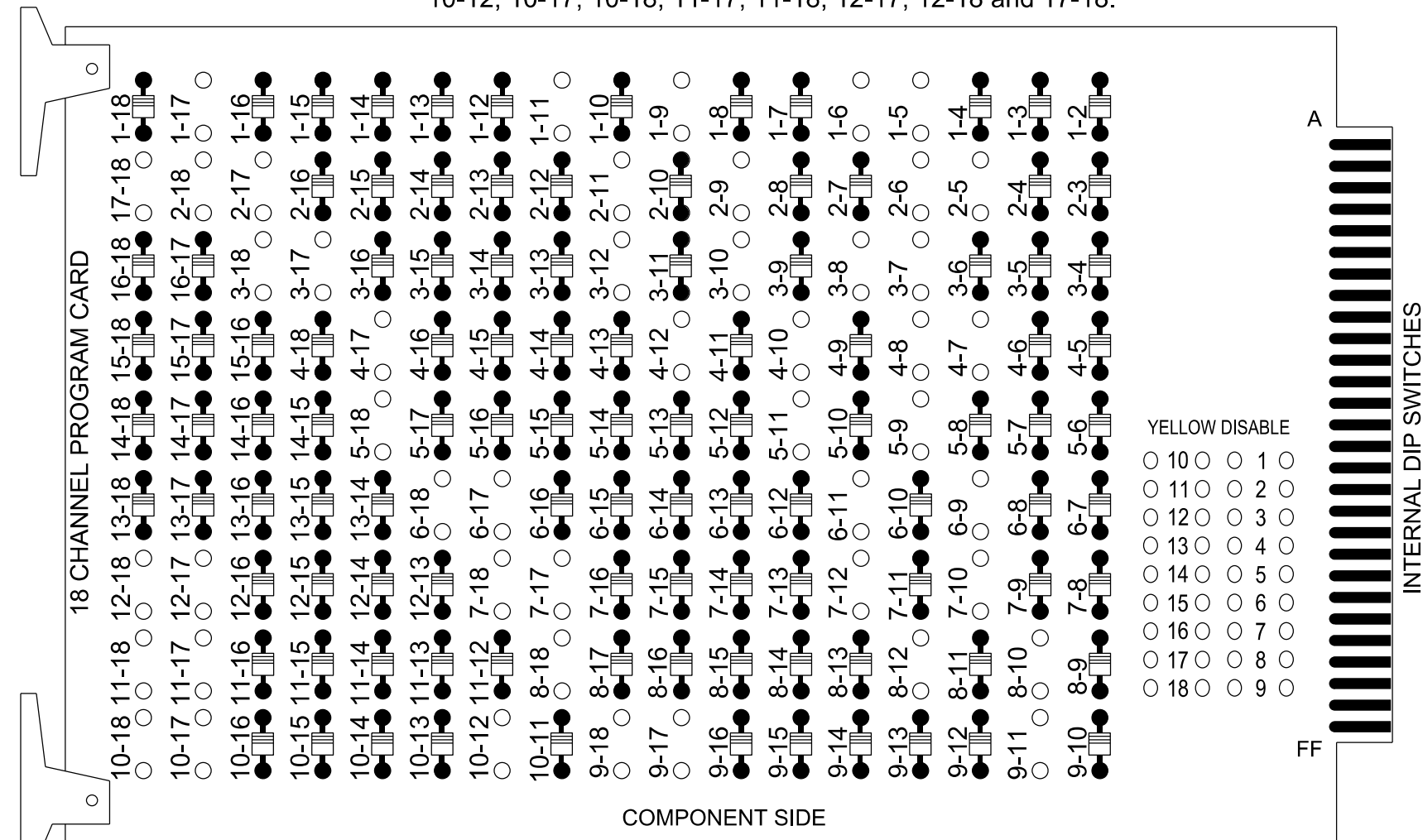


18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

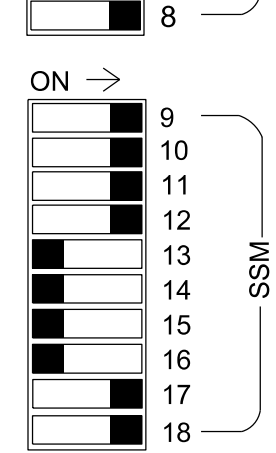
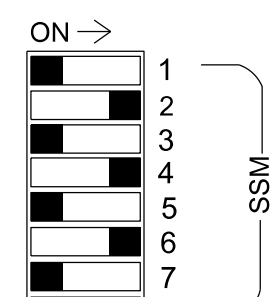
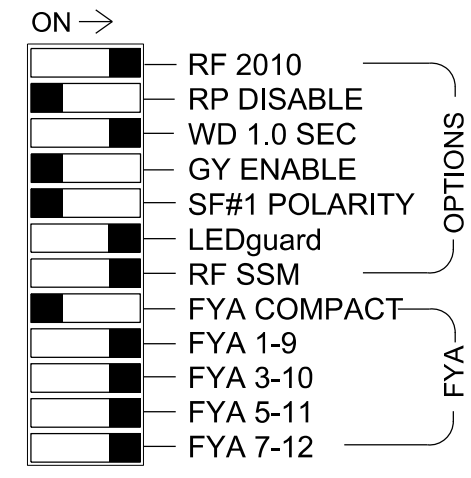
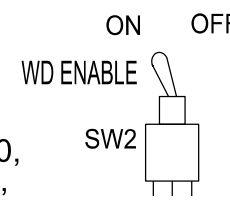
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-17, 2-5, 2-6, 2-9, 2-11, 2-17, 2-18, 3-7, 3-8, 3-10, 3-12, 3-17, 3-18, 4-7, 4-8, 4-10, 4-12, 4-17, 5-9, 5-11, 5-18, 6-9, 6-11, 6-17, 6-18, 7-10, 7-12, 7-17, 7-18, 8-10, 8-12, 8-18, 9-11, 9-17, 9-18, 10-12, 10-17, 10-18, 11-17, 11-18, 12-17, 12-18 and 17-18.



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.



■ = DENOTES POSITION OF SWITCH

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 phases 4 and 8 for Dual Entry.
- 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.
- The cabinet and controller are part of the D06-28_Hope Mills Closed Loop Signal 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, S5, S7, S8, S10, S11, AUX S1, AUX S2, AUX S3, AUX S4, AUX S5, AUX S6
 Phases Used.....1, 2, 3, 4, 5, 6, 7, 8
 Overlap "1".....*
 Overlap "2".....*
 Overlap "3".....*
 Overlap "4".....*
 Overlap "5".....*
 Overlap "6".....*

*See overlap programming detail on sheet 2.

