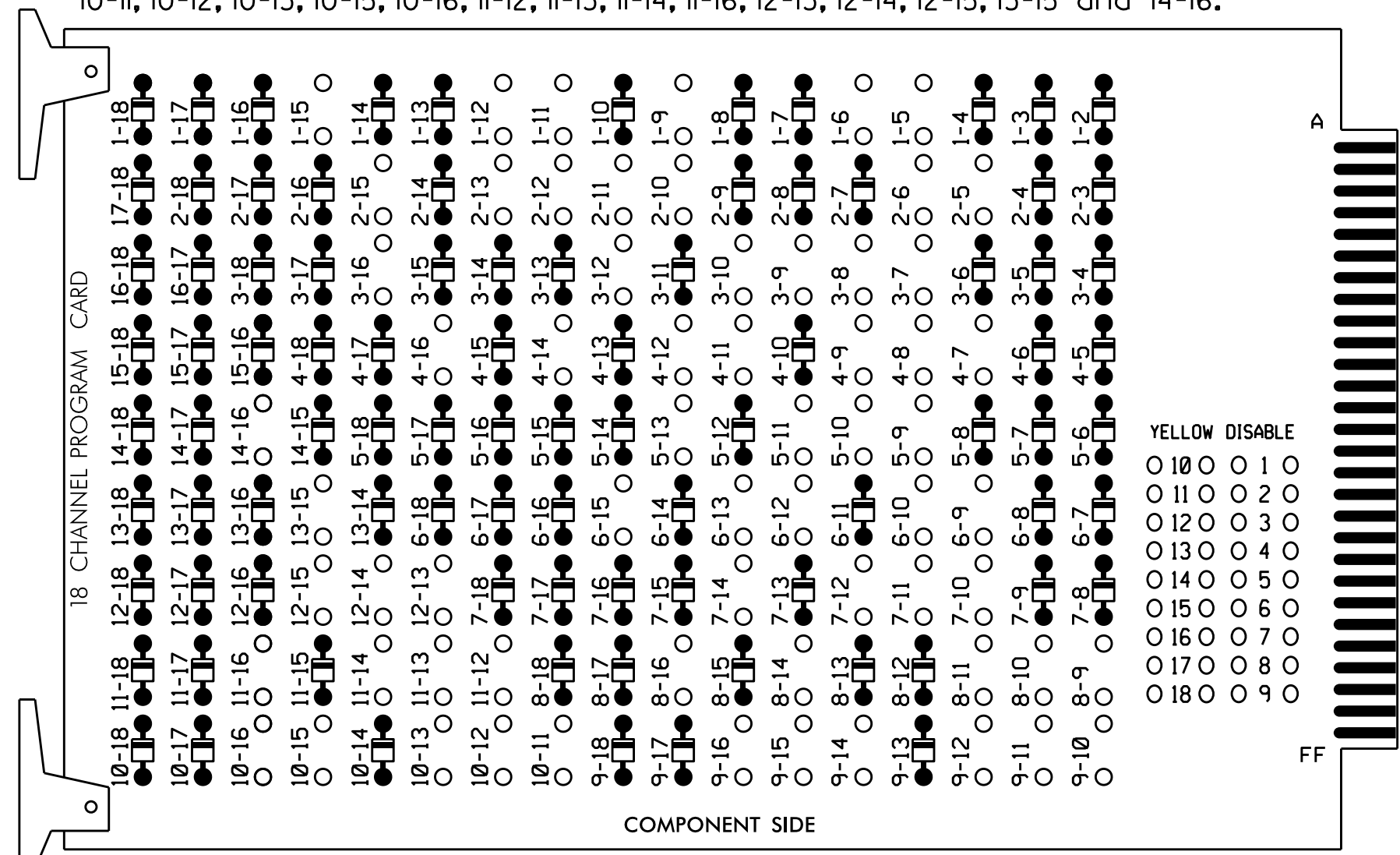


**EDI MODEL 2018ECL-NC CONFLICT MONITOR
PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

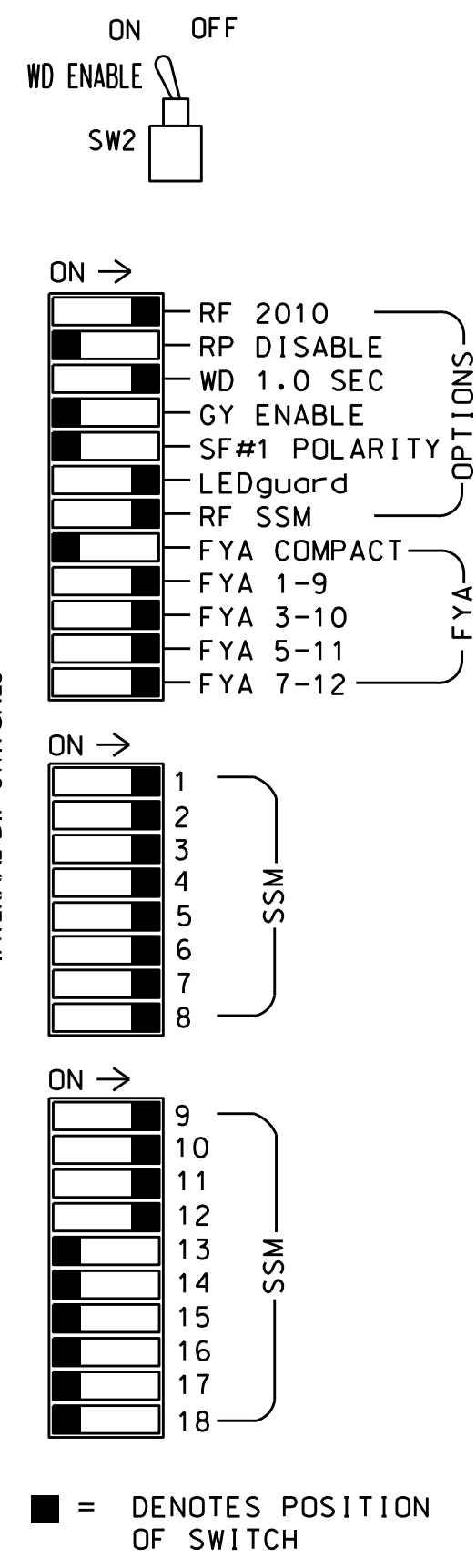
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-12, 1-15, 2-5, 2-6, 2-10, 2-11, 2-12, 2-13, 2-15, 3-7, 3-8, 3-9, 3-10, 3-12, 3-16, 4-7, 4-8, 4-9, 4-11, 4-12, 4-14, 4-16, 5-9, 5-10, 5-11, 5-13, 6-9, 6-10, 6-12, 6-13, 6-15, 7-10, 7-11, 7-12, 7-14, 8-9, 8-10, 8-11, 8-14, 8-16, 9-10, 9-11, 9-12, 9-14, 9-15, 9-16, 10-11, 10-12, 10-13, 10-15, 10-16, 11-12, 11-13, 11-14, 11-16, 12-13, 12-14, 12-15, 13-15 and 14-16.



REMOVE JUMPERS AS SHOWN

NOTES:

- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
- Ensure that Red Enable is active at all times during normal operation.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6					
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18					
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE					
SIGNAL HEAD NO.	11,12	83,84	21,22	P21, P22	31	23	41,42	P41, P42	51	43	61,62	P61, P62	71	63	81,82	P81, P82	83,84	23	NU	43	63	NU	
RED			128			101			134			107											
YELLOW			129			102			135			108											
GREEN			130			103			136			109											
RED ARROW	125			116				131			122		A121	A124		A114	A101						
YELLOW ARROW	126			117				132			123		A122	A125		A115	A102						
FLASHING YELLOW ARROW													A123	A126		A116	A103						
GREEN ARROW	127	127		118	118			133	133		124	124											
Hand				113				104			119												
Walking				115				106			121												

NU = Not Used

* See pictorial of head wiring on this sheet.

* Wire Overlaps A and B to flash on Flasher Unit #1, Circuit #2.
Wire Overlaps C and D to flash on Flasher Unit #1, Circuit #1.

