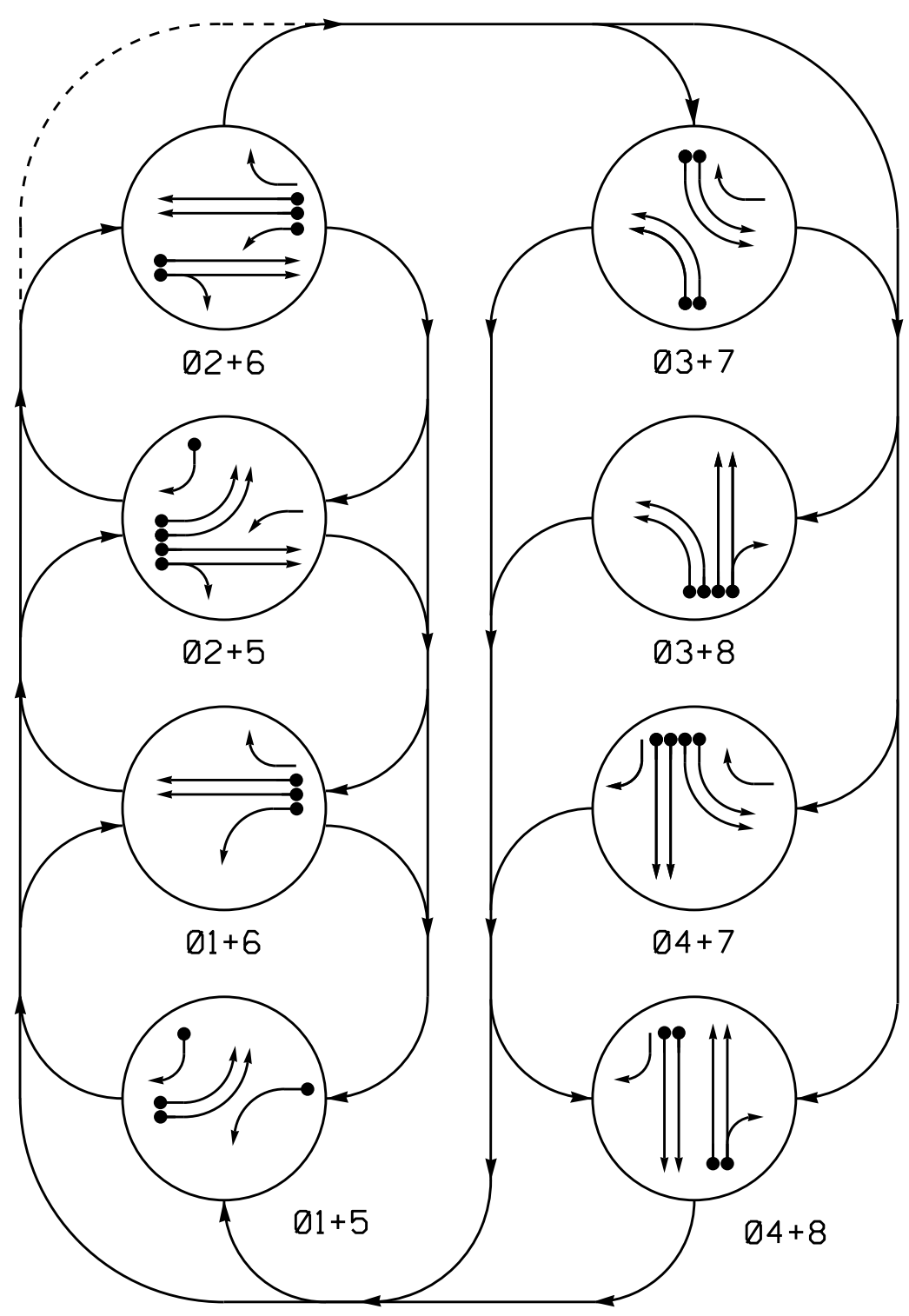


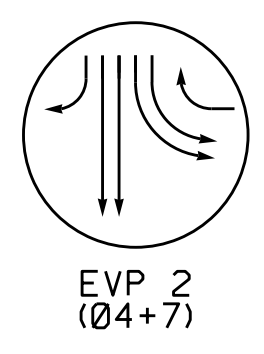
**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

