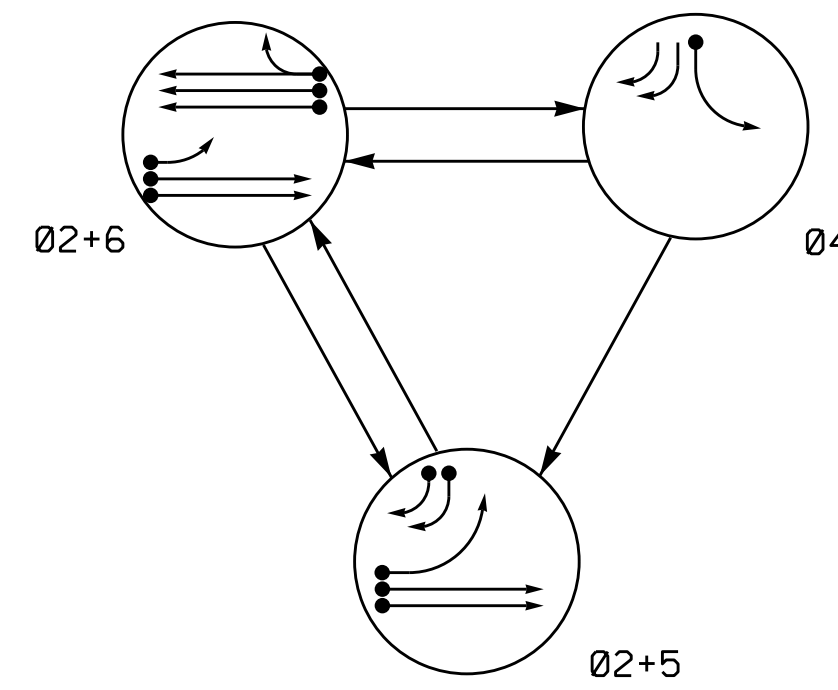
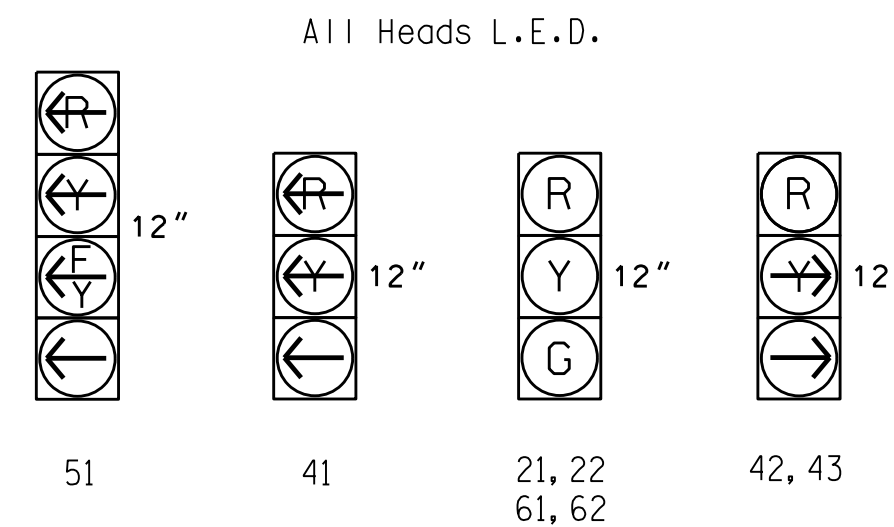


PHASING DIAGRAM



SIGNAL FACE	PHASE			
	02+5	02+6	04	F L S H
21, 22	G	G	R	Y
41	R	R	Y	R
42, 43	Y	R	Y	R
51	Y	R	Y	Y
61, 62	R	G	R	Y

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
2A	6X6	300	4	-	2	Yes	-	-	N	X
2B	6X6	300	4	-	2	Yes	-	-	N	X
4A	6X60	0	2-4-2	-	4	Yes	-	-	S	X
5A	6X60	0	2-4-2	-	2	Yes	-	15	S	X
5B	6X40	+5	2-4-2	-	5	Yes	-	15	S	X
5C	6X40	+5	2-4-2	-	5	Yes	-	15	S	X
6A	6X6	300	5	-	6	Yes	-	-	N	X
6B	6X6	300	5	-	6	Yes	-	-	N	X
6C	6X6	300	5	-	6	Yes	-	-	N	X

