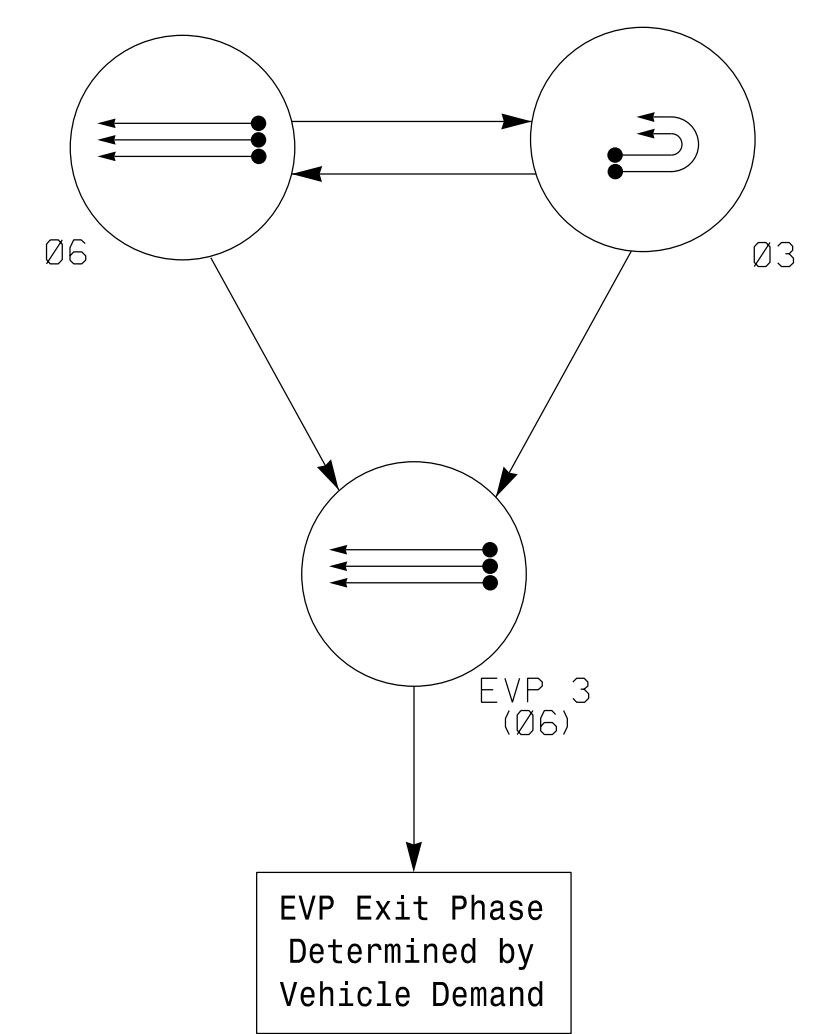
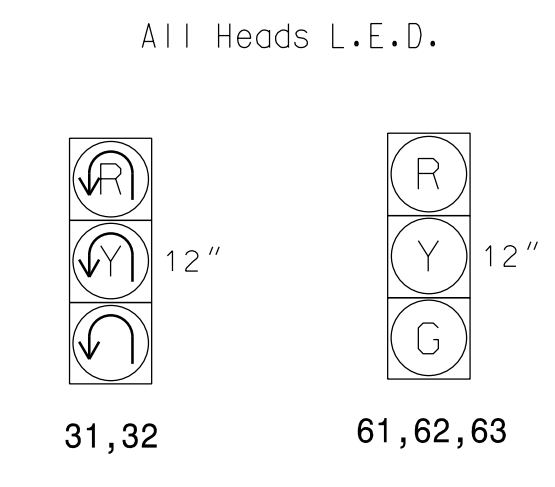


