

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



STATE PROJECT REFERENCE NO. R-2809A	SHEET NO. TCP-1
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**PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
WAKE COUNTY**

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:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD 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
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1170.01	PORTABLE CONCRETE BARRIER
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
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)

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TEMPORARY PAVEMENT MARKING SCHEDULE				
SYMBOL	DESCRIPTION	TEMPORARY PAVEMENT MARKINGS REMOVABLE TAPE (100MM) PAINT (100MM) PAINT (200MM) PAINT (600MM)	PAY ITEM QUANTITY BREAKDOWN	TOTAL QUANTITY
RA	WHITE EDGELINE (1X)	PAINT (100MM)	99 M	TOTAL 99 M
PA	WHITE EDGELINE (2X)		12,652 M	
PC	3 M. WHITE SKIP (2X)		104 M	
PD	0.5 M. WHITE MINISKIP (2X)		127 M	
PE	WHITE SOLID LANE LINE (2X)		910 M	
PF	3 M. YELLOW SKIP (2X)		432 M	
PH	YELLOW SINGLE CENTER (2X)		1728 M	
PI	YELLOW DOUBLE CENTER (2X)	PAINT (200MM)	13,148 M	TOTAL 29,101 M
PV	YELLOW DIAGONAL (2X)	PAINT (600MM)	108 M	TOTAL 108 M
P4	WHITE STOP BAR (2X)		150 M	TOTAL 150 M
QI	ALPHANUMERIC CHARACTER (2X)	PAVEMENT MARKING CHARACTERS (PAINT)	16 EA	TOTAL 16 EA
		PAVEMENT MARKING SYMBOLS (PAINT)		
QA	LEFT TURN ARROW (2X)		66 EA	
QB	RIGHT TURN ARROW (2X)		26 EA	
QC	STRAIGHT ARROW (2X)		18 EA	
QE	COMBO. STRAIGHT/RIGHT (2X)		16 EA	TOTAL 126 EA
		MARKERS		
MH	YELLOW & YELLOW	TEMPORARY RAISED PAVEMENT MARKERS	358 EA	
MI	CRYSTAL & RED		100 EA	TOTAL 458 EA

NOTE: FOR EACH PAINT PAVEMENT MARKING ITEM, 1X IMPLIES A SINGLE APPLICATION, 2X IMPLIES TWO APPLICATIONS, AND 3X IMPLIES THREE APPLICATIONS.

R-2809A

TIP PROJECT:

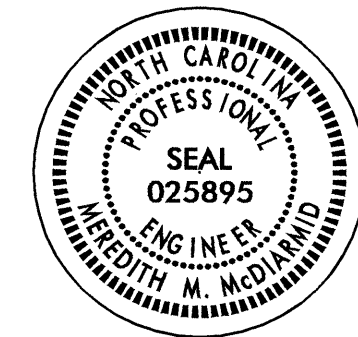
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LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
 - TYPE II BARRICADE
 - TYPE III BARRICADE
 - CONE
 - DRUM
 - 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

APPROVED: *Meredith McDiarmid*
DATE: 8/14/07

PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT



SEAL

- J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
- M. M. McDIARMID, P.E. TRAFFIC CONTROL PROJECT ENGINEER
- C. L. LANFORD, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
- S. B. COATS TRAFFIC CONTROL DESIGN ENGINEER



PROJECT NOTES

GENERAL NOTES

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.

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.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 98 (-L-)	7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M. MON-FRI
FALLS OF NEUSE RD. (-Y2-)	7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M. MON-FRI
THOMPSON MILL RD. (-Y3-, -Y3A-, -Y4-)	7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M. MON-FRI

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

ROAD NAME
NC 98 (-L-)
FALLS OF NEUSE RD. (-Y2-)
THOMPSON MILL RD. (-Y3-, -Y3A-, -Y4-)

HOLIDAY

- FOR UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S DAY, BETWEEN THE HOURS OF 4:00 P.M. DECEMBER 31ST AND 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY, THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 4:00 P.M. THURSDAY AND 9:00 A.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 4:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY, THEN BETWEEN THE HOURS OF 4:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY AND 9:00 A.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 4:00 P.M. TUESDAY TO 9:00 A.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 4:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

C) DO NOT STOP TRAFFIC OR CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 98 (-L-)	7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M. MON-FRI
FALLS OF NEUSE RD. (-Y2-)	7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M. MON-FRI
THOMPSON MILL RD. (-Y3-, -Y3A-, -Y4-)	7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M. MON-FRI

D) DO NOT STOP TRAFFIC FOR MORE THAN 30 MINUTES AS FOLLOWS:

ROAD NAME	OPERATION
NC 98 (-L-)	TRAFFIC SHIFT
FALLS OF NEUSE RD. (-Y2-)	TRAFFIC SHIFT

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 12m OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101D04 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 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.
- I) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.
- J) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 5m OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 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.
- N) PROVIDE PERMANENT SIGNING.
- O) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- P) THE CONTRACTOR WILL COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- R) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) 150m IN ADVANCE OF THE UNEVEN AREA.
- S) INSTALL BLACK ON ORANGE "BUMP" SIGNS (W8-1) 150m IN ADVANCE OF THE UNEVEN AREA.

TRAFFIC BARRIER

- T) INSTALL PORTABLE CONCRETE BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE PORTABLE CONCRETE 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.
- ONCE PORTABLE CONCRETE BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE PORTABLE CONCRETE BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET PORTABLE CONCRETE BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.
- U) PROTECT THE APPROACH END OF 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 PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

POSTED SPEED LIMIT	MINIMUM OFFSET
LESS THAN 80 Km/h	6m
80 Km/h or HIGHER	9m

INSTALL PORTABLE CONCRETE BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE PORTABLE CONCRETE BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS EQUAL IN METER TO 2/3rds THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP CLOSED THE SECTION OF THE ROADWAY UNTIL THE BARRIER CAN BE PLACED OR AFTER BARRIER IS REMOVED.

TRAFFIC CONTROL DEVICES

- V) WHEN USING ROADWAY STANDARD NO. 1101.02, CONES MAY BE USED IN LIEU OF DRUMS ON NC 98.
- W) SPACE CHANNELIZING DEVICES IN WORK AREAS EQUAL IN METERS TO 2/3rds THE POSTED SPEED LIMIT (MPH), EXCEPT 3m ON-CENTER IN RADIUS, AND 1m OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- X) 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.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
NC 98 (-L-)	THERMO	PERMANENT RAISED
NC 98 BUS. (-Y2-)	THERMO	PERMANENT RAISED
THOMPSON MILL RD. (-Y3-, -Y3A-, -Y4-)	THERMO	PERMANENT RAISED
-Y1-	THERMO	PERMANENT RAISED
FALLS OF NEUSE RD. (-Y5-)	THERMO	PERMANENT RAISED
SR 1967 (-Y3B-)	THERMO	PERMANENT RAISED
FAWN DR. (-Y1A-)	THERMO	N/A

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

ROAD NAME	MARKING	MARKER
NC 98 (-L-)	PAINT	TEMPORARY RAISED
NC 98 BUS. (-Y2-)	PAINT	TEMPORARY RAISED
-Y1-	PAINT	TEMPORARY RAISED
FAWN DR. (-Y1A-)	PAINT	N/A
THOMPSON MILL RD. (-Y3-)	PAINT	N/A
FALLS OF NEUSE RD. (-Y5-)	PAINT	TEMPORARY RAISED

- AA) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- BB) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.

- CC) 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

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

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

MISCELLANEOUS

- FF) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS 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) 150m AND 300m RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

APPROVED: DATE: 9/25/07

SEAL

PROJECT NOTES

SCALE: NONE		REVISIONS
DATE: 08-03-07		
DWG. BY: SBC		
DESIGN BY: SBC		
REVIEWED BY: MMM		

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PHASING



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-3

PHASE I

- STEP 1. INSTALL ALL WORK ZONE ADVANCE WARNING SIGNS ON NC 98, SR 2000 (FALLS OF NEUSE RD.), SR 1923 (THOMPSON MILL RD.), SR 1999 (HAYEBURY CT.), SR 1967 (OLD NC 98), SR 1976 (FAWN DR.), QUATREFOIL ST., JONES WYND, FLEMMING HOUSE ST., AND GARDEN HILL DR.. IF WORK IS NOT PURSUED WITHIN THREE DAYS OF SIGN INSTALLATION, THE SIGNS SHALL BE COVERED OR REMOVED IN A METHOD APPROVED BY THE ENGINEER ACCORDING TO STANDARD SPECS SECTION 1110. ADVANCE WARNING SIGNS SHALL BE INSTALLED WHEN CONSTRUCTION IS WITHIN 31 METERS OF EXISTING TRAVEL LANE, (SEE TCP-35).
- PERFORM STEP 2 AND STEP 3 IN A CONTINUOUS OPERATION:
- STEP 2. USING FLAGGERS, PLACE TEMPORARY (PAINT) PAVEMENT MARKINGS AND TEMPORARY MARKERS FROM STA. 6+65+/- -L- (NC 98) TO STA. 13+49+/- -L- (NC 98), (SEE TCP-5).
- STEP 3. USING FLAGGERS, PLACE PORTABLE CONCRETE BARRIER FROM STA. 7+69+/- -L- (NC 98) TO STA. 11+03+/- -L- (NC 98) AND FROM STA. 11+39+/- -L- (NC 98) TO STA. 13+18+/- -L- (NC 98), (SEE TCP-5). PLACE DRUMS AS SHOWN ON TCP-5, TCP-6, AND TCP-7.
- USING FLAGGERS, PLACE TEMPORARY (PAINT) PAVEMENT MARKINGS, MARKERS, AND BARRICADES AS SHOWN (SEE TCP-6):
- 32+49+/- -L- TO STA. 32+84+/- -L-
- INSTALL TEMPORARY SIGNALS (SEE TCP-6).
- STEP 4. AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING UP TO BASE COURSE, INCLUDING CURB AND GUTTER (SEE TCP-4, TCP-5, AND TCP-7):
- STA. 7+64+/- -L- TRANS TO STA. 11+00+/- -L- TRANS
- STA. 7+64+/- -L- (WBL) TO STA. 11+15+/- -L- (WBL)
- STA. 11+28+/- -L- (WBL) TO STA. 13+10+/- -L- (WBL)
- STA. 14+80+/- -L- (WBL) TO STA. 20+00+/- -L- (WBL)
- STA. 14+20+/- -L- (EBL) TO STA. 20+00+/- -L- (EBL)
- STA. 10+20+/- -Y1- TO STA. 13+40+/- -Y1-
- STA. 16+70+/- -Y1- TO STA. 18+40+/- -Y1-
- STA. 25+70+/- -Y2- TO STA. 27+20+/- -Y2-
- STA. 27+80+/- -Y2- TO STA. 28+15+/- -Y2-
- AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE TCP-4, TCP-5, TCP-6, AND TCP-7):
- STA. 20+50+/- -L- TO STA. 31+90+/- -L-
- STA. 12+80+/- -Y2- TO STA. 14+30+/- -Y2-
- STA. 14+70+/- -Y2- TO STA. 21+27+/- -Y2-
- STA. 10+14+/- -Y3B- TO STA. 10+60+/- -Y3B-
- STA. 10+00+/- -Y4- TO STA. 10+10+/- -Y4-
- STA. 11+20+/- -Y5- TO STA. 11+90+/- -Y5-
- STA. 10+13+/- -Y9- TO STA. 10+80+/- -Y9-
- USING FLAGGERS, CONSTRUCT THE FOLLOWING UP TO EXISTING EDGE OF PAVEMENT ELEVATIONS (SEE TCP-4, TCP-6, AND TCP-7):
- STA. 13+87+/- -L- (EBL) TO STA. 14+20+/- -L- (EBL)
- STA. 10+03+/- -Y1- TO STA. 10+20+/- -Y1-
- STA. 13+40+/- -Y1- TO STA. 14+15+/- -Y1-
- STA. 16+23+/- -Y1- TO STA. 16+70+/- -Y1-
- STA. 18+40+/- -Y1- TO STA. 18+47+/- -Y1-
- STA. 10+07+/- -Y1A- TO STA. 10+16+/- -Y1A-
- STA. 10+20+/- -Y2- TO STA. 12+80+/- -Y2-
- STA. 14+30+/- -Y2- TO STA. 14+49+/- -Y2-
- STA. 14+64+/- -Y2- TO STA. 14+70+/- -Y2-
- STA. 27+20+/- -Y2- TO STA. 27+50+/- -Y2-
- STA. 27+70+/- -Y2- TO STA. 27+80+/- -Y2-
- STA. 28+15+/- -Y2- TO STA. 29+64+/- -Y2-
- STA. 10+60+/- -Y3B- TO STA. 11+28+/- -Y3B-
- STA. 10+10+/- -Y4- TO STA. 10+32+/- -Y4-
- STA. 10+91+/- -Y5- TO STA. 11+20+/- -Y5-
- STA. 11+90+/- -Y5- TO STA. 12+70+/- -Y5-
- USING FLAGGERS, CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE TCP-4, TCP-5, AND TCP-7):
- STA. 11+15+/- -L- (WBL) TO STA. 11+28+/- -L- (WBL)
- STA. 10+11+/- -Y8- TO STA. 10+50+/- -Y8-
- MAINTAIN ACCESS TO HAYEBURY CT. (-Y8-) AS DIRECTED BY THE ENGINEER.

- STEP 5. USING FLAGGERS, WIDEN THE FOLLOWING UP TO EXISTING EDGE OF PAVEMENT ELEVATIONS (SEE TCP-4 AND TCP-7) AS FOLLOWS:
- STA. 11+00+/- -Y3- TO STA. 11+80+/- -Y3-
- STEP 6. USING REPLACEMENT DETAIL FOR RSD NO. 1104.01 (SEE TCP-36) AND FLAGGERS, CONSTRUCT PAVED SHOULDER AND INSTALL GUARDRAIL AS FOLLOWS:
- STA. 7+40+/- -L- (EBL) TO STA. 13+62+/- -L- (EBL)

PHASE II

- STEP 1. INSTALL ALL OFFSITE DETOUR SIGNING AS SHOWN ON TCP-9. IF WORK IS NOT PURSUED WITHIN THREE DAYS OF SIGN INSTALLATION, THE SIGNS SHALL BE COVERED OR REMOVED IN A METHOD APPROVED BY THE ENGINEER ACCORDING TO STANDARD SPECS SECTION 1110.
- STEP 2. USING SIGNS AND TRAFFIC CONTROL DEVICES AS SHOWN ON TCP-9, CLOSE SR 1967 (OLD NC 98) FROM THE INTERSECTION OF SR 1967 (OLD NC 98) AND SR 1923 (THOMPSON MILL RD.) TO THE INTERSECTION OF SR 1967 (OLD NC 98) AND FLEMMING HOUSE ST., CLOSE JONES WYND AT THE INTERSECTION OF SR 1967 (OLD NC 98) AND JONES WYND.
- STEP 3. AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE TCP-10):
- STA. 14+20+/- -L- (EBL) TO STA. 20+52+/- -L- (EBL)
- STA. 14+80+/- -L- (WBL) TO STA. 20+52+/- -L- (WBL)
- STA. 10+20+/- -Y1- TO STA. 13+40+/- -Y1-
- STA. 16+70+/- -Y1- TO STA. 18+40+/- -Y1-
- STA. 21+27+/- -Y2- TO STA. 27+20+/- -Y2-
- STA. 10+08+/- -Y6- TO STA. 10+26+/- -Y6-
- OBLITERATE PAVEMENT AS SHOWN ON TCP-10.

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE II, STEPS 4 THRU 7 FROM 6:00 P.M. FRIDAY THRU 7:00 A.M. MONDAY. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES).

- STEP 4. USING SIGNS AND TRAFFIC CONTROL DEVICES AS SHOWN ON TCP-17, TEMPORARILY CLOSE GARDEN HILL DR. FROM THE INTERSECTION OF SR 2000 (FALLS OF NEUSE RD.) AND GARDEN HILL DR. AND THE INTERSECTION OF -Y2- (NC 98 BUS.) AND GARDEN HILL DR..
- AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND DRAINAGE (SEE TCP-17):
- STA. 10+74+/- -Y5- TO STA. 11+10+/- -Y5-
- INSTALL ALL DETOUR SIGNING AS SHOWN ON TCP-17.
- STEP 5. USING FLAGGERS, PAVE/WEDGE THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE TCP-17):
- STA. 10+20+/- -Y2- TO STA. 12+80+/- -Y2-
- STA. 14+30+/- -Y2- TO STA. 14+70+/- -Y2-
- STA. 10+40+/- -Y5- TO STA. 11+20+/- -Y5-
- STA. 11+90+/- -Y5- TO STA. 12+70+/- -Y5-
- REOPEN GARDEN HILL DR. AT THE INTERSECTION OF GARDEN HILL DR. AND -Y2- (NC 98 BUS.).
- STEP 6. USING FLAGGERS, PLACE TEMPORARY (PAINT) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE TCP-18 AND TCP-19):
- STA. 10+20+/- -Y2- TO STA. 14+70+/- -Y2-
- STA. 10+40+/- -Y5- TO STA. 12+70+/- -Y5-
- STEP 7. INSTALL PERMANENT SIGNING AND TRAFFIC CONTROL DEVICES ON -Y5- AND OBLITERATE PAVEMENT AS SHOWN ON TCP-17.

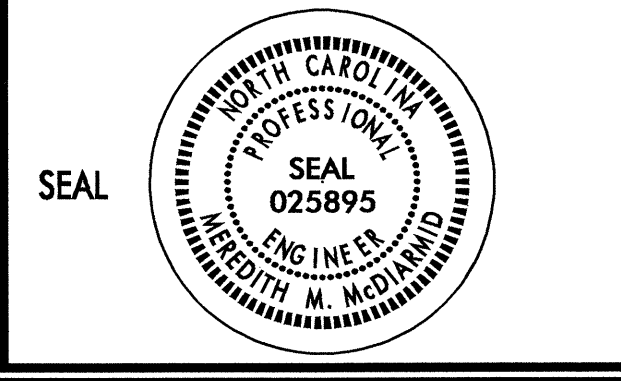
THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE II, STEPS 12 THRU 13 IN 21 CONSECUTIVE CALENDER DAYS. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES).

- STEP 8. AWAY FROM TRAFFIC, PAVE THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE TCP-8 AND TCP-12):
- STA. 20+14+/- -L- TO STA. 32+80+/- -L-
- STA. 18+03+/- -Y1- TO STA. 18+40+/- -Y1-
- STA. 14+70+/- -Y2- TO STA. 27+20+/- -Y2-
- STA. 10+08+/- -Y6- TO STA. 10+26+/- -Y6-
- STA. 10+13+/- -Y9- TO STA. 10+80+/- -Y9-
- USING RSD 1101.02 (SHTS 1 AND 2 OF 7), PAVE THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE TCP-18 AND TCP-19):
- STA. 10+20+/- -Y2- TO STA. 14+70+/- -Y2-
- STA. 10+40+/- -Y5- TO STA. 12+70+/- -Y5-
- STEP 9. USING RSD 1101.02 (SHTS 1 AND 2 OF 7), PLACE FINAL (THERMO) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE PM-8 AND PM-9):
- STA. 10+20+/- -Y2- TO STA. 14+70+/- -Y2-
- STA. 10+40+/- -Y5- TO STA. 12+70+/- -Y5-
- AWAY FROM TRAFFIC, PLACE FINAL (THERMO) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE PM-5 THRU PM-7 AND PM-9 THRU PM-12):
- STA. 20+56+/- -L- TO STA. 32+84+/- -L-
- STA. 14+70+/- -Y2- TO STA. 27+20+/- -Y2-
- STA. 10+08+/- -Y6- TO STA. 10+26+/- -Y6-
- STA. 10+13+/- -Y9- TO STA. 10+80+/- -Y9-
- BEGIN INSTALLATION OF SIGNAL POLES AND CONTROLLERS AT THE INTERSECTION OF NC 98 BYPASS (-L-) AND NC 98 BUS. (-Y2-).
- STEP 10. AWAY FROM TRAFFIC, PLACE TEMPORARY (PAINT) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE TCP-13 AND TCP-14):
- STA. 14+20+/- -L- (EBL) TO STA. 20+14+/- -L- (EBL)
- STA. 21+36+/- -Y2- TO STA. 21+99+/- -Y2-
- STEP 11. AWAY FROM TRAFFIC, PLACE TRAFFIC CONTROL DEVICES AS FOLLOWS (SEE TCP-13 THRU TCP-16):
- STA. 17+20+/- -L- (EBL) TO STA. 20+19+/- -L- (EBL)
- STA. 18+60+/- -Y2- TO STA. 23+80+/- -Y2-

- STEP 12. INSTALL ALL OFFSITE DETOUR SIGNING AS SHOWN ON TCP-11. USING SIGNS AND TRAFFIC CONTROL DEVICES AS SHOWN ON TCP-11, CLOSE SR 1967 (OLD NC 98) FROM THE INTERSECTION OF SR 1967 (OLD NC 98) AND FLEMMING HOUSE ST. TO THE INTERSECTION OF SR 1967 (OLD NC 98) AND NC 98 (DURHAM RD.), CLOSE FLEMMING HOUSE ST. AT THE INTERSECTION OF SR 1967 (OLD NC 98) AND FLEMMING HOUSE ST. MODIFY EXISTING SIGNALS AT THE INTERSECTION OF FAWN DR. AND NC 98 (DURHAM RD.).
- STEP 13. AWAY FROM TRAFFIC, CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND DRAINAGE (SEE TCP-12):
- STA. 18+40+/- -Y1- TO STA. 18+80+/- -Y1-
- STA. 27+20+/- -Y2- TO STA. 28+15+/- -Y2-
- OBLITERATE PAVEMENT AS SHOWN ON TCP-12.
- MAINTAIN ACCESS TO DRIVE AT STA. 27+76 -Y2- AS DIRECTED BY ENGINEER.

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APPROVED: *MM* DATE: 12/3/07



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SCALE: NONE		REVISIONS
DATE: 08-03-07		
DESIGN BY: SBC		
REVIEWED BY: MMM		

PHASING



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-3A

PHASE III

STEP 1. INSTALL ALL OFFSITE DETOUR SIGNING AS SHOWN ON TCP-24. IF WORK IS NOT PURSUED WITHIN THREE DAYS OF SIGN INSTALLATION, THE SIGNS SHALL BE COVERED OR REMOVED IN A METHOD APPROVED BY THE ENGINEER ACCORDING TO STANDARD SPECS SECTION 1110.
 ACTIVATE TEMPORARY SIGNALS AT THE INTERSECTION OF NC 98 BYPASS (-L-) AND NC 98 BUS. (Y2-),

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE III, STEPS 2 THRU 11 IN 120 CONSECUTIVE CALENDER DAYS. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES).

PERFORM STEPS 2 AND 3 AS ONE SIMULTANEOUS OPERATION:

STEP 2. REMOVE BARRICADES, DETOUR SIGNING FOR FLEMMING HOUSE ST. (-Y1-), JONES WYND (-Y6-), AND NC 98 BUS. (-Y2-) AND OPEN NC 98 BUS. (-Y2-), FLEMMING HOUSE ST. (-Y1-), AND JONES WYND (-Y6-).
 USING SIGNS AND TRAFFIC CONTROL DEVICES AS SHOWN ON TCP-24, CLOSE SR 1923 (THOMPSON MILL RD.) FROM THE INTERSECTION OF NC 98 (DURHAM RD.) AND SR 1923 (THOMPSON MILL RD.) TO THE INTERSECTION OF SR 1923 (THOMPSON MILL RD.) AND -Y1- AND OPEN -L- (EBL) TO A TEMPORARY 2-LANE, TWO-WAY TRAFFIC PATTERN. DEACTIVATE AND REMOVE EXISTING SIGNAL HEADS AT THE INTERSECTION OF FAWN DR. (-Y1A-) AND NC 98 (DURHAM RD.). BAG THE SIGNALS AT THE INTERSECTION OF THOMPSON MILL RD. (-Y3-) AND NC 98 (-L-).

STEP 3. USING FLAGGERS, WEDGE/PAVE UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:
 STA. 7+64+/- -L- (EBL) TO STA. 14+20+/- -L- (EBL)
 STA. 10+03+/- -Y1- TO STA. 10+20+/- -Y1-
 STA. 13+40+/- -Y1- TO STA. 16+70+/- -Y1-
 STA. 10+05+/- -Y1A- TO STA. 11+00+/- -Y1A-
 STA. 28+15+/- -Y2- TO STA. 30+70+/- -Y2-
 STA. 11+00+/- -Y3- TO STA. 11+80+/- -Y3-

PLACE TEMPORARY (PAINT) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE TCP-25 THRU TCP-29):
 STA. 7+64+/- -L- (EBL) TO STA. 14+20+/- -L- (EBL)
 STA. 10+06+/- -Y1- TO STA. 18+18+/- -Y1-
 STA. 10+09+/- -Y1A- TO STA. 11+00+/- -Y1A-
 STA. 28+07+/- -Y2- TO STA. 30+70+/- -Y2-
 STA. 11+27+/- -Y3- TO STA. 11+80+/- -Y3-

STEP 4. USING FLAGGERS, PLACE DRUMS AND PORTABLE CONCRETE BARRIER AS FOLLOWS (SEE TCP-26):
 STA. 7+64+/- -L- (EBL) TO STA. 15+00+/- -L- (EBL)
 MAINTAIN ACCESS TO FAWN DR. (-Y1A-) AS DIRECTED BY ENGINEER.
 OBLITERATE PAVEMENT AS SHOWN ON TCP-26 THRU TCP-28.

