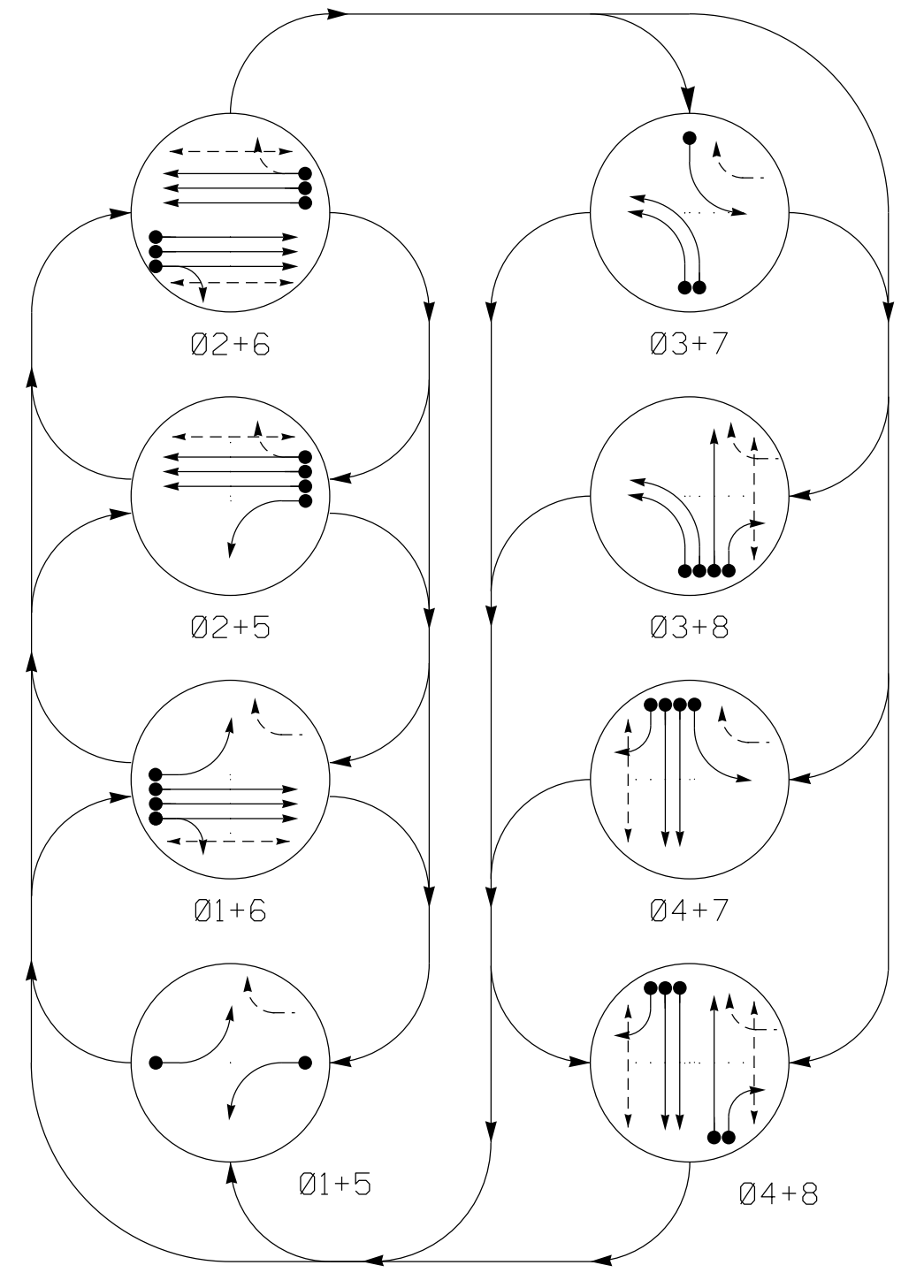


**PHASING DIAGRAM**



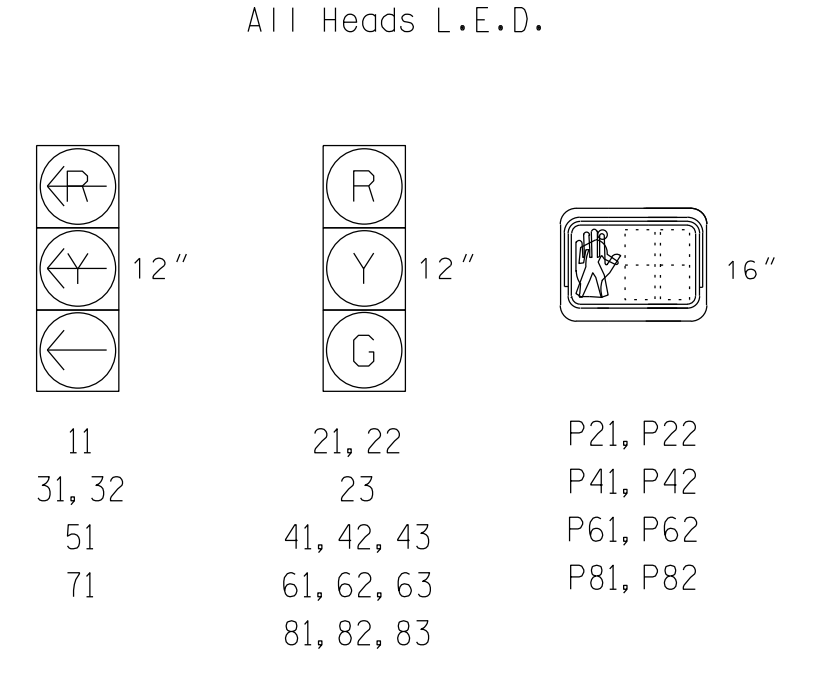
**PHASING DIAGRAM DETECTION LEGEND**

- ◄ ● DETECTED MOVEMENT
- ◄ ◯ UNDETECTED MOVEMENT (OVERLAP)
- ◄ ◯ UNSIGNALIZED MOVEMENT
- ◄ ◄ PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	←	←	←	←	←	←	←	←
21, 22, 23	R	R	G	G	R	R	R	R
31, 32	←	←	←	←	←	←	←	←
41, 42, 43	R	R	R	R	R	G	G	R
51	←	←	←	←	←	←	←	←
61, 62, 63	R	G	R	G	R	R	R	Y
71	←	←	←	←	←	←	←	←
81, 82, 83	R	R	R	R	R	G	G	R
P21, P22	DW	DW	W	DW	DW	DW	DW	DRK
P41, P42	DW	DW	DW	DW	DW	W	W	DRK
P61, P62	DW	W	DW	W	DW	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	DW	W	DRK

**SIGNAL FACE I.D.**



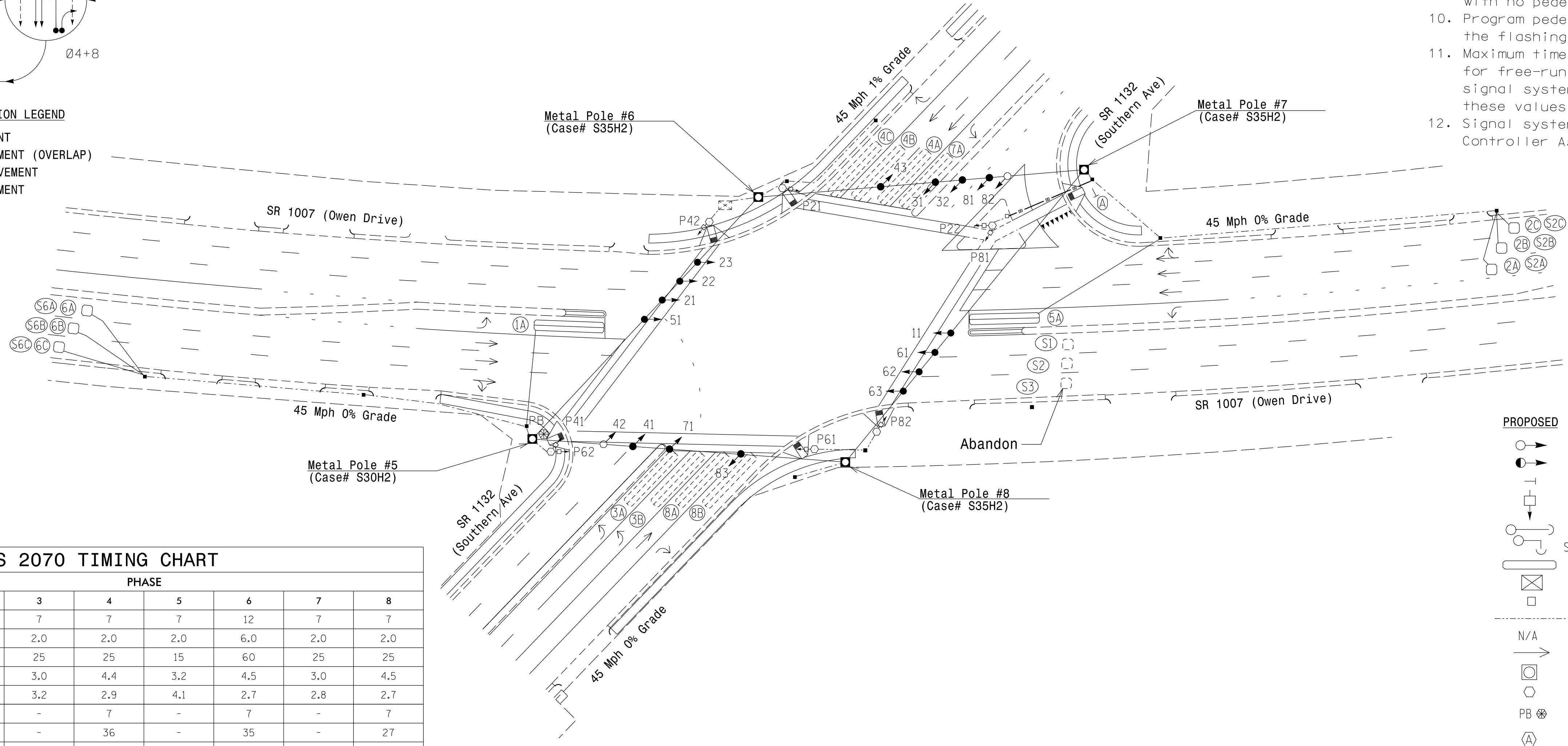
**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING									
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD	
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	-	-	-	-
2A/S2A	6X6	300	4	Y	2	Y	Y	-	-	-	-	Y	-
2B/S2B	6X6	300	4	Y	2	Y	Y	-	-	-	-	Y	-
2C/S2C	6X6	300	4	Y	2	Y	Y	-	-	-	-	Y	-
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	-	-	-	-
3B	6X40	0	2-4-2	-	3	Y	Y	-	-	-	-	-	-
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	-	-
4B	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	-	-
4C	6X40	0	2-4-2	-	4	Y	Y	-	-	-	15	-	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	-	-	-	-
6A/S6A	6X6	300	4	Y	6	Y	Y	-	-	-	-	Y	-
6B/S6B	6X6	300	4	Y	6	Y	Y	-	-	-	-	Y	-
6C/S6C	6X6	300	4	Y	6	Y	Y	-	-	-	-	Y	-
7A	6X40	0	2-4-2	-	7	Y	Y	-	-	-	-	-	-
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	-	-	-	-
8B	6X40	0	2-4-2	-	8	Y	Y	-	-	-	15	-	-
S1	DISCONNECT & ABANDON												
S2	DISCONNECT & ABANDON												
S3	DISCONNECT & ABANDON												

