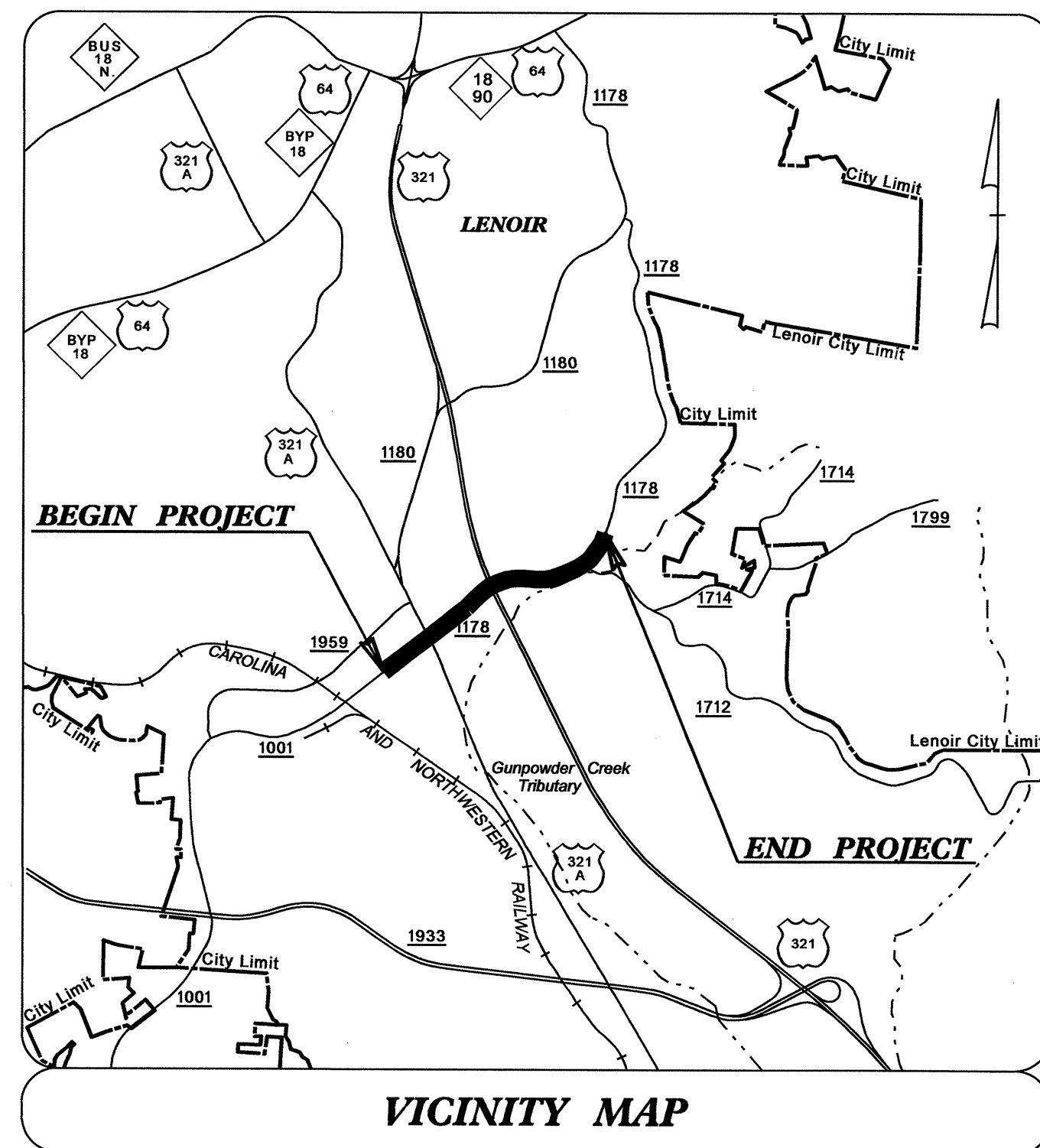
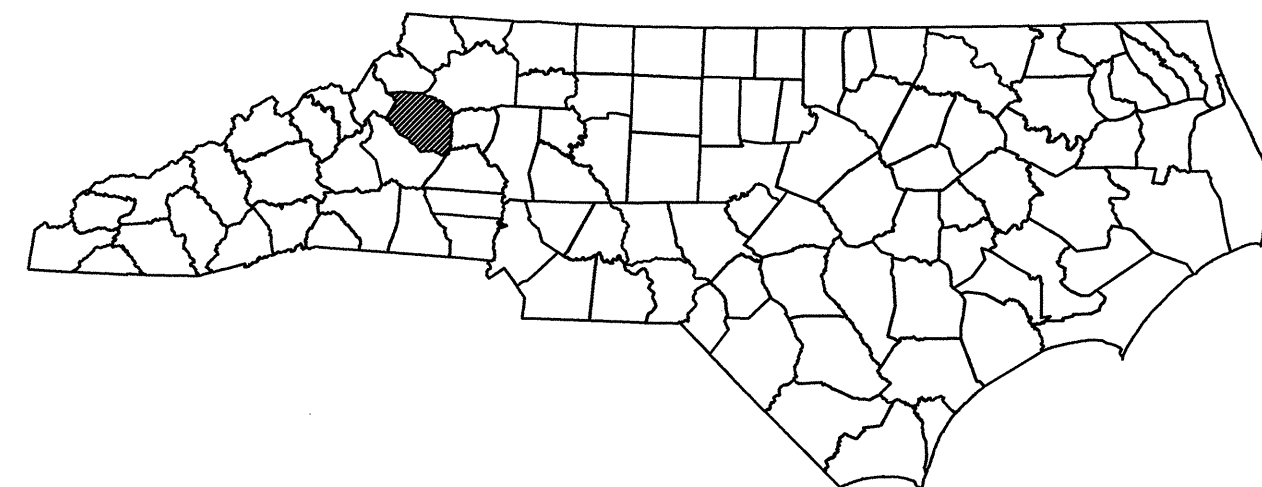


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CALDWELL COUNTY



LENOIR - SR 1001 FROM US 321A (NORWOOD STREET)
TO SR 1712 (STARCROSS ROAD) EAST OF US 321

INDEX OF SHEETS

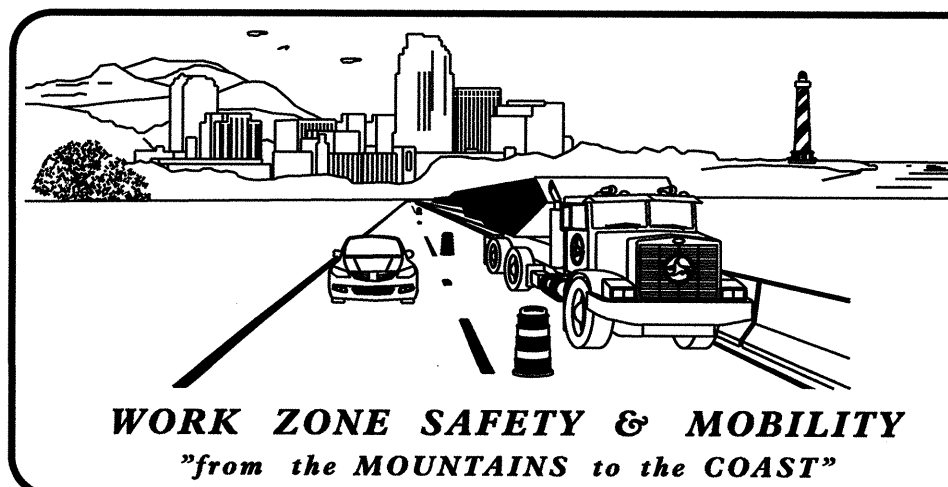
SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B - 1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND LOCAL NOTES)
TMP-2A	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TMP-2B	TEMPORARY SHORING DATA
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 - 16	TEMPORARY TRAFFIC CONTROL PHASE I
TMP-17 - 22	TEMPORARY TRAFFIC CONTROL PHASE II
TMP-23 - 28	TEMPORARY TRAFFIC CONTROL PHASE III
TMP-29	DETOUR - US 321
TMP-30 - 35	TEMPORARY TRAFFIC CONTROL PHASE I CROSS-SECTION DETAILS
TMP-36	TEMPORARY TRAFFIC CONTROL PHASE II CROSS-SECTION DETAILS
SD - 1	SPECIAL SIGN DESIGN

SHEET NO.
TMP-1

U-2211B

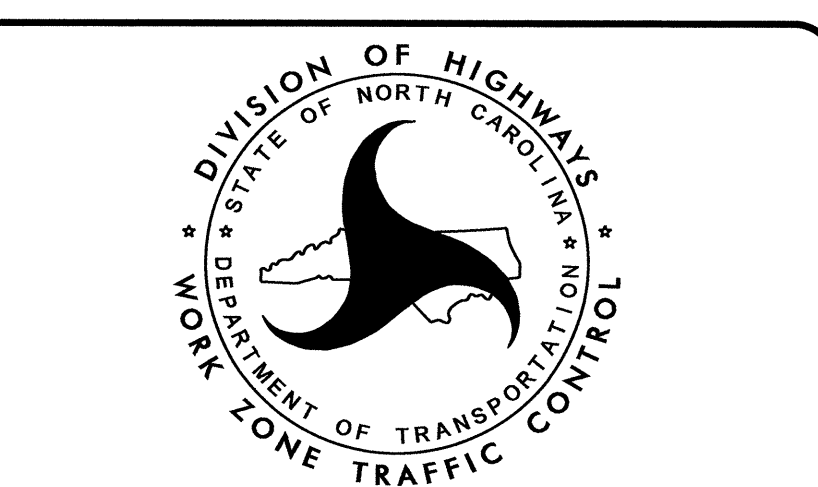
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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1580 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1580
1020 BIRCH RIDGE DRIVE, RALEIGH, NC 27610 (DELIVERY)
PHONE: (919) 250-4094 FAX: (919) 250-4098

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
G. L. GETTIER, P.E. TRAFFIC CONTROL PROJECT ENGINEER
J. W. WOOLARD, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
L. K. DONALDSON, P.E. TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: _____
DATE: 2/20/12

SEAL

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
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 BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.



TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

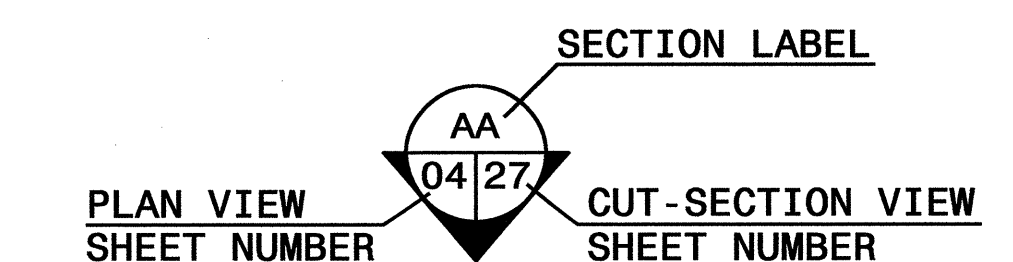
- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
PAINT (4")	
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PC	WHITE SKIP LINE
PD	2 FT. WHITE MINISKIP
PE	WHITE SOLID LANE LINE
PI	YELLOW DOUBLE CENTER
PAINT (8")	
PR	WHITE GORELINE
PS	WHITE DIAGONAL
PV	YELLOW DIAGONAL
PAINT (24")	
P4	WHITE STOPBAR
P5	WHITE CROSSWALK
COLD APPLIED PLASTIC (4")	
TYPE 4 - REMOVABLE TAPE	
CA	WHITE EDGELINE
CB	YELLOW EDGELINE
CC	10 FT. WHITE SKIP
CE	WHITE SOLID LANE LINE
CI	YELLOW DOUBLE CENTER



APPROVED:	DATE: 1/31/12			ROADWAY STANDARD DRAWINGS & LEGEND

MANAGEMENT STRATEGIES

US 321 CONSTRUCTION SUMMARY
 PROPOSED US 321 WILL BE CONSTRUCTED USING TEMPORARY PORTABLE CONCRETE BARRIER, TEMPORARY SHORING, AND TEMPORARY NIGHT TIME OFFSITE DETOUR TO PLACE BRIDGE GIRDERS AND REMOVE EXISTING BRIDGE.

PROPOSED -L- AND -Y- LINES
 PROPOSED -L- AND -Y- LINES OTHER THAN US 321 WILL BE CONSTRUCTED USING LANE CLOSURES WITH FLAGGERS, TEMPORARY SIGNALS, TRAFFIC SHIFTS AND ROAD CLOSURES WITH OFFSITE DETOURS.

GENERAL NOTES / LOCAL NOTES

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 UNDESIRED 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 ON HIBRITEN DR., NORWOOD ST., BERKLEY ST., AND US 321 DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

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 7:00 A.M. DECEMBER 31st TO 4:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 4:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 4:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 4:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 4:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 4:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 4:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 4:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 4:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR APPALACHIAN STATE UNIVERSITY HOME FOOTBALL GAMES AT US 321 NB BETWEEN THE HOURS OF 8:00 A.M. THE DAY OF THE GAME TO GAME TIME.

FOR APPALACHIAN STATE UNIVERSITY HOME FOOTBALL GAMES AT US 321 SB BETWEEN THE HOURS OF GAME TIME UNTIL 8:00 A.M. THE DAY AFTER THE GAME.

B) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	OPERATION AND DURATION
US 321 (-Y5-)	SUNDAY THROUGH SATURDAY 5:00 A.M. TO 12:00 A.M.	HANGING GIRDERS OR REMOVING EXISTING STRUCTURE 30 MIN

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- D) 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.

E) 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.

F) 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.

G) 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

H) 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.

I) 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) 100 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

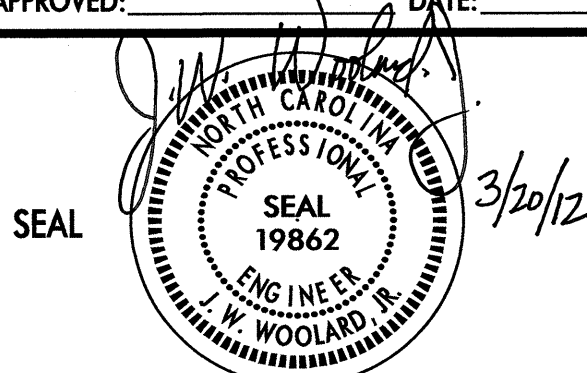
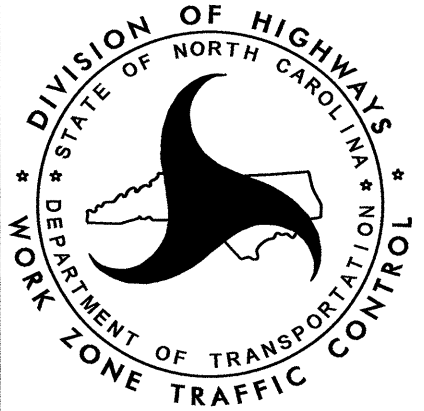
K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

L) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

M) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

APPROVED: _____ DATE: 3/20/12 		<h1 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h1>
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- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- O) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

- P) 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.

- Q) 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

- R) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ROADWAY	PAINT	TEMPORARY RAISED
BRIDGE DECK	COLD APPLIED PLASTIC TYPE 4 - REMOVABLE TAPE	TEMPORARY RAISED

- V) 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.
- W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- Y) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

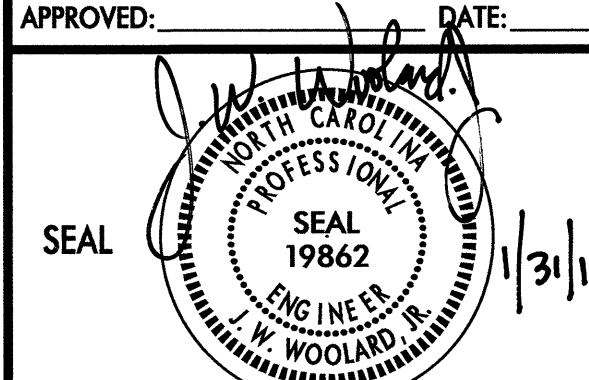
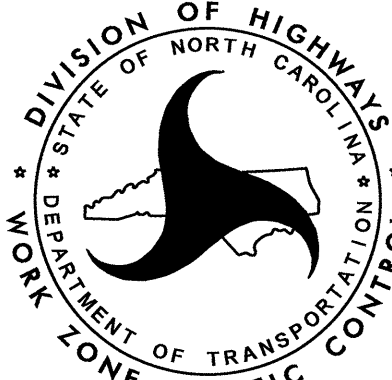
TEMPORARY / FINAL SIGNALS

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

MISCELLANEOUS

- AA) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 100 FT AND 200 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

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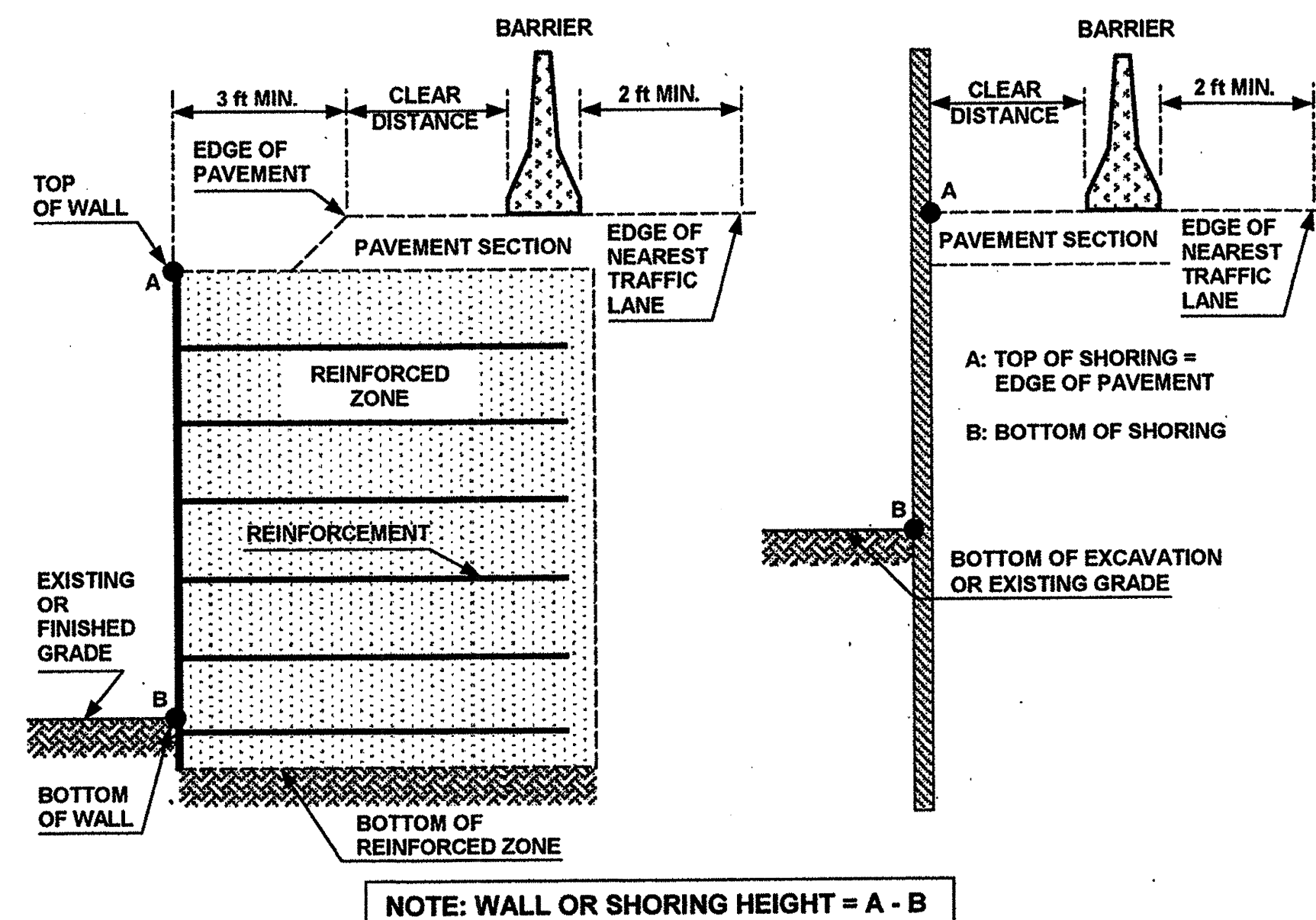


FIGURE A

NOTES

- REFER TO THE TRAFFIC CONTROL PLANS FOR SHORING LOCATIONS AND SOIL PARAMETERS.
- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR MORE INFORMATION ABOUT TEMPORARY SHORING, MEASUREMENT AND PAYMENT.
- PROVIDE PORTABLE CONCRETE BARRIER TO PROTECT TEMPORARY SHORING IF SHORING IS LOCATED WITHIN THE CLEAR ZONE AS DEFINED IN THE AASHTO ROADSIDE DESIGN GUIDE. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT UNIT FOR APPLICABLE PAVEMENT DESIGN).
- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED PCB, ANCHORED PCB OR AN OREGON BARRIER FROM THE TABLE SHOWN IN FIGURE B. FOR TRAFFIC LANES AND PORTABLE CONCRETE BARRIER LOCATED ABOVE AND BEHIND TEMPORARY SHORING, THE FOLLOWING ARE DEFINED AS:

CLEAR DISTANCE - HORIZONTAL DISTANCE FROM THE BACK FACE OF THE BARRIER TO THE EDGE OF PAVEMENT FOR TEMPORARY MSE WALL OR TO THE FACE OF NON-ANCHORED TEMPORARY SHORING AS SHOWN IN FIGURE A.

OFFSET - HORIZONTAL DISTANCE FROM THE FRONT FACE OF THE BARRIER TO CENTERLINE OF THE FURTHEST TRAFFIC LANE AS SHOWN IN FIGURE B FOR 3 TRAFFIC LANES.
- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET AN UNANCHORED PCB AGAINST THE TRAFFIC SIDE OF THE SHORING AND DESIGN SHORING FOR TRAFFIC IMPACT OR USE THE "SURCHARGE CASE WITH TRAFFIC IMPACT" FOR THE STANDARD TEMPORARY SHORING. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT UNIT FOR APPLICABLE PAVEMENT DESIGN).
- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- USE OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH DETAIL DRAWING AND SPECIAL PROVISION OBTAINED FROM: WORK ZONE TRAFFIC CONTROL UNIT WEB PAGE.
- UNLESS NOTED OTHERWISE ON THE PLANS, SET PORTABLE CONCRETE BARRIER WITH A MINIMUM DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A.
- FOR PORTABLE CONCRETE BARRIER ABOVE AND BEHIND TEMPORARY MSE WALLS, PROVIDE A MINIMUM DISTANCE OF 3 FT BETWEEN THE EDGE OF PAVEMENT AND THE WALL FACE AS SHOWN IN FIGURE A. IF THESE MINIMUM REQUIRED DISTANCES ARE NOT AVAILABLE, CONTACT THE ENGINEER.
- TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS. BARRIER DEFLECTIONS AND RESULTING MINIMUM REQUIRED CLEAR DISTANCES MIGHT VARY SIGNIFICANTLY FOR LARGER HEAVIER VEHICLES, RUNS OF BARRIER LESS THAN 200' IN LENGTH AND WET OR DRY PAVEMENT.

MINIMUM REQUIRED CLEAR DISTANCE, inches

Barrier Type	Pavement Type	Offset * ft	Design Speed, mph					
			<30	31-40	41-50	51-60	61-70	71-80
Unanchored PCB	Asphalt	<8	24	26	29	32	36	40
		8-14	26	28	31	35	38	42
		14-20	27	29	34	36	39	43
		20-26	28	31	35	38	40	44
		26-32	29	32	36	39	42	45
		32-38	30	34	38	41	43	46
		38-44	31	34	41	43	45	48
		44-50	31	35	41	43	46	49
		50-56	32	36	42	44	47	50
	>56	32	36	42	45	47	51	
	Concrete	<8	17	18	21	22	25	26
		8-14	19	20	23	25	26	29
		14-20	22	22	24	26	28	31
		20-26	23	24	26	27	30	34
		26-32	24	25	27	28	32	35
		32-38	24	26	27	30	33	36
		38-44	25	26	28	30	34	37
		44-50	26	26	28	32	35	37
50-56		26	26	28	32	35	38	
>56	26	27	29	32	36	38		
Anchored PCB or Oregon Barrier	Asphalt	All Offsets	24 for All Design Speeds					
Anchored PCB or Oregon Barrier	Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds					

* See Figure Below

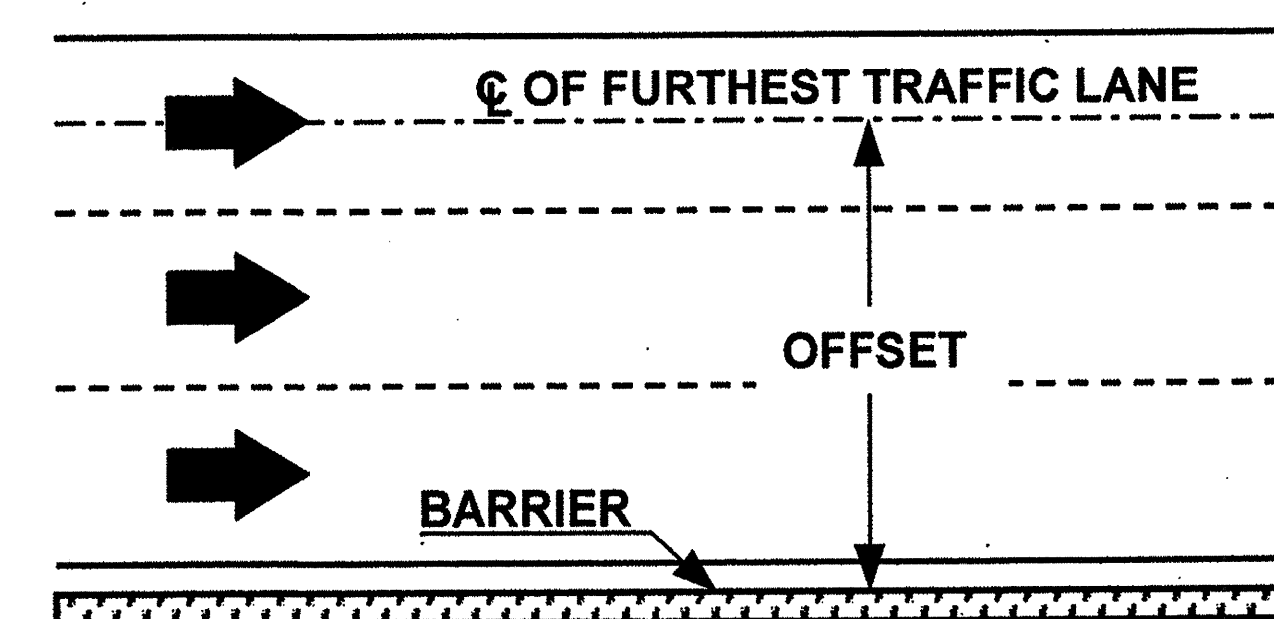
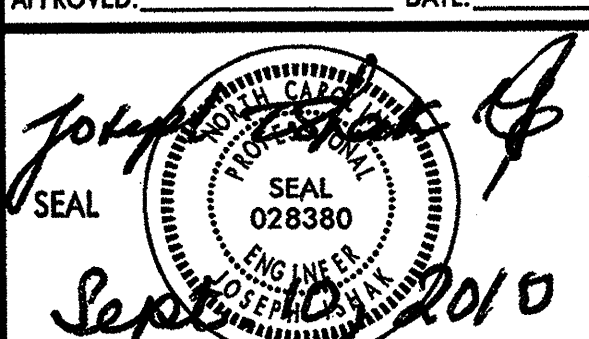
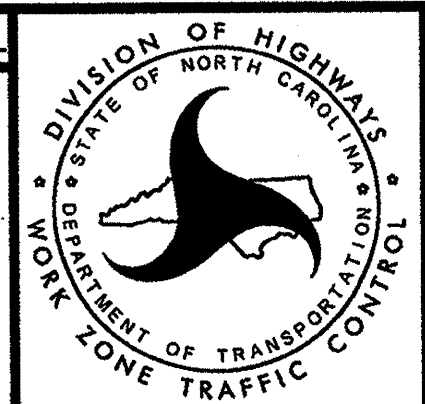
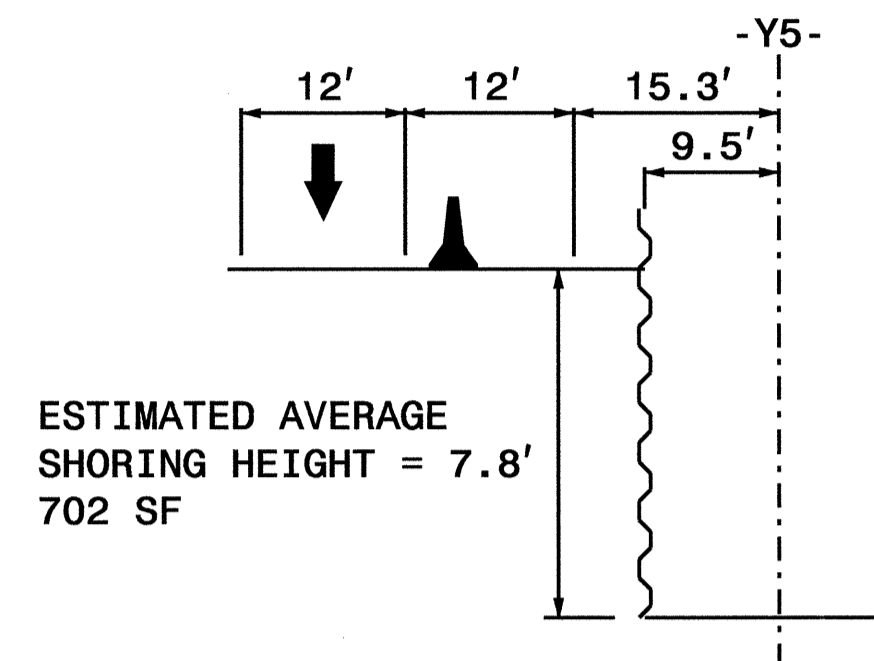


FIGURE B

APPROVED:  DATE: <i>Sept 10 2010</i>		PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
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TEMPORARY SHORING NO. 1



FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 24+80.00+/-Y5-, 9.5' LEFT OF -Y5-, TO STATION 25+70.00+/-Y5-, 9.5' LEFT OF -Y5-.

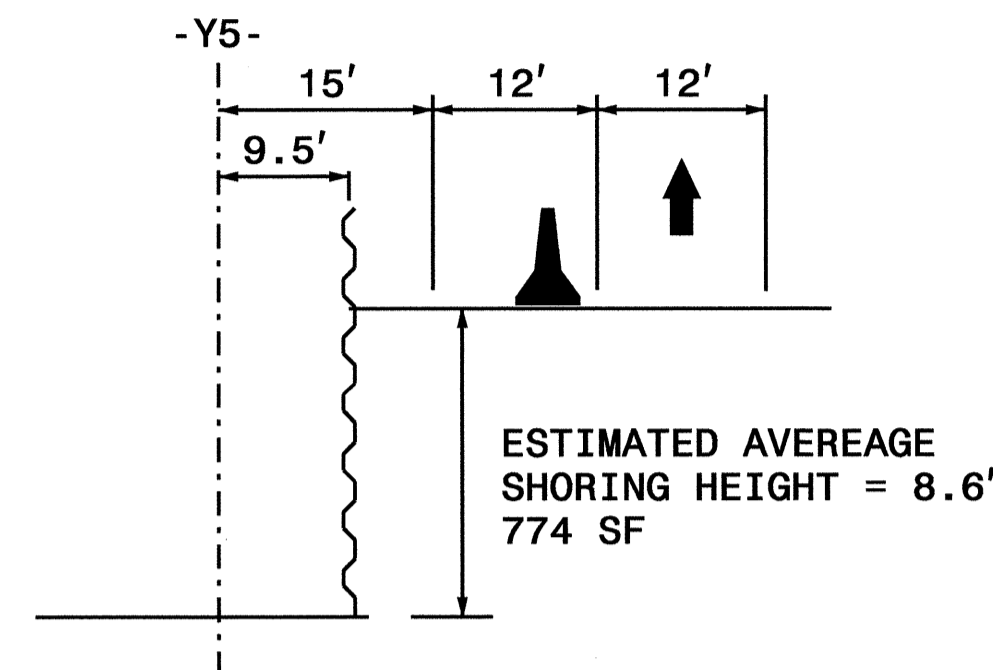
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION 24+80.00+/-Y5-, 9.5' LEFT OF -Y5-, TO STATION 25+70+/-Y5-, 9.5' LEFT OF -Y5-. SEE STANDARD DRAWING NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

DESIGN TEMPORARY SHORING FROM STATION 24+80.00+/-Y5-, 9.5' LEFT OF -Y5-, TO STATION 25+70.00+/-Y5-, 9.5' LEFT OF -Y5-. FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT, (λ) = 120 PCF
 FRICTION ANGLE, ϕ = 30 DEGREES
 COHESION, c = 0 PSF
 GROUNDWATER ELEVATION = 1266 FT.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 24+80.00+/-Y5-, 9.5' LEFT OF -Y5-, TO STATION 25+70.00+/-Y5-, 9.5' LEFT OF -Y5-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

TEMPORARY SHORING NO. 2



FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 24+80.00+/-Y5-, 9.5' RIGHT OF -Y5-, TO STATION 25+70.00+/-Y5-, 9.5' RIGHT OF -Y5-.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION 24+80.00+/-Y5-, 9.5' RIGHT OF -Y5-, TO STATION 25+70+/-Y5-, 9.5' RIGHT OF -Y5-. SEE STANDARD DRAWING NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

DESIGN TEMPORARY SHORING FROM STATION 24+80.00+/-Y5-, 9.5' RIGHT OF -Y5-, TO STATION 25+70.00+/-Y5-, 9.5' RIGHT OF -Y5-. FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT, (λ) = 120 PCF
 FRICTION ANGLE, ϕ = 30 DEGREES
 COHESION, c = 0 PSF
 GROUNDWATER ELEVATION = 1266 FT.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 24+80.00+/-Y5-, 9.5' RIGHT OF -Y5-, TO STATION 25+70.00+/-Y5-, 9.5' RIGHT OF -Y5-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

NOTE: THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO WZTC ON NOVEMBER 4, 2011 AND SEALED BY A PROFESSIONAL ENGINEER, JOHN S. W. FARGHER, III, P.E. 023480.

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED:	DATE: 1/31/12		<p>TEMPORARY SHORING DATA</p>
SEAL			

NOTE: MAINTAIN TRAFFIC FOR ALL DRIVEWAYS AND SECONDARY ROADS THROUGHOUT THE PROJECT FOR THE DURATION OF THE PROJECT.

PHASE I

STEP 1

PLACE ADVANCED WORK ZONE WARNING SIGNS PER RSD 1101.01.

STEPS 2 THROUGH 6 CAN BE COMPLETED CONCURRENTLY. ROAD CLOSURES DESCRIBED IN STEP 2 AND STEP 7 SHALL NOT BE COMPLETED CONCURRENTLY.

