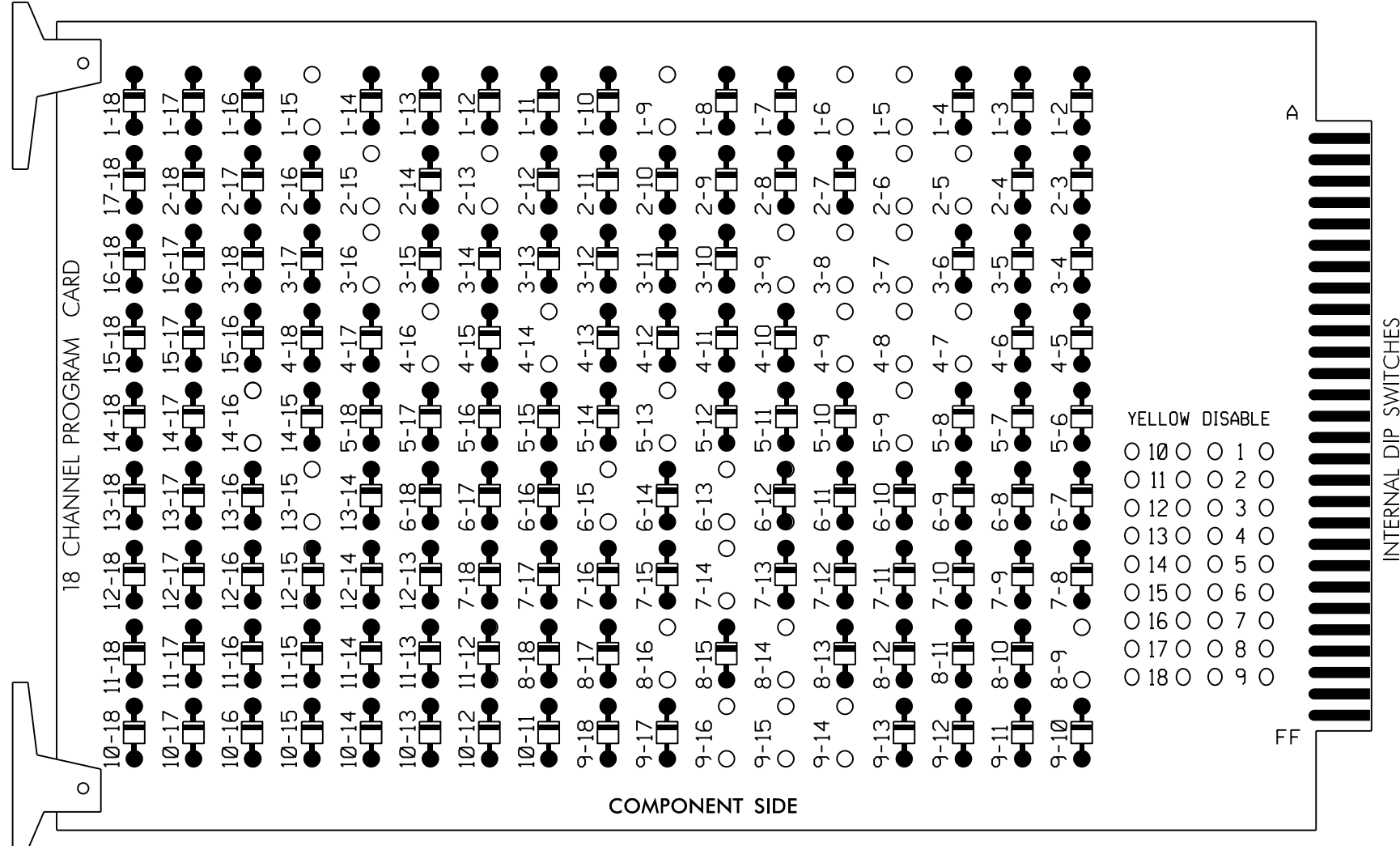


18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-15, 2-5, 2-6, 2-13, 2-15, 3-7, 3-8, 3-9, 3-16, 4-7, 4-8, 4-9, 4-14, 4-16, 5-9, 5-13, 6-13, 6-15, 7-14, 8-9, 8-14, 8-16, 9-14, 9-15, 9-16, 13-15, and 14-16.



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 and 6 Green.
- 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 Burlington-Graham Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070LX
CABINET.....332 W/AUX
SOFTWARE.....ECONOLITE ASC/3-2070
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,
S9,S10,S11,S12,AUX S1
PHASES USED.....1,2,2PED,3,4,4PED,5,6,
6PED,7,8,8PED

