# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO. B-4318

# PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

# WATAUGA COUNTY

## ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03 1101.04	TEMPORARY ROAD CLOSURES 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
1130.02 1145.01	CONE BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01 1205.01	PORTABLE CONCRETE BARRIER PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.01	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02 1262.01	GUARDRAIL & BARRIER DELINEATOR TYPES GUARDRAIL END DELINEATION

# INDEX OF SHEETS

### SHEET NO.

#### TITLE

TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, PAVEMENT MARKING SCHEDULE, AND INDEX OF SHEETS
TCP-2	GENERAL NOTES
TCP-3	PROJECT PHASING
TCP-4	PHASE I DETAIL
TCP-5	PHASE II DETAIL
TCP-6	DETAIL DRAWING FOR ADVANCE WORK ZONE WARNING SIGNS

	PAVEME	NT MARKING	SCE	<i>IEDU</i>	LE	
SYMBOL	DESCRIPTION	PAY ITEM	QUANT	ITY	TOTAL	
	T	EMPORARY PAVEMENT MARKING PAINT (4")	iS			
PA	WHITE EDGELINE (2X)		2930	LF		
				TOTAL	2930	LF
	COLD APPLIED	PLASTIC (4") TYPE 4 - RE	MOVABLE	TAPE		
CA	WHITE EDGELINE		570	LF		
				TOTAL	570	LF
SYMBOL	DESCRIPTION	PAY ITEM	QUANT	ITY	TOTAL	
	COLD APPLIED PLASTIC	FINAL PAVEMENT MARKINGS C (4") TYPE 3 - PERMANENT	WET REF	LECTIVE		
CA CI	WHITE EDGELINE YELLOW DOUBLE CENTER		954 954	LF LF		
				TOTAL .	1908	LF
	•					

"2X" DENOTES TWO APPLICATIONS OF PAINT

## **LEGEND**

### **GENERAL**

DIRECTION OF TRAFFIC FLOW

NORTH ARROW — PROPOSED PVMT. ----- EXIST. PVMT.

**WORK AREA** 

REMOVAL OF EXISTING PAVEMENT

### TRAFFIC CONTROL DEVICES

TYPE I BARRICADE

**Ⅲ TYPE II BARRICADE** 

TYPE III BARRICADE

**CONE** 

SKINNY DRUM

FLASHING ARROW PANEL (TYPE C)

- STATIONARY SIGN

PORTABLE SIGN

STATIONARY OR PORTABLE SIGN

---- 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

BA A May AFF.

9-10-08 DATE: PLAN PREPARED N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION SECTION LIST OF CONTACTS \_APPROVED: FOR NCDOT BY: STUART BOURNE, P.E. B.A. MAY, P.E. TRAFFIC CONTROL ENGINEER PROJECT ENGINEER JOSEPH ISHAK, P.E. C.L. MULLEN DESIGN ENGINEER TRAFFIC CONTROL PROJECT ENGINEER SEAL TRAFFIC CONTROL PROJECT DESIGN ENGINEER HABIB LAWANDOS DESIGN TECHNICIAN TRAFFIC CONTROL DESIGN ENGINEER

# PROJ. REFERENCE NO. SHEET NO. B-4318 TCP-2

# GENERAL 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.

#### LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) 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.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN 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.
- C) 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.
- 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.
- E) 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.
- F) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

#### PAVEMENT EDGE DROP OFF REQUIREMENTS

G) 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.

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

#### TRAFFIC PATTERN ALTERATIONS

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

#### SIGNING

- J) 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.
- K) PROVIDE PERMANENT SIGNING.
- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

#### TRAFFIC BARRIER

M) 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 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.

N) 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 40 OR LESS 45 - 50

MINIMUM OFFSET 15 FT 20 FT

#### TRAFFIC CONTROL DEVICES

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

#### PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME -L- SR 1598 MARKING COLD APPLIED PLASTIC MARKER N/A

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

ROAD NAME -L- SR 1598 MARKING
PAINT/COLD APPLIED PLASTIC

MARKER

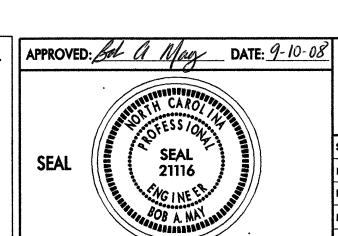
- S) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN

CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



# GENERAL NOTES

SCALE: NONE

DATE: 5/08

DWG. BY: CLM

DESIGN BY: CLM

REVIEWED BY: BAM



REVISIONS

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#### PHASE 1

- INSTALL ADVANCE WORK ZONE WARNING SIGNS ON SR 1598 AS SHOWN ON TCP-6. INSTALL AND COVER TEMPORARY YIELD SIGNING FOR PHASE I TRAFFIC PATTERN.
- STEP 2. USING RSD 1101.02 (SHT. 1 OF 9), CONSTRUCT TEMPORARY PAVEMENT ON LEFT SIDE OF EXISTING SR 1598 AS FOLLOWS (SEE TCP-4):
  - -L- STA. 13+00+/- TO STA. 15+50+/-
  - RETURN TRAFFIC TO EXISTING PATTERN AT THE END OF EACH WORKDAY.
- WORKING IN A CONTINUOUS MANNER AND USING RSD 1101.02, (SHT. 1 OF 9), PLACE TEMPORARY PAVEMENT MARKINGS AND SHIFT EXISTING TRAFFIC ONTO TEMPORARY PAVEMENT CONSTRUCTED IN STEP 2 (SEE TCP-4). SIMULTANEOUSLY UNCOVER TEMPORARY YIELD SIGNING INSTALLED IN STEP 1.
- USING RSD 1101.02, (SHT 1 OF 9), INSTALL ANCHORED PORTABLE CONCRETE BARRIER WITH TOP-MOUNTED DELINEATORS AS FOLLOWS:
  - -L- STA. 14+25+/- TO EXISTING BRIDGE RAIL
- USING RSD 1101.02, (SHT 1 OF 9), CONSTRUCT PROPOSED STRUCTURE, GUARDRAIL, AND APPROACHES UP TO, AND INCLUDING, THE FINAL LAYER AS FOLLOWS (SEE TCP-4):
  - -L- STA. 14+00+/- TO STA. 15+50+/- (12' PAVEMENT) -L- STA. 15+50+/- TO STA. 18+60+/- (FULL WIDTH PAVEMENT)
  - RETURN TRAFFIC TO THE CURRENT PATTERN AT THE END OF EACH WORKDAY.
  - MAINTAIN ACCESS TO EXISTING DRIVEWAYS AT ALL TIMES.
- INSTALL AND COVER TEMPORARY YIELD SIGNING FOR THE ONE-LANE, TWO-WAY TRAFFIC PATTERN IN PHASE II (SEE TCP-5).

#### PHASE II

STEP 1. PLACE TEMPORARY PAVEMENT MARKINGS ON -L- AND NEW STRUCTURE AS MUCH AS POSSIBLE (SEE TCP-5).

WORK IN A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING WORK OF PHASE II, STEP 2 AND STEP 3 IN ONE WORKDAY:.

STEP 2. USING RSD 1101.02 (SHT. 1 OF 9), CONSTRUCT -L- RIGHT SIDE TIE-INS UP TO, AND INCLUDING, THE FINAL LAYER AS FOLLOWS (SEE TCP-5):

-L- STA. 13+83.68 TO STA. 14+00+/--L- STA. 17+60+/- TO STA. 18+60.52

MAINTAIN ACCESS TO EXISTING DRIVEWAYS AT ALL TIMES IN A MANNER APPROVED BY THE ENGINEER.

- USING RSD 1101.02 (SHT. 1 OF 9), SHIFT SR 1598 TRAFFIC TO -L- IN A ONE-LANE, TWO-WAY PATTERN. UNCOVER TEMPORARY YIELD SIGNING INSTALLED IN PHASE I, STEP 6 (SEE TCP-5).
- STEP 4. REMOVE ANCHORED PORTABLE CONCRETE BARRIER INSTALLED IN PHASE I. USING RSD 1101.02, SHEET 1 OF 9, CONSTRUCT -L- LEFT SIDE AND LEFT SIDE TIE-INS UP TO, AND INCLUDING, THE FINAL LAYER AS FOLLOWS:
  - -L- STA. 13+83.68 TO STA. 15+50+/--L- STA. 17+60+/- TO STA. 18+60.52

MAINTAIN ACCESS TO EXISTING DRIVEWAYS AT ALL TIMES.

STEP 5. USING RSD 1101.02 (SHT. 1 OF 9), REMOVE EXISTING SR 1598 BRIDGE AND APPROACHES (SEE TCP-5).

COMPLETE PROPOSED -L- SLOPES AND DRIVEWAYS ACCORDING TO THE CONSTRUCTION PLANS (SEE TCP-5).

WORK IN A CONTINUOUS MANNER TO COMPLETE THE FOLLOWING WORK OF PHASE II, STEP 6 IN ONE WORKDAY:

STEP 6. USING RSD 1101.02 (SHT. 1 OF 9), PLACE FINAL PAVEMENT MARKINGS IN THE FINAL TWO-LANE, TWO-WAY PATTERN.

