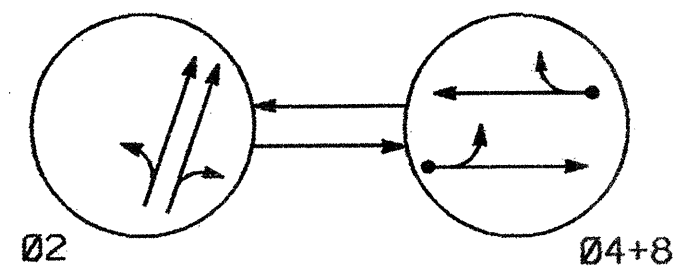


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

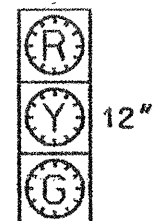
- → DETECTED MOVEMENT
- → UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ← → PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø 2	Ø 4+8	FLASH
21, 22	G	R	Y
41, 42	R	G	R
81, 82	R	G	R

SIGNAL FACE I.D.

○ Denotes L.E.D.

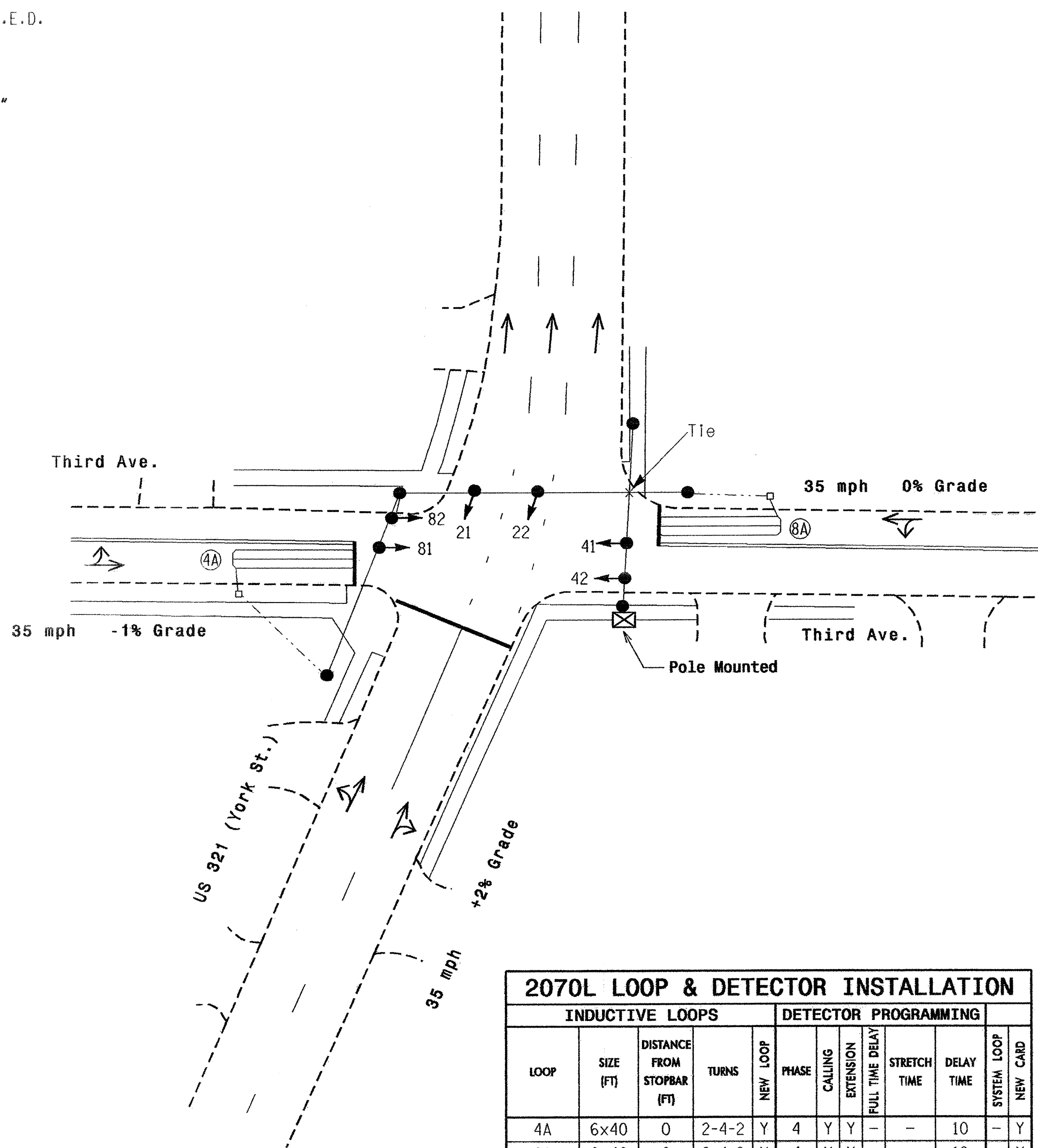


21, 22
41, 42
81, 82

**2 Phase
Semi-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. Set all detector units to presence mode.
4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Pavement markings are existing.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
7. City system data: Controller Asset 0072.



2070L TIMING CHART

FEATURE	PHASE		
	2	4	8
Min Green 1*	10	7	7
Extension 1*	0.0	0.0	0.0
Max Green 1*	45	25	25
Yellow Clearance	4.0	4.0	4.0
Red Clearance	1.1	1.7	1.7
Walk 1*	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation*	-	-	-
Max Variable Initial*	-	-	-
Time Before Reduction*	-	-	-
Time To Reduce*	-	-	-
Minimum Gap	-	-	-
Recall Mode	MAX RECALL	-	-
Vehicle Call Memory	-	-	-
Dual Entry	-	ON	ON
Simultaneous Gap	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.

2070L LOOP & DETECTOR INSTALLATION

LOOP	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
4A	6x40	0	2-4-2	Y	4	Y	Y	-	-	10	-	Y
8A	6x40	0	2-4-2	Y	4	Y	Y	-	-	10	-	Y

LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → Traffic Signal Head
○ → Modified Signal Head	N/A
○ → Sign	N/A
○ → Pedestrian Signal Head With Push Button & Sign	○ → Pedestrian Signal Head
○ → Signal Pole with Guy	○ → Signal Pole with Guy
○ → Signal Pole with Sidewalk Guy	○ → Signal Pole with Sidewalk Guy
○ → Inductive Loop Detector	○ → Inductive Loop Detector
○ → Controller & Cabinet	○ → Controller & Cabinet
○ → Pull Box	○ → Pull Box
○ → 2-in Underground Conduit	○ → 2-in Underground Conduit
○ → Right of Way with Marker	○ → Right of Way with Marker
○ → Directional Arrow	○ → Directional Arrow
○ → Pavement Marking Arrow	○ → Pavement Marking Arrow

Signal Upgrade

Prepared in the Office of:
US 321 (York St.) at Third Ave.
 Division 12 Gaston County Gastonia
 PLAN DATE: March 2005 REVIEWED BY:
 PREPARED BY: C. Pierce REVIEWED BY: D. Y. Ishak
 SCALE: 1" = 30'
 REVISIONS: INIT. DATE
 SIGNATURE: DATE
 12-0072