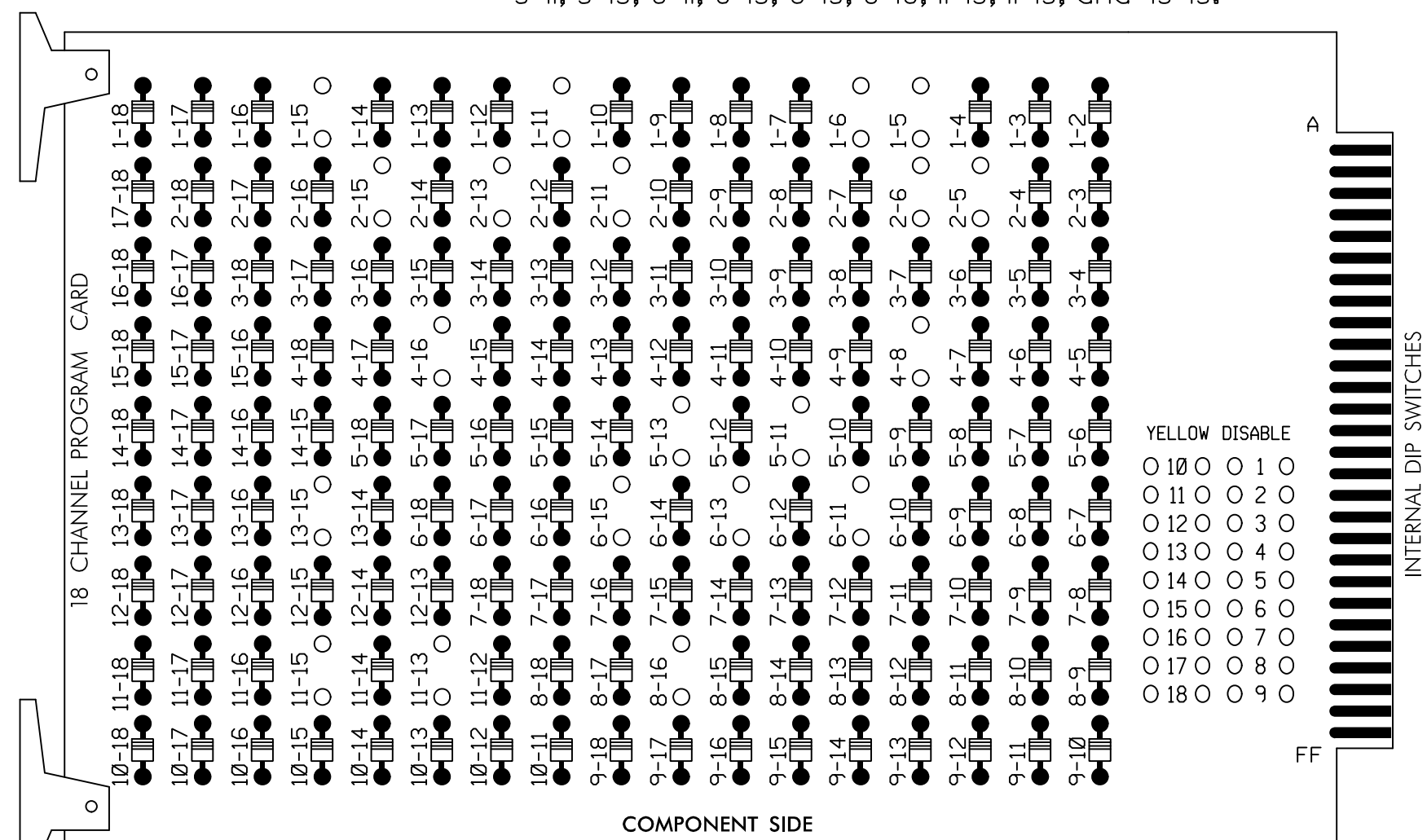


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-11, 1-15, 2-5, 2-6, 2-11, 2-13, 2-15, 4-8, 4-16, 5-11, 5-13, 6-11, 6-13, 6-15, 8-16, 11-13, 11-15, and 13-15.



