

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
Y-4806AA	TCP-1

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

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
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES - TYPE III
1150.01	FLAGGING DEVICES
1180.01	SKINNY DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	PAVEMENT MARKER SPACING
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS

INDEX OF SHEETS

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TCP-7	PHASE II PHASING
TCP-8 THRU TCP-10	PHASE II DETAILS
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TCP-12 THRU TCP-14	PHASE III DETAILS
TCP-15 THRU TCP-17	CLOSURE DETAILS
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TCP-19	SIGN DESIGN
PM-1 THRU PM-3	PAVEMENT MARKING PLANS

LEGEND

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

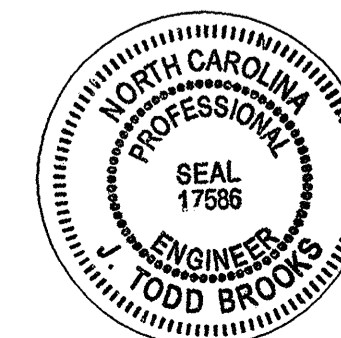
TIP PROJECT:

PLAN REVIEWED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT

STUART BOURNE, P.E. TRAFFIC CONTROL ENGINEER
STEVE KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER
TRAFFIC CONTROL PROJ. DESIGN ENGINEER
TRAFFIC CONTROL DESIGN ENGINEER

APPROVED:
DATE: 7-9-08

SEAL



PLAN PREPARED FOR N.C.D.O.T. BY: **PBSJ** 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
PHONE: (919) 876-6888

J.T. BROOKS, P.E. PROJECT ENGINEER
J.A. WILES DESIGN ENGINEER
J.A. WILES DESIGN TECHNICIAN

GENERAL NOTES

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

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

TIME RESTRICTIONS

B) DO NOT STOP TRAFFIC FOR MORE THAN 15 MINUTES AS FOLLOWS:

ROAD NAME	OPERATION
ALL ROADS	TRAFFIC SHIFTS

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 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.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- G) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.
- H) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING ROADWAY IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:
 - BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
 - BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
 - BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- J) DO NOT EXCEED A DIFFERENCE OF 1.5 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- K) 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.
- WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT.

L)

- M) PROVIDE PERMANENT SIGNING.
- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- O) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) 500 FT IN ADVANCE OF THE UNEVEN AREA.
- P) INSTALL BLACK ON ORANGE "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA.

TRAFFIC CONTROL DEVICES

- Q) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- R) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
1. ALL ROADS	THERMOPLASTIC	SNOWFLOWABLE RAISED
- T) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
1. ALL ROADS	PAINT	NONE
- U) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.
- V) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.
- W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

MISCELLANEOUS

- X) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.
- Y) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "DIP" SIGNS (W8-2) AND OR "BUMP" SIGNS IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.
- Z) PROTECT PEDESTRIANS WHEN THEY ARE IN THE VICINITY OF AREAS OF OPEN EXCAVATION SUCH AS CATCH BASIN CONSTRUCTION OR JACK AND BORE PITS. INSTALL ORANGE CONSTRUCTION FENCING (I.E. TREE PROTECTION BARRICADE) AROUND THOSE AREAS IN ORDER TO KEEP PEDESTRIANS AT A SAFE DISTANCE.

APPROVED: DATE: 7/9/08 <div style="text-align: center;"> SEAL ENGINEER TODD BROOKS </div>	<h2 style="margin: 0;">PROJECT NOTES</h2> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">SCALE:</td> <td style="width: 30%;">NONE</td> <td rowspan="5" style="width: 30%; text-align: center;"> </td> <td style="width: 10%;">REVISIONS</td> </tr> <tr> <td>DATE:</td> <td>7/9/08</td> <td></td> </tr> <tr> <td>DWG. BY:</td> <td>AW</td> <td></td> </tr> <tr> <td>DESIGN BY:</td> <td>AW</td> <td></td> </tr> <tr> <td>REVIEWED BY:</td> <td>TB</td> <td></td> </tr> </table>	SCALE:	NONE		REVISIONS	DATE:	7/9/08		DWG. BY:	AW		DESIGN BY:	AW		REVIEWED BY:	TB	
SCALE:	NONE		REVISIONS														
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PHASING

PHASE I

NOTES: RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK DAY UNLESS OTHERWISE STATED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED CONSTRUCTION IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

PRIOR TO ANY CONSTRUCTION OPERATIONS, PLACE ADVANCED SIGNING IN ACCORDANCE WITH NCDOT DETAIL SHOWN ON SHEET TCP-18.

STEP 1 PRIOR TO BEGINNING ANY PROPOSED PHASE I CONSTRUCTION, ALTER THE EXISTING TRAFFIC PATTERN AS DETAILED BELOW. REFER TO SHEETS TCP-4 THRU TCP-6.

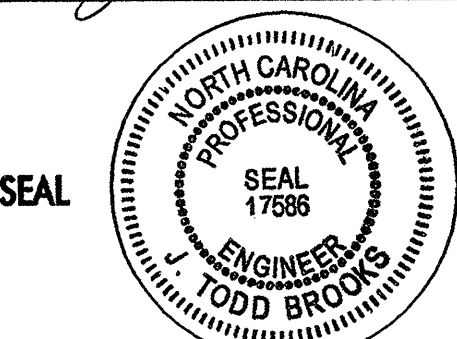
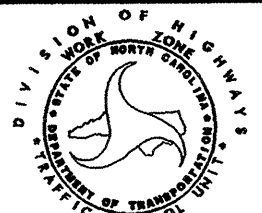
- * CLOSE McIVER STREET EASTBOUND RIGHT THROUGH LANE AS SHOWN ON SHEET TCP-4.
- * CLOSE THE EASTBOUND RUSSELL STREET RIGHT THROUGH LANE BETWEEN ROBESON STREET AND WINSLOW STREET. SEE SHEET TCP-4.
- * CLOSE THE EXISTING PARKING SPACES ON THE SOUTH SIDE OF RUSSELL STREET BETWEEN WINSLOW STREET AND RAY AVENUE AS DETAILED ON SHEETS TCP-4 AND TCP-5.
- * CLOSE SOUTH LEG OF WILLIAMS STREET AT RUSSELL STREET AND DETOUR PEDESTRIAN TRAFFIC AS SHOWN ON SHEET TCP-15 ONLY DURING DRAINAGE CONSTRUCTION.
- * INSTALL TYPE III BARRICADES AS SHOWN ON SHEET TCP-6 TO PERMANENTLY CLOSE DONALDSON STREET / WORTH STREET GRADE CROSSING. REVISE PAVEMENT MARKINGS AND SIGNING ON WORTH STREET AS SHOWN ON TCP-6.

PLACE TEMPORARY PEDESTRIAN CROSSWALK AND WARNING SIGNS JUST WEST OF RAY AVENUE AS SHOWN ON SHEET TCP-5. DETOUR RUSSELL STREET PEDESTRIAN TRAFFIC AS SHOWN ON SHEETS TCP-4 THROUGH TCP-6.

STEP 2 WHILE MAINTAINING EASTBOUND AND WESTBOUND TRAFFIC ON RUSSELL STREET IN THE ABOVE MENTIONED ALTERED PATTERNS, CONSTRUCT THE FOLLOWING:

- * RUSSELL STREET SOUTH SIDE PROPOSED DRAINAGE, C&G AND SIDEWALK FROM -L- STA. 13+75 UP TO AND INCLUDING THE SOUTHWEST RADIUS OF RUSSELL AND WINSLOW STREETS. SEE SHEET TCP-4.
- * RUSSELL STREET SOUTH SIDE PROPOSED DRAINAGE, C&G AND SIDEWALK FROM AND INCLUDING THE SE RADIUS OF RUSSELL AND WINSLOW STREETS TO -L- STA. 22+68. REFER TO SHEETS TCP-4 AND TCP-5. AS SHOWN ON SHEET TCP-4, STAGE CONSTRUCTION OF THE SW & SE RADII OF RUSSELL AND WINSLOW STREETS SO THAT NORTHBOUND WINSLOW STREET PEDESTRIANS HAVE ACCESS TO ONE OF THOSE RADII AT ALL TIMES. WHEN CONSTRUCTION OF THOSE RADII ENCORACHES UPON WINSLOW STREET TRAFFIC, CLOSE THE ADJACENT LANE AS SHOWN ON SHEET TCP-4.

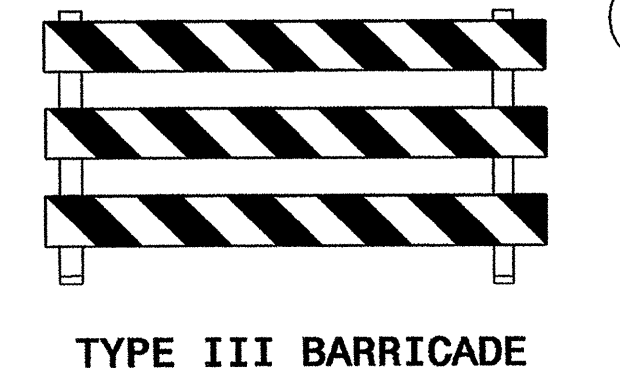
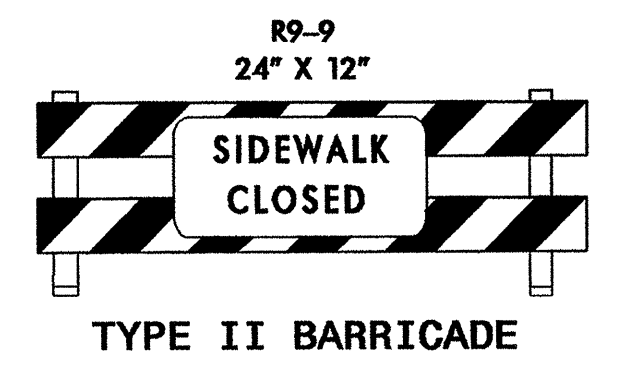
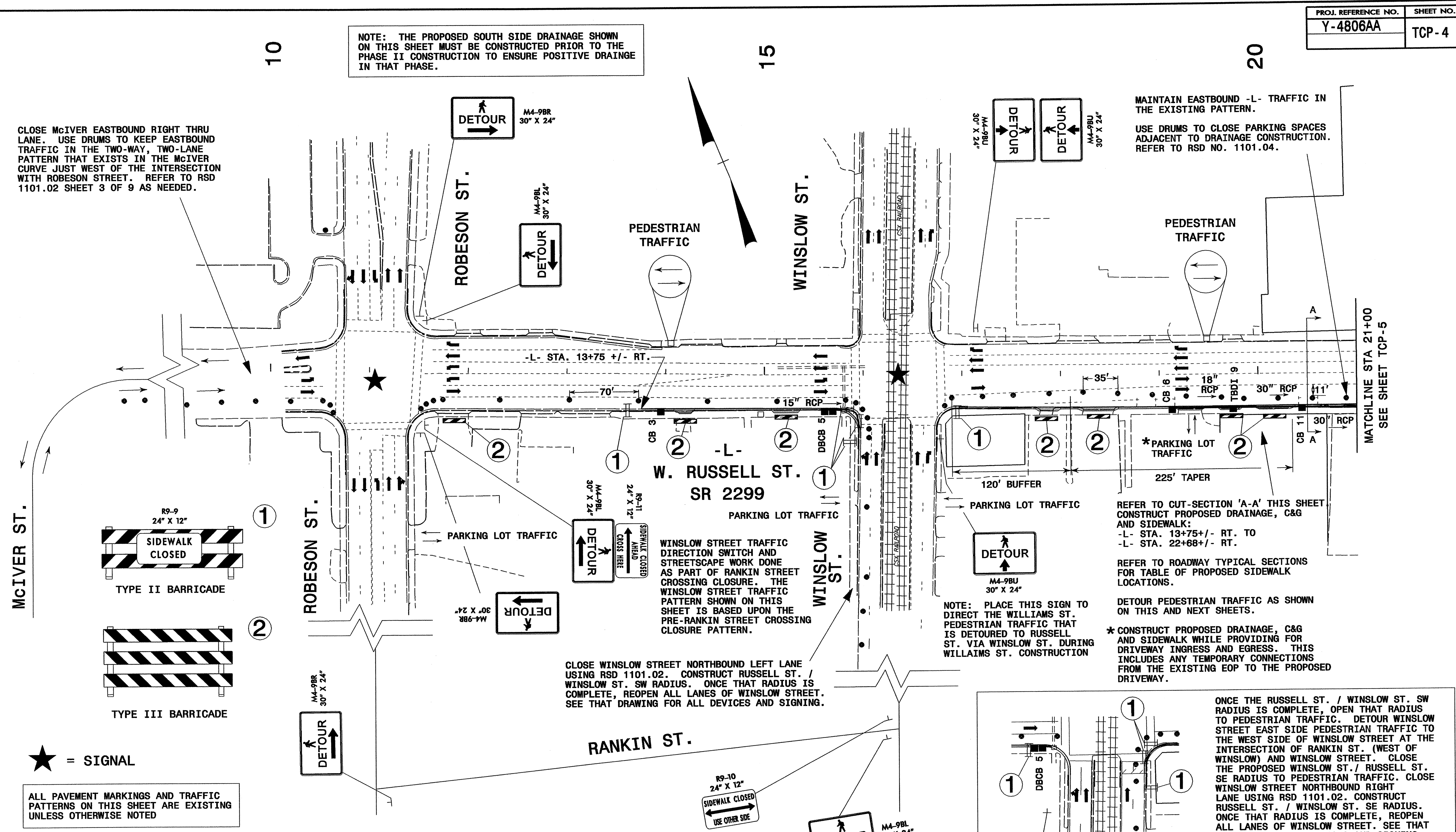
NOTE: STAGE CONSTRUCTION OF ABOVE PROPOSED DRAINAGE SO THAT A POSITIVE FLOW IS MAINTAINED. REFER TO THE ROADWAY CONSTRUCTION PLANS AND SHEETS TCP-4 AND TCP-5 FOR FLOW INDICATORS.

APPROVED: <i>[Signature]</i> DATE: 7/9/08 	<h3 style="margin: 0;">PHASE I PHASING</h3>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISIONS											
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REVIEWED BY:	TB													
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NOTE: THE PROPOSED SOUTH SIDE DRAINAGE SHOWN ON THIS SHEET MUST BE CONSTRUCTED PRIOR TO THE PHASE II CONSTRUCTION TO ENSURE POSITIVE DRAINAGE IN THAT PHASE.

