

5 Phase
Fully Actuated
(NC 135 CLS)
Signal System #: D07-09_Mayodan

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 land/or phase 5 may be lagged.
- Reposition existing signalheads numbered 21, 22, 61, and 62.
- Set alldetector units to presence mode.
- This intersection uses video detection. Install detectors according to the manufacturer's instruction 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.

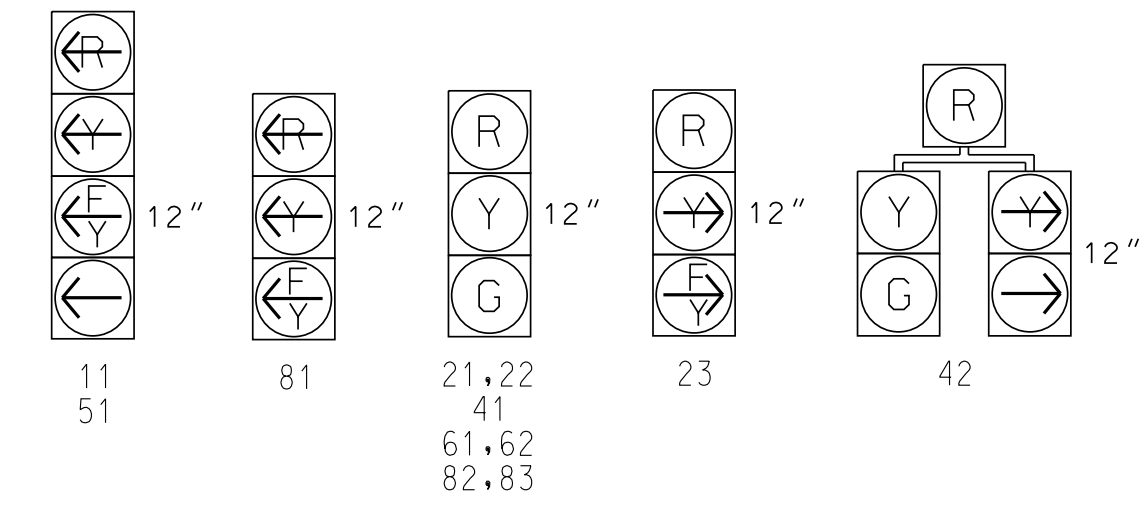
MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR					PROGRAMMING						
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A*	6X40	0	*	*	1	15.0	-	X	-	X	*
					6	-	-	X	-	X	*
2A*	6X6	70	*	*	2	-	-	X	-	X	-
4A*	6X40	0	*	-	4	3.0	-	X	-	X	-
5A*	6X40	0	*	*	5	15.0	-	X	-	X	*
					2	-	-	X	-	X	*
5B*	6X40	0	*	-	5	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

