DEFAULT PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNSIGNALIZED MOVEMENT

Joint-use Pole -

Simultaneous Gap

PEDESTRIAN MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

DEFAULT PHASING

TABLE OF OPERATION

SIGNAL

FACE

21, 22

61, 62, 63

81, 82

Joint-use Pole

- Joint-use Pole

Joint-use Pole

PHASE

0 | Ø |

3 Phase 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. Set all detector units to presence mode.
- 5. Pavement markings are existing.
- 6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 7. The City Engineer or their representative will determine the hours of use for each phasing plan.
- 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. 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.
- 12. City system data:

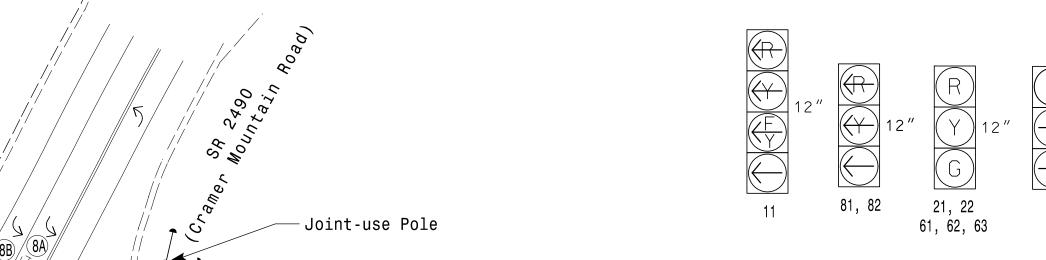
Controller Asset #1541.

DETECTOR INST					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
1 A	6 X 4 0	0	2 - 4 - 2	- -	1	Yes	-	15*	-	Ν	-	Χ
					6 #	Yes	-	3	-	G	-	Χ
1 B	6 X 4 0	0	2 - 4 - 2	-	1	Yes	-	10	_	N	-	Χ
2 A	6 X 6	300	EXIST	-	2	Yes	-	-	Χ	N	_	Χ
6 A	6 X 6	300	EXIST	-	6	Yes	-	_	Χ	N	_	Χ
8 A	6 X 4 0	0	2 - 4 - 2	-	8	Yes	_	3	_	N	_	Χ
8 B	6 X 4 0	0	2 - 4 - 2	-	8	Yes	-	_	_	N	-	Χ

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

SIGNAL FACE I.D.

(All signal heads are L.E.D.)



ALTERNATE PHASING

TABLE OF OPERATION

SIGNAL

FACE

21, 22

61, 62, 63

81, 82

45 MPH -2% Grade

PHASE

ALTERNATE PHASING DIAGRAM

TIMING CHART PHASE **FEATURE** 8 Min Green 12 7 Ped Clear -Veh. Extension 2.0 6.0 2.0 Max 1 * 20 100 25 3.0 3.0 4.9 4.9 Red Clear 2.6 1.6 1.6 2.9 2.0 2.0 2.0 2.0 Red Revert Actuations B4 Add ' 2.5 2.5 Seconds / Actuation 34 34 Max Initial * -Time Before Reduction ' -Time To Reduce 3 30 -3.0 3.0 -Minimum Gap Locking Detector MIN RECALL MIN RECALL **Recall Position Dual Entry** -

phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LEGEND **PROPOSED EXISTING** Traffic Signal Head **●**→ \bigcirc Modified Signal Head N/A Pedestrian Signal Head With Push Button & 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 Directional Arrow "YIELD" Sign (R1-2)

Signal Upgrade

1"=40'

NC 279 (New Hope Road) |SR 2490 (Cramer Mountain Road)

Division 12 Gaston County May 2021 REVIEWED BY: SL Phillips 750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: SP Pennington REVIEWED BY: KP Baumann

3/11/2022 DATE SIG. INVENTORY NO.

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL

SIGNATURES COMPLETED

PLANS PREPARED IN THE OFFICE OF: Kimley » Horn NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 (919) 677-2000