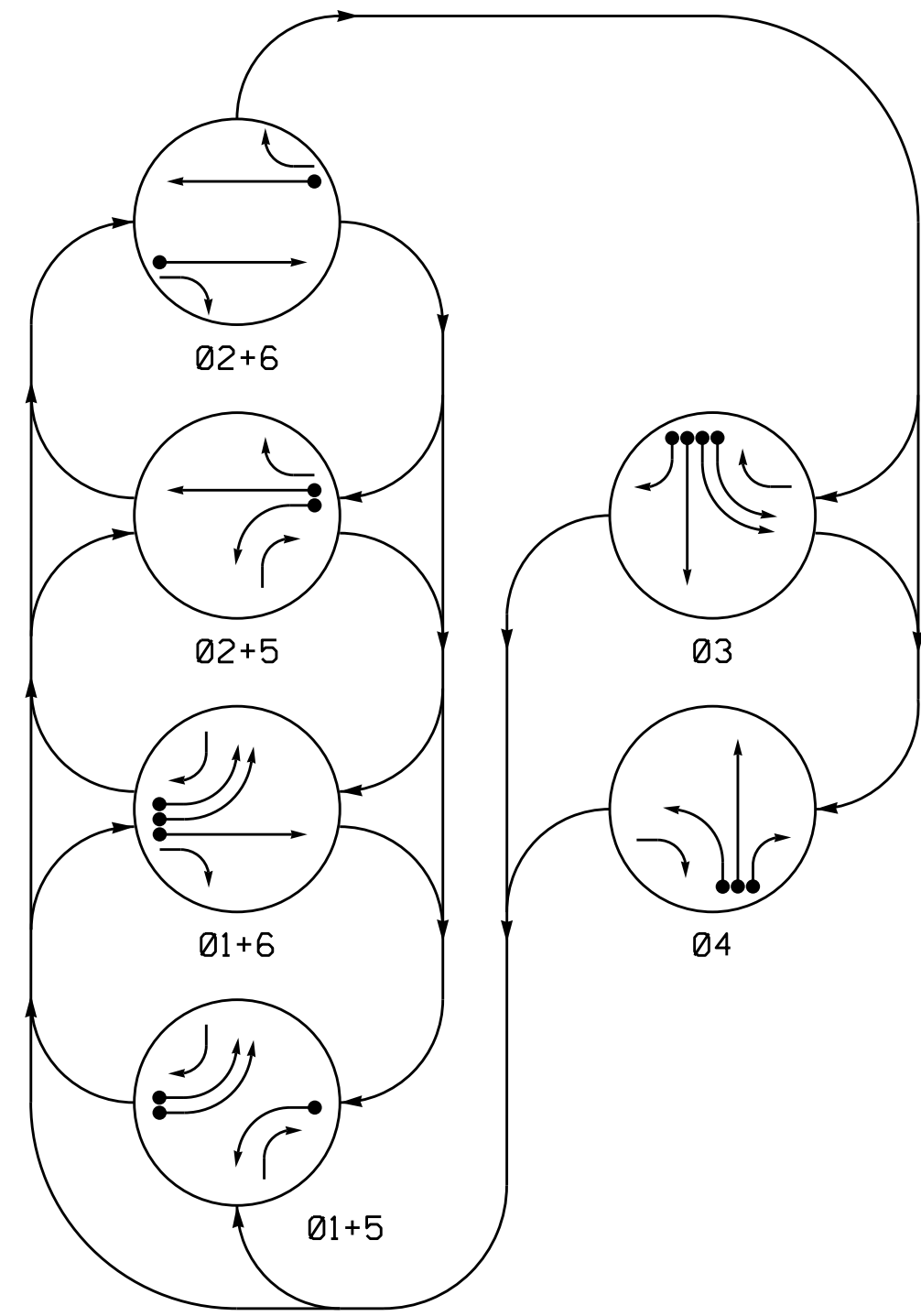


PHASING DIAGRAM



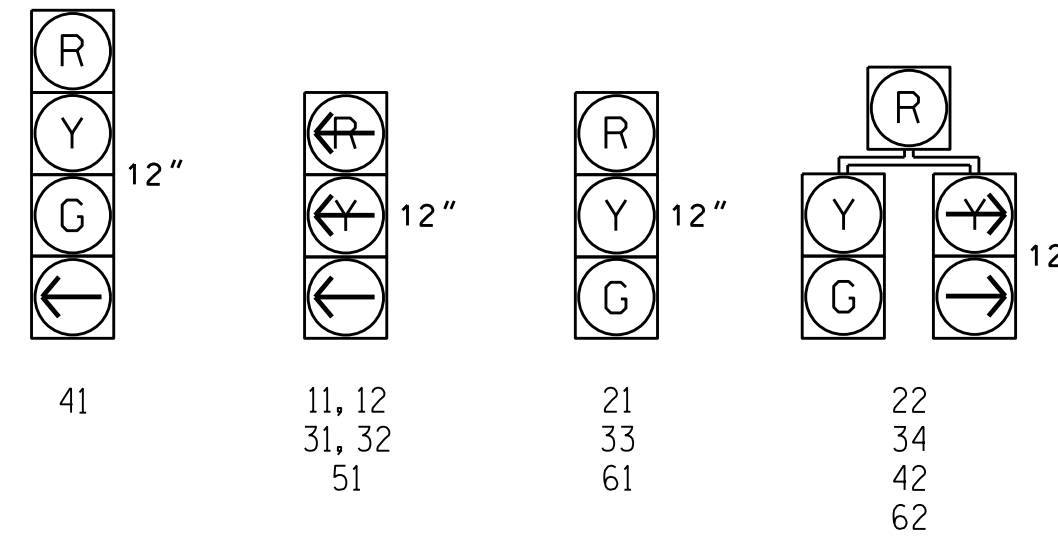
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	03	04
11, 12	←	←	←	←	←	←
21	R	R	G	G	R	R
22	R	R	G	G	R	R
31, 32	←	←	←	←	←	←
33	R	R	R	R	G	R
34	R	R	R	R	G	R
41	R	R	R	R	G	R
42	R	R	R	R	G	R
51	←	←	←	←	←	←
61	R	G	R	G	R	R
62	R	G	R	G	R	R

SIGNAL FACE I.D.

All Heads L.E.D.

