

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**

U-3613B

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

TIP PROJECT:



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APPROVED: <i>Jessica Kuse</i> DATE: 3/30/06	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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 rmgarrett AT WZTC22291

APPROVED: <i>[Signature]</i> DATE: 3/31/06	TEMPORARY PAVEMENT MARKING SCHEDULE									
	SCALE: NONE									
	DATE: 07/05									
	DESIGN BY: RMG									
	REVIEWED BY: JDK									
		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS							
REVISIONS										

GENERAL NOTES

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 UNDESIRABLE 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.

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

PHASE I

- 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 THROUGH 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 TEMPORARY 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.

30-MAR-2006 10:46 C:\p136\1368\tr\offic\tr\top\phase\U3613B.tcp.phi_top04.dgn

APPROVED: <i>Jessica D. Kuss</i> DATE: 3/3/06	PHASING	
	SCALE: NONE	REVISIONS
	DATE: 06/04	
	DESIGN BY: RMG	
	REVIEWED BY: JDK	

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).

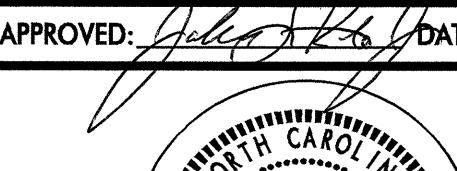
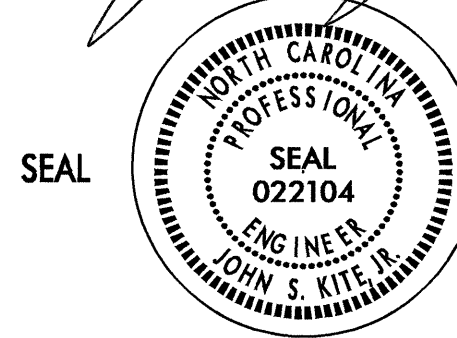

- STEP 11 - USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AS NEEDED INSTALL THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND MARKERS ON THE FOLLOWING: (SEE SHEETS PM-2 THROUGH PM-7 AND ROADWAY PLANS) (SEE LOCAL NOTES 4 & 5)

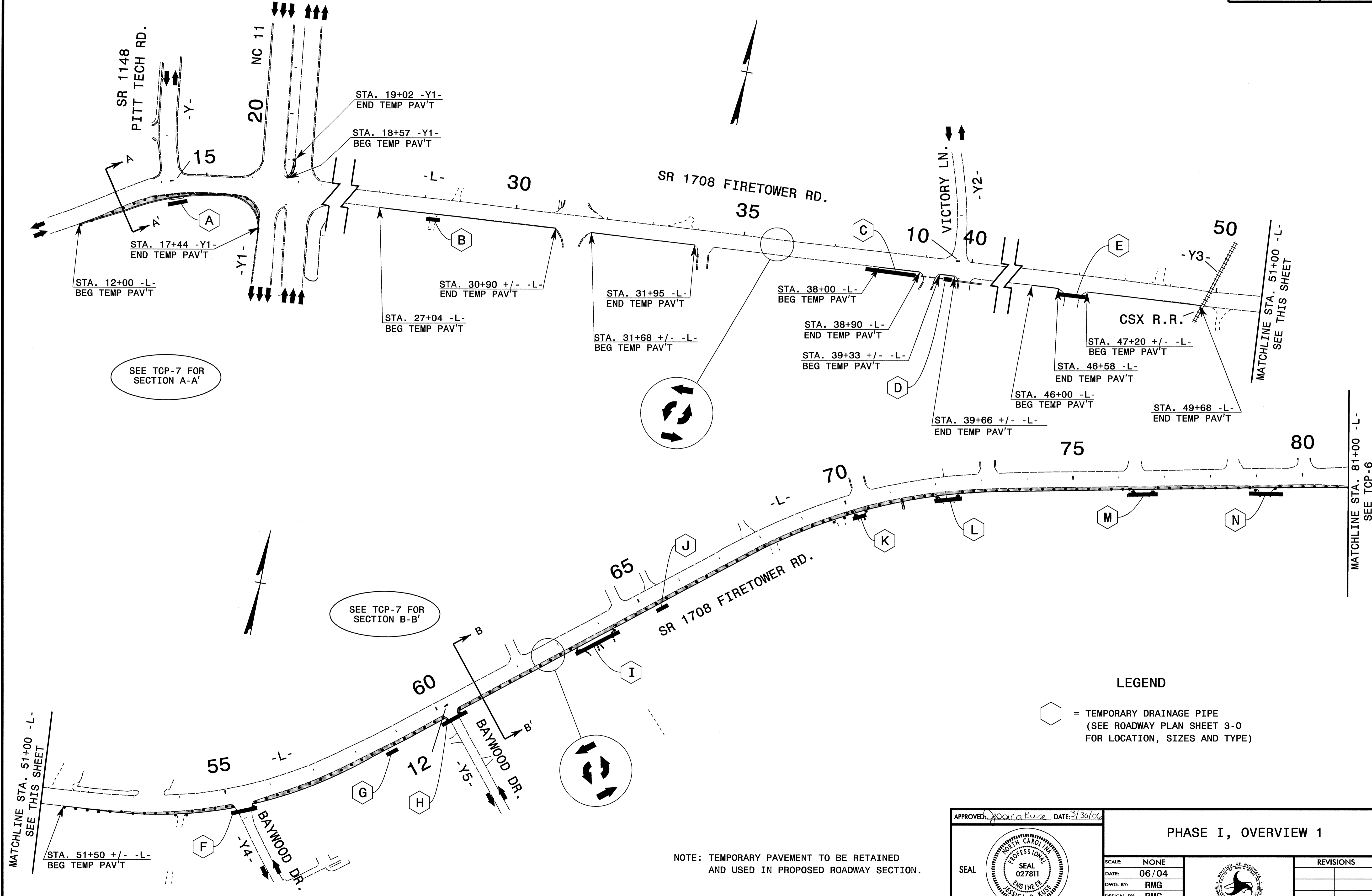
- L- STA. 17+30+/- TO STA. 151+70+/- WESTBOUND LANES
- Y1- STA. 17+00+/- TO STA. 23+00+/- NORTHERN LEG
- Y1A- STA. 10+35+/- TO STA. 11+00+/-
- Y2- STA. 10+35+/- TO STA. 11+67+/-
- Y6- STA. 13+72+/- TO STA. 18+46+/- NORTHERN LEG
- Y7- STA. 10+75+/- TO STA. 12+00+/-
- Y9- STA. 10+35+/- TO STA. 11+00+/-
- 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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Pmgarrett AT WZTC2229

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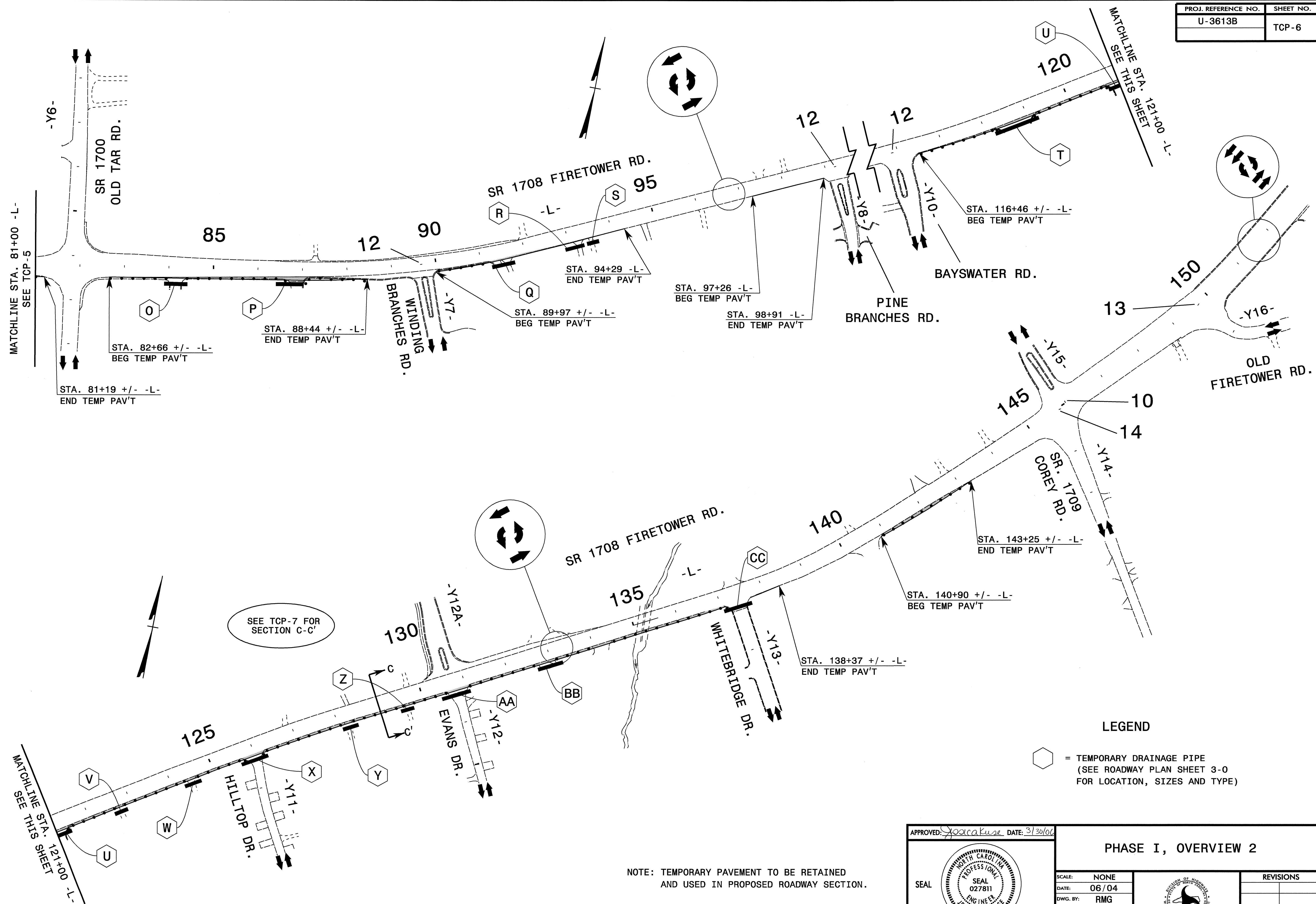
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⬡ = TEMPORARY DRAINAGE PIPE
 (SEE ROADWAY PLAN SHEET 3-0 FOR LOCATION, SIZES AND TYPE)

APPROVED: <i>[Signature]</i> DATE: 3/30/06		PHASE I, OVERVIEW 1									
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NOTE: TEMPORARY PAVEMENT TO BE RETAINED AND USED IN PROPOSED ROADWAY SECTION.

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30-MAR-2006 10:48
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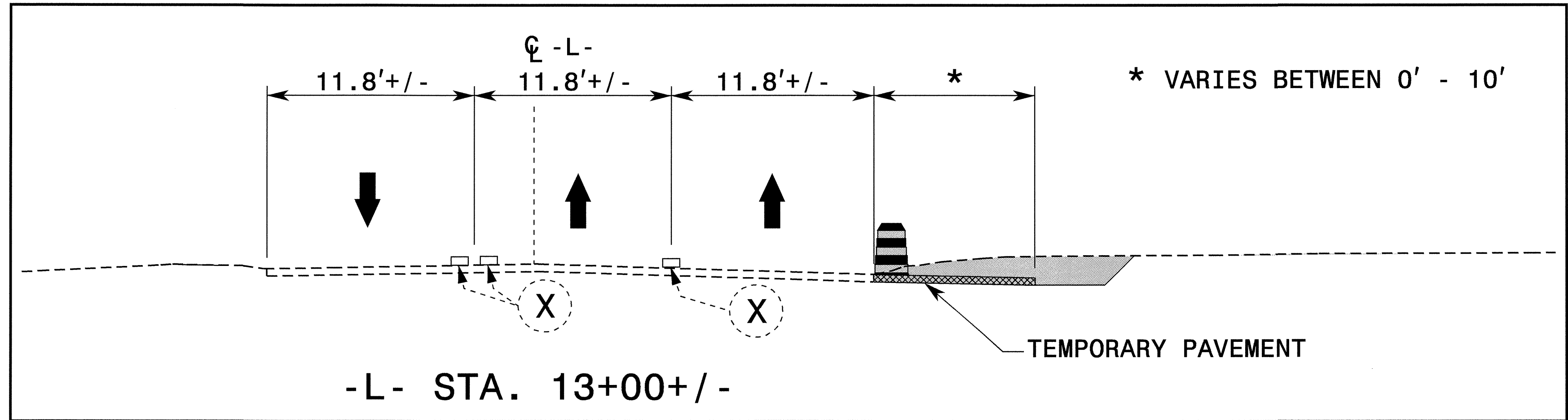
SEE TCP-7 FOR SECTION C-C'

LEGEND

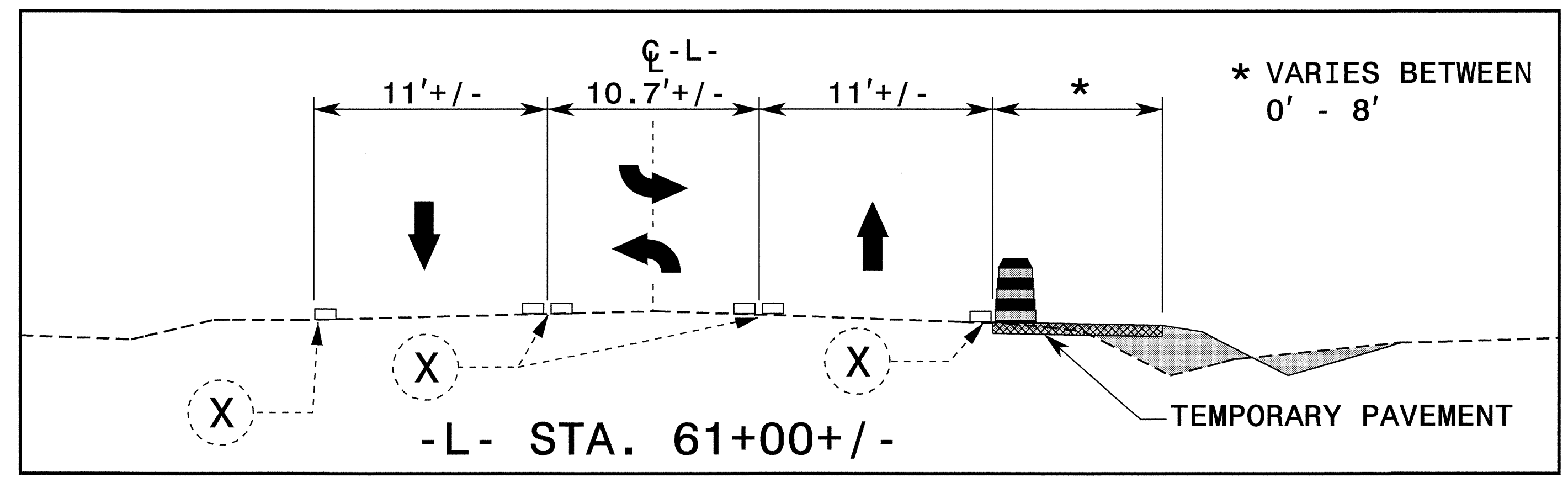
= TEMPORARY DRAINAGE PIPE
 (SEE ROADWAY PLAN SHEET 3-0 FOR LOCATION, SIZES AND TYPE)

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

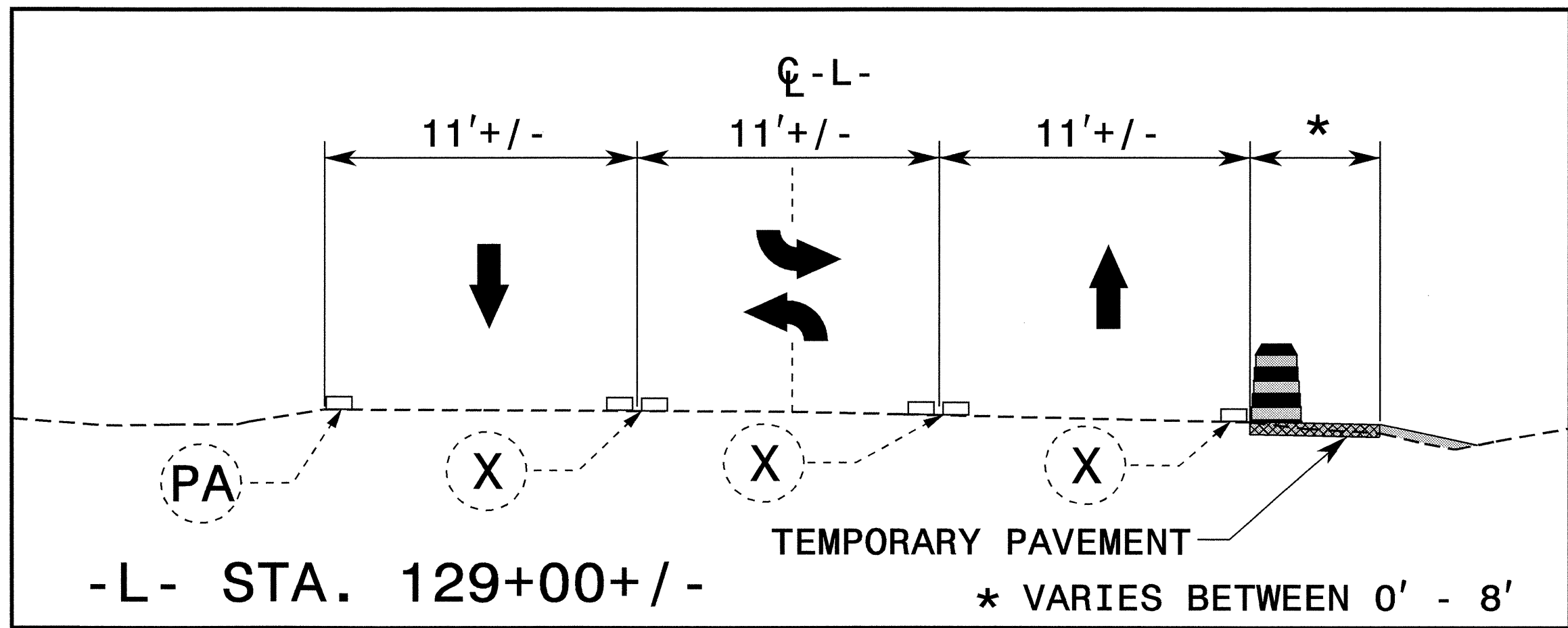
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REVIEWED BY: JDK	CADD FILE									



SECTION A-A'



SECTION B-B'

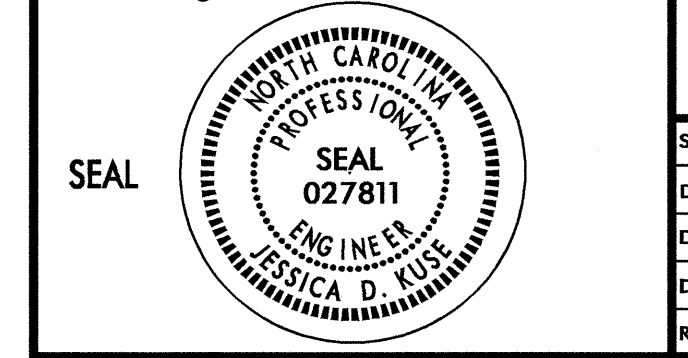


SECTION C-C'

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

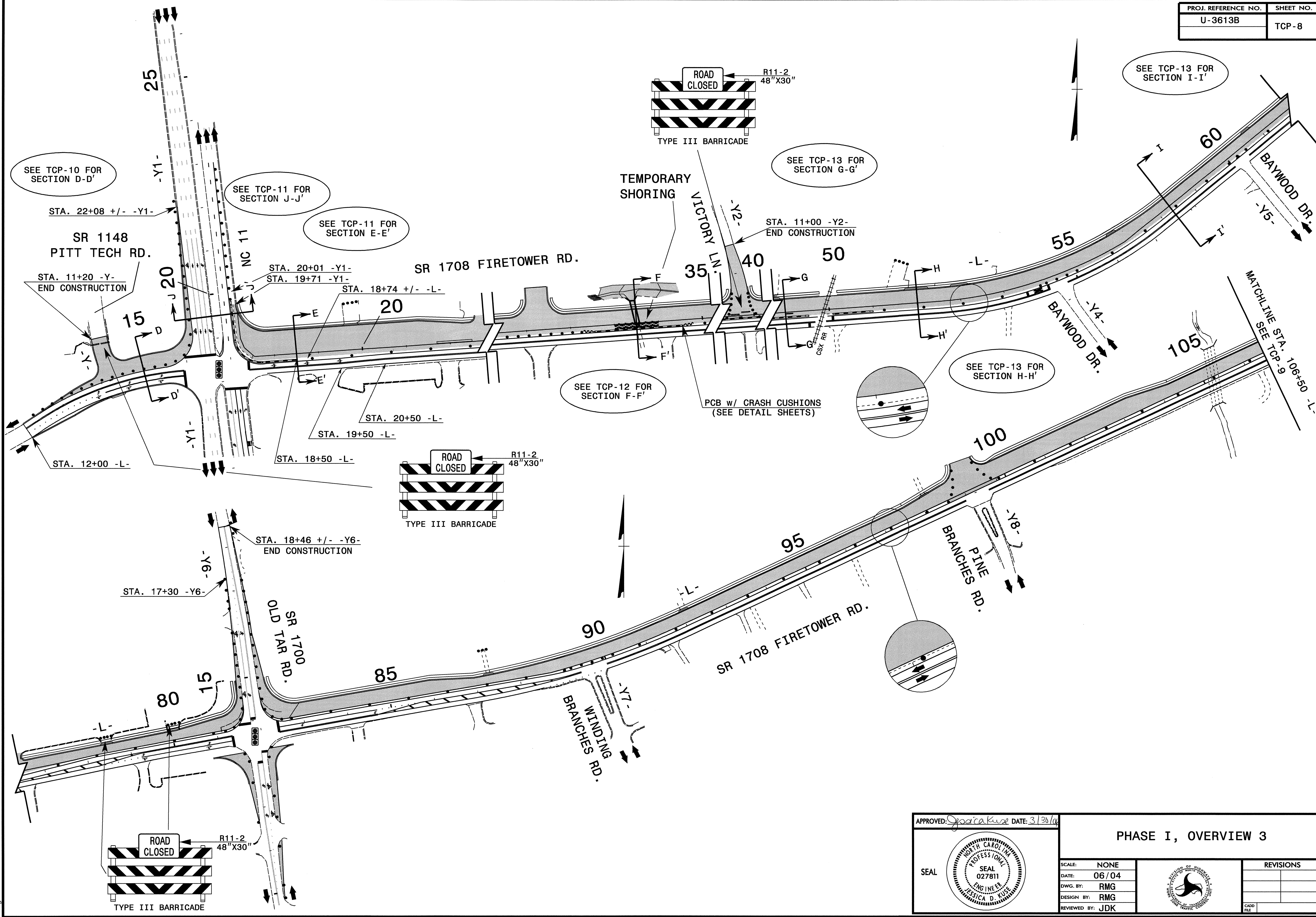
- EXISTING MARKINGS
- TEMPORARY PAVEMENT

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



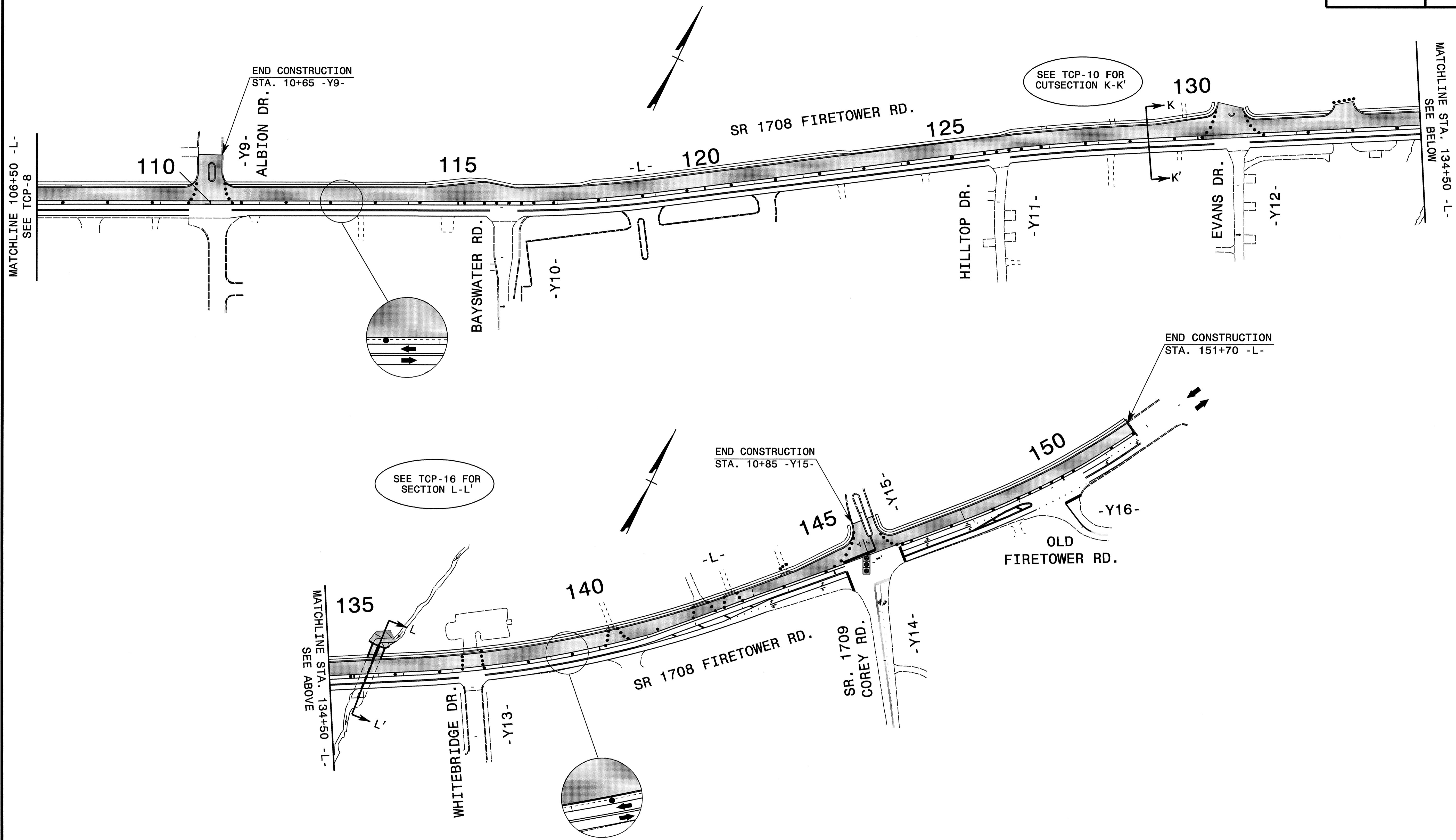
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DATE: 06/04	
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DESIGN BY: RMG	
REVIEWED BY: JDK	

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 AT 14:12:22



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APPROVED: <i>Jessica D. Tusk</i> DATE: 3/30/04	PHASE I, OVERVIEW 3					
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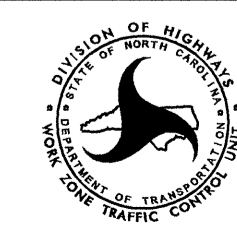
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APPROVED: *Jessica D. Kuse* DATE: 3/30/06



