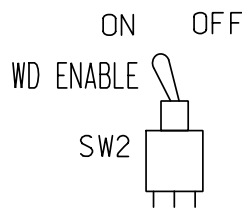


(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-3, 1-4, 1-5, 1-6, 1-7, 1-9, 1-10, 1-11, 1-12, 2-4, 2-5, 2-6, 2-7, 2-9, 2-10, 2-11, 2-12, 3-4, 3-5, 3-6, 3-7, 3-9, 3-10, 3-11, 3-12, 4-5, 4-7, 4-9, 4-10, 4-11, 4-12, 5-7, 5-9, 5-10, 5-11, 5-12, 6-9, 6-10, 6-11, 6-12, 7-9, 7-10, 7-11, 7-12, 9-10, 9-11, 9-12, 10-11, 10-12, AND 11-12



NOTES:

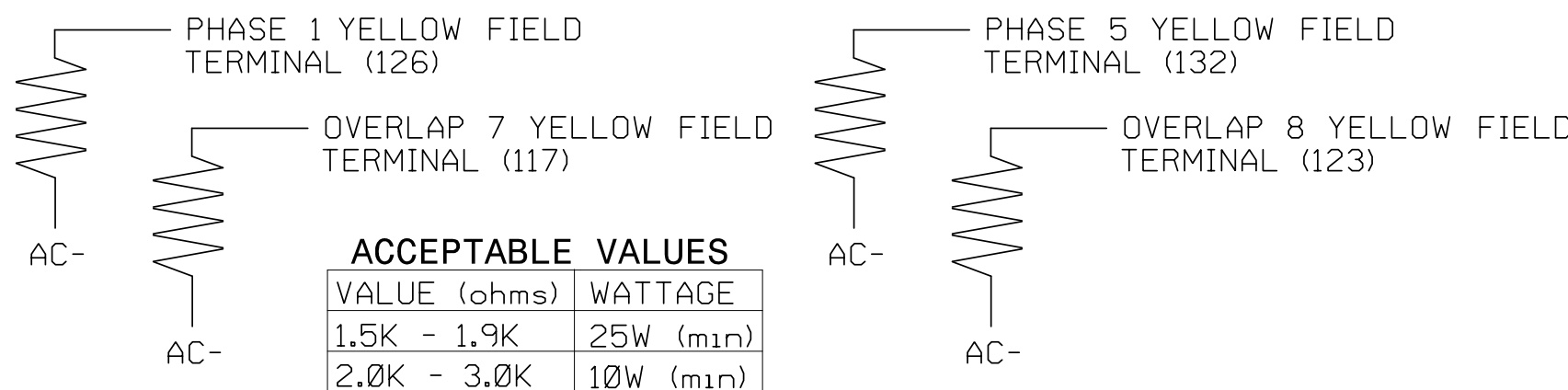
1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

(front view)



FS = FLASH SENSE
ST = STOP TIME

(install resistors as shown below)



1. 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 Plans.

2. Program controller to start up in phase 2 Green No Walk and phase 6 Green No Walk.
3. The cabinet and controller are part of the Concord Central System.