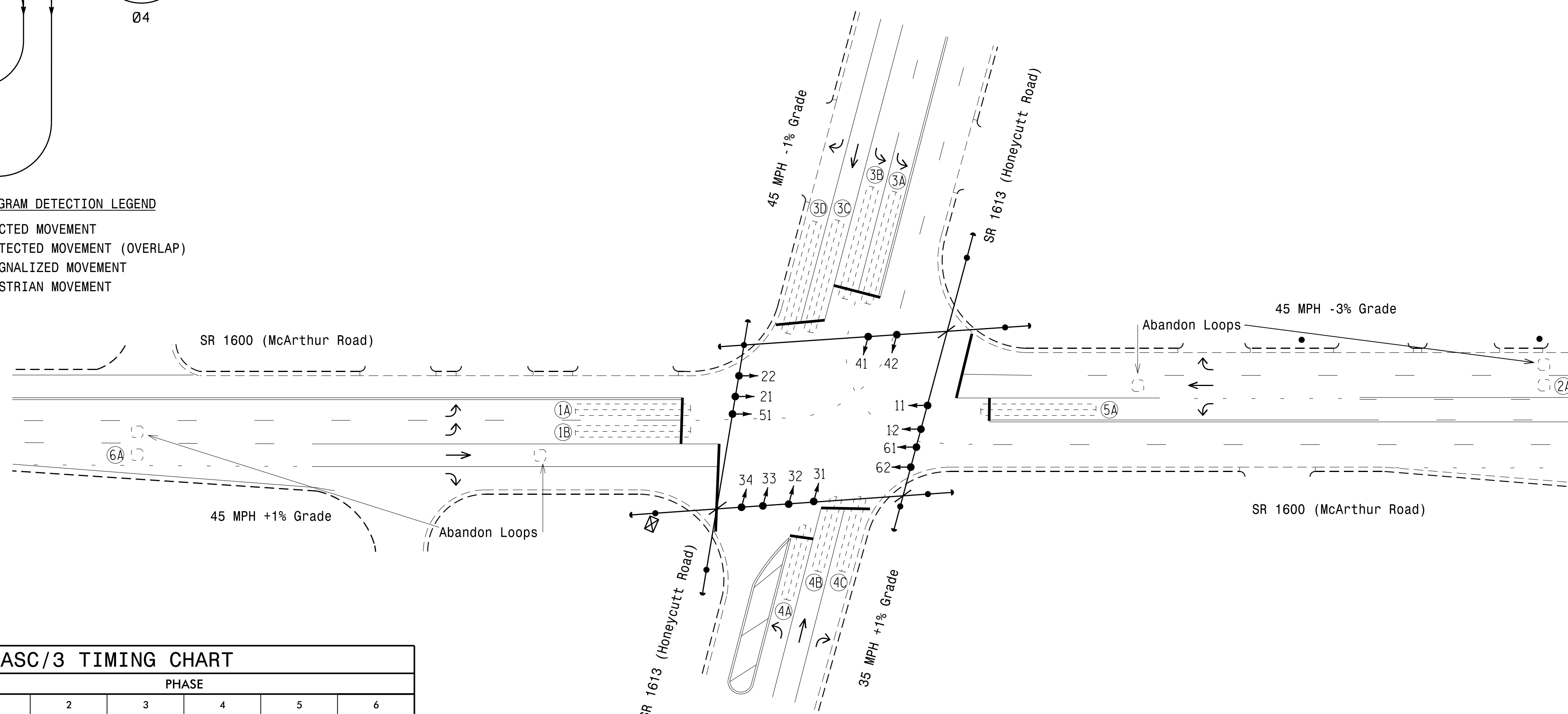


LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	
1A, 1B	6X60	+5	2-4-2	-	1	Yes	-	-	S	-	X
2A	6X6	300	4	-	2	Yes	-	-	N	-	X
3A	6X60	+5	2-4-2	-	3	Yes	-	-	S	-	X
3B	6X60	+5	2-4-2	-	3	Yes	-	-	S	-	X
3C	6X60	+5	2-4-2	-	3	Yes	-	-	S	-	X
3D	6X60	+5	2-4-2	-	3	Yes	-	15	S	-	X
4A, 4B	6X40	+5	2-4-2	-	4	Yes	-	-	S	-	X
4C	6X40	+5	2-4-2	-	4	Yes	-	15	S	-	X
5A	6X60	+5	2-4-2	-	5	Yes	-	-	S	-	X
6A	6X6	300	4	-	6	Yes	-	-	N	-	X

6 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.
- The order of phase 3 and phase 4 may be reversed.
- 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.



FEATURE	ASC/3 TIMING CHART					
	1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	1.0	6.0	1.0	2.0	1.0	6.0
Max I *	20	90	30	20	15	90
Yellow	3.0	4.8	4.6	3.8	3.0	4.8
Red Clear	3.6	1.6	1.5	2.0	3.6	1.6
Actuations B4 Add *	-	0	-	-	-	0
Seconds / Actuation *	-	1.5	-	-	-	1.5
Max Initial *	-	34	-	-	-	34
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	-	-	-	-	-	-
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