STEP 2

USING RSD 1101.03 SHEET 1 OF 9 AND TMP-04 DETAIL 1, CLOSE -Y4- (BERKLEY ST). WORKING IN A CONTINUOUS MANNER, CONSTRUCT CULVERT AND REALIGNMENT OF -Y4- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-04 DETAIL 2. PLACE TEMPORARY PAVEMENT MARKING ON -Y4- AS SHOWN ON TMP-04 DETAIL 2. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES USED TO CLOSE -Y4- AND OPEN TO TRAFFIC.

STEP 3

WORKING IN A CONTINUOUS MANNER, USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED:

- A. CONSTRUCT THE RIGHT SIDE OF -Y3REV- (BERKLEY ST) UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM TIE-IN OF -Y11- TO -Y3REV- STA. 14+31.20 AS SHOWN ON TMP-07 DETAIL 8. ON -Y3REV- AND -Y2-, PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-07 DETAIL 9 AND TEMPORARY RAISED MARKERS AS SHOWN ON RSD 1250.01 SHEET 1 OF 3. PLACE TRAFFIC INTO NEW TEMPORARY PATTERN.
- B. CONSTRUCT LEFT SIDE OF -Y3REV- (BERKLEY ST) INCLUDING TIE-INS OF -Y2- AND -Y11- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-07 DETAIL 9.
- C. ON -Y3REV- AND -Y2-, PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-22, TEMPORARY RAISED MARKERS AS SHOWN ON RSD 1250.01 SHEET 1 OF 3 AND PLACE TRAFFIC INTO NEW TEMPORARY PATTERN. FINAL SIGNAL LOCATION AS SHOWN IN SIGNAL PLANS FOR INTERSECTION OF -Y3REV- AND -Y11-.

STEP 4

- A. USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, CONSTRUCT LEFT SIDE OF -Y11- (NORWOOD ST) UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE, FROM TIE-IN AT -L- (HIBRITEN DR) TO -Y11- STA. 28+35 AS SHOWN ON TMP-05, AND FROM TIE-IN OF -Y3REV- TO -Y11- STA. 21+92+/- AS SHOWN ON TMP-05 AND TMP-07 DETAIL 8.
- B. USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, CONSTRUCT RIGHT SIDE OF -Y11- (NORWOOD ST) UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM -Y14- TO -Y11- STA. 20+41+/- AS SHOWN ON TMP-07 DETAIL 9, AND FROM -Y11- STA. 25+21+/- TO -Y11- STA. 28+35+/- AS SHOWN ON TMP-06 DETAIL 7.

STEP 5

USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, CONSTRUCT THE FOLLOWING UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE:

- RIGHT SIDE OF -L- FROM TIE-IN OF -Y11- TO -L- STA. 47+75+/- AS SHOWN ON TMP-05, TMP-08, TMP-12, AND TMP-13.
- LEFT SIDE OF -L- FROM -L- STA. 45+84+/- TO -L- STA. 51+25+/- AS SHOWN ON TMP-13.
- DR3- INCLUDING TIE-IN OF -DR3- INTO EXISTING HIBRITEN DR SHOWN ON TMP-08.
- BEGIN LOOPS AND RAMPS -RPB-, -LPB-, -RPC-, AND -LPC- AS SHOWN ON TMP-08, TMP-09, TMP-12.

STEP 6

- A) USING TMP-08 THROUGH TMP-11 CLOSE INSIDE LANES OF -Y5- (US 321) USING PORTABLE CONCRETE BARRIER, TRAFFIC CONTROL DEVICES, TEMPORARY PAVEMENT MARKINGS SHOWN, AND TEMPORARY RAISED MARKERS USING RSD 1250.01 SHEET 1 OF 3. REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS AND MARKERS AND PLACE TRAFFIC INTO NEW PATTERN.
- B) CONSTRUCT MEDIAN AND INSIDE SHOULDERS OF -Y5- (US 321) UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-08, TMP-09 AND TMP-11. USING TEMPORARY SHORING AS SHOWN CONSTRUCT CENTER BRIDGE SUPPORTS.

- C) USING TMP-14 THROUGH TMP-16, CLOSE OUTER LANES OF -Y5- BY RESETTING PORTABLE CONCRETE BARRIER AND USING TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS AS SHOWN, AND TEMPORARY RAISED MARKERS USING RSD 1250.01 SHEET 1 OF 3 REMOVING CONFLICTING EXISTING PAVEMENT MARKINGS AND MARKERS. BEGIN CONSTRUCTION OF OUTSIDE SHOULDERS, RAMP AND LOOP TIE-INS UP TO, BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-14 THROUGH TMP-16.

STEP 7

USING RSD 1101.03 SHEET 1 OF 9 AND TMP-06 DETAILS 4 & 6, CLOSE -Y4- (BERKLEY ST). CONSTRUCT TIE-IN OF -Y4- TO -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-06 DETAIL 5 AND TEMPORARY RAISED MARKERS USING RSD 1250.01 SHEET 1 OF 3. REMOVE TRAFFIC CONTROL DEVICES USED TO CLOSE -Y4- AND OPEN -Y4- TO TRAFFIC.

STEP 8

PLACE GIRDERS OF NEW BRIDGE ON -L- BY USING TEMPORARY DETOUR SHOWN ON TMP-29 AND USING TMP-29 AND RSD 1101.03 SHEETS 1, 2 AND 7 OF 9 FOR PLACEMENT OF TRAFFIC CONTROL DEVICES TO REROUTE THROUGH TRAFFIC ON EXISTING US 321.

PHASE II

COMPLETE THE WORK OF PHASE II STEPS 1 AND 2 IN 120 DAYS. SEE CONTRACT TIME AND LIQUIDATED DAMAGES)

ICT - 120 DAYS

STEP 1

USING RSD 1101.03 SHEET 1 OF 9, TMP-17 AND TMP-17A, CLOSE EXISTING HIBRITEN DR AND STARCROSS RD AS SHOWN. WORKING IN A CONTINUOUS MANNER, CONSTRUCT -Y9-, INCLUDING CULVERT, AND -L- FROM -L- STA. 47+75 TO -L- STA. 56+50 INCLUDING TIE-IN OF -Y10- INTO -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-17. MAINTAIN ACCESS TO RESIDENCES ON -Y10-.

STEP 2

USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-18 THROUGH TMP-21 AND TEMPORARY RAISED MARKERS USING RSD 1250.01 SHEET 1 OF 3 REMOVING CONFLICTING PAVEMENT MARKINGS AS REQUIRED. SEE SIGNAL PLANS FOR PLACEMENT OF TEMPORARY SIGNAL AT INTERSECTION OF -L- AND -Y11-. PLACE TRAFFIC INTO NEW TRAFFIC PATTERN.

STEP 3

- CLOSE EXISTING HIBRITEN DR TO TRAFFIC AS SHOWN ON TMP-20 USING SHEET TMP-20 AND RSD 1101.03 SHEETS 1 AND 2 OF 9.
- CONSTRUCT -SR1- AND -DR2- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-20.
- USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, CONSTRUCT LEFT SIDE OF -L- FROM -L- STA. 42+94+/- TO -L- STA. 45+84+/- AS SHOWN ON TMP-20 AND TMP-21.
- USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, BEGIN CONSTRUCTION OF LEFT SIDE OF -L- FROM TIE-IN AT -Y11- TO -L- STA. 25+00+/- AS SHOWN ON TMP-18 AND TMP-19.

STEP 4

USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, PLACE TEMPORARY PAVEMENT MARKINGS ON SR1 AS SHOWN ON TMP-20, DETAIL 28, TEMPORARY RAISED MARKERS USING RSD 1250.01 SHEET 1 OF 3, REMOVE TRAFFIC CONTROL DEVICES USED TO CLOSE EXISTING HIBRITEN RD AND -SR1- TO TRAFFIC AND PLACE TRAFFIC INTO NEW PATTERN.

STEP 5

USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, CLOSE EXISTING -Y3- (BERKLEY ST) AS SHOWN ON TMP-22 AND RSD 1101.02 SHEETS 1 AND 2 OF 9. COMPLETE CONSTRUCTION OF -L- FROM TIE-IN AT -Y11- TO -L- 28+00+/- INCLUDING TIE-IN OF -Y3-. REMOVE TRAFFIC CONTROL DEVICES USED TO CLOSE -Y3- TO TRAFFIC AND OPEN TO TRAFFIC.

STEP 6

USING TYPE III BARRICADE CLOSE EXISTING BRIDGE TO TRAFFIC. REMOVE EXISTING BRIDGE STRUCTURE USING DETOUR SHOWN ON TMP-29 TO REROUTE THROUGH TRAFFIC ON US 321. USE TMP-29 AND RSD 1101.03 SHEETS 1, 2 AND 7 OF 9 TO REROUTE EXISTING US 321 TRAFFIC.

STEP 7

COMPLETE CONSTRUCTION OF -Y5-, LOOPS AND RAMPS. USING RSD 1101.02 SHEET 9 OF 15 AS NEEDED, REMOVE TRAFFIC CONTROL DEVICES AND PORTABLE CONCRETE BARRIER ON -Y5-, PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-24, TMP-25, TMP-27 AND TMP-28, AND TEMPORARY RAISED MARKERS USING RSD 1250.01 SHEET 1 OF 3, REMOVING CONFLICTING PAVEMENT MARKINGS WHERE REQUIRED. KEEP EXIT LANES, LOOPS AND RAMPS CLOSED USING DRUMS AND TYPE III BARRICADES USING RSD 1101.04 SHEET 1 OF 1 TO CLOSE SHOULDER PRECEDING EXIT LANES.

PHASE III

STEP 1

USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-23 THROUGH TMP-26 AND PLACE TRAFFIC INTO NEW TRAFFIC PATTERN SHOWN. INSTALL FINAL TRAFFIC SIGNALS AS SHOWN IN SIGNAL PLANS. OPEN RAMPS AND LOOPS TO TRAFFIC.

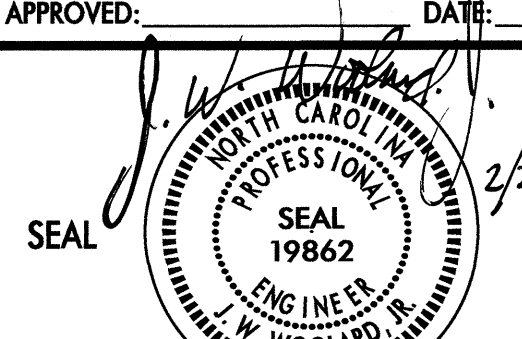
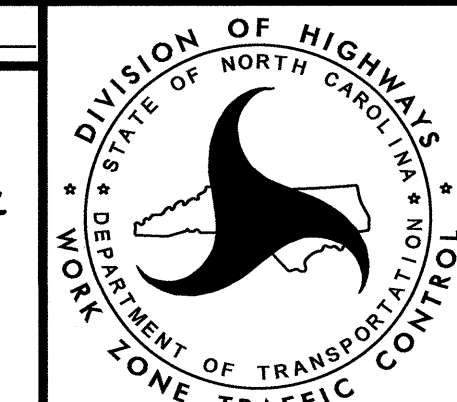
STEP 2

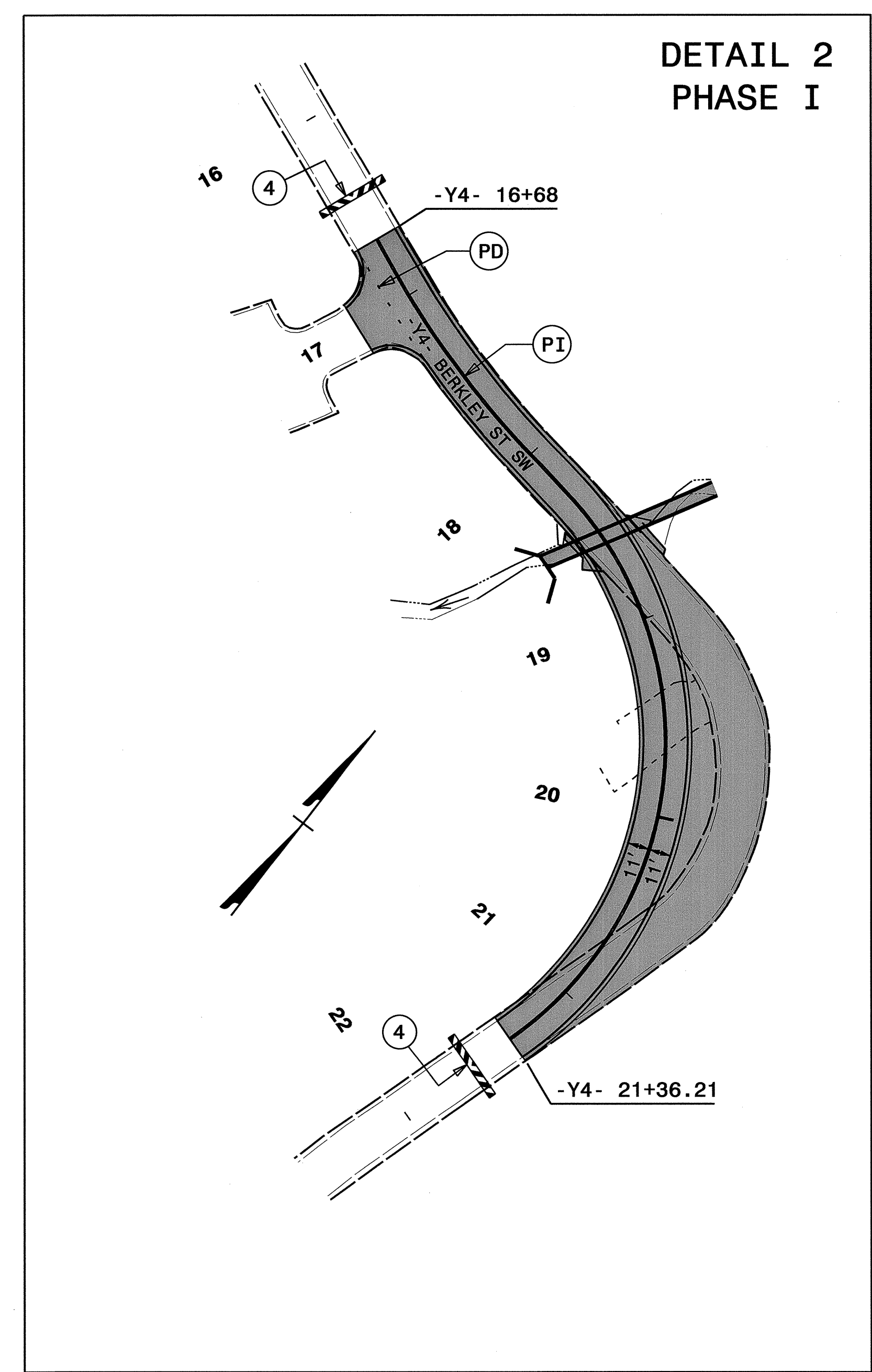
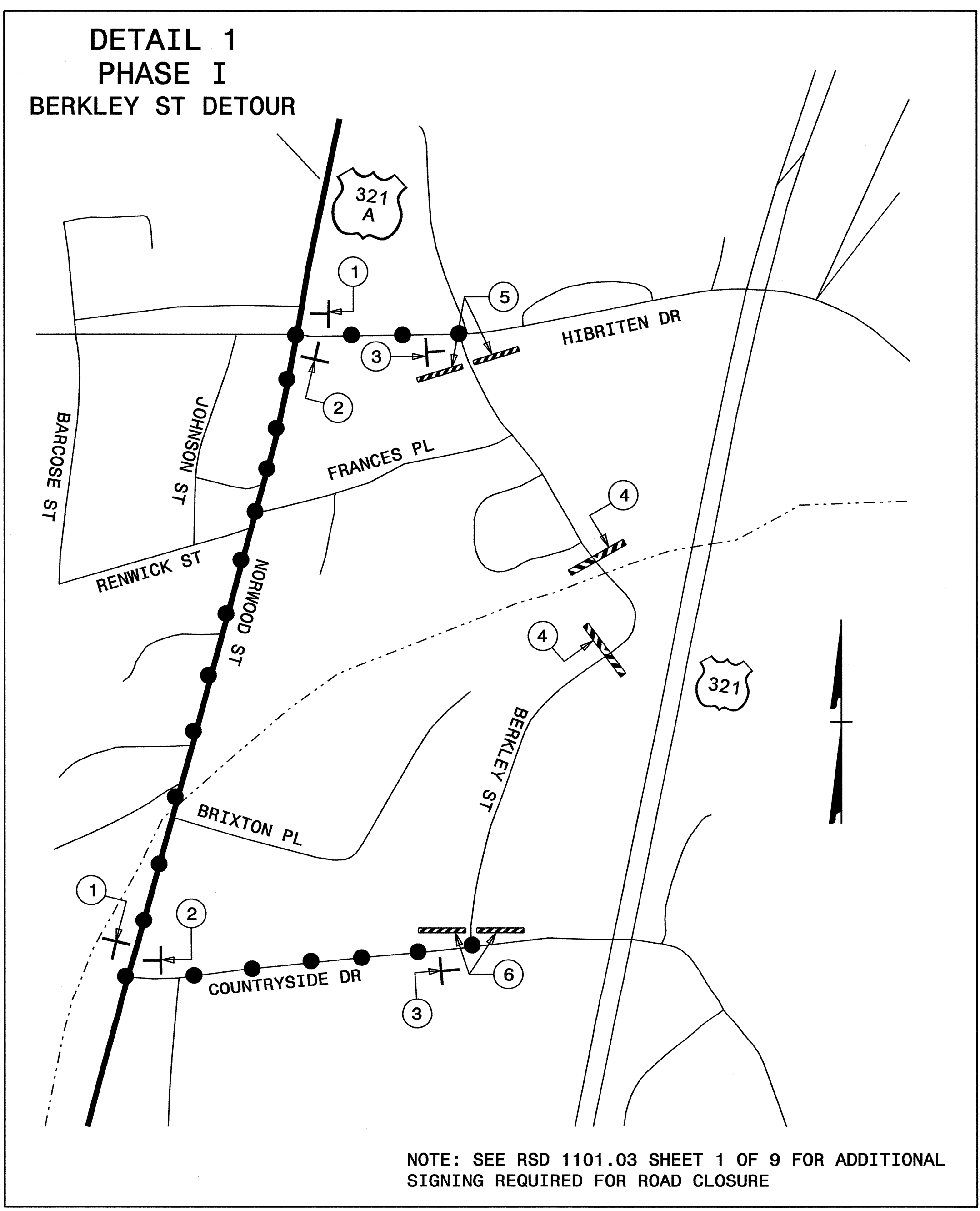
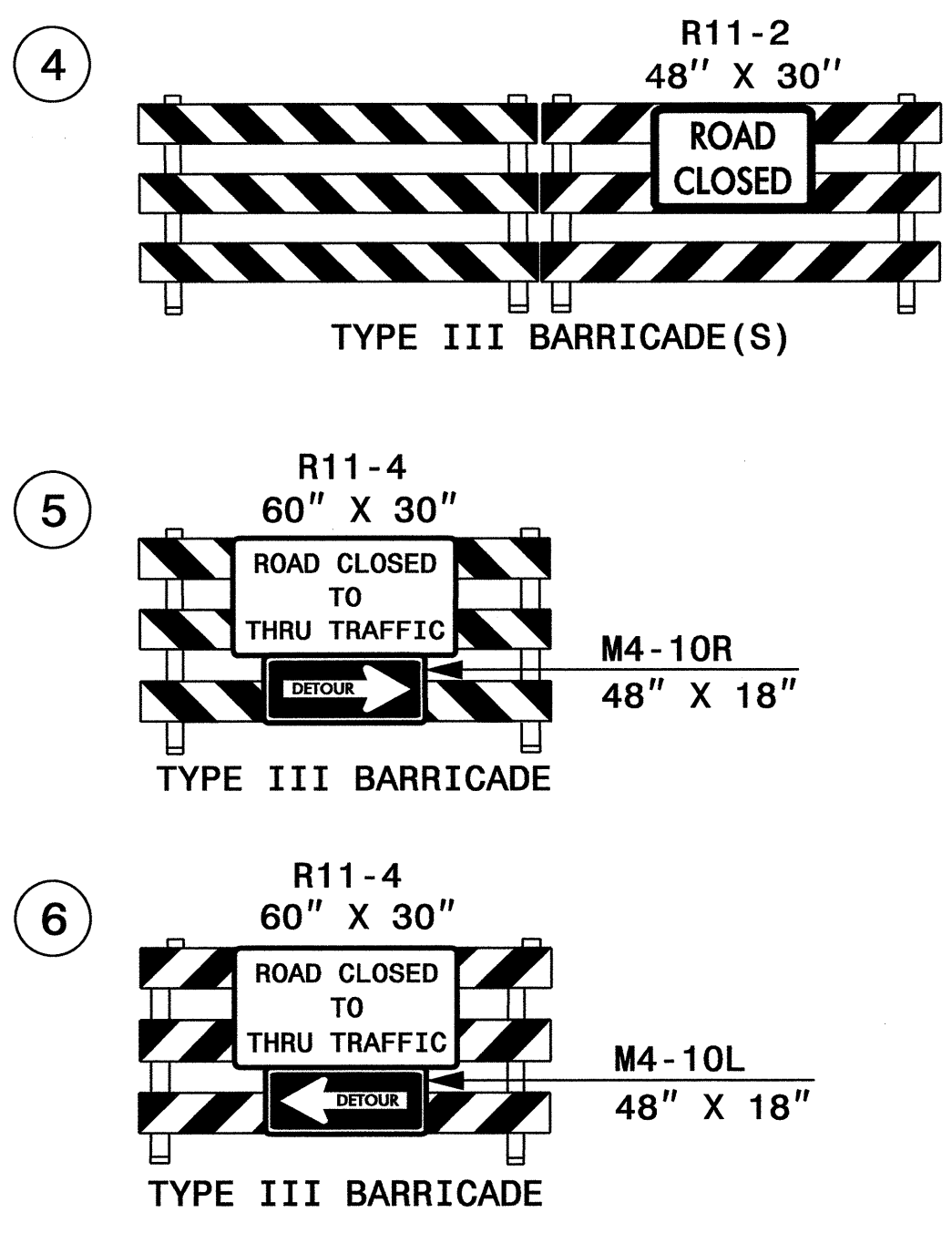
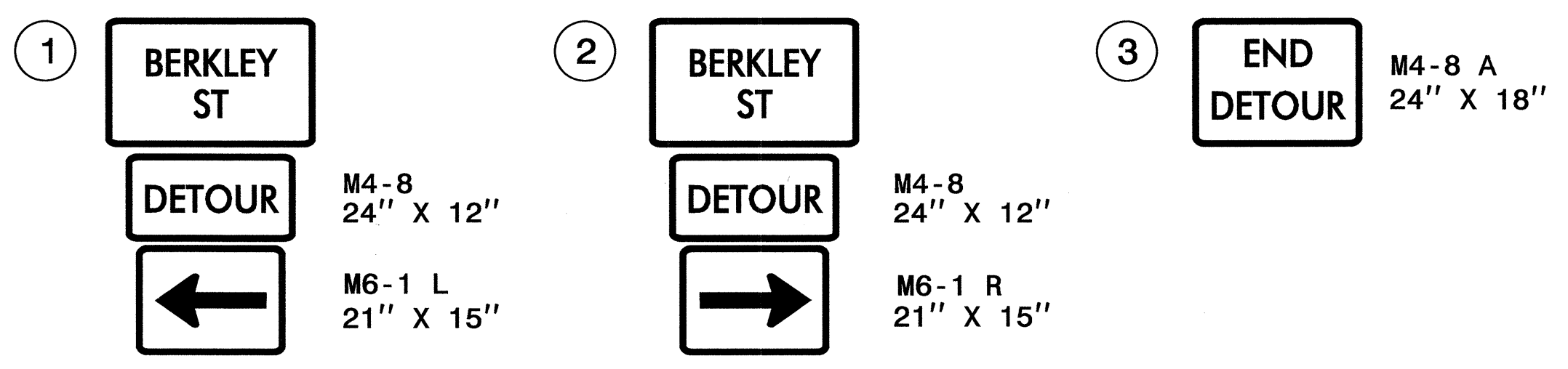
USING RSD 1101.02 SHEET 3 OF 15 AS NEEDED, CONSTRUCT MONOLITHIC ISLANDS AS SHOWN ON TMP-23 THROUGH TMP-26.

STEP 3

USING RSD 1101.02 SHEETS 1 AND 3 OF 15, AND FLAGGERS AS NEEDED, CONSTRUCT FINAL LAYER OF SURFACE COURSE. PLACE FINAL PAVEMENT MARKINGS AND MARKERS AS SHOWN IN THE FINAL PAVEMENT MARKING PLANS. REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

21-FEB-2012 07:40 \\dot\dfsroot\01\proj\TIP\Projects-U\U2211B\Traffic\TrafficControl\TCP\U2211B-Tc-TMP-TMP-03-PHASING.dgn jwoolard AT TE244740

APPROVED:  DATE: 2/21/12		<h2>TEMPORARY TRAFFIC CONTROL PHASING</h2>
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SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

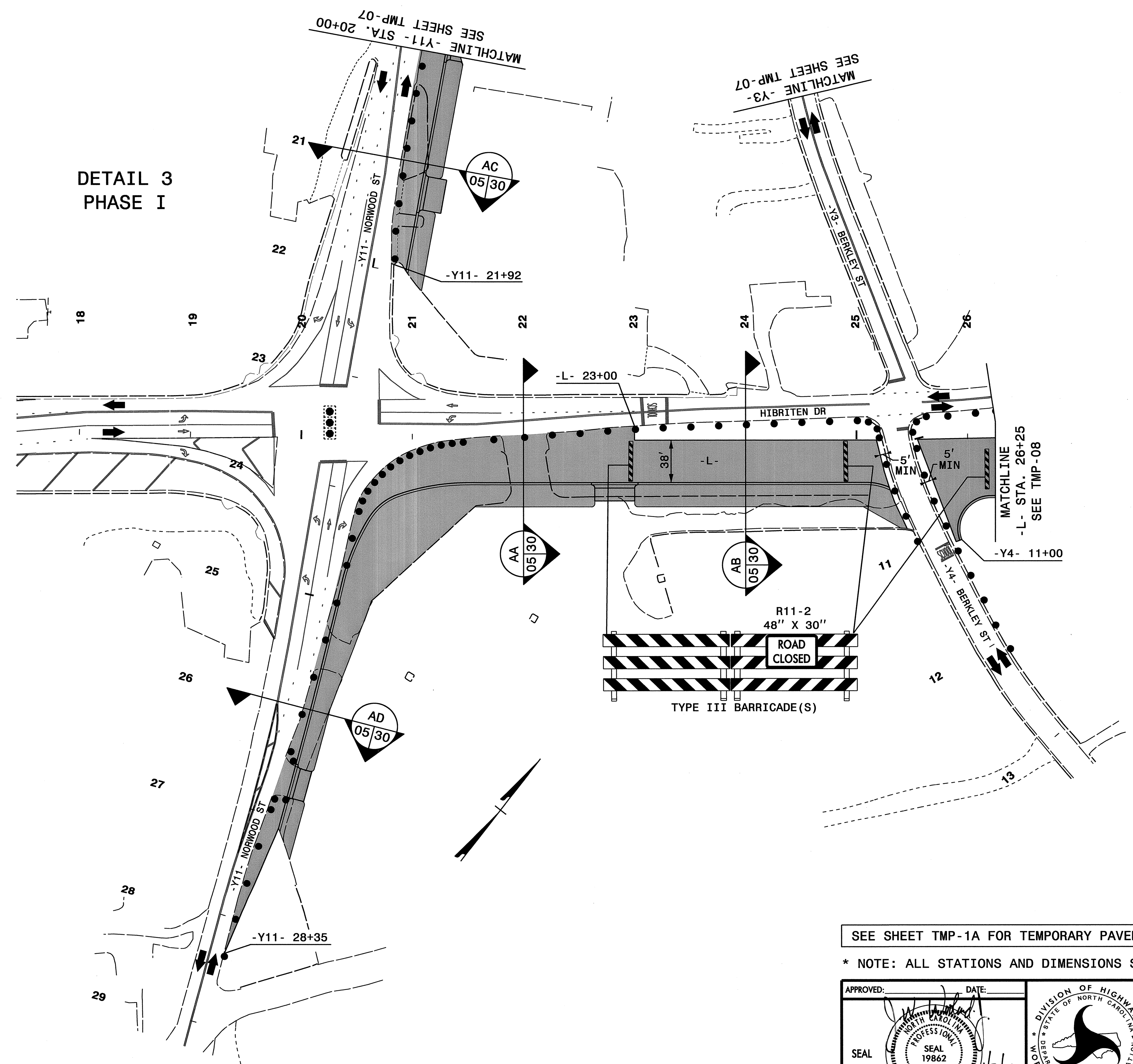
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SEAL

PHASE I
DETAILS 1 - 2

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DETAIL 3
PHASE I



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

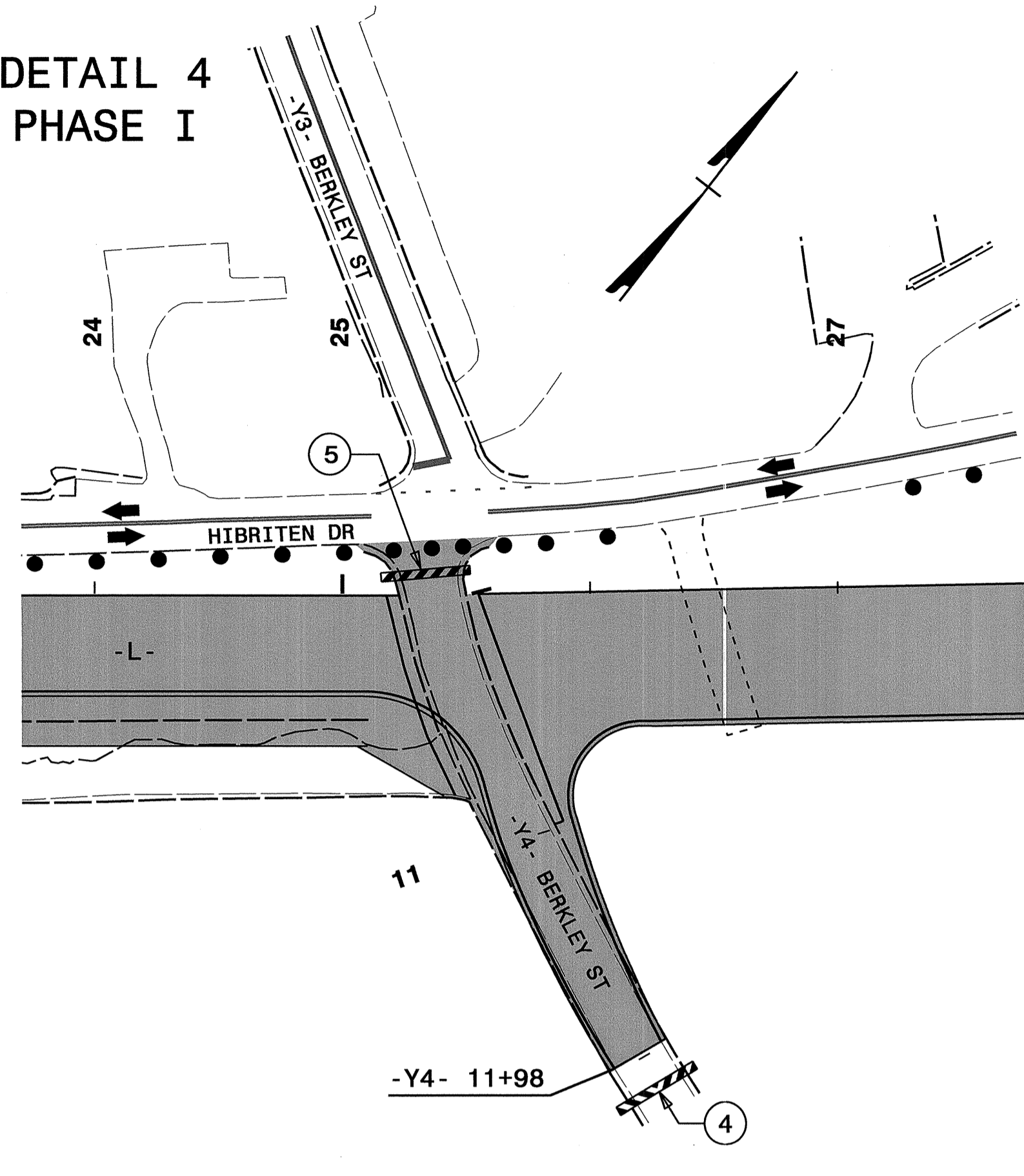
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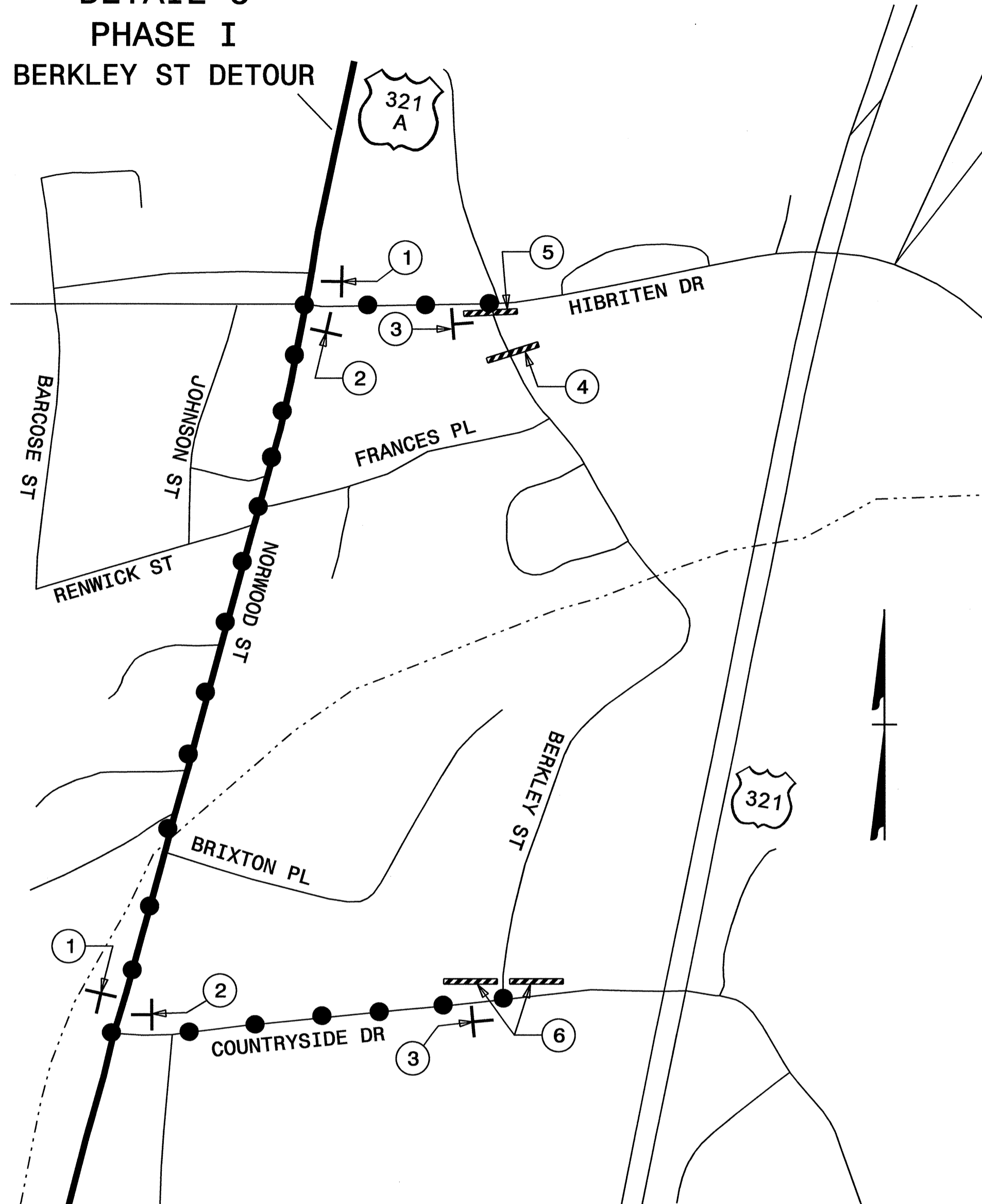
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DETAIL 3

