


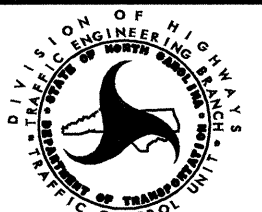
FINAL PAVEMENT MARKING SCHEDULE

		FINAL PAVEMENT MARKINGS			
TB	YELLOW EDGELINE	THERMOPLASTIC (4", 90 MILS)	2050	LF	
				TOTAL	2050 LF
TC	10 FT. WHITE SKIP	THERMOPLASTIC (4", 120 MILS)	625	LF	
TD	2 FT. WHITE MINISKIP		230	LF	
TE	WHITE SOLID LANE LINE		1800	LF	
TF	10 FT. YELLOW SKIP		400	LF	
TH	YELLOW SINGLE CENTER		4000	LF	
TI	YELLOW DOUBLE CENTER		3800	LF	
				TOTAL	10855 LF
TL	WHITE SOLID LANE LINE	THERMOPLASTIC (6", 120 MILS)	100	LF	
				TOTAL	100 LF
TV	WHITE CROSSWALK LINE	THERMOPLASTIC (8", 120 MILS)	710	LF	
				TOTAL	710 LF
T2	WHITE STOPBAR	THERMOPLASTIC (24", 120 MILS)	325	LF	
				TOTAL	325 LF
		THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)			
UA	LEFT TURN ARROW		17	EA	
UB	RIGHT TURN ARROW		10	EA	
UC	STRAIGHT ARROW		11	EA	
				TOTAL	38 EA
		MARKERS			
		PERMANENT RAISED PAVEMENT MARKERS			
MA	YELLOW & YELLOW		175	EA	
MB	CRYSTAL & RED		215	EA	
				TOTAL	390 EA

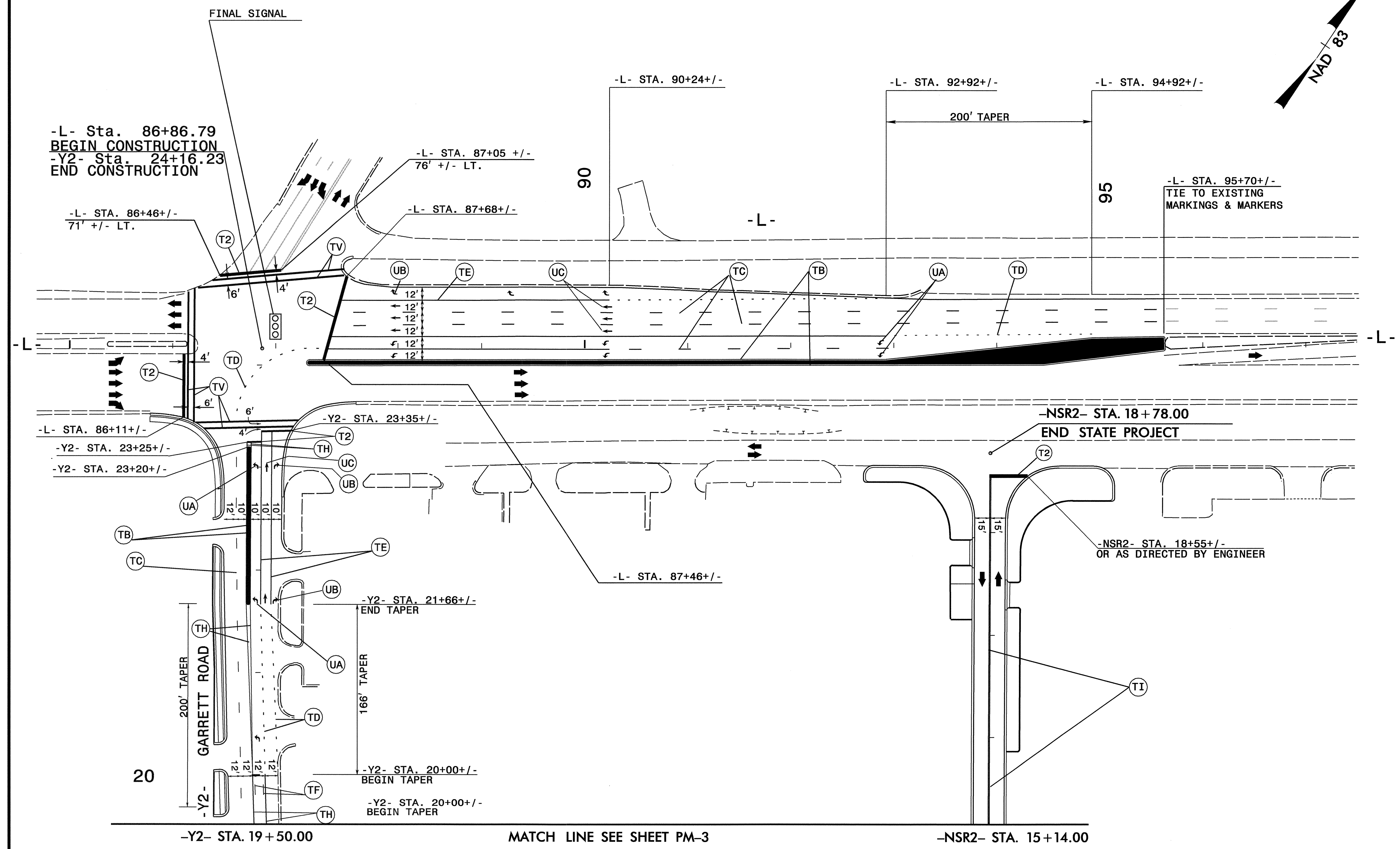
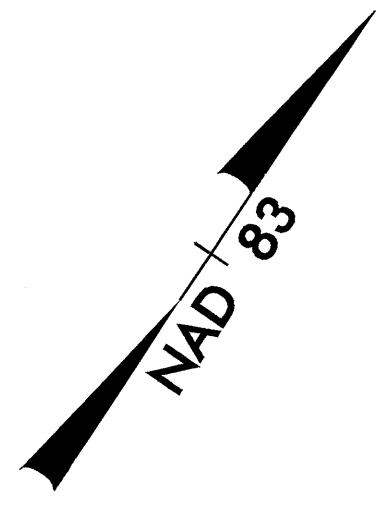
28-FEB-2007 11:49
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 msteelman AT WZTC22462




 REVISED FEBRUARY 2007 TO ADD AN ADDITIONAL QUANTITY OF WHITE CROSSWALK LINE PER A SIGNAL PLAN MODIFICATION.

APPROVED: _____	DATE: _____	FINAL PAVEMENT MARKING SCHEDULE					
NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT, BUT ONLY AS TO THE REVISION. THIS PLAN ORIGINALLY ISSUED AND SEALED BY MITCHELL HENDEE, P.E., #027791, ON 2/17/04. THIS DOCUMENT ONLY CERTIFIED AS TO THE REVISIONS.		SCALE: NONE DATE: 2/6/04 DWG. BY: ABR DESIGN BY: MH REVIEWED BY: MH	REVISIONS <table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>				
			CADD FILE				

NOTE: SHADED PAVEMENT MARKINGS = EXISTING



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 msteelman AT WZTC224162


 REVISED FEBRUARY 2007 TO ADD ADDITIONAL
 WHITE CROSSWALK LINE AND UPDATE STOP BAR
 LOCATIONS PER A SIGNAL PLAN MODIFICATION.
 Joseph 28, 2007

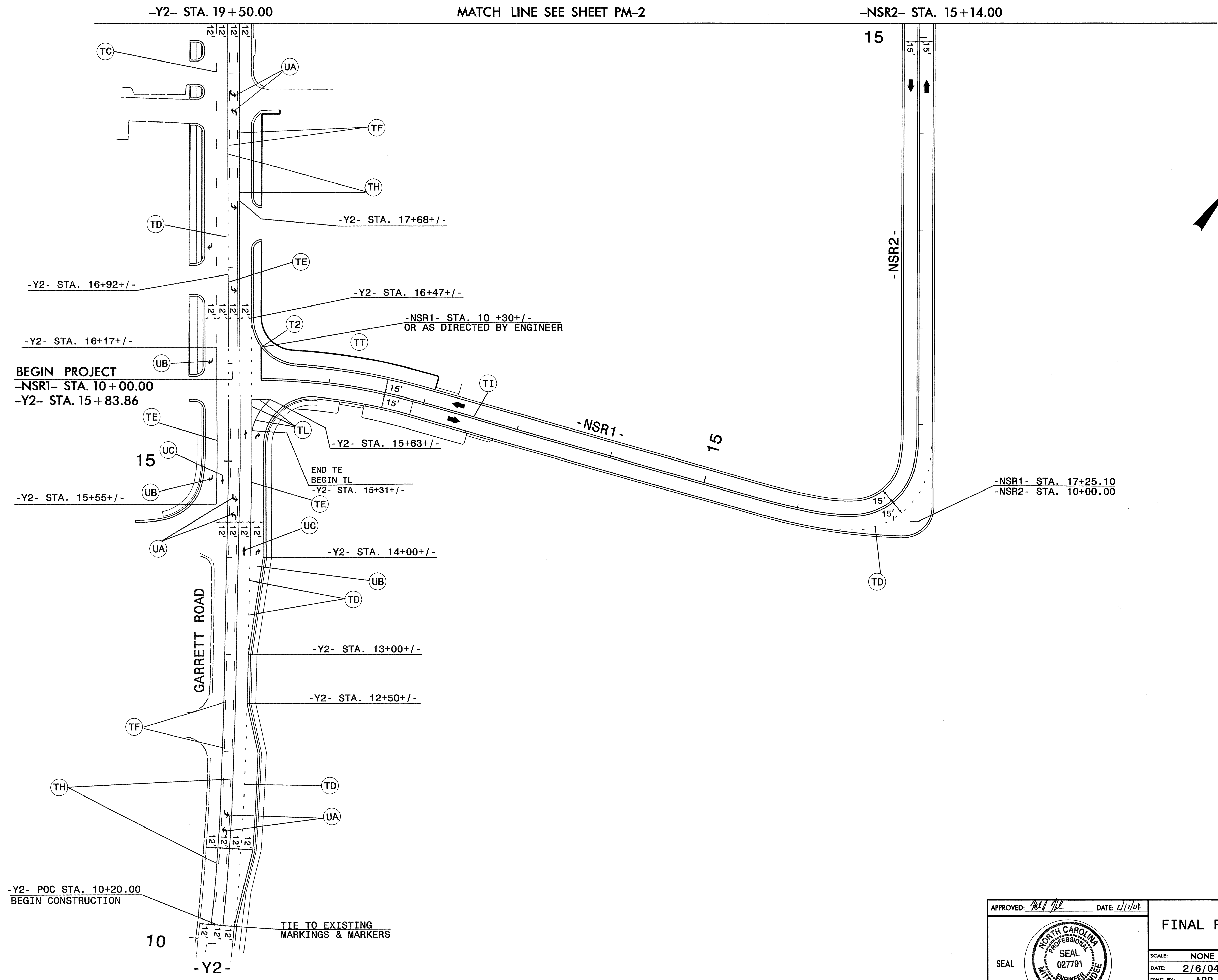
APPROVED: _____ DATE: _____
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 ISSUED AND SEALED BY
 MITCHELL HENDEE, P.E.,
 #027791, ON 2/17/04.
 THIS DOCUMENT ONLY CERTIFIED
 AS TO THE REVISIONS.

FINAL PAVEMENT MARKING PLAN		REVISIONS	
SCALE: NONE	DATE: 2/6/04		
DWG. BY: ABR	DESIGN BY: MH		
REVIEWED BY: MH			



CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
U-4009	PM-3



BEGIN PROJECT
 -NSR1- STA. 10+00.00
 -Y2- STA. 15+83.86

-Y2- POC STA. 10+20.00
 BEGIN CONSTRUCTION

TIE TO EXISTING
 MARKINGS & MARKERS

17 FEB 2004 12:56 PM
 K:\TCP\U4009\171092274
 SJ PDD AT 171092274

APPROVED: <i>[Signature]</i>	DATE: 2/17/04	FINAL PAVEMENT MARKING PLAN	
SEAL	SCALE: NONE		REVISIONS
	DATE: 2/6/04		
	DWG. BY: ABR		
	DESIGN BY: MH		
	REVIEWED BY: MH		CADD FILE

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-4012	TCP-2

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 UNDESIRABLE 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:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 15-501	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 P.M. AND SATURDAY AND SUNDAY 10:00 A.M. TO 9:00 P.M.
I-40 RAMP 'C'	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 P.M. AND SATURDAY AND SUNDAY 10:00 A.M. TO 9:00 P.M.

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

ROAD NAME

US 15-501
I-40 RAMP 'C'

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- FOR UNC-CHAPEL HILL AND DUKE GRADUATIONS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY OF THE WEEK OF THE UNC-CHAPEL HILL AND DUKE GRADUATIONS AND 9:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF THE UNC-CHAPEL HILL AND DUKE GRADUATIONS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 15-501	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 P.M.	15 MINUTES FOR TRAFFIC SHIFTS AND TIE-INS
	SATURDAY AND SUNDAY 10:00 A.M. TO 9:00 P.M.	

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

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 WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

- G) 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.
- H) 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.

- I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- J) DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE ON US 15-501 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON US 15-501.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- L) 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.

- M) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- O) 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.
- P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC BARRIER

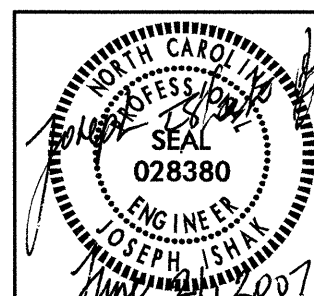
- Q) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC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

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

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY 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 TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.



REVISED FEBRUARY 2007 TO MODIFY THE PROJECT TIME RESTRICTIONS AND UPDATE THE GENERAL NOTES TO THE NEW NOTES.

REVISED JUNE 2007 TO ADD A PROJECT TIME RESTRICTIONS FOR A 15 MINUTE ROAD CLOSURE.

- R) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

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 RADIUS, 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 ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF 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
US 15-501	THERMOPLASTIC	PERMANENT RAISED
I-40 RAMP 'C'	THERMOPLASTIC	PERMANENT RAISED

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

ROAD NAME	MARKING	MARKER
US 15-501	PAINT	TEMPORARY RAISED
I-40 RAMP 'C'	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.

- AA) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

TEMPORARY / FINAL SIGNALS

- BB) NOTIFY THE ENGINEER TWO (2) MONTHS BEFORE A TRAFFIC SIGNAL INSTALLATION BY OTHERS IS REQUIRED.

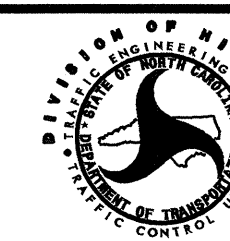
- CC) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

MISCELLANEOUS

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

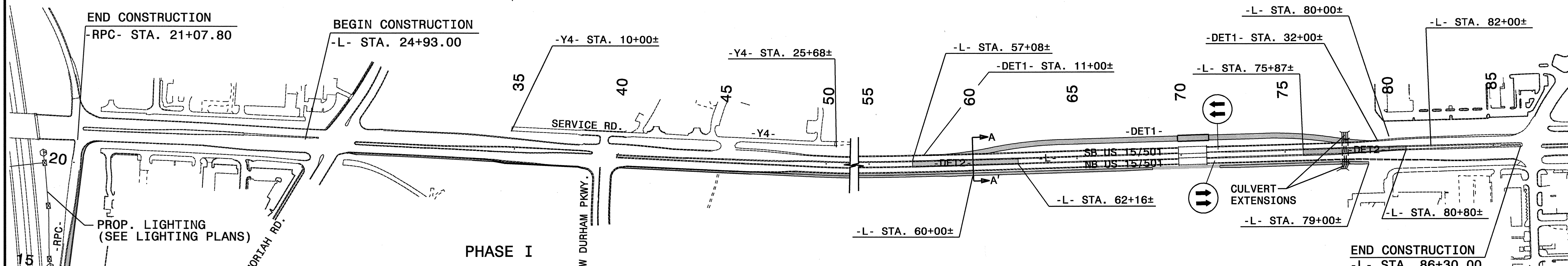
Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
101 SCHAUB DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

APPROVED:	DATE:	PROJECT NOTES	
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		DATE: 1-05	
		DESIGN BY: MTR	
		REVIEWED BY: MSA	