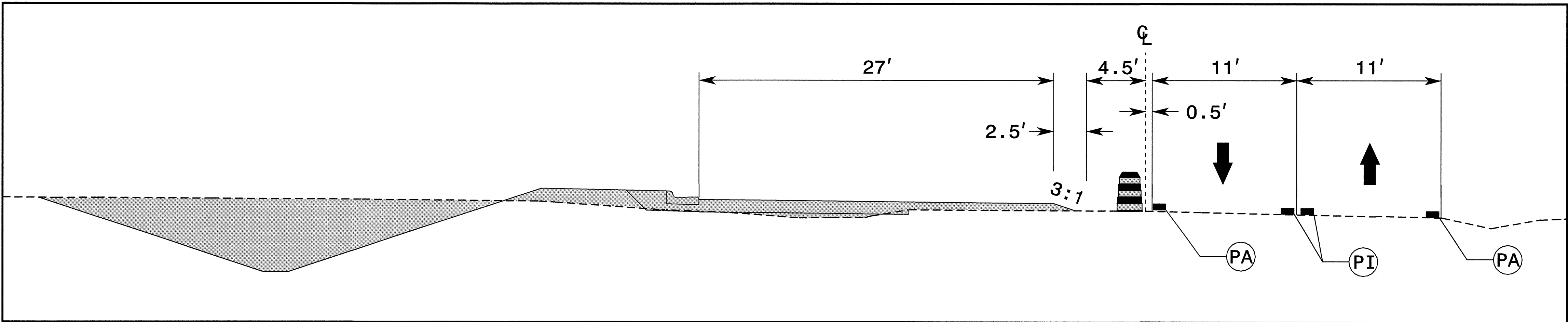
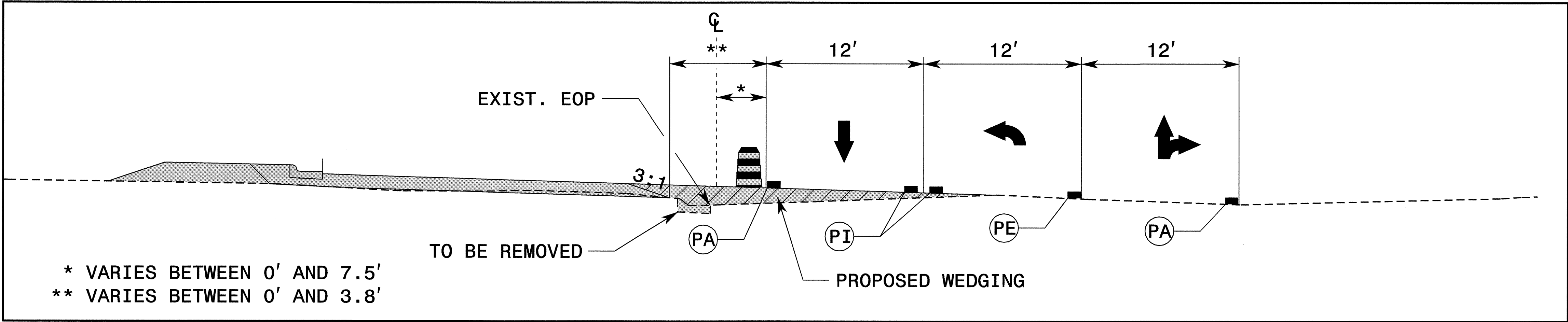
PHASE I, OVERVIEW 4

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 DESIGN BY: RMG
 REVIEWED BY: JDK



REVISIONS

CADD FILE



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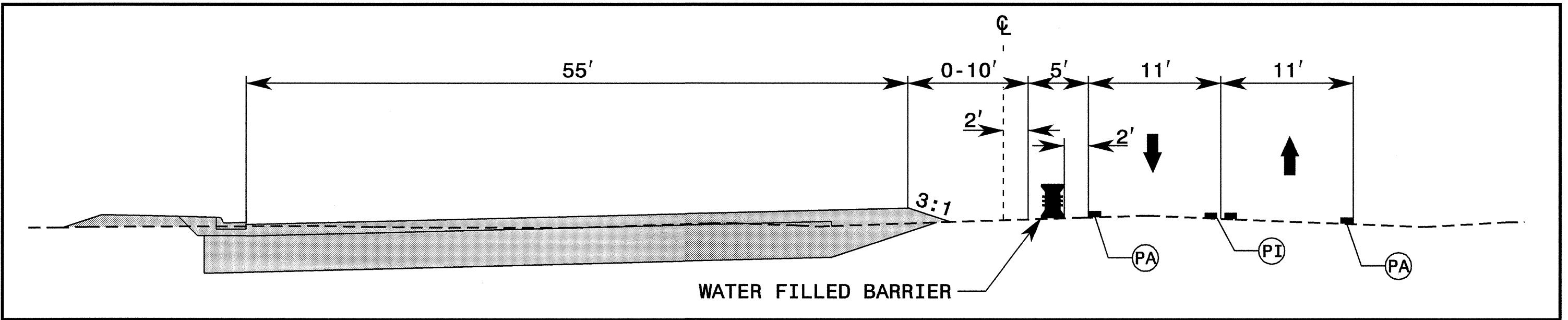
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SEAL

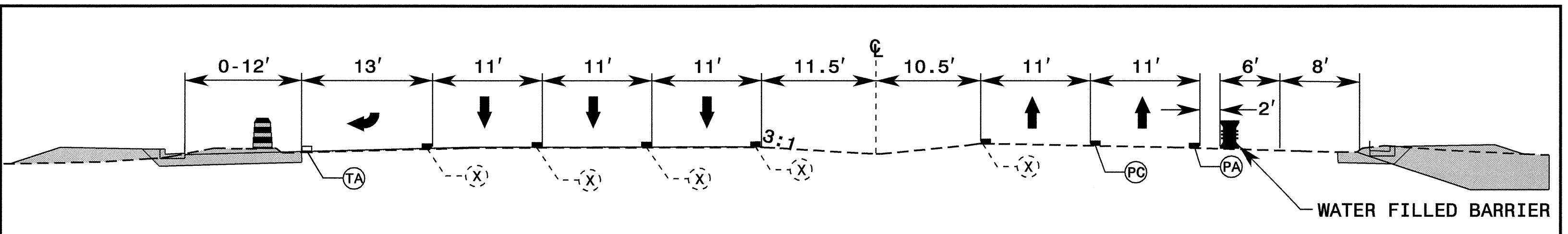
SECTIONS D-D' & K-K'

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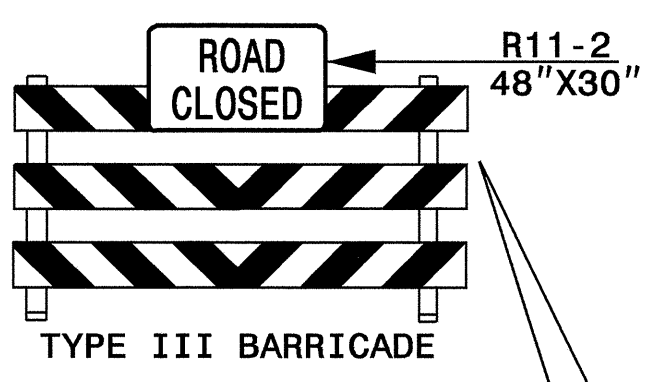
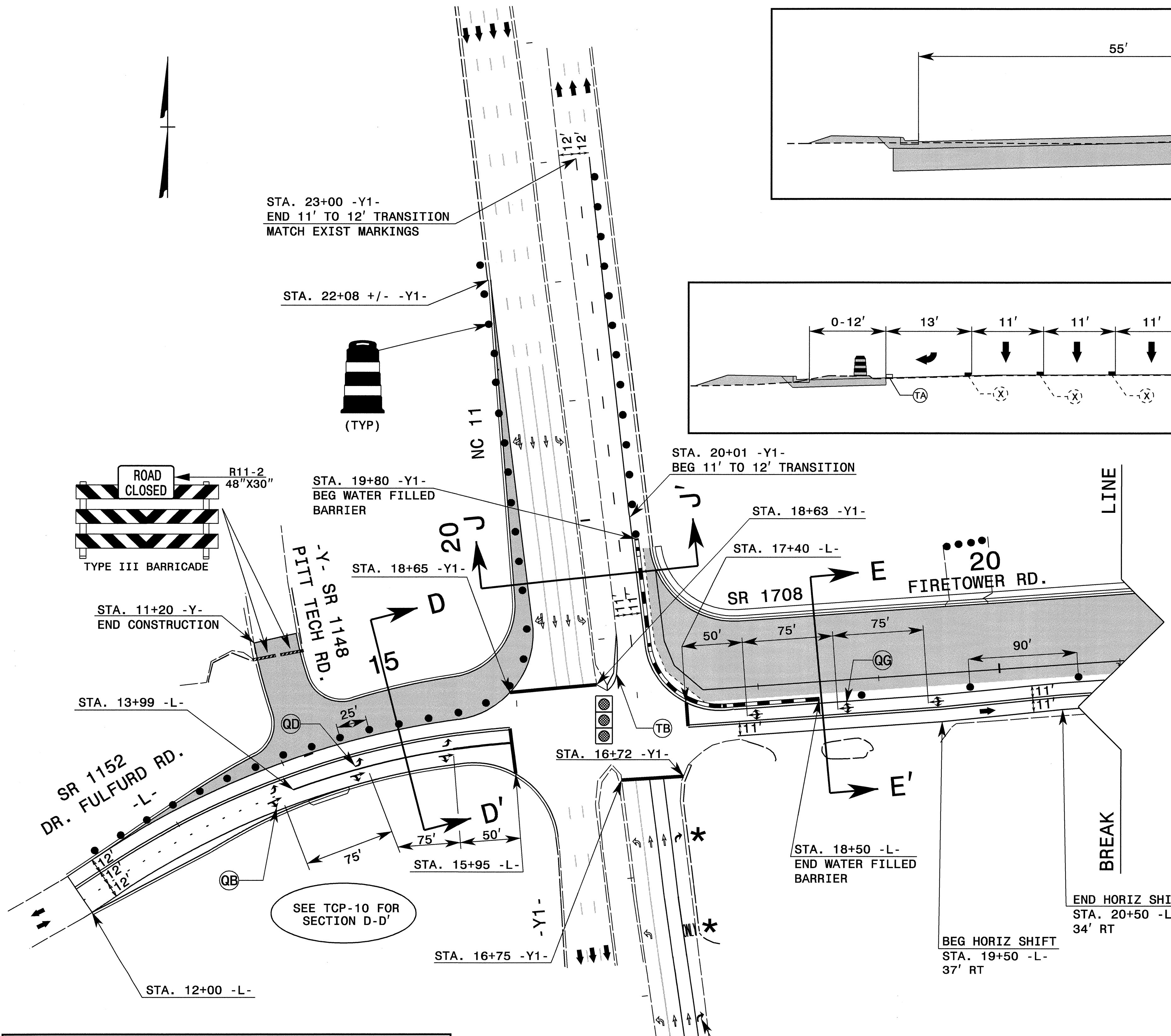
CADD FILE



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



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



STA. 11+20 -Y-
END CONSTRUCTION

STA. 13+99 -L-

SR 1152
DR. FULFURD RD.
-L-

STA. 12+00 -L-

SEE TCP-10 FOR
SECTION D-D'

STA. 15+95 -L-

STA. 16+75 -Y1-

STA. 16+72 -Y1-

STA. 18+50 -L-
END WATER FILLED
BARRIER

BEG HORIZ SHIFT
STA. 19+50 -L-
37' RT

END HORIZ SHIFT
STA. 20+50 -L-
34' RT

(SEE SHEET TCP-12)

* 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.

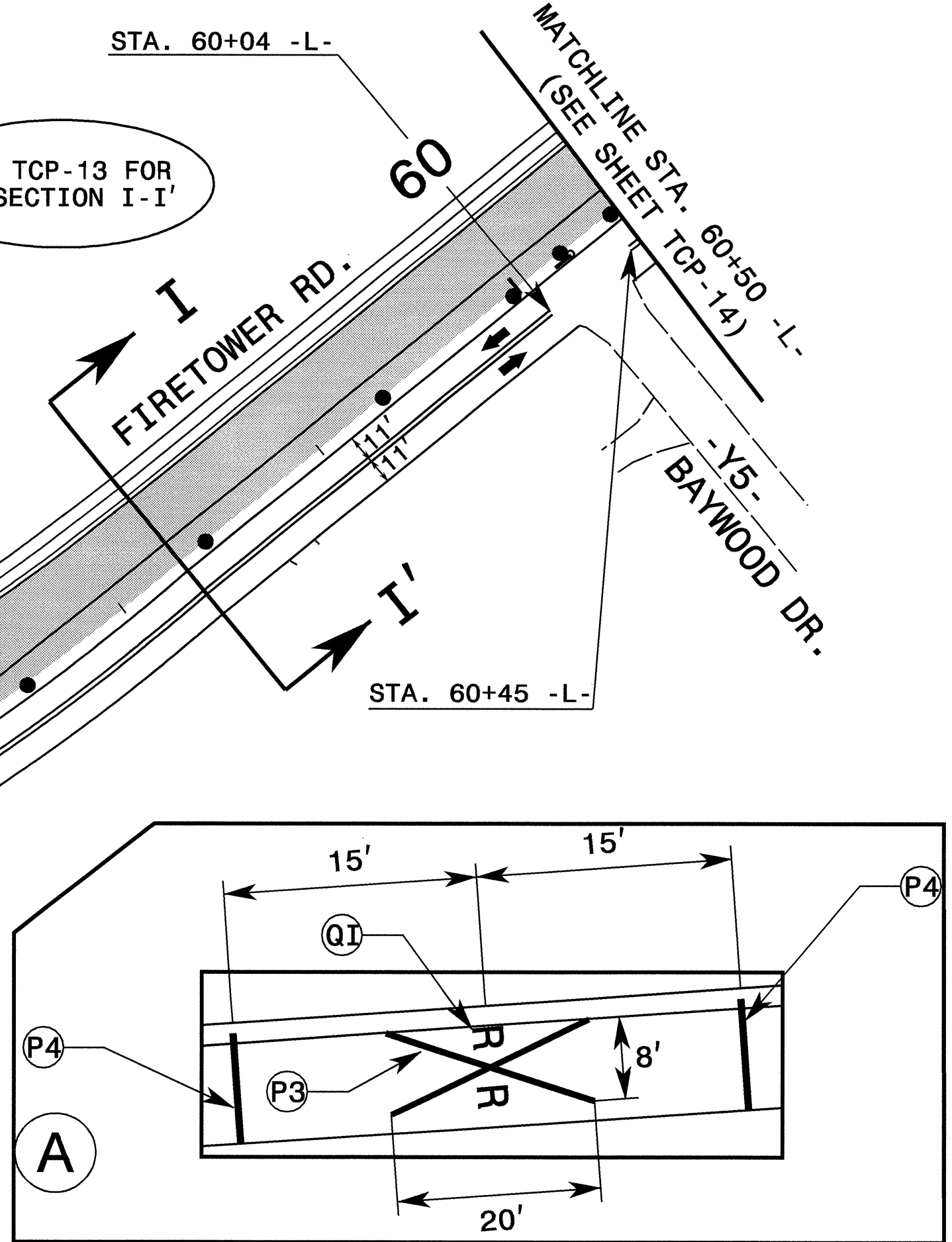
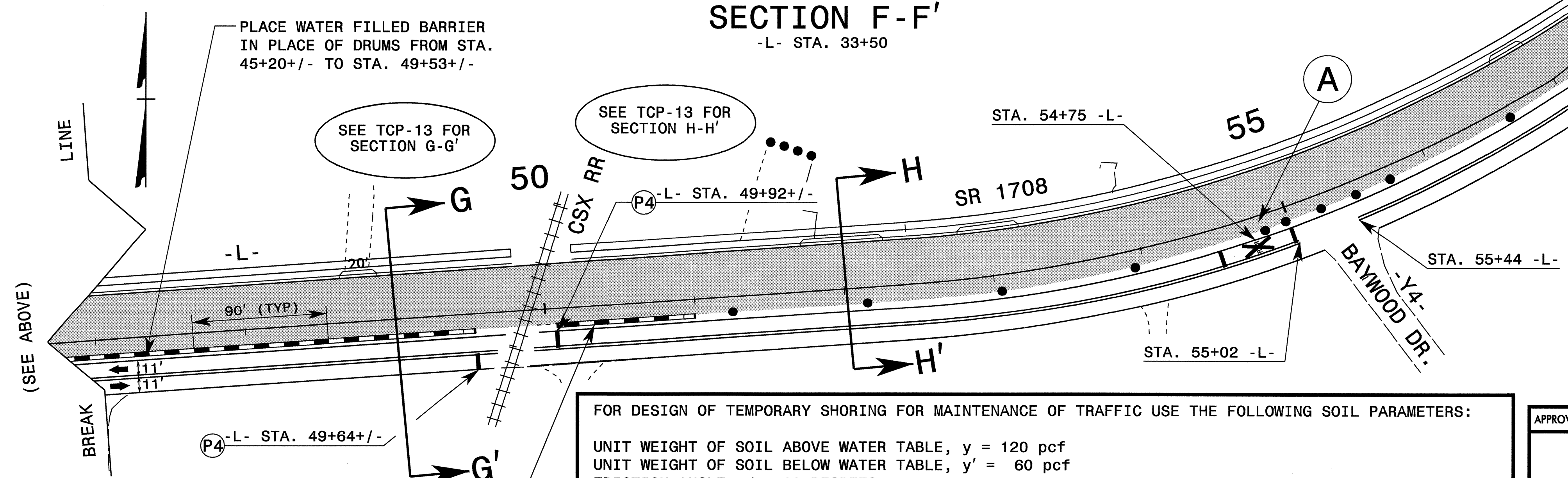
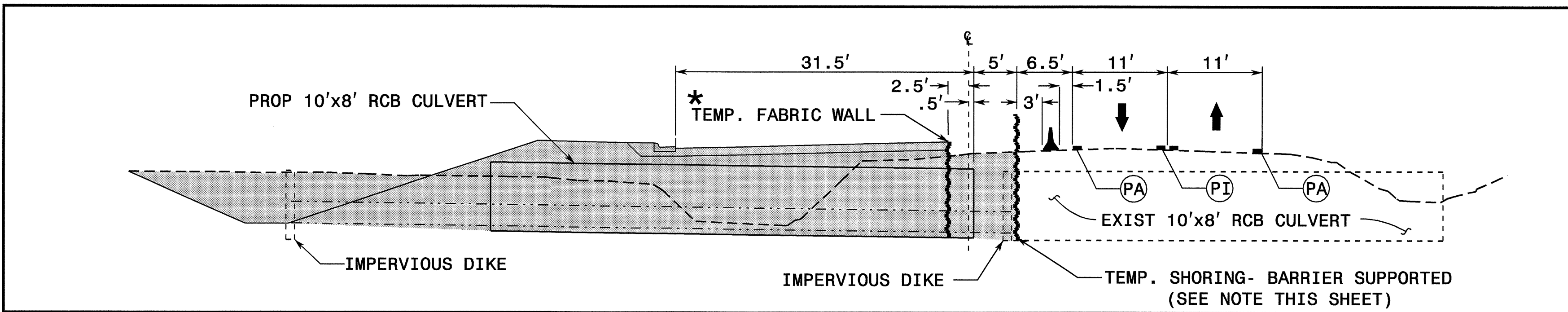
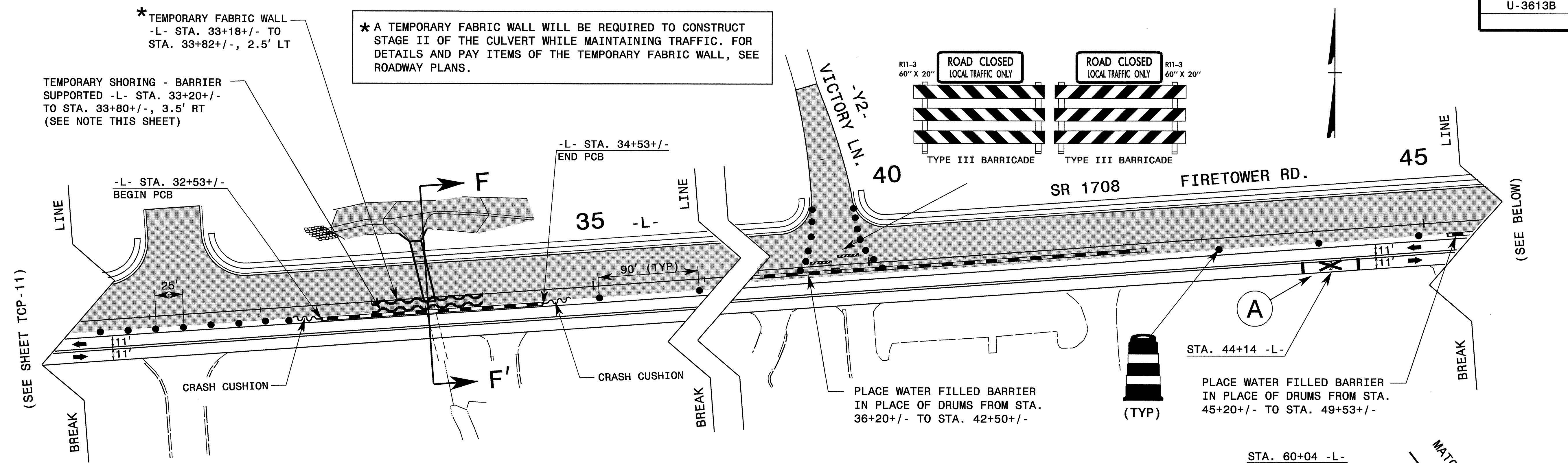
(X) EXISTING MARKINGS

APPROVED: *Jessica D. Kuse* DATE: 3/30/09



PHASE I DETAIL			REVISIONS	
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DESIGN BY:	RMG			
REVIEWED BY:	JDK			

30-MAR-2006 10:50
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 rmgr 611 AT: WZTC2229



FOR DESIGN OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC USE THE FOLLOWING SOIL PARAMETERS:

UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ pcf

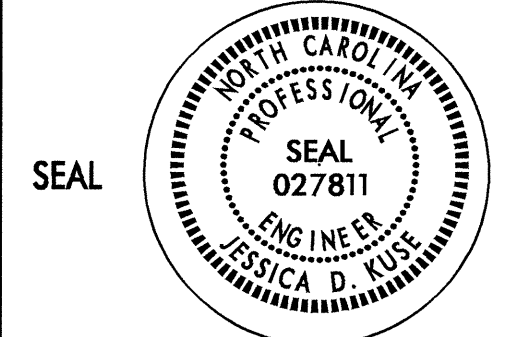
UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma' = 60$ pcf

FRICTION ANGLE, $\phi = 30$ DEGREES

COHESION, $c = 0$ psf"

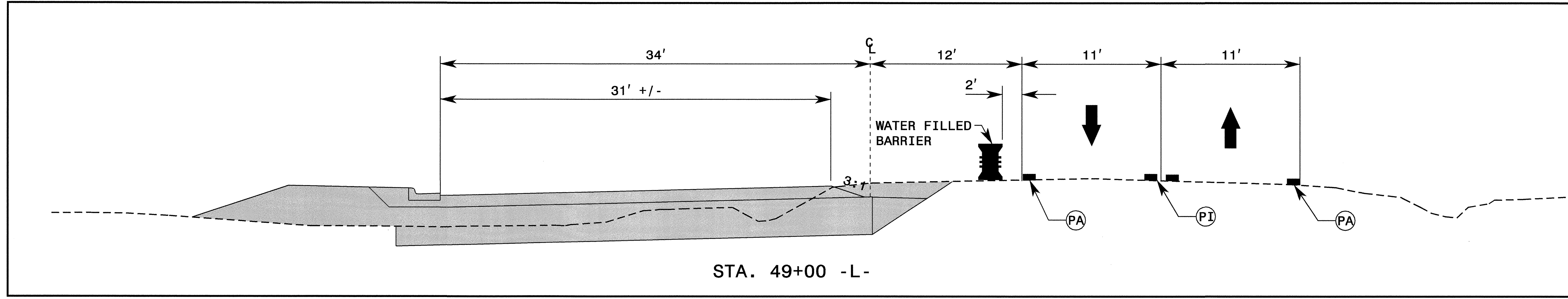
DO NOT USE STANDARD SHORING DESIGN FROM -L- STA. 33+20 TO -L- STA. 33+80, 3.5 FEET RT OF THE CENTERLINE. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A SHORING DESIGN FOR THIS LOCATION.

APPROVED: *Jessica Kuse* DATE: 3/30/08

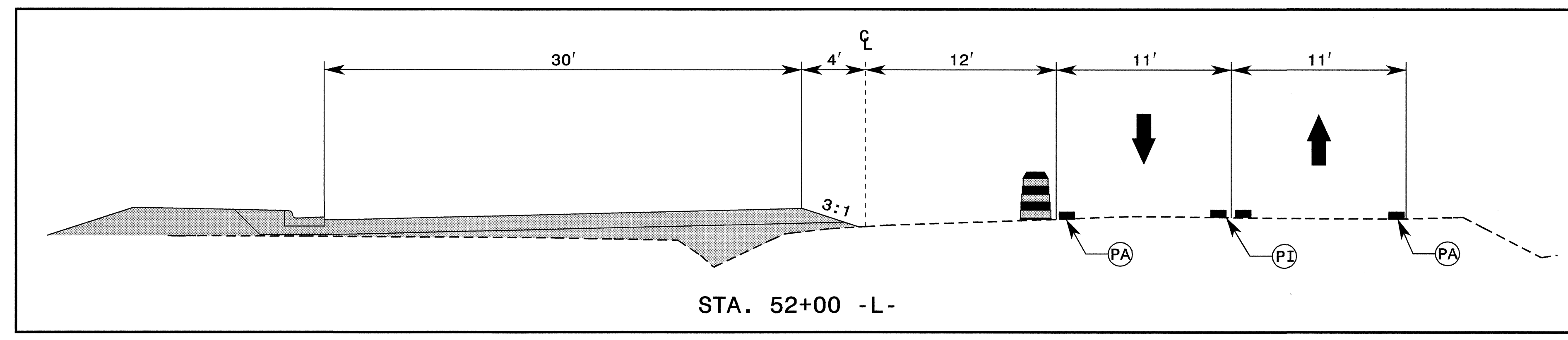


PHASE I DETAIL		REVISIONS	
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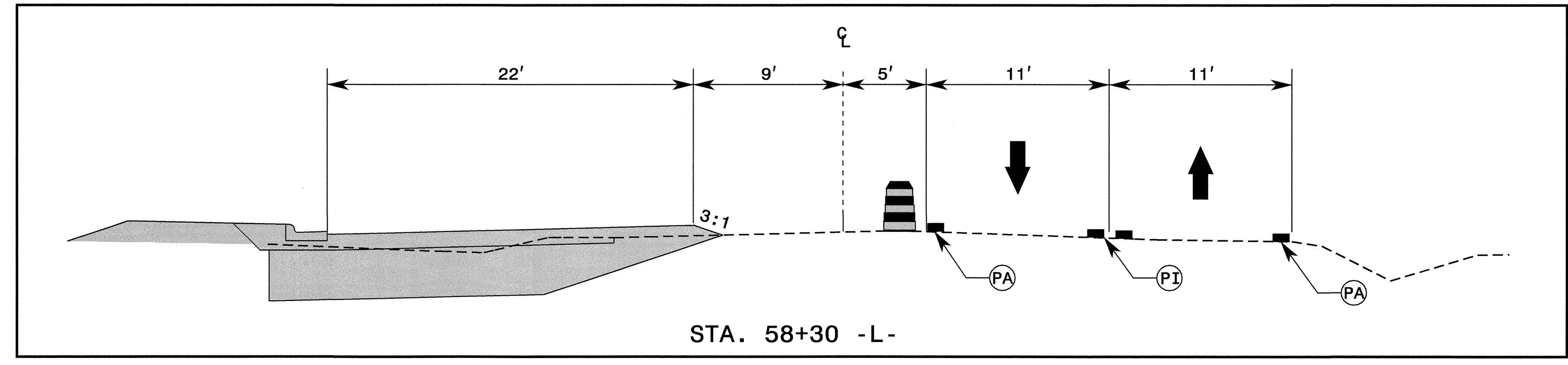
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SECTION G-G'



