

W-5001

CONTRACT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
CUMBERLAND COUNTY

STATE PROJECT REFERENCE NO.	SHEET NO.
W-5001	TCP-1

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
 - PORTABLE TRAFFIC SIGNAL
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
 - YELLOW/YELLOW PAVEMENT MARKER
 - CRYSTAL/RED PAVEMENT MARKER
 - PAVEMENT MARKING SYMBOLS

ROADWAY STANDARD DRAWINGS

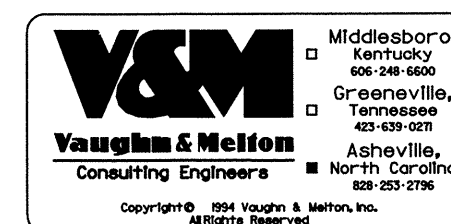
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.NO.	TITLE
1101.02	Temporary Lane Closures
1101.03	Temporary Road Closures
1101.04	Temporary Shoulder Closures
1101.11	Traffic Control Design Tables
1110.01	Stationary Work Zone Signs
1110.02	Portable Work Zone Signs
1115.01	Flashing Arrow Panels
1130.01	Drums
1135.01	Cones
1145.01	Barricades
1150.01	Flaggers Devices
1160.01	Temporary Crash Cushion
1165.01	Truck Mounted Impact Attenuator
1170.01	Portable Concrete Barrier
1205.01	Pavement Markings - Line Types and Offsets
1205.02	Pavement Markings - 2 Lane and Multilane Roadways
1205.04	Pavement Markings - Intersections
1205.05	Pavement Markings - Turn Lanes
1205.08	Pavement Markings - Symbols and Word Messages
1250.01	Pavement Marker Spacing
1251.01	Raised Pavement Markers - Temporary and Permanent
1264.01	Object Markers
1264.02	Placement of Object Markers

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2	GENERAL NOTES
TCP-3/TCP- 3A	PHASING
TCP-4 THRU TCP-16	TRAFFIC CONTROL DETAILS
TCP-17	DETAIL DRAWING FOR TWO-WAY UNDIVIDED WORK ZONE WARNING SIGNS
TCP-18	OFF-SITE DETOUR FOR SR 1818 (HAYFIELD ROAD)
PM-1	PAVEMENT MARKING SCHEDULE
PM-2 THRU PM-6	TEMPORARY PAVEMENT MARKING DETAILS
PM-7 THRU PM-12	FINAL PAVEMENT MARKING DETAILS

100 % SUBMITTAL



SCALE: NONE
DATE: MAR. 2008
DWG. BY: MAF
DESIGN BY: ACC
REVIEWED BY: RMS

APPROVED: *[Signature]*
DATE: 3/24/09

SEAL



PLAN PREPARED FOR: N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION SECTION

R. M. SCHULER, P.E. TRAFFIC CONTROL PROJECT ENGINEER
A. C. CARVER, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
MARLON FURGESON TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

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 UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
US13	MONDAY - FRIDAY 6:00 AM TO 9 AM & 4:00 PM TO 6:00 PM

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

- | | |
|-----------|---------|
| ROAD NAME | HOLIDAY |
| US 13 | HOLIDAY |
- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
 - FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 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 6:00 A.M. THURSDAY AND 6:00 A.M. MONDAY.
 - FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 9:00 A.M. TUESDAY.
 - FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.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 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
 - FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 A.M. TUESDAY.
 - FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 9:00 A.M. MONDAY.
 - FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
ALL ROADS	15 MIN.	SHIFTING TRAFFIC

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) 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.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) 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.
- G) 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.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- L) 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.
- M) PROVIDE PERMANENT SIGNING.
- N) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- O) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500' IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

- R) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

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

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

- S) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

- T) 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.
- U) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- V) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	RAISED

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

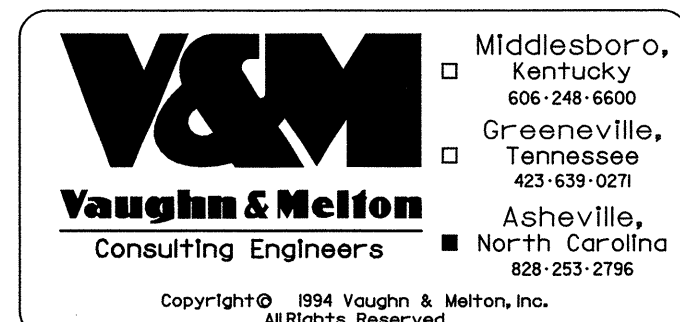
- Y) PLACE TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE. PLACE THE SECOND APPLICATION OF PAINT UPON SUFFICIENT DRYING TIME OF THE FIRST.

- Z) 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.

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

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

- CC) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION



	GENERAL NOTES	
	SCALE: NONE	REVISIONS
	DATE: FEB. 08	
	DWG. BY: MAF	
DESIGN BY: ACC		
REVIEWED BY: RMS		

PROJ. REFERENCE NO.	SHEET NO.
W-5001	TCP-3

PHASE I

STEP 1:

ERECT WORK ZONE ADVANCED WARNING SIGNS USING DETAIL DRAWINGS FOR WORK ZONE SIGNS. (SEE TCP-17)

STEP 2:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, CONSTRUCT -L- UP TO, BUT NOT INCLUDING FINAL SURFACE LAYER FROM:

- L- STA. 20+00 TO -L- STA. 126+44.70
- L- STA. 140+73.70 -L- TO STA. 172+58.21
- L- STA. 197+41.21 -L- TO STA. 246+51.76
- L- STA. 262+92.07 -L- TO STA. 382+90

NOTE: STEP 2 CAN BE PERFORMED SIMULTANEOUSLY WITH PHASE II OF AREAS 1, 2, AND 3

AREA 1

NOTE: AREA 1 PHASES II THROUGH IV MUST BE COMPLETED PRIOR TO BEGINNING AREA 2 PHASE IV CONSTRUCTION

PHASE II

STEP 1:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, CONSTRUCT THE NORTHSIDE -L- UP TO EXISTING PAVEMENT ELEVATION FROM:

- L- STA. 126+44.70 TO -L- STA 140+73.70

NOTE: ENSURE POSITIVE DRAINAGE

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, CONSTRUCT -Y1- UP TO, BUT NOT INCLUDING, THE FINAL SURFACE LAYER FROM:

- Y1- STA 18+85.76 TO -Y1- STA 20+20 (SEE SHEET TCP-4)

NOTE: FEATHER SURFACE FROM -Y1- STA 20+20 TO 20+37.14 (EXISTING PAVEMENT ELEVATION)

STEP 2:

USING ROADWAY STANDARD NO. 1101.02, SHEET 1 OF 9, AND FLAGGERS, REMOVE EXISTING MARKINGS AND MARKERS, AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FROM:

- L- STA 126+44.70 TO -L- STA 140+73.70, (SEE SHEET PM-2)
- Y1- STA 18+85.76 TO -Y1- STA 20+37.14, (SEE SHEET PM-2)

AND USING ROADWAY STANDARD NO 1101.02, SHEET 1 OF 9, AND FLAGGERS, SHIFT TRAFFIC TO THE 2-LANE, 2-WAY TRAFFIC PATTERN AS SHOWN ON SHEET PM-2

STEP 3:

USING ROADWAY STANDARD NO. 1101.03, INSTALL ROAD CLOSURE SIGNS AND TEMPORARY DETOUR SIGNING PER TCP-18 FOR THE SOUTHSIDE OF -Y1- AND CLOSE SOUTHSIDE -Y1- FROM:

- Y1- STA 20+70 TO -Y1- STA 23+85, (SEE SHEET TCP-18)

PHASE III

STEP 1:

USING ROADWAY STANDARD NO. 1101.02, SHEET 1 OF 9, AND FLAGGERS, INSTALL TEMPORARY PORTABLE CONCRETE BARRIER AND CRASH CUSHIONS ON THE SOUTHSIDE OF -L- FROM:

- L- STA 130+15 TO -L- STA 137+00, (SEE SHEET TCP-9)

STEP 2:

CONSTRUCT -Y1- AND THE SOUTHSIDE -L- UP TO, BUT NOT INCLUDING, THE FINAL SURFACE LAYER FROM:

- Y1- STA 20+70 TO -Y1- STA 23+85
- L- STA. 126+44.70 TO -L- STA 140+73.70 (SEE SHEET TCP-9)

NOTE: FROM -Y1- STA 23+50 TO -Y1- STA 23+85 USE ROADWAY STANDARD NO. 1101.02, SHEET 1 OF 9, AND FLAGGERS

PROJECT PHASING

PHASE IV

STEP 1:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, REMOVE PORTABLE CONCRETE BARRIER AND CRASH CUSHIONS, BUT RETAIN ROAD CLOSURE OF -Y1-

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, WEDGE -L- UP TO, BUT NOT INCLUDING, THE FINAL SURFACE LAYER FROM:

- L- STA. 126+44.70 TO -L- STA 140+73.70
- Y1- STA. 20+20 TO 20+37.14

STEP 2:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FROM:

- Y1- STA 20+70 TO STA 23+85 (SEE SHEET PM-7)
- L- STA. 126+44.70 TO -L- STA 140+73.70 (SEE SHEET PM-7)

AND USING ROADWAY STANDARD NO 1101.02, SHEET 1 OF 9, AND FLAGGERS, SHIFT TRAFFIC TO THE 2-LANE, 2-WAY TRAFFIC PATTERN AS SHOWN ON SHEET PM-7

STEP 3:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, REMOVE DETOUR SIGNING AND ROAD CLOSURE SIGNS AND OPEN -Y1- TO TRAFFIC

AREA 2

PHASE II

STEP 1:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, CONSTRUCT -Y3- AND THE NORTHSIDE OF -L- UP TO EXISTING PAVEMENT ELEVATION FROM:

- Y3- STA 12+50 TO -Y3- STA 14+77.63
- L- STA. 172+58.21 TO -L- STA 197+41.21 (SEE SHEETS TCP-5 AND TCP-6)

NOTE: ENSURE POSITIVE DRAINAGE

STEP 2:

USING ROADWAY STANDARD NO. 1101.02, SHEET 1 OF 9, AND FLAGGERS, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FROM:

- Y3- STA 12+50 TO -Y3- STA 14+77.63
- L- STA. 172+58.21 TO STA -L- 197+41.21 (SEE SHEETS PM-3 AND PM-4)

AND USING ROADWAY STANDARD NO 1101.02, SHEET 1 OF 9, AND FLAGGERS, SHIFT TRAFFIC TO THE 2-LANE, 2-WAY TRAFFIC PATTERN AS SHOWN ON SHEETS PM-3 AND PM-4

PHASE III

STEP 1:

USING ROADWAY STANDARD NO. 1101.03, INSTALL ROAD CLOSURE SIGNS AND TEMPORARY DETOUR SIGNING PER TCP-10 AND CLOSE SR1821 (KENNEL ROAD) (LOCAL TRAFFIC ONLY) FROM:

- L- (US 13) TO SR1826 (WADE-STEDMAN RD) (SEE SHEET TCP-10)

STEP 2:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, CONSTRUCT THE SOUTHSIDE -L- UP TO, BUT NOT INCLUDING, THE FINAL SURFACE LAYER FROM:

- L- STA. 172+58.21 TO -L- STA 197+41.21 (SEE SHEETS TCP-11 AND TCP-13)

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, CONSTRUCT -Y2- AND -Y6- UP TO, BUT NOT INCLUDING, THE FINAL SURFACE LAYER FROM:

