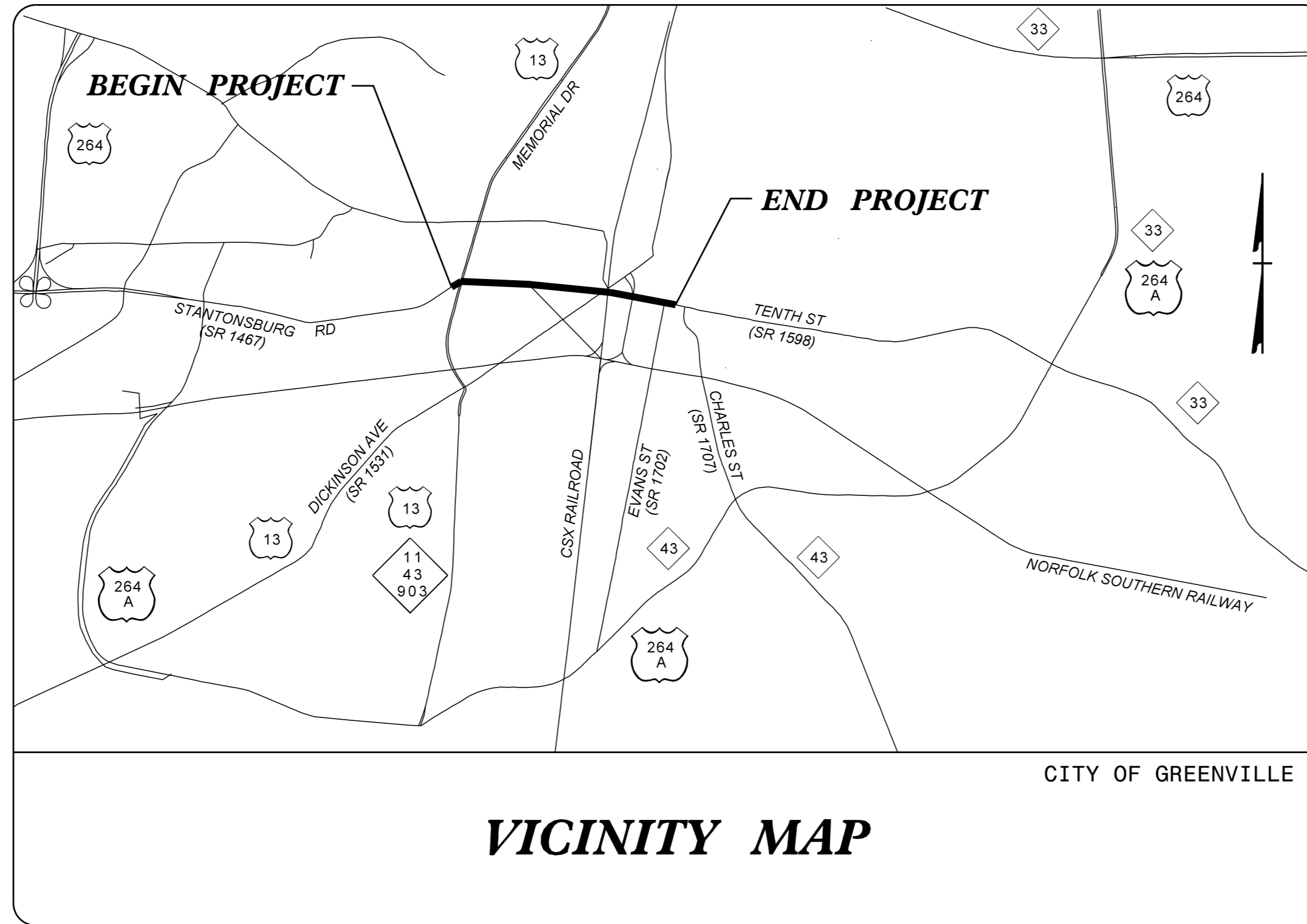
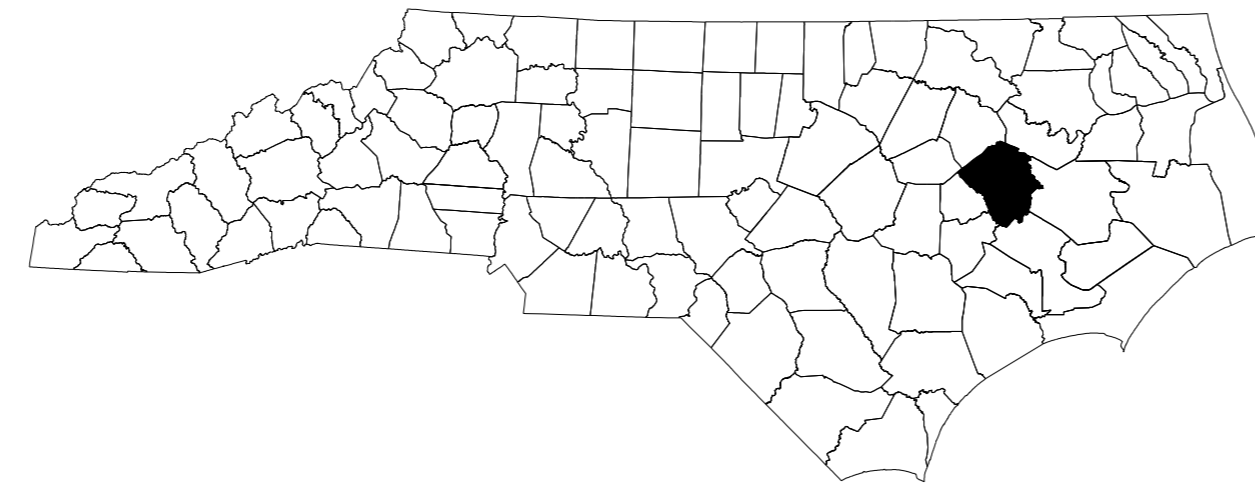


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**PITT COUNTY**

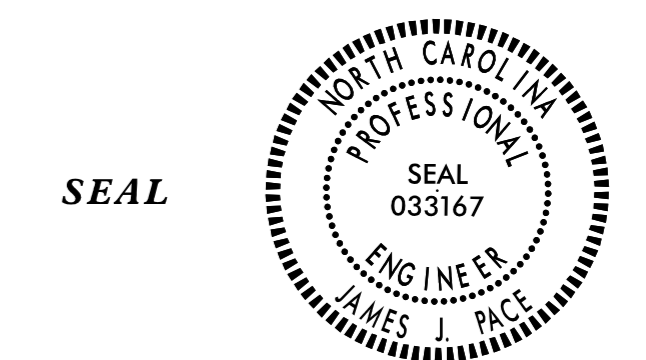


<b>INDEX OF SHEETS</b>	
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B, 1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND LOCAL NOTES)
TMP-2	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TMP-2A	TEMPORARY SHORING NOTES
TMP-3	PHASING
TMP-4 THRU TMP-13	PHASE I DETAILS
TMP-14 THRU TMP-23	PHASE II DETAILS
TMP-24 THRU TMP-29	PHASE III DETAILS
TMP-30 THRU TMP-47	DETOUR ROUTES
SD-1 THRU SD-2	SPECIAL SIGN DESIGNS

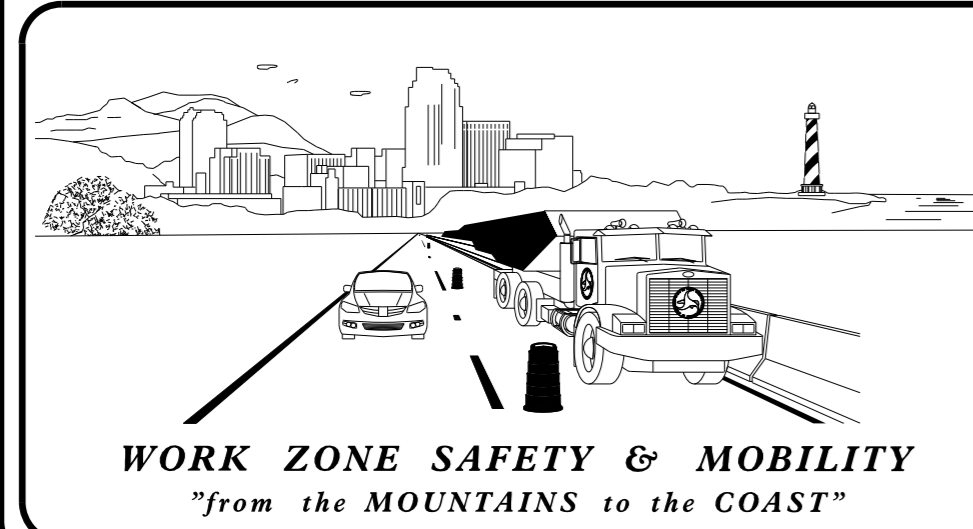
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APPROVED: Jason Pace 11/5/2014  
 DATE: 7773A34E03B47C

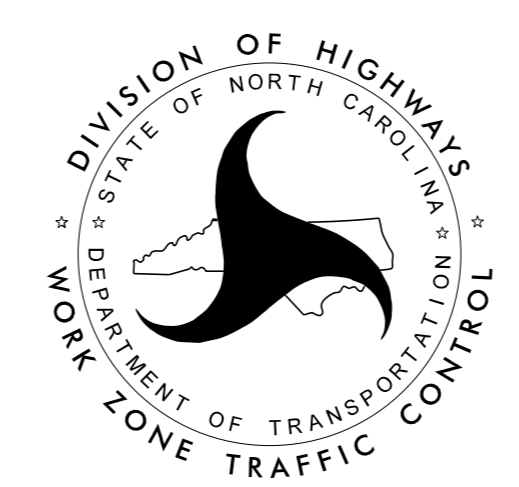


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**U-3315**

**TIP PROJECT:**

# ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
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
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS
1267.01	FLEXIBLE DELINEATOR INSTALLATION
1267.02	FLEXIBLE DELINEATOR SPACING
1267.03	FLEXIBLE DELINEATOR - INTERCHANGES

## LEGEND

### GENERAL

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

### TRAFFIC CONTROL DEVICES

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

### TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

### SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

### PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

### PAVEMENT MARKERS

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

### PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

### TEMPORARY PAVEMENT MARKING

#### PAVEMENT MARKING LINES

- PA - PAINT (4" WHITE, 2X) EDGELINE
- PB - PAINT (4" YELLOW, 2X) EDGELINE
- PC - PAINT (4" WHITE, 2X) 4" X 10' SKIP
- PD - PAINT (4" WHITE, 2X) 4" x 2' MINISKIP
- PE - PAINT (4" WHITE, 2X) SOLID LANE LINE
- PF - PAINT (4" YELLOW, 2X) 4" X 10' SKIP
- PG - PAINT (4" YELLOW, 2X) 4" x 2' MINISKIP
- PH - PAINT (4" YELLOW, 2X) SINGLE CENTER LINE
- PI - PAINT (4" YELLOW, 2X) DOUBLE CENTER LINE
- PR - PAINT (8" WHITE, 2X) GORELINE
- PS - PAINT (8" WHITE, 2X) DIAGONAL
- PV - PAINT (8" YELLOW, 2X) DIAGONAL
- PX - PAINT (8" WHITE, 2X) CROSSWALK
- P2 - PAINT (24" WHITE, 2X) STOP BAR

#### PAVEMENT MARKING SYMBOLS

- QA - PAINT 2X (LEFT TURN ARROW)
- QB - PAINT 2X (RIGHT TURN ARROW)
- QC - PAINT 2X (STRAIGHT ARROW)
- QD - PAINT 2X (COMBINATION STRAIGHT & LEFT TURN ARROW)
- QE - PAINT 2X (COMBINATION STRAIGHT & RIGHT TURN ARROW)
- QG - PAINT 2X (COMBINATION STRAIGHT, RIGHT, & LEFT TURN ARROW)
- QI - PAINT 2X (ALPHANUMERIC CHARACTER)

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APPROVED: <u>Jason Pace</u> DATE: <u>11/27/2014</u> 		<b>ROADWAY STANDARD DRAWINGS &amp; LEGEND</b>
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## MANAGEMENT STRATEGIES

PROPOSED IMPROVEMENTS ALONG STANTONSBURG ROAD, FARMVILLE BOULEVARD, MEMORIAL DRIVE, 14TH AVENUE, EVANS STREET, AND ALL OTHER SIDE STREETS WILL BE CONSTRUCTED WHILE MAINTAINING TRAFFIC AND USING TEMPORARY TRAFFIC PATTERNS, TEMPORARY LANE CLOSURES, AND TEMPORARY ROAD AND INTERSECTION CLOSURES WITH OFFSITE DETOUR ROUTES. PEDESTRIANS WILL BE MAINTAINED THROUGHOUT CONSTRUCTION IN AREAS WHERE CONNECTIVITY PRESENTLY EXISTS USING PEDESTRIAN DETOURS, GREENVILLE AREA TRANSIT, AND CONSTRUCTION SEQUENCING. THE PROPOSED STORM DRAINAGE SYSTEM CONSTRUCTION WILL BE SEQUENCED AND REQUIRE TEMPORARY CONNECTIONS, ADJUSTMENT OF BOX ELEVATIONS, AND TEMPORARY ROAD CLOSURES.

PROPOSED NEW LOCATION OF TENTH STREET, BRIDGE, AND MSE WALLS WILL BE CONSTRUCTED AWAY FROM TRAFFIC USING TEMPORARY AND PERMANENT ROAD CLOSURES. TEMPORARY ROAD CLOSURES WILL INCLUDE OFFSITE DETOUR ROUTES. ACCESS TO REMAINING BUSINESSES ALONG TENTH STREET WILL BE MAINTAINED. ANY CONSTRUCTION ITEM REQUIRING A RAIL CROSSING CLOSURE SHALL BE COORDINATED WITH CSX OR NORFOLK SOUTHERN/CLNA.

## GENERAL NOTES

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

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

## TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
STANTONSBURG ROAD (SR 1467) MEMORIAL DRIVE (US 13 / NC 11)	MONDAY THRU SUNDAY 6:00 AM TO 7:00 PM
FARMVILLE BLVD TENTH STREET (SR 1598) BANCROFT AVENUE / LINE AVENUE 14TH STREET (SR 1703) DICKINSON AVENUE (SR 1531) EVANS STREET (SR 1702)	MONDAY THRU FRIDAY 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM
14TH ST (DURING SCHOOL OPERATIONS)	MONDAY THRU FRIDAY 7:00 AM TO 9:00 AM AND 3:00 PM TO 6:00 PM

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

ROAD NAME
STANTONSBURG ROAD (SR 1467) FARMVILLE BLVD TENTH STREET (SR 1598) MEMORIAL DRIVE (US 13 / NC 11) BANCROFT AVENUE / LINE AVENUE 14TH STREET (SR 1703) DICKINSON AVENUE (SR 1531) EVANS STREET (SR 1702)

## TIME RESTRICTIONS (CONT.)

### HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER. REFER TO LOCAL NOTES AND SPECIAL EVENTS, LISTED ON SHEET TMP-1B.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 AM DECEMBER 31<sup>st</sup> TO 7:00 PM JANUARY 2<sup>ND</sup>. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 PM THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 7:00 PM MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 7:00 PM TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE DAY AFTER INDEPENDENCE DAY.  
  
IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 7:00 PM TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 AM TUESDAY TO 7:00 PM MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- FOR HOME FOOTBALL GAMES AT DOWDY-FICKLEN STADIUM, FROM 12 HOURS PRIOR TO THE BEGINNING OF THE GAME UNTIL 12 HOURS FOLLOWING COMPLETION OF THE GAME.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
MEMORIAL DRIVE (US13/NC11) WATAUGA AVENUE FARMVILLE BOULEVARD LINE AVENUE BANCROFT AVENUE STANTONSBURG ROAD (SR 1467)	MONDAY 6:00 AM TO FRIDAY 9:00 PM SATURDAY AND SUNDAY 6:00 AM TO 9:00 PM

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

## LANE AND SHOULDER CLOSURE REQUIREMENTS

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

## PAVEMENT EDGE DROP OFF REQUIREMENTS

- BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.



BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

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

## TRAFFIC PATTERN ALTERATIONS

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

# Kimley»Horn

APPROVED: <u>Jason Pace</u> DATE: <u>11/17/2014</u>			<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
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## GENERAL NOTES (CONT.)

### SIGNING

- M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- N) PROVIDE PERMANENT SIGNING.
- O) PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTES AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- P) COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- R) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC BARRIER

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

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

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

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

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

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

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

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

### TRAFFIC CONTROL DEVICES

- U) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- V) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- W) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

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

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS	PAINT	TEMPORARY RAISED

- Y) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- Z) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- AA) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- BB) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.

### MISCELLANEOUS



- CC) LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.
- DD) ALL WHEELCHAIR RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- EE) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

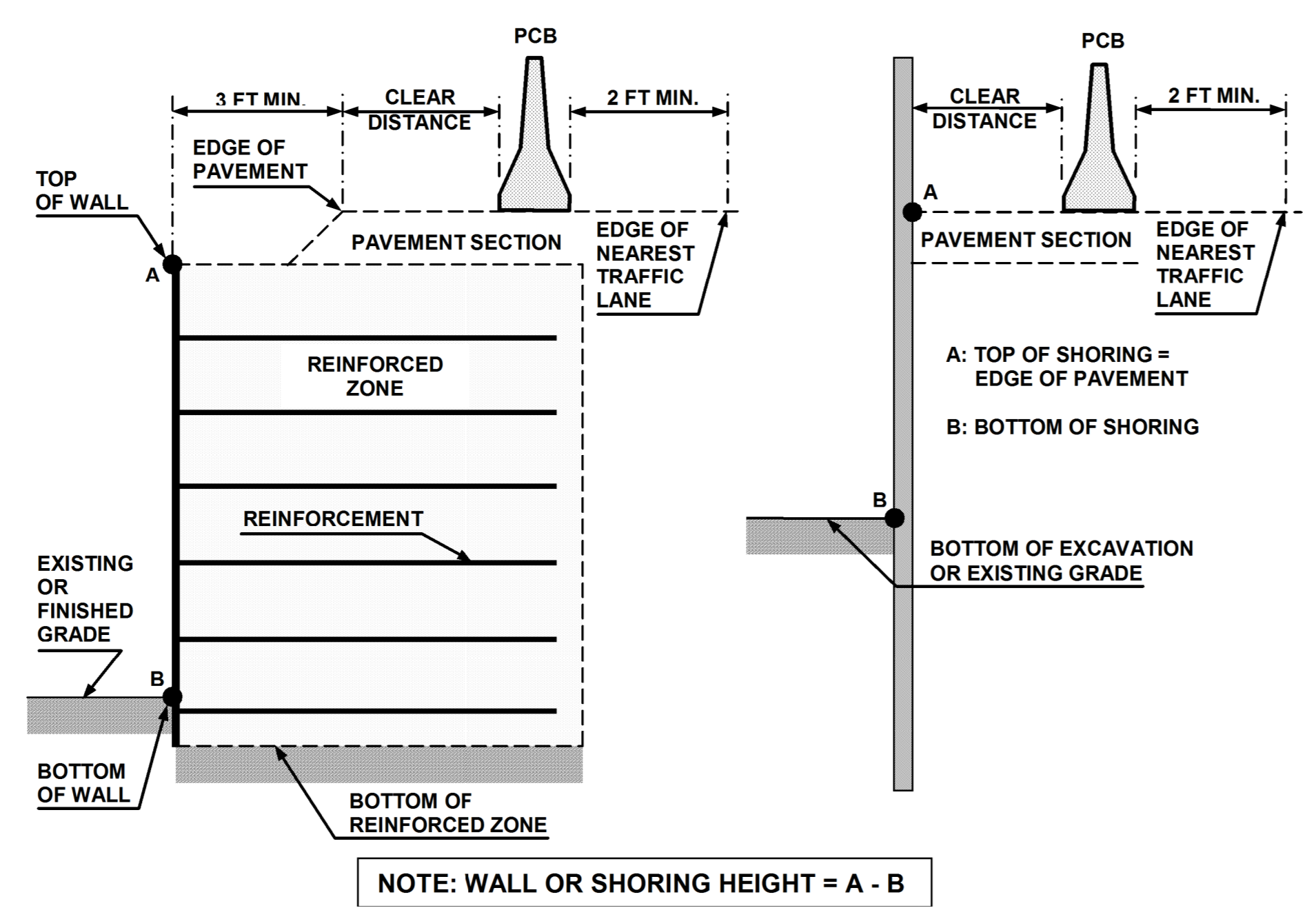
## LOCAL NOTES

1. EXISTING GREENVILLE AREA TRANSIT (G.R.E.A.T.) SERVICES MAY BE USED BY PEDESTRIANS DURING CONSTRUCTION IN ADDITION TO PEDESTRIAN DETOUR ROUTES. ROUTE 1 PROVIDES TRANSPORTATION THROUGH THE CONSTRUCTION AREA ALONG EVANS STREET, ROUTE 3 PROVIDES TRANSPORTATION THROUGH THE CONSTRUCTION AREA ALONG DICKINSON AVE, AND ROUTE 6 PROVIDES 1-WAY TRANSPORTATION THROUGH THE CONSTRUCTION AREA ALONG STANTONSBURG RD AND S MEMORIAL DR.  
  
COORDINATE WITH GREENVILLE AREA TRANSIT (252 329-4532) PRIOR TO AND DURING CONSTRUCTION REGARDING CONSTRUCTION IMPACTS TO ANY EXISTING ROUTES AND STOPS.
2. MAINTAIN EXISTING PEDESTRIAN ROUTES DURING CONSTRUCTION. AT ALL POSSIBLE TIMES, MAINTAIN EXISTING SIDEWALK UNTIL NEW SIDEWALK IS IN PLACE, USING SAFETY FENCE AS NEEDED TO KEEP PEDESTRIANS OUT OF THE WORK AREAS.

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**Kimley»Horn**

APPROVED: <u>Jason Pace</u> DATE: <u>11/3/2014</u>			<b>TRANSPORTATION OPERATIONS PLAN</b>
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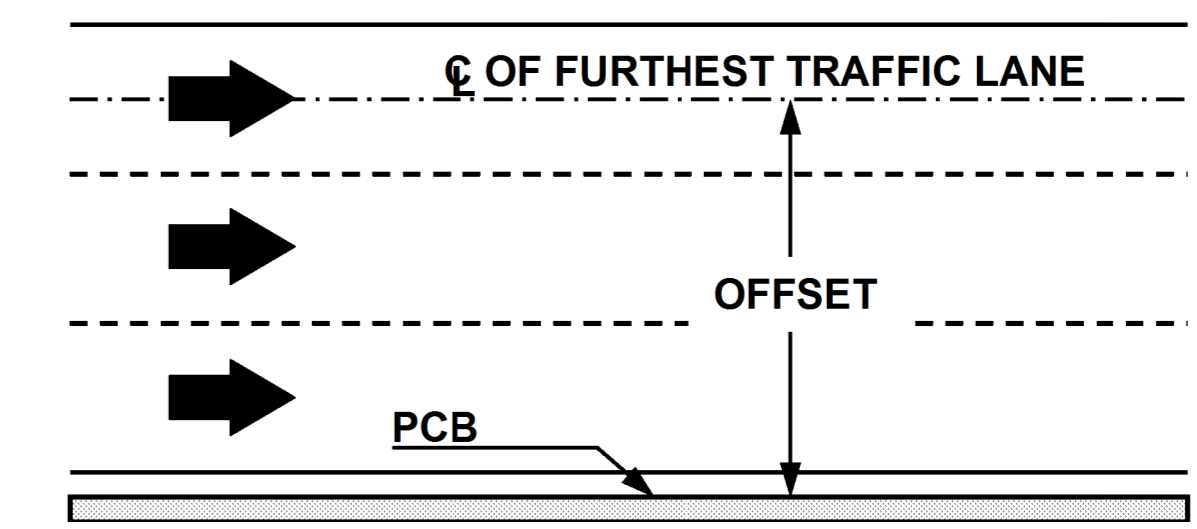
## FIGURE A

### NOTES

- 1- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- 2- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).
- 3- PCB IS REQUIRED IF TEMPORARY SHORING IS LOCATED WITHIN THE CLEAR ZONE IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT UNIT FOR APPLICABLE PAVEMENT DESIGN).
- 4- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED OR ANCHORED PCB FROM THE TABLE SHOWN IN FIGURE B. CLEAR DISTANCE IS DEFINED AS SHOWN IN FIGURE A AND OFFSET IS DEFINED AS SHOWN IN FIGURE B.
- 5- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET PCB NEXT TO AND UP AGAINST THE TRAFFIC SIDE OF THE TEMPORARY SHORING EXCEPT FOR BARRIER ABOVE TEMPORARY WALLS. PCB WITH THE MINIMUM REQUIRED CLEAR DISTANCE IS REQUIRED ABOVE TEMPORARY WALLS.
- 6- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- 7- PCB REQUIREMENTS FOR TEMPORARY WALLS APPLY TO TEMPORARY MECHANICALLY STABILIZED EARTH (MSE) WALLS AND TEMPORARY SOIL NAIL WALLS.
- 8- SET PCB WITH A MINIMUM HORIZONTAL DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A UNLESS OTHERWISE SHOWN IN THE PLANS AND OR AS APPROVED BY THE ENGINEER.
- 9- FOR PCB ABOVE AND BEHIND TEMPORARY WALLS, PROVIDE A MINIMUM DISTANCE OF 3 FT BETWEEN THE EDGE OF PAVEMENT AND THE WALL FACE AS SHOWN IN FIGURE A. IF THESE MINIMUM REQUIRED DISTANCES ARE NOT AVAILABLE, CONTACT THE ENGINEER.
- 10- TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS. BARRIER DEFLECTIONS AND RESULTING MINIMUM REQUIRED CLEAR DISTANCES MIGHT VARY SIGNIFICANTLY FOR LARGER HEAVIER VEHICLES, RUNS OF BARRIER LESS THAN 200 FT IN LENGTH AND WET OR DRY PAVEMENT.

MINIMUM REQUIRED CLEAR DISTANCE, inches								
Barrier Type	Pavement Type	Offset * ft	Design Speed, mph					
			<30	31-40	41-50	51-60	61-70	71-80
Unanchored PCB	Asphalt	<8	24	26	29	32	36	40
		8-14	26	28	31	35	38	42
		14-20	27	29	34	36	39	43
		20-26	28	31	35	38	40	44
		26-32	29	32	36	39	42	45
		32-38	30	34	38	41	43	46
		38-44	31	34	41	43	45	48
		44-50	31	35	41	43	46	49
		50-56	32	36	42	44	47	50
	>56	32	36	42	45	47	51	
	Concrete	<8	17	18	21	22	25	26
		8-14	19	20	23	25	26	29
		14-20	22	22	24	26	28	31
		20-26	23	24	26	27	30	34
		26-32	24	25	27	28	32	35
		32-38	24	26	27	30	33	36
		38-44	25	26	28	30	34	37
		44-50	26	26	28	32	35	37
50-56		26	26	28	32	35	38	
>56	26	27	29	32	36	38		
Anchored PCB	Asphalt	All Offsets	24 for All Design Speeds					
Anchored PCB	Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds					

\* See Figure Below



## FIGURE B

# Kimley»Horn

APPROVED: <u>Jason Pace</u> DATE: <u>11/17/2014</u>			PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
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# TEMPORARY SHORING NOTES

**TEMPORARY SHORING #1:**

**FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.**

**DESIGN TEMPORARY SHORING FROM STATION 21+05 +/- -Y1- TO 25+52 +/- -Y1- , 52.5 FT. LT TO 37.5 FT. LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS:**

**UNIT WEIGHT OF SOIL ABOVE WATER TABLE, GAMMA= 120 PCF**

**UNIT WEIGHT OF SOIL BELOW WATER TABLE, GAMMA = 60 PCF**

**FRICTION ANGLE, f= 30**

**COHESION, c = 0 PSF**

**GROUNDWATER ELEVATION = 68 FT. +/-**

**BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.**

**LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 21+05 +/- -Y1- TO 25+52 +/- -Y1- , 52.5 FT. LT TO 37.5 FT. LT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.**

**AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION 21+05 +/- -Y1- TO 25+52 +/- -Y1- , 52.5 FT. LT TO 37.5 FT. LT. SEE STANDARD DRAWING NO. 1801.01 FOR STANDARD TEMPORARY SHORING.**

**TEMPORARY SHORING #2:**

**FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.**

**DESIGN TEMPORARY SHORING FROM STATION 22+26 +/- -Y1- TO 25+52 +/- -Y1- , 53 FT. LT TO 47.5 FT. LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS:**

**UNIT WEIGHT OF SOIL ABOVE WATER TABLE, GAMMA= 120 PCF**

**UNIT WEIGHT OF SOIL BELOW WATER TABLE, GAMMA = 60 PCF**

**FRICTION ANGLE, f= 30**

**COHESION, c = 0 PSF**

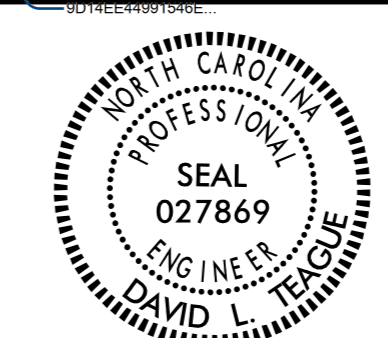
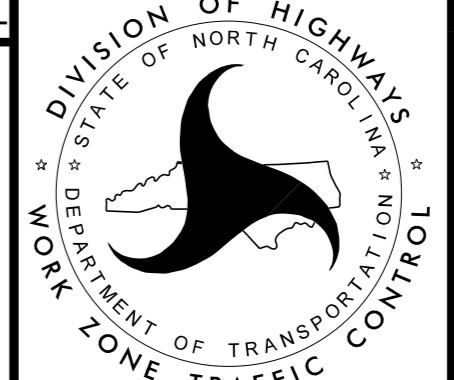
**GROUNDWATER ELEVATION = 68 FT. +/-**

**BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.**

**LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 22+26 +/- -Y1- TO 25+52 +/- -Y1- , 53 FT. LT TO 47.5 FT. LT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.**

**AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION 22+26 +/- -Y1- TO 25+52 +/- -Y1- , 53 FT. LT TO 47.5 FT. LT. SEE STANDARD DRAWING NO. 1801.01 FOR STANDARD TEMPORARY SHORING.**

5/12/2015 \$FILEL\$

APPROVED: <i>David L. Tramm</i> DATE: 5/12/2015 		<h2 style="margin: 0;">TEMPORARY SHORING DATA</h2>
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# CONSTRUCTION PHASING

## PHASE 1

**STEP 1**  
PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL WORK ZONE ADVANCE WARNING SIGNS AS SHOWN ON RSD. 1101.01.

THE CLOSURE OF FIFTH STREET SHALL NOT EXCEED A PERIOD OF 30 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

**STEP 2**  
INSTALL CMS AND DETOUR SIGNS AND CLOSE 5TH STREET AS SHOWN ON TMP-37. COMPLETE ROADWAY CONSTRUCTION AND INSTALL 60" RCP AS SHOWN ON THE ROADWAY PLANS. UPON COMPLETION REOPEN 5TH STREET TO TRAFFIC.

**STEP 3**  
INSTALL DETOUR SIGNS AND CLOSE MYRTLE STREET AND PENNSYLVANIA AVENUE AS SHOWN ON TMP-32.

CLOSE SPRUCE STREET, COLUMBIA AVENUE, CLARK STREET AND CHESTNUT STREET AS SHOWN ON TMP-7 THRU TMP-9.

BEGIN WORK ON NEW LOCATION -L- TENTH STREET FROM EAST OF 14TH STREET TO WEST OF DICKINSON AVENUE AS SHOWN ON TMP-7 THRU TMP-9.

NOTE: PHASE 1, STEPS 2 THRU 4A MAY BE PERFORMED CONCURRENTLY.

**STEP 4**  
USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-4 THRU TMP-7A, TMP-12, TMP-13:

- INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNALS AT THE STANTONSBURG/MEMORIAL, FARMVILLE/BANCROFT, AND FARMVILLE/ 14TH STREET INTERSECTIONS. ACTIVATE THE TEMPORARY SIGNALS.
- INSTALL DETOUR SIGNS AND CLOSE PARIS AVENUE AND RALEIGH AVENUE AS SHOWN ON TMP-33 AND COMPLETE ASSOCIATED CONSTRUCTION.
- INSTALL TEMPORARY SIDEWALK ALONG 14TH STREET.

BEGIN CONSTRUCTION AS SHOWN ON TMP-4 THRU TMP-7A, TMP-12, AND TMP-13.

COMPLETE THE WORK OF STEP 4A IN 30 CONSECUTIVE CALENDER DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

**STEP 4A**  
INSTALL PCB, CRASH CUSHION, AND TEMPORARY SHORING ALONG MEMORIAL DR. AS SHOWN ON TMP-5 AND 12.

NOTE: SEQUENCE THE INSTALLATION OF PCB AND SHORING SUCH THAT A MINIMUM OF ONE DRIVEWAY ACCESS IS MAINTAINED FOR THE HESS GAS STATION AND ONE DRIVEWAY ACCESS IS MAINTAINED FOR THE COOKOUT RESTAURANT AT ALL TIMES.

INSTALL DRAINAGE STRUCTURES AND RCP BETWEEN STR. NO. 1210 AND NO. 0519.

REMOVE TEMPORARY SHORING AND PCB.

**STEP 5**  
UPON COMPLETION OF 5TH STREET WORK, INSTALL DETOUR SIGNS AND CLOSE TENTH STREET AS SHOWN ON TMP-30.

BEGIN WORK ON -L- TENTH STREET FROM EAST OF DICKINSON AVENUE TO WEST OF EVANS STREET AS SHOWN ON TMP-9 THRU TMP-11.

THE CLOSURE OF DICKINSON AVENUE AND GRANDE AVENUE SHALL NOT EXCEED A PERIOD OF 45 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

**STEP 6**  
INSTALL DETOUR SIGNS AND CLOSE DICKINSON AVENUE/GRANDE AVENUE INTERSECTION AS SHOWN ON TMP-31.

AWAY FROM TRAFFIC AND MAINTAINING PEDESTRIANS AS SHOWN ON TMP-46, PERFORM THE FOLLOWING AS SHOWN ON TMP-9:  
 -COMPLETE REPLACEMENT OF DICKINSON AVENUE  
 -COMPLETE AT GRADE RAIL CROSSING AT INTERSECTION  
 - REMOVE SOUTHERN LEG OF GRANDE AVENUE  
 - UPON COMPLETION REOPEN DICKINSON AVENUE/GRANDE AVENUE TO TRAFFIC.

NOTE:  
PHASE 1, STEPS 5 THRU 7 MAY BE PERFORMED CONCURRENTLY.  
PHASE 1, STEPS 3 AND 5 MAY CONTINUE THROUGHOUT PHASE 1 AND PHASE 2.

## PHASE 1 (CONT'D)

**STEP 7**  
USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-11:

- INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNAL AT TENTH ST/ EVANS ST INTERSECTION.
- PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), REMOVE CONFLICTING MARKINGS, ACTIVATE SIGNALS, AND PLACE TRAFFIC ONTO NEW PATTERN.

COMPLETE CONSTRUCTION AS SHOWN ON TMP-4 THRU TMP-13.

NOTE:  
IN THE EVENT THAT DRAINAGE CONSTRUCTION CANNOT BE COMPLETED WHILE MAINTAINING TRAFFIC OR WITHIN GENERAL LANE CLOSURE TIME RESTRICTIONS, TEMPORARY NIGHTTIME ROAD CLOSURES SHALL BE USED IN ACCORDANCE WITH GENERAL NOTE C. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

## PHASE 2

NOTE: PHASE 1, STEPS 3 AND 4 MAY CONTINUE THROUGHOUT PHASE 2 CONSTRUCTION.

USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-14 THRU TMP-23:

- STEP 1:**
- INSTALL TEMPORARY SIGNALS AND TRAFFIC CONTROL DEVICES.
  - PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), REMOVE CONFLICTING MARKINGS, ACTIVATE SIGNALS, AND PLACE TRAFFIC ONTO NEW PATTERN.

**STEP 2:**  
COMPLETE CONSTRUCTION AS SHOWN ON TMP-14 THRU TMP-23. IN THE EVENT THAT DRAINAGE CONSTRUCTION CANNOT BE COMPLETED WHILE MAINTAINING TRAFFIC OR WITHIN GENERAL LANE CLOSURE TIME RESTRICTIONS, TEMPORARY NIGHTTIME ROAD CLOSURES SHALL BE USED IN ACCORDANCE WITH GENERAL NOTE C. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.


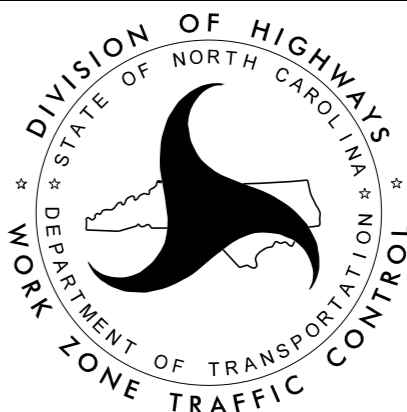
THE CLOSURE OF DICKINSON AVENUE AND GRANDE AVENUE SHALL NOT EXCEED A PERIOD OF 15 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 3:**
- INSTALL DETOUR SIGNS AND CLOSE THE DICKINSON AVENUE/GRANDE AVENUE INTERSECTION
  - INSTALL GIRDERS ON THE NEW BRIDGE OVER INTERSECTION
  - UPON COMPLETION REOPEN DICKINSON AVENUE/GRANDE AVENUE TO TRAFFIC.

NOTE: PHASE 2, STEPS 2 AND 3 MAY BE PERFORMED CONCURRENTLY.

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# Kimley»Horn

APPROVED: <u>Jason Pace</u> DATE: <u>11/17/2014</u>			<h2 style="margin: 0;">PHASING</h2>
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# CONSTRUCTION PHASING

## PHASE 1

**STEP 1**  
PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL WORK ZONE ADVANCE WARNING SIGNS AS SHOWN ON RSD. 1101.01.

THE CLOSURE OF FIFTH STREET SHALL NOT EXCEED A PERIOD OF 30 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

**STEP 2**  
INSTALL CMS AND DETOUR SIGNS AND CLOSE 5TH STREET AS SHOWN ON TMP-37. COMPLETE ROADWAY CONSTRUCTION AND INSTALL 60" RCP AS SHOWN ON THE ROADWAY PLANS. UPON COMPLETION REOPEN 5TH STREET TO TRAFFIC.

**STEP 3**  
INSTALL DETOUR SIGNS AND CLOSE MYRTLE STREET AND PENNSYLVANIA AVENUE AS SHOWN ON TMP-32.

CLOSE SPRUCE STREET, COLUMBIA AVENUE, CLARK STREET AND CHESTNUT STREET AS SHOWN ON TMP-7 THRU TMP-9.

BEGIN WORK ON NEW LOCATION -L- TENTH STREET FROM EAST OF 14TH STREET TO WEST OF DICKINSON AVENUE AS SHOWN ON TMP-7 THRU TMP-9.

NOTE: PHASE 1, STEPS 2 THRU 4A MAY BE PERFORMED CONCURRENTLY.

**STEP 4**  
USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-4 THRU TMP-7A, TMP-12, TMP-13:

- INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNALS AT THE STANTONSBURG/MEMORIAL, FARMVILLE/BANCROFT, AND FARMVILLE/ 14TH STREET INTERSECTIONS. ACTIVATE THE TEMPORARY SIGNALS.
- INSTALL DETOUR SIGNS AND CLOSE PARIS AVENUE AND RALEIGH AVENUE AS SHOWN ON TMP-33 AND COMPLETE ASSOCIATED CONSTRUCTION.
- INSTALL TEMPORARY SIDEWALK ALONG 14TH STREET.

BEGIN CONSTRUCTION AS SHOWN ON TMP-4 THRU TMP-7A, TMP-12, AND TMP-13.

COMPLETE THE WORK OF STEP 4A IN 60 CONSECUTIVE CALENDER DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

**STEP 4A**  
INSTALL PCB, CRASH CUSHION, AND TEMPORARY SHORING ALONG MEMORIAL DR. AS SHOWN ON TMP-5 AND 12.

NOTE: SEQUENCE THE INSTALLATION OF PCB AND SHORING SUCH THAT A MINIMUM OF ONE DRIVEWAY ACCESS IS MAINTAINED FOR THE HESS GAS STATION AND ONE DRIVEWAY ACCESS IS MAINTAINED FOR THE COOKOUT RESTAURANT AT ALL TIMES.

INSTALL DRAINAGE STRUCTURES AND RCP BETWEEN STR. NO. 1210 AND NO. 0517.

REMOVE TEMPORARY SHORING AND PCB.

**STEP 5**  
UPON COMPLETION OF 5TH STREET WORK, INSTALL DETOUR SIGNS AND CLOSE TENTH STREET AS SHOWN ON TMP-30.

BEGIN WORK ON -L- TENTH STREET FROM EAST OF DICKINSON AVENUE TO WEST OF EVANS STREET AS SHOWN ON TMP-9 THRU TMP-11.

THE CLOSURE OF DICKINSON AVENUE AND GRANDE AVENUE SHALL NOT EXCEED A PERIOD OF 45 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

**STEP 6**  
INSTALL DETOUR SIGNS AND CLOSE DICKINSON AVENUE/GRANDE AVENUE INTERSECTION AS SHOWN ON TMP-31.

AWAY FROM TRAFFIC AND MAINTAINING PEDESTRIANS AS SHOWN ON TMP-46, PERFORM THE FOLLOWING AS SHOWN ON TMP-9:  
 -COMPLETE REPLACEMENT OF DICKINSON AVENUE  
 -COMPLETE AT GRADE RAIL CROSSING AT INTERSECTION  
 - REMOVE SOUTHERN LEG OF GRANDE AVENUE  
 - UPON COMPLETION REOPEN DICKINSON AVENUE/GRANDE AVENUE TO TRAFFIC.

NOTE:  
PHASE 1, STEPS 5 THRU 7 MAY BE PERFORMED CONCURRENTLY.  
PHASE 1, STEPS 3 AND 5 MAY CONTINUE THROUGHOUT PHASE 1 AND PHASE 2.

## PHASE 1 (CONT'D)

**STEP 7**  
USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-11:

- INSTALL TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNAL AT TENTH ST/ EVANS ST INTERSECTION.
- PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), REMOVE CONFLICTING MARKINGS, ACTIVATE SIGNALS, AND PLACE TRAFFIC ONTO NEW PATTERN.

COMPLETE CONSTRUCTION AS SHOWN ON TMP-4 THRU TMP-13.

NOTE:  
IN THE EVENT THAT DRAINAGE CONSTRUCTION CANNOT BE COMPLETED WHILE MAINTAINING TRAFFIC OR WITHIN GENERAL LANE CLOSURE TIME RESTRICTIONS, TEMPORARY NIGHTTIME ROAD CLOSURES SHALL BE USED IN ACCORDANCE WITH GENERAL NOTE C. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

## PHASE 2

NOTE: PHASE 1, STEPS 3 AND 4 MAY CONTINUE THROUGHOUT PHASE 2 CONSTRUCTION.

USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-14 THRU TMP-23:

- STEP 1:**
- INSTALL TEMPORARY SIGNALS AND TRAFFIC CONTROL DEVICES.
  - PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), REMOVE CONFLICTING MARKINGS, ACTIVATE SIGNALS, AND PLACE TRAFFIC ONTO NEW PATTERN.

**STEP 2:**  
COMPLETE CONSTRUCTION AS SHOWN ON TMP-14 THRU TMP-23. IN THE EVENT THAT DRAINAGE CONSTRUCTION CANNOT BE COMPLETED WHILE MAINTAINING TRAFFIC OR WITHIN GENERAL LANE CLOSURE TIME RESTRICTIONS, TEMPORARY NIGHTTIME ROAD CLOSURES SHALL BE USED IN ACCORDANCE WITH GENERAL NOTE C. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

THE CLOSURE OF DICKINSON AVENUE AND GRANDE AVENUE SHALL NOT EXCEED A PERIOD OF 15 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 3:**
- INSTALL DETOUR SIGNS AND CLOSE THE DICKINSON AVENUE/GRANDE AVENUE INTERSECTION
  - INSTALL GIRDERS ON THE NEW BRIDGE OVER INTERSECTION
  - UPON COMPLETION REOPEN DICKINSON AVENUE/GRANDE AVENUE TO TRAFFIC.

NOTE: PHASE 2, STEPS 2 AND 3 MAY BE PERFORMED CONCURRENTLY.

## PHASE 3

USING RSD 1101.02 SHEETS 1, 3, AND 8 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON TMP-24 THRU TMP-29:

- STEP 1:**
- INSTALL TEMPORARY SIGNALS AND TRAFFIC CONTROL DEVICES.
  - PLACE TEMPORARY PAVEMENT MARKINGS (PAINT), REMOVE CONFLICTING MARKINGS, ACTIVATE SIGNALS, AND PLACE TRAFFIC ONTO NEW PATTERN.


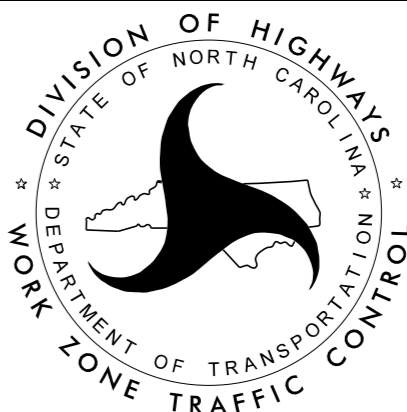
**STEP 2:**  
COMPLETE THE MEDIAN CONSTRUCTION AS SHOWN ON THE PLANS.

- STEP 3:**
- INSTALL FINAL SIGNALS AND MAINTAIN TEMPORARY SIGNALS.
  - PLACE FINAL LAYER OF ASPHALT, FINAL PAVEMENT MARKINGS AND SIGNS AS SHOWN ON THE PAVEMENT MARKING AND SIGNING PLANS.

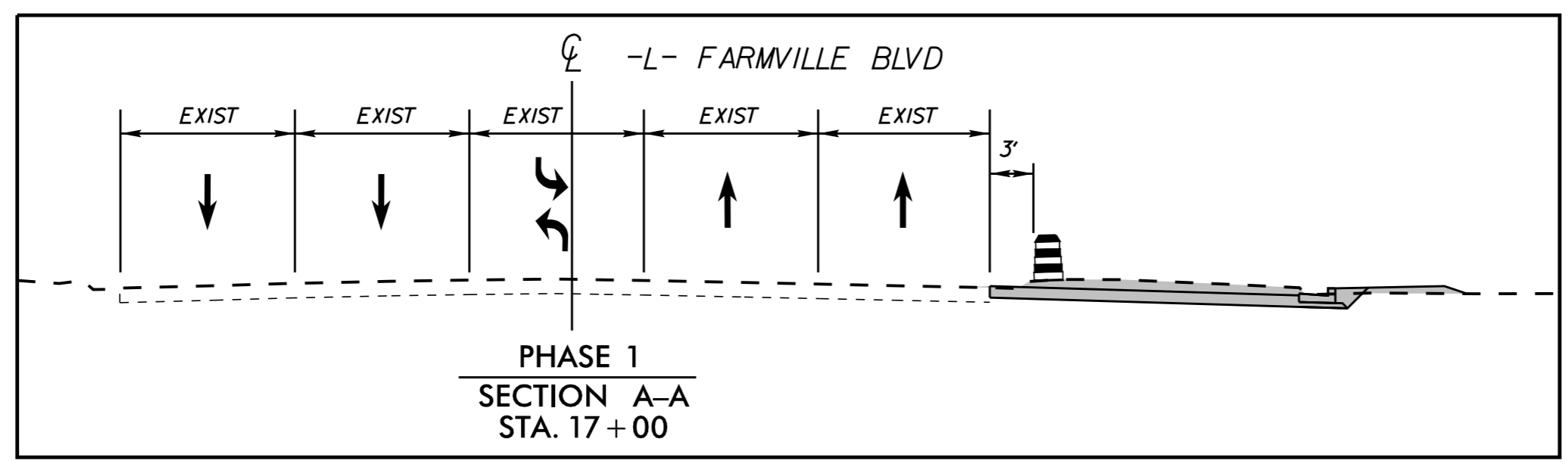
- STEP 4:**
- ACTIVATE FINAL SIGNALS AND PLACE TRAFFIC ONTO FINAL PATTERN.
  - OPEN ALL LANES TO TRAFFIC AND REMOVE ALL TRAFFIC CONTROL DEVICES.

8/10/2015 \$FILEL\$

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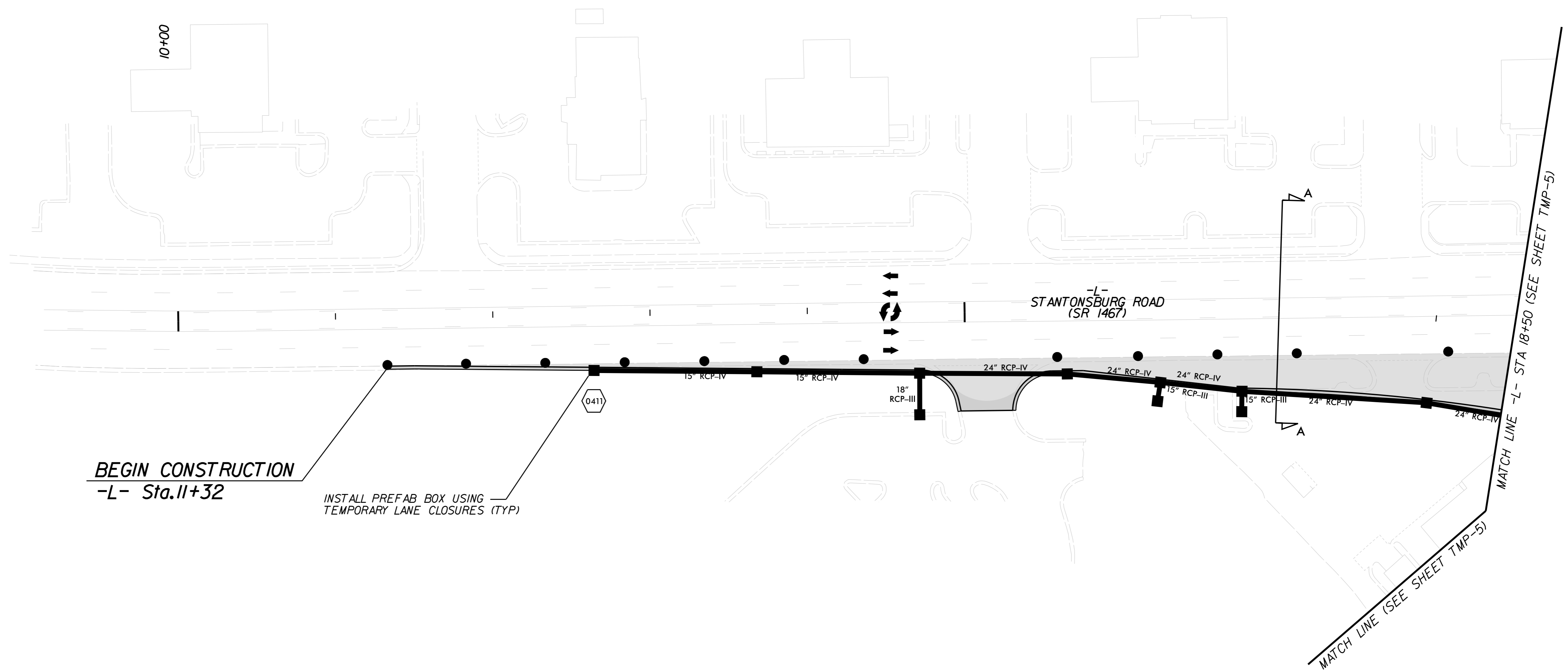
APPROVED: <u>Jason Pace</u> DATE: <u>8/10/2015</u>			<h2 style="font-size: 2em; margin: 0;">PHASING</h2>
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NAD 83/NSRS 2007

15+00



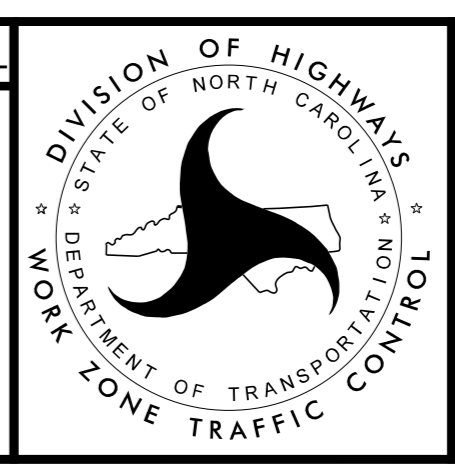
BEGIN CONSTRUCTION  
-L- Sta. 11+32

INSTALL PREFAB BOX USING  
TEMPORARY LANE CLOSURES (TYP)

\$FILEL\$  
11/5/2014

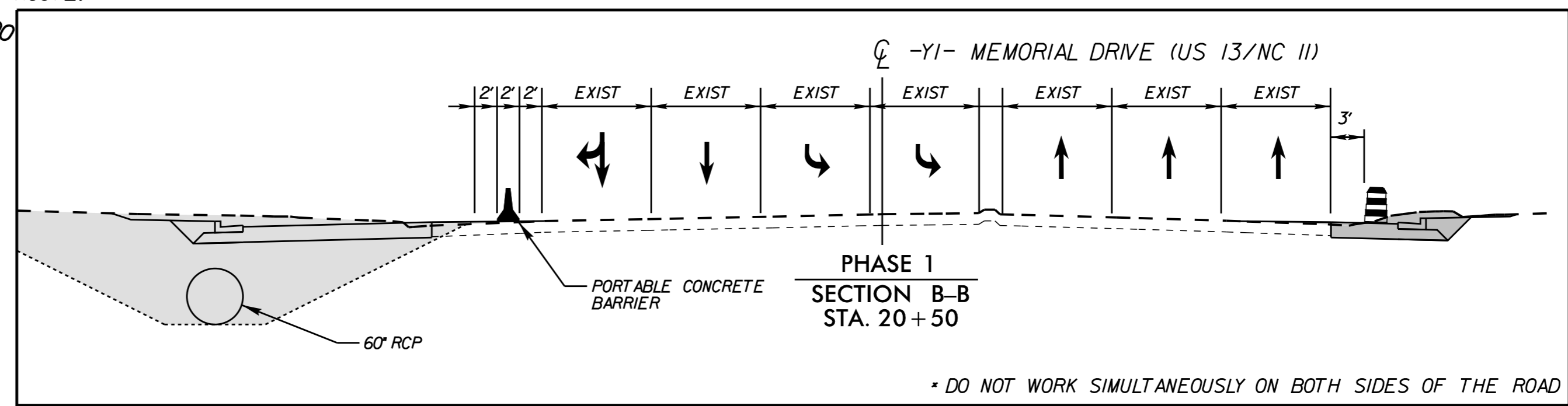
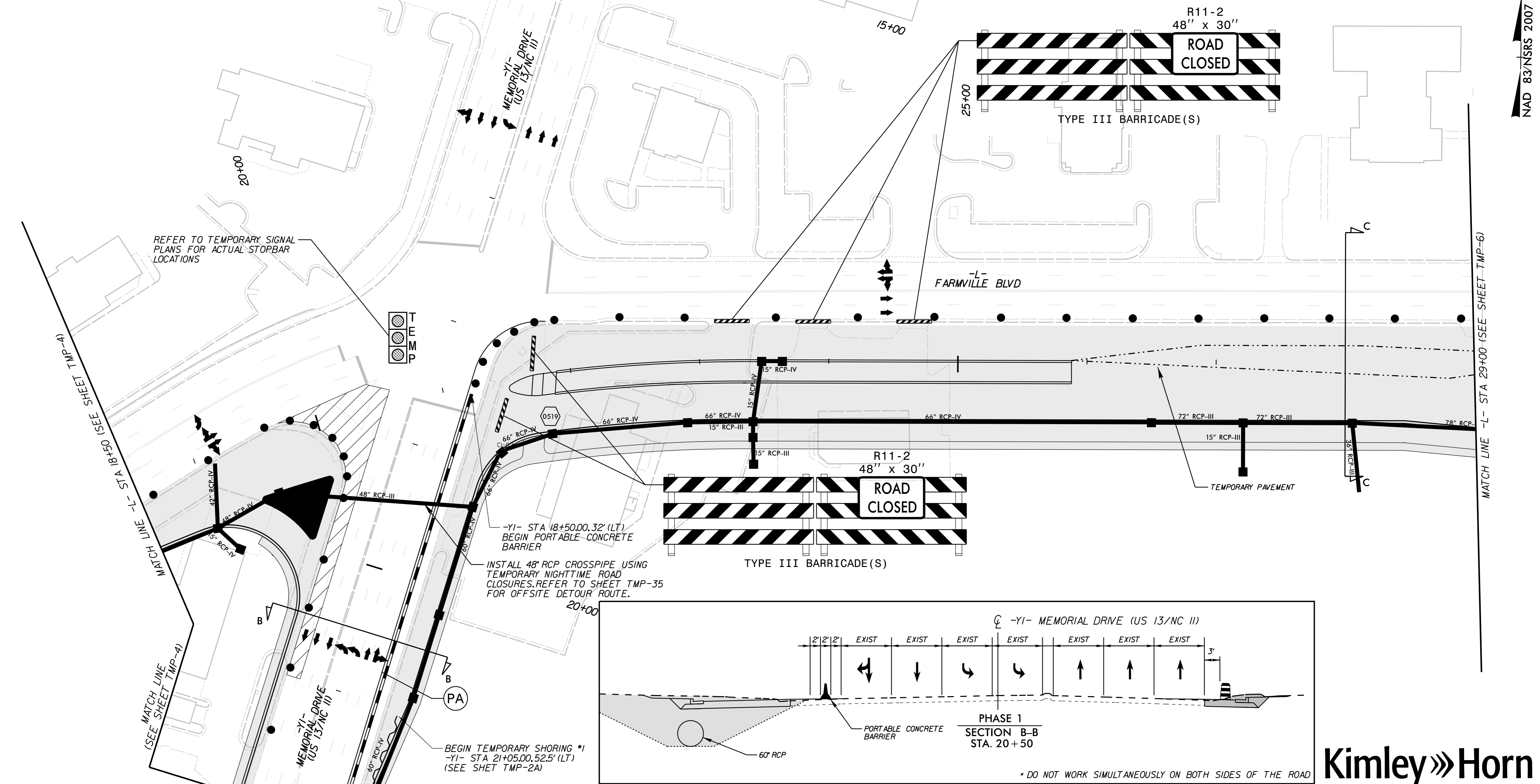
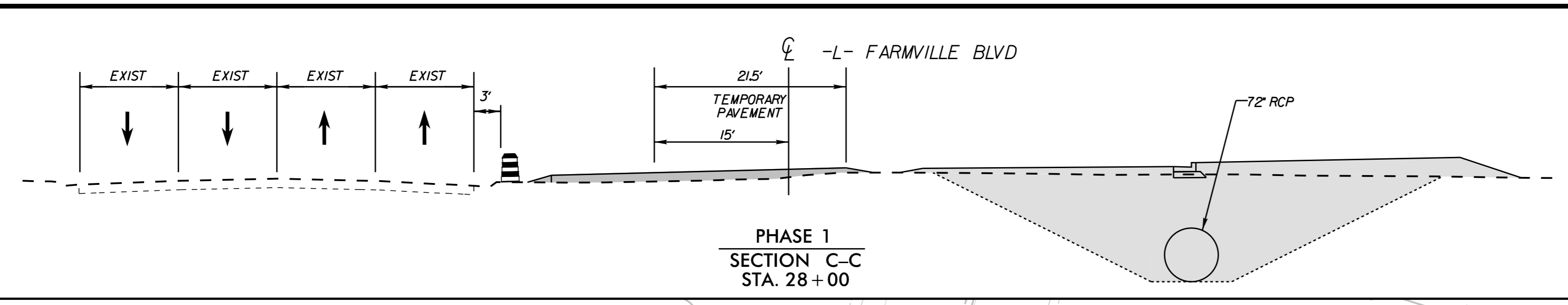
- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/27/2014



**Kimley»Horn**

**TRAFFIC CONTROL  
PHASE 1**

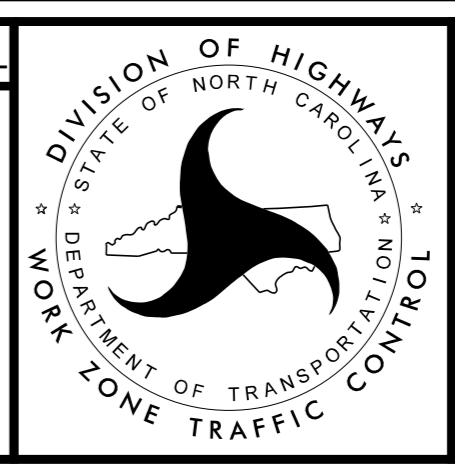


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NAD 83/NSRS 2007

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

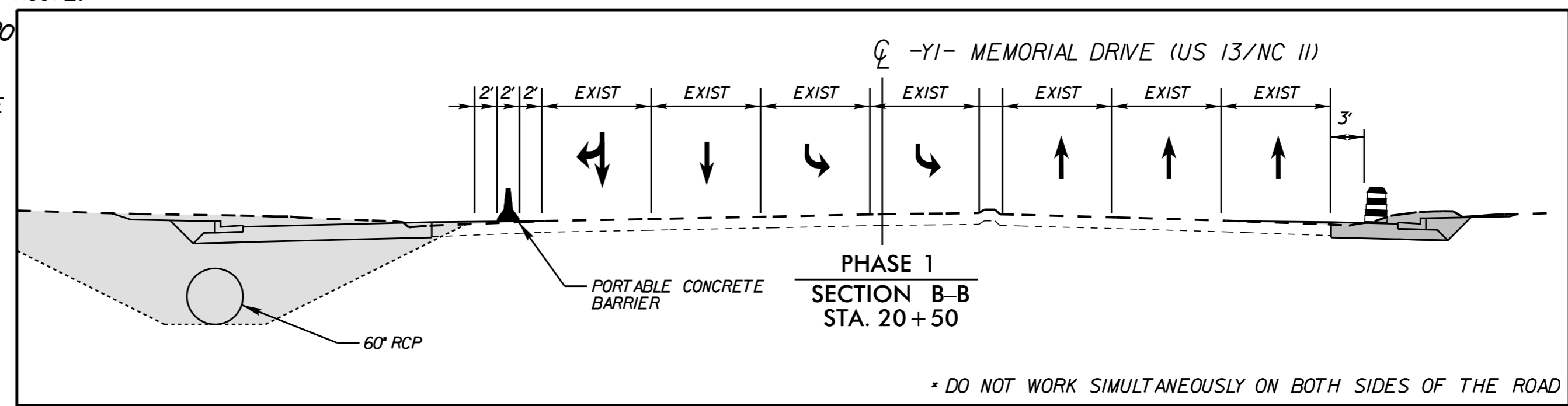
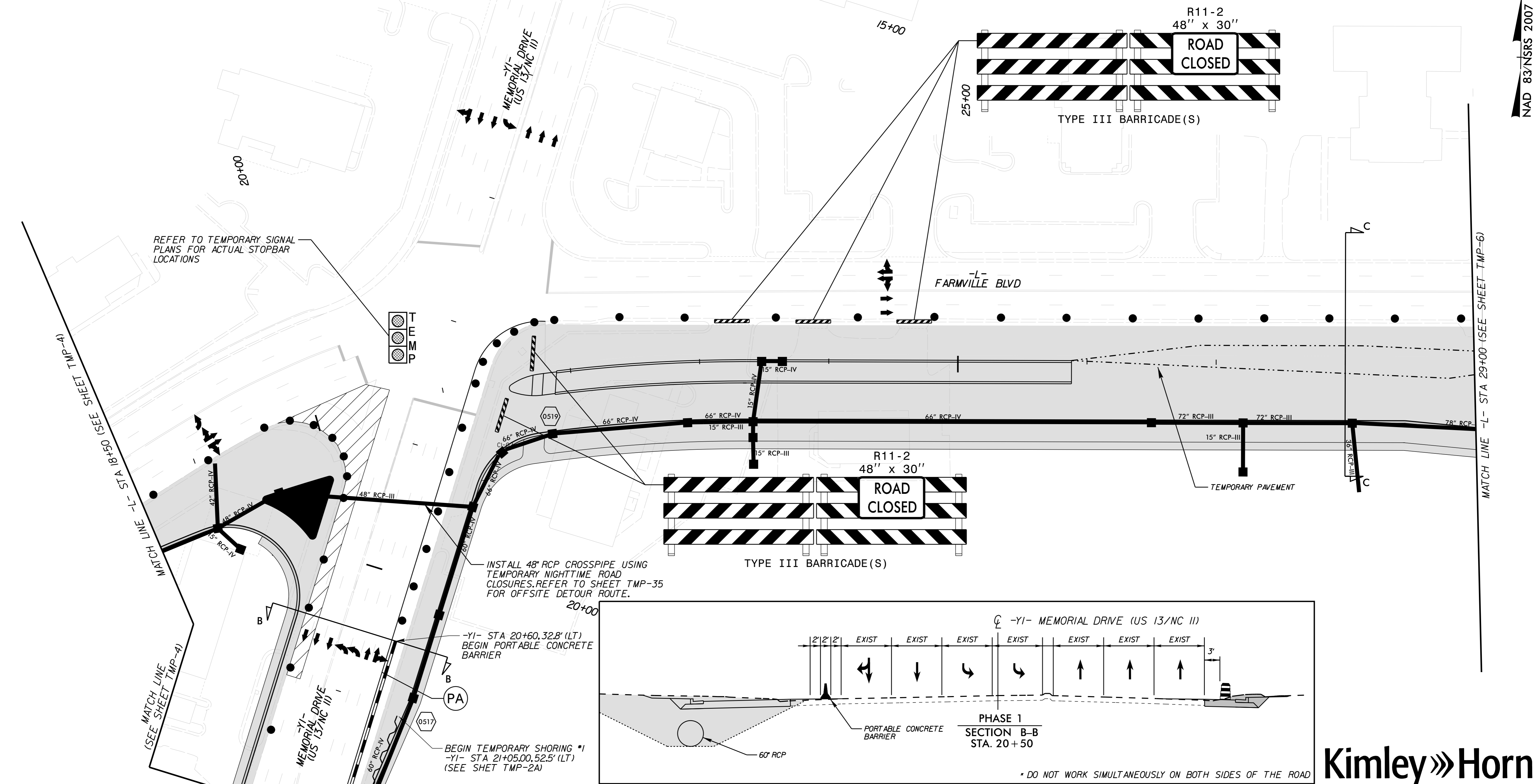
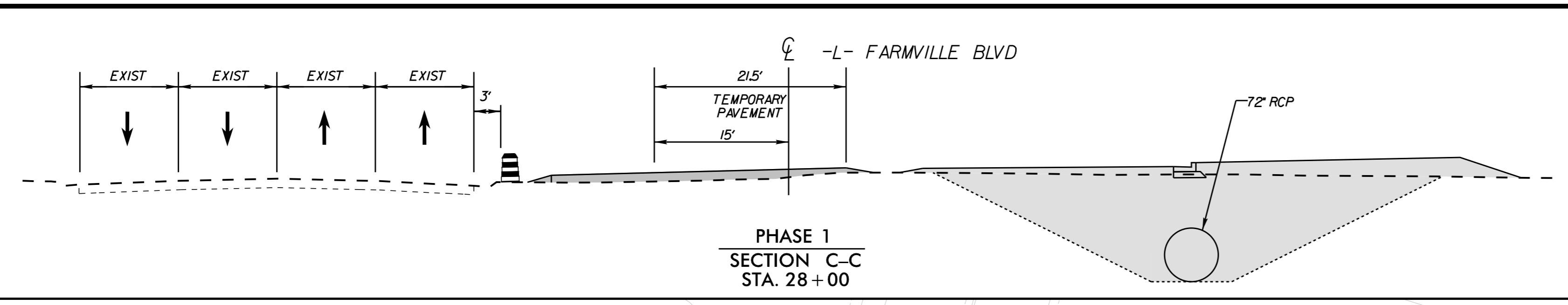
APPROVED: Jason Pace DATE: 11/17/2014



# Kimley»Horn

## TRAFFIC CONTROL PHASE 1

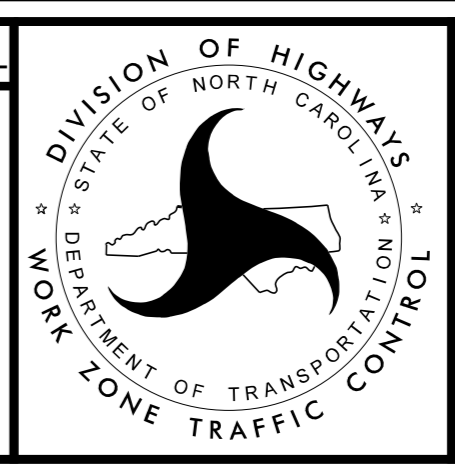
\* DO NOT WORK SIMULTANEOUSLY ON BOTH SIDES OF THE ROAD



- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: *Jason Dece* DATE: 10/2015

NORTH CAROLINA PROFESSIONAL SEAL 033167 ENGINEER JAMES J. PACE

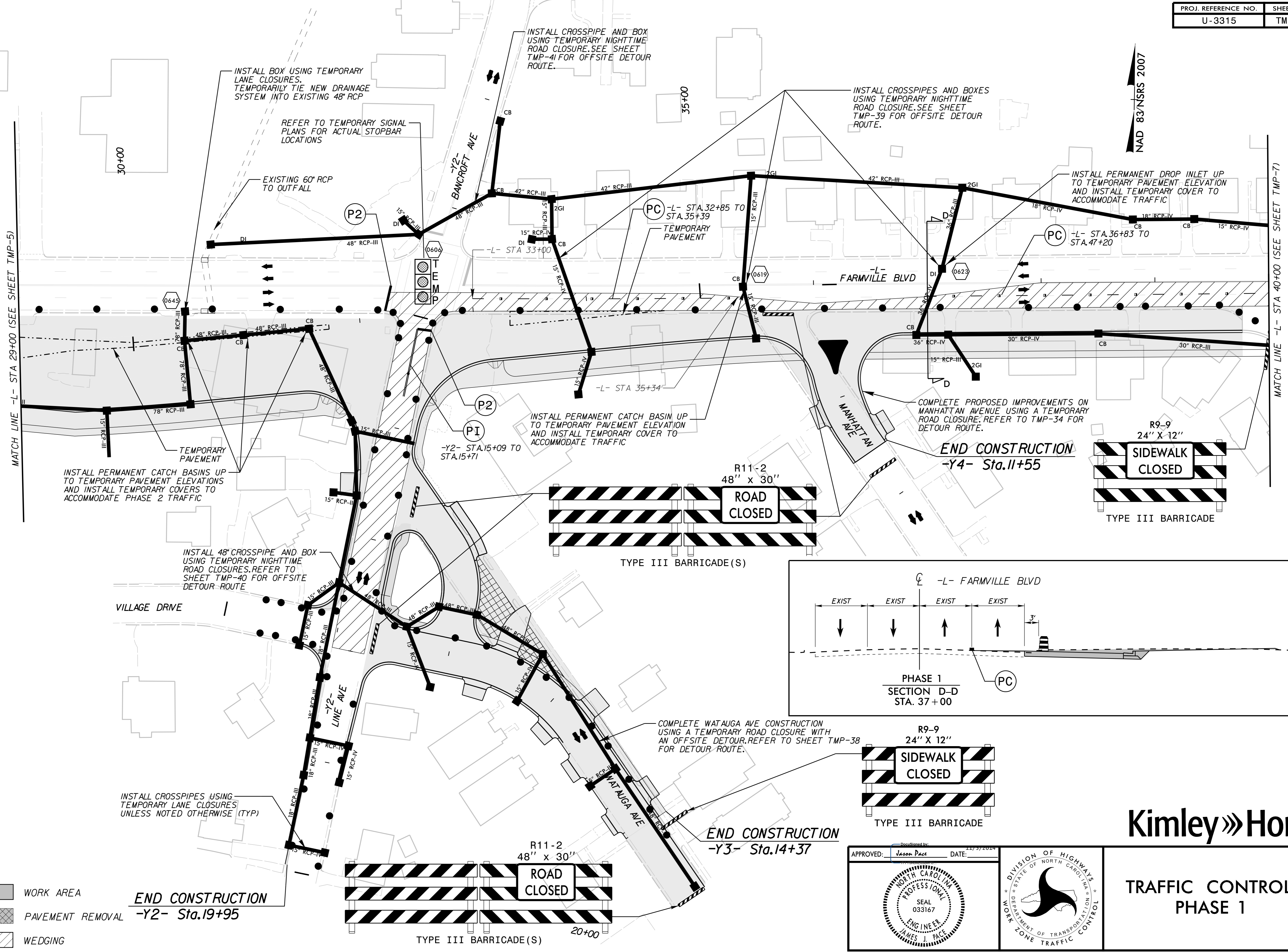


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TRAFFIC CONTROL PHASE 1

8/10/2015 \$FILEL\$

NAD 83/NSRS 2007



MATCH LINE -L- STA 29+00 (SEE SHEET TMP-5)

MATCH LINE -L- STA 40+00 (SEE SHEET TMP-7)

INSTALL PERMANENT CATCH BASINS UP TO TEMPORARY PAVEMENT ELEVATIONS AND INSTALL TEMPORARY COVERS TO ACCOMMODATE PHASE 2 TRAFFIC

INSTALL 48" CROSSPIPE AND BOX USING TEMPORARY NIGHTTIME ROAD CLOSURES. REFER TO SHEET TMP-40 FOR OFFSITE DETOUR ROUTE

INSTALL CROSSPIPES USING TEMPORARY LANE CLOSURES UNLESS NOTED OTHERWISE (TYP)

INSTALL BOX USING TEMPORARY LANE CLOSURES. TEMPORARILY TIE NEW DRAINAGE SYSTEM INTO EXISTING 48" RCP

REFER TO TEMPORARY SIGNAL PLANS FOR ACTUAL STOPBAR LOCATIONS

EXISTING 60" RCP TO OUTFALL

INSTALL PERMANENT CATCH BASIN UP TO TEMPORARY PAVEMENT ELEVATION AND INSTALL TEMPORARY COVER TO ACCOMMODATE TRAFFIC

INSTALL CROSSPIPE AND BOX USING TEMPORARY NIGHTTIME ROAD CLOSURE. SEE SHEET TMP-41 FOR OFFSITE DETOUR ROUTE.

