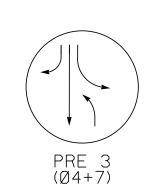
PROJECT REFERENCE NO. C-5703 Sig.6.1

8 Phase Fully Acutated w/ Alternate Phasing Operation and Emergency Vehicle Preemption 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 and/or phase 5 may be lagged.
- 4. Phase 3 and/or phase 7 may be lagged.
- 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. The City Engineer or their representative will determine the hours of use for each phasing plan.
- 11. Pavement markings are existing.
- 12. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- 13. Install new cabinet on the existing cabinet foundation.
- 14. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
- 15. Install GPS emergency preemption system per manufacturer's instructions to achieve preemption needed, as shown in phasing diagram.
- 16. City System Data: Controller Asset: #0029

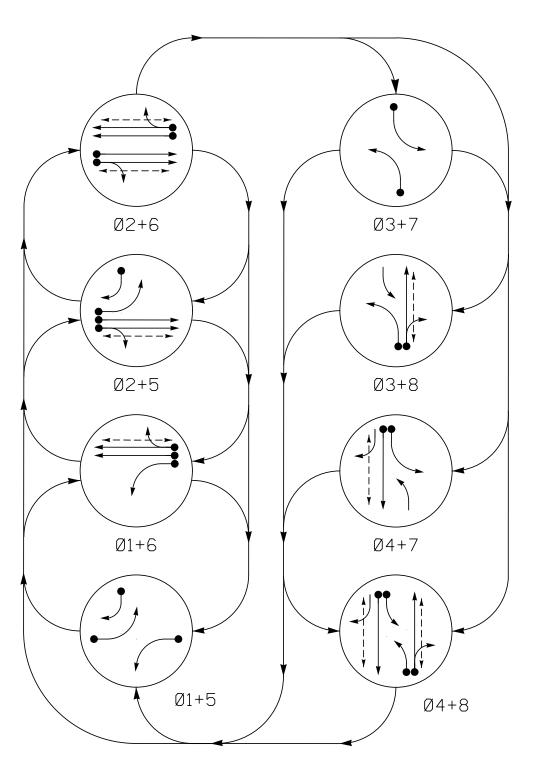
ALTERNATE PHASING DIAGRAM



DEFAULT PHASING

EV PREEMPT PHASES

(Medium Priority)



PHASING DIAGRAM DETECTION LEGEND

DEFAULT PHASING

TABLE OF OPERATION

DW DW | W | W | DW | DW | DW | DW | DR

P41, P42 | DW | DW | DW | DW | DW | W | W | DW | DR

P81, P82 | DW | DW | DW | DW | W | DW | W | DW | DR

DEFAULT PHASING DIAGRAM

Ø3+7

Ø3+8

Ø4+7

Ø4+8

Ø2+6

Ø2+5

Ø1+6

61, 62

DETECTED MOVEMENT

Ø1+5

UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMENT  $<\!\!\!--\!\!\!>$  PEDESTRIAN MOVEMENT

ALTERNATE PHASING TABLE OF OPERATION										
	PHASE									
SIGNAL FACE	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 3 + 7	Ø 3 + 8	Ø 4 + 7	Ø 4 + 8	P R E 3	FLASH
1:1	<b>—</b>	<b>←</b>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<b>→</b>
21, 22	R	R	G	G	R	R	R	R	R	Υ
31	#	*	₩	*	-	<b>—</b>	<del>F</del>	F	Ŧ	₩
41	R	R	R	R	R	R	G	G	G	R
4.2	R/	R	<u>R</u> /	R	R	R	G	G	G	R
51	<b>—</b>	#	-	#	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<b>→</b>
61, 62	R	G	R	G	R	R	R	R	R	Υ
71	<del></del>	<del>▼</del>	<del></del>	₩	-	Ŧ	-	Ŧ	-	<del></del>
81, 82	R	R	R	R	R	G	R	G	R	R
P21, P22	DW	DW	W	W	DW	DW	DW	D·W	D·W	DRK
P41, P42	DW	D·W	D·W	DW	D·W	D·W	W	W	DW	DRK
P61, P62	D-W	W	D₩	W	DW	DW	DW	DW	DW	DRK

P81, P82 | DW | DW | DW | DW | W | DW | W | DW | DR

EV PREEMF	PT
FUNCTION	PRE 3
Exit Phase(s)	4+8
Preempt Override	OFF
Delay Time	0
Ped Clear Through Yellow	Y
Terminate Phases	N
Entrance Walk	1
Entrance Ped Clear	255 <del>*</del>
Entrance Min Green	1
Entrance Yellow Change	25 <b>.</b> 5*
Entrance Red Clear	25.5 <del>*</del>
Minimum Dwell Time	7
Preempt Input Extension Time **	2
Preempt Max Time	120
Exit Yellow Change	25 <b>.</b> 5*
Exit Red Clear	25 <b>.</b> 5*
Time defaults to time used for pho	ase during norma

ALTERNATE PHASING

EV PREEMPT PHASES

(Medium Priority)

PRE 3 (Ø4+7)

\*\* Program Timing on GPS Detection Unit

Signal Upgrade - Sheet 2 of 2

1"=40'

SIGNATURES COMPLETED US 29/74 (Franklin Boulevard) SR 1136 (Myrtle School Road) Division 12 Gaston County May 2021 REVIEWED BY: SL Phillips

PLANS PREPARED IN THE OFFICE OF: Kimley » Horn NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601

(919) 677-2000

750 N.Greenfleld Pkwy, Garner, NC 27529 PREPARED BY: DM Curri REVIEWED BY: KP Baumann

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

Kem Barran 3/11/2022 SIG. INVENTORY NO.