- Y2- STA 10+18 TO -Y2- STA 25+00
- Y6- STA 10+25 TO -Y6- STA 12+50 (SEE SHEET TCP-11 AND TCP-12)

REMOVE AND SCARIFY EXISTING SR1821 (KENNEL ROAD) FROM -L- TO -Y2- (SEE SHEETS TCP-11 AND TCP-12)

PHASE IV

STEP 1:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, WEDGE -Y3- AND -L- UP TO, BUT NOT INCLUDING, THE FINAL SURFACE LAYER FROM:

- L- STA. 172+58.21 TO -L- STA 197+41.21
- Y3- STA. 12+50 TO -Y3- STA 14+77.63

STEP 2:

USING ROADWAY STANDARD NO. 1101.02, SHEET 1 OF 9, AND FLAGGERS, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FROM:

- Y6- STA 10+25 TO -Y6- STA 12+50
- Y2- STA 10+18 TO -Y2- STA 25+00
- L- STA. 171+00 TO -L- STA 197+41.21
- Y3- STA. 12+50 TO -Y3- STA 14+77.63 (SEE SHEETS PM-8, PM-9, & PM-10)

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, INSTALL PROPOSED SIGNING PER SHEET TCP-16

STEP 3:

REMOVE ROAD CLOSURE SIGNS FOR -Y6- AT -Y2- AND USING ROADWAY STANDARD NO 1101.02, SHEET 1 OF 9, AND FLAGGERS, SHIFT TRAFFIC ONTO -Y2- AND -Y6- FROM:

- Y2- STA 10+18 TO -Y2- STA 25+00
- Y6- STA 10+25 TO -Y6- STA 12+50

USING ROADWAY STANDARD NO. 1101.03, INSTALL ROAD CLOSURE SIGNS PER TCP-16 AND CLOSE, REMOVE, AND SCARIFY EXISTING SR 1826 (WADE-STEDMAN RD.) FROM:

- Y2- STA 22+24 TO ASPHALT PARKING LOT
- L- STA 191+00± TO 192+50±

Middlesboro, Kentucky 606-248-6600
Greeneville, Tennessee 423-639-0271
Asheville, North Carolina 828-253-2796
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APPROVED:	DATE: 2/21/19	PHASING				
SEAL 	SCALE: NONE					
	DATE: FEB. 08	REVISIONS				
	DWG. BY: MAF					
	DESIGN BY: ACC					
REVIEWED BY: RMS				CADD FILE: W-5001_TC_TCP-03.dgn		

AREA 3

PHASE V

PHASE II

STEP 1:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, CONSTRUCT -Y5- AND THE NORTHSIDE OF -L- UP TO EXISTING PAVEMENT ELEVATION FROM:

- Y5- STA 16+10 TO -Y5- STA 18+29.30
- L- STA. 246+51.76 TO -L- STA 262+92.07
- (SEE SHEETS TCP-7 AND TCP-8)

NOTE: ENSURE POSITIVE DRAINAGE

STEP 2:

USING ROADWAY STANDARD NO. 1101.02, SHEET 1 OF 9, AND FLAGGERS, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FROM:

- Y5- STA. 16+10 TO -Y5- STA 18+29.30
- L- STA. 246+51.76 TO -L- STA 262+92.07
- (SEE SHEETS PM-5 AND PM-6)

AND USING ROADWAY STANDARD NO 1101.02, SHEET 1 OF 9, AND FLAGGERS, SHIFT TRAFFIC TO THE 2-LANE, 2-WAY TRAFFIC PATTERN AS SHOWN ON SHEETS PM-5 AND PM-6

PHASE III

STEP 1:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, CONSTRUCT -Y4- AND THE SOUTHSIDE OF -L- UP TO, BUT NOT INCLUDING, THE FINAL SURFACE LAYER FROM:

- L- STA. 246+51.76 TO -L- STA 262+92.07
- Y4- STA 10+18 TO -Y4- STA 12+25
- (SEE SHEETS TCP-14 AND TCP-15)

PHASE IV

STEP 1:

USING ROADWAY STANDARD NO. 1101.02 SHEET 1 OF 9, AND FLAGGERS, WEDGE -L- AND -Y5- UP TO, BUT NOT INCLUDING, THE FINAL SURFACE LAYER FROM:

- L- STA. 246+51.76 TO -L- STA 262+92.07
- Y5- STA 16+10 TO -Y5- STA 18+29.30

STEP 2:

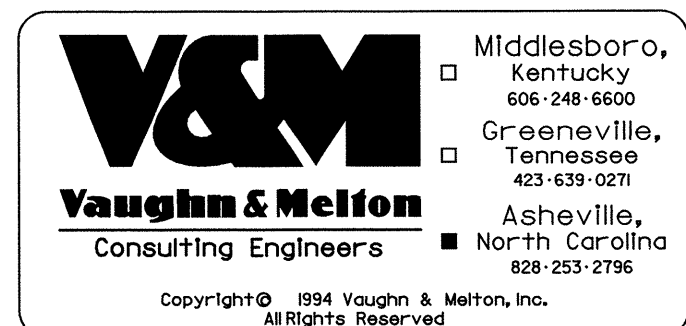
USING ROADWAY STANDARD NO. 1101.02, SHEET 1 OF 9, AND FLAGGERS, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) FROM:

- L- STA. 246+51.76 TO -L- STA 262+92.07
- Y4- STA 10+18 TO -Y4- STA 12+25
- Y5- STA 16+10 TO -Y5- STA 18+29.30
- (SEE SHEETS PM-11 AND PM-12)

AND USING ROADWAY STANDARD NO 1101.02, SHEET 1 OF 9, AND FLAGGERS, SHIFT TRAFFIC TO THE 2-LANE, 2-WAY TRAFFIC PATTERN AS SHOWN ON SHEETS PM-11 AND PM-12

STEP 1:

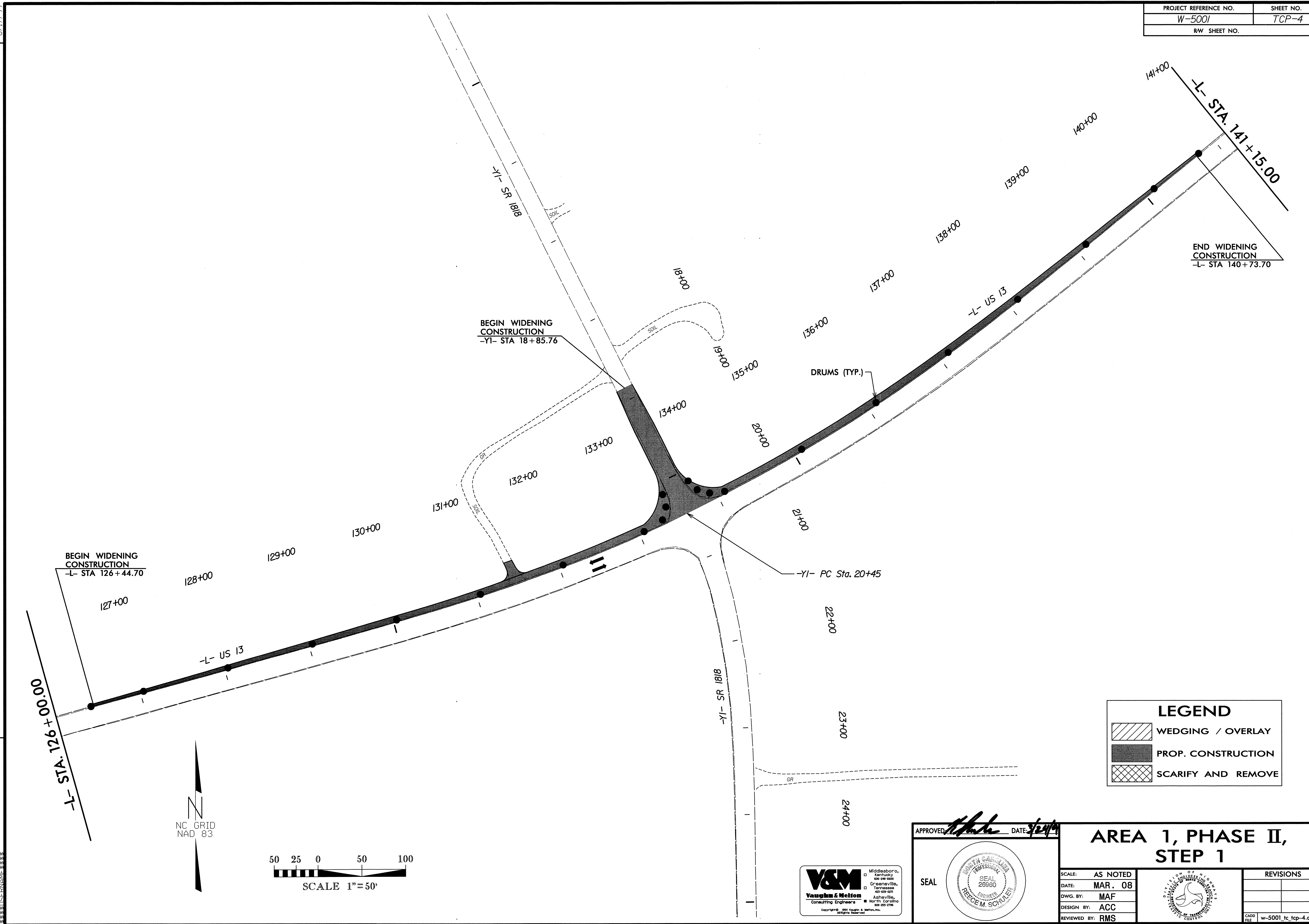
USING ROADWAY STANDARD NO. 1101.02, SHEET 1 OF 9, AND FLAGGERS, PLACE THE FINAL LAYER OF SURFACE COURSE AND THE FINAL PAVEMENT MARKINGS (THERMOPLASTIC) AND MARKERS ON -L-, -Y1-, -Y2-, -Y3-, -Y4-, -Y5-, AND -Y6-. (SEE SHEETS PM-7 THRU PM-12)



APPROVED: <i>[Signature]</i>	DATE: <i>[Date]</i>	PHASING	
	SCALE: NONE		REVISIONS
	DATE: FEB. 08		
	DWG. BY: MAF		
	DESIGN BY: ACC		
REVIEWED BY: RMS			
		<small>CADD FILE W-5001_TC_TCP-03.dgn</small>	

8/17/99

REVISIONS

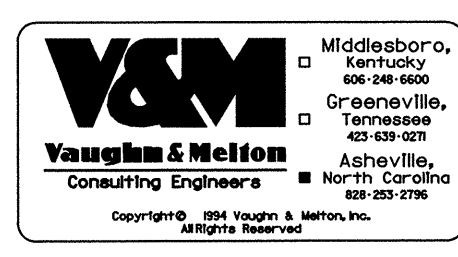
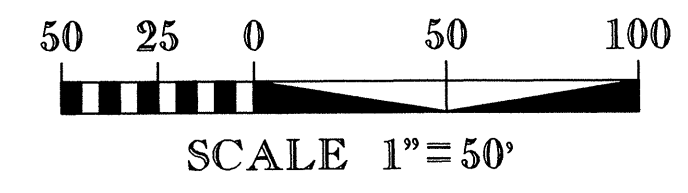


