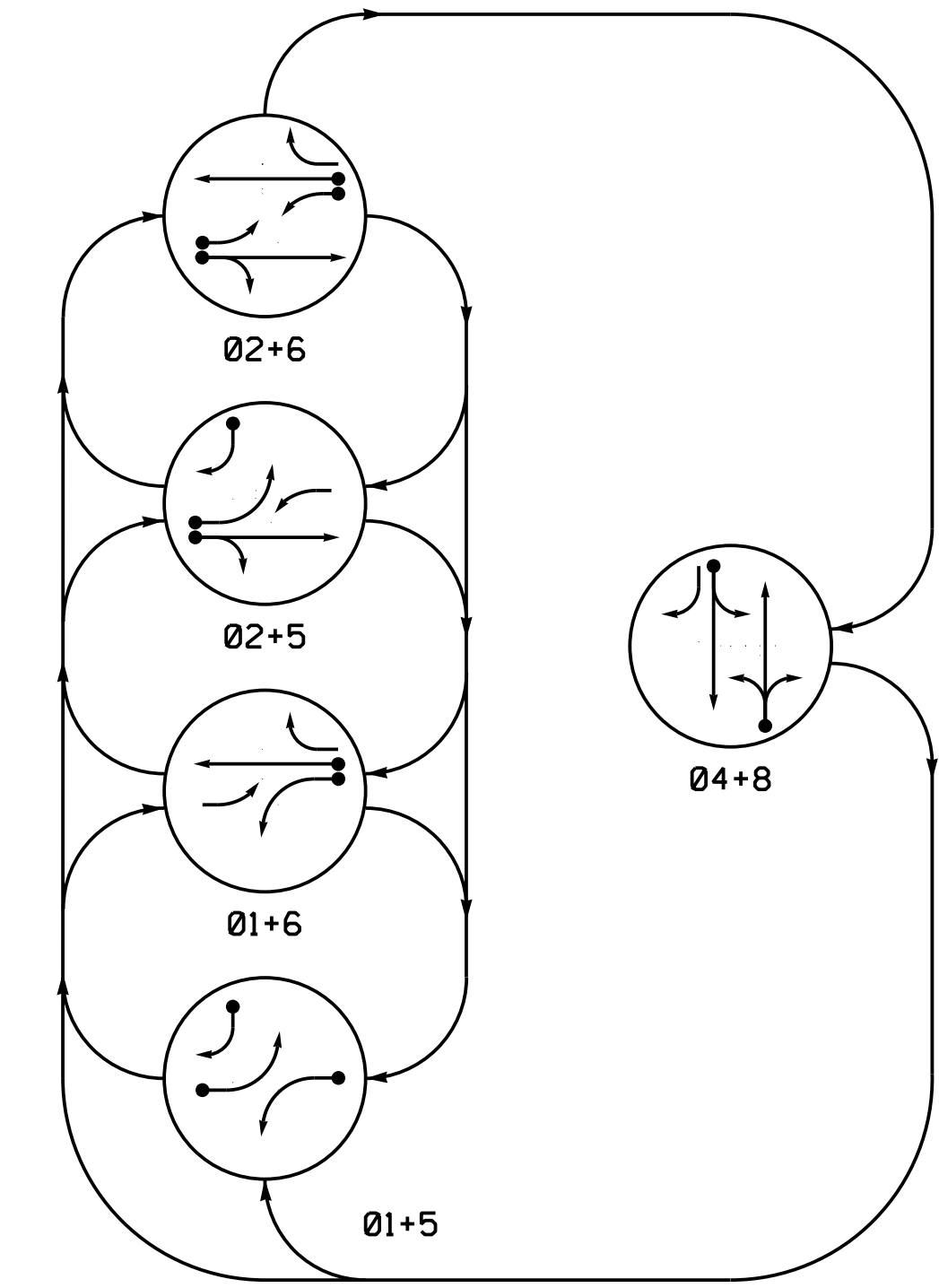
