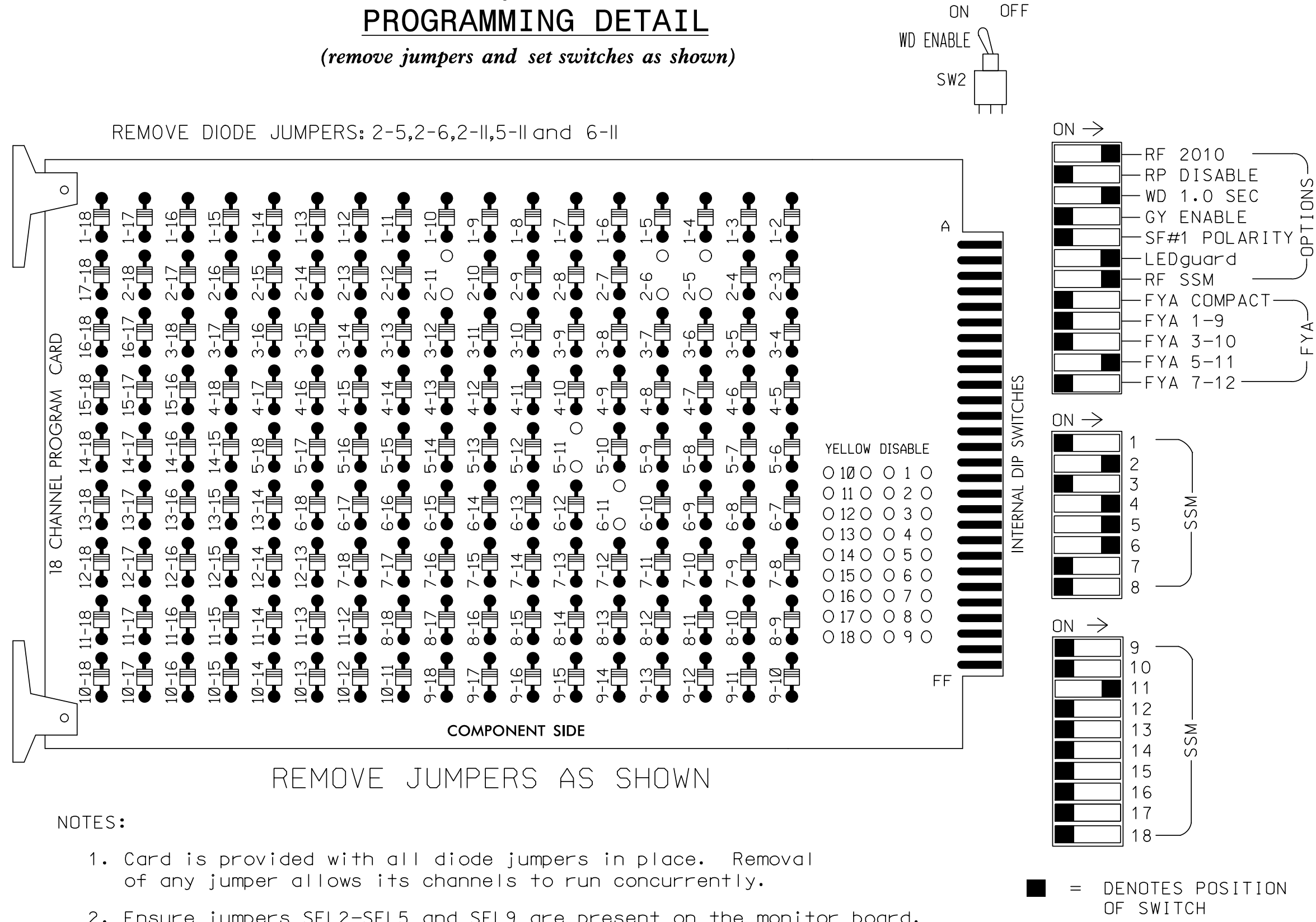


EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL
(remove jumpers and set switches as shown)



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 volume density operation.
- Program controller to start up in phase 2 Green and 6 Green.
- The cabinet and controller are part of the Fayetteville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/AUX
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S2,S5,S7,S8,AUX S4
 PHASES USED.....2,4,5,6
 OVERLAP "A".....NOT USED
 OVERLAP "B".....NOT USED
 OVERLAP "C".....NOT USED
 OVERLAP "D".....NOT USED

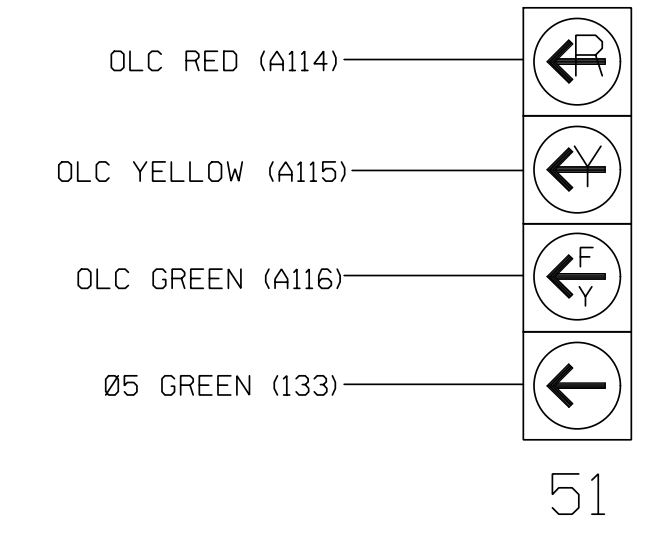
* See overlap programming detail on this sheet

