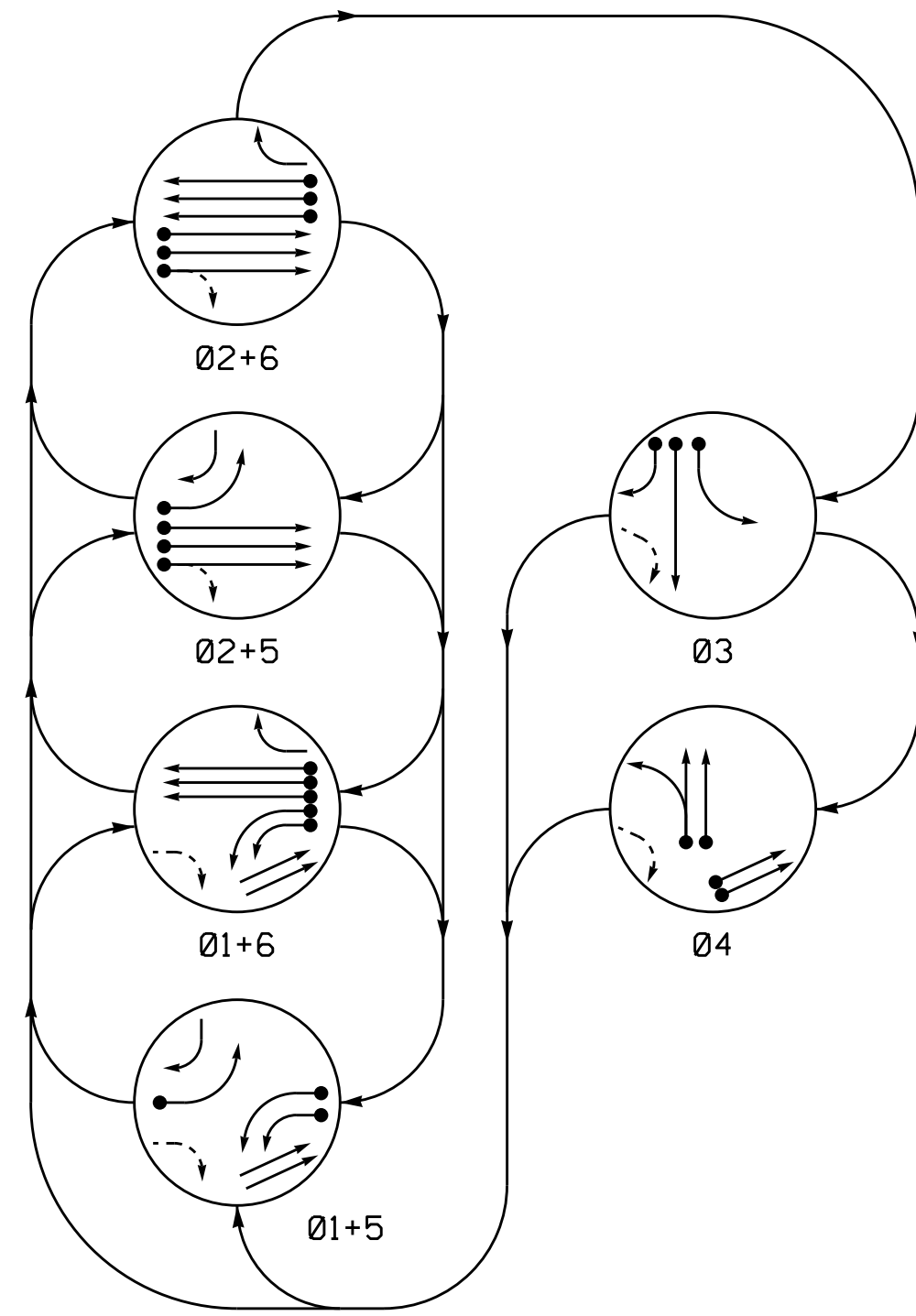


PHASING DIAGRAM



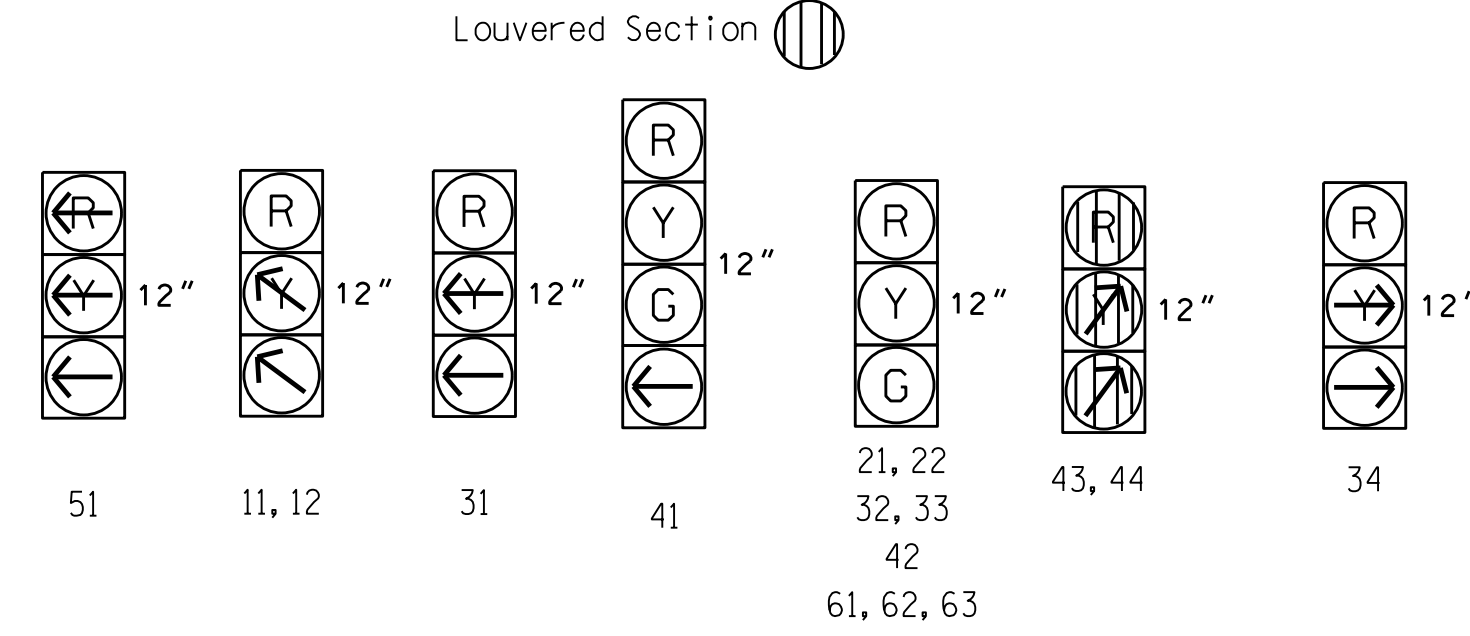
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	03	04
11,12	✓	✓	R	R	R	R
21,22	R	R	G	G	R	Y
31	R	R	R	R	←	R
32,33	R	R	R	R	G	R
34	→	R	→	R	→	R
41	R	R	R	R	R	G
42	R	R	R	R	R	G
43,44	✓	✓	R	R	R	✓
51	←	←	←	←	←	←
61,62,63	R	G	R	G	R	Y

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	0	2-4-2	-	1	Yes	-	-	S	-	X
1B	6X40	0	2-4-2	-	1	Yes	-	-	S	-	X
2A	6X6	300	6	-	2	Yes	-	-	N	-	X
2B	6X6	300	6	-	2	Yes	-	-	N	-	X
2C	6X6	300	6	-	2	Yes	-	-	N	-	X
3A	6X40	+5	2-4-2	-	3	Yes	-	3	S	-	X
3B	6X40	+5	2-4-2	-	3	Yes	-	-	S	-	X
3C	6X40	+5	2-4-2	-	3	Yes	-	15	S	-	X
4A	6X40	+5	2-4-2	-	4	Yes	-	-	S	-	X
4B	6X40	+5	2-4-2	-	4	Yes	-	-	S	-	X
4C	6X60	+5	2-4-2	-	4	Yes	-	-	S	-	X
4D	6X60	+5	2-4-2	-	4	Yes	-	-	S	-	X
5A	6X40	0	2-4-2	-	5	Yes	-	-	S	-	X
6A	6X6	300	4	-	6	Yes	-	-	N	-	X
6B	6X6	300	4	-	6	Yes	-	-	N	-	X
6C	6X6	300	4	-	6	Yes	-	-	N	-	X
S2A	6X6	+588	5	-	-	No	-	-	N	X	X
S2B	6X6	+588	5	-	-	No	-	-	N	X	X
S2C	6X6	+588	5	-	-	No	-	-	N	X	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.

