

PHASING DIAGRAM

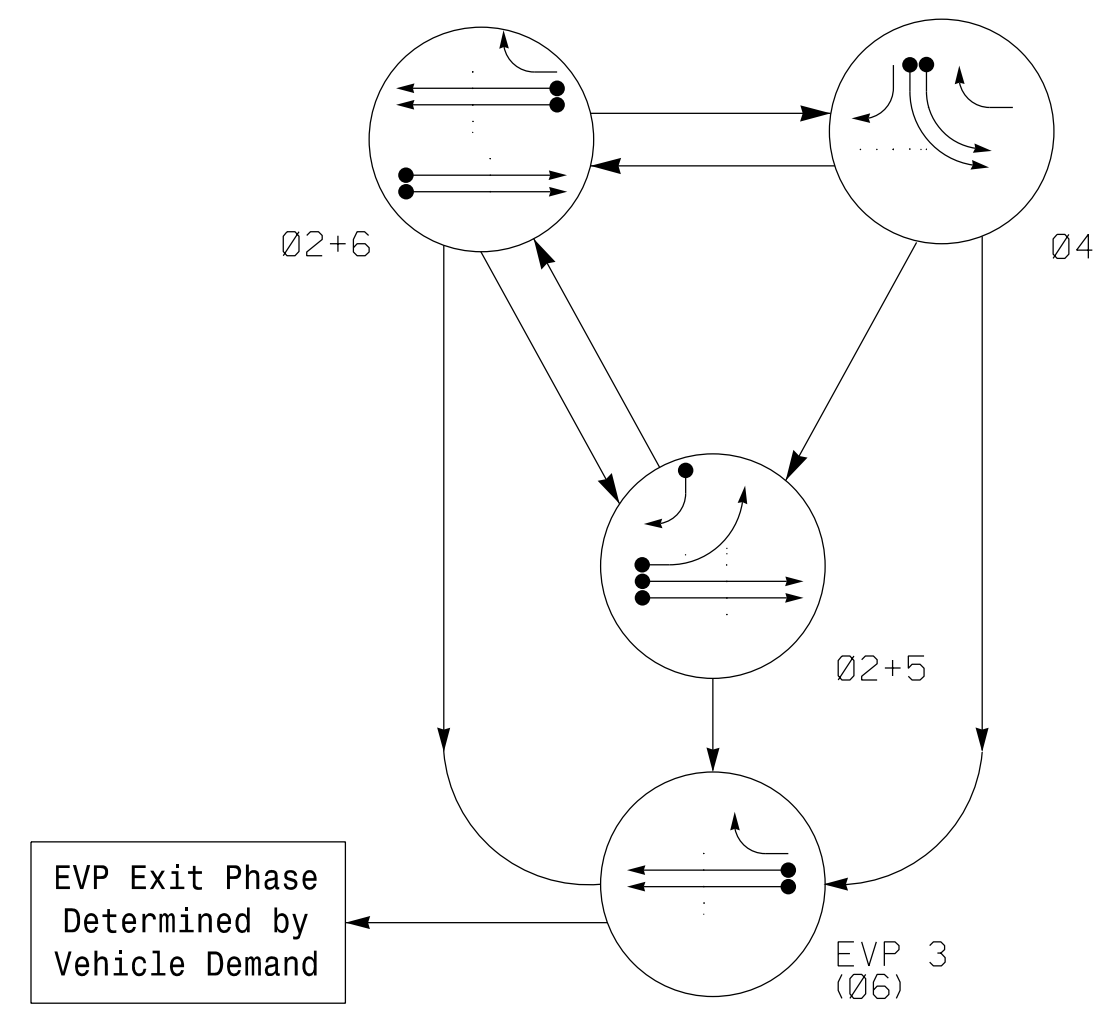
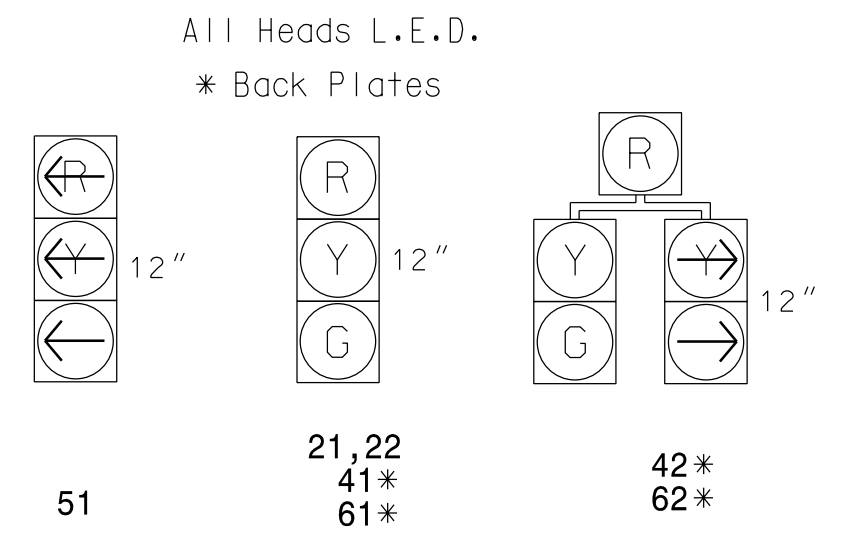


