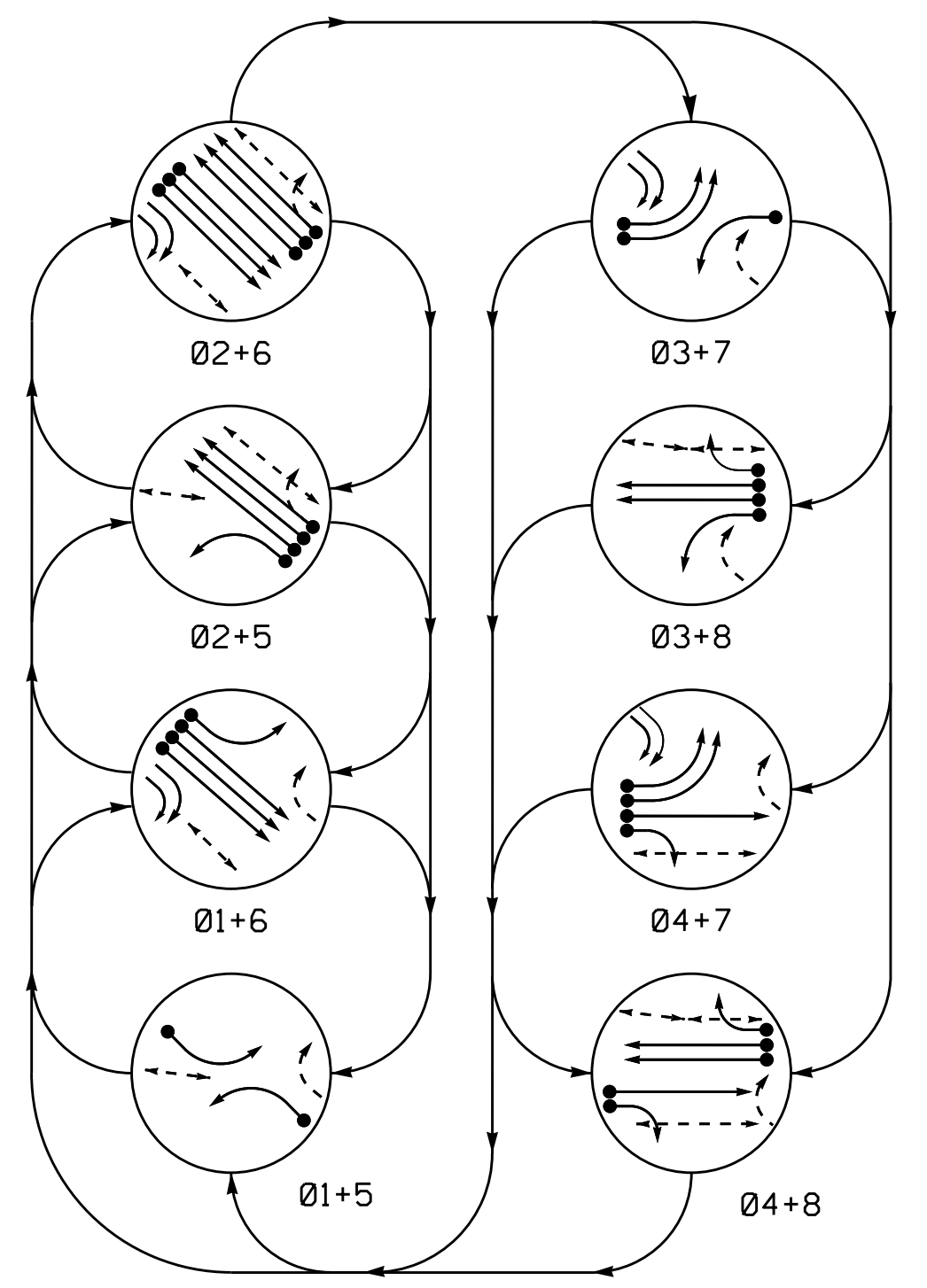
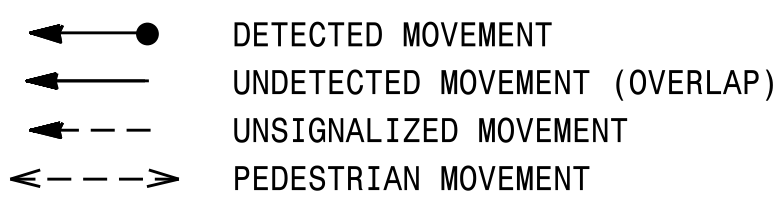


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND



SIGNAL FACE I.D.