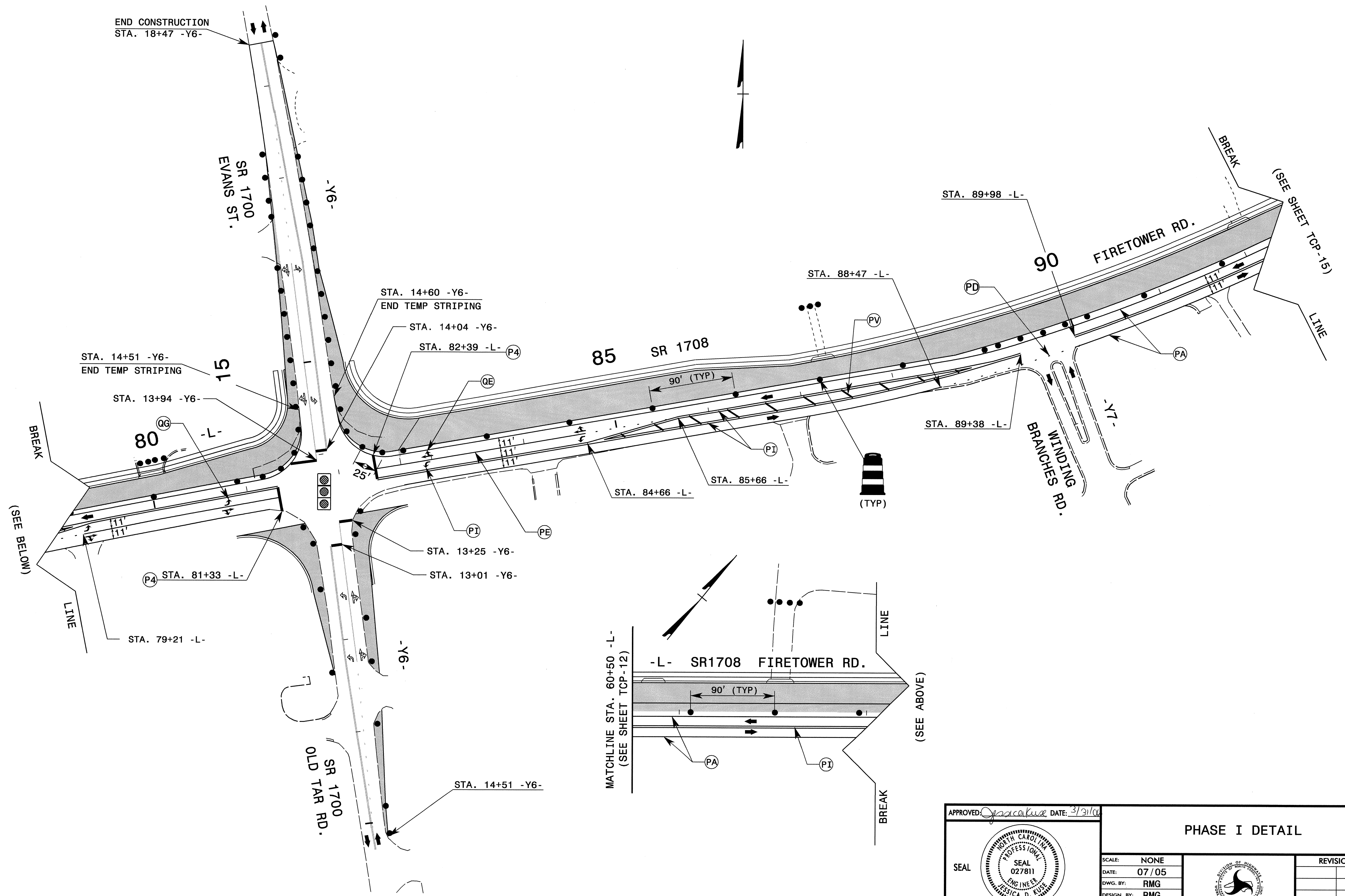
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SECTION I-I'

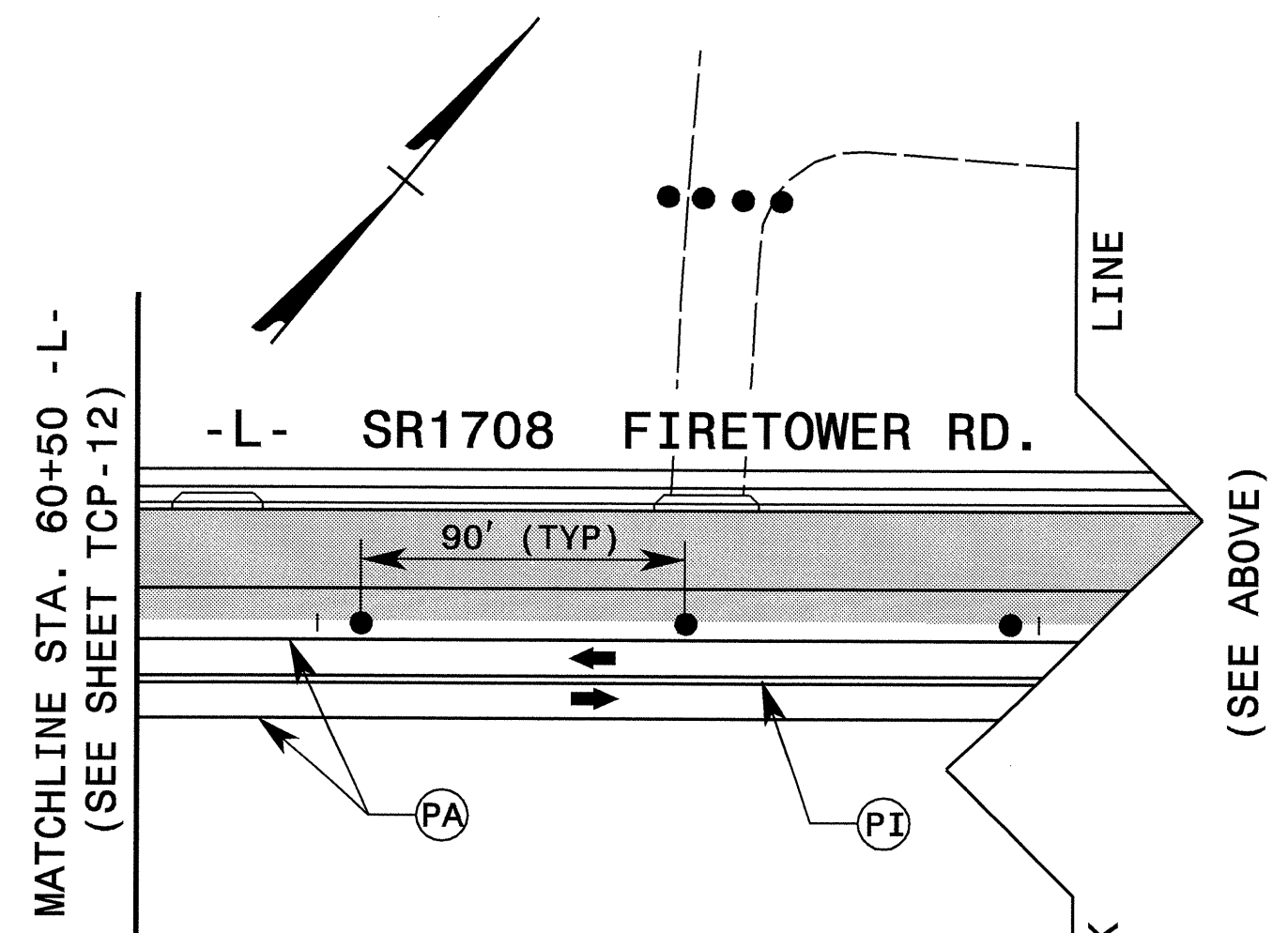
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 rmjg:etf AT WZTC2229

APPROVED: <i>JDK</i> DATE: 3/30/06	SECTIONS G-G', H-H', & I-I'										
	SCALE: NONE										
	DATE: 06/04		<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISIONS							
	REVISIONS										
DESIGN BY: RMG	<table border="1"> <tr> <td>CADD FILE</td> </tr> </table>	CADD FILE									
CADD FILE											
REVIEWED BY: JDK											



(SEE BELOW)

(SEE ABOVE)

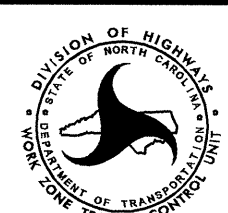


3-MAR-2006 09:53
 \\ets-cct0303\1561388\traffic\trafficcontrol\tcp\phase\tcp\3613b\trc_phi_detail2_tcp14.dgn
 rmgarratt AT WZTC2222g

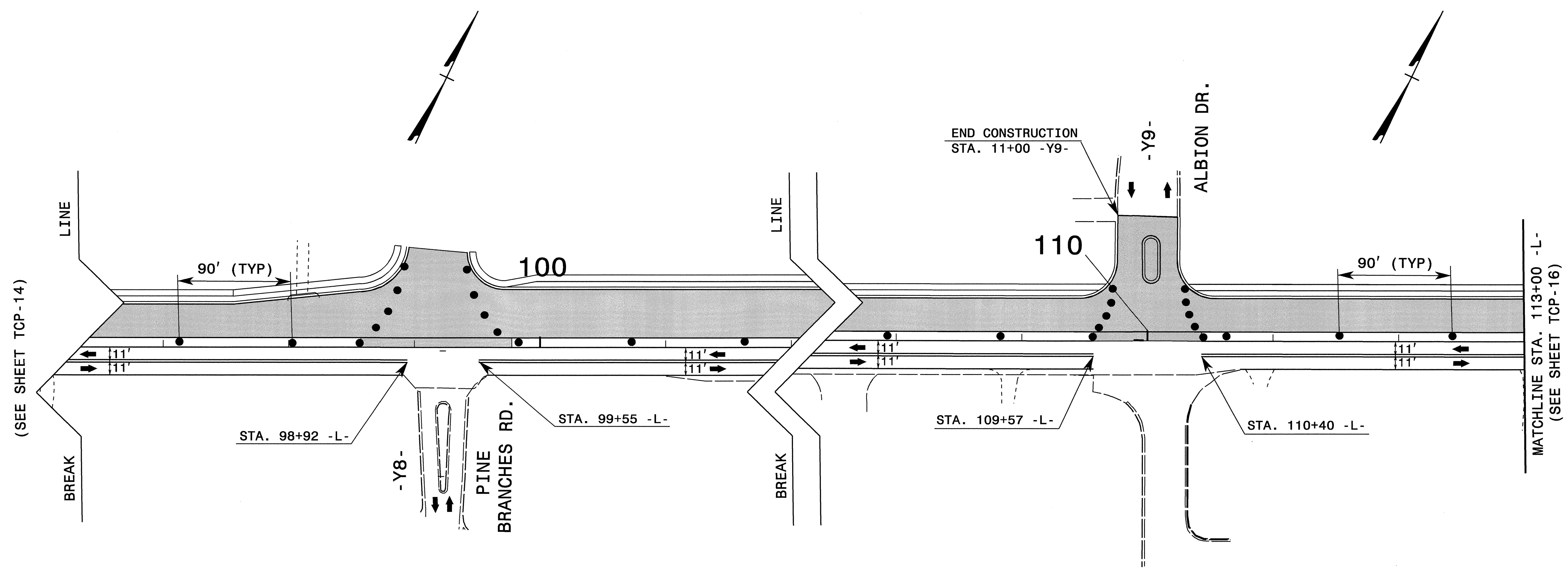
APPROVED: *Jessica D. Kuse* DATE: 3/3/06

SEAL

PHASE I DETAIL		REVISIONS
SCALE: NONE	DATE: 07/05	
DWG. BY: RMG	DESIGN BY: RMG	
REVIEWED BY: JDK		

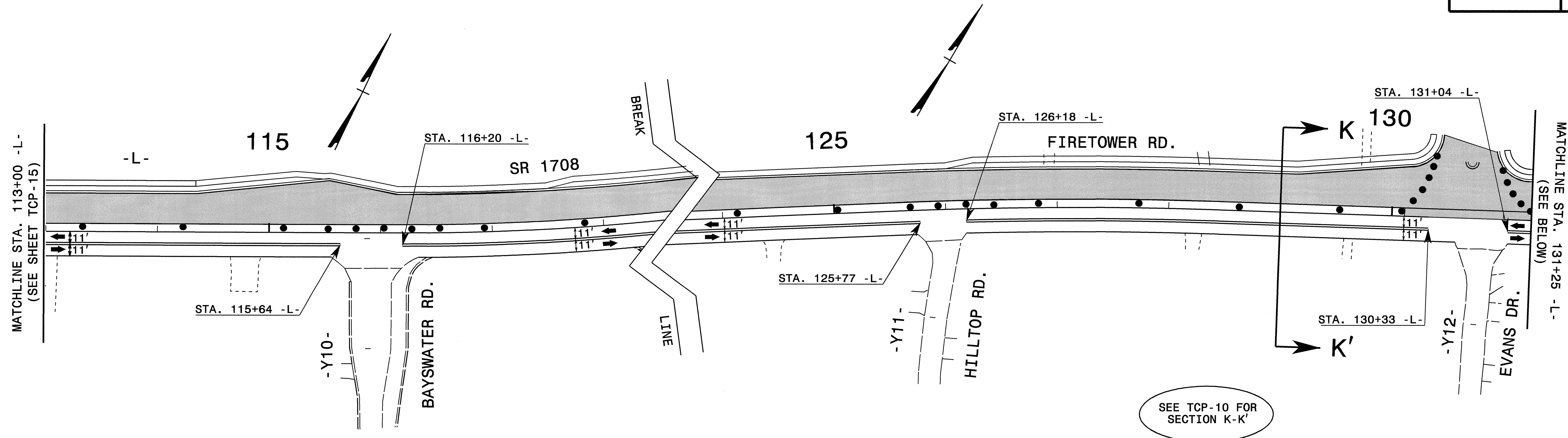


CADD FILE

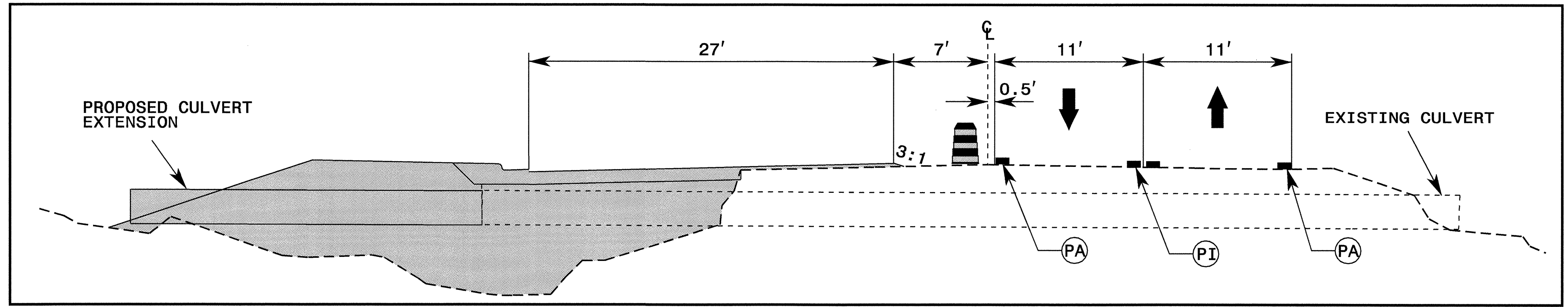
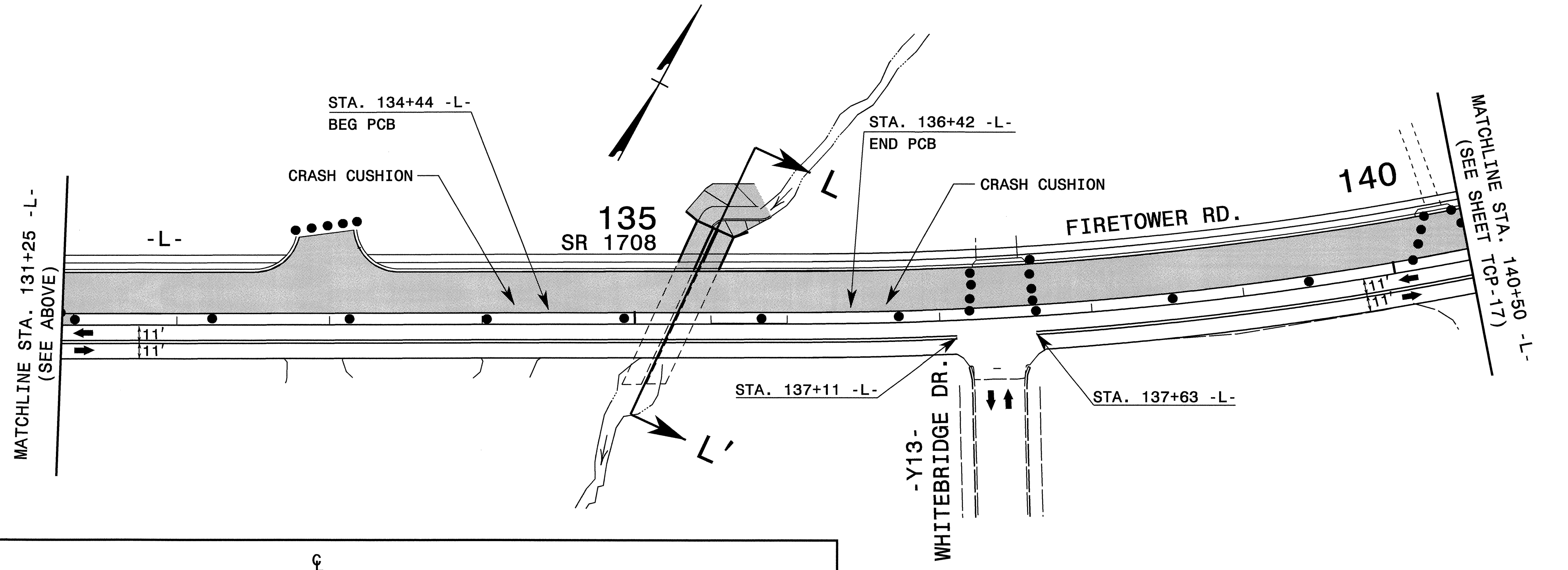


30-MAR-2006 10:53
 \srt-cct1503\U3613B\Traffic\top\Phase U3613b.tc.phi_detail2.tcp15.dgn
 \img\tr11 AT WZ1022229j

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

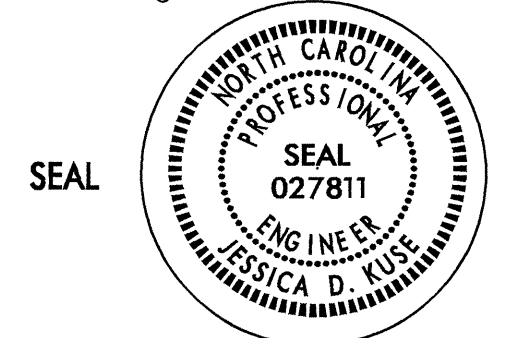


SEE TCP-10 FOR SECTION K-K'



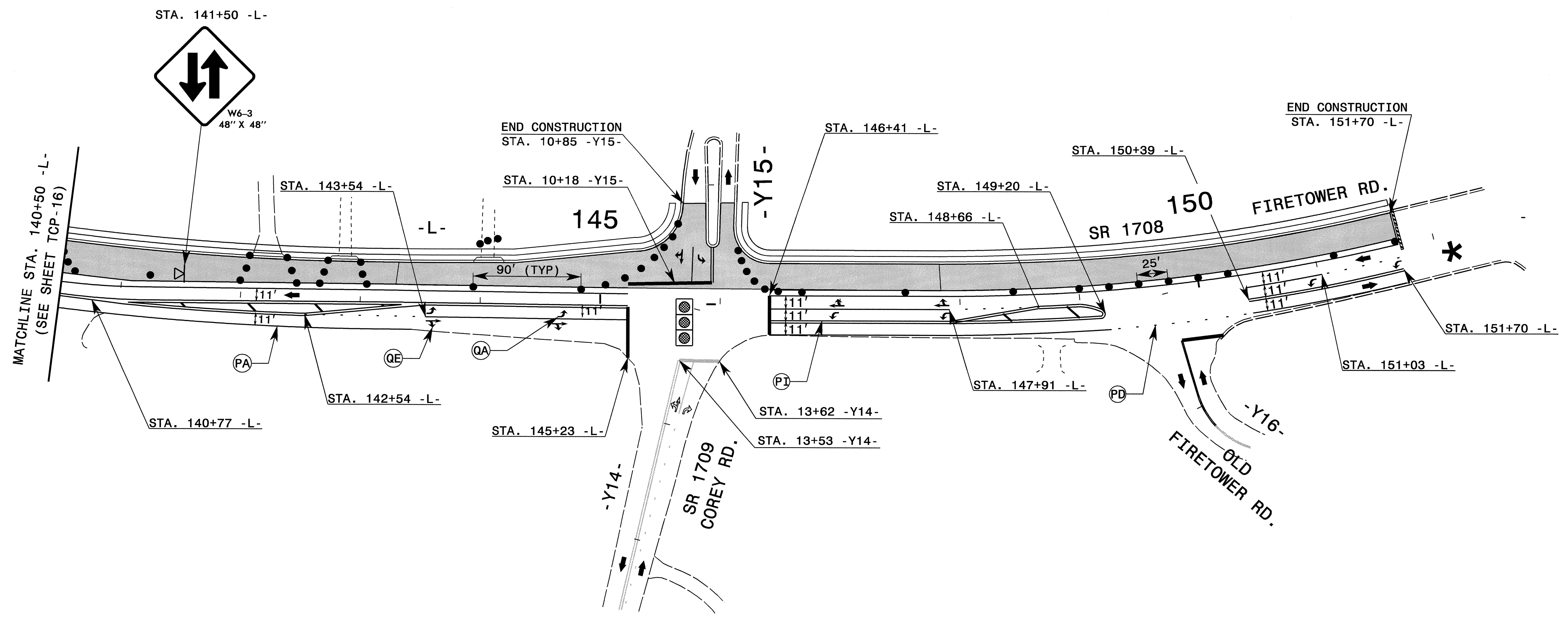
SECTION L-L'
-L- STA. 135+25+/-

APPROVED: *Jessica Kuse* DATE: 3/30/19



PHASE I DETAIL			REVISIONS	
SCALE:	NONE			
DATE:	07/05			
DWG. BY:	RMG			
DESIGN BY:	RMG			
REVIEWED BY:	JDK			

30-MAR-2006 10:53
 \\efs-cctfs03\135613B\Traffic\TrafficControl\top\Phase 1\U3613B_TC_PHL_De+all2_TCP16.dgn
 rmgarrett AT WZTC22291



* SEE TCP-18 FOR LANE CLOSURE OPERATION

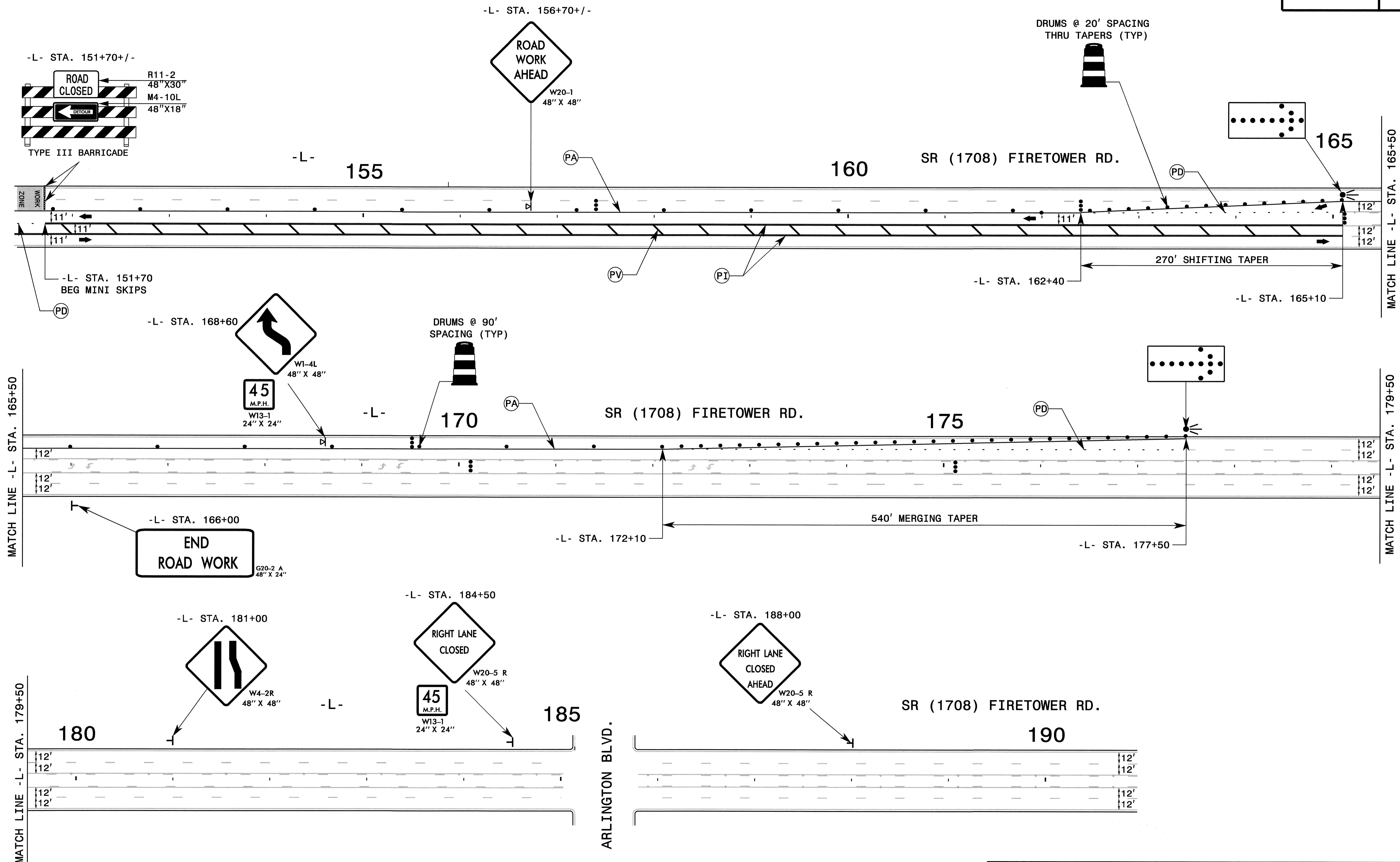
31-MAR-2006 08:57
 \\efs-corp05\j3613B8\Traffic\TrafficControl\top\phase 1\U3613B-TC-Phil_Detail2-TCP17.dgn
 rmgartett AT WZTC22291

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

SEAL

PHASE I DETAIL

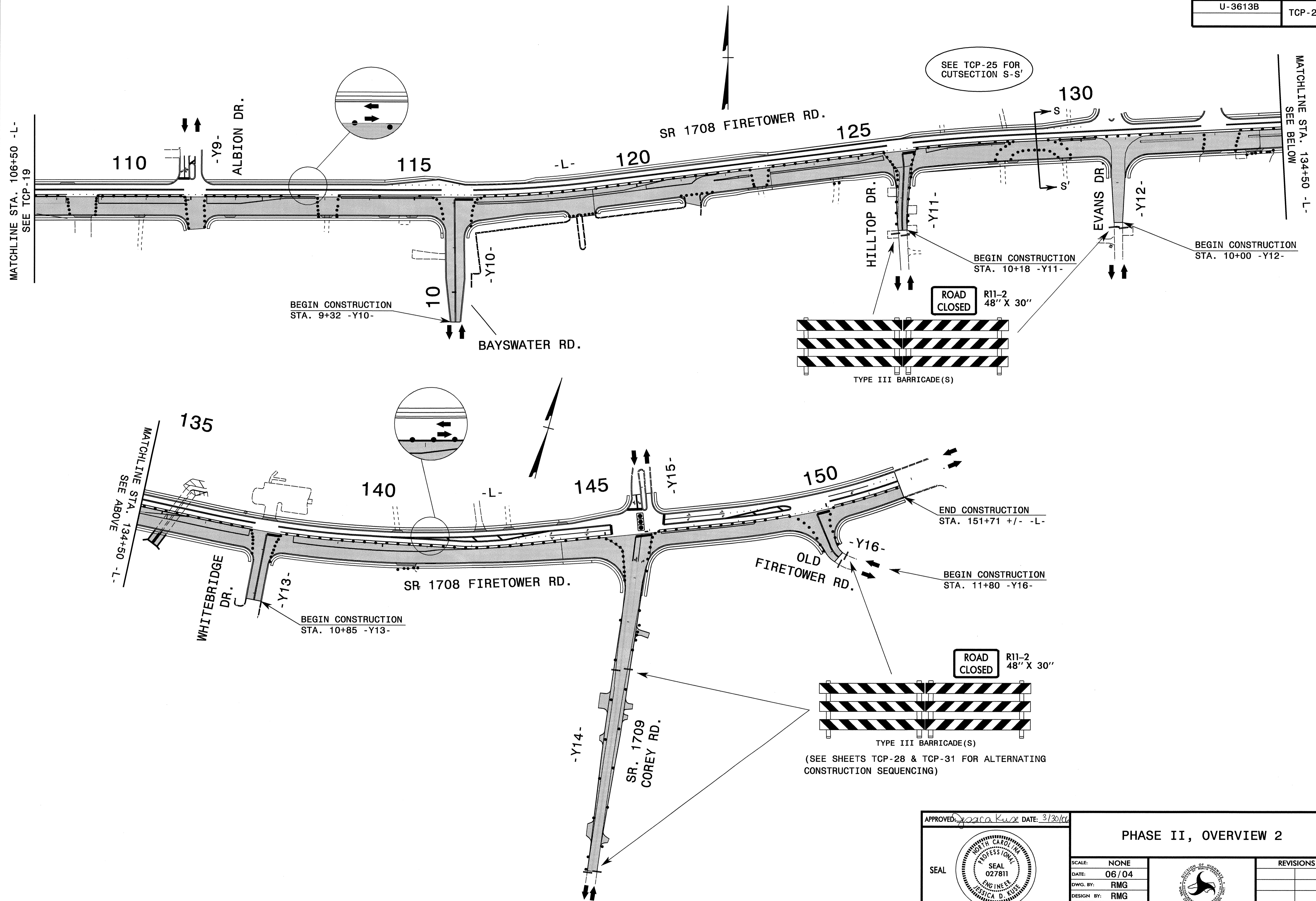
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REVISIONS										
DATE: 07 / 05										
DWG. BY: RMG										
DESIGN BY: RMG										
REVIEWED BY: JDK	CADD FILE									



