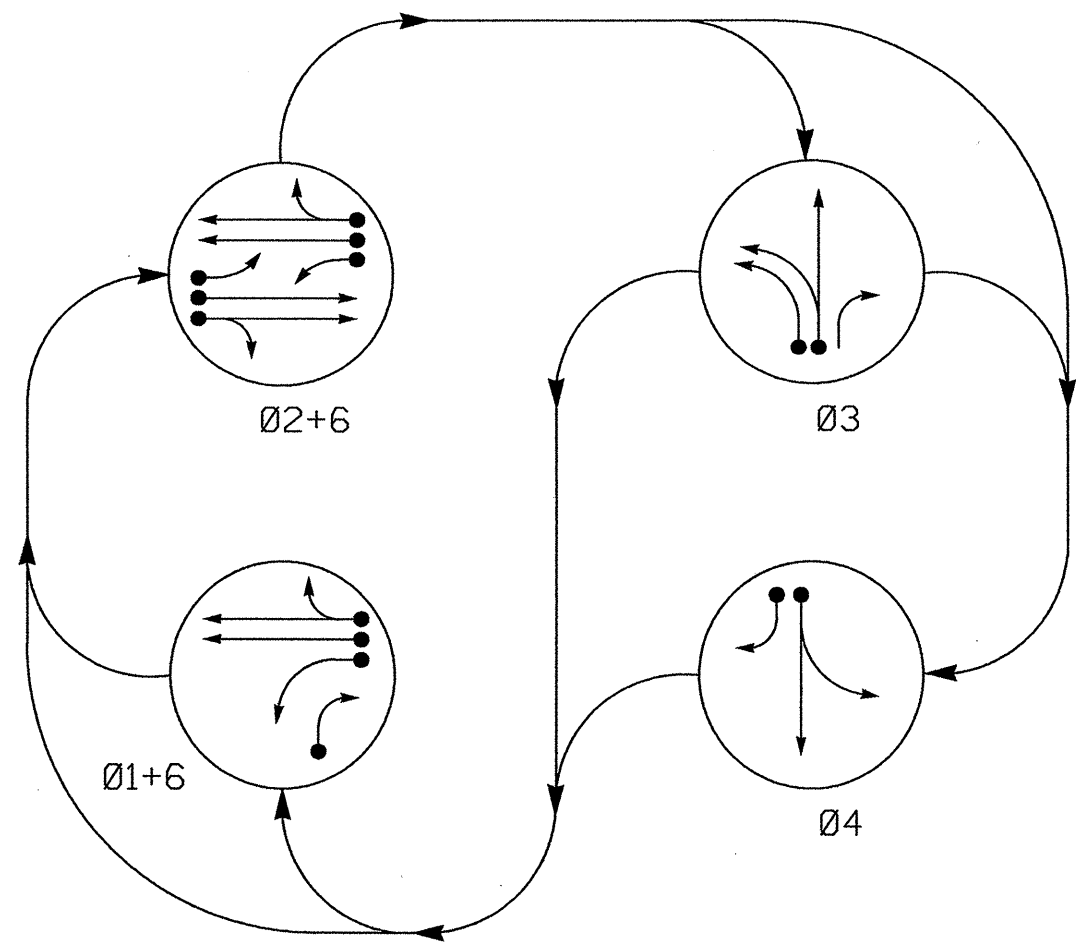


PHASING DIAGRAM



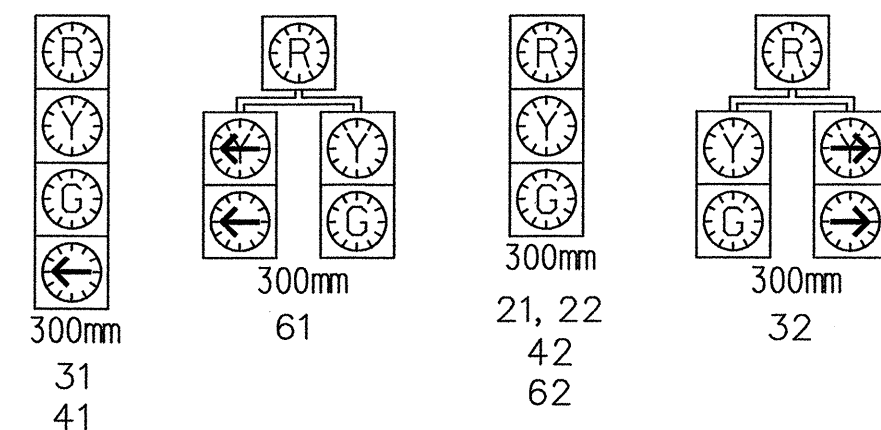
PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE				FLASH
	Ø 1 + 6	Ø 2 + 6	Ø 3	Ø 4	
21, 22	R	G	R	R	Y
31	R	R	G	R	R
32	R	R	G	R	R
41	R	R	R	G	R
42	R	R	R	G	R
61	G	G	R	R	Y
62	G	G	R	R	Y

