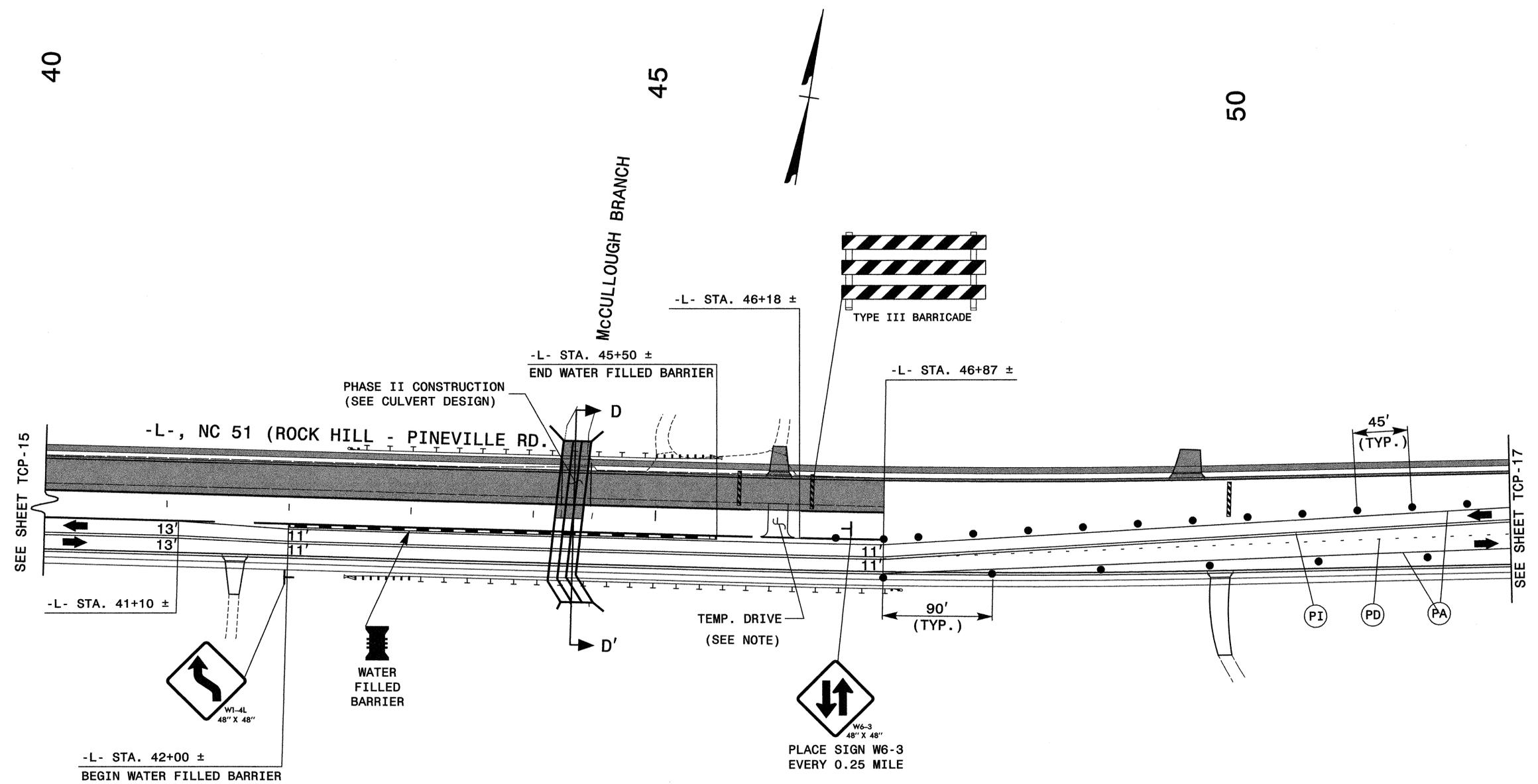
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 DATE: 5-07
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 DESIGN BY: G.E.P.
 REVIEWED BY: M.T.R.



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 For Division of Highways



NOTE: CONCRETE MEDIAN CURB AND GUTTER WILL BE CONSTRUCTED IN AREAS OF DRIVEWAYS OR INTERSECTIONS IN PHASE IV.

LEGEND	
	PROPOSED CONSTRUCTION

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Consulting Engineers
1011 SCHAUH DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

