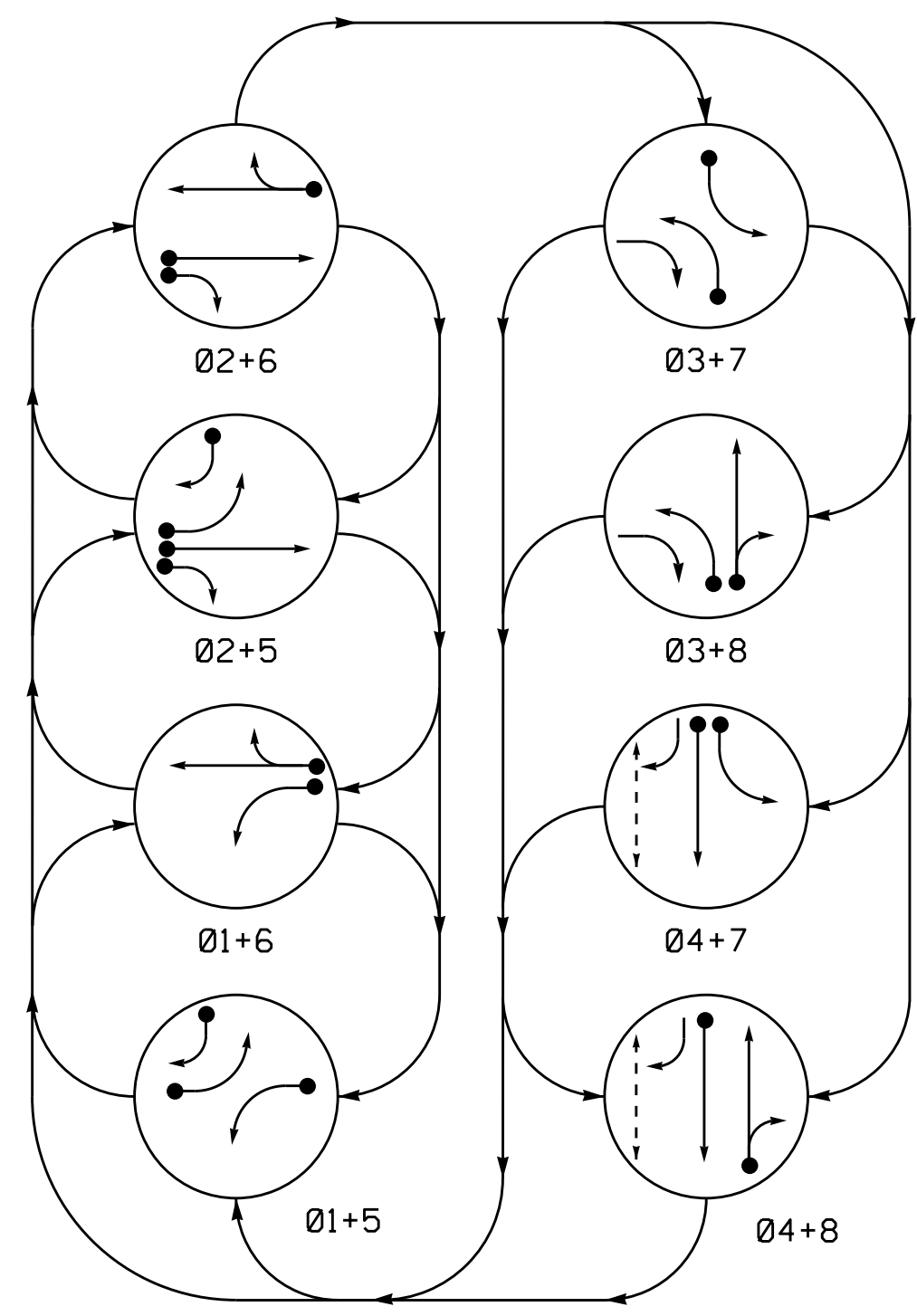


8 Phase Fully Actuated Fayetteville Signal System

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.

