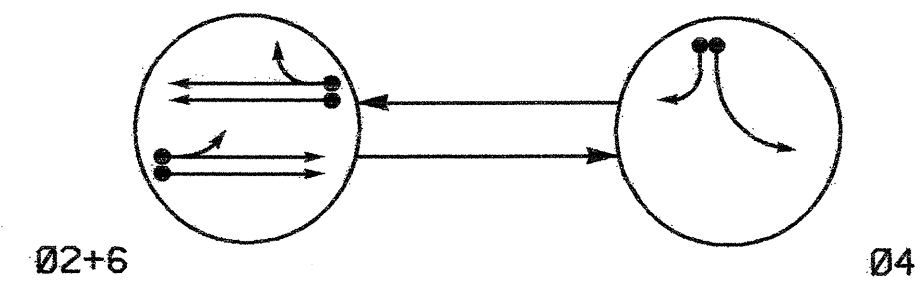


2 Phase Fully Actuated Gastonia City Signal System

PHASING DIAGRAM



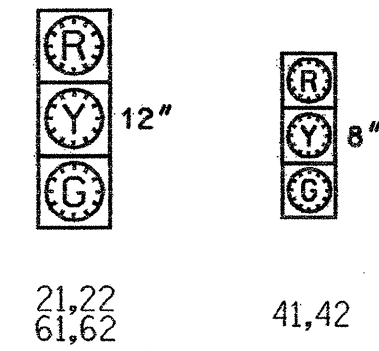
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE		
	Ø2+6	Ø4	FLASH
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y

SIGNAL FACE I.D.

○ Denotes L.E.D.

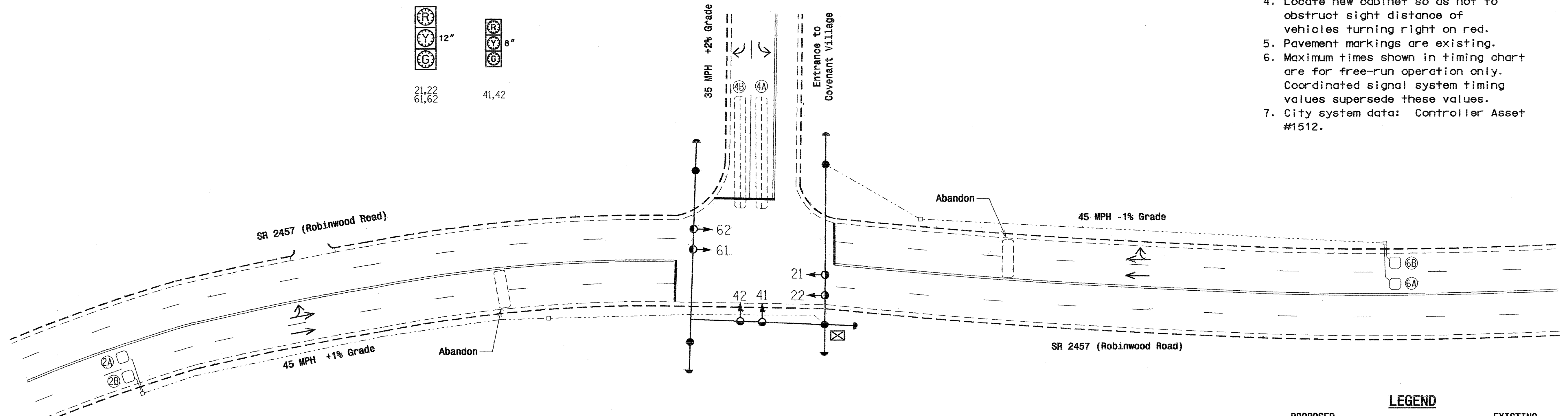


2070L LOOP & DETECTOR INSTALLATION

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
2A	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
4A,4B	EXIST	EXIST	EXIST	-	4	Y	Y	-	-	5	-	Y
6A	6X6	300	5	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	300	5	Y	6	Y	Y	-	-	-	-	Y

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.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 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 system data: Controller Asset #1512.



FEATURE	PHASE		
	2	4	6
Min Green 1*	12	7	12
Extension 1*	6.0	2.0	6.0
Max Green 1*	45	20	45
Yellow Clearance	4.7	4.0	4.7
Red Clearance	1.2	1.2	1.2
Walk 1*	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation*	1.5	-	1.5
Max Variable Initial*	34	-	34
Time Before Reduction*	15	-	15
Time To Reduce*	30	-	30
Minimum Gap	3.0	-	3.0
Recall Mode	MIN RECALL	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	YELLOW
Dual Entry	-	-	-
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.

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → N/A
⊥ Sign	⊥ Sign
⊥ Pedestrian Signal Head With Push Button & Sign	⊥ Pedestrian Signal Head With Push Button & Sign
○ 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
⊠ 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

Signal Upgrade

122 N. McDowell St., Raleigh, NC 27603

SR 2457 (Robinwood Road) at Entrance to Covenant Village

Division 12 Gaston County Gastonia

PLAN DATE: February 2005 REVIEWED BY: D.Y. Ishak

PREPARED BY: Z.M. Little REVIEWED BY:

SEAL

30 MARCH 2005

SCALE 1"=30'

REVISIONS	INIT.	DATE

SIGNATURE

STG. INVENTORY NO. 12-112

12-MAY-2005 10:43:00 AM \\server\mnt\work\projects\12-1512\242\Sig242.dgn 20050330.dgn