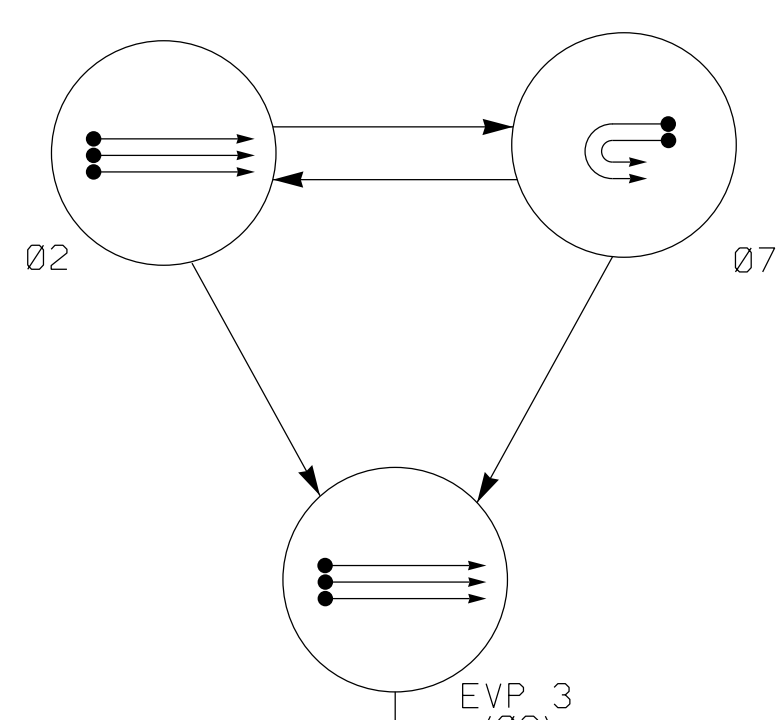


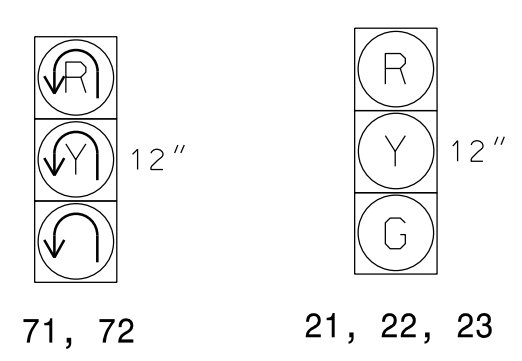
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	02	07	EVP 3	02
21, 22, 23	G	R	G	Y
71, 72	(R)	(R)	(R)	(R)

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
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
2A	6x6	300	5	Y	2	Y	Y	-	-	-	-	Y
2B	6x40	300	5	Y	2	Y	Y	-	-	-	-	Y
2C	6x40	300	5	Y	2	Y	Y	-	-	-	-	Y
7A	6x40	0	2-4-2	Y	7	Y	Y	-	-	-	-	Y
7B	6x40	0	2-4-2	Y	7	Y	Y	-	-	-	-	Y

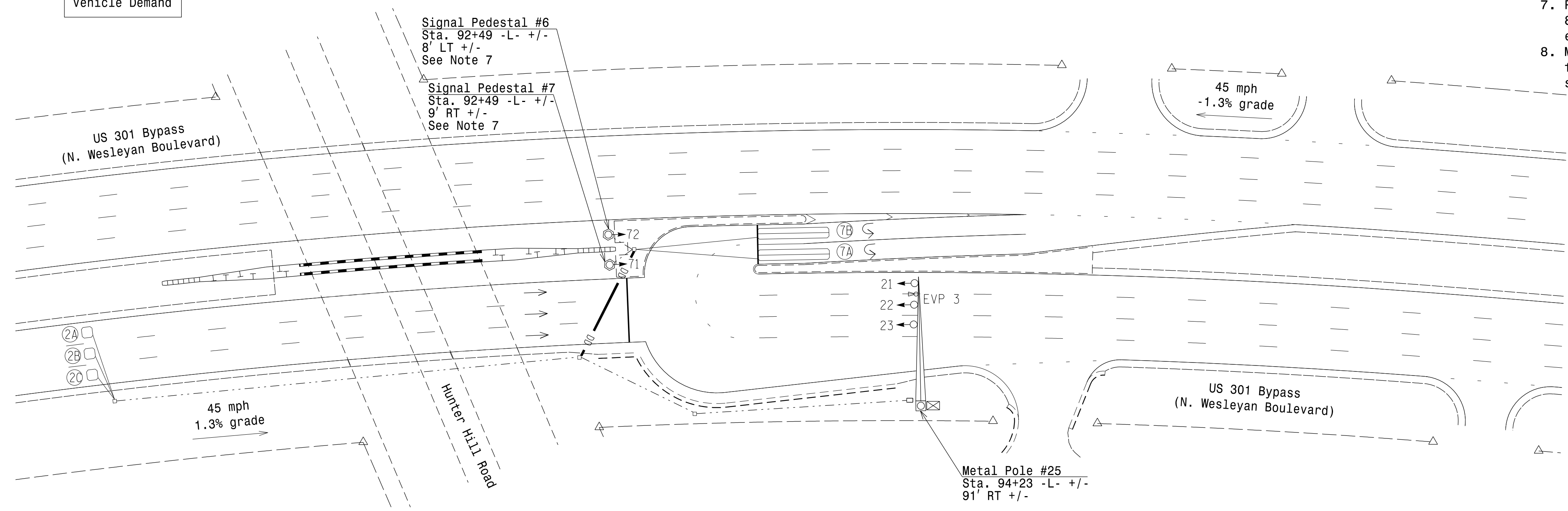
2 Phase W/ EV Preempt Fully Actuated Rocky Mount Signal System

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.

PHASING DIAGRAM DETECTION LEGEND

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



FEATURE	PHASE	
	2	7
Min Green 1 *	12	7
Extension 1 *	6.0	2.0
Max Green 1 *	60	30
Yellow Clearance	4.4	3.0
Red Clearance	1.2	3.7
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

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

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

* 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

750 N. Greenfield Pkwy, Garner, NC 27529

US 301 Byp. (N. Wesleyan Blvd)
at
SB U-turn North of
Hunter Hill Road
 Rocky Mount
 Division 04 Nash County

PLAN DATE: November 2016 REVIEWED BY: MB Toth
 PREPARED BY: AM Encarnacion REVIEWED BY:

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 MELISSA B. TOOTH
 SEAL 025892

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

SCALE
 0 40
 1"=40'

REVISIONS	INIT.	DATE

Designed by: Melissa B. Toth 1/30/2017
 DATE
 SIG. INVENTORY NO. 04-1410

30-JAN-2017 17:55 D:\Projects\2017\01\00002135-U-3330-Signal\02-Signal\04-1410.dgn ENL5086 AT LUS9321