

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4861	TCP-1

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

TIP : B-4861

CONTRACT: C203003

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
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, & INDEX OF SHEETS
TCP-2	PROJECT NOTES
TCP-3	OVERVIEW & PHASING
TCP-4	DETOUR
TCP-5	DETOUR SIGN DETAIL
PM-1	FINAL PAVEMENT MARKING SCHEDULE & PAVEMENT MARKING PLAN

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE 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

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERAME\$\$\$\$\$

APPROVED: DATE:	PLAN PREPARED FOR CITY OF ANSONVILLE:
	<p>TGS ENGINEERS SUITE 141 975 WALNUT STREET CARY, NC 27511 PH (919) 319-8850</p> <p>CORP. LICENSE NO.: C-0275</p> <p>JIMMY L. TERRY, PE PROJECT ENGINEER</p>

PROJECT NOTES

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 UNDESIRABLE 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
US HWY 52	MONDAY THRU FRIDAY 6:00 AM - 9:00 AM
US HWY 52	MONDAY THRU FRIDAY 3:00 PM - 7:00 PM

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

ROAD NAME
US 52 HWY

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 3:00 P.M. DECEMBER 31st TO 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 3:00 P.M. THURSDAY AND 9:00 A.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 3:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 3:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 3:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 3:00 P.M. FRIDAY AND 9:00 A.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 3:00 P.M. TUESDAY TO 9:00 A.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 3:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 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.
- 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.
- 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.

LOCAL NOTES

THE FOLLOWING LOCAL NOTES APPLY ONLY AT THE TIMES THEY ARE REFERENCED IN THE PLAN.

- 1) MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES USING INCIDENTAL STONE AND DRUMS TO DELINEATE THE TRAVELWAYS.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- G) 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 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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- I) 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.
- J) PROVIDE PERMANENT SIGNING.
- K) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- L) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN

TRAFFIC BARRIER

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

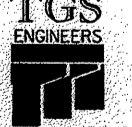
DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

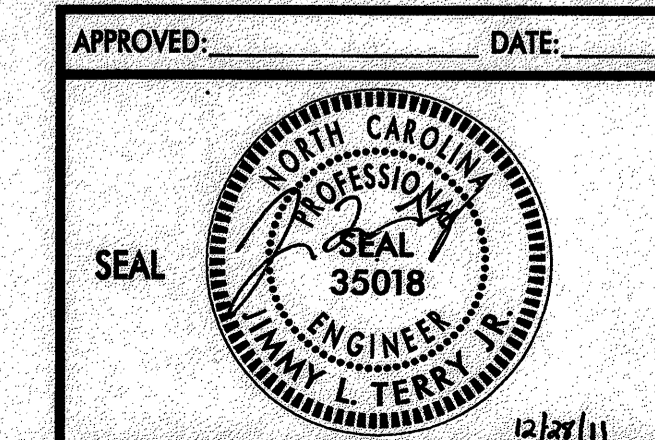
TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

- Q) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLAN.
- R) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- S) 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.).

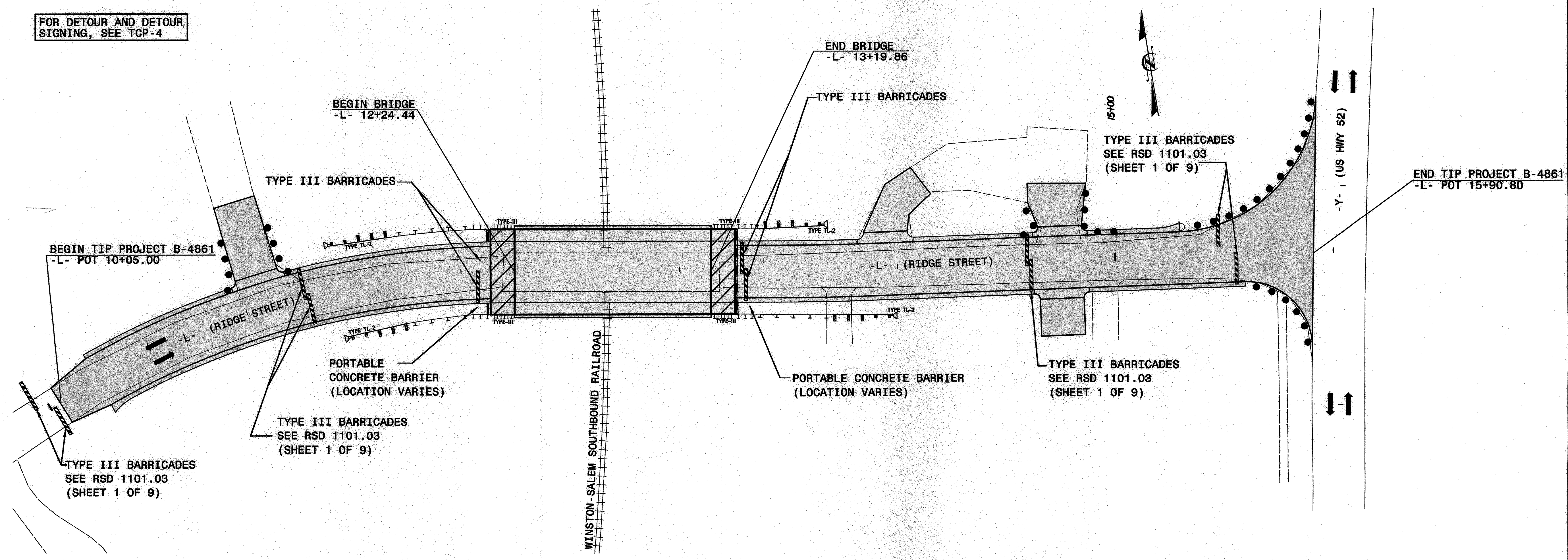
PLANS PREPARED BY:
 TGS ENGINEERS
 SUITE 141
 975 WALNUT STREET
 CARY, NC 27511
 PH (919) 319-8850
 CORP. LICENSE NO. C-0275