TABLE OF OPERATION

SIGNAL FACE	PHASE				
	Ø 2+5	Ø 2+6	Ø 4	EVP 3	FLASH
21, 22	G	G	R	R	Y
41	R	R	G	R	R
42	R	R	G	R	R
51	-	R	R	R	R
61	R	G	R	G	Y
62	R	G	R	G	Y

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	FULL TIME DELAY			STRETCH TIME
2A	6x6	300	*	Y	2	Y	Y	-	-	-	*
2B	6x6	300	*	Y	2	Y	Y	-	-	-	*
2C	6x40	0	*	Y	2	Y	Y	Y	2	5	*
2D	6x40	0	*	Y	2	Y	Y	Y	2	5	*
4A	6x40	0	*	Y	4	Y	Y	-	-	3	*
4B	6x40	0	*	Y	4	Y	Y	-	-	-	*
5A	6x40	0	*	Y	5	Y	Y	-	-	-	*
5B	6x40	+10	*	Y	5	Y	Y	-	-	15	*
6A	6x6	300	*	Y	6	Y	Y	-	-	-	*
6B	6x6	300	*	Y	6	Y	Y	-	-	-	*
6C	6x40	0	*	Y	6	Y	Y	Y	2	5	*
6D	6x40	0	*	Y	6	Y	Y	Y	2	5	*

