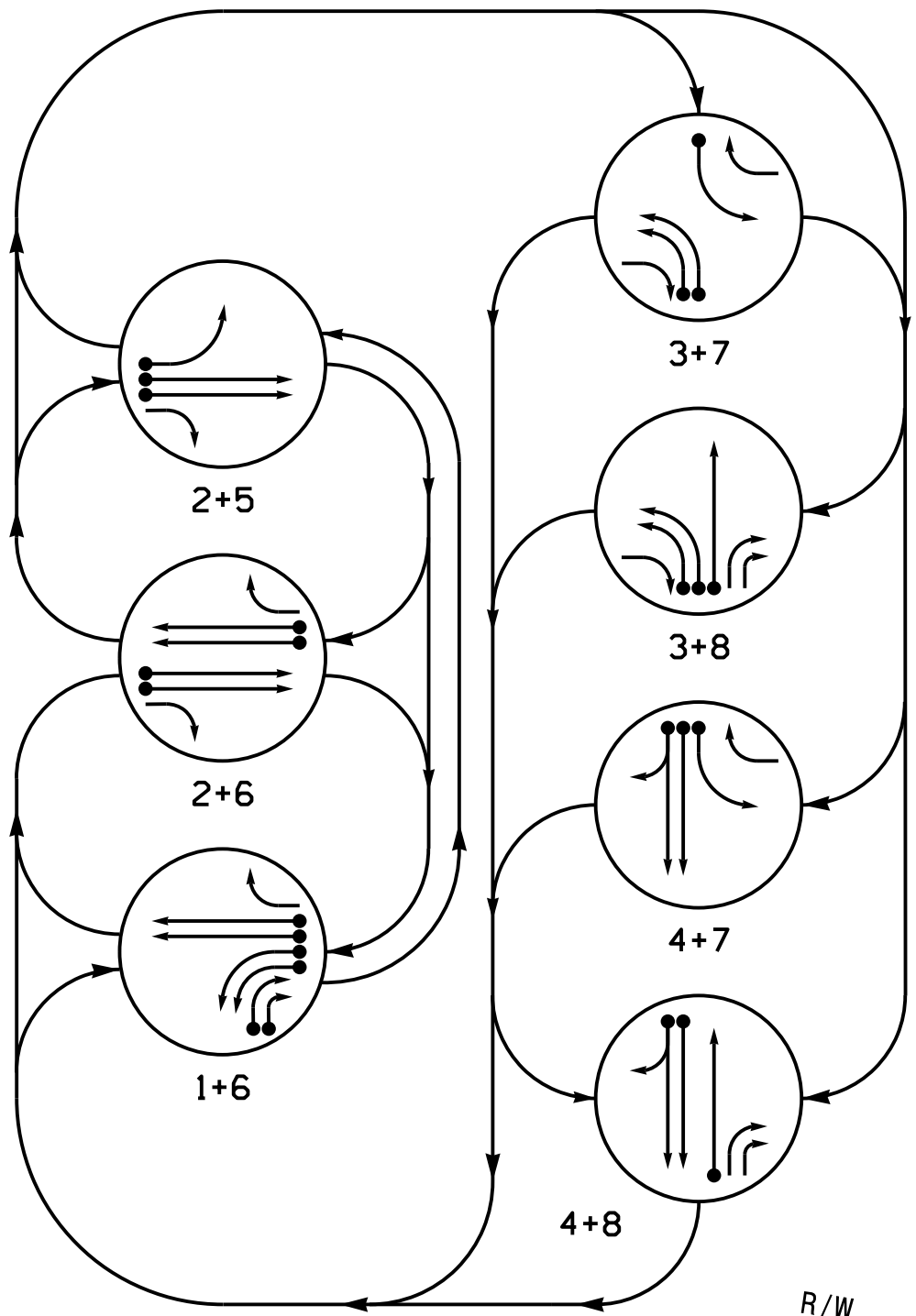


PHASING DIAGRAM



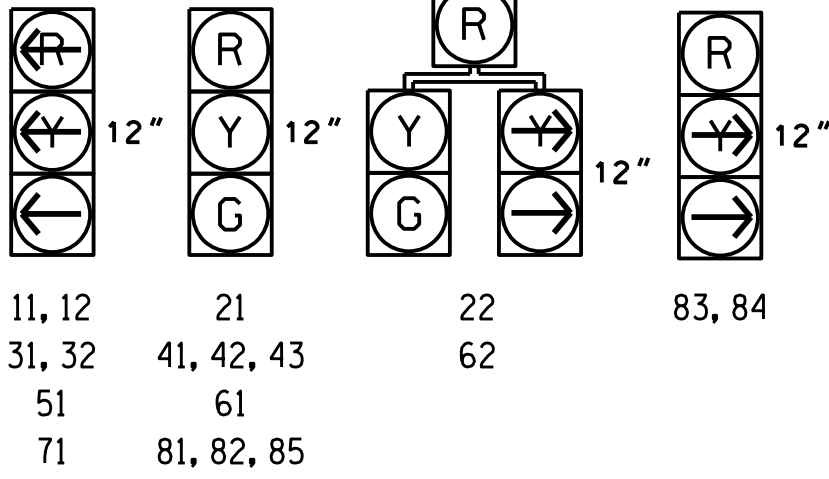
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE							
	1 + 6	2 + 6	2 + 5	3 + 7	3 + 8	4 + 7	4 + 8	FLASH
11, 12	—	—	—	—	—	—	—	—
21	R	G	G	R	R	R	R	R
22	R	G	G	R	R	R	R	R
31, 32	—	—	—	—	—	—	—	—
41, 42, 43	R	R	R	R	R	G	G	R
51	—	—	—	—	—	—	—	—
61	G	G	R	R	R	R	R	R
62	G	G	R	R	R	R	R	R
71	—	—	—	—	—	—	—	—
81, 82, 85	R	R	R	R	G	R	G	R
83, 84	—	R	R	R	—	—	—	—

SIGNAL FACE I.D.

All Heads L.E.D.

