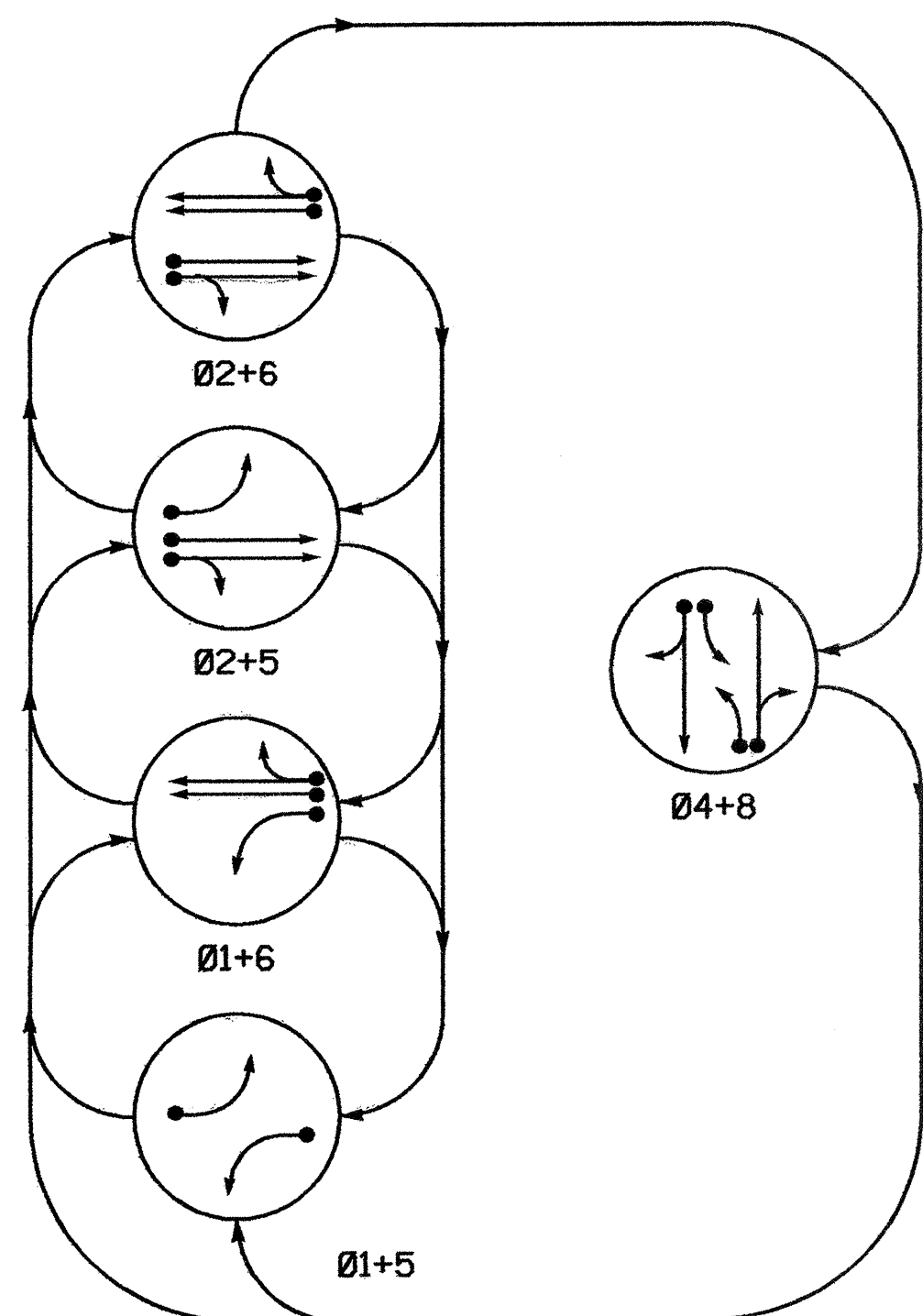


PHASING DIAGRAM

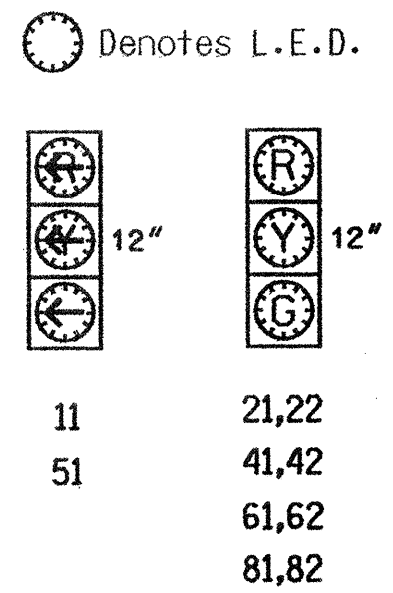


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE				
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+8
11	←	←	←	←	←
21,22	R	R	G	G	R
41,42	R	R	R	R	G
51	←	←	←	←	←
61,62	R	G	R	G	R
81,82	R	R	R	R	G

SIGNAL FACE I.D.