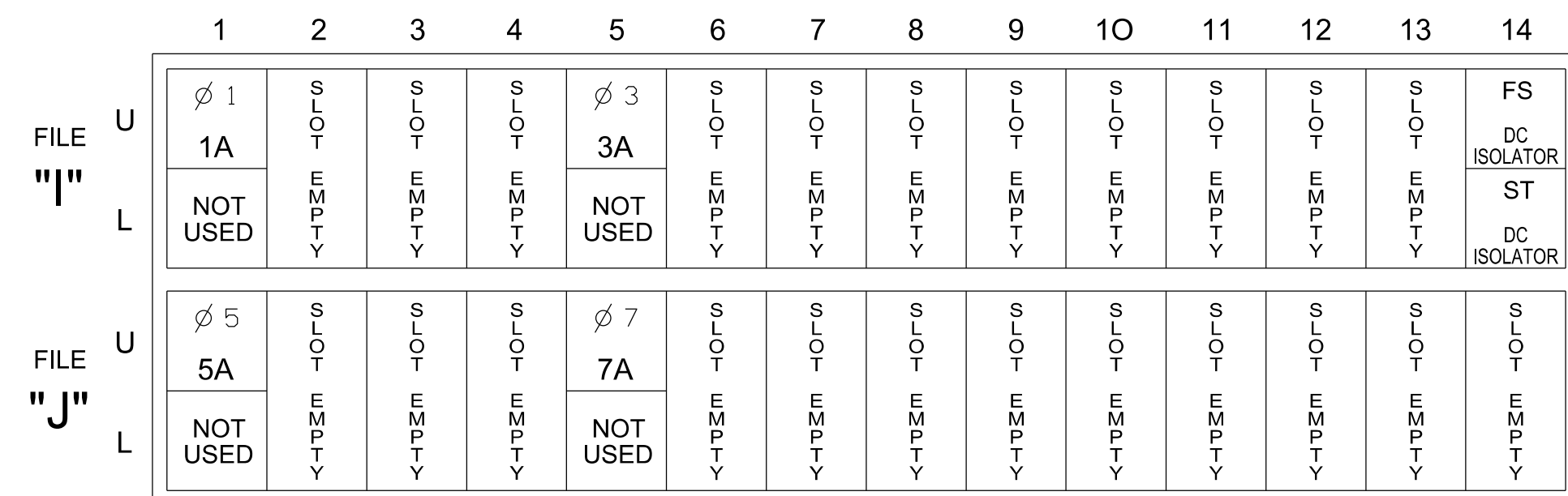
SIGNAL HEAD HOOK-UP CHART

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	7	8	8 PED	OL1	OL2	OL5	OL3	OL4	OL6
SIGNAL HEAD NO.	11*	21,22	NU	31*	41,42	NU	51*	61,62	NU	71*	81,82	NU	11*	31*	63*	51*	71*	23*
RED		128			101			134			107				A111			A104
YELLOW	*	129		*	102		*	135		*	108							
GREEN		130			103			136			109							
RED ARROW													A121	A124		A114	A101	
YELLOW ARROW													A122	A125	A112	A115	A102	A105
FLASHING YELLOW ARROW													A123	A126	A113	A116	A103	A106
GREEN ARROW	127			118				133			124							

NU = Not Used
 * Denotes install load resistor. See load resistor installation detail this sheet.
