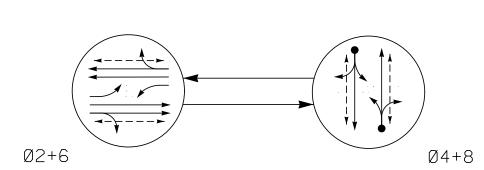
PROJECT REFERENCE NO. SHEET NO. C-5703 Sig.21.0

### PHASING DIAGRAM



#### PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT
UNDETECTED MOVEMENT (OVERLAP)

✓ — UNSIGNALIZED MOVEMENT
✓ — → PEDESTRIAN MOVEMENT

 TABLE OF OPERATION

 PHASE

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# SIGNAL FACE I.D. All Heads L.E.D.

12"	R 12"	16
21 61	22, 23 41, 42 62, 63 81, 82	P21, P22 P41, P42 P61, P62 P81, P82

	DET	ECTO	R IN	ST	TALI	_AT	ION	CHA	ART			
	DETE	CTOR			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
4A	6X40	+5	2-4-2	<u> -</u>	4	Yes	-	5	-	N	-	χ
8A	6X40	+5	2-4-2	_	8	Yes	-	5	•	N	-	χ

### 2 Phase Semi-Actuated Gastonia Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls on pedestrian phases 4 and 8.
- 6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 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. City system data:

Controller Asset #0045

	35 MPH -3% Grade		
US 29-74 (E. Franklin Boulevard) ====================================	P61 P61 P81 P61 P63 P63 P63 P62 P62 P62	35 MPH -1% Grade	 = = :
<i>→</i>	22 <del>(A)</del> —		_
	P22 P82 P82 P82 P82	US 29-74 (E. Franklin Boulevard)	

## **LEGEND**

LLULIND	
	<b>EXISTING</b>
Traffic Signal Head	<b></b>
Modified Signal Head	N/A
Sign	$\overline{}$
Pedestrian Signal Head With Push Button & Sign	•
Signal Pole with Guy	
Signal Pole with Sidewalk Guy	,
Type II Signal Pedestal	
Inductive Loop Detector	
Controller & Cabinet	
Junction Box	
2-in Underground Conduit	
Right of Way	
Directional Arrow	$\longrightarrow$
Street Name Sign (D3-1)	A
	Traffic Signal Head  Modified Signal Head  Sign  Pedestrian Signal Head  With Push Button & Sign  Signal Pole with Guy  Signal Pole with Sidewalk Guy  Type II Signal Pedestal  Inductive Loop Detector  Controller & Cabinet  Junction Box  2-in Underground Conduit  Right of Way  Directional Arrow

TIMING CHART						
	PHASE					
FEATURE	2	4	6	8		
Min Green *	10	7	10	7		
Walk *	7	7	7	7		
Ped Clear	8	16	7	16		
Veh. Extension *	_	2.0	-	2.0		
Max 1 *	45	25	45	25		
Yellow	3.9	4.1	3.9	4.1		
Red Clear	1.5	1.6	1.5	1.6		
Red Revert	2.0	2.0	2.0	2.0		
Actuations B4 Add *	-	-	-	_		
Seconds /Actuation *	_	_	-	_		
Max Initial *	-	-	-	-		
Time Before Reduction *	-	-	-	-		
Time To Reduce *	-	-	-	-		
Minimum Gap	-	-	-	_		
Locking Detector	-	-	-	-		
Recall Position	PED/MAX	-	PED/MAX	-		
Dual Entry	-	X	-	Χ		

\* 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.

Simultaneous Gap

PLANS PREPARED IN THE OFFICE OF:

Kimley >>> Horn

NC License #F-0102

421 Fayetteville Street, Suite 600
Raleigh, NC 27601

(919) 677-2000

Signal Upgrade

US 29-74 (E. Franklin Boulevard) at

Chestnut Street

Division 12 Gaston County Ga

PLAN DATE: May 2021 REVIEWED BY: SI Phill

Division 12 Gaston County Gastonia

PLAN DATE: May 2021 REVIEWED BY: SL Phillips

750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: CF Davis REVIEWED BY: KP Baumann

SCALE

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