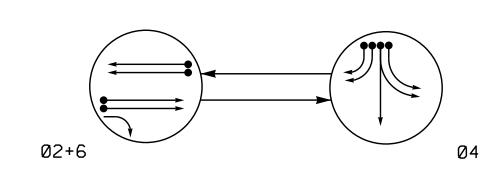
## PHASING DIAGRAM



PHASTNG	DTAGRAM	DETECTION	I FGFND
	<b>2 1</b> 7 ( <b>3</b> 11 17 11 11		

<b>←</b>	DETECTED MOVEMENT
<b>←</b>	UNDETECTED MOVEMENT (OVERLAP)
<b>←</b>	UNSIGNALIZED MOVEMENT

<−−> PEDESTRIAN MOVEMENT

TABLE OF 0	PER	ATI	ON
	Р	HAS	E
SIGNAL FACE	Ø2+6	Ø 4	エロひエ
21, 22	G	R	Υ
41, 42	R	G	R
43, 44	R	<b></b>	R
61,62	G	R	Y

SIGNAL	FACE	I.D.
O I GIV IL	1 / ()	<b>+. </b>

АІІ	Heads	L.E.D.
$\neg$	110000	

	21, 22 43, 44 41, 42 61, 62	I-85 SB		
		Off-Ramp   AD (  AD (  AD (		
SR 2894 (Conco	ord Mills Blvd.)			=== <u>45 MPH</u> +1% Grade
		62 61 A	<b>←</b>	
		21 — 22 — 22		
45 MPH	-1% Grade	44 43 42 41	SR 28	894 (Bruton Smith Blvd.)

ASC/3	TIMIN	G CHAR	Т
		PHASE	
FEATURE	2	4	6
Min Green *	12	7	12
Walk *	-	-	-
Ped Clear	-	-	-
Veh. Extension *	6.0	1.0	6.0
Max 1 *	90	25	90
Yellow	4.6	3.1	4.6
Red Clear	1.7	3.1	1.7
Red Revert	2.0	2.0	2.0
Actuations B4 Add *	-	-	-
Seconds /Actuation *	1.5	_	1.5
Max Initial *	34	_	34
Time Before Reduction *	15	-	15
Time To Reduce *	45	-	45
Minimum Gap	3.0	-	3.0
Locking Detector	Х	-	Х
Recall Position	VEH. RECALL	-	VEH. RECALI
Dual Entry	-	-	-
Simultaneous Gap	Х	Х	Х

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 DETECTOR INSTALLATION CHART											
	DETE	CTOR				PRO	GRAMM	ING			
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
2A	6X6	300	4	Υ	2	Yes	-	-	S	-	-
2B	6X6	300	4	Υ	2	Yes	-	-	S	-	-
4A	6X60	+5	2-4-2	-	4	Yes	-	_	S	-	_
4B	6X60	+5	2-4-2	-	4	Yes	-	-	S	-	_
4C	6X60	+5	2-4-2	-	4	Yes	-	15	S	-	_
4D	6X60	+5	2-4-2	-	4	Yes		15	S	_	_
6A	6X6	300	4	_	6	Yes			S	_	_
6B	6X6	300	4	_	6	Yes			S	_	_
6C	6X6	300	4	_	6	Yes	_	_	S	_	_

2 Phase Fully Actuated Concord City Signal System

## **NOTES**

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Install new 2070E Controller in existing cabinet. 4. Reposition existing signal heads numbered 21, 22, 61, and
- 5. Reposition existing signs "A". 6. Disconnect existing system
- detectors S12, S13, and S14. 7. Set all detector units to presence mode.
- 8. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 10. Closed loop system data: Controller Asset #: 1522

## LECEND

	<u>LEGEND</u>	
<u>PROPOSED</u>		<b>EXISTING</b>
$\bigcirc$	Traffic Signal Head	<b></b>
<b>O</b>	Modified Signal Head	N/A
$\dashv$	Sign	$\dashv$
$\downarrow$	Pedestrian Signal Head With Push Button & Sign	<b>•</b>
<u> </u>	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	$\subset = = = = = = = = = = = = = = = = = = =$
	Controller & Cabinet	K K Z
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
$\longrightarrow$	Directional Arrow	$\longrightarrow$
	Construction Zone	
$\langle A \rangle$	No Left Turn Sign (R3-2)	$\bigcirc$

Signal Upgrade - Temporary Design - Phase II

## SR 2894 (Concord Mills Blvd./ Bruton Smith Blvd.) at I-85 SB Ramps

Division 10 Cabarrus County PLAN DATE: August 2017 REVIEWED BY: T.J. Williams

750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: R.N. Zinser REVIEWED BY: INIT. DATE

FINAL UNLESS ALL SIGNATURES COMPLETED SIG. INVENTORY NO. 10-1522 T

DOCUMENT NOT CONSIDERED