PHASING DIAGRAM

Ø2+6   Ø3   Ø4

PHASING DIAGRAM DETECTION LEGEND

- ●——— DETECTED MOVEMENT
- ——— UNDETECTED MOVEMENT (OVERLAP)
- ——— UNSIGNALIZED MOVEMENT
- ◄---► PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	Ø2+6	Ø3	Ø4	FLASH
11	F-Y		R	Y
21,22	G	R	G	Y
23,24	G	R	R	Y
31,32	R	G	R	Y
33,34	R	G	R	R
41,42	R	R	G	R
51	F-Y	R		Y
61,62	G	G	G	Y
63,64	G	R	R	Y
P21,P22	W	DW	DW	DRK
P31,P32	DW	W	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.

```
┌─┐
│R│ 12"
│F-Y│
│F-Y│
│←│
└─┘
11
51
```

```
┌─┐
│R│ 12"
│Y│
│G│
└─┘
21,22,23,24
31,32
33,34
41,42
61,62,63,64
```

```
┌──┐ 16"
│  │
└──┘
P21,P22
P31,P32
```

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	INDUCTIVE LOOPS SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A/S1	6×6	70	EXISTING	-	2	Y	Y	-	-	-	Y	Y
2B/S2	6×6	70	EXISTING	-	2	Y	Y	-	-	-	Y	Y
2C*	EXISTING	70	EXISTING	-	2	Y	Y	-	-	-	Y	Y
2D	6×30	0	2-4-2	-	4	Y	Y	-	-	15	-	Y
3A	6×60	+5	EXISTING	-	3	Y	Y	-	-	-	-	Y
3B	6×60	0	2-4-2	-	3	Y	Y	-	-	10	-	Y
4A	6×60	0	2-4-2	-	4	Y	Y	-	-	-	-	Y
4B	6×60	0	2-4-2	-	4	Y	Y	-	-	15	-	Y
6A/S3	6×6	70	EXISTING	-	6	Y	Y	-	-	-	Y	Y
6B/S4	6×6	70	EXISTING	-	6	Y	Y	-	-	-	Y	Y
6C*	EXISTING	70	EXISTING	-	6	Y	-	-	-	-	Y	Y
6D	6×30	0	2-4-2	-	3	Y	Y	-	-	15	-	Y
					6	Y	Y	-	-	3	-	Y
S5	6×6	+130	5	-	-	-	-	-	-	-	Y	Y

* Microwave Detection Zone

3 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. Omit phase 4 during phase 2 on.
4. Program controller to clear from phase 2+6 to phase 4 by progressing through phase 3 (see Electrical Details).
5. Reposition existing signal heads numbered 22 & 62.
6. Set all detector units to presence mode.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
9. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
10. Pavement markings are existing.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

OASIS 2070 TIMING CHART

FEATURE	2	3	4	6
Min Green 1 *	13	7	7	13
Extension 1 *	2.0	1.0	1.0	2.0
Max Green 1 *	45	25	20	45
Yellow Clearance	3.0	3.0	3.0	3.0
Red Clearance	3.1	2.8	3.1	3.1
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	7	7	-	-
Don't Walk 1	12	13	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MIN RECALL	-	-	MIN 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.

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
○►	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	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	
◻	Metal Strain Pole	□
○	Pedestrian Signal Pedestal	●
	Detection Zone	
	Wood Pole w/Side Mounted Microwave Detector	

Install new base-mounted cabinet on existing foundation.

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SCALE 0 — 30   1"=30'