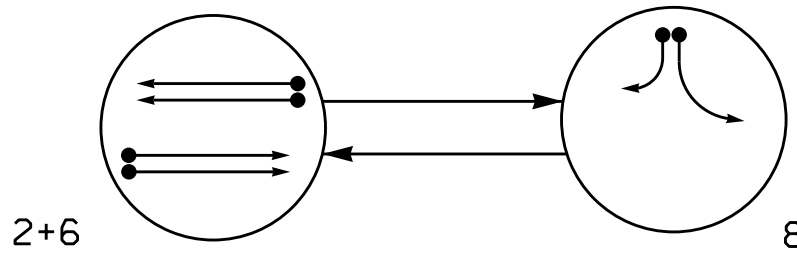


2 Phase
Fully Actuated
(Winston-Salem Signal System)

PHASING DIAGRAM



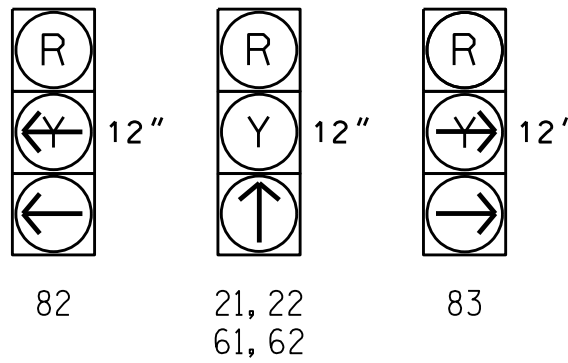
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE	
	2 + 6	8
21, 22	↑	R R
61, 62	↑	R R
82	R	← R
83	R	→ R

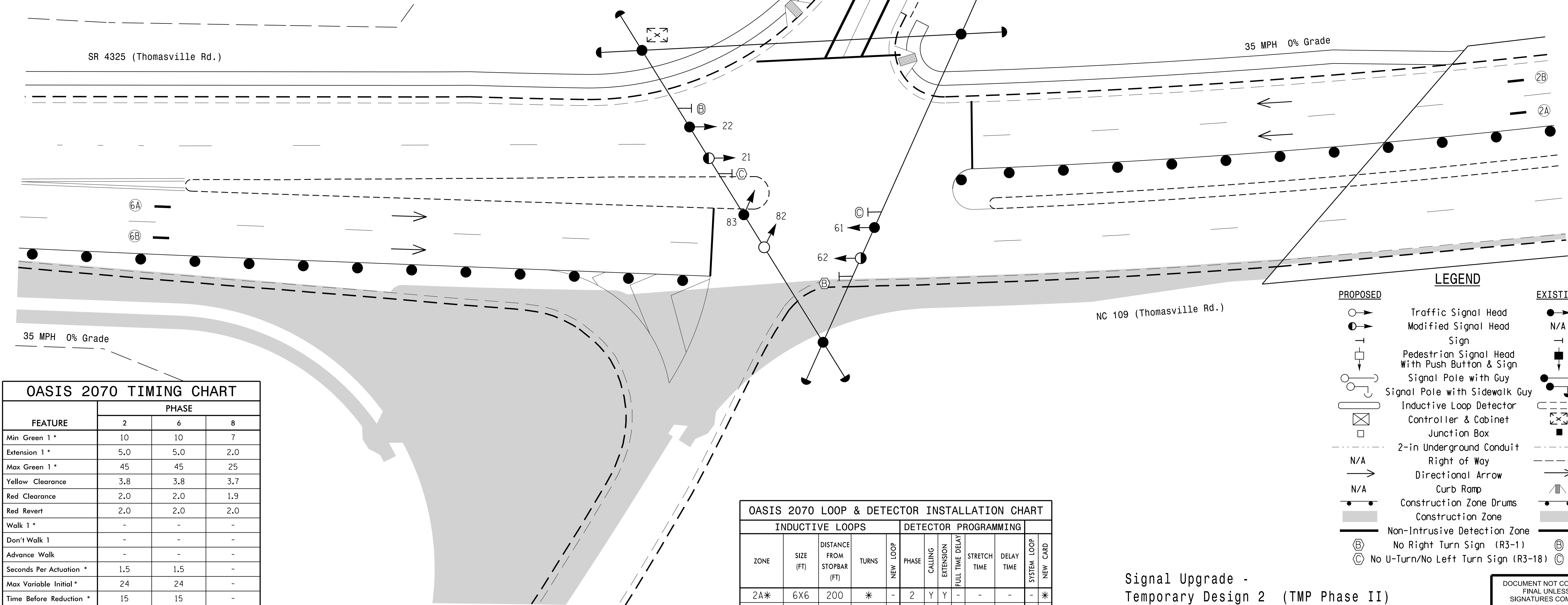
SIGNAL FACE I.D.

All Heads L.E.D.



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.
- Disconnect and bag existing signal heads 51 and 81.
- Set all detector units to presence mode.
- This intersection uses non-intrusive 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.



OASIS 2070 TIMING CHART

FEATURE	PHASE		
	2	6	8
Min Green 1 *	10	10	7
Extension 1 *	5.0	5.0	2.0
Max Green 1 *	45	45	25
Yellow Clearance	3.8	3.8	3.7
Red Clearance	2.0	2.0	1.9
Red Revert	2.0	2.0	2.0
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Advance Walk	-	-	-
Seconds Per Actuation *	1.5	1.5	-
Max Variable Initial *	24	24	-
Time Before Reduction *	15	15	-
Time To Reduce *	15	15	-
Minimum Gap	3.0	3.0	-
Recall Mode	MIN RECALL	MIN RECALL	-
Vehicle Call Memory	YELLOW	YELLOW	-
Dual Entry	-	-	-
Simultaneous Gap	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A*	6X6	200	*	-	2	Y	Y	-	-	-	-	*
2B*	6X6	200	*	-	2	Y	Y	-	-	-	-	*
6A*	6X6	200	*	-	6	Y	Y	-	-	-	-	*
6B*	6X6	200	*	-	6	Y	Y	-	-	-	-	*
8A*	6X40	0	*	-	8	Y	Y	-	-	-	-	*
8B*	6X40	0	*	-	8	Y	Y	-	-	15	-	*

* Non-Intrusive detection zone.

LEGEND

- PROPOSED: Traffic Signal Head, Modified Signal Head, Sign, Pedestrian Signal Head With Push Button & Sign, 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, Curb Ramp, Construction Zone Drums, Construction Zone, Non-Intrusive Detection Zone.
- EXISTING: N/A, N/A, N/A, N/A, N/A, N/A, N/A, N/A, N/A, N/A, N/A, N/A, N/A.

Signal Upgrade -
Temporary Design 2 (TMP Phase II)

750 N. Greenfield Pkwy, Garner, NC 27529

0 SCALE 20 1"=20'

NC 109/SR 4325 (Thomasville Road)
at
I-40 WB Ramp

Division 9 Forsyth County Winston-Salem

PLAN DATE: September 2024 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA
PROFESSIONAL ENGINEER
ROBERT J. ZIMMERMAN
026486
01/02/2025
DATE
SIG. INVENTORY NO. 09-0599T2