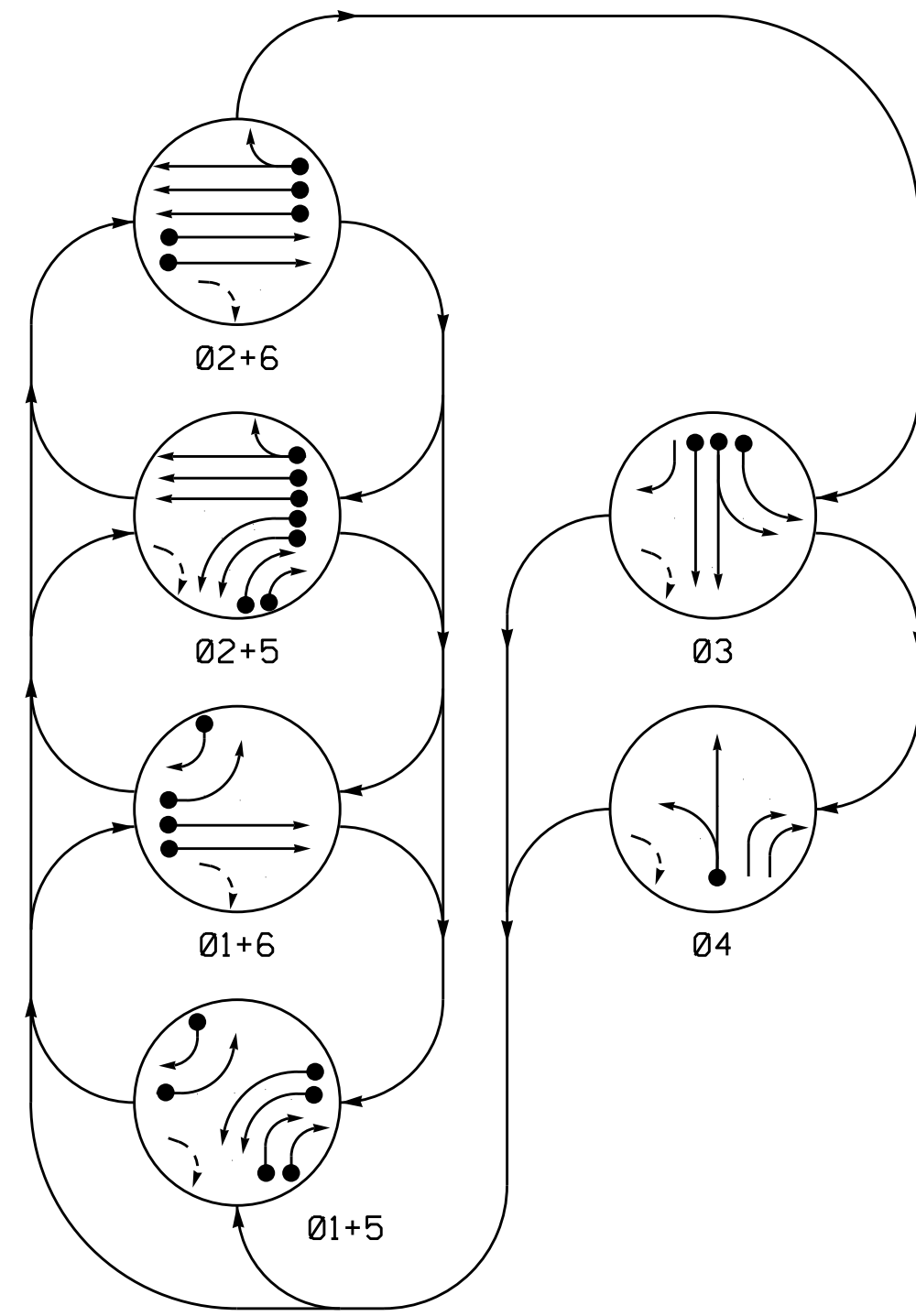


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

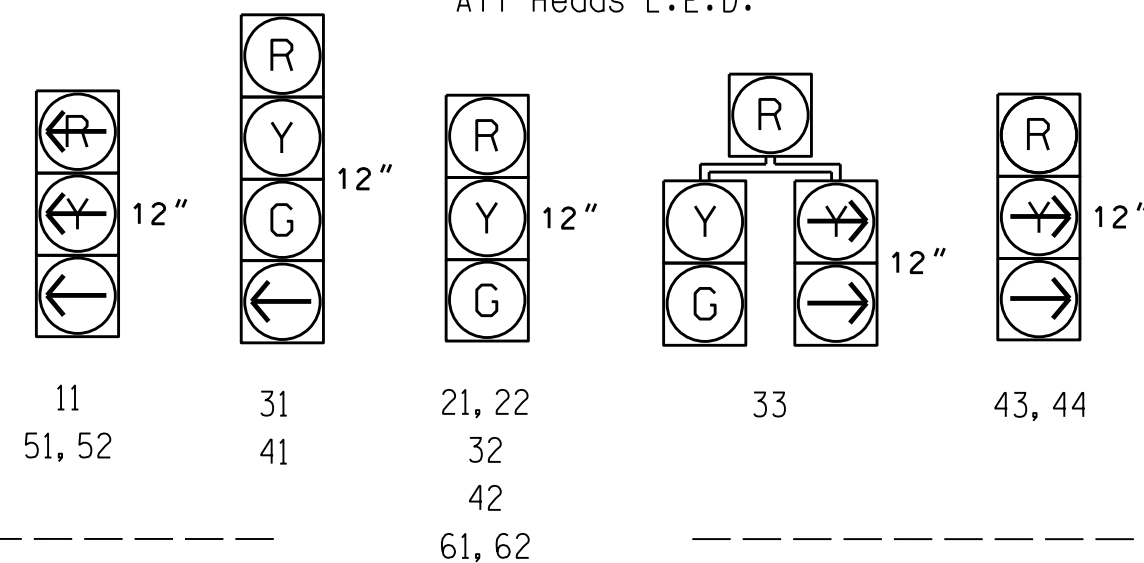
- ← ● → DETECTED MOVEMENT
- ← ○ → UNDETECTED MOVEMENT (OVERLAP)
- ← - - - → UNSIGNALIZED MOVEMENT
- ← - - - P → PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE						FLASH
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 3	Ø 4	
11	←	←	←	←	←	←	—
21,22	R	R	G	G	R	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
33	R	R	R	R	G	R	R
41	R	R	R	R	R	G	R
42	R	R	R	R	R	G	R
43,44	←	←	←	←	←	←	—
51,52	←	←	←	←	←	←	—
61,62	R	G	R	G	R	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



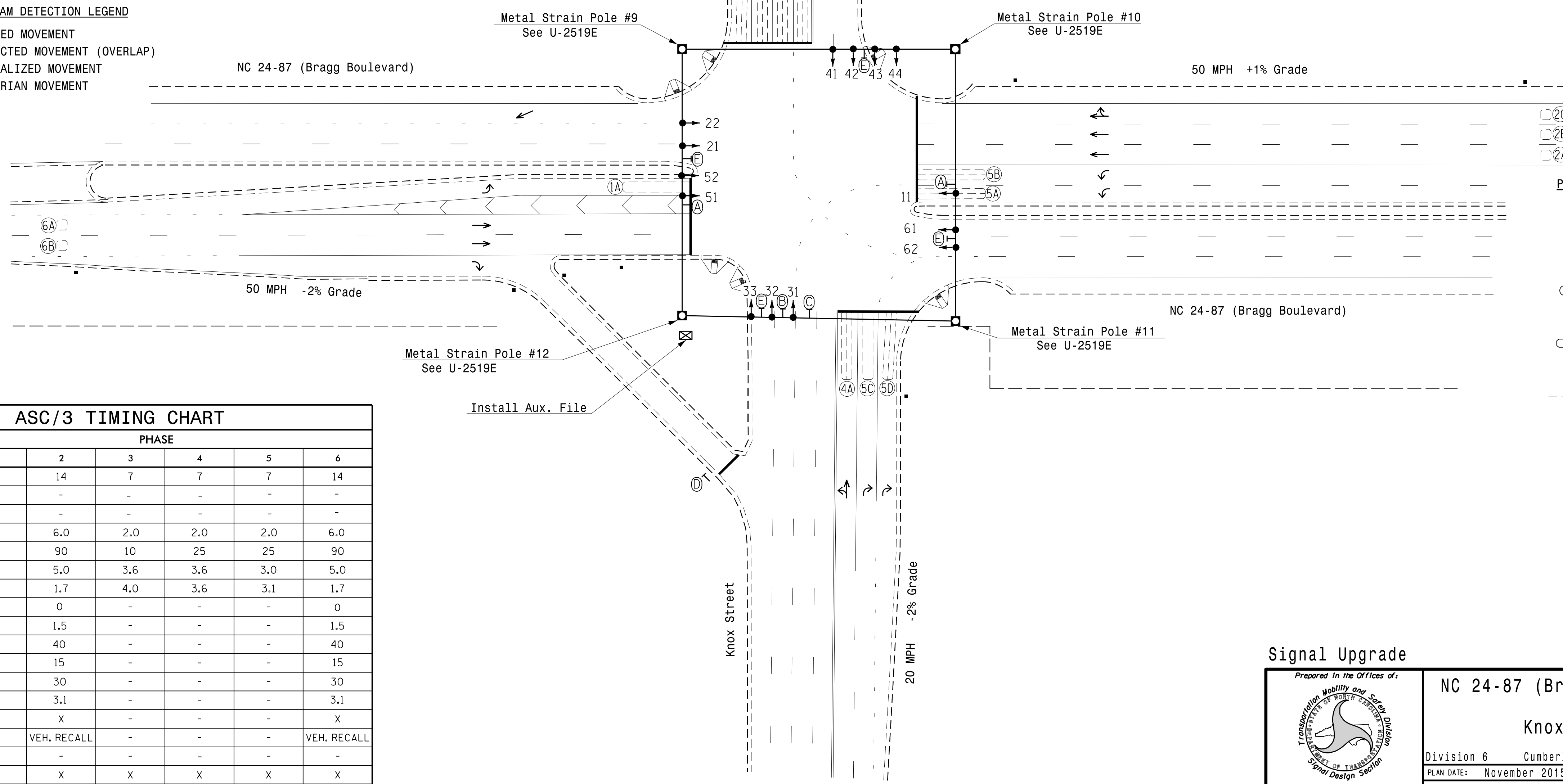
ASC/3 DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING						
					PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	
1A	6X40	0	2-4-2	-	1	Yes	-	-	S	-	X
1B	6X40	0	2-4-2	-	1	Yes	-	15	S	-	X
2A	6X6	360	6	-	2	Yes	-	-	N	-	X
2B	6X6	360	6	-	2	Yes	-	-	N	-	X
2C	6X6	360	6	-	2	Yes	-	-	N	-	X
3A	6X40	0	2-4-2	-	3	Yes	-	3	S	-	X
3B	6X40	0	2-4-2	-	3	Yes	-	-	S	-	X
3C	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	-	-	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	6X6	360	6	-	6	Yes	-	-	N	-	X
6B	6X6	360	6	-	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.
- 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