APPROVED: *M. T. R.* DATE: 6-6-07



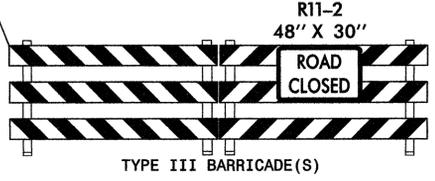
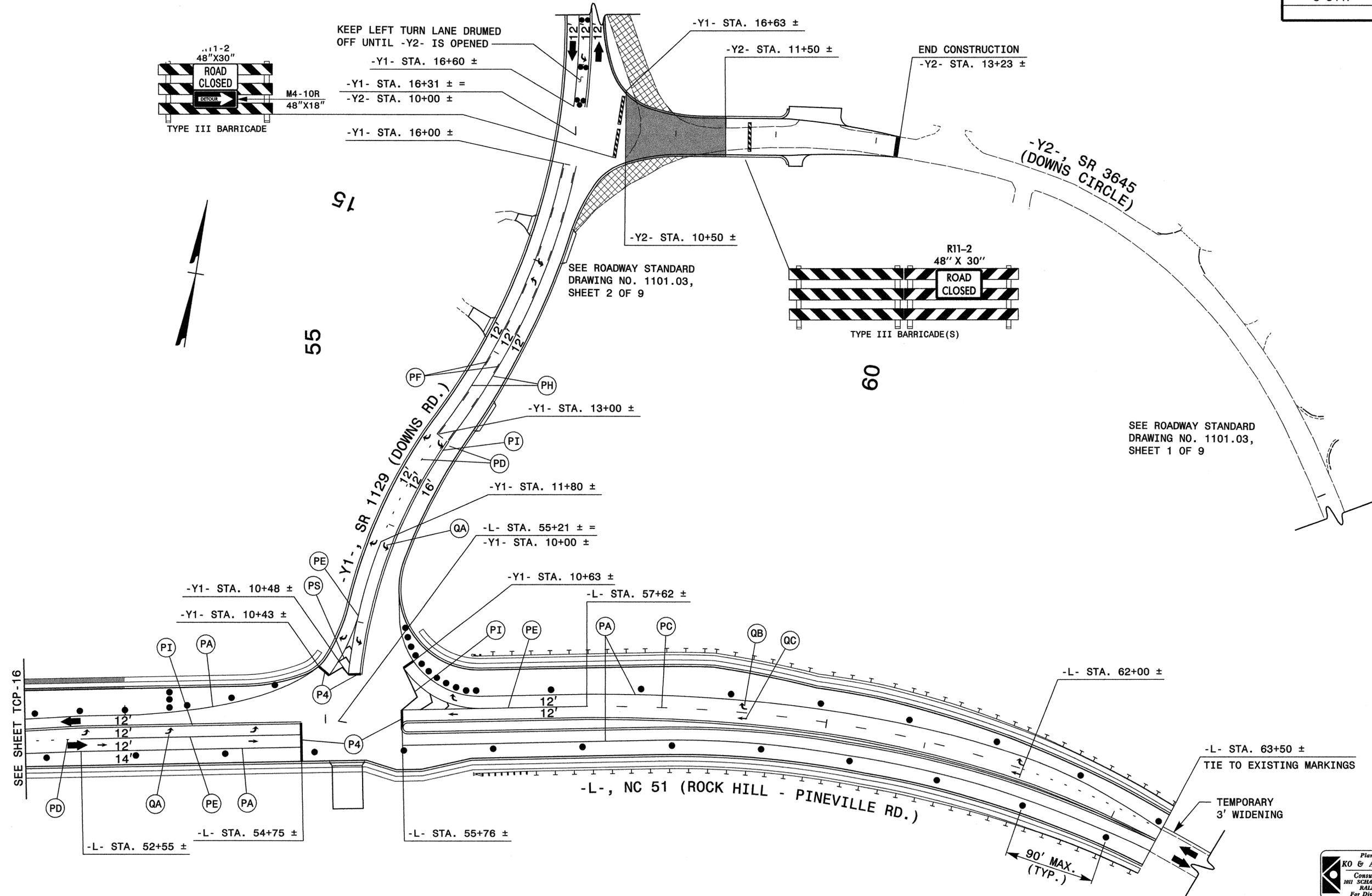
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DESIGN BY: G.E.P.
REVIEWED BY: M.T.R.



