02+6

PRE 3 (Ø1+6)

DISTANCE YSTEM LOO NEW CARD SI EXTEND DELAY
TIME TIME SIZE FROM LOOP PHASE STOPBAR |Yes| 1 A 0 6X40 2A 6X6 70 2 Yes 2B 70 2 Yes 6X6 6X6 70 2 Yes 6X40 0 | 2-4-2 | X | 4 | Yes | 6X40 0 | 2-4-2 | X | 4 | Yes | 4B 6A 70 6X6 6 Yes

6 Yes

6 Yes

ASC/3 DETECTOR INSTALLATION CHART

PROGRAMMING

DETECTOR

6X6

6X6 70

st 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

DEFAULT PHASING TABLE OF OPERATION						
	PHASE					
SIGNAL FACE	Ø 1 + 6	Ø2+6	Ø 4	PRE ~	FLASI	

21, 22

41, 42

61,62

P21, P22

ALTERNATE PHASING TABLE OF OPERATION					
PHASE					
SIGNAL FACE	Ø 1 + 6	Ø2+6	0 4	ежы о	トーセのエ
11	—		≺R		- ¥
21, 22	R	1	R	R	Υ
41, 42	R	R	G	R	R
61, 62	1	1	R	1	Υ
P21, P22	DW	W	DW	DW	DRK

ALTERNATE PHASING TABLE OF OPERATION					
	PHASE				
SIGNAL FACE	01+6	Ø2+6	0 4	PRE 3	FLAOI
11	—	- 		←	- ¥
21, 22	R	1	R	R	Υ
41, 42	R	R	G	R	R
61,62	1	1	R	1	Υ
P21, P22	DW	W	DW	DW	DRK

ASC	C/3 TI	MING C	HART			
	PHASE					
FEATURE	1	2	4	6		
Min Green *	7	10	7	10		
Walk *	-	7	-	-		
Ped Clear	-	4	-	-		
Veh. Extension *	2.0	3.0	2.0	3.0		
Max 1 *	25	50	20	50		
Yellow	3.0	3.9	4.0	3.9		
Red Clear	3.2	2.4	2.6	2.4		
Actuations B4 Add *	-	-	_	-		
Seconds /Actuation *	-	-	-	-		
Max Initial *	-	-	-	-		
Time Before Reduction *	-	-	-	-		
Time To Reduce *	-	-	-	-		
Minimum Gap	_	-	-	-		
Locking Detector	-	X	-	X		
Recall Position	-	VEH. RECALL	-	VEH. RECALL		
Dual Entry	-	-	-	-		
Simultaneous Gap	Х	X	Х	Х		

* 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.

ASC/3 EV PRE	EMPT
FUNCTION	PRE 3
Exit Phase(s)	2+6
Preempt Override	OFF
Delay Time	0
Ped Clear Through Yellow	Y
Terminate Phases	N
Entrance Walk	1
Entrance Ped Clear	255 *
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*

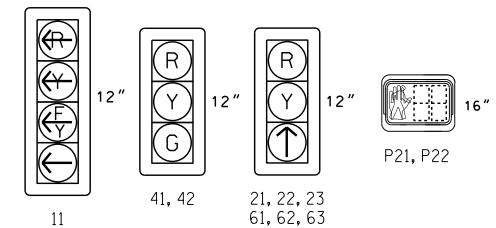
* Time defaults to time used for phase during

normal operation.
** Program Timing on GPS Detection Unit.

S	-0306C		MPH +1% Grade	
	63 	\	1A	

SIGNAL FACE I.D.

All Heads L.E.D.



Signal Upgrade

1"=40'

SR 1401 (Cole Mill Road) I-85 NB/ US 70 EB Ramps Division 5 Durham County

June 2023 REVIEWED BY: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: J.A. Lohr REVIEWED BY: REVISIONS INIT. DATE

2. Do not program signal for late night flashing operation unless otherwise directed by the

Sig 3.0

PROJECT REFERENCE NO.

I-5941

4. Reposition existing signal heads 11, 21, 22, 61, and 62. 5. All existing vehicle signal heads have

NOTES

1. Refer to "Roadway Standard Drawings NCDOT"

Specifications for Roads and Structures"

dated January 2024 and "Standard

3 Phase

Fully Actuated

w/ Emergency Vehicle Preemption

dated January 2024.

3. Phase 1 may be lagged.

Engineer.

PROPOSED

 \bigcirc

N/A

N/A

(Durham Signal System)

backplates. 6. Install backplates on new signal heads

23 and 63. 7. Set all detector units to presence mode.

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. Pavement markings are existing unless otherwise shown.

11. This intersection features a GPS preemption system.

12. The Division (City) Traffic Engineer 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 supersede these values.

LEGEND

<u>EXISTING</u> 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 K×3 Controller & Cabinet Junction Box 2-in Underground Conduit Right of Way \longrightarrow Directional Arrow Metal Pole with Mastarm Type II Signal Pedestal Curb Ramp

"YIELD" Sign (R1-2) No Right Turn Sign (R3-1) No Left Turn Sign (R3-2) Combined Through and Left Arrow Sign (R3-6L)

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

Pedestrian Crossing Sign (W11-2) w/ Diagonal Arrow Plaque (W16-7pL)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED CARO 026486

05-1235

SIG. INVENTORY NO.