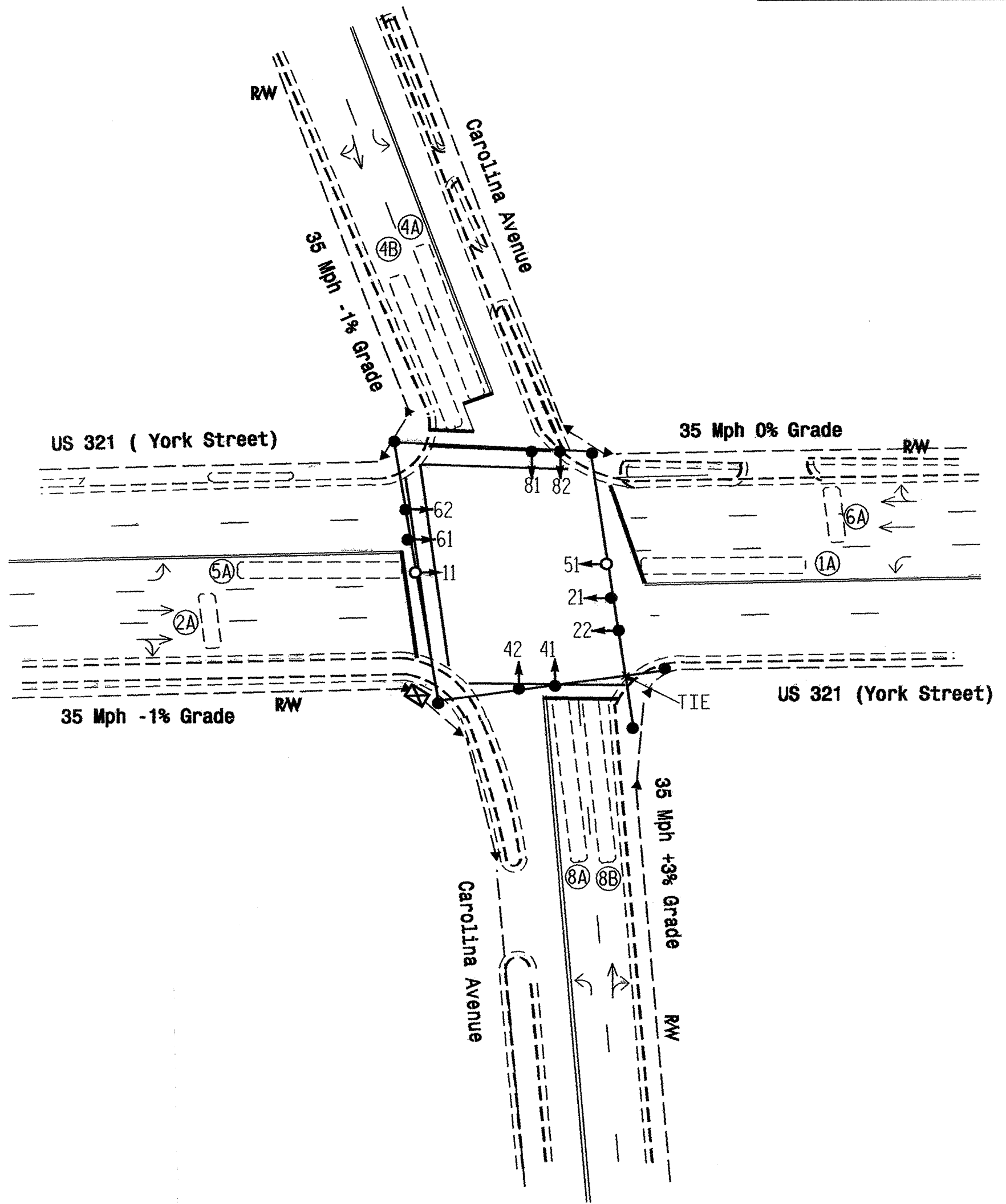
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	6X60	Existing	Existing	-	1	Y	Y	-	-	-	3	Y
2A	6X20	Existing	Existing	-	2	Y	Y	-	-	-	-	Y
4A	6X60	Existing	Existing	-	4	Y	Y	-	-	-	-	Y
4B	6X60	Existing	Existing	-	4	Y	Y	-	-	-	10	Y
5A	6X60	Existing	Existing	-	5	Y	Y	-	-	-	3	Y
6A	6X20	Existing	Existing	-	6	Y	Y	-	-	-	-	Y
8A	6X60	Existing	Existing	-	8	Y	Y	-	-	-	-	Y
8B	6X60	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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- During coordination, phase 1 or phase 5 may be lagged.
- Set all detector units to presence mode.
- Locate all underground utilities prior to pole drilling and conduit trenching.
- Remove existing "Left Turn Signal" sign(s)-(R10-10L) and/or existing "Right Turn Signal" sign(s)-(R10-10R).
- City system data:
Controller Asset #: 0066.

