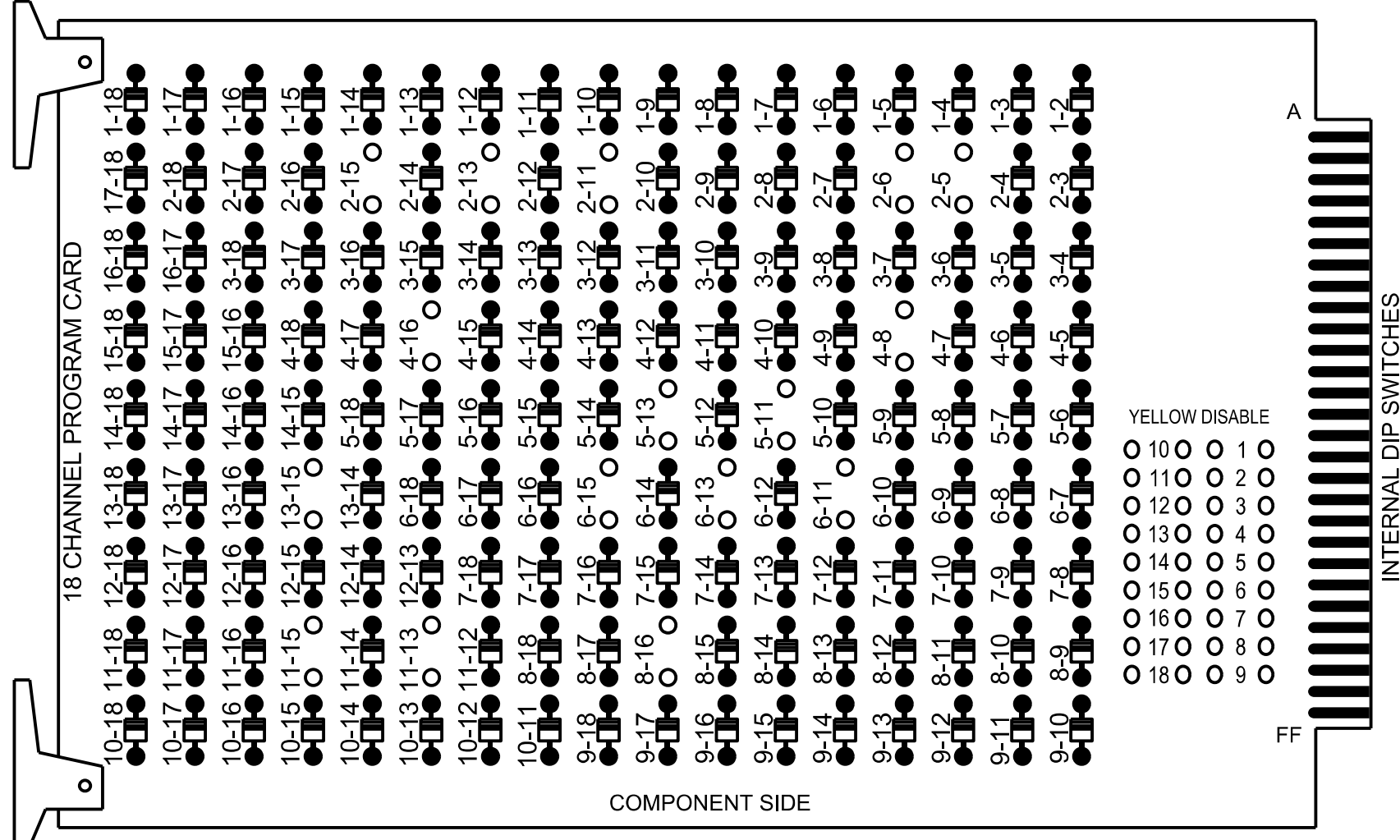


18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 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 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 phases 4 and 8 for Dual Entry and Simultaneous Start.
- 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 D13-22 Asheville System.

EQUIPMENT INFORMATION

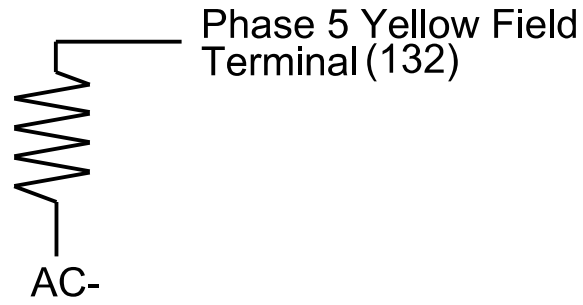
Controller.....2070LX
Cabinet.....332 w/ Aux
Software.....Q-Free MAXTIME
Cabinet Mount.....Base
Output File Positions.....18 With Aux. Output File
Load Switches Used.....S2, S3, S5, S7, S8, S9, S11, S12, AUX S4
Phases Used.....2, 2PED, 4, 5, 6, 6PED, 8, 8PED
Overlap "1".....NOT USED
Overlap "2".....NOT USED
Overlap "3".....*
Overlap "4".....NOT USED

*See overlap programming detail on sheet 2.

