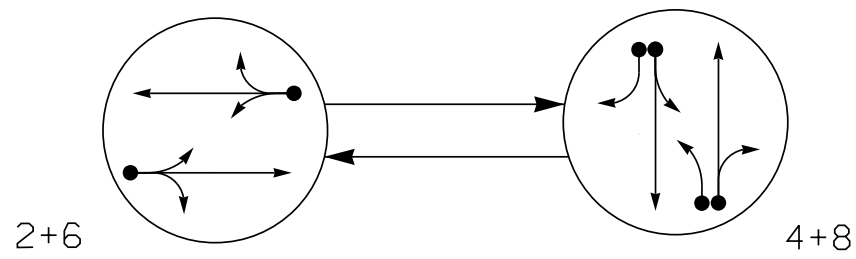


PHASING DIAGRAM



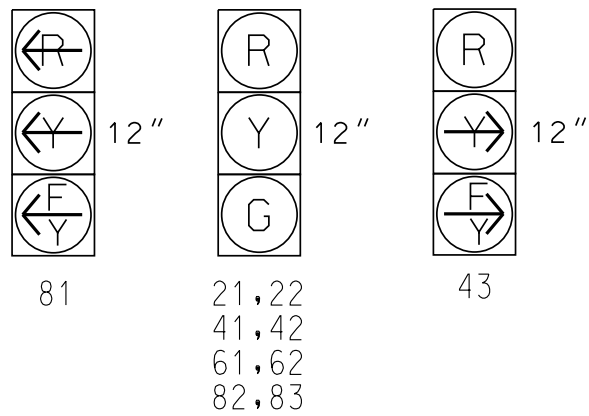
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE		
	2 + 6	4 + 8	F L A S H
21,22	G	R	R
41,42	R	G	R
43	R	F	R
61,62	G	R	R
81	R	F	R
82,83	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

DETECTOR				PROGRAMMING						
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DURING GREEN
2A*	6X6	70	*	*	2	-	-	X	-	X
4A*	6X40	0	*	*	4	3.0	-	X	-	X
4B*	6X40	0	*	*	4	15.0	-	X	-	X
6A*	6X6	70	*	*	6	-	-	X	-	X
8A*	6X40	0	*	-	8	3.0	-	X	-	X
8B*	6X40	0	*	-	8	10.0	-	X	-	X

*Video Detection Zone

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.
- Reposition existing signalheads numbered 21, 22, 41, 61, and 62.
- Set alldetector units to presence mode.
- This intersection uses video 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.

MAXTIME TIMING CHART

FEATURE	PHASE			
	2	4	6	8
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Min Green *	10	7	10	7
Passage *	3.0	2.0	3.0	2.0
Max 1 *	60	30	60	30
Yellow Change	3.8	3.8	3.8	3.8
Red Clear	1.7	1.6	1.7	1.6
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Advance Walk	-	-	-	-
Non Lock Detector	-	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
- Modified Signal Head
- Sign
- Pedestrian Signal Head
- Signal Pole with Guy
- Signal Pole with Sidewalk Guy
- Inductive Loop Detector
- Controller & Cabinet
- Junction Box
- 2-in Underground Conduit
- Right of Way
- Directional Arrow
- Non-Intrusive Detection Zone
- Construction Zone Drums
- Construction Zone

Signal Upgrade - Temporary Design 2
(TMP Phase IV - Step 1)

Prepared for the Offices of:

Transportation Mobility and Safety Division
UNIVERSITY OF NORTH CAROLINA
SCHOOL OF TRANSPORTATION
Signal Design Section

750 N. Greenfield Pkwy, Garner, NC 27529

US 311 / NC 135
at
SR 2271 (Shakey Road) and
SR 2283 (Commerce Drive)
Mayodan

Division 7 Rockingham County

PLAN DATE: June 2025 REVIEWED BY: Golam Moynuddin

PREPARED BY: Jamal Khdeir REVIEWED BY:

REVISIONS

INIT. DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

PROFESSIONAL
ENGINEER
JAMAL M. MOYNUDDIN

Signed by: Golam Moynuddin
6/27/2025

SIG. INVENTORY NO. 07-2075 T2