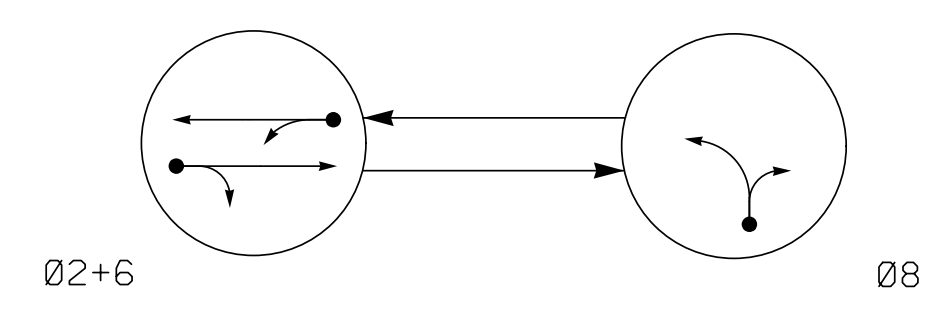


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

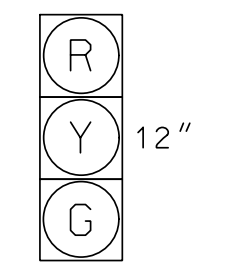
- ←● DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ←- UNSIGNALIZED MOVEMENT
- ←- - - PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	02+6	08	FLASH
21,22	G	R	Y
61,62	G	R	Y
81,82	R	G	R

**SIGNAL FACE I.D.**

All Heads L.E.D.



21,22  
61,62  
81,82

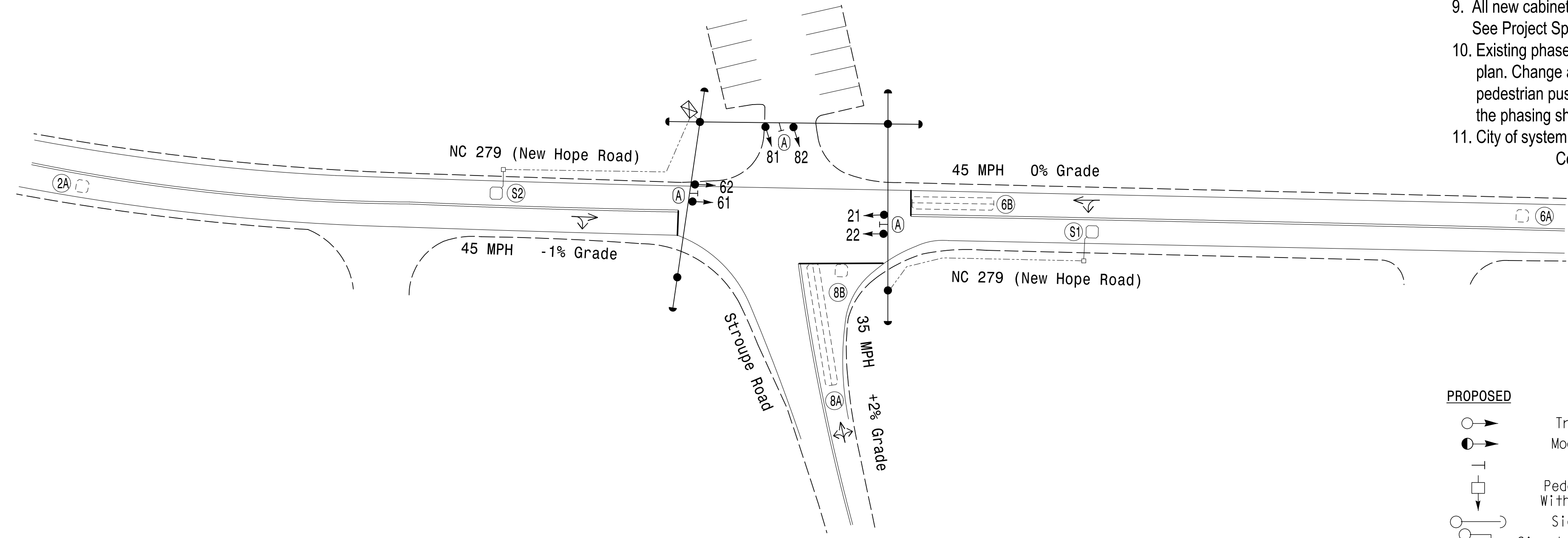
**DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING								
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD	
2A	6X6	300	EXIST	-	2	Yes	-	-	-	X	N	-	X
6A	6X6	300	EXIST	-	6	Yes	-	-	-	-	N	-	X
6B	6X40	0	2-4-2	-	6	Yes	2.0	5	-	-	G	-	X
8A	6X60	0	2-4-2	-	8	Yes	-	-	-	-	N	-	X
8B	6X6	0	EXIST	-	8	Yes	-	5	-	-	N	-	X
S1	6X6	+200	6	X	-	No	-	-	-	-	N	X	X
S2	6X6	+200	6	X	-	No	-	-	-	-	N	X	X

**2 Phase Fully Actuated Gastonia Signal System**

**NOTES**

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
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. In the event of loop replacement, refer to the current ITS and Signal Design Manual and submit a Plan of Record to the Signal Design Section.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Pavement markings are existing.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
8. Install new cabinet on the existing cabinet foundation.
9. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
10. Existing phase 4 has been changed to phase 8 on this plan. Change all signal heads, pedestrian signal heads, pedestrian push buttons, and loops as needed to achieve the phasing shown.
11. City of system data:  
Controller Asset #1536.



**TIMING CHART**

FEATURE	PHASE		
	2	6	8
Min Green *	12	12	7
Walk *	-	-	-
Ped Clear	-	-	-
Veh. Extension *	6.0	6.0	1.0
Max 1 *	90	90	25
Yellow	4.6	4.6	3.0
Red Clear	1.6	1.6	2.3
Red Revert	2.0	2.0	2.0
Actuations B4 Add *	-	-	-
Seconds / Actuation *	2.5	-	-
Max Initial *	34	-	-
Time Before Reduction *	15	15	-
Time To Reduce *	40	40	-
Minimum Gap	3.0	3.0	-
Locking Detector	X	X	-
Recall Position	MIN RECALL	MIN RECALL	-
Dual Entry	-	-	-
Simultaneous Gap	X	X	X

\* 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	EXISTING
	N/A

**Signal Upgrade**

**NC 279 (New Hope Road) at Stroupe Road**

Division 12 Gaston County Gastonia

PLAN DATE: May 2021 REVIEWED BY: SL Phillips

PREPARED BY: CF Davis REVIEWED BY: KP Baumann

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DocuSigned by: 3/11/2022

SIG. INVENTORY NO. 12-1536

PLANS PREPARED IN THE OFFICE OF:  
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