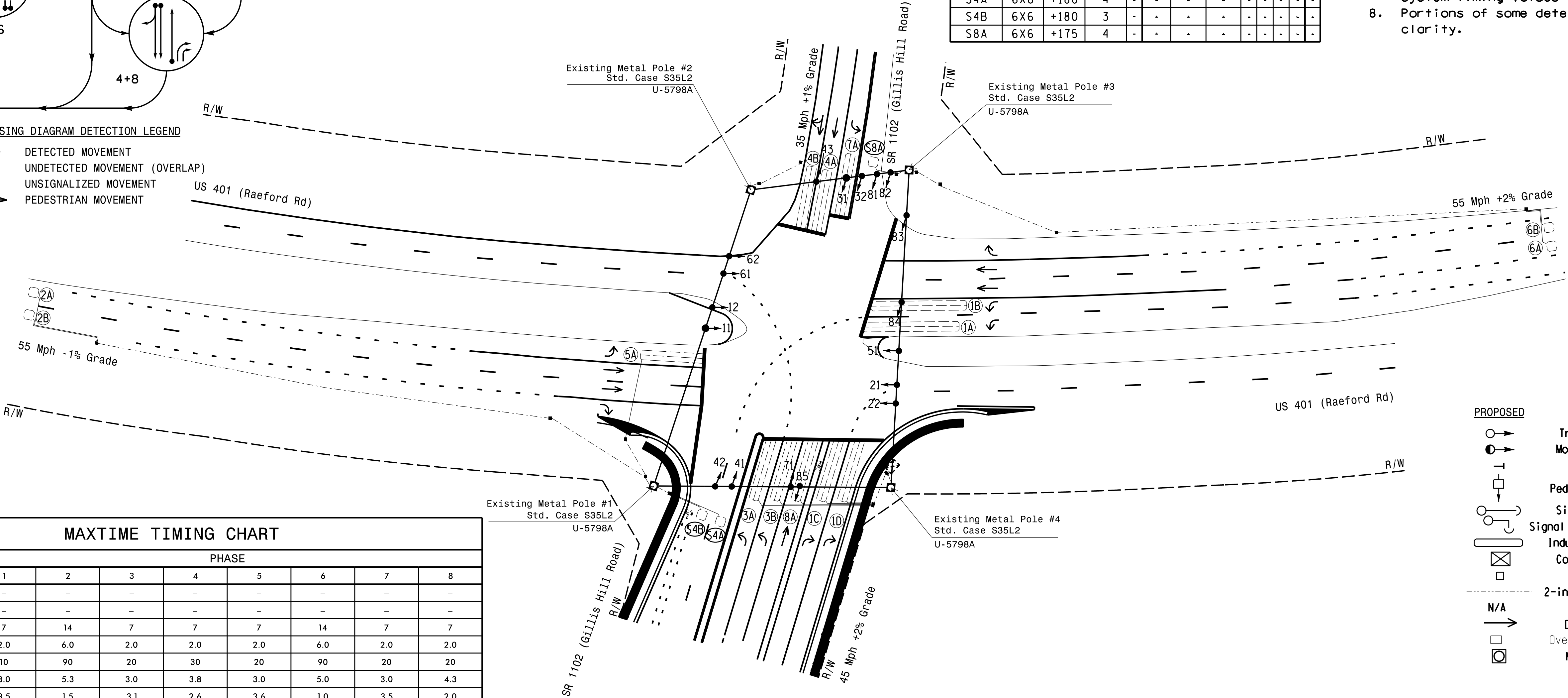


MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURN	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A	6X60	0	2-4-2	-	1	-	-	X	-	X	-
1B	6X60	0	2-4-2	-	1	-	-	X	-	X	-
1C	6X40	0	2-4-2	-	1	15	-	X	-	X	-
1D	6X40	0	2-4-2	-	1	15	-	X	-	X	-
2A	6X6	420	6	-	2	-	-	X	X	X	-
2B	6X6	420	6	-	2	-	-	X	X	X	-
3A	6X40	0	2-4-2	-	3	-	-	X	-	X	-
3B	6X40	0	2-4-2	-	3	-	-	X	-	X	-
4A	6X40	0	2-4-2	-	4	-	-	X	-	X	-
4B	6X40	0	2-4-2	-	4	10	-	X	-	X	-
5A	6X40	0	2-4-2	-	5	-	-	X	-	X	-
6A	6X6	420	6	-	6	-	-	X	X	X	-
6B	6X6	420	6	-	6	-	-	X	X	X	-
7A	6X40	0	2-4-2	-	7	3	-	X	-	X	-
8A	6X40	0	2-4-2	-	8	-	-	X	-	X	-
S4A	6X6	+180	4	-	-	-	-	-	-	-	-
S4B	6X6	+180	3	-	-	-	-	-	-	-	-
S8A	6X6	+175	4	-	-	-	-	-	-	-	-

7 Phase
Fully Actuated
Fayetteville 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 3 and/or phase 7 may be lagged.
- The order of phase 1 and phase 5 may be reversed, but phase 1 and phase 5 shall not operate simultaneously.
- Set all detector units to presence mode.
- Install new controller in existing cabinet.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Portions of some detectors not shown for clarity.



MAXTIME TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Min Green *	7	14	7	7	7	14	7	7
Passage *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max 1 *	10	90	20	30	20	90	20	20
Yellow Change	3.0	5.3	3.0	3.8	3.0	5.0	3.0	4.3
Red Clear	3.5	1.5	3.1	2.6	3.6	1.0	3.5	2.0
