3 Phase
Fully Actuated
Gastonia City System

PHASING DIAGRAM

Ø2+6   Ø8

Ø1+6

PHASING DIAGRAM DETECTION LEGEND

- ◄—● DETECTED MOVEMENT
- ◄— UNDETECTED MOVEMENT (OVERLAP)
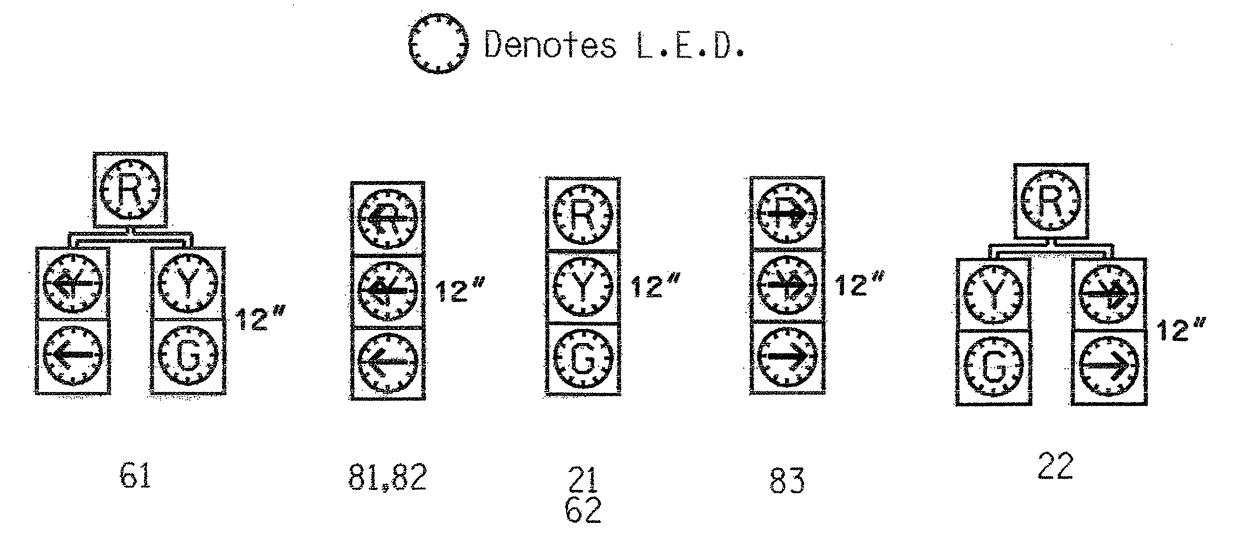- ◄— — UNSIGNALIZED MOVEMENT
- ◄ - - -► PEDESTRIAN MOVEMENT

TABLE OF OPERATION
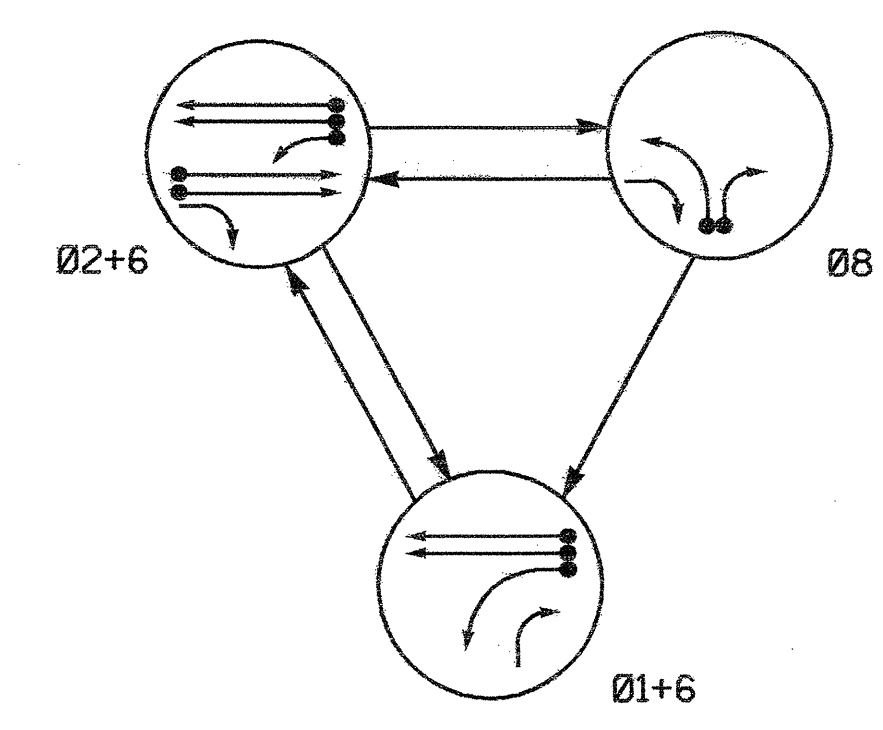
SIGNAL FACE	PHASE Ø1+6	Ø2+6	Ø8	FLASH
21	R	G	R	Y
22	R	G	R/	Y
61	G	G	R	Y
62	G	G	R	Y
81,82	R	R	R	R
83		R		R

