## DEFAULT PHASING TABLE OF OPERATION PHASE 21, 22 61, 62 P21, P22 DW W DW DW P81, P82 | D W | D W | W | D W

# ALTERNATE PHASING DIAGRAM Ø2+6

ALTERNAT TABLE OF	_ :					
	PHASE					
SIGNAL FACE	Ø 1 + 6	⊠N+60	Ø &	止し年の王		
1:1	-	<del></del>	<b>→</b> R	<b>→</b>		
21, 22	R	G	R	Υ		
61, 62	G	G	R	Υ		
81	R	R	G	R		
82	R/	R	G	R		
P21, P22	D·W	W	D·W	DW		
P81, P82	DW	DW	W	D <sub>1</sub> W		

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
ί. Λ	6X60	. 0	2 - 4 - 2		1	Yes	-	15 *	-	N	_	Χ
1 A	0,00		2-4-2	-	6#	Yes	_	3	_	N	-	Χ
1·B	6X60	0	2 - 4 - 2	_	1	Yes	-	15	_	N	_	Χ
2·A	6X6	7.0	6	X	2	Yes	_	_	_	N	-	Χ
6·A	6X6	7.0	6	Χ	6	Yes	-	-	-	N	-	Χ
8·A	6X60	0	2-4-2	-	8	Yes	_	3	_	N	_	Χ

- \* Disable Delay during Alternate Phasing operation.
- # Disable Phase call for loop during Alternate Phasing operation.

#### PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

SR 2200 (Armstrong Park Road) 🕇

35 MPH -1% Grade

P21, P22 P81, P82

 $\frac{1}{12} = \frac{1}{12} = \frac{1}{12}$ 

SIGNAL FACE I.D.

All Heads L.E.D.

Disconnect & Abandon

Existing Loop

TIMING CHART **PHASE FEATURE** 10 10 Min Green Walk \* 15 12 Ped Clear 1.0 1.0 3.0 Veh. Extension \* Max 1 \* 20 60 60 25 3.0 4.1 4.1 3.4 Yellow 1.5 Red Clear 1.9 2.0 2.0 2.0 2.0 Red Revert Actuations B4 Add Seconds / Actuation ' Max Initial \* Time Before Reduction

\* 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

MIN RECALL MIN RECAL

Existing Loop P21 SR 2200 (Armstrong Park Road)

Disconnect & Abandon

PLANS PREPARED IN THE OFFICE OF:

421 Fayetteville Street, Suite 600

NC License #F-0102

Raleigh, NC 27601

(919) 677-2000

3 Phase

PROJECT REFERENCE NO. C-5703 Sig.126.

Fully Actuated w/ Alternate Phasing Operation Gastonia Signal System

#### NOTES

- 1. 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. Phase 1 may be lagged.
- 4. Reposition existing signal head numbered 62, 81, & 82.
- 5. Set all detector units to presence mode.
- 6. In the event of loop replacement, refer to the current ITS and Signal Design Manual and submit a Plan of Record to the Signal Design Section.
- 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. All proposed pedestrian pedestals and pushbutton posts shall be black in color. See Project Special Provisions for
- 11. Pavement markings are existing.
- 12. The City Engineer or their representative will determine the hours of use for each phasing plan.
- 13. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- 14. Disconnect and abandon existing loops 2A & 6A and re-cut new loops as shown on this plan.
- 15. Install new cabinet on the existing cabinet foundation.
- 16. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
- 17. All proposed pushbutton posts shall be black in color. See Project Special Provisions for details.
- 18. Existing phase 4 has been changed to phase 8 on this plan. Change all signal heads, pedestrian signal heads, pedestrian push buttons, and loops as needed to achieve the phasing shown.
- 19. City system data:

Controller Asset #1603.

### LEGEND

<u>PROPOSED</u>		<b>EXISTING</b>
$\bigcirc$	Traffic Signal Head	<b></b>
<b>O</b>	Modified Signal Head	N/A
$\dashv$	Sign	$\dashv$
<b>\B</b>	Type I Pushbutton Post	<b>☆</b>
<b>↓</b>	Pedestrian Signal Head With Push Button & Sign	<b>#</b>
	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	$\longrightarrow$
N/A	Curb Ramp	
$\langle A \rangle$	Street Name Sign (D3-1)	$\triangle$

Signal Upgrade

Kimley » Horn

1"=40'

SR 2200 (Armstrong Park Road) Gardner Park Elem. School

(Spirit Circle) Gaston County Division 12 Gastonia May 2021

REVIEWED BY: SL Phillips 750 N.Greenfleid Pkwy.Garner,NC 27529 PREPARED BY: SP Pennington REVIEWED BY: KP Baumann

044434

DOCUMENT NOT CONSIDERED

SIGNATURES COMPLETED

FINAL UNLESS ALL

3/11/2022 

SIG. INVENTORY NO.

lower than 4 seconds.

Time To Reduce \*

Minimum Gap

Locking Detector

Simultaneous Gap

**Recall Position** 

**Dual Entry**