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SEE SHEET TCP-16

SEE ROADWAY STANDARD
DRAWING NO. 1101.03,
SHEET 2 OF 9

SEE ROADWAY STANDARD
DRAWING NO. 1101.03,
SHEET 1 OF 9

LEGEND	
	REMOVAL OF EXISTING PAVEMENT
	PROPOSED CONSTRUCTION

APPROVED: *Michael T. Rzepa* DATE: 6-6-07



PHASE III, DETAIL 3

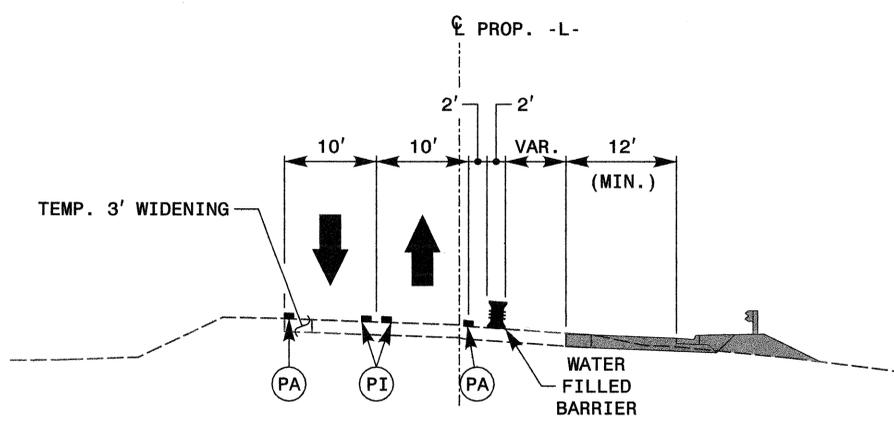
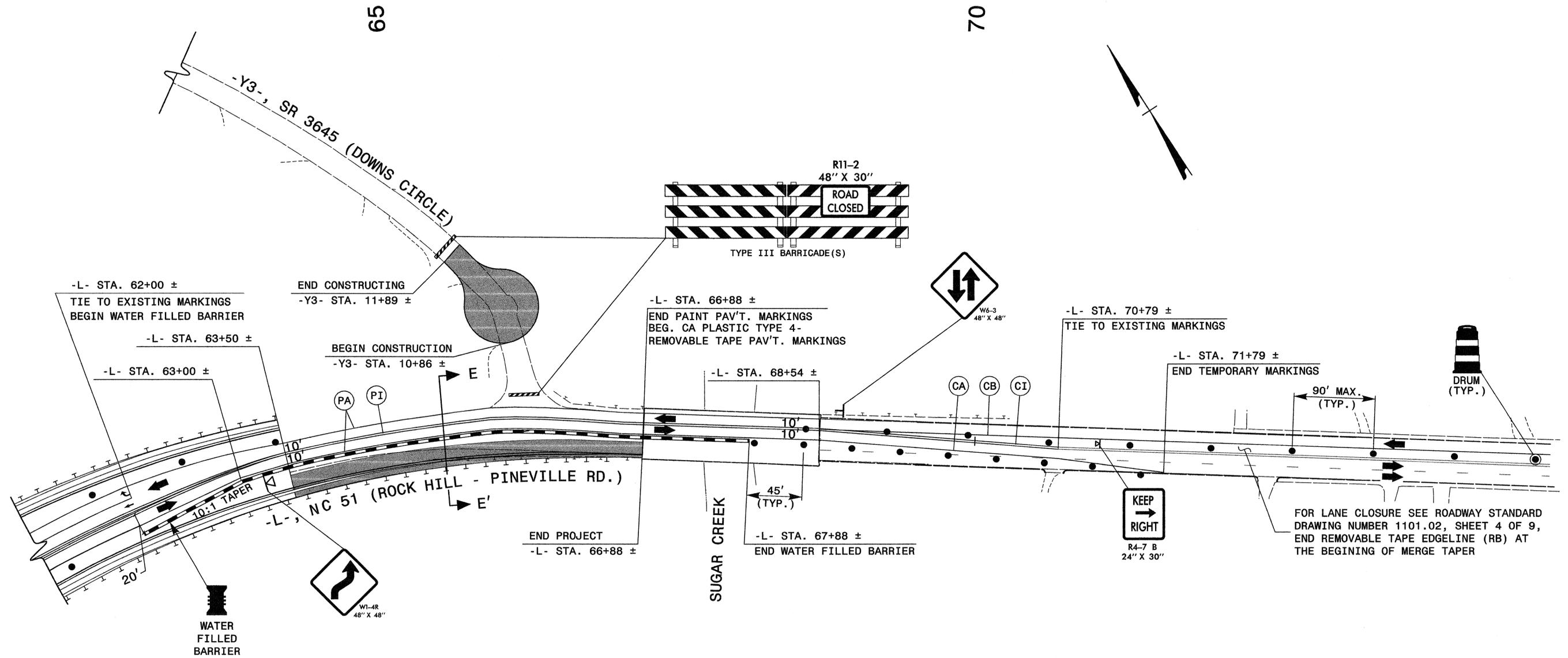
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DESIGN BY: G.E.P.
REVIEWED BY: M.T.R.



REVISIONS	

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Consulting Engineers
101 SCHAUB DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways



