

WBS ELEMENT: 47015

CONTRACT: C202141

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

STATE WBS PROJECT REFERENCE NO. B-5180	SHEET NO. TCP-1
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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"- ROADWAY DESIGN 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
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
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 - Mounting Height & Lateral Clearance
1130.01	Drums
1135.01	Cones
1145.01	Barricades - Type I, II, III and Permanent
1150.01	Flagging Devices
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	Pavement Markings - Line Types and Offsets
1205.02	Pavement Markings - Divided and Undivided Roadways
1205.04	Pavement Markings - Intersections
1205.05	Pavement Markings - Turn Lanes
1205.08	Pavement Markings - Symbols and Word Messages
1205.09	Pavement Markings - Painted Islands
1205.11	Pavement Markings - Railroad Crossings
1205.12	Pavement Markings - Bridges
1250.01	Pavement Marker Spacing
1253.01	Snowplowable Raised Pavement Markers
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, & TEMPORARY PAVEMENT MARKING SCHEDULE
TCP-2	PROJECT NOTES
TCP-3	OVERVIEW & TRAFFIC CONTROL PHASING
TCP-4	DETOUR
TCP-5	DETOUR SIGN LAYOUT
PM-1	FINAL PAVEMENT MARKING SCHEDULE & PAVEMENT MARKING PLAN
NCMA-1	ADVANCE WARNING WORK ZONE SIGNS FOR "MOVING AHEAD"
NCMA-2	SIGN DESIGN FOR CONTRACTOR'S COMPANY NAME

TEMPORARY PAVEMENT MARKING SCHEDULE

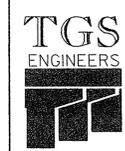
SYMBOL	DESCRIPTION	PAY ITEM	QUANTITY BREAKDOWN	TOTAL QUANTITY
PAVEMENT MARKINGS LINES				
P4	WHITE STOPBAR (2X)	PAINT (24")	124 LF	TOTAL 124 LF
PD	2 FT. WHITE MINISKIP (2X)	PAINT (4")	39 LF	TOTAL 4,495 LF
PI	YELLOW DOUBLE CENTER (2X)		4,216 LF	
PA	WHITE EDGELINE (2X)		240 LF	
PV	YELLOW DIAGONAL (2X)	PAINT (8")	232 LF	TOTAL 232 LF
PAINTMARKING SYMBOLS				
QA	LEFT TURN ARROW (2X)		4 EA	TOTAL 10 EA
QB	RIGHT TURN ARROW (2X)		2 EA	
QC	STRAIGHT ARROW (2X)		2 EA	
QE	COMBO STRAIGHT/RIGHT. (2X)		2 EA	

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
 - FLASHING ARROW PANEL (TYPE C)
 - TYPE 'B' WARNING LIGHT
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - WARNING FLAGS
 - 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