SIGNAL HEAD HOOK-UP CHART

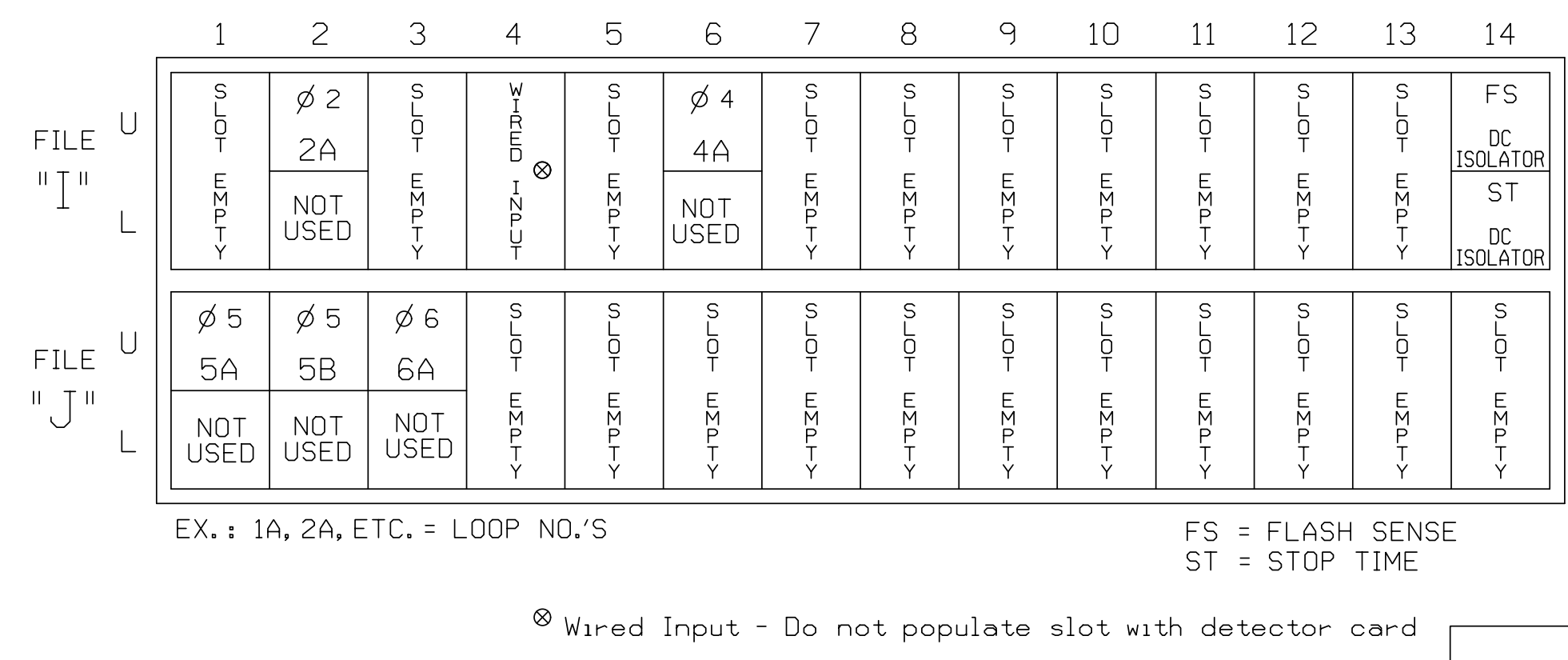
| LOAD SWITCH NO. | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | AUX S1 | AUX S2 | AUX S3 | AUX S4 | AUX S5 | AUX S6 | |
|-----------------------|-----|-------|-----|----|-------|-----|----|-----|-----|-------|-----|-----|--------|--------|--------|--------|--------|--------|------|
| CMU CHANNEL NO. | 1 | 2 | 13 | 3 | 4 | 14 | 5 | 6 | 15 | 7 | 8 | 16 | 9 | 10 | 17 | 11 | 12 | 18 | |
| PHASE | 1 | 2 | PED | 3 | 4 | PED | 5 | 6 | PED | 7 | 8 | PED | OLA | OLB | SPARE | OLC | OLD | SPARE | |
| SIGNAL HEAD NO. | NU | 21,22 | NU | NU | 41,42 | 62 | NU | 42 | 51* | 61,62 | NU | NU | NU | NU | NU | 51 | NU | NU | |
| RED | 128 | | | | 101 | | | | * | 134 | | | | | | | | | |
| YELLOW | 129 | | | | 102 | | | | | 135 | | | | | | | | | |
| GREEN | 130 | | | | 103 | | | | | 136 | | | | | | | | | |
| RED ARROW | | | | | | | | | | | | | | | | | | A114 | |
| YELLOW ARROW | | | | | 102 | | | 132 | | | | | | | | | | | A115 |
| FLASHING YELLOW ARROW | | | | | | | | | | | | | | | | | | | A116 |
| GREEN ARROW | | | | | 103 | | | 133 | 133 | | | | | | | | | | |

