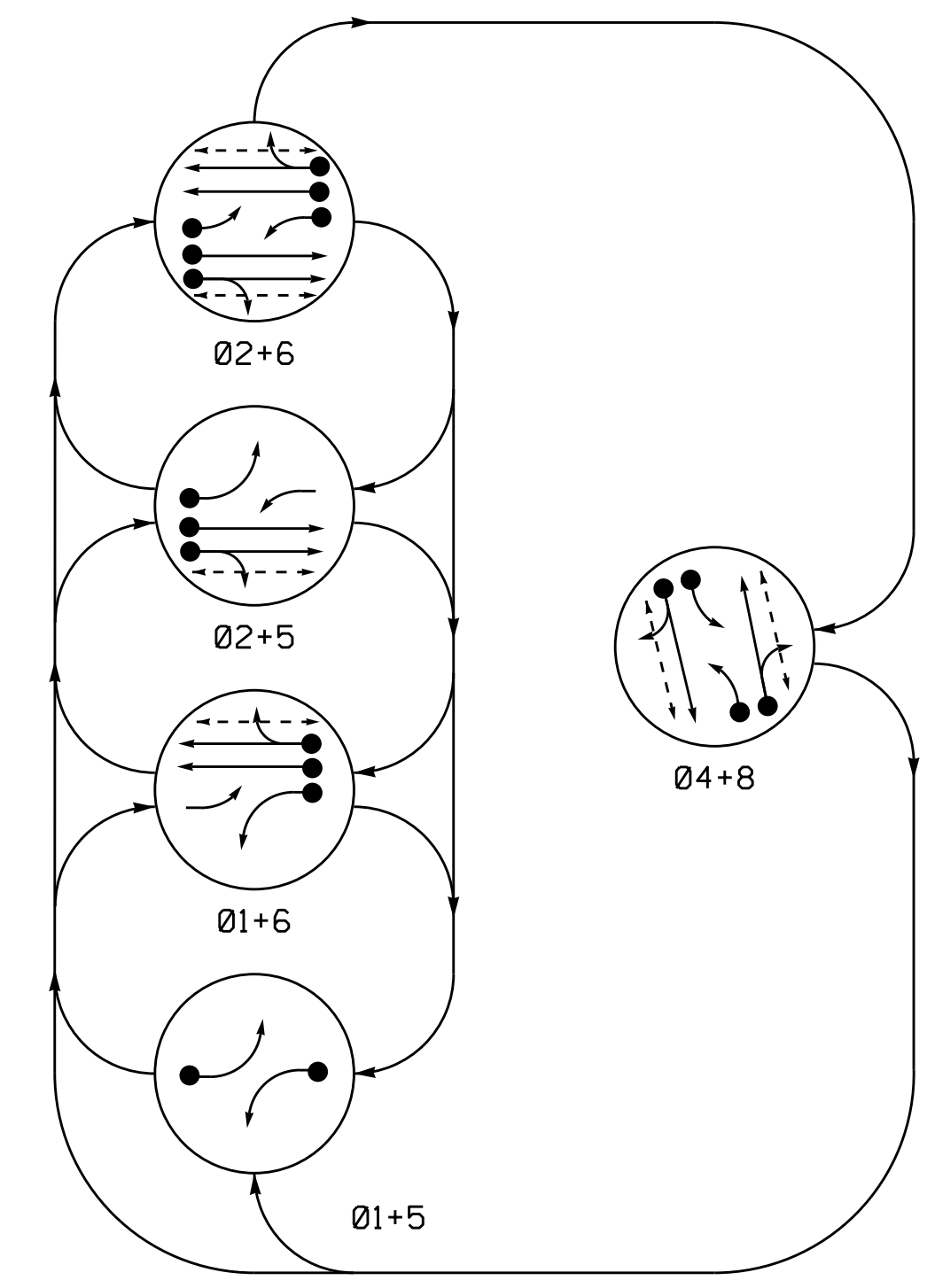


5 Phase Fully Actuated Fayetteville Signal System

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.
- 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.

