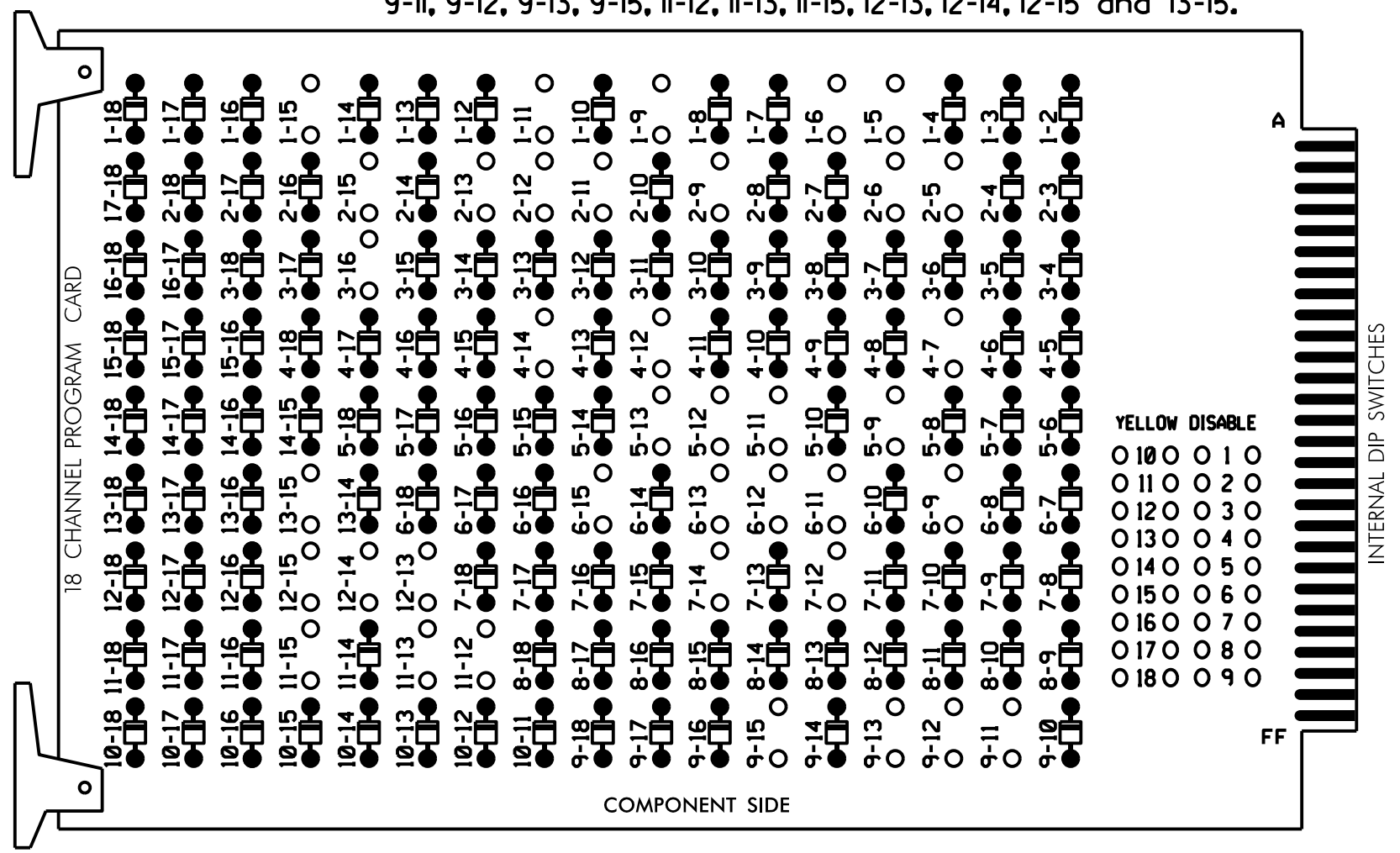


18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-12, 2-13, 2-15, 3-16, 4-7, 4-12, 4-14, 5-9, 5-11, 5-12, 5-13, 6-9, 6-11, 6-12, 6-13, 6-15, 7-12, 7-14, 9-11, 9-12, 9-13, 9-15, 11-12, 11-13, 11-15, 12-13, 12-14, 12-15 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.
- Integrate monitor with Ethernet network in cabinet.

