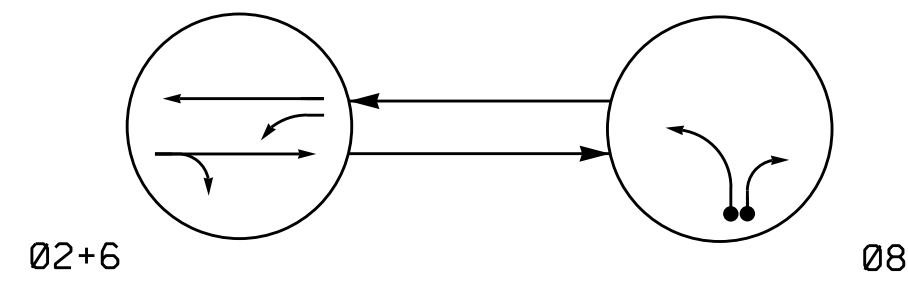## PHASING DIAGRAM

Ø2+6   Ø8
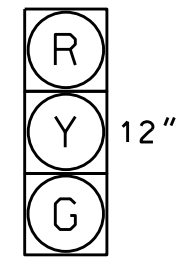
PHASING DIAGRAM DETECTION LEGEND

- ●——— DETECTED MOVEMENT
- ←——— UNDETECTED MOVEMENT (OVERLAP)
- ←- - - UNSIGNALIZED MOVEMENT
- ←- - - PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø2+6	Ø8	FLASH
21,22	G	R	Y
61,62	G	R	Y
81,82	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.


```
R
Y   12"
G
```

21,22
61,62
81,82

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
8A	6×40	+5	2-4-2	-	8	Y	Y	-	-	3	-	Y
8B	6×40	+5	2-4-2	-	8	Y	Y	-	-	15	-	Y

2 Phase
Semi-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. 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. Pavement markings are existing.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
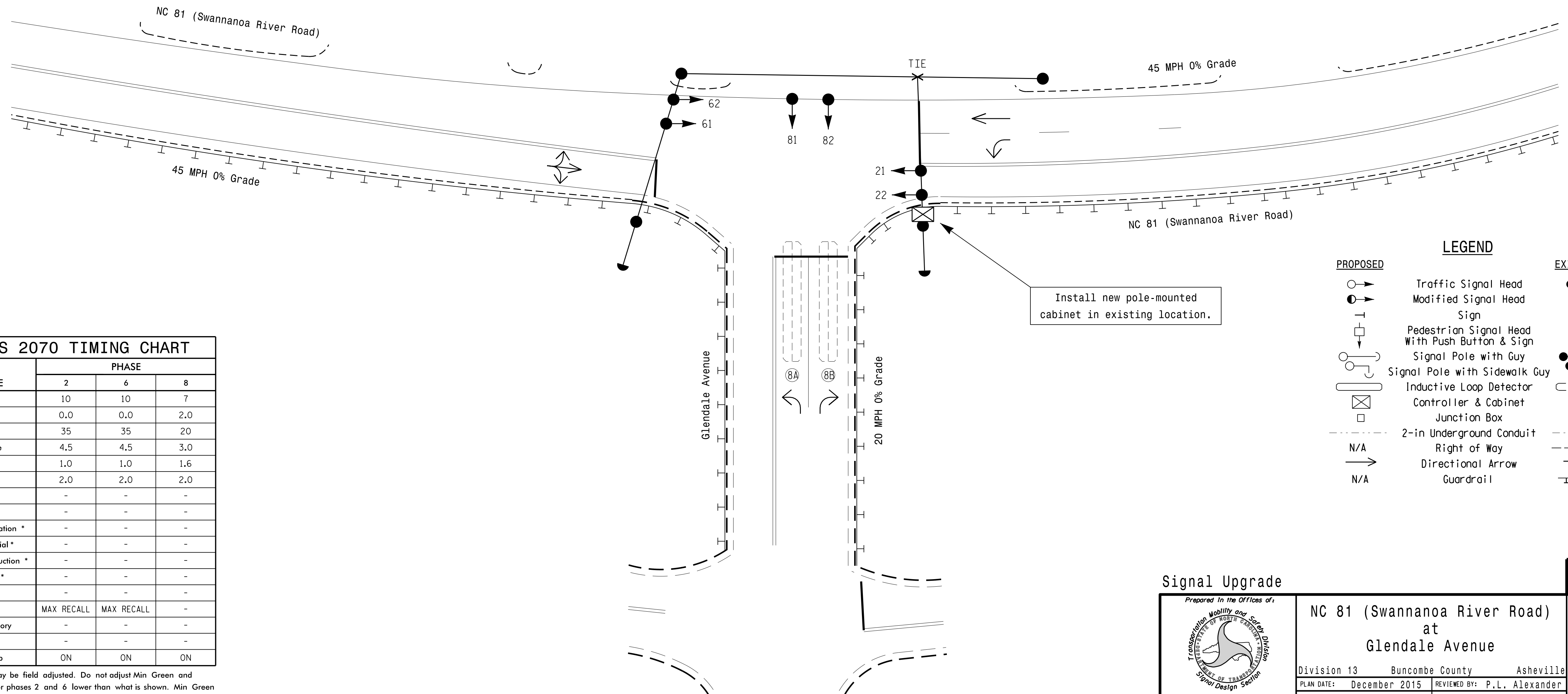
OASIS 2070 TIMING CHART

FEATURE	PHASE		
	2	6	8
Min Green 1 *	10	10	7
Extension 1 *	0.0	0.0	2.0
Max Green 1 *	35	35	20
Yellow Clearance	4.5	4.5	3.0
Red Clearance	1.0	1.0	1.6
Red Revert	2.0	2.0	2.0
Walk 1 *	-	-	-
Don't Walk 1	-	-	-
Seconds Per Actuation *	-	-	-
Max Variable Initial *	-	-	-
Time Before Reduction *	-	-	-
Time To Reduce *	-	-	-
Minimum Gap	-	-	-
Recall Mode	MAX RECALL	MAX RECALL	-
Vehicle Call Memory	-	-	-
Dual Entry	-	-	-
Simultaneous Gap	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.

NC 81 (Swannanoa River Road)

TIE

45 MPH 0% Grade

62
61

81   82

21
22

45 MPH 0% Grade

NC 81 (Swannanoa River Road)

Glendale Avenue

20 MPH 0% Grade

8A   8B

Install new pole-mounted cabinet in existing location.

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	⊤⊤⊤

Signal Upgrade

Prepared In the Offices of:

750 N.Greenfield Pkwy,Garner,NC 27529

NC 81 (Swannanoa River Road) at Glendale Avenue		
Division 13	Buncombe County	Asheville
PLAN DATE: December 2015	REVIEWED BY: P.L. Alexander	
PREPARED BY: R.N. Zinser	REVIEWED BY:	

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
043914
ENGINEER
RICHARD N. ZINSER

Richard N. Zinser   8/4/2016
DATE

REVISIONS	INIT.	DATE

SIG. INVENTORY NO. 13-0237

SCALE
0   20
1"=20'