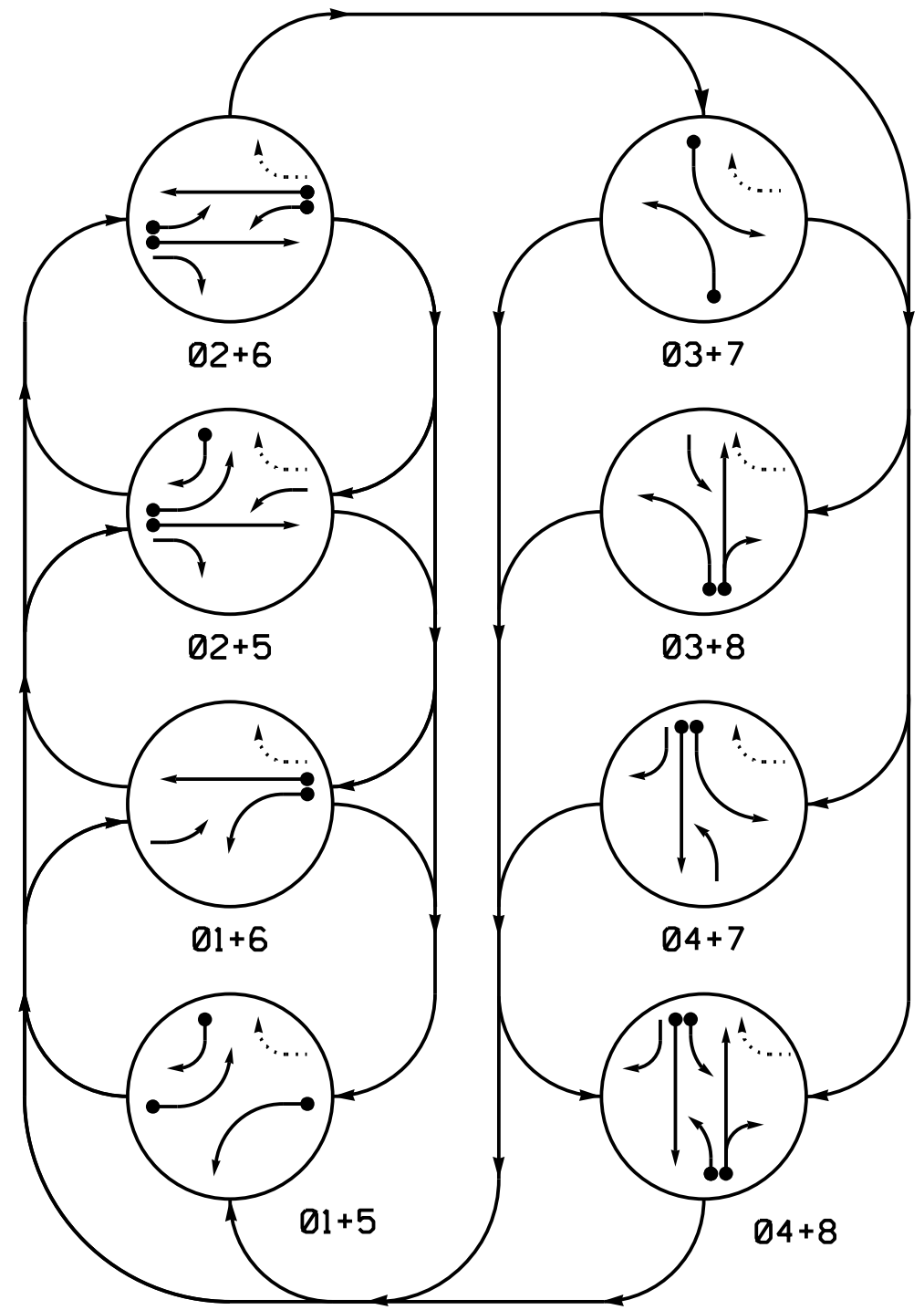
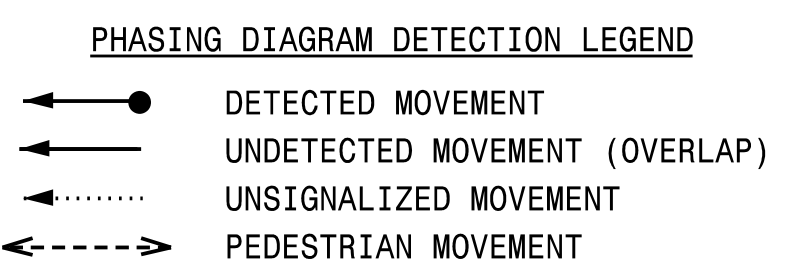
