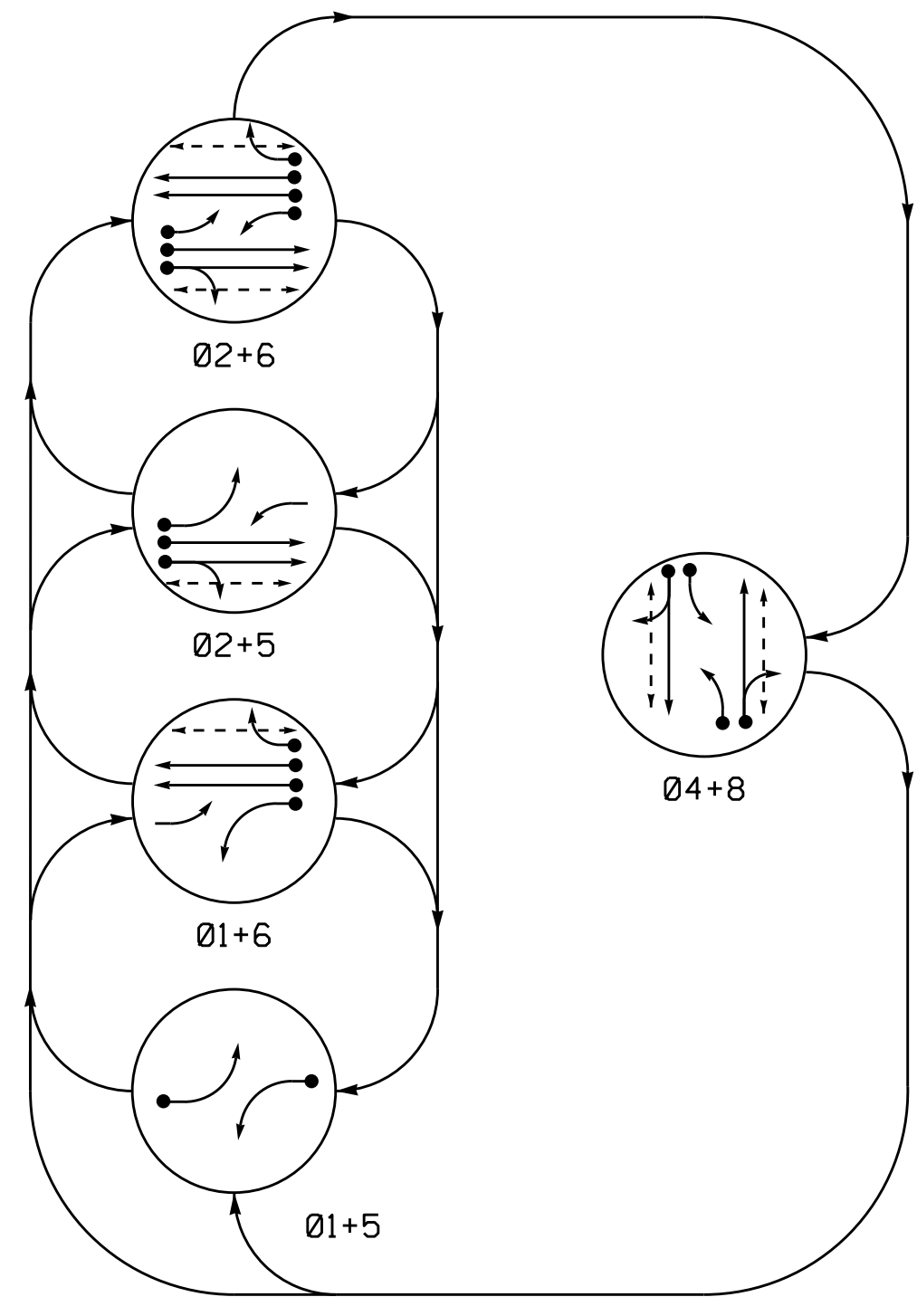


5 Phase Fully Actuated Fayetteville Signal System

NOTES

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

PHASING DIAGRAM



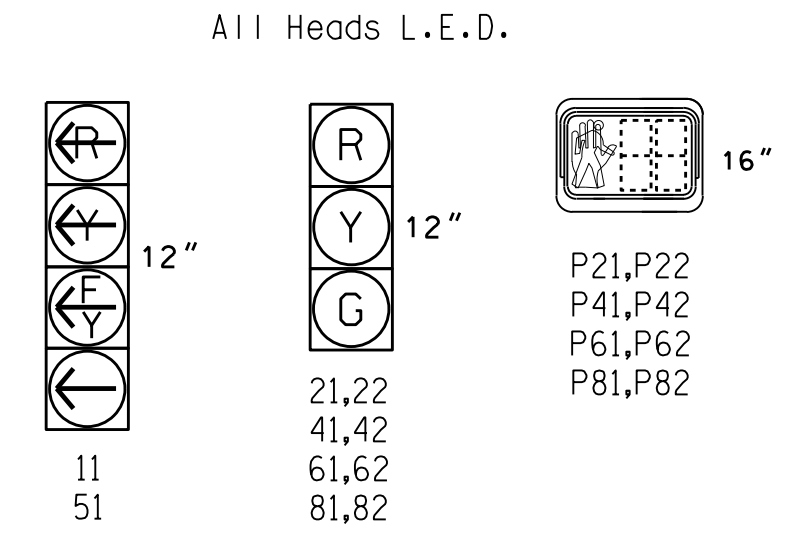
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