- | | | | |
|----|--|-----|----------|
| ○→ | TRAFFIC SIGNAL HEAD | ●→ | EXISTING |
| ○→ | MODIFIED SIGNAL HEAD | N/A | |
| ⊥ | SIGN | | |
| ⊥ | PEDESTRIAN SIGNAL HEAD WITH PUSH BUTTON & SIGN | ⊥ | |
| ⊥ | SIGNAL POLE WITH GUY | ⊥ | |
| ⊥ | SIGNAL POLE WITH SIDEWALK GUY | ⊥ | |
| ⊥ | INDUCTIVE LOOP DETECTOR | ⊥ | |
| ⊥ | CONTROLLER & CABINET | ⊥ | |
| ⊥ | JUNCTION BOX | ⊥ | |
| ⊥ | 2-IN UNDERGROUND CONDUIT | ⊥ | |
| → | N/A | → | |
| → | RIGHT OF WAY | → | |
| → | DIRECTIONAL ARROW | → | |

Signal Upgrade

750 N. Greenfield Pkwy, Garner, NC 27529

SR 1600 (McArthur Road) at SR 1613 (Honeycutt Road)

Division 6 Cumberland County Fayetteville

PLAN DATE: March 2016 REVIEWED BY: JPG

PREPARED BY: Devin Smith REVIEWED BY:

SEAL

SEAL 029904

JASON P. GALLOWAY

5/31/2016

SIG. INVENTORY NO. 06-0768

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

3:14:58-2016 11:38
 S:\MIS\501\115\SIGNAL\Signal Design Section\Eastern Region\01\U-5742 Fayetteville ASC3\606-0768\060768.sfg.dsn_2016mmds.dgn
 J:\110501