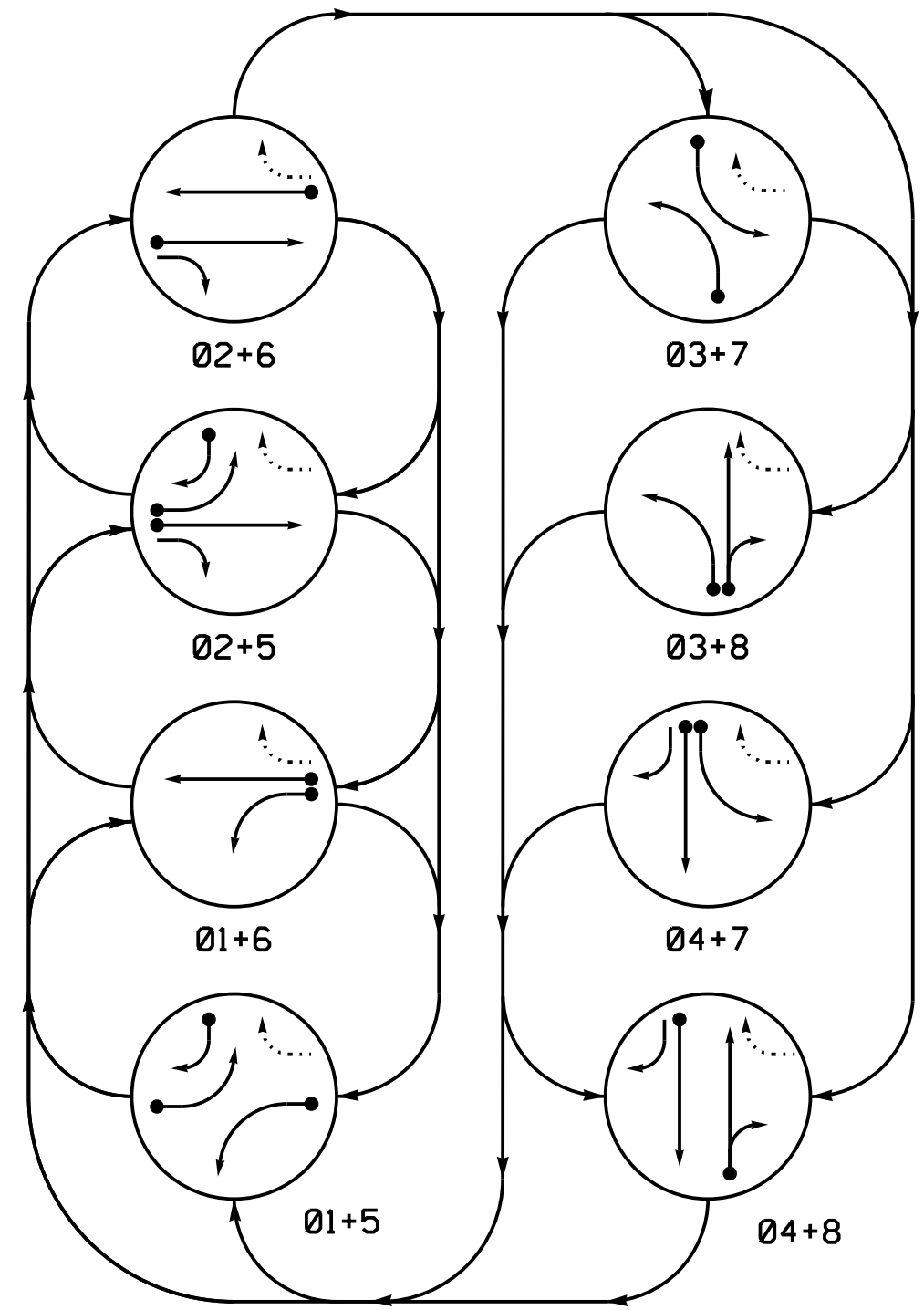


