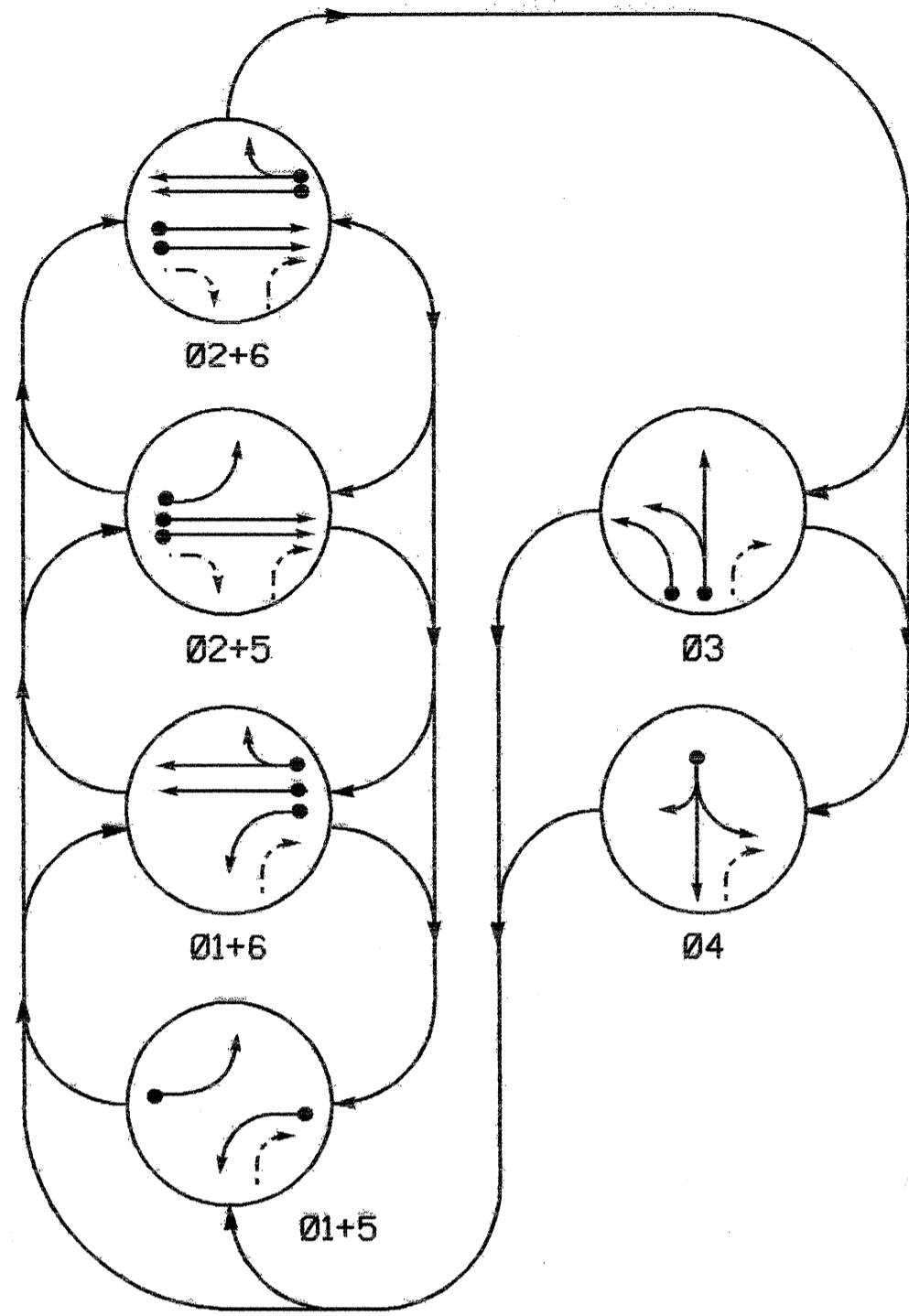


PHASING DIAGRAM



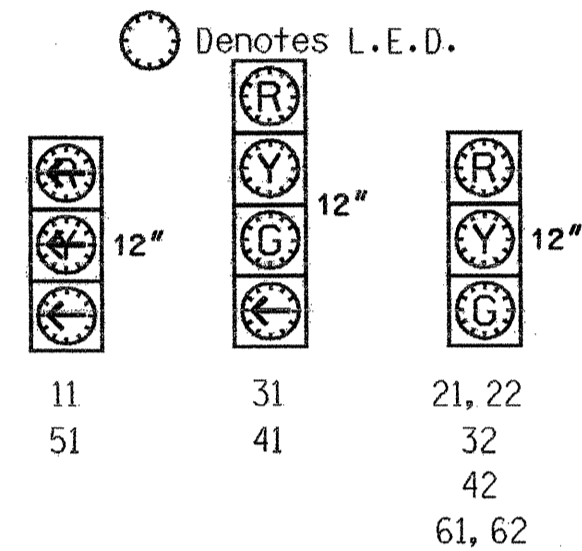
PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 3	Ø 4
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	R
31	R	R	R	R	G	R
32	R	R	R	R	G	R
41	R	R	R	R	G	R
42	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	R

SIGNAL FACE I.D.



