

PHASING DIAGRAM

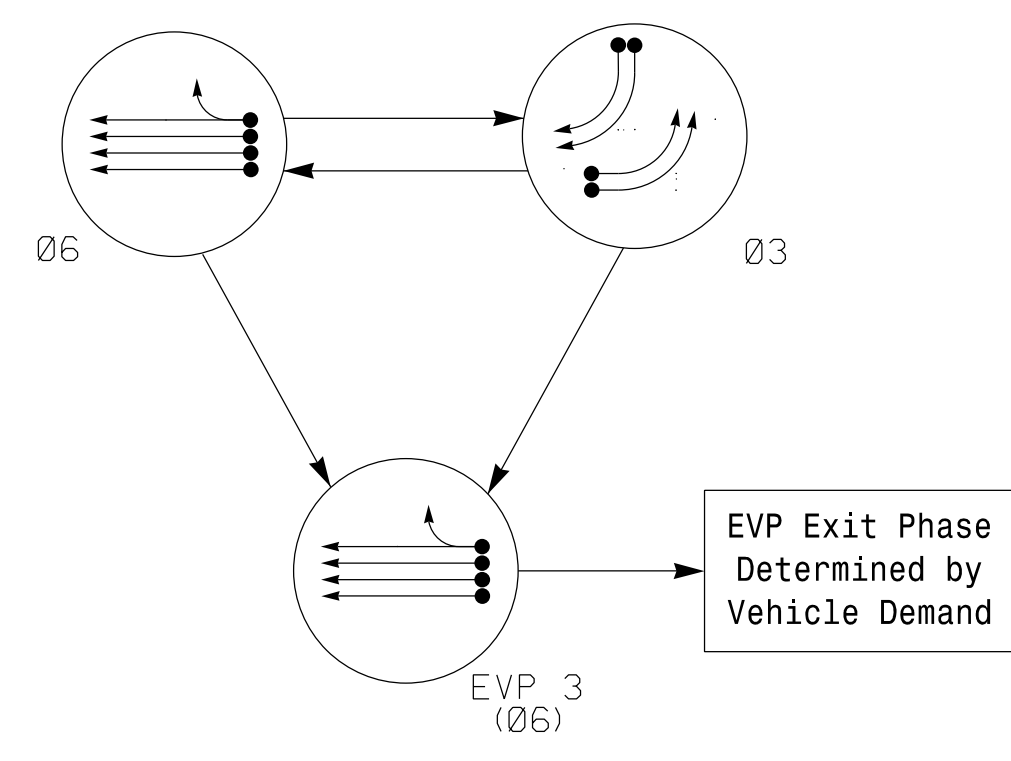
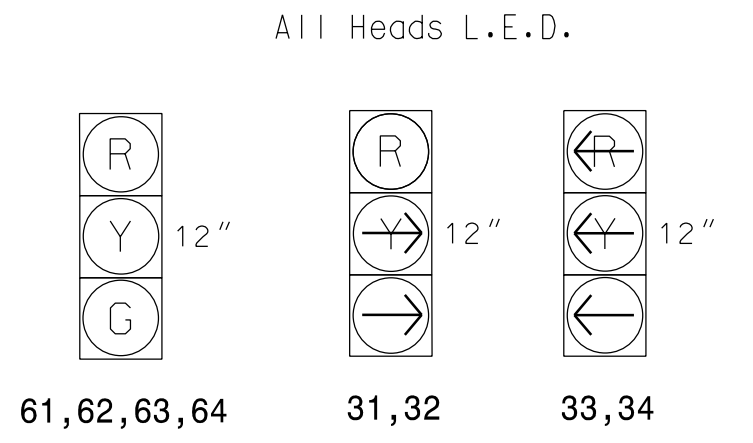


TABLE OF OPERATION

SIGNAL FACE	PHASE		
	03	06	EVP 3
31, 32	→	R	R
33, 34	←	R	R
61, 62, 63, 64	R	G	Y

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	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD	
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	-	-	Y
3B	6X40	0	2-4-2	Y	3	Y	Y	-	-	-	-	Y
3C	6X40	0	2-4-2	-	3	Y	Y	-	-	15	-	-
3D	6X40	0	2-4-2	-	3	Y	Y	-	-	15	-	-
6A/S21	6X6	300	5	Y	6	Y	Y	-	-	-	-	Y
6B/S22	6X6	300	5	-	6	Y	Y	-	-	-	-	Y
6C/S23	6X6	300	5	-	6	Y	Y	-	-	-	-	Y
6D/S24	6X6	300	5	-	6	Y	Y	-	-	-	-	Y

