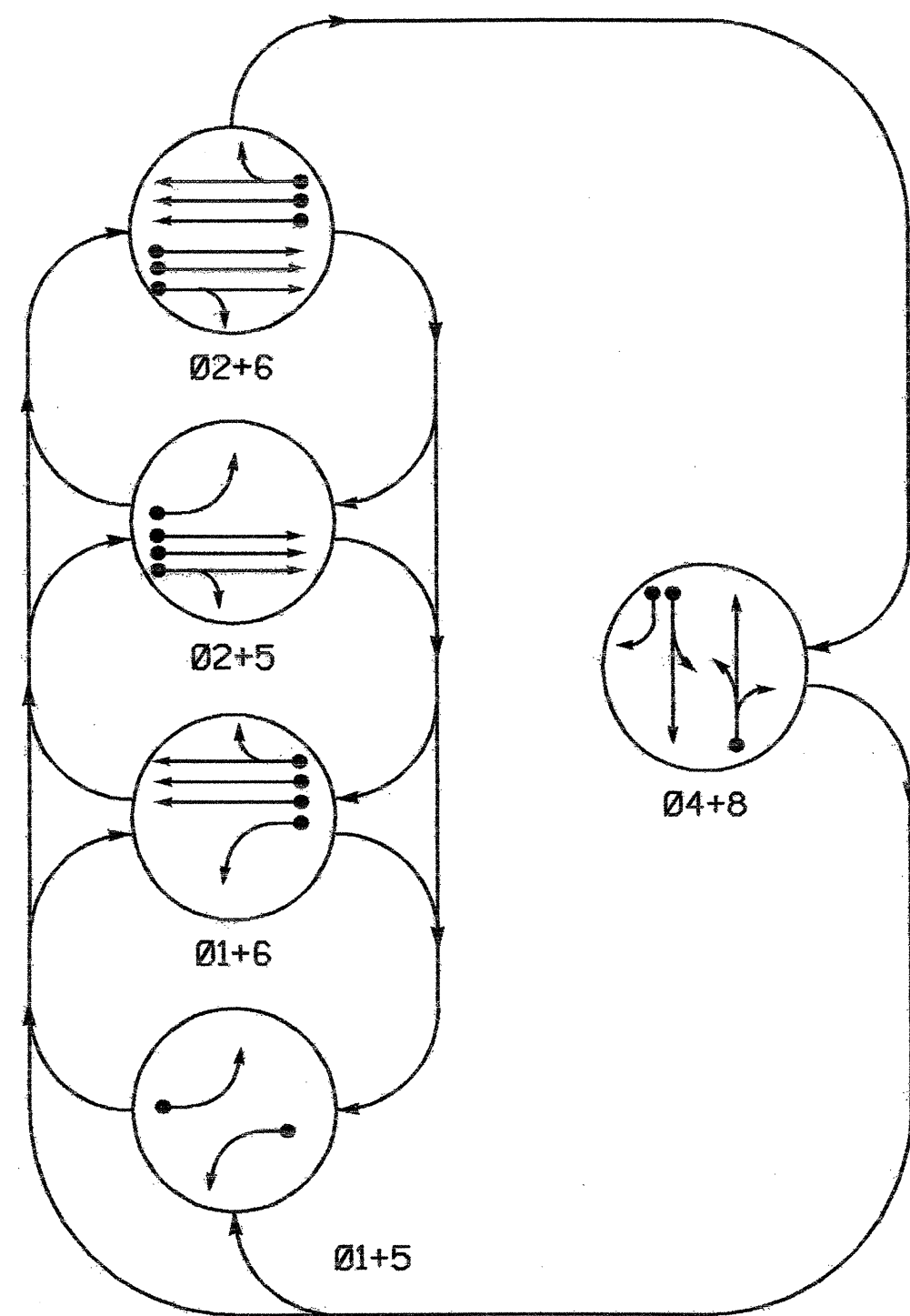


**PHASING DIAGRAM**



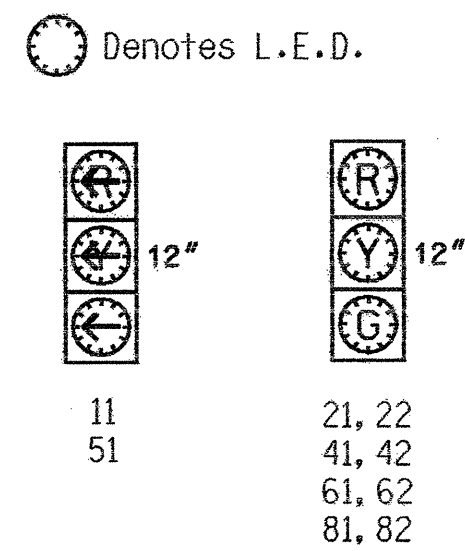
**PHASING DIAGRAM DETECTION LEGEND**

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ←--- PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE					FLASH
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	
11	---	---	RR	RR	RR	RR
21, 22	RR	RR	GG	GG	RR	YY
41, 42	RR	RR	RR	RR	GG	RR
51	---	---	RR	RR	RR	RR
61, 62	RR	GG	RR	GG	RR	YY
81, 82	RR	RR	RR	RR	GG	RR