APPROVED:
DATE: Oct. 13, 2008

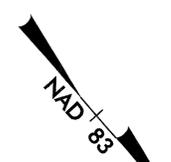
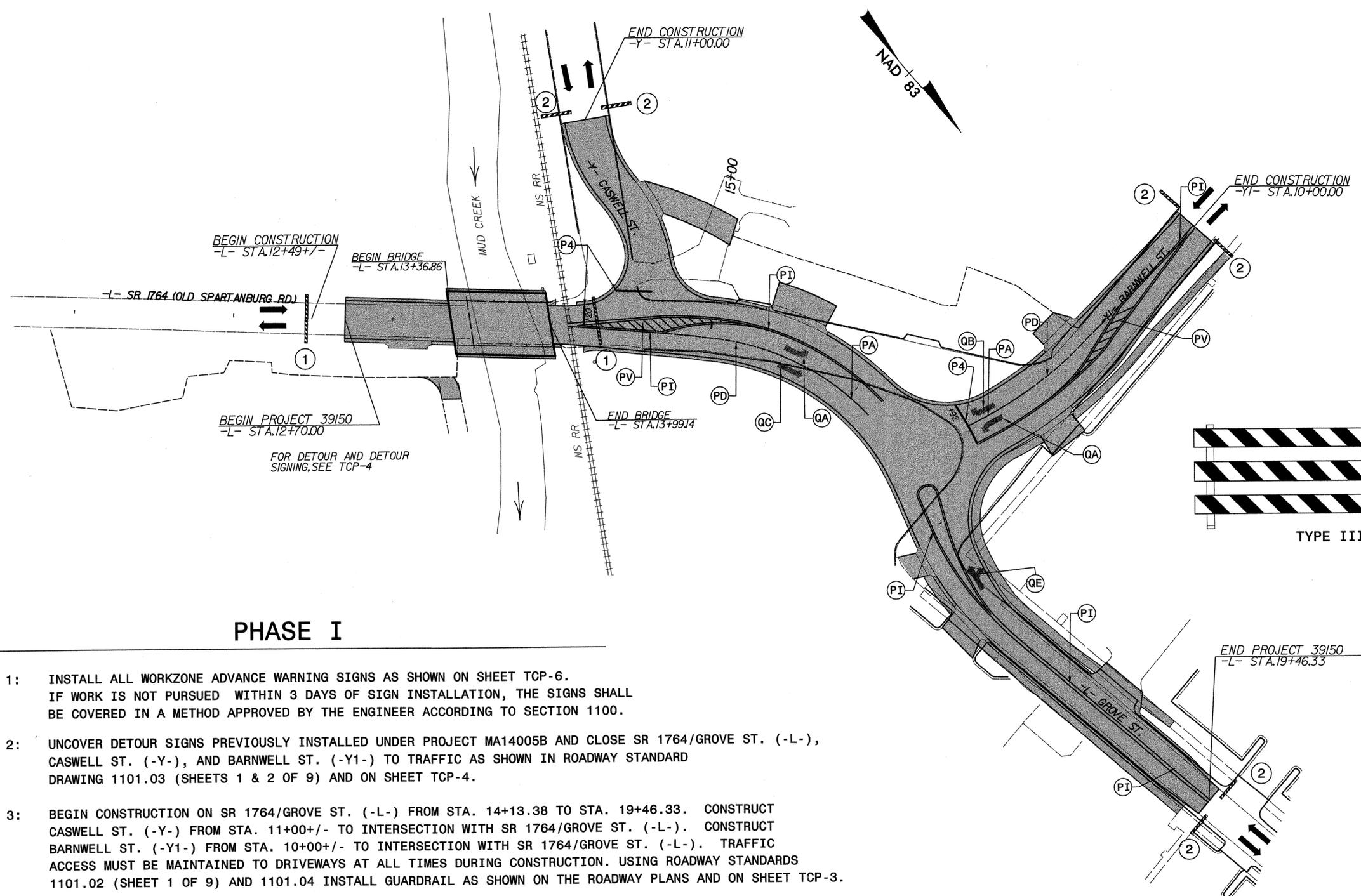
PLAN PREPARED FOR N.C.D.O.T. BY:



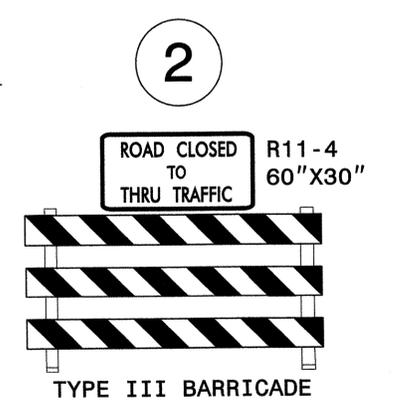
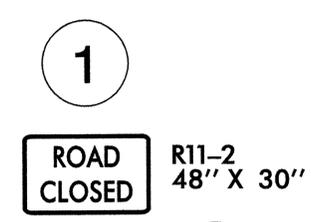
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SUITE 141
975 WALNUT STREET
CARY, NC 27511
PH (919) 319-8850

