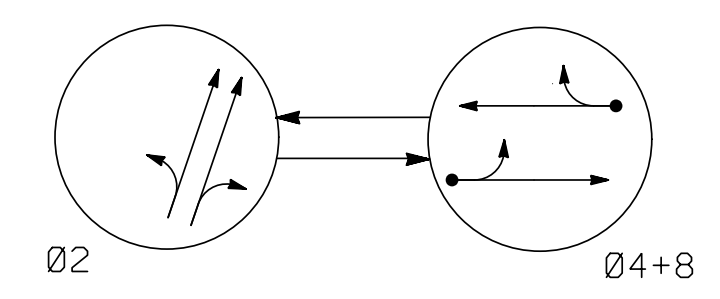


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE		
	02	04+8	FLIGHT
21, 22	G	R	Y
41, 42	R	G	R
81, 82	R	G	R

DETECTOR INSTALLATION CHART											
LOOP	DETECTOR				PROGRAMMING						
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP CARD
4A	6X40	0	2-4-2	-	4	Yes	-	-	-	N	- X
8A	6X40	0	2-4-2	-	4	Yes	-	-	-	N	- X

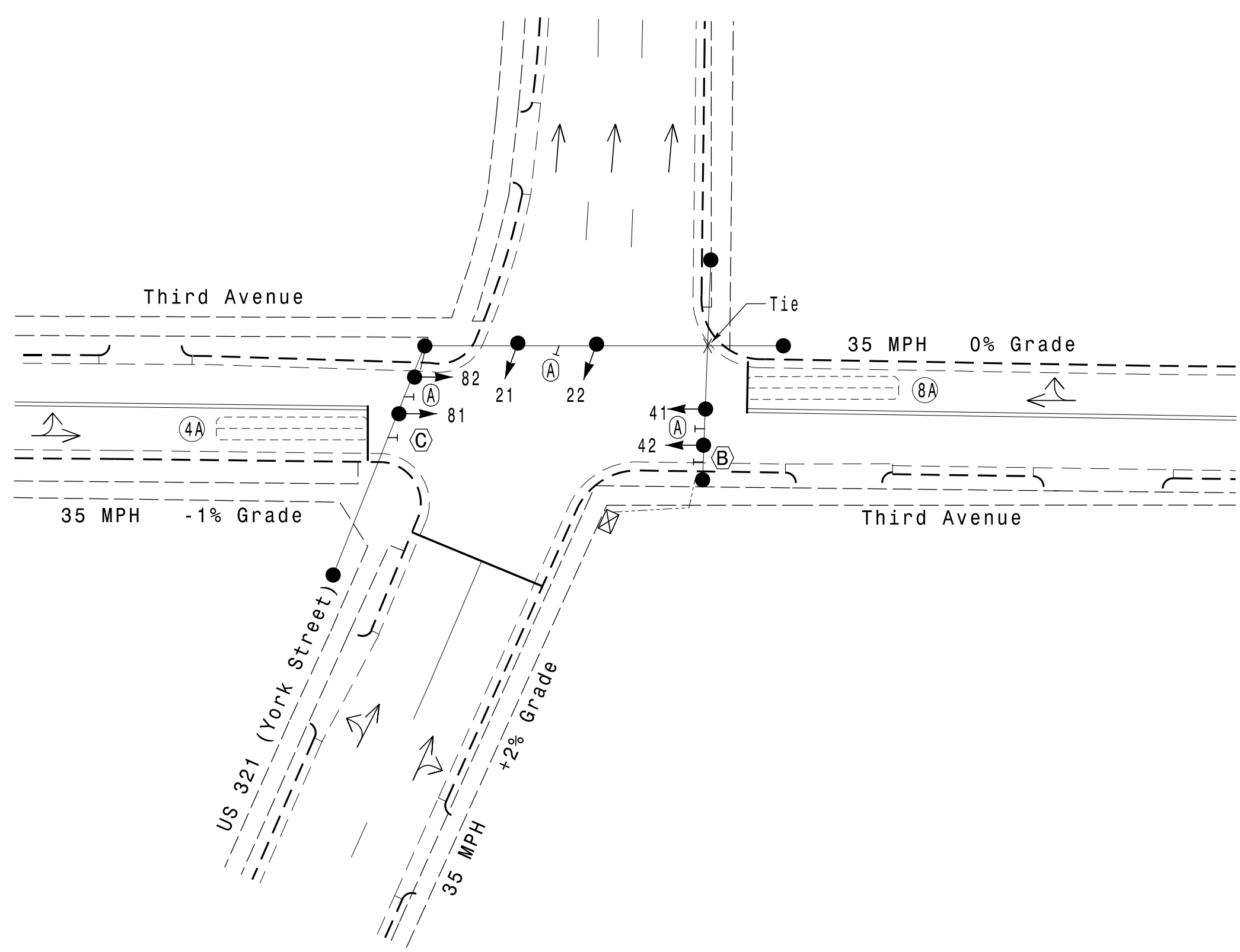
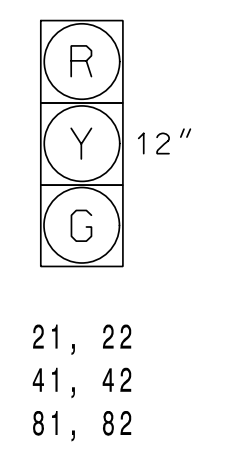
2 Phase Semi-Actuated Gastonia Signal System

