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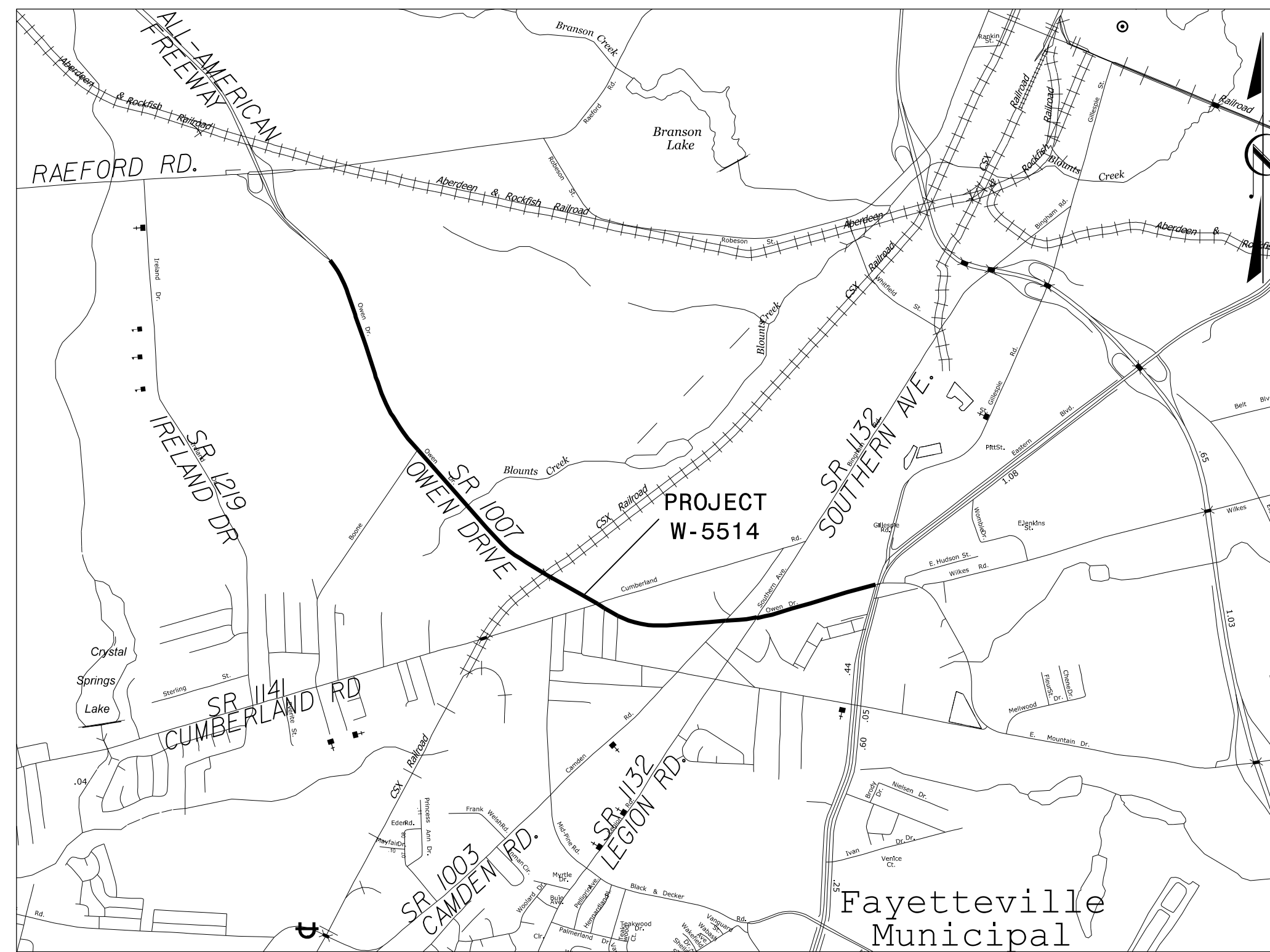
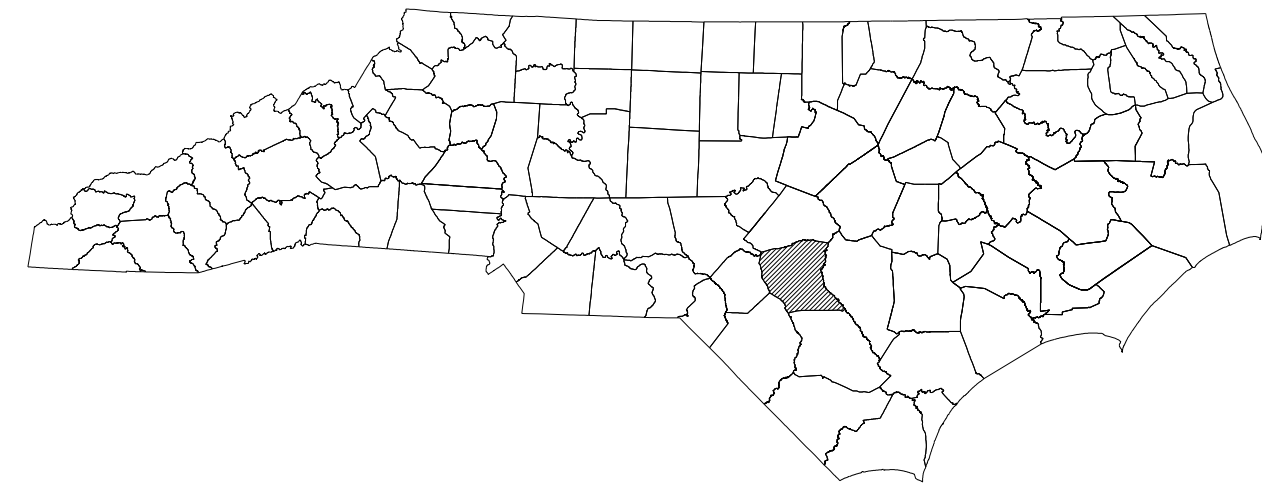
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CUMBERLAND COUNTY



VICINITY MAP

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-2A THRU TMP-2B	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)
TMP-3A THRU TMP-3B	TEMPORARY TRAFFIC CONTROL PHASING
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SHEET NO.
TMP-1

W-5514

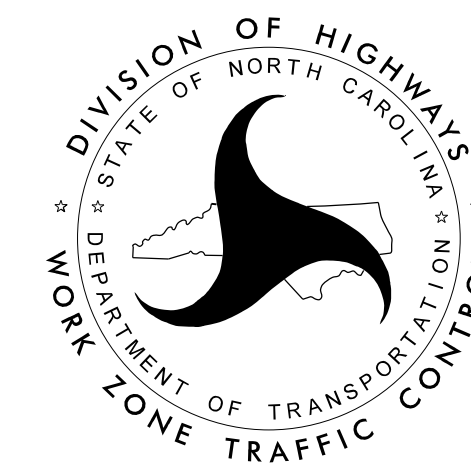


4000 WestChase Boulevard, Suite 530 Raleigh, NC 27607
NC License No. C-3705



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

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



JOSEPH LEWIS, PE
TRAFFIC CONTROL
PROJECT ENGINEER

A. MATTHEW THIGPEN, PE
TRAFFIC CONTROL
PROJECT DESIGN ENGINEER

APPROVED: _____
DATE: _____

SEAL



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
1101.04	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	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA

REMOVAL

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING

P2	WHITE STOPBAR	PAINT (24")
P8	2FT.-6FT./SP WHITE MINISKIP	PAINT (4")
P9	2FT.-6FT./SP YELLOW MINISKIP	PAINT (4")
P13	3FT.-9FT./SP WHITE MINISKIP	PAINT (8")
PA	WHITE EDGELINE	PAINT (4")
PB	YELLOW EDGELINE	PAINT (4")
PC	10 FT. WHITE SKIP	PAINT (4")
PD	3FT.-9FT./SP WHITE MINISKIP	PAINT (4")
PE	WHITE SOLID LANE LINE	PAINT (4")
PI	YELLOW DOUBLE CENTER LINE	PAINT (4")
PN	WHITE GORELINE	PAINT (8")
PO	WHITE DIAGONAL	PAINT (8")
PP	YELLOW DIAGONAL	PAINT (8")
PQ	WHITE CROSSWALK LINE	PAINT (8")
PR	WHITE SOLID LANE LINE	PAINT (8")
QA	LEFT TURN ARROW	PAINT
QB	RIGHT TURN ARROW	PAINT
QC	STRAIGHT ARROW	PAINT
QE	COMBO. STRAIGHT/RIGHT ARROW	PAINT
QI	ALPHANUMERIC CHARACTER	PAINT
QN	24" YIELD LINE TRIANGLE	PAINT
QT	U-TURN ARROW	PAINT
CB	YELLOW EDGELINE	REMOVABLE TAPE (4")
CC	10 FT. WHITE SKIP	REMOVABLE TAPE (4")

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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APPROVED: _____ DATE: _____		ROADWAY STANDARD DRAWINGS & LEGEND

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:

NOTE: THESE DAY AND TIME RESTRICTIONS DO NOT APPLY DURING PHASE I, STEP 4 AND PHASE II, STEPS 1-5; HOWEVER, HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS DO APPLY THROUGHOUT.

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	MONDAY THRU THURSDAY
	6:00 A.M. TO 8:30 A.M.
	AND
	4:00 P.M. TO 7:00 P.M.
	AND
	FRIDAY
	6:00 A.M. TO 8:30 A.M.
	AND
	FRIDAY 12:00 P.M. (NOON) TO SUNDAY 9:00 P.M.

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

ROAD NAME
ALL ROADS

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.


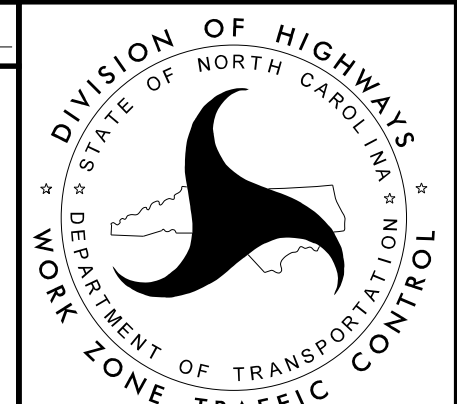
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY AND 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

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 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 TRANSPORTATION MANAGEMENT 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.
- DO NOT INSTALL MORE THAN 1/2 MILE OF LANE CLOSURE ON SR 1007 (OWEN DRIVE) MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON SR 1007 (OWEN DRIVE).
- PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

APPROVED: _____ DATE: _____ 		TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)
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GENERAL NOTES CONTINUED

PAVEMENT EDGE DROP OFF REQUIREMENTS

- K) 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.

- L) 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) 350 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- N) 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.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

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

- R) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- S) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

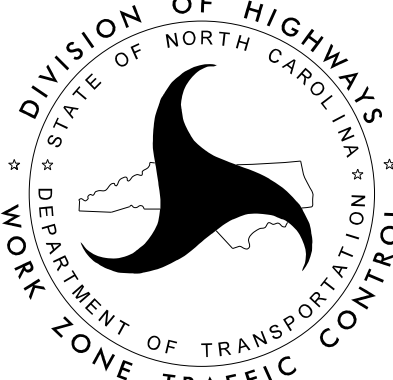
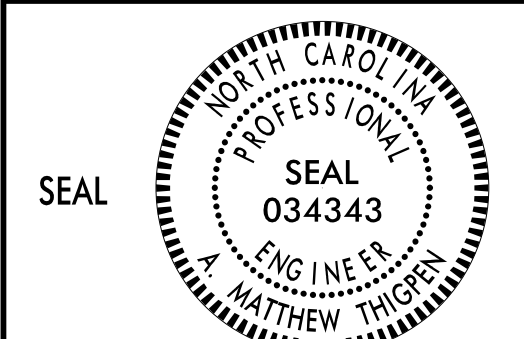
- T) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

- U) 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 OR AS DIRECTED BY THE ENGINEER.
- V) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- W) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- X) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

- Y) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.
- Z) ALL CURB 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.
- AA) 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.).

APPROVED: _____	DATE: _____		TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)
			

PHASING

PROJ. REFERENCE NO.	SHEET NO.
W-5514	TMP-3A

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS AS DIRECTED BY THE ENGINEER.

PHASE I

STEP 1
INSTALL WORK ZONE ADVANCE WARNING SIGNS. SEE RSD 1101.01.

STEP 2
AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES (RSD 1101.02, SHEETS 3 AND 7 OF 15), WHEN NECESSARY, INSTALL AND ACTIVATE TEMPORARY SIGNAL 060212T AT THE INTERSECTION OF OWEN DRIVE AND CUMBERLAND DRIVE (SEE SIGNAL PLANS AND TMP-4).

STEP 3
AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES SD NO. 1101.02, SHEETS 2 AND 3 OF 15), WHEN NECESSARY, BEGIN CONSTRUCTION OF THE FOLLOWING UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT INCLUDING DRAINAGE (SEE SHEET TMP-4).

- * -L- FROM STA 192+62 +/- TO -Y5- STA 9+78 +/-
- * -L- FROM STA 197+49 +/- TO -Y5- STA 18+60 +/-

CONSTRUCT PROPOSED DRAINAGE CROSS PIPES ACROSS -L- AS FOLLOWS:

USE LANE CLOSURES (RSD NO. 1101.02, SHEETS 3 AND 7 OF 15) AND LAW ENFORCEMENT AS NECESSARY DURING SUCCESSIVE OVERNIGHT PERIODS.

PATCH PAVEMENT AND RESTORE TRAFFIC TO ITS PRIOR PATTERN BY THE END OF THE WORK PERIOD.

AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES (RSD NO. 1101.02, SHEETS 2 AND 3 OF 15), WHEN NECESSARY, CONSTRUCT PROPOSED CURB RAMPS AT THE FOLLOWING SIGNALIZED INTERSECTIONS

- * OWEN DRIVE AND WALTER REED ROAD
- * OWEN DRIVE AND MELROSE ROAD
- * OWEN DRIVE AND VILLAGE DRIVE
- * OWEN DRIVE AND BOONE TRAIL
- * OWEN DRIVE AND US HIGHWAY 301

AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES (RSD 1101.02, SHEETS 1, 3 AND 7 OF 15), WHEN NECESSARY, INSTALL AND COVER NEW TRAFFIC SIGNAL ON -L- (OWEN DRIVE) AT INTERSECTION OF DALLAS STREET. PLACE IN FLASH MODE 2 WEEKS PRIOR TO SHIFTING -L- (OWEN DRIVE) TRAFFIC TO PROPOSED FINAL PATTERN IN PHASE I, STEP 5.

USING RSD 1101.02, SHEETS 3 AND 7 OF 15 AND LAW ENFORCEMENT WHEN NECESSARY MILL ASPHALT FROM BRIDGE DECK AND APPROACH SLABS AND MILL 200 FEET OF THE BRIDGE APPROACHES A DEPTH VARYING FROM 0" TO AN AVERAGE DEPTH OF 2-7/8" TO CREATE A SMOOTH TRANSITION FROM THE EXISTING PAVEMENT TO THE BRIDGE DECK, INSTALL TEMPORARY PAVEMENT MARKINGS (PAINT) AND TEMPORARY MARKERS IN THE EXISTING PATTERN AND OPEN ALL LANES TO TRAFFIC. (CONTRACTOR MAY PROCEED TO STEP 4 FOLLOWING THIS MILLING OPERATION PRIOR TO COMPLETING THE REST OF STEP 3)

CONTRACTOR SHALL COMPLETE THE WORK OF PHASE I STEP 4 IN 7 CONSECUTIVE WEEKENDS WORKING FROM FRIDAY 7:00 P.M. TO MONDAY 6:00 A.M. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 4
COMPLETE THE BRIDGE REHABILITATION IN THE FOLLOWING SEQUENCE OR AS DIRECTED BY THE ENGINEER.

- A. CLOSE 2 INSIDE LANES OF WESTBOUND -L- AND CLOSE INSIDE LANE OF EASTBOUND -L-. COMPLETE BRIDGE REHABILITATION OF INSIDE LANE OF WESTBOUND -L- IN A SINGLE WEEKEND PERIOD, NOT INCLUDING JOINTS AND RE-OPEN TO EXISTING TRAFFIC PATTERN (SEE SHEETS TMP-5 THRU TMP-8).
- B. CLOSE 2 INSIDE LANES OF WESTBOUND -L- AND CLOSE INSIDE LANE OF EASTBOUND -L-. COMPLETE BRIDGE REHABILITATION OF CENTER LANE OF WESTBOUND -L- AND COMPLETE JOINT CONSTRUCTION OF INSIDE LANE REHABILITATED IN STEP 4A IN A SINGLE WEEKEND PERIOD (SEE SHEETS TMP-5 THRU TMP-8).