C. L. FLOWE, PE PROJECT ENGINEER
W. C. PARKER, PE DESIGN ENGINEER
DESIGN TECHNICIAN

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



LEGEND
 [Shaded Area] PROPOSED CONSTRUCTION



PHASE I

- STEP 1: INSTALL ALL WORKZONE ADVANCE WARNING SIGNS AS SHOWN ON SHEET TCP-6. IF WORK IS NOT PURSUED WITHIN 3 DAYS OF SIGN INSTALLATION, THE SIGNS SHALL BE COVERED IN A METHOD APPROVED BY THE ENGINEER ACCORDING TO SECTION 1100.
- STEP 2: UNCOVER DETOUR SIGNS PREVIOUSLY INSTALLED UNDER PROJECT MA14005B AND CLOSE SR 1764/GROVE ST. (-L-), CASWELL ST. (-Y-), AND BARNWELL ST. (-Y1-) TO TRAFFIC AS SHOWN IN ROADWAY STANDARD DRAWING 1101.03 (SHEETS 1 & 2 OF 9) AND ON SHEET TCP-4.
- STEP 3: BEGIN CONSTRUCTION ON SR 1764/GROVE ST. (-L-) FROM STA. 14+13.38 TO STA. 19+46.33. CONSTRUCT CASWELL ST. (-Y-) FROM STA. 11+00+/- TO INTERSECTION WITH SR 1764/GROVE ST. (-L-). CONSTRUCT BARNWELL ST. (-Y1-) FROM STA. 10+00+/- TO INTERSECTION WITH SR 1764/GROVE ST. (-L-). TRAFFIC ACCESS MUST BE MAINTAINED TO DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION. USING ROADWAY STANDARDS 1101.02 (SHEET 1 OF 9) AND 1101.04 INSTALL GUARDRAIL AS SHOWN ON THE ROADWAY PLANS AND ON SHEET TCP-3.
- STEP 4: ONCE MA14005B IS COMPLETE AND OPEN TO TRAFFIC, DEMOLISH AND REMOVE EXISTING BRIDGE AND BEGIN CONSTRUCTION ON SR 1764/GROVE ST. (-L-) AND BRIDGE FROM STA. 12+49+/- TO 14+08.29. COMPLETE CONSTRUCTION OF CASWELL ST. (-Y-) FROM STA. 11+00+/- TO INTERSECTION WITH SR 1764/GROVE ST. (-L-). COMPLETE CONSTRUCTION OF BARNWELL ST. (-Y1-) FROM STA. 10+00+/- TO INTERSECTION WITH SR 1764/GROVE ST. (-L-). TRAFFIC ACCESS MUST BE MAINTAINED TO DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION. USING ROADWAY STANDARDS 1101.02 (SHEET 1 OF 9) AND 1101.04 INSTALL GUARDRAIL AS SHOWN ON THE ROADWAY PLANS AND ON SHEET TCP-3.
- STEP 5: PLACE PERMANENT PAVEMENT MARKINGS AND SNOWPLOWABLE RAISED REFLECTIVE PAVEMENT MARKERS AS FOLLOWS:
 (-L-) FROM STA. 12+70+/- TO STA. 19+46.33
 (-Y-) FROM STA. 11+00+/- TO INTERSECTION WITH (-L-).
 (-Y1-) FROM STA. 10+00+/- TO INTERSECTION WITH (-L-).
 (REFER TO SHEET PM-1).
- STEP 6: REMOVE BARRICADES, DETOUR SIGNS, AND WORKZONE WARNING SIGNS AND OPEN SR 1764/GROVE ST. (-L-), CASWELL ST. (-Y-), & BARNWELL ST. (-Y1-) TO TRAFFIC IN FINAL PATTERNS.

BEGIN CONSTRUCTION
 -L- STA. 12+49+/-

BEGIN BRIDGE
 -L- STA. 13+36.86

-L- SR 1764 (OLD SPARTANBURG RD)

