

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
U-3613B	TCP-1

PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
PITT 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
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1135.01	CONES
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
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
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND INDEX OF SHEETS
TCP-2	TEMPORARY PAVEMENT MARKING SCHEDULE
TCP-3 THRU 3A	PROJECT NOTES
TCP-4 THRU 4A	PHASING
TCP-5 THRU 18, 32	PHASE I DETAIL
TCP-20 THRU 31, 33 THRU 36	PHASE II DETAIL
TCP-37	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS
TCP-38	REPLACEMENT DETAIL FOR RSD 1130.01
TCP-39	REPLACEMENT DETAIL FOR RSD 1145.01
PM-1 THRU 7	FINAL PAVEMENT MARKING PLAN

LEGEND

GENERAL

	DIRECTION OF TRAFFIC FLOW
	NORTH ARROW
	PROPOSED PVMT. - - - - - EXIST. PVMT.
	WORK AREA
	REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

	TYPE III BARRICADE
	CONE
	DRUM
	FLASHING ARROW PANEL (TYPE C)
	STATIONARY SIGN
	PORTABLE SIGN
	WARNING FLAGS
	CRASH CUSHION
	CHANGEABLE MESSAGE SIGN
	TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
	FLAGGER

PAVEMENT MARKINGS

	CRYSTAL/CRYSTAL PAVEMENT MARKER
	YELLOW/YELLOW PAVEMENT MARKER
	CRYSTAL/RED PAVEMENT MARKER
	PAVEMENT MARKING SYMBOLS

U-3613B

TIP PROJECT:

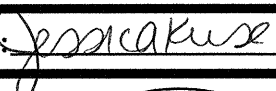
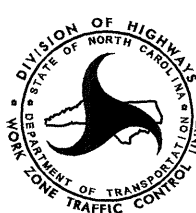
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APPROVED: <u>Jessica Kuse</u> DATE: <u>3/30/06</u>	PLAN PREPARED BY: N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION UNIT
SEAL 	J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
	J. S. KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
	J. D. KUSE, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	R. M. GARRETT TRAFFIC CONTROL DESIGN ENGINEER

Temporary Pavement Marking Schedule

SYMBOL	DESCRIPTION		PAY ITEM QUANTITY BREAKDOWN		TOTAL QUANTITY
TEMPORARY PAVEMENT MARKINGS					
PAINT (4")					
PA	WHITE EDGELINE (2X)		89278	LF	
PC	10 FT. WHITE SKIP (2X)		1278	LF	
PD	2 FT. WHITE MINISKIP (2X)		1207	LF	
PE	WHITE SOLID LANE LINE (2X)		9630	LF	
PF	10 FT. YELLOW SKIP (2X)		162	LF	
PG	2 FT. YELLOW MINISKIP (2X)		80	LF	
PI	YELLOW DOUBLE CENTER (2X)		123092	LF	
			TOTAL	224727	LF
PAINT (8")					
PS	WHITE DIAGONAL (2X)		494	LF	
PV	YELLOW DIAGONAL (2X)		884	LF	
			TOTAL	1378	LF
PAINT (12")					
P1	WHITE GORELINE (2X)		1600	LF	
			TOTAL	1600	LF
PAINT (16")					
P3	WHITE LINE, RR X (2X)		344	LF	
			TOTAL	344	LF
PAINT (24")					
P4	WHITE STOPBAR (2X)		2836	LF	
			TOTAL	2836	LF
PAINT MARKING CHARACTERS					
QI	ALPHANUMERIC CHAR. (2X)		14	EA	
			TOTAL	14	EA
PAINT MARKING SYMBOLS					
QA	LEFT TURN ARROW (2X)		78	EA	
QB	RIGHT TURN ARROW (2X)		44	EA	
QC	STRAIGHT ARROW (2X)		44	EA	
QD	COMBO.STRAIGHT/LEFT (2X)		16	EA	
QE	COMBO.STRAIGHT/RIGHT (2X)		38	EA	
QF	COMBO.LEFT/RIGHT (2X)		2	EA	
QG	LEFT/RIGHT/STRAIGHT (2X)		10	EA	
			TOTAL	232	EA
MARKERS					
TEMPORARY RAISED PAVEMENT MARKERS					
MH	YELLOW & YELLOW		869	EA	
MI	CRYSTAL & RED		620	EA	
			TOTAL	1489	EA

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APPROVED:  DATE: 3/31/06	TEMPORARY PAVEMENT MARKING SCHEDULE	
	SCALE: NONE	
	DATE: 07/05	
	DWG. BY: RMG	
	DESIGN BY: RMG	
	REVIEWED BY: JDK	
	REVISIONS	

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

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

TIME RESTRICTIONS

A1) THE MAJORITY OF WORK ON THIS PROJECT MAY BE COMPLETED AWAY FROM TRAFFIC. DURING THE OCCURRENCES WHERE A 2-LANE, 2-WAY TRAFFIC PATTERN CAN NOT BE MAINTAINED (SEE GENERAL NOTES E AND F)THE FOLLOWING TIME RESTRICTIONS APPLY:

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- SR 1708 (FIRETOWER RD.)	6:00 A.M. - 8:00 P.M. MONDAY - SUNDAY
-Y6- (EVANS RD. / OLD TAR RD.)	6:00 A.M. - 8:00 P.M. MONDAY - SUNDAY

A2) DURING THE OCCURRENCES WHERE A 4-LANE, 2-WAY TRAFFIC PATTERN CAN NOT BE MAINTAINED (SEE GENERAL NOTES E AND F)THE FOLLOWING TIME RESTRICTIONS APPLY:

ROAD NAME	DAY AND TIME RESTRICTIONS
-Y1- NC 11/NC 903 (MEMORIAL BLVD.)	6:00 A.M. - 8:00 P.M. MONDAY - SUNDAY

B) THE CONTRACTOR SHALL MAINTAIN A 2-LANE, 2-WAY TRAFFIC PATTERN ON -L- SR 1708 (FIRETOWER RD.) AND -Y6- (EVANS RD. / OLD TAR RD.) AND A 4-LANE, 2-WAY TRAFFIC PATTERN ON -Y1- NC 11/NC 903 (MEMORIAL BLVD.) ON OR DURING HOLIDAY WEEKENDS, SPECIAL EVENTS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY, INCLUDING THE FOLLOWING SCHEDULES:

HOLIDAY

- FOR ANY EVENT 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 8:00 P.M. JANUARY 2ND. IF NEW YEAR’S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A SATURDAY OR SUNDAY, THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

C) 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.

GENERAL NOTES

- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 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.
- E) 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.

- F) 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.
- G) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.
- H) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.
- I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON FIRETOWER ROAD.

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 A 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 2.0 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING *UNEVEN LANES* SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY 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 NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- N) PROVIDE PERMANENT SIGNING.
- O) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- P) 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) 500 FT IN ADVANCE OF THE UNEVEN AREA.
- S) INSTALL BLACK ON ORANGE "BUMP" SIGNS (W8-1) 500 FT 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 SHOWN IN THE PLANS.

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 NO GREATER THAN TWICE 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, SHEET 1 OF 7 DRUMS MAY BE USED IN LIEU OF CONES ON FIRETOWER ROAD.

W) 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.

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.

Y) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
-L- SR 1708 FIRETOWER RD.	THERMOPLASTIC	SNOWPLOWABLE
ALL -Y- LINES	"	

APPROVED: <u>Jessica Kuse</u> DATE: <u>3/30/03</u>		PROJECT NOTES	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 06/04		
	DWG. BY: RMG		
	DESIGN BY: RMG		
	REVIEWED BY: JDK		CADD FILE

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PROJ. REFERENCE NO.	SHEET NO.
U-3613B	TCP-3A

GENERAL NOTES (CONT'D)

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

ROAD NAME	MARKING	MARKER
-L- SR 1708 FIRETOWER RD.	PAINT	TEMPORARY RAISED
ALL -Y- LINES	"	"

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

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

DD) TRACE THE EDGE OF PROPOSED MONOLITHIC ISLANDS WITH THE PROPER COLOR PAVEMENT MARKING PRIOR TO INSTALLATION OF A PROPOSED MONOLITHIC ISLAND.

EE) 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

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

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

MISCELLANEOUS

HH) 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) 500 FT AND 1000 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

II) PLACE DRUMS TO DELINEATE PROPOSED ISLANDS BEFORE INSTALLATION.

LOCAL NOTES

THE FOLLOWING LOCAL NOTES APPLY WHEN SPECIFIED BY TRAFFIC CONTROL PHASING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

- 1) TRAFFIC SHALL NOT BE STOPPED FOR MORE THAN 15 MINUTES WHILE SHIFTING TRAFFIC ON ANY ROAD.
- 2) WHEN CONSTRUCTING DRAINAGE STRUCTURES ADJACENT TO OR WITHIN EXISTING TRAVEL LANES, FURNISH AND INSTALL TEMPORARY STEEL PLATES, AS DIRECTED BY THE ENGINEER, AND CONSTRUCT THOSE DRAINAGE STRUCTURES IN THE FOLLOWING SEQUENCE. EACH LOCATION MAY BE DONE INDEPENDENTLY OR CONCURRENTLY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WORK IN A CONTINUOUS MANNER TO PERFORM THE FOLLOWING STEPS A THROUGH E:

A) USING RSD 1101.02, SHEET 1 OF 7, CLOSE THE APPROPRIATE TRAVEL LANE TO TRAFFIC.

B) CONSTRUCT THE PROPOSED DRAINAGE STRUCTURE OR INSTALL PRE-CAST DRAINAGE STRUCTURE AS SHOWN IN THE ROADWAY PLANS AND COVER WITH METAL PLATES TO PROTECT STRUCTURE DURING THE CURING PROCESS.

C) OPEN THE TRAVEL LANE TO EXISTING TRAFFIC PATTERN BY THE END OF THE WORK PERIOD.

D) WHEN PROPERLY CURED, USE RSD 1101.02, SHEET 1 OF 7, AND CLOSE THE APPROPRIATE TRAVEL LANE TO TRAFFIC AND BACKFILL AND PAVE, IF REQUIRED, UP TO THE EXISTING EDGE AND ELEVATION OF EXISTING PAVEMENT.

E) OPEN THE TRAVEL LANE TO THE EXISTING TRAFFIC PATTERN BY THE END OF THE WORK PERIOD.

3) COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

4) POLICE ARE TO BE UTILIZED AT THE FOLLOWING INTERSECTIONS DURING CONSTRUCTION OPERATIONS REQUIRING TEMPORARY SHIFTS IN TRAFFIC PATTERNS:

-Y1- (NC11 / MEMORIAL BLVD.) @ -L- (FIRETOWER RD.)
-L- (FIRETOWER RD.) @ -Y6- (OLD TAR RD.)
-L- (FIRETOWER RD.) @ -Y14- (COREY RD.)

5) FLAGGERS ARE TO BE UTILIZED AT ALL MINOR -Y- LINE INTERSECTIONS TO ASSIST IN MAINTENANCE OF TRAFFIC THROUGH THE INTERSECTION AS DIRECTED BY THE ENGINEER.

THE DEPARTMENT WILL PAY FOR ALL FLAGGERS THAT ARE USED IN CONJUNCTION WITH A LANE CLOSURE AND MAINTENANCE OF TRAFFIC THROUGH INTERSECTIONS. OTHER FLAGGING OPERATIONS NOT INVOLVING THE WORK DESCRIBED ABOVE WILL BE CONSIDERED INCIDENTAL TO THAT OPERATION AND NO PAYMENT WILL BE MADE.

6) USING INCIDENTAL STONE AS NECESSARY, 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.

APPROVED: <i>Jessica D. Kuse</i> DATE: 3/30/06		PROJECT NOTES	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 06/04		
	DWG. BY: RMG		
	DESIGN BY: RMG		
	REVIEWED BY: JDK		

PHASE I

PROJ. REFERENCE NO.	SHEET NO.
U-3613B	TCP-4

- STEP 1 - INSTALL WORK ZONE ADVANCE WARNING SIGNS IN ACCORDANCE WITH DETAILS SHOWN ON SHEET TCP-37.
- AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF THE FOLLOWING: INCLUDING CLEARING AND GRUBBING, DRAINAGE AND UTILITY RELOCATIONS (SEE ROADWAY PLANS).
- STEP 2 - USING ROADWAY STANDARD DRAWING 1101.02, SHEETS 1 AND 2 OF 7 CONSTRUCT TEMPORARY DRAINAGE PIPES AND TEMPORARY PAVEMENT ALONG THE EASTBOUND LANES OF -L- (FIRETOWER RD.) IN THE LOCATIONS DEPICTED ON SHEETS TCP-5, TCP-6 AND TCP-7 TOGETHER WITH ROADWAY SHEET 3-0. (SEE LOCAL NOTES 4 & 5)
- REMOVE TEMPORARY LANE CLOSURES AT THE END OF EACH WORKDAY AND RESTORE TRAFFIC TO EXISTING PATTERNS.
- STEP 3 - INSTALL AND COVER OFF-SITE DETOUR SIGNS FOR CLOSURE OF -Y- (PITT TECH RD.) (SEE SHEET TCP-32)
- INSTALL AND COVER TEMPORARY PHASE I TRAFFIC SIGNALS ON -L- (FIRETOWER RD.)AT THE FOLLOWING LOCATIONS: (SEE SIGNAL PLANS)
- Y1- NC11 (MEMORIAL BLVD.)
-Y6- SR 1700 (OLD TAR RD.)
-Y14- SR 1709 (COREY RD.)
- BEGIN INSTALLATION OF FINAL TRAFFIC SIGNALS ON -L- (FIRETOWER RD.)AT THE FOLLOWING LOCATIONS: (SEE SIGNAL PLANS)
- L-(FIRETOWER RD.) @ -Y1- (NC 11 / MEMORIAL DR.)
-L-(FIRETOWER RD.) @ -Y6- (SR 1700 OLD TAR RD.)
-L-(FIRETOWER RD.) @ -Y8- (PINE BRANCH RD.)
-L-(FIRETOWER RD.) @ -Y10- (BAYSWATER RD.)
-L-(FIRETOWER RD.) @ -Y12- (EVANS DR. / ASHCROFT DR.)
-L-(FIRETOWER RD.) @ -Y14- (SR 1709 COREY RD.)

NOTE: ENSURE NECESSARY ADJUSTMENTS TO EXISTING R/R SIGNALS ARE IN PLACE AND ACTIVATED 21 DAYS PRIOR TO HANDLING PHASE I -L- WESTBOUND TRAFFIC PATTERN.

COMPLETE THE WORK REQUIRED IN PHASE I, STEP 4 THROUGH 6 FROM 8:00 P.M. ON A FRIDAY TO 6:00 A.M. THE FOLLOWING MONDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 4 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 PROCEED WITH THE FOLLOWING:
- REMOVE EXISTING EASTBOUND PAVEMENT MARKINGS INCLUDING EXISTING CENTER LANE MARKINGS AND SYMBOLS.
- INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FROM STA. 12+00 -L- TO STA. 151+70. (SEE SHEETS TCP-8 THROUGH TCP-17).(SEE LOCAL NOTES 4 & 5)
- SHIFT EASTBOUND TRAFFIC INTO THE NEW PATTERN. (SEE LOCAL NOTES 1 & 4 ON SHEET TCP-3A)
- STEP 5 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 4 OF 7 CLOSE THE INSIDE (LEFT) EASTBOUND LANE AND CENTER LANE FROM -L- STA. 151+70 TO STA. 177+50 AND REMOVE EXISTING MARKINGS AND SYMBOLS AND INSTALL TEMPORARY MARKINGS AND MARKERS.(SEE SHEET TCP-18)
- USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 7 INSTALL TEMPORARY MARKINGS, MARKERS AND DEVICES NECESSARY TO CLOSE THE OUTSIDE (RIGHT) WESTBOUND LANE OF -L- (FIRETOWER RD.)TOGETHER WITH THE PATTERN TO SHIFT THE WESTBOUND LANE INTO THE CENTER TEMPORARY LANE FROM -L- STA. 151+70 TO STA. 177+50.(SEE SHEET TCP-18)
- UNCOVER AND ACTIVATE TEMPORARY SIGNALS ON -L- AT -Y1, -Y6- AND -Y14- AND SHIFT WESTBOUND TRAFFIC INTO THE TEMPORARY PHASE I PATTERN FROM -L- STA 12+00+/- TO -L- STA 151+70+/- . (SEE SHEETS TCP-8 TROUGH TCP-18)

- STEP 6 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 7 CHANGE THE RIGHT NORTHBOUND THROUGH LANE ALONG -Y1- (NC 11) AT THE INTERSECTION WITH -L- (FIRETOWER RD.)TO A RIGHT TURN ONLY AND CLOSE THE RIGHT NORTHBOUND LANE OF -Y1- NORTH OF -L- (FIRETOWER RD.). (SEE SHEET TCP-11) (SEE LOCAL NOTE 4)
- INSTALL WATER FILLED BARRIER AT THE FOLLOWING LOCATIONS: (SEE SHEETS TCP-11 THROUGH TCP-13)
- Y1- STA. 19+80+/- TO -L- STA. 18+50+/-
-L- STA. 36+20+/- TO STA. 42+50+/-
-L- STA. 45+20+/- TO STA. 49+20+/-
- STEP 7 - CLOSE -Y- (PITT TECH RD.) AT -L- TO TRAFFIC, UNCOVER OFF-SITE DETOUR SIGNS AND PLACE -Y- IN AN OFF-SITE DETOUR.(SEE SHEETS TCP-11 AND TCP-32) (SEE LOCAL NOTE 1)
- PLACE DRUMS FORMING THE PHASE I TRAFFIC PATTERN AND ESTABLISHING THE CONSTRUCTION AREA ALONG WESTBOUND -L- (FIRETOWER RD.)FROM -L- STA. 12+00 TO STA. 15+95 +/- . (SEE SHEET TCP-11)
- USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 WEDGE WESTBOUND -L- STA. 12+00 TO STA. 15+95+/- . INSTALL TEMPORARY PAVEMENT MARKINGS AND PAVEMENT MARKERS. (SEE SHEETS TCP-10, TCP-11 AND ROADWAY PLANS)

- STEP 8 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 (AND POLICE AT THE SIGNALIZED INTERSECTION) AS NEEDED CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE: (SEE SHEETS TCP-8 THROUGH TCP-17 AND ROADWAY PLANS) (SEE LOCAL NOTES 2, 4, 5 & 6)
- L- STA. 12+00+/- TO STA. 151+70+/- PROPOSED WB LANES
-Y- STA. 10+00+/- TO STA. 11+20+/-
-Y1- STA. 18+64+/- TO STA. 22+08+/-
-Y2- STA. 10+00+/- TO STA. 11+67+/-
-Y6- STA. 14+51+/- TO STA. 18+47+/-
-Y9- STA. 10+05+/- TO STA. 11+00+/-
-Y12A- STA. 10+05+/- TO STA. 10+72+/-
-Y15- STA. 10+13+/- TO STA. 10+85+/-
- USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 INSTALL PORTABLE CONCRETE BARRIER AND CRASH CUSHIONS AT THE FOLLOWING LOCATION: (SEE GENERAL NOTES T & U AND SHEET TCP-12)
- L- STA. 32+53+/- TO STA. 34+53+/-

- INSTALL TEMPORARY SHORING FROM -L- STA. 33+20+/-, 3.5' RT TO STA. 33+80+/-, 3.5' RT AND BEGIN PHASE I OF PROPOSED 10' x 8' RCB CULVERT. (SEE SHEET TCP-12, STRUCTURE AND ROADWAY PLANS)
- CONSTRUCT TEMPORARY SHORING (FABRIC WALL) FROM -L- STA. 33+18+/-,2.5' LT TO STA. 33+82+/-, 2.5' LT FOR USE DURING PHASE II CULVERT CONSTRUCTION. (SEE SHEET TCP-12)
- CONSTRUCT THE NORTHERN EXTENSION OF THE EXISTING CULVERT AT -L- STA. 135+00+/- (SEE SHEET TCP-16, STRUCTURE AND ROADWAY PLANS).

- STEP 9 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AS NEEDED INSTALL PORTABLE CONCRETE BARRIER (ANCHORED)AND CRASH CUSHIONS AT THE FOLLOWING LOCATION: (SEE SHEET TCP-22)
- L- STA. 32+51+/- TO STA. 34+51+/-
- AWAY FROM TRAFFIC AND BEHIND DRUMS BEGIN INSTALLATION OF PAVEMENT MARKINGS AND MARKERS ESTABLISHING THE PHASE II TRAFFIC PATTERNS. (SEE SHEETS TCP-19 THROUGH TCP-28)

NOTE: ENSURE NECESSARY ADJUSTMENTS TO EXISTING R/R SIGNALS ARE IN PLACE AND ACTIVATED 21 DAYS PRIOR TO HANDLING PHASE II -L- WESTBOUND TRAFFIC PATTERN.

COMPLETE THE WORK REQUIRED IN PHASE I, STEP 11 FROM 8:00 P.M. ON A FRIDAY TO 6:00 A.M. THE FOLLOWING MONDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 11 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AS NEEDED WEDGE -L- (FIRETOWER RD.) PAVEMENT TO ESTABLISH PHASE II TRAFFIC PATTERNS AT THE FOLLOWING LOCATIONS: (SEE SHEETS TCP-24A, TCP-27, TCP-28 AND ROADWAY PLANS) (SEE LOCAL NOTES 2 THROUGH 4)

-L- STA. 75+00+/- TO STA. 88+71+/-
-L- STA. 140+00+/- TO STA. 151+70+/-

- USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AND POLICE AS NEEDED INSTALL TEMPORARY MARKINGS, MARKERS AND DEVICES NECESSARY TO ESTABLISH THE PHASE II TRAFFIC PATTERNS OF -L- (FIRETOWER RD.)FROM -L- STA. 151+70+/- TO STA. 177+50+/- (SEE SHEET TCP-29)

- INSTALL ALL REMAINING TEMPORARY PHASE II MARKINGS AND MARKERS ALONG -L- (FIRETOWER ROAD) AND INTERSECTING -Y- LINES.

- USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AS NEEDED ADJUST AND/OR INSTALL AND COVER (IF NEEDED) THE TEMPORARY TRAFFIC SIGNAL HEADS ON -L- (FIRETOWER RD.) AT THE FOLLOWING LOCATIONS TO COINCIDE WITH THE PHASE II TRAFFIC PATTERNS: (SEE SIGNAL PLANS)

-Y1- NC11 (MEMORIAL BLVD.)
-Y6- SR 1700 (OLD TAR RD.)
-Y14- SR 1709 (COREY RD.)
(SEE LOCAL NOTES 1, 4 & 5)

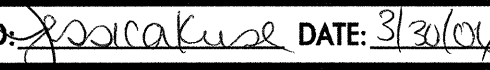
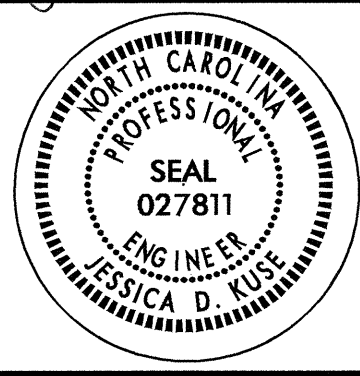
- USING ROADWAY STANDARD DRAWING SHEET 1 OF 7 AND POLICE AS NEEDED, ACTIVATE PHASE II TEMPOARY SIGNALS AND SHIFT -L- (FIRETOWER RD.) TRAFFIC INTO THE PHASE II TRAFFIC PATTERN. (SEE SHEETS TCP-19 THROUGH TCP-29) (SEE LOCAL NOTES 1 & 4)

- USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 7 CHANGE THE RIGHT NORTHBOUND THROUGH LANE ALONG -Y1- (NC 11) AT THE INTERSECTION WITH -L- (FIRETOWER RD.)TO A RIGHT TURN THROUGH MOVEMENT AND OPEN THE RIGHT NORTHBOUND LANE OF -Y1- NORTH OF -L- (FIRETOWER RD.). (SEE SHEET TCP-21)(SEE LOCAL NOTE 4)

- INSTALL WATER FILLED BARRIER AT THE FOLLOWING LOCATION: (SEE SHEET TCP-21)

-Y1- STA. 16+85+/- TO -L- STA. 18+64+/-

- REMOVE TRAFFIC CONTROL DEVICES FROM -Y- AND RELATED OFF-SITE DETOUR AND OPEN -Y- (PITT TECH RD.) TO TRAFFIC.

APPROVED:  DATE: 3/21/04	PHASING		
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PHASE II

- STEP 1 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 7:
- WEDGE -Y1- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON SHEET TCP-21. INSIDE LEFT TURN LANE ALONG SOUTHBOUND -Y1- AT -L- TO REMAIN CLOSED AT THIS TIME. (SEE LOCAL NOTE 4)
 - INSTALL PROPOSED MONOLITHIC MEDIAN ISLAND ALONG -Y1- AS SHOWN ON SHEET TCP-21 AND ROADWAY PLANS.

- STEP 2 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AND POLICE AS NEEDED CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE: (SEE SHEETS TCP-19 THROUGH TCP-28 AND ROADWAY PLANS) (SEE LOCAL NOTE 4)
- L- STA. 17+54+/- TO STA. 151+70+/- PROPOSED EB LANES
 - Y7- STA. 10+75+/- TO STA. 12+00+/-
 - Y8- STA. 10+00+/- TO STA. 12+00+/-
 - Y10- STA. 9+32+/- TO STA. 12+00+/-
 - Y13- STA. 10+85+/- TO STA. 11+97+/-
 - Y16- STA. 11+80+/- TO STA. 13+00+/-
- AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF THE PHASE II OF PROPOSED 10' x 8' RCB CULVERT AT -L- STA. 33+50+/-.(SEE SHEET TCP-22, STRUCTURE AND ROADWAY PLANS)
- AWAY FROM TRAFFIC BEGIN THE CONSTRUCTION OF THE SOUTHERN EXTENSION OF THE EXISTING CULVERT AT -L- STA. 135+00+/- AS SHOWN ON SHEET TCP-27, STRUCTURE AND ROADWAY PLANS.
- AWAY FROM TRAFFIC:
- BEGIN INSTALLATION OF THE PROPOSED CONCRETE MEDIANS LESS THOSE PORTIONS REQUIRED TO PROVIDE EXISTING DRIVEWAY ACCESS.
 - BEGIN INSTALLATION OF THE REMAINING DRAINAGE ALONG -L- FROM STA. 17+30+/- TO STA. 151+70+/-.(SEE ROADWAY PLANS) (SEE LOCAL NOTE 2)

NOTE:-Y4- & -Y5- ARE NOT TO BE CLOSED AT THE SAME TIME.

