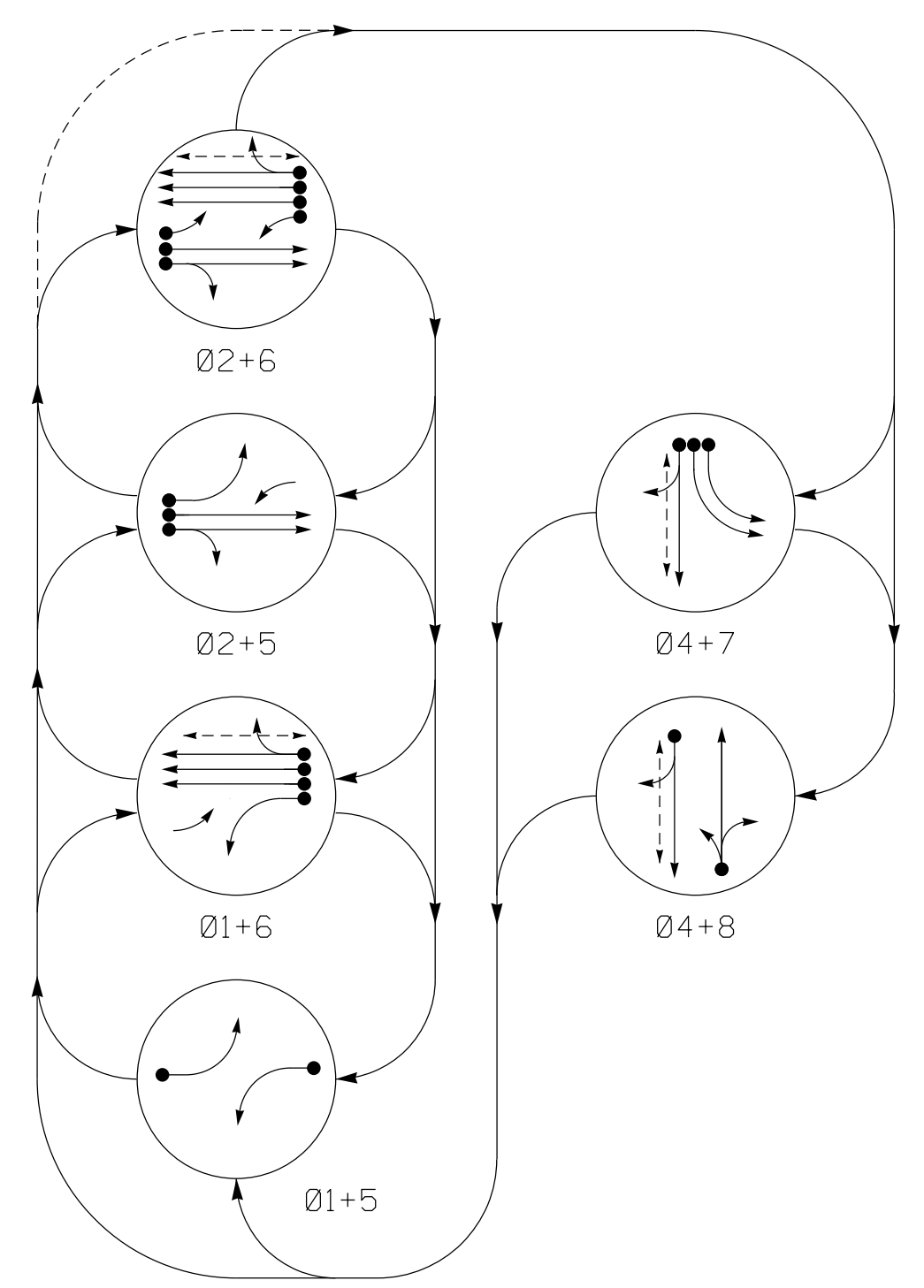


PHASING DIAGRAM



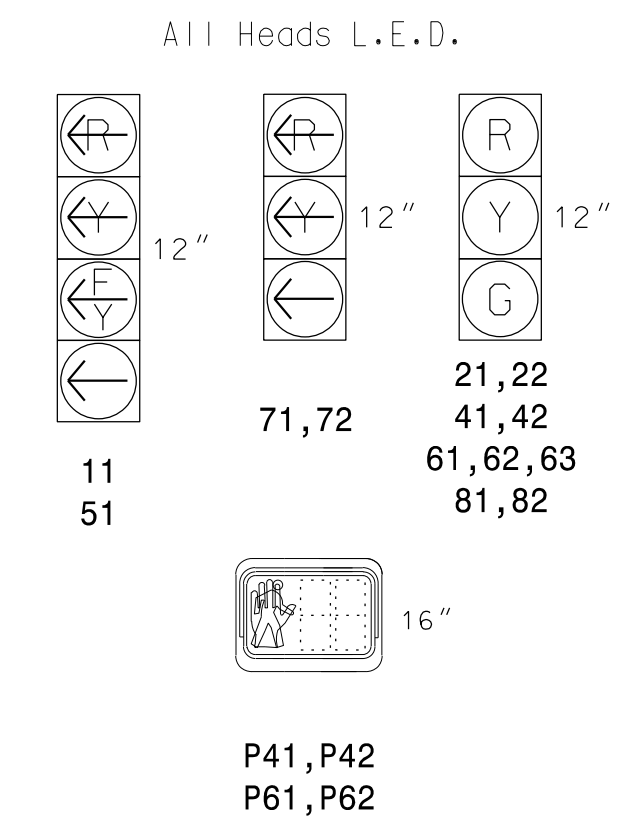
PHASING DIAGRAM DETECTION LEGEND

- ◄● DETECTED MOVEMENT
- ◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄ UNIGNALIZED MOVEMENT
- ◄ PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	02+5	02+6	04+7	04+8	FL	HL	SL
11	←	←	←	←	←	←	←	←
21,22	R	R	G	R	R	Y		
41,42	R	R	R	G	G	R		
51	←	←	←	←	←	←	←	←
61,62,63	R	G	R	G	R	Y		
71,72	←	←	←	←	←	←	←	←
81,82	R	R	R	R	G	R		
P41,P42	DW	DW	DW	W	W	DRK		
P61,P62	DW	W	DW	DW	DW	DRK		

SIGNAL FACE I.D.



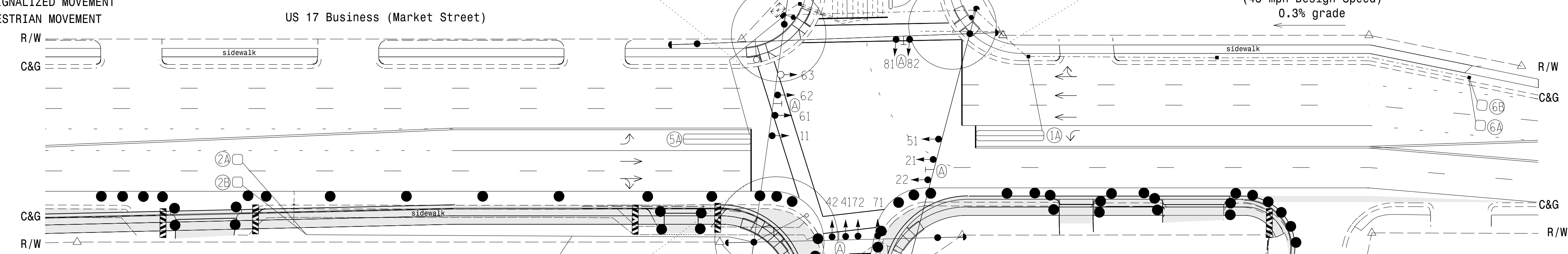
OASIS 2070 LOOP & DETECTOR INSTALLATION

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

6 Phase Fully Actuated (Wilmington Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Omit phase 7 during phase 8 on.
5. Program controller to clear from phase 8 to phase 7 through phase 2 (see Electrical Details).
6. Set all detector units to presence mode.
7. Reposition signal heads numbered 11, 21, 22, 51, 61, 62.
8. Reposition signs for eastbound and westbound approaches.
9. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
10. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
11. Pedestrian Pushbutton and sign shall be mounted parallel with associated crosswalk.
12. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
13. Signal system data: Controller Asset #1081.



40 mph Posted Speed (45 mph Design Speed) -0.3% grade

40 mph Posted Speed (45 mph Design Speed) 0.3% grade

35 mph 0.9% grade

35 mph 0.8% grade

OASIS 2070 TIMING CHART

FEATURE	PHASE							
	1	2	4	5	6	7	8	
Min Green 1 *	7	12	7	7	12	7	7	
