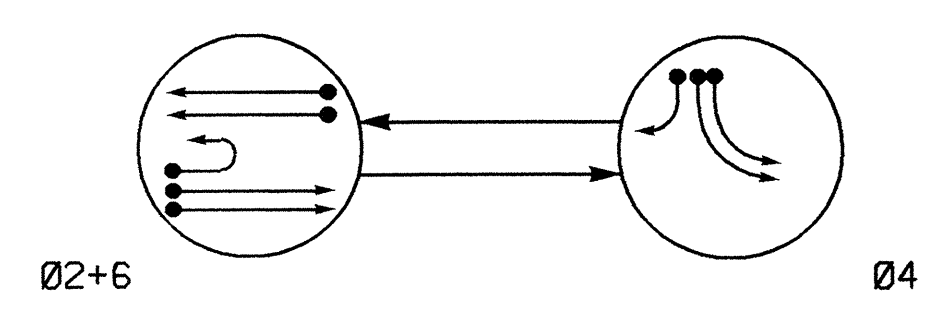


PHASING DIAGRAM

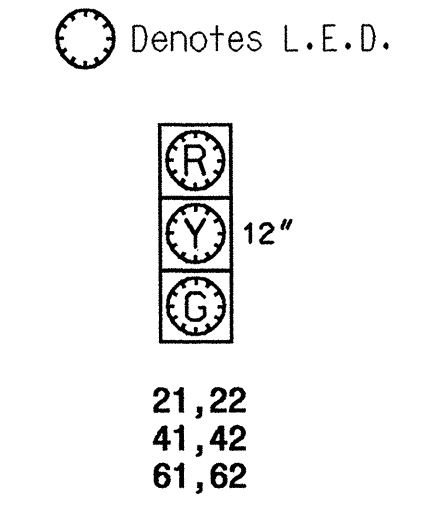


**PHASING DIAGRAM DETECTION LEGEND**  
 ● DETECTED MOVEMENT  
 ◄ UNDETECTED MOVEMENT (OVERLAP)  
 - - - UNSIGNALIZED MOVEMENT  
 - - - PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02+6	04	FLSH
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y