INSTALL CROSSPIPES AND BOXES USING TEMPORARY NIGHTTIME ROAD CLOSURE. SEE SHEET TMP-39 FOR OFFSITE DETOUR ROUTE.

INSTALL PERMANENT DROP INLET UP TO TEMPORARY PAVEMENT ELEVATION AND INSTALL TEMPORARY COVER TO ACCOMMODATE TRAFFIC

COMPLETE PROPOSED IMPROVEMENTS ON MANHATTAN AVENUE USING A TEMPORARY ROAD CLOSURE. REFER TO TMP-34 FOR DETOUR ROUTE.

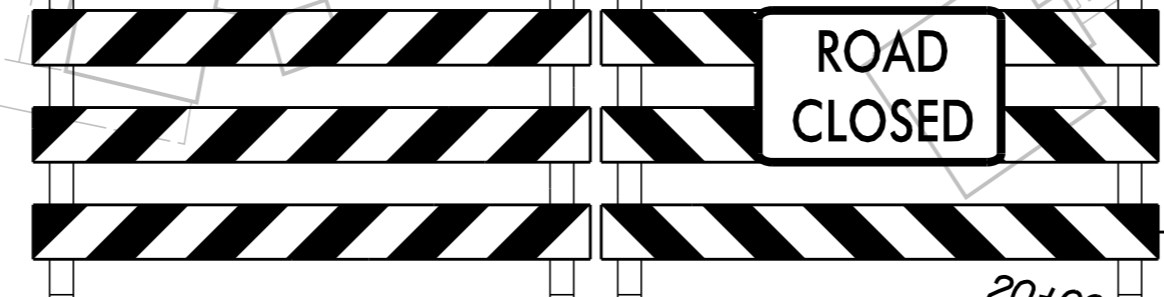
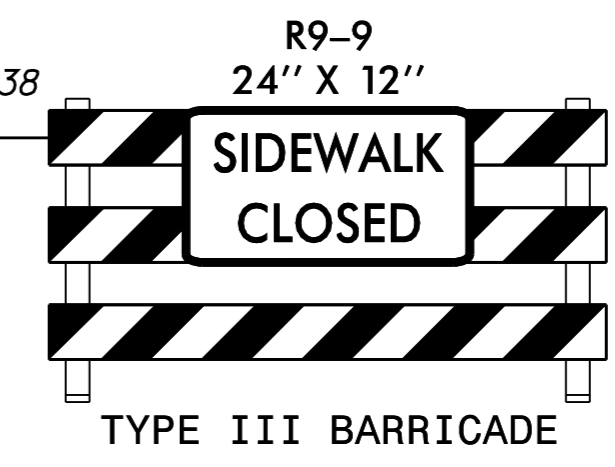
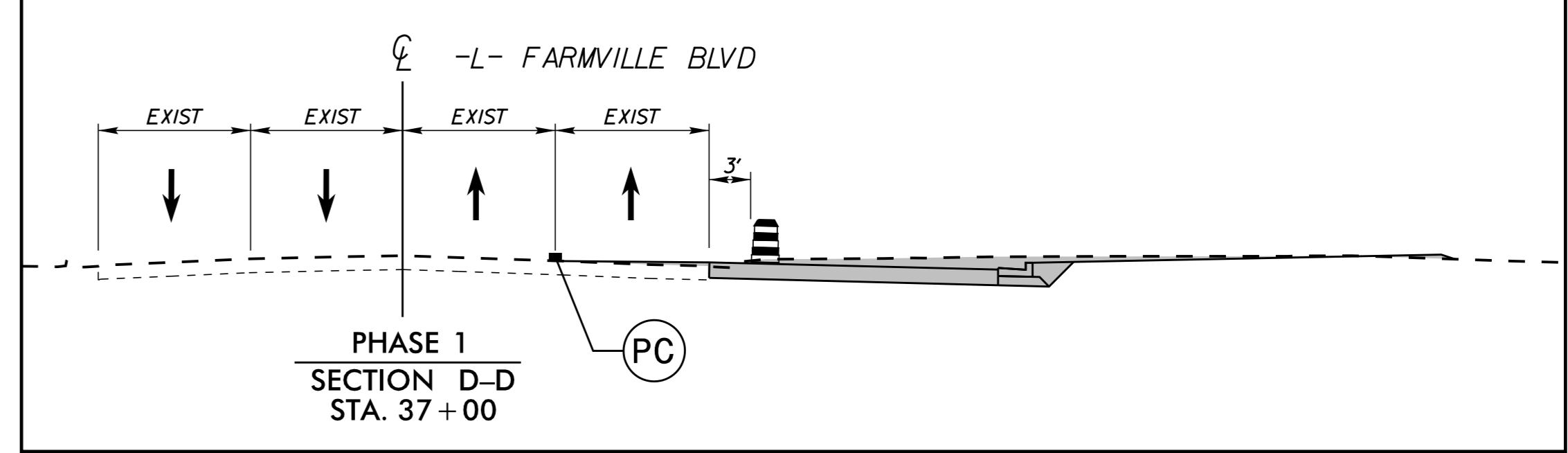
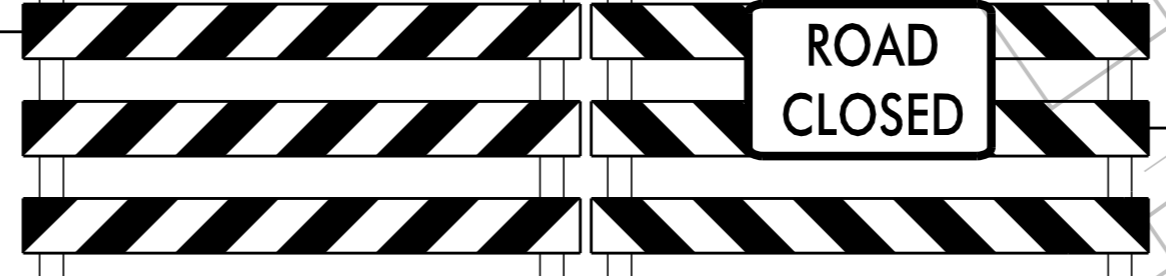
PC -L- STA. 32+85 TO STA. 35+39  
TEMPORARY PAVEMENT

PC -L- STA. 36+83 TO STA. 47+20

PI -Y2- STA. 15+09 TO STA. 15+71

R11-2  
48" X 30"

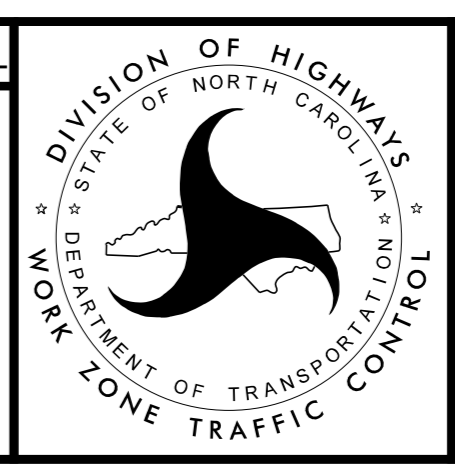
R9-9  
24" X 12"



- WORK AREA
  - PAVEMENT REMOVAL
  - WEDGING
- END CONSTRUCTION**  
-Y2- Sta. 19+95

END CONSTRUCTION  
-Y3- Sta. 14+37

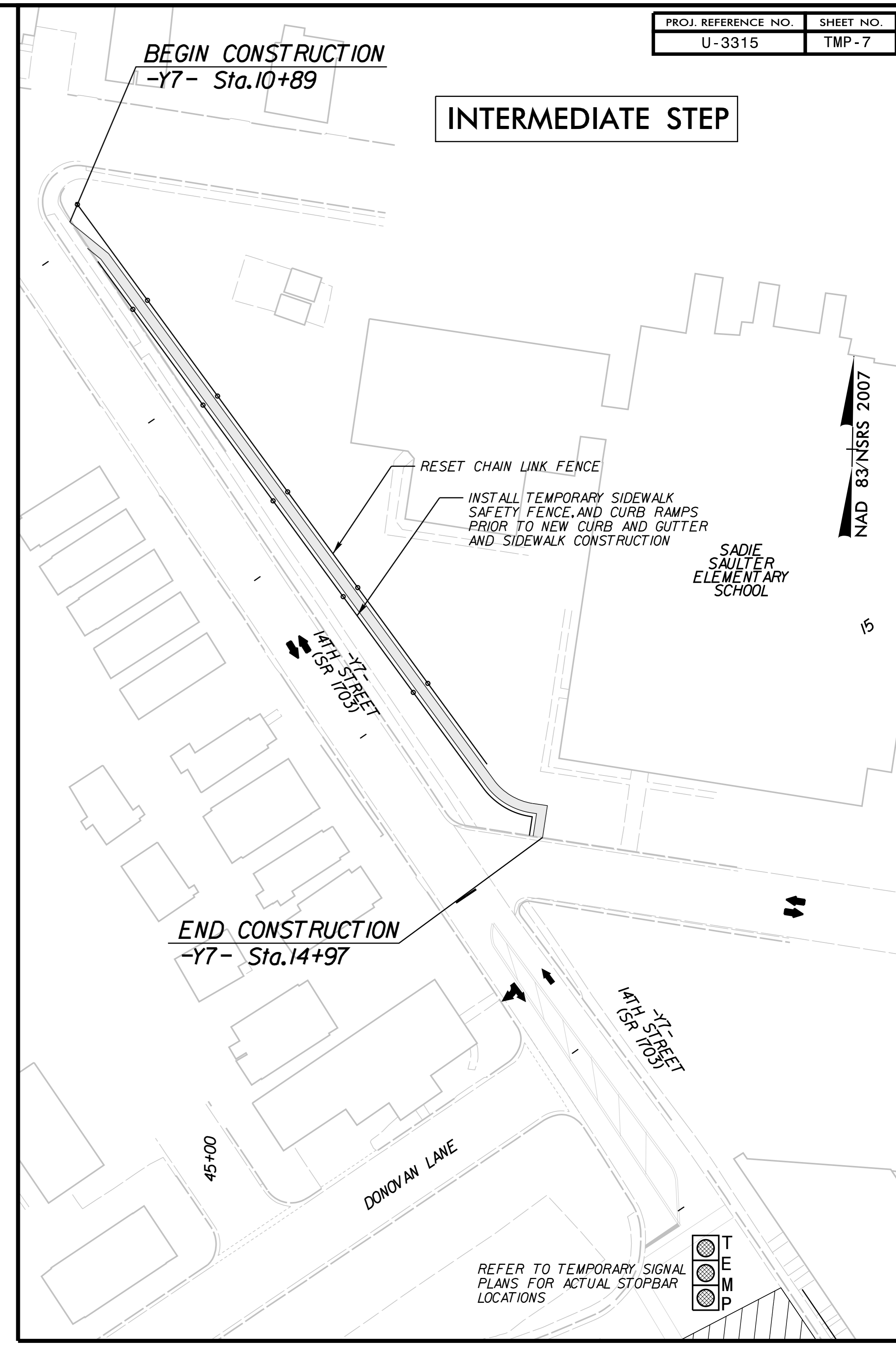
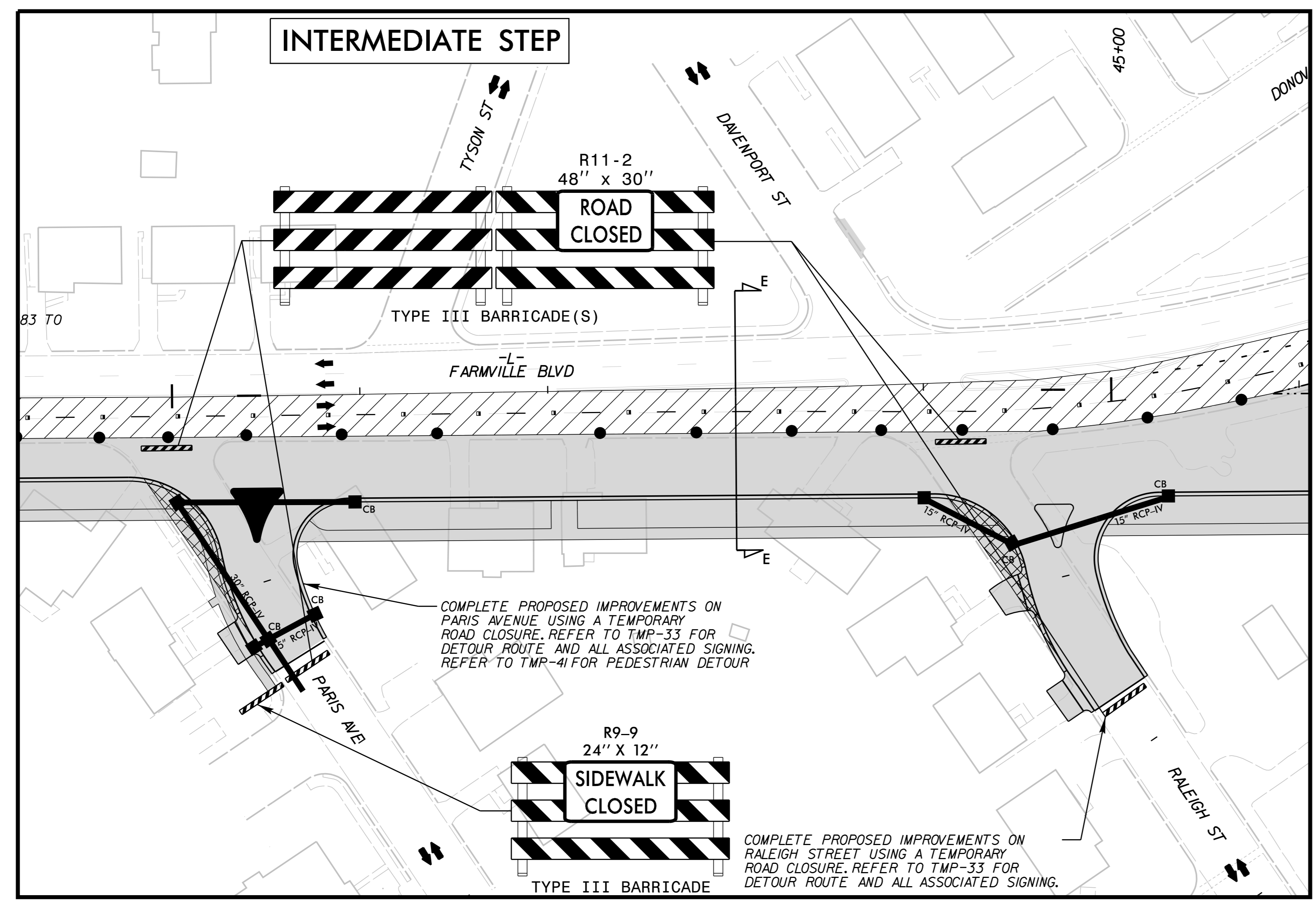
APPROVED: Jason Pace DATE: 2/7/2014



**Kimley»Horn**

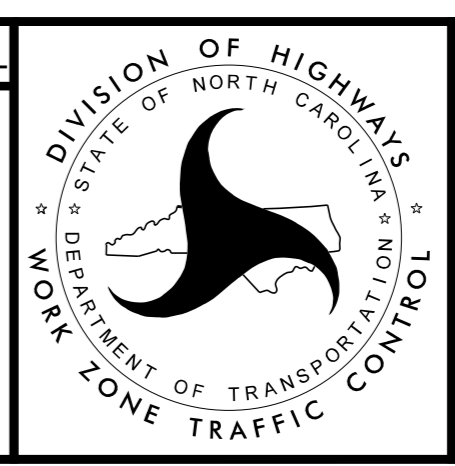
**TRAFFIC CONTROL**  
PHASE 1

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- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

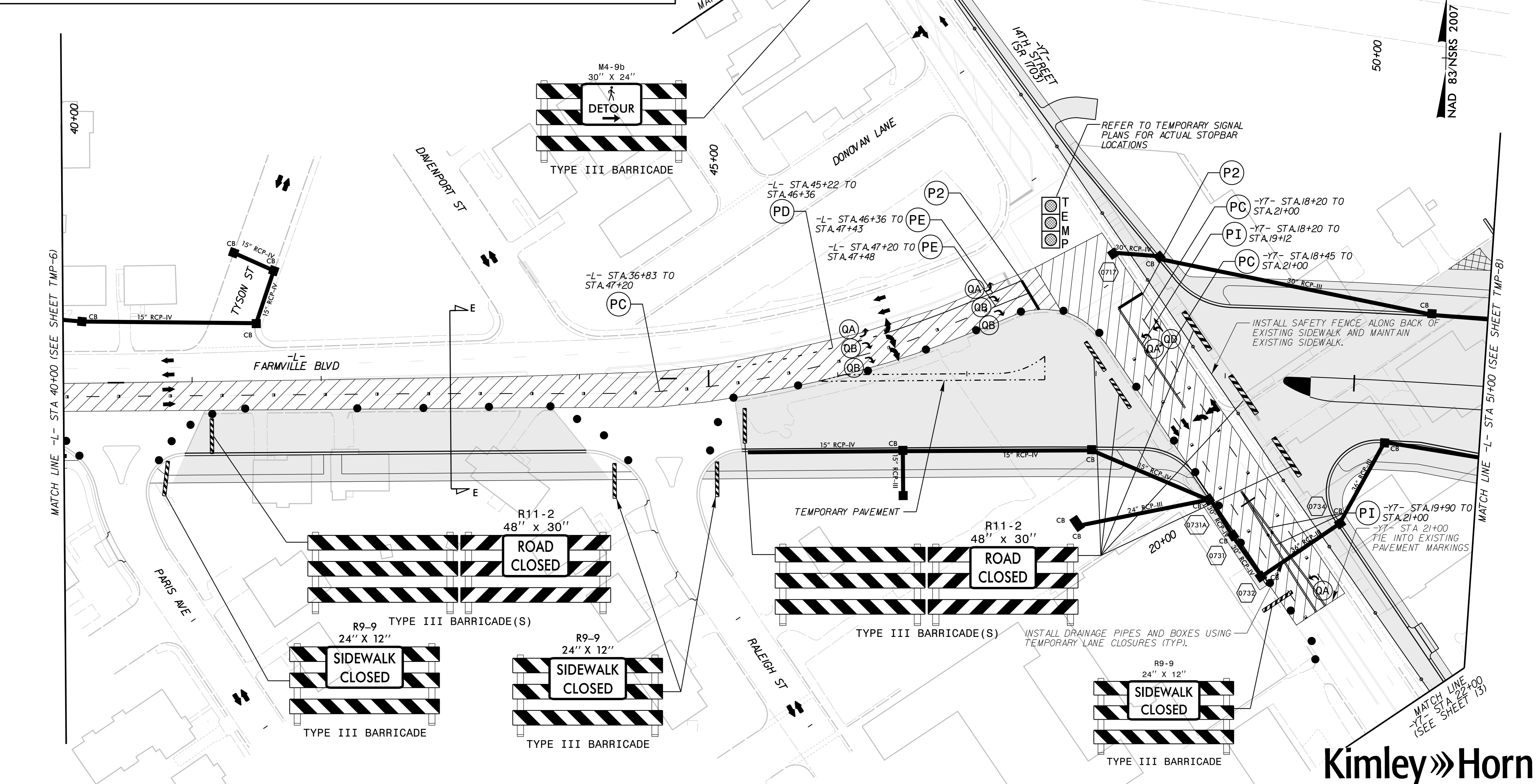
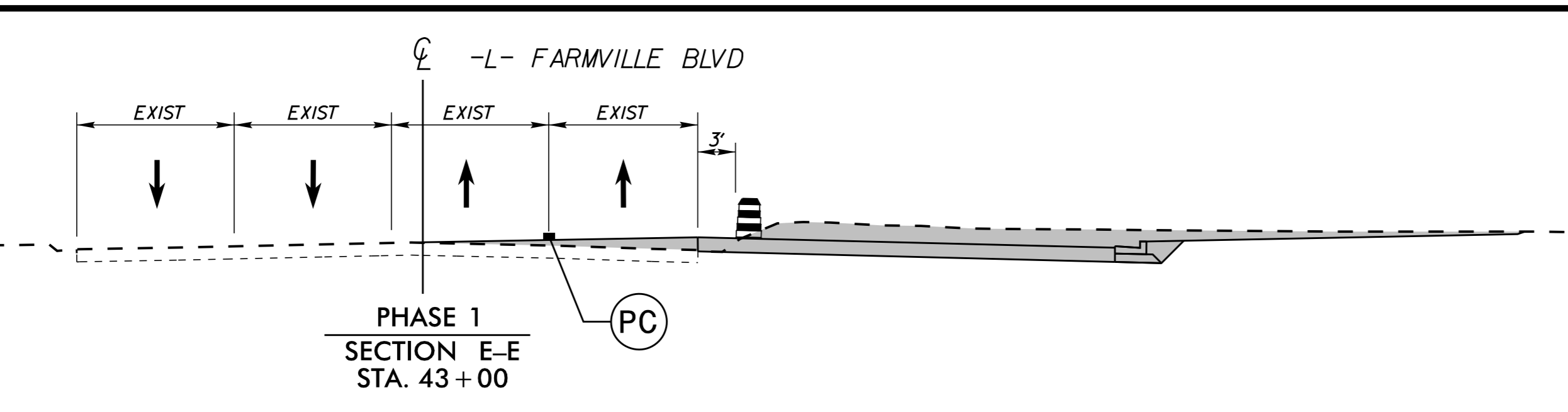
APPROVED: Jason Pace DATE: 11/17/2014



**Kimley»Horn**

**TRAFFIC CONTROL PHASE 1**

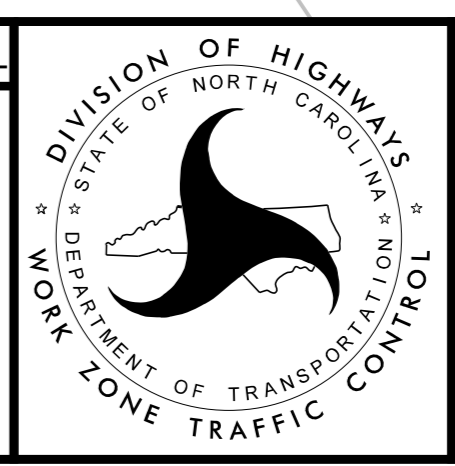
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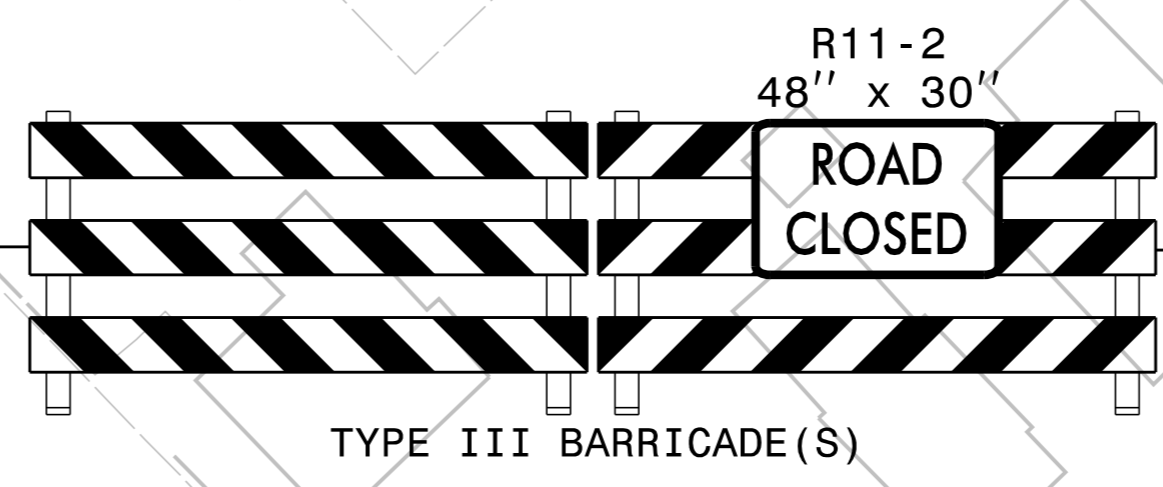
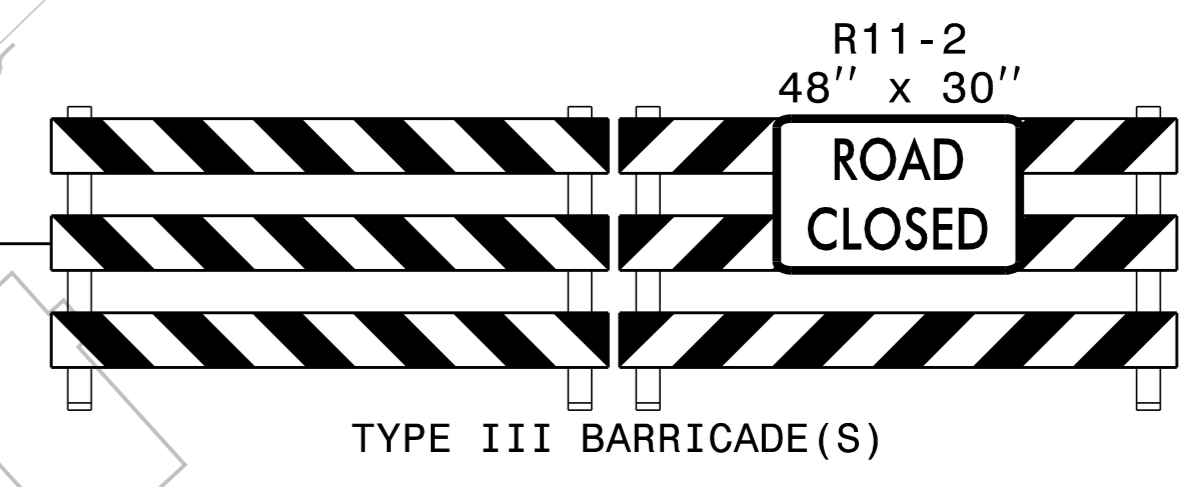
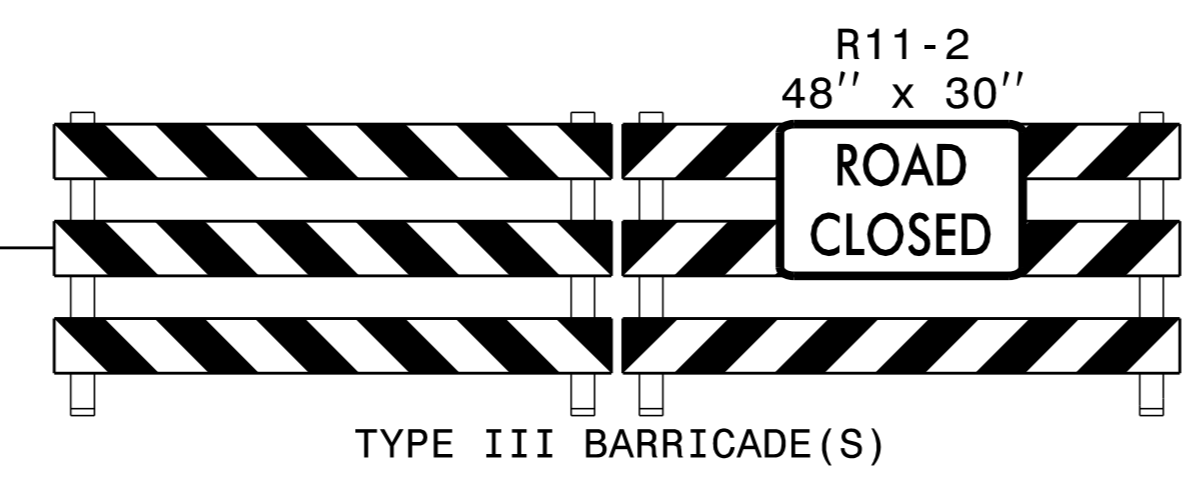
- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/27/2014

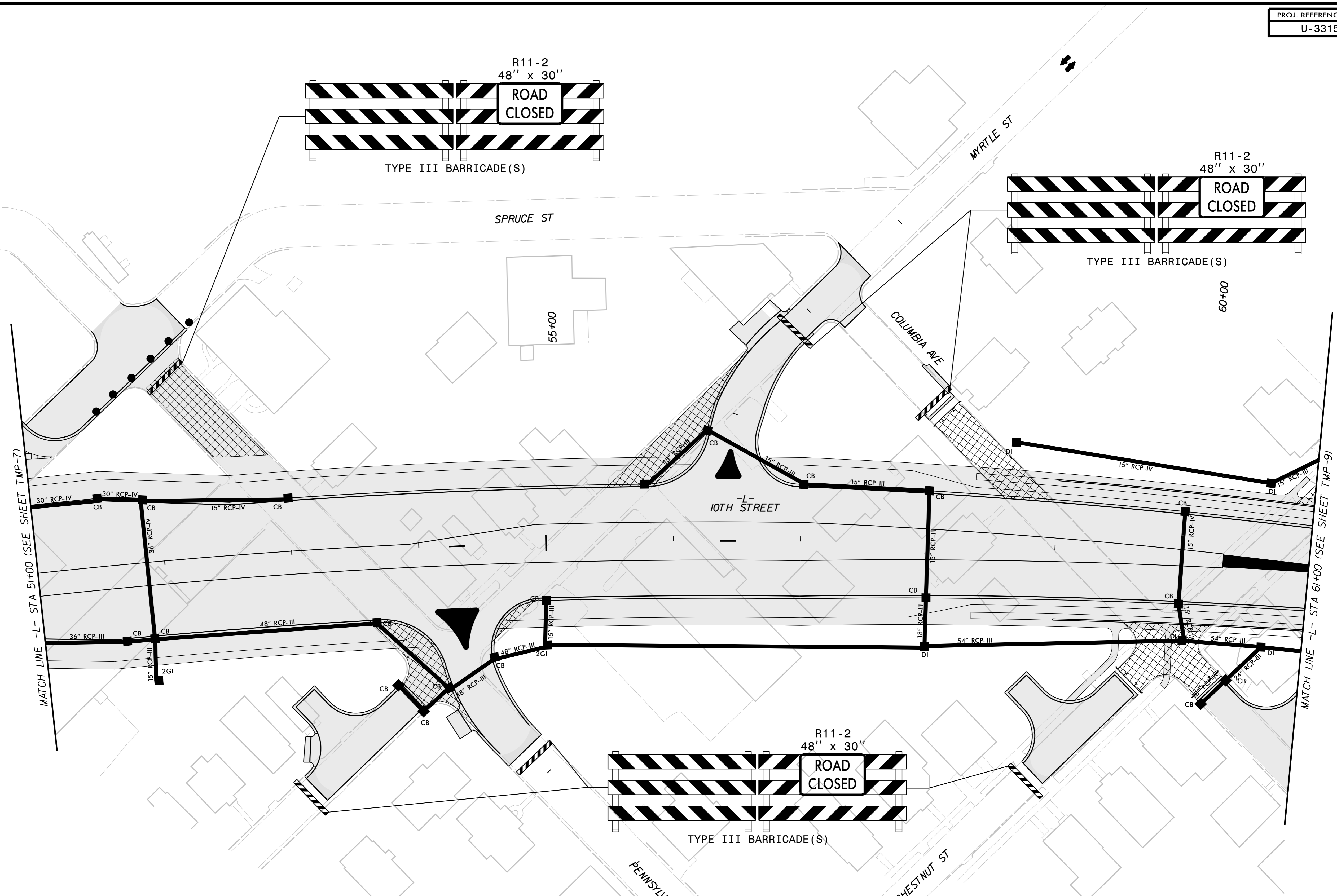


**Kimley»Horn**

**TRAFFIC CONTROL  
PHASE 1**



NAD 83/NSRS 2007



MATCH LINE -L- STA 51+00 (SEE SHEET TMP-7)

MATCH LINE -L- STA 61+00 (SEE SHEET TMP-9)

REFER TO SHEET TMP-30 FOR 10TH ST DETOUR ROUTE  
REFER TO SHEET TMP-32 FOR MYRTLE ST AND PENNSYLVANIA AVE DETOUR ROUTES

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

K:\RAL\_Roadway\01036175 (U-3315)NTrafficControl\CP\Sheet\3315\_TMP\_psf08.dgn 11/4/2014

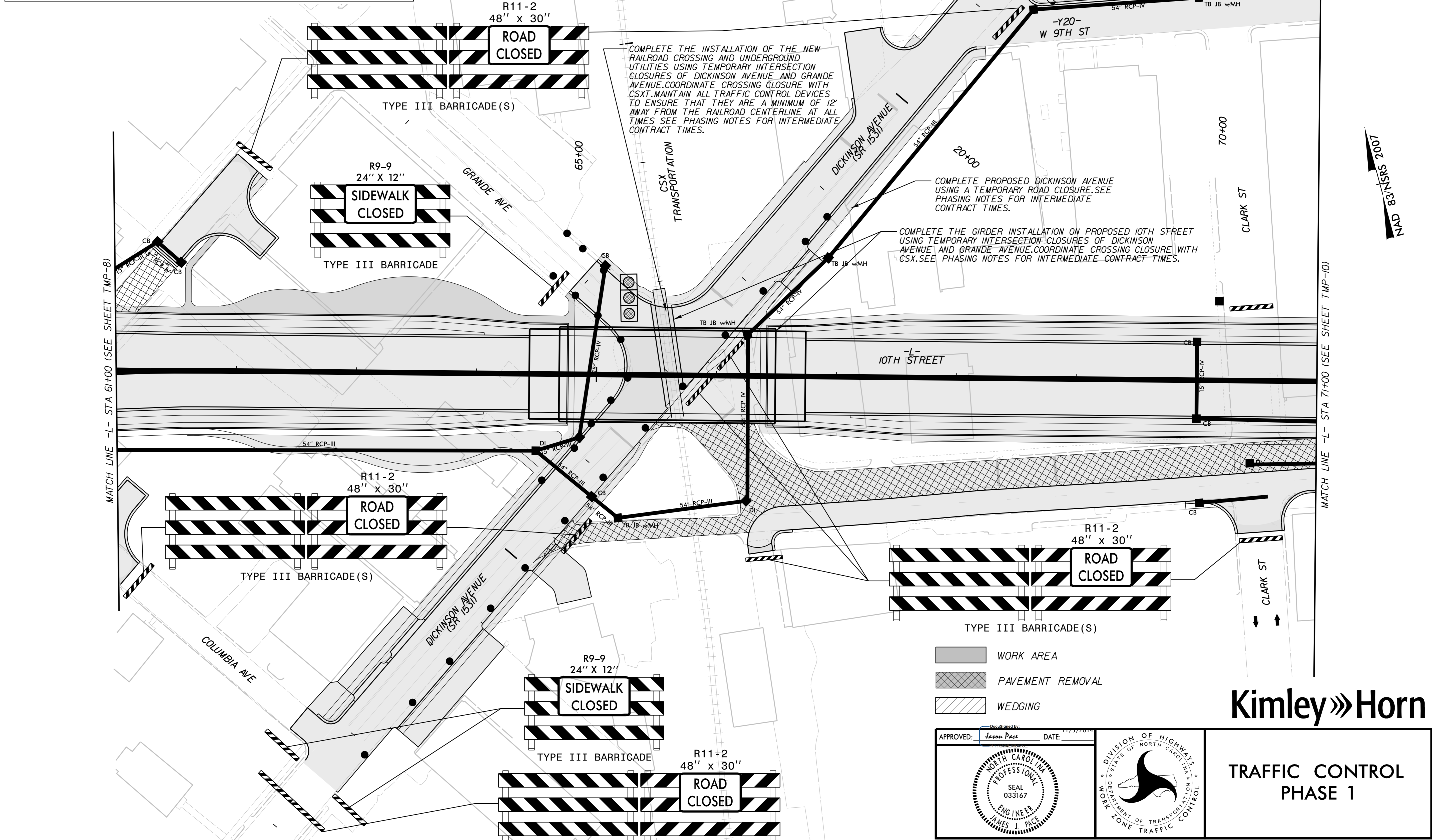
APPROVED: Jason Pace DATE: 11/27/2014

**Kimley»Horn**

**TRAFFIC CONTROL  
PHASE 1**

REFER TO SHEET TMP-30 FOR TENTH STREET  
DETOUR ROUTE  
REFER TO SHEET TMP-31 FOR DICKINSON AVE  
/GRANDE AVE DETOUR ROUTE  
REFER TO SHEET TMP-36 FOR NINTH STREET  
DETOUR ROUTE  
REFER TO SHEET TMP-46 FOR PEDESTRIAN  
DETOUR ROUTES

NOTE:  
CSXT TO REMOVE EXIST AT-GRADE RAILROAD CROSSING  
WITHIN 10' OF RR CENTERLINE, CONTRACTOR TO REMOVE  
PAVEMENT OUTSIDE OF 10' OF RR CENTERLINE. ALL WORK  
IN RAILROAD RIGHT OF WAY SHALL BE COORDINATED WITH  
CSX PRIOR TO CONSTRUCTION (MP AA 0149.66) (BY OTHERS)



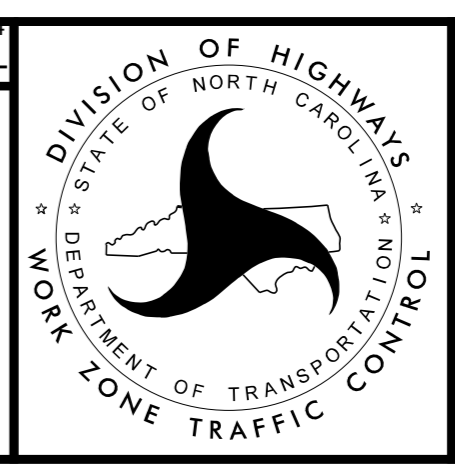
COMPLETE THE INSTALLATION OF THE NEW  
RAILROAD CROSSING AND UNDERGROUND  
UTILITIES USING TEMPORARY INTERSECTION  
CLOSURES OF DICKINSON AVENUE AND GRANDE  
AVENUE. COORDINATE CROSSING CLOSURE WITH  
CSXT. MAINTAIN ALL TRAFFIC CONTROL DEVICES  
TO ENSURE THAT THEY ARE A MINIMUM OF 12'  
AWAY FROM THE RAILROAD CENTERLINE AT ALL  
TIMES SEE PHASING NOTES FOR INTERMEDIATE  
CONTRACT TIMES.

COMPLETE PROPOSED DICKINSON AVENUE  
USING A TEMPORARY ROAD CLOSURE. SEE  
PHASING NOTES FOR INTERMEDIATE  
CONTRACT TIMES.

COMPLETE THE GIRDER INSTALLATION ON PROPOSED 10TH STREET  
USING TEMPORARY INTERSECTION CLOSURES OF DICKINSON  
AVENUE AND GRANDE AVENUE. COORDINATE CROSSING CLOSURE  
WITH CSX. SEE PHASING NOTES FOR INTERMEDIATE CONTRACT TIMES.

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/17/2014

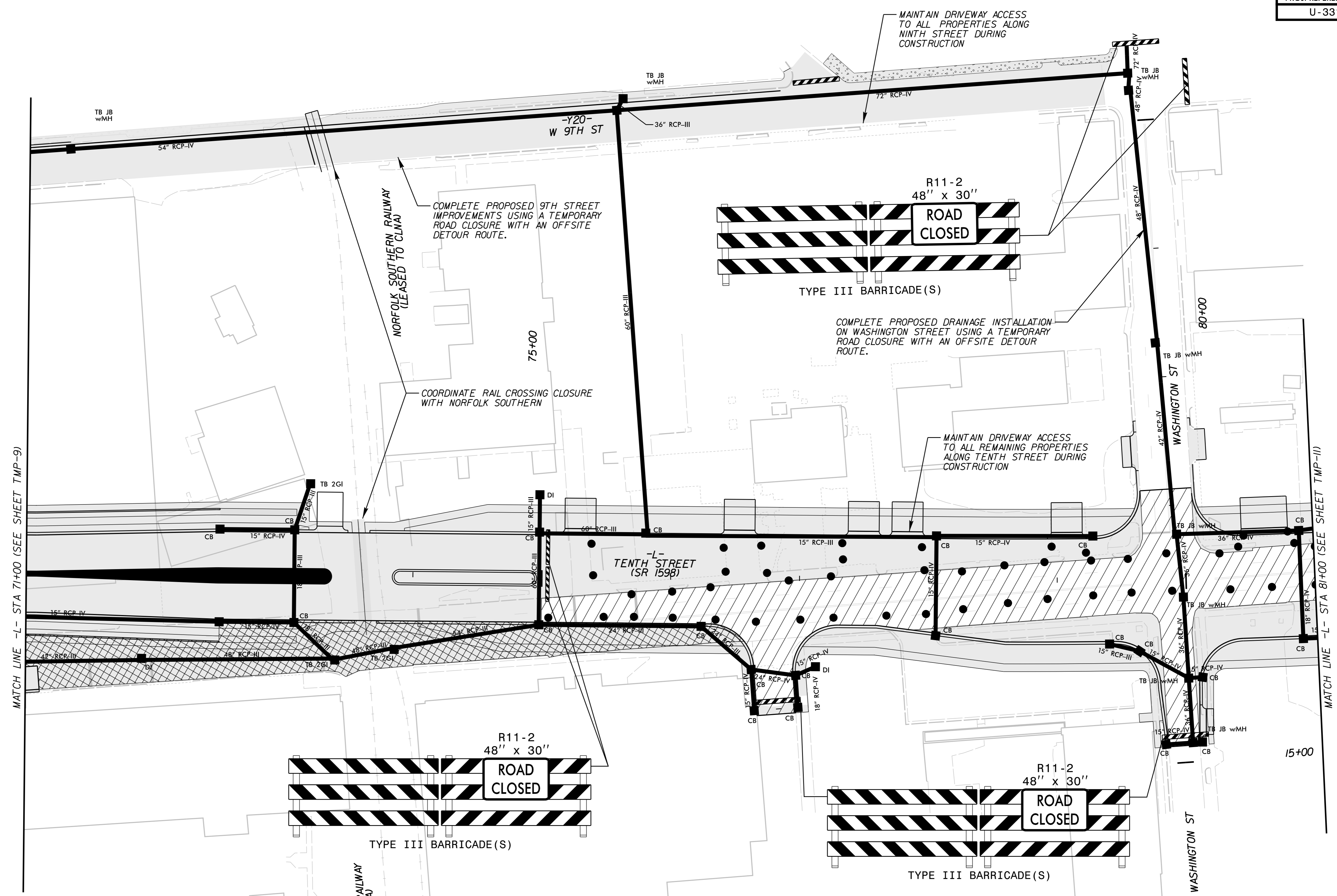


Kimley»Horn

TRAFFIC CONTROL  
PHASE 1

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MATCH LINE -L- STA 71+00 (SEE SHEET TMP-9)

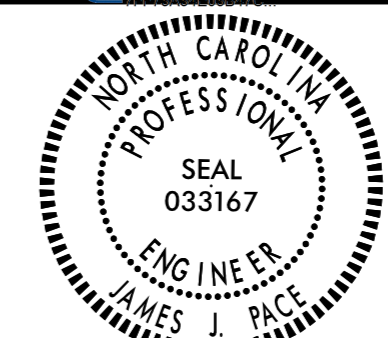
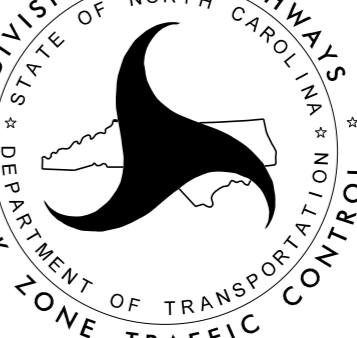
MATCH LINE -L- STA 81+00 (SEE SHEET TMP-11)

NAD 83/NSRS 2007

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

REFER TO SHEET TMP-30 FOR TENTH ST AND WASHINGTON STREET DETOUR ROUTES  
 REFER TO SHEET TMP-36 FOR NINTH ST DETOUR ROUTE

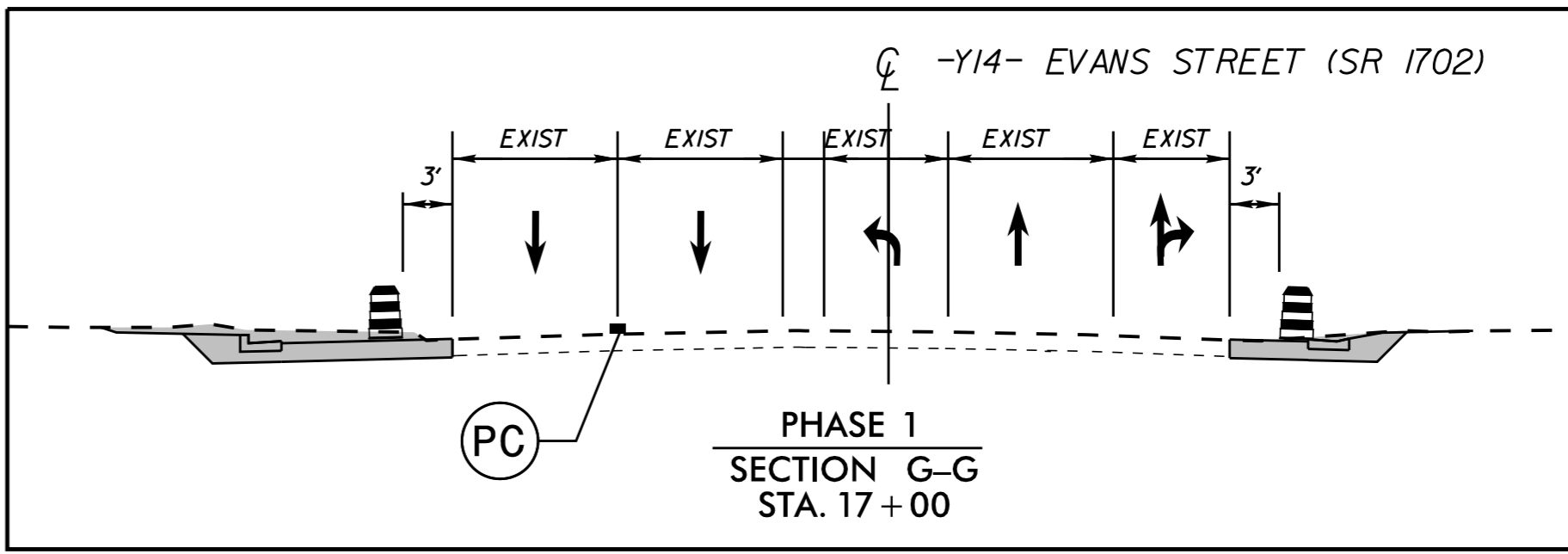
APPROVED: Jason Pace DATE: 11/15/2014

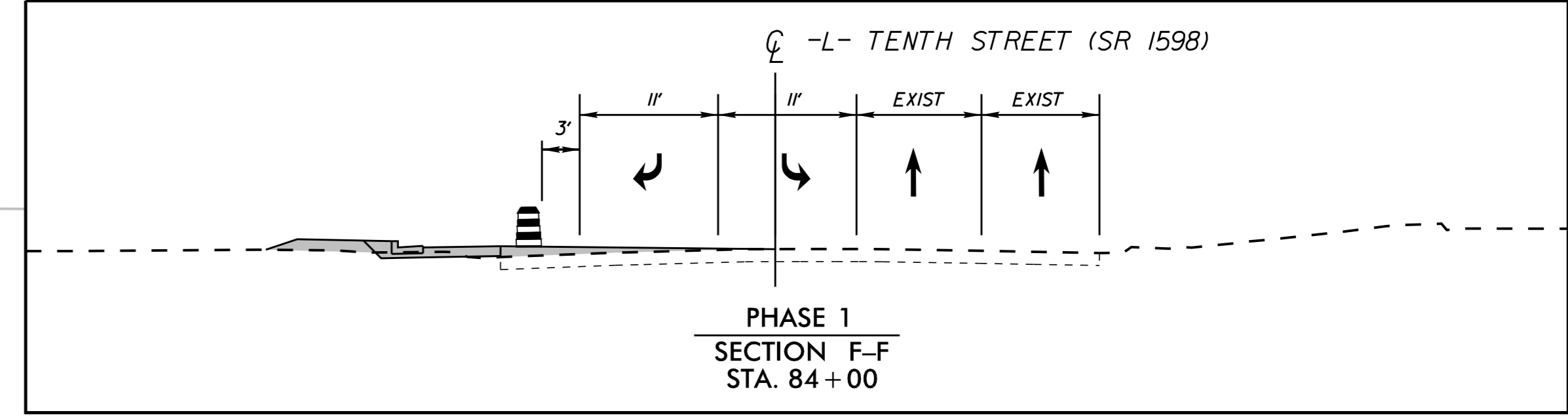
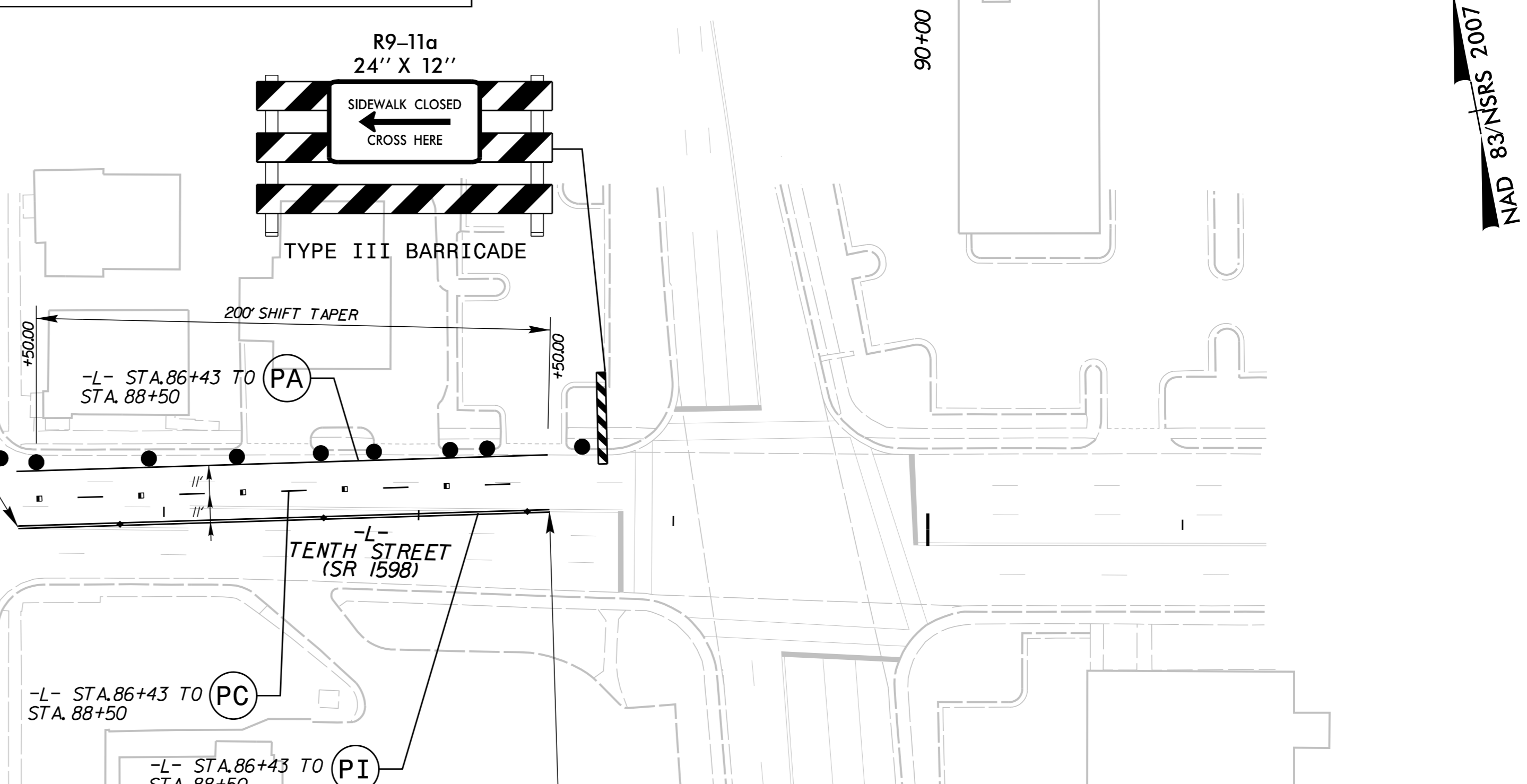
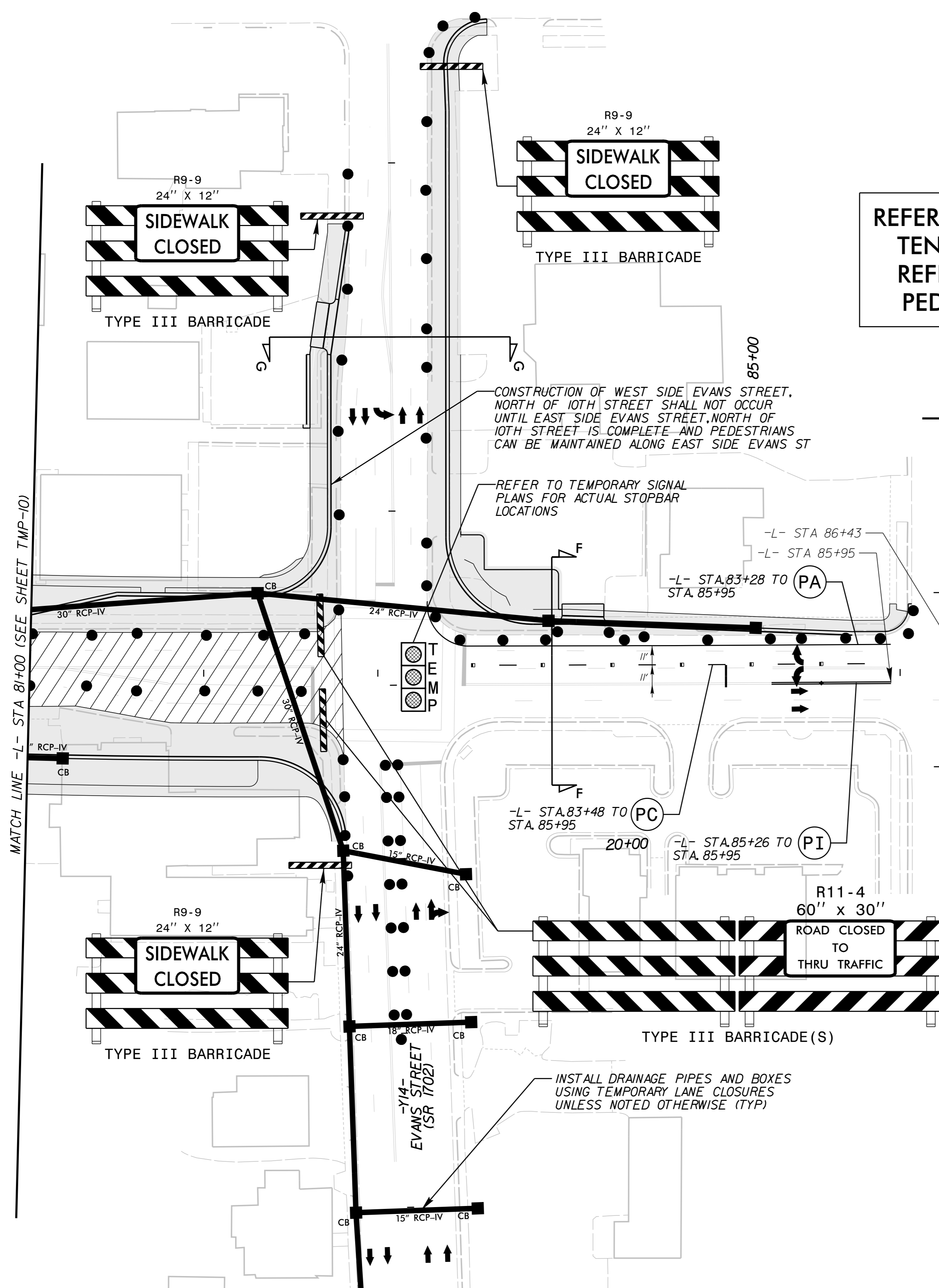
# Kimley»Horn

## TRAFFIC CONTROL PHASE 1

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REFER TO SHEET TMP-30 FOR TENTH ST DETOUR ROUTE  
REFER TO SHEET TMP-43 FOR PEDESTRIAN DETOUR ROUTES



- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/17/2014

NORTH CAROLINA PROFESSIONAL SEAL 033167 ENGINEER JAMES J. PACE

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

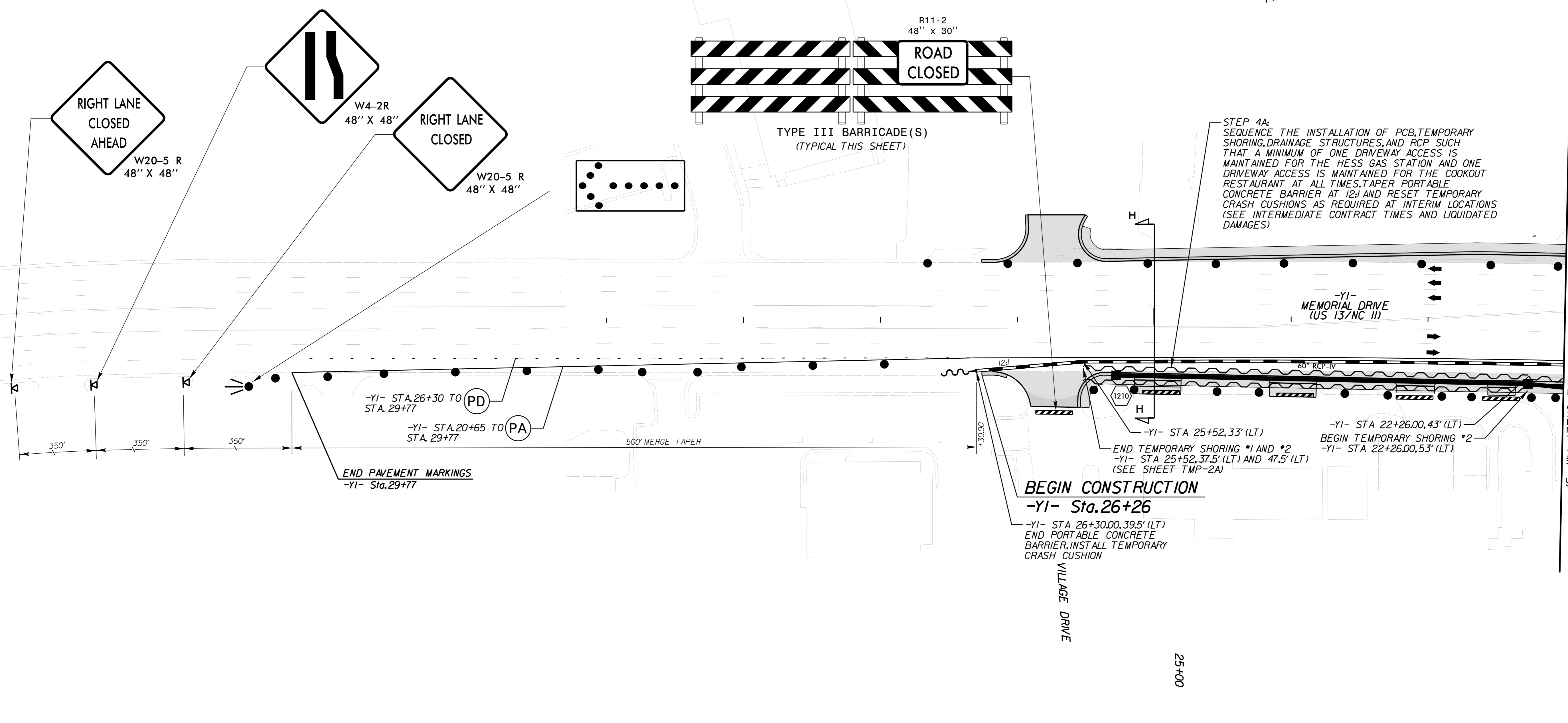
Kimley»Horn

TRAFFIC CONTROL PHASE 1

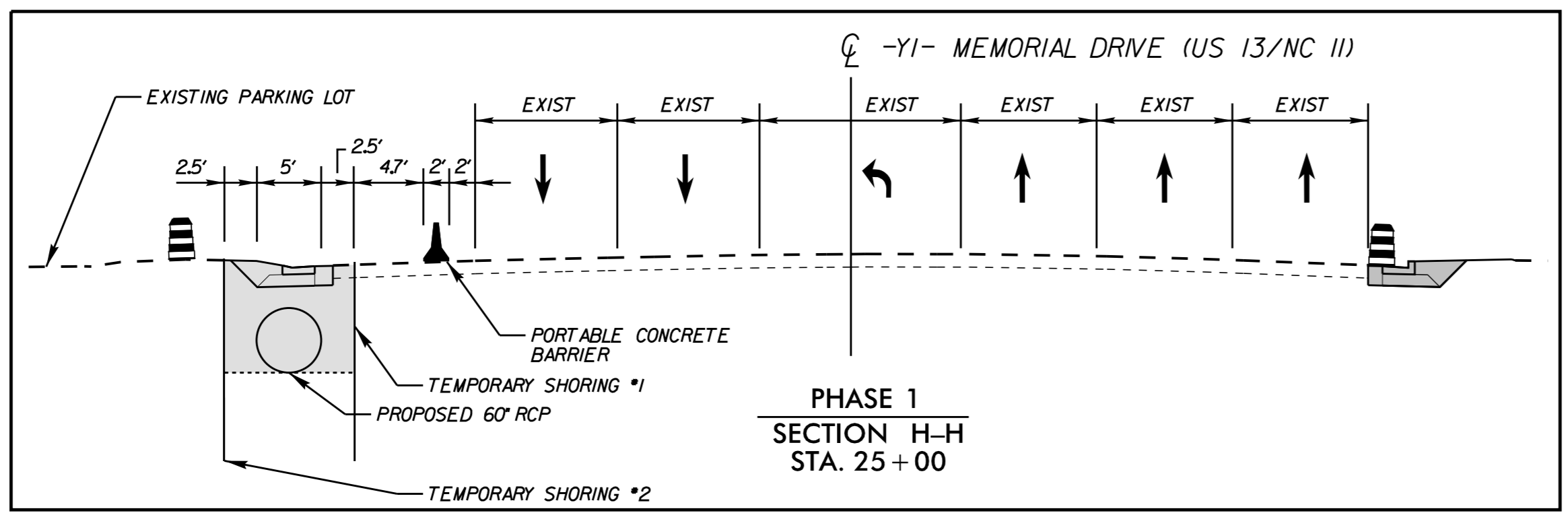
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NAD 83/NSRS 2007

NAD 83/NSRS 2007

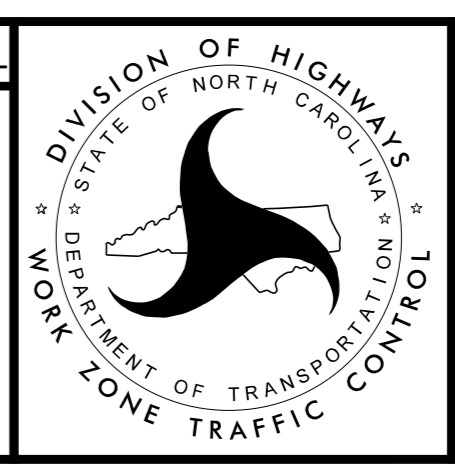


STEP 4A:  
SEQUENCE THE INSTALLATION OF PCB, TEMPORARY SHORING, DRAINAGE STRUCTURES, AND RCP SUCH THAT A MINIMUM OF ONE DRIVEWAY ACCESS IS MAINTAINED FOR THE HESS GAS STATION AND ONE DRIVEWAY ACCESS IS MAINTAINED FOR THE COOKOUT RESTAURANT AT ALL TIMES. TAPER PORTABLE CONCRETE BARRIER AT 12H AND RESET TEMPORARY CRASH CUSHIONS AS REQUIRED AT INTERIM LOCATIONS (SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES)



- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: [Signature] DATE: 5/12/2015  
 NORTH CAROLINA PROFESSIONAL SEAL 033167  
 ENGINEER JAMES J. PACE



**Kimley»Horn**

**TRAFFIC CONTROL PHASE 1**

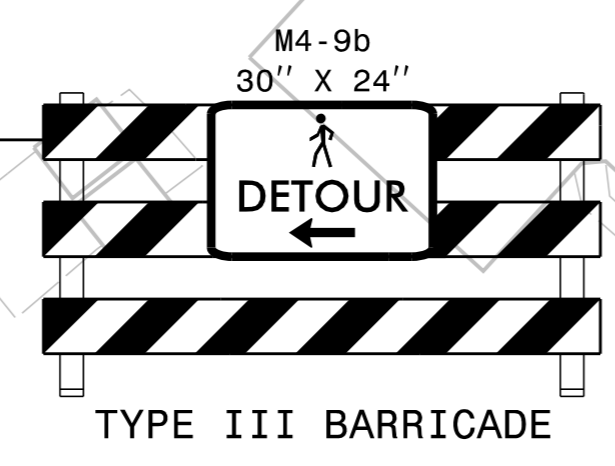
5/12/2015 \$FILEL\$

NAD 83/NSRS 2007

NAD 83/NSRS 2007

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11/4/2014

10+00



MAINTAIN PEDESTRIANS ALONG TEMPORARY SIDEWALK (SEE TMP-7)

-Y7- 14TH STREET (SR 1703)

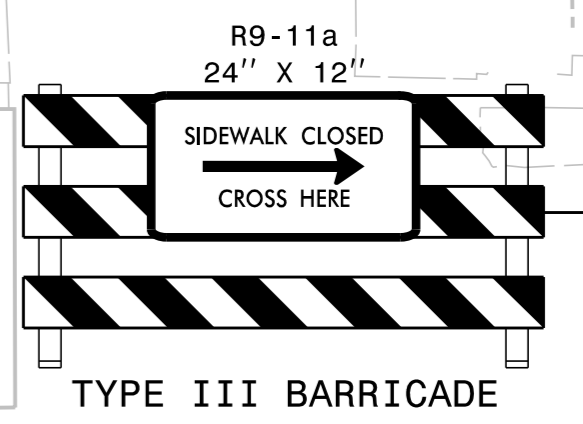
BEGIN CONSTRUCTION -Y2- Sta.11+15

MATCH LINE -Y7- STA 14+50 (SEE SHEET TMP-7)

END CONSTRUCTION -Y2- Sta.26+60

INSTALL SAFETY FENCE ALONG BACK OF EXISTING SIDEWALK AND MAINTAIN EXISTING SIDEWALK.