- CLOSE -Y5- AS SHOWN ON SHEET TCP-24 TO TRAFFIC MAINTAINING ACCESS THROUGH -Y4- AND WEDGE -Y5- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE AND INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y5- AS SHOWN ON TCP-30.
 - REOPEN -Y5- TO TRAFFIC.
 - CLOSE -Y4- AS SHOWN ON TCP-30 TO TRAFFIC MAINTAINING ACCESS THROUGH -Y5- AND WEDGE -Y4- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE AND INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON SHEET TCP-24.
 - REOPEN -Y4- TO TRAFFIC.
- STEP 3 - INSTALL OFF-SITE DETOUR SIGNS AS SHOWN ON TCP-35 AND CLOSE -Y11- (HILLTOP DRIVE) PLACING TRAFFIC ONTO OFF-SITE DETOUR.
- CONSTRUCT -Y11- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE AND INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON SHEET TCP-27.
- STEP 4 - INSTALL OFF-SITE DETOUR SIGNS AS SHOWN ON TCP-33 AND OPEN -Y11- (HILLTOP DRIVE) TO TRAFFIC AND CLOSE -Y12- (EVANS DRIVE).
- CONSTRUCT -Y12- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE AND INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON SHEET TCP-27.

- STEP 5 - INSTALL OFF-SITE DETOUR SIGNS FOR THE CLOSURE OF -Y16- (OLD FIRETOWER RD.) AS SHOWN ON TCP-34 AND CLOSE -Y16- PLACING TRAFFIC ONTO OFF-SITE DETOUR.
- CONSTRUCT -Y16- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE AND INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON SHEETS TCP-28 AND TCP-31.
- STEP 6 - INSTALL AND COVER OFF-SITE DETOUR SIGNS AS SHOWN ON TCP-36 AND

COMPLETE THE WORK REQUIRED IN PHASE II, STEP 7 IN 20 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

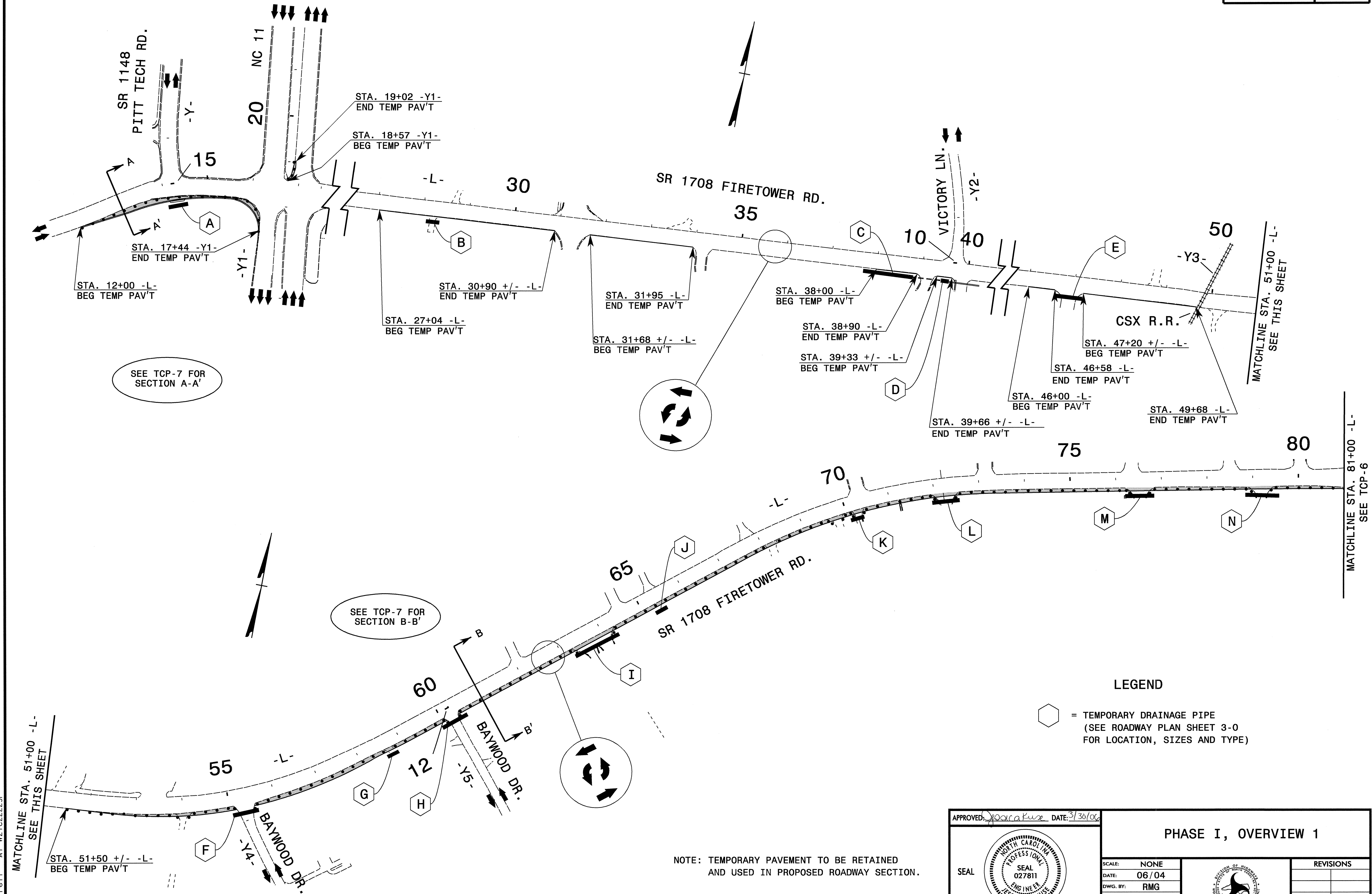
- STEP 7 - UNCOVER OFF-SITE DETOUR SIGNS AND CLOSE -Y14- (COREY RD.) PLACING TRAFFIC ONTO OFF-SITE DETOUR. (SEE SHEET TCP-36)
- CLOSE -L- (FIRETOWER RD.) WESTBOUND LEFT TURN LANE AT -Y14- (COREY RD.) AND COVER TEMPORARY LEFT TURN SIGNAL.
 - CONSTRUCT -Y14- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE (SEE SHEET TCP-31) AND RESTORE TEMPORARY PAVEMENT MARKINGS AND MARKERS AS SHOWN ON SHEETS TCP-28.
 - REMOVE AND OR COVER RELATED TEMPORARY DETOUR SIGNING AND OPEN -Y14- (COREY RD.) TO TRAFFIC.
- STEP 8 - COMPLETE PHASE II, STEP 2.
- COMPLETE INSTALLATION OF FINAL SIGNALS AND COVER AS NECESSARY AT THE FOLLOWING LOCATIONS:
- L-(FIRETOWER RD.) @ -Y1- (NC 11 / MEMORIAL DR.)
 - L-(FIRETOWER RD.) @ -Y6- (SR 1700 OLD TAR RD.)
 - L-(FIRETOWER RD.) @ -Y8- (PINE BRANCH RD.)
 - L-(FIRETOWER RD.) @ -Y10- (BAYSWATER RD.)
 - L-(FIRETOWER RD.) @ -Y12- (EVANS DR. / ASHCROFT DR.)
 - L-(FIRETOWER RD.) @ -Y14- (SR 1709 COREY RD.)

- STEP 9 - USING ROADWAY STANDARD DRAWING 1101.02, SHEETS 1, 2, \ AND 3 OF 7 AS NEEDED INSTALL THE FINAL LAYER OF SURFACE COURSE, MEDIANS,FINAL PAVEMENT MARKINGS AND MARKERS ON THE FOLLOWING:(SEE SHEETS PM-2 THROUGH PM-7 AND ROADWAY PLANS) (SEE LOCAL NOTES 4 & 5)
- L- STA. 12+00+/- TO STA. 17+30+/- @ -Y1-
 - L- STA. 17+30+/- TO STA. 151+70+/- EASTBOUND LANES
 - Y- STA. 10+00+/- TO STA. 11+00+/-
 - Y1- STA. 17+00+/- TO STA. 26+25+/- SOUTHERN LEG
 - Y4- STA. 11+00+/- TO STA. 12+59+/-
 - Y5- STA. 11+00+/- TO STA. 12+00+/-
 - Y6- STA. 9+40/- TO STA. 13+60+/- SOUTHERN LEG
 - Y7- STA. 10+75+/- TO STA. 12+00+/-
 - Y8- STA. 10+00+/- TO STA. 12+05+/-
 - Y10- STA. 9+32+/- TO STA. 12+05+/-
 - Y11- STA. 10+27+/- TO STA. 12+00+/-
 - Y12- STA. 10+10+/- TO STA. 12+00+/-
 - Y13- STA. 10+85+/- TO STA. 12+30+/-
 - Y14- STA. 6+30+/- TO STA. 14+05+/-
 - Y16- STA. 11+80+/- TO STA. 13+00+/-

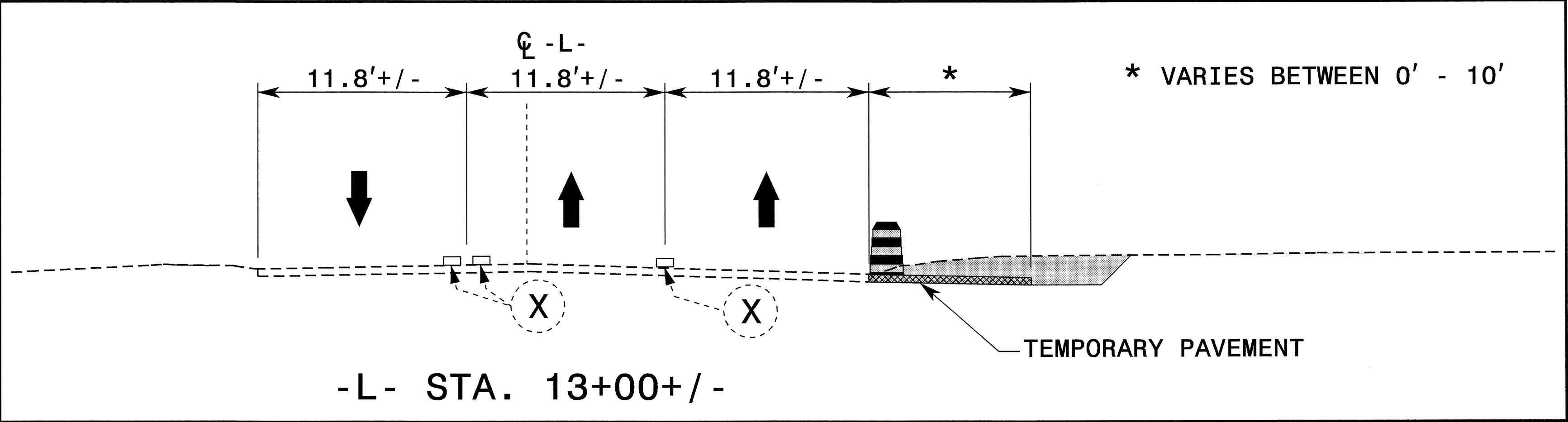
COMPLETE THE WORK REQUIRED IN PHASE II, STEP 10 FROM 8:00 P.M. ON A FRIDAY TO 6:00 A.M. THE FOLLOWING MONDAY. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 10 - USING POLICE SHIFT EASTBOUND -L- (FIRETOWER RD.) TRAFFIC INTO FINAL PATTERNS. (SEE SHEETS PM-2 THROUGH PM-7) (SEE LOCAL NOTE 1)
- ACTIVATE FINAL TRAFFIC SIGNALS (SEE SIGNAL PLANS).
 - PLACE DRUMS CLOSING THE TEMPORARY PHASE II EASTBOUND TRAFFIC LANES WHILE MAINTAINING TRAFFIC IN THE WESTBOUND DIRECTION ALONG -L- (FIRETOWER RD.)AS SHOWN ON SHEETS TCP-19 THROUGH TCP-28).
- STEP 11 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AS NEEDED INSTALL THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND MARKERS ON THE FOLLOWING: (SEE SHEETS PM-2 THROUGH PM-7 AND ROADWAY PLANS) (SEE LOCAL NOTES 4 & 5)
- L- STA. 17+30+/- TO STA. 151+70+/- WESTBOUND LANES
 - Y1- STA. 17+00+/- TO STA. 23+00+/- NORTHERN LEG
 - Y1A- STA. 10+35+/- TO STA. 11+00+/-
 - Y2- STA. 10+35+/- TO STA. 11+67+/-
 - Y6- STA. 13+72+/- TO STA. 18+46+/- NORTHERN LEG
 - Y7- STA. 10+75+/- TO STA. 12+00+/-
 - Y9- STA. 10+35+/- TO STA. 11+00+/-
 - Y11- STA. 10+27+/- TO STA. 12+00+/-
 - Y15- STA. 10+35+/- TO STA. 10+85+/-
- STEP 12 - OPEN -L- AND ALL -Y- LINES TO TRAFFIC.
- REMOVE REMAINING TRAFFIC CONTROL DEVICES AND SIGNS.

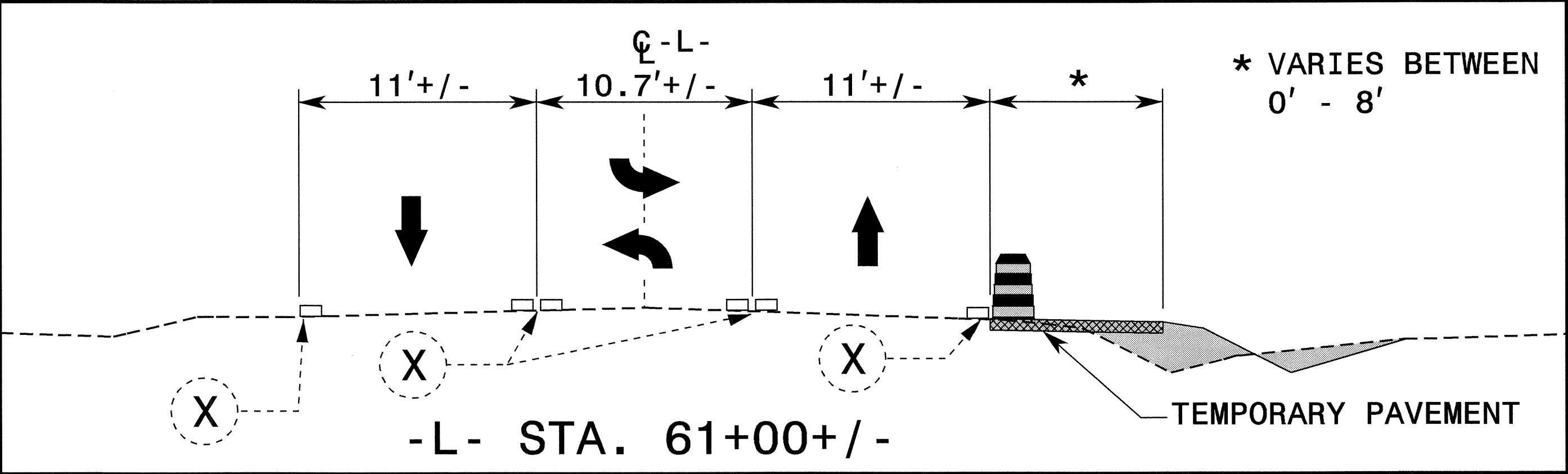
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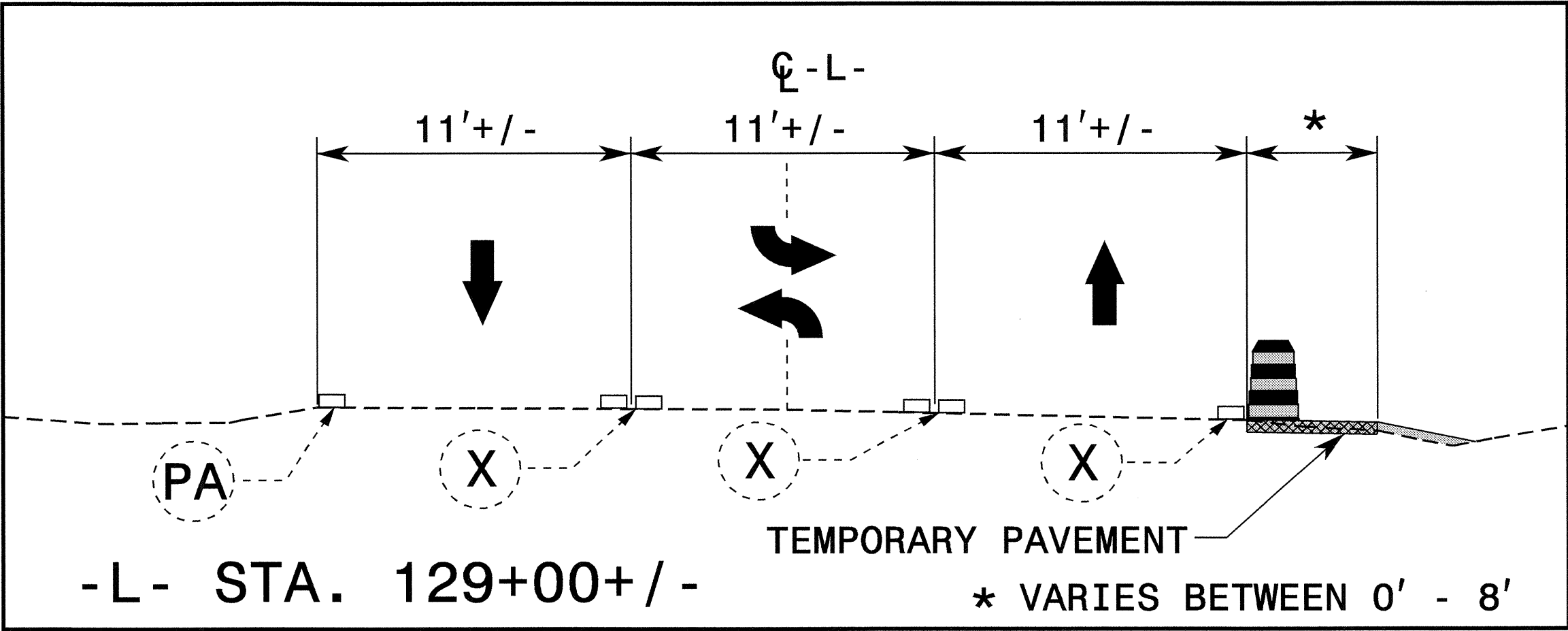
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mgdrrt AT WZTC2223



SECTION A-A'



SECTION B-B'



SECTION C-C'

NOTE: TEMPORARY PAVEMENT TO BE RETAINED
AND USED IN PROPOSED ROADWAY SECTION.

X EXISTING MARKINGS

TEMPORARY PAVEMENT

APPROVED: *Jessica D. Kuse* DATE: 3/31/06



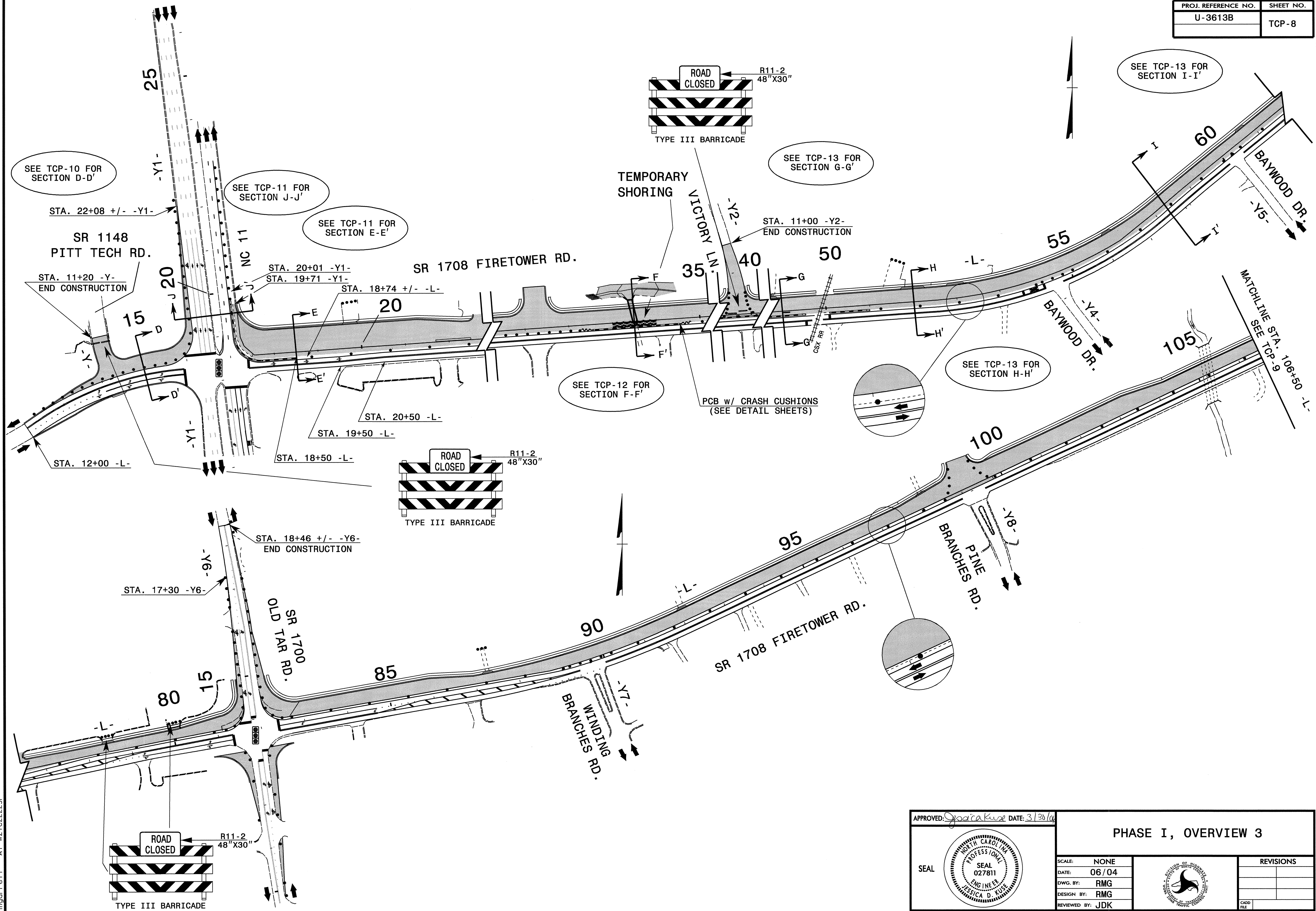
SECTIONS A-A', B-B' & C-C'

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DATE: 06/04
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REVIEWED BY: JDK

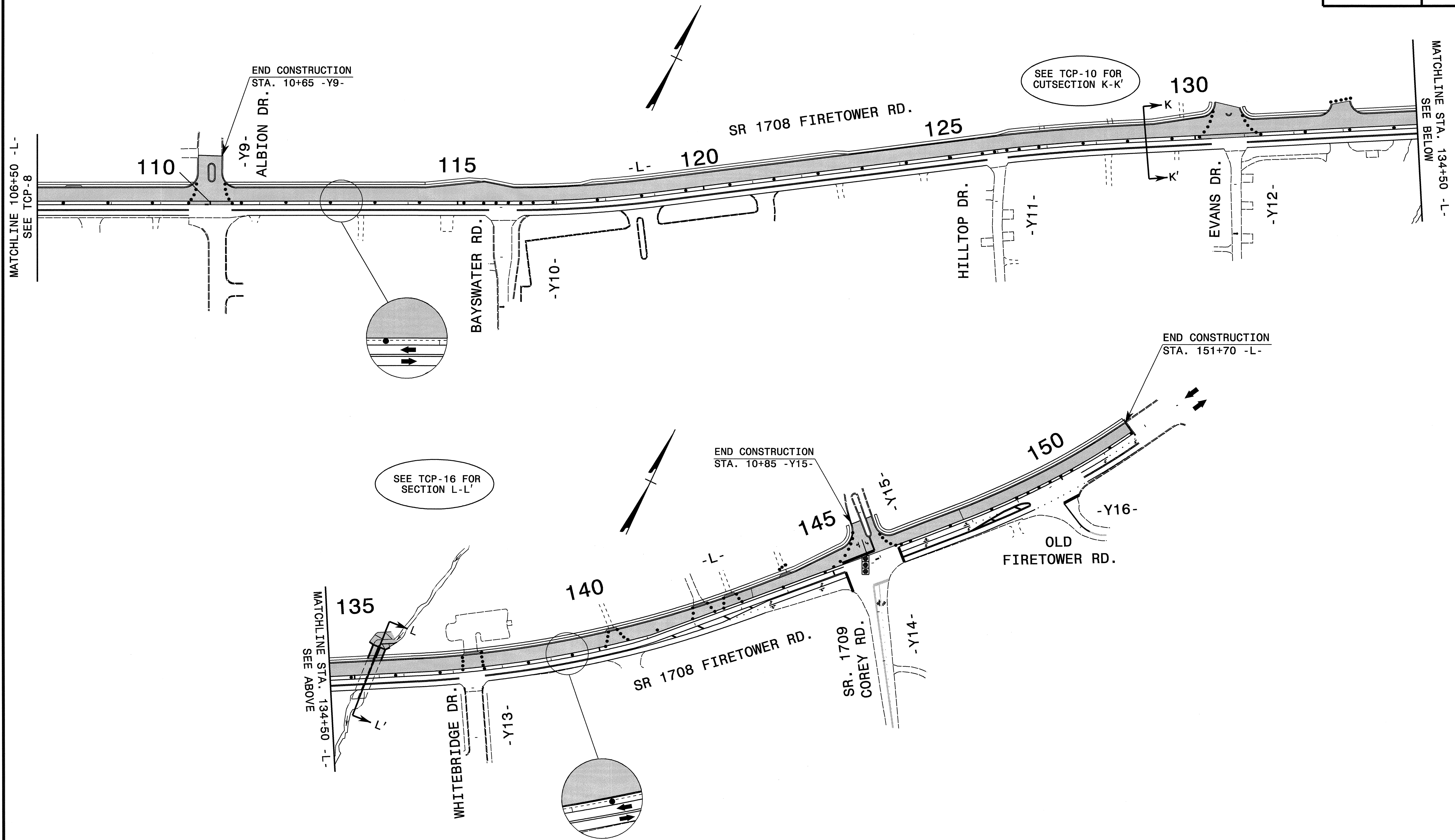


REVISIONS	

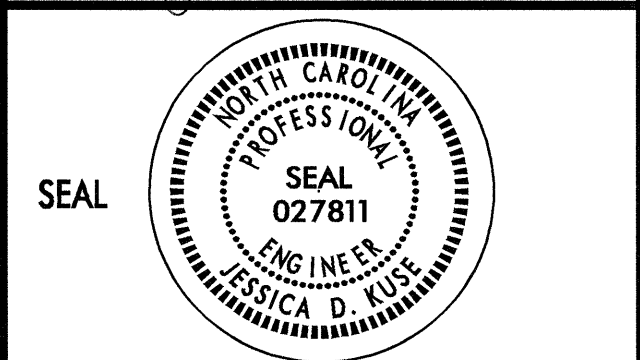
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APPROVED: <i>Josica Kuse</i> DATE: 3/30/04		PHASE I, OVERVIEW 3	
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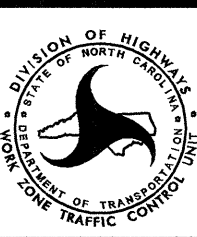