STEP 5. USING FLAGGERS, WEDGE/PAVE UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:
 STA. 10+03+/- -Y1- TO STA. 18+03+/- -Y1-
 STA. 18+40+/- -Y1- TO STA. 18+80+/- -Y1-
 STA. 10+05+/- -Y1A- TO STA. 11+00+/- -Y1A-
 STA. 27+20+/- -Y2- TO STA. 30+70+/- -Y2-
 STA. 11+00+/- -Y3- TO STA. 11+80+/- -Y3-
 STA. 10+20+/- -Y3B- TO STA. 11+60+/- -Y3B-
 STA. 10+04+/- -Y4- TO STA. 10+80+/- -Y4-
 USING FLAGGERS, CONSTRUCT UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:
 STA. 11+00+/- -Y3A- TO STA. 11+40+/- -Y3A-

PLACE FINAL (THERMO) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE PM-3, PM-10, PM-12, AND PM-13):
 STA. 10+08+/- -Y1- TO STA. 18+18+/- -Y1-
 STA. 10+08+/- -Y1A- TO STA. 11+00+/- -Y1A-
 STA. 27+20+/- -Y2- TO STA. 30+70+/- -Y2-
 STA. 11+00+/- -Y3- TO STA. 11+80+/- -Y3-
 STA. 11+00+/- -Y3A- TO STA. 11+18+/- -Y3A-
 STA. 10+18+/- -Y3B- TO STA. 11+60+/- -Y3B-
 STA. 10+08+/- -Y4- TO STA. 10+80+/- -Y4-

STEP 6. REMOVE TRAFFIC CONTROL DEVICES FROM -Y1-, -Y1A-, -Y3B-, AND -Y4-. REMOVE THOMPSON MILL RD. (SOUTH) DETOUR SIGNS AND OPEN -Y3B- (OLD NC 98) AND -Y4- (THOMPSON MILL RD. (SOUTH)).

STEP 7. AWAY FROM TRAFFIC, CONSTRUCT UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS (SEE TCP-26):
 STA. 11+28+/- -L- (WBL) TO STA. 20+14+/- -L- (WBL)
 STA. 10+16+/- -Y3- TO STA. 11+00+/- -Y3-

USING FLAGGERS, PAVE/WEDGE UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:
 STA. 7+64+/- -L- TRANS TO STA. 11+00+/- -L- TRANS
 STA. 7+64+/- -L- (WBL) TO STA. 11+28+/- -L- (WBL)
 STA. 10+11+/- -Y8- TO STA. 10+50+/- -Y8-

STEP 8. AWAY FROM TRAFFIC, PLACE FINAL (THERMO) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE PM-2 THRU PM-5):
 STA. 11+32+/- -L- (WBL) TO STA. 20+09+/- -L- (WBL)
 STA. 10+23+/- -Y3- TO STA. 11+00+/- -Y3-

USING FLAGGERS, PLACE FINAL (THERMO) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE PM-2):
 STA. 7+64+/- -L- TRANS TO STA. 11+00+/- -L- TRANS
 STA. 7+64+/- -L- (WBL) TO STA. 11+32+/- -L- (WBL)

PERFORM STEPS 9 THRU 11 IN A CONTINUOUS OPERATION:

STEP 9. USING FLAGGERS, REMOVE ALL DETOUR SIGNING, WARNING SIGNS, DRUMS, BARRICADES, AND PORTABLE CONCRETE BARRIER AS FOLLOWS:
 STA. 7+64+/- -L- (WBL) TO STA. 20+19+/- -L- (WBL)
 STA. 7+64+/- -L- (EBL) TO STA. 20+19+/- -L- (EBL)
 STA. 18+60+/- -Y2- TO STA. 21+36+/- -Y2- (LEFT TURN LANE)
 STA. 21+86+/- -Y2- TO STA. 23+20+/- -Y2- (RIGHT TURN LANE)
 THOMPSON MILL RD. -Y3-
 HAYEBURY CT. -Y8-
 VERMILLION CT.

ACTIVATE SIGNALS AT INTERSECTION OF THOMPSON MILL RD. (-Y3-) AND NC 98 BYPASS (-L-). MODIFY SIGNALS AT INTERSECTION OF NC 98 BYPASS (-L-) AND NC 98 BUS. (-Y2-).

OPEN THOMPSON MILL RD. (-Y3-) AND NC 98 BYPASS (WBL) FROM STA. 7+40+/- (-L-) TO STA. 20+19+/- (-L-).

STEP 10. USING FLAGGERS, PLACE THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:
 STA. 7+40+/- -L- (EBL) TO STA. 13+75+/- -L- (EBL)
 PLACE FINAL (THERMO) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE PM-2 AND PM-3):
 STA. 5+95+/- -L- (EBL) TO STA. 13+39+/- -L- (EBL)

STEP 11. USING FLAGGERS IN CONJUNCTION WITH TCP-30 THRU 32, PLACE TRAFFIC CONTROL DEVICES AS FOLLOWS:
 STA. 13+75+/- -L- (EBL) TO STA. 20+14+/- -L- (EBL)

PERFORM STEPS 12 AND 13 AS ONE SIMULTANEOUS OPERATION:

STEP 12. USING RSD 1101.02 (SHT 3 OF 7), PAVE THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:
 STA. 13+75+/- -L- (EBL) TO STA. 20+14+/- -L- (EBL)
 PLACE FINAL (THERMO) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE PM-3 THRU PM-5):
 STA. 13+64+/- -L- (EBL) TO STA. 20+15+/- -L- (EBL)

STEP 13. USING FLAGGERS, PLACE THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:
 STA. 33+26+/- -L- (WBL) TO STA. 35+00+/- -L- (WBL)
 PLACE FINAL (THERMO) PAVEMENT MARKINGS AND MARKERS AS FOLLOWS (SEE PM-7):
 STA. 33+27+/- -L- (WBL) TO STA. 35+00+/- -L- (WBL)
 STA. 10+20+/- -Y10- TO STA. 11+78+/- -Y10- (RETAIL DR.)

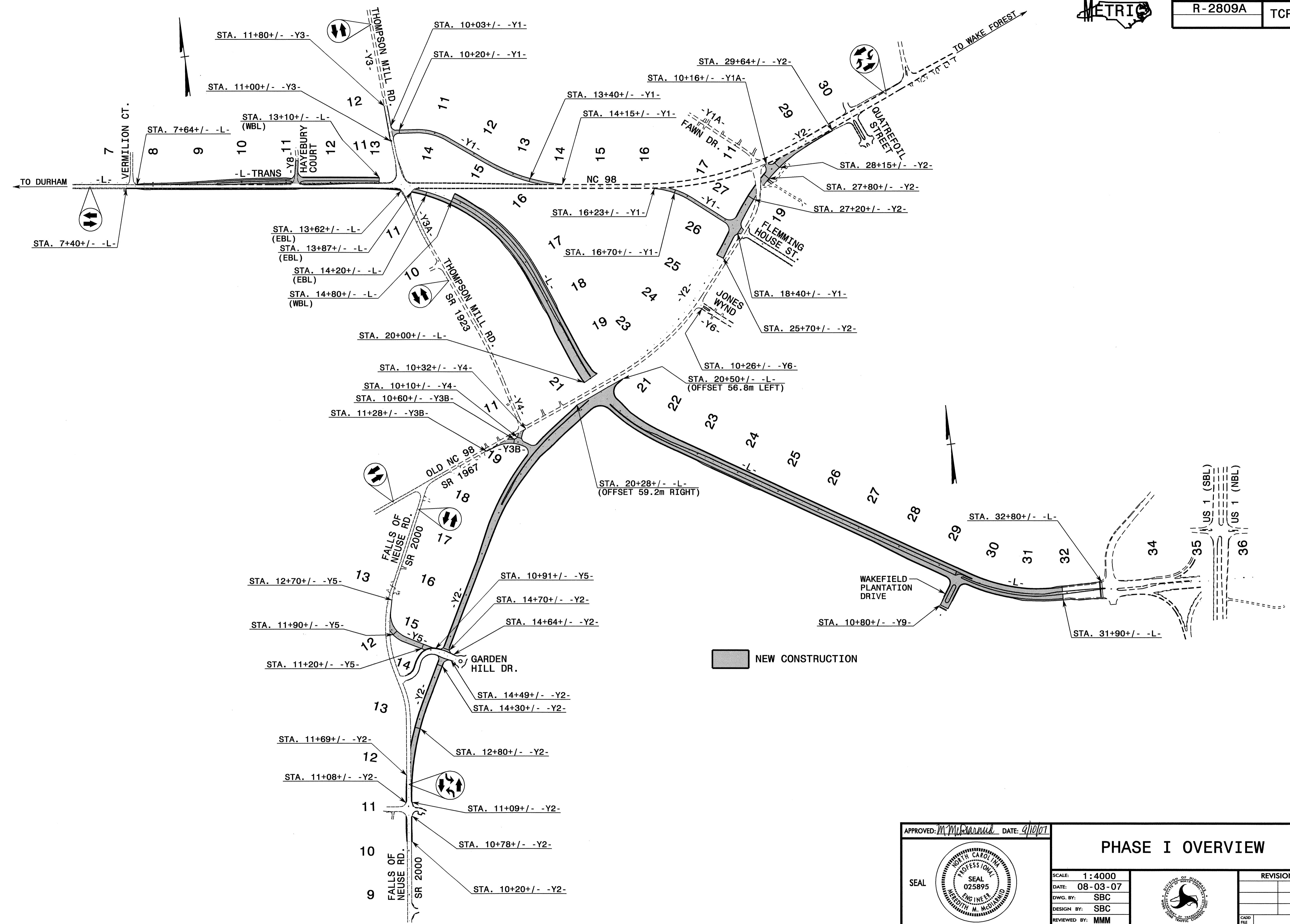
STEP 14. USING FLAGGERS, REMOVE ALL WARNING SIGNS, DRUMS, BARRICADES, AND TRAFFIC CONTROL DEVICES FROM NC 98 BUS. (-Y2-) AND NC 98 BYPASS (-L-), ACTIVATE FINAL SIGNALS AT NC 98 BYPASS (-L-)/NC 98 BUS. (-Y2-) AND NC 98 BYPASS (-L-)/RETAIL DR. (-Y10-), AND OPEN TO FINAL TRAFFIC PATTERN.

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PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-4

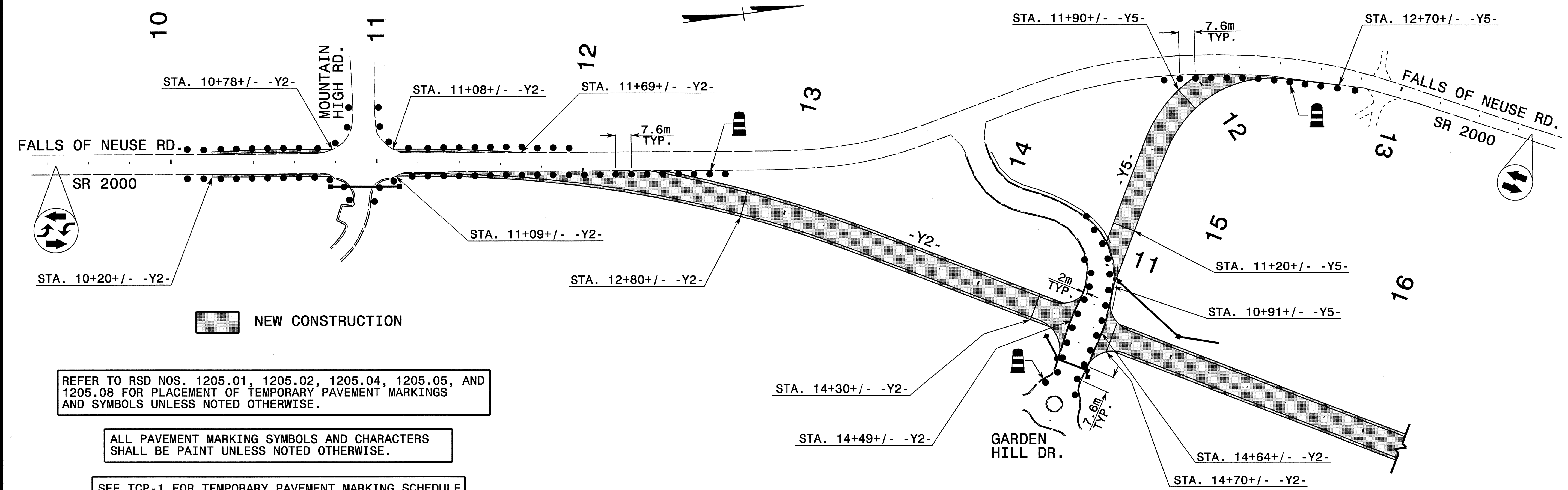


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APPROVED: *M. McFarland* DATE: 9/10/07

SEAL

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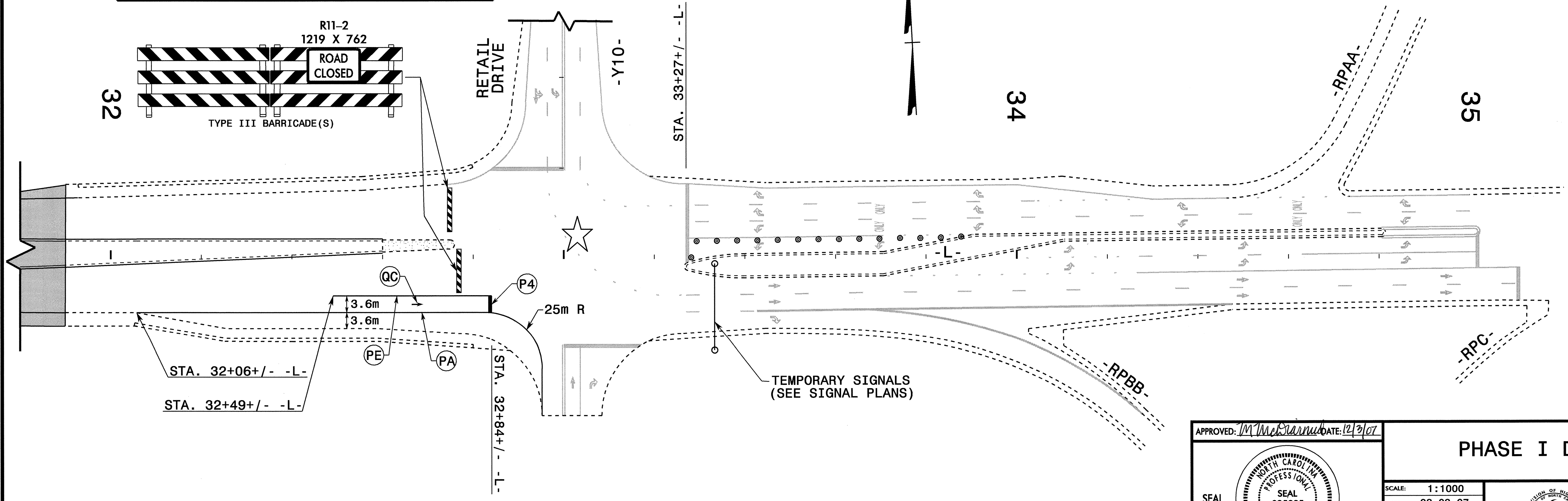
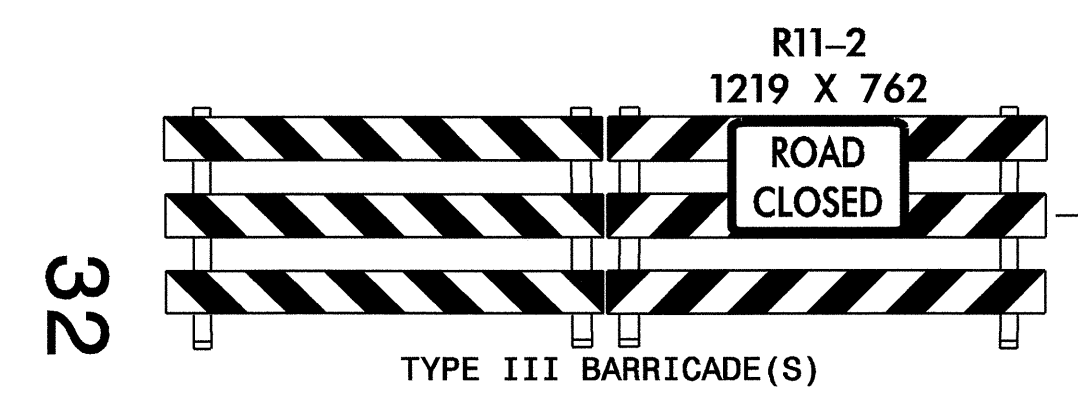


REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.05, AND 1205.08 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS AND SYMBOLS UNLESS NOTED OTHERWISE.

ALL PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

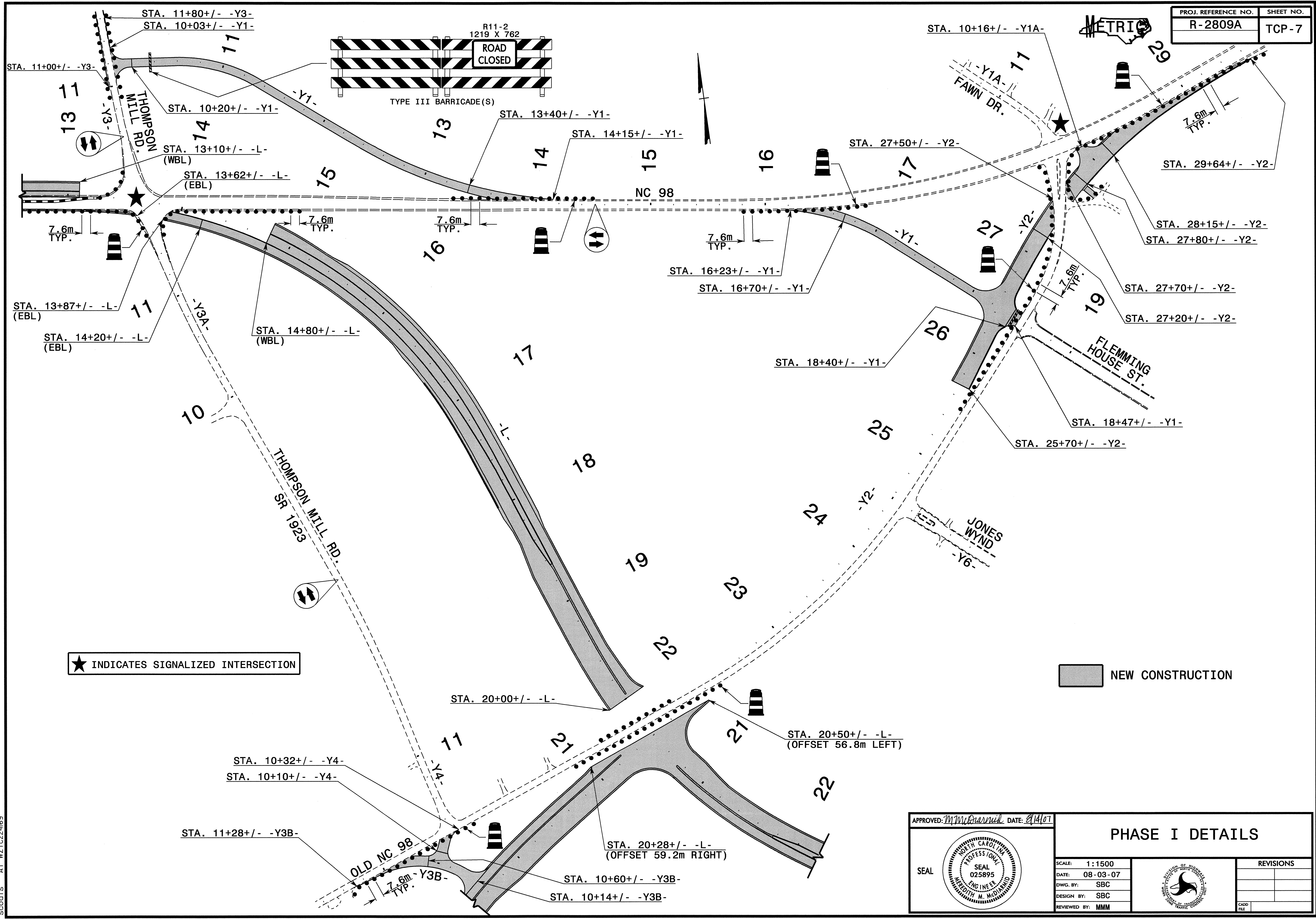
SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