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 AT TE237459
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DETAIL 4
PHASE I

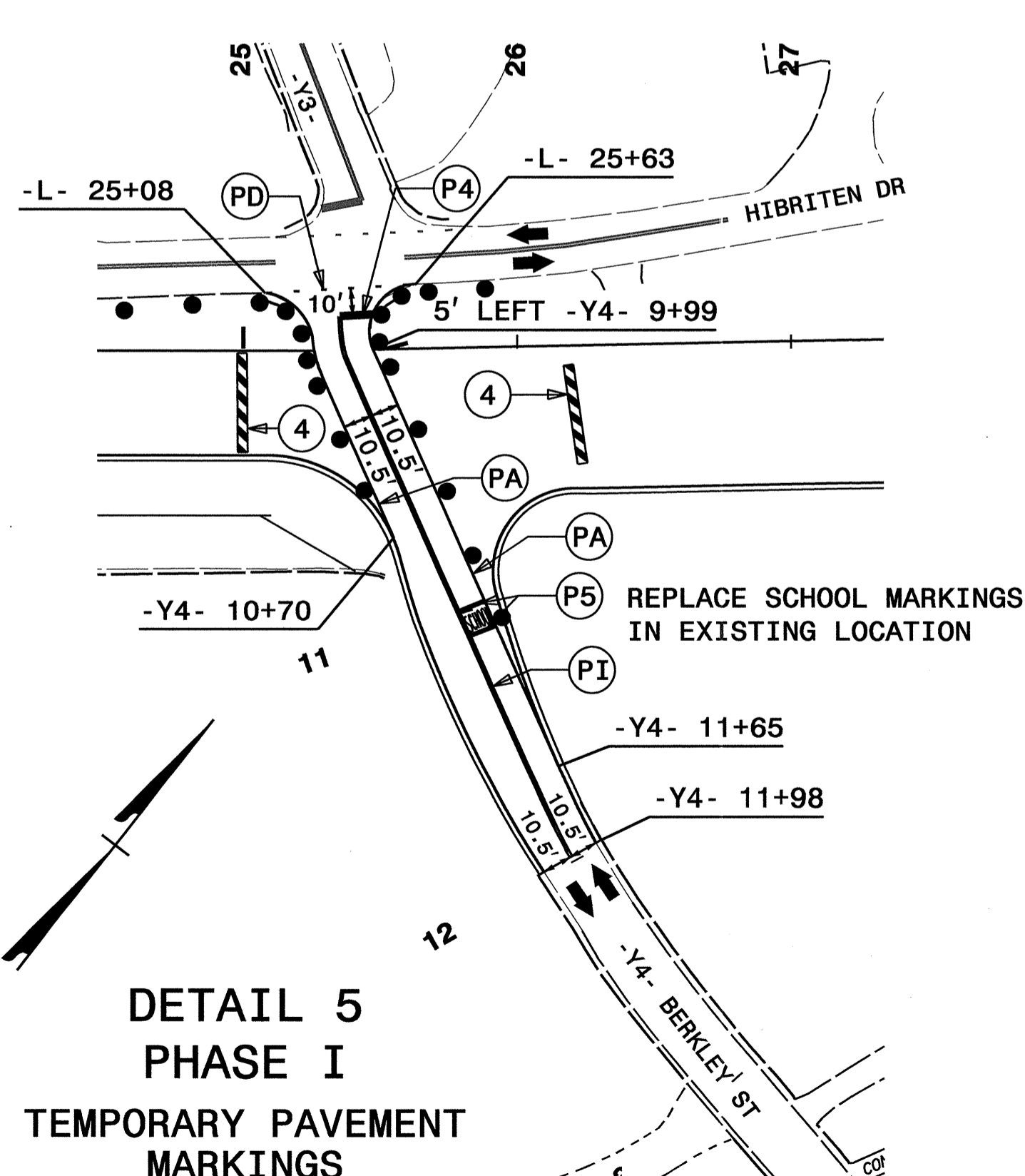
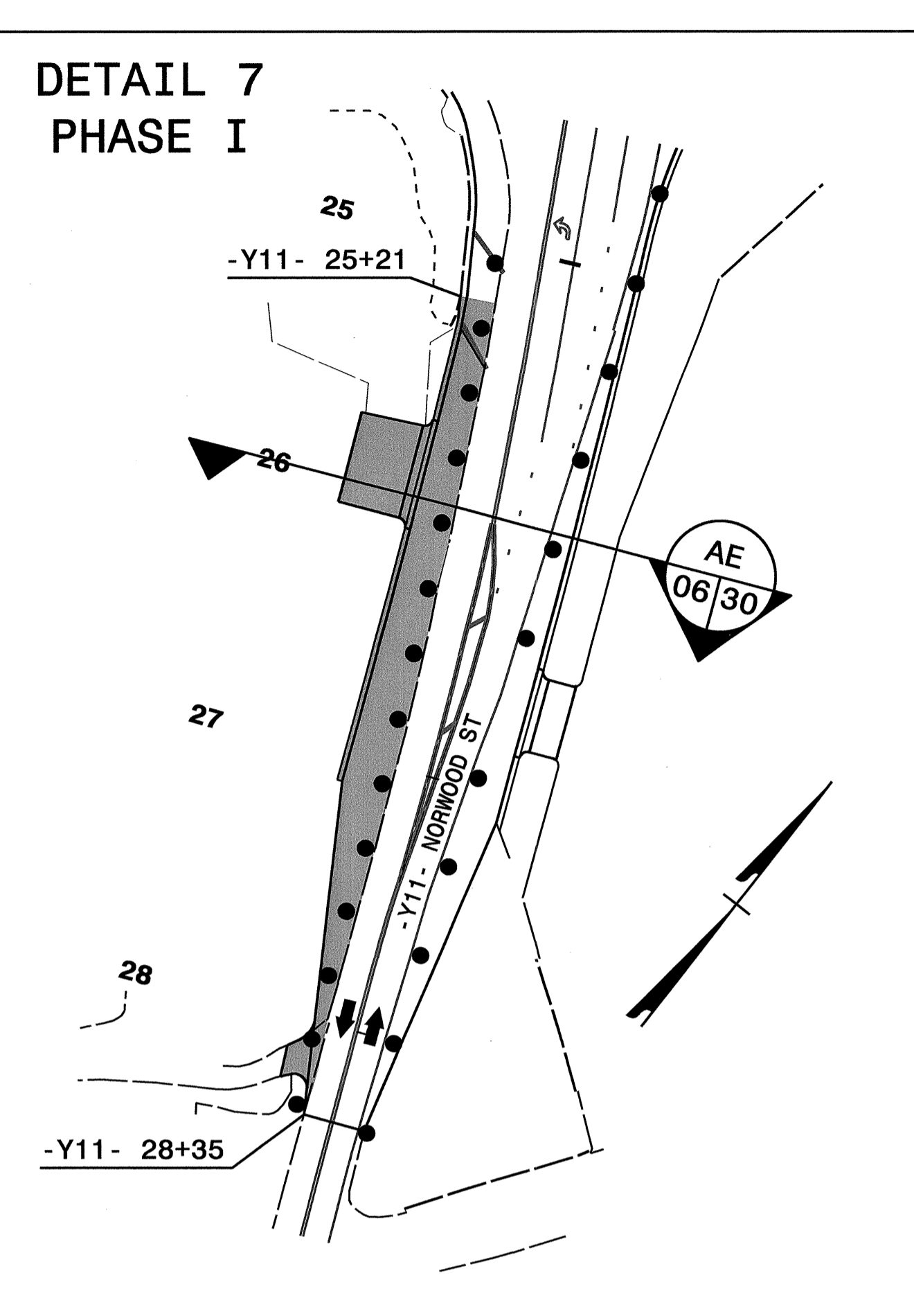


DETAIL 6
PHASE I
BERKLEY ST DETOUR

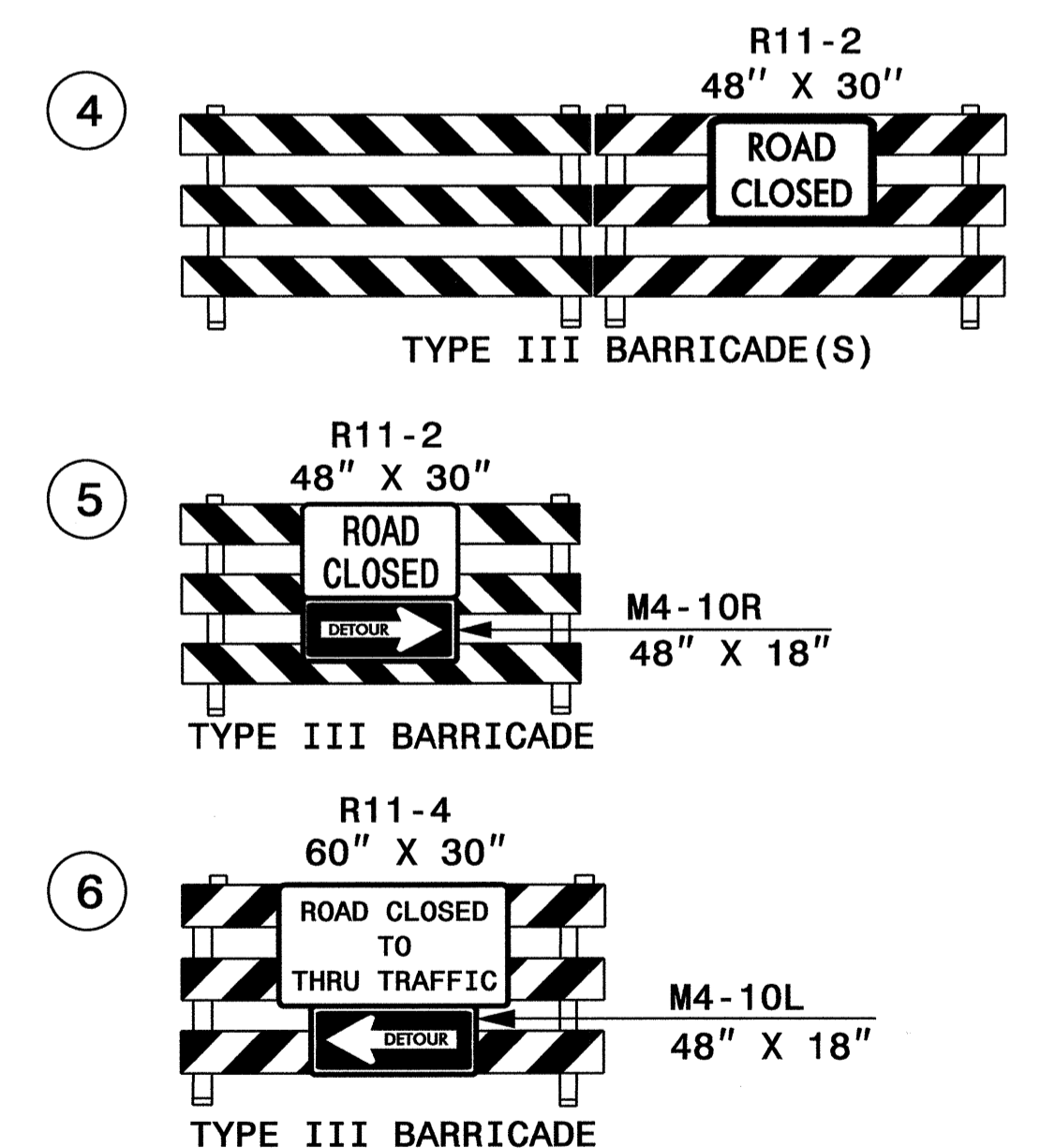
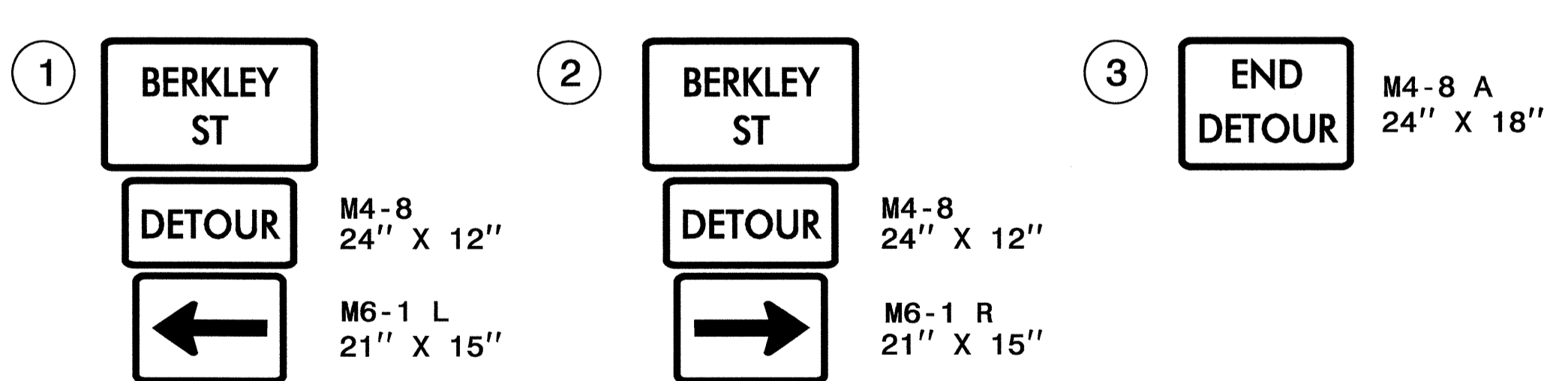


NOTE: SEE RSD 1101.03 SHEETS 1 AND 2 OF 9 FOR ADDITIONAL SIGNING REQUIRED FOR ROAD CLOSURE

DETAIL 7
PHASE I



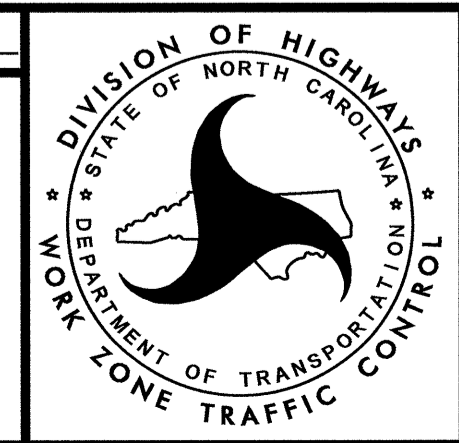
DETAIL 5
PHASE I
TEMPORARY PAVEMENT
MARKINGS



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

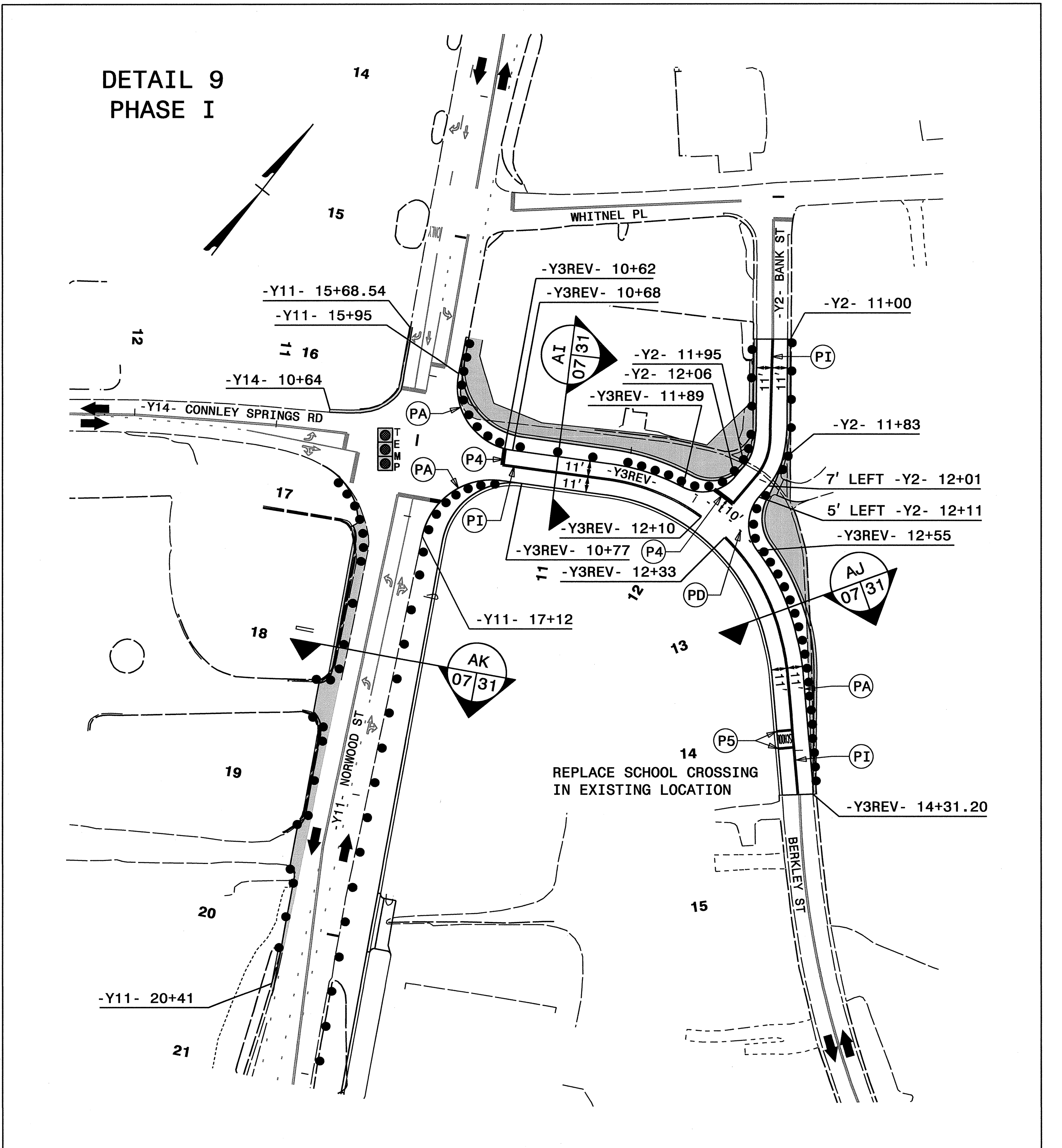
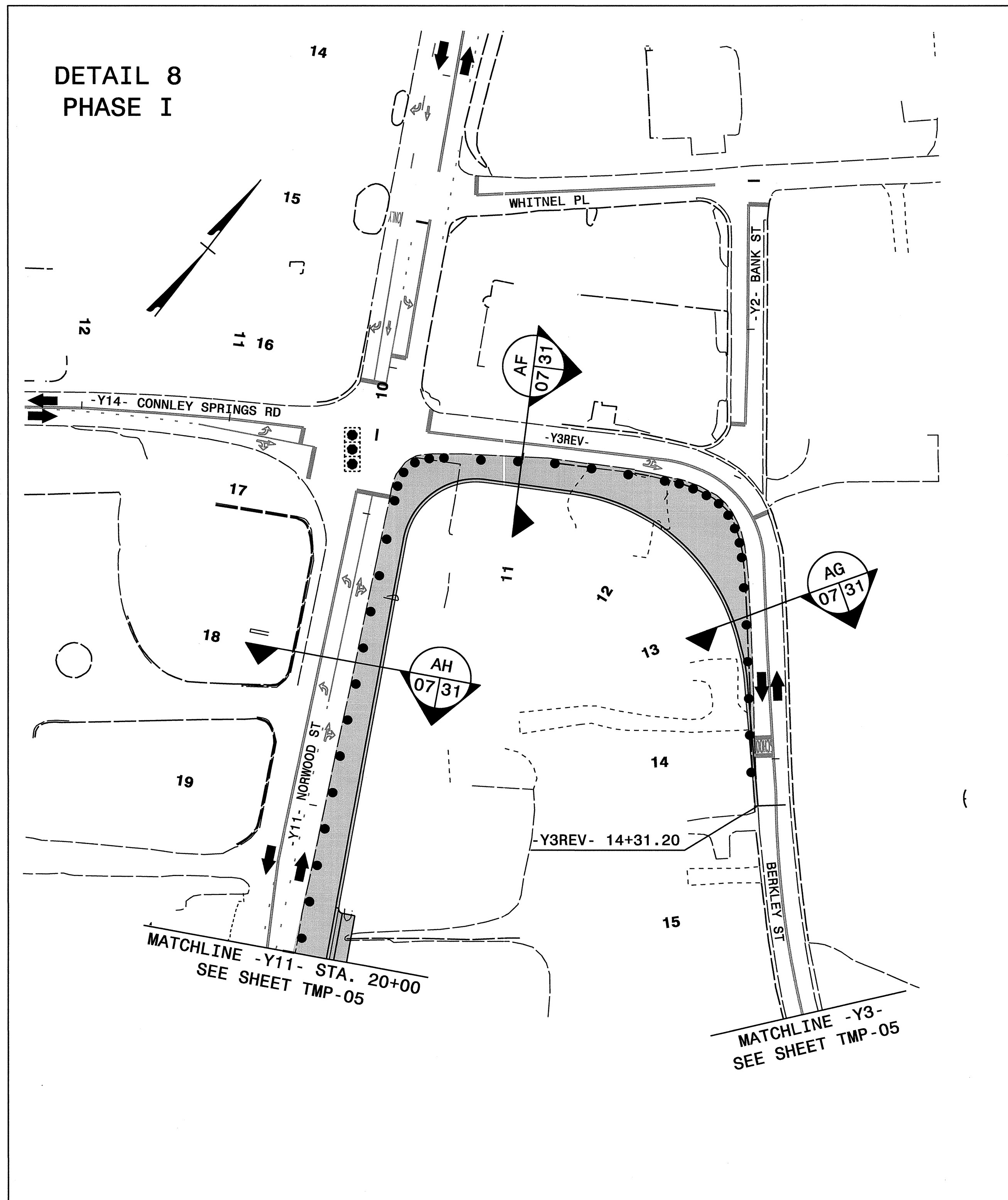
* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: [Signature] DATE: 1/31/12
SEAL: PROFESSIONAL ENGINEER SEAL 19862
W. WOOLARD, INC.



PHASE I
DETAILS 4 - 7

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SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

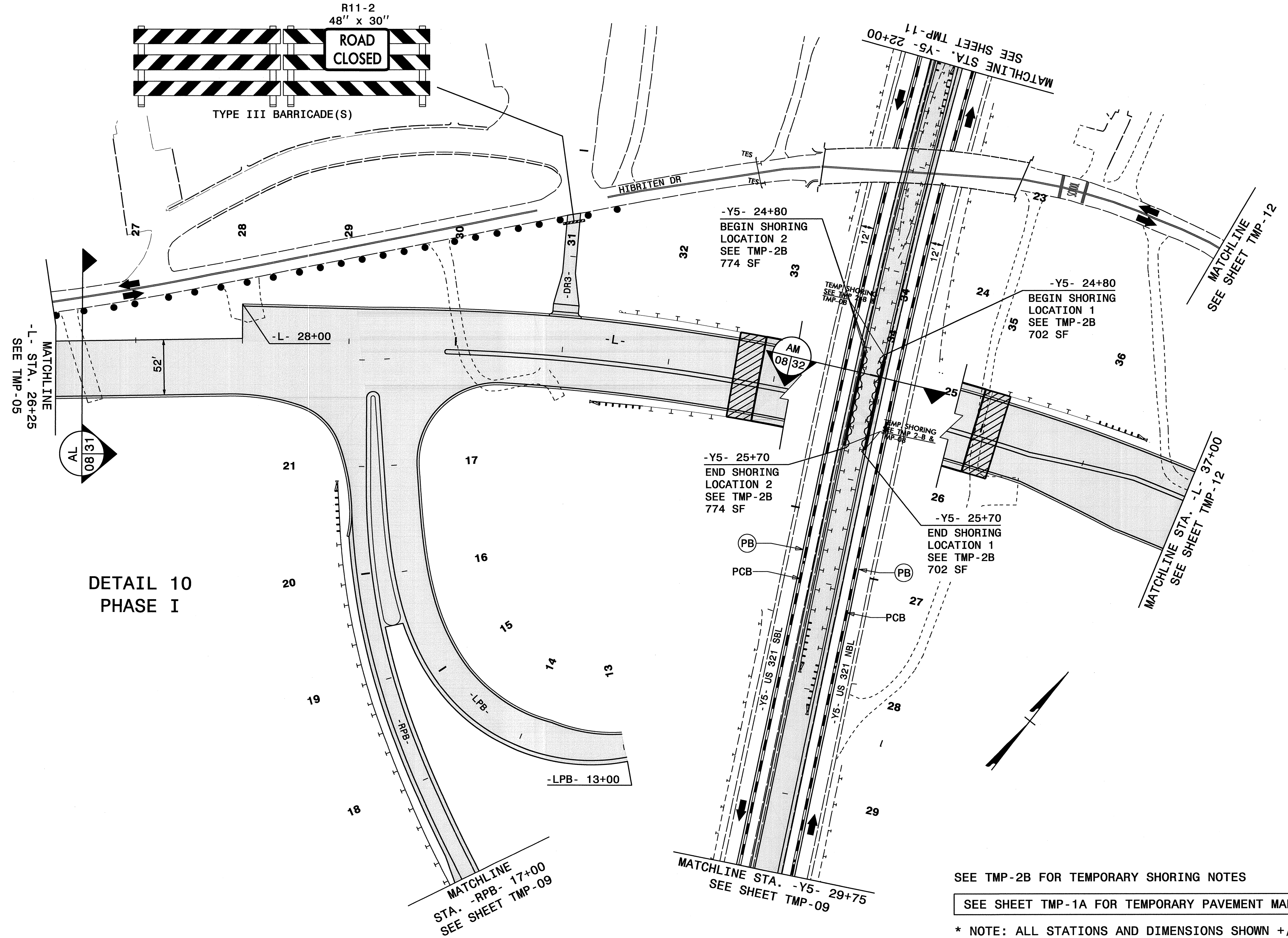
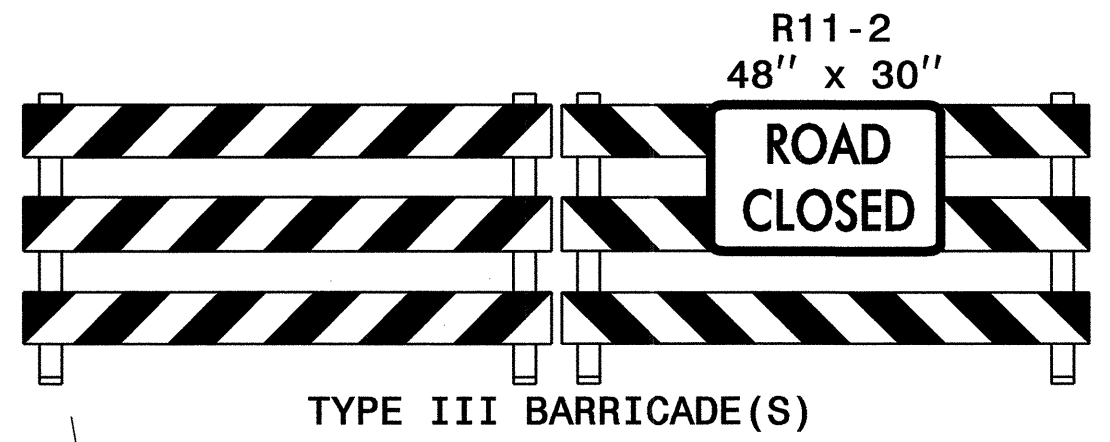
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SEAL

1/31/12

PHASE I
DETAILS 8 - 9

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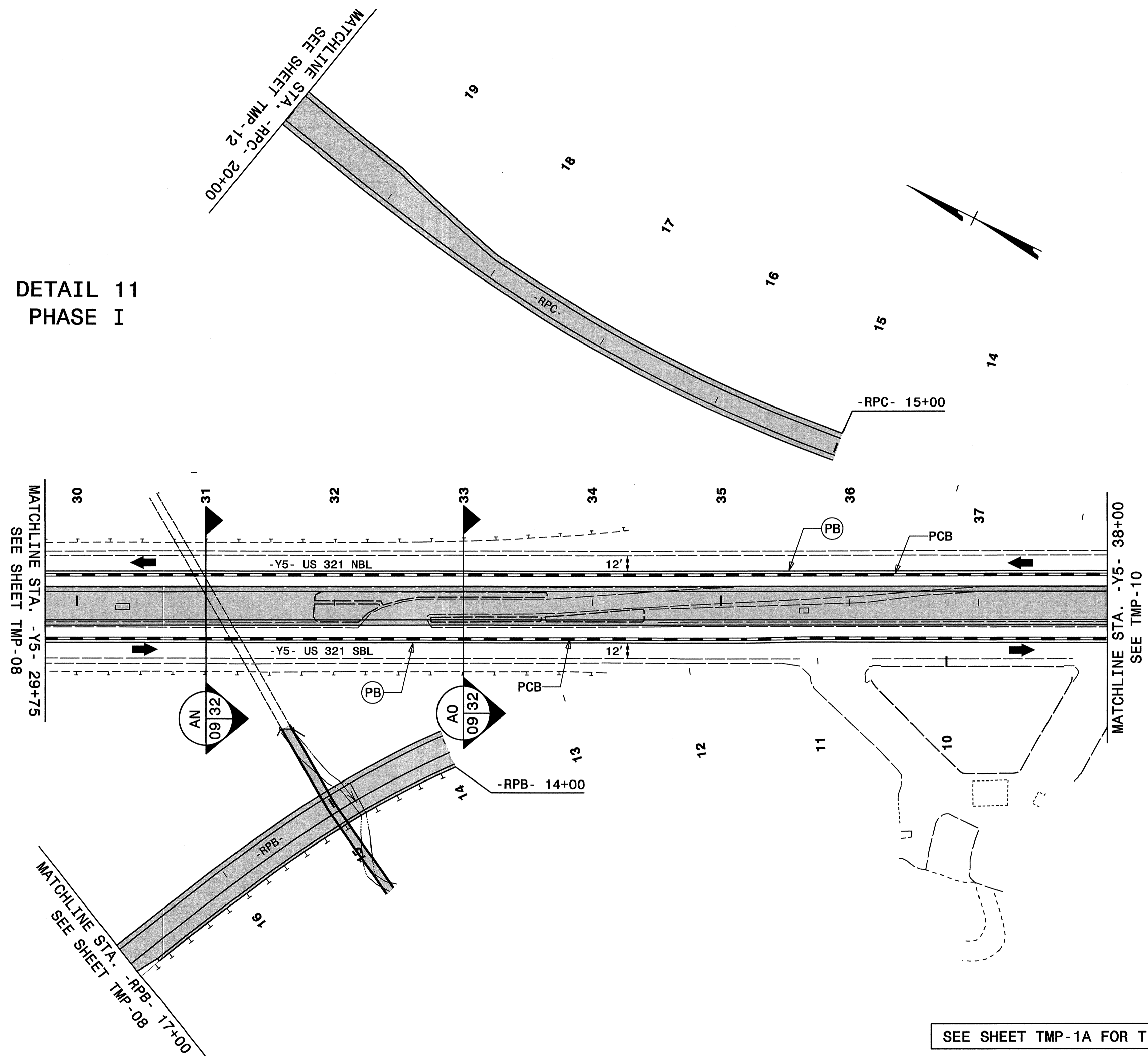
DETAIL 10
PHASE I

SEE TMP-2B FOR TEMPORARY SHORING NOTES
 SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE
 * NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: 1/31/12

PHASE I
DETAIL 10

27-JAN-2012 14:42
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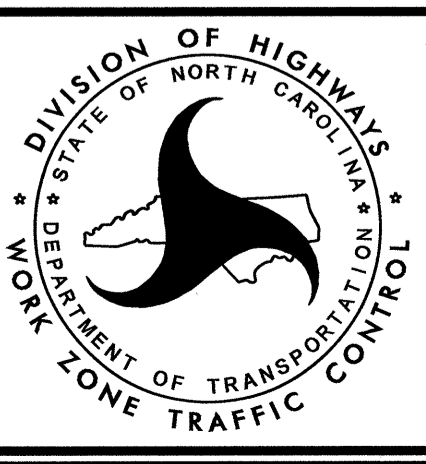
DETAIL 11
PHASE I