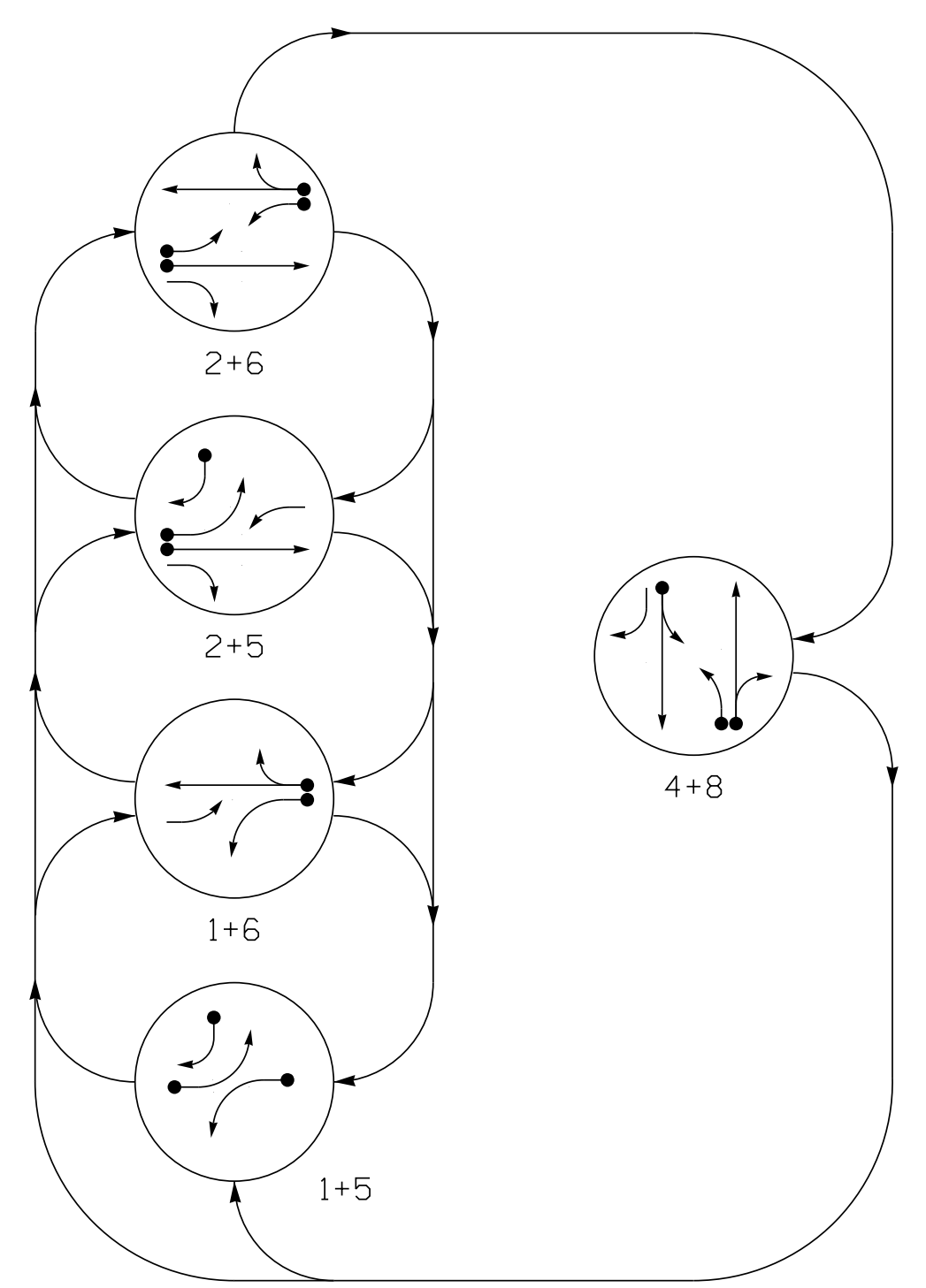
TABLE OF OPERATION						
SIGNAL FACE	PHASE					
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 8	FLASH
11	←	←	←	←	←	←
21,22	R	R	G	G	R	R
23	R	R	←	←	R	R
41	←	←	R	R	G	R
42	←	←	←	←	R	G
51	←	←	←	←	←	←
61,62	R	G	R	G	R	R
81	←	←	←	←	←	←
82,83	R	R	R	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