SIGNAL FACE I.D.
 Denotes L.E.D.



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
1A	1.8X18	2-4-2	0	Y	1	Y	Y	-	-	15	Y
1B	1.8X18	EXISTING	+1.5	-	1	Y	Y	-	-	3	Y
2A	1.8X18	EXISTING	90	-	2	Y	Y	-	-	-	Y
2B	1.8X18	EXISTING	90	-	2	Y	Y	-	-	-	Y
2C	1.8X18	2-4-2	0	Y	2	Y	Y	-	-	3	Y
3A	1.8X18	EXISTING	+1.5	-	3	Y	Y	-	-	3	Y
3B	1.8X18	EXISTING	+1.5	-	3	Y	Y	-	-	-	Y
4A	1.8X9	2-4-2	0	Y	4	Y	Y	-	-	3	Y
4B	1.8X9	2-4-2	0	Y	4	Y	Y	-	-	15	Y
6A-S3	1.8X1.8	5	90	Y	6	Y	Y	-	Y	-	Y
6B-S4	1.8X1.8	5	90	Y	6	Y	Y	-	Y	-	Y

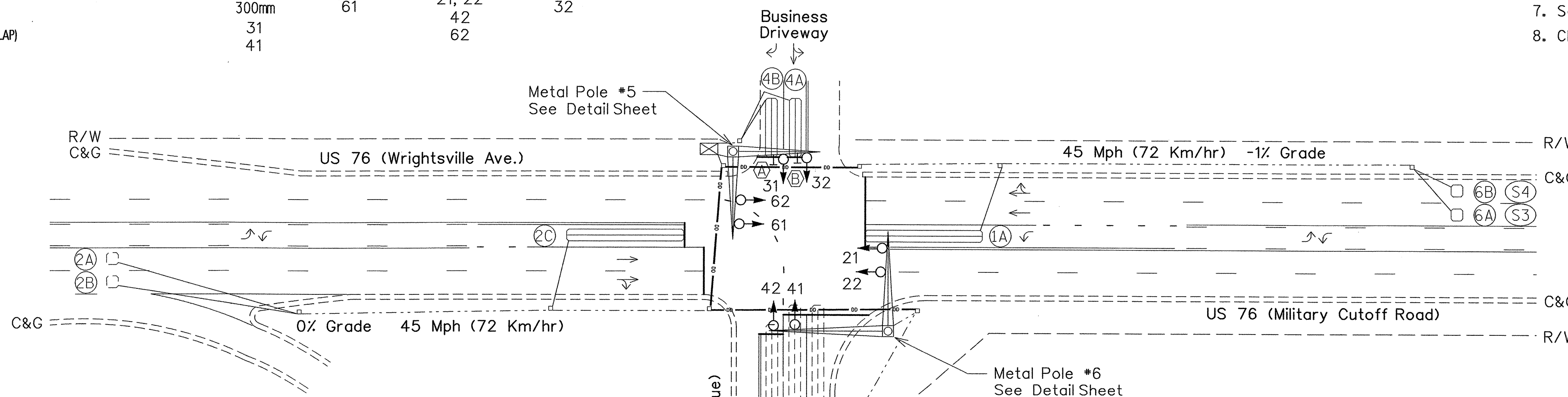
4 Phase
 (Fully Actuated)
 (Military Cutoff Road Closed Loop System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Pavement markings are existing unless otherwise shown.
3. Omit phase 1 during phase 2 on.
4. Program controller to clear from phase 2+6 to phase 1+6 by progressing through phase 4 (See Electrical Details).
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signalsystem timing values shall supersede these values.
6. During coordination, the order of phase 3 and phase 4 may be reversed.
7. Set all detector units to presence mode.
8. Closed Loop System Data: Controller Asset #0782

