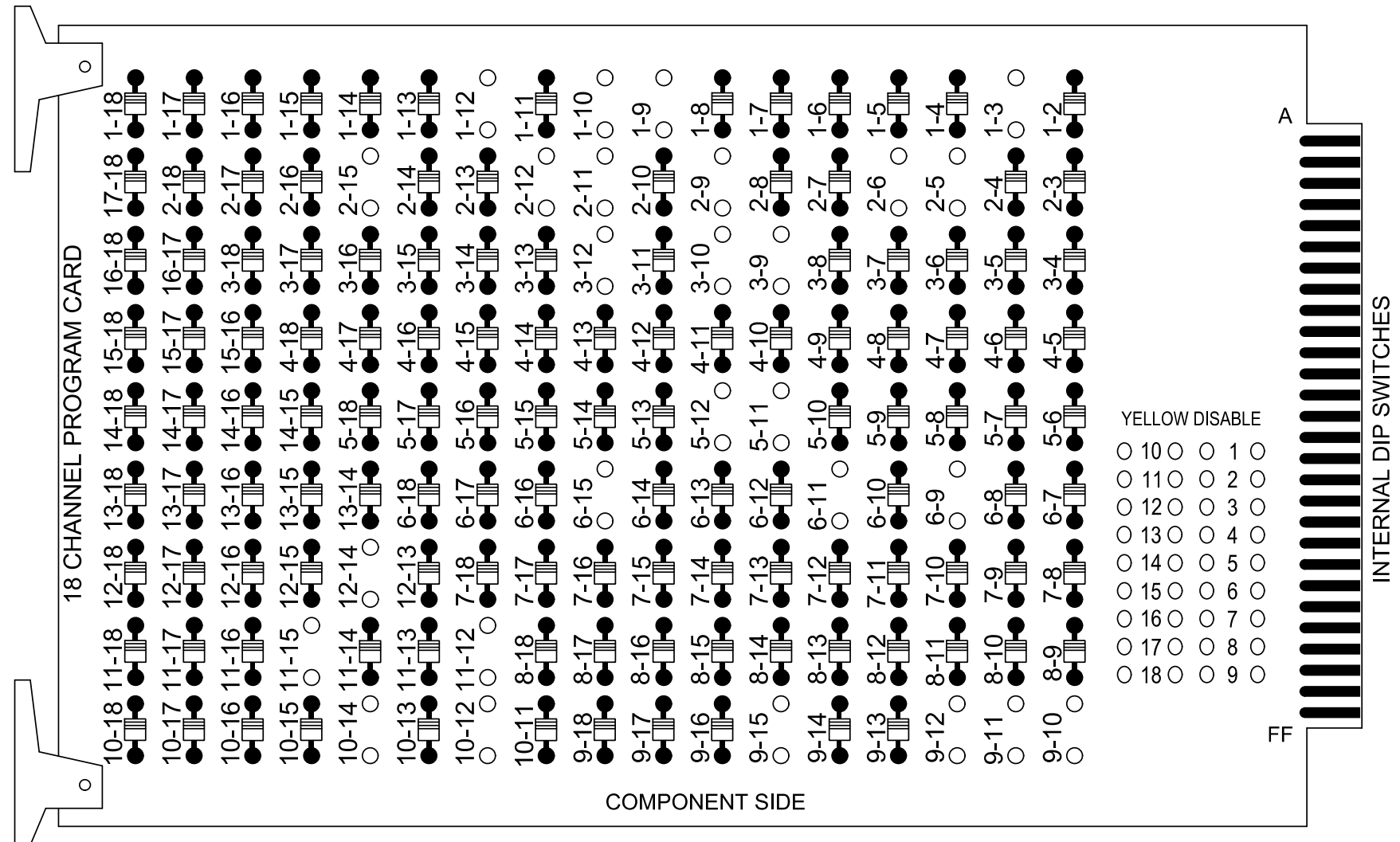


18 CHANNEL CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-3, 1-9, 1-10, 1-12, 2-5, 2-6, 2-9, 2-11, 2-12, 2-15, 3-9, 3-10, 3-12, 5-11, 5-12, 6-9, 6-11, 6-15, 9-10, 9-11, 9-12, 9-15, 10-12, 10-14, 11-12, 11-15, AND 12-14.