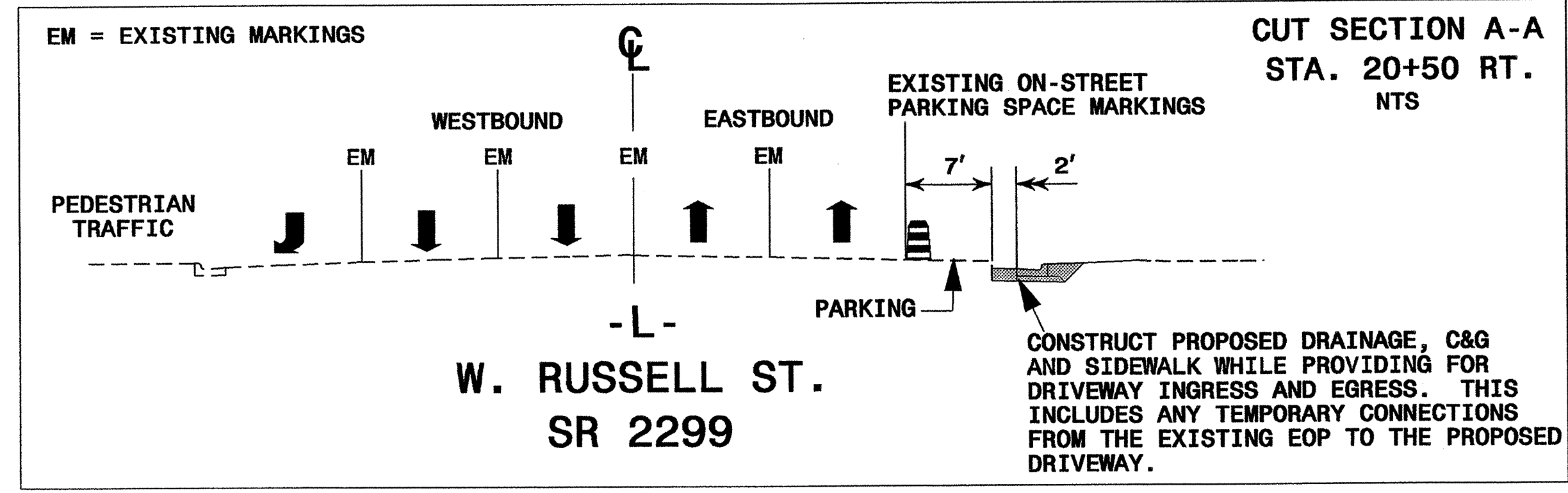
CLOSE McIVER EASTBOUND RIGHT THRU LANE. USE DRUMS TO KEEP EASTBOUND TRAFFIC IN THE TWO-WAY, TWO-LANE PATTERN THAT EXISTS IN THE McIVER CURVE JUST WEST OF THE INTERSECTION WITH ROBESON STREET. REFER TO RSD 1101.02 SHEET 3 OF 9 AS NEEDED.

MAINTAIN EASTBOUND -L- TRAFFIC IN THE EXISTING PATTERN.
 USE DRUMS TO CLOSE PARKING SPACES ADJACENT TO DRAINAGE CONSTRUCTION. REFER TO RSD NO. 1101.04.



★ = SIGNAL

ALL PAVEMENT MARKINGS AND TRAFFIC PATTERNS ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED



WINSLOW STREET TRAFFIC DIRECTION SWITCH AND STREETScape WORK DONE AS PART OF RANKIN STREET CROSSING CLOSURE. THE WINSLOW STREET TRAFFIC PATTERN SHOWN ON THIS SHEET IS BASED UPON THE PRE-RANKIN STREET CROSSING CLOSURE PATTERN.

CLOSE WINSLOW STREET NORTHBOUND LEFT LANE USING RSD 1101.02. CONSTRUCT RUSSELL ST. / WINSLOW ST. SW RADIUS. ONCE THAT RADIUS IS COMPLETE, REOPEN ALL LANES OF WINSLOW STREET. SEE THAT DRAWING FOR ALL DEVICES AND SIGNING.

NOTE: PLACE THIS SIGN TO DIRECT THE WILLIAMS ST. PEDESTRIAN TRAFFIC THAT IS DETOURED TO RUSSELL ST. VIA WINSLOW ST. DURING WILLIAMS ST. CONSTRUCTION

REFER TO CUT-SECTION 'A-A' THIS SHEET CONSTRUCT PROPOSED DRAINAGE, C&G AND SIDEWALK:
 -L- STA. 13+75 +/- RT. TO
 -L- STA. 22+68 +/- RT.

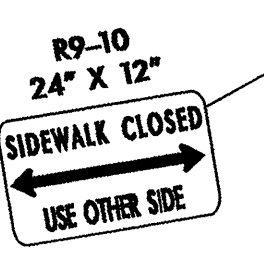
REFER TO ROADWAY TYPICAL SECTIONS FOR TABLE OF PROPOSED SIDEWALK LOCATIONS.

DETOUR PEDESTRIAN TRAFFIC AS SHOWN ON THIS AND NEXT SHEETS.

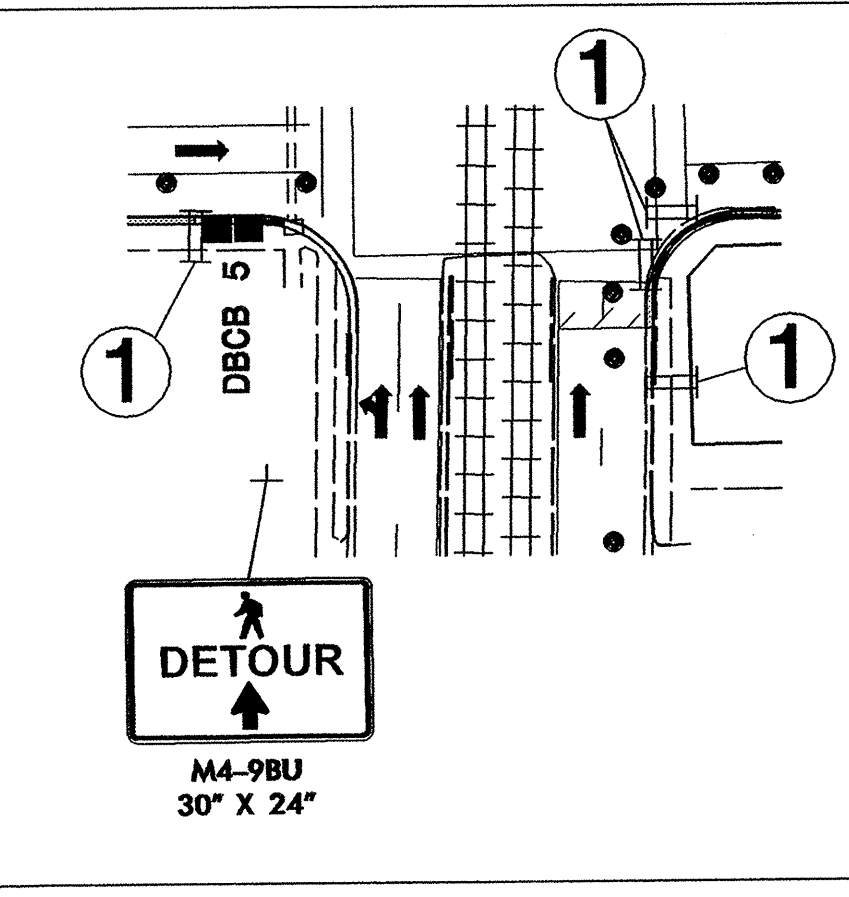
* CONSTRUCT PROPOSED DRAINAGE, C&G AND SIDEWALK WHILE PROVIDING FOR DRIVEWAY INGRESS AND EGRESS. THIS INCLUDES ANY TEMPORARY CONNECTIONS FROM THE EXISTING EOP TO THE PROPOSED DRIVEWAY.

ONCE THE RUSSELL ST. / WINSLOW ST. SW RADIUS IS COMPLETE, OPEN THAT RADIUS TO PEDESTRIAN TRAFFIC. DETOUR WINSLOW STREET EAST SIDE PEDESTRIAN TRAFFIC TO THE WEST SIDE OF WINSLOW STREET AT THE INTERSECTION OF RANKIN ST. (WEST OF WINSLOW) AND WINSLOW STREET. CLOSE THE PROPOSED WINSLOW ST. / RUSSELL ST. SE RADIUS TO PEDESTRIAN TRAFFIC. CLOSE WINSLOW STREET NORTHBOUND RIGHT LANE USING RSD 1101.02. CONSTRUCT RUSSELL ST. / WINSLOW ST. SE RADIUS. ONCE THAT RADIUS IS COMPLETE, REOPEN ALL LANES OF WINSLOW STREET. SEE THAT DRAWING FOR ALL DEVICES AND SIGNING.

DO NOT PERFORM THE ABOVE OPERATION UNTIL THE WILLIAMS STREET SE RADIUS IS COMPLETE AND REOPENED TO PEDESTRIAN TRAFFIC. THAT NEGATES ANY ADDITIONAL PEDESTRIAN TRAFFIC COMING FROM THE WILLIAMS STREET PED DETOUR.



IN ORDER TO AVOID ENTRAPMENT AT THE SW RADIUS OF WINSLOW AND RUSSELL STREETS, DETOUR THE WINSLOW WESTERN SIDE PEDESTRIAN TRAFFIC TO RUSSELL STREET VIA ROBESON STREET AT THE INTERSECTION RANKIN AND WINSLOW STREETS.



APPROVED: [Signature] DATE: 7/9/08

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17588 TODD BROOKS

PHASE I DETAILS
 -L- STA. 10+00 TO -L- STA. 21+00

SCALE: 1" = 50'

DATE: 7/9/08

DWG. BY: AW

DESIGN BY: AW

REVIEWED BY: TB

REVISIONS

NOTE: THE PROPOSED SOUTH SIDE DRAINAGE SHOWN ON THIS SHEET MUST BE CONSTRUCTED PRIOR TO THE PHASE II CONSTRUCTION TO ENSURE POSITIVE DRAINAGE IN THAT PHASE.

MAINTAIN EASTBOUND -L- TRAFFIC IN THE EXISTING PATTERN.
 USE DRUMS TO CLOSE PARKING SPACES ADJACENT TO DRAINAGE CONSTRUCTION. REFER TO RSD NO. 1101.04.

REFER TO CUT SECTION 'A-A' ON PREVIOUS SHEET. CONSTRUCT PROPOSED DRAINAGE, C&G AND SIDEWALK:
 -L- STA. 13+75 +/- RT. TO
 -L- STA. 22+68 +/- RT.

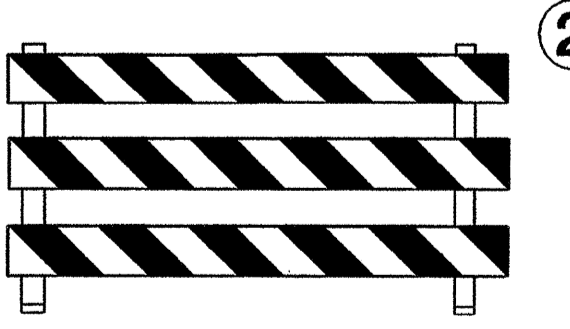
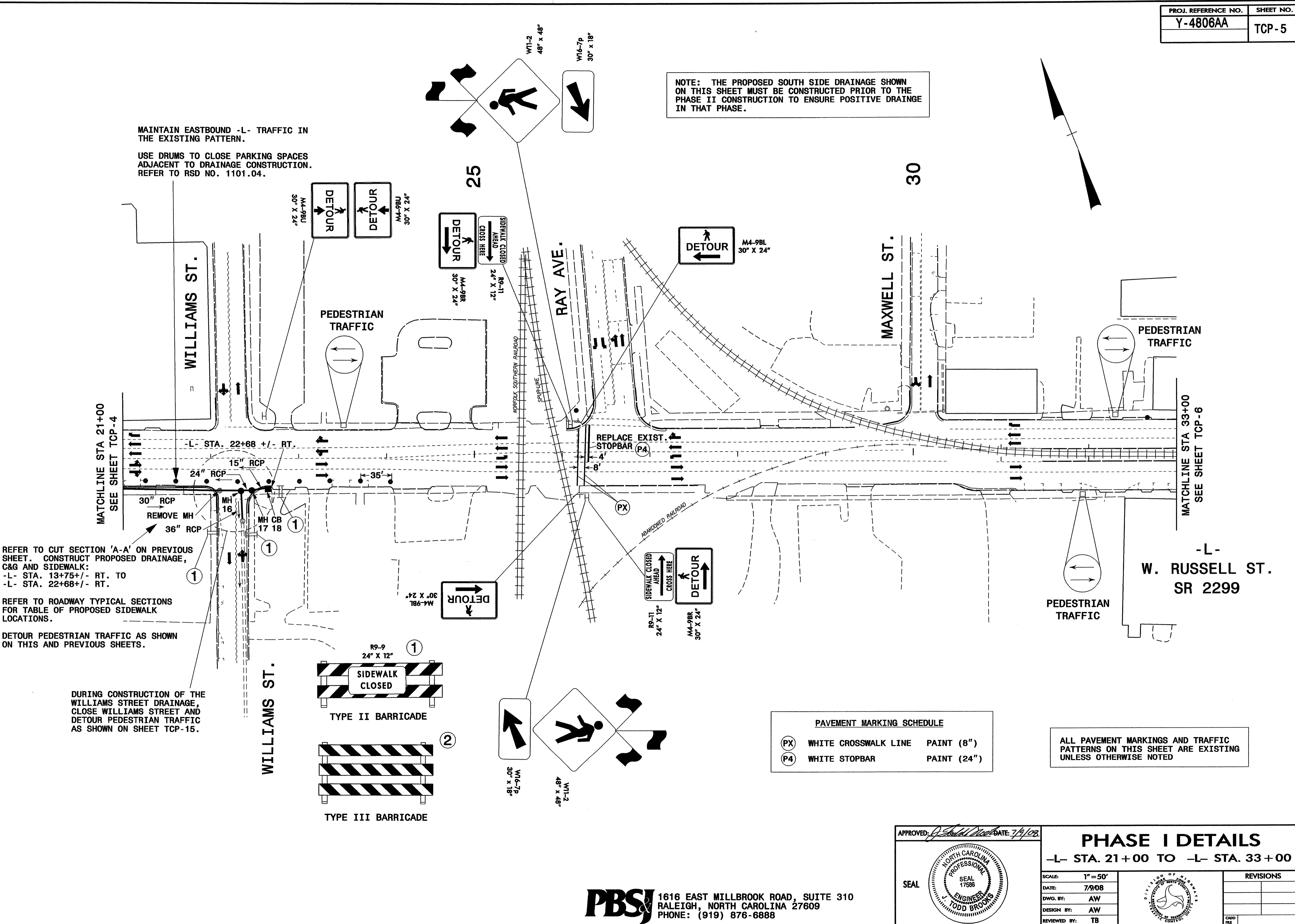
REFER TO ROADWAY TYPICAL SECTIONS FOR TABLE OF PROPOSED SIDEWALK LOCATIONS.

DETOUR PEDESTRIAN TRAFFIC AS SHOWN ON THIS AND PREVIOUS SHEETS.

DURING CONSTRUCTION OF THE WILLIAMS STREET DRAINAGE, CLOSE WILLIAMS STREET AND DETOUR PEDESTRIAN TRAFFIC AS SHOWN ON SHEET TCP-15.