**8 Phase Fully Actuated Fayetteville 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 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Reposition existing signal heads 11, 21, 22, 23, 51, 61, 62, and 63.
- 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.
- Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 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 #0075.



**OASIS 2070 TIMING CHART**

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max Green 1 *	24	60	25	25	15	60	25	25
Yellow Clearance	3.2	4.5	3.0	4.4	3.2	4.5	3.0	4.5
Red Clearance	4.2	2.5	3.2	2.9	4.1	2.7	2.8	2.7
Walk 1 *	-	7	-	7	-	7	-	7
Don't Walk 1	-	25	-	36	-	35	-	27
Seconds Per Actuation *	-	1.0	-	-	-	1.0	-	-
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	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	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 Traffic Signal Head           |  | Existing Traffic Signal Head           |
|  | Proposed Modified Signal Head          |  | Existing Modified Signal Head          |
|  | Proposed Pedestrian Signal Head        |  | Existing Pedestrian Signal Head        |
|  | Proposed Signal Pole with Guy          |  | Existing Signal Pole with Guy          |
|  | Proposed Signal Pole with Sidewalk Guy |  | Existing Signal Pole with Sidewalk Guy |
|  | Proposed Inductive Loop Detector       |  | Existing Inductive Loop Detector       |
|  | Proposed Controller & Cabinet          |  | Existing Controller & Cabinet          |
|  | Proposed Junction Box                  |  | Existing Junction Box                  |
|  | Proposed 2-in Underground Conduit      |  | Existing 2-in Underground Conduit      |
|  | Proposed Right of Way                  |  | Existing Right of Way                  |
|  | Proposed Directional Arrow             |  | Existing Directional Arrow             |
|  | Proposed Metal Strain Pole             |  | Existing Metal Strain Pole             |
|  | Proposed Type II Pedestal              |  | Existing Type II Pedestal              |
|  | Proposed Pedestrian Pushbutton         |  | Existing Pedestrian Pushbutton         |
|  | Proposed "YIELD" Sign                  |  | Existing "YIELD" Sign                  |

**Signal Upgrade**

4000 WestChase Boulevard, Suite 530  
Raleigh, NC 27607  
NC License No. C-3705

**SR 1007 (Owen Drive) at SR 1132 (Southern Ave)**

Division 6 Cumberland County Fayetteville

PLAN DATE: April 2015 REVIEWED BY: J.L. Lewis

PREPARED BY: D.J. Darity VHB PROJECT NO.: 38286.03

REVISIONS	INIT.	DATE

INIT.	DATE

SIG. INVENTORY NO. 06-0075