CADD FILE

PHASE I OVERVIEW

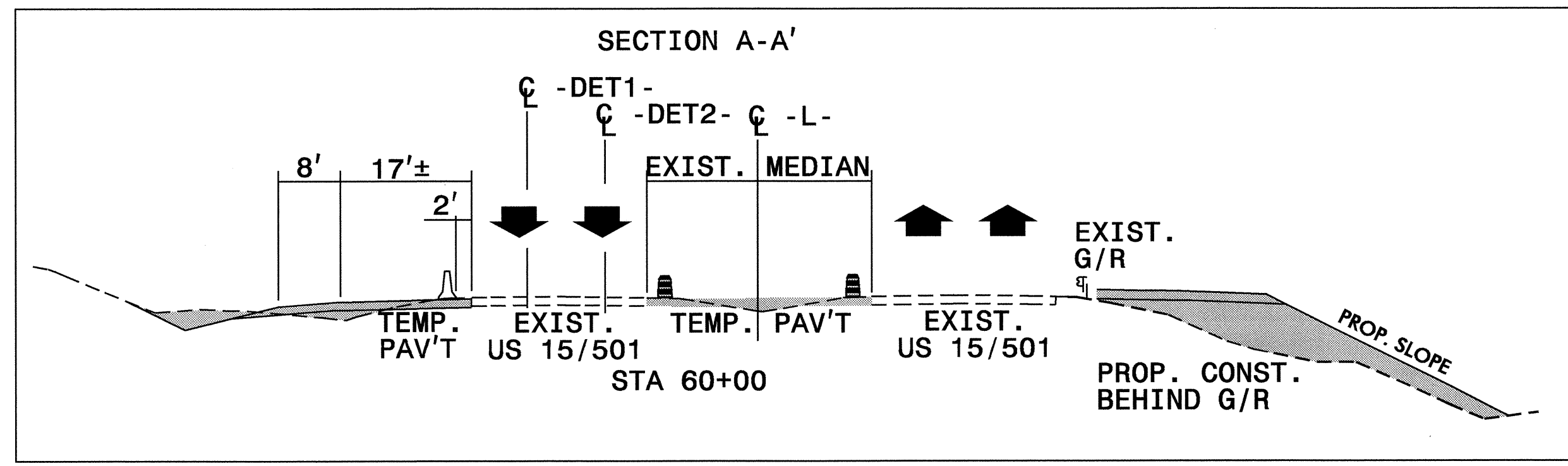
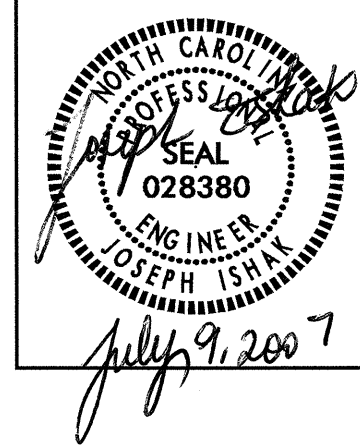


- STEP 1**
INSTALL ALL ADVANCE WORK ZONE WARNING SIGNS (SEE SHEET TCP-30).
- STEP 2**
USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), BEGIN INSTALLATION OF PROPOSED DRAINAGE (SEE ROADWAY PLANS).
BEHIND EXISTING GUARDRAIL, BEGIN CONSTRUCTION OF LEFT & RIGHT SIDE EXTENSIONS OF EXISTING CULVERT AT -L- STA 78+00± (SEE SHEET TCP-6 AND STRUCTURE PLANS).
USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), BEGIN MILLING & RESURFACING OF NB & SB US 15-501 FROM -L- STA 24+93± TO STA 34+00± (SEE ROADWAY PLANS).
USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), BEGIN PROPOSED WEDGING/RESURFACING OF EXISTING US 15-501:
- NB -L- STA 34+00± TO STA 60+00±
 - SB -L- STA 34+00± TO STA 62+00±
 - NB -L- STA 79+00± TO STA 86+30±
 - SB -L- STA 77+00± TO STA 86+30±
- USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), BEGIN CONSTRUCTION OF THE FOLLOWING UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEETS TCP-5 THRU 7):
- DET2- FROM -L- STA 57+08± TO STA 62+16± (PAVE EXISTING MEDIAN)
 - DET2- FROM -L- STA 75+87± TO STA 80+80± (PAVE EXISTING MEDIAN)
- USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), PLACE PCB ALONG NB & SB US 15-501 EXISTING SHOULDERS (SEE SHEETS TCP-4 THRU 6).
- USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 7 OF 9), PERFORM THE FOLLOWING ON RAMP 'C' (SEE SHEETS TCP-8 AND PM-3):
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS
 - SHIFT TRAFFIC TO TEMPORARY PATTERN
 - PLACE PCB ALONG RAMP 'C'
 - CONSTRUCT RIGHT SIDE WIDENING OF RAMP 'C' FROM -RPC- STA 11+00± TO STA 21+08±
 - REMOVE PCB ALONG RAMP 'C'
 - PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS
 - SHIFT TRAFFIC TO PROPOSED PATTERN ON RAMP 'C'
- USING ROADWAY STANDARD DRAWINGS 1101.02 (SHEETS 3 & 7 OF 9) AND/OR 1101.04, BEGIN INSTALLATION OF PROPOSED LIGHTING AT I-40/US 15-501 INTERCHANGE (SEE LIGHTING PLANS).
- BEHIND DRUMS AND USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), BEGIN WIDENING OF EXISTING OUTSIDE SHOULDER OF NB -L- FROM MT. MORIAH RD. TO SW DURHAM PKWY.
- STEP 3**
BEHIND PCB AND EXISTING GUARDRAIL, BEGIN PROPOSED OUTSIDE WIDENING OF NB US 15-501 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM SW DURHAM PKWY. TO -L- STA 79+00± (UP TO OUTER EDGE OF EXISTING PAVED SHOULDER) (SEE SHEETS TCP-4 THRU 6).
- BEHIND PCB AND EXISTING GUARDRAIL, CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEETS TCP-5 THRU 7):
- DET1- STA 10+00± TO STA 32+00± (INCLUDING TEMPORARY BRIDGE)
- COMPLETE THE FOLLOWING:**
- LEFT SIDE EXTENSION OF EXISTING CULVERT AT -L- STA 78+00±
 - DET2- FROM -L- STA 57+08± TO STA 62+16± (PAVE EXISTING MEDIAN)
 - DET2- FROM -L- STA 75+87± TO STA 80+80± (PAVE EXISTING MEDIAN)

- STEP 4**
USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 & 7 OF 9), AND/OR ROADWAY STANDARD DRAWING 1101.04, COMPLETE INSTALLATION OF PROPOSED LIGHTING AT I-40/US15-501 INTERCHANGE.

REVISED FEBRUARY 2007 TO UPDATE THE ROADWAY STANDARDS REFERENCED IN THE PHASING TO THE 2006 ROADWAY STANDARDS.

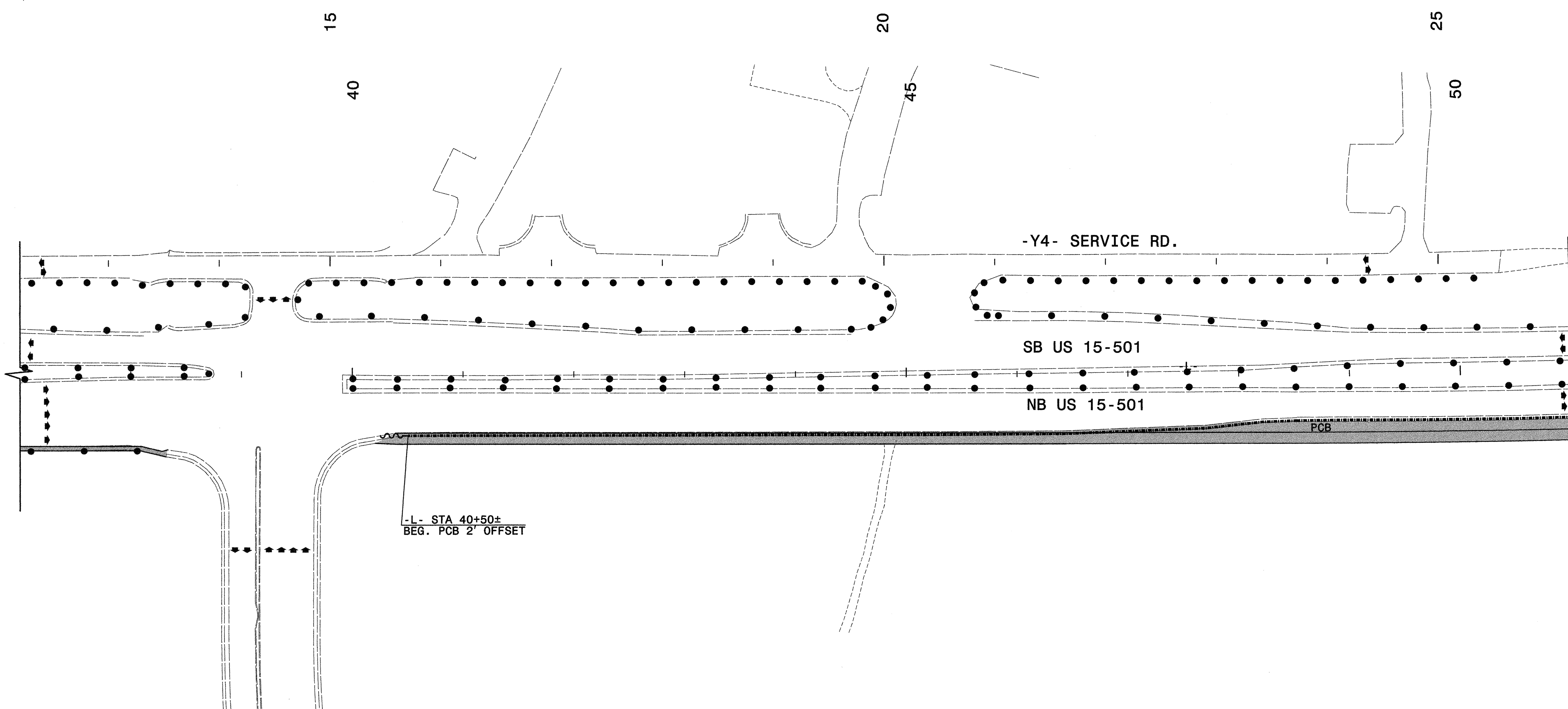
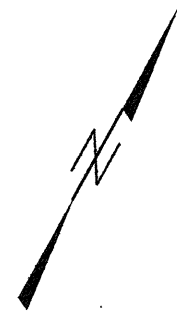
REVISED JULY 2007 TO PLACE ALL OF RAMP 'C' WORK IN PHASE I, STEP 2, TO PROVIDE ADDITIONAL TRAFFIC CAPACITY ON RAMP 'C' EARLIER DURING CONSTRUCTION. CHANGED ROAD NAME IN TYPICAL SECTION FROM I-85 TO US 15/501.



Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
101 SCHAUB DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

APPROVED: _____	DATE: _____	PHASE I OVERVIEW & PHASING	
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DATE: 1-05			
DWG. BY: MTR			
DESIGN BY: MTR			
REVIEWED BY: MSA			

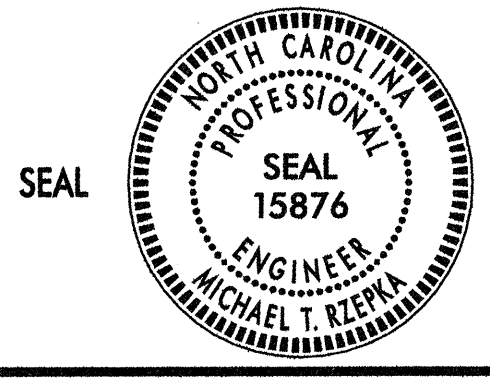
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MATCHLINE STA. 51+00
SEE SHEET TCP-5

Plans prepared by:
KO & ASSOCIATES, P.C.
 Consulting Engineers
 1011 SCHAUB DR. SUITE #202
 RALEIGH, N.C. 27606
 For Division of Highways

APPROVED: *mehls* DATE: 1-17-05



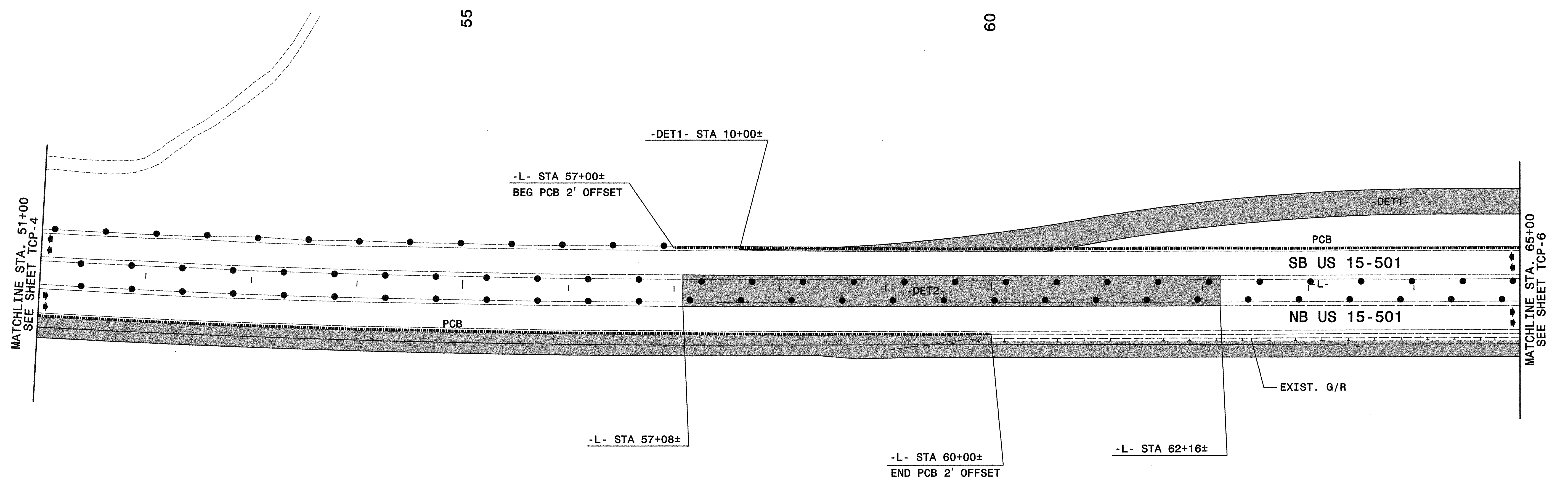
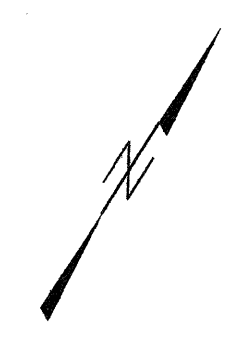
PHASE I DETAIL

SCALE: NONE
 DATE: 1-05
 DWG. BY: MTR
 DESIGN BY: MTR
 REVIEWED BY: MSA



REVISIONS	

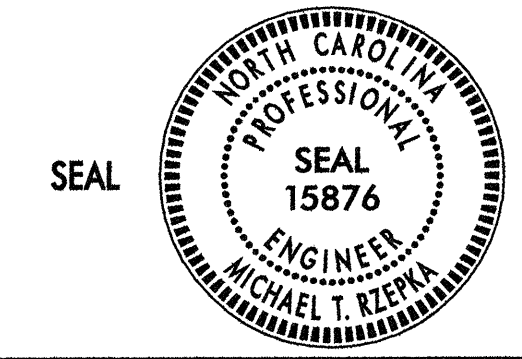
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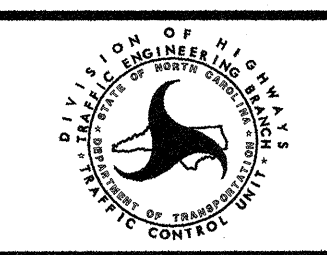
Plans prepared by:
KO & ASSOCIATES, P.C.
 Consulting Engineers
 1011 SCHAUB DR. SUITE #202
 RALEIGH, N.C. 27606
 For Division of Highways

APPROVED: *Michael T. Rzepka* DATE: 1-17-05

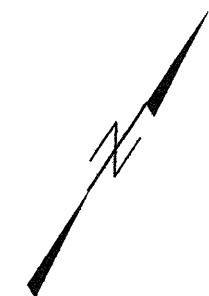


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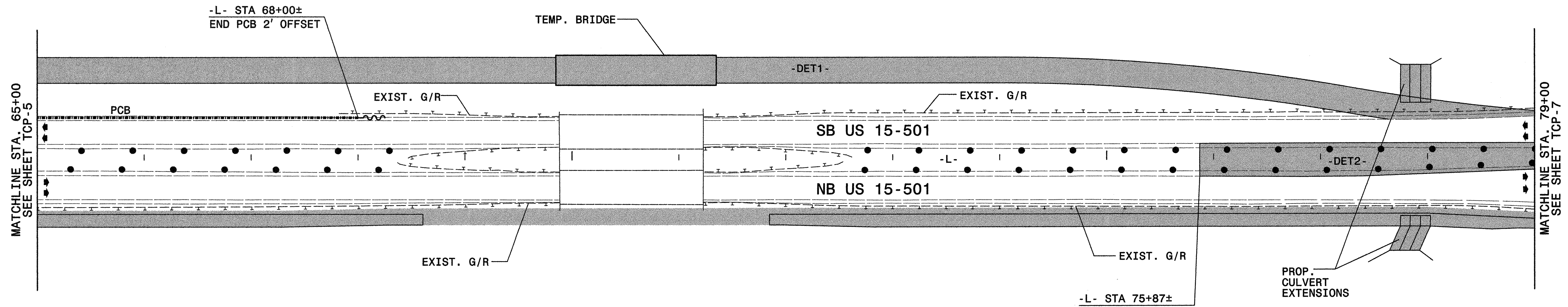