☆ INDICATES EXISTING SIGNALIZED INTERSECTION



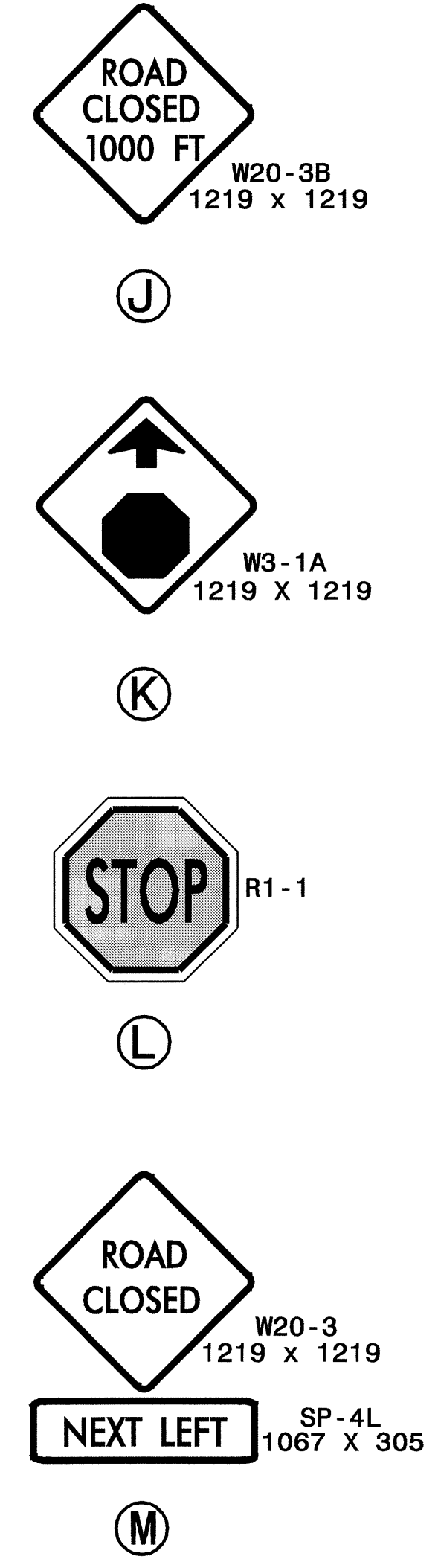
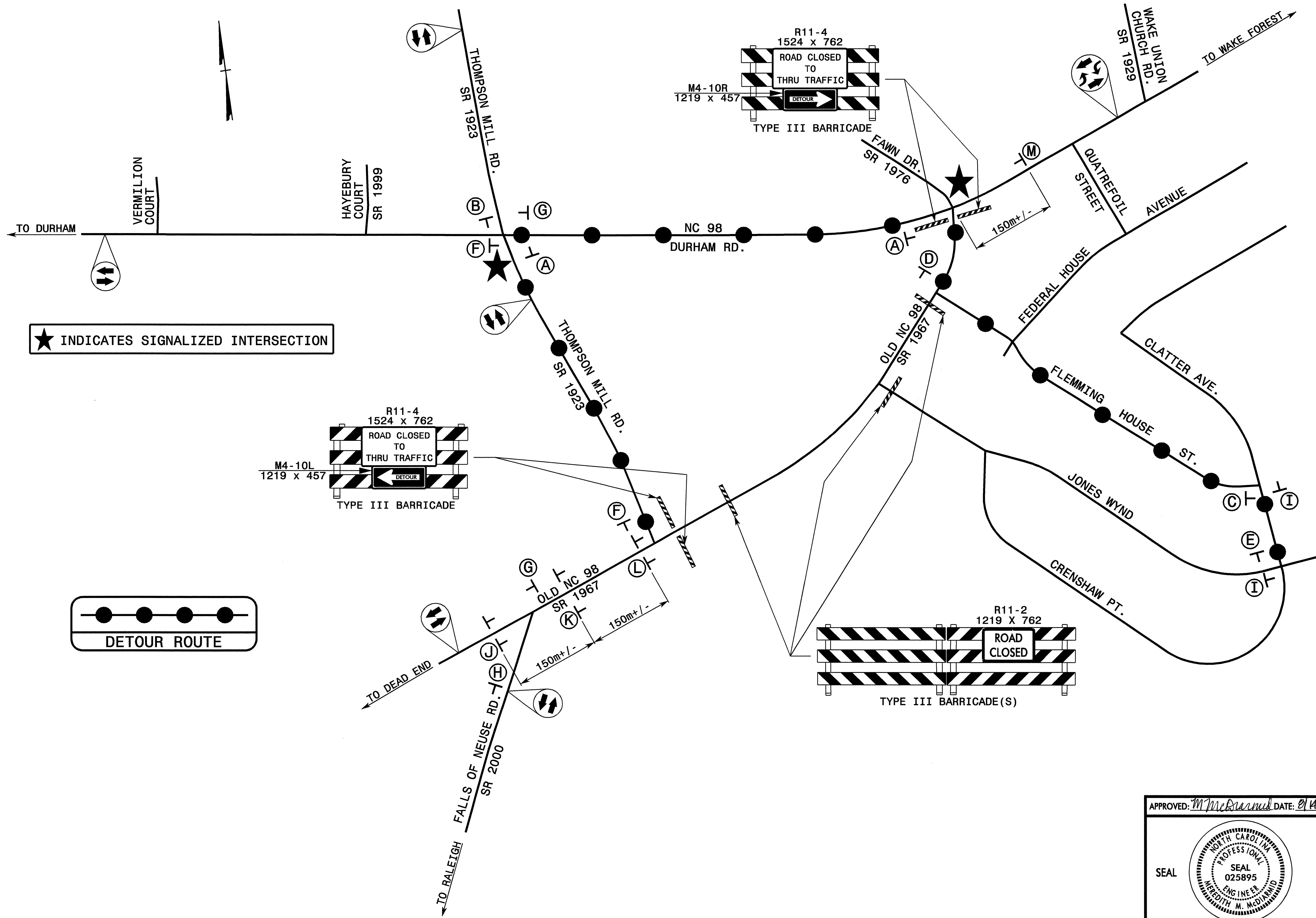
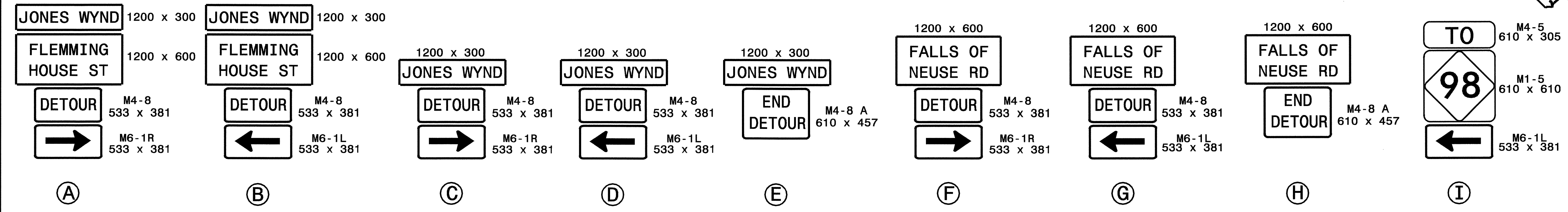
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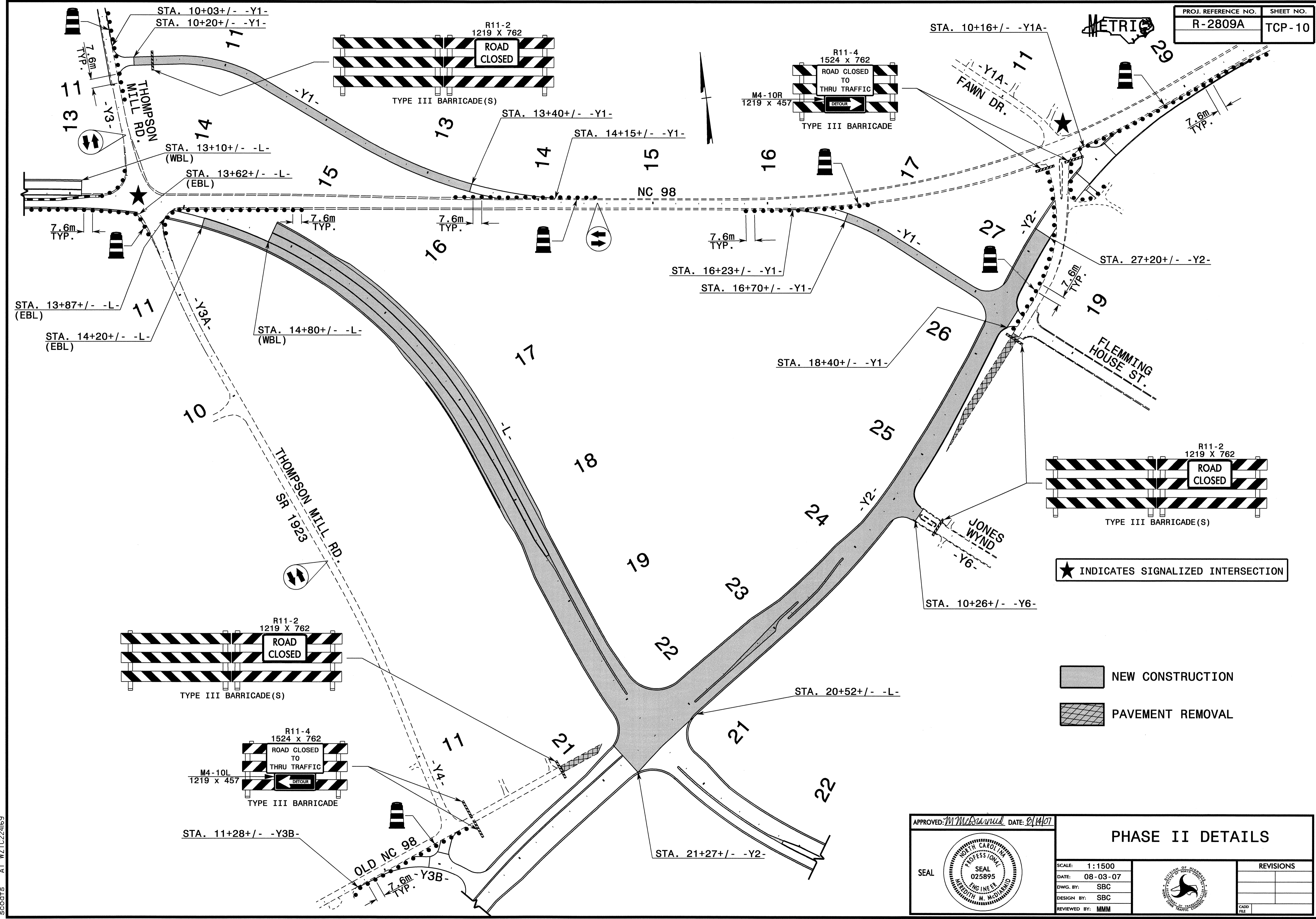
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APPROVED: *M. McDaniel* DATE: 01/11/07

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 025895
 WEDDIE M. MEDLEY

PHASE II-OFFSITE DETOUR
 JONES WYND, FLEMMING HOUSE ST.
 AND FALLS OF NEUSE RD.

SCALE: 1:4000		REVISIONS
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NEW CONSTRUCTION
PAVEMENT REMOVAL

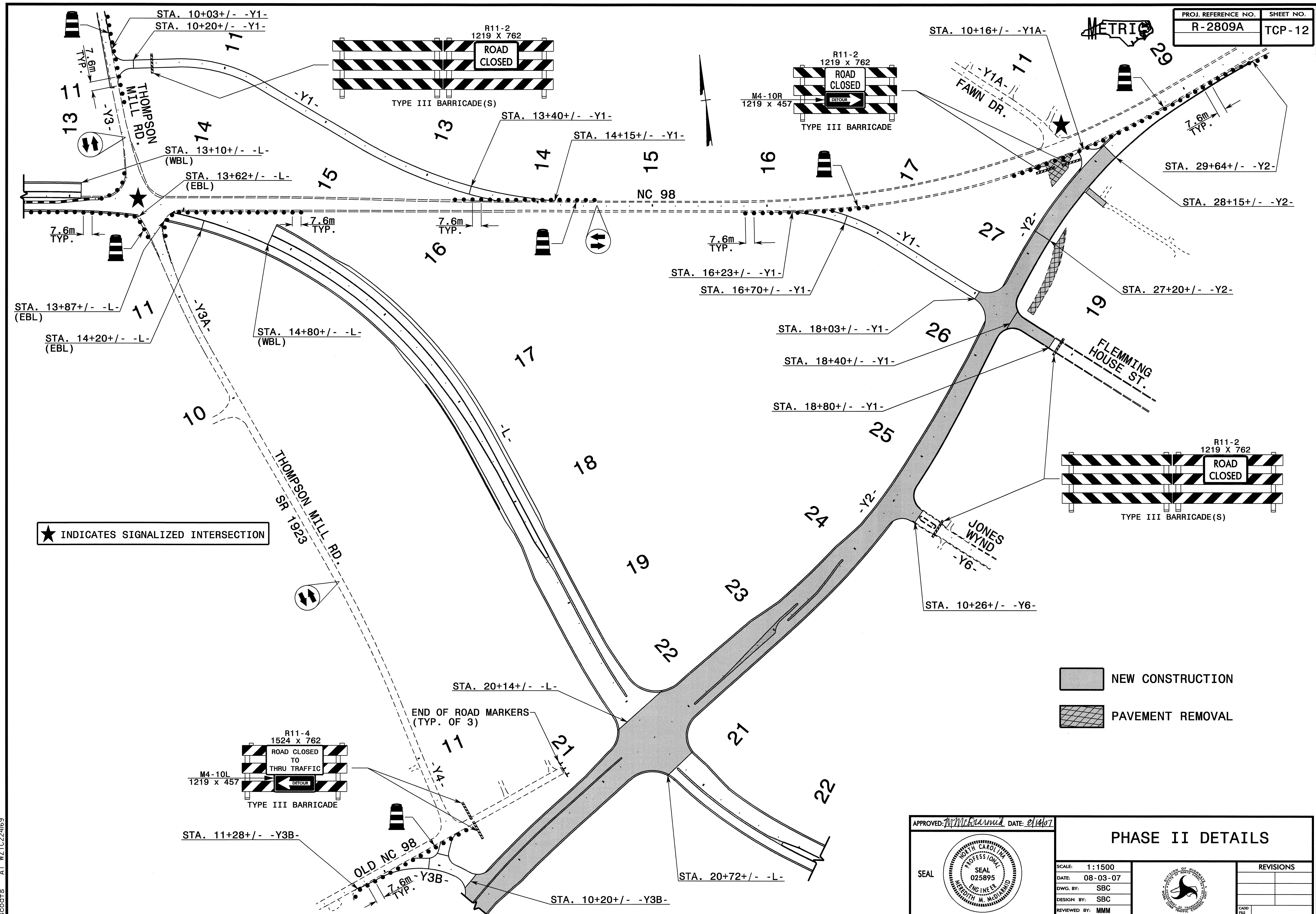
APPROVED: *M. M. M. M.* DATE: 9/14/07
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 025895
 WERDITH W. WOODRUFF

PHASE II DETAILS

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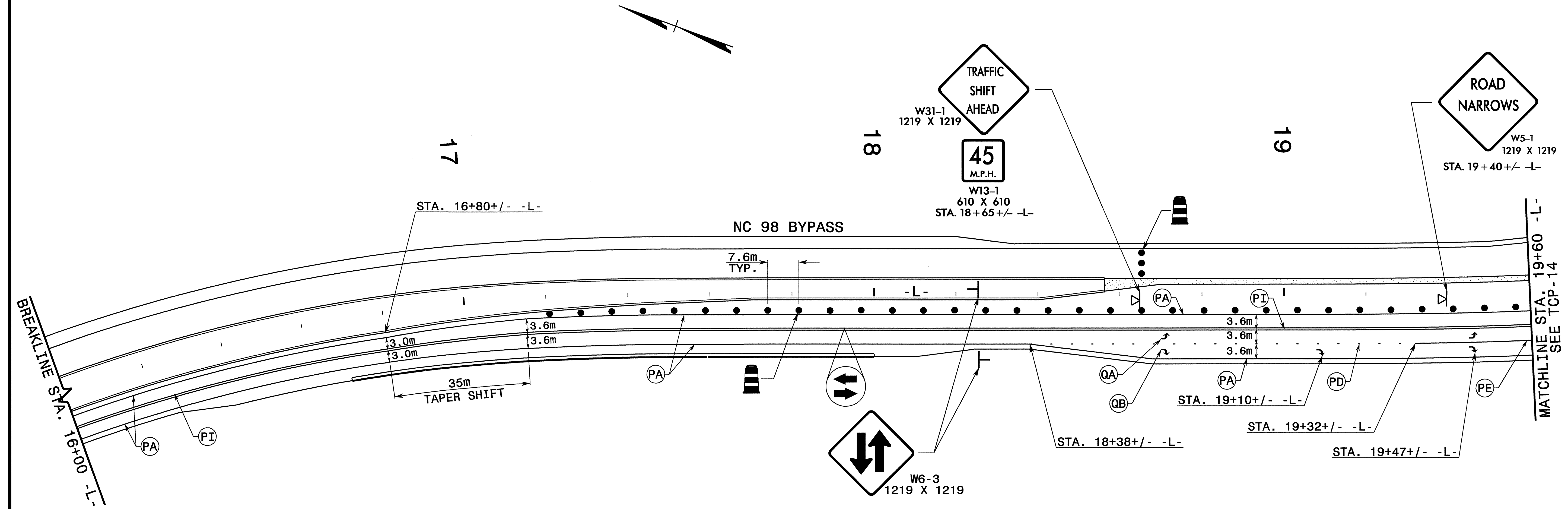
★ INDICATES SIGNALIZED INTERSECTION

NEW CONSTRUCTION
PAVEMENT REMOVAL

APPROVED: *M. McNamee* DATE: 2/14/07
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 025895
 MICHAEL M. McNAMEE

PHASE II DETAILS	
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(TEMPORARY MARKINGS FOR -L- LINE ONLY)

REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

ALL TEMPORARY PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

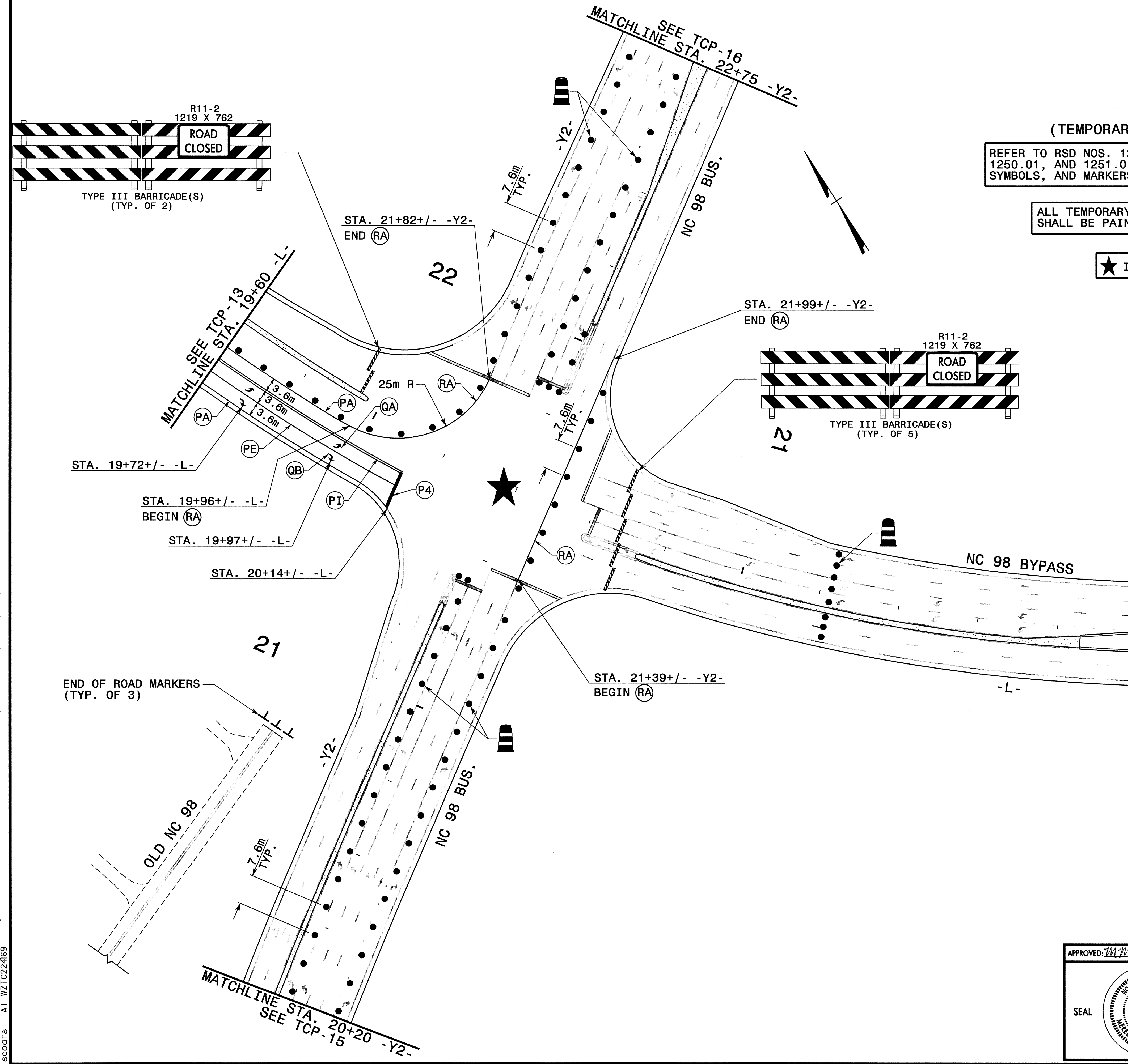
SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

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 scotts AT WZTC22469

APPROVED: <i>M. McDermid</i> DATE: <i>08/07</i>	PHASE II DETAILS AND TEMPORARY PAVEMENT MARKING PLAN (-L-)	
SCALE: 1:500	DATE: 08-03-07	REVISIONS
DWG. BY: SBC	DESIGN BY: SBC	
REVIEWED BY: MMM		



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-14



(TEMPORARY MARKINGS FOR -L- LINE ONLY)

REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

ALL TEMPORARY PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

★ INDICATES SIGNALIZED INTERSECTION

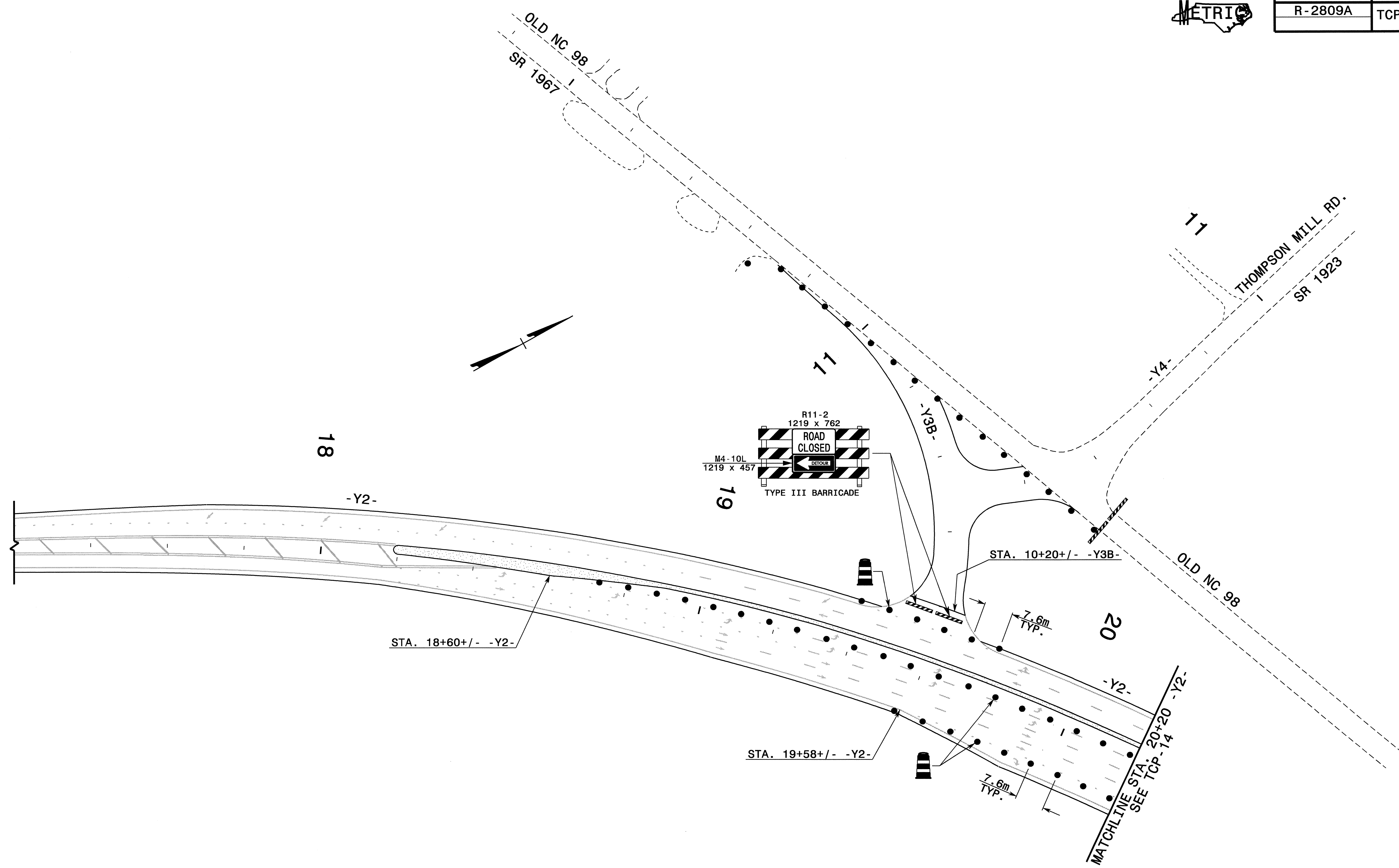
SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

08-AUG-2007 15:37
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 scotts AT WZTC22469

APPROVED: <i>M. McClum</i> DATE: <i>21/07</i>		PHASE II DETAILS AND TEMPORARY PAVEMENT MARKING PLAN (-L-)	
	SCALE: 1:500	REVISIONS	
	DATE: 08-03-07		
	DWG. BY: SBC		
	DESIGN BY: SBC		
REVIEWED BY: MMM			
			CADD FILE



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-15



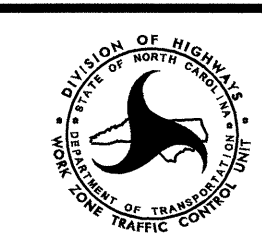
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 scotts AT WZTC2469