- C. CLOSE 2 OUTSIDE LANES OF WESTBOUND -L-. COMPLETE BRIDGE REHABILITATION OF THE OUTSIDE LANE OF WESTBOUND -L- AND COMPLETE JOINT CONSTRUCTION OF CENTER LANE REHABILITATED IN STEP 4B IN A SINGLE WEEKEND PERIOD (SEE SHEETS TMP-9 THRU TMP-11).
- D. USING RSD 1101.02, SHEETS 3, 7 AND 8 OF 15, WHEN NECESSARY, CLOSE 2 INSIDE LANES OF EASTBOUND -L- AND CLOSE INSIDE LANE OF WESTBOUND -L-. COMPLETE BRIDGE REHABILITATION OF INSIDE LANE OF EASTBOUND -L-, NOT INCLUDING JOINTS, IN A SINGLE WEEKEND PERIOD.
- E. USING RSD 1101.02, SHEETS 3, 7 AND 8 OF 15, WHEN NECESSARY, CLOSE 2 INSIDE LANES OF EASTBOUND -L- AND CLOSE INSIDE LANE OF WESTBOUND -L-. COMPLETE BRIDGE REHABILITATION OF CENTER LANE OF EASTBOUND -L- AND COMPLETE JOINT CONSTRUCTION OF INSIDE LANE REHABILITATED IN STEP 4D IN A SINGLE WEEKEND PERIOD.
- F. USING RSD 1101.02, SHEETS 3, 7 AND 8 OF 15, WHEN NECESSARY, CLOSE 2 OUTSIDE LANES OF EASTBOUND -L-. COMPLETE BRIDGE REHABILITATION OF THE OUTSIDE LANE OF EASTBOUND -L- AND COMPLETE JOINT CONSTRUCTION OF CENTER LANE REHABILITATED IN STEP 4E IN A SINGLE WEEKEND PERIOD.
- G. USING RSD 1101.02, SHEET 3 OF 15, CLOSE OUTSIDE LANE OF EASTBOUND AND WESTBOUND -L-. COMPLETE JOINT CONSTRUCTION OF OUTSIDE LANES IN A SINGLE WEEKEND PERIOD.

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE ALL WORK IN PHASE I, STEP 5.

STEP 5
AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES (RSD 1101.02, SHEETS 2, 3 AND 7 OF 15), AND LAW ENFORCEMENT WHEN NECESSARY, PERFORM THE FOLLOWING:

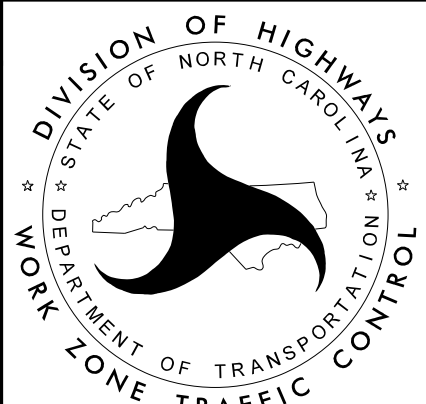

PLACE TEMPORARY PAVEMENT MARKINGS & MARKERS IN THE FINAL PATTERN (INCLUDING SOLID YELLOW EDGE LINE MARKINGS OUTLINING SHAPE OF PROPOSED MEDIANS), COMPLETE SIGNAL REVISIONS FOR EXISTING LOCATIONS, SHIFT TRAFFIC TO THE FINAL PATTERN, PLACE SKINNY DRUMS WITHIN OUTLINES OF PROPOSED RAISED MEDIANS AND INSTALL REMAINING TRAFFIC CONTROL DEVICES. ACTIVATE ALL FINAL SIGNALS AND OPEN TO PHASE II TRAFFIC PATTERN (SEE SHEETS TMP-12 THRU TMP-28).

PHASE II

CONTRACTOR SHALL COMPLETE THE WORK OF PHASE II STEPS 1 THRU 5 IN 45 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 1
USING RSD 1101.02, SHEET 3 OF 15, TEMPORARILY CLOSE THE LEFT LANE OF -L- (OWEN DRIVE) FROM THE SIGNALIZED INTERSECTION OF -Y1- (WALTER REED ROAD) TO THE SIGNALIZED INTERSECTION OF -Y2- (VILLAGE DRIVE). WORKING IN A CONTINUOUS MANNER, CONTRACTOR SHALL PERFORM THE FOLLOWING (SEE SHEETS TMP-12 THRU TMP-14):

- A. REMOVE EXISTING CONCRETE MEDIAN ISLAND (IF APPLICABLE).
- B. COMPLETE DRAINAGE CONSTRUCTION IN MEDIANS USING PRECAST CONCRETE BOXES.
- C. REMOVE EXISTING PAVEMENT IN AREAS OF PROPOSED GRASSED MEDIANS AND CONSTRUCT PROPOSED MEDIAN CURB & GUTTER AND MONOLITHIC MEDIANS.
- D. WEDGE PAVEMENT OF LEFT TURN LANES ADJACENT TO MONOLITHIC ISLANDS, AS SHOWN IN THE ROADWAY PLANS, TO PROVIDE POSITIVE DRAINAGE.
- E. REPLACE ANY PAVEMENT MARKINGS CONCEALED DURING CONSTRUCTION AND INSTALL REMAINING PAVEMENT MARKINGS IN AREAS OF EXISTING CONCRETE ISLAND REMOVAL.
- F. REOPEN LEFT LANE TO TRAFFIC IN ORIGINAL PHASE II PATTERN.

APPROVED: _____ DATE: _____		<h1>PHASING</h1>
		

PHASING

PROJ. REFERENCE NO.	SHEET NO.
W-5514	TMP-3B

PHASE II CONTINUED

STEP 2

USING RSD 1101.02, SHEET 3 OF 15, TEMPORARILY CLOSE THE LEFT LANE OF -L- (OWEN DRIVE) FROM THE SIGNALIZED INTERSECTION OF -Y2- (VILLAGE DRIVE) TO THE INTERSECTION OF BORDEAUX PARK DRIVE AND CONSTRUCT THE PROPOSED MEDIAN CURB & GUTTER AND RAISED MONOLITHIC MEDIANS AND ASSOCIATED DRAINAGE IN THE SAME MANNER AS STEP 1 (SEE SHEETS TMP-15 THRU TMP-17).

STEP 3

USING RSD 1101.02, SHEET 3 OF 15, TEMPORARILY CLOSE THE LEFT LANE OF -L- (OWEN DRIVE) FROM THE INTERSECTION OF BORDEAUX PARK DRIVE TO THE SIGNALIZED INTERSECTION OF -Y5- (CUMBERLAND ROAD) AND CONSTRUCT THE PROPOSED MEDIAN CURB & GUTTER AND RAISED MONOLITHIC MEDIANS AND ASSOCIATED DRAINAGE IN THE SAME MANNER AS STEP 1 (SEE SHEETS TMP-18 THRU TMP-21).

STEP 4

USING RSD 1101.02, SHEET 3 OF 15, TEMPORARILY CLOSE THE LEFT LANE OF -L- (OWEN DRIVE) FROM THE SIGNALIZED INTERSECTION OF -Y5- (CUMBERLAND ROAD) TO THE SIGNALIZED INTERSECTION OF -Y6- (CAMDEN ROAD) AND CONSTRUCT THE PROPOSED MEDIAN CURB & GUTTER AND RAISED MONOLITHIC MEDIANS AND ASSOCIATED DRAINAGE IN THE SAME MANNER AS STEP 1 (SEE SHEETS TMP-22 THRU TMP-25).

STEP 5

USING RSD 1101.02, SHEET 3 OF 15, TEMPORARILY CLOSE THE LEFT LANE OF -L- (OWEN DRIVE) FROM THE SIGNALIZED INTERSECTION OF -Y6- (CAMDEN ROAD) TO THE SIGNALIZED INTERSECTION OF -Y8- (US HIGHWAY 301) AND CONSTRUCT THE PROPOSED MEDIAN CURB & GUTTER AND RAISED MONOLITHIC MEDIANS AND ASSOCIATED DRAINAGE IN THE SAME MANNER AS STEP 1 (SEE SHEETS TMP-26 THRU TMP-28).

STEP 6

USING RSD 1101.02, SHEETS 2, 3 AND 7 OF 15 AND LAW ENFORCEMENT WHEN NECESSARY MILL OUTSIDE LANE OF -L- (OWEN DRIVE), MILL 200 FEET OF THE BRIDGE APPROACHES A DEPTH VARYING FROM 0" TO 1" (SEE ROADWAY PLANS FOR MILLING DETAIL). PLACE FINAL LAYER OF SURFACE COURSE AND INSTALL TEMPORARY PAVEMENT MARKINGS (PAINT) AND TEMPORARY MARKERS IN THE PROPOSED FINAL PATTERN (SEE PAVEMENT MARKING PLANS) AND OPEN ALL LANES TO TRAFFIC.


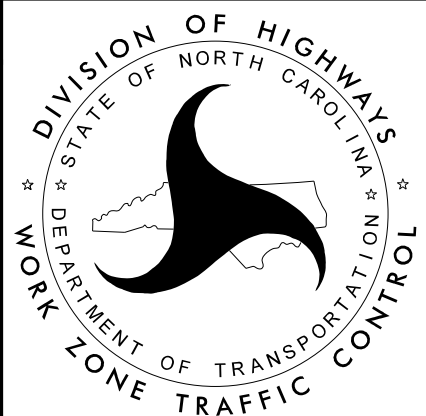
STEP 7

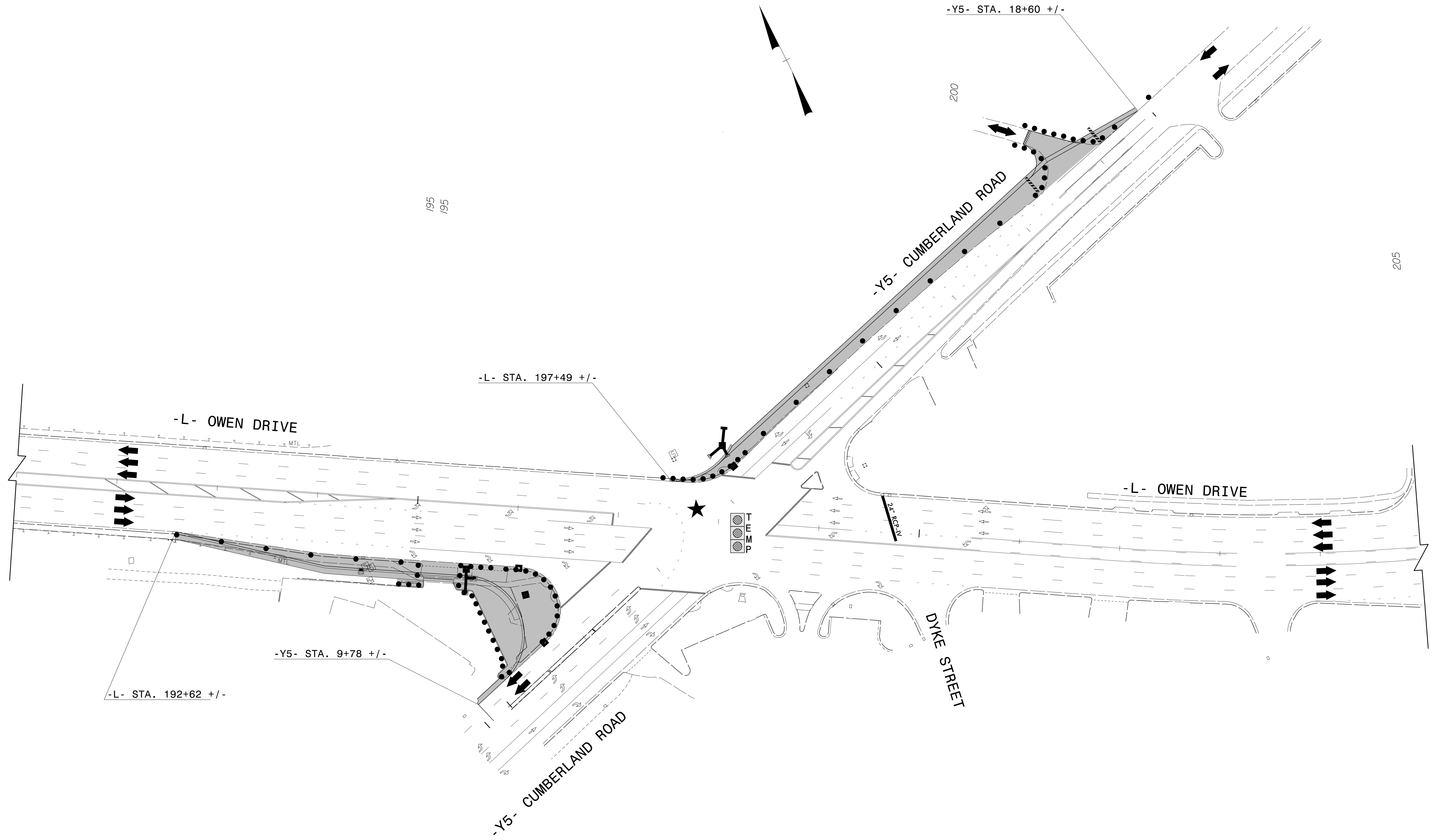
USING RSD 1101.02, SHEETS 2, 3 AND 7 OF 15 AND LAW ENFORCEMENT WHEN NECESSARY, PLACE FINAL PAVEMENT MARKINGS AND MARKERS (SEE PAVEMENT MARKING PLANS).

STEP 8

REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES.

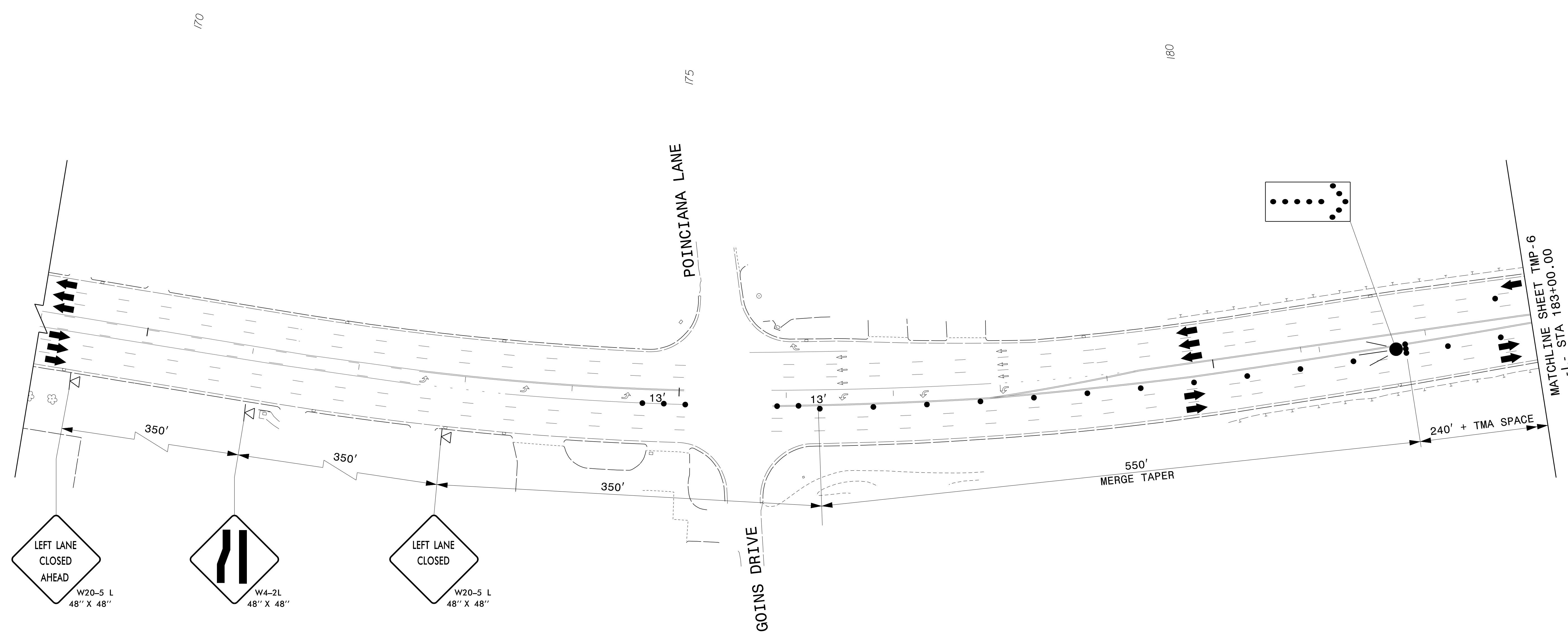
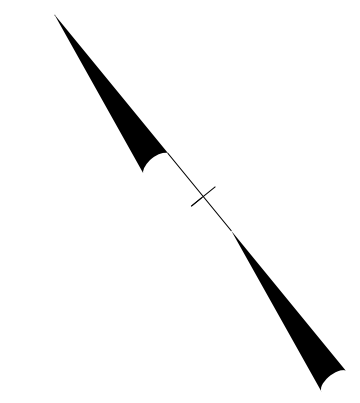
5/8/2015
R:\TrafficControl\TCP\W5514_TC_TMP_03.dgn
User:amfngpen

