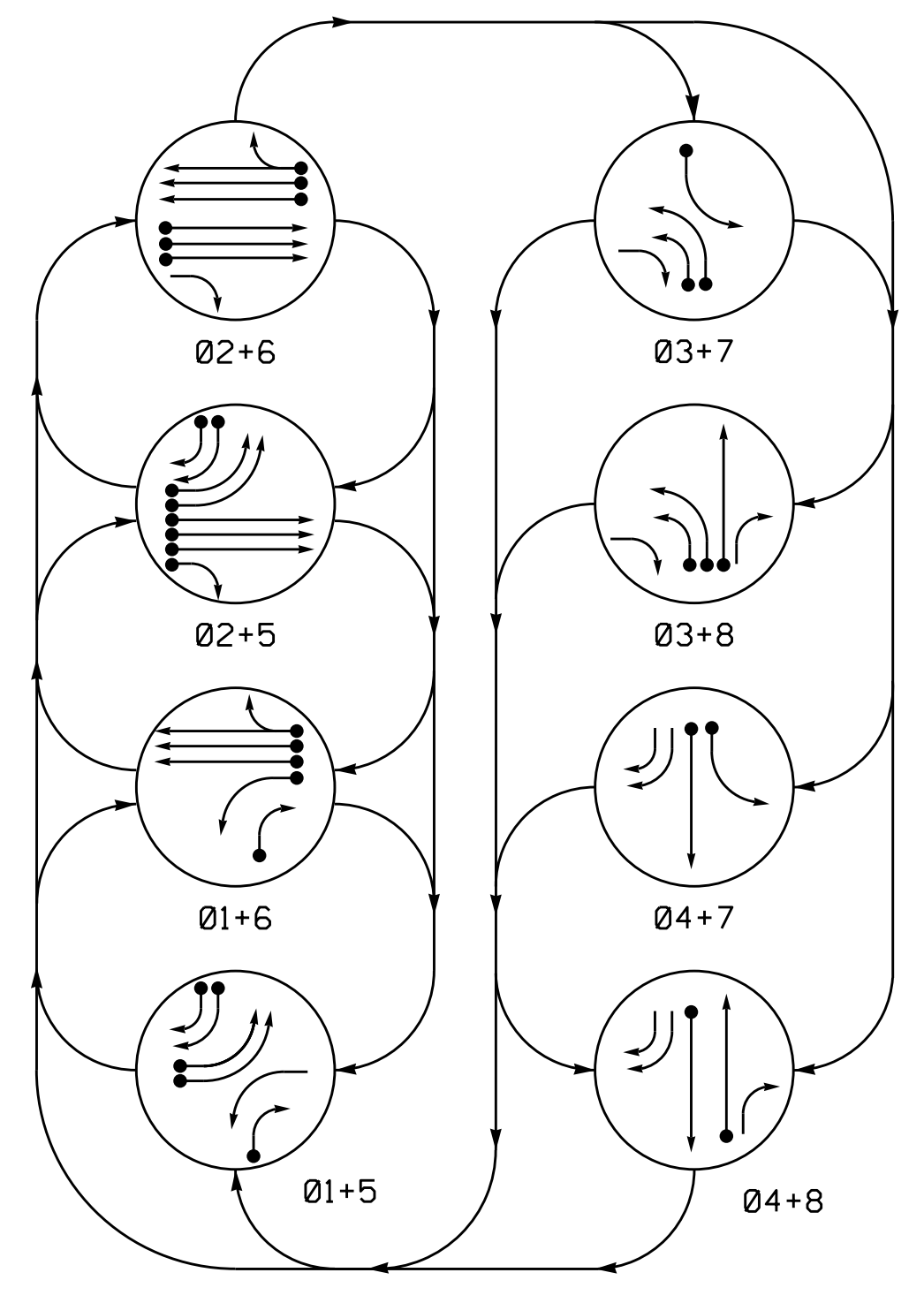


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

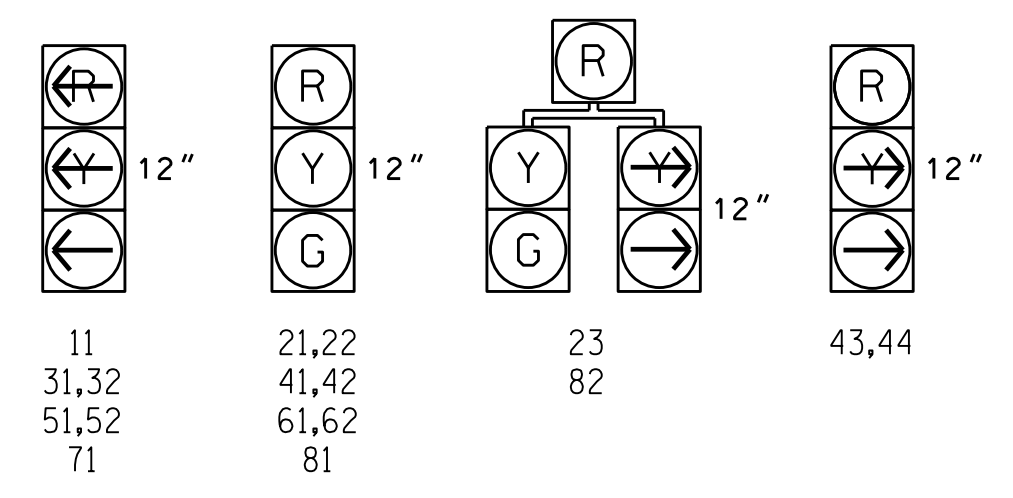
- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	02+5	03+5	03+7	03+8	04+7	04+8	F
11	---	---	---	---	---	---	---	---
21,22	R	R	G	R	R	R	R	Y
23	R	R	G	R	R	R	R	Y
31,32	---	---	---	---	---	---	---	---
41,42	R	R	R	R	R	G	G	R
43,44	---	---	---	---	---	---	---	---
51,52	---	---	---	---	---	---	---	---
61,62	R	G	R	G	R	R	R	Y
71	---	---	---	---	---	---	---	---
81	R	R	R	R	G	R	G	R
82	---	---	---	---	---	---	---	---

SIGNAL FACE I.D.

All Heads L.E.D.