APPROVED: *M. McDaniel* DATE: 01/11/07



PHASE II DETAILS

SCALE: 1:500
 DATE: 08-03-07
 DWG. BY: SBC
 DESIGN BY: SBC
 REVIEWED BY: MMM

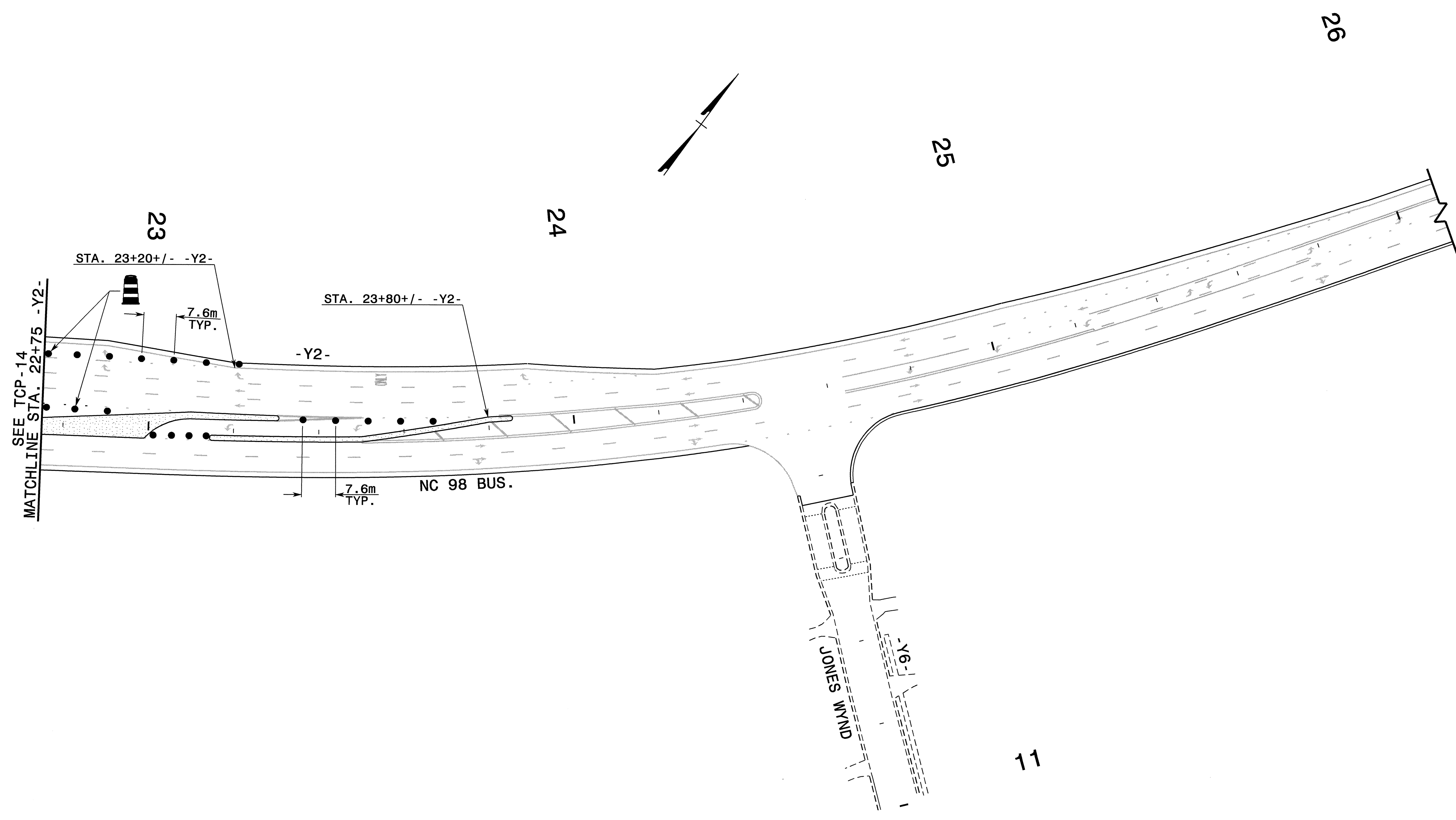


REVISIONS	

CADD FILE



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-16

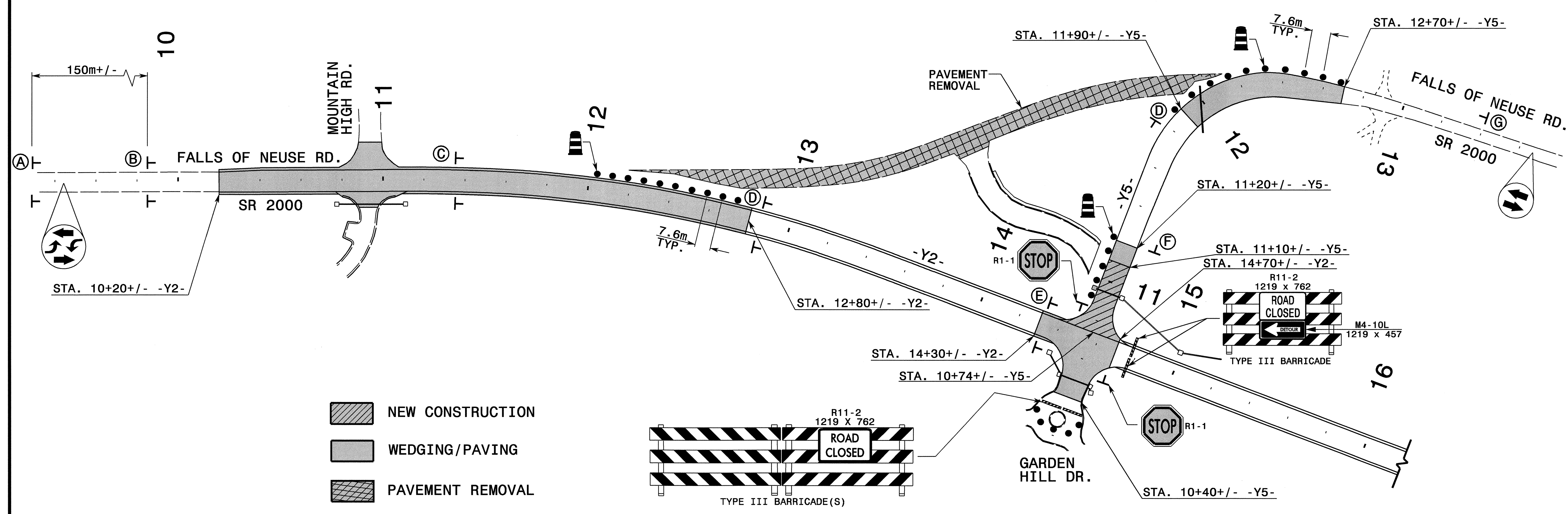


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 scotts AT WZT 022469

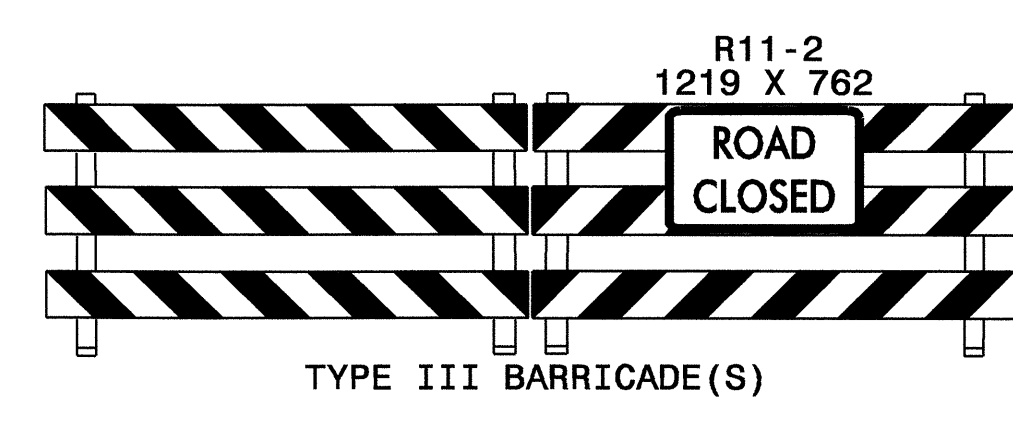
APPROVED: <i>M. McDaniel</i> DATE: <i>01/10/07</i>	PHASE II DETAILS	
	SCALE: 1:500	
	DATE: 08-03-07	
	DWG. BY: SBC	
	DESIGN BY: SBC	
REVIEWED BY: MMM	REVISIONS	



- W20-3
1219 x 1219
 (A) STA. 8+35+/- -Y2-
- W20-2
1219 x 1219
 (B) STA. 9+85+/- -Y2-
- W20-3B
1219 x 1219
 (C) STA. 11+35+/- -Y2-
- W3-1A
1219 X 1219
 (D) STA. 12+85+/- -Y2-
 STA. 11+80+/- -Y5-
- R1-1
 (E) STA. 14+35+/- -Y2-
- W1-2R
1219 X 1219
 (F) STA. 11+20+/- -Y5-
- W1-2L
1219 X 1219
 (G) STA. 13+40+/- -Y5-



- NEW CONSTRUCTION
- WEDGING/PAVING
- PAVEMENT REMOVAL



08-AUG-2007 15:36
 \\dot\dfsroot\01\proj\TIP\Projects-R\2809A\Traffic\control\top\2809A_TC_ph2_top17.dgn
 scotts AT WZTC22469

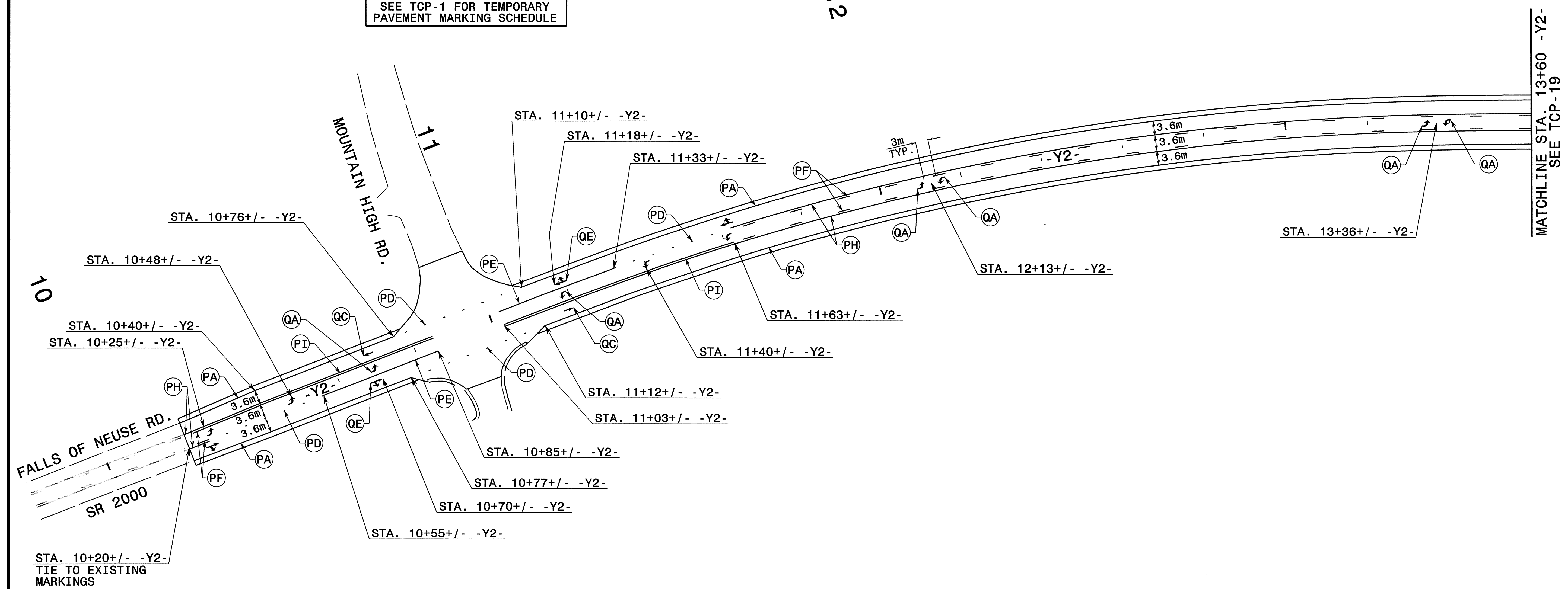
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REVISIONS							



REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

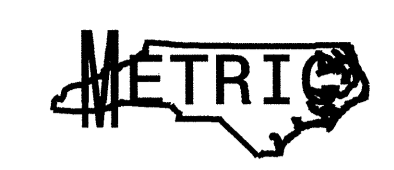
ALL TEMPORARY PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

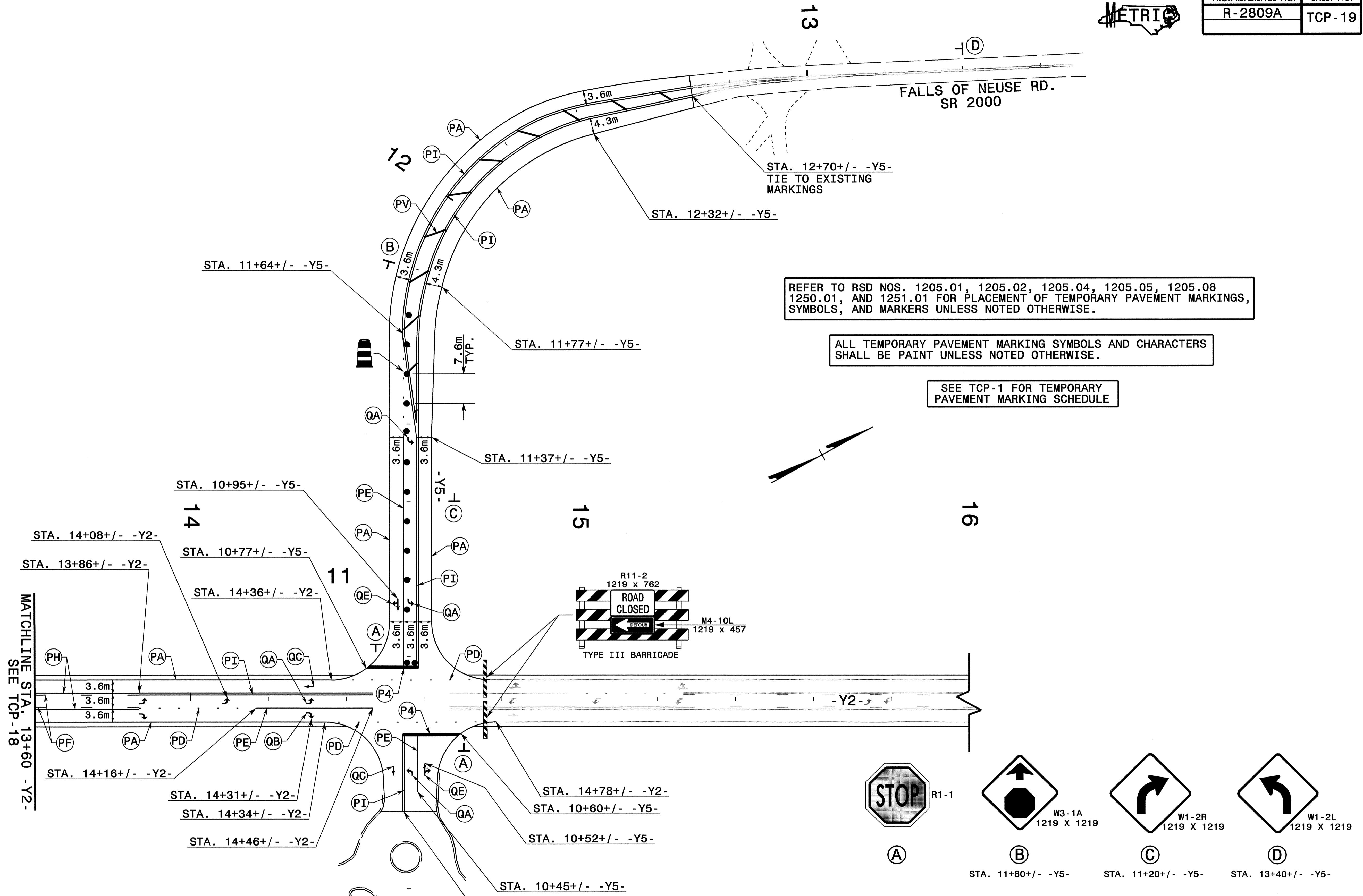


08-AUG-2007 15:35 \\dot\dfsroot\Pro\TIP\Projects-R\2809A\Traffic\tr\officecontrol\top\2809A.TC.ph2.tcp18.dgn scott.s

APPROVED: <i>M. M. M.</i> DATE: 8/14/07	PHASE II DETAILS AND TEMPORARY PAVEMENT MARKING PLAN (-Y2-)	
SCALE: 1:500	DATE: 08-03-07	REVISIONS
DWG. BY: SBC	DESIGN BY: SBC	
REVIEWED BY: MMM		



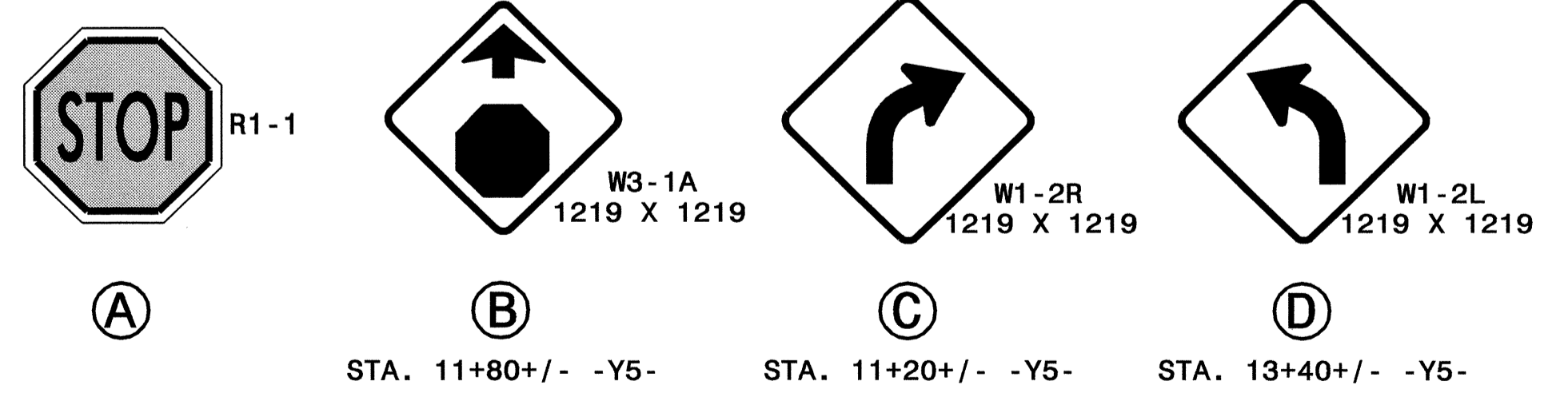
PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-19



REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

ALL TEMPORARY PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



MATCHLINE STA. 13+60 -Y2- SEE TCP-18

08-AUG-2007 15:35 \\dot\dfs\proj\proj\Traffic\Traffic\Projects-R\2809A\Traffic\TrafficControl\top\2809A_Tc.ph2.tcp19.dgn

APPROVED: *M. McNeill* DATE: 01/10/07

SEAL:

PHASE II DETAILS AND TEMPORARY PAVEMENT MARKING PLAN (-Y2- AND -Y5-)

SCALE: 1:500		REVISIONS
DATE: 08-03-07		
DWG. BY: SBC		
DESIGN BY: SBC		
REVIEWED BY: MMM		CADD FILE



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-20

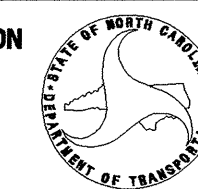
Sign Number:
Type: D Ground
Quantity: 1

Design By: DME
Project ID: R-2809A

Check By: DME
DIV: 5

STD #: N/A
Date: Nov 15, 2005

N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT

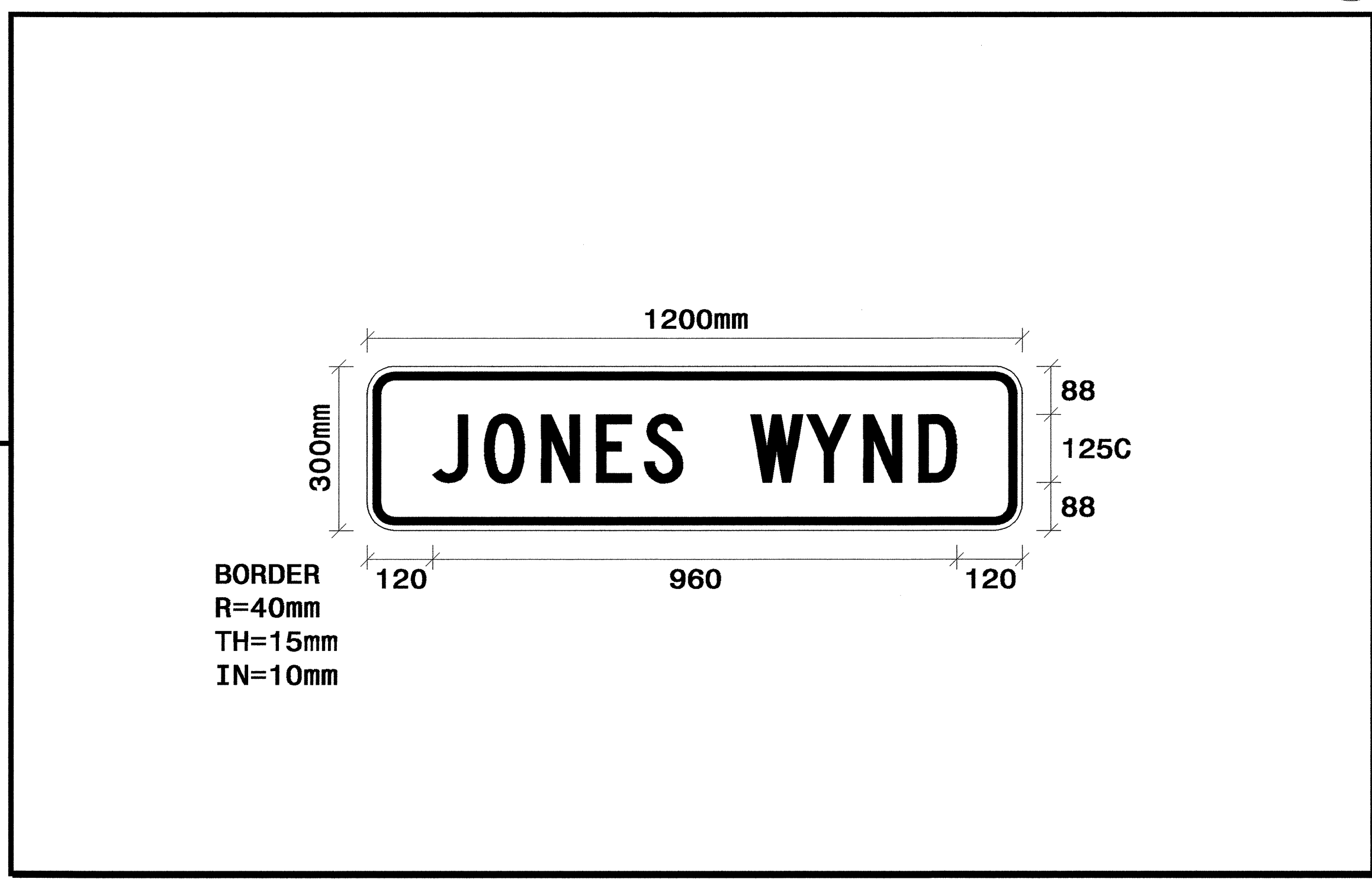


Sign Width: 1200mm
Height: 300mm
Total Area: 0.4 Sq.m

Background Color: Fluorescent Orange
Legend & Border Color: Black

Border Type: Recessed
Recess: 10mm
Width: 15mm
Radii: 40mm

Backing Material: 3.2 mm Aluminum
2.0 mm Composite



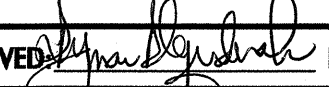
- NOTES:
- Legend and border shall be direct applied non-reflective sheeting.
 - Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.


Letter spacings are to start of next letter

	Letter spacings are to start of next letter											Series/Size						
	J	O	N	E	S	W	Y	N	D								Text Length	
	120	95	104	101	88	70	125	103	104	101	70	120						C125
																		960


Spacing Factor is 1 unless specified otherwise
FILENAME: GS40_ENGL

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$SERNAME\$\$\$\$\$

APPROVED:  DATE: 7/30/07



SIGN DESIGN
JONES WYND

SCALE: NONE		REVISIONS
DATE: 09-01-05		
DWG. BY: SBC		
DESIGN BY: SBC		
REVIEWED BY: MMN		CADD FILE



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-21

Sign Number: _____
Type: D Ground
Quantity: 1

Design By: DME
Project ID: R-2809A

Sign Width: 1200mm
Height: 600mm
Total Area: 0.7 Sq.m

Background Color: Fluorescent Orange
Legend & Border Color: Black

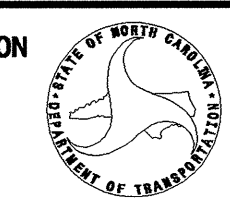
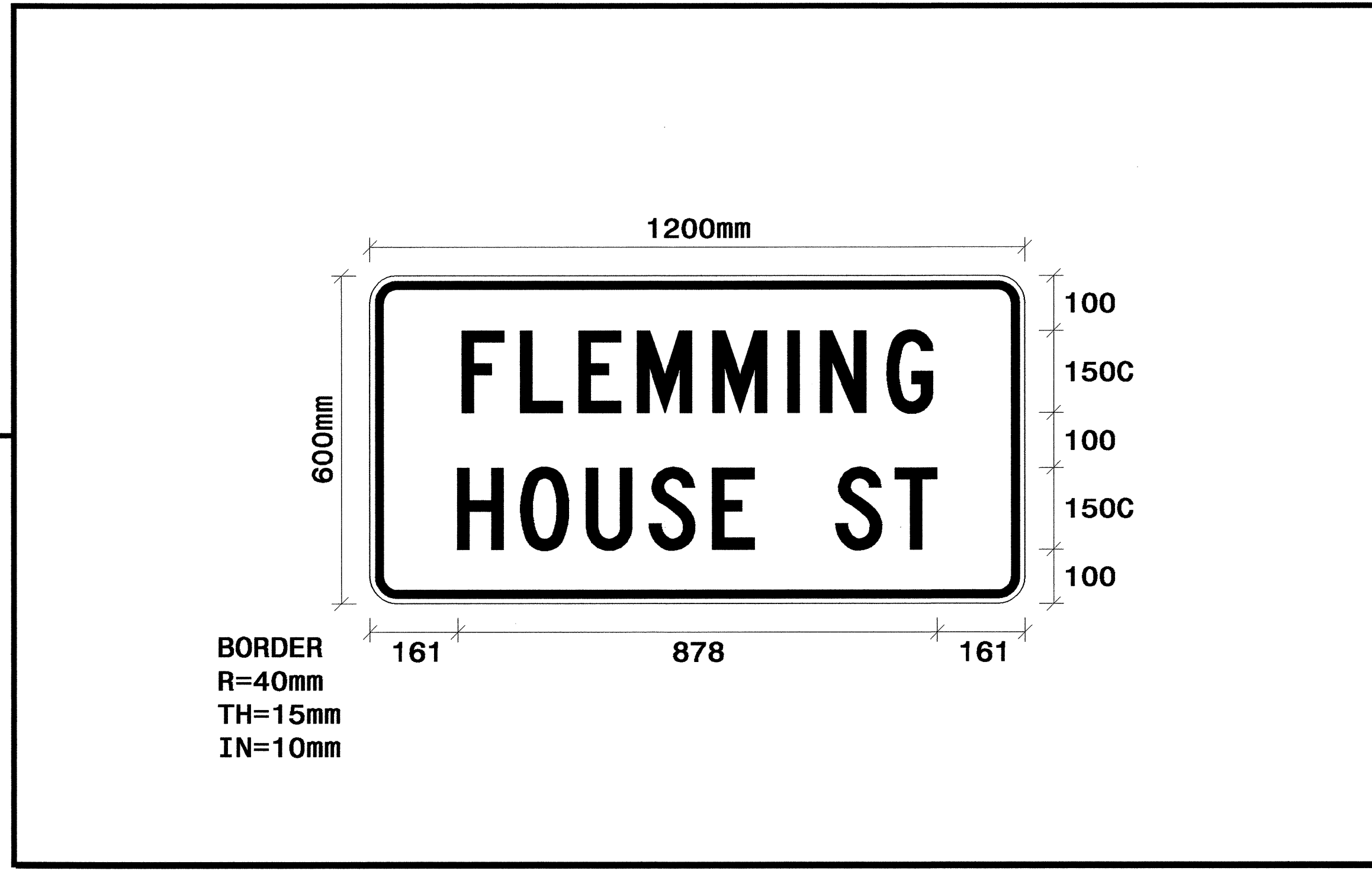
Border Type: Recessed
Recess: 10mm
Width: 15mm
Radii: 40mm

Backing Material: 3.2 mm Aluminum
 2.0 mm Composite

Check By: DME
DIV: 5

STD #: N/A
Date: Nov 15, 2005

N. C. DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 TRAFFIC ENGINEERING BRANCH
 SIGNING DEPARTMENT

- NOTES:**
1. Legend and border shall be direct applied non-reflective sheeting.
 2. Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.