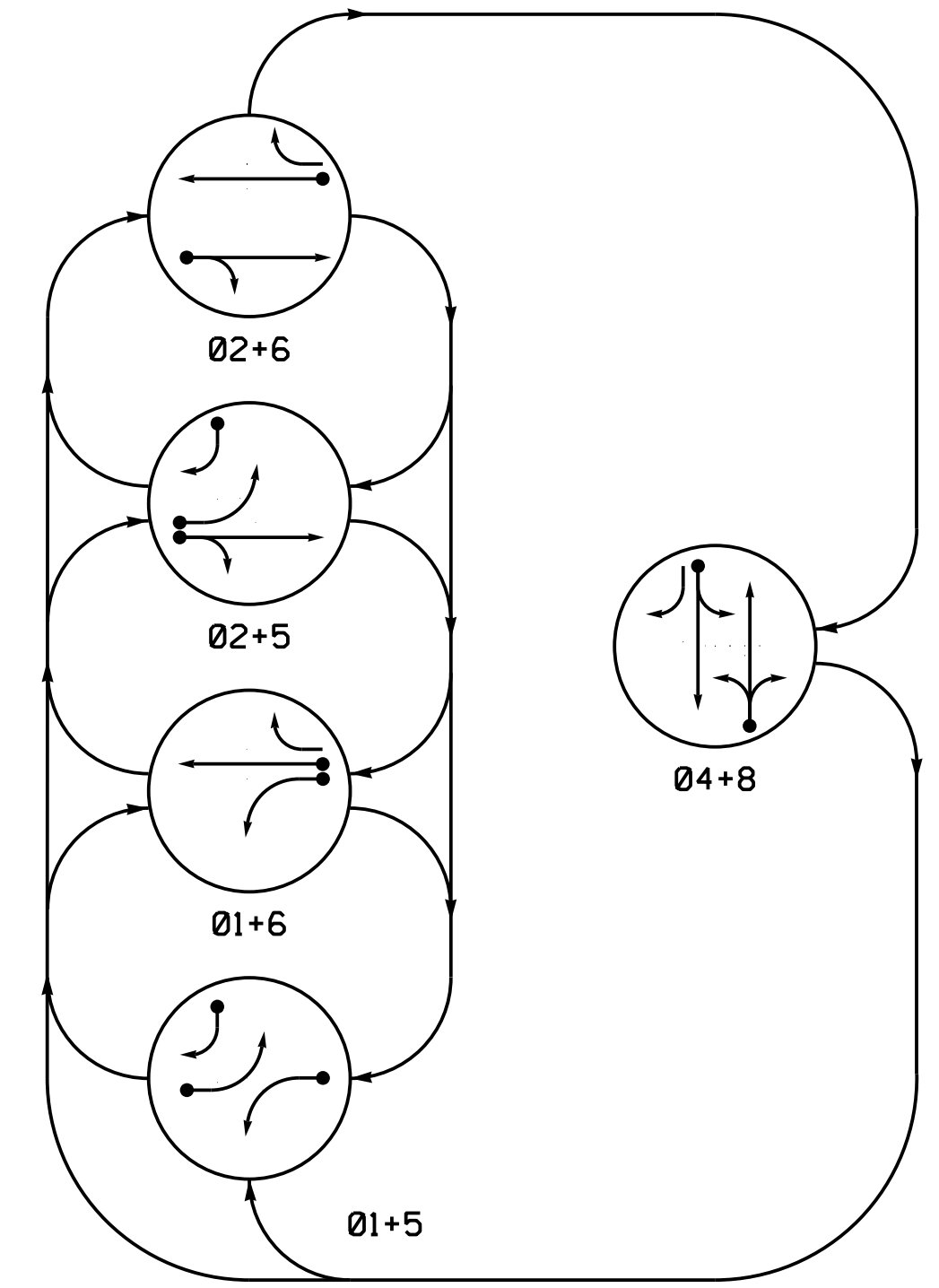


