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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO. SHEET NO. U-4008 TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

ORANGE COUNTY

STD. NO.

INDEX OF SHEETS

SHEET NO. TITLE LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS. TCP-1 LEGEND, TEMP. PAVEMENT MARKING SCHEDULE, AND INDEX OF SHEETS PROJECT NOTES TCP-2 THRU TCP-3 TCP-4 PHASING PHASE I DETAILS TCP-5 THRU TCP-6

TCP-7 THRU TCP-10 PHASE II DETAILS TCP-11 DETAIL DRAWINGS FOR ADVANCE WORK ZONE WARNING SIGNS

REPLACEMENT DETAIL FOR RSD 1101.04 TCP-12 REPLACEMENT DETAIL FOR RSD 1130.01 TCP-13 REPLACEMENT DETAIL FOR RSD 1145.01 TCP-14

FINAL PAVEMENT MARKING SCHEDULE PM-2 THRU PM-4 FINAL PAVEMENT MARKING PLANS

TEMP. PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM/QUANTITY BREAKDOWN	TOTAL QUANTITY
	PAVEMENT MARKING LINES	BILLARDOWN	<u> </u>
	PAINT (4")		
PA PB PC PD PE	WHITE EDGELINE (2X) YELLOW EDGELINE (2X) 3M WHITE SKIP (2X) 0.5M WHITE MINISKIP (2X) WHITE SOLID LANE LINE (2X)	36,000 LF 22,500 LF 8000 LF 1300 LF 9700 LF	TOTAL 04 000 LE
PI	YELLOW DOUBLE CENTER LINE (2X)	16,500 LF	TOTAL 94,000 LF
PR	PAINT (8") WHITE GORELINE (2X)	600 LF	TOTAL 600 LF
	PAINT (24")		
P4	WHITE STOP BAR (2X)	1400 LF	TOTAL 1400 LF
	PAINT SYMBOLS		
QA QB QC	LEFT TURN ARROW (2X) RIGHT TURN ARROW (2X) STRAIGHT ARROW (2X)	72 EA 56 EA 40 EA	
QE	COMBO STRAIGHT & RÍGHT TURN ARROW		TOTAL 170 EA
	PAINT CHARACTERS		
QI	ALPHANUMERIC CHARACTER (2X)	96 EA	TOTAL 96 EA
	TEMPORARY RAISED MARKERS		
MH MI	YELLOW AND YELLOW CRYSTAL AND RED	103 EA 2405 EA	TOTAL 2508 EA

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" -ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JANUARY 2002 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

TITLE

	Will and the second a
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
 1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

TEMPORARY PAVEMENT MARKING SCHEDULE NOTES:

- AS DIRECTED BY THE ENGINEER, TEMPORARY PAVEMENT MARKING (PAINT) MAY BE USED TO STRIPE THE FINAL TRAFFIC PATTERN ON -L- AND ALL -Y- LINES. THE TEMPORARY PAVEMENT MARKING SCHEDULE INCLUDES QUANTITIES FOR PLACING TWO APPLICATIONS OF PAINT ON THE FINAL SURFACE OF NEW ASPHALT WITH PERMANENT TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE UNTIL THE PROPOSED FINAL PAVEMENT MARKING (POLYUREA) IS APPLIED.
- FOR EACH PAINT PAVEMENT MARKING ITEM, 1X IMPLIES A SINGLE APPLICATION, 2X IMPLIES TWO APPLICATIONS AND 3X IMPLIES THREE APPLICATIONS.

LEGEND

GENERAL

DIRECTION OF TRAFFIC FLOW

PROPOSED PVMT. ----- EXIST. PVMT.

WORK AREA



REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

T TYPE I BARRICADE

TYPE III BARRICADE

▲ CONE

FLASHING ARROW PANEL (TYPE C)

TYPE 'B' WARNING LIGHT

STATIONARY SIGN

PORTABLE SIGN

STATIONARY OR PORTABLE SIGN

WARNING FLAGS

CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

POLICE

FLAGGER

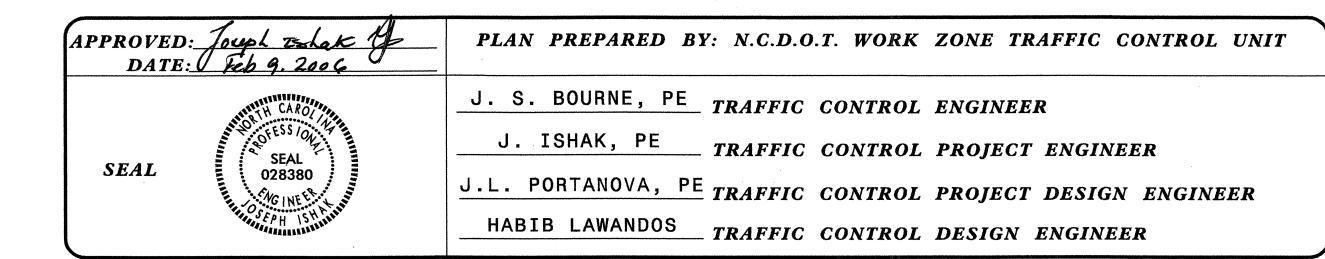
PAVEMENT MARKINGS

CRYSTAL/CRYSTAL PAVEMENT MARKER

YELLOW/YELLOW PAVEMENT MARKER

CRYSTAL/RED PAVEMENT MARKER

↑ ↑ ↑ PAVEMENT MARKING SYMBOLS



ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES.

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

1. -L- & -Y2A- (US 15/501 NB & SB)
AND
-Y3- (ERWIN RD)

7AM - 9PM MONDAY THRU FRIDAY 10AM - 9PM SATURDAY AND SUNDAY

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

ROAD NAME

- 1. -L- & -Y2A-(US 15/501)
- 2. -Y3- (ERWIN RD)

HOLIDAY

- 1. FOR ANY EVENT THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 9 P.M. DECEMBER 31ST TO 7 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 7 A.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 9 P.M. THURSDAY AND 7 A.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 9 P.M. FRIDAY TO 7 A.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 9 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 7 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A SATURDAY OR SUNDAY, THEN BETWEEN THE HOURS OF 9 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 9 P.M. FRIDAY TO 7 A.M. TUESDAY.

PROJECT NOTES

- 7. FOR THANKSGIVING, BETWEEN THE HOURS OF 9 P.M. TUESDAY TO 7 A.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 9 P.M. THE FRIDAY
 BEFORE THE WEEK OF CHRISTMAS DAY AND 7 A.M. THE FOLLOWING
 MONDAY AFTER THE WEEK OF CHRISTMAS.
- C) DO NOT STOP TRAFFIC OR CLOSE ROADS AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

- 1. -L- & -Y2A- (US 15-501) 6AM 12AM (MIDNIGHT) MONDAY THRU SUNDAY
- D) DO NOT STOP TRAFFIC FOR MORE THAN 15 MINUTES AS FOLLOWS:

ROAD NAME

OPERATION

1. -L- & -Y2A- (US 15-501)

ANY OPERATION THAT REQUIRES STOPPING TRAFFIC

E) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR OTHERWISE DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- F) 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.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT (12m) 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.
- H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT (1.5m) 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 (3m) 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.

- I) 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.
- J) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.

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U-4008
TCP-2

- K) DO NOT INSTALL MORE THAN ONE MILE OF LANE CLOSURE ON US 15/501, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- L) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON US 15/501.

