

TABLE OF OPERATION

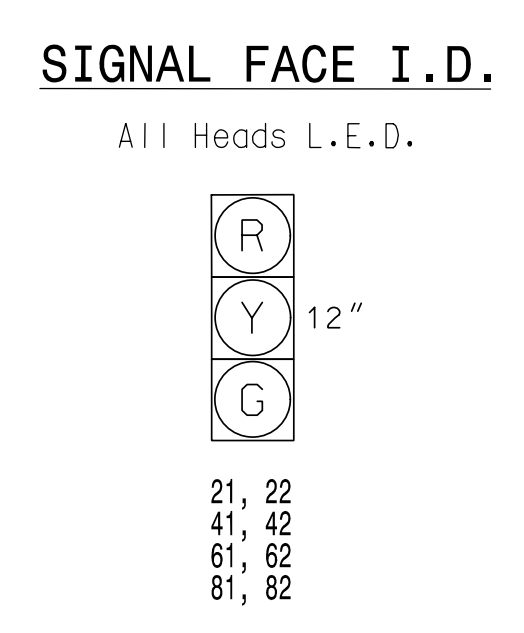
SIGNAL FACE	PHASE				
	02+6	04+8	03	05	HEADS
21,22	R	G	R	Y	
41,42	R	G	R	G	R
61,62	G	R	G	R	Y
81,82	R	G	R	G	R

EV PREEMPT

FUNCTION	PRE 3	PRE 5
Exit Phase(s)	2+6	4+8
Preempt Override	OFF	OFF
Delay Time	0	0
Ped Clear Through Yellow	N	N
Terminate Phases	N	N
Entrance Walk	-	-
Entrance Ped Clear	-	-
Entrance Min Green	1	1
Entrance Yellow Change	25.5*	25.5*
Entrance Red Clear	25.5*	25.5*
Minimum Dwell Time	7	7
Preempt Input Extension Time **	2	2
Preempt Max Time	120	120
Exit Yellow Change	25.5*	25.5*
Exit Red Clear	25.5*	25.5*

* Time defaults to time used for phase during normal operation
** Program Timing on GPS Detection Unit

