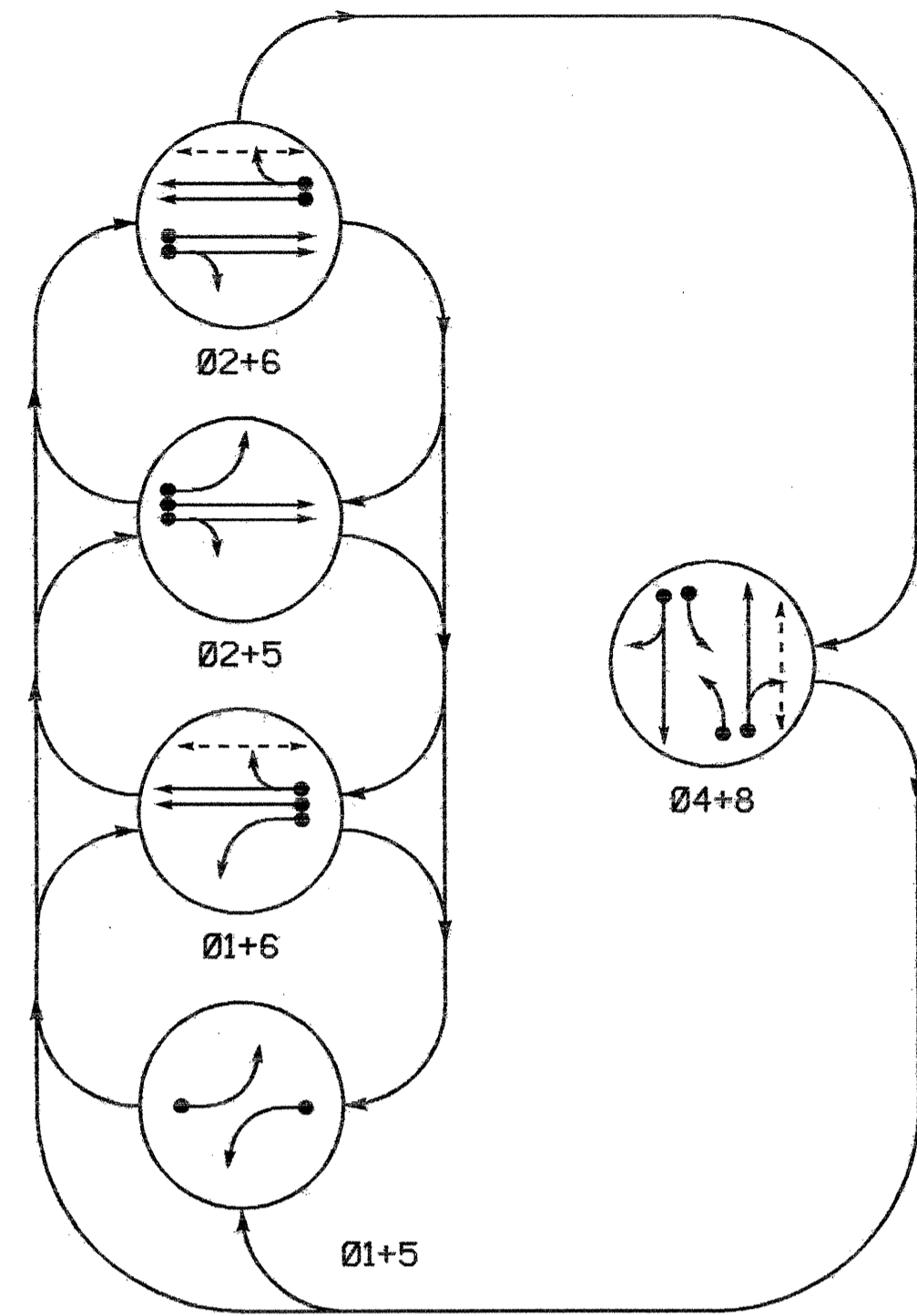


PHASING DIAGRAM



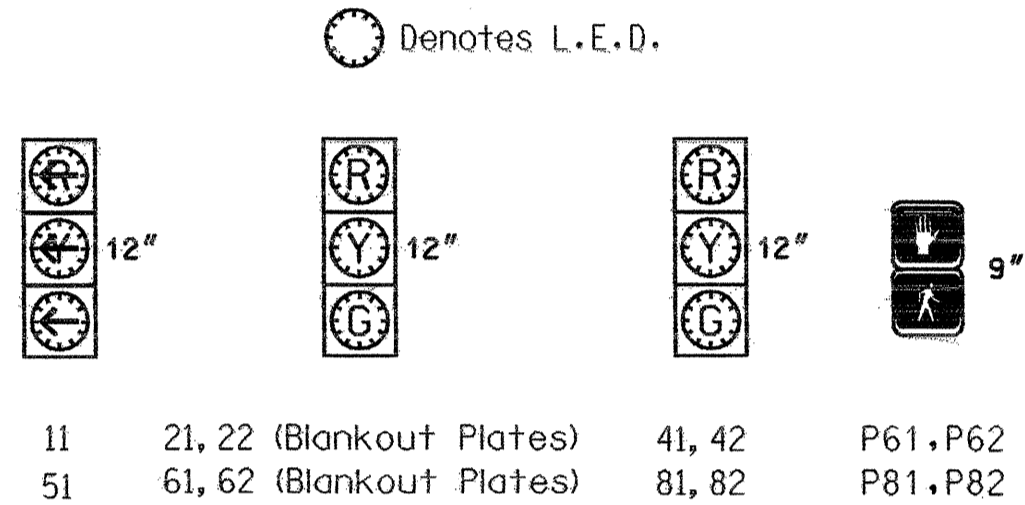
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	F
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	Y
41, 42	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R
P61, P62	DW	W	DW	W	DW	DRK
P81, P82	DW	DW	DW	DW	W	DRK

SIGNAL FACE I.D.



