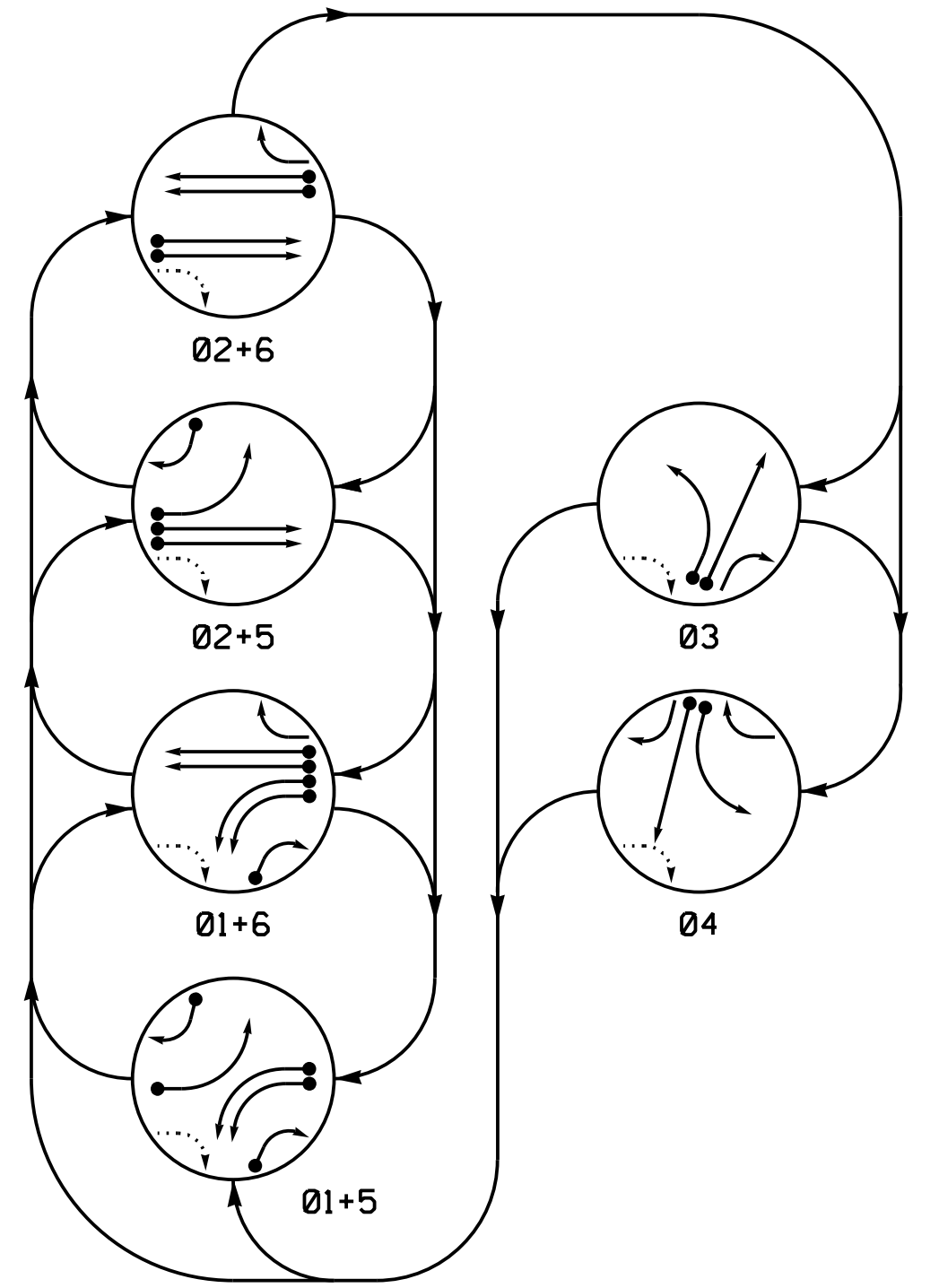


PHASING DIAGRAM



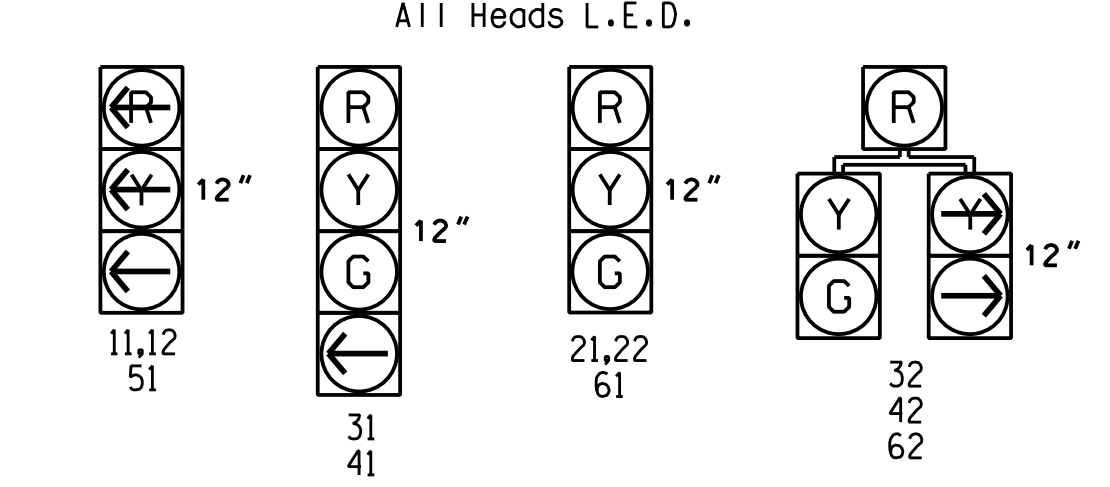
PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ⋯ UNSIGNALIZED MOVEMENT
- ⚡ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	03	04	
11,12							
21,22	R	R	G	G	R	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
41	R	R	R	R	G	R	R
42	R	R	R	R	G	R	R
51							
61	R	G	R	G	R	R	Y
62	R	G	R	G	R	R	Y

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