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 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 enabled detectors.
- The cabinet and controller are part of the Old Hollow Road Closed Loop System. Signal System #: D09-29_Walkertown

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,S3,S4,S5,S6,S7,S8,S9,S10,S12,AUX S1,AUX S4,AUX S5
 PHASES USED.....1,2,2PED,3,3PED,4,4PED,5,6,6PED
 OVERLAP "1".....*
 OVERLAP "2".....NOT USED
 OVERLAP "3".....*
 OVERLAP "4".....*
 OVERLAP "7".....*
 * See overlap programming detail on sheet 2.

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	OL7	8	*3 PED	OL1	OL2	SPARE	OL3	OL4	SPARE			
SIGNAL HEAD NO.	11	21,22	P21, P22	31	32,33	41	42,43	P41, P42	51	61,62	P61, P62	23	NU	P31, P32	11	NU	NU	51	23		
RED		128		116	116	101	101			134									A101		
YELLOW	*	129		117	117	102	102		*	135		*									
GREEN		130		118	118	103	103			136											
RED ARROW																			A121	A114	
YELLOW ARROW																			A122	A115	A102
FLASHING YELLOW ARROW																			A123	A116	A103
GREEN ARROW	127			118	103		133			124											
Hand				113			104			119			110								
Walking				115			106			121			112								

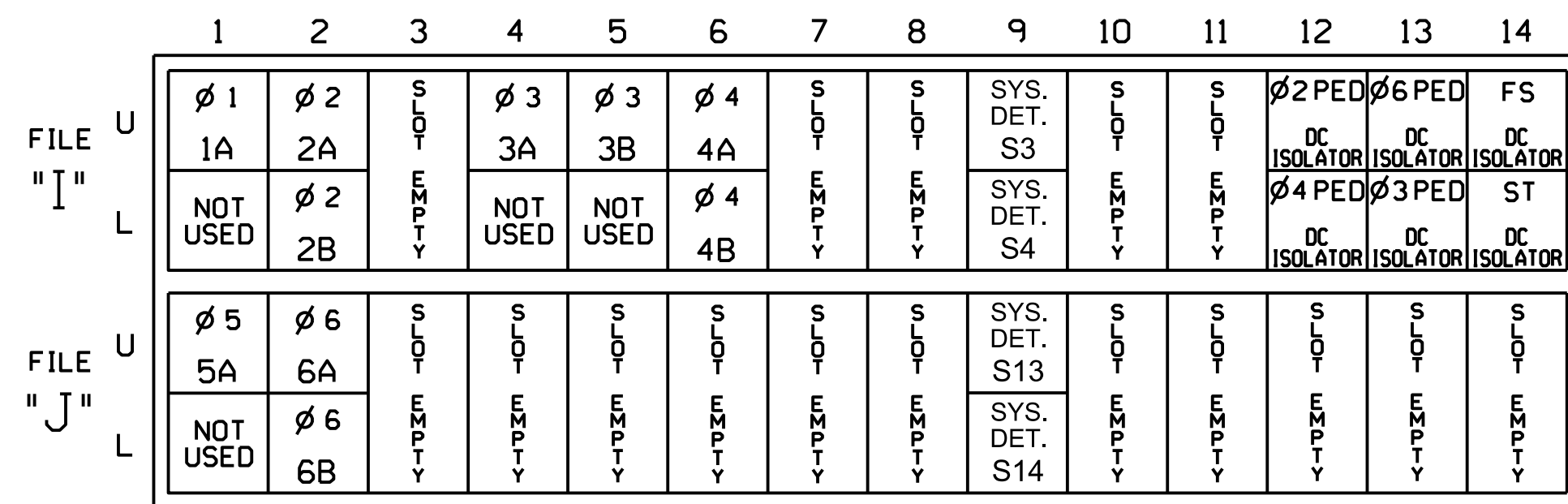
NU = Not Used

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

** Load switch must be reassigned from phase 8 Ped to phase 3 Ped. See sheet 3.
 * 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

