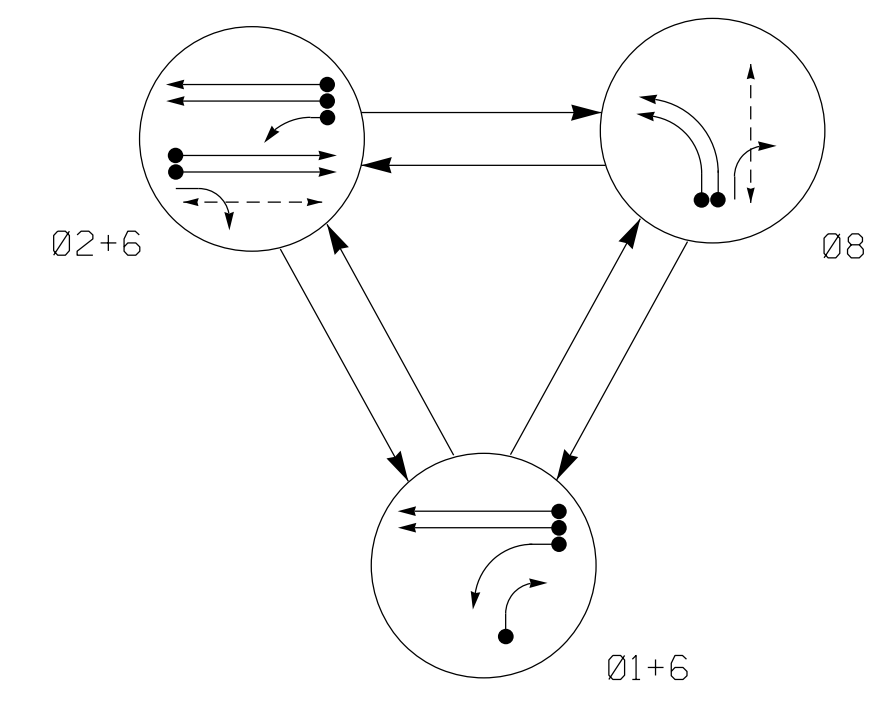


**PHASING DIAGRAM**



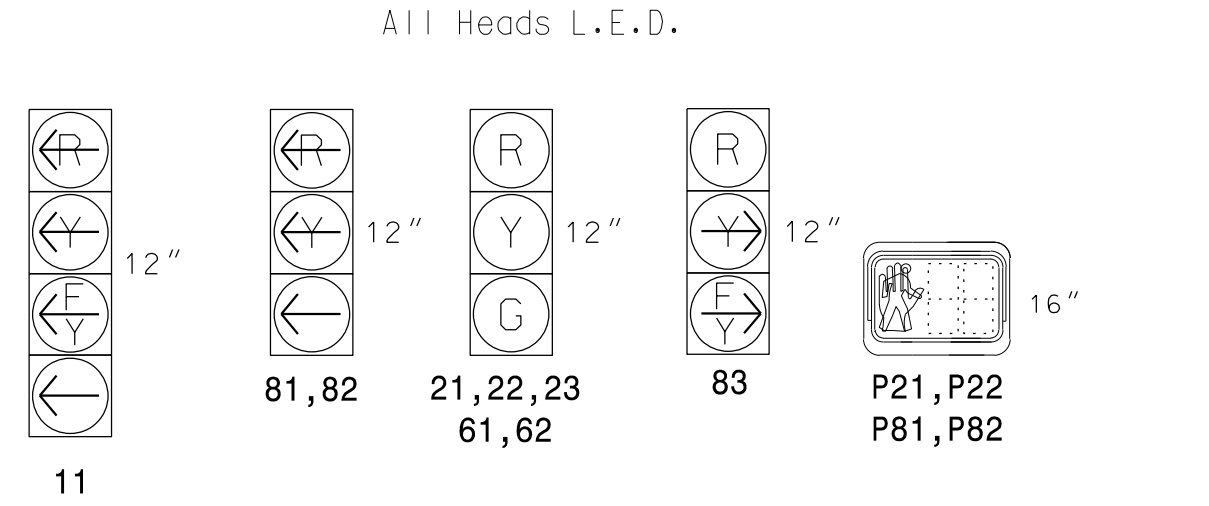
**PHASING DIAGRAM DETECTION LEGEND**

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

**TABLE OF OPERATION**

SIGNAL FACE	PHASE			
	Ø 1 + 6	Ø 2 + 6	Ø 8	FLASH
11	—	—	—	—
21, 22, 23	R	G	R	Y
61, 62	G	G	R	Y
81, 82	R	R	—	—
83	—	R	—	R
P21, P22	DW	W	DW	DRK
P81, P82	DW	DW	W	DRK