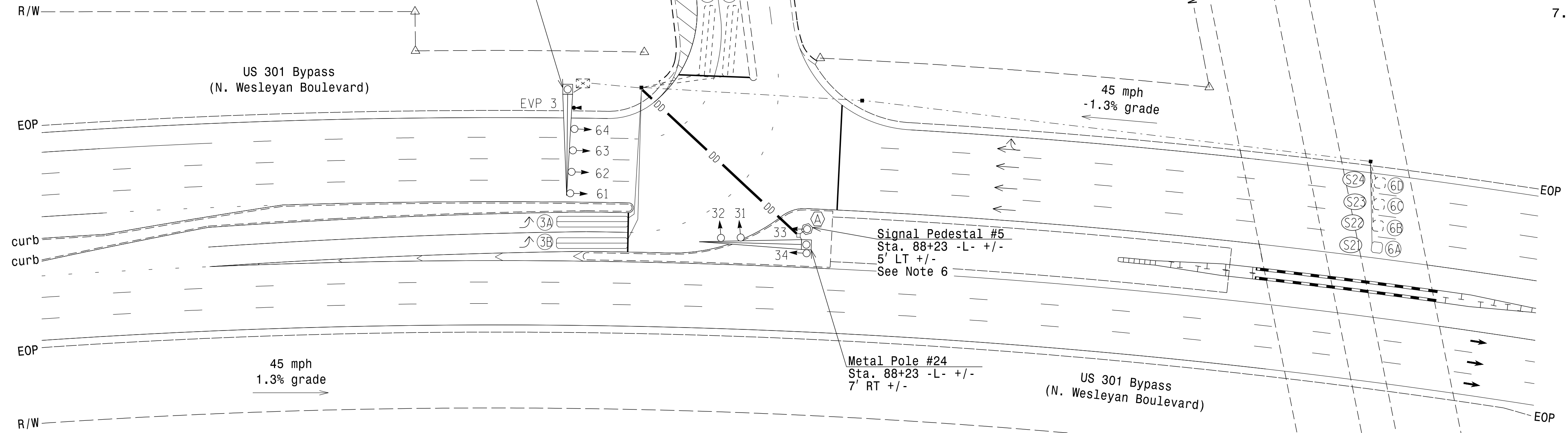
2 Phase W/ EV Preempt Fully Actuated Rocky Mount Signal System

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 detector units to presence mode.
4. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
5. Relocate EVP 3 detector to new mast arm. Reuse existing phase selector. See Project Special Provisions.
6. Pedestal mounted signal heads shall be mounted a minimum of 8' above the high point of the roadway surface elevation.
7. Maximum times shown in timing charts are for free-run operation only. Coordinated signal timing values supercede these values.

PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- ◄ UNDETECTED MOVEMENT (OVERLAP)
- ⋯ UNSIGNALIZED MOVEMENT
- ⇄ PEDESTRIAN MOVEMENT



OASIS 2070E TIMING CHART

FEATURE	PHASE	
	3	6
Min Green 1 *	7	12
Extension 1 *	2.0	6.0
Max Green 1 *	30	60
Yellow Clearance	3.0	4.7
Red Clearance	3.5	1.4
Red Revert	2.0	2.0
Walk 1 *	-	-
Don't Walk 1	-	-
Seconds Per Actuation *	-	1.5
Max Variable Initial *	-	34
Time Before Reduction *	-	15
Time To Reduce *	-	30
Minimum Gap	-	3.0
Recall Mode	-	MIN RECALL
Vehicle Call Memory	-	YELLOW
Dual Entry	-	ON
Simultaneous Gap	ON	ON

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

LEGEND

- | | | | |
|--|-------------------------------------|--|-------------------------------------|
| | PROPOSED Traffic Signal Head | | EXISTING Traffic Signal Head |
| | PROPOSED Modified Signal Head | | EXISTING Modified Signal Head |
| | PROPOSED Sign | | EXISTING Sign |
| | PROPOSED Metal Pole with Mastarm | | EXISTING Metal Pole with Mastarm |
| | PROPOSED Signal Pedestal | | EXISTING Signal Pedestal |
| | 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 Emergency Vehicle Detector | | EXISTING Emergency Vehicle Detector |
| | PROPOSED No U-Turn Sign (R3-4) | | EXISTING No U-Turn Sign (R3-4) |

* 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.

Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	Prepared for the Offices of: TRANSPORTATION MOBILITY AND SAFETY DIVISION DEPARTMENT OF TRANSPORTATION SIGNAL DESIGN SECTION		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025892 MELISSA B. TOOTH
	US 301 Byp. (N. Wesleyan Blvd) at Word Plaza Division 04 Nash County Rocky Mount		
PLAN DATE: November 2016 PREPARED BY: AM Encarnacion		REVIEWED BY: MB Toth	
REVISIONS		INIT. DATE	
SCALE 0 40 1"=40'		750 N. Greenfield Pkwy, Garner, NC 27529 ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888 NOBEE'S #F-0326	

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