BEGIN WIDENING CONSTRUCTION
-L- STA 126+44.70

BEGIN WIDENING CONSTRUCTION
-YI- STA 18+85.76

END WIDENING CONSTRUCTION
-L- STA 140+73.70

LEGEND	
	WEDGING / OVERLAY
	PROP. CONSTRUCTION
	SCARIFY AND REMOVE

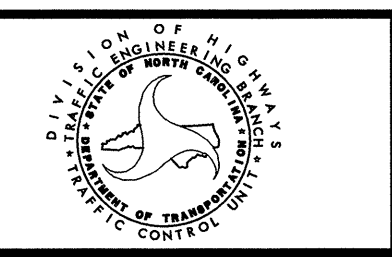


APPROVED: *[Signature]* DATE: 3/24/08

SEAL:

AREA 1, PHASE II, STEP 1

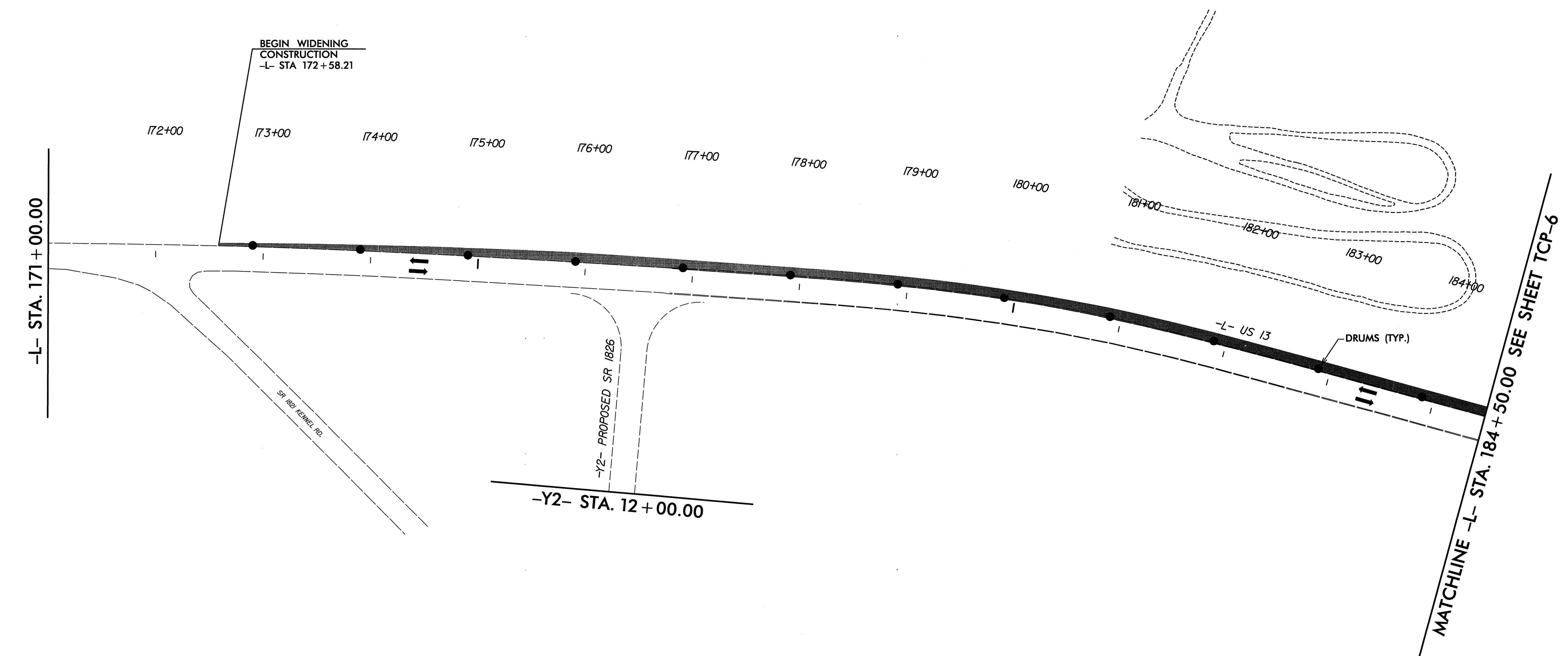
SCALE: AS NOTED
DATE: MAR. 08
DWG. BY: MAF
DESIGN BY: ACC
REVIEWED BY: RMS



NO.	DESCRIPTION	DATE

8/17/99

PROJECT REFERENCE NO. W-5001	SHEET NO. TCP-5
RW SHEET NO.	

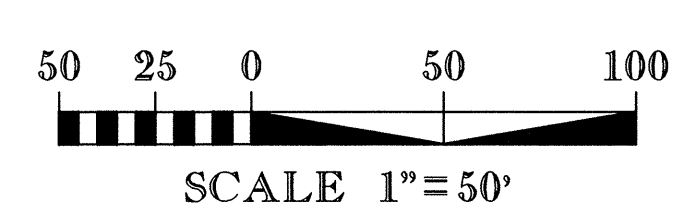


LEGEND	
	WEDGING / OVERLAY
	PROP. CONSTRUCTION
	SCARIFY AND REMOVE

APPROVED: *[Signature]* DATE: 3/29/99

AREA 2, PHASE II, STEP 1

SCALE: AS NOTED		REVISIONS
DATE: MAR. 08		
DWG. BY: MAF		
DESIGN BY: ACC		
REVIEWED BY: RMS		CADD FILE: w-5001_tc_tcp-5.dgn



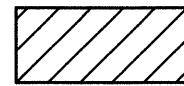


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Greenville, Tennessee 423-639-8278
Asheville, North Carolina 828-253-8755

SYSTEMS DESIGN

...TCPW-5001_TC_TCP-5.dgn 12/18/2008 3:15:15 PM

LEGEND

	WEDGING / OVERLAY
	PROP. CONSTRUCTION
	SCARIFY AND REMOVE



MATCHLINE -L- STA. 184 + 50.00 SEE SHEET TCP-5

185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00 1930+00 194+00 195+00 196+00 197+00 198+00

BEGIN WIDENING CONSTRUCTION
-Y3- STA 12+50

END WIDENING CONSTRUCTION
-L- STA 197+41.21

DRUMS (TYP.)

-L- US 13

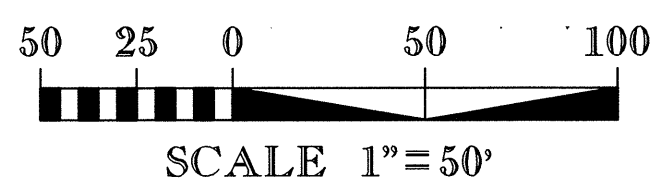
-L- STA. 198 + 50.00

SR 1826 WADE-STEDMAN ROAD 21' BST

SR 1826 WADE-STEDMAN ROAD 21' BST

REVISIONS

8/17/99



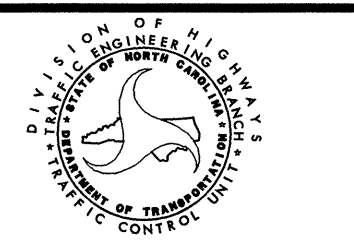
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Middlesboro, Kentucky
Greenville, Tennessee
Asheville, North Carolina

APPROVED: *[Signature]* DATE: 3/24/99

SEAL

AREA 2, PHASE II, STEP 1

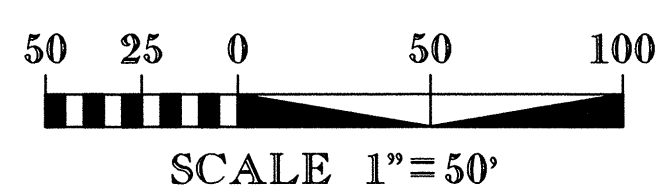
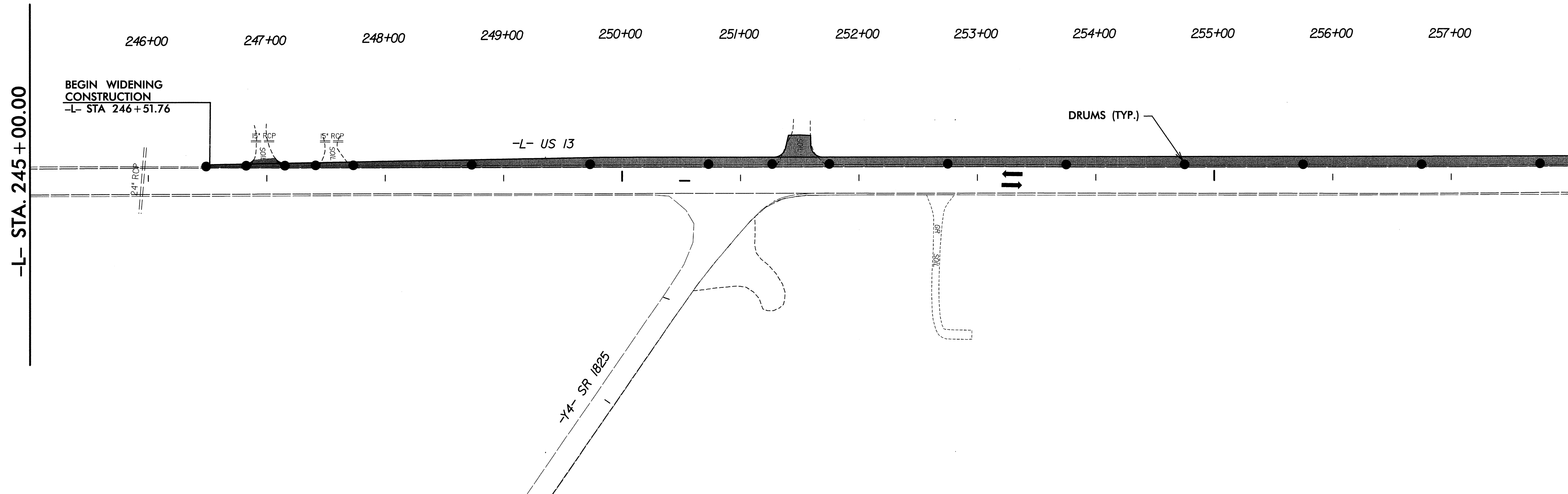
SCALE: AS NOTED
DATE: MAR. 08
DWG. BY: MAF
DESIGN BY: ACC
REVIEWED BY: RMS



NO.	DESCRIPTION

8/17/99

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LEGEND	
	WEDGING / OVERLAY
	PROP. CONSTRUCTION
	SCARIFY AND REMOVE

APPROVED: *[Signature]* DATE: 3/24/08

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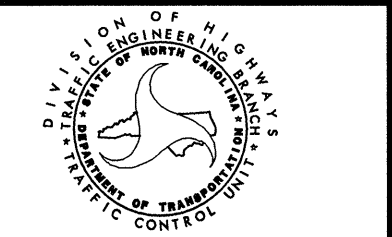
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AREA 3, PHASE II, STEP 1

