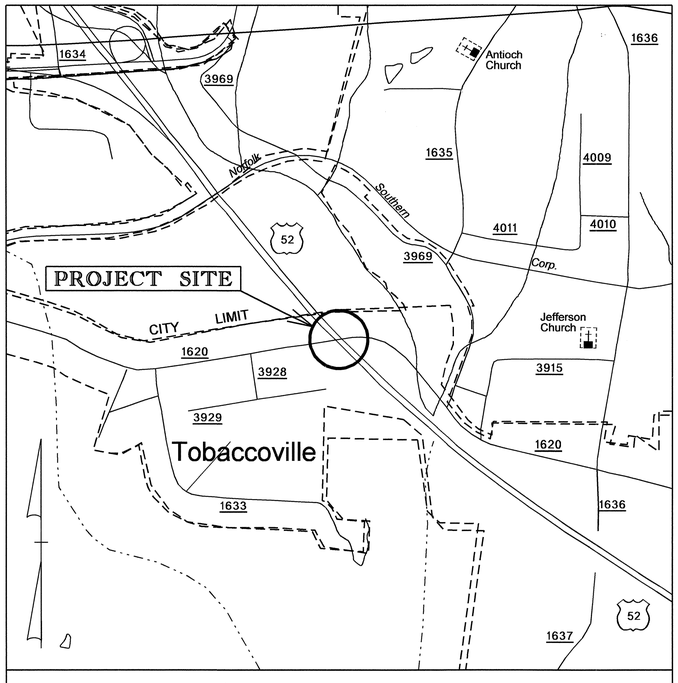
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

FORSYTH COUNTY



VICINITY MAP

INDEX OF SHEETS

SHEET NO.
TMP-1

B-4506

TIP PROJECT:

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. — STATE TRAFFIC MANAGEMENT ENGINEER
J. ISHAK, P.E. — TRAFFIC CONTROL PROJECT ENGINEER
_____ — TRAFFIC CONTROL PROJECT DESIGN ENGINEER
S. B. JENNINGS — TRAFFIC CONTROL DESIGN ENGINEER

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

APPROVED: Joseph Ishak
DATE: December 30, 2019

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

29-DEC-2011 15:30
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sbjennings AT TE224473I

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-1A

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 JANAUARY 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
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
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

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- REMOVAL
- CONCRETE LANE REPLACEMENT
- USER DEFINED (IF NEEDED)

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 TEMP TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

P6	WHITE EDGELINE - 6" (2X)
P7	YELLOW EDGELINE - 6" (2X)
PJ	10' WHITE SKIP - 6" (2X)
PA	WHITE EDGELINE - 4" (2X)
PB	YELLOW EDGELINE - 4" (2X)
PC	10' WHITE SKIP - 4" (2X)
PI	DOUBLE YELLOW CENTERLINE - 4" (2X)
MX	CRYSTAL & RED (2X)
MH	YELLOW & YELLOW (2X)

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028380 JOSEPH ISHAK

Jan 31 2012

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

ROADWAY STANDARD DRAWINGS & LEGEND

03-JAN-2012 10:40
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sdjennings AT TE244731

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-1B

MANAGEMENT STRATEGIES

TIME RESTRICTIONS FOR LANE CLOSURES WILL BE USED TO MITIGATE IMPACT OF WORK ZONE TO TRAFFIC DURING HIGH TRAFFIC TIMES.

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 AS FOLLOWS:

ROAD NAME		DAY AND TIME RESTRICTIONS
US 52S	MON - FRI	5:00 AM TO 9:00 AM
US 52N	MON - FRI	1:00 PM TO 8:00 PM

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

ROAD NAME

US 52

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 5:00 A.M. DECEMBER 31st TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.

3. FOR EASTER, BETWEEN THE HOURS OF 5:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.

4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 5:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 5:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Feb 22 2012

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

TRANSPORTATION OPERATIONS PLAN

22-FEB-2012 14:25
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sbjennings AT TE24473J

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-1C

GENERAL NOTES / LOCAL NOTES

9. FOR DIXIE CLASSIC FAIR, BETWEEN THE HOURS OF 5:00 A.M. THE DAY BEFOR THE DIXIE CLASSIC FAIR AND 8:00 P.M.THE DAY FOLLOWING THE DIXIE CLASSIC FAIR.

10. FOR WAKE FOREST HOME FOOTBALL GAMES, FOUR (4) HOURS BEFORE THE WAKE FOREST HOME FOOTBALL GAMES AND TWO (2) HOURS FOLLOWING THE GAMES.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 52	MON - SUN 5:00 AM TO 11:00 PM	15 MINUTES FOR TRAFFIC SHIFTS AND TIE-INS

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 2 MILES OF LANE CLOSURE ON US 52 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 52.

L) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

M) 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.

N) 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) 1000 IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

P) 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.

Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC BARRIER

R) 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.

S) 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

T) 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.

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.

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

ROAD NAME	MARKING	MARKER
US 52	PAINT	TEMPORARY RAISED
SR 1620	PAINT	TEMPORARY RAISED

W) 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.

X) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

LOCAL NOTES

A) CONTRACTOR MAY PLACE BREAKS IN THE TEMPORARY PORTABLE CONCRETE BARRIER (PCB) TO ALLOW INGRESS AND EGRESS TO THE WORK AREA. THE BREAKS IN THE PCB SHALL BE PLACED IN ACCORDANCE WITH RSD 1101.05 AND SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. ANY ADDITIONAL MEASURES NEEDED TO SAFE UP WORK ZONE ACCESSES WILL BE CONSIDERED INCIDENTAL AND AT NO COST TO THE DEPARTMENT.

B) COORDINATE WITH TRIAD TMC WHEN ROAD AND LANE CLOSURES ARE PLACED ON US 52.

APPROVED:_____ DATE:_____

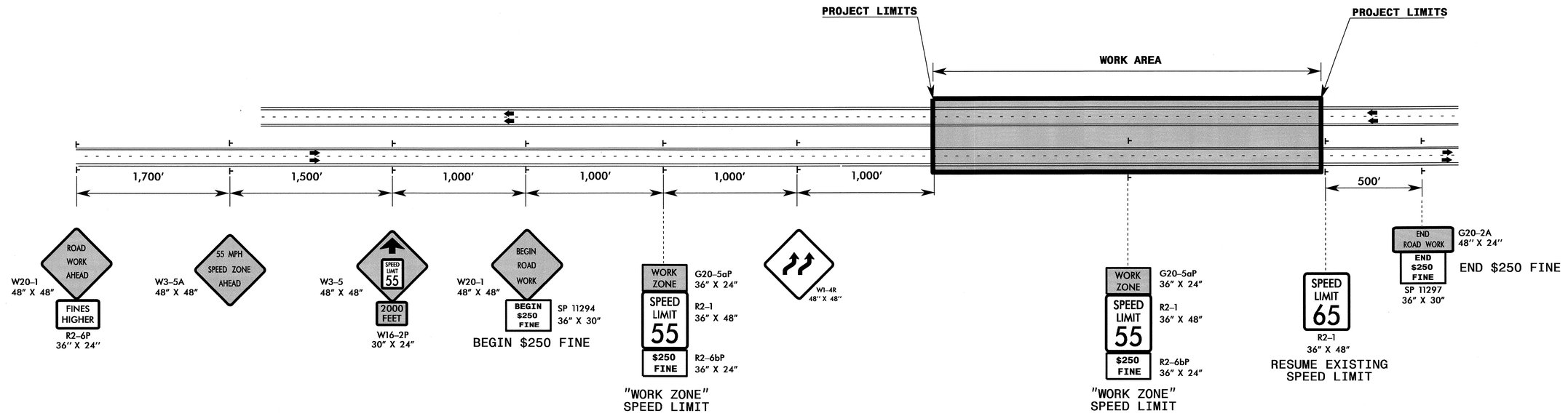
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028380 JOSEPH ISHAK

Feb 22, 2012

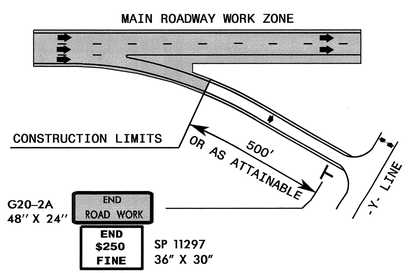
DIVISION OF HIGHWAYS * STATE OF NORTH CAROLINA * DEPARTMENT OF TRANSPORTATION * WORK ZONE TRAFFIC CONTROL

TRANSPORTATION OPERATIONS PLAN

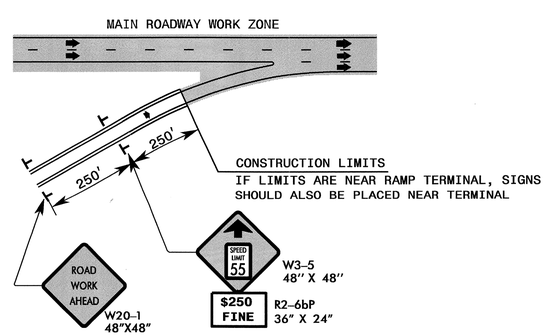
PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-2A



EXIT RAMPS



ENTRANCE RAMPS



NOTES

1) THE WORK ZONE SPEED LIMIT SIGNS ARE TO BE MOUNTED 7′ ABOVE EDGE OF PAVEMENT ELEVATION.
2) ADJUST LOCATIONS OF LANE CLOSURE SIGNS TO AVOID OVERLAP AND CLUTTER ON US 52.
3) ADDITIONAL "WORK ZONE SPEED LIMIT" SIGNS MAY BE NEEDED AS DETERMINED BY THE REGIONAL TRAFFIC ENGINEER.
4) USE THE SAME SETUP FOR BOTH DIRECTIONS ON US 52.

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Dec 30, 2011

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

"WORK ZONE" SPEED LIMIT REDUCTION

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-2B

BEGIN $250 FINE

SIGN NUMBER: SP11297
TYPE: E
QUANTITY: SEE PLANS

BACKG COLOR: White
COPY COLOR: Black

SIGN WIDTH: 3'-0"
HEIGHT: 2'-6"
TOTAL AREA: 7.5 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0.5"
WIDTH: 0.75"
RADII: 1.88"

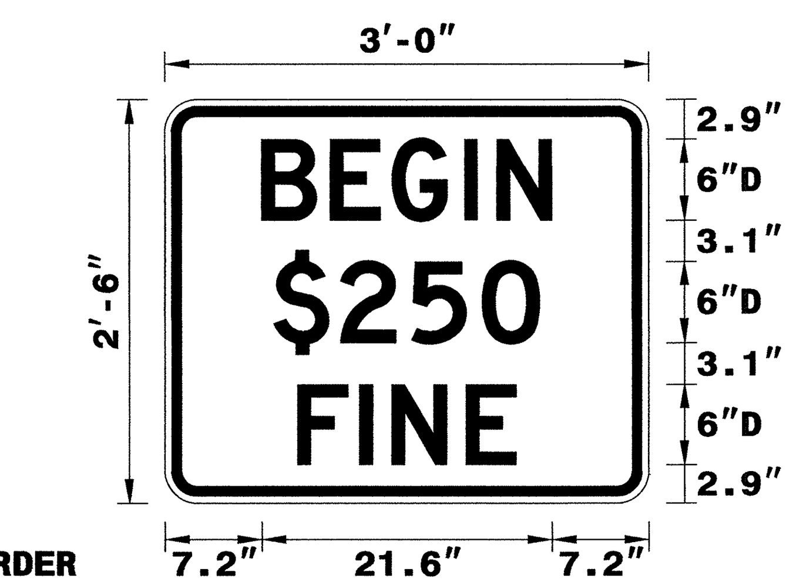
SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

NO. Z BARS:
LENGTH:

DESIGN BY: cwj
PROJECT ID: ALL
CHECKED BY: C. Howard
DIV: ALL
DATE: Jul 26, 2011

1. Legend and border shall be black.
2. Background shall be Grade C white reflective sheeting.



BORDER
R=1.88"
TH=0.75"
IN=0.5"

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

								Series/Size Text Length
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	7.2	5.1	4.6	5.4	2.4	4.1	7.2	21.6
		$	2	5	0			D 2000
	8.1	5	5.3	5.3	4.3	8.1		19.8
		F	I	N	E			D 2000
	9.9	4.6	2.4	5.5	3.7	9.9		16.3

FILENAME: BEGIN $250 Fine

NORTH CAROLINA D.O.T. SIGN DETAIL

END $250 FINE

SIGN NUMBER: SP11294
TYPE: E
QUANTITY: SEE PLANS

BACKG COLOR: White
COPY COLOR: Black

SIGN WIDTH: 3'-0"
HEIGHT: 2'-6"
TOTAL AREA: 7.5 Sq.Ft.