SIGNAL FACE I.D.

◯ Denotes L.E.D.

61   81,82   21 / 62   83   22
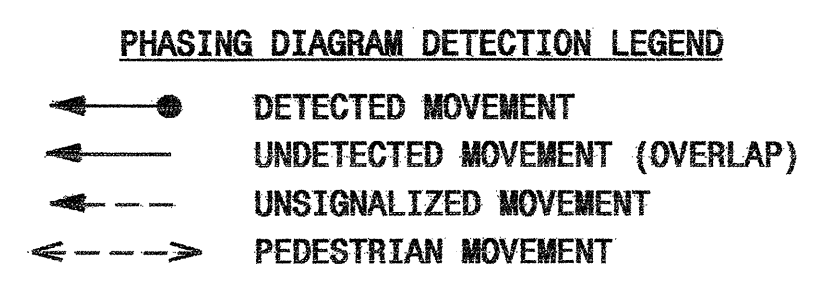
2070L LOOP & DETECTOR INSTALLATION

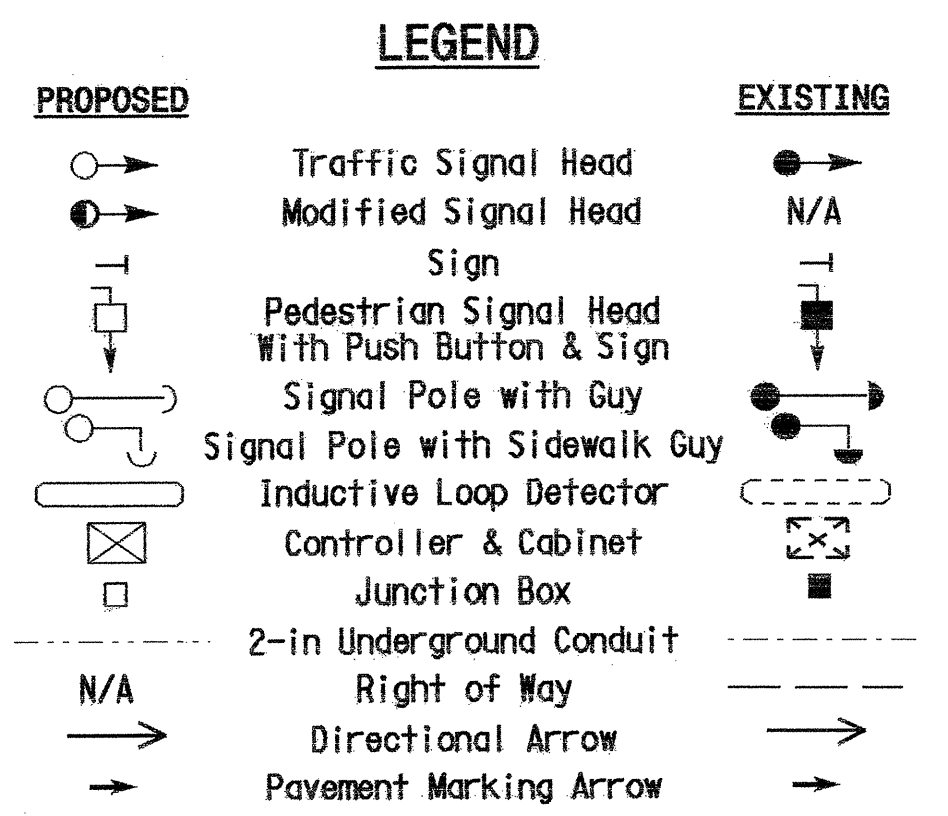| LOOP	INDUCTIVE LOOPS SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	EXISTING	EXISTING	EXISTING	-	1	Y			-	15	-	Y
2A,2B	6X6	300	6	Y	2	Y	Y	-	1.8	-	-	Y
2C,2D	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	Y
6A,6B	6X6	300	5	Y	6	Y	Y	-	1.8	-	-	Y
6C,6D	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	Y
8A,8B	EXISTING	EXISTING	EXISTING	-	8	Y	Y	-	-	5	-	Y

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 may be lagged.
4. Set all detector units to presence mode.
5. In the event of loop replacement, refer to the current Signals and Geometrics Design Manual and submit a Plan of Record to the Signals and Geometrics Section.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Pavement markings are existing.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. City system data: Controller Asset #0990.

