PHASING DIAGRAM

Ø2+6   Ø4

Ø2+5

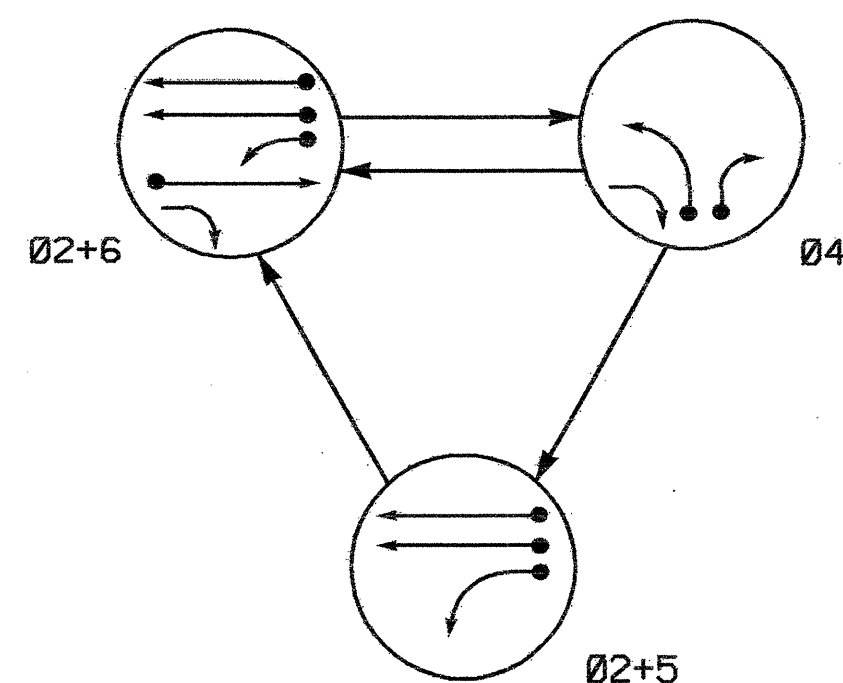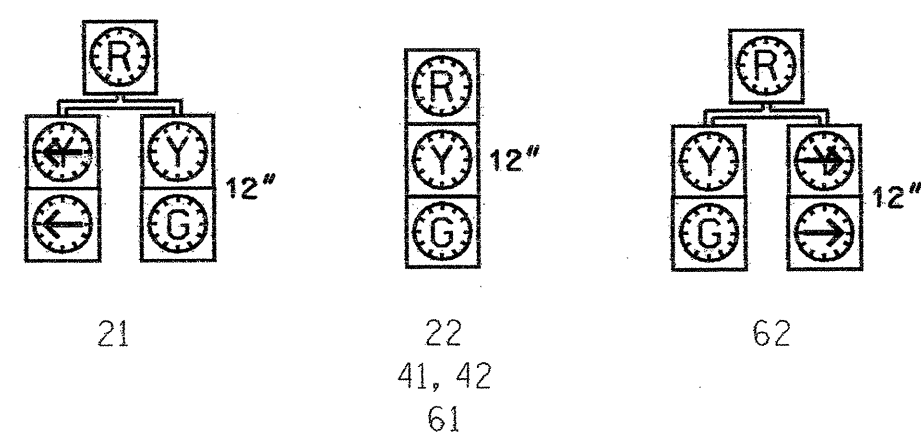### PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+5	Ø2+6	Ø4	FLASH
21	G	G	R	Y
22	G	G	R	Y
41, 42	R	R	G	R
61	R	G	R	Y
62	R	G	R	Y

SIGNAL FACE I.D.

⊙ Denotes L.E.D.