APPROVED: _____ DATE: _____			<h1>PHASING</h1>
SEAL			



4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514_tc_tmp_04.dgn
 User: tmthigben

APPROVED: _____	DATE: _____			<p align="center">PHASE I STEP 3 DETAIL</p>



LEFT LANE
CLOSED
AHEAD
W20-5 L
48" X 48"

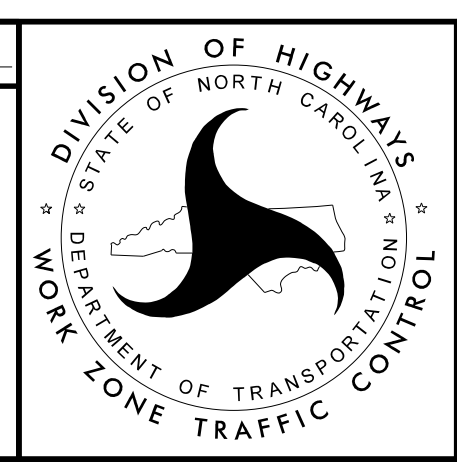
W4-2L
48" X 48"

LEFT LANE
CLOSED
W20-5 L
48" X 48"

4/7/2015
 \\vnb\pro\Raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c_tmp_05.dgn
 User:tmthigben

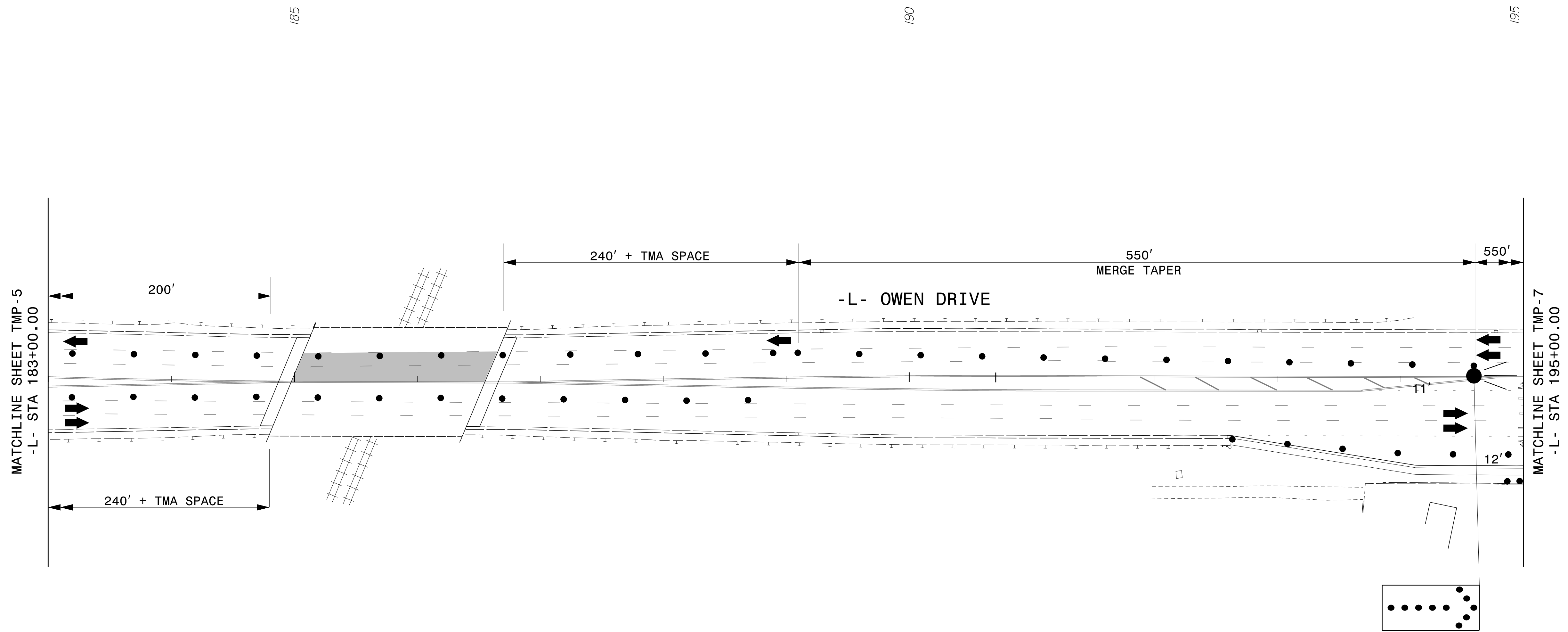
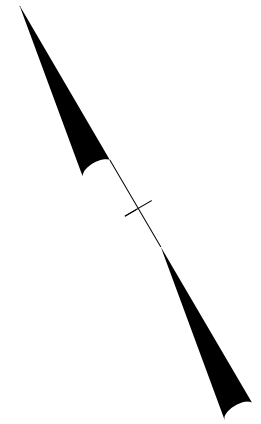
APPROVED: _____ DATE: _____

SEAL



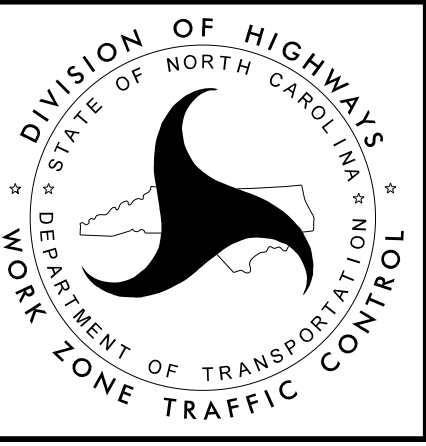
PHASE I
STEP 4A & 4B DETAIL

MATCHLINE SHEET TMP-6
-L- STA 183+00.00

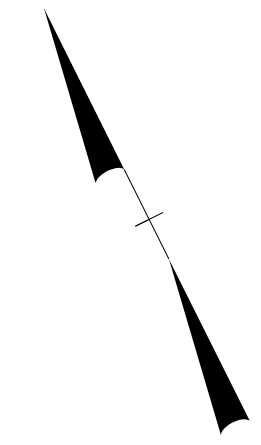
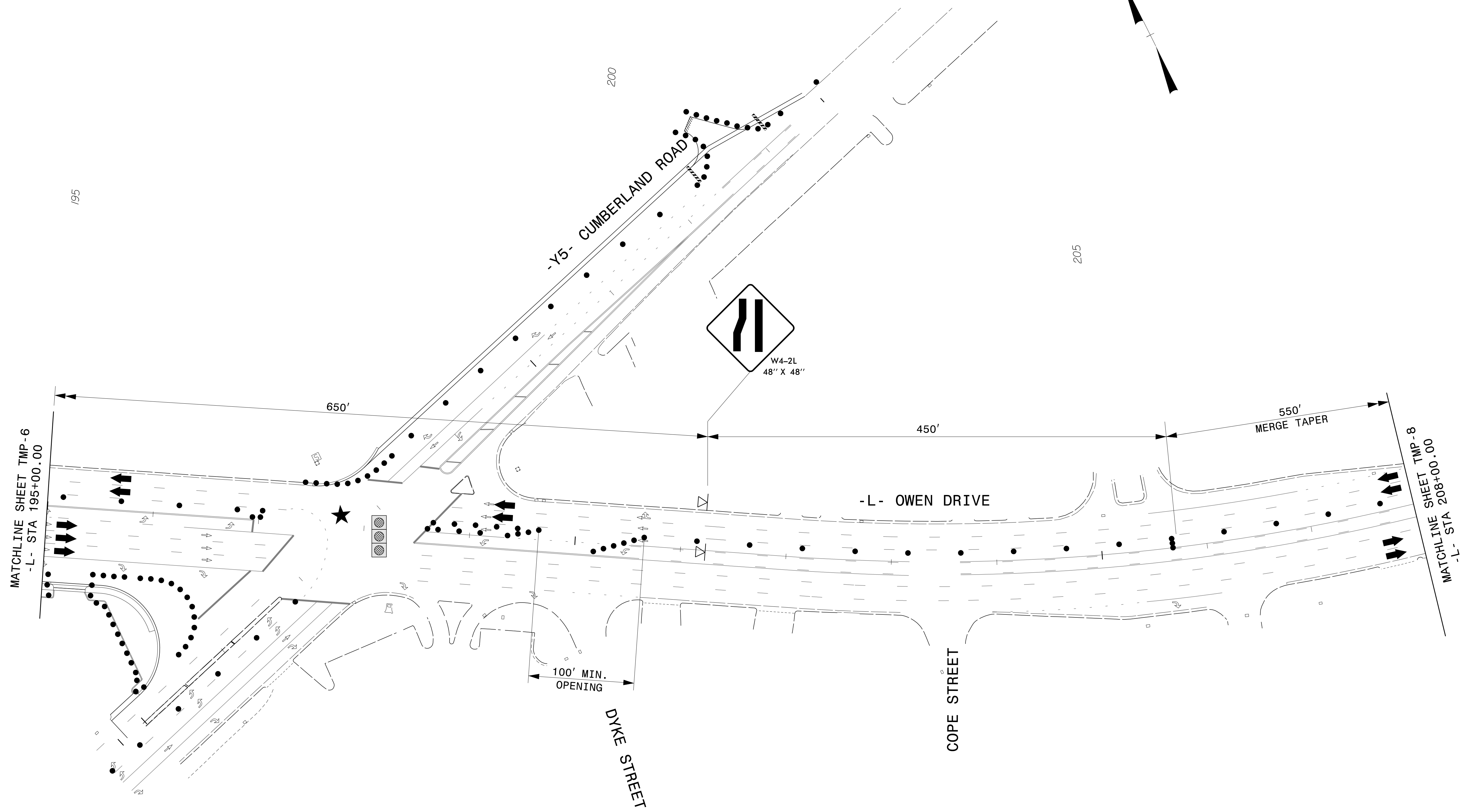


4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514_tc_tmp_06.dgn
 User: mthigben

APPROVED:	DATE:

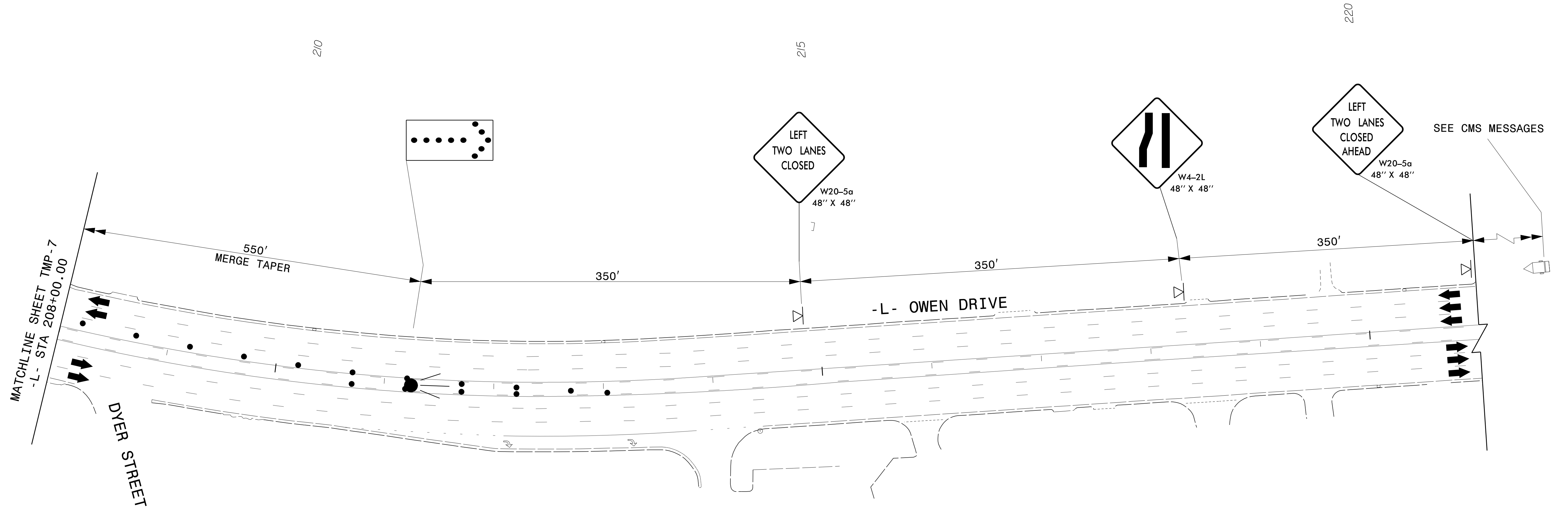
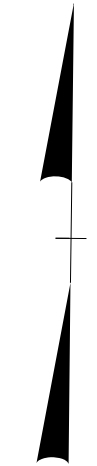


PHASE I
STEP 4A & 4B DETAIL



4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c_tmp_07.dgn
 User:tmthigben

APPROVED: _____ DATE: _____		<p style="text-align: center;">PHASE I STEP 4A & 4B DETAIL</p>

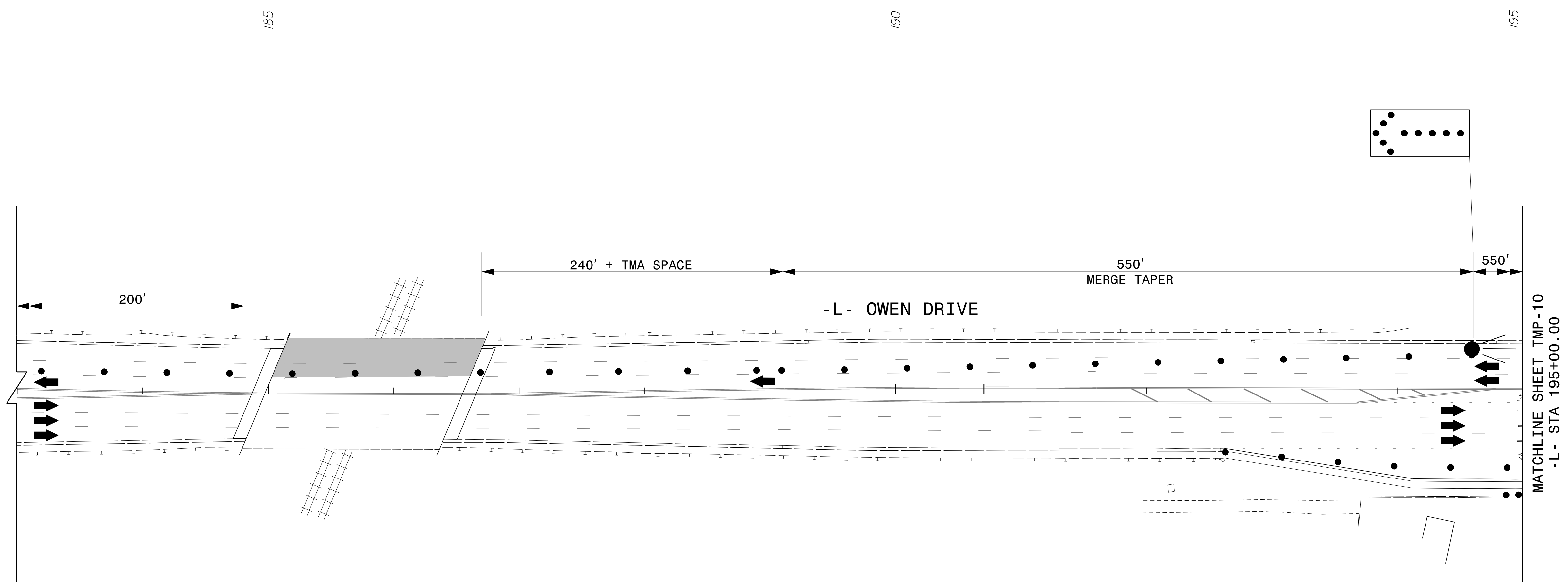
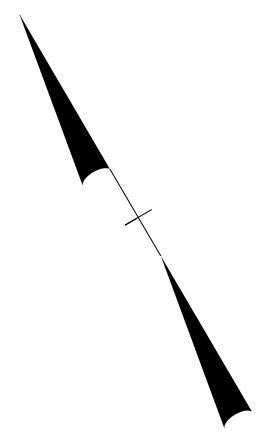


