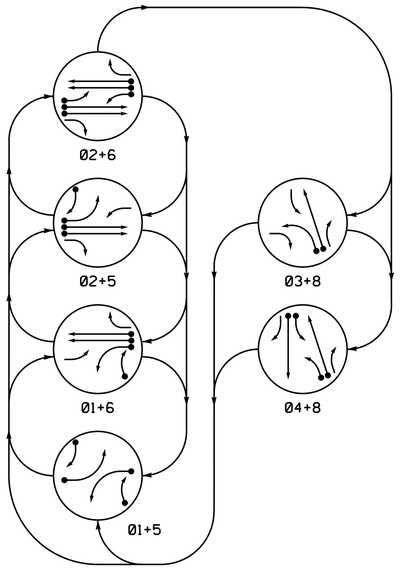
PROJECT REFERENCE NO.	SHEET NO.
U-4902D	Sig. 6.0

DEFAULT PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

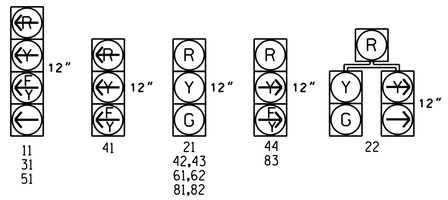
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03+8	04+8	FLASH
11	~~R~~	~~R~~	~~FY~~	~~FY~~	~~R~~	~~R~~	~~Y~~
21	R	R	G	G	R	R	Y
22	R	R	G	G	R/~~R~~	R	Y
31	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FY~~	~~R~~
41	~~R~~	~~R~~	~~R~~	~~R~~	~~FY~~	~~FY~~	~~R~~
42,43	R	R	R	R	R	G	R
44	~~FY~~	R	~~FY~~	R	R	~~FY~~	R
51	~~R~~	~~FY~~	~~R~~	~~FY~~	~~R~~	~~R~~	~~Y~~
61,62	R	G	R	G	R	R	Y
81,82	R	R	R	R	G	G	R
83	~~FY~~	~~FY~~	R	R	~~FY~~	~~FY~~	R

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

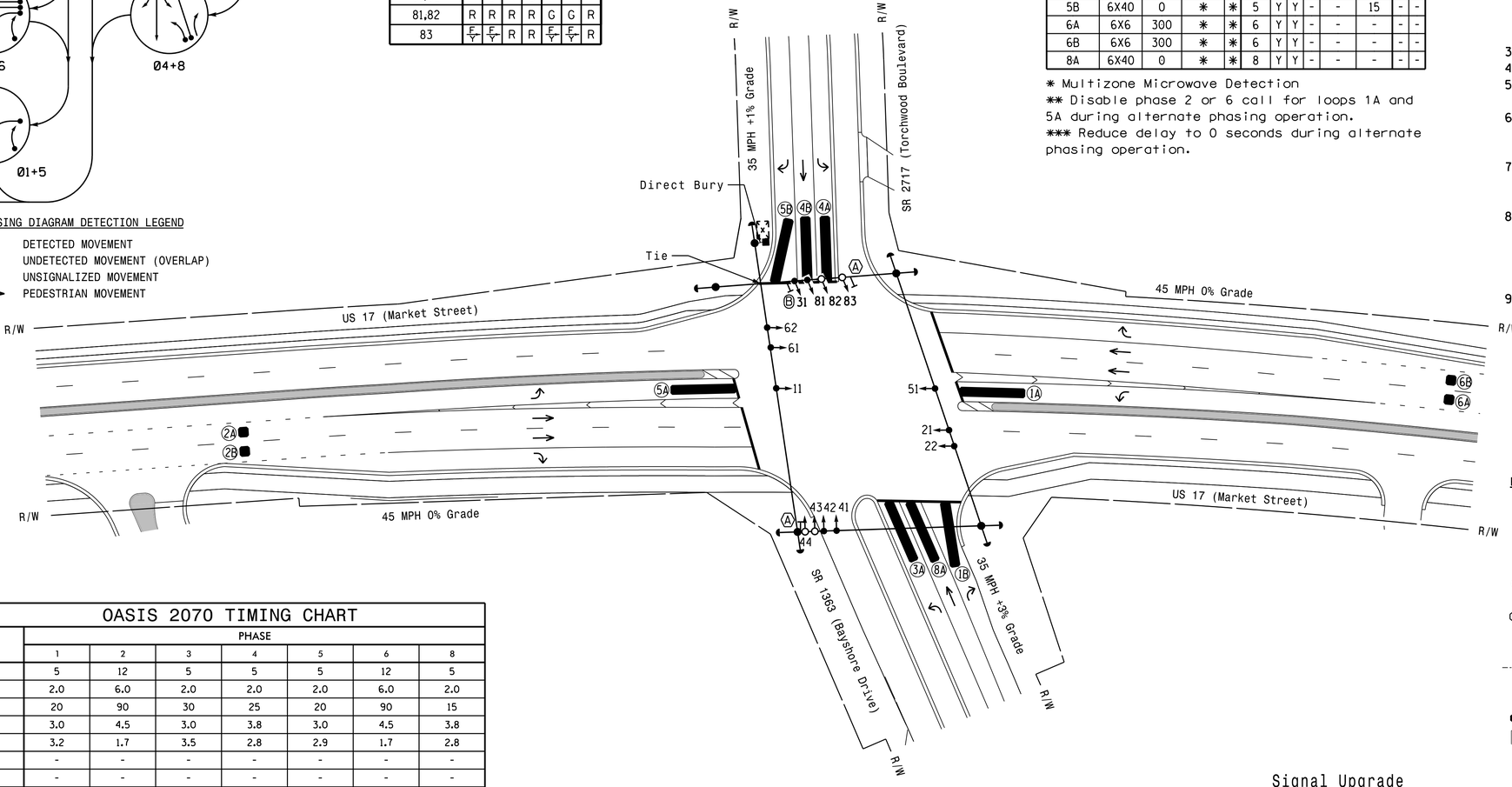
INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	*	*	1	Y	Y	-	-	***10	-	-
					**6	Y	Y	-	-	-	-	-
1B	6X40	0	*	*	1	Y	Y	-	-	15	-	-
2A	6X6	300	*	*	2	Y	Y	-	-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

* Multizone Microwave Detection
** Disable phase 2 or 6 call for loops 1A and 5A during alternate phasing operation.
*** Reduce delay to 0 seconds during alternate phasing operation.

6 Phase
Fully Actuated
Wilmington Signal System

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 1 and/or 5 may be lagged.
4. Phase 3 may be lagged.
5. Set all detector units to presence mode.
6. The Division Traffic Engineer will determine the hours of use for each phasing plan.
7. Reposition existing signal heads numbered 11,21,22,41,51,61,62, and 81.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. Signal system data: Controller Asset #0369



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	3.2	1.7	3.5	2.8	2.9	1.7	2.8
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.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Microwave Detection Zone	
	Construction Zone	N/A
Ⓐ	"RIGHT TURN MUST YIELD TO U-TURN" Sign	Ⓐ
Ⓑ	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	Ⓑ

Signal Upgrade
Temporary Design 3
Construction Phase III
Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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, NCDOT Traffic Engineering Branch, Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

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 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 031464 ENGINEER NATASHA R. SIMMONS

DocuSigned by: Natasha R. Simmons 8/1/2018
SIGNATURE DATE

SIG. INVENTORY NO. 03-0369T3