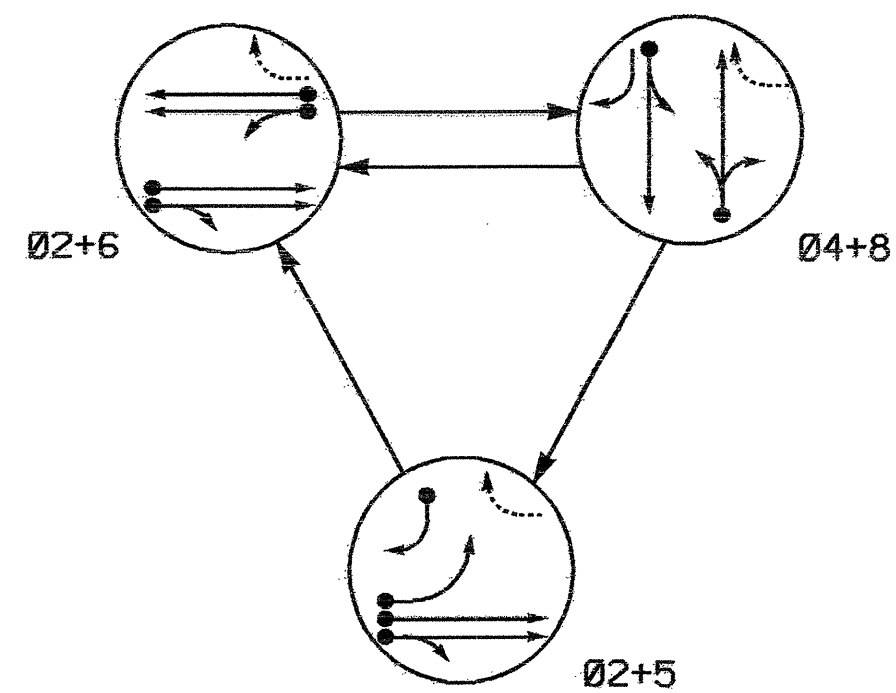


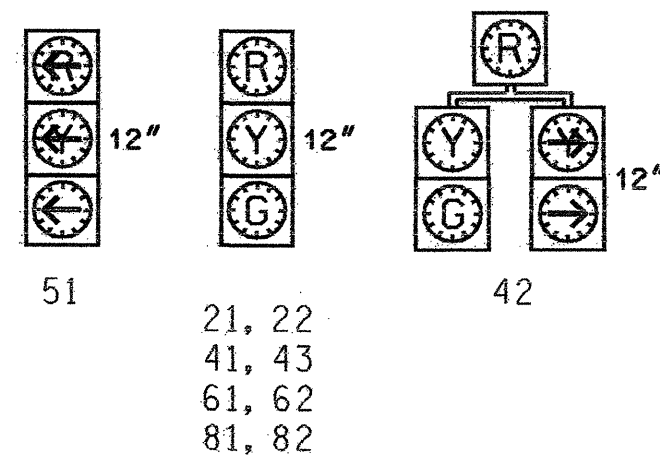
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	02+5	02+6	04+8	F LEAVE
21, 22	G	G	R	Y
41, 43	R	R	G	R
42	R	R	G	R
51	R	R	R	R
61, 62	R	G	R	Y
81, 82	R	R	G	R

SIGNAL FACE I.D.

Denotes L.E.D.