BEGIN PROJECT 39150
 -L- STA. 12+70.00

FOR DETOUR AND DETOUR
 SIGNING, SEE TCP-4

END CONSTRUCTION
 -Y1- STA. 10+00.00

END CONSTRUCTION
 -Y- STA. 11+00.00

END PROJECT 39150
 -L- STA. 19+46.33

END BRIDGE
 -L- STA. 13+99.14

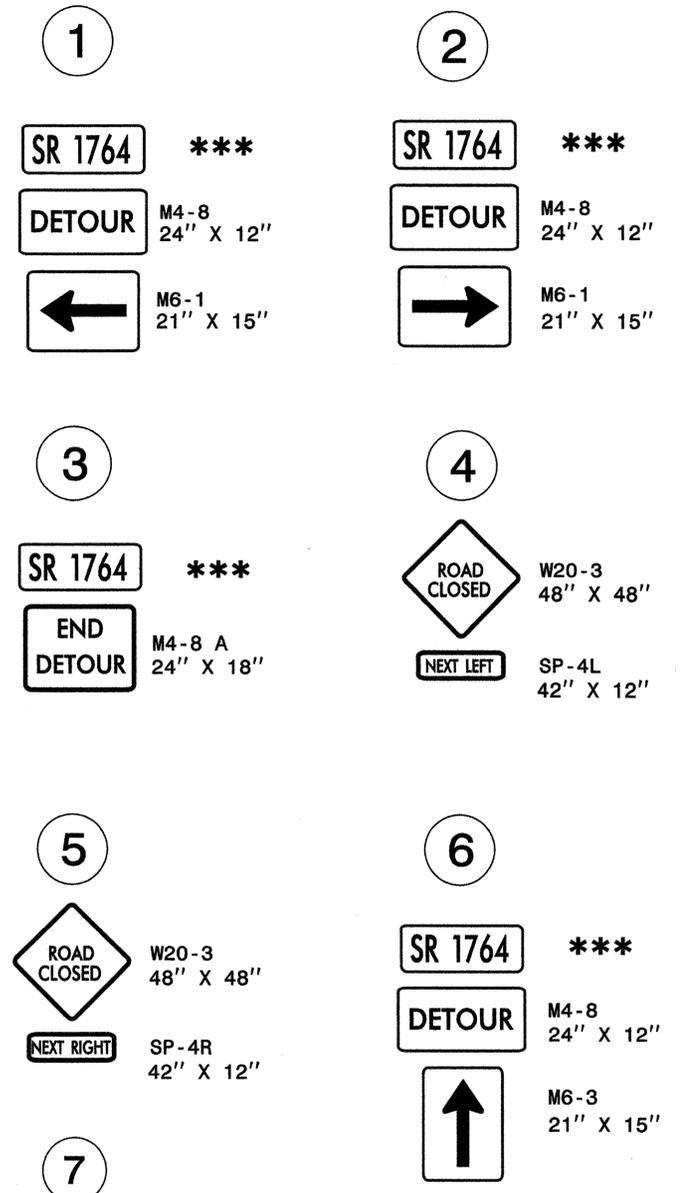
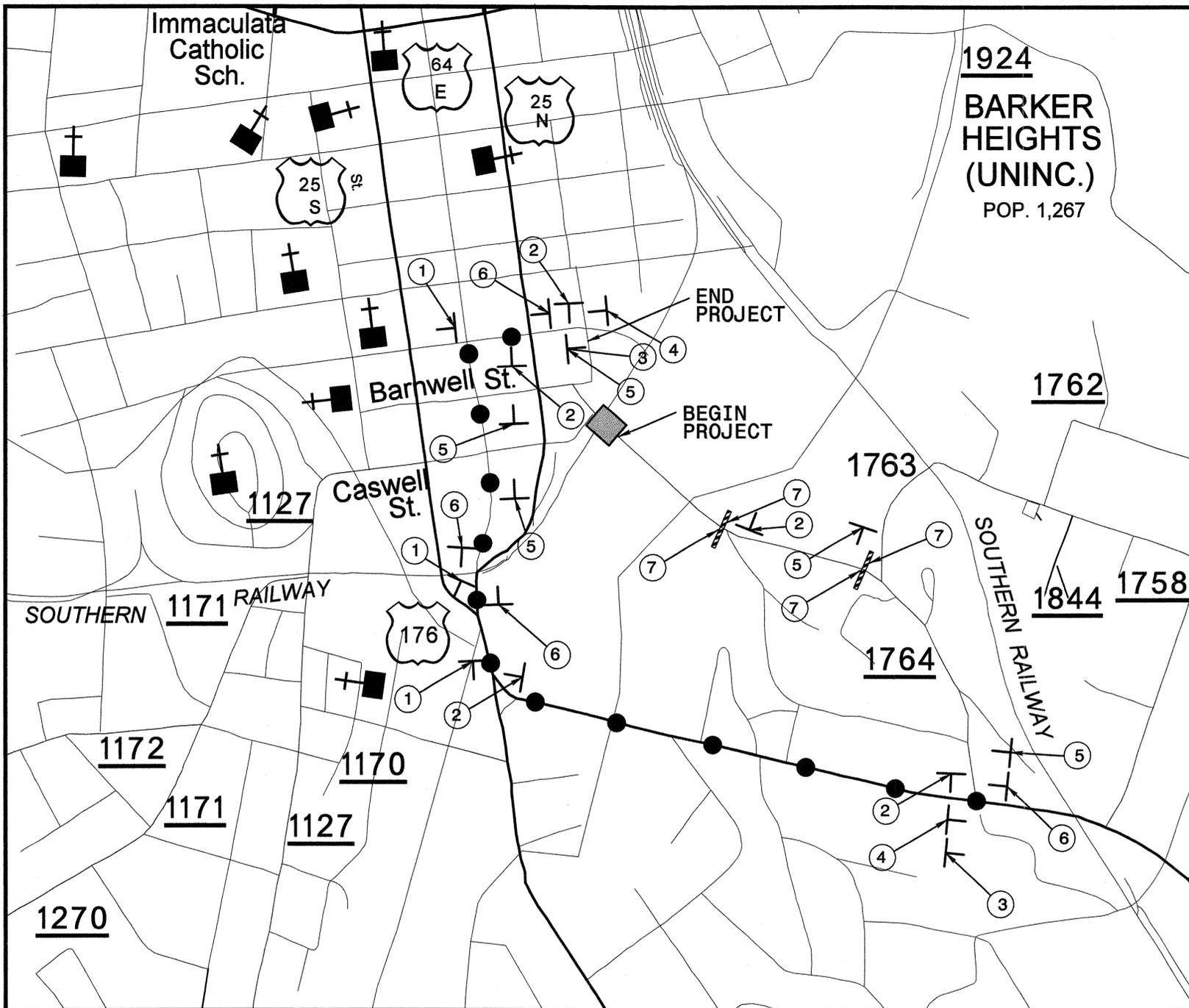
PLANS PREPARED BY:
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 TGS ENGINEERS
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 975 WALNUT STREET
 CARY, NC 27511
 PH (919) 319-8850

