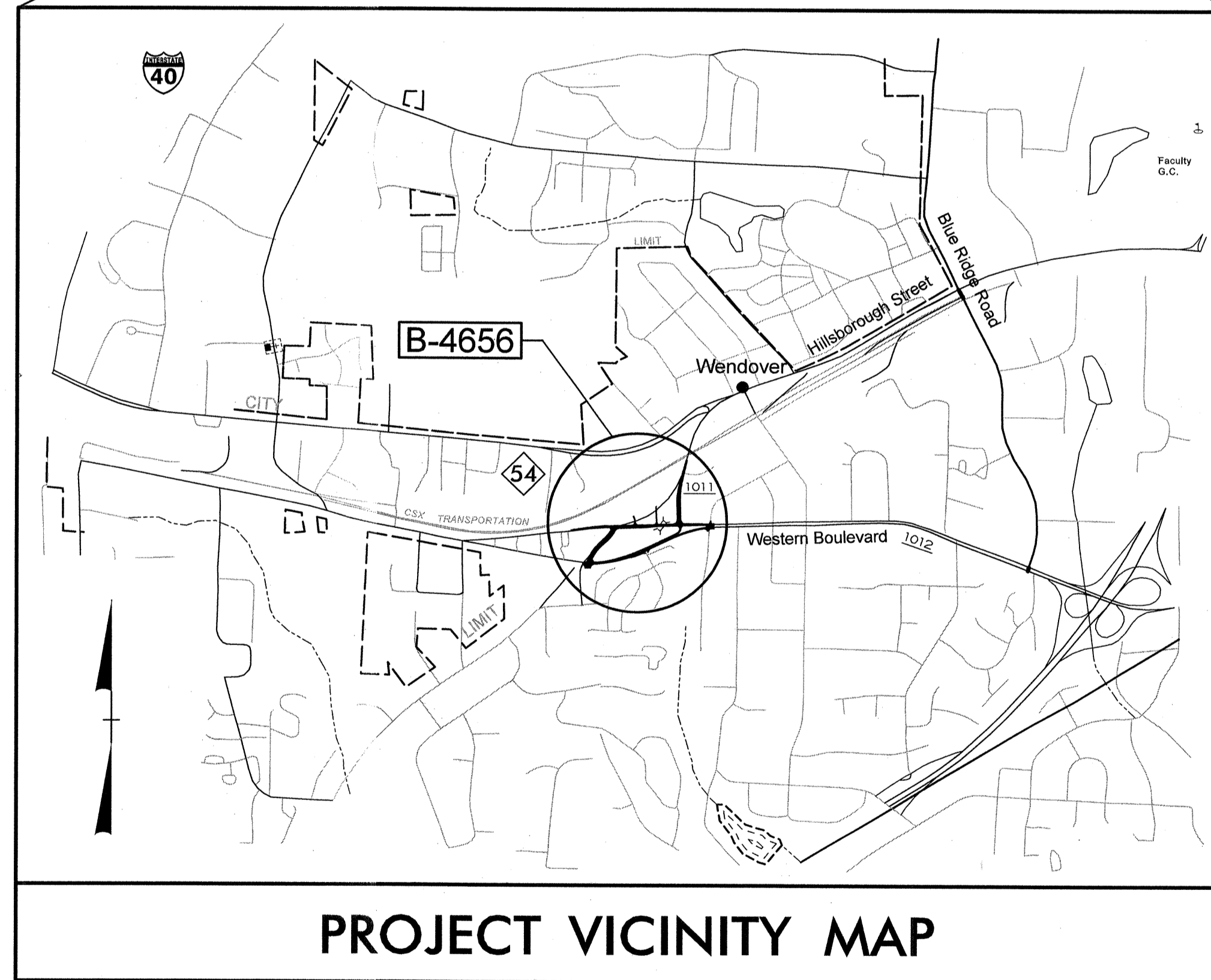
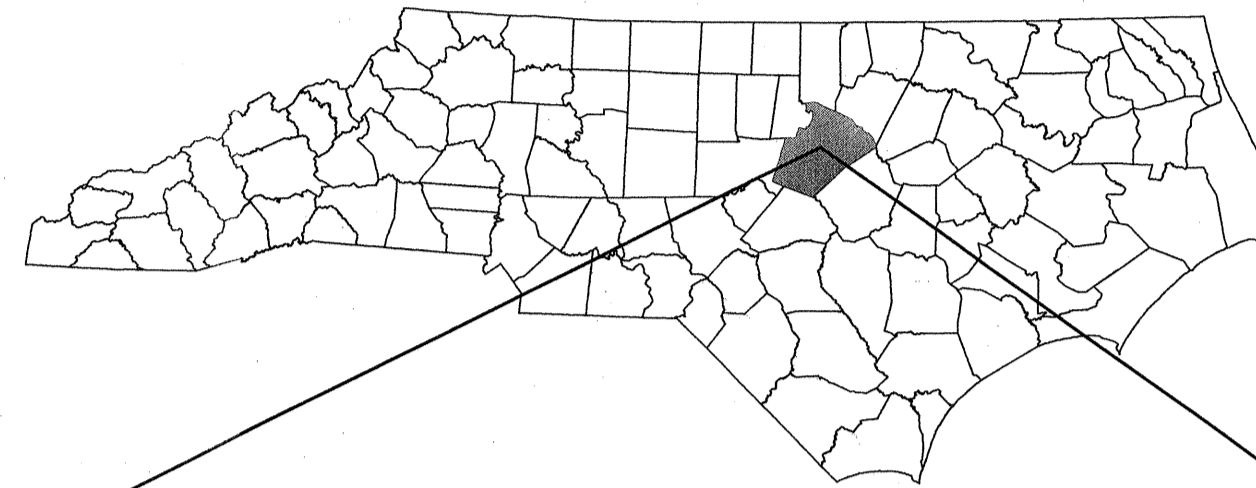


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAKE COUNTY



PROJECT VICINITY MAP

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, TEMPORARY PAVEMENT MARKING SCHEDULE AND MANAGEMENT STRATEGIES
TMP-1B	GENERAL NOTES
TMP-2	DETOUR DETAIL - IN-BOUND HILLSBOROUGH ST
TMP-2A	DETOUR DETAIL - OUT-BOUND WESTERN BLVD
TMP-2B	DETOUR DETAIL - OUT-BOUND HILLSBOROUGH ST
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING & LOCAL NOTES
TMP-4 THRU 6	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-7 THRU 9	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS
SD-1	SPECIAL SIGN DESIGNS

SHEET NO.
TMP-1

B-4656

TIP PROJECT:

REVISIONS

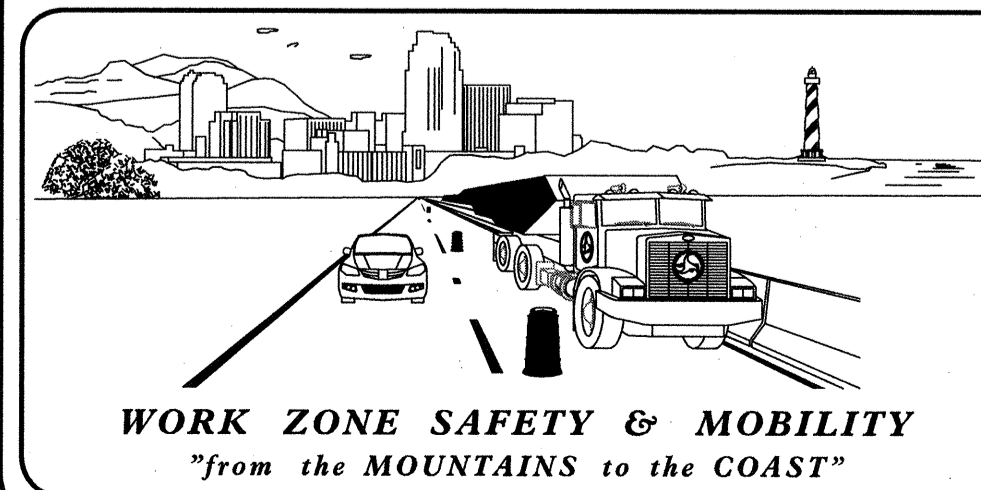
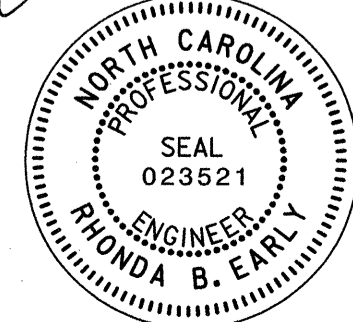
QA/QC STAGE:
REVIEW:
CONCUR:
REVISE:
VERIFY:

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

R. B. EARLY, PE TRAFFIC CONTROL PROJECT ENGINEER
R. B. EARLY, PE TRAFFIC CONTROL PROJECT DESIGN ENGINEER
J. A. PHILLIPS TRAFFIC CONTROL DESIGN ENGINEER

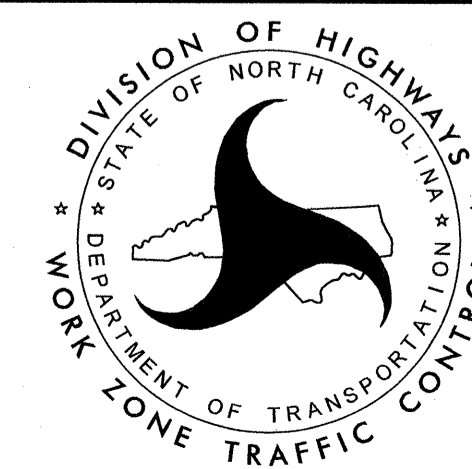
APPROVED:
DATE: June 25, 2012

SEAL



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

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
STEVE KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
DON PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- REMOVAL
- TEMPORARY PAVEMENT / GRADE

TEMPORARY PAVEMENT MARKING

SYMBOL	PAVEMENT MARKING LINES
PAINT (12")	
PV	YELLOW DIAGONAL
PAINT (24")	
P2	WHITE STOP BAR
P3	WHITE CROSSWALK LINE
PAINT (4")	
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PC	10 FT WHITE SKIP
PD	WHITE MINISKIP
PE	WHITE SOLID LANE LINE
PF	10 FT YELLOW SKIP
PH	YELLOW SINGLE CENTER
PI	YELLOW DOUBLE CENTER

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

REVISIONS

REVIEW: _____
 CONCUR: _____
 REVISE: _____
 VERIFY: _____
 QA/QC STAGE: _____

APPROVED: DATE: 6-25-12

SEAL

TRANSPORTATION
MANAGEMENT PLAN

ROADWAY STANDARD
DRAWINGS & LEGENDS

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

GENERAL NOTES

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

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
WESTERN BLVD (OUTBOUND -L2-) & HILLSBOROUGH ST (OUTBOUND -L2-) FROM -L2- STA 12+50 TO STA 25+00	MONDAY THRU SATURDAY 6:00 AM - 7:00 PM

ALL OTHER ROADS / LOCATIONS	MONDAY THRU FRIDAY
	6:00 AM - 9:00 AM & 4:00 PM - 6:00 PM

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

ROAD NAME
WESTERN BLVD HILLSBOROUGH ST JONES FRANKLIN RD

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR ANY PORTION OF A DAY IN WHICH THE NORTH CAROLINA STATE FAIR IS UNDERWAY.
- FOR ANY PORTION OF A DAY IN WHICH A COLLEGE FOOTBALL GAME IS TO BE PLAYED AT CARTER FINLEY STADIUM.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	OPERATION(S)
WESTERN BLVD (OUTBOUND)	MONDAY TO SUNDAY: 6:00 AM - 9:00 PM	OVERHEAD STRUCTURE WORK

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE CLOSURE REQUIREMENTS

- E) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAINS WITHIN THE CLOSED TRAVEL LANE.

I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) 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.

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

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 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

N) PROVIDE PERMANENT SIGNING.

O) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE(S) AS SHOWN IN THE TRAFFIC CONTROL PLANS.

P) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE 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) AND/OR "BUMP" SIGNS (W8-1) 500' IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

S) WHEN LANE CLOSURES ARE NOT IN EFFECT, SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPENED TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

T) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

U) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS) PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

W) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

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

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

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

MISCELLANEOUS

AA) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

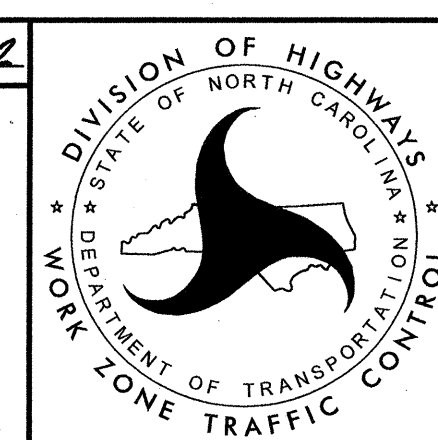
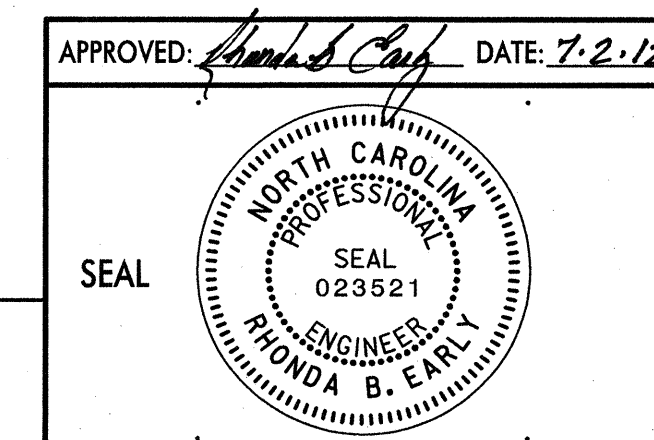
BB) BACKFILL AROUND EXPOSED DRAINAGE STRUCTURES SO THAT IT IS NOT A HAZARD TO THE MOTORIST OR PEDESTRIAN.

