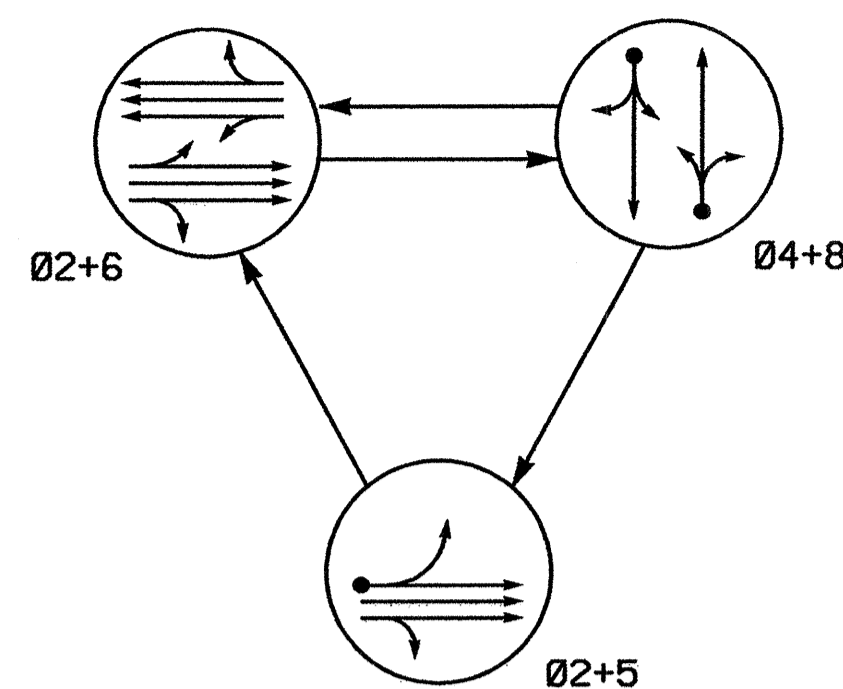


PHASING DIAGRAM

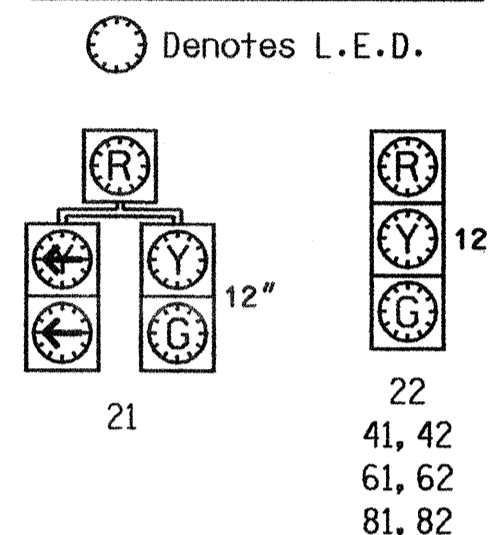


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE			
	Ø 2+5	Ø 2+6	Ø 4+8	FLASH
21	G	R	Y	
22	G	R	Y	
41, 42	R	R	R	
61, 62	R	R	R	
81, 82	R	R	R	