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 A DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES (50mm) ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES (75mm) ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

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

M) DO NOT EXCEED A DIFFERENCE OF 1.5 inches (40mm) IN ELEVATION
BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN
LANES" SIGNS (W8-11) 500 FT (150m) IN ADVANCE AND A MINIMUM OF ONCE
EVERY MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

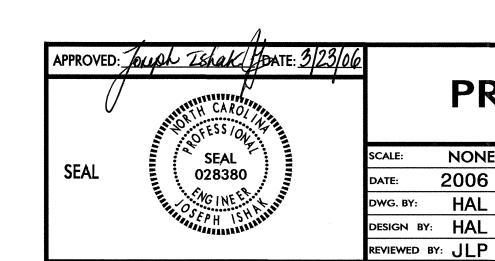
O) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

P) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT (31m) FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

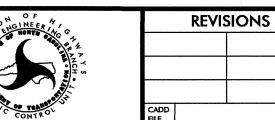
WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK,
REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY
THE ENGINEER, AT NO COST TO THE DEPARTMENT.

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



PROJECT NOTES

NONE
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PROJECT NOTES

GENERAL NOTES CONT'D

PROJ. REFERENCE NO. SHEET NO. U-4008 TCP-3

TRAFFIC CONTROL DEVICES

- S) WHEN USING ROADWAY STANDARD NO. 1101.02, CONES MAY BE USED IN LIEU OF DRUMS ON ALL ROADS.
- T) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.
- U) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT (150m) CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
1L- & -Y2A-(US 15/501)	THERMOPLASTIC	PERM. RAISED
2. ALL -Y- LINES	THERMOPLASTIC	PERM. RAISED

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

ROAD NAME	MARKING	MARKER
1L- & -Y2A-(US 15/501)	PAINT	TEMP. RAISED
2. ALL -Y- LINES	PAINT	TEMP. RAISED

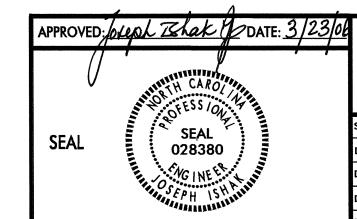
- X) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Y) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.
- Z) TRACE THE EDGE OF PROPOSED MONOLITHIC ISLANDS WITH THE PROPER COLOR PAVEMENT MARKING PRIOR TO INSTALLATION OF A PROPOSED MONOLITHIC ISLAND.
- AA) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

TEMPORARY/FINAL SIGNALS

- BB) NOTIFY THE ENGINEER TWO (2) MONTHS BEFORE A TRAFFIC SIGNAL INSTALLATION BY OTHERS IS REQUIRED.
- CC) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

MISCELLANEOUS

DD) PLACE DRUMS TO DELINEATE ISLANDS BEFORE INSTALLATION.



PROJECT NOTES

SCALE:	NONE
DATE:	2006
DWG. BY:	HAL
DESIGN BY:	HAL
REVIEWED BY	^{(:} JLP



REVISIONS

PHASING NOTE:

- UNLESS OTHERWISE STATED IN THE PLANS, RETURN TRAFFIC TO EXISTING PATTERN BY THE END OF THE WORK DAY.

PHASE 1

STEP 1 - INSTALL ALL WORK ZONE SIGNS ACCORDING TO TCP-5 & 6.

COMPLETE THE WORK REQUIRED IN STEP 2 IN HUNDRED AND EIGHTY (180) CONSECUTIVE CALENDAR DAYS. SEE ICT AND SPECIAL PROVISIONS.

NOTE:

- * MAINTAIN ACCESS TO PARCEL #2 (DUKE POWER) AT ALL TIME DURING THE CLOSURE OF -Y4A- (DOBBINS DR.).
- STEP 2 USING SHEETS TCP-6 AND TCP-8, PERFORM THE FOLLOWING:
 - * CLOSE -Y4A- (DOBBINS DR.) AS SHOWN ON SHEET TCP-6.
 - * CONSTRUCT THE PROPOSED -Y4A- (DOBBINS DR.) FROM -Y4A- STA 10+12+/- TO STA 22+37+/-. UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. AND CONSTRUCT THE PROPOSED RETAINING WALL AS SHOWN ON SHEET TCP-6.
 - * PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND TEMPORARY MARKERS (TEMPORARY RAISED) ON PROPOSED -Y4A- (DOBBINS DR.) FROM -Y4A- STA 10+12+/-TO STA 22+37+/- AND OPEN TO TRAFFIC. SEE SHEET TCP-8.
 - AWAY FROM TRAFFIC, MAY BEGIN CONSTRUCTION UP TO, BUT NOT INCLUDING, FINAL SURFACE LAYER ON -Y- FROM -Y- STA 10+22+/- TO STA 12+00+/- (SEE TCP-5)
 - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 7, MAY BEGIN CONSTRUCTION UP TO EDGE AND ELEVATION OF EXISTING AT THE FOLLOWING LOCATIONS:

FROM -L- LT STA 16+00+/- TO -L- LT STA 24+06+/- (US 15/501 SB) (SEE TCP-5) FROM -Y2A- RT 14+77+/- TO -Y1- RT STA 11+48+/- (US 15/501 NB) (SEE TCP-5) FROM -Y3- LT STA 22+12+/- (ERWIN RD.) TO -L- LT STA 36+50+/- (SEE TCP-6) FROM -Y1- LT STA 10+50+/- (EUROPA DR.) TO -Y2A- RT 35+74+/- (SEE TCP-5 & 6)

FROM -L- RT STA 16+00+/- TO -L- RT STA 22+81+/- (US 15/501 SB) (SEE TCP-5) FROM -L- RT STA 26+50+/- TO -L- RT STA 36+50+/-. (US 15/501 SB) (SEE TCP-6) FROM -Y2A- LT STA 14+77+/- TO -Y2A- LT STA 22+05+/- (US 15/501 NB) (SEE TCP-5) FROM -Y2A- LT STA 25+70+/- TO -Y2A- STA 31+83+/- (US 15/501 NB) (SEE TCP-6)

- AWAY FROM TRAFFIC, MAY BEGIN CONSTRUCTION OF BIKE PATH (-Y6-) FROM STA 10+17+/- TO STA 12+17+/-. (SEE TCP-6)
- STEP 3 USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEETS 1 OF 7 AND 3 OF 7, PERFORM THE FOLLOWING:
 - * COMPLETE CONSTRUCTION UP TO EDGE AND ELEVATION OF EXISTING AT THE FOLLOWING LOCATION:

FROM -Y2A- RT 14+77+/- TO -Y1- RT STA 11+48+/- (US 15/501 NB) (SEE TCP-5) FROM -Y1- LT STA 10+50+/- (EUROPA DR.) TO -Y2A- RT 35+74+/- (SEE TCP-5 & 6)

* PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y2A- AND -Y1- ACCORDING TO TCP-7 & 8 AND SHIFT TO TEMPORARY PATTERN BY THE END OF THE WORK DAY.