CC) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S 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) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

DD) ALL WHEELCHAIR RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

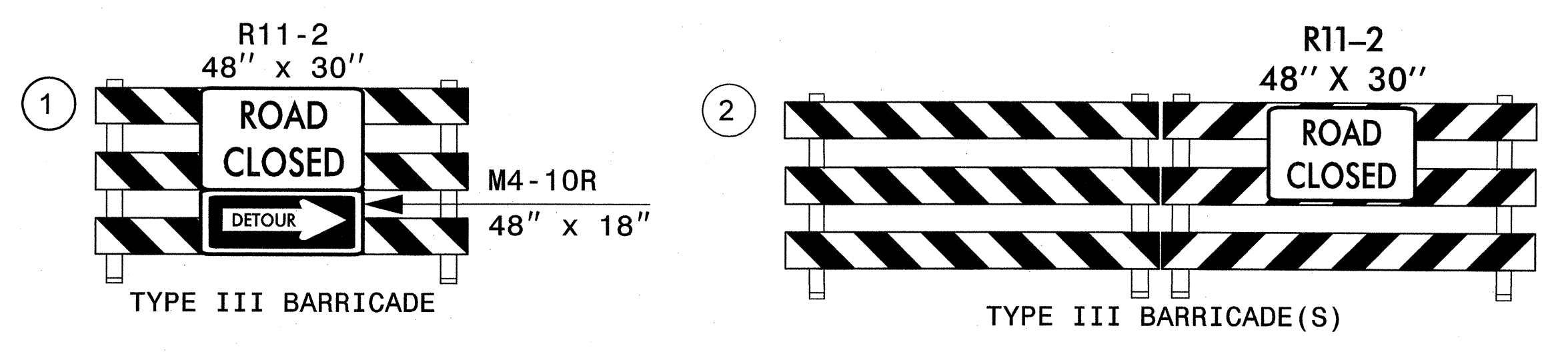
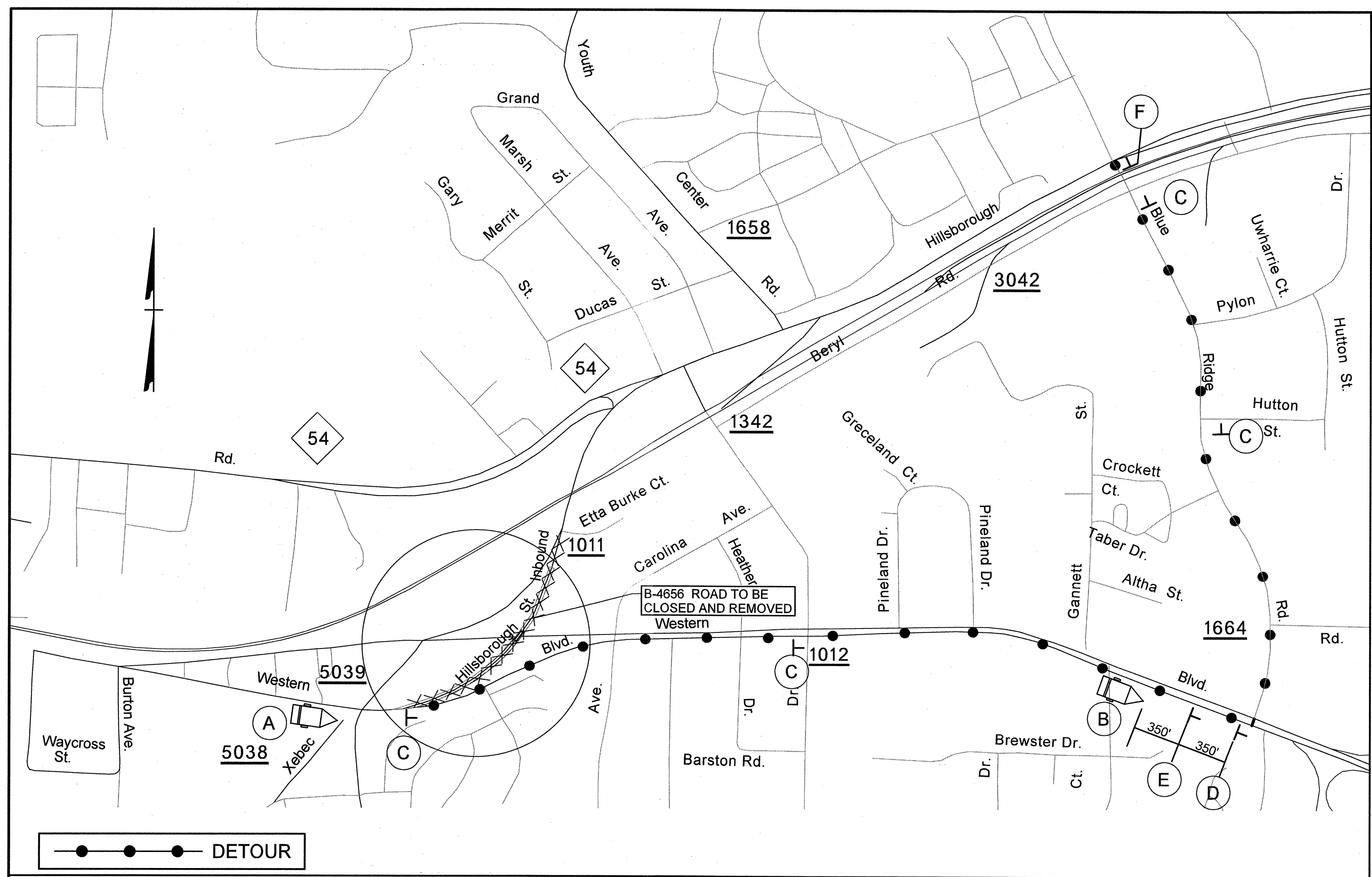
EE) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

8/17/99
 REVISIONS
 QAYQC STAGE:
 REVIEW:
 CONCUR:
 REVISE:
 VERIFY:



TRANSPORTATION
 MANAGEMENT PLAN
**TRANSPORTATION
 OPERATIONS
 PLAN**

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

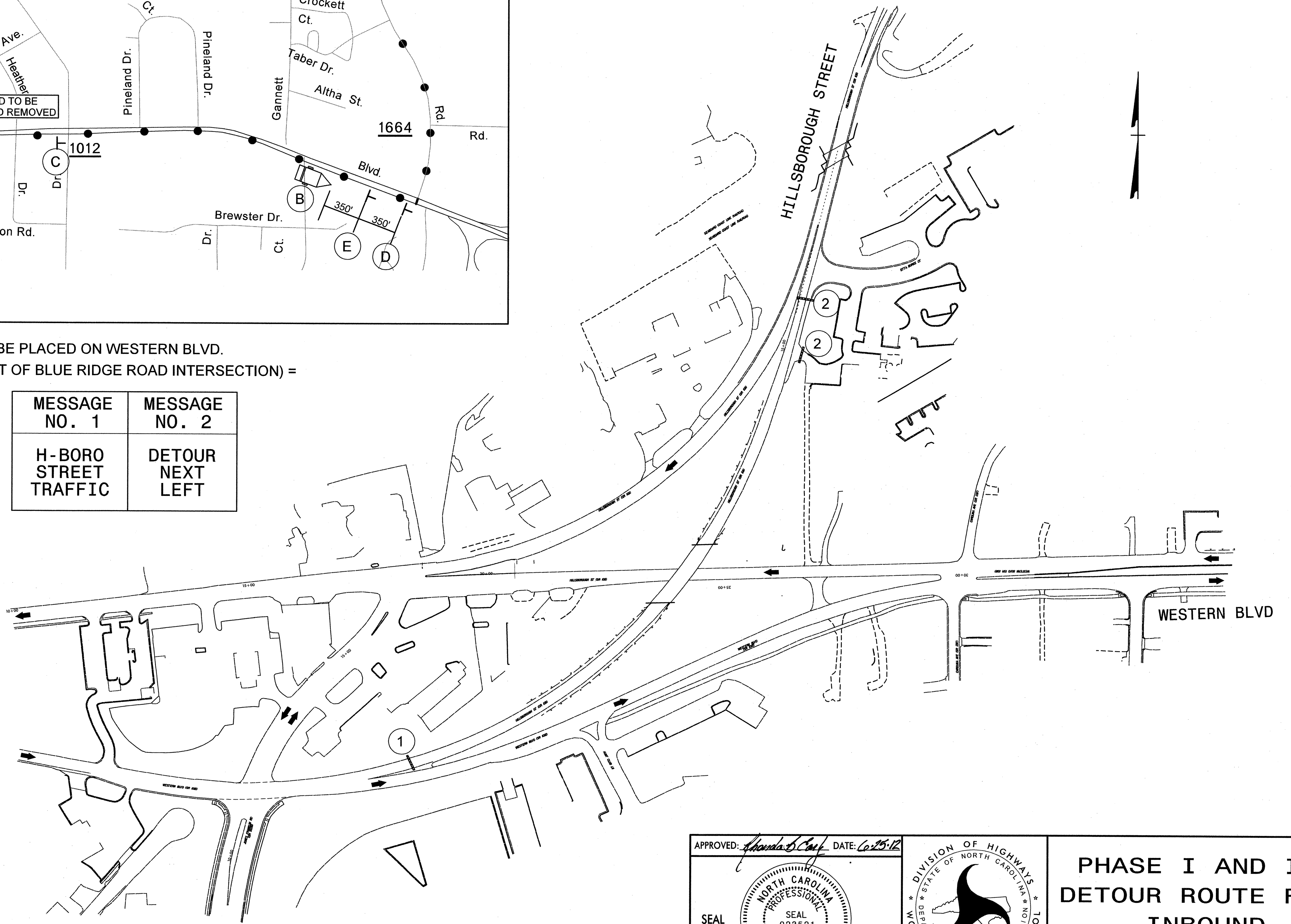
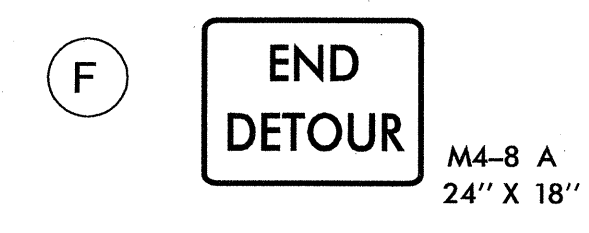
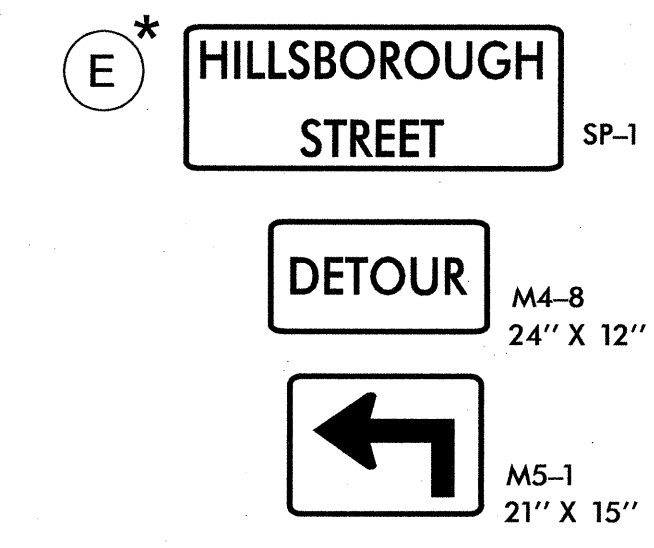
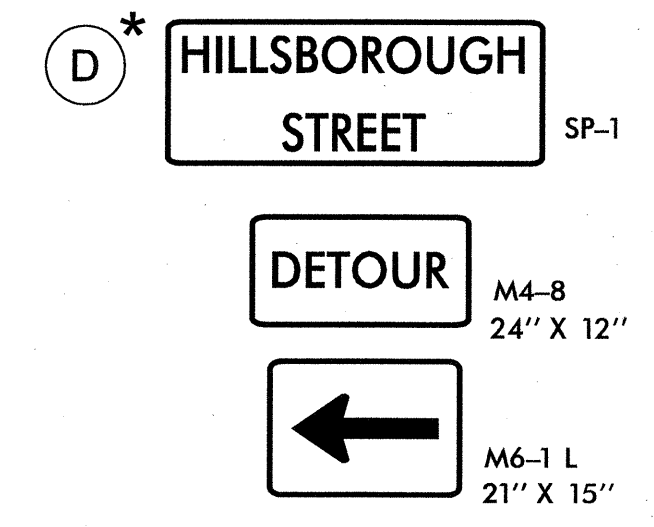
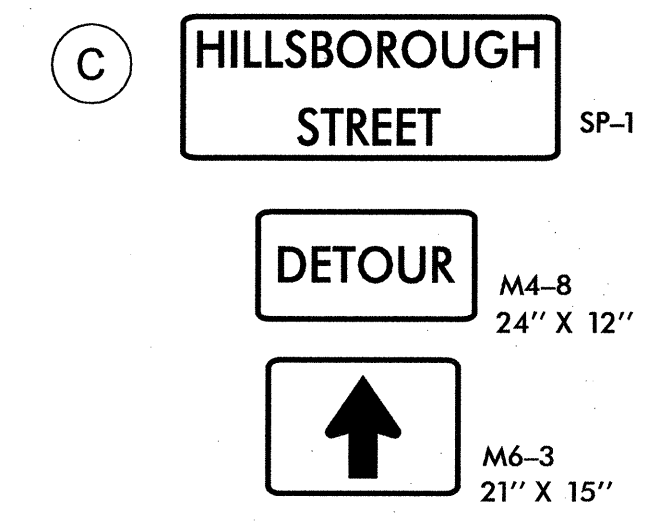


(A) (TO BE PLACED ON WESTERN BLVD. WEST OF INTERSECTION AT JONES FRANKLIN ROAD) =

MESSAGE NO. 1	MESSAGE NO. 2
H-BORO STREET CLOSED	DETOUR WESTERN BLVD

(B) (TO BE PLACED ON WESTERN BLVD. WEST OF BLUE RIDGE ROAD INTERSECTION) =

MESSAGE NO. 1	MESSAGE NO. 2
H-BORO STREET TRAFFIC	DETOUR NEXT LEFT

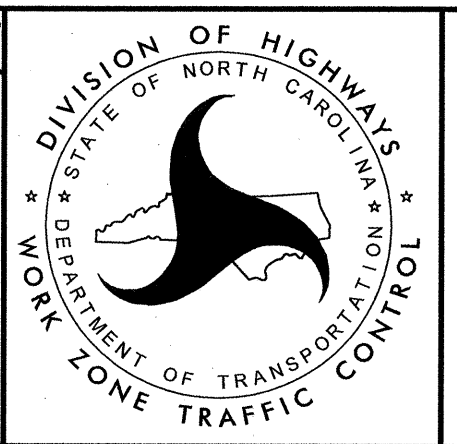


* PLACE SIGNS ON RIGHT AND LEFT (IN MEDIAN)