PLACE CMS JUST WEST OF
I-95 BUS OR AS DIRECTED
BY THE ENGINEER

MESSAGE NO. 1	MESSAGE NO. 2
LEFT TWO LANES	CLOSED NEXT 2 MILES
CHANGEABLE MESSAGE SIGN	

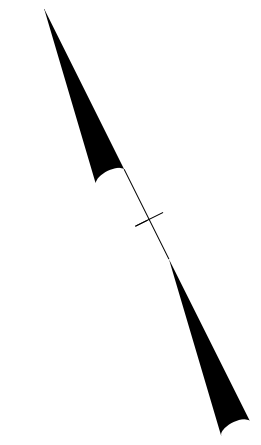
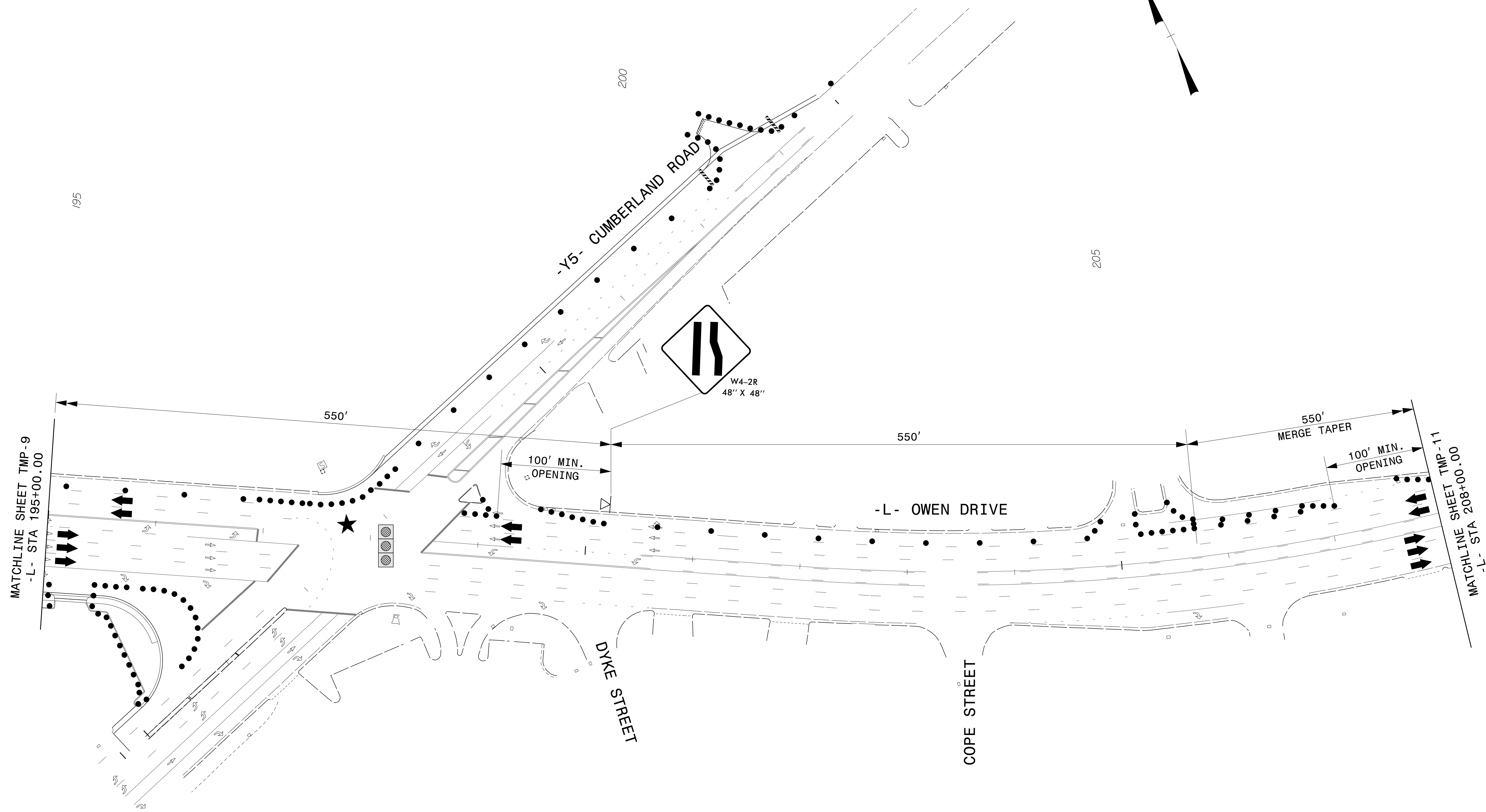
4/7/2015
 \\vnb\pro\Raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c-tmp-08.dgn
 User:tmthigben

APPROVED: _____ DATE: _____		<p style="text-align: center;">PHASE I STEP 4A & 4B DETAIL</p>



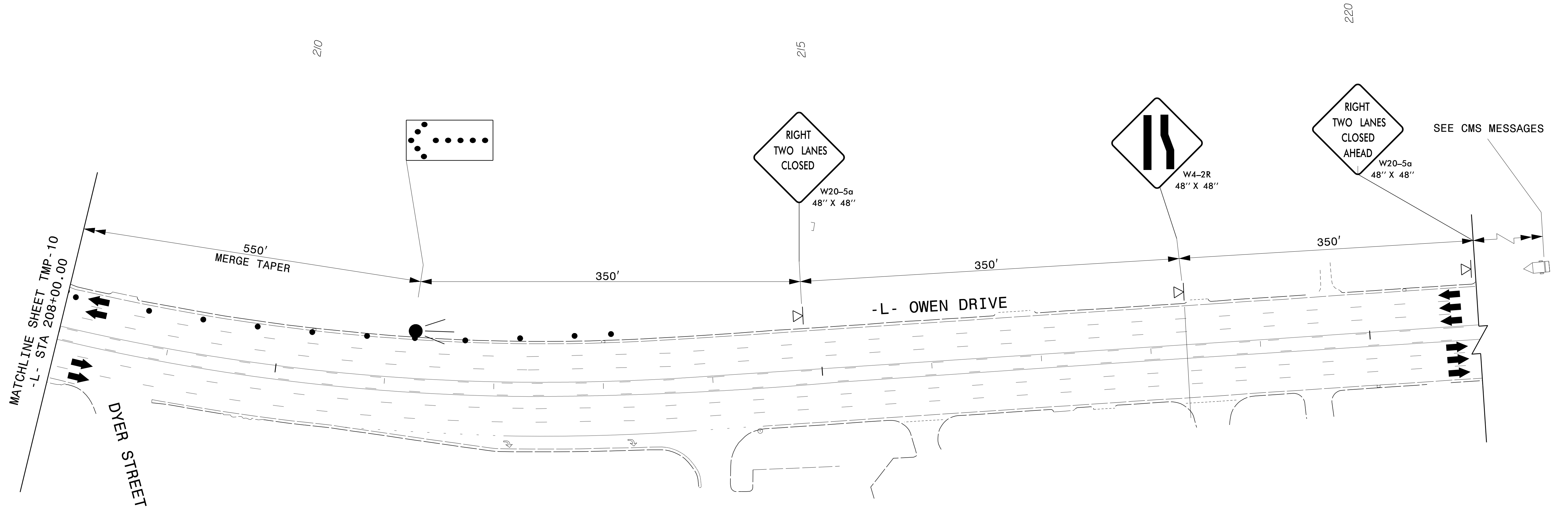
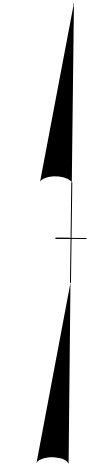
4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514_tc_tmp.09.dgn
 User: mthigben

APPROVED: _____ DATE: _____		<p style="text-align: center;">PHASE I STEP 4C DETAIL</p>



4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514_tc_tmp_10.dgn
 User: tmthigben

APPROVED: _____ DATE: _____		<p style="text-align: center;">PHASE I STEP 4C DETAIL</p>



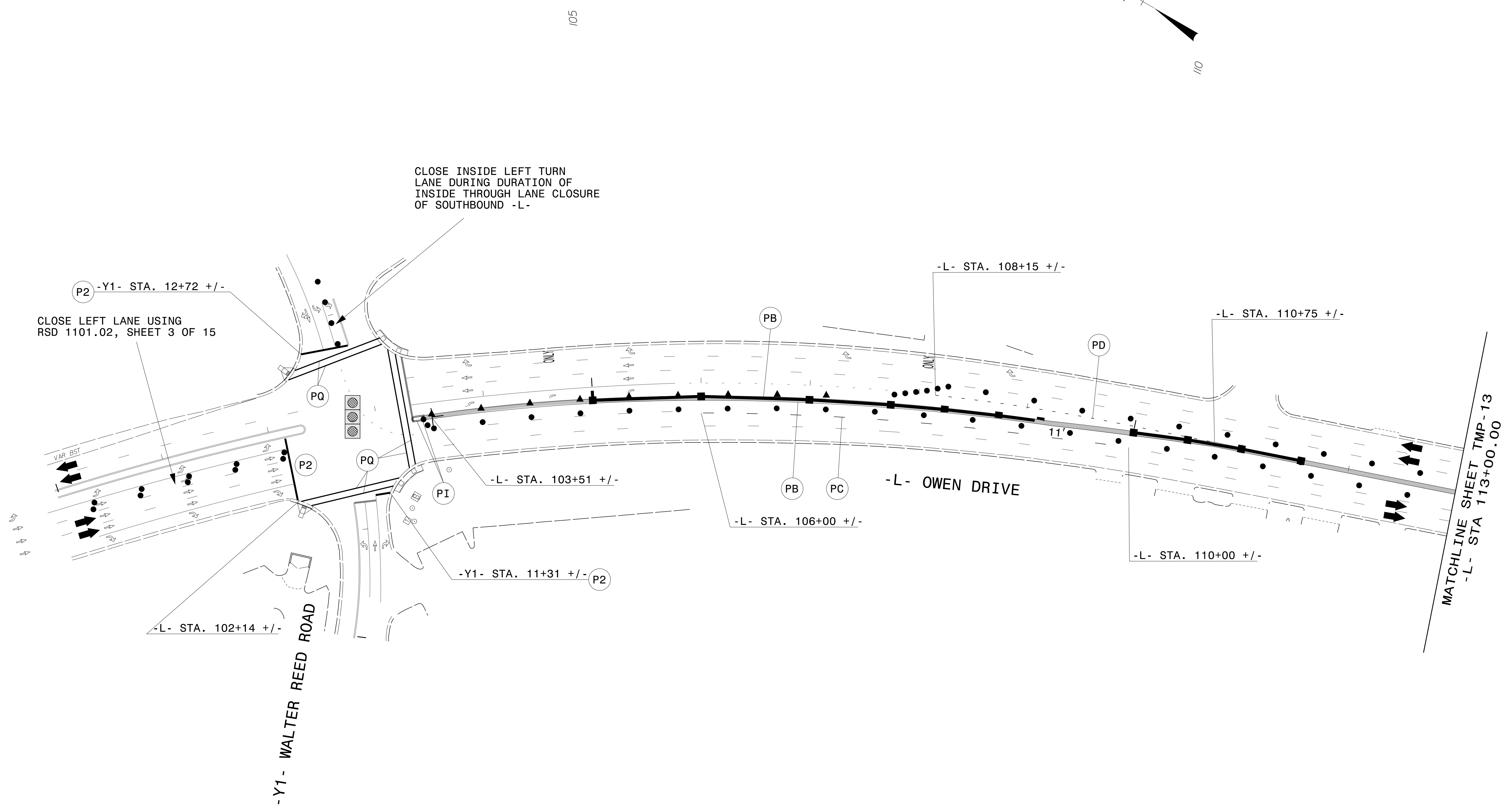
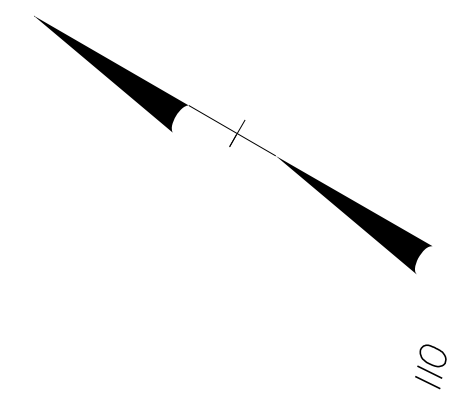
SEE CMS MESSAGES

PLACE CMS JUST WEST OF I-95 BUS OR AS DIRECTED BY THE ENGINEER

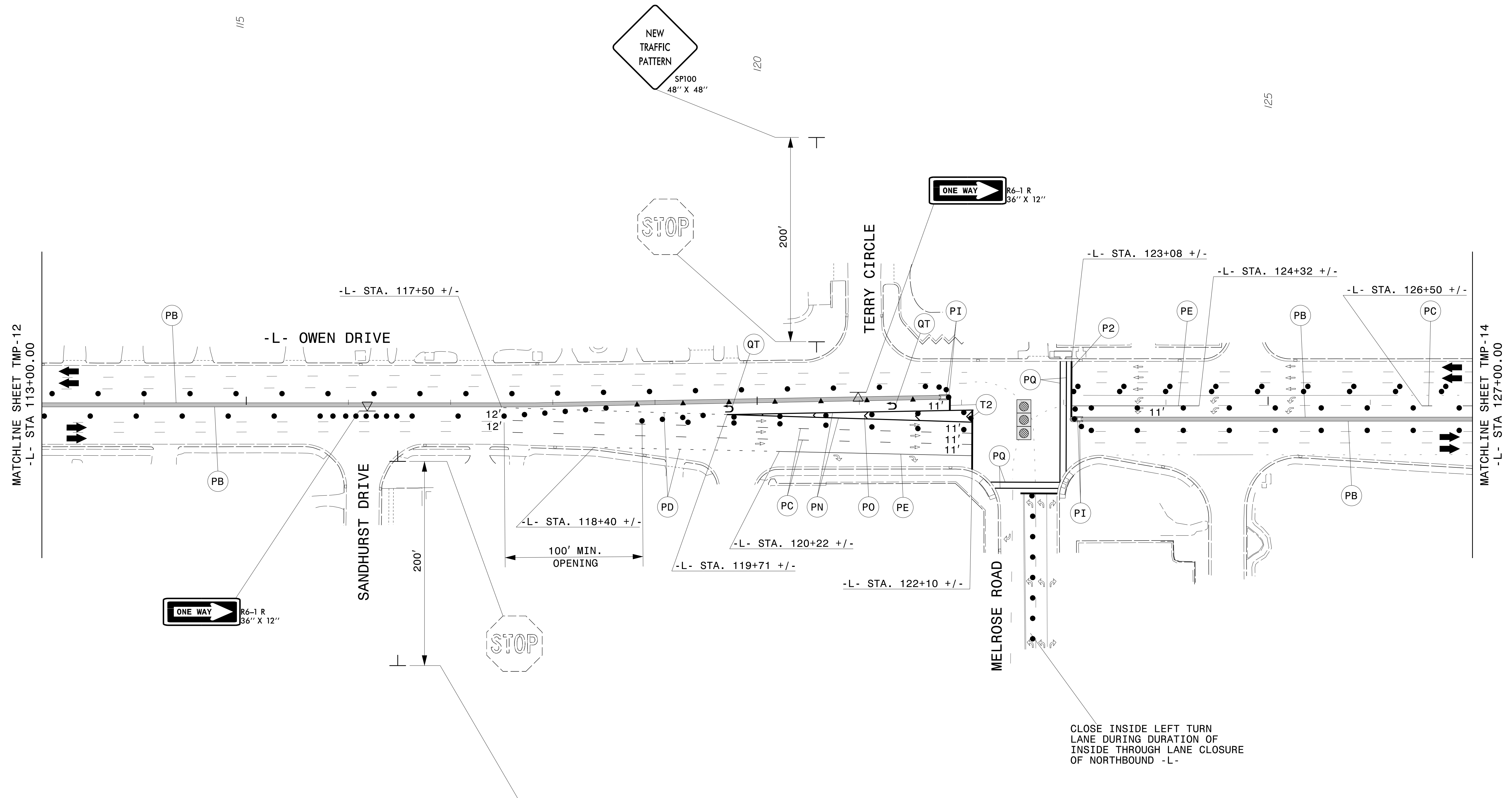
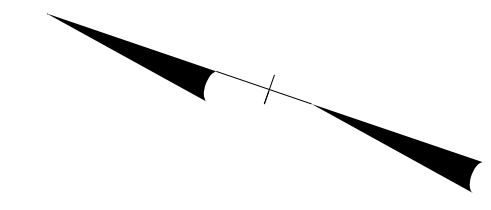
MESSAGE NO. 1	MESSAGE NO. 2
RIGHT TWO LANES	CLOSED NEXT 2 MILES
CHANGEABLE MESSAGE SIGN	