30-MAR-2006 10:54
 \\gis-cdr\03\proj\3613B\trafficcontrol\top\Phase 1\U3613B_TC_PHL_Detail2_TCP18.dgn
 imgstr 611 AT WZTC2229

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

APPROVED: <i>Jessica D. Kline</i> DATE: 3/26/06	PHASE I DETAIL		
	SCALE: NONE		
	DATE: 12/05		REVISIONS
	DWG. BY: RMG		
	DESIGN BY: RMG		
REVIEWED BY: JDK			

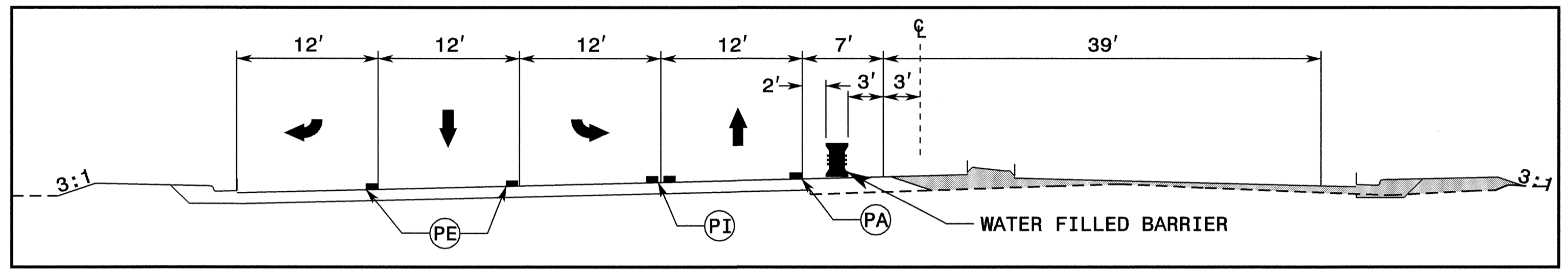
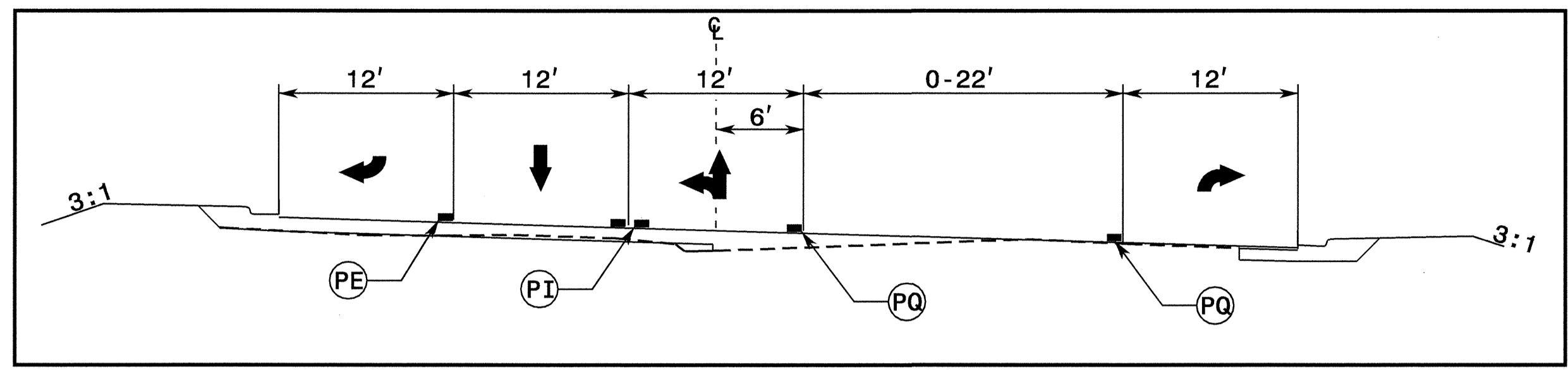
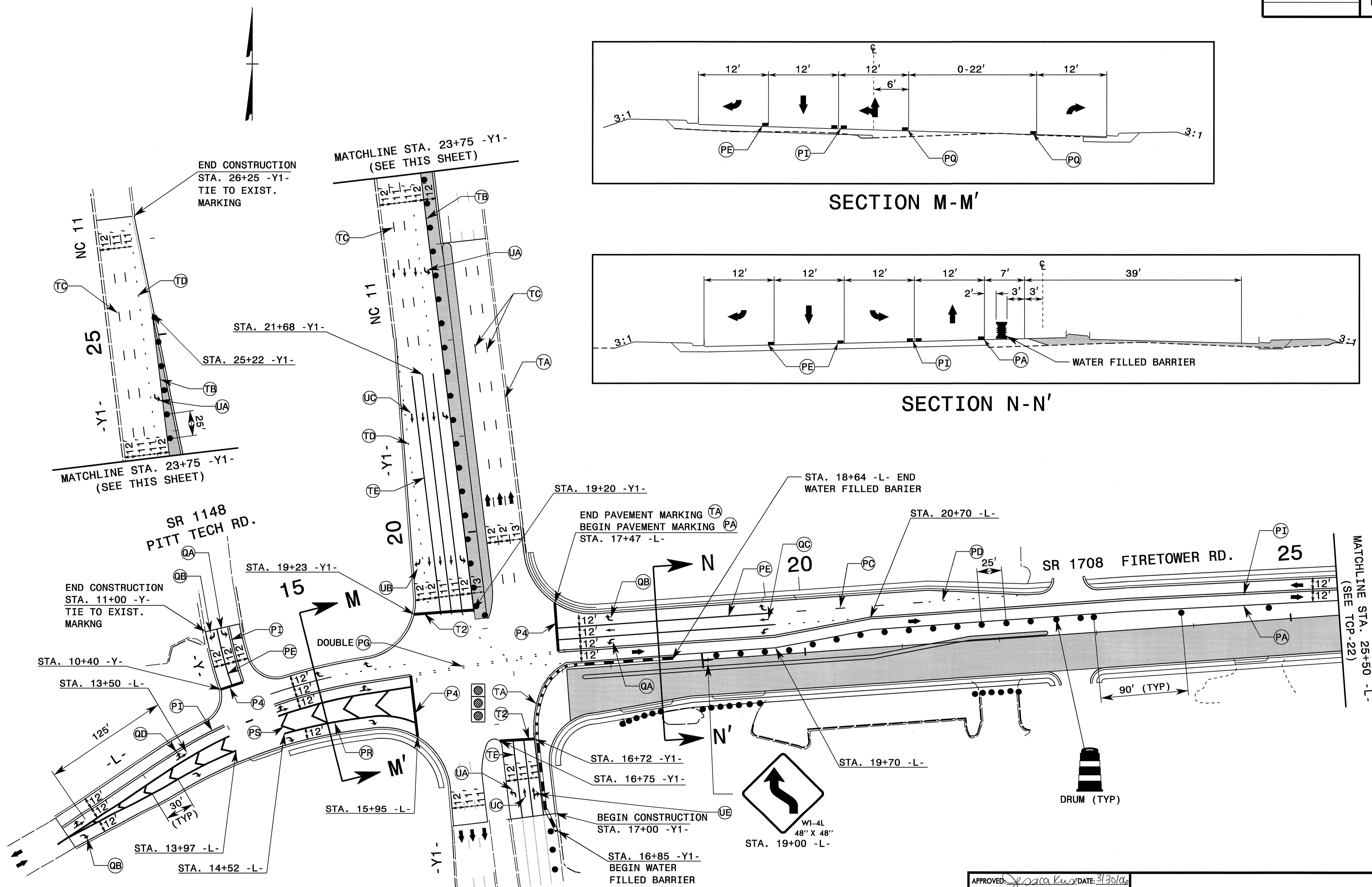


30-MAR-2006 10:55
 \keys-oc-f405\U3613B\TrafficControl\Tcp\Phase II\U3613B_TC_Phill_Detail_Orvw2_TCP20.dgn
 mngarrett AT MZTC2229

APPROVED: *Jessica Kust* DATE: 3/30/06

SEAL

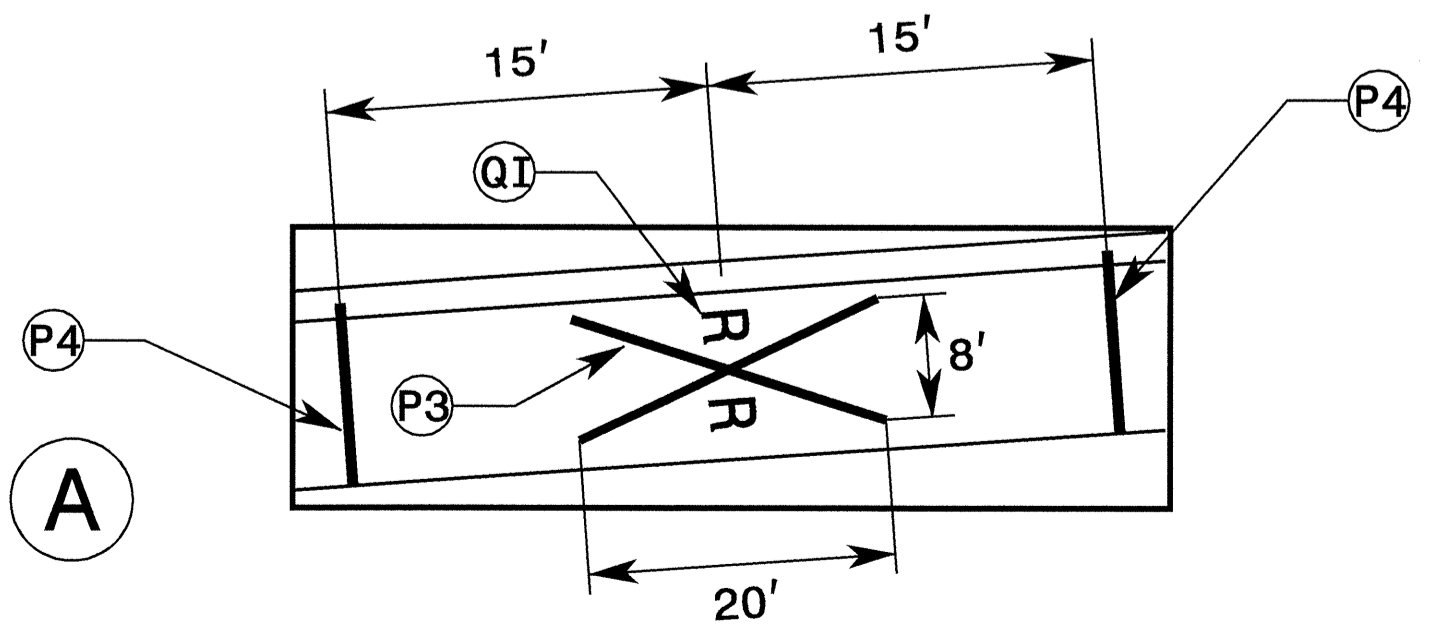
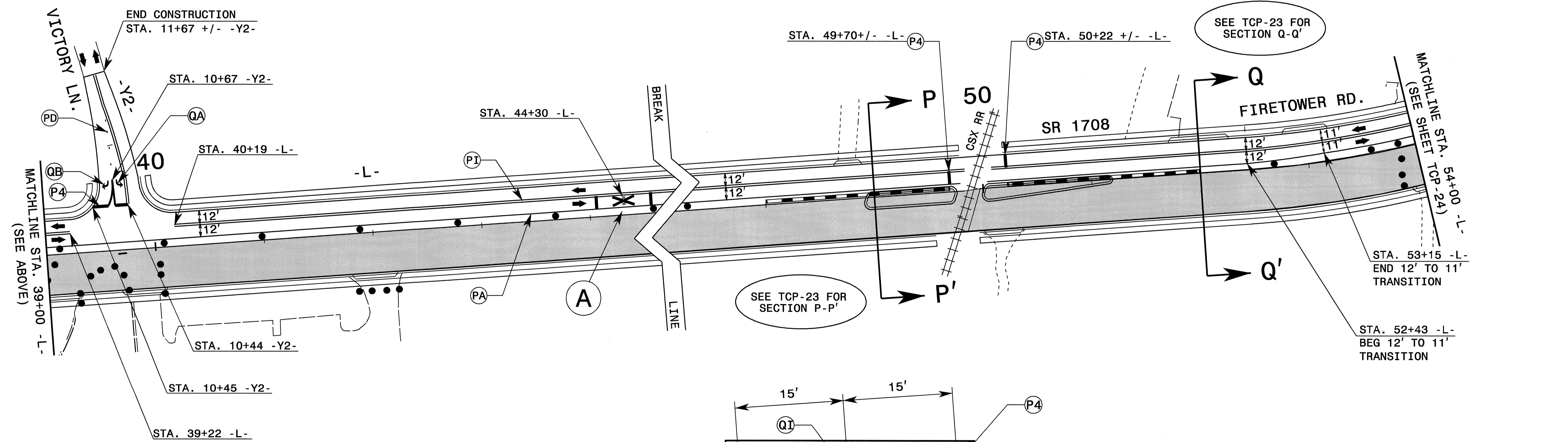
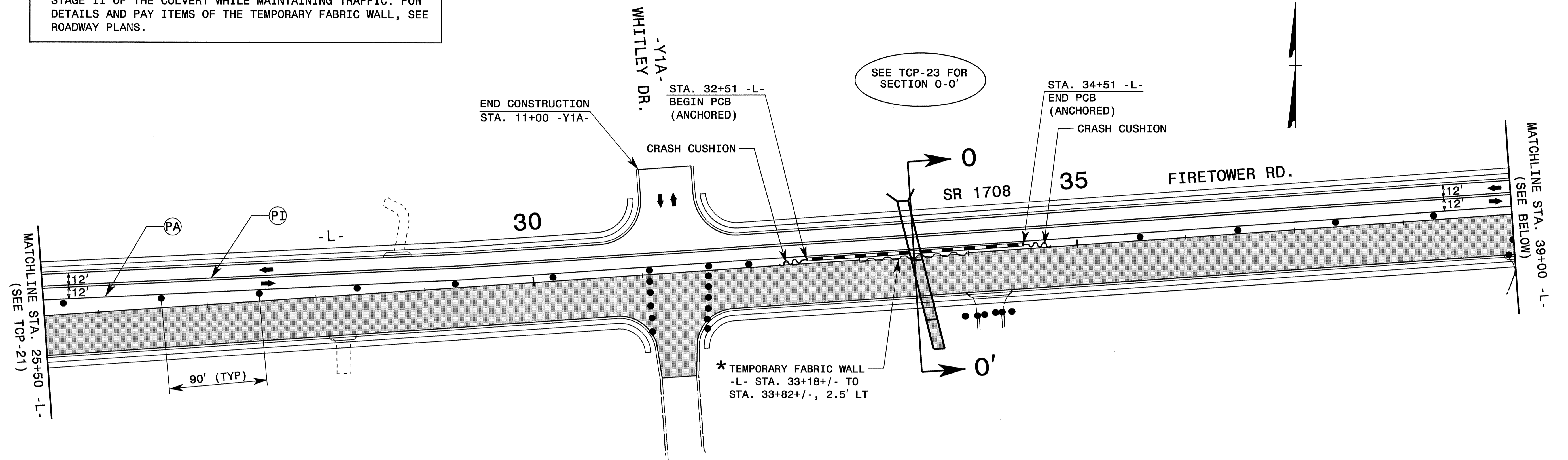
PHASE II, OVERVIEW 2									
SCALE: NONE									
DATE: 06/04									
DWG. BY: RMG									
DESIGN BY: RMG									
REVIEWED BY: JDK									
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS							
REVISIONS									



APPROVED: <i>Jessica Kuse</i> DATE: 3/3/06 	PHASE II DETAIL							
	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 10:56
 \\ets-cct503\U3613B\Traffic\TrafficControl\top\Phase II\U3613B_TC_Phil_Detail\TCP21.dgn
 rmgr:rmg AT WZ122229f

* A TEMPORARY FABRIC WALL WILL BE REQUIRED TO CONSTRUCT STAGE II OF THE CULVERT WHILE MAINTAINING TRAFFIC. FOR DETAILS AND PAY ITEMS OF THE TEMPORARY FABRIC WALL, SEE ROADWAY PLANS.

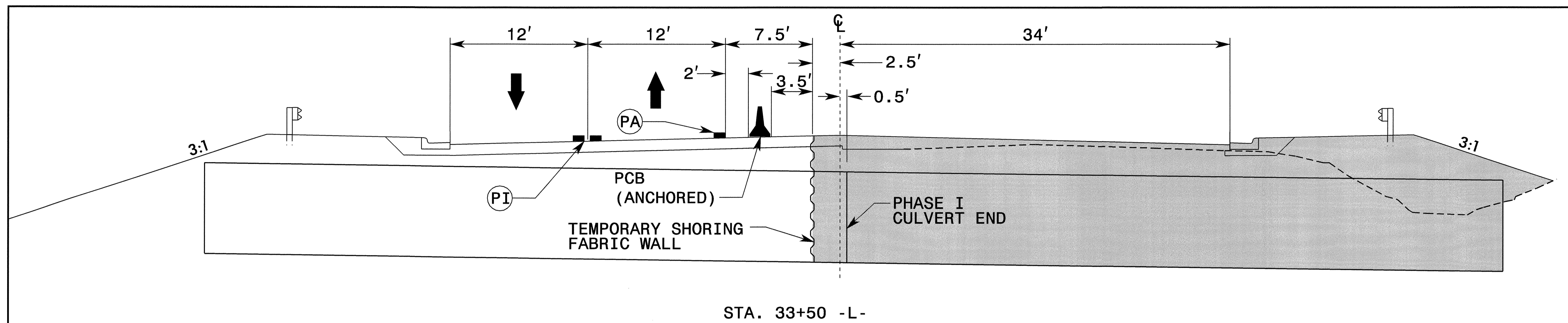


APPROVED: *Jessica K. Kuse* DATE: 3/30/06

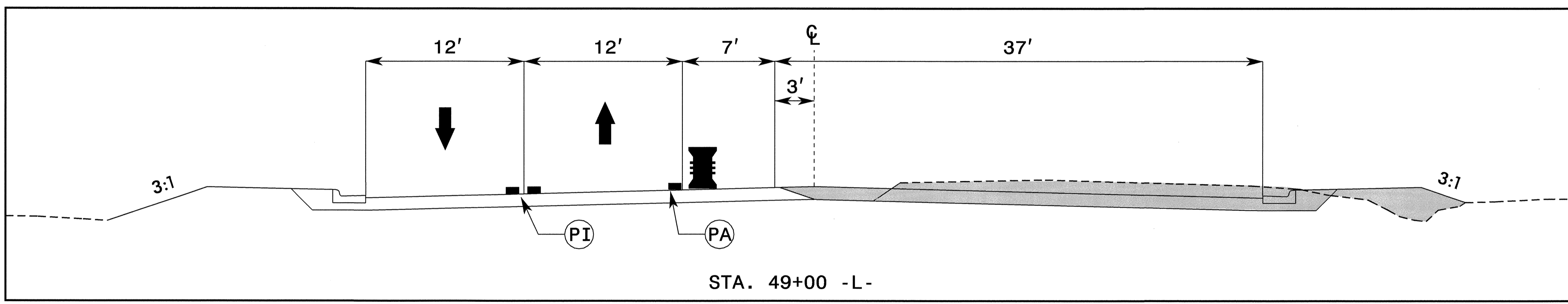
PHASE II DETAIL

SCALE: NONE			REVISIONS
DATE: 07/05			
DWG. BY: RMG			
DESIGN BY: RMG			
REVIEWED BY: JDK			CADD FILE

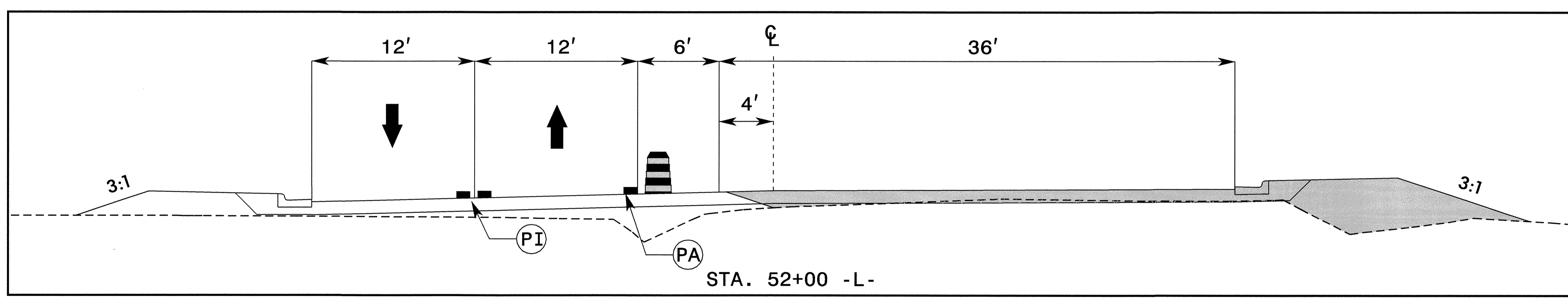
30-MAR-2006 10:56
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 imgart.rpt AT: MZTC22251



SECTION 0-0'



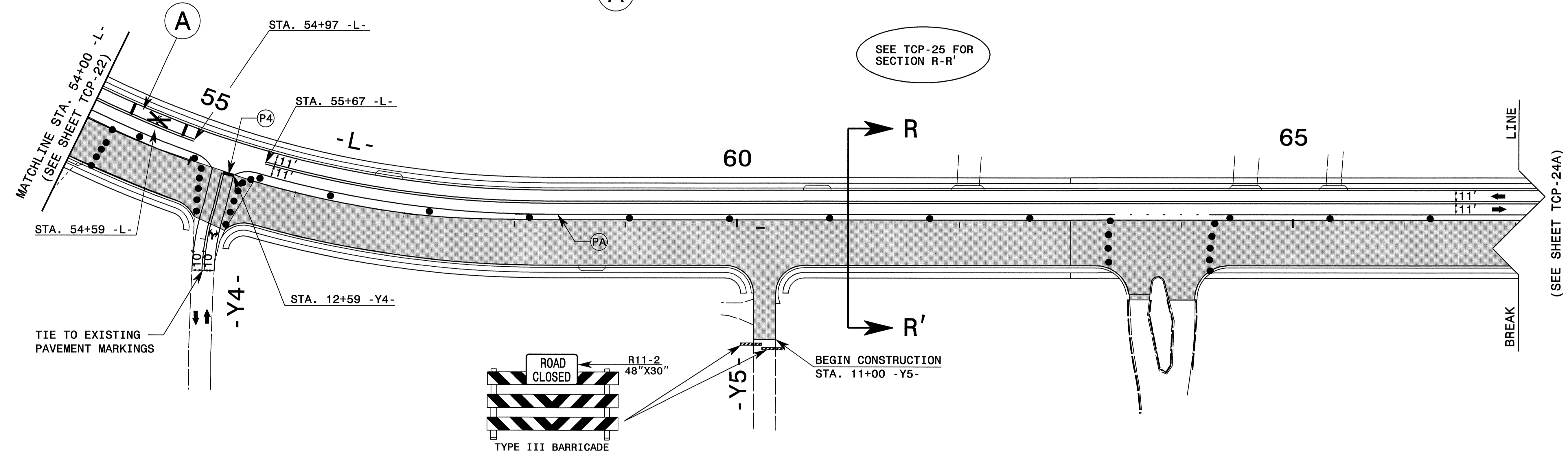
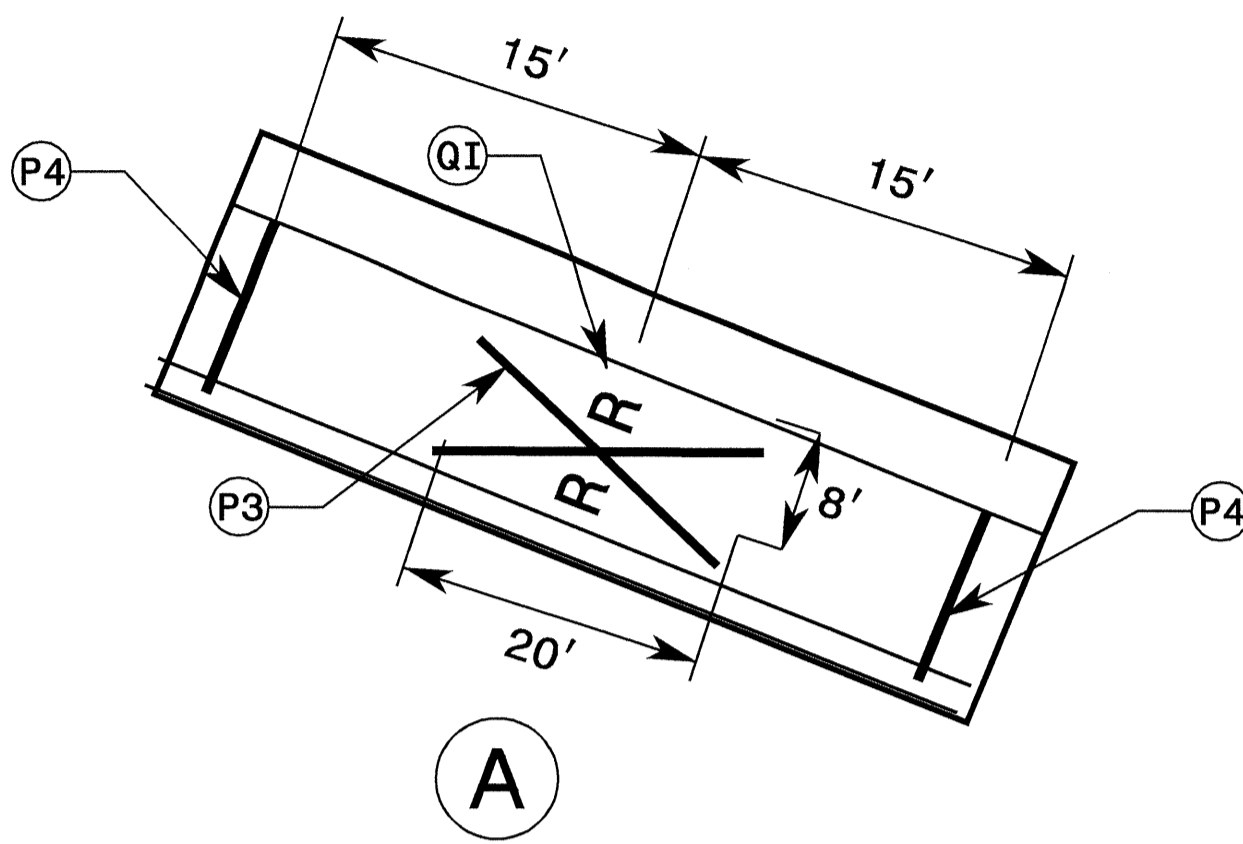
SECTION P-P'



SECTION Q-Q'

30-MAR-2006 10:57
 \\s:\cct\1503\U3613B\tr\office\control\top\XSECTIONS\Phase II\U3613B.L.L.xpl_Phil_Detail_TC_TCP23.xpl.dgn
 L:\mgtr\11 AT WZ 10222291

APPROVED: <i>Jessica D. Rusk</i> DATE: 3/26/06	PHASE II DETAIL	
SEAL 	SCALE: NONE	
	DATE: 06/04	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK	REVISIONS	

