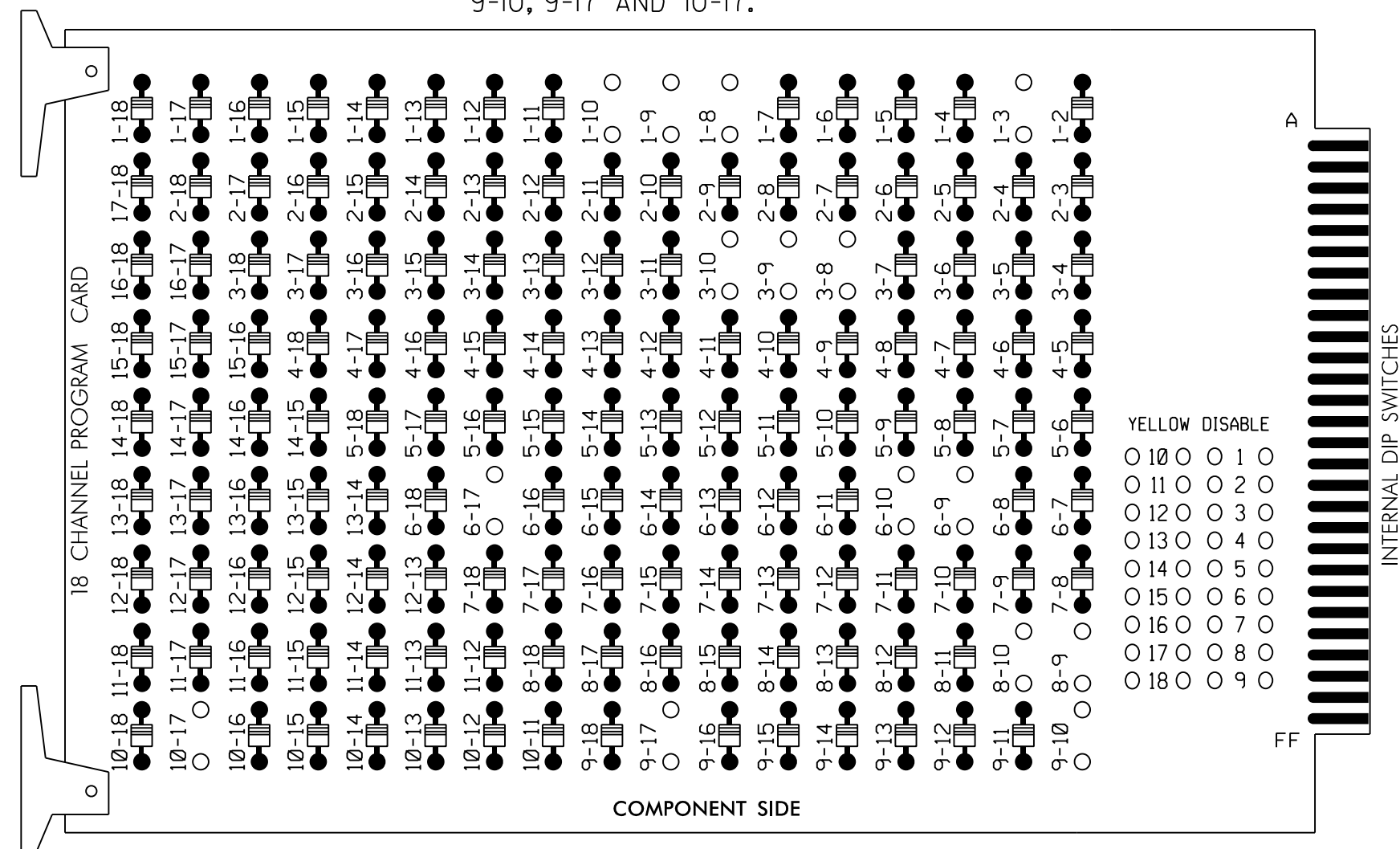


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-3, 1-8, 1-9, 1-10, 3-8, 3-9, 3-10, 6-9, 6-10, 6-17, 8-9, 8-10, 9-10, 9-17 AND 10-17.



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. part 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.
- Enable Simultaneous Gap-Out for all Phases.
- Program phase 6 for Variable Initial and Gap Reduction.
- Program phase 6 for Startup In Green.
- Program phase 6 for Yellow Flash.