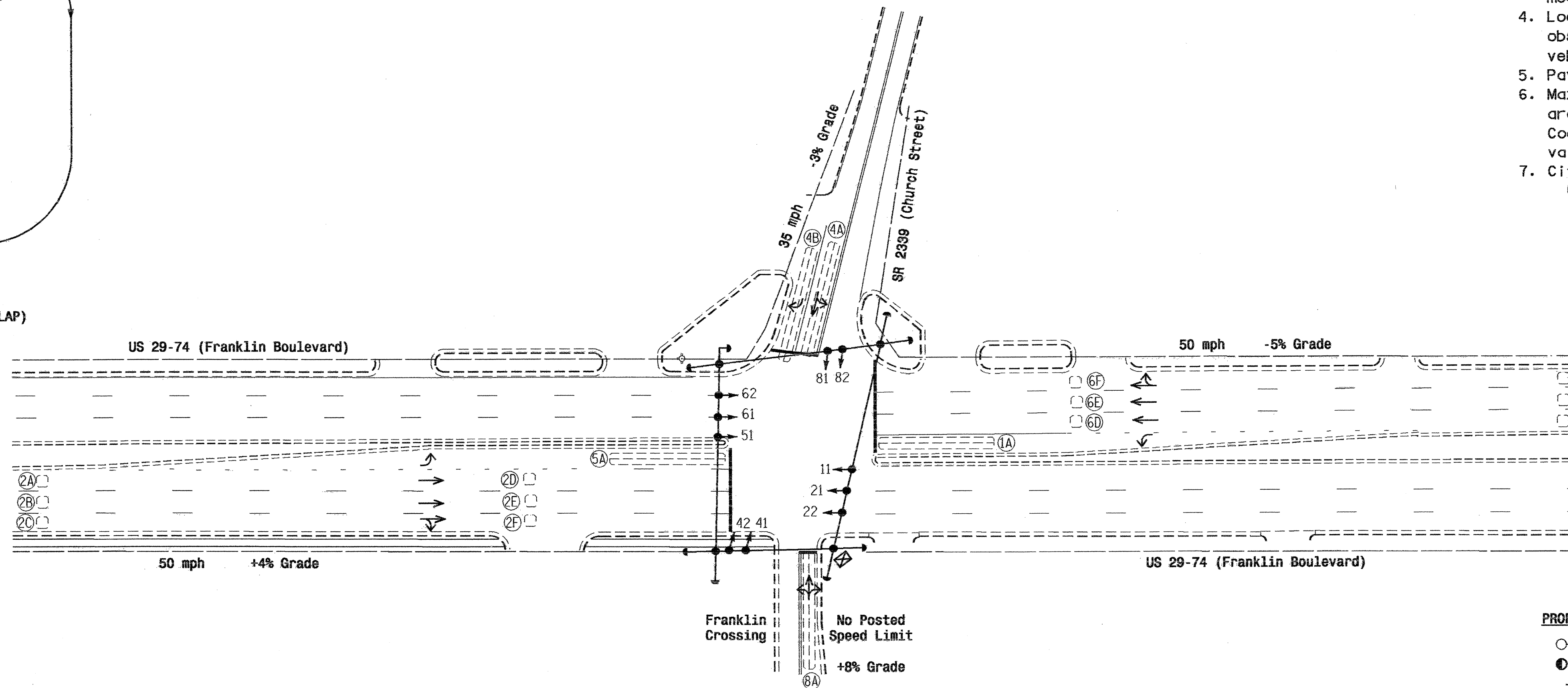
**SIGNAL FACE I.D.**



**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.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- City system data:  
Controller Asset #: 1563.



**2070L TIMING CHART**

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	14	7	7	14	7
Extension 1 *	1.0	2.0	1.0	1.0	2.0	3.0
Max Green 1 *	15	50	30	15	50	30
Yellow Clearance	4.0	4.7	4.0	4.0	4.7	4.0
Red Clearance	2.1	2.0	2.9	2.0	2.0	2.9
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.

**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	-	-	-	-	Y
2A,2B,2C	6x6	EXISTING	EXISTING	-	2	Y	Y	-	-	2	-	Y
2D,2E,2F	6x6	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	Y
4A	6x60	EXISTING	EXISTING	-	4	Y	Y	-	-	-	3	Y
4B	6x60	EXISTING	EXISTING	-	4	Y	Y	-	-	-	10	Y
5A	6x60	EXISTING	EXISTING	-	5	Y	Y	-	-	-	-	Y
6A,6B,6C	6x6	EXISTING	EXISTING	-	6	Y	Y	-	-	2	-	Y
6D,6E,6F	6x6	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	Y
8A	6x60	EXISTING	EXISTING	-	8	Y	Y	-	-	-	10	Y

**LEGEND**

- |  |  |  |  |
|--|--|--|--|
|  | PROPOSED Traffic Signal Head           |  | EXISTING Traffic Signal Head           |
|  | PROPOSED Modified Signal Head          |  | EXISTING Modified Signal Head          |