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 the 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 plan.
- Program controller to start up in phase 2 Green No Walk and phase 6 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

EQUIPMENT INFORMATION

Controller.....2070LX
Cabinet.....332 w/ Aux
Software.....Q-Free MAXTIME
Cabinet Mount.....Base
Output File Positions.....18 With Aux. Output File
Load Switches Used.....S1, S2, S4, S6, S7, S8, S9,
AUX S1, AUX S2, AUX S4, AUX S5
Phases Used.....2, 3, **4, 4PED, 5, 6, 6PED
Overlap "1".....*
Overlap "2".....*
Overlap "3".....*
Overlap "4".....*
Overlap "7".....*
*See overlap programming detail on sheet 2
** Used for timing purposes only

PROJECT REFERENCE NO.	SHEET NO.
U-6005	Sig. 2.1

SIGNAL HEAD HOOK-UP CHART

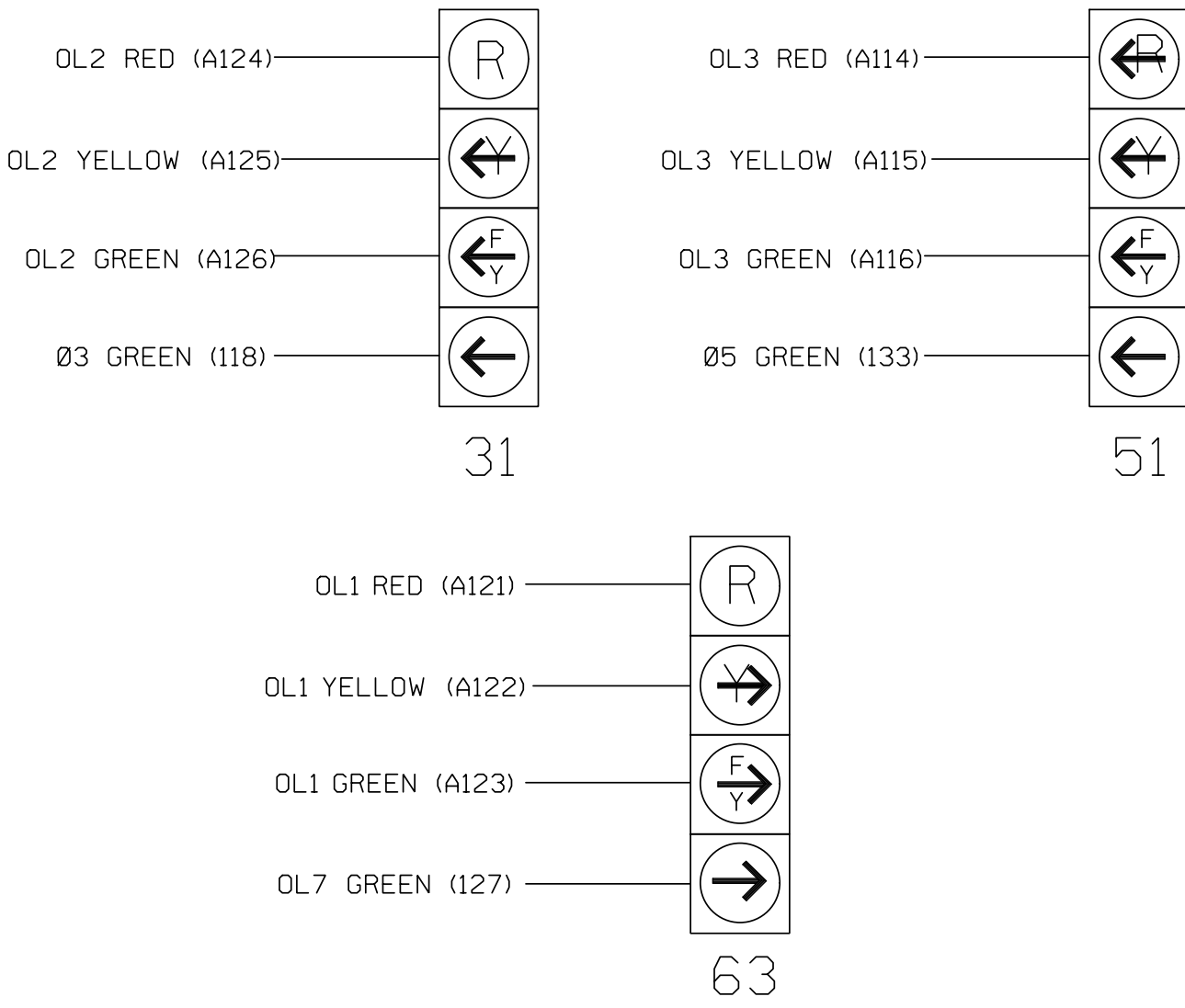
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	OL7	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	63	21,22	NU	31	NC	P41, P42	51	61,62	P61, P62	NU	NU	NU	63	31	NU	51	32	NU
RED		128						134					A121	A124			A101	
YELLOW	*	129		*			*	135										
GREEN		130						136										
RED ARROW																A114		
YELLOW ARROW													A122	A125		A115	A102	
FLASHING YELLOW ARROW													A123	A126		A116		
GREEN ARROW	127			118			133										A103	
Hand						104			119									
Ped						106			121									