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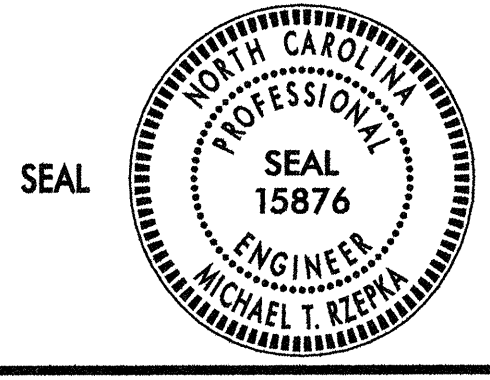
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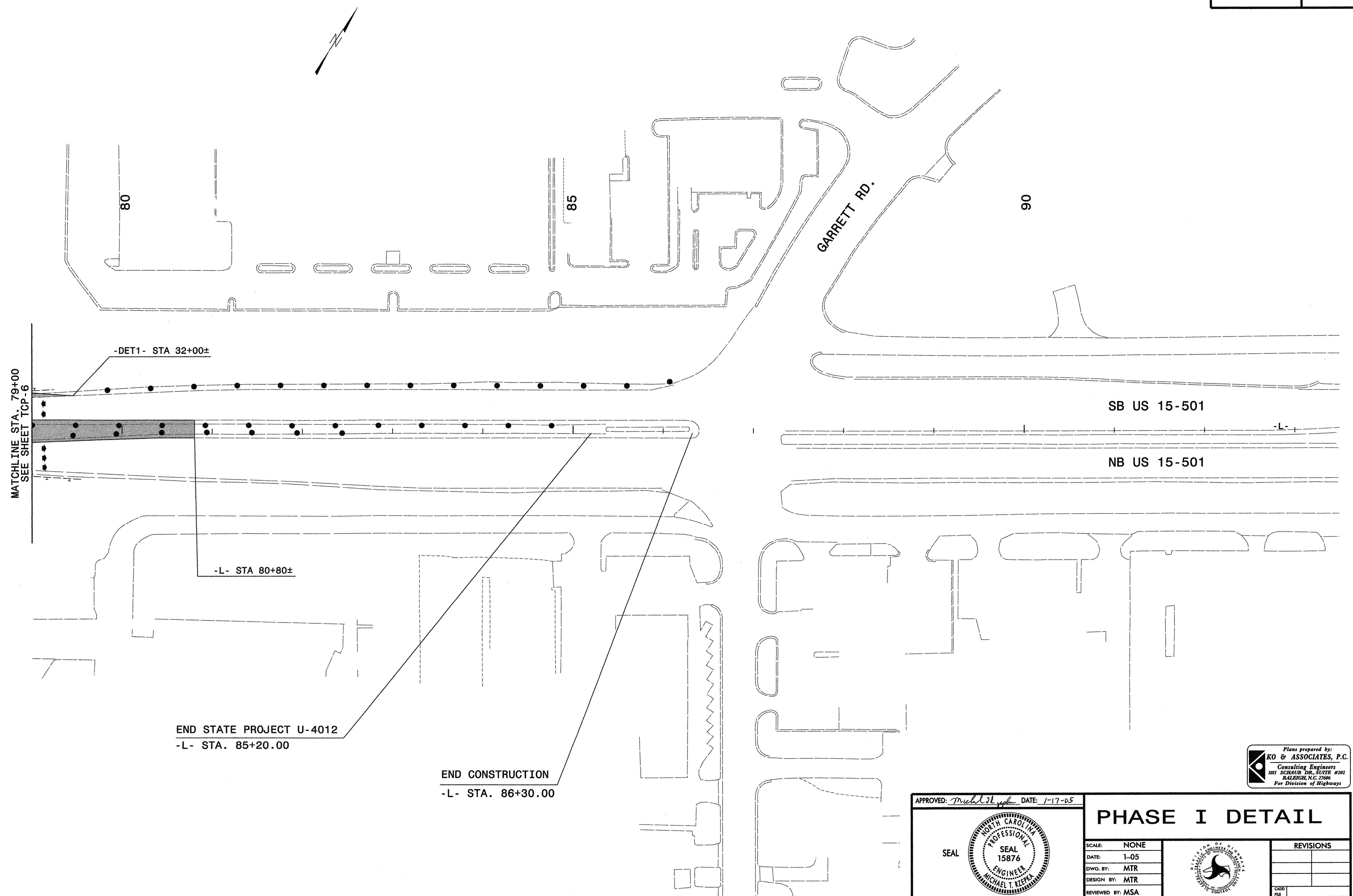
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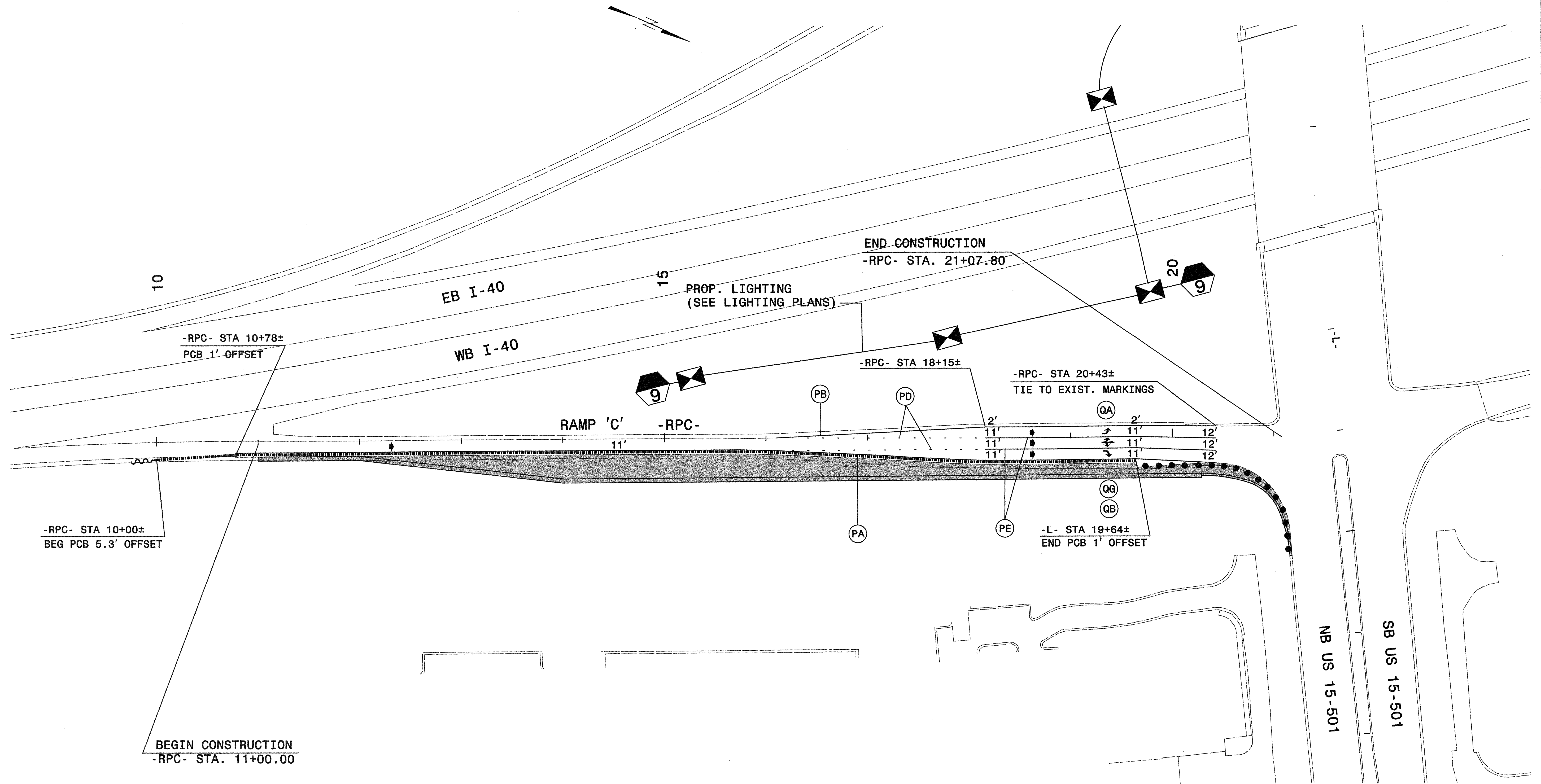


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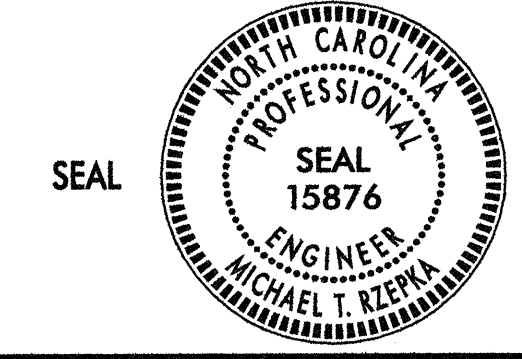
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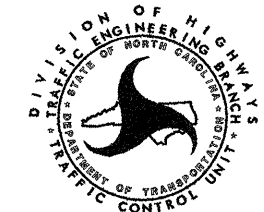


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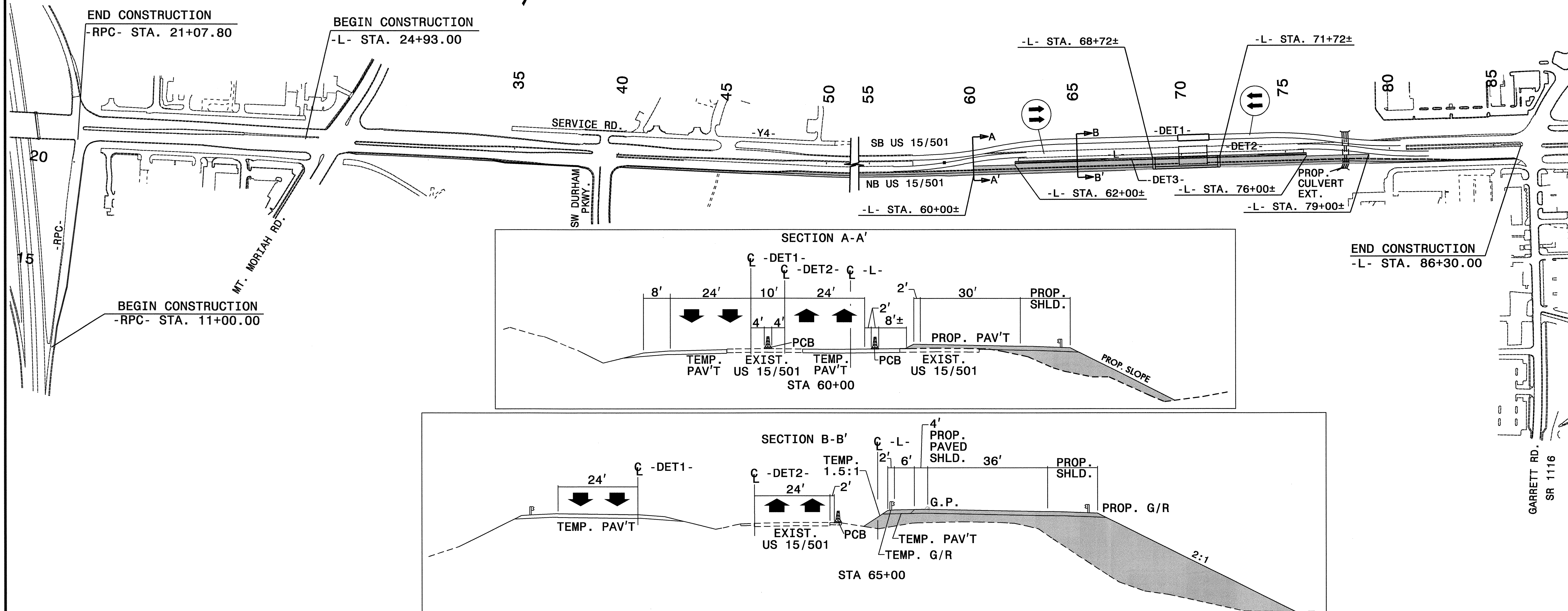
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APPROVED: *Michael T. Rzepka* DATE: 1-17-05



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PHASE II OVERVIEW



PHASE II

STEP 1

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), PERFORM THE FOLLOWING (SEE SHEETS TCP-11 THRU 13):

- REMOVE PCB ALONG EXISTING OUTSIDE SB US 15-501 FROM -L- STA 57+00± TO STA 61+50±.
- PLACE FINAL LAYER OF SURFACE COURSE AND TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -DET1-.
- SHIFT SB US 15-501 TRAFFIC TO -DET1-.

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), PERFORM THE FOLLOWING (SEE SHEETS TCP-9 THRU 13):

- PLACE/RESET PCB AT THE FOLLOWING LOCATIONS:
ALONG -DET2- MEDIAN LANE FROM -L- STA 55+00± TO -DET2- STA 18+42±
ALONG THE MEDIAN BETWEEN -DET1-/-DET2- FROM -DET1- STA 28+40± TO -DET2- STA 35+45±
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON NB US 15-501 AND -DET2- AND SHIFT NB TRAFFIC TO THE EXISTING MEDIAN SHOULDER OF NB US 15-501 AND TO -DET2-

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), PLACE/RESET PCB ALONG THE OUTSIDE LANE OF NB US 15-501 AT THE FOLLOWING LOCATIONS (SEE SHEETS TCP-9 THRU 13):

- L- STA 46+45± TO -DET2- STA 22+90±
- DET2- STA 26+40± TO -DET2- STA 35+82±

STEP 2

BEHIND PCB AND EXISTING GUARDRAIL, CONSTRUCT PROPOSED NB US 15-501 STRUCTURE FROM -L- STA 68+72± TO STA 71+72± (SEE SHEET TCP-12).

BEHIND PCB AND EXISTING GUARDRAIL, CONSTRUCT PROPOSED NB US 15-501 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS (SEE SHEETS TCP-9 THRU 13):

- FROM SW DURHAM PKWY. TO -L- STA 60+00± (WIDENING)
- L- STA 60+00± TO STA 62+00± (PARTIAL SECTION)
- L- STA 62+00± TO STA 68+72± (FULL SECTION)
- L- STA 71+72± TO STA 76+00± (FULL SECTION)
- L- STA 76+00± TO STA 79+00± (PARTIAL SECTION)
- L- STA 79+00± TO STA 86+30± (WIDENING)

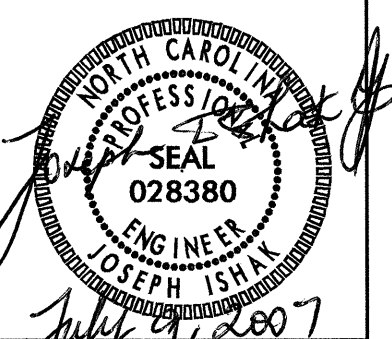
BEHIND PCB AND EXISTING GUARDRAIL, CONSTRUCT TEMPORARY WIDENING FOR -DET3- FROM -L- STA 62+00± TO STA 76+00± (SEE SHEETS TCP-11 & 12).

BEHIND PCB PLACE ANCHORED PCB FROM -L- STA 58+50± TO -L- STA 79+00± (FOR PHASE III TRAFFIC SHIFT) (SEE SHEETS TCP-16 & 17 FOR PCB LOCATIONS).

COMPLETE WIDENING OF EXISTING OUTSIDE SHOULDER OF NB -L- FROM MT. MORIAH RD. TO SW DURHAM PKWY.

REVISED FEBRUARY 2007 TO UPDATE THE ROADWAY STANDARDS REFERENCED IN THE PHASING TO THE 2006 ROADWAY STANDARDS.