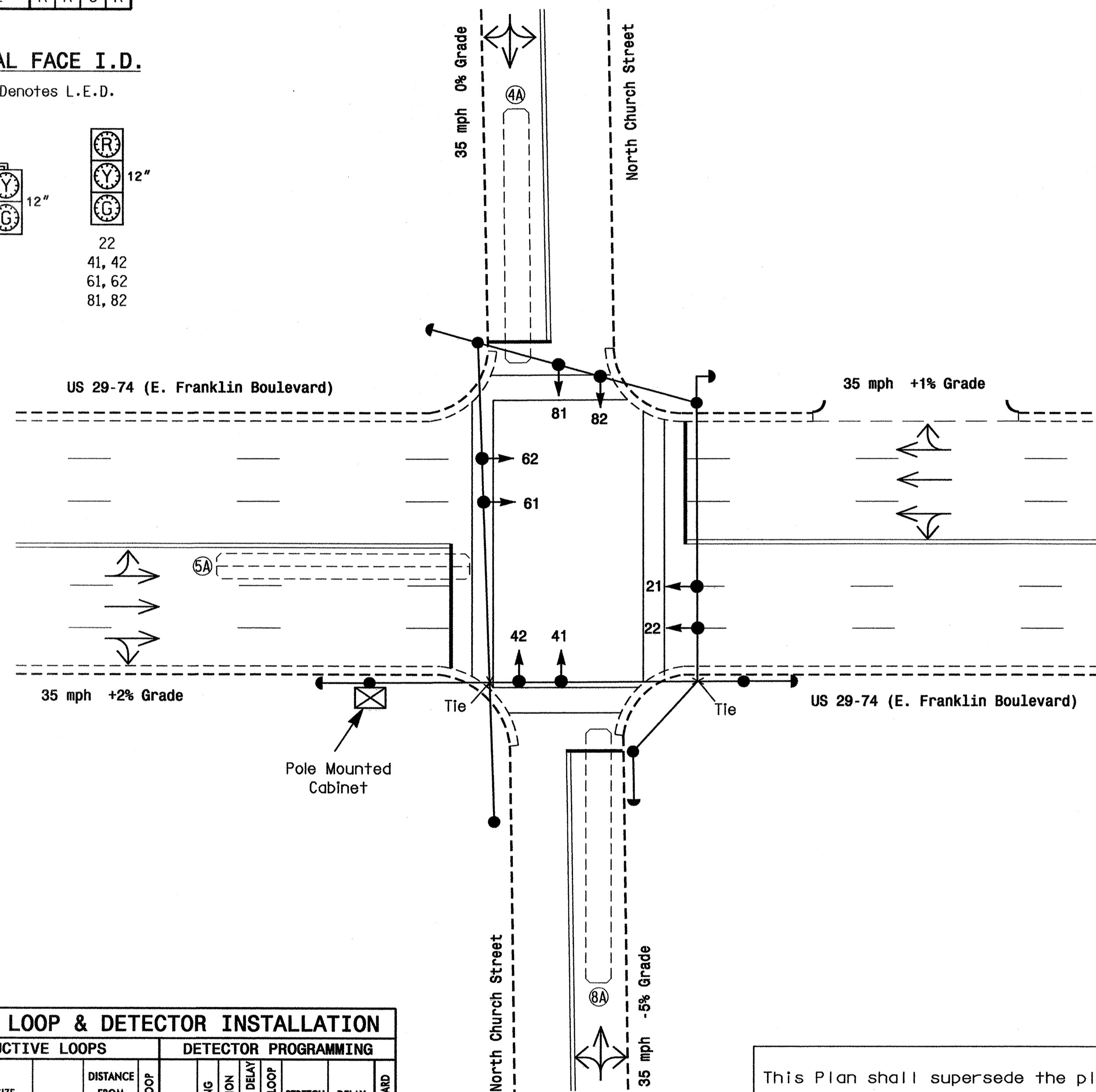
SIGNAL FACE I.D.



3 Phase Semi 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 2+5 by progressing through phase 4+8 (see Electrical Details).
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- City system data:
Controller Asset #: 0046.



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

FEATURE	2070L TIMING CHART				
	2	4	5	6	8
Min Green 1 *	10	7	7	10	7
Extension 1 *	0.0	1.0	1.0	0.0	1.0
Max Green 1 *	45	25	15	45	25
Yellow Clearance	4.0	4.0	4.0	4.0	4.0
Red Clearance	1.0	2.0	1.0	1.0	2.0
Walk 1 *	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	MAX RECALL	-	-	MAX RECALL	-
Vehicle Call Memory	YELLOW	-	-	YELLOW	-
Dual Entry	-	ON	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON

2070L LOOP & DETECTOR INSTALLATION

INDUCTIVE LOOPS				DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
4A	EXISTING	EXISTING	+5	4	Y	Y	—	—	—	10	Y
5A	EXISTING	EXISTING	+5	5	Y	Y	—	—	—	15	Y
8A	EXISTING	EXISTING	+5	8	Y	Y	—	—	—	10	Y

This Plan shall supersede the plan signed and sealed by Richard E. Mullinax, PE on 12/6/2004.

Signal Upgrade

US 29-74 (E. Franklin Boulevard) at N. Church Street

Division 12 Gaston County Gastonia

PLAN DATE: November 2005 REVIEWED BY: Z.W. Little

PREPARED BY: C.E. Pierce REVIEWED BY: D.Y. Ishak

SCALE: 1"=20'

SEAL

30-DEC-2005 14:12 S:\115 610\signal\work\groups\sig\project\sig-u-4736\signal\plans\12-0046\sig-u-4736-0041206.dgn zmlittle