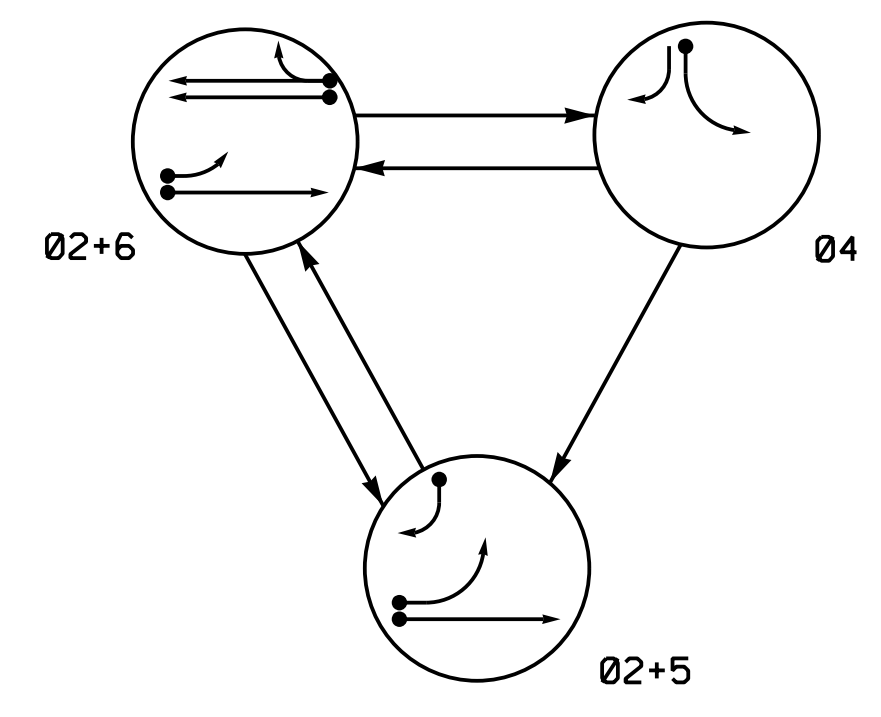


PHASING DIAGRAM

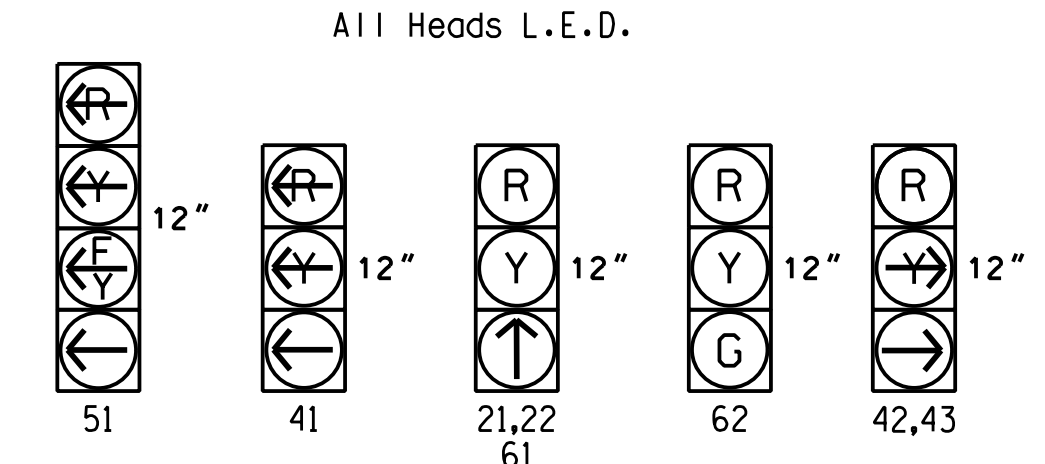


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE			
	02+5	02+6	04	FLASH
21,22			R	Y
41	←	←	←	←
42,43	←	R	←	R
51	←	←	←	←
61	R		R	Y
62	R	G	R	Y

SIGNAL FACE I.D.