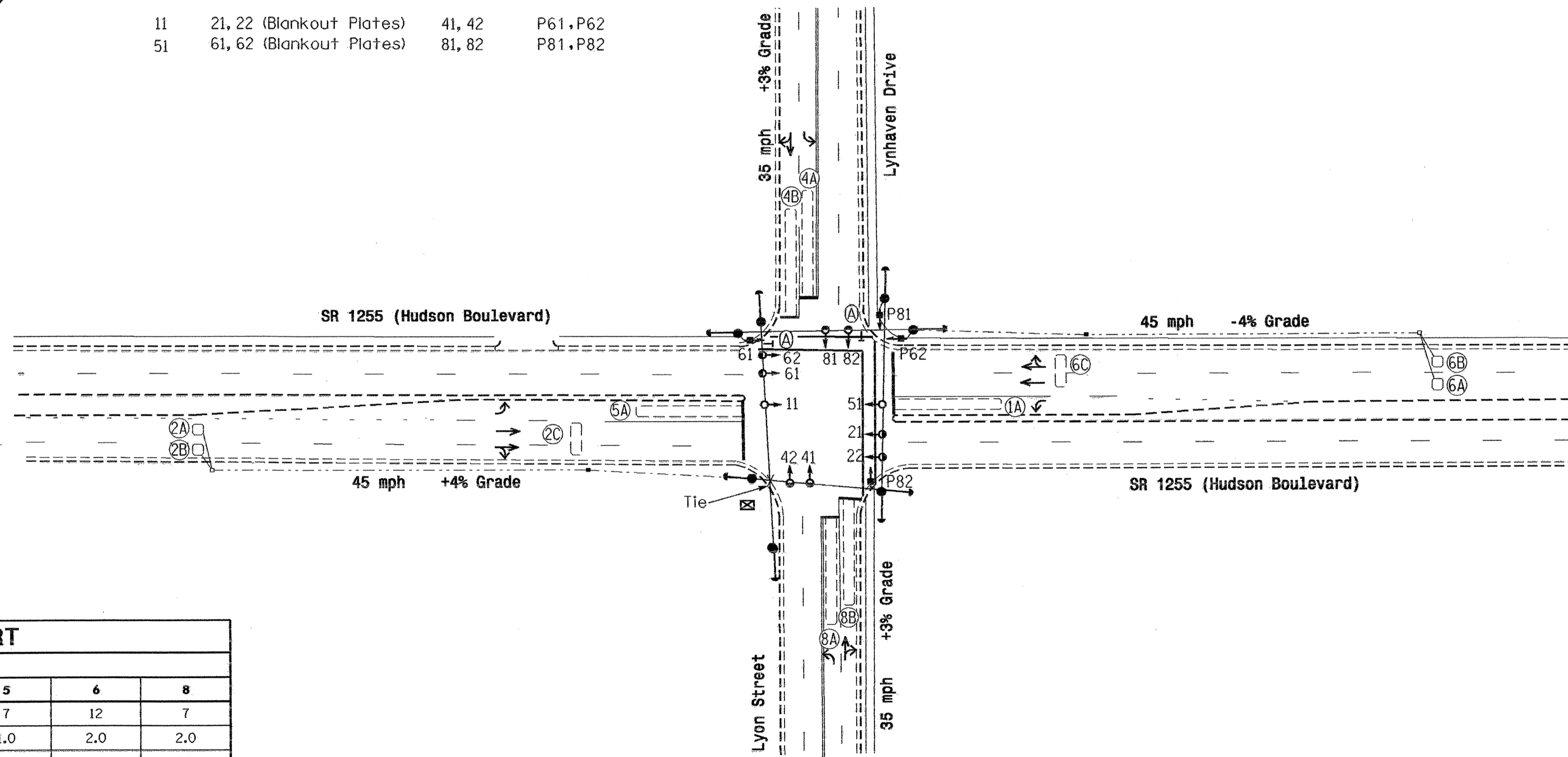
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	DETECTOR PROGRAMMING								
				PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD	
1A	EXISTING	EXISTING	EXISTING	-	1	Y	Y	-	-	-	3	Y
2A	6 X 6	4	300	Y	2	Y	Y	-	-	1.8	-	Y
2B	6 X 6	4	300	Y	2	Y	Y	-	-	1.8	-	Y
2C	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	Y
4A	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	-	-	Y
4B	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	-	10	Y
5A	EXISTING	EXISTING	EXISTING	-	5	Y	Y	-	-	-	3	Y
6A	6 X 6	6	300	Y	6	Y	Y	-	-	1.8	-	Y
6B	6 X 6	6	300	Y	6	Y	Y	-	-	1.8	-	Y
6C	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	Y
8A	EXISTING	EXISTING	EXISTING	-	8	Y	Y	-	-	-	-	Y
8B	EXISTING	EXISTING	EXISTING	-	8	Y	Y	-	-	-	10	Y