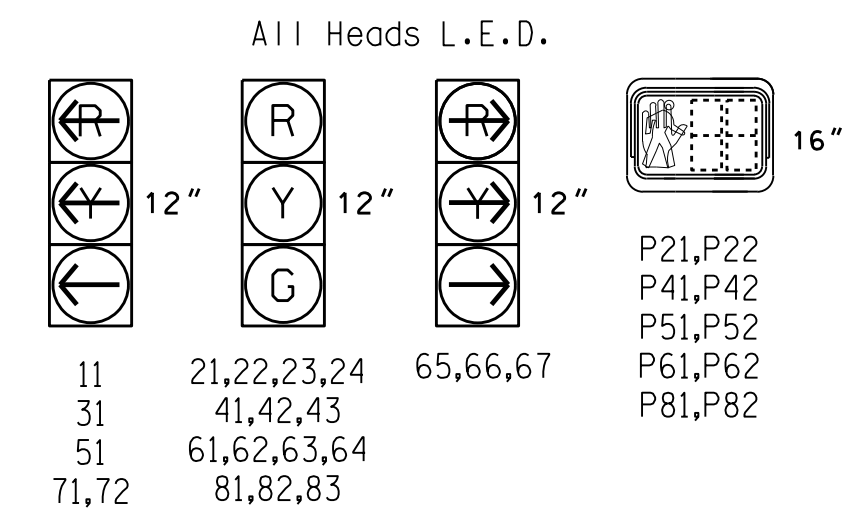


TABLE OF OPERATION

SIGNAL FACE	PHASE								FLASH
	01+5	02+6	03+7	04+8	01+6	02+5	03+8	04+7	
11	---	---	---	---	---	---	---	---	---
21,22,23,24	R	R	G	G	R	R	R	R	Y
31	---	---	---	---	---	---	---	---	---
41,42,43	R	R	R	R	R	R	G	G	R
51	---	---	---	---	---	---	---	---	---
61,62,63,64	R	G	R	G	R	R	R	R	Y
65,66,67	---	---	---	---	---	---	---	---	---
71,72	---	---	---	---	---	---	---	---	---
81,82,83	R	R	R	R	R	G	R	G	R
P21,P22	DW	DW	W	W	DW	DW	DW	DRK	
P41,P42	DW	DW	DW	DW	DW	DW	W	DRK	
P51,P52	W	DW	W	DW	DW	W	DW	DRK	
P61,P62	DW	W	DW	DW	DW	DW	DW	DRK	
P81,P82	DW	DW	DW	DW	W	DW	W	DRK	