MATCHLINE STA 21+00
SEE SHEET TCP-4

MATCHLINE STA 33+00
SEE SHEET TCP-6



PAVEMENT MARKING SCHEDULE	
(PX)	WHITE CROSSWALK LINE PAINT (8")
(P4)	WHITE STOPBAR PAINT (24")

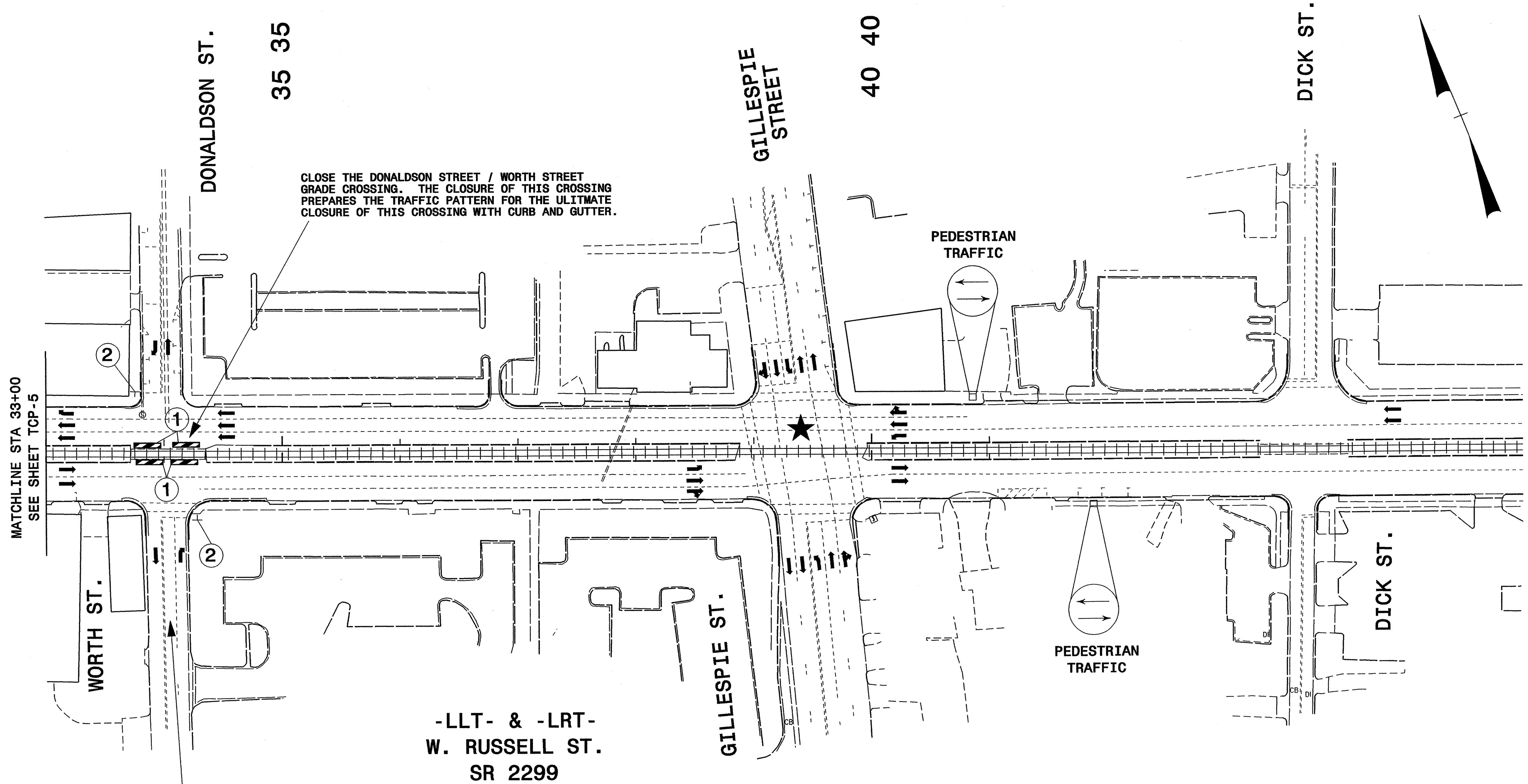
ALL PAVEMENT MARKINGS AND TRAFFIC PATTERNS ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED

APPROVED: *[Signature]* DATE: 7/9/08

SEAL

PHASE I DETAILS
 -L- STA. 21+00 TO -L- STA. 33+00

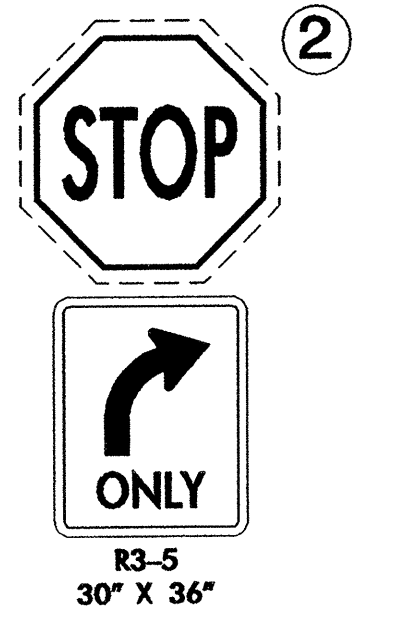
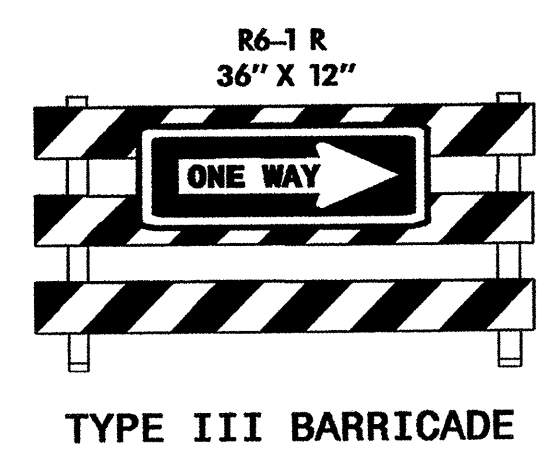
SCALE: 1" = 50'		REVISIONS
DATE: 7/9/08		
DWG. BY: AW		
DESIGN BY: AW		
REVIEWED BY: TB		



SEE SHEET PM-3. REVISE THE WORTH STREET EXISTING PAVEMENT MARKINGS AS SHOWN ON THAT SHEET IN ORDER TO COMPLY WITH CLOSURE OF THE WORTH STREET / DONALDSON STREET GRADE CROSSING.

★ = SIGNAL

ALL PAVEMENT MARKINGS AND TRAFFIC PATTERNS ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED



PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
PHONE: (919) 876-6888

APPROVED: *[Signature]* DATE: 7/9/08

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER
TODD BROOKS
SEAL 17688

PHASE I DETAILS		-L- STA. 33+00 TO -L- STA. 41+00	
SCALE:	1" = 50'	REVISIONS	
DATE:	7/9/08		
DWG. BY:	AW		
DESIGN BY:	AW		
REVIEWED BY:	TB		

PHASING

PHASE II

NOTES: RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK DAY UNLESS OTHERWISE STATED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED CONSTRUCTION IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

STEP 1 PRIOR TO BEGINNING ANY PROPOSED PHASE II CONSTRUCTION, PERFORM THE FOLLOWING:

- * MAINTAIN McIVER STREET EASTBOUND TRAFFIC IN ITS PHASE I PATTERN. SEE SHEET TCP-8.
- * MAINTAIN EASTBOUND RUSSELL STREET TRAFFIC BETWEEN ROBESON STREET AND WINSLOW STREET IN ITS PHASE I PATTERN. SEE SHEET TCP-8.
- * MAINTAIN EASTBOUND RUSSELL STREET TRAFFIC BETWEEN WINSLOW STREET AND RAY AVENUE IN ITS PHASE I PATTERN. SEE SHEETS TCP-8 & TCP-9.
- * CHANNELIZE THE RUSSELL STREET RIGHT EASTBOUND LANE BETWEEN RAY AVENUE AND GILLESPIE STREET AS SHOWN ON SHEETS TCP-9 AND TCP-10.

STEP 2 PERFORM THE FOLLOWING SIMULTANEOUSLY:

- * USING RSD 1101.02, CLOSE RIGHT WESTBOUND LANE OF RUSSELL STREET EAST OF THE GILLESPIE STREET INTERSECTION AS SHOWN ON SHEET TCP-10.
- * REOPEN WILLIAMS STREET SOUTH OF RUSSELL STREET TO TRAFFIC AS SHOWN ON SHEET TCP-9.
- * CLOSE WORTH STREET AS SHOWN ON SHEET TCP-10.
- * CLOSE WESTBOUND RUSSELL STREET TO TRAFFIC AND DETOUR THAT TRAFFIC AS SHOWN ON SHEETS TCP-8 THROUGH TCP-10.
- * CLOSE WILLIAMS STREET NORTH OF RUSSELL STREET. SEE TCP-9.
- * CLOSE RAY AVENUE. SEE TCP-9.
- * CLOSE MAXWELL STREET. SEE TCP-9.
- * CLOSE DONALDSON STREET. SEE TCP-10.
- * CLOSE THE GILLESPIE STREET NB LEFT TURN LANE. SEE SHEET TCP-10.

DETOUR RUSSELL STREET PEDESTRIAN TRAFFIC AS SHOWN ON SHEETS TCP-8 THROUGH TCP-10.

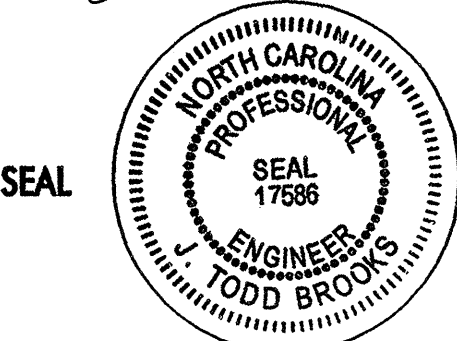

STEP 3 ONCE WESTBOUND RUSSELL STREET IS CLOSED, CONSTRUCT THE NORTH SIDE OF RUSSELL STREET AS SHOWN ON SHEETS TCP-8 THROUGH TCP-10 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. THIS INCLUDES ALL DRAINAGE CALLED OUT ON SHEETS TCP-8 THROUGH TCP-10.

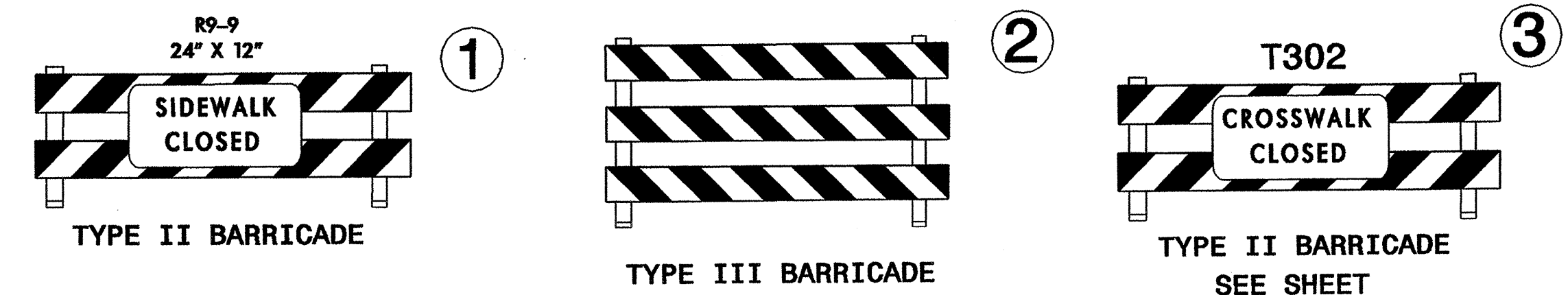
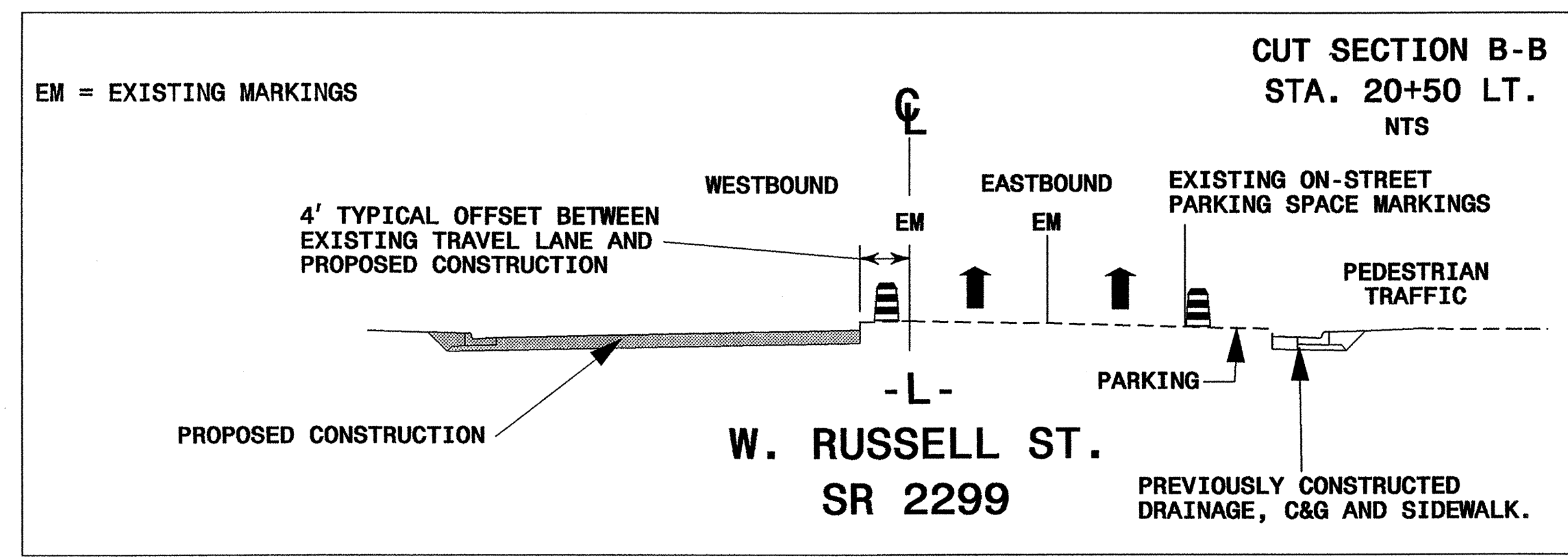
PROVIDE FOR DRIVEWAY INGRESS AND EGRESS AS DETAILED ON SHEETS TCP-8 THROUGH TCP-10. WHEN POSSIBLE, MAINTAIN ACCESS TO THE PREVIOUSLY CONSTRUCTED SIDEWALKS IN FRONT OF AFFECTED BUSINESSES.

COMPLETE SOUTH SIDE CONSTRUCTION AS SHOWN ON SEE SHEETS TCP-9 AND TCP-10 FROM STA. 26+33 TO STA. 39+21.

STEP 4 REFER TO SHEETS TCP-12 THROUGH TCP-14. PLACE TEMPORARY PAINT PAVEMENT MARKINGS ON WESTBOUND RUSSELL STREET AND REOPEN TO TRAFFIC.