### PHASING DIAGRAM



SIGNAL FACE	PHASE			
	03	06	EVP	EXIT
31, 32	←	←	←	←
61, 62, 63	R	G	G	Y

### SIGNAL FACE I.D.

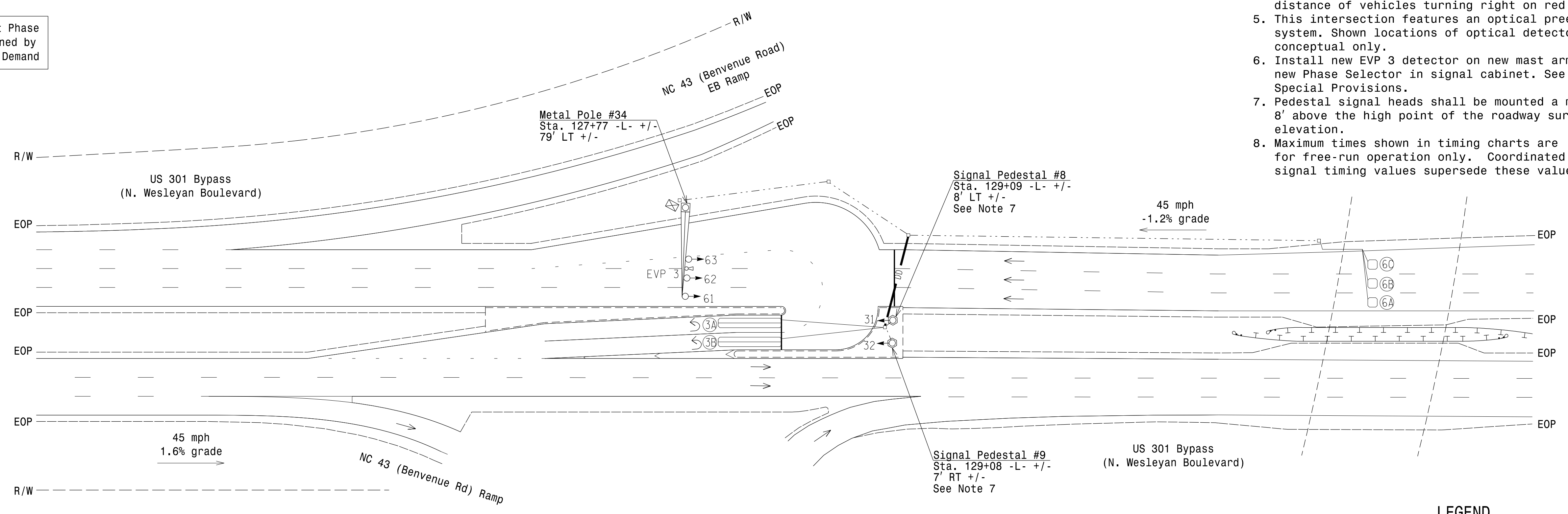


OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	-	-	Y
3B	6X40	0	2-4-2	Y	3	Y	Y	-	-	-	-	Y
6A	6x6	300	5	Y	6	Y	Y	-	-	-	-	Y
6B	6x6	300	5	Y	6	Y	Y	-	-	-	-	Y
6C	6x6	300	5	Y	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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
6. Install new EVP 3 detector on new mast arm. Install new Phase Selector in signal cabinet. See Project Special Provisions.
7. Pedestal signal heads shall be mounted a minimum of 8' above the high point of the roadway surface elevation.
8. Maximum times shown in timing charts are for free-run operation only. Coordinated signal timing values supersede these values.



FEATURE	OASIS 2070E TIMING CHART	
	PHASE 3	PHASE 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	1.1
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	-	-
Simultaneous Gap	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

LEGEND	
PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
● → Modified Signal Head	— Sign
⊥ Pedestrian Signal Head	⊥ With Push Button & Sign
⊥ Metal Pole with Mastarm	⊥ Signal Pedestal
⊥ Inductive Loop Detector	⊥ Controller & Cabinet
⊥ Junction Box	⊥
--- 2-in Underground Conduit	---
N/A → Right of Way	---
N/A → Directional Arrow	→
N/A → Guardrail	—

### Signal Upgrade - Final Design

	Prepared for the Offices of: <b>US 301 Byp. (N. Wesleyan Blvd)</b> at <b>NB U-turn South of NC 43 (Benvenue Rd)</b>		SEAL  MELISSA B. TOTH ENGINEER	
	Division 04 PLAN DATE: November 2016 PREPARED BY: AM Encarnacion	Nash County REVIEWED BY: MB Toth REVIEWED BY:		Rocky Mount DATE:
	REVISIONS	INIT.		DATE
	SIGNED BY: Melissa B. Toth DATE: 1/30/2017 SCALE: 1"=40' SIG. INVENTORY NO. 04-1413			