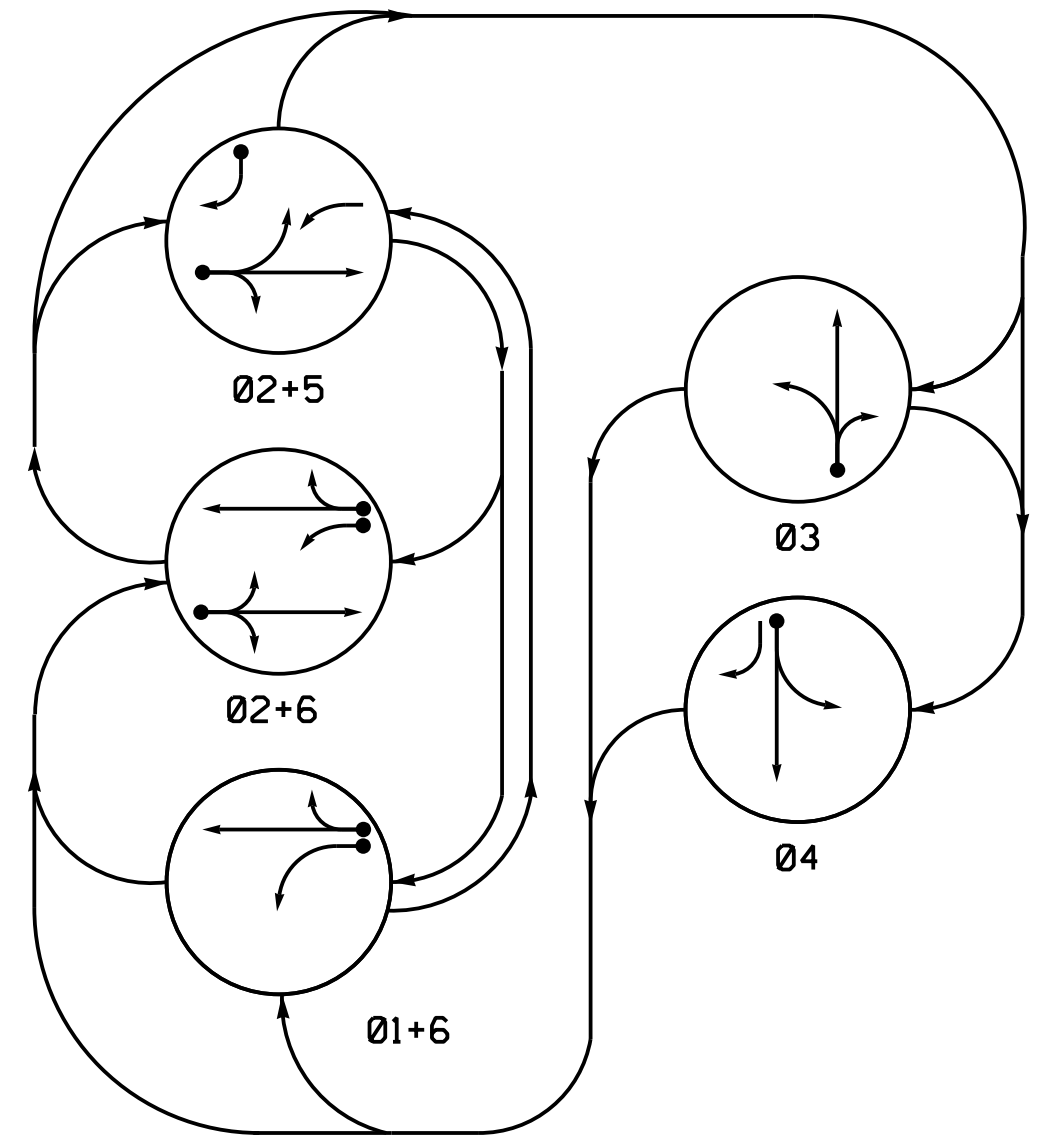


PHASING DIAGRAM



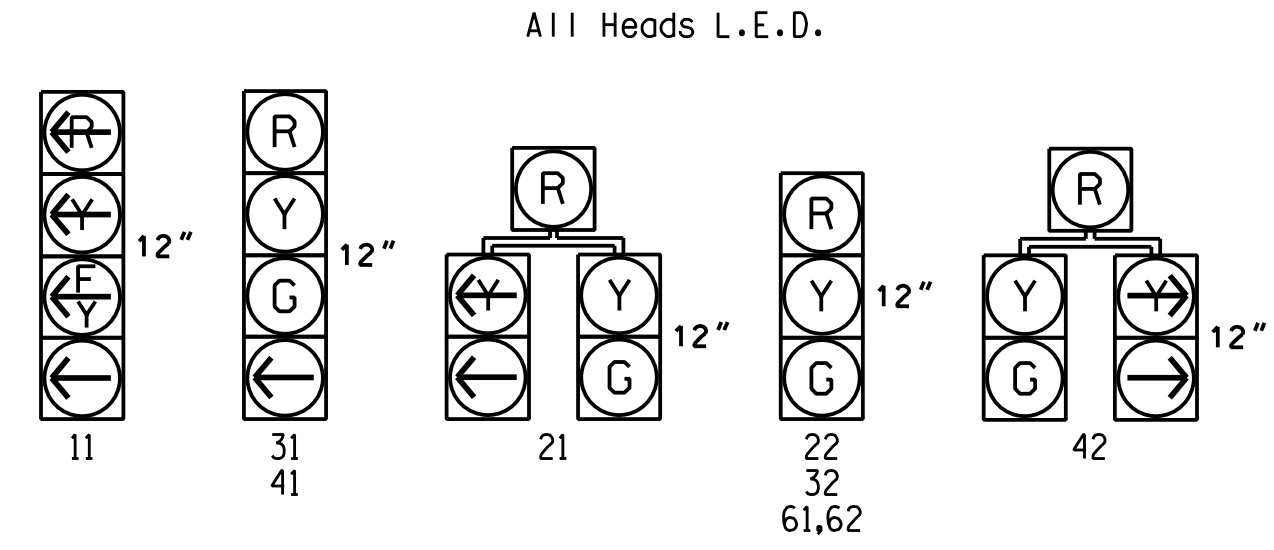
PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←○...○→ UNSIGNALIZED MOVEMENT
- ←○- - -○→ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+6	02+6	02+5	03	04	FLASH
11	—	F	F	—	—	Y
21	R	G	G	R	R	Y
22	R	G	G	R	R	Y
31	R	R	R	G	R	R
32	R	R	R	G	R	R
41	R	R	R	R	G	R
42	R	R	R	R	G	R
61,62	G	G	R	R	R	Y

SIGNAL FACE I.D.



