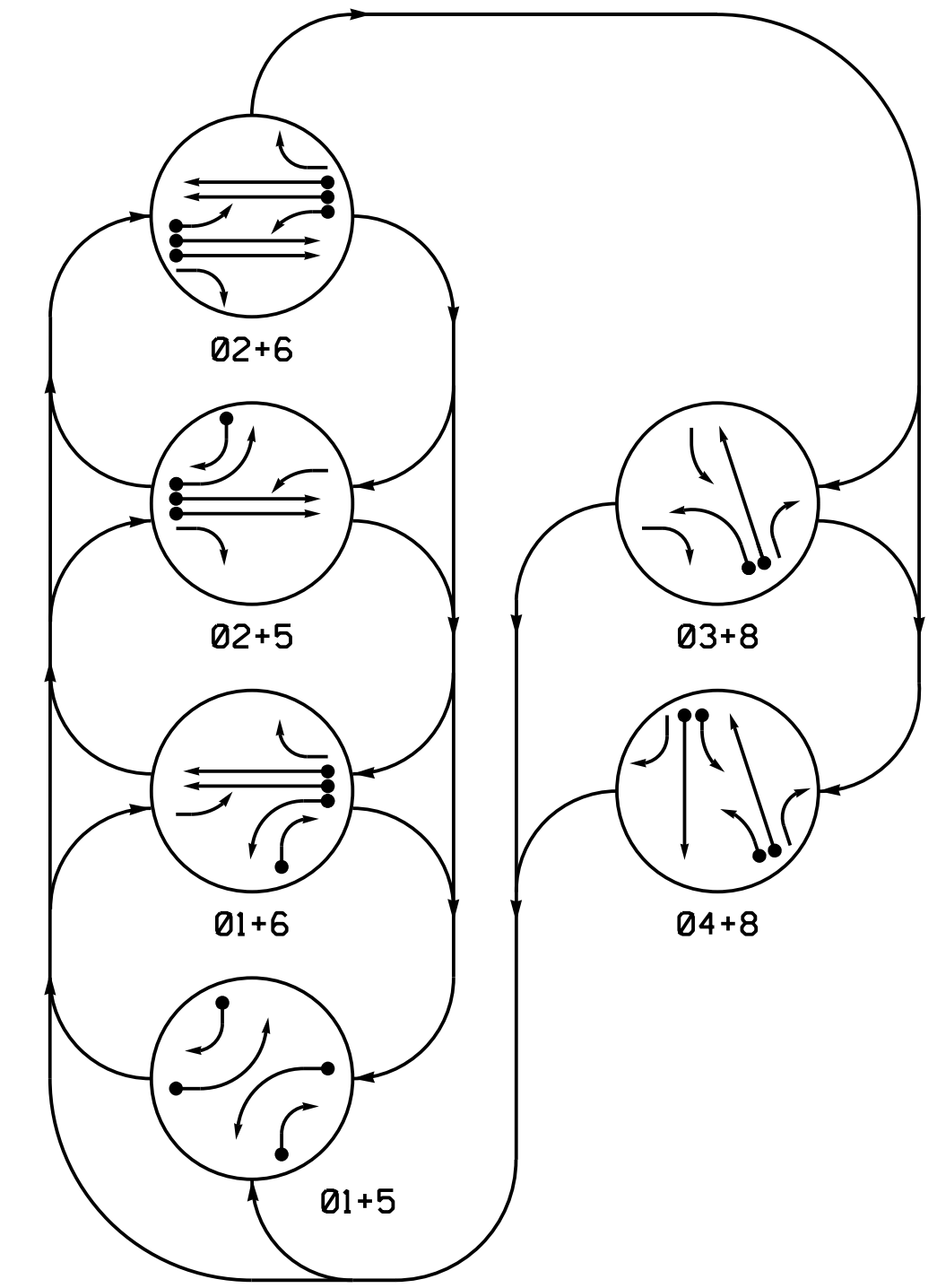
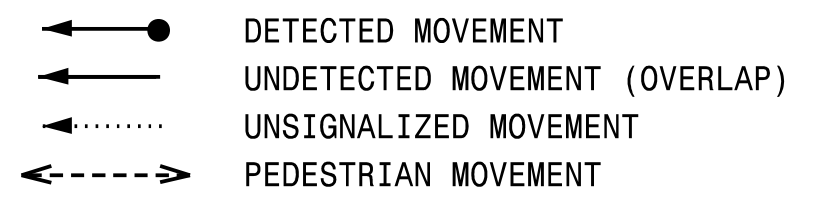


