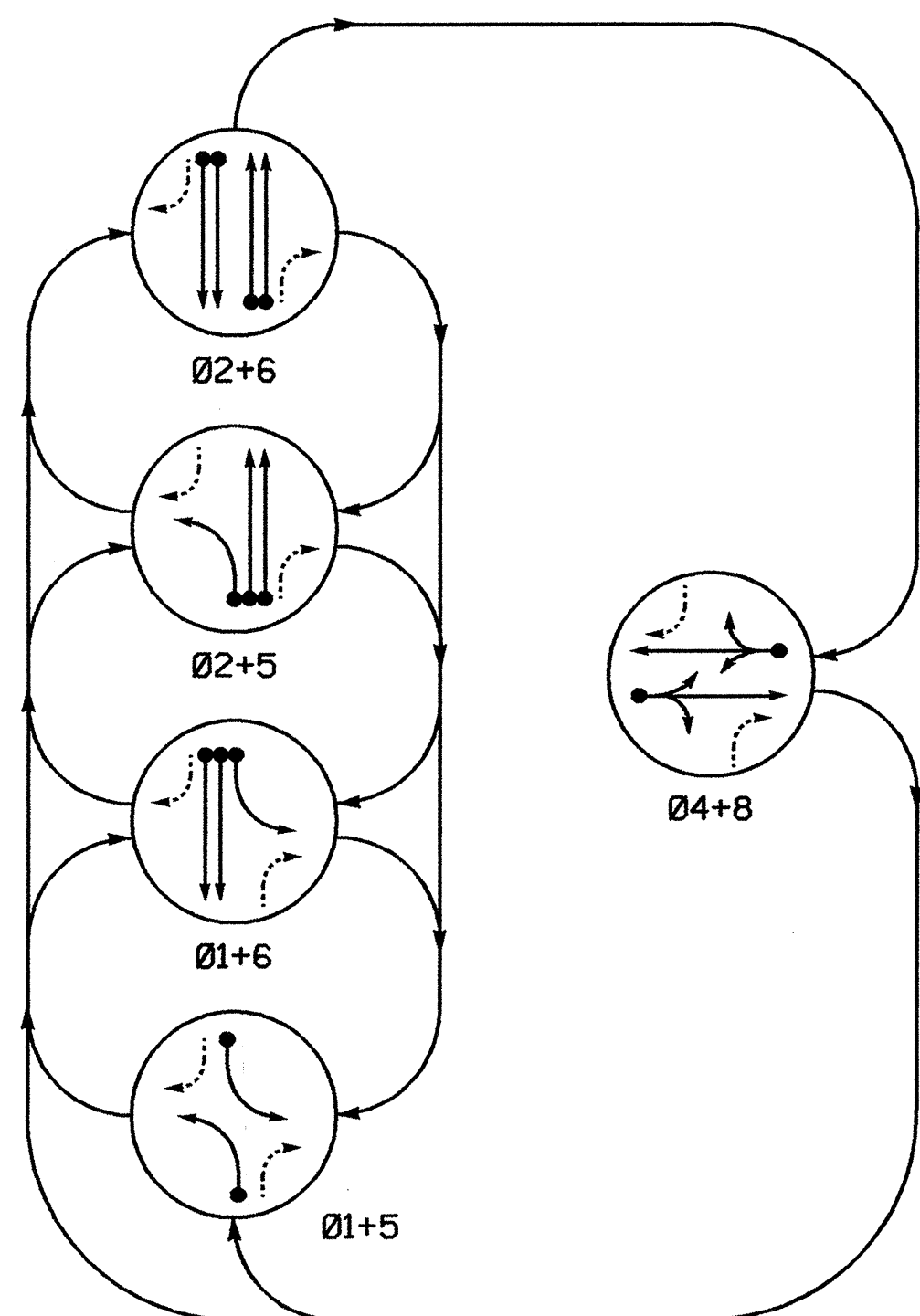


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- ◄ UNDETECTED MOVEMENT (OVERLAP)
- ⚡ UNSIGNALIZED MOVEMENT
- ⚡ PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.