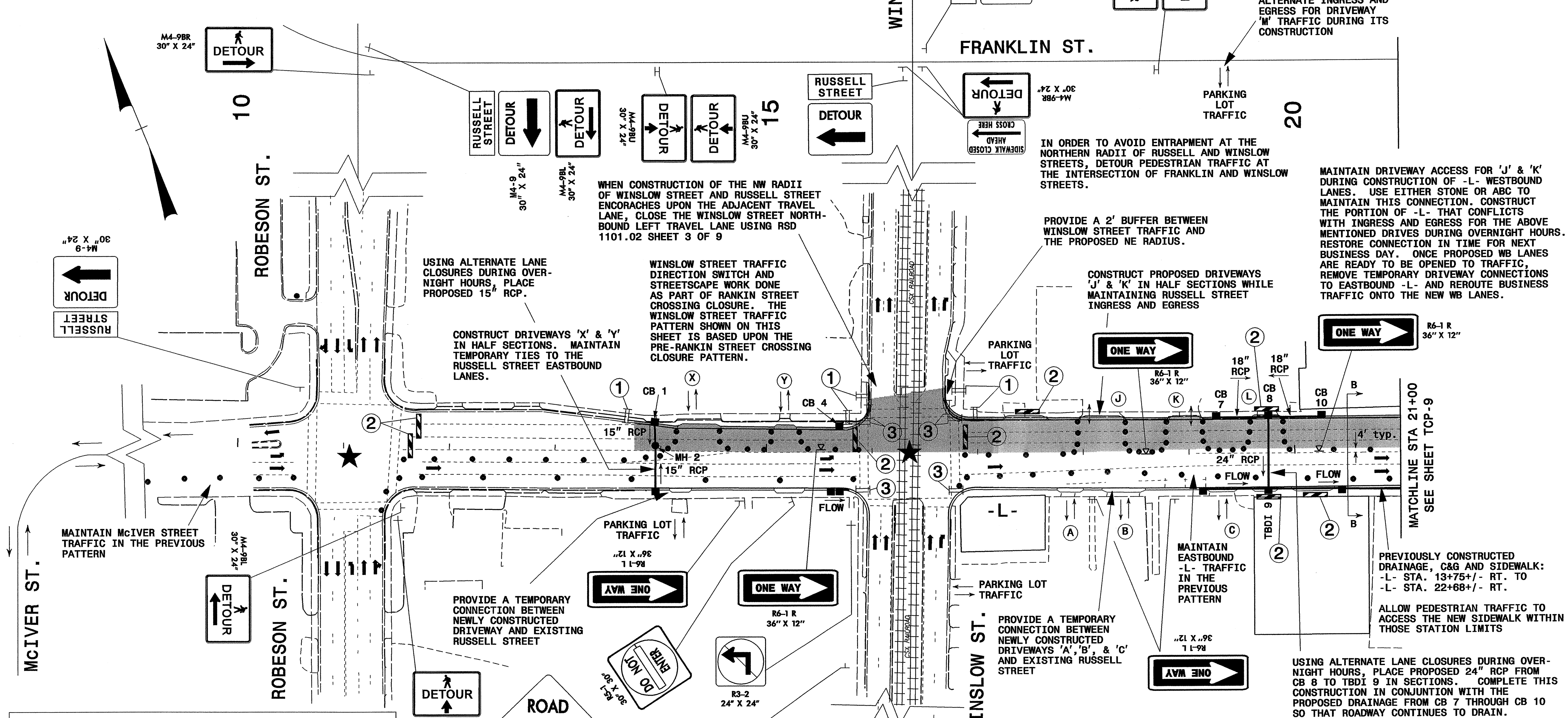
NOTE: STAGE CONSTRUCTION OF ABOVE PROPOSED DRAINAGE SO THAT A POSITIVE FLOW IS MAINTAINED. REFER TO THE ROADWAY CONSTRUCTION PLANS AND SHEETS TCP-8 THROUGH TCP-10 FOR FLOW INDICATORS.

APPROVED: <i>[Signature]</i> DATE: 7/9/08 	<h3 style="margin: 0;">PHASE II PHASING</h3>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISIONS											
REVISIONS														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>SCALE:</td><td>NONE</td></tr> <tr><td>DATE:</td><td>7/9/08</td></tr> <tr><td>DWG. BY:</td><td>AW</td></tr> <tr><td>DESIGN BY:</td><td>AW</td></tr> <tr><td>REVIEWED BY:</td><td>TB</td></tr> </table>	SCALE:	NONE	DATE:	7/9/08	DWG. BY:	AW	DESIGN BY:	AW	REVIEWED BY:	TB		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="font-size: 8px;">CADD FILE</td><td> </td></tr> </table>	CADD FILE	
SCALE:	NONE													
DATE:	7/9/08													
DWG. BY:	AW													
DESIGN BY:	AW													
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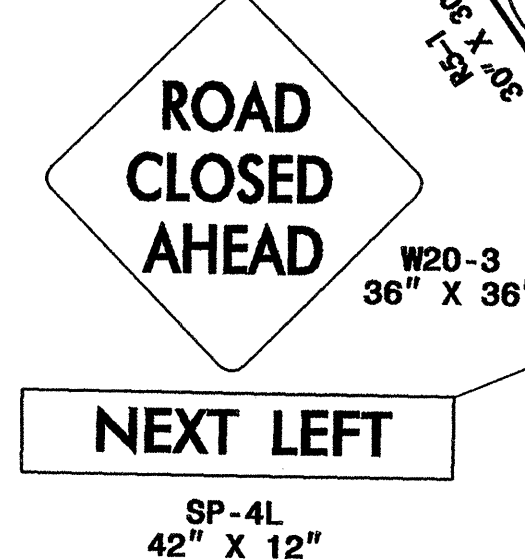
★ = SIGNAL

ALL PAVEMENT MARKINGS AND TRAFFIC PATTERNS ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED



CMS		CMS	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
WESTBND RUSSELL TO CLOSE	xxxDAY mm/dd	WESTBND RUSSELL CLOSED	FOLLOW DETOUR
CHANGEABLE MESSAGE SIGN DISPLAY ONE WEEK IN ADVANCE OF CLOSURE		CHANGEABLE MESSAGE SIGN DISPLAY DURING CLOSURE	

INSET



PBS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 PHONE: (919) 876-6888

APPROVED: [Signature] DATE: 7/9/08

SEAL

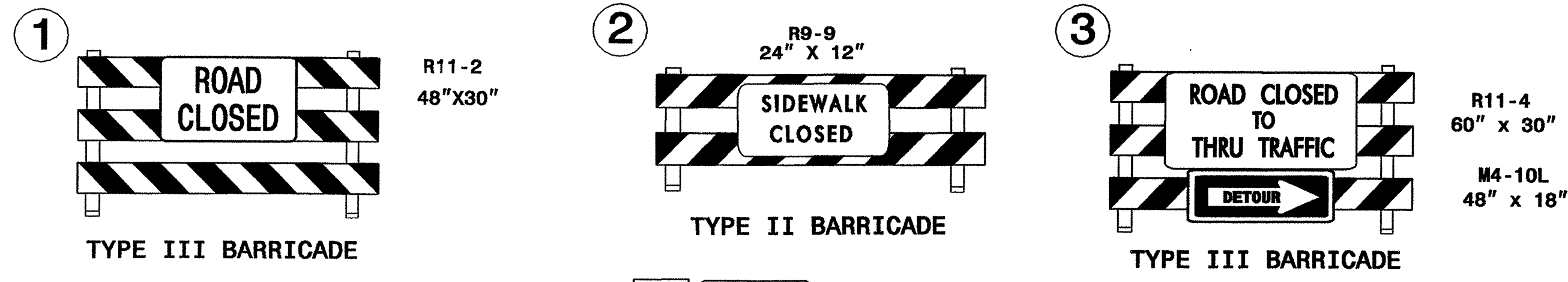
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17588

TODD BROOKS

PHASE II DETAILS

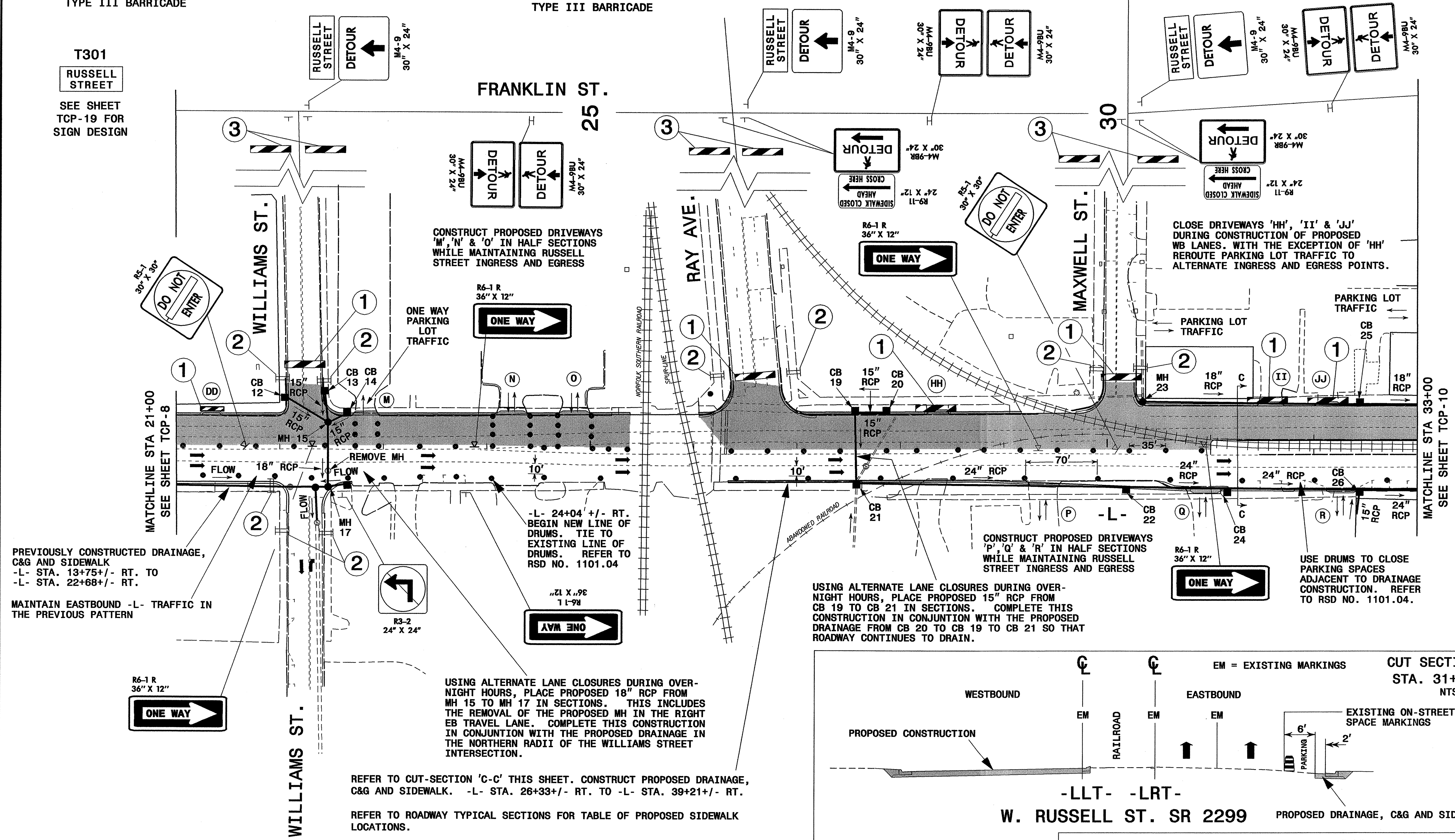
-L- STA. 10+00 TO -L- STA. 21+00

SCALE: 1" = 50'	DATE: 7/9/08	REVISIONS
DWG. BY: AW	DESIGN BY: AW	
REVIEWED BY: TB		



ALL PAVEMENT MARKINGS AND TRAFFIC PATTERNS ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED

T301
RUSSELL STREET
SEE SHEET TCP-19 FOR SIGN DESIGN



PREVIOUSLY CONSTRUCTED DRAINAGE, C&G AND SIDEWALK
-L- STA. 13+75 +/- RT. TO
-L- STA. 22+68 +/- RT.
MAINTAIN EASTBOUND -L- TRAFFIC IN THE PREVIOUS PATTERN

-L- 24+04 +/- RT. BEGIN NEW LINE OF DRUMS. TIE TO EXISTING LINE OF DRUMS. REFER TO RSD NO. 1101.04

USING ALTERNATE LANE CLOSURES DURING OVER-NIGHT HOURS, PLACE PROPOSED 15" RCP FROM CB 19 TO CB 21 IN SECTIONS. COMPLETE THIS CONSTRUCTION IN CONJUNCTION WITH THE PROPOSED DRAINAGE FROM CB 20 TO CB 19 TO CB 21 SO THAT ROADWAY CONTINUES TO DRAIN.

USING ALTERNATE LANE CLOSURES DURING OVER-NIGHT HOURS, PLACE PROPOSED 18" RCP FROM MH 15 TO MH 17 IN SECTIONS. THIS INCLUDES THE REMOVAL OF THE PROPOSED MH IN THE RIGHT EB TRAVEL LANE. COMPLETE THIS CONSTRUCTION IN CONJUNCTION WITH THE PROPOSED DRAINAGE IN THE NORTHERN RADII OF THE WILLIAMS STREET INTERSECTION.

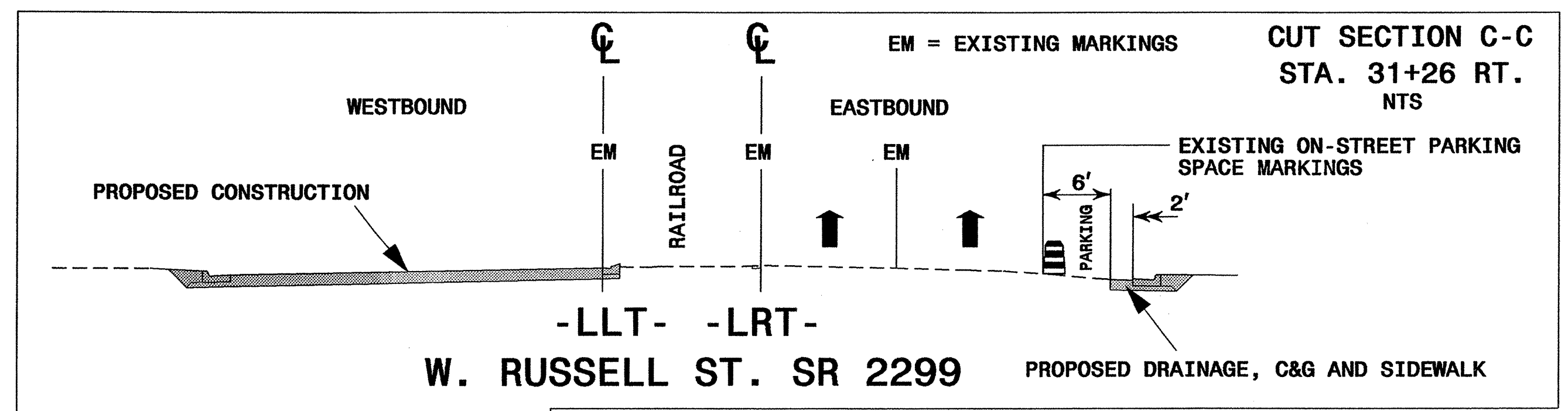
REFER TO CUT-SECTION 'C-C' THIS SHEET. CONSTRUCT PROPOSED DRAINAGE, C&G AND SIDEWALK. -L- STA. 26+33 +/- RT. TO -L- STA. 39+21 +/- RT.