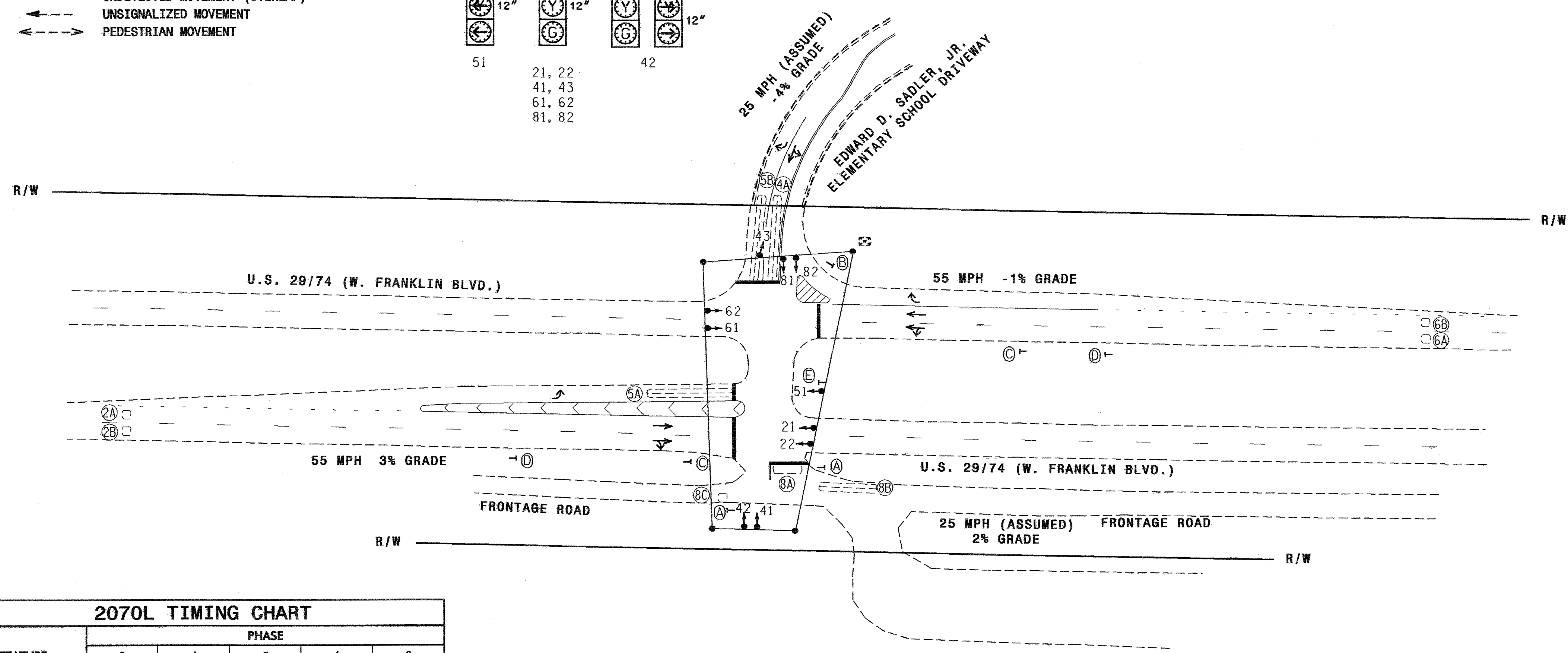
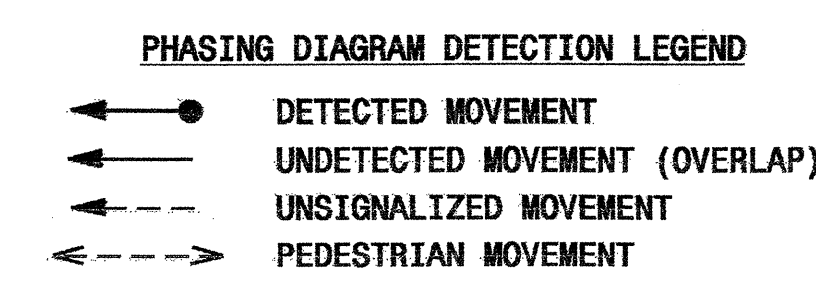


2070L LOOP & DETECTOR INSTALLATION											
INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	EXISTING	EXISTING	EXISTING	Y	2	Y	Y	-	-	-	-
2B	EXISTING	EXISTING	EXISTING	Y	2	Y	Y	-	-	-	-
4A	EXISTING	EXISTING	EXISTING	Y	4	Y	Y	-	-	-	-
5A	EXISTING	EXISTING	EXISTING	Y	5	Y	Y	-	-	-	-
5B	EXISTING	EXISTING	EXISTING	Y	5	Y	Y	-	-	15	-
6A	EXISTING	EXISTING	EXISTING	Y	6	Y	Y	-	-	-	-
6B	EXISTING	EXISTING	EXISTING	Y	6	Y	Y	-	-	-	-
8A	EXISTING	EXISTING	EXISTING	Y	8	Y	Y	-	-	-	-
8B	EXISTING	EXISTING	EXISTING	Y	8	Y	Y	-	-	3	-
8C	EXISTING	EXISTING	EXISTING	Y	8	Y	Y	-	-	15	-