DEFAULT PHASING DIAGRAM



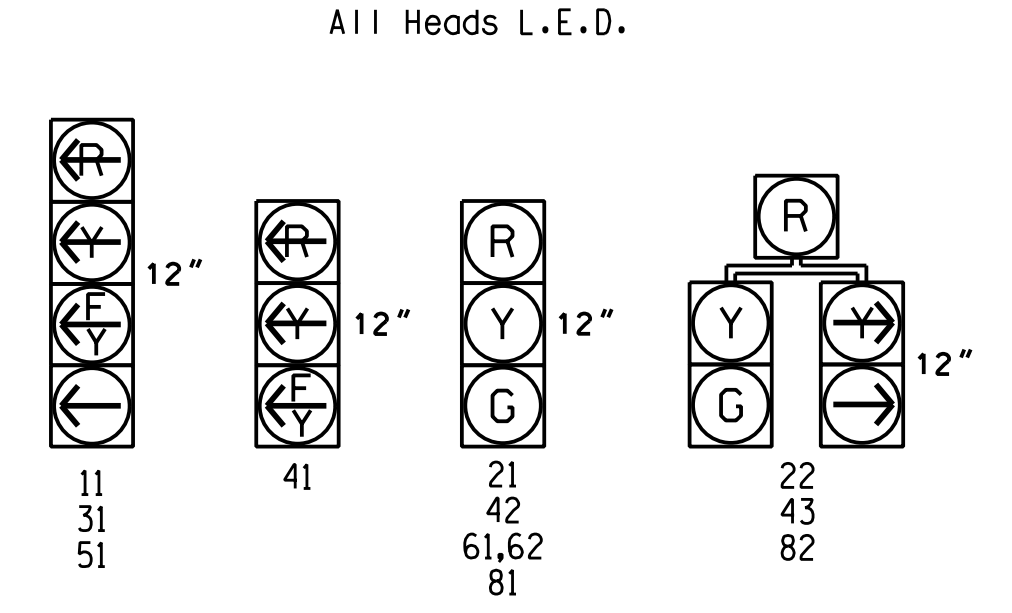
PHASING DIAGRAM DETECTION LEGEND



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE				FLASH
	01+5	02+5	03+8	04+8	
11		F	F	R	Y
21	R	R	G	G	R
22	R	R	G	G	R
31	R	R	R	R	Y
41	R	R	R	R	Y
42	R	R	R	R	G
43	R	R	R	R	G
51		F	F	R	Y
61,62	R	G	R	G	R
81	R	R	R	G	R
82	R	R	R	G	R

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	STRETCH TIME			DELAY TIME
1A	6X40	0	*	*	1	Y	Y	-	***10	-	Y
1B	6X40	0	*	*	1	Y	Y	-	3	-	Y
2A	6X6	300	*	*	2	Y	Y	-	-	-	Y
2B	6X6	300	*	*	2	Y	Y	-	-	-	Y
3A	6X40	0	*	*	3	Y	Y	-	10	-	Y
4A	6X40	0	*	*	4	Y	Y	-	3	-	Y
4B	6X40	0	*	*	4	Y	Y	-	-	-	Y
5A	6X40	0	*	*	5	Y	Y	-	***10	-	Y
5B	6X40	0	*	*	5	Y	Y	-	3	-	Y
6A	6X6	300	*	*	6	Y	Y	-	-	-	Y
6B	6X6	300	*	*	6	Y	Y	-	-	-	Y
8A	6X40	0	*	*	8	Y	Y	-	-	-	Y