4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c_tmp.il.dgn
 User: tmthigben

APPROVED: _____ DATE: _____		<p align="center">PHASE I STEP 4C DETAIL</p>

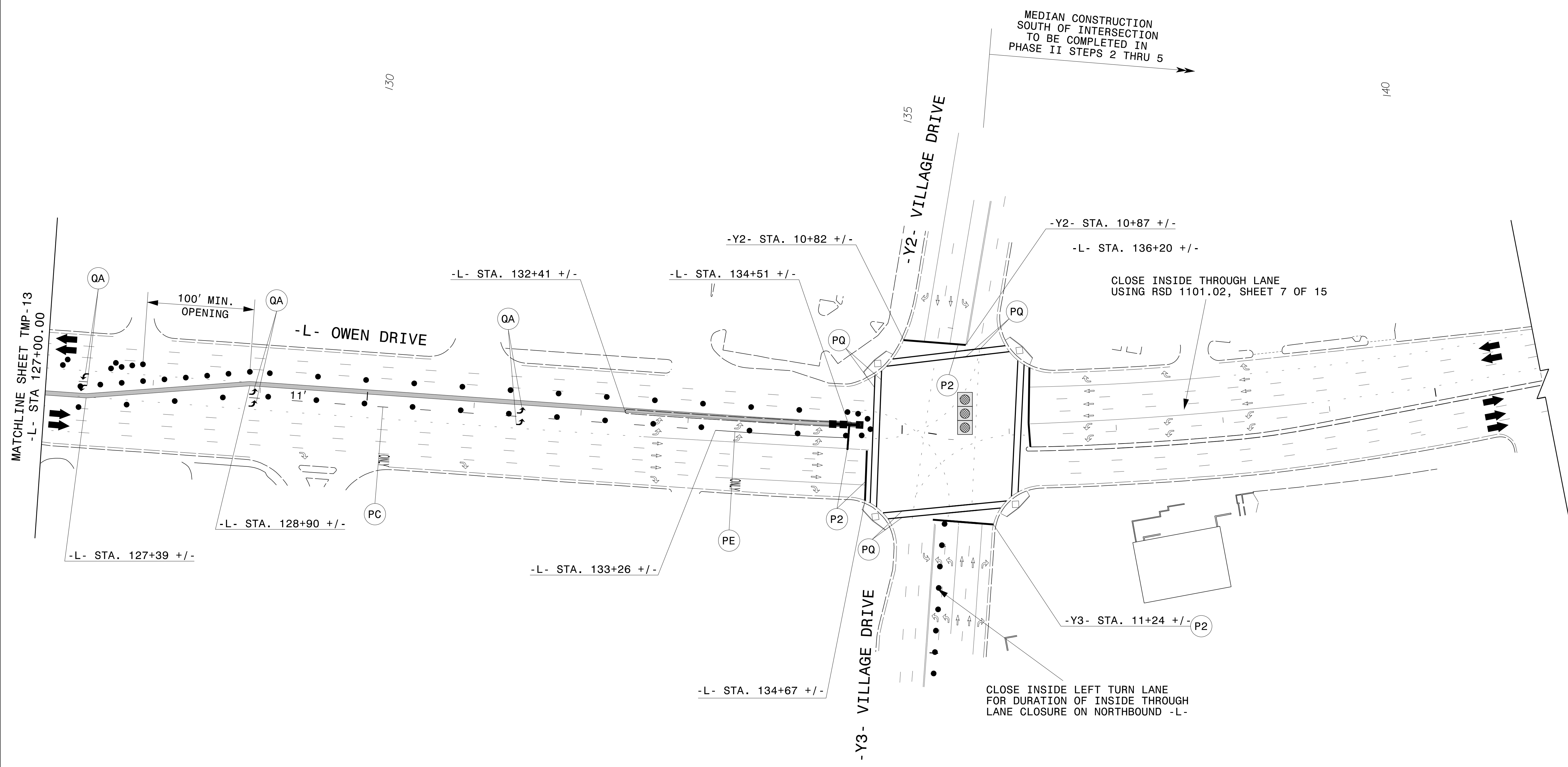
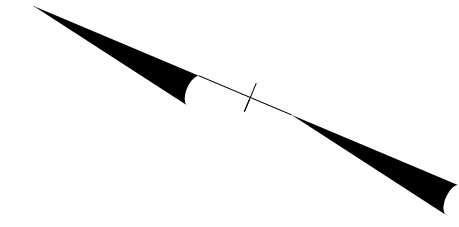


APPROVED: _____	DATE: _____			<p style="text-align: center;">PHASE II STEP 1 DETAIL</p>



4/7/2015
 \\vnb\proj\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c-tmp_13.dgn
 User: tmthigben

APPROVED: _____ DATE: _____		<p style="text-align: center;">PHASE II STEP 1 DETAIL</p>



MATCHLINE SHEET TMP-13
-L- STA. 127+00.00

100' MIN. OPENING

-L- OWEN DRIVE

-Y2- VILLAGE DRIVE

-Y3- VILLAGE DRIVE

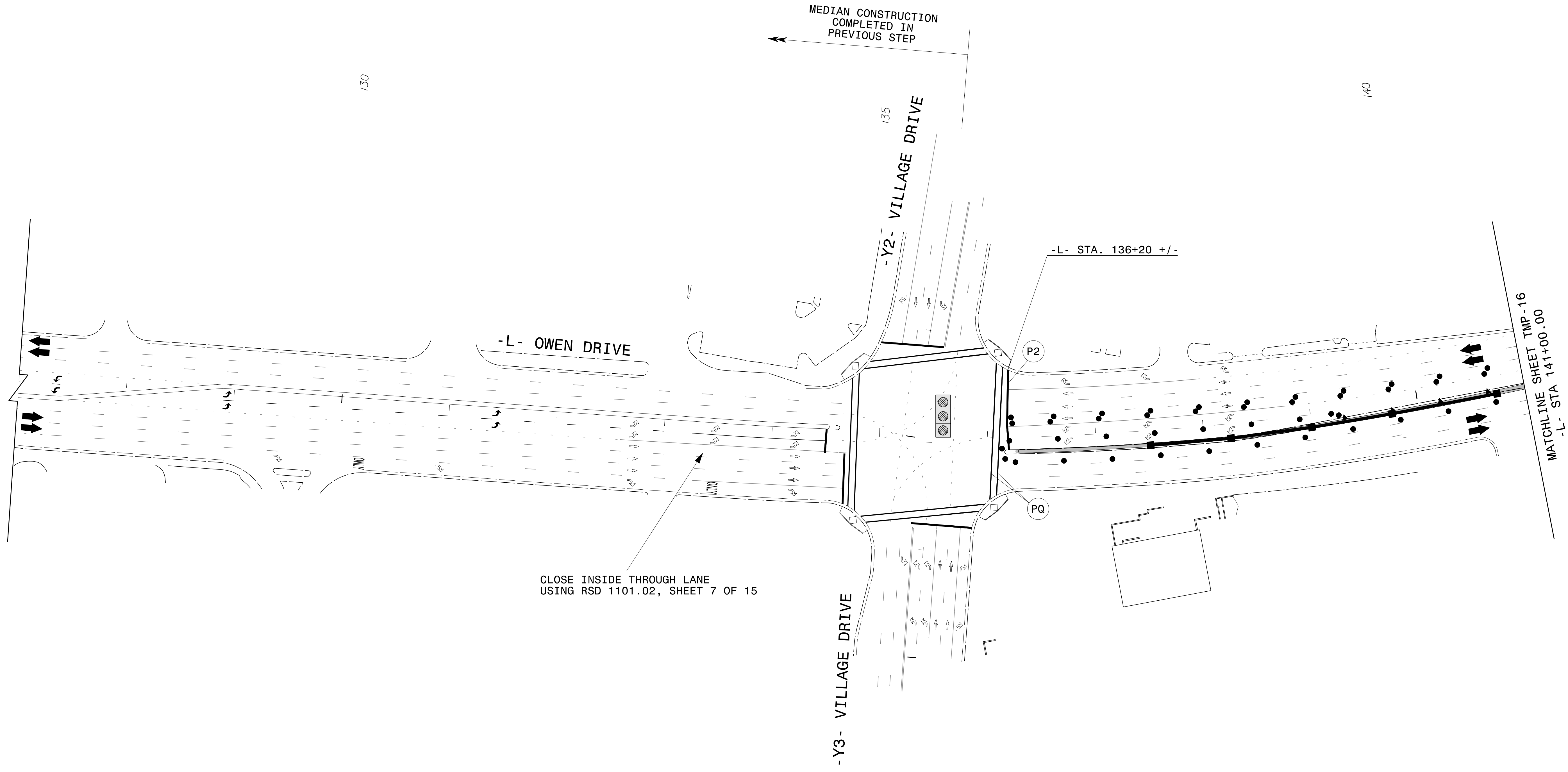
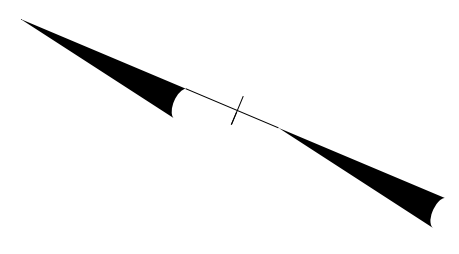
MEDIAN CONSTRUCTION SOUTH OF INTERSECTION TO BE COMPLETED IN PHASE II STEPS 2 THRU 5

CLOSE INSIDE THROUGH LANE USING RSD 1101.02, SHEET 7 OF 15

CLOSE INSIDE LEFT TURN LANE FOR DURATION OF INSIDE THROUGH LANE CLOSURE ON NORTHBOUND -L-

4/7/2015 \\vb\pro\Raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c_tmp_14.dgn User:tmthigben

APPROVED: _____ DATE: _____			<p>PHASE II STEP 1 DETAIL</p>
SEAL			



MEDIAN CONSTRUCTION
COMPLETED IN
PREVIOUS STEP

-L- OWEN DRIVE

-Y2- VILLAGE DRIVE

-Y3- VILLAGE DRIVE

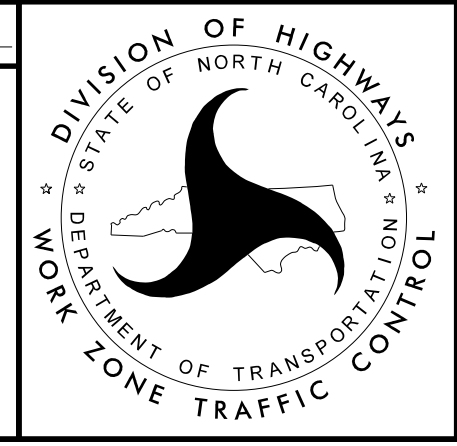
-L- STA. 136+20 +/-

MATCHLINE SHEET TMP-16
-L- STA 141+00.00

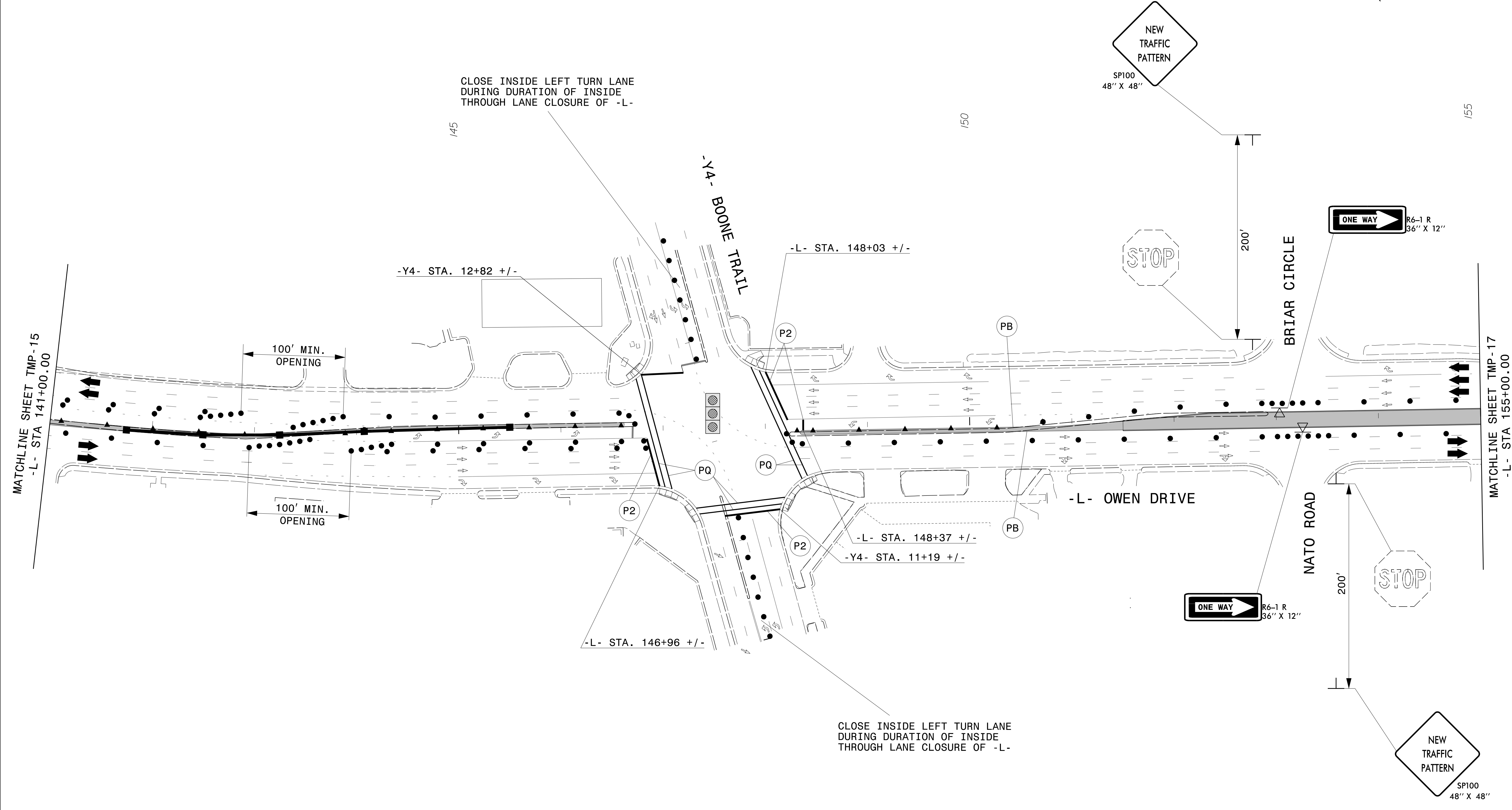
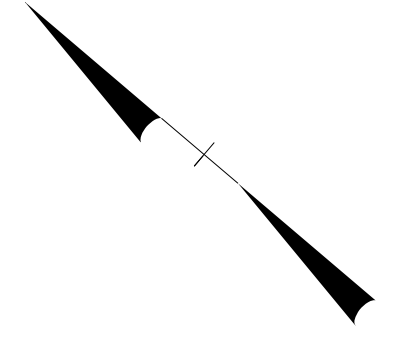
CLOSE INSIDE THROUGH LANE
USING RSD 1101.02, SHEET 7 OF 15

4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514_tc_tmp_15.dgn
 User:tmthigben

APPROVED:	DATE:

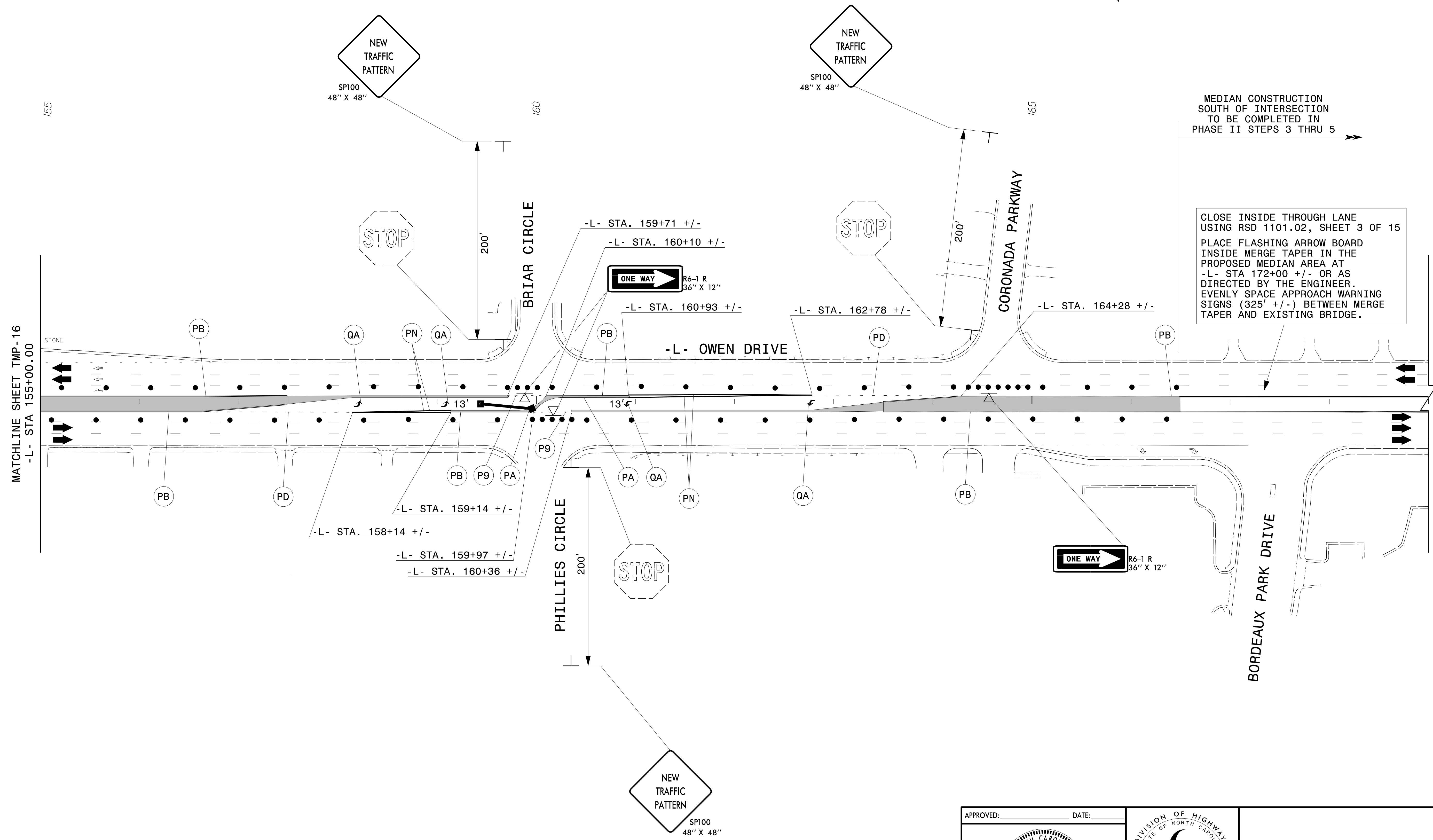
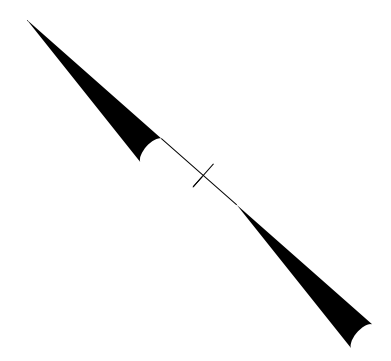


PHASE II STEP 2
DETAIL



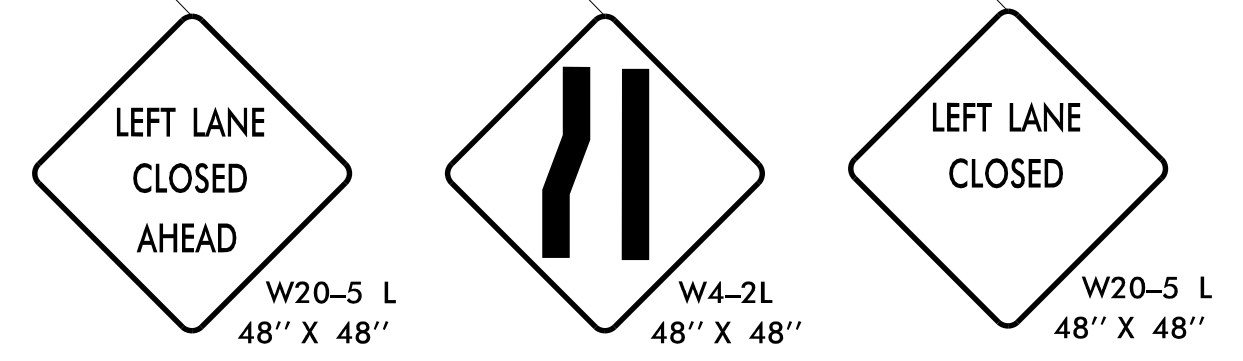
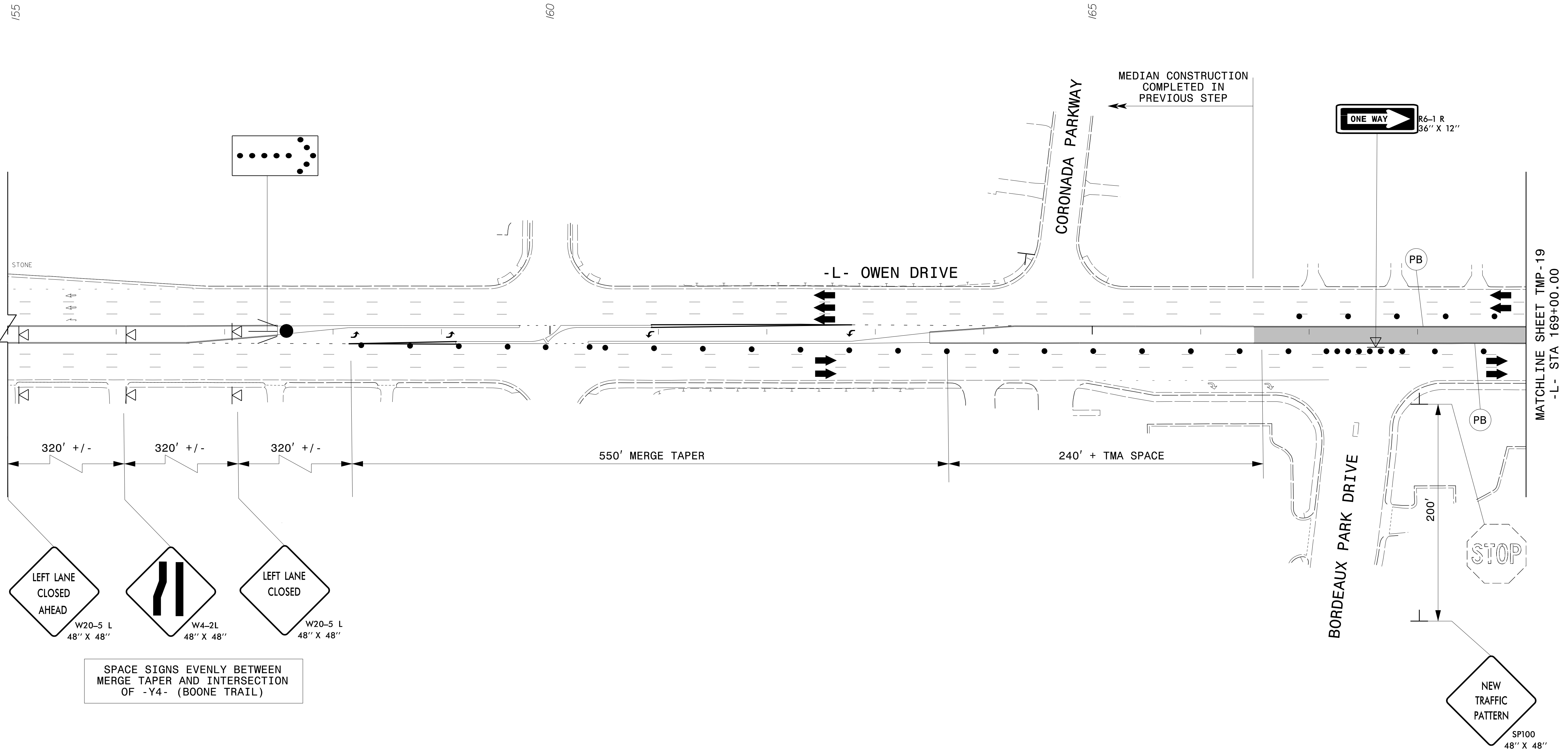
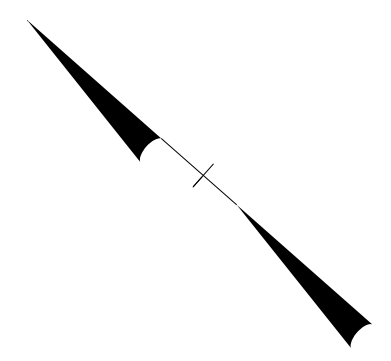
4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514_tcp_tmp.16.dgn
 User: tmthigben

APPROVED: _____ DATE: _____		<p>PHASE II STEP 2 DETAIL</p>



4/7/2015
 \\vnb\pro\raleigh\38286.03 NCD01 W-5514 Owen Drive\NCD01\TrafficControl\TCP\W5514-1c_tmp_17.dgn
 User: tmthigben

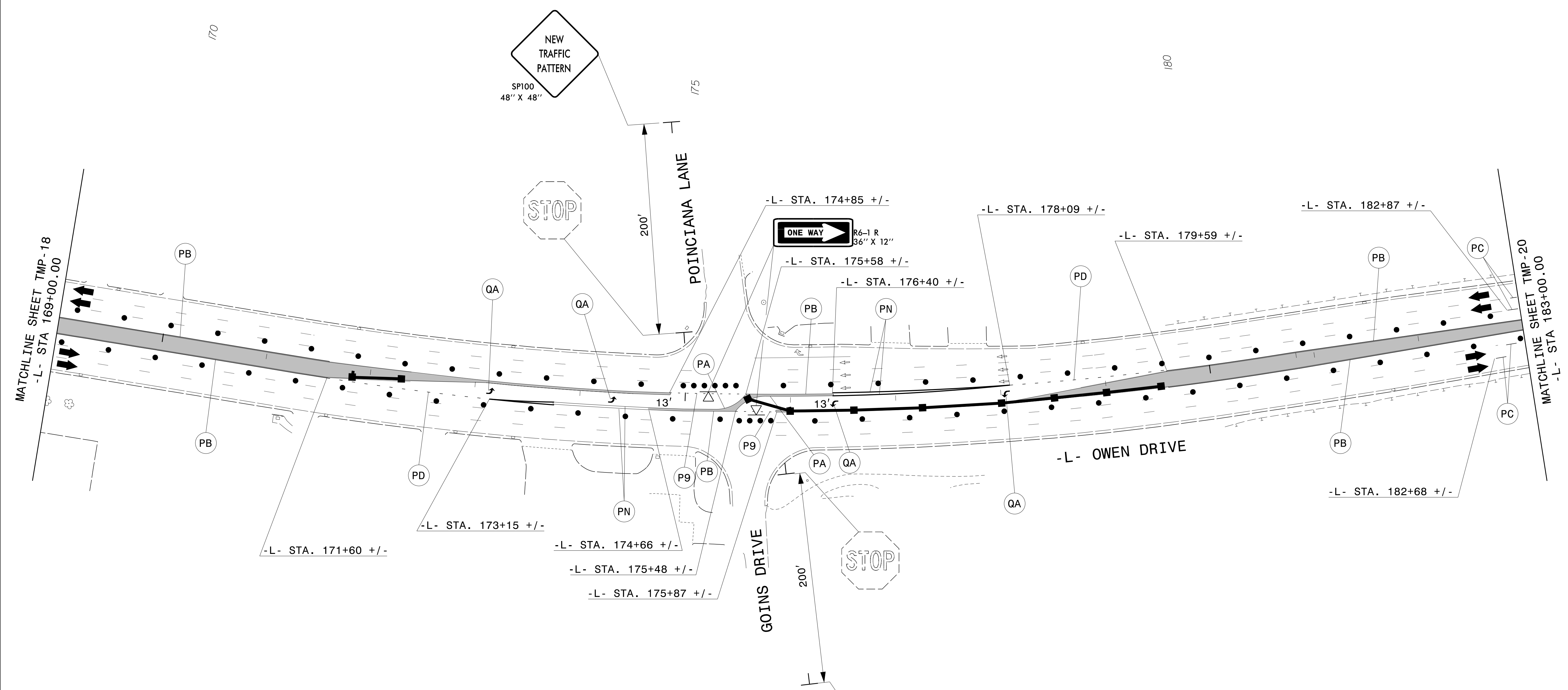
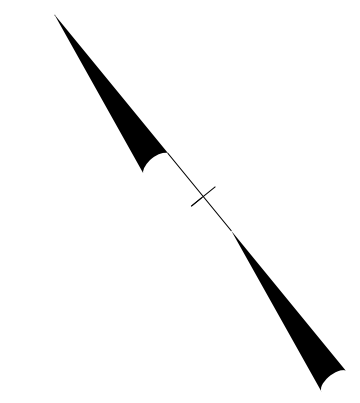
APPROVED: _____ DATE: _____			PHASE II STEP 2 DETAIL
SEAL			



SPACE SIGNS EVENLY BETWEEN MERGE TAPER AND INTERSECTION OF -Y4- (BOONE TRAIL)

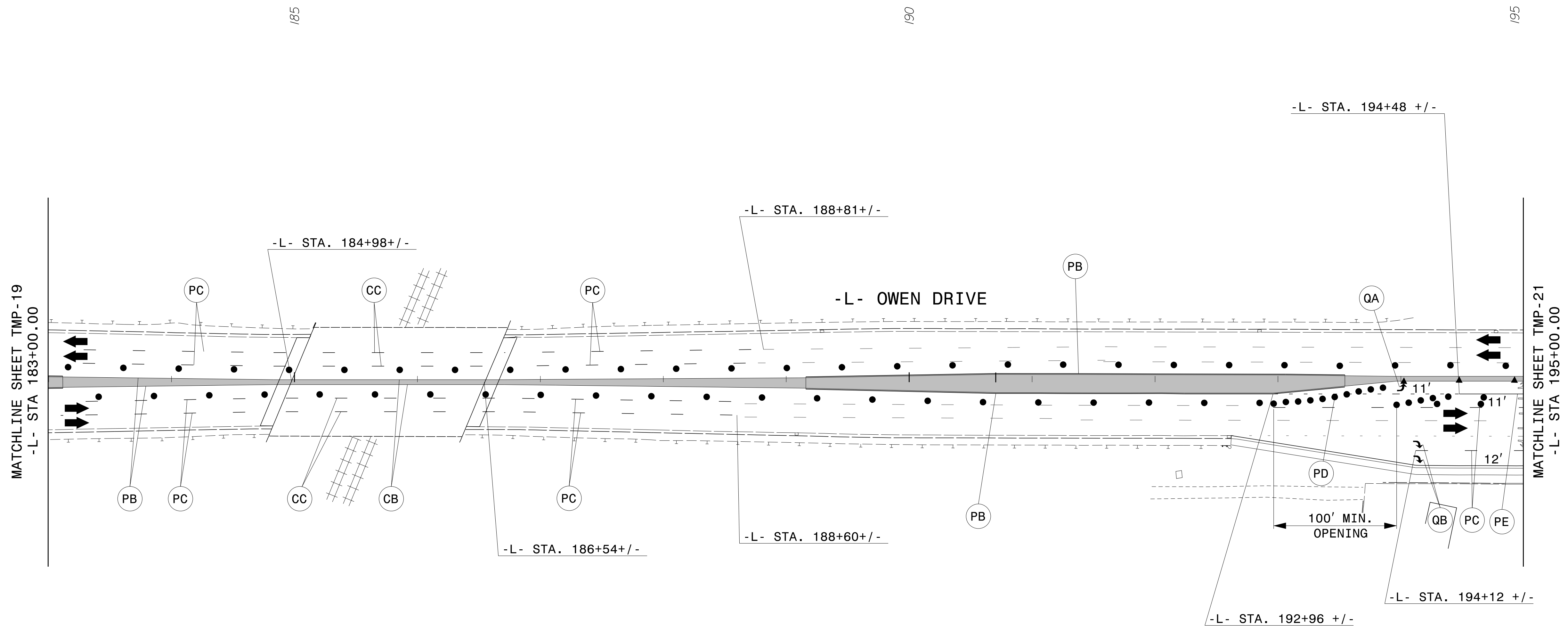
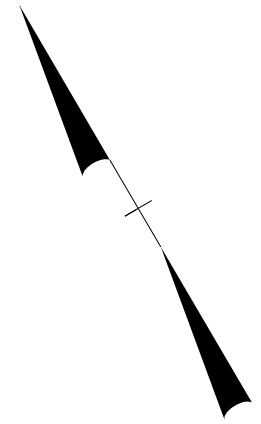
4/7/2015 \\vb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514_tc_tmp_18.dgn User:tmthigben

APPROVED: _____ DATE: _____		<p>PHASE II STEP 3 DETAIL</p>



4/7/2015
 \\vb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514_fc_tmp_19.dgn
 User: tmfjgben