Added Initial *	-	1.8	-	-	-	1.8	-	-
Maximum Initial *	-	46	-	-	-	46	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	45	-	-	-	45	-	-
Minimum Gap	-	3.4	-	-	-	3.4	-	-
Advance Walk	-	-	-	-	-	-	-	-
Non Lock Detector	X	-	X	X	X	-	X	X
Vehicle Recall	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Dual Entry	-	-	-	X	-	-	-	X

* These values may be field adjusted. Do not adjust Min Green and Passage 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 |
|-------------------------------|----------|
| Traffic Signal Head | N/A |
| Modified Signal Head | N/A |
| Sign | N/A |
| Pedestrian Signal Head | N/A |
| Signal Pole with Guy | N/A |
| Signal Pole with Sidewalk Guy | N/A |
| Inductive Loop Detector | N/A |
| Controller & Cabinet | N/A |
| Junction Box | N/A |
| 2-in Underground Conduit | N/A |
| Right of Way | N/A |
| Directional Arrow | N/A |
| Oversized Junction Box | N/A |
| Metal Strain Pole | N/A |

Signal Upgrade

Prepared For the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27526

US 401 (S Raeford Road)
at
SR 1102 (Gillis Hill Road)
Division 6 Cumberland County Fayetteville

PLAN DATE: June 2025 REVIEWED BY: S.G. Haynie

PREPARED BY: G.M. Moreau REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

Steven G. Haynie 6/12/2025

SIGNATURE DATE

SIG. INVENTORY NO. 06-0849

RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
(919) 926-4100