APPROVED: *Rhonda B. Early* DATE: *2/25/12*

SEAL

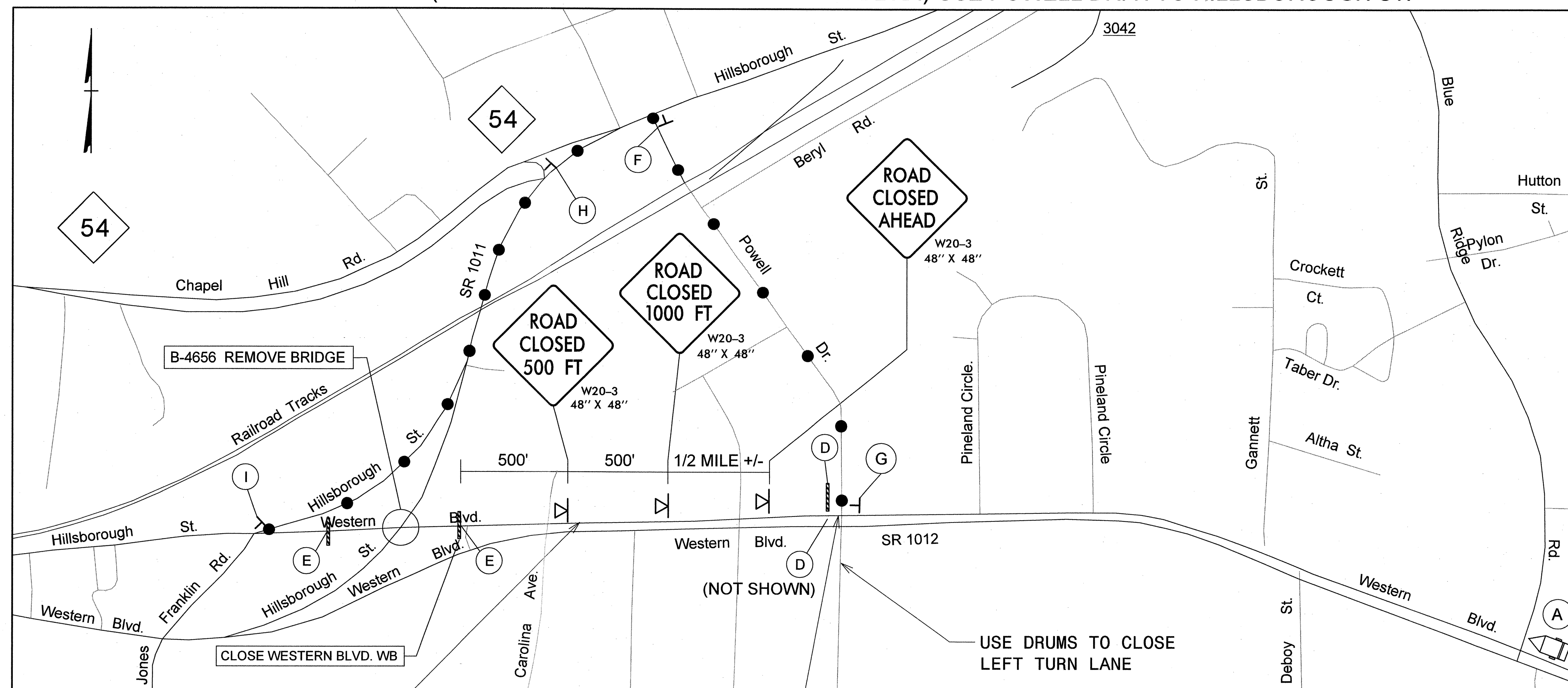
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 023521
RHONDA B. EARLY



**PHASE I AND II
DETOUR ROUTE FOR
INBOUND
HILLSBOROUGH ST**

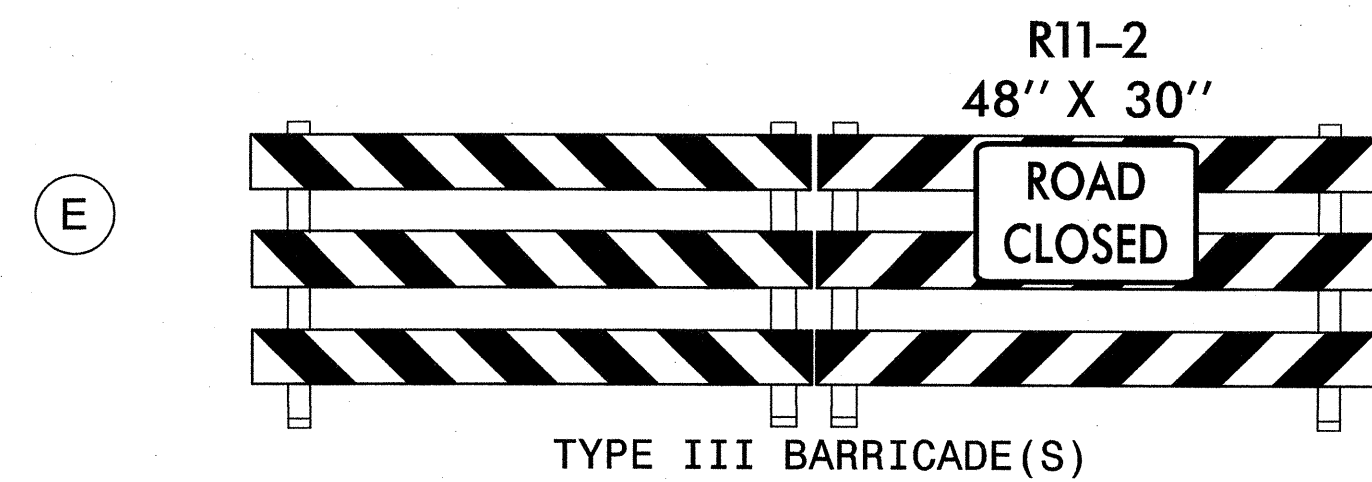
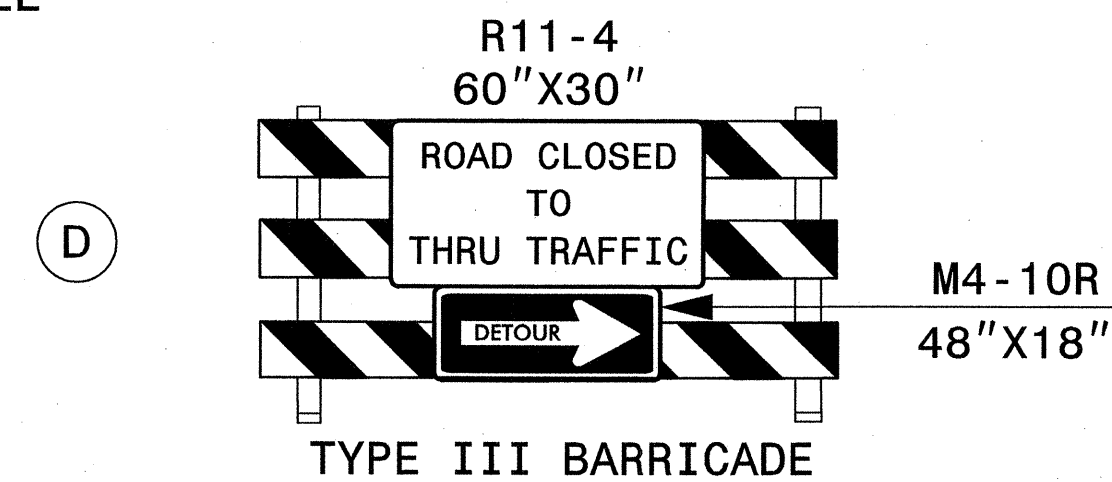
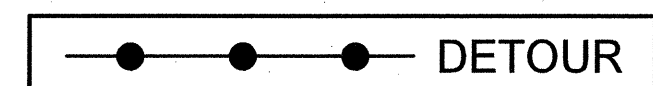
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\$\$\$\$\$USERNAME\$\$\$\$\$

WESTERN BLVD. DETOUR (TO REMOVE BRIDGE OVER WESTERN BLVD.) USE POWELL DR. N TO HILLSBOROUGH ST.

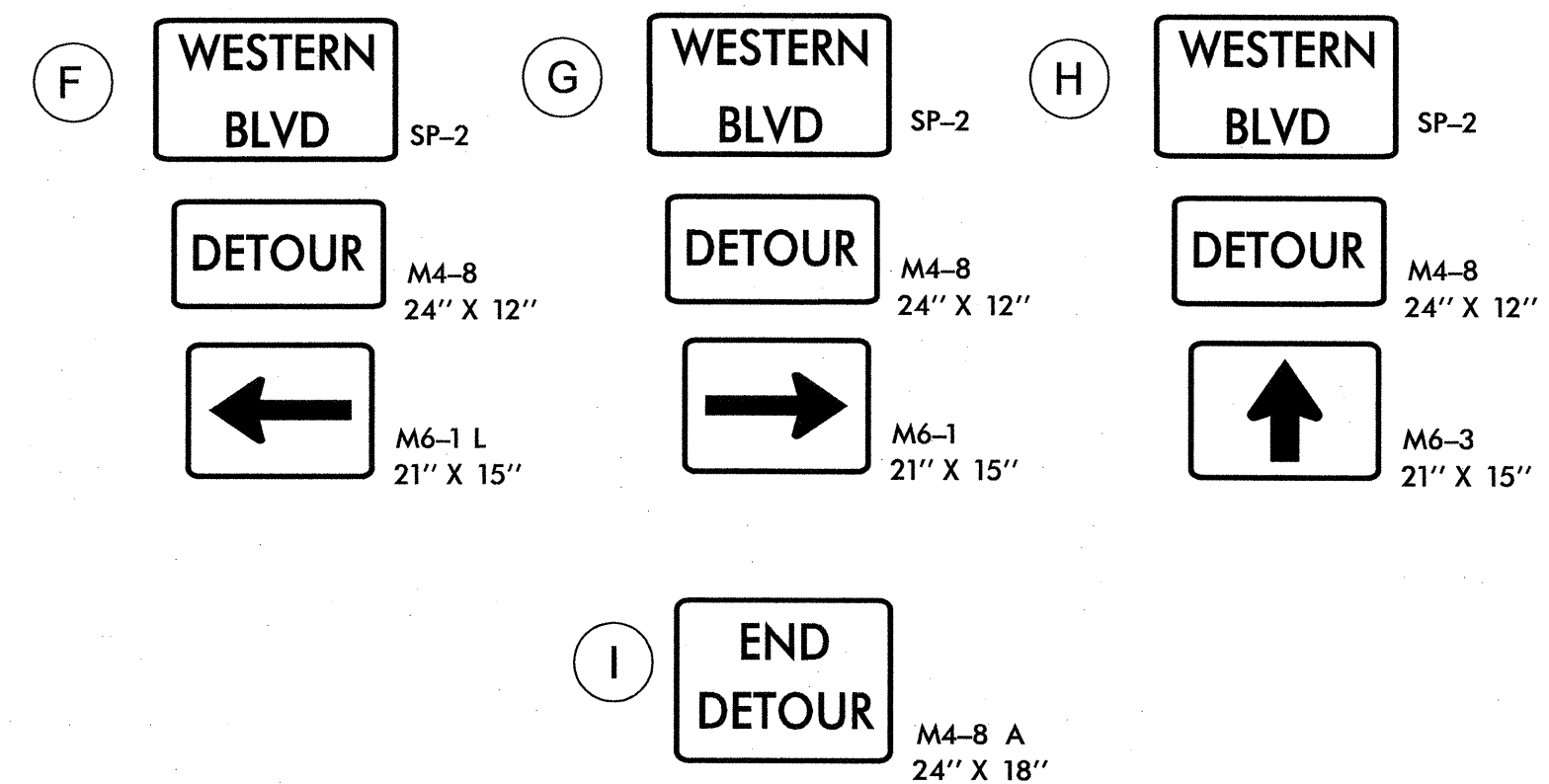
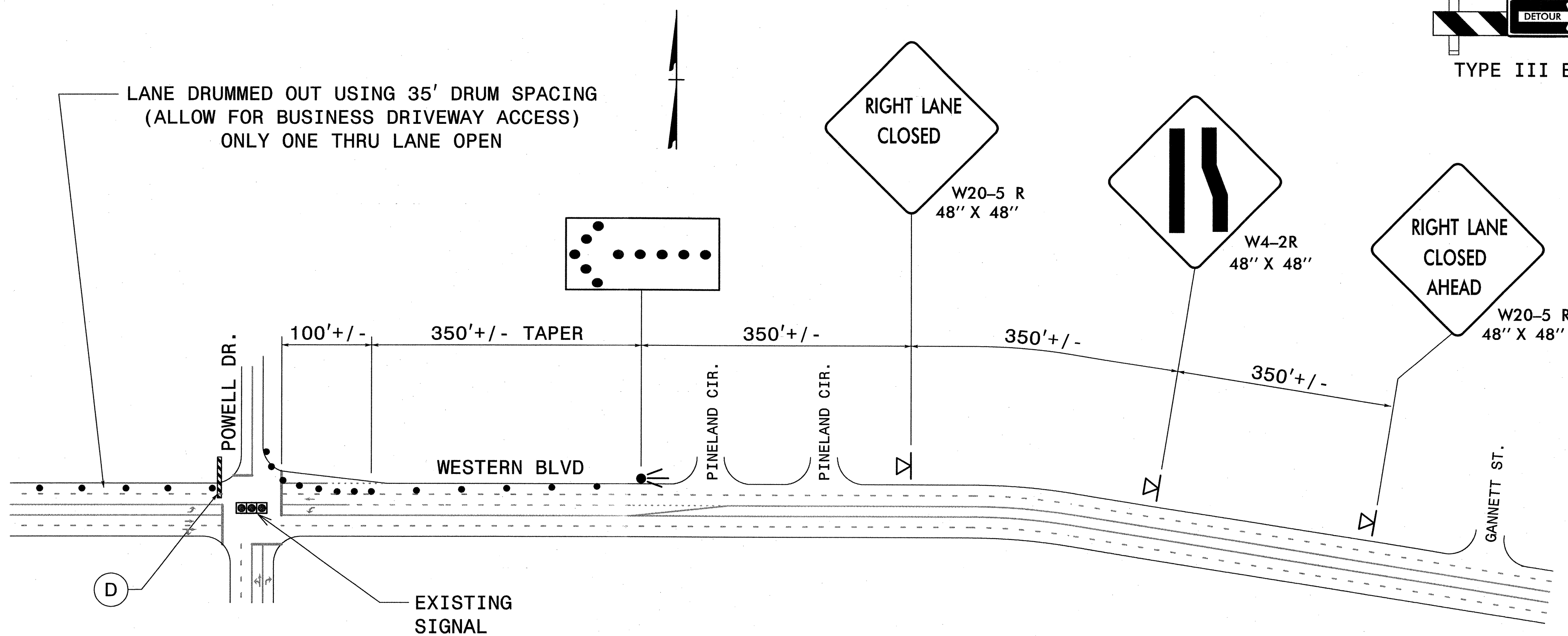


USING DRUMS, KEEP LEFT LANE CLOSED

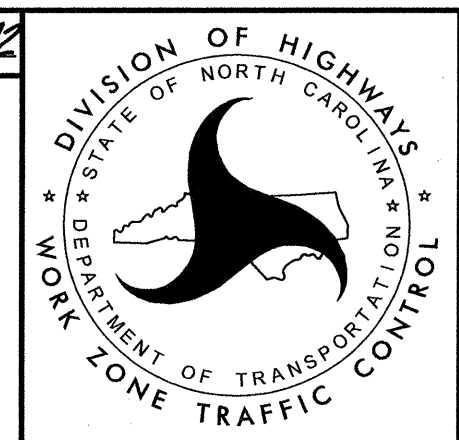
USE DRUMS AND TYPE III BARRICADES TO CHANNELIZE THRU TRAFFIC RIGHT ONTO POWELL DR DETOUR ROUTE WHILE ALLOWING LEFT TURN MOVEMENT AND LOCAL TRAFFIC TO GO THRU.