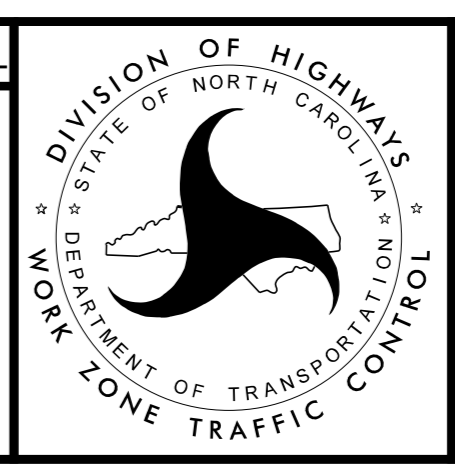
-Y7- 14TH STREET (SR 1703)



MATCH LINE -Y7- STA 22+00 (SEE SHEET TMP-7)

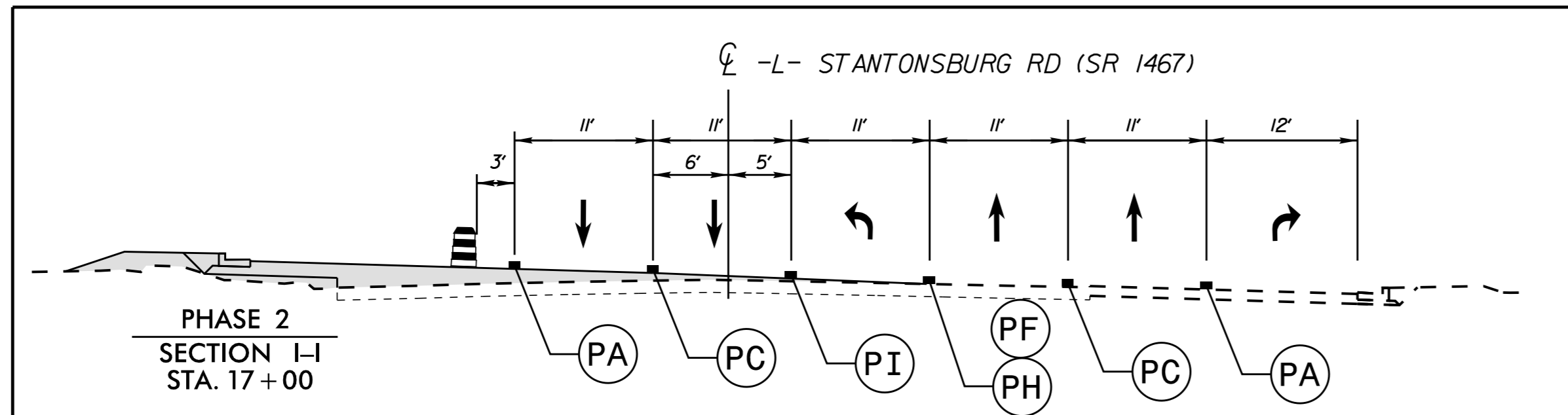
- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/19/2014



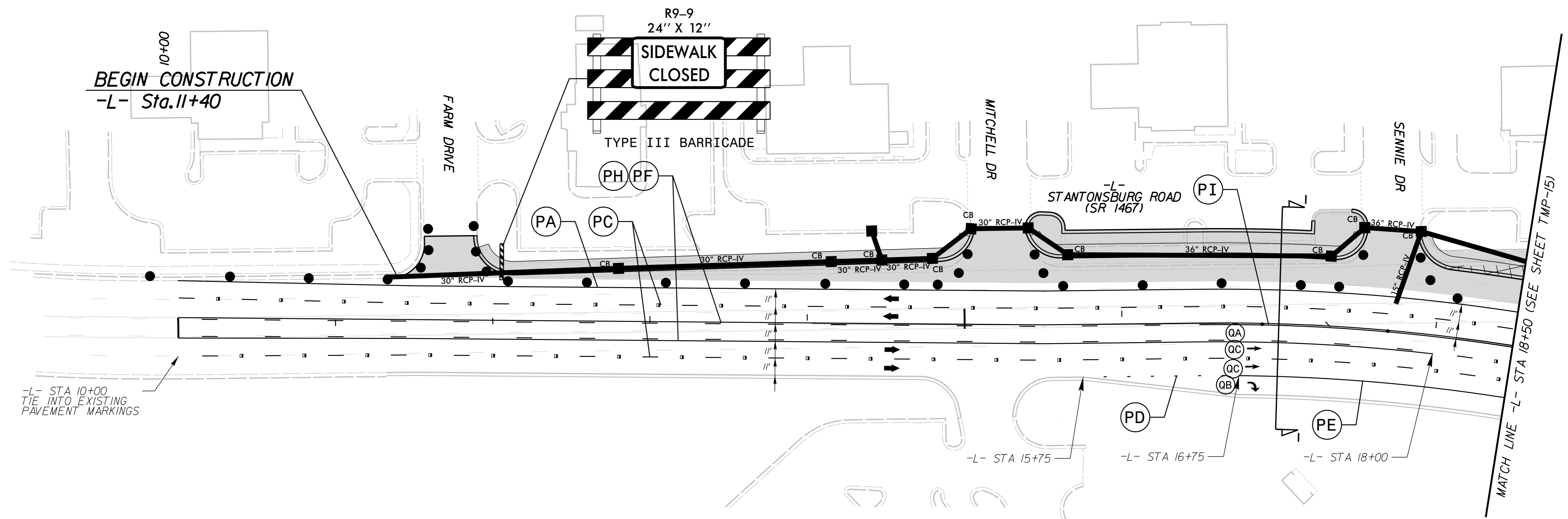
# Kimley»Horn

## TRAFFIC CONTROL PHASE 1



REFER TO SHEET TMP-47 FOR PEDESTRIAN DETOUR ROUTE

NAD 83/NSRS 2007



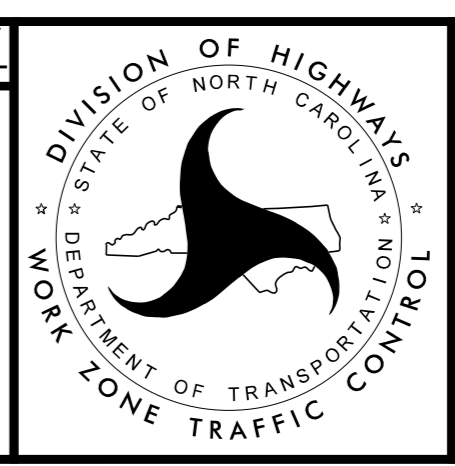
-L- STA 10+00 TIE INTO EXISTING PAVEMENT MARKINGS

MATCH LINE -L- STA 18+50 (SEE SHEET TMP-15)

K:\RAL\_Roadway\01036175\_U-3315\NT\TrafficControl\CP\Sheet\3315\_TMP\_psh14.dgn 11/4/2014

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

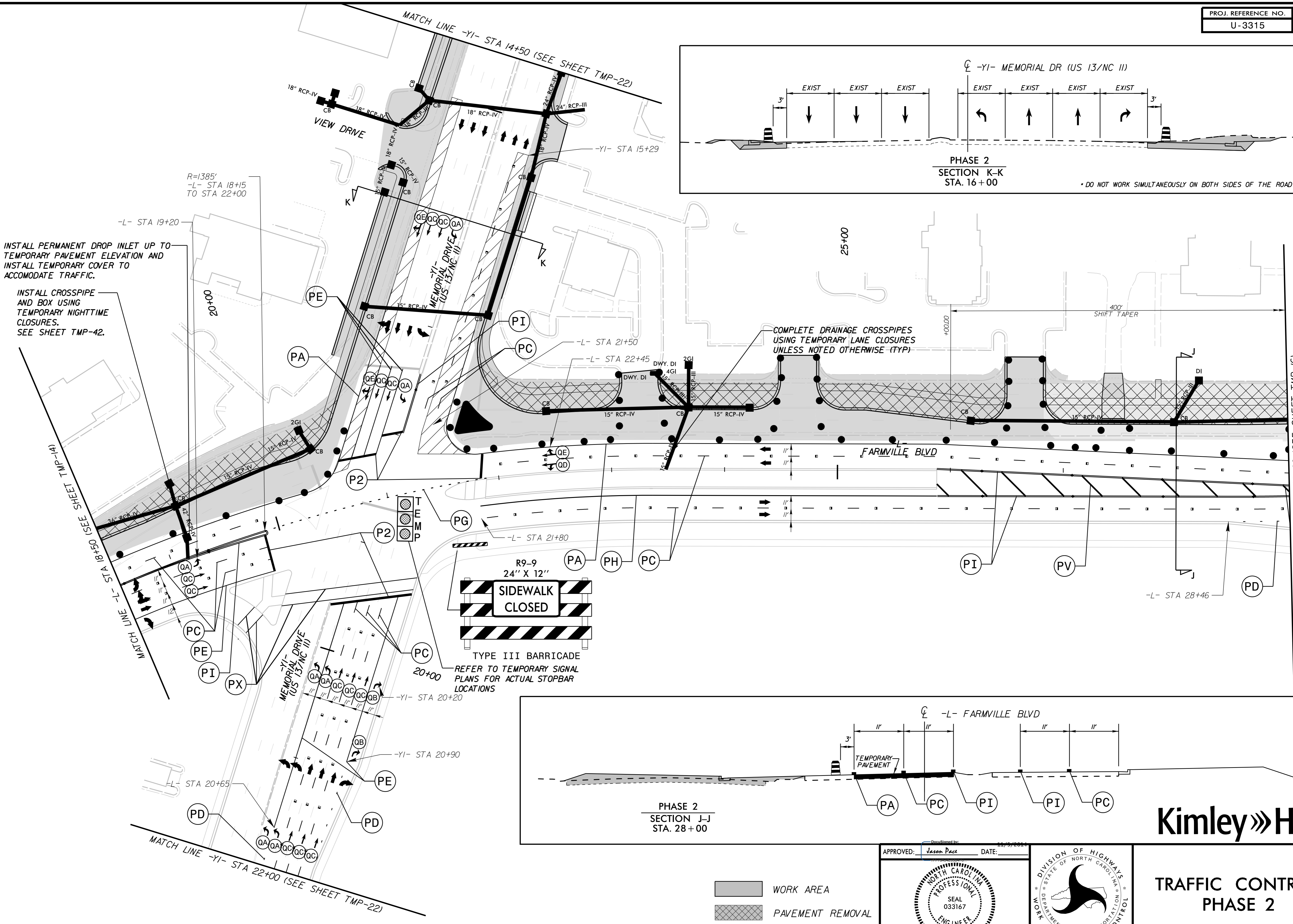
APPROVED: Jason Pace DATE: 11/17/2014



**Kimley»Horn**

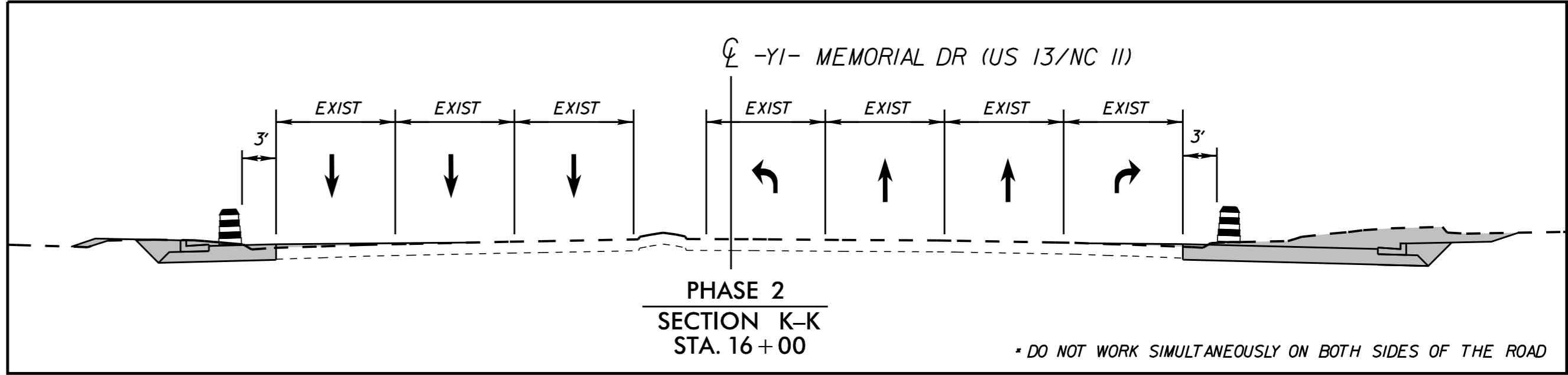
**TRAFFIC CONTROL PHASE 2**

NAD 83/NSRS 2007

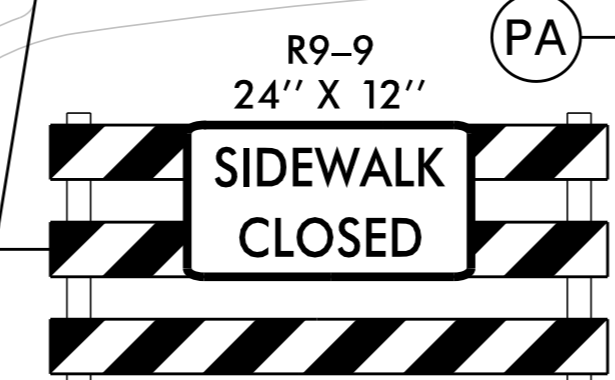


INSTALL PERMANENT DROP INLET UP TO TEMPORARY PAVEMENT ELEVATION AND INSTALL TEMPORARY COVER TO ACCOMMODATE TRAFFIC.

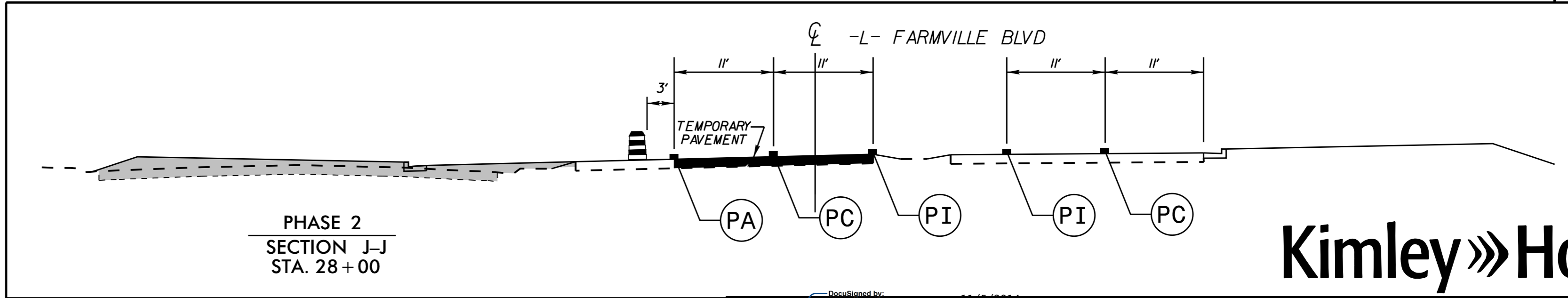
INSTALL CROSSPIPE AND BOX USING TEMPORARY NIGHTTIME CLOSURES. SEE SHEET TMP-42.



COMPLETE DRAINAGE CROSSPIPES USING TEMPORARY LANE CLOSURES UNLESS NOTED OTHERWISE (TYP)

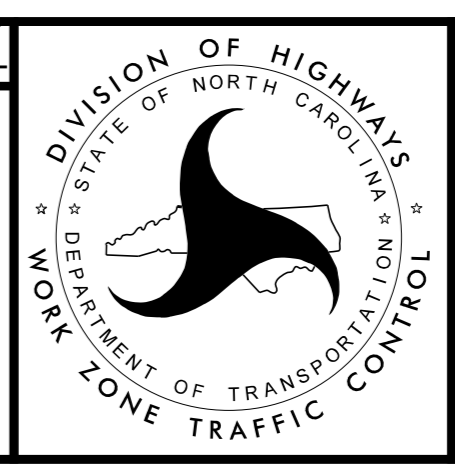


TYPE III BARRICADE REFER TO TEMPORARY SIGNAL PLANS FOR ACTUAL STOPBAR LOCATIONS



- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/4/2014

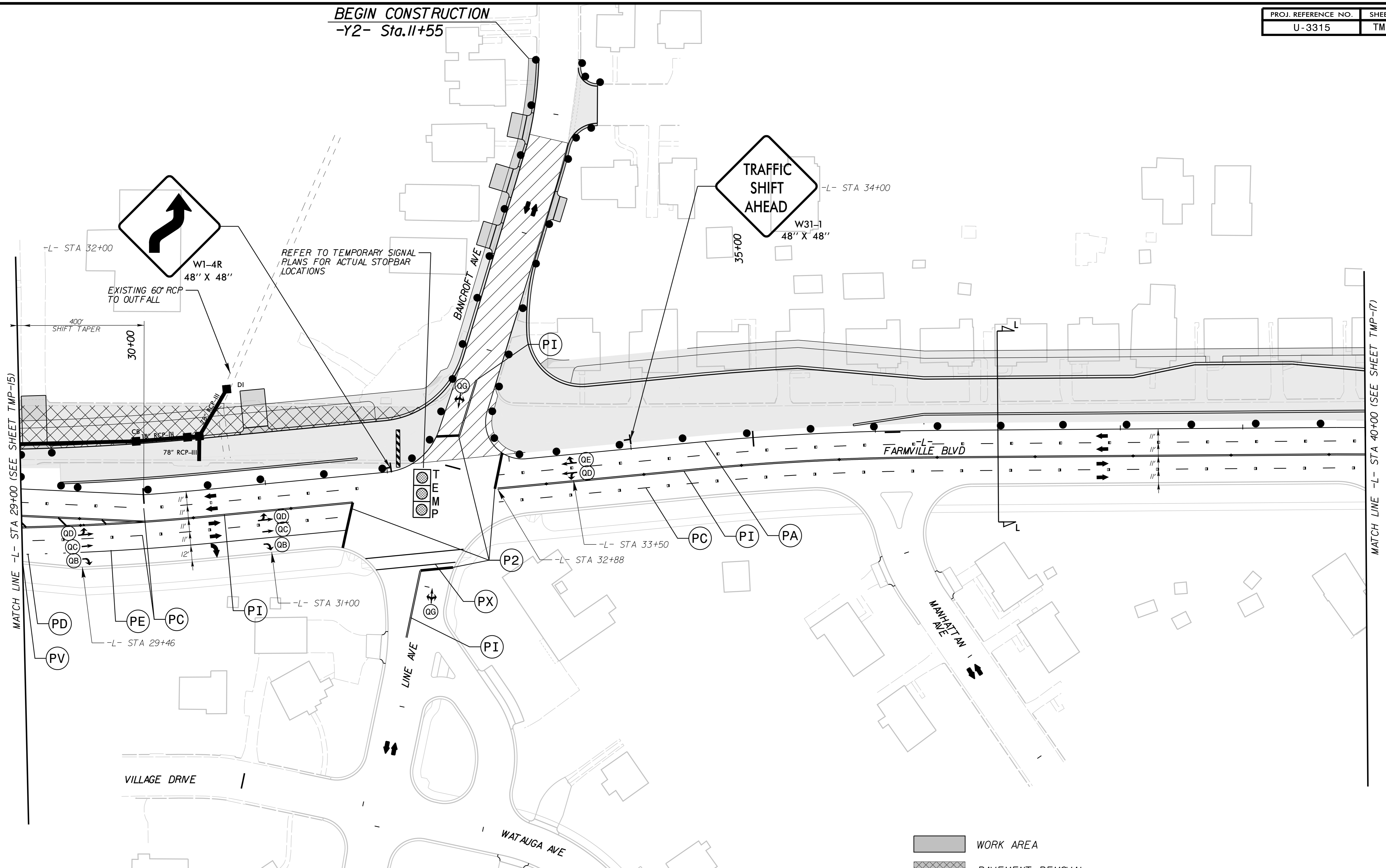


# Kimley»Horn

## TRAFFIC CONTROL PHASE 2

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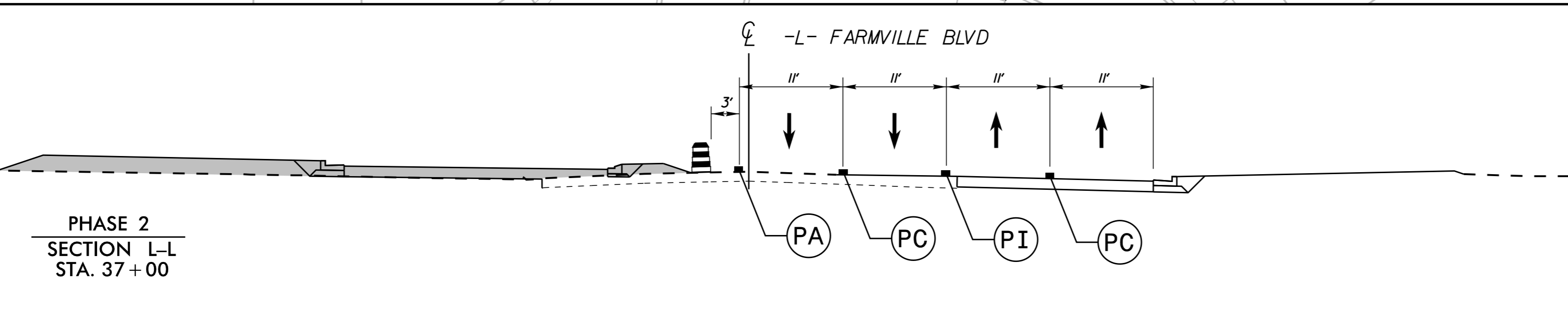
**BEGIN CONSTRUCTION**  
-Y2- Sta.11+55



MATCH LINE -L- STA 29+00 (SEE SHEET TMP-15)

MATCH LINE -L- STA 40+00 (SEE SHEET TMP-17)

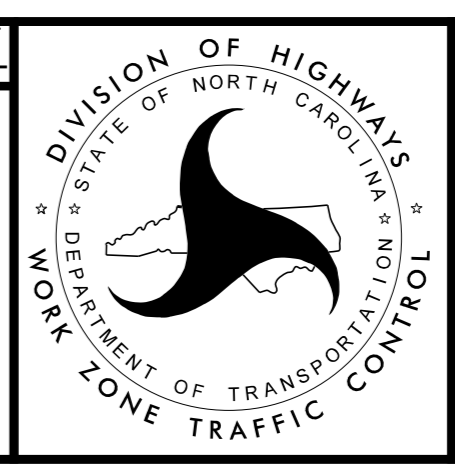
NAD 83/NSRS 2007



- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

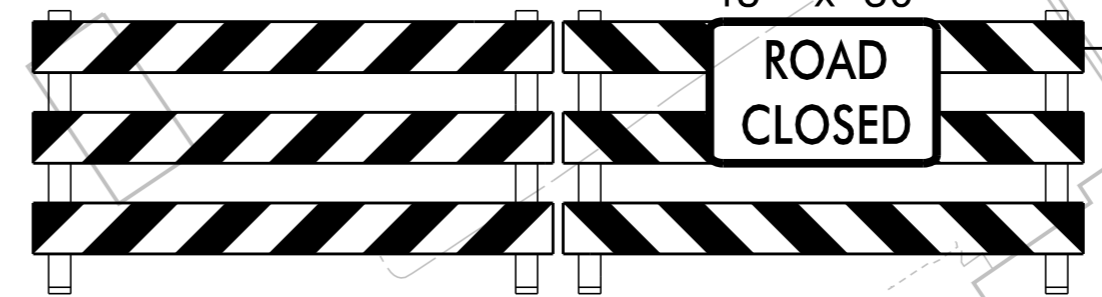
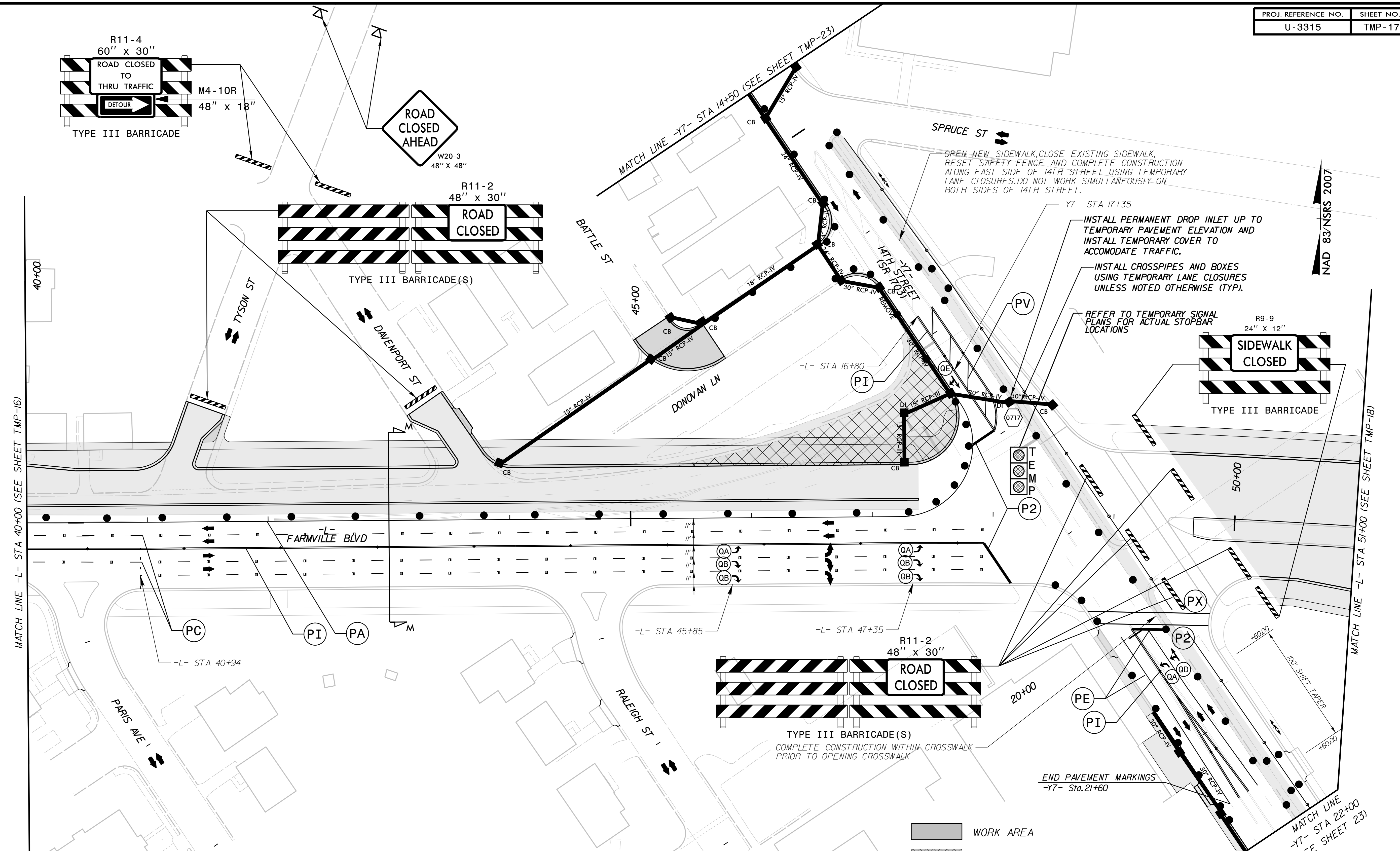
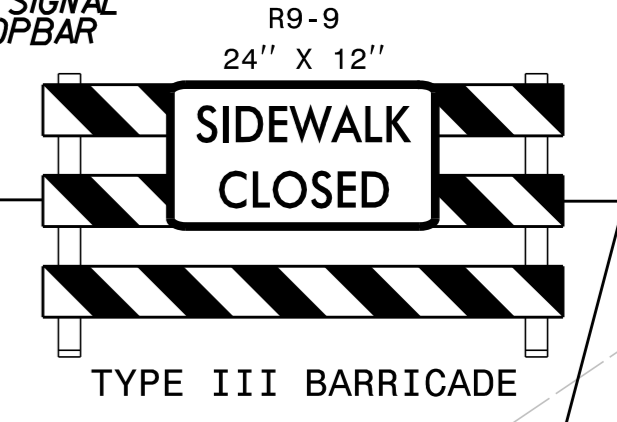
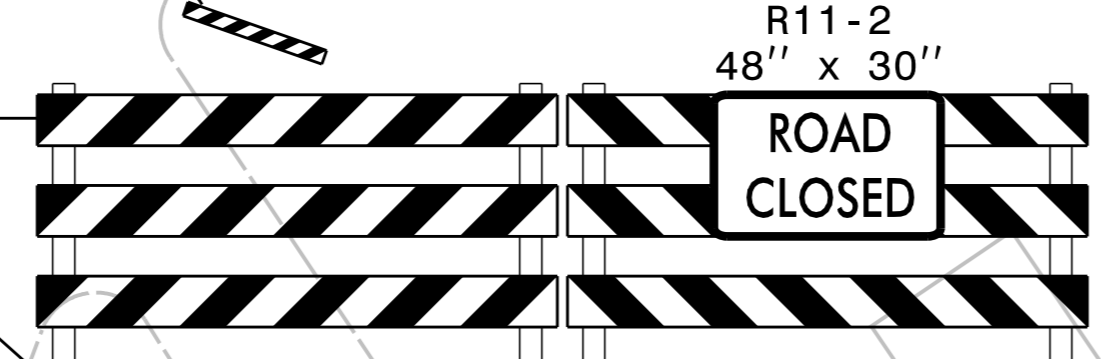
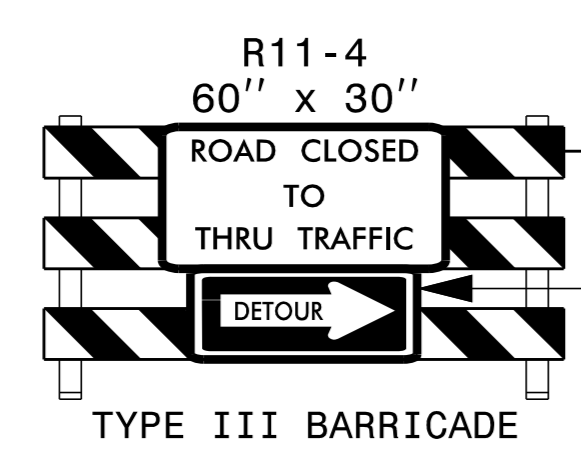
**Kimley»Horn**

APPROVED: Jason Pace DATE: 11/17/2014



**TRAFFIC CONTROL  
PHASE 2**

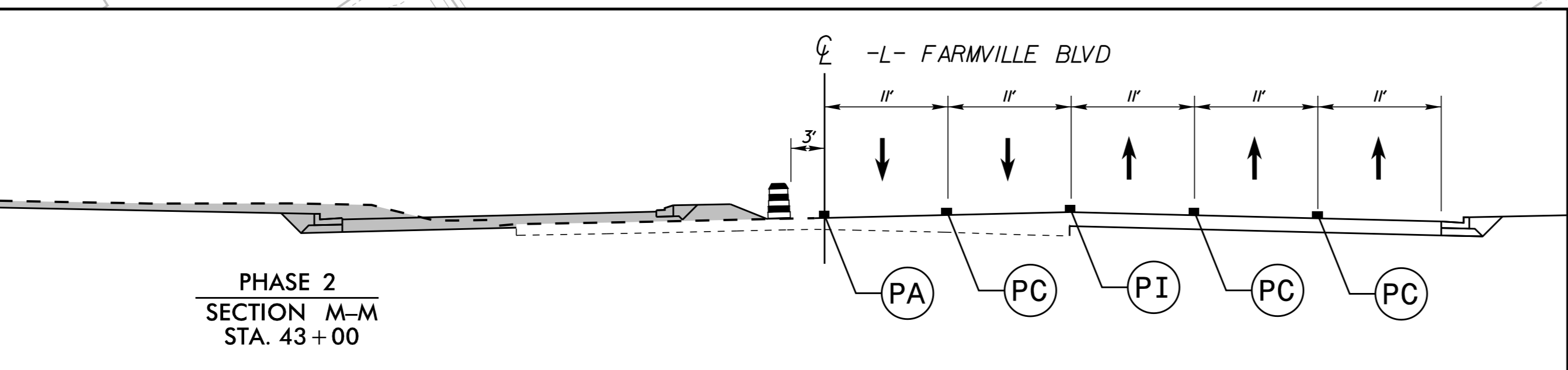
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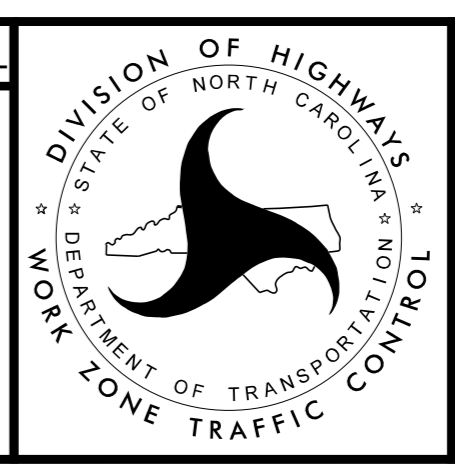
TYPE III BARRICADE(S)  
COMPLETE CONSTRUCTION WITHIN CROSSWALK  
PRIOR TO OPENING CROSSWALK

END PAVEMENT MARKINGS  
-Y7- Sta. 21+60

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING



APPROVED: Jason Pace DATE: 11/17/2014

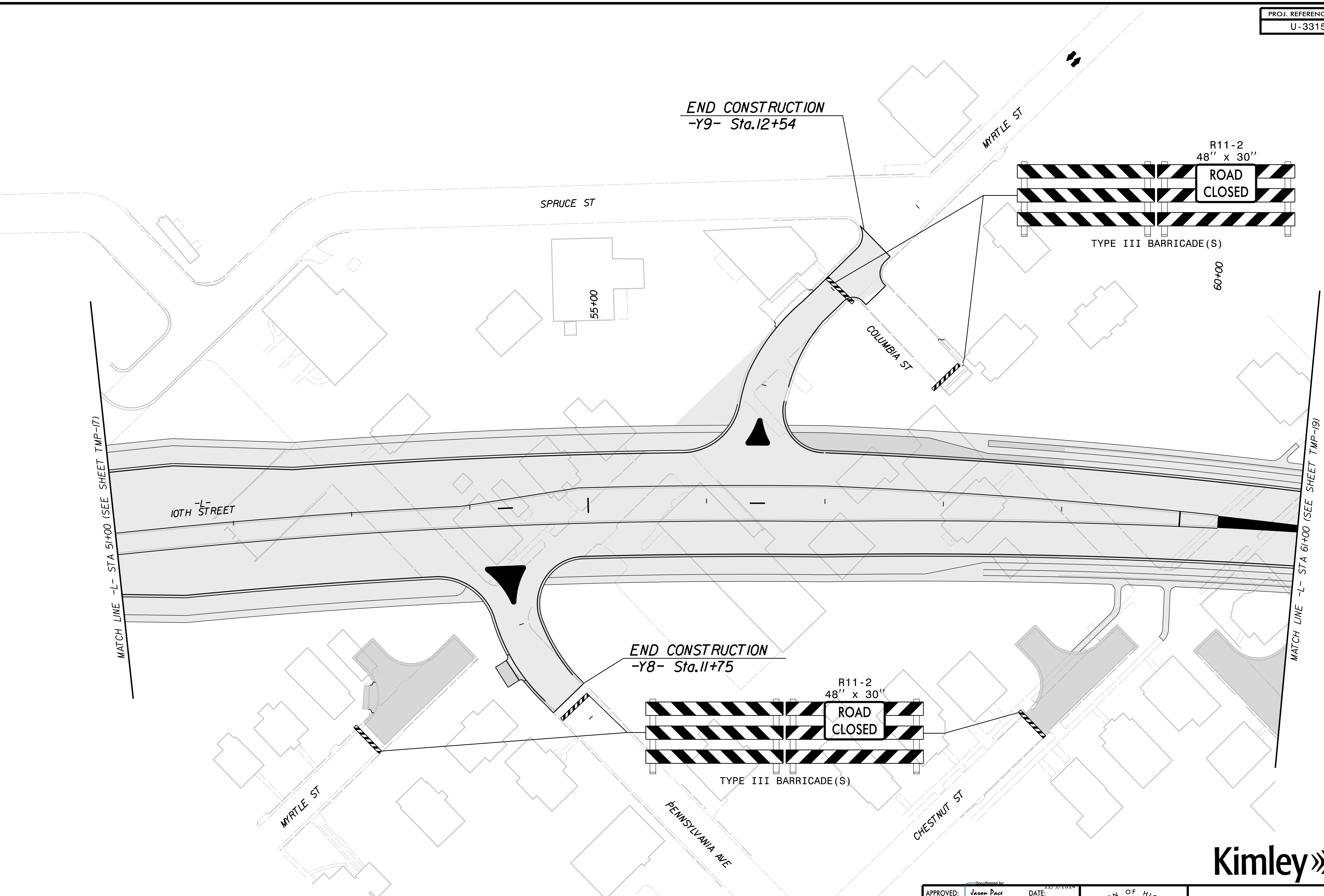


Kimley»Horn



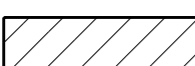
TRAFFIC CONTROL  
PHASE 2

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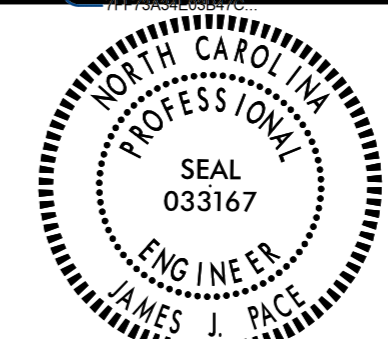
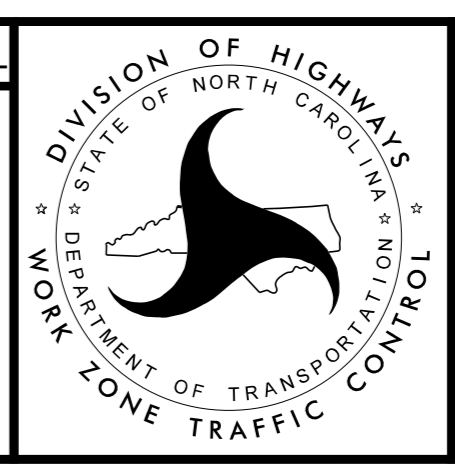


NAD 83/NSRS 2007

-  WORK AREA
-  PAVEMENT REMOVAL
-  WEDGING

**REFER TO SHEET TMP-30 AND  
TMP-32 FOR DETOUR ROUTES**

APPROVED: Jason Pace DATE: 12/17/2014

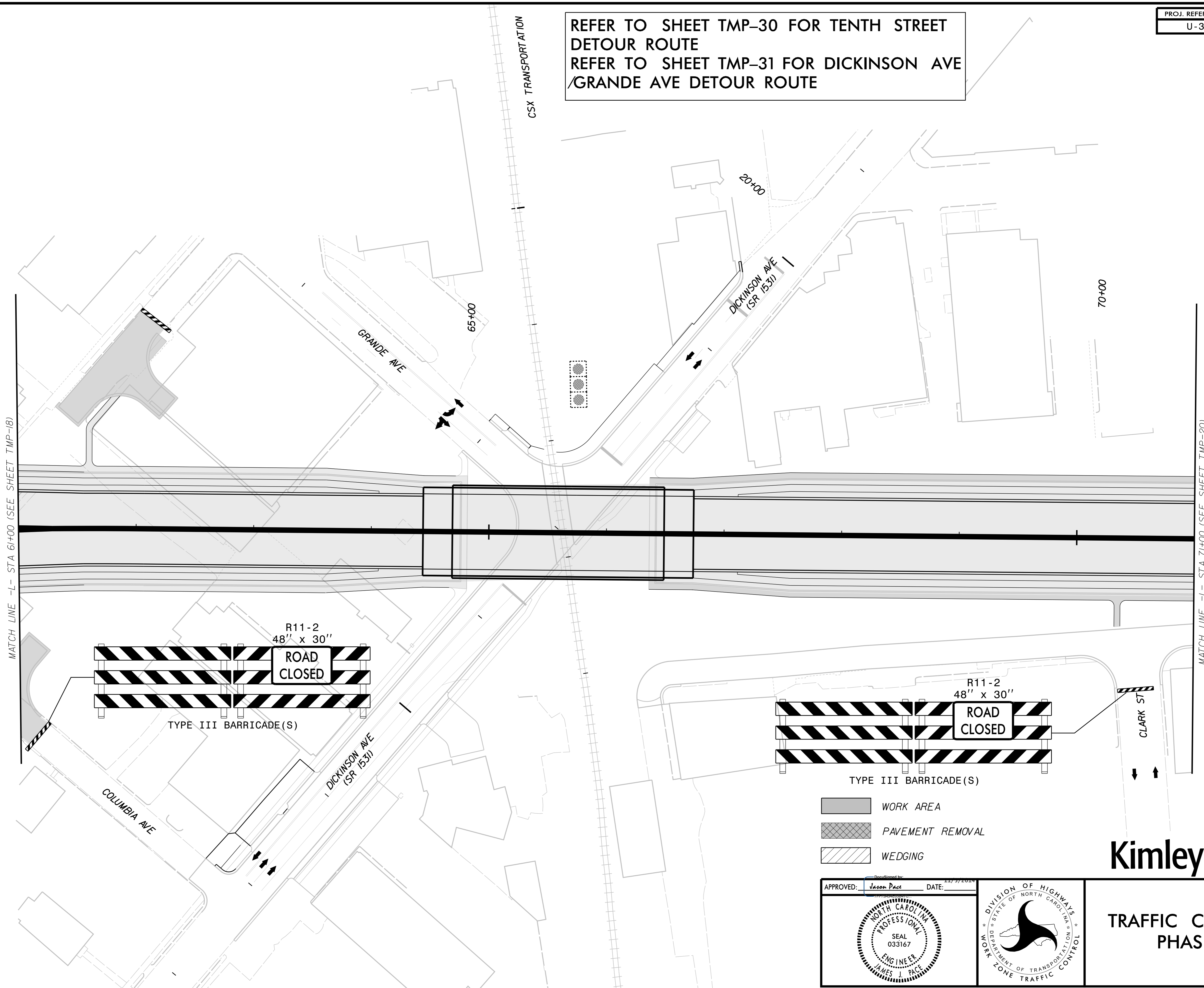



# Kimley»Horn




## TRAFFIC CONTROL PHASE 2

K:\RAL\_Roadway\01036175 (U-3315)\TrafficControl\CP\Sheets\U3315\_TMP\_pshB.dgn 11/4/2014

REFER TO SHEET TMP-30 FOR TENTH STREET  
DETOUR ROUTE  
REFER TO SHEET TMP-31 FOR DICKINSON AVE  
/GRANDE AVE DETOUR ROUTE

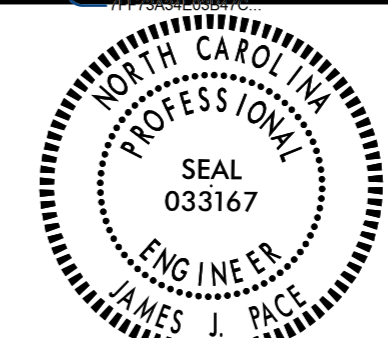
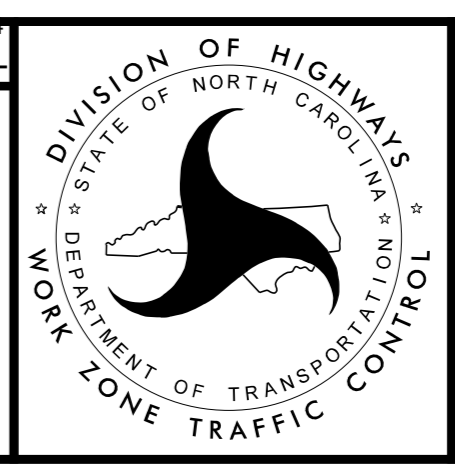


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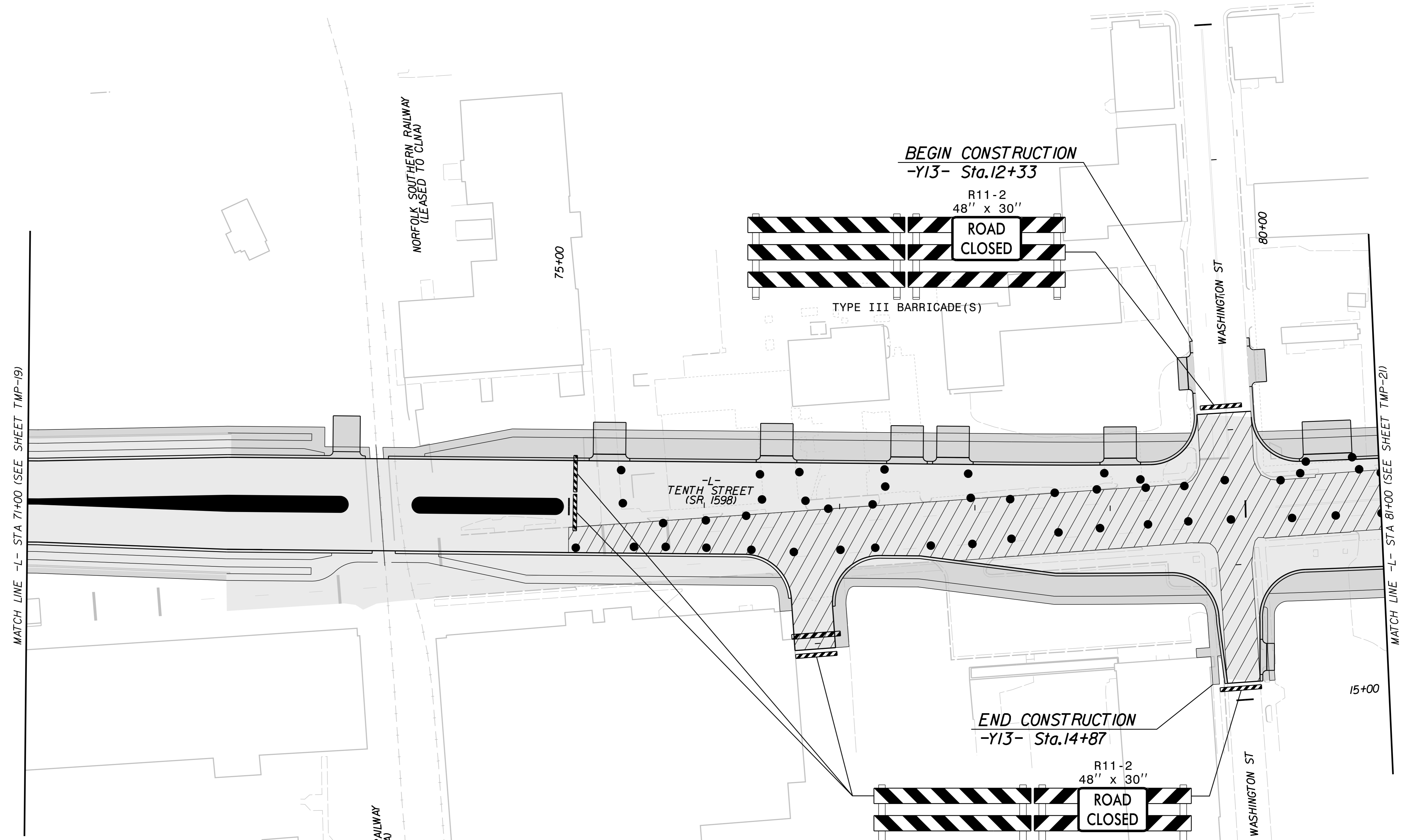
-  WORK AREA
-  PAVEMENT REMOVAL
-  WEDGING

**Kimley»Horn**

APPROVED: Jason Pace DATE: 11/3/2014

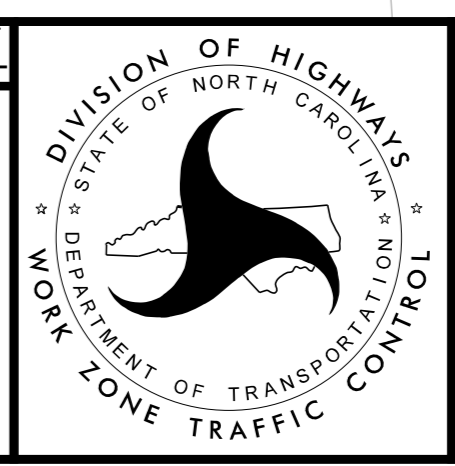
**TRAFFIC CONTROL  
PHASE 2**



- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

**REFER TO SHEET TMP-30 FOR  
WASHINGTON ST DETOUR  
ROUTE AND SIGNING**

APPROVED: Jason Pace DATE: 11/17/2014

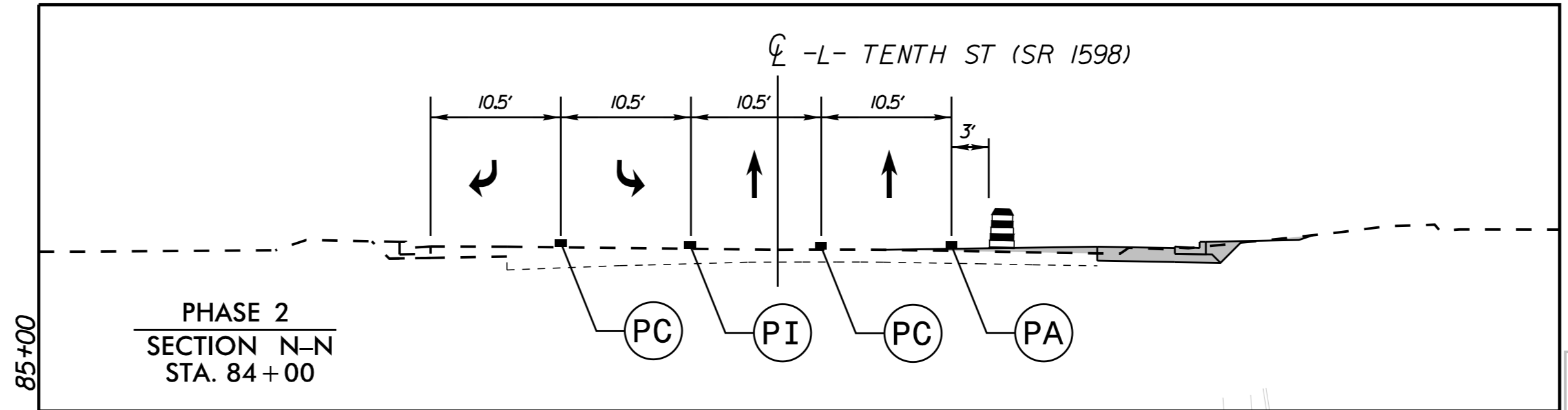


**Kimley»Horn**

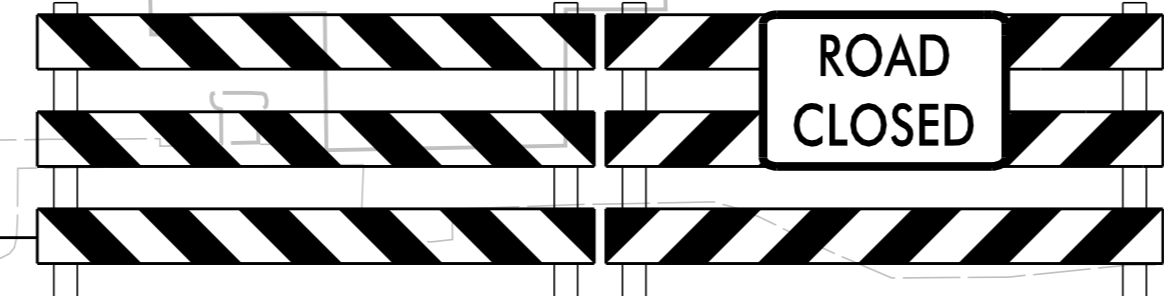
**TRAFFIC CONTROL  
PHASE 2**

11/4/2014 K:\RAL\_Roadway\01036175\_U-3315\TrafficControl\CP\Sheets\U3315\_TMP\_pst20.dgn

REFER TO SHEET TMP-30 FOR TENTH ST DETOUR ROUTE  
REFER TO SHEET TMP-44 FOR PEDESTRIAN DETOUR ROUTES

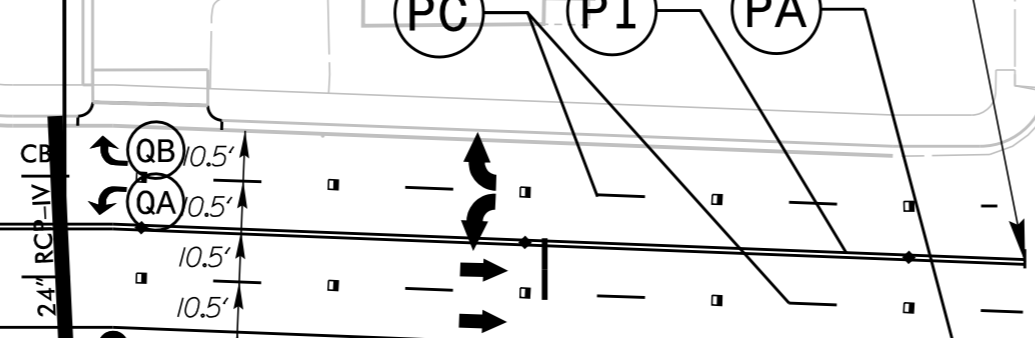


MATCH LINE -L- STA 81+00 (SEE SHEET TMP-20)



TYPE III BARRICADE(S)

-L- STA 83+76  
-L- STA 86+43  
-L- STA 86+00



FORBES ST

-L- STA 88+80

COTANCHE ST

-L- STA 91+00

TENTH STREET (SR 1598)

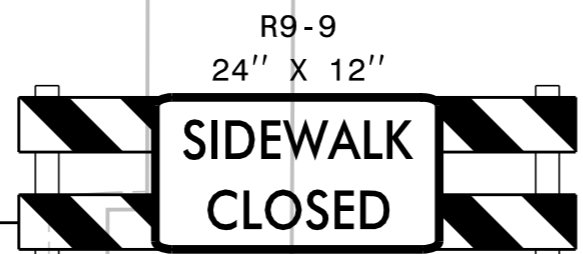
END CONSTRUCTION  
-L- Sta. 86+07

END PAVEMENT MARKINGS  
-L- Sta. 88+00

INSTALL CROSSPIPES USING TEMPORARY LANE CLOSURES (TYP.)

CONSTRUCTION OF WEST SIDE EVANS STREET, SOUTH OF 10TH STREET SHALL NOT OCCUR UNTIL EAST SIDE EVANS STREET, SOUTH OF 10TH STREET IS COMPLETE AND PEDESTRIANS CAN BE MAINTAINED ALONG EAST SIDE EVANS ST

-Y14- EVANS STREET (SR 1702)

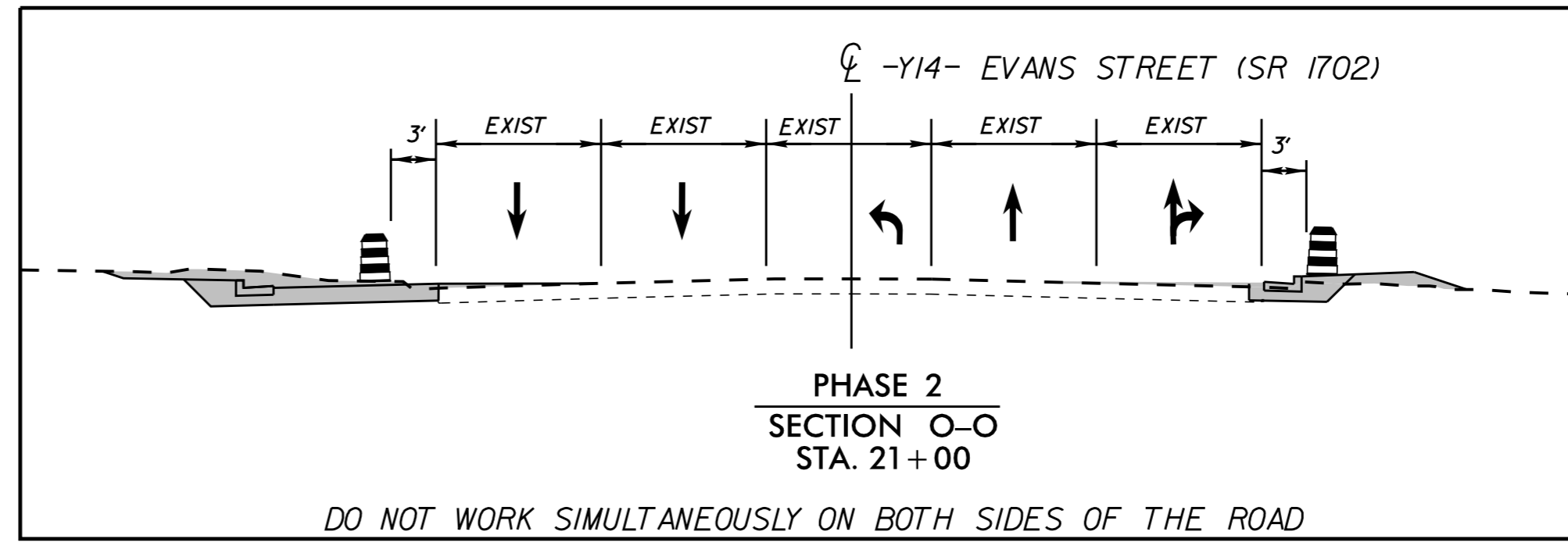


TYPE III BARRICADE (FOR PHASE 2, STEP 5)

END CONSTRUCTION  
-Y14- Sta. 22+77



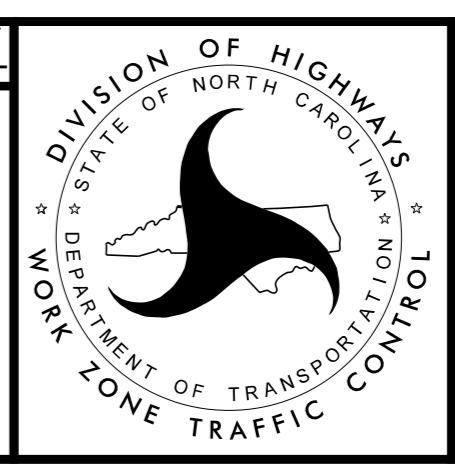
TYPE III BARRICADE (FOR PHASE 2, STEP 6)



- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/17/2014

NORTH CAROLINA PROFESSIONAL SEAL 033167 ENGINEER JAMES J. PACE



Kimley»Horn

TRAFFIC CONTROL PHASE 2

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NAD 83 N/SRS 2007

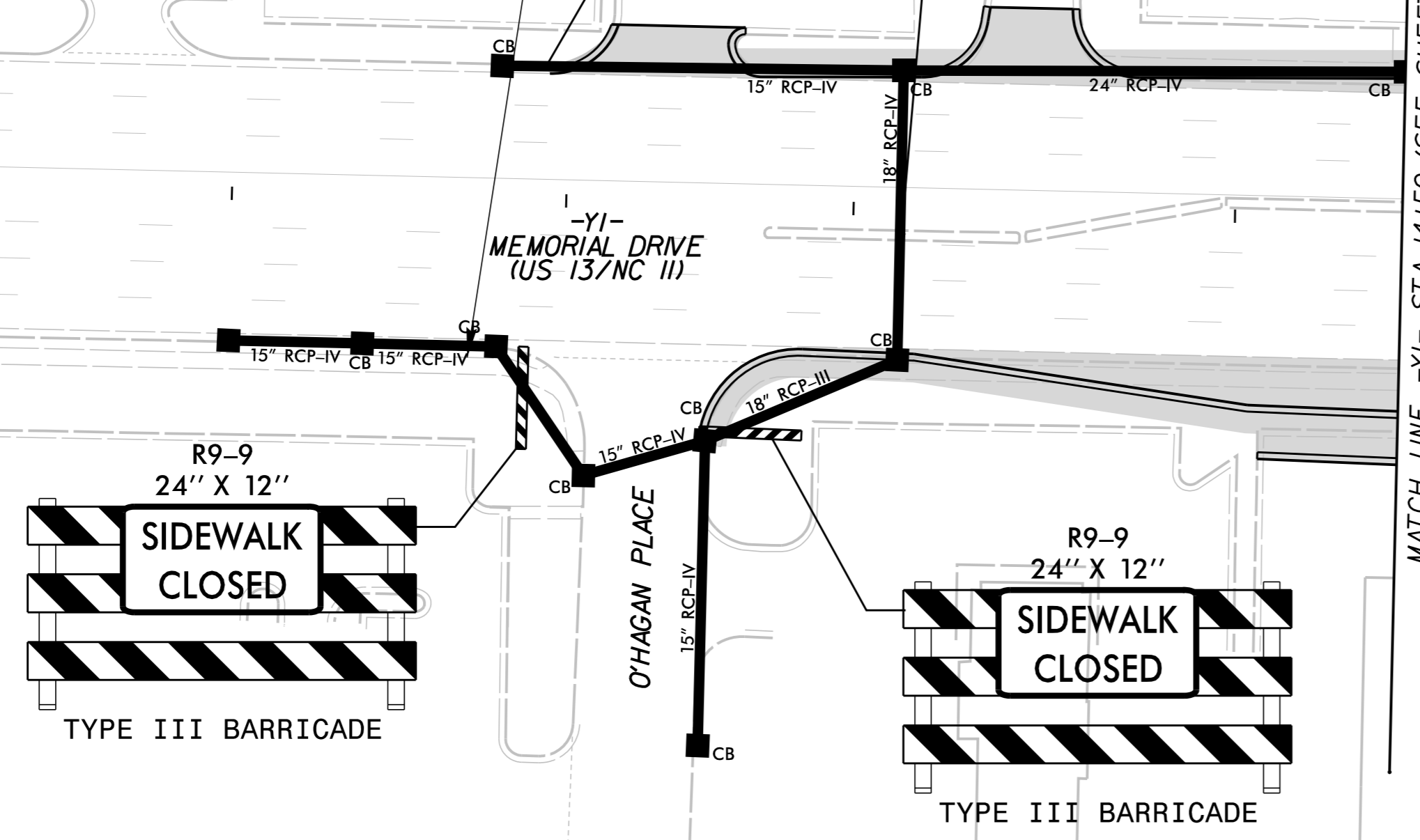
10+00

NAD 83/NSRS 2007

SOUTHBOUND PEDESTRIANS MAY USE EXISTING GREENVILLE AREA TRANSIT (G.R.E.A.T.) ROUTE 6 TO CROSS THE WORK ZONE ALONG NORTH SIDE STANTONSBURG ROAD AND WEST SIDE MEMORIAL DRIVE. SEE LOCAL NOTES.