|  | PROPOSED Pedestrian Signal Head        |  | EXISTING Pedestrian Signal Head        |
|  | PROPOSED Signal Pole                   |  | EXISTING Signal Pole                   |
|  | PROPOSED Signal Pole with Sidewalk Guy |  | EXISTING Signal Pole with Sidewalk Guy |
|  | PROPOSED Inductive Loop Detector       |  | EXISTING Inductive Loop Detector       |
|  | PROPOSED Controller & Cabinet          |  | EXISTING Controller & Cabinet          |
|  | PROPOSED Junction Box                  |  | EXISTING Junction Box                  |
|  | PROPOSED 2-in Underground Conduit      |  | EXISTING 2-in Underground Conduit      |
|  | PROPOSED Right of Way                  |  | EXISTING Right of Way                  |
|  | PROPOSED Directional Arrow             |  | EXISTING Directional Arrow             |
|  | PROPOSED Pavement Marking Arrow        |  | EXISTING Pavement Marking Arrow        |
|  | PROPOSED Fire Hydrant                  |  | EXISTING Fire Hydrant                  |

**Signal Upgrade**

	Prepared in the Offices of: <b>US 29-74 (Franklin Boulevard)</b> at <b>SR 2339 (Church Street) / Franklin Crossing</b> Gastonia, NC		SEAL 
	Division 12 PLAN DATE: April 2004 PREPARED BY: Hambricht/Porter	Gaston County REVIEWED BY: REVIEWED BY:	
SCALE 0 40 1"=40'	REVISIONS: _____ INIT. DATE _____		