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

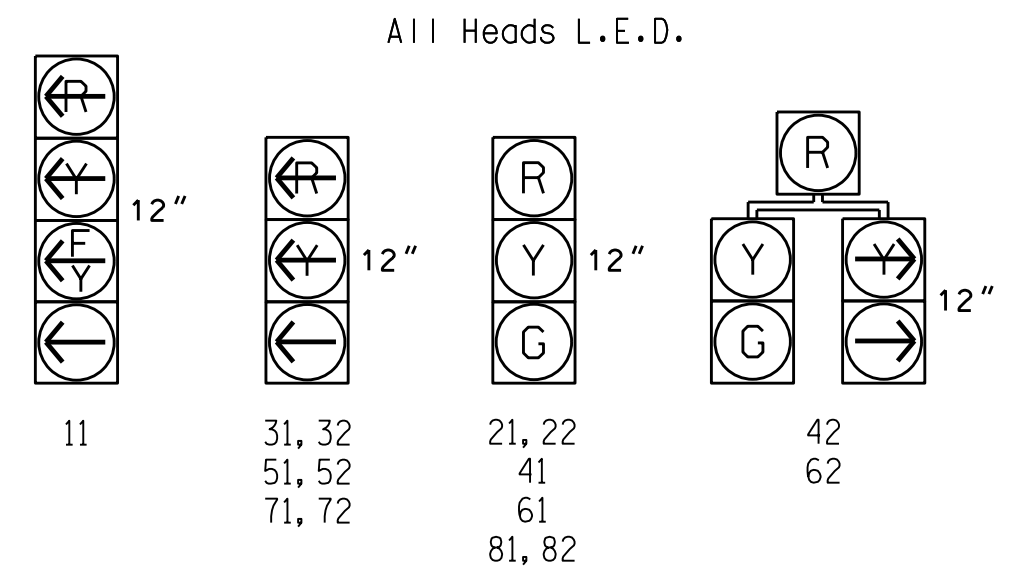
**EV PREEMPT PHASES**  
(Medium Priority)



**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	R	R	G	G	R	R	R	Y
31, 32	R	R	R	R	---	---	---	---
41	R	R	R	R	R	G	G	G
42	R	R	R	R	R	R	G	G
51, 52	---	---	---	---	---	---	---	---
61	R	G	R	G	R	R	R	Y
62	R	G	R	G	R	R	R	Y
71, 72	R	R	R	R	---	---	---	---
81, 82	R	R	R	R	R	G	R	G