SCALE:	AS NOTED
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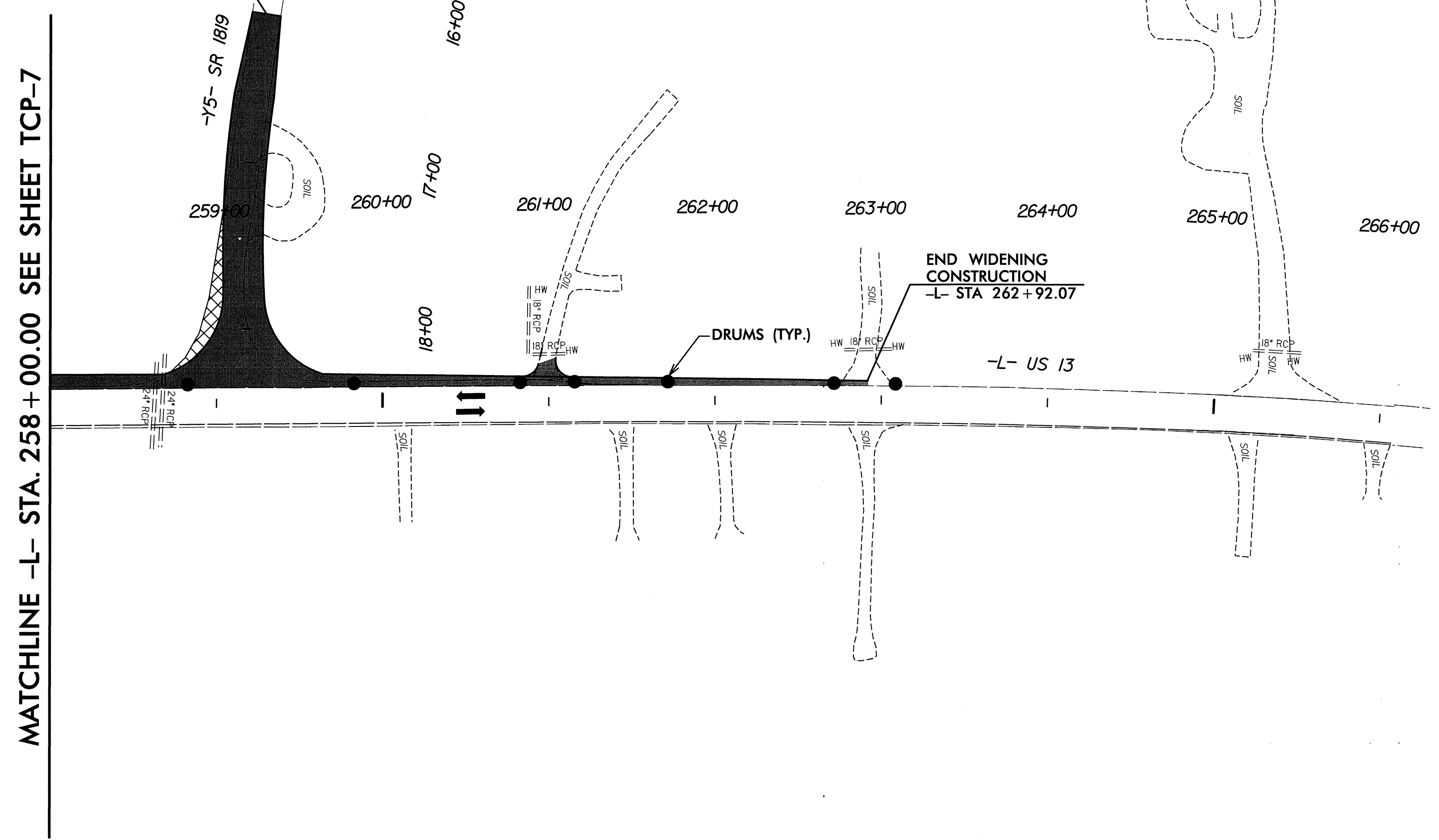
REVISIONS	

CADD FILE w-5001_tc_tcp-7.dgn

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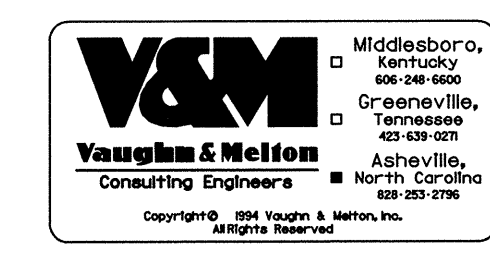
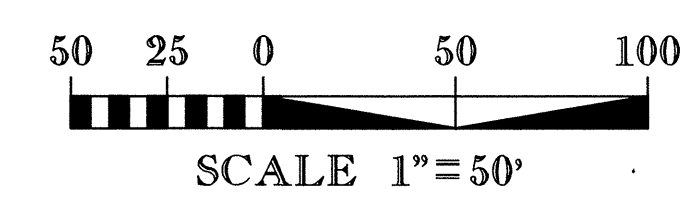
BEGIN CONSTRUCTION
-Y5- STA 16+10.00

MATCHLINE -L- STA. 258 + 00.00 SEE SHEET TCP-7



REVISIONS

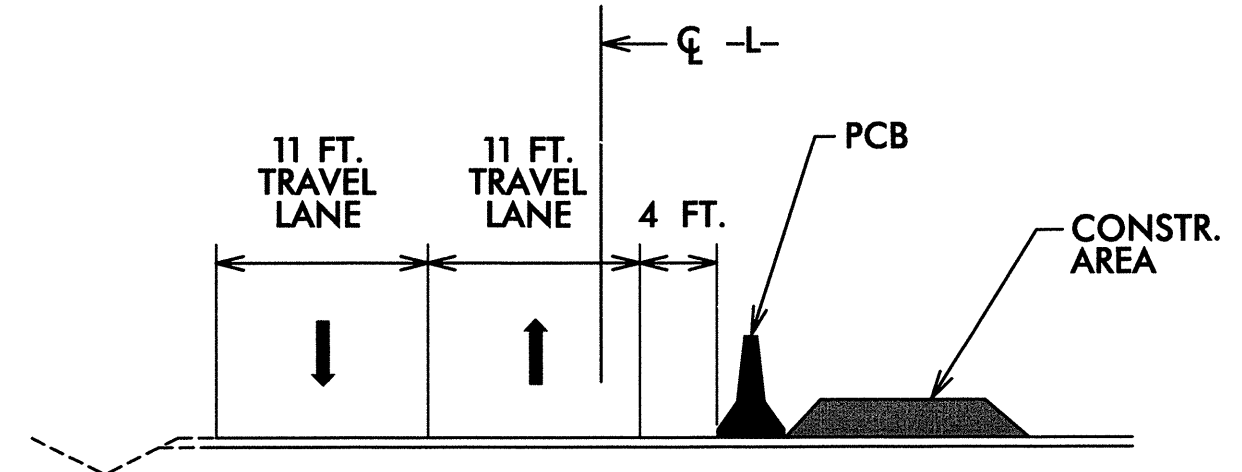
LEGEND	
	WEDGING / OVERLAY
	PROP. CONSTRUCTION
	SCARIFY AND REMOVE



APPROVED: *[Signature]* DATE: *3/21/09*

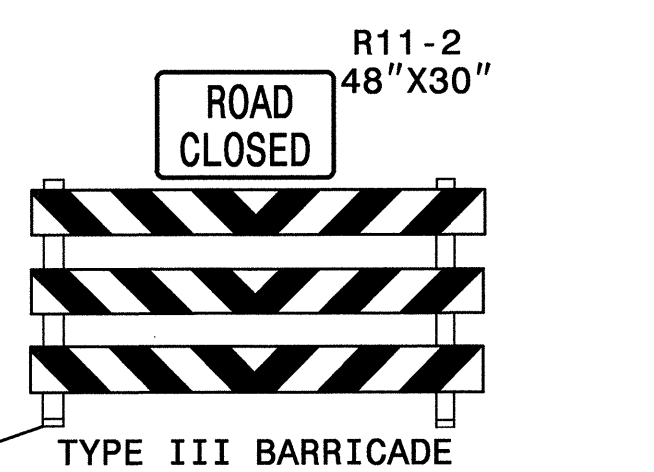
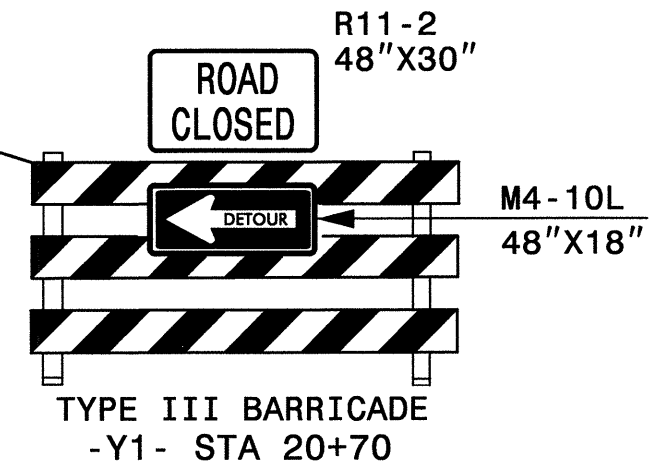
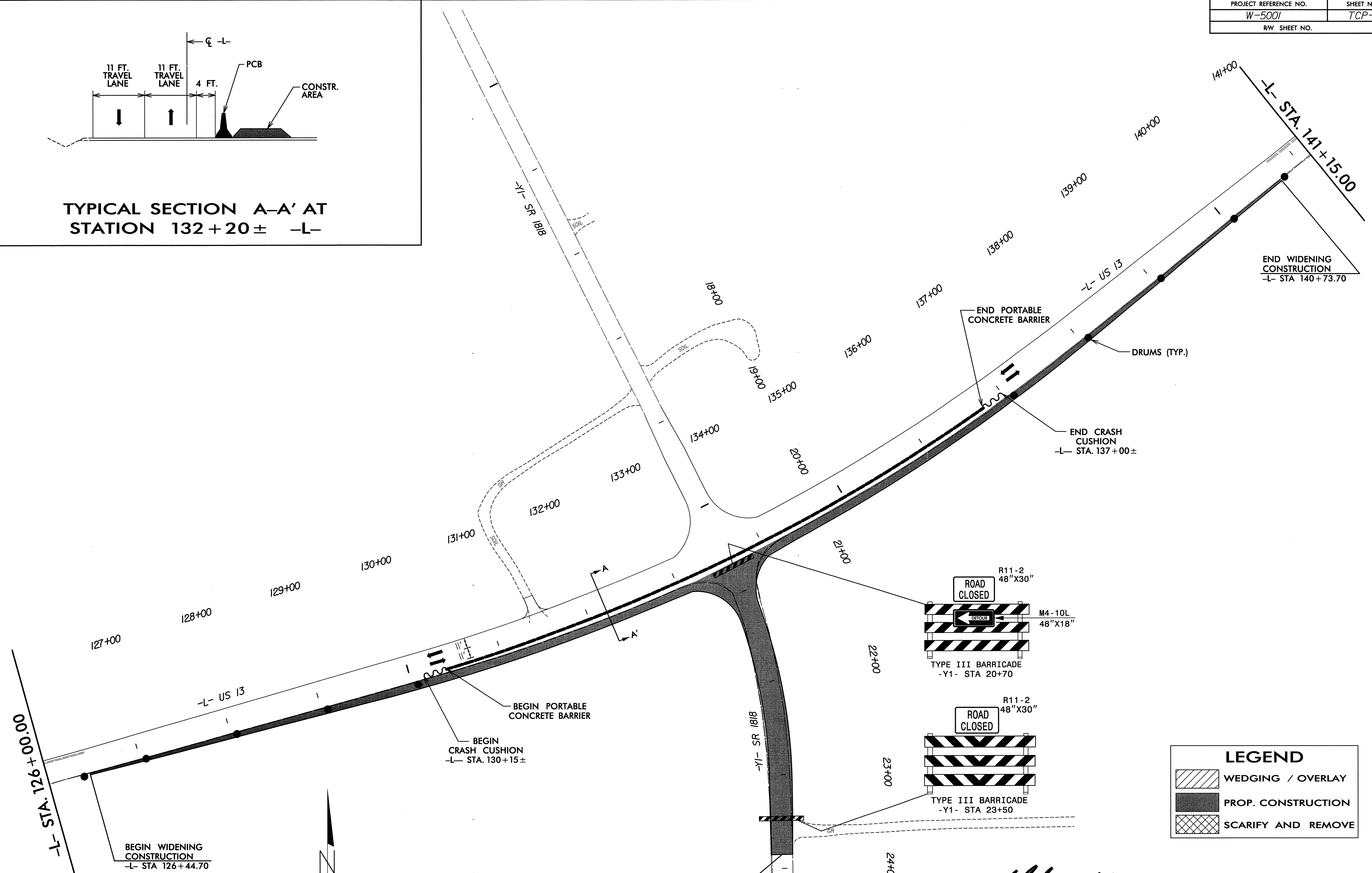
SEAL