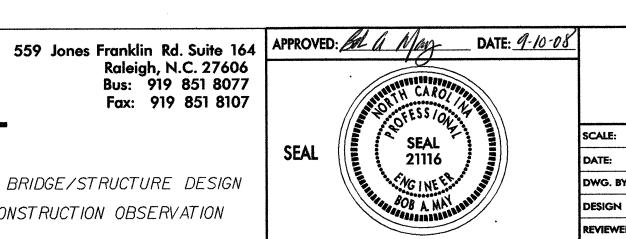
OPEN SR 1598 TO THE FINAL TRAFFIC PATTERN.

STEP 7. REMOVE ALL TRAFFIC CONTROL DEVICES FROM THE PROJECT.



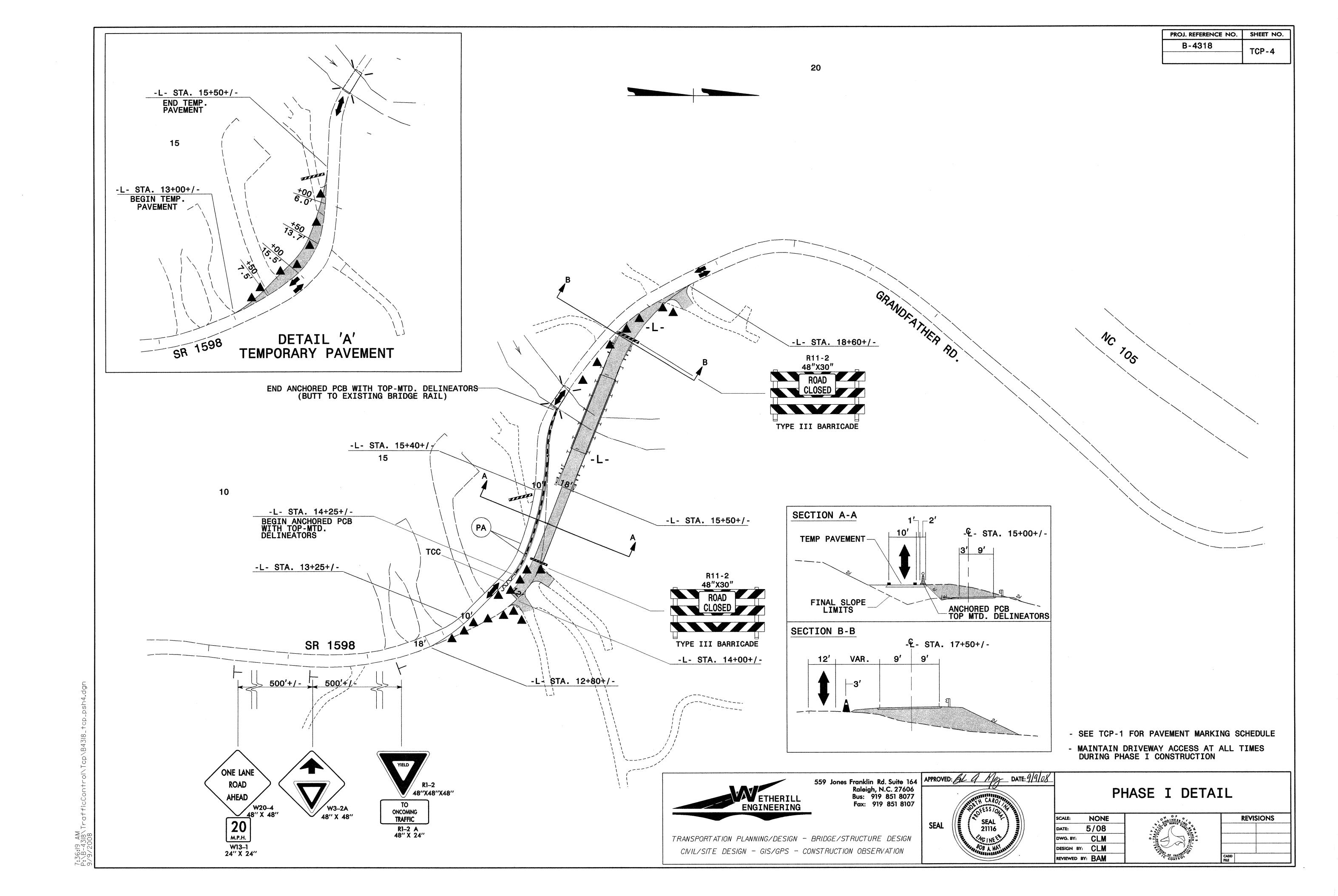
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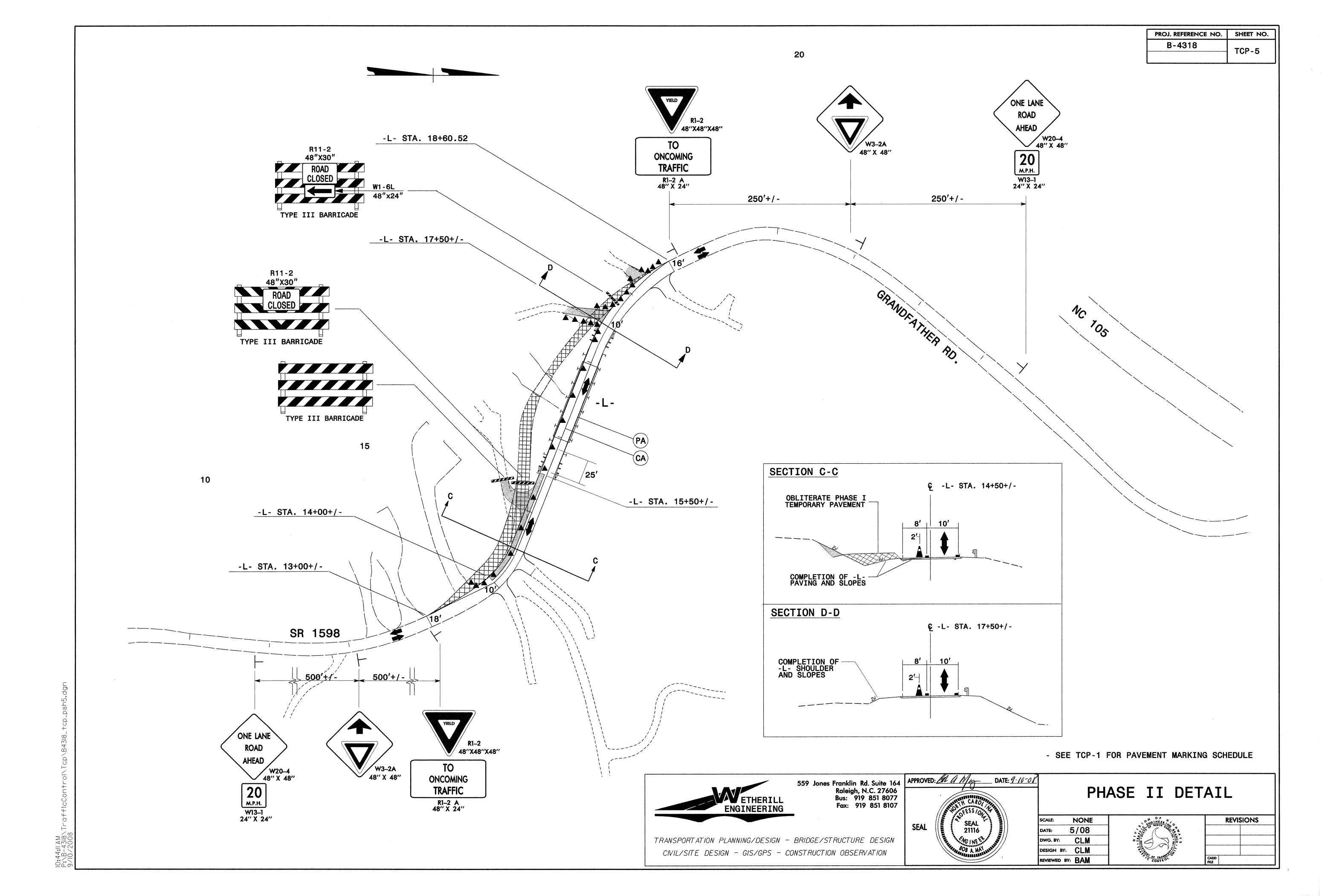
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



# PROJECT PHASING

NONE	ONGINEER 4	REVISIONS
5/08	A LAND BORTH CAROL ALL	
Y: CLM	The state of the s	
BY: CLM		
ED BY: BAM	CONTROL	CADD





PROJ. REFERENCE NO. SHEET NO. B-4318 TCP-6

**HIGHWAYS** 

0F

DED SIGNS

DRAWIN UNDIV WARNIN

DR

IGH

**TRANSPORTATION** 

OF.