**SIGNAL FACE I.D.**



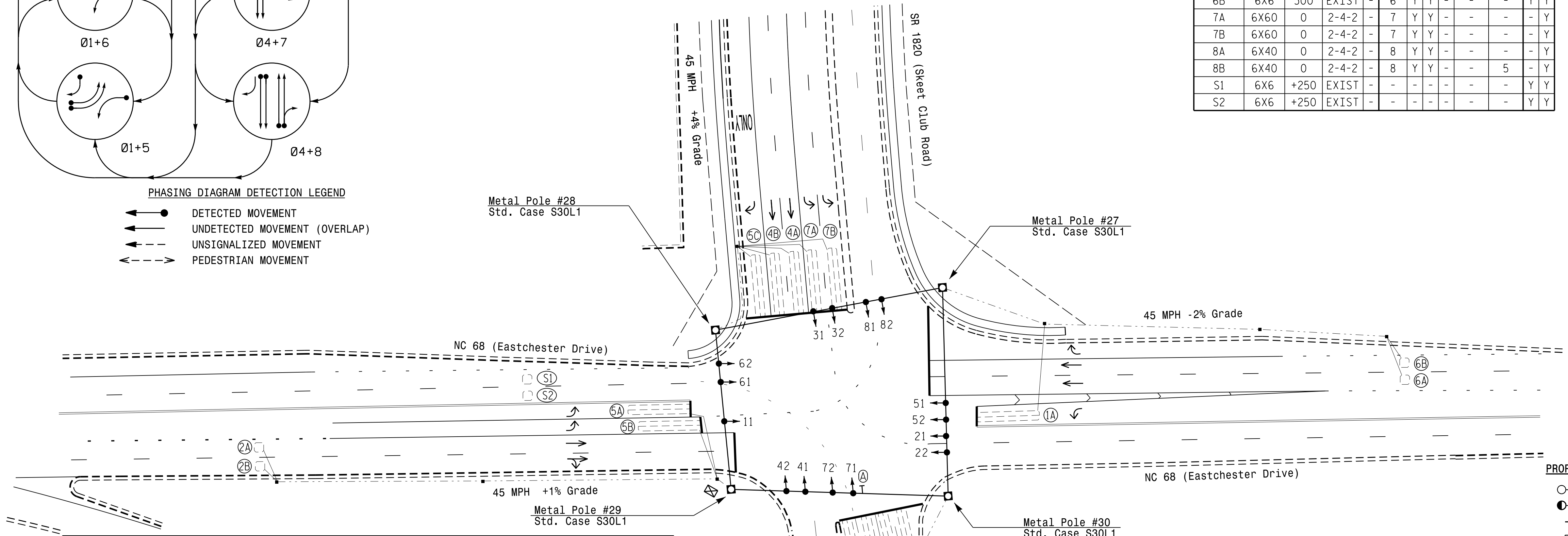
**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	STRETCH TIME			DELAY TIME
1A	6X40	0	2-4-2	-	1	Y	Y	-	15	-	Y
2A	6X6	300	EXIST	-	2	Y	Y	-	-	-	Y
2B	6X6	300	EXIST	-	2	Y	Y	-	-	-	Y
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	-	Y
3B	6X40	0	2-4-2	-	3	Y	Y	-	-	-	Y
4A	6X60	0	2-4-2	-	4	Y	Y	-	-	-	Y
4B	6X60	0	2-4-2	-	4	Y	Y	-	-	-	Y
5A	6X60	0	2-4-2	-	5	Y	Y	-	3	-	Y
5B	6X60	0	2-4-2	-	5	Y	Y	-	-	-	Y
5C	6X60	0	2-4-2	-	5	Y	Y	-	15	-	Y
6A	6X6	300	EXIST	-	6	Y	Y	-	-	-	Y
6B	6X6	300	EXIST	-	6	Y	Y	-	-	-	Y
7A	6X60	0	2-4-2	-	7	Y	Y	-	-	-	Y
7B	6X60	0	2-4-2	-	7	Y	Y	-	-	-	Y
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	-	Y
8B	6X40	0	2-4-2	-	8	Y	Y	-	5	-	Y
S1	6X6	+250	EXIST	-	-	-	-	-	-	-	Y
S2	6X6	+250	EXIST	-	-	-	-	-	-	-	Y

**8 Phase Fully Actuated W/ Emergency Vehicle Preemption (High Point 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.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- Emergency vehicle preemption switch is located in High Point Fire Station 10.
- The Division Traffic Engineer will determine the Delay before Preempt and Preempt Dwell Min Green time for the emergency vehicle preemption timing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

