

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
R-2408B	TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
MACON COUNTY**

R-2408B

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
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
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2 AND TCP-2A	PROJECT NOTES
TCP-3 THRU TCP-3A	PHASING
TCP-3B	TEMPORARY PAVEMENT MARKING SCHEDULE
TCP-4 THRU TCP-8	PHASE 1 OVERVIEW DRAWINGS
TCP-9 THRU TCP-18	PHASE 1 DETAIL DRAWINGS
TCP-19	LEE TALLENT RD. ROAD CLOSURE AND DETOUR SIGNING
TCP-20 THRU TCP-24	PHASE 2 OVERVIEW DRAWINGS
TCP-25 THRU TCP-33	PHASE 2 DETAIL DRAWINGS
TCP-28A	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS SHEET
TCP-34 THRU TCP-38	PHASE 3 OVERVIEW DRAWINGS
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TCP-51 AND TCP-52	PHASE 3 ROAD CLOSURE SETUP AND PHASE 3 DETOUR SIGNING SETUP
TCP-53	AIRPORT RD. ROAD CLOSURE AND DETOUR SIGNING
TCP-54	WORK ZONE ADVANCE WARNING AND SPEED LIMIT REDUCTION SIGNING
SD-1	AIRPORT RD. AND LEE TALLENT RD. SIGN DESIGN
SD-2	PINE RIDGE RD. SIGN DESIGN

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
 - TYPE II BARRICADE
 - TYPE III BARRICADE
 - CONE
 - DRUM SKINNY DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - CRASH CUSHION
 - CHANGEABLE MESSAGE SIGN
 - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - POLICE
 - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
 - YELLOW/YELLOW PAVEMENT MARKER
 - CRYSTAL/RED PAVEMENT MARKER
 - PAVEMENT MARKING SYMBOLS

TIP PROJECT:

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msteelman AT WZTC237453

APPROVED: DATE:	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
	J. S. BOURNE, PE <u> </u> TRAFFIC CONTROL ENGINEER
	J. ISHAK, PE <u> </u> TRAFFIC CONTROL PROJECT ENGINEER
	J. L. PORTANOVA, PE <u> </u> TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	M. H. STEELMAN <u> </u> TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

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 UNDESIRE 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
NC 28	MONDAY THRU FRIDAY
[FROM BEGINNING OF PROJECT TO -L- STA. 114+00]	FROM 6:00 A.M. TO 9:00 A.M.

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

ROAD NAME
NC 28
SR 1434 (AIRPORT RD.)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 9:00 A.M. DECEMBER 31st TO 6:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 A.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 9:00 A.M. THURSDAY AND 6:00 A.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 9:00 A.M. FRIDAY TO 6:00 A.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 9:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 9:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 9:00 A.M. FRIDAY AND 6:00 A.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 9:00 A.M. TUESDAY TO 6:00 A.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 9:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- FOR LEAF SEASON, FROM 9:00 A.M. ON OCTOBER 1 TO 6:00 AM ON OCTOBER 31.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 28	FOR LEAF SEASON FROM 6:00 A.M. ON OCTOBER 1
SR 1434 (AIRPORT RD.)	TO 9:00 A.M. ON OCTOBER 31

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
NC 28	MONDAY THRU FRIDAY FROM 6:00 A.M TO 9:00 A.M	FOR MORE THAN 15 MINUTES FOR TRAFFIC SHIFTS

E) 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

F) 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.

G) 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.

H) 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.

I) 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.

J) 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.

K) DO NOT INSTALL MORE THAN 1000 FT OF LANE CLOSURE ON NC 28 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

L) DO NOT INSTALL MORE THAN 2 SIMULTANEOUS LANE CLOSURES, IN ANY ONE DIRECTION, ON NC 28.

M) PROVIDE A MINIMUM OF 1/2 MILE BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

N) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

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APPROVED: _____	DATE: _____	GENERAL NOTES	
	SCALE: NONE		REVISIONS
	DATE: NOV. 08		
	DWG. BY: MHS		
	DESIGN BY: MHS		
REVIEWED BY: JLP			

PHASING

PROJ. REFERENCE NO. R-2408B	SHEET NO. TCP-3
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NOTES:

1. USE ROADWAY STANDARD 1101.02 SHEET 1 OF 9 FOR FLAGGING OPERATIONS.
2. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES UNLESS OTHERWISE NOTED IN PHASING.
3. MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION.
4. RETURN TRAFFIC TO EXISTING TRAFFIC PATTERN BY END OF EACH WORK DAY UNLESS OTHERWISE NOTED IN PHASING.
5. REPLACE EXISTING PAVEMENT MARKINGS COVERED OR DAMAGED BY CONSTRUCTION ACTIVITY WITH TEMPORARY PAVEMENT MARKING AT END OF EACH WORK DAY.
6. CONSTRUCT ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT PONDING WILL NOT OCCUR IN TRAVEL LANE.
7. CONSTRUCT ALL ROADS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE UNLESS OTHERWISE STATED IN PHASING.
8. WHEN NECESSARY, RELOCATE ANY WORK ZONE SIGNING DURING TRAFFIC SHIFTS AS DIRECTED BY THE ENGINEER.
9. MINIMUM ALLOWABLE SLOPE BETWEEN TRAFFIC AND CONSTRUCTION IS 1:1. HOWEVER, CONTRACTOR IS ENCOURAGED TO USE FLATTER SLOPES WHERE IT IS ATTAINABLE. 1:1 SLOPES SHOULD BE USED AS A LAST OPTION.
10. DURING TRAFFIC PHASING, SUPPLEMENTAL DRAINAGE PIPE, DRAINAGE STRUCTURES, GRADING, AND PAVING MAY BE REQUIRED TO MAINTAIN EXISTING DRAINAGE PATTERNS, DRIVEWAY CONNECTIONS, ECT., AND TO PROTECT THE TRAVELLING PUBLIC. SUCH ITEMS WILL BE INSTALLED AS DIRECTED BY THE ENGINEER, AND WILL BE COMPENSATED AT THE EXISTING CONTRACT LINE ITEM PRICES.

PHASE 1

STEP 1:

INSTALL ADVANCE WARNING AND WORK ZONE SPEED REDUCTION SIGNS ACCORDING TO TCP-54.

INSTALL AND COVER DETOUR SIGNS AND ROAD CLOSURE SIGNS FOR -Y6- (LEE TALENT ROAD) CLOSURE (SEE TCP-19).

STEP 2:

USING FLAGGERS, COMPLETE THE MAINTENANCE REPAIR OF EXISTING NC 28 THROUGHOUT PROJECT AS DIRECTED BY THE ENGINEER (SEE ROADWAY PLAN SHEET 2).

STEP 3:

-AWAY FROM TRAFFIC AND USING FLAGGERS, BEGIN THE FOLLOWING CONSTRUCTION (SEE TCP-4 TO TCP-18):

- * PROPOSED DRAINAGE WORK, INCLUDING STAGE I CONSPAN AND TRENCHLESS INSTALLATION OF 36" PIPE
 - L- STA. 91+05+/-, 48" PIPE -L- STA. 109+65+/-, 36" PIPE -L- STA. 124+08+/-, AND 36" PIPE
 - L- STA 132+90+/-, 36" PIPES -L- STA. 151+15+/- (SEE ROADWAY PLANS FOR PIPE LOCATIONS AND EROSION CONTROL PLANS FOR HYDRAULIC SEQUENCING OF CONSPAN).
- * SR 1468 (HUGHES LANE)
- * TEMPORARY PAVEMENT -L- STA. 59+50+/- TO STA. 67+57+/-
- * -Y3- (TEMPORARY TIE TO EXISTING NC 28)
- * -L- STA. 68+05+/- TO STA. 70+85+/- (RIGHT SIDE UP TO EDGE AND ELEVATION OF EXISTING NC 28).
- * -DET1REV-
- * -LTEMP-
- * -DET2REV- (INCLUDING PAVED PAD FOR PORTABLE CONCRETE BARRIER [PCB])
- * -Y7TIE-
- * -L- STA. 111+38+/- TO STA. 113+61+/- (PAVEMENT CONSTRUCTED TO EDGE AND ELEVATION OF -DET2REV- FOR PHASE 3 TRAFFIC).
- * -DET3 REV-
- * -Y8-
- * -DET6-

-USING FLAGGERS, COMPLETE THE FOLLOWING CONSTRUCTION (SEE TCP 10 AND 10A):

- * TEMPORARY PAVEMENT -L- STA. 75+32+/- TO 78+18+/- (LEFT SIDE)
- * -Y4DET- (UP THROUGH FINAL LAYER OF SURFACE COURSE)
- * -DET1REV- STA. 17+47+/- TO STA. 20+00+/-
- * TEMPORARY -Y4- ACCESS -L- STA. 80+50+/- (TO BE USED FOR PINE RIDGE RD. TRAFFIC ACCESS TO NC 28)

-UNCOVER DETOUR SIGNS, INSTALL BARRICADES, AND CLOSE -Y6- (LEE TALENT RD.) TO TRAFFIC AND BEGIN -Y6- CONSTRUCTION, INCLUDING PROPOSED DRAINAGE. (SEE TCP-11 AND TCP-19)

-USING FLAGGERS, MAY BEGIN WIDENING, MILLING, AND/OR WEDGING UNDER TRAFFIC IN THE FOLLOWING LOCATIONS (SEE TCP-4 TO TCP-18 AND ROADWAY PLANS):

- * -L- STA. 56+50+/- TO STA. 59+29+/-
- * -L- STA. 59+29+/- TO STA. 73+50+/- (LEFT SIDE WIDENING UP TO EXISTING EDGE AND ELEVATION OF NC 28).
- * -Y4- (PINE RIDGE RD.)
- * -Y5- (WINDY GAP RD.)
- * -Y7- (AIRPORT RD.)
- * -Y9- (RIVERBEND RD.)
- * -L- STA. 162+19+/- TO STA. 165+27+/- (PAVEMENT CONSTRUCTED UP TO EDGE AND ELEVATION OF EXISTING NC 28).
- * -L- STA. 162+19+/- TO STA. 165+27+/- (RIGHT SIDE WIDENING).
- * -L- STA. 181+00+/- TO END OF PROJECT

WORK IN A CONTINUOUS MANNER TO COMPLETE PHASE 1, STEP 4 WITHIN SIXTEEN (16) CONSECUTIVE HOURS BETWEEN SUNDAY AT MIDNIGHT AND THURSDAY . SEE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 4:

USING FLAGGERS, COMPLETE UNDERCUT EXCAVATION AT -L- STA. 83+00+/- TO STA. 83+95+/- AND PLACE BACK SATISFACTORY FILL MATERIAL TO SAFE UP SHOULDER AS DIRECTED BY THE ENGINEER (SEE ROADWAY PLANS AND TCP-4 AND TCP-11).

STEP 5:

-USING FLAGGERS, TIE-IN -Y4DET- TO PINE RIDGE ROAD, INSTALL TEMPORARY MARKINGS, AND SHIFT TRAFFIC ON -Y4DET-. INSTALL DIRECTIONAL SIGNS ON NC 28 FOR PINE RIDGE RD. TRAFFIC AND OPEN TEMPORARY ACCESS FOR PINE RIDGE RD. TO ACCESS NC 28 AT -L- STA. 80+50+/- AS SHOWN ON TCP-10A.

-USING FLAGGERS, INSTALL TEMPORARY PAVEMENT MARKINGS AND SHIFT NC 28 TRAFFIC ONTO TEMPORARY PAVEMENT FROM -L- STA. 75+32+/- TO STA. 78+18+/- (SEE TCP-10A) AND CONSTRUCT -DET1REV FROM STA. 15+19+/- TO STA. 16+70+/- AND FROM -DET1REV- STA. 17+10+/- TO STA. 17+47+/-.

STEP 6:

AWAY FROM TRAFFIC AND USING FLAGGERS, COMPLETE THE FOLLOWING CONSTRUCTION IN PREPARATION FOR PHASE II TRAFFIC PATTERN AS SHOWN ON SHEETS TCP-4 TO TCP-18:

- * TEMPORARY PAVEMENT -L- STA. 59+50+/- TO STA. 67+57+/-
- * -Y3-, WITH TEMPORARY TIE TO EXISTING NC 28
- * -L- STA. 68+05+/- TO STA. 70+85+/- UP TO EXISTING EDGE AND ELEVATION OF NC 28
- * -DET1REV-, INCLUDING TEMPORARY GUARDRAIL (SEE ROADWAY PLANS)
- * -DET3REV-, INCLUDING AS MUCH OF TEMPORARY PAVEMENT MARKING AS POSSIBLE
- * -DET6-

PHASE 2

STEP 1:

-PERFORM THE WORK FOR (A) AND (B) SIMULTANEOUSLY IN A CONTINUOUS MANNER:

A) USING FLAGGERS, REMOVE EXISTING CONFLICTING PAVEMENT MARKING, INSTALL TEMPORARY PAVEMENT MARKING, AND SHIFT TRAFFIC TO TEMPORARY PAVEMENT -L- STA. 59+50+/- TO STA. 68+28+/- AS SHOWN ON TCP-20 AND TCP-25.

B) USING FLAGGERS, TIE-IN -Y3- TO EXISTING RIVERBEND RD. AND TEMPORARY TIE TO NC 28, INSTALL TEMPORARY PAVEMENT MARKING, AND SHIFT TRAFFIC TO -Y3- IN A TEMPORARY TRAFFIC PATTERN (SEE TCP-20 AND TCP-25).

-USING FLAGGERS, WORK CONTINUOUSLY TO SHIFT TRAFFIC TO -DET1REV- AND PLACE TEMPORARY PAVEMENT MARKINGS AS FOLLOWS (SEE TCP-20, TCP-21, TCP-26, AND TCP-27):

1. PLACE NC 28 TRAFFIC IN SOUTHBOUND LANE OF EXISTING NC 28 IN A 1-LANE, 2-WAY PATTERN.
2. TIE-IN NORTHBOUND LANE OF -DET1REV- TO EXISTING NC 28.
3. SHIFT NC 28 TRAFFIC TO THE NORTHBOUND LANE OF -DET1REV- IN A 1-LANE, 2-WAY TRAFFIC PATTERN.
4. REMOVE DIRECTIONAL SIGNS INSTALLED ON NC 28 FOR PINE RIDGE RD. TRAFFIC IN PHASE I.
5. TIE-IN SOUTHBOUND LANE OF -DET1REV- TO EXISTING NC 28.
6. OPEN -DET1REV- TO TEMPORARY 2-LANE, 2-WAY TRAFFIC PATTERN.

-USING FLAGGERS, WORK CONTINUOUSLY TO SHIFT TRAFFIC TO -DET3REV- AND PLACE TEMPORARY PAVEMENT MARKINGS AS FOLLOWS (SEE TCP-21 TO TCP-23, AND TCP-28 TO TCP-31):

1. PLACE NC 28 TRAFFIC IN SOUTHBOUND LANE OF EXISTING NC 28 IN A 1-LANE, 2-WAY TRAFFIC PATTERN AND TIE-IN NORTHBOUND LANE OF -DET3REV- TO EXISTING NC 28.
2. TIE-IN -Y9- TEMPORARILY TO -DET3REV-, RELOCATE STOP SIGN FOR -Y9- (RIVERBEND RD.), AND INSTALL ADVANCE WARNING SIGN ON RIVERBEND RD. TO INFORM MOTORIST OF CHANGE IN STOP LOCATION.
3. SHIFT NC 28 TRAFFIC TO THE NORTHBOUND LANE OF -DET3REV- IN A 1-LANE, 2-WAY PATTERN AND TIE-IN SOUTHBOUND LANE OF -DET3REV-.
4. TIE-IN IOTLA CHURCH RD. TO -DET3REV-, RELOCATE STOP SIGN, AND PLACE IOTLA CHURCH RD. TRAFFIC INTO A TEMPORARY 2-LANE, 2-WAY TRAFFIC PATTERN.
5. OPEN *DET3REV- TO A TEMPORARY 2-LANE, 2-WAY TRAFFIC PATTERN.

-USING FLAGGERS, TIE-IN -DET6- TO EXISTING NC 28, INSTALL TEMPORARY PAVEMENT MARKINGS, AND SHIFT TRAFFIC TO -DET6- IN A TEMPORARY 2-LANE, 2-WAY TRAFFIC PATTERN AS SHOWN ON SHEETS TCP-23 AND TCP-24, AND TCP-32 AND TCP-33.

STEP 2:

-USING FLAGGERS, INSTALL TEMPORARY GUARDRAIL ON -DET3REV- AS SHOWN ON SHEET TCP-21, TCP-22, TCP-28, AND ROADWAY PLANS.

-AWAY FROM TRAFFIC AND USING FLAGGERS, BEGIN INSTALLATION OF PROPOSED SIGNAL AT -Y3- (RIVERBEND RD.) AND NC 28.

ICT

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STEP 3:
AWAY FROM TRAFFIC AND USING FLAGGERS, CONSTRUCT AND COMPLETE THE FOLLOWING IN PREPARATION FOR PHASE 3 TRAFFIC PATTERN AS SHOWN ON SHEETS TCP-20 TO TCP-33:

- * -L- STA. 61+05+/- TO STA. 67+00+/- (LEFT)
- * -L- STA. 70+85+/- TO STA. 85+67+/- (LEFT), INCLUDING AS MUCH OF RIGHT SIDE TEMPORARY SLOPES WITHOUT INTERFERING WITH EXISTING TRAFFIC.

NOTE: THE ACCESS POINT FOR PINE RIDGE RD. IN PHASE 1 WILL BE USED FOR ACCESS TO PROPERTY ON LEFT SIDE DURING PHASE 2. DURING THIS STEP, THE ACCESS POINT MAY BE RELOCATED TO MATCH PROPOSED GRADES. (SEE SHEETS TCP-20 AND TCP-26).

- * -Y5- (WINDY GAP RD.) STA. 11+00+/- TO STA. 14+00+/-, INCLUDING PROPOSED GUARDRAIL WITH TEMPORARY ANCHOR UNIT AS SHOWN ON TCP-27.
- * -Y6- (LEE TALENT ROAD) STA. 10+44+/- TO STA. 14+50+/-, INCLUDING PROPOSED GUARDRAIL WITH TEMPORARY ANCHOR UNITS AS SHOWN ON TCP-27.
- * -LTEMP-, EXCLUDING AREAS THAT INTERFERE WITH EXISTING TRAFFIC PATTERN.
- * STAGE I OF CONSPAN AND -DET2REV- USING TEMPORARY SHORING, INCLUDING PAVED PAD FOR PCB (SEE TCP-28, TCP-28A, AND TCP-28B).
- * -Y7TIE-
- * -L- STA. 111+39+/- TO -L- STA. 113+61+/- (CONSTRUCT PAVEMENT TO -DET2REV- GRADE).
- * -L- STA. 113+61+/- TO STA. 152+56+/- (LEFT)
- * -Y8- (IOTLA CHURCH RD.)
- * -L- STA. 152+87+/- TO STA. 159+00+/- (LEFT)
- * TEMPORARY TIE-IN -L- STA. 159+00+/- TO STA. 162+19+/- (AS MUCH AS POSSIBLE)
- * -L- STA. 162+19+/- TO STA. 165+27+/- (LEFT) [-L- PAVEMENT CONSTRUCTED TO PROPOSED EDGE OF PAVEMENT AT EXISTING ELEVATION AND SLOPE OF NC 28 TO BE UTILIZED BY PHASE 3 TRAFFIC].
- * TEMPORARY TIE-IN -L- STA. 165+27* TO STA. 168+50* (AS MUCH AS POSSIBLE)
- * -L- STA. 168+50+/- TO STA. 174+50+/- (LEFT)
- * TEMPORARY TIE-IN -L- STA. 174+50+/- TO STA. 179+80+/- (AS MUCH AS POSSIBLE)

STEP 4:
-AWAY FROM TRAFFIC, INSTALL PORTABLE CONCRETE BARRIER (PCB) AS MUCH AS POSSIBLE ON -DET2REV- TO NOT INTERFERE WITH -Y7- (AIRPORT RD.) TRAFFIC (SEE TCP-42 AND TCP-43 FOR UPCOMING PHASE 3 TRAFFIC PATTERN).

-AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AS MUCH AS POSSIBLE NEEDED FOR PHASE III TRAFFIC PATTERN (SEE TCP-34 TO TCP-50).

-INSTALL AND COVER ROAD CLOSURE SIGNS AND DETOUR SIGNS FOR PHASE III, STEP 1 ROAD CLOSURE AS SHOWN ON TCP-51 AND TCP-52.

-INSTALL AND ACTIVATE CHANGEABLE MESSAGE SIGNS (CMS) USED TO NOTIFY PUBLIC FIVE (5) DAYS IN ADVANCE OF NC 28 ROAD CLOSURE (SEE TCP-51 FOR MESSAGES AND PLACEMENT).

PHASE 3

WORK IN A CONTINUOUS MANNER TO COMPLETE PHASE 3, STEP 1 AND 2 WITHIN FIFTY-FOUR (54) CONSECUTIVE HOURS STARTING FRIDAY 12:00 A.M. (MIDNIGHT) TO THE FOLLOWING MONDAY AT 6:00 AM AND OPEN ALL ROADS TO PHASE 3 TEMPORARY TRAFFIC PATTERN. SEE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 1:
A)
UNCOVER ROAD CLOSURE SIGNS AND DETOUR SIGNS, INSTALL BARRICADES, MODIFY MESSAGES ON CMSs, AND USING LAW ENFORCEMENT, CLOSE NC 28 AND INTERSECTING -Y- LINES TO TRAFFIC BETWEEN -L- STA. 82+75+/- AND STA. 159+00+/-.

B)
* USING FLAGGERS, CONSTRUCT TEMPORARY TIE-IN FROM -L- STA. 61+05+/- TO STA. 62+50+/- (SEE TCP-34 AND TCP-39).
* USING FLAGGERS, CONSTRUCT TEMPORARY TIE-IN FROM -L- STA. 65+00+/- TO STA. 67+00+/- (SEE TCP-34 AND TCP-39).
* USING FLAGGERS, CONSTRUCT TEMPORARY TIE-IN FROM -L- STA. 70+85+/- TO STA. 73+50+/- (SEE TCP-34 AND TCP-40).
* USING FLAGGERS, CONSTRUCT RIGHT SIDE TEMPORARY SLOPES FROM -L- STA. 71+00+/- TO STA. 85+00+/- (2:1 MAX. SLOPES) (SEE TCP-34, TCP-40, AND TCP-41).
* INSTALL DIRECTIONAL SIGNS ON NC 28 TO INFORM TRAFFIC OF ACCESS POINT FOR PINE RIDGE RD. (SEE TCP-40).
* USING FLAGGERS, CONSTRUCT TEMPORARY TIE-IN FORM -L- STA. 83+50+/- TO -LTEMP- (ACROSS EXISTING NC 28 PAVEMENT) (SEE TCP-34, TCP-35, AND TCP-41).
* AWAY FROM TRAFFIC, CONSTRUCT TEMPORARY TIE-IN FOR -Y5- (WINDY GAP RD.) TO -LTEMP- AND INSTALL 36" PIPE ON -Y5- (WINDY GAP RD.) (SEE TCP-35 AND TCP-41).
* AWAY FROM TRAFFIC, CONSTRUCT TEMPORARY TIE-IN FOR -Y6- (LEE TALENT RD.) TO -LTEMP- (SEE TCP-35 AND TCP-41).
* AWAY FROM TRAFFIC, CONSTRUCT TIE-IN OF -LTEMP- ACROSS EXISTING NC 28 AT STA. 95+00+/- (SEE TCP-35 AND TCP-41).
* INSTALL REMAINING PCB AND TEMPORARY CRASH CUSHIONS ON -DET2REV- (SEE TCP-35, TCP-42, AND TCP-43).
NOTE: LOCAL NC 28 TRAFFIC MAY NEED TO USE (-Y7-) AIRPORT RD. TO GET AROUND NC 28 CLOSURE.
* USING FLAGGERS, ADJUST PAVEMENT MARKINGS AT INTERSECTION OF -Y7- (AIRPORT RD.) AND -DET2REV-, RELOCATE STOP SIGN FOR -Y7- (AIRPORT RD.), AND INSTALL ADVANCE WARNING SIGN ON AIRPORT RD. TO INFORM MOTORIST OF CHANGE IN STOP LOCATION. (SEE TCP-35 AND TCP-43).
* AWAY FROM TRAFFIC, CONSTRUCT -L- FROM STA. 152+57+/- TO STA. 152+87+/- (SEE TCP-37 AND TCP-46).
* AWAY FROM TRAFFIC, CONSTRUCT TIE-IN OF -Y8- TO IOTLA CHURCH ROAD. (SEE TCP-37 AND TCP-46).
* AWAY FROM TRAFFIC, CONSTRUCT TEMPORARY TIE-IN FOR Y9- (RIVERBEND RD.) TO LEFT SIDE OF PROPOSED -L- AND REMOVE ADVANCE WARNING SIGNS INSTALLED IN PHASE II ON RIVERBEND RD. TO INFORM MOTORIST OF STOP LOCATION (SEE TCP-37 AND TCP-46).
* USING FLAGGERS, CONSTRUCT TEMPORARY TIE-IN FOR -L- STA. 159+00+/- TO STA. 162+19+/- (SEE TCP-37, TCP-46, AND TCP-47).
* USING FLAGGERS, CONSTRUCT TEMPORARY TIE-IN FOR -L- STA. 165+27+/- TO STA. 168+50+/- (SEE TCP-37 AND TCP-47).
* PLACE TEMPORARY PAVEMENT MARKING FOR PHASE III TEMPORARY TRAFFIC PATTERN.
NOTE: UTILIZE PROPOSED SHOULDER FOR TRAFFIC IN AREAS WHERE TRAFFIC IS SHIFTED TO PROPOSED LEFT SIDE.

ICT

STEP 2:
REMOVE BARRICADES, DEACTIVATE CMSs, COVER ROAD CLOSURE AND DETOUR SIGNING, AND OPEN ALL ROADS TO TRAFFIC IN PHASE 3 TEMPORARY TRAFFIC PATTERN SHOWN ON TCP-34 TO TCP-50.

STEP 3:
-REMOVE CMSs, ROAD CLOSURE SIGNS, AND DETOUR SIGNS NO LONGER NEEDED.

-AWAY FROM TRAFFIC AND USING FLAGGERS, BEGIN CONSTRUCTION OF FOLLOWING: (SEE TCP-34 TO TCP-50).
* REMOVE EXISTING PAVEMENT NO LONGER NEEDED FOR TRAFFIC.
* RIGHT SIDE OF PROPOSED -L-.
* -Y4- (PINE RIDGE RD.).
* WEDGING ON -LTEMP- FROM STA. 85+00+/- TO STA. 97+25+/-.

NOTE: INSTALL AS MUCH OF PROPOSED GUARDRAIL ALONG -LTEMP- WITHOUT INTERFERING WITH TRAFFIC ON -DET2REV-

-AWAY FROM TRAFFIC, COMPLETE CONSPAN STAGE II AND RIGHT SIDE -L- STA. 100+00+/- TO STA. 116+61+/- (SEE TCP-35 AND TCP-43).

-INSTALL AND COVER DETOUR AND ROAD CLOSURE SIGNS TO BE USED IN STEP 4.

WORK IN A CONTINUOUS MANNER TO COMPLETE PHASE 3, STEP 4 THRU 7 WITHIN TWENTY-FOUR (24) CONSECUTIVE HOURS BETWEEN FRIDAY 12:00 A.M. (MIDNIGHT) TO THE FOLLOWING MONDAY AT 6:00 AM AND OPEN AIRPORT RD TO TEMPORARY TRAFFIC PATTERN ON TCP-49 AND TCP-50. SEE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 4:
INSTALL BARRICADES, UNCOVER DETOUR AND ROAD CLOSURE SIGNS, AND CLOSE AIRPORT RD. TO TRAFFIC (SEE TCP-53).

STEP 5:
USING FLAGGERS, TIE-IN RIGHT SIDE -L- AT STA. 100+00+/- AND -L- STA. 116+61+/-, INSTALL TEMPORARY PAVEMENT MARKINGS, AND SHIFT NC 28 TRAFFIC TO RIGHT SIDE BETWEEN -L- STA. 100+00+/- TO -L- STA. 116+61+/- IN A TEMPORARY 2-LANE, 2-WAY TRAFFIC PATTERN USING PROPOSED SHOULDERS (SEE TCP-49 AND TCP-50).

STEP 6:
AWAY FROM TRAFFIC, REMOVE ENOUGH PCB AND TEMPORARY CRASH CUSHION TO CONSTRUCT -Y7- TIE-IN.

REMOVE ADVANCE WARNING SIGNS INSTALLED ON AIRPORT ROAD IN PHASE III, STEP 1 FOR STOP LOCATION.

STEP 7:
REMOVE BARRICADES, COVER DETOUR SIGNS, AND OPEN AIRPORT RD. TO TRAFFIC (SEE TCP-50).

STEP 8:
-AWAY FROM TRAFFIC AND USING FLAGGERS, BEGIN LEFT SIDE -L- STA. 100+00+/- AND STA. 113+61+/-, INCLUDING PROPOSED GUARDRAIL (SEE TCP-49 AND TCP-50).

-USING FLAGGERS, COMPLETE LEFT SIDE -Y4- (PINE RIDGE RD.), INSTALL TEMPORARY PAVEMENT MARKING, AND SHIFT TRAFFIC IN TEMPORARY TRAFFIC PATTERN TO COMPLETE -Y4- (PINE RIDGE RD.) (SEE TCP-40A).

STEP 9:
AWAY FROM TRAFFIC AND USING FLAGGERS, COMPLETE CONSTRUCTION OF THE FOLLOWING:
* PCB AND TEMPORARY CRASH CUSHION REMOVAL ON -DET2REV-
* PAVEMENT REMOVAL
* PROPOSED SIGNAL AT -Y7- (AIRPORT RD.) AND NC 28
* PROPOSED DRAINAGE
* PROPOSED GUARDRAIL IN ALL AREAS
* SR 1468 (HUGHES LANE)
* -Y3-
* -Y4- (PINE RIDGE RD.)
* -Y5- (WINDY GAP RD.)
* -Y6- (LEE TALENT) TIE-IN
* -Y9- (RIVERBEND RD.)
* -L-
NOTE: COMPLETE FINAL PAVEMENT STRUCTURE USING MILLING AND/OR WEDGING AS DIRECTED BY THE ENGINEER (SEE ROADWAY PLANS)

PHASE 4

STEP 1:
USING FLAGGERS, PLACE THE FINAL SURFACE AND FINAL PAVEMENT MARKING, SHIFT TRAFFIC TO FINAL TRAFFIC PATTERN, AND ACTIVATE PROPOSED SIGNALS.

