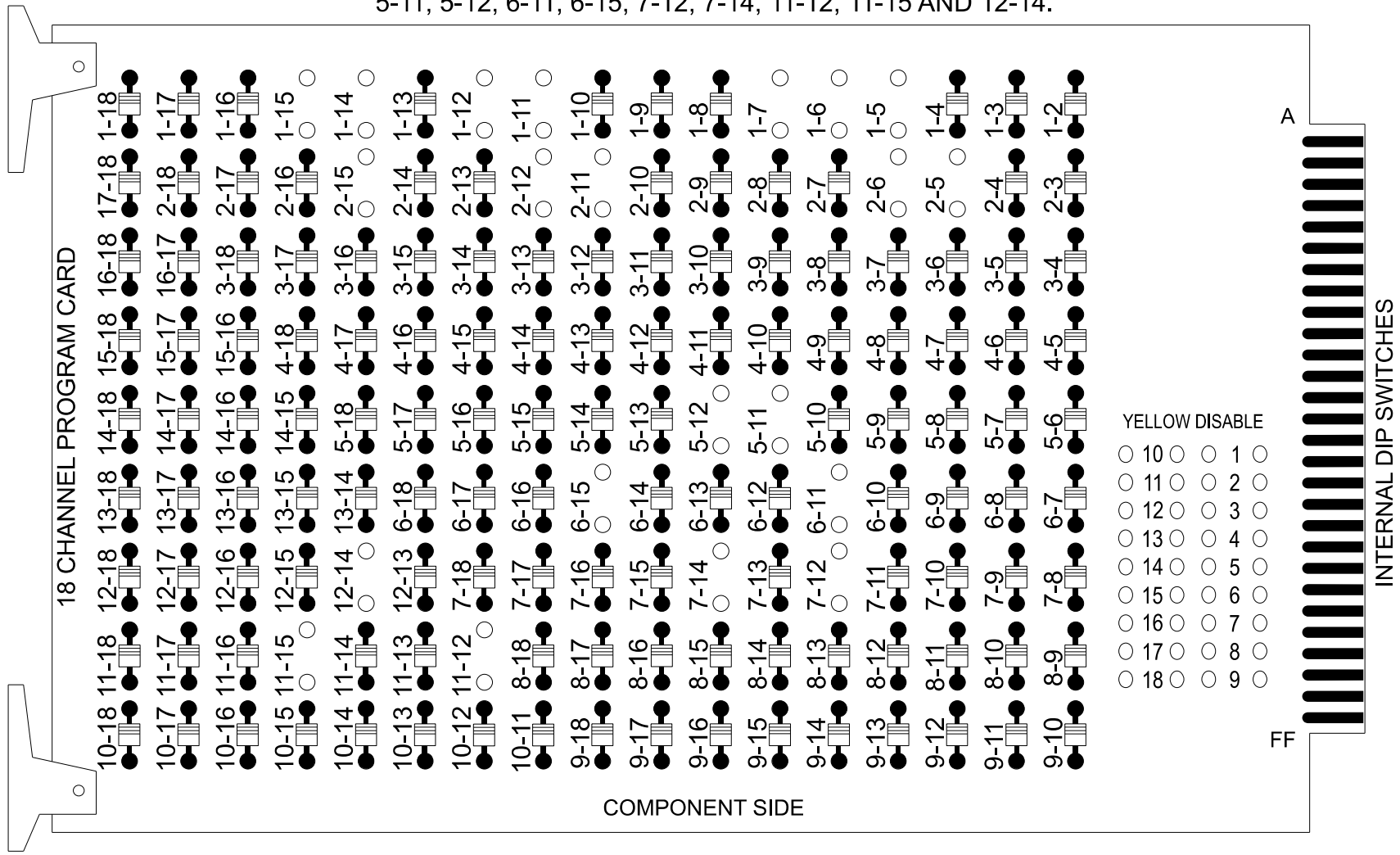


25-AUG-2025, 12:22
D:\c:\pwworkspace\1-HDR_US_East_01\Documents\NCDOT\NCDOT_Western\01_v_Dn-Coi_L_M\NCDOT_L6170_R5600_NC170_US23BUS\6_0_CAD_BIM\6_2_Work_Ln_Progress\R-5600_NCDOT_File_Structure\FrOffr/c/SIGNAL/Management/14-039775_sm.ele_2024mcd.dgn
K:\ones AT CHA-K JONES

