## 5 Phase

OASIS	2070L	L00P	& DE	ΓΕ	CTOR	ΙI	NS <sup>-</sup>	ΓΑΙ	LATI	ON CH	ΗAF	₹T
I	NDUCTI	VE LOC	)PS		DET	ECT	OR	PI	ROGRAM	MMING		
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6′×6′	250′	5	Υ	2	Υ	Υ	_	_	_	-	-
3A	6'x6'	200′	5	Υ	3	_	Υ	_	2.3	-	-	_
3B	6′×6′	200′	5	Υ	3	_	Υ	_	2.3	-	_	-
3C	6'x40'	0′	2-4-2	Υ	3	Υ	Υ	-	2	5	-	_
3D	6'x40'	0′	2-4-2	Υ	3	Υ	Υ	-	2	5	-	-
4 A	6'x40'	0′	2-4-2	-	4	Υ	Υ	_	=	=	-	-
6A	6′×6′	250′	5	Υ	6	Υ	Υ	_	=	=	-	-
6B	6′×6′	250′	5	Υ	6	Υ	Υ	_	_	_	-	-
7 /	C/10/	0/	0.40		7	Υ	Υ	-	_	15	-	-
7 A	6'x40'	0'	2-4-2	_	4	Υ	Υ	-	-	-	-	-
7B	6'×40'	0'	2-4-2	Υ	7	Υ	Υ	-	_	15	-	Υ
8.8	6'×40'	0'	2-4-2	Υ	8	Υ	Υ	-	_	-	-	Υ
S1	6′×6′	250′	5	Υ	-	_	_	_	-	-	Υ	Υ

## 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 3 and/or phase 7 may be lagged.

AerialLead-In

INSTALL STANDARD DOWNGUYS IF CAN MAINTAIN 7'

CLEARANCE OVER SIDEWALK OR INSTALL

- 4. Reposition existing signal heads numbered 23, 62, and 63.
- 5. Reposition existing street name signs for Carolina Beach Road and Front Street as shown.
- 6. Relocate street name sign for Burnett Blvd as shown.
- 7. Set all detector units to presence mode.
- 8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

	LEGEND	
PROPOSEI	<u></u>	<b>EXISTING</b>
$\bigcirc$	Traffic Signal Head	•
<b>()</b>	Modified Signal Head	N/A
$\overline{}$	Sign	
<b>↓</b>	Pedestrian Signal Head With Push Button & Sign	•
$\bigcirc \hspace{1cm} \bigcirc$	Signal Pole with Guy	•
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	× 3
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
$\longrightarrow$	Directional Arrow	$\longrightarrow$
$\langle \Delta \rangle$	Street Name Sign (Double Sided	) (A)
$\langle \mathbb{B} \rangle$	"YIELD" Sign (R1-2)	B
N/A	Permanent Utility Easement	— PUE —
N/A	Permanent Drainage Easement	— PDE —

Final Design	
Prepared for the Offices of:  Nobility and  Nobility and	U
	Di
noi Design Section	PL.
750 N.Greenfield Pkwy,Garner,NC 27529	PRE
CONTE	

US 421 (Carolina Beach Road)/ JS 421 Truck-SR 1436 (Front St)

US 421/SR 1140 (Burnett Blvd) ivision 03 New Hanover County Wilmington

May 2014 REVIEWED BY: MB Toth  $\mathsf{L}\,\mathsf{M}\,\mathsf{M}$ REVIEWED BY: REVISIONS INIT. DATE

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

Melissa B. Toth

Fully Actuated (Wilmington Signal System)

Ø2+6	Ø3+7
	Ø3+8
	Ø4+7
	Ø4+8

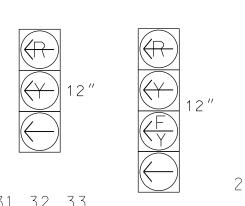
PHASING DIAGRAM

## PHASING DIAGRAM DETECTION LEGEND

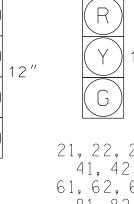
- DETECTED MOVEMENT
  - UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT  $<\!\!\!<\!\!\!--\!\!\!>$  PEDESTRIAN MOVEMENT

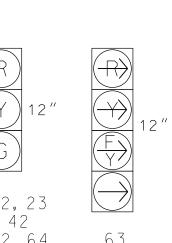
## SIGNAL FACE I.D.

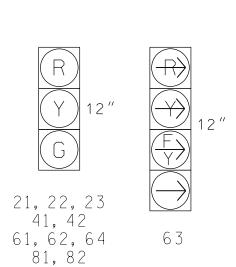
All Heads L.E.D.



31, 32, 33







	OASIS	2070L	TIMIN	G CHAR	Τ			
	PHASE							
FEATURE	2	3	4	6	7	8		
Min Green 1 *	12	7	7	12	7	7		
Extension 1 *	6.0	5.0	2.0	6.0	3.0	2.0		
Max Green 1 *	60	45	25	60	20	25		
Yellow Clearance	4.2	3.2	3.9	4.2	3.0	3.9		
Red Clearance	2.7	3.4	3.3	2.0	4.2	3.3		
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0		
Walk 1 *	-	-	-	-	-	-		
Don't Walk 1	-	-	-	-	-	-		
Seconds Per Actuation *	2.5	-	-	1.8	-	-		
Max Variable Initial*	31	-	-	31	-	-		
Time Before Reduction *	15	5	-	15	-	-		
Time To Reduce *	30	15	-	30	-	-		
Minimum Gap	3.3	3.0	-	3.3	-	-		
Recall Mode	SOFT RECALL	-	-	SOFT RECALL	-	-		
Vehicle Call Memory	YELLOW	-	-	YELLOW	-	-		
Dual Entry	-	-	-	-	=	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.

SIDEWALK DOWNGUYS TO ACCOMMODATE SIDEWALK COMPLETE SIGNAL REVISIONS TO THIS SPAN IN A MANNER THAT DOES NOT DISTURB EXISTING FIBER OPTIC ROUTING

3 9 0 0 0 0

INSTALLED PER

SIGNING PLANS

35 40

mph dm

TABLE OF OPERATION

31, 32, 33 <del>-R - - - - - R -R -R</del>

₹ = Flashing Yellow Arrow

SIGNAL

FACE

21, 22, 23

41, 42

61, 62, 64

81, 82

PHASE

<del>└</del>╾│─╾│<del>┌</del>╾│──

AerialLead-In

INSTALL NEW SIGNAL MESSENGER SO SIGNAL

HEAD CLEARANCE OVER
HIGH POINT OF
ROADWAY IS 19'.

INSTALL STANDARD DOWNGUY

posted Design .3% gra

Spe spe

PDE

Signal Upgrade

REPARED BY:

SIG. INVENTORY NO.