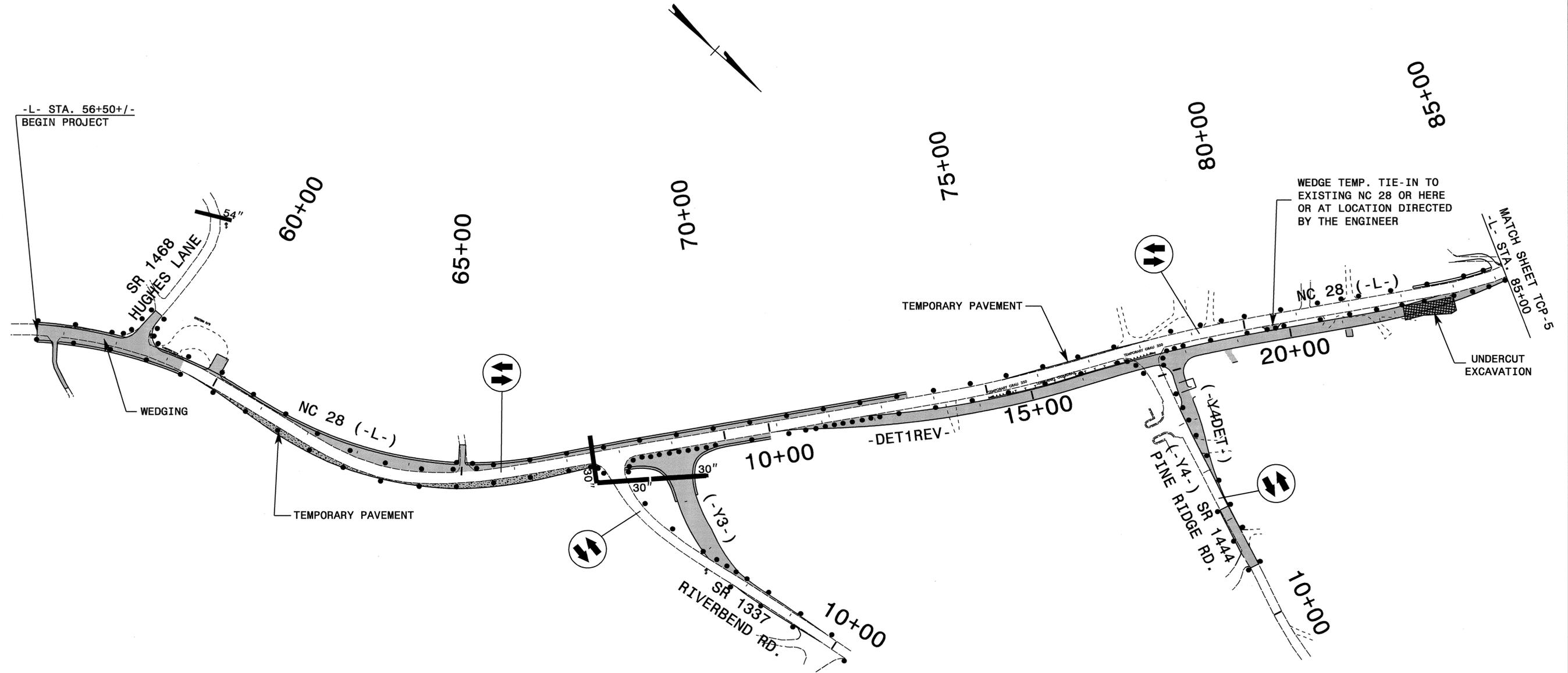
STEP 2:
REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

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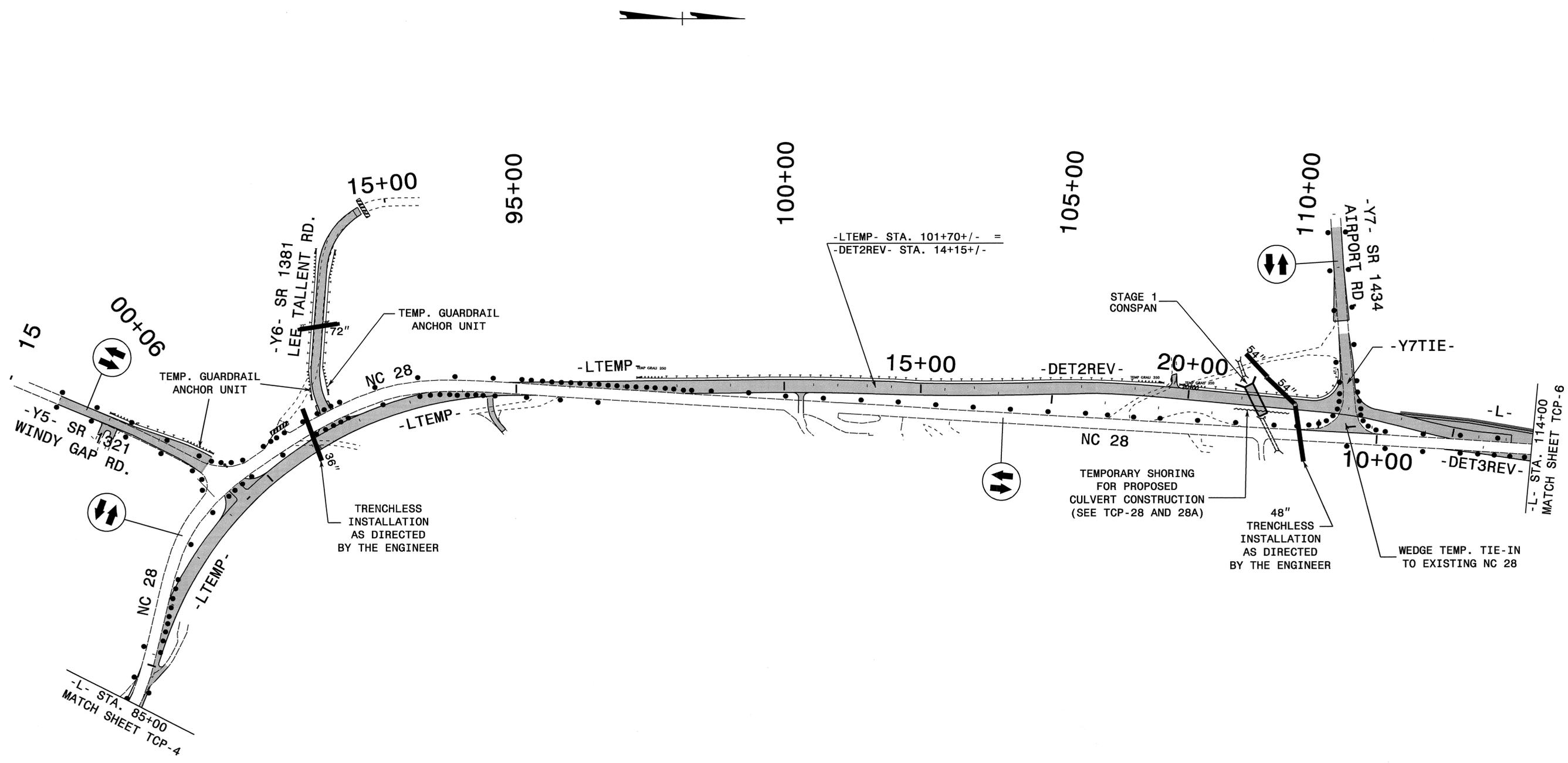
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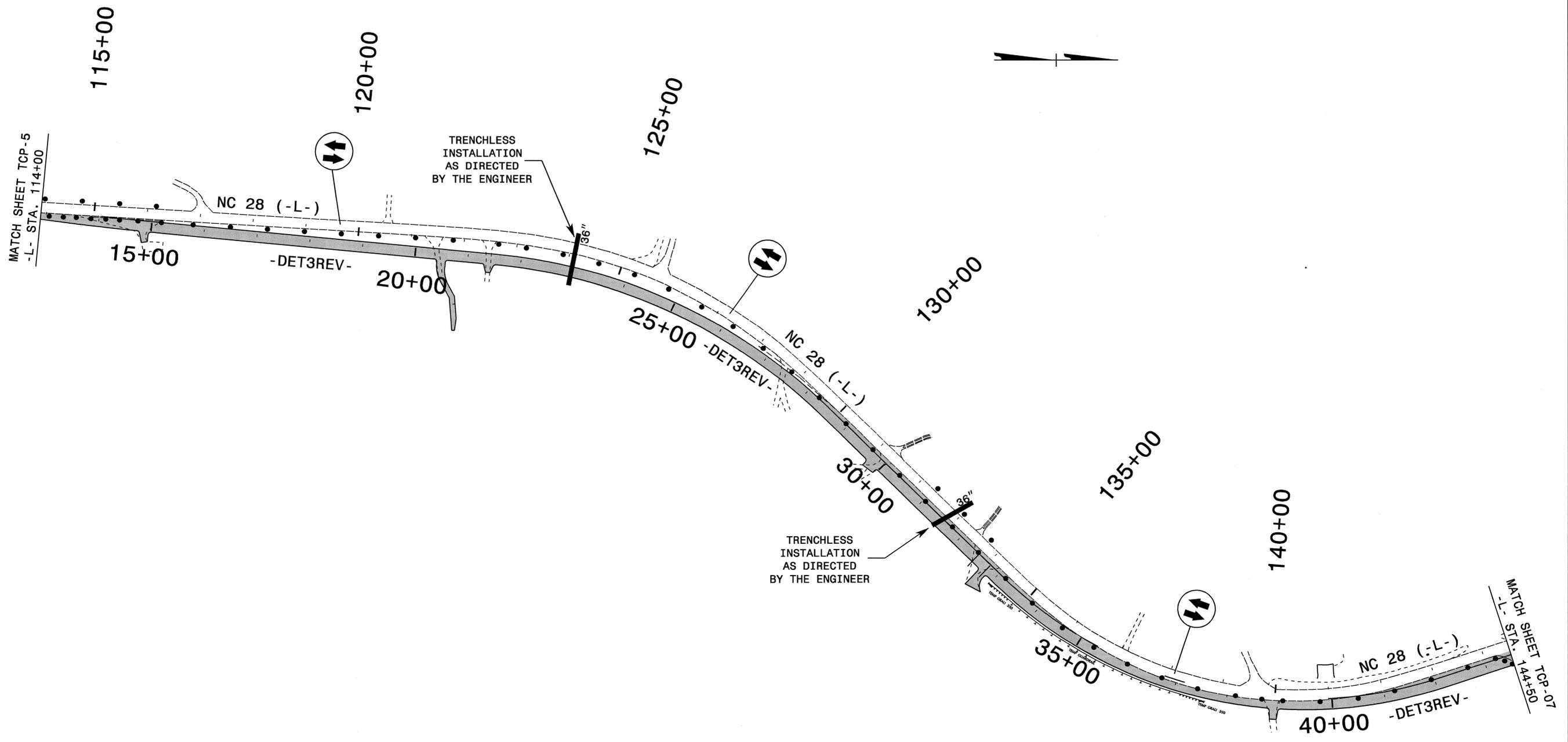
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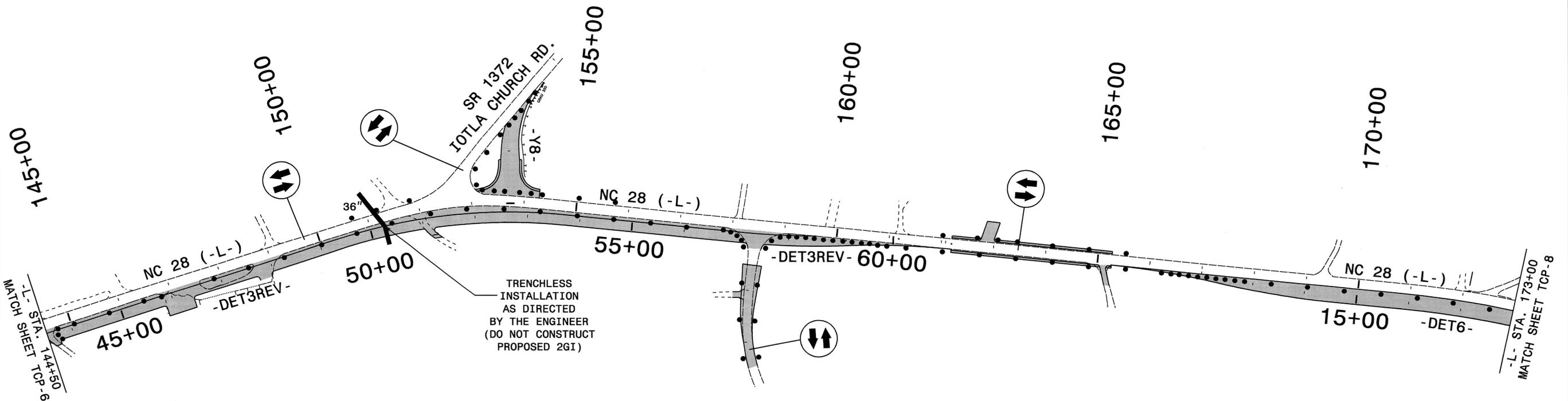
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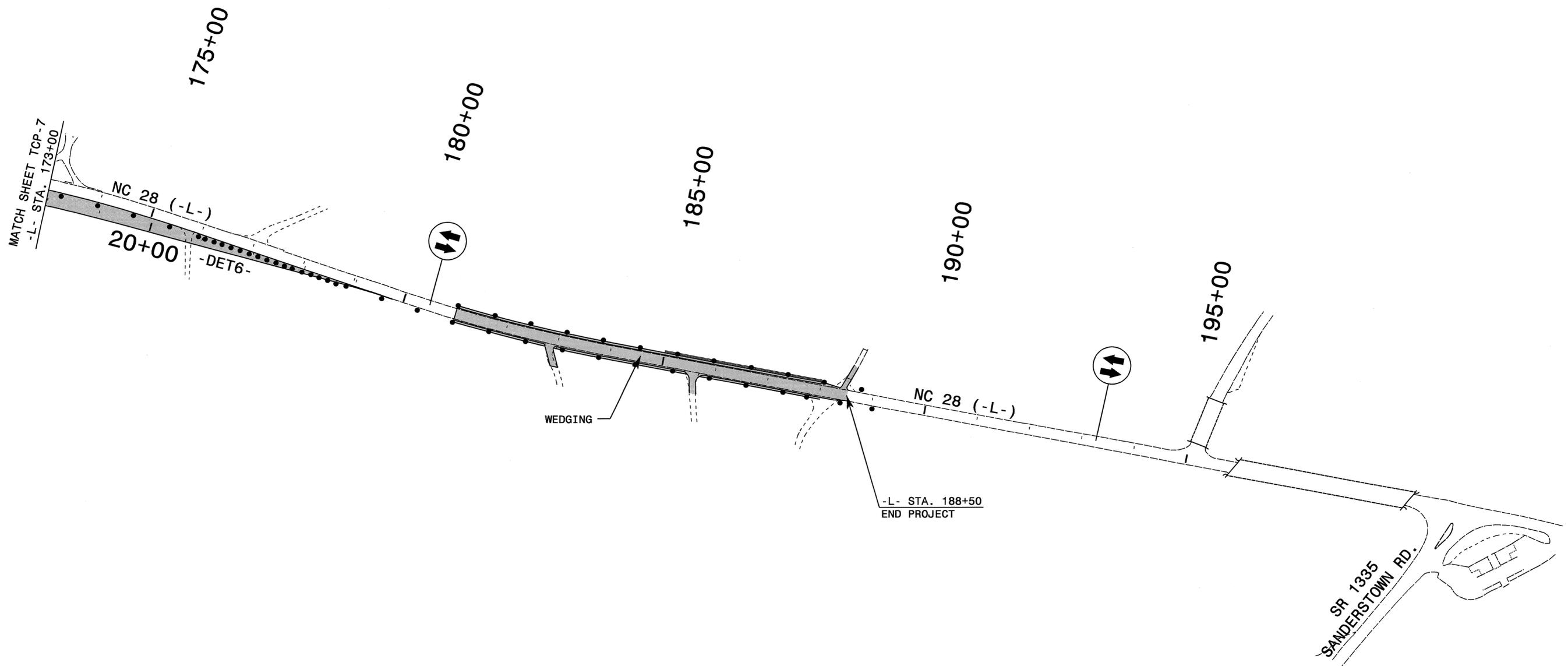
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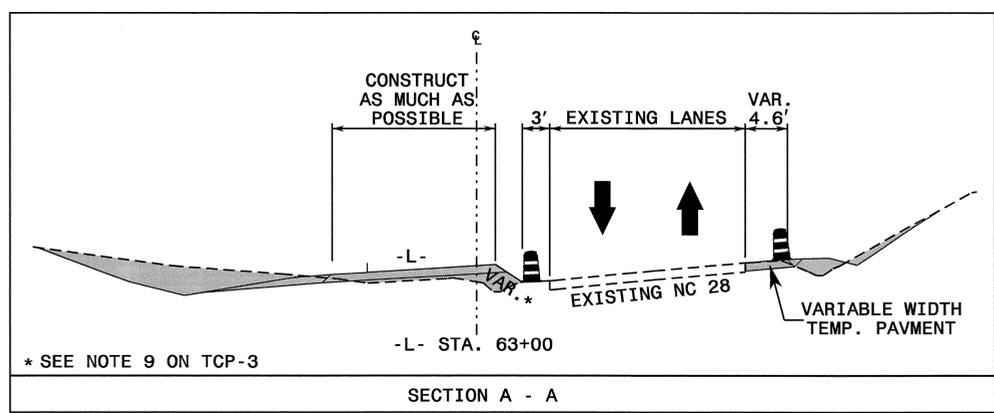
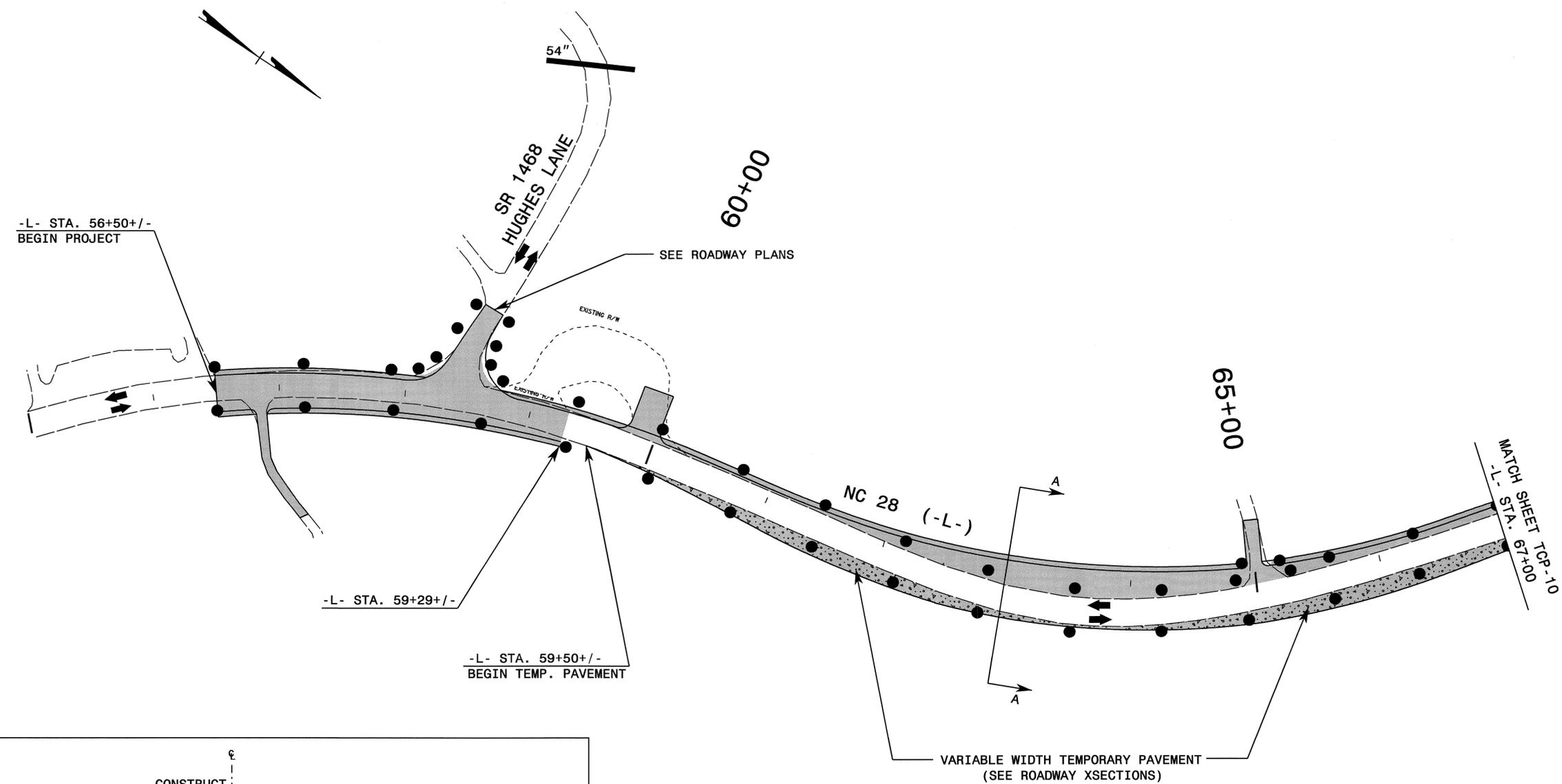
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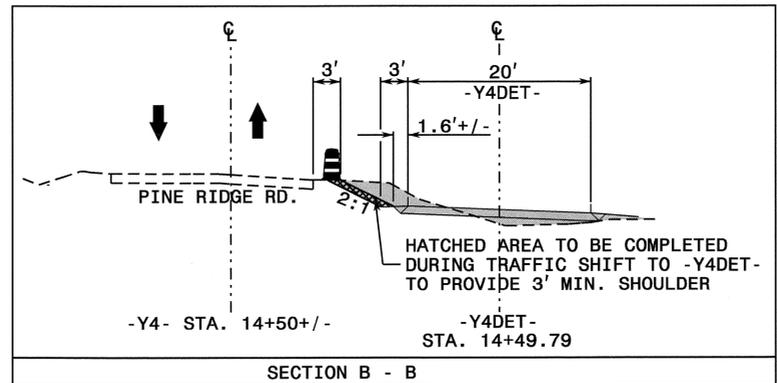
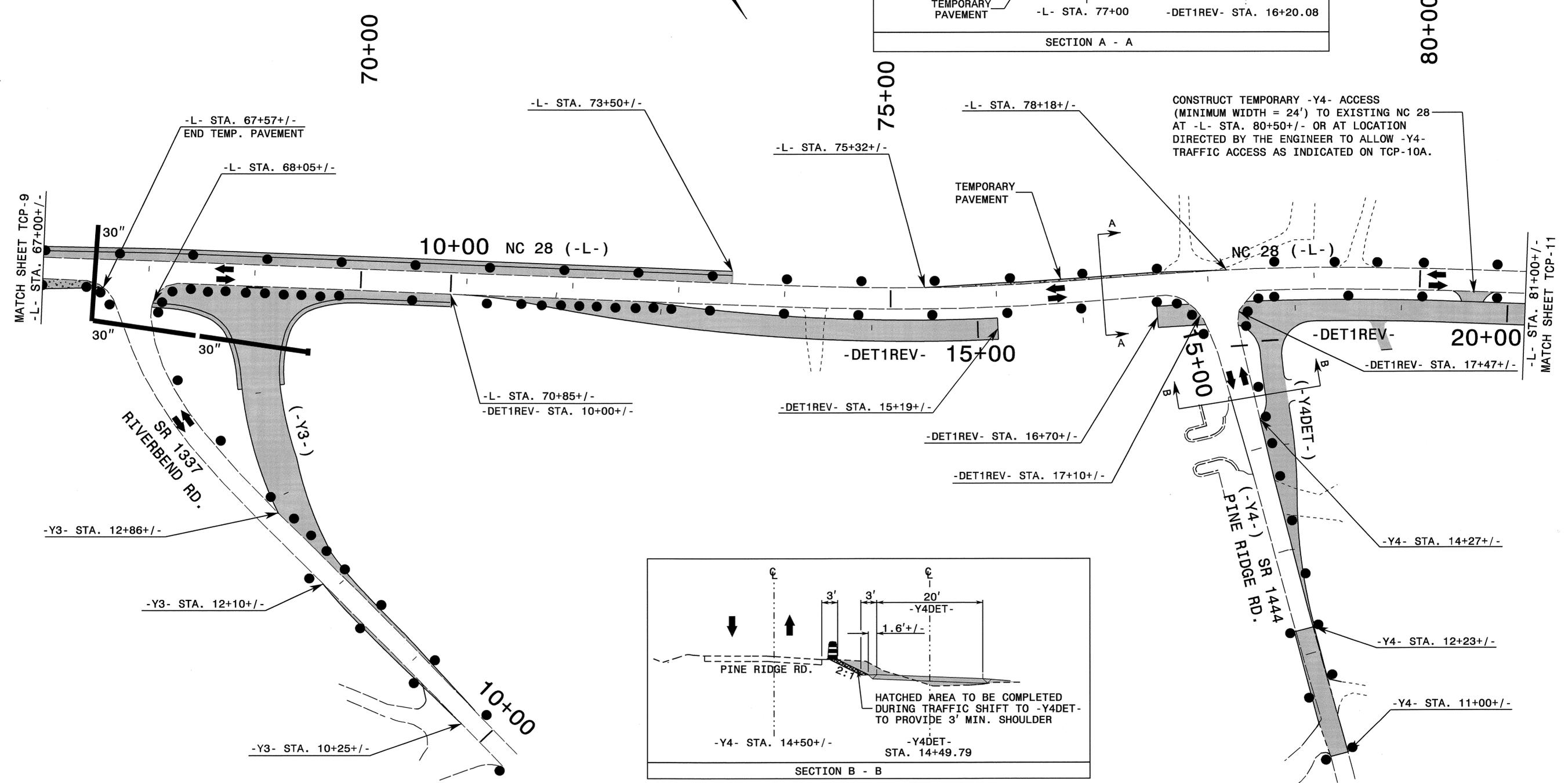
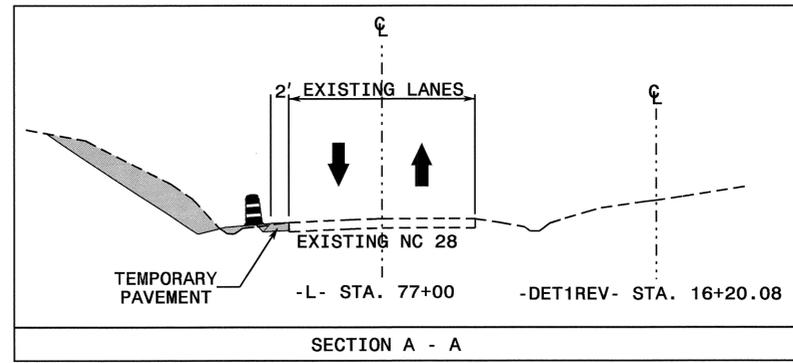
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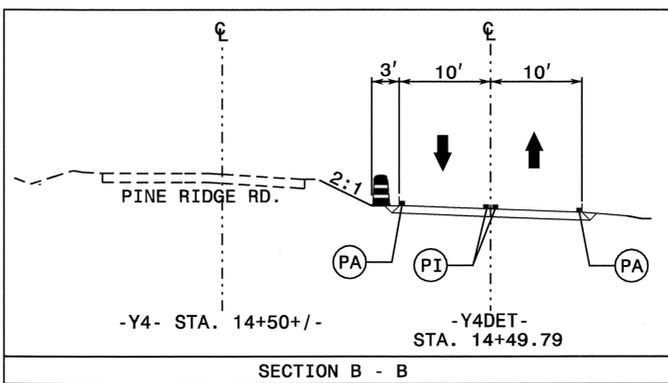
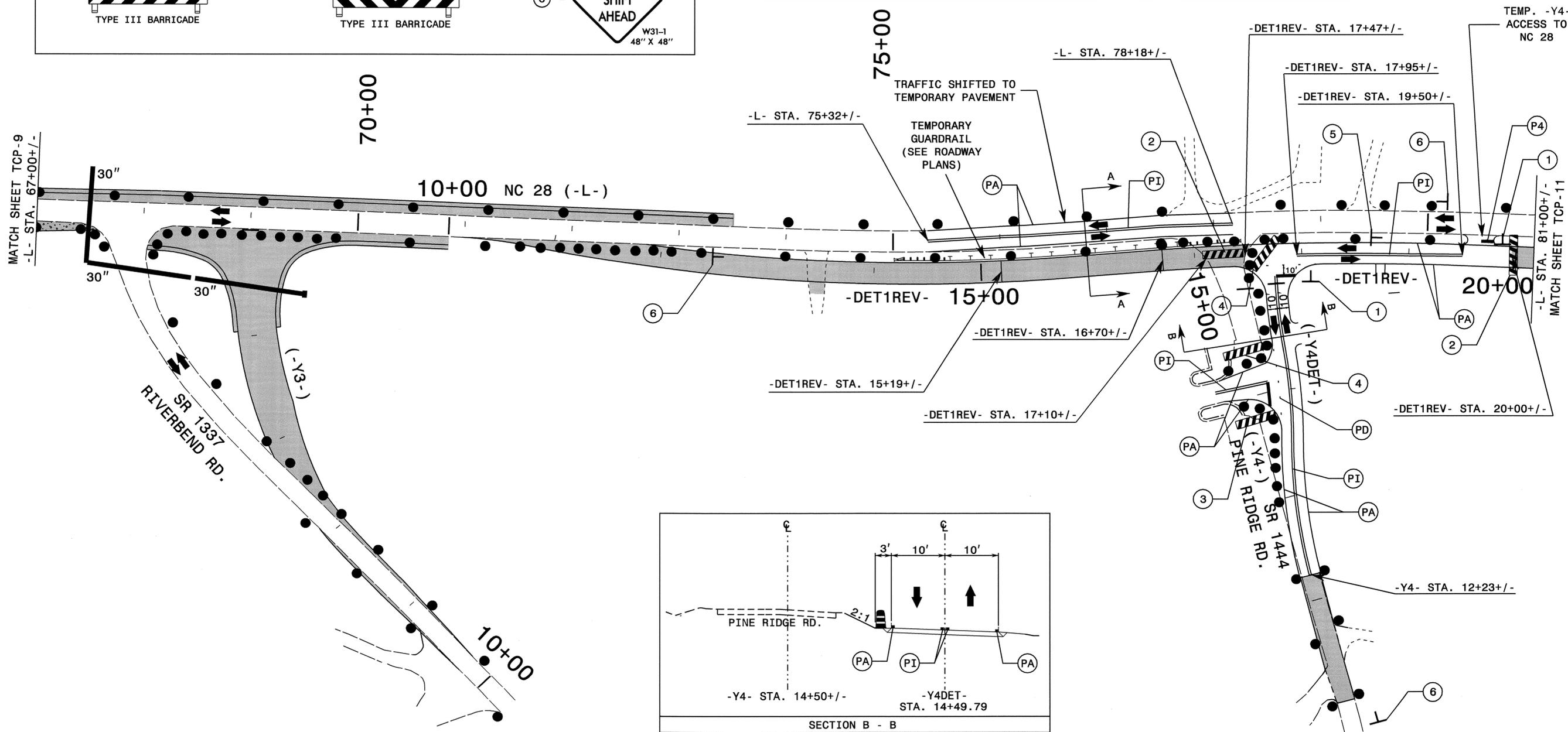
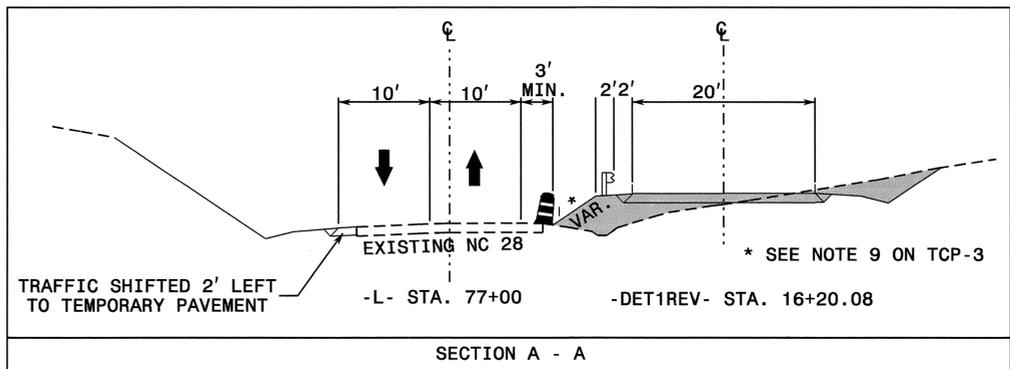
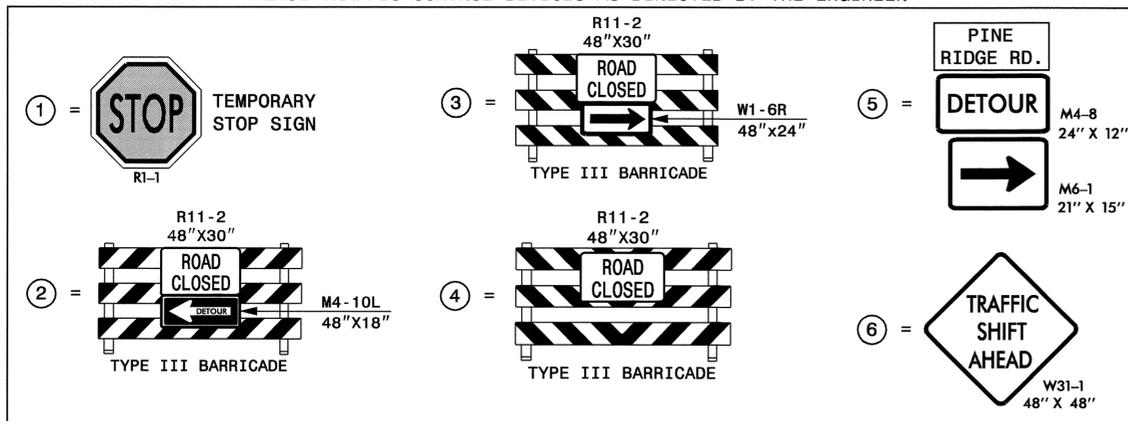
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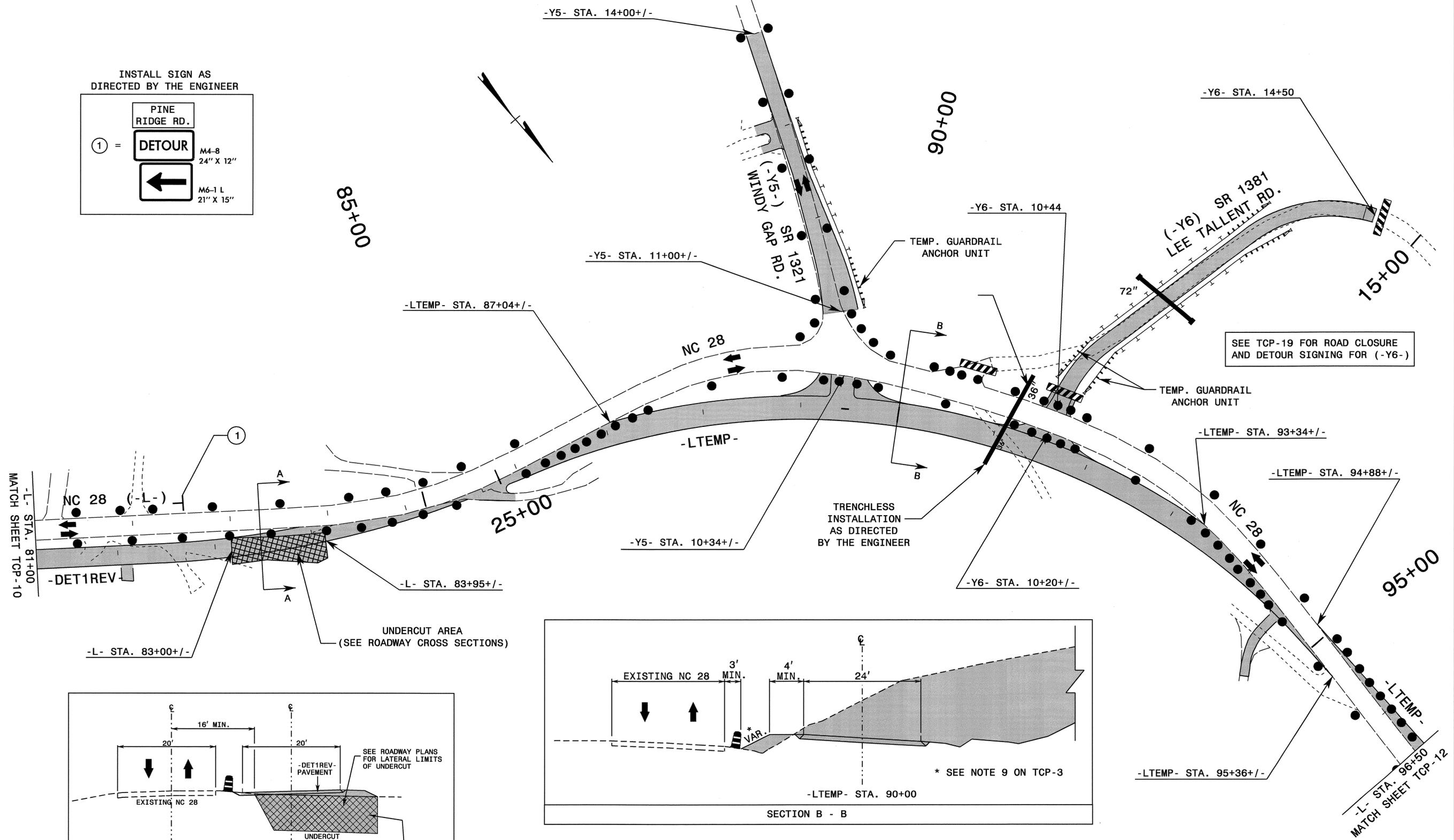
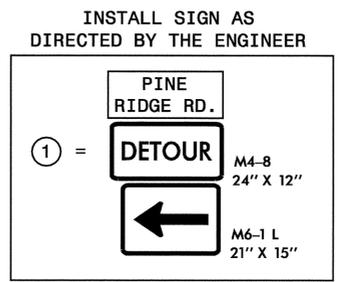
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PLACE TRAFFIC CONTROL DEVICES AS DIRECTED BY THE ENGINEER