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.

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.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2, 6 and 8 for 'STARTUP PED CALL'.
- Program phases 2 and 6 for Yellow Flash.
- The cabinet and controller are part of the Asheville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS..18 (12-STD, 6-AUX)
 LOAD SWITCHES USED.....S1,S2,S3,S5,S7,S8,S9,S11,
 S12,AUX S4
 PHASES USED.....1,2,PED,4,5,6,PED,8,8PED
 OVERLAP A.....NONE
 OVERLAP B.....NONE
 OVERLAP C.....5+6
 OVERLAP D.....NONE

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	21,22	P21, P22	NU	41,42	NU	42	51	61,62	P61, P62	NU	81,82	P81, P82	NU	NU	51	NU	NU
RED		128		101			*	134			107							
YELLOW		129		102				135			108							
GREEN		130		103				136			109							
RED ARROW	125																	A114
YELLOW ARROW	126						132											A115
FLASHING YELLOW ARROW																		A116
GREEN ARROW	127						133	133										
Hand				113						119								
Person				115						121								

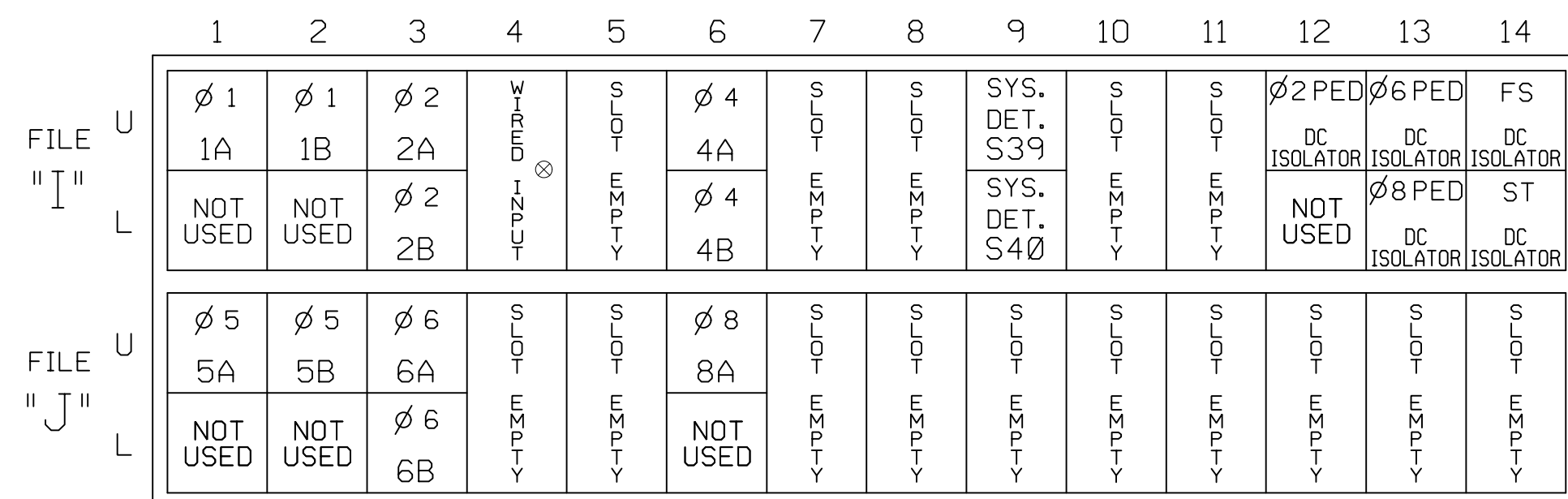
NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail below.

INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

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	-	-	-
2A	TB2-9,10	I3U	63	25	32	2	Y	Y	-	-	-
2B	TB2-11,12	I3L	76	38	42	2	Y	Y	-	-	-
4A	TB4-9,10	I6U	41	3	4	4	Y	Y	-	-	3
4B	TB4-11,12	I6L	45	7	14	4	Y	Y	-	-	-
*S39	TB6-9,10	I9U	60	22	11	SYS	-	-	-	-	-
*S40	TB6-11,12	I9L	62	24	13	SYS	-	-	-	-	-
5A ¹	TB3-1,2	J1U	55	17	5	5	Y	Y	-	-	15
	-	I4U	47	9	22	2	Y	Y	Y	-	3
5B	TB3-5,6	J2U	40	2	6	5	Y	Y	-	-	15
6A	TB3-9,10	J3U	64	26	36	6	Y	Y	-	-	-
6B	TB3-11,12	J3L	77	39	46	6	Y	Y	-	-	-
8A	TB5-9,10	J6U	42	4	8	8	Y	Y	-	-	3
PED PUSH BUTTONS											
P21,P22	TB8-4,6	I12U	67	29		PED 2	2 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				

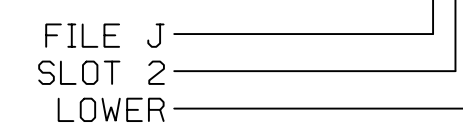
NOTE:

INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

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

* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

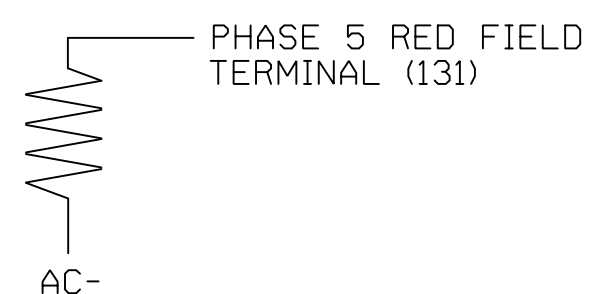
INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



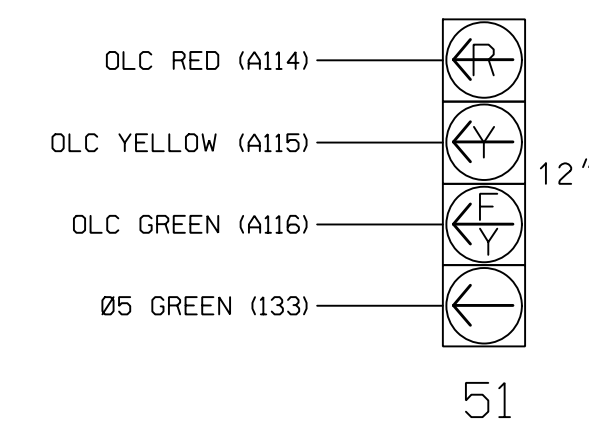
NC Dept of Transportation
 Division of Highways
 Final Drawing Date: 7/10/2018
 R. N. Lizon
 ITS & Signals Unit

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 14-0048
 DESIGNED: JULY 2018
 SEALED: 7/10/2018
 REVISED:



4 SECTION FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

1. The sequence display for signal head 51 requires special logic programming. See sheet 2 of 2 for programming instructions.

This plan supersedes the one signed and sealed on 2/15/2017.

SIGNAL UPGRADE - ELECTRICAL DETAIL SHEET 1 OF 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 25 (Hendersonville Road)

at

SR 1547 (Old Airport Road) / Ingles Market Entrance



750 N. Greenfield Pkwy, Garner, NC 27529

Division 14 Henderson County Fletcher

PLAN DATE: July 2018 REVIEWED BY: R Dubnicka

PREPARED BY: J Trueblood REVIEWED BY: J Carroll

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 030005
 JUSTIN T. CARROLL
 DocuSigned by Justin T. Carroll
 7/10/2018
 SIGNATURE DATE
 SIG. INVENTORY NO. 14-0048