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: 1/31/12

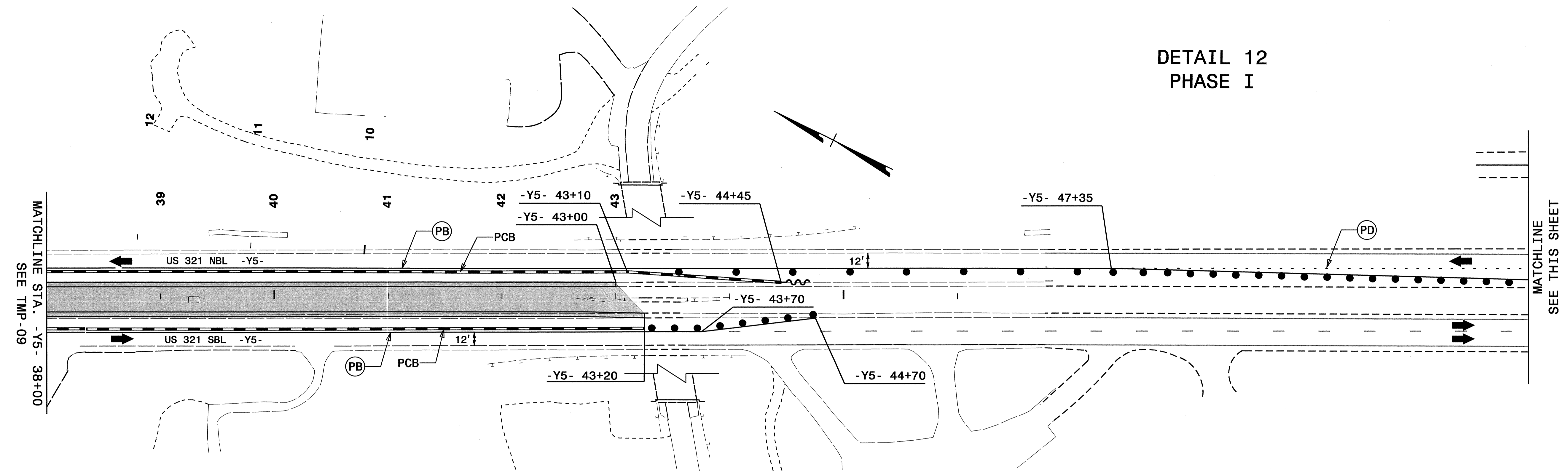
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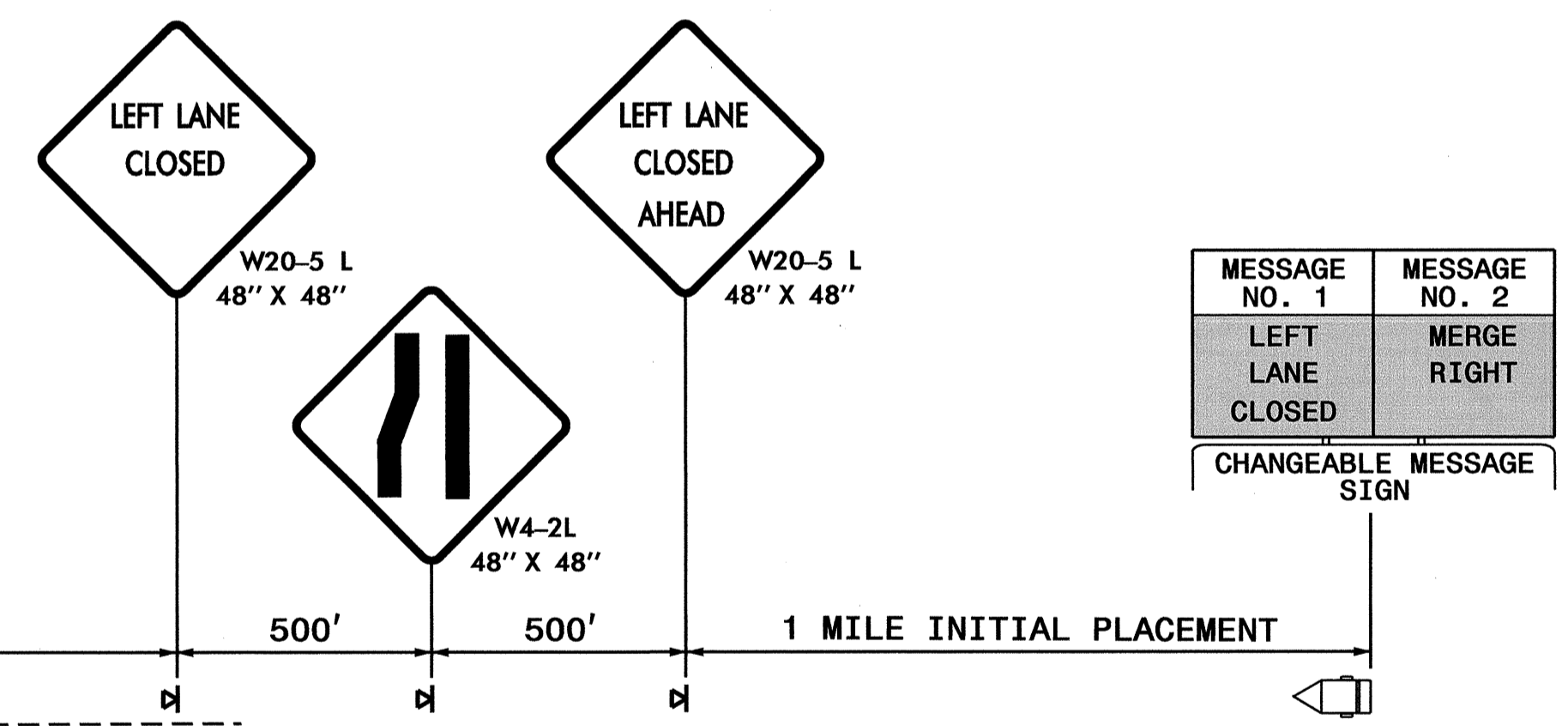
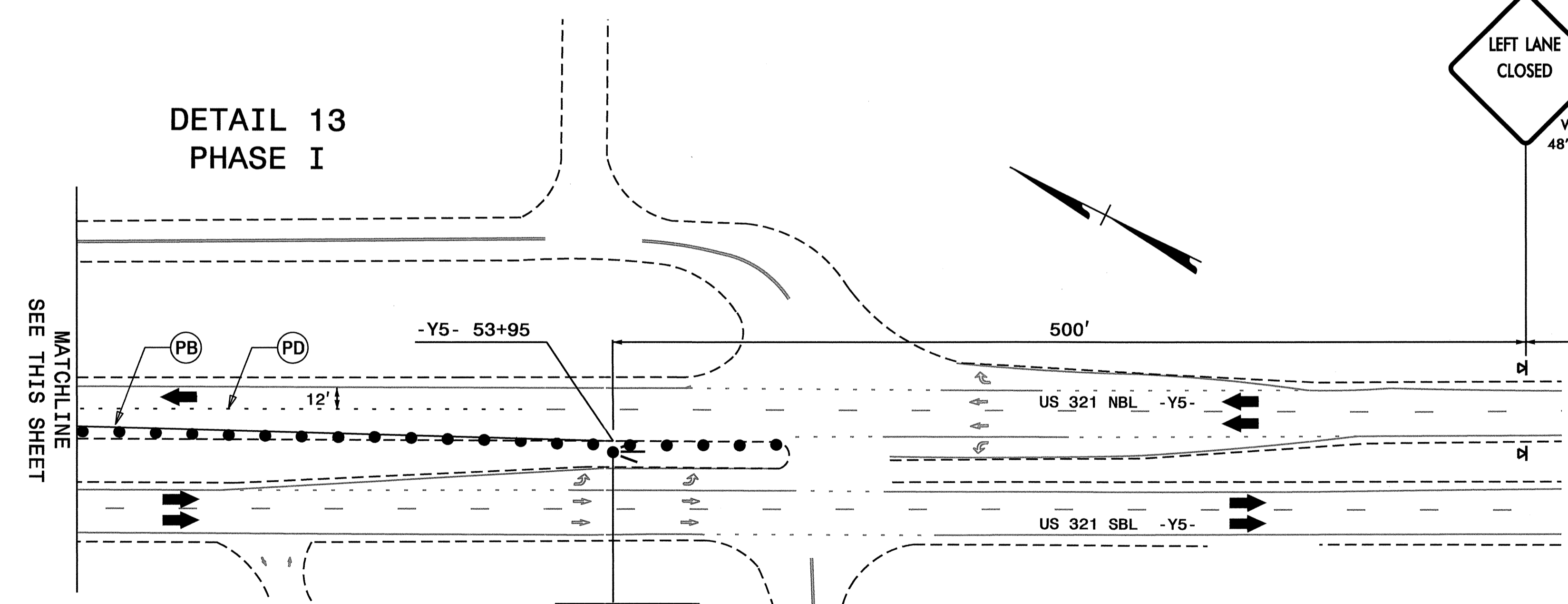
PHASE I
DETAILS 11

30-JAN-2012 08:59
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 idonaldson AT 1237459

DETAIL 12
PHASE I



DETAIL 13
PHASE I



NOTE: PLACE CHANGEABLE MESSAGE SIGNS (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER, PLACE CMS APPROXIMATELY 1 MILE IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.

NOTE: INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.

NOTE: PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW BOARDS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT THE STOPPING DISTANCE TO THE ARROW BOARD IS MET (SEE STD. 1101.11 SHEET 2).

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: DATE: 1/31/12

PHASE I
DETAILS 12 - 13

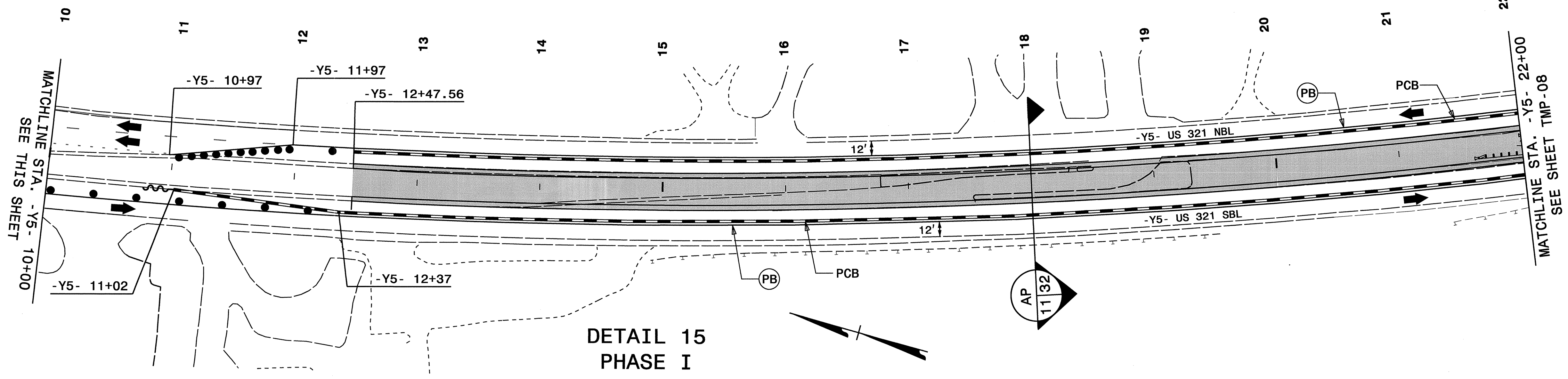
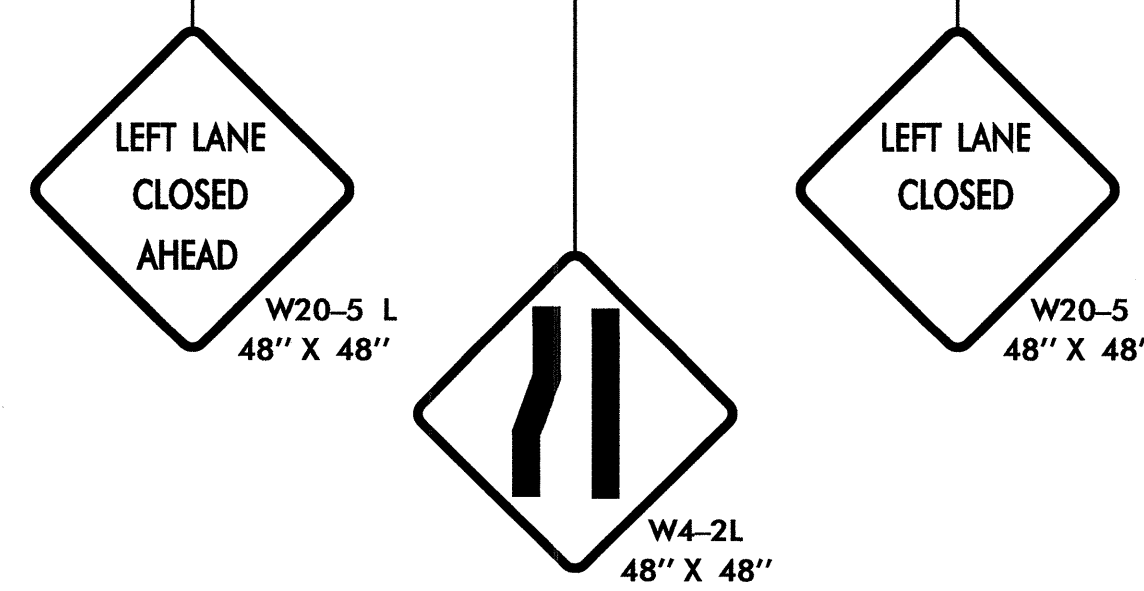
27-JAN-2012 14:27 \\dot\dfs-001\proj\TIP\Projects-U\2211B\TrafficControl\TCP\U2211B_TC_TMP-TMP-10_Phase01.dgn idonidson AT TE237459

NOTE: INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.

NOTE: PLACE CHANGEABLE MESSAGE SIGNS (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER, PLACE CMS APPROXIMATELY 1 MILE IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.

NOTE: FIELD ADJUST LOCATION OF FLASHING ARROW PANEL AS NECESSARY

MESSAGE NO. 1	MESSAGE NO. 2
LEFT LANE CLOSED	MERGE RIGHT
CHANGEABLE MESSAGE SIGN	



DETAIL 15
PHASE I

DETAIL 14
PHASE I

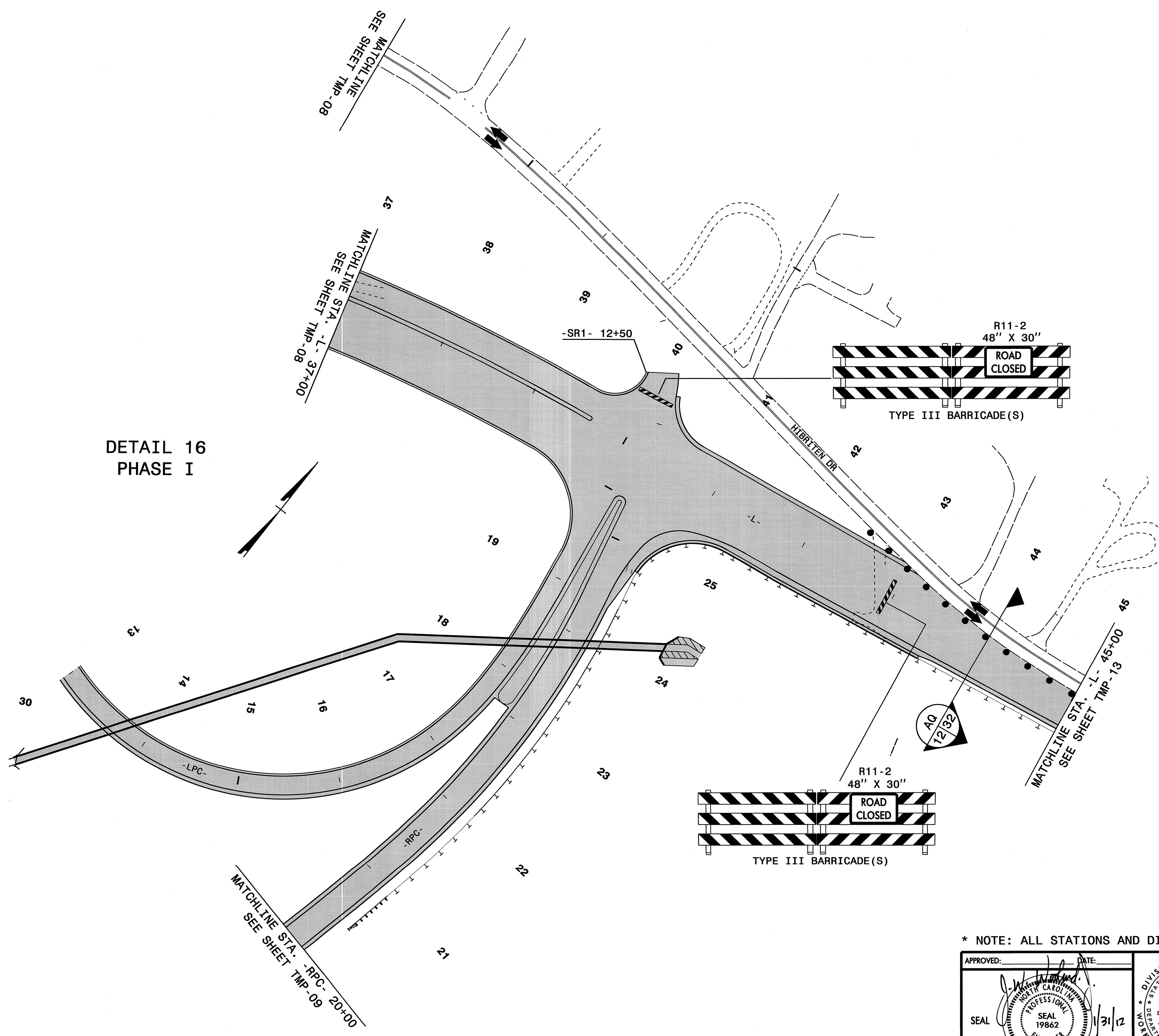
SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

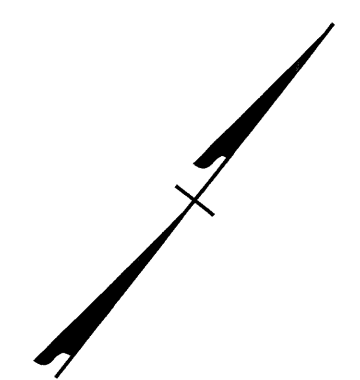
APPROVED:

PHASE I
DETAILS 14 - 15

27-JAN-2012 14:28 \\dot\dfs\0010\proj\IP\Projects-U\2211B\Traffic\TrafficControl\TCP\U2211B_TC_TMP-TMP-11_Phase01.dgn idonidson AT 1E237459

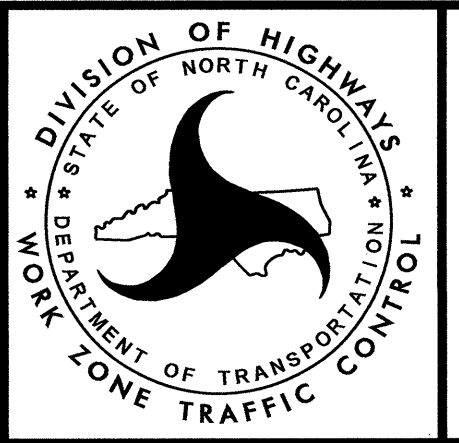


DETAIL 16
PHASE I



* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

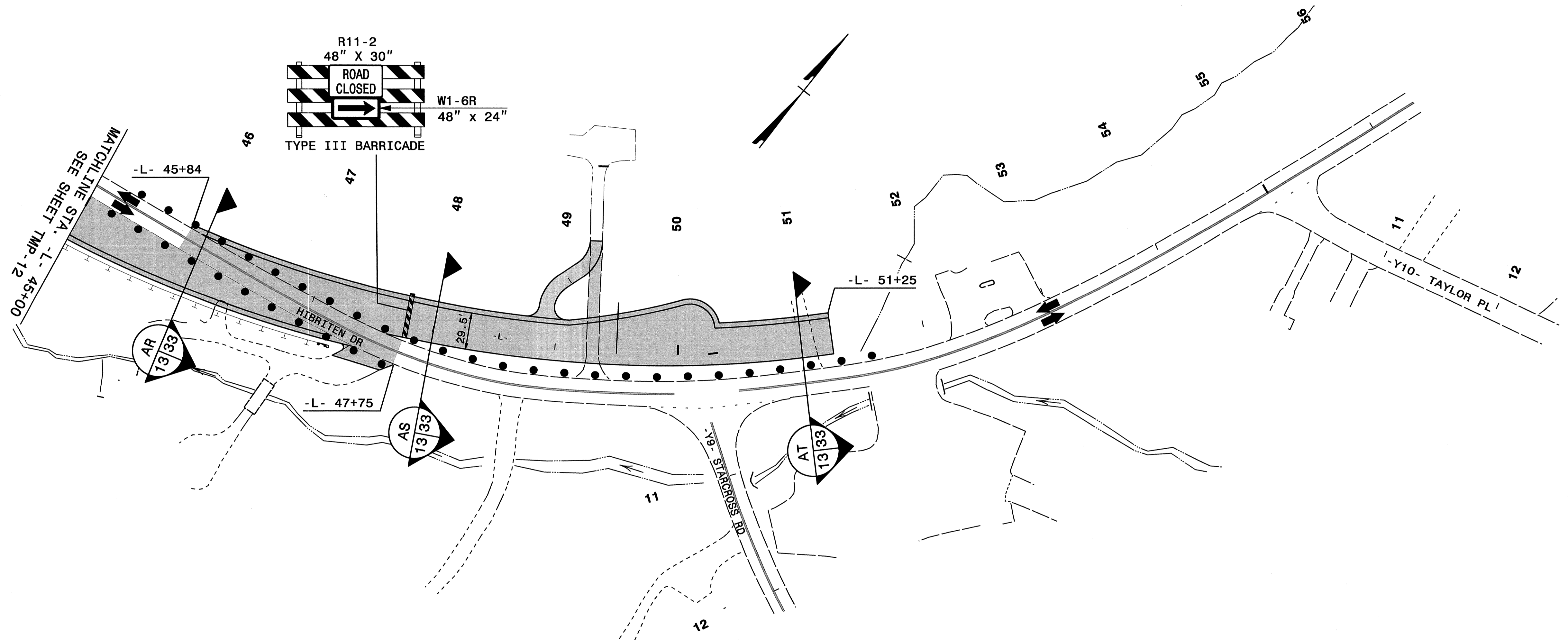
APPROVED: _____ DATE: 3/31/12



PHASE I
DETAIL 16

30-JAN-2012 09:40
 C:\Users\jason\Documents\Projects-U2211B\TrafficControl\TCP-U2211B-TC-TMP-TMP-12_Phase01.dgn
 jason AT TEL37459

DETAIL 17
PHASE I



* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

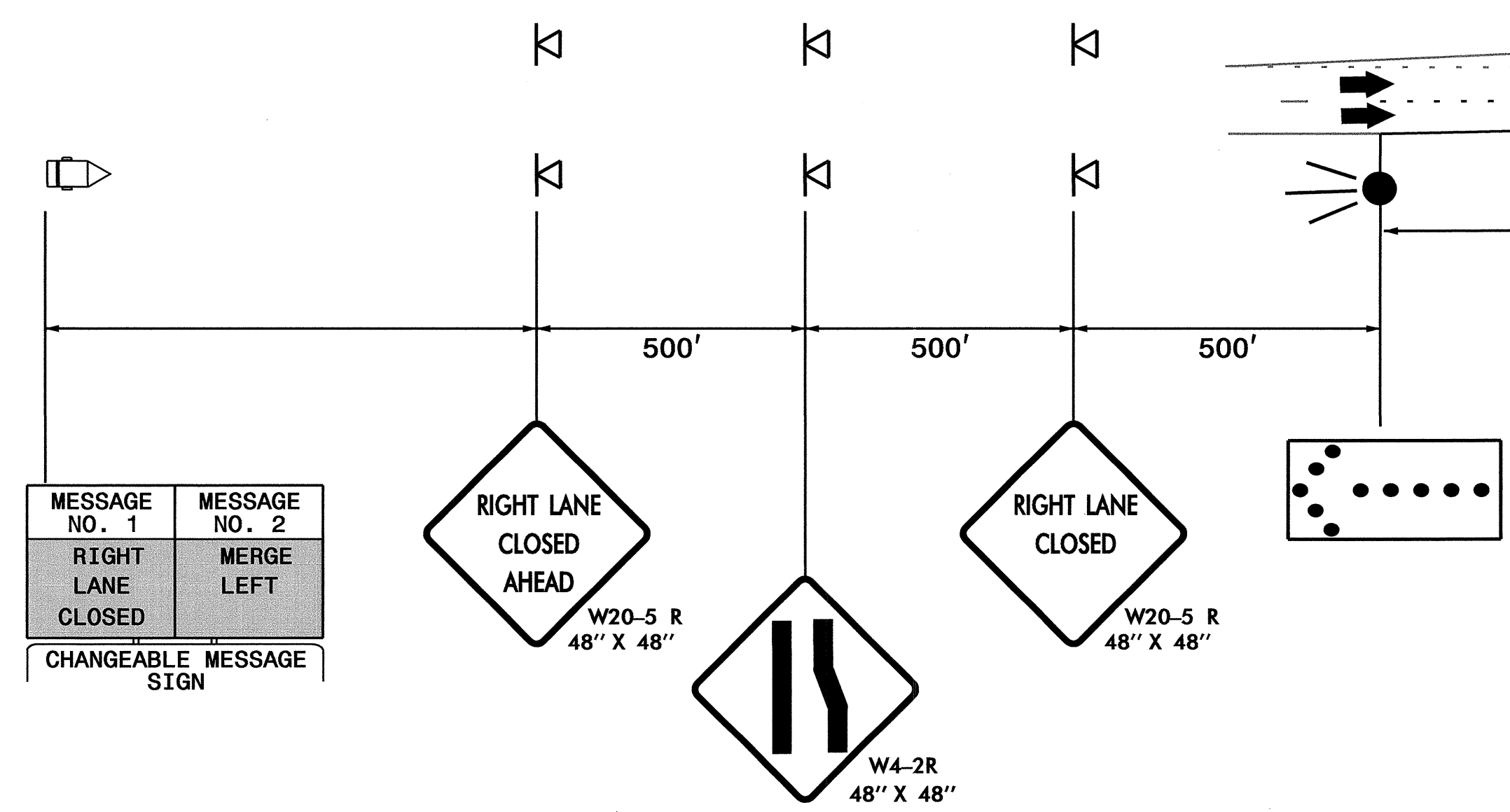
30-JAN-2012 09:33
 \\dot\dfs\0010\proj\TIP\projects-U\U2211B\TrafficControl\TCP\U2211B_TC_TMP-TMP-13_Phase01.dgn
 idonaldson AT 1E237459

APPROVED: _____ DATE: 1/31/12			<p>PHASE I DETAIL 17</p>
SEAL			

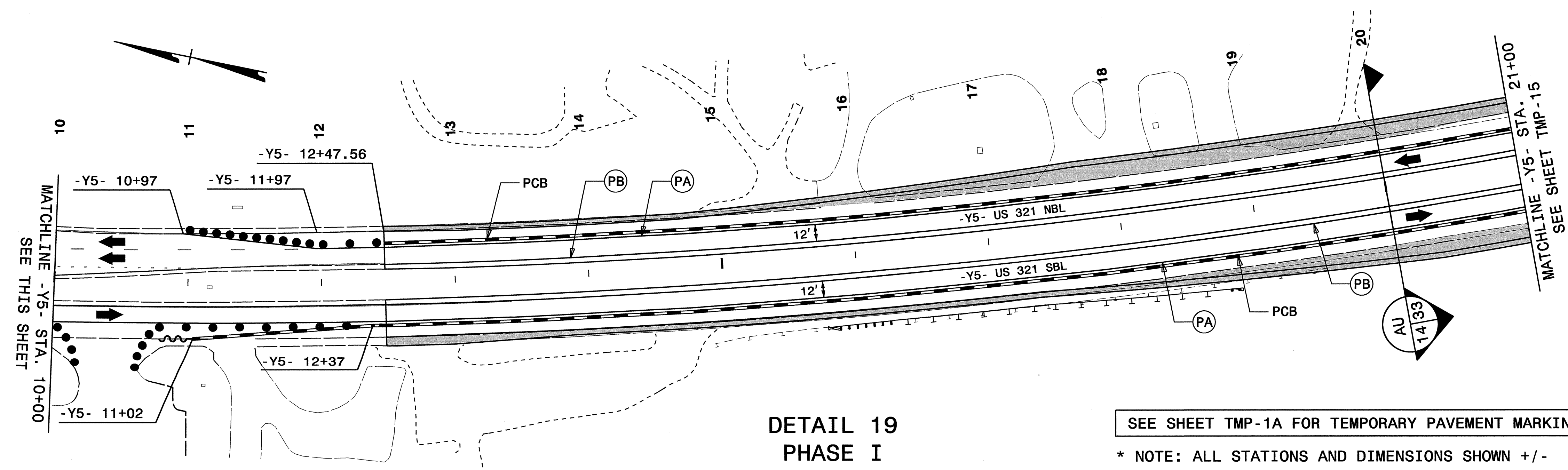
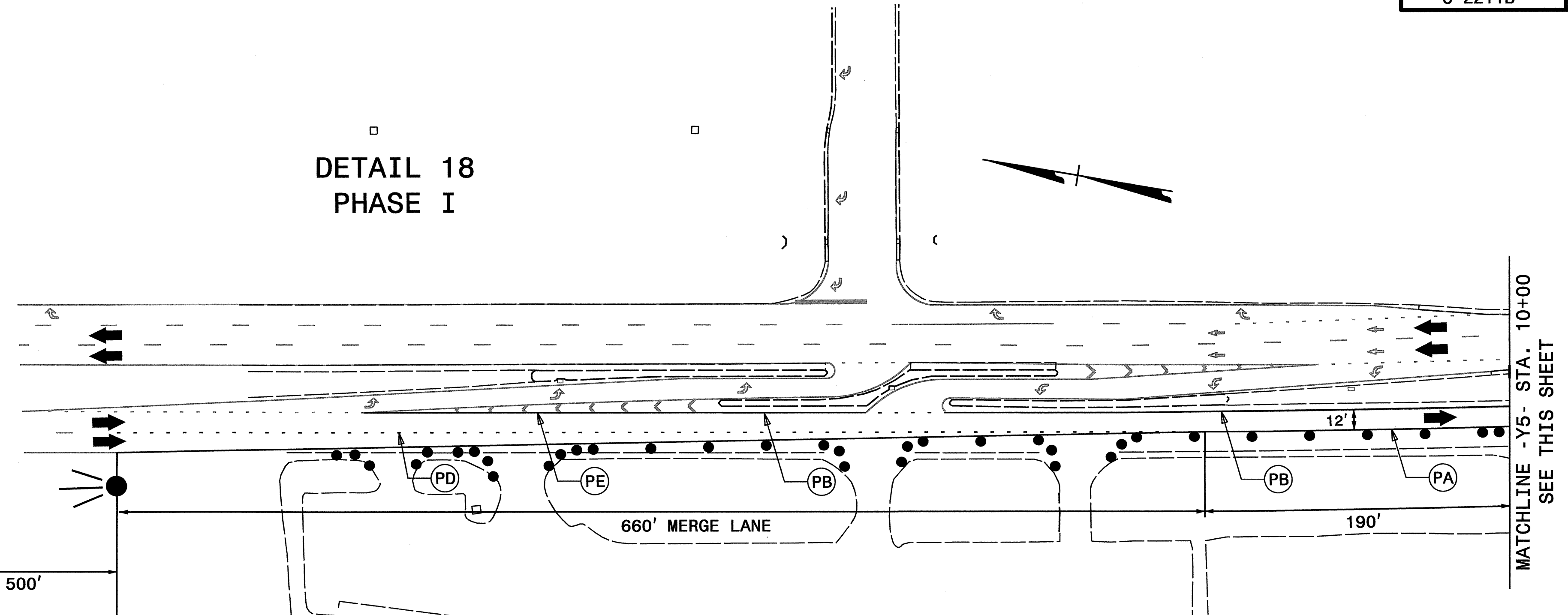
NOTE: INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.

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DETAIL 18 PHASE I



NOTE: PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW BOARDS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT THE STOPPING DISTANCE TO THE ARROW BOARD IS MET (SEE STD. 1101.11 SHEET 2).



DETAIL 19 PHASE I

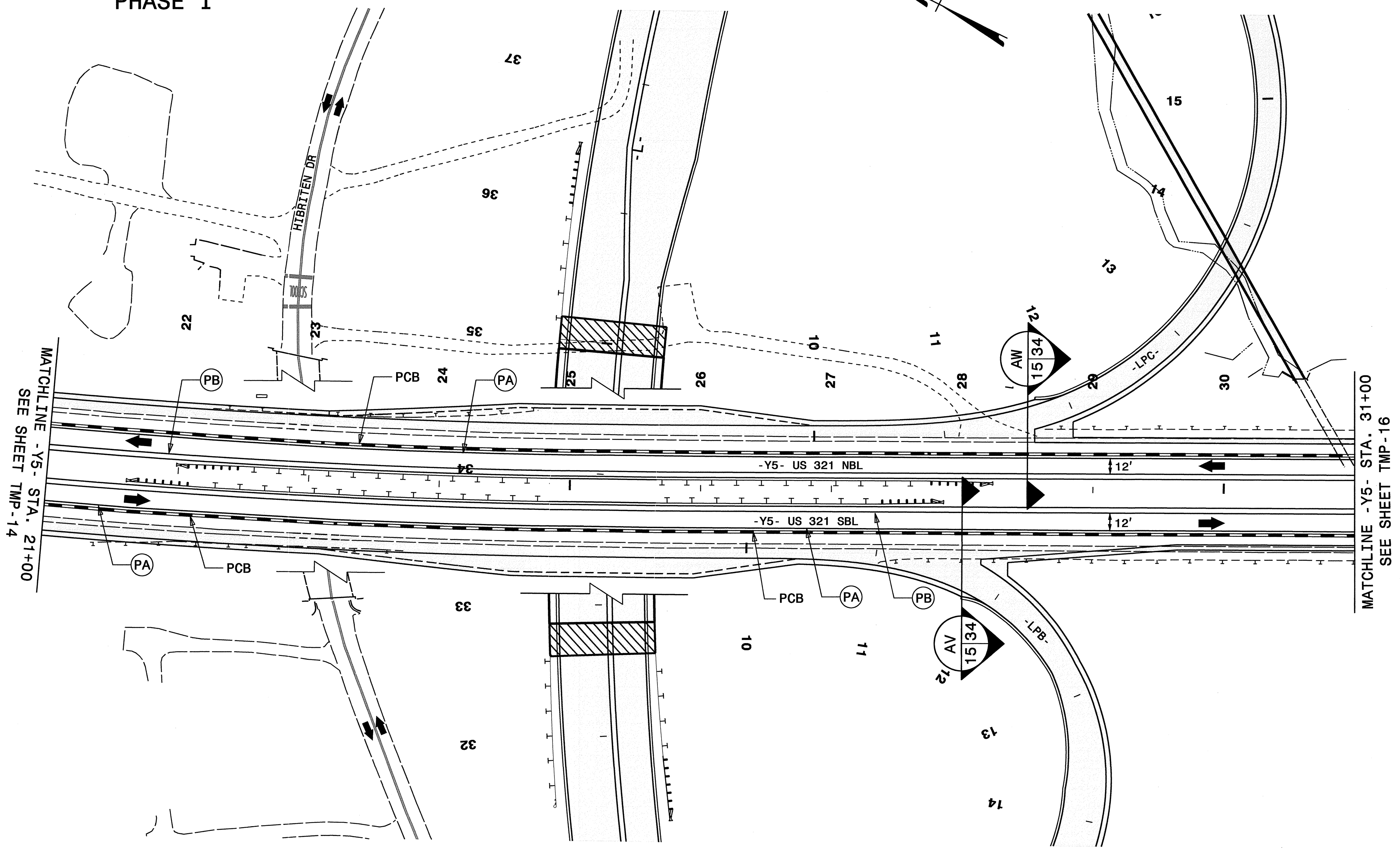
SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

30-JAN-2012 09:34 \\dot\dfs\root\proj\TIPProjects-U2211B\TrafficControl\U2211B-TC-TMP-TMP-14-Phase01.dgn AT TE237459 idonaldson