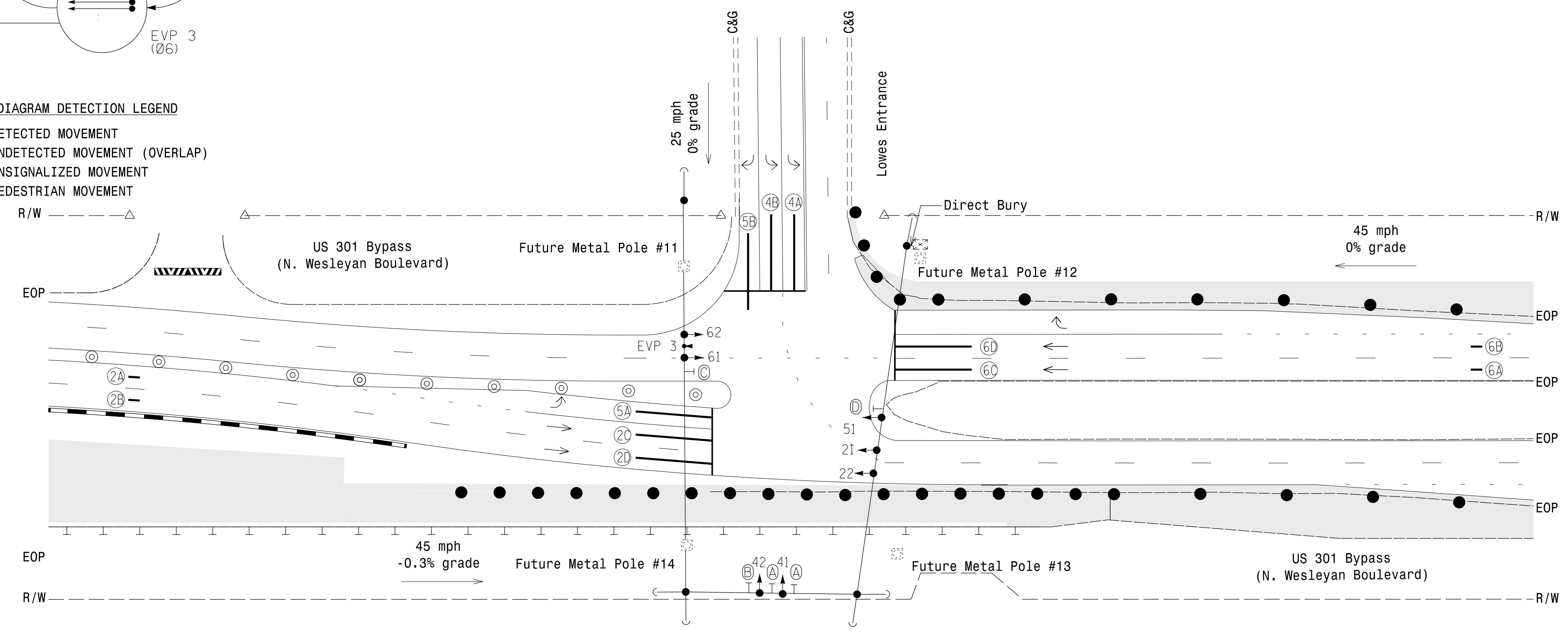
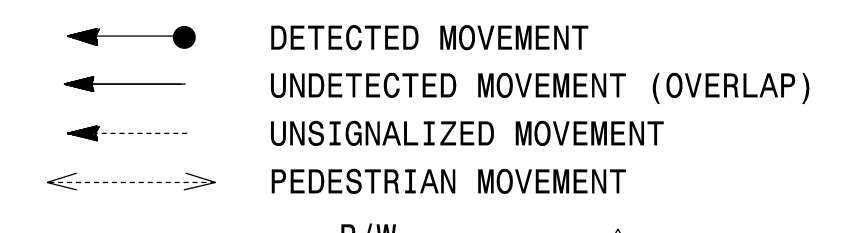
* Video Detection Area