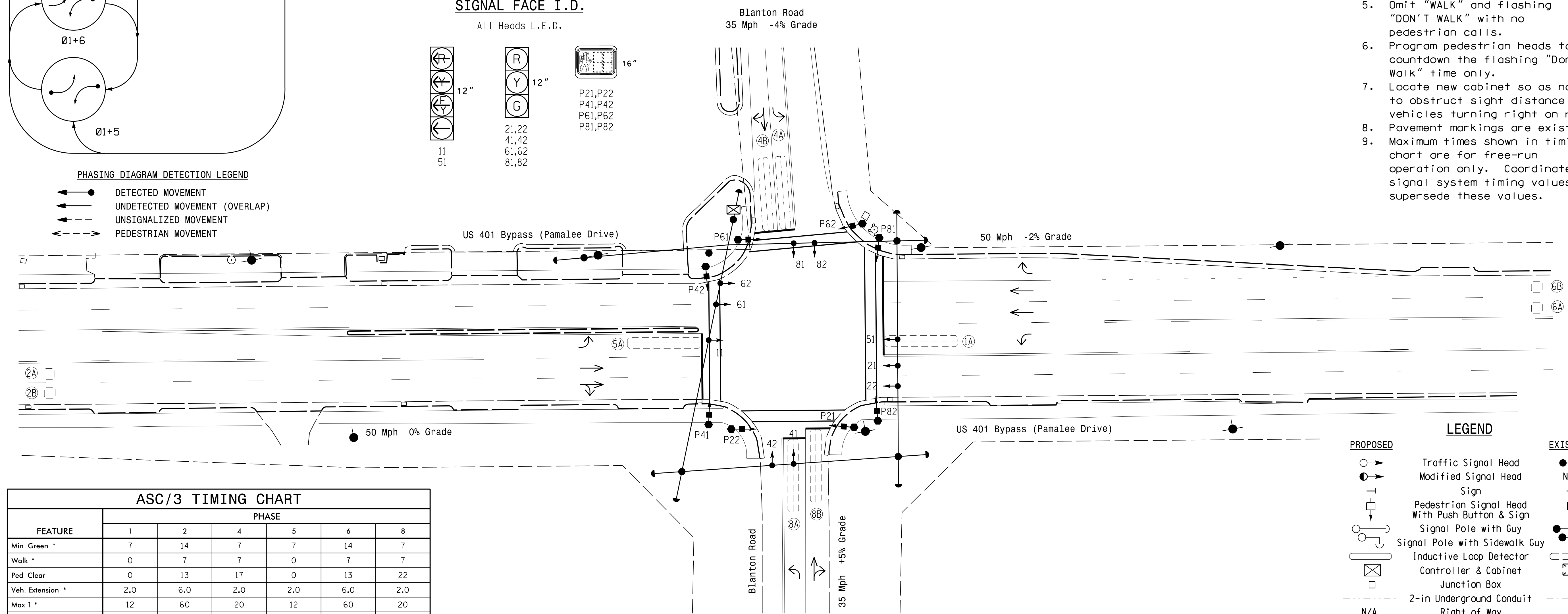
SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FL
11	←	←	←	←	←	←
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	Y
81,82	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART

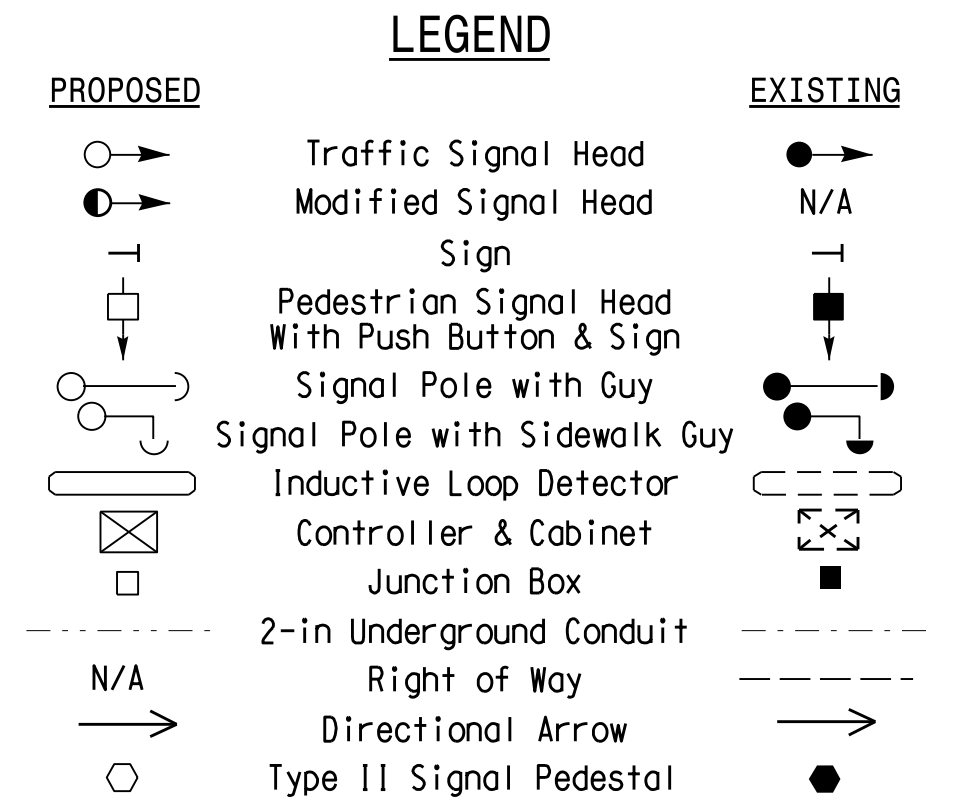
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP NEW CARD	
1A	6X40	0	2-4-2	-	1	Yes	-	15	S	-	X
					6	Yes	-	3	G	-	X
2A	6X6	355	6	-	2	Yes	-	-	N	-	X
					2B	Yes	-	-	N	-	X
4A	6X40	0	2-4-2	-	4	Yes	-	3	S	-	X
					4B	Yes	-	3	S	-	X
5A	6X40	0	2-4-2	-	5	Yes	-	15	S	-	X
					2	Yes	-	3	G	-	X
6A	6X6	355	6	-	6	Yes	-	-	N	-	X
					6B	Yes	-	-	N	-	X
8A	6X40	0	2-4-2	-	8	Yes	-	3	S	-	X
					8B	Yes	-	3	S	-	X



ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	14	7	7	14	7
Walk *	0	7	7	0	7	7
Ped Clear	0	13	17	0	13	22
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0
Max I *	12	60	20	12	60	20
Yellow	3.0	5.0	4.1	3.0	5.0	4.1
Red Clear	2.3	1.0	1.9	2.3	1.0	1.9
Actuations B4 Add *	-	0	-	-	0	-
Seconds / Actuation *	-	1.5	-	-	1.5	-
Max Initial *	-	40	-	-	40	-
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

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 401 Bypass (Pamalee Drive) at Blanton Road

Division 6 Cumberland County Fayetteville

PLAN DATE: April 2016 REVIEWED BY: JPG

PREPARED BY: JRS/JPG REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1"=30'

DATE: 6/2/2016

SIG. INVENTORY NO. 06-0751

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER JASON P. GALLOWAY 029904

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