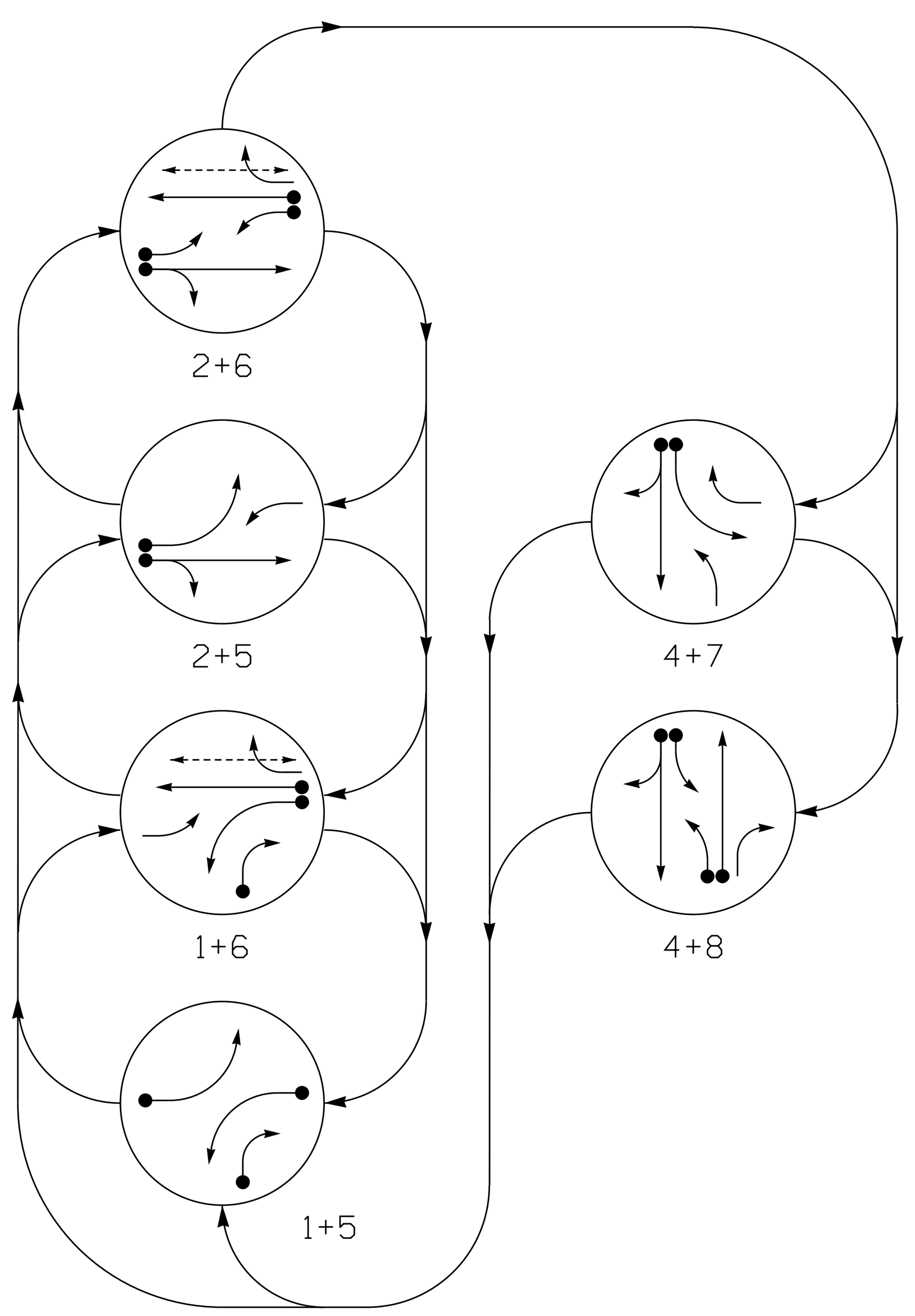
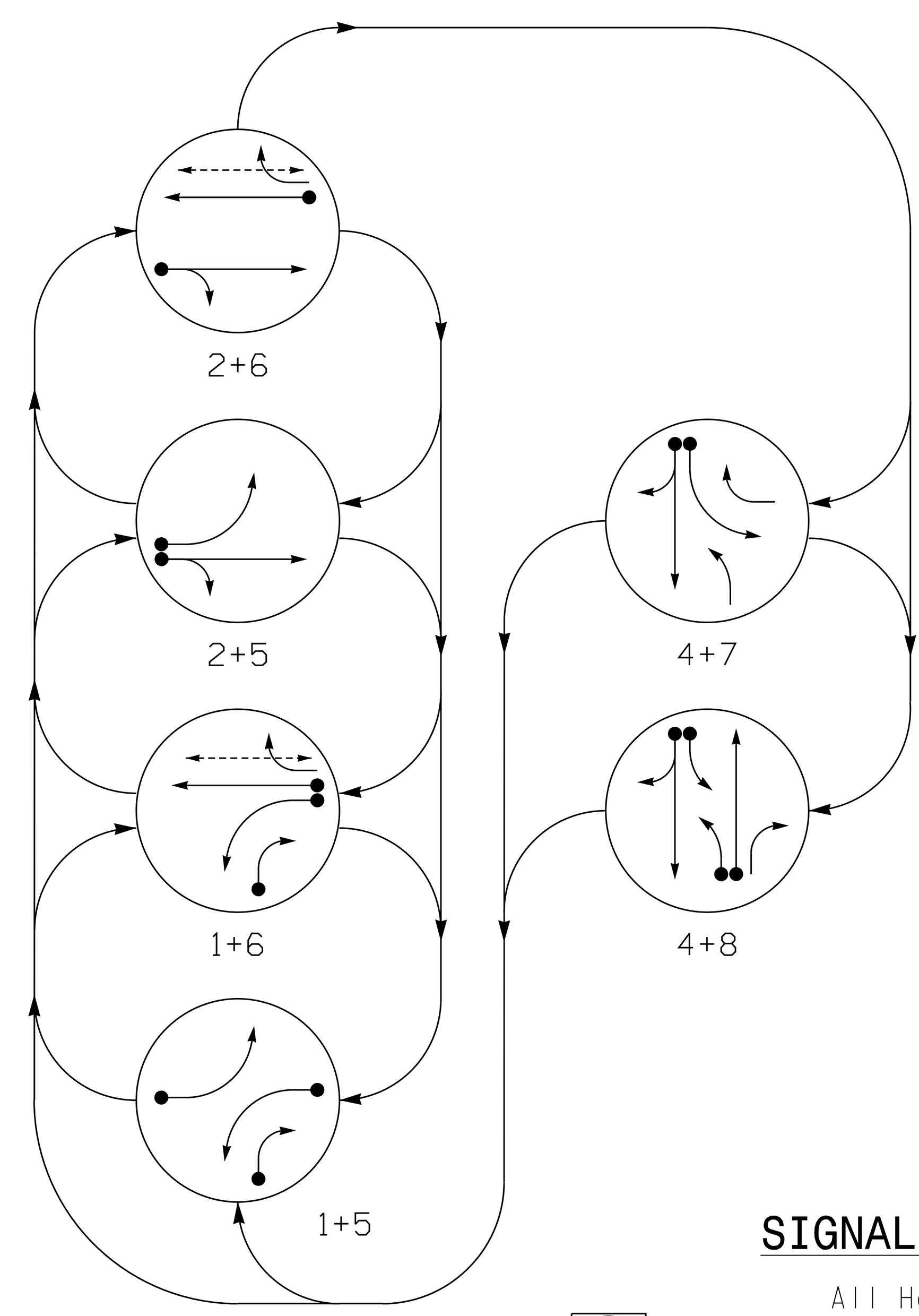
PROJECT REFERENCE NO.	SHEET NO.
I-5898	Sig. 6.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 1+5	1+6	2+5	2+6	4+7	4+8	FLASH
11	←	←	←F/Y	←F/Y	←R	←R	←R
21,22	R	R	G	G	R	R	R
41,42	R	R	R	R	G	G	R
51	←	←F/Y	←	←F/Y	←R	←R	←R
61	R	G	R	G	R	R	R
62	R	G	R	G	R/→	R	R
71	←R	←R	←R	←R	←	←F/Y	←R
81	←R	←R	←R	←R	←F/Y	←F/Y	←R
82	R	R	R	R	R	G	R
83	R/→	R/→	R	R	R	G	R
P61,P62	DW	W	DW	W	DW	DW	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 1+5	1+6	2+5	2+6	4+7	4+8	FLASH
11	←	←	←R	←R	←R	←R	←R
21,22	R	R	G	G	R	R	R
41,42	R	R	R	R	G	G	R
51	←	←R	←	←R	←R	←R	←R
61	R	G	R	G	R	R	R
62	R	G	R	G	R/→	R	R
71	←R	←R	←R	←R	←	←F/Y	←R
81	←R	←R	←R	←R	←F/Y	←F/Y	←R
82	R	R	R	R	R	G	R
83	R/→	R/→	R	R	R	G	R
P61,P62	DW	W	DW	W	DW	DW	DRK