 * See pictorial of head wiring in detail this sheet.

INPUT FILE POSITION LAYOUT

(front view)

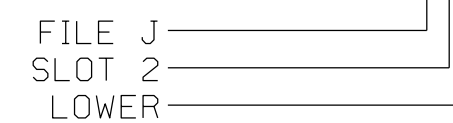


EX. : 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME
 Note: For Detection Zones 1A, 3A, 5A and 7A the equipment and slots reserved are typical for a NCDOT installation.

INPUT FILE CONNECTION & PROGRAMMING CHART

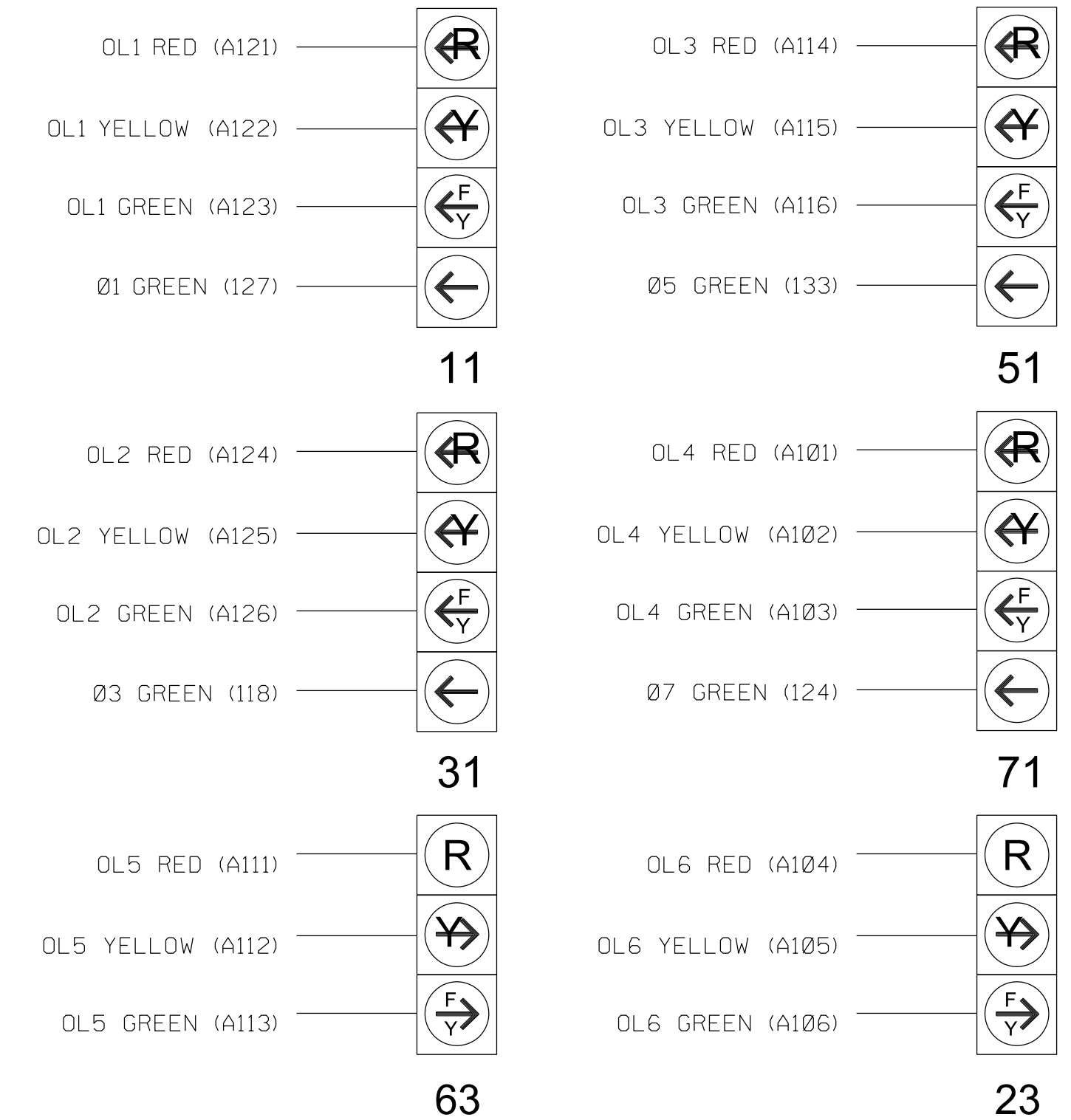
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A	TB2-1,2	11U	56	18	1	1	15.0		X		X	
	-	-	-	-	29	6	-		X		X	X
3A	TB4-5,6	15U	58	20	7	3	15.0		X		X	
	-	-	-	-	30	8	-		X		X	X
5A	TB3-1,2	J1U	55	17	15	5	15.0		X		X	
	-	-	-	-	31	2	-		X		X	X
7A	TB5-5,6	J5U	57	19	21	7	15.0		X		X	
	-	-	-	-	32	4	3.0		X		X	X

