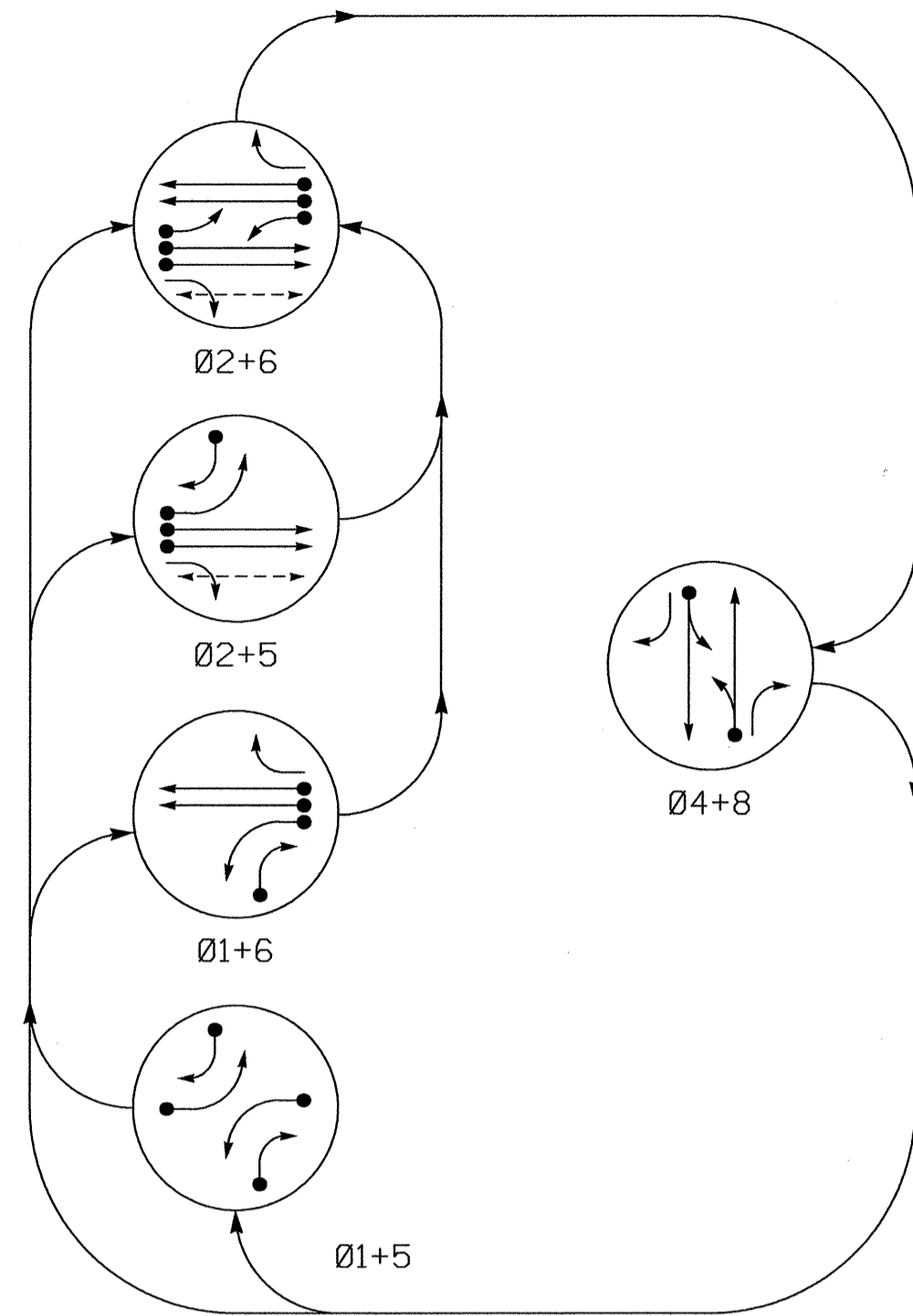
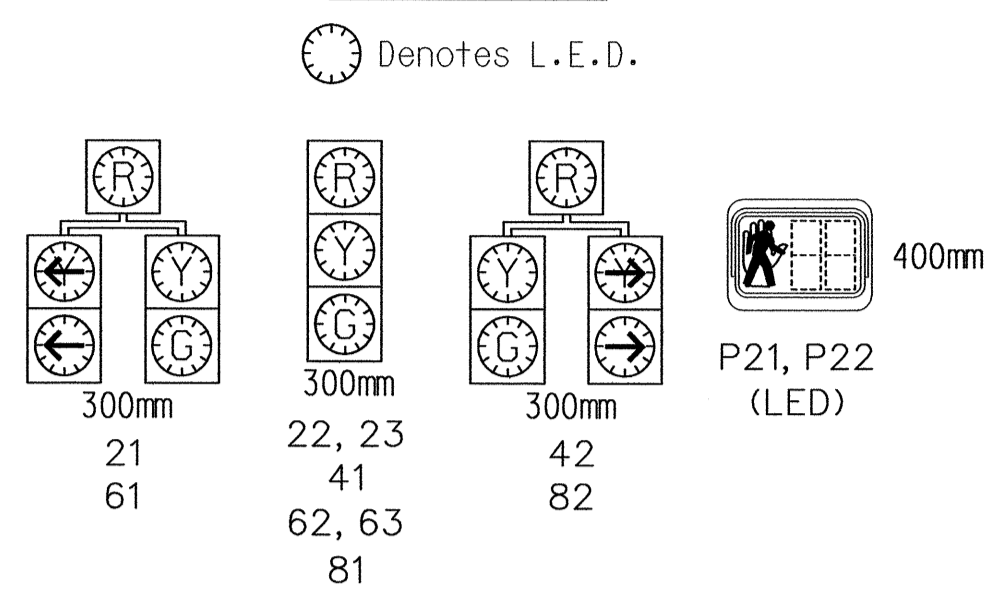