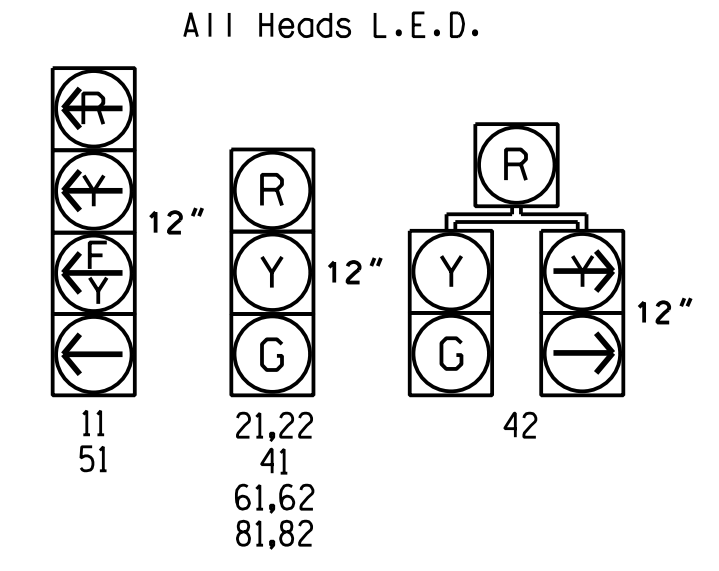
**DEFAULT PHASING DIAGRAM**



**ALTERNATE PHASING DIAGRAM**



**SIGNAL FACE I.D.**



**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
1A	6x40	0	*	*	1	Y	Y	-	-	15**	-	Y
4A	6x40	0	*	*	6#	Y	Y	-	-	-	-	Y
5A	6x40	0	*	*	5	Y	Y	-	-	15**	-	Y
5B	6x40	0	*	*	2#	Y	Y	-	-	-	-	Y
8A	6x40	0	*	*	8	Y	Y	-	-	3	-	Y

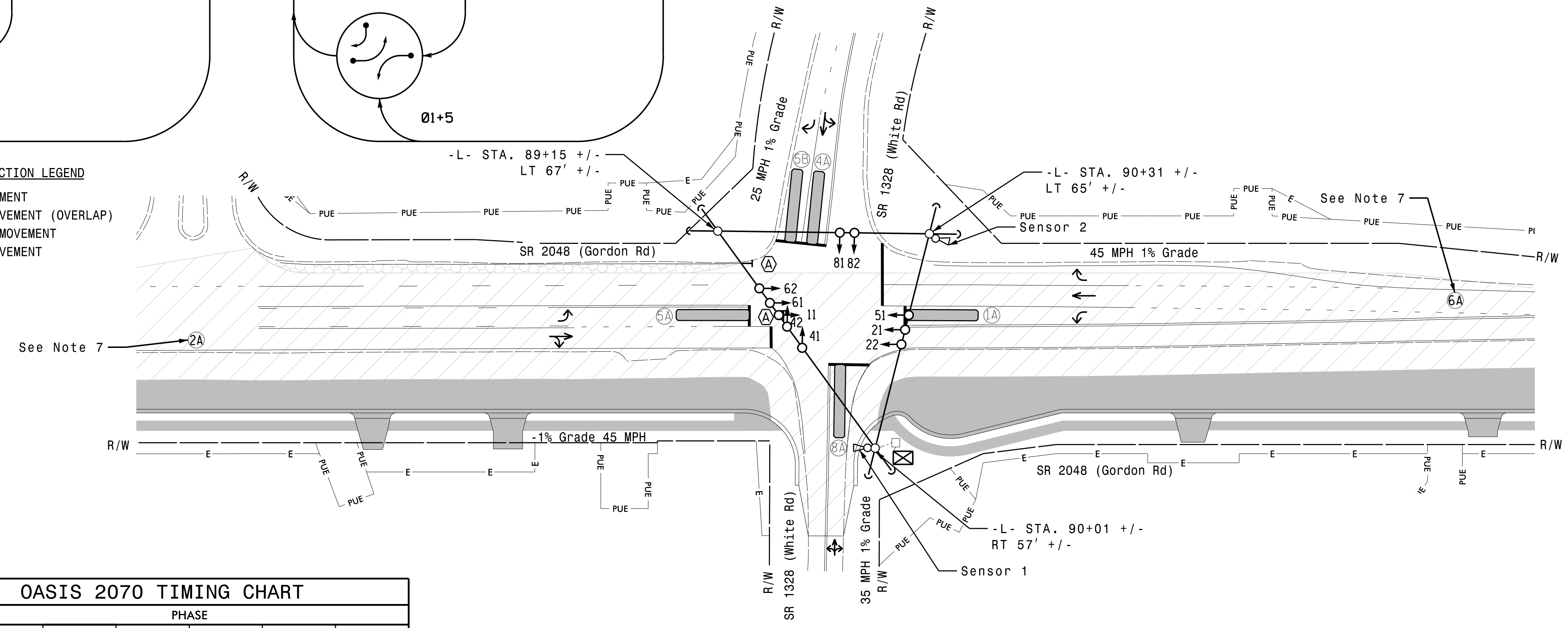
\* Multizone Microwave Detection  
 \*\* Reduce delay to 3 seconds during alternate phasing.  
 # Disable phase call for loop(s) during alternate phasing.