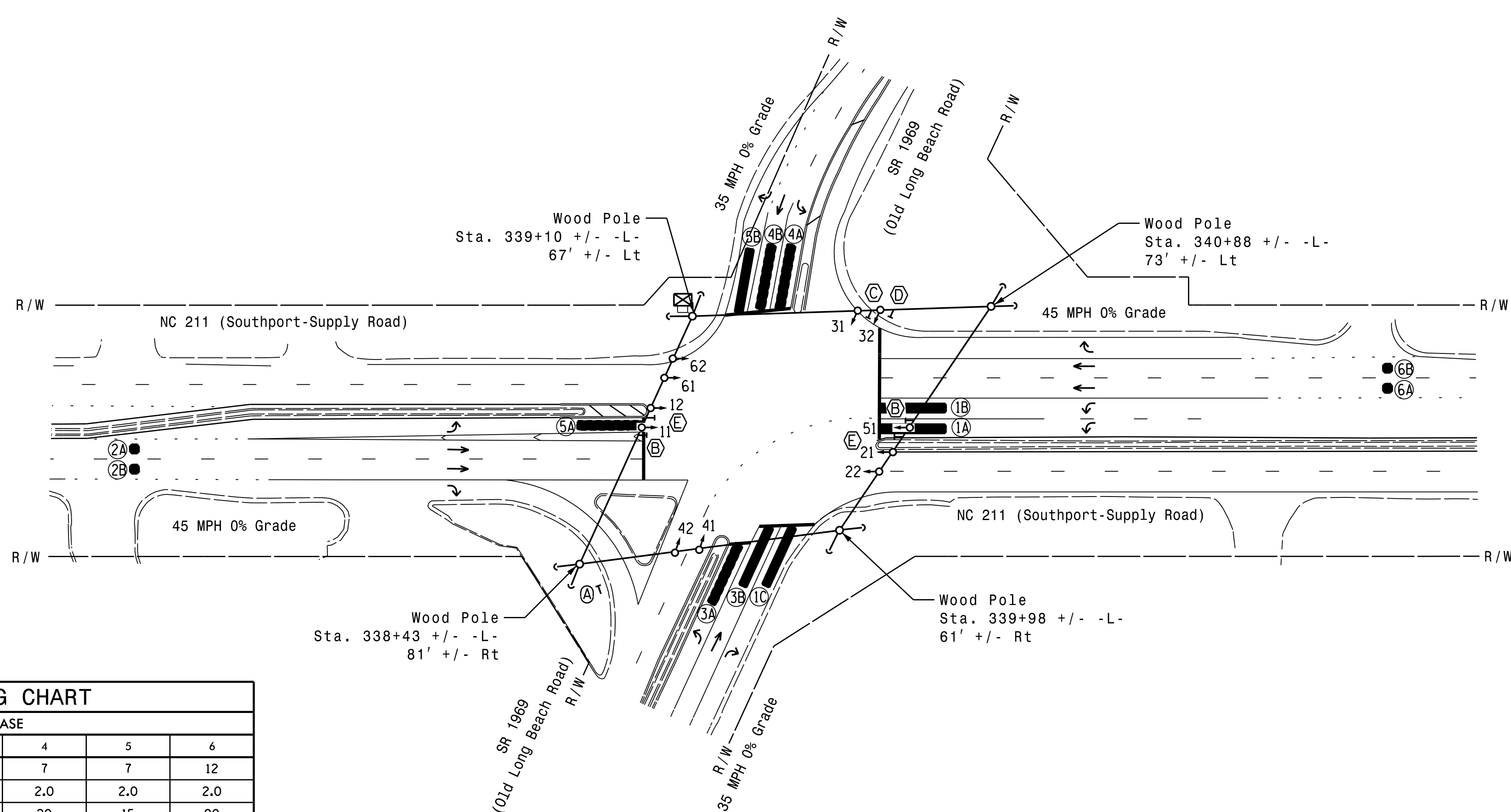
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY			
1A	6X40	0	*	*	1	Y	Y	-	-	-	Y
1B	6X40	0	*	*	1	Y	Y	-	-	-	Y
1C	6X40	0	*	*	1	Y	Y	-	-	15	Y
2A	6X6	300	*	*	2	Y	Y	-	-	-	Y
2B	6X6	300	*	*	2	Y	Y	-	-	-	Y
3A	6X40	0	*	*	3	Y	Y	-	-	-	Y
3B	6X40	0	*	*	3	Y	Y	-	-	-	Y
4A	6X40	0	*	*	4	Y	Y	-	-	-	Y
4B	6X40	0	*	*	4	Y	Y	-	-	-	Y
5A	6X40	0	*	*	5	Y	Y	-	-	-	Y
5B	6X40	0	*	*	5	Y	Y	-	-	15	Y
6A	6X6	300	*	*	6	Y	Y	-	-	-	Y
6B	6X6	300	*	*	6	Y	Y	-	-	-	Y