MAXTIME DETECTOR INSTALLATION CHART

DETECTOR: LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING: CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A	6X40	0	2-4-2	-	1	15.0*	-	X	-	X	-	X
					6#	3.0	-	X	-	X	X	X
1B	6X40	0	2-4-2	-	1	15.0	-	X	-	X	-	X
2A	6X6	250	6	-	2	-	-	X	X	X	-	X
4A	6X35	+3.5	2-4-2	-	4	10.0	-	X	-	X	-	X
5A	6X40	0	2-4-2	-	5	15.0**	-	X	-	X	-	X
					2#	3.0	-	X	-	X	X	X
6A	6X6	250	4	-	6	-	-	X	X	X	-	X
7A	6X35	+3.5	2-4-2	-	7	15.0	-	X	-	X	-	X
					4	3.0	-	X	-	X	-	X
8A	6X40	0	2-4-2	-	8	3.0	-	X	-	X	-	X
8B	6X40	0	2-4-2	-	8	-	-	X	-	X	-	X

* Disable delay during alternate phasing operation.
** Reduce delay to 3 seconds during alternate phasing operation.
# Disable phase call for loop during alternate phasing operation.

6 Phase Fully Actuated (NC 135 CLS)

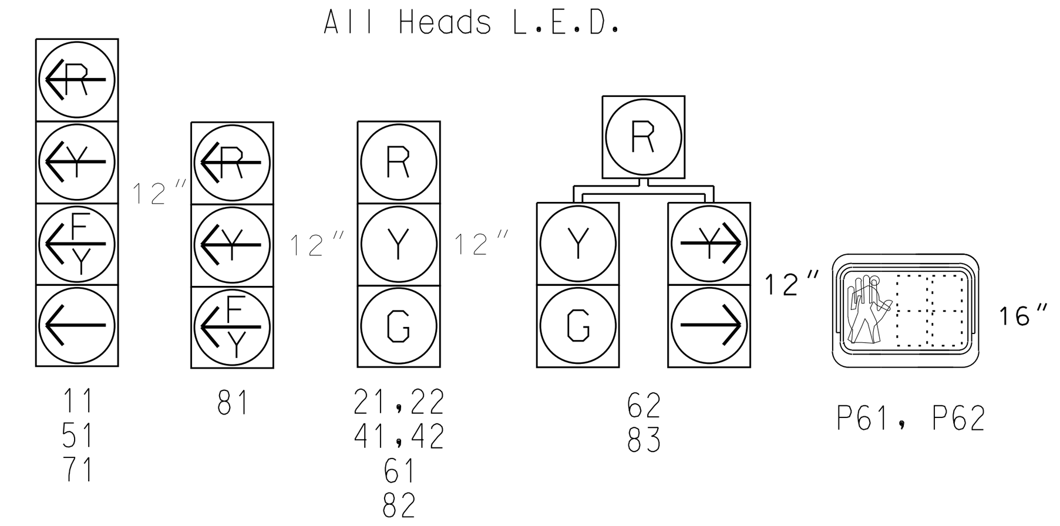
Signal System #: D07-09_Mayodan

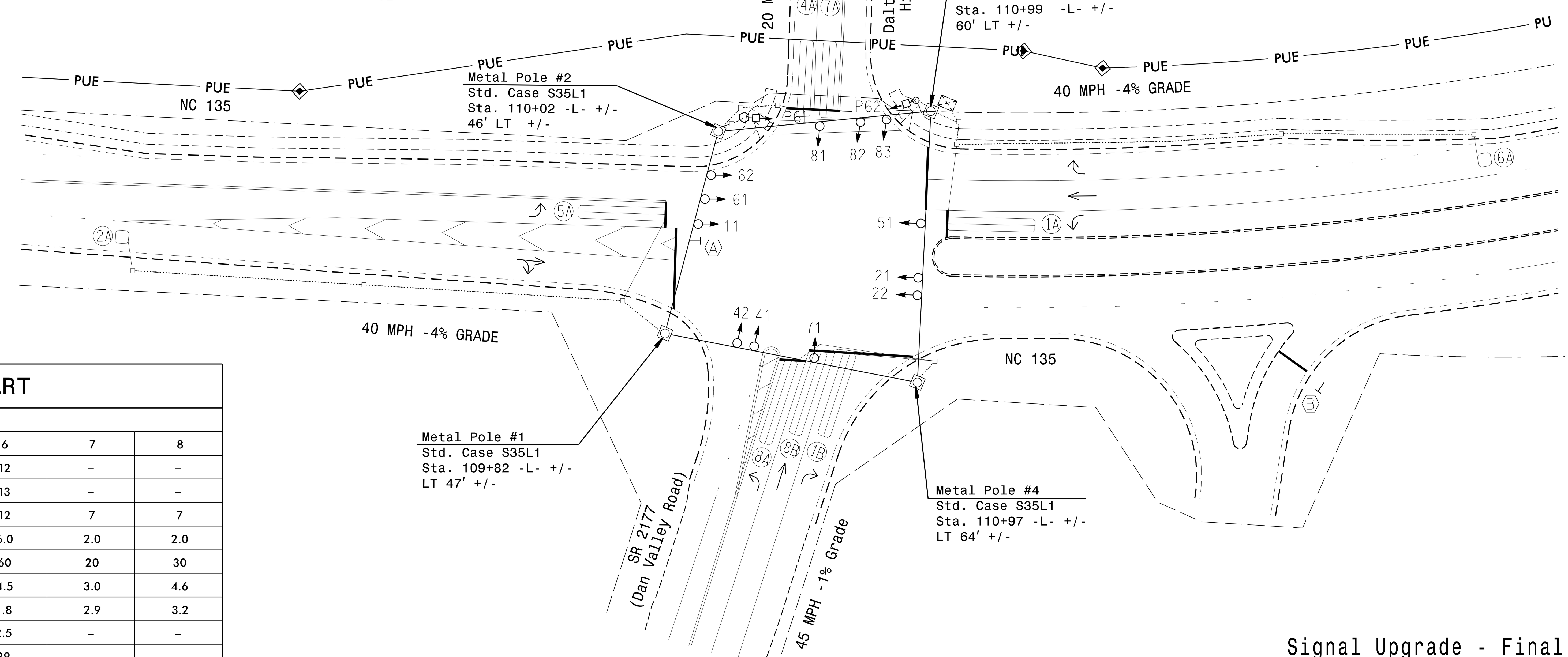
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Phase 7 may be lagged.
5. Set all detector units to presence mode.
6. Omit "Walk" and flashing "Don't Walk" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. The Division Traffic Engineer will determine the hours of use for each phasing plan.

SIGNAL FACE I.D.

All Heads L.E.D.





LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
N/A	Permanent Utility Easement	PUE
	Directional Arrow	
	Metal Signal Pole	