PHASE 2

STEP 1 - USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 7, COMPLETE CONSTRUCTION UP TO EDGE AND ELEVATION OF EXISTING AT THE FOLLOWING LOCATIONS:

> FROM -L- LT STA 16+00+/- TO -L- LT STA 24+06+/- (US 15/501 SB)(SEE TCP-7) FROM -Y3- LT STA 22+12+/- (ERWIN RD.) TO -L- LT STA 30+63+/- (SEE TCP-8) FROM -L- LT STA 32+82+/- TO -L- LT 36+50+/- (US 15/501 SB) (SEE TCP-8)

FROM -L- RT STA 16+00+/- TO -L- RT STA 22+81+/- (US 15/501 SB) (SEE TCP-7) FROM -L- RT STA 26+50+/- TO -L- RT STA 36+50+/- (US 15/501 SB) (SEE TCP-8) FROM -Y2A- LT STA 14+77+/- TO -Y2A- LT STA 22+05+/- (US 15/501 NB) (SEE TCP-7) FROM -Y2A- LT STA 25+70+/- TO 31+83+/- (US 15/501 NB) (SEE TCP-8) FROM -Y2A- RT STA 11+00+/- TO -Y2A- RT 14+25+/- (PVMT REM)(US 15/501 NB)(SEE TCP-7)

- AWAY FROM TRAFFIC, COMPLETE CONSTRUCTION UP TO, BUT NOT INCLUDING, FINAL SURFACE LAYER OF THE FOLLOWING: FROM -Y- STA 10+22+/- TO STA 12+00+/- (SEE TCP-7)
- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 7, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y-, -Y2A- AND -L- ACCORDING TO TCP-9 & 10 AND SHIFT TO TEMPORARY TRAFFIC PATTERN BY THE END OF THE WORK DAY.
- INSTALL AND ACTIVATE TEMPORARY SIGNALS.
- STEP 2 USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 7, CONSTRUCT UP TO, BUT NOT INCLUDING THE FINAL SURFACE COURSE AT THE FOLLOWING LOCATIONS:

FROM -L- RT STA 22+81+/- TO -L- RT STA 26+50+/- (SEE TCP-9 &10) FROM -Y2A- LT STA 22+05+/- TO -Y2A- LT STA 25+70+/- (SEE TCP-9 & 10)

- COMPLETE THE ENTIRE BIKE PATH (-Y6-). (SEE TCP-10)
- STEP 2A- REMOVE EXISTING SIGNALS AND BEGIN INSTALLATION OF PROPOSED SIGNALS.
- STEP 3 USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 7, PLACE THE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS AT THE FOLLOWING LOCATIONS: FROM -L- STA 16+00+/- TO STA 36+50+/- (US 15/501 SB)

FROM -Y2A- STA 14+77+/- TO STA 35+74+/- (US 15/501 NB)

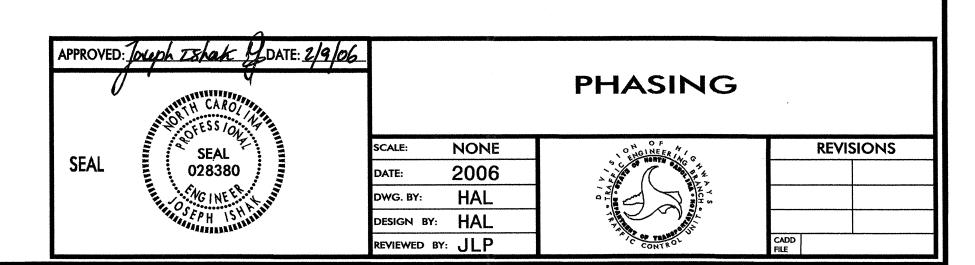
- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 7, PLACE THE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS AT THE FOLLOWING LOCATIONS:

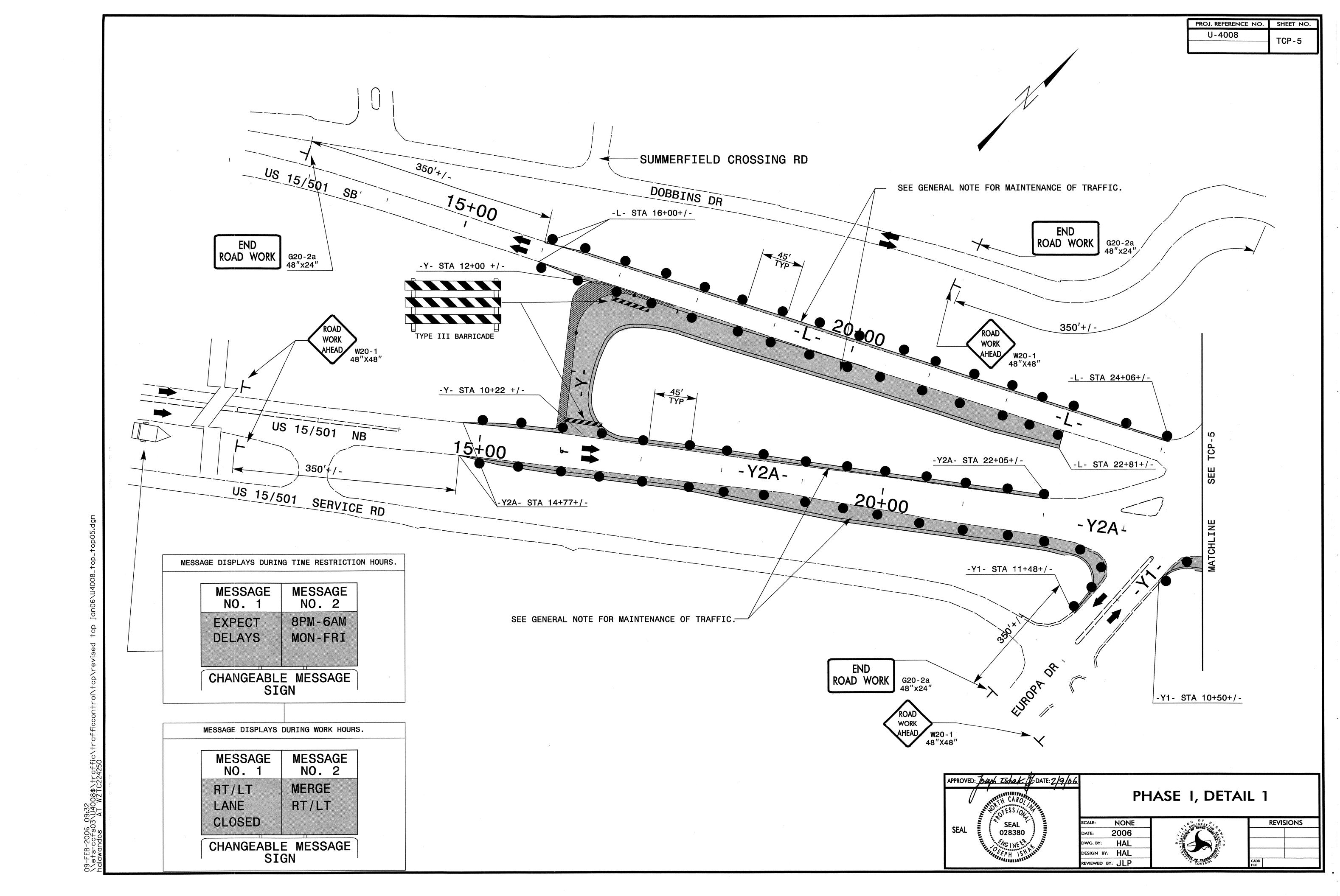
FROM -Y1- STA 10+30+/- TO STA 11+48+/- (EUROPA DR.) FROM -Y3- STA 18+50+/- TO STA 22+84+/- (ERWIN RD.)