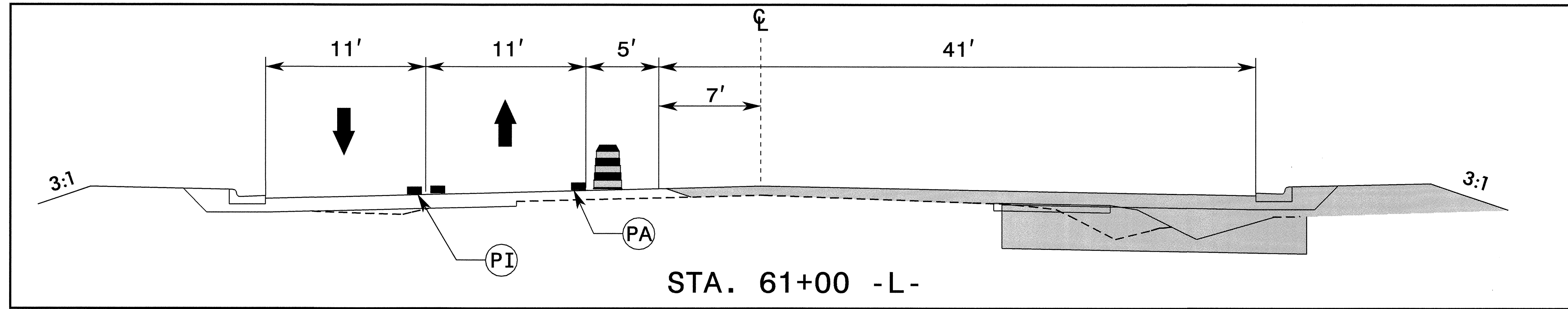


SEE TCP-25 FOR SECTION R-R'

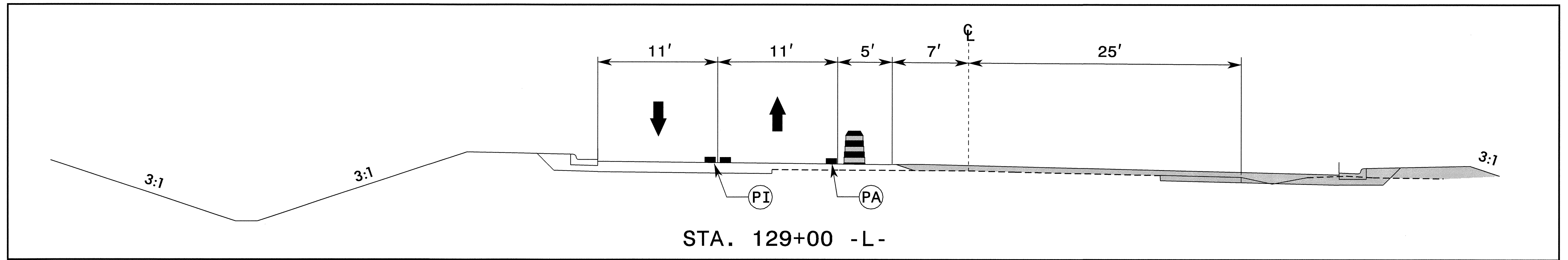
(SEE SHEET TCP-24A)

30-MAR-2006 10:57
 \bits\oct1505\U3613B\Traffic\tr\affico\tr\top\Phase II\U3613B_Tc_Phil_Detail_TCP24.dgn
 imgarrt11 AT 12/12/2229

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



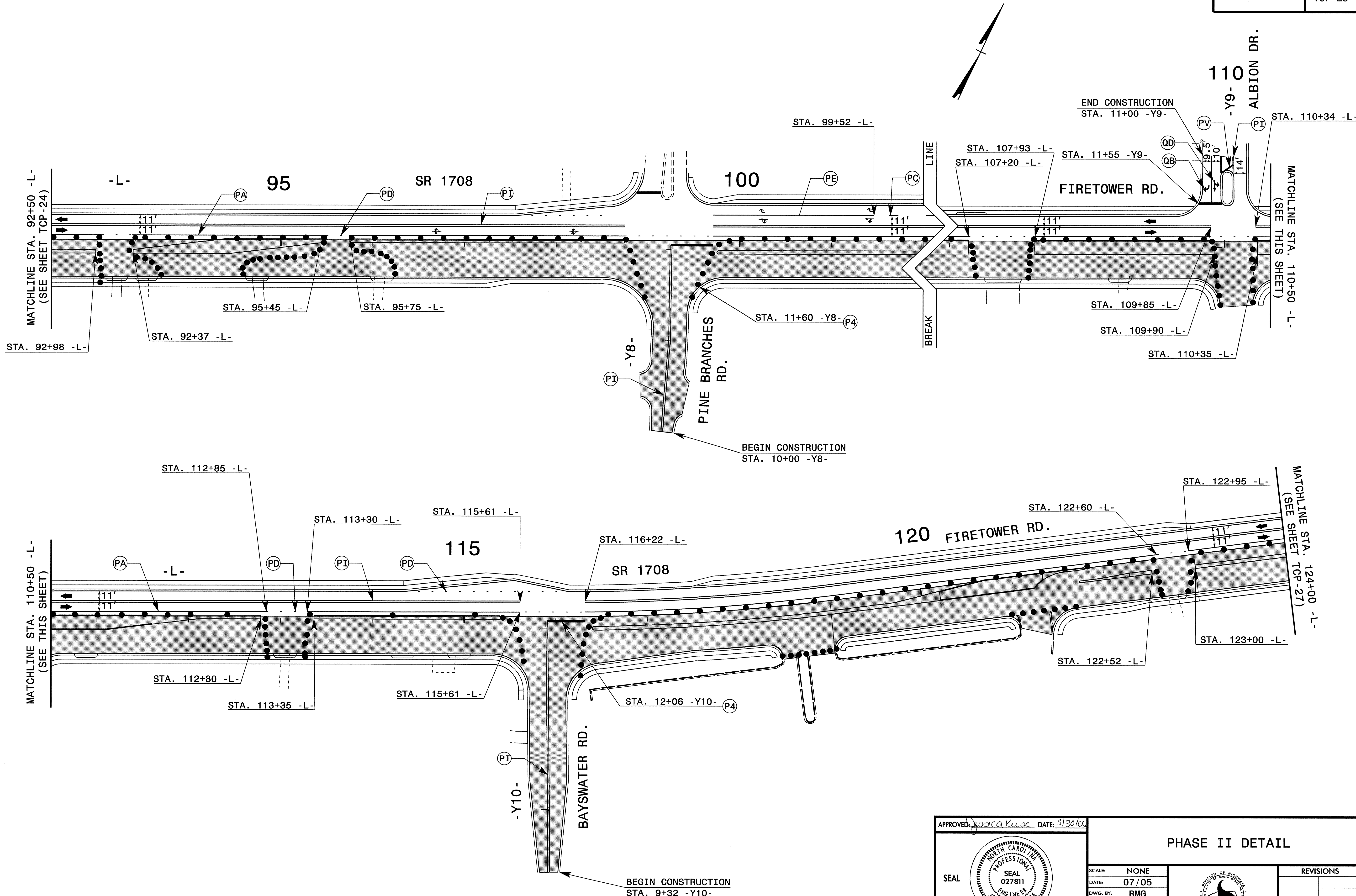
SECTION R-R'



SECTION S-S'

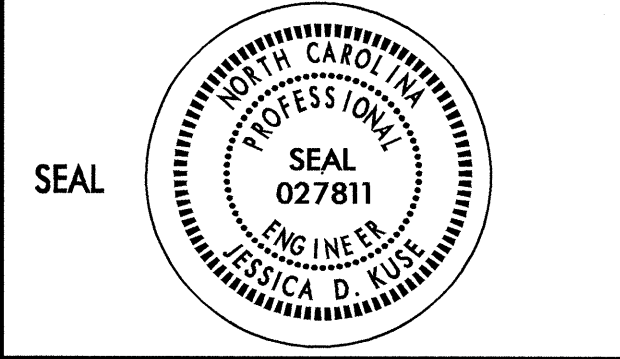
30-MAR-2006 10:59
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 mngd\p1\ AT: WZTC22291

APPROVED: <i>J. K. Kuster</i> DATE: 3/30/06	PHASE II DETAIL									
	SCALE: NONE									
	DATE: 06/04									
	DESIGN BY: RMG									
	REVIEWED BY: JDK									
		<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS							
REVISIONS										



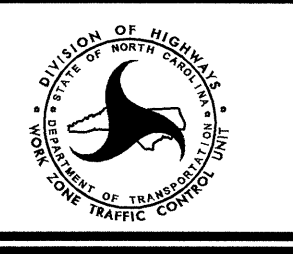
30-MAR-2006 10:04
 R:\GIS-oc1\503\AT\WZ\TC2229\Phase II\U3613B_TC_Phil_Detail\TCP26.dgn
 rmgar@11

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



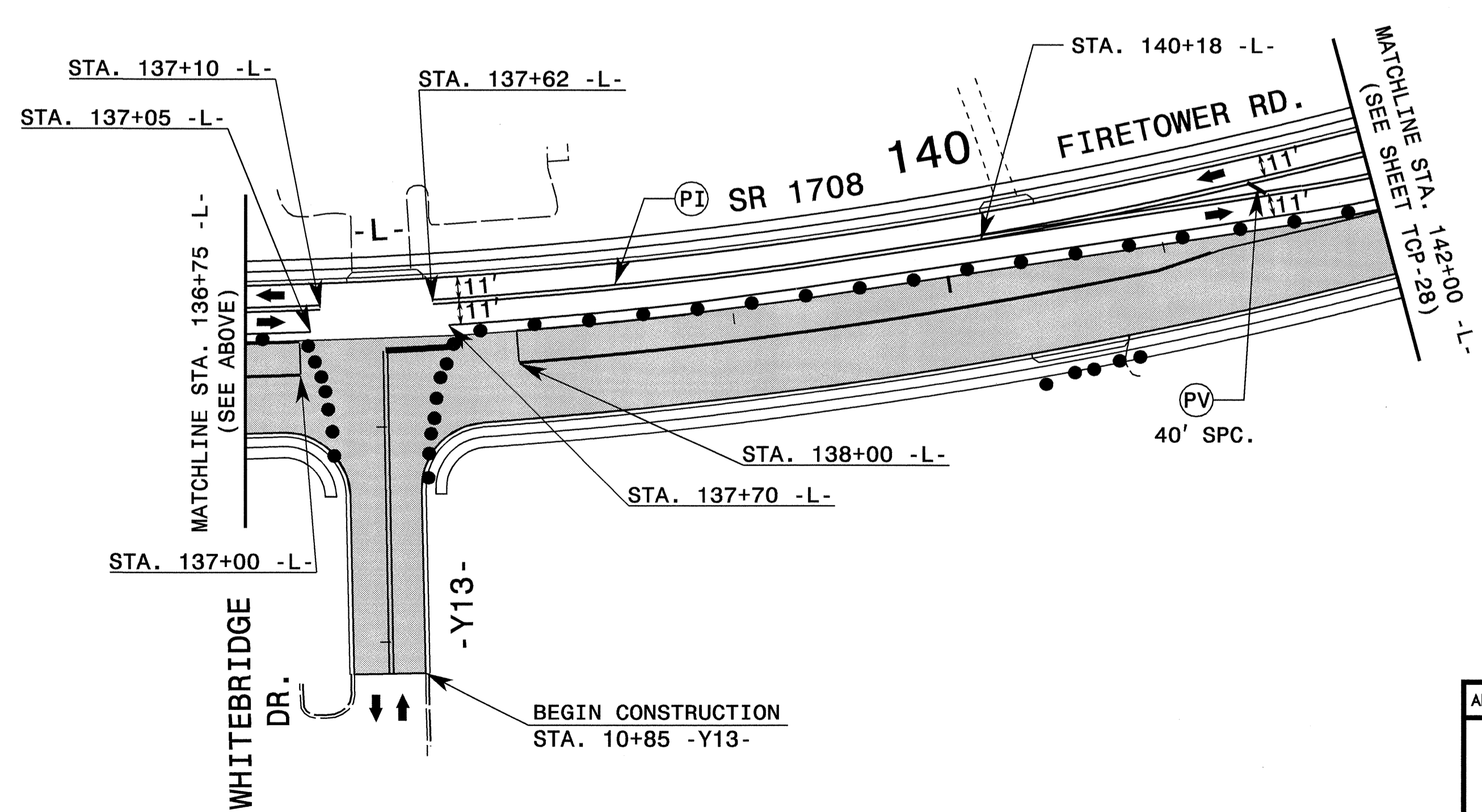
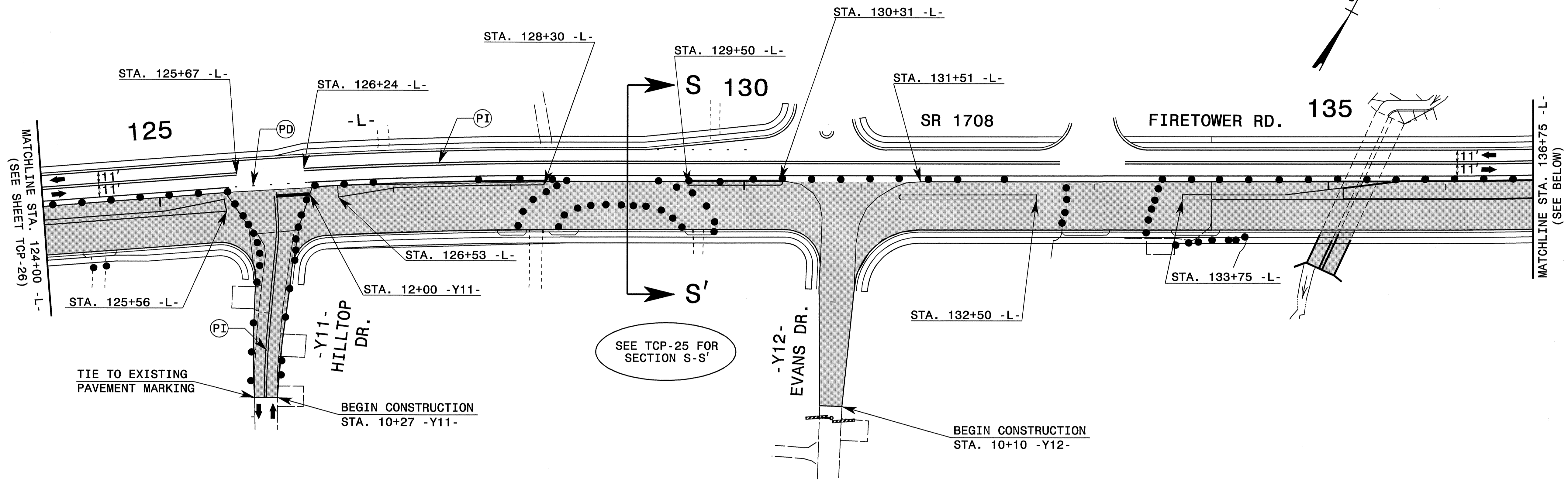
PHASE II DETAIL

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



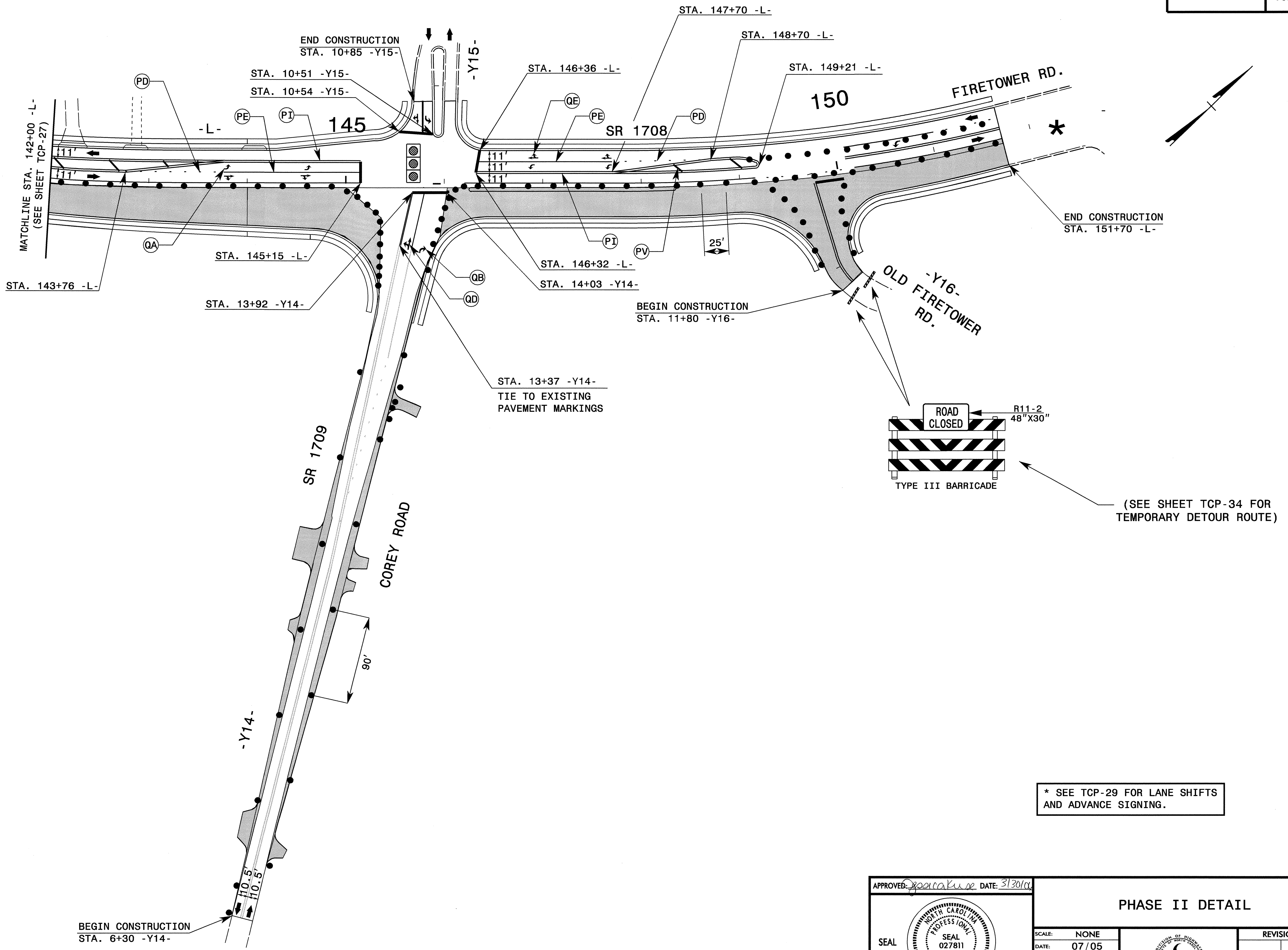
REVISIONS	

CADD FILE



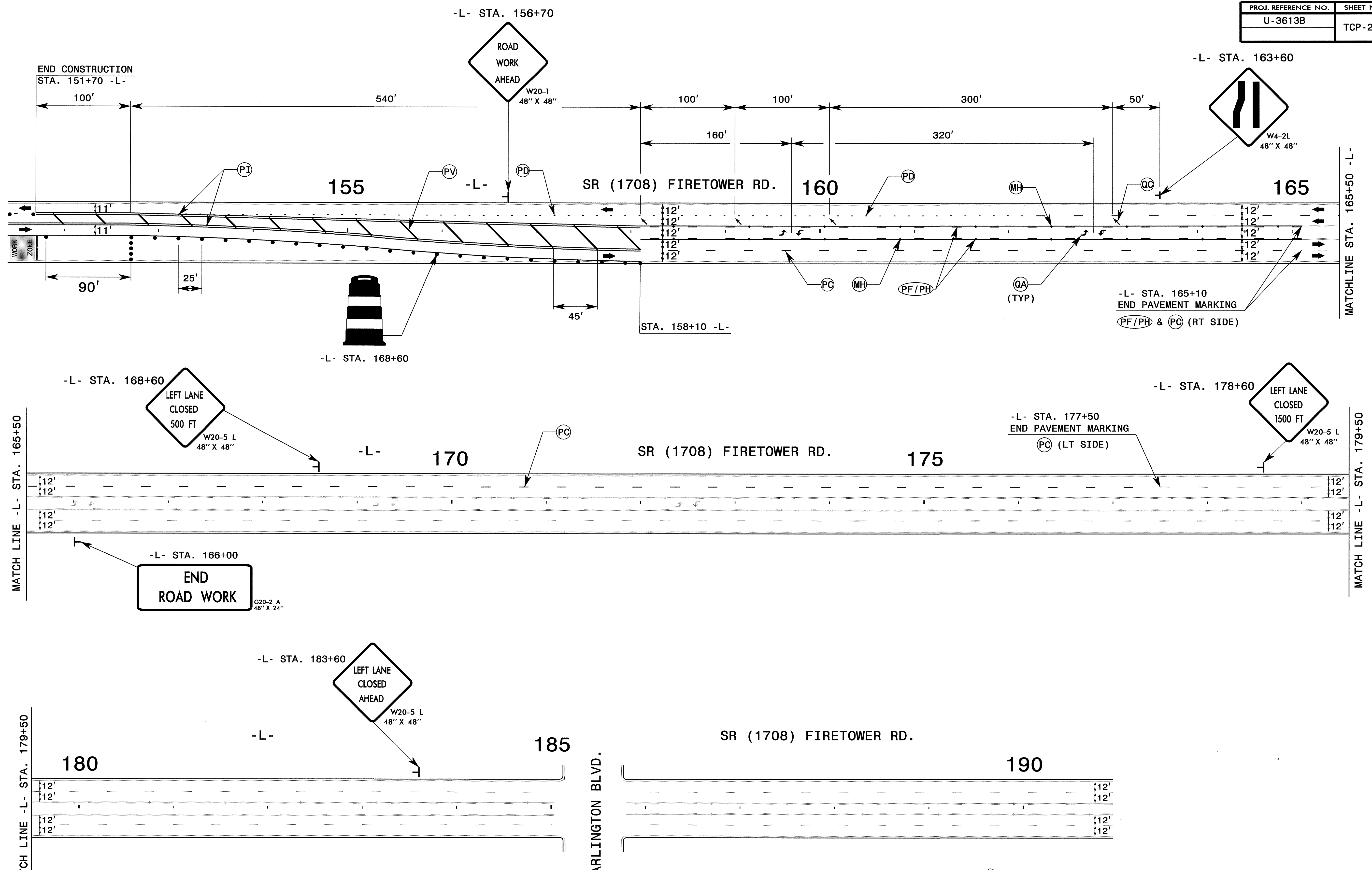
30-MAR-2006 11:05
 U:\GIS-Projects\U-3613B\Traffic\TrafficControl\top\Phase II\U3613B_TC_Phill_Detail_TCP27.dgn
 rmgsr 611 AT WZTC22291

APPROVED: <i>Jessica D. Kus</i> DATE: 3/20/06	PHASE II DETAIL	
SCALE: NONE		REVISIONS
DATE: 07/05		
DWG. BY: RMG		
DESIGN BY: RMG		
REVIEWED BY: JDK		



30-MAR-2006 10:05
 I:\GIS\c011803\13361388\Traffic\TrafficControl\Top\Phase II\U3613B_TC_Phil_Detail\TCP28.dgn
 TMSR11911 AT 1/21/02 22:29

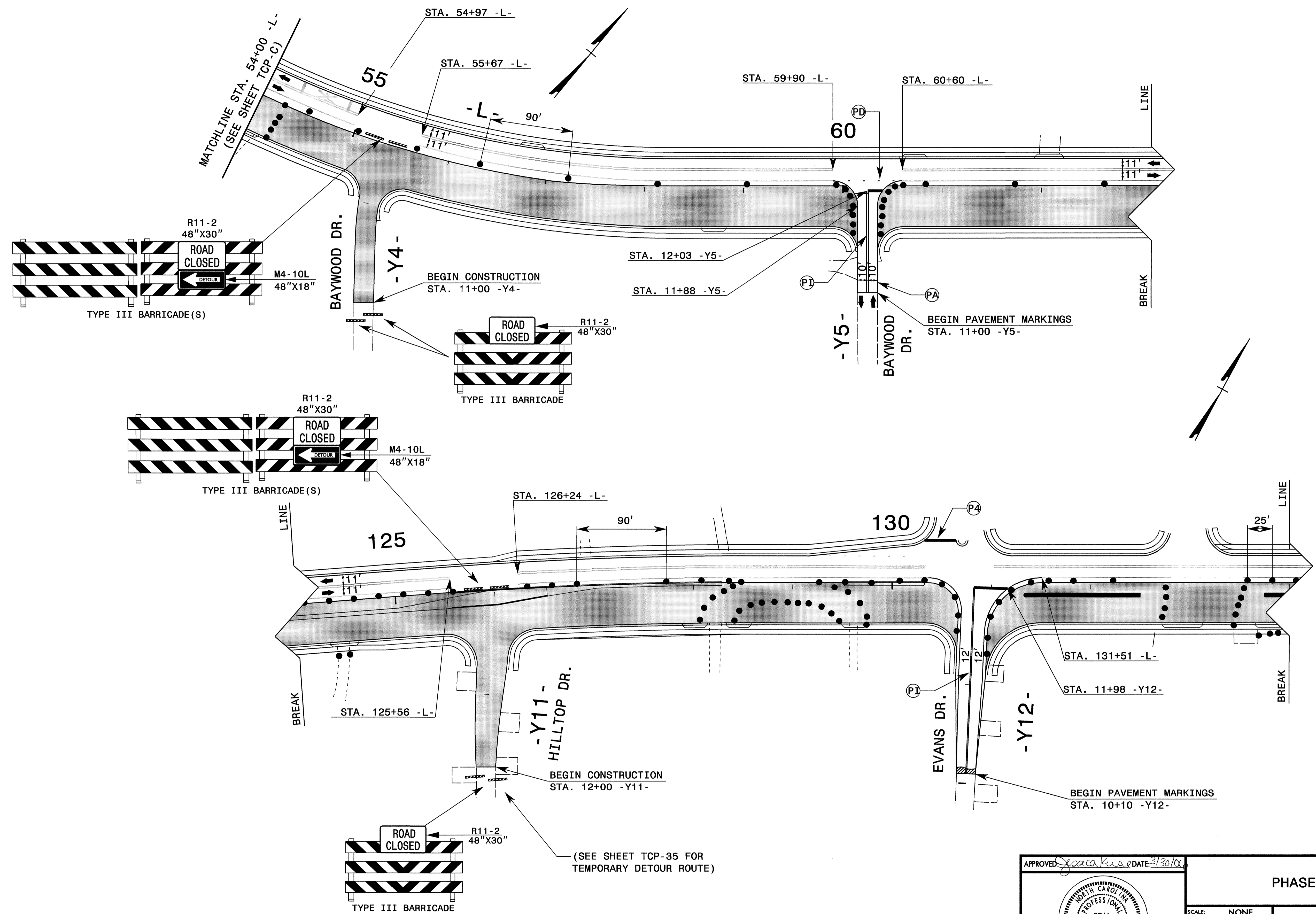
APPROVED: <i>[Signature]</i> DATE: 3/30/06	PHASE II DETAIL	
SEAL 	SCALE: NONE	
	DATE: 07/05	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK	REVISIONS	



30-MAR-2006 11:05 I:\J3613B\Traffic\TrafficControl\top\Phase II\U3613B_TC_Phil_Detail_TCP29.dgn
 r:\gis-cc\1503\AT\WZ\TC222291
 rimgurp@11

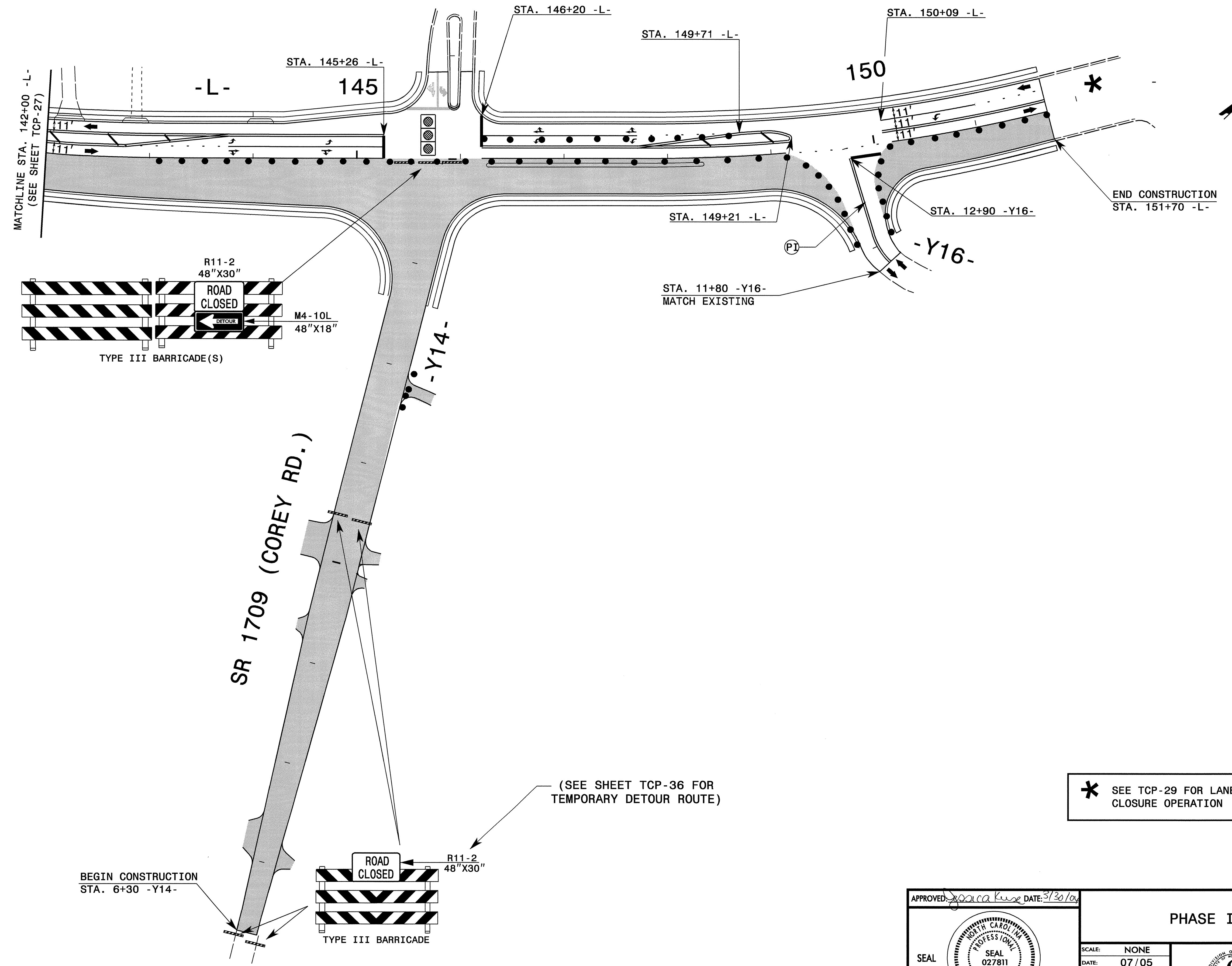
NOTE:
 COVER ALL SIGNS AND REMOVE ALL PAVEMENT MARKINGS / MARKERS OR SYMBOLS CONFLICTING WITH THIS TEMPORARY TRAFFIC PATTERN.

