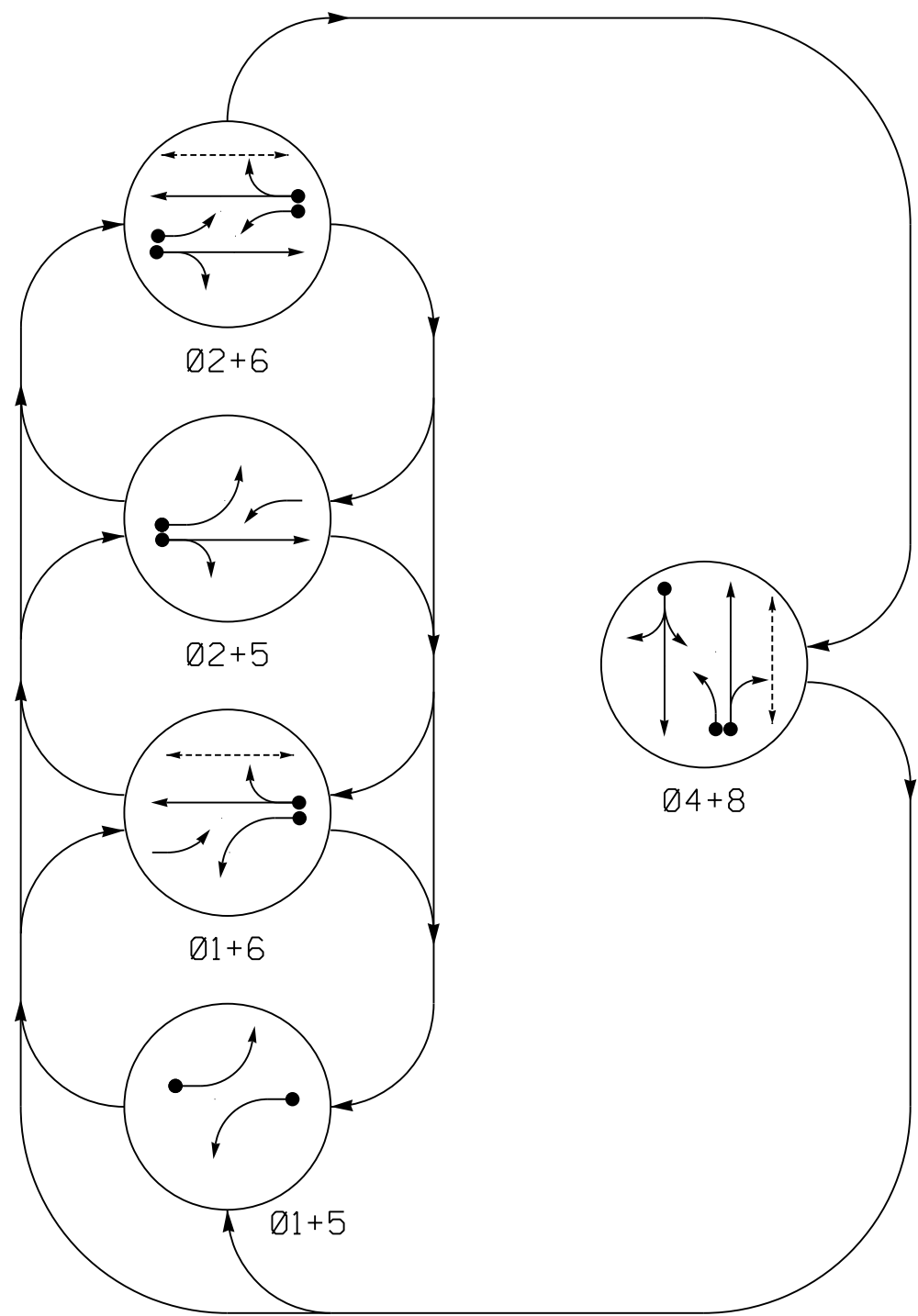