REVISED JULY 2007 TO CHANGE THE ROAD NAME IN TYPICAL SECTIONS FROM I-85 TO US 15/501

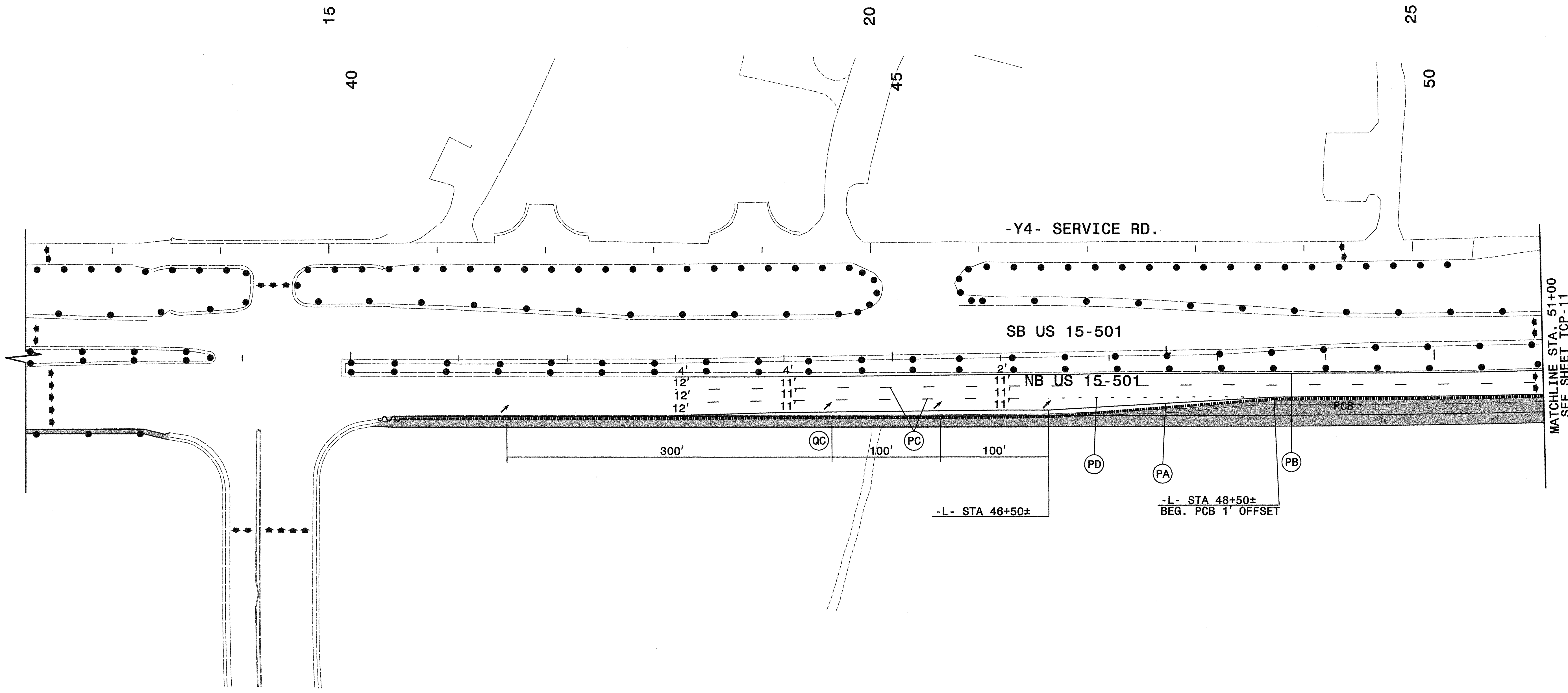
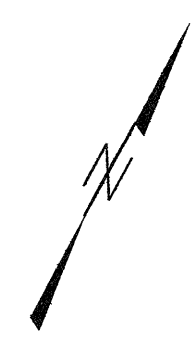


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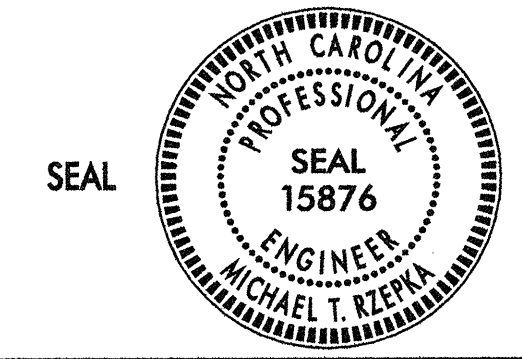
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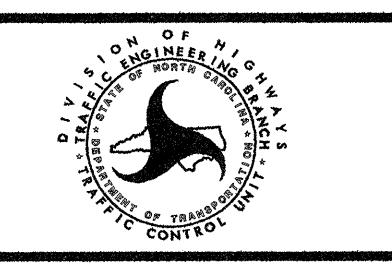
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 For Division of Highways

APPROVED: *Michael T. Rzepka* DATE: 1-19-05



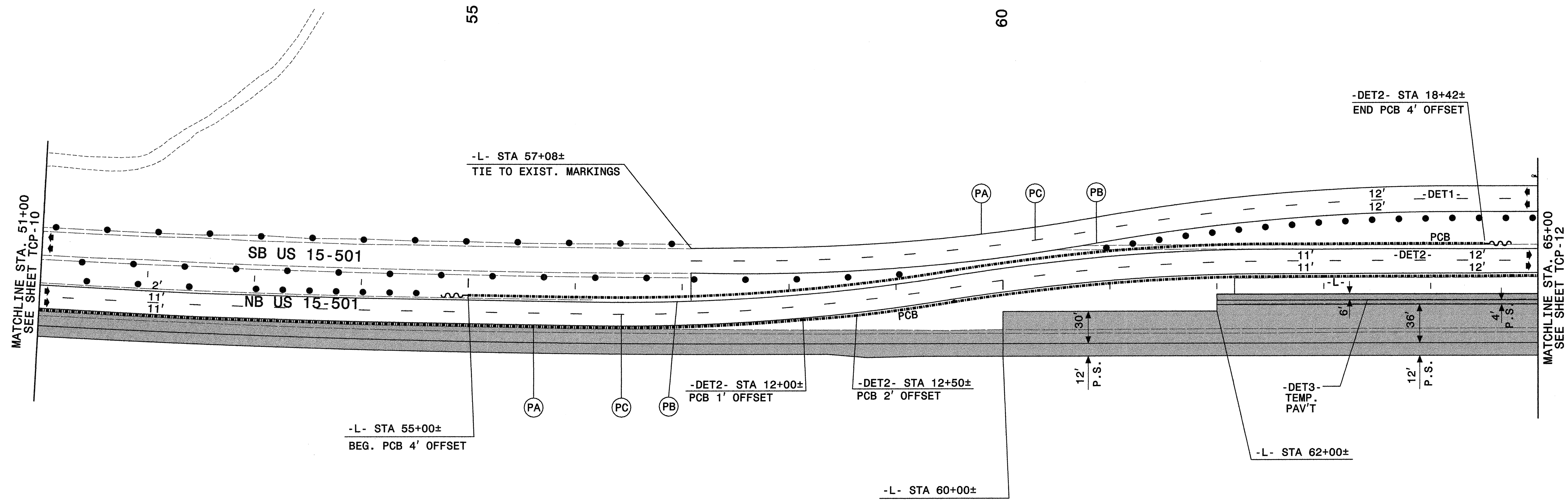
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MATCHLINE STA. 51+00
SEE SHEET TCP-10

MATCHLINE STA. 65+00
SEE SHEET TCP-12

SB US 15-501

NB US 15-501

-L- STA 55+00±
BEG. PCB 4' OFFSET

-L- STA 57+08±
TIE TO EXIST. MARKINGS

-DET2- STA 12+00±
PCB 1' OFFSET

-DET2- STA 12+50±
PCB 2' OFFSET

-L- STA 60+00±

-DET2- STA 18+42±
END PCB 4' OFFSET

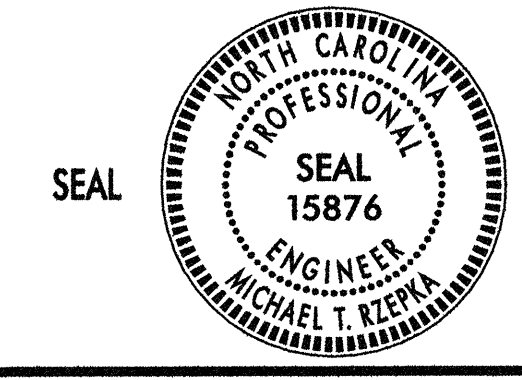
-DET3-
TEMP.
PAV'T

-L- STA 62+00±

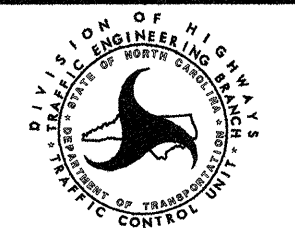
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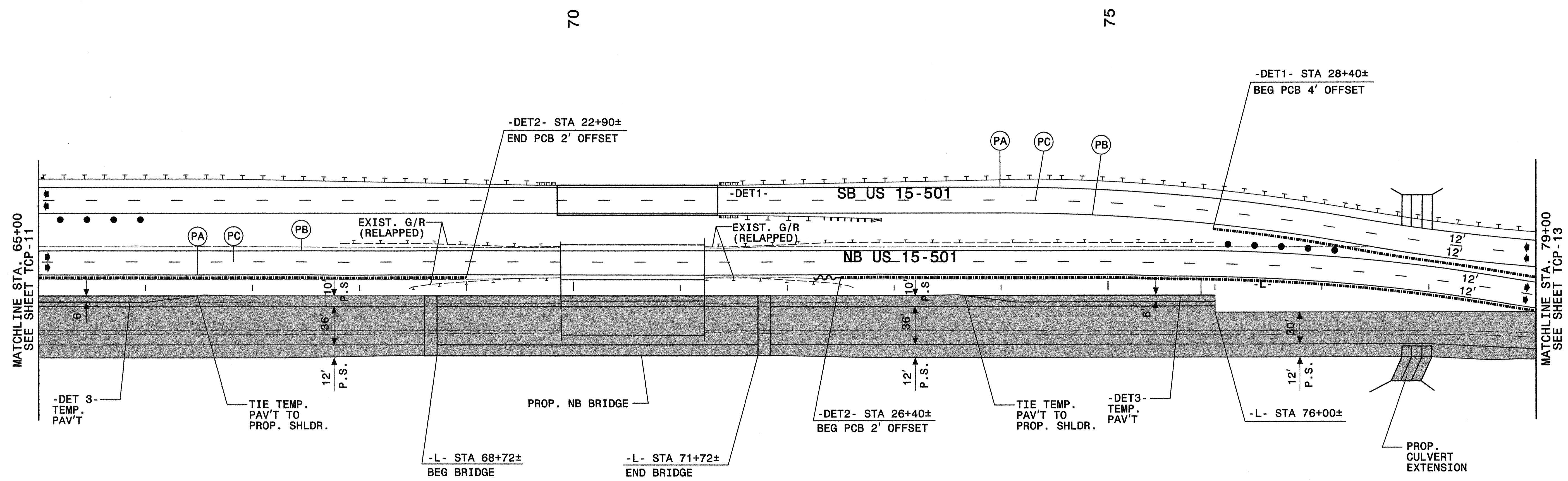
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APPROVED: *Michael T. Rzepka* DATE: 1-17-05



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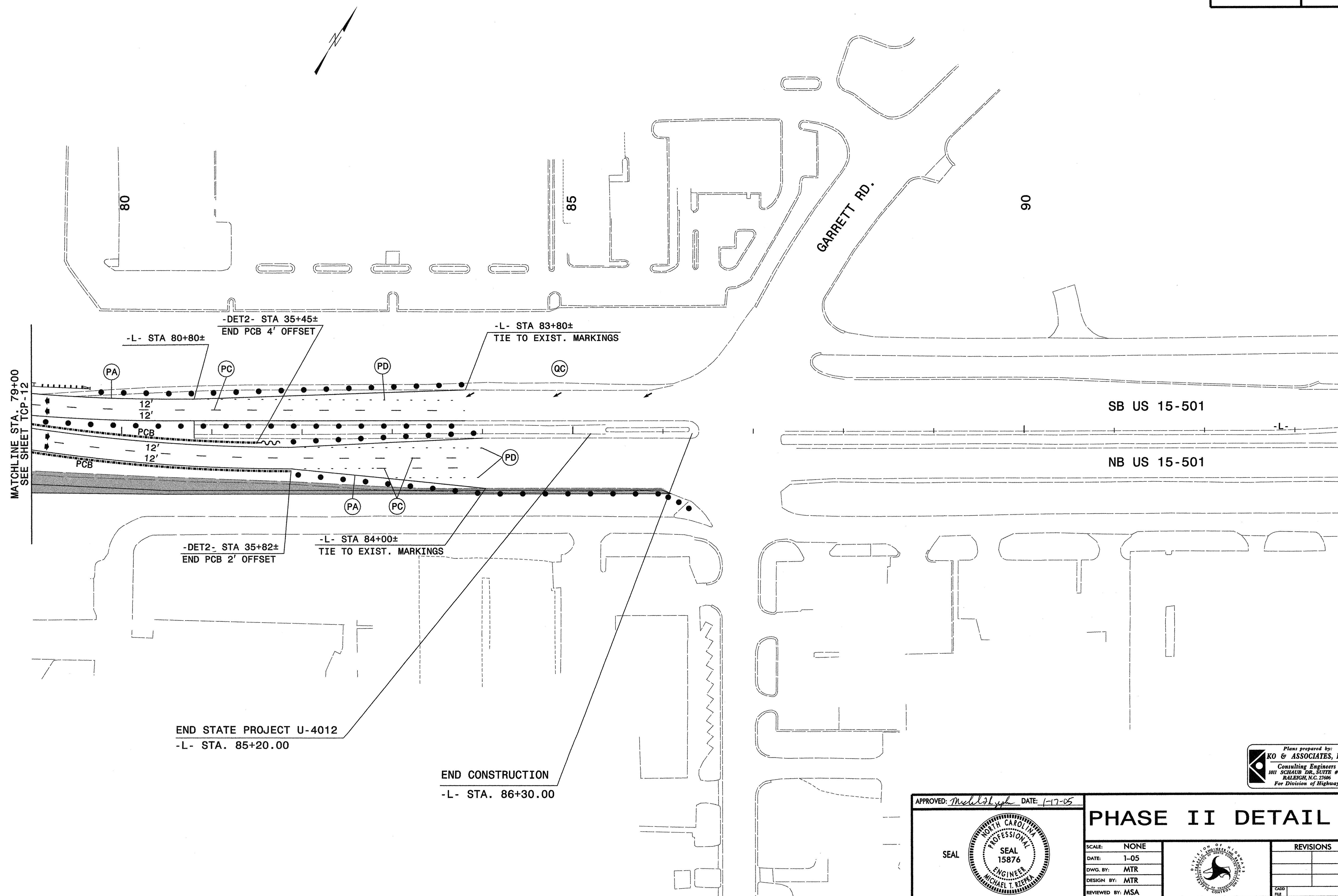
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APPROVED: <i>Mehlorsoph</i> DATE: 1-17-05		PHASE II DETAIL																
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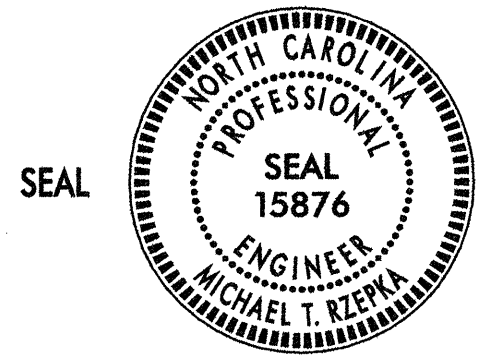
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SEE SHEET TCP-12

END STATE PROJECT U-4012
-L- STA. 85+20.00

END CONSTRUCTION
-L- STA. 86+30.00

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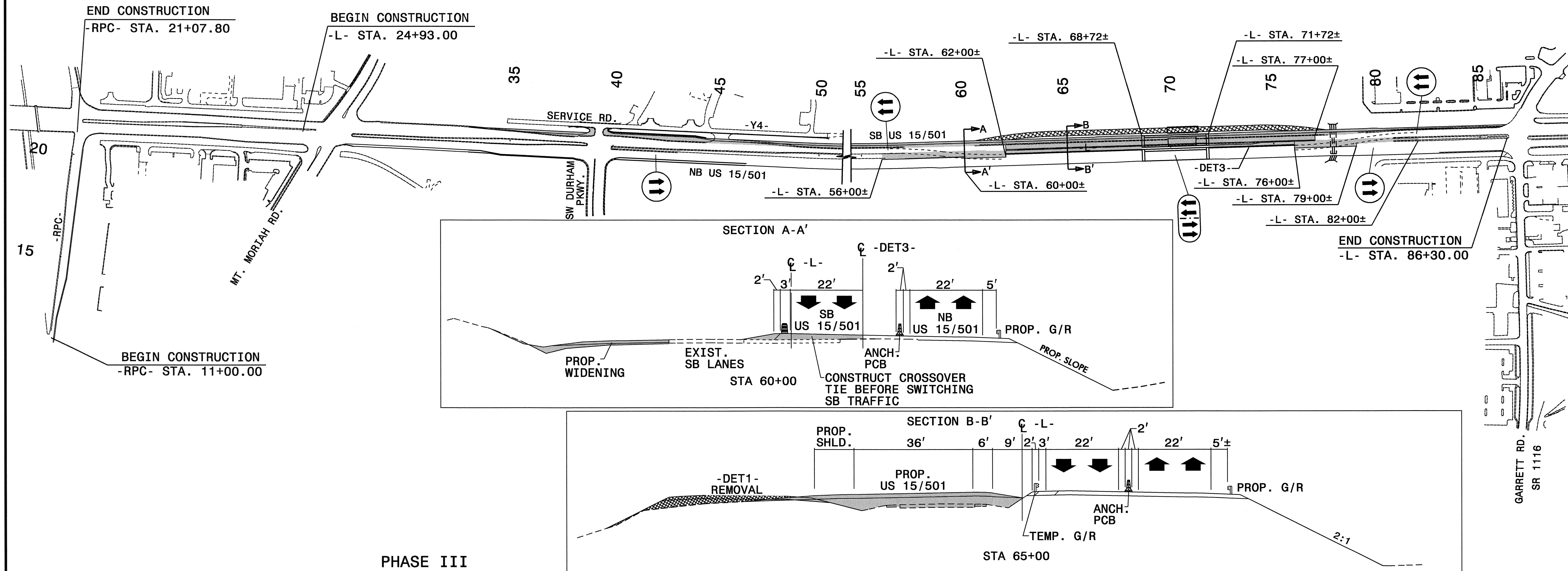


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DATE: 1-05												
DWG. BY: MTR												
DESIGN BY: MTR												
REVIEWED BY: MSA												

DATE: 1-17-05

PHASE III OVERVIEW



PHASE III

STEP 1

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), PERFORM THE FOLLOWING (SEE SHEETS TCP-14 THRU 18):

- REMOVE PCB ALONG OUTSIDE LANE OF NB US 15-501 FROM -L- STA 40+50± TO -DET2- STA 13+00± AND FROM -DET2- STA 33+00± TO STA 35+82± (REPLACE WITH DRUMS).
- WEDGE A TEMPORARY TIE FROM EXISTING PAVEMENT TO PROPOSED PAVEMENT ON NB US 15-501 AT -L- STA 60+00± AND AT STA 79+00±.
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AND SHIFT NB TRAFFIC FROM -DET2- TO TEMPORARY PATTERN IN PROPOSED OUTSIDE TWO LANES AND SHOULDER OF NB US 15-501.
- PLACE/RESET PCB ALONG MEDIAN LANE OF -DET1- FROM -L- STA 55+00± TO -DET1- STA 13+35± (TIE TO PCB) AND -DET1- STA 30+50± TO -L- STA 83+00± (TIE TO PCB).
- PLACE PCB ALONG NB US 15-501 FROM -L- STA 53+00± TO STA 58+50± (TIE TO ANCH.PCB)
- PLACE ANCHORED PCB ALONG NB US 15-501 FROM -L- STA 79+00± TO STA 82+00± (TIE TO ANCHORED PCB).