APPROVED: _____ DATE: _____		PHASE II STEP 3 DETAIL



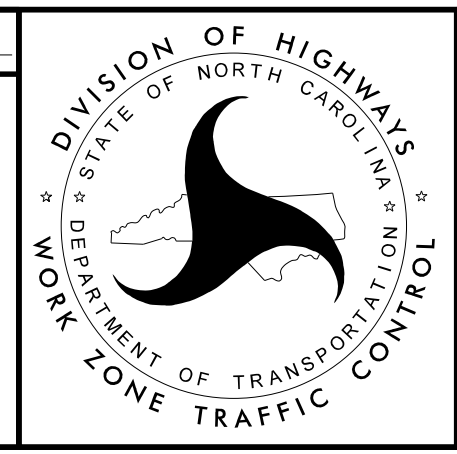
MATCHLINE SHEET TMP-19
-L- STA 183+00.00

MATCHLINE SHEET TMP-21
-L- STA 195+00.00

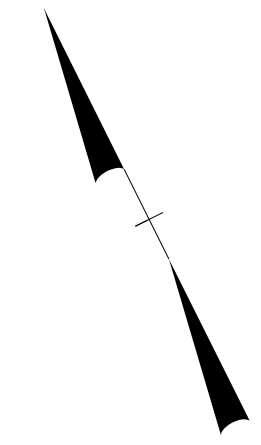
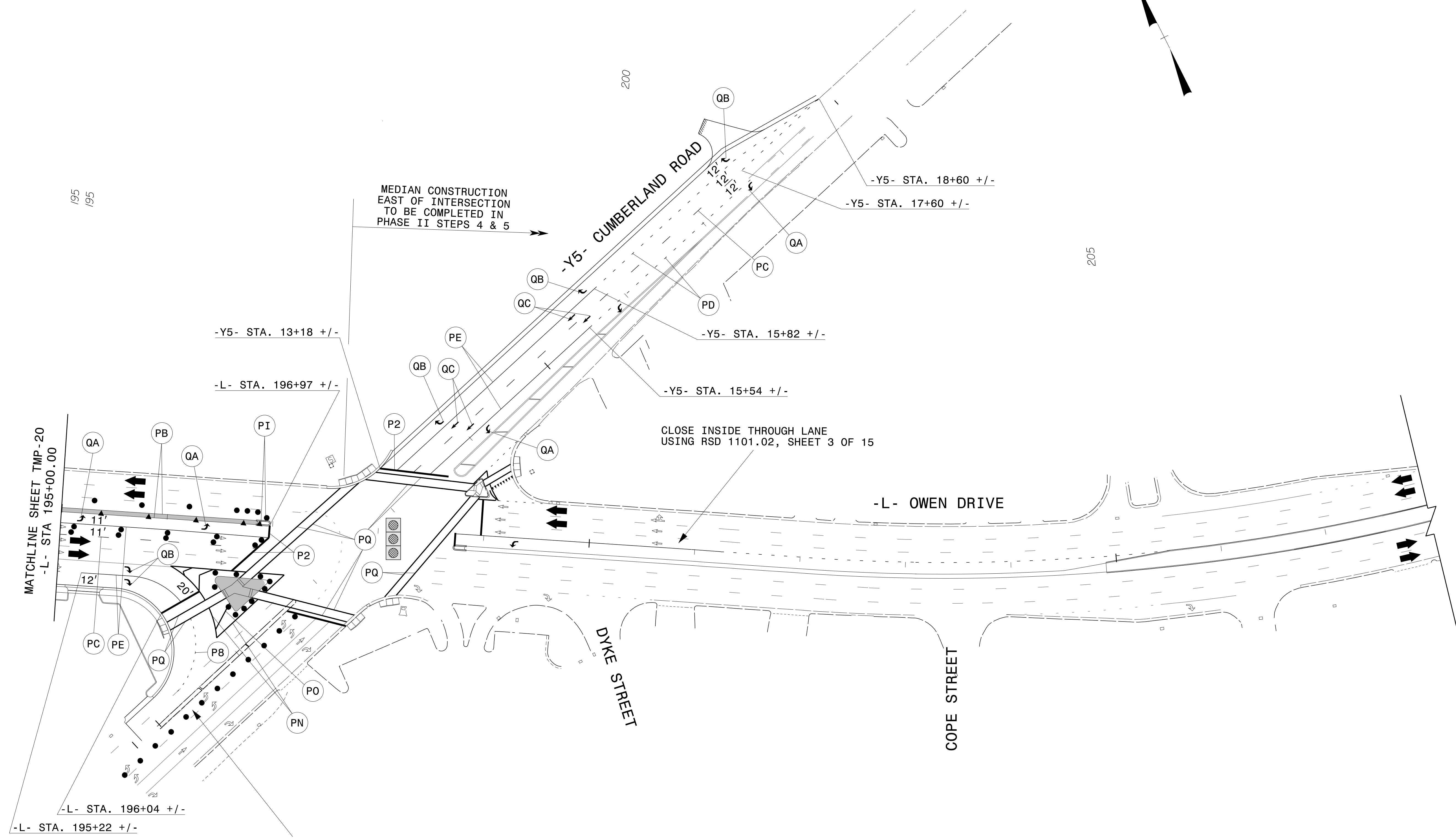
4/7/2015
 \\vnb\pro\Raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514_tc_tmp_20.dgn
 User: mthigben

APPROVED: _____ DATE: _____

SEAL

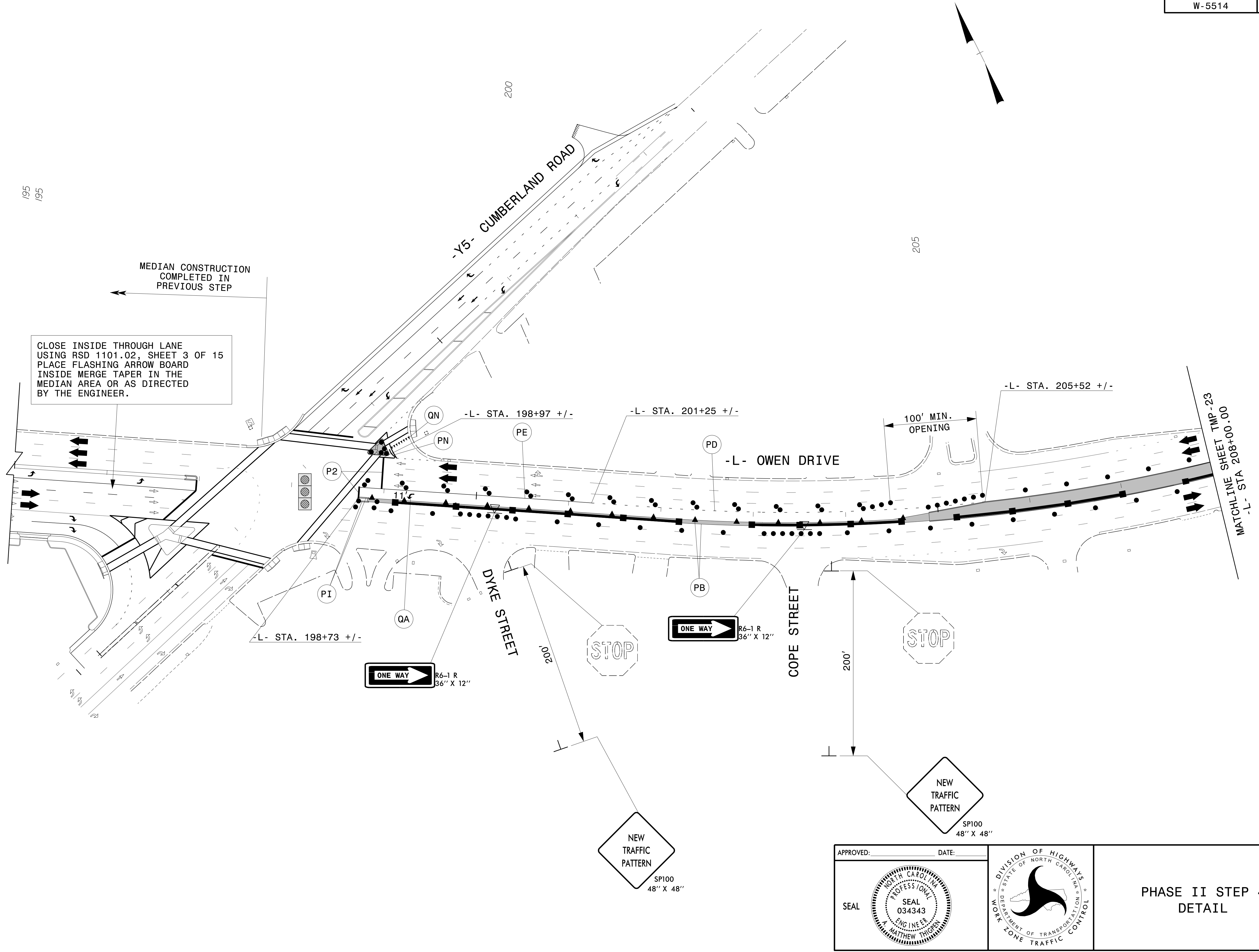


PHASE II STEP 3
DETAIL



4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c-tmp-21.dgn
 User: tmthigben

APPROVED: _____ DATE: _____			PHASE II STEP 3 DETAIL
SEAL			

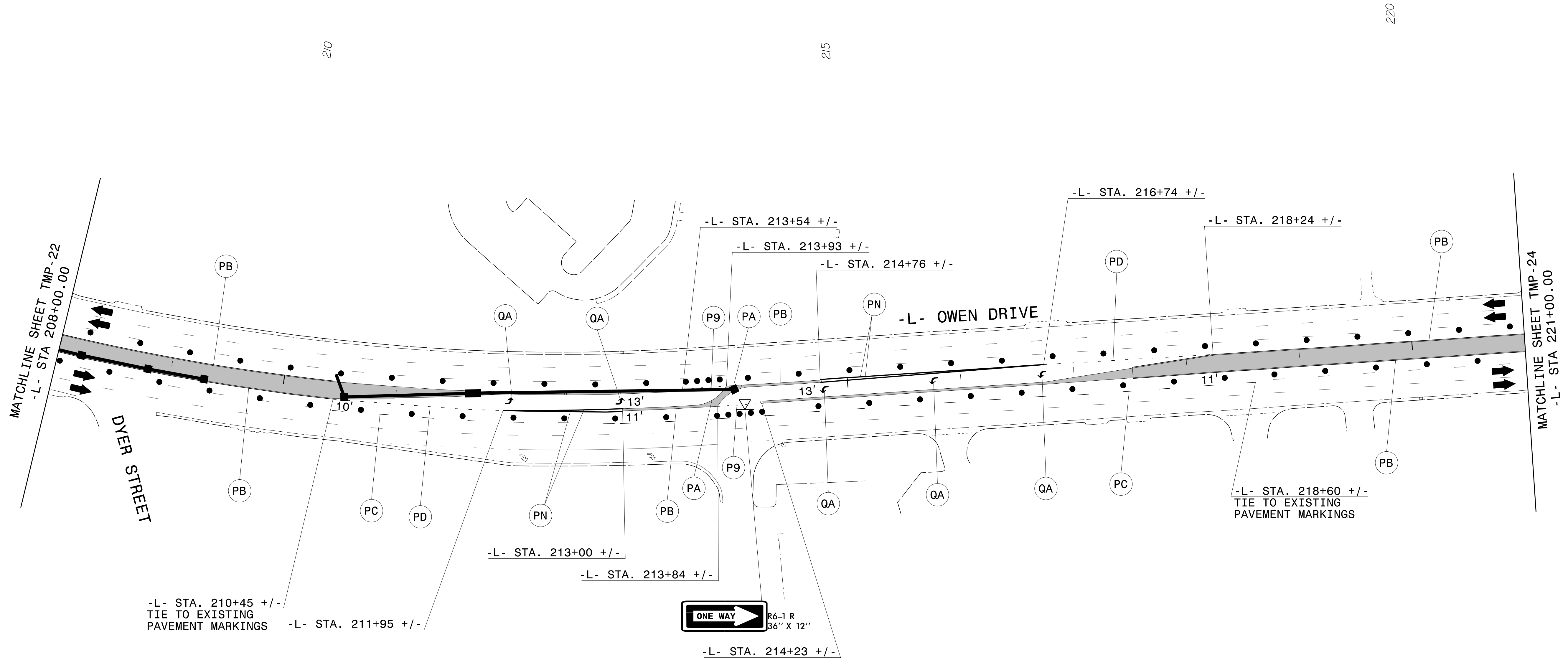
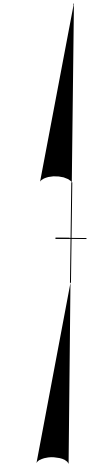


4/7/2015
 \\vb\proj\raleigh\38286.03 NCD01 W-5514 Owen Drive\NCD01\TrafficControl\TCP\W5514-1c-tmp.22.dgn
 User: tmthigben

APPROVED:	DATE:

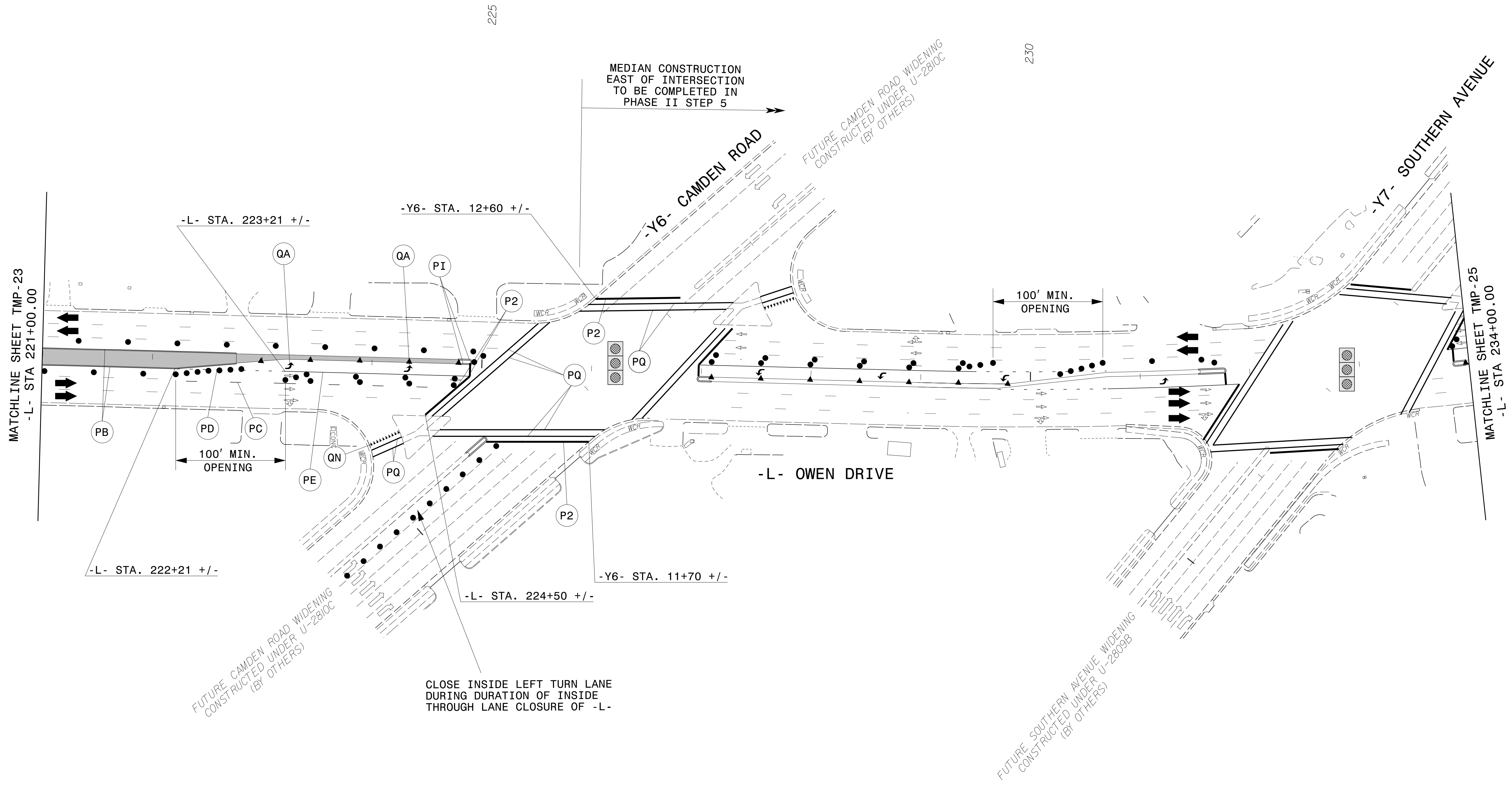
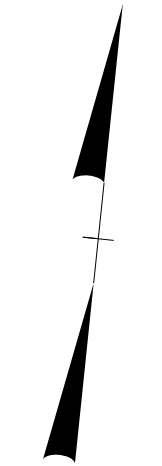