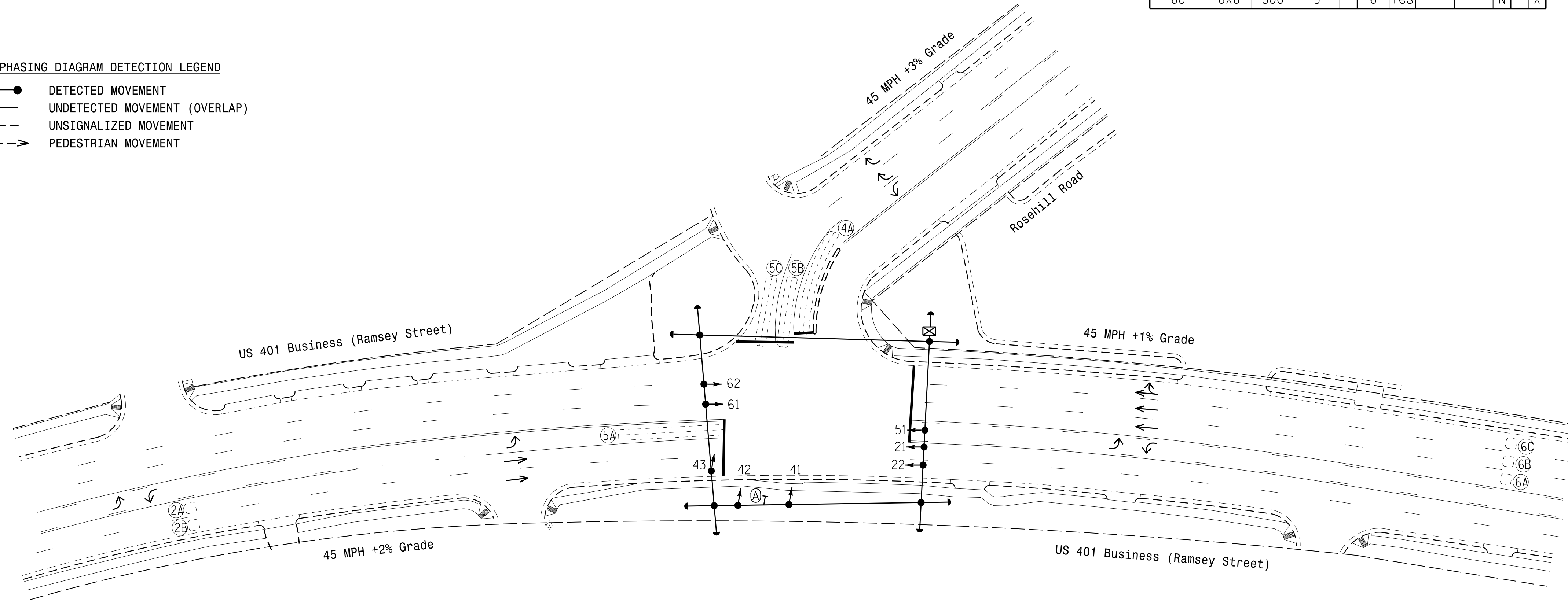
3 Phase Fully Actuated Fayetteville Signal System

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 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.
- 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 DETECTION LEGEND

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



ASC/3 TIMING CHART

FEATURE	PHASE			
	2	4	5	6
Min Green *	12	7	7	12
Walk *	-	-	-	-
Ped Clear	-	-	-	-
Veh. Extension *	6.0	1.0	2.0	6.0
Max 1 *	100	30	20	100
Yellow	4.4	3.0	3.0	4.4
Red Clear	1.5	2.6	2.4	1.5
Red Revert	-	-	-	-
Actuations B4 Add *	-	-	-	-
Seconds /Actuation *	1.5	-	-	1.5
Max Initial *	34	-	-	34
Time Before Reduction *	15	-	-	15
Time To Reduce *	35	-	-	35
Minimum Gap	3.0	-	-	3.0
Locking Detector	X	-	-	X
Recall Position	VEH. RECALL	-	-	VEH. RECALL
Dual Entry	-	-	-	-
Simultaneous Gap	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   | ⊥ → Sign   |
| ⊥ → Pedestrian Signal Head With Push Button & Sign | ⊥ → Pedestrian Signal Head With Push Button & Sign |
| ○ → 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                                 | N/A → Right of Way                                 |
| → → Directional Arrow                              | → → Directional Arrow                              |
| N/A → Wheelchair Ramp                              | → → Wheelchair Ramp                                |
| N/A → Fire Hydrant                                 | → → Fire Hydrant                                   |
| ⊙ → Street Name Sign                               | ⊙ → Street Name Sign                               |

Signal Upgrade

750 N. Greenfield Pkwy, Garner, NC 27529

**US 401 Business (Ramsey Street) at Rosehill Road**

Division 6 Cumberland County Fayetteville

PLAN DATE: December 2015 REVIEWED BY: JG

PREPARED BY: Devin Smith REVIEWED BY:

SEAL

DATE: 5/11/2016

SIG. INVENTORY NO. 06-0748

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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