BEHIND BARRIER AND USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), CONSTRUCT -DET3- FROM -L- STA 56+00± TO STA 62+00± AND FROM -L- STA 76+00± TO STA 82+00± (SEE SHEETS TCP-16 THRU 18).

STEP 2

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), PERFORM THE FOLLOWING (SEE SHEETS TCP-19 THRU 23):

- REMOVE PCB ALONG MEDIAN LANE OF SB US 15-501 FROM -L- STA 55+00± TO -DET1- STA 12+00± AND FROM -DET1- STA 28+40± TO -L- STA 83+00±.
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON SB US 15-501 AND -DET3- AND SHIFT SB TRAFFIC TO THE EXISTING MEDIAN SHOULDER OF SB US 15-501 AND TO -DET3-.
- PLACE/RESET PCB ALONG SB US 15-501 AND -DET3- AT THE FOLLOWING LOCATIONS:
 - L- STA 33+00± TO -L- STA 38+68±
 - L- STA 39+62± TO -DET3- STA 13+00±
 - DET3- STA 29+95± TO -L- STA 85+70±

BEHIND GUARDRAIL AND PCB, CONSTRUCT PROPOSED SB US 15-501 STRUCTURE FROM -L- STA 68+72± TO STA 71+72± (SEE SHEET TCP-22).

BEHIND GUARDRAIL AND PCB, BEGIN CONSTRUCTION OF THE PROPOSED MEDIAN FROM -L- STA 62+00± TO STA 76+00± (SEE SHEETS TCP-21 & 22).

BEHIND GUARDRAIL AND PCB, CONSTRUCT PROPOSED UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS (SEE SHEETS TCP-19 THRU 23):

- SB US 15-501 -L- STA 33+00± TO STA 62+00± (OUTSIDE WIDENING)
- SB US 15-501 -L- STA 62+00± TO STA 68+72± (FULL SECTION)
- SB US 15-501 -L- STA 71+72± TO STA 77+00± (FULL SECTION)
- SB US 15-501 -L- STA 77+00± TO STA 86+30± (OUTSIDE WIDENING)
- REMOVE -DET1-

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 1 OF 9), CONSTRUCT PROPOSED CURB AND GUTTER ALONG -Y4- FROM STA 13+00± TO STA 25+68± (SEE SHEET TCP-20).

REVISED FEBRUARY 2007 TO UPDATE THE ROADWAY STANDARDS REFERENCED IN THE PHASING TO THE 2006 ROADWAY STANDARDS.

REVISED JULY 2007 TO CHANGE THE ROAD NAME IN THE TYPICAL SECTIONS FROM I-85 TO US 15/501

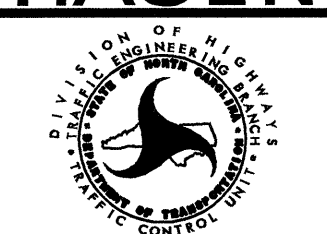
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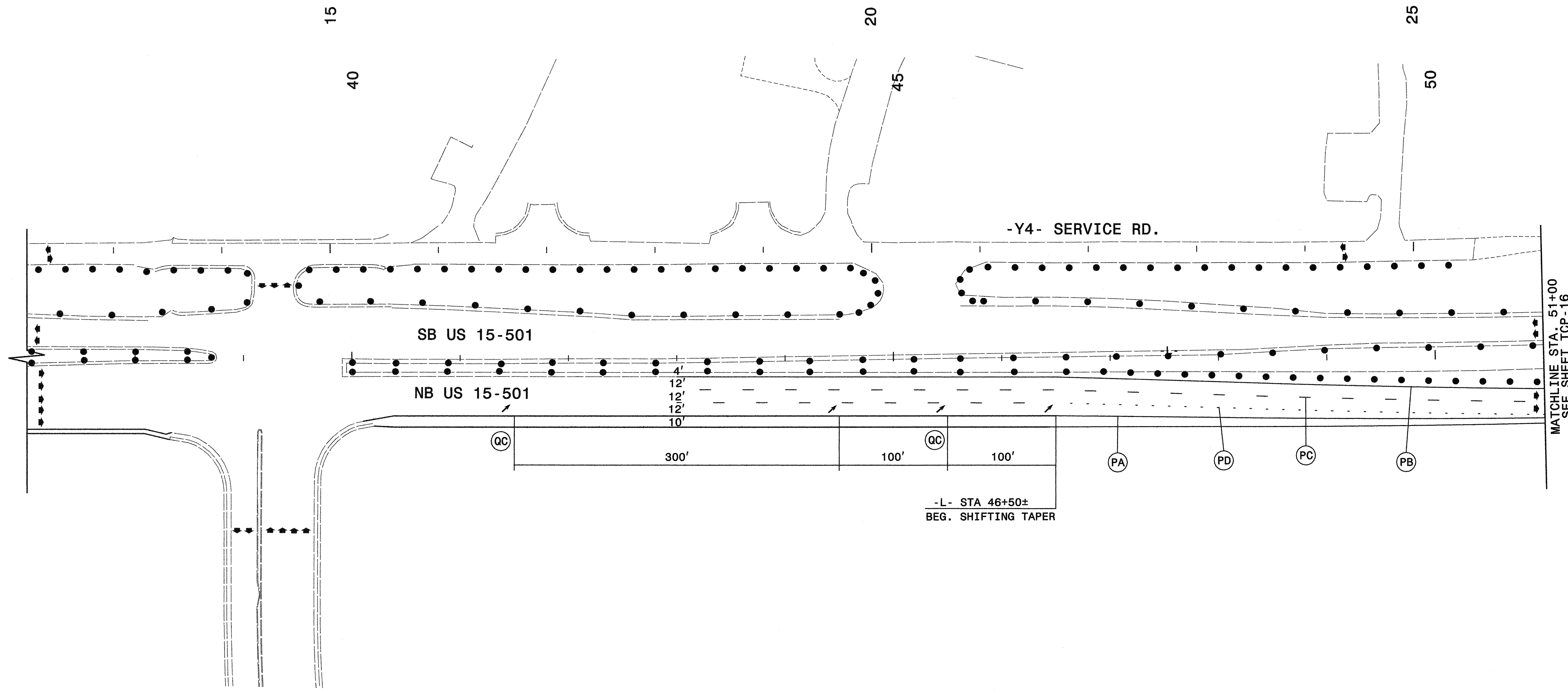
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 For Division of Highways



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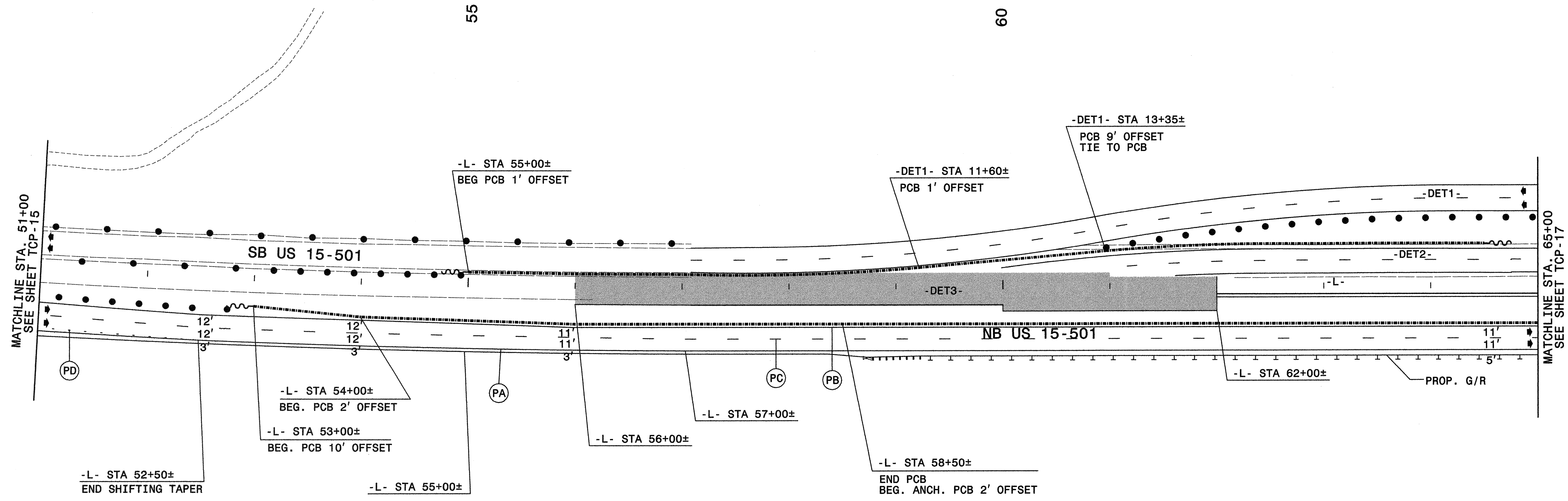
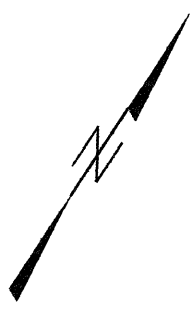


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SW DURHAM PKWY.

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APPROVED: <i>Michael R. Ryznar</i> DATE: 1-19-05		PHASE III STEP 1 DETAIL	
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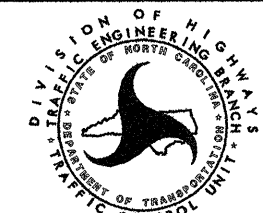


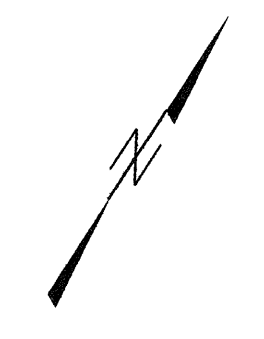
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SEE SHEET TCP-15

MATCHLINE STA. 65+00
SEE SHEET TCP-17

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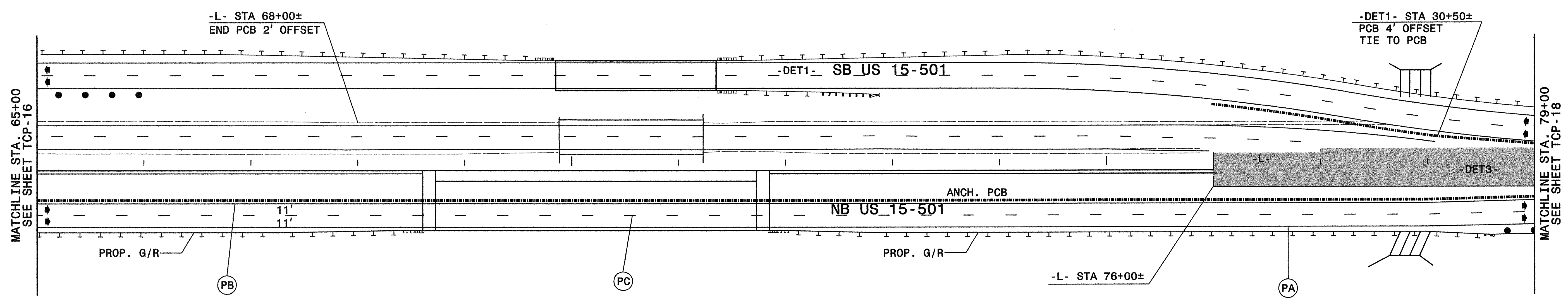
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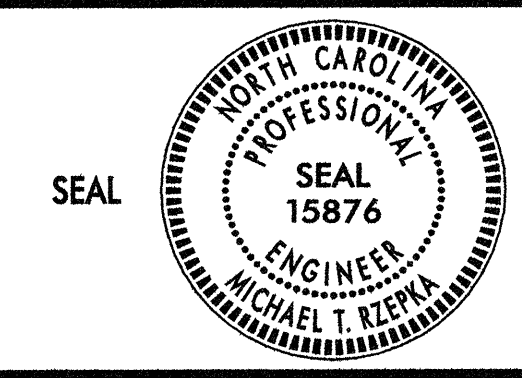
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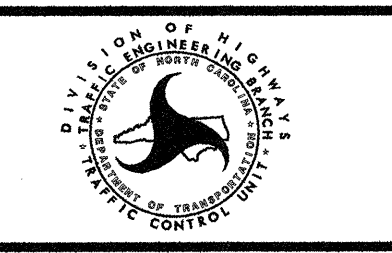
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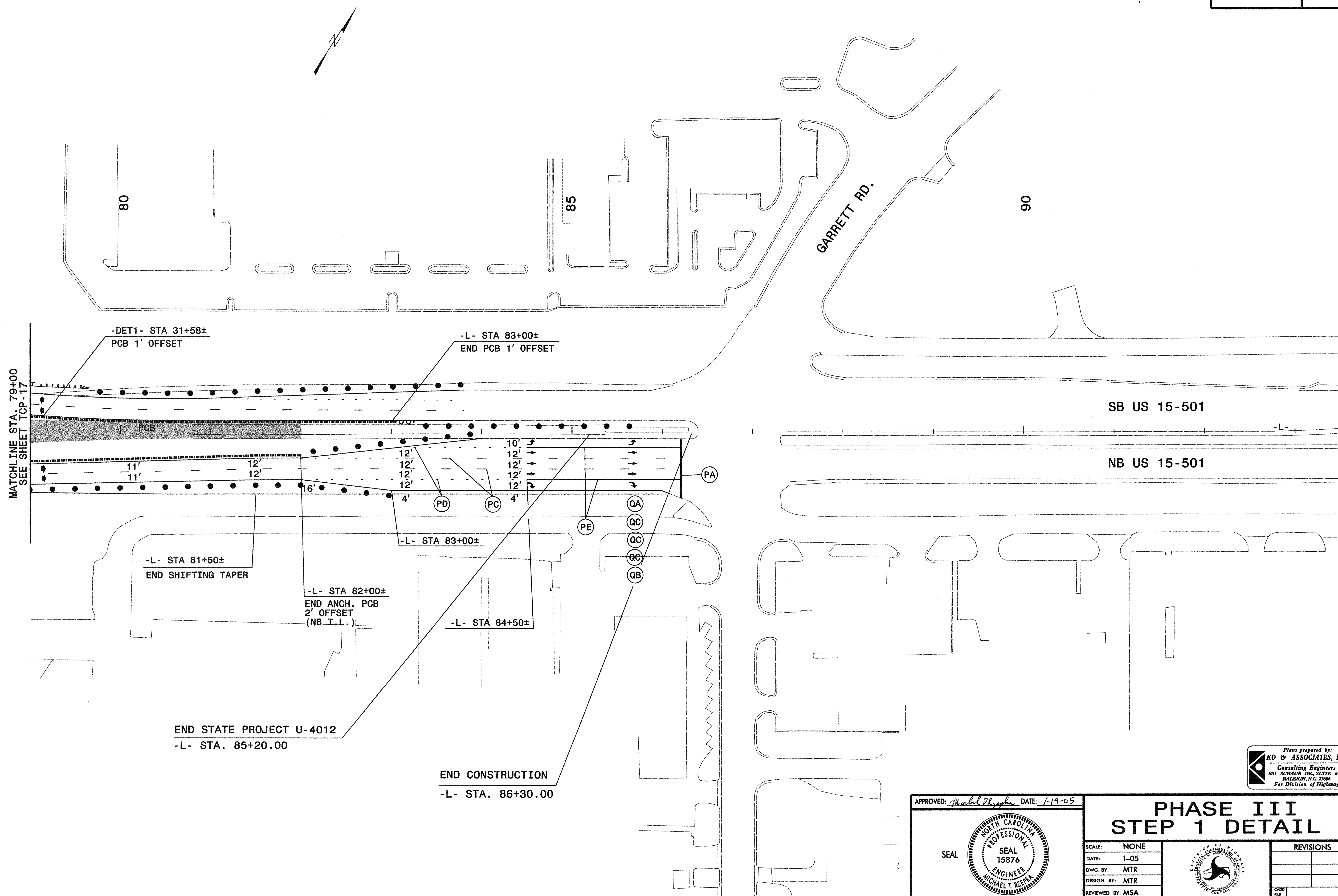
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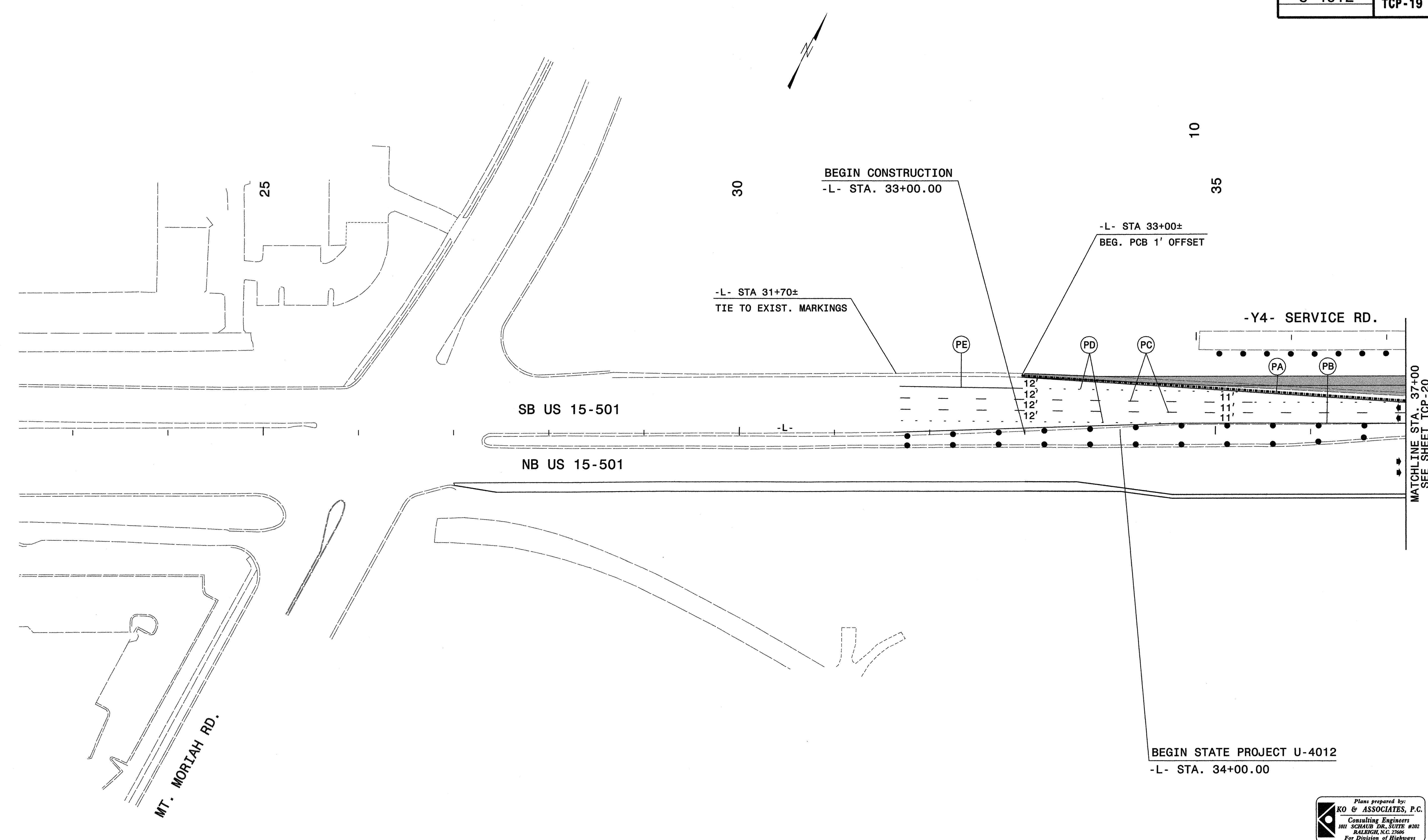
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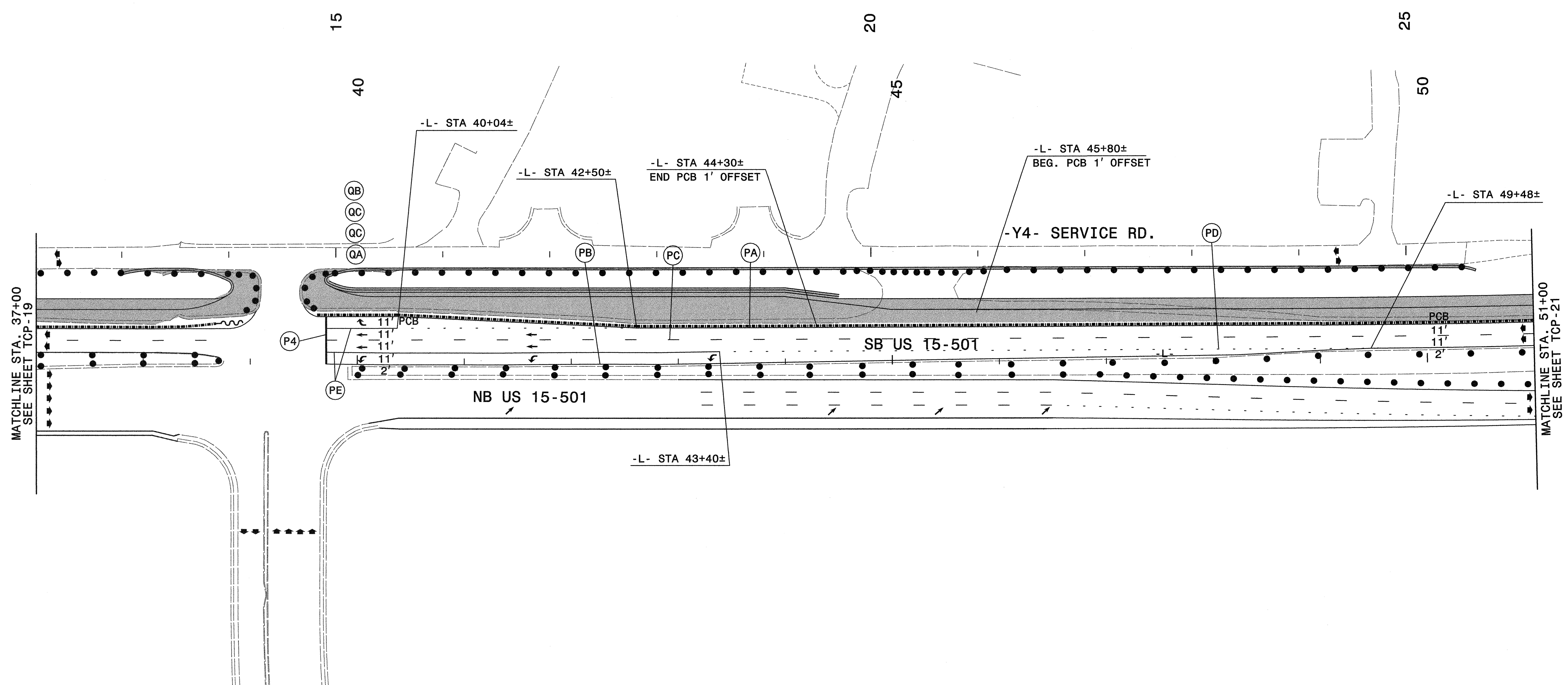


