PHASING DIAGRAM

Ø2+6

Ø2+5

Ø1+6

Ø4+8

Ø1+5

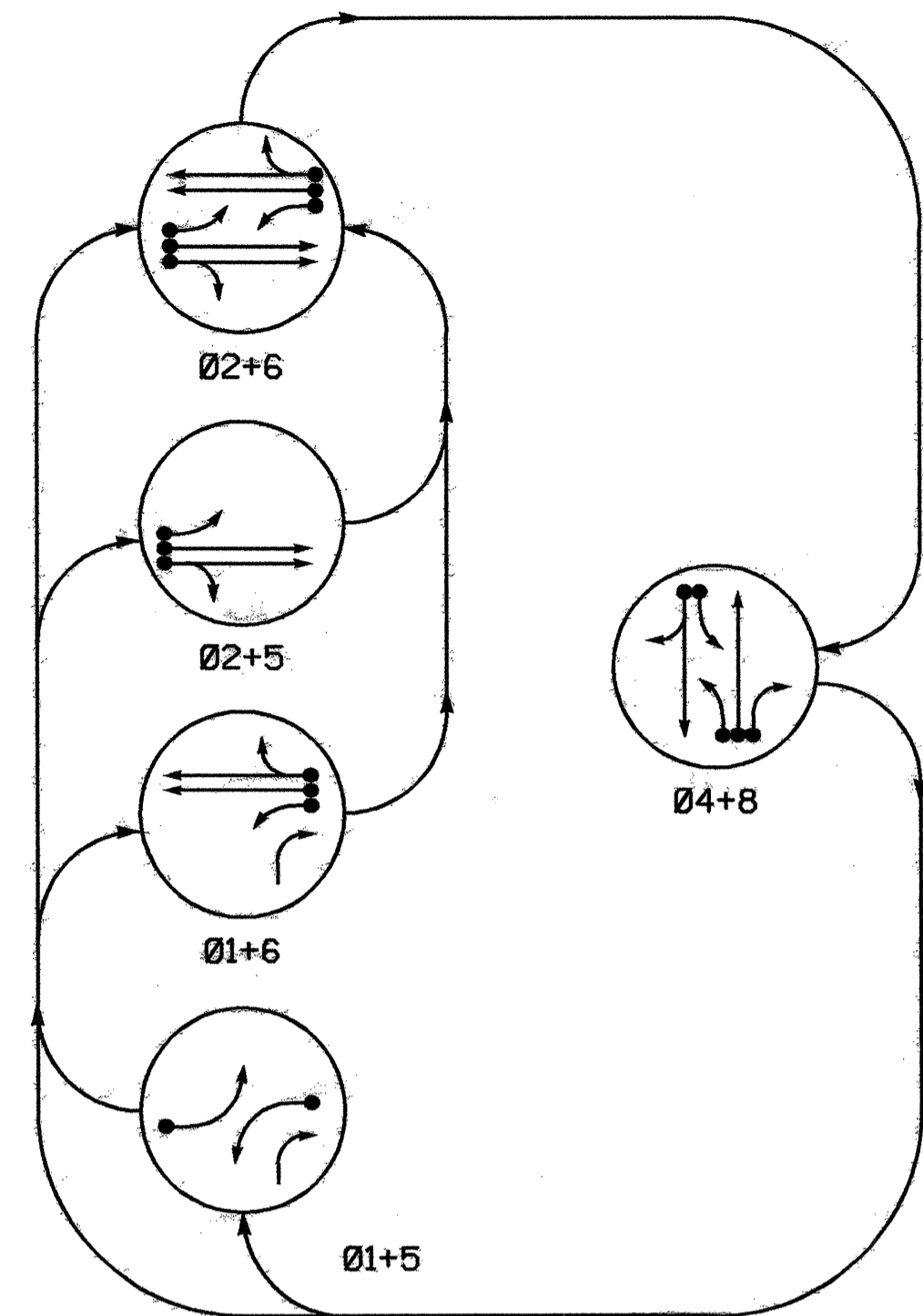### PHASING DIAGRAM DETECTION LEGEND
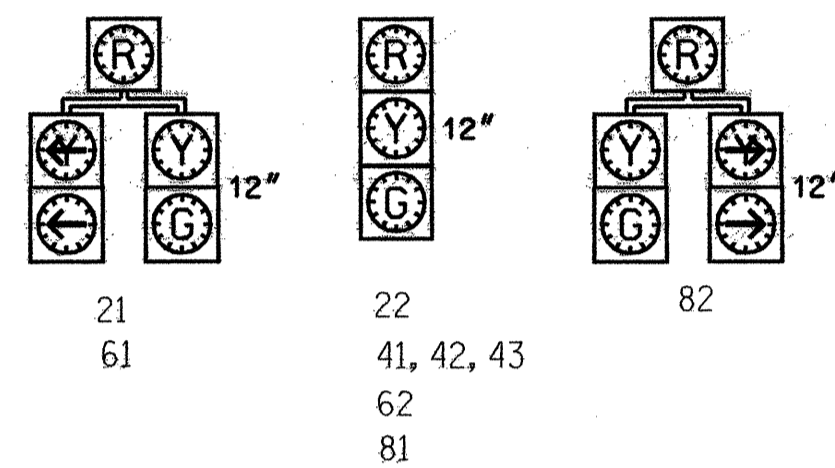
→● DETECTED MOVEMENT
→ UNDETECTED MOVEMENT (OVERLAP)
--→ UNSIGNALIZED MOVEMENT
<--→ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+8	FLASH
21	R	R	G	G	G	Y
22	R	R	G	G	G	Y
41, 42, 43	R	R	R	R	G	R
61	R	G	R	G	R	Y
62	R	G	R	G	R	Y
81	R	R	R	R	G	R
82	R	R	R	R	G	R

