PROJECT REFERENCE NO.	SHEET NO.
U-5169	Sig. 16.0

PHASING DIAGRAM

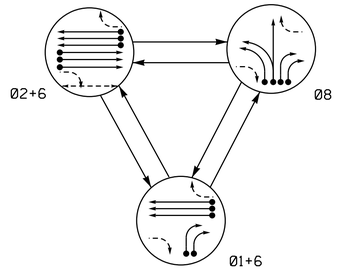
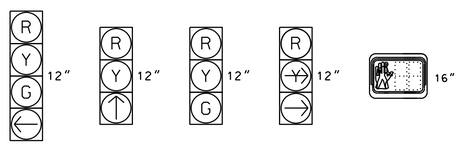


TABLE OF OPERATION				
SIGNAL FACE	PHASE 01+6	PHASE 02+6	PHASE 08	FLASH
11,12	→	R	→	R
21,22,23	R	↑	R	Y
61,62,63	↑	↑	R	Y
81	R	R	G	R
82	R	R	G	R
P21,P22	DW	W	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION											
INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP / ZONE	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	Y	1	Y	Y	-	-	10	- Y
1B	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	- Y
2A *	*	300	*	Y	2	Y	Y	-	1.6	-	- *
2B	6X6	90	3	Y	2	Y	Y	-	-	-	- Y
2C	6X6	90	3	Y	2	Y	Y	-	-	-	- Y
2D	6X6	90	3	Y	2	Y	Y	-	-	-	- Y
6A	6x6	300	5	Y	6	Y	Y	-	1.6	-	- Y
6B	6x6	300	5	Y	6	Y	Y	-	1.6	-	- Y
6C	6x6	300	5	Y	6	Y	Y	-	1.6	-	- Y
6D	6x6	90	4	Y	6	Y	Y	-	-	-	- Y
6E	6x6	90	4	Y	6	Y	Y	-	-	-	- Y
6F	6x6	90	4	Y	6	Y	Y	-	-	-	- Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	- Y
8B	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	- Y

* Microwave Detection Zone

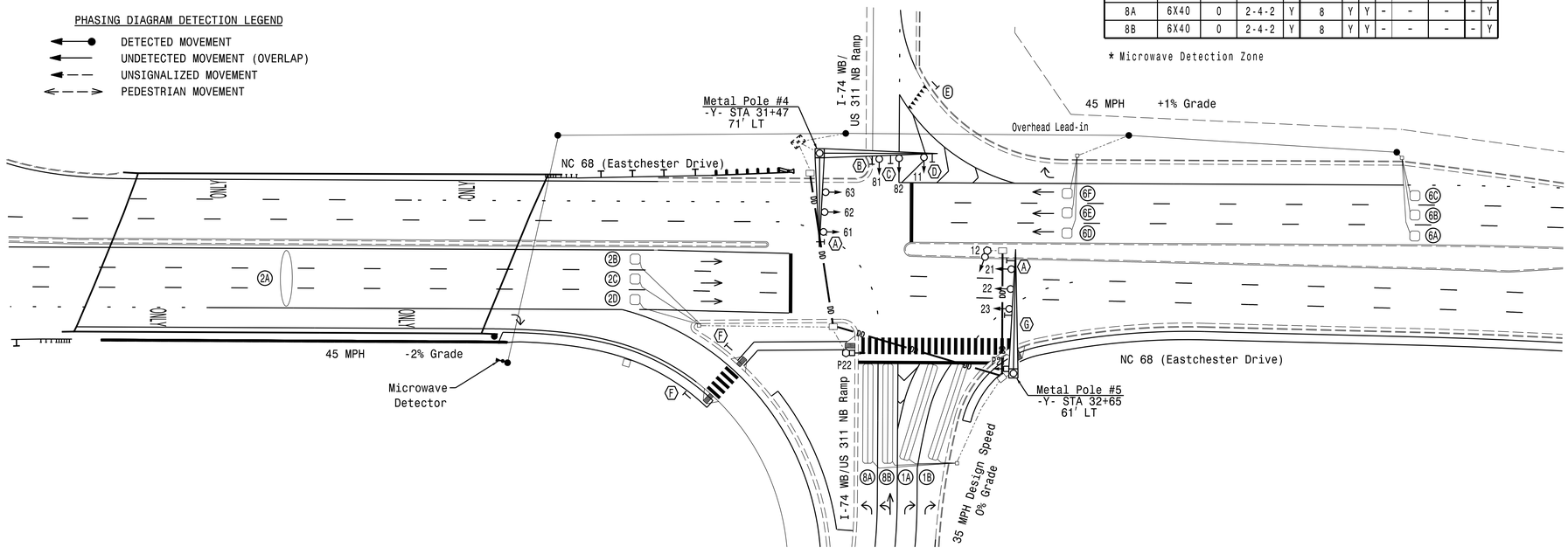
3 Phase
Fully Actuated
(High Point Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 may be lagged.
4. Set all detector units to presence mode.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. 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

