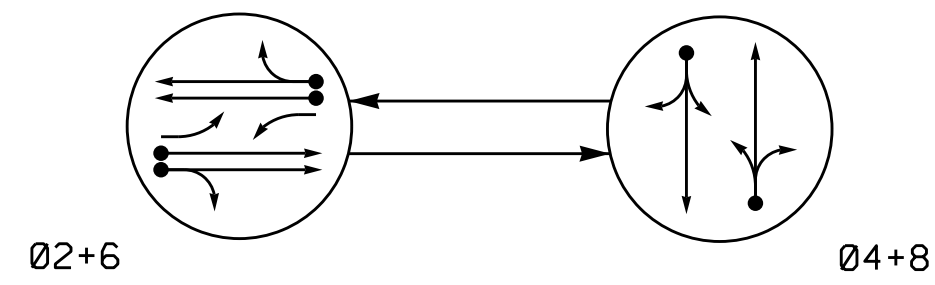


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

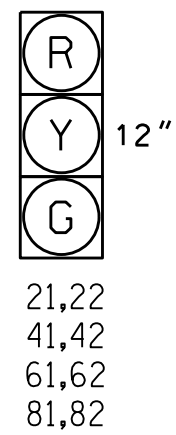
- → DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- - - UNSIGNALIZED MOVEMENT
- ← - - - PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	02+6	04+8	FLIGHT
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y
81,82	R	G	R

**SIGNAL FACE I.D.**

All Heads L.E.D.



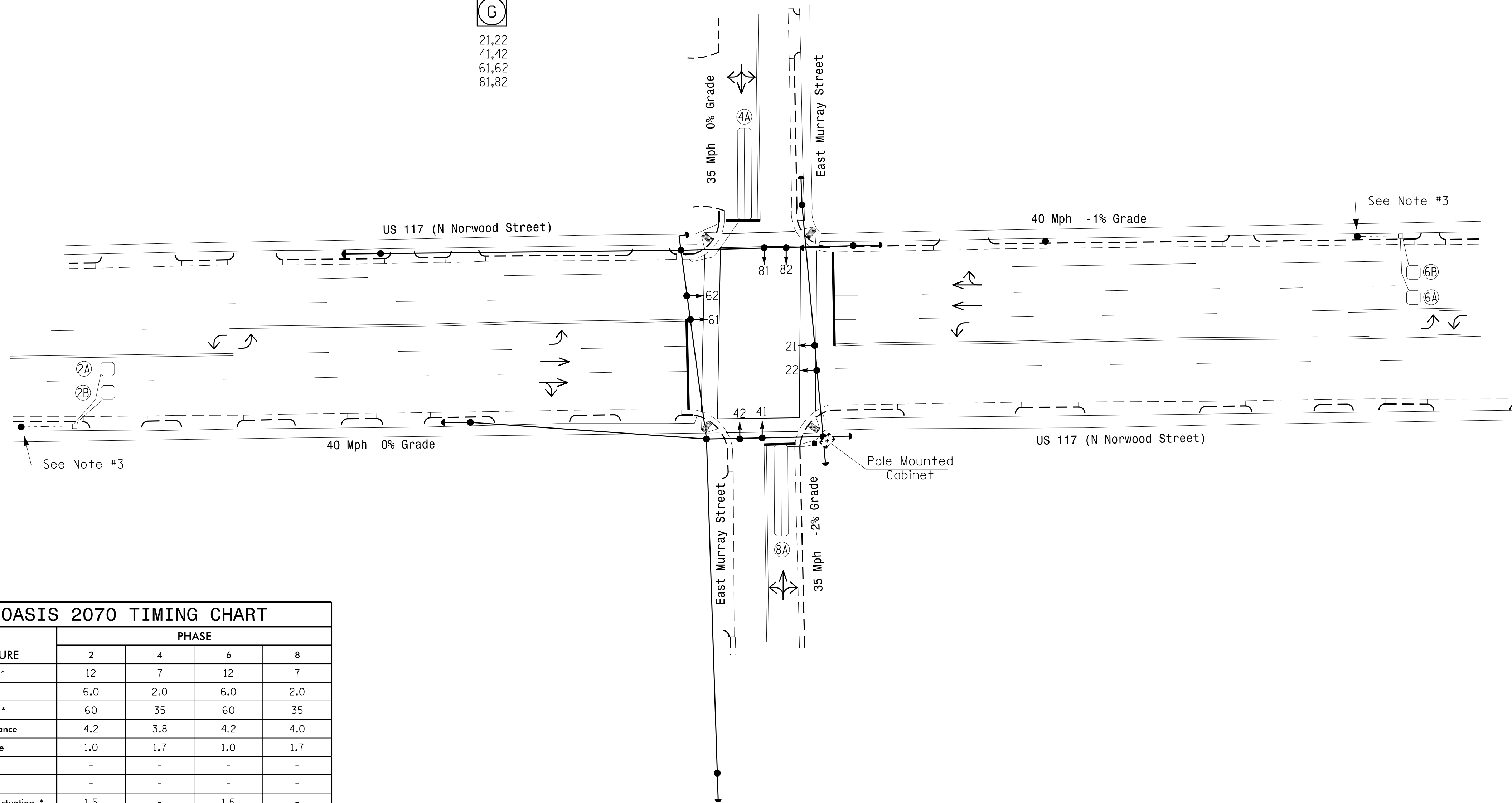
**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	INDUCTIVE LOOPS			DETECTOR PROGRAMMING								
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD	
2A	6X6	250	5	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	250	5	Y	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	3	-	-
6A	6X6	250	5	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	250	5	Y	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	3	-	-