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET.....332 w/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S4,S8,S11,AUX S1,AUX S2
 AUX S3
 PHASES USED.....3,6,8
 OVERLAP "A".....3+6
 OVERLAP "B".....3+6
 OVERLAP "C".....NOT USED
 OVERLAP "D".....NOT USED
 OVERLAP "E".....6
 OVERLAP "G".....3

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	OLG	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	OLE	OLC	OLD	SPARE
SIGNAL HEAD NO.	32	NU	NU	31	NU	NU	NU	61	62	NU	NU	81,82,83	NU	32	31	63	NU	NU
RED								134	134			107				A111		
YELLOW	*			*				135	135									
GREEN								136										
RED ARROW															A121	A124		
YELLOW ARROW												108			A122	A125	A112	
FLASHING YELLOW ARROW															A123	A126	A113	
GREEN ARROW	127			118				136				109						

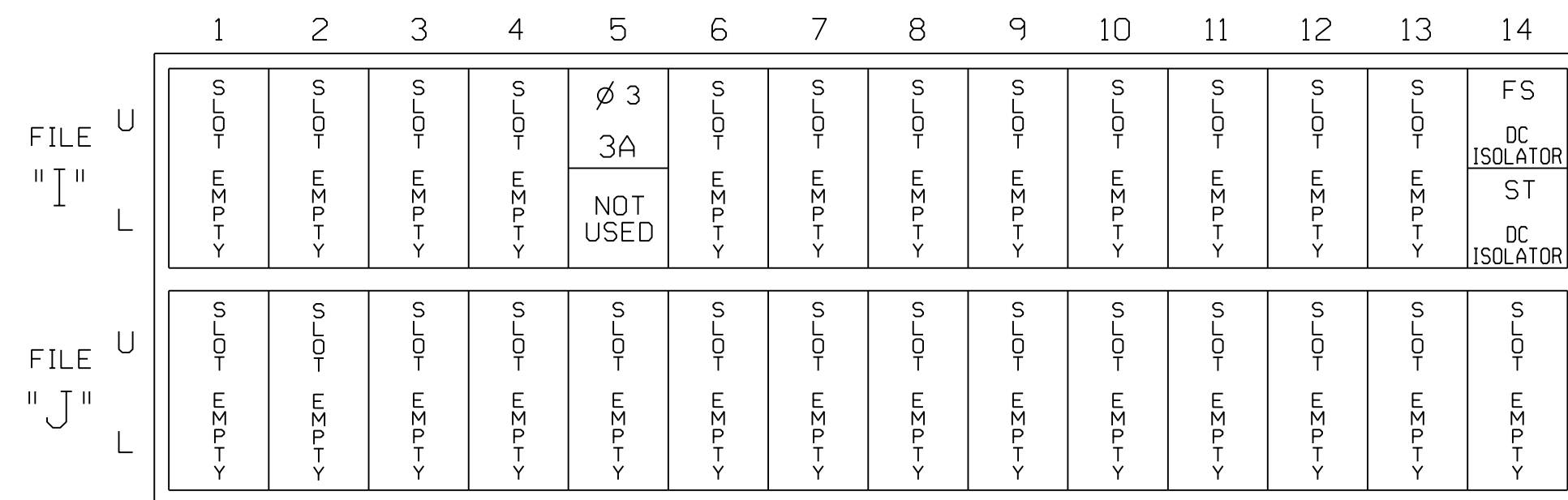
NU = Not Used

* 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)



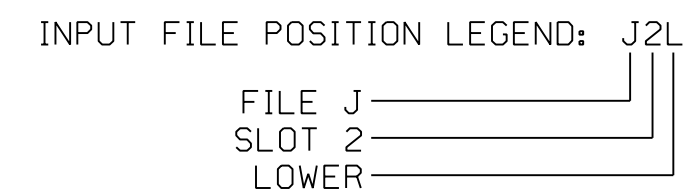
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