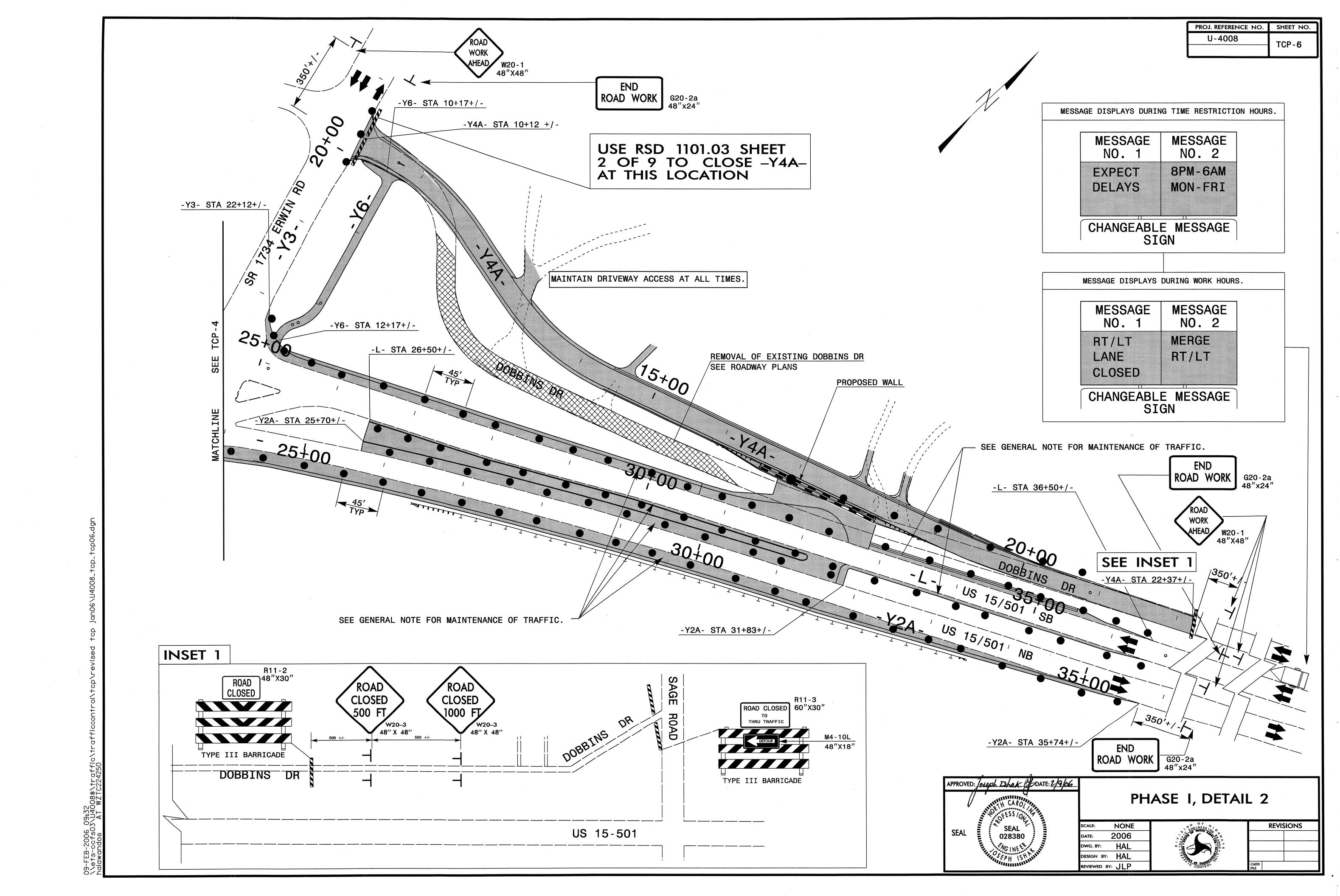
FROM -Y- STA 10+22+/- TO STA 13+19+/-

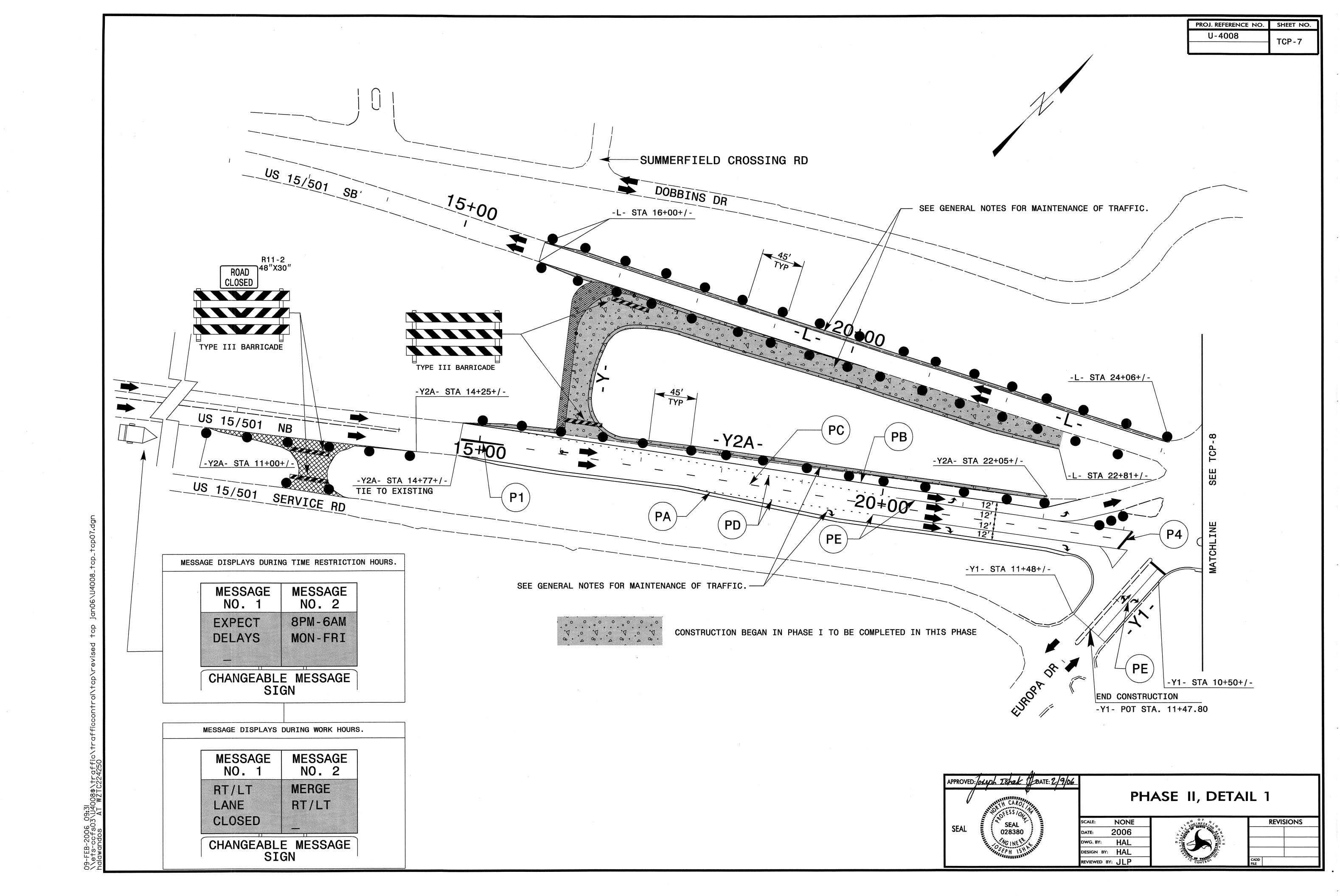
FROM -Y4A- STA 10+12+/- TO STA 22+37+/- (DOBBINS DR.)