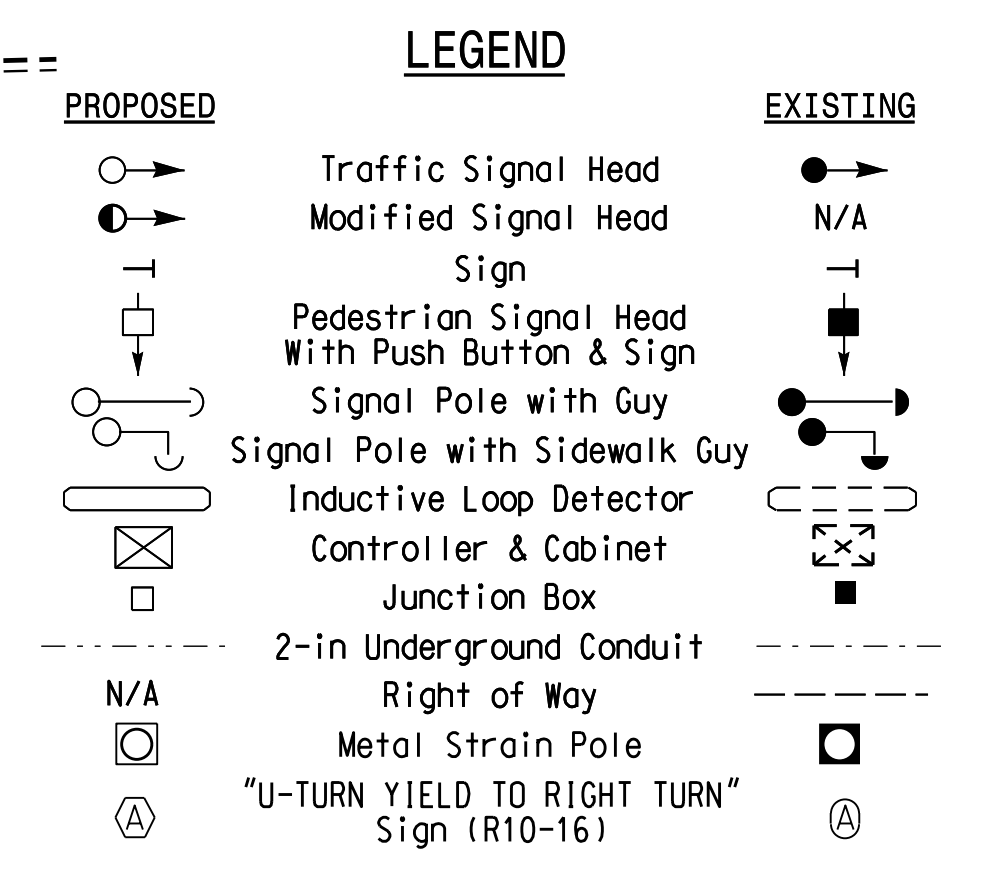


**OASIS 2070 TIMING CHART**

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 *	15	120	15	30	15	120	15	30
Yellow Clearance	3.0	4.7	3.0	4.2	3.0	4.7	3.0	4.6
Red Clearance	3.3	1.9	3.5	1.6	3.7	1.9	3.4	1.6
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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 **	-	SOFT RECALL	-	-	-	SOFT RECALL	-	-
Vehicle Call Memory	-	YELLOW	-	-	-	YELLOW	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	ON	ON	ON	ON

**OASIS 2070 EV PREEMPT**

FUNCTION	EVP 2
Interval 1 - Dwell Green	255
Interval 1 - Dwell Yellow	0.0*
Interval 1 - Dwell Red	0.0*
Interval 5 - Exit Green	1
Interval 5 - Yellow	0.0
Interval 5 - Red	0.0
Exit Phase(s)	2+6
Priority	MED
Delay Time	**
Min Green Before Pre	1
Ped Clear Before Pre	0
Yellow Clear Before Pre	0.0*
Red Clear Before Pre	0.0*
Dwell Min Time	**
Dwell Max Time (Min)	2
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	-



\* 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.  
\*\* May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer.

\* Time defaults to time used for phase during normal operation  
\*\* See Note 9

**Signal Upgrade**

Prepared In the Offices of:  
  
 TRANSPORTATION MOBILITY AND SAFETY SOLUTIONS, INC.  
 ENGINEERS OF TRANSPORTATION SIGNAL DESIGN SECTION  
 750 N. Greenfield Pkwy, Garner, NC 27529

**NC 68 (Eastchester Drive) at SR 1541 (W. Wendover Avenue) and SR 1820 (Skeet Club Road)**  
 Division 7 Guilford County High Point  
 PLAN DATE: November 2014 PREPARED BY: I. O. Umozurike REVIEWED BY:  
 REVISIONS: \_\_\_\_\_ INIT. DATE: \_\_\_\_\_

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 026486  
 ROBERT J. ZIMMERMAN  
 3/4/2015  
 DATE  
 SIG. INVENTORY NO. 07-0493

SCALE 0 40  
 1"=40'

03-MAR-2015 15:18  
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