MATCHLINE STA. 37+00
SEE SHEET TCP-20

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APPROVED: <i>Michael R. Rupp</i> DATE: 1-17-05	PHASE III STEP 2 DETAIL								
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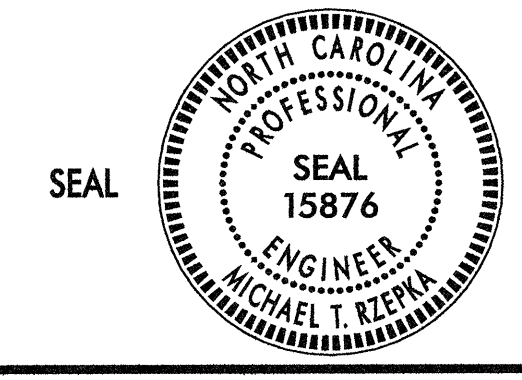
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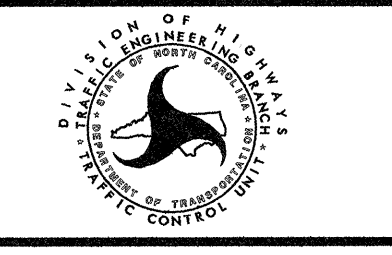
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APPROVED: *Michael T. Rzepka* DATE: 2-11-05



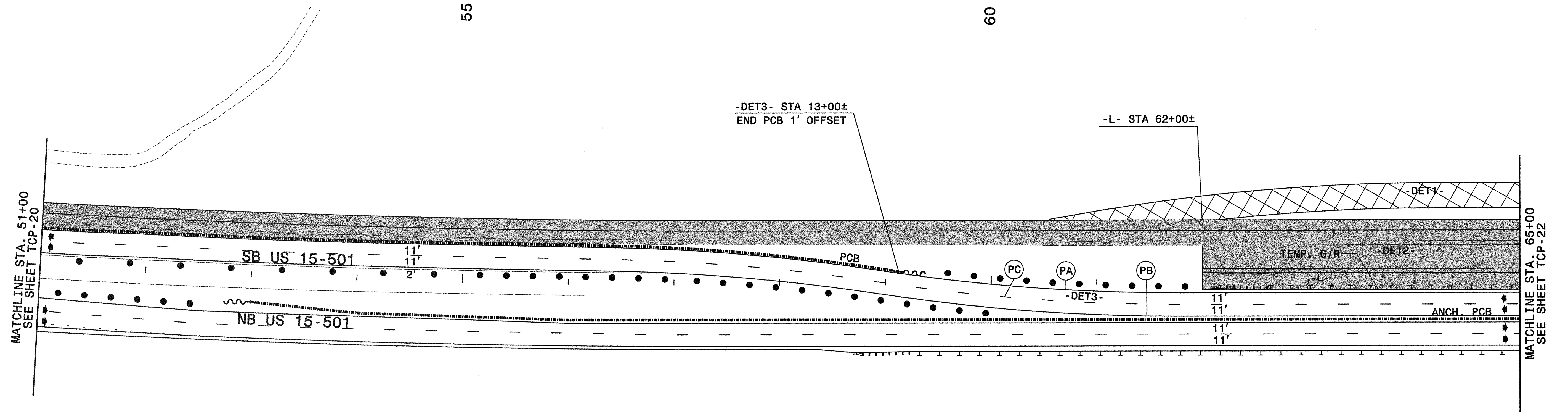
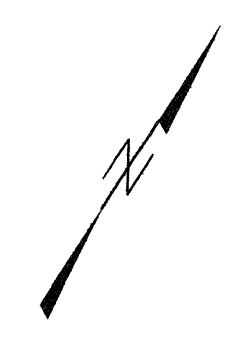
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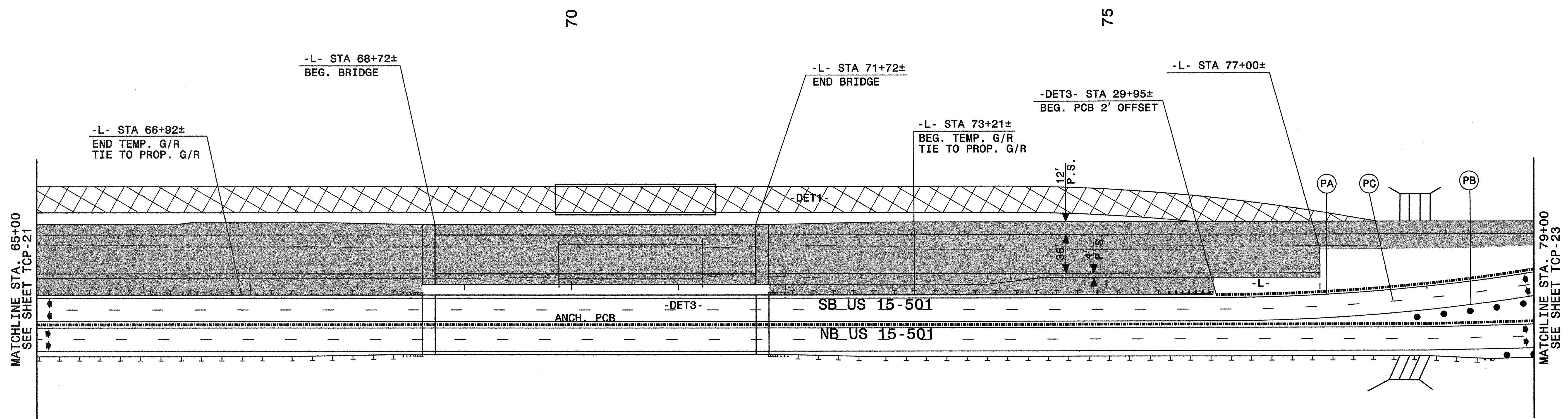
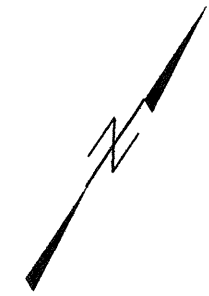
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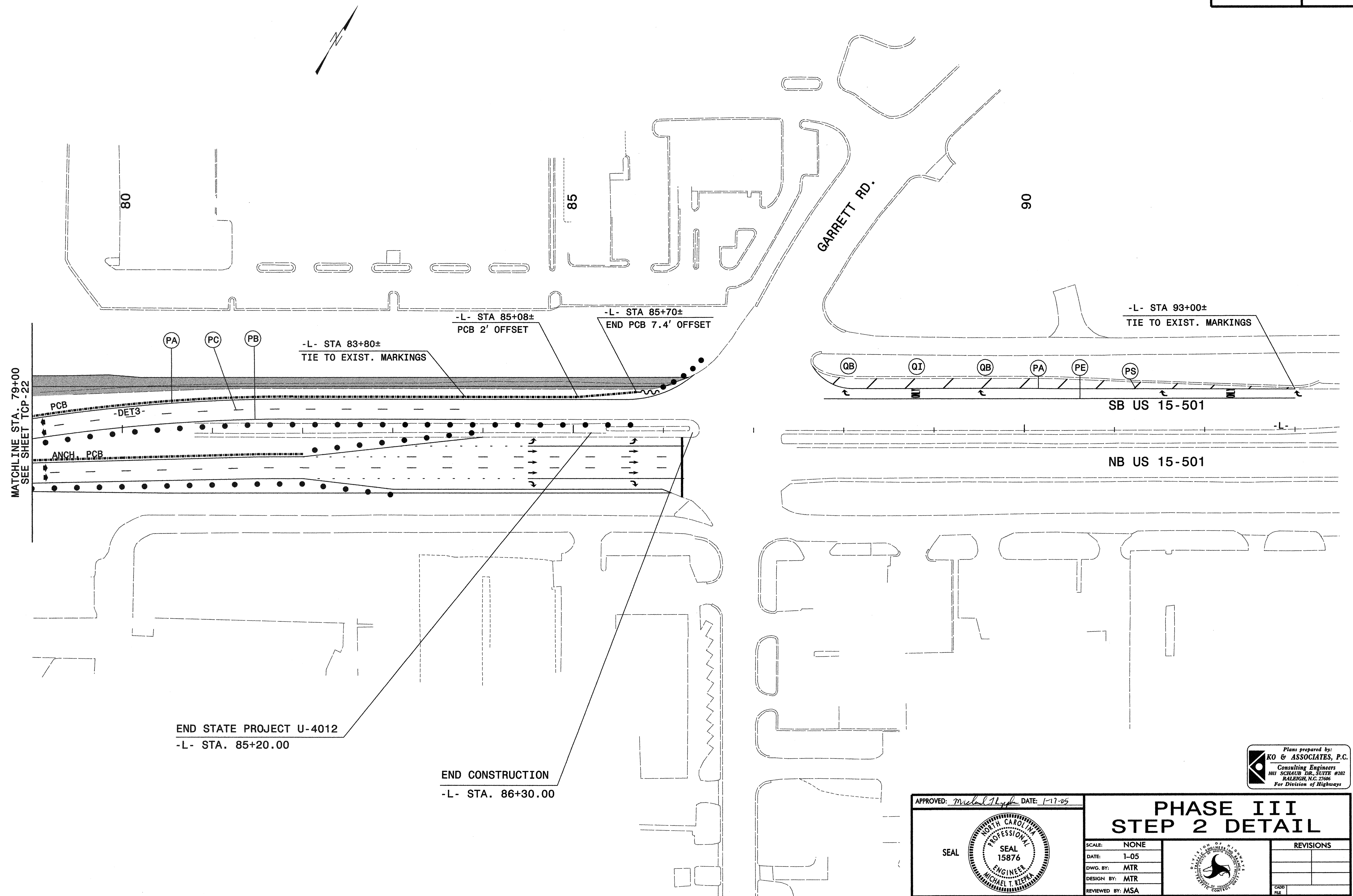
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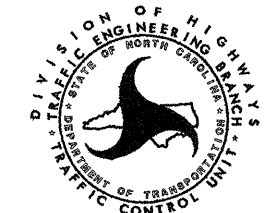