LANE DRUMMED OUT USING 35' DRUM SPACING (ALLOW FOR BUSINESS DRIVEWAY ACCESS) ONLY ONE THRU LANE OPEN



APPROVED: *[Signature]* DATE: 10-25-12
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 023521
 RYONDA B. EARLY



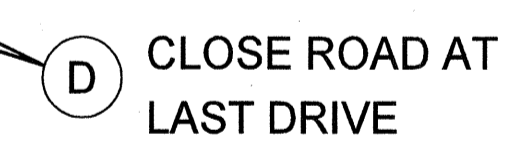
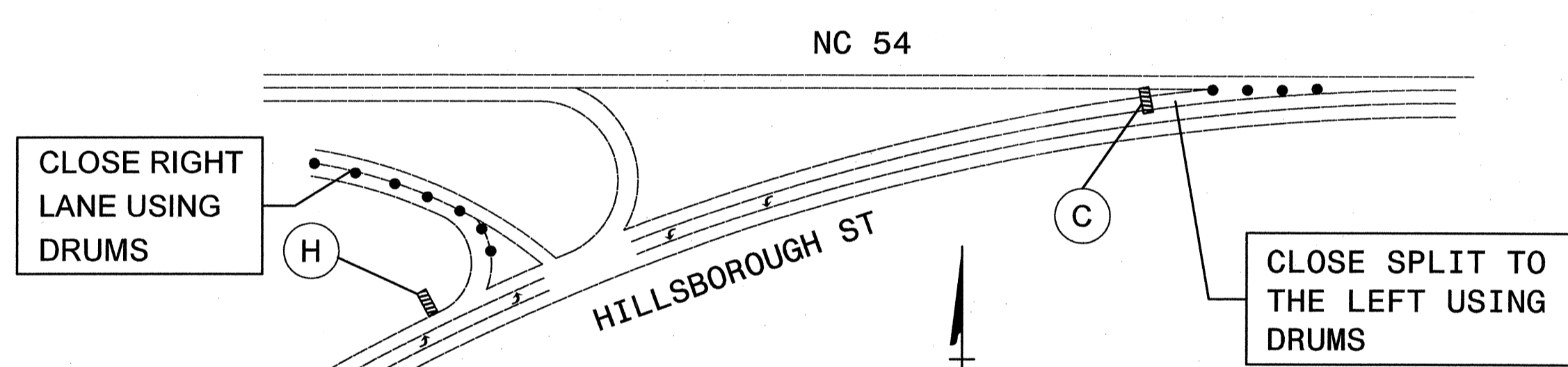
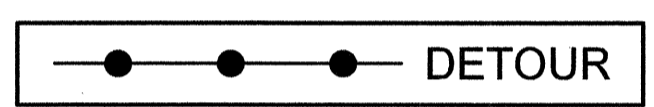
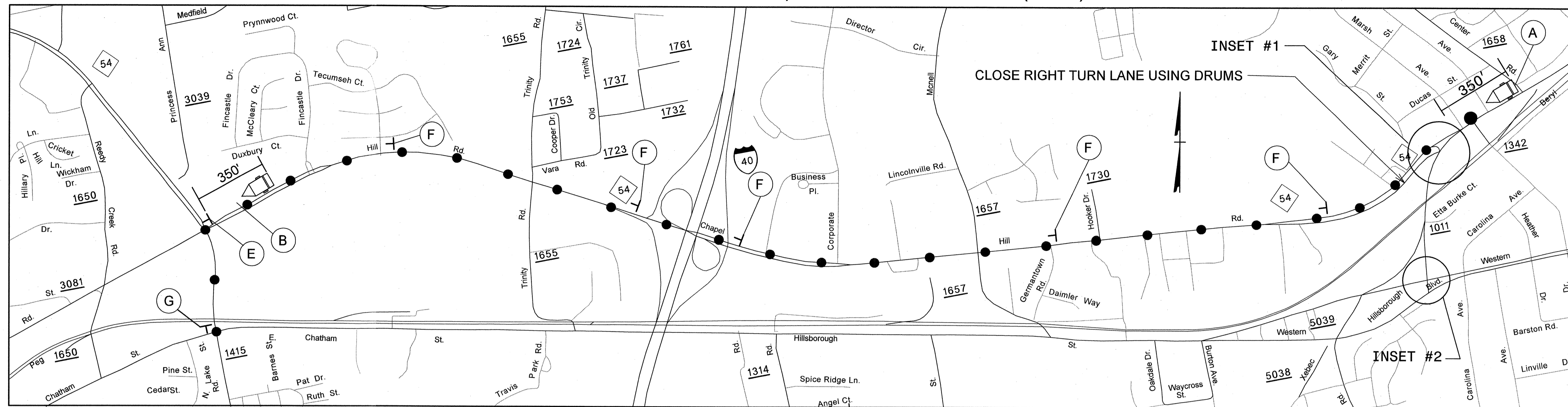
PHASE I
 DETOUR ROUTE
 FOR
 WESTERN BLVD

(A) (TO BE PLACED ON WESTERN BLVD. EAST OF THE CORNER WITH BLUE RIDGE ROAD) =

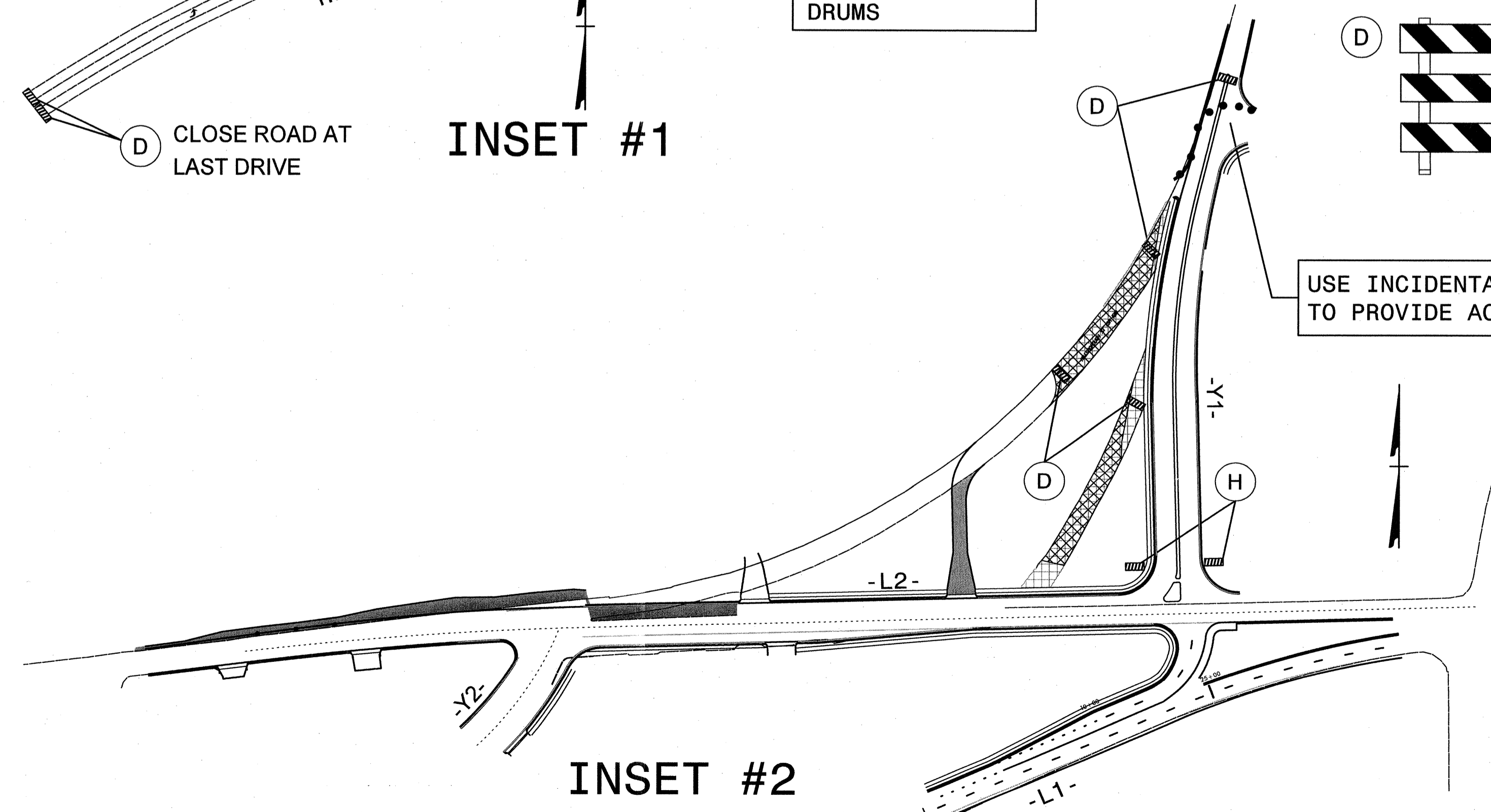
MESSAGE NO. 1	MESSAGE NO. 2
WESTERN BLVD CLOSED	AT POWELL DRIVE

\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$USERNAME\$\$\$

HILLSBOROUGH ST. OUTBOUND DETOUR (TO COMPLETE TIE IN OF -Y1- TO HILLSBOROUGH ST.) USE HILLSBOROUGH ST. (NC 54) TO CHAPEL HILL RD. TO NE MAYNARD RD. TO EAST CHATHAM ST.



INSET #1



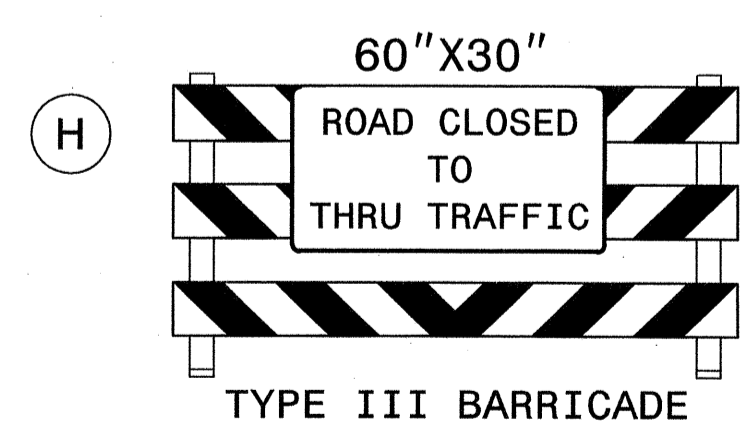
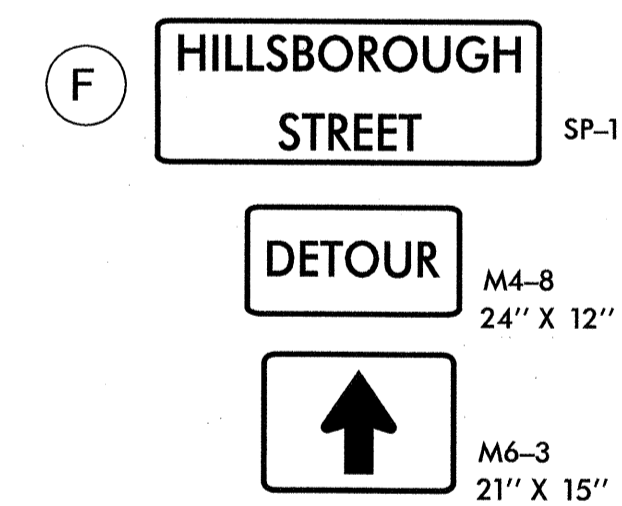
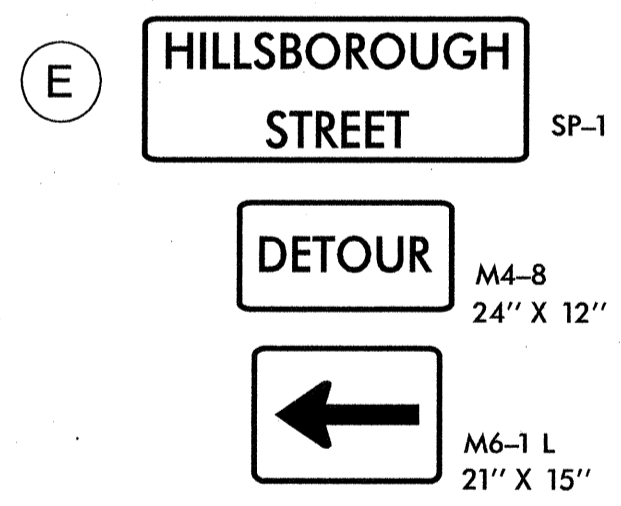
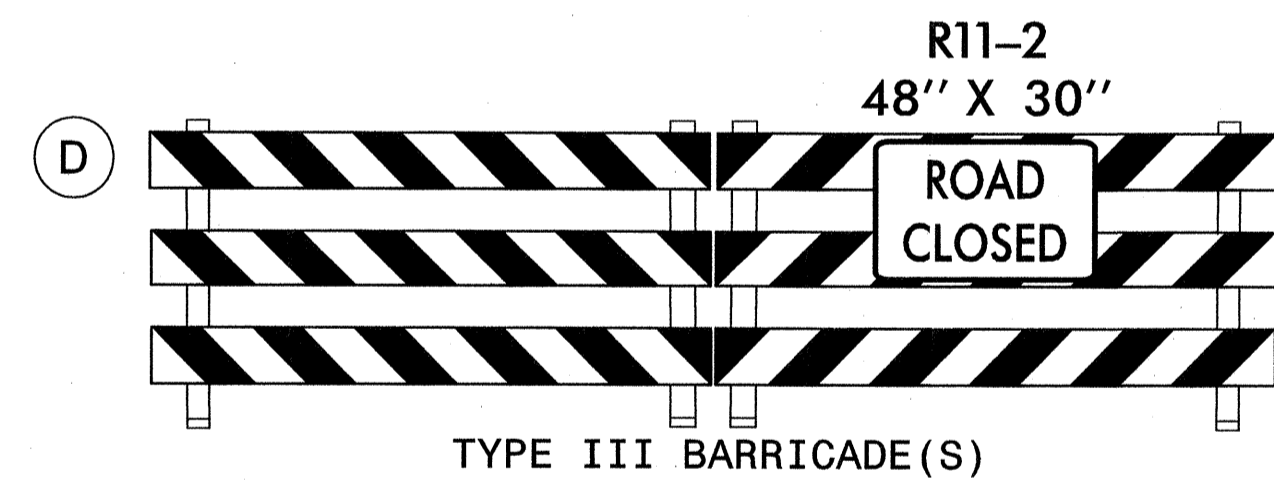
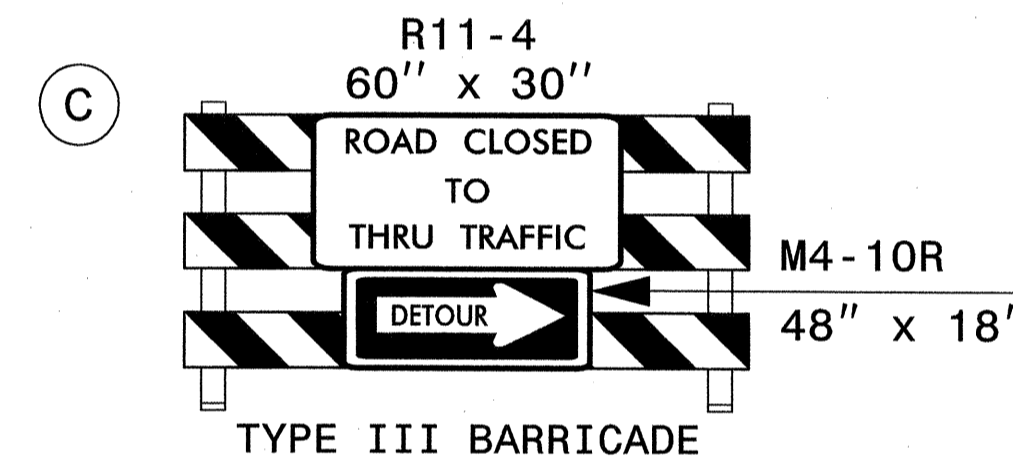
INSET #2

(A)

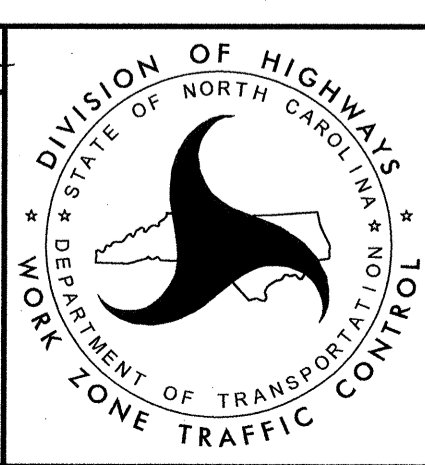
MESSAGE NO. 1	MESSAGE NO. 2
H-BORO STREET CLOSED	USE NC 54

(B)

MESSAGE NO. 1	MESSAGE NO. 2
H-BORO STREET TRAFFIC	DETOUR NEXT LEFT



APPROVED: *Shanda S. Cook* DATE: 6-25-12



PHASE II
DETOUR ROUTE
FOR OUTBOUND
HILLSBOROUGH ST

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

PROJECT PHASING

LOCAL NOTES

NOTES:

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED MILLING / WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE. COMPLETE WEDGING AND WIDENING SIMULTANEOUSLY SO THAT CURRENT TRAFFIC PATTERNS, DROP-OFF REQUIREMENTS AND POSITIVE DRAINAGE ARE MAINTAINED.