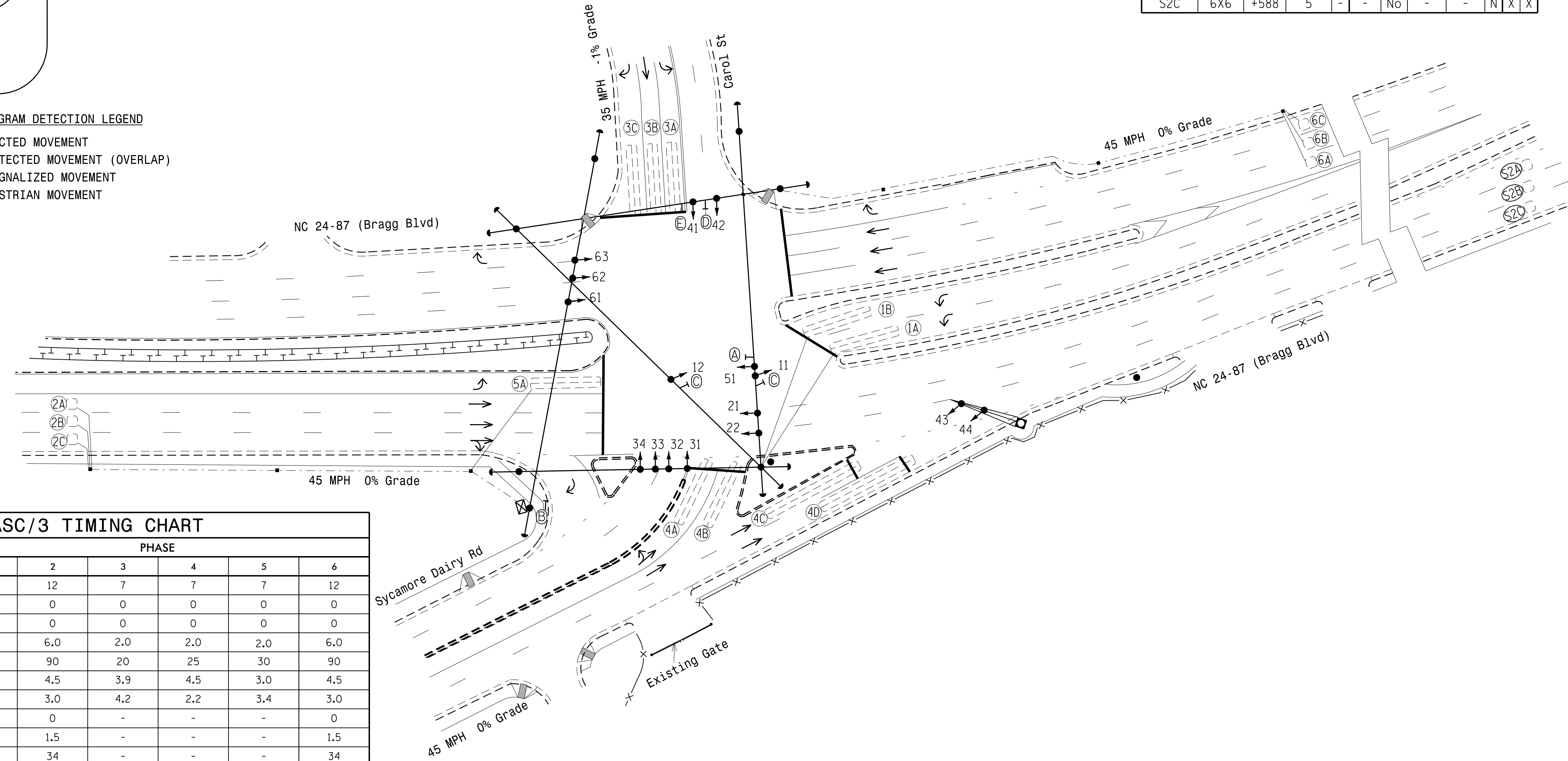
LEGEND

- | | | | |
|--|--|--|----------|
| | Traffic Signal Head | | EXISTING |
| | Modified Signal Head | | N/A |
| | Pedestrian Signal Head With Push Button & Sign | | N/A |
| | Signal Pole with Guy | | N/A |
| | Signal Pole with Sidewalk Guy | | N/A |
| | Metal Pole with Mast Arm | | N/A |
| | Inductive Loop Detector | | N/A |
| | Controller & Cabinet | | N/A |
| | Junction Box | | N/A |
| | Guard Rail | | N/A |
| | Fence | | N/A |
| | Wheel Chair Ramp | | N/A |
| | 2-in Underground Conduit | | N/A |
| | Right of Way | | N/A |
| | Directional Arrow | | N/A |
| | "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) | | N/A |
| | "YIELD" Sign (R1-2) | | N/A |
| | "LEFT TURN SIGNAL" Sign (R10-10) | | N/A |
| | Through Arrow "ONLY" Sign (R3-5A) | | N/A |
| | Combined Through and Left Arrow Sign (R3-6L) | | N/A |

ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Walk *	0	0	0	0	0	0
Ped Clear	0	0	0	0	0	0
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	35	90	20	25	30	90
Yellow	3.5	4.5	3.9	4.5	3.0	4.5
Red Clear	3.3	3.0	4.2	2.2	3.4	3.0
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.



Signal Upgrade

750 N. Greenfield Pkwy, Garner, NC 27529

NC 24-87 (Bragg Blvd) at Sycamore Dairy Rd/Carol St

Division 6 Cumberland County Fayetteville

PLAN DATE: September 2015 REVIEWED BY: JPG

PREPARED BY: K.G. Peedin, Jr. REVIEWED BY:

SEAL

SEAL 029904

JASON P. GALLAWAY

ENGINEER

SCALE: 1" = 40'

REVISIONS: _____ INIT. DATE

DocuSigned by: Jason P. Gallaway 3/14/2016

SIG. INVENTORY NO. 06-0236

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