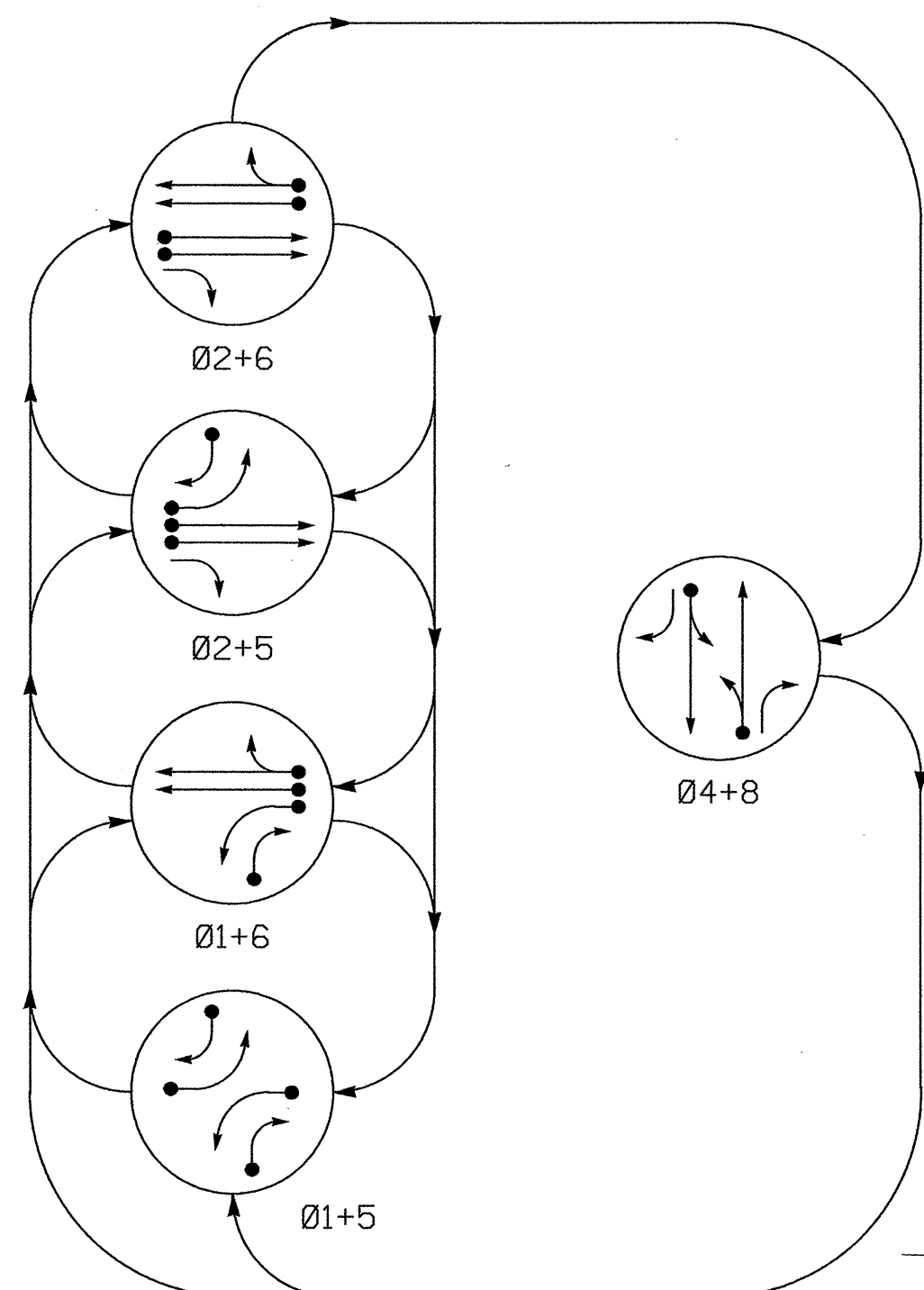


PHASING DIAGRAM

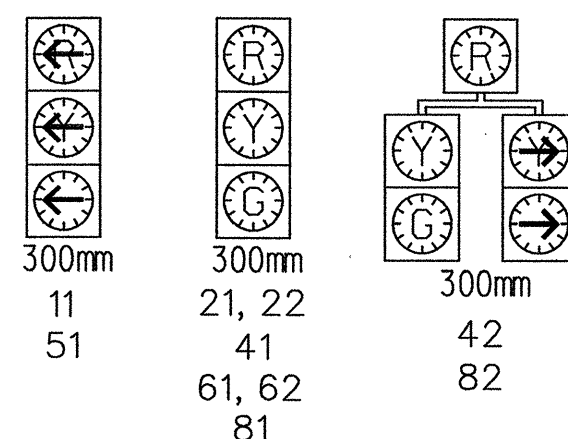


PHASING DIAGRAM DETECTION LEGEND
 ● DETECTED MOVEMENT
 ◄ UNDETECTED MOVEMENT (OVERLAP)
 - UNSIGNALIZED MOVEMENT
 - PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	F L
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	Y
41	R	R	R	R	G	R
42	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	R	R	R	R	G	R

SIGNAL FACE I.D.