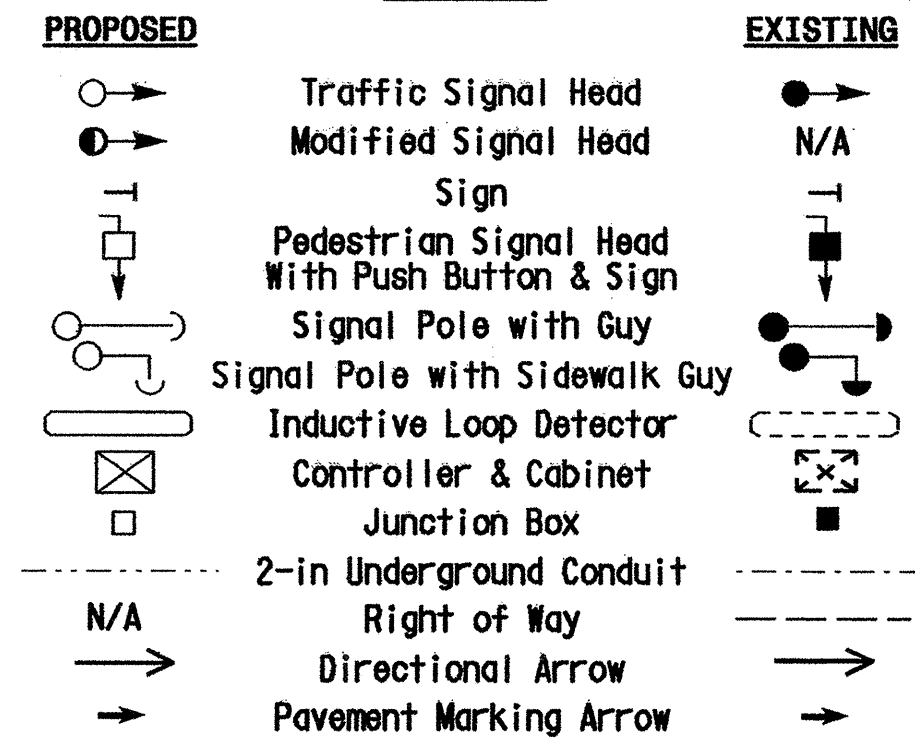


2070L TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	10	7	7	10	7
Extension 1 *	1.0	3.0	1.0	1.0	3.0	2.0
Max Green 1 *	20	45	25	20	45	25
Max Green 2 *	-	-	-	-	-	-
Yellow Clearance	4.0	4.0	4.0	4.0	4.0	4.0
Red Clearance	1.5	1.8	2.5	1.7	1.8	2.5
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
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.

LEGEND



Signal Upgrade

222 N. McDowell St., Raleigh, NC 27603

US 321 (York Street) at Carolina Avenue

Division 12 Gaston County Gastonia

PLAN DATE: October 2004 REVIEWED BY: C. Krauss

PREPARED BY: J. Mcarthy REVIEWED BY: D. SHAK

REVISIONS: _____

SCALE: 1" = 40'

SEAL

SIGNATURE: _____ DATE: _____

SIG. INVENTORY NO. 12-0066

12-MAY-2005 11:27
 ut:\pcc\res-un\hwork\sig\upg\sig.dgn
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