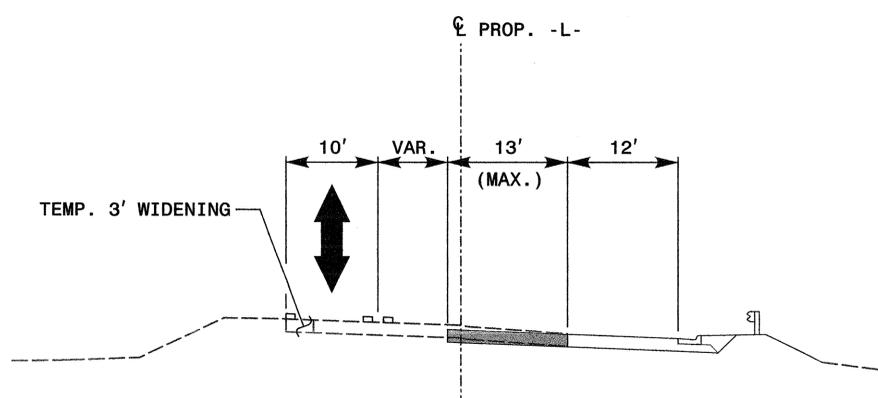
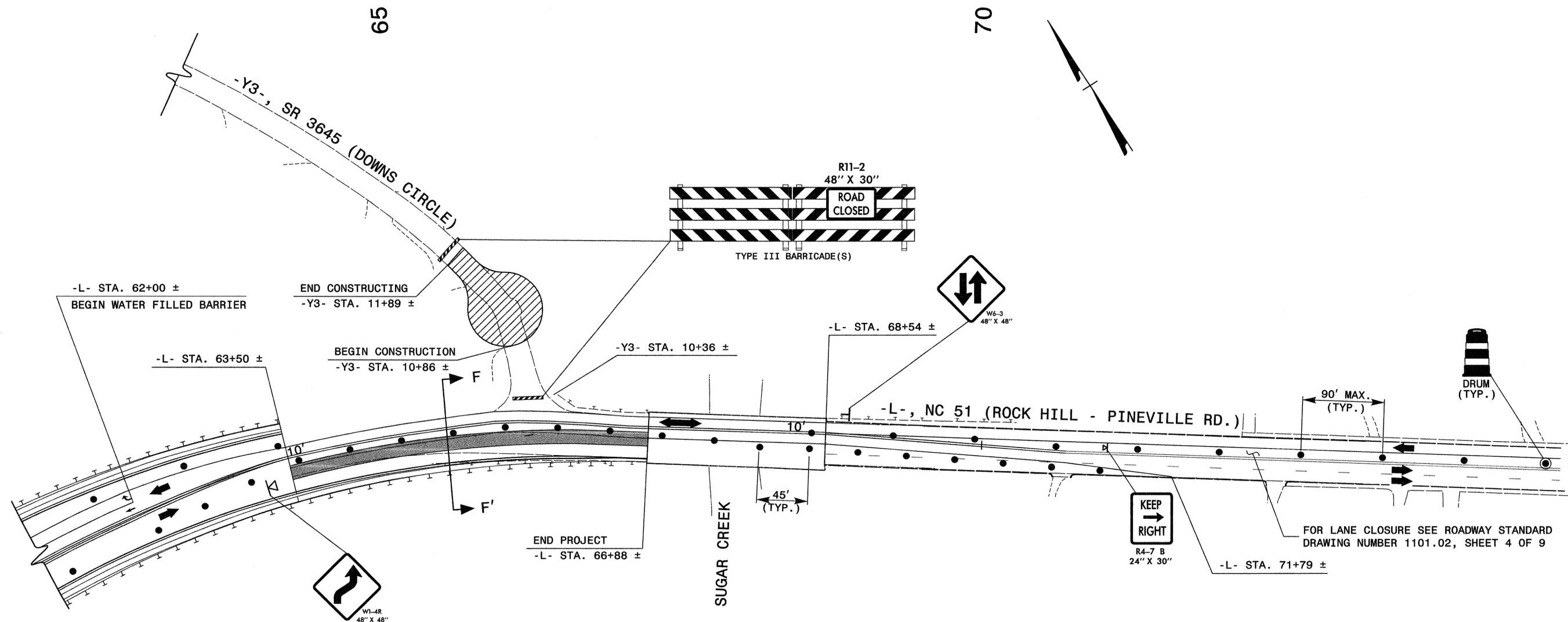
TYPICAL SECTION E-E'
(-L- STA. 65+00 ±)

LEGEND	
	PROPOSED CONSTRUCTION

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APPROVED: <i>Michael T. Rzepeka</i> DATE: 6-6-07	PHASE III, DETAIL 4	
	SCALE: NONE	
	DATE: 5-07	
	DWG. BY: B.L.M.	
	DESIGN BY: G.E.P.	
REVIEWED BY: M.T.R.	REVISIONS	