BORDER TYPE: INSET
RECESS: 0.5"
WIDTH: 0.75"
RADII: 1.88"

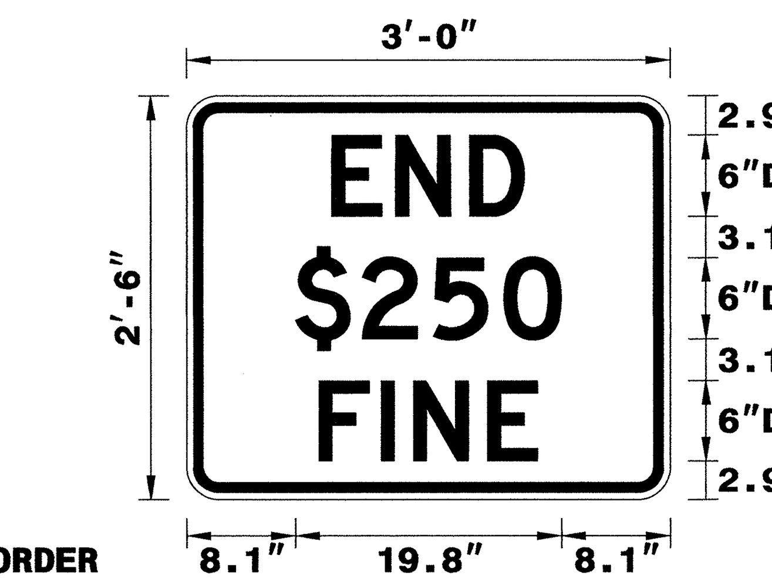
SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

NO. Z BARS:
LENGTH:

DESIGN BY: cwj
PROJECT ID: ALL
CHECKED BY: C. Howard
DIV: ALL
DATE: Jul 26, 2011

1. Legend and border shall be black.
2. Background shall be Grade C white reflective sheeting.



BORDER
R=1.88"
TH=0.75"
IN=0.5"

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

							Series/Size Text Length
		E	N	D			D 2000
	10.8	4.7	5.5	4.1	10.8		14.3
		$	2	5	0		D 2000
	8.1	5	5.3	5.3	4.3	8.1	19.8
		F	I	N	E		D 2000
	9.9	4.6	2.4	5.5	3.7	9.9	16.3

FILENAME: END $250 FINE_

NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: [signature] DATE: 1/3/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 022959 ENGINEER RONALD W. KING

SCALE: NONE
DATE: 1/12
DWG. BY:
DESIGN BY:
REVIEWED BY: C. Howard

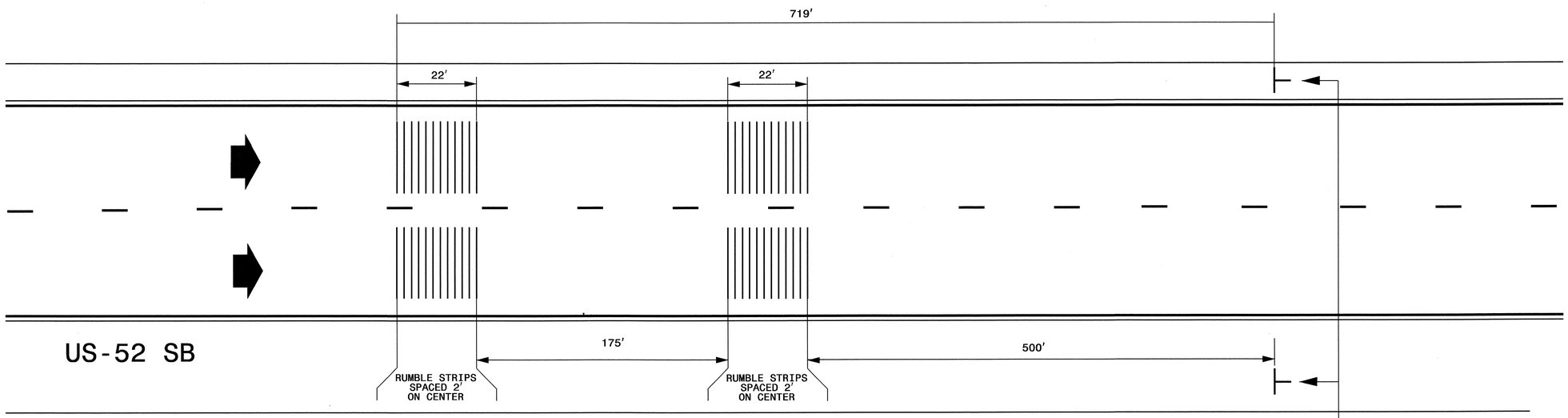
REVISIONS

CADD FILE

03-JAN-2012 15:33
P:\TIPProjects-B\B4640\Traffic\Signing\CADD\Sign Designs\BEGIN AND END $250 FINE.dgn
sjohns AT TE247957

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-2C

4-LANE, 2-WAY APPLICATION



NOTES

- ALL RUMBLE STRIPS SHALL BE CENTERED IN THE LANE AND SHALL BE 2' LESS THAN THE WIDTH OF THE TRAVEL LANE.
- REFER TO SHEET TMP-2A FOR WORK ZONE SPEED LIMIT SIGN PLACEMENT.
- PLACE RUMBLE STRIPS IN SOUTH BOUND LANES ONLY

LEGEND

- RUMBLE STRIPS 4" WIDE 240 MIL WHITE HEATED IN PLACE OR MOLTEN THERMOPLASTIC
- DIRECTION OF TRAFFIC FLOW
- WARNING FLAGS

WORK ZONE	G20-5aP 36" X 24"
SPEED LIMIT 55	R2-1 36" X 48"
$250 FINE	R2-6bP 36" X 24"

"WORK ZONE" SPEED LIMIT (SEE NOTES)

APPROVED: _____ DATE: _____

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Jul 30, 2011

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

RUMBLE STRIP DETAIL

29-DEC-2011 15:35
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sbjennings AT TE24473I

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-3A

PHASING

NOTES:

1) MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION
2) REPLACE EXISTING PAVEMENT MARKINGS COVERED OR DAMAGED BY CONSTRUCTION ACTIVITY WITH TEMPORARY PAVEMENT MARKINGS AT END OF EACH WORK DAY.
3) CONSTRUCT ALL PAVEMENT UP TO BY NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE UNLESS OTHERWISE STATED IN PHASING, OR AS DIRECTED BY THE ENGINEER.
4) WHEN INSTALLING OR REMOVING GIRDERS OVER SR 1620 (TOBACCOVILLE ROAD) USE RSD 1101.03 SHEET 8 OF 9.

PHASE IA

STEP 1 INSTALL ADVANCED WORK ZONE WARNING SIGNS ON -L- (US 52) AND ON -Y- (TOBACCOVILLE RD) AS REQUIRED IN PROJECT NOTES. INSTALL SPEED LIMIT REDUCTION SIGNS ON -L- (US 52) AS SHOWN ON SHEET TMP-2A.

USING RSD 1101.02, SHEETS 3 OF 15, INSTALL RUMBLE STRIPS ON BOTH LANES OF SB US 52. (SEE TMP-2C)

STEP 2 USING RSD 1101.02, SHEETS 3 OF 15, INSTALL TEMPORARY PORTABLE CONCRETE BARRIER (PCB) ALONG OUTSIDE LANE OF NB US 52 AS FOLLOWS: (SEE SHEET TMP-5)
-L- STA. 22+00 +/- TO -L- STA. 25+20 +/-

STEP 3 USING RSD 1101.02, SHEETS 3 OF 15,AND BEHIND EXISTING GUARDRAIL OR PORTABLE CONCRETE BARRIER, BEGIN CONSTRUCTION ON -DETOUR- AND TEMPORARY BRIDGE. (SEE TMP-5)

USING RSD 1101.02, SHEET 1 OF 15, PERFORM THE FOLLOWING: (SEE TMP-5)
A) CONSTRUCT TEMPORARY PAVEMENT ALONG BOTH SIDES OF -Y- (SR 1620) FOR INSTALLATION OF PCB AS FOLLOWS:
-Y- STA. 25+35 +/- RT TO -Y- STA. 29+25 +/- RT AND
-Y- STA. 24+75 +/- LT TO -Y- STA. 28+75 +/- LT
B) PLACE PCB ALONG BOTH SIDES OF -Y- (SR 1620) AS FOLLOWS:
-Y- STA. 25+60 +/- RT TO -Y- STA. 29+00 +/- RT AND
-Y- STA. 25+00 +/- TO -Y- STA. 28+50 +/- LT
- CONSTRUCT PROPOSED DRIVEWAY AT -Y- STA.30+25 +/-.

7 DAY 1CT

WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN STEP 4 BETWEEN 8:00 PM FRIDAY AND 8:00 PM THE FOLLOWING FRIDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES. HOLIDAY AND SPECIAL EVENTS LANE CLOSURE TIME RESTRICTIONS APPLY DURING THIS ICT.

STEP 4 USING RSD 1101.02, SHEETS 3 AND 9 OF 15, REMOVE AND REPLACE EXISTING OUTSIDE SHOULDER ACCORDING TO LOCAL NOTE. (SEE SHEETS TMP-4, 5 AND 6)

STEP 5 USING RSD 1101.02, SHEETS 3 OF 15, INSTALL PCB ALONG OUTSIDE SHOULDER NB US 52 AS FOLLOWS: (SEE SHEETS TMP-7, 8 AND 9)
-L- STA. 15+00 +/- TO -L- STA. 22+00 +/- AND
-L- STA. 30+50 +/- TO -L- STA. 38+68 +/-

PHASE IB

STEP 1 USING RSD 1101.02, SHEET 3 OF 15, AND BEHIND EXISTING GUARDRAIL OR PORTABLE CONCRETE BARRIER (PCB), COMPLETE CONSTRUCTION OF -DETOUR- AND TEMPORARY BRIDGE AS FOLLOWS: (SEE TMP-7, 8 AND 9, AND ROADWAY PLANS)
-DETOUR- STA. 15+82 +/-TO -DETOUR- STA. 35+50 +/-

STEP 2 USING RSD 1101.02, SHEET 3 OF 15, PERFORM THE FOLLOWING:
- REMOVE PCB FROM OUTSIDE LANE OF NB US 52 AS FOLLOWS: (SEE TMP-7, 8 AND 9)
-L- STA. 15+00 +/- TO -L- STA. 25+20 +/- AND
-L- STA. 30+50 +/- TO -L- STA. 38+68 +/-
- INSTALL PCB ON MEDIAN LANE OF -DETOUR- AS FOLLOWS: (SEE SHEETS TMP-10 AND 11)
-L- STA. 19+80 +/- TO BEGINNING OF -DETOUR- BRIDGE AND END OF -DETOUR BRIDGE- TO -L- STA. 31+90 +/-

NOTE: PROTECT EXPOSED END OF EXISTING GUARDRAIL AND PCB WITH TMA.

STEP 3 USING RSD 1101.02, SHEET 3 OF 15, PERFORM THE FOLLOWING IN A CONTINOUS MANNER: (BY THE END OF THE WORK DAY, TRAFFIC SHALL BE SHIFTED ONTO -DETOUR- IN TWO LANE ONE WAY PATTERN.
- SEE SHEETS TMP-10, 11 AND 12)
A) BEGIN PLACEMENT OF TEMPORARY PAVEMENT MARKING ON -DETOUR-.
B) CONSTRUCT -DETOUR- TIE-IN TO NB US 52 AND SHIFT TRAFFIC ONTO TEMPORARY -DETOUR- IN ONE LANE/ONE WAY PATTERN AND COMPLETE PLACEMENT OF TEMPORARY PAVEMENT MARKING.
C) SHIFT TRAFFIC ONTO -DETOUR- IN TWO LANE/ONE WAY PATTERN.