BEGIN CONSTRUCTION  
-YI- Sta. 11+94

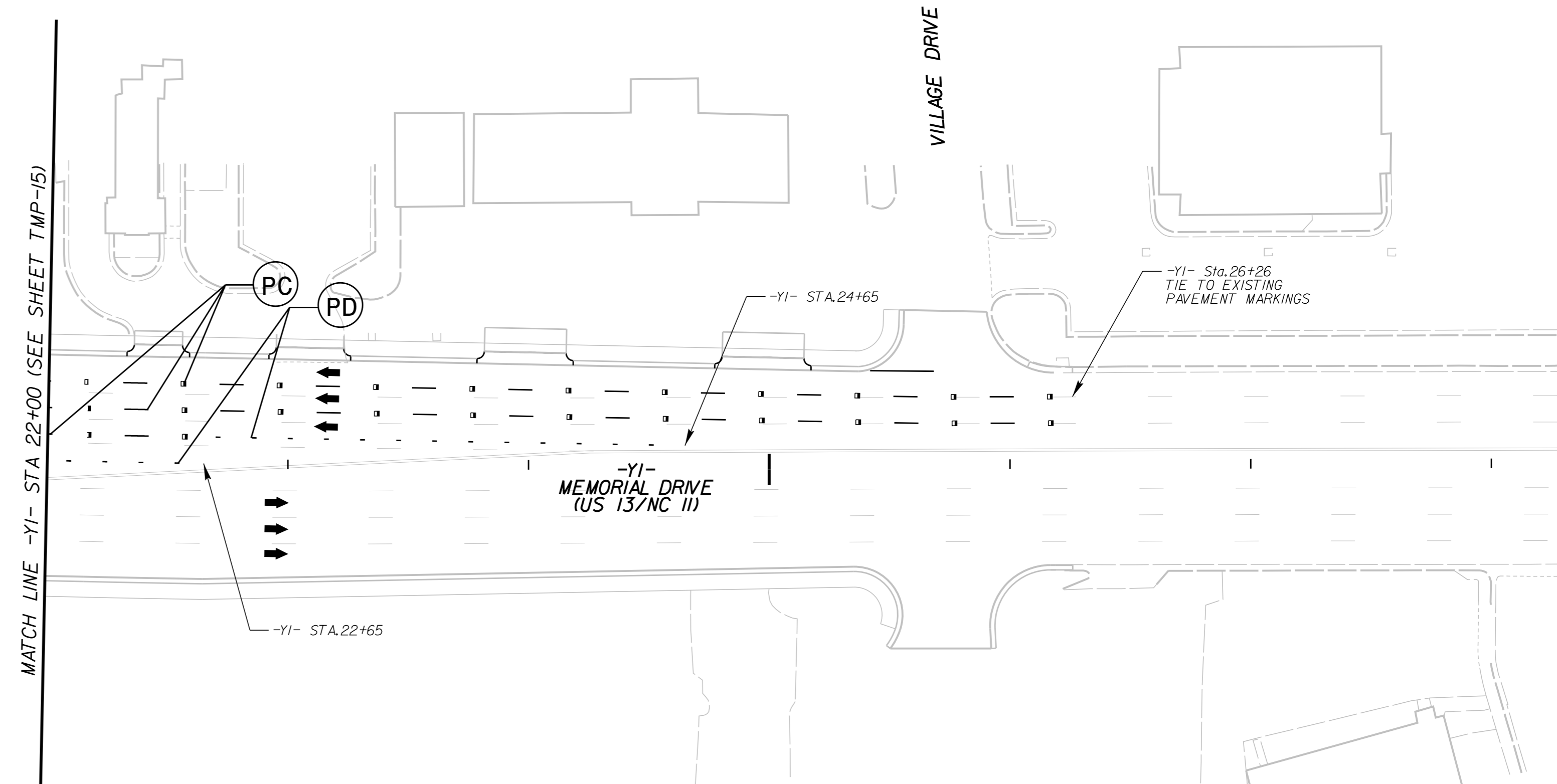
INSTALL CROSSPIPES AND BOXES USING TEMPORARY LANE CLOSURES UNLESS NOTED OTHERWISE (TYP).



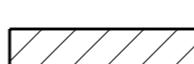


REFER TO SHEET TMP-43 FOR PEDESTRIAN DETOUR ROUTE

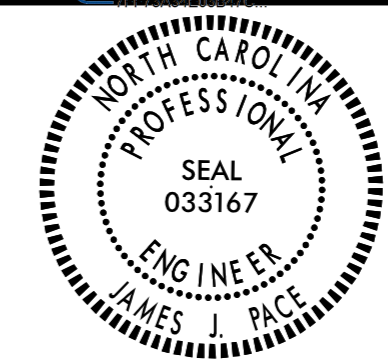
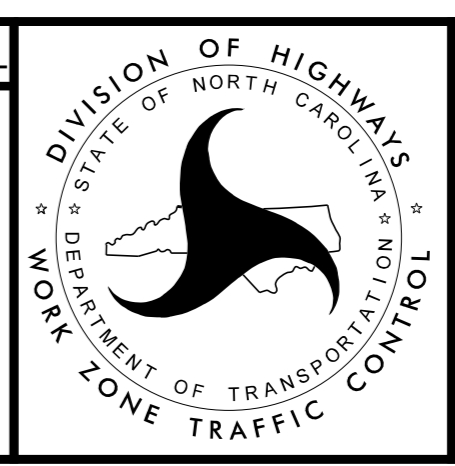
25+00

NAD 83/NSRS 2007



-  WORK AREA
-  PAVEMENT REMOVAL
-  WEDGING

APPROVED: Jason Pace DATE: 11/9/2014

# Kimley»Horn

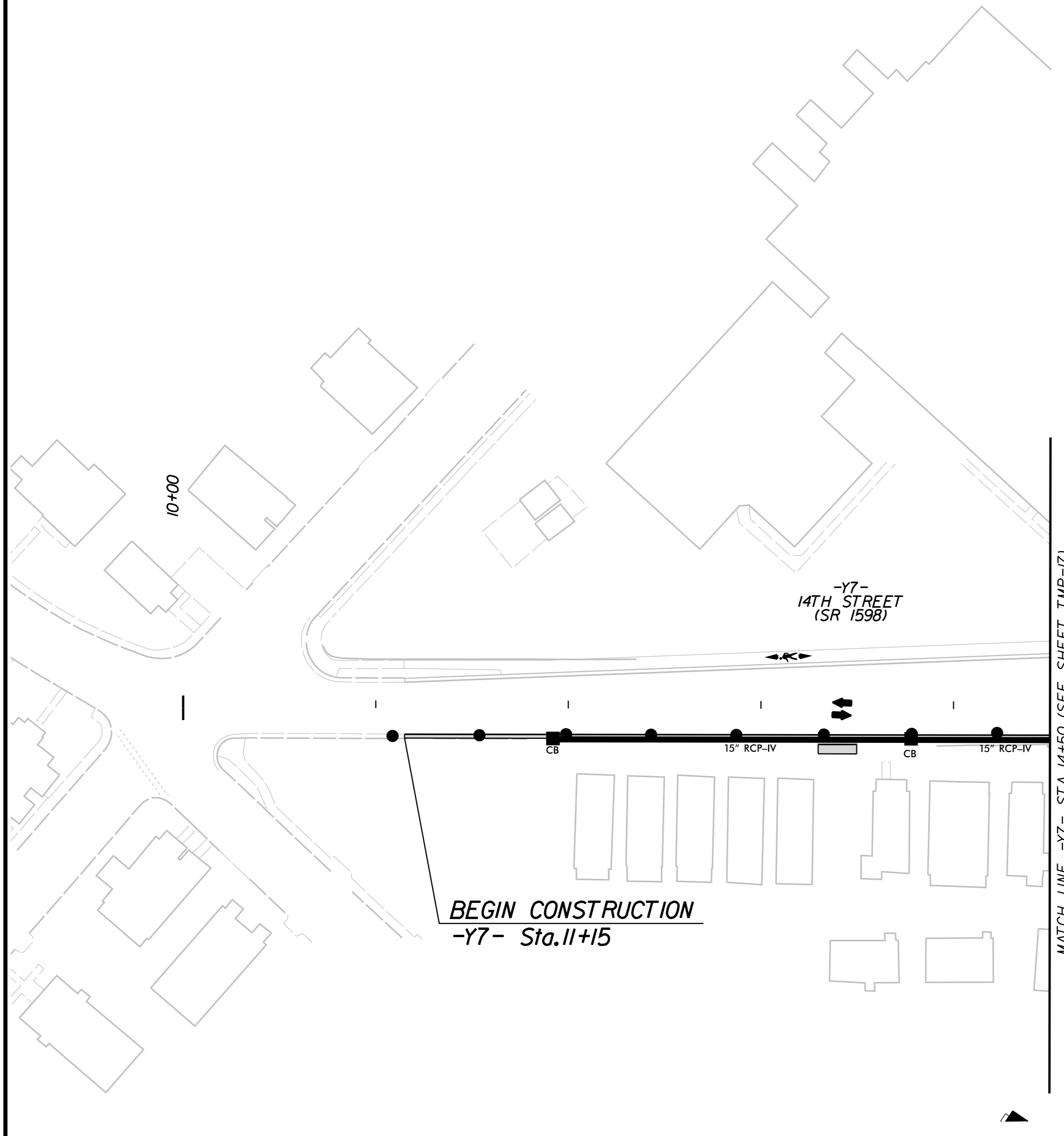
## TRAFFIC CONTROL PHASE 2

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NAD 83/NSRS 2007

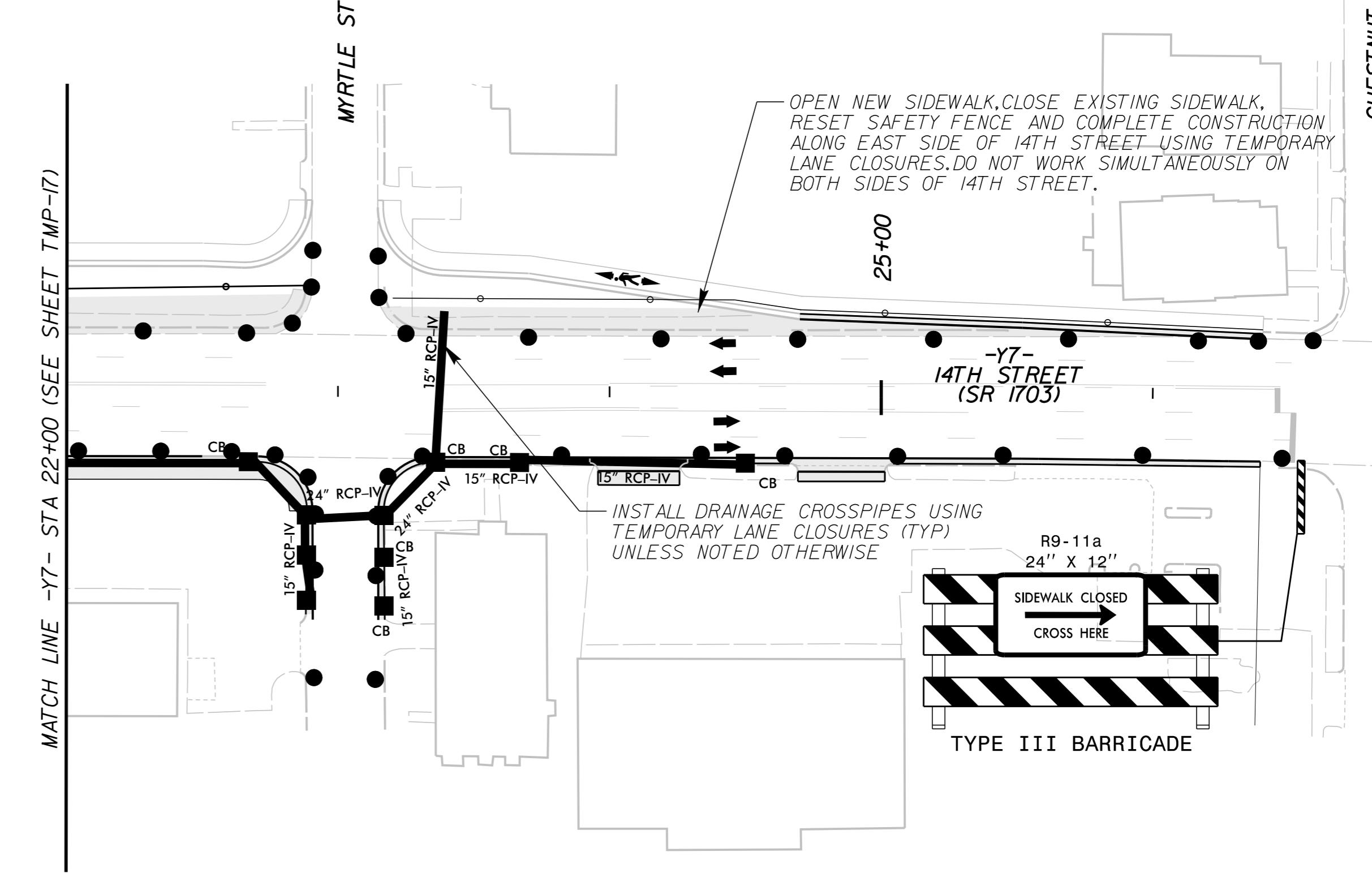
NAD 83/NSRS 2007

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11/4/2014



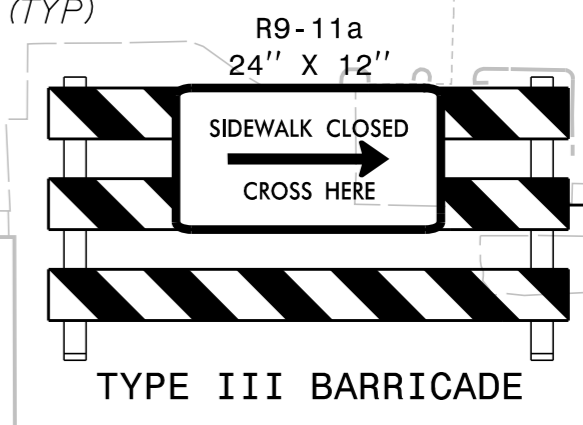
**BEGIN CONSTRUCTION**  
-Y7- Sta. 11+15

MATCH LINE -Y7- STA 14+50 (SEE SHEET TMP-17)



OPEN NEW SIDEWALK, CLOSE EXISTING SIDEWALK, RESET SAFETY FENCE AND COMPLETE CONSTRUCTION ALONG EAST SIDE OF 14TH STREET USING TEMPORARY LANE CLOSURES. DO NOT WORK SIMULTANEOUSLY ON BOTH SIDES OF 14TH STREET.

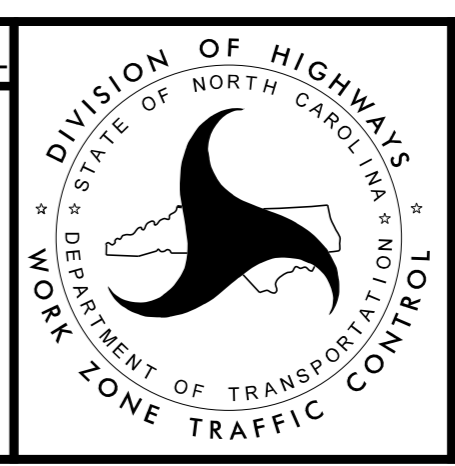
INSTALL DRAINAGE CROSSPIPES USING TEMPORARY LANE CLOSURES (TYP) UNLESS NOTED OTHERWISE



MATCH LINE -Y7- STA 22+00 (SEE SHEET TMP-17)

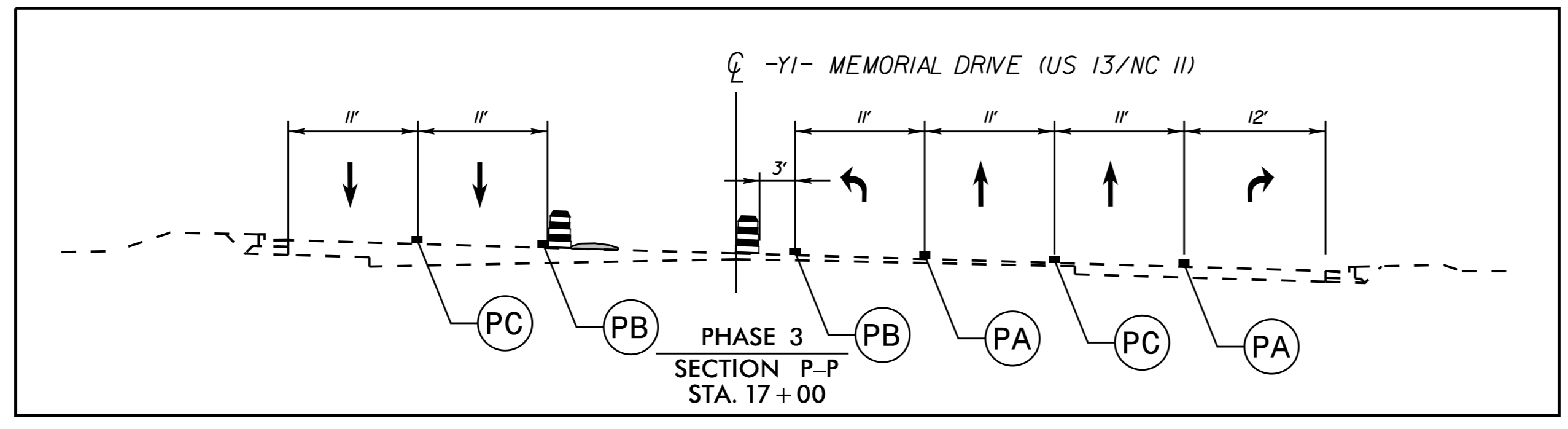
- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/4/2014



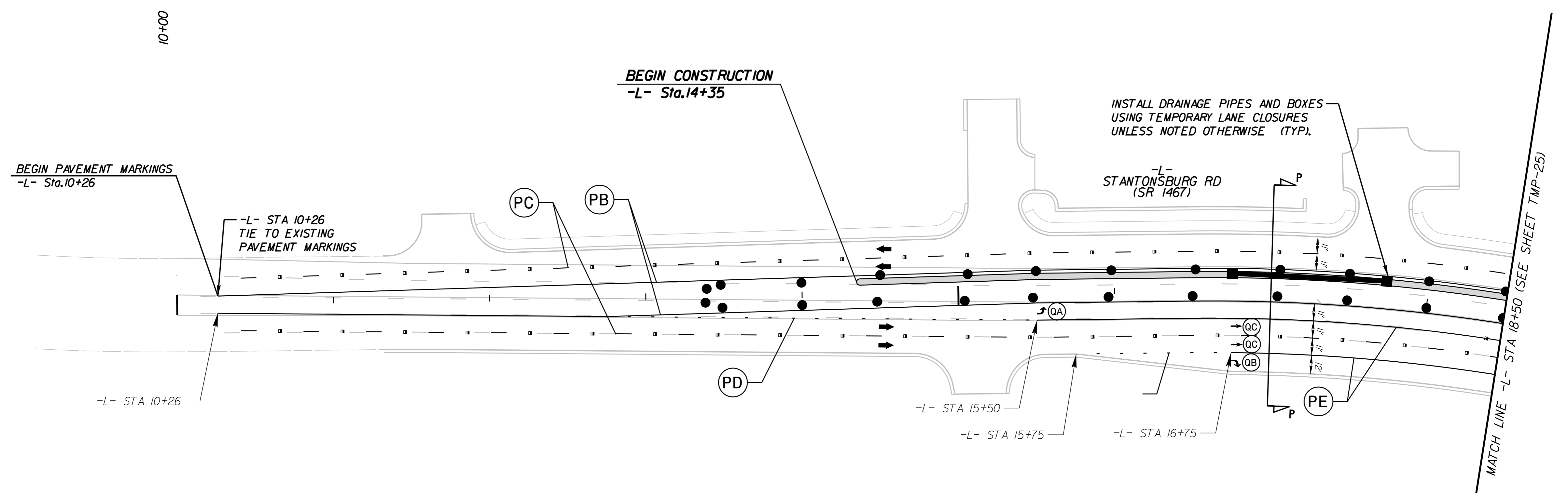
# Kimley»Horn

## TRAFFIC CONTROL PHASE 2



15+00

NAD 83/NSRS 2007

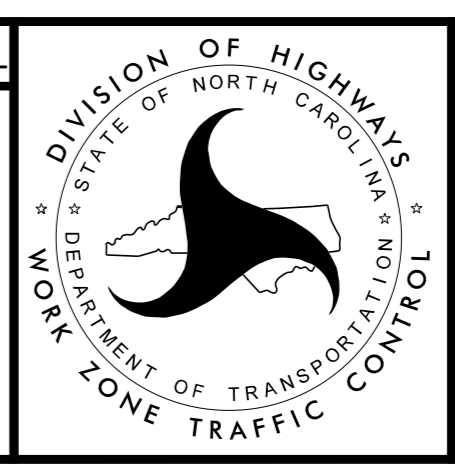


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11/4/2014

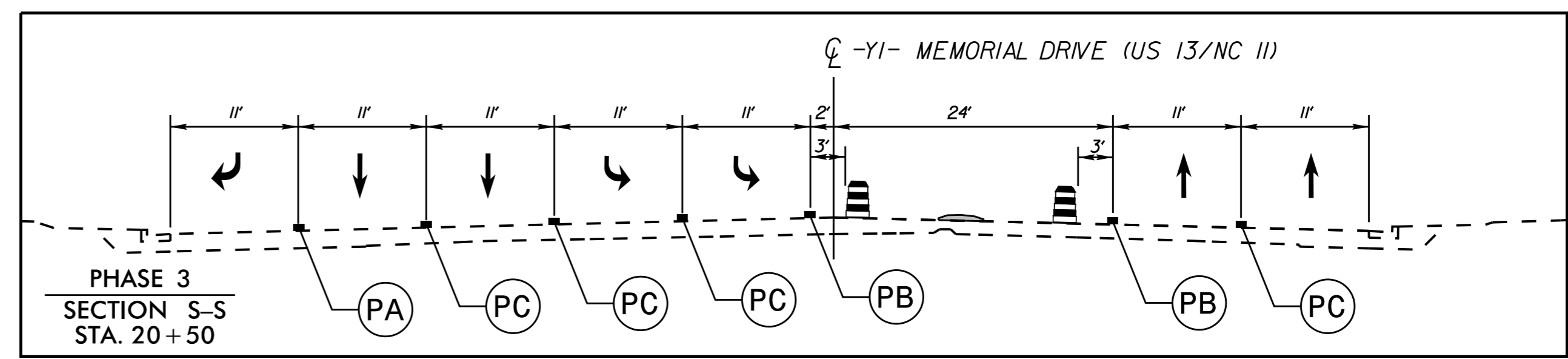
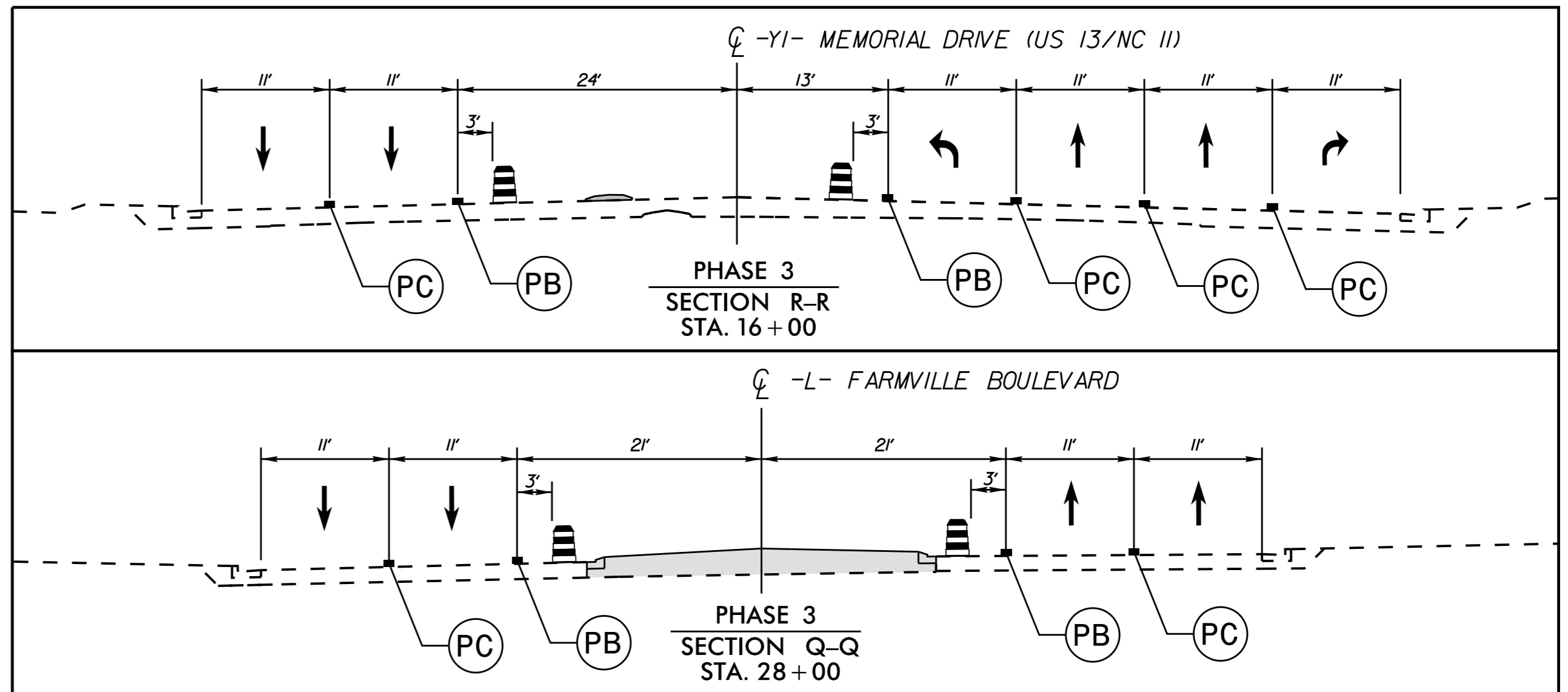
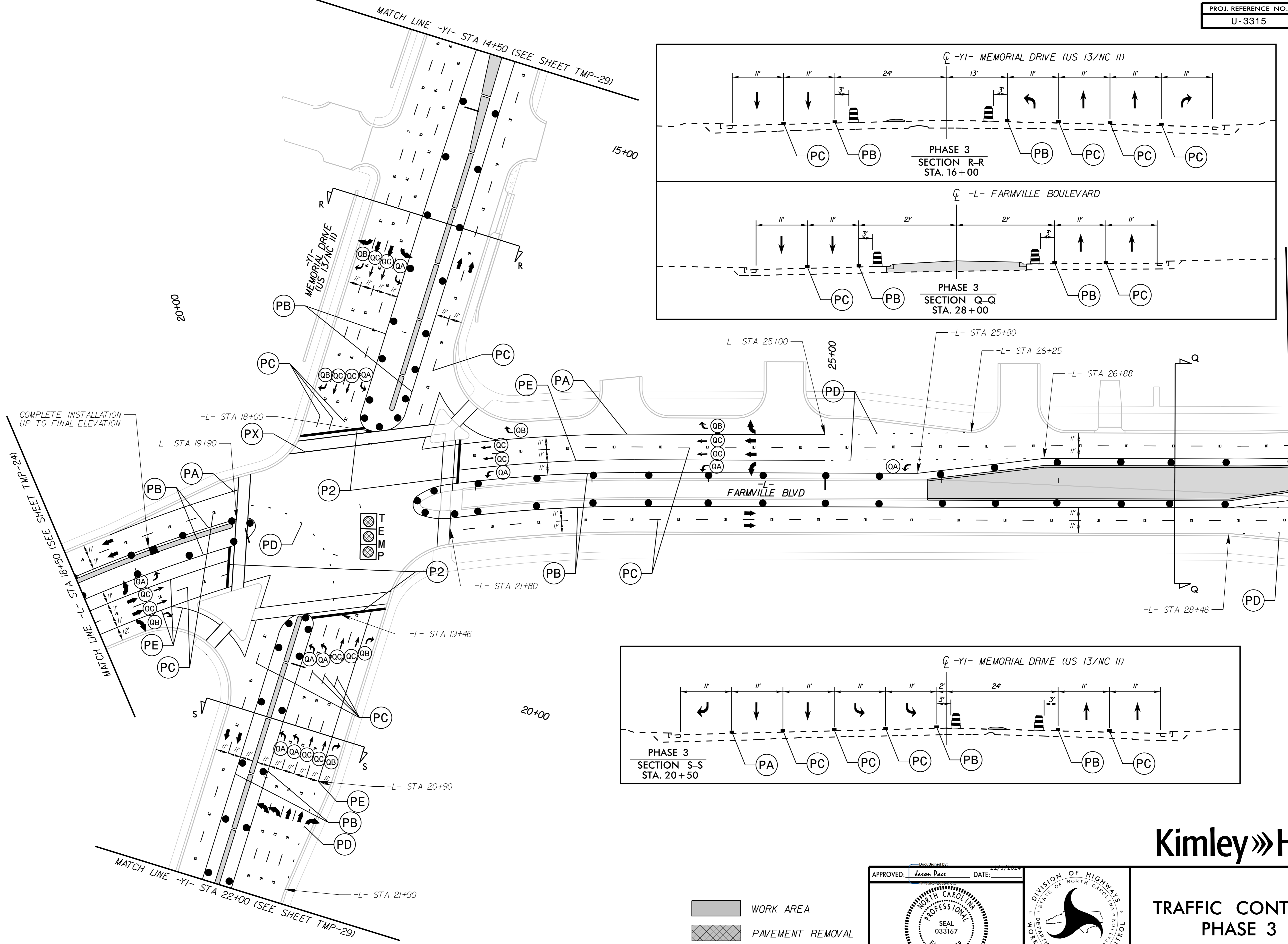
- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/19/2014



# Kimley»Horn

## TRAFFIC CONTROL PHASE 3



NAD 83/NSRS 2007

COMPLETE INSTALLATION UP TO FINAL ELEVATION

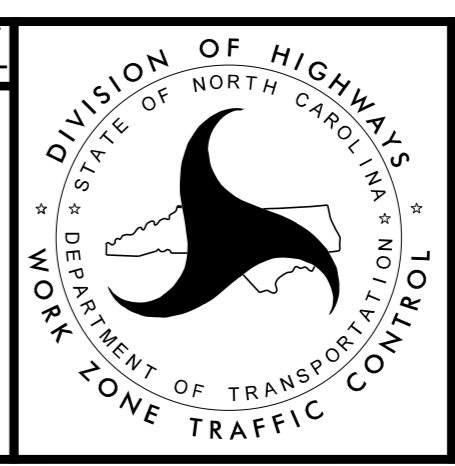
MATCH LINE -L- STA 18+50 (SEE SHEET TMP-24)

MATCH LINE -YI- STA 22+00 (SEE SHEET TMP-29)

MATCH LINE -L- STA 29+00 (SEE SHEET TMP-26)

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/17/2014

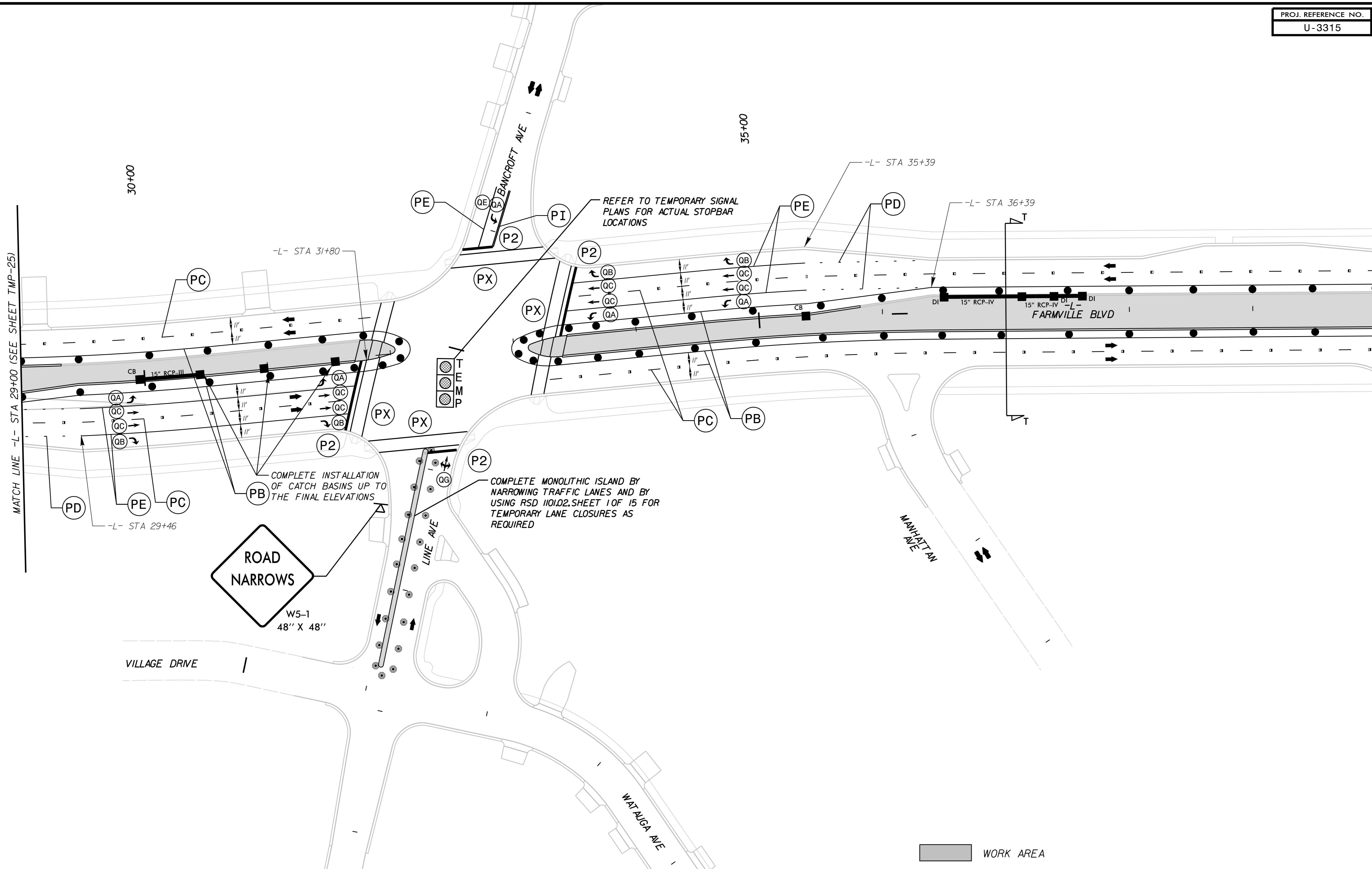


# Kimley»Horn

## TRAFFIC CONTROL PHASE 3

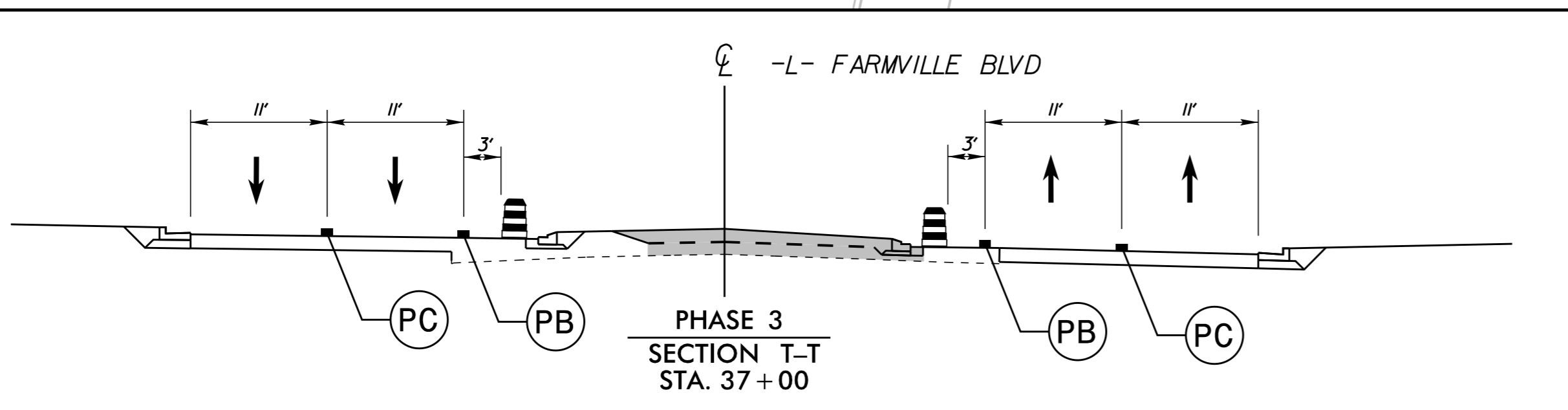
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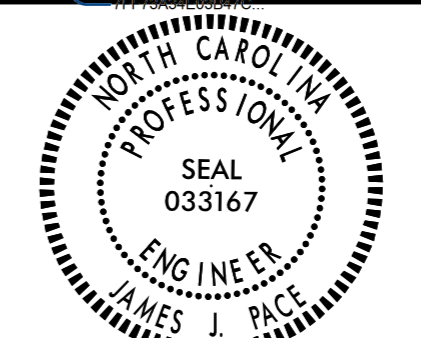




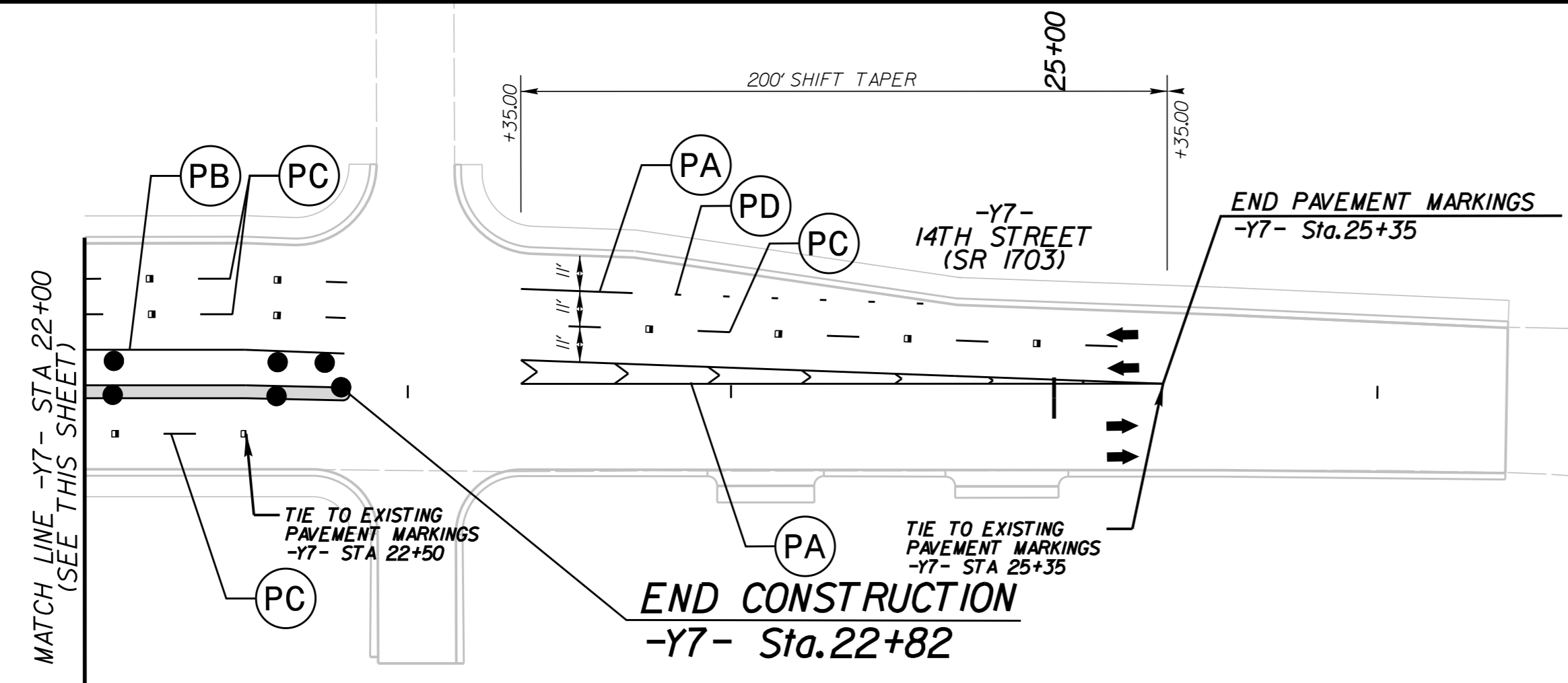
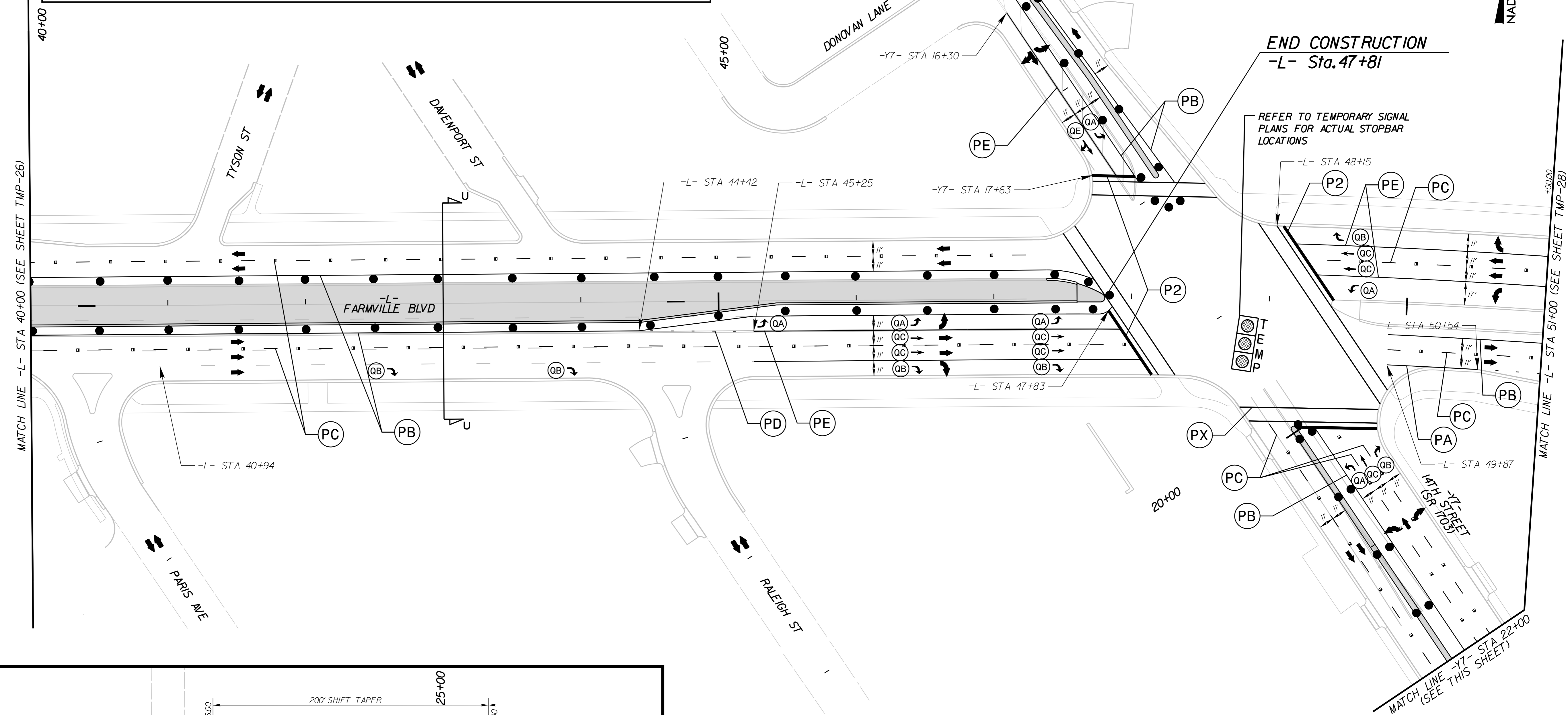
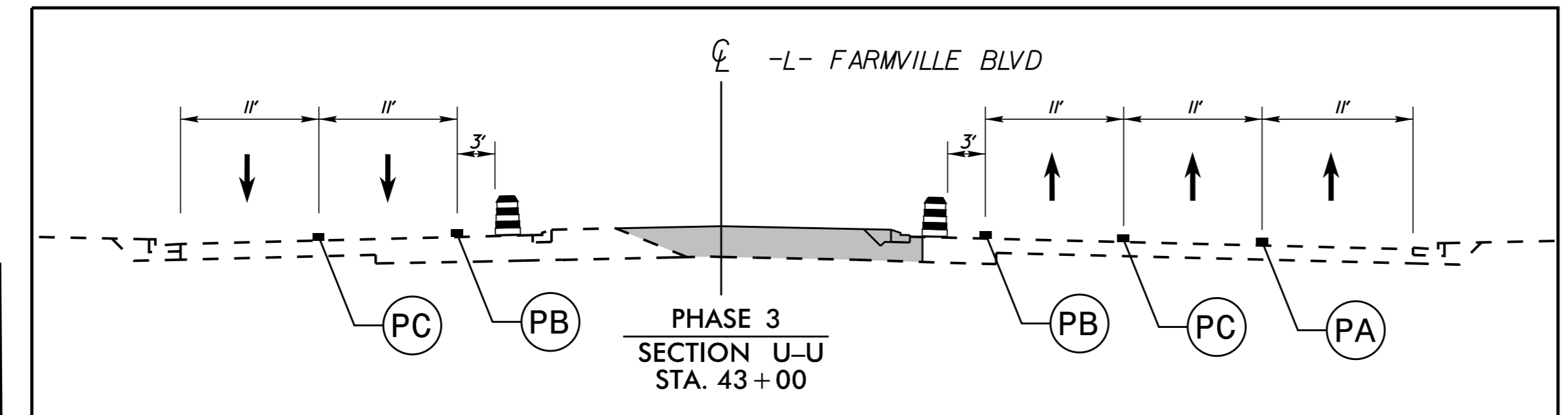
NAD 83/NRS 2007

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING



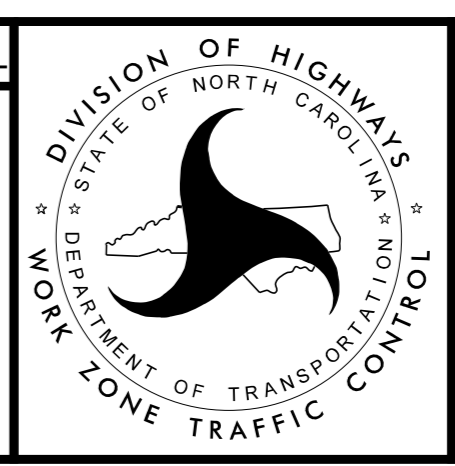
APPROVED: <u>Jason Pace</u>	DATE: <u>11/27/2014</u>	 DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	<h1 style="margin: 0;">Kimley»Horn</h1> <h2 style="margin: 0;">TRAFFIC CONTROL PHASE 3</h2>
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033167 JAMES J. PACE			

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- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

APPROVED: Jason Pace DATE: 11/17/2014

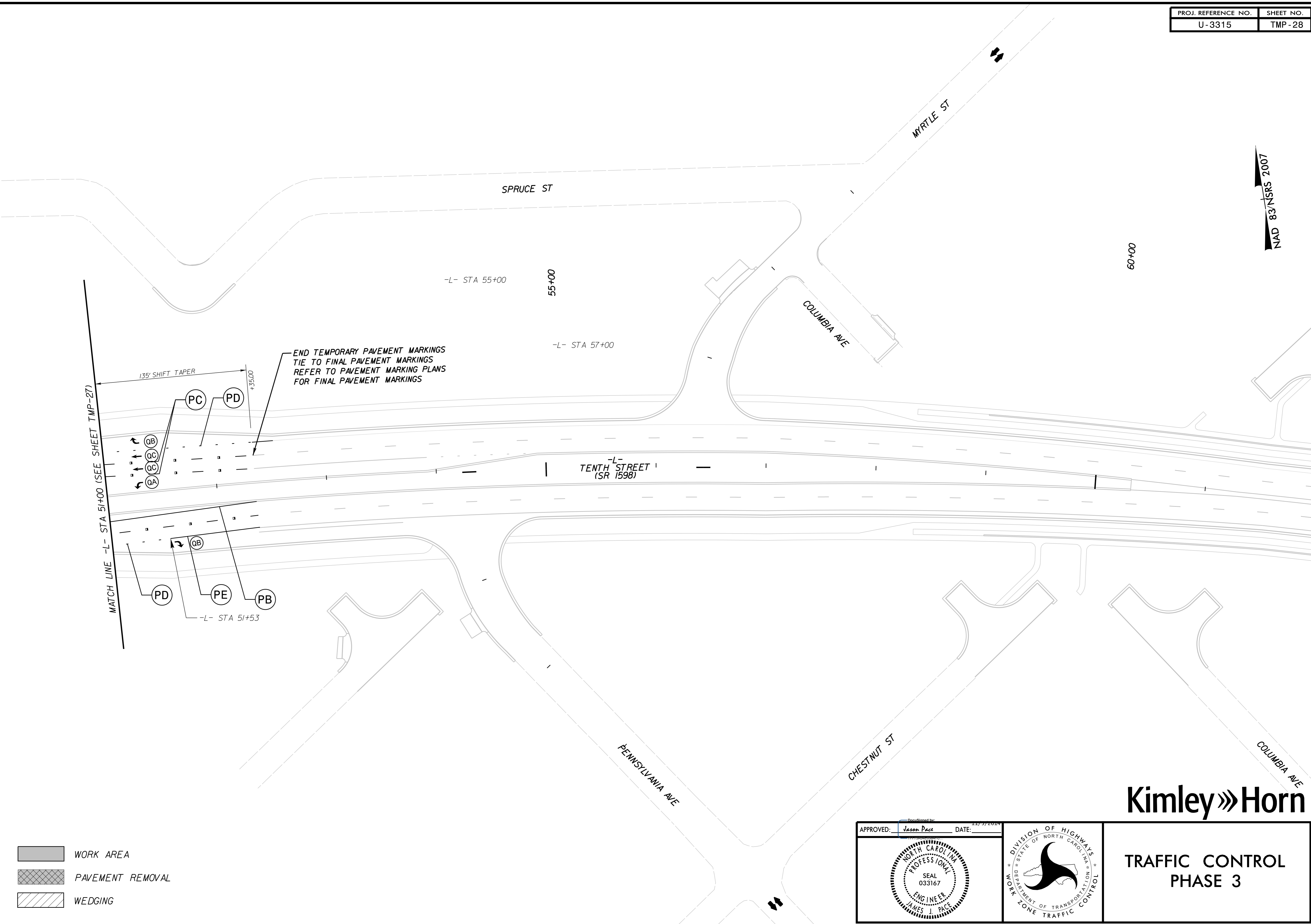




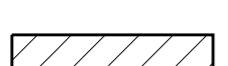
**Kimley»Horn**

**TRAFFIC CONTROL  
PHASE 3**

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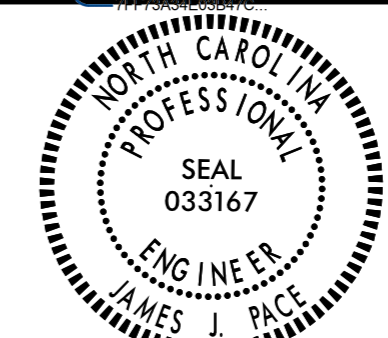
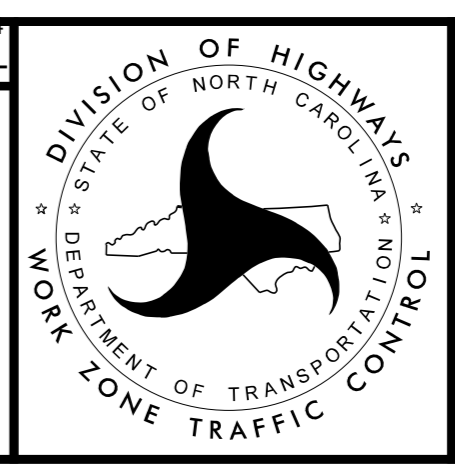
NAD 83/NSRS 2007



-  WORK AREA
-  PAVEMENT REMOVAL
-  WEDGING

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APPROVED: Jason Pace DATE: 11/3/2014

**Kimley»Horn**

**TRAFFIC CONTROL  
PHASE 3**

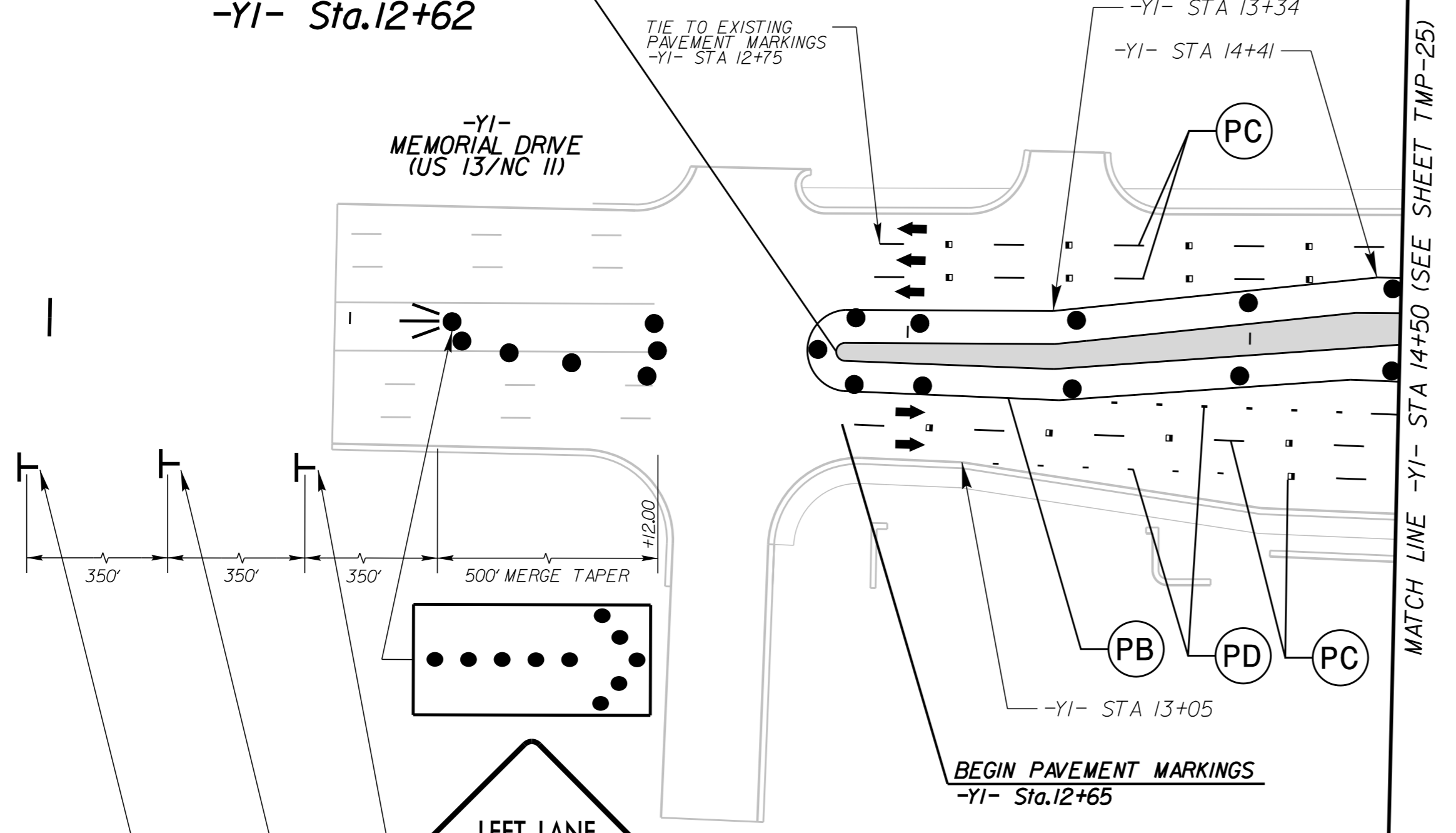
NAD 83/NSRS 2007

NAD 83/NSRS 2007

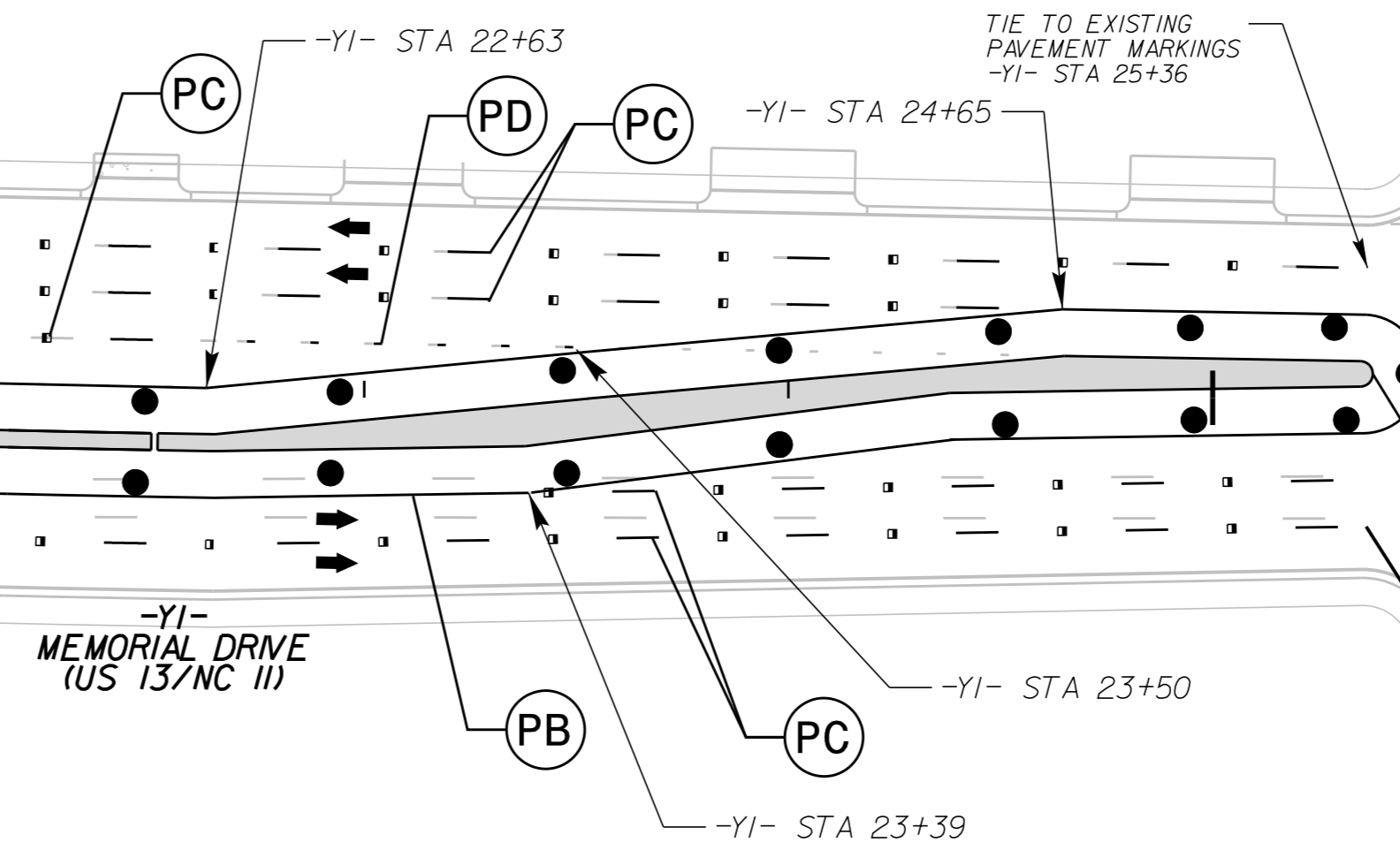
10+00

25+00

**BEGIN CONSTRUCTION**  
-YI- Sta.12+62



MATCH LINE -YI- STA 22+00 (SEE SHEET TMP-25)