**5 Phase Fully Actuated Wilmington Signal System**

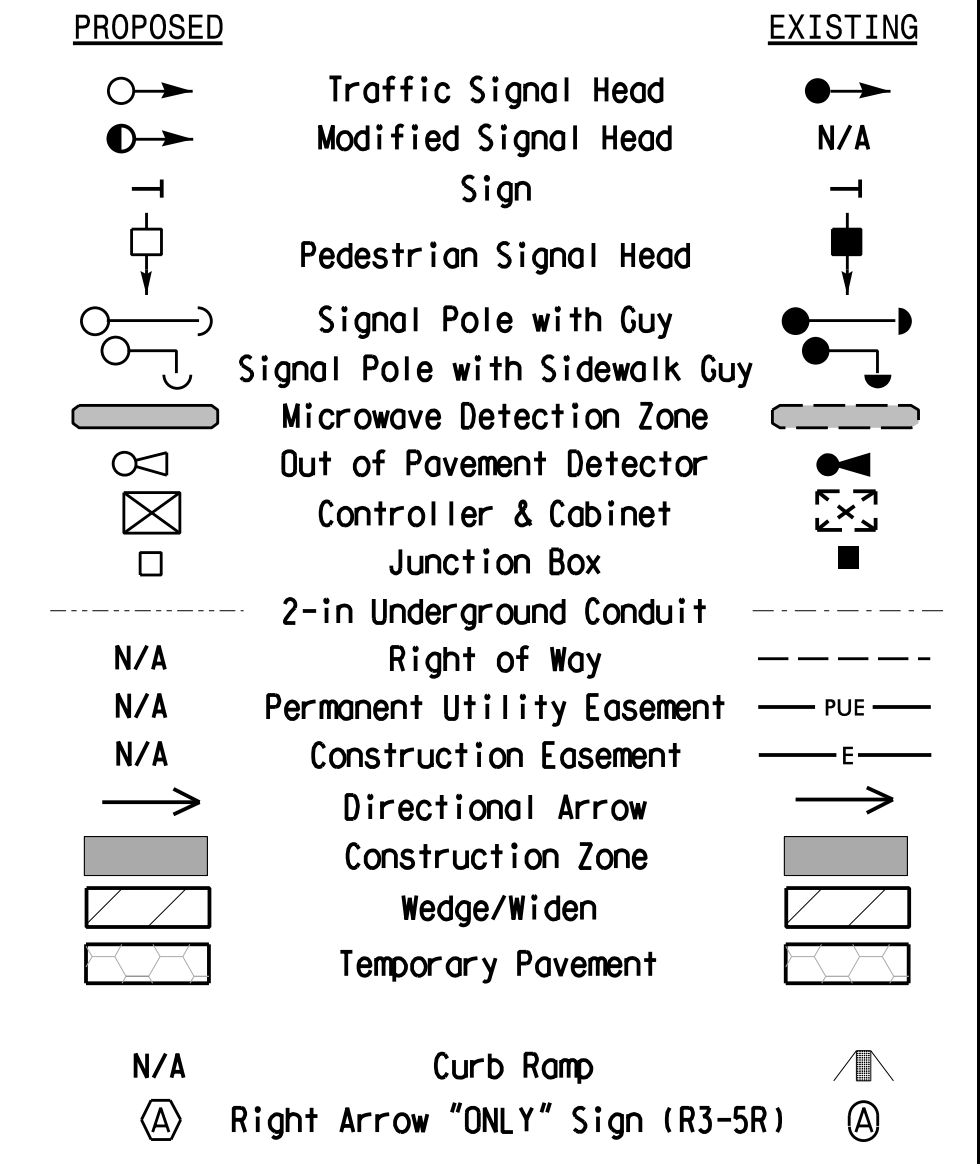
**NOTES**

- 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.
- Phase 1 and/or phase 5 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet to as not to obstruct sight distance of vehicles turning right on red.
- The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Signal system data: Controller Asset #0893.

**PHASING DIAGRAM DETECTION LEGEND**  
 ● DETECTED MOVEMENT  
 ○ UNDETECTED MOVEMENT (OVERLAP)  
 - - - UNSIGNALIZED MOVEMENT  
 - - - PEDESTRIAN MOVEMENT



**LEGEND**



**OASIS 2070 TIMING CHART**

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	5	12	5	5	12	5
Extension 1 *	2.0	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	20	90	20	20	90	20
Yellow Clearance	3.0	4.6	3.1	3.0	4.6	3.8
Red Clearance	1.8	1.1	2.0	1.9	1.1	1.3
Red Revert	2.0	2.0	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	-	-	ON	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON	ON

\* 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.