OVERLAP "A".....*
OVERLAP "B".....NOT USED
OVERLAP "C".....NOT USED
OVERLAP "D".....NOT USED
OVERLAP "G".....*

* See overlap programming detail on sheet 2

SIGNAL HEAD HOOK-UP CHART

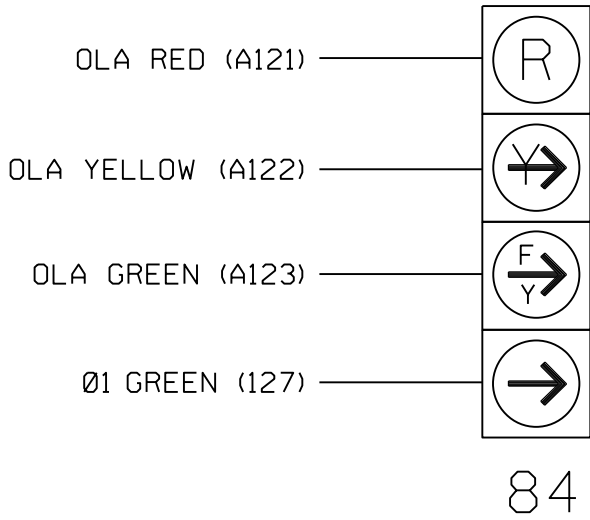
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11,12	84	21,22	P21, P22	31,32	41,42	P41, P42	51	61,62	P61, P62	71,72	81,82, 83	P81, P82	84	NU	NU	NU	NU
RED			128		101			134			107		A121					
YELLOW			129		102			135			108							
GREEN			130		103			136			109							
RED ARROW	125			116		131				122								
YELLOW ARROW	126			117		132				123			A122					
FLASHING YELLOW ARROW													A123					
GREEN ARROW	127	127		118		133				124								
Hand icon				113		104			119		110							
Walking person icon				115		106			121		112							

NU = Not Used

★ See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	Ø 1	Ø 1	Ø 2	Ø 3	Ø 3	Ø 4	Ø 3	Ø 3	Ø 4	Ø 3	Ø 3	Ø 4	Ø 3	Ø 3
L	1A	1B	2A	3A	3B	4A	3A	3B	4A	3A	3B	4A	3A	3B
U	NOT USED	Ø 1	Ø 2	NOT USED	NOT USED	Ø 4	NOT USED	NOT USED	Ø 4	NOT USED	NOT USED	Ø 4	NOT USED	NOT USED
L	1C	1C	2B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
U	Ø 5	Ø 6	Ø 7	Ø 7	Ø 7	Ø 8	Ø 7	Ø 7	Ø 8	Ø 7	Ø 7	Ø 8	Ø 7	Ø 7
L	5A	6A	7A	7B	7B	8A	7A	7B	8A	7A	7B	8A	7A	7B
U	NOT USED	Ø 6	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
L	6B	6B	8B	8B	8B	8B	8B	8B	8B	8B	8B	8B	8B	8B

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

FS = FLASH SENSE
ST = STOP TIME

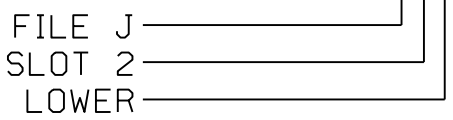
INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	ADDED INITIAL	DETECTOR TYPE
1A	TB2-1,2	I1U	56	1	1	YES				N
1B	TB2-5,6	I2U	39	2	1	YES				N
1C	TB2-7,8	I2L	43	12	1	YES		15		N
2A	TB2-9,10	I3U	63	32	2	YES			X	N
2B	TB2-11,12	I3L	76	42	2	YES			X	N
3A	TB4-5,6	I5U	58	3	3	YES		3		N
3B	TB4-9,10	I6U	41	4	3	YES				N
4A	TB6-1,2	I7U	65	34	4	YES				N
4B	TB6-3,4	I7L	78	44	4	YES		10		N
* S1	TB6-9,10	I9U	60	11	SYS	NO				N
* S2	TB6-11,12	I9L	62	13	SYS	NO				N
5A	TB3-1,2	J1U	55	5	5	YES				N
6A	TB3-5,6	J2U	40	6	6	YES			X	N
6B	TB3-7,8	J2L	44	16	6	YES			X	N
7A	TB5-5,6	J5U	57	7	7	YES		3		N
7B	TB5-9,10	J6U	42	8	7	YES				N
8A	TB7-1,2	J7U	66	38	8	YES				N
* S3	TB7-9,10	J9U	59	15	SYS	NO				N
* S4	TB7-11,12	J9L	61	17	SYS	NO				N
PED PUSH BUTTONS										
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED					
P41,P42	TB8-5,6	I12L	69	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED					
P81,P82	TB8-8,9	I13L	70	PED 8	8 PED					

NOTE:
INSTALL DC ISOLATORS
IN INPUT FILE SLOTS
112 AND 113.

* System detector only. Remove any assigned vehicle phase.

INPUT FILE POSITION LEGEND: J2L



TRANSYSTEMS

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Fax:919.789.9591
License: F-0453

Electrical Detail - Sheet 1 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:	US 70 (S. Church Street) at SR 1158 (Huffman Mill Road)/ Shadowbrook Drive	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
Prepared for the Offices of:	Division 7 Alamance County Burlington	SEAL NORTH CAROLINA PROFESSIONAL SEAL 008453 JOHN T. ROWE JR. JOHN ENGINEER
PLAN DATE: March 2024	REVIEWED BY: J.T. Rowe, Jr.	DocuSigned by John T. Rowe Jr. 3-7-2024 DATE
PREPARED BY: J.T. Rowe, Jr.	REVIEWED BY:	SIG. INVENTORY NO. 07-0112
REVISIONS	INIT.	DATE