DEPT

CAROL

NORTH

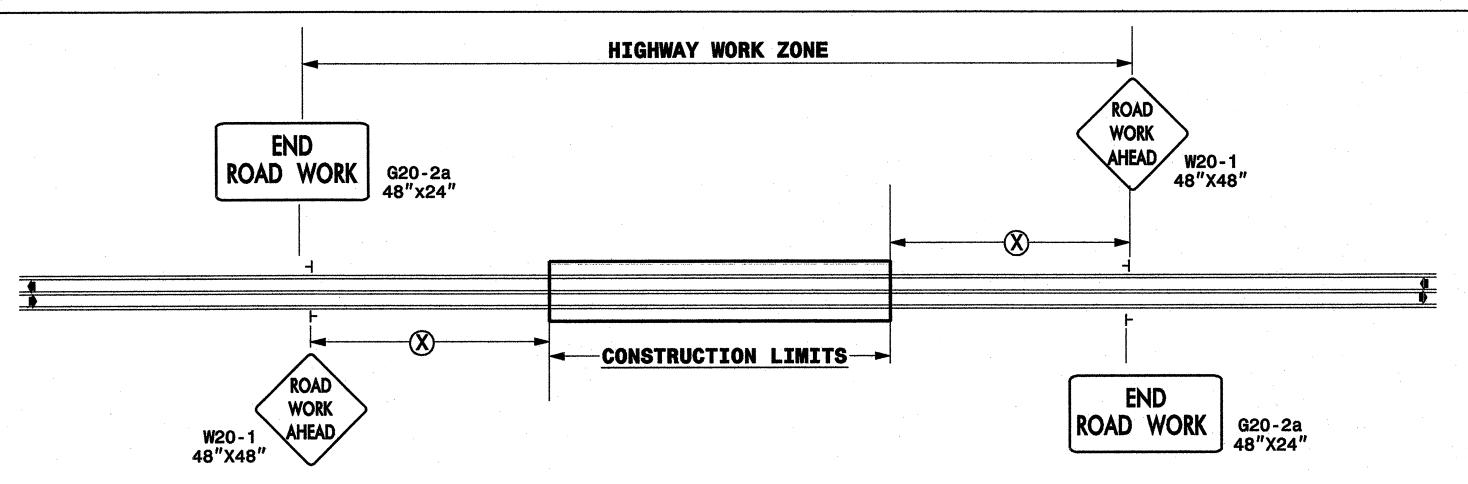
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RECOMMENDED MINIMUM SIGN SPACING POSTED SPEED LIMIT  $\otimes$ (M.P.H.) ≤ 50 500<sup>'</sup>

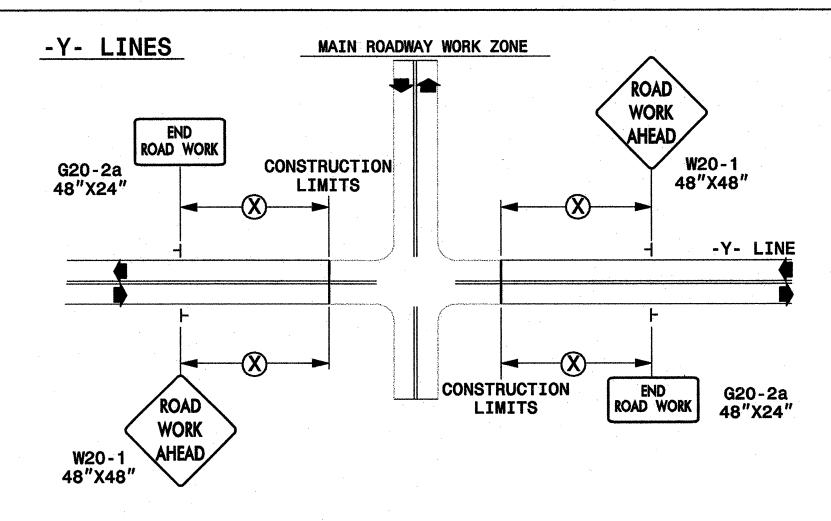
1000'

≥ 55

TWO-WAY UNDIVIDED \*\* (L-LINES)



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



### **GENERAL NOTES**

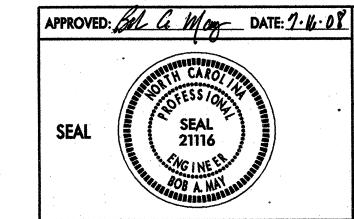
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS,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

### LEGEND

├ STATIONARY SIGN

■ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1



DETAIL	DRAWIN	G FOR	TWO-W	ΙΑΥ
UNDIVIDE	ED AND	<b>URBAN</b>	FREE	NAYS
DVANCED	WORK ZO	NE WAR	NING	SIGNS

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BY:	
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OF HINEER HAVE	REVISIONS		
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	10-98	03/0	
	01/01	11/0	
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