PHASING DIAGRAM



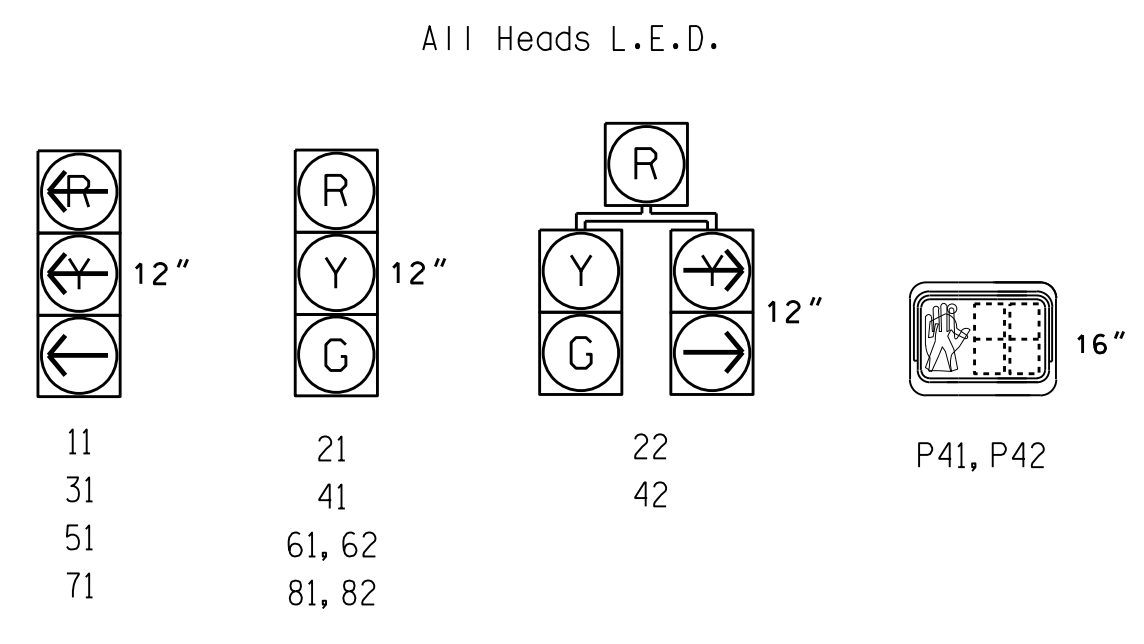
PHASING DIAGRAM DETECTION LEGEND

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

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	---	---	---	---	---	---	---	---	---
41	R	R	R	R	R	R	G	G	R
42	R	R	R	R	R	R	G	G	R
51	---	---	---	---	---	---	---	---	---
61,62	R	G	R	G	R	R	R	R	Y
71	---	---	---	---	---	---	---	---	---
81,82	R	R	R	R	R	G	R	G	R
P41,P42	DW	DW	DW	DW	DW	DW	W	W	DRK

SIGNAL FACE I.D.