STEP 4 USING RSD 1101.02, SHEET 3 OF 15, INSTALL PCB ON MEDIAN LANE OF -DETOUR- AS FOLLOWS: (SEE SHEETS TMP-10, 11 AND 12)
-L- STA. 11+50 +/- TO -L- STA. 19+80 +/- AND FROM
-L- STA. 31+90 +/- TO -L- STA. 38+50 +/-

PHASE II

STEP 1 USING RSD 1101.02, SHEET 3 OF 15, INSTALL PCB ALONG INSIDE LANE OF SB US 52 AS FOLLOWS: (SEE SHEETS TMP-10, 11 AND 12)
-L- STA. 11+50 +/- TO -L- STA. 23+50 +/- AND FROM
-L- STA. 30+41 +/- TO -L- STA. 38+50 +/-

STEP 2 BEHIND PCB REMOVE EXISTING CONCRETE LANES FROM NB US 52 AND CONSTRUCT TEMPORARY DRAINAGE DITCH AS FOLLOWS: (SEE SHEETS TMP-10, 11 AND ROADWAY PLANS)
-L STA. 17+50 +/- TO -L- STA. 19+50 +/- AND FROM
-L- STA. 31+76 +/- TO -L- STA. 33+50 +/-

USING RSD 1101.02, SHEET 3 OF 15, AND BEHIND EXISTING GUARDRAIL OR PCB, CONSTRUCT -XOVER- AND PROPOSED NB BRIDGE FROM -XOVER- STA. 12+50 +/- TO -XOVER- STA. 37+08 +/-. (SEE TMP-10, 11 AND 12, AND ROADWAY PLANS)

STEP 3 USING RSD 1101.02, SHEET 3 OF 15, PERFORM THE FOLLOWING:
- REMOVE PCB FROM INSIDE LANE OF SB US 52 AS FOLLOWS: (SEE SHEETS TMP-10, 11 AND 12)
-L- STA. 12+27 +/- TO -L- STA. 23+50 +/- AND
-L- STA. 30+41 +/- TO -L- STA. 38+50 +/-
- RESET PCB AND INSTALL ADDITIONAL PCB TO THE BOTH LANES OF -XOVER- AS FOLLOWS: (SEE SHEETS TMP-13, 14 AND 15)
INSIDE LANE -L- STA. 12+27 +/- TO -L- STA. 38+50 +/-
OUTSIDE LANE -L- STA. 20+00 +/- TO -L- STA. 32+00 +/-

NOTE: PROTECT EXPOSED END OF EXISTING GUARDRAIL AND PCB WITH TMA.

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Joseph Ishak

Dec 30 2011

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

PHASING

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-3B

PHASING

STEP 4 USING RSD 1101.02, SHEET 3 OF 15, PERFORM THE FOLLOWING IN A CONTINOUS MANNER: (BY THE END OF THE WORK DAY, TRAFFIC SHALL BE SHIFTED ONTO -XOVER- IN TWO LANE/ONE WAY PATTERN. - SEE SHEETS TMP-13, 14 AND 15)
A) BEGIN PLACEMENT OF TEMPORARY PAVEMENT MARKING ON -XOVER-.
B) CONSTRUCT -XOVER- TIE-IN TO SB US 52 AND SHIFT TRAFFIC ONTO TEMPORARY -XOVER- IN ONE LANE, ONE WAY PATTERN AND COMPLETE PLACEMENT OF TEMPORARY PAVEMENT MARKING.
C) SHIFT TRAFFIC ONTO -XOVER- IN TWO LANE/ONE WAY PATTERN.

STEP 5 USING RSD 1101.02, SHEET 3 and 9 OF 15, INSTALL PCB ALONG OUTSIDE LANE OF -XOVER- AS FOLLOWS: (SEE SHEETS TMP-13, 14 AND 15)
-L- STA. 12+67 +/- TO 20+00 +/- AND FROM
-L- STA. 32+00 +/- TO -L- STA. 38+50 +/-

PHASE III

STEP 1 USING RSD 1101.02, SHEET 3 OF 15, AND BEHIND PCB CONSTRUCT PROPOSED SB BRIDGE AND APPROACHES FROM -L- STA. 11+00 +/- TO -L- STA. 38+50 +/-. (SEE TMP-13, 14 AND 15, AND ROADWAY PLANS)

STEP 2 USING RSD 1101.02, SHEET 3 and 9 OF 15, REMOVE PCB ALONG OUTSIDE LANE OF -XOVER- AS FOLLOWS: (SEE SHEETS TMP-13, 14 AND 15)
-L- STA. 12+67 +/- TO 20+00 +/- AND FROM
-L- STA. 32+00 +/- TO -L- STA. 38+50 +/-

NOTE: PROTECT EXPOSED END OF EXISTING GUARDRAIL AND PCB WITH TMA.

INSTALL PCB ON INSIDE LANE OF PROPOSED SB -L- FROM -L- STA. 20+00 +/- TO -L- STA. 32+00 +/-.

STEP 3 USING RSD 1101.02, SHEET 3 OF 15, PERFORM THE FOLLOWING IN A CONTINOUS MANNER: (BY THE END OF THE WORK DAY, TRAFFIC SHALL BE SHIFTED ONTO PROPOSED SB -L- IN TWO LANE/ONE WAY PATTERN. - SEE SHEETS TMP-16, 17 AND 18)
A) BEGIN PLACEMENT OF TEMPORARY PAVEMENT MARKING ON PROPOSED SB -L-.
B) CONSTRUCT PROPOSED SB -L- TIE-IN AND SHIFT TRAFFIC ONTO PROPOSED SB -L- IN ONE LANE, ONE WAY PATTERN AND COMPLETE PLACEMENT OF TEMPORARY PAVEMENT MARKING.
C) SHIFT TRAFFIC ONTO PROPOSED SB -L- IN FINAL TWO LANE/ONE WAY PATTERN.

STEP 4 USING RSD 1101.02, SHEET 3 OF 15, AS NECESSARY, PERFORM THE FOLLOWING:
- REMOVE PCB ON -XOVER- AS FOLLOWS: (SEE SHEETS TMP-13, 14 AND 15)
OUTSIDE LANE -L- STA. 20+00 +/- TO -L- STA. 32+00 +/-
INSIDE LANE -L- STA. 12+27 +/- TO -L- STA. 37+00 +/-
- RESET PCB ON PROPOSED SB -L- AS FOLLOWS:
INSIDE LANE -L- STA. 12+27 TO -L- STA. 20+00 +/- AND
FROM -L- STA. 32+00 +/- TO -L- STA. 37+00 +/-

NOTE: PROTECT EXPOSED END OF EXISTING PCB WITH TMA.

PHASE IV

STEP 1 BEHIND PCB REMOVE -XOVER- AND CONSTRUCT PROPOSED NB -L- APPROACHES, INCLUDING CONCRETE LANE REPLACEMENT, AS SHOWN ON SHEETS TMP-16, 17 AND 18, AND ROADWAY PLANS.

STEP 2 BEHIND PCB INSTALL PROPOSED MEDIAN CABLE GUIDERAIL. (SEE ROADWAY PLANS)

STEP 3 USING RSD 1101.02, SHEET 3 OF 15, PERFORM THE FOLLOWING:
- REMOVE PCB FROM INSIDE LANE OF PROPOSED SB -L- FROM -L- STA. 11+50 +/- TO -L- STA. 38+50 +/-. (SEE TMP-16, 17 AND 18)
- INSTALL PROPOSED GUARDRAIL IN MEDIAN OF -L- FROM -L- STA. 11+50 +/- TO -L- STA. 14+30 +/-. (SEE TMP-19 AND ROADWAY PLANS)

STEP 4 USING RSD 1101.02, SHEET 3 OF 15, REMOVE PCB ON MEDIAN LANE OF -DETOUR- AS FOLLOWS: (SEE SHEETS TMP-16, 17 AND 18)
-L- STA. 11+50 +/- TO -L- STA. 21+50 +/- AND FROM
-L- STA. 31+00 +/- TO -L- STA. 38+50 +/-

NOTE: PROTECT EXPOSED END OF EXISTING PCB AND PROPOSED GUARDRAIL WITH TMA OR AS DIRECTED BY THE ENGINEER.

STEP 5 USING RSD 1101.02, SHEET 3 OF 15, PERFORM THE FOLLOWING IN A CONTINOUS MANNER: (BY THE END OF THE WORK DAY, TRAFFIC SHALL BE SHIFTED ONTO PROPOSED NB -L- IN TWO LANE ONE WAY PATTERN. - SEE SHEETS TMP-19, 20 AND 21)
A) BEGIN PLACEMENT OF TEMPORARY PAVEMENT MARKING ON PROPOSED NB -L-.
B) CONSTRUCT PROPOSED NB -L- TIE-IN AND SHIFT TRAFFIC ONTO PROPOSED NB -L- IN ONE LANE, ONE WAY PATTERN AND COMPLETE PLACEMENT OF TEMPORARY PAVEMENT MARKING.
C) SHIFT TRAFFIC ONTO PROPOSED NB -L- IN FINAL TWO LANE, ONE WAY PATTERN.

STEP 6 USING RSD 1101.02, SHEET 3 OF 15, AS NECESSARY, PERFORM THE FOLLOWING:
- REMOVE PCB ON MEDIAN LANE OF -DETOUR- AS FOLLOWS: (SEE SHEET TMP-17)
-L- STA. 21+50 +/- TO -L- STA. 31+00 +/-
- RESET PCB ON PROPOSED OUTSIDE NB -L- AS FOLLOWS: (SEE SHEETS TMP-19,20 AND 21)
-L- STA. 11+50 +/- TO -L- STA. 39+90 +/-

PHASE V

STEP 1 BEHIND PCB REMOVE -DETOUR-, TEMPORARY BRIDGE AND APPROACHES. COMPLETE REMAINING OUTSIDE SHOULDER ON PROPOSED NB -L- AS SHOWN ON SHEETS TMP-19, 20 AND 21.

STEP 2 USING RSD 1101.02, SHEET 3 OF 15, REMOVE PCB ON PROPOSED OUTSIDE NB -L- FROM -L- STA. 11+50 +/- TO -L- STA. 39+90 +/-.

USING RSD 1101.02, SHEET 1 OF 15, REMOVE ALL PCB ALONG BOTH SIDES OF -Y- (SR 1620) AS FOLLOWS: (SEE TMP-20)
-Y- STA. 25+60 +/- RT TO -Y- STA. 29+00 +/- RT AND
-Y- STA. 25+00 +/- TO -Y- STA. 28+48 +/- LT

STEP 3 USING RSD 1101.02, SHEET 1 OF 15, COMPLETE CONSTRUCTION ON -Y-. (SEE SHEET TMP-20, ROADWAY PLANS AND PAVEMENT MARKING PLANS)

STEP 4 USING RSD 1101.02, SHEET 3 OF 15, PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS ON PROPOSED NB AND SB -L-. (SEE PAVEMENT MARKING PLANS)

STEP 5 REMOVE ALL TRAFFIC CONTROL DEVICES.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028380 JOSEPH ISHAK

Dec 30, 2011

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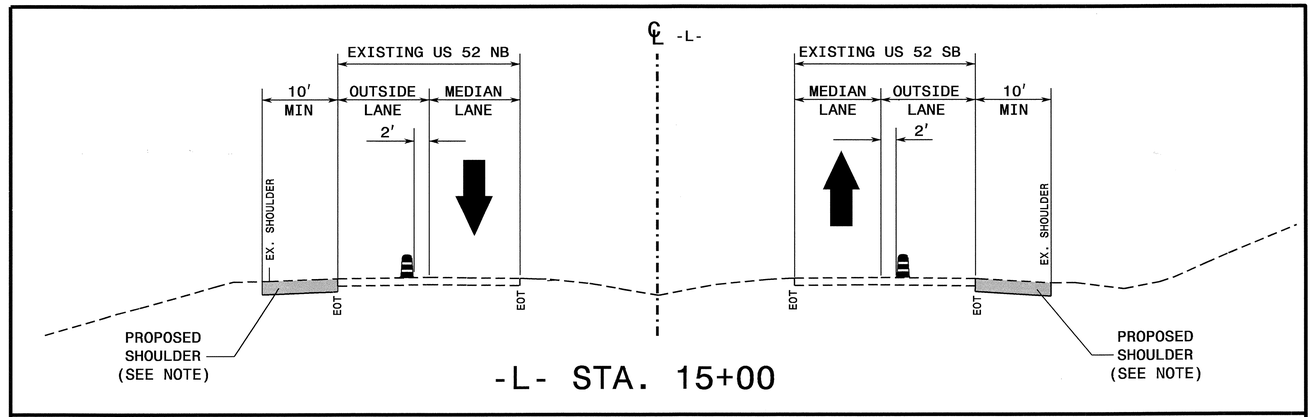
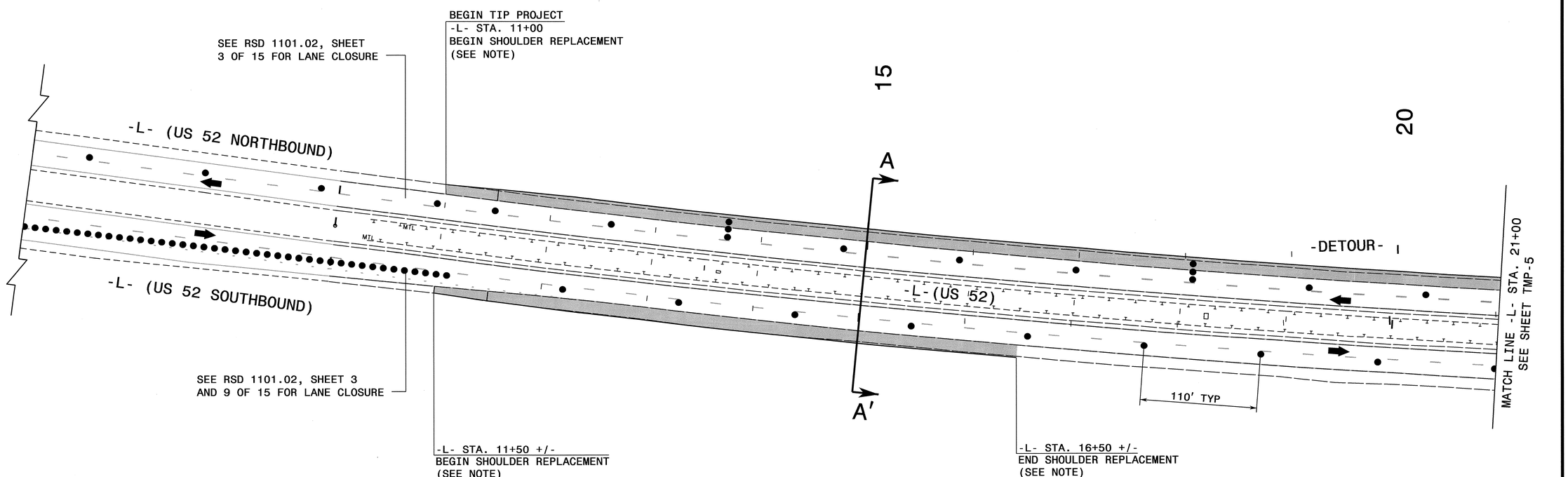
PHASING

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-4



SECTION A - A′



NOTE: REMOVE EXISTING SHOULDER AND RECONSTRUCT A MINIMUM OF 10′ WIDTH FROM EDGE OF EXISTING TRAVEL LANE. THE PROPOSED PAVEMENT STRUCTURE SHALL BE 20-1/2″ DEEP OR AS DIRECTED BY THE ENGINEER.

