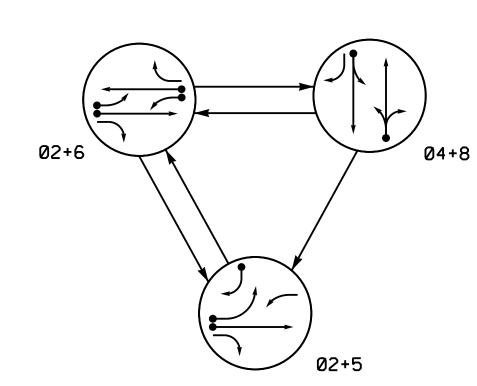
DEFAULT PHASING DIAGRAM



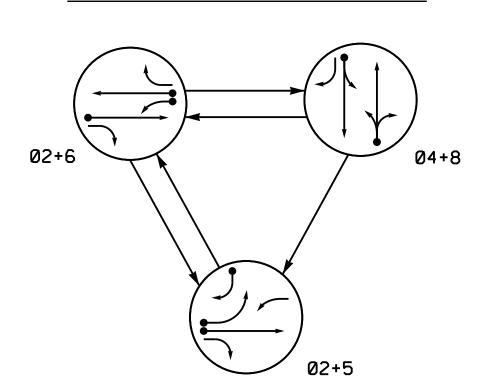
PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT

◆---- PEDESTRIAN MOVEMENT

ALTERNATE PHASING DIAGRAM

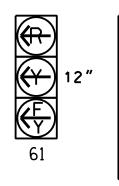


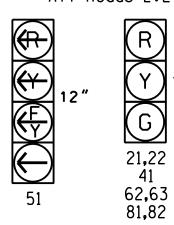
DEFAULT PHASING TABLE OF OPERATION						
		PHA	4SE			
SIGNAL FACE	0 2+5	0 2+6	04+8	FLAOI		
21,22	G	G	R	Υ		
41	R	R	G	R		
42	\mathbb{R}^{\downarrow}	R	G	R		
51	—	나	#	-Y		
61	ц∤≻	누	#	-Y		
62,63	R	G	R	Υ		
81,82	R	R	G	R		

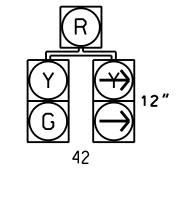
					i e			
ALTERNATE PHASING					OASIS			
TABLE OF	TABLE OF OPERATION					II.		
		PHA	4SE					
SIGNAL FACE	0 2+5	0 + v	04+0	тОФГ		LOOP		
	כ	6	8	H		2A		
21,22	G	G	R	Υ		4A		
41	R	R	G	R		5A		
42	$\mathbb{R}/$	R	G	R				
51	-	₩	₹	- \		5B		
61	Ę Y	₽ ¥	-R	Ψ¥		6 A		
62,63	R	G	R	Y		6B		
						8A		
81,82	R	R	G	R				

SIGNAL FACE I.D.

All Heads L.E.D.







OASIS	OASIS 2070 LOOP & DETECTOR INSTALLATION CHA									AR	Т	
INDUCTIVE LOOPS					DETE	DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2·A	6X6	300	*	*	2	Υ	Υ	ı	1	-	ı	Υ
4A	6X40	0	*	*	4	Υ	Υ	ı	ı	-	ı	Υ
5·A	6X:40	0	*	* *	5	Υ	Υ	-	1	*** 15	ı	Υ
JΆ	0240	U	*		** 2	Υ	Υ	Y	ı	3	ı	Υ
5B	6X40	0	*	*	5	Υ	Υ	ı	ı	15	ı	Υ
6A	6X6	300	*	*	6	Υ	Υ	ı		-	ı	Υ
6B	6X40	0	*	*	6	Υ	Υ	Υ	-	3	-	Υ
8A	6X ⁴ 0	0	*	*	8	Υ	Υ	-	-	-	1	Υ

- * Multizone Microwave Detection.
- ** Disable phase 2 call for 5A during alternate phasing operation.
- *** Reduce delay to 3 seconds during alternate phasing operation.

3 Phase Fully Actuated (NC 133 Closed Loop System)

PROJECT REFERENCE NO.

R-5021

NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 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 not to obstruct sight distance of vehicles turning right on red.
- 6. The Division Traffic Engineer will determine the hours of use for each phasing plan.
- 7. Incorporate Microwave Detection system for vehicle detection.
- 8. Provide the Engineer with the Manufacturer's approved Microwave Detection locations and mounting heights to obtain detection zones as shown.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 10. Closed loop system data: Controller Asset #: 1043.

Wood Pole — — Wood Pole Sta. 359+92 +/- -L-Sta. 361+05 +/- -L-71' +/- Lt 73′ +/- Lt NC 211 (Southport-Supply Road) 45 MPH +3% Grade NC 211 (Southport-Supply Road) 45 MPH -3% Grade Wood Pole -Wood Pole Sta. 359+99 +/- -L-Sta. 361+17 +/- -L-61' +/- Rt 72′ +/- Rt

LEGEND

<u>PROPOSED</u>		<u>EXISTING</u>
\bigcirc	Traffic Signal Head	
O	Modified Signal Head	N/A
\dashv	Sign	\dashv
\uparrow	Pedestrian Signal Head With Push Button & Sign	•
$\bigcirc\!$	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
\triangleright	Controller & Cabinet	K×N K×N
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
	Microwave Detection Zone	
	Construction Zone	N/A
	Construction Barricade	N/A

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

Right Arrow "ONLY" Sign (R3-5R)

Combined Through and Left Arrow Sign (R3-6L)

NC 211 (Southport-Supply Road)

J. Swain Boulevard

Brunswick Co. June 2017 REVIEWED BY: A.D. Klinksiek 750 N.Greenfleid Pkwy.Garner.NC 27529 PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons INIT. DATE

TH CAROL 031464 SIG. INVENTORY NO. 03-1043T

Signal Upgrade Temporary Design 1 Construction Phase

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.

ON

OASIS 2070 TIMING CHART

2.0

30

3.7

2.4

2.0

12

6.0

90

4.8

1.4

2.0

2.5

15

30

3.0

MIN RECALL

YELLOW

FEATURE

Min Green 1 *

Extension 1 *

Max Green 1 *

Red Clearance

Walk 1 *

Don't Walk 1

Seconds Per Actuation

Time Before Reduction

Max Variable Initial *

Time To Reduce *

Vehicle Call Memory

Simultaneous Gap

Minimum Gap

Recall Mode

Dual Entry

Yellow Clearance

PHASE

2.0

25

3.0

2.6

2.0

ON

12

6.0

90

4.8

1.4

2.0

2.5

34

15

30

3.0

MIN RECALL

YELLOW

2.0

30

3.0

3.9

2.0

ON