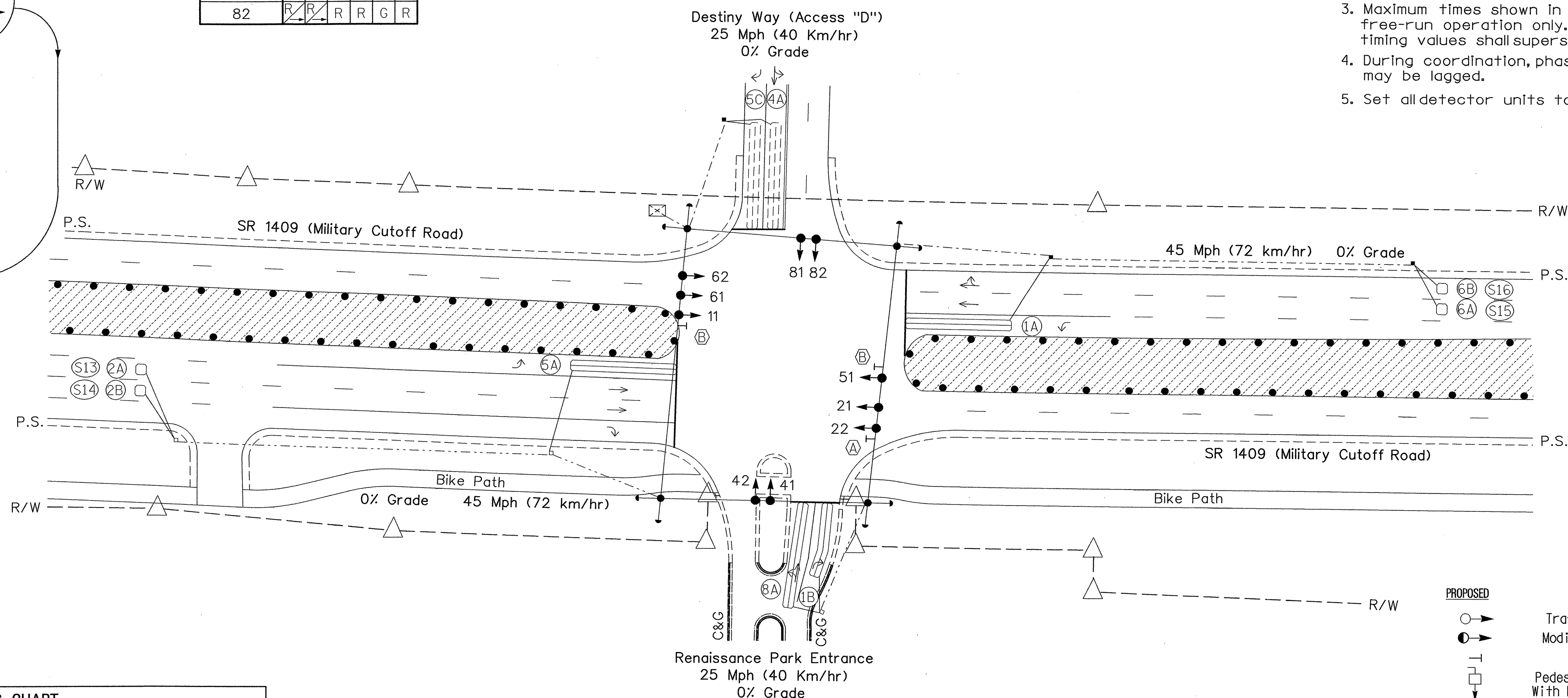
⌚ Denotes L.E.D.



5 Phase
 (Fully Actuated)
 (Time - Based Coordination)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Reposition existing signalheads numbered 11, 21, 22, 51, 61, and 62.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signalsystem timing values shall supersede these values.
- During coordination, phase 1 and/or phase 5 may be lagged.
- Set all detector units to presence mode.