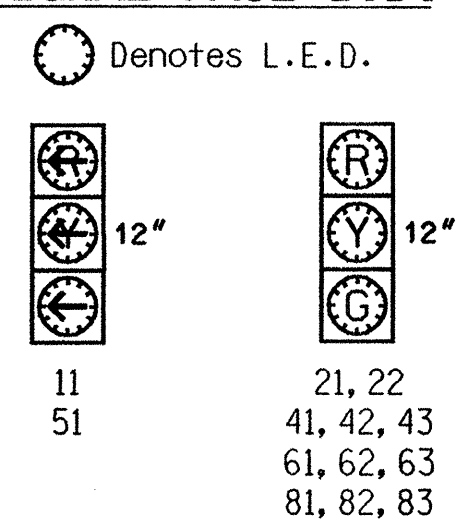


TABLE OF OPERATION

SIGNAL FACE	PHASE					
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	L.E.D.
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	Y
41, 42, 43	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62, 63	R	G	R	G	R	Y
81, 82, 83	R	R	R	R	G	R

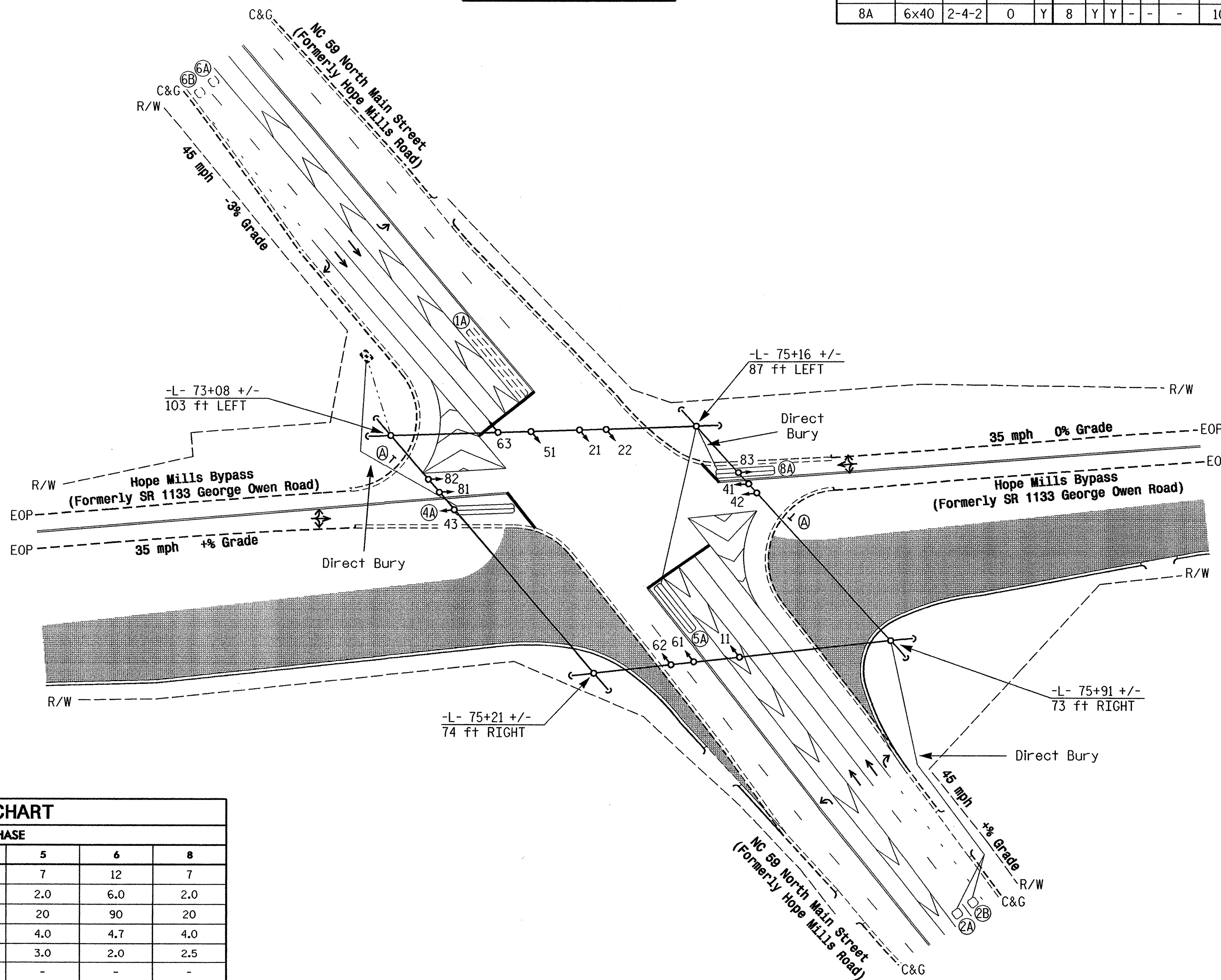
2070L LOOP & DETECTOR INSTALLATION

LOOP	INDUCTIVE LOOPS			DETECTOR PROGRAMMING							
	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	6x60	2-4-2	0	-	1	Y	Y	-	-	3	-
2A	6x6	6	300	Y	2	Y	Y	-	-	-	-
2B	6x6	6	300	Y	2	Y	Y	-	-	-	-
4A	6x40	2-4-2	0	Y	4	Y	Y	-	-	10	-
5A	6x40	2-4-2	0	Y	5	Y	Y	-	-	3	-
6A	6x6	4	300	-	6	Y	Y	-	-	-	-
6B	6x6	4	300	-	6	Y	Y	-	-	-	-
8A	6x40	2-4-2	0	Y	8	Y	Y	-	-	10	-