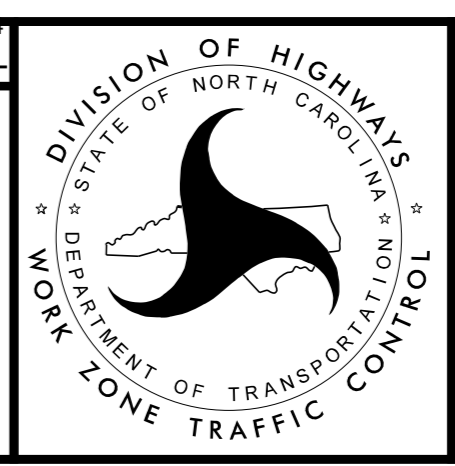


**END CONSTRUCTION**  
-YI- Sta.25+38

**END PAVEMENT MARKINGS**  
-YI- Sta.25+36

- WORK AREA
- PAVEMENT REMOVAL
- WEDGING

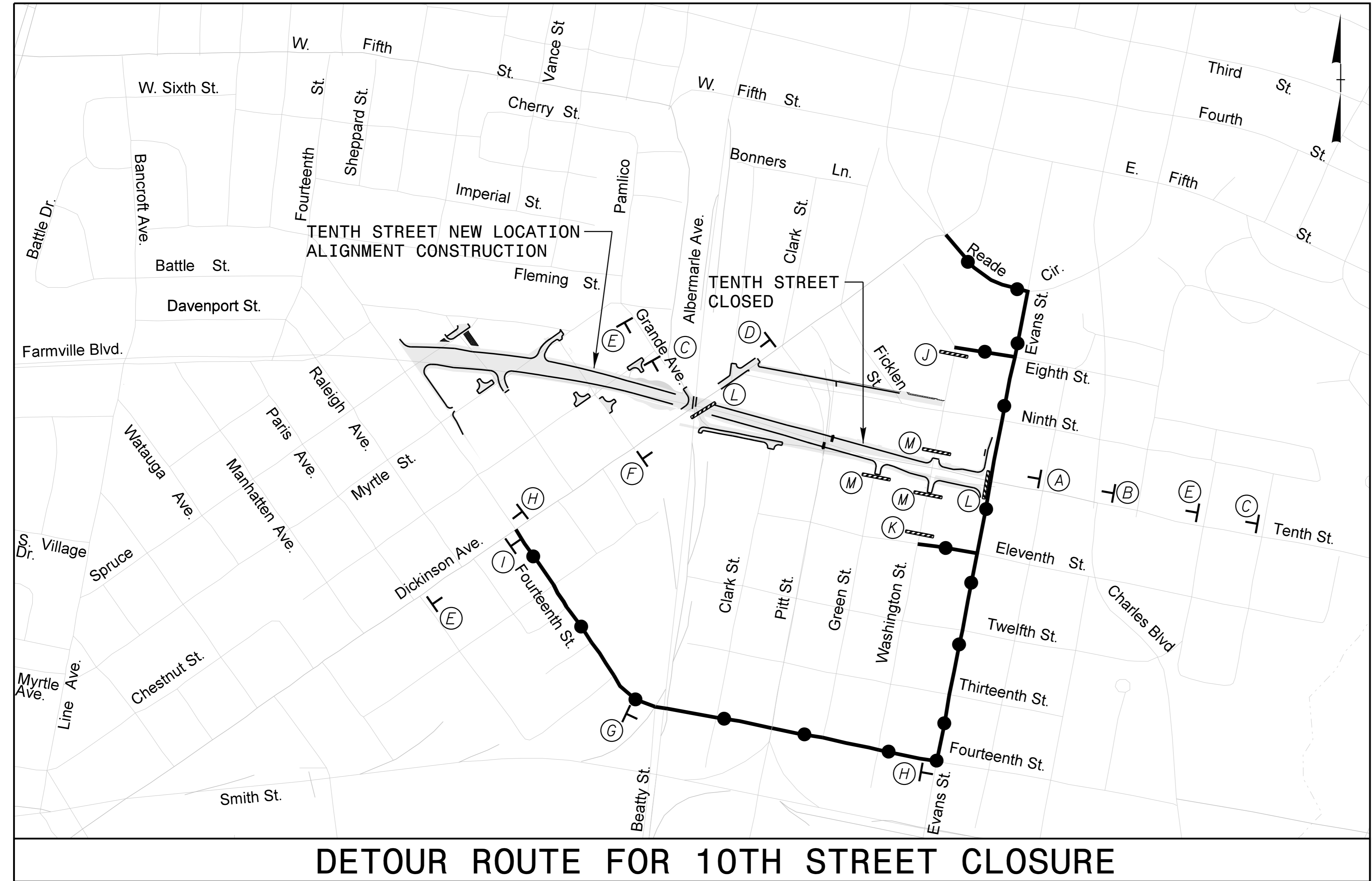
APPROVED: Jason Pace DATE: 11/17/2014



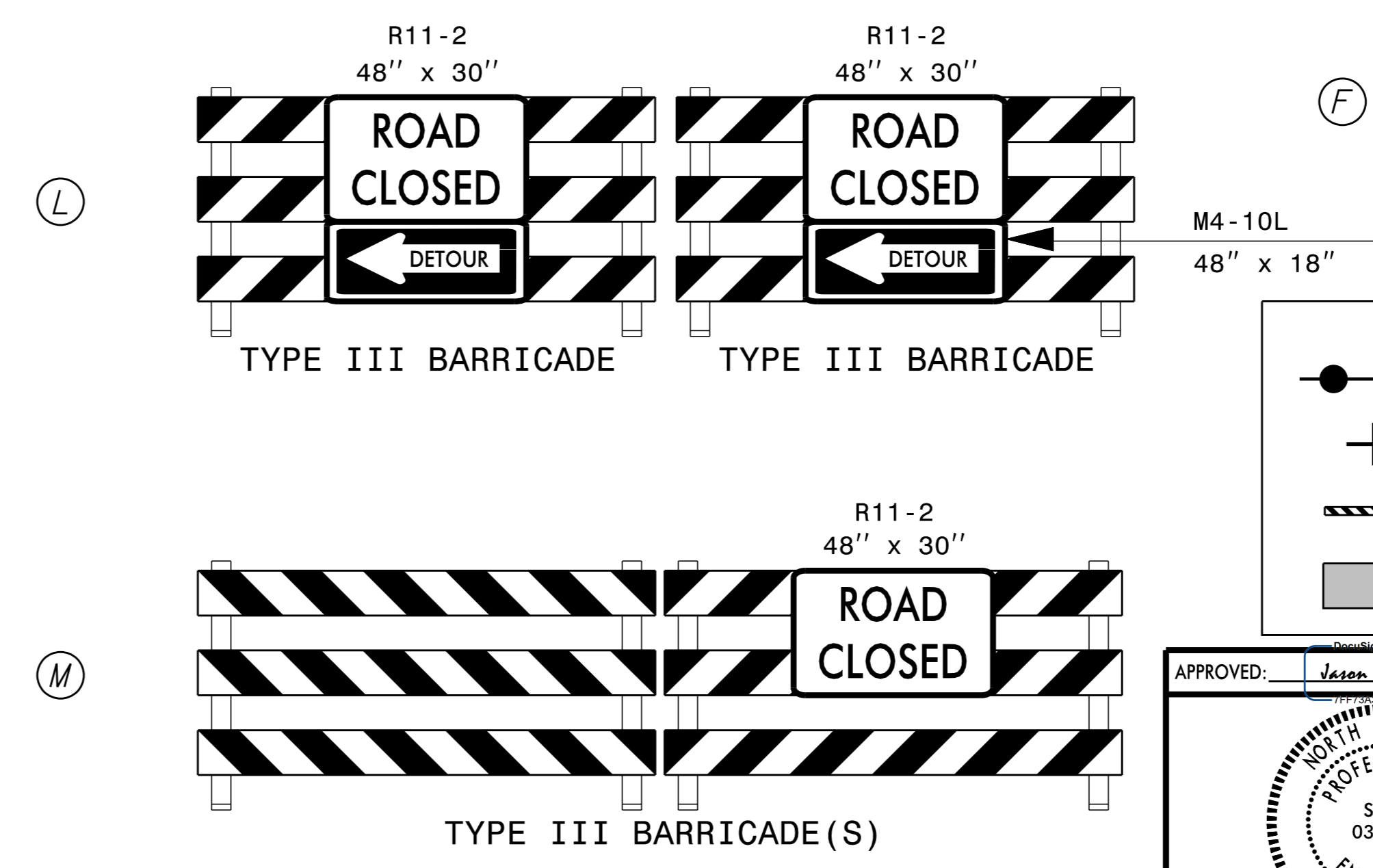
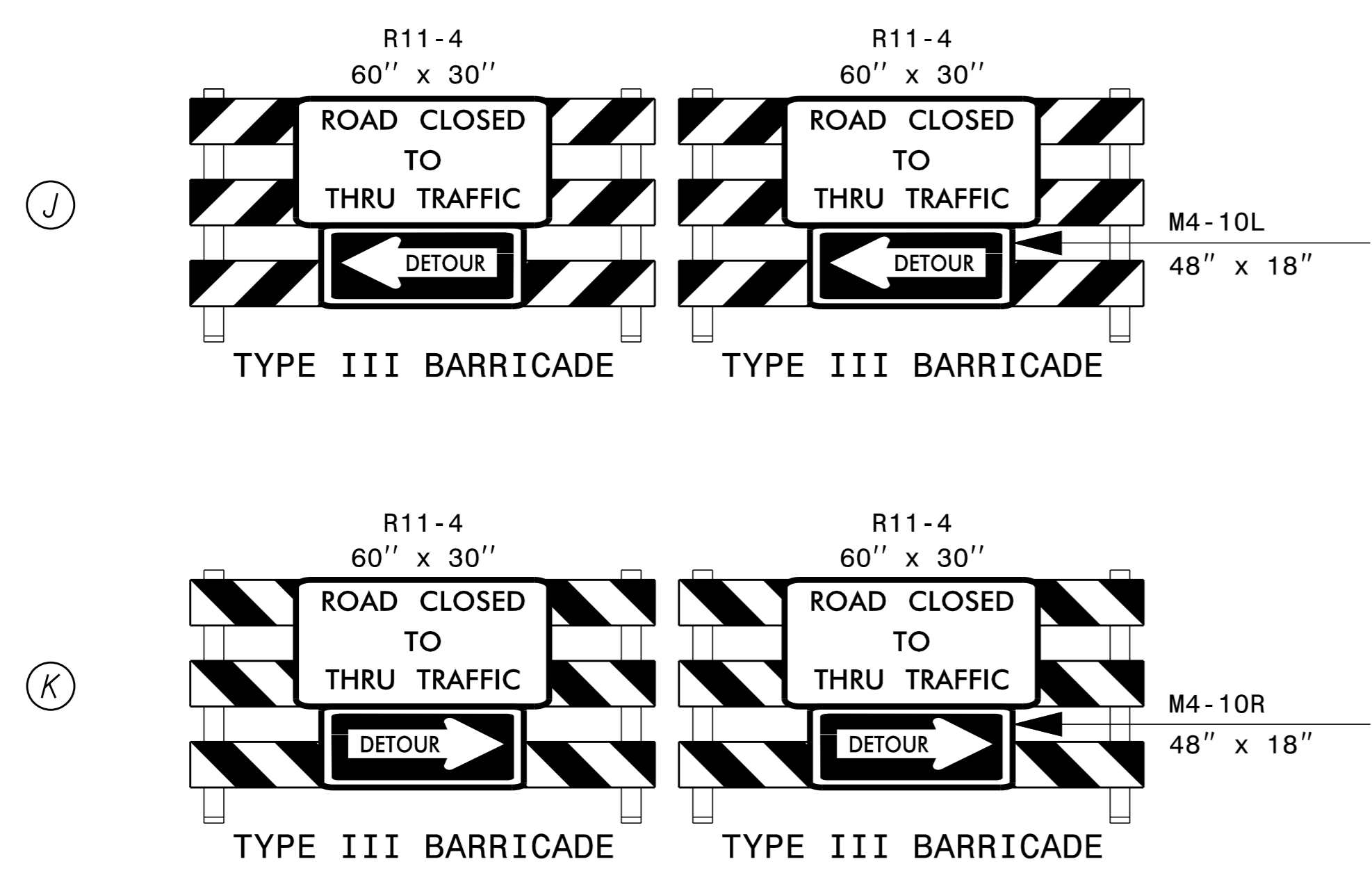
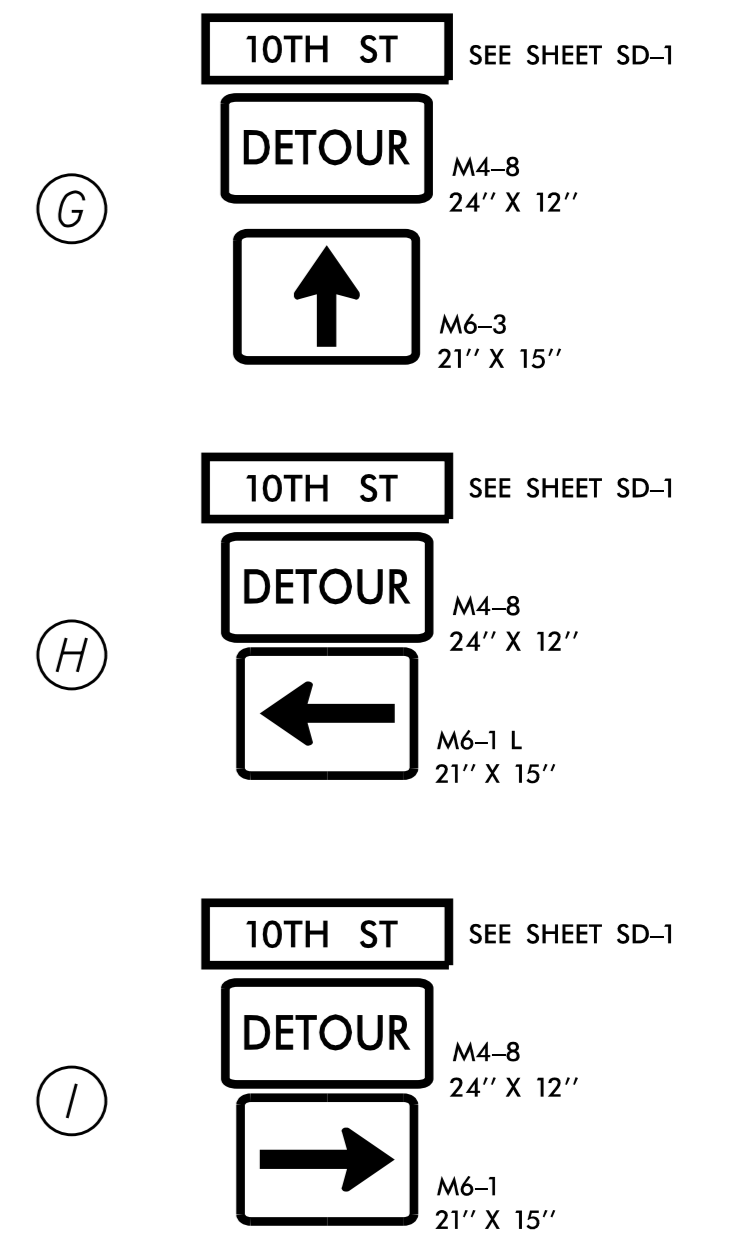
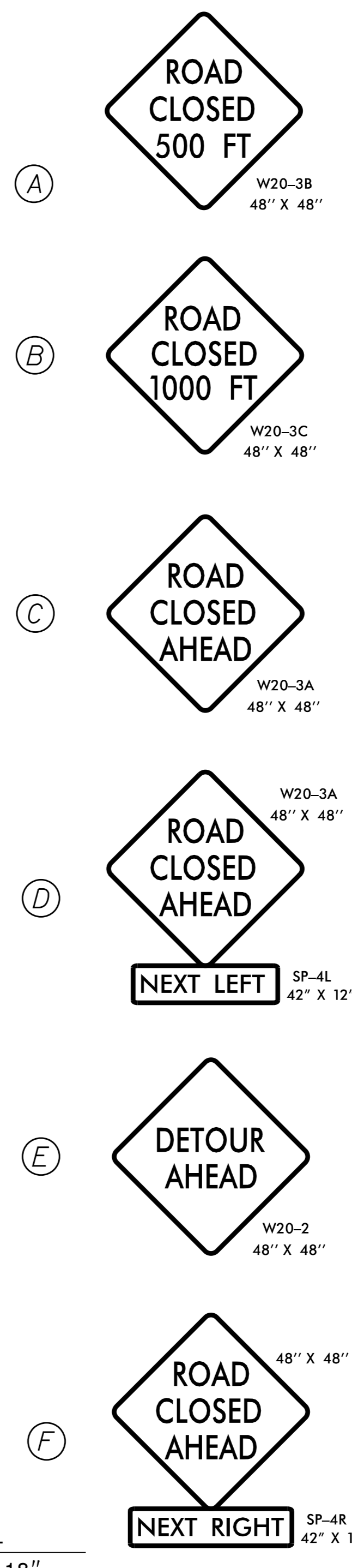
# Kimley»Horn

## TRAFFIC CONTROL PHASE 3

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### DETOUR ROUTE FOR 10TH STREET CLOSURE



**LEGEND**

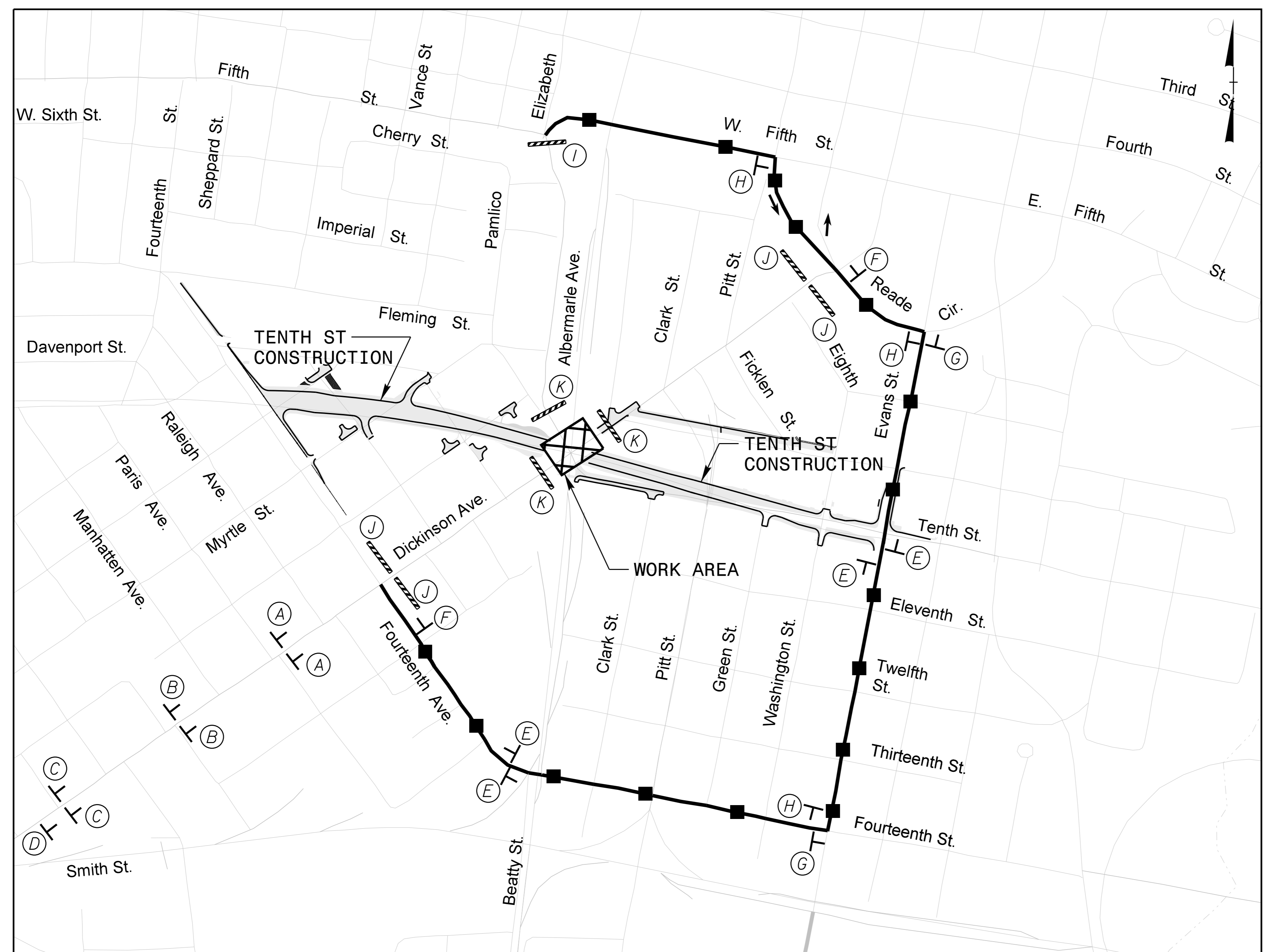
- DETOUR ROUTE
- + STATIONARY SIGN
- ▨ BARRICADE
- WORK ZONE

APPROVED: Jason Pace DATE: 2/17/2014

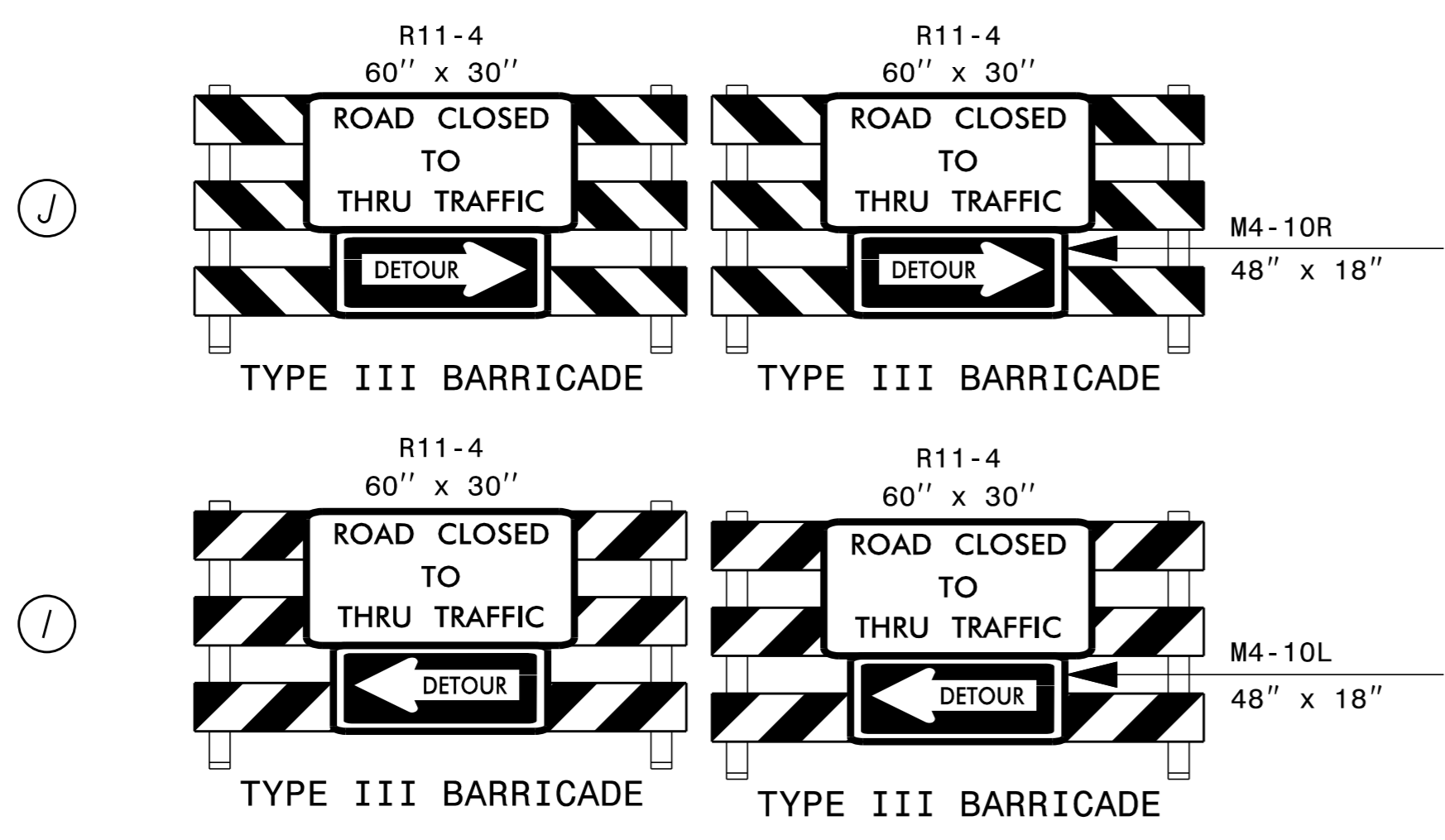
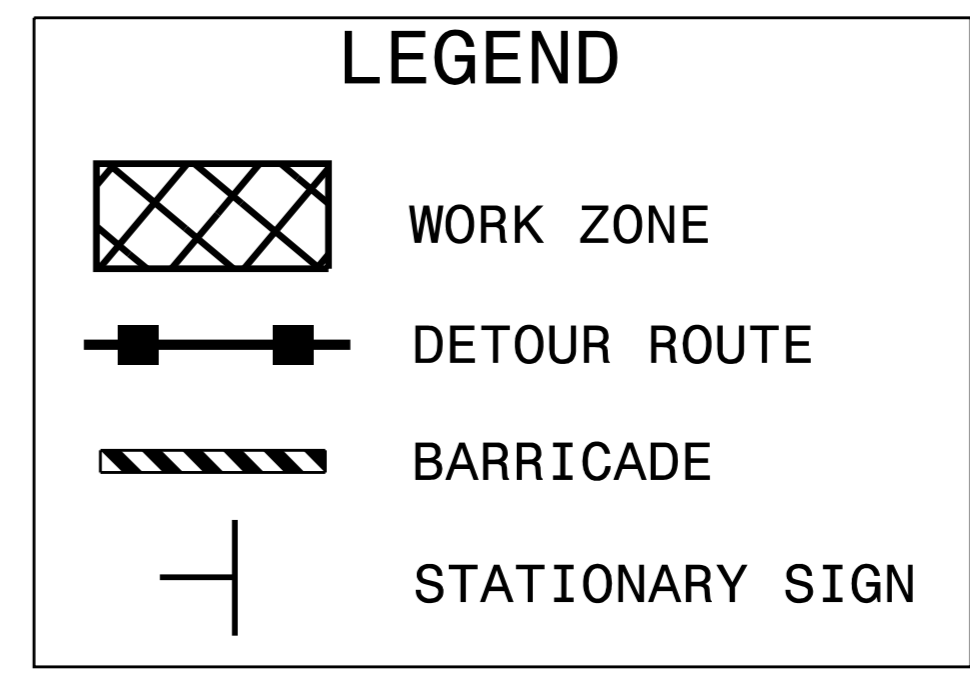
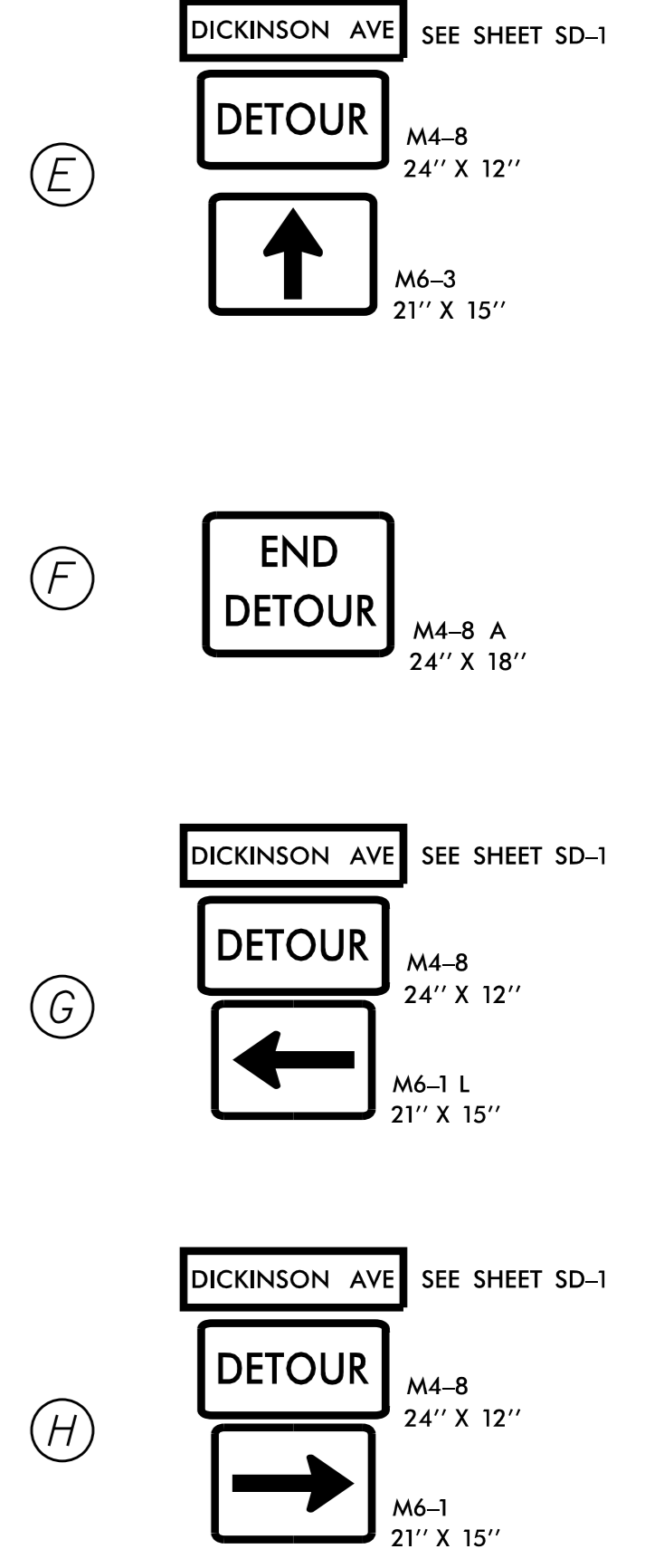
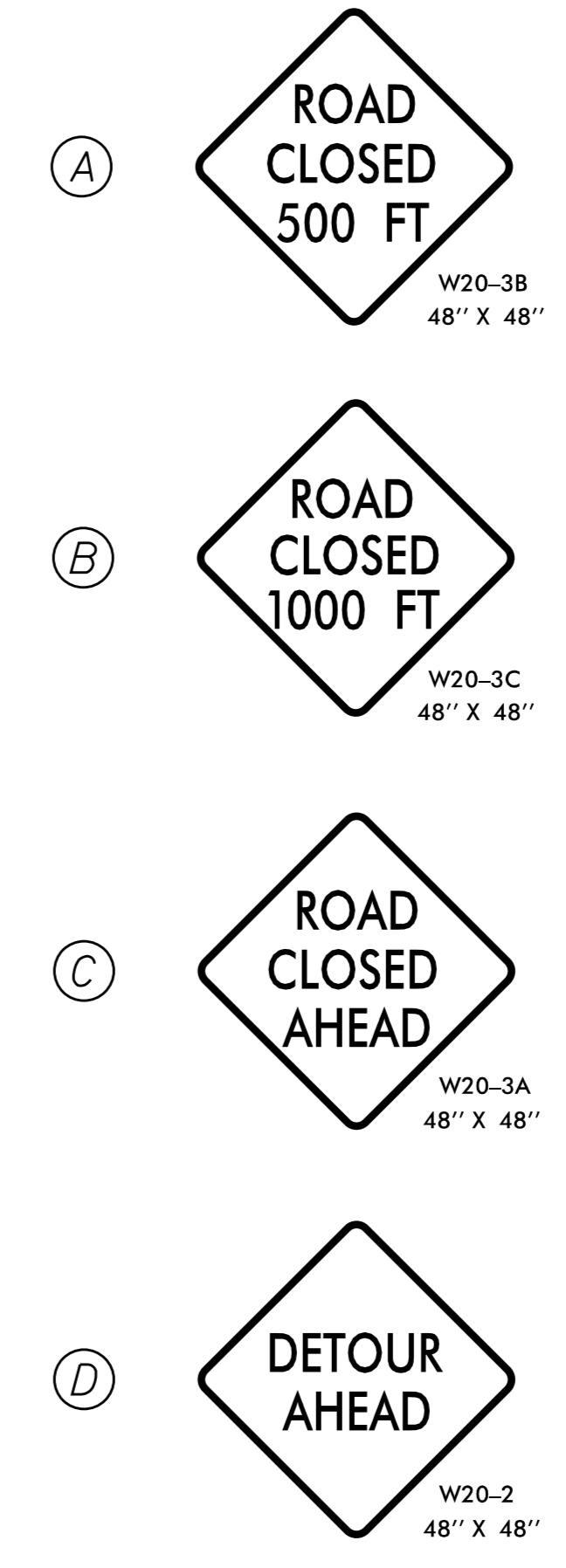
# Kimley»Horn

## TRAFFIC CONTROL DETOUR SHEET

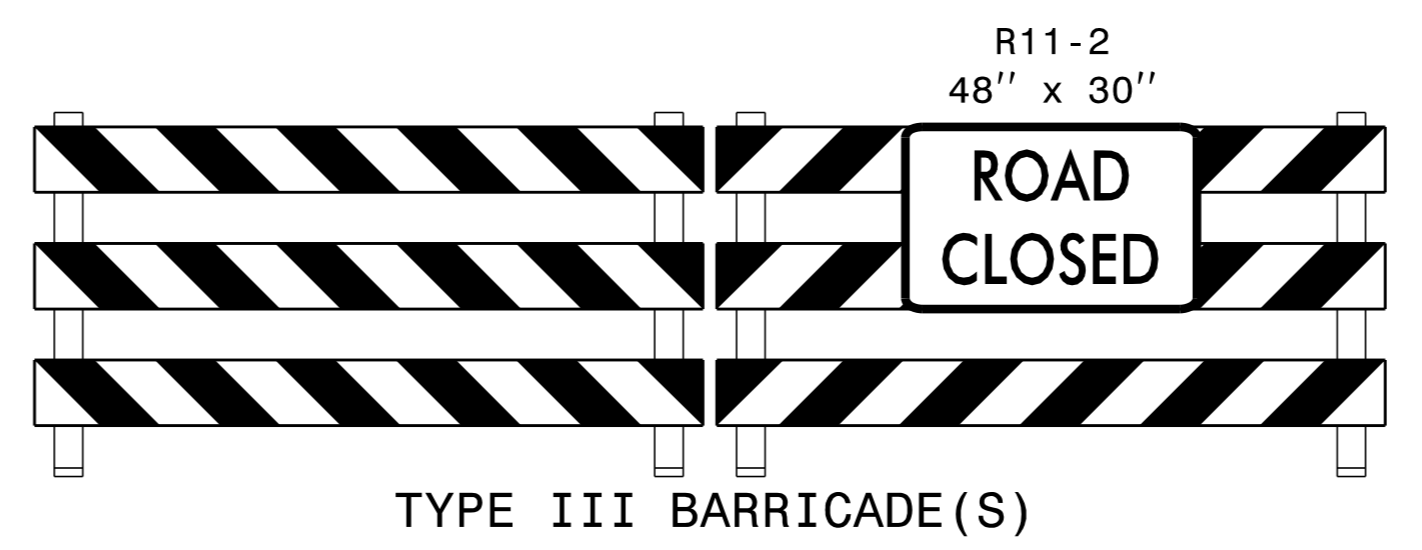
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**DETOUR ROUTE FOR DICKINSON AVENUE AND GRANDE AVENUE CLOSURE**



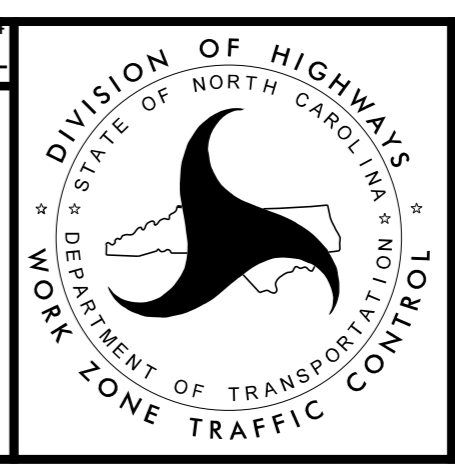
NOTE: SEE SHEET TMP-30 FOR ASSOCIATED 10TH STREET DETOUR



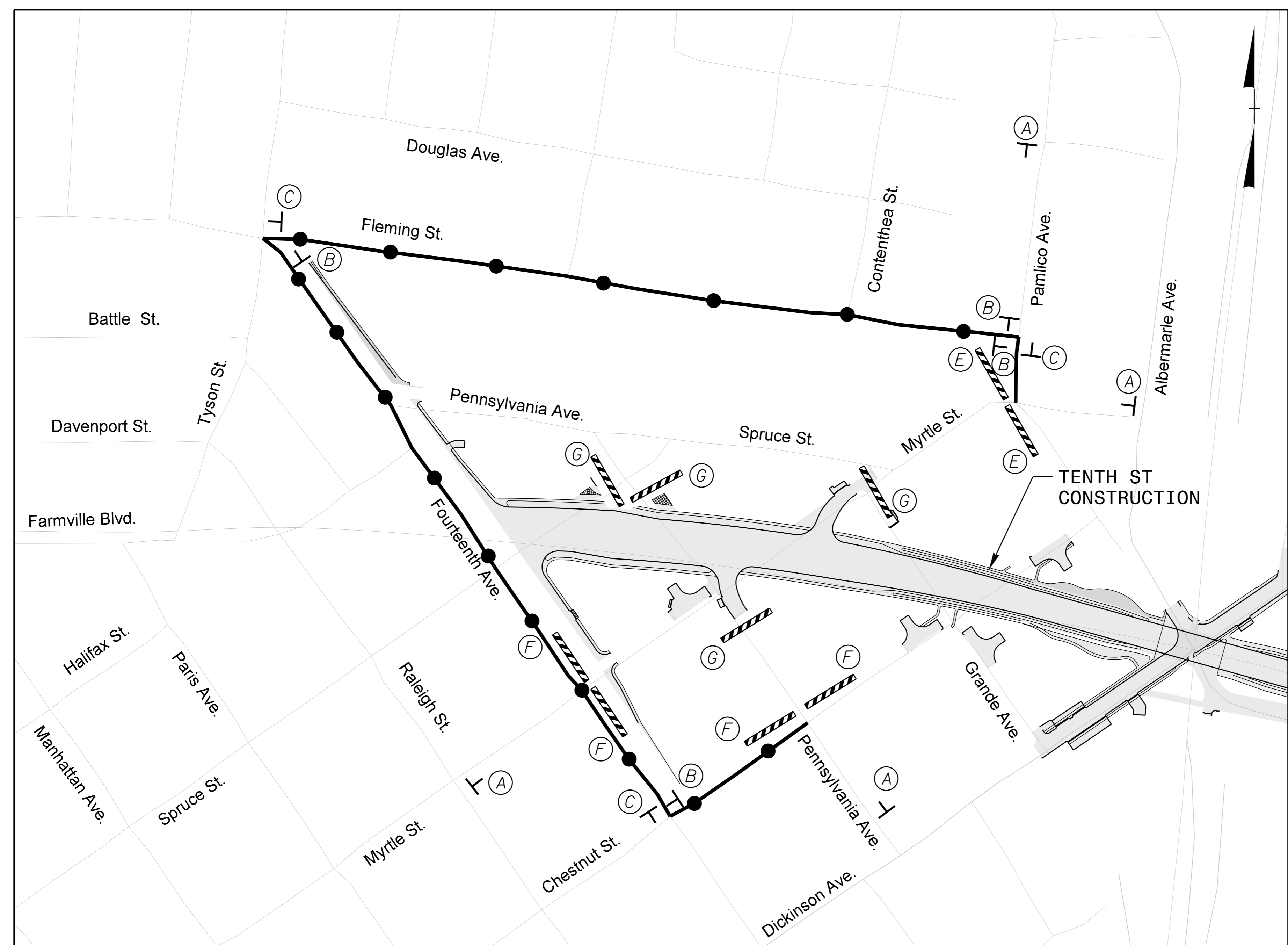
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**Kimley»Horn**

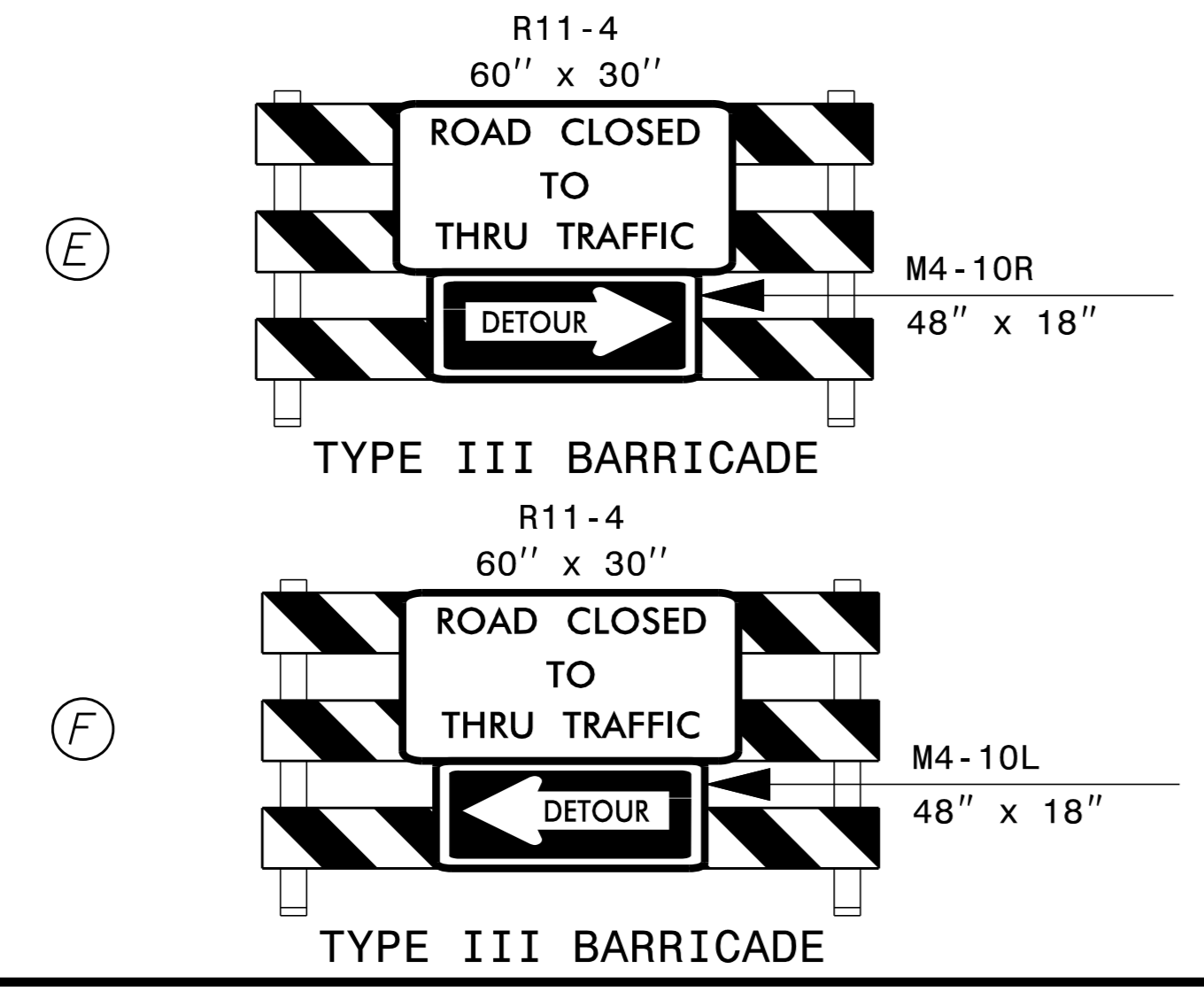
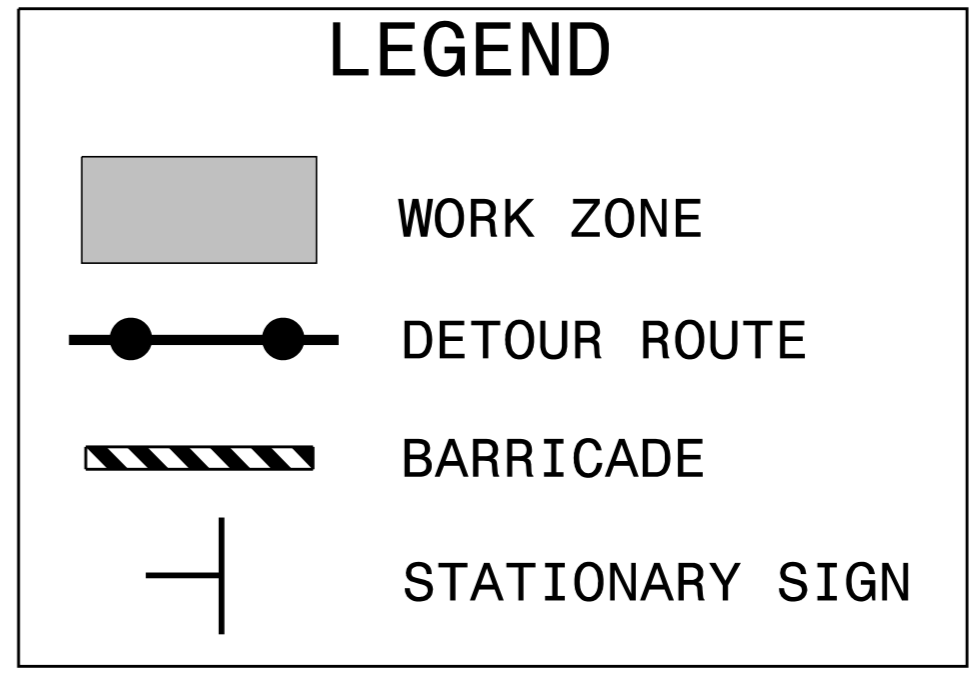
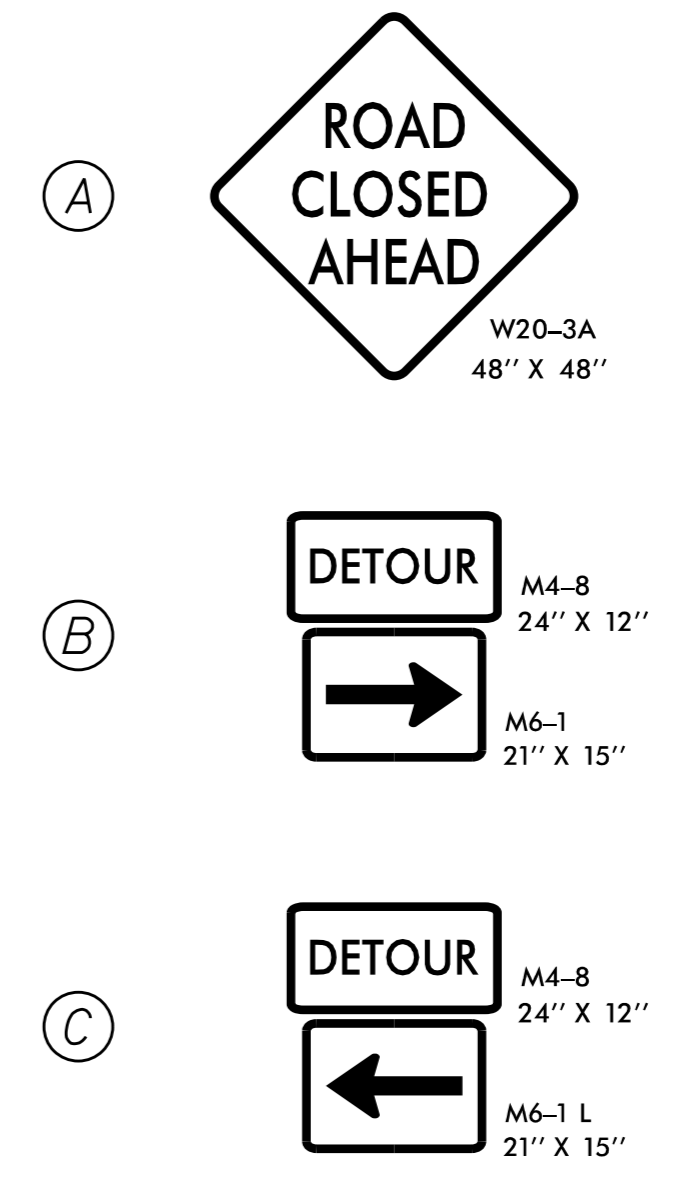
APPROVED: Jason Pace DATE: 11/3/2014  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 033167  
 JAMES J. PACE



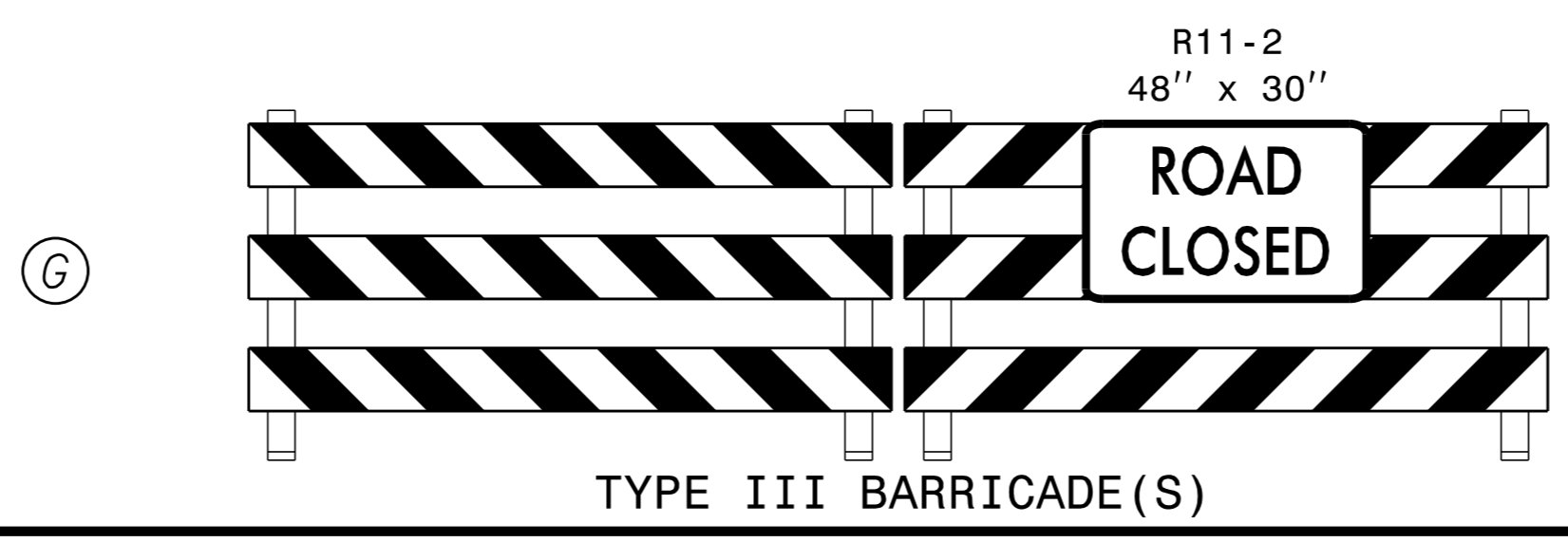
**TRAFFIC CONTROL  
DETOUR SHEET**



### DETOUR ROUTES FOR MYRTLE ST AND PENNSYLVANIA AVE CLOSURES



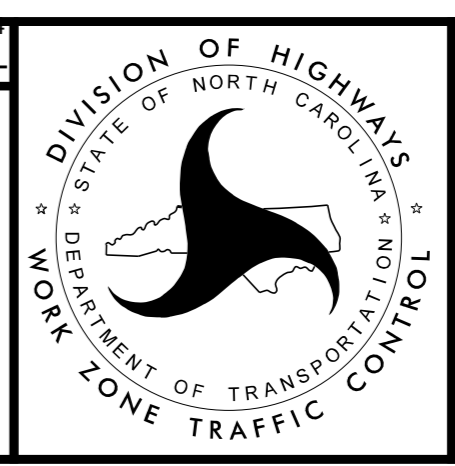
NOTE: SEE SHEET TMP-30 FOR ASSOCIATED 10TH STREET DETOUR



# Kimley»Horn

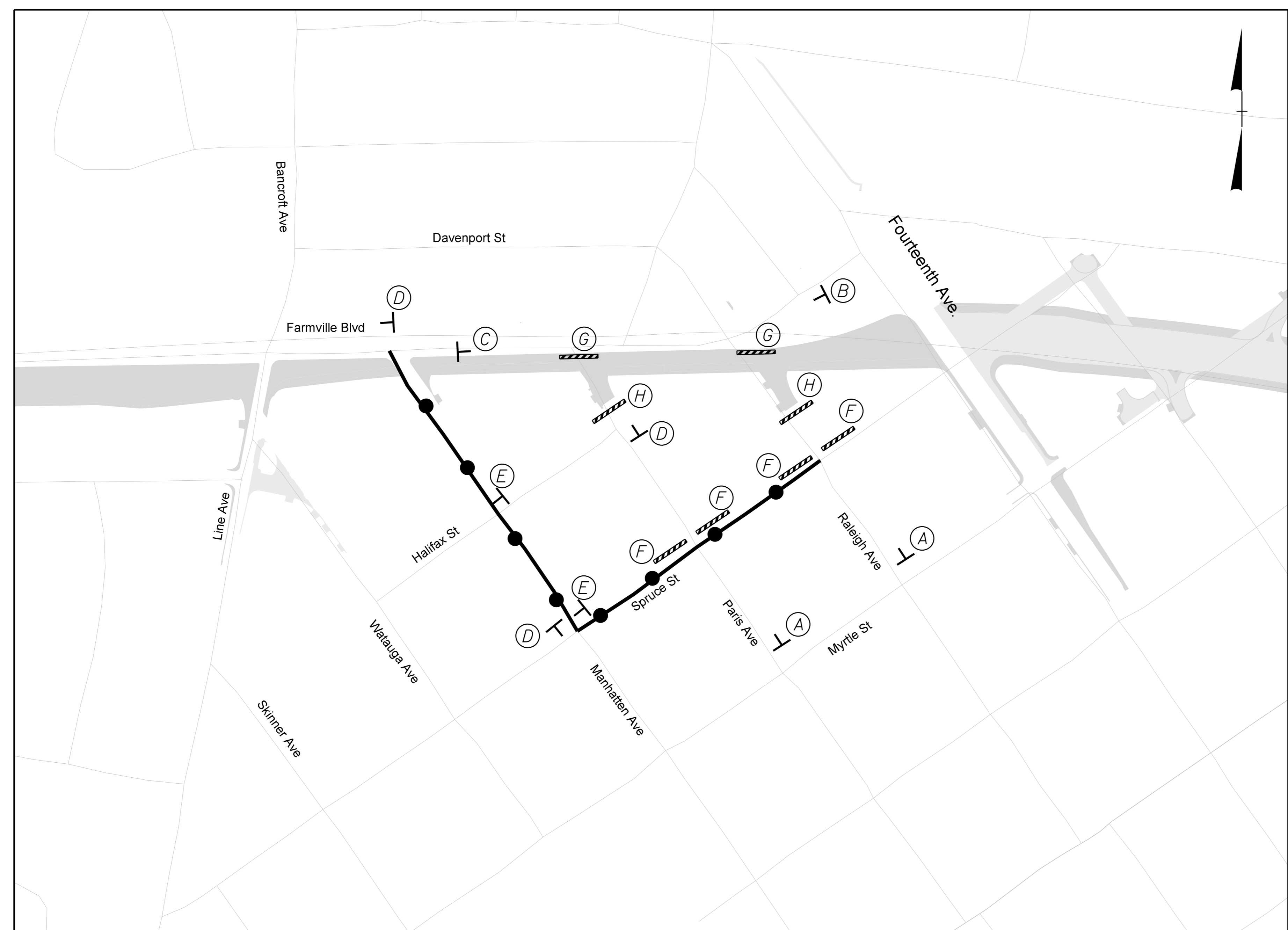
APPROVED: Jason Pace DATE: 11/17/2014

DocuSigned by:

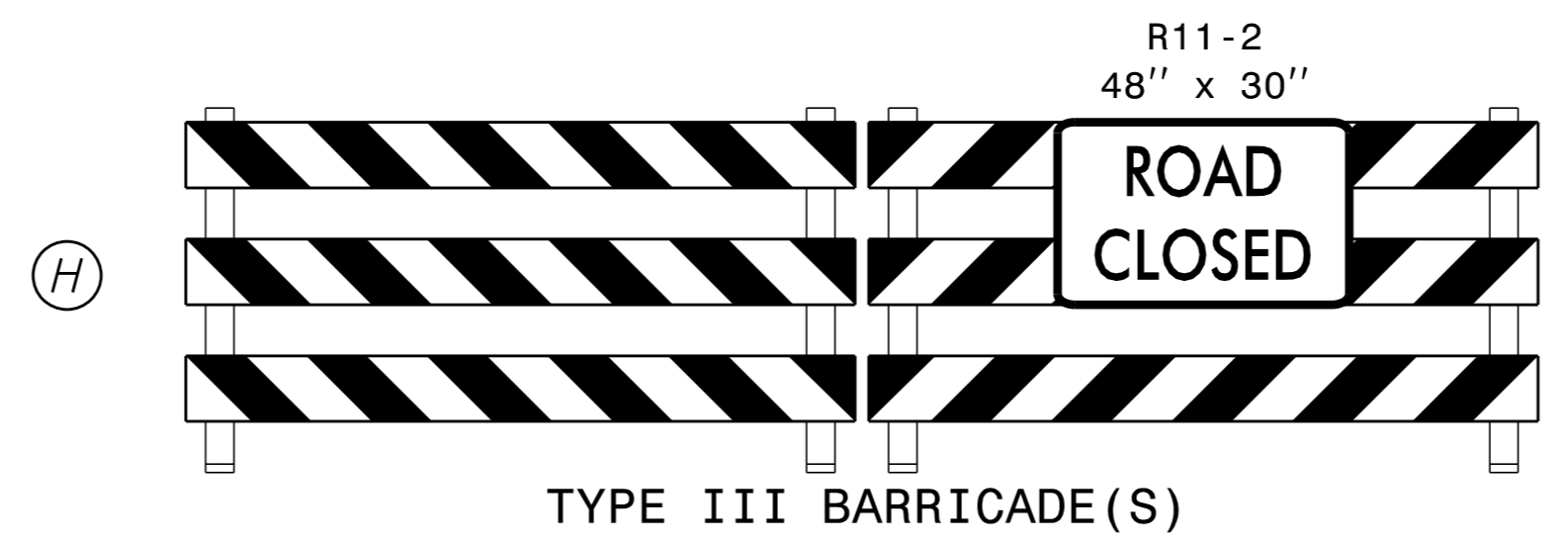
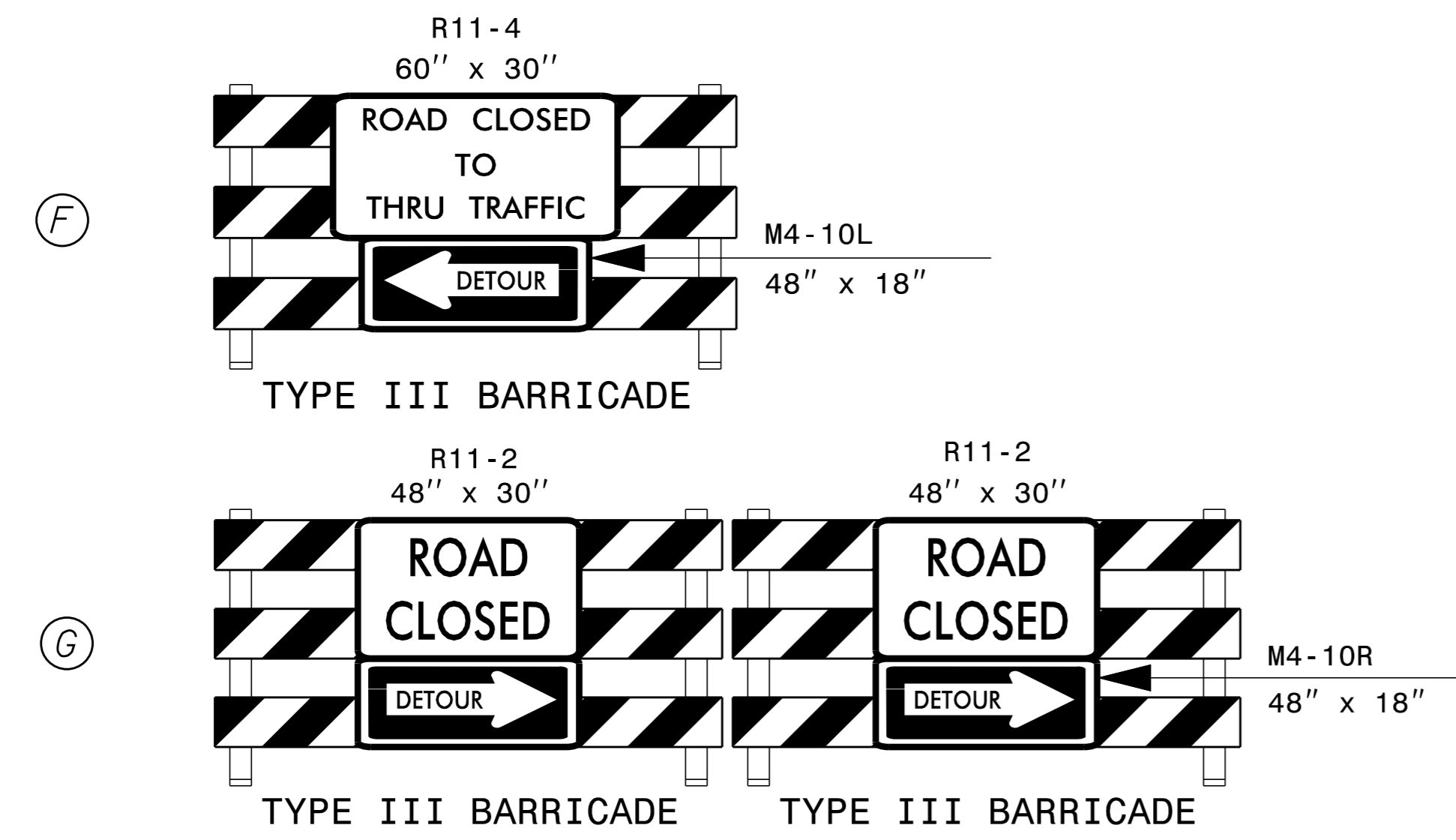
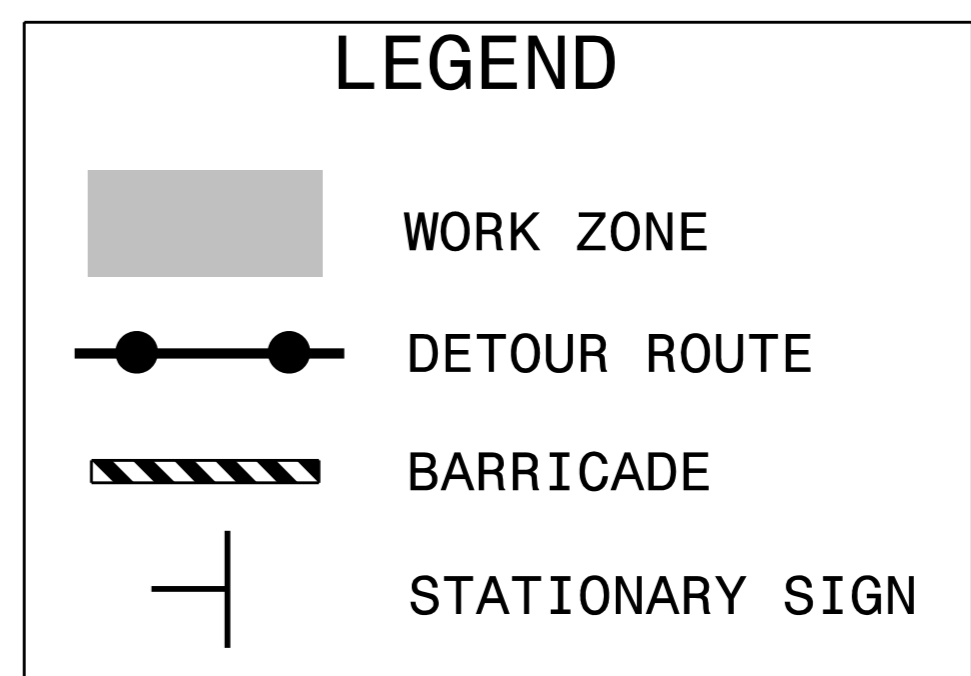
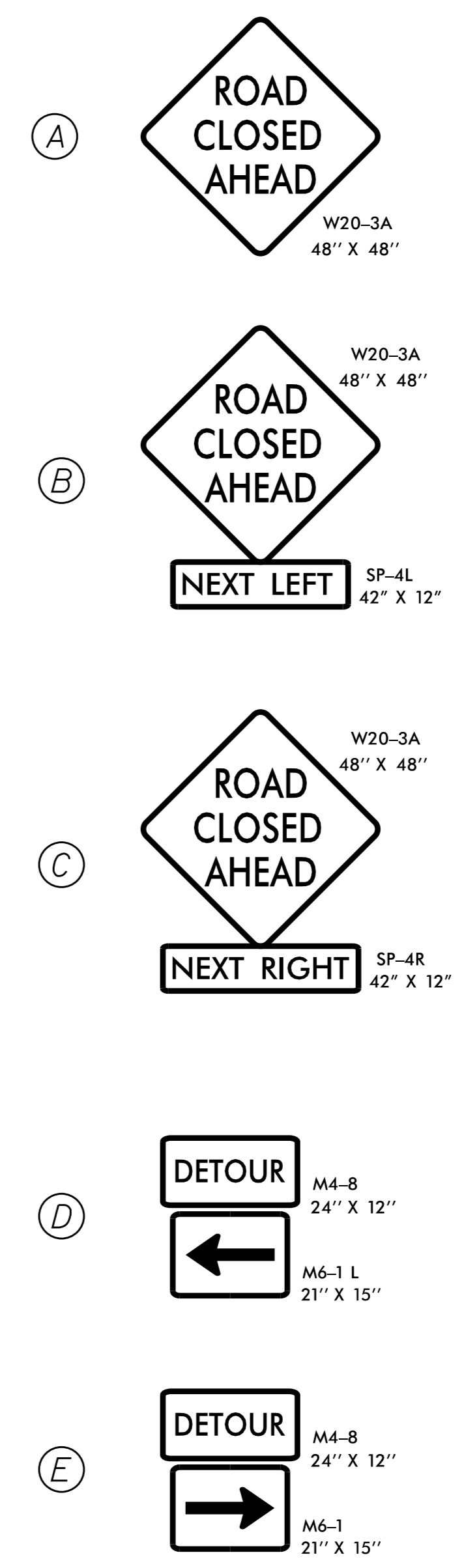


## TRAFFIC CONTROL DETOUR SHEET

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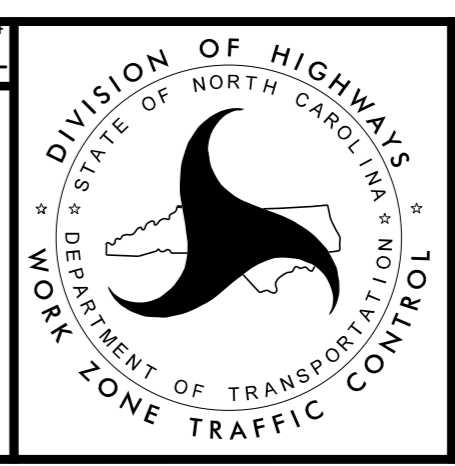
### DETOUR ROUTES FOR PARIS STREET AND RALEIGH AVENUE CLOSURES



# Kimley»Horn

APPROVED: *Jason Pace* DATE: 11/17/2014

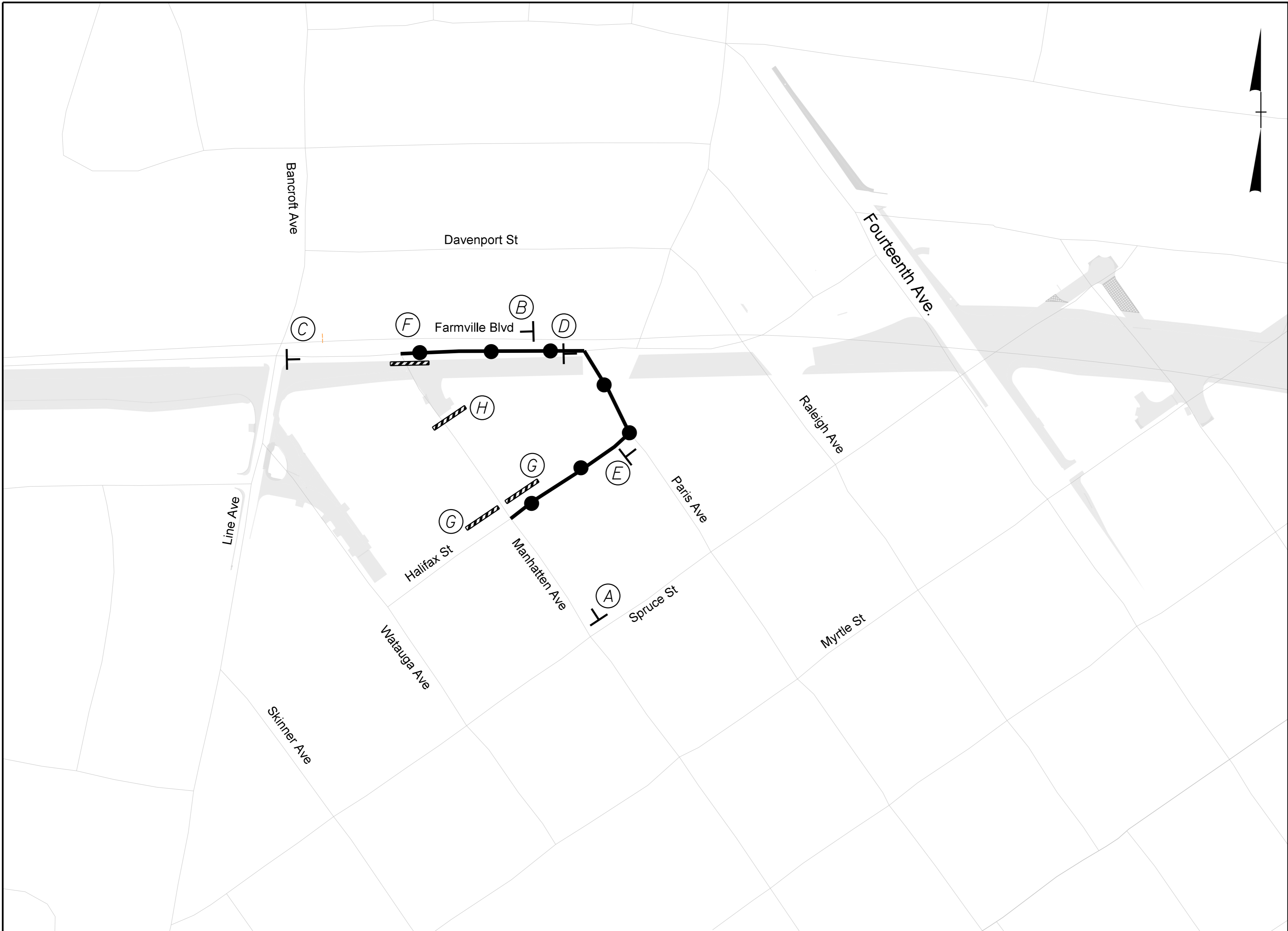
DocuSigned by:



## TRAFFIC CONTROL DETOUR SHEET

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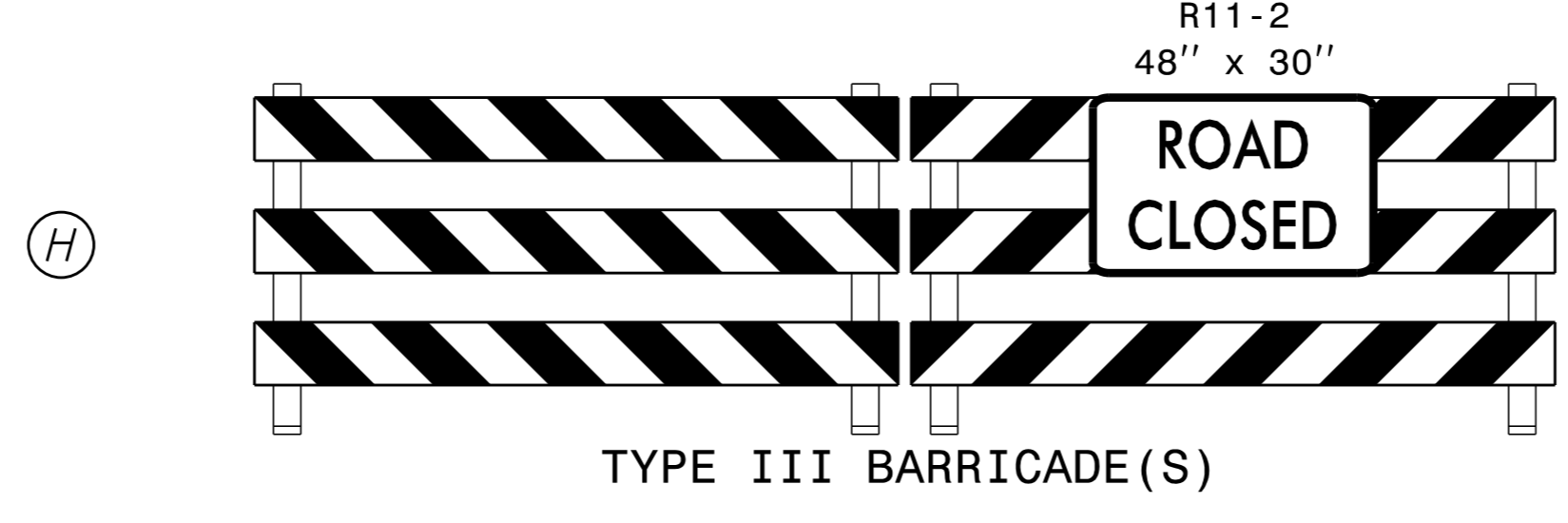
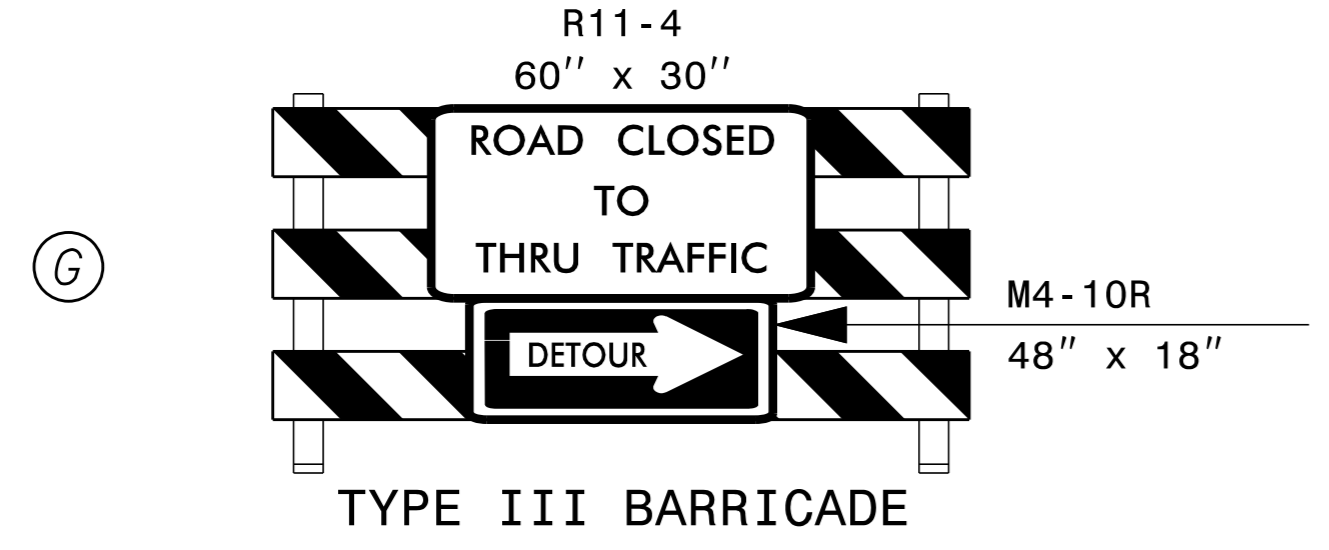
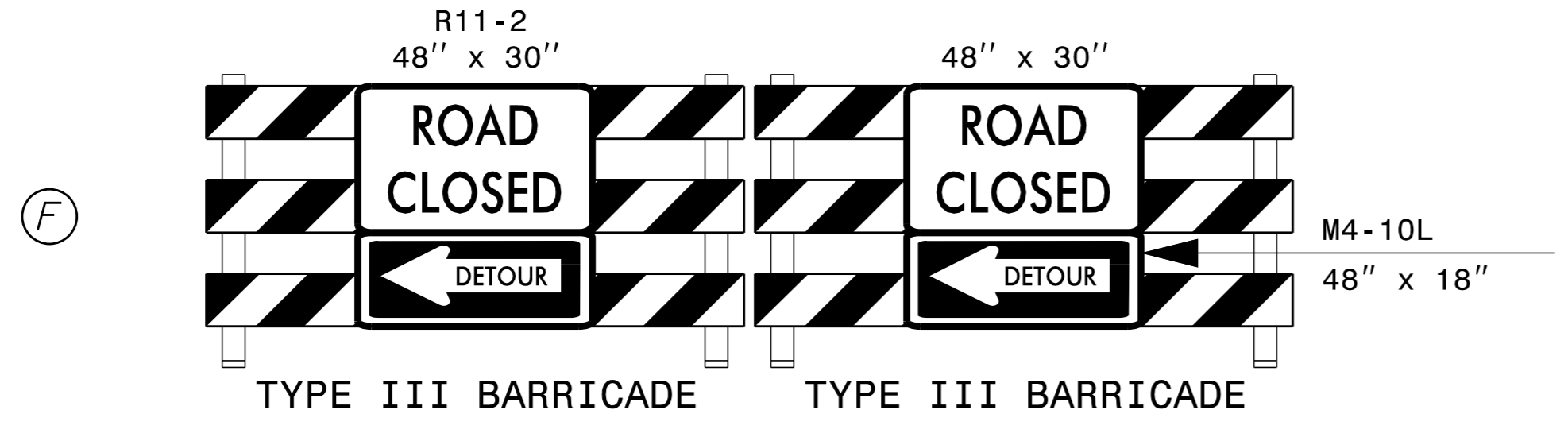


**DETOUR ROUTE FOR MANHATTEN AVENUE CLOSURE**

- (A) W20-3A 48" X 48"
- (B) W20-3A 48" X 48"  
 SP-4L 42" X 12"
- (C) W20-3A 48" X 48"  
 SP-4R 42" X 12"
- (D) M4-8 24" X 12"  
 M6-1 21" X 15"
- (E) M4-8 24" X 12"  
 M6-1 L 21" X 15"

**LEGEND**

- WORK ZONE
- DETOUR ROUTE
- BARRICADE
- STATIONARY SIGN



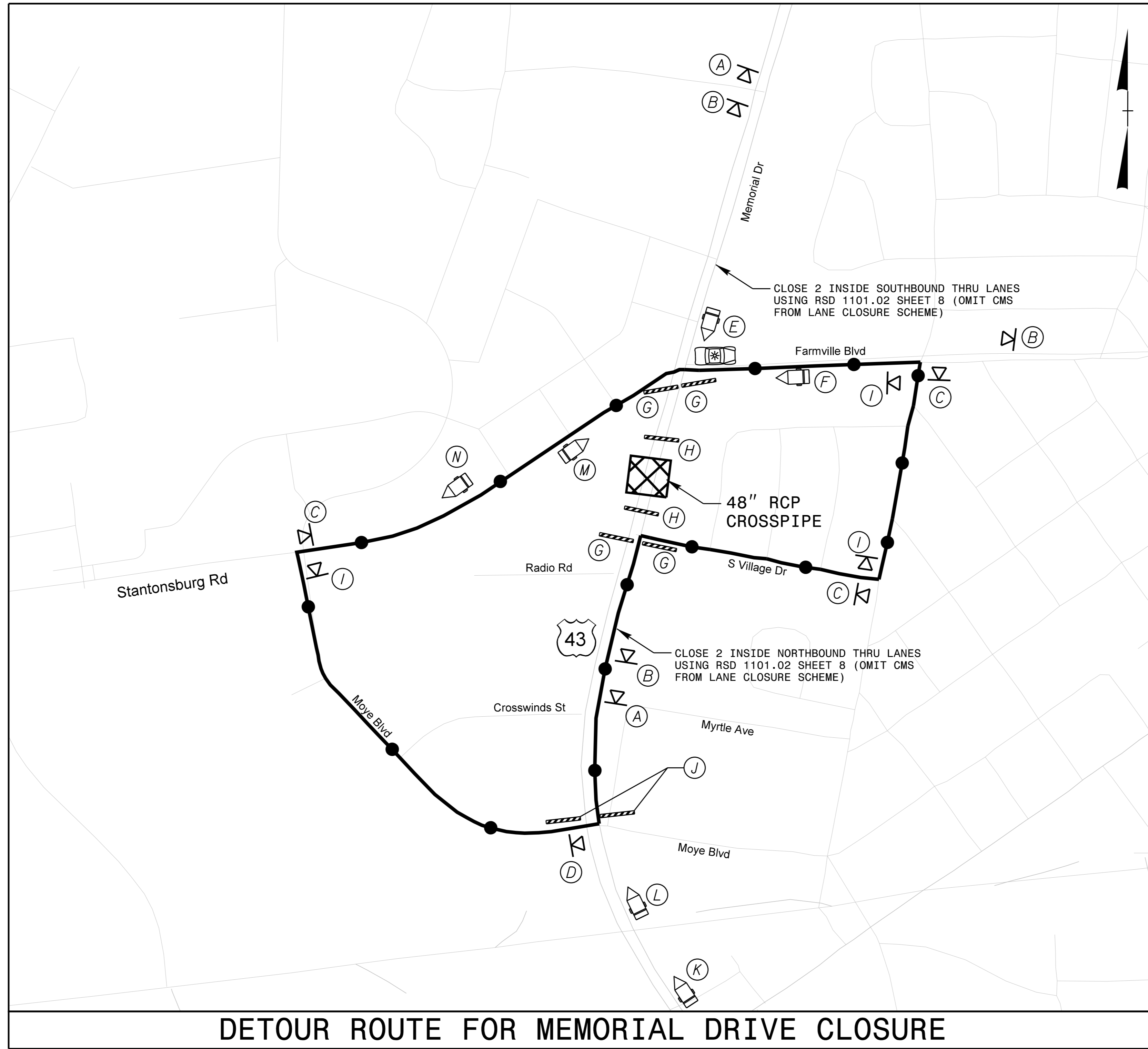
**Kimley»Horn**

APPROVED: DATE: 11/17/2014

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

**TRAFFIC CONTROL  
DETOUR SHEET**

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### DETOUR ROUTE FOR MEMORIAL DRIVE CLOSURE

- NOTES:**
- LAW ENFORCEMENT MAY BE USED TO SLOW TRAFFIC APPROACHING INTERSECTION.
  - DRUM OFF LEFT TURN LANE ON FARMVILLE BLVD. POSITION CMS "F" IN CLOSED LANE

**LEGEND**

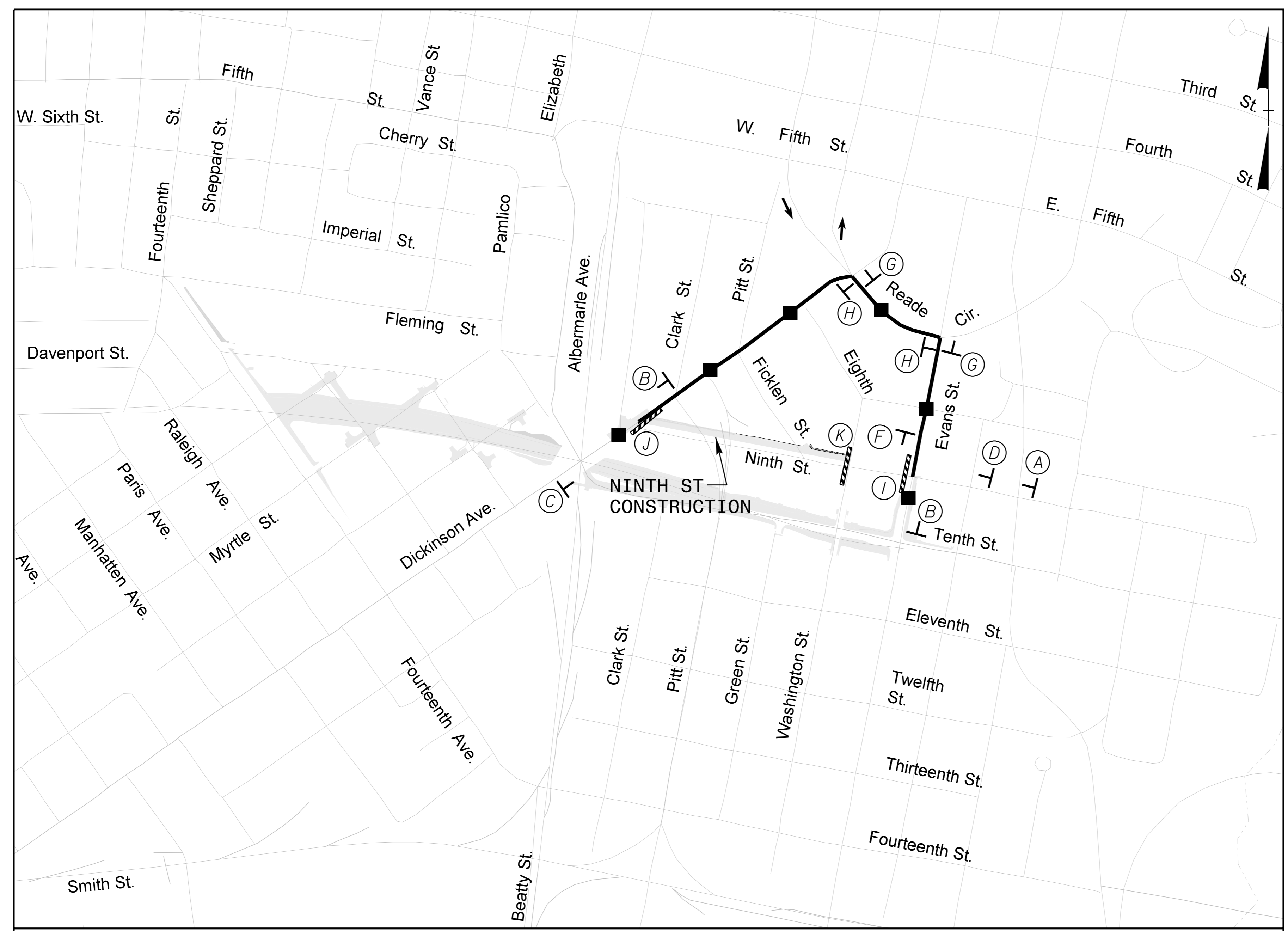
	WORK ZONE		PORTABLE SIGN
	DETOUR ROUTE		CMS
	BARRICADE		LAW ENFORCEMENT

(A)	(C)	(I)																		
(B)	(D)																			
(E) <table border="1"> <tr><th colspan="2">DISPLAY MESSAGE DAY OF CLOSURE</th></tr> <tr><td>MESSAGE NO. 1</td><td>MESSAGE NO. 2</td></tr> <tr><td>ROAD WILL BE CLOSED</td><td>TONIGHT STARTING 9PM</td></tr> </table>	DISPLAY MESSAGE DAY OF CLOSURE		MESSAGE NO. 1	MESSAGE NO. 2	ROAD WILL BE CLOSED	TONIGHT STARTING 9PM	(K) <table border="1"> <tr><th colspan="2">DISPLAY MESSAGE DURING CLOSURE</th></tr> <tr><td>MESSAGE NO. 1</td><td>MESSAGE NO. 2</td></tr> <tr><td>ROAD CLOSED AHEAD</td><td>FOLLOW DETOUR</td></tr> </table>	DISPLAY MESSAGE DURING CLOSURE		MESSAGE NO. 1	MESSAGE NO. 2	ROAD CLOSED AHEAD	FOLLOW DETOUR							
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MESSAGE NO. 1	MESSAGE NO. 2																			
ROAD WILL BE CLOSED	TONIGHT STARTING 9PM																			
DISPLAY MESSAGE DURING CLOSURE																				
MESSAGE NO. 1	MESSAGE NO. 2																			
ROAD CLOSED AHEAD	FOLLOW DETOUR																			
(F) <table border="1"> <tr><th colspan="2">DISPLAY MESSAGE DAY OF CLOSURE</th></tr> <tr><td>MESSAGE NO. 1</td><td>MESSAGE NO. 2</td></tr> <tr><td>ROAD CLOSED NEXT LT</td><td>DETOUR STRAIGHT AHEAD</td></tr> </table>	DISPLAY MESSAGE DAY OF CLOSURE		MESSAGE NO. 1	MESSAGE NO. 2	ROAD CLOSED NEXT LT	DETOUR STRAIGHT AHEAD	(L) <table border="1"> <tr><th colspan="2">DISPLAY MESSAGE DURING CLOSURE</th></tr> <tr><td>MESSAGE NO. 1</td><td>MESSAGE NO. 2</td></tr> <tr><td>ROAD CLOSED AHEAD</td><td>FOLLOW DETOUR</td></tr> </table>	DISPLAY MESSAGE DURING CLOSURE		MESSAGE NO. 1	MESSAGE NO. 2	ROAD CLOSED AHEAD	FOLLOW DETOUR	(M) <table border="1"> <tr><th colspan="2">DISPLAY MESSAGE DAY OF CLOSURE</th></tr> <tr><td>MESSAGE NO. 1</td><td>MESSAGE NO. 2</td></tr> <tr><td>ROAD CLOSED NEXT RT</td><td>DETOUR STRAIGHT AHEAD</td></tr> </table>	DISPLAY MESSAGE DAY OF CLOSURE		MESSAGE NO. 1	MESSAGE NO. 2	ROAD CLOSED NEXT RT	DETOUR STRAIGHT AHEAD
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DISPLAY MESSAGE DAY OF CLOSURE																				
MESSAGE NO. 1	MESSAGE NO. 2																			
ROAD CLOSED NEXT RT	DETOUR STRAIGHT AHEAD																			
		(N) <table border="1"> <tr><th colspan="2">DISPLAY MESSAGE DURING CLOSURE</th></tr> <tr><td>MESSAGE NO. 1</td><td>MESSAGE NO. 2</td></tr> <tr><td>MEMORIAL DRIVE DETOUR</td><td>NEXT LEFT</td></tr> </table>	DISPLAY MESSAGE DURING CLOSURE		MESSAGE NO. 1	MESSAGE NO. 2	MEMORIAL DRIVE DETOUR	NEXT LEFT												
DISPLAY MESSAGE DURING CLOSURE																				
MESSAGE NO. 1	MESSAGE NO. 2																			
MEMORIAL DRIVE DETOUR	NEXT LEFT																			

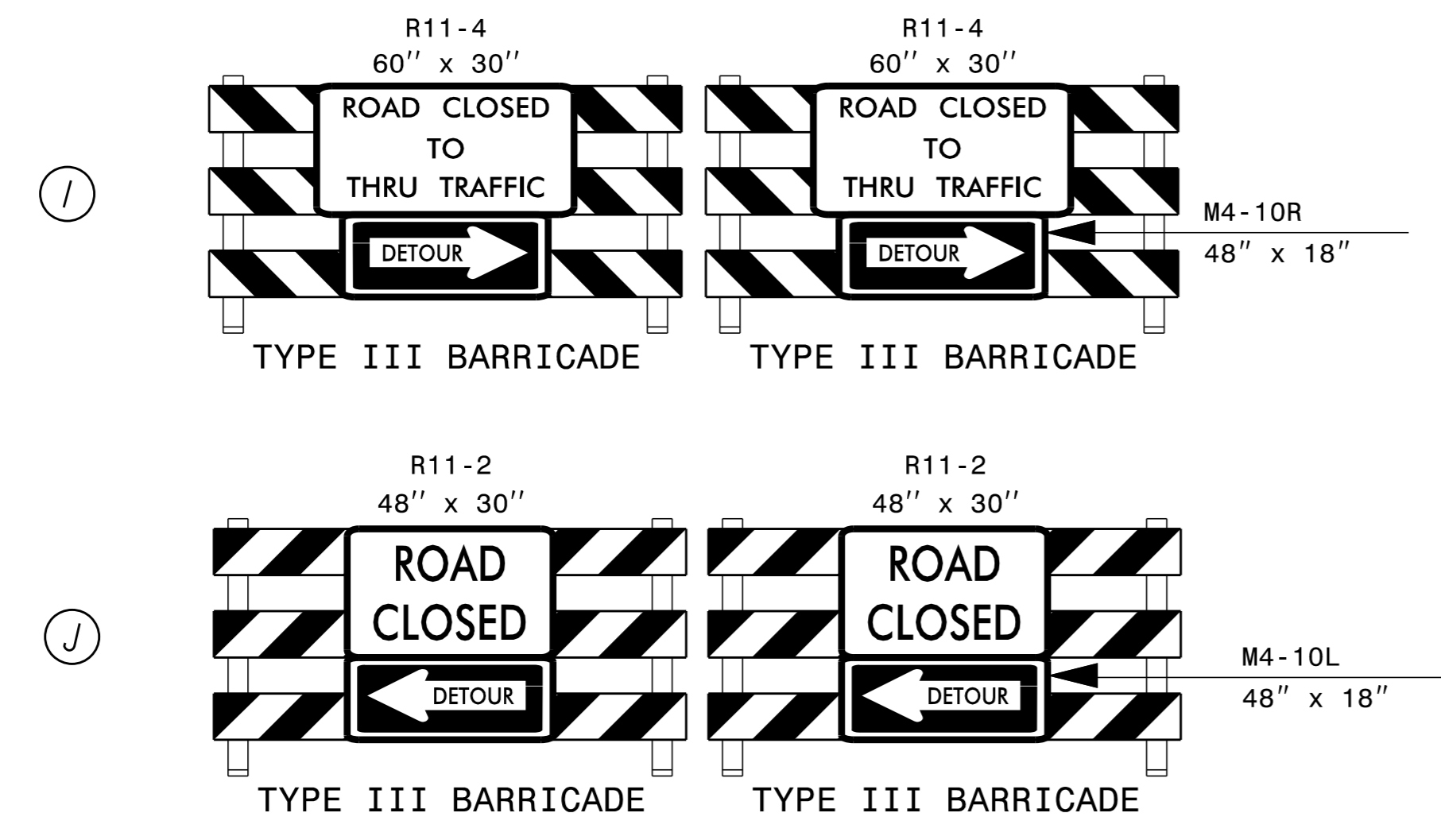
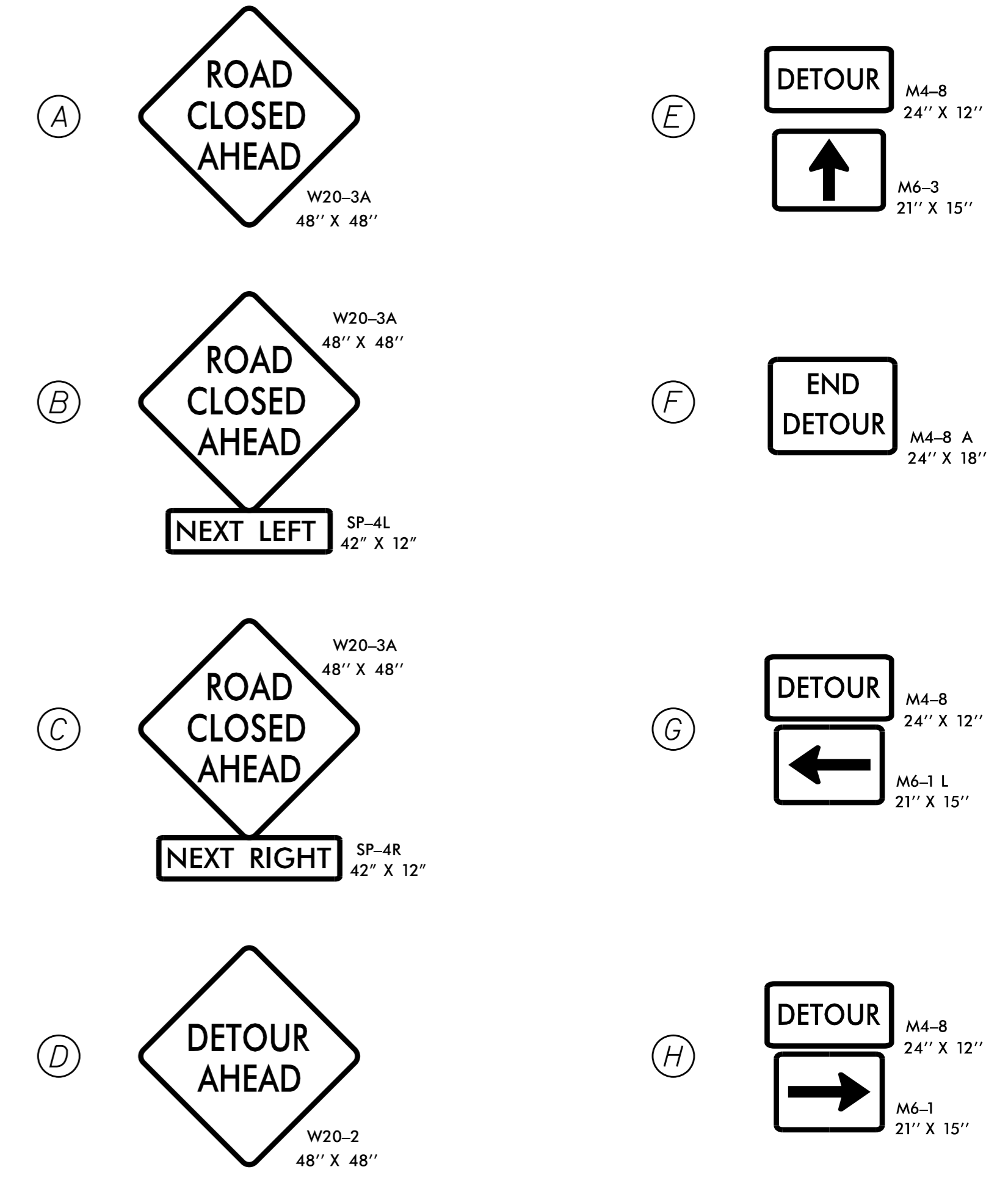
(G)	(H)	(J)
TYPE III BARRICADE	TYPE III BARRICADE(S)	TYPE III BARRICADE

APPROVED: <u>Jason Pace</u> DATE: <u>11/4/2014</u>		

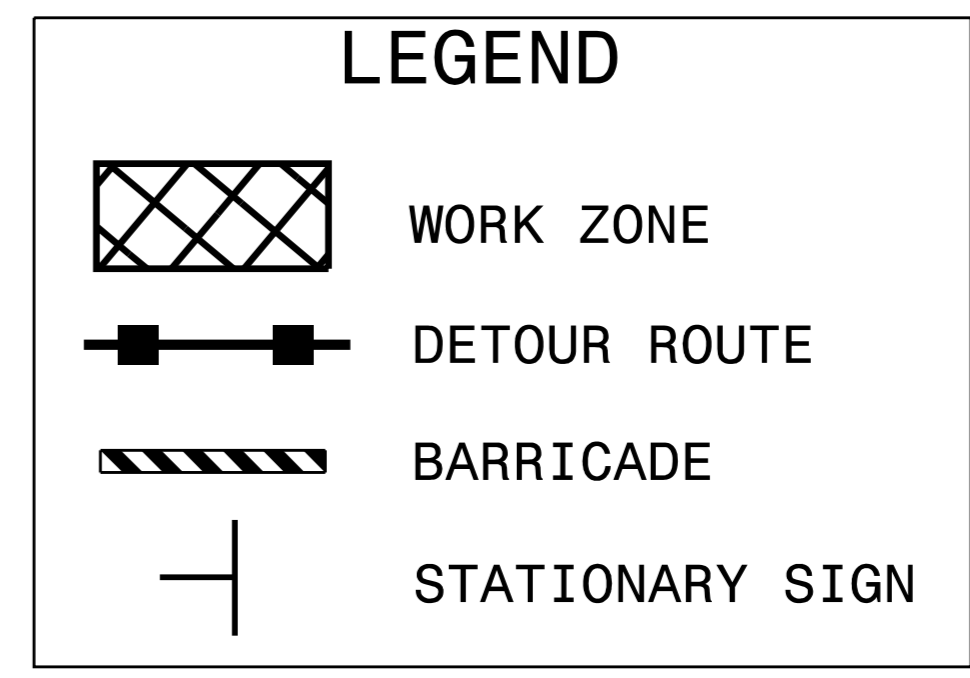
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### DETOUR ROUTE FOR NINTH STREET CLOSURE



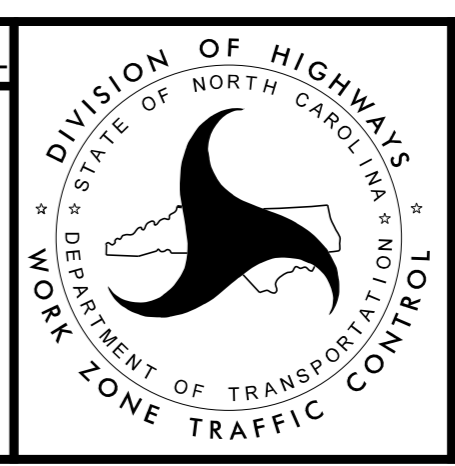
NOTE: SEE SHEET TMP-30 FOR ASSOCIATED 10TH STREET DETOUR



# Kimley»Horn

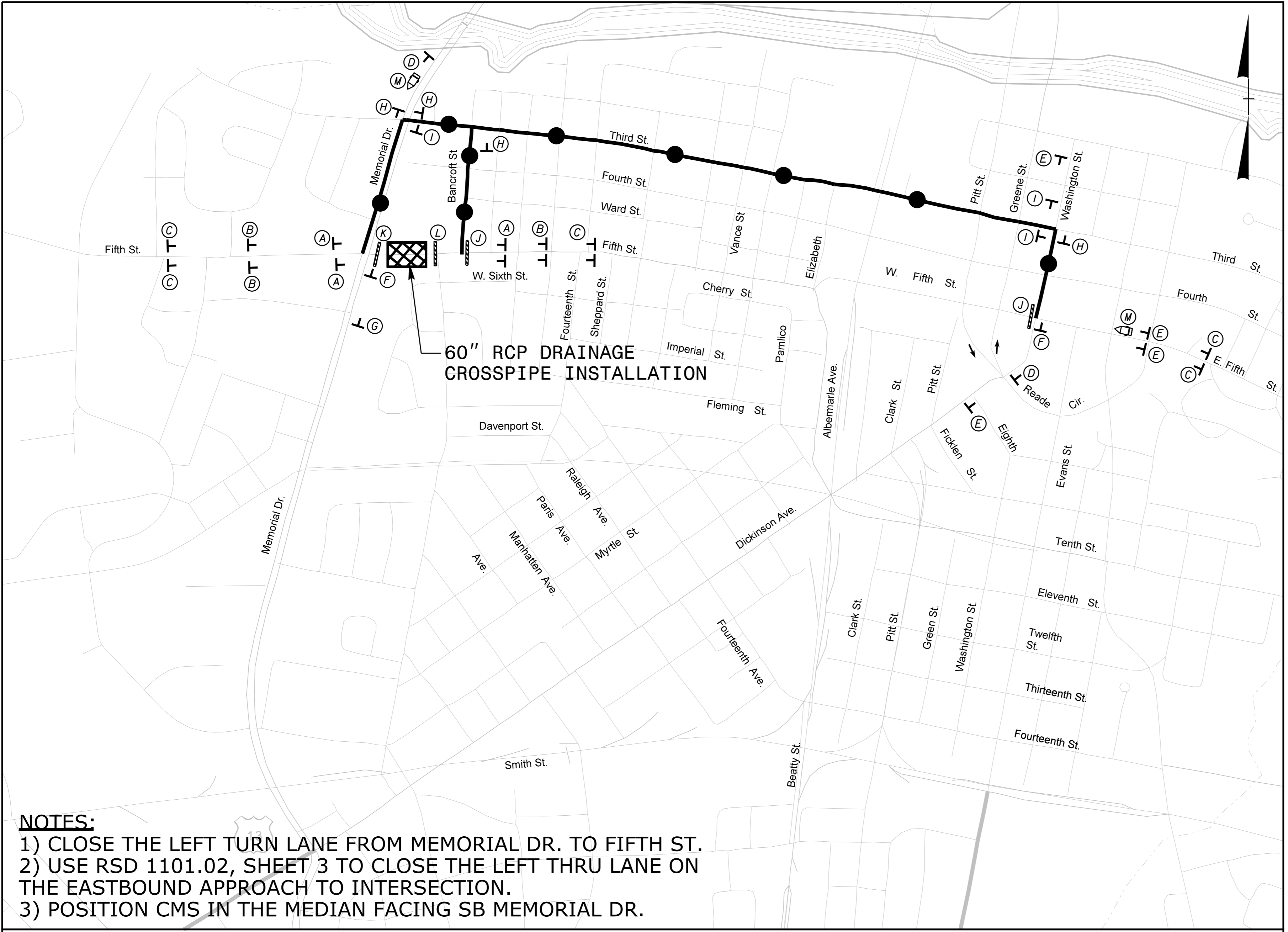
APPROVED: Jason Pace DATE: 11/19/2014

PROFESSIONAL SEAL 033167  
ENGINEER JAMES J. PACE



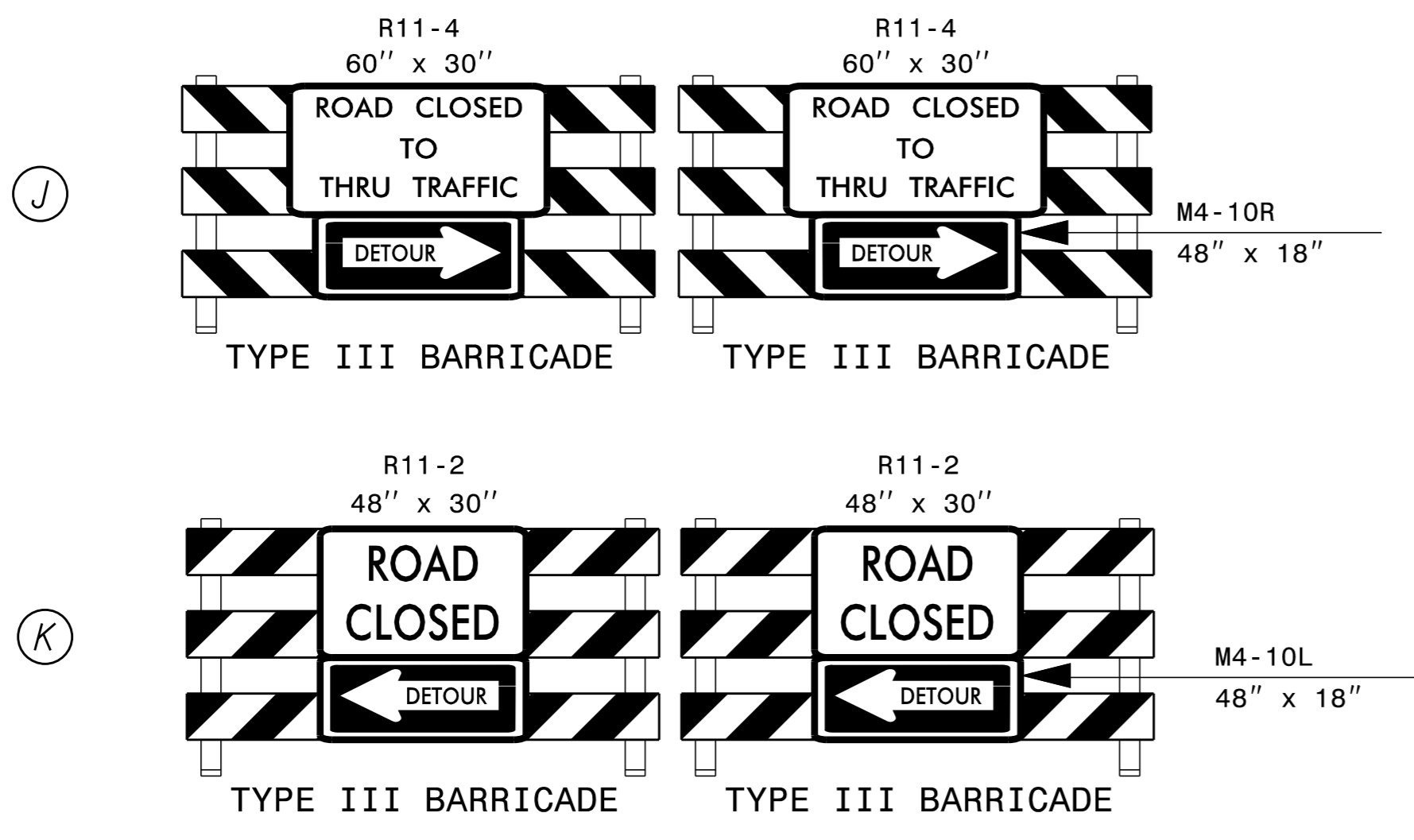
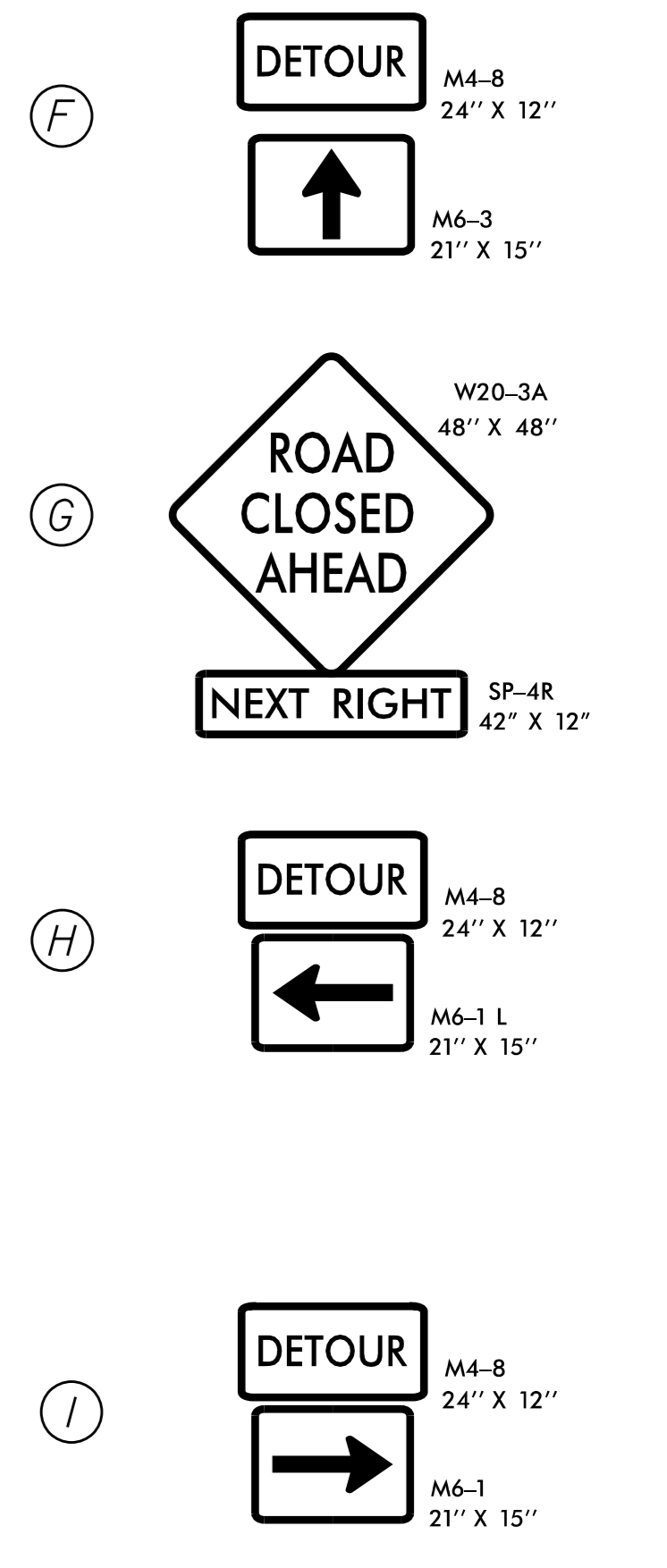
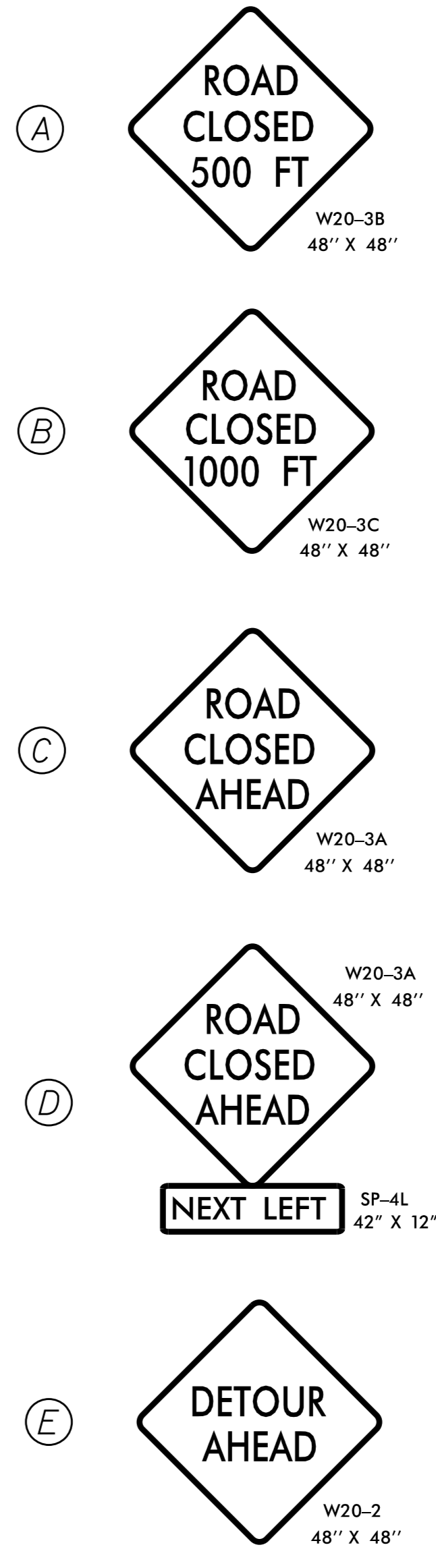
## TRAFFIC CONTROL DETOUR SHEET

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**NOTES:**  
 1) CLOSE THE LEFT TURN LANE FROM MEMORIAL DR. TO FIFTH ST.  
 2) USE RSD 1101.02, SHEET 3 TO CLOSE THE LEFT THRU LANE ON THE EASTBOUND APPROACH TO INTERSECTION.  
 3) POSITION CMS IN THE MEDIAN FACING SB MEMORIAL DR.

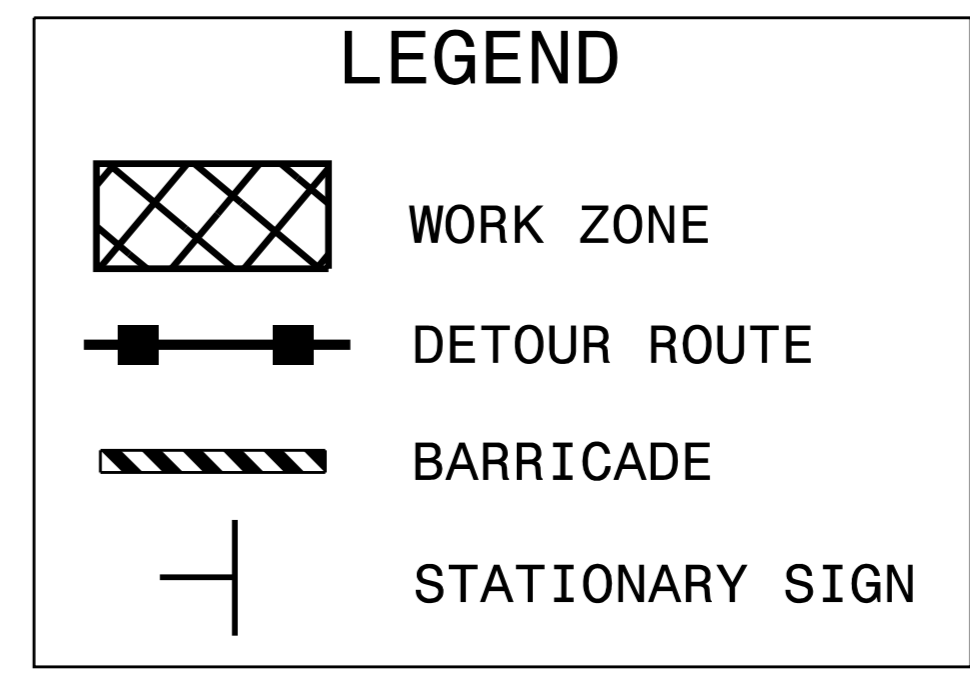
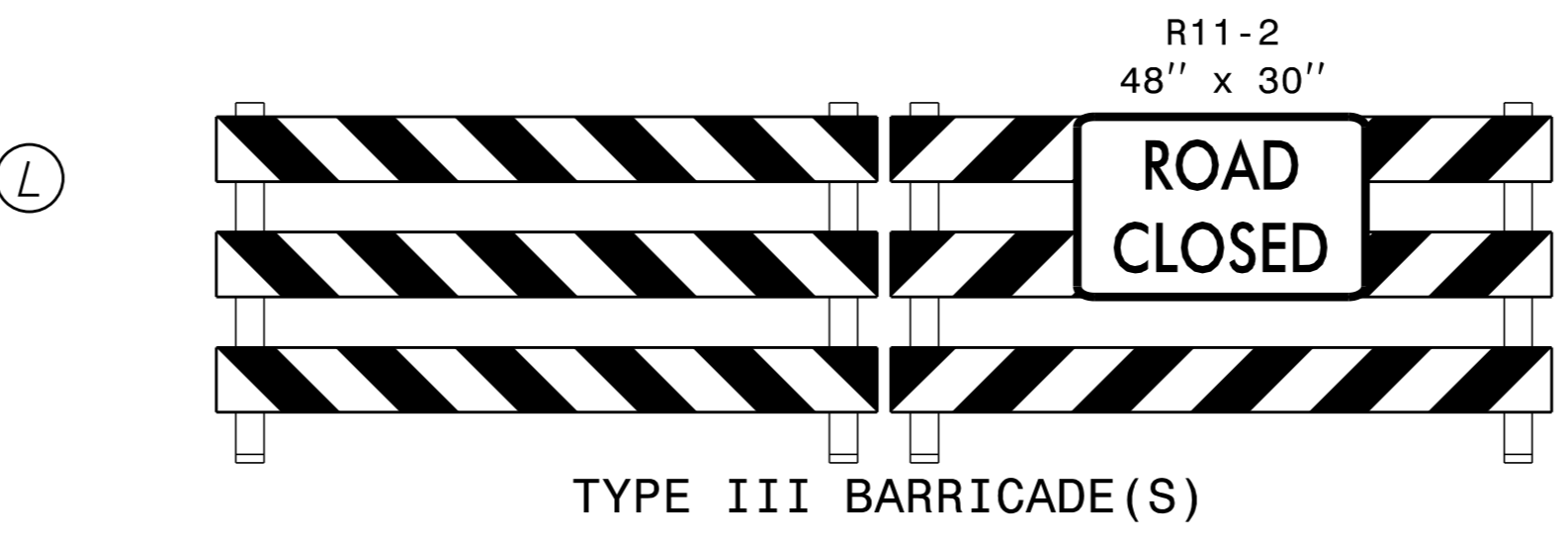
**DETOUR ROUTE FOR FIFTH STREET CLOSURE**



M) DISPLAY MESSAGE 1 WEEK PRIOR TO CLOSURE

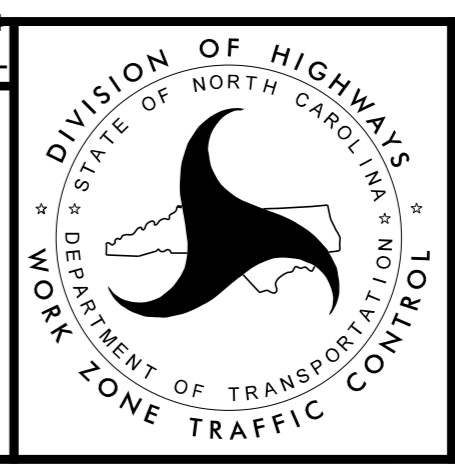
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
5TH ST WILL BE CLOSED	DATE XX-XX-XX	5TH ST CLOSED AHEAD	FOLLOW DETOUR ROUTE

CHANGEABLE MESSAGE SIGN



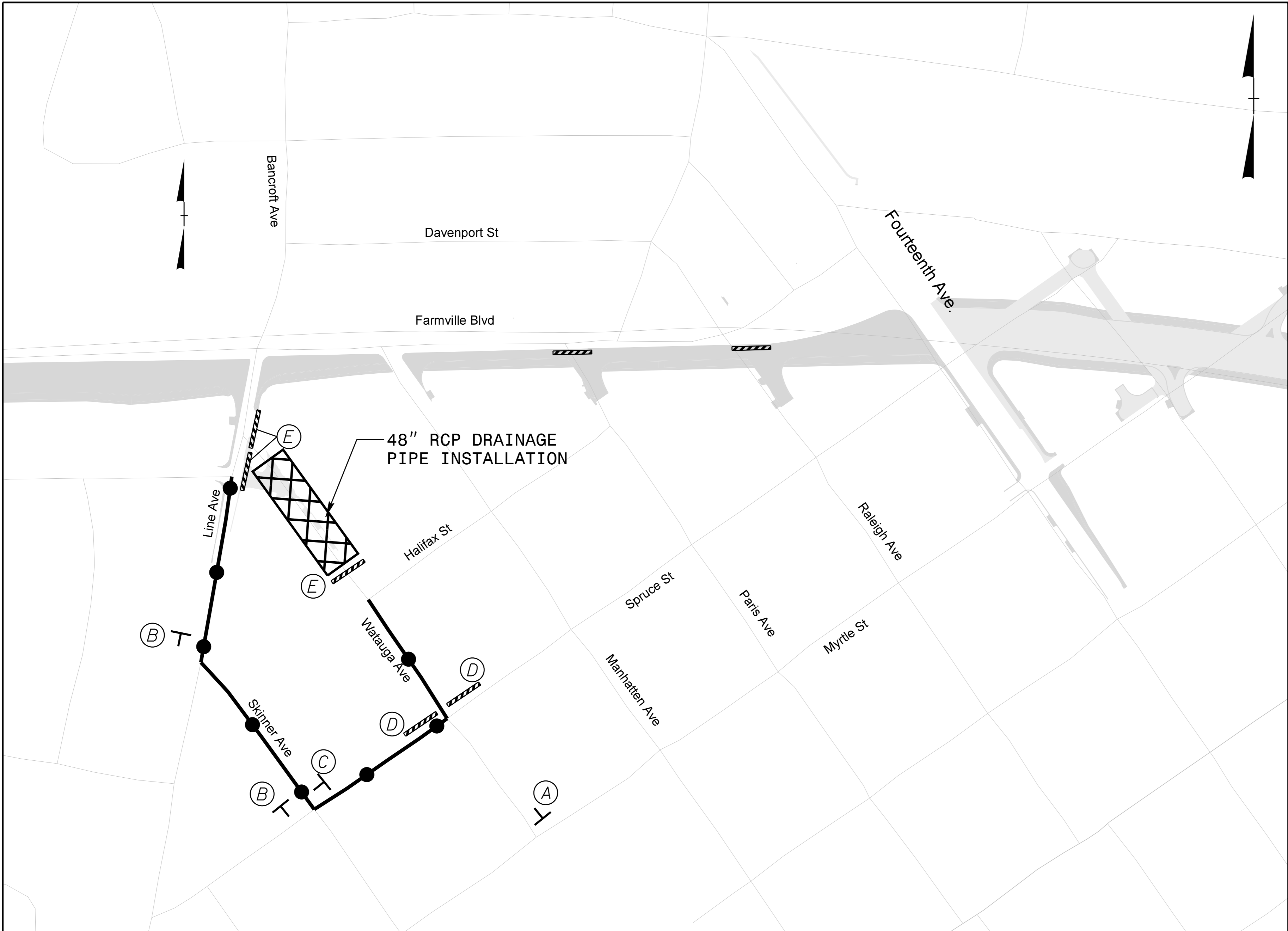
**Kimley»Horn**

APPROVED: *Jason Pace* DATE: 11/5/2014  
 NORTH CAROLINA PROFESSIONAL SEAL 033167  
 ENGINEER JAMES J. PACE

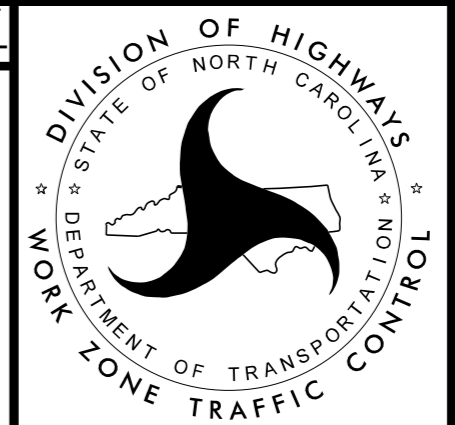
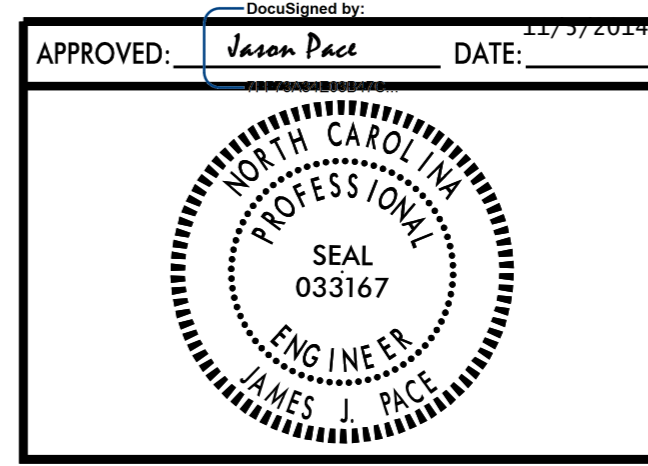
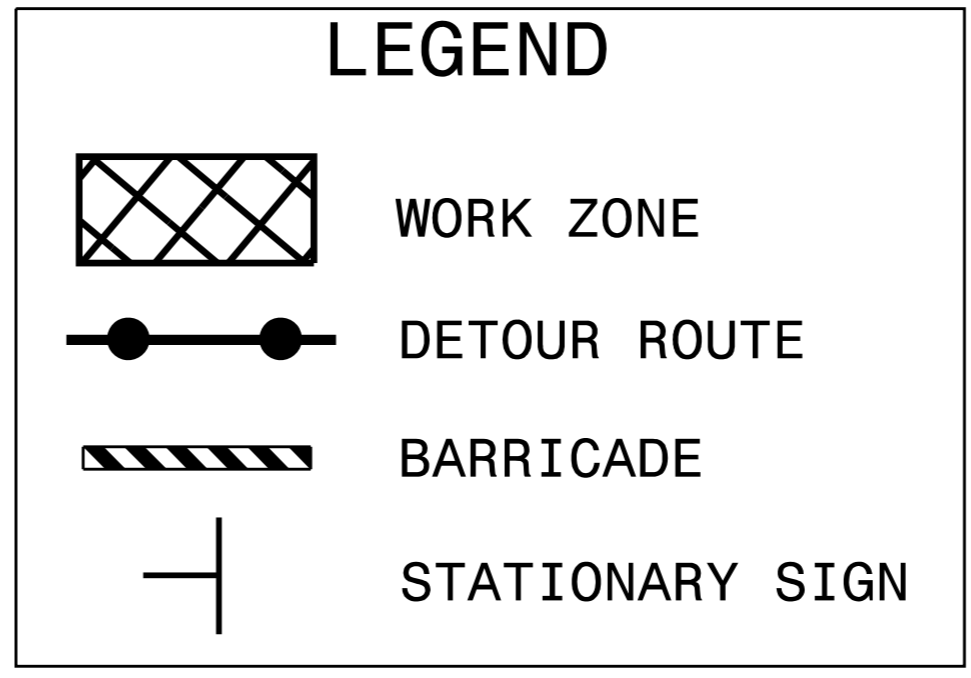
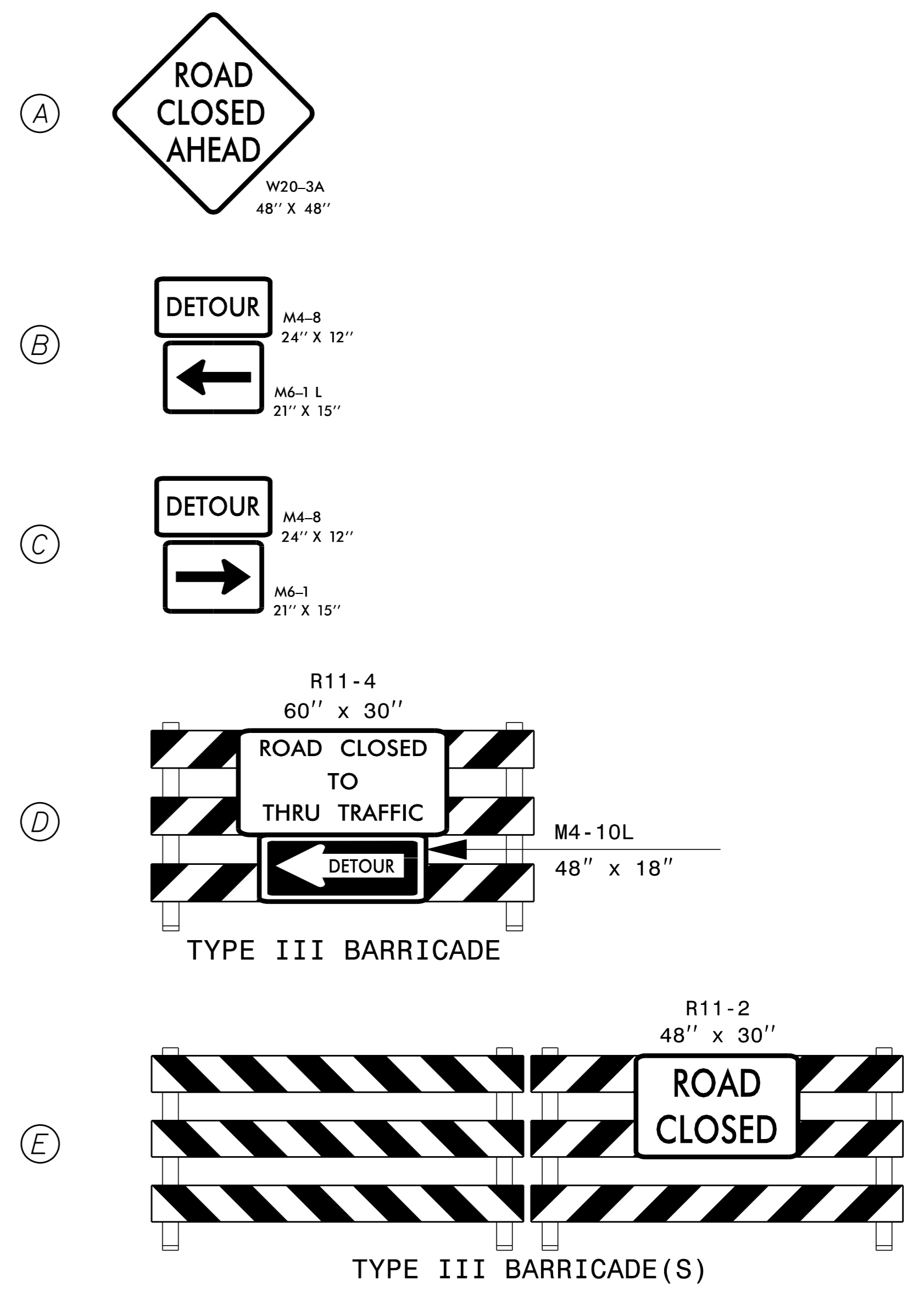


**TRAFFIC CONTROL DETOUR SHEET**

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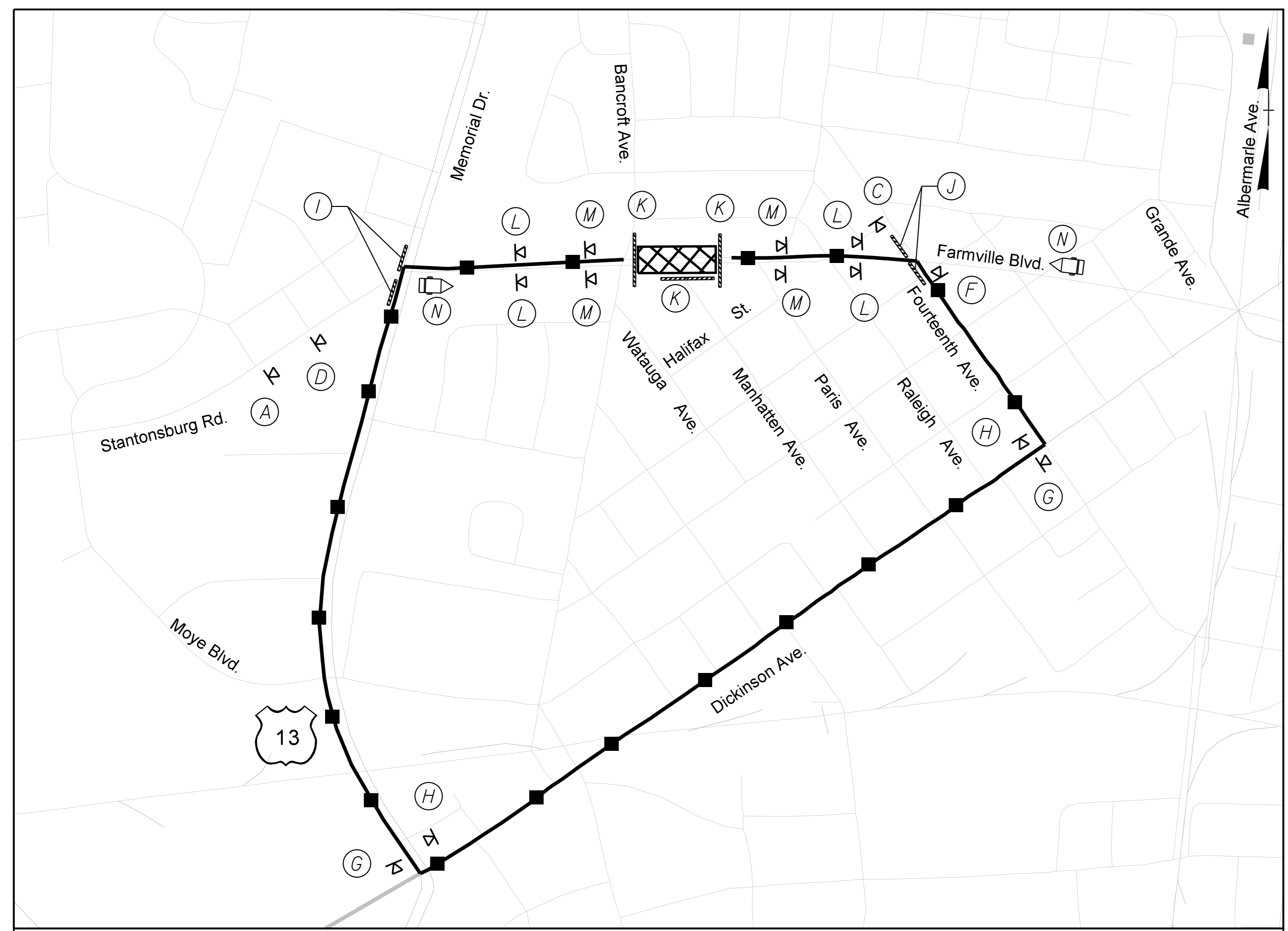
DETOUR ROUTE FOR WATAUGA AVENUE CLOSURE



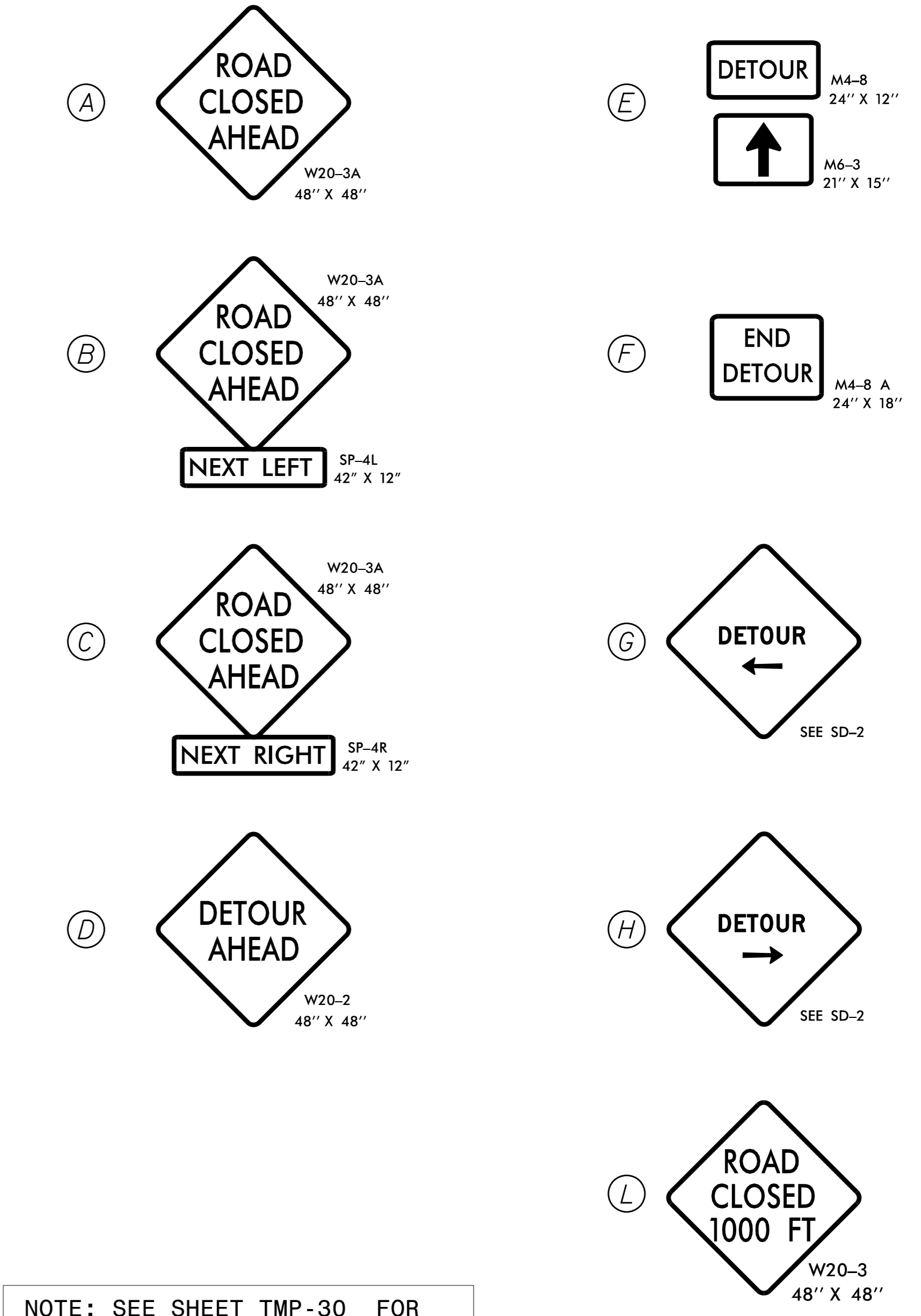
**Kimley»Horn**

**TRAFFIC CONTROL  
DETOUR SHEET**

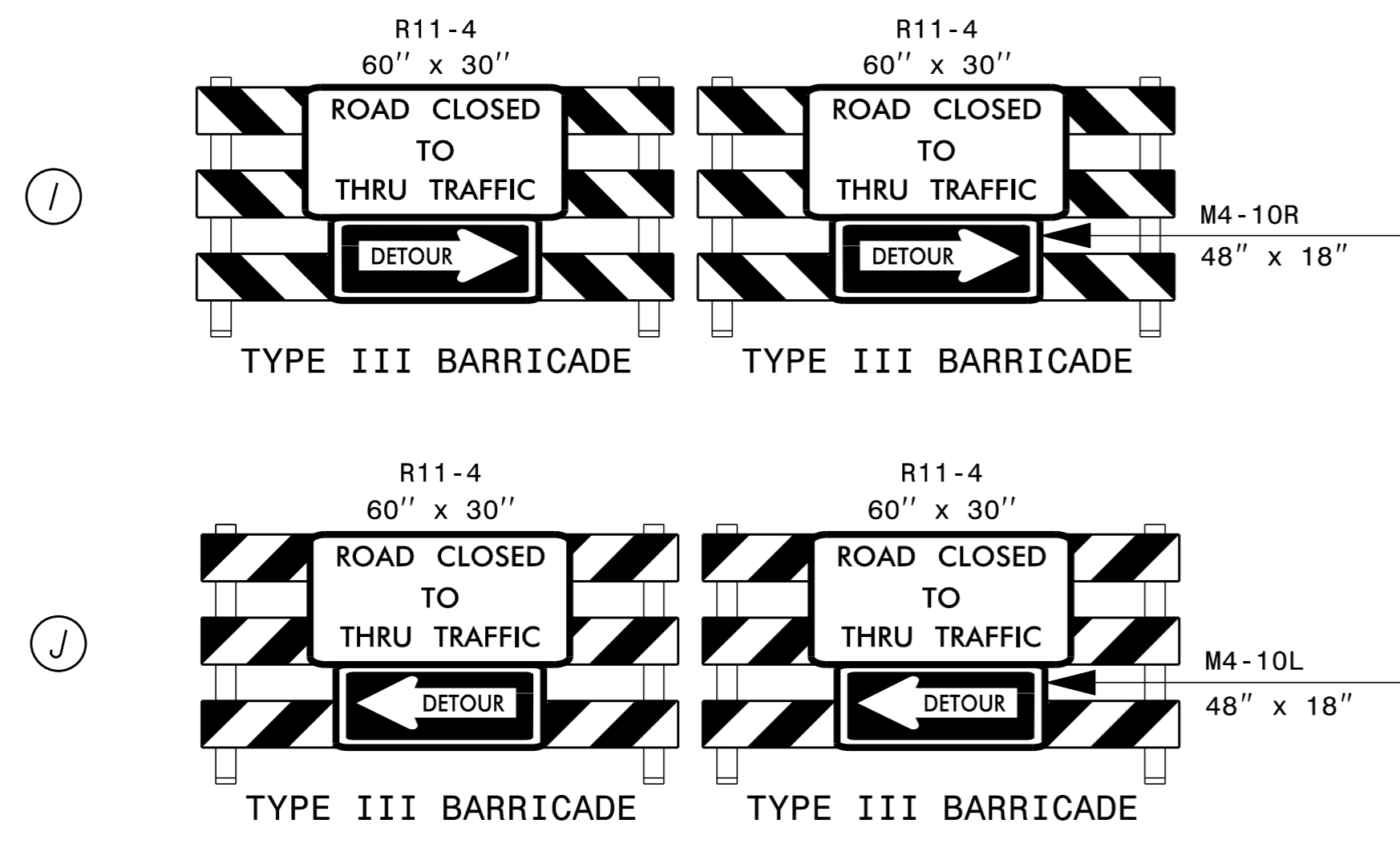
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### DETOUR ROUTE FOR FARMVILLE BLVD CLOSURE