MAXTIME DETECTOR INSTALLATION CHART

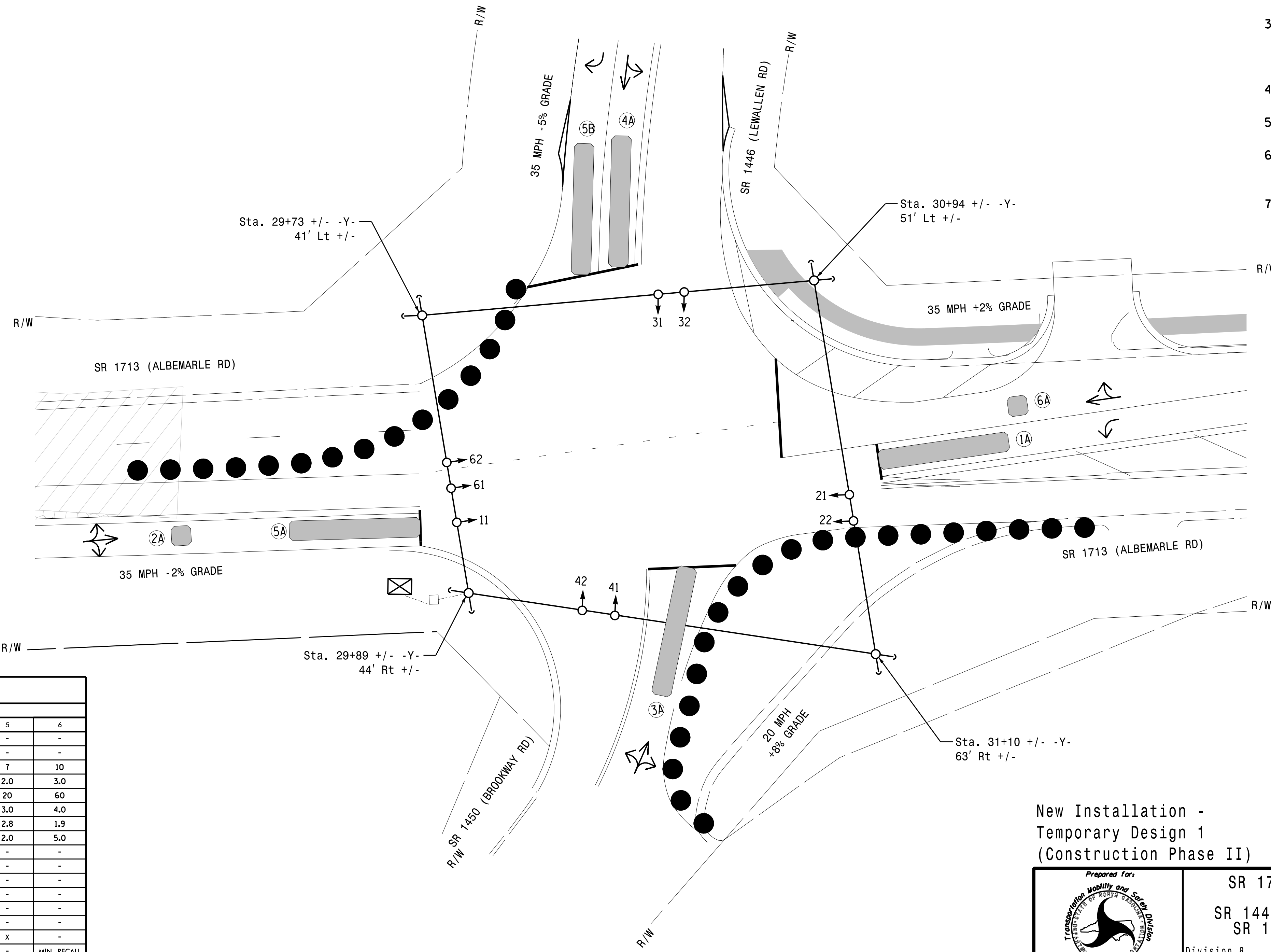
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	DETECTOR		PROGRAMMING							
			TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND INITIAL	CALL	CALL DELAY	NEW CARD	
1A*	6X40	0	*	*	1	15	-	X	-	X	-	*
2A*	6X6	70	*	*	2	-	-	X	-	X	-	*
3A*	6X40	0	*	*	3	10	-	X	-	X	-	*
4A*	6X40	0	*	*	4	3	-	X	-	X	-	*
5A*	6X40	0	*	*	5	15	-	X	-	X	-	*
5B*	6X40	0	*	*	5	15	-	X	-	X	-	*
6A*	6X6	70	*	*	6	-	-	X	-	X	-	*

* Microwave Detection

5 Phase Fully Actuated (Isolated)

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.
- Enable Backup Protect for phase 6 to allow the controller to clear from Phase 2+6 to Phase 1+6 by progressing through an all red display.
- The order of phase 3 and 4 may be reversed.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



LEGEND

PROPOSED	EXISTING

MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Walk *	-	-	-	-	-	-
Ped Clear *	-	-	-	-	-	-
Min Green	7	10	7	7	7	10
Passage *	2.0	3.0	2.0	2.0	2.0	3.0
Max I *	20	60	20	30	20	60
Yellow Change	3.0	4.0	3.0	4.2	3.0	4.0
Red Clear	2.6	1.9	1.9	1.7	2.8	1.9
Red Revert	2.0	2.0	2.0	2.0	2.0	5.0
Added Initial *	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Advance Walk	-	-	-	-	-	-
Non Lock Detector	X	-	X	X	X	-
Vehicle Recall	-	MIN RECALL	-	-	-	MIN RECALL
Dual Entry	-	-	-	-	-	-

* 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.

New Installation - Temporary Design 1 (Construction Phase II)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	SR 1713 (Albemarle Rd) at SR 1446 (Lewallen Rd) and SR 1450 (Brookway Rd)		
	Division 8 Randolph County Asheville PLAN DATE: August 2021 PREPARED BY: N.K. Vlanich	REVIEWED BY: A.D. Klinskiak REVIEWED BY: N.R. Simmons	

HNTB HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997

DocuSigned by: *Natasha R. Simmons* 5/21/2024
 SIGNATURE DATE
 SIG. INVENTORY NO. 08-024611