APPROVED: _____ DATE: _____

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Dec 30, 2016

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PHASE IA
(Sheet 1 of 3)

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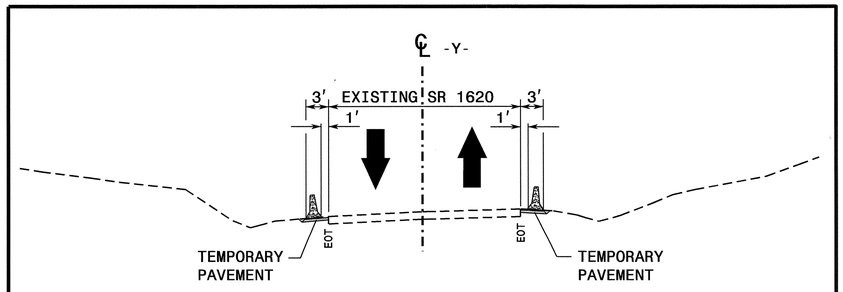
sbjennings AT TE24473

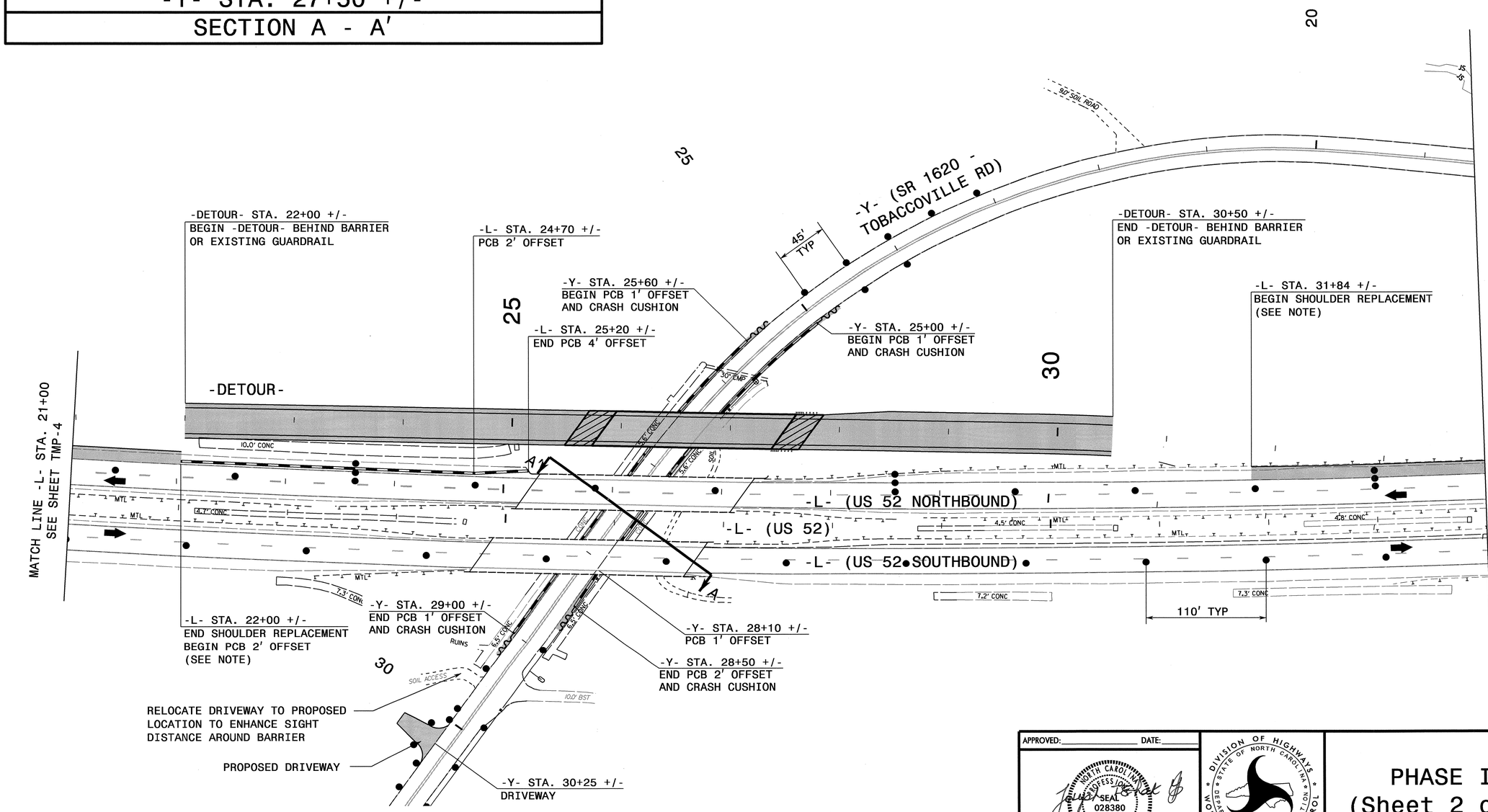
PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-5



-Y- STA. 27+50 +/-

SECTION A - A′

NOTE: REMOVE EXISTING SHOULDER AND RECONSTRUCT A MINIMUM OF 10′ WIDTH FROM EDGE OF EXISTING TRAVEL LANE. THE PROPOSED PAVEMENT STRUCTURE SHALL BE 20-1/2″ DEEP OR AS DIRECTED BY THE ENGINEER.



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PHASE IA
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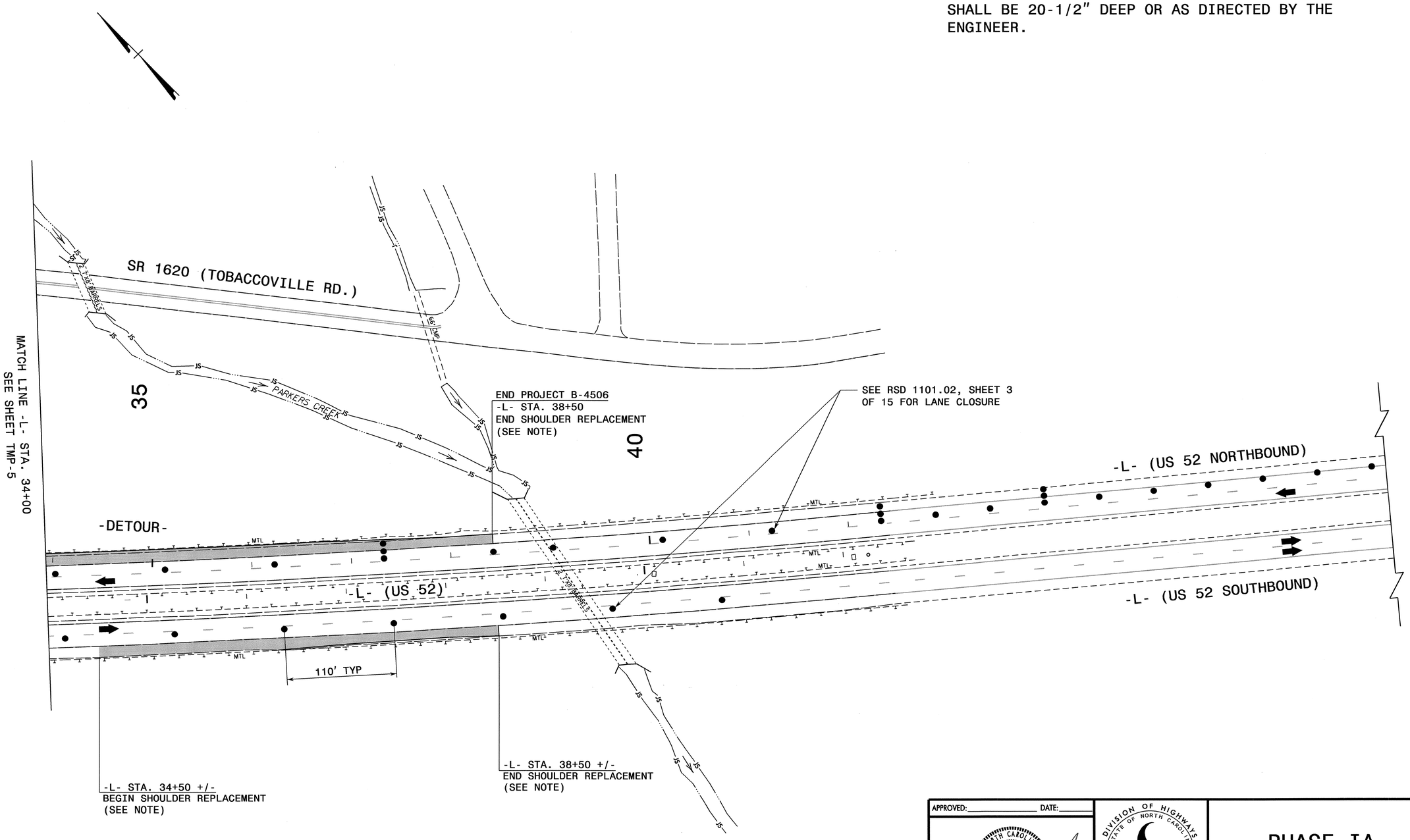
PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-6

NOTE: REMOVE EXISTING SHOULDER AND RECONSTRUCT A MINIMUM OF 10′ WIDTH FROM EDGE OF EXISTING TRAVEL LANE. THE PROPOSED PAVEMENT STRUCTURE SHALL BE 20-1/2″ DEEP OR AS DIRECTED BY THE ENGINEER.