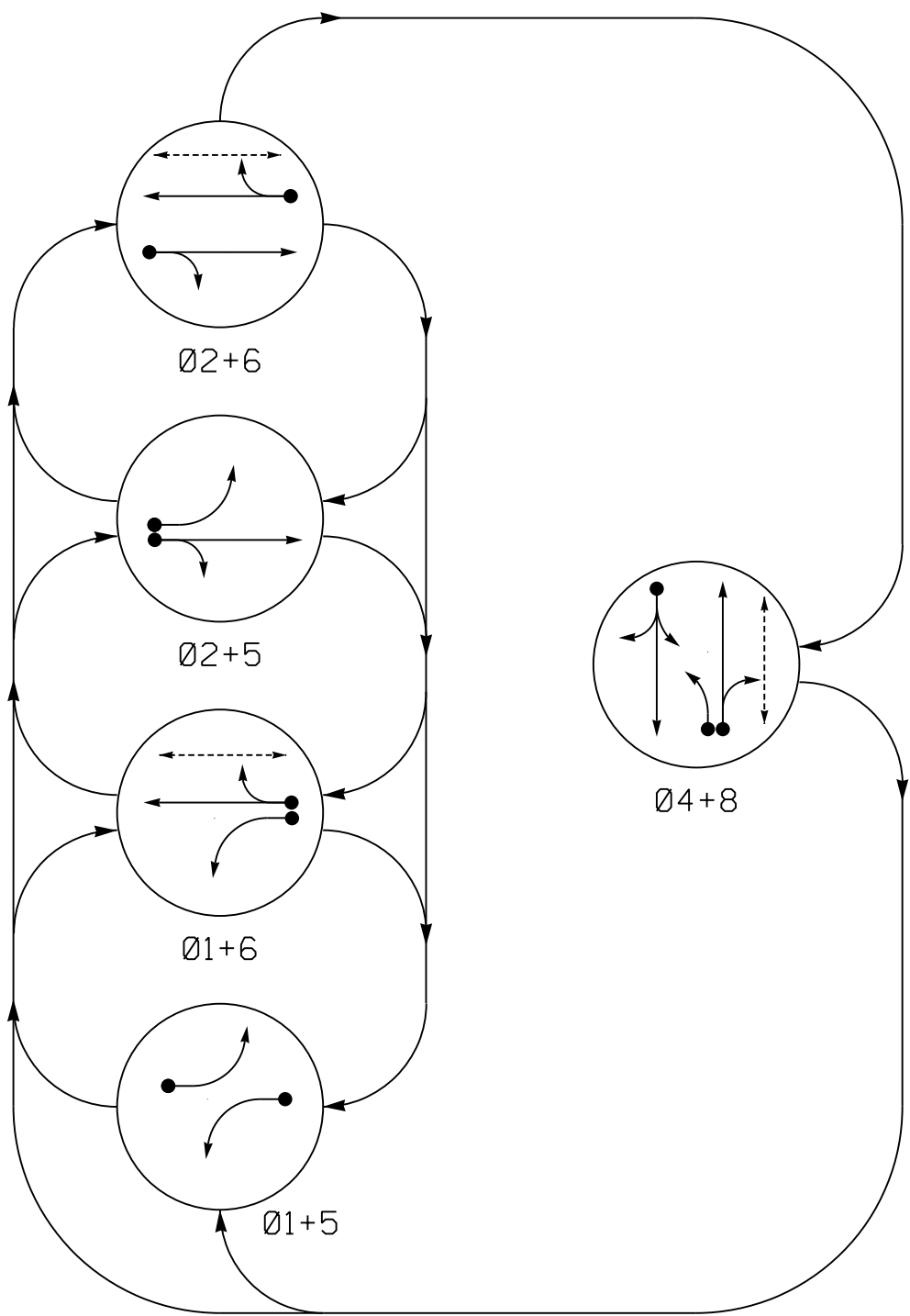


