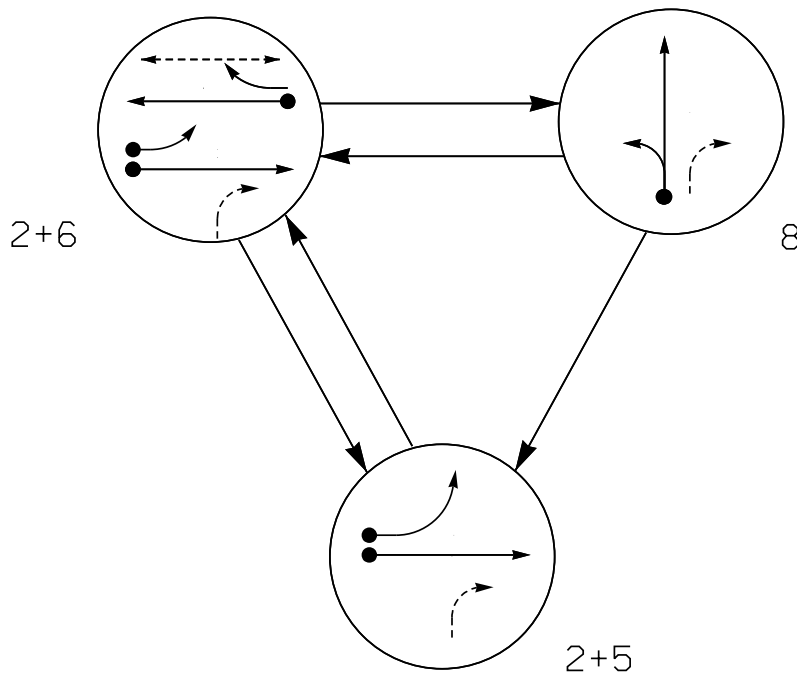


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE			
	2 + 5	2 + 6	8	FLASH
21	G	G	R	R
22	↑	↑	R	R
51	←	←	←	←
61	R	↑	R	R
62	R	G	R	R
63	R	←	R	R
81, 82, 83	R	R	G	R
P61, P62	DW	W	DW	DRK