NU = Not Used

FYA SIGNAL WIRING DETAIL
(wire signal heads as shown)



INPUT FILE POSITION LAYOUT
(front view)



INPUT FILE CONNECTION & PROGRAMMING CHART

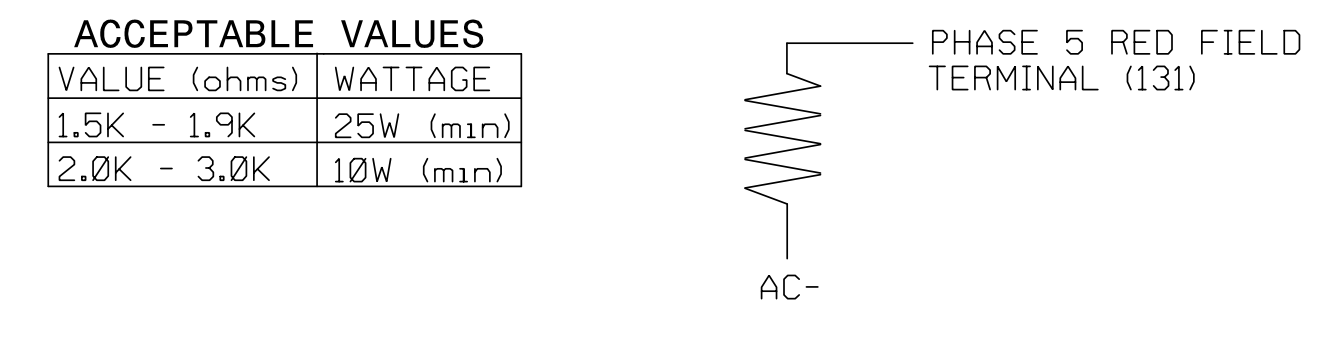
| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND TIME | DELAY TIME | DETECTOR TYPE |
|-----------------|---------------|-----------------|---------|--------------|------------|------|-------------|------------|---------------|
| 2A | TB2-5,6 | I2U | 39 | 2 | 2 | YES | | | N |
| 4A | TB4-9,10 | I6U | 41 | 4 | 4 | YES | | | S |
| 5A ¹ | TB3-1,2 | J1U | 55 | 5 | 5 | YES | | 15 | S |
| | | I4U | 47 | 22 | 2 | YES | | 3 | G |
| 5B | TB3-5,6 | J2U | 40 | 6 | 5 | YES | | 15 | S |
| 6A | TB3-9,10 | J3U | 64 | 36 | 6 | YES | | | N |

¹Add jumper from J1-W to 14-W, on rear of input file.

ECONOLITE ASC/3-2070 OVERLAP PROGRAMMING DETAIL
(program controller as shown)

- From Main Menu select **2. CONTROLLER**
 - From CONTROLLER Submenu select **2. VEHICLE OVERLAPS**
TOGGLE TWICE
OVERLAP C
- Select TMG VEH OVLP [C] and 'PPLT FYA'
- TMG VEH OVLP...[C] TYPE:[PPLT FYA]
- PROTECTED LEFT TURN.... PHASE 5
OPPOSING THROUGH..... PHASE 6
- FLASHING ARROW OUTPUT.....CH11 ISOLATE
DELAY START OF: FYA..0.0 CLEARANCE..0.0
ACTION PLAN SF BIT DISABLE..... 0
- END PROGRAMMING

LOAD RESISTOR INSTALLATION DETAIL
(install resistors as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-1352
 DESIGNED: June 2016
 SEALED: 7/5/2016
 REVISED:

Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared For: **Kimley-Horn**

PLANS PREPARED IN THE OFFICE OF:
Kimley-Horn
 NC License #F-0102
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601
 (919) 617-2000

SR 1107 (Fisher Road) at McKinnon Farm Road

Division 6 Cumberland County Fayetteville

PLAN DATE: July 2016 REVIEWED BY: SL Phillips

PREPARED BY: SP Pennington REVIEWED BY: KB Baumann

REVISIONS INIT. DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 STACIE L. PHILLIPS
 032607
 9/16/2016
 SIG. INVENTORY NO. 06-1352

9/16/2016 K:\REAL_T\10K_S\IGNALS\4011036345_Foyetteville_Electr\Coals\654 - Signal_Design\4th_Submit\Final\2541_061352-2016e.dgn Susan_Pennington