**PHASING DIAGRAM**



SIGNAL FACE	PHASE					FLASH
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	
21	R	R	G	G	R	Y
22, 23	R	R	G	G	R	Y
41	R	R	R	R	G	R
42	R	R	R	R	G	R
61	R	G	R	G	R	Y
62, 63	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK

**SIGNAL FACE I.D.**



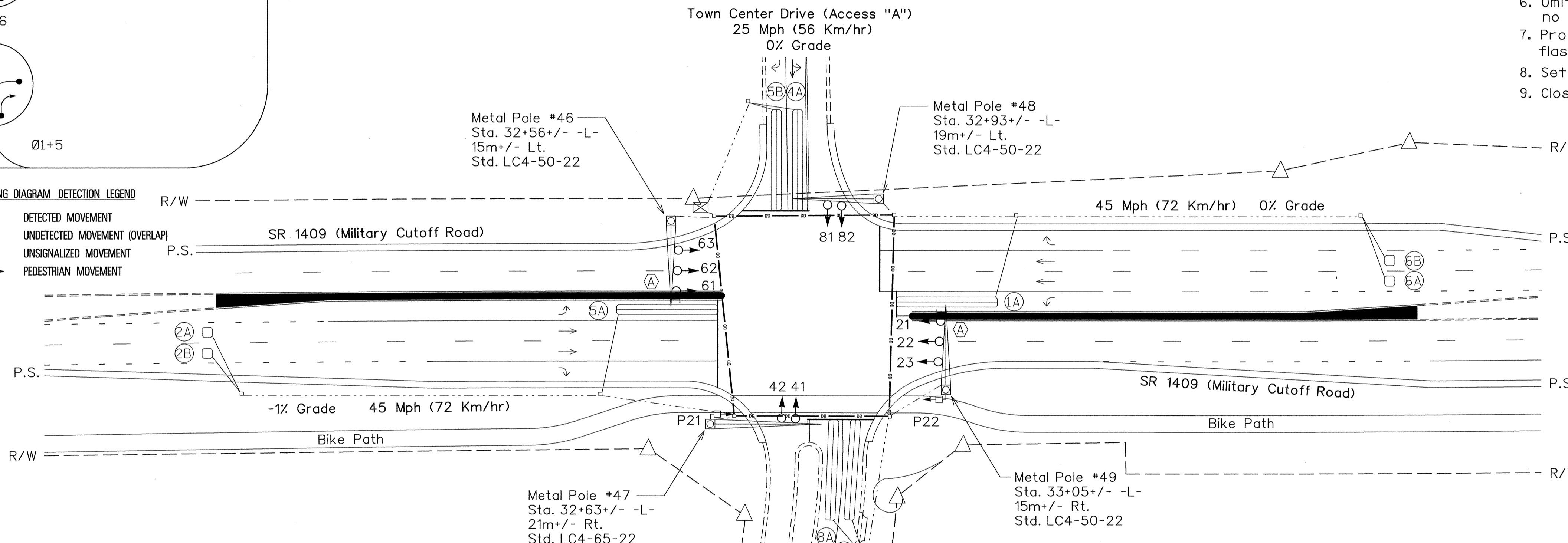
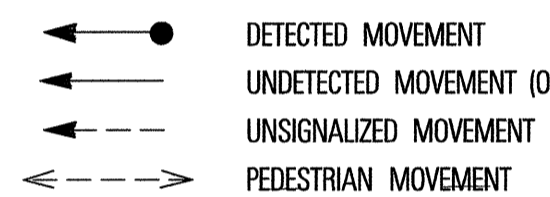
Pay Item	Meters
Signal Cable	270
Messenger Cable	0
Lead-in Cable	940

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

**NOTES**

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Omit phase 1 during phase 2 on.
3. Omit phase 5 during phase 6 on.
4. Program controller to clear from phase 2+6 to phase 1 and/or 5 by progressing through phase 4+8 (See Electrical Details).
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to count down the flashing "DON'T WALK" time only.
8. Set all detector units to presence mode.
9. Closed Loop System Data: Controller Asset #0956.