3 Phase W/ EV Preempt Fully Actuated Rocky Mount Signal System

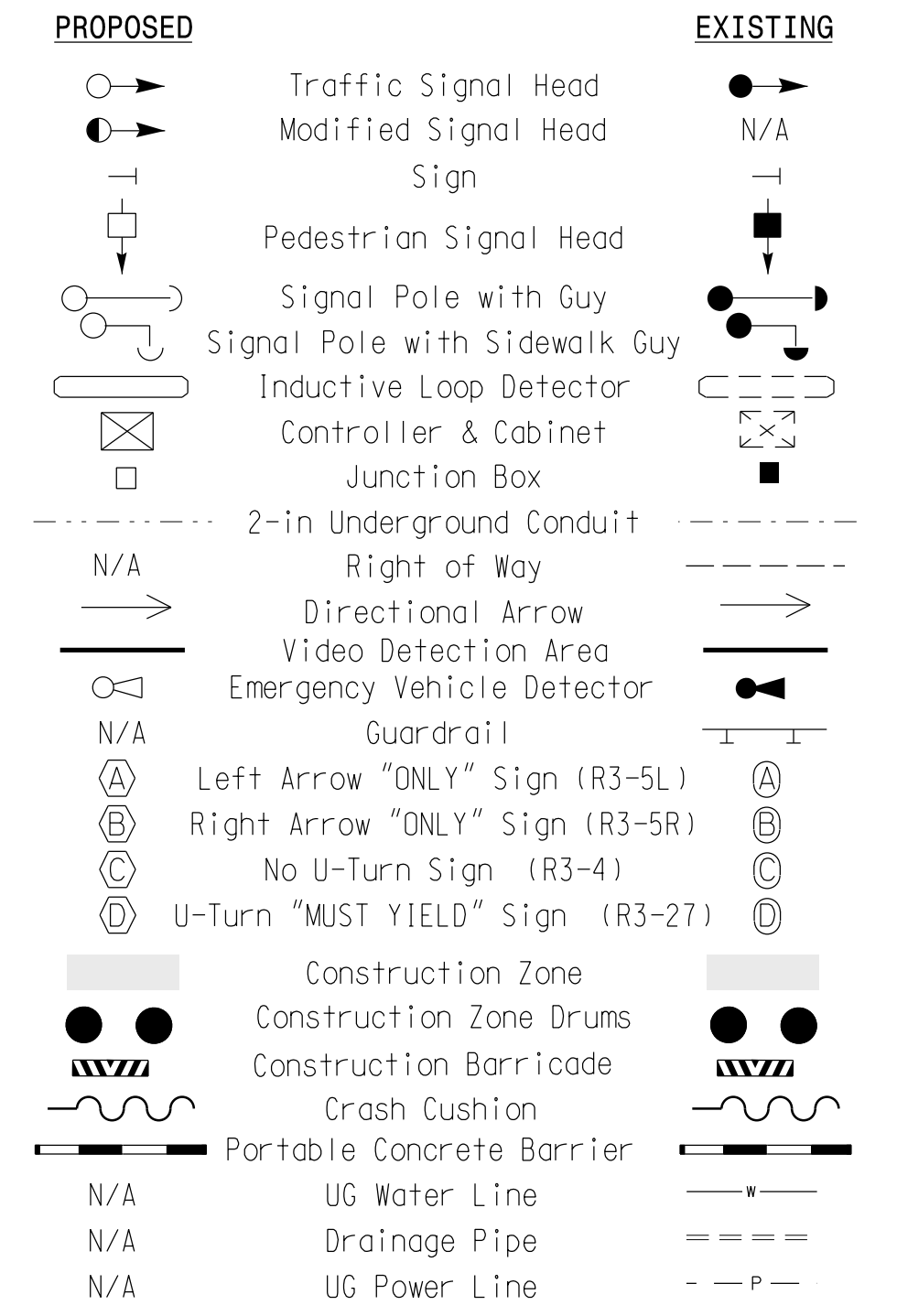
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all loop emulators to presence mode.
4. Phase 5 may be lagged.
5. Reposition signal heads numbered 51, 61, and 62 as shown.
6. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
7. Reuse EVP 3 detector. Reuse Phase Selector. See Project Special Provisions.
8. Maximum times shown in timing charts are for free-run operation only. Coordinated signal timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND



LEGEND



OASIS 2070E TIMING CHART

FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	12	7	7	12
Extension 1 *	6.0	2.0	2.0	6.0
Max Green 1 *	90	25	20	90
Yellow Clearance	4.6	3.0	3.0	4.5
Red Clearance	1.2	3.3	2.8	1.3
Red Revert	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

* 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.

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

30-JAN-2017 11:38 D:\P\proj\2017\04\00002135-U-3330-S\signal\sig\04-115813.dgn ENL59586 - AT US95021

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NCBEES #F-0326

Signal Upgrade - Temporary Design 3 (Area 2 TMP Phase III)

Prepared for the Offices of:

 750 N. Greenfield Pkwy, Garner, NC 27529

US 301 Byp. (N. Wesleyan Blvd) at Lowe's Entrance
 Division 04 Nash County Rocky Mount
 PLAN DATE: November 2016 REVIEWED BY: MB Toth
 PREPARED BY: AM Encarnacion REVIEWED BY:

REVISIONS: INIT. DATE

Scale: 1"=40'

DESIGNED BY: Melissa B. Toth 1/30/2017
 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH SEAL 025892
 DATE DATE
 SIG. INVENTORY NO. 04-115813

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