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



30-MAR-2006 11:05:38 AM \\traffic\traffic\control\top\Phase II\U3613B_TC_Phil_Detail\TCP30.dgn
 RMG:rmg AT 11/21/05

APPROVED: <i>Josaca Kus</i> DATE: 3/30/06 	PHASE II DETAIL							
	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>					



* SEE TCP-29 FOR LANE CLOSURE OPERATION

(SEE SHEET TCP-36 FOR TEMPORARY DETOUR ROUTE)

BEGIN CONSTRUCTION STA. 6+30 -Y14-



APPROVED: *Jessica Kuse* DATE: 3/30/05

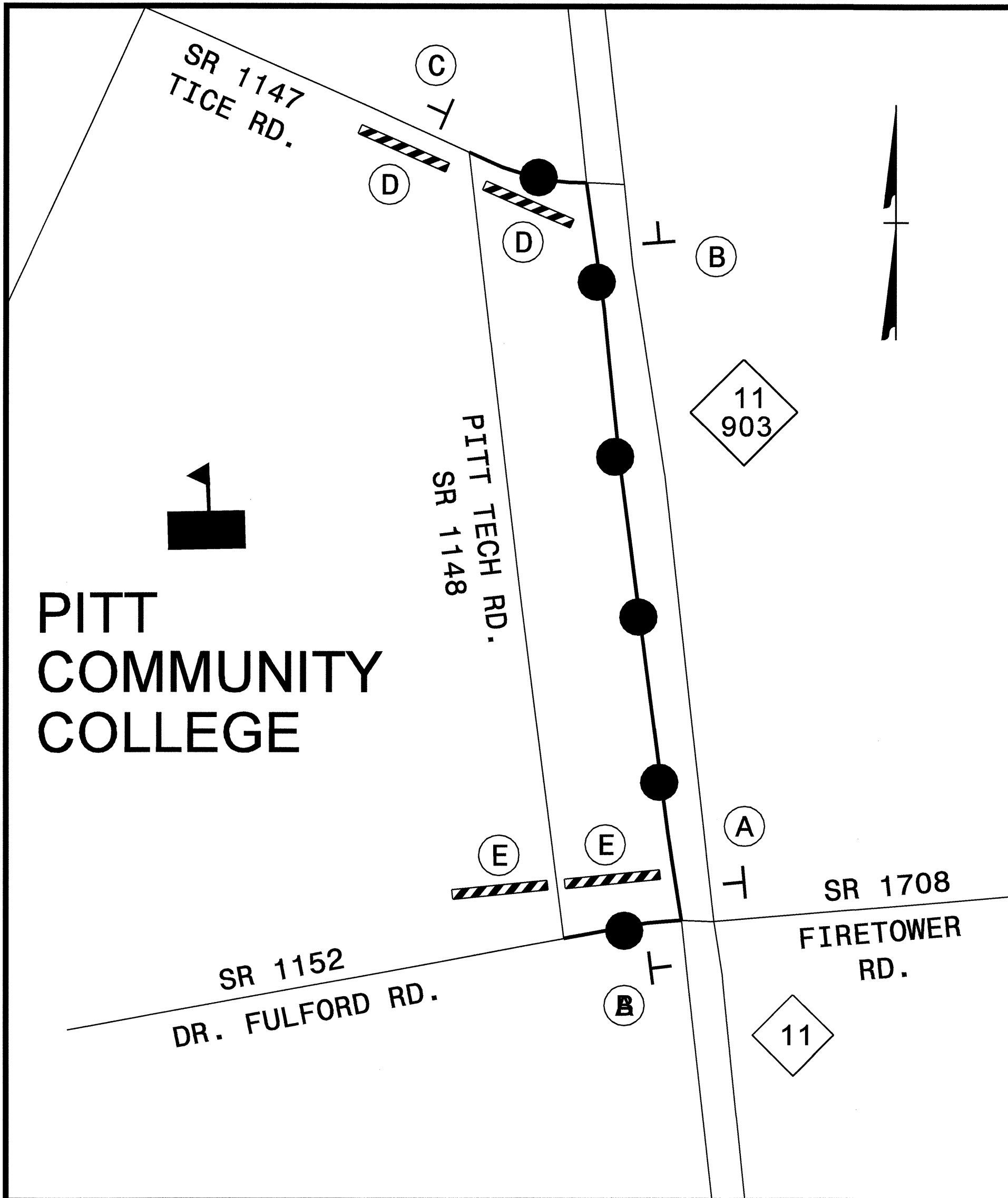
SEAL

PROFESSIONAL ENGINEER
JESSICA D. KUSE
027811

PHASE II DETAIL	
SCALE: NONE	REVISIONS
DATE: 07/05	
DWG. BY: RMG	
DESIGN BY: RMG	
REVIEWED BY: JDK	



30-MAR-2006 11:07
 \scts-cctfso3\U3613B\Traffic\TrafficControl\top\Phase II\U3613B-TC-Phil_Detail\TCP31.dgn
 rmgr:rmg AT 142222291



Sign Number: _____ Design By: DME Check By: _____
 Type: D Ground Project ID: _____ DIV: _____
 Quantity: 1

Sign Width: 4'-0" Background Color: Fluorescent Orange
 Height: 2'-0" Legend & Border Color: Black
 Total Area: 8.0 Sq.Ft.

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

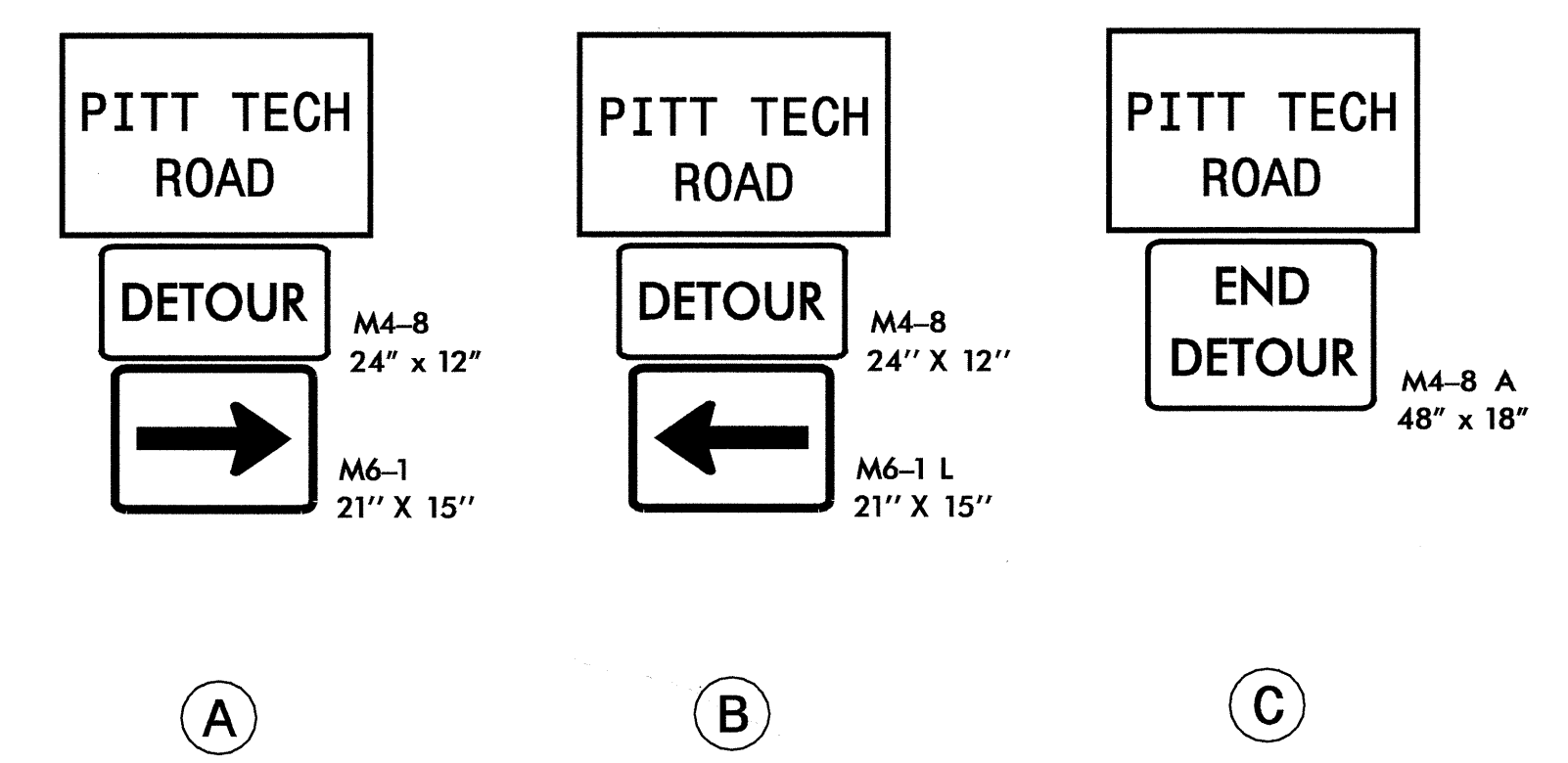
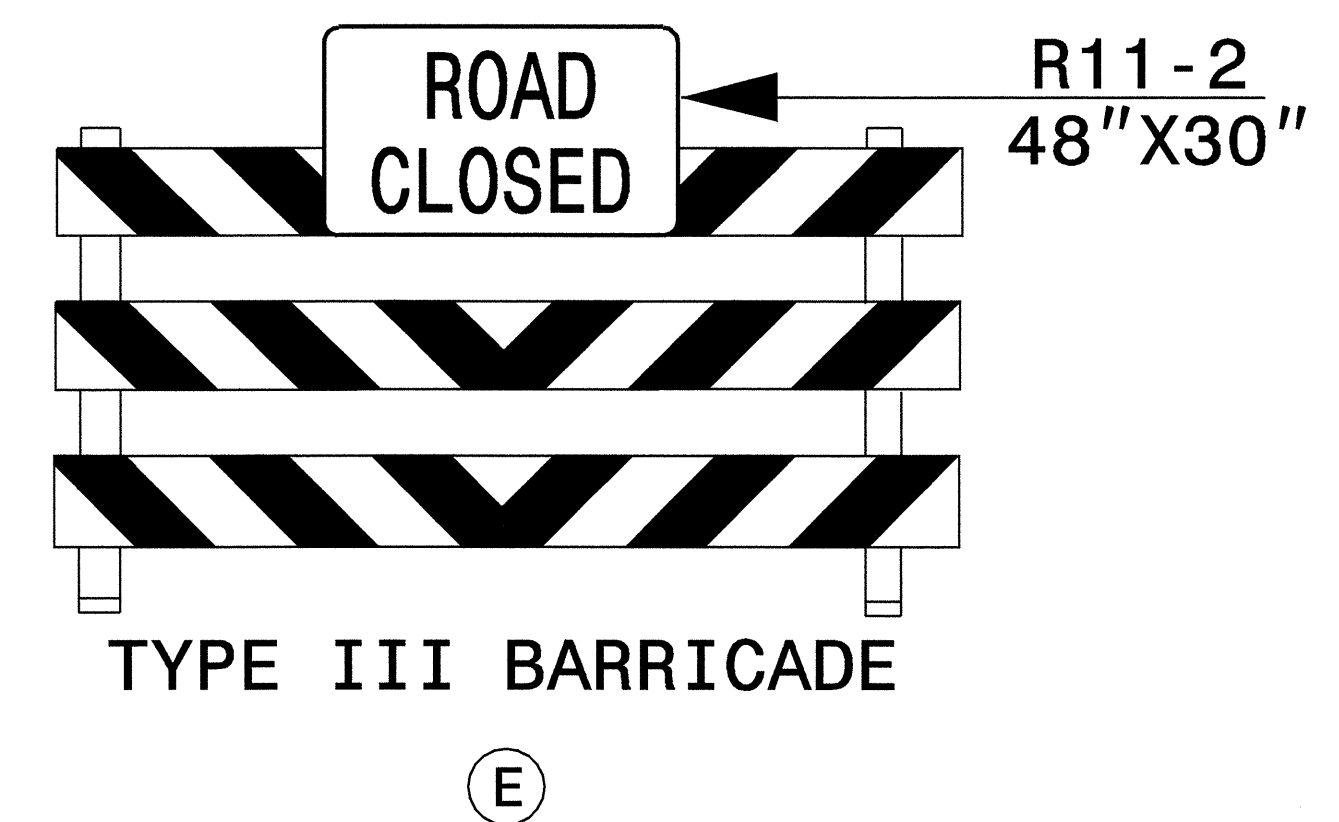
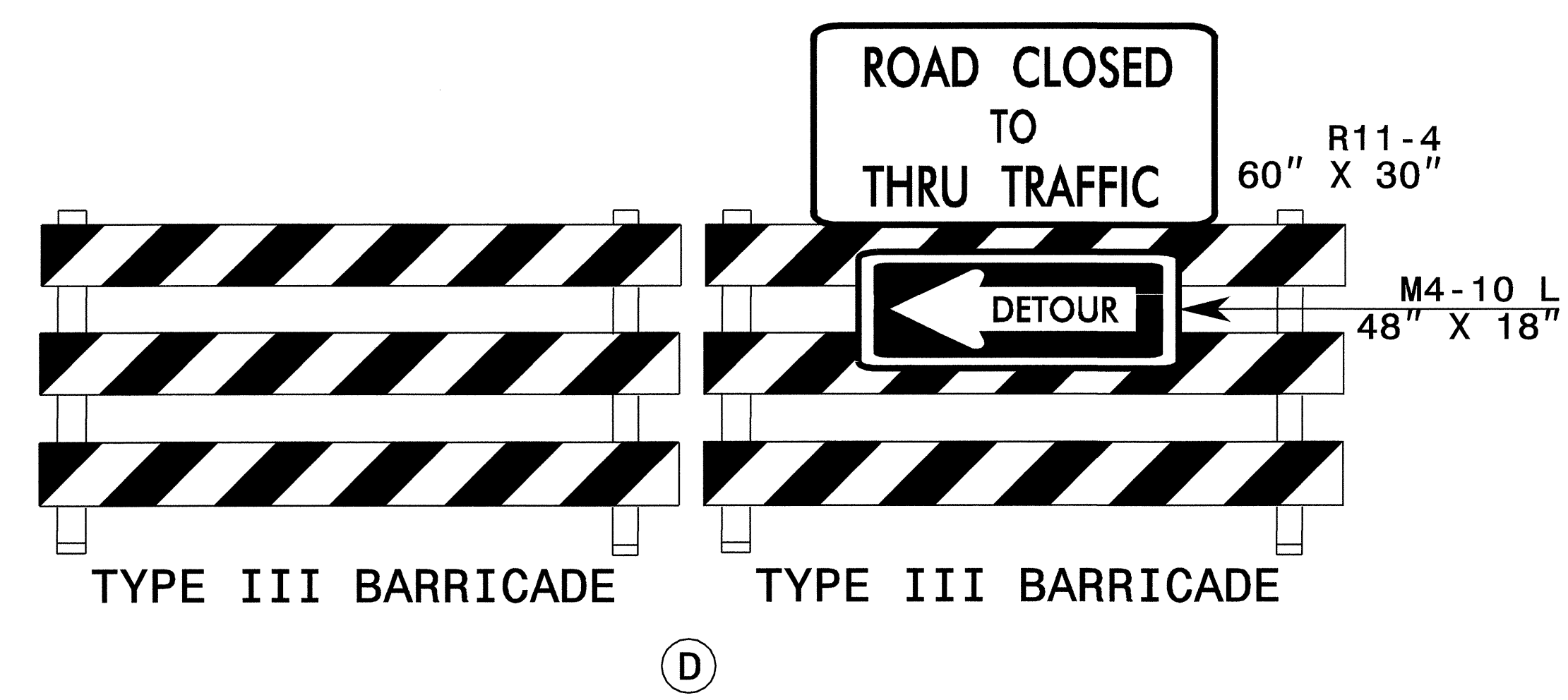
NOTES:
 1. Legend and border shall be direct applied non-reflective sheeting.
 2. Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.

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

Letter spacings are to start of next letter

	P	I	T	T	T	E	C	H												Series/Size Text Length
	4.5	5.5	2.1	4	3.7	5	4.8	4.8	5.2	4.1	4.5									D6
		R	O	A	D															39
	13.7	5.2	5.4	6.1	4	13.7														D6
																				20.7

Spacing Factor is 1 unless specified otherwise
 FILENAME: GS40_ENGL



APPROVED: *Jessica Kuse* DATE: 3/30/10

PHASE I OFFSITE DETOUR
-Y- (PITT TECH ROAD)

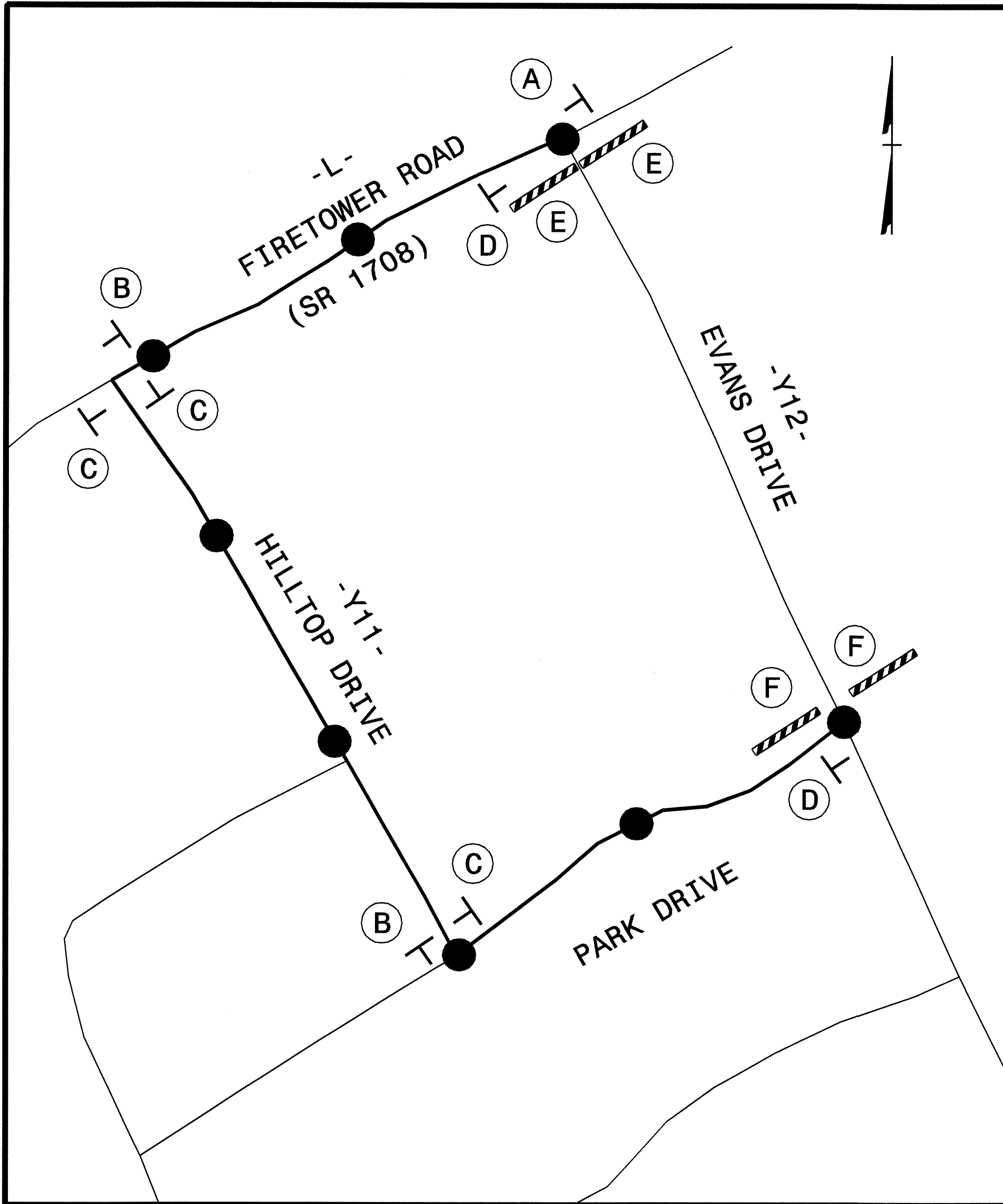
SCALE: NONE
DATE: 06/04
DWG. BY: RMG
DESIGN BY: RMG
REVIEWED BY: JDK

SEAL: *Jessica D. Kuse*
NORTH CAROLINA PROFESSIONAL ENGINEER
027811

REVISIONS

CADD FILE

30-MAR-2006 10:07
 \nets-cct503\U3613B\tr-officontrol\top\Phase U3613B_TC_Phl-Detail2.OSD_PittTech_TCP32.dgn
 ringarrett AT 1/2/2006 2:29



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"
Height: 2'-0"
Total Area: 7.0 Sq.Ft.

Background Color: Fluorescent Orange
Legend & Border Color: Black

Border Type: Recessed
Recess: 0.38"
Width: 0.63"
Radii: 1.5"

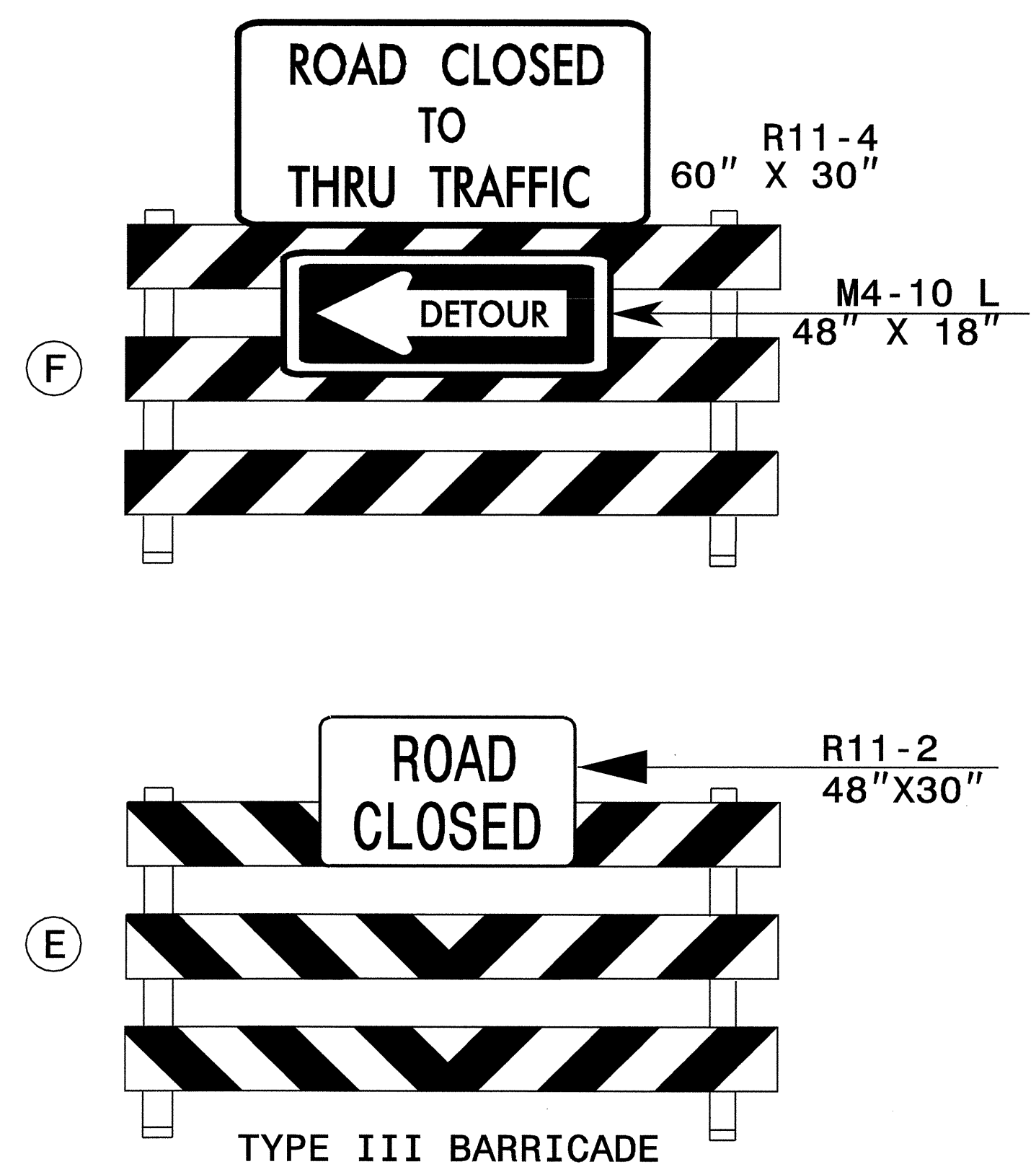
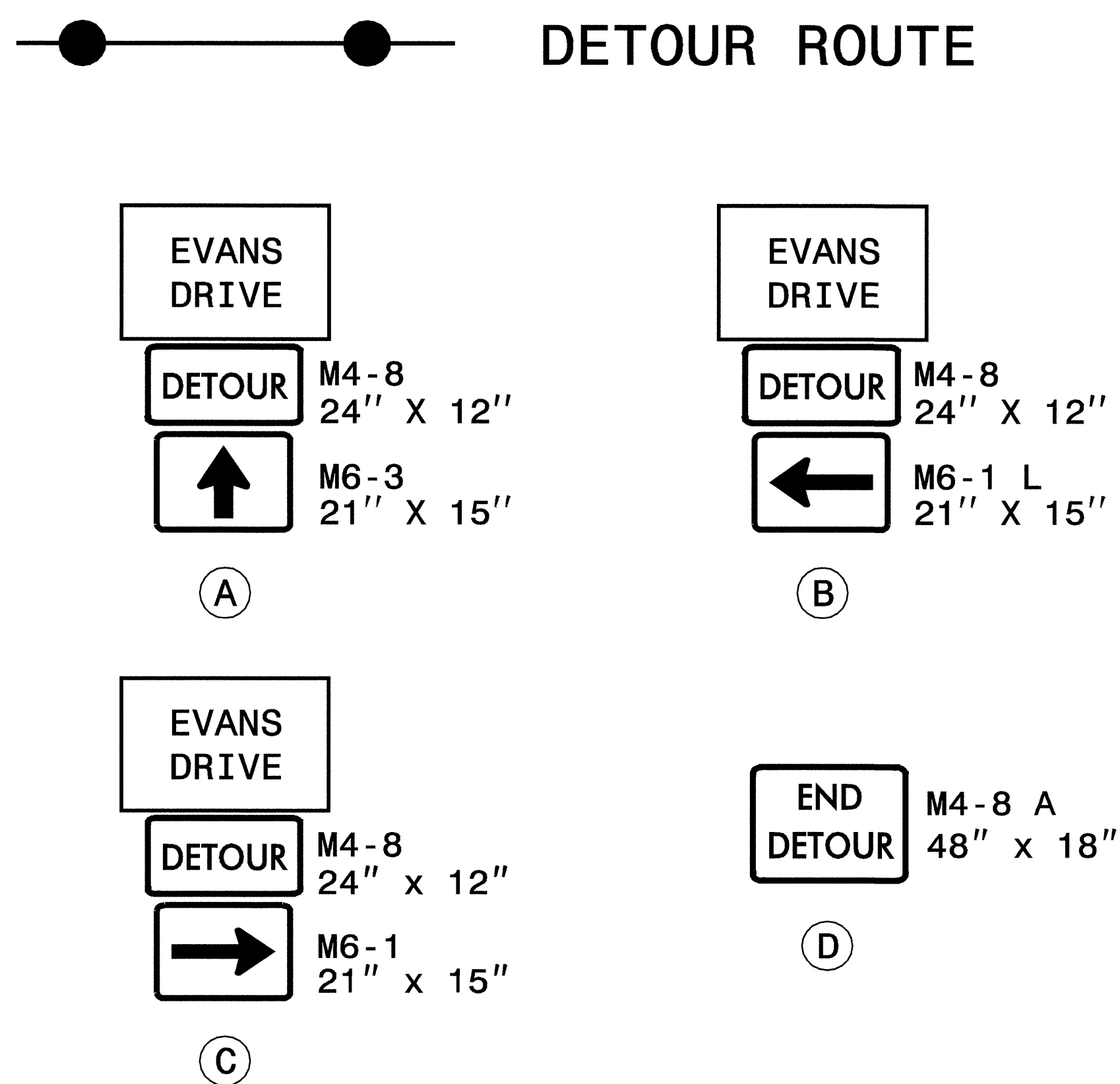
Backing Material: 0.125 in. Aluminum
0.079 in. Composite