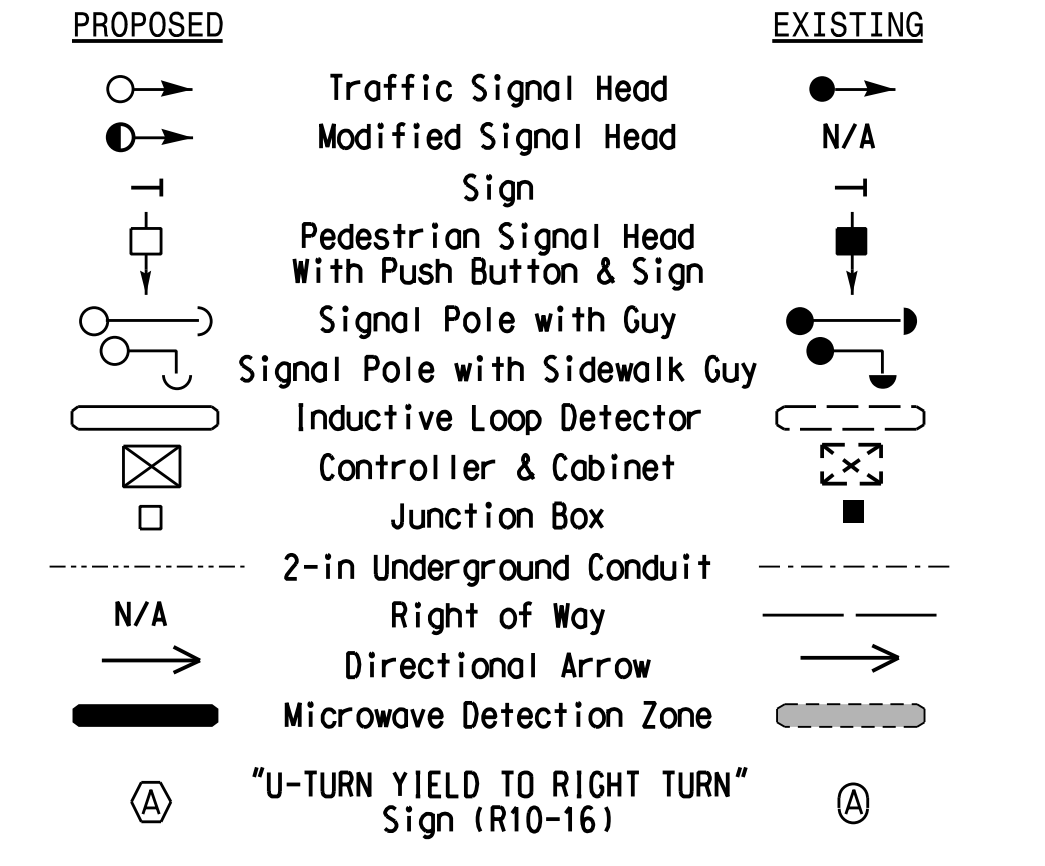
* Multizone Microwave Detection
 ** Disable phase 2 or 6 call for loops 1A and 5A during alternate phasing operation.
 *** Reduce delay to 3 seconds during alternate phasing operation.

6 Phase Fully Actuated Wilmington Signal 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 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.
- Signal system data: Controller Asset #0369

