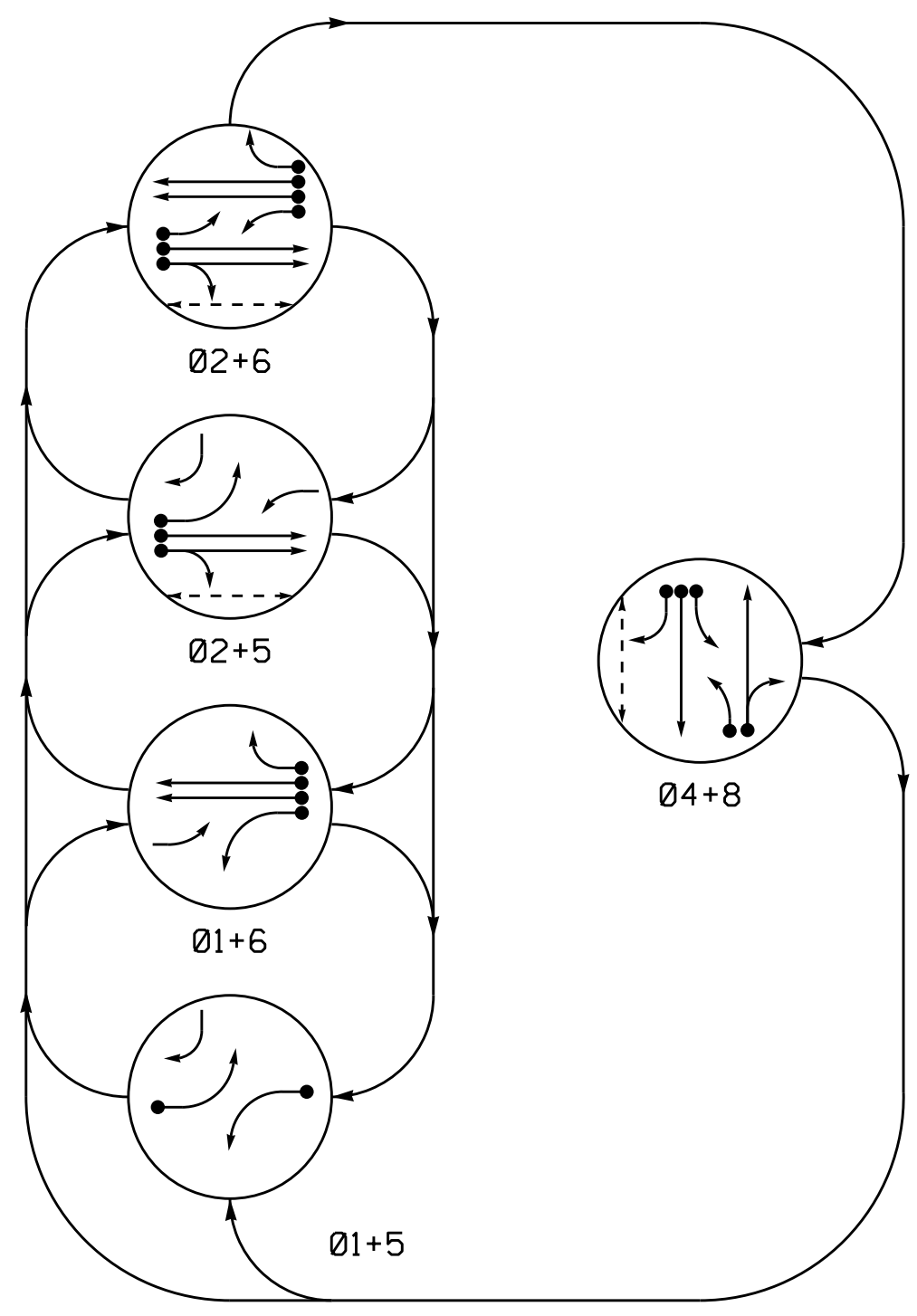


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

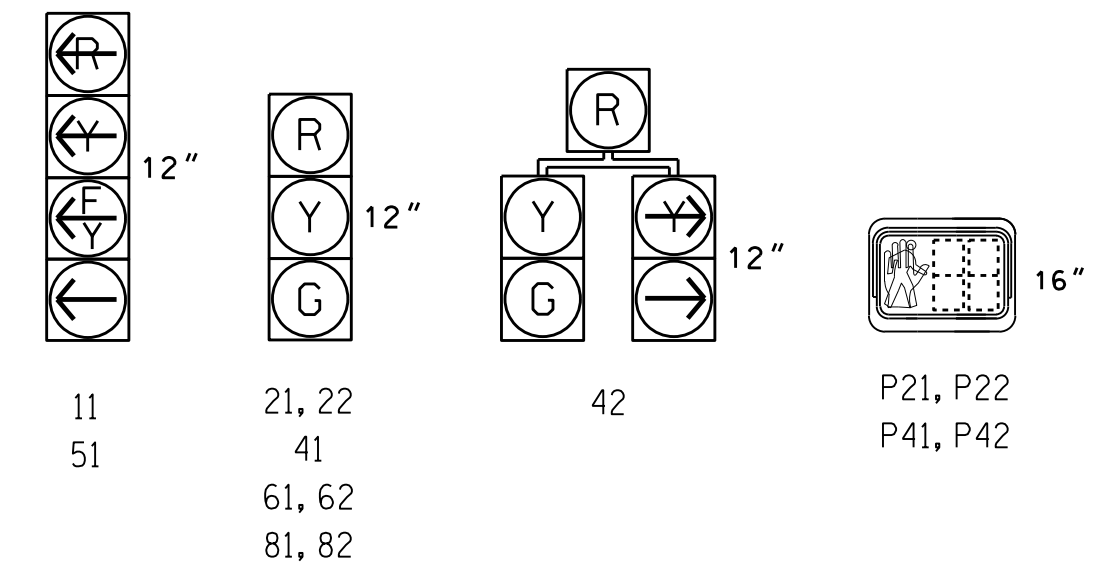
- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←- - -→ UNSIGNALIZED MOVEMENT
- ←- - -> PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	F L S H
11	←	←	←	←	←	←
21,22	R	R	G	G	R	Y
41	R	R	R	R	G	R
42	←	←	←	←	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

SIGNAL FACE I.D.

All Heads L.E.D.