PROJECT NOTES	
SCALE: NONE	REVISIONS
DATE: OCT10	
DWG. BY: SGM	
DESIGN BY: JLT	
REVIEWED BY: JLT	
	CADD FILE

*****SYTIME*****
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FOR DETOUR AND DETOUR
SIGNING, SEE TCP-4



PHASING NOTES

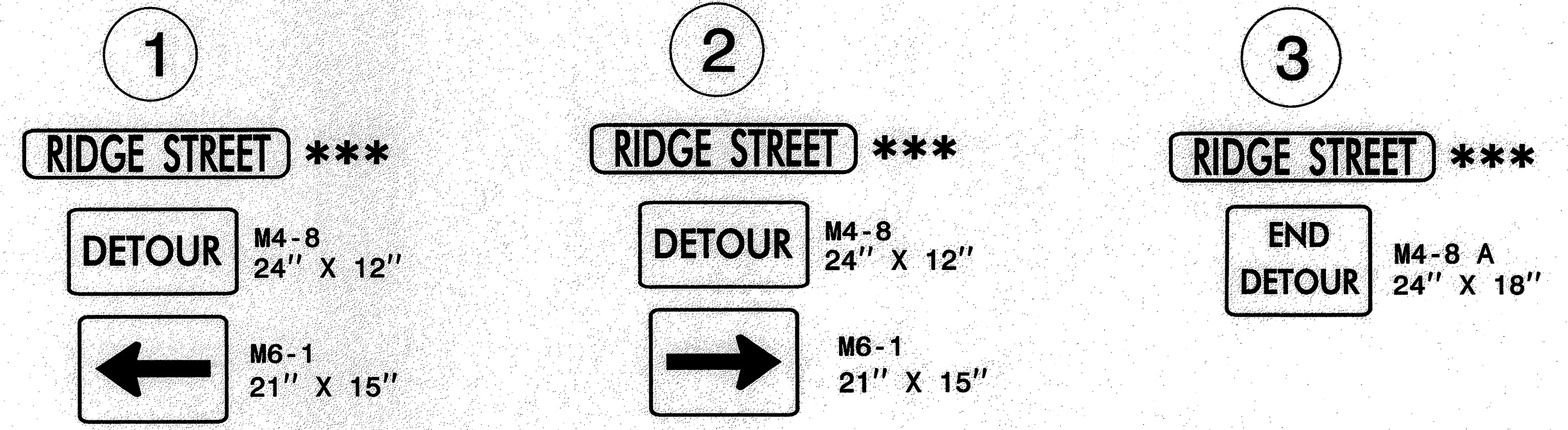
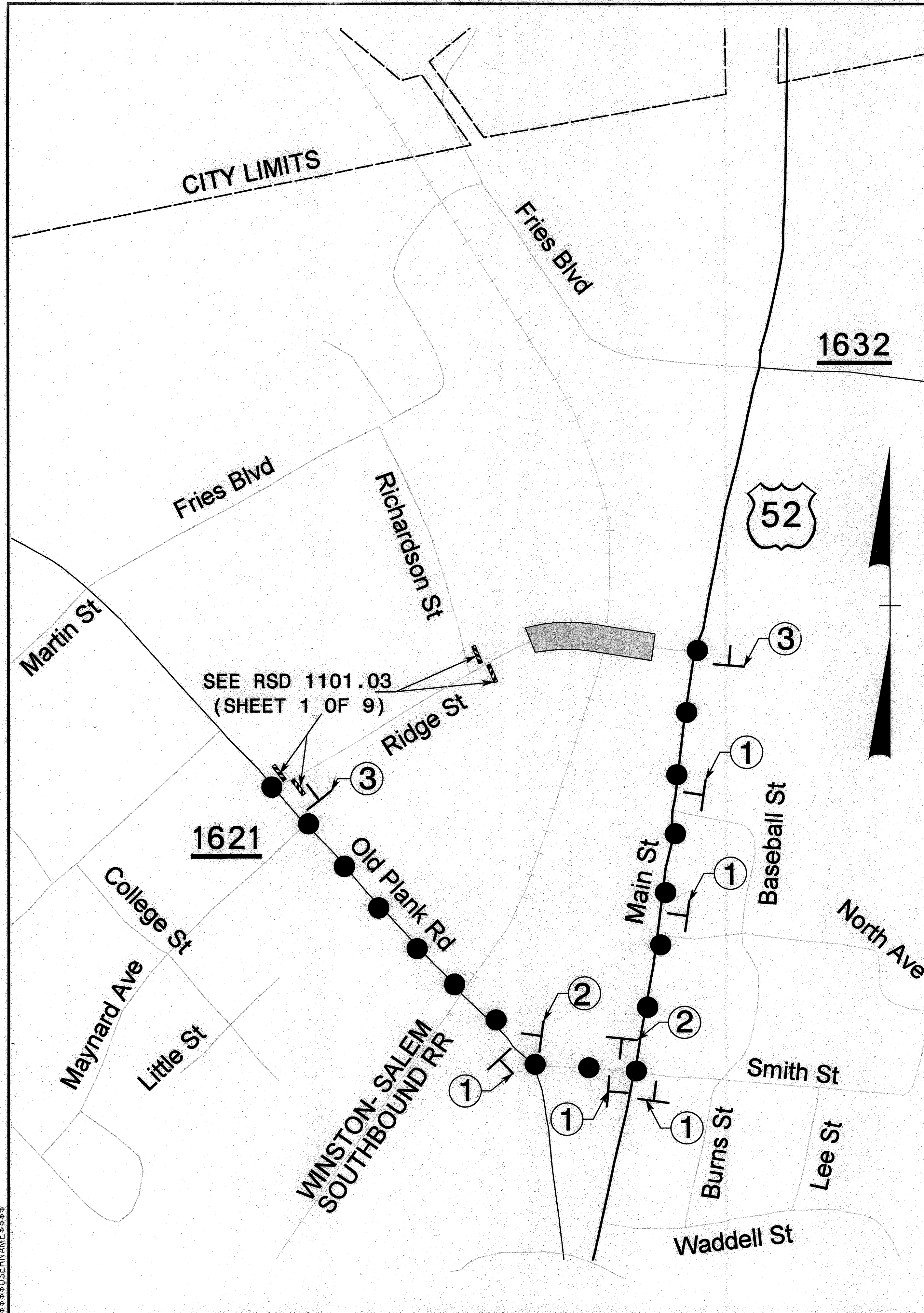
- STEP 1: INSTALL ALL DETOUR ROUTE SIGNS AS SHOWN ON SHEET TCP-4.
- STEP 2: INSTALL TYPE III BARRICADES AND SIGNS AND CLOSE RIDGE ST (-L-) TO TRAFFIC AS SHOWN IN ROADWAY STANDARD DRAWING 1101.03 (SHEET 1 OF 9) AND ON SHEET TCP-3 AND TCP-4.
- STEP 3: DEMOLISH AND REMOVE THE EXISTING BRIDGE OVER WINSTON-SALEM SOUTHBOUND RAILROAD. CONSTRUCT THE NEW BRIDGE OVER WINSTON-SALEM SOUTHBOUND RAILROAD AND THE FOLLOWING UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE:
 RIDGE ST (-L-) FROM STA. 10+05+/- TO STA. 12+24.44 (BEGIN BRIDGE)
 RIDGE ST (-L-) FROM 13+14.44 (END BRIDGE) TO 15+90.80
 NOTE: TRAFFIC ACCESS MUST BE MAINTAINED TO LOCAL STREETS AND DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION. (SEE LOCAL NOTE 1 ON SHEET TCP-2)
 NOTE: USE STD. 1101.02 (SHEET 1 OF 9) WHEN CONSTRUCTING TIE-IN WITH US HWY 52.
- STEP 4: REFERRING TO SHEET PM-1, PLACE PERMANENT PAVEMENT MARKINGS AND PERMANENT RAISED REFLECTIVE PAVEMENT MARKERS ON THE FOLLOWING:
 RIDGE ST (-L-) FROM STA. 10+05+/- TO STA. 15+90.80
- STEP 5: REMOVE BARRICADES AND ALL TEMPORARY SIGNS AND OPEN RIDGE ST (-L-) TO TRAFFIC IN FINAL PATTERN.