SR 2446 (Robinwood Road)   45 MPH -2% Grade

81 82   83   6C   6B

62   6D   6A

61   1A

2A   2C   21

2B   2D   22   SR 2446 (Robinwood Road)

45 MPH -1% Grade

45 MPH -4% Grade

8B

8A

SR 2445 (Kendrick Road)
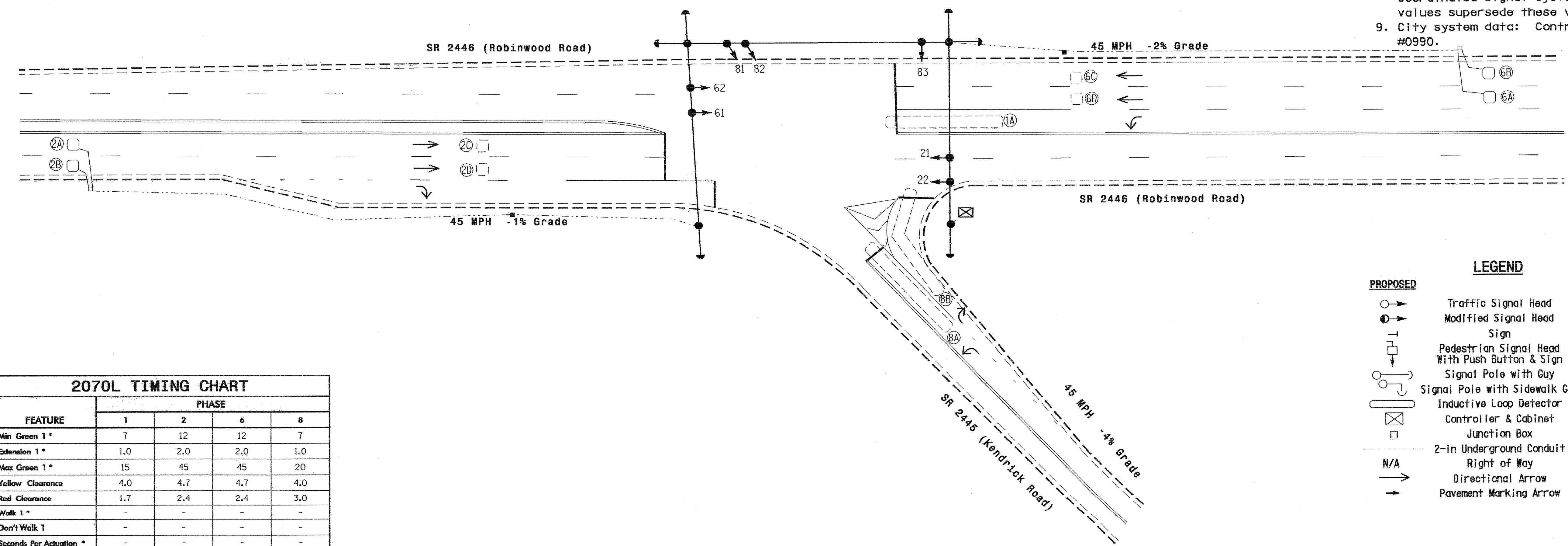
2070L TIMING CHART

FEATURE	PHASE 1	2	6	8
Min Green 1 *	7	12	12	7
Extension 1 *	1.0	2.0	2.0	1.0
Max Green 1 *	15	45	45	20
Yellow Clearance	4.0	4.7	4.7	4.0
Red Clearance	1.7	2.4	2.4	3.0
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	-	-	-	-
Simultaneous Gap	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

PROPOSED		EXISTING
◯─►	Traffic Signal Head	●─►
◑─►	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
⊠	Controller & Cabinet	
▢	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
──►	Directional Arrow	──►
─►	Pavement Marking Arrow	─►

Signal Upgrade

REVISIONS	INIT.	DATE

SCALE
0   30
1"=30'