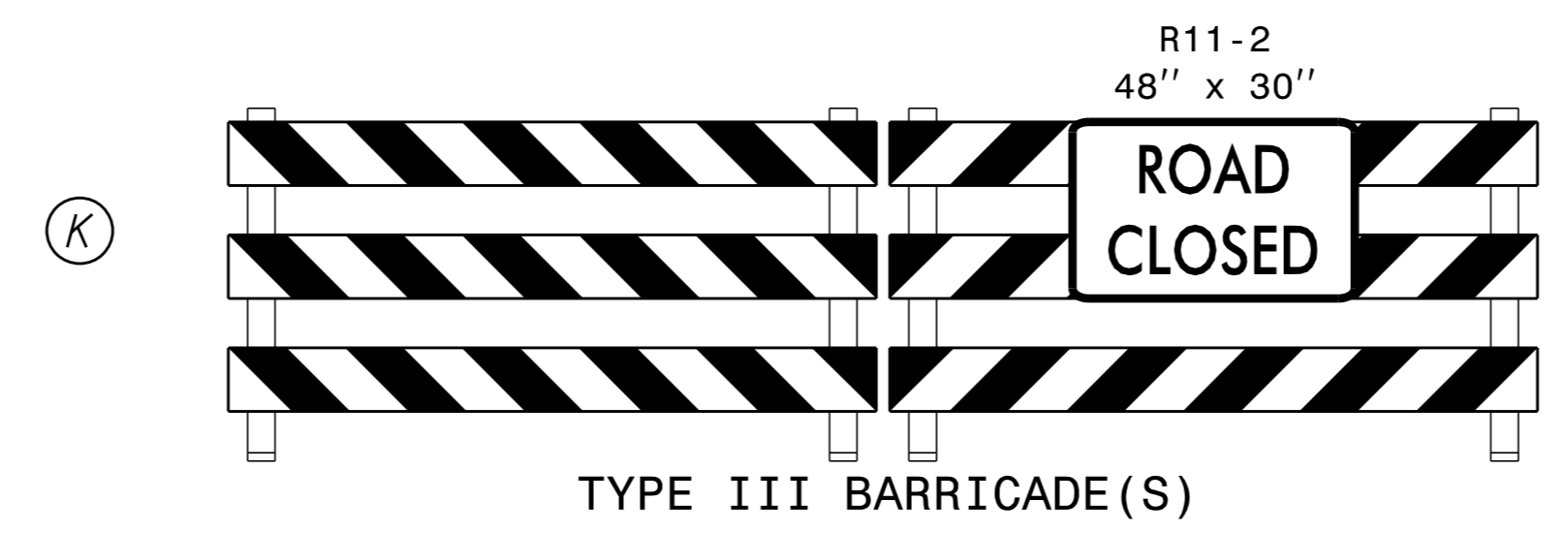
NOTE: SEE SHEET TMP-30 FOR ASSOCIATED 10TH STREET DETOUR



L	DISPLAY MESSAGE 2 DAYS PRIOR TO CLOSURE		DISPLAY MESSAGE DURING CLOSURE	
	MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
	ROAD WILL BE CLOSED	FRI - SUN NIGHTS 9PM - 6AM	ROAD CLOSED AHEAD	FOLLOW DETOUR ROUTE

CHANGEABLE MESSAGE SIGN      CHANGEABLE MESSAGE SIGN

PLACE CMS 1/2 MILE IN ADVANCE OF CLOSURE



#### LEGEND

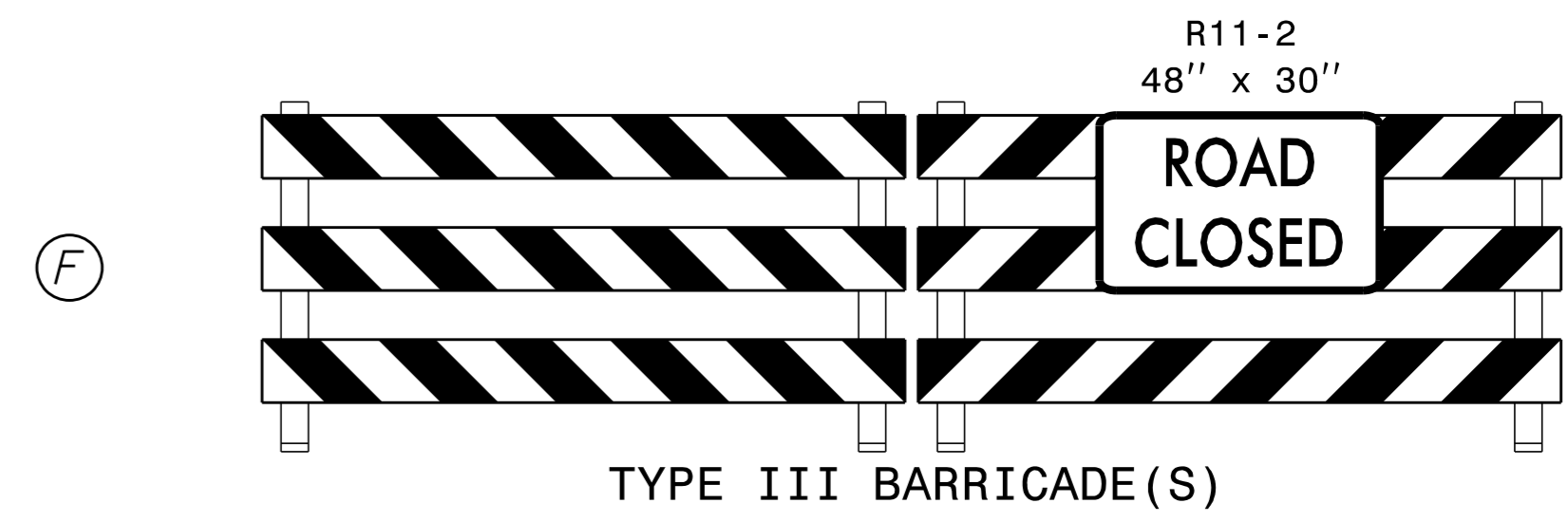
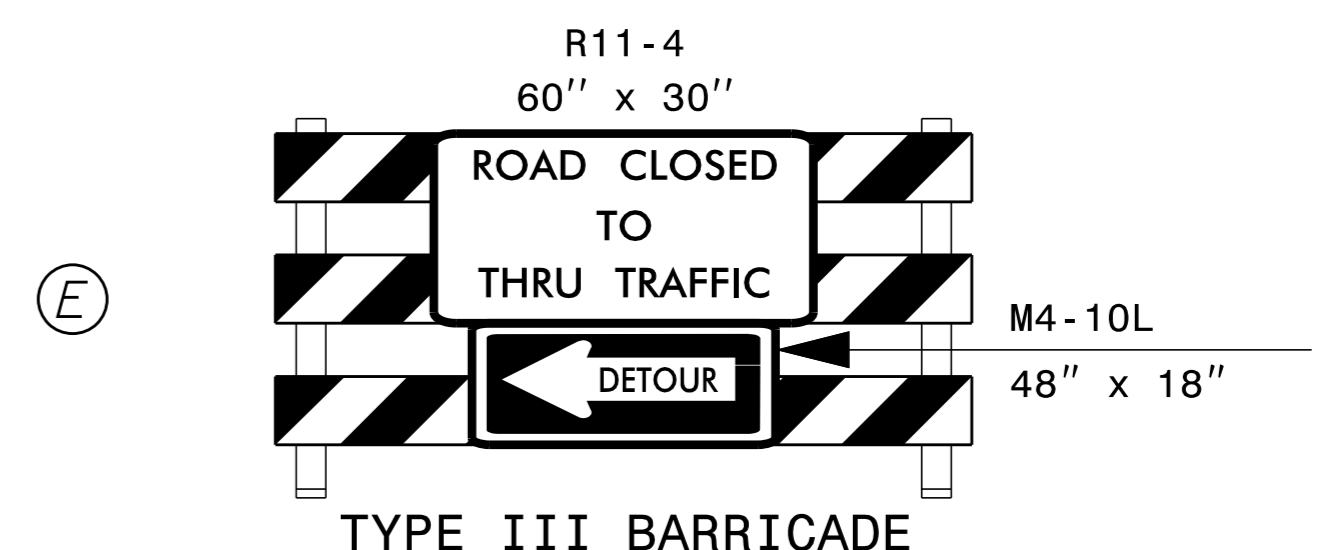
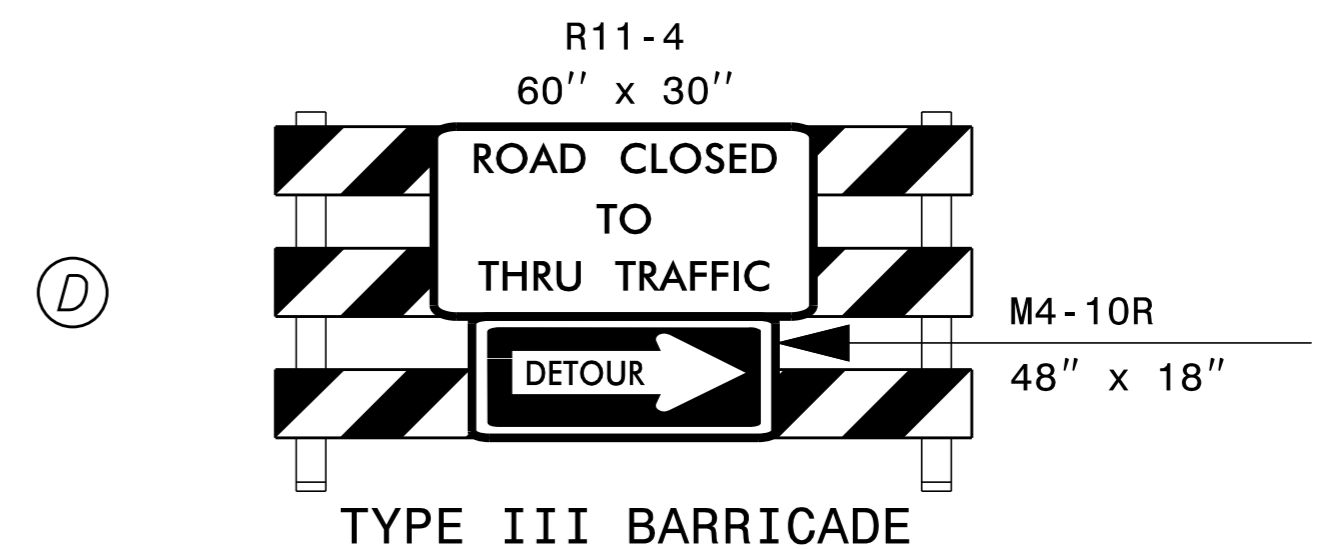
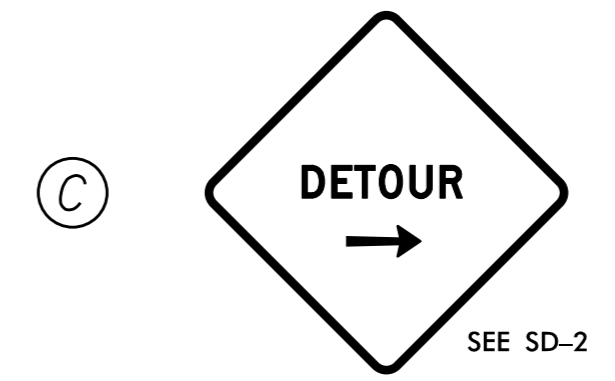
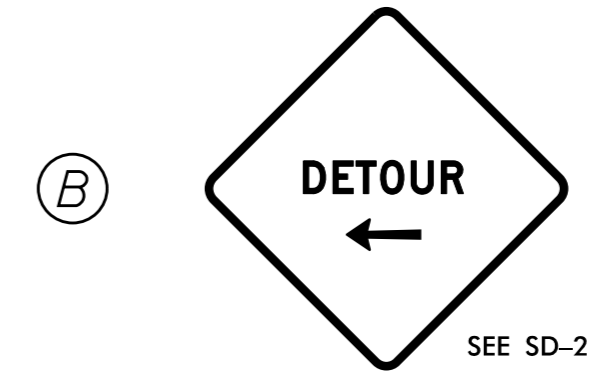
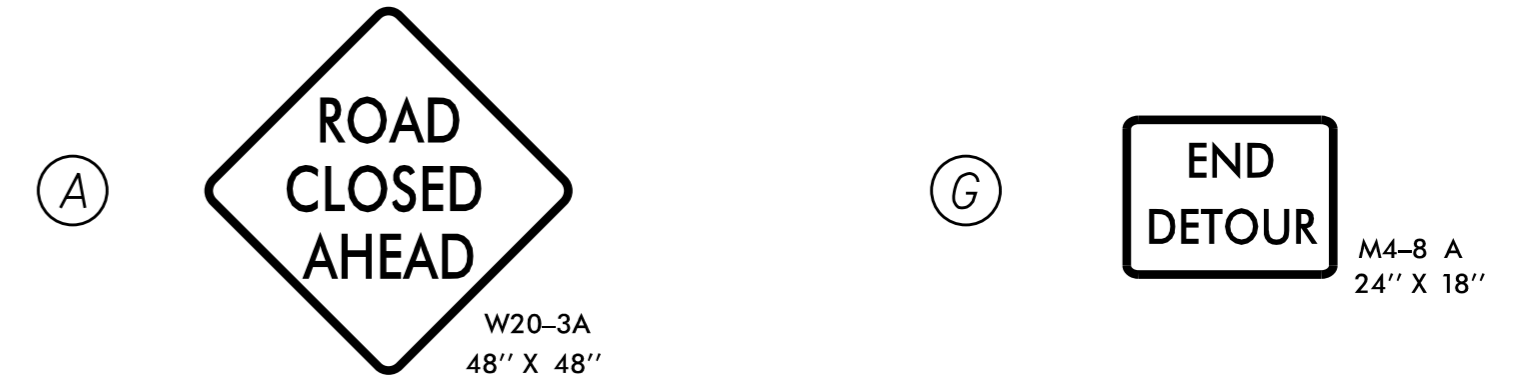
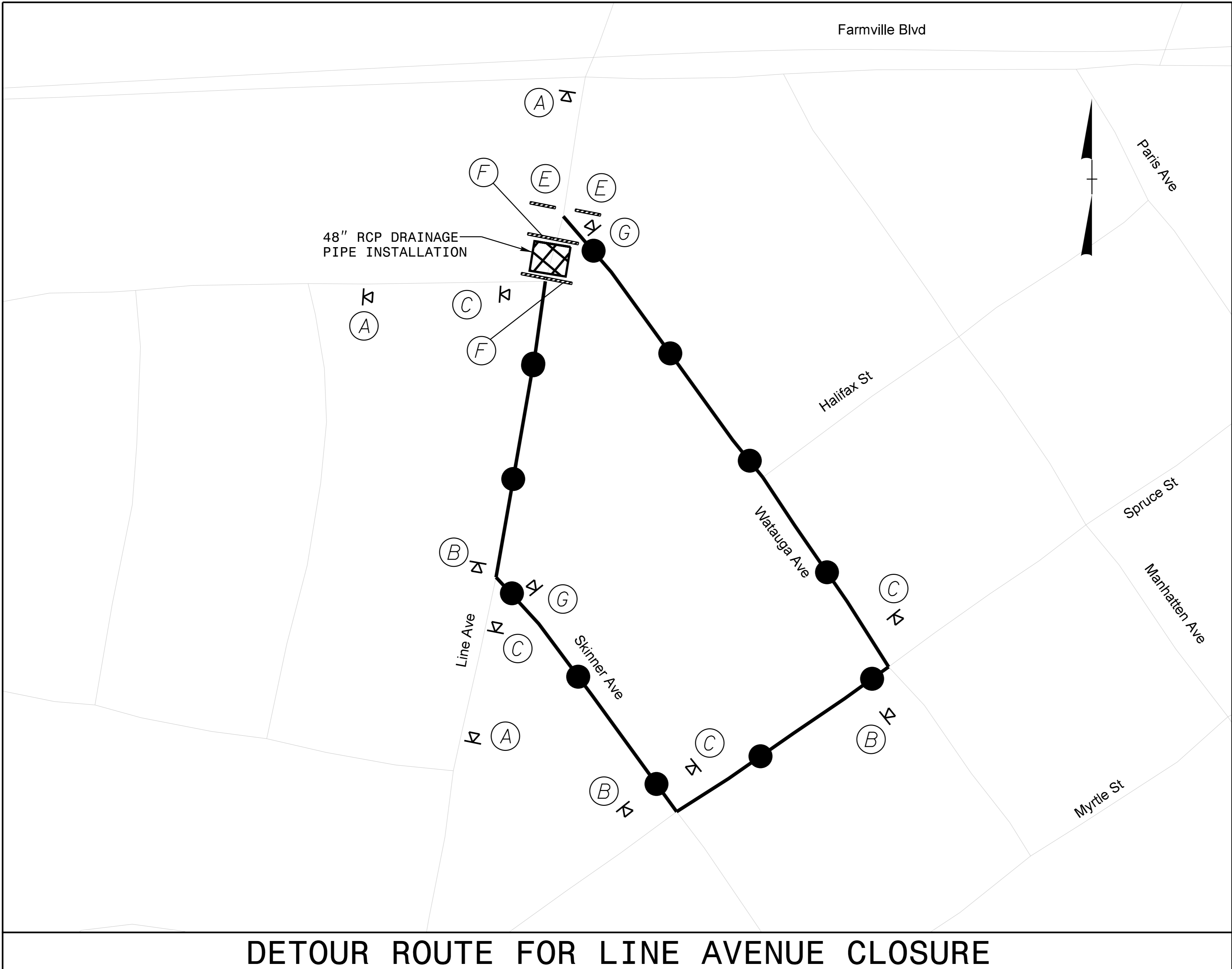
- WORK ZONE
- DETOUR ROUTE
- BARRICADE
- PORTABLE SIGN

APPROVED: Jason Pace DATE: 11/4/2014

# Kimley»Horn

## TRAFFIC CONTROL DETOUR SHEET

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**LEGEND**

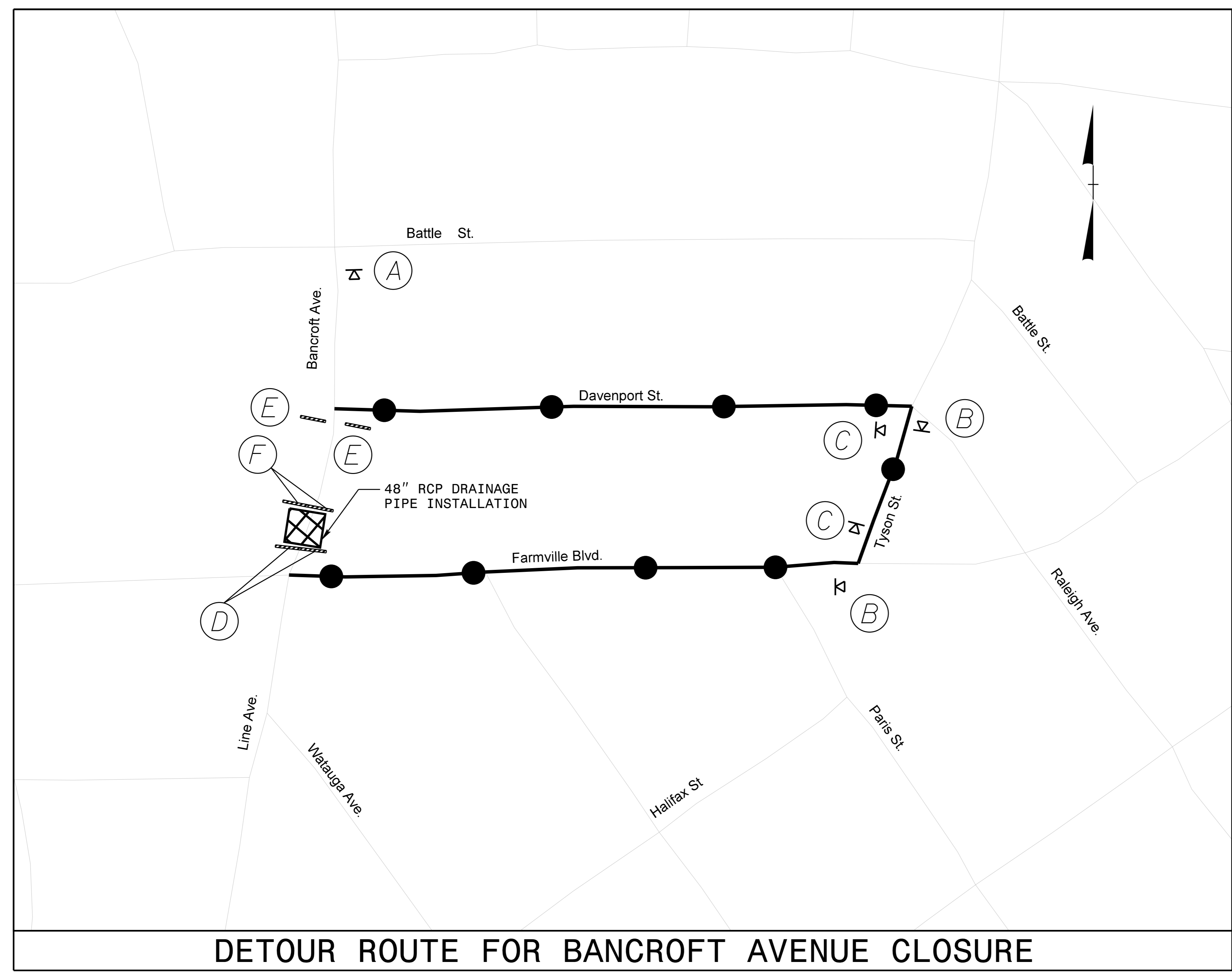
- WORK ZONE
- DETOUR ROUTE
- BARRICADE
- PORTABLE SIGN

APPROVED: Jason Pace DATE: 11/17/2014

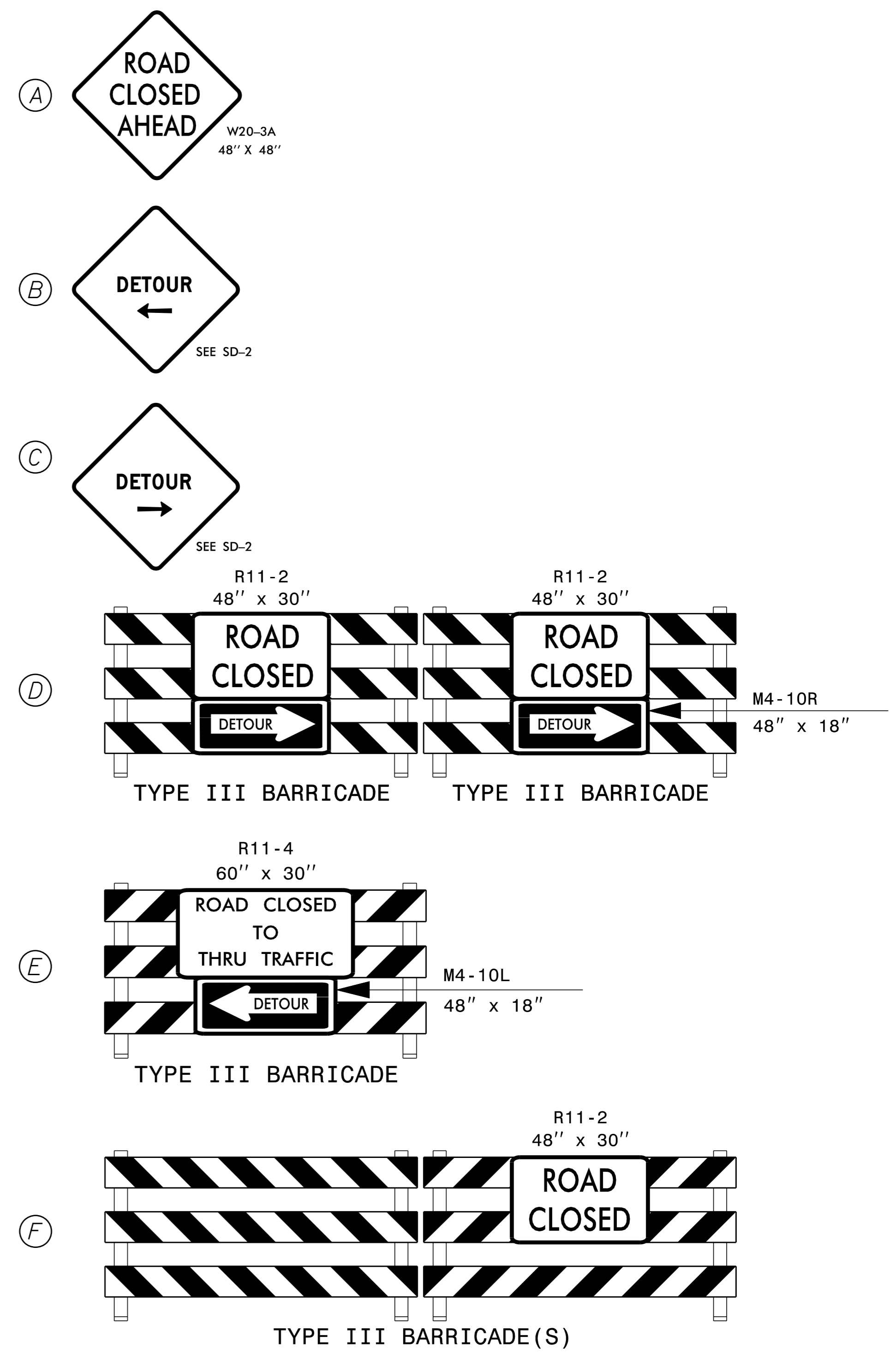
**Kimley»Horn**

**TRAFFIC CONTROL  
DETOUR SHEET**

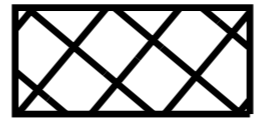



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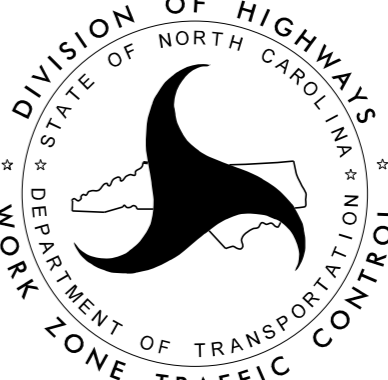
DETOUR ROUTE FOR BANCROFT AVENUE CLOSURE



**LEGEND**

-  WORK ZONE
-  DETOUR ROUTE
-  BARRICADE
-  PORTABLE SIGN

APPROVED: Jason Pace DATE: 11/17/2014

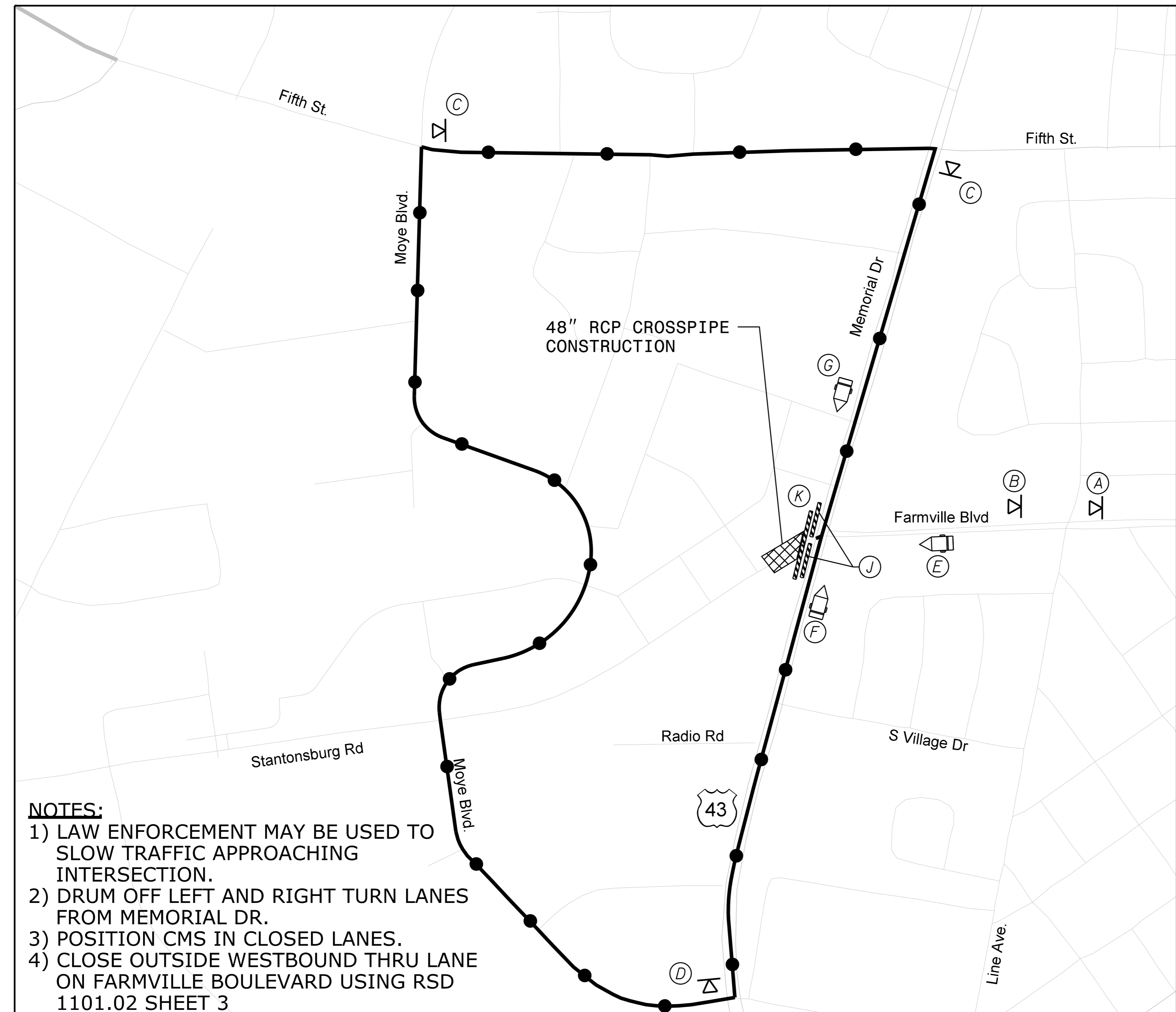



**Kimley»Horn**

**TRAFFIC CONTROL  
DETOUR SHEET**

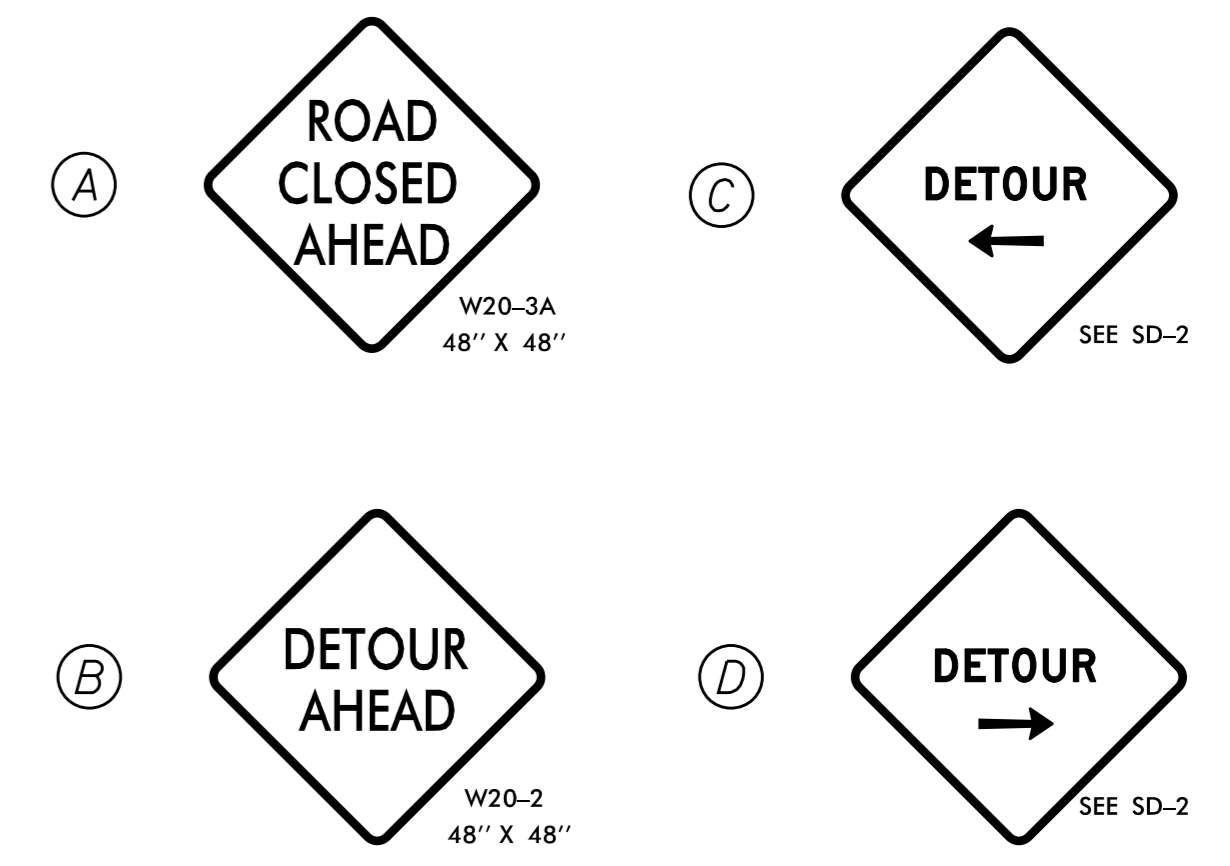
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- NOTES:**
- 1) LAW ENFORCEMENT MAY BE USED TO SLOW TRAFFIC APPROACHING INTERSECTION.
  - 2) DRUM OFF LEFT AND RIGHT TURN LANES FROM MEMORIAL DR.
  - 3) POSITION CMS IN CLOSED LANES.
  - 4) CLOSE OUTSIDE WESTBOUND THRU LANE ON FARMVILLE BOULEVARD USING RSD 1101.02 SHEET 3

**DETOUR ROUTE FOR WESTBOUND STANTONSBURG ROAD CLOSURE**

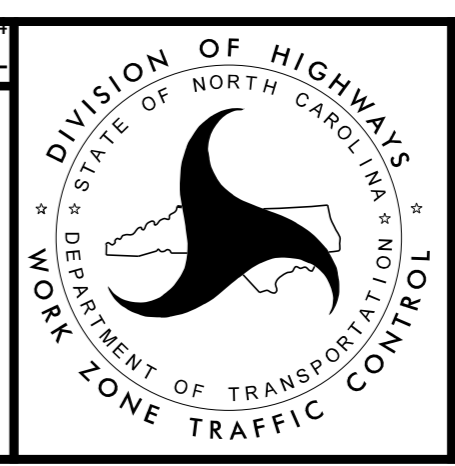
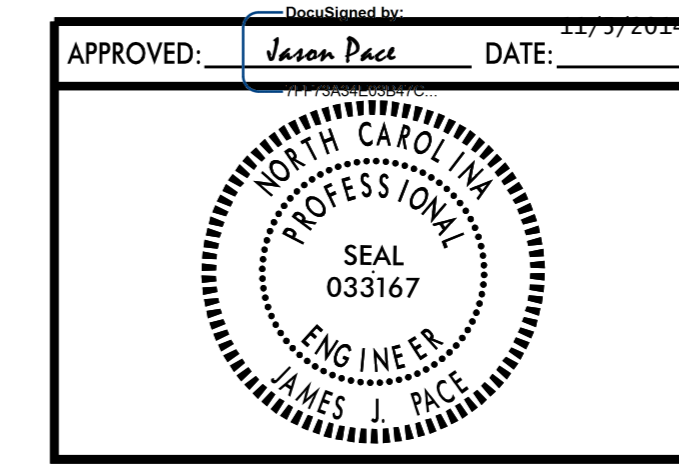
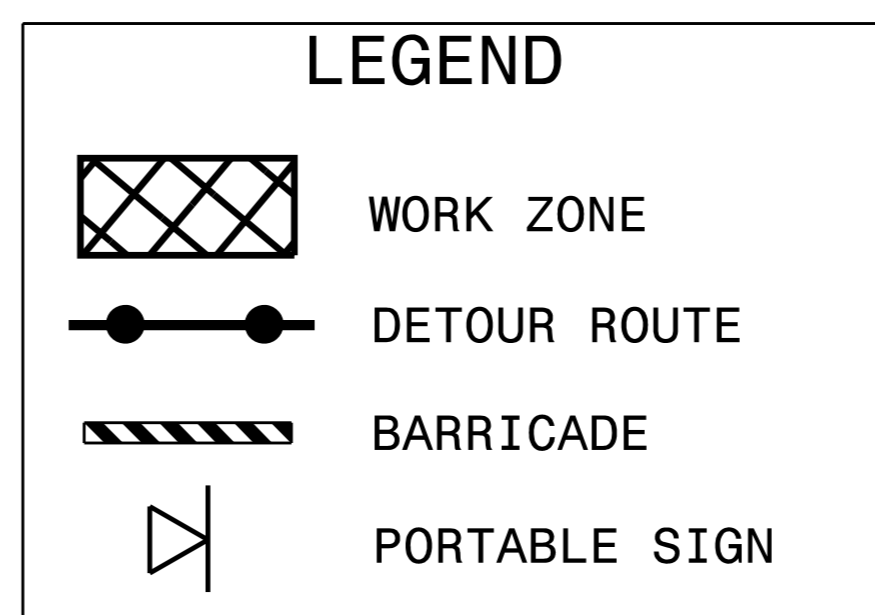
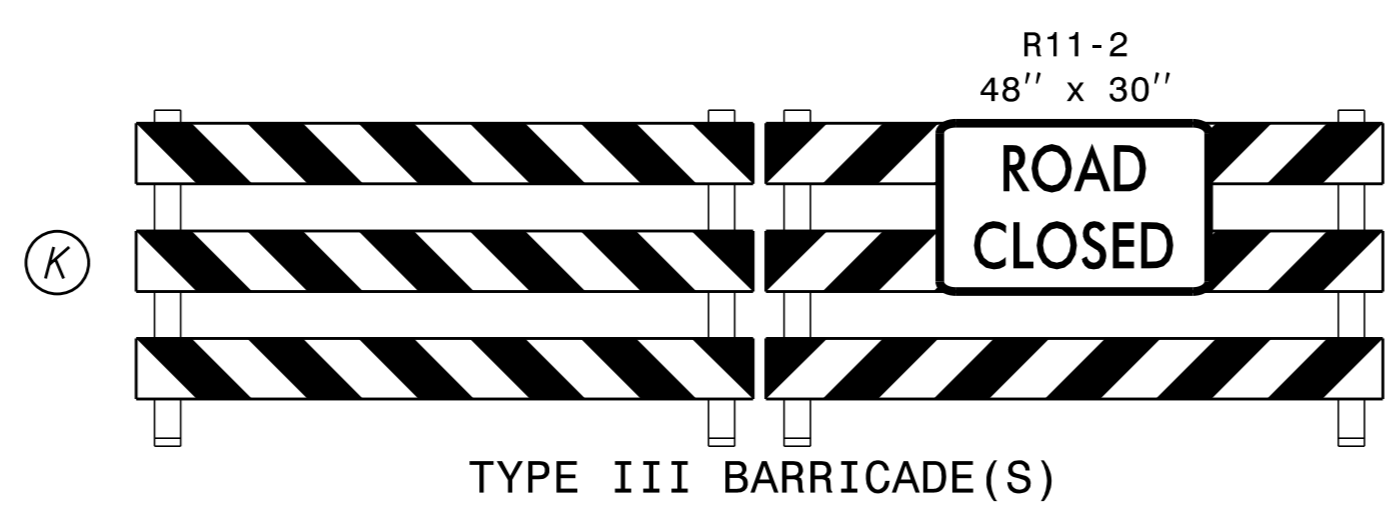
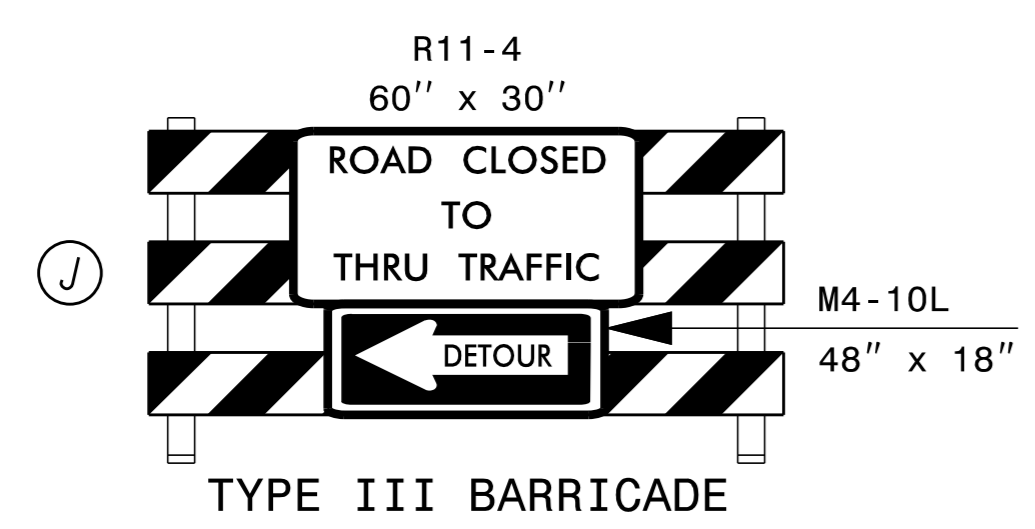


DISPLAY MESSAGE DAY OF CLOSURE		DISPLAY MESSAGE DURING CLOSURE	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
WB LANES WILL BE CLOSED	TONIGHT STARTING 9PM	ROAD CLOSED AHEAD	FOLLOW DETOUR
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED NEXT LT	DETOUR STRAIGHT AHEAD
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED NEXT RT	DETOUR STRAIGHT AHEAD
CHANGEABLE MESSAGE SIGN	

PLACE CMS 1/2 MILE IN ADVANCE OF CLOSURE

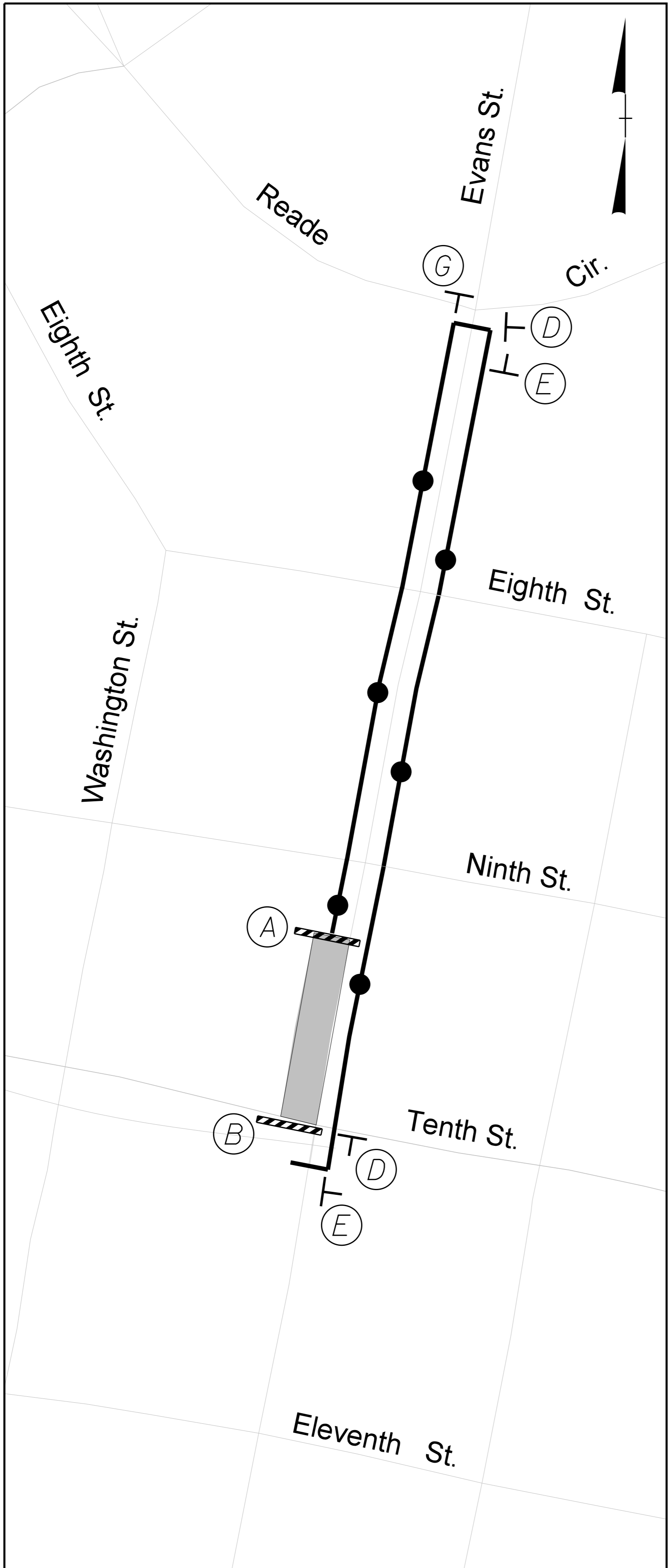


**Kimley»Horn**

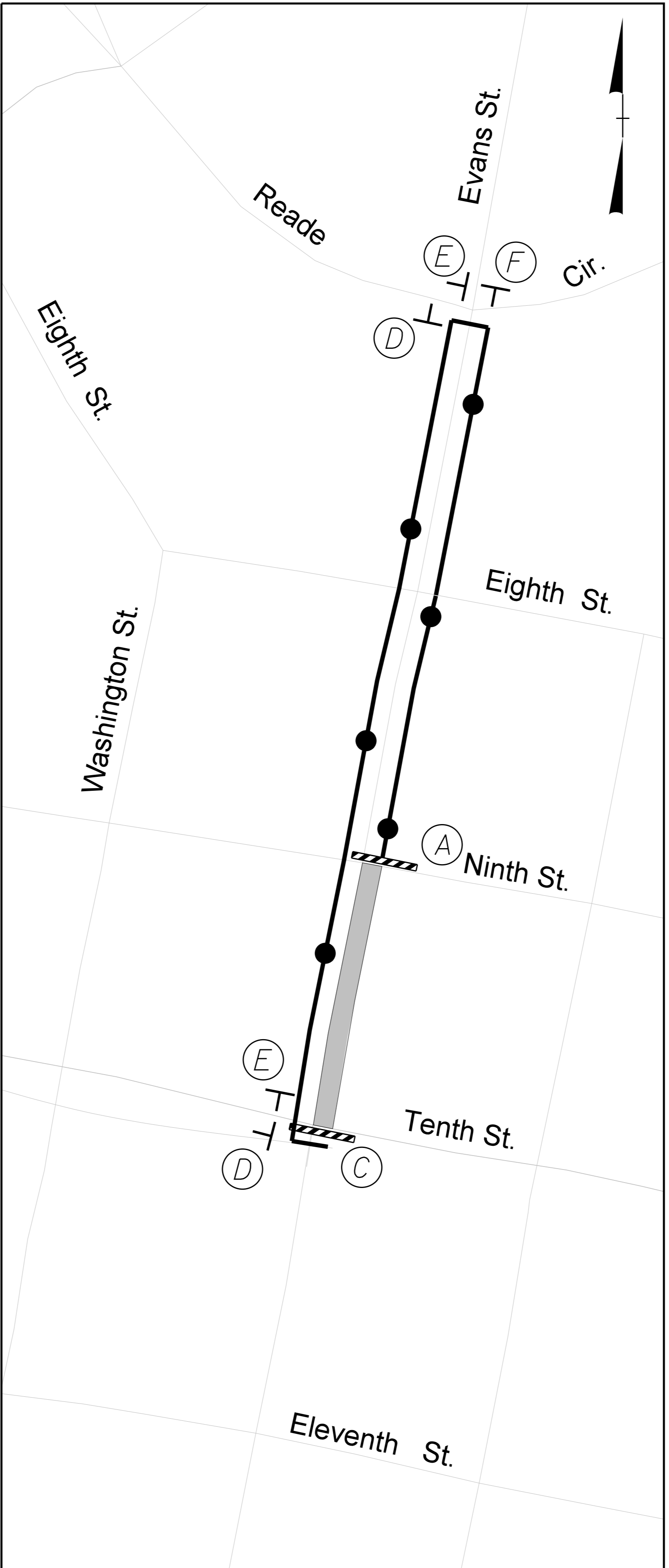
**TRAFFIC CONTROL  
DETOUR SHEET**

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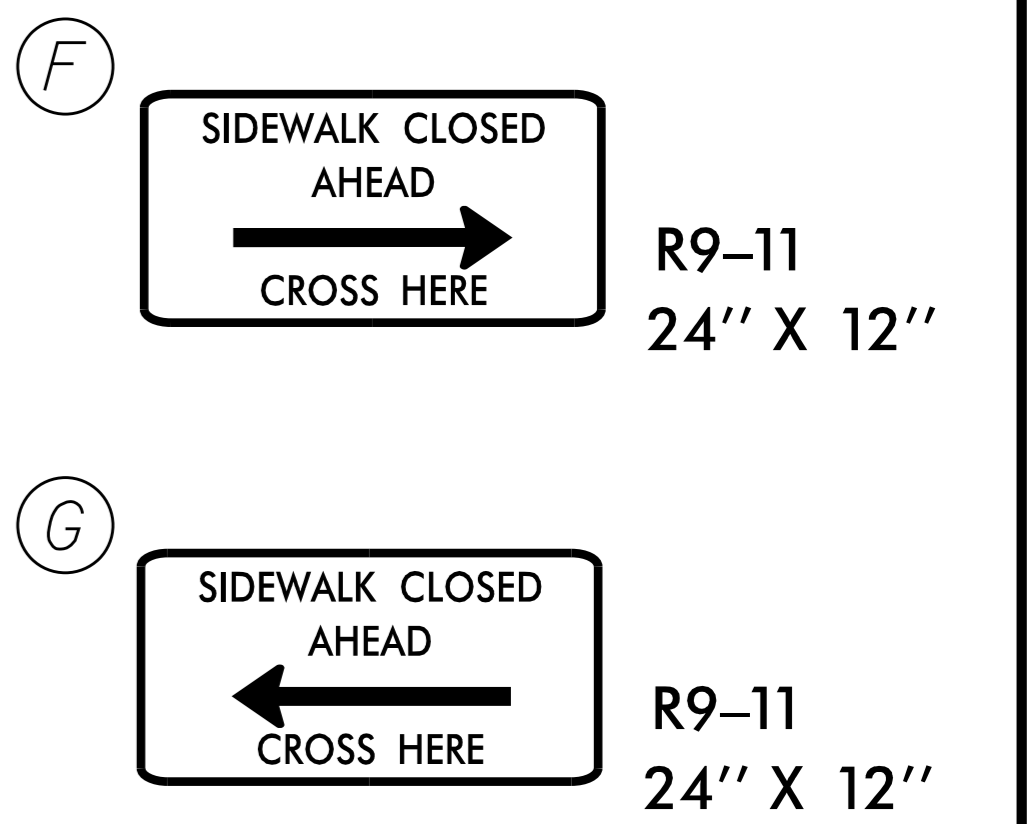
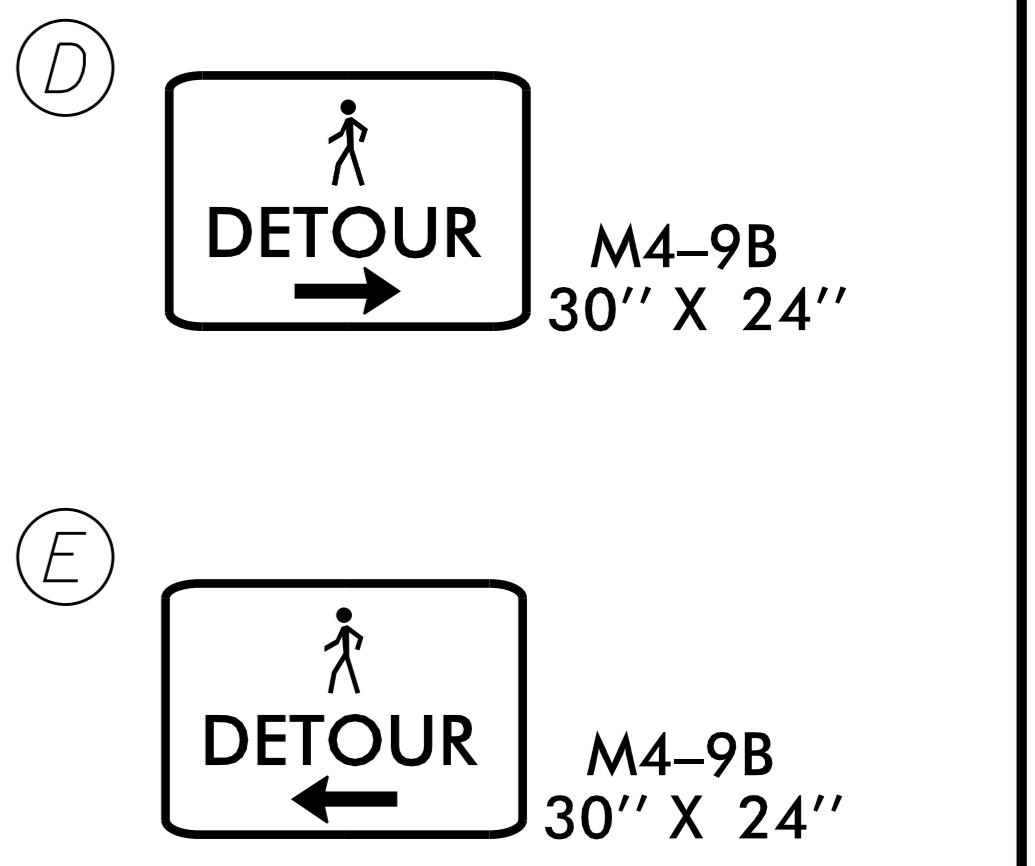
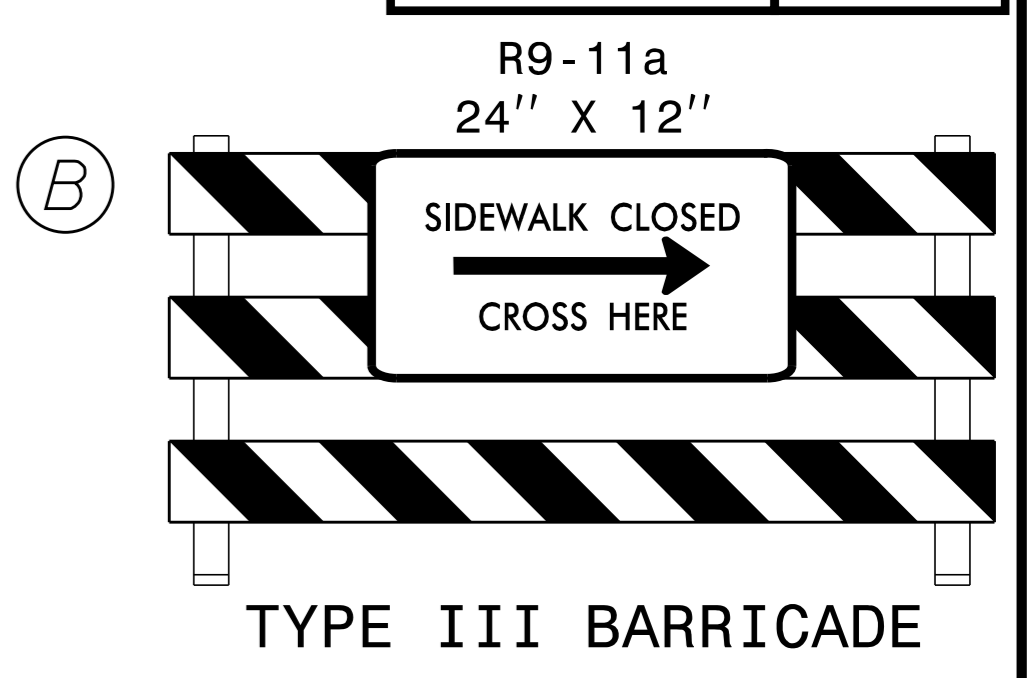
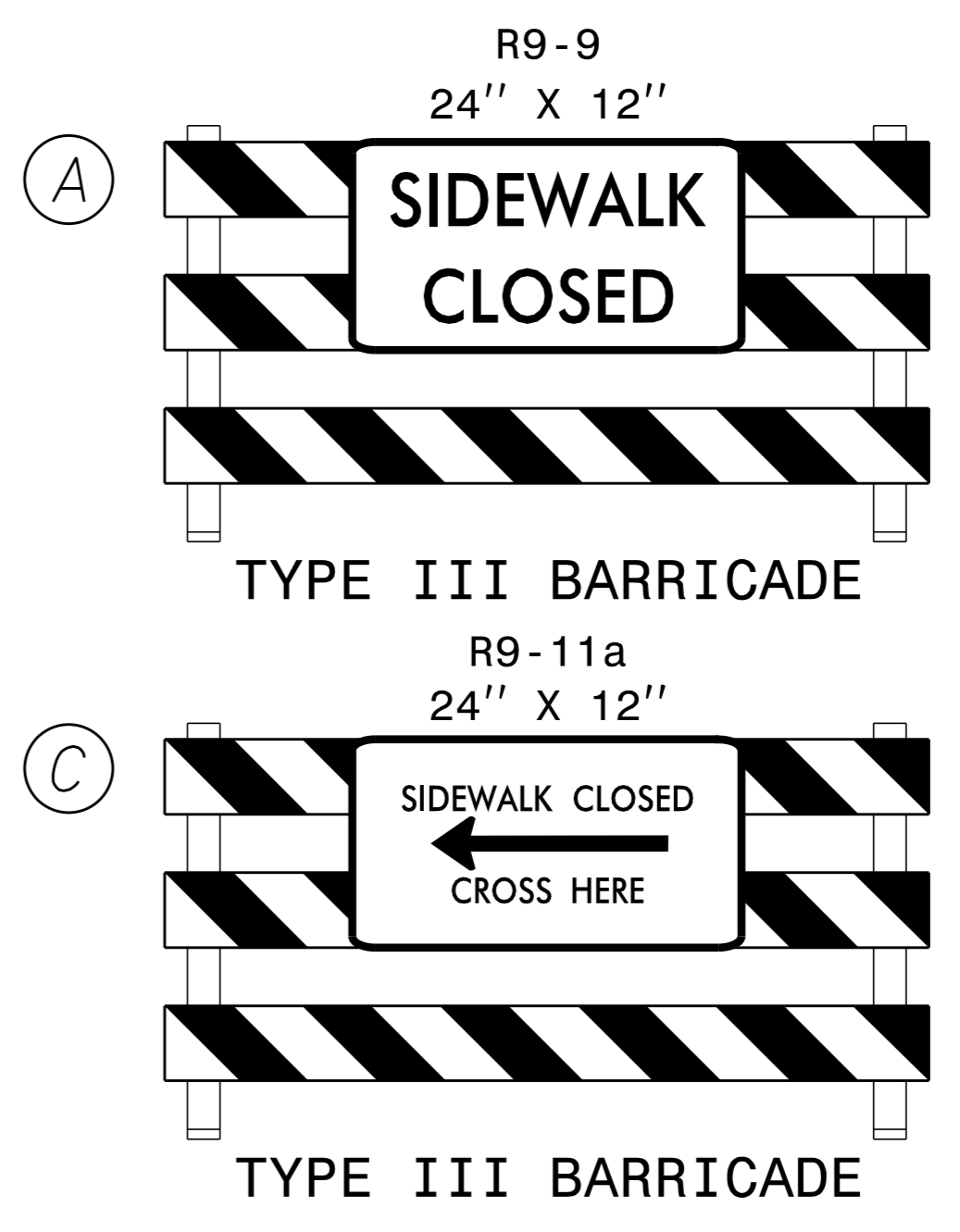
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11/4/2014



PEDESTRIAN DETOUR FOR PHASE 1  
EVANS ST. CONSTRUCTION



PEDESTRIAN DETOUR FOR PHASE 1  
EVANS ST. CONSTRUCTION



**LEGEND**

- WORK ZONE
- DETOUR ROUTE
- BARRICADE
- STATIONARY SIGN

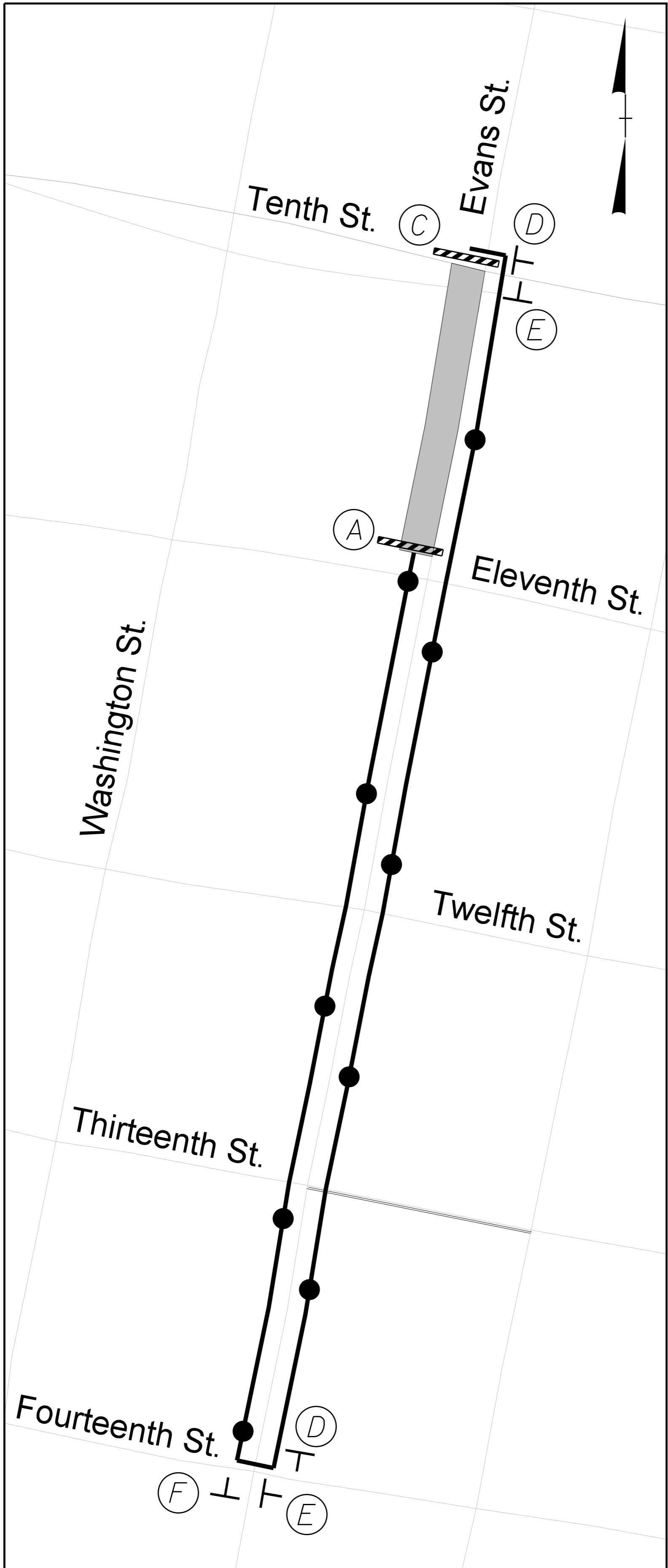
**Kimley»Horn**

APPROVED: Jason Pace DATE: 11/5/2014

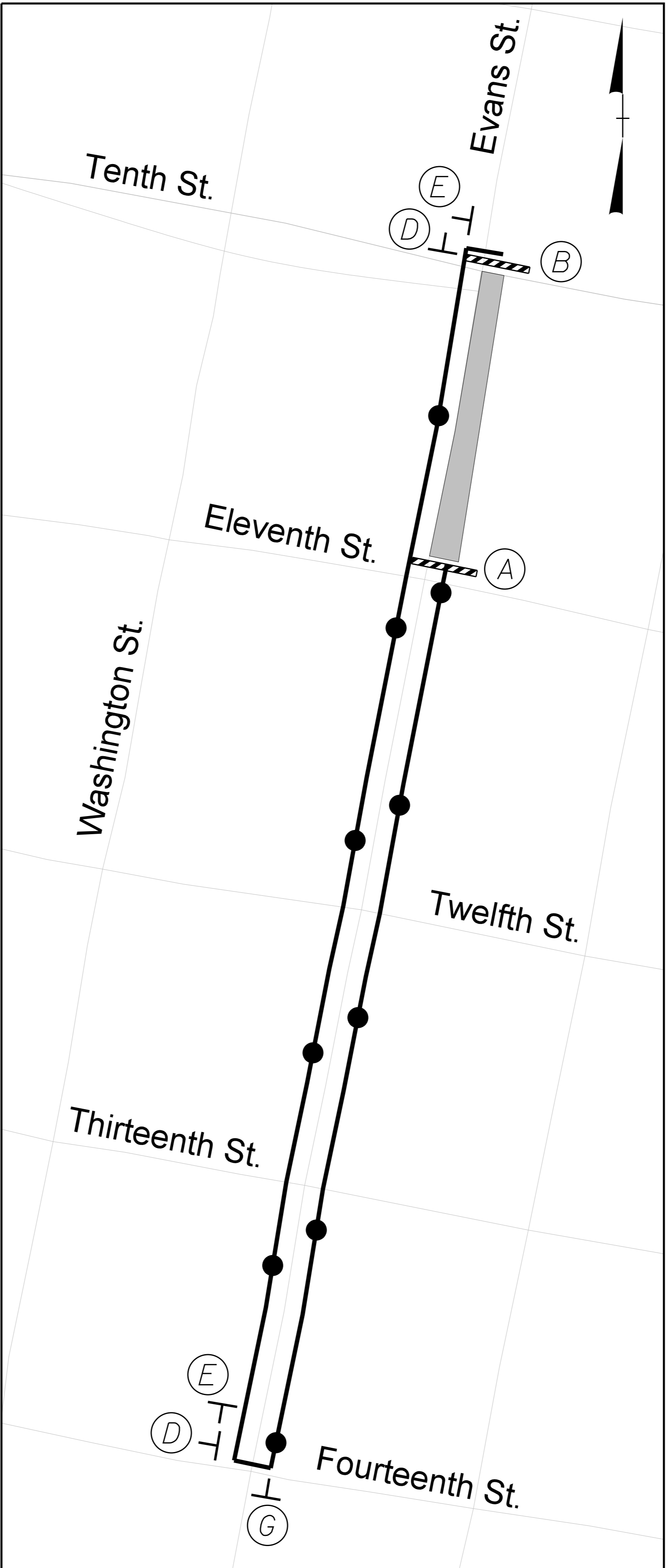
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