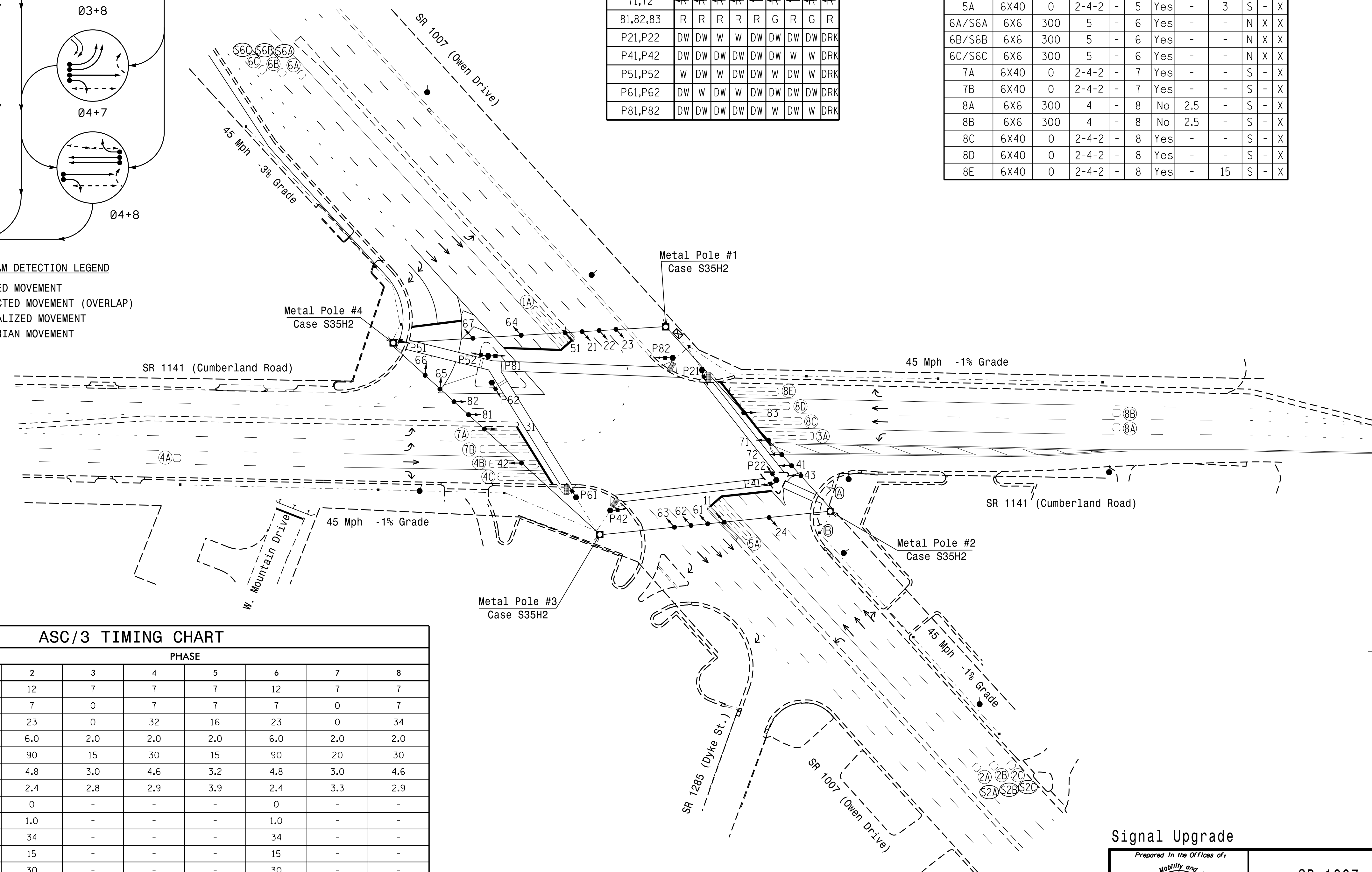
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING					TYPE	SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTEND TIME	DELAY TIME				
1A	6X40	0	2-4-2	-	1	Yes	-	-	-	S	-	X
2A/S2A	6X6	300	5	-	2	Yes	-	-	-	N	X	X
2B/S2B	6X6	300	5	-	2	Yes	-	-	-	N	X	X
2C/S2C	6X6	300	5	-	2	Yes	-	-	-	N	X	X
3A	6X40	0	2-4-2	-	3	Yes	-	-	-	S	-	X
4A	6X6	300	6	-	4	No	2.5	-	-	S	-	X
4B	6X40	0	2-4-2	-	4	Yes	-	-	-	S	-	X
4C	6X40	0	2-4-2	-	4	Yes	-	15	-	S	-	X
5A	6X40	0	2-4-2	-	5	Yes	-	-	3	S	-	X
6A/S6A	6X6	300	5	-	6	Yes	-	-	-	N	X	X
6B/S6B	6X6	300	5	-	6	Yes	-	-	-	N	X	X
6C/S6C	6X6	300	5	-	6	Yes	-	-	-	N	X	X
7A	6X40	0	2-4-2	-	7	Yes	-	-	-	S	-	X
7B	6X40	0	2-4-2	-	7	Yes	-	-	-	S	-	X
8A	6X6	300	4	-	8	No	2.5	-	-	S	-	X
8B	6X6	300	4	-	8	No	2.5	-	-	S	-	X
8C	6X40	0	2-4-2	-	8	Yes	-	-	-	S	-	X
8D	6X40	0	2-4-2	-	8	Yes	-	-	-	S	-	X
8E	6X40	0	2-4-2	-	8	Yes	-	15	-	S	-	X