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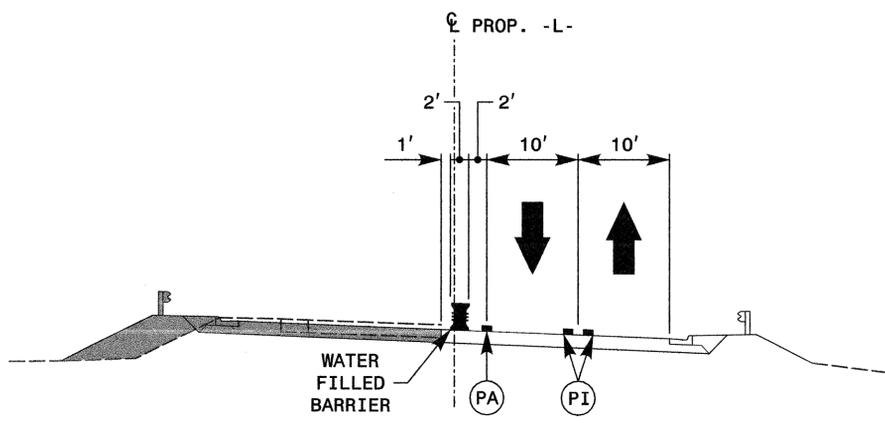
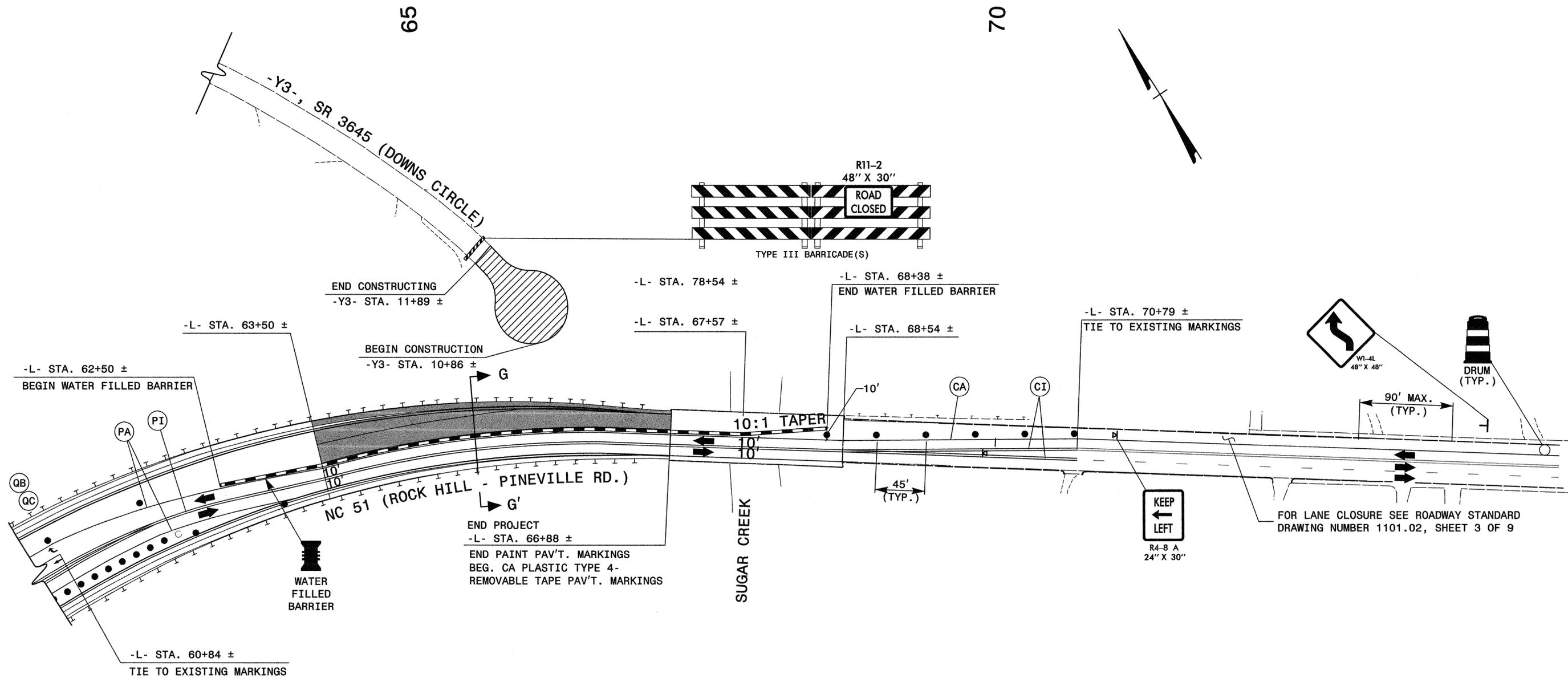
TYPICAL SECTION F-F'
(-L- STA. 65+00 ±)

LEGEND	
	ONGOING CONSTRUCTION
	PROPOSED CONSTRUCTION

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For Division of Highways

APPROVED: <i>Michael T. Kelly</i> DATE: 6-6-07	PHASE III, DETAIL 5	
	SCALE: NONE	
	DATE: 5-07	
	DWG. BY: B.L.M.	
	DESIGN BY: G.E.P.	
REVIEWED BY: M.T.R.	REVISIONS	

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LEGEND	
	ONGOING CONSTRUCTION
	PROPOSED CONSTRUCTION

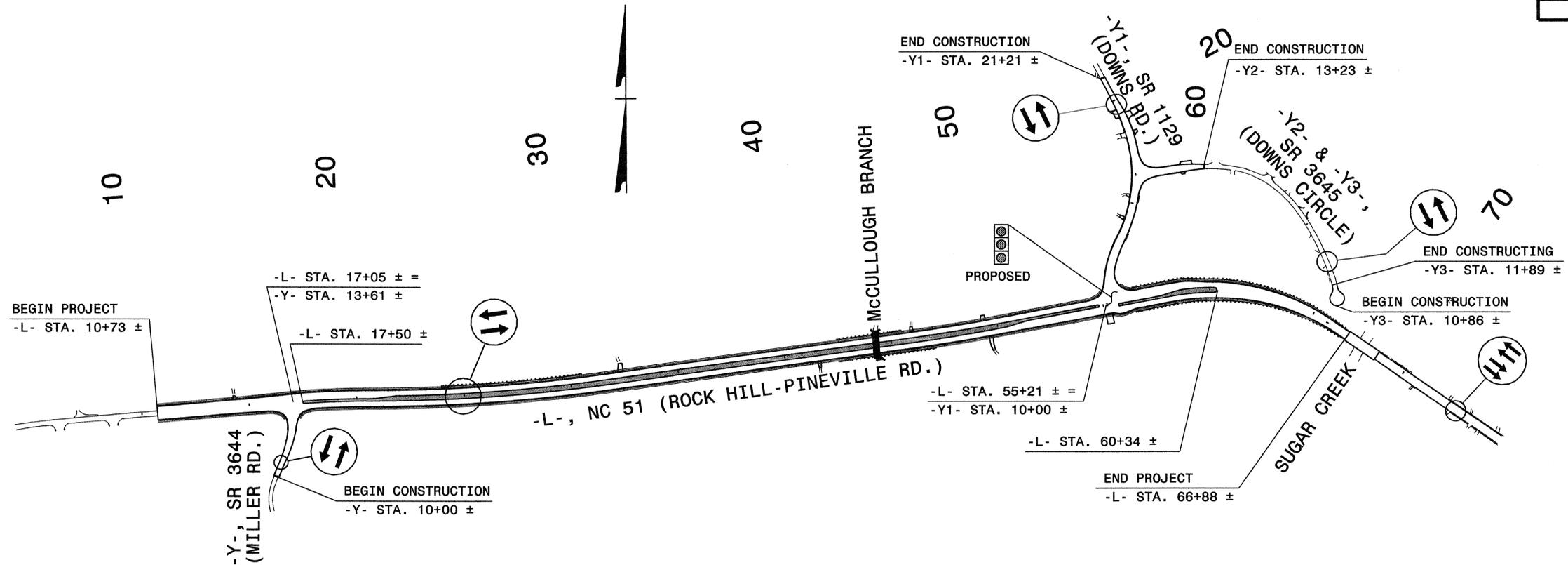
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 Consulting Engineers
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 For Division of Highways