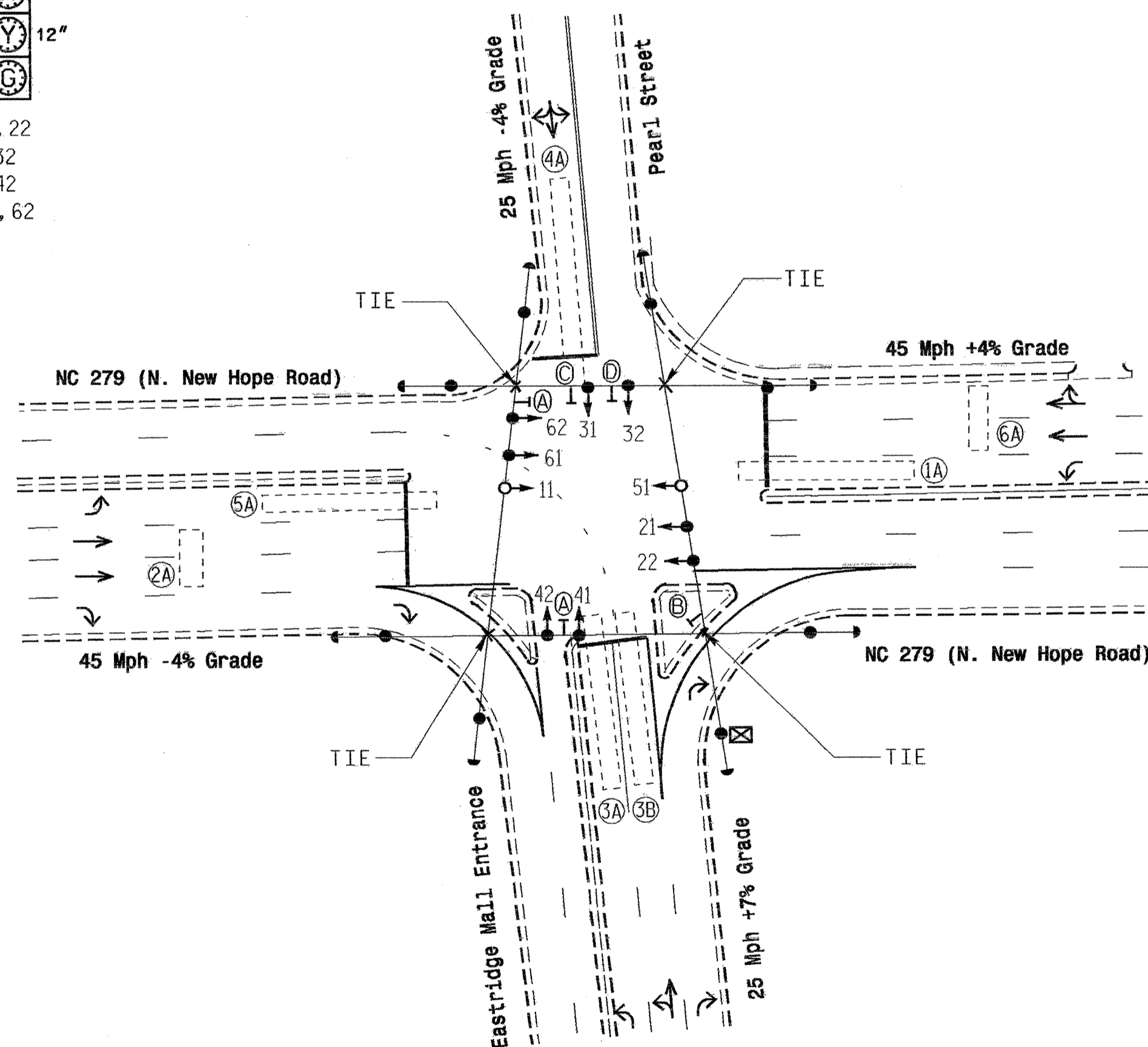
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	INDUCTIVE LOOPS			DETECTOR PROGRAMMING							
		TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CAB.
1A	6X60	EXISTING	EXISTING	N	1	Y	Y	-	-	-	-	Y
2A	6X22	EXISTING	EXISTING	N	2	Y	Y	-	-	-	-	Y
3A	6X60	EXISTING	EXISTING	N	3	Y	Y	-	-	-	-	Y
3B	6X60	EXISTING	EXISTING	N	3	Y	Y	-	-	-	-	Y
4A	6X70	EXISTING	EXISTING	N	4	Y	Y	-	-	-	10	Y
5A	6X60	EXISTING	EXISTING	N	5	Y	Y	-	-	-	-	Y
6A	6X22	EXISTING	EXISTING	N	6	Y	Y	-	-	-	-	Y

6 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.
- Phase 1 or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- 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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- City system data: Controller Asset #0176.



LEGEND

- | PROPOSED | EXISTING |
|----------|----------|
| | |
| | N/A |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| N/A | |
| | |
| | |
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| | |
| | |
| | |

2070L TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	10	7	7	7	10
Extension 1 *	2.0	2.0	2.0	1.0	1.0	2.0
Max Green 1 *	20	40	15	15	10	40
Yellow Clearance	4.0	4.7	4.0	4.0	4.0	4.7
Red Clearance	2.5	1.8	2.1	2.2	2.6	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	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

	<p>NC 279 (N. New Hope Road) At Pearl Street and Eastridge Mall Entrance</p>		
	<p>Division 12 Gaston County</p>	<p>Gastonia</p>	
	<p>PLAN DATE: November 2004</p>	<p>REVIEWED BY: C. Pierce</p>	
<p>122 N. McDowell St., Raleigh, NC 27603</p>	<p>PREPARED BY: J. Littlefield</p>	<p>REVIEWED BY: D. Y. Ishak</p>	<p>SIGNATURE: _____ DATE: _____</p>
<p>SCALE: 0 40 1"=40'</p>	<p>REVISIONS</p>	<p>INIT.</p>	<p>DATE</p>
<p>SIG. INVENTORY NO. 12-0176</p>		<p>DATE</p>	