NU = Not Used
NC = Not Connected

* Denotes install load resistor. See load resistor installation detail this sheet.
* See pictorial of head wiring in detail this sheet.

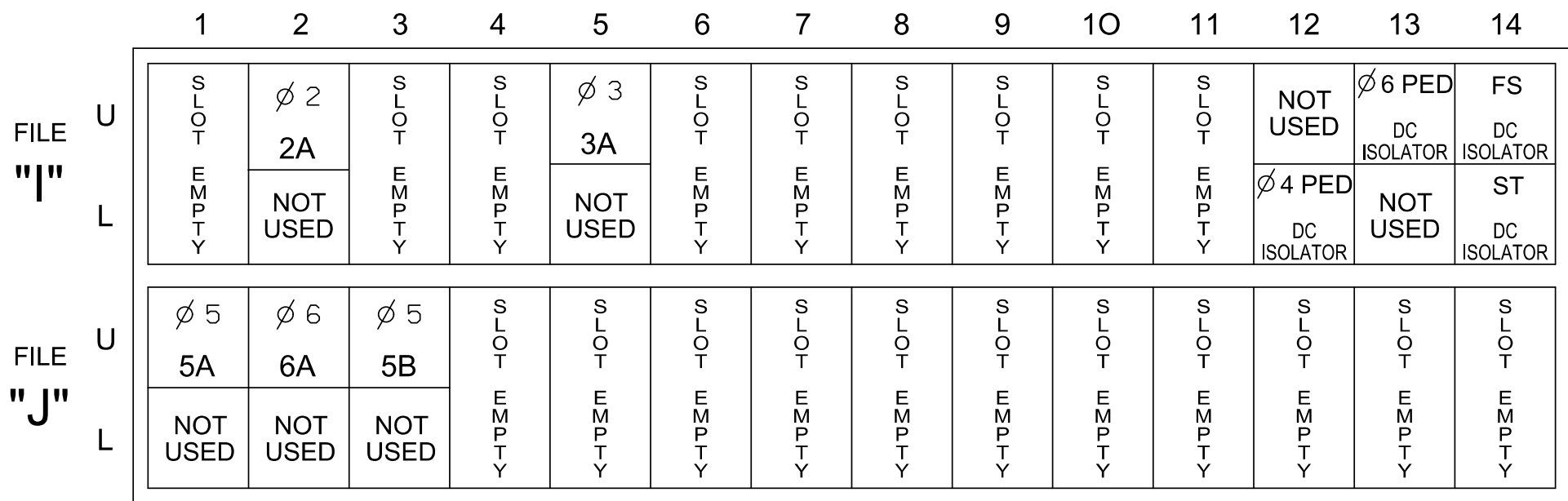
4 SECTION FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)



