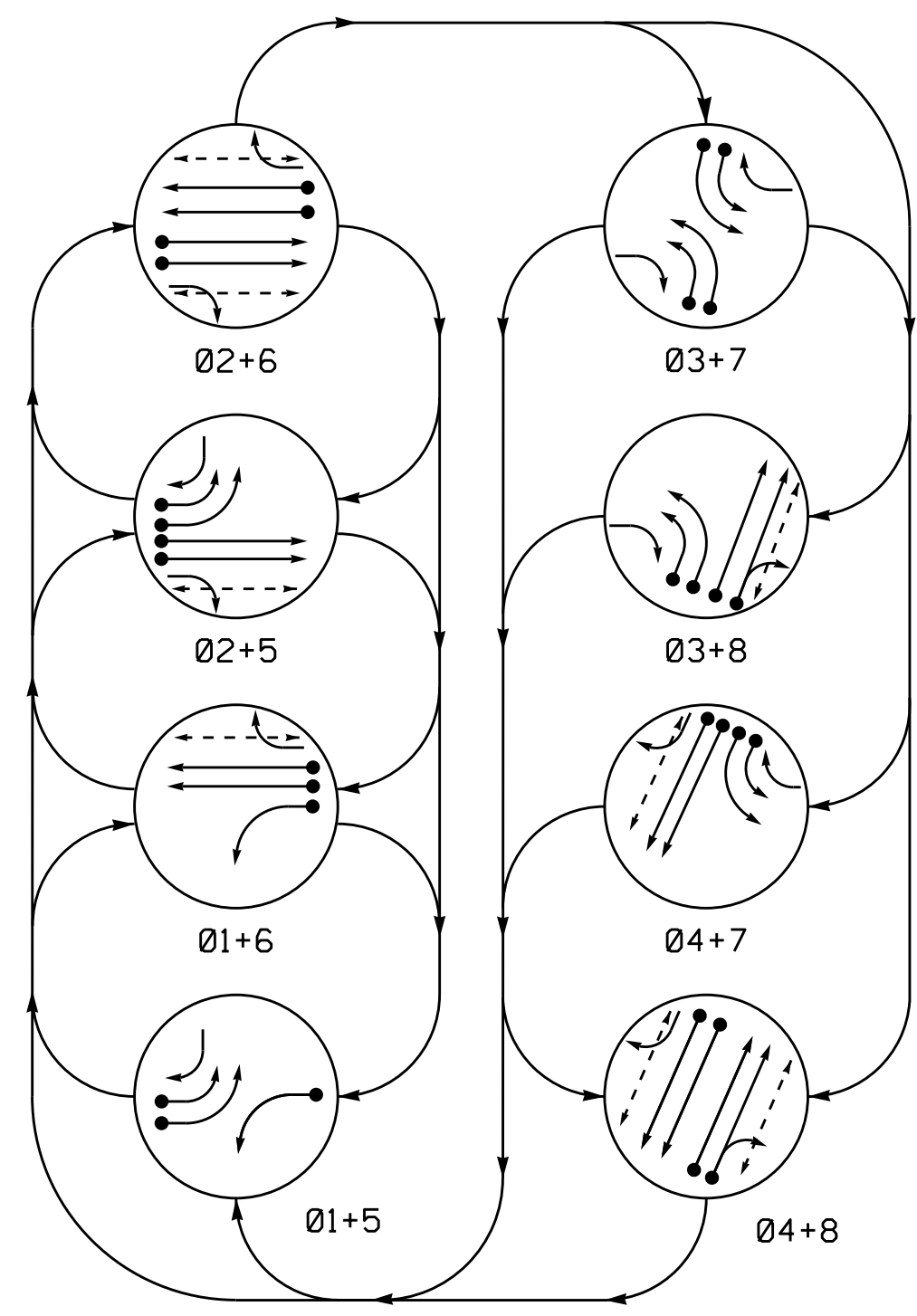


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

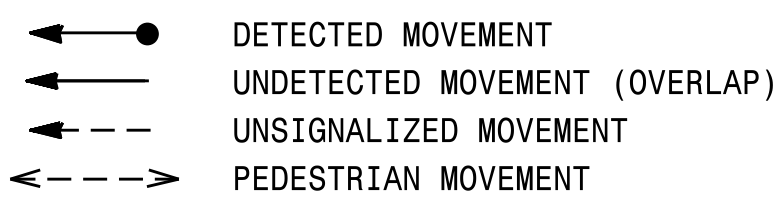
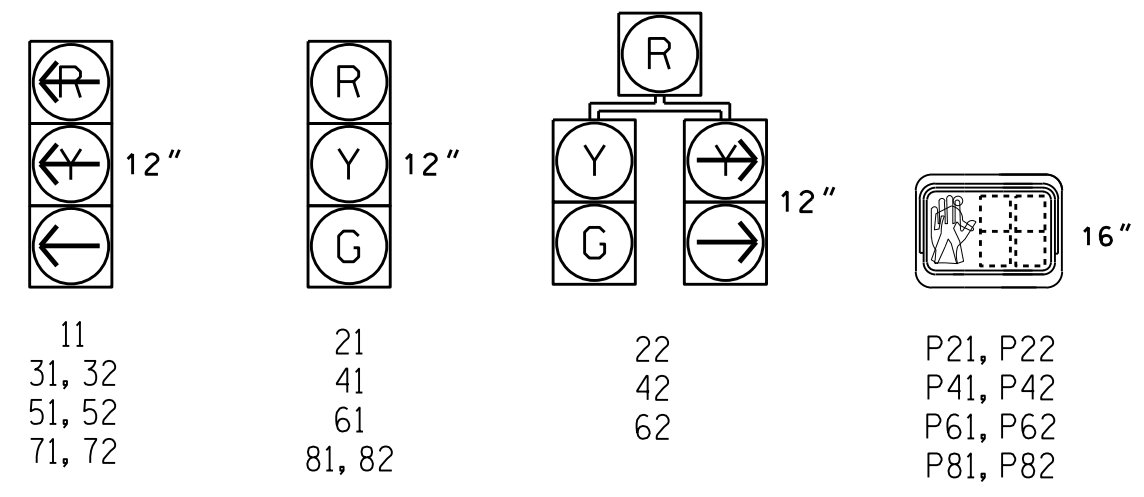


TABLE OF OPERATION

SIGNAL FACE	PHASE								FLASH
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	
11	---	---	---	---	---	---	---	---	---
21	R	R	G	G	R	R	R	R	Y
22	R	R	G	G	R	R	R	R	Y
31,32	---	---	---	---	---	---	---	---	---
41	R	R	R	R	R	R	G	G	R
42	R	R	R	R	R	R	G	G	R
51,52	---	---	---	---	---	---	---	---	---
61	R	G	R	G	R	R	R	R	Y
62	R	G	R	G	R	R	R	R	Y
71,72	---	---	---	---	---	---	---	---	---
81,82	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	
P61,P62	DW	W	DW	W	DW	DW	DW	DRK	
P81,P82	DW	DW	DW	DW	W	DW	W	DRK	

SIGNAL FACE I.D.

All Heads L.E.D.