**TRAFFIC CONTROL  
DETOUR SHEET**

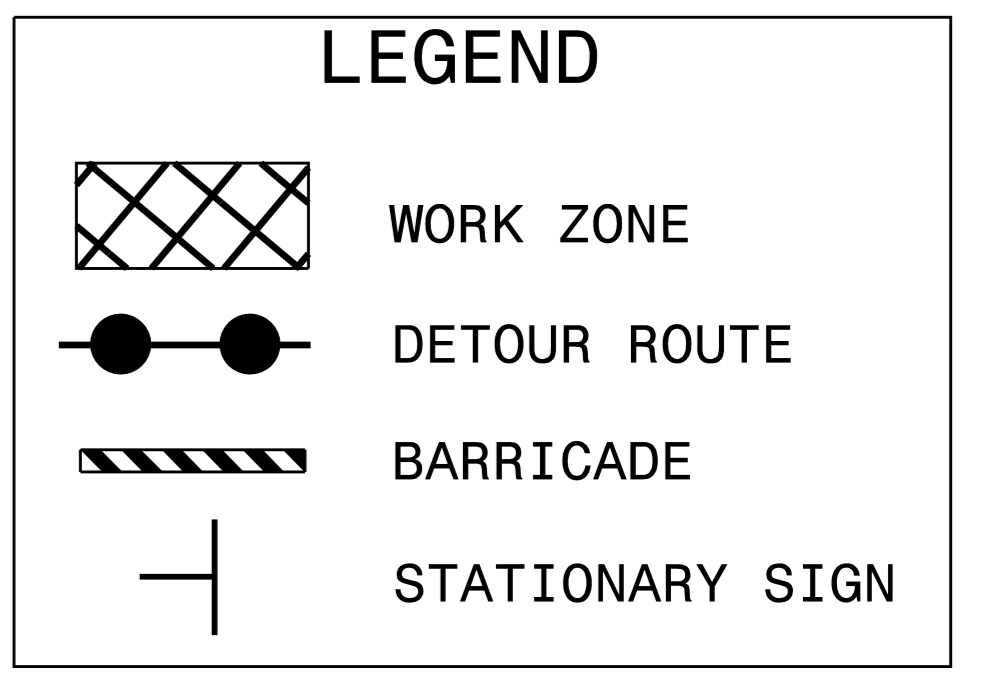
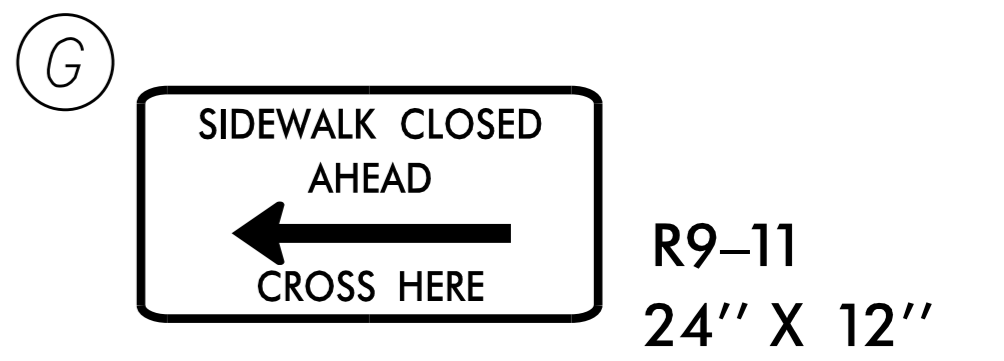
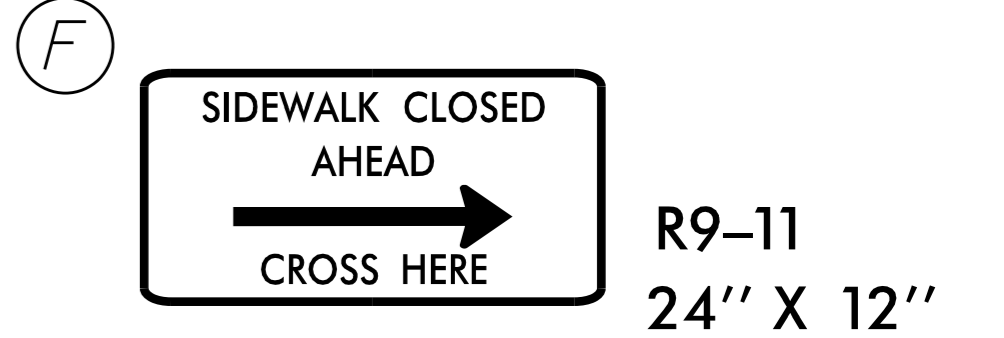
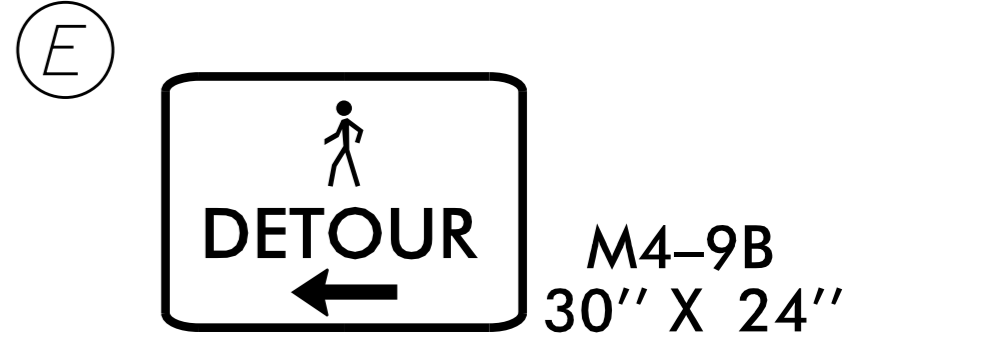
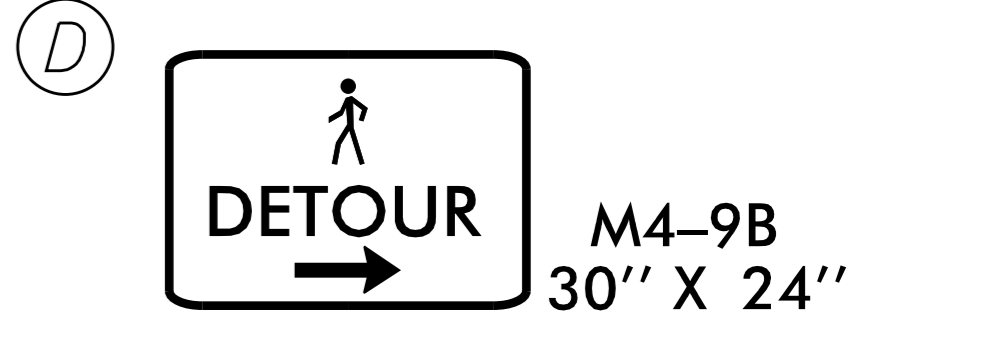
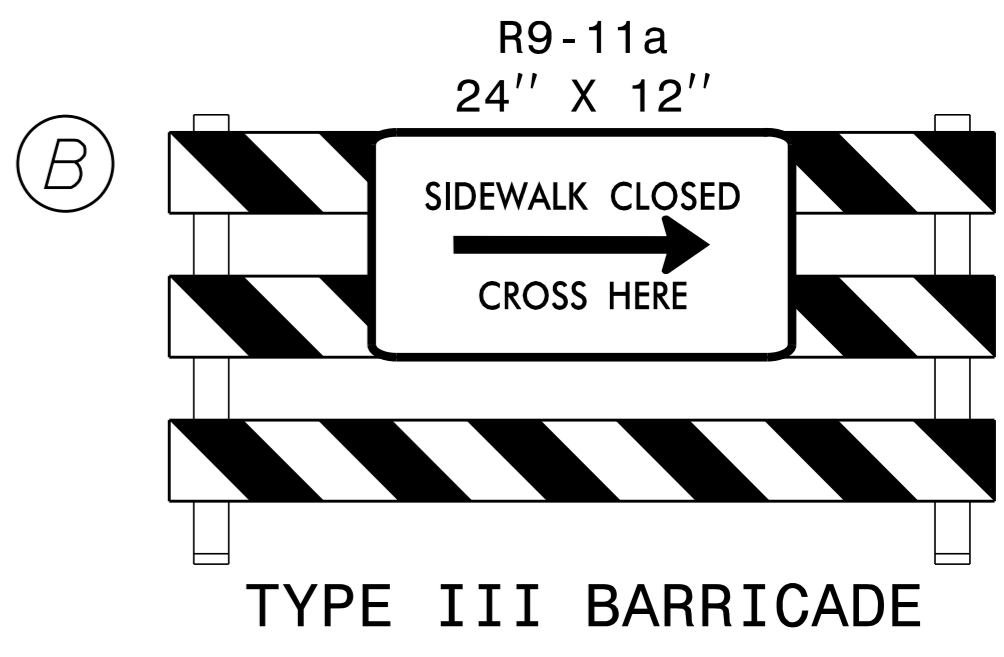
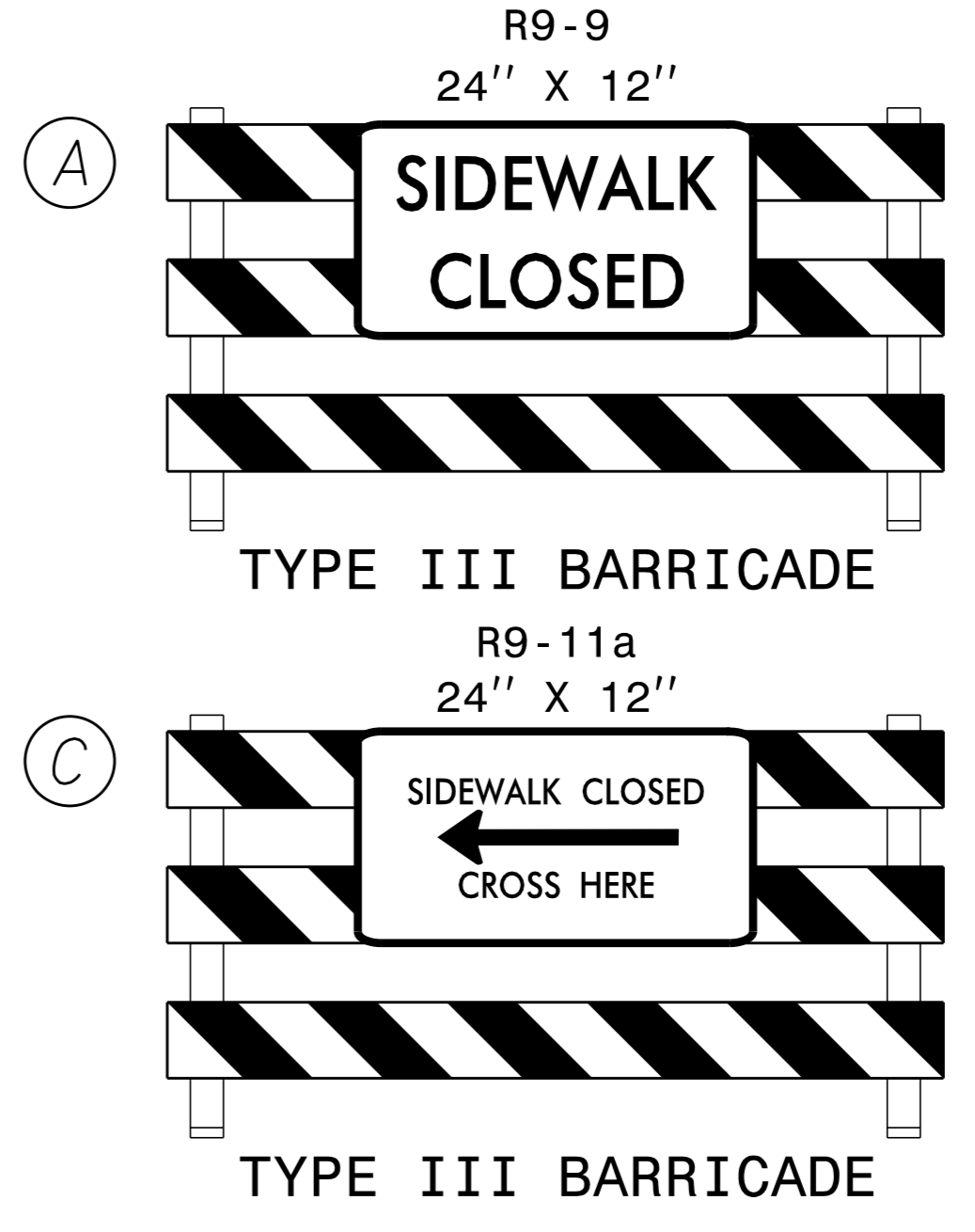
K:\RAL\_Roadway\01036175 (U-3315)NTrafficControl\TrafficControl\CP\Sheets\U3315\_TMP\_psM4.dgn



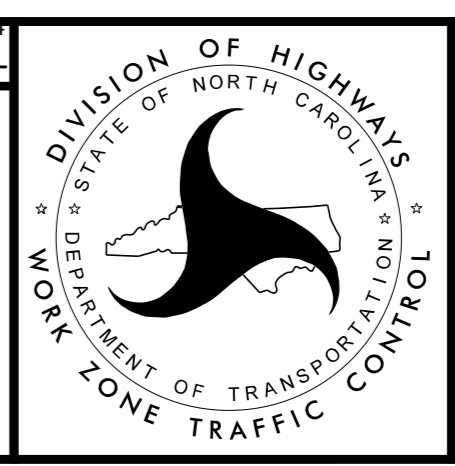
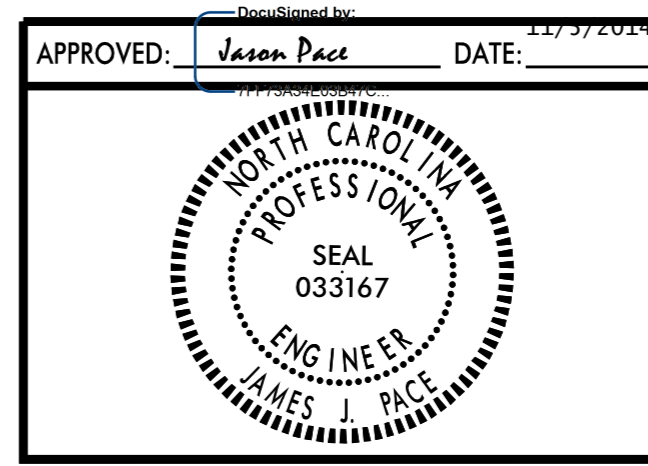
PEDESTRIAN DETOUR FOR PHASE 2  
EVANS ST. CONSTRUCTION



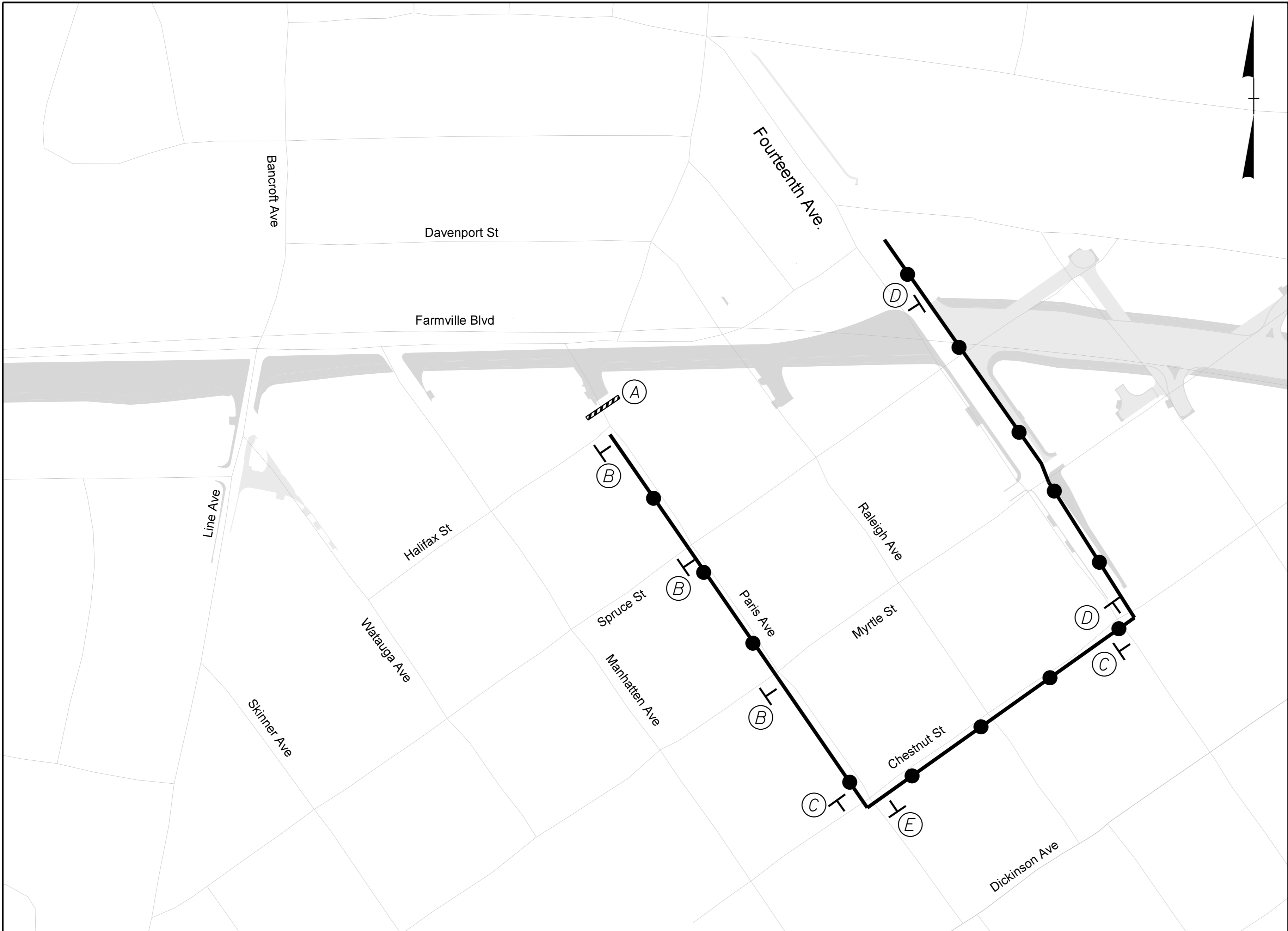
PEDESTRIAN DETOUR FOR PHASE 2  
EVANS ST. CONSTRUCTION



**Kimley»Horn**

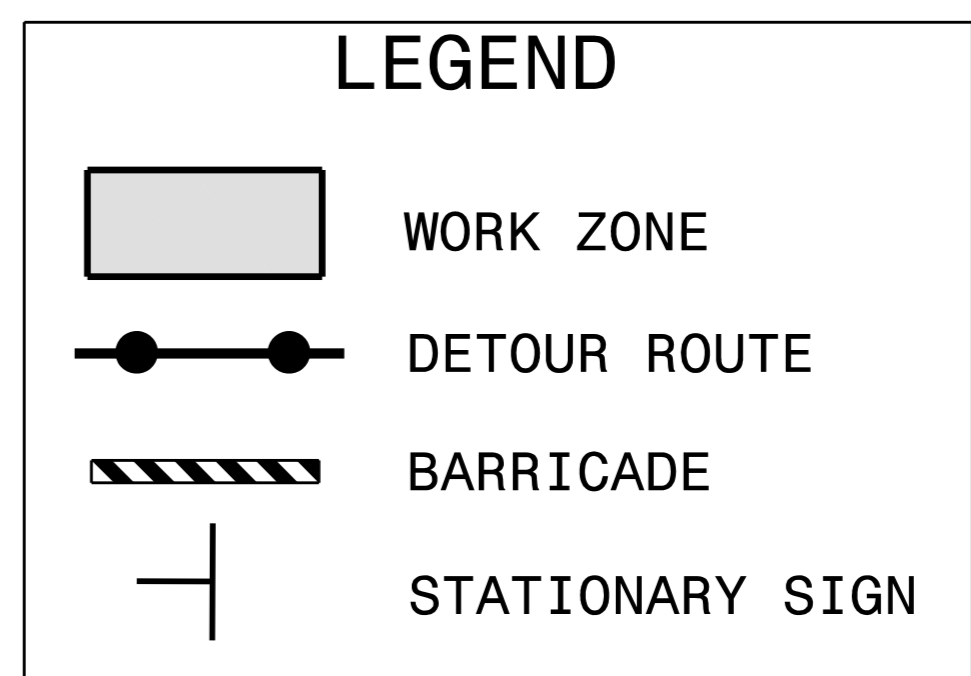
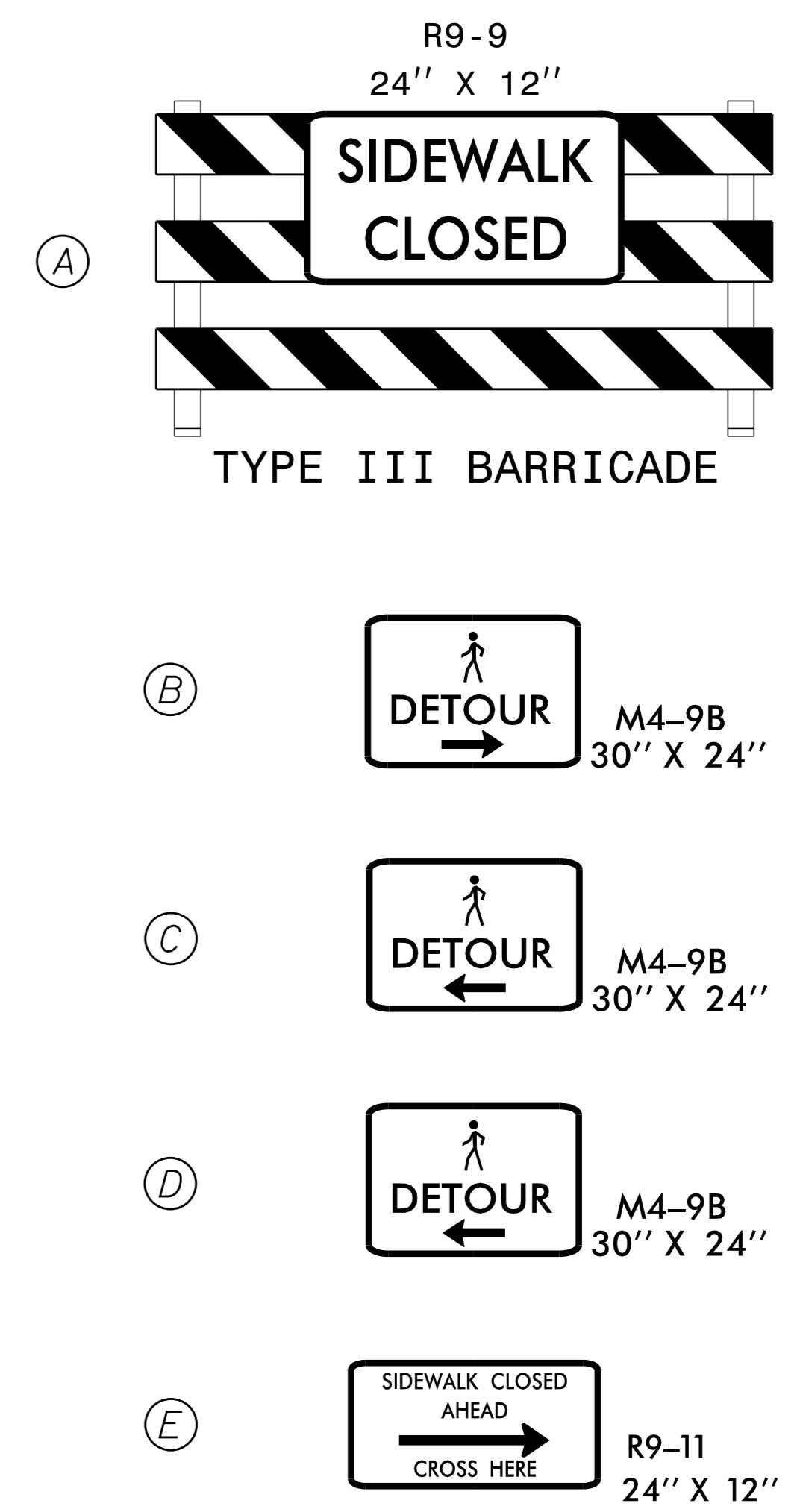


**TRAFFIC CONTROL  
DETOUR SHEET**



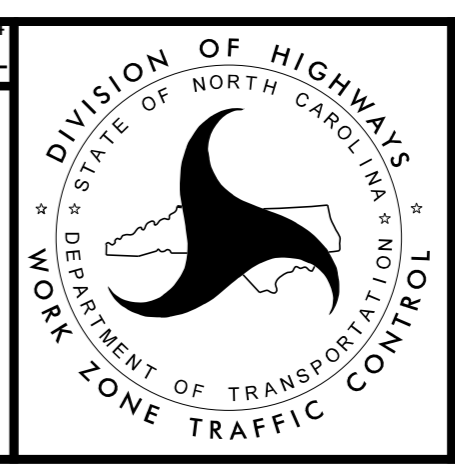
**PEDESTRIAN DETOUR ROUTE FOR  
PARIS AVENUE AND RALEIGH AVENUE CLOSURES**

NOTE: SEE SHEET TMP-33 FOR  
ASSOCIATED PARIS STREET AND  
RALEIGH AVENUE CLOSURES



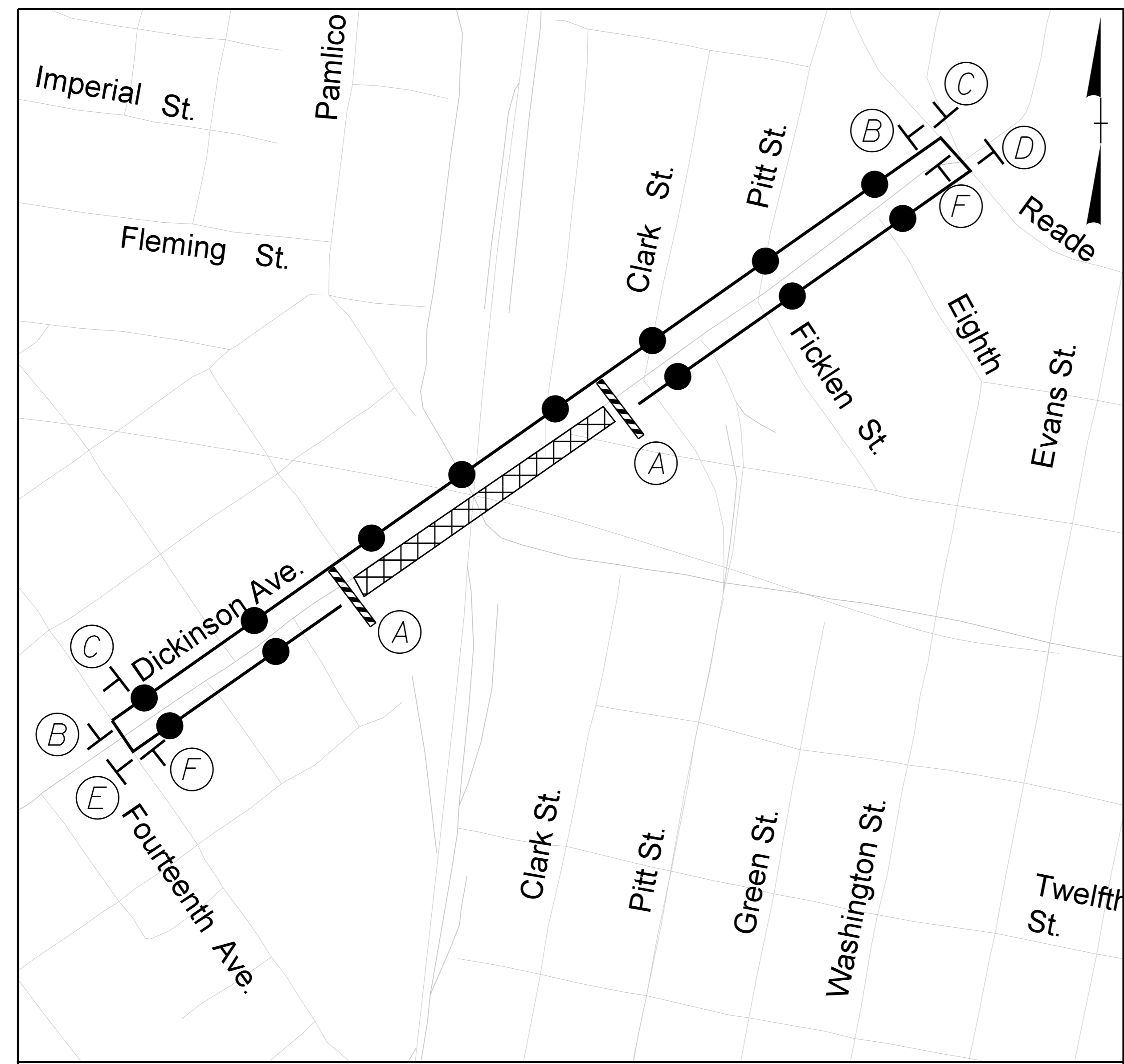
**Kimley»Horn**

APPROVED: Jason Pace DATE: 11/17/2014

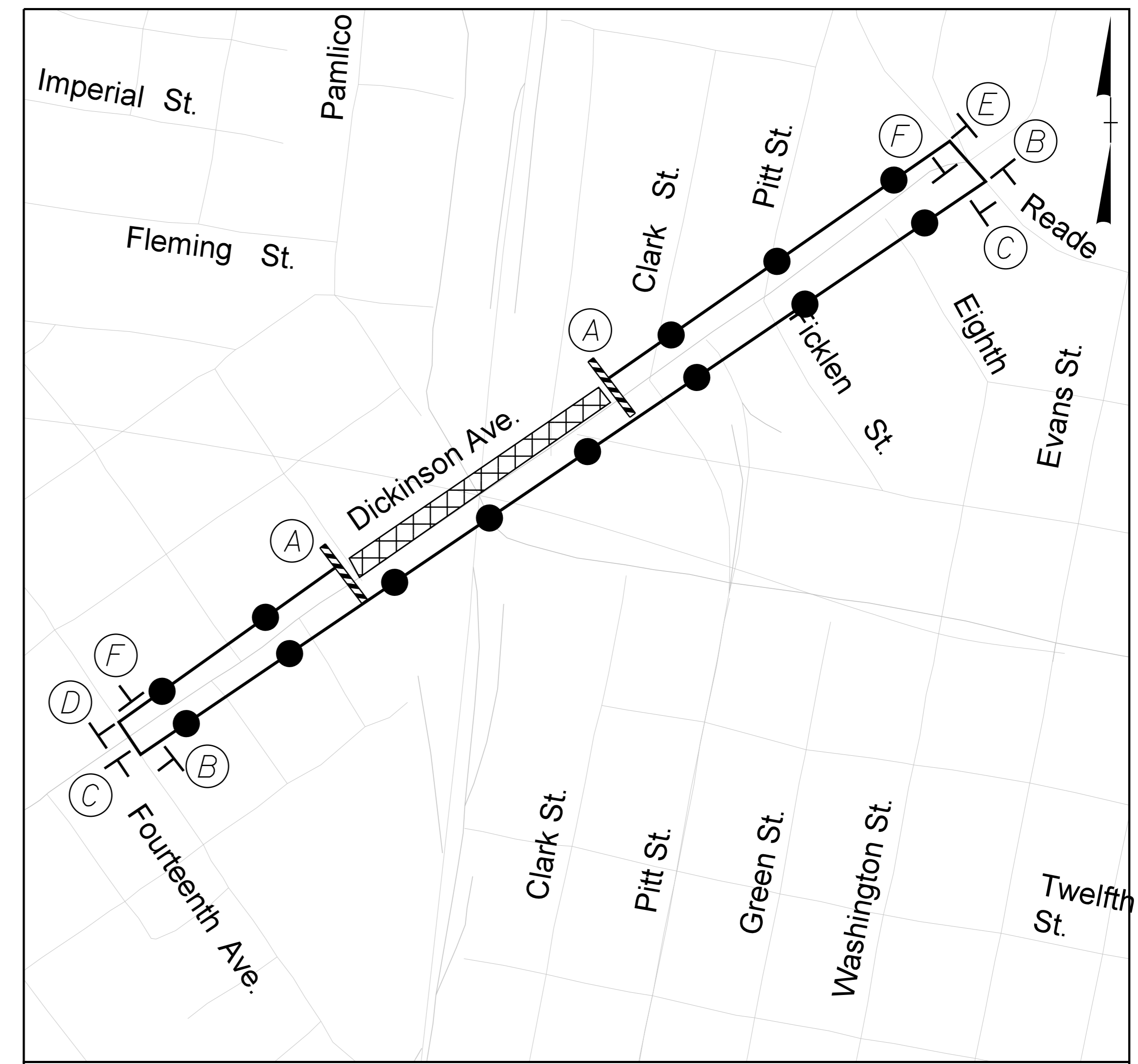


**TRAFFIC CONTROL  
DETOUR SHEET**

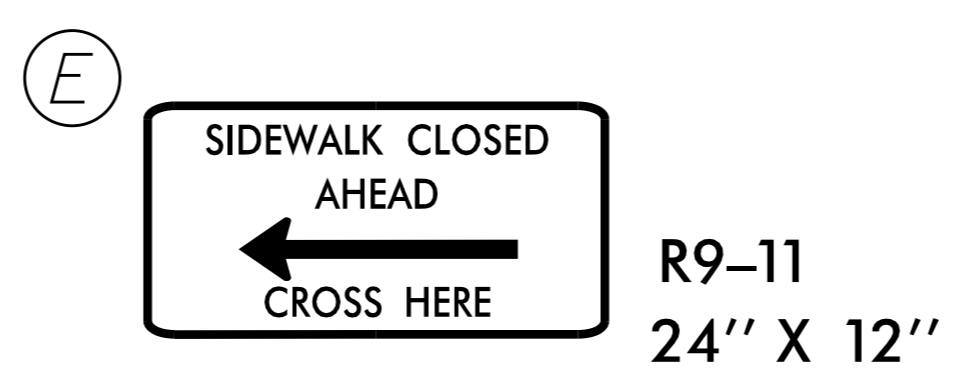
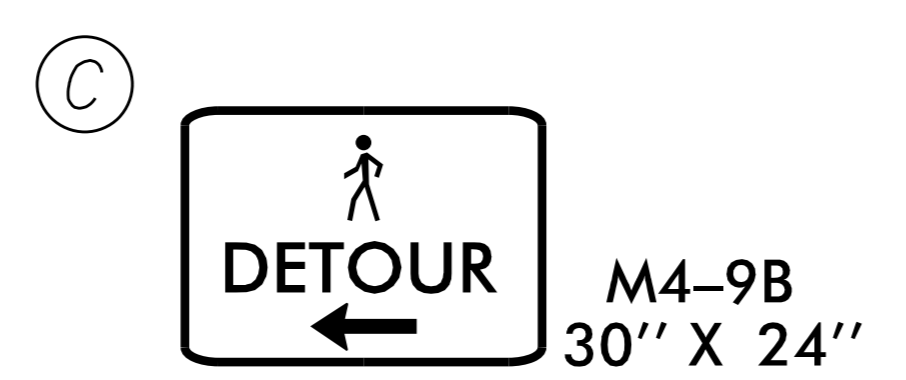
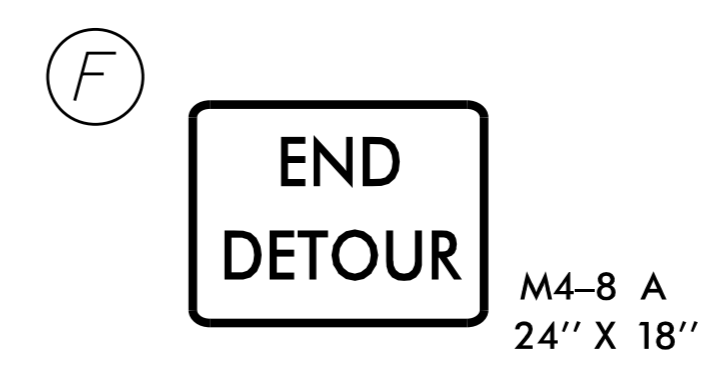
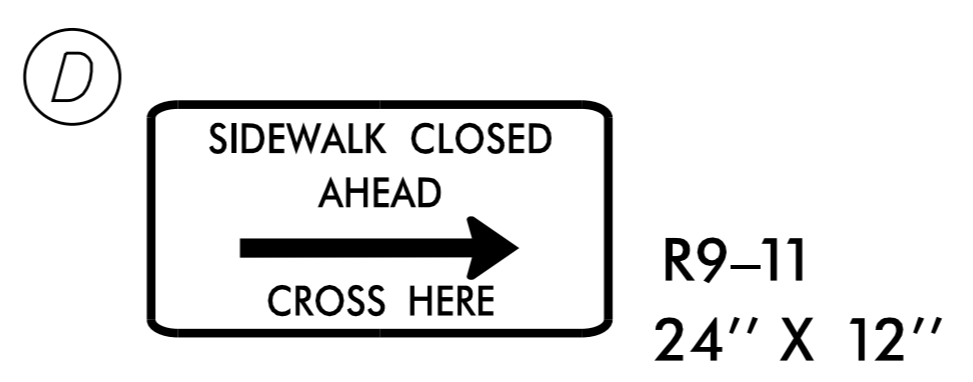
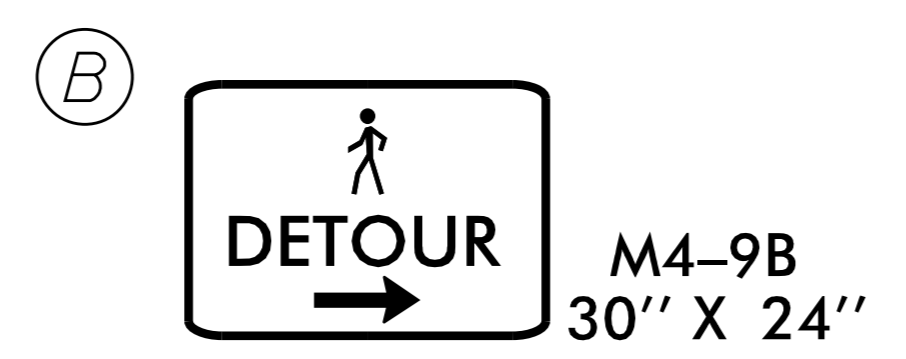
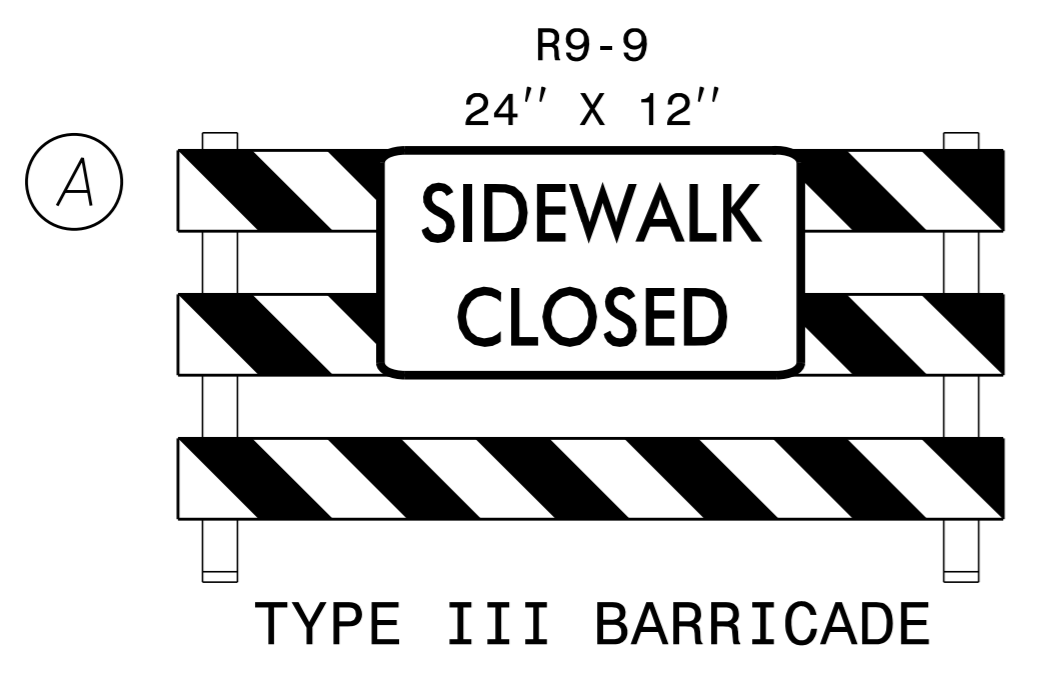
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PEDESTRIAN DETOUR FOR PHASE 1 DICKINSON AVENUE CONSTRUCTION



PEDESTRIAN DETOUR FOR PHASE 1 DICKINSON AVENUE CONSTRUCTION



**LEGEND**

- WORK ZONE
- DETOUR ROUTE
- BARRICADE
- STATIONARY SIGN

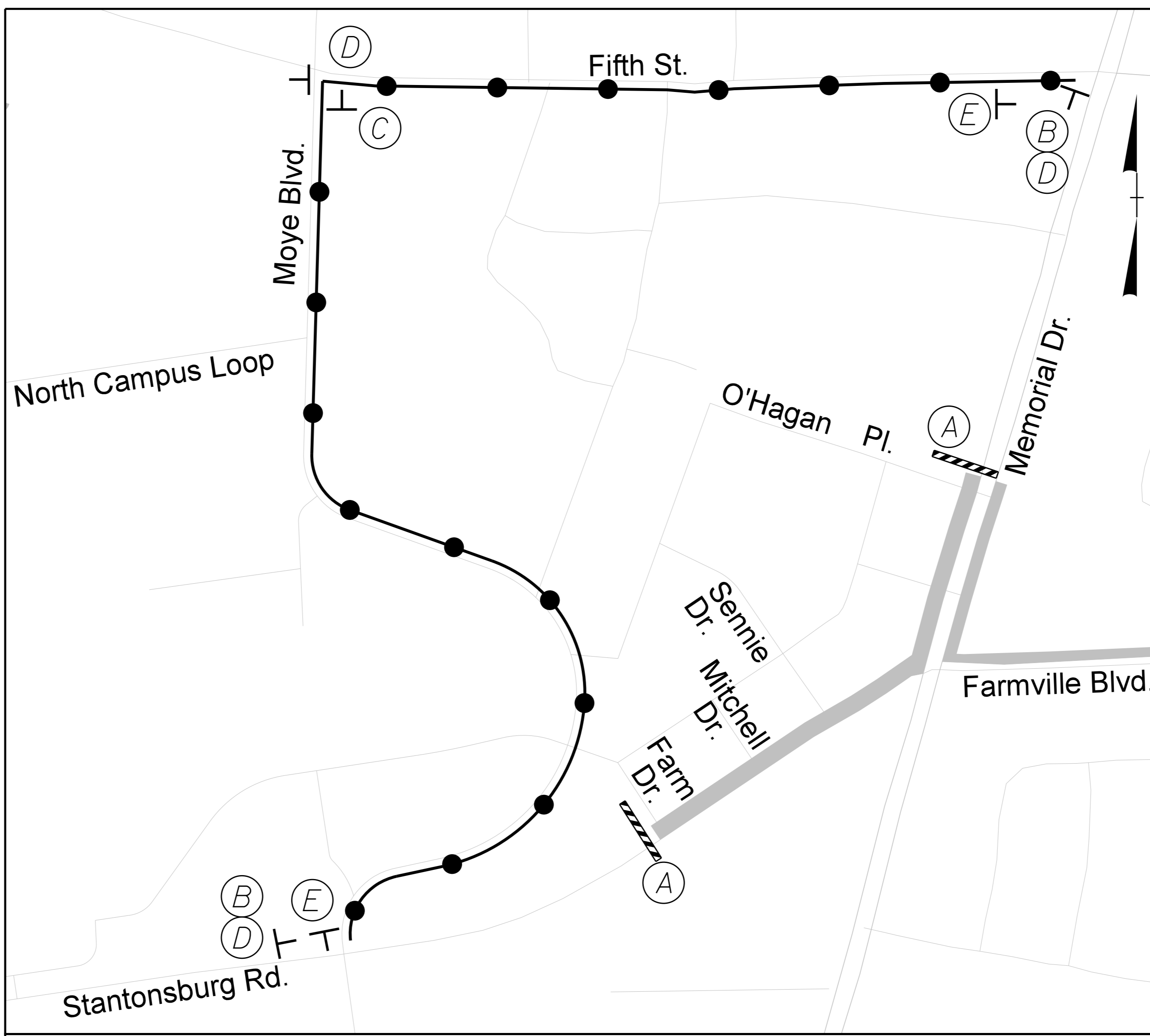
Kimley»Horn

APPROVED: Jason Pace DATE: 11/17/2014

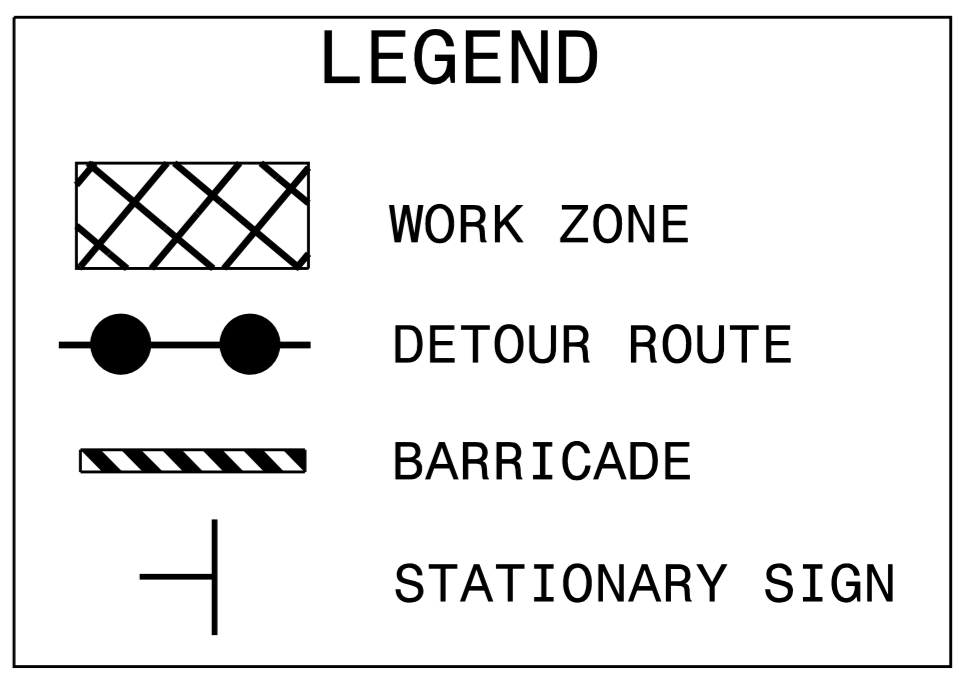
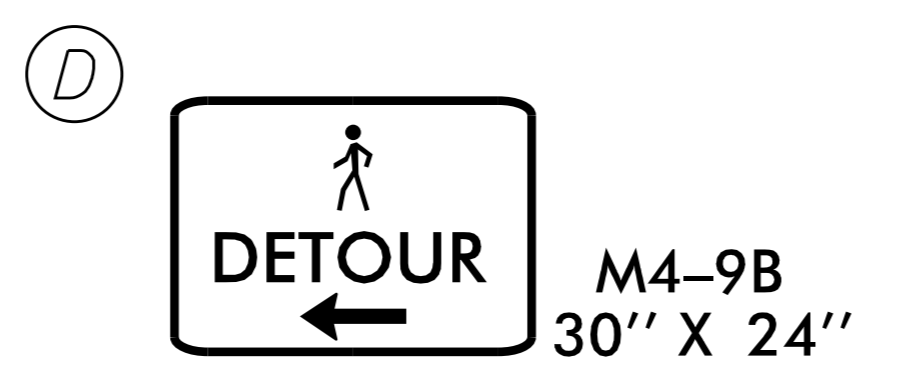
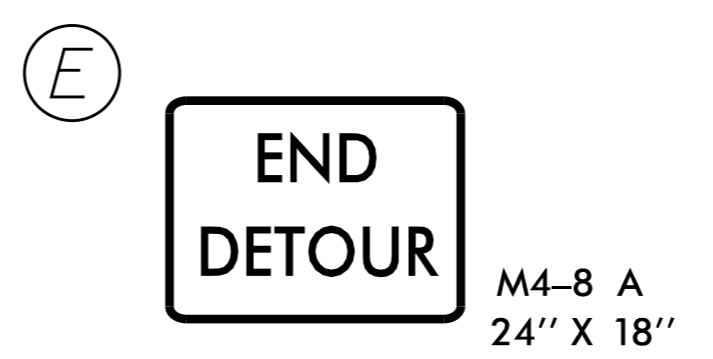
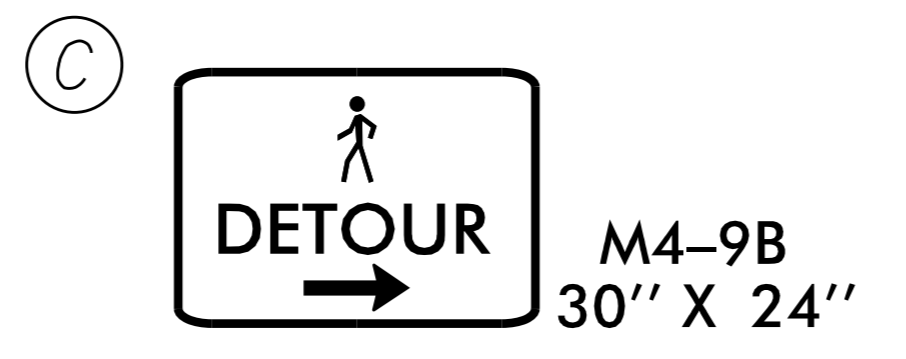
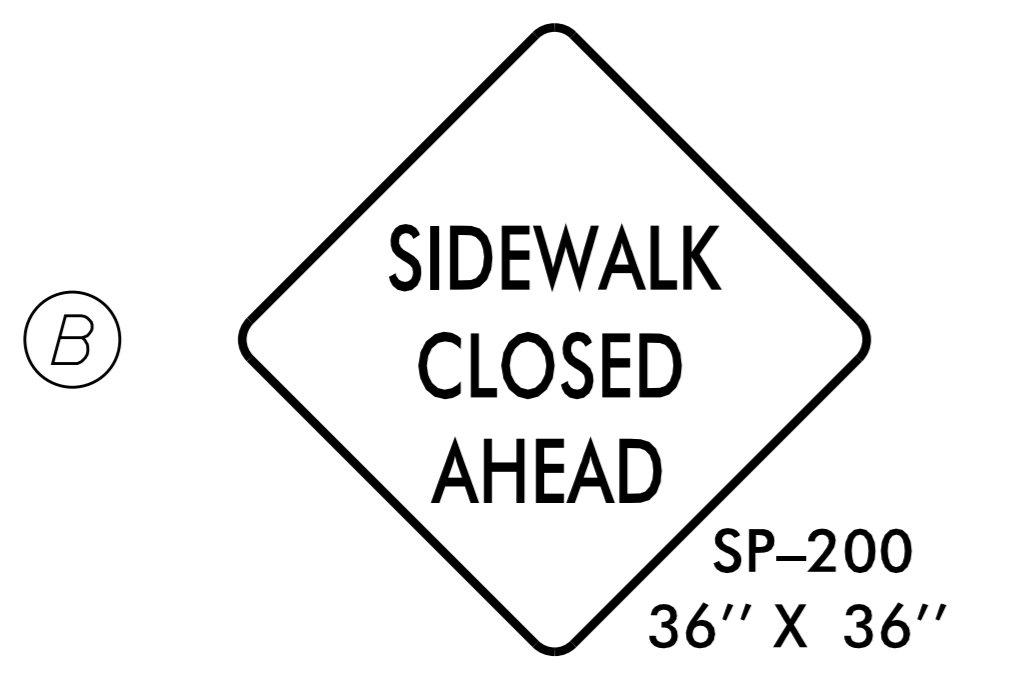
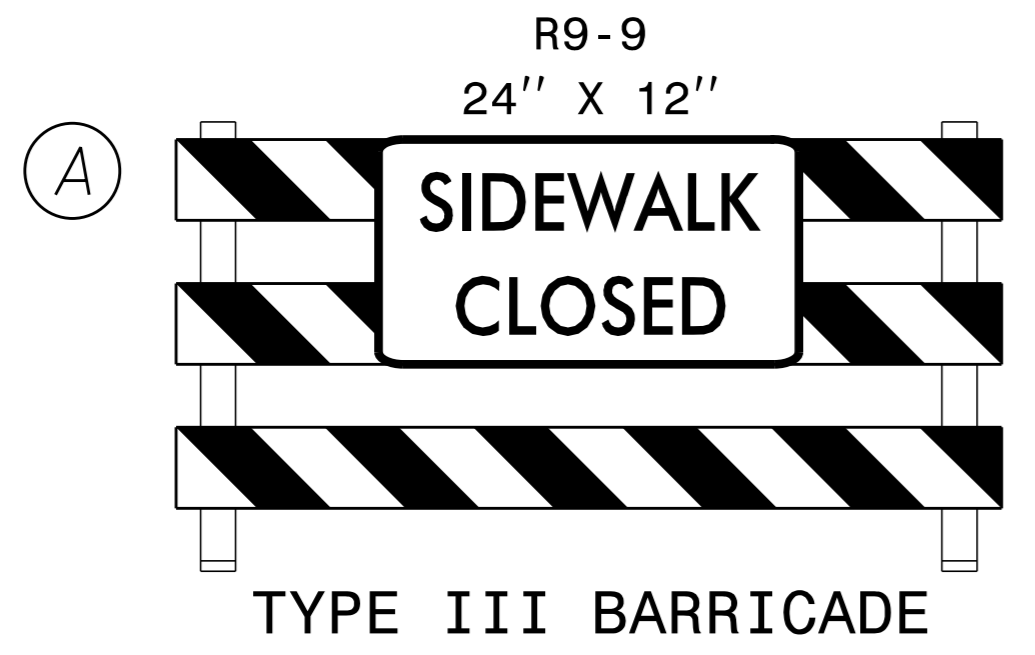
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

TRAFFIC CONTROL DETOUR SHEET

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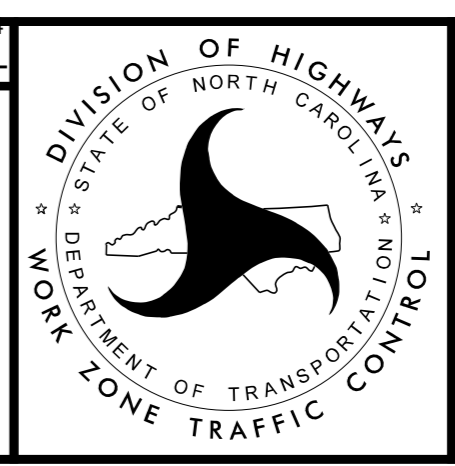


**PEDESTRIAN DETOUR FOR PHASE 2  
STANTONSBURG ROAD AND MEMORIAL DRIVE CONSTRUCTION**



**Kimley»Horn**

APPROVED: Jason Pace DATE: 11/17/2014



**TRAFFIC CONTROL  
DETOUR SHEET**

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SIGN NUMBER: SD TYPE: STATIONARY QUANTITY: SEE PLANS SIGN WIDTH: 3'-0" HEIGHT: 1'-6" TOTAL AREA: 4.5 Sq.Ft. BORDER TYPE: INSET RECESS: 0.5" WIDTH: 0.5" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Fluorescent Orange COPY COLOR: Black SYMBOl: [Table with columns X, Y, WID, HT] MAT'L: 0.080" (2.0 mm) ALUMINUM	DESIGN BY: J. CROSS PROJECT ID: ID CHECKED BY: D. SHINBARA DIV: DIV DATE: May 29, 2014
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------

BORDER R=3" TH=0.5" IN=0.5" Panel Style: Traffic Control.ssi M.U.T.C.D.: 2009 Edition

USE NOTES: 1,2  
 1. Legend and border shall be direct applied black non-reflective sheeting.  
 2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

Letter positions												
Letter spacings are to start of next letter												
												Series/Size Text Length
6.8	2.1	3.5	3.3	2.8	5	3.3	2.6	6.8				C 2000
												22.5

FILENAME: u3315\_SD-1 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: sd TYPE: STATIONARY QUANTITY: SEE PLANS SIGN WIDTH: 3'-6" HEIGHT: 2'-0" TOTAL AREA: 7.0 Sq.Ft. BORDER TYPE: INSET RECESS: 0.5" WIDTH: 0.5" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Fluorescent Orange COPY COLOR: Black SYMBOl: [Table with columns X, Y, WID, HT] MAT'L: 0.080" (2.0 mm) ALUMINUM	DESIGN BY: J. CROSS PROJECT ID: ID CHECKED BY: D. SHINBARA DIV: DIV DATE: May 29, 2014
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------

BORDER R=3" TH=0.5" IN=0.5" Panel Style: Traffic Control.ssi M.U.T.C.D.: 2009 Edition

USE NOTES: 1,2  
 1. Legend and border shall be direct applied black non-reflective sheeting.  
 2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

Letter positions												
Letter spacings are to start of next letter												
												Series/Size Text Length
6.7	3.8	1.7	3.8	3.7	1.8	3.7	3.6	3.9	2.8	6.7		C 2000
												28.7
16.1	3.5	3.8	2.6	16.1								C 2000
												9.9

FILENAME: u3315\_SD-1 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: SD TYPE: STATIONARY QUANTITY: SEE PLANS SIGN WIDTH: 4'-0" HEIGHT: 2'-0" TOTAL AREA: 8.0 Sq.Ft. BORDER TYPE: INSET RECESS: 0.5" WIDTH: 0.5" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Fluorescent Orange COPY COLOR: Black SYMBOl: [Table with columns X, Y, WID, HT] MAT'L: 0.080" (2.0 mm) ALUMINUM	DESIGN BY: D. SHINBARA PROJECT ID: ID CHECKED BY: D. SHINBARA DIV: DIV DATE: Jun 03, 2014
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BORDER R=3" TH=0.5" IN=0.5" Panel Style: Traffic Control.ssi M.U.T.C.D.: 2009 Edition

USE NOTES: 1,2  
 1. Legend and border shall be direct applied black non-reflective sheeting.  
 2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

Letter positions												
Letter spacings are to start of next letter												
												Series/Size Text Length
6.3	2.8	5	4.4	3.4	4.3	3.9	3.7	1.4	3.9	2.6	6.3	C 2000
												35.4
20.7	3.8	2.8	20.7									C 2000
												6.6

FILENAME: u3315\_SD-3 NORTH CAROLINA D.O.T. SIGN DETAIL

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# Kimley»Horn

APPROVED: <i>Jason Pace</i> DATE: 11/7/2014 		SPECIAL SIGN DESIGN
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SIGN NUMBER: SD BACKG COLOR: Fluorescent Orange  
 TYPE: STATIONARY COPY COLOR: Black  
 QUANTITY: SEE PLANS

SYMBOL	X	Y	WID	HT
AR_Type A-Ext	26.3	24.9	6	13.8

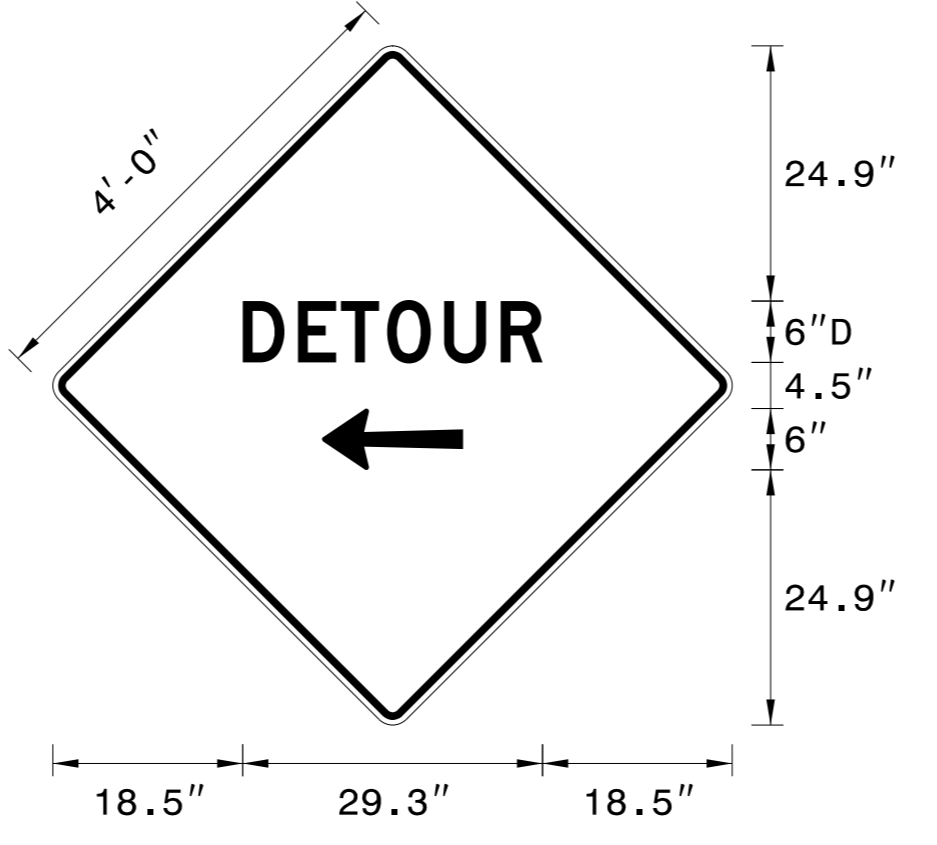
SIGN WIDTH: 5'-6"  
 HEIGHT: 5'-6"  
 TOTAL AREA: 30.6 Sq.Ft.

BORDER TYPE: INSET  
 RECESS: 0"  
 WIDTH: 0"  
 RADII: 0"

NO. Z BARS: 2  
 LENGTH: 58.3

MAT'L: 0.080" (2.0 mm) ALUMINUM

DESIGN BY: D. SHINBARA CHECKED BY: J. PACE  
 PROJECT ID: ID DIV: DIV DATE: Sep 03, 2014



USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS Panel Style: warning.ssi  
 M.U.T.C.D.: 2009 Edition

Letter spacings are to start of next letter

Letter spacings are to start of next letter									Series/Size
									Text Length
D	E	T	O	U	R				D 2000
18.5	5.4	4.2	4.5	5.6	5.5	4.1	18.5		29.3

FILENAME: u3315\_SD-2 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: SD BACKG COLOR: Fluorescent Orange  
 TYPE: STATIONARY COPY COLOR: Black  
 QUANTITY: SEE PLANS

SYMBOL	X	Y	WID	HT
AR_Type A-Ext	26.3	24.9	6	13.8

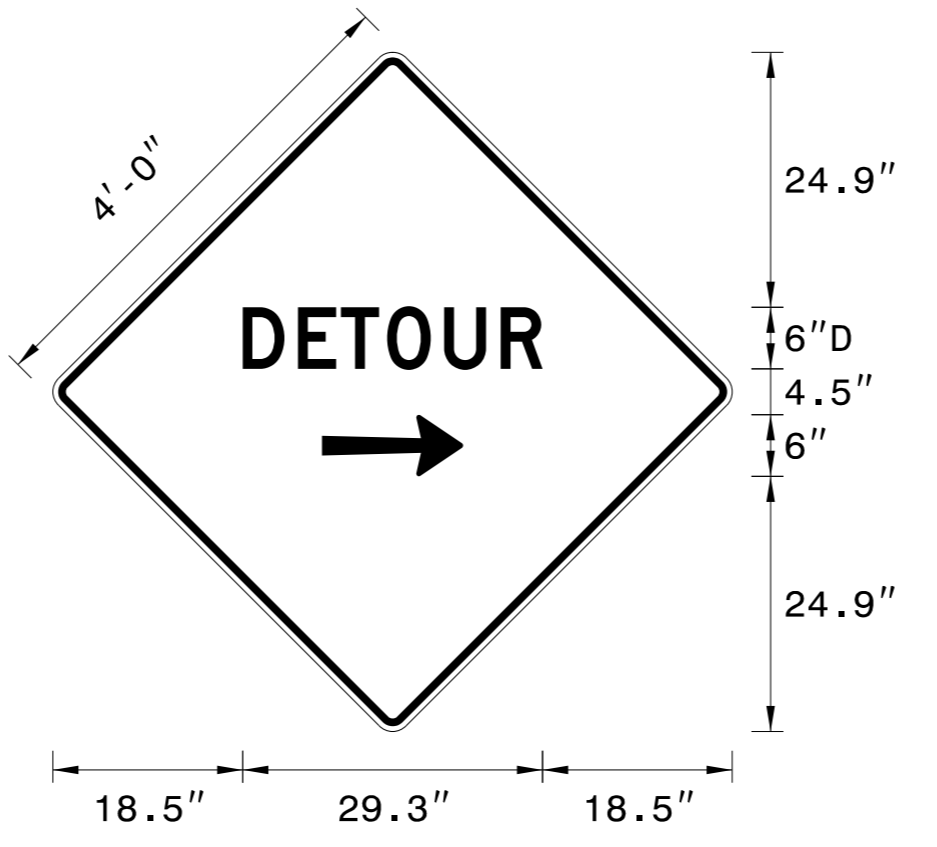
SIGN WIDTH: 5'-6"  
 HEIGHT: 5'-6"  
 TOTAL AREA: 30.6 Sq.Ft.

BORDER TYPE: INSET  
 RECESS: 0"  
 WIDTH: 0"  
 RADII: 0"

NO. Z BARS: 2  
 LENGTH: 58.3

MAT'L: 0.080" (2.0 mm) ALUMINUM

DESIGN BY: D. SHINBARA CHECKED BY: J. PACE  
 PROJECT ID: ID DIV: DIV DATE: Sep 03, 2014



USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS Panel Style: warning.ssi  
 M.U.T.C.D.: 2009 Edition

Letter spacings are to start of next letter

Letter spacings are to start of next letter									Series/Size
									Text Length
D	E	T	O	U	R				D 2000
18.5	5.4	4.2	4.5	5.6	5.5	4.1	18.5		29.3

FILENAME: u3315\_SD-2 NORTH CAROLINA D.O.T. SIGN DETAIL

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Kimley»Horn

APPROVED: <u>Jason Pace</u> DATE: <u>11/3/2014</u>		<p>SPECIAL SIGN DESIGN</p>