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PHASE IA
(Sheet 3 of 3)

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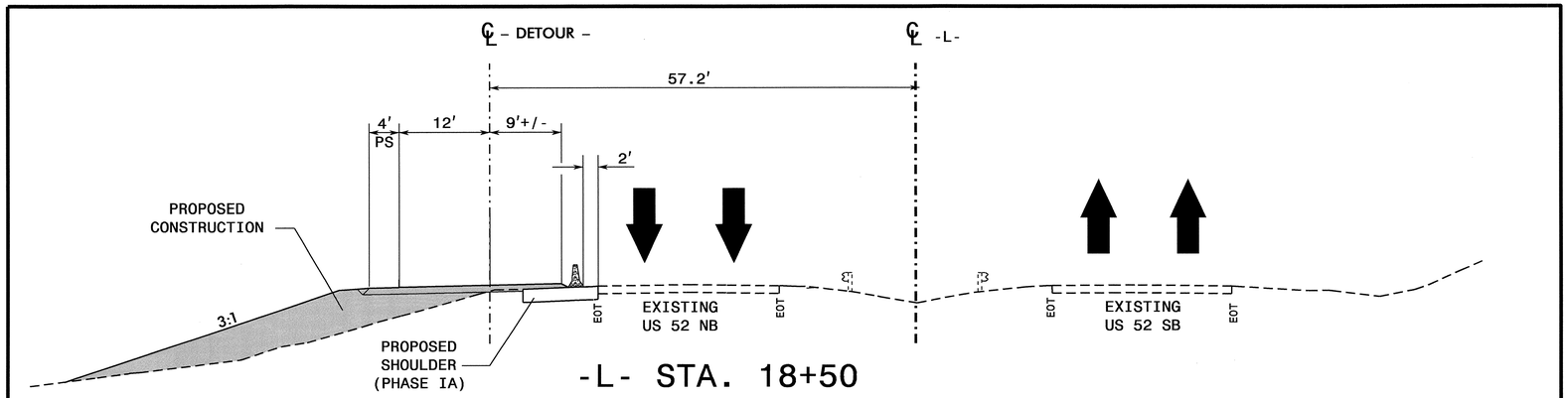
AT TE244731

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-7



SECTION A - A′

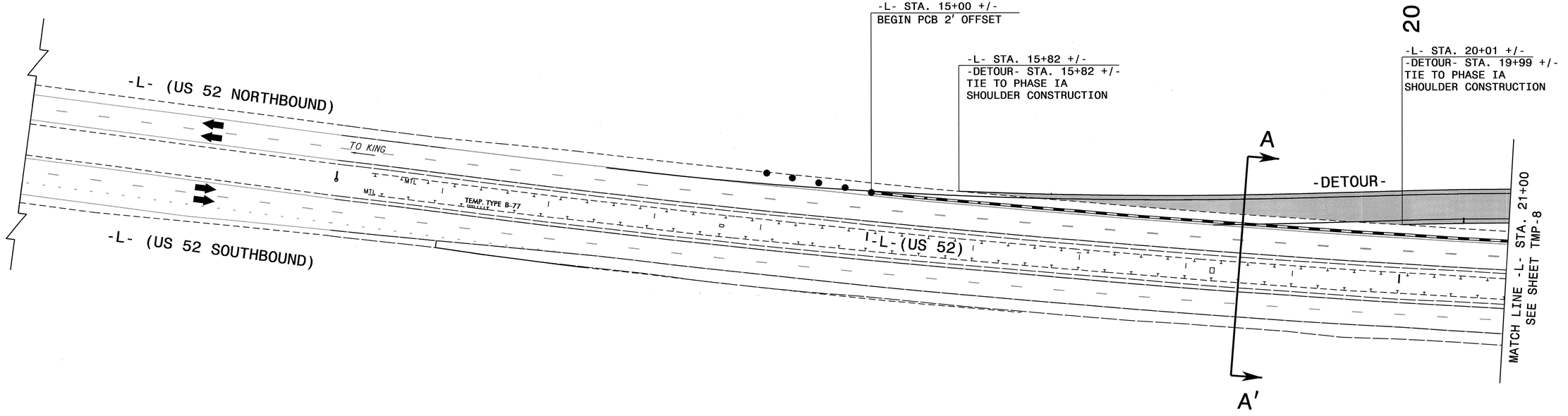
15

-L- STA. 15+00 +/-
BEGIN PCB 2′ OFFSET

-L- STA. 15+82 +/-
-DETOUR- STA. 15+82 +/-
TIE TO PHASE IA
SHOULDER CONSTRUCTION

20

-L- STA. 20+01 +/-
-DETOUR- STA. 19+99 +/-
TIE TO PHASE IA
SHOULDER CONSTRUCTION



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PHASE IB
(Sheet 1 of 3)

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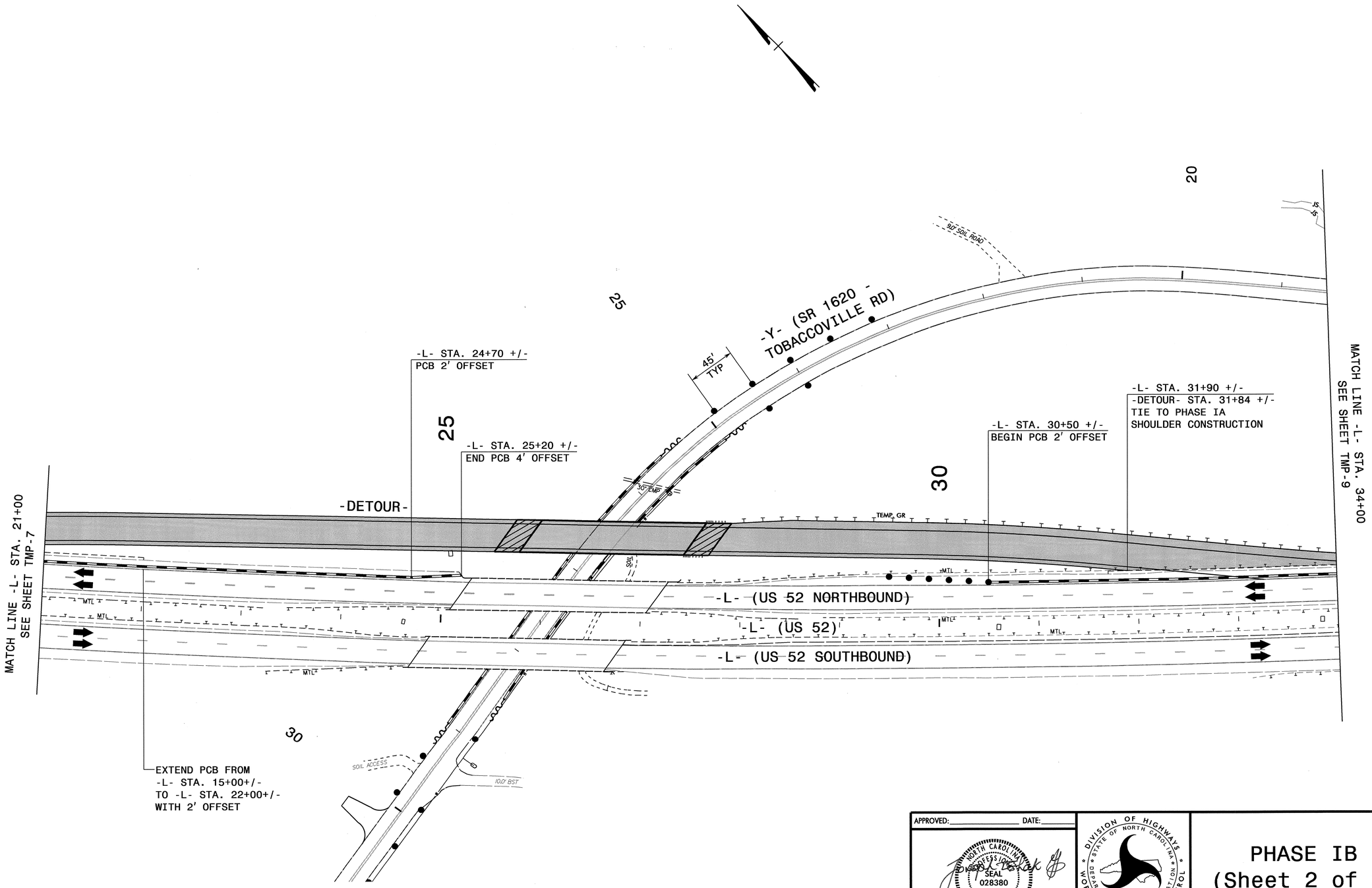
sbjennings
AT TE24473

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-8



APPROVED: _____ DATE: _____

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Joseph Ishak

Dec 30, 2011

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PHASE IB
(Sheet 2 of 3)

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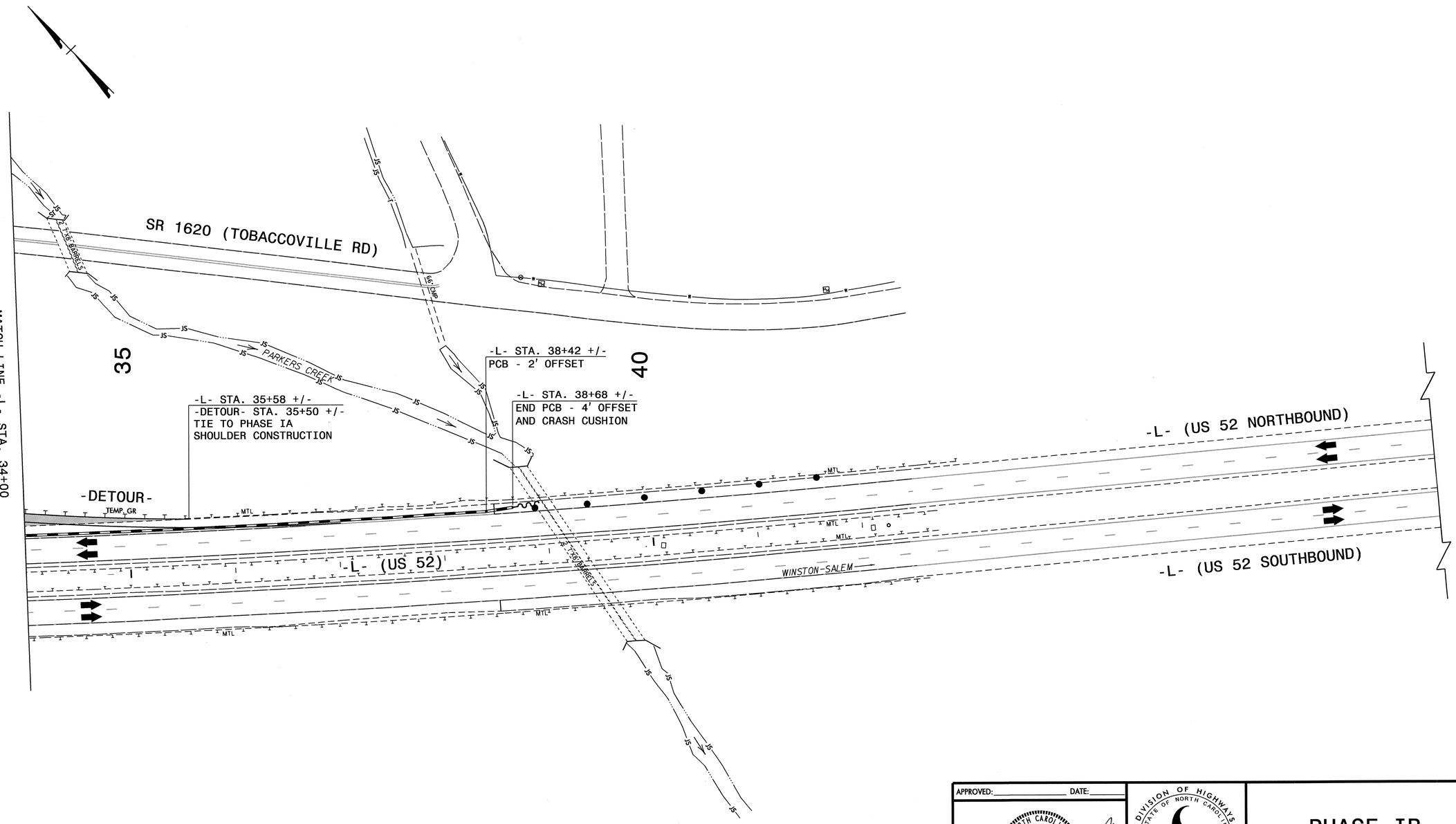
PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-9

NOTE: INSTALL SHOULDER CLOSURE SIGNS AS REQUIRED.
(SEE RSD 1101.04 SHEET 1 OF 1)



APPROVED: _____ DATE: _____

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PHASE IB
(Sheet 3 of 3)

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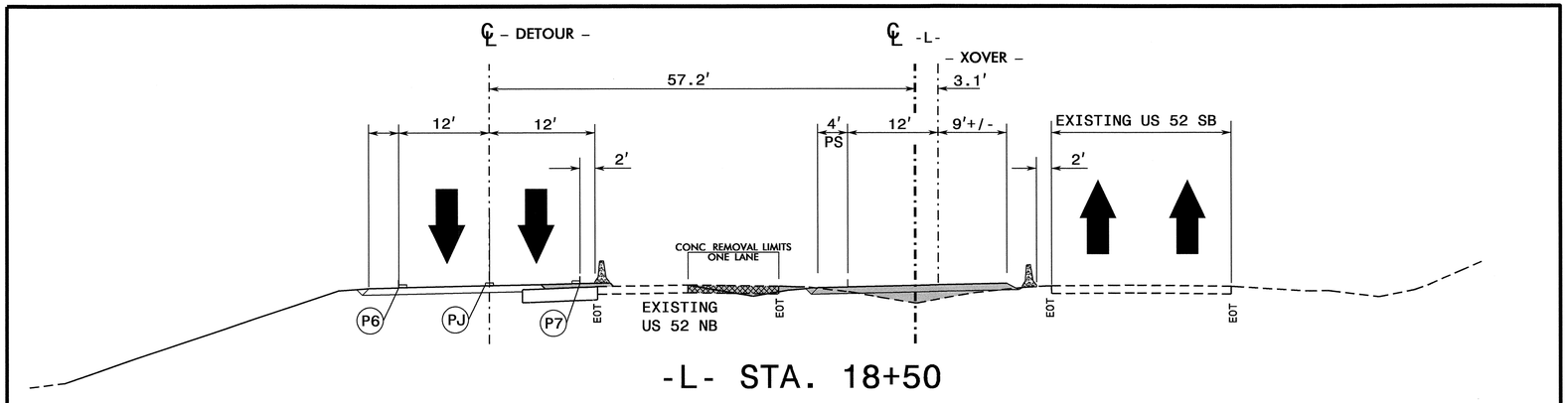
PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-10