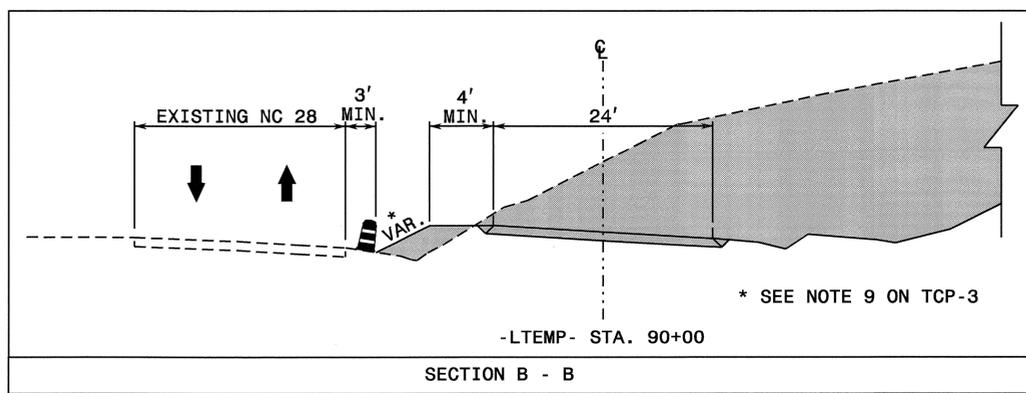
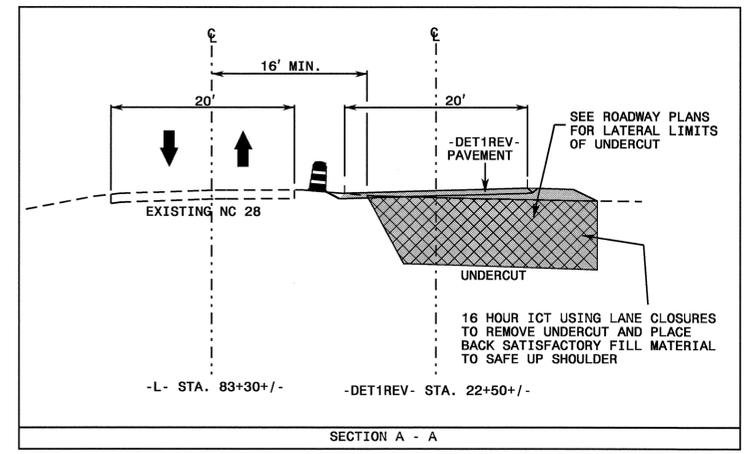
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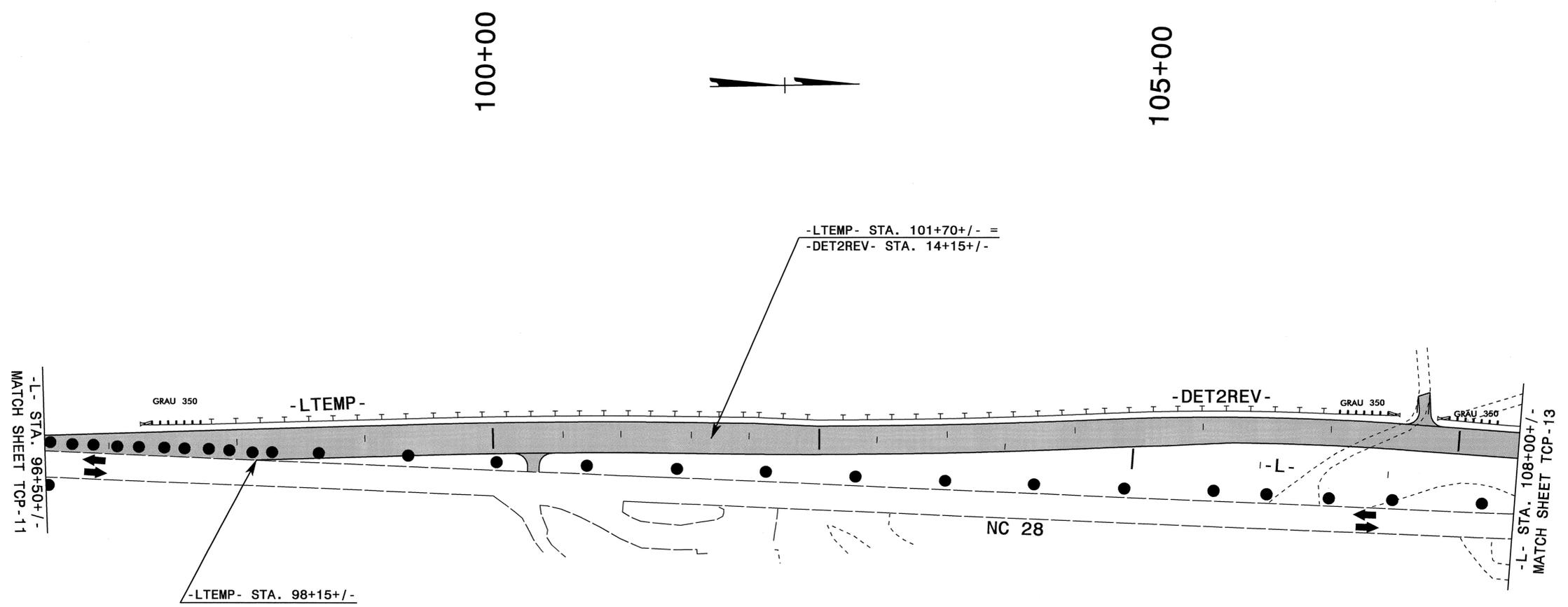
SEE TCP-19 FOR ROAD CLOSURE AND DETOUR SIGNING FOR (-Y6-)

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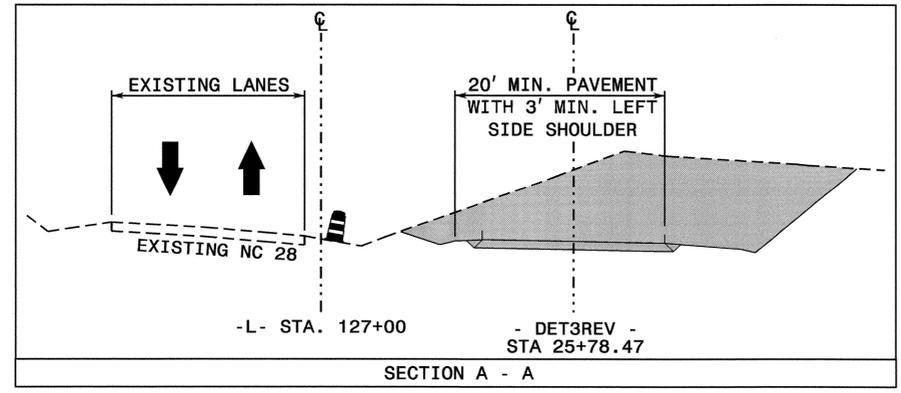
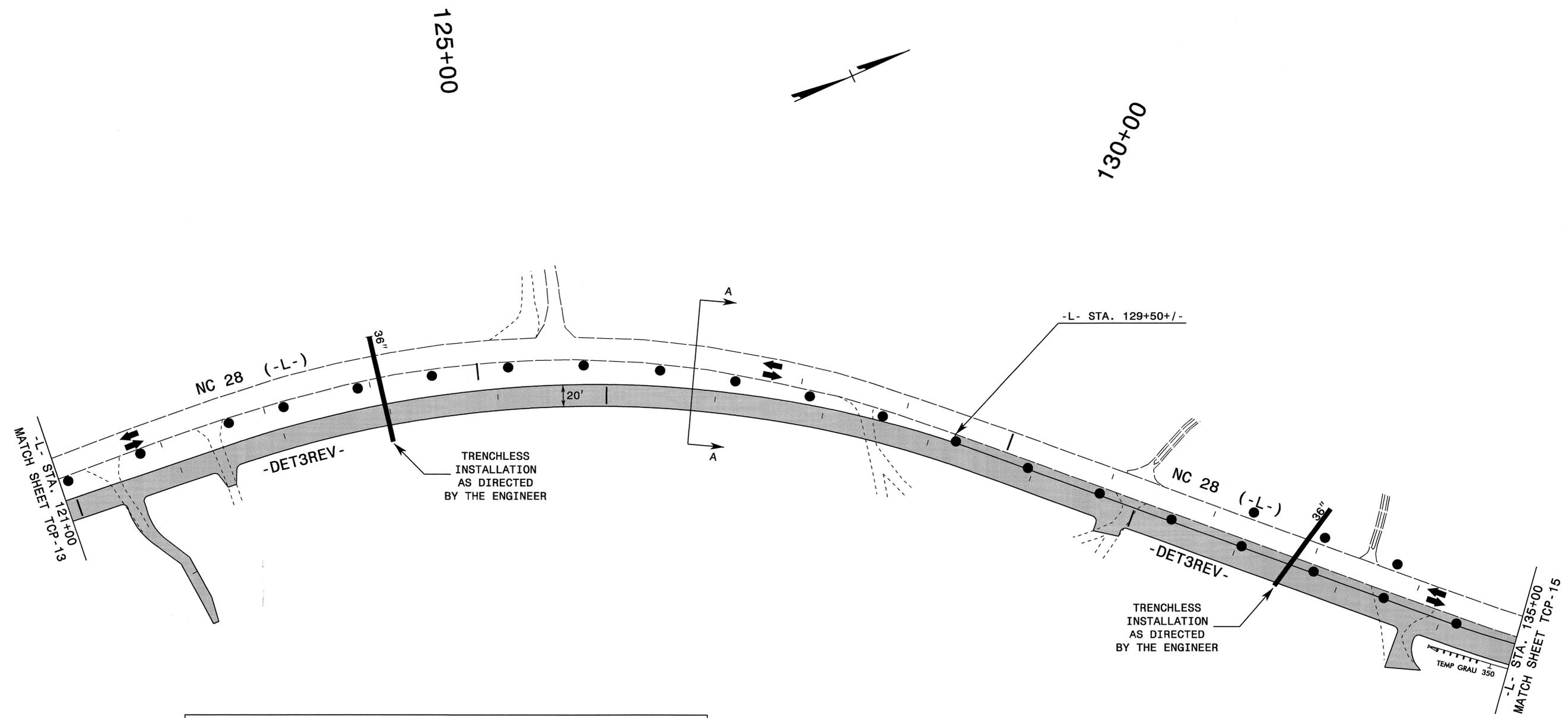
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R-2408B	TCP-12



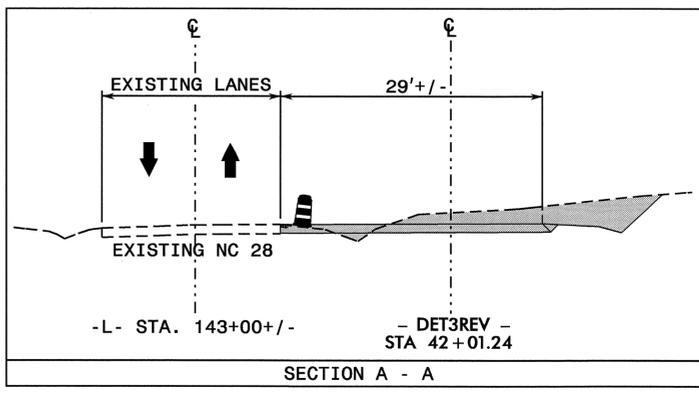
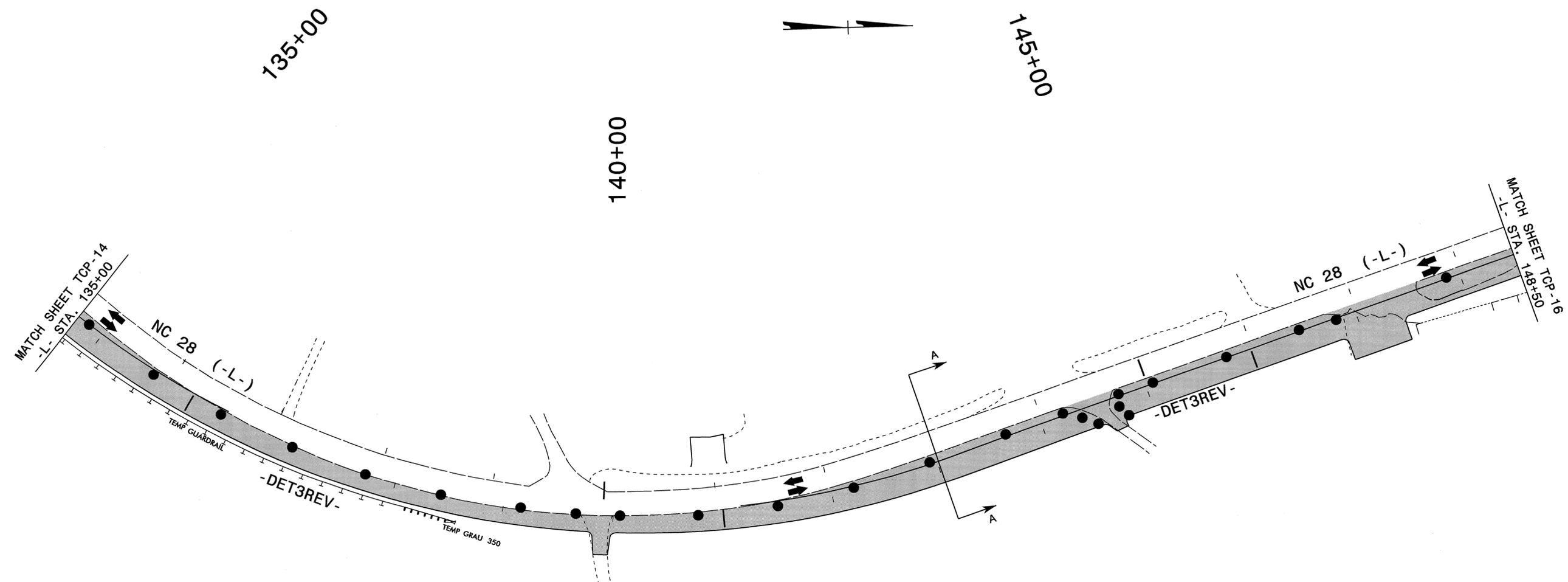
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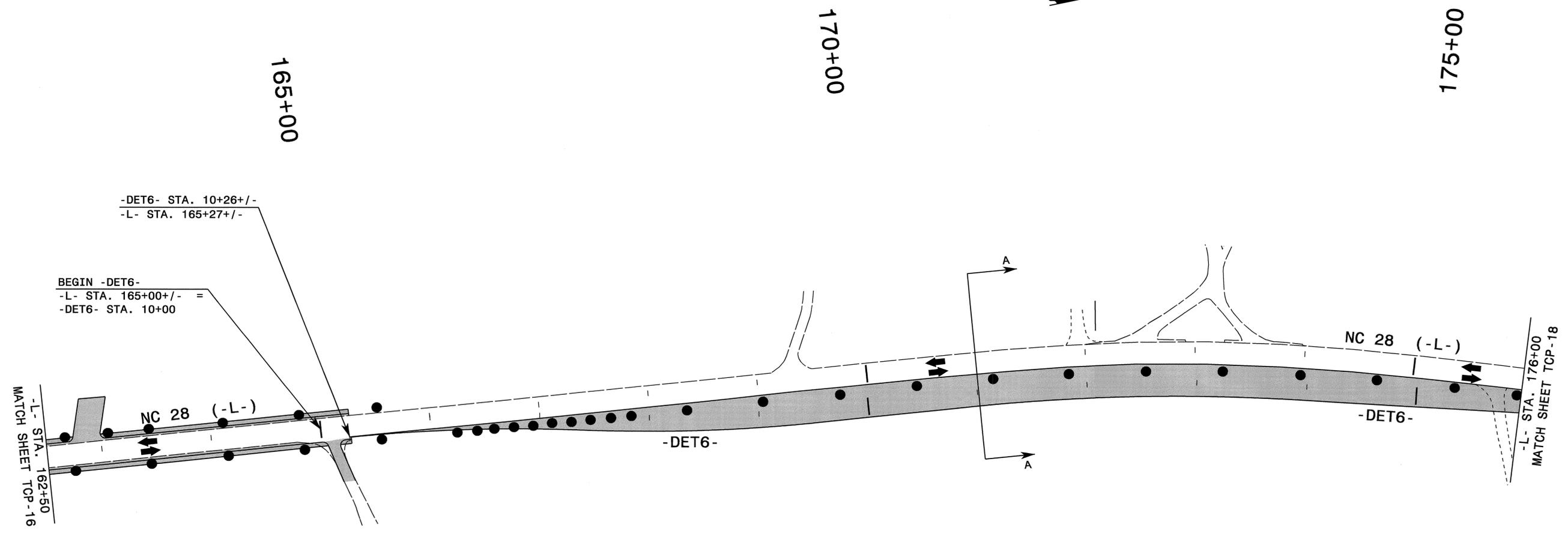
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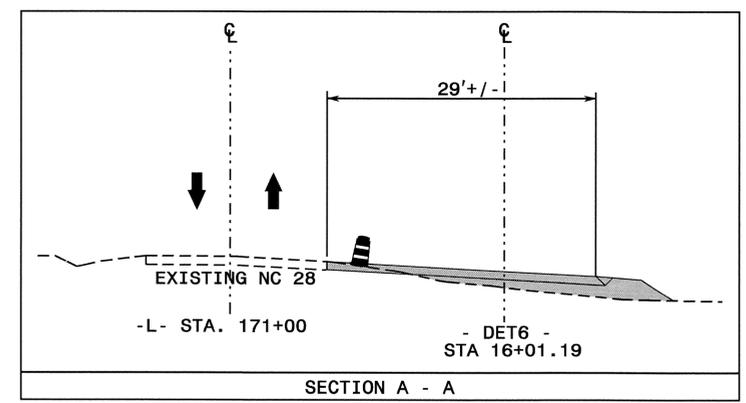
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R-2408B	TCP-17



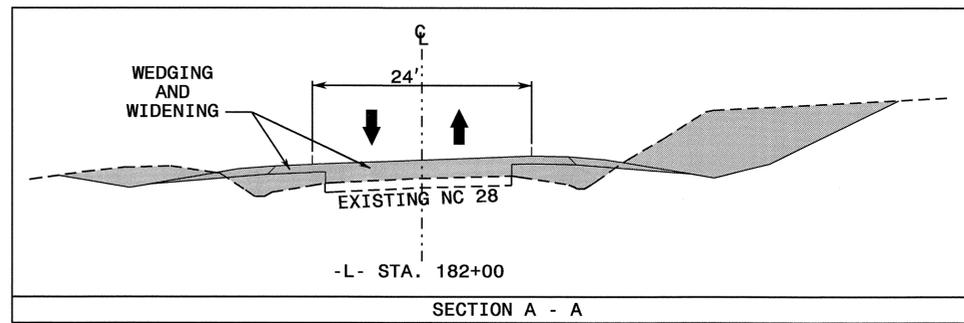
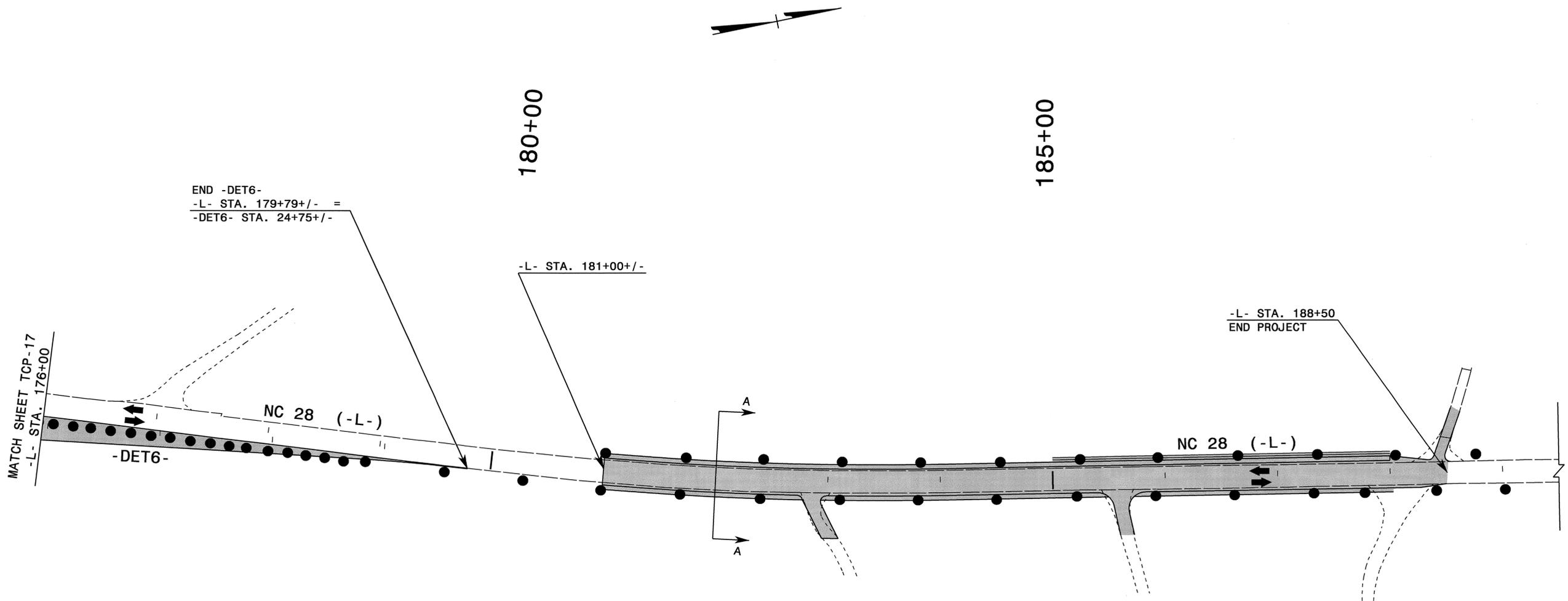
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 -L- STA. 165+27+/-

