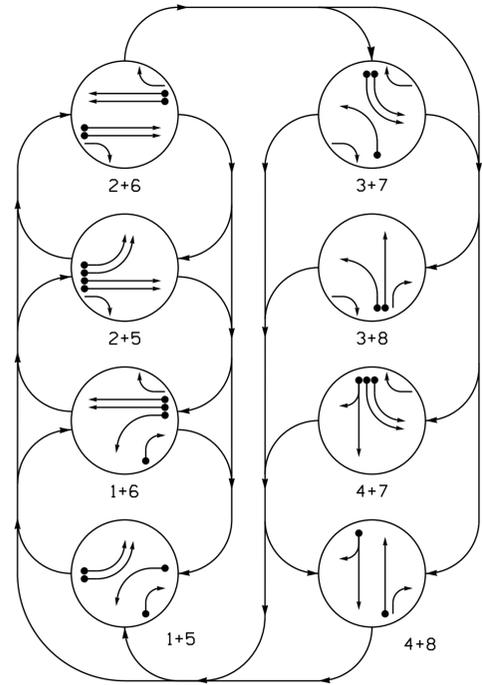


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

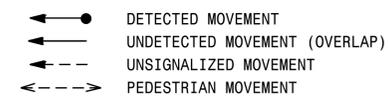
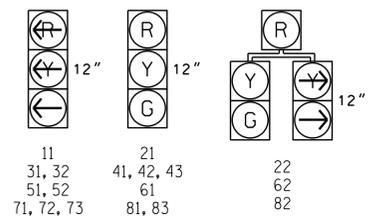


TABLE OF OPERATION

SIGNAL FACE	PHASE							
	1+5	1+6	2+5	2+6	3+7	3+8	4+7	4+8
11	←	←	←	←	←	←	←	←
21	R	R	G	G	R	R	R	Y
22	R	R	G	G	R	R	R	Y
31, 32	←	←	←	←	←	←	←	←
41, 42, 43	R	R	R	R	R	R	G	G
51, 52	←	←	←	←	←	←	←	←
61	R	G	R	G	R	R	R	Y
62	R	G	R	G	R	R	R	Y
71, 72, 73	←	←	←	←	←	←	←	←
81, 83	R	R	R	R	R	G	R	G
82	R	R	R	R	R	G	R	G

SIGNAL FACE I.D.

All Heads L.E.D.