-L- STA. 18+50

SECTION A - A′

10

15

20

-L- STA. 11+50 +/-
BEGIN PCB 2′ OFFSET

-DETOUR- 12+49 +/-
TIE TO EXISTING MARKINGS

-L- STA. 17+50 +/-
BEGIN CONCRETE LANE REMOVAL

-L- STA. 19+50 +/-
END CONCRETE LANE REMOVAL

P6
PJ
P7

-L- (US 52 NORTHBOUND)

TEMP. TYPE B-77 LIGHTING

-L- (US 52)

-L- (US 52 SOUTHBOUND)

A

A′

-DETOUR-

-XOVER-

MATCH LINE -L- STA. 21+00
SEE SHEET TMP-11

-L- STA. 11+50 +/-
BEGIN PCB. TIE TO EXISTING GUARDRAIL

-L- STA. 12+27 +/-
PCB 2′ OFFSET

BEGIN CONSTRUCTION -XOVER-
-XOVER- 12+50.52

REMOVE CONCRETE LANES AS SHOWN ON ROADWAY PLANS AND GRADE TO MAINTAIN POSITIVE DRAINAGE

-L- STA. 18+61 +/-
-XOVER- STA. 18+62 +/-

NOTE: INSTALL SHOULDER CLOSURE SIGNS AS REQUIRED.
(SEE RSD 1101.04 SHEET 1 OF 1)

APPROVED: _____ DATE: _____

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028380 JOSEPH ISHAK

Dec 30, 2011

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PHASE II
(Sheet 1 of 3)

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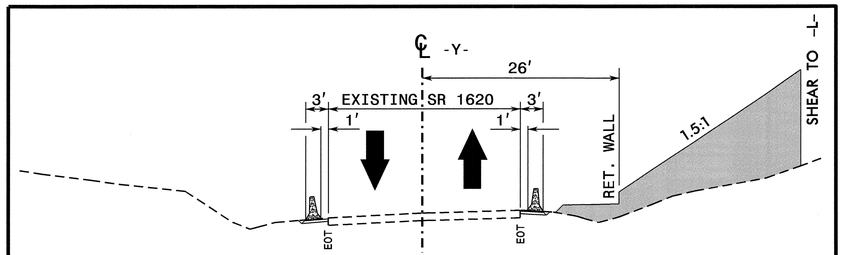
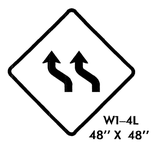
PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-11



-Y- STA. 27+50 +/-

SECTION A - A'



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Dec 30 2011

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PHASE II
(Sheet 2 of 3)

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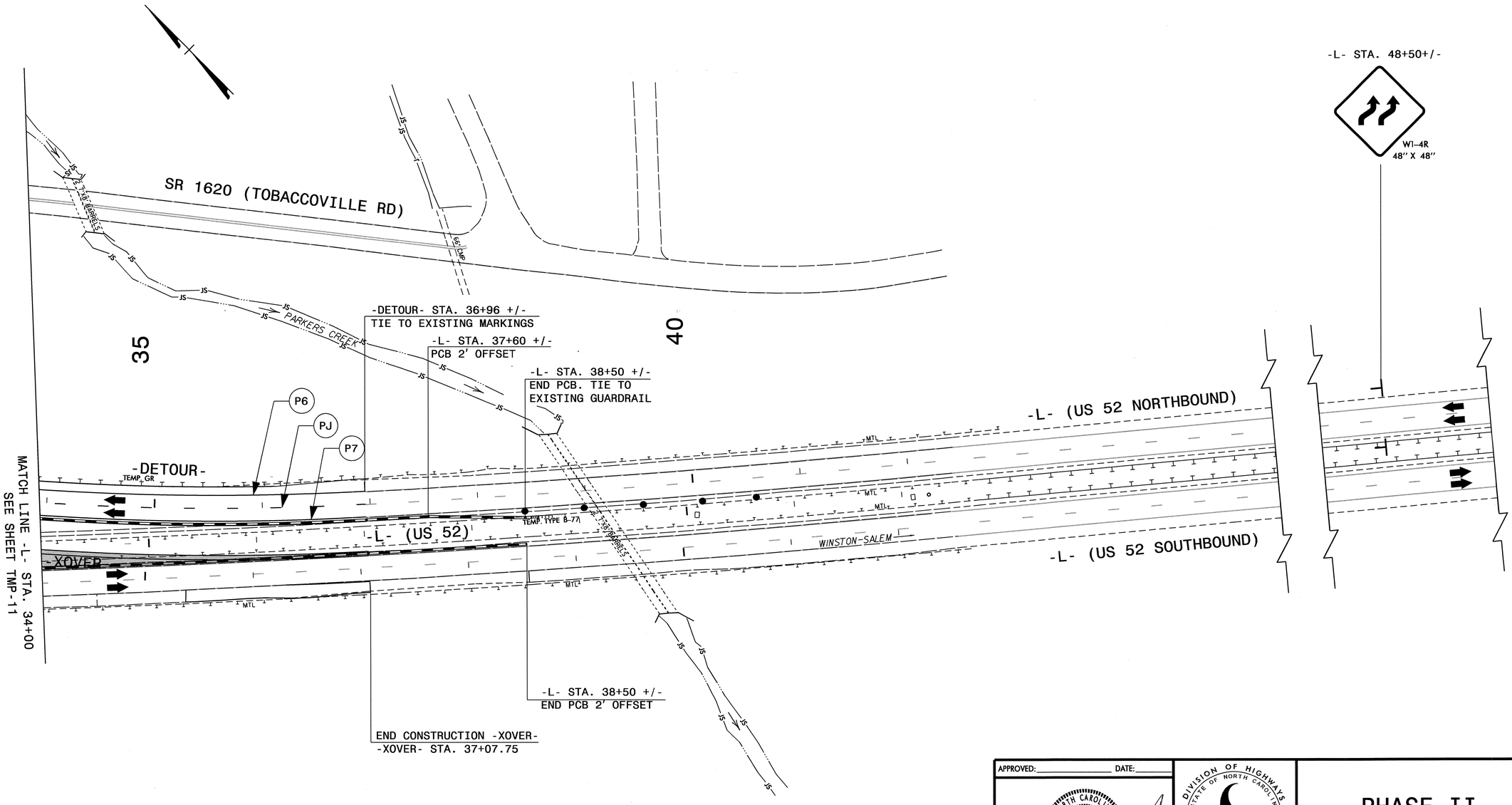
PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-12

NOTE: INSTALL SHOULDER CLOSURE SIGNS AS REQUIRED.
(SEE RSD 1101.04 SHEET 1 OF 1)



APPROVED: _____ DATE: _____

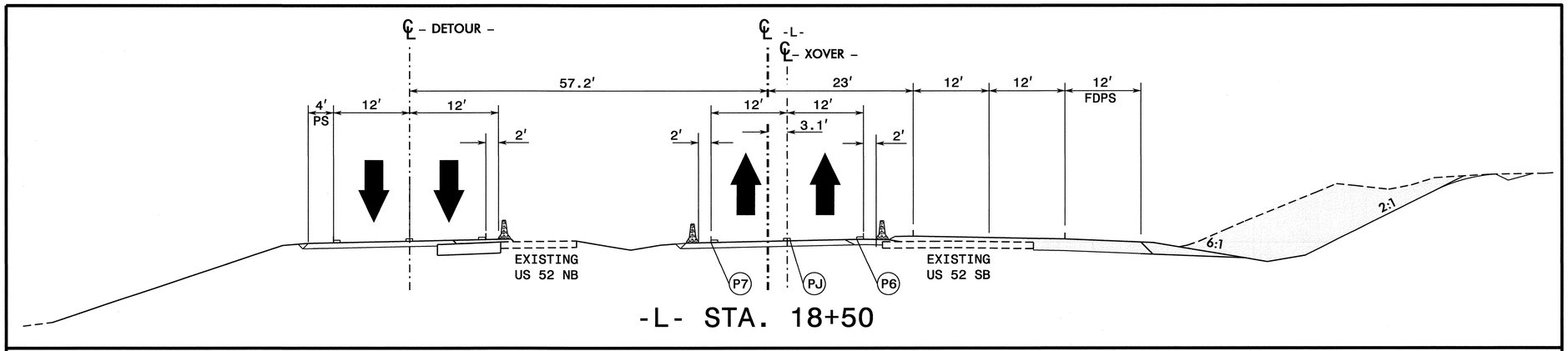
NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

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

PHASE II
(Sheet 3 of 3)

29-DEC-2011 15:42
\\DOT\DFSROOT\ON_PROJ\TIPProjects-B\B4506\Traffic\TrafficControl\TCP\B-4506_TC_TMP_12.dgn
sbjennings AT TE24473

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-13



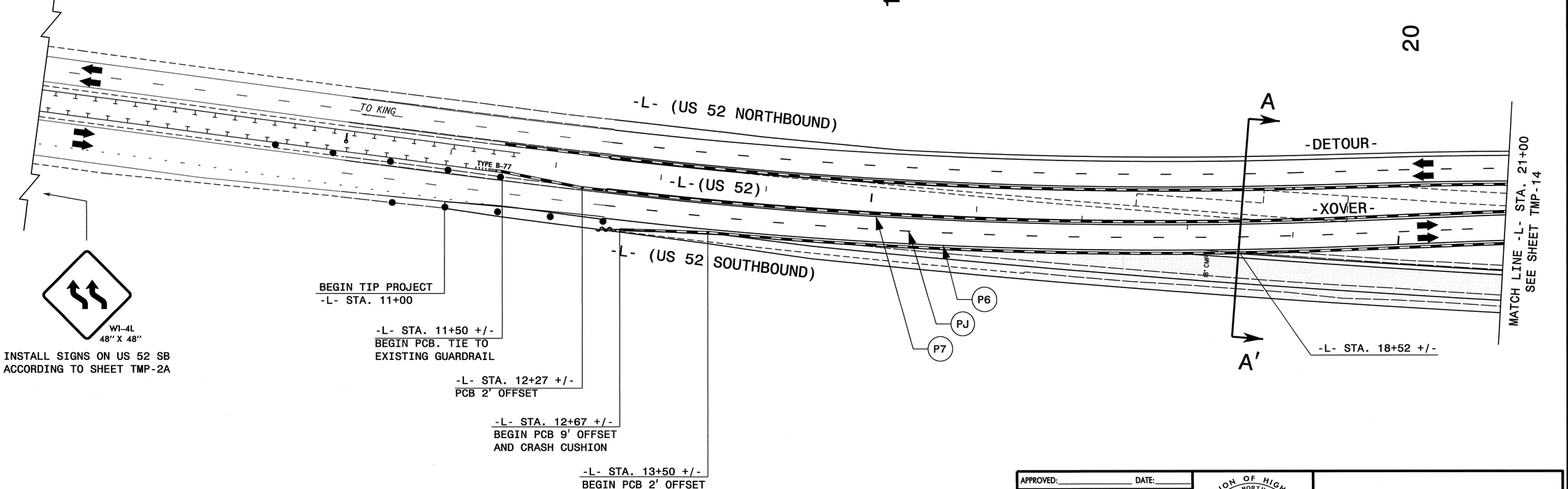
-L- STA. 18+50

SECTION A - A′

10

15

20



NOTE: INSTALL SHOULDER CLOSURE SIGNS AS REQUIRED.
(SEE RSD 1101.04 SHEET 1 OF 1)

APPROVED: _____ DATE: _____

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Dec 30, 2011

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

PHASE III
(Sheet 1 of 3)

30-DEC-2011 09:29
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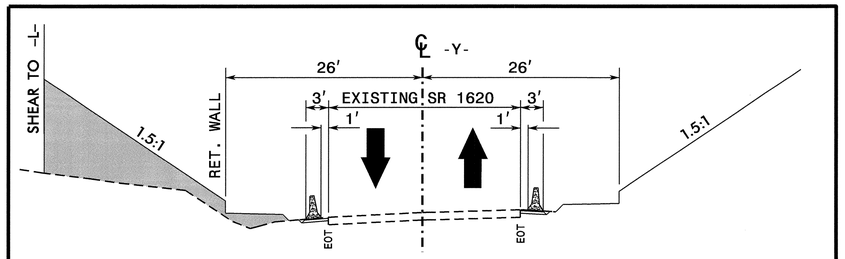
sbjennings AT TE24473

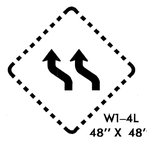
PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-14



-Y- STA. 27+50 +/-

SECTION A - A'

-DETOUR- STA. 21+97 +/-



APPROVED: _____ DATE: _____

JOSEPH SEAL 028380 ENGINEER JOSEPH ISHAK
Dec 30, 2011

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PHASE III
(Sheet 2 of 3)