APPROVED: *Jessica D. Kuse* DATE: 3/30/06



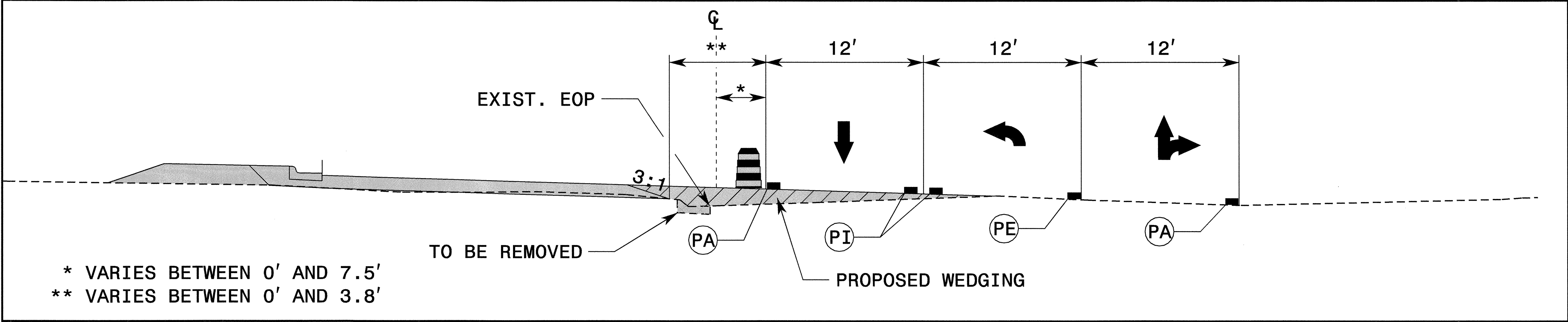
PHASE I, OVERVIEW 4

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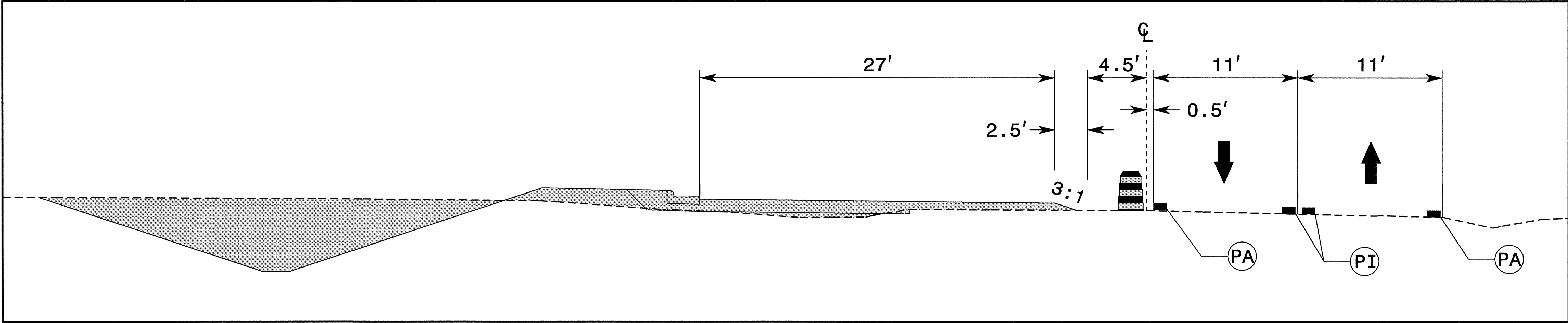


REVISIONS	

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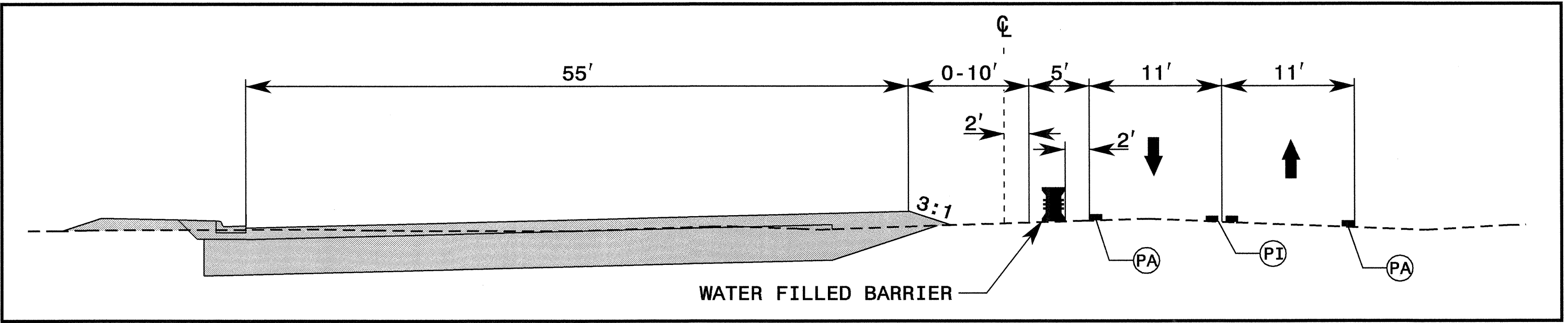
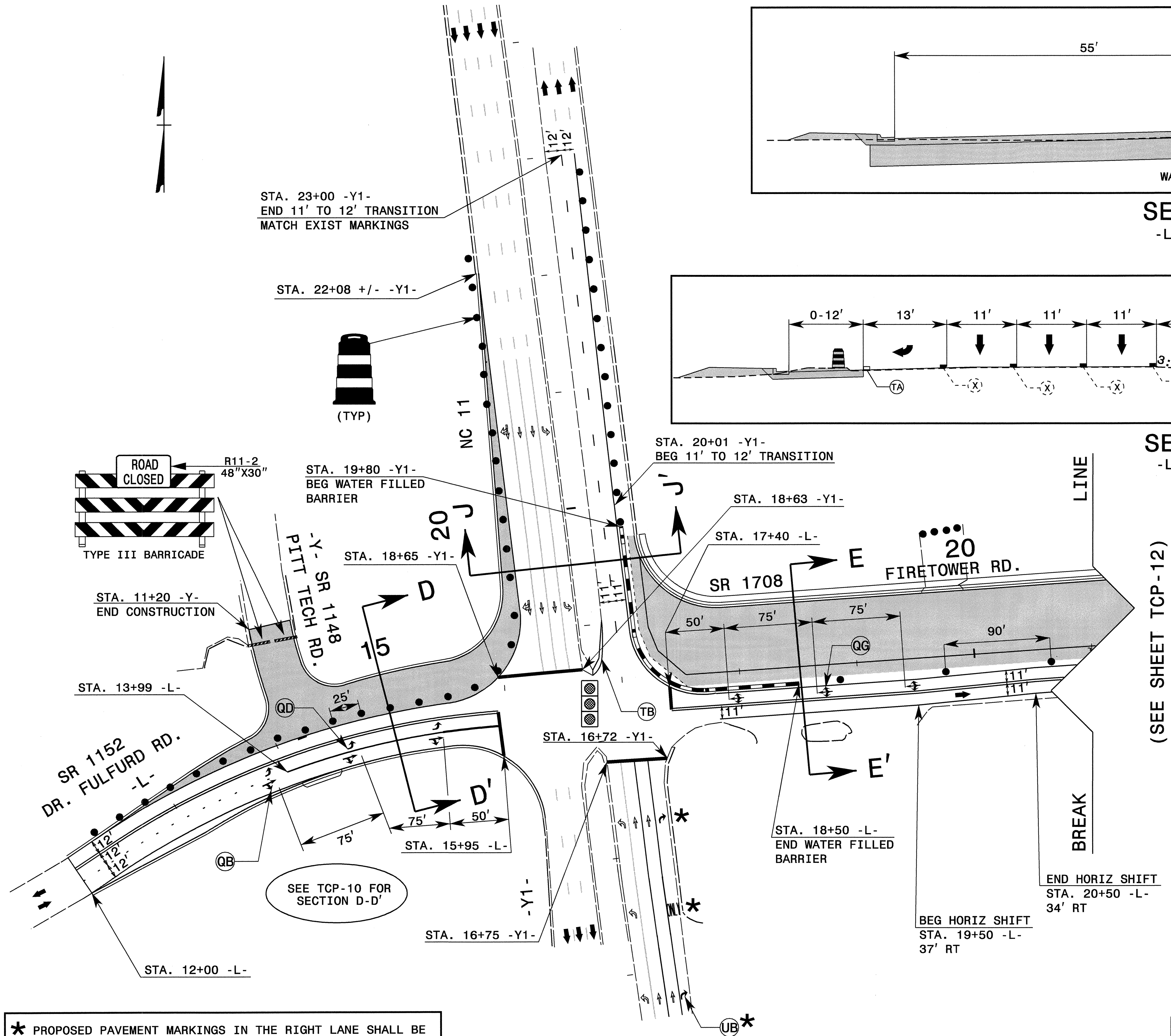


SECTION D-D'
-L- STA. 15+00 +/-

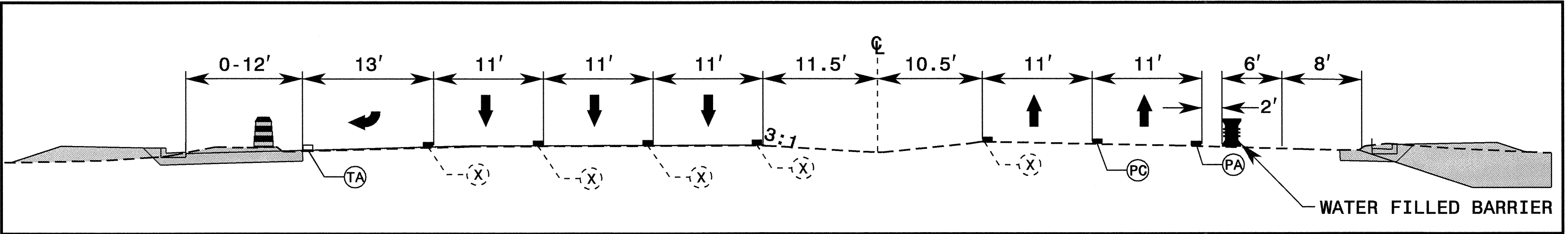


SECTION K-K'
-L- STA. 129+00 +/-

APPROVED: <i>Jessica D. Kuss</i> DATE: 3/30/06	SECTIONS D-D' & K-K'	
	SCALE: NONE	
	DATE: 06/04	
	DESIGN BY: RMG	
	REVIEWED BY: JDK	
	REVISIONS	



SECTION E-E'
-L- STA. 18+50 +/-



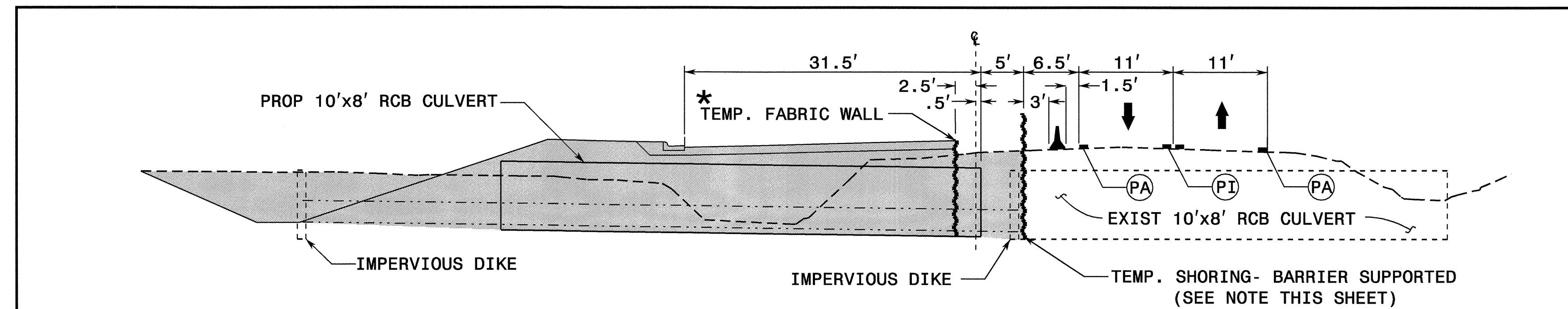
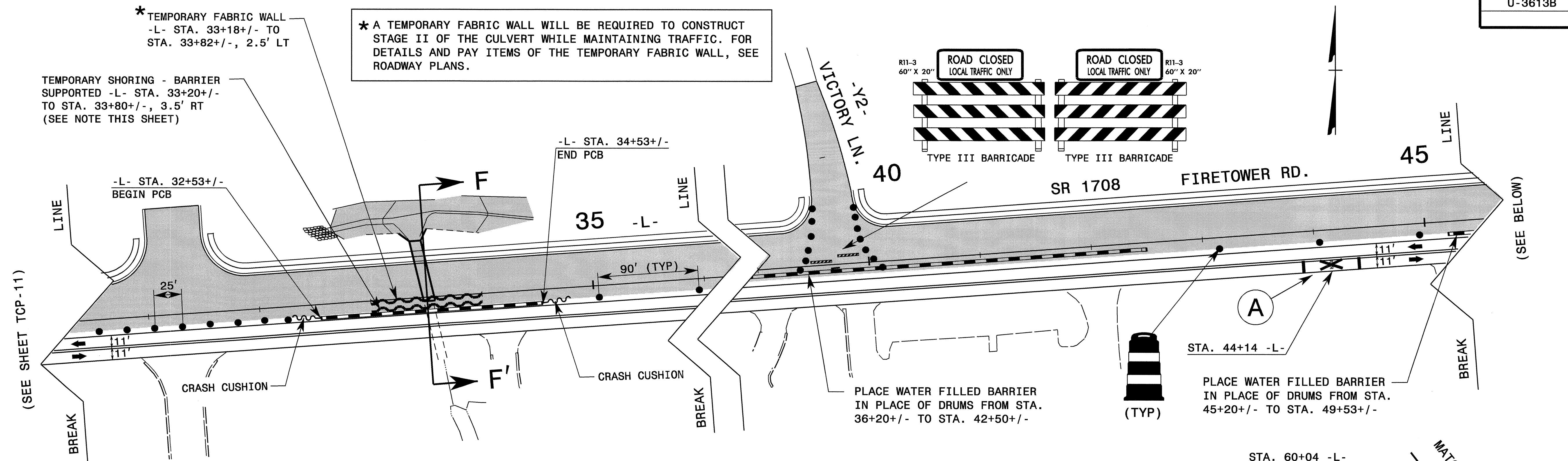
SECTION J-J'
-L- STA. 19+50 +/-

(X) EXISTING MARKINGS

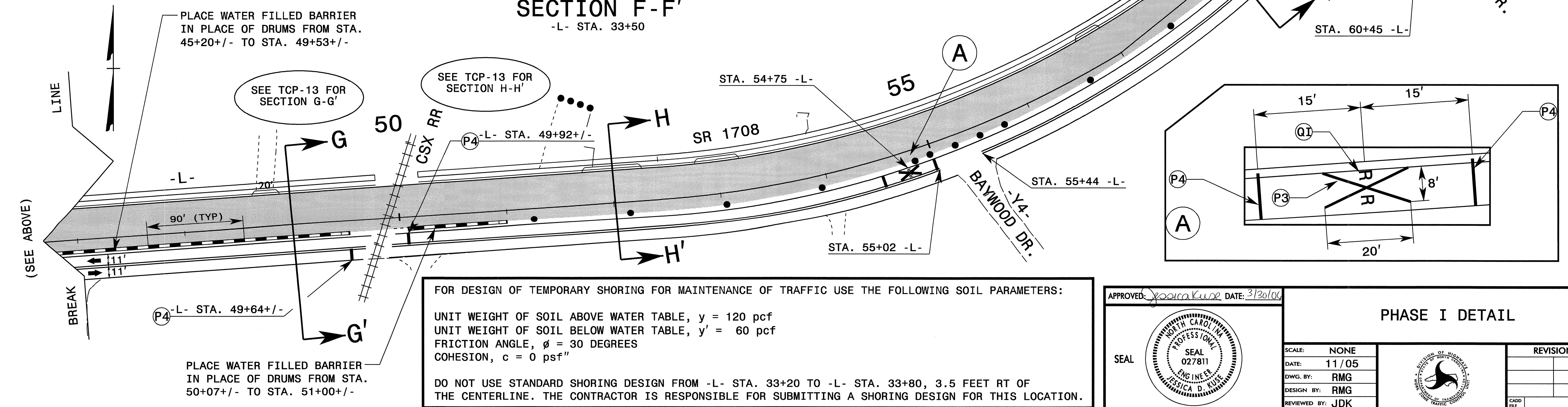
* PROPOSED PAVEMENT MARKINGS IN THE RIGHT LANE SHALL BE PLACED IN THE SAME LOCATION AS THOSE ALREADY EXISTING

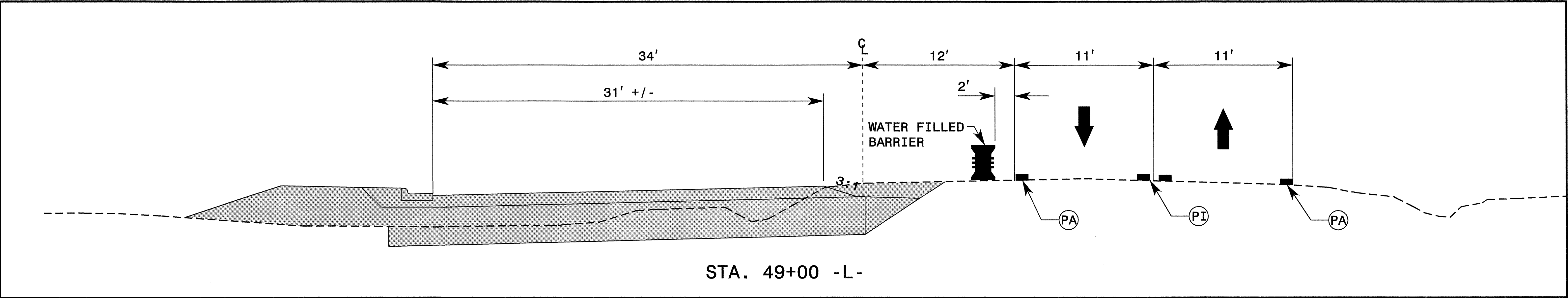
NOTE: PAVEMENT MARKINGS IN GREYSCALE AND HOLLOW PAVEMENT MARKING SYMBOLS SHOWN ARE EXISTING.

APPROVED: <i>Jessica D. Kuse</i> DATE: 3/30/06		PHASE I DETAIL	
SEAL 	SCALE: NONE		REVISIONS
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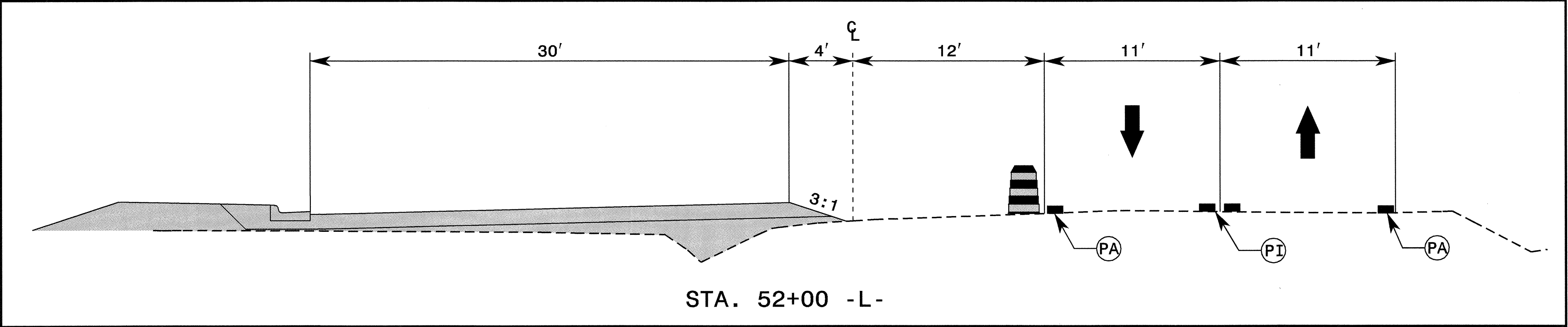


SECTION F-F'
-L- STA. 33+50

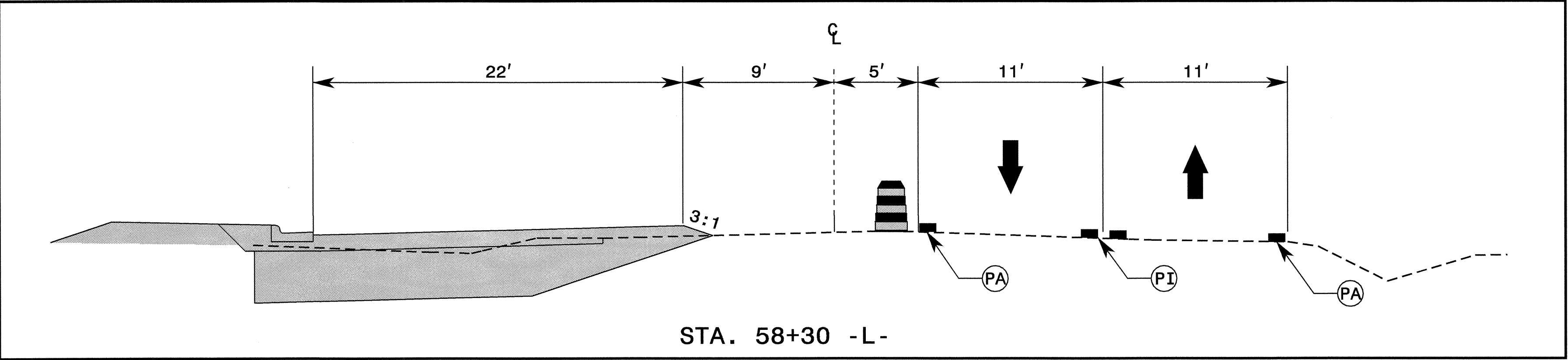




SECTION G-G'



SECTION H-H'



SECTION I-I'

30-MAR-2006 10:52
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APPROVED: *[Signature]* DATE: 3/30/06



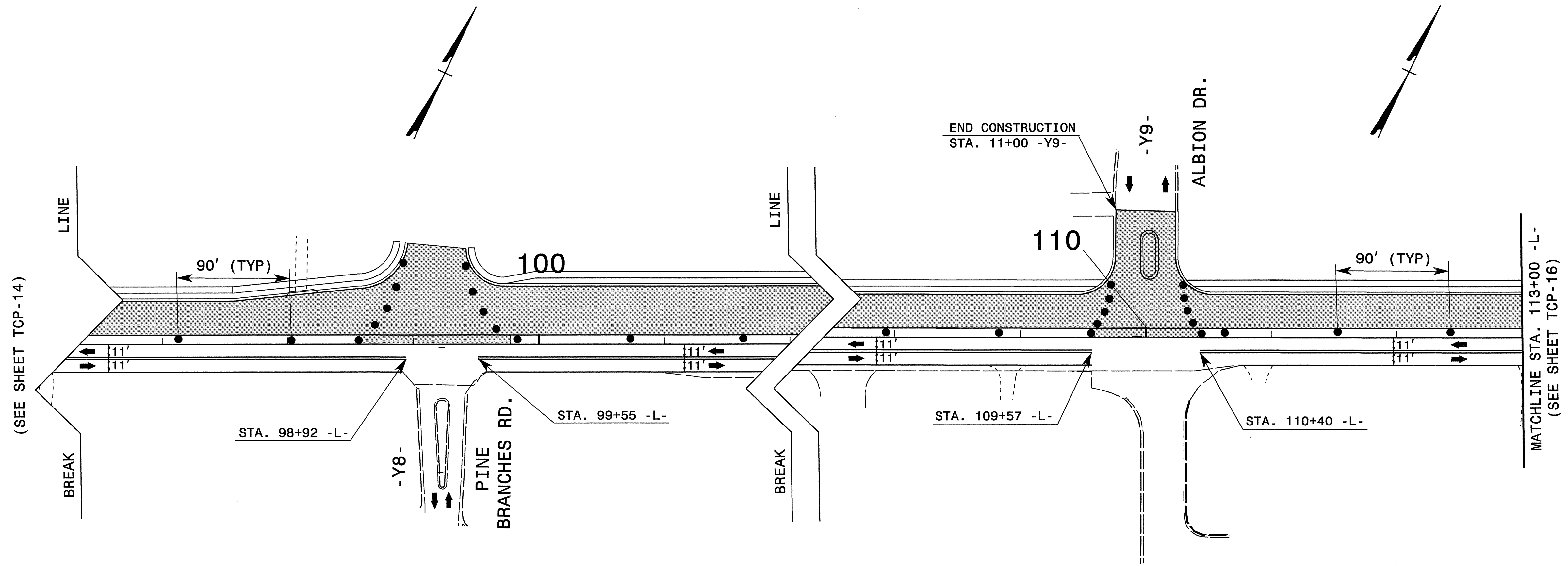
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REVIEWED BY: JDK