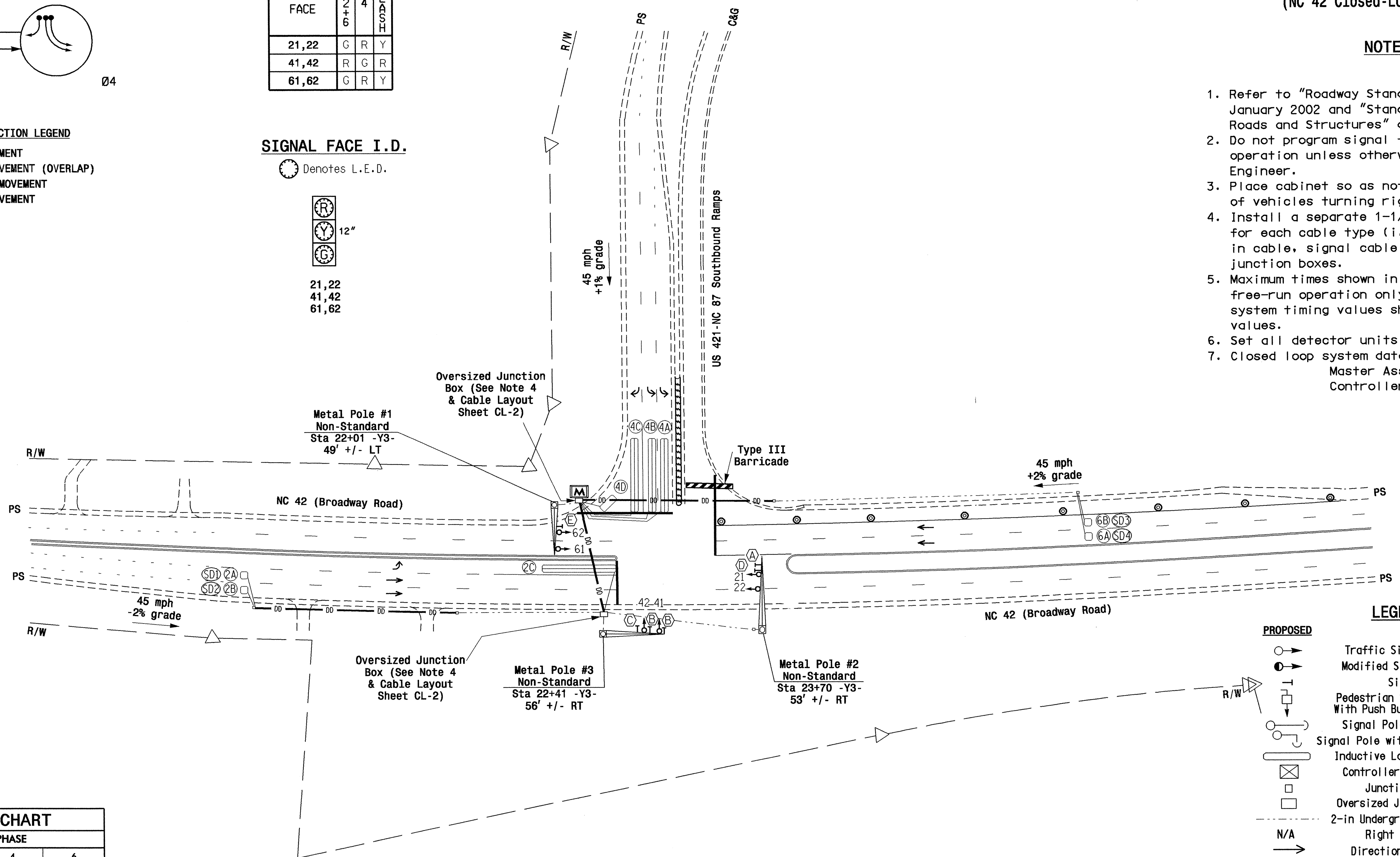
SIGNAL FACE I.D.



2 Phase Fully Actuated (NC 42 Closed-Loop System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Place cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Install a separate 1-1/4" polyethylene conduit for each cable type (i.e., fiber optic cable, lead-in cable, signal cable) between the oversized junction boxes.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- Set all detector units to presence mode.
- Closed loop system data:  
 Master Asset #: 10805,  
 Controller Asset #: 1064.



2070L TIMING CHART

FEATURE	PHASE		
	2	4	6
Min Green 1 *	12	7	12
Extension 1 *	6.0	1.0	6.0
Max Green 1 *	90	20	90
Yellow Clearance	4.7	4.0	4.7
Red Clearance	1.5	2.0	1.5
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	1.5	-	1.5
Max Variable Initial *	34	-	34
Time Before Reduction *	15	-	15
Time To Reduce *	30	-	30
Minimum Gap	3.2	-	3.2
Recall Mode	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	YELLOW
Dual Entry	-	-	-
Simultaneous Gap	ON	ON	ON