5 Phase Fully Actuated Gastonia City System

NOTES

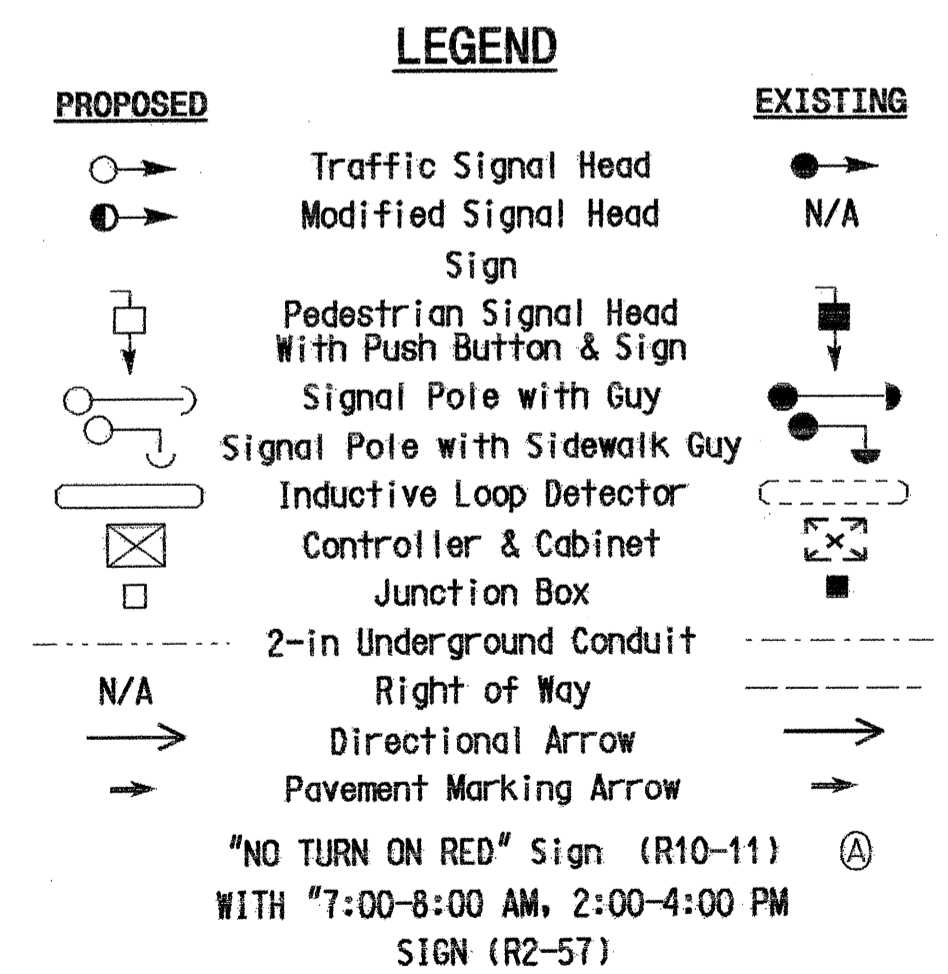
- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Phase 1 or phase 5 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Pavement markings are existing.
- Loops 2A, 2B, 6A, and 6B must be wired separately to serve as both presence loops and system loops.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset #0181.



2070L TIMING CHART

FEATURE	PHASE						
	1	2	4	5	6	8	
Min Green 1 *	7	12	7	7	12	7	
Extension 1 *	1.0	2.0	2.0	1.0	2.0	2.0	
Max Green 1 *	15	45	30	15	45	30	
Yellow Clearance	4.0	4.7	4.0	4.0	4.7	4.0	
Red Clearance	1.5	1.5	1.8	1.4	1.5	1.8	
Walk 1 *	-	-	-	-	4.0	4.0	
Don't Walk 1	-	-	-	-	12	18	
Seconds Per Actuation *	-	-	-	-	-	-	
Max Variable Initial *	-	-	-	-	-	-	
Time Before Reduction *	-	-	-	-	-	-	
Time To Reduce *	-	-	-	-	-	-	
Minimum Gap	-	-	-	-	-	-	
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.



Signal Upgrade

Prepared in the Office of:  
  
 122 N. McDowell St., Raleigh, NC 27603

SR 1255 (Hudson Blvd.)  
 at  
 Lynhaven Dr. / Lyon St.

Division 12 Gaston County Gastonia  
 PLAN DATE: January 2005 REVIEWED BY:  
 PREPARED BY: C. Pierce REVIEWED BY: D.Y. Ishak  
 REVISIONS: INIT. DATE

SCALE: 1" = 50'

SIGNATURE: DATE: 7 February 05  
 SIG. INVENTORY NO. 12-0181