APPROVED:	DATE:			<p>PHASE I DETAILS 18 - 19</p>
SEAL:	1/31/12			

DETAIL 20
PHASE I



MATCHLINE -Y5- STA. 21+00
SEE SHEET TMP-14

MATCHLINE -Y5- STA. 31+00
SEE SHEET TMP-16

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

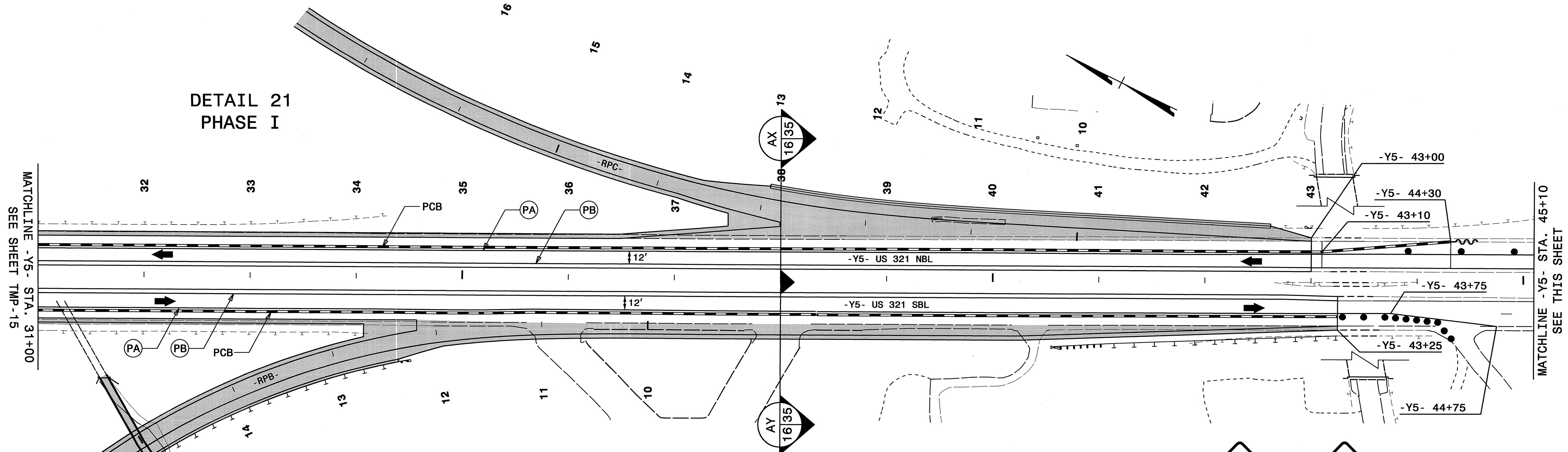
APPROVED: _____ DATE: 1/3/12

SEAL

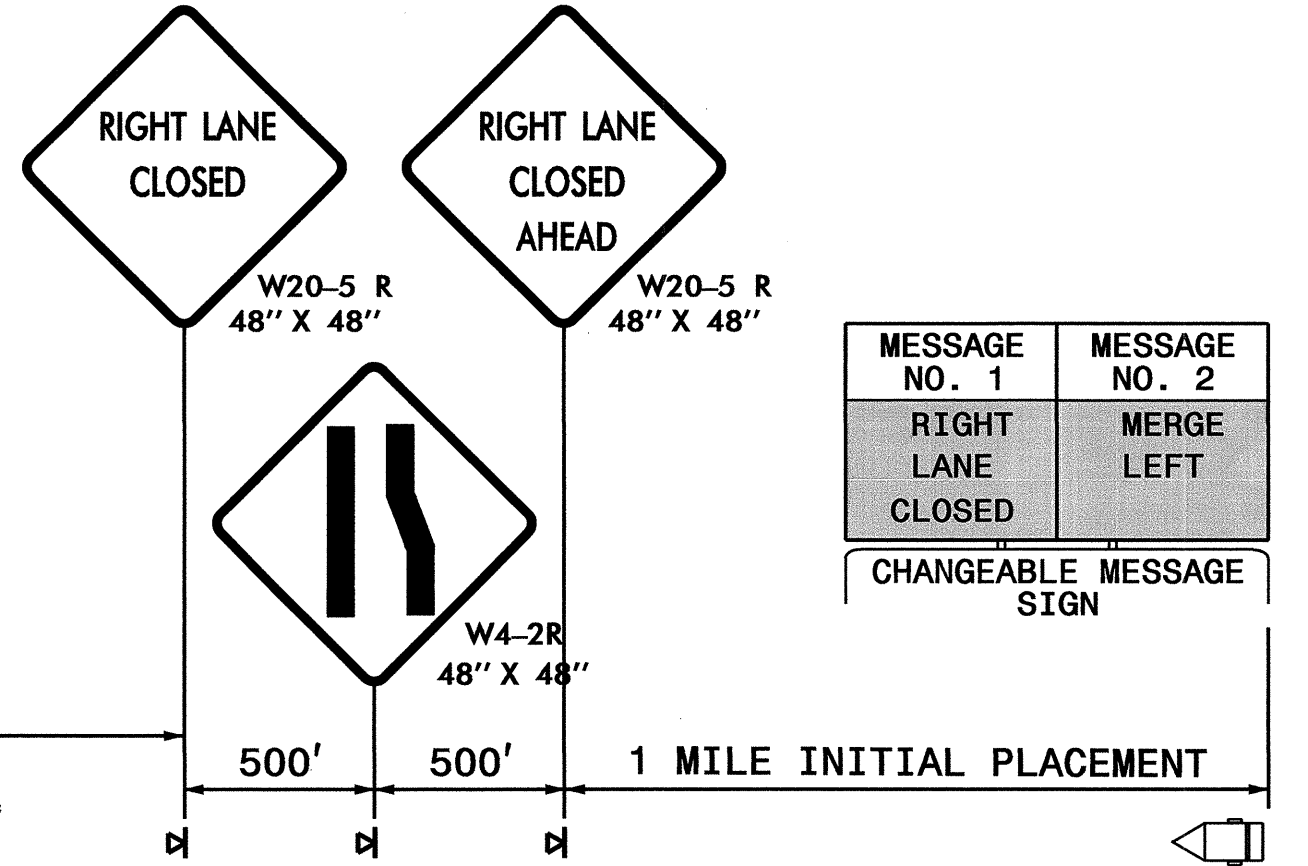
PHASE I
DETAIL 20

30-JAN-2012 15:59
 C:\Users\jdonaldson\Documents\Projects-U\2211B\TrafficControl\U2211B-TC-TMP-TMP-15_Phase01.dgn
 jdonaldson AT 1/23/12

DETAIL 21
PHASE I

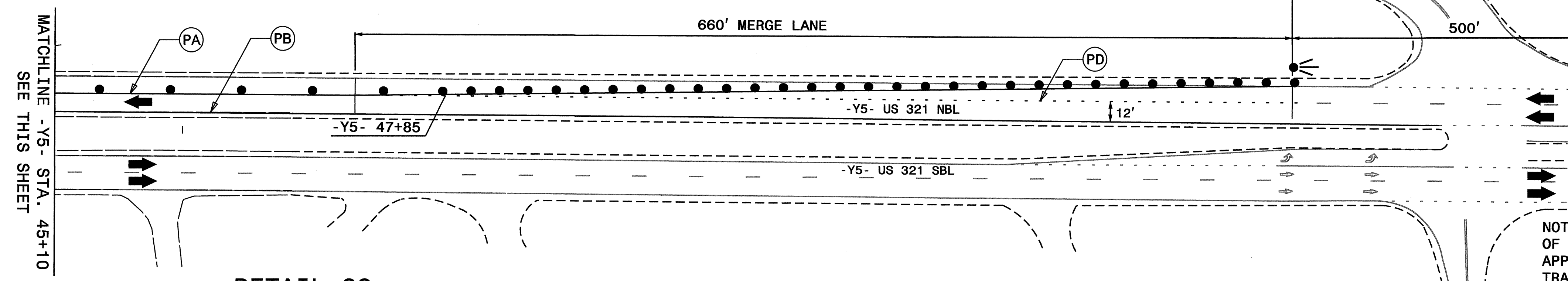


NOTE: PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW BOARDS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT THE STOPPING DISTANCE TO THE ARROW BOARD IS MET (SEE STD. 1101.11 SHEET 2).



NOTE: PLACE CHANGEABLE MESSAGE SIGNS (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER, PLACE CMS APPROXIMATELY 1 MILE IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.

DETAIL 22
PHASE I



NOTE: INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.

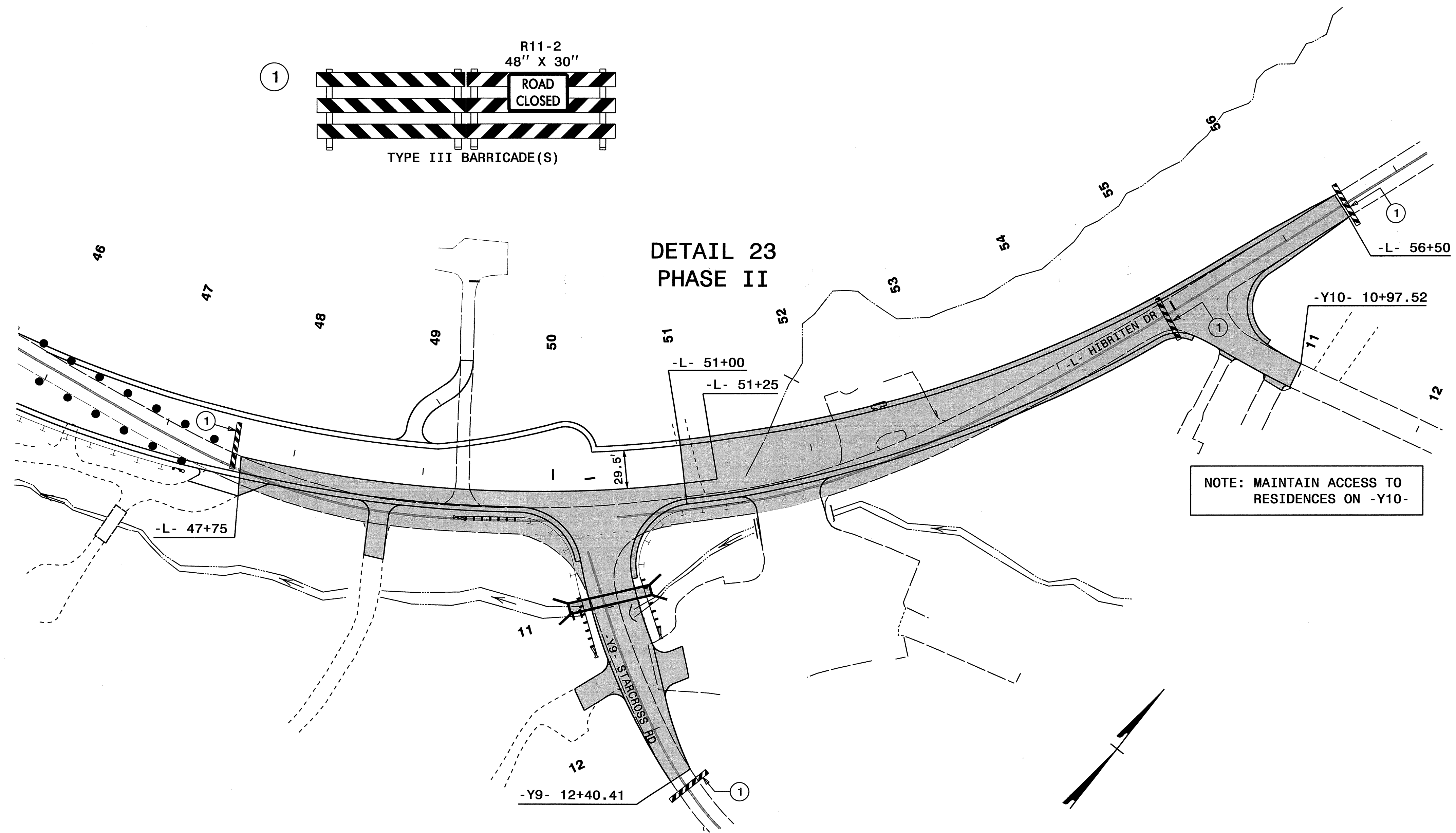
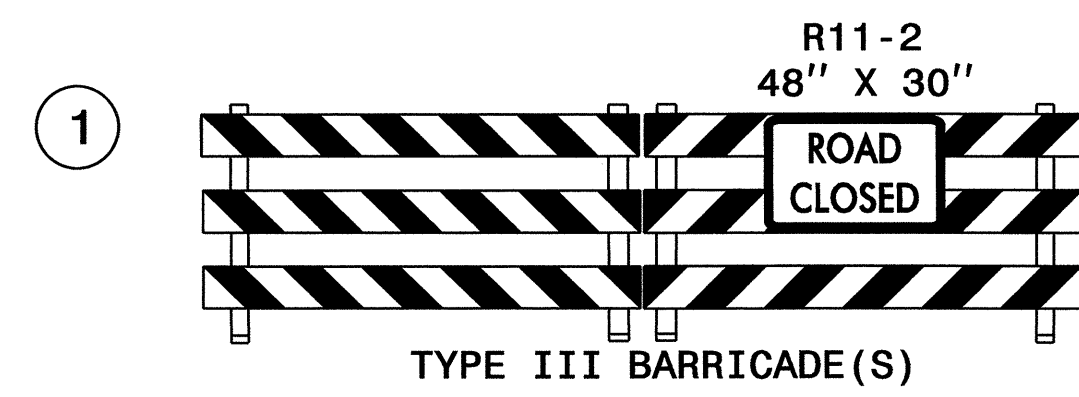
SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

30-JAN-2012 09:45 \\dot\dfs\0010\proj\TIP\Projects-U\2211B\TrafficControl\TCP\U2211B.TC.TMP-TMP-16_Phase01.dgn idonidson AT 12/23/12

APPROVED: _____ DATE: 1/31/12

PHASE I
DETAILS 21 - 22



* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

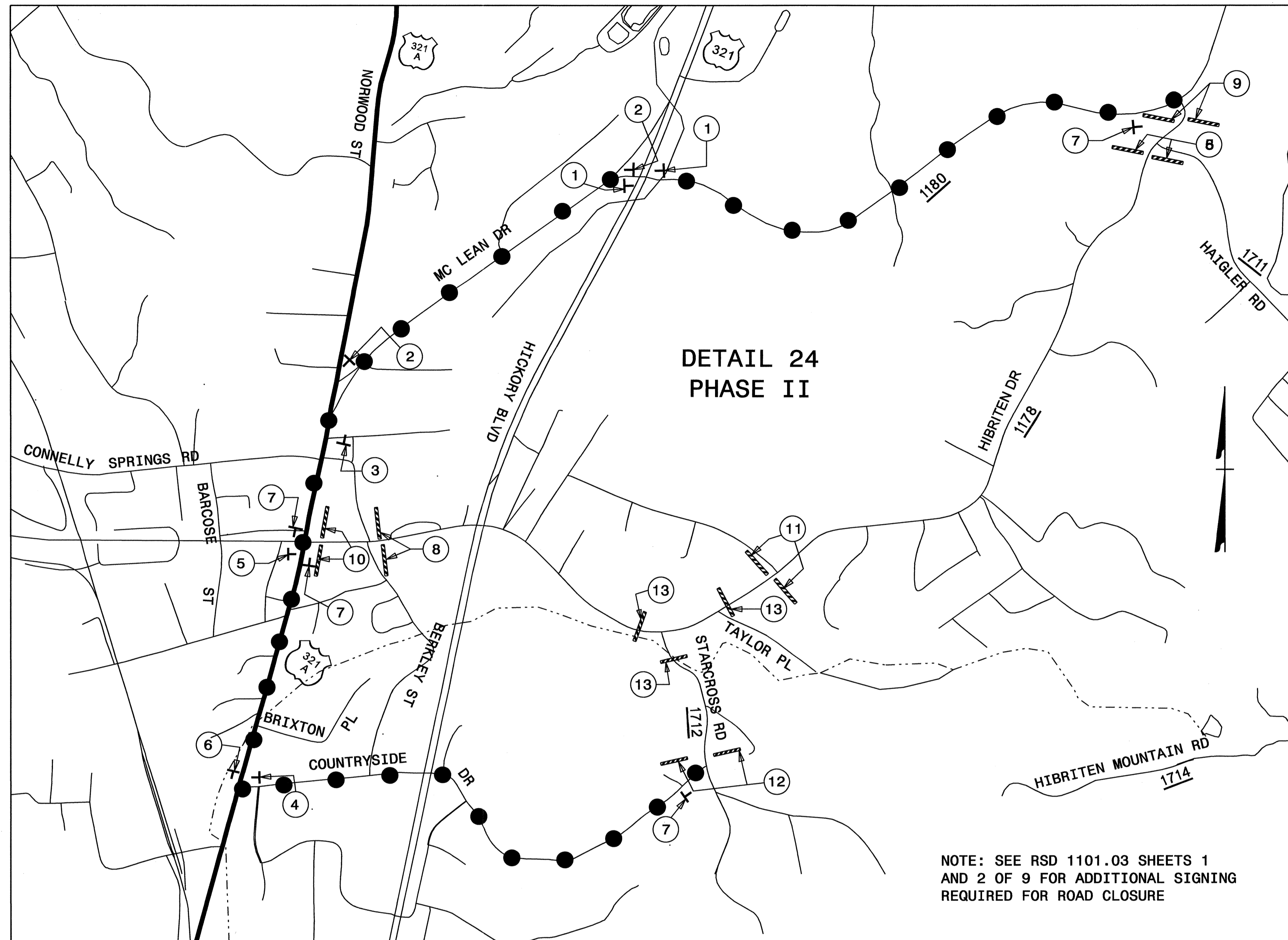
APPROVED: _____ DATE: _____

SEAL

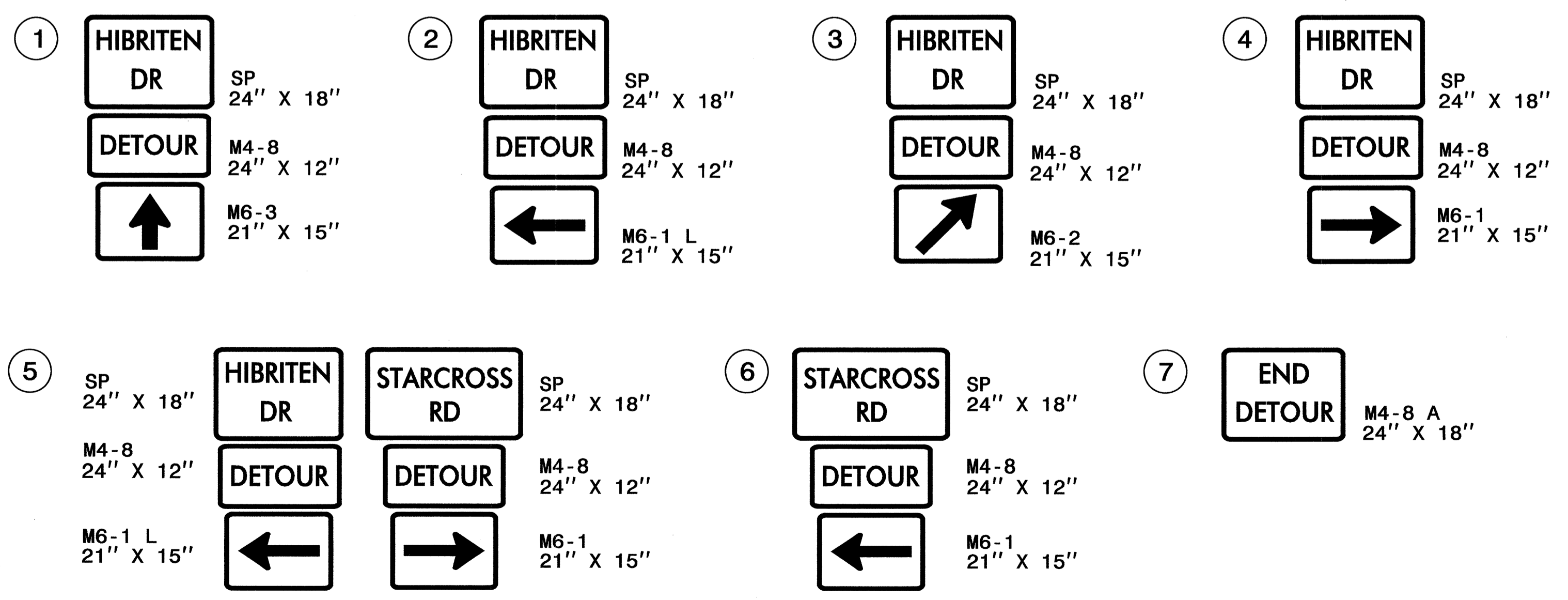
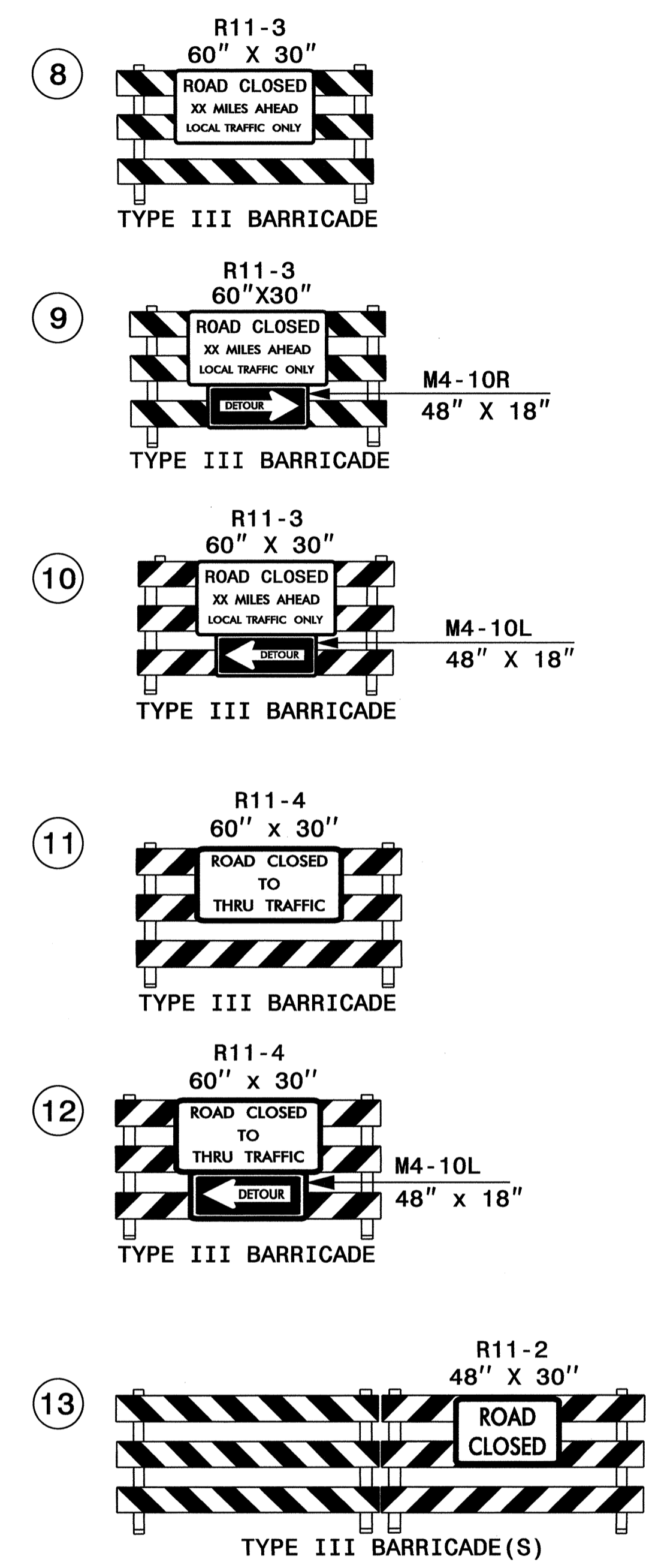
1/31/12

PHASE II
DETAIL 23

30-JAN-2012 09:39
 \\dot\dfs\oo10\pro\TIP\Projects-U2211B\TrafficControl\TCP\U2211B_TC_TMP-17_Phase01.dgn
 idonaldson AT TE231459



NOTE: SEE RSD 1101.03 SHEETS 1 AND 2 OF 9 FOR ADDITIONAL SIGNING REQUIRED FOR ROAD CLOSURE

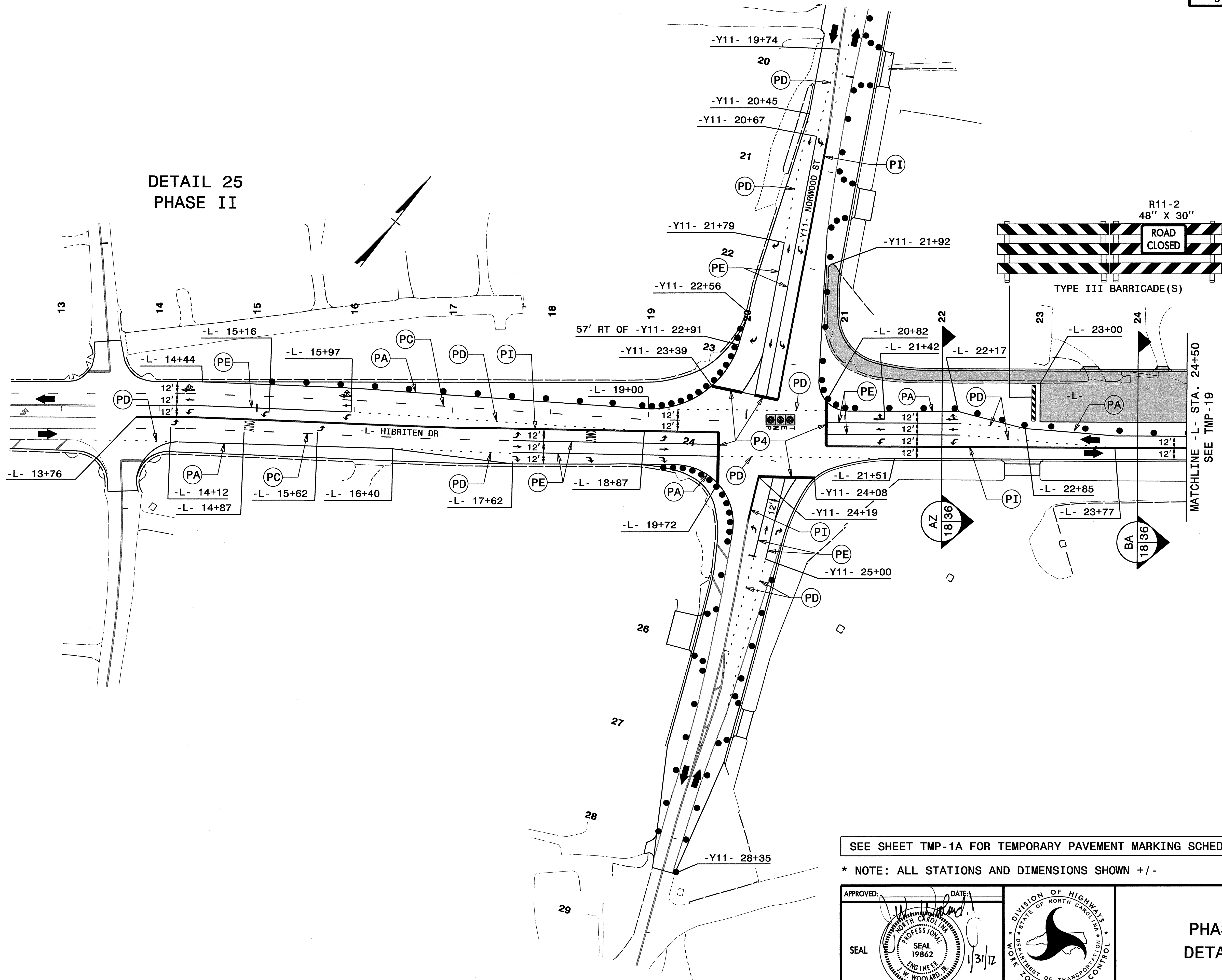


* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

30-JAN-2012 09:39 \\dot\dfs\root\Projects\TrafficControl\U2211B.TC.TMP-TMP-17_Phase01.dgn idonadson AT 1237453

APPROVED: _____ DATE: _____			<p>PHASE II DETAIL 24</p>
SEAL			

DETAIL 25
PHASE II



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

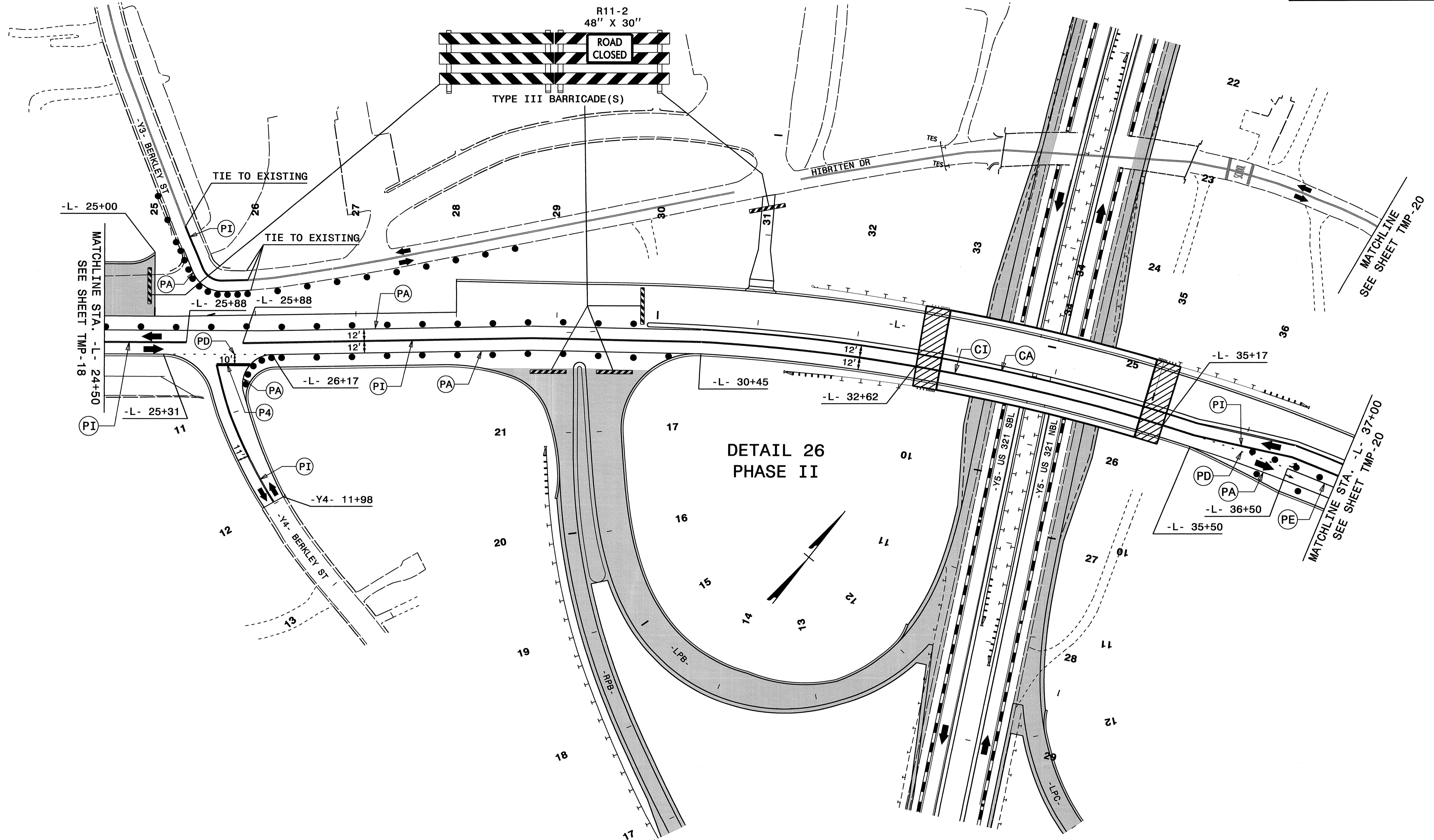
* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: *[Signature]* DATE: 1/31/12

SEAL

PHASE II
DETAIL 25

30-JAN-2012 09:41
 \\dot\dfs\oo\pro\proj\pp\projects-U2211B\TrafficControl\TCP\U2211B_TC_TMP-18_Phase02.dgn
 idonaldson AT TE237459