ASC/3 DETECTOR INSTALLATION CHART

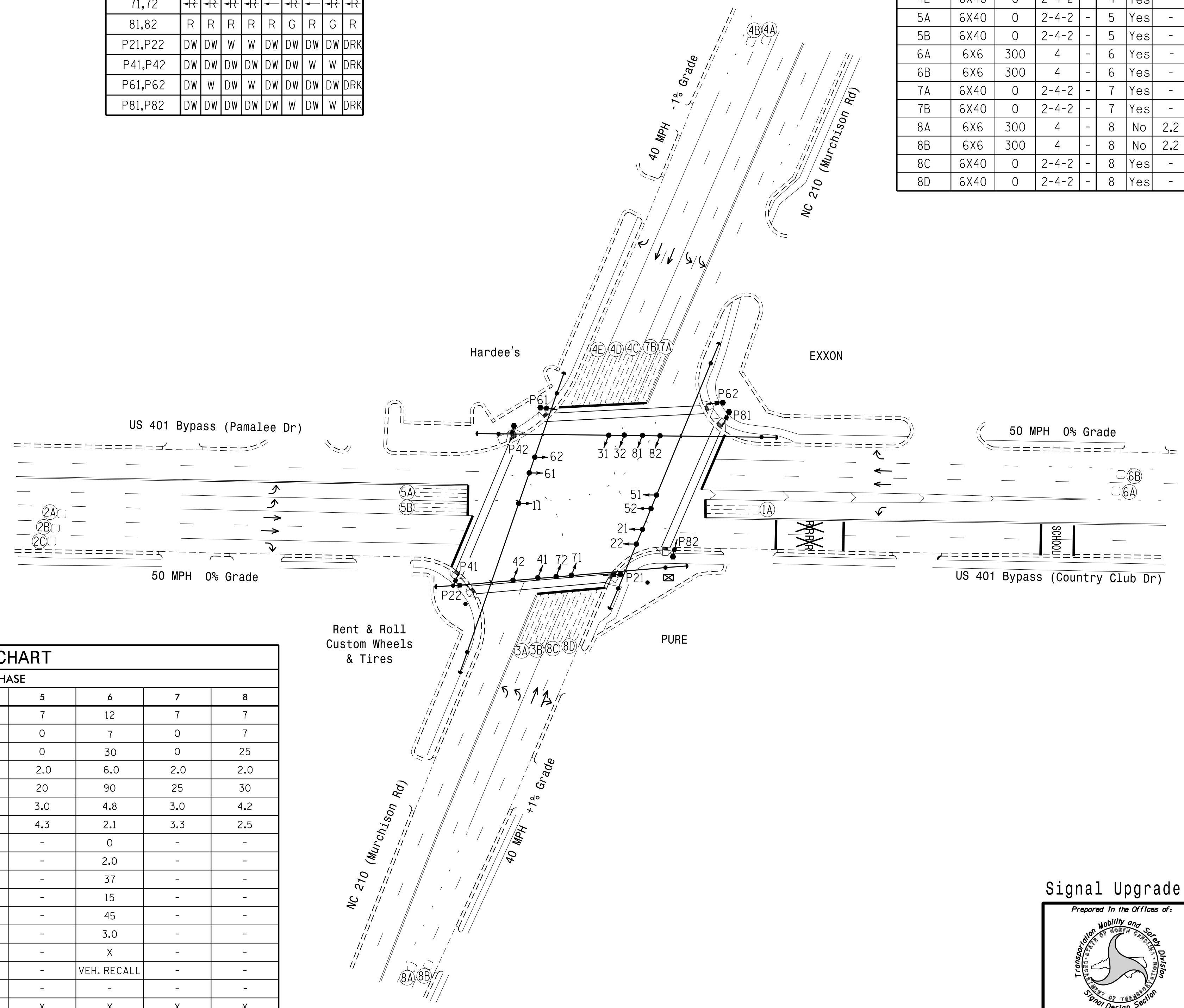
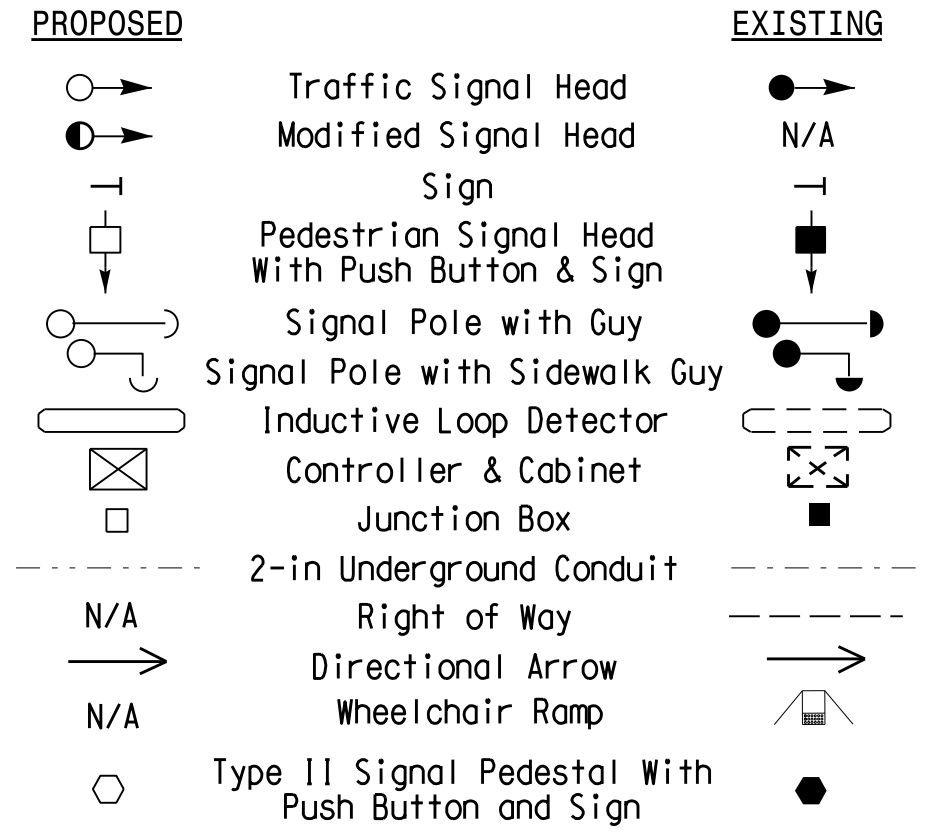
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING		TYPE	SYSTEM LOOP	NEW CARD		
					PHASE	CALLING					
1A	6X40	0	2-4-2	-	1	Yes	-	S	-	X	
2A	6X6	300	4	-	2	Yes	-	N	-	X	
2B	6X6	300	4	-	2	Yes	-	N	-	X	
2C	6X6	300	4	-	2	Yes	-	N	-	X	
3A	6X40	0	2-4-2	-	3	Yes	-	S	-	X	
3B	6X40	0	2-4-2	-	3	Yes	-	S	-	X	
4A	6X6	290	4	-	4	No	2.7	-	N	-	X
4B	6X6	290	4	-	4	No	2.7	-	N	-	X
4C	6X40	0	2-4-2	-	4	Yes	-	S	-	X	
4D	6X40	0	2-4-2	-	4	Yes	-	S	-	X	
4E	6X40	0	2-4-2	-	4	Yes	-	S	-	X	
5A	6X40	0	2-4-2	-	5	Yes	-	S	-	X	
5B	6X40	0	2-4-2	-	5	Yes	-	S	-	X	
6A	6X6	300	4	-	6	Yes	-	N	-	X	
6B	6X6	300	4	-	6	Yes	-	N	-	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	2.2	-	N	-	X
8B	6X6	300	4	-	8	No	2.2	-	N	-	X
8C	6X40	0	2-4-2	-	8	Yes	-	S	-	X	
8D	6X40	0	2-4-2	-	8	Yes	-	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.
- 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.
- 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.

LEGEND



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	0	7	0	7
Ped Clear	0	26	0	28	0	30	0	25
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0
Max 1 *	20	90	25	30	20	90	25	30
Yellow	3.0	4.8	3.0	4.2	3.0	4.8	3.0	4.2
Red Clear	3.8	2.1	3.3	2.5	4.3	2.1	3.3	2.5
Actuations B4 Add *	-	0	-	-	-	0	-	-
Seconds / Actuation *	-	2.0	-	-	-	2.0	-	-
Max Initial *	-	37	-	-	-	37	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	45	-	-	-	45	-	-
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

US 401 Bypass (Pamalee Dr/Country Club Dr) at NC 210 (Murchison Rd)

Division 06 Cumberland County Fayetteville
 PLAN DATE: October 2015 REVIEWED BY: JPG
 PREPARED BY: KGP, Jr. REVIEWED BY:

SEAL
 JASON P. GALLAGHER
 ENGINEER
 029904

DocuSigned by:
 Jason P. Gallaghy 5/11/2016

SCALE 0 50
 1"=50'

REVISIONS INIT. DATE

SIG. INVENTORY NO. 06-0056

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

04-001-2016-1610
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