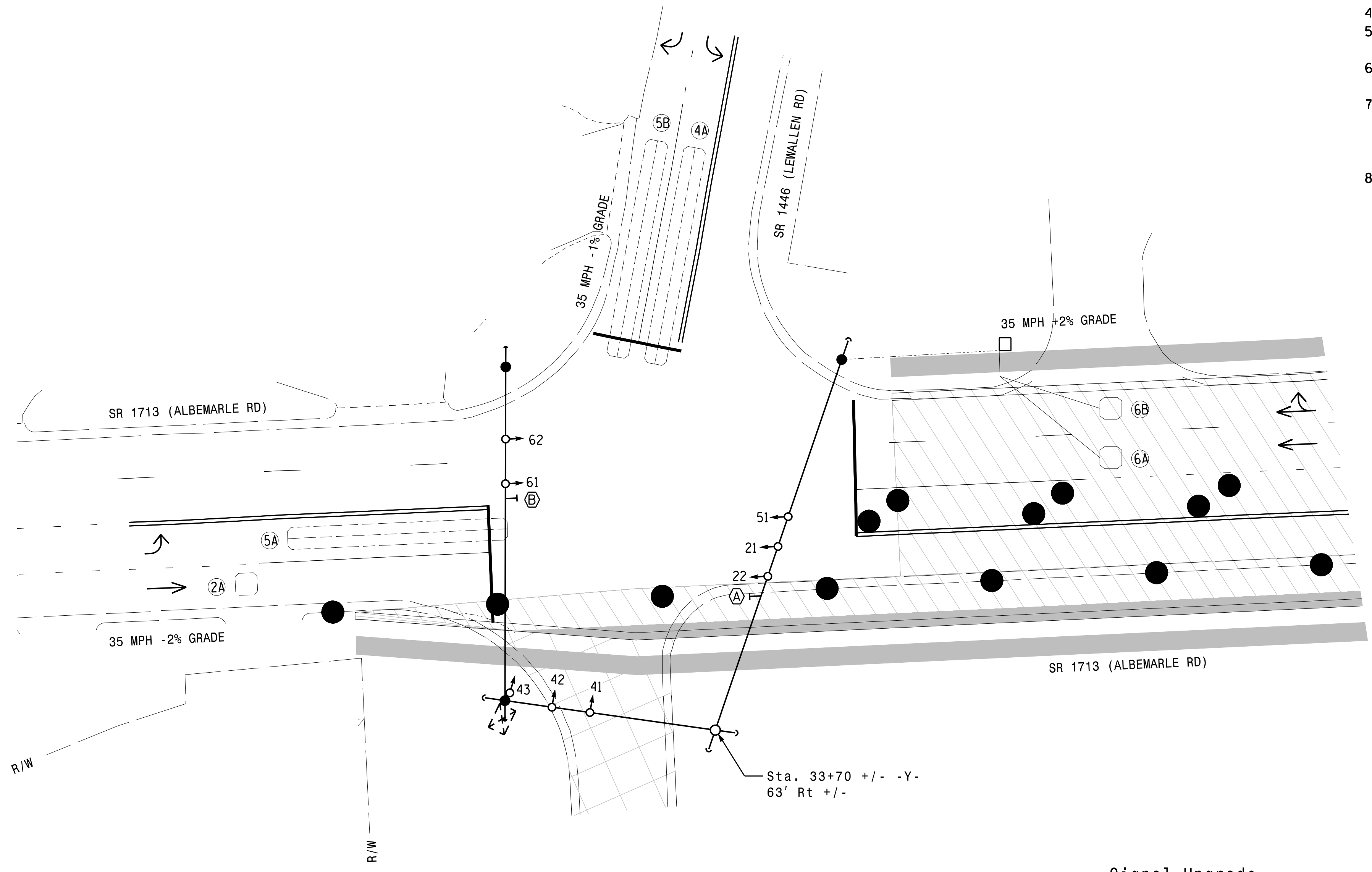


OASIS 2070 DETECTOR INSTALLATION CHART											
INDUCTIVE LOOPS						DETECTOR PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING EXTENSION	EXTENSION	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	70	5	-	2	Y	Y	-	-	-	-
4A	6X60	+5	2-4-2	-	4	Y	Y	-	-	-	-
5A	6X60	+5	2-4-2	-	5	Y	Y	-	-	15	-
5B	6X60	+5	2-4-2	-	5	Y	Y	-	-	10	-
6A,6B	6X6	70	5	Y	6	Y	Y	-	-	-	-

3 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 5 may be lagged.
4. Remove existing backup protect.
5. Set all detector units to presence mode.
6. Program controller to operate using FYA compact mode.
7. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
8. Install new conflict monitor in existing cabinet.



OASIS 2070 TIMING CHART				
FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	10	7	7	10
Extension 1 *	3.0	2.0	2.0	3.0
Max Green 1 *	60	30	20	60
Yellow Clearance	4.0	3.1	3.0	4.0
Red Clearance	1.6	2.1	2.3	1.6
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time to Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	X	X	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.

LEGEND	
PROPOSED	EXISTING
N/A	
N/A	

Signal Upgrade -
Temporary Design
(Construction Phase IA)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

 Prepared for: Transportation Mobility and Safety Division DEPARTMENT OF TRANSPORTATION Signal Design Section 750 N. Greenfield Pkwy, Garner, NC 27529	SR 1713 (Albemarle Rd) at SR 1446 (Lewallen Rd)		SEAL N. R. SIMMONS ENGINEER 031464
	Division 8 Randolph County Asheboro PLAN DATE: August 2021 REVIEWED BY: A.D. Klinksiek PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	REVISIONS INIT. DATE _____ _____ _____	

DocuSigned by:
Natalia R. Simmons 5/21/2024
SIGNATURE DATE
SIG. INVENTORY NO. 08-0245T