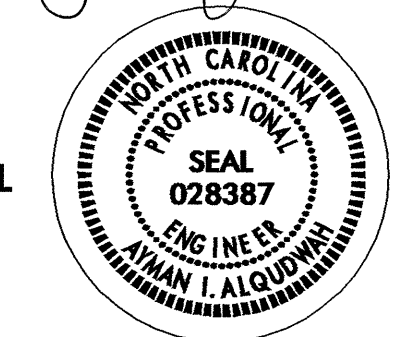
Letter spacings are to start of next letter

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																						862
		H	O	U	S	E		S	T													C150
	161	115	120	115	116	77	150	109	77	161												878

Spacing Factor is 1 unless specified otherwise
 FILENAME: GS40_ENGL

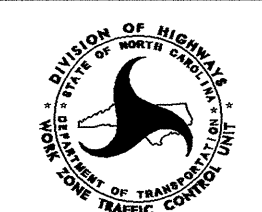
*****SYSTEMS*****
 *****DON*****
 *****USER*****

APPROVED: *[Signature]* DATE: 11/30/05



SEAL

SIGN DESIGN
FLEMMING HOUSE ST.

SCALE: NONE		REVISIONS	
DATE: 09-01-05			
DWG. BY: SBC			
DESIGN BY: SBC			
REVIEWED BY: MMM			



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-22

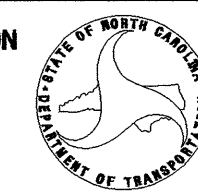
Sign Number:
 Type: D Ground
 Quantity: 1

Design By: DME
 Project ID: R-2809A

Check By: DME
 DIV: 5

STD #: N/A
 Date: Nov 15, 2005

N. C. DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 TRAFFIC ENGINEERING BRANCH
 SIGNING DEPARTMENT

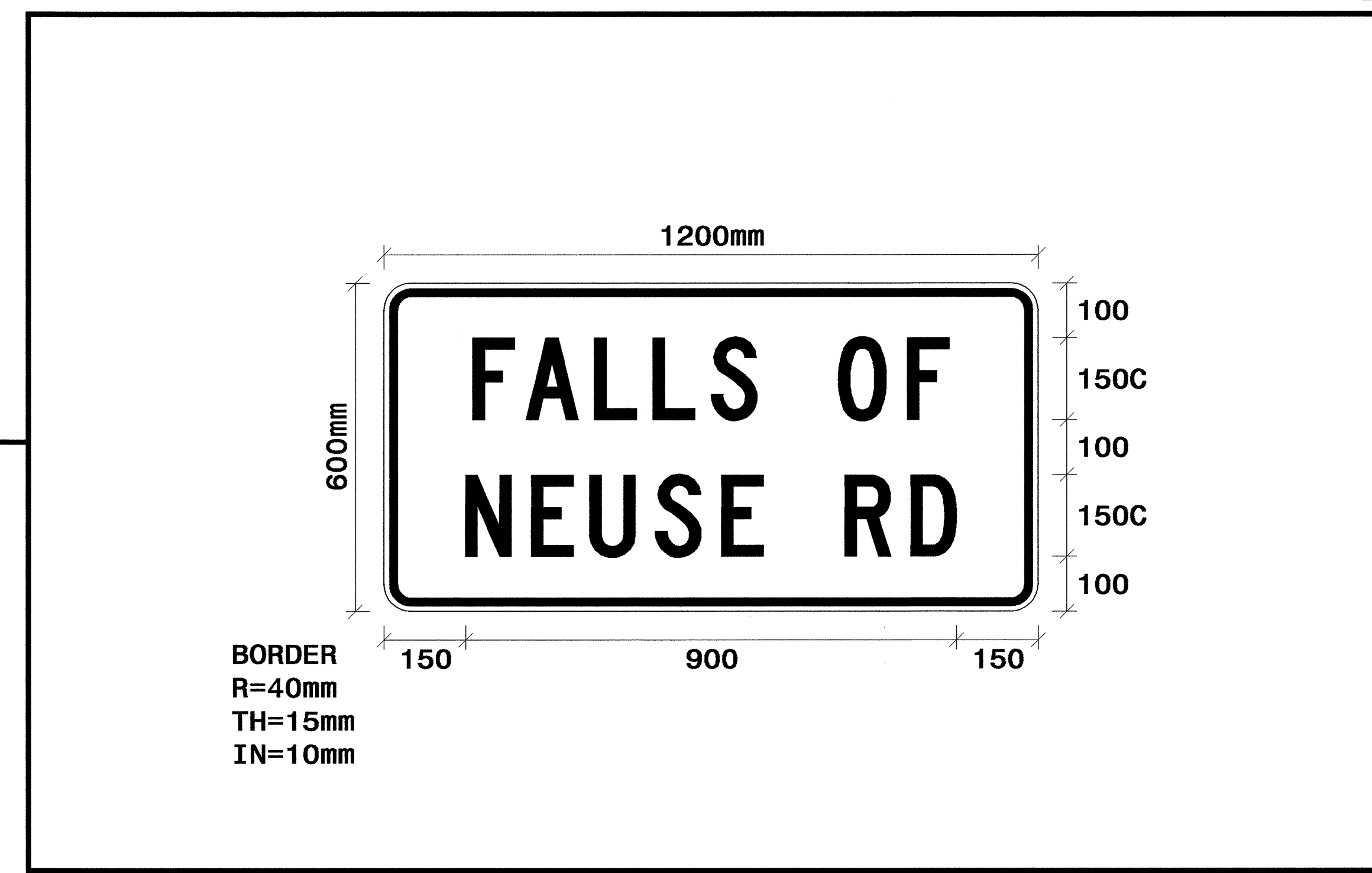


Sign Width: 1200mm
 Height: 600mm
 Total Area: 0.7 Sq.m

Background Color: Fluorescent Orange
 Legend & Border Color: Black

Border Type: Recessed
 Recess: 10mm
 Width: 15mm
 Radii: 40mm

Backing Material: 3.2 mm Aluminum
 2.0 mm Composite



- NOTES:
- Legend and border shall be direct applied non-reflective sheeting.
 - Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.

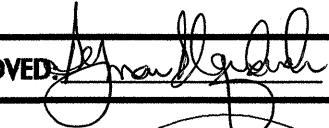
BORDER
 R=40mm
 TH=15mm
 IN=10mm


Letter spacings are to start of next letter

	Letter spacings are to start of next letter										Series/Size
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	163	97	126	107	107	83	150	127	77	163	C150
		N	E	U	S	E		R	D		873
	150	121	106	121	121	77	150	121	83	150	C150
											900

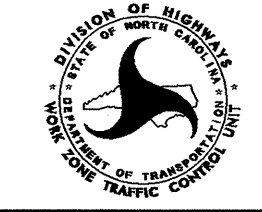
Spacing Factor is 1 unless specified otherwise
 FILENAME: GS40_ENGL

SYSTEMS
 DCN
 USERNAME

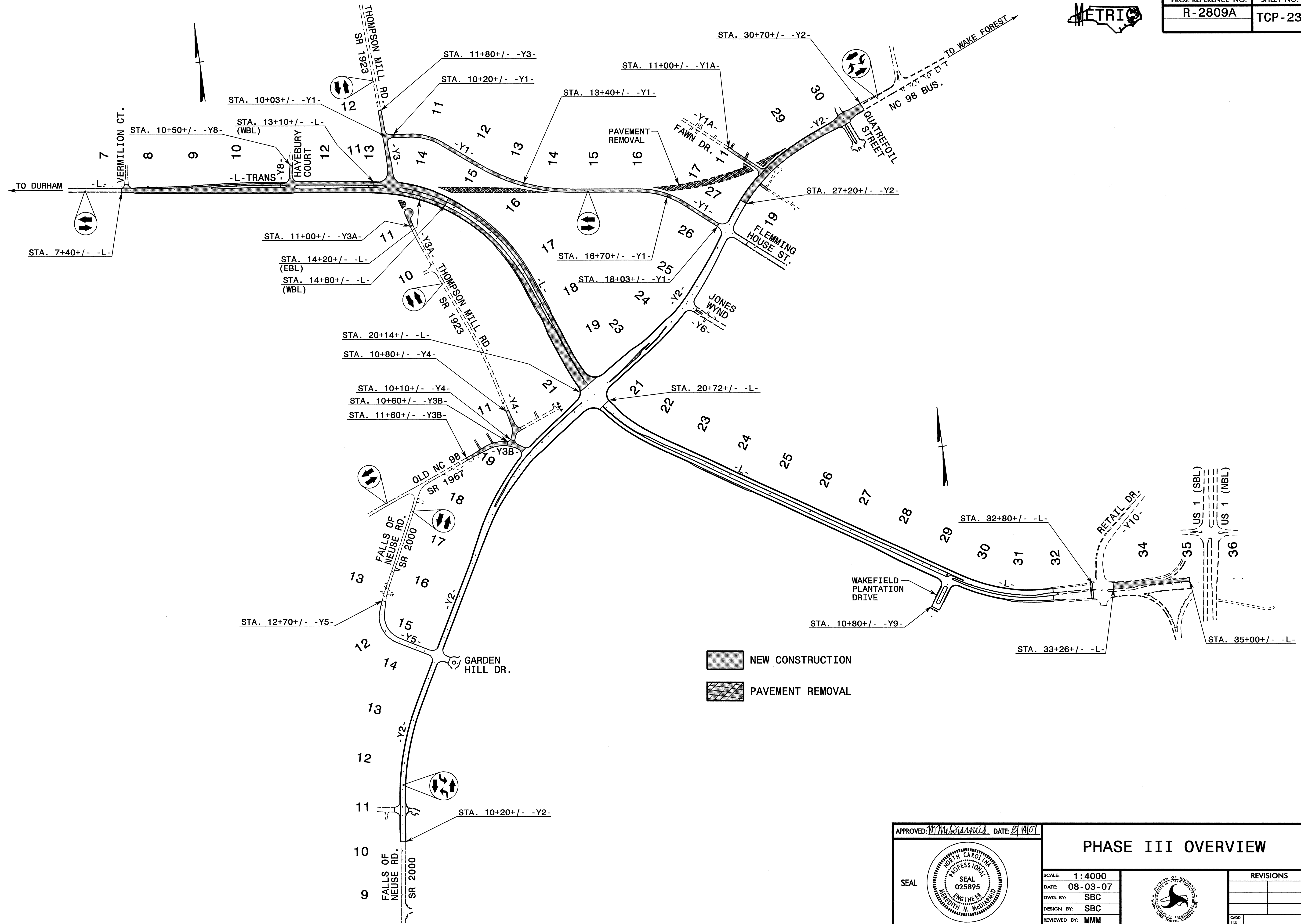
APPROVED:  DATE: 7/30/07

SEAL 

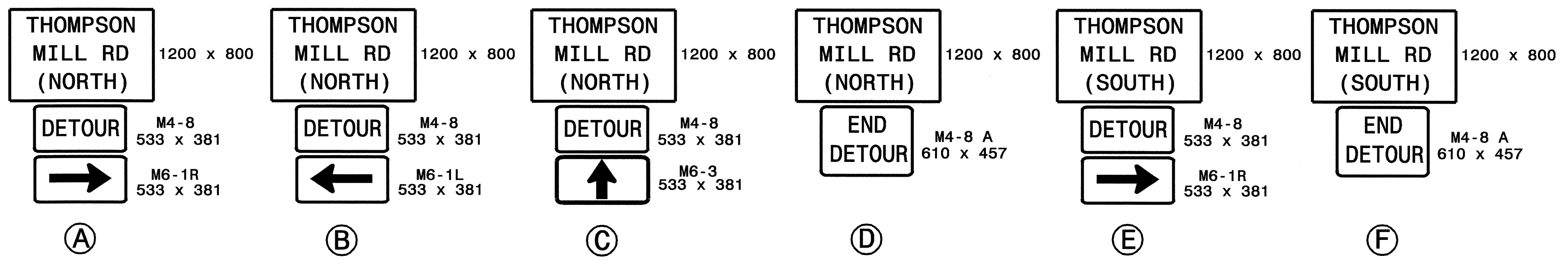
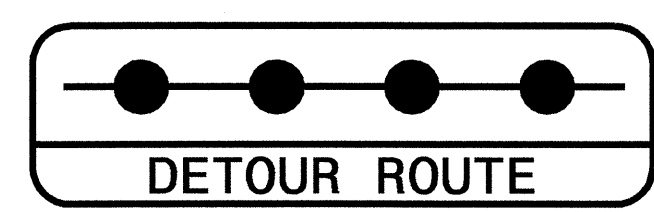
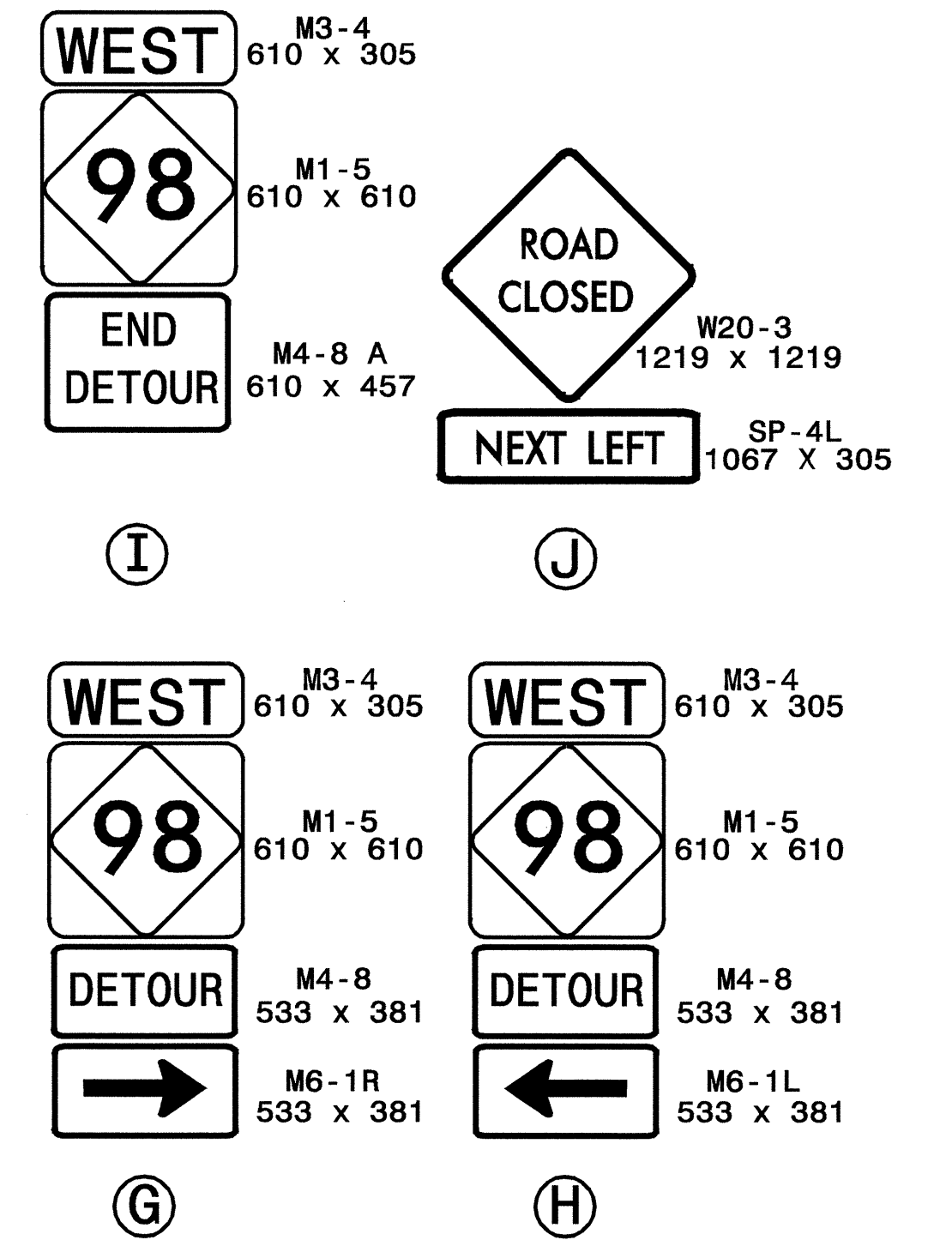
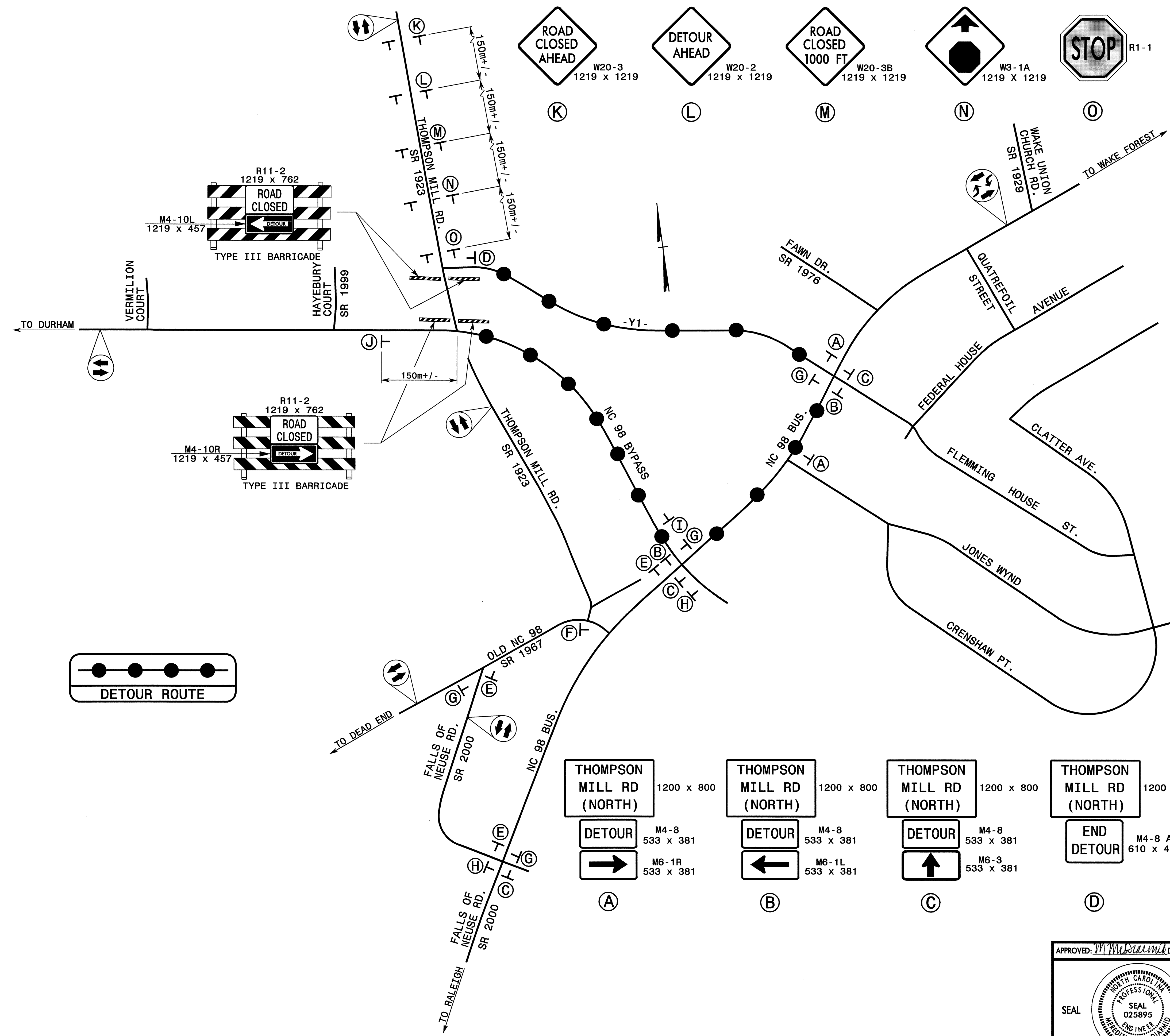
SIGN DESIGN
FALLS OF NEUSE RD.