29-DEC-2011 15:44
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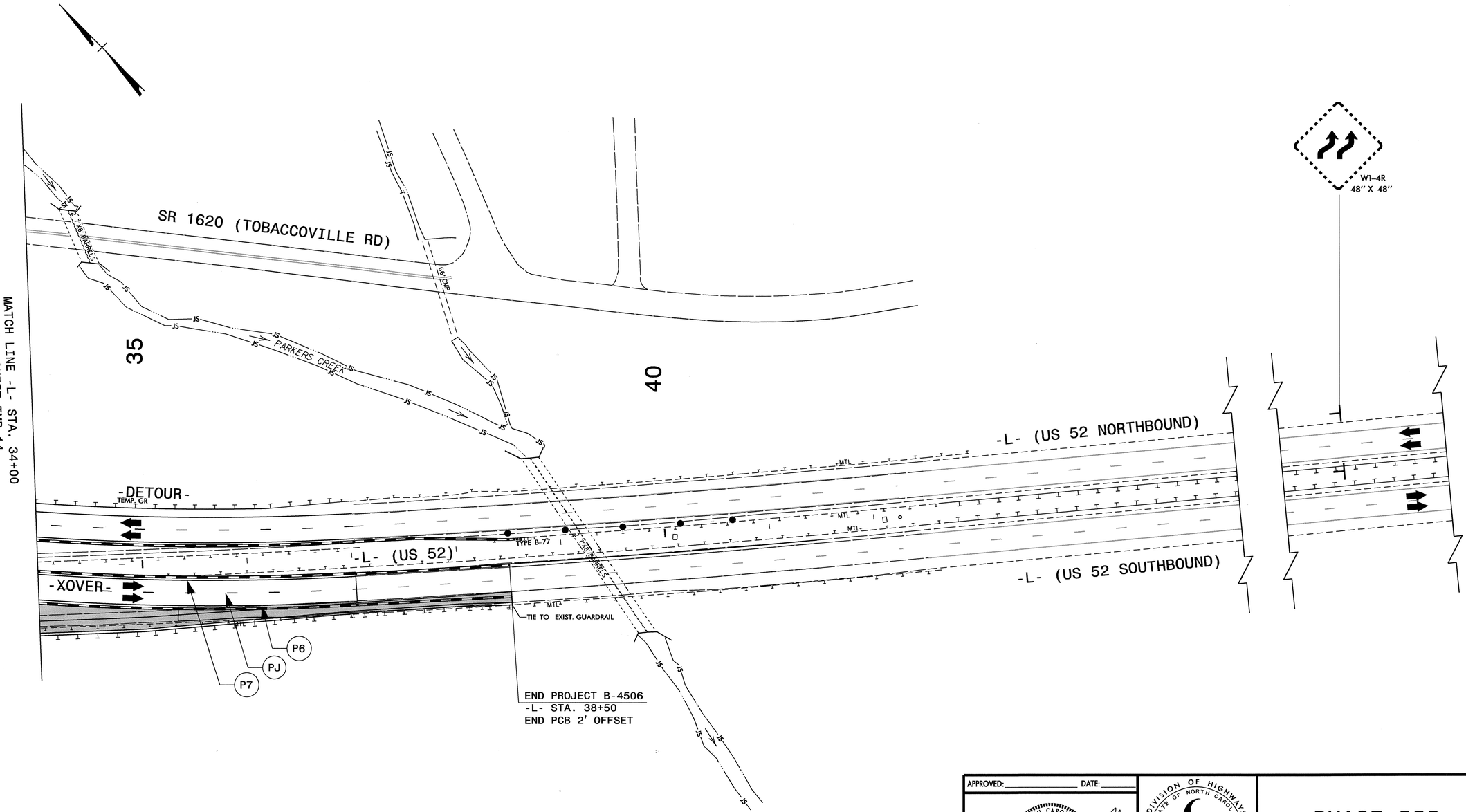
sbjennings AT TE24473I

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-15

NOTE: INSTALL SHOULDER CLOSURE SIGNS AS REQUIRED.
(SEE RSD 1101.04 SHEET 1 OF 1)



APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Joseph Ishak
Dec 30 2011

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

PHASE III
(Sheet 3 of 3)

29-DEC-2011 15:45
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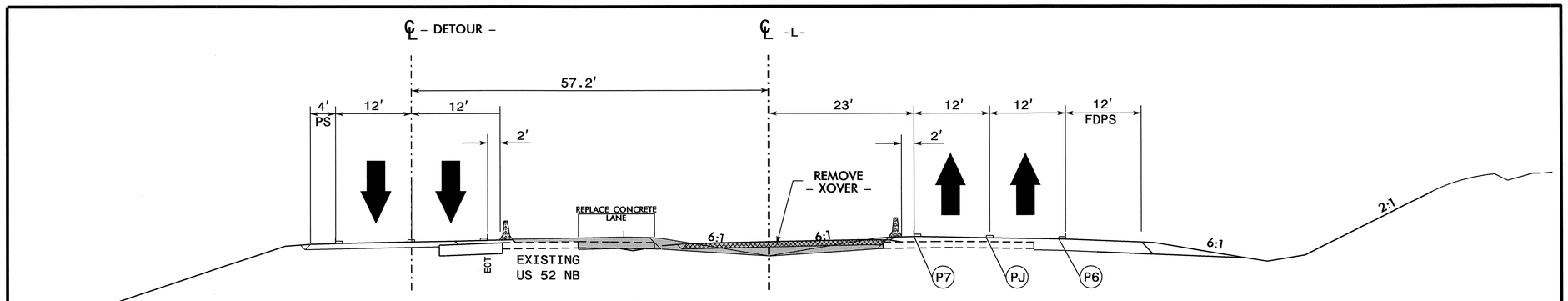
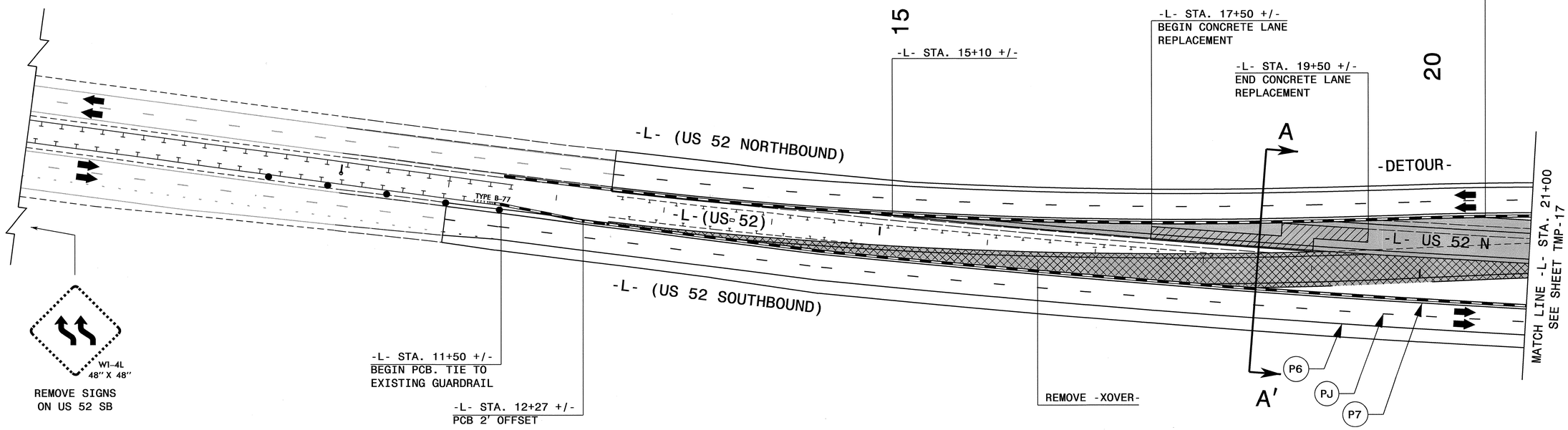
sbjennings AT TE24473J

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-16



-L- STA. 18+50

SECTION A - A'



NOTE: INSTALL SHOULDER CLOSURE SIGNS AS REQUIRED.
(SEE RSD 1101.04 SHEET 1 OF 1)

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NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

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PHASE IV
(Sheet 1 of 3)

29-DEC-2011 15:46
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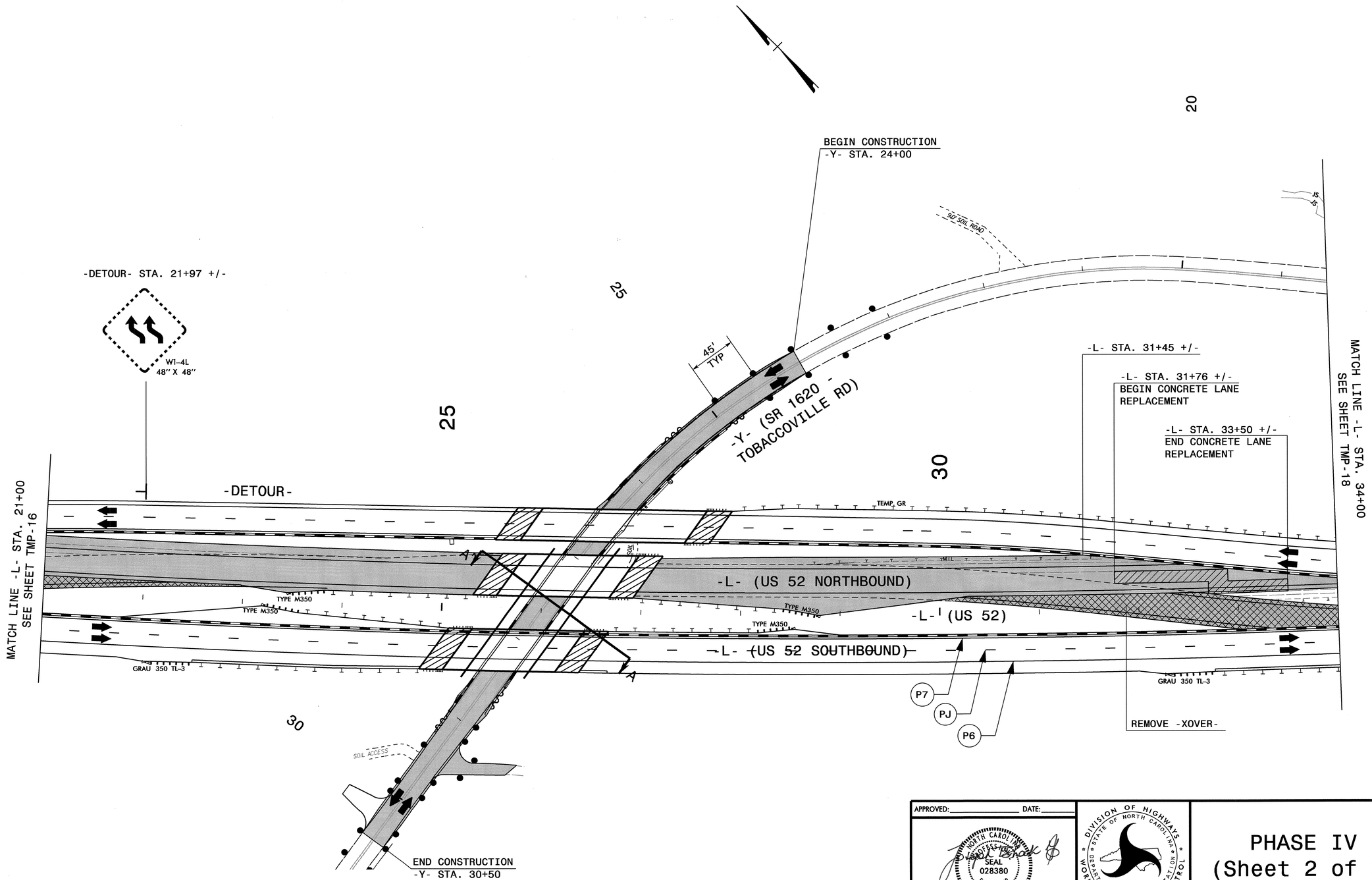
sbjennings
AT TE2244731

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-17



APPROVED: _____ DATE: _____

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Dec 20, 2011

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PHASE IV
(Sheet 2 of 3)