21

22
41, 42
61

62

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, 2B	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	-	1.8	-	Y
2C, 2D	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-	Y
4A	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	-	-	Y
4B	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	-	15	Y
5A	EXISTING	EXISTING	EXISTING	-	5	Y	Y	-	-	-	15	Y
					2	Y	Y	-	-	-	-	Y
6A	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	-	1.8	-	Y
6B	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-	Y

3 Phase
Fully Actuated
(Gastonia City System)

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. Omit phase 5 during phase 6 on.
4. Program controller to clear from phase 2+6 to phase 2+5 by progressing through phase 4 (see Electrical Details).
5. Set all detector units to presence mode.
6. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
8. City system data: Controller Asset #0310.
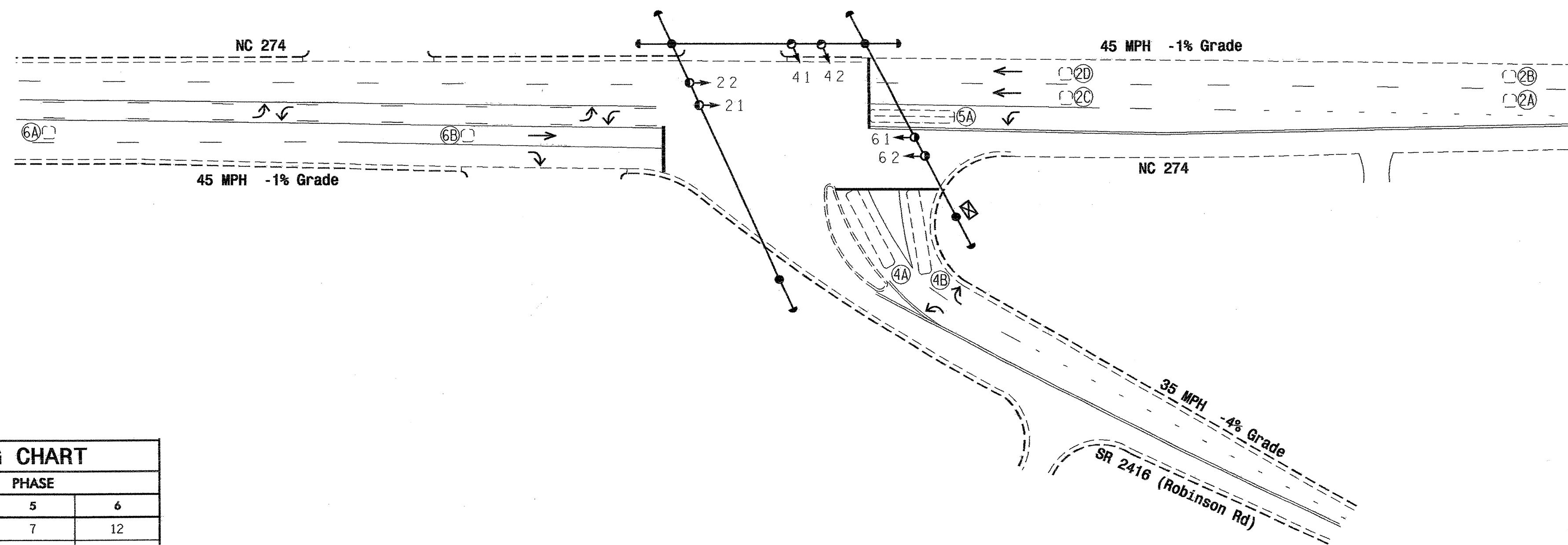
2070L TIMING CHART

FEATURE	PHASE 2	4	5	6
Min Green 1 *	12	7	7	12
Extension 1 *	2.0	1.0	1.0	2.0
Max Green 1 *	45	25	15	45
Yellow Clearance	4.7	4.0	4.0	4.7
Red Clearance	1.8	2.7	1.2	1.8
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.

NC 274   45 MPH -1% Grade

22
41 42
21

2D
2C
6A   6B   5A   2B
2A

61
62   NC 274

45 MPH -1% Grade

4A 4B

35 MPH -4% Grade

SR 2416 (Robinson Rd)

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

12-MAY-2005 09:30
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