PLAN QUANTITIES

Pay Item	Meters
Signal Cable	240
Messenger Cable	0
Lead-in Cable	650

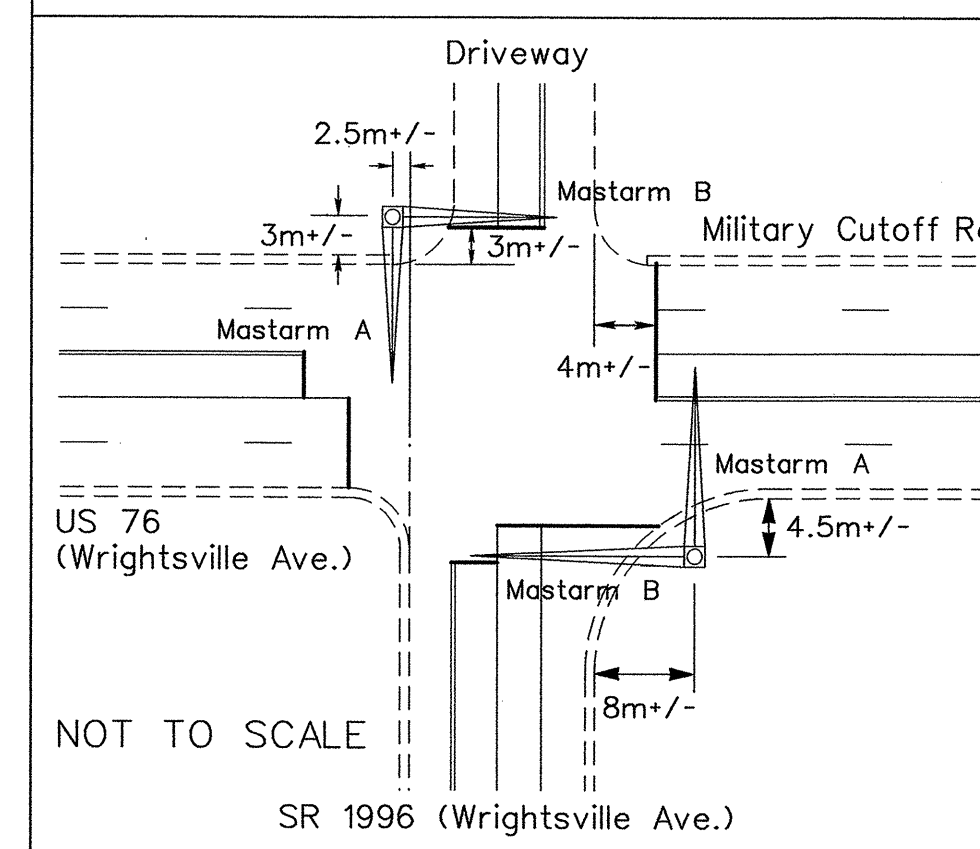


2070L TIMING CHART

FEATURE	PHASE				
	1	2	3	4	6
Min Green 1 *	7	12	7	7	12
Extension 1 *	1.0	6.0	1.0	2.0	6.0
Max Green 1 *	15	100	25	25	100
Yellow Clearance	4.0	4.7	4.0	4.0	4.7
Red Clearance	2.0	1.0	1.5	1.5	1.0
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 *	-	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	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.

METAL POLE & STOPBAR LOCATIONS



LEGEND

PROPOSED	EXISTING

Signal Upgrade

Prepared for:
 US 76 (Wrightsville Ave./ Military Cutoff Road)
 at
 SR 1996 (Wrightsville Ave.) and Business Driveway
 Division 3
 New Hanover County
 Wilmington

PLAN DATE: Aug. 2003 REVIEWED BY: L. M. Eddins
 PREPARED BY: H. M. Surti REVIEWED BY: S. S. Asefina

REVISIONS: INIT. DATE

SCALE: 1:500

12.11.03

SIG. INVENTORY NO. 03-0782

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*****STJLME*****
 *****DOW*****
 *****USER*****