**SIGNAL FACE I.D.**



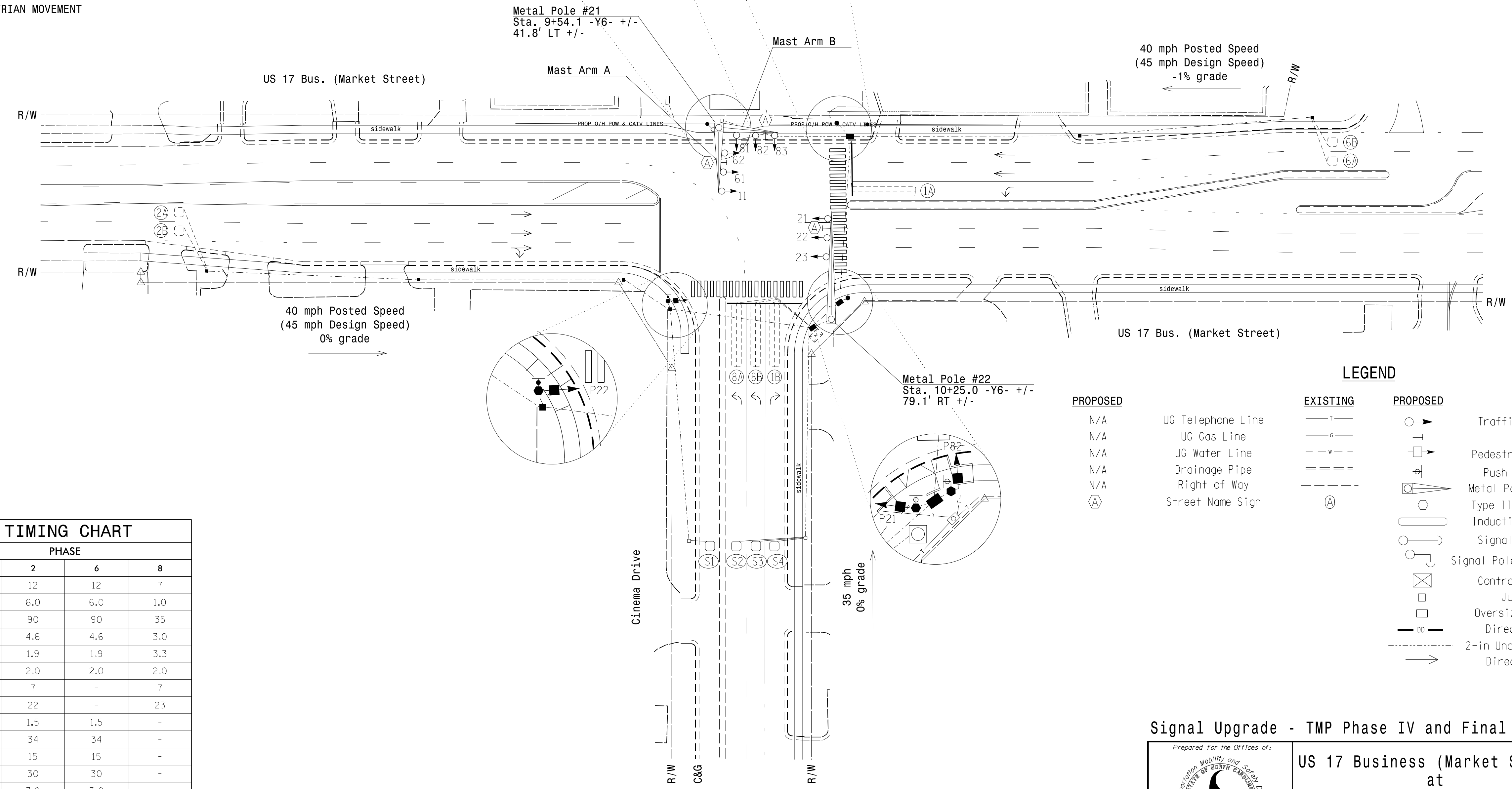
**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	STRETCH TIME		
1A	6x40	0	2-4-2	-	1	Y	Y	-	15	-
1B	6x40	0	2-4-2	-	1	Y	Y	-	15	-
2A	6X6	300	5	-	2	Y	Y	-	-	-
2B	6X6	300	5	-	2	Y	Y	-	-	-
6A	6X6	300	6	-	6	Y	Y	-	-	-
6B	6X6	300	6	-	6	Y	Y	-	-	-
8A	6x40	0	2-4-2	-	8	Y	Y	-	-	-
8B	6x40	0	2-4-2	-	8	Y	Y	-	-	-
S1	6X6	150	4	Y	-	-	-	-	-	Y
S2	6X6	150	4	Y	-	-	-	-	-	Y
S3	6X6	150	4	Y	-	-	-	-	-	Y
S4	6X6	150	4	Y	-	-	-	-	-	Y

**3 Phase Fully Actuated (Wilmington Signal System)**

**NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pedestrian Pushbutton and sign shall be mounted parallel with associated crosswalk.
- 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 #1080.