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

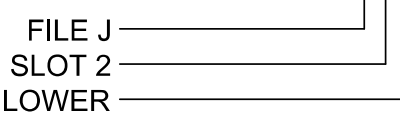
FS = FLASH SENSE
ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
2A	TB2-5.6	I2U	39	1	2	2				X	X	
3A	TB4-5.6	I5U	58	20	7	3				X	X	
5A	TB3-1.2	J1U	55	17	15	5	15		X		X	
5B	TB3-9,10	J3U	64	-	31	2	3		X		X	X
6A	TB3-5.6	J2U	40	2	16	6			X	X	X	
PED PUSH BUTTONS												
P41,P42	TB8-5.6	I12L	69	35	4	PED 4						
P61,P62	TB8-7.9	I13U	68	34	6	PED 6						

NOTE:
INSTALL DC ISOLATORS
IN INPUT FILE SLOTS
I12 AND I13.

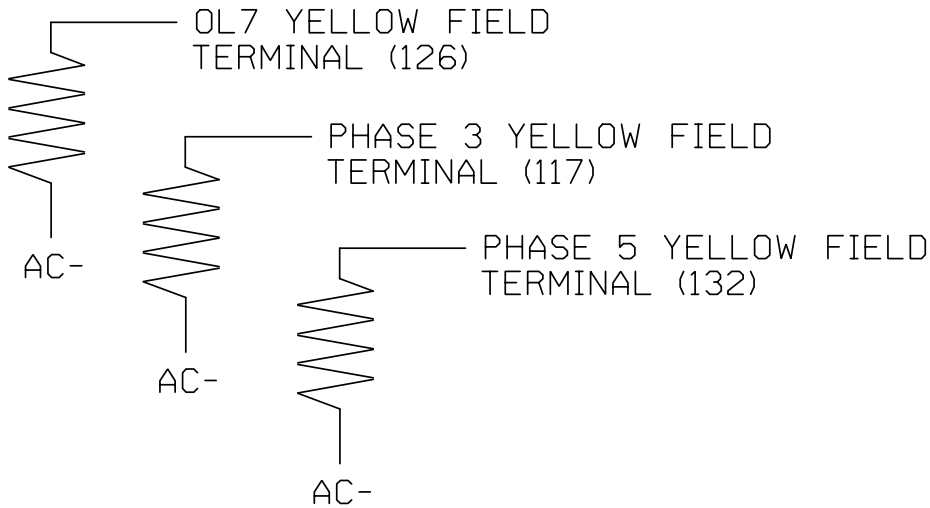
INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

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



COUNTDOWN PEDESTRIAN SIGNAL OPERATION

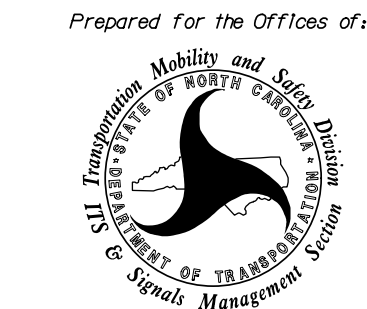
Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.



STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
(704) 372-1885
NC License Number F-0991

ELECTRICAL DETAIL SHEET 1 OF 2

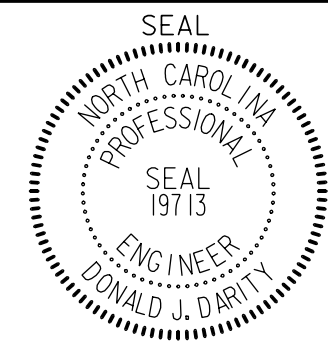
ELECTRICAL AND PROGRAMMING
DETAILS FOR:



NC 65 (Bethania-Rural Hall Rd)
at
SR 3983 (Northridge Park Drive)

Division 9	Forsyth County	Rural Hall
PLAN DATE: Sept 2023	REVIEWED BY: D.J. Darity	
PREPARED BY: R.L. Aristondo	REVIEWED BY: H.M. Surti	
REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



DocuSigned by:
Donald J. Darity 9/27/2023
DATE
SIG. INVENTORY NO. 09-1239