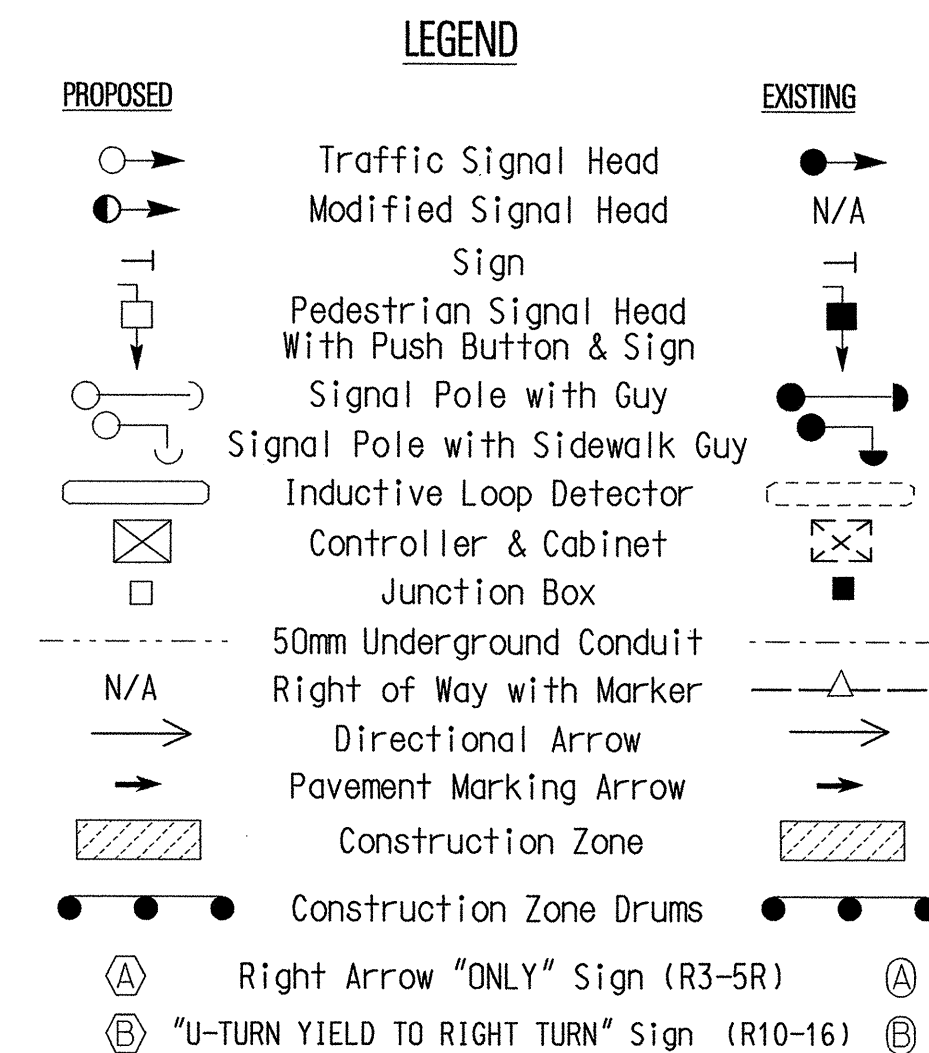


FEATURE	2070L TIMING CHART						
	1	2	4	5	6	8	
Min Green 1 *	7	12	7	7	12	7	
Extension 1 *	1.0	6.0	1.0	1.0	6.0	1.0	
Max Green 1 *	15	100	25	15	100	25	
Yellow Clearance	4.0	4.7	4.0	4.0	4.7	4.0	
Red Clearance	3.0	1.5	3.5	3.0	1.5	3.5	
Walk 1 *	-	-	-	-	-	-	
Don't Walk 1	-	-	-	-	-	-	
Seconds Per Actuation *	-	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.

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	1.8X1.8	2-4-2	0	Y	1	Y	Y	-	-	-	-	-
1B	1.8X1.2	2-4-2	0	Y	1	Y	Y	-	-	-	15	-
2A-S13	1.8X1.8	5	90	Y	2	Y	Y	-	Y	-	-	-
2B-S14	1.8X1.8	5	90	Y	2	Y	Y	-	Y	-	-	-
4A	1.8X1.8	2-4-2	0	-	4	Y	Y	-	-	-	3	-
5A	1.8X1.8	2-4-2	0	Y	5	Y	Y	-	-	-	-	-
5C	1.8X1.8	2-4-2	0	-	5	Y	Y	-	-	-	15	-
6A-S15	1.8X1.8	5	90	-	6	Y	Y	-	Y	-	-	-
6B-S16	1.8X1.8	5	90	Y	6	Y	Y	-	Y	-	-	-
8A	1.8X1.8	2-4-2	0	Y	8	Y	Y	-	-	-	-	-

PLAN QUANTITIES	
Pay Item	Meters
Signal Cable	0
Messenger Cable	0
Lead-in Cable	1010



Signal Upgrade Temporary Design 2 Construction Phase II

SR 1409 (Military Cutoff Road) at Renaissance Park Entrance and Destiny Way (Access "D")

Division 3 New Hanover County Wilmington

Prepared for:

122 N. McDowell St., Raleigh, NC 27603

SCALE: 1" = 50'

PREPARED BY: H. M. Surti REVIEWED BY: L. M. Eddins

REVISIONS: _____ INIT.: _____ DATE: _____

SEAL:

SIGNATURE: DATE: 1/7/09

SIG. INVENTORY NO. 03-095212

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