PHASING DIAGRAM

06   04+8

ALL RED

RED REST

PHASING DIAGRAM DETECTION LEGEND

- ●——◄ DETECTED MOVEMENT
- ——◄ UNDETECTED MOVEMENT (OVERLAP)
- – – ◄ UNSIGNALIZED MOVEMENT
- ◄– – – – PEDESTRIAN MOVEMENT
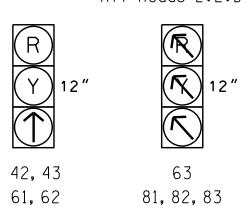
TABLE OF OPERATION

SIGNAL FACE	PHASE			
	Ø06	Ø4+8	RED REST	FLASH
42, 43	R	↑	R	R
44	↗	↗	↗	R
61, 62	↑	R	R	R
63	↗	R	↗	R
81, 82, 83	↗	↘	↗	R
P41, P42	DW	W	DW	DRK
P61, P62	W	DW	DW	DRK

W – Walk
DW – Don't Walk
DRK – Dark

SIGNAL FACE I.D.

All Heads L.E.D.

R / Y / ↑ — 12" — 42, 43 61, 62

↗ ↗ ↙ — 12" — 63 81, 82, 83

↗ ↗ ↘ — 12" — 44

P41, P42 P61, P62 — 16"

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
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	Y
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	Y
6A/S4	6X6	300	5	Y	6	-	Y	-	-	-	Y	Y
6B/S5	6X6	300	5	Y	6	-	Y	-	-	-	Y	Y
6C	6X40	0	2-4-2	Y	6	Y	Y	-	-	-	-	Y
6D	6X40	0	2-4-2	Y	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	-	Y

2 Phase Fully Actuated (NC 119 CLS)

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. 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. Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
8. Program all phases for Red Rest.
9. Program controller to start up in phase 6 green.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Closed loop system data: Controller Asset #: 0441.

Metal Pole #7
Sta. 28+94 -L- +/- 5' RT +/-

Metal Pole #8
Sta. 30+47 -L- +/- 49' RT +/-

45 MPH (Design Speed 30 MPH) -2% Grade

45 MPH +1% Grade

35 MPH 0% Grade

NC 119

NC 119

I-40 WB/I-85 SB Ramps

OASIS 2070 TIMING CHART

FEATURE	PHASE		
	4	6	8
Min Green 1 *	12	12	12
Extension 1 *	2.0	6.0	2.0
Max Green 1 *	60	60	60
Yellow Clearance	3.6	4.4	3.8
Red Clearance	2.3	3.7	1.0
Red Revert	2.0	2.0	2.0
Walk 1 *	4	4	-
Don't Walk 1	9	24	-
Seconds Per Actuation *	-	-	-
Max Variable Initial *	-	-	-
Time Before Reduction *	-	15	-
Time To Reduce *	-	30	-
Minimum Gap	-	3.0	-
Recall Mode	-	-	-
Vehicle Call Memory	-	-	-
Dual Entry	ON	-	ON
Simultaneous Gap	ON	ON	ON
Red Rest	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

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	→
N/A	Guardrail	
	Directional Drill	N/A
▷O	Metal Pole with Mastarm	▷□
N/A	Curb Ramp	
○	Type II Signal Pedestal	●
Ⓐ	No Right Turn Sign (R3-1)	Ⓐ
Ⓑ	No Left Turn Sign (R3-2)	Ⓑ
Ⓒ	"YIELD" Sign (R1-2)	Ⓒ
Ⓓ	Pedestrian Crossing Sign (W11-2)	Ⓓ

Signal Upgarde
Temporary Design 3 (TMP Phase IIA)

NC 119 at I-40 WB/I-85 SB Ramps

Division 7   Alamance County   Mebane

REVISIONS		INIT.	DATE

SCALE	
0 50	
1"=50'	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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NORTH CAROLINA
PROFESSIONAL
SEAL
026486
ENGINEER
ROBERT J. ZIEMBA

DocuSigned by: 1/25/2017
SIGNATURE   DATE

SIG. INVENTORY NO. 07-0441T3

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