NOTES:

- 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
E	V	A	N	S						D6
8.5	4.4	4.9	6.1	5.5	4	8.5				24.9
D	R	I	V	E						D6
9.9	5.5	5.5	2.1	5.6	3.7	9.9				22.3

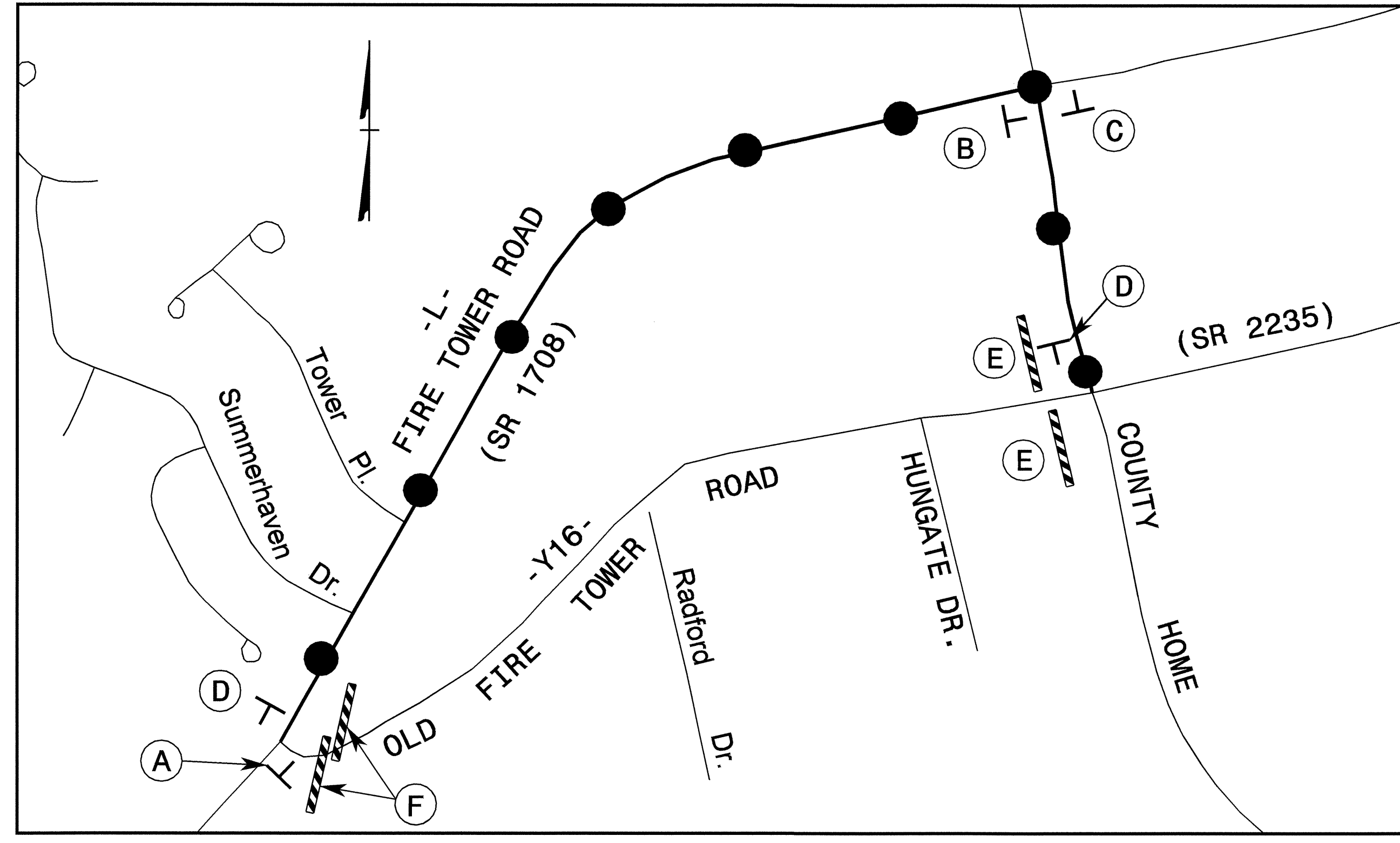
Spacing Factor is 1 unless specified otherwise
FILENAME: GS40_ENGL



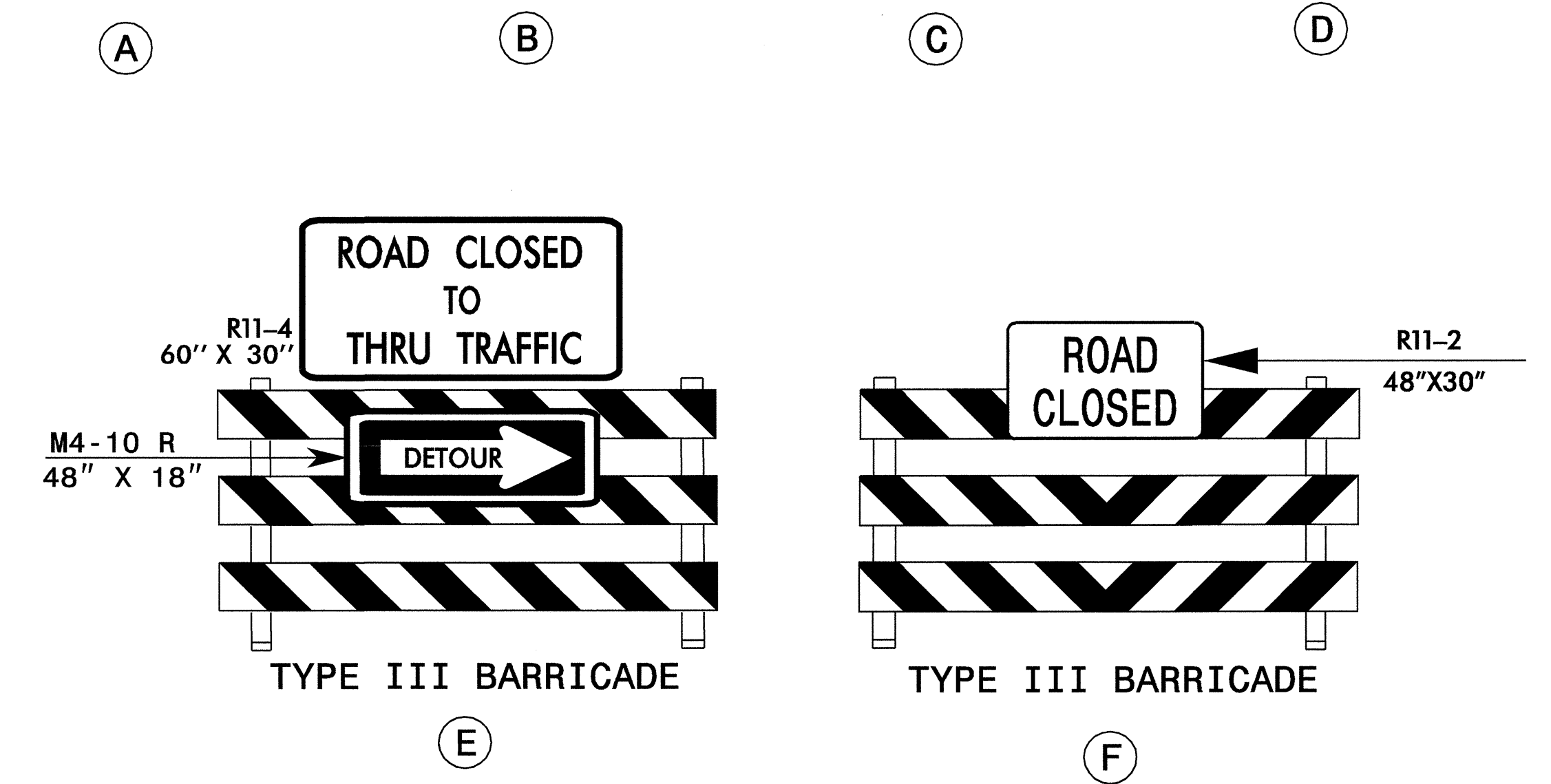
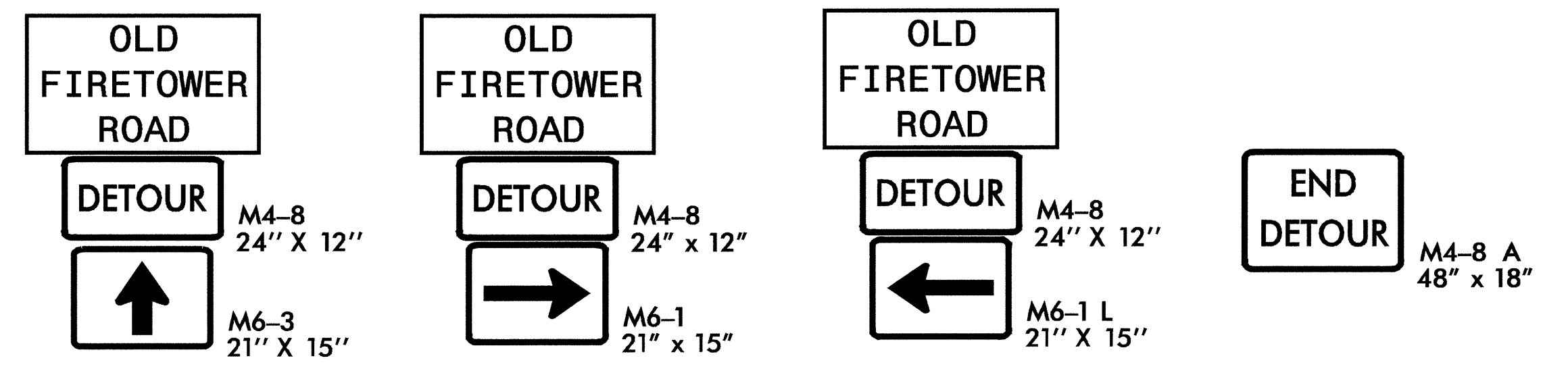
- NOTES:**
- THE WORK OF COVERING ANY EXISTING SIGNS WILL BE INCIDENTAL TO THE DETOUR SIGNING.
 - ALL SIGN LOCATIONS WILL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

APPROVED: <i>Jessica D. Kusek</i> DATE: 3/30/10	PHASE II OFFSITE DETOURS -Y12- (EVANS DRIVE)	
	SCALE: NONE	REVISIONS
	DATE: 06/04	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK		

30-MAR-2006 10:03:43 3613B\Traffic\TrafficControl\Phase II\U3613B_TC_Phill_Detail\OSD_Evans_TCP33.dgn
 b15-cct1303 AT 11/21/2005
 RMG/1611



● — ● DETOUR ROUTE



- 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.

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

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

NOTES:

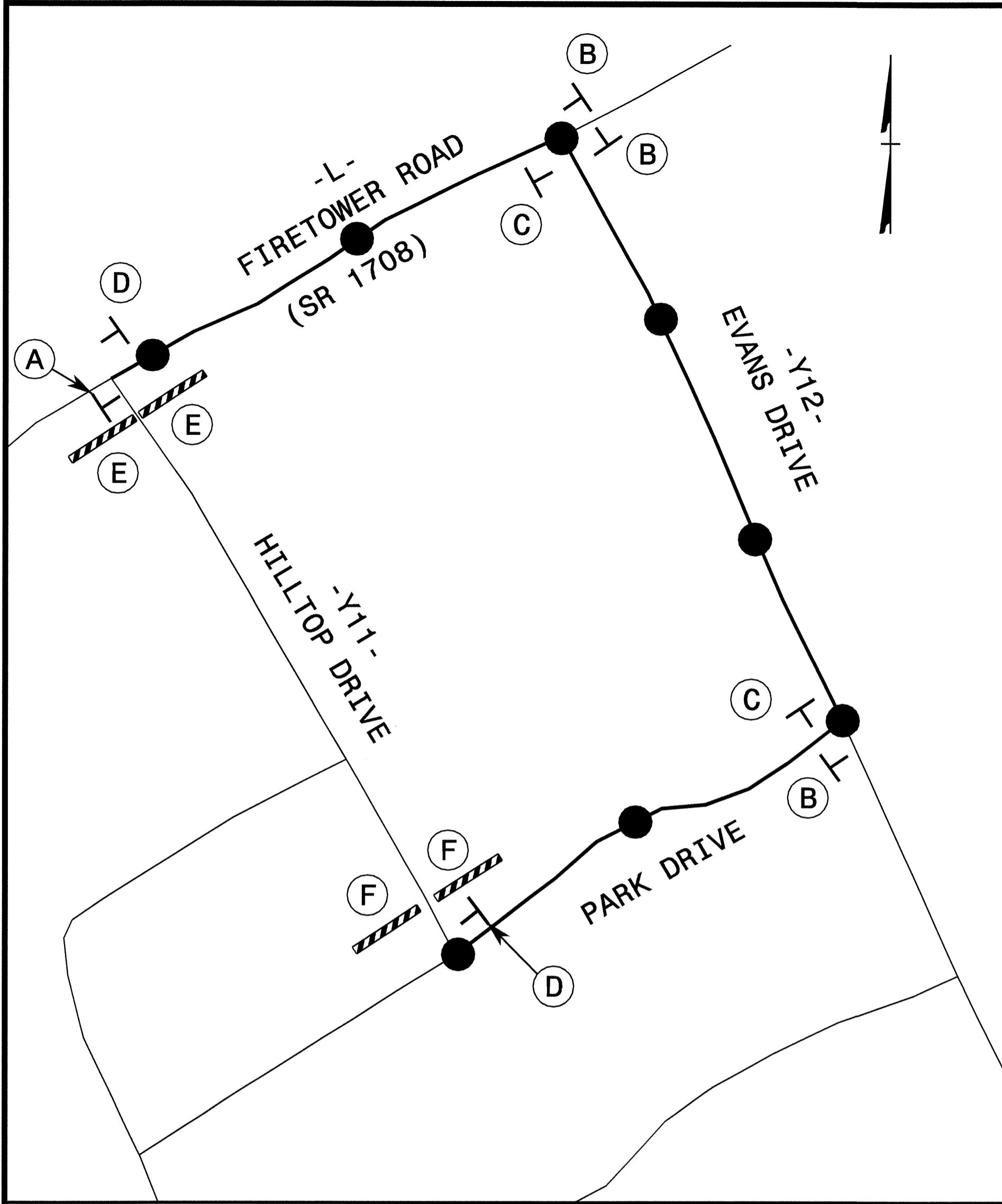
1. Legend and border shall be direct applied non-reflective sheeting.
2. Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.

Letter spacings are to start of next letter											Series/Size 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

APPROVED: <i>Jessica Kuse</i> DATE: 3/30/06	PHASE II OFFSITE DETOURS -Y16- (OLD FIRE TOWER ROAD)	
	SCALE: NONE	
	DATE: 07/25	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK	REVISIONS	

30-MAR-2006 10:09 AM
 \Users\cctso5\U3613B\Traffic\TrafficControl\Phase II\U3613B_TrafficControl\Phase II\U3613B_TrafficControl\U3613B_TrafficControl_TCP34.dgn
 ingart@tt AT 12/22/2005



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
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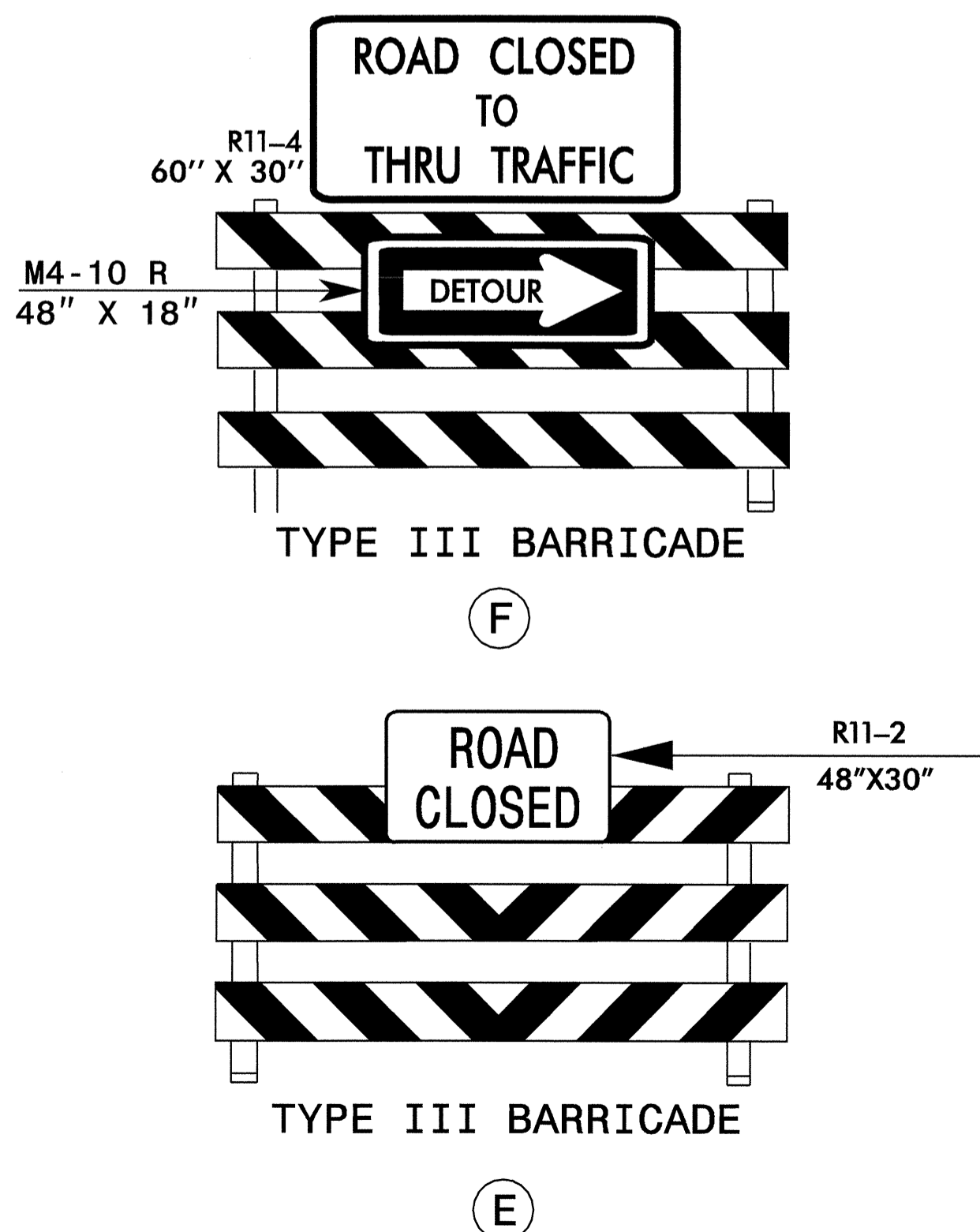
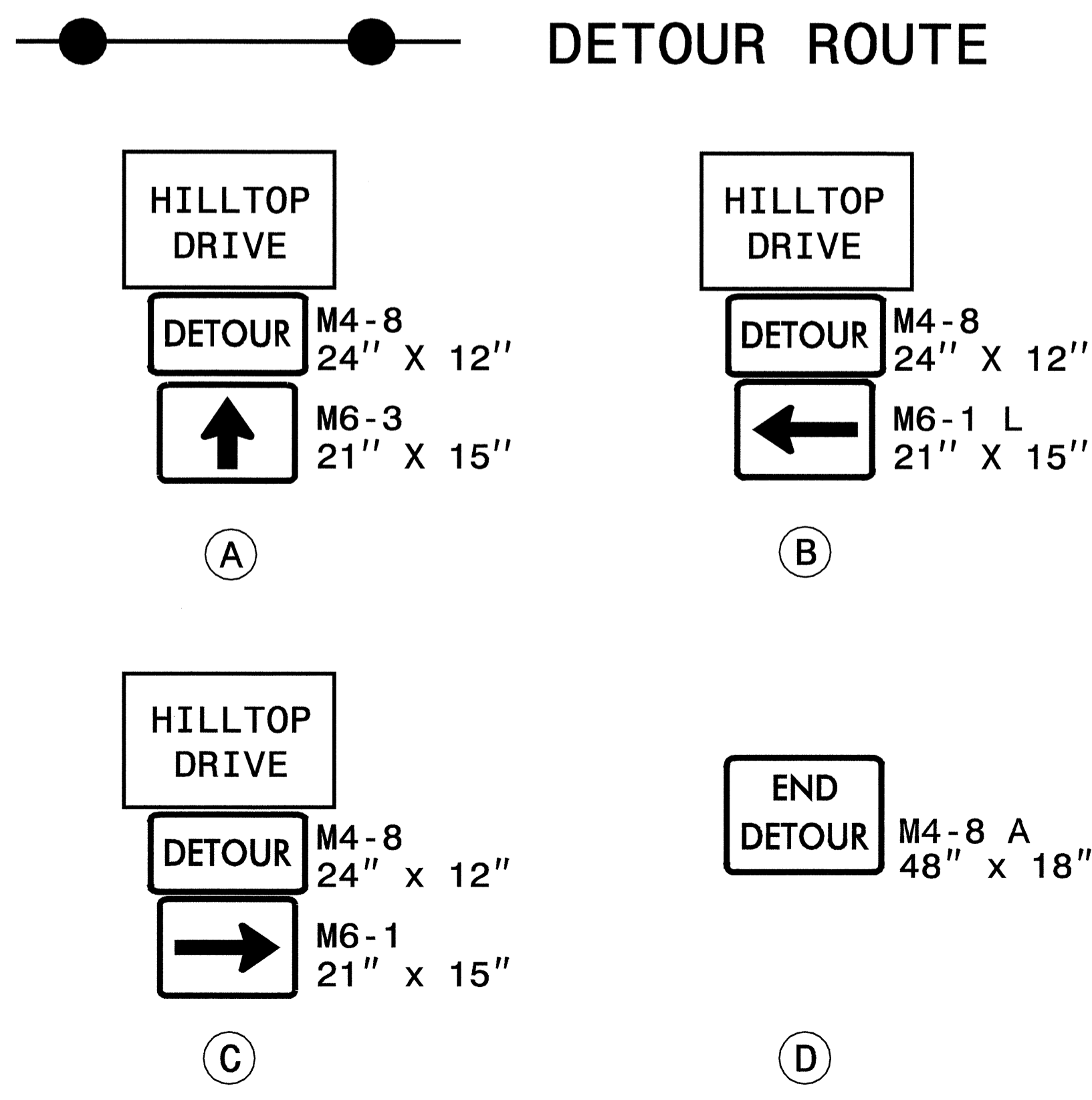
Sign Width: 4'-0"	Background Color: Fluorescent Orange
Height: 2'-0"	Legend & Border Color: Black
Total Area: 8.0 Sq.Ft.	

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.