8 Phase Fully Actuated Fayetteville Signal System

NOTES

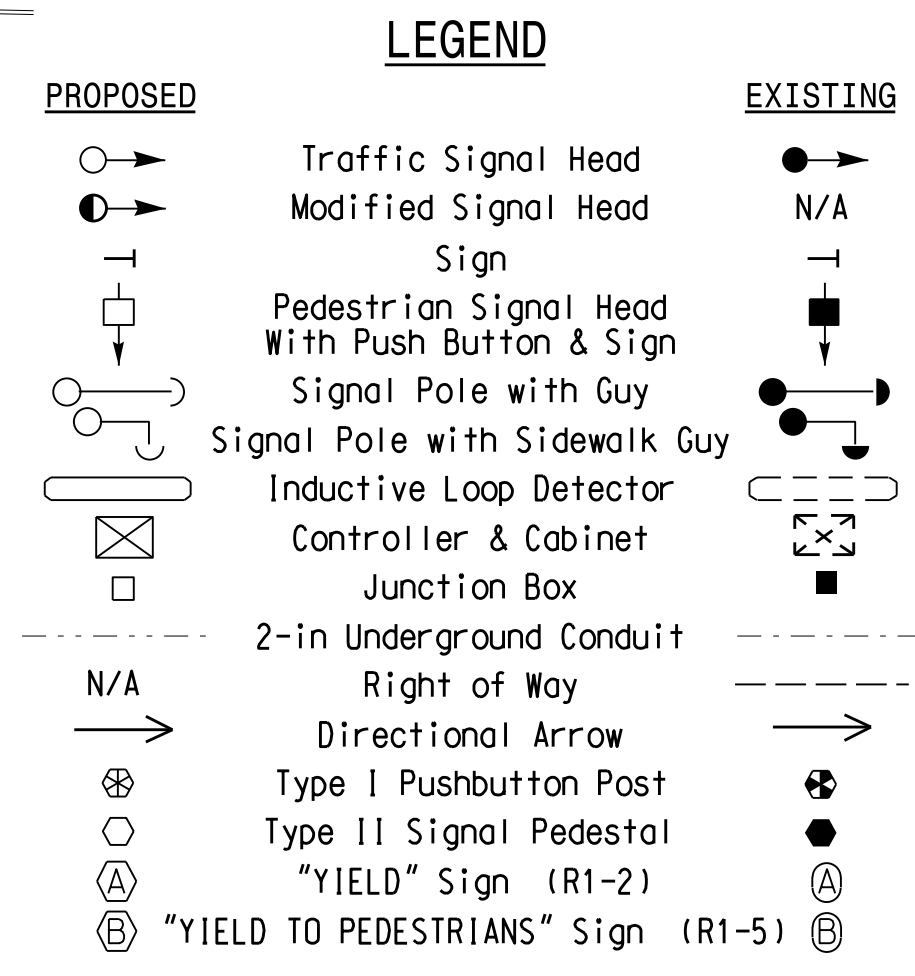
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	12	7	7	7	12	7	7
Walk *	0	7	0	7	7	7	0	7
Ped Clear	0	23	0	32	16	23	0	34
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max 1 *	15	90	15	30	15	90	20	30
Yellow	3.3	4.8	3.0	4.6	3.2	4.8	3.0	4.6
Red Clear	4.1	2.4	2.8	2.9	3.9	2.4	3.3	2.9
Actuations B4 Add *	-	0	-	-	-	0	-	-
Seconds / Actuation *	-	1.0	-	-	-	1.0	-	-
Max Initial *	-	34	-	-	-	34	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.0	-	-	-	3.0	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL	-	-
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X	X	X	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.



Signal Upgrade

Prepared In the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SR 1007 (Owen Drive) at SR 1141 (Cumberland Road) Fayetteville

Division 6 Cumberland County

PLAN DATE: May 2016 REVIEWED BY: JPG

PREPARED BY: Jeff Spence REVIEWED BY:

REVISIONS: _____ INIT. DATE

SCALE: 1"=50'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: JASON P. GALLAGHER, PROFESSIONAL ENGINEER, No. 029904

9/2/2016

SIG. INVENTORY NO. 06-0212

09-2659-2016_06:17
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 J. Spence