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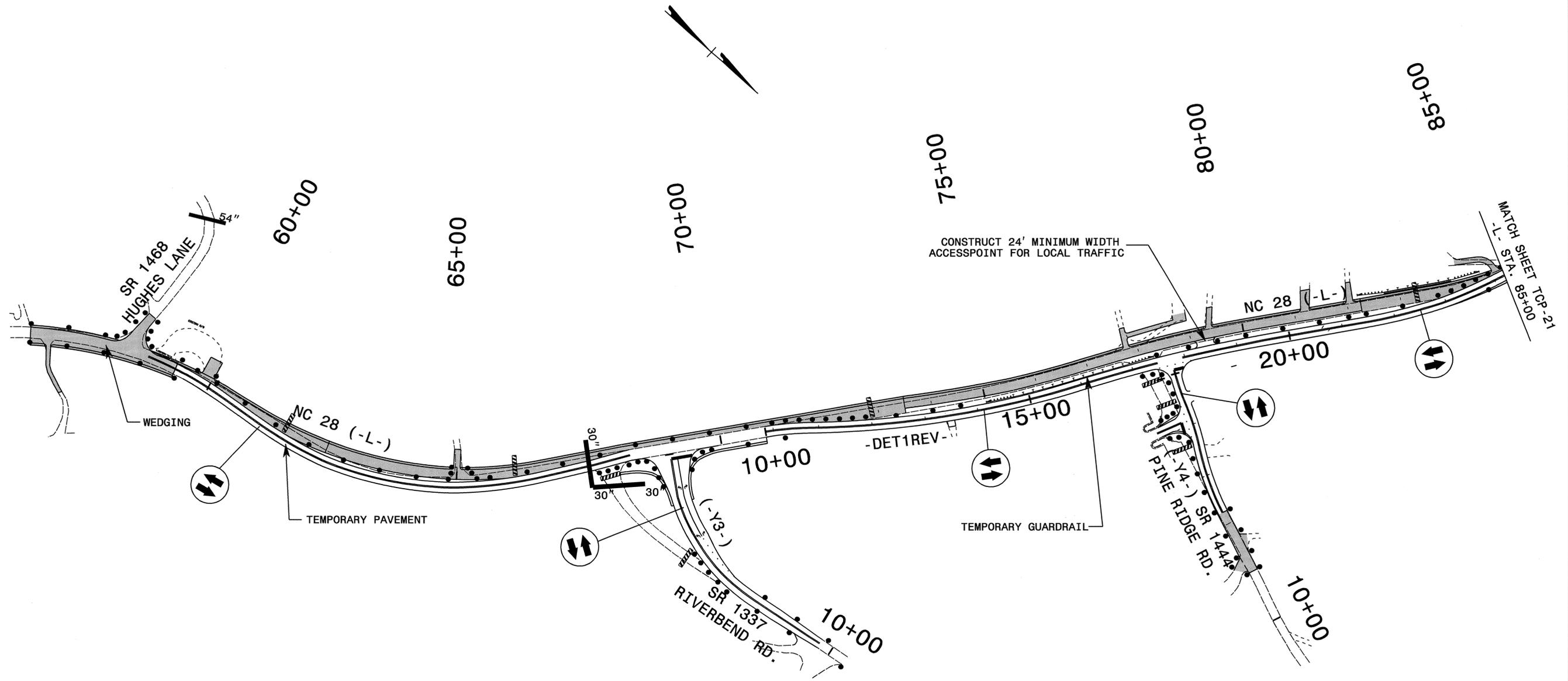
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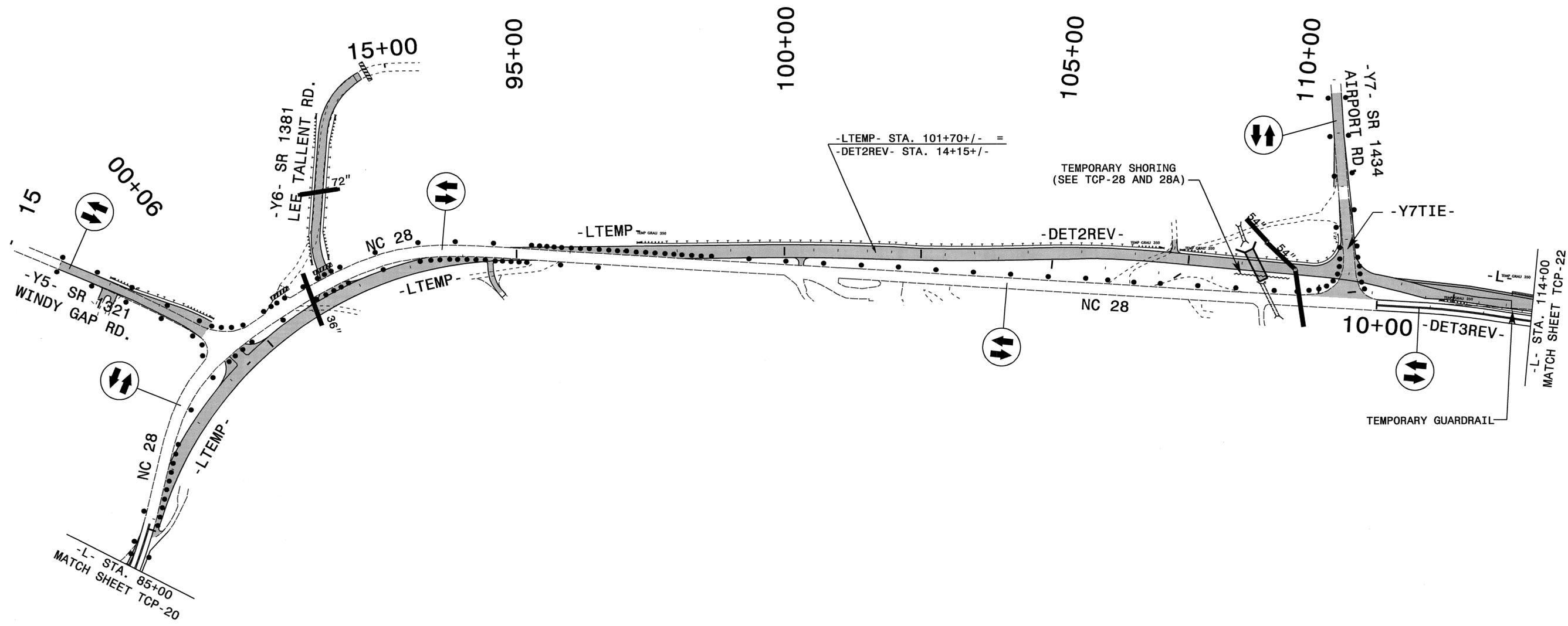
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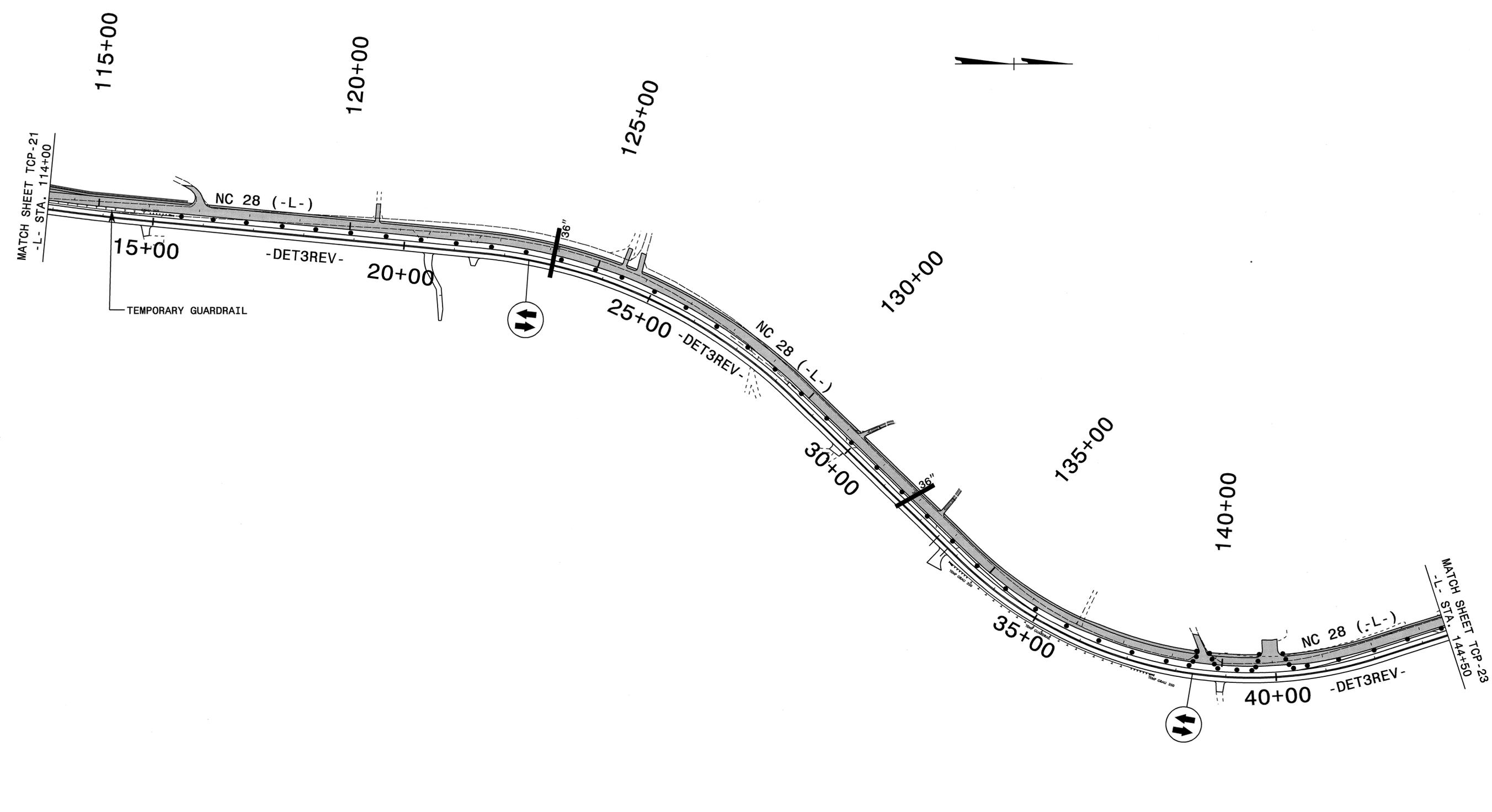
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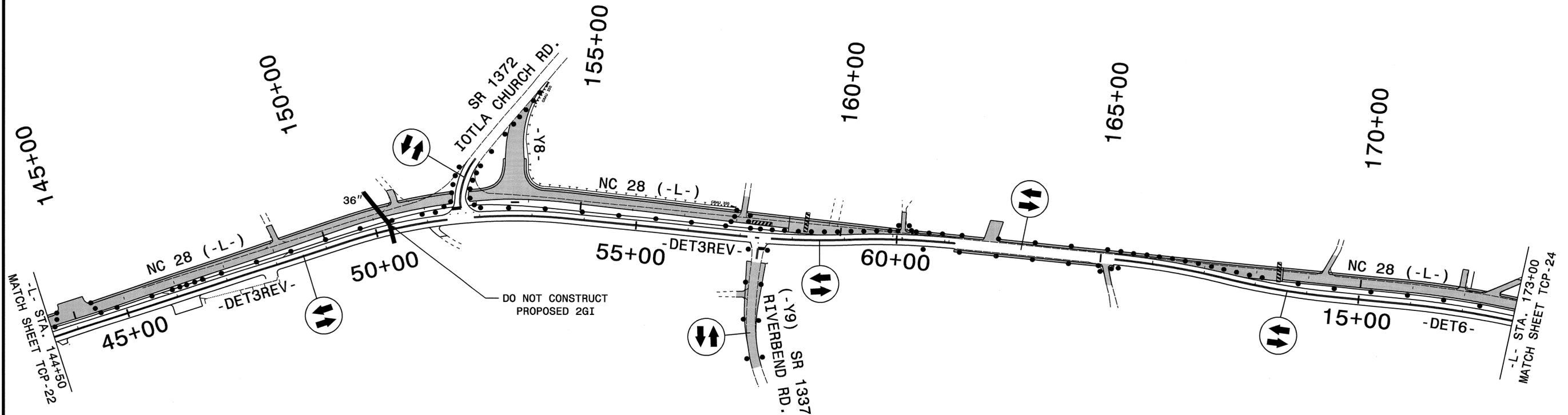
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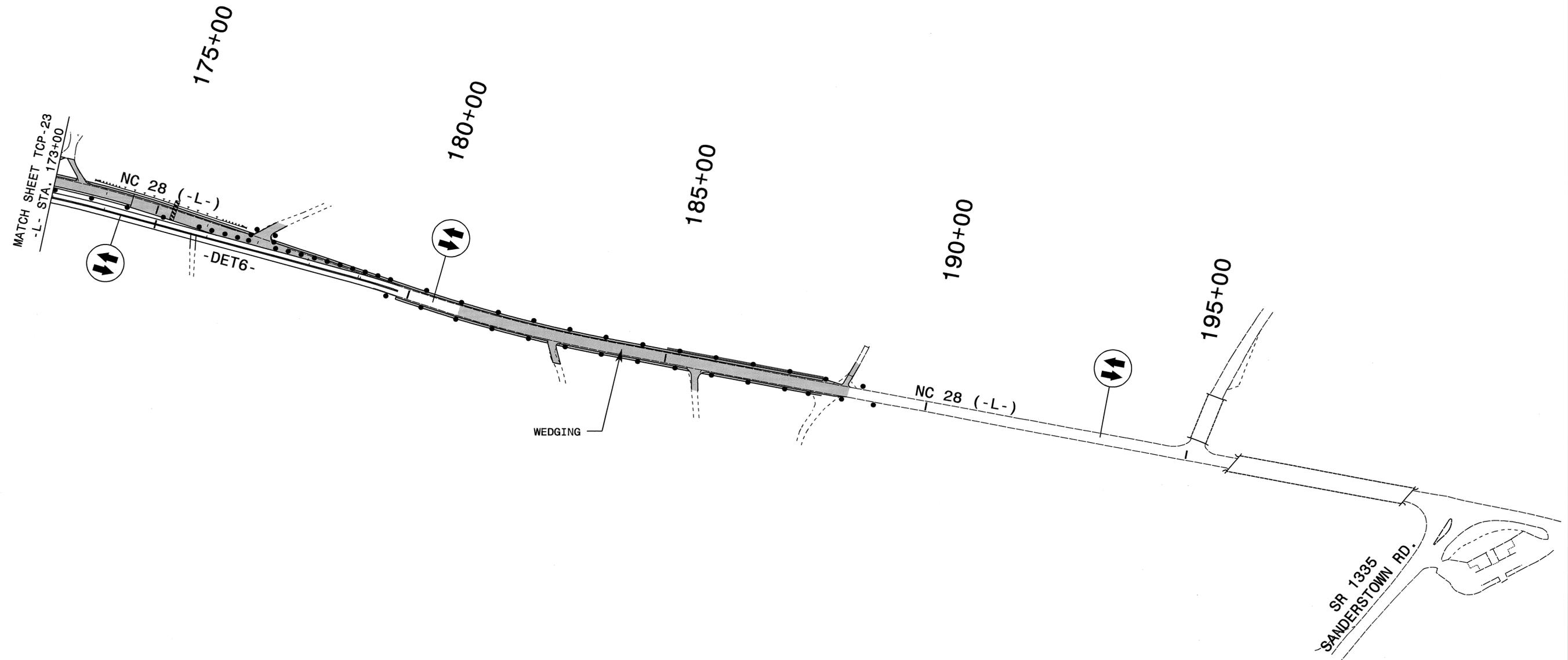
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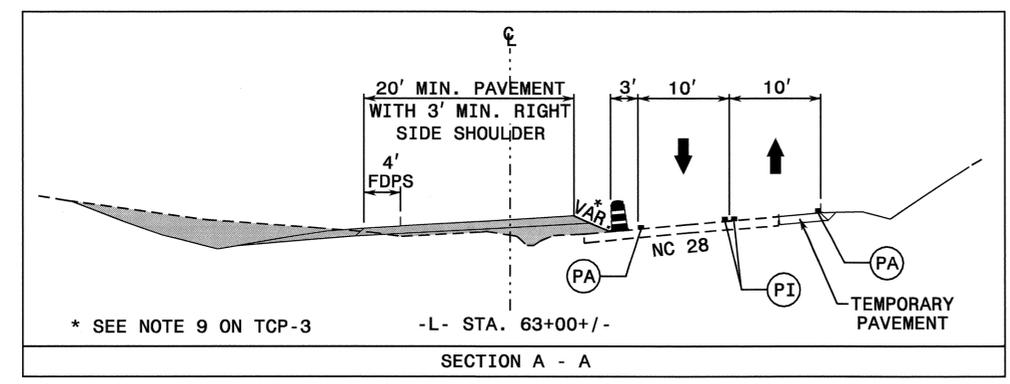
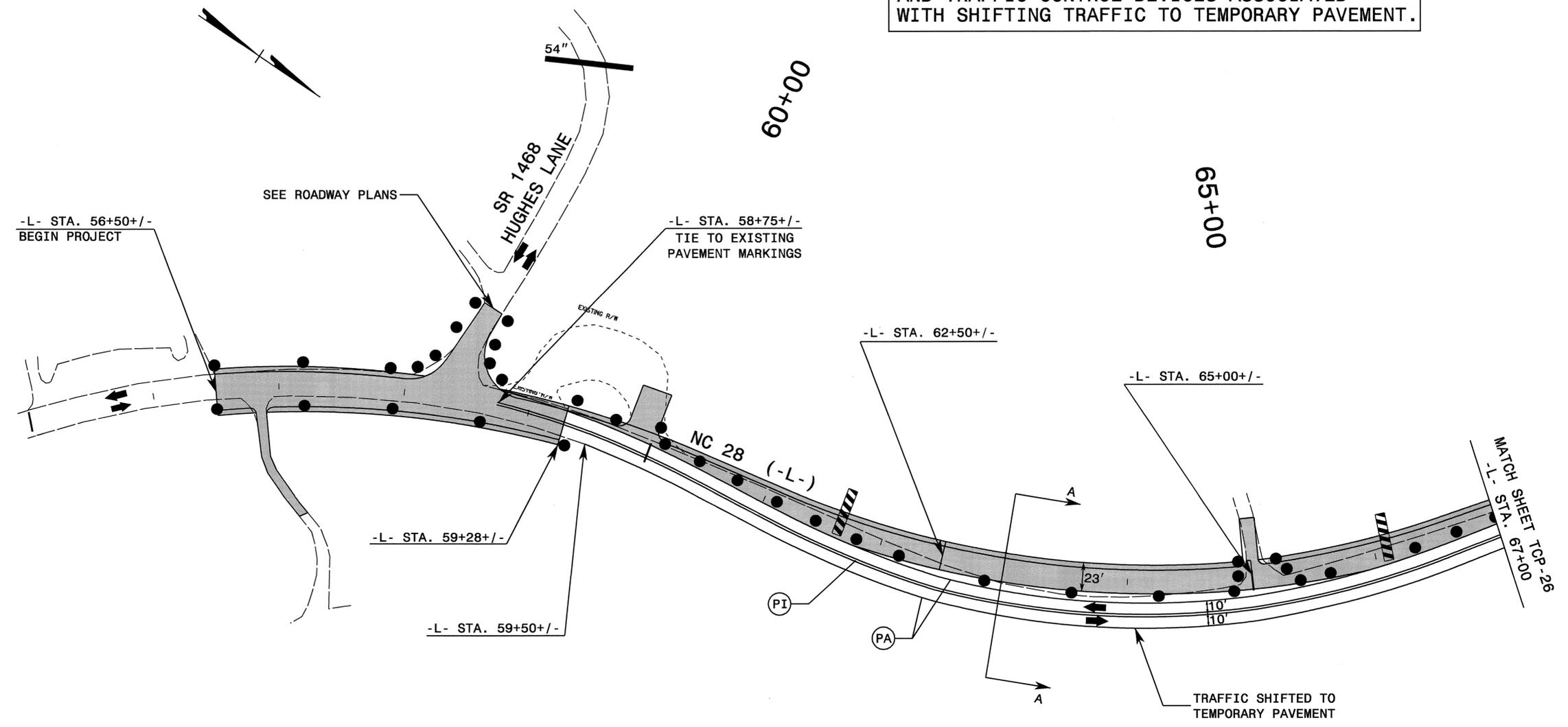
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R-2408B	TCP-25

REFER TO ROADWAY STANDARD DRAWING
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AND TRAFFIC CONTROL DEVICES ASSOCIATED
WITH SHIFTING TRAFFIC TO TEMPORARY PAVEMENT.

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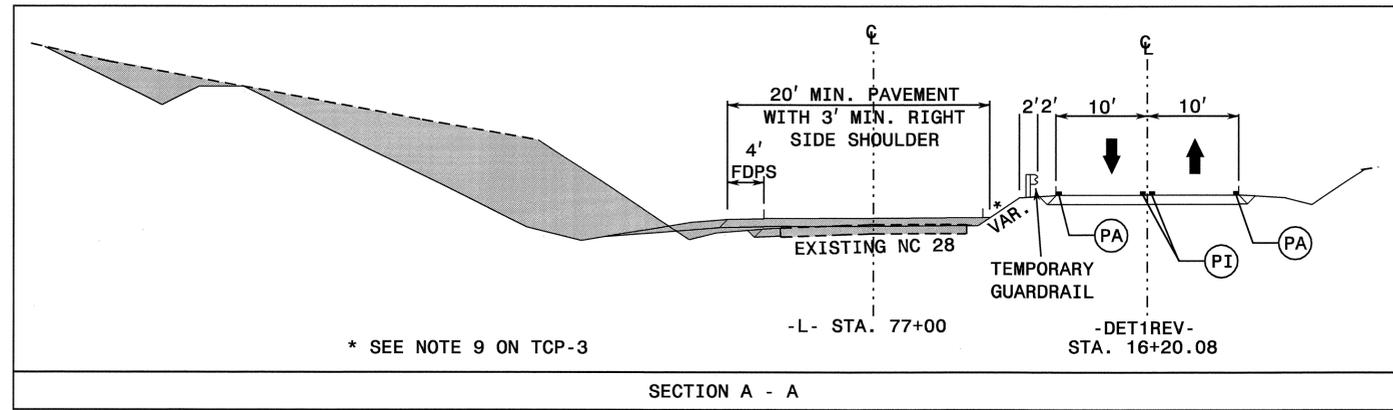
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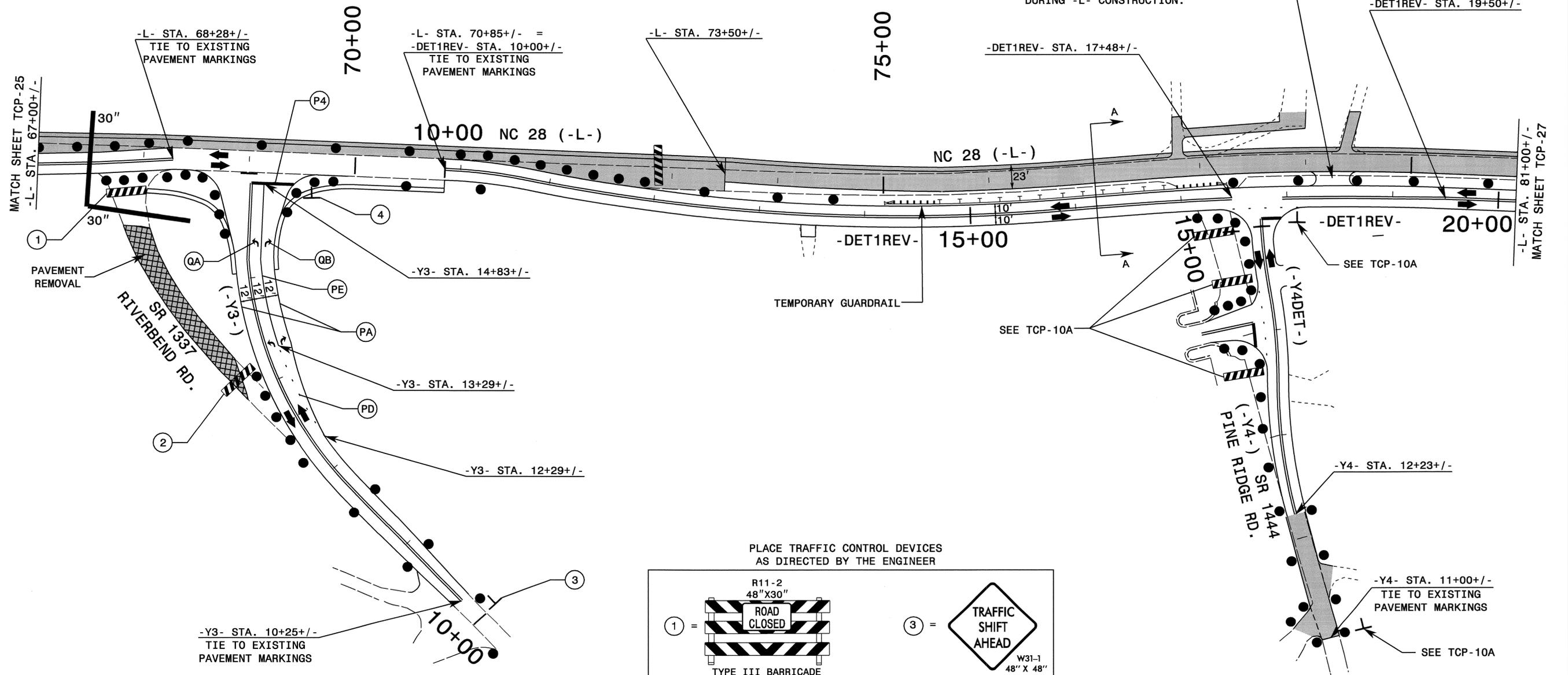
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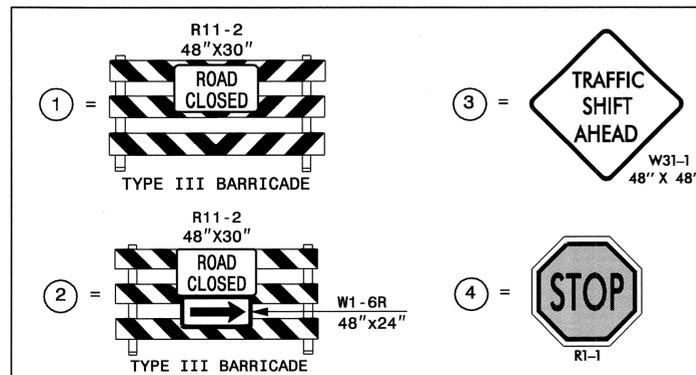


REFER TO ROADWAY STANDARD DRAWING 1101.03, SH. 3 OF 9, FOR GENERAL NOTES AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH SHIFTING TRAFFIC TO -DET1REV-.

RELOCATE A 24' MINIMUM ACCESS FOR LOCAL TRAFFIC AT -L- STA. 79+25+/- OR AT LOCATION DETERMINED BY THE ENGINEER DURING -L- CONSTRUCTION.

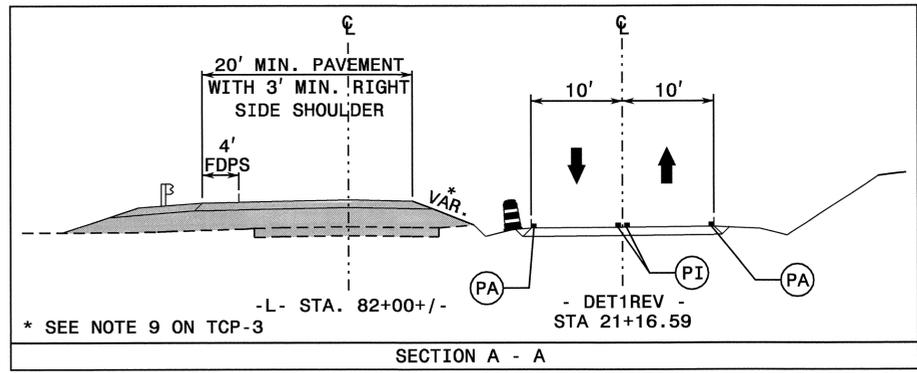
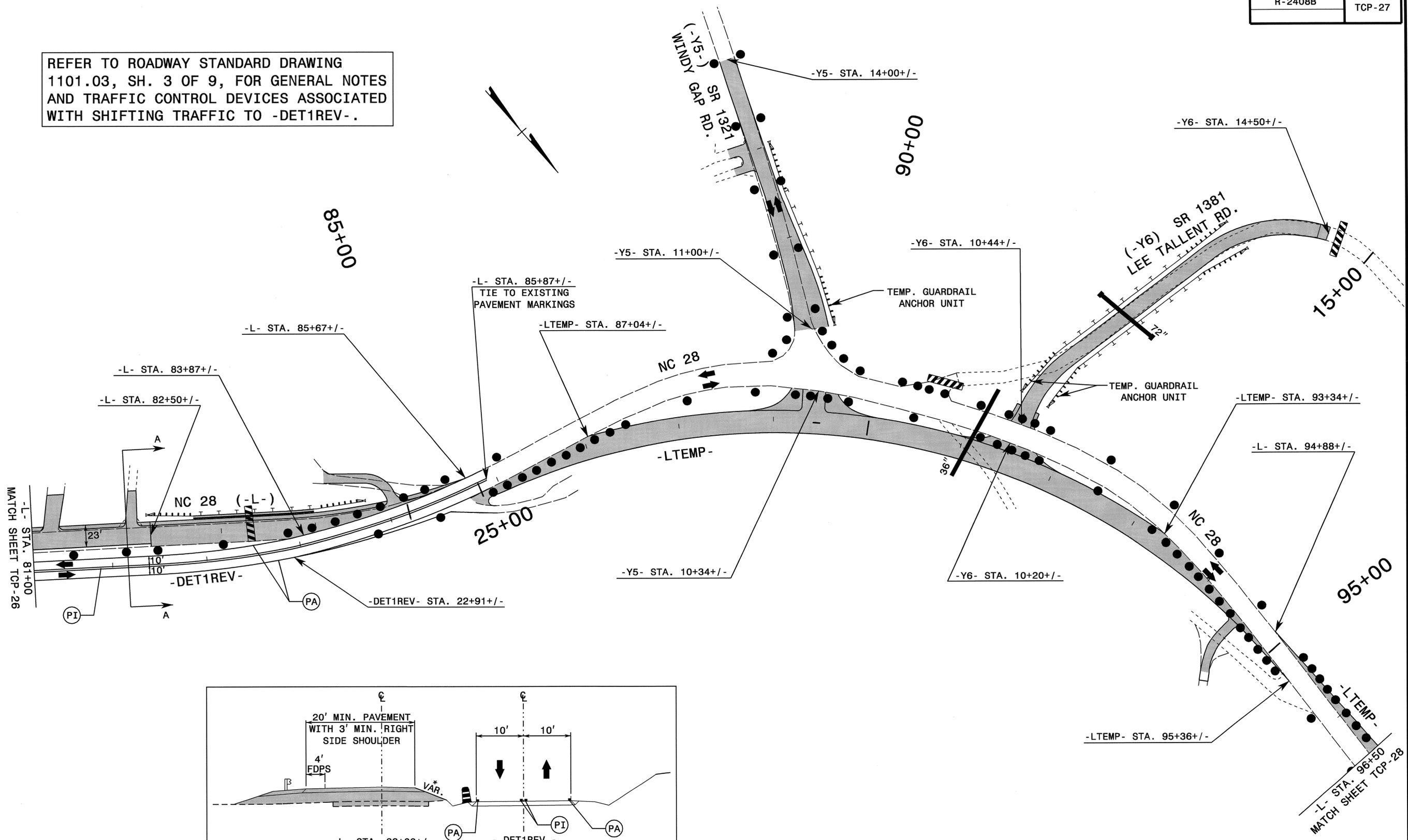


PLACE TRAFFIC CONTROL DEVICES AS DIRECTED BY THE ENGINEER



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REFER TO ROADWAY STANDARD DRAWING
1101.03, SH. 3 OF 9, FOR GENERAL NOTES
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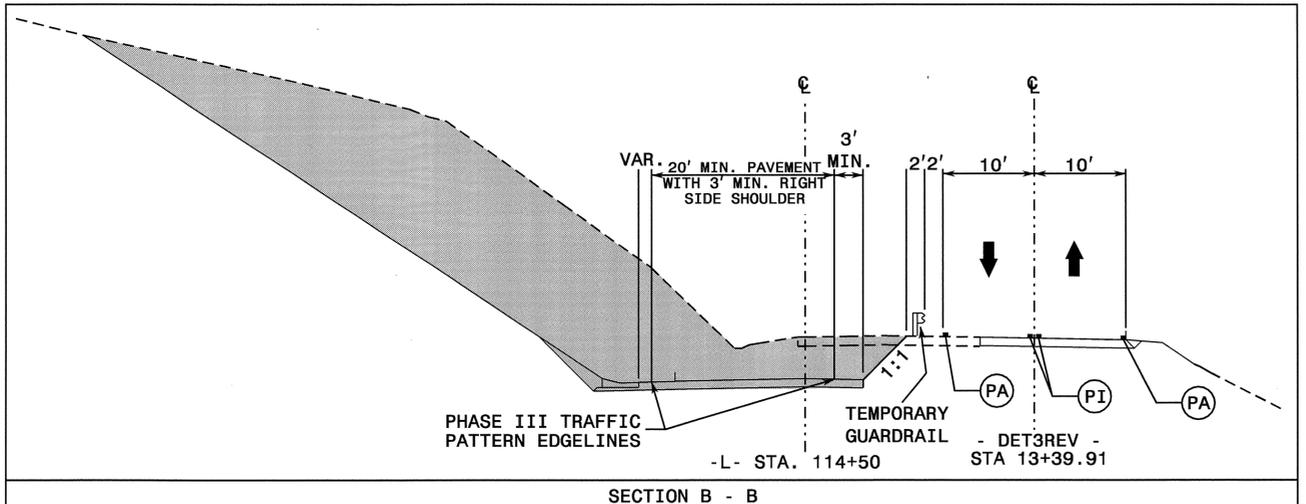
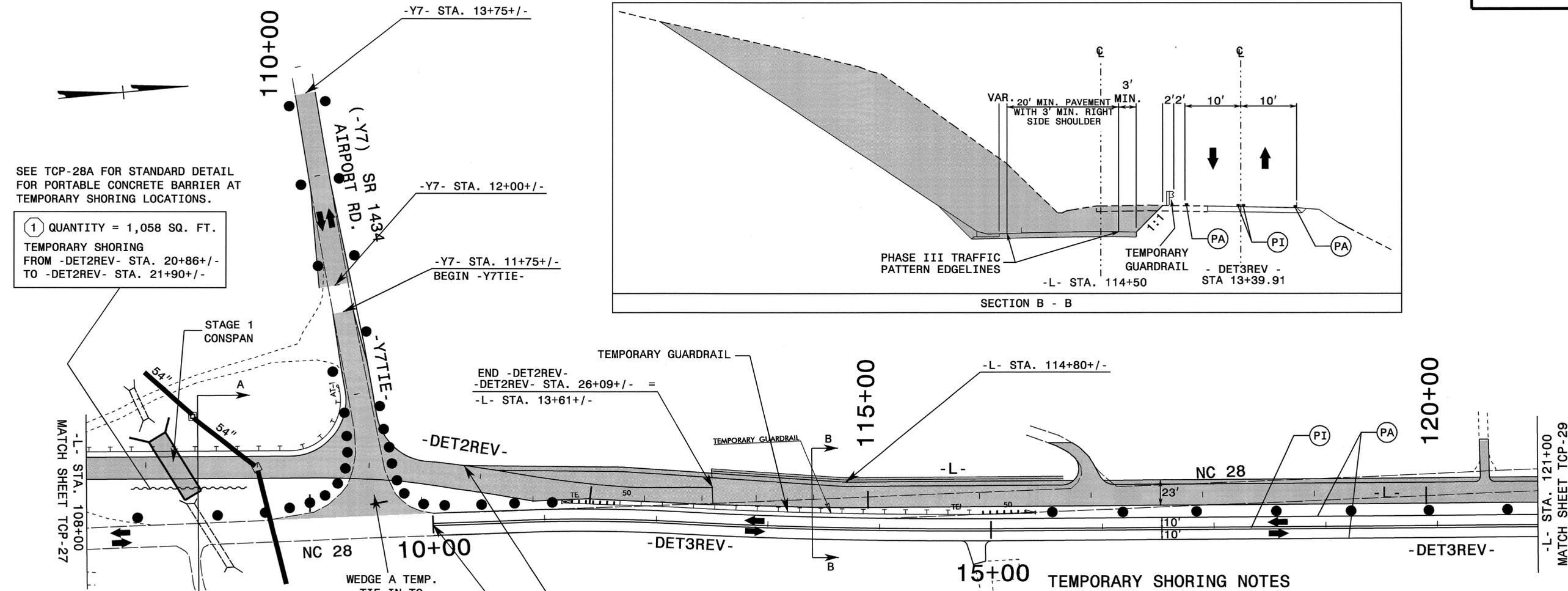


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SEE TCP-28A FOR STANDARD DETAIL FOR PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS.