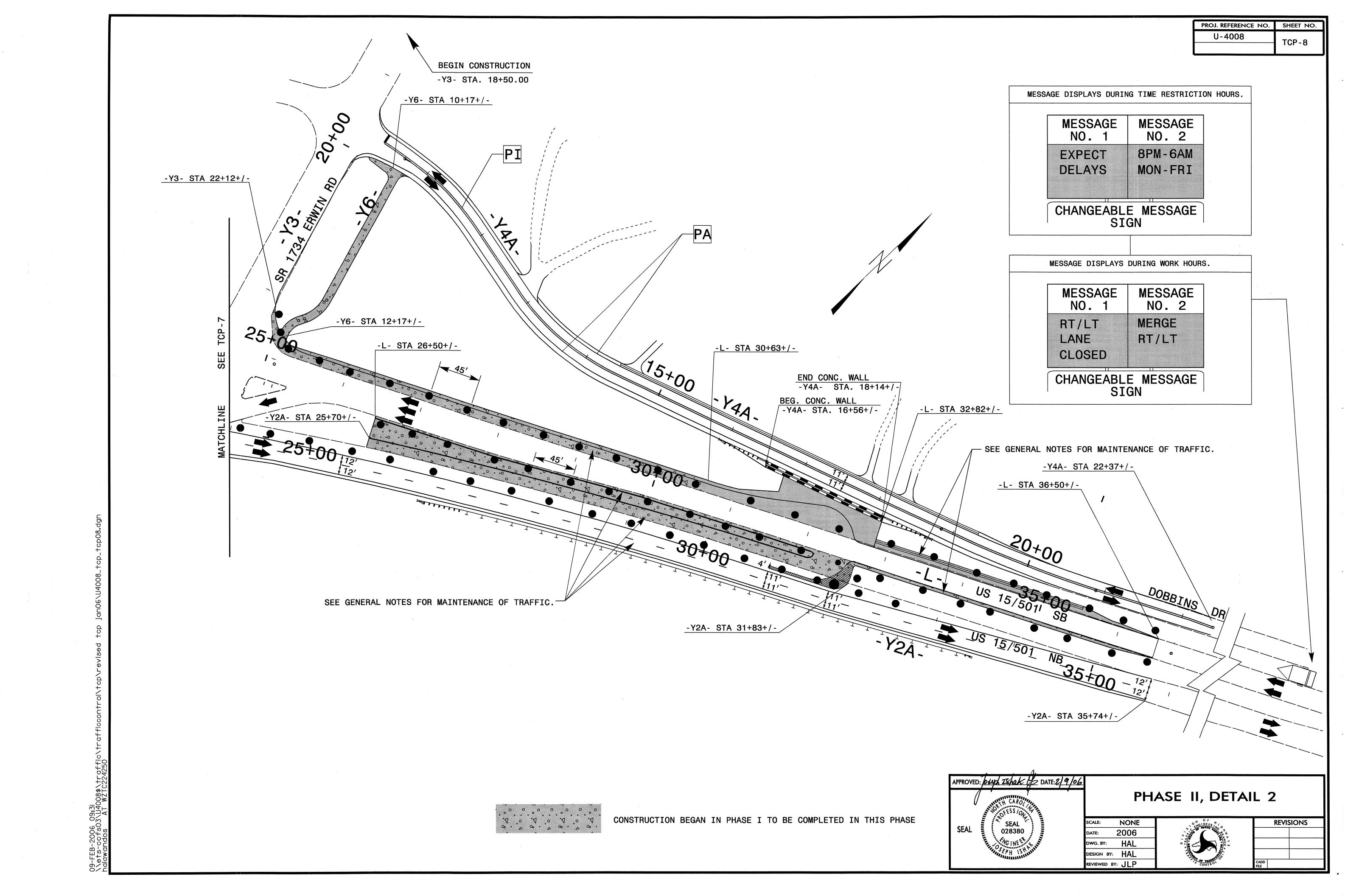
- USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 7, PLACE THE REMAINING FINAL PAVEMENT MARKINGS ON -Y3- (ERWIN RD.) AS SHOWN ON PM-4.
- COMPLETE INSTALLATION AND ACTIVATE PROPOSED SIGNALS.
- REMOVE TEMPORARY SIGNALS.
- OPEN TO FINAL PATTERN.
- STEP 4 REMOVE ANY REMAINING TRAFFIC CONTROL DEVICES.