SIGNAL FACE I.D.

◯ Denotes L.E.D.

21
61

22
41, 42, 43
62
81

82

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
1A	EXISTING	EXISTING	EXISTING	—	1	—	Y	Y	—	—	—	15	Y
				—	6	Y	Y	—	—	—	3	Y
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	—	—	—	3	Y
4B	EXISTING	EXISTING	EXISTING	—	4	Y	Y	—	—	—	5	Y
5A	EXISTING	EXISTING	EXISTING	—	2	Y	Y	—	—	—	3	Y
				—	5	Y	Y	—	—	—	15	Y
6A, 6B	EXISTING	EXISTING	EXISTING	—	6	Y	Y	—	—	1.8	—	Y
6C, 6D	EXISTING	EXISTING	EXISTING	—	6	Y	Y	—	—	—	—	Y
8A	EXISTING	EXISTING	EXISTING	—	8	Y	Y	—	—	—	—	Y
8B	EXISTING	EXISTING	EXISTING	—	8	Y	Y	—	—	—	—	Y
8C	EXISTING	EXISTING	EXISTING	—	8	Y	Y	—	—	—	10	Y

5 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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
4. Omit phase 1 during phase 2 on.
5. Omit phase 5 during phase 6 on.
6. Set all detector units to presence mode.
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. Closed loop system data: Controller Asset 0103.

45 MPH -2% Grade

SR 2478 (Titman Road)

NC 279 (New Hope Road)

45 MPH   0% Grade

45 MPH   -1% Grade

NC 279 (New Hope Road)

SR 2478 (Hudson Blvd.)