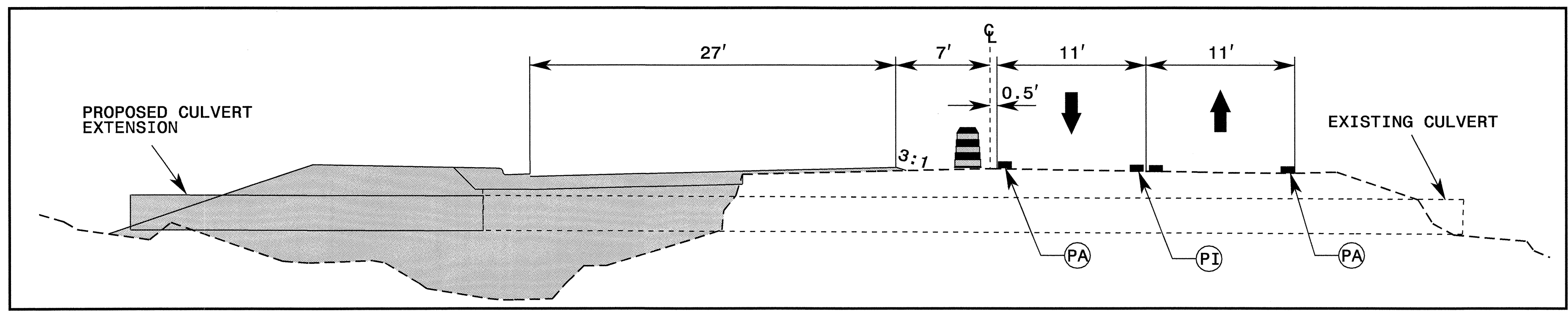
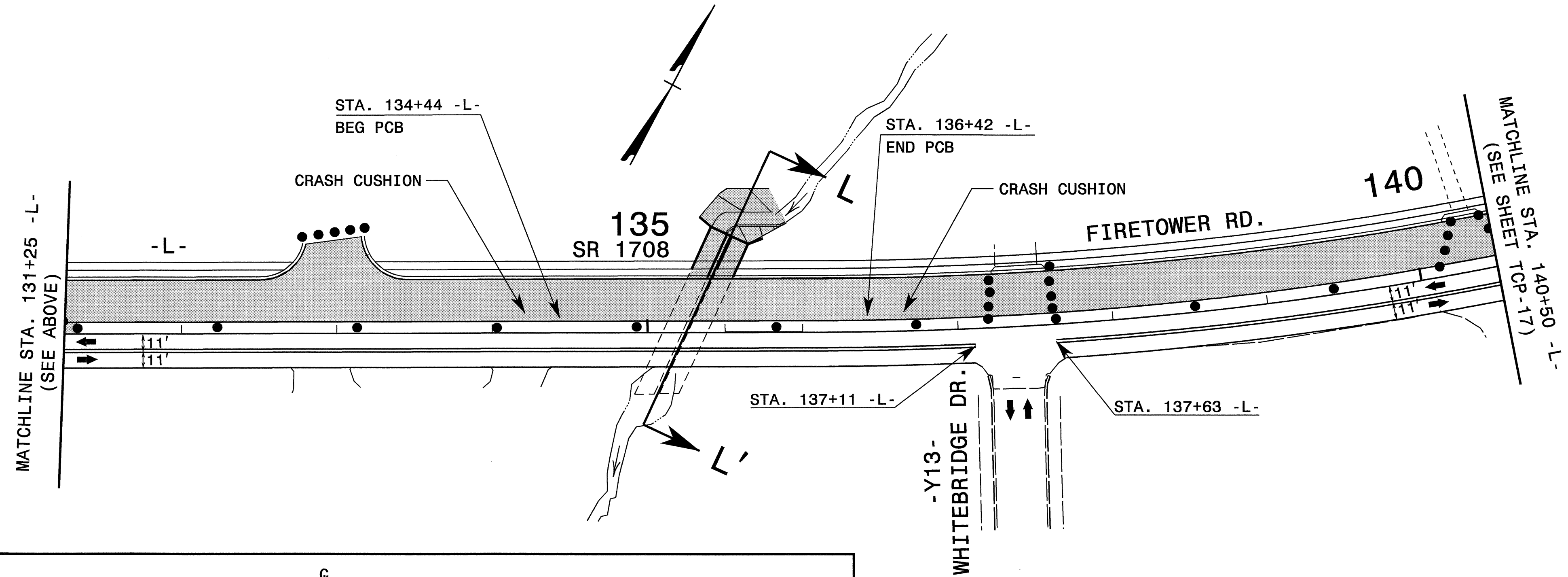
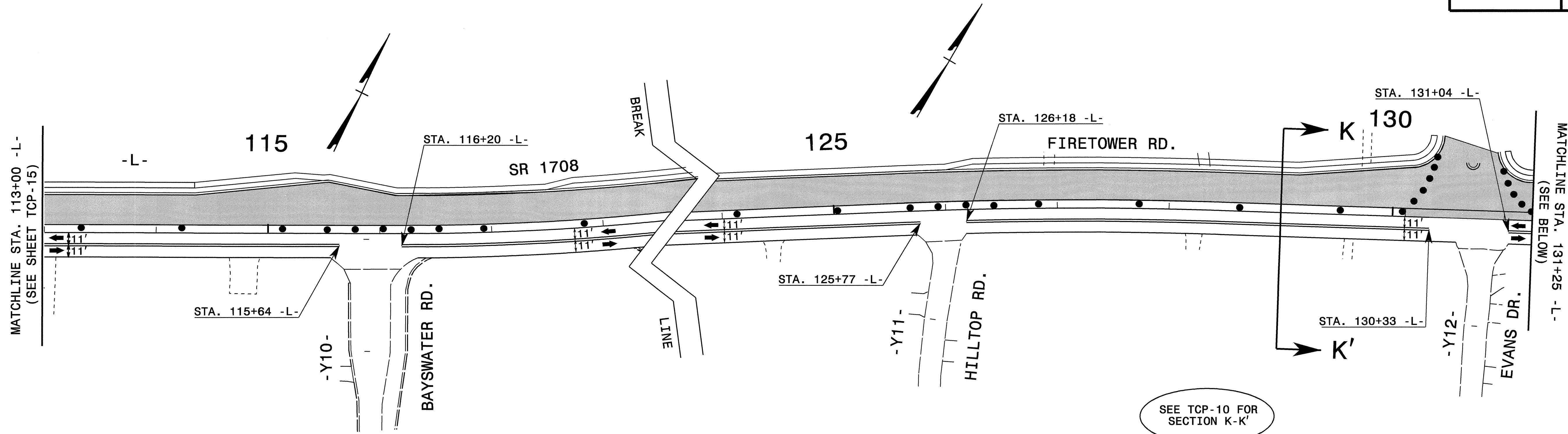
REVISIONS	

CARD
FILE



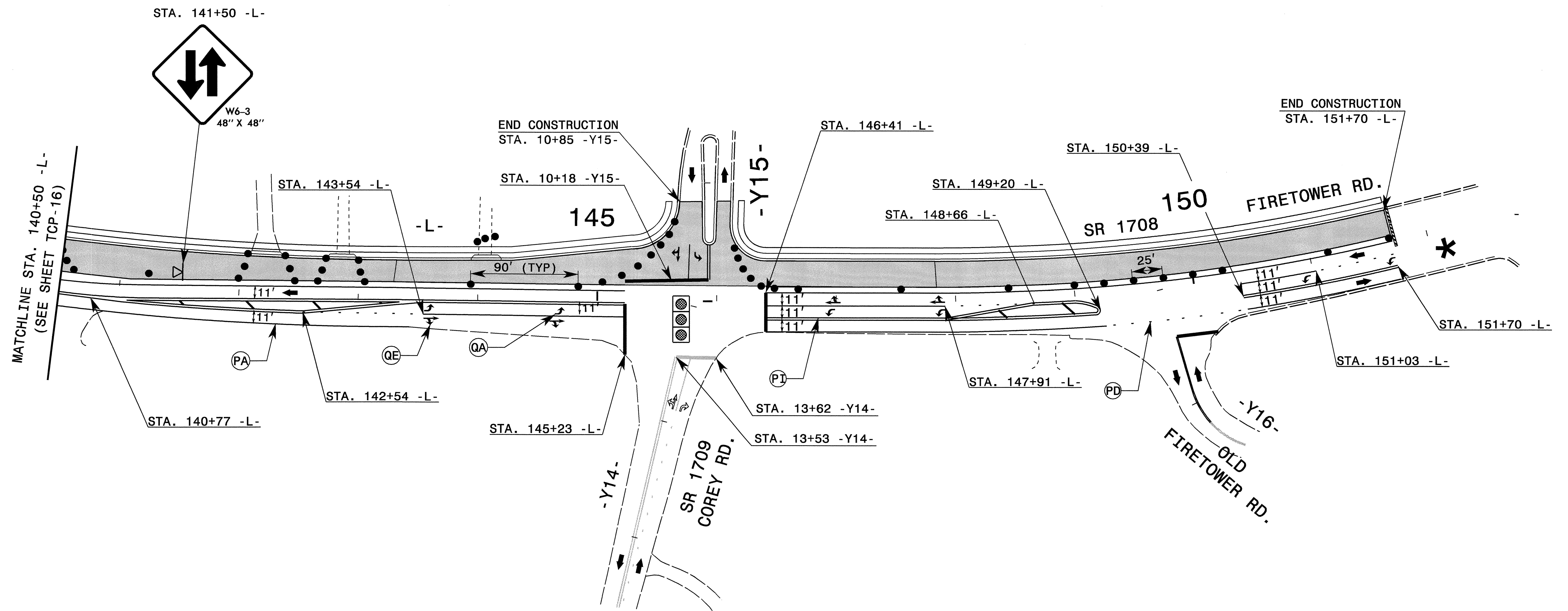
30-MAR-2006 10:53
\\ers-cctf03\U3613B\traffic\trafficcontrol\top\Phase U3613b-to-phi_detail2_top15.dgn
ringdrrt AT 11/21/2006 22:29

APPROVED: <i>Jessica D. Kuse</i> DATE: 3/30/06		PHASE I DETAIL	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 07/05		
	DWG. BY: RMG		
	DESIGN BY: RMG		
	REVIEWED BY: JDK		



SECTION L-L'
-L- STA. 135+25+/-

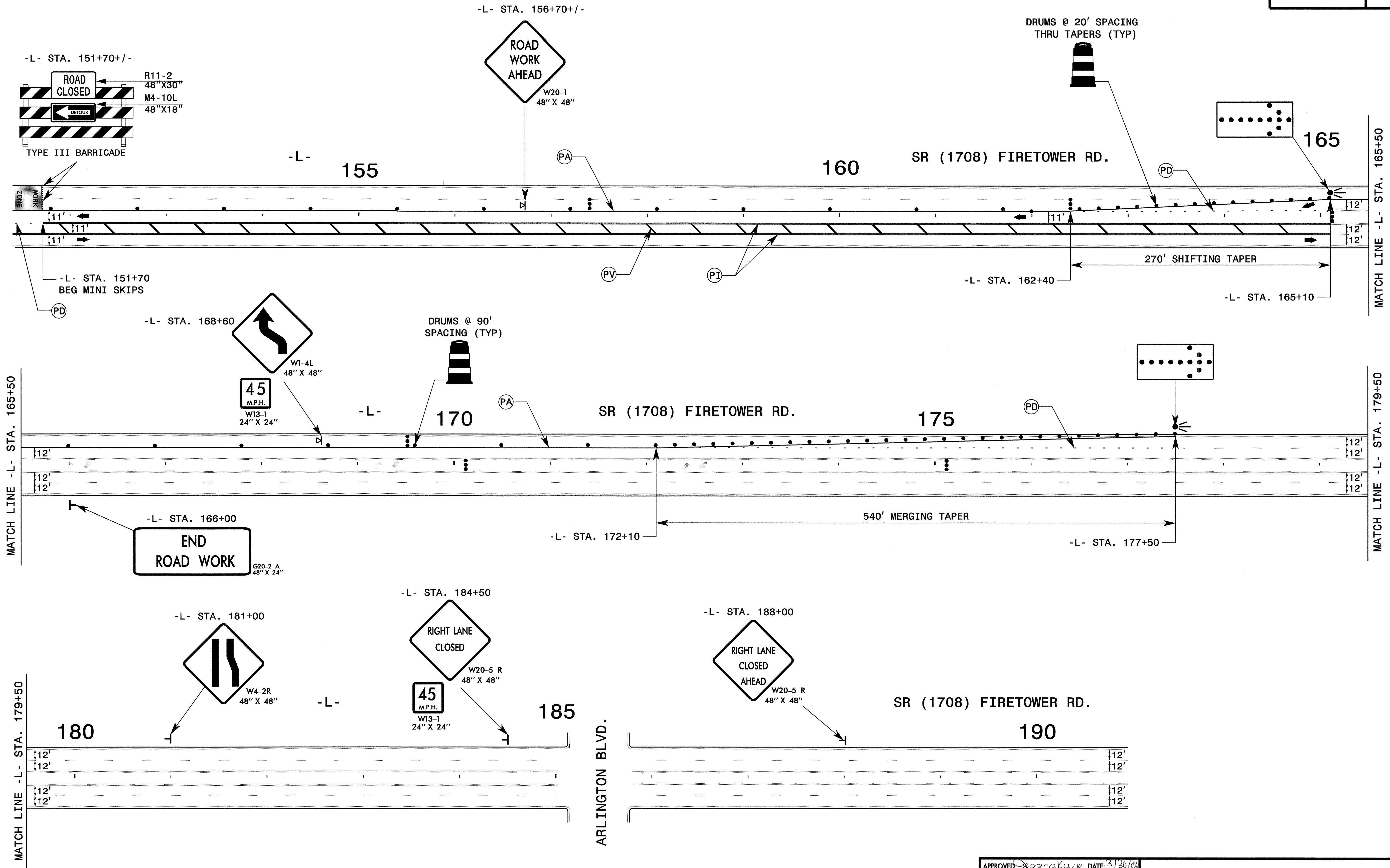
APPROVED: <i>Jessica Kuse</i> DATE: 3/30/09		PHASE I DETAIL	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 07/05		
	DWG. BY: RMG		
	DESIGN BY: RMG		
	REVIEWED BY: JDK		



* SEE TCP-18 FOR LANE CLOSURE OPERATION

APPROVED: <i>Jessica D. Kuse</i> DATE: 3/2/06		PHASE I DETAIL	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 07/05		
	DWG. BY: RMG		
	DESIGN BY: RMG		
	REVIEWED BY: JDK		

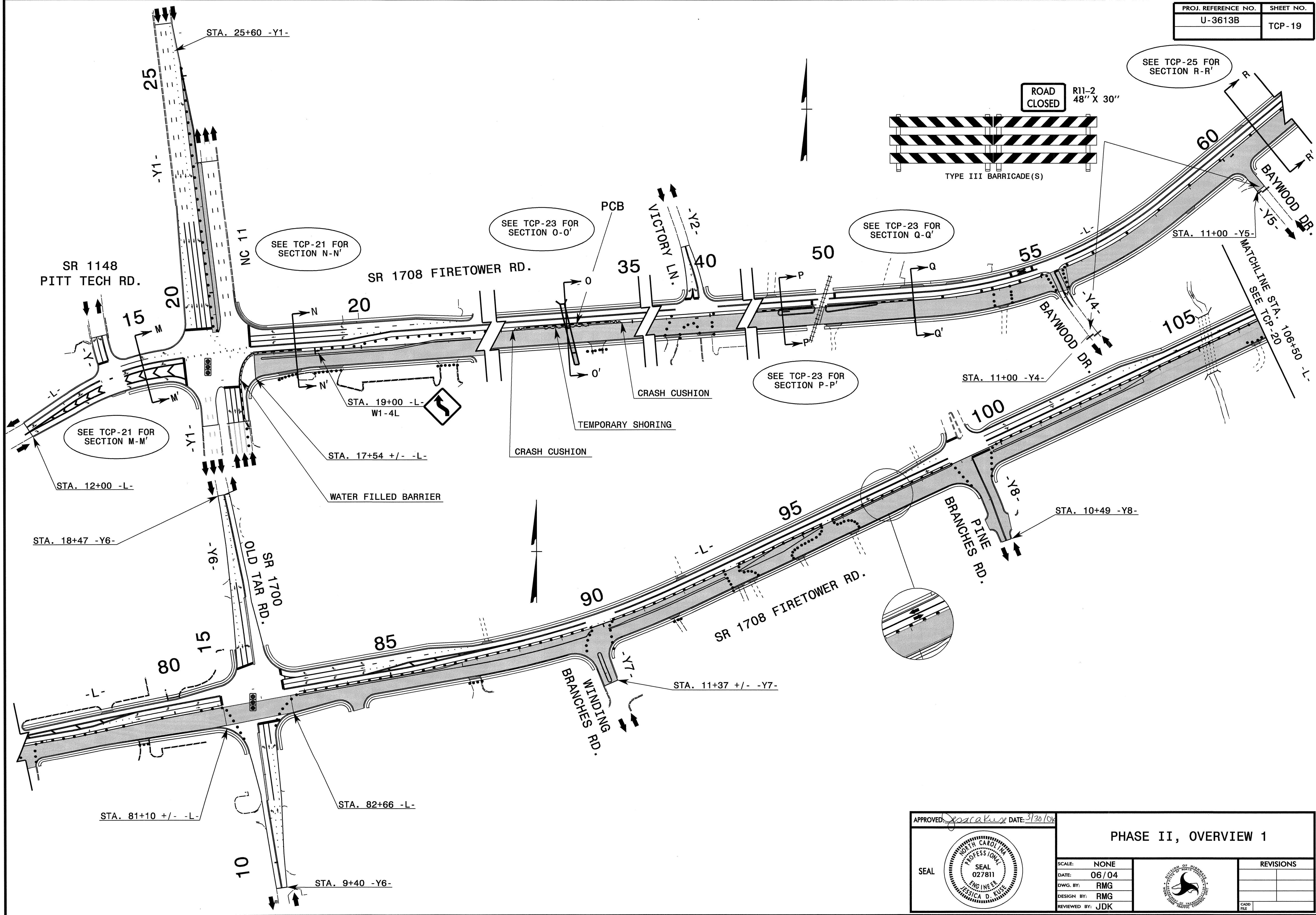
31-MAR-2006 09:57
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rmg:rmg AT 1/21/06



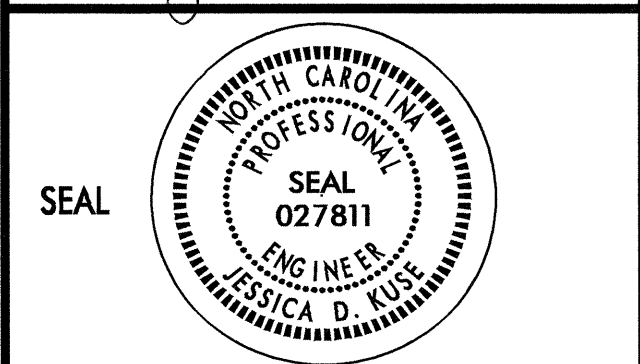
NOTE:
COVER ALL SIGNS AND REMOVE ALL PAVEMENT
MARKINGS / MARKERS OR SYMBOLS CONFLICTING
WITH THIS TEMPORARY TRAFFIC PATTERN.

APPROVED: <i>[Signature]</i> DATE: 3/20/04	PHASE I DETAIL	
	SCALE: NONE	
	DATE: 12/05	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK	REVISIONS	

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rmg 1/16/11 AT 12:22:29

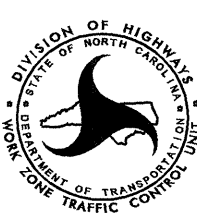


APPROVED: *[Signature]* DATE: 3/30/04



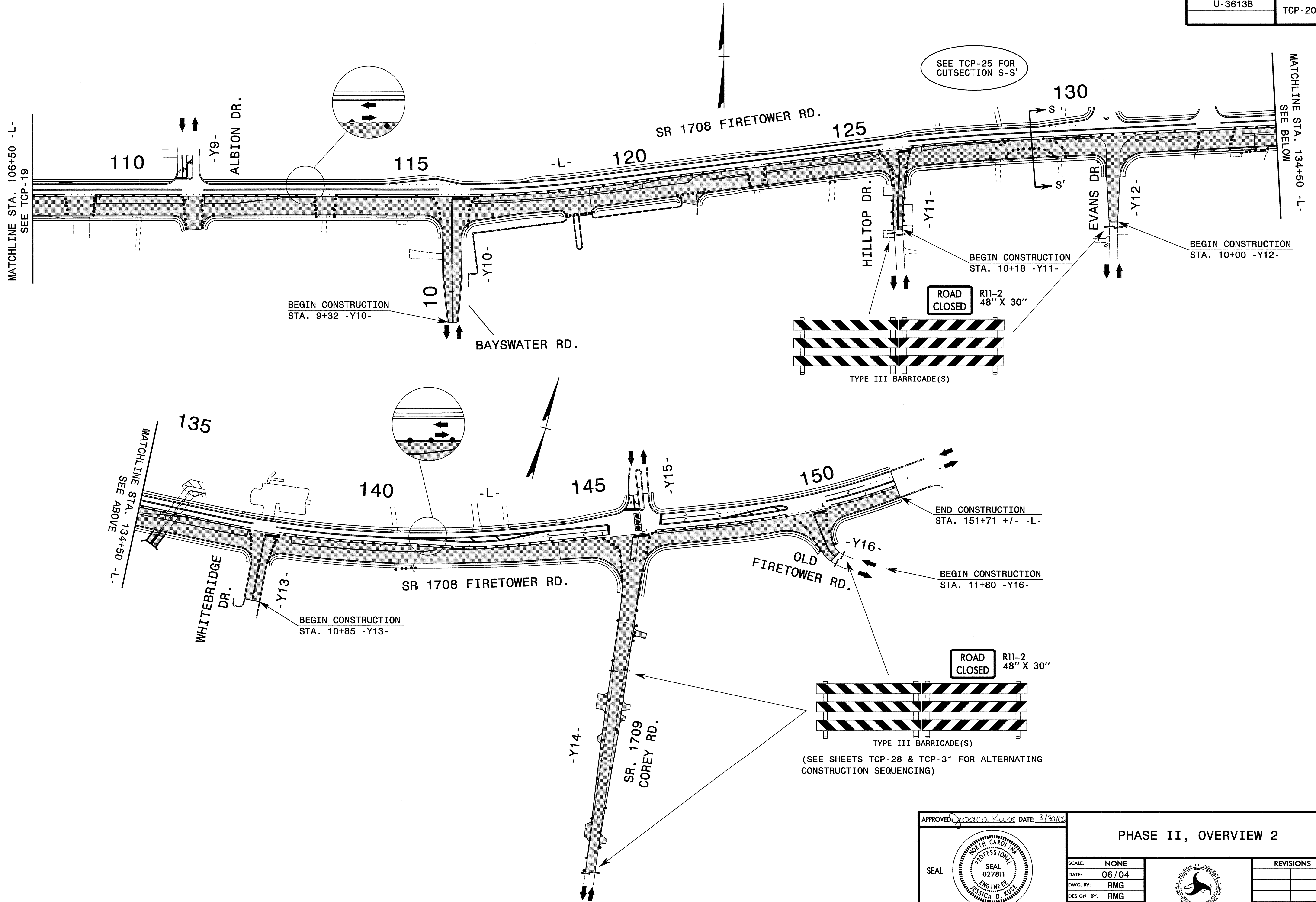
PHASE II, OVERVIEW 1

SCALE: NONE
DATE: 06/04
DWG. BY: RMG
DESIGN BY: RMG
REVIEWED BY: JDK

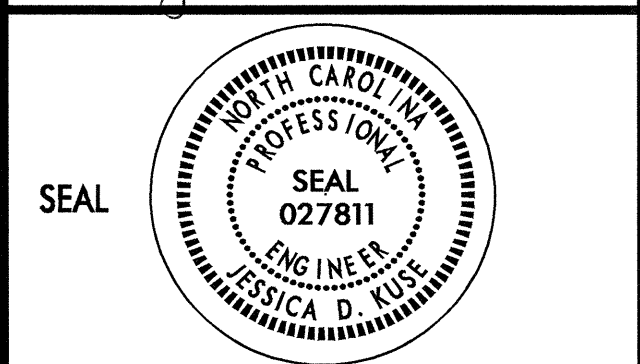


REVISIONS	

CADD FILE

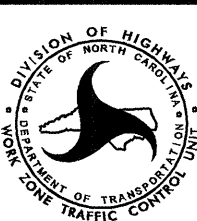


APPROVED: *Jessica K. Kuss* DATE: 3/30/06



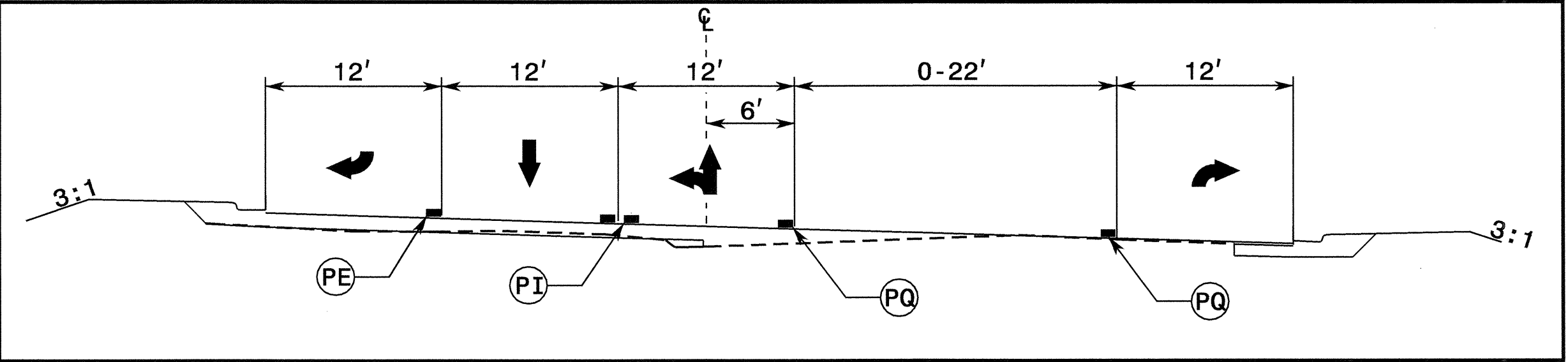
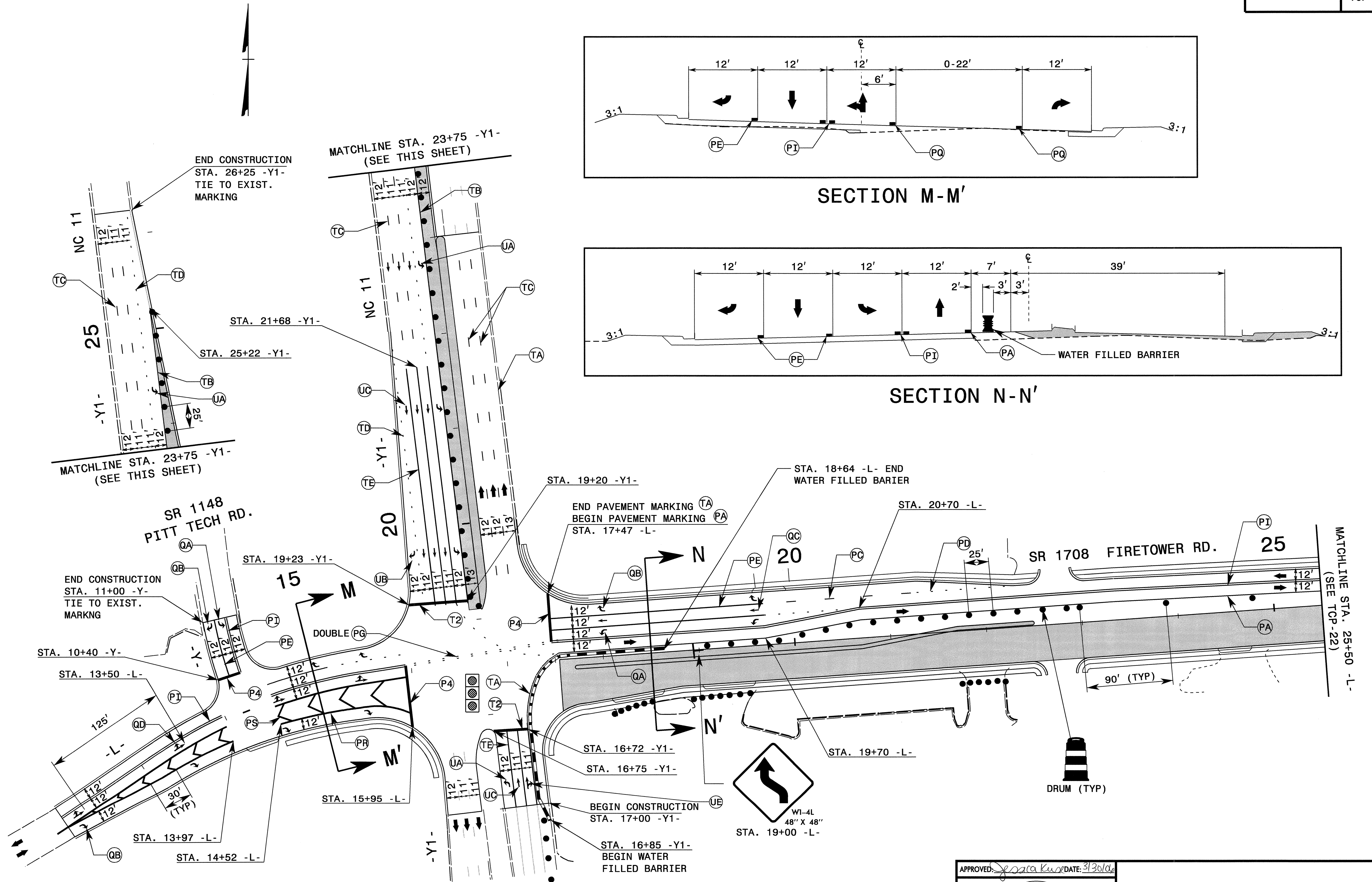
PHASE II, OVERVIEW 2