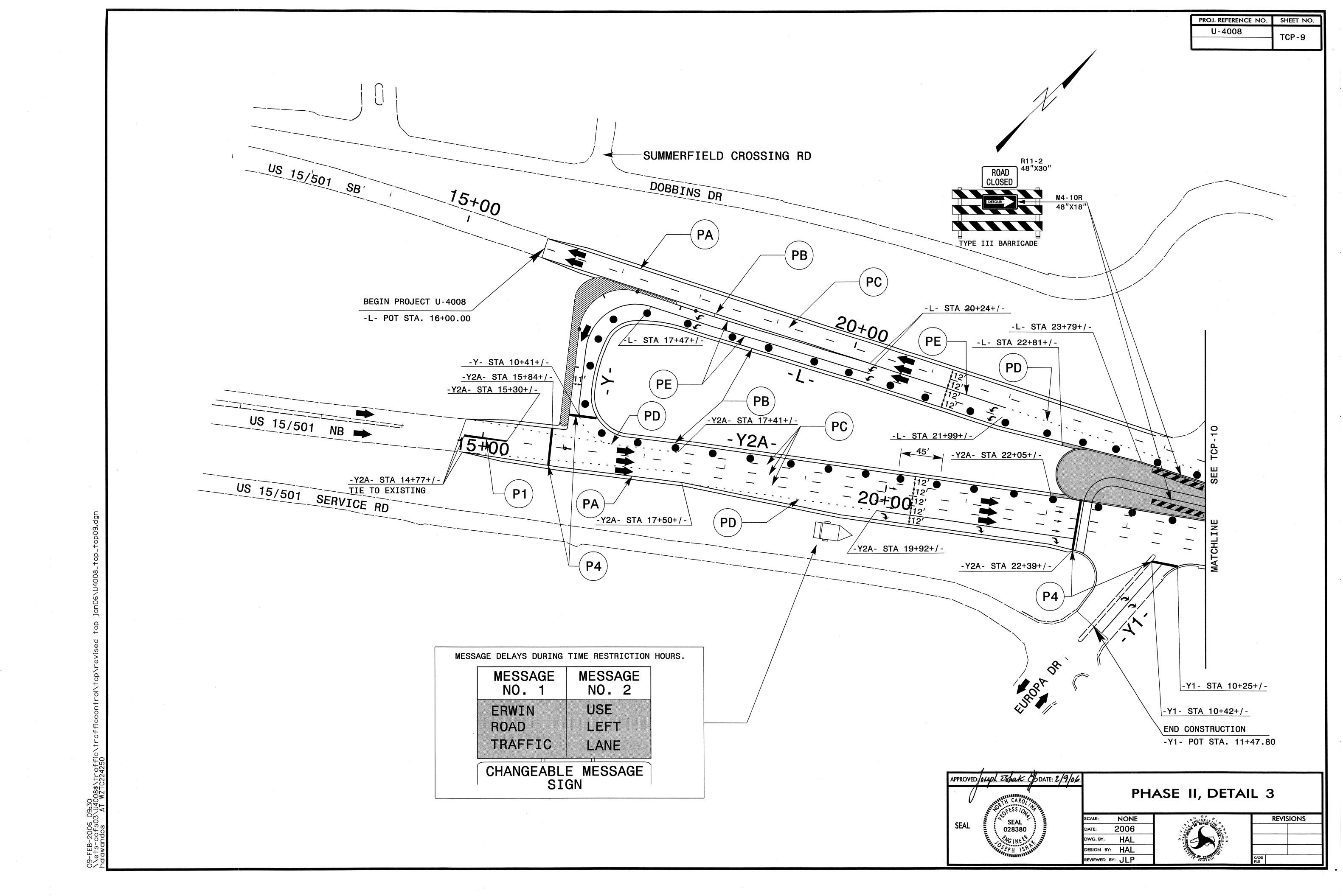


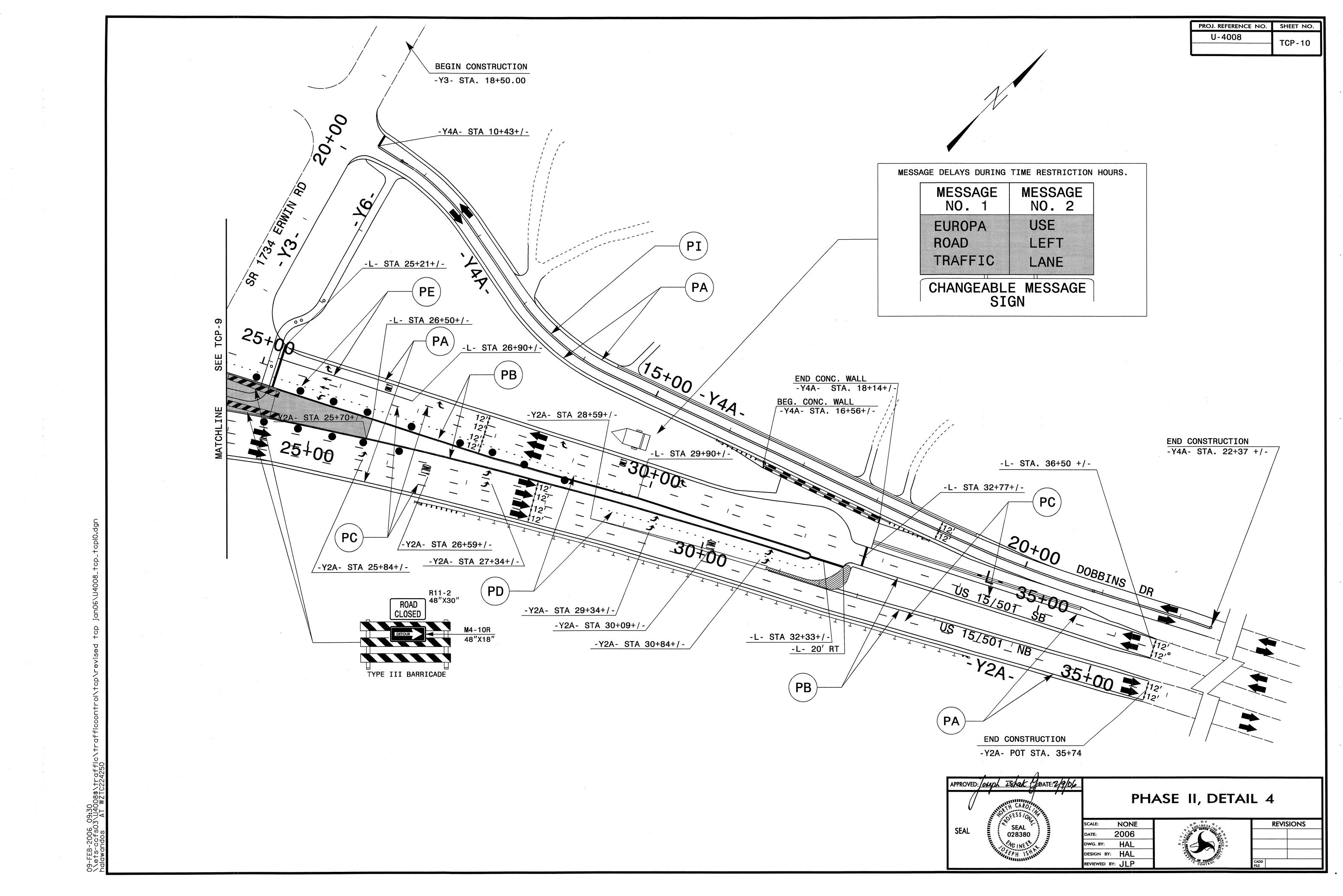












2 0

ROL NOR 9

DRAWING FOUND SONE SIGNS DETAIL WORK

GENERAL NOTES FOR THE "BEGIN ROAD WORK" SIGN

STD #: W20-1

DATE: Aug 20,2003

Series/Size

Text Length

C7

21.6

C7

19.6

C7

21.2

NORTH CAROLINA D.O.T. SIGN DETAIL

CHECKED BY: CHECKED

DIV: DIV

BEGIN

ROAD

WORK

-SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS -WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO SHEETS TCP-4 AND TCP-5

SP 03353

PROJECT ID: ALL PROJECTS

BORDER

TH=0.75" IN=0.59"

Letter spacings are to start of next letter

R=1.38"

BACKG COLOR: Fluorescent Orange | DESIGN BY: CL DOWNEY

X Y WID HT

SIGN NUMBER: SP-03353

QUANTITY: 1

SIGN WIDTH: 4'-0" HEIGHT: 4'-0"

TOTAL AREA: 16.0 Sq.Ft.

BORDER TYPE: FLUSH RECESS: 0.59" WIDTH: 0.75" RADII: 1.38"

NO. Z BARS: N/A LENGTH: N/A

LETTER POSITIONS

USE NOTES: 2, 4

non-reflective sheeting.

Type VII reflective sheeting.

Legend and border shall be direct applied

2. Legend and border shall be direct applied

sheeting on 0.032" (0.8mm) aluminum and demountable. Background shall be Type VII reflective sheeting.

Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

5-Background shall be Type I reflective sheeting.

7-Bottom panel shall be yellow Type III sheeting.

B E G I N

22.4 5.3 4.6 5.4 2.5 3.8 22.4

R O A D

WORK

22.6 6.4 5.6 5.2 4 22.6

Spacing Factor is 1 unless specified otherwise

23.4 5 5.2 5.6 3.8 23.4

3. Shields shall be Type VII reflective

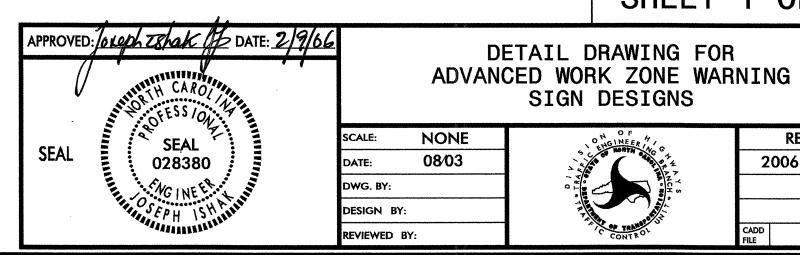
6.Center arrow(s) vertically on sign.