**PHASE II STEP 4
 DETAIL**



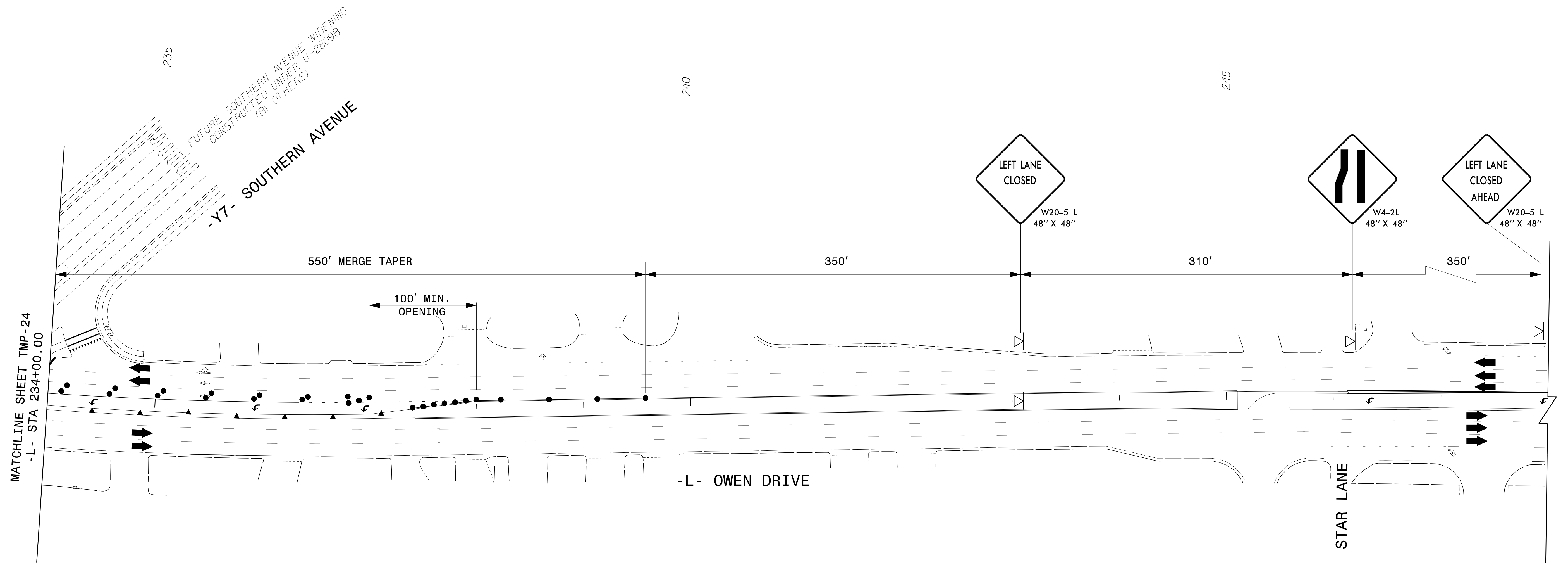
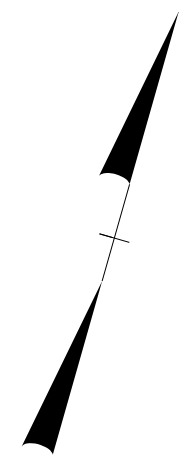
4/7/2015 \\vb\pro\Raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c_tmp_23.dgn User:tmthigben

APPROVED: _____ DATE: _____		<p>PHASE II STEP 4 DETAIL</p>



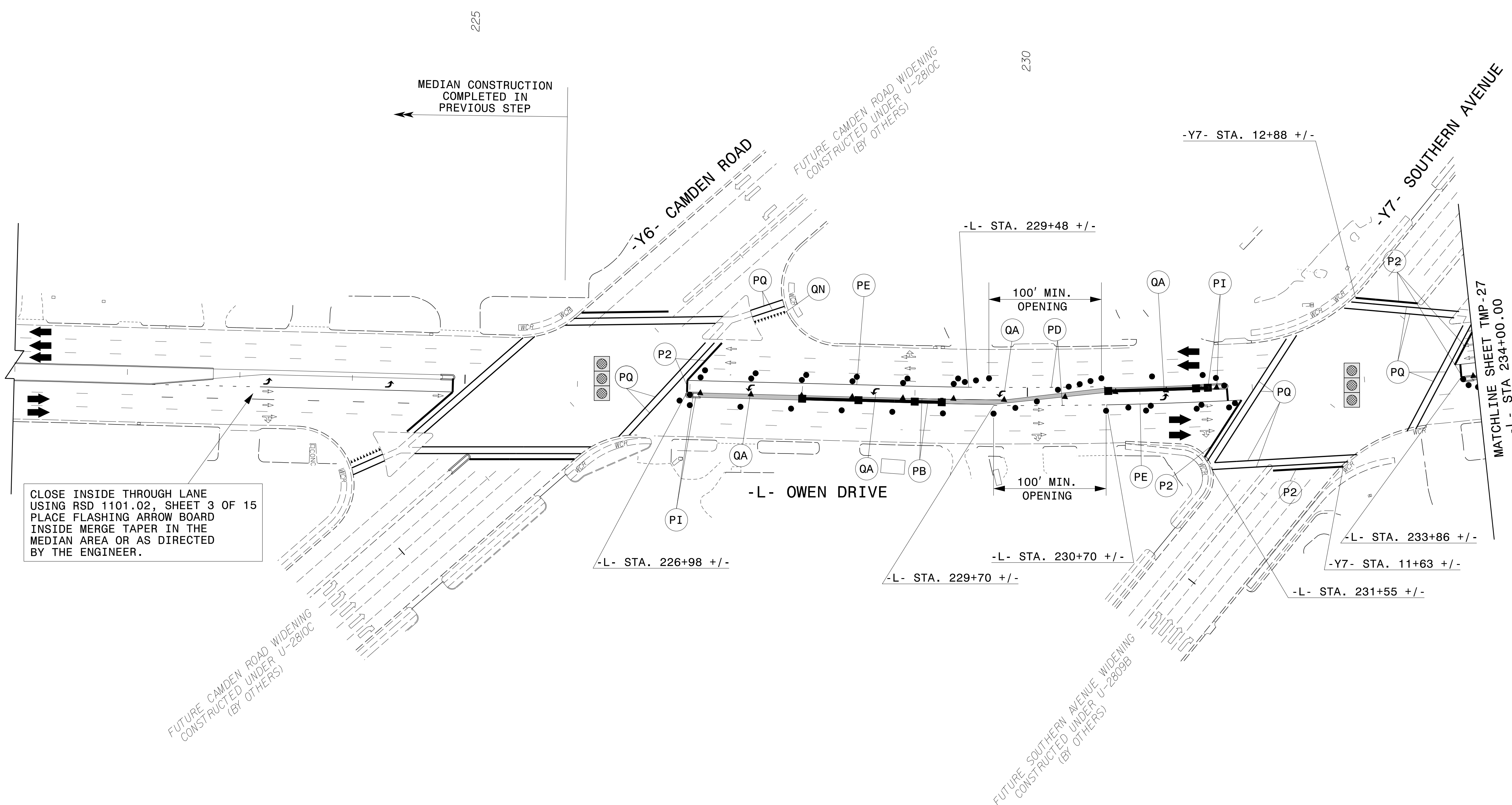
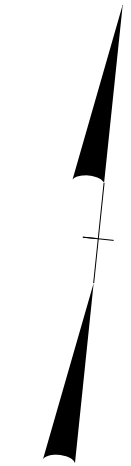
4/7/2015
 \\vb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c_tmp_24.dgn
 User: tmthigben

APPROVED: _____ DATE: _____		<p style="text-align: center;">PHASE II STEP 4 DETAIL</p>



4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\Traffic\TrafficControl\TCP\W5514_tc_tmp_25.dgn
 User:tmthigben

APPROVED: _____ DATE: _____		<p>PHASE II STEP 4 DETAIL</p>



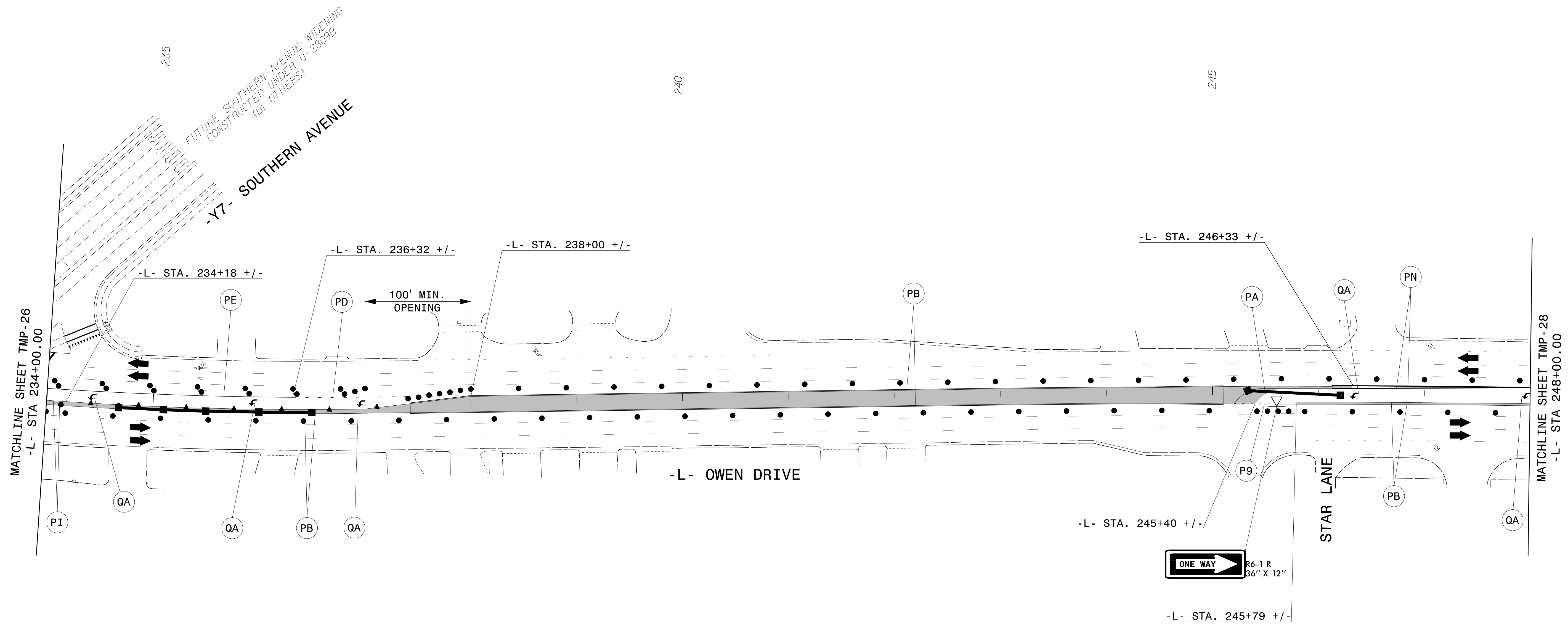
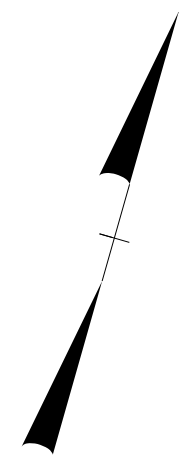
CLOSE INSIDE THROUGH LANE USING RSD 1101.02, SHEET 3 OF 15 PLACE FLASHING ARROW BOARD INSIDE MERGE TAPER IN THE MEDIAN AREA OR AS DIRECTED BY THE ENGINEER.

FUTURE CAMDEN ROAD WIDENING CONSTRUCTED UNDER U-2810C (BY OTHERS)

FUTURE SOUTHERN AVENUE WIDENING CONSTRUCTED UNDER U-2809B (BY OTHERS)

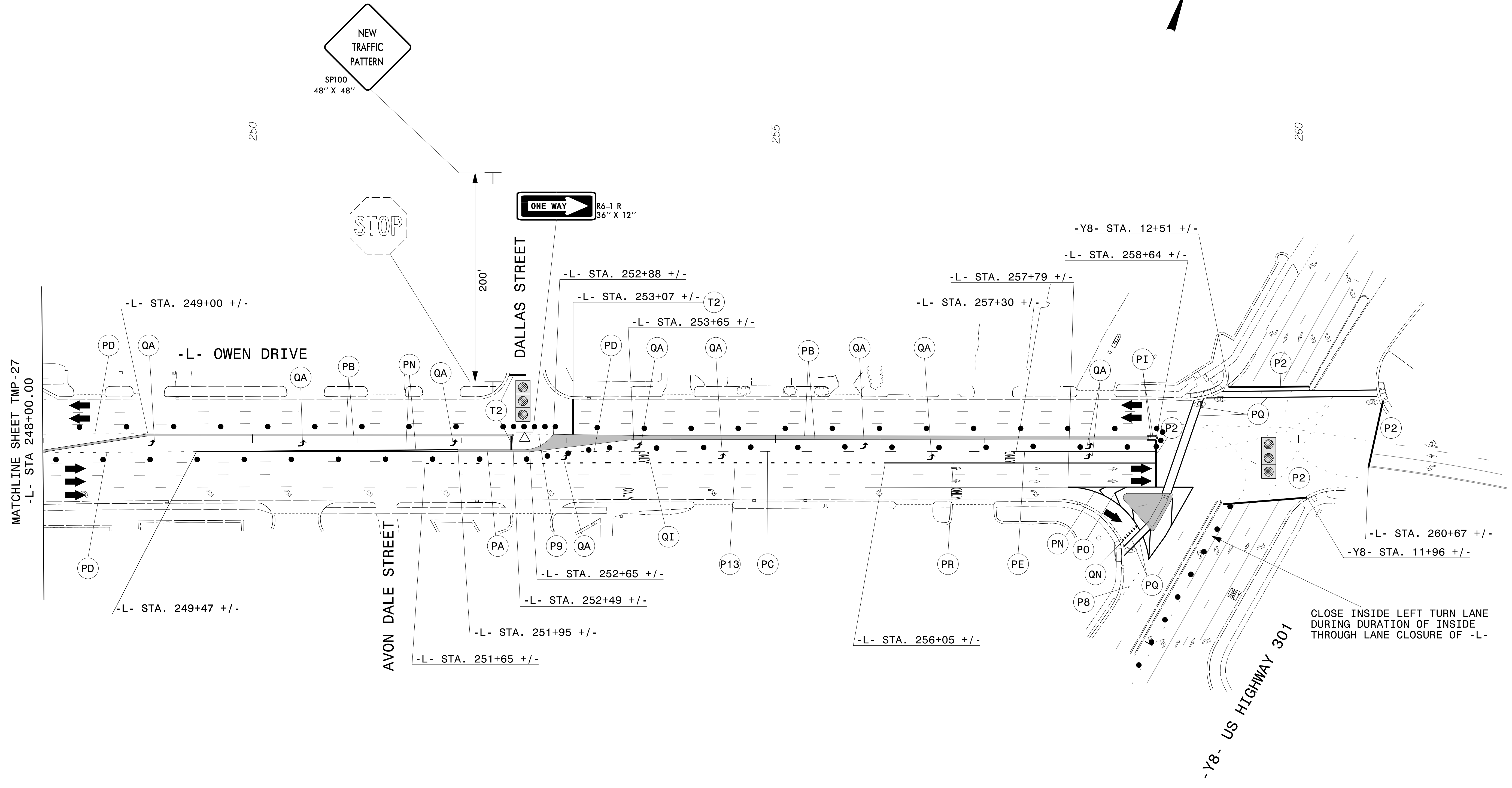
4/7/2015 \\vnb\proj\Raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514.tc_tmp_26.dgn User:tmthigben

APPROVED: _____ DATE: _____		<p>PHASE II STEP 5 DETAIL</p>



4/7/2015
 \\vnb\pro\raleigh\38286.03 NCDOT W-5514 Owen Drive\NCDOT\TrafficControl\TCP\W5514-1c_tmp_27.dgn
 User: tmthigben

APPROVED: _____ DATE: _____		PHASE II STEP 5 DETAIL



4/7/2015
 \\vnb\pro\raleigh\38286.03 NCD01 W-5514 Owen Drive\NCD01\TrafficControl\TCP\W5514-1c-tmp_28.dgn
 User: tmthigben

APPROVED: _____ DATE: _____			<p style="text-align: center;">PHASE II STEP 5 DETAIL</p>