REFER TO ROADWAY TYPICAL SECTIONS FOR TABLE OF PROPOSED SIDEWALK LOCATIONS.

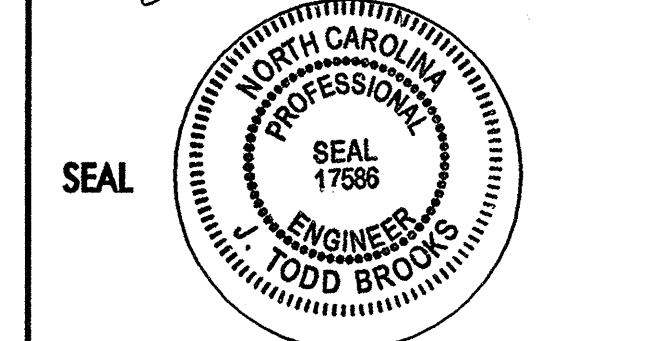
DETOUR PEDESTRIAN TRAFFIC AS SHOWN ON THIS AND NEXT SHEETS.

CLOSE DRIVEWAYS 'HH', 'II' & 'JJ' DURING CONSTRUCTION OF PROPOSED WB LANES. WITH THE EXCEPTION OF 'HH' REROUTE PARKING LOT TRAFFIC TO ALTERNATE INGRESS AND EGRESS POINTS.

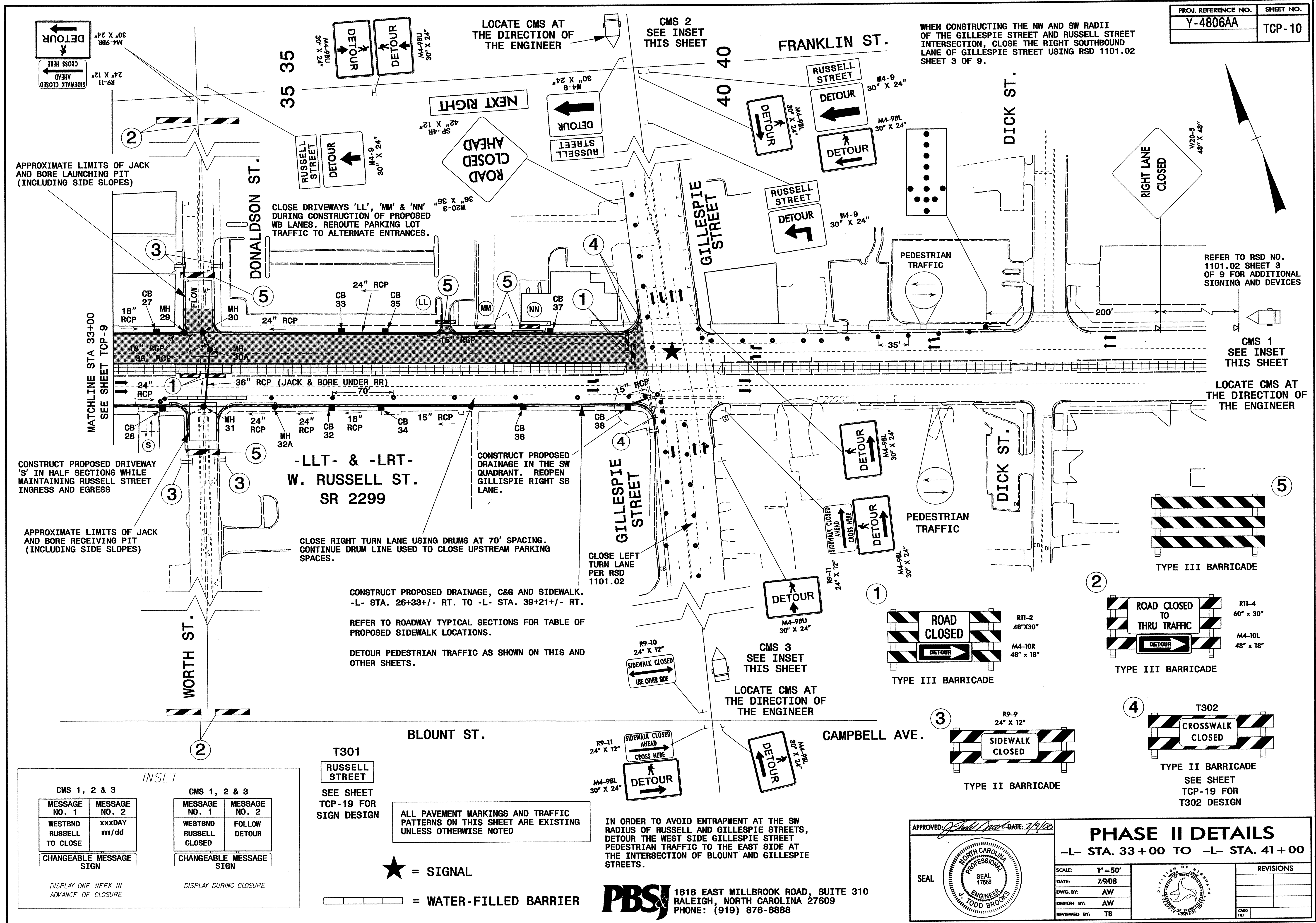
USE DRUMS TO CLOSE PARKING SPACES ADJACENT TO DRAINAGE CONSTRUCTION. REFER TO RSD NO. 1101.04.



APPROVED: [Signature] DATE: 7/9/08



PHASE II DETAILS	
-L- STA. 21+00 TO -L- STA. 33+00	
SCALE: 1" = 50'	REVISIONS
DATE: 7/9/08	
DWG. BY: AW	
DESIGN BY: AW	
REVIEWED BY: TB	



WHEN CONSTRUCTING THE NW AND SW RADII OF THE GILLESPIE STREET AND RUSSELL STREET INTERSECTION, CLOSE THE RIGHT SOUTHBOUND LANE OF GILLESPIE STREET USING RSD 1101.02 SHEET 3 OF 9.

REFER TO RSD NO. 1101.02 SHEET 3 OF 9 FOR ADDITIONAL SIGNING AND DEVICES

APPROXIMATE LIMITS OF JACK AND BORE LAUNCHING PIT (INCLUDING SIDE SLOPES)

CLOSE DRIVEWAYS 'LL', 'MM' & 'NN' DURING CONSTRUCTION OF PROPOSED WB LANES. REROUTE PARKING LOT TRAFFIC TO ALTERNATE ENTRANCES.

CONSTRUCT PROPOSED DRIVEWAY 'S' IN HALF SECTIONS WHILE MAINTAINING RUSSELL STREET INGRESS AND EGRESS

APPROXIMATE LIMITS OF JACK AND BORE RECEIVING PIT (INCLUDING SIDE SLOPES)

-LLT- & -LRT- W. RUSSELL ST. SR 2299

CLOSE RIGHT TURN LANE USING DRUMS AT 70' SPACING. CONTINUE DRUM LINE USED TO CLOSE UPSTREAM PARKING SPACES.

CONSTRUCT PROPOSED DRAINAGE, C&G AND SIDEWALK. -L- STA. 26+33+/- RT. TO -L- STA. 39+21+/- RT.

REFER TO ROADWAY TYPICAL SECTIONS FOR TABLE OF PROPOSED SIDEWALK LOCATIONS.

DETOUR PEDESTRIAN TRAFFIC AS SHOWN ON THIS AND OTHER SHEETS.

IN ORDER TO AVOID ENTRAPMENT AT THE SW RADIUS OF RUSSELL AND GILLESPIE STREETS, DETOUR THE WEST SIDE GILLESPIE STREET PEDESTRIAN TRAFFIC TO THE EAST SIDE AT THE INTERSECTION OF BLOUNT AND GILLESPIE STREETS.

INSET

CMS 1, 2 & 3		CMS 1, 2 & 3	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
WESTBND RUSSELL TO CLOSE	xxxDAY mm/dd	WESTBND RUSSELL CLOSED	FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

DISPLAY ONE WEEK IN ADVANCE OF CLOSURE

CHANGEABLE MESSAGE SIGN

DISPLAY DURING CLOSURE

T301
RUSSELL STREET
SEE SHEET TCP-19 FOR SIGN DESIGN

ALL PAVEMENT MARKINGS AND TRAFFIC PATTERNS ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED

★ = SIGNAL

▬ = WATER-FILLED BARRIER

PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 PHONE: (919) 876-6888

APPROVED: [Signature] DATE: 7/9/08

SEAL

PHASE II DETAILS
-L- STA. 33+00 TO -L- STA. 41+00

SCALE: 1"=50'

DATE: 7/9/08

DWG. BY: AW

DESIGN BY: AW

REVIEWED BY: TB

REVISIONS

PHASING

PHASE III

NOTES: RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK DAY UNLESS OTHERWISE STATED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED CONSTRUCTION IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

STEP 1 PRIOR TO BEGINNING ANY PROPOSED PHASE III CONSTRUCTION, SIMULTANEOUSLY PERFORM THE FOLLOWING:

- * MAINTAIN McIVER STREET EASTBOUND TRAFFIC IN ITS PREVIOUS PATTERN. SEE SHEET TCP-12. PLACE TEMP. PAVEMENT MARKING ARROW AS SHOWN ON SHEET TCP-12.
- * CLOSE ROBESON STREET SB LEFT TURN LANE AS SHOWN ON SHEET TCP-12.
- * CLOSE EXISTING EASTBOUND RUSSELL STREET AS SHOWN ON SHEETS TCP-12 THRU TCP-14.
- * DETOUR EASTBOUND RUSSELL STREET TRAFFIC AS SHOWN ON SHEETS TCP-12 THRU TCP-14.
- * CLOSE WILLIAMS STREET SOUTH OF RUSSELL STREET AS SHOWN ON SHEET TCP-16.
- * CONTINUE TO CLOSE WORTH STREET AS SHOWN ON SHEET TCP-16.

DETOUR RUSSELL STREET PEDESTRIAN TRAFFIC AS SHOWN ON SHEETS TCP-12 THROUGH TCP-14.

STEP 2 ONCE EASTBOUND RUSSELL STREET IS CLOSED, CONSTRUCT THE SOUTH SIDE OF RUSSELL STREET AS SHOWN ON SHEETS TCP-12 THROUGH TCP-14 UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE. THIS INCLUDES ANY REMAINING SOUTH SIDE PORTIONS OF CURB & GUTTER AND SIDEWALK. SEE STA. 22+69 -L- TO STA. 25+38 -L-.



PROVIDE FOR DRIVEWAY INGRESS AND EGRESS AS DETAILED ON SHEETS TCP-12 THROUGH TCP-14. WHEN POSSIBLE, MAINTAIN ACCESS TO THE PREVIOUSLY CONSTRUCTED SIDEWALKS IN FRONT OF AFFECTED BUSINESSES.

STEP 3 PLACE THE FINAL LAYER OF SURFACE COURSE ON THE WESTBOUND LANES (PREVIOUSLY CONSTRUCTED NORTH SIDE) OF RUSSELL STREET. USE ALTERNATE LANE CLOSURES AS PER RSD 1101.02.

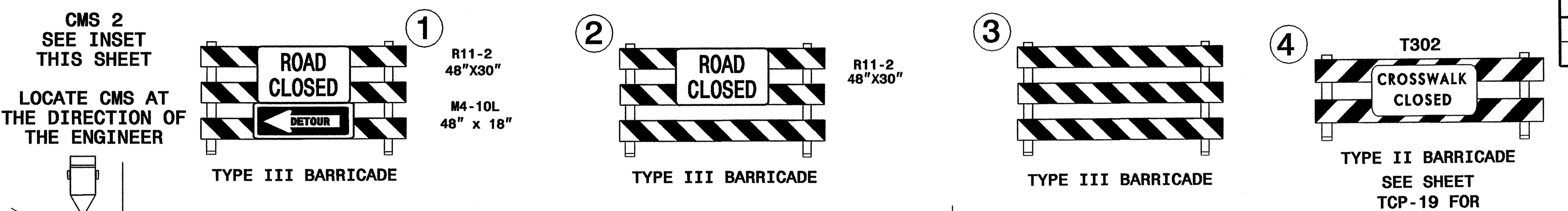
PERFORM MILLING AND OVERLAY OF FINAL SURFACE COURSE FROM MAINLINE STA. 39+12 TO STA. 43+00. AT THE DIRECTION OF THE ENGINEER, USE A POLICE OFFICER TO CONTROL TRAFFIC THROUGH THE GILLESPIE STREET INTERSECTION DURING THIS OPERATION. USE ALTERNATE LANE CLOSURES AS PER RSD 1101.02 AS NEEDED ON RUSSELL STREET EAST OF THE GILLESPIE STREET INTERSECTION.

STEP 4 PLACE FINAL PAVEMENT MARKINGS ON RUSSELL STREET AS PER SHEETS PM-1 THROUGH PM-3. USE ALTERNATE LANE CLOSURES AS PER RSD 1101.02. OPEN FACILITY TO FINAL TRAFFIC PATTERN.