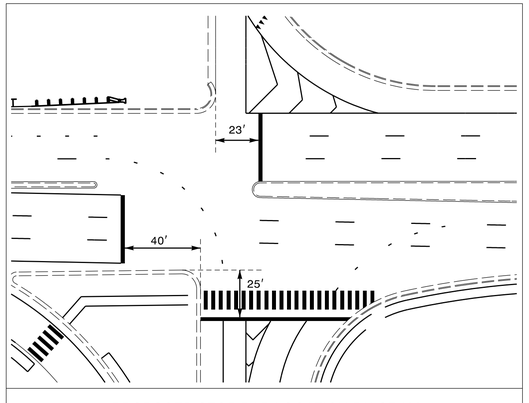


LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Metal Pole with Mastarm	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	Oversize Junction Box	
	2-in Underground Conduit	
DD	Directional Drill	N/A
N/A	Right of Way	
	Directional Arrow	
	Microwave Detector	
	Microwave Detection Zone	
N/A	Guardrail	
N/A	Curb Ramp	
(A)	No U-Turn / No Left Turn Sign (R3-18)	(A)
(B)	Left Arrow "ONLY" Sign (R3-5L)	(B)
(C)	Combined Through and Left Arrow Sign (R3-6L)	(C)
(D)	Right Arrow "ONLY" Sign (R3-5R)	(D)
(E)	"YIELD" Sign (R1-2)	(E)
(F)	Pedestrian Crossing Sign (W11-2) w/ Diagonal Arrow Plaque (W16-7p)	(F)
(G)	No Right Turn Sign (R3-1)	(G)

OASIS 2070 TIMING CHART				
FEATURE	PHASE 1	PHASE 2	PHASE 6	PHASE 8
Min Green 1 *	7	12	12	7
Extension 1 *	2.0	2.0	2.0	2.0
Max Green 1 *	20	90	90	30
Yellow Clearance	3.2	4.7	4.4	3.8
Red Clearance	1.4	1.9	1.2	2.6
Walk 1 *	-	7	-	-
Don't Walk 1	-	23	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	-	SOFT RECALL	SOFT RECALL	-
Vehicle Call Memory	-	YELLOW	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.



PROPOSED STOP BAR LOCATION DIAGRAM

Project #: 170908

DAVENPORT
HOME OFFICE:
119 BROOKSTOWN AVENUE, SUITE PH1
WINSTON-SALEM, NC 27101
336.744.1636 www.davenportworld.com
NCBELS FIRM LICENSE NO. C-2522

Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for: Transportation Mobility and Safety Division — North Carolina Department of Transportation — Signal Design Section

750 N.Greenfield Pkwy,Garner,NC 27529

NC 68 (Eastchester Drive) at I-74 WB/ US 311 NB Ramps

Division 7 Guilford County High Point

PLAN DATE: May 2018 REVIEWED BY: R. Hinshaw

PREPARED BY: A. Ravipati REVIEWED BY: L Boyer

SCALE 0 40 1"=40'

REVISIONS | INIT. | DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 032117 ROYAL HINSHAW

DocuSigned by: R. Royal Hinshaw 05/18/2018
SIGNATURE DATE

SIG. INVENTORY NO. 07-1623