**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

**DEFAULT PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE						FLASH
	0	1	2	4	6	8	
11	-	-	-	-	-	-	-
21,22	R	R	R	G	R	Y	-
41	R	R	R	R	G	R	-
42	R	R	R	R	G	R	-
51	-	-	-	-	-	-	-
61,62	R	G	R	G	R	Y	-
81,82	R	R	R	R	G	R	-

**ALTERNATE PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE						FLASH
	0	1	2	4	6	8	
11	-	-	-	-	-	-	-
21,22	R	R	G	R	R	Y	-
41	R	R	R	R	G	R	-
42	R	R	R	R	G	R	-
51	-	-	-	-	-	-	-
61,62	R	G	R	G	R	Y	-
81,82	R	R	R	R	G	R	-

Signal Upgrade-  
 Temporary Design 1  
 (Construction Phase 1)

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

**HNTB** HNTB NORTH CAROLINA, P.C.  
 343 E. Six Forks Road, Suite 200  
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 (919) 546-8997

Prepared for: **SR 2048 (Gordon Rd) at SR 1328 (White Rd)**

Division 3 New Hanover County Wilmington

PLAN DATE: May 2022 REVIEWED BY: N.K. Vlanich

PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons

750 N. Greenfield Hwy, Corner, NC 27528

SCALE: 0 40 1"=40'

REVISIONS: \_\_\_\_\_

INIT. DATE

DocuSigned by: **Natasha R. Simmons** 5/17/2024

SIGNATURE DATE

SIG. INVENTORY NO. 03-089311