PAVE PROPOSED CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, IN ALL PHASES UNTIL STATED TO INSTALL FINAL LAYER IN THE PHASING.

PHASE I (SEE SHEETS TMP-4 THRU TMP-6)

STEP 1:
INSTALL ADVANCED WORK ZONE WARNING SIGNS ON -L1- (WESTERN BLVD), -L2- / -Y1- (HILLSBOROUGH ST) AND -Y2- (JONES FRANKLIN RD) ACCORDING TO RSD 1101.01.

INSTALL & COVER TEMPORARY SIGNAL #1 AT -L1-/-Y2- INTERSECTION.
INSTALL & COVER TEMPORARY SIGNAL #1 AT -L2-/-Y2- INTERSECTION.

STEP 2:
USING DRUMS & RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, REMOVE SECTION OF EXISTING CONCRETE ISLAND ON -Y1- FROM STA 16+31+/- TO 17+11+/- AT ETTA BURKE CT TO PROVIDE TEMPORARY ACCESS FROM OUTBOUND HILLSBOROUGH ST TO ETTA BURKE CT. (SEE TMP-5)

ACTIVATE TEMPORARY SIGNAL #1 AT -L1-/-Y2- INTERSECTION. (LN-4)
ACTIVATE TEMPORARY SIGNAL #1 AT -L2-/-Y2- INTERSECTION.

STEP 3:
USING OFF-SITE DETOUR (TMP-2), CLOSE IN-BOUND HILLSBOROUGH ST FROM -L1- TO ETTA BURKE CT.

STEP 4:
USING RSD 1101.02 (SHEETS 1,2 & 3) AS NEEDED, BEGIN CONSTRUCTION OF THE FOLLOWING:

- * -L1- FROM STA 12+00+/- TO STA 27+50+/- (EXISTING & LEFT SIDE) (LN-1,5)
- * -L2- FROM STA 12+50+/- TO STA 20+60+/- (EXISTING & RIGHT SIDE)
- * -L2- FROM STA 20+60+/- TO STA 29+00+/- (EXISTING & BOTH SIDES)
- * -Y2- FROM -L1- TO -L2- (EXISTING & BOTH SIDES)
- * -SPUR-
- * -DWY1-

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING:

- * -Y1- FROM -L2- TO STA 14+00+/- (LEFT SIDE)
- * -Y1- FROM -L2- TO STA 15+20+/- (RIGHT SIDE) (LN-2)

BEGIN INSTALLATION OF THE FOLLOWING TEMPORARY SIGNALS (COVER HEADS):

- * TEMPORARY SIGNAL #2 AT -L1-/-Y2- INTERSECTION
- * TEMPORARY SIGNAL #2 AT -L2-/-Y2- INTERSECTION
- * TEMPORARY SIGNAL #1 AT -L2-/-Y1- INTERSECTION

AWAY FROM TRAFFIC, BEGIN REMOVAL OF ABANDONED INBOUND HILLSBOROUGH ST.

STEP 5:
USING CONSECUTIVE NIGHTLY OFF-SITE DETOUR FOR OUTBOUND -L2- (WESTERN BLVD), REMOVE EXISTING INBOUND HILLSBOROUGH STREET BRIDGE OVER -L2-. SEE SHEET TMP-2A FOR DETOUR DETAIL. (COVER DETOUR SIGNS WHEN NOT IN USE.)

STEP 6:
COMPLETE WORK BEGUN IN STEP 4. AS WORK ON EACH SECTION IS COMPLETED, PLACE TEMPORARY PAVEMENT MARKING AS SHOWN IN PHASE II AND ACTIVATE ASSOCIATED SIGNAL. THEN REMOVE DETOUR SIGNS FOR WESTERN BLVD (TMP-2A) AND REMOVE EXISTING MEDIAN CROSS-OVER LEFT OF -L1- AT STA 25+40. (LN-3)

PHASE II (SEE SHEETS TMP-7 THRU TMP-9)

STEP 1:
USING RSD 1101.02 (SHEETS 1 & 3) AS NEEDED, BEGIN CONSTRUCTION OF -L1- FROM STA 12+00+/- TO STA 20+50+/- (RIGHT SIDE).

BEGIN INSTALLATION OF FINAL SIGNALS.

INSTALL AND COVER DETOUR SIGNS FOR OUTBOUND HILLSBOROUGH ST (TMP-2B).

COMPLETE THE WORK IN PHASE II, STEP 2 AND STEP 3 BETWEEN 10:00 PM FRIDAY AND 6:00 AM THE FOLLOWING TUESDAY. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 2:
UNCOVER OUTBOUND HILLSBOROUGH ST DETOUR SIGNS (TMP-2B) AND CLOSE -Y1-. USING OFF-SITE DETOUR, COMPLETE -Y1- TIE TO EXISTING FROM STA 14+00+/- TO STA 18+50+/- INCLUDING -DRY3-. USE FLAGGERS, DRUMS AND INCIDENTAL STONE AS NEEDED TO PROVIDE ACCESS TO ETTA BURKE CT.

STEP 3:
PLACE TEMPORARY PAVEMENT MARKING ON -Y1- AS SHOWN FINAL PAVEMENT MARKING PLANS, ACTIVATE TEMPORARY SIGNAL #1 AT -L2-/-Y1- INTERSECTION AND OPEN -Y1- AND -SPUR- TO TRAFFIC. REMOVE DETOUR SIGNING PLACED IN PHASE I, STEP 2 (TMP-2) AND PHASE II, STEP 2 (TMP-2B).

STEP 4:
USING RSD 1101.02 (SHEET 3 OF 15), CONSTRUCT -L2- (LEFT SIDE) FROM STA 12+50+/- TO STA 20+60+/- AND -DWY2-.

REMOVE ABANDONED OUTBOUND HILLSBOROUGH ST PAVEMENT.

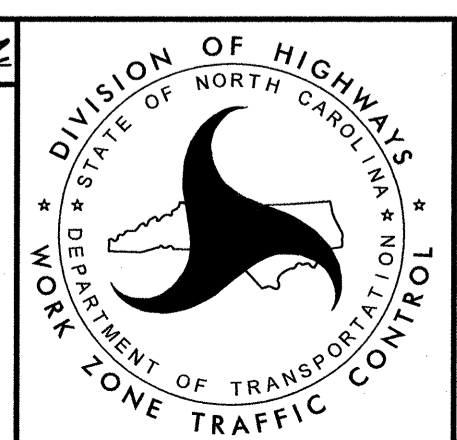
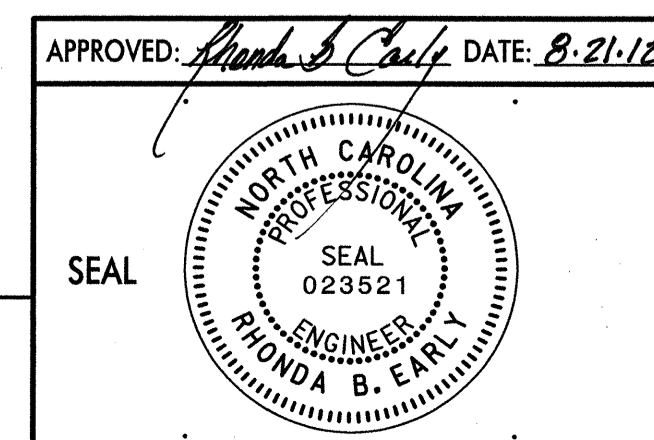
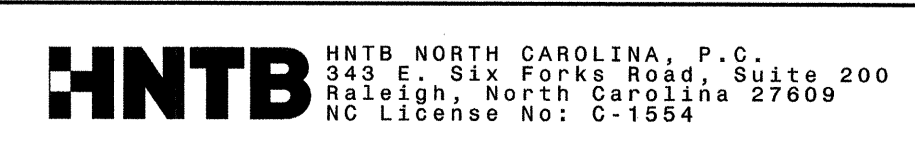
COMPLETE INSTALLATION OF FINAL SIGNALS. (COVER HEADS)

STEP 5:
USING RSD 1101.02 (SHEETS 1,2 & 3 OF 15) AS NEEDED, CONSTRUCT ISLANDS, PLACE FINAL LAYER OF SURFACE COURSE, INSTALL FINAL PAVEMENT MARKINGS & MARKERS, ACTIVATE FINAL SIGNALS AND OPEN ALL LANES TO TRAFFIC.

- LN-1 IF WORK IS COMPLETED DURING CONSECUTIVE PERIODS, THEN DRUMS CLOSING LEFT THRU LANE MAY BE LEFT IN PLACE TO ALLOW AMPLE TIME FOR CONSTRUCTING AND CURING THE PROPOSED CURB AND GUTTER ALONG THE INTERSECTION RADIUS OF IN-BOUND WESTERN BLVD AND SOUTHBOUND JONES FRANKLIN ROAD. CONTRACTOR MAY ELECT TO CLOSE THE ENTIRE LENGTH OF THE LEFT-THRU LANE IN LIEU OF USING RSD 1101.02 (SHEET 3 OF 15). DRIVEWAY ACCESSES IN THIS SECTION WILL BE KEPT OPEN.
- LN-2 USE DRUMS AS NEEDED TO BLOCK DRIVEWAY ACCESS POINTS FROM PARKING LOT(S) OFF OF ETTA BURKE CT TO OUT-BOUND HILLSBOROUGH ST AND WESTERN BLVD.
- LN-3 TEMPORARY SIGNAL #1 AT THE INTERSECTION OF -L2- & -Y1- WILL BE ACTIVATED IN PHASE II, STEP 3.
- LN-4 UPON ACTIVATING TEMPORARY SIGNAL #1 AT -L1-/-Y2-, REMOVE EXISTING THRU ARROWS AND INSTALL COMBINATION THRU / RIGHT ARROWS AND MINISKIPS FOR DUAL RIGHT TURN ON -L1- APPROACHING -Y2- AS SHOWN ON SHEET TMP-4.
- LN-5 DO NOT REMOVE EXISTING MEDIAN CROSSOVER LEFT OF -L1- AT STA 25+40+/- UNTIL PHASE I, STEP 6.

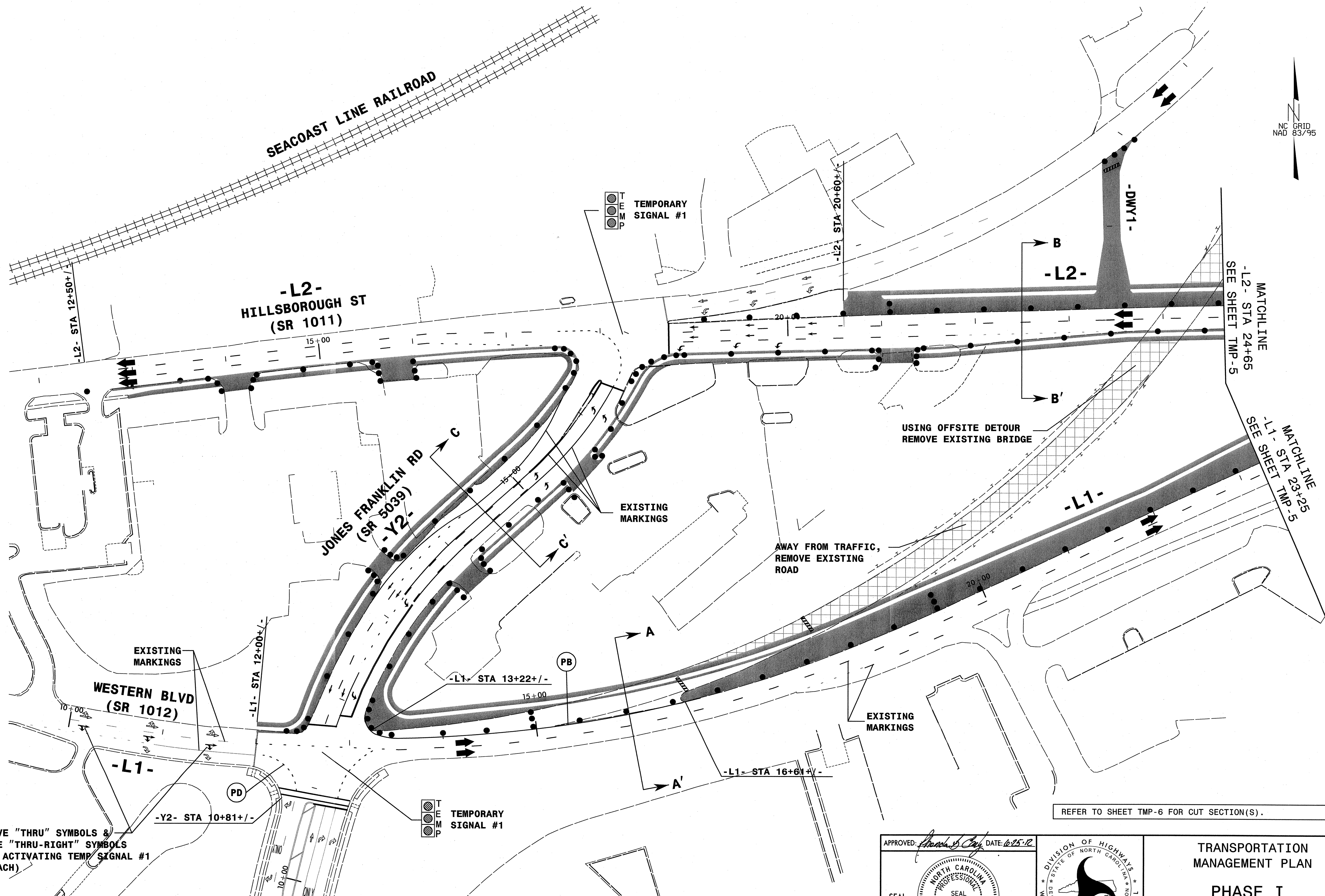
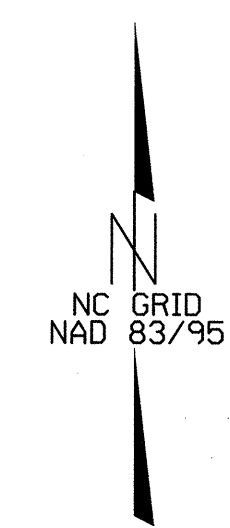
REVISIONS