N/A	Curb Ramp	
	Type II Signal Pedestal	
(A)	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	(A)
(B)	"STOP" Sign (R1-1)	(B)

MAXTIME TIMING CHART

FEATURE	PHASE 1	2	4	5	6	7	8
Walk *	–	–	–	–	12	–	–
Ped Clear	–	–	–	–	13	–	–
Min Green *	7	12	7	7	12	7	7
Passage *	2.0	6.0	2.0	2.0	6.0	2.0	2.0
Max 1 *	20	60	30	20	60	20	30
Yellow Change	3.0	4.5	4.6	3.0	4.5	3.0	4.6
Red Clear	3.2	1.8	3.2	3.2	1.8	2.9	3.2
Added Initial *	–	2.5	–	–	2.5	–	–
Maximum Initial *	–	29	–	–	29	–	–
Time Before Reduction *	–	15	–	–	15	–	–
Time To Reduce *	–	30	–	–	30	–	–
Minimum Gap	–	3.0	–	–	3.0	–	–
Advance Walk	–	–	–	–	5	–	–
Non Lock Detector	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.

Plans Prepared in the Offices of:

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

Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
Transportation Mobility and Safety Division — Signal Design Section
State of North Carolina Department of Transportation
750 N.Greenfield Pkwy,Garner,NC 27529

NC 135 at SR 2177 (Dan Valley Road) and McMichael High School

Division 7 Rockingham County Mayodan

PLAN DATE: August 2025	REVIEWED BY: Golam Moinuddin
PREPARED BY: Jamal Khdeir	REVIEWED BY:

SCALE 0 40 — 1'=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 034454 ENGINEER GOLAM M. MOINUDDIN

Signed by: Golam Moinuddin
92897C8B27ED4EC...
SIGNATURE 8/1/2025 DATE

SIG. INVENTORY NO. 07-1395