SCALE: NONE		REVISIONS
DATE: 09-01-05		
DESIGN BY: SBC		
REVIEWED BY: MMM		

08-AUG-2007 15:34
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 scotts AT WZTC2469



APPROVED: <i>M. M. Mearns</i> DATE: <i>01/11/07</i>		<h3>PHASE III OVERVIEW</h3>		REVISIONS												
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	NO.	DATE	DESCRIPTION													
DATE: 08-03-07	DESIGN BY: SBC	REVIEWED BY: MMM	CAD FILE													
DWG. BY: SBC	REVIEWED BY: SBC															



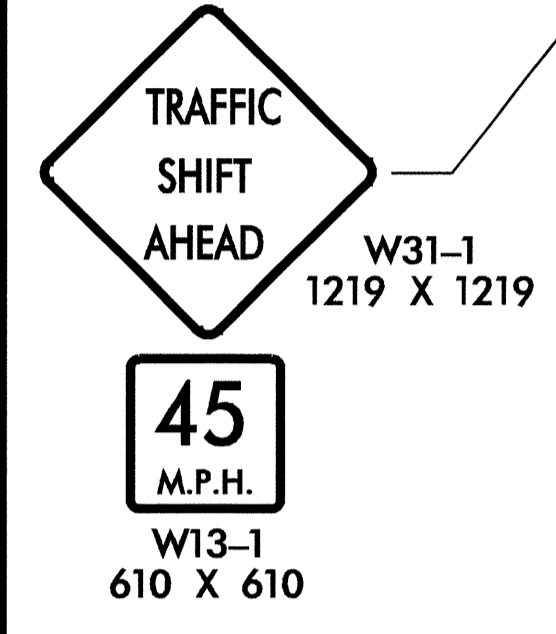
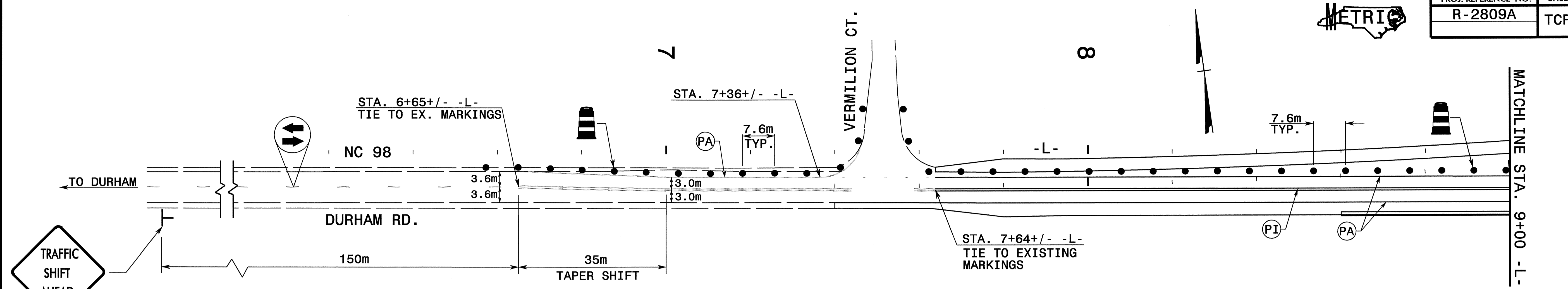
08-AUG-2007 15:33
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 scotts AT WIT 22469

APPROVED: *M. M. M.* DATE: 08/07

**PHASE III-OFFSITE DETOUR
THOMPSON MILL RD.**

SCALE: 1:4000
 DATE: 08-03-07
 DWG. BY: SBC
 DESIGN BY: SBC
 REVIEWED BY: MMM

REVISIONS

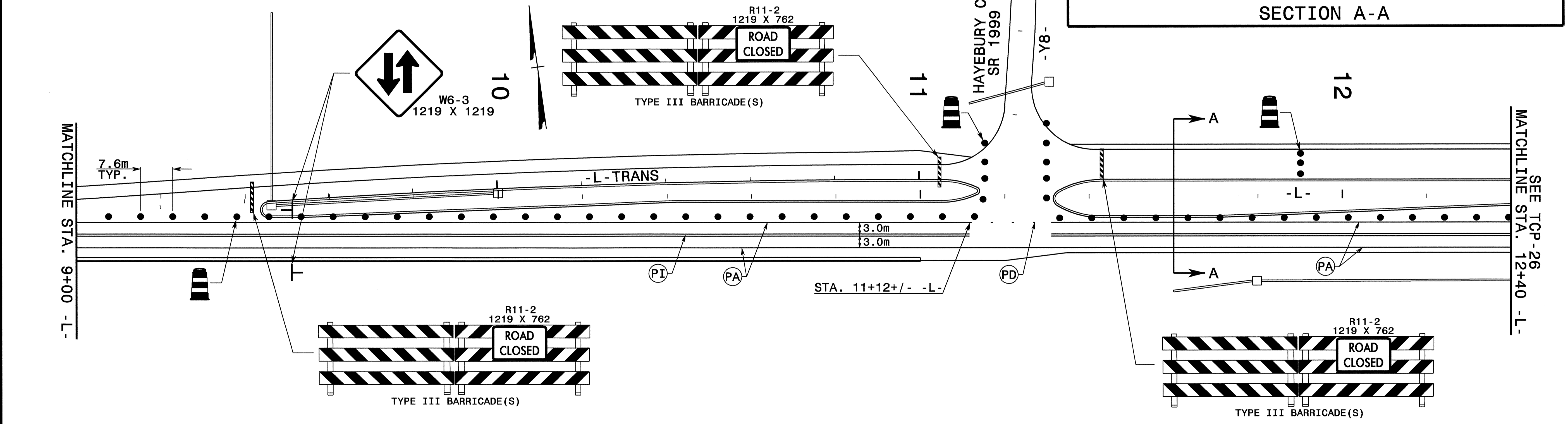
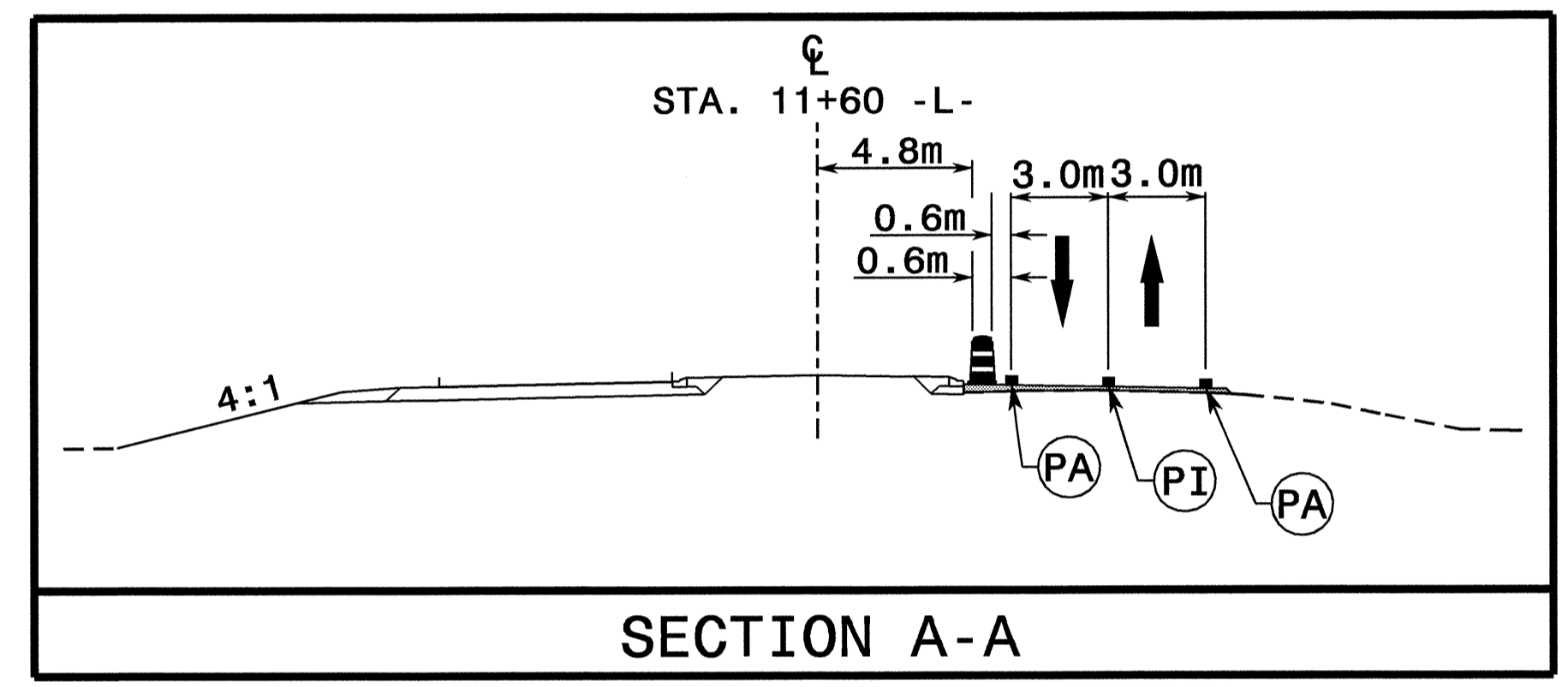


(TEMPORARY MARKINGS FOR -L- LINE ONLY)

REFER TO RSD NOS. 1205.01, 1205.02, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

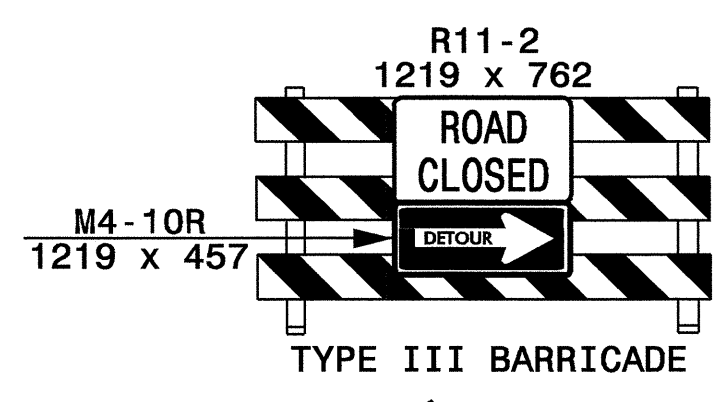
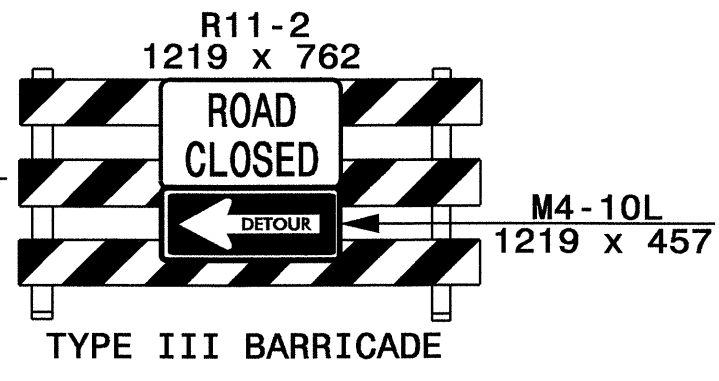
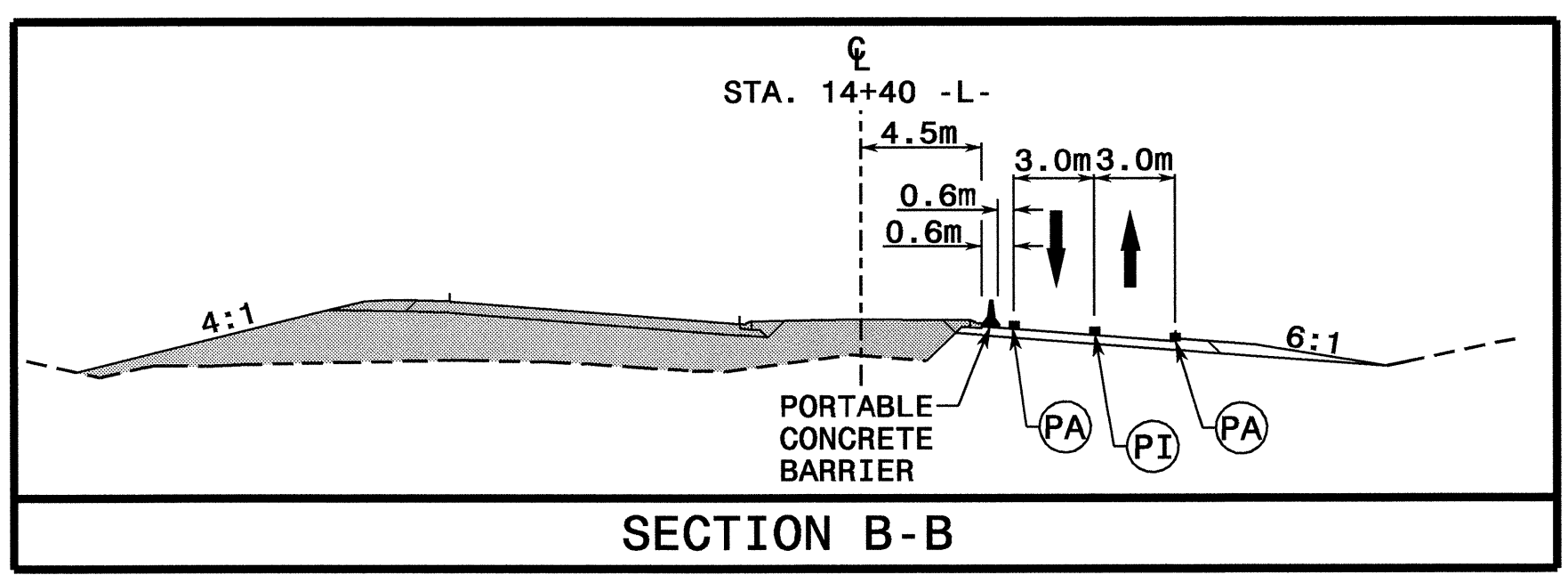
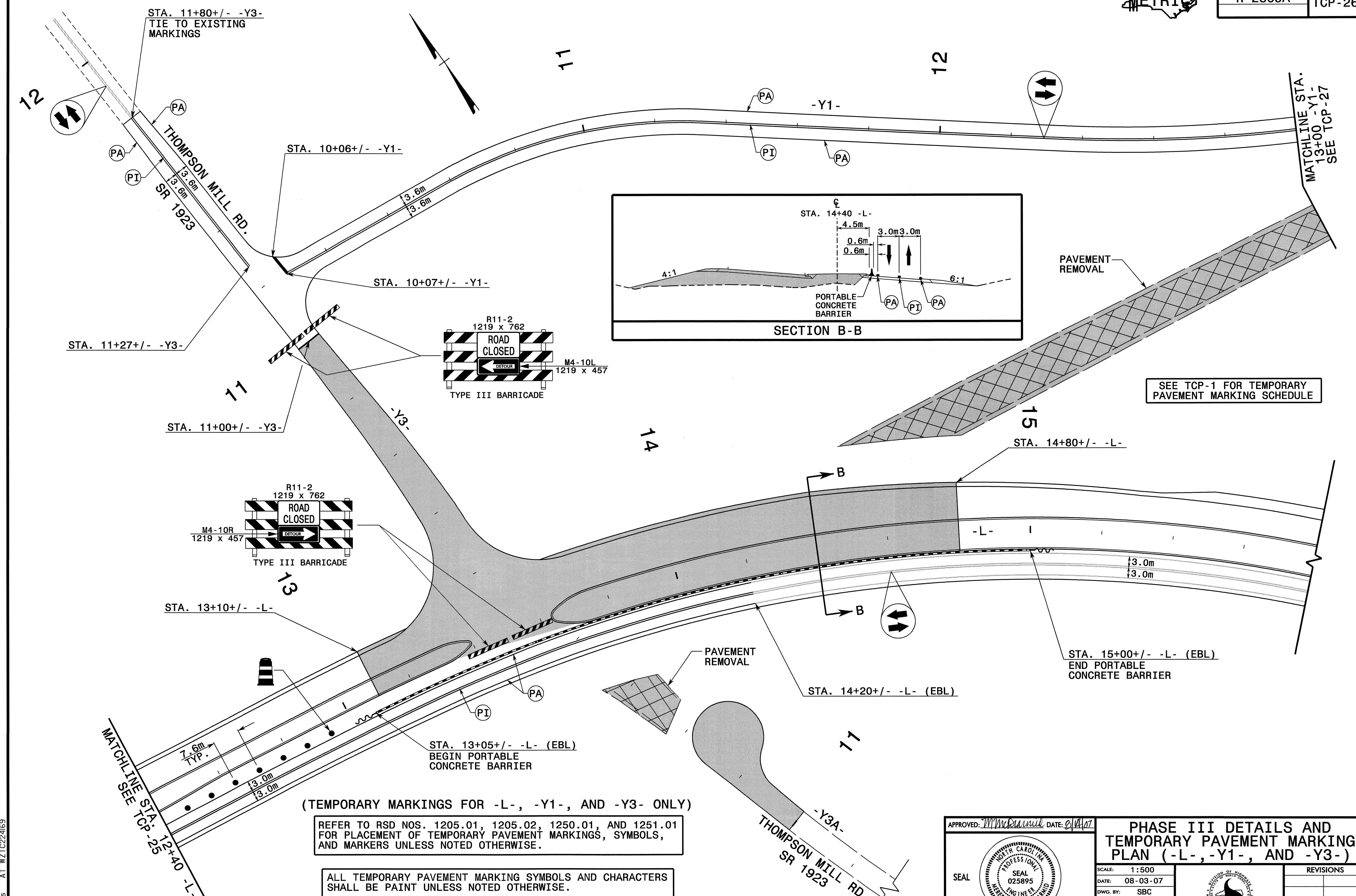
ALL TEMPORARY PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: <i>MM</i> DATE: <i>08/07</i>	<p>PHASE III DETAILS AND TEMPORARY PAVEMENT MARKING PLAN (-L-)</p> <p>SCALE: 1:500</p> <p>DATE: 08-03-07</p> <p>DWG. BY: SBC</p> <p>DESIGN BY: SBC</p> <p>REVIEWED BY: MMM</p>		REVISIONS
SEAL			

08-AUG-2007 15:33
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 saved AT WZTC22469



SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

(TEMPORARY MARKINGS FOR -L-, -Y1-, AND -Y3- ONLY)

REFER TO RSD NOS. 1205.01, 1205.02, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

ALL TEMPORARY PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

APPROVED: *MMM* DATE: 08/03/07

PHASE III DETAILS AND TEMPORARY PAVEMENT MARKING PLAN (-L-, -Y1-, AND -Y3-)

SCALE: 1:500
 DATE: 08-03-07
 DWG. BY: SBC
 DESIGN BY: SBC
 REVIEWED BY: MMM

REVISIONS

08-AUG-2007 15:33 \\dot\dfs\oct01\Pro\TIPProjects\R\2809A\TrafficControl\tcp\2809A_TC-ph3_top26.dgn



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-27

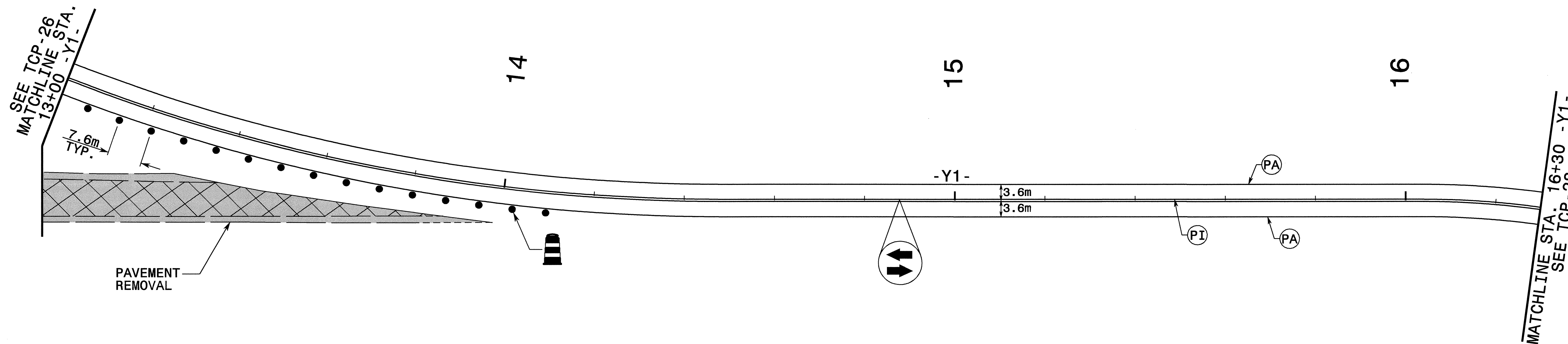


(TEMPORARY MARKINGS FOR -Y1- ONLY)

REFER TO RSD NOS. 1205.01, 1205.02, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

ALL TEMPORARY PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



08-AUG-2007 15:32
 V:\04\diffraction\ProJ\TIP\Projects-R\2809A\Traffic\control\tcp\2809A_TC_ph3_top27.dgn
 scoots AT WZTC22469

APPROVED: <i>MMM</i> DATE: <i>01/14/07</i>	PHASE III DETAILS AND TEMPORARY PAVEMENT MARKING PLAN (-Y1-)						
SCALE: 1:500	DATE: 08-03-07						
DWG. BY: SBC	DESIGN BY: SBC						
REVIEWED BY: MMM							
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REVISIONS							
		CADD FILE					



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-28

SEE TCP-27
MATCHLINE STA.
16+30+/- -Y1-

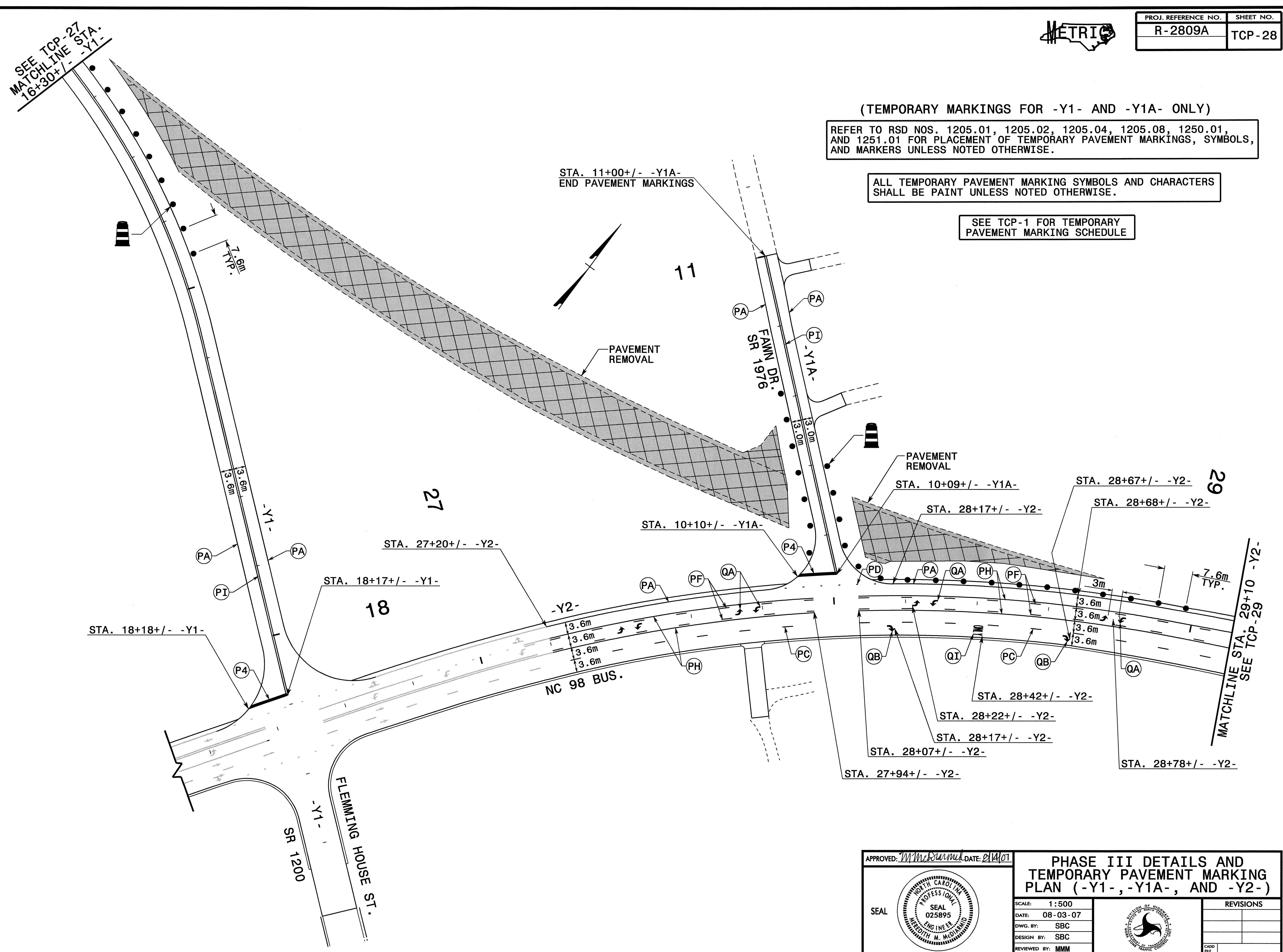
(TEMPORARY MARKINGS FOR -Y1- AND -Y1A- ONLY)

REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.08, 1250.01, AND 1251.01 FOR PLACEMENT OF TEMPORARY PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

ALL TEMPORARY PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE PAINT UNLESS NOTED OTHERWISE.

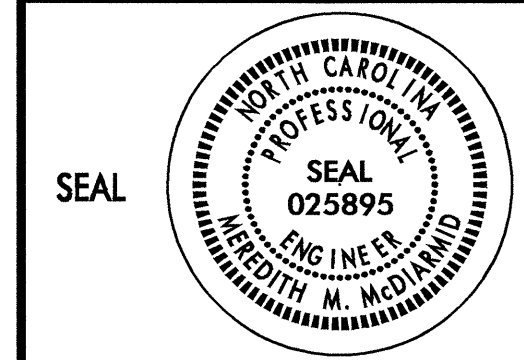
SEE TCP-1 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

STA. 11+00+/- -Y1A-
END PAVEMENT MARKINGS



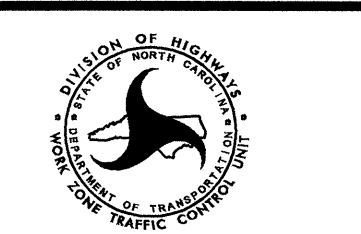
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SCOTT AT WZTC22469

APPROVED: *MM* DATE: 2/14/07

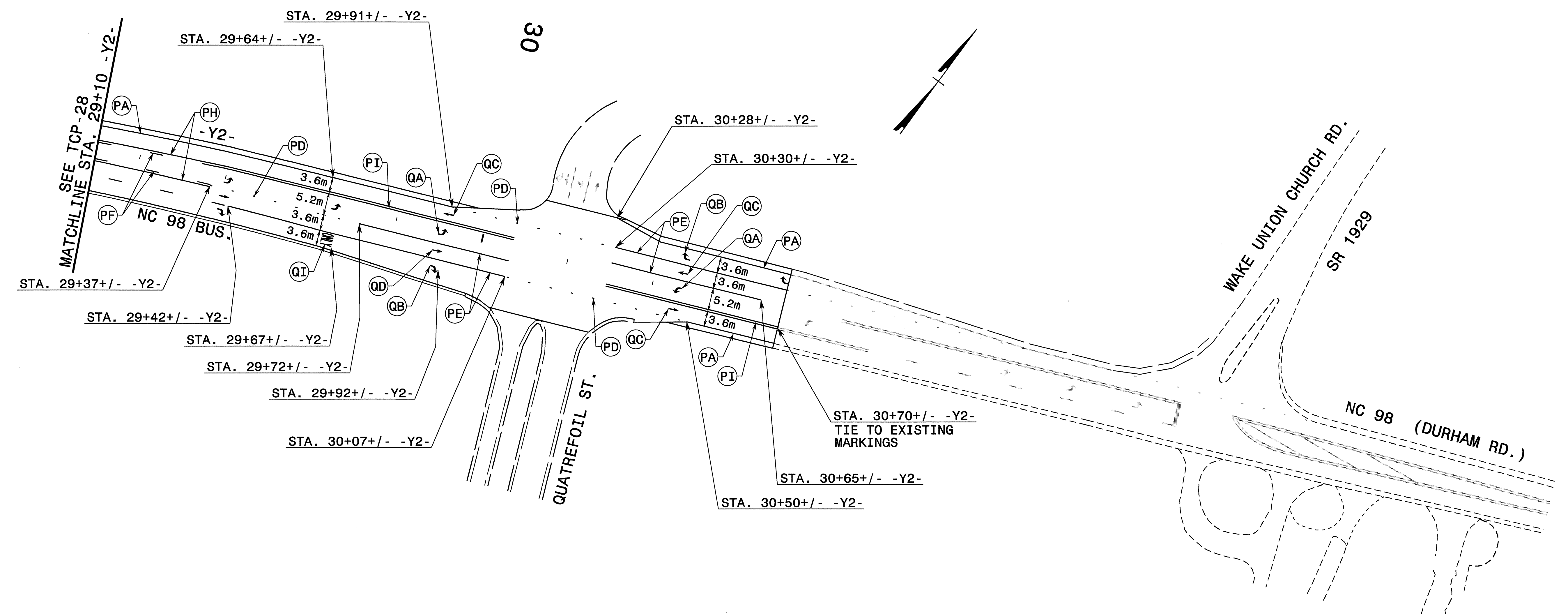


PHASE III DETAILS AND TEMPORARY PAVEMENT MARKING PLAN (-Y1-, -Y1A-, AND -Y2-)

SCALE: 1:500
DATE: 08-03-07
DWG. BY: SBC
DESIGN BY: SBC
REVIEWED BY: MMM



REVISIONS



REFER TO RSD NOS. 1205.01, 1205.02, 1205.04, 1205.05, 1205.08, 1250.01, AND 1251.01 FOR PLACEMENT OF FINAL PAVEMENT MARKINGS, SYMBOLS, AND MARKERS UNLESS NOTED OTHERWISE.

