PROJECT REFERENCE NO. R - 4707 Sig. 15.

4 Phase Fully Actuated

SR 4771 (Reedy Fork Parkway) CLS Signal System: 10727

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.

<u>NOTES</u>

- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Program controller to start up in phase 4 Red Clear and phase 8 Red Clear.
- 4. Set all detector units to presence mode.
- 5. Omit phase 8 during phase 2 on.
- 6. Program controller to clear from phase 2 to phase 8 by progressing through phase 7.
- 7. Omit phase 7 during phase 8 on.
- 8. Phase 7 provides red clearance for vehicles traveling eastbound on Reedy Fork Parkway.
- 9. Omit "WALK" and flashing "DON'T WALK" with no pedestrian
- am pedestrian heads to countdown the flashing Walk" time only.
- um times shown in timing chart are for free-run ion only. Coordinated signal system timing values sede these values.

Metal Pole with Mastarm

Curb Ramp

No Right Turn Sign (R3-1)

No Left Turn Sign (R3-2)

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

"STOP Here on Red" Sign (R10-6a)

"No Turn on Red" Sign (R10-11)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED

	9. Omit WALK calls.	and flashing DON I WALK	with no peaestri
		destrian heads to countdown th	ne flashing
	"Don't Walk"	' time only.	
	11. Maximum tir	mes shown in timing chart are f	or free-run
	operation on	ly. Coordinated signal system	timing values
	supersede th	nese values.	
	12. Closed loop	system data: Controller Asset	#: 0905
		LEGEND	
	DDADAGED	LLULIND	CVICTINO
- /	<u>PROPOSED</u>		<u>EXISTING</u>
	○	Traffic Signal Head	
	O ->	Modified Signal Head	N/A
	\dashv	Sign	_
	ф	Pedestrian Signal Head	•
	†	With Push Button & Sign	*
	()	Signal Pole with Guy	
	<u> </u>	ignal Pole with Sidewalk Gu	лу — — — -
		Inductive Loop Detector	(
		Controller & Cabinet	~
		Junction Box	<u> </u>
		Oversize Junction Box	
		2-in Underground Conduit	
	N/A	Right of Way	
	\longrightarrow	Directional Arrow	→
	— DD —	Directional Drill	
	N/A	Guardrail	1 1
		Type II Signal Pedestal	•
		Metal Pole with Mastarm	

Signal Upgrade	- Final Desi
Prepared for: Nobility and	SR 4771 (R
Division	US 29 N

1"=40'

Reedy Fork Parkway)

Transp	US	29	North	bound	Ramps
S. L. S.	Division 7	7	Guilford	County	Greensbo
Conol Design Section	PLAN DATE:	April	2020	REVIEWED BY:	L. Boyer
750 N.Greenfield Pkwy.Garner.NC 27529	PREPARED BY:	A. Ra	vipati	REVIEWED BY:	R. Hinshaw

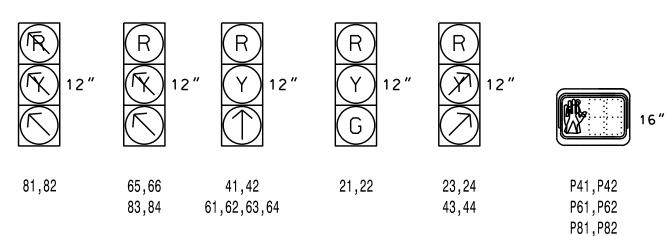
INIT. DATE SIG. INVENTORY NO. 07-0905

	ASC	C/3 DE	TECTO	R	INST	ALL.	ATION	I CHA	RT			
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
2 A	6 X 4 0	0	2 - 4 - 2	Х	2	Yes	-	-	-	S	-	Χ
4 A	6 X 4 0	0	2 - 4 - 2	-	4	Yes	-	-	-	S	-	-
4 B	6 X 4 0	0	2 - 4 - 2	-	4	Yes	-	-	-	S	-	-
6 A	6 X 4 0	0	2 - 4 - 2	-	6	Yes	-	-	-	S	-	-
6 B	6 X 4 0	0	2 - 4 - 2	-	6	Yes	-	-	-	S	-	-
6 C	6 X 4 0	0	2 - 4 - 2	-	6	Yes	-	-	-	S	-	-
6 D	6 X 4 0	0	2 - 4 - 2	-	6	Yes	-	-	-	S	-	-
8 A	6 X 4 0	0	2 - 4 - 2	-	8	Yes	-	-	-	S	-	-
8 B	6X40	0	2 - 4 - 2	-	8	Yes	-	-	-	S	_	-

DW DW W DW DRK Metal Pole #5 SR 4771 (Reedy Fork Parkway) SR 4771 (Reedy Fork Parkway) Metal Pole #4 34' LT

SIGNAL FACE I.D.

All Heads L.E.D.



0 Ped Clear 15 0 4 2.0 2.0 2.0 0.0 2.0 0.0 Veh. Extension 60 3.8 4.2 3.0 3.4 3.0 Yellow 3.6 3.0 2.3 1.0 4.0 1.0 2.1 Red Clear 2.0 2.0 2.0 2.0 2.0 2.0 Red Revert Actuations B4 Add Seconds /Actuation -Max Initial * Time Before Reduction Time To Reduce * Minimum Gap --Locking Detector SOFT RECALI **Recall Position**

ASC/3 TIMING CHART

10

PHASE

7 (DUMMY)

0

5

9 (ALL RED)

0

PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

02+6

FEATURE

Min Green *

Dual Entry

Simultaneous Gap

2

0

Х

04+7

04+8

TABLE OF OPERATION

SIGNAL

FACE

21,22

23,24

41,42

43,44

61,62,63,64

65,66

83,84

P41,P42

P61,P62

P81**,**P82

PHASE

 $R|R|\setminus R|R$

w | Dw | Dw | DR |

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