PHASING DIAGRAM



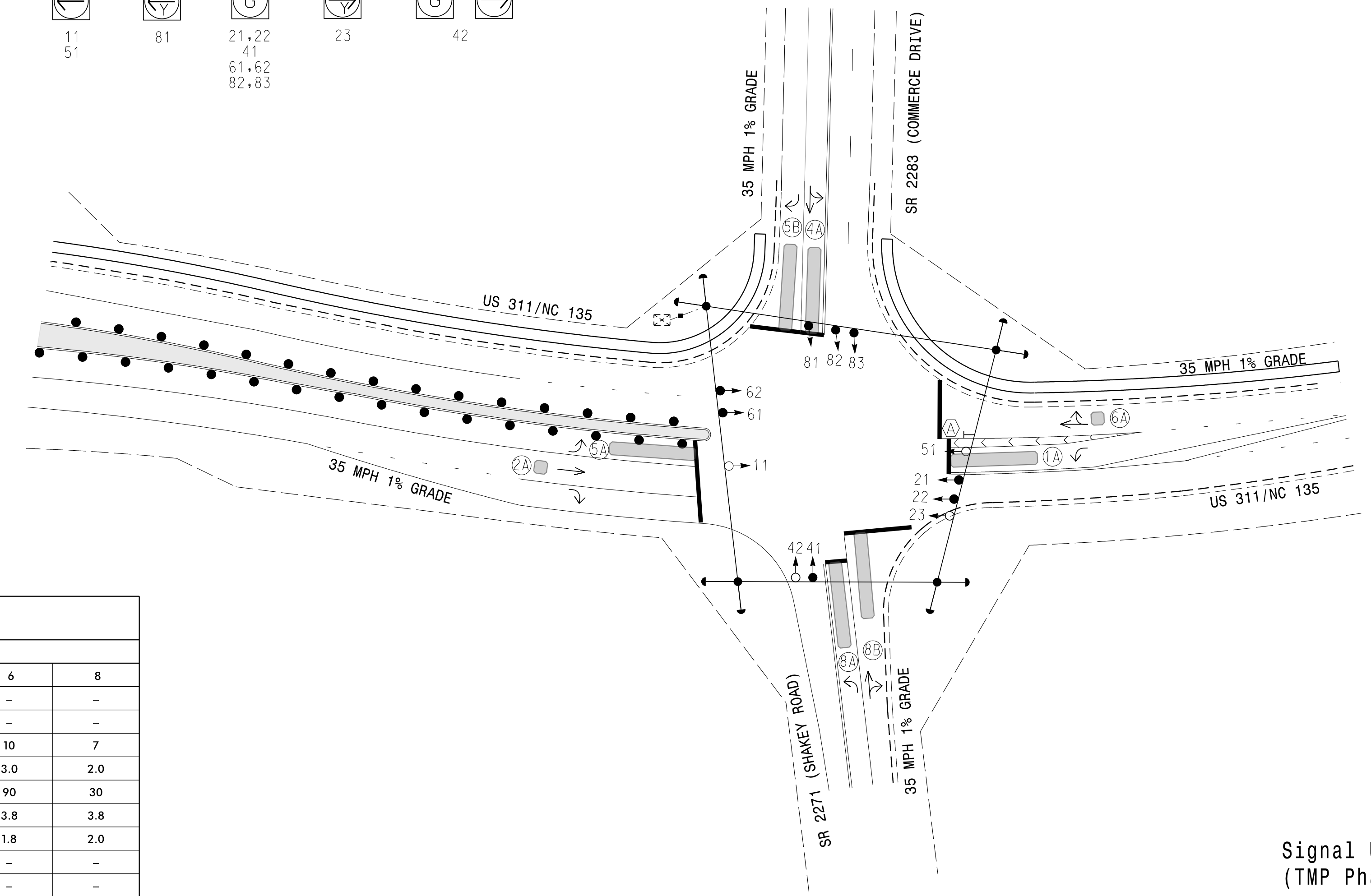
PHASING DIAGRAM DETECTION LEGEND

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

MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Min Green *	7	10	7	7	10	7
Passage *	2.0	3.0	2.0	2.0	3.0	2.0
Max I *	20	90	30	20	90	30
Yellow Change	3.0	3.8	3.8	3.0	3.8	3.8
Red Clear	2.6	1.8	2.0	2.4	1.8	2.0
Added Initial *	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Advance Walk	-	-	-	-	-	-
Non Lock Detector	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

Signal Upgrade - Temporary Design 3
(TMP Phase IV - Step 2)

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 311 / NC 135
at
SR 2271 (Shakey Road) and
SR 2283 (Commerce Drive)
Division 7 Rockingham County Mayodan

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

Signed by: 6/27/2025
92897C887EDMEC
SIGNATURE DATE
SIG. INVENTORY NO. 07-2075 T3

Plans Prepared in the Offices of:

Johnson, Mirmiran, & Thompson Inc.
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC, 27606
License No: C-3097

0 SCALE 40
1"=40'