SE-PAC 2070 LOOP & DETECTOR UNIT INSTALLATION CHART

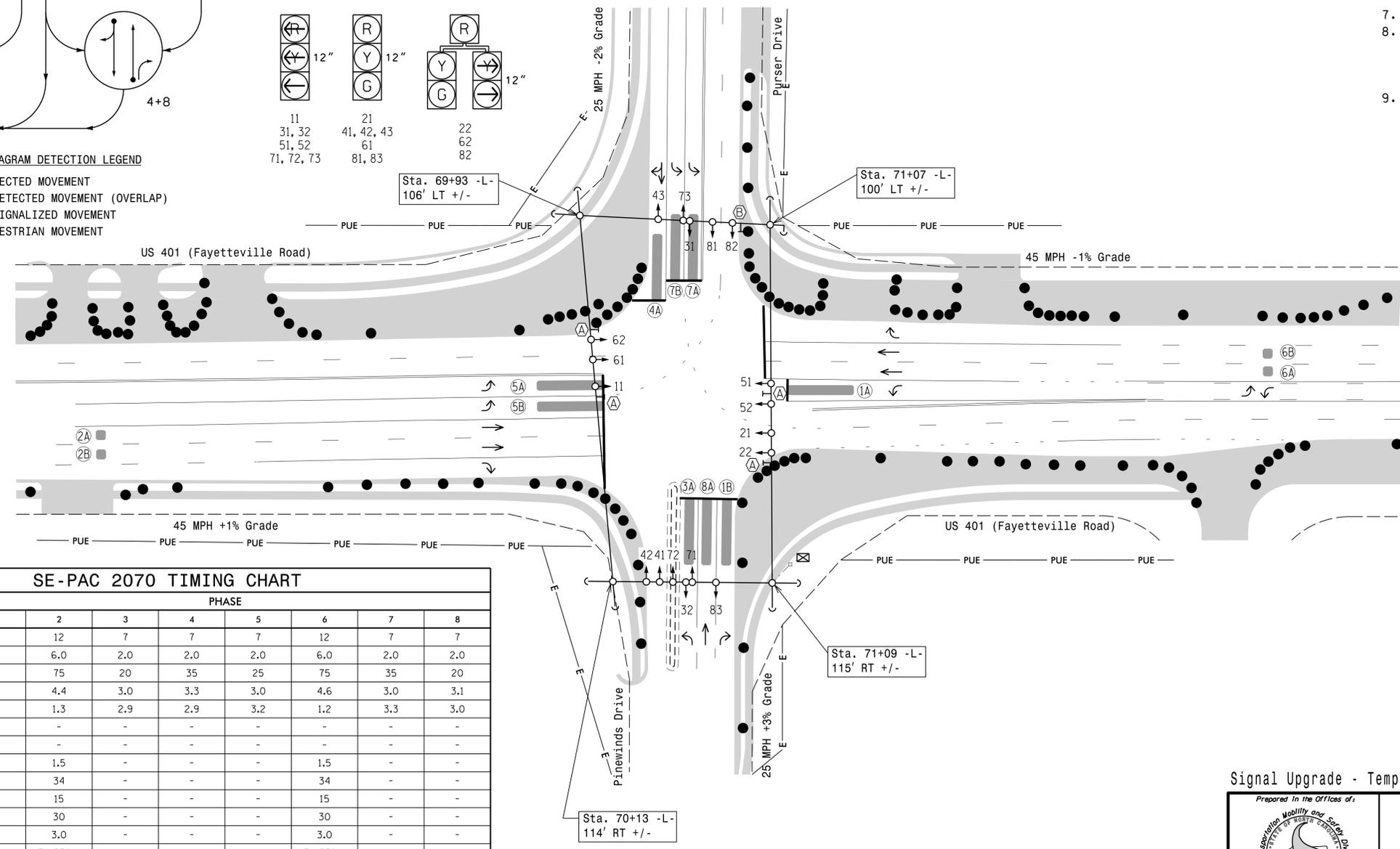
ZONE	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW	EXISTING	ASSIGNED PHASE	DETECTOR PROGRAMMING													
							TIMING		OPERATION MODE										STATUS	
							DELAY	EXTEND (STRETCH)	VEHICLE	PEDESTRIAN	1 CALL	STOP A	STOP B	PROTECTOR	PROTECTOR THROUGH	AND	SWITCH	SYSTEM LOOPS	NEW	EXISTING
1A	6X40	*	0	X	-	1	3.0 SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
1B	6X40	*	0	X	-	1	15.0 SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
2A	6X6	*	300	X	-	2	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
2B	6X6	*	300	X	-	2	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
3A	6X40	*	0	X	-	3	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
4A	6X40	*	0	X	-	4	10.0 SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
5A	6X40	*	0	X	-	5	3.0 SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
5B	6X40	*	0	X	-	5	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
6A	6X6	*	300	X	-	6	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
6B	6X6	*	300	X	-	6	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
7A	6X40	*	0	X	-	7	3.0 SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
7B	6X40	*	0	X	-	7	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
8A	6X40	*	0	X	-	8	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-

* Non-intrusive detection zone.

8 Phase Fully Actuated (Raleigh Signal System)

NOTES

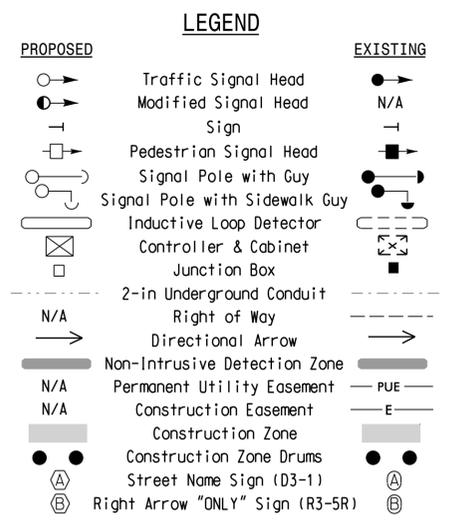
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- 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.
- This intersection uses non-intrusive detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



SE-PAC 2070 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	12	7	7	7	12	7	7
Passage Gap *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Maximum Green *	25	75	20	35	25	75	35	20
Yellow Change	3.0	4.4	3.0	3.3	3.0	4.6	3.0	3.1
Red Clear	3.2	1.3	2.9	2.9	3.2	1.2	3.3	3.0
Walk *	-	-	-	-	-	-	-	-
Pedestrian Clear	-	-	-	-	-	-	-	-
Added Initial *	-	1.5	-	-	-	1.5	-	-
Maximum 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	NON-LOCK	LOCK	NON-LOCK	NON-LOCK	NON-LOCK	LOCK	NON-LOCK	NON-LOCK
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	ON	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.



Signal Upgrade - Temporary Design 1 (TMP Phases I & II)

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 401 (Fayetteville Road)
at
Purser Drive and Pinewinds Drive

Division 5 Wake County Raleigh

PLAN DATE: February 2025 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

REVISIONS

NO.	DATE	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

03/27/2025

SIG. INVENTORY NO. 05-11741

27-MAR-2025 07:38 #40214818010148Groups-TECCO\ITS\SSU\ITS_Signal\Seal\Central_Regional\01_V_Sig_5302*2025_Update\05117411...s1g.dsn_2025mdd.dgn JAL:ort