AREA 3, PHASE II, STEP 1			REVISIONS
SCALE:	AS NOTED		
DATE:	MAR. 08		
DESIGN BY:	ACC		
REVIEWED BY:	RMS		
<small>CADD FILE: w-5001_fc_tcp-8.dgn</small>			



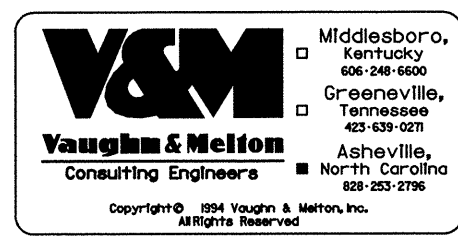
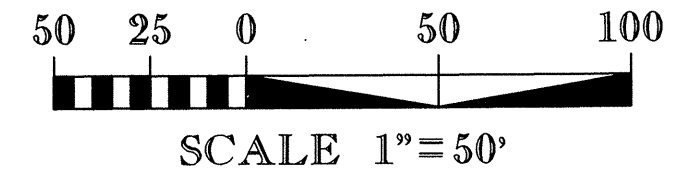
TYPICAL SECTION A-A' AT STATION 132+20± -L-

REVISIONS



LEGEND	
	WEDGING / OVERLAY
	PROP. CONSTRUCTION
	SCARIFY AND REMOVE

NC GRID NAD 83



APPROVED: *[Signature]* DATE: 3/24/19

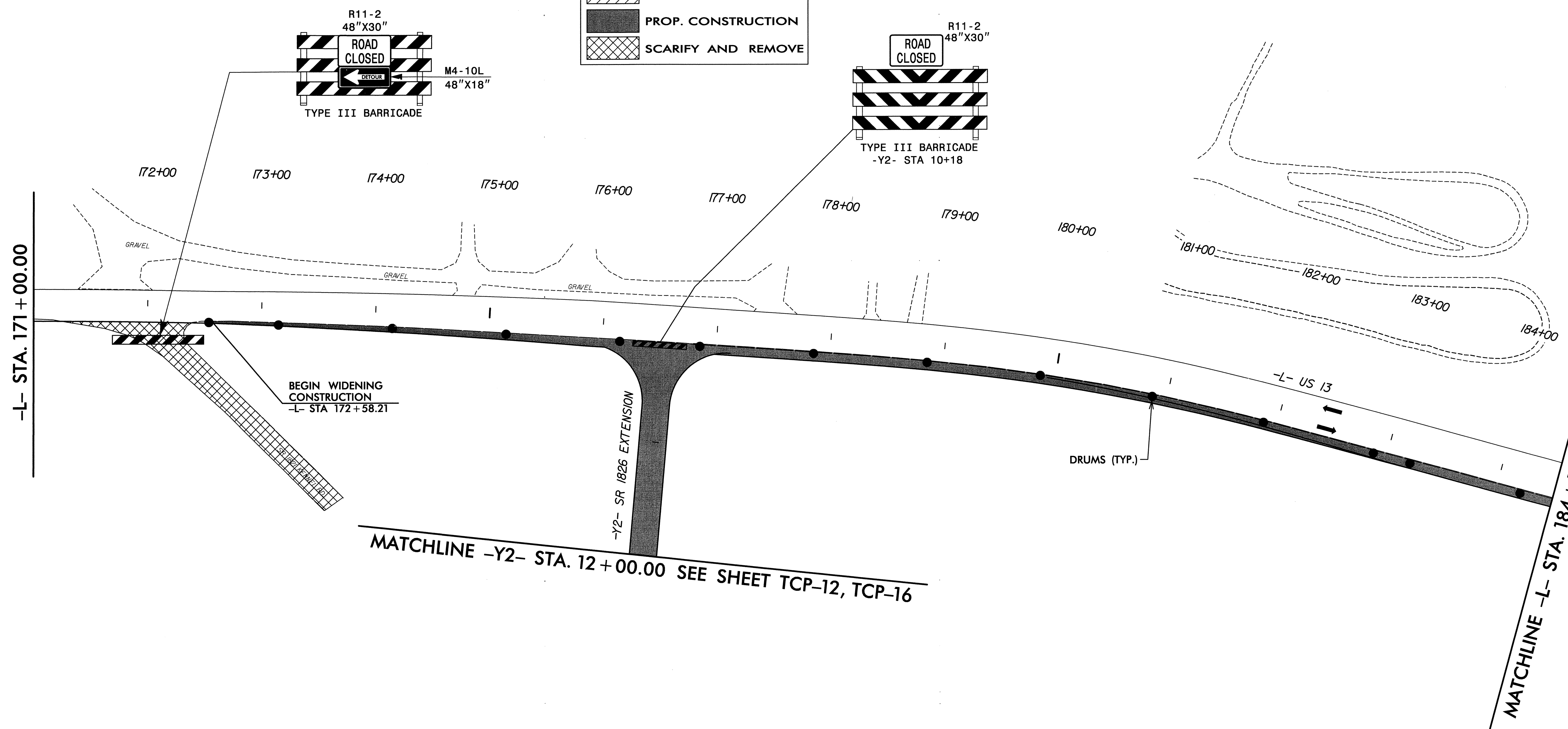
SEAL:

AREA 1, PHASE III, STEPS 1 & 2

SCALE: AS NOTED		REVISIONS
DATE: MAR. 08		
DWG. BY: MAF		
DESIGN BY: ACC		
REVIEWED BY: RMS		

LEGEND

- WEDGING / OVERLAY
- PROP. CONSTRUCTION
- SCARIFY AND REMOVE



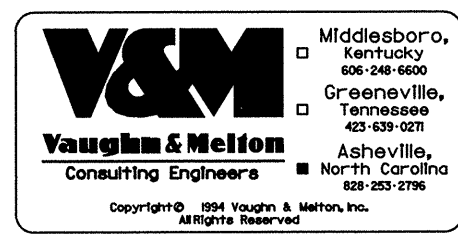
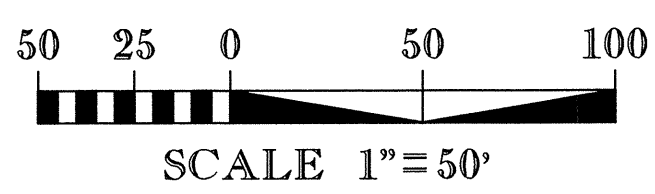
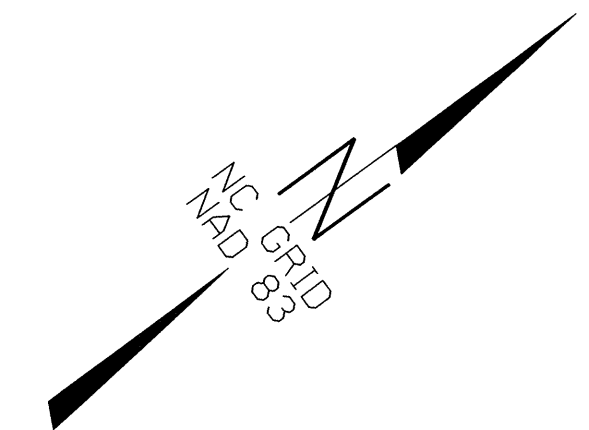
-L- STA. 171 + 00.00

BEGIN WIDENING CONSTRUCTION
-L- STA 172 + 58.21

MATCHLINE -Y2- STA. 12 + 00.00 SEE SHEET TCP-12, TCP-16

MATCHLINE -L- STA. 184 + 50.00 SEE SHEET TCP-13

REVISIONS

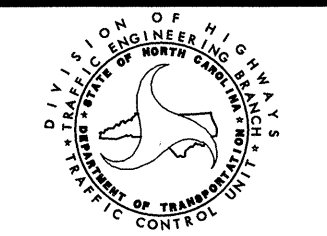


APPROVED: *[Signature]* DATE: 3/24/08

SEAL

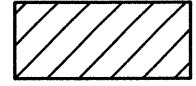


AREA 2, PHASE III, STEP 2

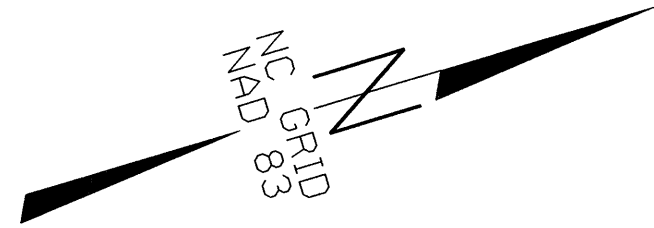
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DATE: MAR. 08
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DESIGN BY: ACC
REVIEWED BY: RMS