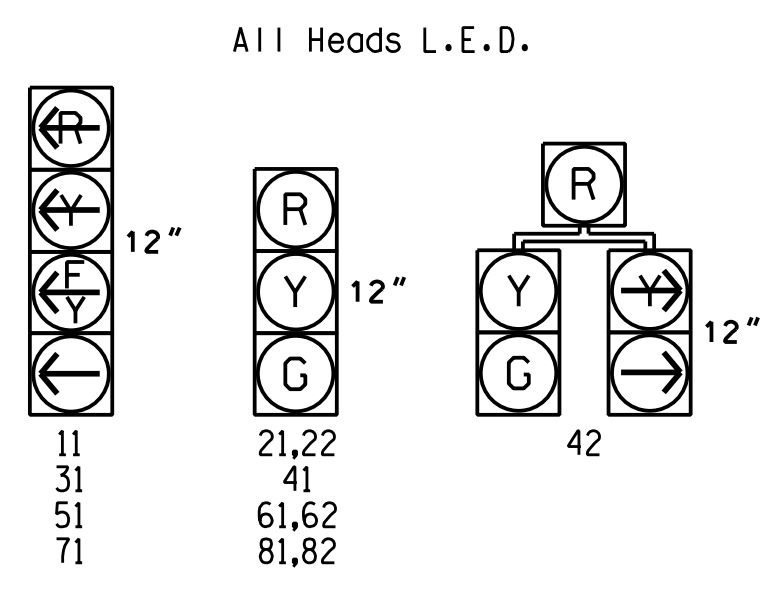
DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