1 QUANTITY = 1,058 SQ. FT.
TEMPORARY SHORING
FROM -DET2REV- STA. 20+86+/-
TO -DET2REV- STA. 21+90+/-



REFER TO ROADWAY STANDARD DRAWING 1101.03, SH. 3 OF 9, FOR GENERAL NOTES AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH SHIFTING TRAFFIC TO -DET3REV-.

Temporary Shoring No. 1

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

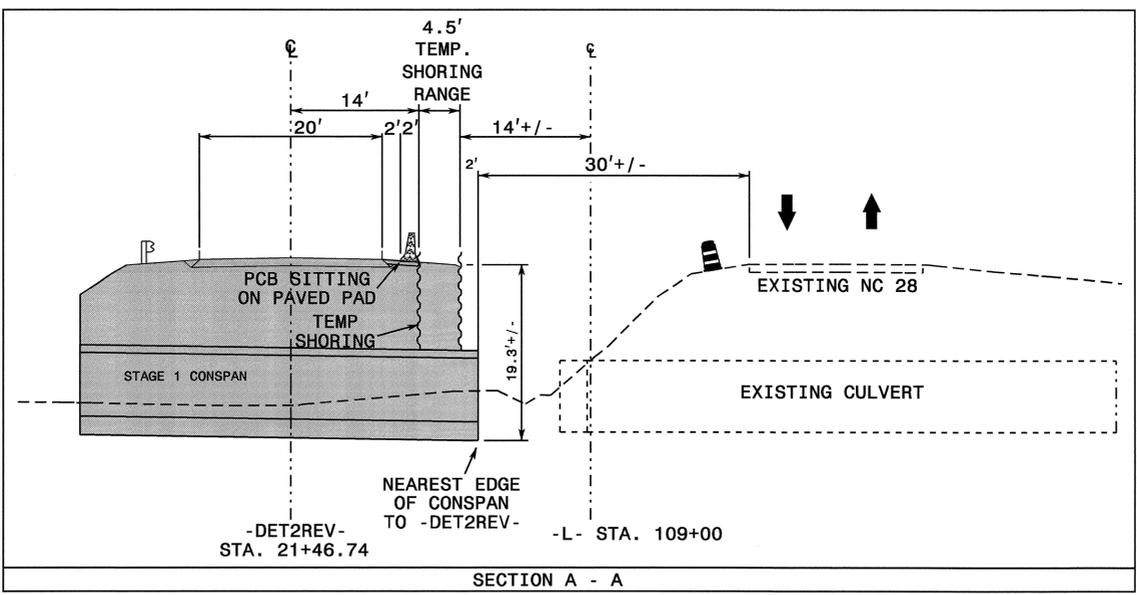
WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 20+86.00+/- -DET2REV-, OFFSET 14' TO 18.5', TO STATION 21+90.00+/- -DET2REV-, OFFSET 14' TO 18.5'.

USE THE FOLLOWING SOIL PARAMETERS:
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE, $\gamma = 120$ PCF
 UNIT WEIGHT OF SOIL BELOW WATER TABLE, $\gamma = 60$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF

IT MAY BE PREFERRED OR NECESSARY TO ANCHOR TEMPORARY SHORING FROM STATION 20+86.00+/- -DET2REV-, OFFSET 14' TO 18.5', TO STATION 21+90.00+/- -DET2REV-, OFFSET 14' TO 18.5'. THE TEMPORARY SHORING PROVISION DOES NOT APPLY TO ANCHORED TEMPORARY SHORING. IF ANCHORED SHORING IS PROPOSED, SUBMIT WORKING DRAWINGS, DESIGN CALCULATIONS AND AN ANCHORED TEMPORARY SHORING PROVISION FOR REVIEW AND ACCEPTANCE IN ACCORDANCE WITH ARTICLE 105-2 OF THE STANDARD SPECIFICATIONS.

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 20+86.00+/- -DET2REV-, OFFSET 14' TO 18.5', TO STATION 21+90.00+/- -DET2REV-, OFFSET 14' TO 18.5'. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.



THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE WZTC ON JANUARY 15, 2010 AND SEALED BY A PROFESSIONAL ENGINEER, JOHN FARGHER, PE, LICENSE #023480

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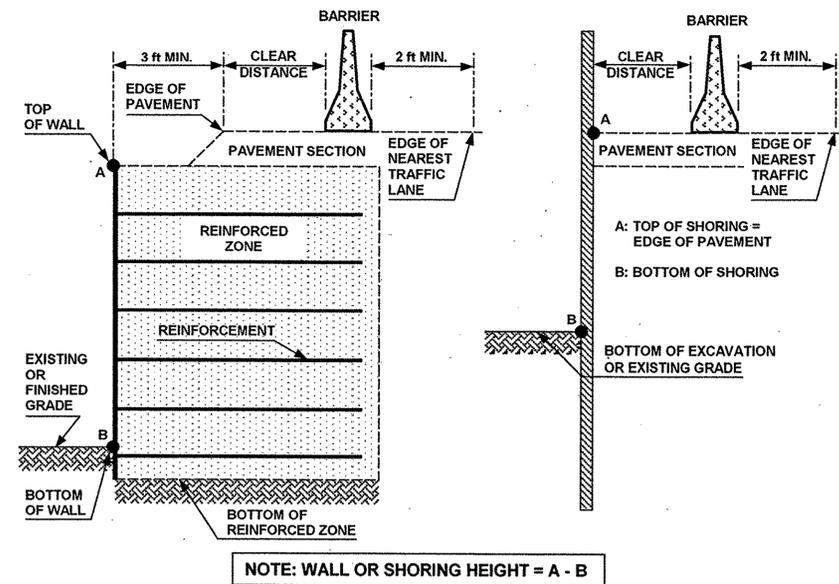


FIGURE A

NOTES

- REFER TO THE TRAFFIC CONTROL PLANS FOR SHORING LOCATIONS AND SOIL PARAMETERS.
- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR MORE INFORMATION ABOUT TEMPORARY SHORING, MEASUREMENT AND PAYMENT.
- PROVIDE PORTABLE CONCRETE BARRIER TO PROTECT TEMPORARY SHORING IF SHORING IS LOCATED WITHIN THE CLEAR ZONE AS DEFINED IN 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).
- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED PCB, ANCHORED PCB OR AN OREGON BARRIER FROM THE TABLE SHOWN IN FIGURE B. FOR TRAFFIC LANES AND PORTABLE CONCRETE BARRIER LOCATED ABOVE AND BEHIND TEMPORARY SHORING, THE FOLLOWING ARE DEFINED AS:

CLEAR DISTANCE - HORIZONTAL DISTANCE FROM THE BACK FACE OF THE BARRIER TO THE EDGE OF PAVEMENT FOR TEMPORARY MSE WALL OR TO THE FACE OF NON-ANCHORED TEMPORARY SHORING AS SHOWN IN FIGURE A.

OFFSET - HORIZONTAL DISTANCE FROM THE FRONT FACE OF THE BARRIER TO CENTERLINE OF THE FURTHEST TRAFFIC LANE AS SHOWN IN FIGURE B FOR 3 TRAFFIC LANES.
- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET AN UNANCHORED PCB AGAINST THE TRAFFIC SIDE OF THE SHORING AND DESIGN SHORING FOR TRAFFIC IMPACT OR USE THE "SURCHARGE CASE WITH TRAFFIC IMPACT" FOR THE STANDARD TEMPORARY SHORING. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT UNIT FOR APPLICABLE PAVEMENT DESIGN).
- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- USE OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH DETAIL DRAWING AND SPECIAL PROVISION OBTAINED FROM: WORK ZONE TRAFFIC CONTROL UNIT WEB PAGE.
- UNLESS NOTED OTHERWISE ON THE PLANS, SET PORTABLE CONCRETE BARRIER WITH A MINIMUM DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A.
- FOR PORTABLE CONCRETE BARRIER ABOVE AND BEHIND TEMPORARY MSE 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.
- 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' 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 or Oregon Barrier	Asphalt	All Offsets	24 for All Design Speeds					
Anchored PCB or Oregon Barrier	Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds					

* See Figure Below

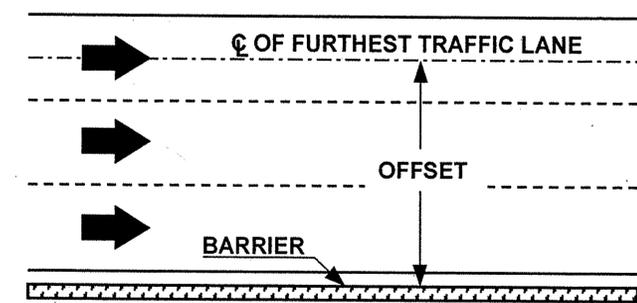
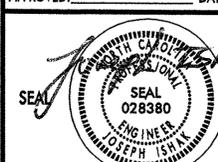
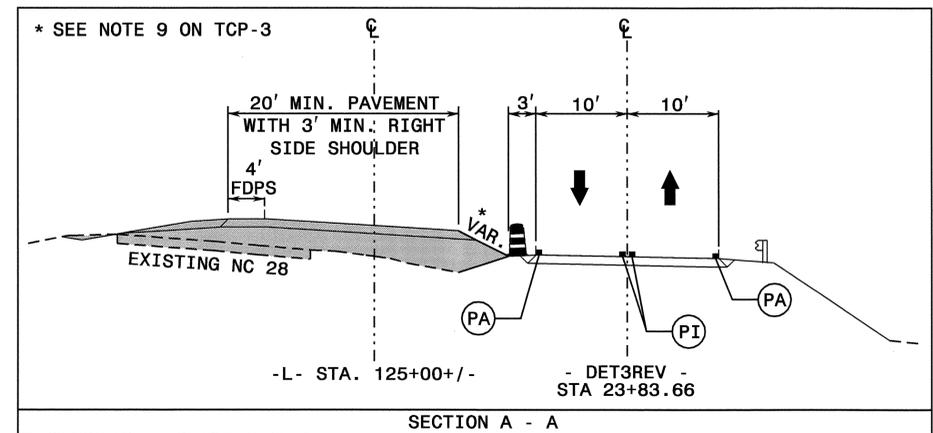
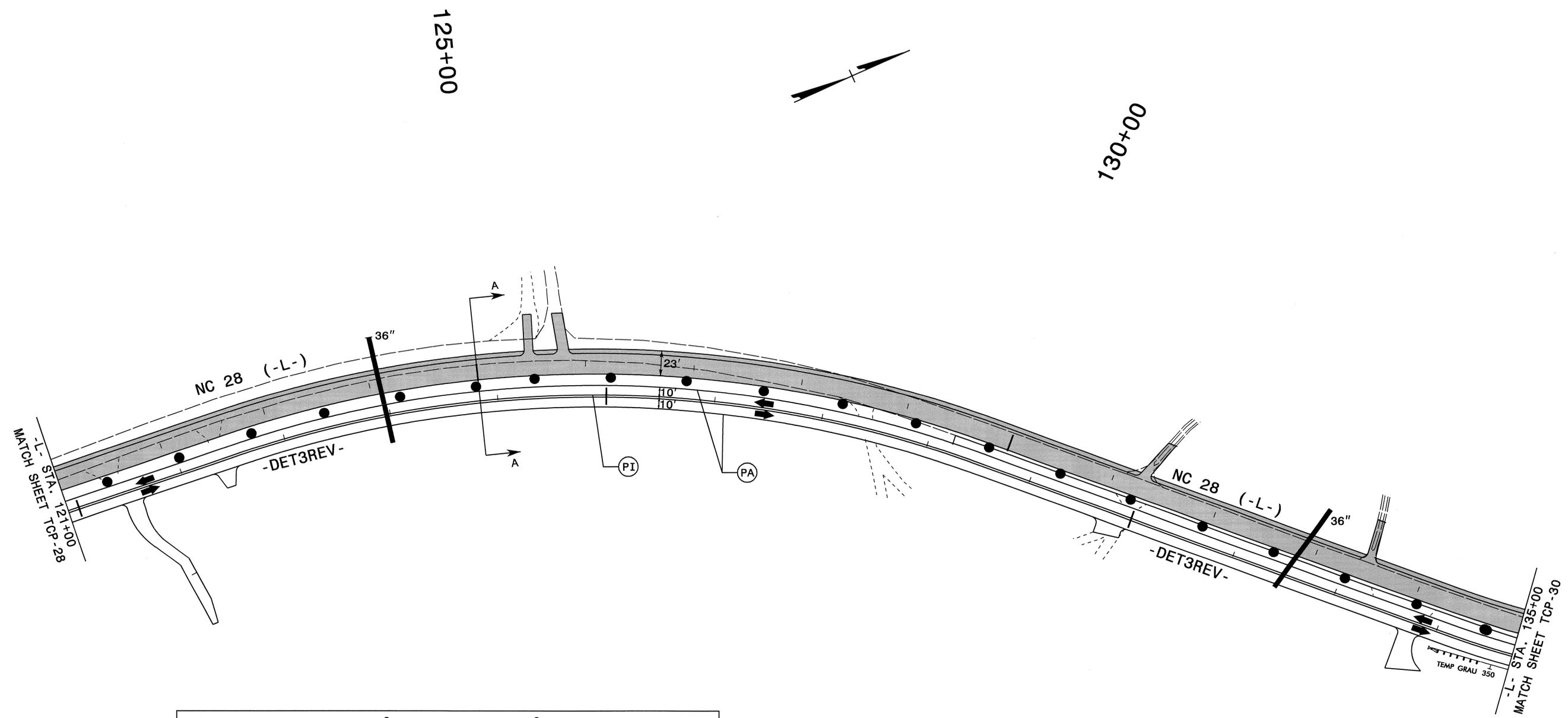


FIGURE B

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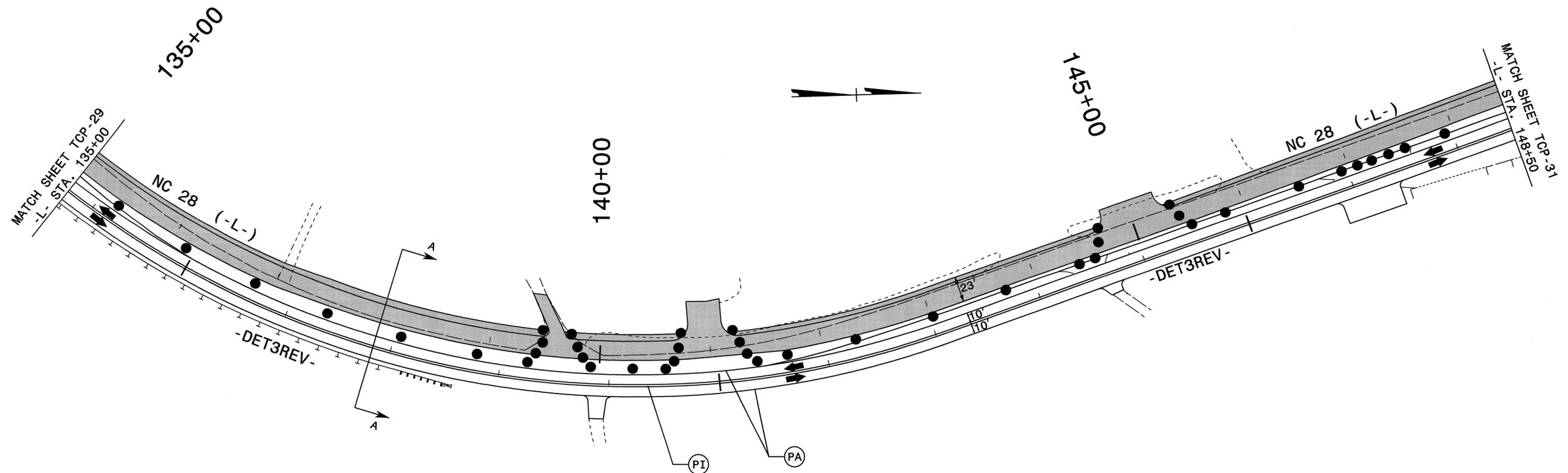
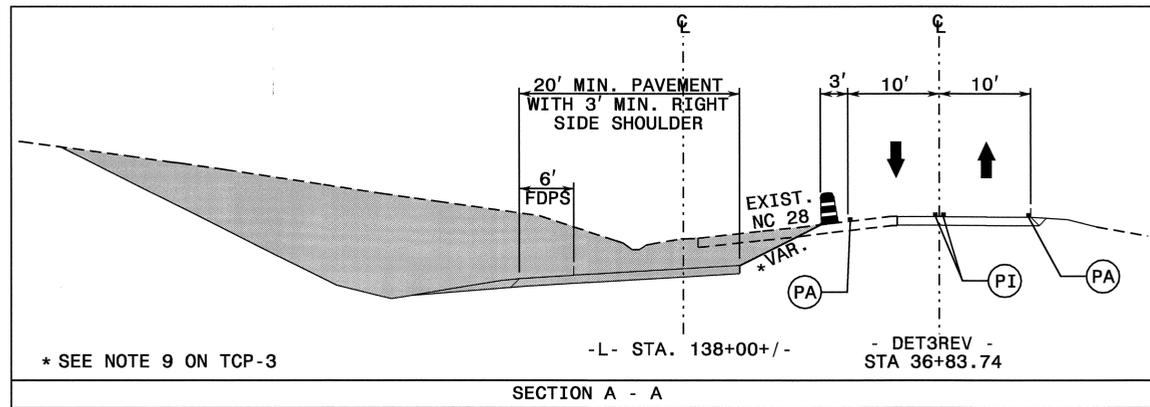
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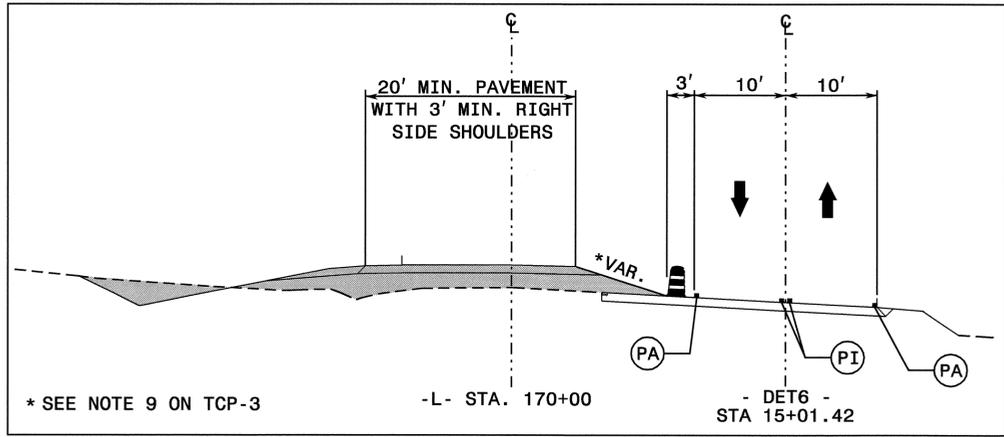
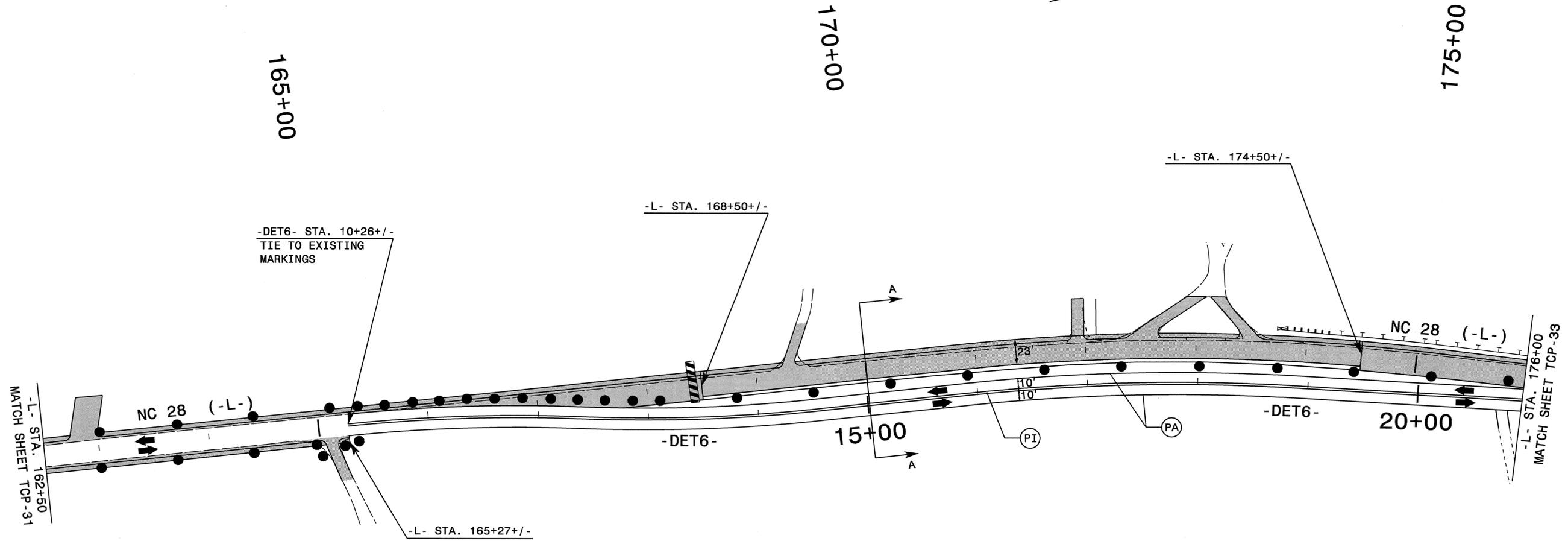
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REFER TO ROADWAY STANDARD DRAWING
1101.03, SH. 3 OF 9, FOR GENERAL NOTES
AND TRAFFIC CONTROL DEVICES ASSOCIATED
WITH SHIFTING TRAFFIC TO -DET3REV- AND
-DET6-.



* SEE NOTE 9 ON TCP-3

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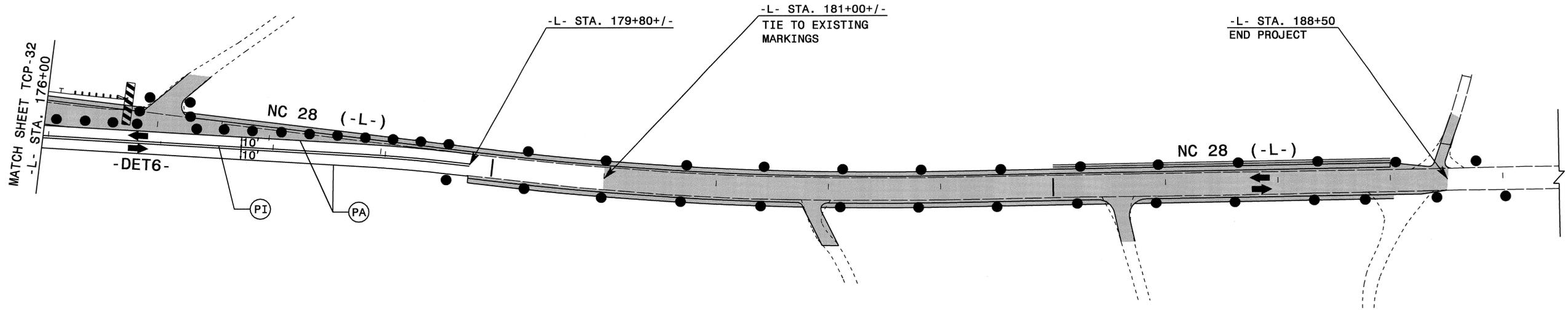
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REFER TO ROADWAY STANDARD DRAWING
1101.03, SH. 3 OF 9, FOR GENERAL NOTES
AND TRAFFIC CONTROL DEVICES ASSOCIATED
WITH SHIFTING TRAFFIC TO -DET6-.