3 PHASE FULLY ACTUATED (Gastonia City System)

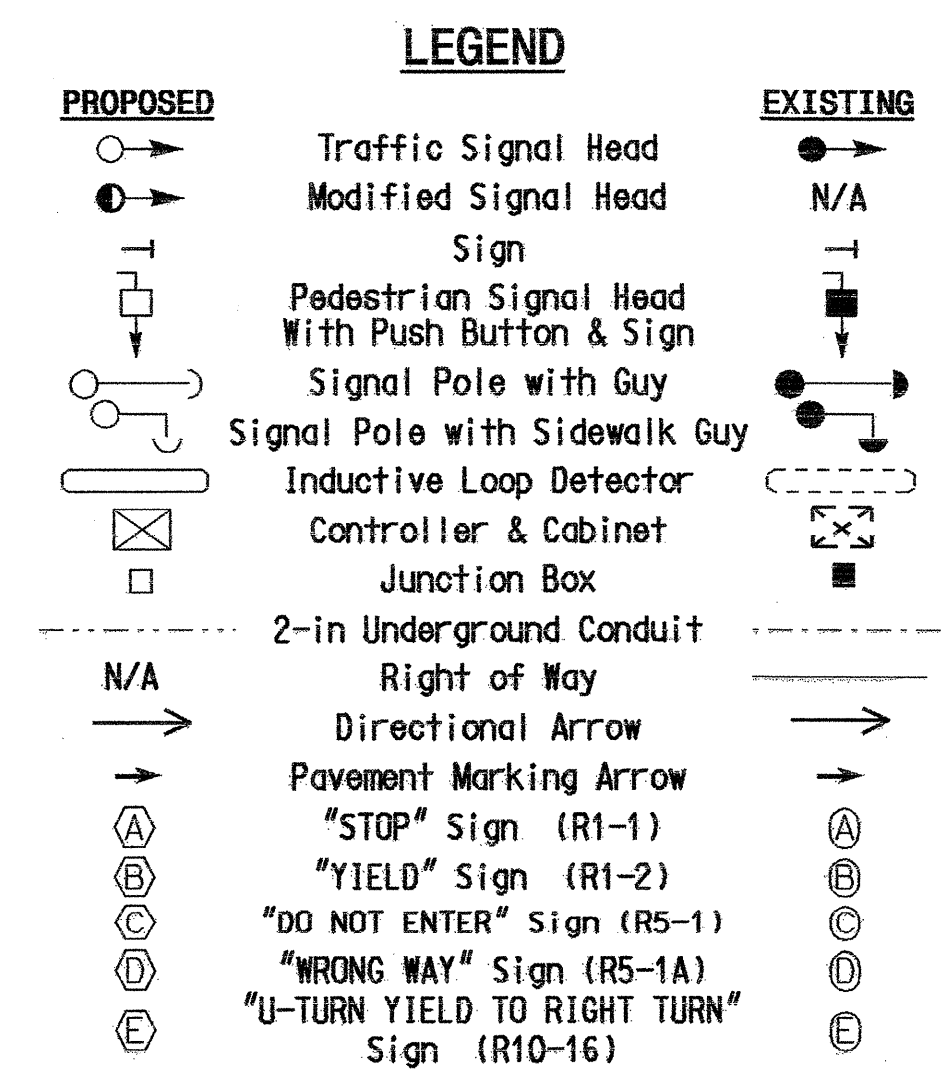
NOTES

- 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.
- Omit phase 5 during phase 6 on.
- Program controller to clear from phase 2+6 to phase 2+5 by progressing through phase 4+8 (see Electrical Details).
- 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 # 1715.
- A signal upgrade was done in 2004 under a different project. This plan is revised to be part of the city system and some minor changes in the Timing Chart.



2070L TIMING CHART					
FEATURE	PHASE				
	2	4	5	6	8
Min Green 1 *	14	7	7	14	7
Extension 1 *	6.0	1.0	1.0	6.0	3.0
Max Green 1 *	90	30	20	90	30
Yellow Clearance	5.1	4.0	4.0	5.1	4.0
Red Clearance	2.5	3.1	2.7	2.5	3.1
Walk 1 *	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation *	1.8	-	-	1.8	-
Max Variable Initial *	46	-	-	46	-
Time Before Reduction *	15	-	-	15	-
Time To Reduce *	45	-	-	45	-
Minimum Gap	3.4	-	-	3.4	-
Recall Mode	MIN. RECALL	-	-	MIN. RECALL	-
Vehicle Call Memory	YELLOW	-	-	YELLOW	-
Dual Entry	-	ON	-	-	ON
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.



SIGNAL UPGRADE

U.S. 29/74 (W. FRANKLIN BLVD.) AT EDWARD D. SADLER, JR. ELEMENTARY SCHOOL / FRONTAGE ROAD

DIVISION 12 GASTON COUNTY GASTONIA

PLAN DATE: February 2005 REVIEWED BY: D.V. Ishak

PREPARED BY: L. Blount REVIEWED BY:

SCALE: 1"=50'

SIGNATURE: [Signature] DATE: [Date]

SIG. INVENTORY NO. 12-1715