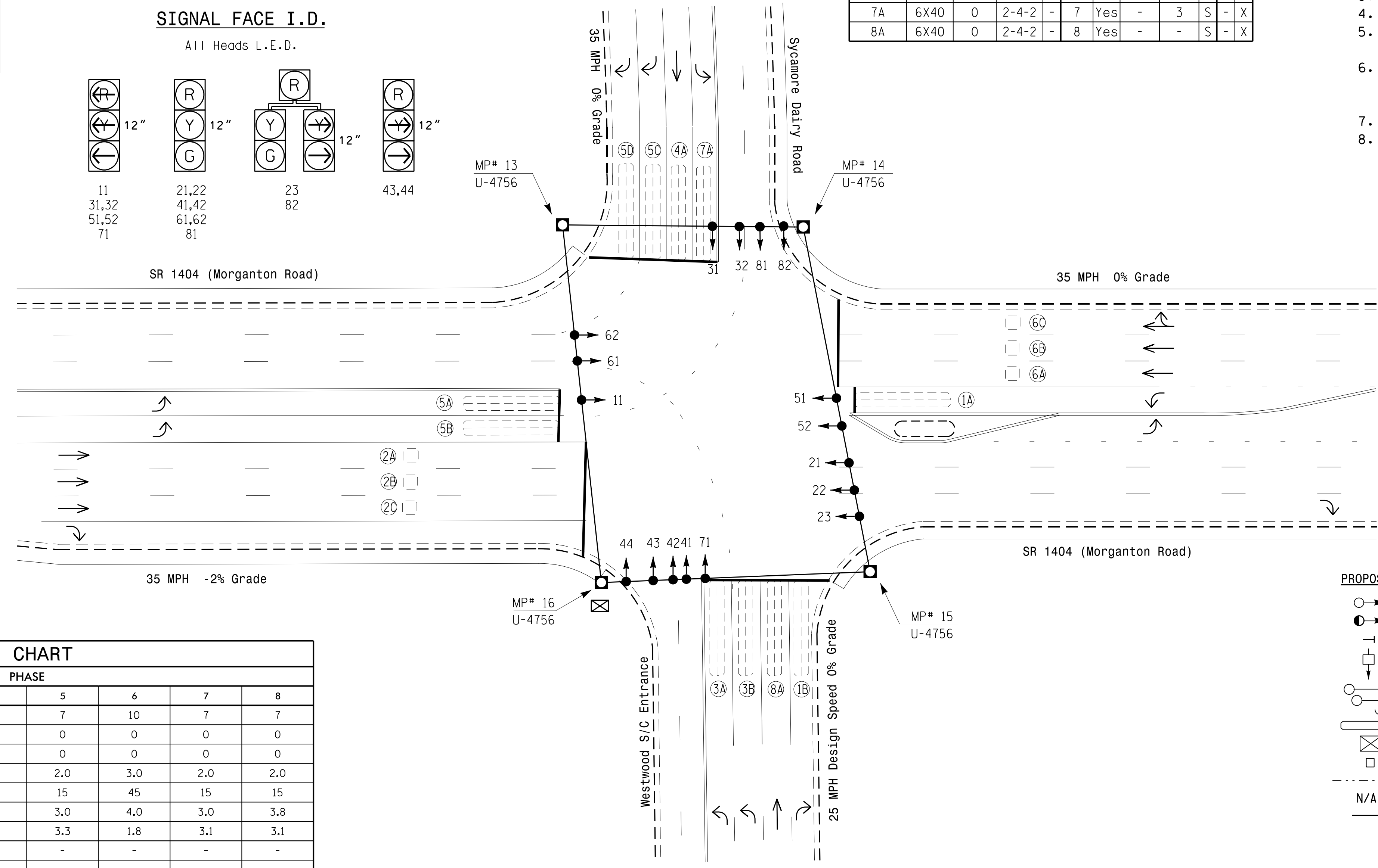
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING					SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE		
1A	6X40	0	2-4-2	-	1	Yes	-	-	S	-	X
1B	6X40	0	2-4-2	-	1	Yes	-	15	S	-	X
2A,2B,2C	6X6	70	3	-	2	Yes	-	-	S	-	X
3A	6X40	0	2-4-2	-	3	Yes	-	3	S	-	X
3B	6X40	0	2-4-2	-	3	Yes	-	-	S	-	X
4A	6X40	0	2-4-2	-	4	Yes	-	-	S	-	X
5A	6X40	0	2-4-2	-	5	Yes	-	3	S	-	X
5B	6X40	0	2-4-2	-	5	Yes	-	-	S	-	X
5C	6X40	0	2-4-2	-	5	Yes	-	15	S	-	X
5D	6X40	0	2-4-2	-	5	Yes	-	15	S	-	X
6A,6B,6C	6X6	70	5	-	6	Yes	-	-	S	-	X
7A	6X40	0	2-4-2	-	7	Yes	-	3	S	-	X
8A	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 or phase 5 may be lagged.
- Phase 3 or phase 7 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- 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	3	4	5	6	7	8
Min Green *	7	10	7	7	7	10	7	7
Walk *	0	0	0	0	0	0	0	0
Ped Clear	0	0	0	0	0	0	0	0
Veh. Extension *	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0
Max 1 *	15	45	15	15	15	45	15	15
Yellow	3.0	4.0	3.0	3.8	3.0	4.0	3.0	3.8
Red Clear	3.1	1.8	3.4	3.1	3.3	1.8	3.1	3.1
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds / Actuation *	-	-	-	-	-	-	-	-
Max Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
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.

LEGEND

PROPOSED	EXISTING
○→ Traffic Signal Head	●→ Traffic Signal Head
○→ Modified Signal Head	N/A
○→ Sign	N/A
○→ Pedestrian Signal Head With Push Button & Sign	■→ Pedestrian Signal Head
○→ Signal Pole with Guy	○→ Signal Pole with Guy
○→ Signal Pole with Sidewalk Guy	○→ Signal Pole with Sidewalk Guy
□→ Inductive Loop Detector	□→ Inductive Loop Detector
□→ Controller & Cabinet	□→ Controller & Cabinet
□→ Junction Box	□→ Junction Box
--- 2-in Underground Conduit	--- 2-in Underground Conduit
N/A	--- Right of Way
→	→ Directional Arrow

Signal Upgrade

Prepared In the Offices of:

SR 1404 (Morganton Road) at Sycamore Dairy Road / Westwood Shopping Center

Division 6 Cumberland County Fayetteville

PLAN DATE: February 2016 REVIEWED BY: JPG

PREPARED BY: KGP, Jr. REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1"=30'

REVISIONS: INIT. DATE

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

SIGNED: Jason P. Gallaway 10/17/2016

SIG. INVENTORY NO. 06-0361

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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