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)

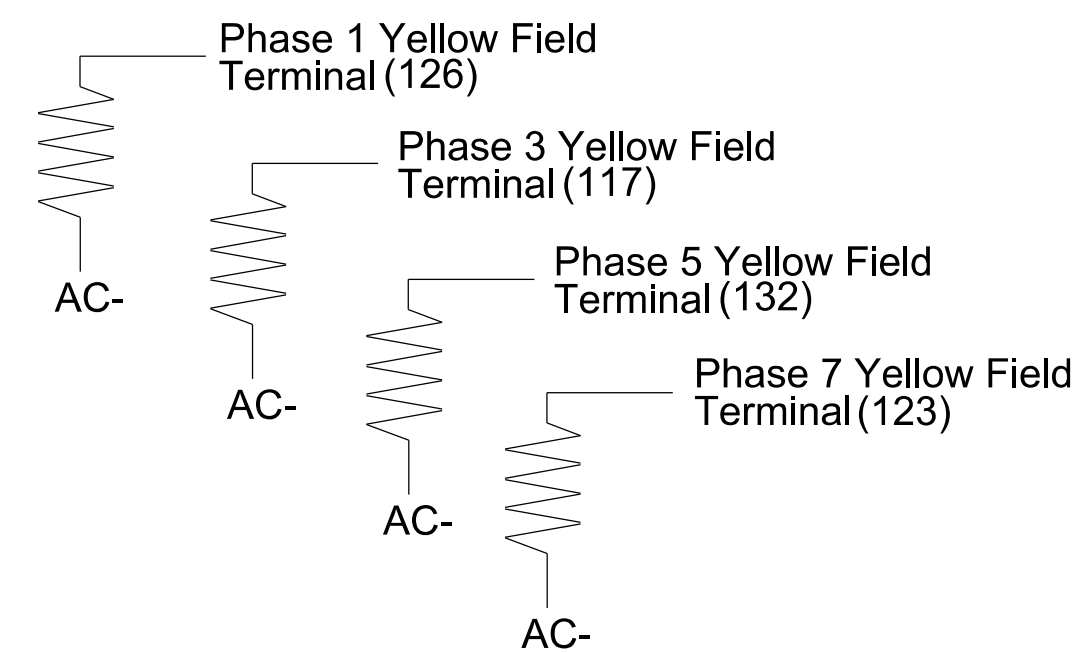


Electrical Detail - Sheet 1 of 3
 Final Design

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

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



SPECIAL DETECTOR NOTE

Install a multizone microwave detection zone for approaches 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.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-1348
 DESIGNED: Aug 2024
 SEALED:
 REVISED: N/A



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical and Programming Details For: SR 1003 (Camden Road) at SR 1113 (Waldos Beach Road) / Waldos Beach Road

Division 6 Cumberland County Hope Mills

PLAN DATE: August 2024 REVIEWED BY: LM Moon

PREPARED BY: MR Stanley/DJW DRMP PROJ. NO: 2400555

REVISIONS: INIT. DATE

Prepared For: DRMP, Inc. 8210 University Executive Park Drive, Suite 220 Charlotte, NC 28262 NC License No. F-1524 (704) 332-2289 www.DRMP.com

Seal: Lisa Moon, Professional Engineer, License No. 022516, State of North Carolina, dated 10/3/2024.

SIG. INVENTORY NO. 06-1348