5 Phase Fully Actuated (NC 59 Closed Loop Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002. Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- During coordination, phase 1 or phase 5 may be lagged.
- Set all detector units to presence mode.
- Closed loop system data: Controller Asset #0610.



2070L TIMING CHART

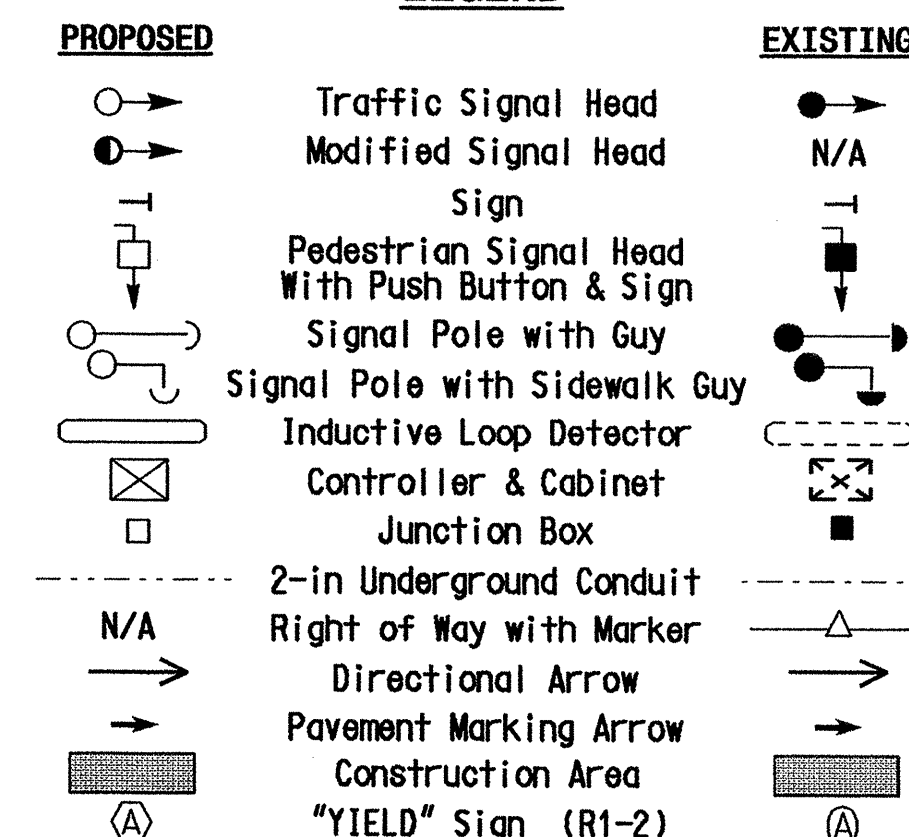
FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	1.0	6.0	2.0	2.0	6.0	2.0
Max Green 1 *	20	90	20	20	90	20
Yellow Clearance	4.0	4.7	4.0	4.0	4.7	4.0
Red Clearance	3.0	2.0	2.5	3.0	2.0	2.5
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	1.5	-
Max Variable Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.0	-	-	3.0	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	ON	ON	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.

PLAN QUANTITIES

Pay Item	Feet
Signal Cable	2530
Messenger Cable	880
Lead-in Cable	1460

LEGEND



Signal Upgrade: Phase II Temporary Design 1

Prepared in the Office of:

NC 59 North Main Street (Formerly Hope Mills Road) at Hope Mills Bypass (Formerly SR 1133 George Owen Road)
 Division 6 Cumberland County Hope Mills
 PLAN DATE: May 2003 REVIEWED BY: L.A. Elliott
 PREPARED BY: P.J. Porter REVIEWED BY: STF/JPG
 REVISIONS: _____ INIT. DATE: _____
 SCALE: 1"=50'
 SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 24393
 TIMOTHY J. WILLIAMS
 Signature: _____ DATE: 10/22/03
 SIG. INVENTORY NO. 06-0610T1