SCALE: NONE
DATE: 06/04
DWG. BY: RMG
DESIGN BY: RMG
REVIEWED BY: JDK

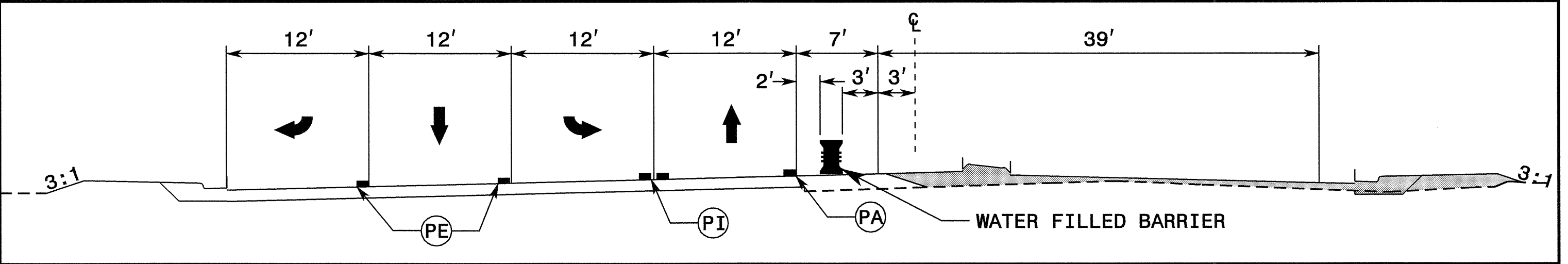


REVISIONS	

CADD FILE



SECTION M-M'



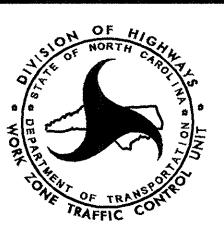
SECTION N-N'

APPROVED: *Sara K...* DATE: 3/30/06

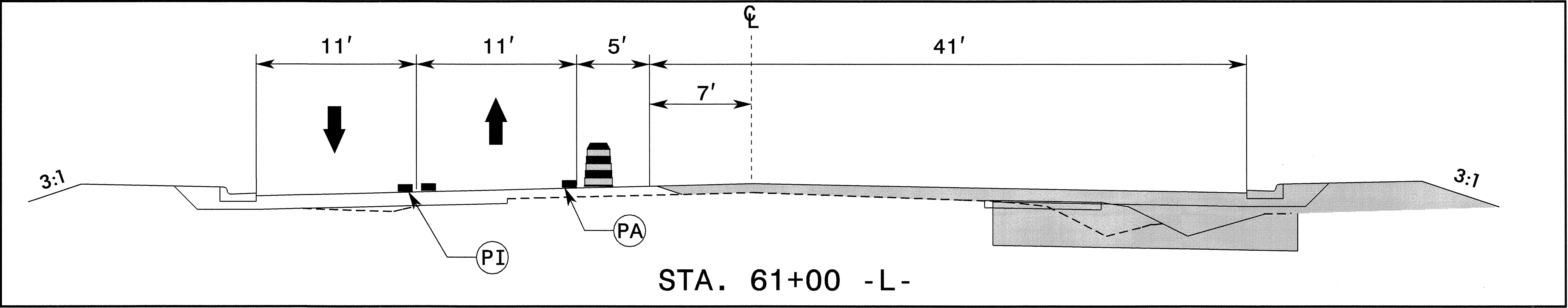


PHASE II DETAIL

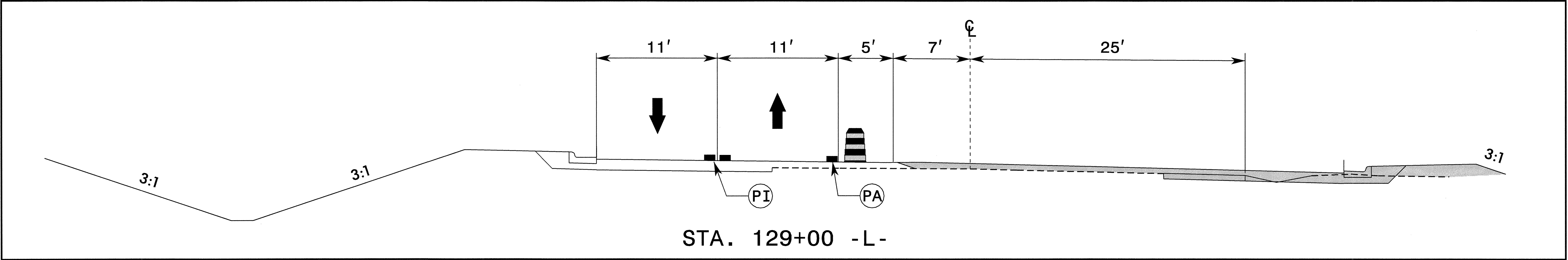
SCALE: NONE
DATE: 07/05
DWG. BY: RMG
DESIGN BY: RMG
REVIEWED BY: JKD



REVISIONS	



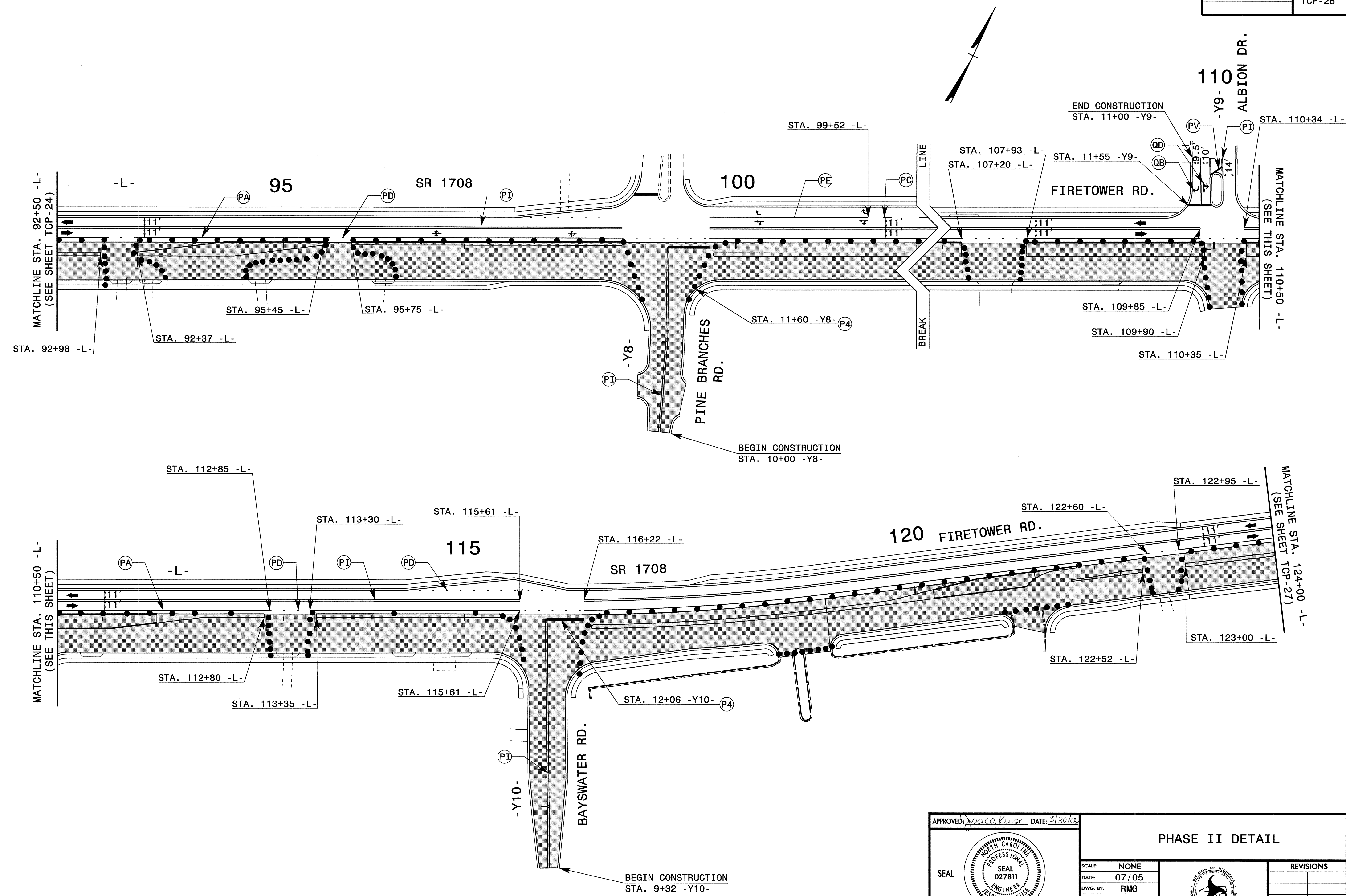
SECTION R-R'



SECTION S-S'

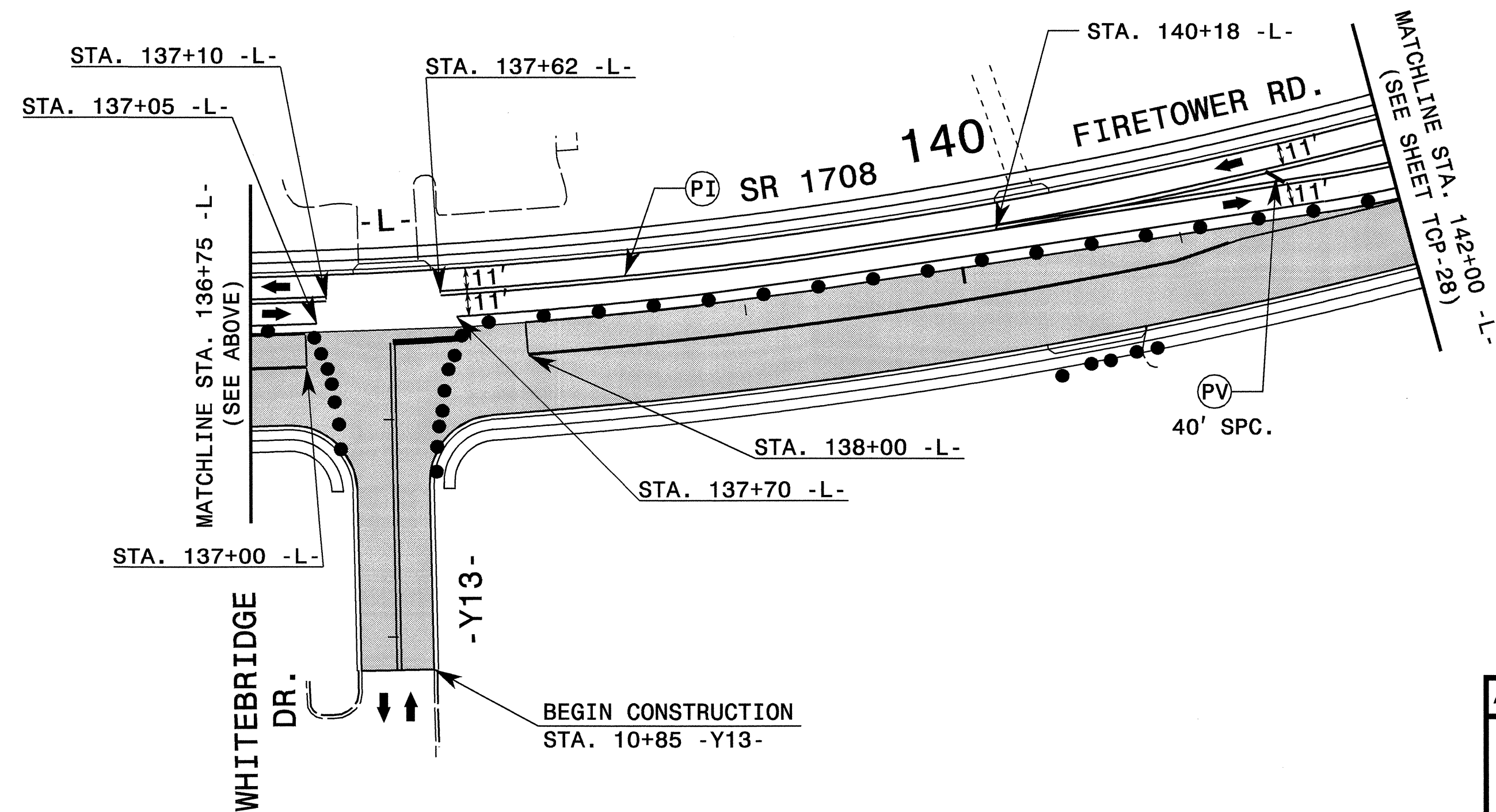
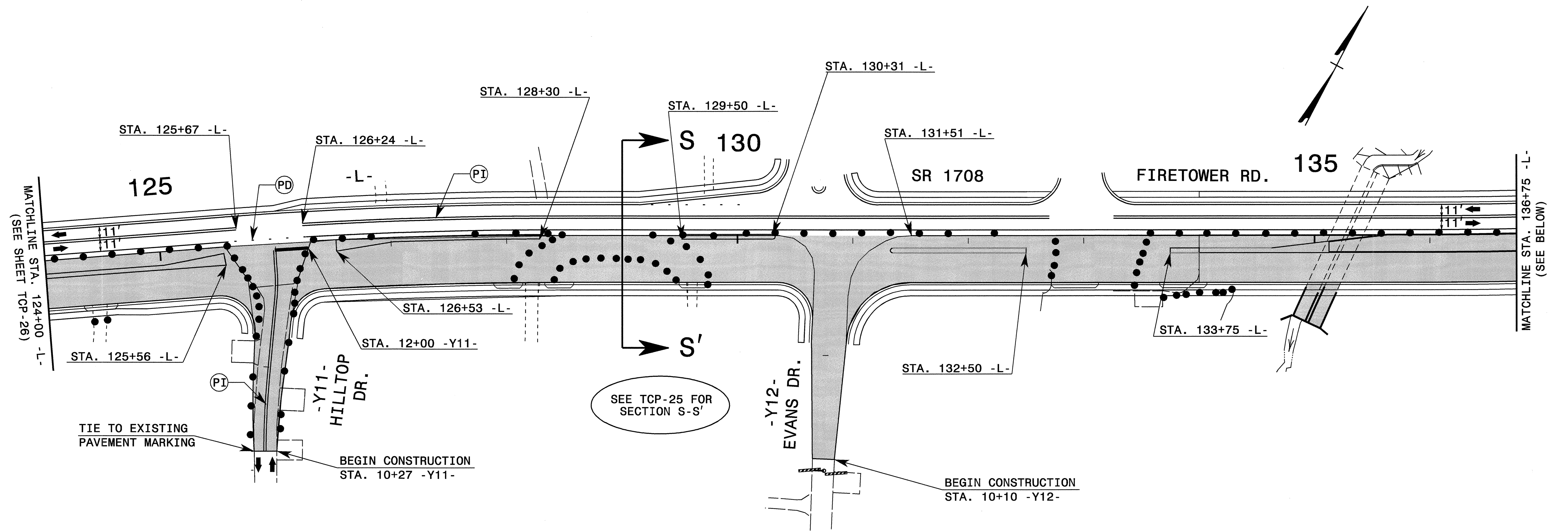
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rmgrrt811 AT 12/22/2009

APPROVED: <i>Jessica D. Kuse</i> DATE: 3/30/10	PHASE II DETAIL	
SEAL 	SCALE: NONE	
	DATE: 06/04	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK	REVISIONS	CAO FILE

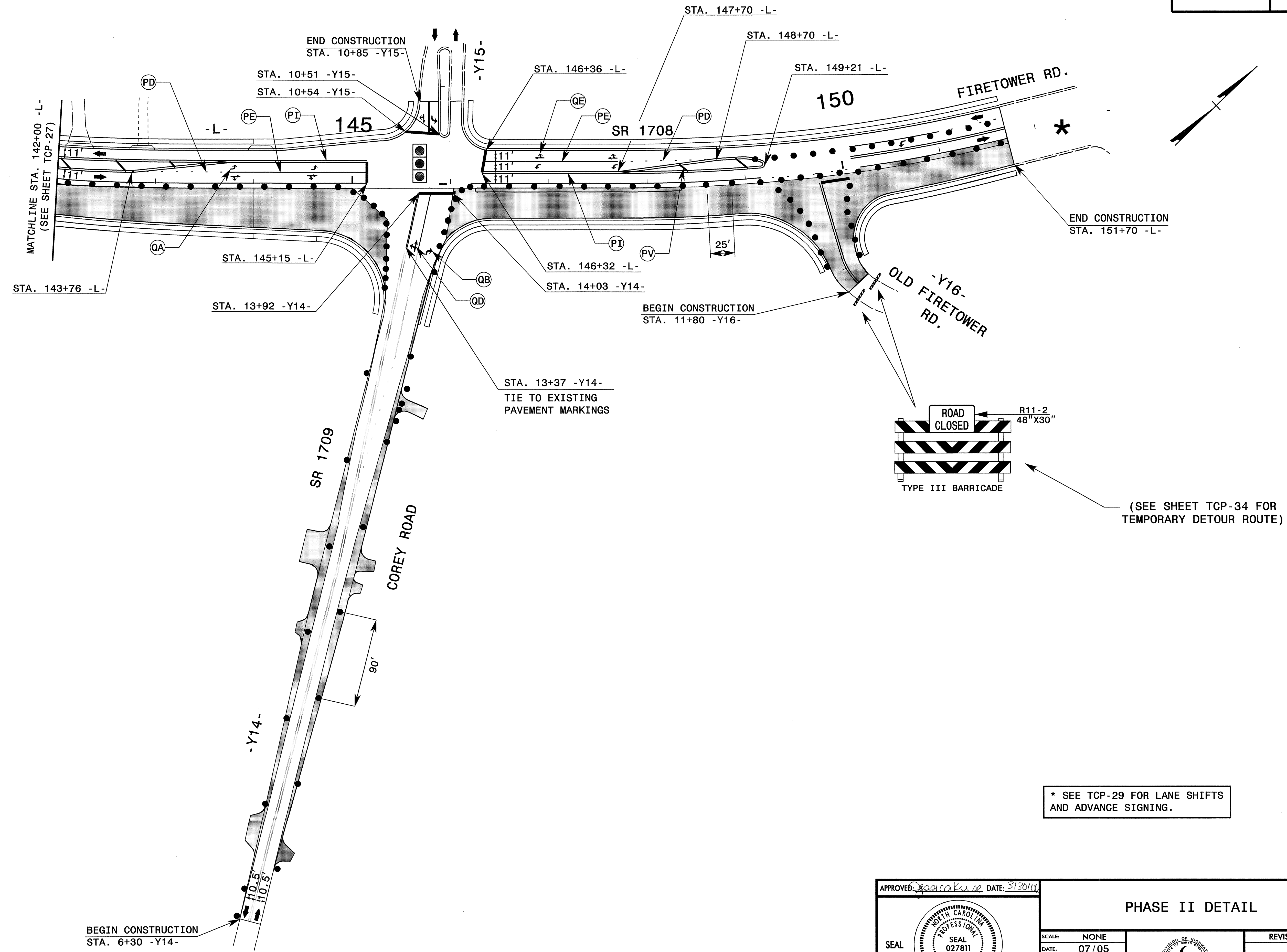


APPROVED: <i>[Signature]</i> DATE: 3/30/06		PHASE II DETAIL	
SEAL 	SCALE: NONE		
	DATE: 07/05		
	DWG. BY: RMG		
	DESIGN BY: RMG		
REVIEWED BY: JDK	REVISIONS		
			CADD FILE

30-MAR-2006 10:04
C:\GIS\3613B\Traffic\TrafficControl\Phase II\U3613B_TC_Phil_Detail\TCP26.dgn
rmg
rmg



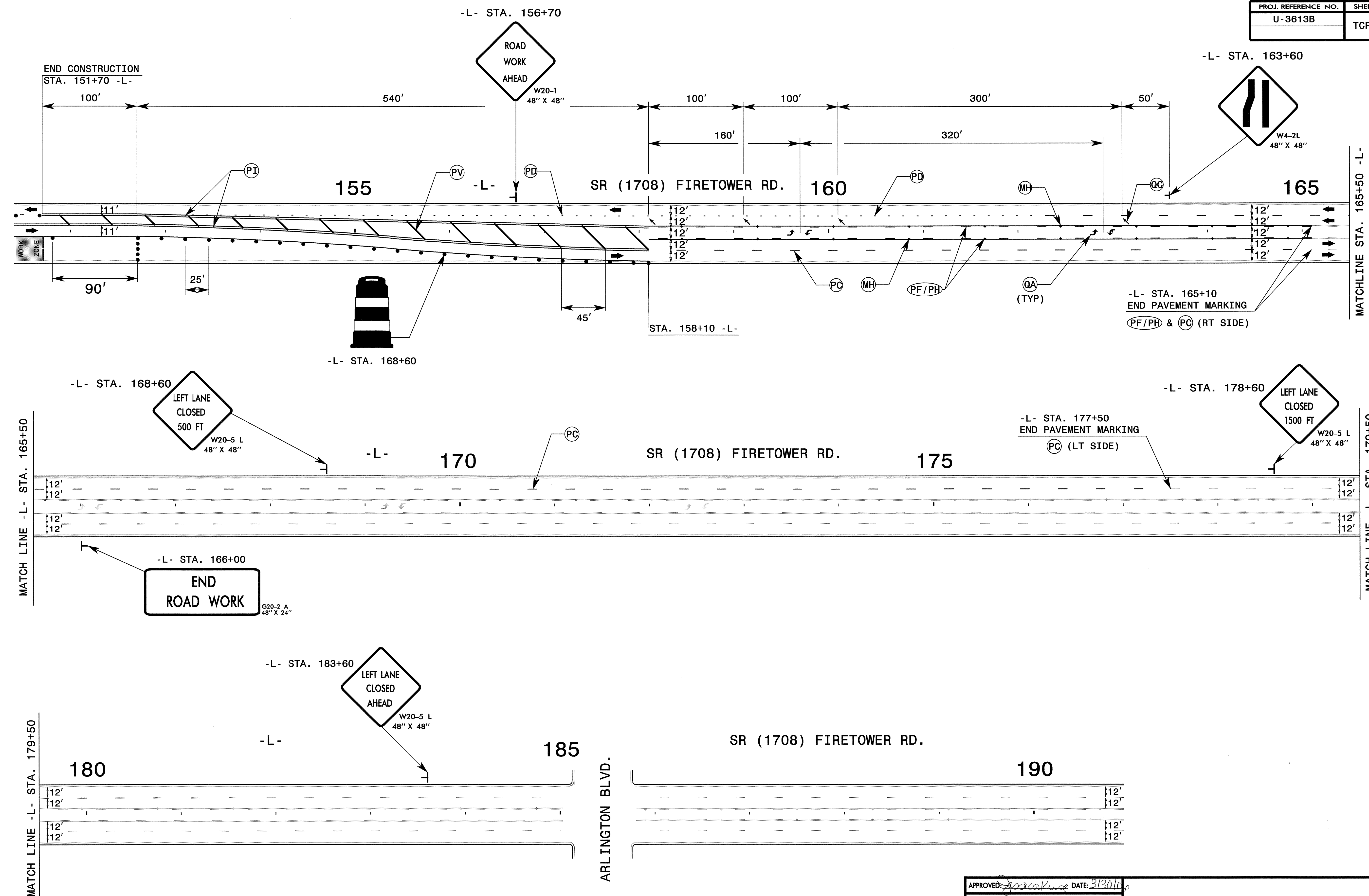
APPROVED: <i>Jessica D. Kuse</i> DATE: 3/30/10		PHASE II DETAIL	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 07/05		
	DWG. BY: RMG		
	DESIGN BY: RMG		
REVIEWED BY: JDK			



* SEE TCP-29 FOR LANE SHIFTS AND ADVANCE SIGNING.

APPROVED: <i>[Signature]</i> DATE: 3/30/05		PHASE II DETAIL						
SEAL 	SCALE: NONE							
	DATE: 07/05							
	DWG. BY: RMG							
	DESIGN BY: RMG							
REVIEWED BY: JDK	REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>							

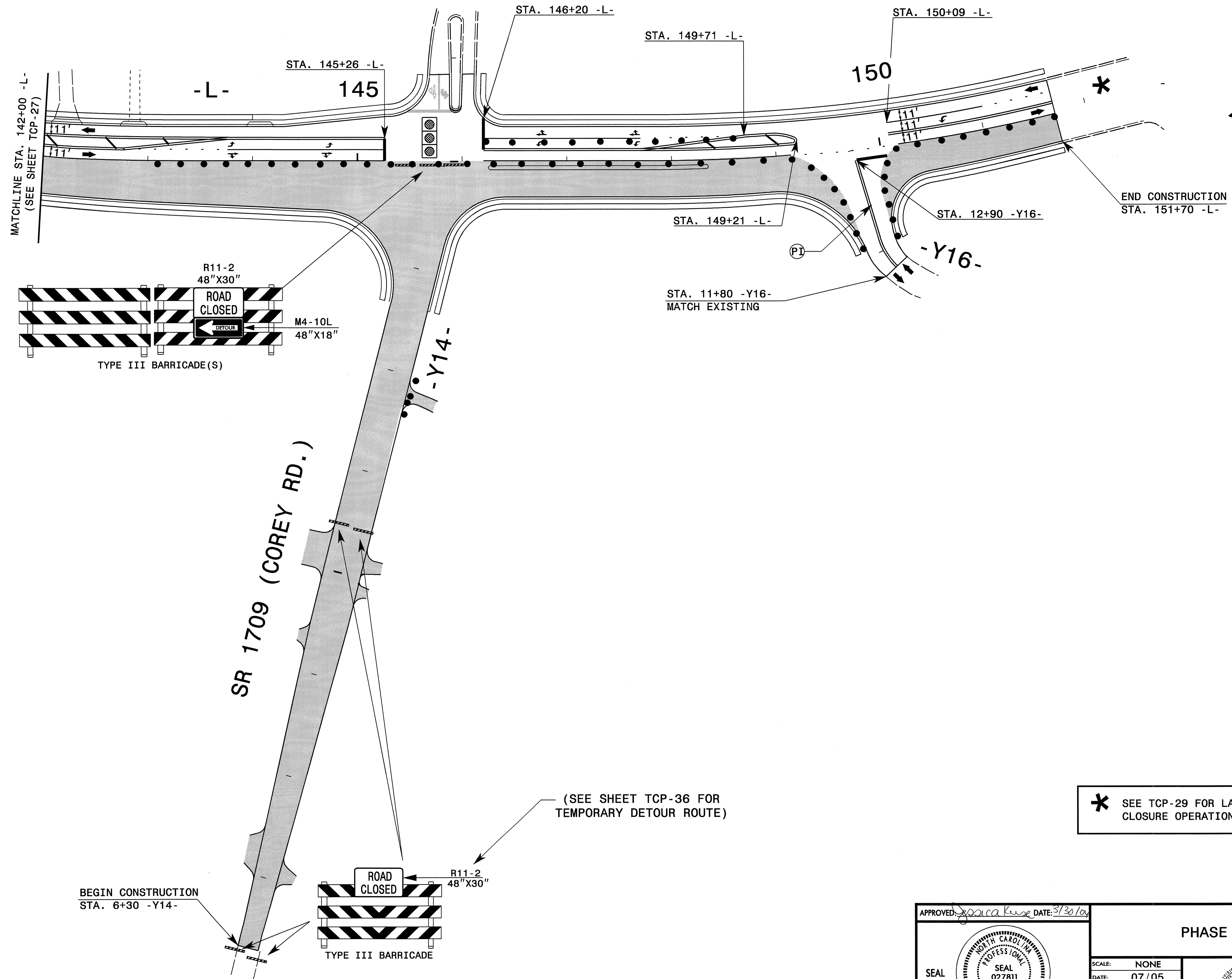
30-MAR-2006 10:05
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NOTE:
COVER ALL SIGNS AND REMOVE ALL PAVEMENT
MARKINGS / MARKERS OR SYMBOLS CONFLICTING
WITH THIS TEMPORARY TRAFFIC PATTERN.