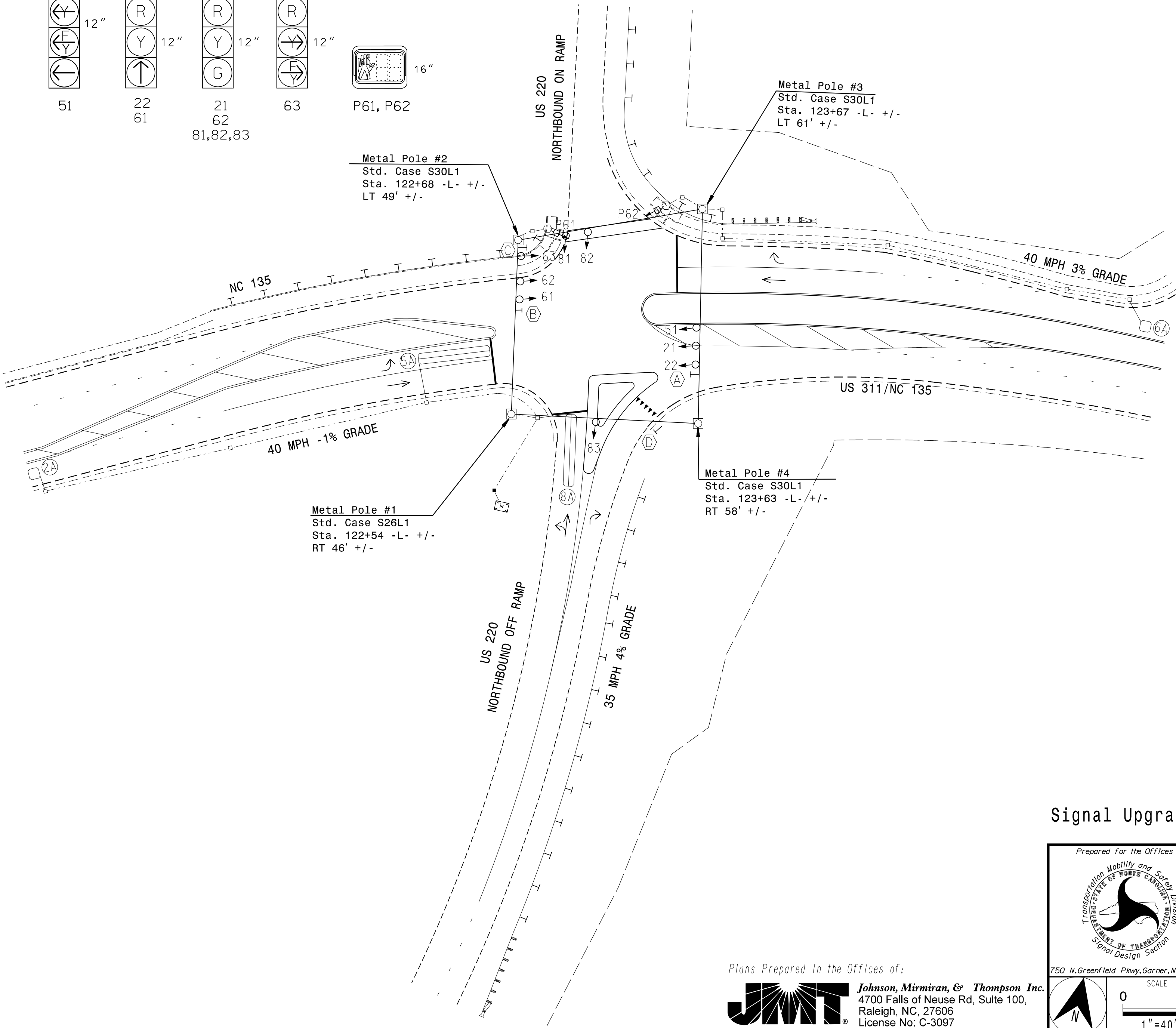
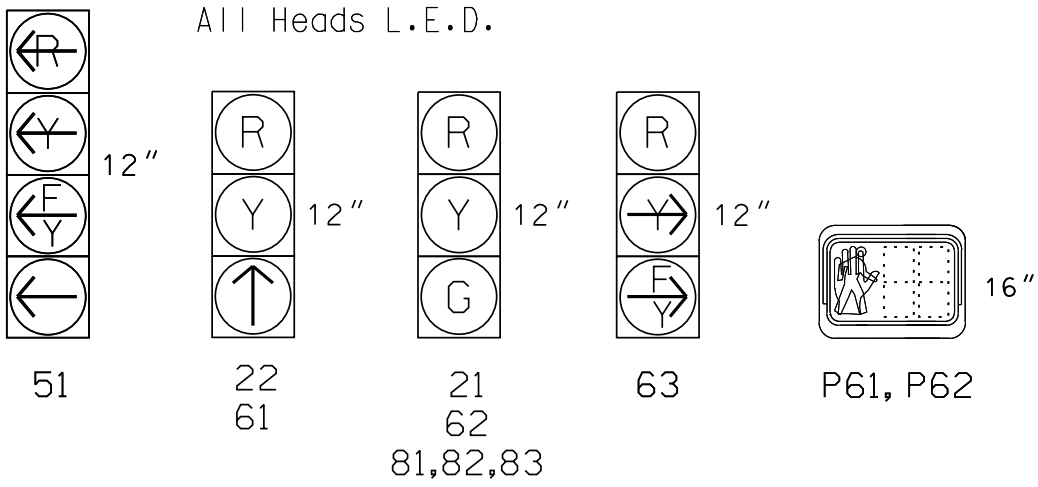
MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
2A	6X6	250	5	X	2	-	-	X	X	X	-
5A	6X40	0	2-4-2	X	5	15.0	-	X	-	X	-
6A	6X6	250	6	X	6	-	-	X	X	X	-
8A	6X40	0	2-4-2	X	8	-	-	X	-	X	-

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 5 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- To provide a leading pedestrian interval phase 6, program FYA heads numbered 51 and 63 to delay for 7 seconds after the start of the phase 6 walk interval. See Electrical Details for programming.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

SIGNAL FACE I.D.



LEGEND

PROPOSED	EXISTING

MAXTIME TIMING CHART

FEATURE	PHASE			
	2	5	6	8
Walk *	-	-	14	-
Ped Clear	-	-	11	-
Min Green *	12	7	12	7
Passage *	6.0	2.0	6.0	2.0
Max 1 *	90	20	90	40
Yellow Change	4.1	3.0	4.1	3.6
Red Clear	1.9	2.8	1.9	2.0
Added Initial *	2.5	-	2.5	-
Maximum Initial *	30	-	30	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	30	-	30	-
Minimum Gap	3.0	-	3.0	-
Advance Walk	-	-	**	-
Non Lock Detector	-	X	-	X
Vehicle Recall	MIN RECALL	-	MIN RECALL	-
Dual Entry	-	-	-	-

* 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.

* See Note 7.

Signal Upgrade - Final Design

	US 311 /NC 135 at US 220 Northbound Ramps		
	Division 7	Rockingham County	
PLAN DATE: June 2025	REVIEWED BY: Golam Moynuddin	SIGNED BY: Golam Moynuddin	
PREPARED BY: Jamal Khdeir	REVIEWED BY:	INITIALS	DATE
REVISIONS		DATE	
0 SCALE 1"=40'		6/27/2025	
750 N. Greenfield Pkwy, Garner, NC 27529		SIC. INVENTORY NO. 07-1417	

Plans Prepared in the Offices of:



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