2 Phase Fully Actuated US 117 (Wallace) CLS

**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.
- Run all lead-in cable overhead on existing utility poles where possible.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset # 0136.



**OASIS 2070 TIMING CHART**

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	12	7	12	7
Extension 1 *	6.0	2.0	6.0	2.0
Max Green 1 *	60	35	60	35
Yellow Clearance	4.2	3.8	4.2	4.0
Red Clearance	1.0	1.7	1.0	1.7
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	1.5	-	1.5	-
Max Variable Initial *	29	-	29	-
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

\* 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 Traffic Signal Head                            |  | EXISTING Traffic Signal Head |
|  | PROPOSED Modified Signal Head                           |  | EXISTING N/A                 |
|  | PROPOSED Sign   |  | EXISTING N/A                 |
|  | PROPOSED Pedestrian Signal Head With Push Button & Sign |  | EXISTING N/A                 |
|  | PROPOSED Signal Pole with Guy                           |  | EXISTING                     |
|  | PROPOSED Signal Pole with Sidewalk Guy                  |  | EXISTING                     |
|  | PROPOSED Inductive Loop Detector                        |  | EXISTING                     |
|  | PROPOSED Controller & Cabinet                           |  | EXISTING                     |
|  | PROPOSED Junction Box                                   |  | EXISTING                     |
|  | PROPOSED 2-in Underground Conduit                       |  | EXISTING                     |
|  | PROPOSED Right of Way                                   |  | EXISTING                     |
|  | PROPOSED Directional Arrow                              |  | EXISTING                     |
|  | PROPOSED Wheelchair Ramp                                |  | EXISTING                     |

**Signal Upgrade**

	<p>US 117 (N Norwood Street) at East Murray Street</p>		<p>SEAL ALEXANDER, ALEXANDER &amp; ASSOCIATES, INC. ENGINEER 023489</p>
	<p>Division 3 Duplin County Wallace</p>	<p>PLA</p>	
<p>750 N. Greenfield Pkwy, Garner, NC 27529</p>	<p>PLAN DATE: February 2016</p>	<p>PREPARED BY: Jeff Spence</p>	<p>REVIEWED BY: PLA</p>
<p>SCALE 1"=30'</p>	<p>REVISIONS</p>	<p>INIT.</p>	<p>DATE</p>
<p>3/31/2016</p>	<p>DATE</p>	<p>DATE</p>	<p>DATE</p>
<p>SIG. INVENTORY NO. 03-0136</p>	<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		

3D-MSE-2016-10275  
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