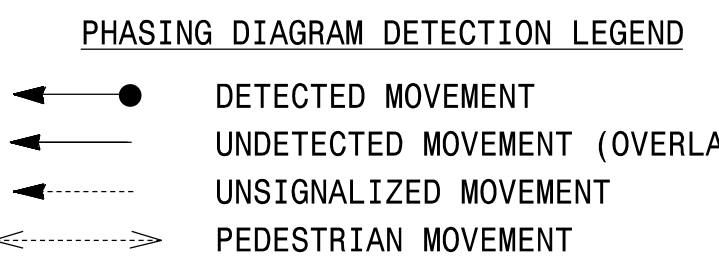
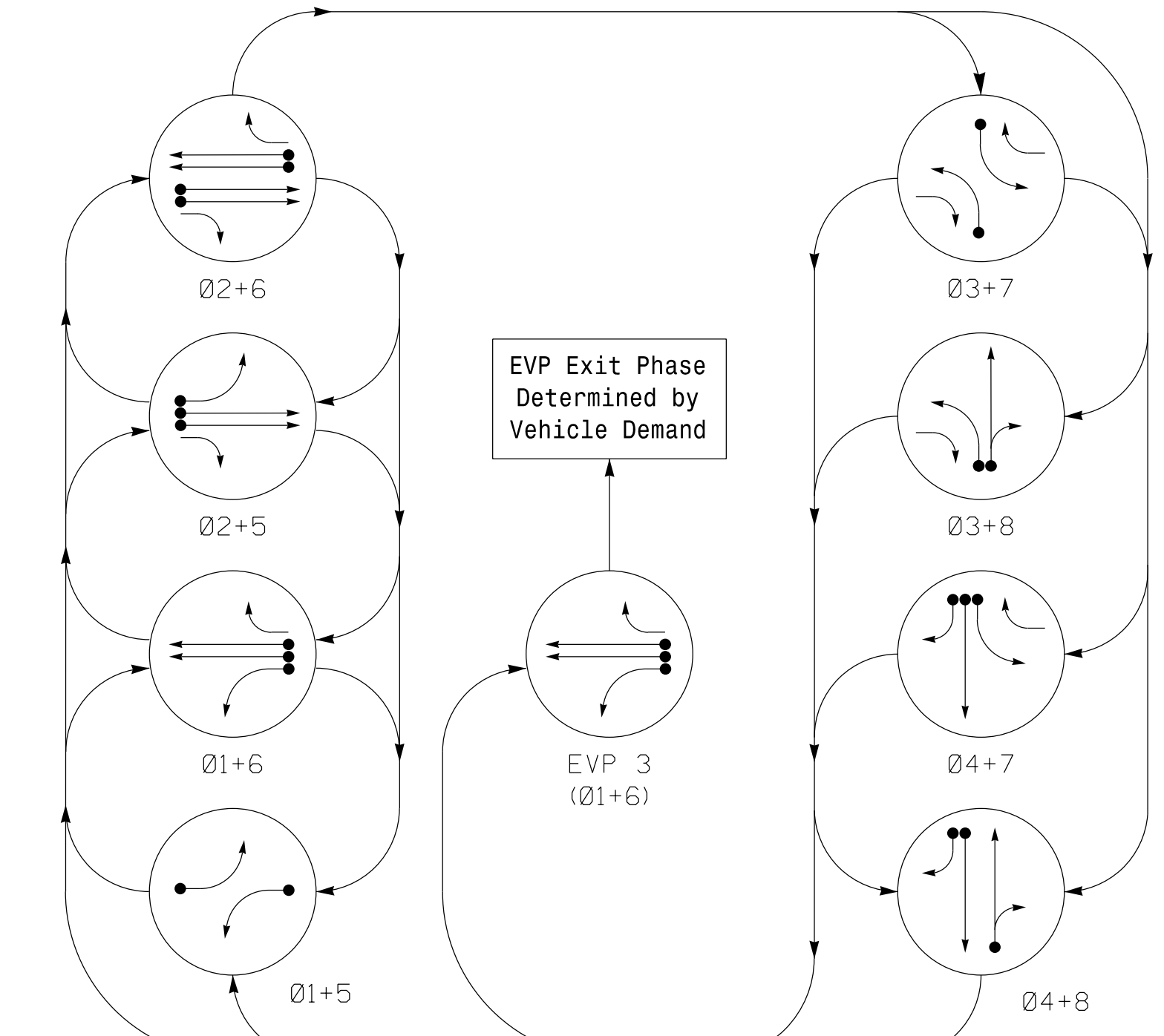