MATCHLINE STA. 79+00
SEE SHEET TCP-22

END STATE PROJECT U-4012
-L- STA. 85+20.00

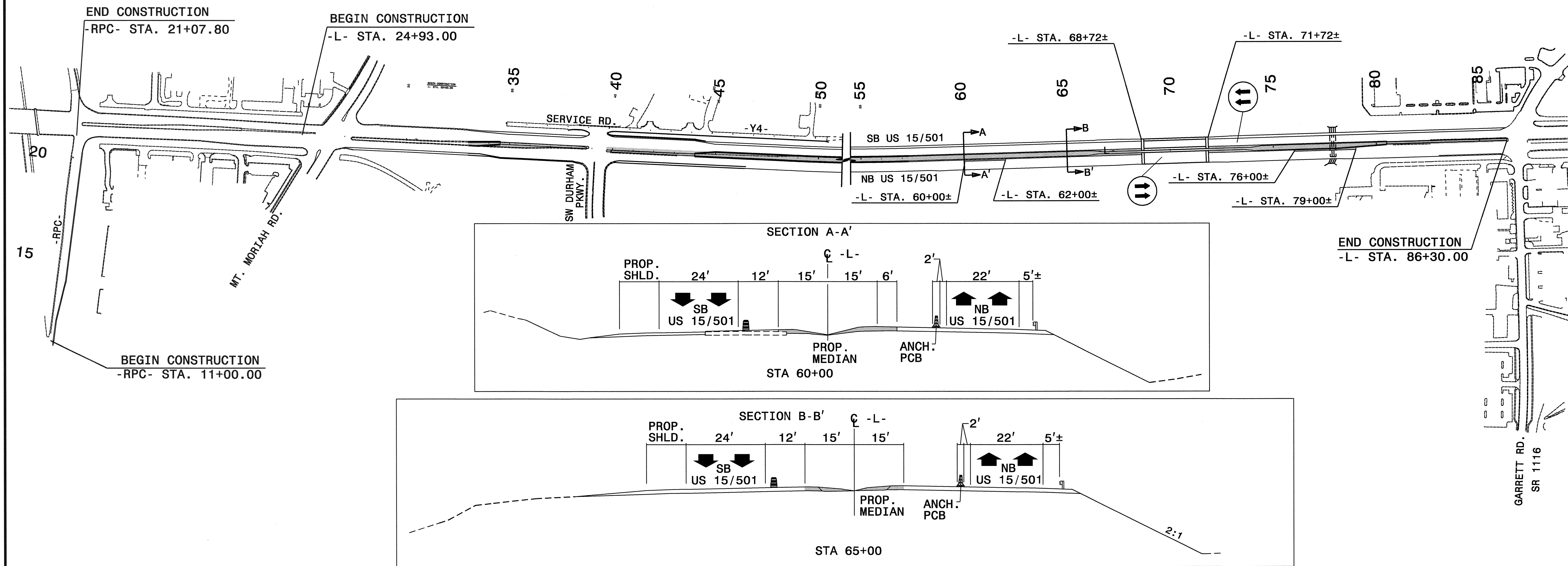
END CONSTRUCTION
-L- STA. 86+30.00

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PHASE IV OVERVIEW



PHASE IV

STEP 1

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), PERFORM THE FOLLOWING (SEE SHEETS TCP-25 THRU 29):

- REMOVE PCB ALONG SB US 15-501 OUTSIDE LANE AND REPLACE WITH DRUMS AT THE FOLLOWING LOCATIONS:
 - L- STA 33+00± TO -L- STA 44+30±
 - L- STA 45+80± TO -DET3- STA 13+00±
 - DET3- STA 29+95± TO -L- STA 85+70±
- WEDGE A TEMPORARY TIE FROM EXISTING PAVEMENT TO PROPOSED PAVEMENT ON SB US 15-501 AT -L- STA 62+00± AND AT STA 77+00±.
- PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS AND SHIFT TRAFFIC FROM -DET3- TO PROPOSED OUTSIDE TWO LANES OF SB US 15-501.
- REMOVE REMAINING PCB ALONG NB US 15-501/-DET3- AND REPLACE WITH DRUMS

STEP 2

BEHIND DRUMS AND USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), CONSTRUCT PROPOSED MEDIAN AT THE FOLLOWING LOCATIONS (SEE SHEETS TCP-25 THRU 29):

- L- STA 33+00± TO STA 62+00±
- L- STA 76+00± TO STA 86+30±

BEHIND DRUMS AND USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), CONSTRUCT PROPOSED UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS (SEE SHEETS TCP-27 & 28):

- NB US 15-501 -L- STA 60+00± TO STA 62+00± (REMAINING PORTION)
- NB US 15-501 -L- STA 76+00± TO STA 79+00± (REMAINING PORTION)

COMPLETE CONSTRUCTION AT THE FOLLOWING LOCATIONS:

- MEDIAN -L- STA 62+00± TO STA 76+00±
- NB US 15-501 -L- STA 34+00± TO STA 60+00± (WEDGING/RESURFACING)
- SB US 15-501 -L- STA 34+00± TO STA 62+00± (WEDGING/RESURFACING)
- NB US 15-501 -L- STA 79+00± TO STA 86+30± (WEDGING/RESURFACING)
- SB US 15-501 -L- STA 77+00± TO STA 86+30± (WEDGING/RESURFACING)

COMPLETE MILLING & RESURFACING OF NB & SB US 15-501 FROM -L- STA 24+93± TO STA 34+00±.

COMPLETE INSTALLATION OF PROPOSED DRAINAGE.

PHASE V

STEP 1

USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), PLACE FINAL LAYER OF SURFACE COURSE, PROPOSED MONOLITHIC ISLANDS AND FINAL PAVEMENT MARKINGS AND MARKERS AND OPEN NB & SB US 15-501 TO PROPOSED PATTERN (SEE SHEETS PM-1 THRU 3).

STEP 2

REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES.

APPROVED: _____ DATE: _____

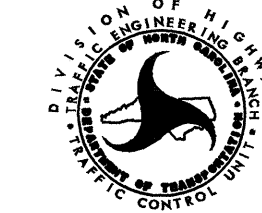
REVISED FEBRUARY 2007 TO UPDATE THE ROADWAY STANDARDS REFERENCED IN THE PHASING TO THE 2006 ROADWAY STANDARDS.

REVISED JULY 2007 TO CHANGE THE ROAD NAME IN THE TYPICAL SECTIONS FROM I-85 TO US 15/501

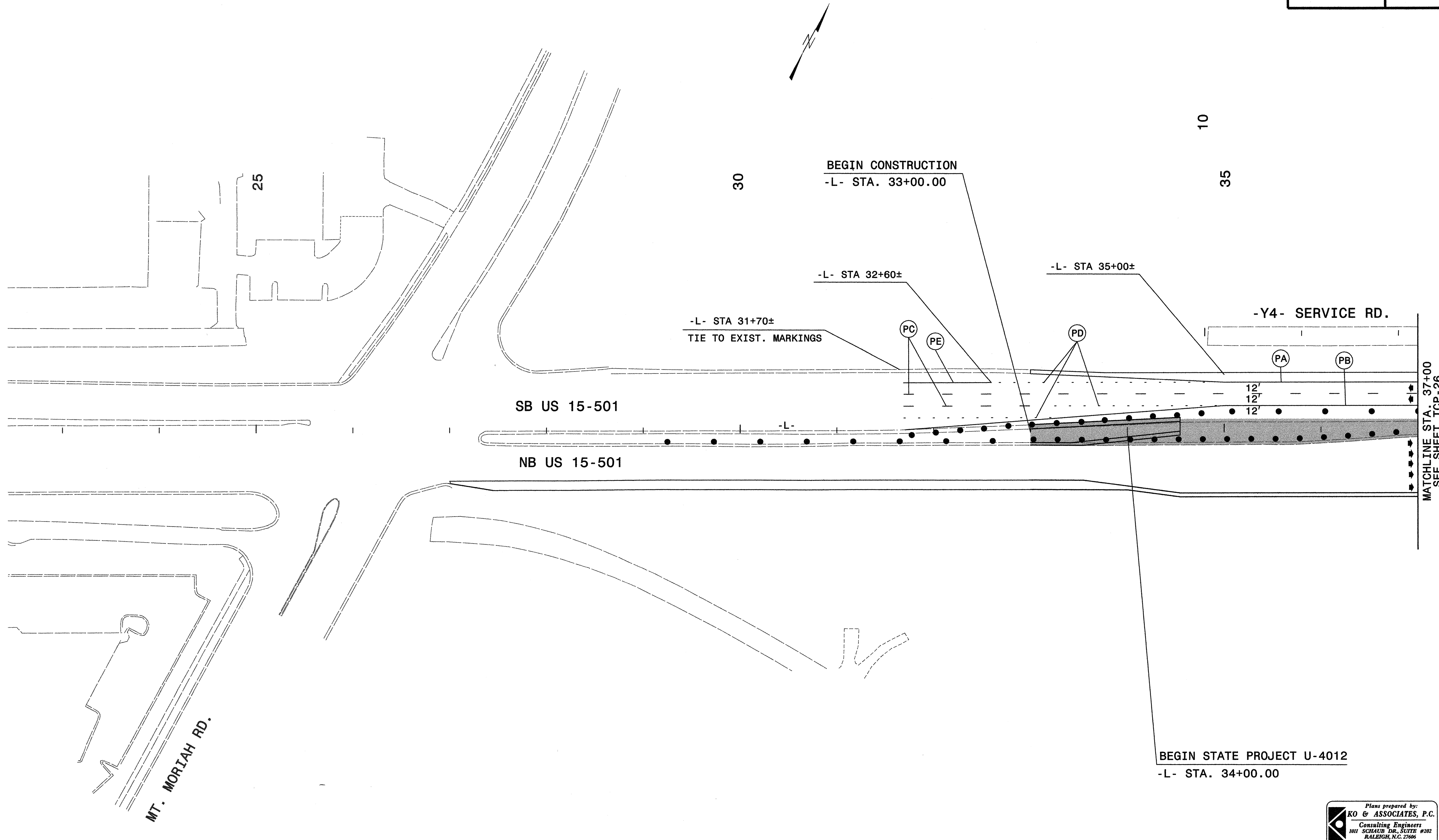
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PHASES IV & V PHASING	
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DATE: 1-05	
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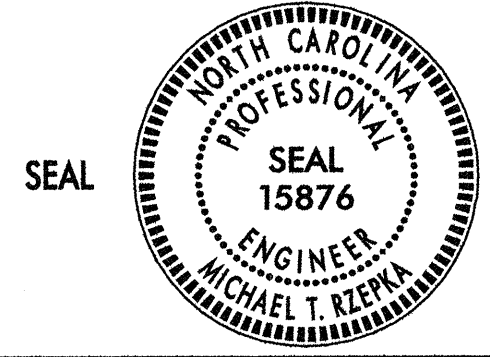
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APPROVED: *Michael R. Ryan* DATE: 1-17-05



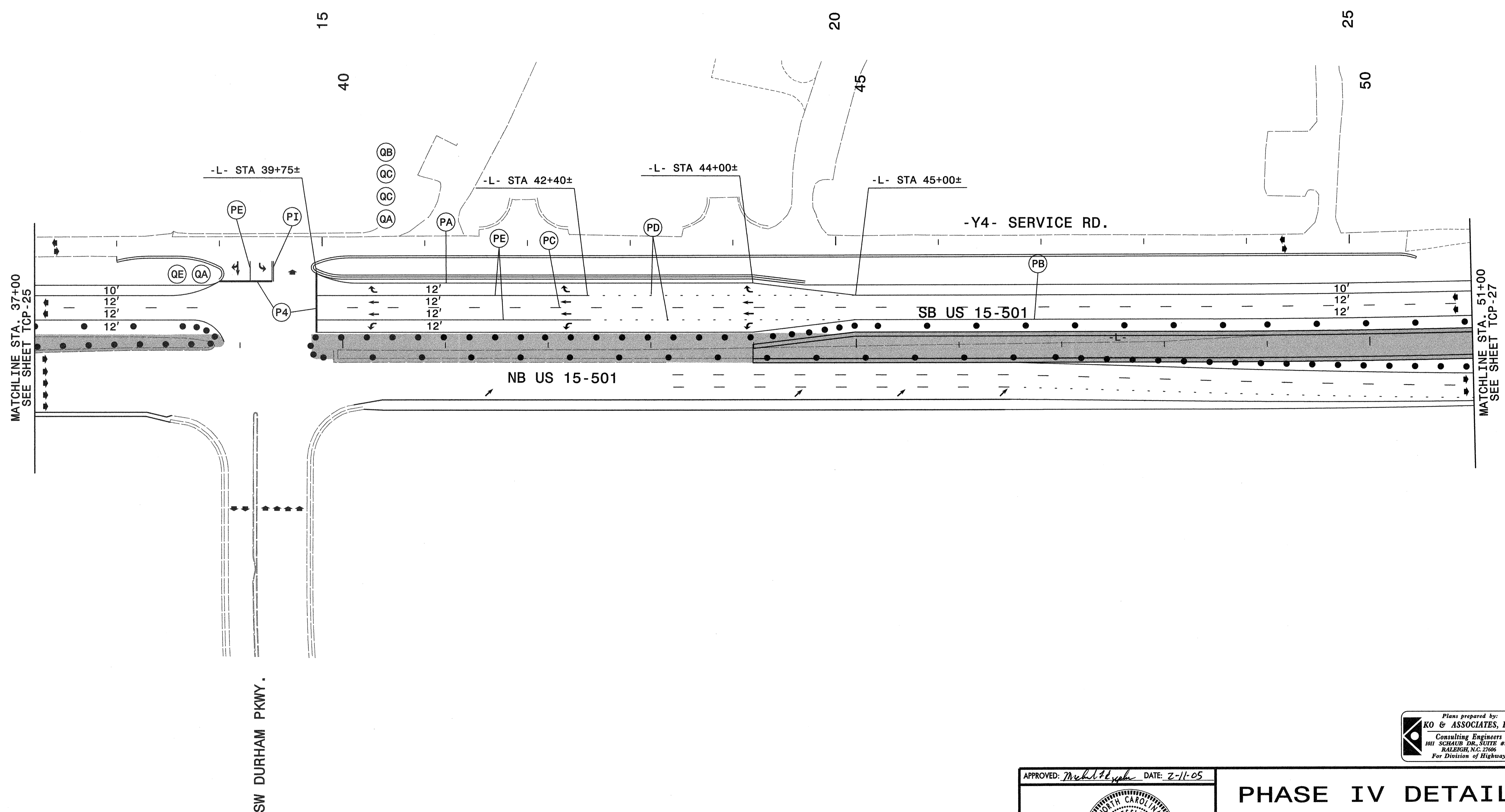
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MATCHLINE STA. 37+00
SEE SHEET TCP-25

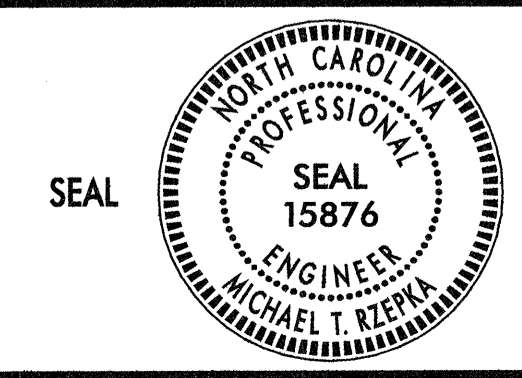
MATCHLINE STA. 51+00
SEE SHEET TCP-27

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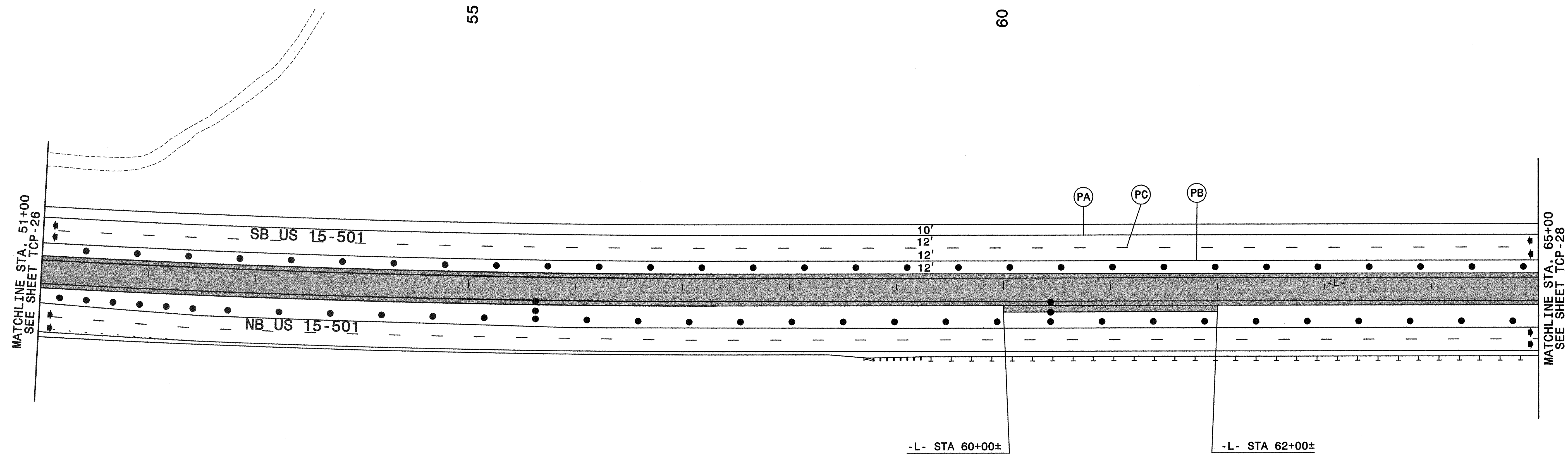
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MATCHLINE STA. 51+00
SEE SHEET TCP-26

MATCHLINE STA. 65+00
SEE SHEET TCP-28

-L- STA 60+00±

-L- STA 62+00±

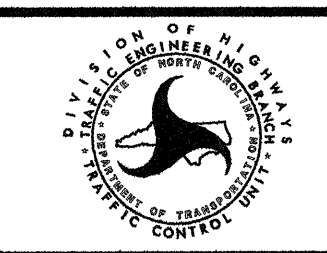
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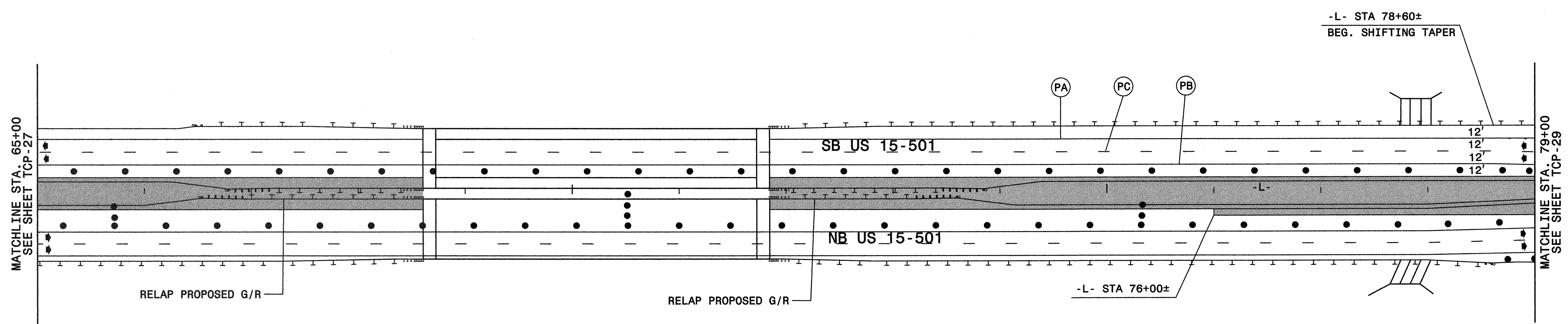