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown)

ACCEPTABLE VALUES	
Value (ohms)	Wattage
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



MAXTIME STARTUP AND SOFTWARE FLASH
PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Unit

Web Interface
Home >Controller >Unit

Modify parameters as shown below and save changes.

Start Up Parameters
StartUp Clearance Hold
6

Unit Flash Parameters
All Red Flash Exit Time
6

NOTE: IF PRESENT, REMOVE EXISTING BACKUP PREVENTION PROGRAMMING.

BACKUP PREVENTION
PROGRAMMING

Front Panel
Main Menu >Controller >Sequence & Phs Config >Backup Prevention > Backup Protection Plan

Web Interface
Home >Controller> Backup Prevention >Backup Protection Plan

Sequence 1

No Backup Phase	1	2	3	4	5	6	7	8
Serve Phase 1	*	*	*	*	*	*	*	*
Serve Phase 2	*	*	*	*	*	*	*	*
Serve Phase 3	*	*	*	*	*	*	*	*
Serve Phase 4	*	*	*	*	*	*	*	*
Serve Phase 5	*	*	*	*	*	*	*	*
Serve Phase 6	*	*	*	*	X	*	*	*
Serve Phase 7	*	*	*	*	*	*	*	*
Serve Phase 8	*	*	*	*	*	*	*	*

THIS PLAN SUPERSEDES THE PLAN
SIGNED AND SEALED ON 02/09/2024.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 13-0218
DESIGNED: May 2026
SEALED: 08/07/2026
REVISED: N/A

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200, Raleigh, NC 27607
Phone: 919-461-1100

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
GMU CHANNEL NO.		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	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21	22	P21, P22	NU	41,42	NU	51	61	62	P61, P62	NU	81,82	P81, P82	NU	NU	51	NU
RED		128	128		101			134	134			107						
YELLOW		129	129		102		*	135	135			108						
GREEN		130			103				136			109						
RED ARROW																A114		
YELLOW ARROW																A115		
FLASHING YELLOW ARROW																A116		
GREEN ARROW			130				133	136										
Hand icon				113						119		110						
Walking person icon				115						121		112						

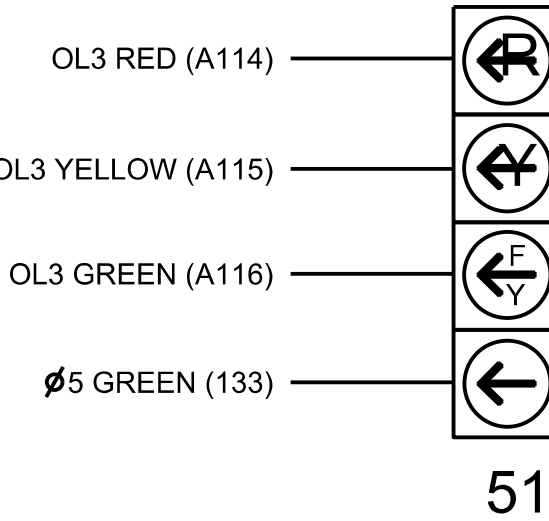
NU = Not Used

* Denotes install load resistor. See LOAD RESISTOR INSTALLATION DETAIL this sheet.

* See pictorial of head wiring in FYA SIGNAL WIRING DETAIL this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



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.

Final (Phase III Step 3)
Electrical Detail - Sheet 1 of 2

Electrical and Programming Details For:	US 19-23 Business / SR 3548 (Haywood Road) at I-26 WB / I-240 EB Ramps	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
Prepared for the Offices of:	Division 13 Buncombe County Asheville	SEAL
Transportation Mobility and Safety Division	PLAN DATE: May 2026 REVIEWED BY: J O Deaton	SEAL 07438
Department of Transportation	PREPARED BY: M W Yalch REVIEWED BY:	ENGINEER JAMES O. DEATON
Signal Management Section	REVISIONS	DocuSigned by: James O. Deaton 8/10/2026
750 N. Greenfield Pkwy, Garner, NC 27529	INIT. DATE	DATE
		SIG. INVENTORY NO. 13-0218