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. Install new cabinet on a new cabinet foundation.
6. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. Pavement markings are existing.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
10. Rewire all intersection equipment to new cabinet.
11. City system data:
Controller Asset: #0072

SIGNAL FACE I.D.

All Heads L.E.D.



FEATURE	PHASE		
	2	4	8
Min Green *	10	7	7
Walk *	-	-	-
Ped Clear	-	-	-
Veh. Extension *	-	2.0	2.0
Max 1 *	45	25	25
Yellow	3.7	3.9	3.9
Red Clear	1.2	1.5	1.5
Red Revert	2.0	2.0	2.0
Actuations B4 Add *	-	-	-
Seconds / Actuation *	-	-	-
Max Initial *	-	-	-
Time Before Reduction *	-	-	-
Time To Reduce *	-	-	-
Minimum Gap	-	-	-
Locking Detector	-	-	-
Recall Position	MAX RECALL	-	-
Dual Entry	-	X	X
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.

PROPOSED		EXISTING	
	Traffic Signal Head		Traffic Signal Head
	Modified Signal Head		N/A
	Sign		N/A
	Pedestrian Signal Head		Pedestrian Signal Head
	Signal Pole with Push Button & Sign		Signal Pole 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 Junction Box		Controller & Cabinet Junction Box
	2-in Underground Conduit		2-in Underground Conduit
	Right of Way		Right of Way
	Directional Arrow		Directional Arrow
	Street Name Sign (D3-1)		Street Name Sign (D3-1)
	No Right Turn Sign (R3-1)		No Right Turn Sign (R3-1)
	No Left Turn Sign (R3-2)		No Left Turn Sign (R3-2)

Signal Upgrade

 Prepared For: Transportation Mobility and Safety Division NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SIGNAL DESIGN SECTION 750 N. Greenfield Pkwy, Garner, NC 27529 NC License #0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 (919) 677-2000	US 321 (York Street) at Third Avenue		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED Kevin P. Baumann ENGINEER
	Division 12 Gaston County Gastonia PLAN DATE: May 2021 REVIEWED BY: SL Phillips PREPARED BY: DM Curri REVIEWED BY: KP Baumann	REVISIONS INIT. DATE	

3/9/2022 11:13:21 AM Dantellb.Curr1 \\K:\mley-horn.com\SE-RAL\MRAL_TFDK_LTS\011036569_Gastonia Signal System9_Signal.kws4 - Signal Design\B120072-2021.dgn