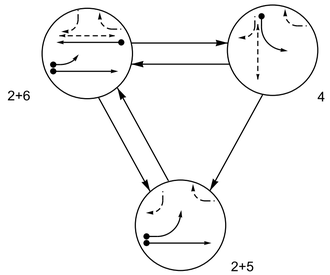
PROJECT REFERENCE NO.	SHEET NO.
BR-0168	Sig 4.0

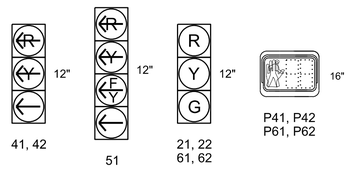
DEFAULT PHASING DIAGRAM



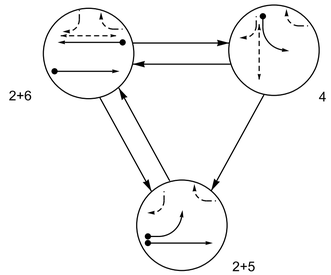
DEFAULT PHASING TABLE OF OPERATION				
SIGNAL FACE	PHASE 2+5	PHASE 2+6	PHASE 4	FLASH
21, 22	G	G	R	R
41, 42	~~R~~	~~R~~	←	~~R~~
51	←	F.Y	~~R~~	~~R~~
61, 62	R	G	R	R
P41, P42	DW	DW	W	DRK
P61, P62	DW	W	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION				
SIGNAL FACE	PHASE 2+5	PHASE 2+6	PHASE 4	FLASH
21, 22	G	G	R	R
41, 42	~~R~~	~~R~~	←	~~R~~
51	←	~~R~~	~~R~~	~~R~~
61, 62	R	G	R	R
P41, P42	DW	DW	W	DRK
P61, P62	DW	W	DW	DRK

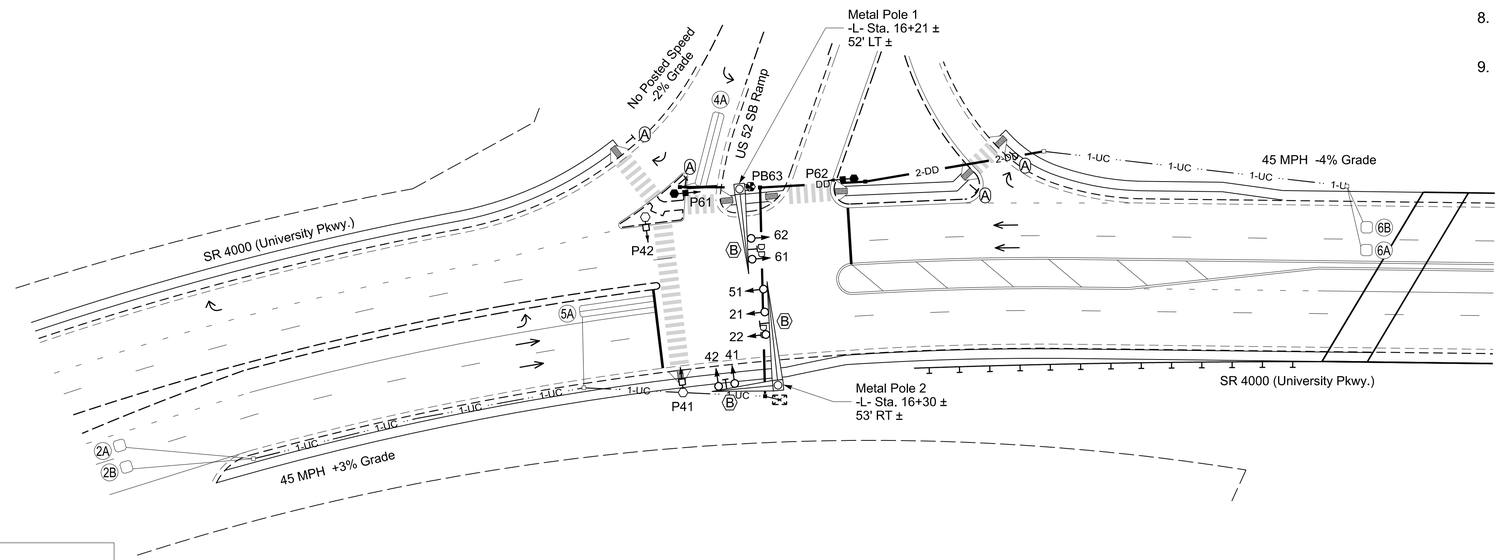
3 Phase
Fully Actuated
(Winston-Salem Signal System)

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 5 may be lagged.
4. Set all detector units to presence mode.
5. In the event of loop replacement, refer to the current TSMO Design Manual and submit a Plan of Record to the Signal Design Section.
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. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

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



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
X-UC	2-in Underground Conduit	UC
N/A	Right of Way	
	Directional Arrow	
X-DD	Directional Drill	DD
N/A	Curb Ramp	
	Metal Pole with Mastarm	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
N/A	Guardrail	
A	Pedestrian Crossing Sign (W11-2) with Diagonal Downward Arrow (W16-7P)	A
B	Street Name Sign By Others (D3-1)	B

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 5	PHASE 6
Min Green 1*	12	7	7	12
Extension 1*	6.0	2.0	2.0	6.0
Max Green 1*	90	30	20	90
Yellow Clearance	4.9	3.0	3.0	4.9
Red Clearance	1.8	3.3	3.1	1.8
Red Revert	2.0	2.0	2.0	2.0
Advance Walk	-	-	-	7
Walk 1*	-	7	-	14
Don't Walk 1	-	20	-	18
Seconds Per Actuation*	1.5	-	-	1.5
Max Variable Initial*	34	-	-	31
Time Before Reduction*	15	-	-	15
Time To Reduce*	30	-	-	30
Minimum Gap	3.0	-	-	3.0
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	ON	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							
LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	300	5	Y	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	Y
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15*	-	Y
					2#	Y	Y	Y	-	3	-	Y
6A	6X6	270	5	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	270	5	Y	6	Y	Y	-	-	-	-	Y

* Disable Delay during Alternate Phasing Operation.
\# Disable phase call for loop during Alternate Phasing Operation.

Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Offices of:
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N. Greenfield Pkwy, Garner, NC 27529

SR 4000 (Univeristy Parkway)
at
US 52 SB Ramps

Division 9 | Forsyth County | Winston-Salem

PLAN DATE: November 2025 | REVIEWED BY:
PREPARED BY: J.A. Lohr | REVIEWED BY:

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZIEMBA

DocuSigned by: Robert J. Ziemba 02/12/2026
SIGNATURE DATE

SIG. INVENTORY NO. 09-0651

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JALOHR