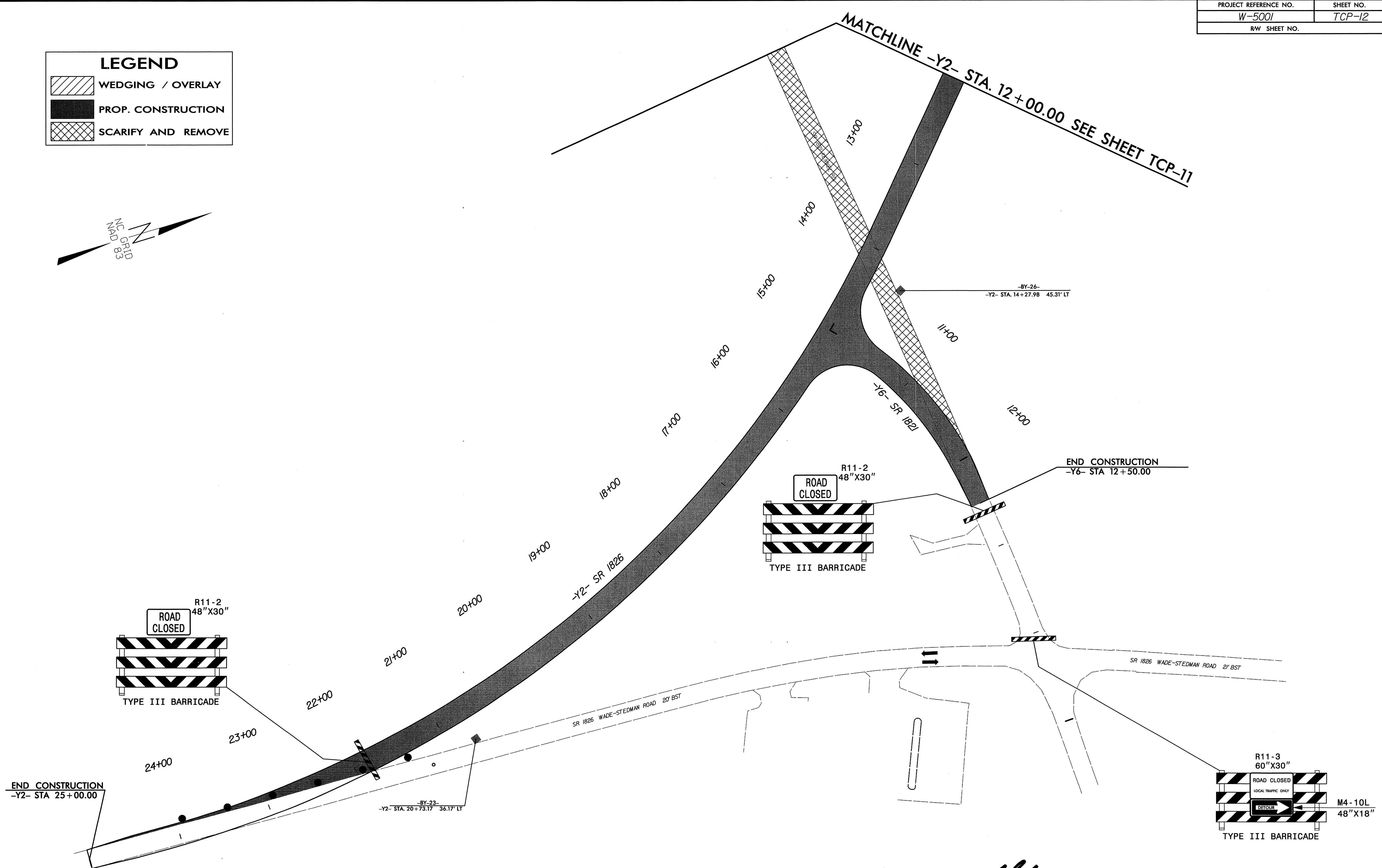
REVISIONS	

LEGEND

-  WEDGING / OVERLAY
-  PROP. CONSTRUCTION
-  SCARIFY AND REMOVE

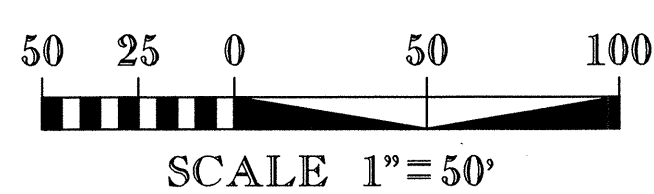


REVISIONS



END CONSTRUCTION
-Y2- STA 25+00.00

END CONSTRUCTION
-Y6- STA 12+50.00

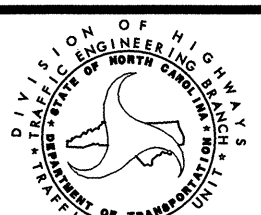


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APPROVED: *[Signature]* DATE: 3/24/08

SEAL: *[Professional Engineer Seal]*

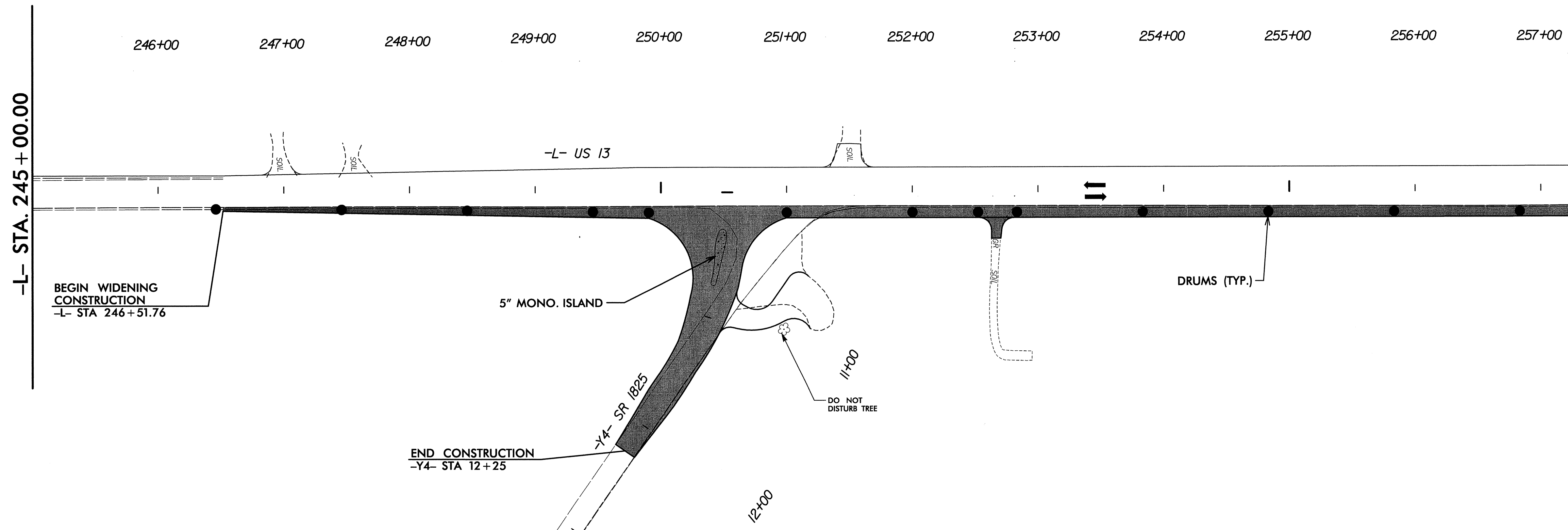
AREA 2, PHASE III, STEP 1

SCALE: AS NOTED		REVISIONS
DATE: MAR. 08		
DWG. BY: MAF		
DESIGN BY: ACC		
REVIEWED BY: RMS		

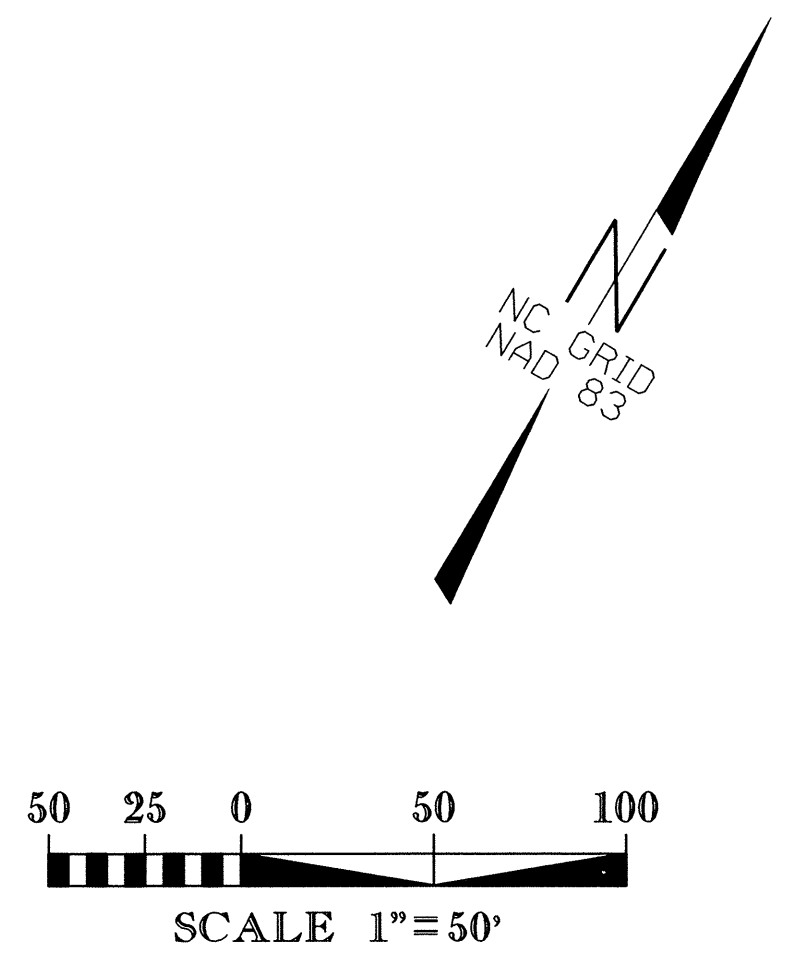
CADD FILE: w-5001_fc_tcp-12.dgn

8/17/99

REVISIONS



MATCHLINE -L- STA. 258 + 00.00 SEE SHEET TCP-15



LEGEND	
	WEDGING / OVERLAY
	PROP. CONSTRUCTION
	SCARIFY AND REMOVE

APPROVED *[Signature]* DATE 3/24/08

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AREA 3, PHASE III, STEP 1

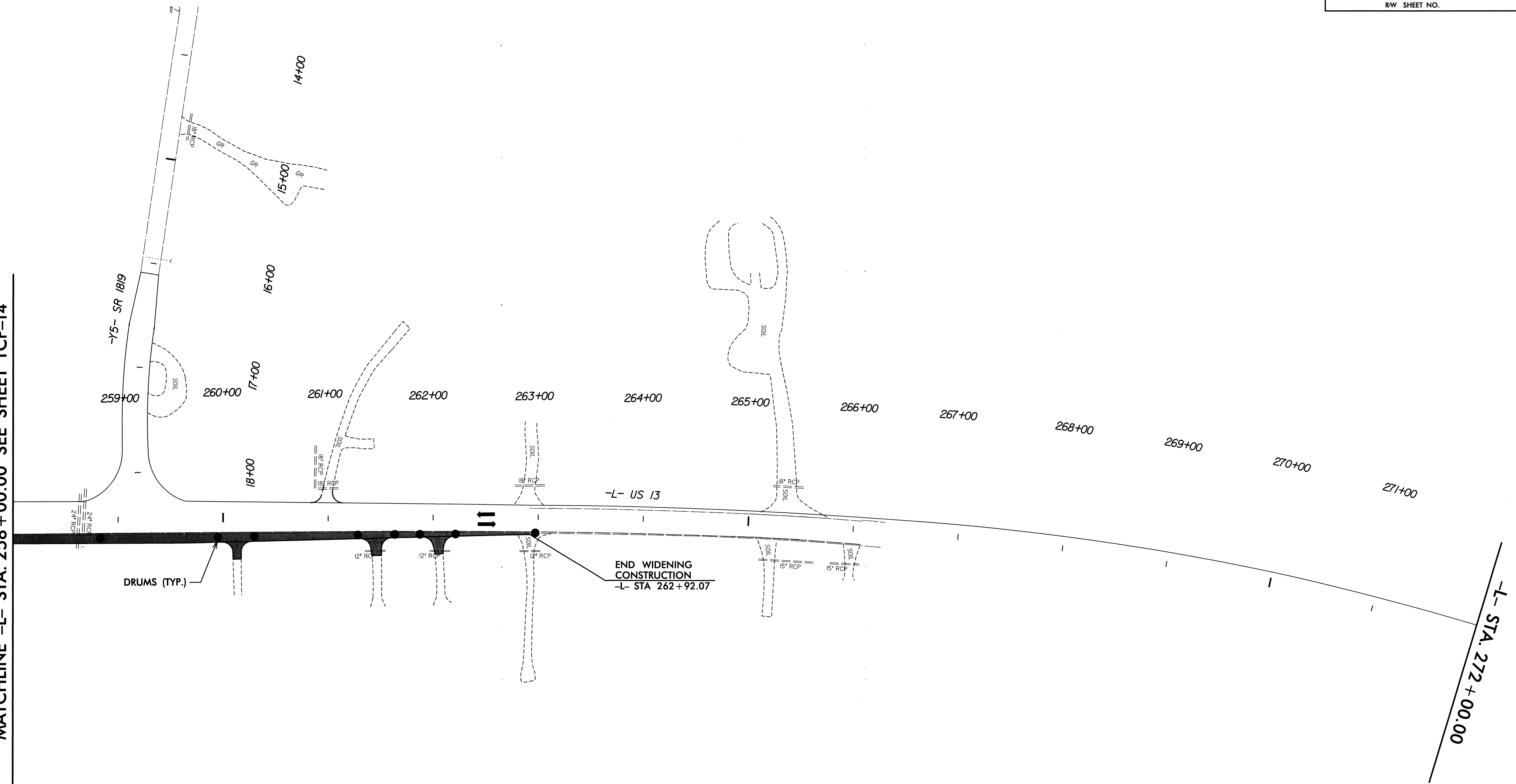
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DATE: MAR. 08		
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DESIGN BY: ACC		
REVIEWED BY: RMS		

