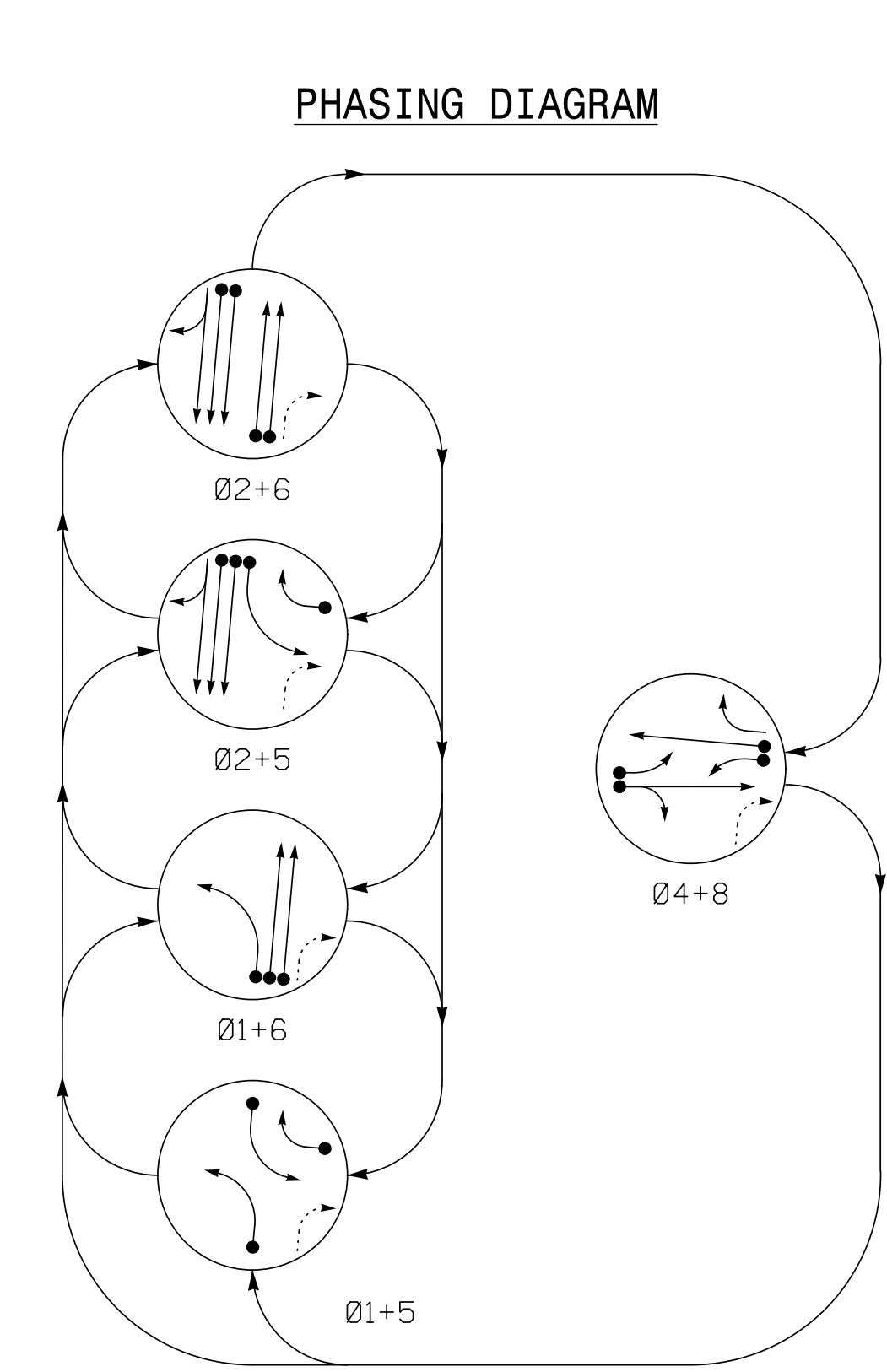


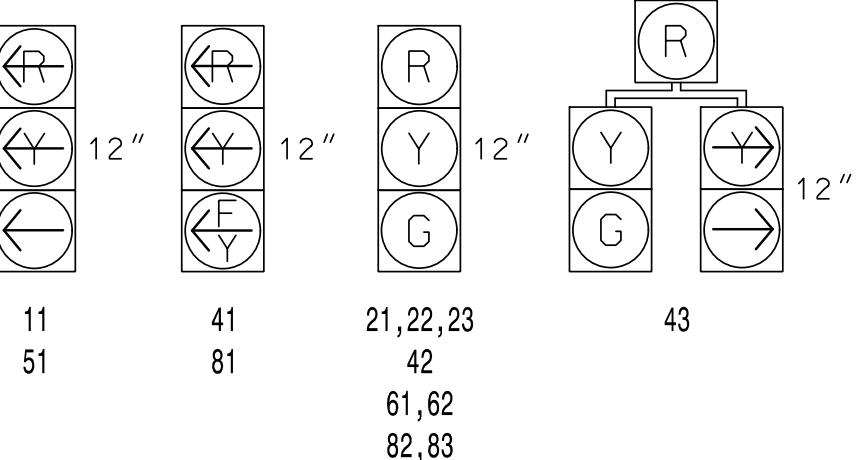
**5 Phase
Fully Actuated
Gastonia Signal System**
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Reposition existing signal heads numbered 21, 22, 82, & 83.
- 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 shall supersede these values.
- Disconnect and abandon existing loops 2C, 2D, 6C, & 6D.
- Install new cabinet on the existing cabinet foundation.
- All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
- Reconnect lead-in cable to separate loops 2A & 2B and 6A & 6B, as shown.
- Existing signal heads 41, 42, 81, & 82 have been relabeled to 42, 43, 82, & 83, respectively.
- City system data:
Controller Asset #1535.

