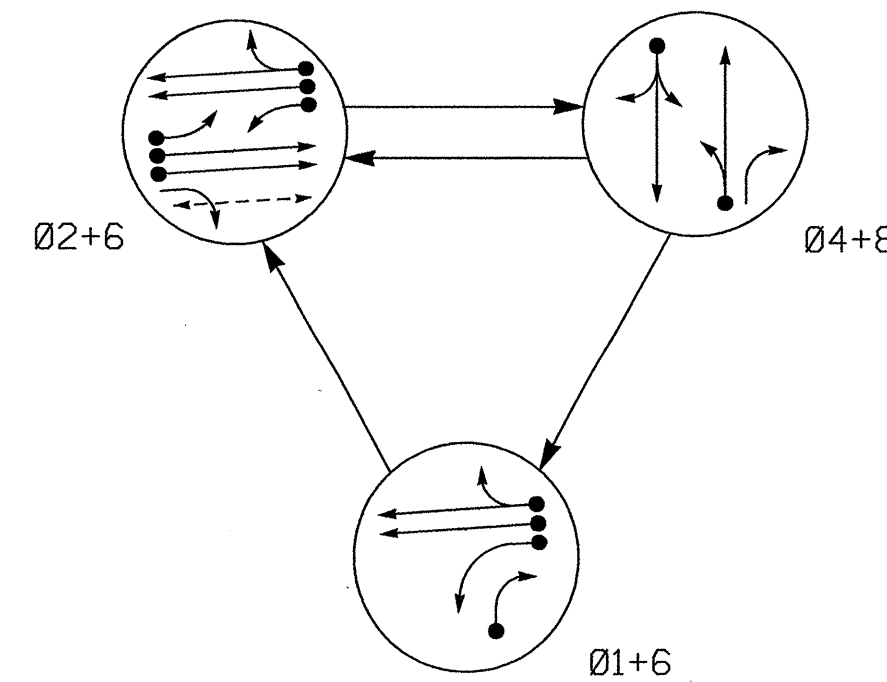


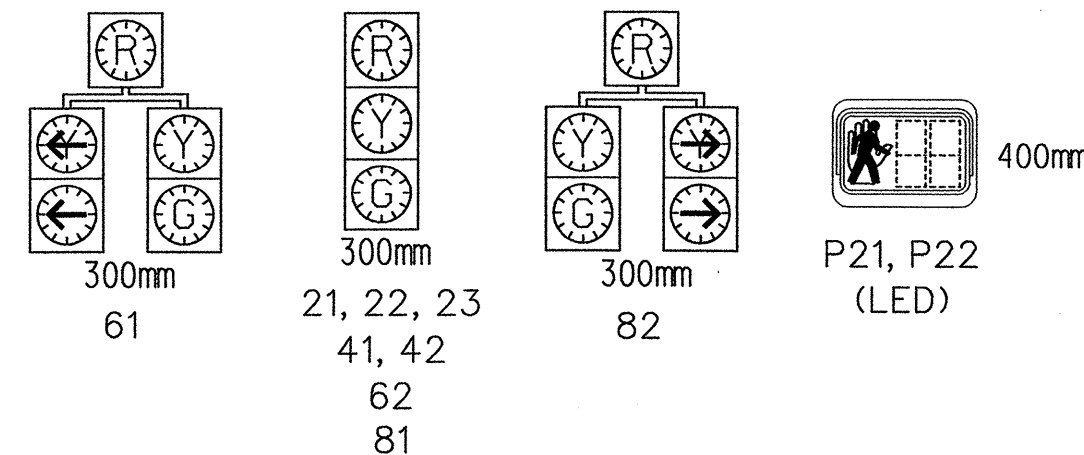
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	Ø1+6	Ø2+6	Ø4+8	FLS
21, 22, 23	R	G	R	Y
41, 42	R	R	G	R
62	G	G	R	Y
81	R	R	G	R
82	R	R	G	R
P21, P22	DW	W	DW	DRK

SIGNAL FACE I.D.

Denotes L.E.D.