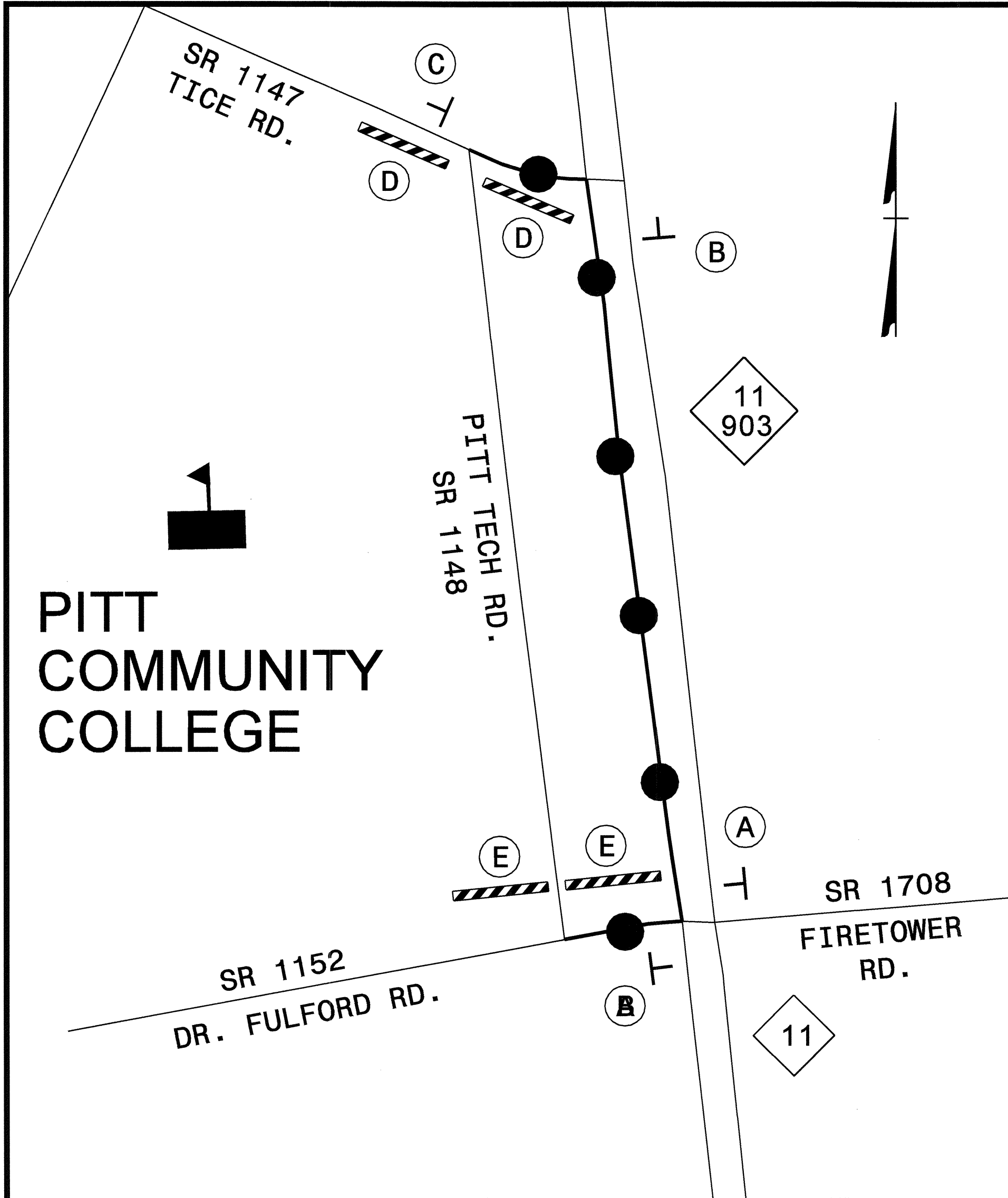
APPROVED: <i>[Signature]</i> DATE: 3/30/10		PHASE II DETAIL	
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	DATE: 07/05		
	DWG. BY: RMG		
	DESIGN BY: RMG		
REVIEWED BY: JDK	REVISIONS		CADD FILE

30-MAR-2006 14:05
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rmg17611 AT WZTC2229J

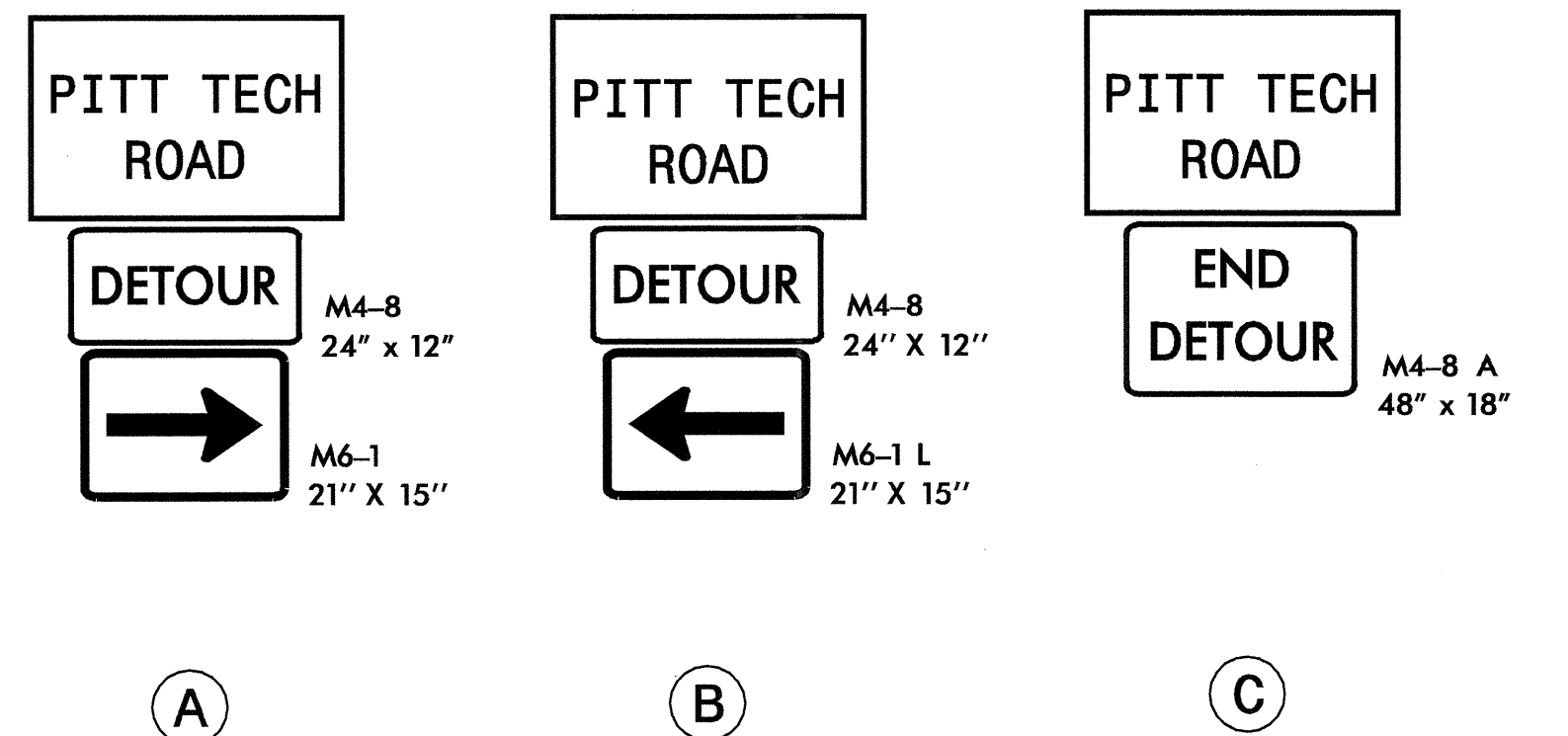
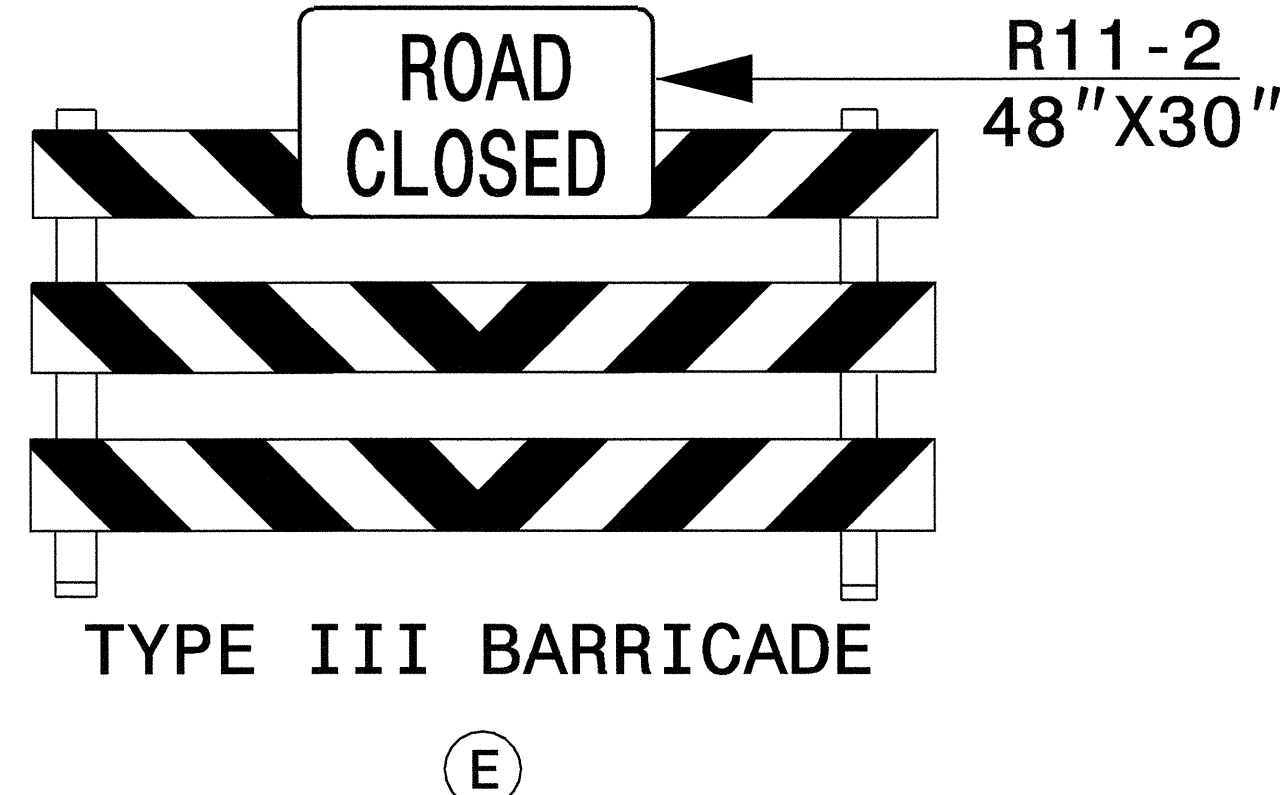
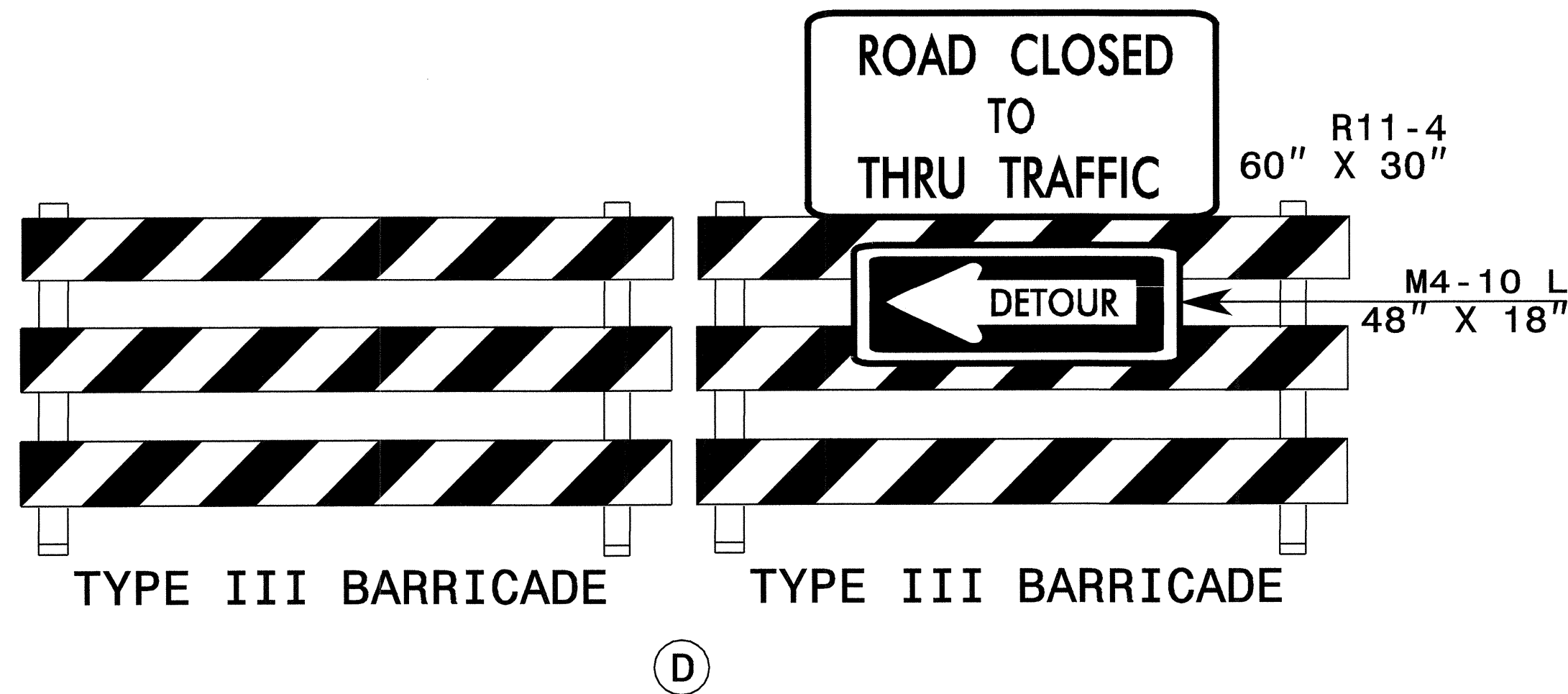


* SEE TCP-29 FOR LANE CLOSURE OPERATION

APPROVED: <i>Jessica D. Kus</i> DATE: 3/30/05		PHASE II DETAIL	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 07/05		
	DWG. BY: RMG		
	DESIGN BY: RMG		
REVIEWED BY: JDK		CADD FILE	

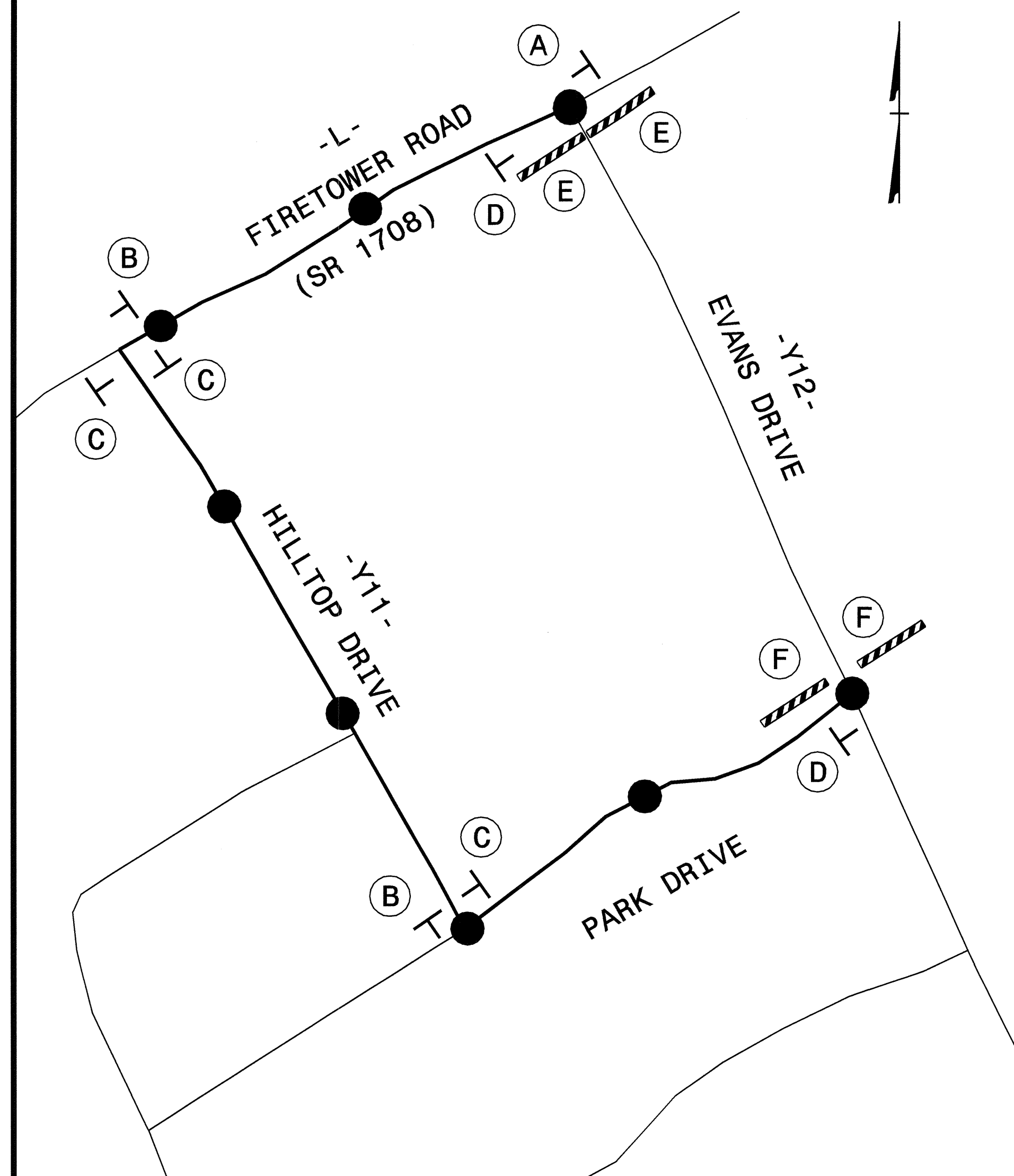


● — ● DETOUR ROUTE



APPROVED: <i>Jessica D. Kuss</i> DATE: 3/20/06	PHASE I OFFSITE DETOUR -Y- (PITT TECH ROAD)	
SEAL 	SCALE: NONE	
	DATE: 06/04	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK	REVISIONS	

Sign Number: Type: D Ground Quantity: 1	Design By: DME Project ID:	Check By: DIV:	STD #: N/A Date: Feb 15, 2006	N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH SIGNING DEPARTMENT																																																																																																																																																																																					
Sign Width: 4'-0" Height: 2'-0" Total Area: 8.0 Sq.Ft.	Background Color: Fluorescent Orange Legend & Border Color: Black																																																																																																																																																																																								
Border Type: Recessed Recess: 0.38" Width: 0.63" Radii: 1.5"	Backing Material: 0.125 in. Aluminum 0.079 in. 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.																																																																																																																																																																																									
<table><tr><th colspan="24">Letter spacings are to start of next letter</th><th>Series/Size Text Length</th></tr><tr><td></td><td></td><td>P</td><td>I</td><td>T</td><td>T</td><td></td><td>T</td><td>E</td><td>C</td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D6</td></tr><tr><td></td><td></td><td>4.5</td><td>5.5</td><td>2.1</td><td>4</td><td>3.7</td><td>5</td><td>4.8</td><td>4.8</td><td>5.2</td><td>4.1</td><td>4.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>39</td></tr><tr><td></td><td></td><td>R</td><td>O</td><td>A</td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>D6</td></tr><tr><td></td><td></td><td>13.7</td><td>5.2</td><td>5.4</td><td>6.1</td><td>4</td><td>13.7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>20.7</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Spacing Factor is 1 unless specified otherwise FILENAME: GS40_ENGL					Letter spacings are to start of next letter																								Series/Size Text Length			P	I	T	T		T	E	C	H															D6			4.5	5.5	2.1	4	3.7	5	4.8	4.8	5.2	4.1	4.5													39			R	O	A	D																				D6			13.7	5.2	5.4	6.1	4	13.7																		20.7																																																				
Letter spacings are to start of next letter																								Series/Size Text Length																																																																																																																																																																	
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		R	O	A	D																				D6																																																																																																																																																																
		13.7	5.2	5.4	6.1	4	13.7																		20.7																																																																																																																																																																



Sign Number:
Type: D Ground
Quantity: 1

Design By: DME
Project ID: U-3613B

Check By:
DIV: 2

STD #: N/A
Date: Aug 01, 2005

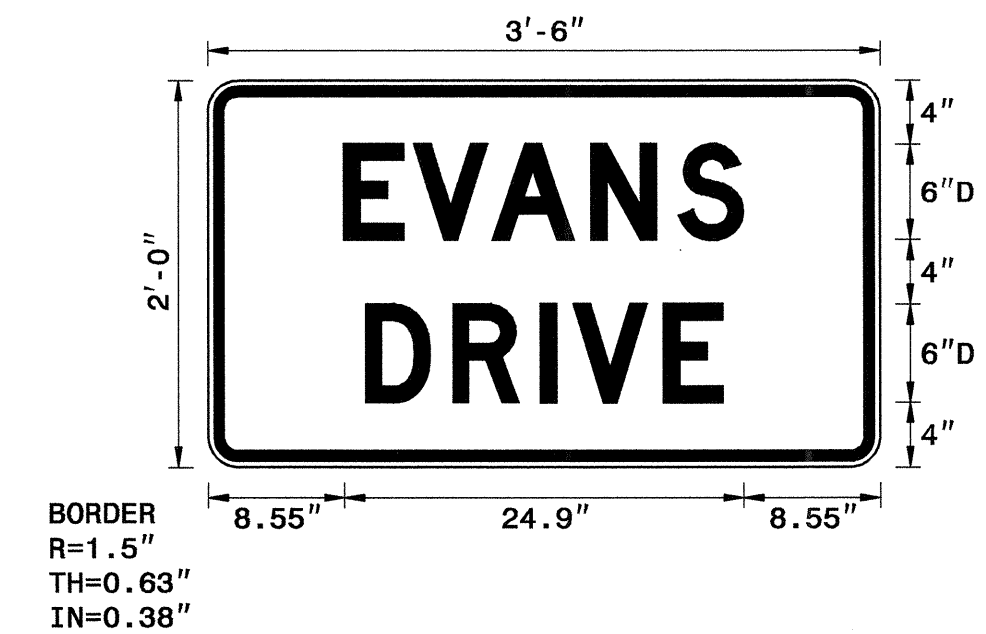
N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT

Sign Width: 3'-6" Background Color: Fluorescent Orange
Height: 2'-0" Legend & Border Color: Black
Total Area: 7.0 Sq.Ft.