CADD FILE: w-5001_fc_tcp-14.dgn

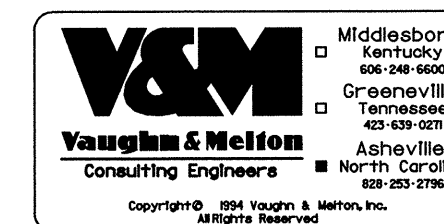
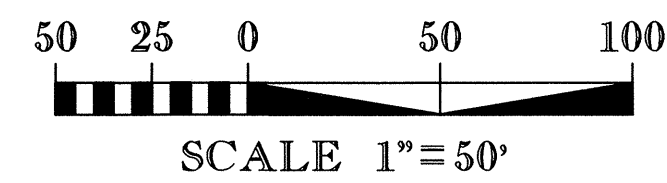
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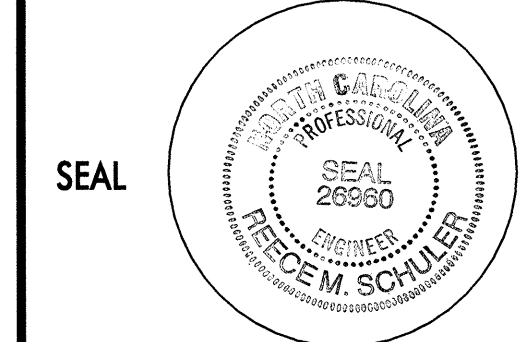
MATCHLINE -L- STA. 258 + 00.00 SEE SHEET TCP-14