ALL PAVEMENT MARKING SYMBOLS AND CHARACTERS SHALL BE THERMOPLASTIC UNLESS NOTED OTHERWISE.

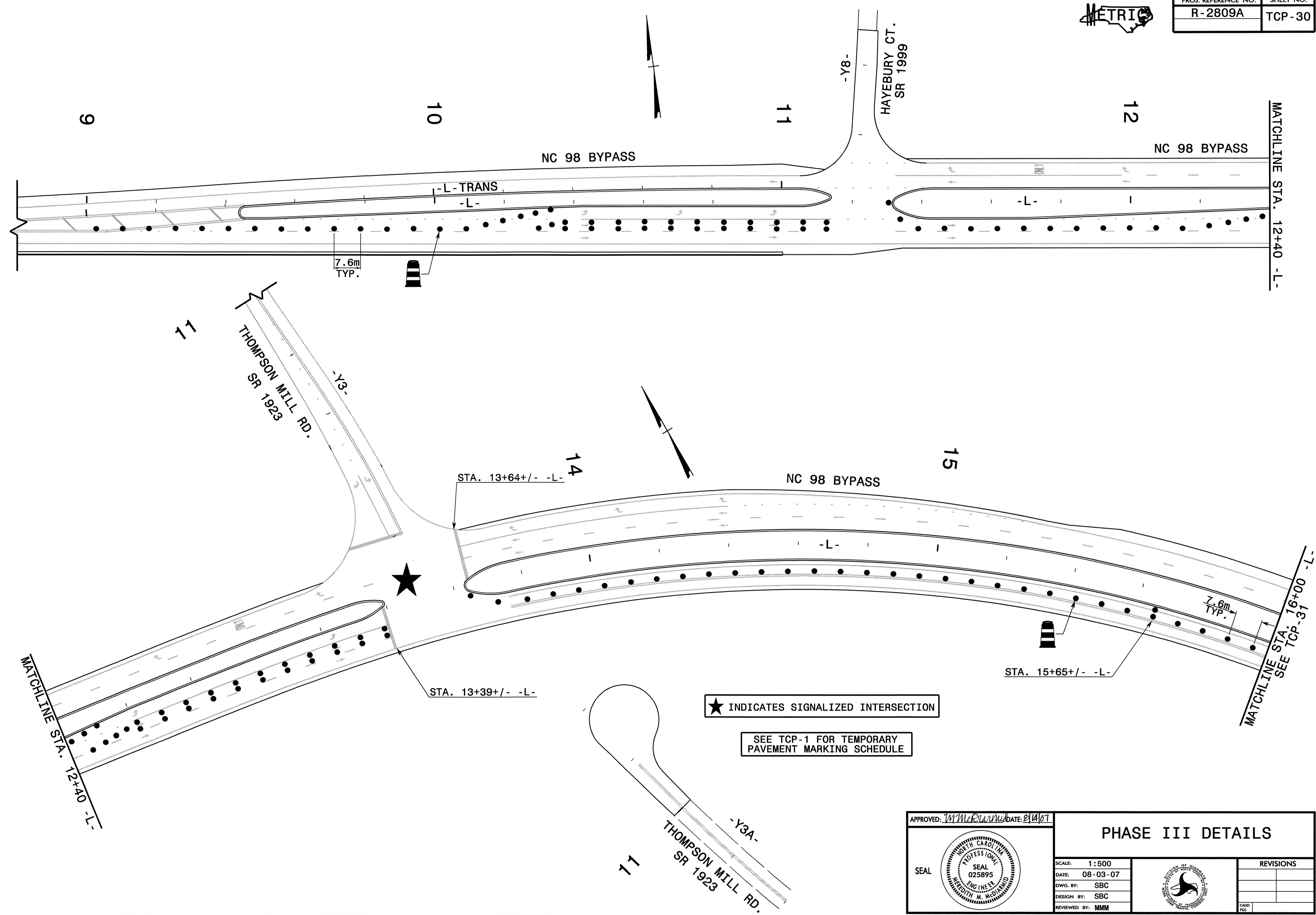
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08-AUG-2007 15:31
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 scotts - AT WZTC22469

APPROVED: <i>MMM</i> DATE: <i>08/07</i> 	PHASE III DETAILS AND TEMPORARY PAVEMENT MARKING PLAN (-Y2-)								
	SCALE: 1:500 DATE: 08-03-07 DWG. BY: SBC DESIGN BY: SBC REVIEWED BY: MMM		REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						
CADD FILE									



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-30



★ INDICATES SIGNALIZED INTERSECTION

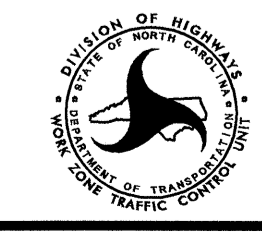
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 scotts AT WZTC22469

APPROVED: *MMM* DATE: 08/07

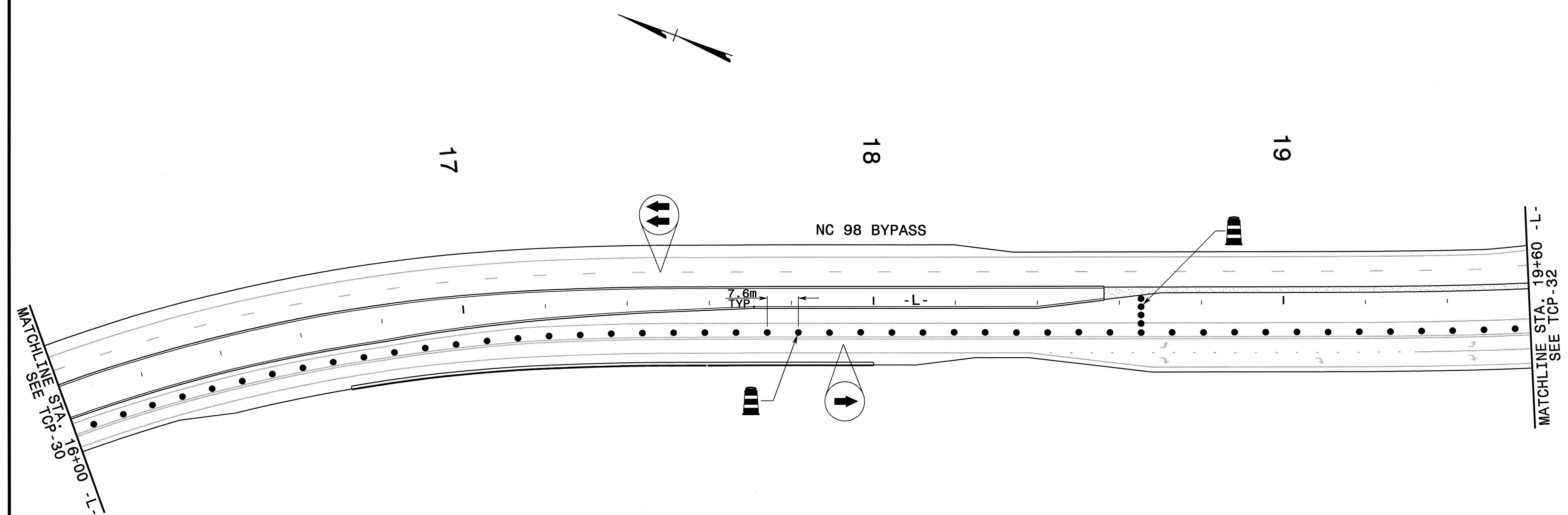
SEAL

PHASE III DETAILS	
SCALE: 1:500	REVISIONS
DATE: 08-03-07	
DWG. BY: SBC	
DESIGN BY: SBC	
REVIEWED BY: MMM	





PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-31

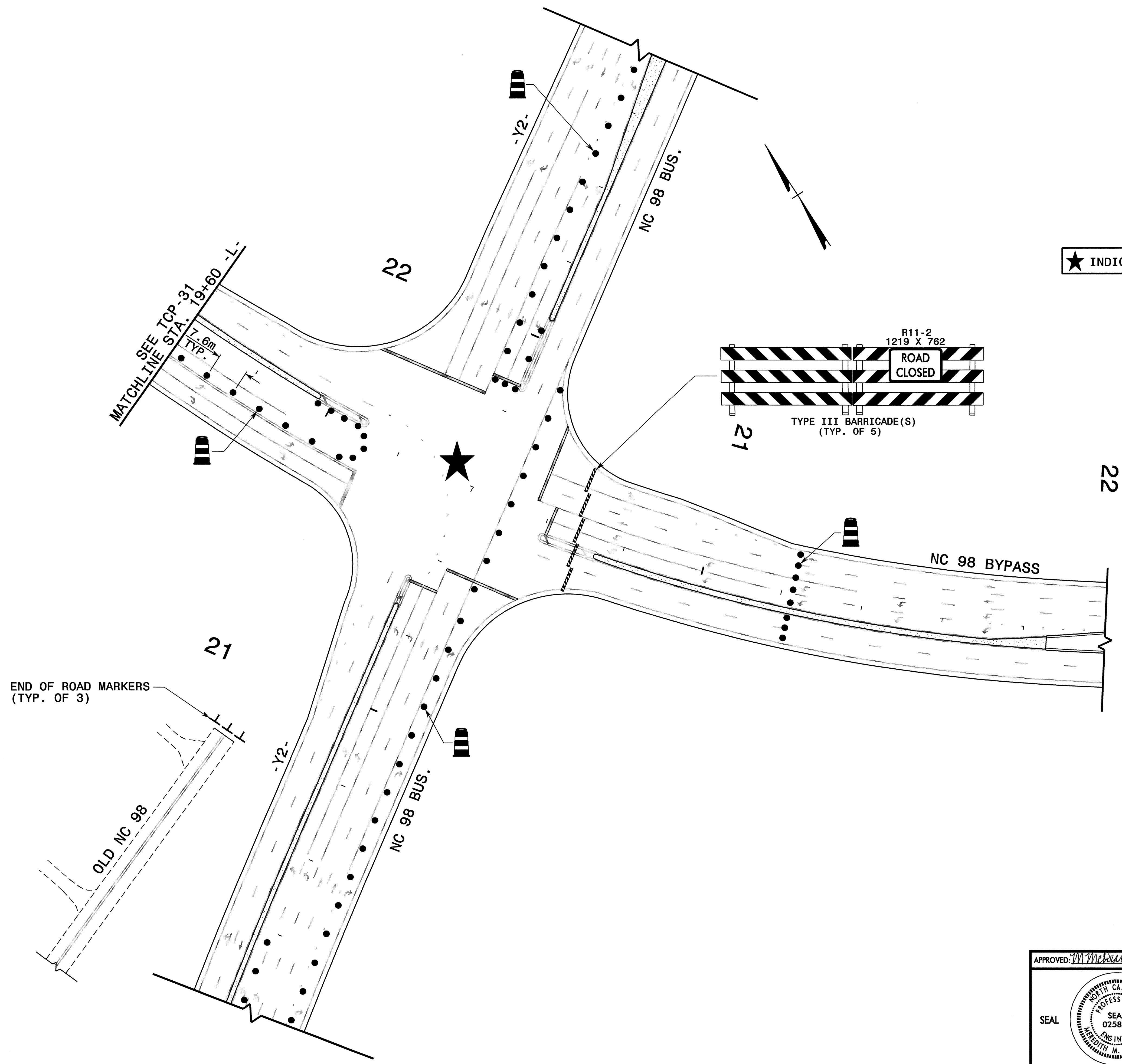


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 scoats AT WZT22469

APPROVED: <i>M. McDermid</i> DATE: <i>8/1/07</i>		PHASE III DETAILS											
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		REVISIONS											
DATE: 08-03-07													
DWG. BY: SBC													
DESIGN BY: SBC													
REVIEWED BY: MMM													



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-32



★ INDICATES SIGNALIZED INTERSECTION

08-AUG-2007 15:31
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 SCOTT A. WILSON

APPROVED: *M. M. M. M. M.* DATE: *8/1/07*



PHASE III DETAILS

SCALE: 1:500
 DATE: 08-03-07
 DWG. BY: SBC
 DESIGN BY: SBC
 REVIEWED BY: MMM



REVISIONS



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-33

Sign Number:
 Type: D Ground
 Quantity: 1

Design By: DME
 Project ID: R-2809A

Sign Width: 1200mm
Height: 800mm
Total Area: 1.0 Sq.m

Background Color: Fluorescent Orange
Legend & Border Color: Black

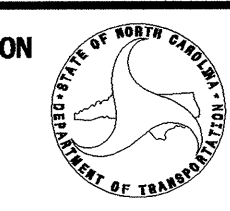
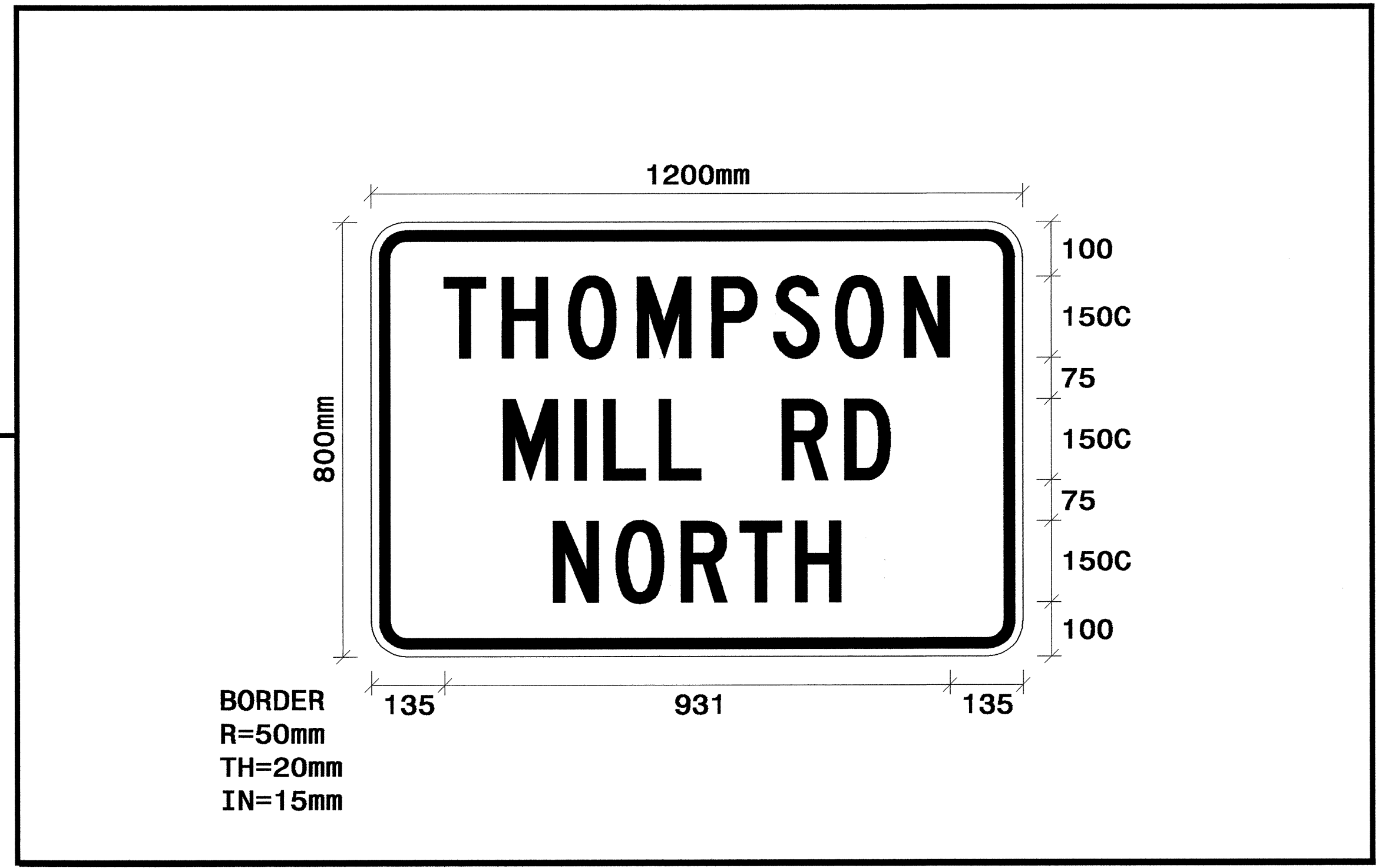
Border Type: Recessed
Recess: 15mm
Width: 20mm
Radii: 50mm

Backing Material: 3.2 mm Aluminum
 2.0 mm Composite

Check By: DME
 DIV: 5

STD #: N/A
Date: Nov 15, 2005

N. C. DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 TRAFFIC ENGINEERING BRANCH
 SIGNING DEPARTMENT

- NOTES:**
1. Legend and border shall be direct applied non-reflective sheeting.
 2. Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.


Letter spacings are to start of next letter

											Series/Size
	T	H	O	M	P	S	O	N			Text Length
	135	107	122	127	138	114	114	127	83	135	C150
		M	I	L	L		R	D			C150
	244	131	53	102	77	150	116	83	244		712
		N	O	R	T	H					C150
	335	115	120	109	102	83	335				530


Spacing Factor is 1 unless specified otherwise
 FILENAME: GS40_ENGL

 SYSTEMS

APPROVED: *[Signature]* DATE: 11/16/05



SIGN DESIGN
THOMPSON MILL RD.
(NORTH)

SCALE: NONE		REVISIONS
DATE: 09-01-05		
DWG. BY: SBC		
DESIGN BY: SBC		
REVIEWED BY: MMM		



PROJ. REFERENCE NO.	SHEET NO.
R-2809A	TCP-34

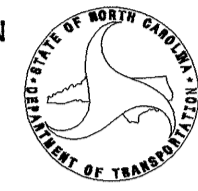
Sign Number:
 Type: D Ground
 Quantity: 1

Design By: DME
 Project ID: R-2809A

Check By: DME
 DIV: 5

STD #: N/A
 Date: Nov 15, 2005

N. C. DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 TRAFFIC ENGINEERING BRANCH
 SIGNING DEPARTMENT

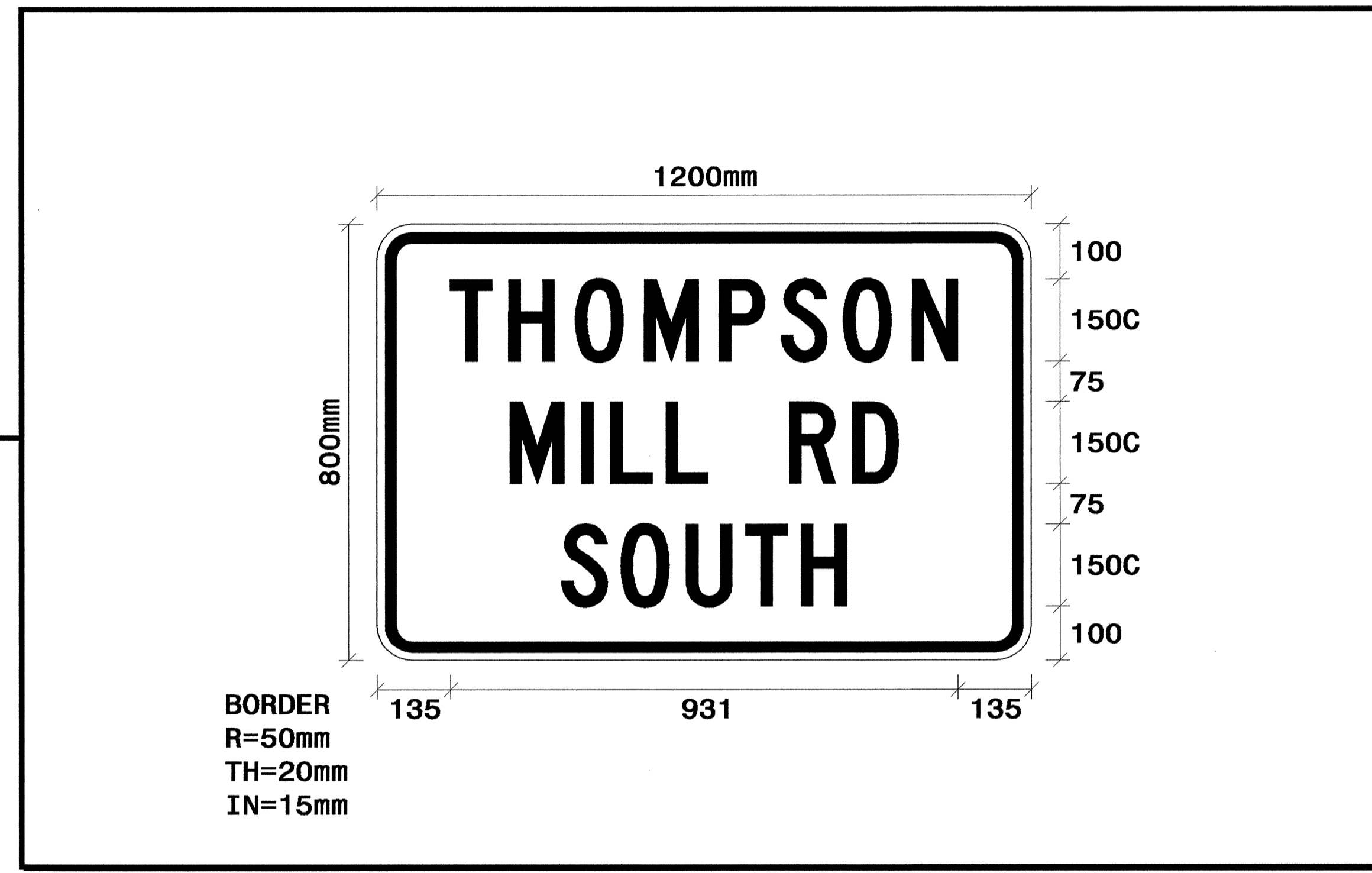


Sign Width: 1200mm
 Height: 800mm
 Total Area: 1.0 Sq.m

Background Color: Fluorescent Orange
 Legend & Border Color: Black

Border Type: Recessed
 Recess: 15mm
 Width: 20mm
 Radii: 50mm

Backing Material: 3.2 mm Aluminum
 2.0 mm Composite



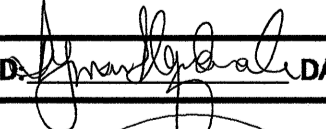
- NOTES:
1. Legend and border shall be direct applied non-reflective sheeting.
 2. Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.