Border Type: Recessed **Backing Material:** 0.125 in. Aluminum
Recess: 0.38" 0.079 in. Composite
Width: 0.63"
Radii: 1.5"

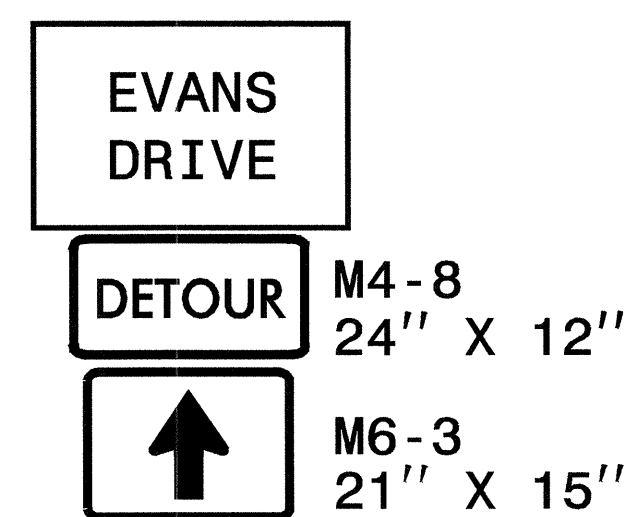
NOTES:

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

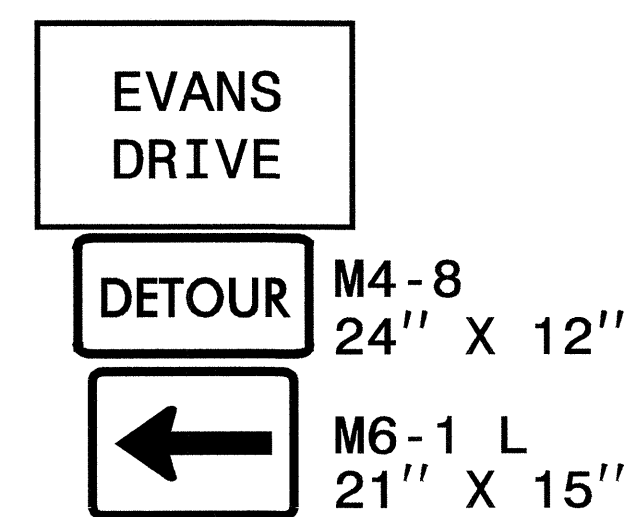
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Spacing Factor is 1 unless specified otherwise
FILENAME: GS40 ENGL

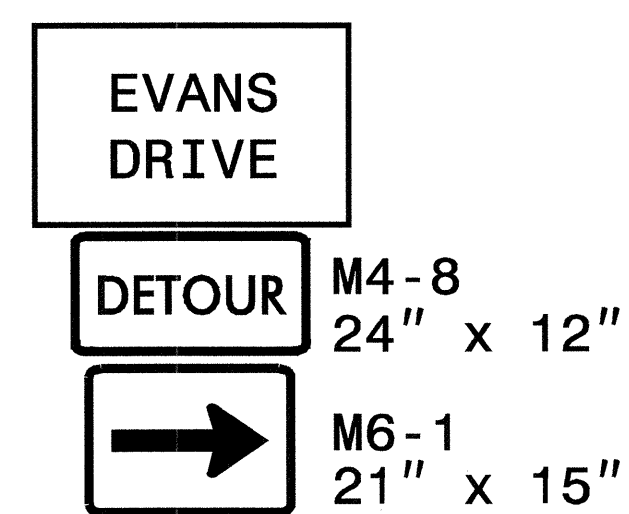
DETOUR ROUTE



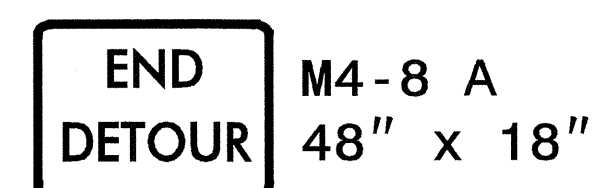
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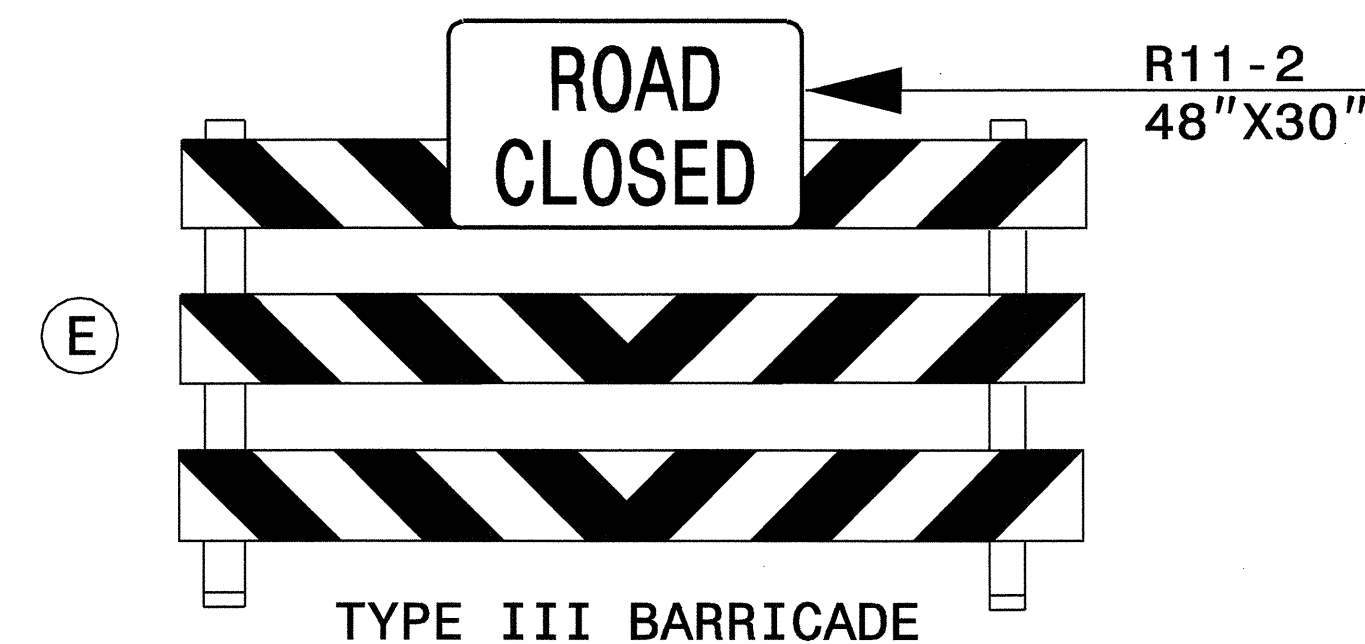
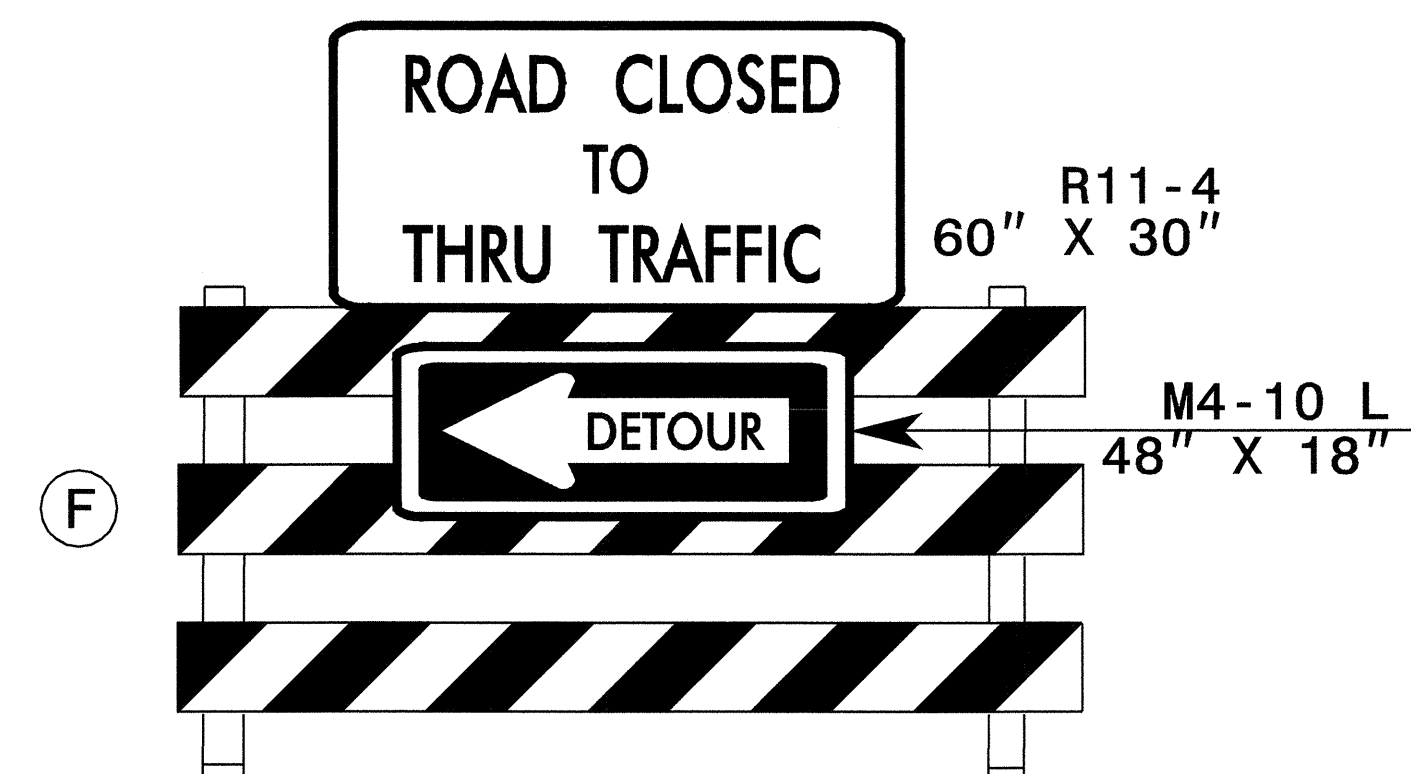
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©



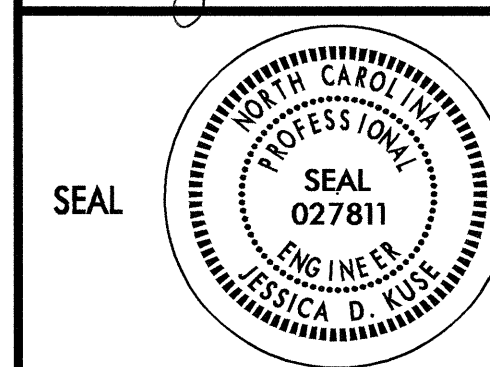
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NOTES:

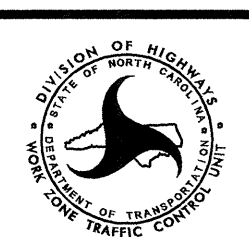
- 1) THE WORK OF COVERING ANY EXISTING SIGNS WILL BE INCIDENTAL TO THE DETOUR SIGNING.
- 2) ALL SIGN LOCATIONS WILL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

APPROVED: Signature DATE: 3/30/00

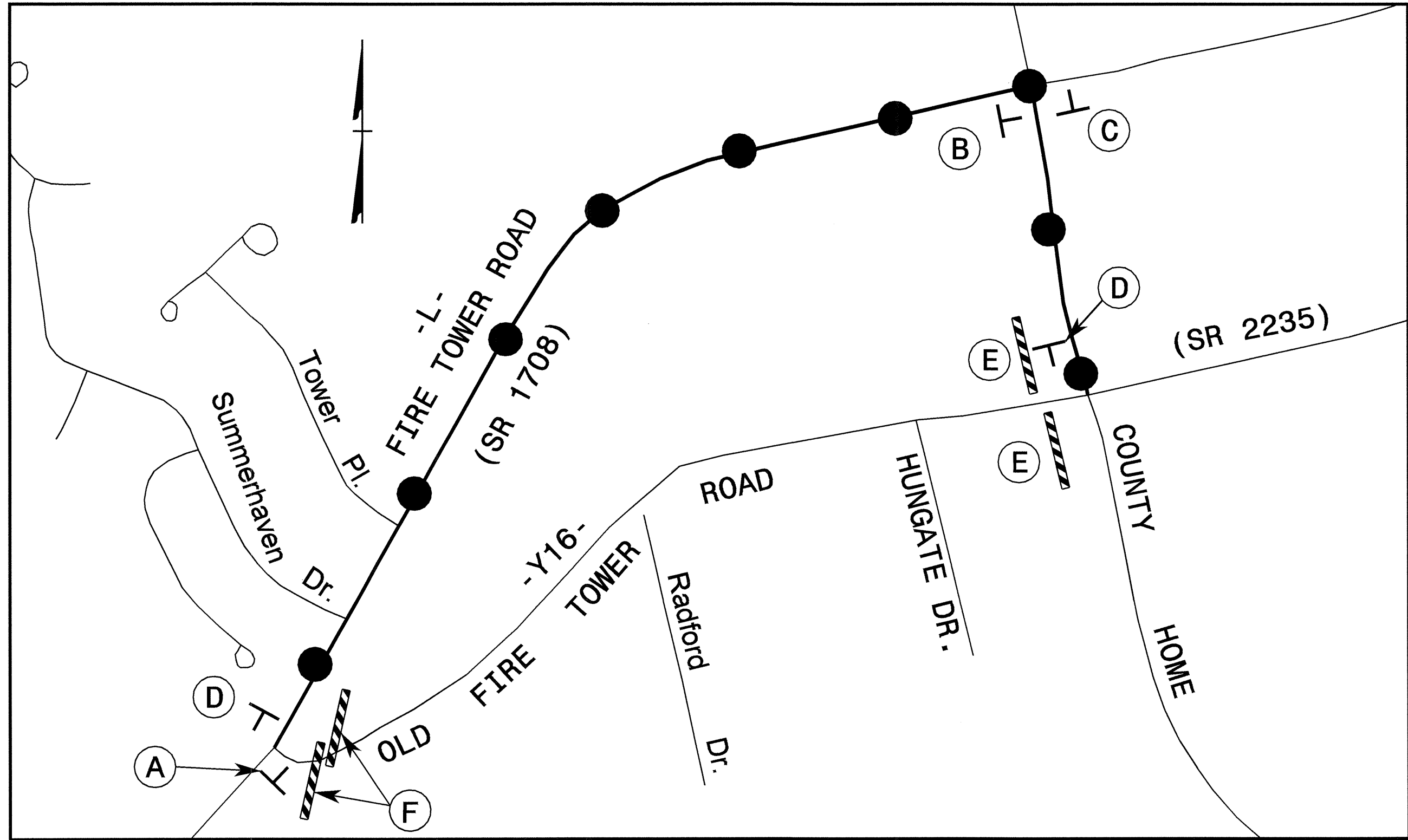


PHASE II OFFSITE DETOURS
-Y12- (EVANS DRIVE)

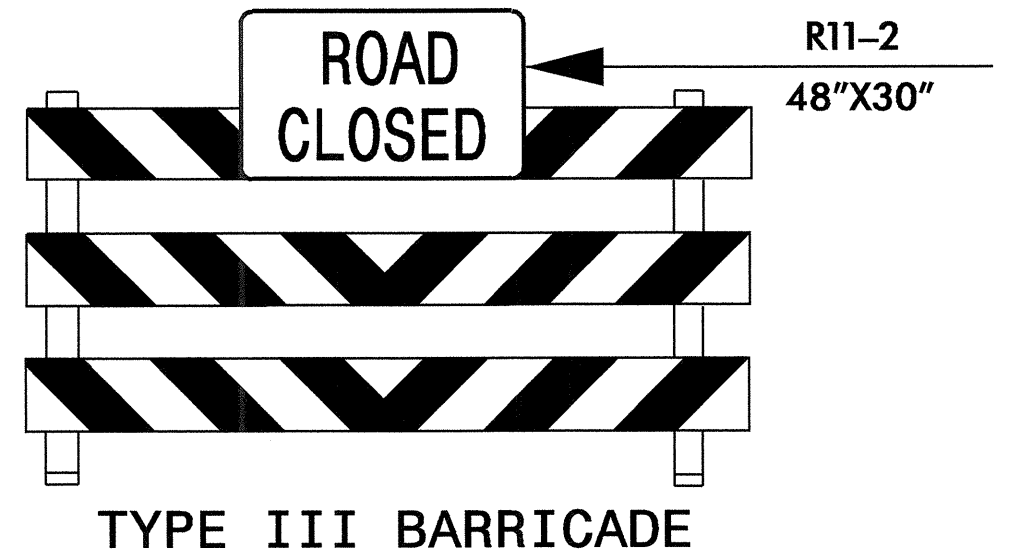
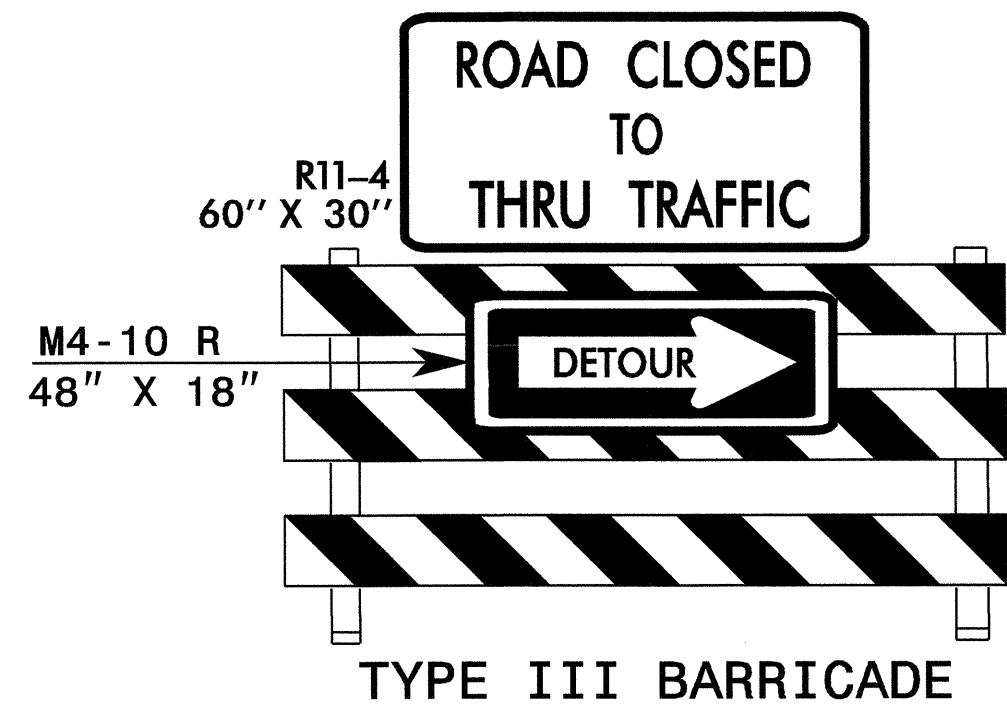
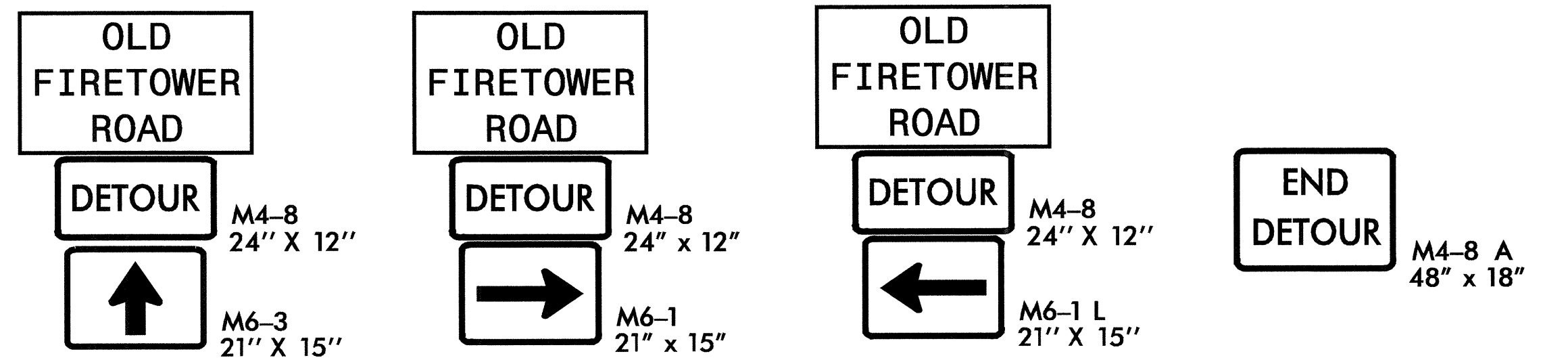
SCALE:	NONE
DATE:	06/04
DWG. BY:	RMG
DESIGN BY:	RMG
REVIEWED BY:	JDK



REVISIONS	



DETOUR ROUTE



Sign Number: Type: D Ground
Quantity: 1
Design By: DME
Project ID: U-3613B

Check By: DIV: 2

STD #: N/A
Date: Aug 01, 2005

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

Sign Width: 4'-0"
Height: 3'-0"
Total Area: 12.0 Sq.Ft.
Background Color: Fluorescent Orange
Legend & Border Color: Black

Border Type: Recessed
Recess: 0.63"
Width: 0.88"
Radii: 2.25"
Backing Material: 0.125 in. Aluminum
0.079 in. Composite

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

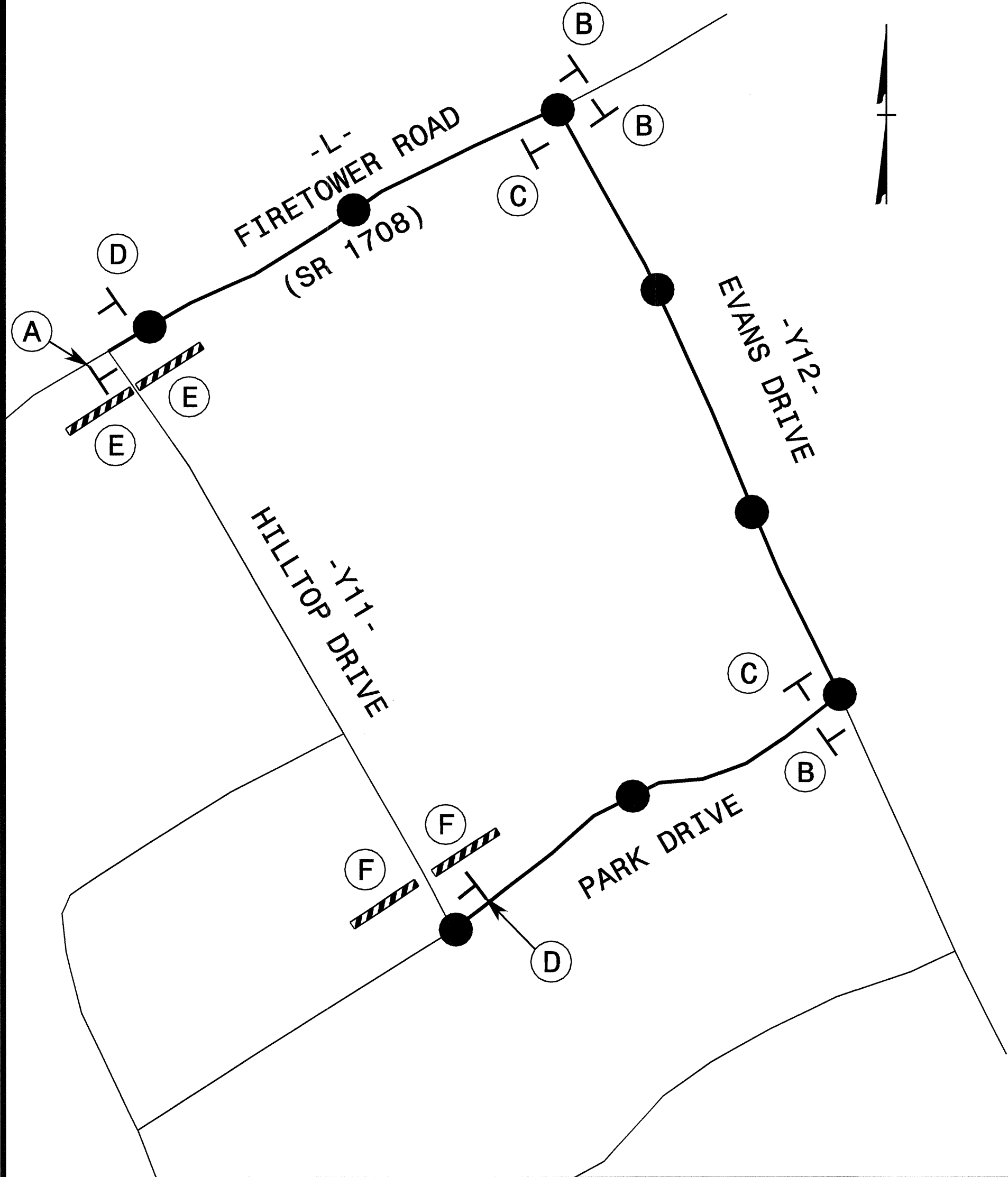


Letter spacings are to start of next letter																		Series/Size Text Length
	O	L	D															C6
17.8	4.7	4	3.3	0.4	17.8													12.4
	F	I	R	E	T	O	W	E	R									C6
6.2	4	2.1	4.6	3.7	4	4.5	5.5	4	3.3	6.2								35.6
	R	O	A	D														C6
15.6	4.3	4.5	4.8	3.3	15.6													16.8