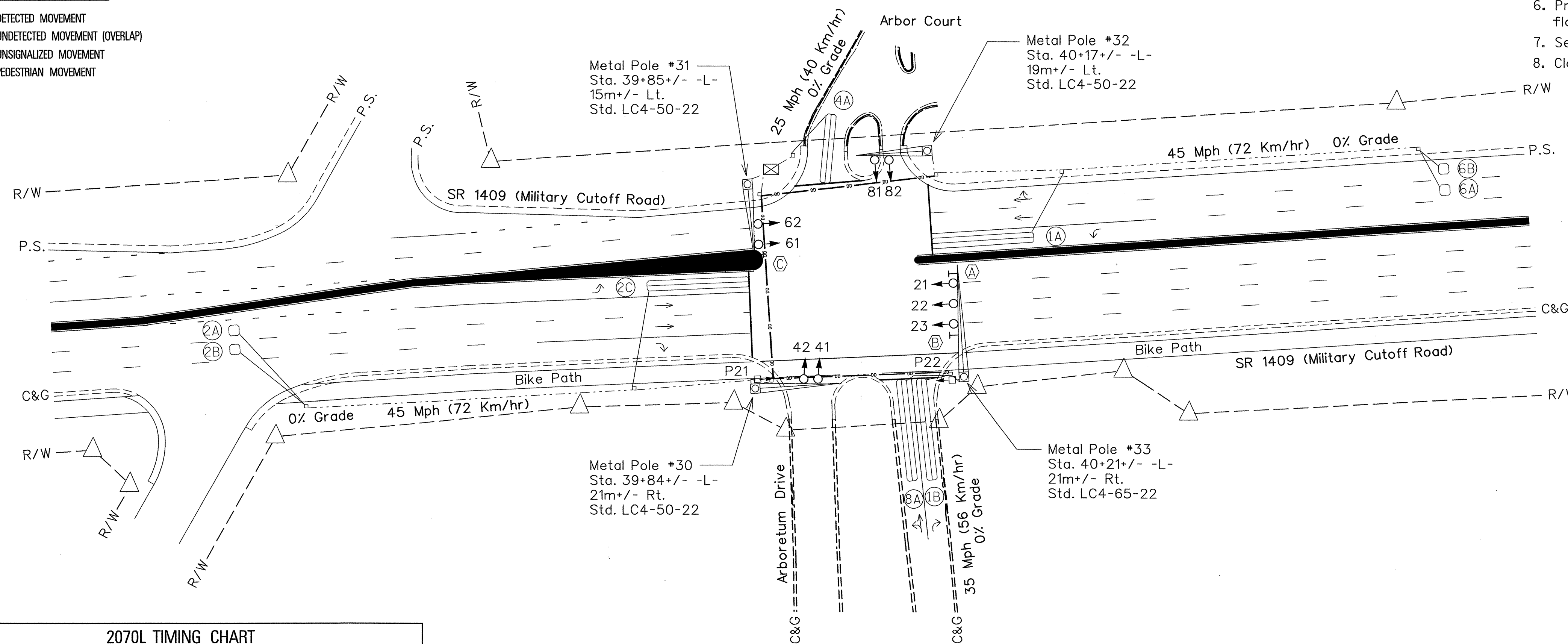
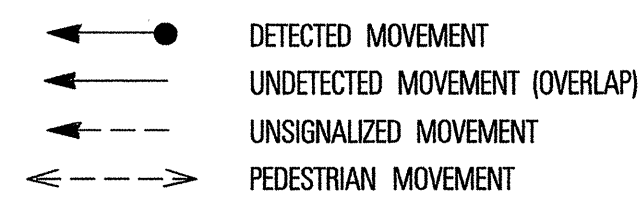
Pay Item	Meters
Signal Cable	250
Messenger Cable	0
Lead-in Cable	830

3 Phase
(Fully Actuated)
(Military Cutoff Road Closed Loop System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Omit phase 1 during phase 2 on.
- Program controller to clear from phase 2+6 to phase 1+6 by progressing through phase 4+8 (See Electrical Details).
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to count down the flashing "DON'T WALK" time only.
- Set all detector units to presence mode.
- Closed Loop System Data: Controller Asset #0794.

PHASING DIAGRAM DETECTION LEGEND



FEATURE	2070L TIMING CHART				
	1	2	4	6	8
Min Green 1 *	7	12	7	12	7
Extension 1 *	1.0	6.0	2.0	6.0	1.0
Max Green 1 *	15	100	25	100	25
Yellow Clearance	4.0	4.7	4.0	4.7	4.0
Red Clearance	2.5	2.0	3.0	2.0	3.0
Walk 1 *	-	4	-	-	-
Don't Walk 1	-	22	-	-	-
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

* 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.

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
1B *	1.8x18	2-4-2	0	Y	1	Y	Y	-	-	-	15	Y
2A	1.8x1.8	5	90	Y	2	Y	Y	-	-	-	-	Y
2B	1.8x1.8	5	90	Y	2	Y	Y	-	-	-	-	Y
2C	1.8x18	2-4-2	0	Y	2	Y	Y	-	-	-	3	Y
4A	1.8x12	2-4-2	0	Y	4	Y	Y	-	-	-	10	Y
6A	1.8x1.8	5	90	Y	6	Y	Y	-	-	-	-	Y
6B	1.8x1.8	5	90	Y	6	Y	Y	-	-	-	-	Y
8A *	1.8x18	2-4-2	0	Y	8	Y	Y	-	-	-	-	Y

* Preformed loop



New Installation

SEPI ENGINEERING GROUP
 2300 Rexwoods Drive
 Suite 370
 Raleigh, NC 27607
 Tel: 919-789-9977 Fax: 789-9591

Prepared for: **SR 1409 (Military Cutoff Road) at Arboretum Drive and Arbor Court**

Division 3 New Hanover County Wilmington

PLAN DATE: Sept 2003 REVIEWED BY: L. M. Eddins

PREPARED BY: H. M. Surti REVIEWED BY: S. S. Asefina

REVISIONS: _____ INIT. DATE

SCALE: 1"=50'

SIGNATURE: *[Signature]* DATE: 1/7/09

SIG. INVENTORY NO. 03-0794