DETAIL 26
PHASE II

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

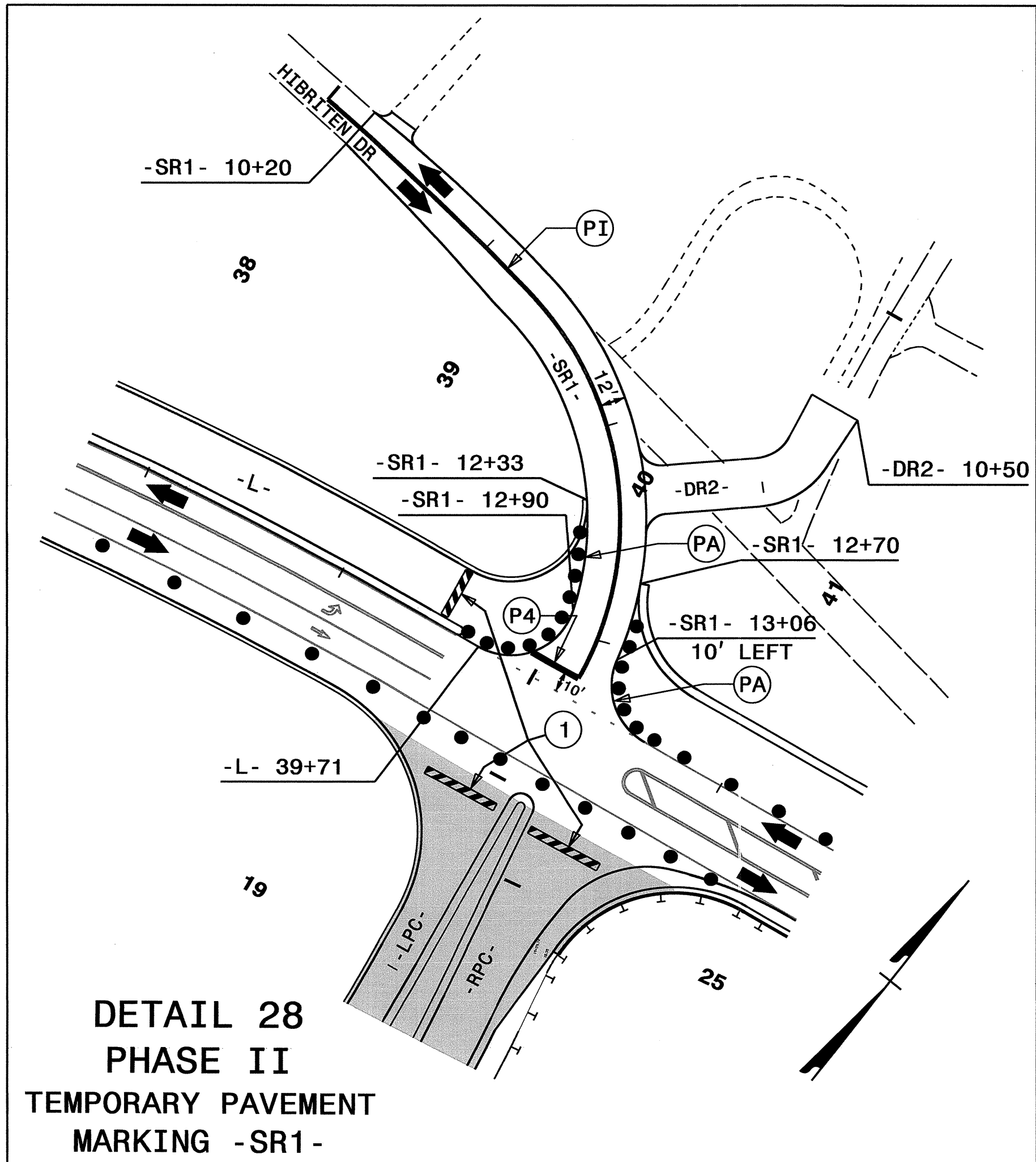
APPROVED: _____ DATE: 1/31/12

SEAL

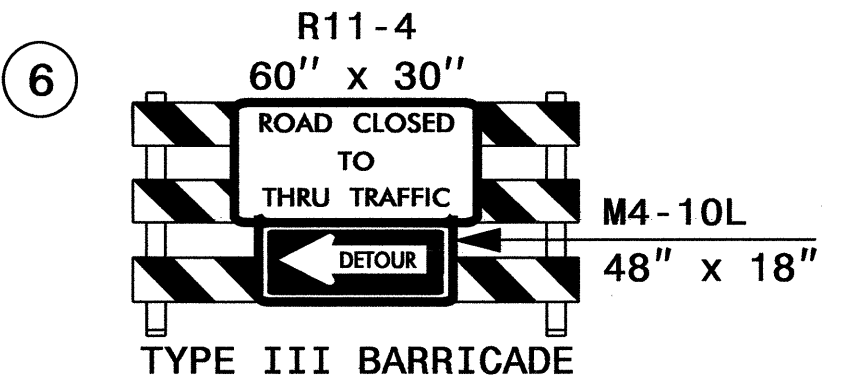
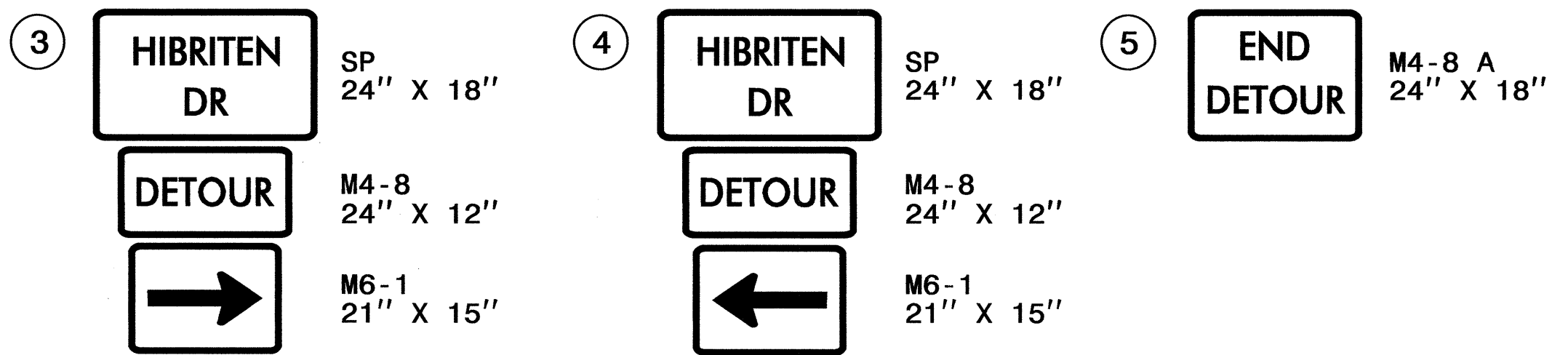
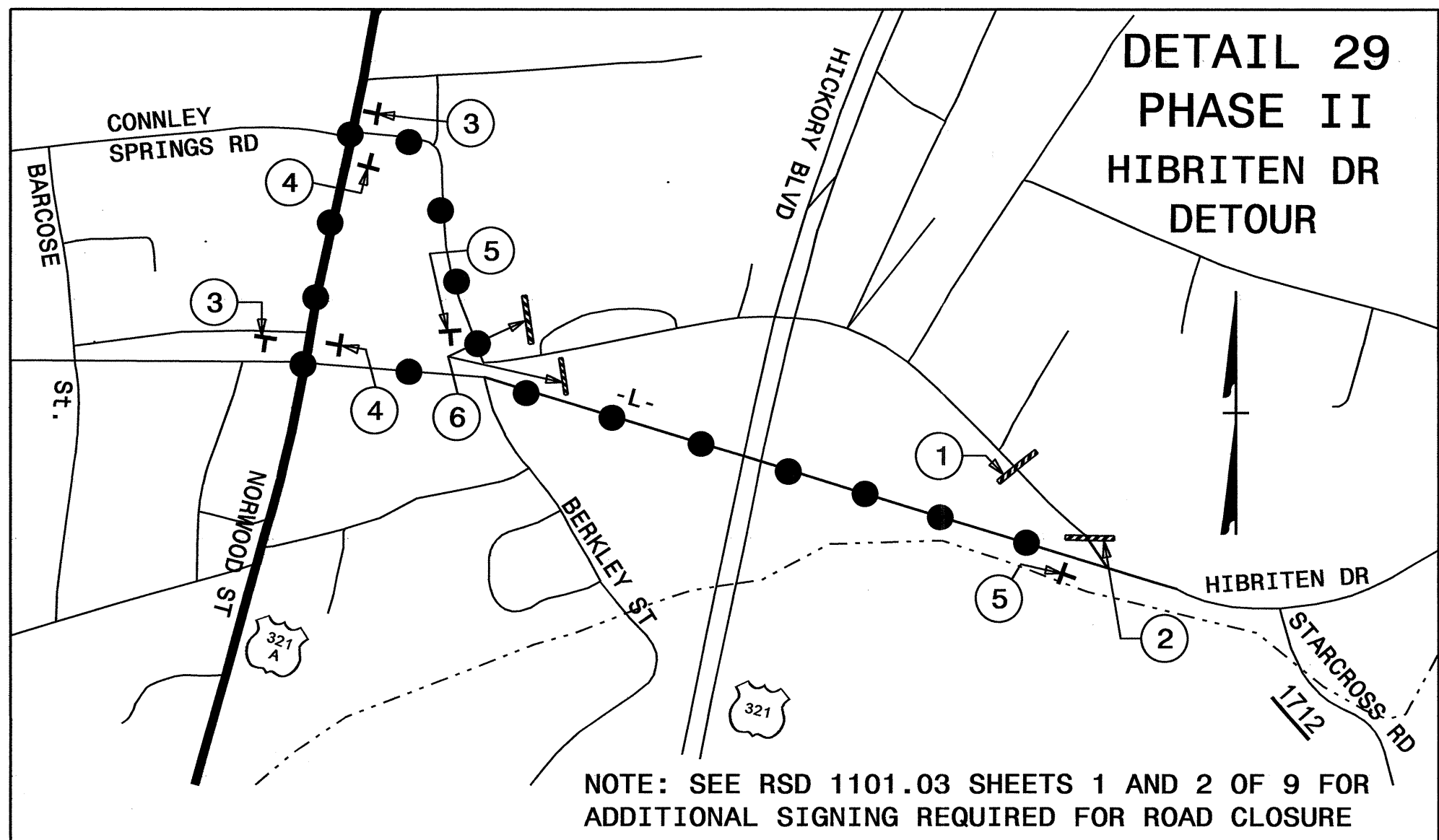
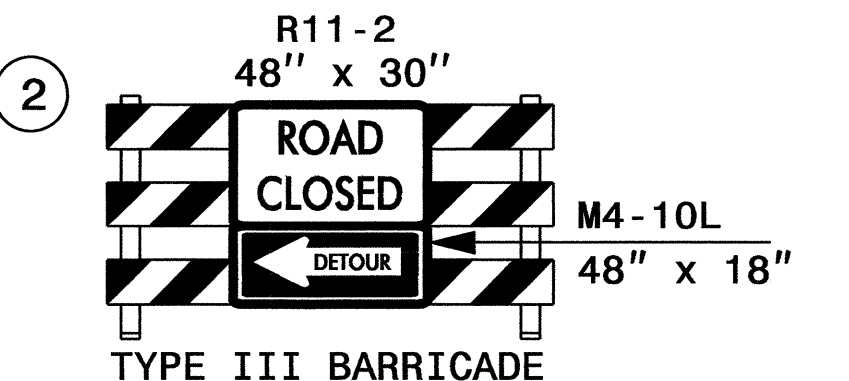
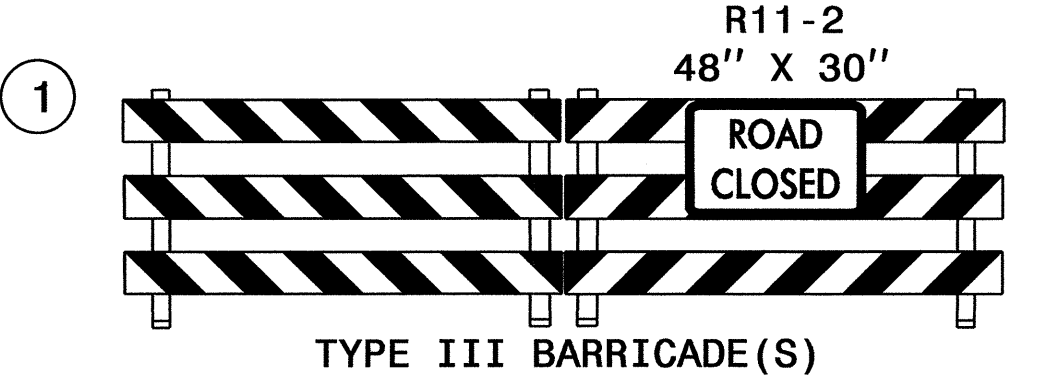
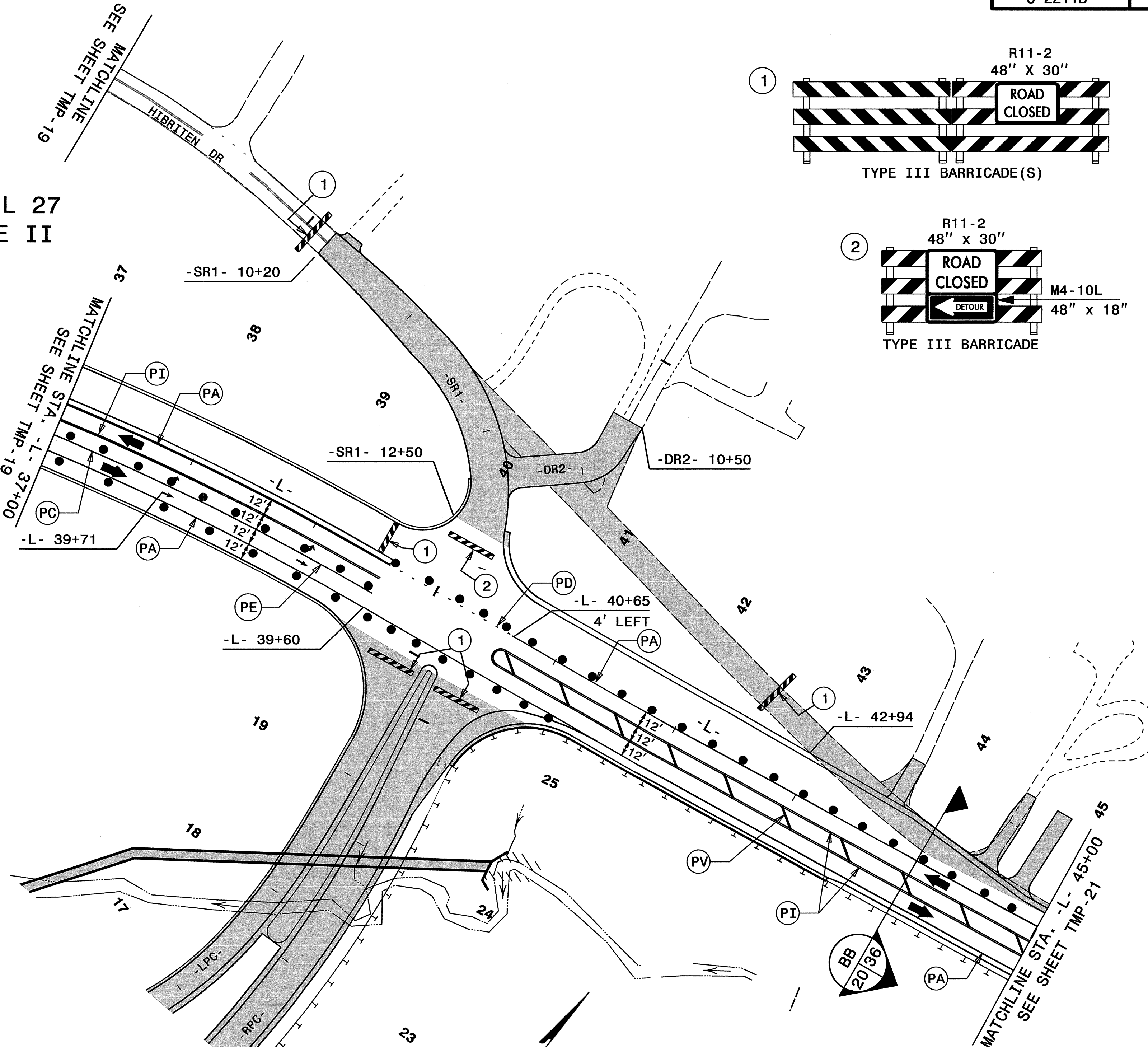


PHASE II
DETAIL 26

30-JAN-2012 08:49
 \\dot\dfsroot\proj\TipProjects-U2211B\TrafficControl\U2211B.TC_TMP-19_Phase02.dgn
 AT FE237459
 idonaldson



DETAIL 27
PHASE II

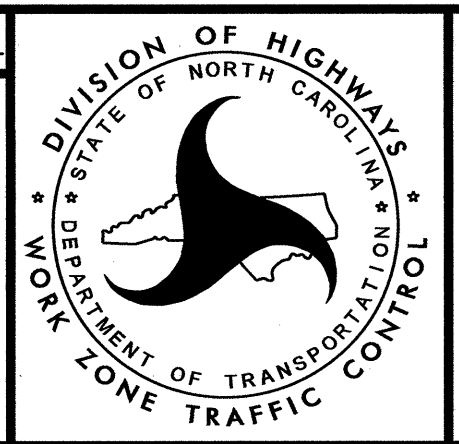


SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

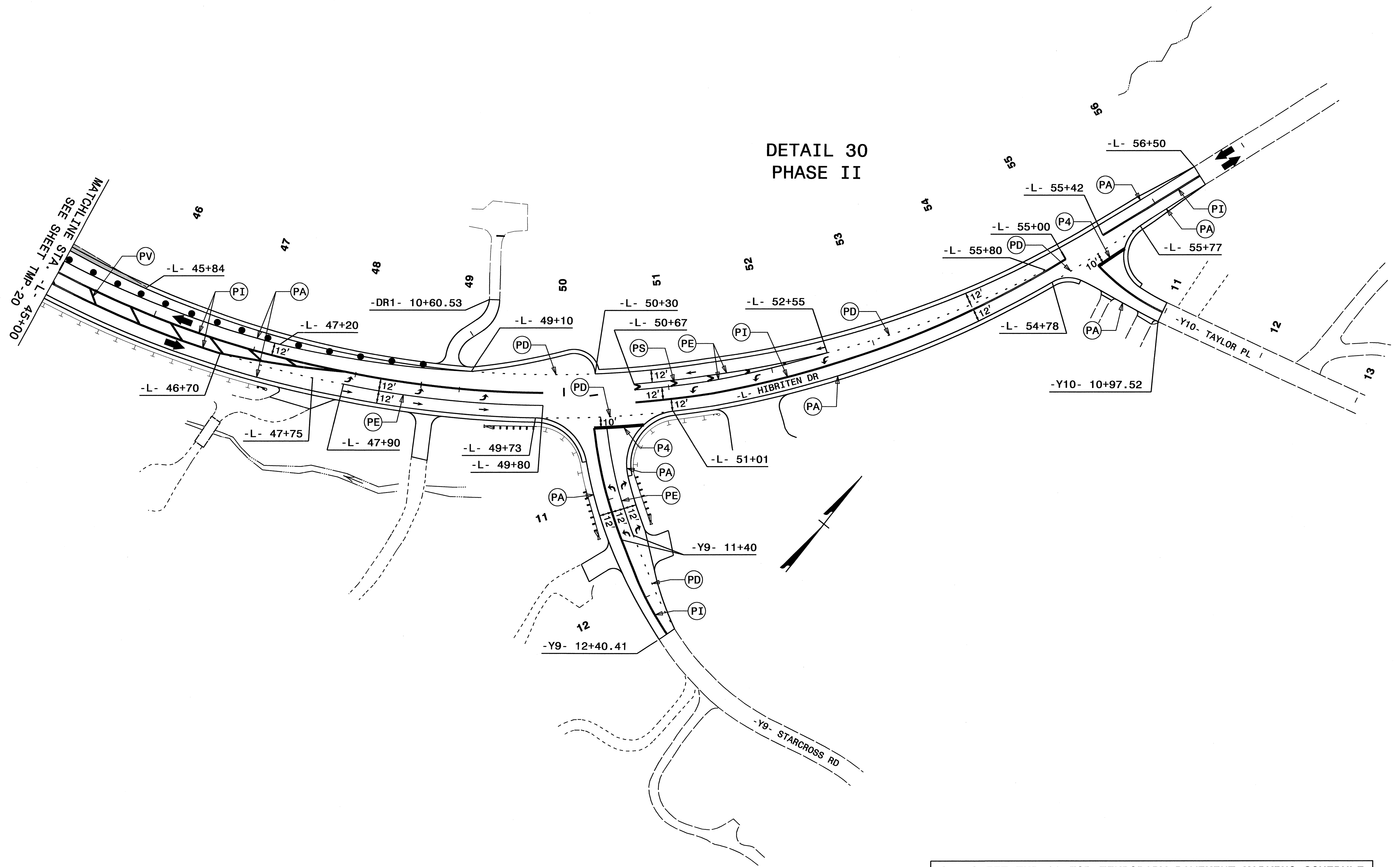
SEAL



PHASE II
DETAILS 27 - 29

27-JAN-2012 16:52 \\dot\dfs\root\pco\TIP\Projects-U\U2211B-TrafficControl\TCP-U2211B-TC-TMP-TMP-20_Phase02.dgn idonidson AT TE237459

DETAIL 30
PHASE II

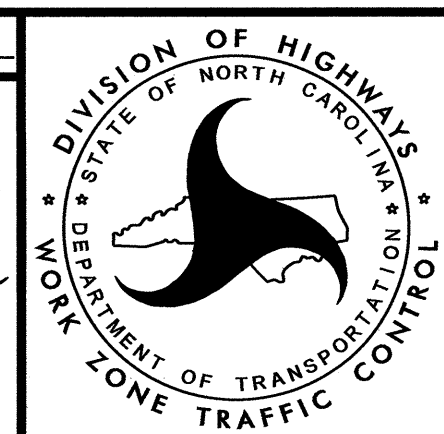


SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

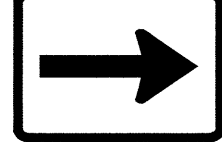
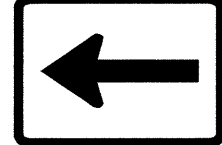
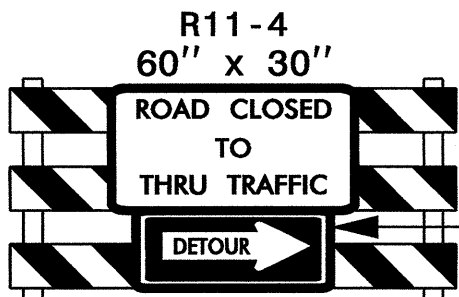
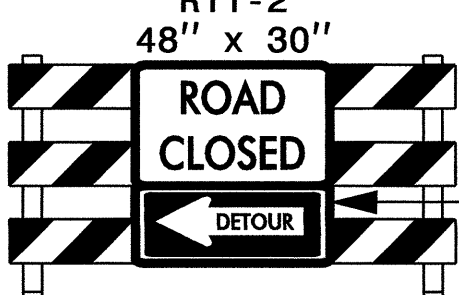
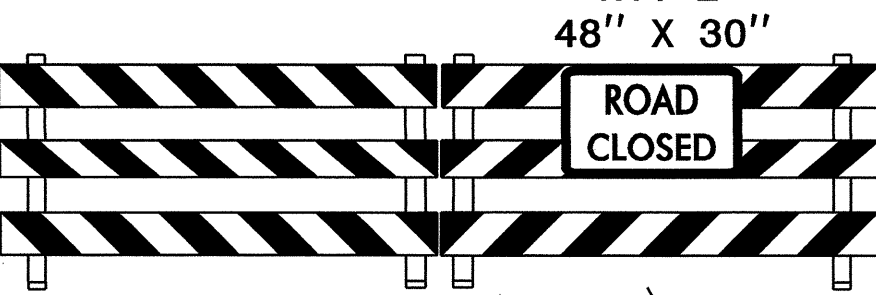
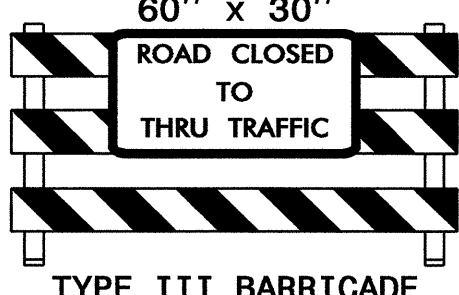
APPROVED: _____ DATE: 1/31/12

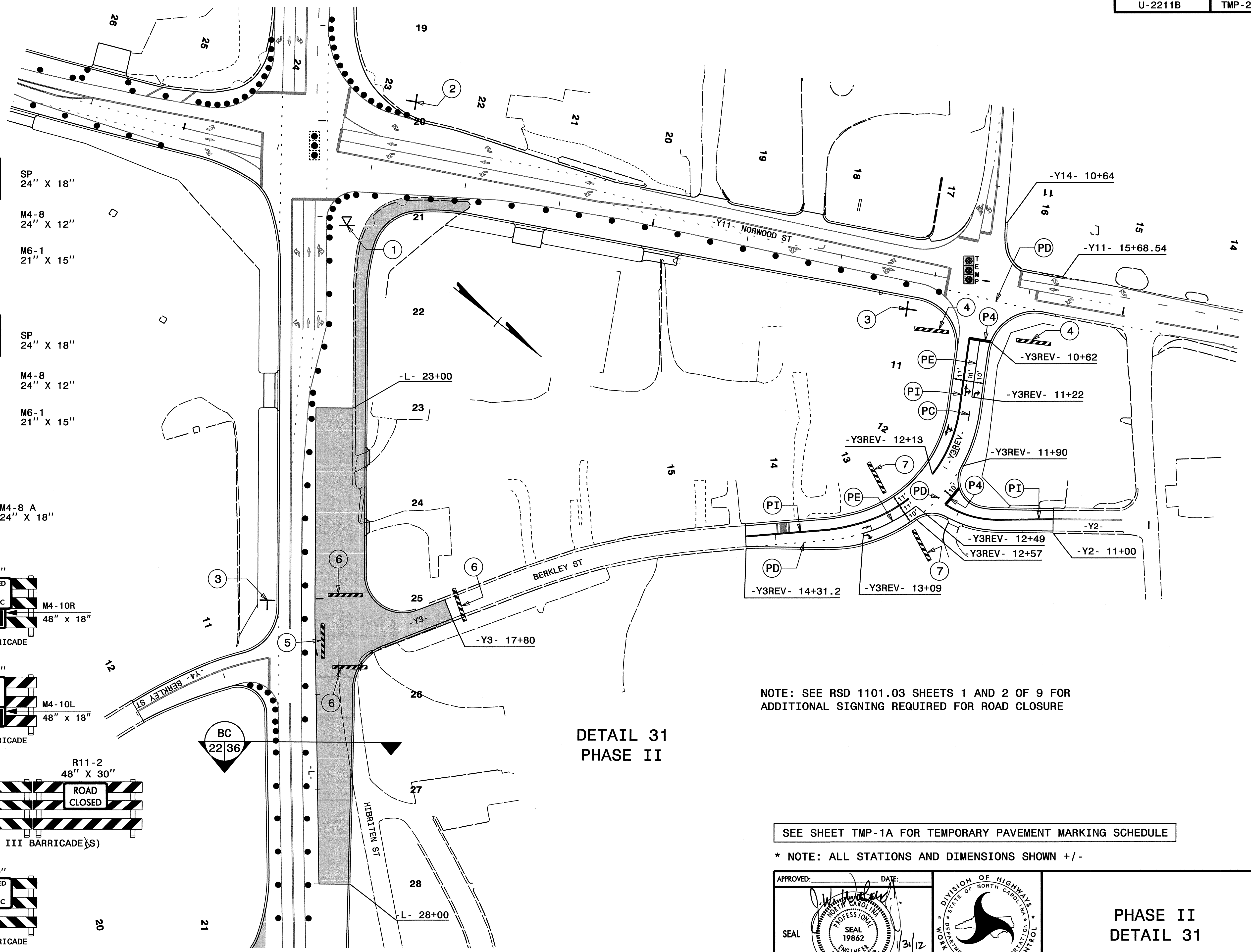
SEAL



PHASE II
DETAILS 30

27-JAN-2012 16:51
 \\dot\dfs\0070\proj\TIP\Projects-U\2211B\Traffic\Control\TCP\U2211B_TC_TMP-TMP-21_Phase02.dgn
 AT T237459
 idonidson

- ① **BERKLEY ST** SP 24" X 18"
DETOUR M4-8 24" X 12"
 M6-1 21" X 15"
- ② **BERKLEY ST** SP 24" X 18"
DETOUR M4-8 24" X 12"
 M6-1 21" X 15"
- ③ **END DETOUR** M4-8 A 24" X 18"
- ④  R11-4 60" X 30"
M4-10R 48" X 18"
TYPE III BARRICADE
- ⑤  R11-2 48" X 30"
M4-10L 48" X 18"
TYPE III BARRICADE
- ⑥  R11-2 48" X 30"
TYPE III BARRICADE(S)
- ⑦  R11-4 60" X 30"
TYPE III BARRICADE




DETAIL 31
PHASE II

NOTE: SEE RSD 1101.03 SHEETS 1 AND 2 OF 9 FOR ADDITIONAL SIGNING REQUIRED FOR ROAD CLOSURE


SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____



SEAL

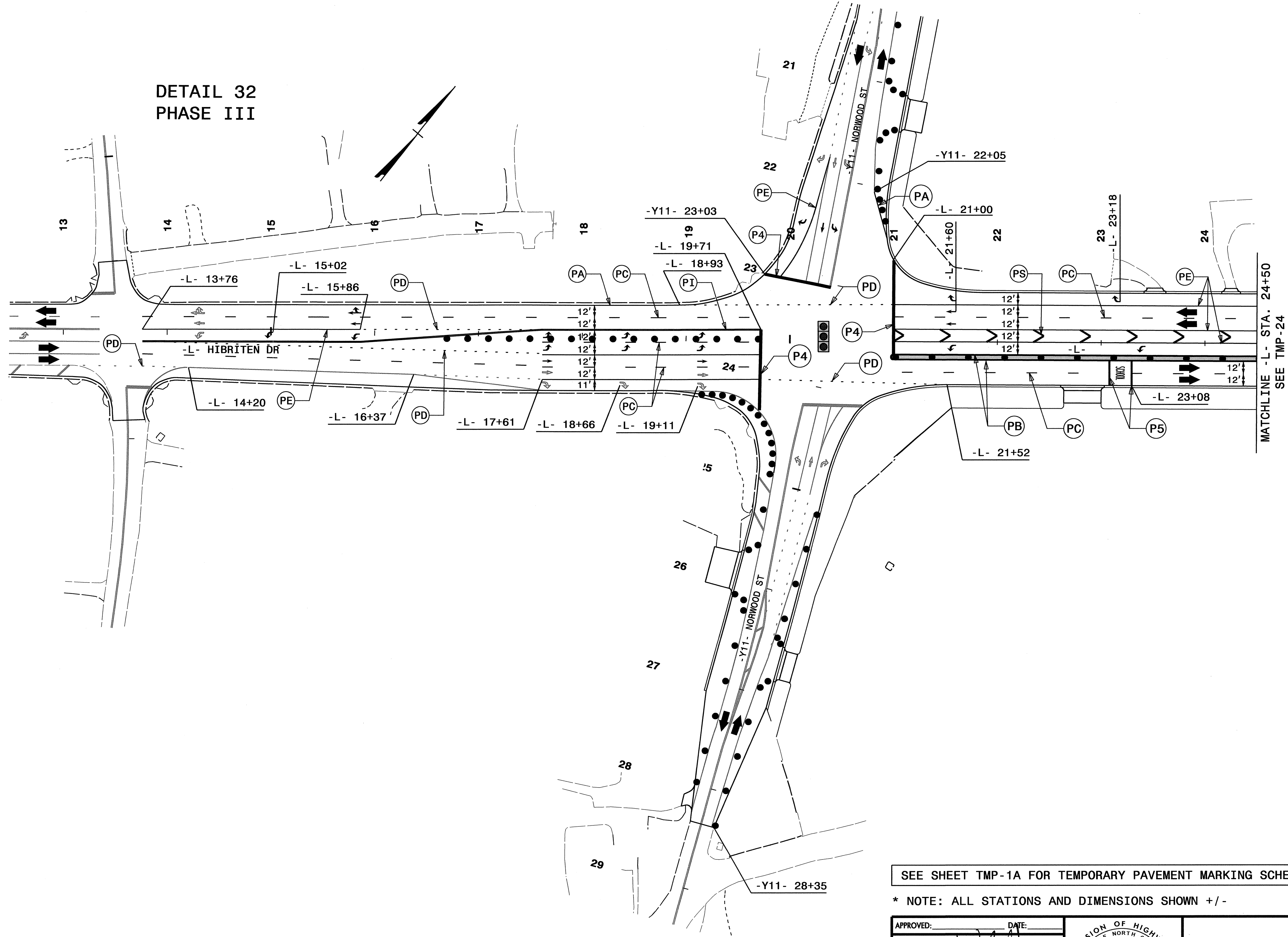


DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

PHASE II
DETAIL 31

30-JAN-2012 15:54 \\c01\dfs\o\01\TIPProjects-U2211B\TrafficControl\TCP\U2211B_TC_TMP_TMP-22_Phase02_L1STEP.dgn

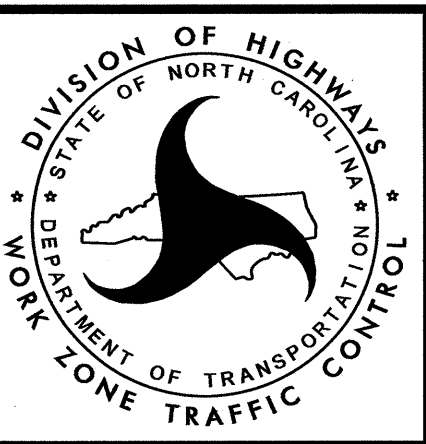
DETAIL 32
PHASE III



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

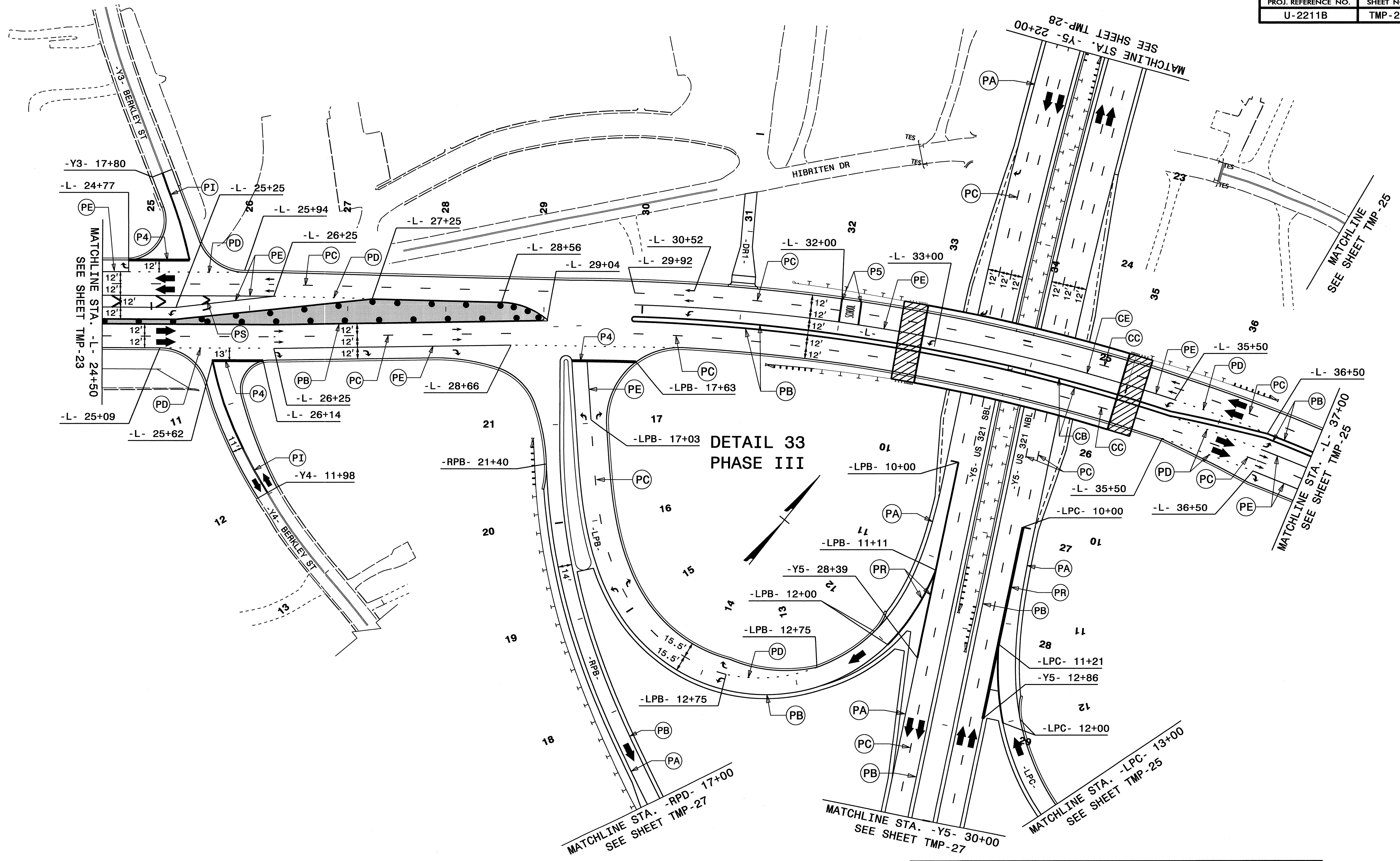
* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED:	DATE:
	1/31/12



PHASE III
DETAIL 32

27-JAN-2012 16:48
 \\dot\dfs\0010\proj\TIP\Projects-U\2211B\TrafficControl\TCP\U2211B_TC_TMP-TMP-23_Phase03.dgn
 idonldson AT TE237459



