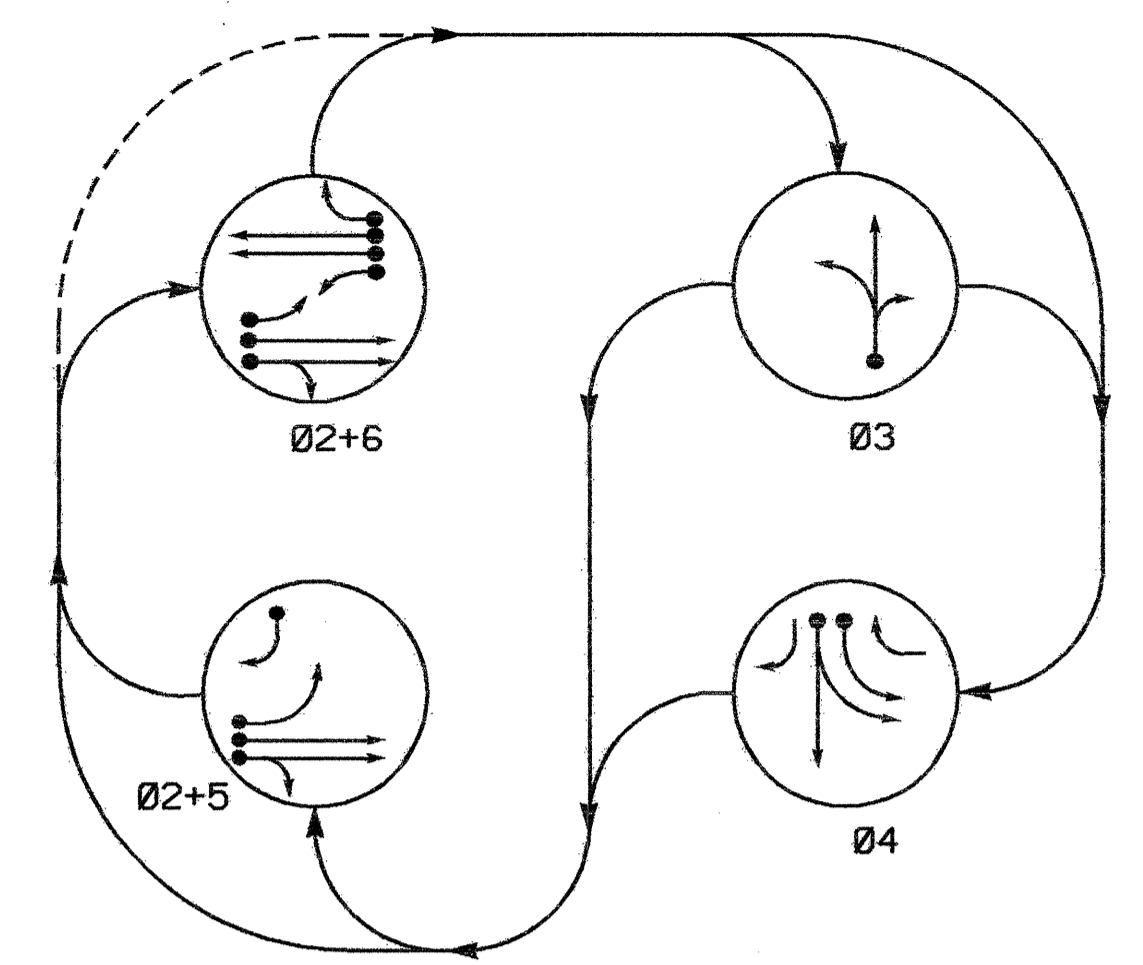


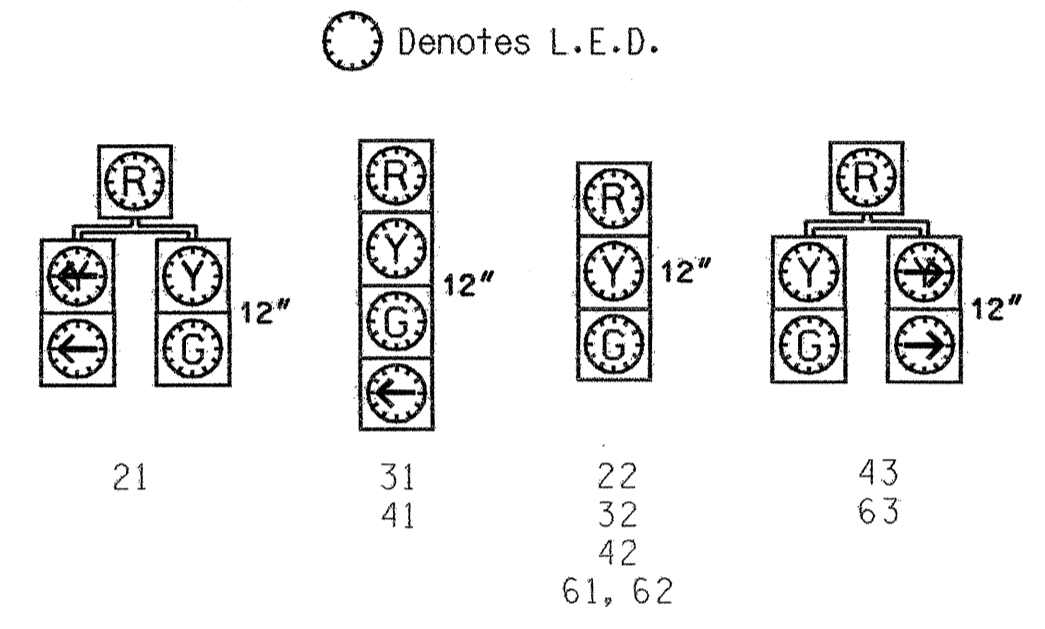
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND
 ● DETECTED MOVEMENT
 ○ UNDETECTED MOVEMENT (OVERLAP)
 - - - UNSIGNALIZED MOVEMENT
 - - - PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE				
	Ø 2+5	Ø 2+6	Ø 3	Ø 4	F LASH
21	G	G	R	R	Y
22	G	G	R	R	Y
31	R	R	G	R	R
32	R	R	G	R	R
41	R	R	R	G	R
42	R	R	R	G	R
43	R	R	R	G	R
61, 62	R	G	R	R	Y
63	R	G	R	R	Y

SIGNAL FACE I.D.



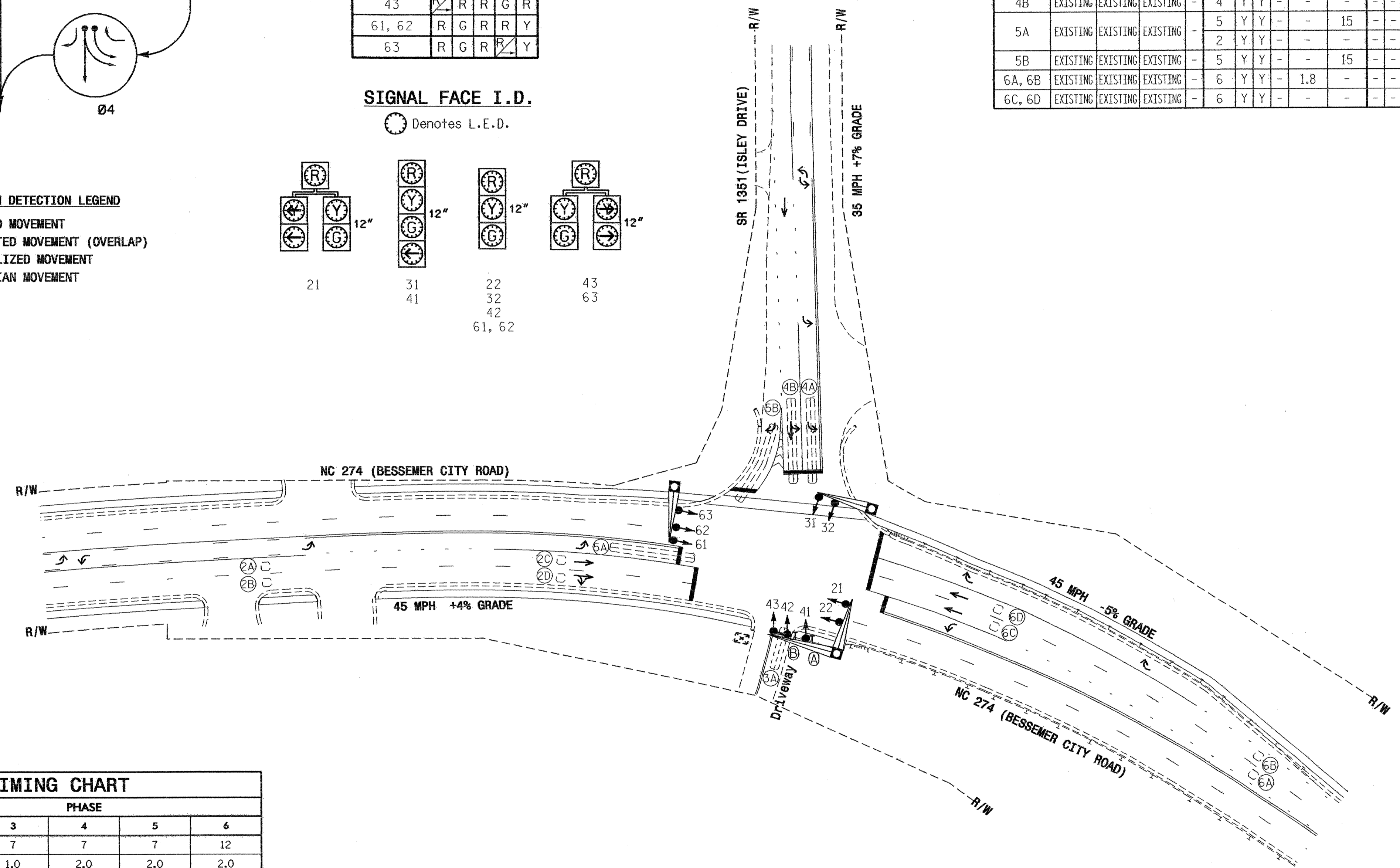
2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME		
2A, 2B	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	1.8	-	-
2C, 2D	EXISTING	EXISTING	EXISTING	-	2	Y	Y	-	-	-	-
3A	EXISTING	EXISTING	EXISTING	-	3	Y	Y	-	-	-	-
4A	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	10	-
4B	EXISTING	EXISTING	EXISTING	-	4	Y	Y	-	-	3	-
5A	EXISTING	EXISTING	EXISTING	-	5	Y	Y	-	-	15	-
5B	EXISTING	EXISTING	EXISTING	-	5	Y	Y	-	-	15	-
6A, 6B	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	1.8	-	-
6C, 6D	EXISTING	EXISTING	EXISTING	-	6	Y	Y	-	-	-	-