SIGNAL FACE I.D.



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	—	—	—	—	—	—	—	—
21,22	R	R	G	G	R	R	R	R
31	R	R	R	R	—	—	—	—
41	R	R	R	R	R	G	G	R
42	R	R	R	R	R	G	G	R
51	—	—	—	—	—	—	—	—
61,62	R	G	R	G	R	R	R	Y
71	R	R	R	R	—	—	—	—
81,82	R	R	R	R	R	G	R	G

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	—	—	—	—	—	—	—	—
21,22	R	R	G	G	R	R	R	Y
31	R	R	R	R	—	—	—	—
41	R	R	R	R	R	G	G	R
42	R	R	R	R	R	G	G	R
51	—	—	—	—	—	—	—	—
61,62	R	G	R	G	R	R	R	Y
71	R	R	R	R	—	—	—	—
81,82	R	R	R	R	R	G	R	G

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

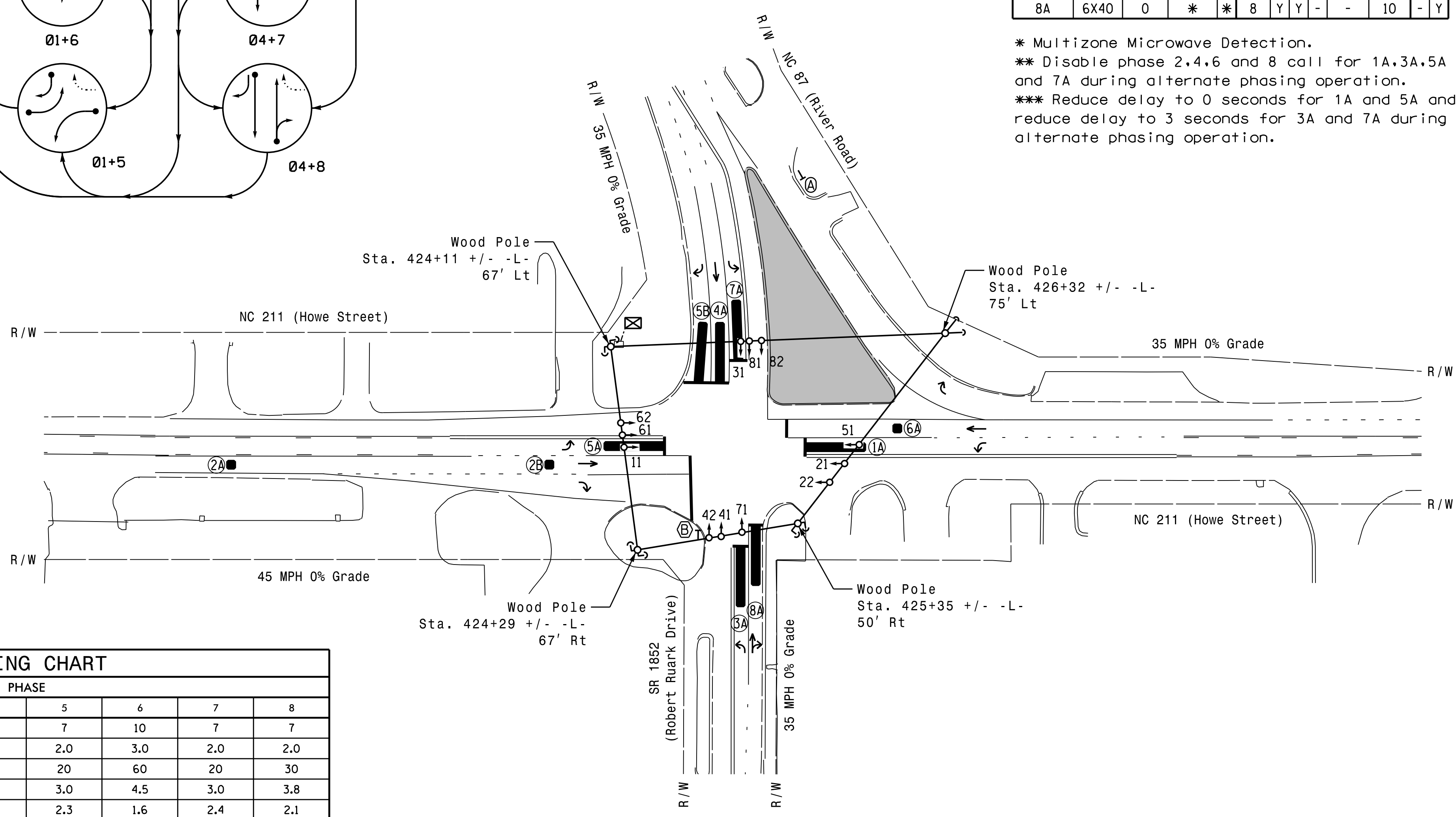
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING		STRETCH TIME	DELAY TIME	SYSTEM	LOOP CARD
					PHASE	CALLING EXTENSION FULL TIME DELAY				
1A	6X40	0	*	*	1	Y	Y	—	***15	—
2A	6X6	300	*	*	2	Y	Y	1.6	—	—
2B	6X6	90	*	*	2	Y	Y	—	—	—
3A	6X40	0	*	*	3	Y	Y	—	***15	—
4A	6X40	0	*	*	4	Y	Y	—	—	—
5A	6X40	0	*	*	5	Y	Y	—	***15	—
5B	6X40	0	*	*	5	Y	Y	—	15	—
6A	6X6	70	*	*	6	Y	Y	—	—	—
7A	6X40	0	*	*	7	Y	Y	—	***15	—
8A	6X40	0	*	*	8	Y	Y	—	10	—

* Multizone Microwave Detection.
 ** Disable phase 2,4,6 and 8 call for 1A,3A,5A and 7A during alternate phasing operation.
 *** Reduce delay to 0 seconds for 1A and 5A and reduce delay to 3 seconds for 3A and 7A during alternate phasing operation.