**DETAIL 33
PHASE III**

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

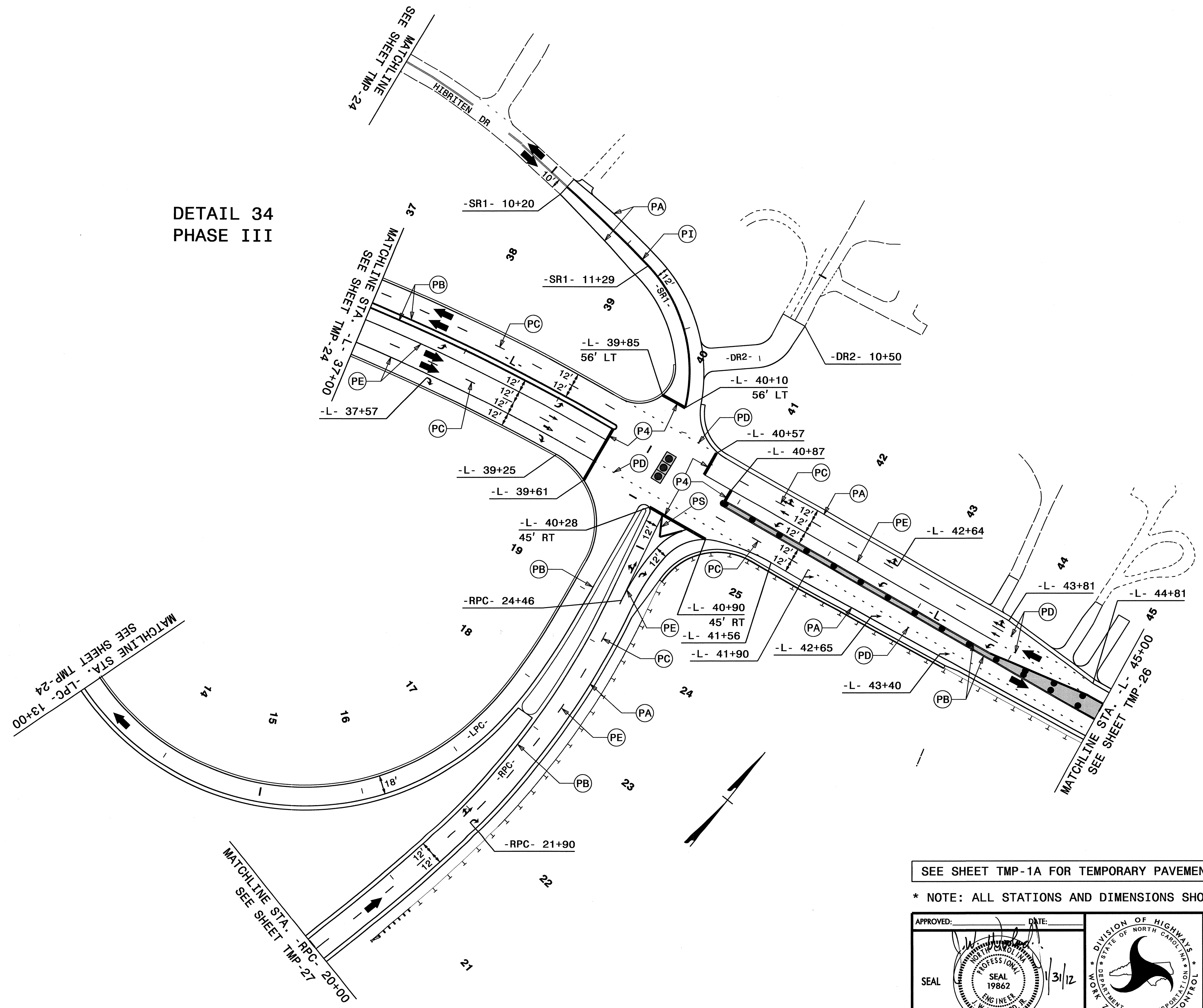
APPROVED: _____ DATE: 1/31/12

SEAL

**PHASE III
DETAIL 33**

30-JAN-2012 08:51
 \\dot\dfs\root\proj\TIP\Projects-U\2211B\TrafficControl\U2211B.TC.TMP-TMP-24_Phase03.dgn
 idonaldson AT 1E237459

DETAIL 34
PHASE III



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

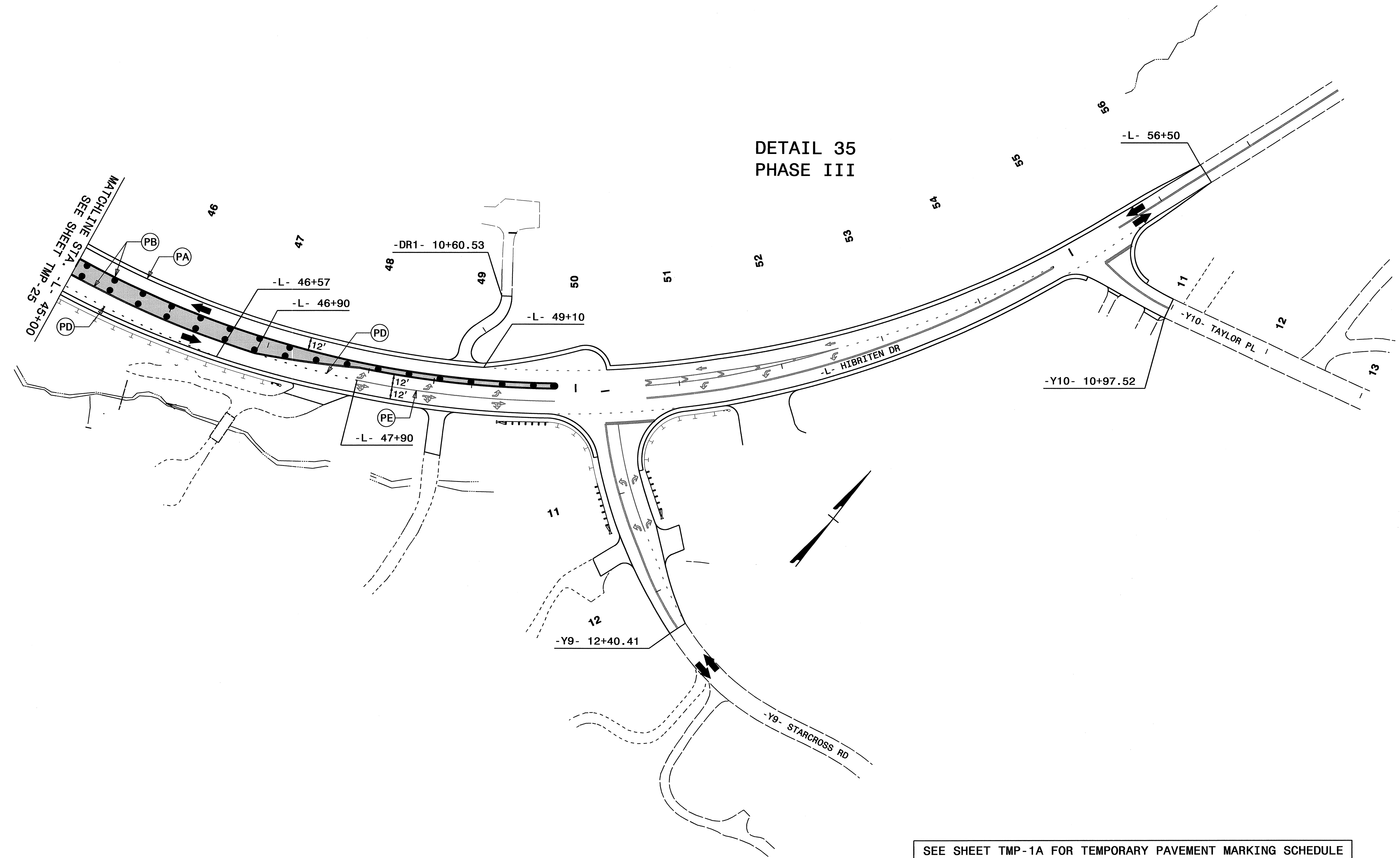
APPROVED: _____ DATE: 1/31/12

SEAL

PHASE III
DETAIL 34

27-JAN-2012 16:36
 \\dot\dfs\0070\proj\TIP\Projects-U\2211B\TrafficControl\TCP\U2211B_TC_TMP-TMP-25_Phase03.dgn
 idonldson AT TE237459

DETAIL 35
PHASE III

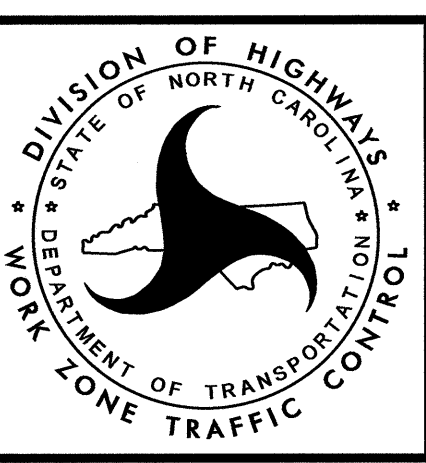


SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

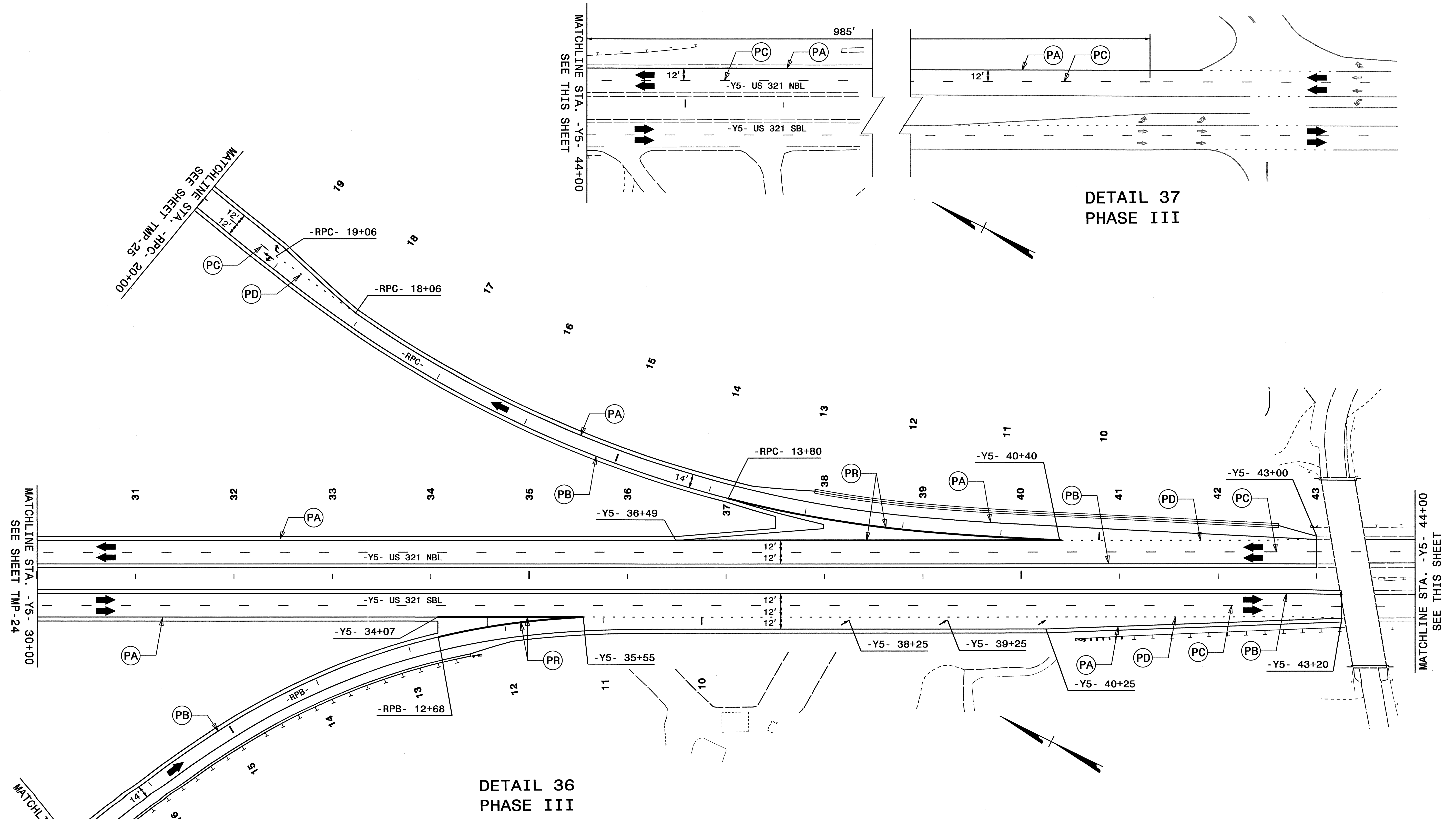
APPROVED: _____ DATE: 1/31/12

SEAL



PHASE III
DETAIL 35

27-JAN-2012 16:26
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 idonadson AT 1237459

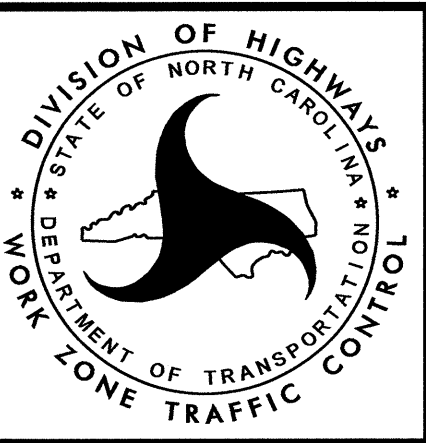


SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

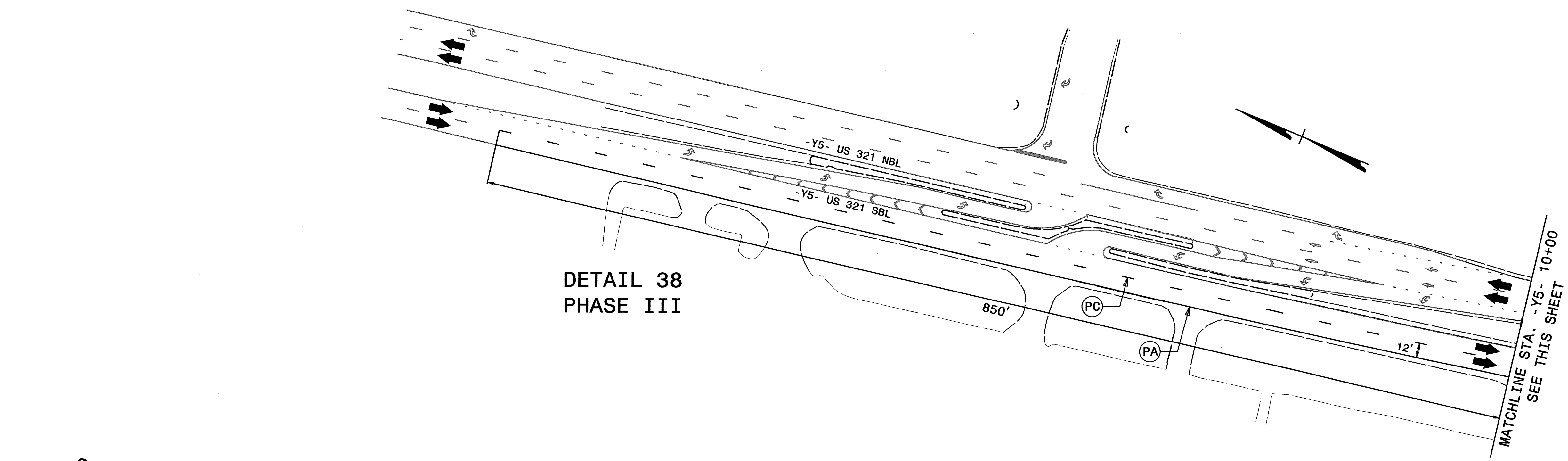
APPROVED: _____ DATE: 1/31/12

SEAL

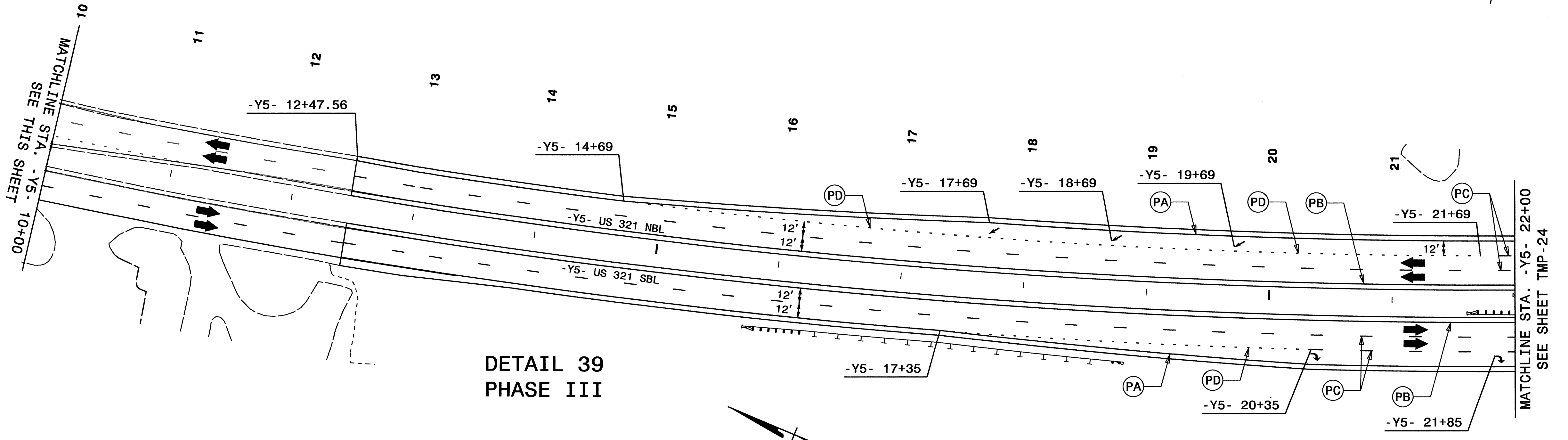


PHASE III
DETAILS 36 - 37

27-JAN-2012 16:24
 \\dot\dfs\oo\proj\proj\TrafficControl\U2211B\TrafficControl\U2211B_TC_TMP-TMP-27_Phase03.dgn
 idonaldson AT TE237459



DETAIL 38
PHASE III



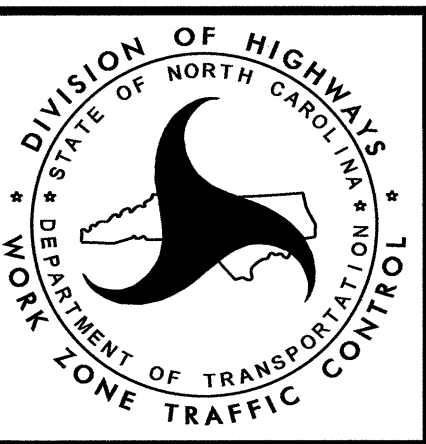
DETAIL 39
PHASE III

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: 1/31/12

SEAL



PHASE III
DETAILS 38 - 39

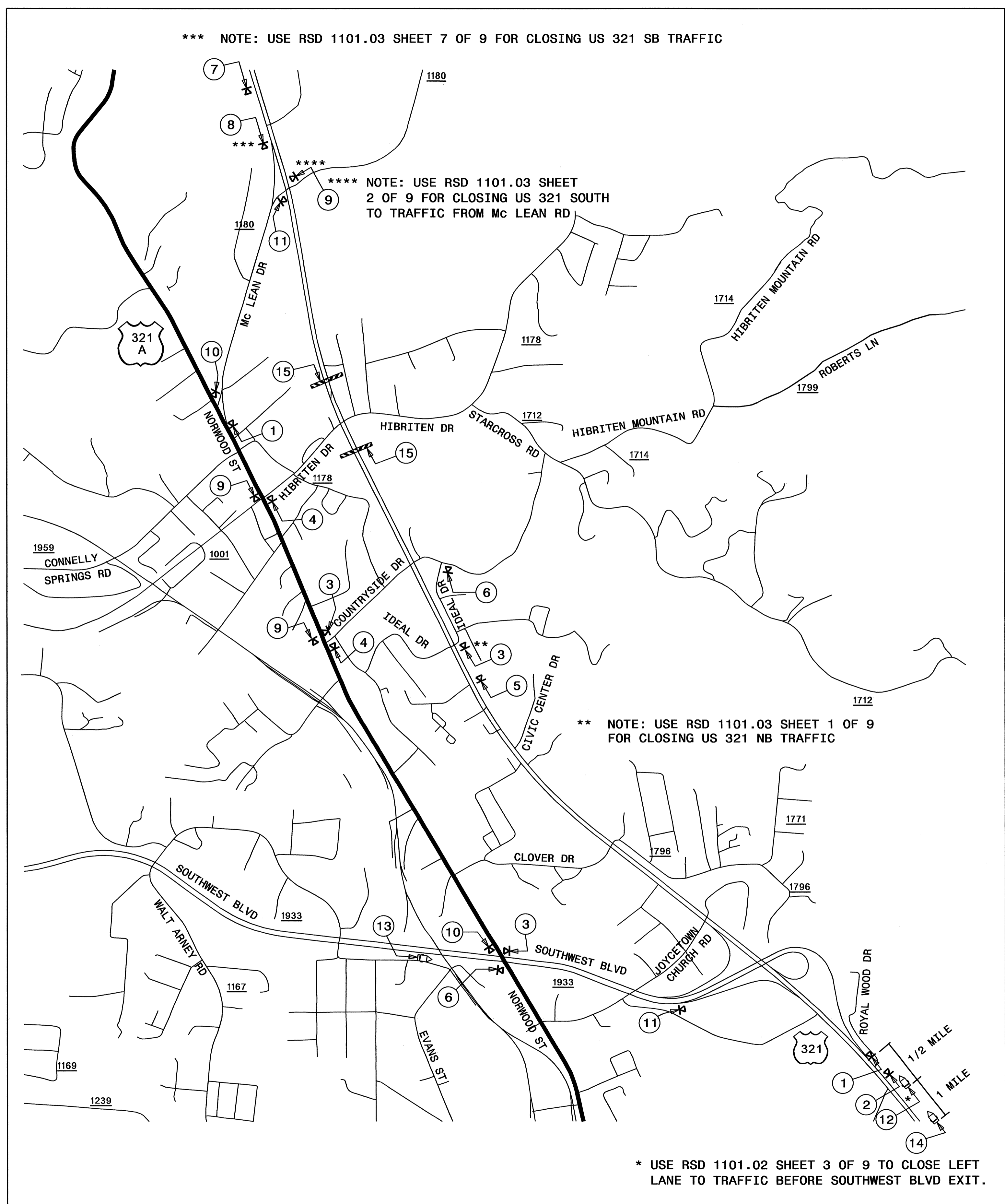
27-JAN-2012 16:21
 \\dot\dfs\0010\proj\TIP\Projects-U\U2211B\TrafficControl\TCP\U2211B_TC_TMP-TMP-28_Phase03.dgn
 idonidson AT 12237459

*** NOTE: USE RSD 1101.03 SHEET 7 OF 9 FOR CLOSING US 321 SB TRAFFIC

**** NOTE: USE RSD 1101.03 SHEET 2 OF 9 FOR CLOSING US 321 SOUTH TO TRAFFIC FROM Mc LEAN RD

** NOTE: USE RSD 1101.03 SHEET 1 OF 9 FOR CLOSING US 321 NB TRAFFIC

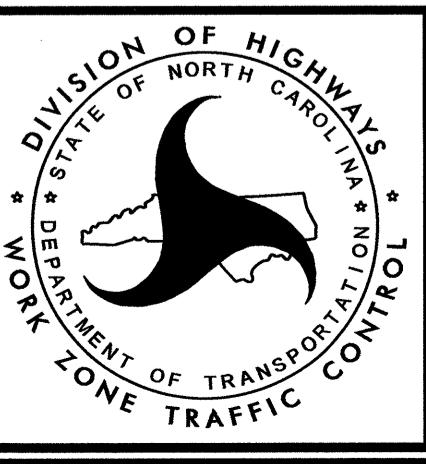
* USE RSD 1101.02 SHEET 3 OF 9 TO CLOSE LEFT LANE TO TRAFFIC BEFORE SOUTHWEST BLVD EXIT.



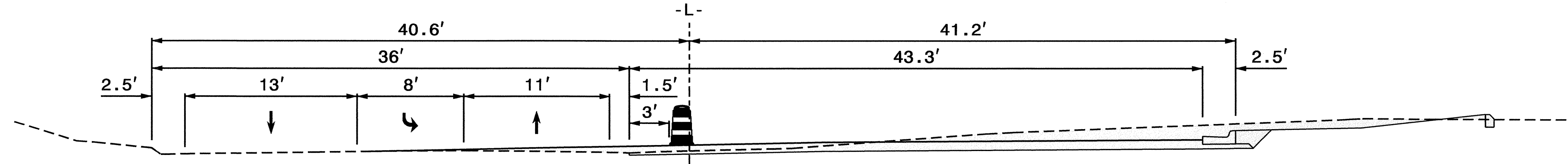
- | | | | | | |
|---|---|---|---|----|--|
| 1 | 321 NORTH
DETOUR
M1-4
M3-1 24" X 12"
M4-8 24" X 12"
M6-2 21" X 15" | 5 | 321 NORTH
DETOUR
M1-4
M3-1 24" X 12"
M4-8 24" X 12"
M5-1 R 21" X 15" | 9 | 321 SOUTH
DETOUR
M1-4
M3-3 24" X 12"
M4-8 24" X 12"
M6-3 21" X 15" |
| 2 | 321 NORTH
DETOUR
M1-4
M3-1 24" X 12"
M4-8 24" X 12"
M5-2 R 21" X 15" | 6 | 321 NORTH
DETOUR
M1-4
M3-1 24" X 12"
M4-8 24" X 12"
M6-1 L 21" X 15" | 10 | 321 SOUTH
DETOUR
M1-4
M3-3 24" X 12"
M4-8 24" X 12"
M6-1 L 21" X 15" |
| 3 | 321 NORTH
DETOUR
M1-4
M3-1 24" X 12"
M4-8 24" X 12"
M6-1 R 21" X 15" | 7 | 321 SOUTH
DETOUR
M1-4
M3-3 24" X 12"
M4-8 24" X 12"
M5-2 R 21" X 15" | 11 | END DETOUR
M4-8 A 24" X 18" |
| 4 | 321 NORTH
DETOUR
M1-4
M3-1 24" X 12"
M4-8 24" X 12"
M6-3 21" X 15" | 8 | 321 SOUTH
DETOUR
M1-4
M3-3 24" X 12"
M4-8 24" X 12"
M6-2 21" X 15" | 12 | MESSAGE NO. 1
ROAD CLOSED AHEAD
MESSAGE NO. 2
THRU TRAFFIC EXIT
CHANGEABLE MESSAGE SIGN |
| | | | | 13 | MESSAGE NO. 1
US 321 N THRU TRAFFIC
MESSAGE NO. 2
DETOUR NEXT LEFT
CHANGEABLE MESSAGE SIGN |
| | | | | 14 | MESSAGE NO. 1
US 321 THRU TRAFFIC
MESSAGE NO. 2
DETOUR NEXT EXIT
CHANGEABLE MESSAGE SIGN |
| | | | | 15 | R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE(S) |

27-JAN-2012 16:42
C:\dot\gfr\oof\Proj\TIPProjects-U2211B\TrafficControl\CP\U2211B_TC_TMP-TMP-29.dgn
idonaldson AT T237459

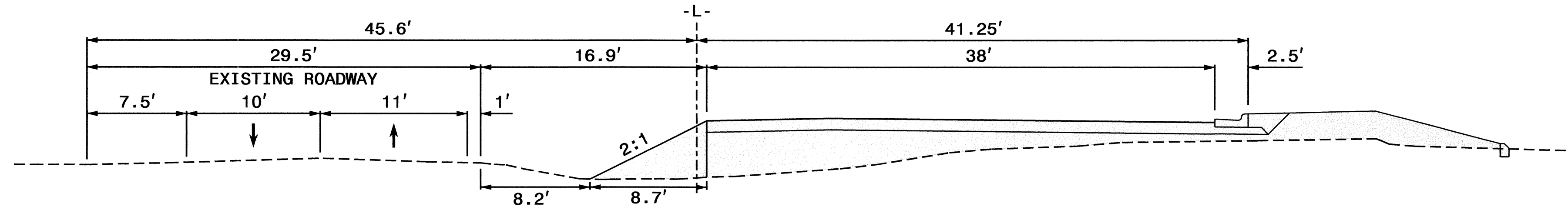
APPROVED: DATE: 1/31/12



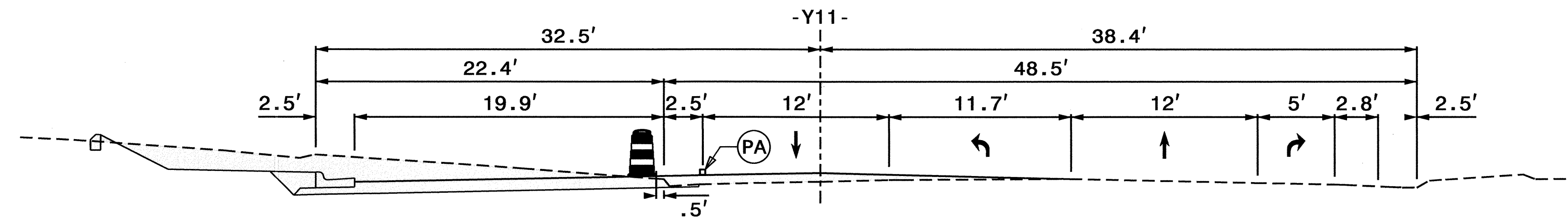
DETOUR - US 321



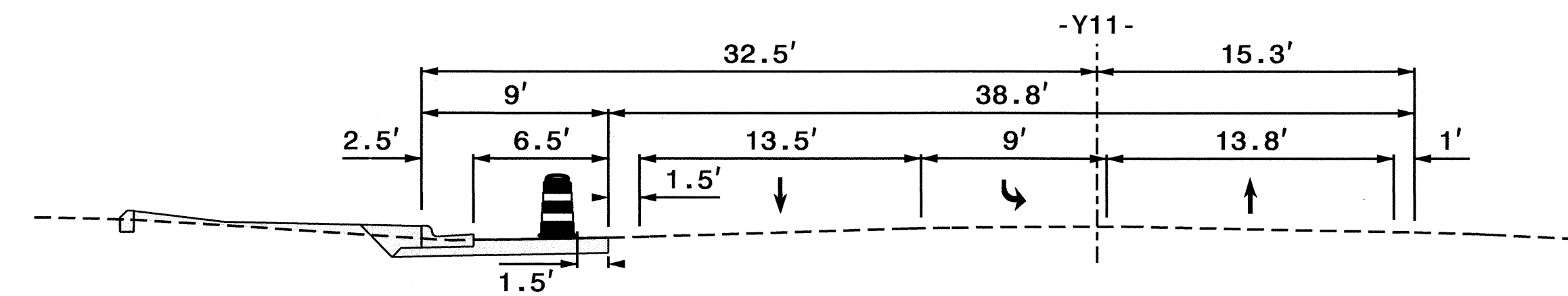
SECTION AA
05/30 STATION -L- 22+00



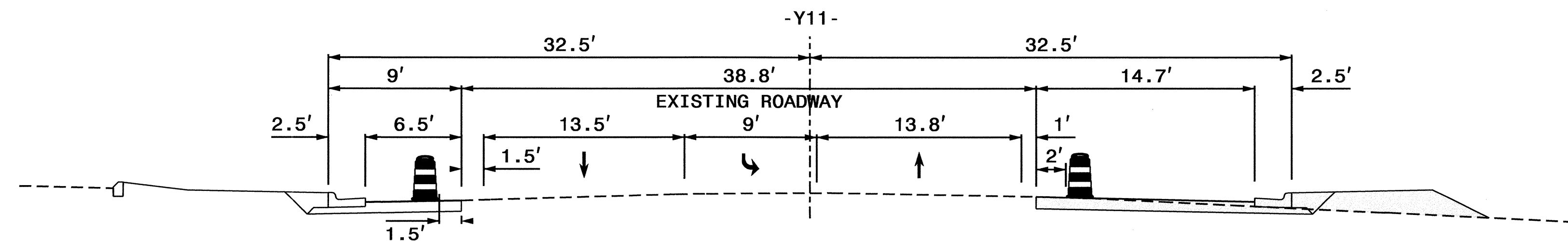
SECTION AB
05/30 STATION -L- 24+00



SECTION AC
05/30 STATION -Y11- 21+00



SECTION AD
05/30 STATION -Y11- 26+00

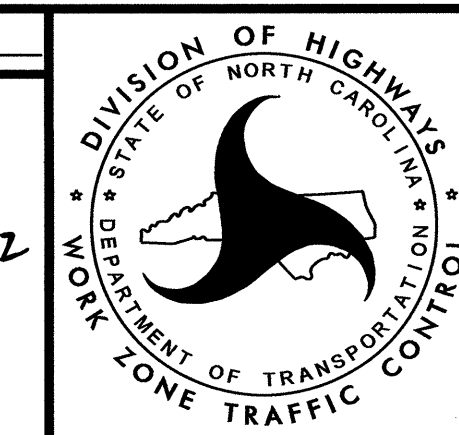


SECTION AE
06/30 STATION -Y11- 26+00

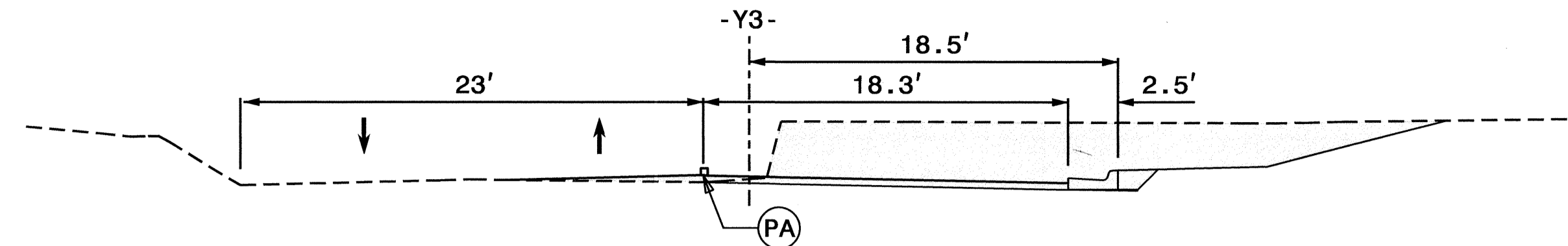
SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