PHASING DIAGRAM



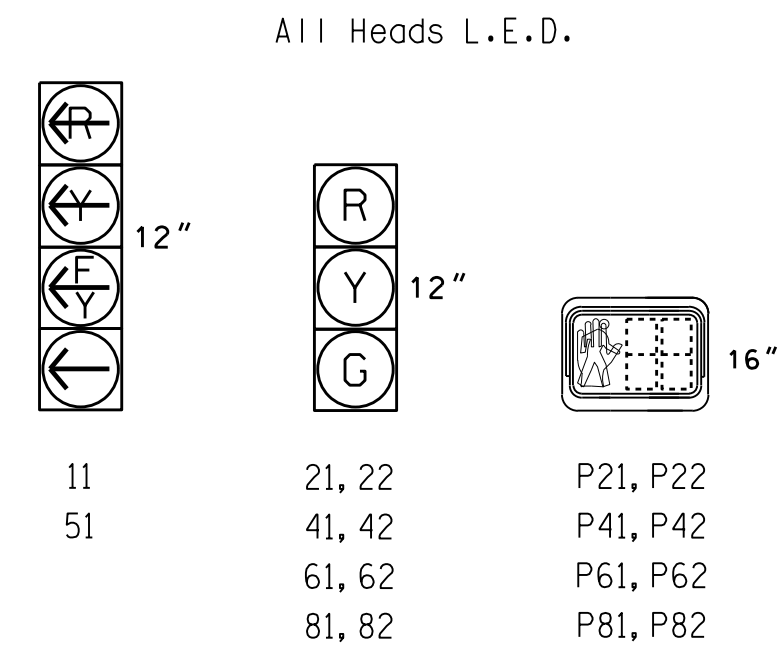
PHASING DIAGRAM DETECTION LEGEND

- ← DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- ← UNSIGNALIZED MOVEMENT
- ← PEDESTRIAN MOVEMENT

TABLE OF OPERATION

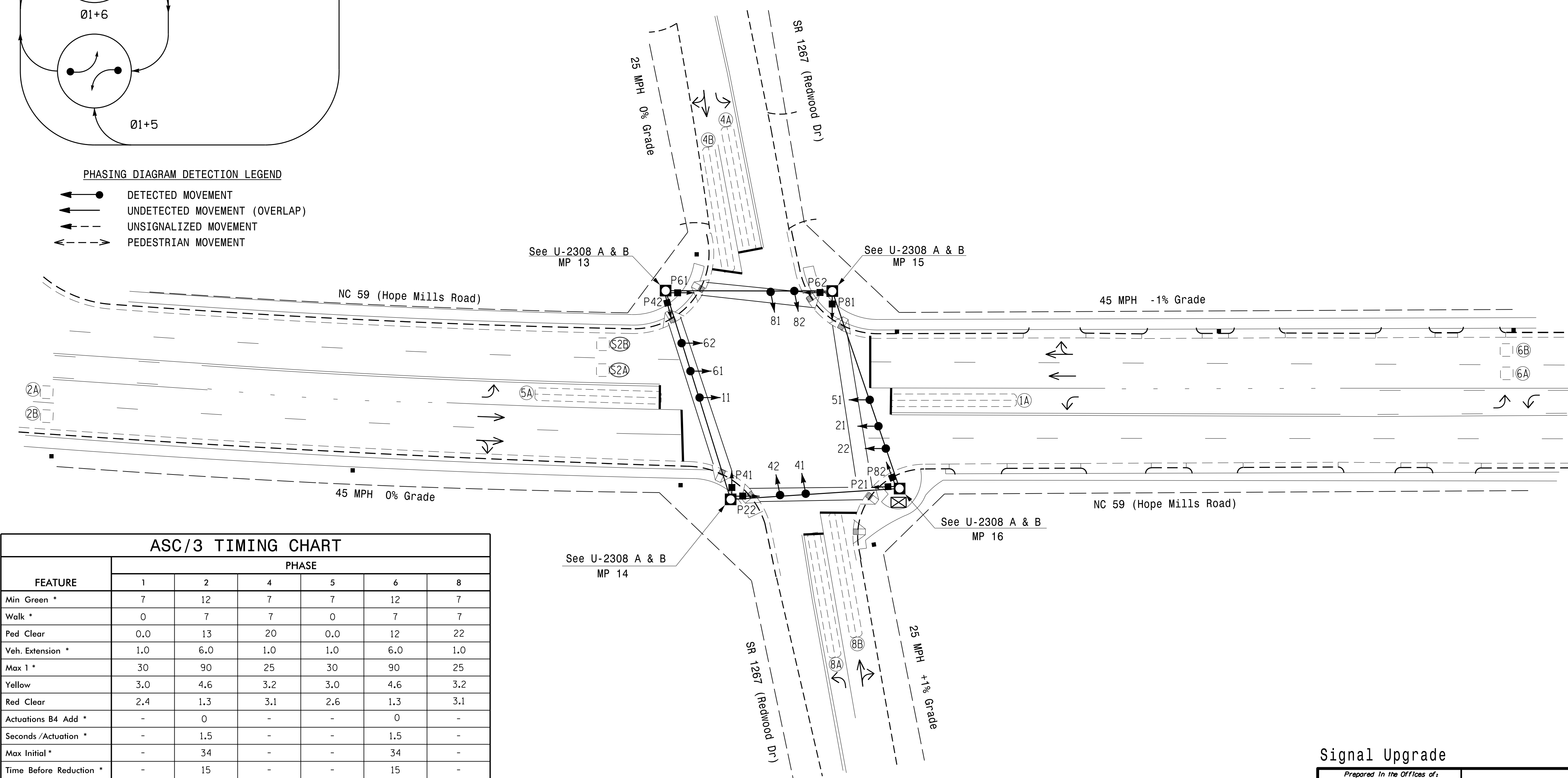
SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	PEDESTRIAN
11	---	---	---	---	---	---
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
51	---	---	---	---	---	---
61,62	R	G	R	G	R	Y
81,82	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