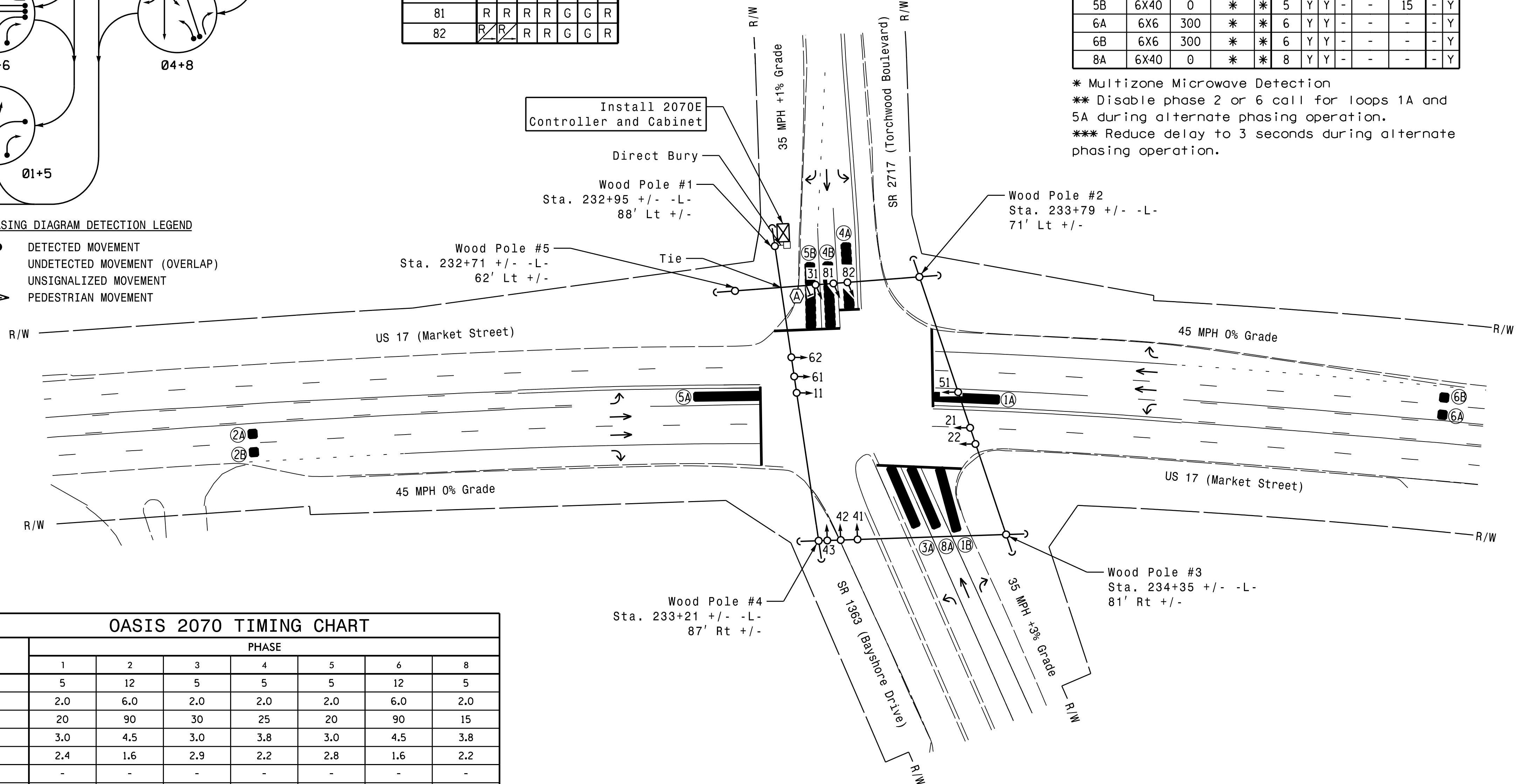
LEGEND



OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	8	
Min Green 1 *	5	12	5	5	5	12	5	
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	
Max Green 1 *	20	90	30	25	20	90	15	
Yellow Clearance	3.0	4.5	3.0	3.8	3.0	4.5	3.8	
Red Clearance	2.4	1.6	2.9	2.2	2.8	1.6	2.2	
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 *	-	30	-	-	-	30	-	
Minimum Gap	-	3.0	-	-	-	3.0	-	
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	
Dual Entry	-	-	-	ON	-	-	ON	
Simultaneous Gap	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 I
 Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

Prepared for: **TRANSPORTATION MOBILITY AND SAFETY DIVISION**
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 Signal Design Section

US 17 (Market Street) at SR 1363 (Bayshore Drive) / SR 2717 (Torchwood Boulevard)

Division 03 New Hanover Co. Wilmington
 PLAN DATE: February 2018 REVIEWED BY: A.D. Klinksiek
 PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons

SCALE: 1" = 40'

REVISIONS: _____ INITI. DATE _____

Seal: **NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464**
 M. T. SIMMONS
 8/1/2018
 SIGNATURE DATE
 SIG. INVENTORY NO. 03-0369T1