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PROJECT REFERENCE NO.	SHEET NO.
U-3330	Sig. 4.0

PHASING DIAGRAM

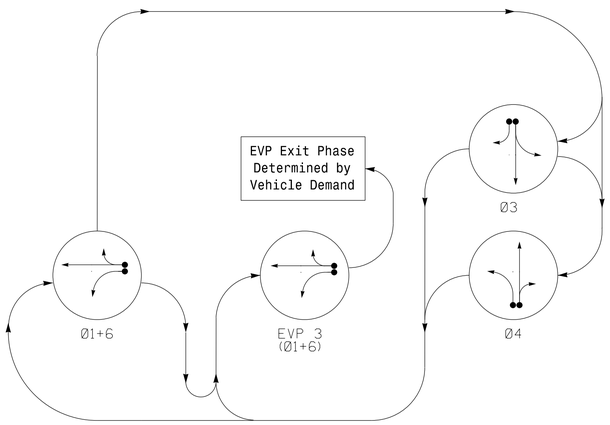
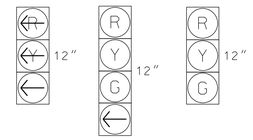


TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+6	PHASE Ø3	PHASE Ø4	PHASE EVP 3	PHASE FLASH
11	←	R	R	←	R
31	R	G ←	R	R	R
32	R	G	R	R	R
41	R	R	G ←	R	R
42	R	R	G	R	R
61, 62	G	R	R	G	Y

SIGNAL FACE I.D.

All Heads L.E.D.



11
51(bagged)

31
41

21,22(bagged)
32
42
61,62

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6x40	0	2-4-2	-	1	Y	Y	-	-	-	-	-
3A	6x40	+5	2-4-2	-	3	Y	Y	-	-	3	-	-
3B	6x40	+5	2-4-2	-	3	Y	Y	-	-	15	-	-
4A	6x40	+5	2-4-2	-	4	Y	Y	-	-	3	-	-
4B	6x40	+5	2-4-2	-	4	Y	Y	-	-	10	-	-
6A,6B	6x6	70	3	-	6	Y	Y	-	-	-	-	-

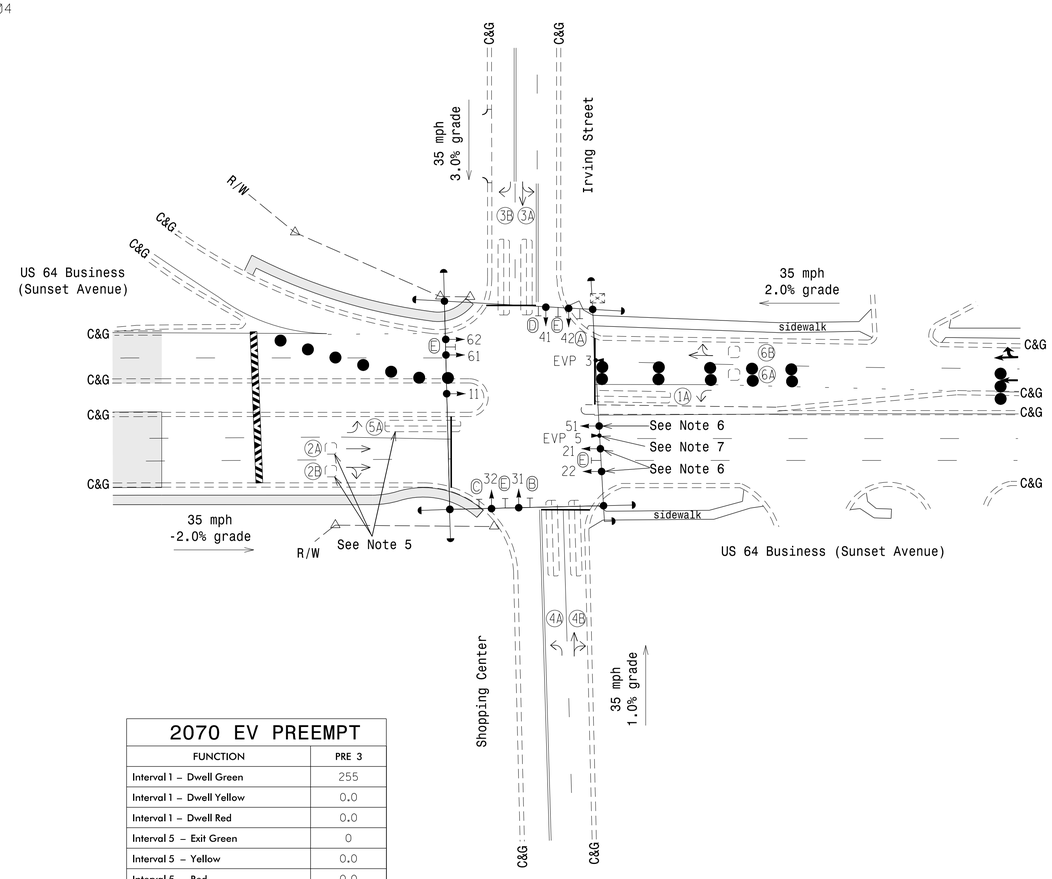
3 Phase W / EV Preempt
Fully Actuated
Rocky Mount Signal System

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. The order of phase 3 and phase 4 may be reversed.
4. Reposition existing signal heads numbered 61 and 62 as shown.
5. Abandon existing loops # 2A, 2B, and 5A.
6. Disable and bag heads 21, 22, and 51.
7. Disable EVP 5.
8. Set all detector units to presence mode.
9. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

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



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
	Emergency Vehicle Detector	
Ⓐ	Combined Through and Right Arrow Sign (R3-6R)	Ⓐ
Ⓑ	Combined Through and Left Arrow Sign (R3-6L)	Ⓑ
Ⓒ	Right Arrow "ONLY" Sign (R3-5R)	Ⓒ
Ⓓ	Left Arrow "ONLY" Sign (R3-5L)	Ⓓ
Ⓔ	Street Name Sign	Ⓔ
	Construction Zone	
	Construction Zone Drums	
	Construction Barricade	

OASIS 2070 TIMING CHART

FEATURE	PHASE 1	PHASE 3	PHASE 4	PHASE 6
Min Green 1 *	10	7	7	10
Extension 1 *	2.0	2.0	2.0	3.0
Max Green 1 *	45	25	25	45
Yellow Clearance	3.0	3.7	3.8	3.7
Red Clearance	2.4	1.9	2.0	1.1
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 *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	-	-	-	YELLOW
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	10
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)

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

Prepared for the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 40 1"=40'

US 64 Business (Sunset Avenue)
at
Irving Street

Division 04 Nash County Rocky Mount

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

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 025892 ENGINEER MELISSA B. TOTH

DocuSigned by: Melissa B. Toth 1/30/2017
DOCUSIGNATURE DATE

SIG. INVENTORY NO. 04-0666T1

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