APPROVED: *M. J. [Signature]* DATE: 6-6-07



PHASE III, DETAIL 6									
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REVISIONS									
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DATE: 5-07									
DWG. BY: B.L.M.									
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PHASE IV

- STEP 1: COMPLETE CONSTRUCTION OF LEFT SIDE OF -L- LINE (NC 51, ROCK HILL - PINEVILLE RD.) FROM -L- STA. 17+50± TO -L- STA. 46+87± INCLUDING PHASES II AND III OF PROPOSED CULVERT.
- STEP 2: MODIFY SIGNAL HEAD PLACEMENT TO ACCOMMODATE PHASE IV INITIAL TRAFFIC PATTERN.
- STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9 (EASTBOUND) AND ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 4 OF 9 (WESTBOUND), IN ONE CONTINUOUS OPERATION, INSTALL INTERIM PAVEMENT MARKING LINES AND SYMBOLS TO SHIFT NC 51, ROCK HILL - PINEVILLE RD. TRAFFIC INTO THE TEMPORARY ALIGNMENT FROM -L- STA. 10+73± TO -L- STA. 66+88±. (SEE SHEETS TCP-22 AND TCP-23)
- STEP 4: COMPLETE CONSTRUCTION OF -L- LINE (NC 51, ROCK HILL - PINEVILLE RD.) MEDIAN CURB AND GUTTER, DRAINAGE AND MEDIAN FROM -L- STA. 17+50± TO -L- STA. 60+34±.

PLACE THE FINAL LAYER OF SURFACE COURSE ON PROPOSED WESTBOUND AND EASTBOUND -L- LINE (NC 51, ROCK HILL - PINEVILLE RD.) MEDIAN LANE(S) FROM -L- STA. 10+73± TO -L- STA. 66+88±. USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9 WHEN PAVING INTERFERES WITH TRAFFIC FLOW.
- STEP 5: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9 (EASTBOUND) AND ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 (WESTBOUND), IN ONE CONTINUOUS OPERATION, SHIFT EASTBOUND AND WESTBOUND NC 51, ROCK HILL - PINEVILLE RD. TRAFFIC FROM THE OUTSIDE TO INSIDE LANE(S) FROM -L- STA. 10+73± TO -L- STA. 66+88±.
- STEP 6: WITH NC 51, ROCK HILL - PINEVILLE RD., OUTSIDE LANE(S) CLOSED TO TRAFFIC, PLACE THE FINAL LAYER OF SURFACE ON PROPOSED EASTBOUND AND WESTBOUND -L- (NC 51, ROCK HILL - PINEVILLE RD.) OUTSIDE LANE(S) INCLUDING FINAL PAVEMENT MARKING LINES AND SYMBOLS AND MARKERS FROM -L- STA. 10+73± TO -L- STA. 66+88±. (SEE SHEETS PM-2 THRU PM-4)

REMOVE LANE CLOSURES AND MODIFY TRAFFIC SIGNAL HEADS INTO FINAL PATTERN.
- STEP 7: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 9, PLACE THE FINAL LAYER OF SURFACE ON ALL -Y- LINES INCLUDING FINAL PAVEMENT MARKING LINES AND SYMBOLS AND MARKERS. (SEE SHEETS PM-2 THRU PM-4)

REMOVE LANE CLOSURE AT END OF EACH WORKDAY.
- STEP 8: REMOVE ALL TRAFFIC CONTROL DEVICES.

