

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMENT

← − − > PEDESTRIAN MOVEMENT

US 25 (Merrimon Avenue)

35 MPH +4% Grade

SIGNAL	FACE I.D.
All He	ads L.E.D.
R Y 12"	16"
21, 22 41, 42 61, 62 81, 82	P21, P22 P41, P42 P61, P62

81 82

21 -

22 🖊

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	6X60	0	2-4-2	1	4	Υ	Υ	ı	ı	5	ı	Υ
88	6X60	0	2-4-2	-	8	Y	Y	ı	-	5	ı	Υ

Install new base-mounted

cabinet on existing foundation.

35 MPH -3% Grade

US 25 (Merrimon Avenue)

 Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.

NOTES

2 Phase

Semi-Actuated

Asheville Signal System

- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- 4. 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.
- 5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 8. Pavement markings are existing.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

OASIS	2070	TIMING	CHAR1	Γ		
	PHASE					
FEATURE	2	4	6	8		
Min Green 1 *	10	7	10	7		
Extension 1 *	0.0	1.0	0.0	1.0		
Max Green 1 *	30	20	30	20		
Yellow Clearance	4.1	4.9	4.1	4.9		
Red Clearance	1.4	1.5	1.4	1.5		
Red Revert	2.0	2.0	2.0	2.0		
Walk 1 *	4	4	4	-		
Don't Walk 1	6	10	12	-		
Seconds Per Actuation *	-	-	-	-		
Max Variable Initial *	-	-	-	-		
Time Before Reduction *	-	-	-	-		
Time To Reduce *	-	-	-	-		
Minimum Gap	-	-	-	-		

MAX RECALL

ON

MAX RECALL

Recall Mode

Dual Entry

Vehicle Call Memory

Simultaneous Gap

<u>PROPOSED</u>		EXISTING
\bigcirc	Traffic Signal Head	
O ->	Modified Signal Head	N/A
\dashv	Sign	\dashv
\downarrow	Pedestrian Signal Head With Push Button & Sign	+
O)	Signal Pole with Guy	•
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	$\subset = = \supset$
	Controller & Cabinet	~
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
N/A	Curb Ramp	

Prepared in the Offices of:

NODILITY and DIVIDENCE OF SECTION PLAN

750 N. Greenfield Pkwy. Garner. NC 27529

PREPAR

US 25 (Merrimon Avenue) at Edgewood Road

Division 13 Buncombe County Asheville

PLAN DATE: December 2015 REVIEWED BY: Z.M. Little

PREPARED BY: R.N. Zinser REVIEWED BY:

SCALE

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REVISIONS

INIT. DATE

Reviewed BY:

Revisions

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED

^{*} 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.