

## 4 Phase Fully Actuated Asheville 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. Phase 1 may be lagged.
- 4. The order of phase 3 and phase 4 may be reversed.
- 5. Set all detector units to presence
- 6. In the event of loop replacement. refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- 7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 8. Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

## LEGEND

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US 70-74A (Tunnel Road)/ US 70 (N. Tunnel Road) US 74A (S. Tunnel Road)/ I-240 Southbound Ramp

ivision 13 Buncombe County June 2016 REVIEWED BY: T.J. Williams PLAN DATE: 750 N.Greenfleid Pkwy.Garner.NC 27529 PREPARED BY: R.N. Zinser REVIEWED BY: REVISIONS INIT. DATE

SIG. INVENTORY NO. |3-0459

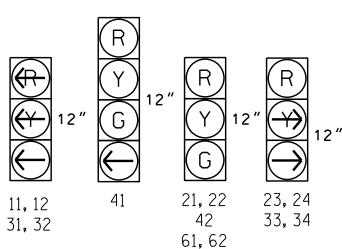
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED

TABLE OF OPERATION							
	PHASE						
SIGNAL FACE	01+6	<b>0</b> 2+6	<b>Ø</b> 3	04	FLGOI		
11, 12	ļ	<del>-R</del>	#	#	┿		
21, 22	R	G	R	R	Υ		
23, 24	R	1	$\rightarrow$	R	<del>-Y-</del>		
31, 32	<del>†</del>	₩	1	₹	┿		
33, 34	<b></b>	R	<b>-</b>	R	R		
41	R	R	R	ပေ	R		
42	R	R	R	G	R		
61, 62	G	G	R	R	Υ		

## SIGNAL FACE I.D.

All Heads L.E.D.



DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT 11, 12 ← − − > PEDESTRIAN MOVEMENT 31, 32

PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

Install new base-mounted

OASIS 2070 TIMING CHART									
	PHASE								
FEATURE	1	2	3	4	6				
Min Green 1 *	7	12	7	7	12				
Extension 1 *	1.0	6.0	1.0	1.0	6.0				
Max Green 1 *	20	90	30	30	90				
Yellow Clearance	3.0	4.3	3.0	4.2	4.6				
Red Clearance	2.9	2.1	3.3	2.0	1.2				
Red Revert	2.0	2.0	2.0	2.0	2.0				
Walk 1 *	-	-	-	-	-				
Don't Walk 1	-	-	-	-	-				
Seconds Per Actuation *	-	1.5	-	-	1.5				
Max Variable Initial *	-	34	-	-	34				
Time Before Reduction *	-	15	-	-	15				
Time To Reduce *	-	30	-	-	30				
Minimum Gap	-	3.0	-	-	3.0				
Recall Mode	-	SOFT RECALL	-	-	SOFT RECALI				
Vehicle Call Memory	-	YELLOW	-	-	YELLOW				
Dual Entry	-	-	-	-	-				
Simultaneous Gap	ON	ON	ON	ON	ON				

\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6

I-240 Southbound Ramp

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

DETECTOR PROGRAMMING

INDUCTIVE LOOPS

FROM

STOPBAR

| 6X60 | +18 | 2-4-2 | 6X60 | +18 | 2-4-2 | 6X60 +5 2-4-2 6X60 +5 2-4-2

6X6 300 EXIST 6X6 | 300 | EXIST |

6X60 +5 2-4-2

6X60 +5 2-4-2

6X60 +5 2-4-2

6X60 +5 2-4-2

6A/S3 6X6 300 EXIST

6B/S4 6X6 300 EXIST -

SIZE

LOOP

cabinet on existing foundation.

Signal Upgrade

lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.