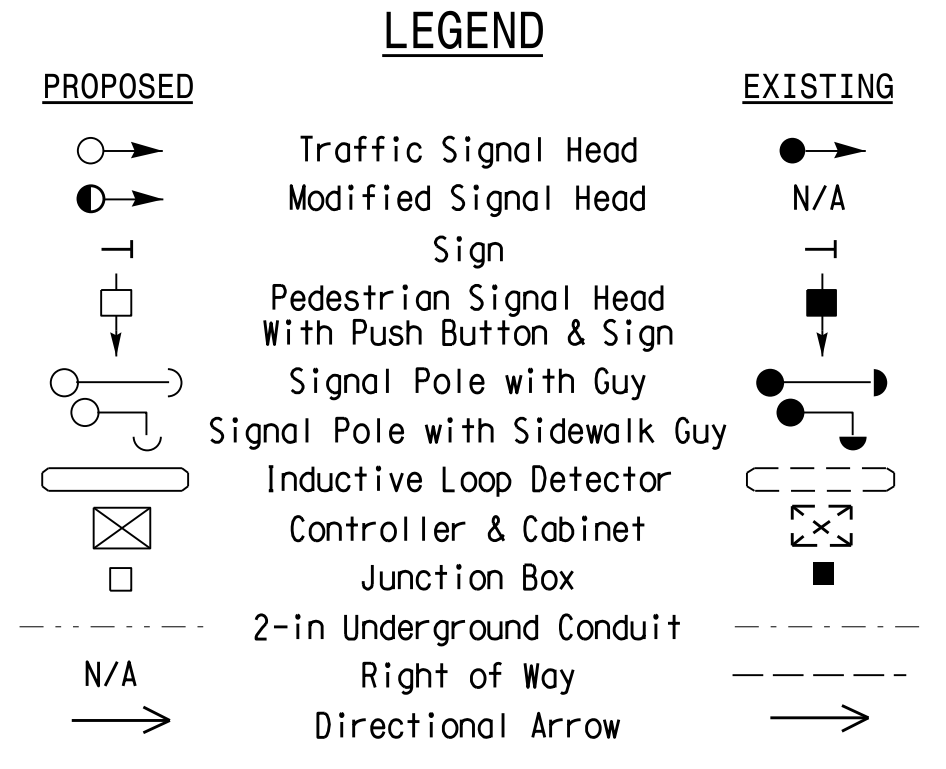
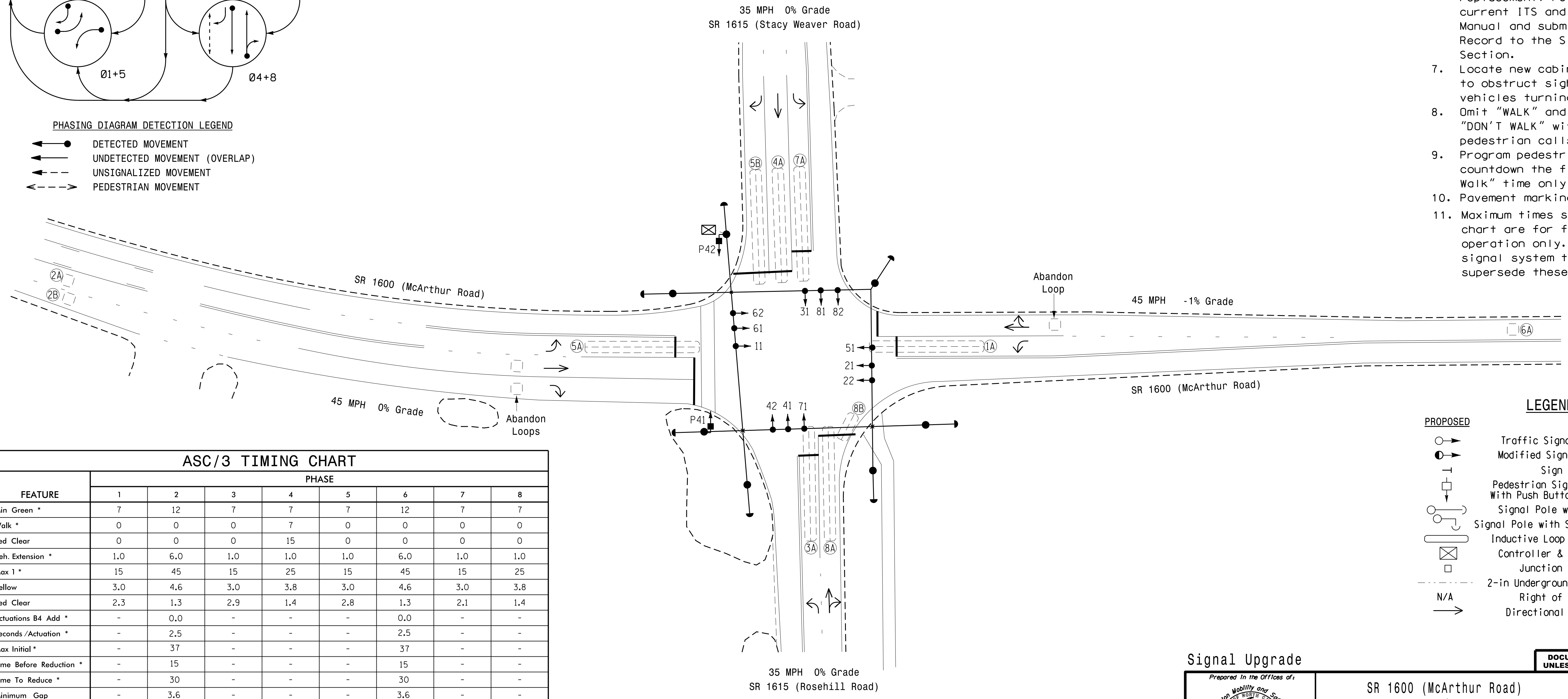
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING				TYPE	SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTEND TIME	DELAY TIME			
1A	6X60	+15	2-4-2	-	1	Yes	-	-	S	-	X
2A	6X6	330	4	-	2	Yes	-	-	N	-	X
2B	6X6	330	4	-	2	Yes	-	-	N	-	X
3A	6X60	+15	2-4-2	-	3	Yes	-	-	S	-	X
4A	6X60	+5	2-4-2	-	4	Yes	-	-	S	-	X
5A	6X60	+15	2-4-2	-	5	Yes	-	-	S	-	X
5B	6X60	+5	2-4-2	-	4	Yes	-	15	S	-	X
6A	6X6	330	4	-	6	Yes	-	-	N	-	X
7A	6X60	+15	2-4-2	-	7	Yes	-	-	S	-	X
8A	6X60	+5	2-4-2	-	8	Yes	-	10	S	-	X
8B	6X15	+5	2-4-2	-	8	Yes	-	10	S	-	X

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	0	0	7	0	0	0	0
Ped Clear	0	0	0	15	0	0	0	0
Veh. Extension *	1.0	6.0	1.0	1.0	1.0	6.0	1.0	1.0
Max I *	15	45	15	25	15	45	15	25
Yellow	3.0	4.6	3.0	3.8	3.0	4.6	3.0	3.8
Red Clear	2.3	1.3	2.9	1.4	2.8	1.3	2.1	1.4
Actuations B4 Add *	-	0.0	-	-	-	0.0	-	-
Seconds / Actuation *	-	2.5	-	-	-	2.5	-	-
Max Initial *	-	37	-	-	-	37	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.6	-	-	-	3.6	-	-
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 1600 (McArthur Road) at SR 1615 (Rosehill Rd/Stacy Weaver Rd)

Division 06 Cumberland County Fayetteville

PLAN DATE: April 2016 REVIEWED BY: JPG, PE

PREPARED BY: EM Minshew REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1"=30'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

DocuSigned by: Jason P. Gallagher 8/23/2016

SIG. INVENTORY NO. 06-0341

23-AUG-2016 15:16
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