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	F L A S H
11	←	←	←	←	←	←
21,22	R	R	G	G	R	R
41,42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	R
81	←	←	←	←	←	←
82,83,84	R	R	R	R	G	R
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	F L A S H
11	←	←	←	←	←	←
21,22	R	R	G	G	R	R
41,42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	R
81	←	←	←	←	←	←
82,83,84	R	R	R	R	G	R
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

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

* - Video Detection Zone
** - Reduce delay to 3 seconds during alternate phasing operation.
- Disable phase call for loop(s) during alternate phasing operation.

5 PHASE
FULLY ACTUATED
(ISOLATED)

NOTES

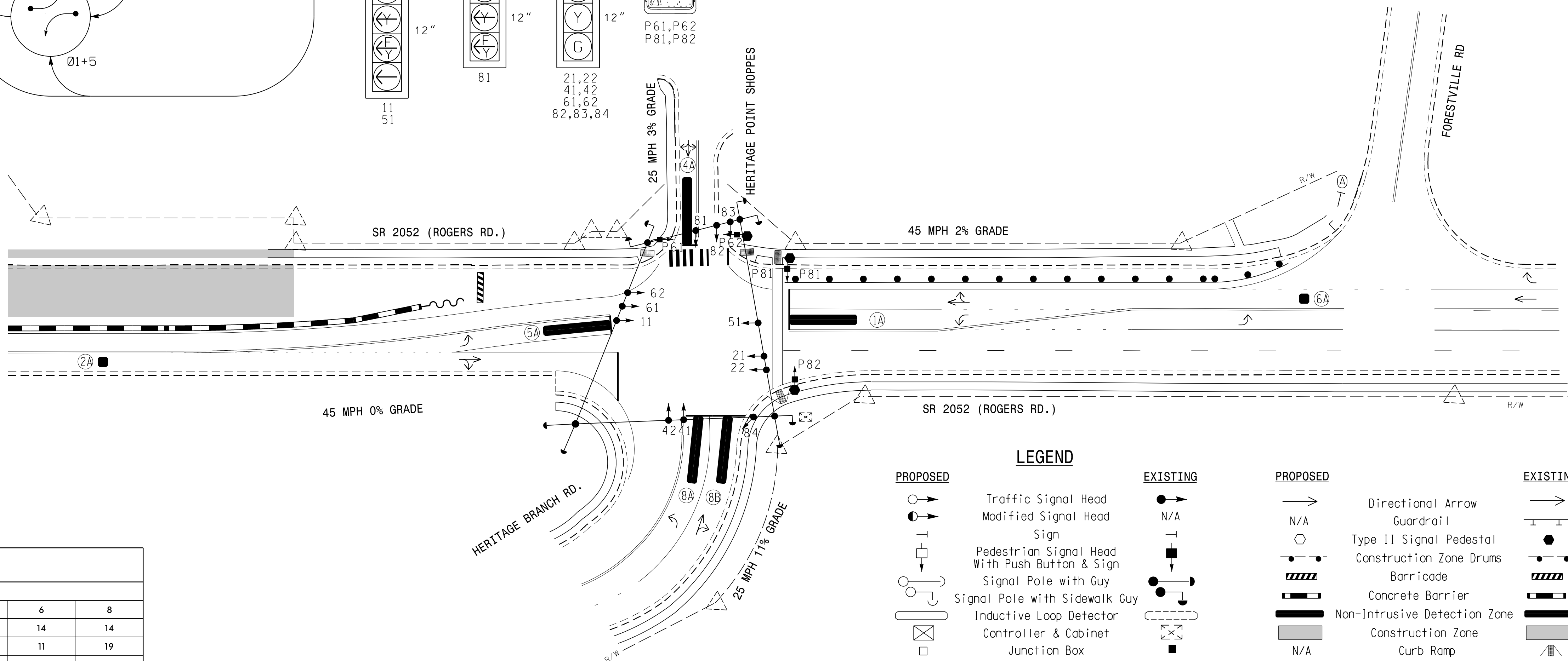
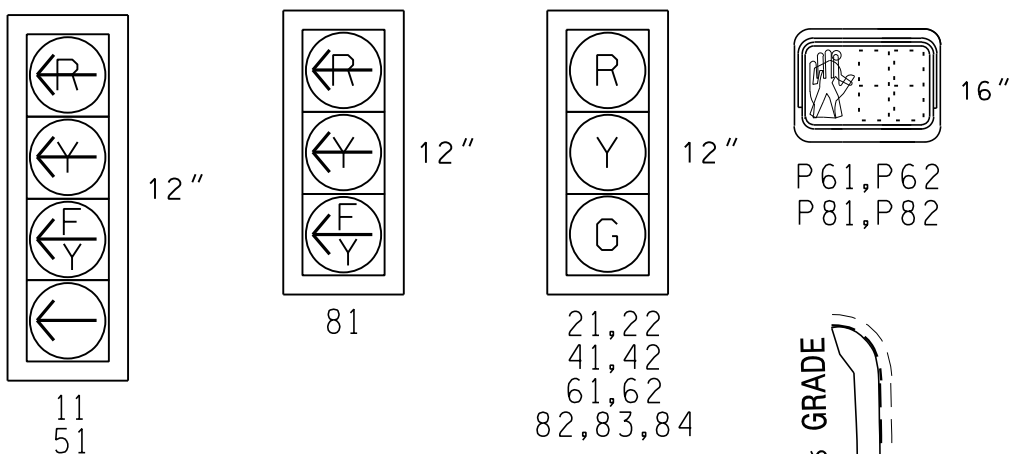
1. REFER TO "ROADWAY STANDARD DRAWINGS NCDOT" DATED JANUARY 2024 AND "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2024.
2. DO NOT PROGRAM SIGNAL FOR LATE NIGHT FLASHING OPERATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. PHASE 1 AND/OR PHASE 5 MAY BE LAGGED.
4. REPOSITION EXISTING SIGNAL HEADS NUMBERED 21, 22, 51, 61, AND 62.
5. EXISTING SIGNAL HEADS 11, 21, 22, 41, 42, 51, 61, 62, 81, 82, 83, AND 84 HAVE BACKPLATES.
6. SET ALL DETECTOR UNITS TO PRESENCE MODE.
7. OMIT "WALK" AND FLASHING "DON'T WALK" WITH NO PEDESTRIAN CALLS.
8. PROGRAM PEDESTRIAN HEADS TO COUNTDOWN THE FLASHING "DON'T WALK" TIME ONLY.
9. THE DIVISION TRAFFIC ENGINEER WILL DETERMINE THE HOURS OF USE FOR EACH PHASING PLAN.
10. THIS INTERSECTION USES VIDEO DETECTION. INSTALL DETECTORS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS TO ACHIEVE THE DESIRED DETECTION.

PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.



LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A	→ Directional Arrow	→
○ → Modified Signal Head	N/A	N/A	Guardrail
□ Sign	□	○ Type II Signal Pedestal	●
□ Pedestrian Signal Head With Push Button & Sign	□	● Construction Zone Drums	●
□ Signal Pole with Guy	□	▨ Barricade	▨
□ Signal Pole with Sidewalk Guy	□	▨ Concrete Barrier	▨
□ Inductive Loop Detector	□	▨ Non-Intrusive Detection Zone	▨
□ Controller & Cabinet	□	▨ Construction Zone	▨
□ Junction Box	□	N/A	Curb Ramp
□ 2-in Underground Conduit	□	N/A	"STOP" Sign (R1-1)
N/A	N/A	Ⓐ	Ⓐ

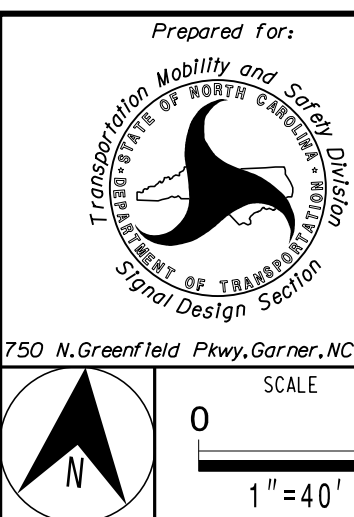
MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	-	-	-	-	14	14
Ped Clear	-	-	-	-	11	19
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	25	15	90	25
Yellow Change	3.0	4.5	3.1	3.0	4.5	3.1
Red Clear	2.6	1.5	2.5	2.3	1.5	2.5
Added Initial *	-	2.5	-	-	2.5	-
Maximum Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.0	-	-	3.0	-
Advance Walk	-	-	-	-	7	7
Non Lock Detector	X	-	X	X	-	X
Vehicle Recall	-	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	-	X	-	-	X

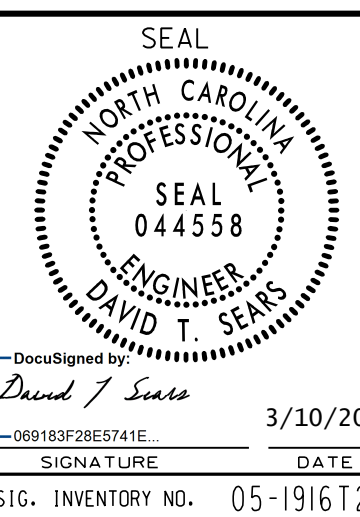
* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

SIGNAL UPGRADE - TEMPORARY DESIGN 2
(CONSTRUCTION PHASE III STEP 1 -
PHASE IV STEP 1)

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



SR 2052 (ROGERS RD.) AT HERITAGE BRANCH RD. AND HERITAGE POINTE SHOPPES		WAKE COUNTY		WAKE FOREST	
DIVISION 5		MARCH 2025		DTSEARS	
PREPARED BY: WPJONES		REVIEWED BY:		DTSEARS	
REVISIONS		INIT.		DATE	



SIGNATURE DATE
SIC. INVENTORY NO. 05-1916T2