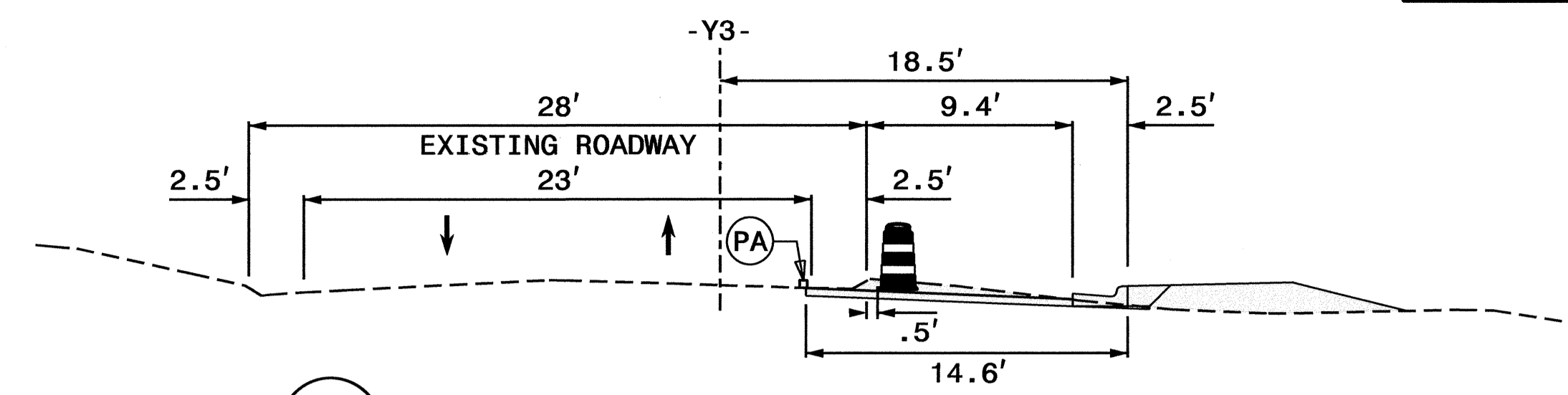
APPROVED:	DATE:
	1/31/12



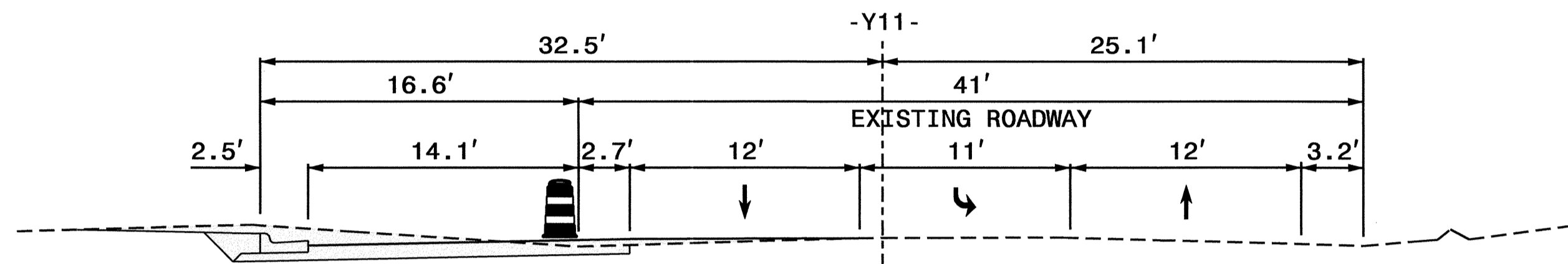
PHASE I
SECTIONS AA - AE



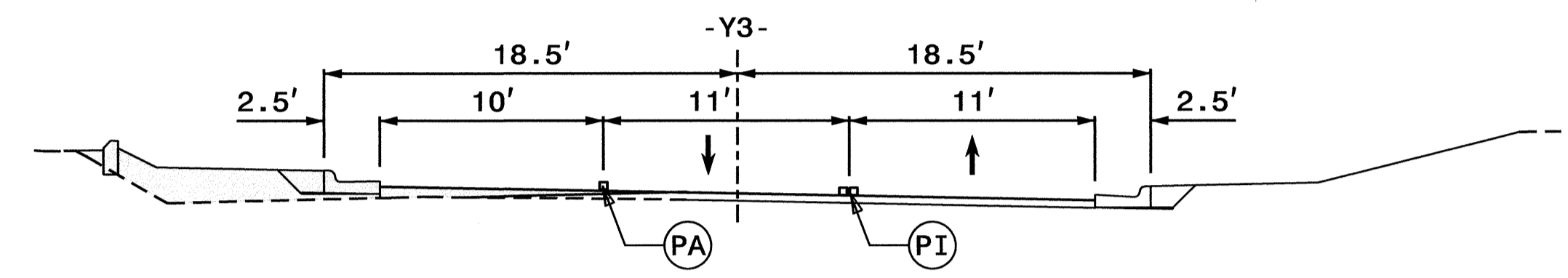
SECTION $\frac{AF}{07|31}$ STATION -Y3REV- 11+00



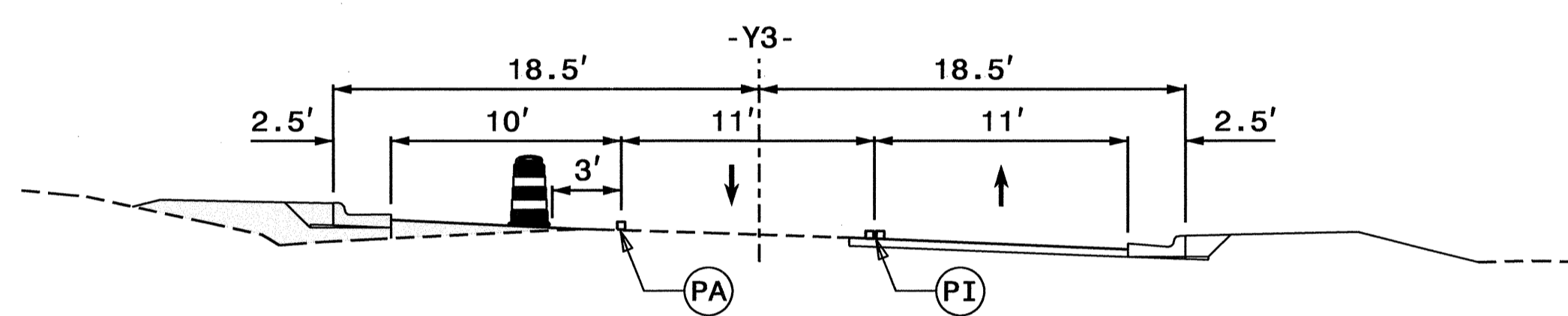
SECTION $\frac{AG}{07|31}$ STATION -Y3REV- 13+00



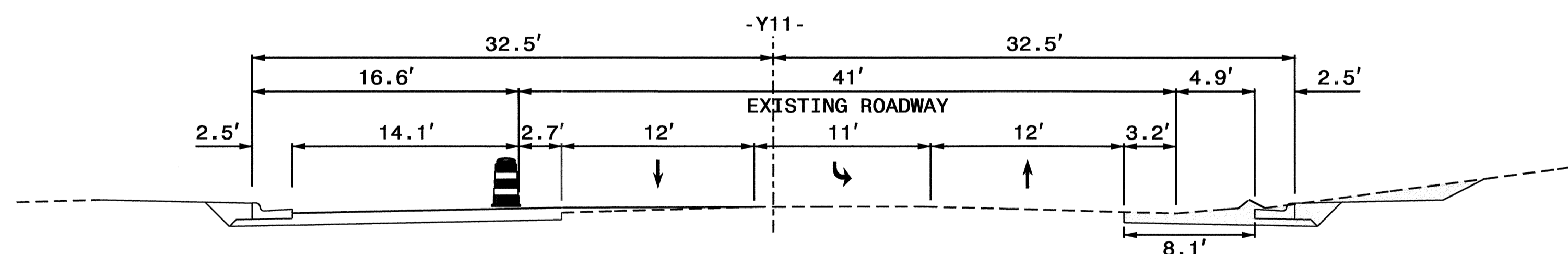
SECTION $\frac{AH}{07|31}$ STATION -Y11- 18+00



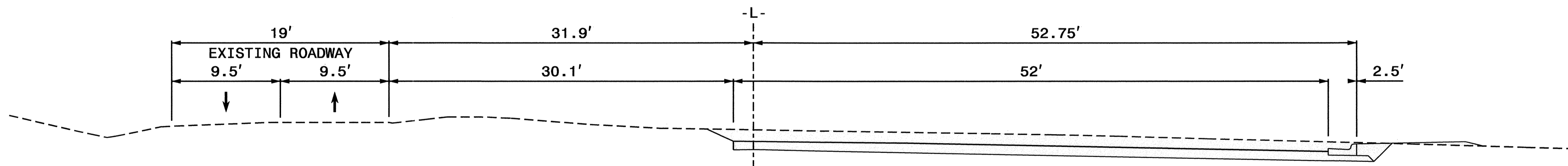
SECTION $\frac{AI}{07|31}$ STATION -Y3REV- 11+00



SECTION $\frac{AJ}{07|31}$ STATION -Y3REV- 13+00



SECTION $\frac{AK}{07|31}$ STATION -Y11- 18+00

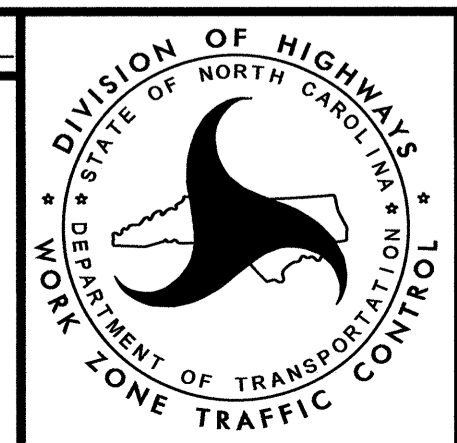


SECTION $\frac{AL}{08|31}$ STATION -L- 26+50

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

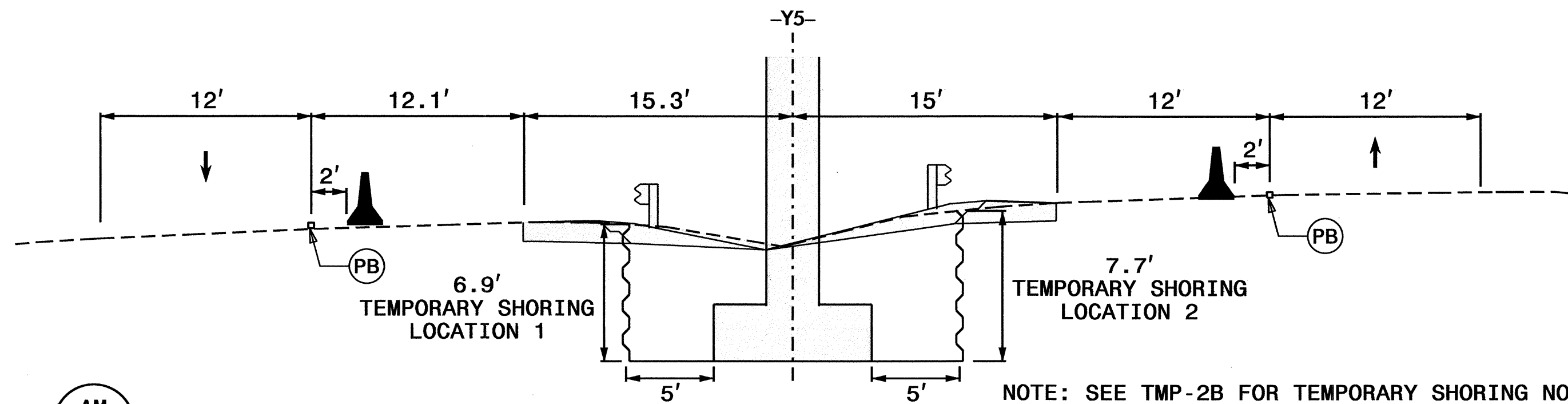
* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: DATE: 1/31/12



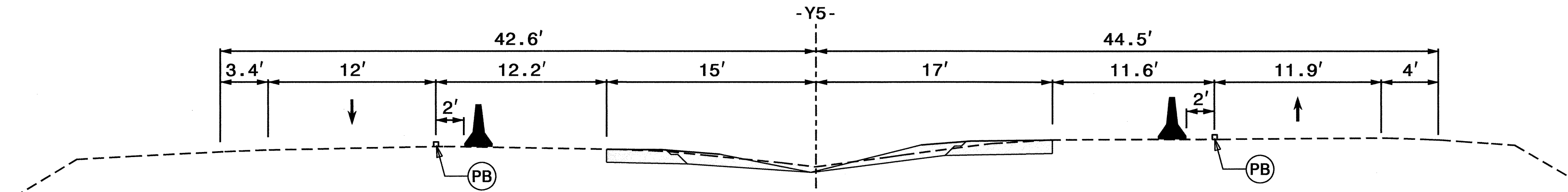
PHASE I
SECTIONS AF - AL

27-JAN-2012 16:10 \\dot\dfs\0070\proj\TIP\Projects-U\2211B\TrafficControl\TCP\U2211B_TC_TMP-TMP-31.dgn idonldson AT T237459

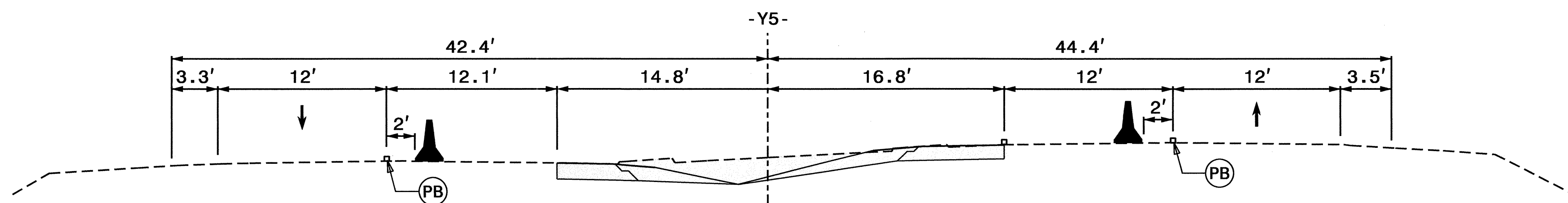


SECTION $\frac{AM}{08/32}$ STATION -Y5- 25+00

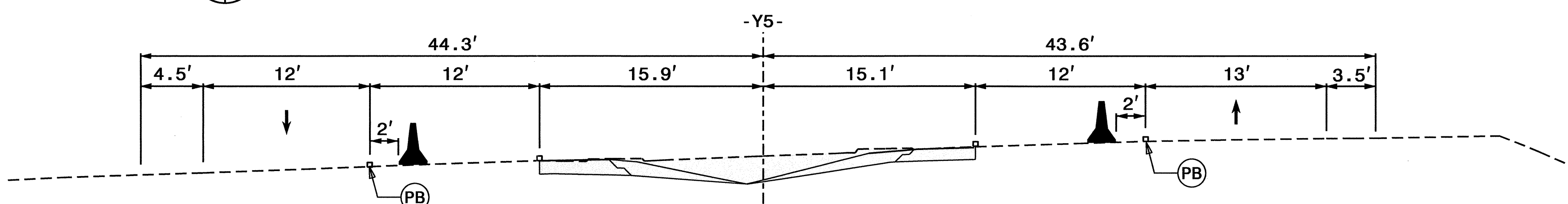
NOTE: SEE TMP-2B FOR TEMPORARY SHORING NOTES



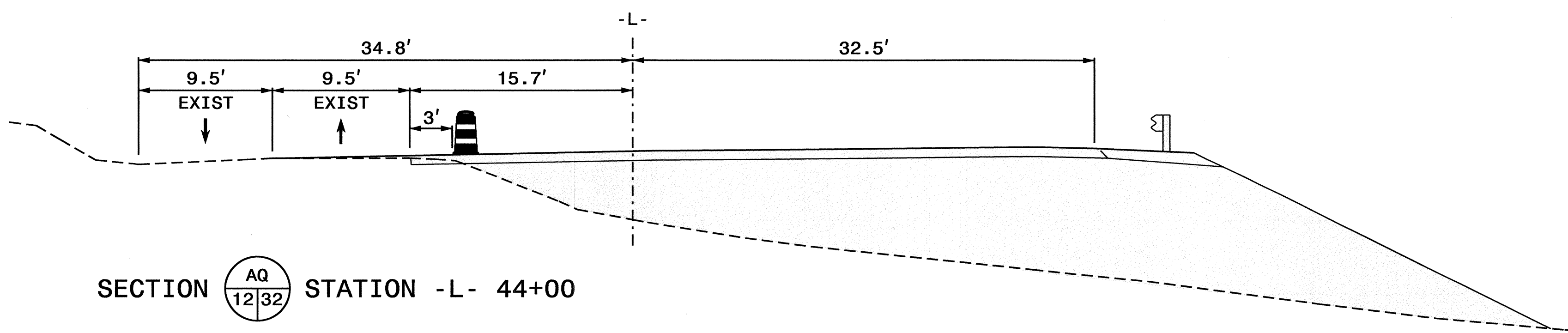
SECTION $\frac{AN}{09/32}$ STATION -Y5- 31+00



SECTION $\frac{AO}{09/32}$ STATION -Y5- 33+00



SECTION $\frac{AP}{11/32}$ STATION -Y5- 18+00



SECTION $\frac{AQ}{12/32}$ STATION -L- 44+00

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

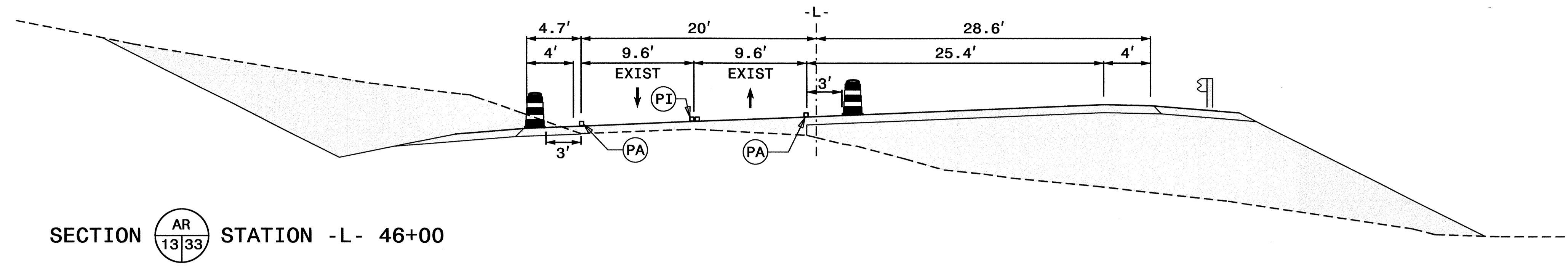
* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: 1/31/12

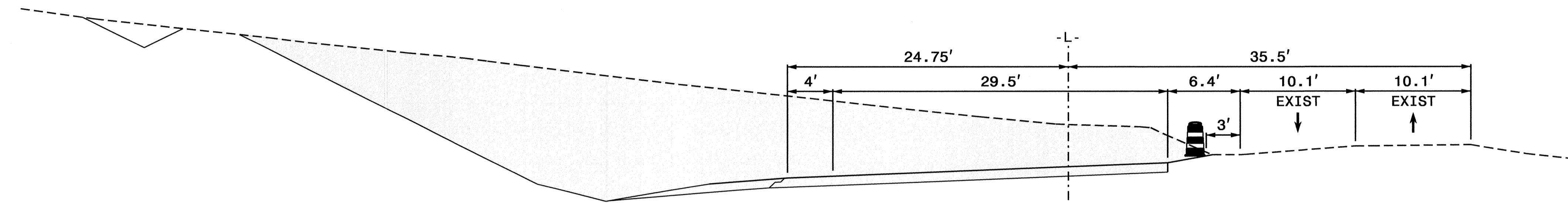
SEAL

PHASE I
SECTIONS AM - AQ

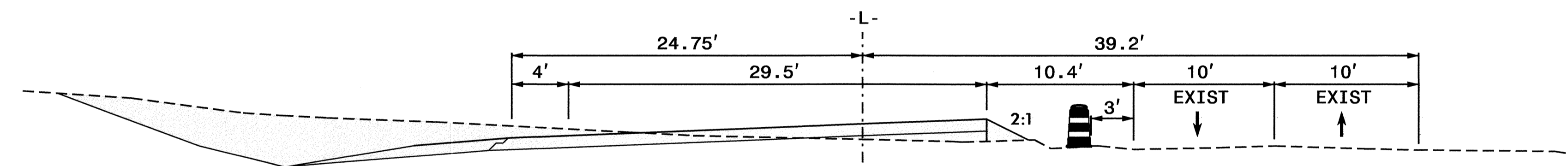
27-JAN-2012 16:05 \\dot\dfsroot\proj\TIP\Projects-U\2211B\TrafficControl\TCP\U2211B_TC_TMP-TMP-32.dgn AT TE237459



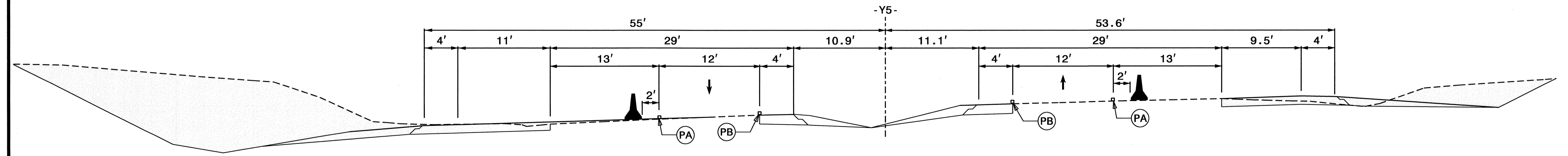
SECTION AR
13|33 STATION -L- 46+00



SECTION AS
13|33 STATION -L- 48+00



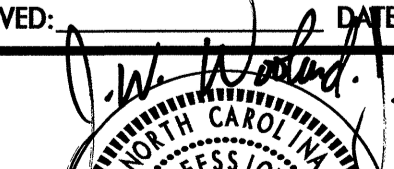
SECTION AT
13|33 STATION -L- 51+00

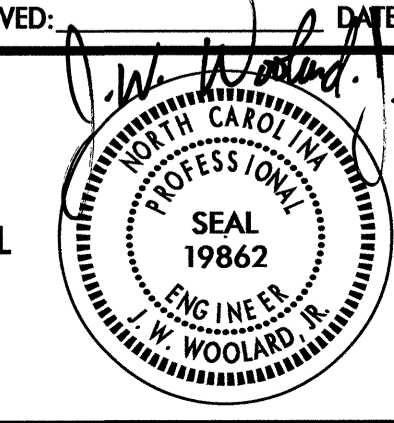


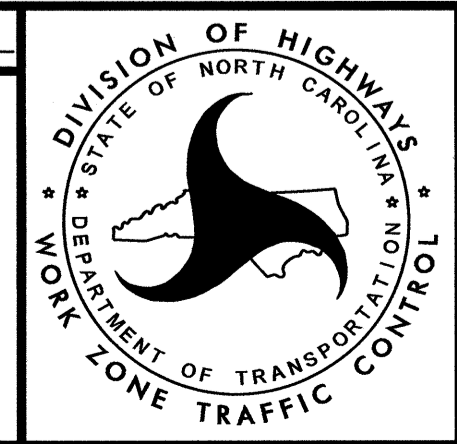
SECTION AU
14|33 STATION -Y5- 20+00

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

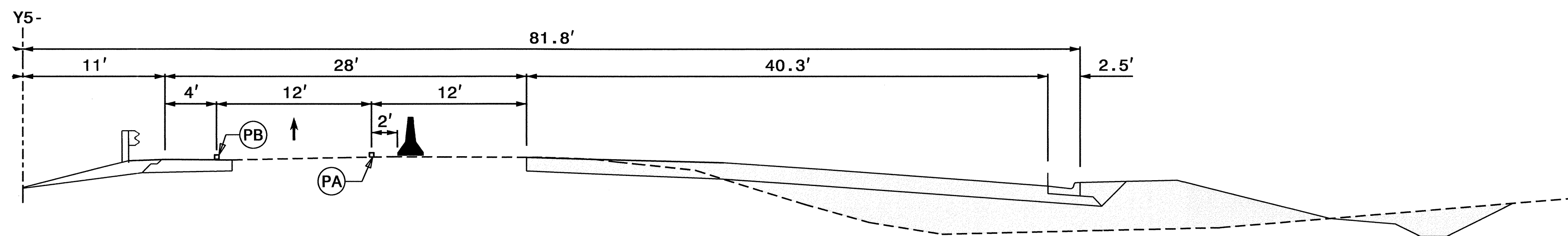
APPROVED:  DATE: 1/31/12

SEAL 

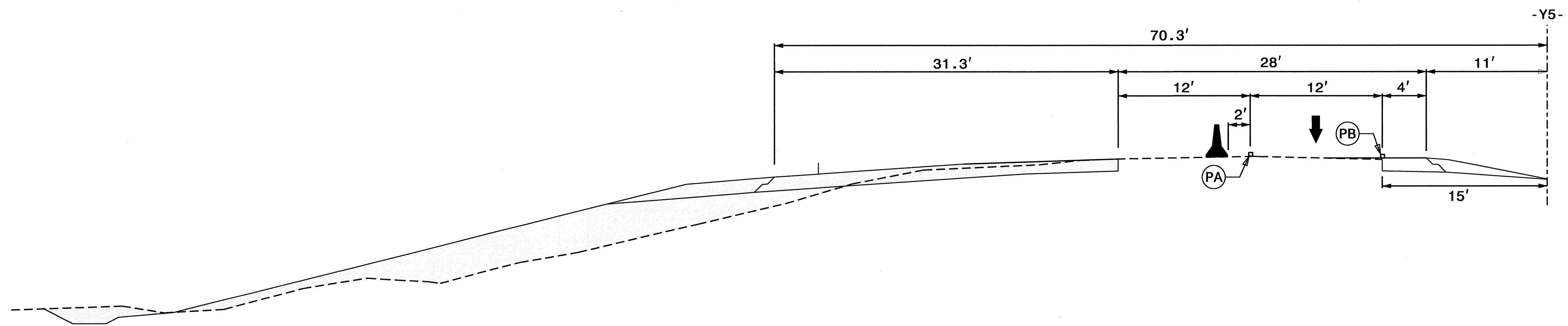


PHASE I
SECTIONS AR - AU

27-JAN-2012 16:04 \\dot\dfs\0010\proj\TIP\Projects-U\U2211B\Traffic\TrafficControl\TCP\U2211B_TC_TMP-TMP-33.dgn idonldson AT TE237459



SECTION AV
15/34 STATION -Y5- 28+00 SBL

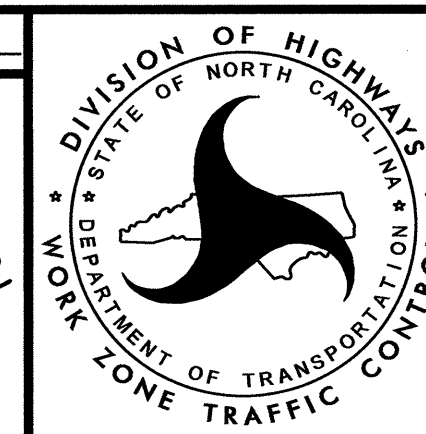


SECTION AW
15/34 STATION -Y5- 28+50 NBL

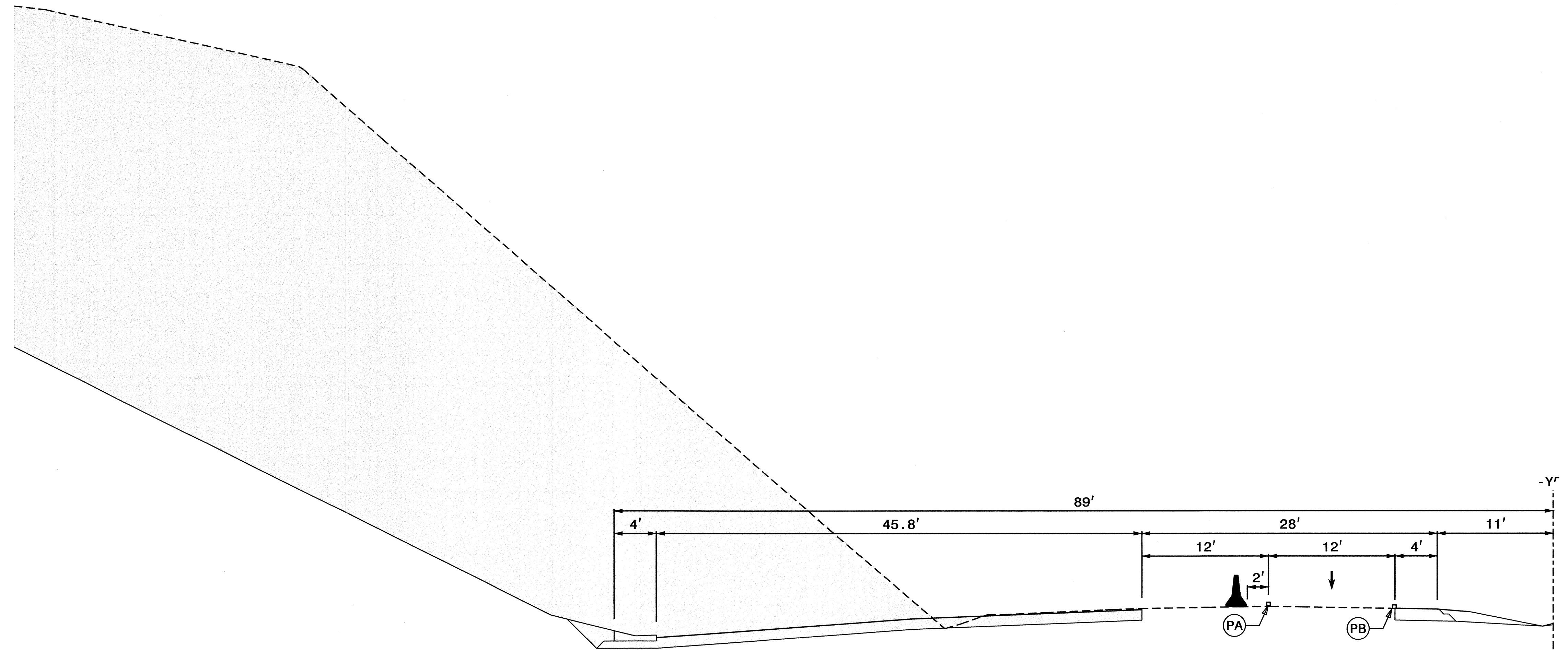
SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

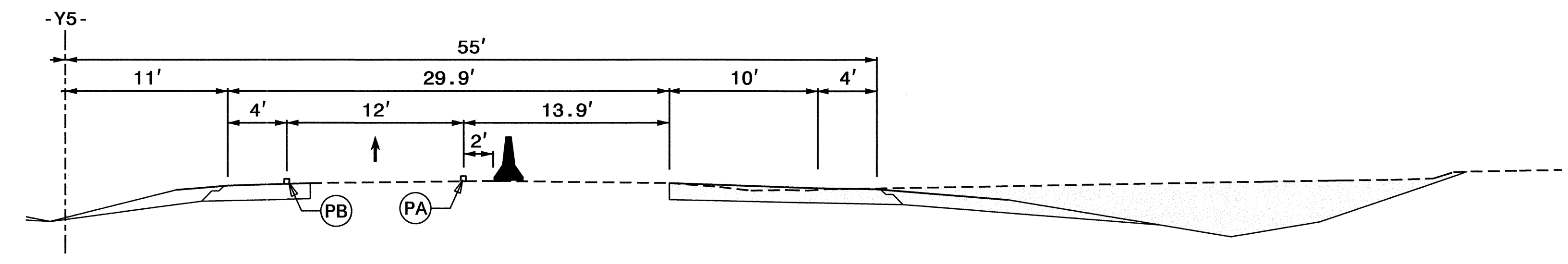
APPROVED: DATE: 1/31/12



PHASE I
SECTIONS AV - AW



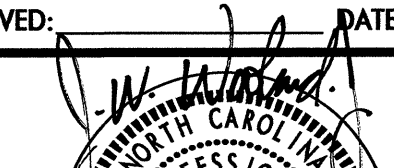
SECTION  STATION -Y5- 38+00 NBL

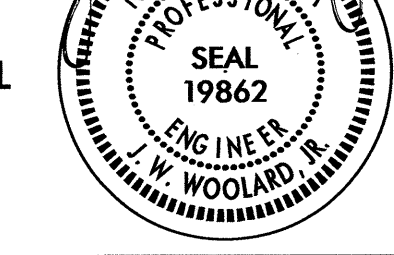



SECTION  STATION -Y5- 38+00 SBL

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED:  DATE: 1/31/12

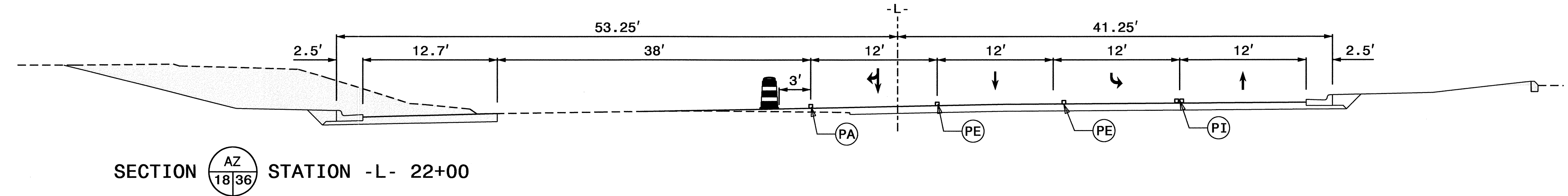
SEAL 



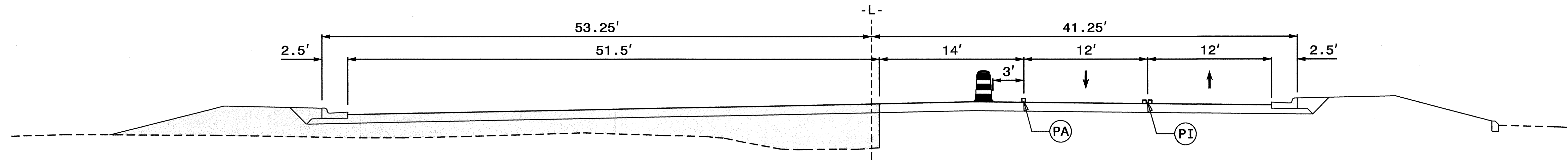
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

PHASE I
SECTIONS AX - AY

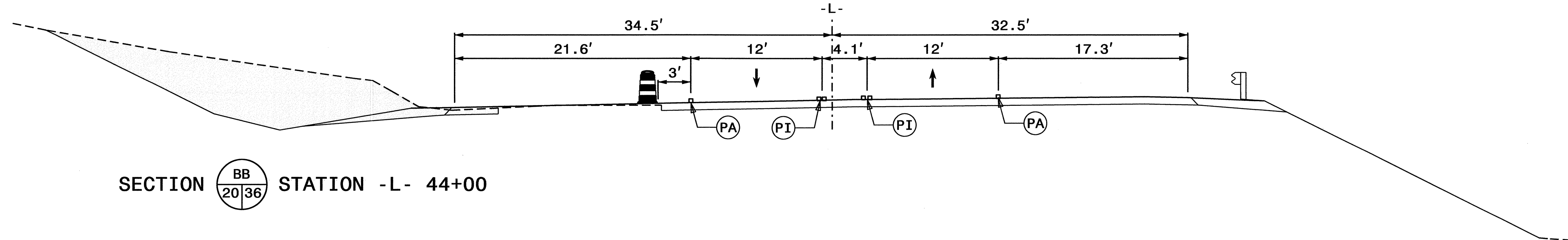
27-JAN-2012 16:02
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idondson AT 1E237459



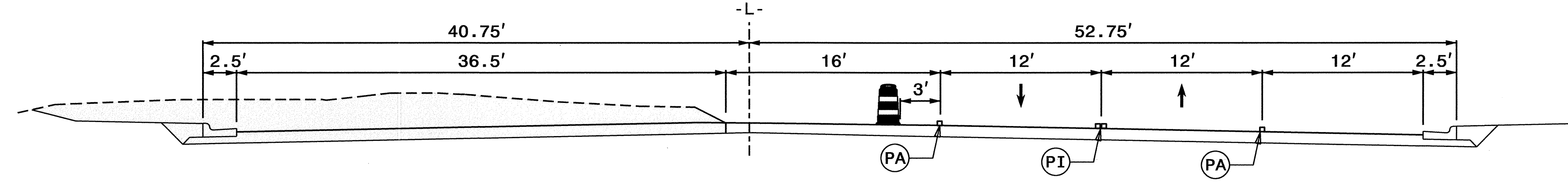
SECTION $\frac{AZ}{18|36}$ STATION -L- 22+00



SECTION $\frac{BA}{18|36}$ STATION -L- 24+00



SECTION $\frac{BB}{20|36}$ STATION -L- 44+00



SECTION $\frac{BC}{22|36}$ STATION -L- 26+50

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: DATE: 3/12



PHASE II
SECTIONS AZ - BC

27-JAN-2012 15:56
\\dot\dfs-0070\proj\TIPProjects-U2211B\TrafficControl\U2211B_TC_TMP-TMP-36.dgn
idondson AT 1237459