- | | |
|--|-------------------------|
| PROPOSED | EXISTING |
| ○ → Traffic Signal Head | ● → Traffic Signal Head |
| ○ → Modified Signal Head | N/A |
| ○ → Sign | — |
| ○ → Pedestrian Signal Head With Push Button & Sign | — |
| ○ → Signal Pole with Guy | — |
| ○ → Signal Pole with Sidewalk Guy | — |
| ○ → Metal Strain Pole | — |
| ○ → Inductive Loop Detector | — |
| ○ → Controller & Cabinet | — |
| ○ → Junction Box | — |
| ○ → 2-in Underground Conduit | — |
| ○ → Right of Way | — |
| ○ → Directional Arrow | — |
| ○ → Wheelchair Ramp | — |
| ○ → Guard Rail | — |
| ○ → "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) | ○ → |
| ○ → Through Arrow "ONLY" Sign (R3-5A) | ○ → |
| ○ → Left Arrow "ONLY" Sign (R3-5L) | ○ → |
| ○ → "STOP" Sign (R1-1) | ○ → |
| ○ → "STREET NAME" Sign (R1-1) | ○ → |

ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	14	7	7	7	14
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	25	90	10	25	25	90
Yellow	3.0	5.0	3.6	3.6	3.0	5.0
Red Clear	3.1	1.7	4.0	3.6	3.1	1.7
Actuations B4 Add *	-	0	-	-	-	0
Seconds / Actuation *	-	1.5	-	-	-	1.5
Max Initial *	-	40	-	-	-	40
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.1	-	-	-	3.1
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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NC 24-87 (Bragg Boulevard) at Knox Street

Division 6 Cumberland County Fort Bragg

PLAN DATE: November 2015 REVIEWED BY: JPG, PE

PREPARED BY: EM Minshew REVIEWED BY:

SCALE 0 40
1"=40'

750 N. Greenfield Pkwy, Garner, NC 27529

Disciplined by: Jason P. Callaway 2/19/2016

SIG. INVENTORY NO. 06-0905

10-1-15-2015 11:56
 S:\Projects\Signal Design\Section\Eastern Region\04-5742 Fayetteville ASC/3\06-0905.s1a.dsn_2015.mxd.dgn
 emminshew