- #### LEGEND
- ● ● DRUMS
 - ▨ PROPOSED CONSTRUCTION
 - ▩ PROPOSED PAVEMENT REMOVAL


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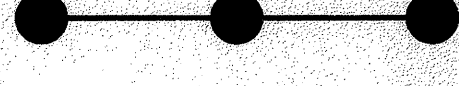
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SCALE: NONE			REVISIONS											
DATE: OCT10														
DWG. BY: SGM														
DESIGN BY: JLT														
REVIEWED BY: JLT		CARD FILE												

SYSTEMS DGN USERAME



LEGEND



 CONSTRUCTION AREA


 DETOUR ROUTE

*** SEE SHEET TCP-5 FOR SIGN DESIGN


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 \$\$\$\$\$\$USER\$\$\$\$\$
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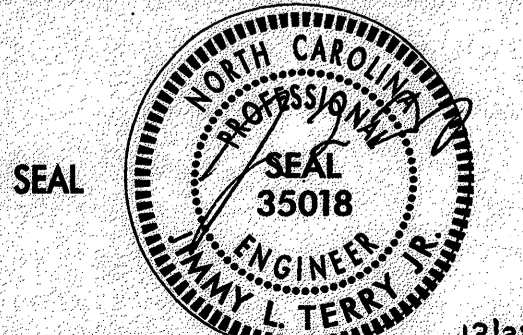

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APPROVED:	DATE:	DETOUR	
	SCALE:	NONE	
	DATE:	OCT10	
	DWG. BY:	SGM	
	DESIGN BY:	JLT	
REVIEWED BY:	JLT	REVISIONS	

SIGN NUMR: DET-1 TYPE: D QUANTITY: 1	TSv3.31 BACKG ORANGE COPY COLOR: BLACK	DESIGN BY: JLT PROJECT ID: B-4861	CK BY: DIV: 10	STD #: 0 DATE: 10/12/2010	VERTICAL SPACING INCHES [y] 5.13 SPACE											
SIGN WIDTH: 54 INCHES HEIGHT: 24 INCHES TOTAL AREA : (S.F.) 9.00	MAJ. COPY SERIES: C ROUTE MARKERS:				5.00 LINE 1 C 10.1 3.75 SPACE											
BORDR TYPE: RECESSED RECESS 0.38 INCHES WIDTH: 0.63 INCHES RADII: 1.50 INCHES	ARROW TYPES:				5.00 LINE 2 C 18.9 5.13 0.00 0.00 0.00 0.00 0.00 0.00											
NO. Z BARS: #N/A VHB: LENGTH: #N/A INCHES	MAT'L: 0.125 " ALUMINUM	MOUNTED ON 2 U POSTS			0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00											
<p>USE NO 1,4</p> <ol style="list-style-type: none"> Legend and border shall be direct applied black non-reflective sheeting. Legend and border shall be direct applied non-reflective sheeting. Shields shall be encapsulated lens reflective sheeting on .032" aluminum and demountable. Background shall be type VII, VIII, or IX flourescent orange reflective sheeting. Background shall be enclosed lens refl. sheeting. Center arrow(s) vertically on sign. 					TOTAL: 24 0.00											
SIZE/SERIES	LT MARGIN	SIGN COPY										RT MARGIN				
TYPE: C	7.43	R	I	D	G	E	S	T	R	E	E	T	0.00	0.00		
#/LC: 5.00 INCH	[x]	3.79	1.76	3.58	3.79	2.50	4.10	3.58	3.34	3.79	3.34	3.07	2.50	46.6	0.0	
SPCE: 1.00 FACTOR																
LINE 1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.43
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\$\$\$SYTIME\$\$\$\$
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\$\$\$USERNAME\$\$\$\$

PLANS PREPARED BY:

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 SUITE 141
 975 WALNUT STREET
 CARY, NC 27511
 PH (919) 319-8850
 CORP. LICENSE NO. C-0275

APPROVED: _____	DATE: _____	DETOUR SIGN DETAIL	
	SCALE: NONE		REVISIONS
	DATE: OCT10		
	DWG. BY: SGM		
	DESIGN BY: JLT		
REVIEWED BY: JLT			