EQUIPMENT INFORMATION

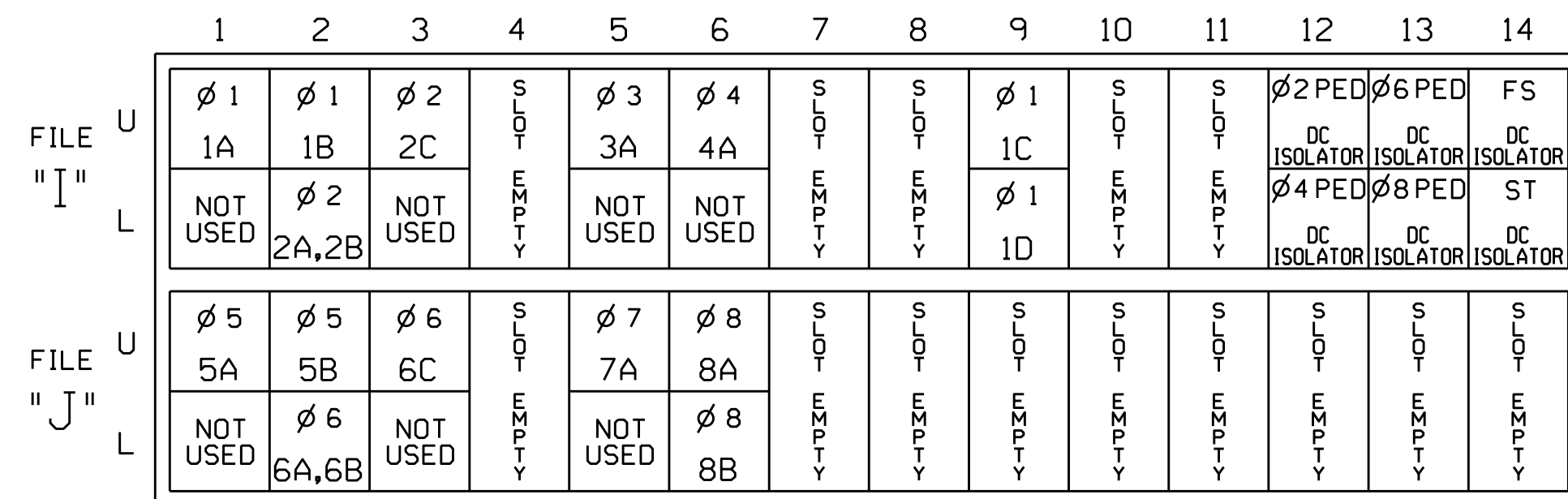
CONTROLLER.....2070L
CABINET.....332 W/AUX
SOFTWARE.....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS..18 (12-STD; 6-AUX)
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8
S9,S10,S11,S12,AUX S1
AUX S2,AUX S4,AUX S5
PHASES USED.....1,2,2 PED,3,4,4 PED
5,6,6 PED,7,8,8 PED
OVERLAP 'A'.....1+8
OVERLAP 'B'.....2+3
OVERLAP 'C'.....4+5
OVERLAP 'D'.....6+7

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

INPUT FILE POSITION LAYOUT

(front view)



EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME

NOTES

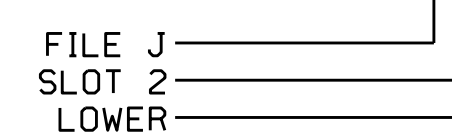
- To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2, 4, 6 and 8 for 'STARTUP PED CALL'.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 4 as Wag Overlaps.
- The cabinet and controller are part of the Fayetteville Signal System.

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A	TB2-1,2	I1U	56	18	1	1	Y	Y			
1B	TB2-5,6	I2U	39	1	2	1	Y	Y			
1C	TB6-9,10	I9U	60	22	11	1	Y	Y			15
1D	TB6-11,12	I9L	62	24	13	1	Y	Y			15
2A,2B	TB2-7,8	I2L	43	5	12	2	Y	Y			
2C	TB2-9,10	I3U	63	25	32	2	Y	Y			
3A	TB4-5,6	I5U	58	20	3	3	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			
5B	TB3-5,6	J2U	40	2	6	5	Y	Y			15
6A,6B	TB3-7,8	J2L	44	6	16	6	Y	Y			
6C	TB3-9,10	J3U	64	26	36	6	Y	Y			
7A	TB5-5,6	J5U	57	19	7	7	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			
8B	TB5-11,12	J6L	46	8	18	8	Y	Y			
PED PUSH BUTTONS											
P21,P22	TB8-4,6	I12U	67	29		PED 2	2	PED			
P41,P42	TB8-5,6	I12L	69	31		PED 4	4	PED			
P61,P62	TB8-7,9	I13U	68	30		PED 6	6	PED			
P81,P82	TB8-8,9	I13L	70	32		PED 8	8	PED			