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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,AUX S1,
                        AUX S2,AUX S4,AUX S5
PHASES USED.....1,2,5,6
OVERLAP "1".....*
OVERLAP "2".....*
OVERLAP "3".....*
OVERLAP "4".....*
OVERLAP "5".....NOT USED
OVERLAP "6".....NOT USED
OVERLAP "7".....*
OVERLAP "8".....*
OVERLAP "9".....*

```

- * See overlap programming detail on sheet 2

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	2			X	X	X	
2B	TB2-7,8	I2L	43	5	3	2			X	X	X	
5A	TB3-1,2	J1U	55	17	15★	5	15.0		X		X	
5B	TB5-9,10	J6U	42	4	22	5	15.0		X		X	
5C	TB5-11,12	J6L	46	8	23	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	

- ★ See the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheet 2.

INPUT FILE POSITION LEGEND: J2L

FILE J _____
SLOT 2 _____
LOWER _____

Electrical Detail - Sheet 1 of 3

PROJECT REFERENCE NO.	SHEET NO.
U-5956	Sig 2.1

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	OL7	OL9	4 PED	5	6	6 PED	OL8	8	8 PED	OL1	OL2	OL5	OL3	OL4	OL6		
SIGNAL HEAD NO.	11★	21	22	NU	12★	53,54	NU	51★	61	62	NU	52★	NU	NU	11★	12★	NU	51★	52★	NU
RED		128	128		101			134	134											
YELLOW	*	129	129		*			*	135	135		*								
GREEN			130						136											
RED ARROW													A121	A124		A114	A101			
YELLOW ARROW					102								A122	A125		A115	A102			
FLASHING YELLOW ARROW													A123	A126		A116	A103			
GREEN ARROW	127	130			118	103		133	136			124								

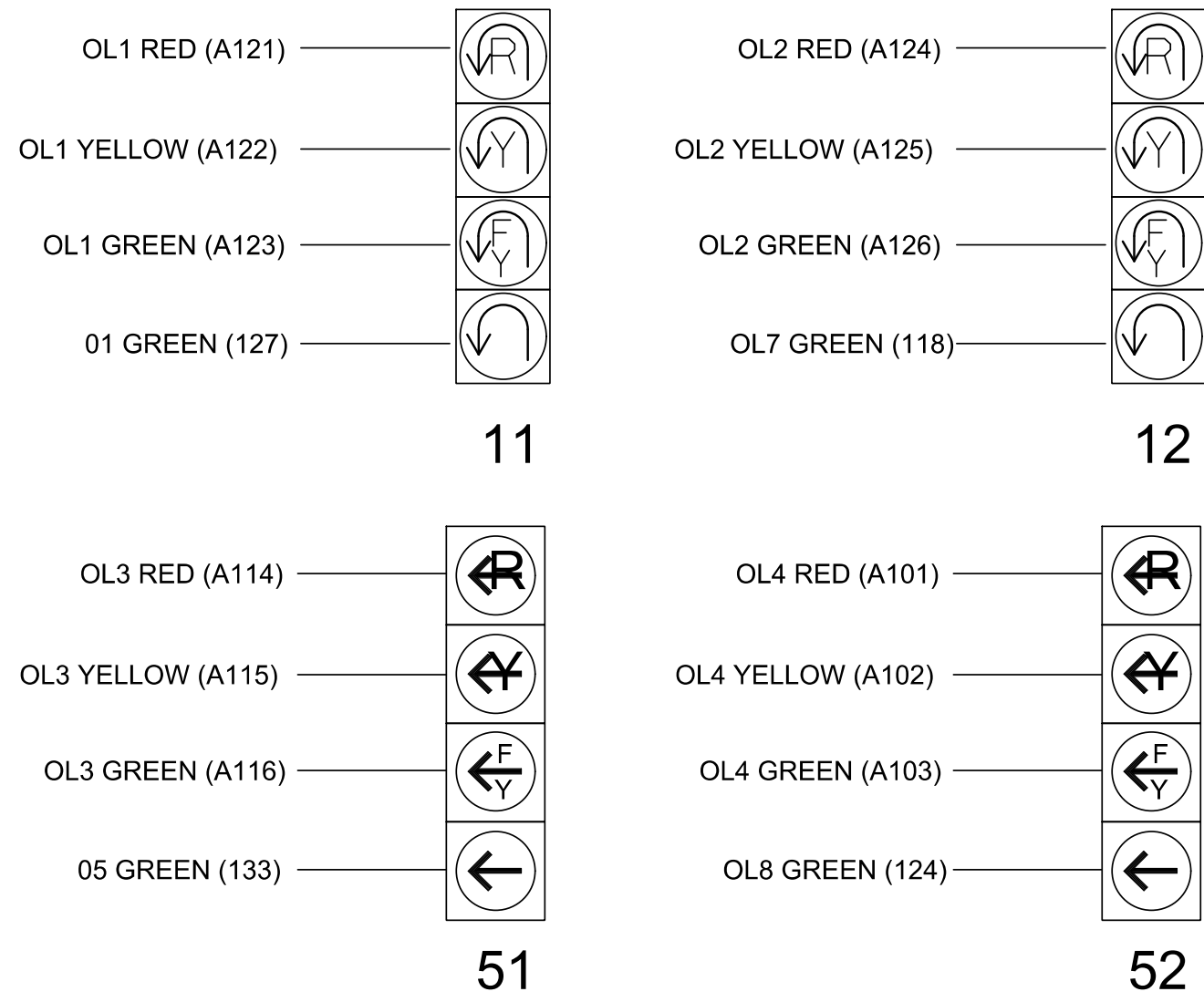
NU = Not Used

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

- ★ See pictorial of head wiring in detail this sheet.

NOTE: Load Switches S4, S5, and S10 require special output remapping.
See sheet 3 of this electrical detail for instructions.

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 10-2455
DESIGNED: February 2025
SEALED: 08-21-2025
REVISED: N/A

**DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED**

SEAL

A circular professional engineer seal for Kevin P. Baumann. The outer ring contains the text "NORTH CAROLINA" at the top and "KEVIN P. BAUMANN" at the bottom. The inner ring contains the text "PROFESSIONAL" at the top and "ENGINEER" at the bottom. In the center, it says "SEAL" and "044434".

DocuSigned by:
Kenn Bana
5DC709A86BCB447... 8/21/2

SIG. INVENTORY NO.	10-2455
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PLANS PREPARED IN THE OFFICE OF:

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