APPROVED: *[Signature]* DATE: 11-7-08

OVERVIEW & PHASING

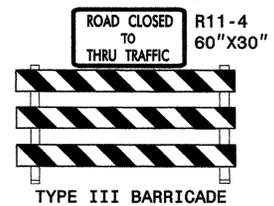
SCALE: NONE		REVISIONS
DATE: FEB, 2008		
DWG. BY: JLT		
DESIGN BY: JLT		
REVIEWED BY: WCP		

SYSTEMTIME: 11/16/2008 3:37:08 PM
 USER: JLT
 FILE: \\TC\MA14005B_LCP_planning.dgn



LEGEND

CONSTRUCTION AREA
 DETOUR ROUTE
 *** SEE SHEET TCP-5 FOR SIGN DESIGN



PLANS PREPARED BY:
TGS ENGINEERS
 TGS ENGINEERS
 SUITE 141
 975 WALNUT STREET
 CARY, NC 27511
 PH (919) 319-8850

APPROVED: *[Signature]* DATE: 10/13/05
 SEAL

 SEAL

DETOUR	
SCALE: NONE	REVISIONS
DATE: OCT, 2005	
DWG. BY: JLT	
DESIGN BY: JLT	
REVIEWED BY: WCP	

SYSTEMTIME: 10/13/2005 9:53:49 AM
 DGN: TCP-4.DGN
 USER: JLT

TCP-4.MXD: TCP-4.DETOUR.dgn 10/13/2005 9:53:49 AM

SIGN NUMR: DET-1 Tsv3.31 DESIGN BY: SGM CK BY: _____ STD #: 0 VERTICAL
 TYPE: D BACKG ORANGE PROJECT ID:MA14013B DIV:14 DATE: 10/31/05 SPACING

SIGN WIDTH: 36 INCHES MAJ. COPY SERIES: C
 HEIGHT: 18 INCHES
 TOTAL AREA : (S.F.) 4.50 ROUTE MARKERS:

BORDR TYPE: RECESSED
 RECESS 0.38 INCHES
 WIDTH: 0.63 INCHES
 RADII: 1.50 INCHES

NO. Z BARS: #N/A VHB:
 LENGTH: #N/A INCHES MAT'L: 0.080 " ALUMINUM



6.50 SPACE
 5.00 LINE 1
 C 11.5
 6.50 SPACE
 0.00
 0.00
 0.00
 0.00
 0.00
 0.00
 0.00
 0.00
 0.00
 0.00
 0.00

MOUNTED ON 1 U POST

TOTAL: 18 0.00

SIZE/SERIES	LT MARGIN		SIGN COPY										RT MARGIN			
CHAR: 5.00 INCH			S	R	1	7	6	4								
TYPE: C	6.66	3.79	2.74	4.10	1.86	3.58	3.58	3.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#/LC: 5.00 INCH	[x]	6.7	10.4	13.2	17.3	19.1	22.7	26.3	29.3	0.0	0.0	0.0	0.0	0.0	0.0	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	0.00	6.66
	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	0.0

\$\$\$SYTIME\$\$\$
 \$\$\$DGN\$\$\$
 \$\$\$SERNAME\$\$\$

APPROVED: *[Signature]* DATE: 10/31/05

DETOUR SIGN LAYOUT

SCALE: NONE
 DATE: OCT, 2005
 DWG. BY: SGM
 DESIGN BY: SGM
 REVIEWED BY: WCP

SEAL

SEAL 25474
 ENGINEER
 CRAIG PAKES

REVISIONS

CADD FILE