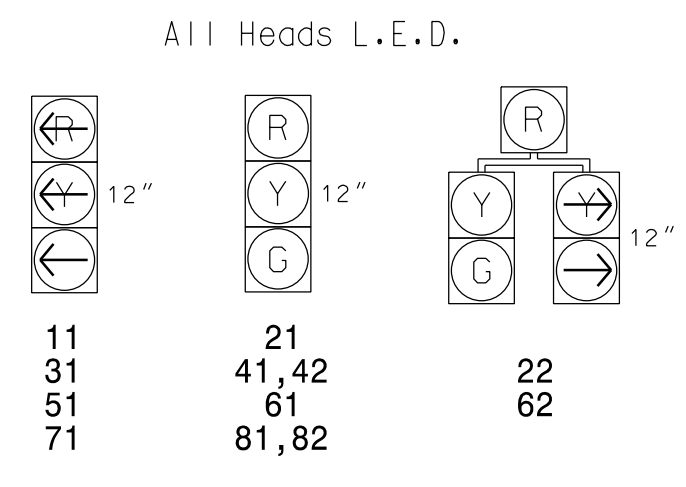
**PHASING DIAGRAM**



**TABLE OF OPERATION**

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	←	←	←	←	←	←	←	←
21	R	R	G	G	R	R	R	Y
22	R	R	G	G	R	R	R	Y
31	←	←	←	←	←	←	←	←
41, 42	R	R	R	R	R	R	G	R
51	←	←	←	←	←	←	←	←
61	R	G	R	G	R	R	R	G
62	R	G	R	G	R	R	R	G
71	←	←	←	←	←	←	←	←
81, 82	R	R	R	R	R	G	R	G