**OASIS 2070 TIMING CHART**

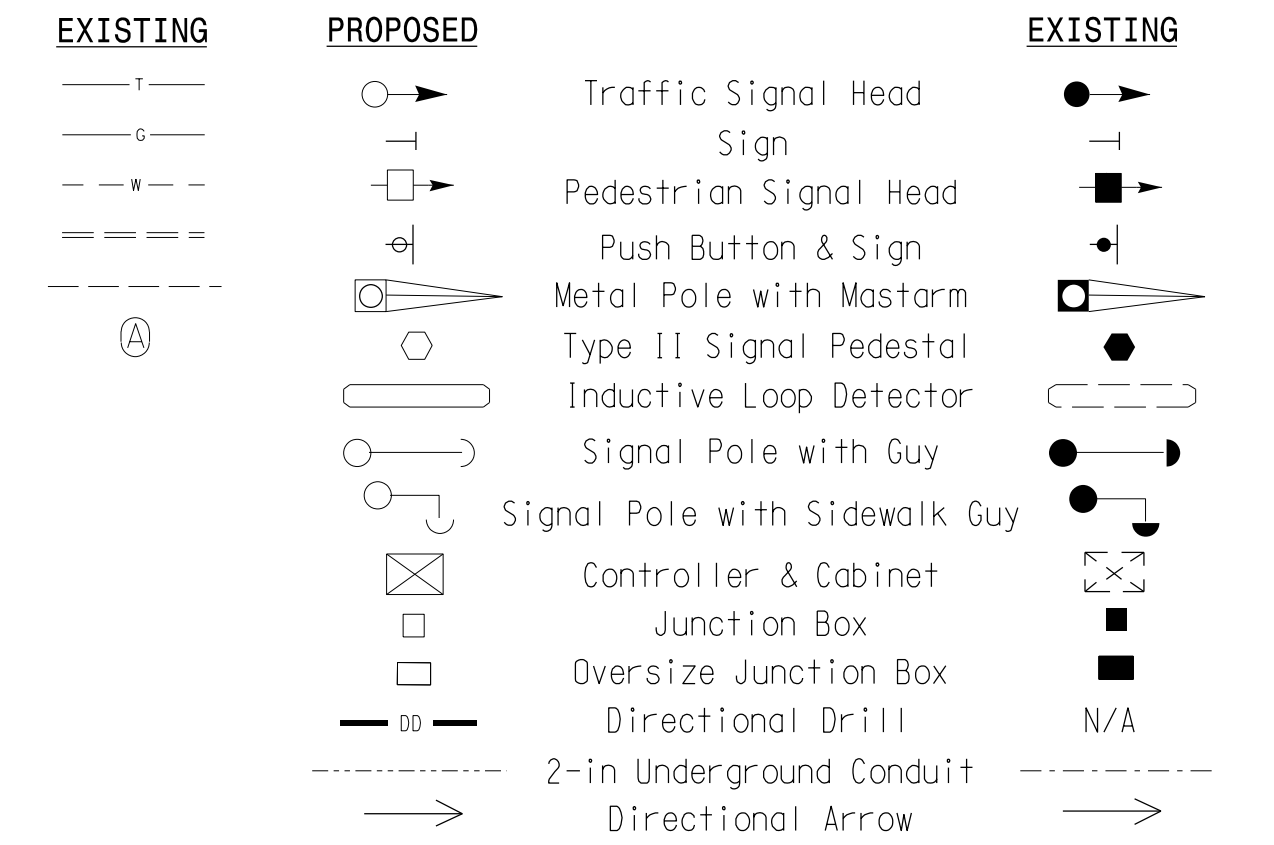
FEATURE	PHASE			
	1	2	6	8
Min Green 1 *	7	12	12	7
Extension 1 *	1.0	6.0	6.0	1.0
Max Green 1 *	20	90	90	35
Yellow Clearance	3.0	4.6	4.6	3.0
Red Clearance	3.5	1.9	1.9	3.3
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	7	-	7
Don't Walk 1	-	22	-	23
Seconds Per Actuation *	-	1.5	1.5	-
Max Variable Initial *	-	34	34	-
Time Before Reduction *	-	15	15	-
Time To Reduce *	-	30	30	-
Minimum Gap	-	3.0	3.0	-
Recall Mode	-	SOFT RECALL	SOFT RECALL	-
Vehicle Call Memory	-	YELLOW	YELLOW	-
Dual Entry	-	-	-	-
Simultaneous Gap	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.

**PROPOSED**

- N/A UG Telephone Line
- N/A UG Gas Line
- N/A UG Water Line
- N/A Drainage Pipe
- N/A Right of Way
- (A) Street Name Sign

**LEGEND**



**Signal Upgrade - TMP Phase IV and Final Design**

1616 EAST MILLBROOK ROAD, SUITE 310  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-8888 NGBEES #F-0326

**US 17 Business (Market Street) at Cinema Drive**

Division 03 New Hanover County Wilmington

PLAN DATE: June 2014 REVIEWED BY: MB Toth

PREPARED BY: AJ Davis REVIEWED BY: LM Moon

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 025892

MELISSA B. TOTH

12/19/2014

SIG. INVENTORY NO. 03-1080

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