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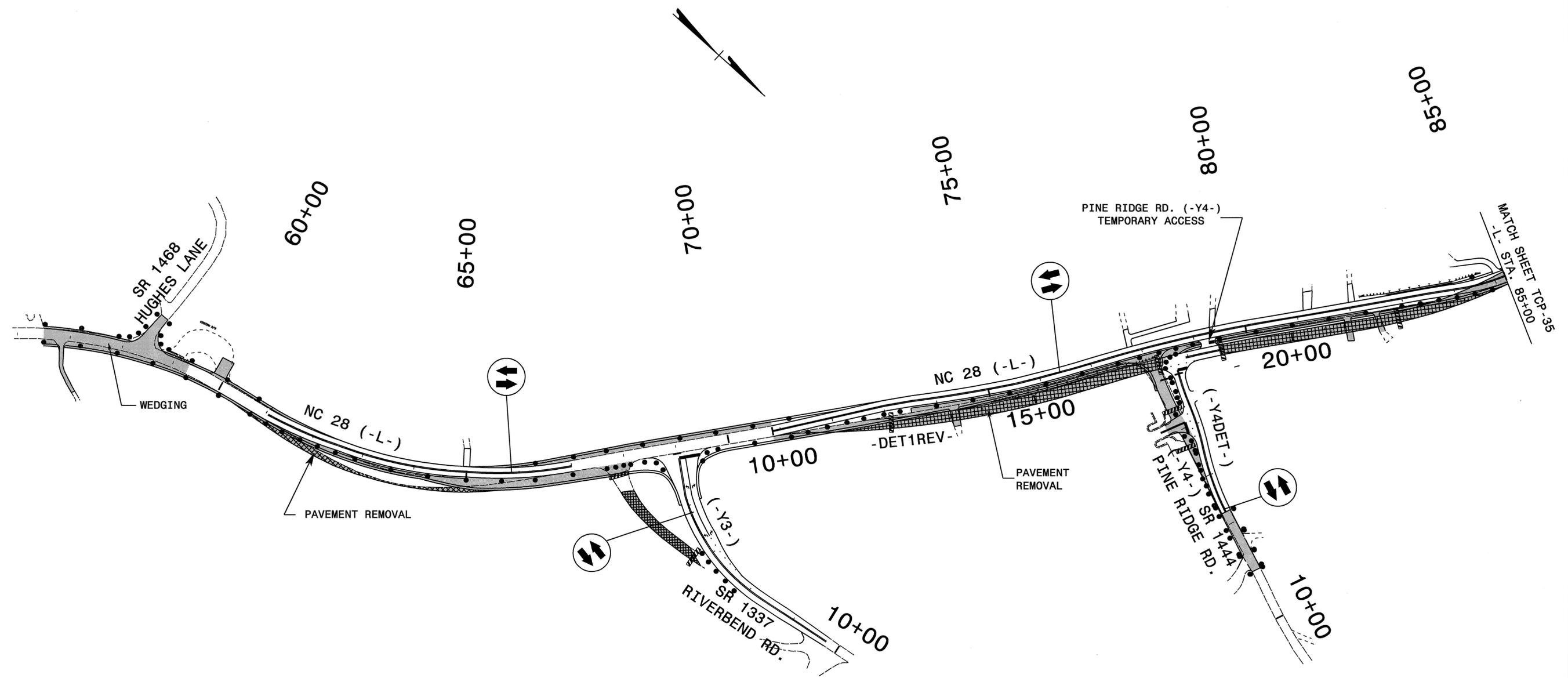
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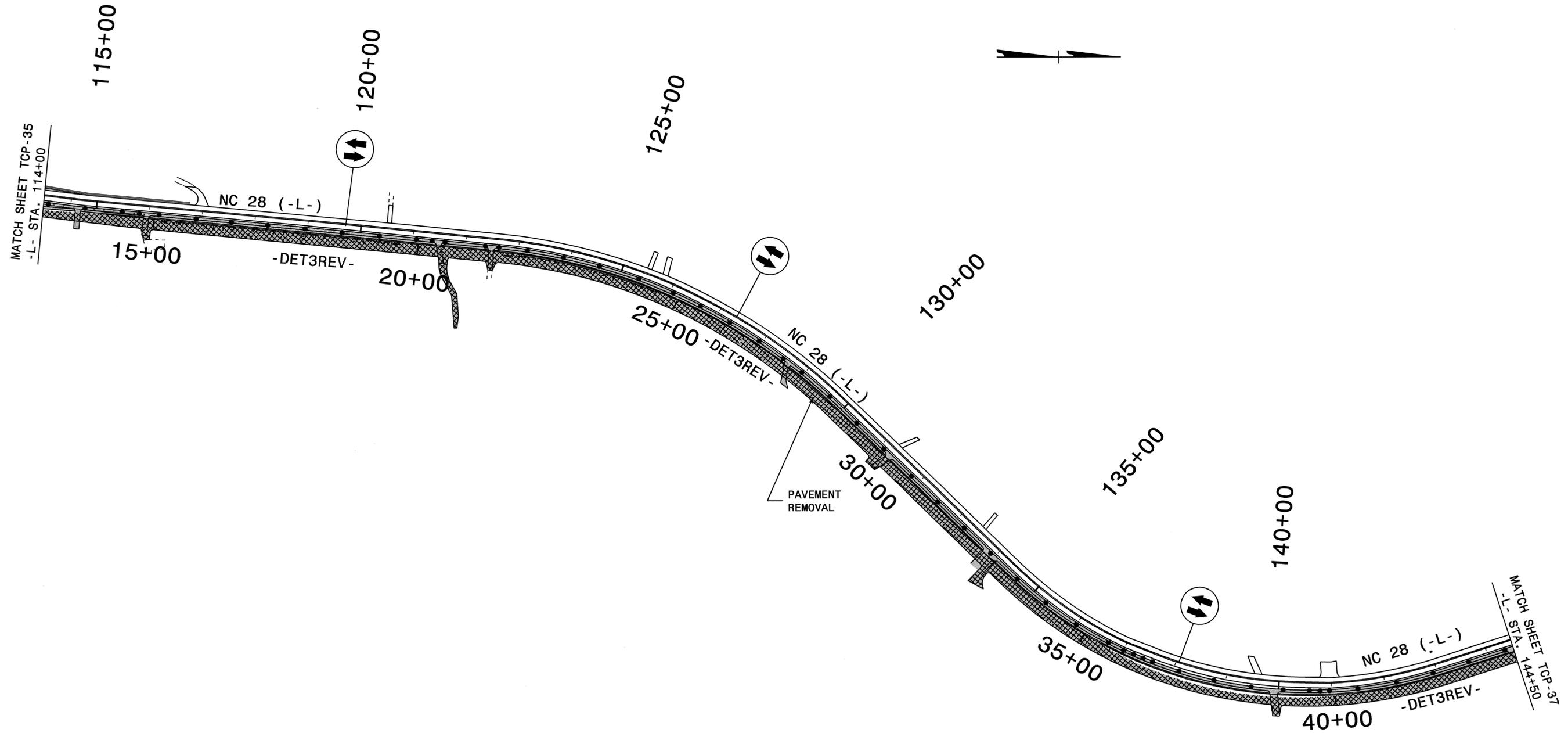
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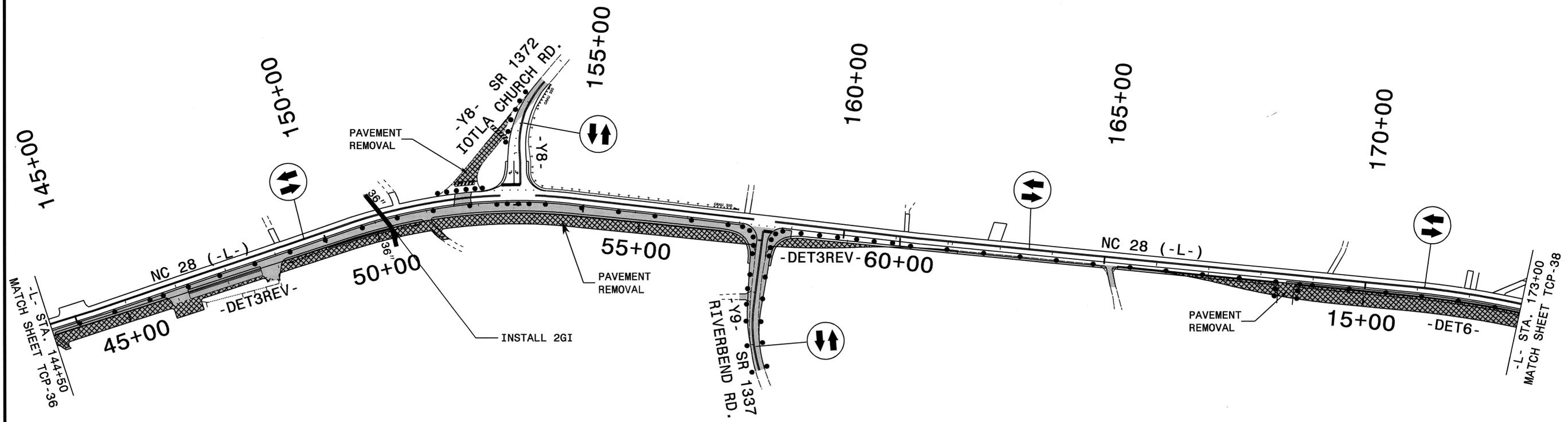
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R-2408B	TCP-36



02-FEB-2010 13:56
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 msteelman AT WZTC237453

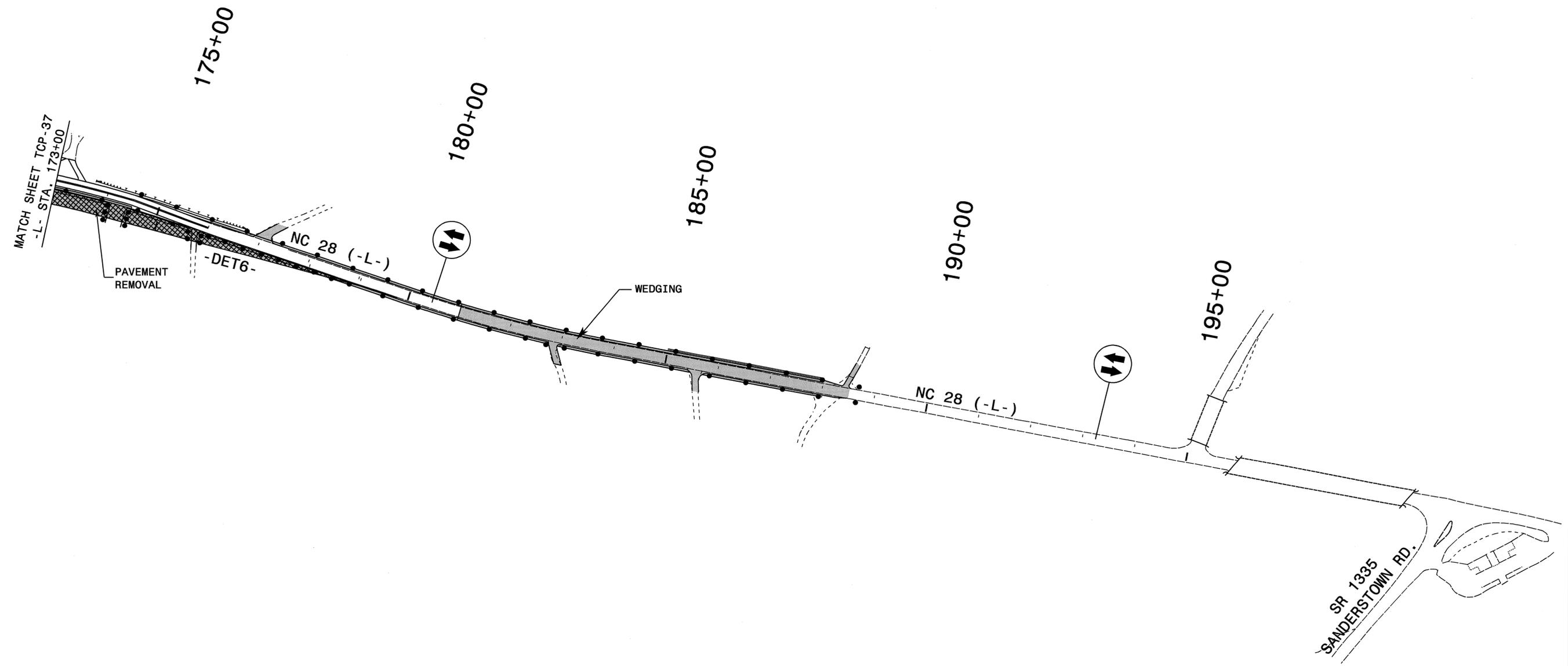
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02-FEB-2010 10:19
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 msteelman AT WZTC237453

APPROVED: _____	DATE: _____	PHASE 3 OVERVIEW											
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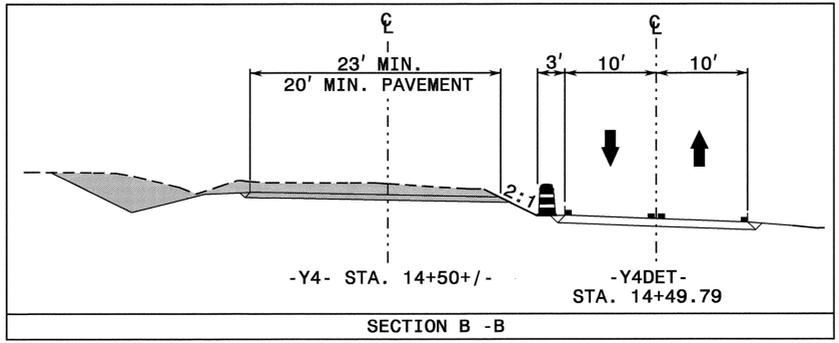
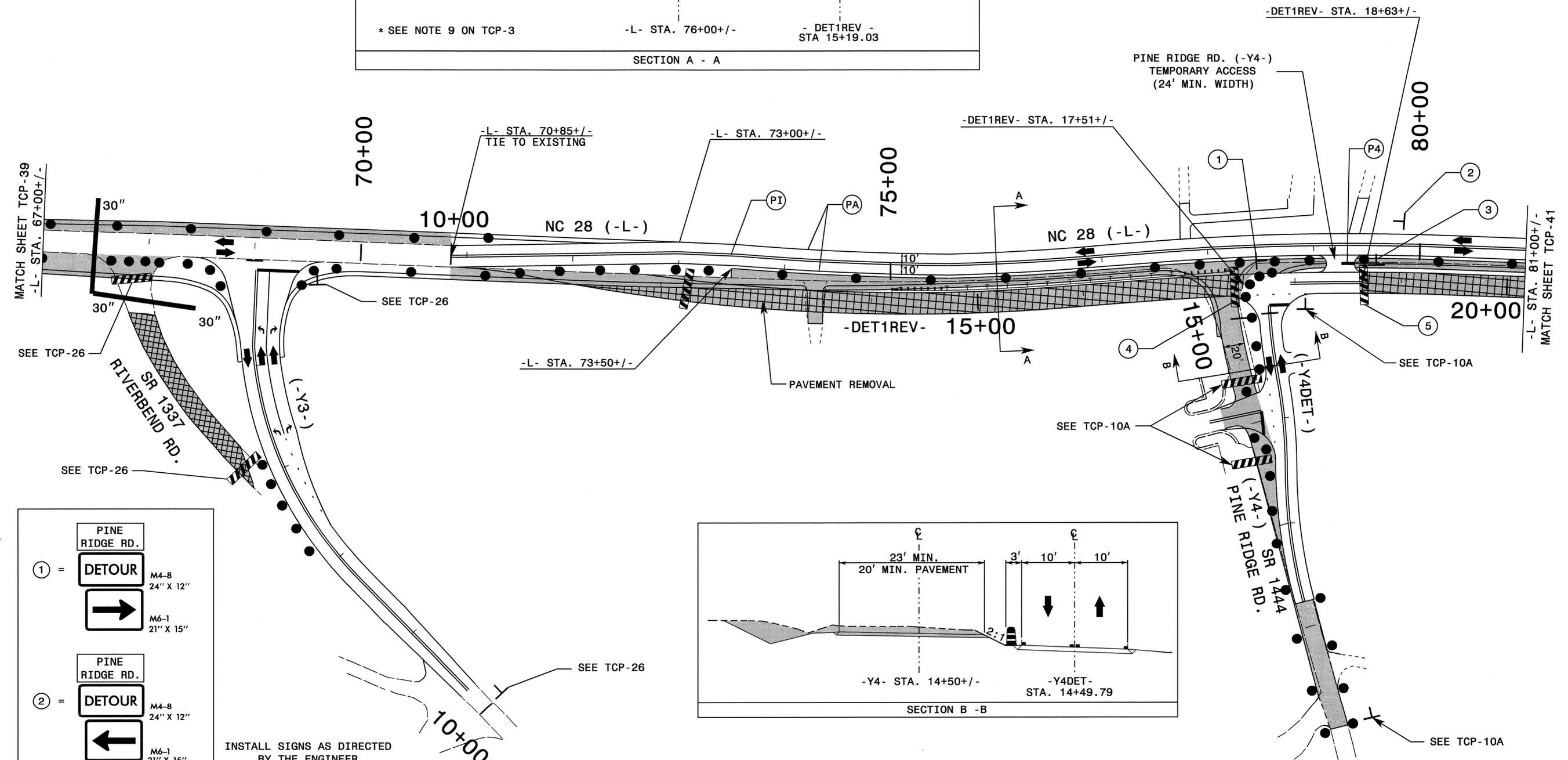
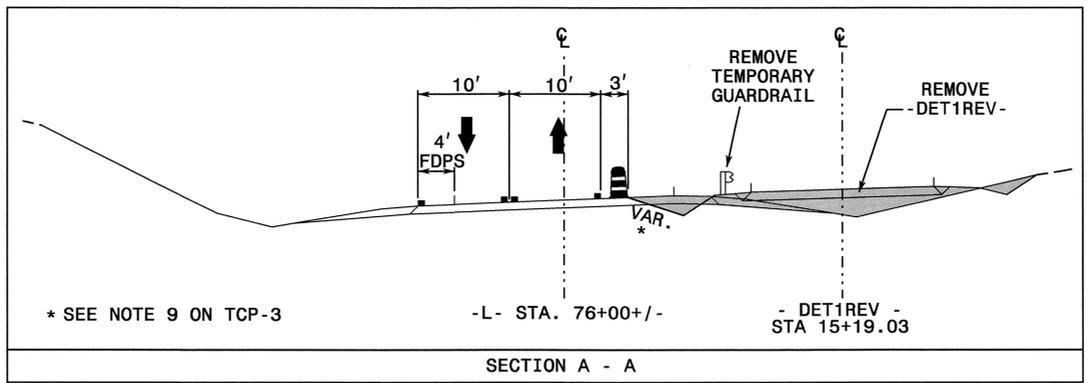
PROJ. REFERENCE NO.	SHEET NO.
R-2408B	TCP-38



02-FEB-2010 10:20
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 msteelman AT WZTC237453

APPROVED: _____	DATE: _____	PHASE 3 OVERVIEW	
SCALE: NONE	DATE: 4/2009		REVISIONS
DWG. BY: MHS	DESIGN BY: MHS		
REVIEWED BY: JLP			

REFER TO ROADWAY STANDARD DRAWING 1101.03, SH. 3 OF 9, FOR GENERAL NOTES AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH SHIFTING TRAFFIC TO LEFT SIDE OF -L-.



INSTALL SIGNS AS DIRECTED BY THE ENGINEER

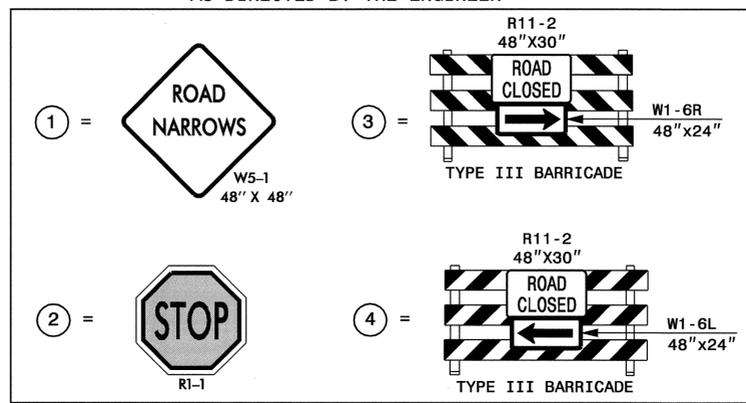
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		M6-1 21" X 15"
② =		M4-8 24" X 12"
		M6-1 21" X 15"
③ =		R1-1
④ =		R11-2 48" X 30"
⑤ =		R11-2 48" X 30"

W1-6L
48" X 24"

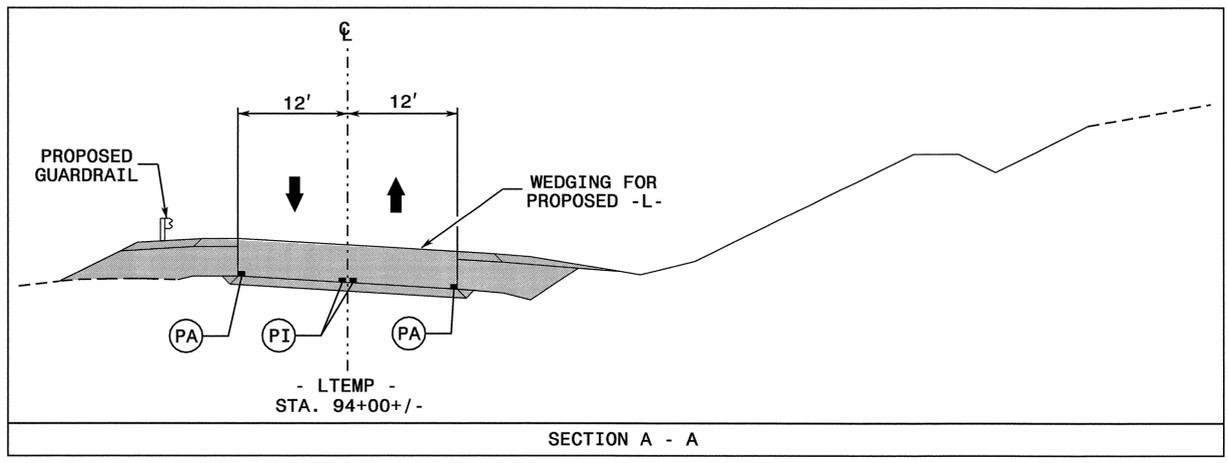
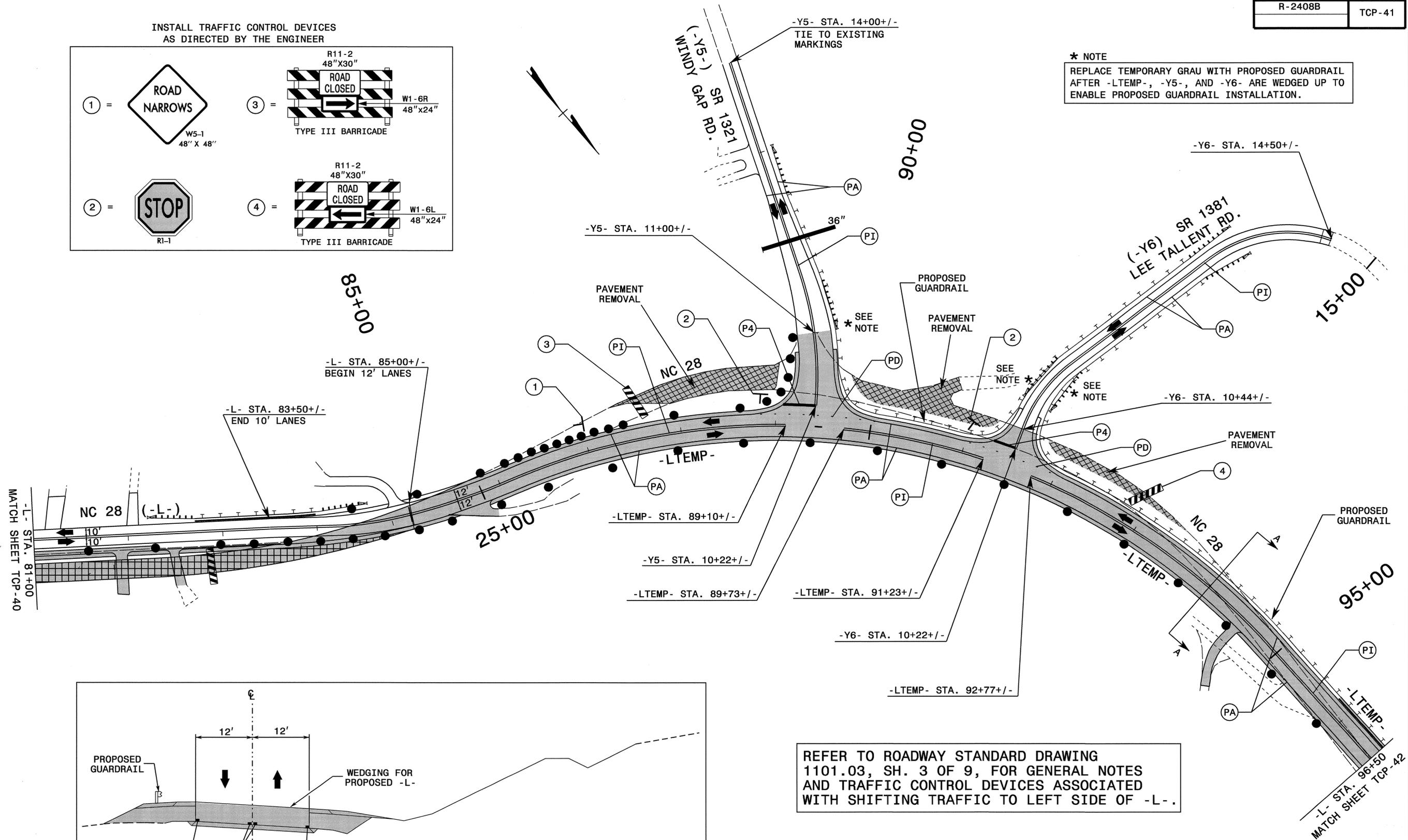
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REVIEWED BY: JLP											

02-FEB-2010 13:06 \\dot\dfs\o\o\o\Projects-R\2408B\Tr-offic\Control\TCP-R-2408B.TCP DESIGN-R-2408B.TC.TCP-40.dgn msteelman AT WZTC237453

INSTALL TRAFFIC CONTROL DEVICES
AS DIRECTED BY THE ENGINEER



*** NOTE**
REPLACE TEMPORARY GRAU WITH PROPOSED GUARDRAIL
AFTER -LTEMP-, -Y5-, AND -Y6- ARE WEDGED UP TO
ENABLE PROPOSED GUARDRAIL INSTALLATION.

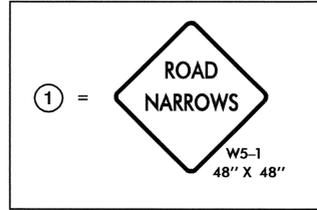


REFER TO ROADWAY STANDARD DRAWING
1101.03, SH. 3 OF 9, FOR GENERAL NOTES
AND TRAFFIC CONTROL DEVICES ASSOCIATED
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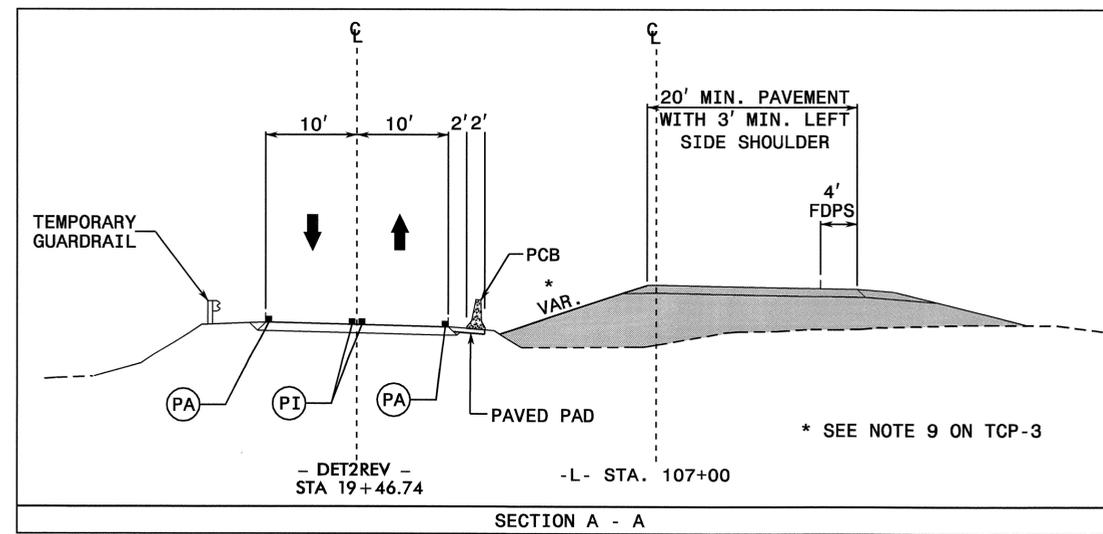
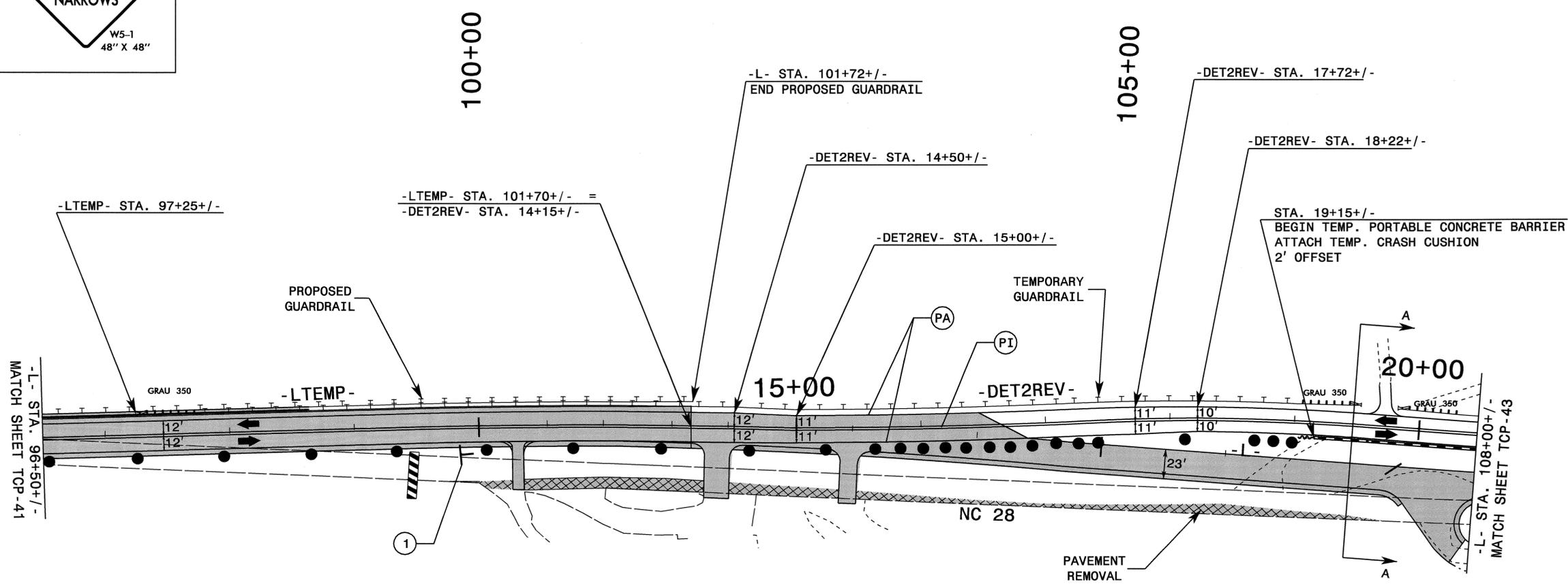
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msteelman AT WZTC237453

APPROVED: _____ DATE: _____	PHASE 3 DETAIL		REVISIONS	
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INSTALL TRAFFIC CONTROL DEVICES
AS DIRECTED BY THEN ENGINEER



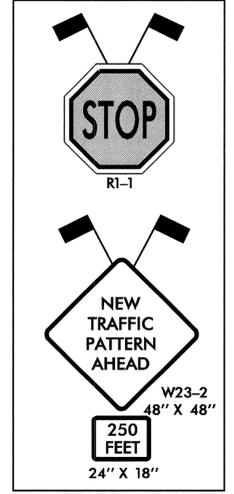
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1101.03, SH. 3 OF 9, FOR GENERAL NOTES
AND TRAFFIC CONTROL DEVICES ASSOCIATED
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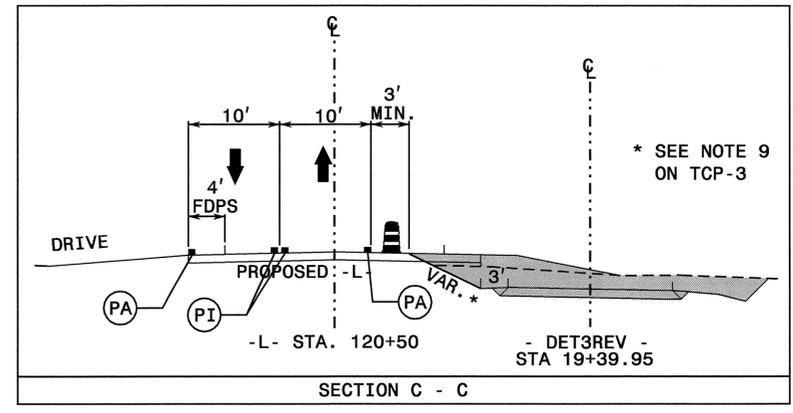
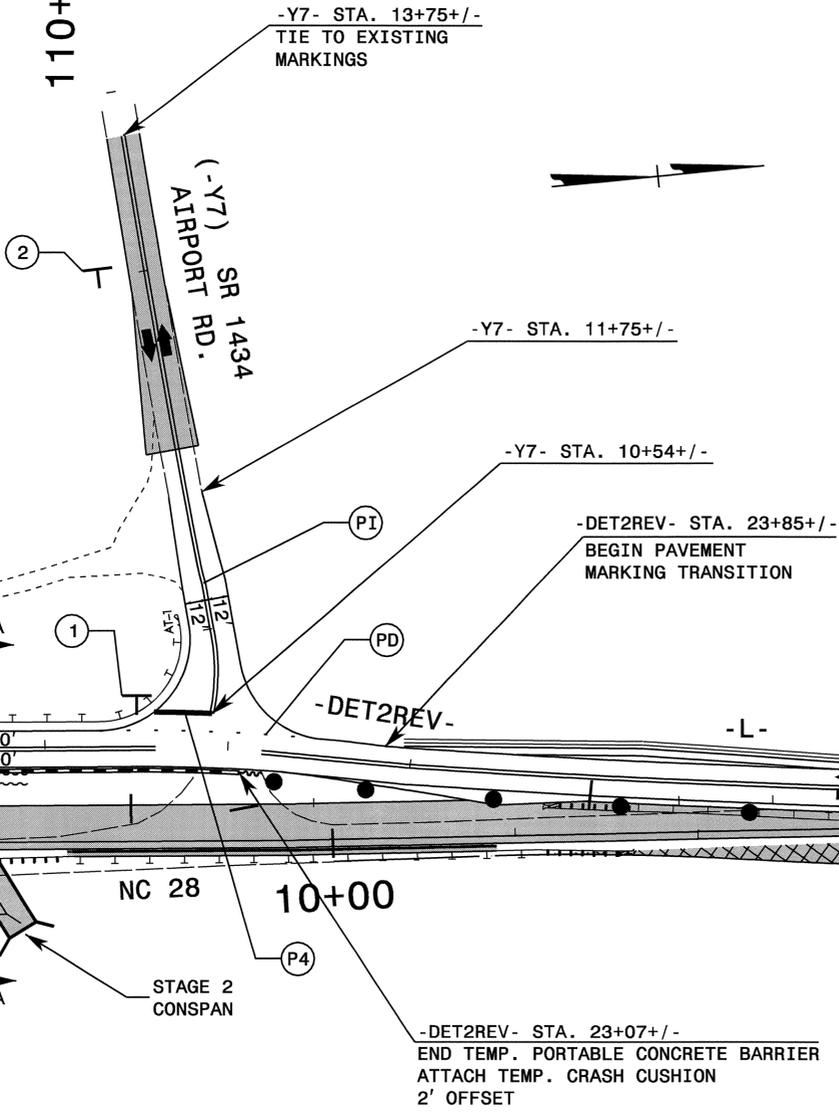
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DESIGN BY: MHS		
REVIEWED BY: JLP		CADD FILE