**SIGNAL FACE I.D.**



**OASIS 2070 DETECTION ZONE INSTALLATION**

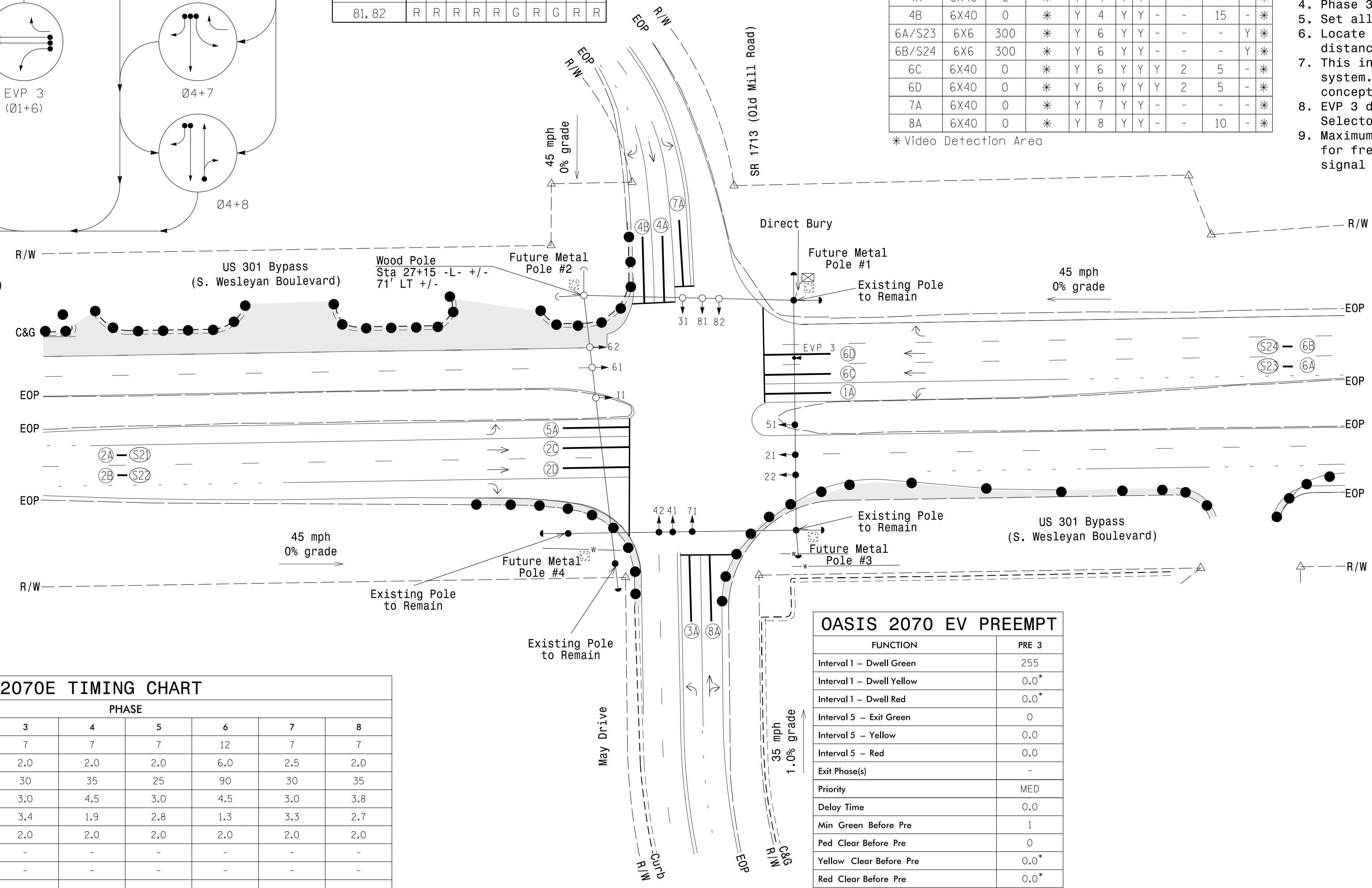
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	*	Y	1	Y	Y	-	-	-	-	*
2A/S21	6X6	300	*	Y	2	Y	Y	-	-	-	-	Y
2B/S22	6X6	300	*	Y	2	Y	Y	-	-	-	-	Y
2C	6X40	0	*	Y	2	Y	Y	Y	2	5	-	*
2D	6X40	0	*	Y	2	Y	Y	Y	2	5	-	*
3A	6X40	0	*	Y	2	Y	Y	-	-	-	-	*
4A	6X40	0	*	Y	4	Y	Y	-	-	-	-	*
4B	6X40	0	*	Y	4	Y	Y	-	-	15	-	*
6A/S23	6X6	300	*	Y	6	Y	Y	-	-	-	-	Y
6B/S24	6X6	300	*	Y	6	Y	Y	-	-	-	-	Y
6C	6X40	0	*	Y	6	Y	Y	Y	2	5	-	*
6D	6X40	0	*	Y	6	Y	Y	Y	2	5	-	*
7A	6X40	0	*	Y	7	Y	Y	-	-	-	-	*
8A	6X40	0	*	Y	8	Y	Y	-	-	10	-	*

\* Video Detection Area

**8 Phase W/ EV Preempt Fully Actuated Rocky Mount 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 loop emulators units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
- EVP 3 detector is existing. Reuse existing Phase Selector. See Project Special Provisions.
- Maximum times shown in timing charts are for free-run operation only. Coordinated signal timing values supersede these values.