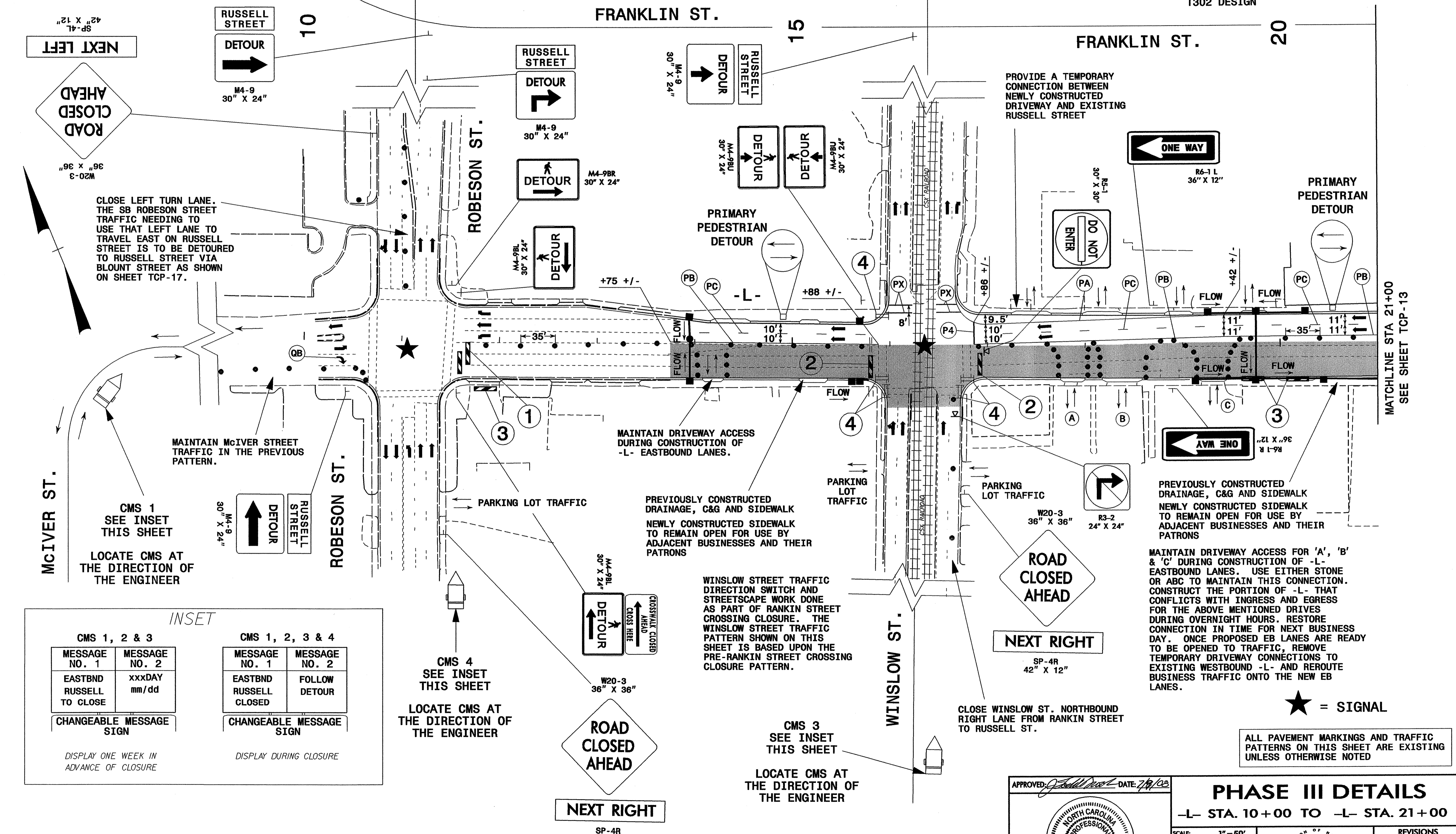
PBS&J 1616 EAST MILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 PHONE: (919) 876-6888

APPROVED: <i>[Signature]</i> DATE: 7/9/08 	<h3 style="margin: 0;">PHASE III PHASING</h3>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </tbody> </table>	REVISIONS					
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE: NONE</td> </tr> <tr> <td>DATE: 7/9/08</td> </tr> <tr> <td>DWG. BY: AW</td> </tr> <tr> <td>DESIGN BY: AW</td> </tr> <tr> <td>REVIEWED BY: TB</td> </tr> </table>	SCALE: NONE	DATE: 7/9/08	DWG. BY: AW	DESIGN BY: AW	REVIEWED BY: TB		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">CADD FILE</td> </tr> </table>	CADD FILE
SCALE: NONE								
DATE: 7/9/08								
DWG. BY: AW								
DESIGN BY: AW								
REVIEWED BY: TB								
CADD FILE								

PAVEMENT MARKING SCHEDULE table with columns for marking type (PA, PB, PC, PX, P4, QB) and description (WHITE EDGELINE, YELLOW EDGELINE, 10 FT. WHITE SKIP, WHITE CROSSWALK LINE, WHITE STOP BAR, RIGHTT ARROW MARKING SYMBOL) and material (PAINT).



RUSSELL STREET SEE SHEET TCP-19 FOR SIGN DESIGN



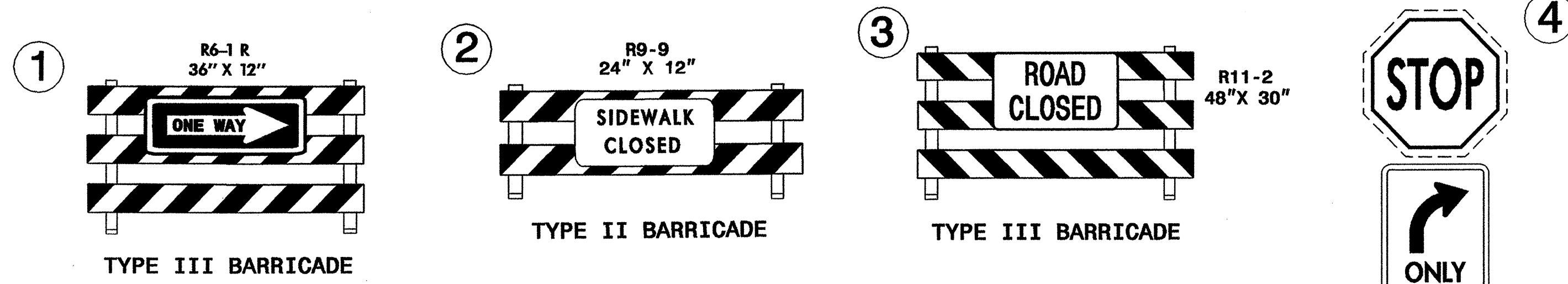
INSET table for CMS 1, 2 & 3 and CMS 1, 2, 3 & 4, showing message numbers and content for changeable message signs.

PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 PHONE: (919) 876-6888

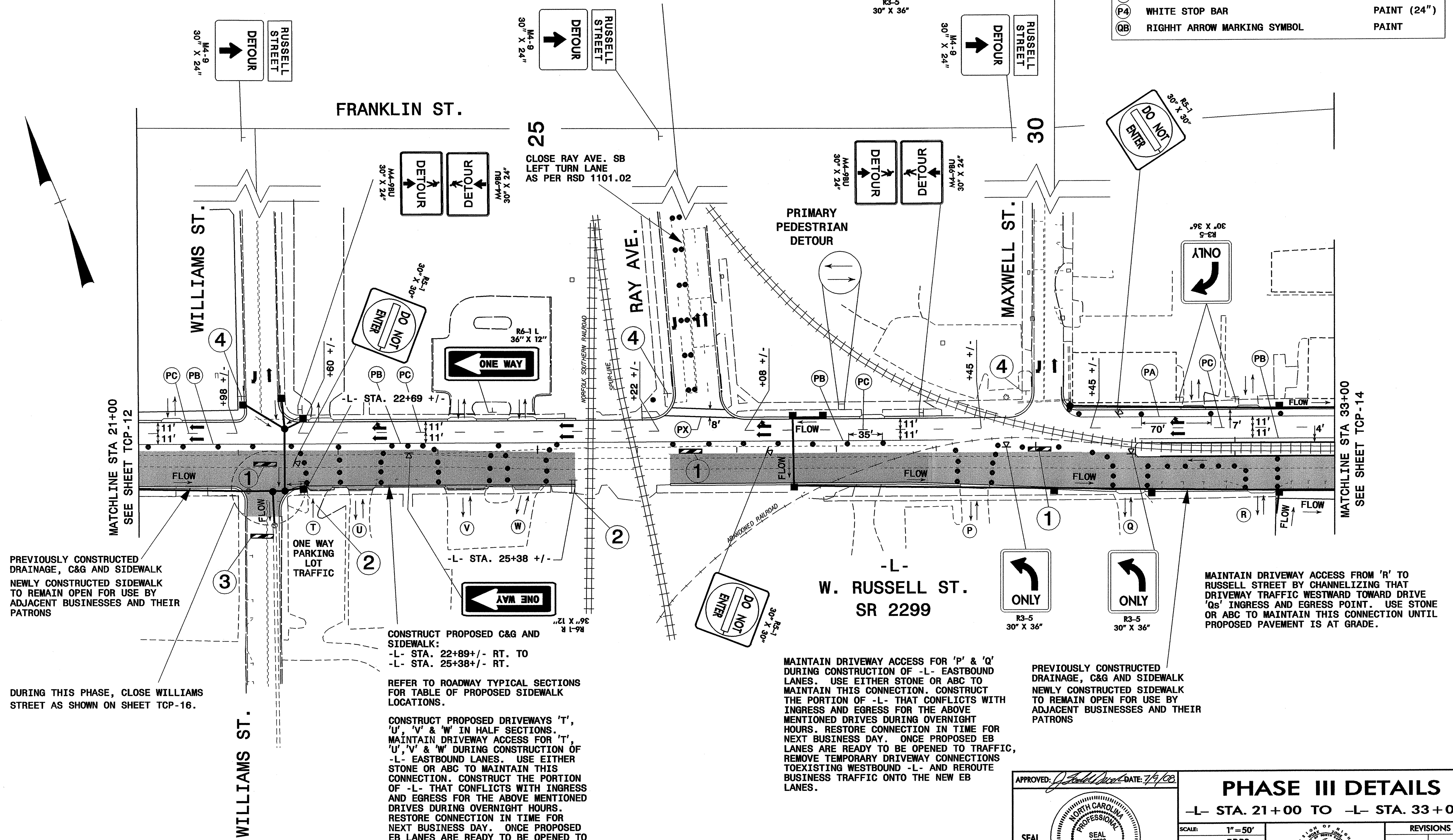
APPROVED: [Signature] DATE: 7/9/08 SEAL 17886

PHASE III DETAILS -L- STA. 10+00 TO -L- STA. 21+00. Includes scale (1"=50'), date (7/9/08), design by (AW), and revision table.

RUSSELL STREET
SEE SHEET TCP-19 FOR SIGN DESIGN



PAVEMENT MARKING SCHEDULE		
(PA)	WHITE EDGELINE	PAINT (4")
(PB)	YELLOW EDGELINE	PAINT (4")
(PC)	10 FT. WHITE SKIP	PAINT (4")
(PX)	WHITE CROSSWALK LINE	PAINT (8")
(P4)	WHITE STOP BAR	PAINT (24")
(RB)	RIGHT ARROW MARKING SYMBOL	PAINT



PREVIOUSLY CONSTRUCTED DRAINAGE, C&G AND SIDEWALK NEWLY CONSTRUCTED SIDEWALK TO REMAIN OPEN FOR USE BY ADJACENT BUSINESSES AND THEIR PATRONS

DURING THIS PHASE, CLOSE WILLIAMS STREET AS SHOWN ON SHEET TCP-16.

CONSTRUCT PROPOSED C&G AND SIDEWALK:
-L- STA. 22+89 +/- RT. TO
-L- STA. 25+38 +/- RT.

REFER TO ROADWAY TYPICAL SECTIONS FOR TABLE OF PROPOSED SIDEWALK LOCATIONS.

CONSTRUCT PROPOSED DRIVEWAYS 'T', 'U', 'V' & 'W' IN HALF SECTIONS. MAINTAIN DRIVEWAY ACCESS FOR 'T', 'U', 'V' & 'W' DURING CONSTRUCTION OF -L- EASTBOUND LANES. USE EITHER STONE OR ABC TO MAINTAIN THIS CONNECTION. CONSTRUCT THE PORTION OF -L- THAT CONFLICTS WITH INGRESS AND EGRESS FOR THE ABOVE MENTIONED DRIVES DURING OVERNIGHT HOURS. RESTORE CONNECTION IN TIME FOR NEXT BUSINESS DAY. ONCE PROPOSED EB LANES ARE READY TO BE OPENED TO TRAFFIC, REMOVE TEMPORARY DRIVEWAY CONNECTIONS TO EXISTING WESTBOUND -L- AND REROUTE BUSINESS TRAFFIC ONTO THE NEW EB LANES.

MAINTAIN DRIVEWAY ACCESS FOR 'P' & 'Q' DURING CONSTRUCTION OF -L- EASTBOUND LANES. USE EITHER STONE OR ABC TO MAINTAIN THIS CONNECTION. CONSTRUCT THE PORTION OF -L- THAT CONFLICTS WITH INGRESS AND EGRESS FOR THE ABOVE MENTIONED DRIVES DURING OVERNIGHT HOURS. RESTORE CONNECTION IN TIME FOR NEXT BUSINESS DAY. ONCE PROPOSED EB LANES ARE READY TO BE OPENED TO TRAFFIC, REMOVE TEMPORARY DRIVEWAY CONNECTIONS TO EXISTING WESTBOUND -L- AND REROUTE BUSINESS TRAFFIC ONTO THE NEW EB LANES.

PREVIOUSLY CONSTRUCTED DRAINAGE, C&G AND SIDEWALK NEWLY CONSTRUCTED SIDEWALK TO REMAIN OPEN FOR USE BY ADJACENT BUSINESSES AND THEIR PATRONS

MAINTAIN DRIVEWAY ACCESS FROM 'R' TO RUSSELL STREET BY CHANNELIZING THAT DRIVEWAY TRAFFIC WESTWARD TOWARD DRIVE 'Qs' INGRESS AND EGRESS POINT. USE STONE OR ABC TO MAINTAIN THIS CONNECTION UNTIL PROPOSED PAVEMENT IS AT GRADE.

PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
PHONE: (919) 876-6888

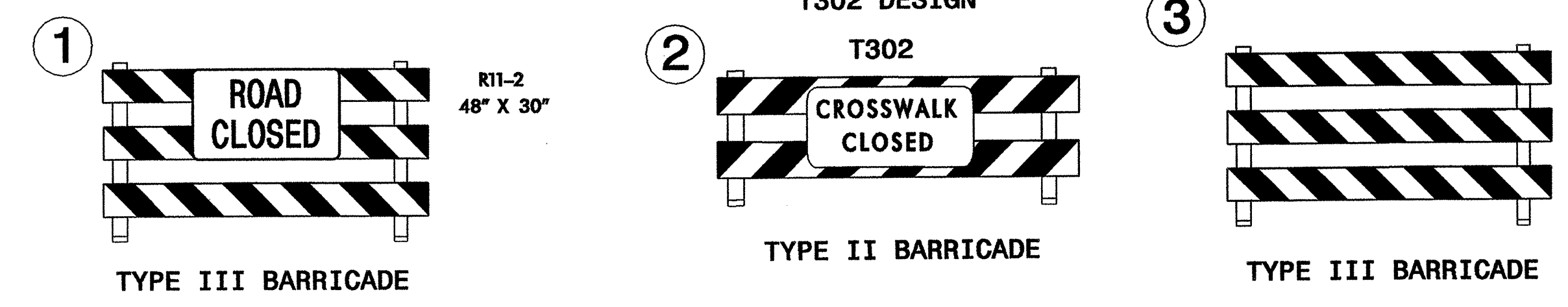
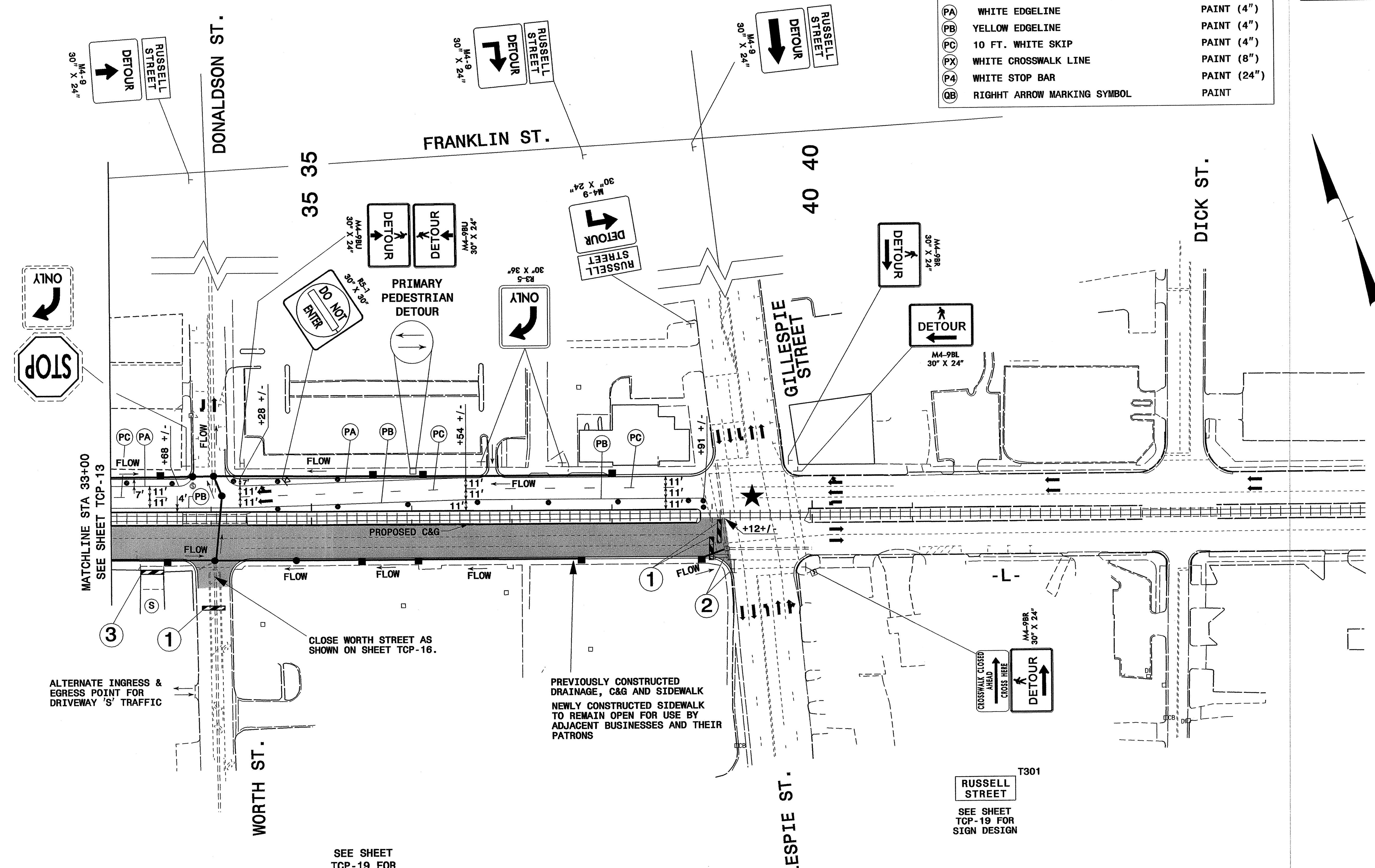
APPROVED: *[Signature]* DATE: 7/9/08

PHASE III DETAILS
-L- STA. 21+00 TO -L- STA. 33+00

SCALE:	1" = 50'
DATE:	7/9/08
DWG. BY:	AW
DESIGN BY:	AW
REVIEWED BY:	TB

REVISIONS	

PAVEMENT MARKING SCHEDULE		
(PA)	WHITE EDGELINE	PAINT (4")
(PB)	YELLOW EDGELINE	PAINT (4")
(PC)	10 FT. WHITE SKIP	PAINT (4")
(PX)	WHITE CROSSWALK LINE	PAINT (8")
(P4)	WHITE STOP BAR	PAINT (24")
(QB)	RIGHT ARROW MARKING SYMBOL	PAINT



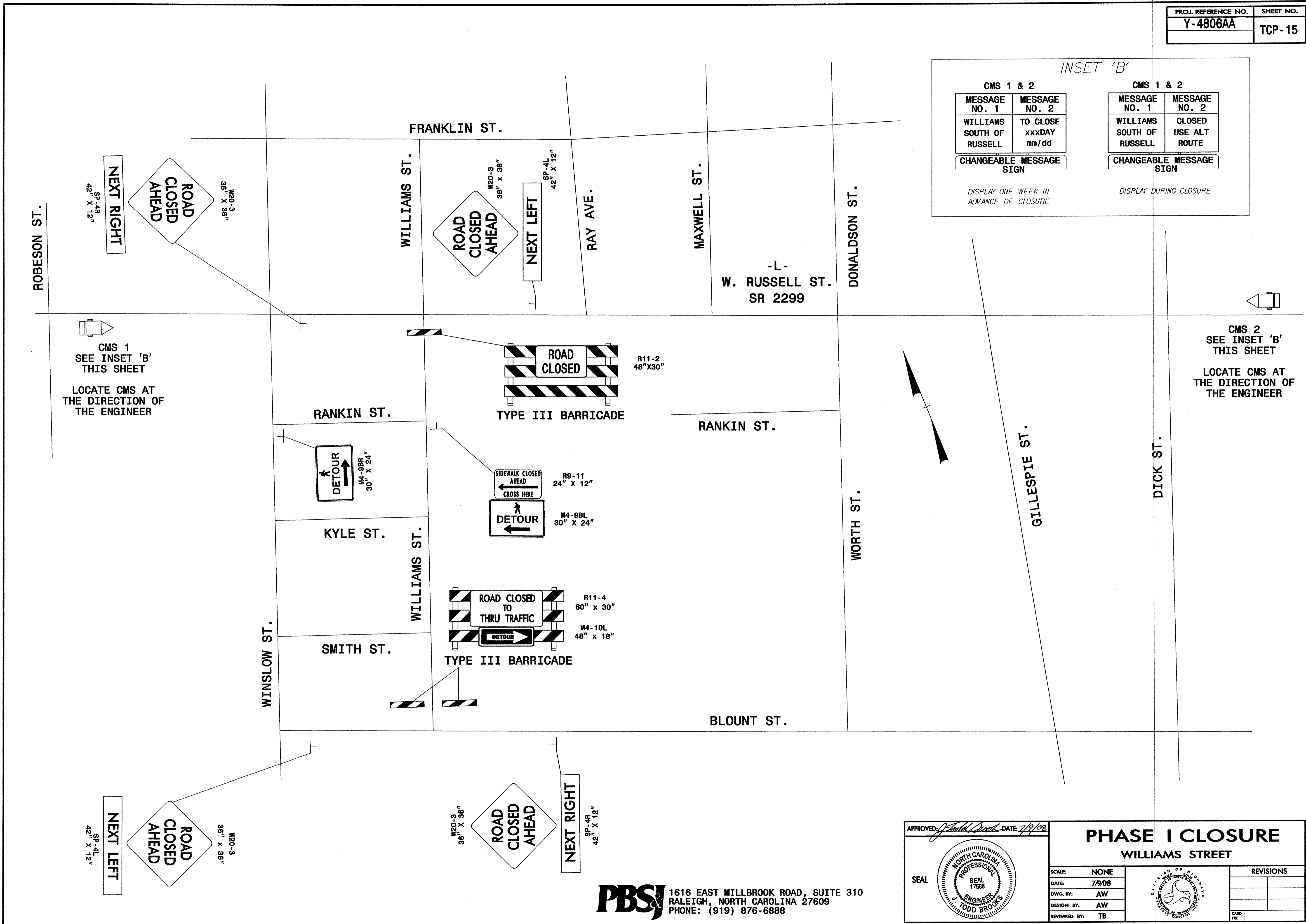
T301
 RUSSELL STREET
 SEE SHEET TCP-19 FOR SIGN DESIGN

PBS&J 1616 EAST MILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 PHONE: (919) 876-6888

APPROVED: <i>[Signature]</i> DATE: 7/9/08	PHASE III DETAILS	
	-L- STA. 33+00 TO -L- STA. 41+00	
	SCALE: 1" = 50'	REVISIONS
	DATE: 7/9/08	
	DWG. BY: AW	
DESIGN BY: AW		
REVIEWED BY: TB		

INSET 'B'

CMS 1 & 2		CMS 1 & 2	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
WILLIAMS SOUTH OF RUSSELL	TO CLOSE xxxDAY mm/dd	WILLIAMS SOUTH OF RUSSELL	CLOSED USE ALT ROUTE
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	
DISPLAY ONE WEEK IN ADVANCE OF CLOSURE		DISPLAY DURING CLOSURE	



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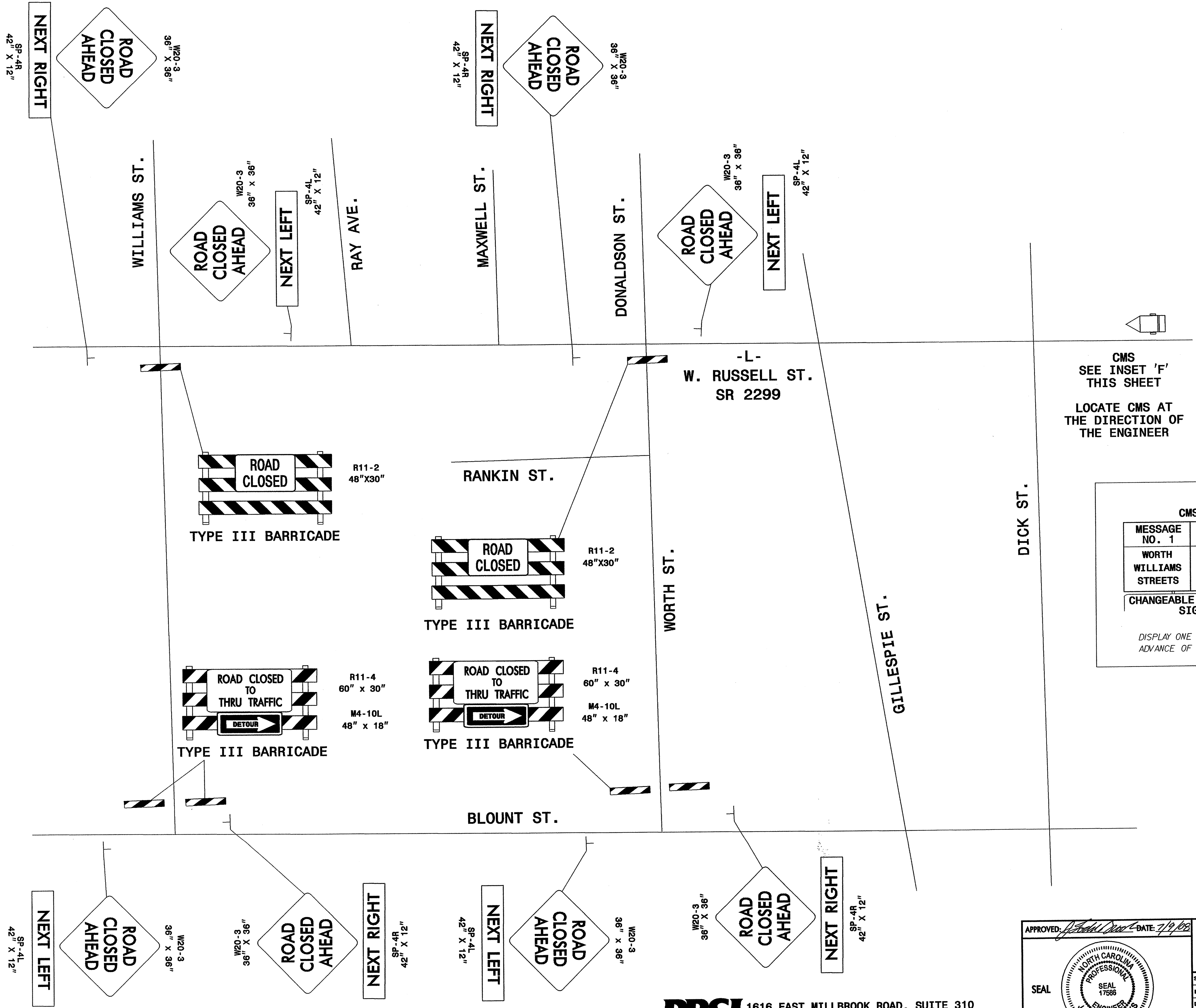
APPROVED: *[Signature]* DATE: 7/9/08

SEAL

NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 TODD BROOKS

PHASE I CLOSURE
 WILLIAMS STREET

SCALE: NONE		REVISIONS
DATE: 7/9/08		
DWG. BY: AW		
DESIGN BY: AW		
REVIEWED BY: TB		



CMS
SEE INSET 'F'
THIS SHEET
LOCATE CMS AT
THE DIRECTION OF
THE ENGINEER

INSET 'F'

CMS		CMS	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
WORTH WILLIAMS STREETS	TO CLOSE xxxDAY mm/dd	WORTH WILLIAMS STREETS	CLOSED USE ALT ROUTES
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	
DISPLAY ONE WEEK IN ADVANCE OF CLOSURE		DISPLAY DURING CLOSURE	

APPROVED: *[Signature]* DATE: 7/9/08

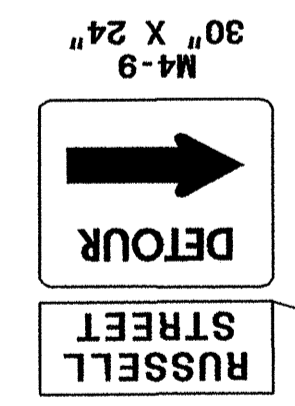
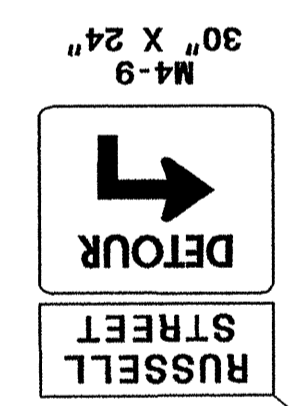
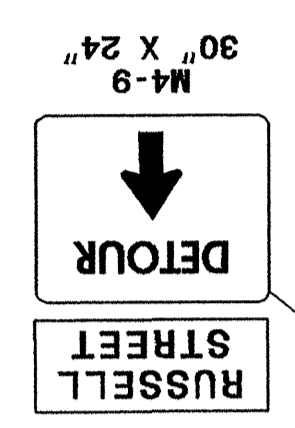
SEAL

PHASE III CLOSURE
WILLIAMS ST. & WORTH ST.