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INSTALL SIGNS AS DIRECTED BY THE ENGINEER



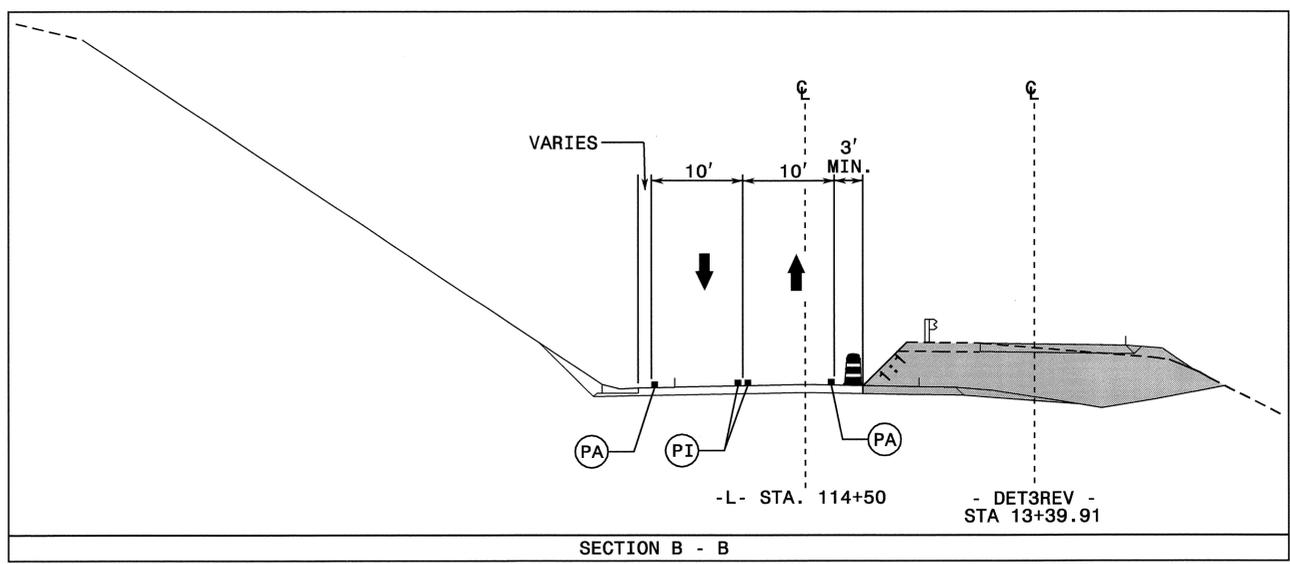
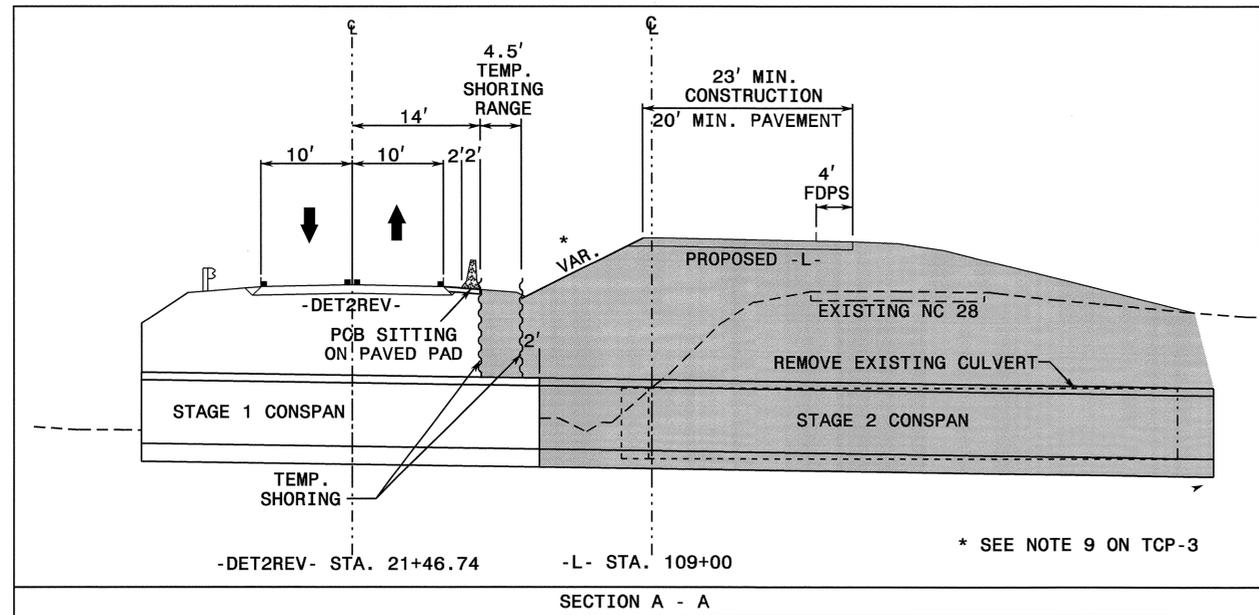
110+00



MATCH SHEET TCP-42
-L- STA. 108+00

MATCH SHEET TCP-44
-L- STA. 121+00

TEMPORARY SHORING FOR PROPOSED CONSPAN CULVERT CONSTRUCTION



APPROVED: _____ DATE: _____



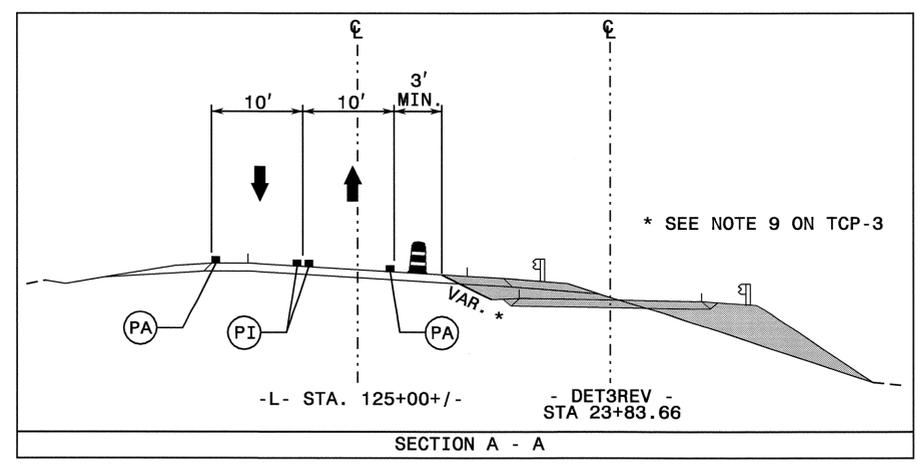
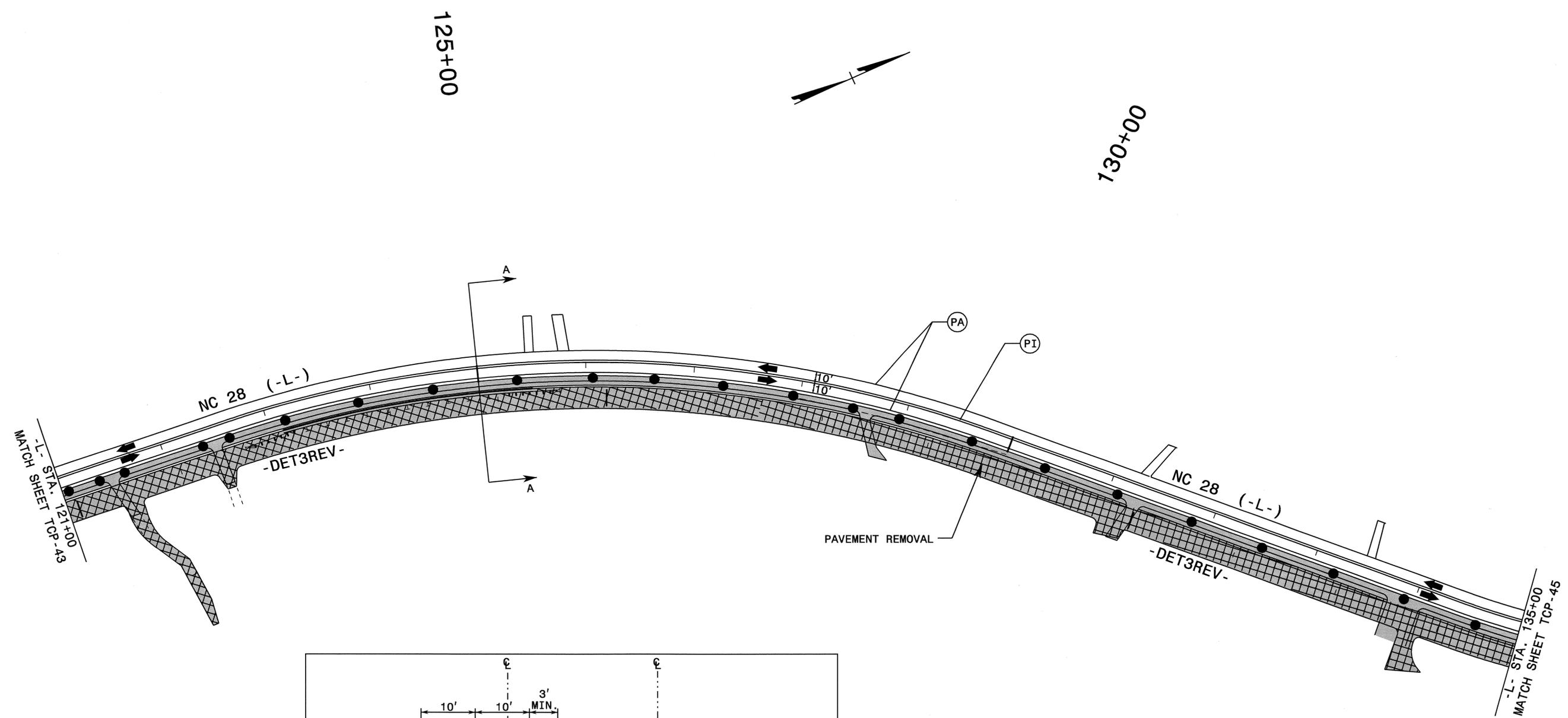
PHASE 3 DETAIL

SCALE: NONE
DATE: 5/2009
DWG. BY: MHS
DESIGN BY: MHS
REVIEWED BY: JLP



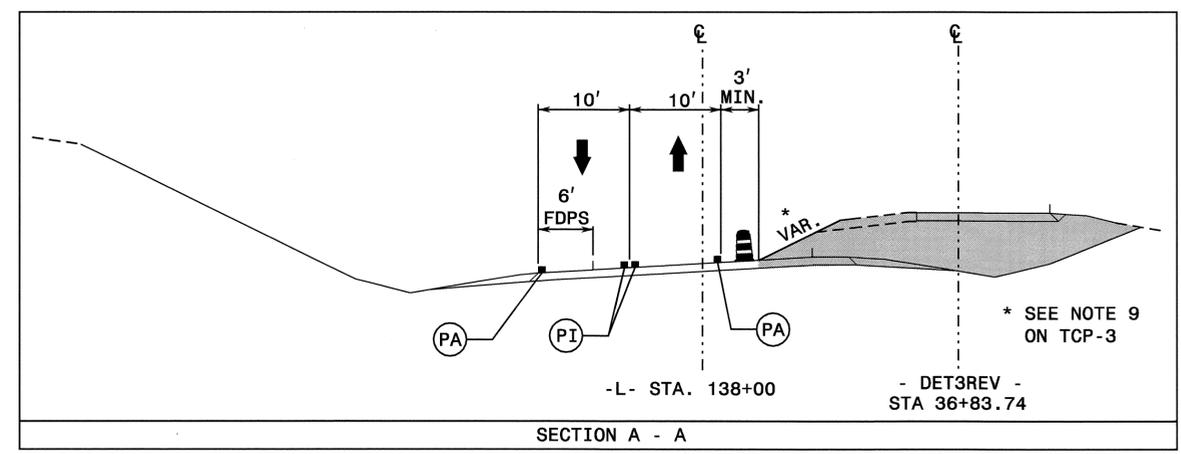
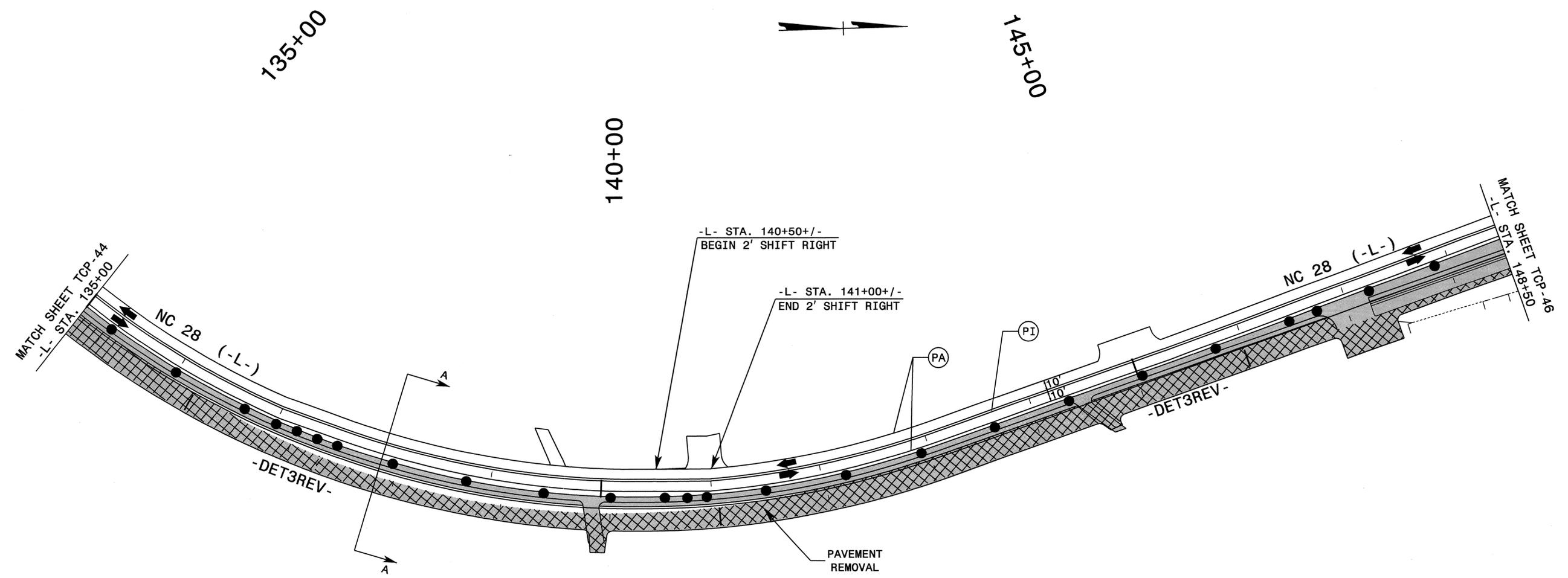
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02-FEB-2010 14:01
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 msteelman AT WZTC237453

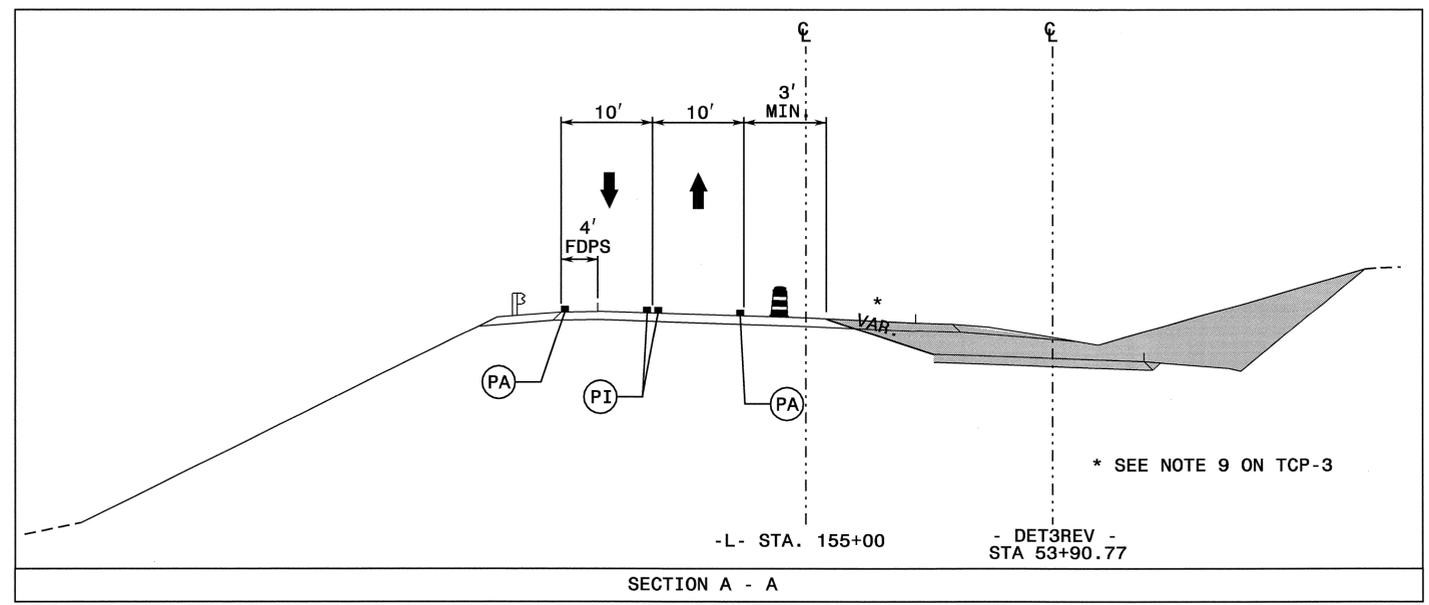
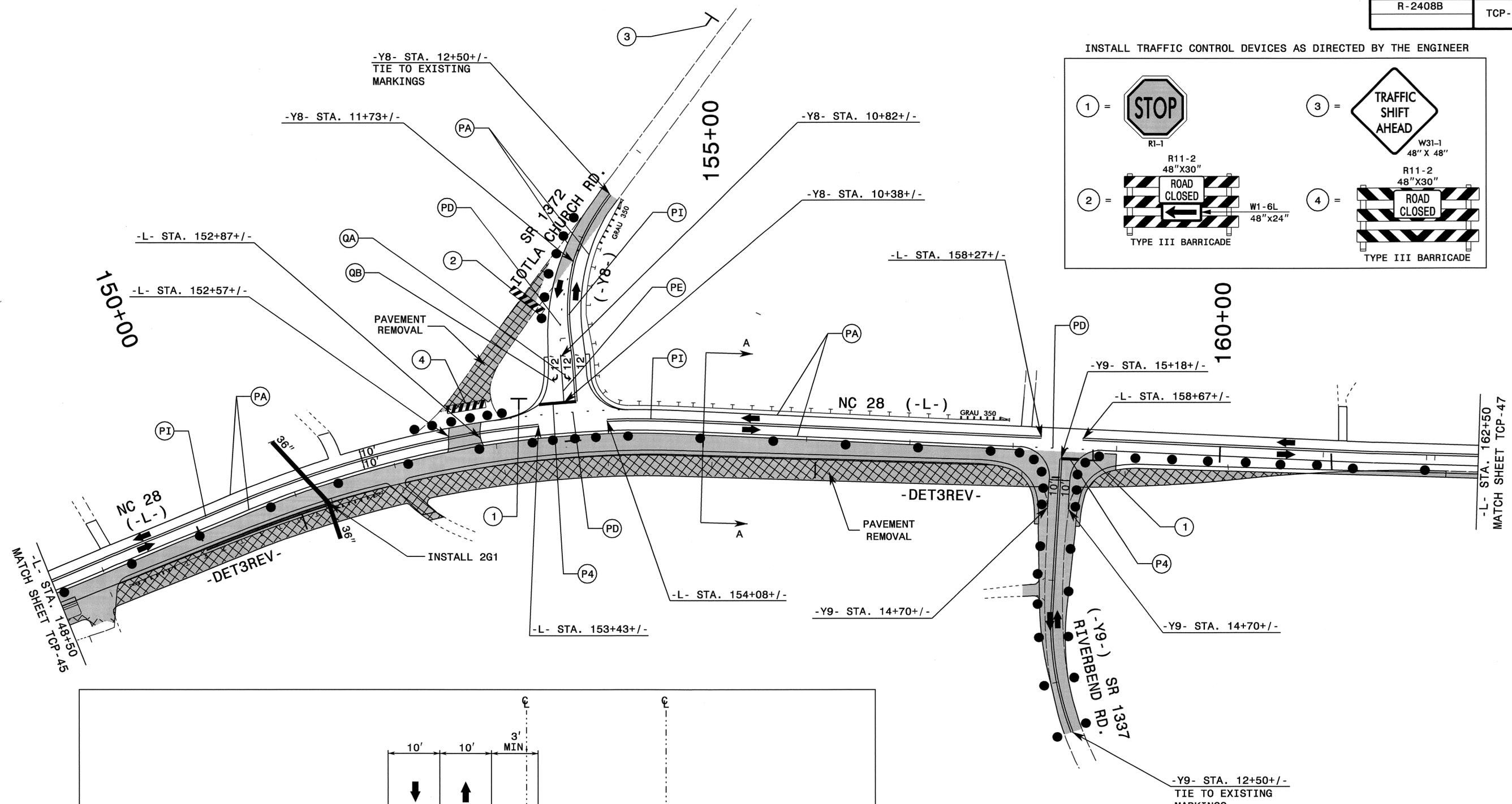
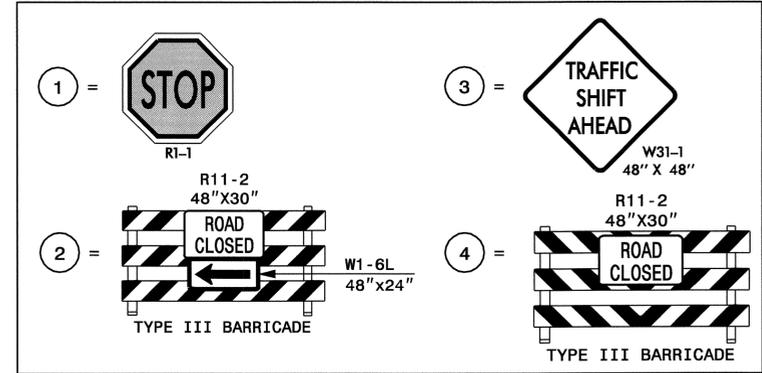
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02-FEB-2010 14:01
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 msteelman AT WZTC237453

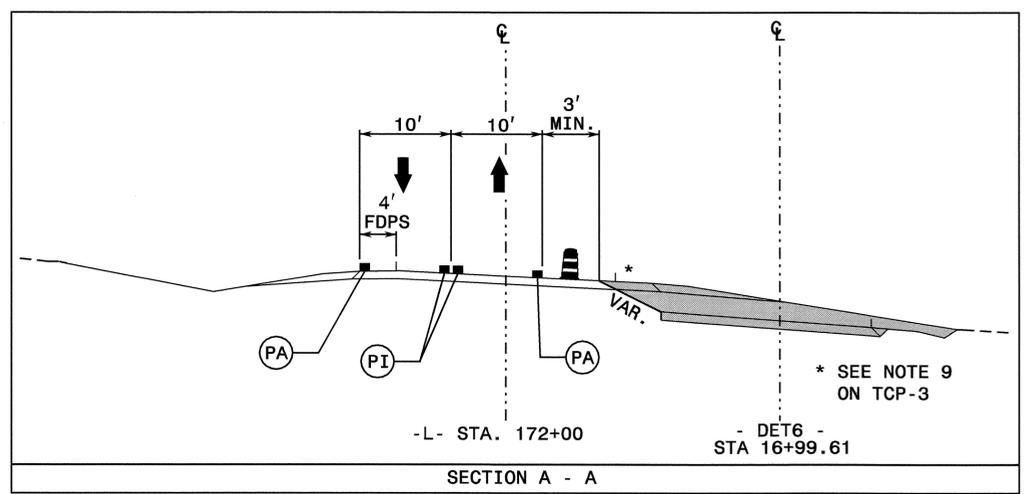
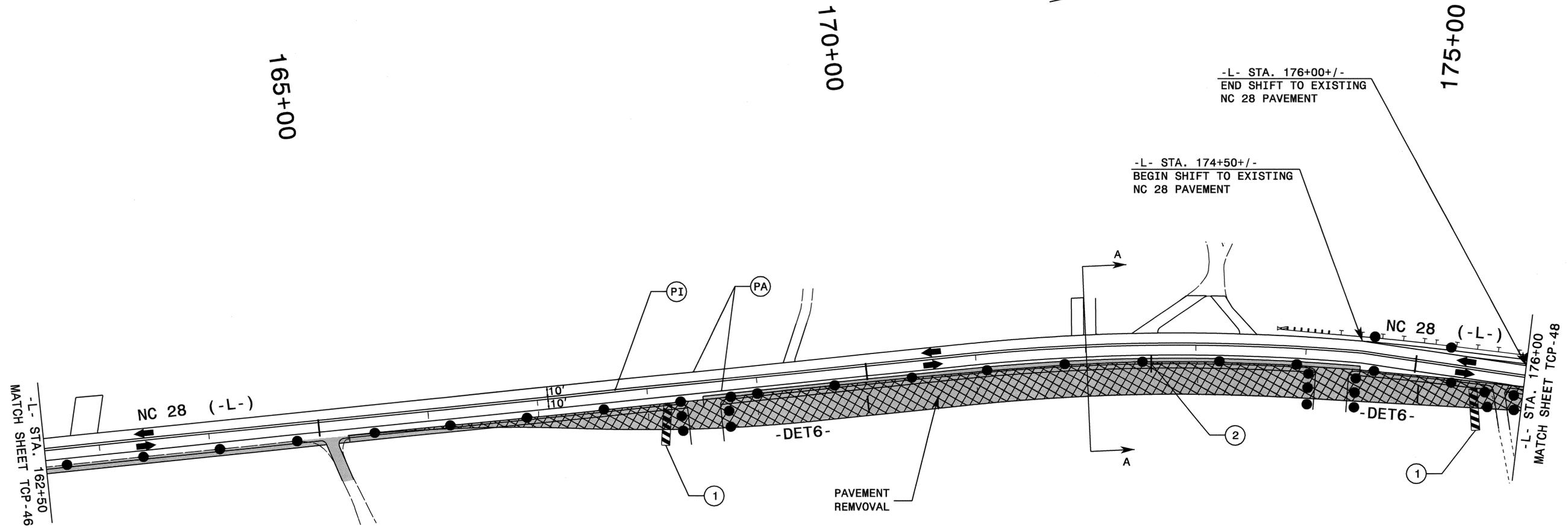
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INSTALL TRAFFIC CONTROL DEVICES AS DIRECTED BY THE ENGINEER

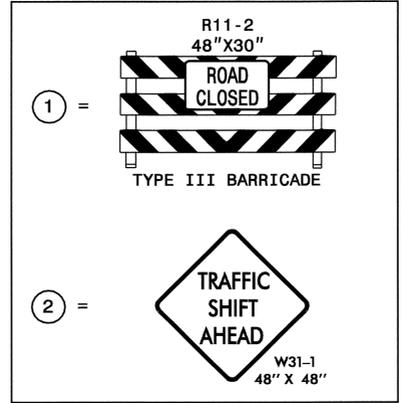


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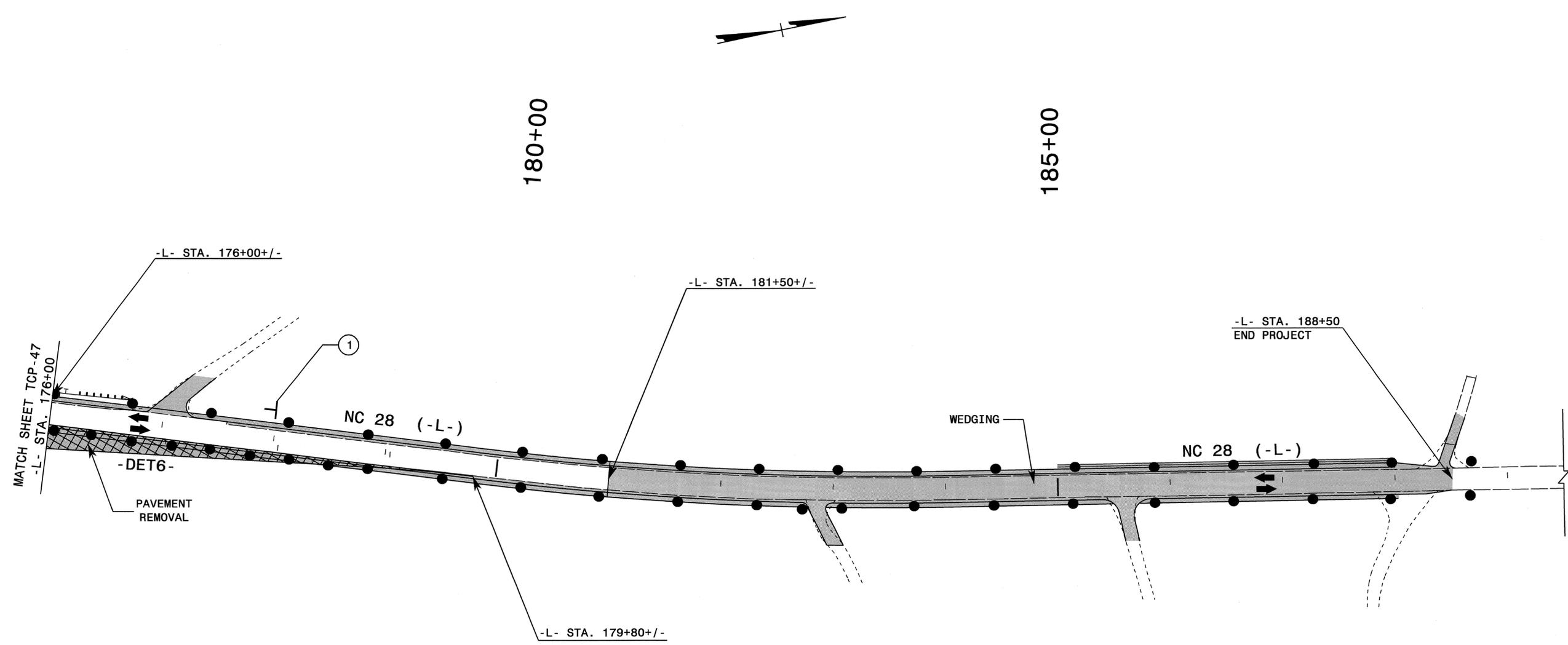