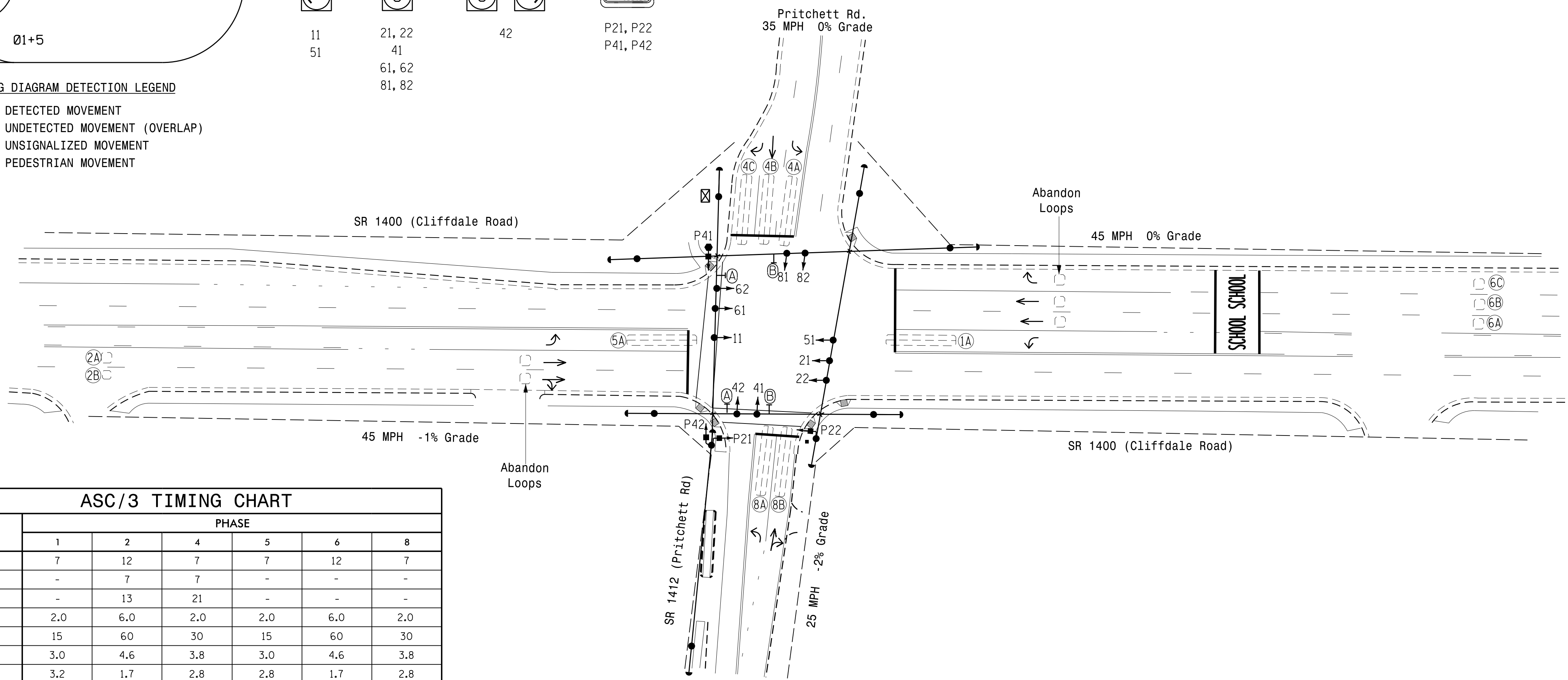
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	+5	2-4-2	-	1	Yes	-	15	S	-	X
2A,2B	6X6	330	2	-	2	Yes	-	-	N	-	X
4A	6X40	+5	2-4-2	-	4	Yes	-	3	S	-	X
4B	6X40	+5	2-4-2	-	4	Yes	-	-	S	-	X
4C	6X40	+5	2-4-2	-	4	Yes	-	15	S	-	X
5A	6X40	+5	1	-	5	Yes	-	15	S	-	X
6A,6B,6C	6X6	330	3	-	6	Yes	-	-	N	-	X
8A	6X40	+5	2-4-2	-	8	Yes	-	3	S	-	X
8B	6X40	+5	2-4-2	-	8	Yes	-	15	S	-	X

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. 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.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. Pavement markings are existing.
10. 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	4	5	6	8
Min Green *	7	12	7	7	12	7
Walk *	-	7	7	-	-	-
Ped Clear	-	13	21	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	6.0	2.0
Max 1 *	15	60	30	15	60	30
Yellow	3.0	4.6	3.8	3.0	4.6	3.8
Red Clear	3.2	1.7	2.8	2.8	1.7	2.8
Actuations B4 Add *	-	0	-	-	0	-
Seconds / Actuation *	-	2.0	-	-	2.0	-
Max Initial *	-	37	-	-	37	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.4	-	-	3.4	-
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.

LEGEND

- | | | | |
|--|--|--|------------------------------|
| | Proposed Traffic Signal Head | | Existing Traffic Signal Head |
| | Proposed Modified Signal Head | | N/A |
| | Proposed Pedestrian Signal Head | | N/A |
| | Proposed Signal Pole with Guy | | |
| | Proposed Signal Pole with Sidewalk Guy | | |
| | Proposed Inductive Loop Detector | | |
| | Proposed Controller & Cabinet | | |
| | Proposed Junction Box | | |
| | Proposed 2-in Underground Conduit | | |
| | Proposed Right of Way | | |
| | Proposed Directional Arrow | | |
| | Proposed Type II Signal Pedestal | | |
| | Proposed Right Arrow "ONLY" Sign (R3-5R) | | |
| | Proposed Left Arrow "ONLY" Sign (R3-5L) | | |

Signal Upgrade

SR 1400 (Cliffdale Road) at SR 1412 (Pritchett Rd)

Division 6 Cumberland County Fayetteville

PLAN DATE: October 2015 REVIEWED BY: JPG

PREPARED BY: EM Minshew REVIEWED BY:

SEAL

Jason P. Callaway

5/31/2016

SIG. INVENTORY NO. 06-0741

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE 0 40

1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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