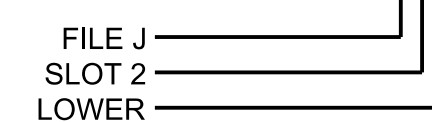
INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A	TB2-1,2	I1U	56	18	1	★	1	15.0		X	X	
2A	TB2-5,6	I2U	39	1	2	★	6	3.0		X	X	X
2B	TB2-7,8	I2L	43	5	3	2			X	X	X	
3A	TB4-1,2	I4U	47	9	6	3	3.0		X	X	X	
3B	TB4-5,6	I5U	58	20	7	3	10.0		X	X	X	
4A	TB4-9,10	I6U	41	3	8	4			X	X	X	
4B	TB4-11,12	I6L	45	7	9	4	10.0		X	X	X	
5A	TB3-1,2	J1U	55	17	15	★	5	15.0		X	X	
6A	TB3-5,6	J2U	40	2	16	6			X	X	X	
6B	TB3-7,8	J2L	44	6	17	6			X	X	X	
* S3	TB6-9,10	I9U	60	22	13	SYS						
* S4	TB6-11,12	I9L	62	24	14	SYS						
* S13	TB7-9,10	J9U	59	21	27	SYS						
* S14	TB7-11,12	J9L	61	23	28	SYS						
PED PUSH BUTTONS												
P21,P22	TB8-4,6	I12U	67	33	2	PED 2						
P31,P32	TB8-8,9	I13L	70	36	8	PED 3						
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.

* System detector only. Remove any assigned vehicle phase.
 * For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on Sheet 2.

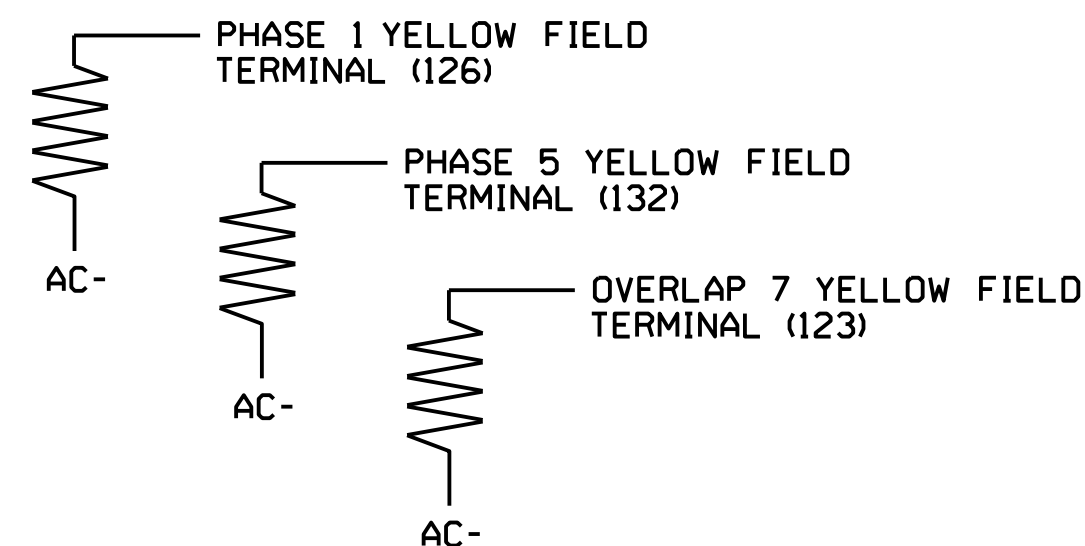
INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