* Multizone Microwave Detection.

6 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 or 5 may be lagged.
- The order of phase 3 and phase 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.
- The cabinet should be designed to include an Auxiliary Output File for future use.
- 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: Master Asset #10317 Controller Asset #0626



OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1	2.0	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	15	90	25	20	15	90
Yellow Clearance	3.0	4.5	3.8	3.8	3.0	4.5
Red Clearance	3.3	1.7	2.3	2.3	3.4	1.6
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	-	1.5
Max Variable Initial *	-	34	-	-	-	34
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	45	-	-	-	45
Minimum Gap	-	3.0	-	-	-	3.0
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW
Dual Entry	-	-	-	-	-	-
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.

LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → Traffic Signal Head
○ → Modified Signal Head	N/A
○ → Pedestrian Signal Head With Push Button & Sign	N/A
○ → Signal Pole with Guy	○ → Signal Pole with Guy
○ → Signal Pole with Sidewalk Guy	○ → Signal Pole with Sidewalk Guy
□ → Controller & Cabinet Junction Box	□ → Controller & Cabinet Junction Box
□ → 2-in Underground Conduit	□ → 2-in Underground Conduit
N/A → Right of Way	N/A → Right of Way
→ → Directional Arrow	→ → Directional Arrow
▬ → Microwave Detection Zone	▬ → Microwave Detection Zone
(A) → "YIELD" Sign (R1-2)	(A) → "YIELD" Sign (R1-2)
(B) → "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	(B) → "U-TURN YIELD TO RIGHT TURN" Sign (R10-16)
(C) → Through "ONLY" Sign (R3-5A)	(C) → Through "ONLY" Sign (R3-5A)
(D) → Right Arrow "ONLY" Sign (R3-5R)	(D) → Right Arrow "ONLY" Sign (R3-5R)
(E) → No U-turn "Trucks and Buses" Sign	(E) → No U-turn "Trucks and Buses" Sign

Signal Upgrade
Temporary Design 1
Mobilization

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	NC 211 (Southport-Supply Road) at SR 1969 (Old Long Beach Road)		
	Division 03 Brunswick Co. Southport	PLAN DATE: June 2017 REVIEWED BY: A.D. Klinksiek	
SCALE 0 50 1"=50'	REVISIONS INIT. DATE	SIGNATURE DATE	SIGNATURE DATE

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9/10/2021
SIG. INVENTORY NO. 03-062611