45 MPH   -2% Grade

Tie
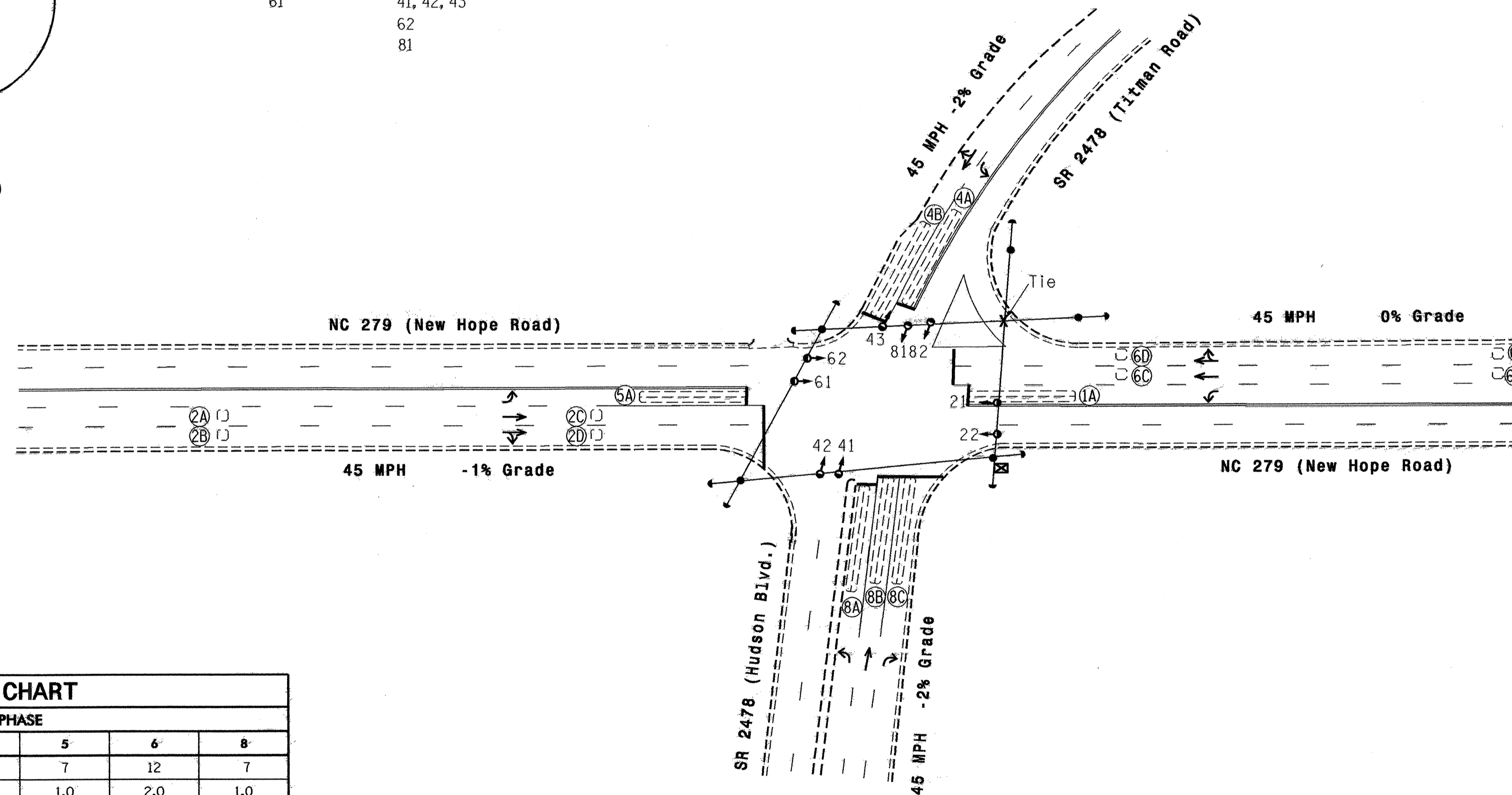
2070L TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	1.0	2.0	1.0	1.0	2.0	1.0
Max Green 1 *	15	45	15	15	45	25
Yellow Clearance	4.0	4.7	4.7	4.0	4.7	4.7
Red Clearance	1.8	1.6	1.5	2.1	1.6	1.5
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

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

SCALE
0   50
1"=50'

12-MAY-2005 14:32
w14osoolles-uni14workgroups#1o.pro\projects\U-4736#signal plans#2-0103\W120103.sig.dsn.20050218.sgn.
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14h001009060