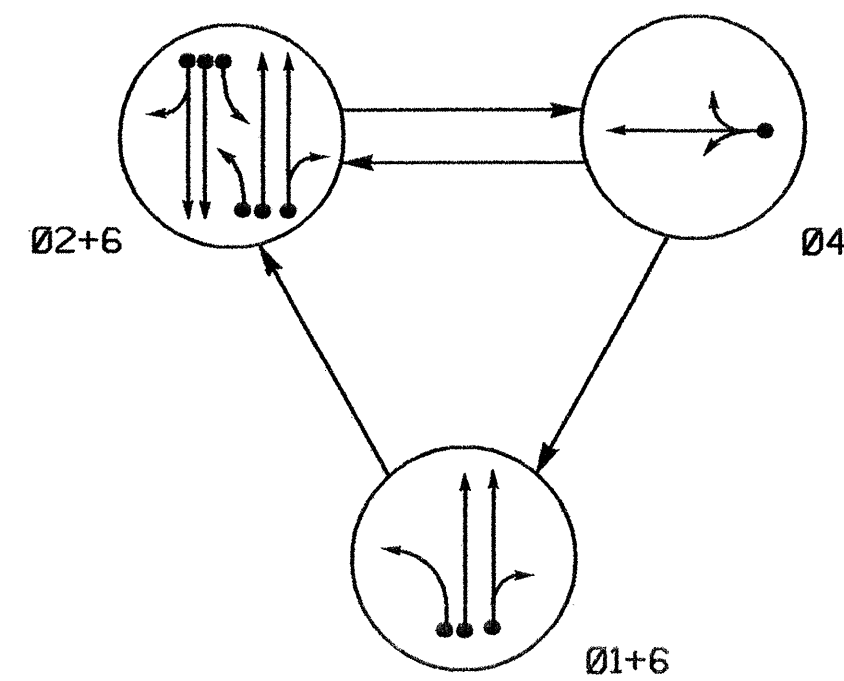
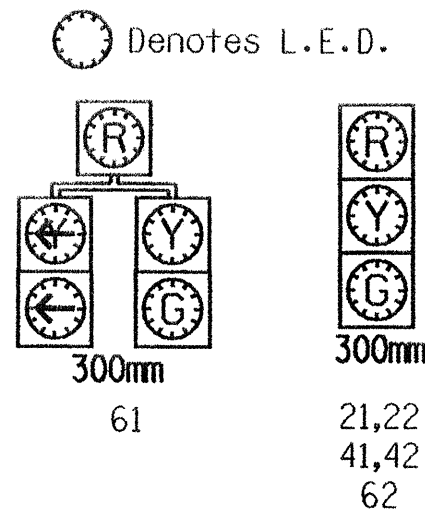


PHASING DIAGRAM



SIGNAL FACE	PHASE			
	01+6	02+6	04	FLASH
21,22	R	G	R	Y
41,42	R	R	G	R
61	G	G	R	Y
62	G	G	R	Y

SIGNAL FACE I.D.



2070L LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS				DETECTOR PROGRAMMING								
LOOP	SIZE (m)	TURNS	DISTANCE FROM STOPBAR (m)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	1.8X18	2-4-2	0	Y	1	Y	Y	-	-	-	15	Y
2A/S04	1.8X1.8	6	90	Y	2	Y	Y	-	Y	-	3	Y
2B/S05	1.8X1.8	6	90	Y	2	Y	Y	-	Y	-	-	Y
2C	1.8X17	2-4-2	0	Y	2	Y	Y	Y	-	-	3	Y
4A	1.8X18	2-4-2	0	Y	4	Y	Y	-	-	-	5	Y
6A	*	*	90	*	6	Y	Y	-	-	-	-	Y

