## 3 Phase Fully Actuated Fayetteville 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 5 may be lagged.
- 4. Bag signal head 41.
- 5. Set all detector units to presence mode.
- 6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 7. Install Metal Poles #3 and #4 to maintain 10-ft separation from adjacent O/H power lines and to avoid impacts to adjacent utilities.

<u>EXISTING</u>

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

2022.01.05 14:58:57-05'00'

— Sign — ⊢
Pedestrian Signal Head
Video Detection Area  Controller & Cabinet  Junction Box  Over-sized Junction Box  2-in Underground Conduit
Directional Arrow  Type II Signal Pedestal  PuE Pue Perm. Utility Easement  Right of Way  Construction Zone

**LEGEND** 

Traffic Signal Head

Metal Strain Pole

<u>PROPOSED</u>

ASC/3 DETECTOR INSTALLATION CHART												
	DETE		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	6X6	300	*	*	2	YES	-	-	Χ	Ν	+	*
4·A	6X:40	0	*	*	4	YES	_	3		Ν	1	*
5·A	6X:40	0	*	*	5	YES	-	15	-	Ν	1	*
D'A	68.40			本   本	2	YES	-	3	-	G	ı	*
5·B	6X40	0	*	*	5	YES	-	15	-	N	-	*
6·A	6X6	300	*	*	6	YES	-	-	Χ	N	-	*
* Video Detection Zone												

TADLE OF	ΛDI	_DV.	TΤΛ	N I	SIGNAL TACE I.D.
TABLE OF	ויוט	EKA	110	IN	All Heads L.E.D.
		PHA	ASE		
SIGNAL FACE	Ø2+5	Ø2+6	Ø 4	上し口のエ	R R R 12" Y 12" Y 12"
21, 22	G	G	R	Υ	$\left(\begin{array}{ccc} \left(\begin{array}{ccc} \left(ccc} \right) \right) \right) & (ccc) \right) \\ (ccc) & (ccc) \end{array} \right) \end{array} \right) \end{array} \right) \end{array} \right)$
41, 42	<del></del>	<del></del>	-	<del>▼R</del>	41, 42 21, 22 61, 62
43	-	R	F	R	61, 62
51	-	<del>F</del> Y	<del></del>	<b>*</b>	51 63
61, 62	R	G	R	Y	
6-3	R	<del>F</del> Y	-	<del>Y-</del>	

SIGNAL FACE I.D.

		Lane Closed See U-5798A TM	MP Plans			
LAP)	osted Speed Limit	(Design Speed 25 MPH) -6% Grade  Shopping Center Driveway				
R/W SR 1102 (Gillis Hill Road)	Std. Case S30L1 -L- Sta. 100+18 +/- LT 54' +/-	B/W 63	Metal Pole #2 Std. Case S26L1 -L- Sta. 101+31 +/- LT 68' +/-			R/W Ewalk
Sidewalk		62 				6A •
Sidewalk	Metal Pole #4 Std. Case S30L1 -L- Sta. 100+22 +/- RT 59' +/- PUE ————————————————————————————————————	PUE — PUE	Metal Pole #3 Std. Case S35L1 -L- Sta. 101+24 +/- RT 62' +/- PUE	PUE	SR 1102 (Gillis Hill I	ralk R/W Road)

ASC/3 TIMING CHART								
	PHASE							
FEATURE	2	4	5	6				
Min Green *	12	7	7	12				
Walk *	-	-	-	-				
Ped Clear	-	-	-	-				
Veh. Extension *	6.0	2.0	2.0	6.0				
Max 1 *	50	30	20	50				
Yellow	4.0	3.1	3.0	4.0				
Red Clear	2.5	3.3	3.3	2.5				
Actuations B4 Add *	0	-	-	0				
Seconds /Actuation *	1.8	-	-	1.8				
Max Initial *	34	-	-	34				
Time Before Reduction *	15	-	-	15				
Time To Reduce *	30	-	-	30				
Minimum Gap	3.0	-	-	3.0				
Locking Detector	Х	-	-	X				
Recall Position	VEH. RECALL	-	-	VEH. RECALL				
Dual Entry	-	-	-	-				
Simultaneous Gap	X	X	X	X				

PHASING DIAGRAM

02+5

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

 $\leftarrow$  -  $\Rightarrow$  PEDESTRIAN MOVEMENT

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

Ø2+6\

\* 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.

Temporary Signal 3 - TCP Phase IV

SR 1102 (Gillis Hill Road)

Shopping Center Driveway Division 6 Cumberland County Fayetteville PLAN DATE: January 2022 REVIEWED BY: J. Reid

REVISIONS INIT. DATE

**ARCADIS** 5420 Wade Park Boulevard Suite 350 Raleigh, NC 27607

750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: C. Evans SIG. INVENTORY NO. 06-1243T