**PHASING DIAGRAM DETECTION LEGEND**

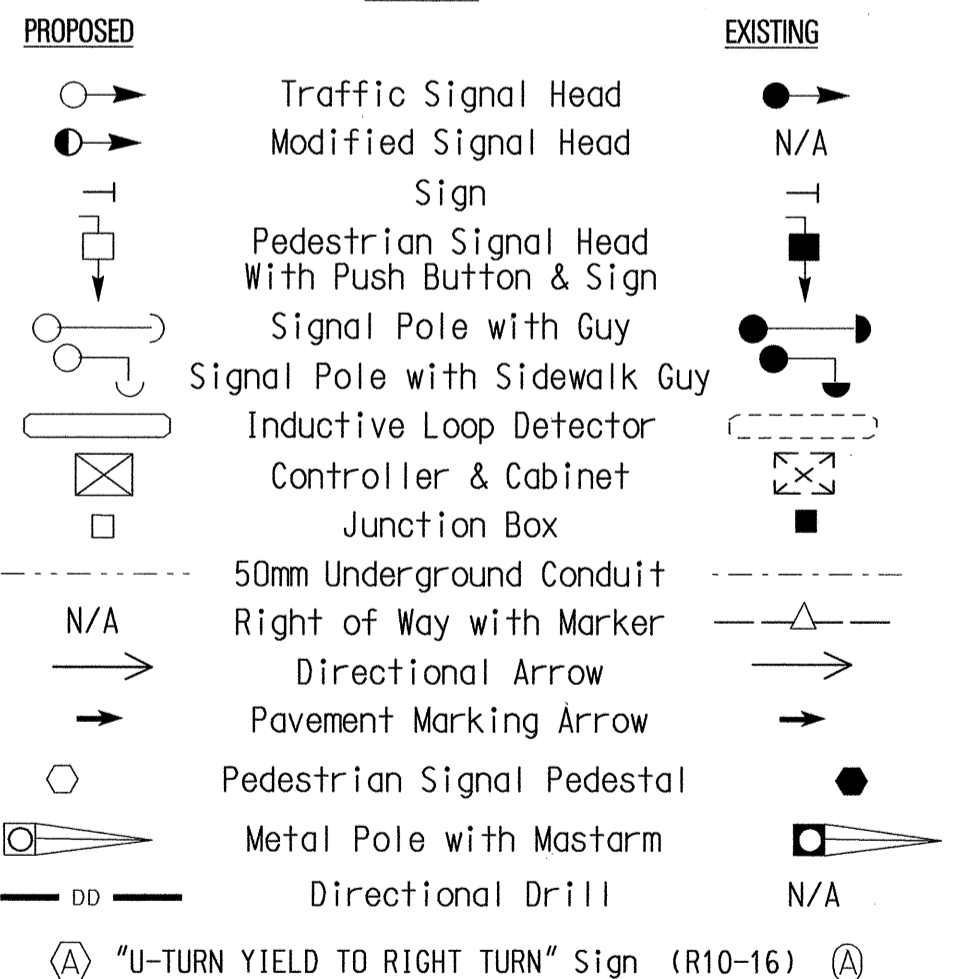


FEATURE	2070L TIMING CHART						
	PHASE						
Min Green 1*	7	12	7	7	12	7	
Extension 1*	1.0	6.0	1.0	1.0	6.0	1.0	
Max Green 1*	15	100	25	20	100	25	
Yellow Clearance	4.0	4.7	4.0	4.0	4.7	4.0	
Red Clearance	2.0	1.5	2.5	2.0	1.5	2.5	
Walk 1*	-	4	-	-	-	-	
Don't Walk 1	-	17	-	-	-	-	
Seconds Per Actuation*	-	1.5	-	-	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.

2070L LOOP & DETECTOR INSTALLATION											
LOOP	SIZE (M)	TURNS	DISTANCE FROM STOPBAR (M)	NEW LOOP	DETECTOR PROGRAMMING						
					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
4A	1.8X18	2-4-2	0	Y	4	Y	Y	-	-	3	Y
5A	1.8X18	2-4-2	0	Y	5	Y	Y	-	-	15	Y
5B	1.8X18	2-4-2	0	Y	2	Y	Y	-	-	3	Y
6A	1.8X1.8	5	90	Y	5	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

**LEGEND**



**New Installation**

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

SR 1409 (Military Cutoff Road)			
at			
Caymon Court and Town Center Drive (Access "A")			
Division 3	New Hanover County	Wilmington	
PLAN DATE: Dec. 2003	REVIEWED BY: L. M. Eddins		
PREPARED BY: H. M. Surti	REVIEWED BY: S. S. Asefnia		
REVISIONS	INIT.	DATE	

SEAL

SIGNATURE: *S. S. Asefnia* DATE: 1/30/04

5998485001TIME:09:58:59  
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 5998485001USER:SEPCAD  
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