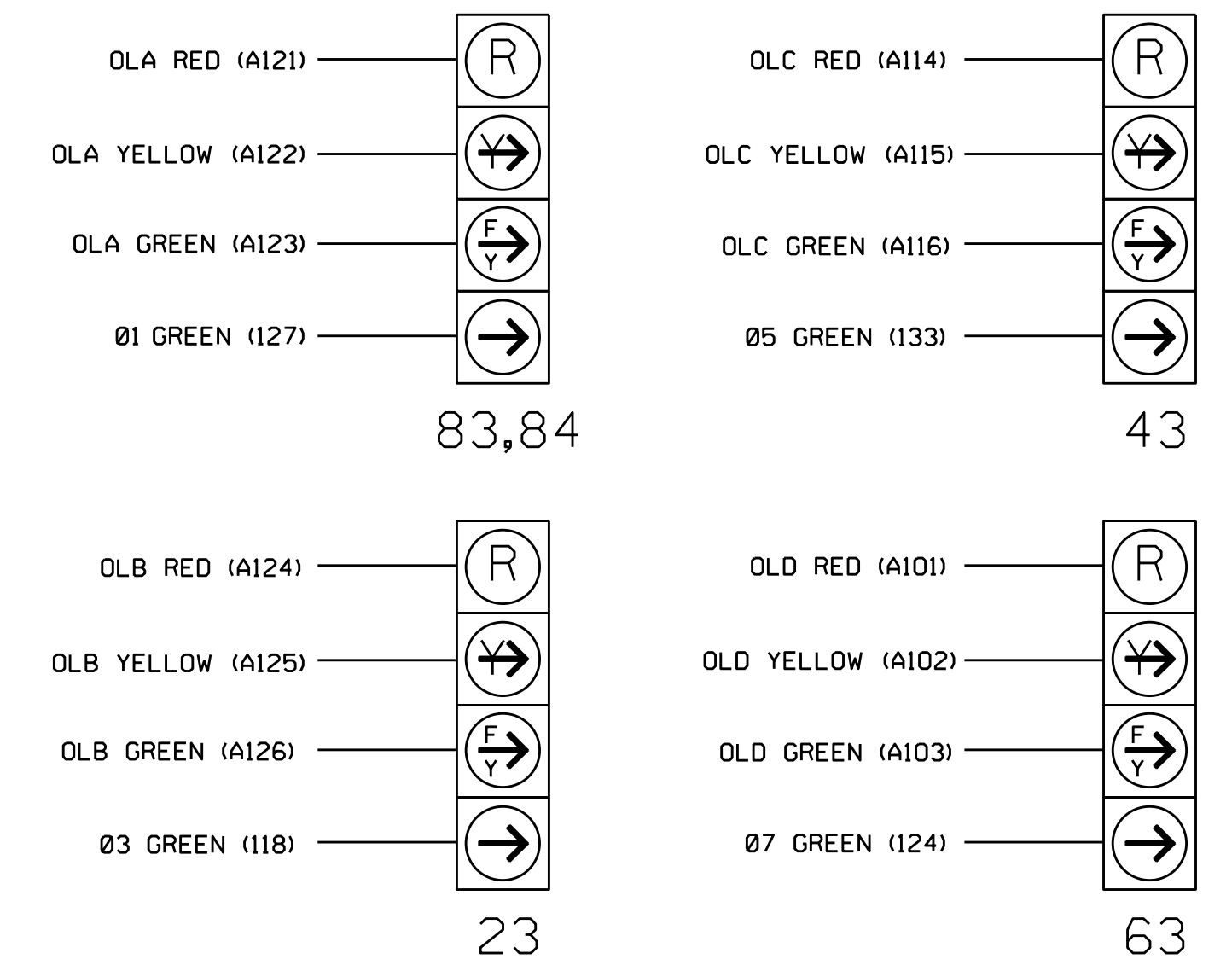
NOTE:
INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

The sequence display for these signal heads require special logic programming. See sheet 2 for programming instructions.

Electrical Detail - Sheet 1 of 2 - Final

Electrical and Programming Details for: NC 24-210 (Rowan Street) / NC 24 (Bragg Boulevard) at NC 210 (Murchison Road) / Bragg Boulevard

Prepared in the Offices of: Transportation Mobility and Safety Solutions, Inc. 750 N. Greenfield Pkwy, Garner, NC 27529

Division 6 Cumberland County Fayetteville

PLAN DATE: July 2015 REVIEWED BY:

PREPARED BY: B. SIMMONS REVIEWED BY:

REVISIONS INIT. DATE

Seal of George C. Brown, Professional Engineer, License No. 022013

DocuSigned by: George C. Brown 8/31/2015

SIG. INVENTORY NO. 06-1336

06-1336-01E 06-10 S:\IT\SSU\15_Signal\working\06-1336_smc_elec_xxxx.dgn