Extension 1 *	2.0	6.0	2.0	2.0	6.0	2.0	2.0	
Max Green 1 *	15	100	40	15	100	35	40	
Yellow Clearance	3.0	4.6	3.8	3.0	4.6	3.0	3.8	
Red Clearance	2.8	2.0	2.1	3.6	2.0	3.2	2.6	
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Walk 1 *	-	-	7	-	7	-	-	
Don't Walk 1	-	-	24	-	22	-	-	
Seconds Per Actuation *	-	1.5	-	-	1.5	-	-	
Max Variable Initial *	-	34	-	-	34	-	-	
Time Before Reduction *	-	15	-	-	15	-	-	
Time To Reduce *	-	30	-	-	30	-	-	
Minimum Gap	-	3.2	-	-	3.2	-	-	
Recall Mode	-	SOFT RECALL	-	-	SOFT 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	PROPOSED	EXISTING
2-in Underground Conduit	SS	Traffic Signal Head	●
Sewer Line	T	Sign	◄
UG Telephone Line	G	Pedestrian Signal Head	◄
UG Gas Line		Push Button & Sign	◄
Drainage Pipe		Temporary Pedestrian Post w/ Push Button & Sign	◄
Right of Way		Signal Pole with Guy	●
Street Name Sign		Type II Signal Pedestal	●
Construction Zone		Inductive Loop Detector	◄
Construction Zone Drums		Controller & Cabinet	◄
Construction Zone Cones		Junction Box	◄
Construction Barricade		Oversize Junction Box	◄
		Directional Drill	N/A
		Directional Arrow	→

Signal Upgrade - Temporary Design 2 (TMP Phase III)

Prepared for the Offices of:

US 17 Business (Market Street) at Wilmington Avenue / Wilmington Avenue Extension

Division 03 New Hanover County Wilmington

PLAN DATE: June 2014 REVIEWED BY: LM Moon

PREPARED BY: AM Encarnacion REVIEWED BY: MB Toth

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE 1"=40'

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH

Melissa B. Toth 12/19/2014

SIG. INVENTORY NO. 03-1081T2

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