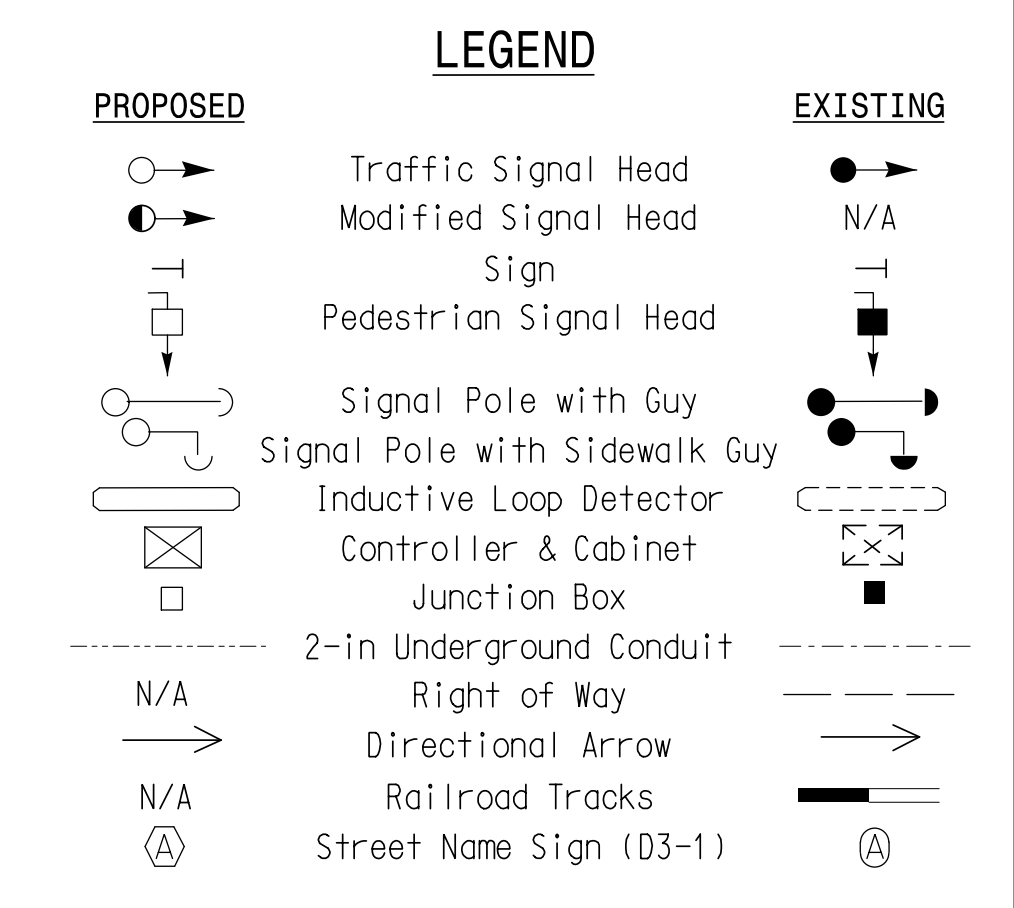
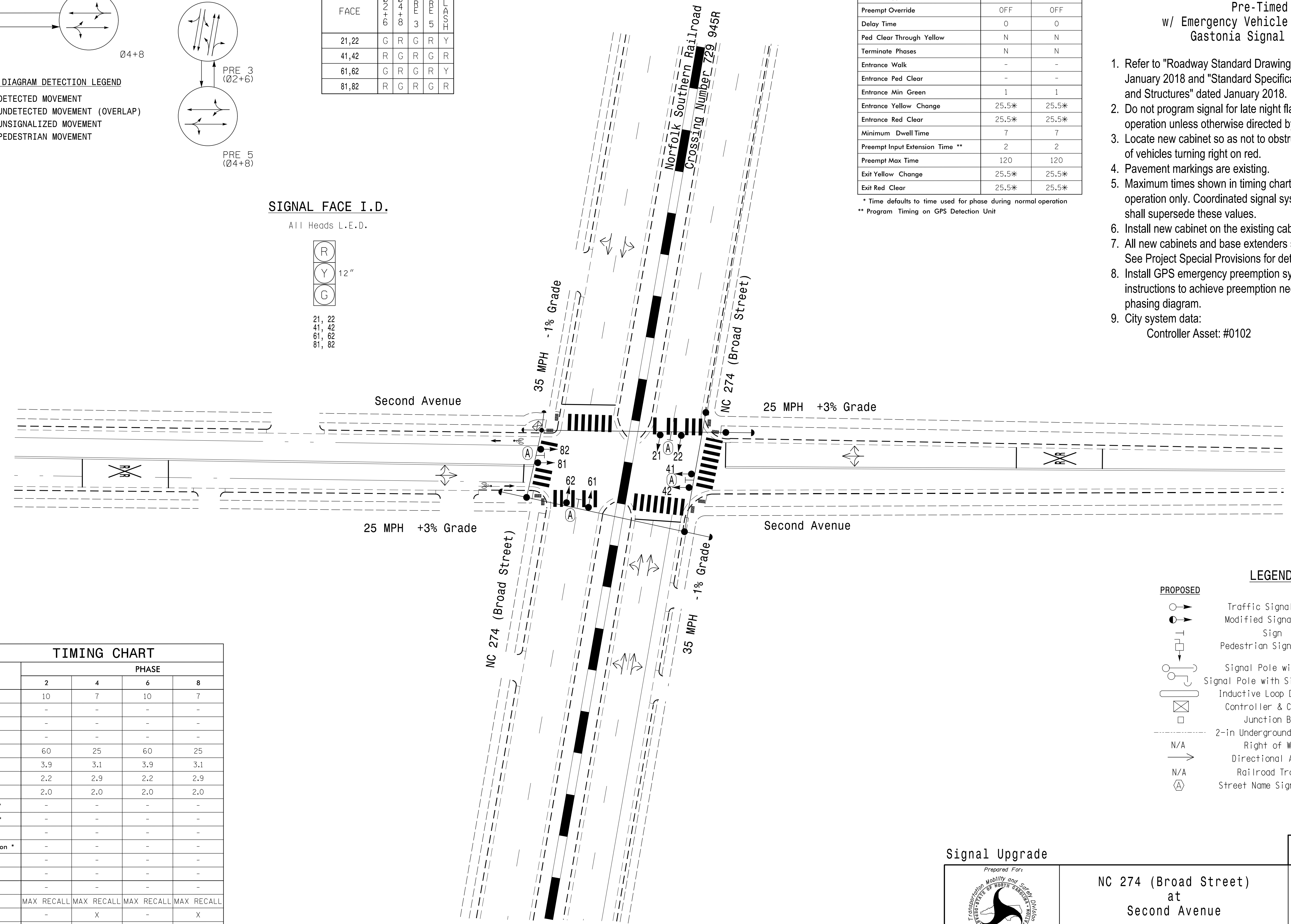
- ### 2 Phase Pre-Timed w/ Emergency Vehicle Preemption Gastonia Signal System
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
 3. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
 4. Pavement markings are existing.
 5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
 6. Install new cabinet on the existing cabinet foundation.
 7. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
 8. Install GPS emergency preemption system per manufacturer's instructions to achieve preemption needed, as shown in phasing diagram.
 9. City system data:
Controller Asset: #0102



TIMING CHART

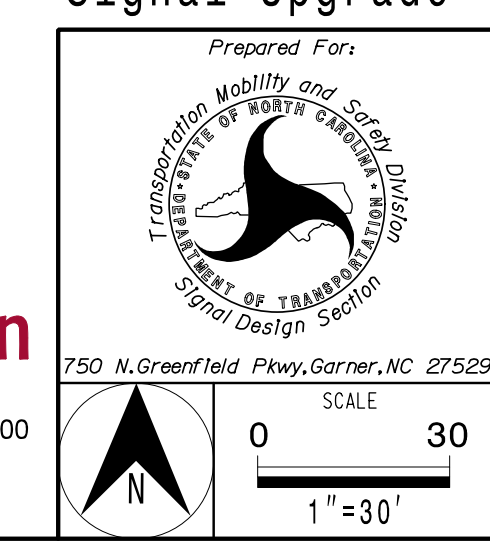
FEATURE	PHASE			
	2	4	6	8
Min Green *	10	7	10	7
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Veh. Extension *	-	-	-	-
Max I *	60	25	60	25
Yellow	3.9	3.1	3.9	3.1
Red Clear	2.2	2.9	2.2	2.9
Red Revert	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-
Seconds / Actuation *	-	-	-	-
Max Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Locking Detector	-	-	-	-
Recall Position	MAX RECALL	MAX RECALL	MAX RECALL	MAX RECALL
Dual Entry	-	X	-	X
Simultaneous Gap	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:
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NC 274 (Broad Street) at Second Avenue

Division 12 Gaston County Gastonia

PLAN DATE: May 2021 REVIEWED BY: SL Phillips
PREPARED BY: DM Curri REVIEWED BY: KP Baumann

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Seal of North Carolina Professional Engineer
K. P. BAUMANN
ENGINEER
044434

3/11/2022

SIG. INVENTORY NO. 12-0102

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