TYPE: A

SHEET 1 OF 1

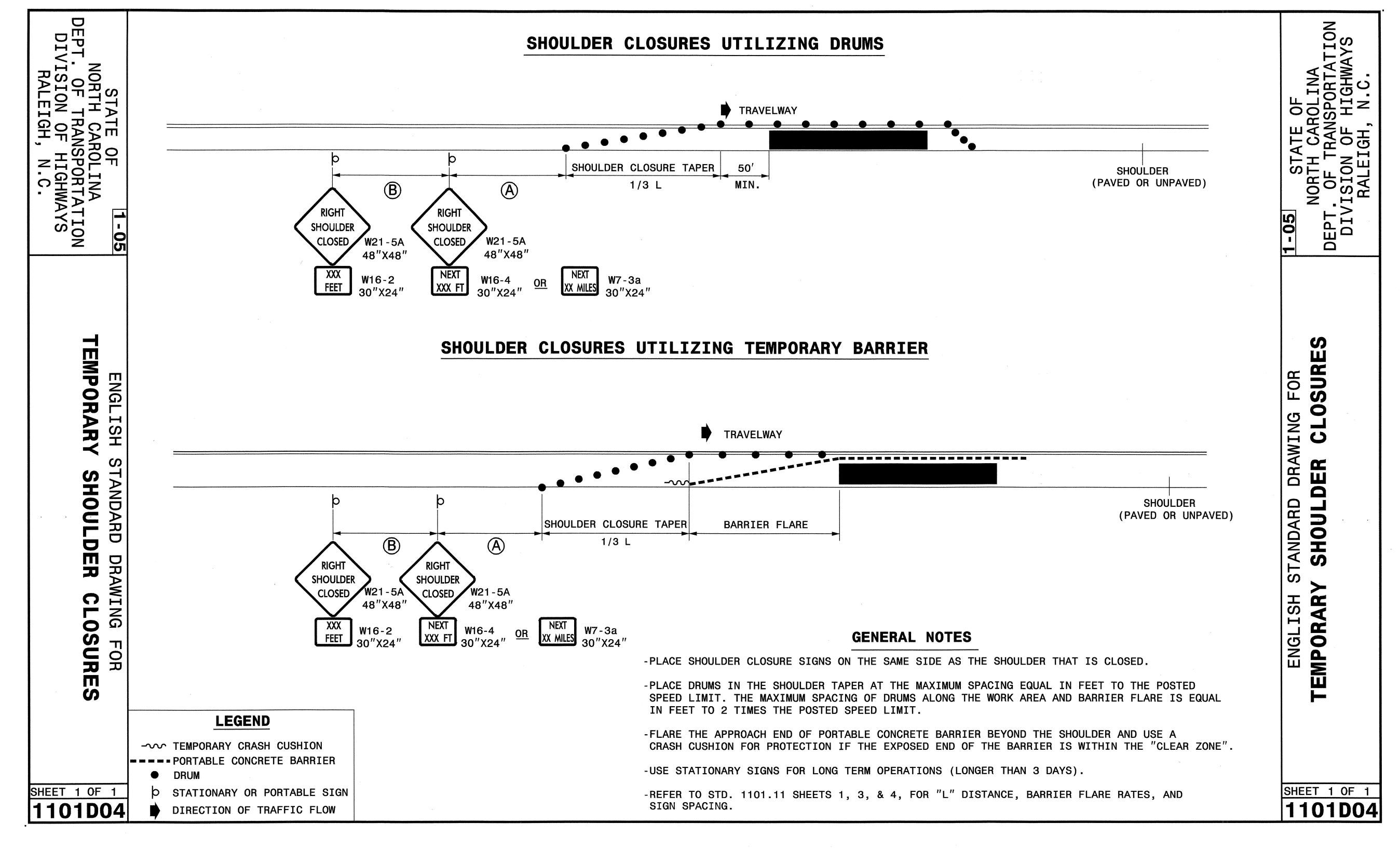
REVISIONS

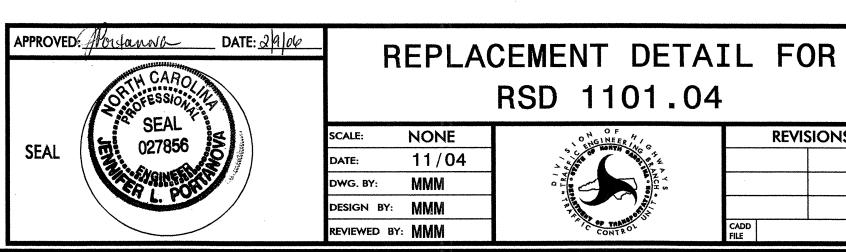
2006



SHEET NO. PROJ. REFERENCE NO. U-4008 TCP-12

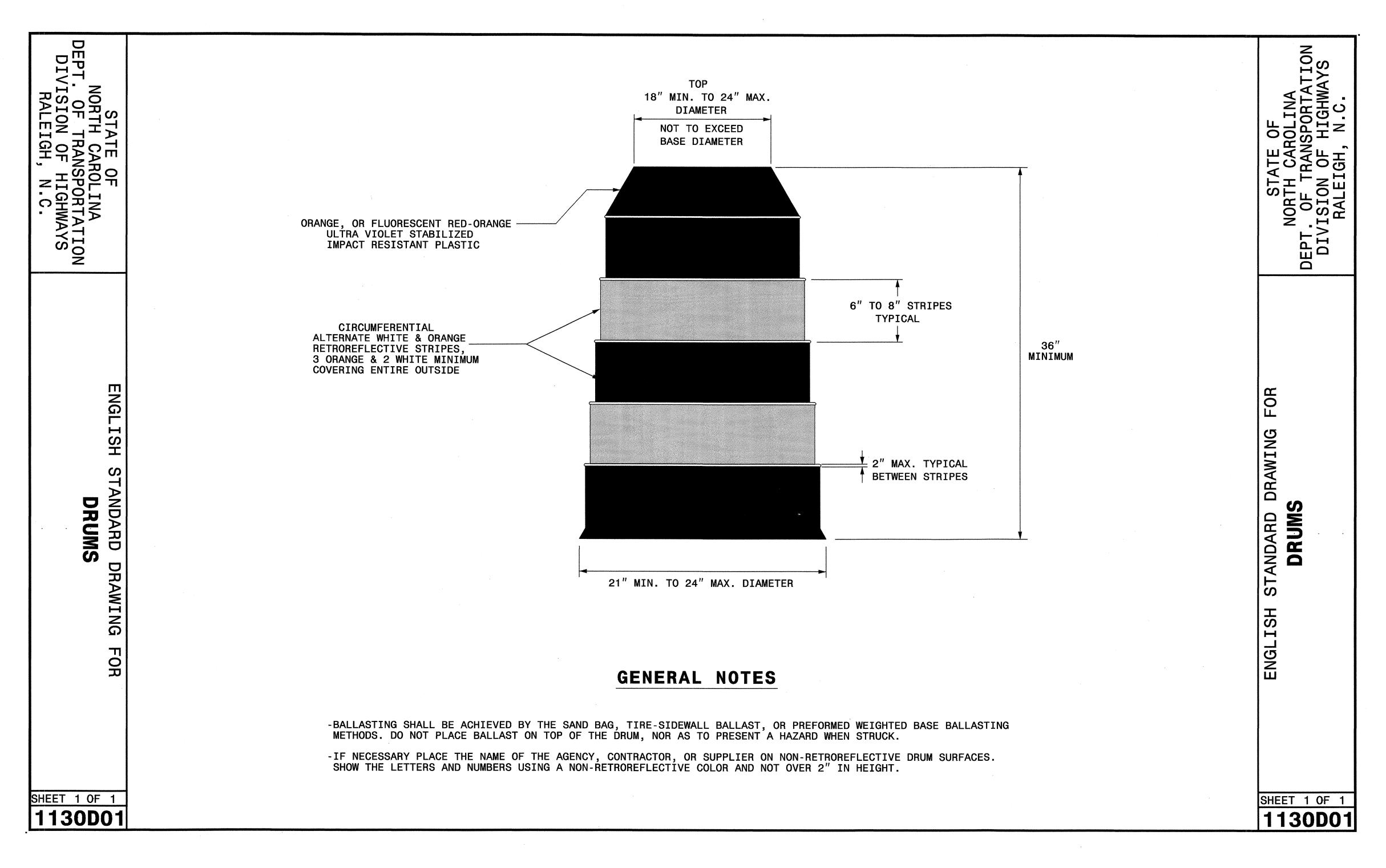
REVISIONS

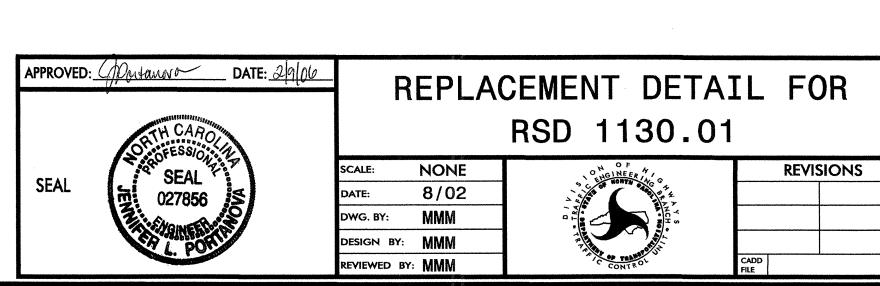




PROJ. REFERENCE NO. SHEET NO.

U-4008
TCP-13



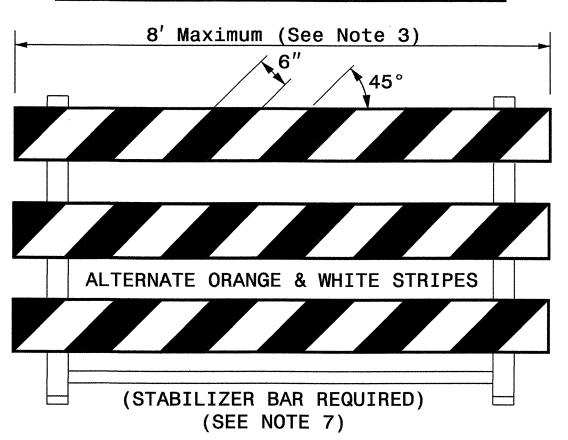


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PROJ. REFERENCE NO. SHEET NO. **U-4008** TCP-14

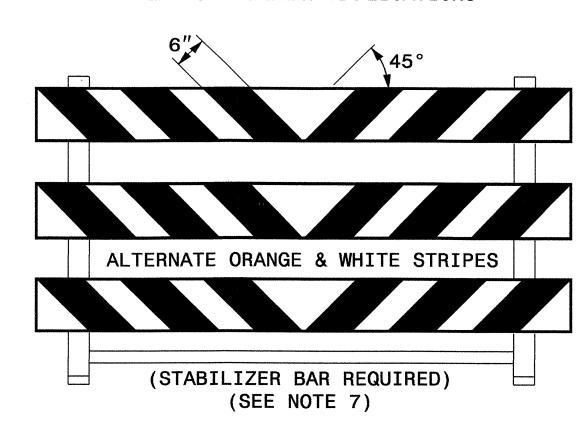
OLINA SPORTATION HIGHWAYS

TYPE III BARRICADE



TYPE III BARRICADE

END-OF-ROADWAY APPLICATIONS



GENERAL NOTES

- 1) HORIZONTAL RAILS FOR TYPE-III BARRICADES MAY BE HOLLOW/CORRUGATED EXTRUDED RIGID POLYOLEFIN, HIGH DENSITY POLYETHYLENE, OR OTHER NCDOT APPROVED RAILS. BARRICADE RAILS OF FRANGIBLE PLASTICS SUCH AS PVC MAY NOT BE USED. IF APPROVED PLASTIC TYPE RAILS ARE USED, THEY MUST BE FLAME TREATED BY THE MANUFACTURER SO THAT REFLECTIVE SHEETING MAY ADHERE PROPERLY.
- 2) BARRICADES AND BARRICADE RAILS ARE APPROVED AS A SINGLE UNIT.
- 3) BARRICADE SHALL BE LIMITED TO A MAXIMUM LENGTH OF 8 FT UNLESS NCHRP 350 CRASH TESTED AND NCDOT APPROVED.
- 4) ONLY NCDOT APPROVED COMPOSITE AND ROLL-UP SIGNS MAY BE MOUNTED ON THE BARRICADE.
- 5) SIGNS MOUNTED ON BARRICADES SHOULD NOT COVER MORE THAN 50 PERCENT OF THE TOP TWO RAILS OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS.