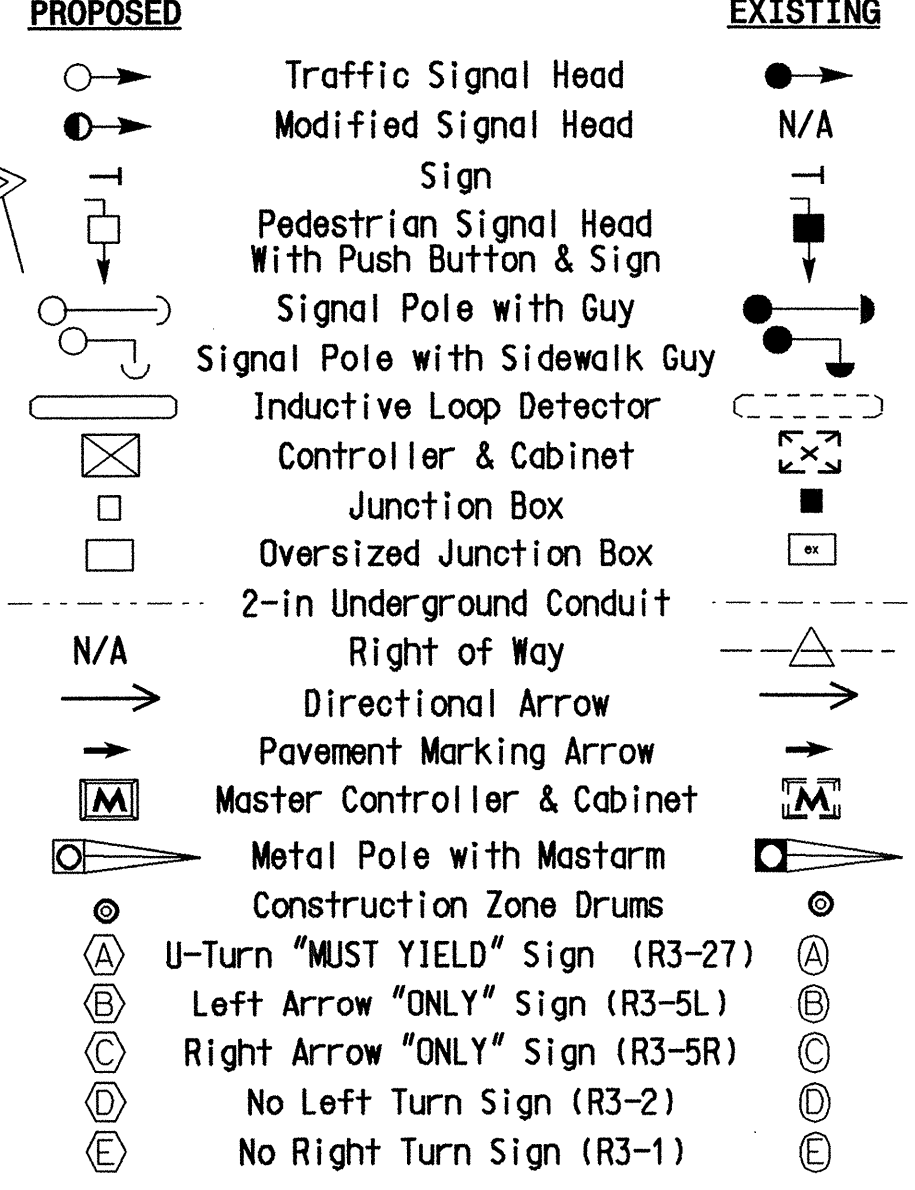
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A-SD1	6x6	5	300	Y	2	Y	Y	-	Y	-	-	Y
2B-SD2	6x6	5	300	Y	2	Y	Y	-	Y	-	-	Y
2C	6x60	2-4-2	0	Y	2	Y	Y	Y	-	-	3	Y
4A	6x60	2-4-2	0	Y	4	Y	Y	-	-	-	15	Y
4B	6x60	2-4-2	0	Y	4	Y	Y	-	-	-	-	Y
4C	6x60	2-4-2	0	Y	4	Y	Y	-	-	-	15	Y
4D	6x15	3	0	Y	4	Y	Y	-	-	-	15	Y
6A-SD3	6x6	5	300	Y	6	Y	Y	-	Y	-	-	Y
6B-SD4	6x6	5	300	Y	6	Y	Y	-	Y	-	-	Y

PLAN QUANTITIES

Pay Item	Feet
Signal Cable	670
Messenger Cable	0
Lead-in Cable	1030

LEGEND



\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

New Installation

122 N. McDowell St., Raleigh, NC 27603

1616 EAST WILLBROOK ROAD, SUITE 310  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888

NC 42 (Broadway Road)  
 at  
 US 421/NC 87 Southbound Ramp

Division 08 Lee County Sanford  
 PLAN DATE: June 2004 REVIEWED BY: MR Cooney  
 PREPARED BY: LM Moon REVIEWED BY: JT Brooks

SCALE: 1"=50'

SEAL  
 NORTH CAROLINA  
 PROFESSIONAL ENGINEER  
 LISA M. MOON  
 022516

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