SYSTEMS DESIGN
 DESIGN DEVELOPMENT
 DESIGN REVIEW
 QA/QC STAGE
 REVIEW:
 CONCUR:
 REVISE:
 VERIFY:



**TRANSPORTATION
 MANAGEMENT PLAN
 PHASING &
 LOCAL NOTES**

8/17/99



REVISIONS

QA/QC STAGE:

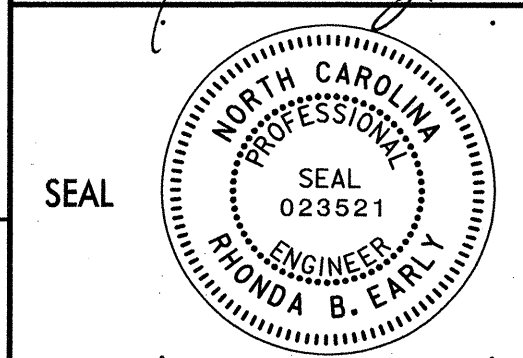
REVIEW:
CONCUR:
REVISE:
VERIFY:

REMOVE "THRU" SYMBOLS &
PLACE "THRU-RIGHT" SYMBOLS
UPON ACTIVATING TEMP SIGNAL #1
(3 EACH)

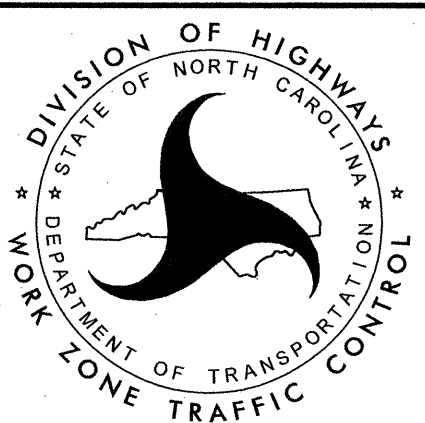
TEMPORARY SIGNAL #1

TEMPORARY SIGNAL #1

APPROVED: *[Signature]* DATE: 6/25/12



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Raleigh, North Carolina 27609
NC License No: C-1554

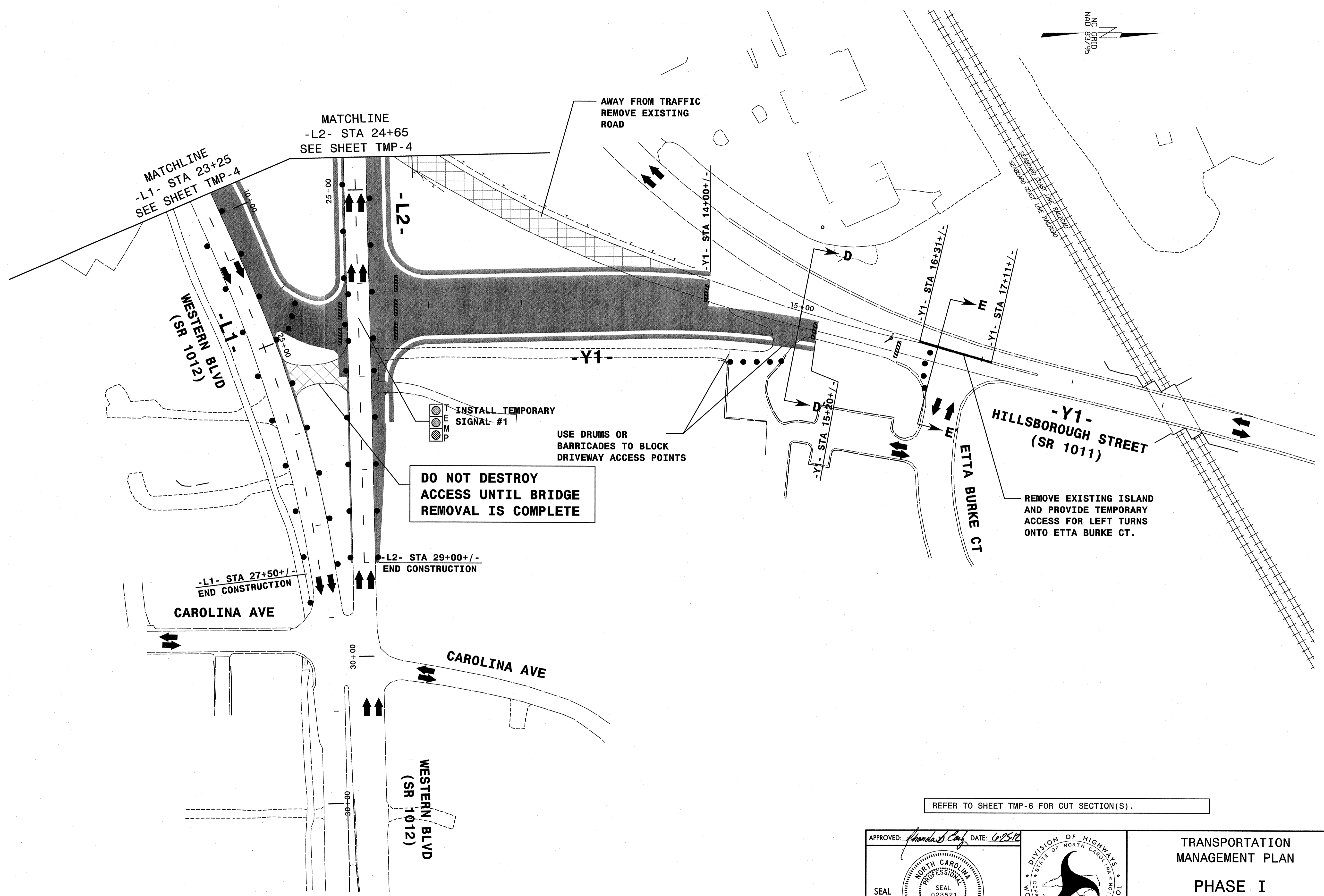
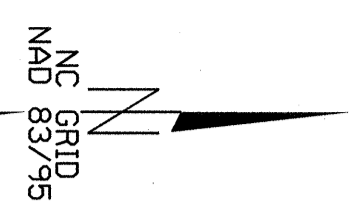


TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL

SHEET 1 OF 2

REFER TO SHEET TMP-6 FOR CUT SECTION(S).



**DO NOT DESTROY
ACCESS UNTIL BRIDGE
REMOVAL IS COMPLETE**

**REMOVE EXISTING ISLAND
AND PROVIDE TEMPORARY
ACCESS FOR LEFT TURNS
ONTO ETTA BURKE CT.**

**USE DRUMS OR
BARRICADES TO BLOCK
DRIVEWAY ACCESS POINTS**

**INSTALL TEMPORARY
SIGNAL #1**

**AWAY FROM TRAFFIC
REMOVE EXISTING
ROAD**

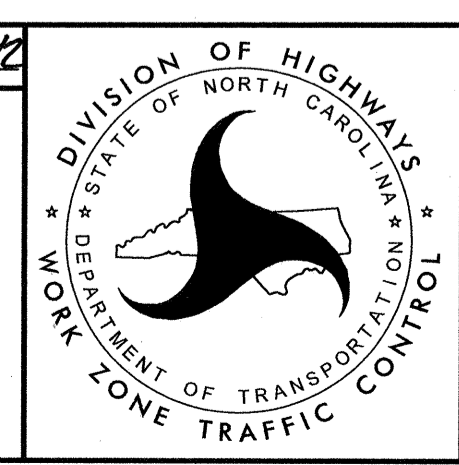
REFER TO SHEET TMP-6 FOR CUT SECTION(S).

REVISIONS

GAQC STAGE: _____
REVIEW: _____
CONCUR: _____
REVISE: _____
VERIFY: _____

APPROVED: *Aranda S. Coif* DATE: *10/25/12*

SEAL



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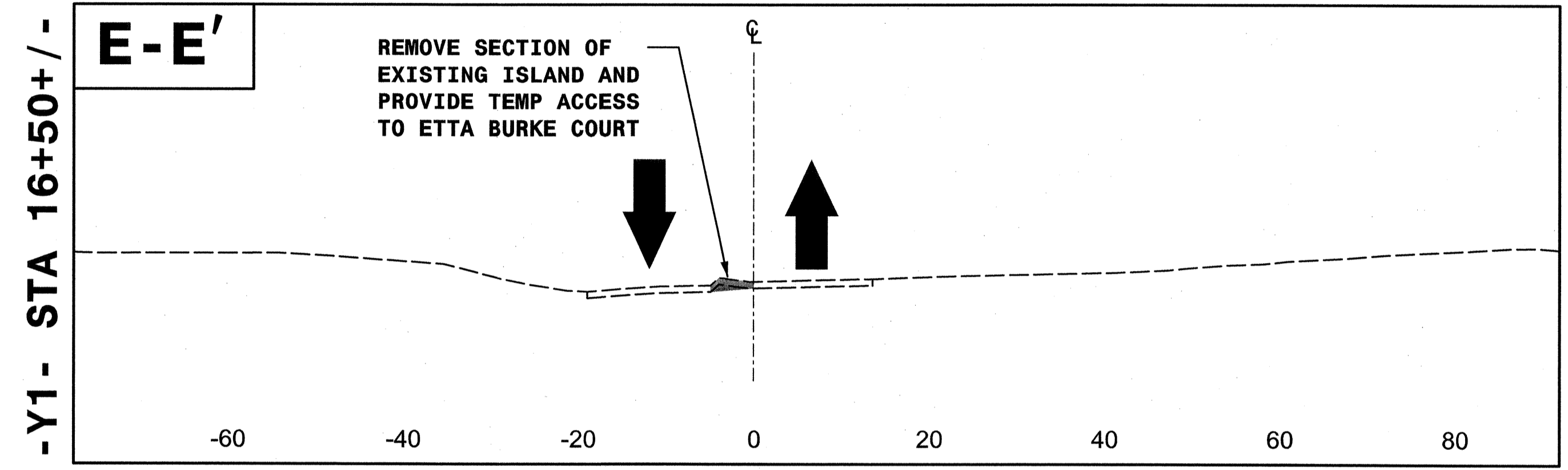
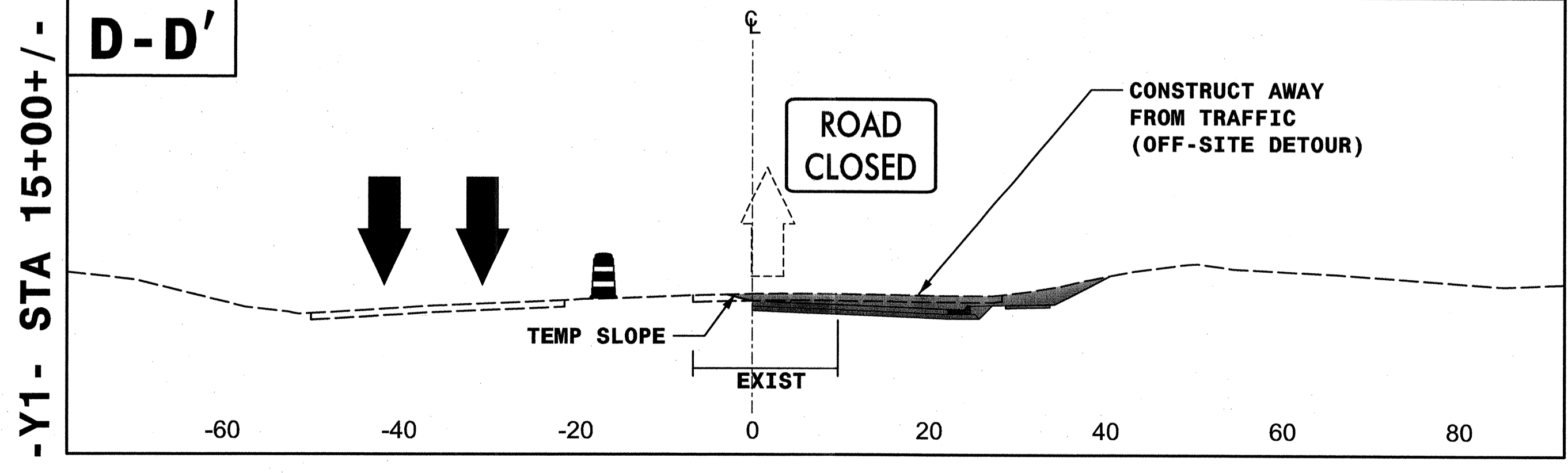
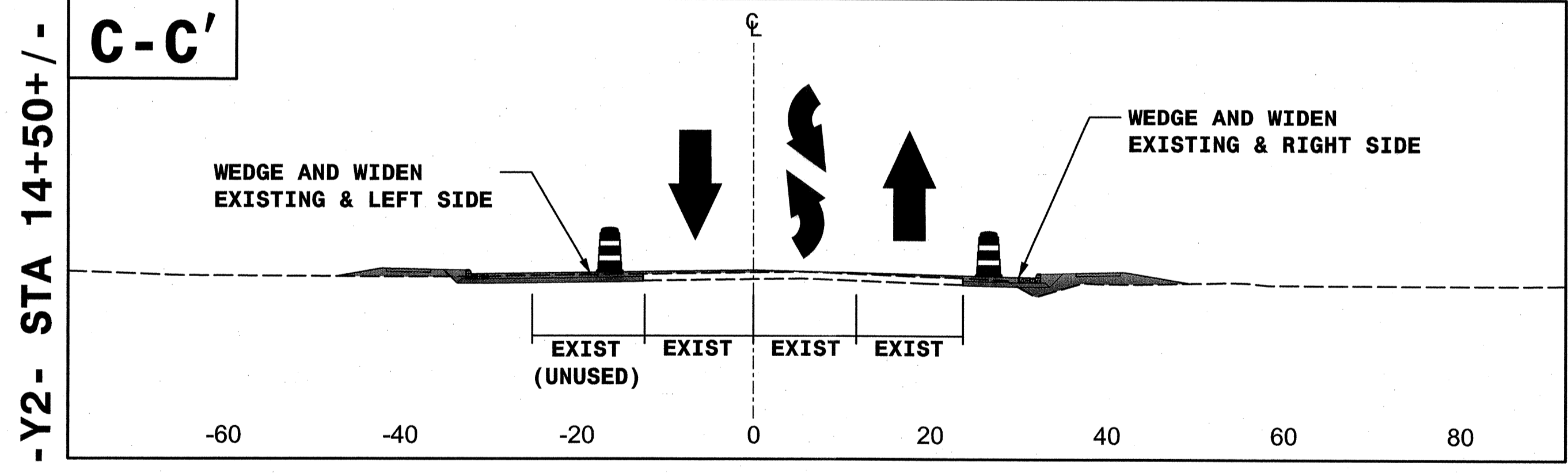
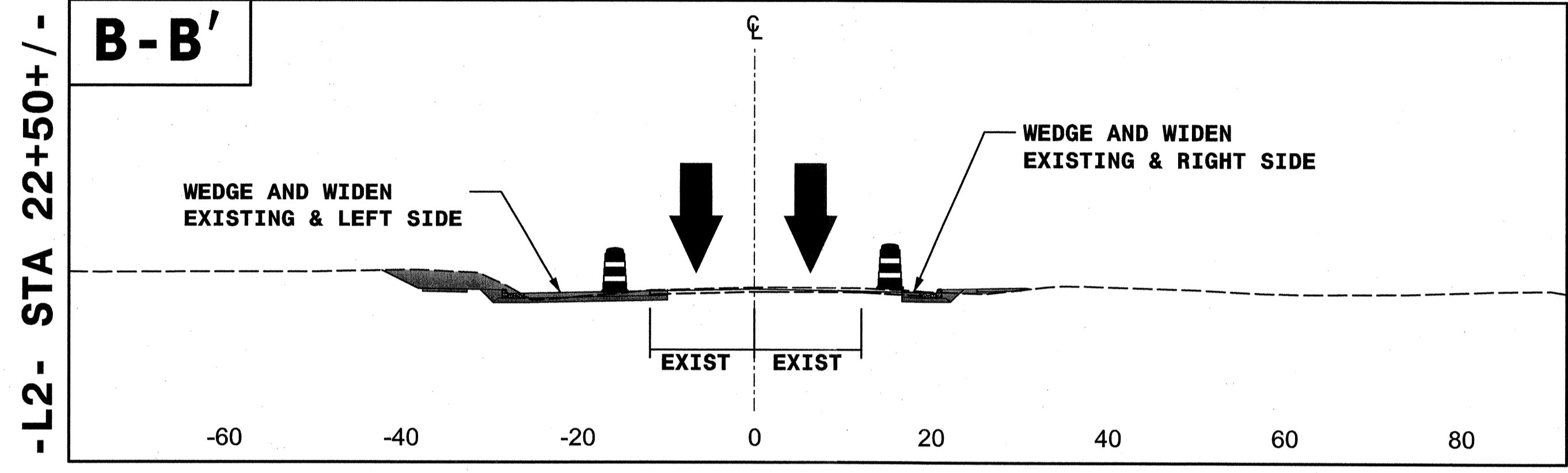
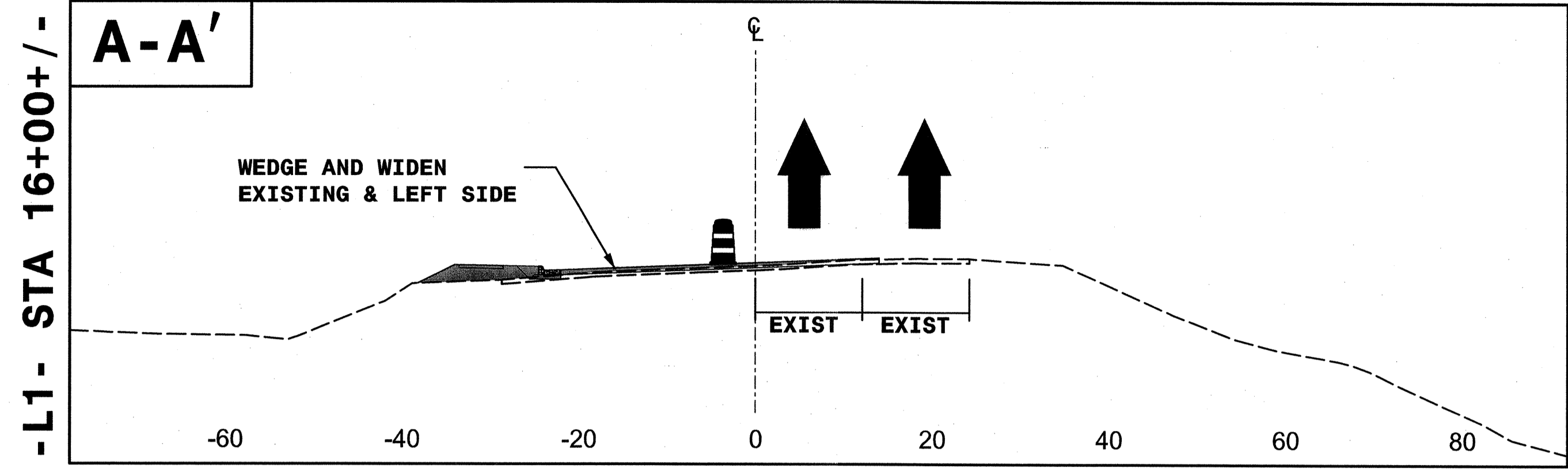
TRANSPORTATION
MANAGEMENT PLAN