- 6) USE TYPE VII, VIII OR IX SHEETING ON BOTH SIDES OF THE RAILS.
- 7) BARRICADE MUST BE NCHRP 350 AND NCDOT APPROVED WITH STABILIZER BAR OR ADEQUATE LATERAL BRACING.
- 8) ASSEMBLY OF THE GENERIC BARRICADES MUST BE SELF CERTIFIED BY THE ASSEMBLER.
- 9) BARRICADES USED TO CLOSE A ROADWAY SHALL EXTEND ACROSS THE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED PATTERN.
- 10) STRIPES ON WORK ZONE BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE RETROREFLECTIVE STRIPES, SLOPED DOWNWARD TOWARDS THE SIDE WHICH TRAFFIC IS TO PASS OR TURN IN DETOURING. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES. USE RED AND WHITE STRIPES FOR PERMANENT BARRICADES.
- 11) SEE APPROVED PRODUCTS LIST FOR MANUFACTURERS OF APPROVED BARRICADES.
- 12) PLACE MANUFACTURER'S NAME AND FEDERAL HIGHWAY ADMINISTRATION'S NCHRP 350 APPROVAL LETTER NUMBER ON BARRICADE.
- 13) USE SANDBAGS PLACED ON THE LOWER PART OF THE FRAME FOR BALLASTING. DO NOT PLACE SANDBAGS ON TOP OF A STRIPED RAIL. DO NOT BALLAST BARRICADES BY HEAVY OBJECTS SUCH AS ROCKS, CHUNKS OF CONCRETE OR OTHER ITEMS THAT WOULD CAUSE DAMAGE IF THE BARRICADE IS STRUCK BY A VEHICLE.

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SICADE STANI BARR TYI

SHEET 1 OF 1

1145D01

DRAW!

SHEET 1 OF 1 1145D01

> APPROVED: APONOUNA _ DATE: <u>2 9/04</u> REPLACEMENT DETAIL FOR RSD 1145.01 **REVISIONS** NONE SEAL 11/04 MMM