**OASIS 2070E TIMING CHART**

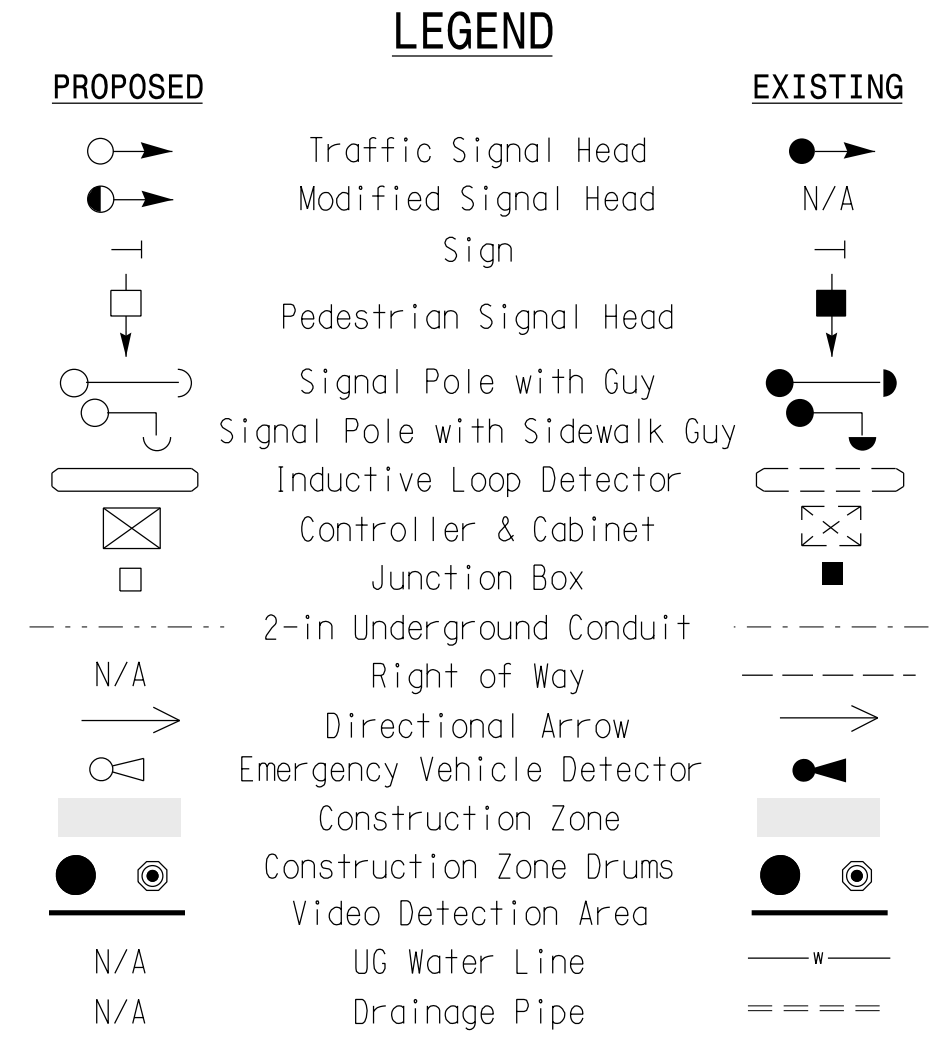
FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green 1 *	7	12	7	7	7	12	7	7
Extension 1 *	2.0	6.0	2.0	2.0	2.0	6.0	2.5	2.0
Max Green 1 *	25	90	30	35	25	90	30	35
Yellow Clearance	3.0	4.5	3.0	4.5	3.0	4.5	3.0	3.8
Red Clearance	2.9	1.0	3.4	1.9	2.8	1.3	3.3	2.7
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
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.

**OASIS 2070 EV PREEMPT**

FUNCTION	PRE 3
Interval 1 - Dwell Green	255
Interval 1 - Dwell Yellow	0.0*
Interval 1 - Dwell Red	0.0*
Interval 5 - Exit Green	0
Interval 5 - Yellow	0.0
Interval 5 - Red	0.0
Exit Phase(s)	-
Priority	MED
Delay Time	0.0
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	12
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	-
Preempt Extend**	5

\* Time defaults to time used for phase during normal operation  
\*\* Program Timing on Optical Detection Unit



**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

**Signal Upgrade - Temporary Design (Area 1 TMP Phases I and II)**

Prepared for the Offices of:  
**US 301 Byp (S. Wesleyan Blvd) at SR 1713 (Old Mill Road) / SR 1836 (May Drive)**  
 Division 04 Nash County Rocky Mount  
 PLAN DATE: November 2016 REVIEWED BY: MB Toth  
 PREPARED BY: AM Encarnacion REVIEWED BY:  
 SCALE: 1"=40'  
 REVISIONS: INIT. DATE  
 1/30/2017  
 MELISSA B. TOTH  
 SIG. INVENTORY NO. 04-04611

30-JAN-2017 16:57  
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