**PHASE I
DETAIL**

SHEET 2 OF 2

8/17/99

8/17/99

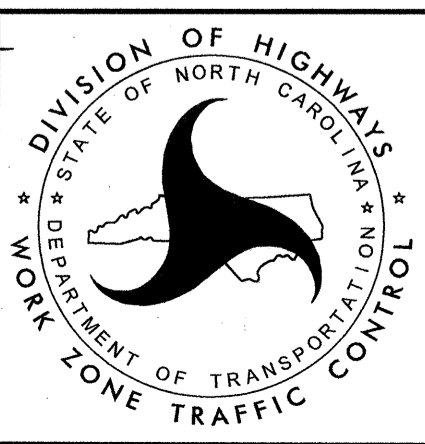


REVISIONS

QA/QC STAGE: _____
 REVIEW: _____
 CONCUR: _____
 REVISE: _____
 VERIFY: _____

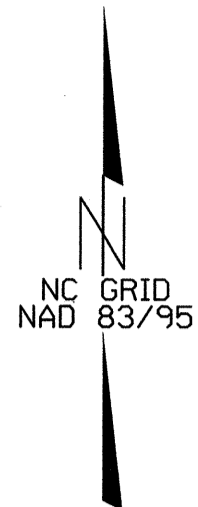
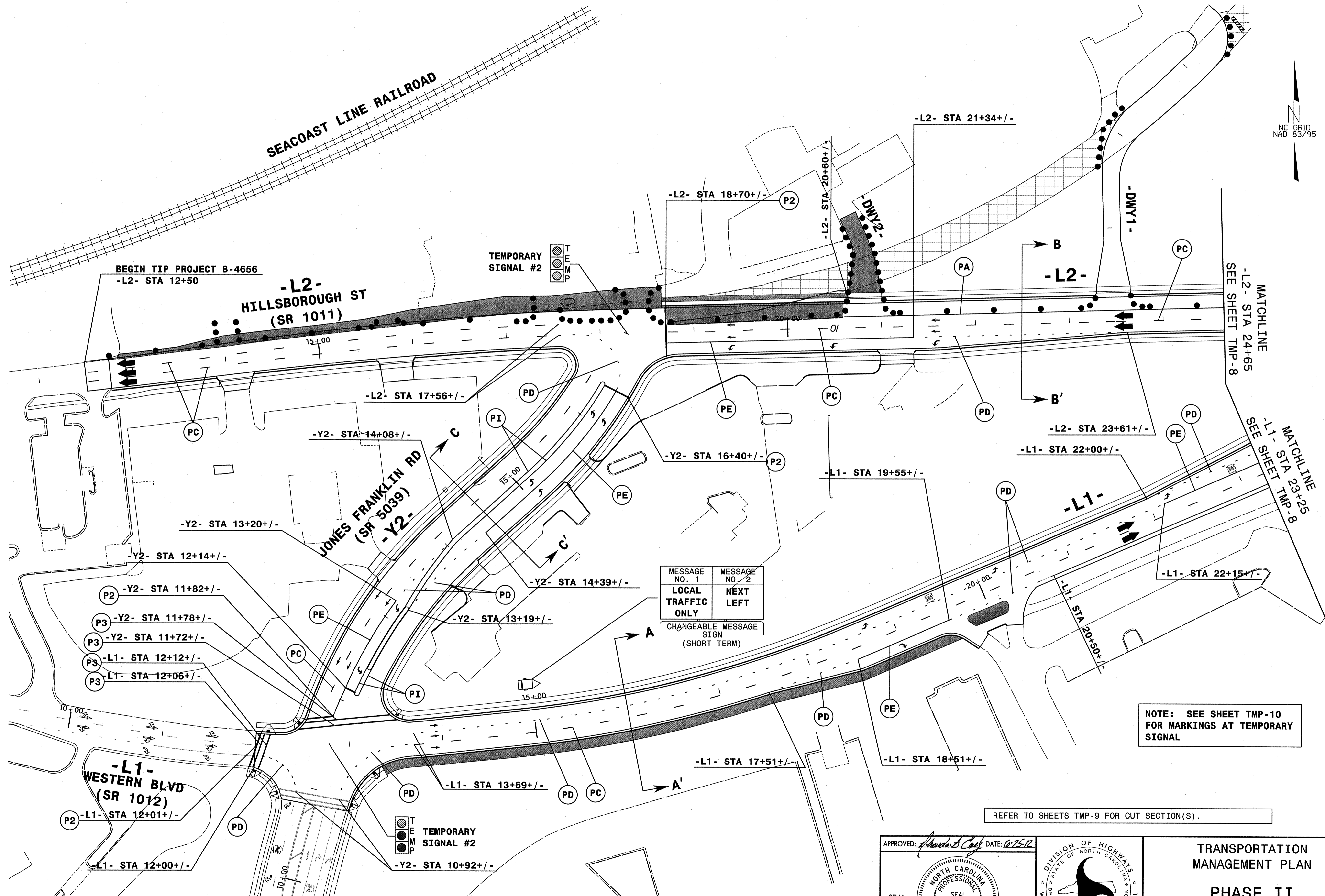
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 Raleigh, North Carolina 27609
 NC License No: C-1554

APPROVED: *Rhonda B. Earl* DATE: 10-25-12
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 023521
 RHONDA B. EARL



TRANSPORTATION MANAGEMENT PLAN
 PHASE I CUT SECTIONS

8/17/99



REVISIONS

QA/QC STAGE:
REVIEW:
CONCUR:
REVISE:
VERIFY:

MESSAGE NO. 1 LOCAL TRAFFIC ONLY	MESSAGE NO. 2 NEXT LEFT
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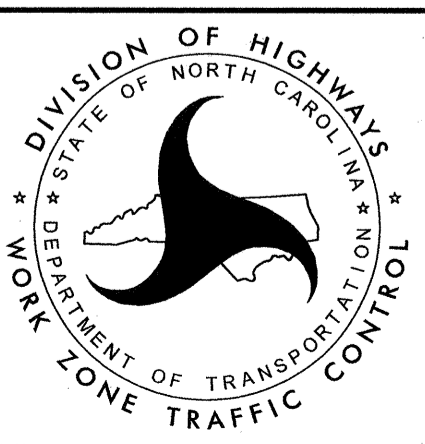
CHANGEABLE MESSAGE SIGN (SHORT TERM)

NOTE: SEE SHEET TMP-10 FOR MARKINGS AT TEMPORARY SIGNAL

REFER TO SHEETS TMP-9 FOR CUT SECTION(S).

APPROVED: *[Signature]* DATE: 6-25-12

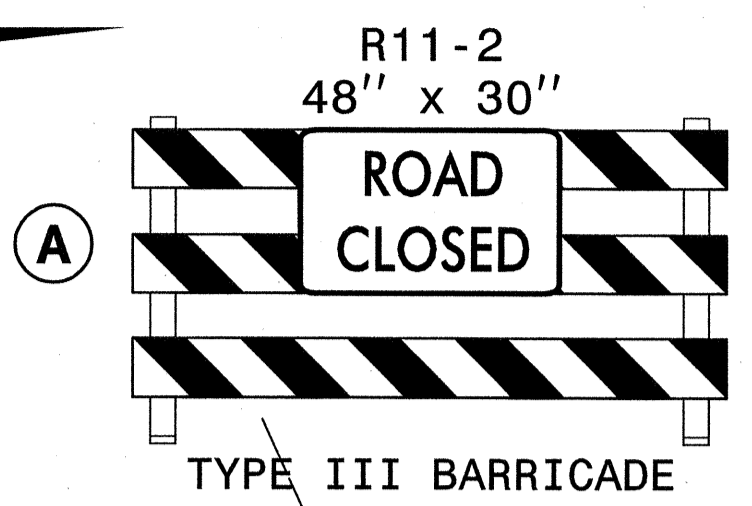
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
RHOWA B. EARLY
SEAL 023521



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TRANSPORTATION MANAGEMENT PLAN
PHASE II
DETAIL
SHEET 1 OF 2

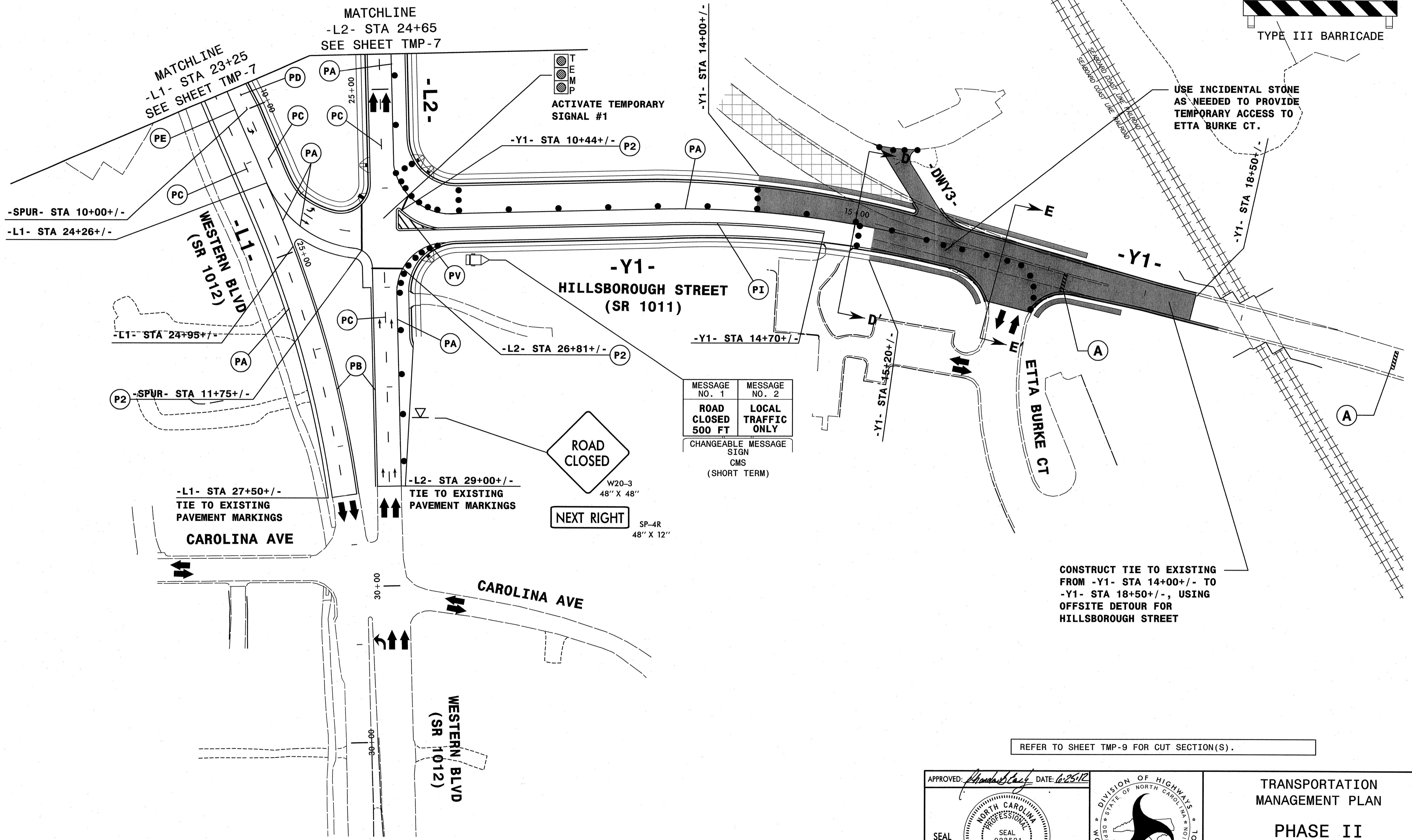
NC GRID
NAD 83/95



USE INCIDENTAL STONE AS NEEDED TO PROVIDE TEMPORARY ACCESS TO ETTA BURKE CT.