Letter spacings are to start of next letter

	Letter spacings are to start of next letter										Series/Size	
											Text Length	
	T	H	O	M	P	S	O	N				C150
	135	107	122	127	138	114	114	127	83	135		931
	M	I	L	L		R	D					C150
	244	131	53	102	77	150	116	83	244			712
	S	O	U	T	H							C150
	339	109	120	109	102	83	339					523


Spacing Factor is 1 unless specified otherwise
 FILENAME: GS40_ENGL

\$\$\$\$\$SYSTEM\$\$\$\$\$
 \$\$\$DCN\$\$\$\$\$
 \$\$\$USERNAME\$\$\$\$\$

APPROVED:  DATE: 7/30/07

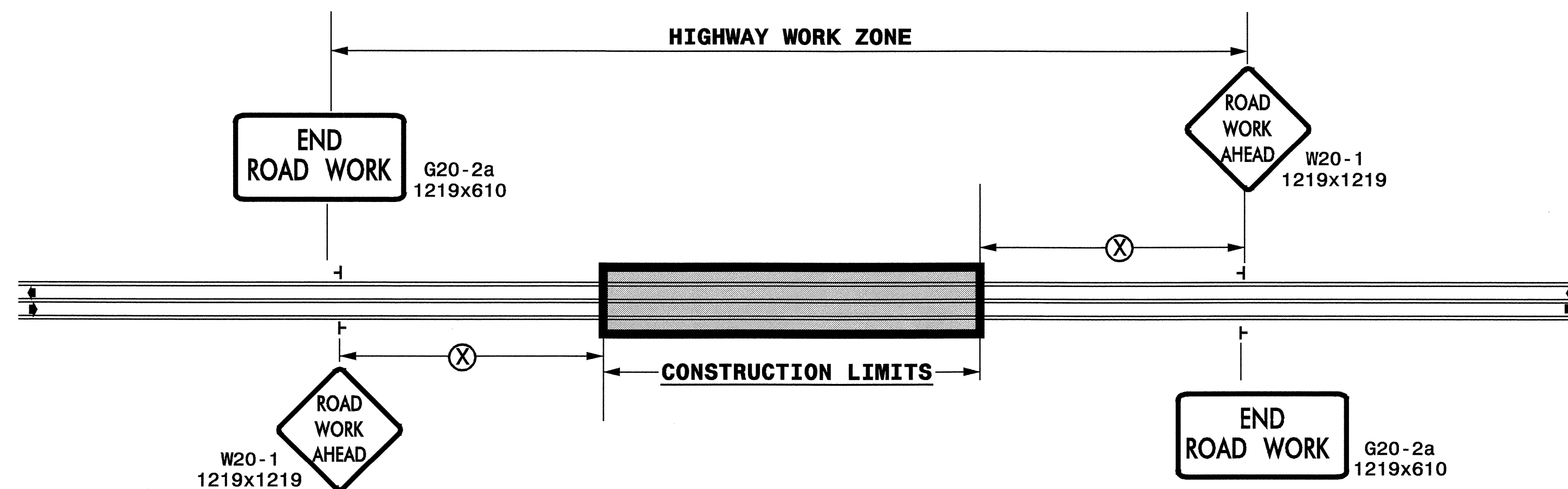
SEAL 

SIGN DESIGN
THOMPSON MILL RD.
(SOUTH)

SCALE: NONE		REVISIONS
DATE: 09-01-05		
DWG. BY: SBC		
DESIGN BY: SBC		
REVIEWED BY: MMM		

CAD FILE

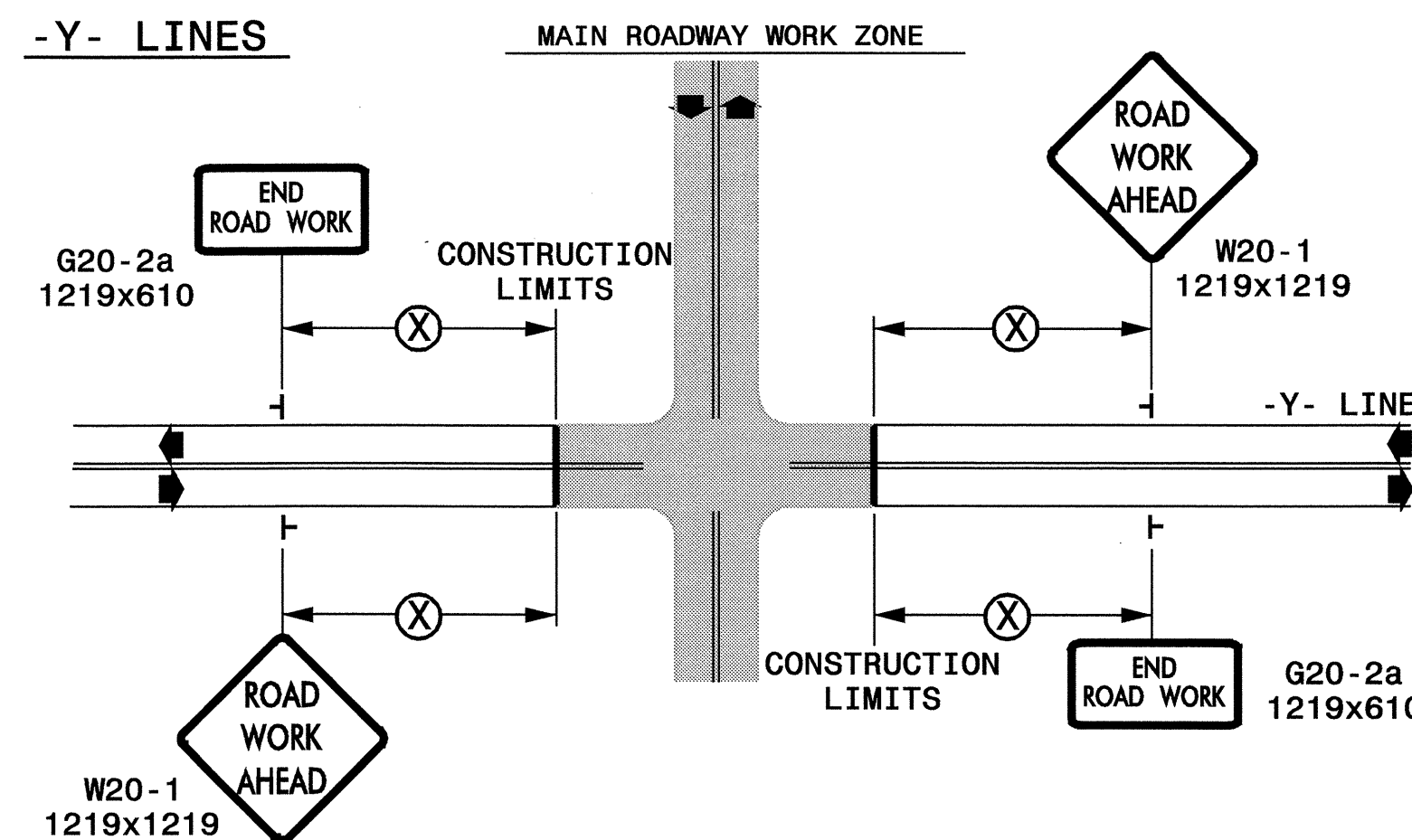
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	152m
≥ 55	305m

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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



DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE 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 1.4Kg STEEL U-CHANNEL POST OR 90mm X 90mm WOOD POST FOR ALL WORK ZONE SIGNS. 1.4Kg 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 1.4Kg STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 1.4Kg 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

APPROVED: <i>M. McDaniel</i> DATE: 8/14/07	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCE WORK ZONE WARNING SIGNS		
	SCALE: NONE		
	DATE: 01/01		REVISIONS
	DWG. BY:		7-98 10/01
	DESIGN BY:		10-98 03/04
REVIEWED BY:	01/01 11/04	CADD FILE	

08-AUG-2007 15:30 \\dot\dfs\cort\01\Proj\TIP\Projects-R\2809A\Traffic\TrafficControl\Top\VR2809A.Tc_std_top35.dgn scotts AT WZTC2469



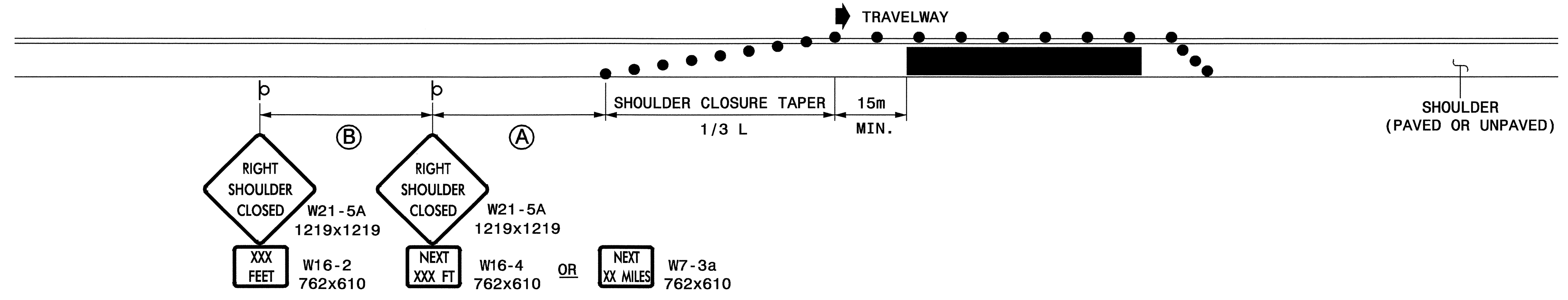
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-05

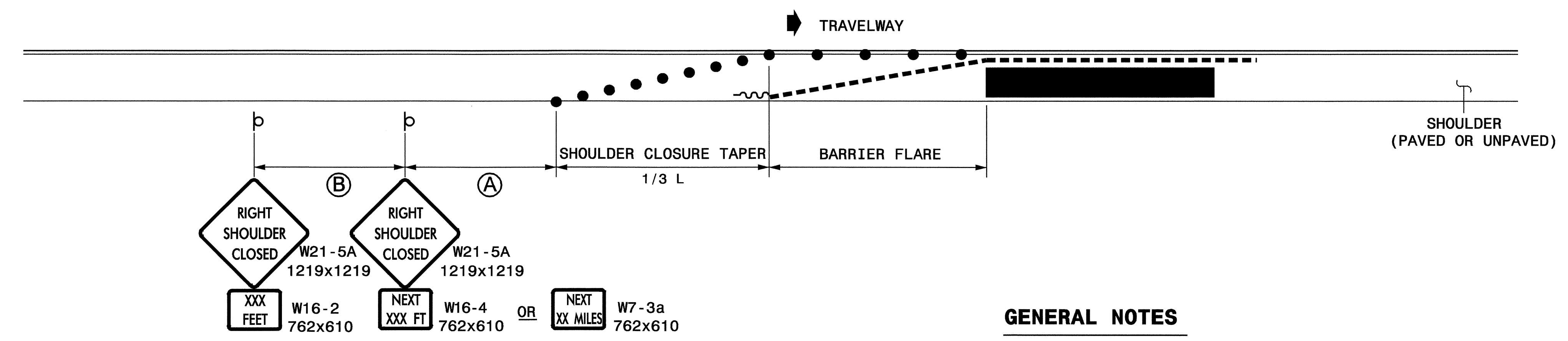
METRIC STANDARD DRAWING FOR
TEMPORARY SHOULDER CLOSURES

SHEET 1 OF 1
1101D04

SHOULDER CLOSURES UTILIZING DRUMS



SHOULDER CLOSURES UTILIZING TEMPORARY BARRIER



GENERAL NOTES

- PLACE SHOULDER CLOSURE SIGNS ON THE SAME SIDE AS THE SHOULDER THAT IS CLOSED.
- PLACE DRUMS IN THE SHOULDER TAPER AT THE MAXIMUM SPACING EQUAL IN METERS TO 1/3rd THE POSTED SPEED LIMIT (mph). THE MAXIMUM SPACING OF DRUMS ALONG THE WORK AREA AND BARRIER FLARE IS EQUAL IN METERS TO 2/3rds THE POSTED SPEED LIMIT (mph).
- FLARE THE APPROACH END OF PORTABLE CONCRETE BARRIER BEYOND THE SHOULDER AND USE A CRASH CUSHION FOR PROTECTION IF THE EXPOSED END OF THE BARRIER IS WITHIN THE "CLEAR ZONE".
- USE STATIONARY SIGNS FOR LONG TERM OPERATIONS (LONGER THAN 3 DAYS).
- REFER TO STD. 1101.11 SHEETS 1, 3, & 4, FOR "L" DISTANCE, BARRIER FLARE RATES, AND SIGN SPACING.

LEGEND

	TEMPORARY CRASH CUSHION
	PORTABLE CONCRETE BARRIER
	DRUM
	STATIONARY OR PORTABLE SIGN
	DIRECTION OF TRAFFIC FLOW

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-05

METRIC STANDARD DRAWING FOR
TEMPORARY SHOULDER CLOSURES

SHEET 1 OF 1
1101D04

08-AUG-2007 16:01 \\dot\cfr\dot\p\proj\1101D04\1101D04.dwg R:\R2809A\tr\aff\cfr\tr\1101D04\1101D04.dwg AT WZTC22469

APPROVED: *M. M. Durand* DATE: 8/14/07

SEAL

REPLACEMENT DETAIL FOR RSD NO. 1101.04

SCALE: NONE		REVISIONS
DATE:		
DWG. BY:		
DESIGN BY:		
REVIEWED BY:		

CADD FILE

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

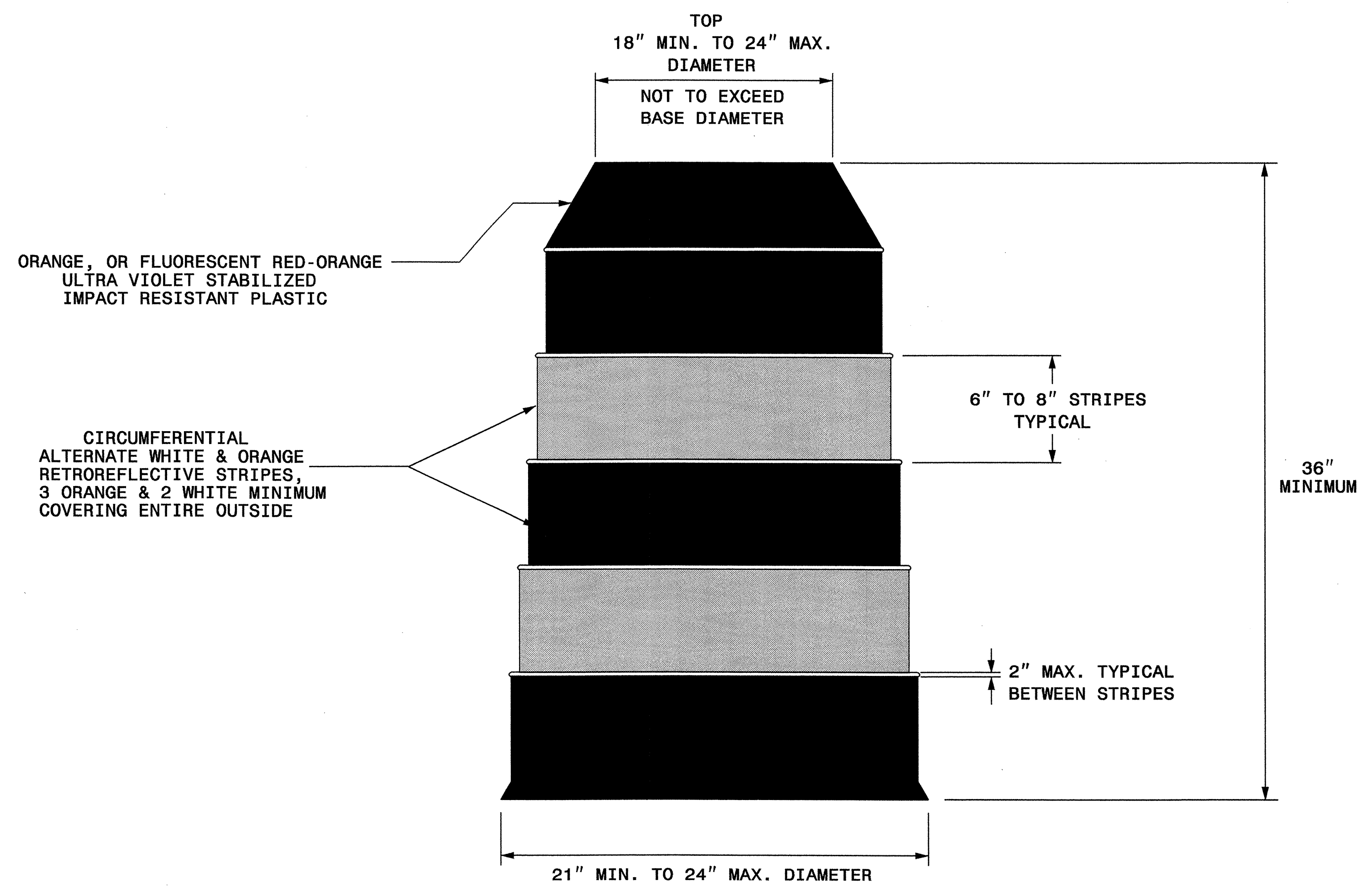
ENGLISH STANDARD DRAWING FOR
DRUMS

SHEET 1 OF 1
1130D01

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
DRUMS

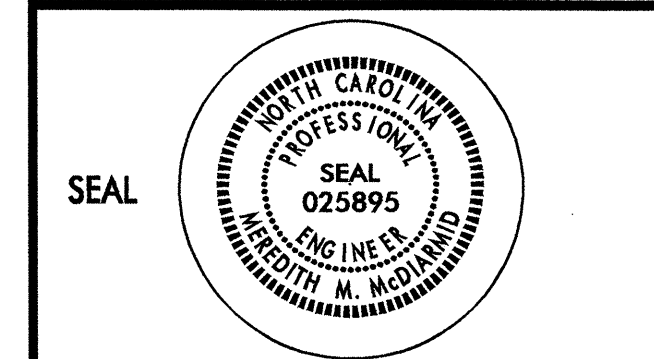
SHEET 1 OF 1
1130D01



GENERAL NOTES

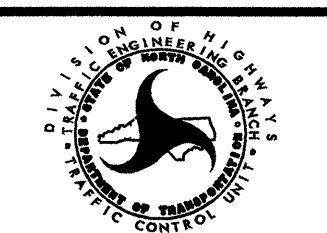
- BALLASTING SHALL BE ACHIEVED BY THE SAND BAG, TIRE-SIDEWALL BALLAST, OR PREFORMED WEIGHTED BASE BALLASTING METHODS. DO NOT PLACE BALLAST ON TOP OF THE DRUM.
- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-RETROREFLECTIVE DRUM SURFACES. SHOW THE LETTERS AND NUMBERS USING A NON-RETROREFLECTIVE COLOR AND NOT OVER 2" IN HEIGHT.

APPROVED: *MMM* DATE: *9/2/05*



**REPLACEMENT DETAIL FOR
RSD 1130.01**

SCALE: NONE
DATE: 4/02
DWG. BY: MMM
DESIGN BY: MMM
REVIEWED BY: MMM



REVISIONS	
11/02	
09/05	
CADD FILE	

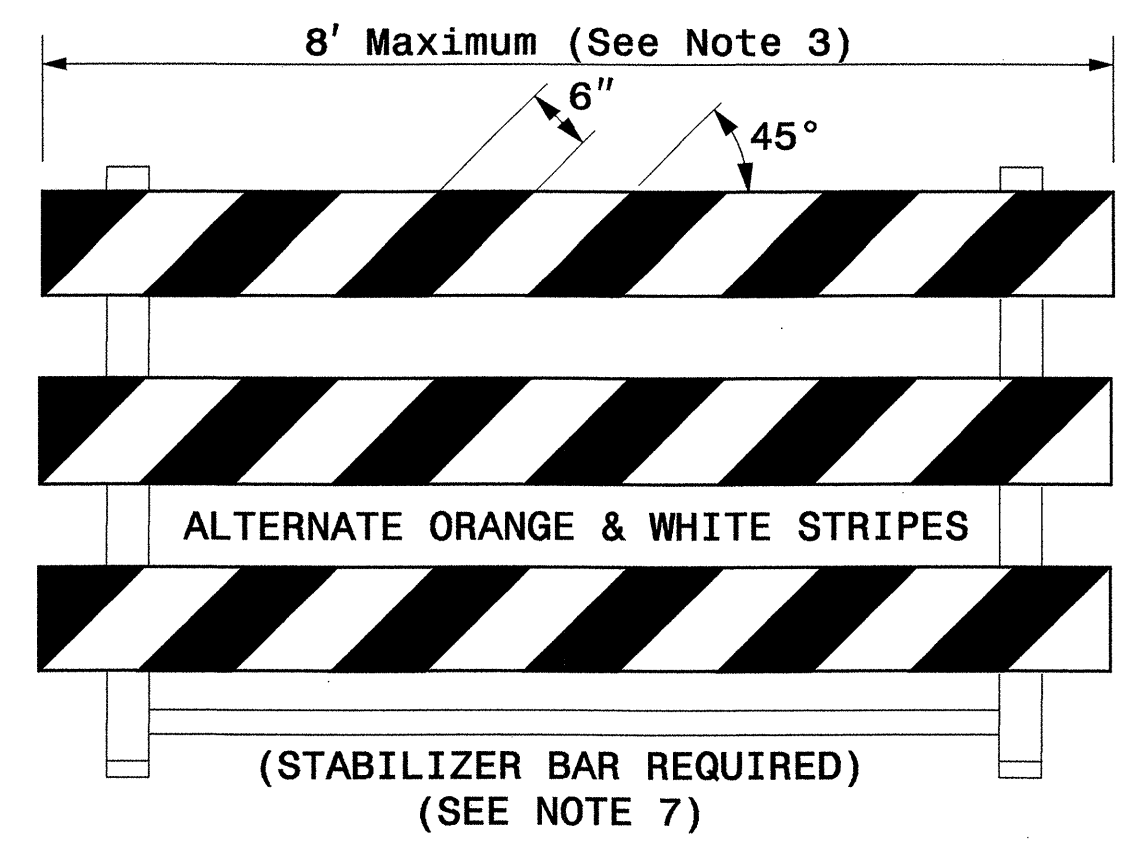
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

1-05

ENGLISH STANDARD DRAWING FOR
BARRICADES
 TYPE-III

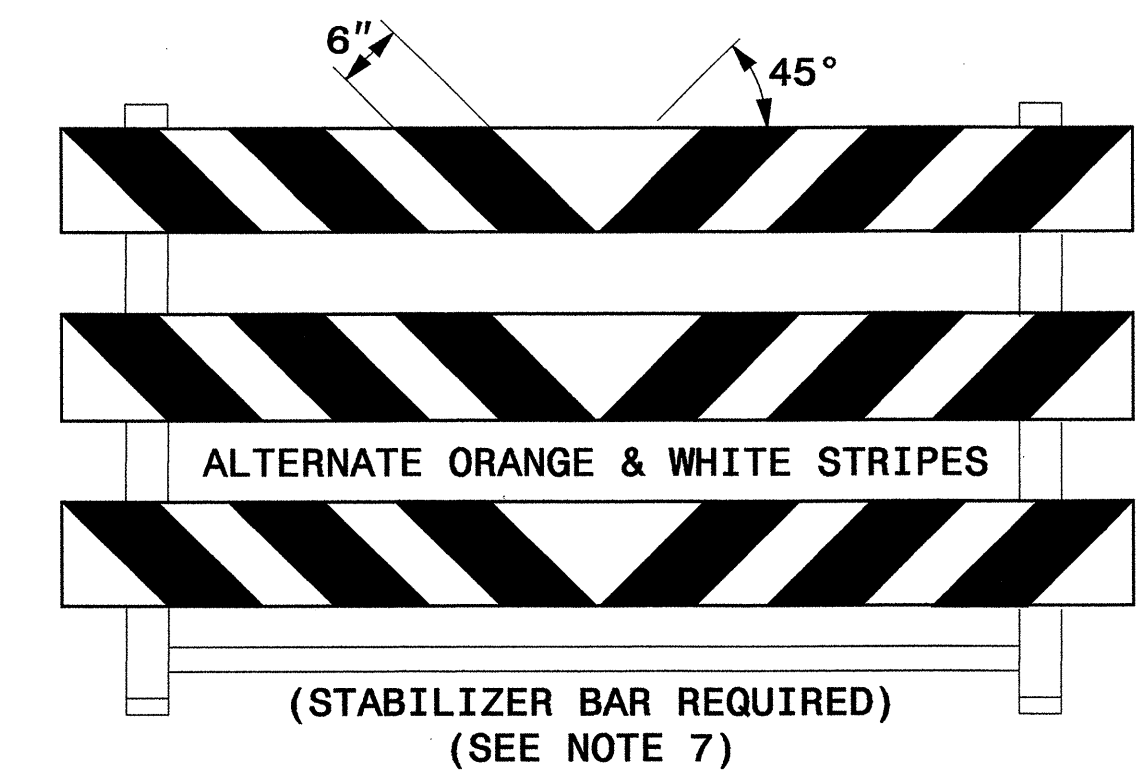
SHEET 1 OF 1
1145D01

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.

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

1-05

ENGLISH STANDARD DRAWING FOR
BARRICADES
 TYPE-III

SHEET 1 OF 1
1145D01

25-APR-2005 17:00
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 WJ0005 AT 11/10/05

APPROVED: <i>MMM</i> DATE: 5/16/05	REPLACEMENT DETAIL FOR RSD 1145.01							
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	DATE: 11/04							
	DESIGN BY: MMM							
	REVIEWED BY: MMM							
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REVISIONS								