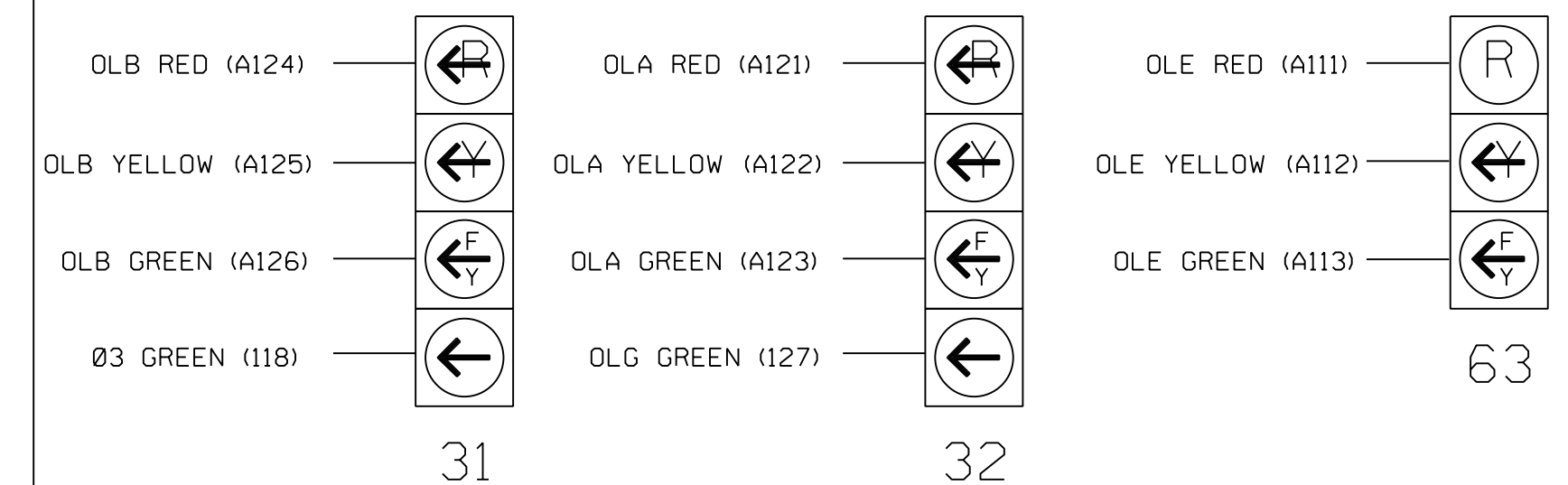
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
3A	TB4-5,6	15U	58	20	3	3	Y	Y			15
	-	15U	58	20*	3	3	Y	Y			

* See Input Assignment Programming Details for Alternate Phasing on sheet 4.



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

The sequence display for Signals 31 and 32 require special logic programming. See sheet 2 for programming instructions.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0975T
 DESIGNED: February 2024
 SEALED: February 12, 2024
 REVISED:

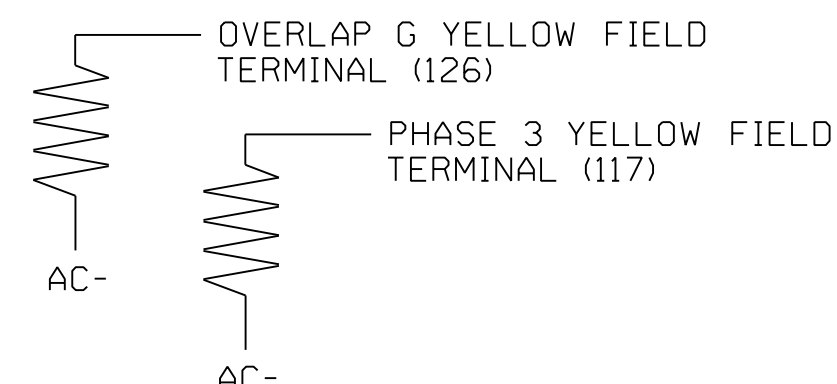
SPECIAL DETECTOR NOTE

Install a video detection system for vehicle detection for zones 3A, 6A and 8A. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

For Detection Zone 3A, the equipment placement and slots are typical for a NCDOT installation. Inputs associated with these slots are compatible with time of day instructions located on sheets 2, 3 and 4.

LOAD RESISTOR INSTALLATION DETAIL

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



New Installation - Temporary Design (TMP Phase III Step 5)
 Electrical Detail - Sheet 1 of 5

US 158 WB (Reidsville Rd.) at SR 2396 (Old Belevs Creek Rd.)

Division 9 Forsyth County Winston-Salem

PLAN DATE: February 2024 REVIEWED BY: DT Sears

PREPARED BY: WP Erickson-Jones REVIEWED BY:

REVISIONS: INIT. DATE

Porter Jones 2/12/2024

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER PORTER JONES

SIG. INVENTORY NO. 09-0975T

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Prepared for the Offices of:

Seal of the State of North Carolina
 Department of Transportation
 Signal Management Section

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