CONSTRUCT TIE TO EXISTING FROM -Y1- STA 14+00+/- TO -Y1- STA 18+50+/-, USING OFFSITE DETOUR FOR HILLSBOROUGH STREET

REFER TO SHEET TMP-9 FOR CUT SECTION(S).



REVISIONS

QA/QC STAGE:

REVIEW:
CONCUR:
REVISE:
VERIFY:

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APPROVED: *Rhonda B. Early* DATE: 6/25/12

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
RMONDA B. EARLY
023521

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

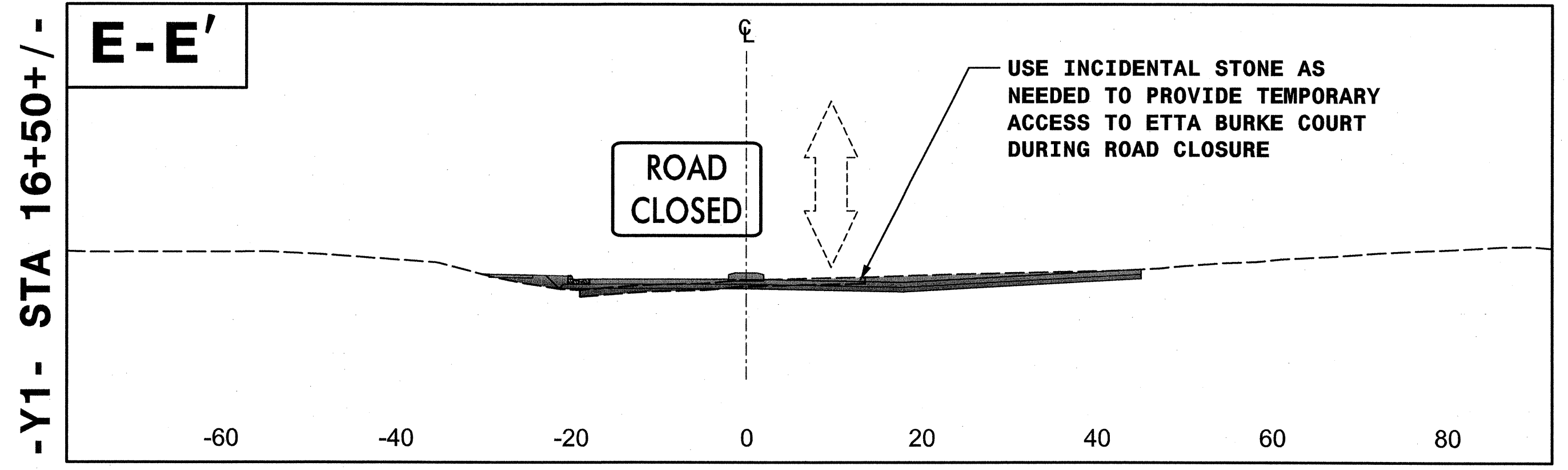
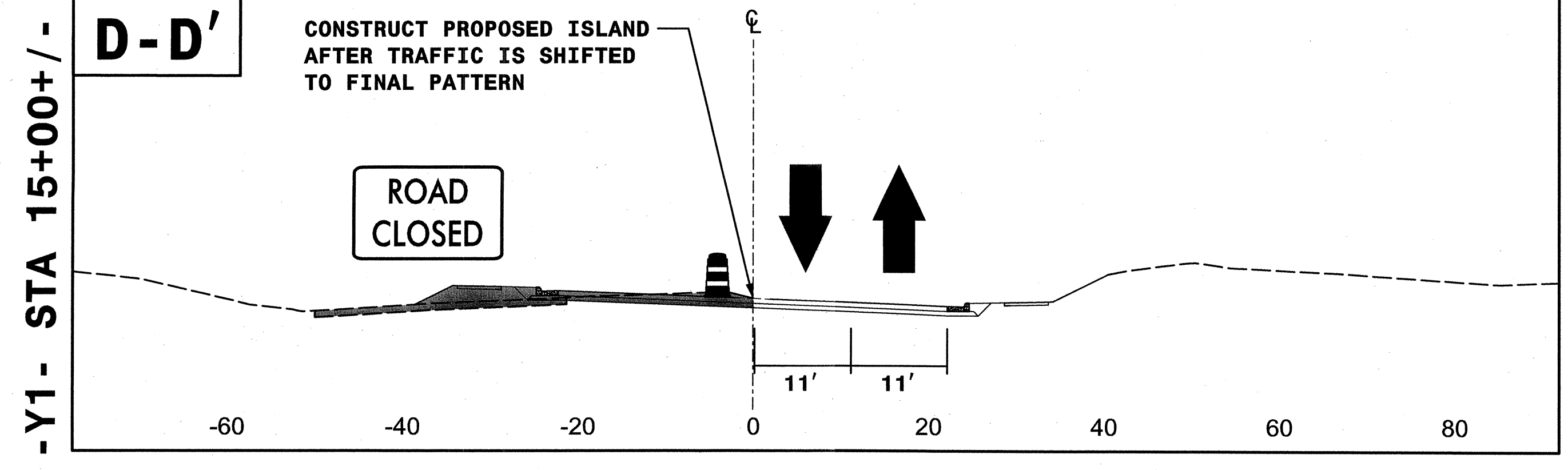
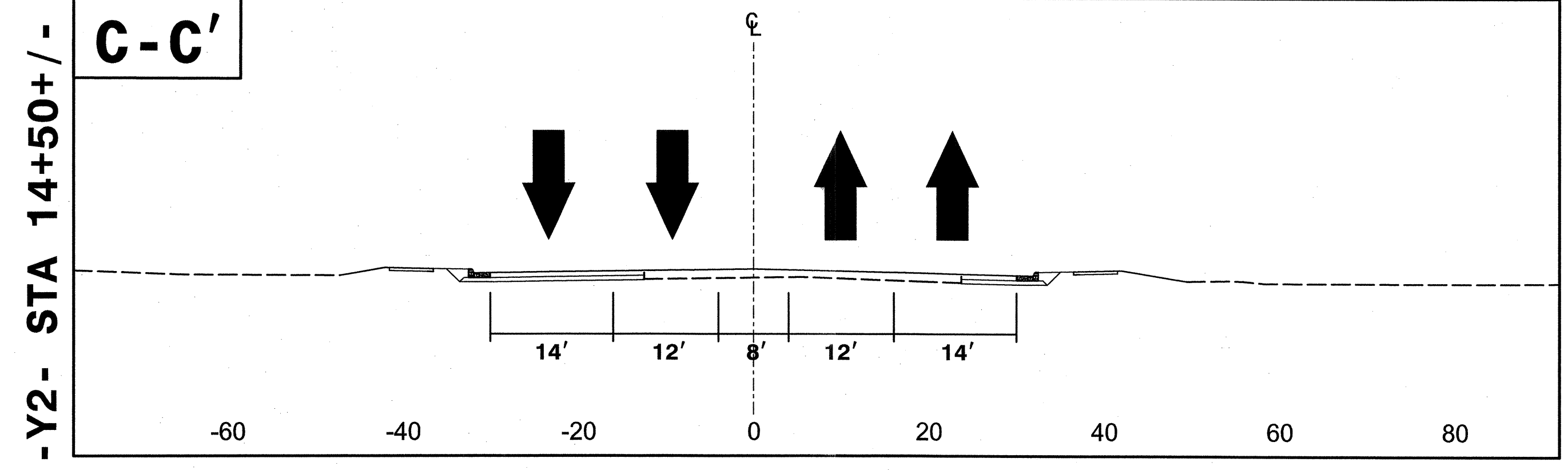
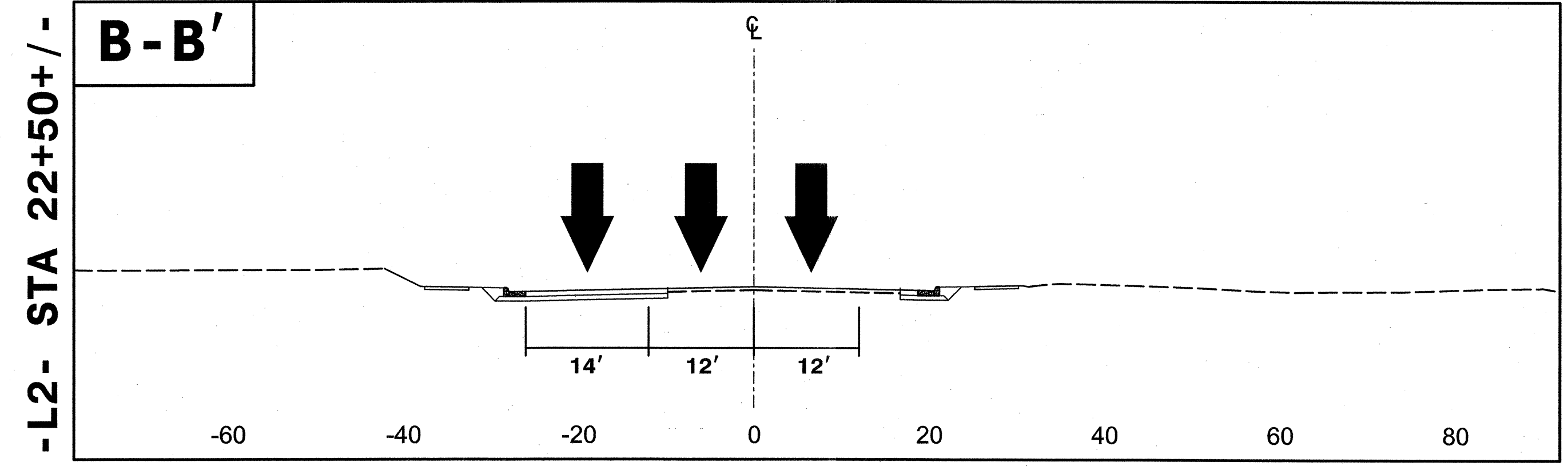
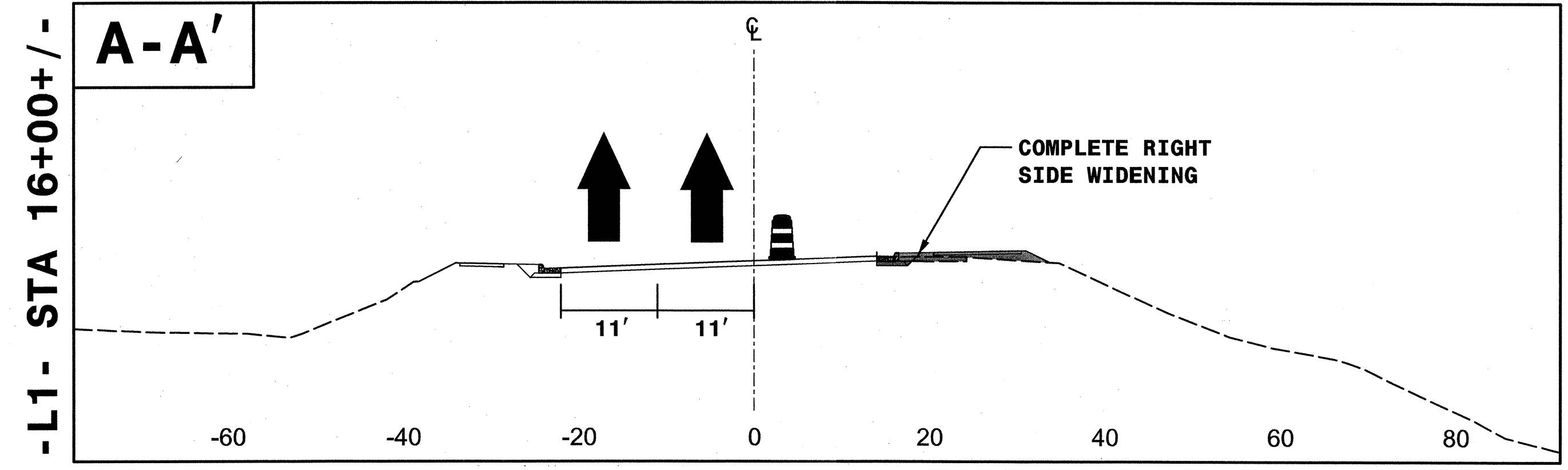
TRANSPORTATION MANAGEMENT PLAN

PHASE II
DETAIL

SHEET 2 OF 2

8/17/99

8/17/99



REVISIONS

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REVIEW: _____

CONCUR: _____

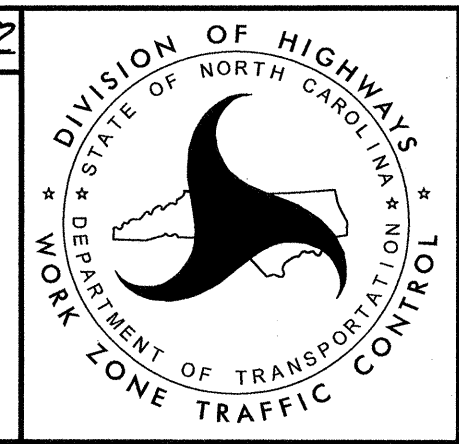
REVISE: _____

VERIFY: _____

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TRANSPORTATION MANAGEMENT PLAN

PHASE II CUT SECTIONS