TABLE OF OPERATION						
SIGNAL FACE	PHASE					
	0	0	0	0	0	F
11	-	-	R	R	R	R
21,22,23	R	R	G	G	Y	
41	-R	-R	R	R	Y	R
42	R	R	R	R	G	R
43	R	R	R	R	G	R
51	-	-R	-R	-R	R	R
61,62	R	G	R	G	Y	
81	-R	-R	R	R	Y	R
82,83	R	R	R	R	G	R

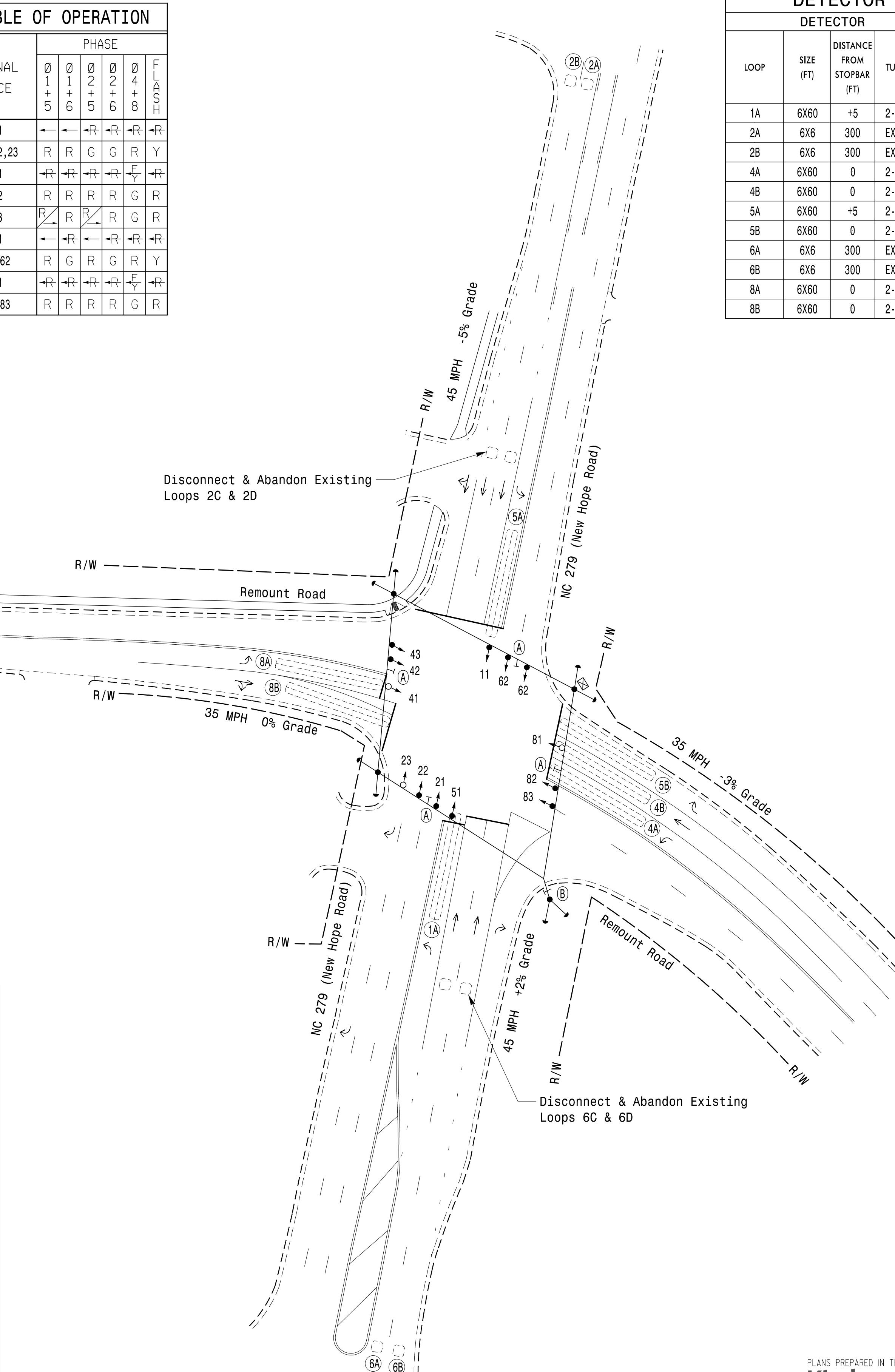
**SIGNAL FACE I.D.**

All Heads L.E.D.

**TIMING CHART**

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	1.0	6.0	1.0	1.0	6.0	1.0
Max 1 *	15	45	25	15	45	25
Yellow	3.0	5.0	4.1	3.1	4.3	4.1
Red Clear	3.1	1.9	2.3	2.8	1.9	2.3
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-	-	-
Seconds /Actuation *	-	1.5	-	-	1.5	-
Max Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.0	-	-	3.0	-
Locking Detector	-	X	-	-	X	-
Recall Position	-	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	-	X	-	-	X
Simultaneous Gap	X	X	X	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.

**Signal Upgrade**

PLANS PREPARED IN THE OFFICE OF: Kimley-Horn NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 (919) 677-2000		Prepared For: Transportation Mobility and Safety Division State of North Carolina Division 12 Gaston County Gastonia PLAN DATE: May 2021 REVIEWED BY: SL Phillips PREPARED BY: CF Davis REVIEWED BY: KP Baumann REVISIONS INIT. DATE SCALE 0 40 1" = 40'	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		 SEAL NORTH CAROLINA STATE OF KELVIN P. BAUMANN ENGINEER DATE SIG. INVENTORY NO. 12-1535	