SCALE:	NONE		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS							
REVISIONS											
DATE:	7/9/08										
DWG. BY:	AW										
DESIGN BY:	AW										
REVIEWED BY:	TB	<table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>									



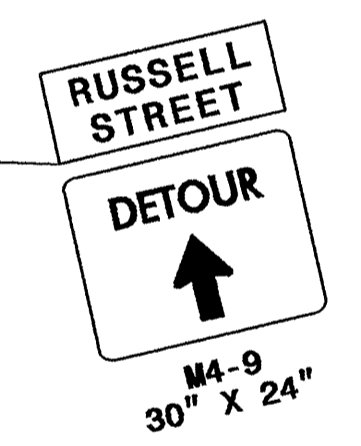
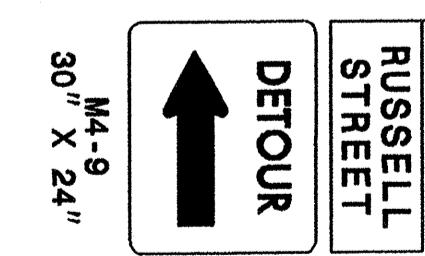
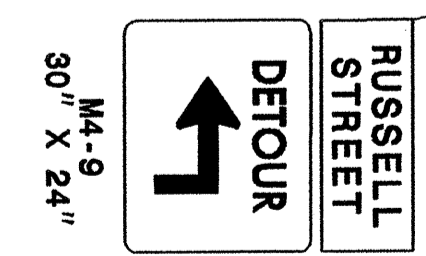
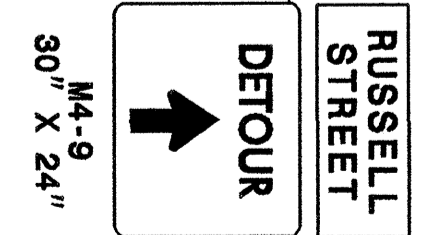
CMS
SEE INSET
THIS SHEET
(SAME CMS AS
SHOWN ON SHEET TCP-12)



RUSSELL STREET T301
SEE SHEET
TCP-25 FOR
SIGN DESIGN

INSET

CMS 1, 2 & 3		CMS 1, 2, 3 & 4	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
EASTBND RUSSELL TO CLOSE	xxxDAY mm/dd	EASTBND RUSSELL CLOSED	FOLLOW DETOUR
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	
DISPLAY ONE WEEK IN ADVANCE OF CLOSURE		DISPLAY DURING CLOSURE	



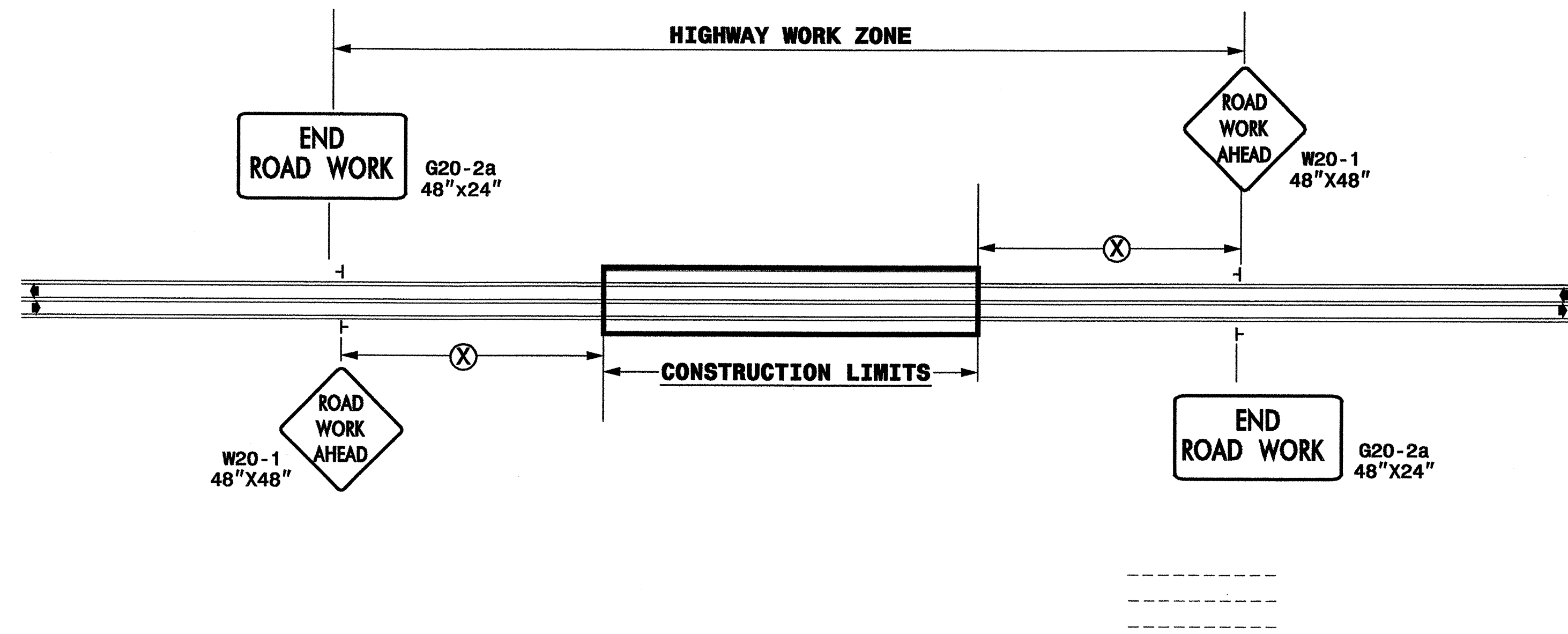
APPROVED: *[Signature]* DATE: 7/9/08

SEAL

PHASE III DETOUR
SB ROBESON ST. TO RUSSELL ST.

SCALE:	NONE		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS									
REVISIONS													
DATE:	7/9/08												
DWG. BY:	AW												
DESIGN BY:	AW												
REVIEWED BY:	TB												

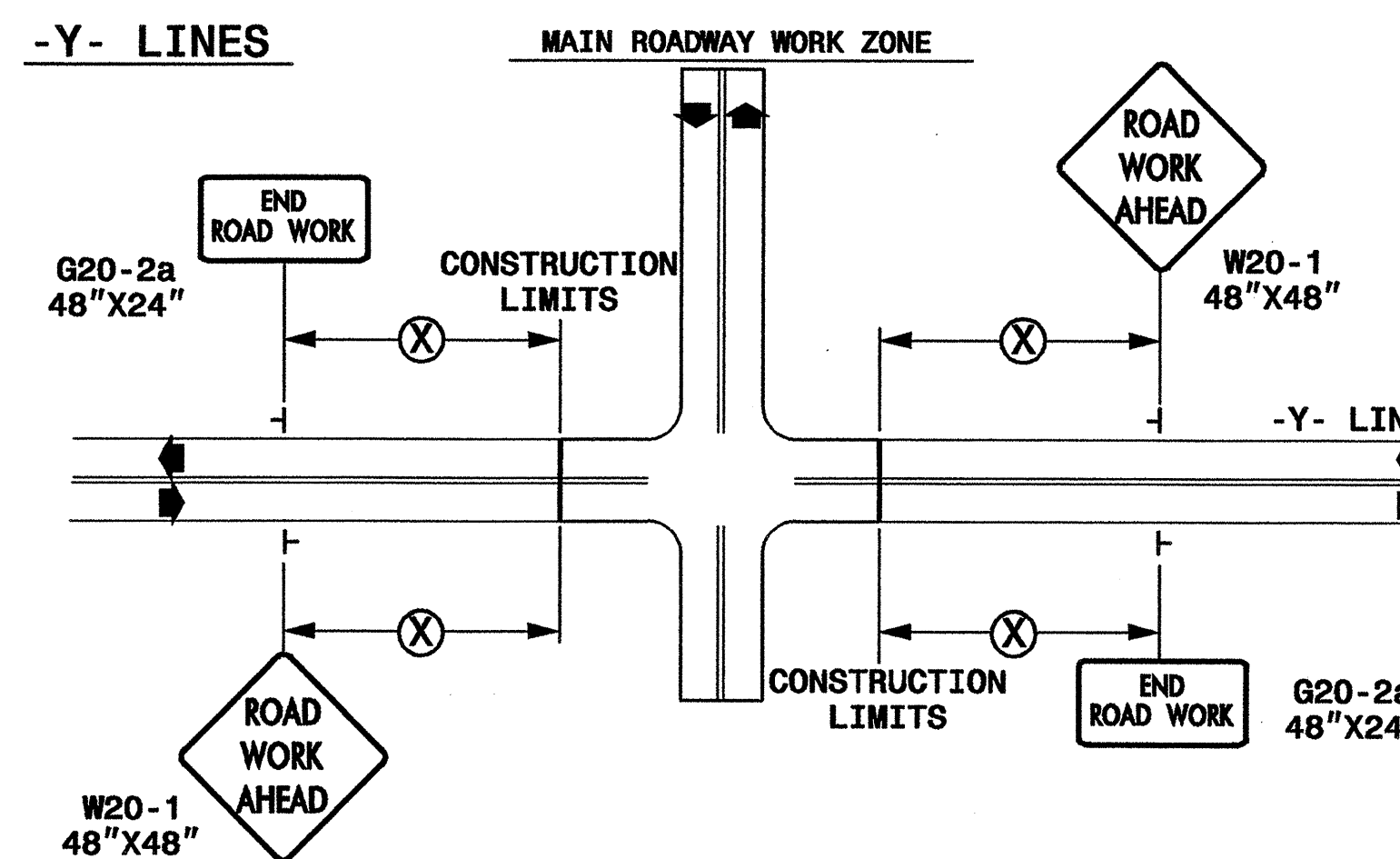
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

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

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

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


LEGEND

┆ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

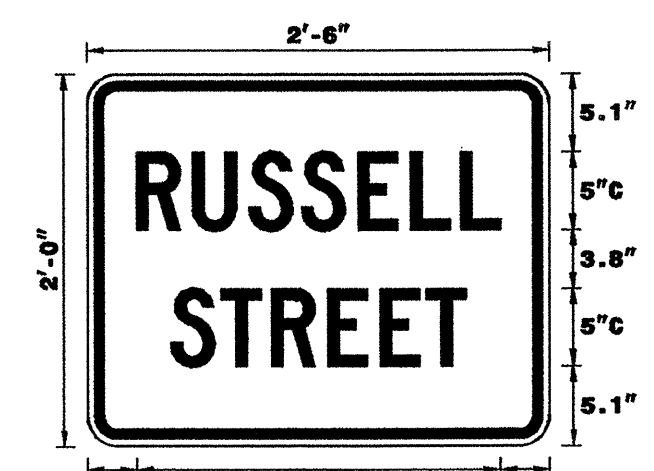
APPROVED: <i>[Signature]</i> DATE: 7/9/02	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
	SCALE: NONE	REVISIONS
	DATE: 10-98	7-98 10/01
	DESIGN BY: 03/04	10-98 03/04
	REVIEWED BY: 11/04	01/01 11/04



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

SIGN NUMBER: T301	BACKG COLOR: Orange	DESIGN BY: AW	CHECKED BY:	STD #: 0
TYPE: D	COPY COLOR: Black	PROJECT ID: 37976	DIV: 6	DATE: May 13, 2008
QUANTITY: 31				

SYMBOL	X	Y	WID	HT



BORDER: R=1.5" TH=0.63" IN=0.47"

MAT'L: 0.063" (1.6 mm) ALUMINUM
 0.080" (2.0 mm) ALUMINUM
 0.125" (3.2 mm) ALUMINUM


NO. Z BARS:
 LENGTH:

USE NOTES:
 1. Legend and border shall be direct applied Type III reflective sheeting.
 2. Legend and border shall be direct applied non-reflective sheeting.
 3. Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
 4. Background shall be Type III reflective sheeting.
 5. Background shall be Type I reflective sheeting.
 6. Center arrow(s) vertically on sign.
 7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS
 Letter locations are panel edge to lower left corner

R	U	S	S	E	L	L	Series/Size Text Length	
3.2	6.9	10.5	13.9	17.6	21	24.2	C 2000	23.6
S	T	R	E	E	T		C 2000	19.1
5.5	8.7	12	15.6	19	22			

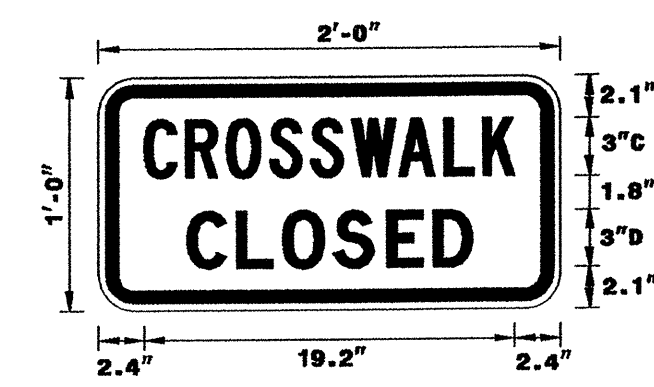
Spacing Factor is 1 unless specified otherwise
 FILENAME: qut301sign NORTH CAROLINA D.O.T. SIGN DETAIL



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

SIGN NUMBER: T302	BACKG COLOR: White	DESIGN BY: LM Moon	CHECKED BY: JT Brooks	STD #: 0
TYPE: D	COPY COLOR: Black	PROJECT ID: 37976	DIV: 6	DATE: May 13, 2008
QUANTITY: 8				

SYMBOL	X	Y	WID	HT



BORDER: R=1.5" TH=0.63" IN=0.38"

MAT'L: 0.063" (1.6 mm) ALUMINUM

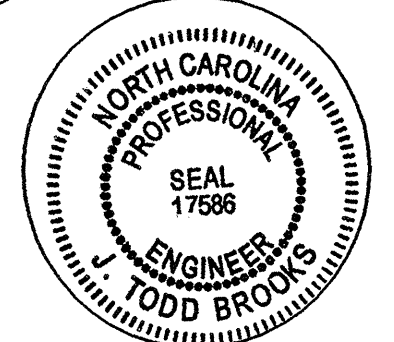
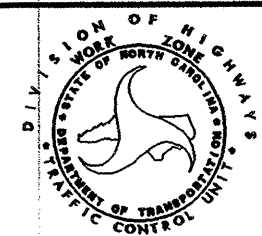
NO. Z BARS:
 LENGTH:

USE NOTES: 2, 4
 1. Legend and border shall be direct applied Type III reflective sheeting.
 2. Legend and border shall be direct applied non-reflective sheeting.
 3. Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
 4. Background shall be Type III reflective sheeting.
 5. Background shall be Type I reflective sheeting.
 6. Center arrow(s) vertically on sign.
 7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS
 Letter spacings are to start of next letter

C	R	O	S	S	W	A	L	K	Series/Size Text Length			
2.4	2.1	2.1	2.2	2.1	2.1	2.4	2.4	2	1.6	2.4	C3	19.2
C	L	O	S	E	D						B3	14.8
4.6	2.6	2.4	2.7	2.7	2.4	2	4.6					

Spacing Factor is 1 unless specified otherwise
 FILENAME: qut302sign NORTH CAROLINA D.O.T. SIGN DETAILS

APPROVED: <i>[Signature]</i> DATE: 7/9/08	SIGN DESIGNS	
	SCALE: NONE	
	DATE: 7/9/08	
	DWG. BY: AW	
	DESIGN BY: AW	
	REVIEWED BY: TB	
	REVISIONS	