4 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 5 by progressing through phase 4 (see Electrical Details).
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- 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 signal system data: Controller Asset #0234.
- All work on this signal will be done and paid for under TIP Project U-2408. This plan is only to show that this intersection is part of the Gastonia City Signal System and some minor changes to timing chart.



2070L TIMING CHART

FEATURE	PHASE				
	2	3	4	5	6
Min Green 1*	12	7	7	7	12
Extension 1*	2.0	1.0	2.0	2.0	2.0
Max Green 1*	45	20	20	15	45
Yellow Clearance	4.7	4.0	4.0	4.0	4.7
Red Clearance	2.1	1.9	2.5	2.8	2.1
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

* 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 Traffic Signal Head		EXISTING Traffic Signal Head
	PROPOSED Modified Signal Head		EXISTING N/A
	PROPOSED Pedestrian Signal Head With Push Button & Sign		EXISTING Pedestrian Signal Head
	PROPOSED Signal Pole with Guy		EXISTING Signal Pole with Guy
	PROPOSED Signal Pole with Sidewalk Guy		EXISTING Signal Pole with Sidewalk Guy
	PROPOSED Inductive Loop Detector		EXISTING Inductive Loop Detector
	PROPOSED Controller & Cabinet		EXISTING Controller & Cabinet
	PROPOSED Junction Box		EXISTING Junction Box
	PROPOSED 2-in Underground Conduit		EXISTING 2-in Underground Conduit
	PROPOSED Right of Way		EXISTING Right of Way
	PROPOSED Directional Arrow		EXISTING Directional Arrow
	PROPOSED Pavement Marking Arrow		EXISTING Pavement Marking Arrow
	PROPOSED Metal Pole with Mastarm		EXISTING Metal Pole with Mastarm
	PROPOSED Left Arrow "ONLY" Sign (R3-5L)		EXISTING Left Arrow "ONLY" Sign (R3-5L)
	PROPOSED Combined Through and Left Arrow Sign (R3-6L)		EXISTING Combined Through and Left Arrow Sign (R3-6L)

Signal Upgrade

Prepared in the Offices of:

NC 274 (Bessemmer City Road) at SR 1351 (Isley Drive)
 Division 12 Gaston County Gastonia
 PLAN DATE: February 2005 REVIEWED BY:
 PREPARED BY: TS Brown REVIEWED BY:
 REVISIONS: INIT. DATE
 SCALE: 1"=50'
 SIGNATURE: DATE: 12-MARCH-05
 SIG. INVENTORY NO. 12-0234

12-MAY-2005 08:13
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