

I	PHASING	DIAGRAM	DETECTION	LEGEN

◆ DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)
UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

TABLE OF	0	PER	ATI	ON
		Р	HAS	E
SIGNAL FACE		ØN+6	Ø4+8	止山⊄の王
21,22		G	R	Y
61		Ľ <b>├</b>	#	*
62,63		G	R	Y
81,82		R	O	R

IGNAL	FACE	I.D.	
All He	ads I F	D	

АІІ	Heads	L.E.D.
	12″	R Y 12
61		21,22 62,63 81,82

DETECTOR INSTALLATION CHART												
	DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
2A	6X6	70	EXIST	-	2	Yes	-	-	-	N	-	Х
2B	6X6	70	EXIST	-	2	Yes	_	_	_	N	_	Х
6A	6X6	70	EXIST	_	6	Yes	_	_	_	N	_	Х
6B	6X6	70	EXIST	-	6	Yes	1	1	_	N	-	Х
6C	6X40	0	2-4-2	-	6	Yes	_	_	_	N	_	Χ
* 8A	N/A	0	N/A	-	8	Yes	-	-	_	N	_	Χ

<sup>\*</sup> Microwave Detection

## SN 2329 (S. Main Street) SN 2329 (S. Main Street)

2 Phase Fully Actuated Gastonia Signal System

PROJECT REFERENCE NO.

C-5703

Sig.106.

## NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 2. Do not program signal for late night flashing
- operation unless otherwise directed by the Engineer.

  3. Reposition existing signal heads numbered 62 and 63.
- 4. Set all detector units to presence mode.
- 5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 6. Remove existing "Left Turn Signal" sign-(R10-10L)
- 7. Pavement markings are existing.
- 8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- 9. Install new cabinet on the existing cabinet foundation.
- 10. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
- 11. Reconnect lead-in cable to separate loops 2A & 2B and 6A & 6B, as shown.
- 12. Existing signal heads 61 & 62 have been relabeled to 62 & 63, respectively.
- 13. Existing phase 4 has been changed to phase 8 on this plan. Change all signal heads, pedestrian signal heads, pedestrian push buttons, and detection zones as needed to achieve the phasing shown.
- 14. City system data:

  Controller Asset #1320.

LEGEND

**PROPOSED EXISTING** Traffic Signal Head  $\bigcirc$ **—** Modified Signal Head N/A 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 \_\_\_\_\_  $\longrightarrow$ Directional Arrow N/A Guardrail  $\overline{\phantom{a}}$ Microwave Detection Area  $\bigcirc$ Out of Pavement Detector "YIELD" Sign (R1-2)

Ped Clear Veh. Extension 3.0 3.0 3.0 45 25 45 Yellow 4.1 4.1 3.0 1.8 1.8 2.4 Red Clear Red Revert 2.0 2.0 2.0 Actuations B4 Add Seconds /Actuation Max Initial \* Time Before Reduction

TIMING CHART

10

**FEATURE** 

Min Green \*

Walk \*

PHASE

6

10

\_

 Time To Reduce \*

 Minimum Gap

 Locking Detector
 X
 X

 Recall Position
 MIN RECALL MIN RECALL

 Dual Entry

 Simultaneous Gap
 X
 X
 X

\* 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.

PLANS PREPARED IN THE OFFICE OF:

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Signal Upgrade

SR 2329 (S. Main Street) at I-85 Southbound Ramp

Division 12 Gaston County Gastonia
PLAN DATE: May 2021 REVIEWED BY: SL Phillips
PREPARED BY: LL Matney REVIEWED BY: KP Baumann

SCALE
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30

SIGNATURES COMPLETED

C A R O

SEAL

044434

P B A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

DocuSigned by:

SIG. INVENTORY NO.

DocuSigned by:

3/11/2022

DATE

12-1320