

SR 2200 (Cox Road)

FEATURE	PHASE			
	1	2	4	6
Min Green *	7	10	7	10
Walk *	_	-	_	_
Ped Clear	-	-	_	_
Veh. Extension *	1.0	3.0	2.0	3.0
Max 1 *	15	45	25	45
Yellow	3.2	4.4	3.0	4.4
Red Clear	3.1	2.8	2.6	2.8
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	-	X	-	X
Recall Position	-	MIN RECALL	-	MIN RECALL
Dual Entry	-	-	-	-
Simultaneous Gap	Χ	X	Χ	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.

EV PREEMPT				
FUNCTION	PRE 3			
Exit Phase(s)	2+6			
Preempt Override	OFF			
Delay Time	0			
Ped Clear Through Yellow	N			
Terminate Phases	N			
Entrance Walk	-			
Entrance Ped Clear	-			
Entrance Min Green	1			
Entrance Yellow Change	25 . 5*			
Entrance Red Clear	25 . 5*			
Minimum Dwell Time	7			
Preempt Input Extension Time **	2			
Preempt Max Time	120			
Exit Yellow Change	25 . 5*			
Exit Red Clear	25 . 5*			

35 MPH +7% Grade

* Time defaults to time used for phase during normal operation

** Program Timing on GPS Detection Unit

Signal Upgrade

SOUTH

- Disconnect & Abandon

Existing Loop

PLANS PREPARED IN THE OFFICE OF:

NC License #F-0102

Raleigh, NC 27601

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Kimley » Horn

421 Fayetteville Street, Suite 600

SR 2200 (Cox Road)

NORTH

I-85 Northbound Ramps Division 12 Gaston County REVIEWED BY: SL Phillips May 2021 REVIEWED BY: KP Baumann

Gastonia 750 N.Greenfield Pkwy.Garner,NC 27529 PREPARED BY: DM Curri 1"=30' SIG. INVENTORY NO.

N/A

PROJECT REFERENCE NO. C-5703 Sig 96 0

3 Phase Fully Actuated w/ Alternate Phasing Operation and Emergency Vehicle Preemption

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 heads numbered 21 and 22. 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. Pavement markings are existing.

9. The City Engineer or their representative will determine the hours of use for each phasing plan.

10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.

11. Install new cabinet on the existing cabinet foundation.

12. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.

13. Reconnect lead-in cable to separate loops 2A, 2B, 2C, 6A & 6B, as shown.

14. Existing signal head 43 has been relabeled to 44.

15. Install GPS emergency preemption system per manufacturer's instructions to achieve preemption needed, as shown in phasing diagram.

16. Install Louver in existing signal head 44.

17. City system data:

Controller Asset #1086.

LEGEND

EXISTING Traffic Signal Head **-**Modified Signal Head N/A Sign Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet

Junction Box

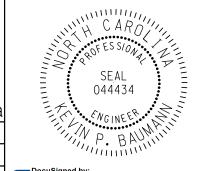
2-in Underground Conduit Right of Way Directional Arrow

Left Arrow "ONLY" Sign (R3-5L) Right Arrow "ONLY" Sign (R3-5R)

No Left Turn Sign (R3-2) "YIELD" Sign (R1-2) "DO NOT BLOCK INTERSECTION"

Sign (R10-7) Street Name Sign (D3-1)

> FINAL UNLESS ALL SIGNATURES COMPLETED



DOCUMENT NOT CONSIDERED

3/11/2022 DATE

12-1086