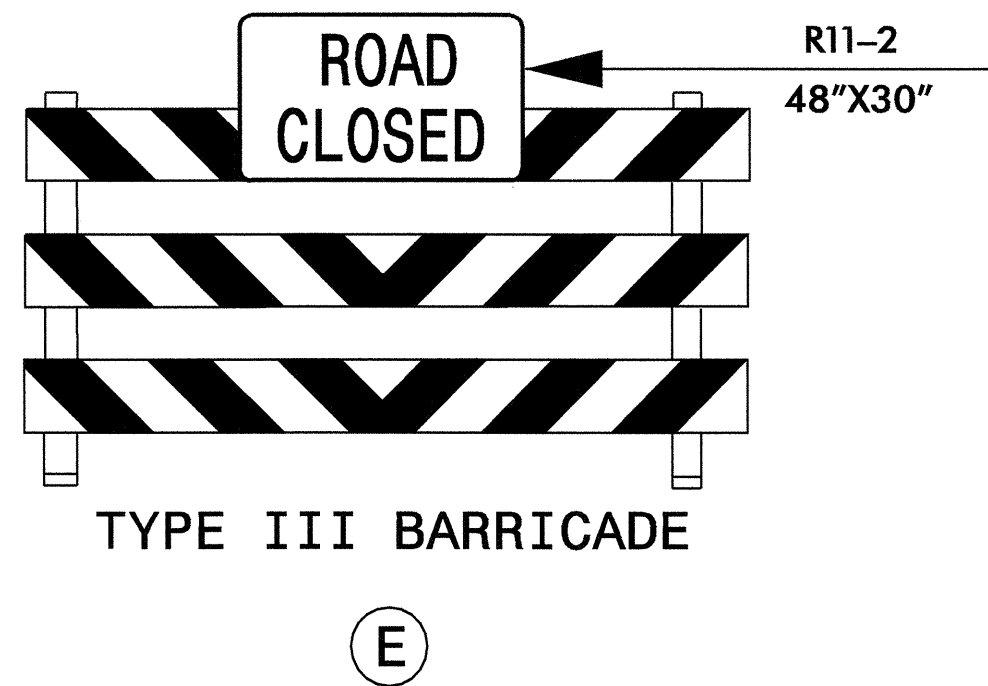
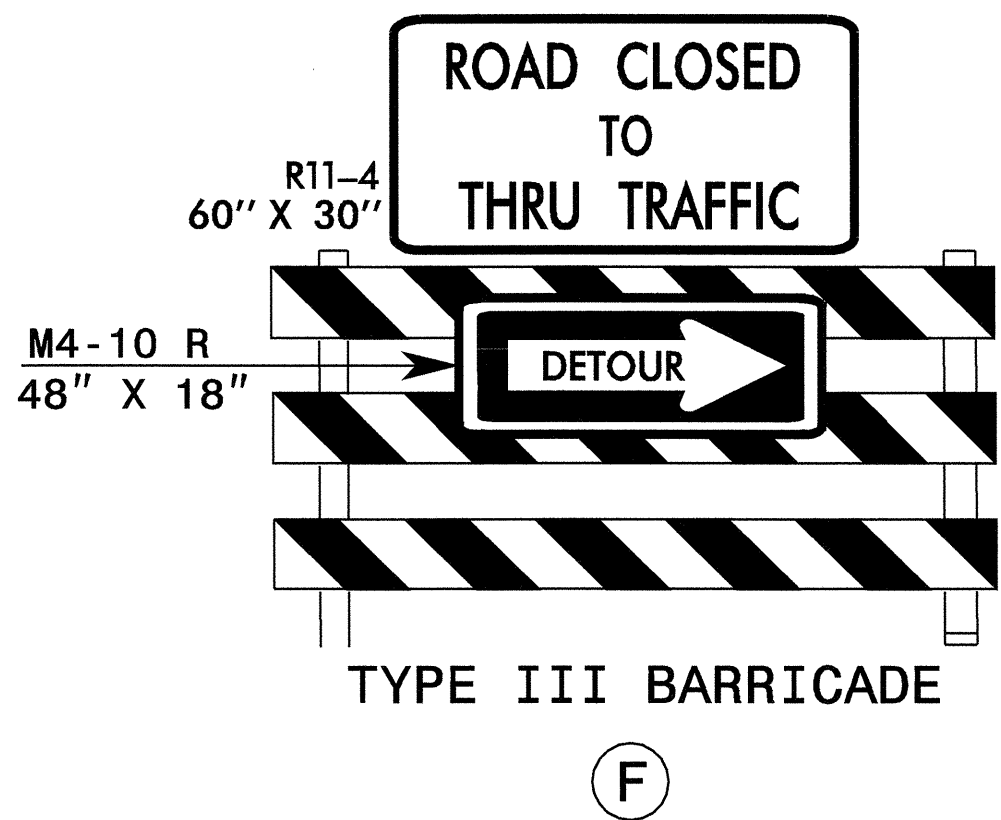
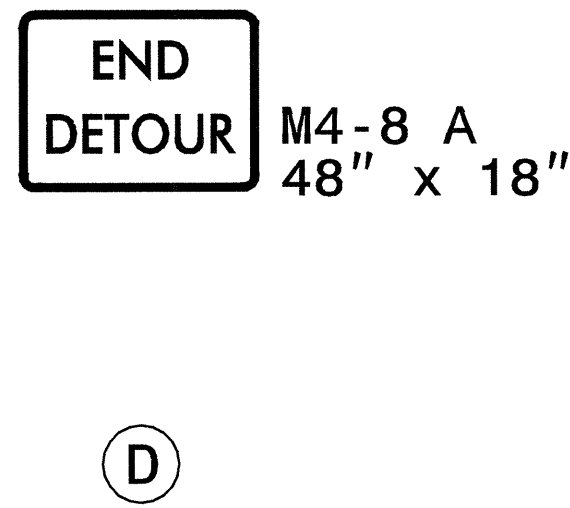
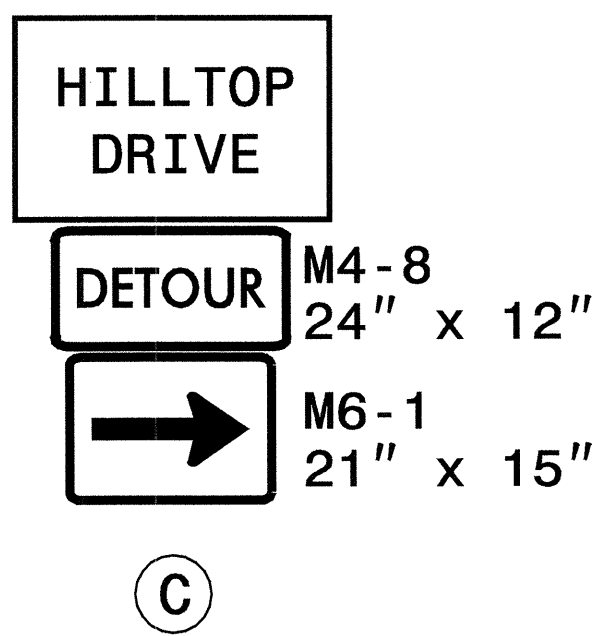
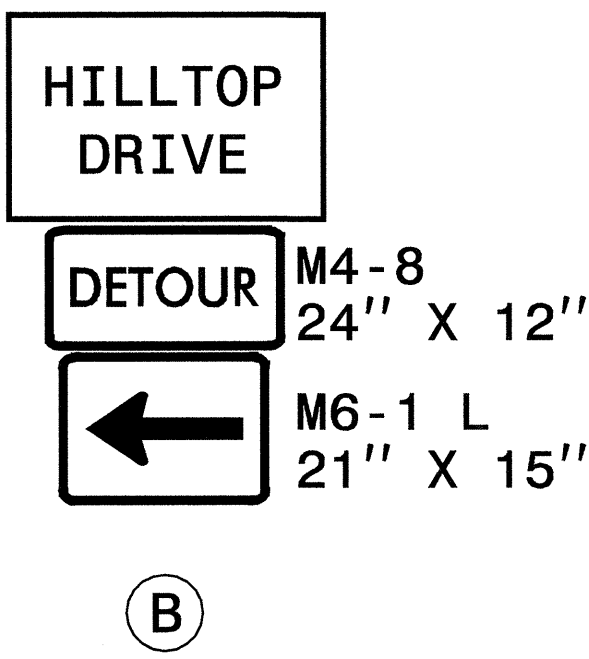
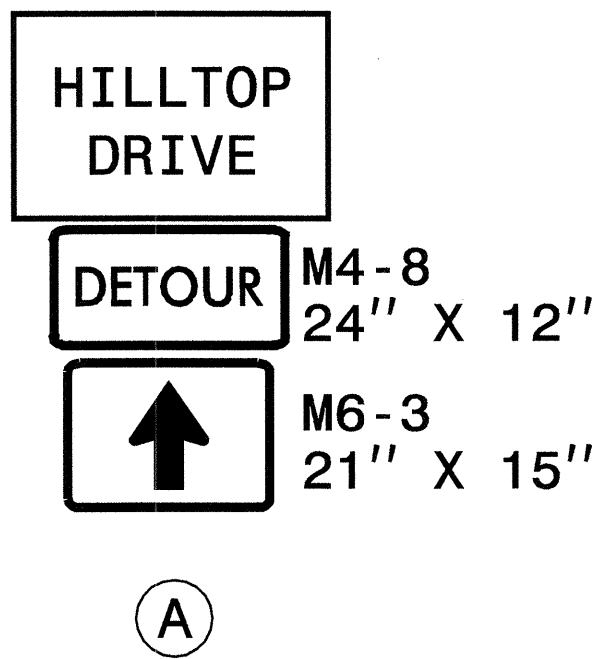
Spacing Factor is 1 unless specified otherwise
FILENAME: GS40_ENGL

- NOTES:
- THE WORK OF COVERING ANY EXISTING SIGNS WILL BE INCIDENTAL TO THE DETOUR SIGNING.
 - ALL SIGN LOCATIONS WILL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

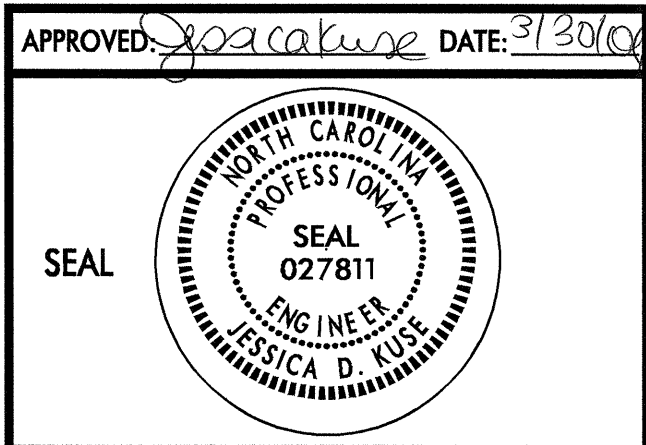
APPROVED: <i>Jessica D. Kusi</i> DATE: 3/20/06	PHASE II OFFSITE DETOURS -Y16- (OLD FIRETOWER ROAD)	
SEAL 	SCALE: NONE	
	DATE: 07/25	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK	REVISIONS	CADD FILE



DETOUR ROUTE

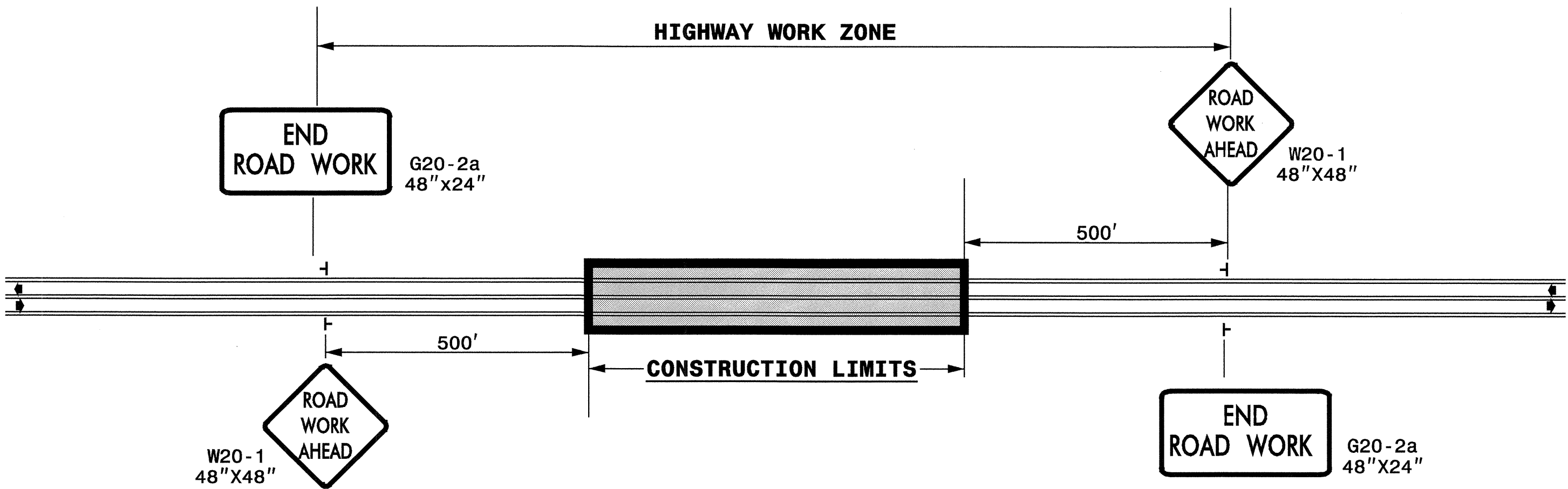


- NOTES:
- THE WORK OF COVERING ANY EXISTING SIGNS WILL BE INCIDENTAL TO THE DETOUR SIGNING.
 - ALL SIGN LOCATIONS WILL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.



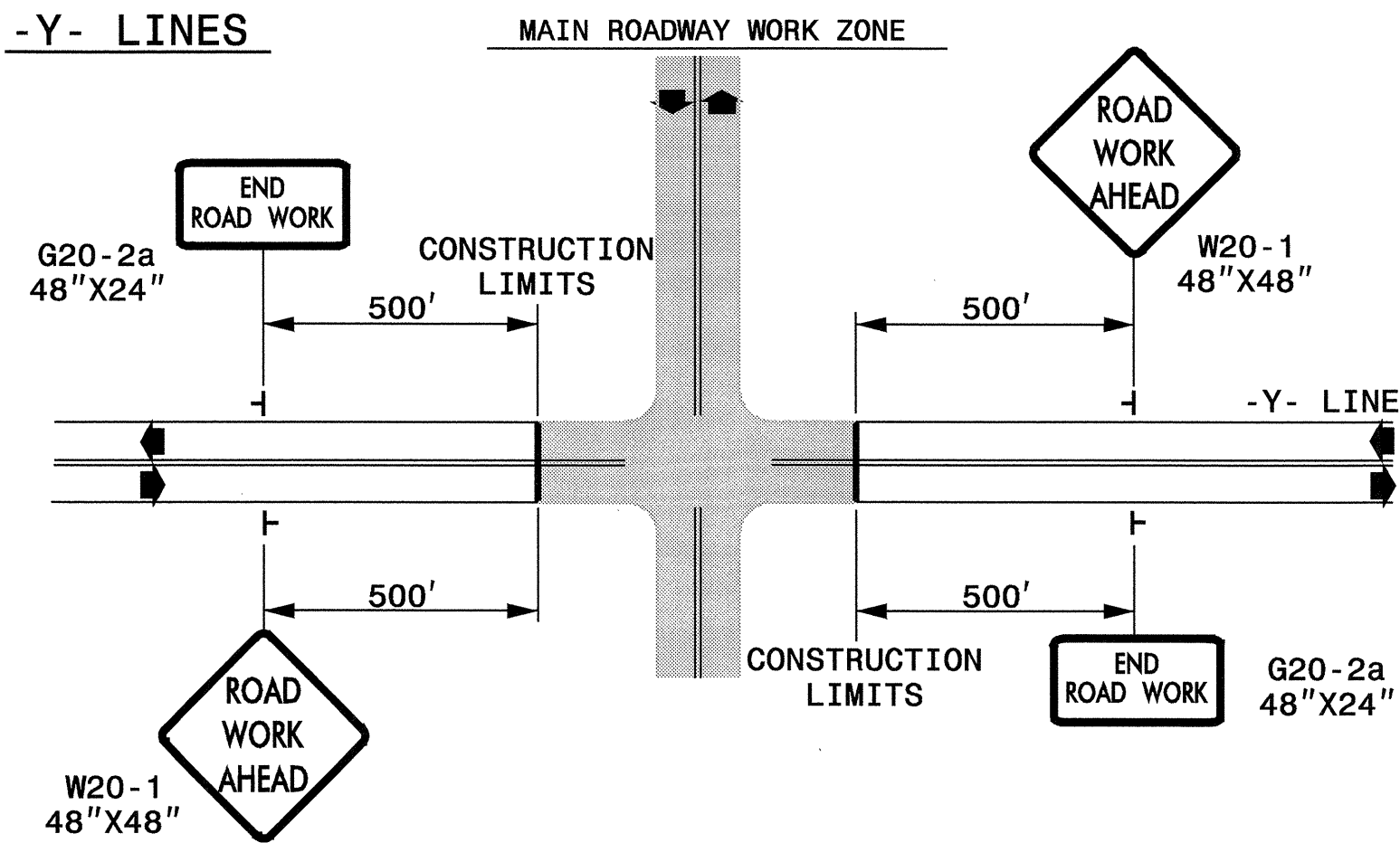
PHASE II OFFSITE DETOURS			REVISIONS	
-Y11- (HILLTOP DRIVE)				
SCALE: NONE				
DATE: 06/04				
DWG. BY: RMG				
DESIGN BY: RMG				
REVIEWED BY: JDK				

TWO-WAY UNDIVIDED ** (L-LINES)



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

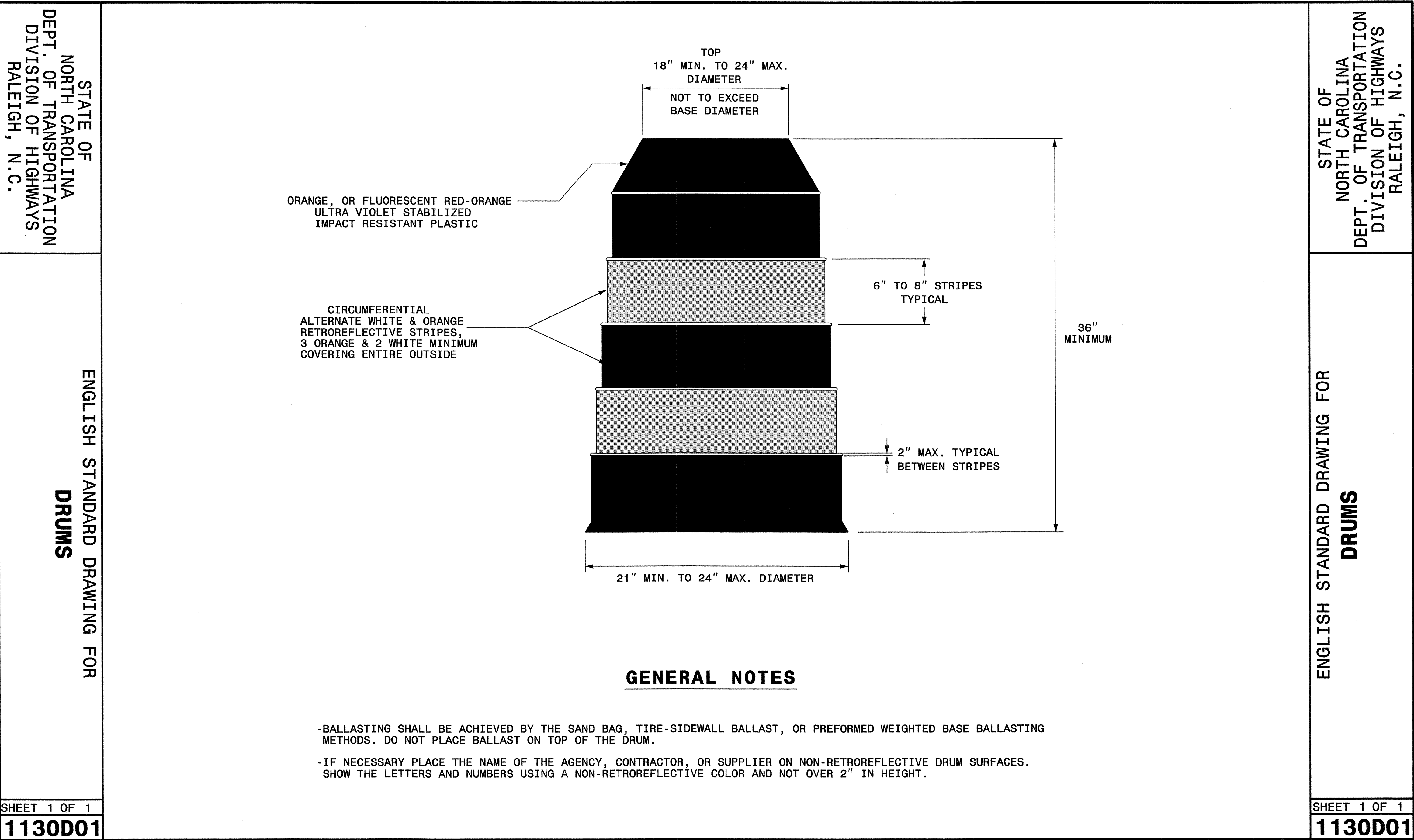
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, 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

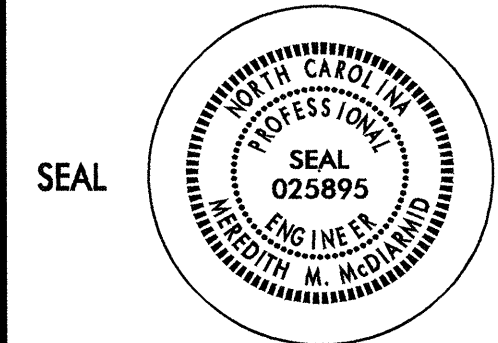
- └ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: <i>Jessica D. Kuse</i> DATE: 3/30/00	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
SEAL 	SCALE: NONE	
	DATE: 1005	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK		
		REVISIONS
		7-98 10/01
		10-98 03/04
		01/01 11/04



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	

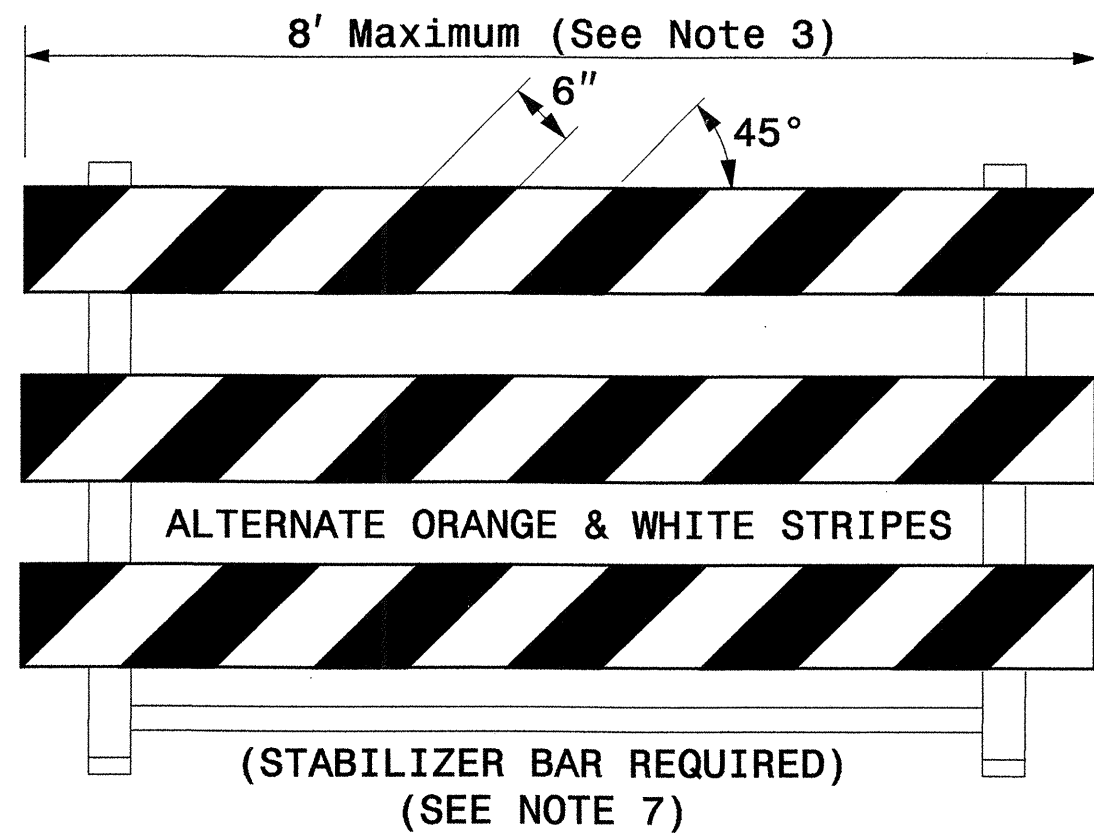
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-05

ENGLISH STANDARD DRAWING FOR
BARRICADES
TYPE-III

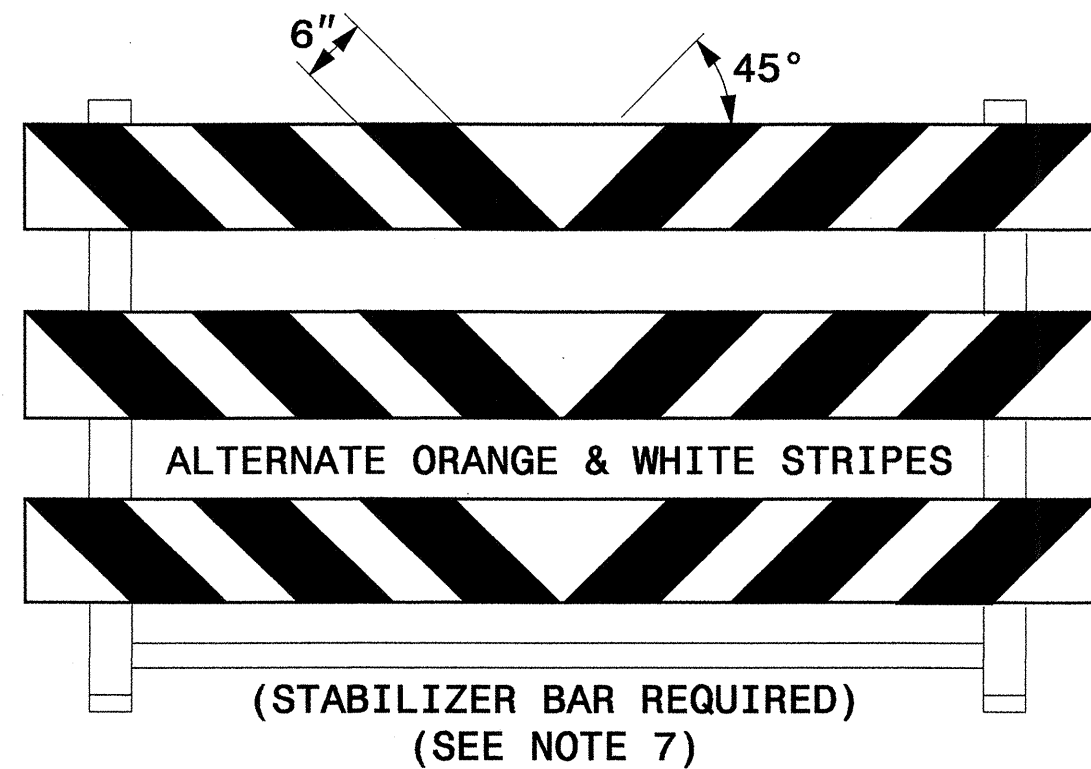
SHEET 1 OF 1
1145D01

TYPE III BARRICADE



TYPE III BARRICADE

END-OF-ROADWAY APPLICATIONS



GENERAL NOTES

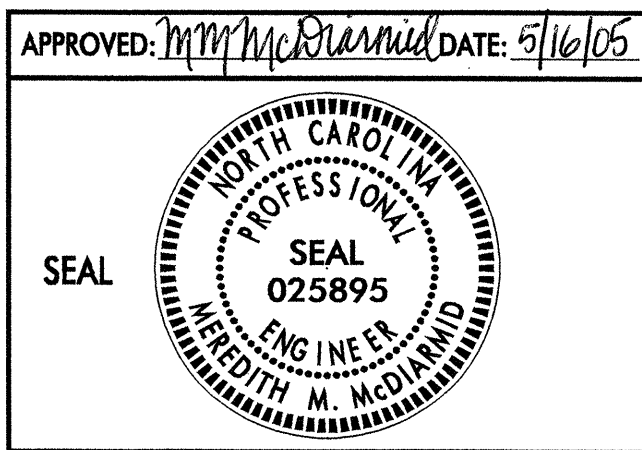
- 1) HORIZONTAL RAILS FOR TYPE-III BARRICADES MAY BE HOLLOW/CORRUGATED EXTRUDED RIGID POLYOLEFIN, HIGH DENSITY POLYETHYLENE, OR OTHER NCDOT APPROVED RAILS. BARRICADE RAILS OF FRANGIBLE PLASTICS SUCH AS PVC MAY NOT BE USED. IF APPROVED PLASTIC TYPE RAILS ARE USED, THEY MUST BE FLAME TREATED BY THE MANUFACTURER 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.

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1-05

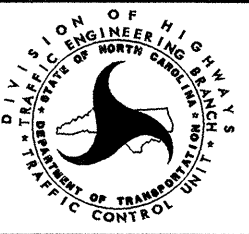
ENGLISH STANDARD DRAWING FOR
BARRICADES
TYPE-III

SHEET 1 OF 1
1145D01



**REPLACEMENT DETAIL FOR
RSD 1145.01**

SCALE: NONE
DATE: 11/04
DWG. BY: MMM
DESIGN BY: MMM
REVIEWED BY: MMM



REVISIONS	

CADD
FILE