LEGEND

PROPOSED CONSTRUCTION

Plans prepared by:
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RALEIGH, N.C. 27606
For Division of Highways

APPROVED: <i>M. T. R.</i> DATE: 6-6-07		PHASE IV, OVERVIEW AND PHASING	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 5-07		
	DWG. BY: B.L.M.		
	DESIGN BY: G.E.P.		
	REVIEWED BY: M.T.R.		CADD FILE

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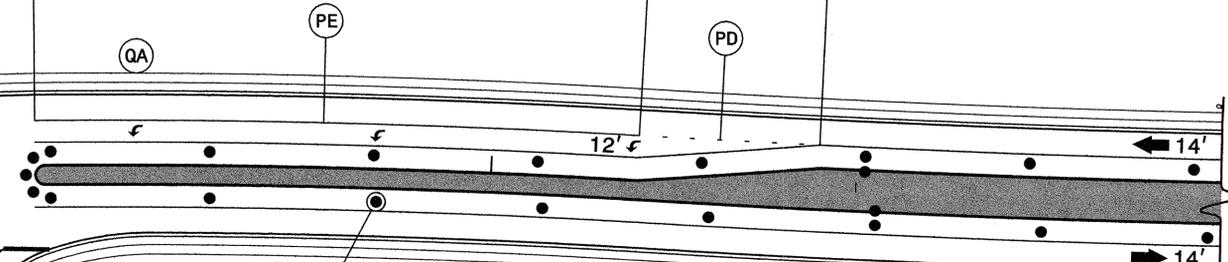
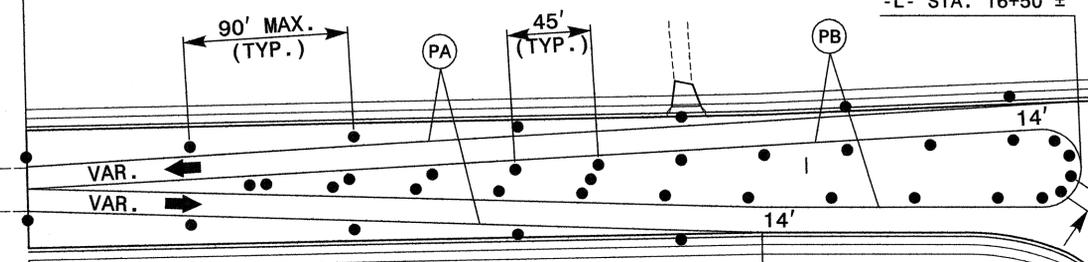
BEGIN PROJECT
-L- STA. 10+73 ±
TIE TO EXISTING MARKINGS

-L- STA. 17+05 ± =
-Y- STA. 13+61 ±

-L- STA. 17+50 ±

-L- STA. 20+80 ±

-L- STA. 21+80 ±



-L-, NC 51 (ROCK HILL - PINEVILLE RD.)

-L- STA. 14+75 ±

-Y-, SR 3644 (MILLER RD.)

BEGIN CONSTRUCTION
-Y- STA. 10+00 ±



NOTE: PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500' CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

SEE SHEET TCP-23

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For Division of Highways

APPROVED: *M. Kelly* DATE: 6-6-07



PHASE IV, DETAIL 1

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DESIGN BY: G.E.P.
REVIEWED BY: M.T.R.



