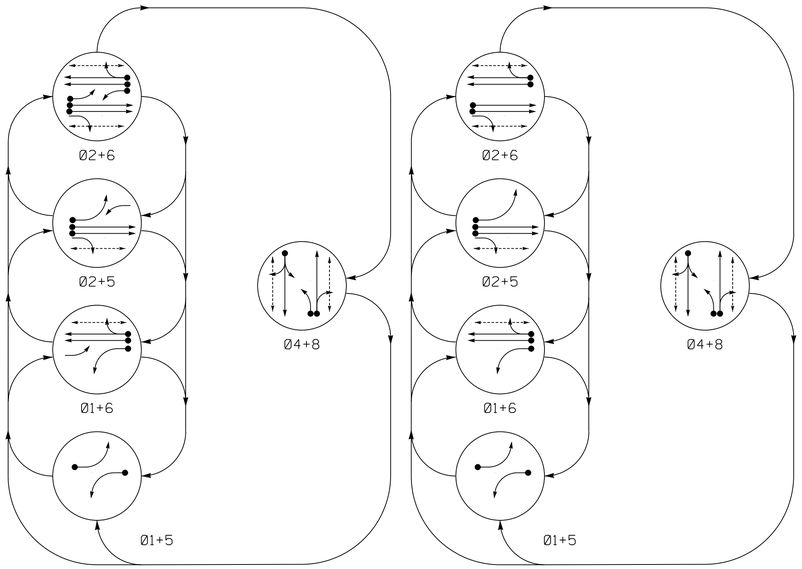
PROJECT REFERENCE NO.	SHEET NO.
P-5707	SIG. 9.0

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 01+5	01+6	02+5	02+6	04+8	FLASH
11	←	←	~~F Y~~	~~F Y~~	~~R~~	~~R~~
21,22	R	R	G	G	R	R
23	R	R	~~F Y~~	~~F Y~~	R	R
41,42	R	R	R	R	G	R
51	←	~~F Y~~	←	~~F Y~~	~~R~~	~~R~~
61,62	R	G	R	G	R	R
81	~~R~~	~~R~~	~~R~~	~~R~~	~~F Y~~	~~R~~
82,83,84	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	04+8	FLASH
11	←	←	~~R~~	~~R~~	~~R~~	~~R~~
21,22	R	R	G	G	R	R
23	R	R	~~F Y~~	~~F Y~~	R	R
41,42	R	R	R	R	G	R
51	←	~~R~~	←	~~R~~	~~R~~	~~R~~
61,62	R	G	R	G	R	R
81	~~R~~	~~R~~	~~R~~	~~R~~	~~F Y~~	~~R~~
82,83,84	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A	6X40	0	2-4-2	X	1	15.0*	-	X	-	X	-	X
				X	6#	3.0	-	X	-	X	X	X
2A	6X6	300	5	X	2	-	-	X	X	X	-	X
2B	6X6	300	5	X	2	-	-	X	X	X	-	X
4A	6X40	0	2-4-2	X	4	10.0	-	X	-	X	-	X
5A	6X40	0	2-4-2	X	5	15.0*	-	X	-	X	-	X
				X	2#	3.0	-	X	-	X	X	X
6A	6X6	300	5	X	6	-	-	X	X	X	-	X
6B	6X6	300	5	X	6	-	-	X	X	X	-	X
8A	6X40	0	2-4-2	X	8	3.0	-	X	-	X	-	X
8B	6X40	0	2-4-2	X	8	10.0	-	X	-	X	-	X

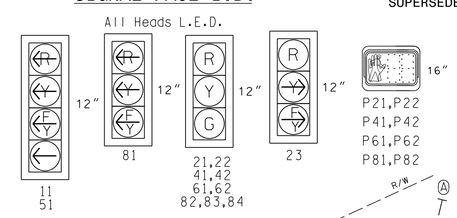
- Do not call during alternate phasing operation.
* - Reduce delay to 3 seconds during alternate phasing operation.

5 PHASE FULLY ACTUATED (WAKE FOREST 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 1 AND/OR PHASE 5 MAY BE LAGGED.
4. SET ALL DETECTOR UNITS TO PRESENCE MODE.
5. INSTALL BACKPLATES FOR ALL SIGNAL HEADS.
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. TO PROVIDE A LEADING PEDESTRIAN INTERVAL ON PHASE 2, PROGRAM FYA HEADS NUMBERED 11 AND 23 TO DELAY FOR 7 SECONDS AFTER THE START OF THE PHASE 2 WALK INTERVAL. SEE ELECTRICAL DETAILS FOR PROGRAMMING.
9. THE DIVISION TRAFFIC ENGINEER WILL DETERMINE THE HOURS OF USE FOR EACH PHASING PLAN
10. MAXIMUM TIMES SHOWN IN TIMING CHART ARE FOR FREE-RUN OPERATION ONLY. COORDINATED SIGNAL SYSTEM TIMING VALUES SUPERSEDE THESE VALUES.

SIGNAL FACE I.D.



LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
▯↓	Pedestrian Signal Head With Push Button & Sign	■↓
○	Signal Pole with Guy	●
○ ⌇	Signal Pole with Sidewalk Guy	● ⌇
▭	Inductive Loop Detector	▭
⊠	Controller & Cabinet	⊠
□	Junction Box	■

PROPOSED		EXISTING
□	Junction Box	■
.....	2-in Underground Conduit	
N/A	Right of Way	— — — —
→	Directional Arrow	→
◯	Metal Strain Pole	◘
⬡	Type II Signal Pedestal	⬢
N/A	Guardrail	⊥⊥⊥
N/A	Curb Ramp	◢
Ⓐ	"STOP" Sign (R1-1)	Ⓐ
Ⓑ	"RIGHT TURN SIGNAL" Sign (R10-10R)	Ⓑ

MAXTIME TIMING CHART

FEATURE	PHASE 1	2	4	5	6	8
Walk *	–	14	13	–	14	14
Ped Clear	–	19	20	–	8	17
Min Green	7	12	7	7	12	7
Passage *	2.0	6.0	2.0	2.0	6.0	2.0
Max 1 *	15	90	30	15	90	30
Yellow Change	3.0	4.5	3.1	3.0	4.5	3.1
Red Clear	3.1	1.8	3.2	2.9	1.8	3.2
Added Initial *	–	1.5	–	–	1.5	–
Maximum Initial *	–	34	–	–	34	–
Time Before Reduction *	–	15	–	–	15	–
Time To Reduce *	–	30	–	–	30	–
Minimum Gap	–	3.0	–	–	3.0	–
Advance Walk	–	**	6	–	7	7
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 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.
** See Note 8

SIGNAL UPGRADE - FINAL DESIGN

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
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Prepared for: Transportation Mobility and Safety Division, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE: 0 40 1"=40'

SR 2052 (ROGERS RD.) AT HERITAGE BRANCH RD. AND HERITAGE POINTE SHOPPES
DIVISION 5 WAKE COUNTY WAKE FOREST
PLAN DATE: JUNE 2026 REVIEWED BY: DT SEARS
PREPARED BY: WP JONES REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 044558 ENGINEER DAVID T SEARS

DocuSigned by: David T Sears 6/9/2026
0693A5726E67A4F...
SIGNATURE DATE

SIG. INVENTORY NO. 05-1916

6/8/2026
R:\Traffic\Signals\Designs\Signals\P5707_sig_CC.dgn
jstiff