Letter spacings are to start of next letter													Series/Size
													Text Length
		H	I	L	L	T	O	P					D6
		8.4	5.5	2.4	4.8	4	4.8	5.6	4.1	8.4			31.1
			D	R	I	V	E						D6
			12.9	5.5	5.5	2.1	5.6	3.7	12.9				22.3

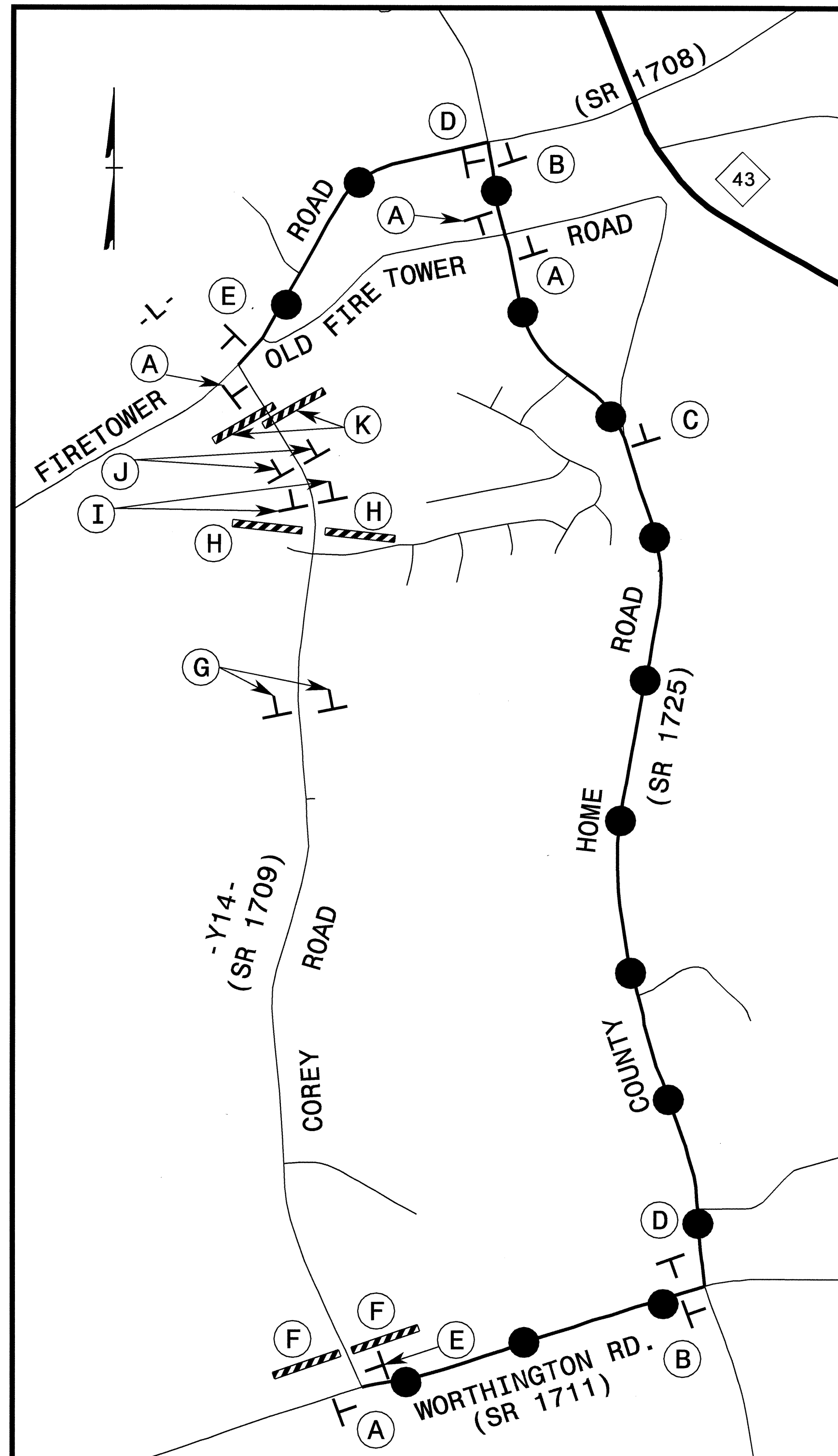
Spacing Factor is 1 unless specified otherwise
FILENAME: GS40_ENGL



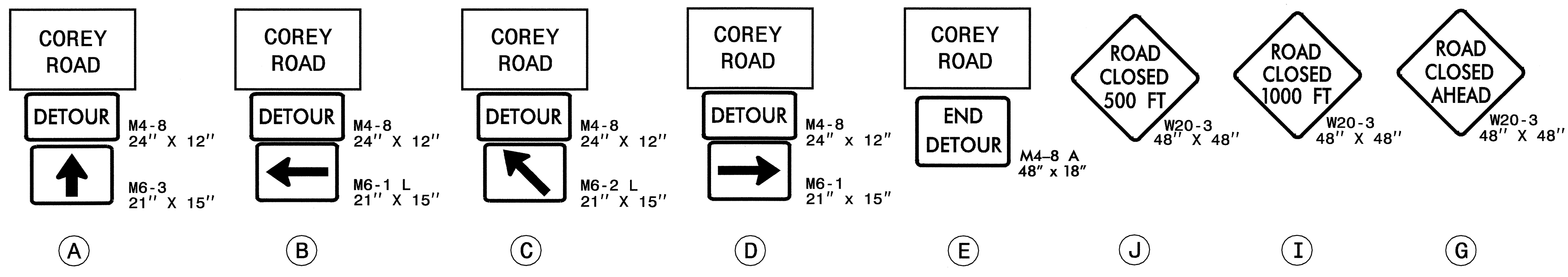
NOTES:
1) THE WORK OF COVERING ANY EXISTING SIGNS WILL BE INCIDENTAL TO THE DETOUR SIGNING.
2) ALL SIGN LOCATIONS WILL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

APPROVED: <i>Jessica D. Kusek</i> DATE: 3/23/05	PHASE II OFFSITE DETOURS -Y11- (HILLTOP DRIVE)	
	SCALE: NONE	REVISIONS
	DATE: 06/04	
	DWG. BY: RMG	
	DESIGN BY: RMG	
REVIEWED BY: JDK		

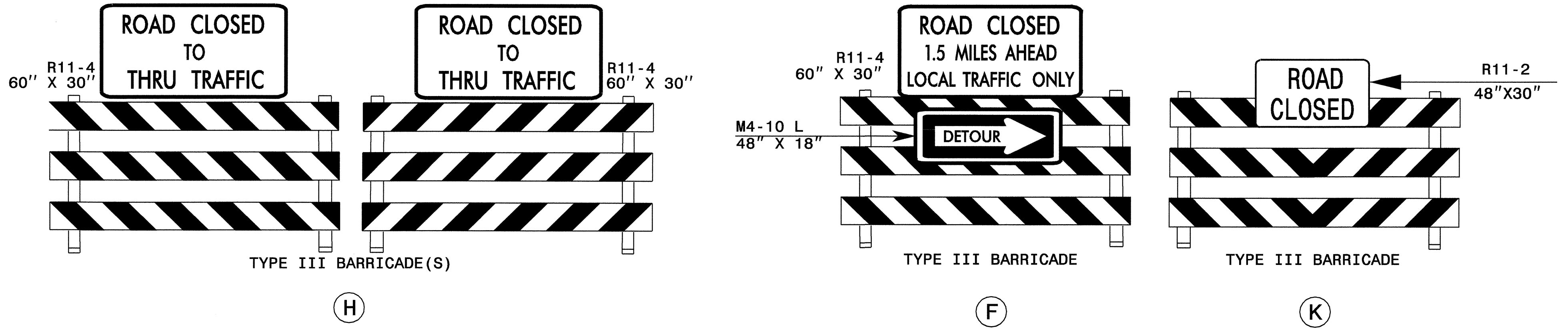
30-MAR-2006 11:03 AM I:\3613B\Traffic\TrafficControl\Phase II\U3613B_TC_Phil_Detail2.OSD_Hilltop_TCP35.dgn



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: 3'-6" Height: 2'-0" Total Area: 7.0 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.																																																				
<p>Letter spacings are to start of next letter</p> <table border="1"> <thead> <tr> <th colspan="7"></th> <th>Series/Size</th> </tr> <tr> <th colspan="7"></th> <th>Text Length</th> </tr> </thead> <tbody> <tr> <td></td><td>C</td><td>O</td><td>R</td><td>E</td><td>Y</td><td></td><td>D6</td> </tr> <tr> <td></td><td>8.1</td><td>5.2</td><td>5.6</td><td>5.5</td><td>4.4</td><td>5.1</td><td>25.7</td> </tr> <tr> <td></td><td>R</td><td>O</td><td>A</td><td>D</td><td></td><td></td><td>D6</td> </tr> <tr> <td></td><td>10.7</td><td>5.2</td><td>5.4</td><td>6.1</td><td>4</td><td>10.7</td><td>20.7</td> </tr> </tbody> </table> <p>Spacing Factor is 1 unless specified otherwise FILENAME: GS40_ENGL</p>												Series/Size								Text Length		C	O	R	E	Y		D6		8.1	5.2	5.6	5.5	4.4	5.1	25.7		R	O	A	D			D6		10.7	5.2	5.4	6.1	4	10.7	20.7
							Series/Size																																													
							Text Length																																													
	C	O	R	E	Y		D6																																													
	8.1	5.2	5.6	5.5	4.4	5.1	25.7																																													
	R	O	A	D			D6																																													
	10.7	5.2	5.4	6.1	4	10.7	20.7																																													



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: *Jessica D. Kuy* DATE: 3/30/08

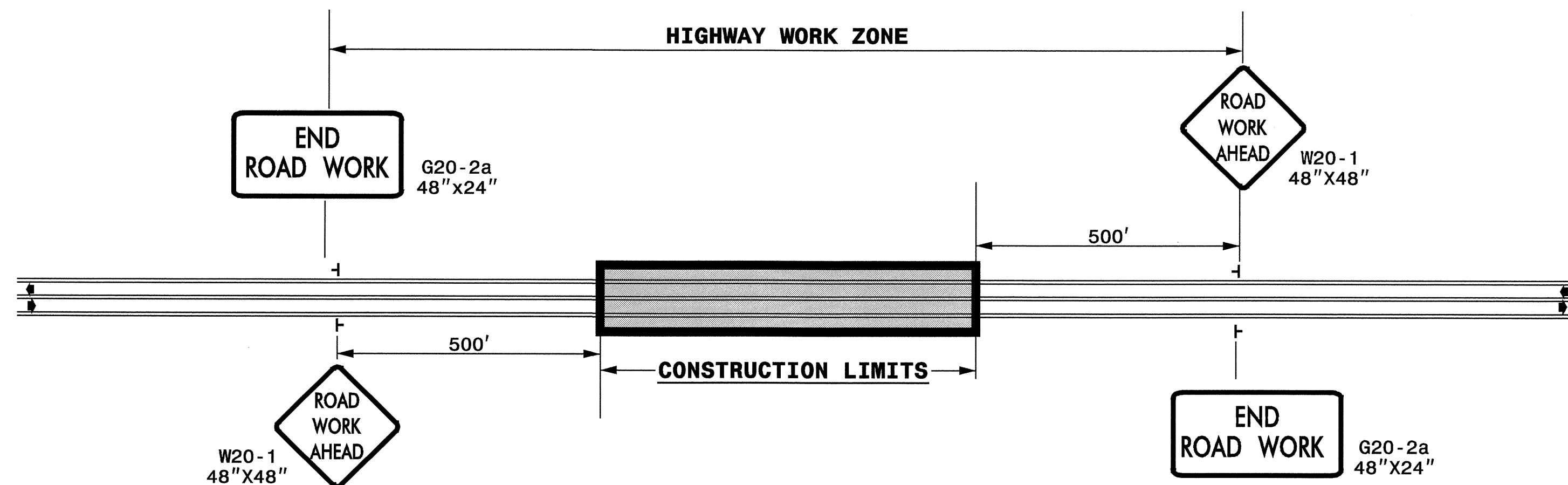
PHASE II OFFSITE DETOUR -Y14- (COREY ROAD)

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

REVIEWED BY: JDK

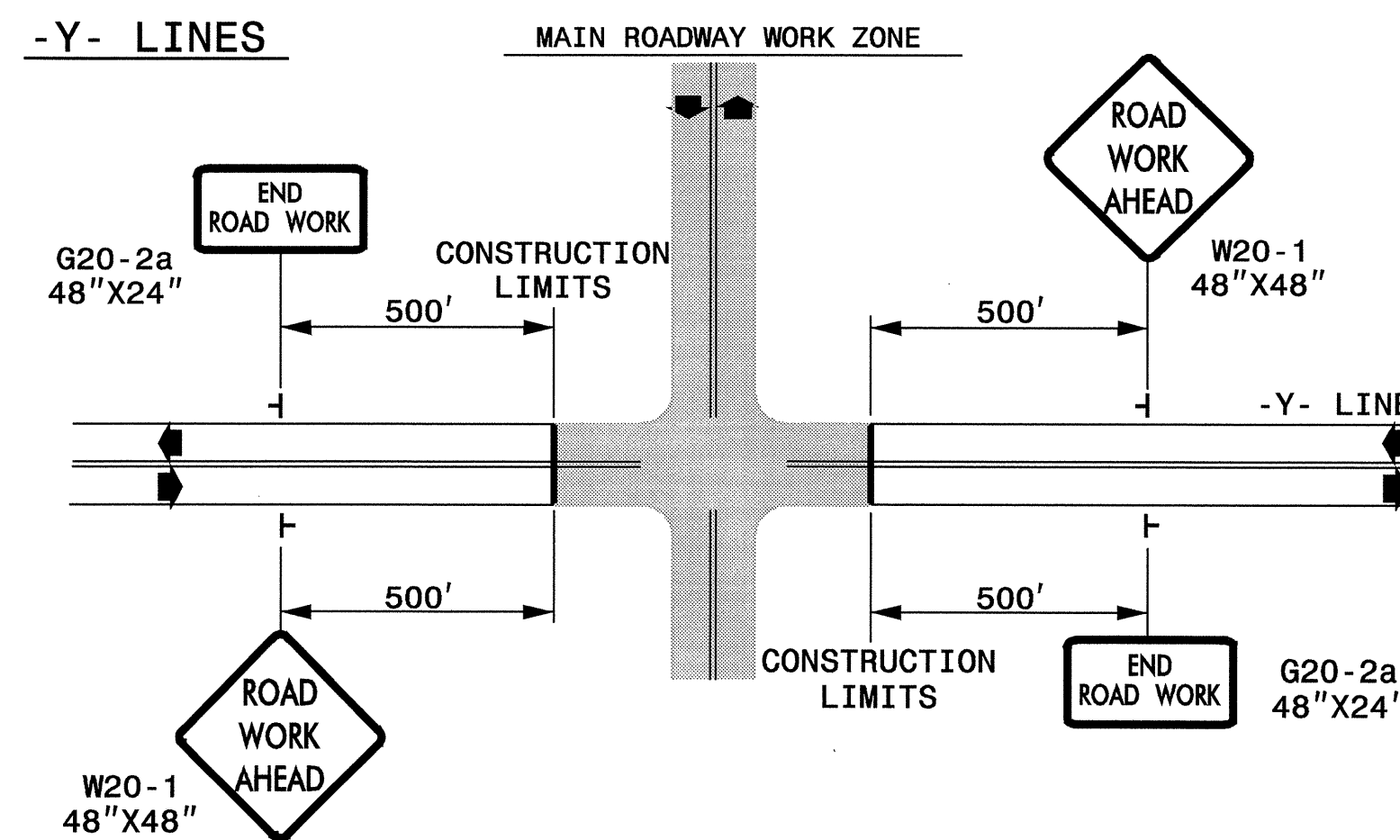
30-MAR-2006 11:01:00 \\fs03\cc\fs03\Users\jessica.kuy\TrafficControl\Phase II\U3613B_TC_Phil_Detail2_OSD_Corey_TCP36.dgn
 AT: WZTC22291

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

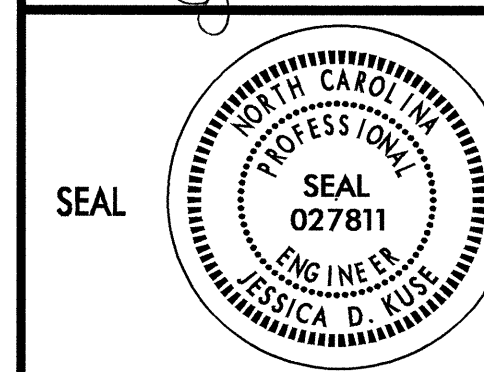
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS,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

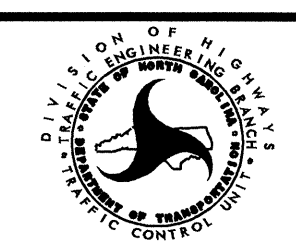
SHEET 1 OF 1

APPROVED: *Jessica D. Kues* DATE: 3/31/05



DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS

SCALE: NONE	REVISIONS	
DATE: 10/05	7-98	10/01
DWG. BY: RMG	10-98	03/04
DESIGN BY: RMG	01/01	11/04
REVIEWED BY: JDK	CADD FILE	



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

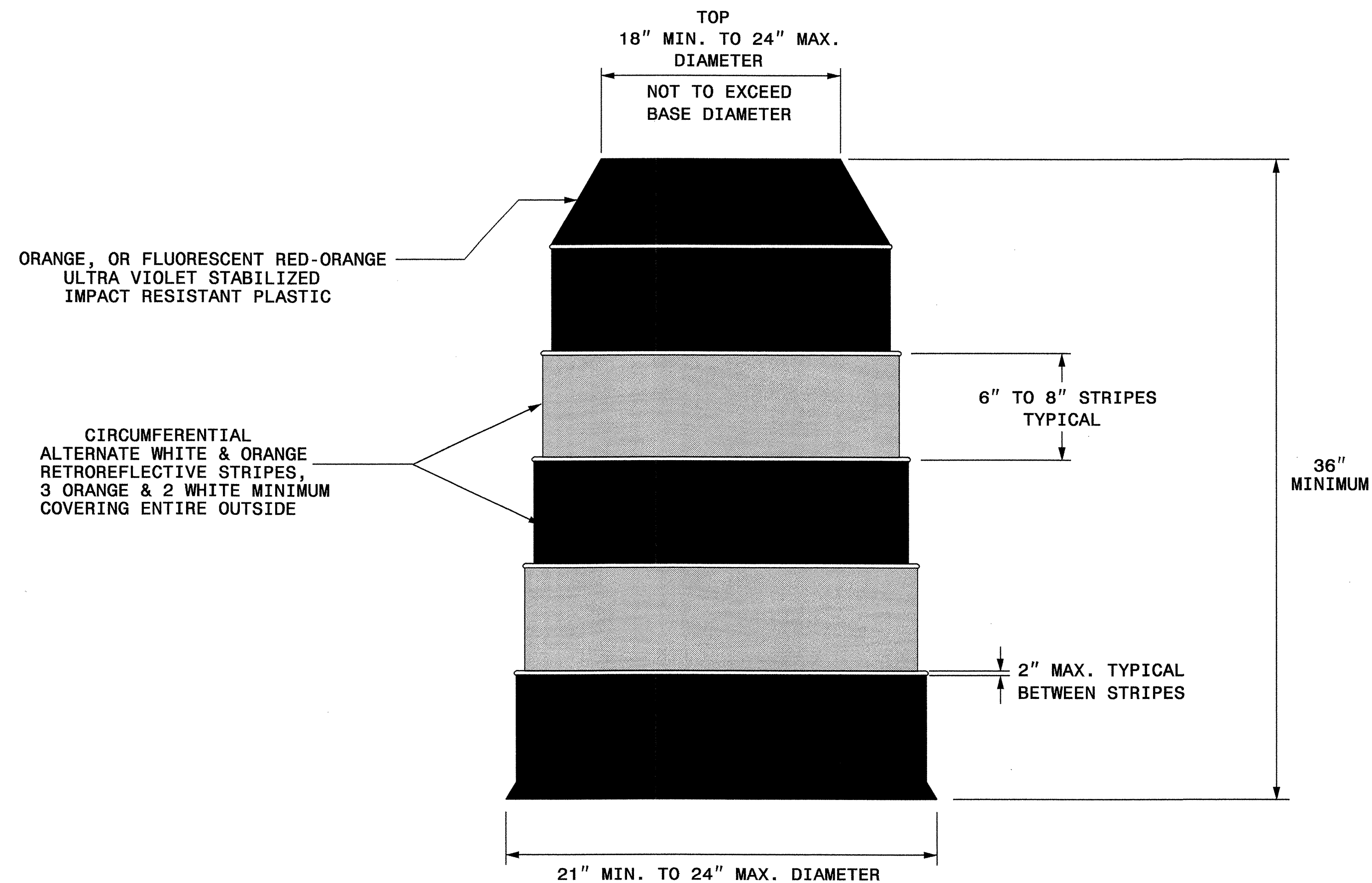
ENGLISH STANDARD DRAWING FOR
DRUMS

SHEET 1 OF 1
1130D01

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

ENGLISH STANDARD DRAWING FOR
DRUMS

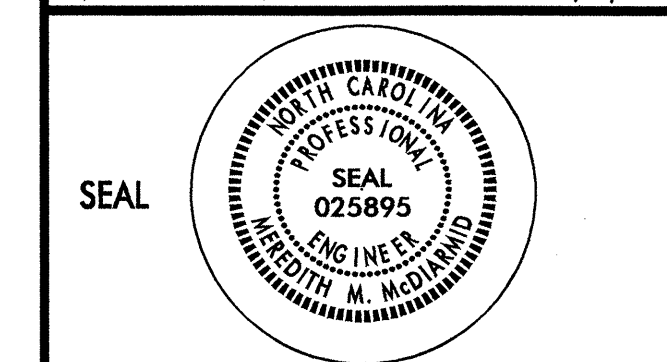
SHEET 1 OF 1
1130D01



GENERAL NOTES

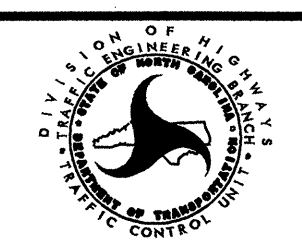
- BALLASTING SHALL BE ACHIEVED BY THE SAND BAG, TIRE-SIDEWALL BALLAST, OR PREFORMED WEIGHTED BASE BALLASTING METHODS. DO NOT PLACE BALLAST ON TOP OF THE DRUM.
- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-RETROREFLECTIVE DRUM SURFACES. SHOW THE LETTERS AND NUMBERS USING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

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



**REPLACEMENT DETAIL FOR
RSD 1130.01**

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



REVISIONS	
11/02	
09/05	

CADD FILE

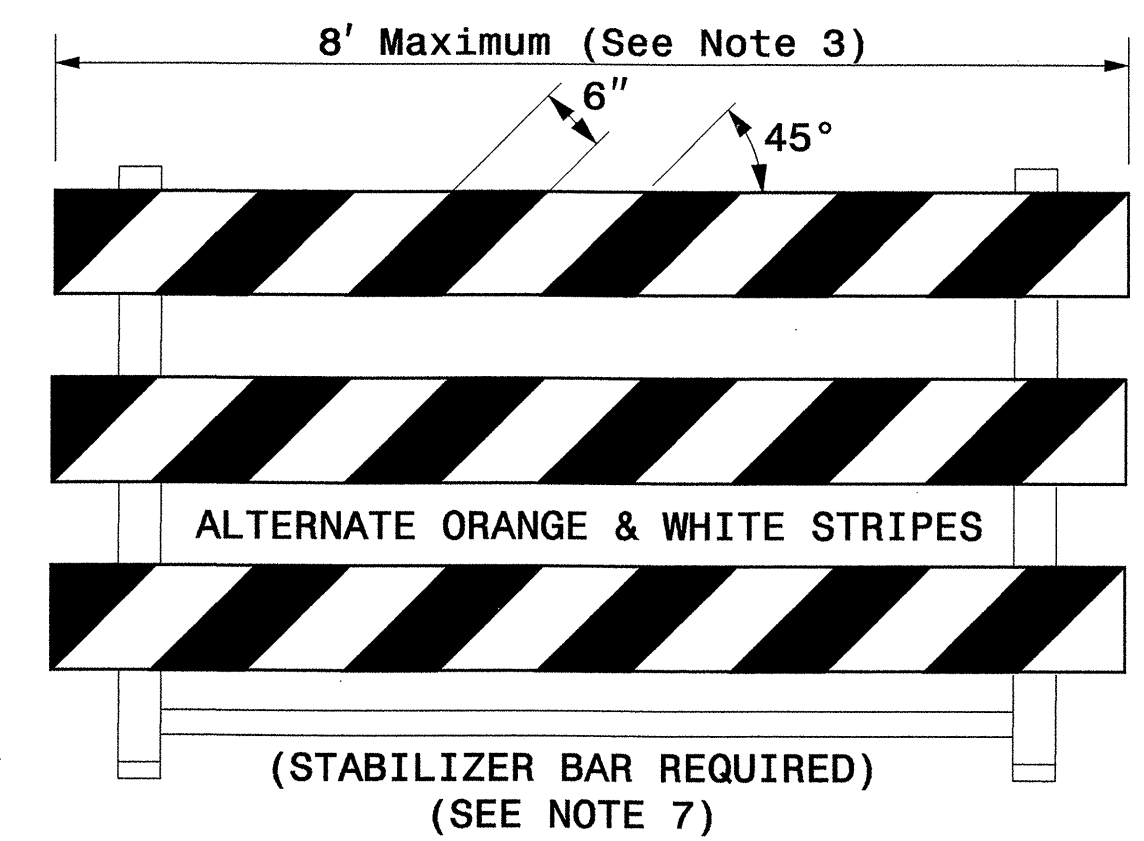
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

1-05

ENGLISH STANDARD DRAWING FOR
BARRICADES
 TYPE-III

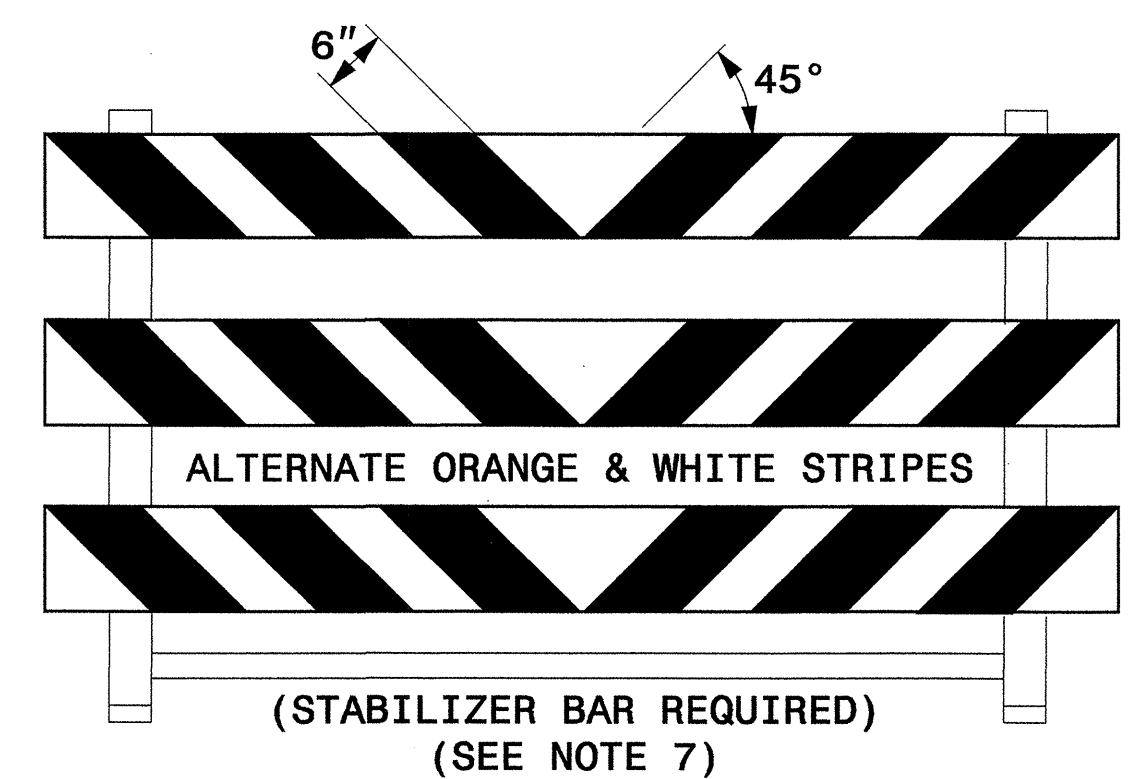
SHEET 1 OF 1
1145D01

TYPE III BARRICADE



TYPE III BARRICADE

END-OF-ROADWAY APPLICATIONS



GENERAL NOTES

- 1) HORIZONTAL RAILS FOR TYPE-III BARRICADES MAY BE HOLLOW/CORRUGATED EXTRUDED RIGID POLYOLEFIN, HIGH DENSITY POLYETHYLENE, OR OTHER NCDOT APPROVED RAILS. BARRICADE RAILS OF FRANGIBLE PLASTICS SUCH AS PVC MAY NOT BE USED. IF APPROVED PLASTIC TYPE RAILS ARE USED, THEY MUST BE FLAME TREATED BY THE MANUFACTURER SO THAT REFLECTIVE SHEETING MAY ADHERE PROPERLY.
- 2) BARRICADES AND BARRICADE RAILS ARE APPROVED AS A SINGLE UNIT.
- 3) BARRICADE SHALL BE LIMITED TO A MAXIMUM LENGTH OF 8 FT UNLESS NCHRP 350 CRASH TESTED AND NCDOT APPROVED.
- 4) ONLY NCDOT APPROVED COMPOSITE AND ROLL-UP SIGNS MAY BE MOUNTED ON THE BARRICADE.
- 5) SIGNS MOUNTED ON BARRICADES SHOULD NOT COVER MORE THAN 50 PERCENT OF THE TOP TWO RAILS OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS.
- 6) USE TYPE VII, VIII OR IX SHEETING ON BOTH SIDES OF THE RAILS.
- 7) BARRICADE MUST BE NCHRP 350 AND NCDOT APPROVED WITH STABILIZER BAR OR ADEQUATE LATERAL BRACING.
- 8) ASSEMBLY OF THE GENERIC BARRICADES MUST BE SELF CERTIFIED BY THE ASSEMBLER.
- 9) BARRICADES USED TO CLOSE A ROADWAY SHALL EXTEND ACROSS THE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED PATTERN.
- 10) STRIPES ON WORK ZONE BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE RETROREFLECTIVE STRIPES, SLOPED DOWNWARD TOWARDS THE SIDE WHICH TRAFFIC IS TO PASS OR TURN IN DETOURING. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES. USE RED AND WHITE STRIPES FOR PERMANENT BARRICADES.
- 11) SEE APPROVED PRODUCTS LIST FOR MANUFACTURERS OF APPROVED BARRICADES.
- 12) PLACE MANUFACTURER'S NAME AND FEDERAL HIGHWAY ADMINISTRATION'S NCHRP 350 APPROVAL LETTER NUMBER ON BARRICADE.
- 13) USE SANDBAGS PLACED ON THE LOWER PART OF THE FRAME FOR BALLASTING. DO NOT PLACE SANDBAGS ON TOP OF A STRIPED RAIL. DO NOT BALLAST BARRICADES BY HEAVY OBJECTS SUCH AS ROCKS, CHUNKS OF CONCRETE OR OTHER ITEMS THAT WOULD CAUSE DAMAGE IF THE BARRICADE IS STRUCK BY A VEHICLE.

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

1-05

ENGLISH STANDARD DRAWING FOR
BARRICADES
 TYPE-III

SHEET 1 OF 1
1145D01

25-APR-2005 17:00
 G:\b\10046-51\10046-51.dwg
 WJ0005 AT 11/02/05

APPROVED: <i>MMM</i> DATE: 5/16/05		REPLACEMENT DETAIL FOR RSD 1145.01	
	SCALE: NONE		REVISIONS
	DATE: 11/04		
	DWG. BY: MMM		
	DESIGN BY: MMM		
REVIEWED BY: MMM			