INSTALL TRAFFIC CONTROL DEVICES AS DIRECTED BY THE ENGINEER



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 AT WZTC237453
 msteelman

APPROVED: 	DATE: 2/2/10	PHASE 3 DETAIL	
SCALE: NONE	DATE: 5/2009		
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REVIEWED BY: JLP			CADD FILE



INSTALL SIGN AS DIRECTED BY THE ENGINEER

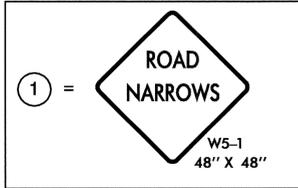
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 mstebindn AT WZTC237455

APPROVED:	DATE:	PHASE 3 DETAIL	
			
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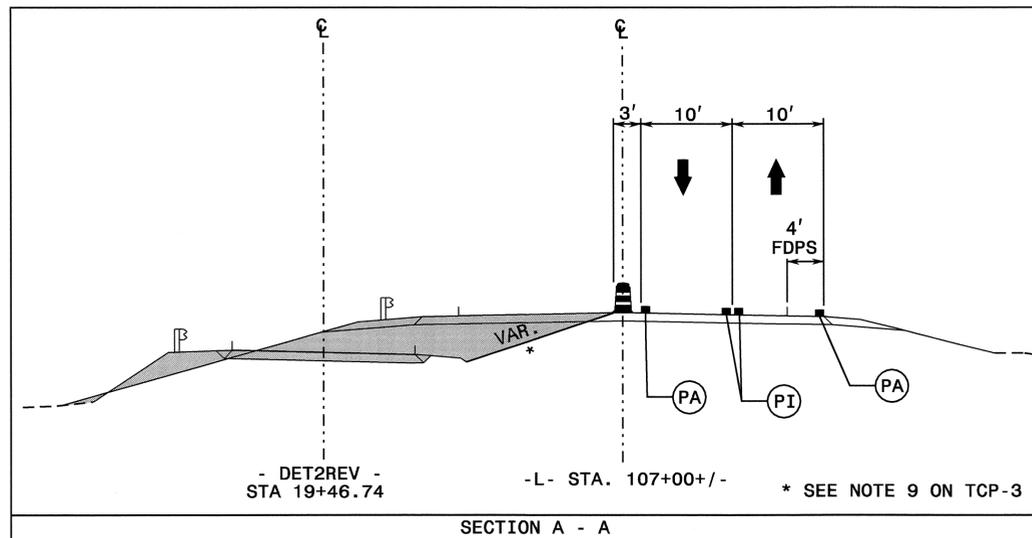
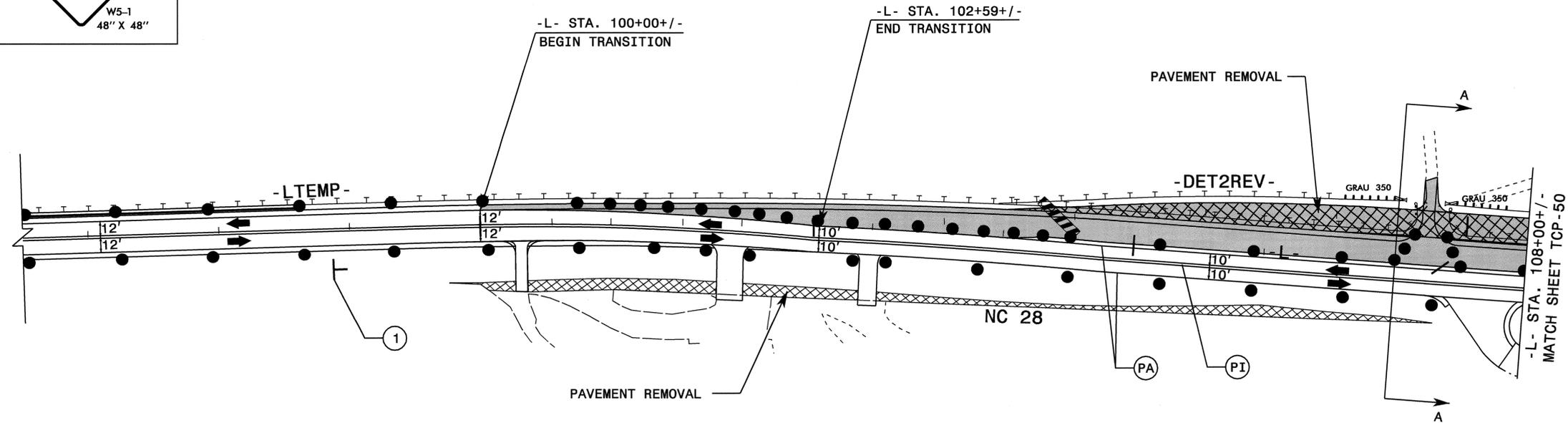
REFER TO ROADWAY STANDARD DRAWING 1101.03, SH. 3 OF 9, FOR GENERAL NOTES AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH SHIFTING TRAFFIC TO RIGHT SIDE OF -L-.

INSTALL SIGN AS DIRECTED BY THE ENGINEER



100+00

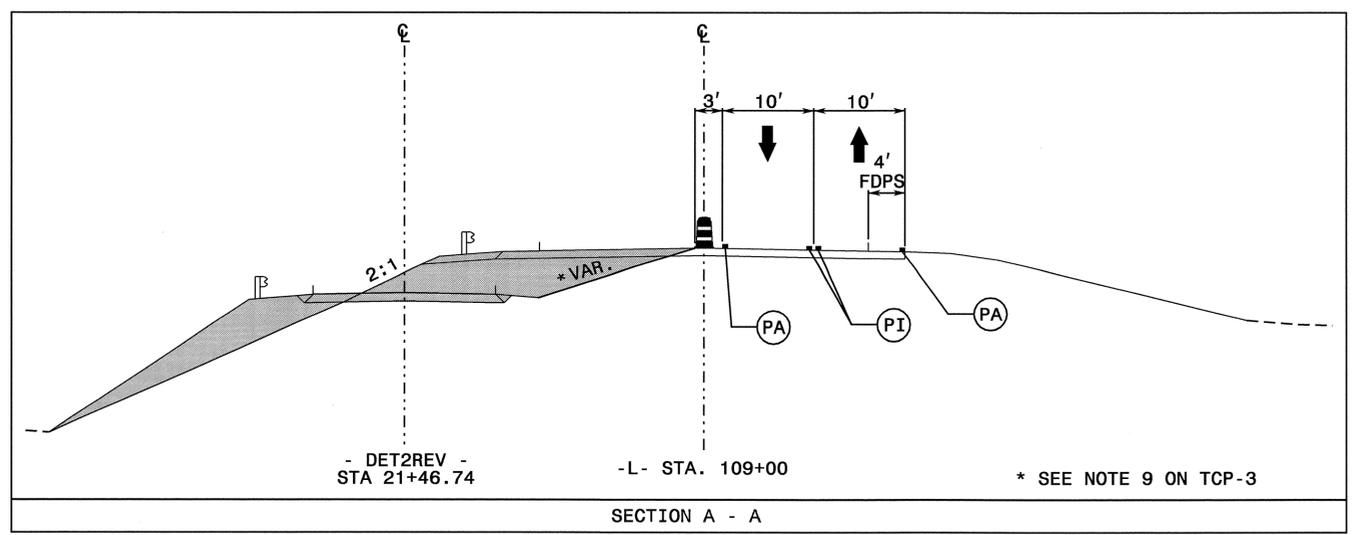
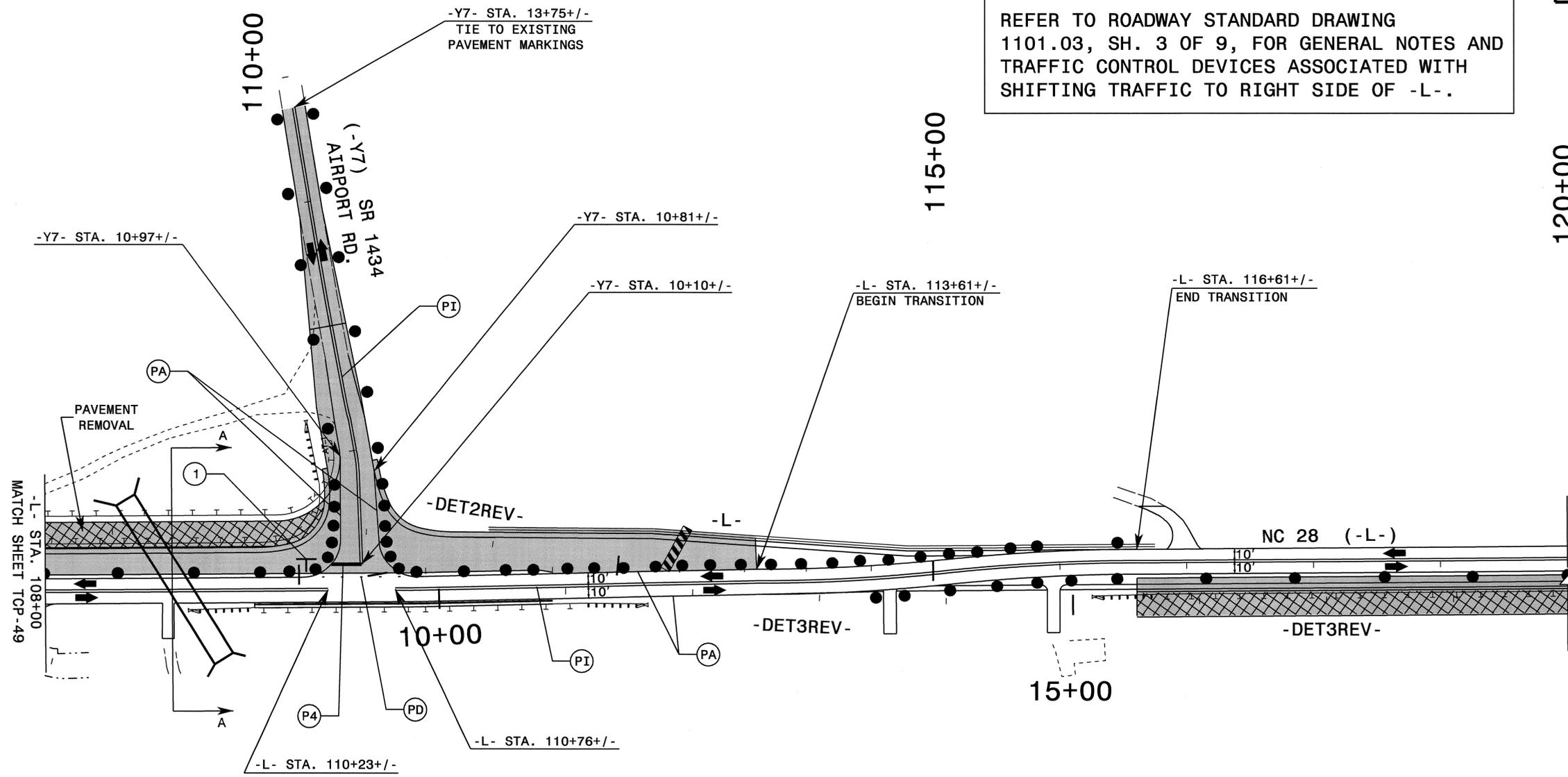
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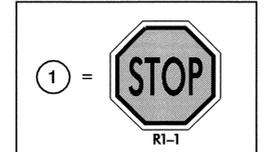
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APPROVED: _____ DATE: _____	PHASE 3 DETAIL	
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DATE: 5/2009		
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REVIEWED BY: JLP		

REFER TO ROADWAY STANDARD DRAWING 1101.03, SH. 3 OF 9, FOR GENERAL NOTES AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH SHIFTING TRAFFIC TO RIGHT SIDE OF -L-.



INSTALL SIGN AS DIRECTED BY THE ENGINEER

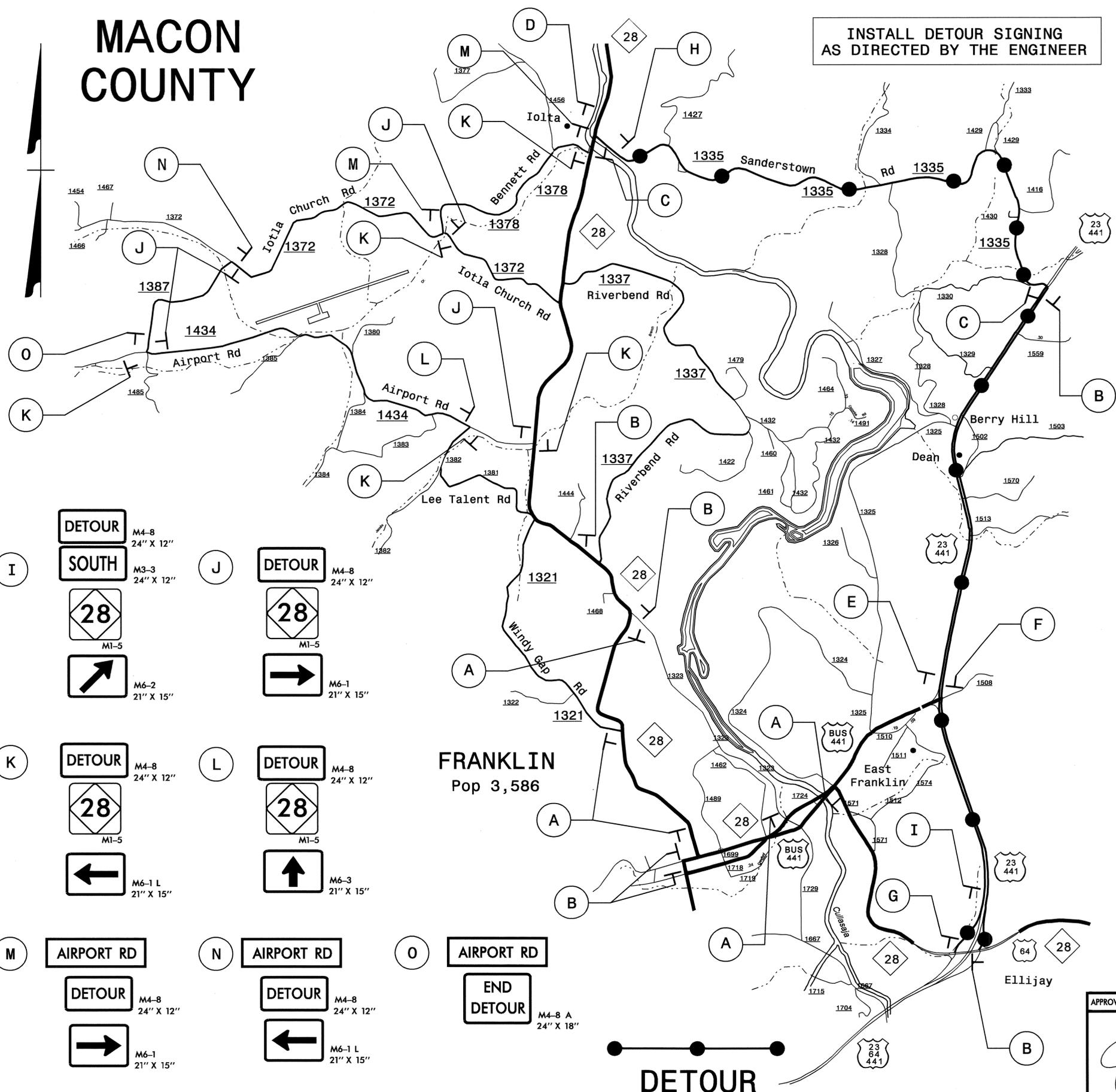


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 msteelman AT WZTC237453

MACON COUNTY

INSTALL DETOUR SIGNING
AS DIRECTED BY THE ENGINEER



I	DETOUR M4-8 24" X 12" SOUTH M3-3 24" X 12" 28 M1-5  M6-2 21" X 15"	J	DETOUR M4-8 24" X 12" 28 M1-5  M6-1 21" X 15"
K	DETOUR M4-8 24" X 12" 28 M1-5  M6-1 L 21" X 15"	L	DETOUR M4-8 24" X 12" 28 M1-5  M6-3 21" X 15"
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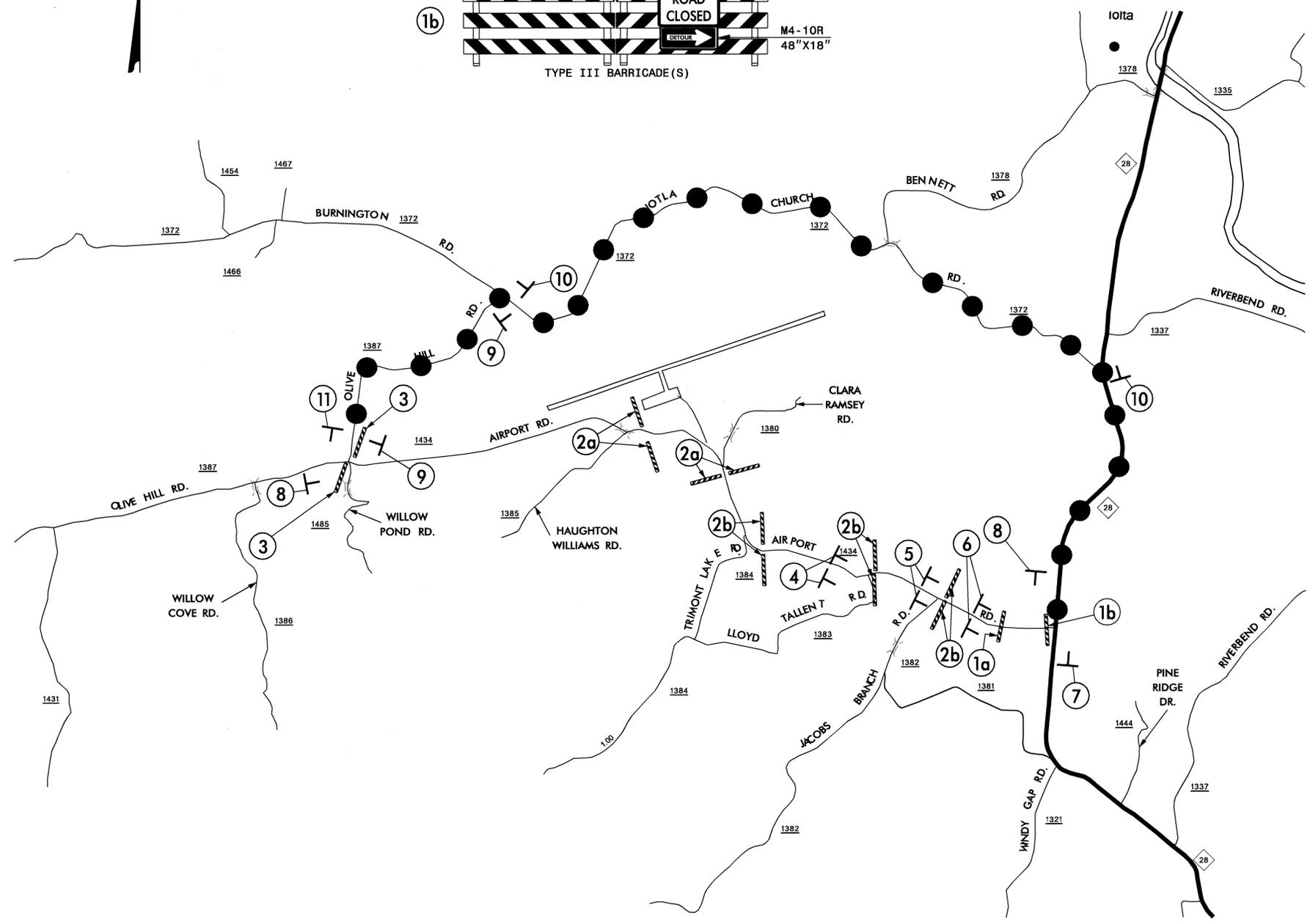
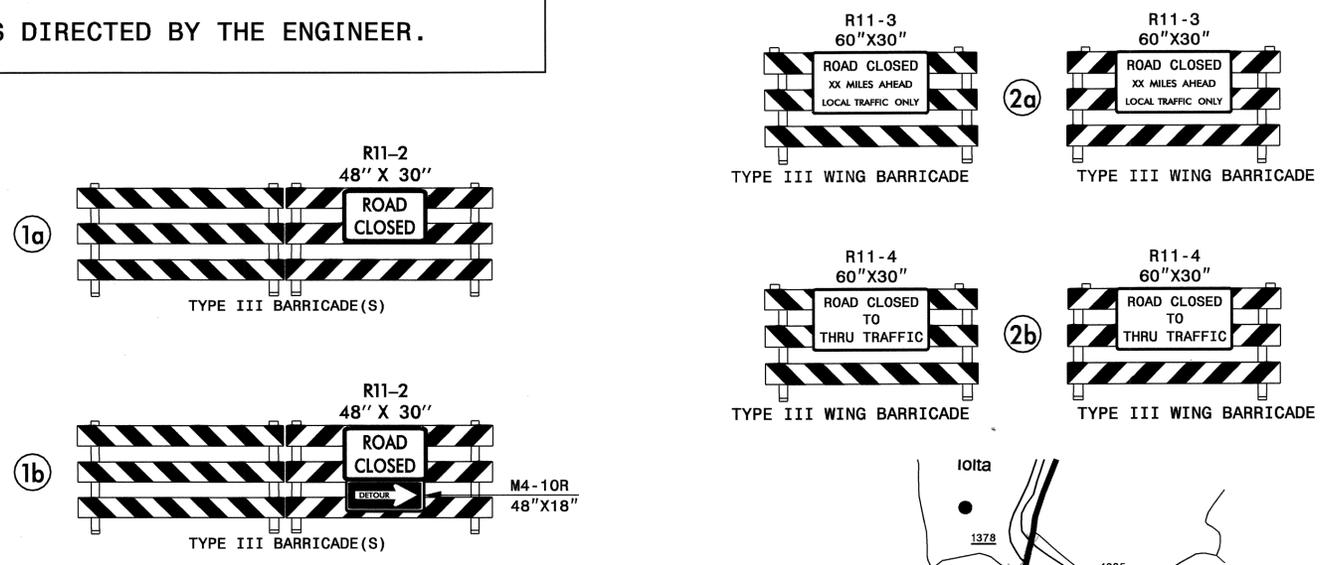
A	DETOUR M4-8 24" X 12" NORTH M3-1 24" X 12" 28 M1-5  M6-1 21" X 15"	B	DETOUR M4-8 24" X 12" NORTH M3-1 24" X 12" 28 M1-5  M6-1 L 21" X 15"
C	DETOUR M4-8 24" X 12" SOUTH M3-3 24" X 12" 28 M1-5  M6-1 21" X 15"	D	DETOUR M4-8 24" X 12" SOUTH M3-3 24" X 12" 28 M1-5  M6-1 L 21" X 15"
E	DETOUR M4-8 24" X 12" SOUTH M3-3 24" X 12" 28 M1-5  M6-3 21" X 15"	F	DETOUR M4-8 24" X 12" NORTH M3-1 24" X 12" 28 M1-5  M6-3 21" X 15"
G	END DETOUR M4-8 A 24" X 18" SOUTH M3-3 24" X 12" 28 M1-5	H	END DETOUR M4-8 A 24" X 18" NORTH M3-1 24" X 12" 28 M1-5

02-FEB-2010 10:34 P:\proj\TIP\Projects-R\2408B\Traffic\TrafficControl\TCP\R-2408B.TCP DESIGN\R-2408B.TC.TCP-52.dgn
 mst\selman - AT WZ10237453

APPROVED: 	DATE: _____	PHASE 3 DETOUR SIGNING SETUP	
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DWG. BY: _____			

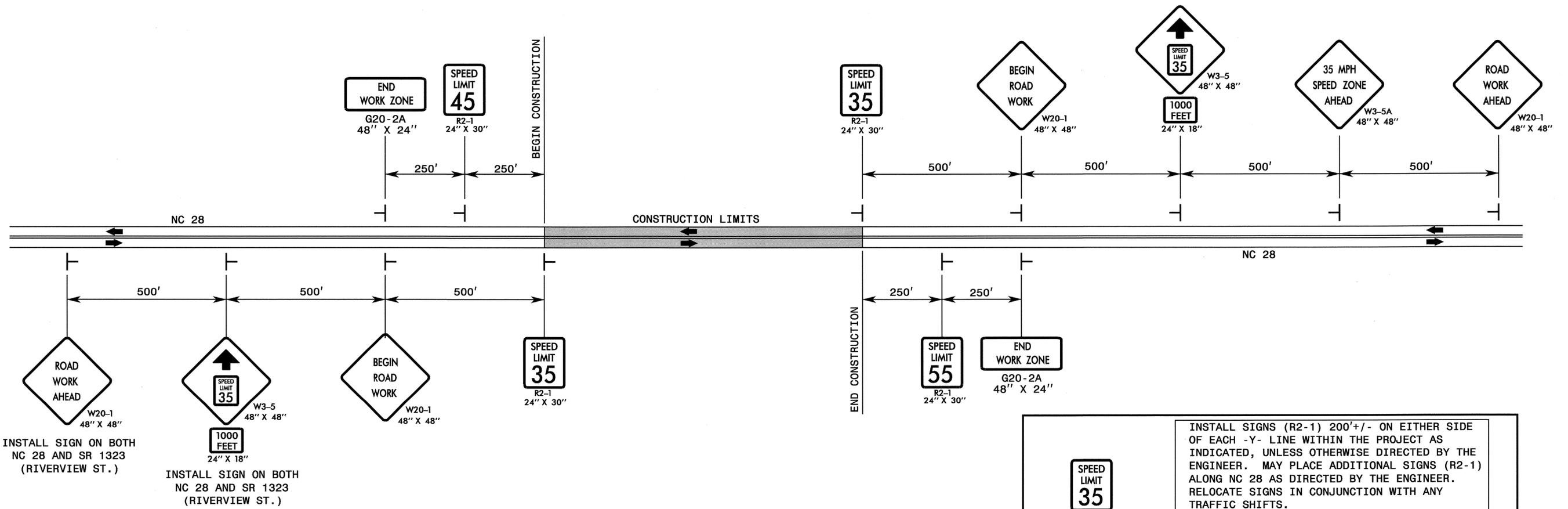
*REFER TO GENERAL NOTES AND ROAD CLOSURE SIGN SPACINGS AS SHOWN ON ROADWAY STANDARD DRAWING 1101.03, SHEETS 1 AND 2 OF .

*DETOUR SIGNING TO BE PLACED AS DIRECTED BY THE ENGINEER.



02-FEB-2010 10:35
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 msteelman AT WZ TC237453

APPROVED: _____	DATE: _____	AIRPORT RD. ROAD CLOSURE AND DETOUR SIGNING											
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REVISIONS													
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DATE: 2/2/10													

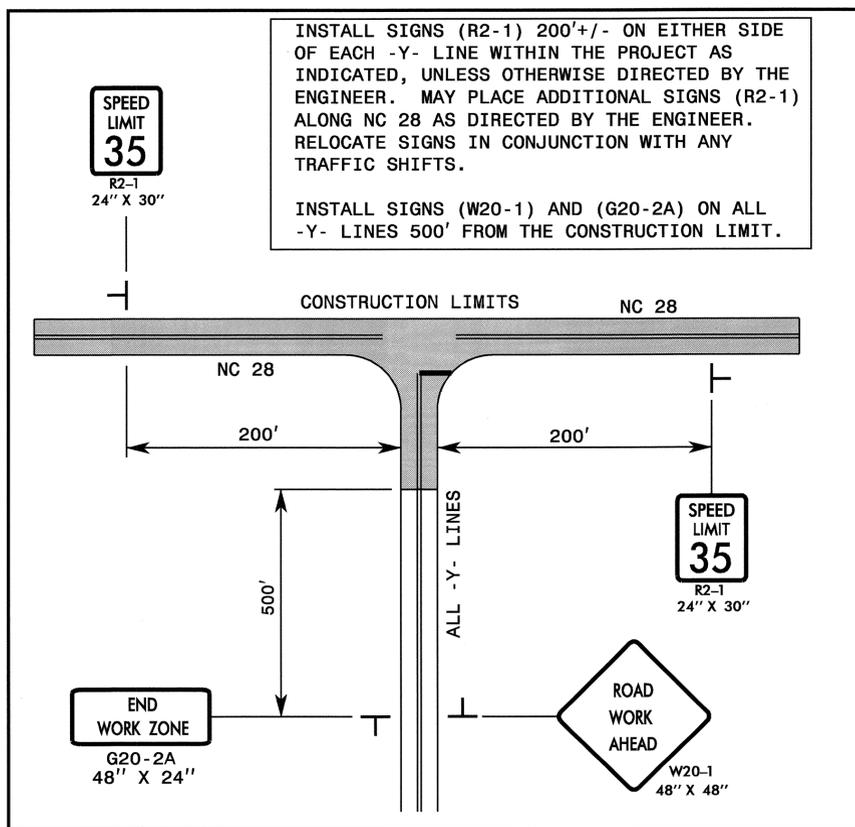


INSTALL SIGN ON BOTH NC 28 AND SR 1323 (RIVERVIEW ST.)

INSTALL SIGN ON BOTH NC 28 AND SR 1323 (RIVERVIEW ST.)

GENERAL NOTES

- COVER/REMOVE ALL EXISTING SPEED LIMIT SIGNS ON NC 28.
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WARNING WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.



APPROVED: _____ DATE: _____

 JENNIFER L. PORTMAN
 ENGINEER
 2/2/10

WORK ZONE ADVANCE WARNING AND SPEED LIMIT REDUCTION SIGNING	
SCALE: NONE	REVISIONS
DATE: JAN. 2010	
DESIGN BY: MHS	
REVIEWED BY: JLP	

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