18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

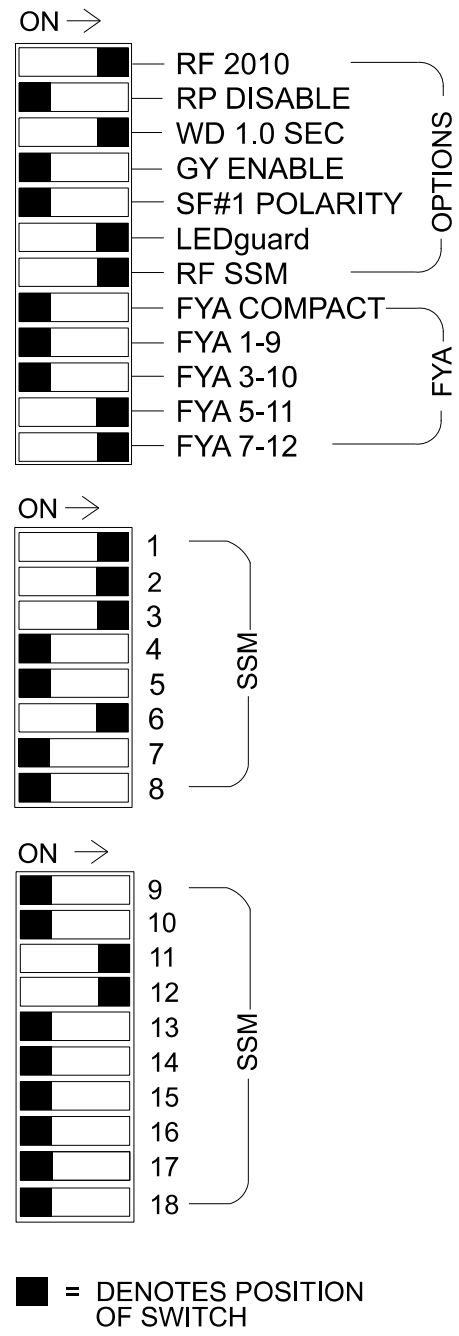
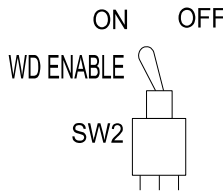
REMOVE DIODE JUMPERS 1-5, 1-6, 1-7, 1-11, 1-12, 1-14, 1-15, 2-5, 2-6, 2-11, 2-12, 2-15, 5-11, 5-12, 6-11, 6-15, 7-12, 7-14, 11-12, 11-15 AND 12-14.



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.
- Integrate monitor with Ethernet network in cabinet.



NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all 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 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.
- The cabinet and controller are part of the NC 107 Time Based System.

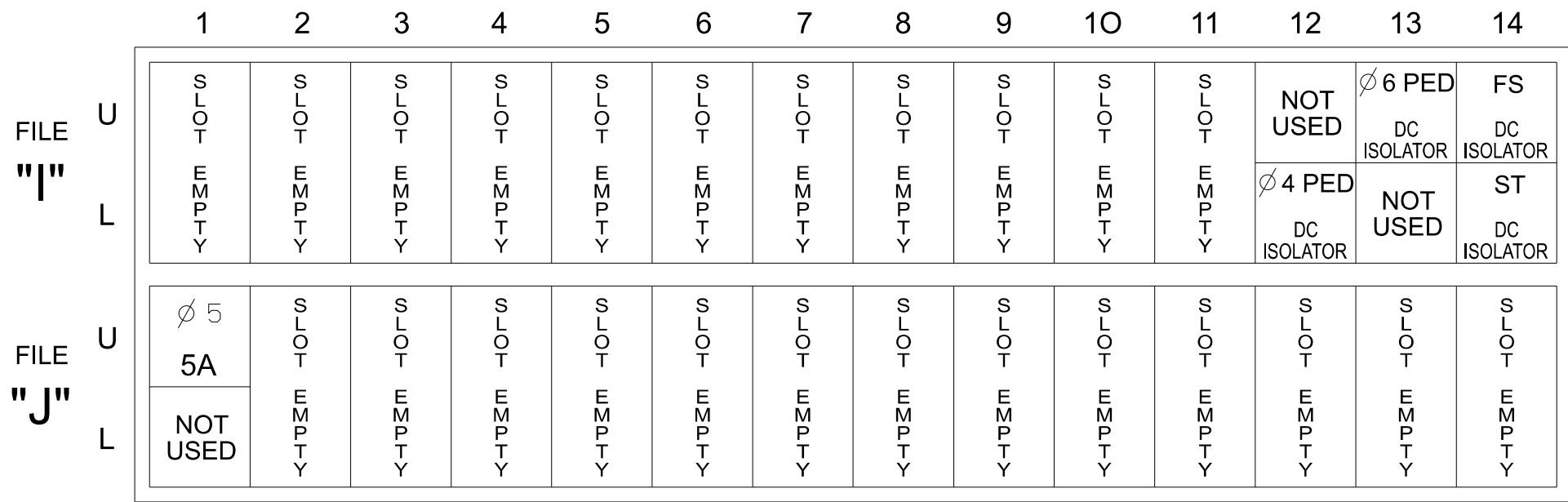
EQUIPMENT INFORMATION

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, S10, AUX S4, AUX S5
Phases Used.....1, 2, 3, 4, 4PED, 5, 6, 6PED
Overlap "1".....NOT USED
Overlap "2".....NOT USED
Overlap "3".....*
Overlap "4".....*
Overlap "5".....NOT USED
Overlap "6".....NOT USED
Overlap "7".....*
Overlap "8".....*

*See overlap programming detail on sheet 2.

INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
ST = STOP TIME

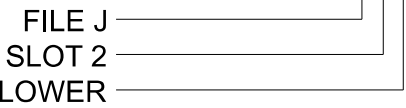
Note: For Detection Zone 5A the equipment and slots reserved are typical for a NCDOT Installation.

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
5A	TB3-1,2	J1U	55	17	15	5	15.0				X	
				-	31	2	-		X		X	
PED PUSH BUTTONS P41,P42	TB8-5,6	I12L	69	35	4	PED 4						
P61,P62 P63,P64	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



SPECIAL DETECTOR NOTE

- Install a multi-zone microwave detection system for vehicle detection. 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 zone 5A, detector card placement is typical for a NCDOT Installation. Detectors associated with these slots are compatible with the Vehicle Detector Programming Detail located on sheet 2 of this electrical detail.

Plans Prepared By:



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	OL8	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	11	34	22,23	NU	31	32	34	NC	P41, P42	51★	61,62	P61,P62 P63,P64	41,42★	NU	NU	NU	51★	41,42★
RED			128		116	116				134								
YELLOW			129		117	117				★	135		★					
GREEN			130		118	118				136								
RED ARROW	125				116											A114	A101	
YELLOW ARROW	126	126			117											A115	A102	
FLASHING YELLOW ARROW																A116	A103	
GREEN ARROW	127	127			118	118				133		124						
Hand									104			119						
Walking									106			121						

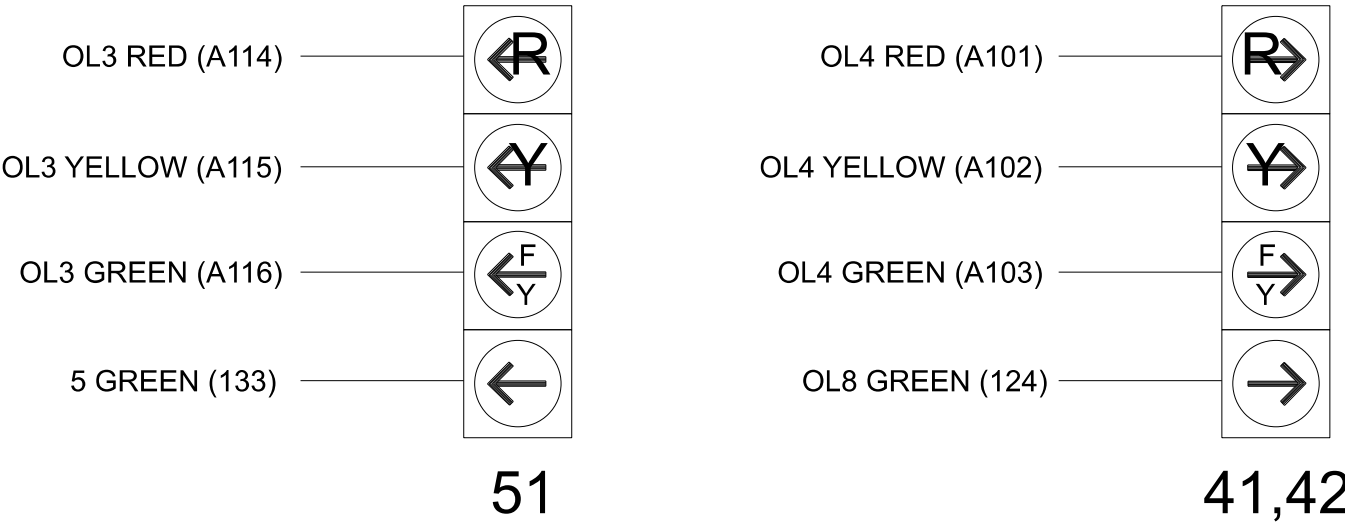
NU = Not Used

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

★ See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 14-039775
DESIGNED: Aug 2025
SEALED: 8/26/2025
REVISED: N/A

Electrical Detail - Sheet 1 of 2
Temporary Design 5 - TMP Ph2, S2

Electrical and Programming Details For:	US 23 Bus./NC 107 (E. Main Street) at US 23 Bus. (Asheville Hwy)/ SR 1355 (Sunrise Park)	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
	Division 14 Jackson County Sylva PLAN DATE: August 2025 REVIEWED BY: ZM Esposito PREPARED BY: DJ White REVIEWED BY: BN Groome REVISIONS INIT. DATE	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 052936 BRITTANY N GROOME Signed by: Brittany Groome 8/26/2025 1E05340E10B484...
750 N. Greenfield Pkwy, Garner, NC 27529		SIG. INVENTORY NO. 14-039775