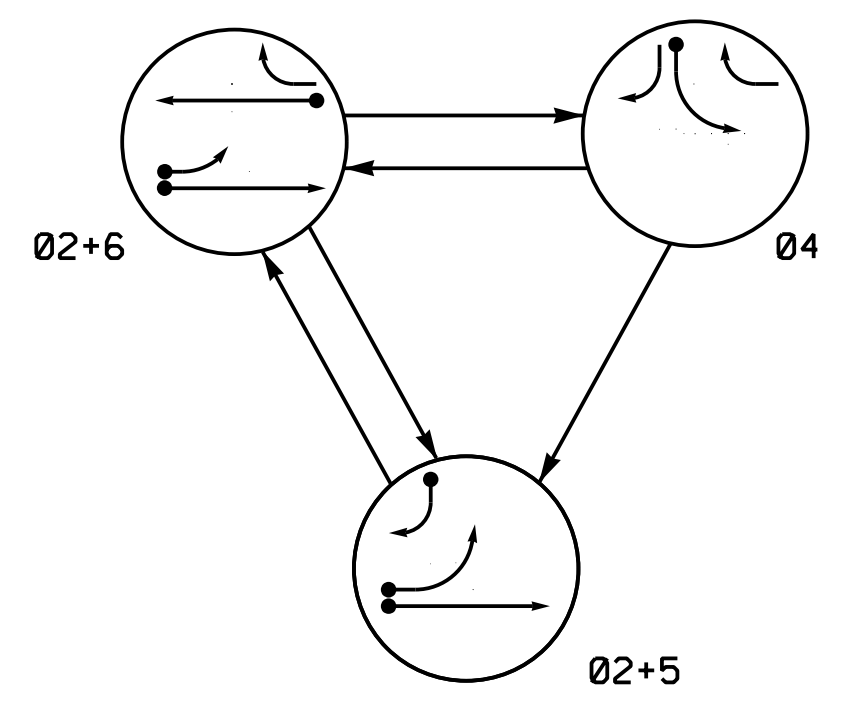
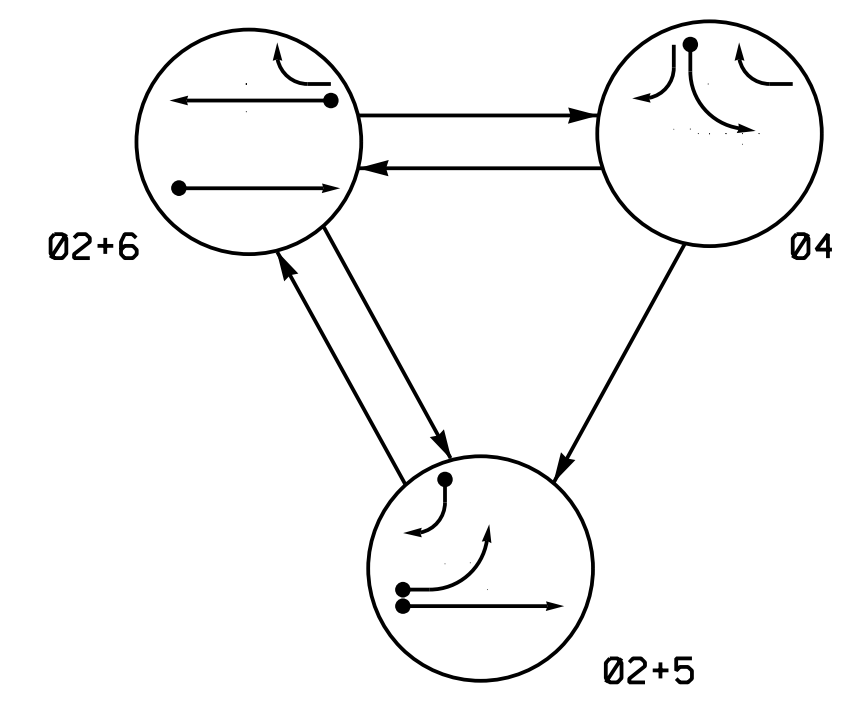