29-DEC-2011 15:46
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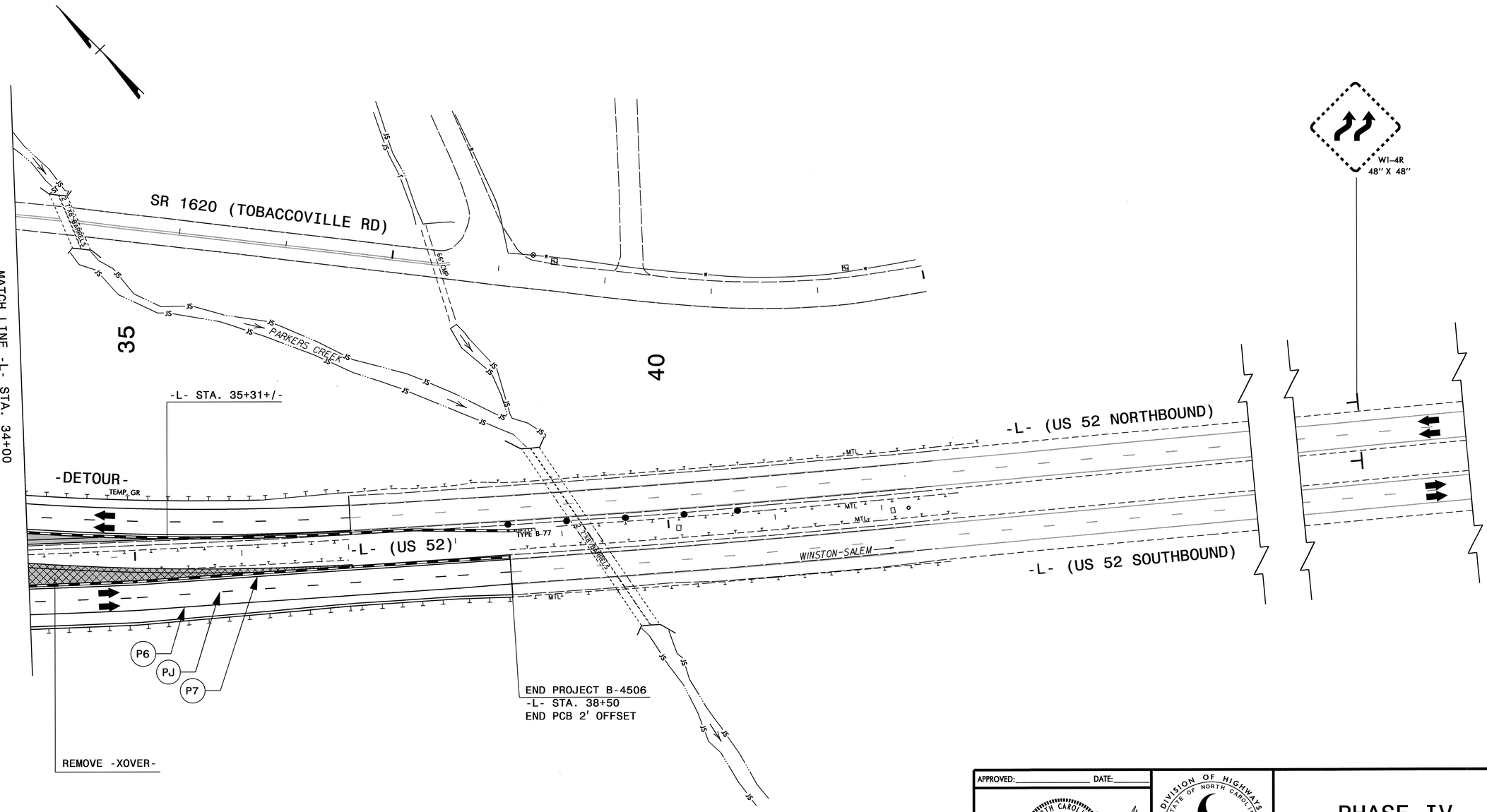
sbjennings AT TE24473

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-18

NOTE: INSTALL SHOULDER CLOSURE SIGNS AS REQUIRED.
(SEE RSD 1101.04 SHEET 1 OF 1)



APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Dec 30, 2011

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

PHASE IV
(Sheet 3 of 3)

29-DEC-2011 15:47
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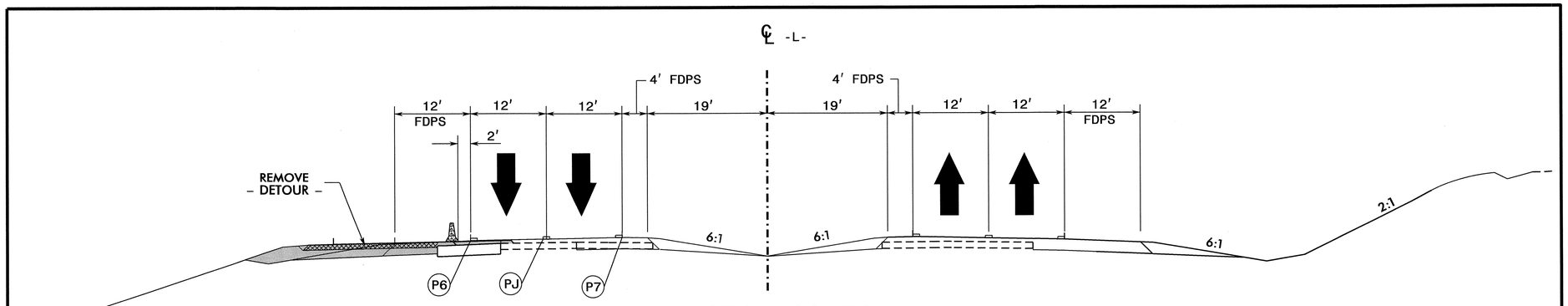
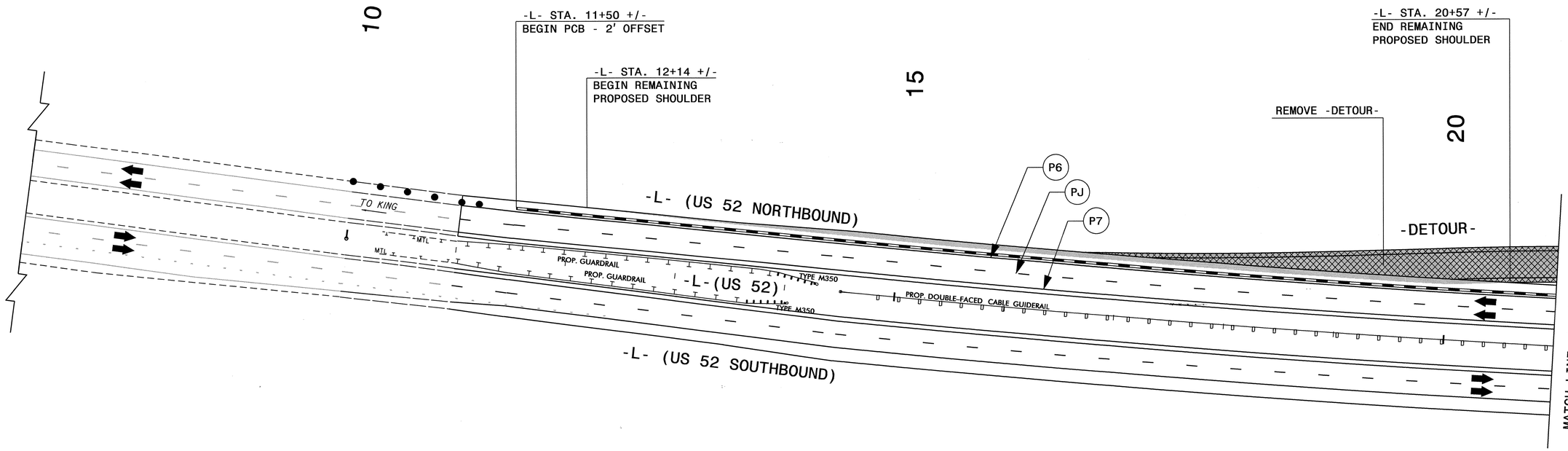
sblennings
AT TE24473J

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-19



-L- STA. 18+50

SECTION A - A'



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NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK

Dec 30, 2011

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PHASE V
(Sheet 1 of 3)

29-DEC-2011 15:48
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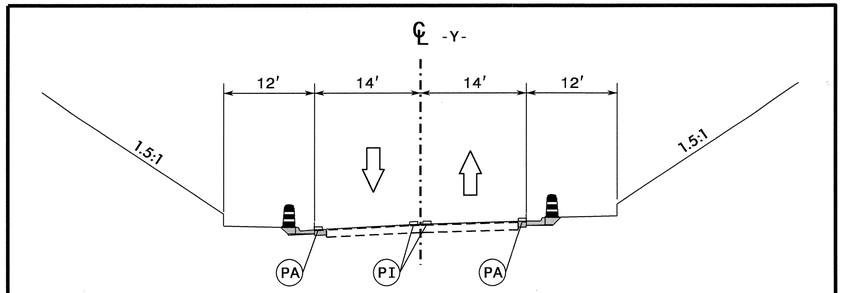
sbjennings AT TE24473

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-20



-Y- STA. 27+50 +/-

SECTION A - A'

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028380 JOSEPH ISHAK

Dec 20 2011

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

PHASE V
(Sheet 2 of 3)

29-DEC-2011 15:49
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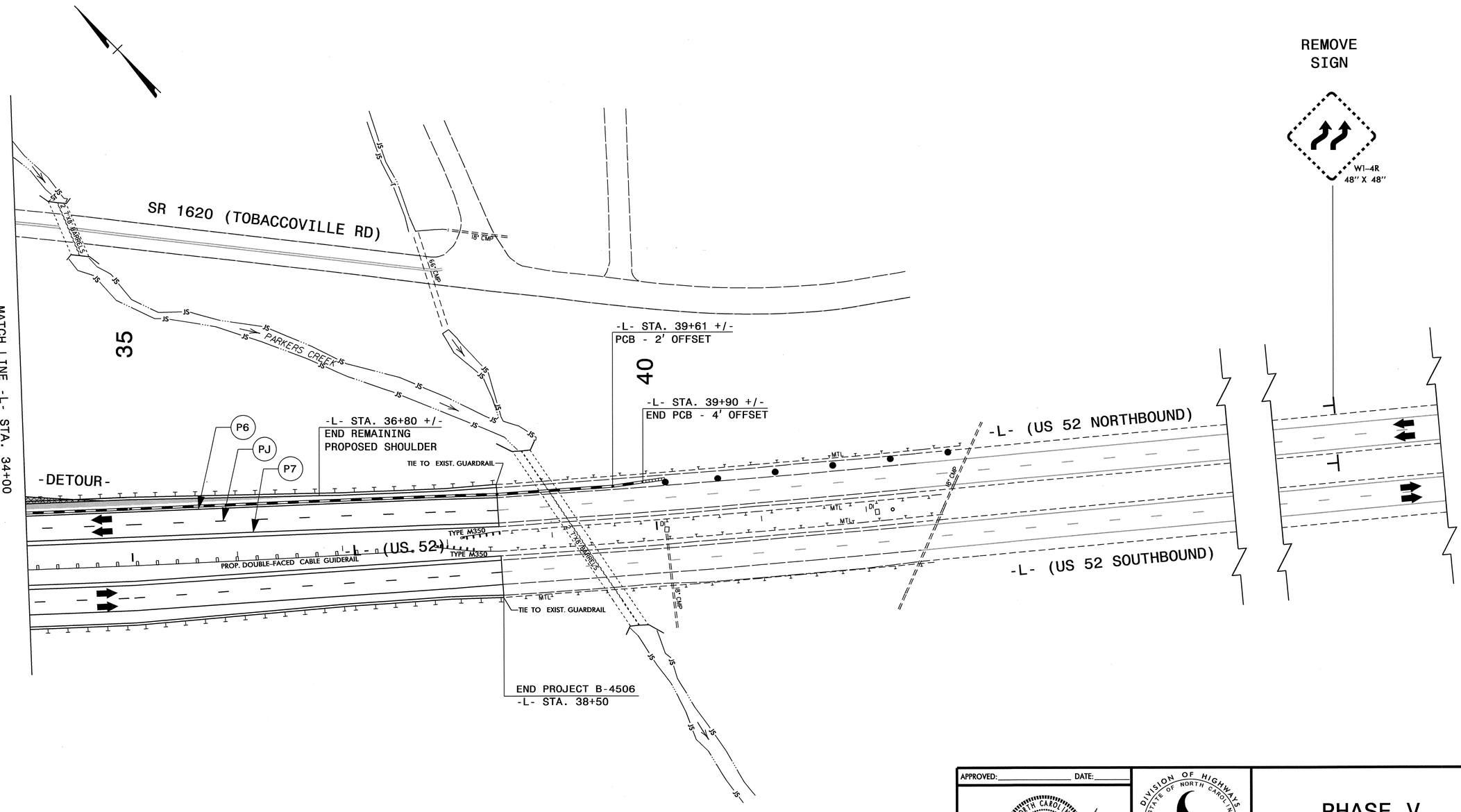
sblennings AT TE24473

PROJ. REFERENCE NO.	SHEET NO.
B-4506	TMP-21

NOTE: INSTALL SHOULDER CLOSURE SIGNS AS REQUIRED.
(SEE RSD 1101.04 SHEET 1 OF 1)



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Dec 29, 2011

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

PHASE V
(Sheet 3 of 3)

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sbjennings AT TE24473