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MATCHLINE STA. 65+00
SEE SHEET TCP-27

MATCHLINE STA. 79+00
SEE SHEET TCP-29

RELAP PROPOSED G/R

RELAP PROPOSED G/R

-L- STA 76+00±

-L- STA 78+60±
BEG. SHIFTING TAPER

SB US 15-501

NB US 15-501

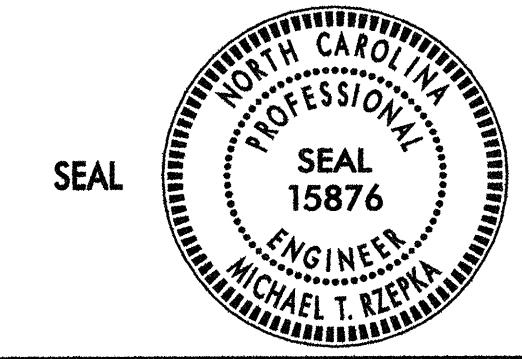
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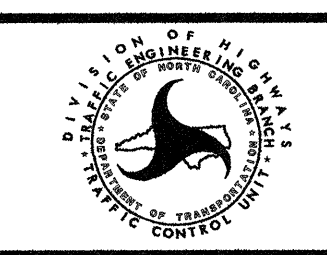
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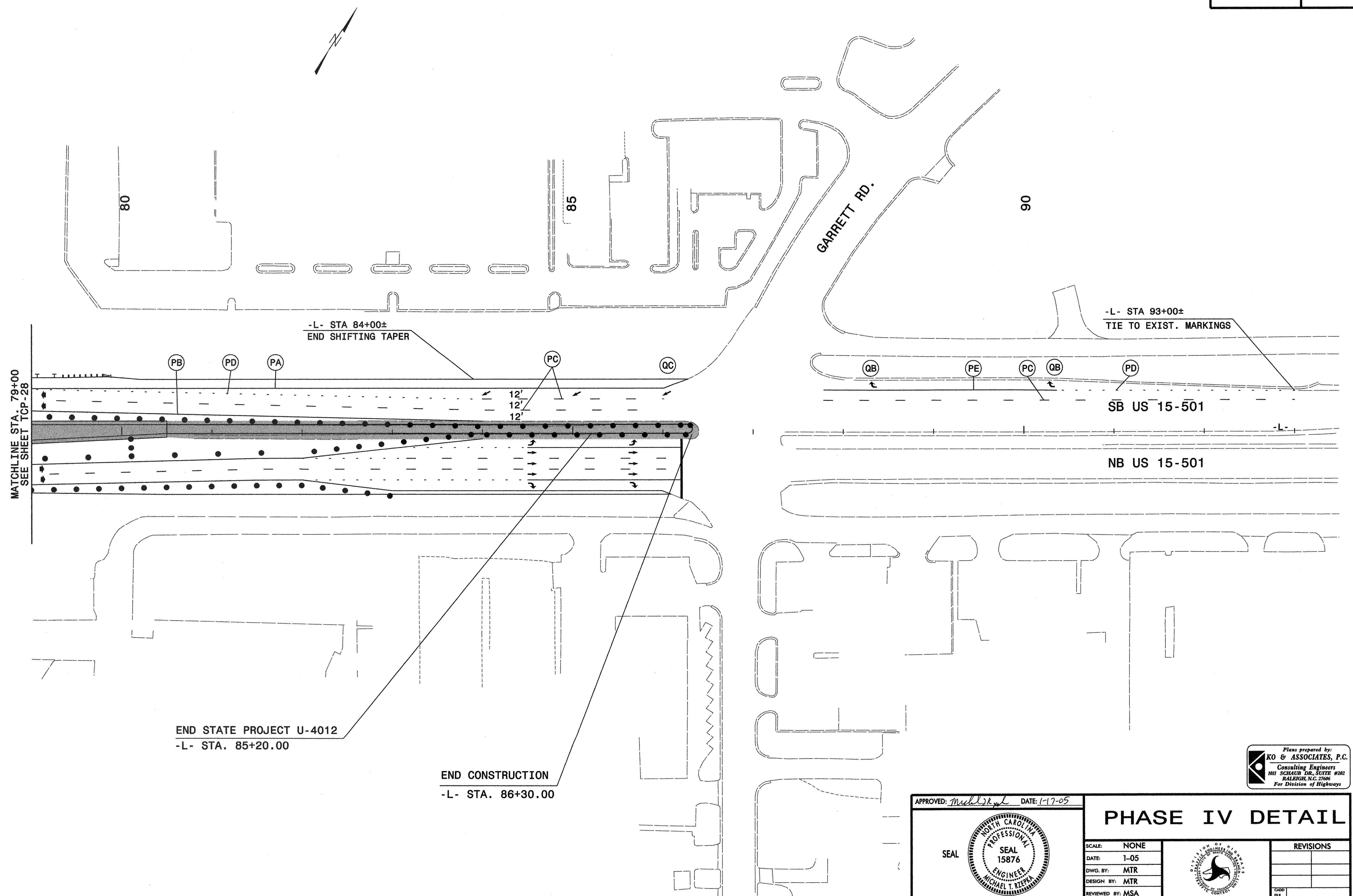
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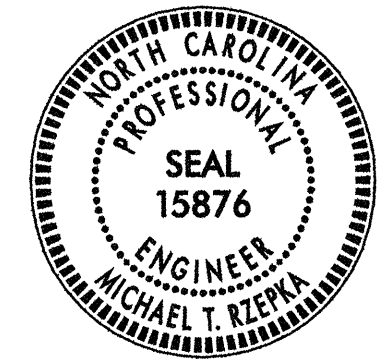
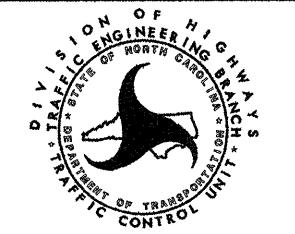
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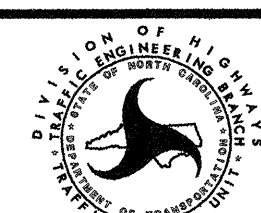
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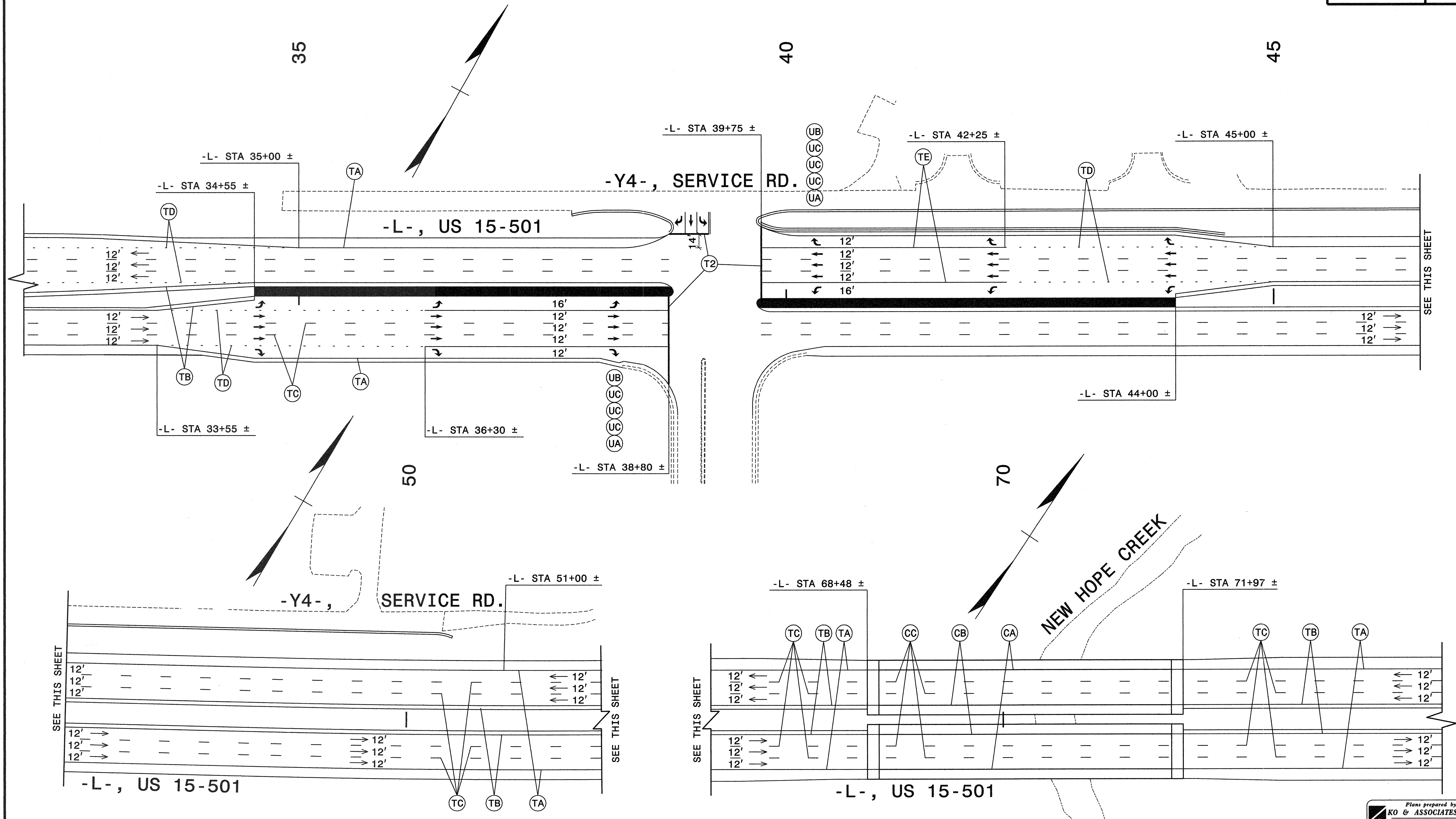
FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY BREAKDOWN	PAY ITEM	TOTAL QUANTITY
PAVEMENT MARKING LINES				
			COLD APPLIED PLASTIC (4")	
CA	WHITE EDGELINE	698 LF		
CB	YELLOW EDGELINE	698 LF		
CC	10 FT WHITE SKIP	175 LF		
			TOTAL	1571 LF
			THERMOPLASTIC (4", 90 mils)	
TA	WHITE EDGELINE	12504 LF		
TB	YELLOW EDGELINE	10365 LF		
			TOTAL	22869 LF
			THERMOPLASTIC (4", 120 mils)	
TC	10 FT WHITE SKIP	5694 LF		
TD	2 FT WHITE MINISKIP	548 LF		
TE	WHITE SOLID LANE LINE	3125 LF		
			TOTAL	9367 LF
			THERMOPLASTIC (8", 90 mils)	
TP	WHITE GORELINE	33 LF		
			TOTAL	33 LF
			THERMOPLASTIC (24", 120 mils)	
T2	WHITE STOP BAR	463 LF		
			TOTAL	463 LF
PAVEMENT MARKING SYMBOLS				
			THERMOPLASTIC THICK SYMBOL (90 mils)	
UA	LEFT TURN ARROW	16 EA		
UB	RIGHT TURN ARROW	19 EA		
UC	STRAIGHT ARROW	36 EA		
UD	COMINATION STRAIGHT & LEFT TURN ARROW	2 EA		
			TOTAL	73 EA
PAVEMENT MARKERS				
			PERMANENT RAISED	
MB	CRYSTAL & RED	743 EA		
			TOTAL	743 EA

SEE ROADWAY STANDARD DRAWING NUMBERS 1205.01, 1205.02, 1205.03, 1205.04, 1205.05, 1205.08, 1250.01, 1251.01

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APPROVED: <i>Michael T. Rzepko</i> DATE: 1-17-05	FINAL PAVEMENT MARKING SCHEDULE	
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	DATE: 1-05	
	DWG. BY: B.L.M.	
	DESIGN BY: B.L.M.	
REVIEWED BY: M.T.R.	REVISIONS	CADD FILE



NOTES:

- SEE SHEET PM-1, FOR FINAL PAVEMENT MARKING SCHEDULE.
- PAVEMENT MARKINGS, SYMBOLS, AND CHARACTERS ARE TO BE MARKED ACCORDING TO ROADWAY STANDARD DRAWINGS UNLESS OTHERWISE NOTED IN THE PLANS.
- PAVEMENT MARKERS ARE TO BE SPACED ACCORDING TO THE ROADWAY STANDARD DRAWINGS

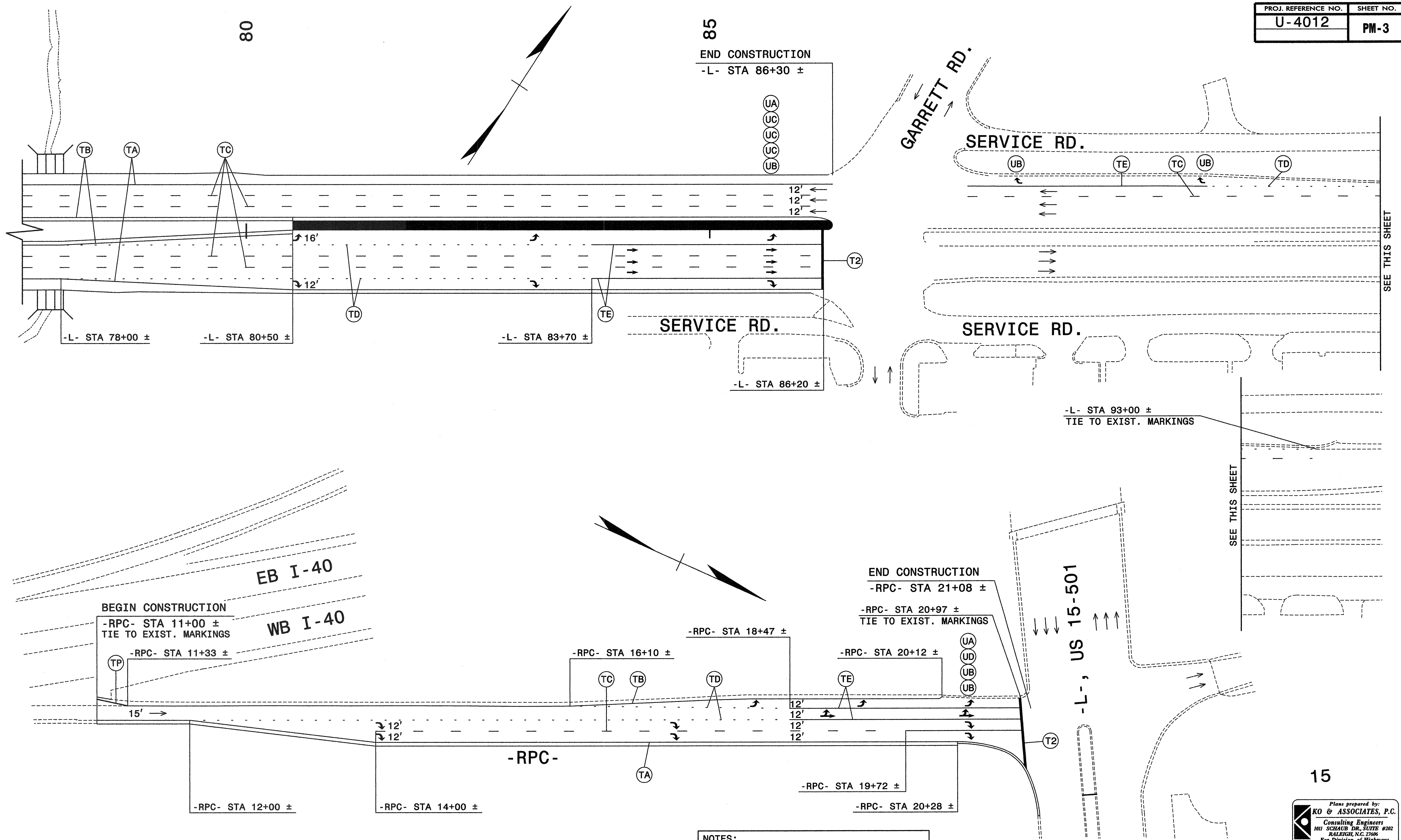
APPROVED: *Mehmet Kaya* DATE: 2-11-05



PAVEMENT MARKING PLAN		REVISIONS
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DWG. BY: B.L.M.	DESIGN BY: B.L.M.	
REVIEWED BY: M.T.R.		

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APPROVED: *Michael T. Riepan* DATE: 1-17-05

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PAVEMENT MARKING PLAN

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DESIGN BY: B.L.M.												
REVIEWED BY: M.T.R.												

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