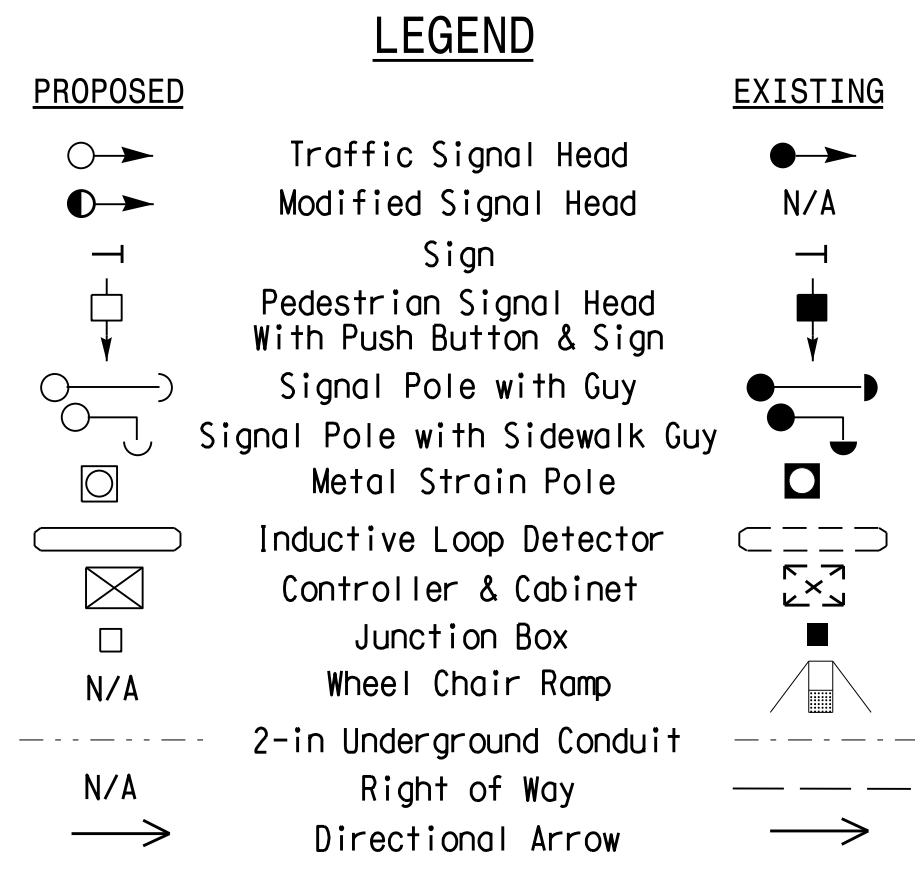
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	LOOP SYSTEM NEW CARD	
1A	6X60	0	2-4-2	-	1	Yes	-	10	S	-	X
2A	6X6	300	6	-	2	Yes	-	3	G	-	X
2B	6X6	300	6	-	2	Yes	-	-	N	-	X
4A	6X60	0	2-4-2	-	4	Yes	-	3	S	-	X
4B	6X60	0	2-4-2	-	4	Yes	-	15	S	-	X
5A	6X60	0	2-4-2	-	5	Yes	-	10	S	-	X
6A	6X6	300	6	-	2	Yes	-	3	G	-	X
6B	6X6	300	6	-	6	Yes	-	-	N	-	X
8A	6X60	0	2-4-2	-	8	Yes	-	3	S	-	X
8B	6X60	0	2-4-2	-	8	Yes	-	15	S	-	X
S2A	6X6	+130	4	-	-	No	-	-	N	X	X
S2B	6X6	+130	4	-	-	No	-	-	N	X	X



ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Walk *	0	7	7	0	7	7
Ped Clear	0.0	13	20	0.0	12	22
Veh. Extension *	1.0	6.0	1.0	1.0	6.0	1.0
Max 1 *	30	90	25	30	90	25
Yellow	3.0	4.6	3.2	3.0	4.6	3.2
Red Clear	2.4	1.3	3.1	2.6	1.3	3.1
Actuations B4 Add *	-	0	-	-	0	-
Seconds / Actuation *	-	1.5	-	-	1.5	-
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	-	-	X	-	-	X
Simultaneous Gap	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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

750 N. Greenfield Pkwy, Garner, NC 27529

NC 59 (Hope Mills Rd) at SR 1267 (Redwood Drive)

Division 6 Cumberland County Hope Mills

PLAN DATE: June 2016 REVIEWED BY: JPG, PE

PREPARED BY: EM Minshew REVIEWED BY:

Jason P. Gallaway 7/6/2016

SIG. INVENTORY NO. 06-0337

SCALE 1"=30'

C:\Users\jgallaway\Documents\Signal Design\Section\Eastern Region\01\U-5742 Fayetteville ASC\3\06-0337\060337_sigs.dsn_2016mmds.dgn
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 JGALLAWAY