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

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

ALTERNATE PHASING TABLE OF OPERATION

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

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
4A	6X40	0	*	*	4	Y	Y	-	-	3	-	Y
5A	6X40	0	*	*	5	Y	Y	-	-	15**	-	Y
5B	6X40	0	*	*	5	Y	Y	-	-	15	-	Y

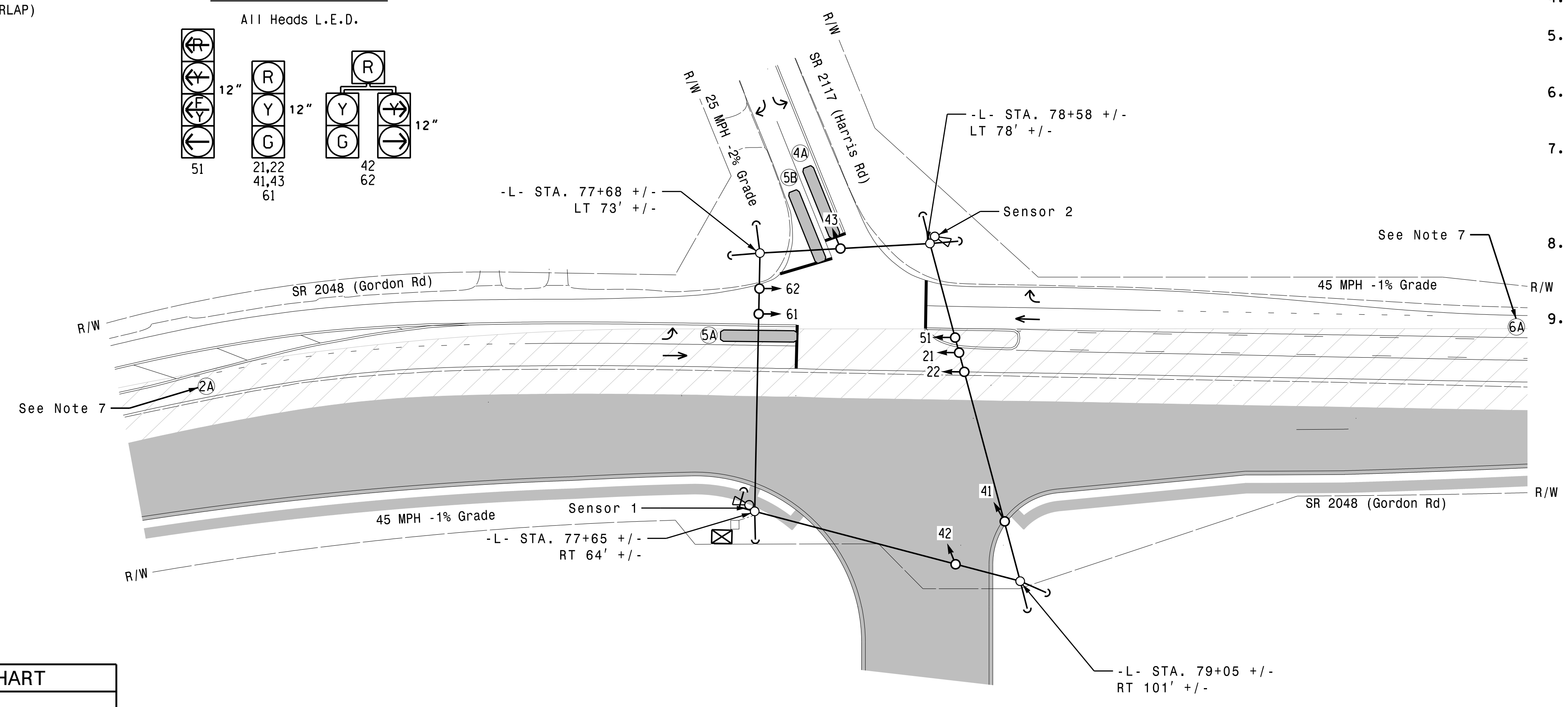
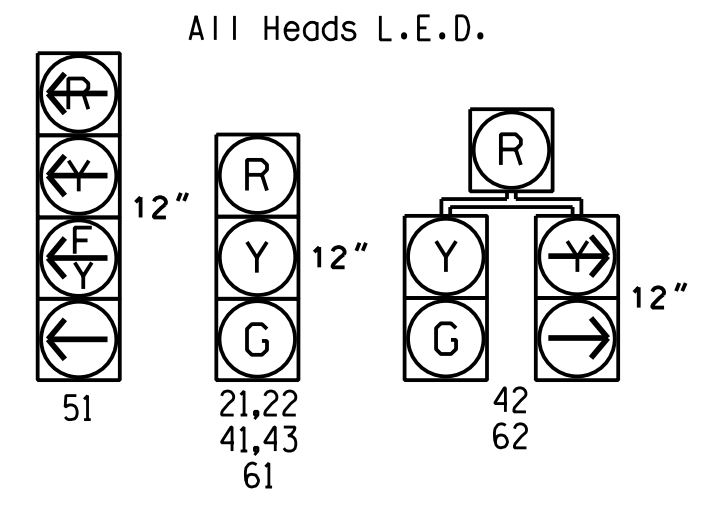
- * Multizone Microwave Detection
- ** Disable Delay During Alternate Phasing Operation.
- # Disable phase call for loop(s) during alternate phasing.