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

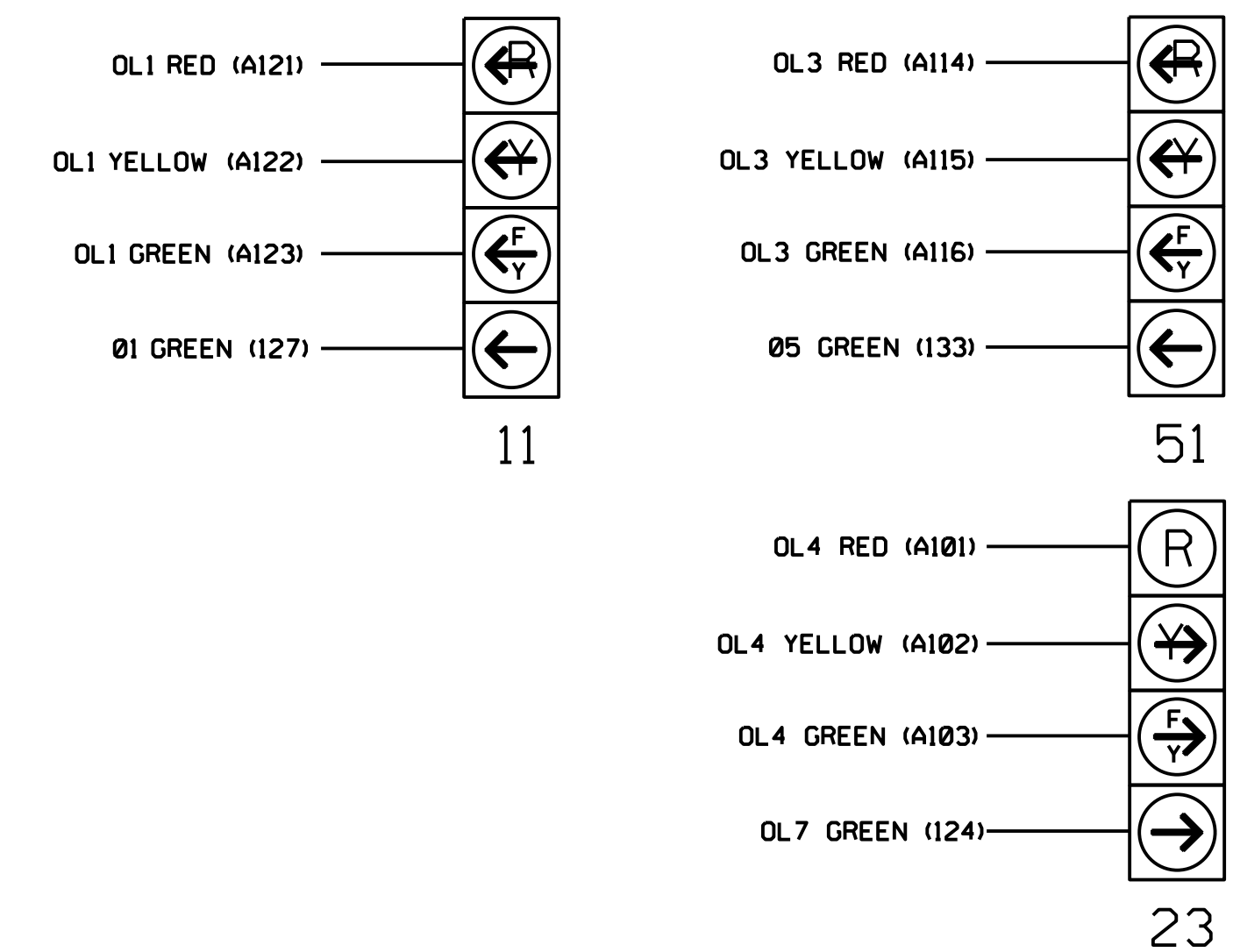


COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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.

FYA SIGNAL WIRING DETAIL

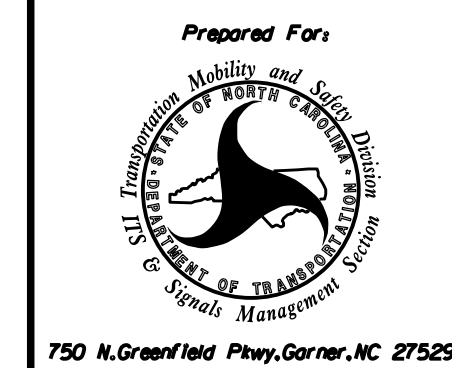
(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0589
 DESIGNED: August 2023
 SEALED: 9/7/2023
 REVISED: N/A

Electrical Detail - Final Design - Sheet 1 of 3

ELECTRICAL AND PROGRAMMING DETAILS FOR:



Prepared in the Office of:



NC FIRM LICENSE No: P-0339
 504 Meadowlands Drive
 Hillsborough, NC 27278
 (919) 732-3883
 (919) 732-6676 (FAX)



NC 66 (Old Hollow Road) at SR 2004 (Main Street) / Centre Stage Shopping Center
 Division 9 Forsyth County Walkertown

PLAN DATE: August 2023 REVIEWED BY: E. Sirgany
 PREPARED BY: J. Smith REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 018174
 EDWARD W. SIRGANY
 ENGINEER
 750 N. Greenfield Pkwy, Corner, NC 27529
 9/7/2023
 DATE
 SIG. INVENTORY NO. 09-0589