\* Microwave Detection Zone

3 Phase Fully Actuated NC 73 Closed Loop System

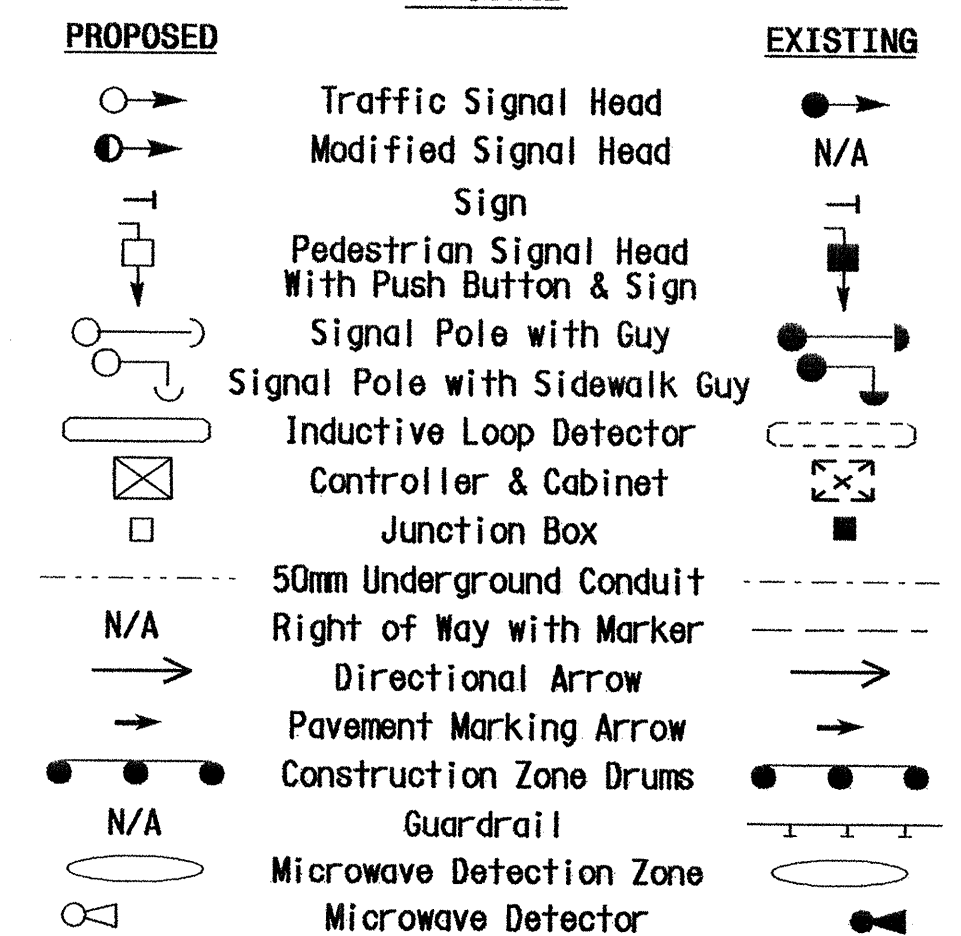
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Omit phase 1 during phase 2 on.
- Program controller to clear from phase 2+6 to phase 1+6 by progressing through phase 4 (see Electrical Details).
- 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: Controller Asset #1649.
- Run lead-in in existing conduit along the right side of the bridge.

PLAN QUANTITIES

Pay Item	Meters
Signal Cable	170
Messenger Cable	180
Lead-in Cable	440

LEGEND



FEATURE	2070L TIMING CHART			
	1	2	4	6
Min Green 1 *	7	12	7	12
Extension 1 *	1.0	6.0	1.0	6.0
Max Green 1 *	20	90	15	90
Yellow Clearance	4.0	4.7	4.0	4.7
Red Clearance	1.0	1.5	2.0	1.5
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	1.5	-	2.5
Max Variable Initial *	-	34	-	34
Time Before Reduction *	-	15	-	15
Time To Reduce *	-	45	-	45
Minimum Gap	-	3.0	-	3.0
Recall Mode	-	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

\* 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

Prepared in the Office of:  
  
 222 N. McDowell St., Raleigh, NC 27603

NC 73 at NC 16 SB Ramp-Loop B/ Service Road

Division 12 Lincoln County W. of Huntersville  
 PLAN DATE: August 2004 REVIEWED BY: J. P. Galloway  
 PREPARED BY: C.J. Collins REVIEWED BY:

SCALE: 1:500

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 J. P. Galloway  
 8/12/04  
 SIGNATURE DATE  
 S.C. INVENTORY NO. 12-1649