8 Phase Fully Actuated (NC 133 Closed Loop System)

NOTES

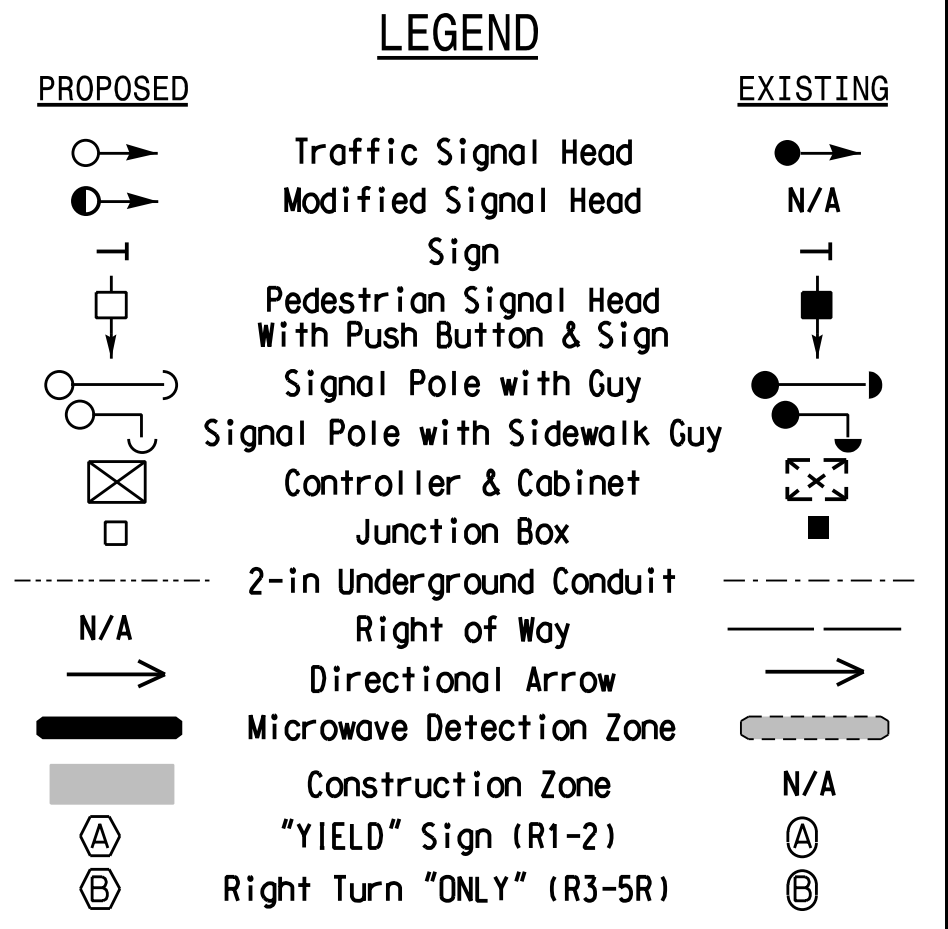
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or 5 may be lagged.
- Phase 3 and/or 7 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Incorporate Microwave Detection system for vehicle detection.
- Provide the Engineer with the Manufacturer's approved Microwave Detection locations and mounting heights to obtain detection zones as shown.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset #: 0215.



OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	10	7	7
Extension 1 *	2.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0
Max Green 1 *	20	60	20	30	20	60	20	30
Yellow Clearance	3.0	4.5	3.0	3.8	3.0	4.5	3.0	3.8
Red Clearance	2.4	1.6	2.9	2.1	2.3	1.6	2.4	2.1
Red Revert	2.0	2.0	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	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.



Signal Upgrade
 Temporary Design 1
 Construction Phase 1

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	Prepared for: NC 211 (Howe Street) at NC 87 (River Road)/ SR 1852 (Robert Ruark Drive)		SEAL
	Division 03 Brunswick Co. Southport PLAN DATE: June 2017 PREPARED BY: A.H. Thornburg REVIEWED BY: A.D. Klinksiek	REVIEWED BY: N.R. Simmons	
SCALE 0 50 1"=50'	REVISIONS INITI. DATE		SIGNATURE DATE Natasha Simmons 9/10/2021 SIG. INVENTORY NO. 03-0215T1