LEGEND	
	WEDGING / OVERLAY
	PROP. CONSTRUCTION
	SCARIFY AND REMOVE

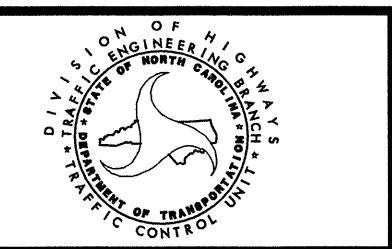


APPROVED: *[Signature]* DATE: 3/29/99

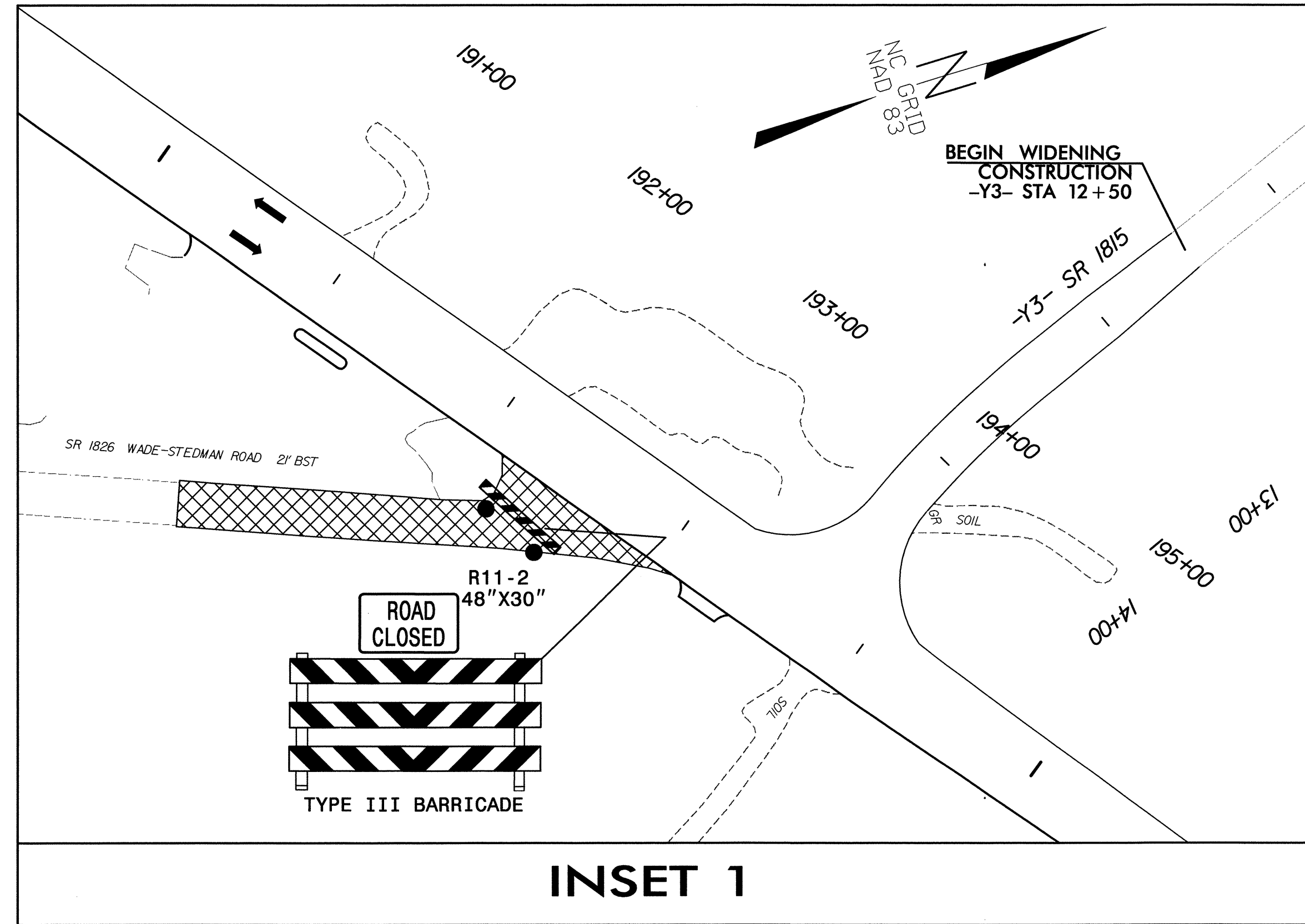


AREA 3, PHASE III, STEP 1

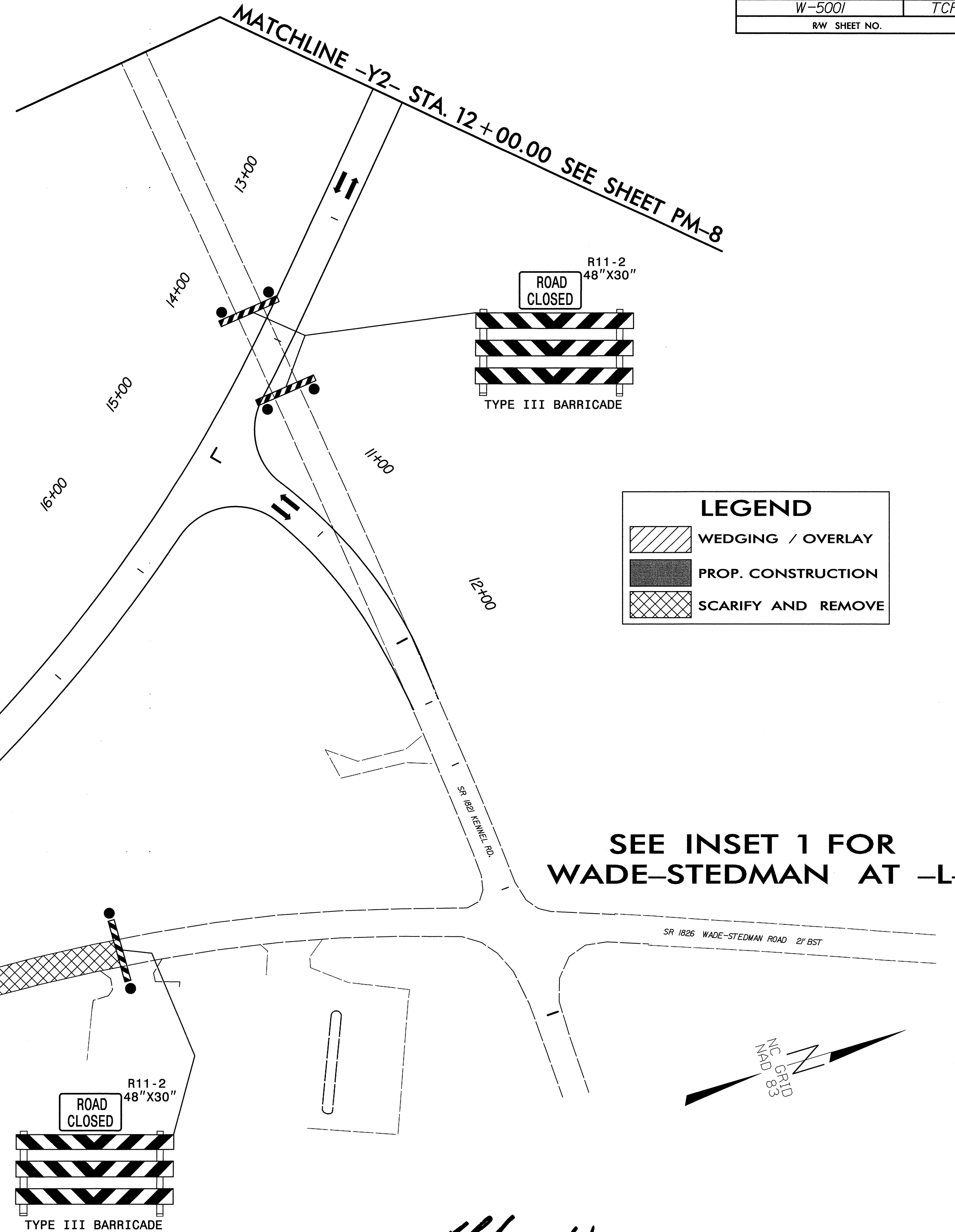
SCALE: AS NOTED
 DATE: MAR. 08
 DWG. BY: MAF
 DESIGN BY: ACC
 REVIEWED BY: RMS



REVISIONS	



INSET 1



SEE INSET 1 FOR WADE-STEDMAN AT -L-

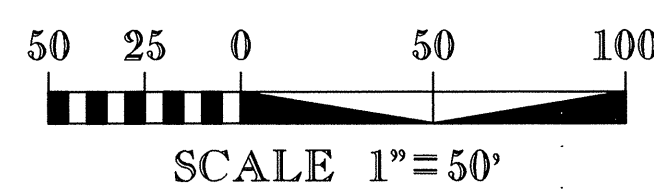
LEGEND

- WEDGING / OVERLAY
- PROP. CONSTRUCTION
- SCARIFY AND REMOVE

END CONSTRUCTION
-Y2- STA 25+00.00

BEGIN WIDENING
CONSTRUCTION
-Y3- STA 12+50

REVISIONS



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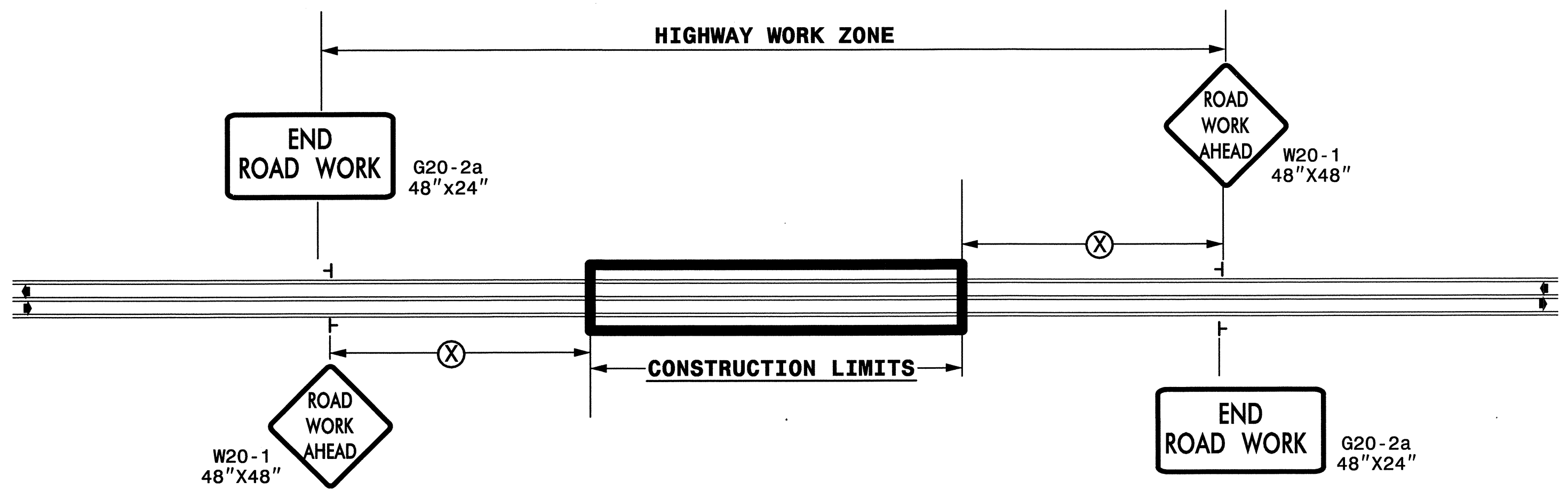
AREA 2, PHASE IV, STEP 2

SCALE: AS NOTED		REVISIONS
DATE: MAR. 08		
DWG. BY: MAF		
DESIGN BY: ACC		
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CADD FILE: w-5001_tc_tcp-16.dgn

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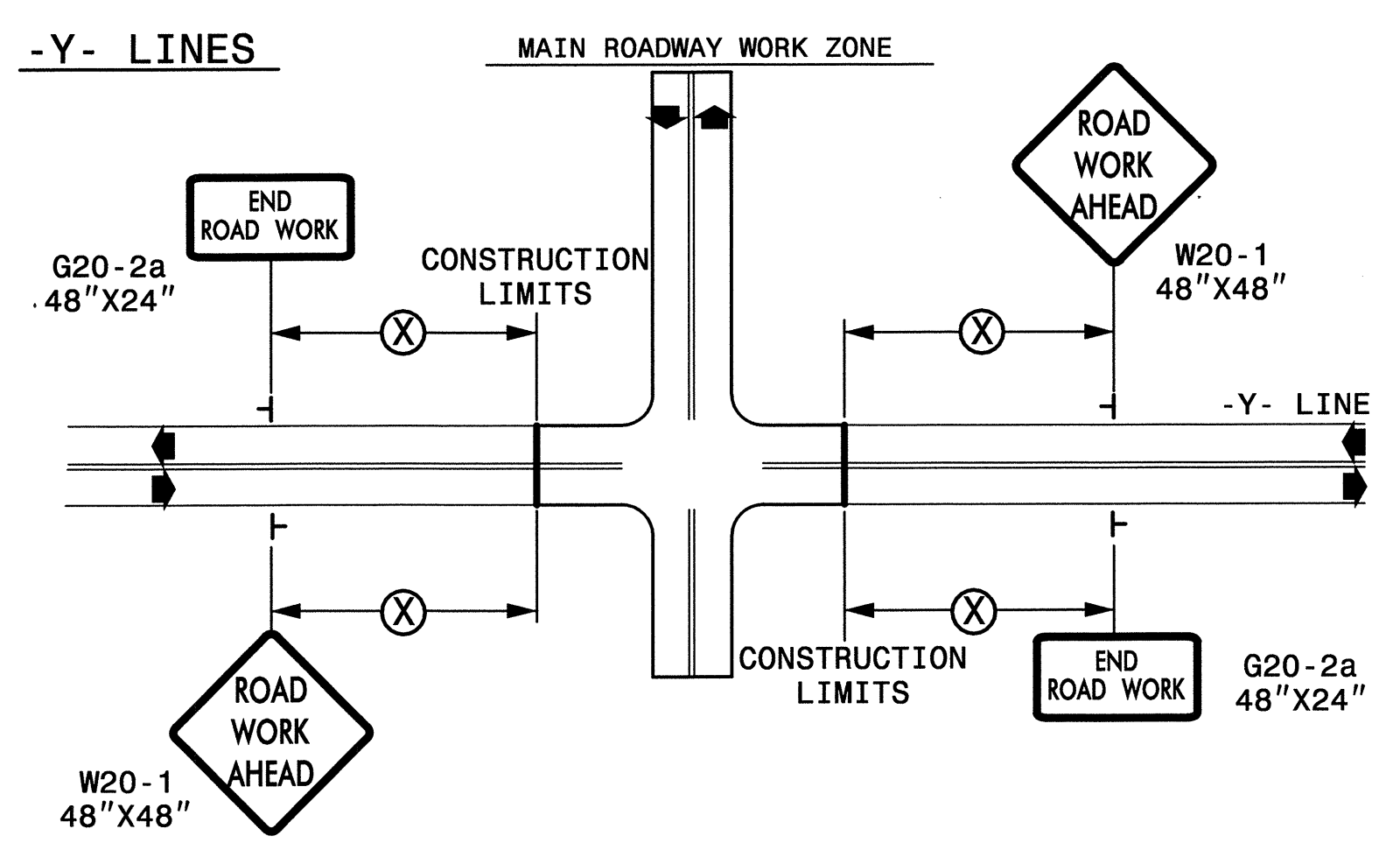
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

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 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

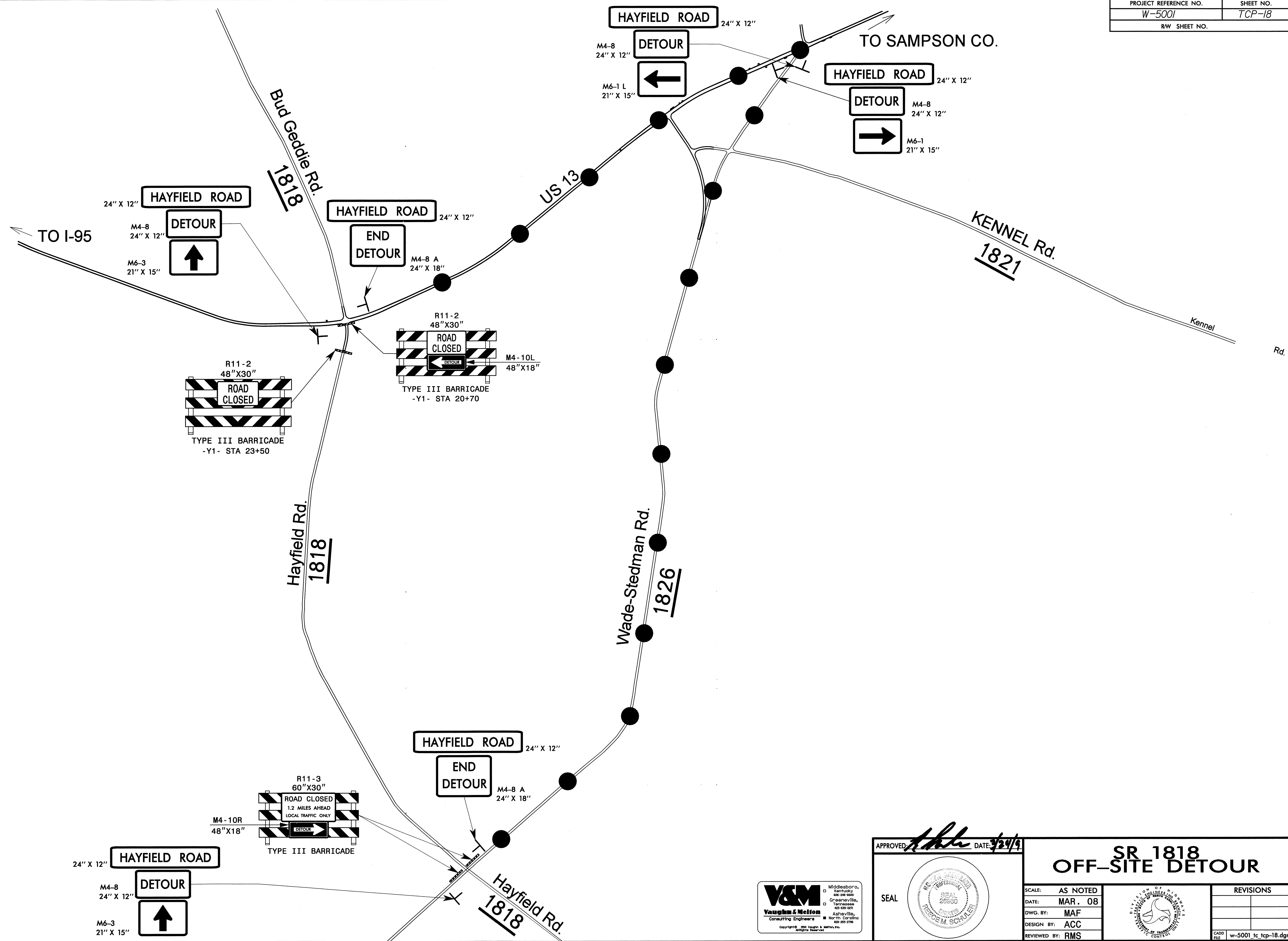
└ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: <i>[Signature]</i> DATE: 12/17	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
SEAL 	SCALE: NONE	REVISIONS
	DATE: 3/12/08	7-98 10/01
	DWG. BY: MAF	10-98 03/04
	DESIGN BY: ACC	01/01 11/04
REVIEWED BY: RMS	CADD FILE	

SYSTEMATIC DESIGN SERVICES
 1000 W. HARRIS STREET
 RALEIGH, NC 27601
 TEL: 919.871.1111
 FAX: 919.871.1112
 WWW.SDSYSTEMS.COM



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APPROVED: *[Signature]* DATE: 3/24/08

SEAL:

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**SR 1818
OFF-SITE DETOUR**

SCALE: AS NOTED		REVISIONS
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CADD FILE: w-5001_fc_tcp-18.dwg