3 Phase Fully Actuated Wilmington 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. Locate new cabinet so as to not obstruct sight distance of vehicles turning right on red.
6. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
7. This intersection uses multi-zone microwave detection. Install the detectors according to the manufacturer's instructions to achieve the desired detection.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. Signal system data: Controller Asset #0840.

SIGNAL FACE I.D.



OASIS 2070 TIMING CHART

FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	12	5	5	12
Extension 1 *	2.0	2.0	2.0	2.0
Max Green 1 *	60	30	20	60
Yellow Clearance	4.6	3.0	3.0	4.6
Red Clearance	1.1	2.6	1.8	1.1
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	ON	ON	ON	ON

RADAR DETECTION SYSTEM

FUNCTION	Sensor 1	Sensor 2
Channel	1	1
Phase	2	6
Direction of Travel	EB	WB
Detection Zone (ft)	100-600	100-600
Enable Speed	Y	Y
Speed Range (mph)	35-100	35-100
Enable Estimated Time of Arrival	Y	Y
Estimated Time of Arrival (sec)	2.5-6.5	2.5-6.5

LEGEND

	PROPOSED Traffic Signal Head		EXISTING Traffic Signal Head
	PROPOSED Modified Signal Head		EXISTING Modified Signal Head
	PROPOSED Pedestrian Signal Head		EXISTING Pedestrian Signal Head
	PROPOSED Signal Pole with Guy		EXISTING Signal Pole with Guy
	PROPOSED Signal Pole with Sidewalk Guy		EXISTING Signal Pole with Sidewalk Guy
	PROPOSED Microwave Detection Zone		EXISTING Microwave Detection Zone
	PROPOSED Out of Pavement Detector		EXISTING Out of Pavement Detector
	PROPOSED Controller & Cabinet		EXISTING Controller & Cabinet
	PROPOSED Junction Box		EXISTING Junction Box
	PROPOSED 2-in Underground Conduit		EXISTING 2-in Underground Conduit
	PROPOSED Right of Way		EXISTING Right of Way
	PROPOSED Permanent Utility Easement		EXISTING Permanent Utility Easement
	PROPOSED Construction Easement		EXISTING Construction Easement
	PROPOSED Directional Arrow		EXISTING Directional Arrow
	PROPOSED Construction Zone		EXISTING Construction Zone
	PROPOSED Wedge/Widen		EXISTING Wedge/Widen

Signal Upgrade-
Temporary Design 1
(Construction Phase 1)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	SR 2048 (Gordon Rd) at SR 2117 (Harris Rd)		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464 NASHA R. SIMMONS
	Division 3 New Hanover County Wilmington PLAN DATE: May 2022 PREPARED BY: E.E. Tiller REVISIONS:	REVIEWED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons INITI. DATE:	

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

* 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.