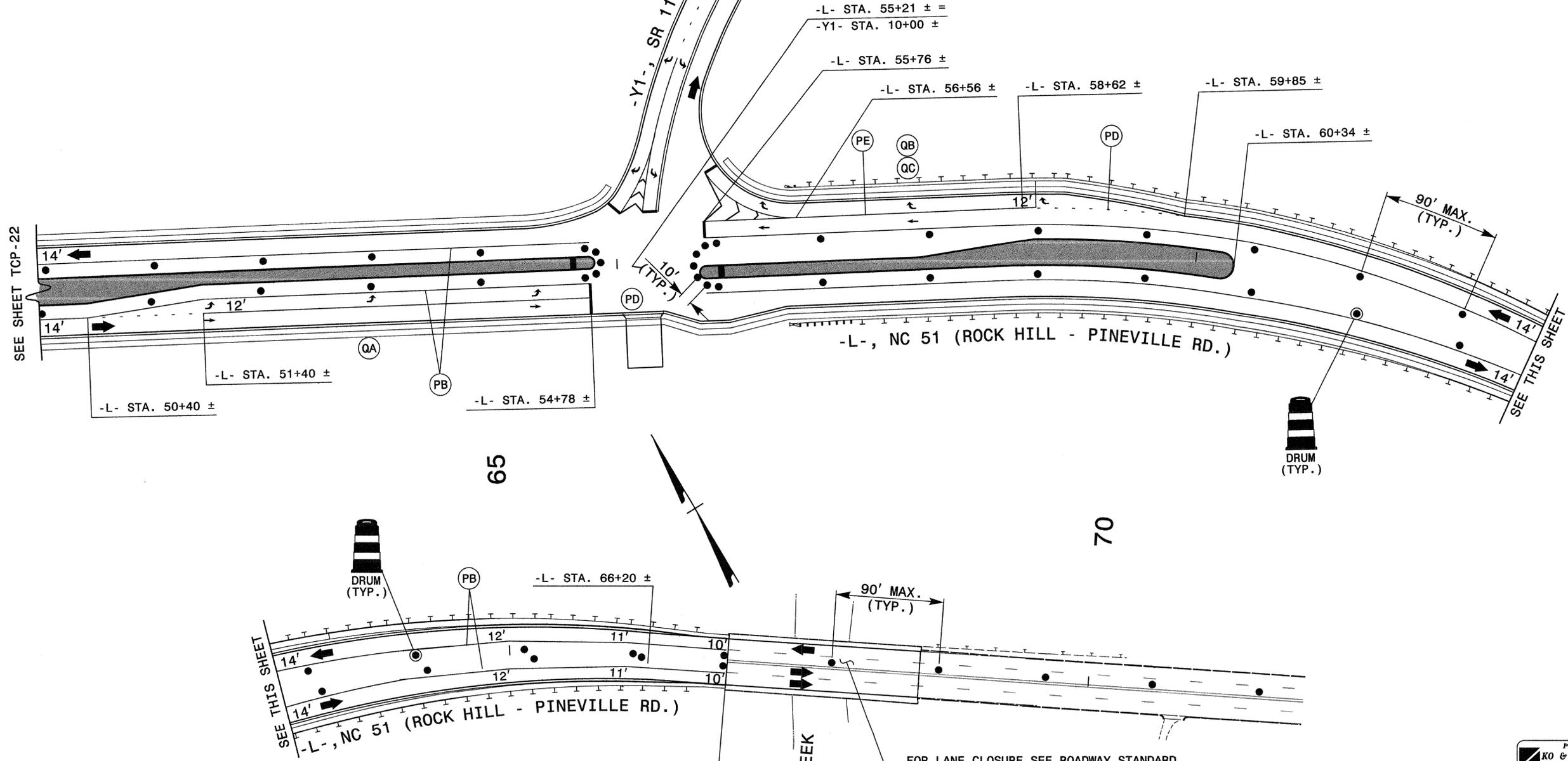
REVISIONS	

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SEE SHEET TCP-22



SEE THIS SHEET

SEE THIS SHEET

END PROJECT
-L- STA. 66+88 ±
TIE TO EXISTING MARKINGS

FOR LANE CLOSURE SEE ROADWAY STANDARD
DRAWING NUMBER 1101.02, SHEET 4 OF 9

SUGAR CREEK

APPROVED: *Michael T. Rzepka* DATE: 6-6-07



PHASE IV, DETAIL 2

SCALE: NONE
DATE: 5-07
DWG. BY: B.L.M.
DESIGN BY: G.E.P.
REVIEWED BY: M.T.R.

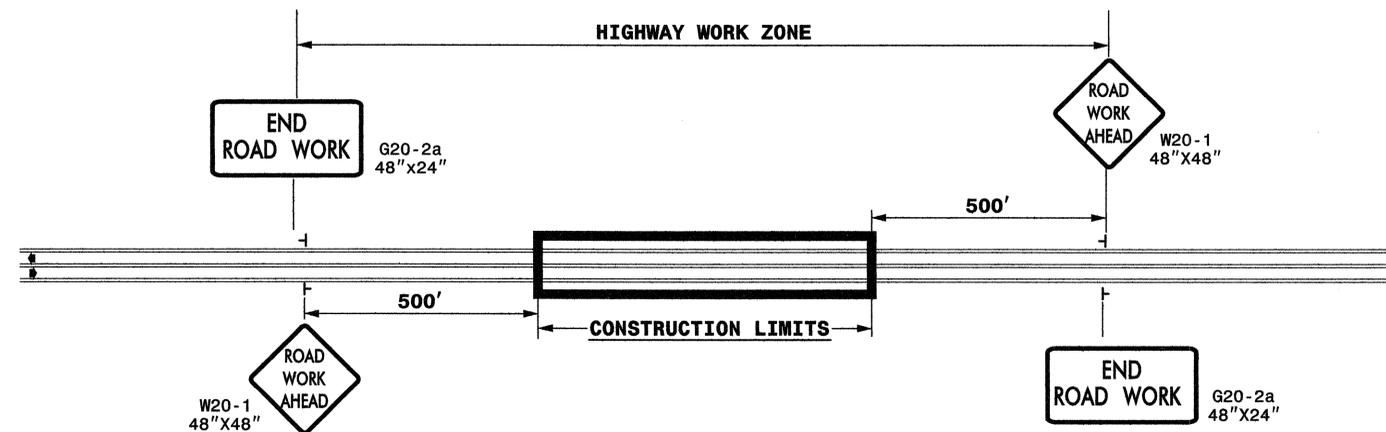


REVISIONS	

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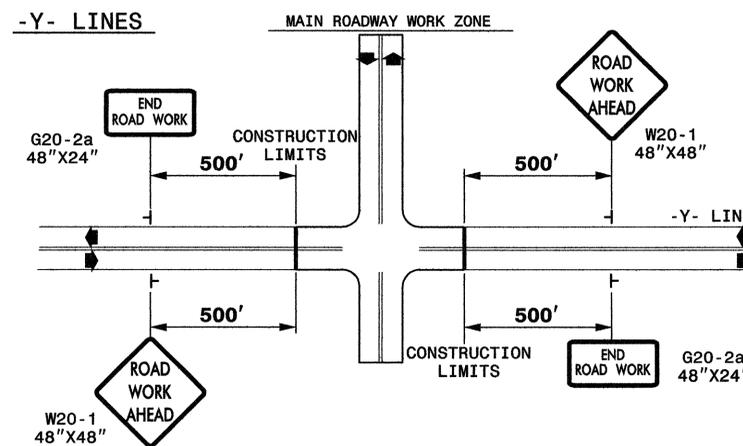
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TWO-WAY UNDIVIDED ** (L-LINES)



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

- ┆ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: <i>Michael T. Wierpa</i> DATE: 6-6-07	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS									
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