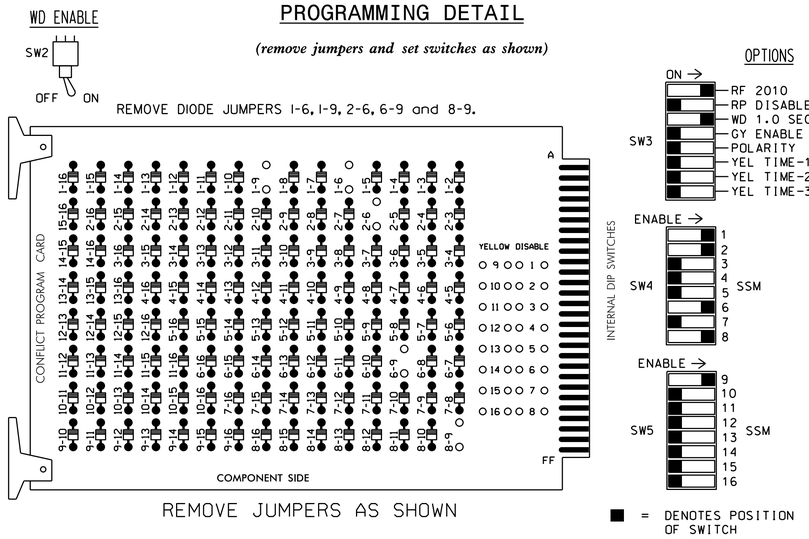
PROJECT REFERENCE NO.	SHEET NO.
B-4565	Sig. 3.1

EDI MODEL 2010ECL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE JUMPERS AS SHOWN

■ = DENOTES POSITION OF SWITCH

NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Make sure jumpers SEL2-SEL5 are present on the monitor board.

NOTES

1. 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.
2. Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 3,4,5, 7,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
3. Enable Simultaneous Gap-Out for all phases.
4. Program phases 2 and 6 for Variable Initial and Gap Reduction.
5. Program phases 2 and 6 for Start Up In Green.
6. Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
7. The cabinet and controller are part of the Kinston Signal System.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
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	21,22 23	NU	NU	NU	NU	NU	61,62	NU	NU	81,82	NU	83	NU	NU	NU	NU	NU
RED		128						134					A121					
YELLOW		129						135										
GREEN		130						136										
RED ARROW	125										107							
YELLOW ARROW	126										108		A122					
GREEN ARROW	127										109		A123					

NU = Not Used

EQUIPMENT INFORMATION

CONTROLLER.....2070
CABINET .....332 W/AUX
SOFTWARE .....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS..18 (12-STD, 6-AUX)
LOAD SWITCHES USED.....S1,S2,S6,S8,S9
PHASES USED.....1,2,6,8
OVERLAP A.....1+8

INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	Ø 1 1A	Ø 1 1B	Ø 2/SYS 2B/CD2	SYS. DET. SD3	SLOT EMPTY	Ø 8 8A	CNT. DET. CD6	SYS. DET. SD7	SYS. DET. SD9	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	FS DC ISOLATOR
	L	NOT USED	Ø 2/SYS 2A/CD1	Ø 2/SYS 2C/CD3	SYS. DET. SD4		NOT USED	CNT. DET. CD7	SYS. DET. SD8	NOT USED					ST DC ISOLATOR
FILE "J"	U	SLOT EMPTY	Ø 6/SYS 6A/CD9	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	Ø 8 8B	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	PRE3 OPTICOM 4-CHANNEL	PRE4	SLOT EMPTY
	L		Ø 6/SYS 6B/CD8					NOT USED					PRE5	NOT USED	

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

FS = FLASH SENSE
ST = STOP TIME
PRE = PREEMPT

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A	TB2-1,2	I1U	56	18	1	1	Y	Y			
1B	TB2-5,6	I2U	39	1	2	1	Y	Y			15
2A/CD1	TB2-7,8	I2L	43	5	12	2/Count	Y	Y			
2B/CD2	TB2-9,10	I3U	63	25	32	2/Count	Y	Y			
2C/CD3	TB2-11,12	I3L	76	38	42	2/Count	Y	Y			
6A/CD9	TB3-5,6	J2U	40	2	6	6/Count	Y	Y			
6B/CD8	TB3-7,8	J2L	44	6	16	6/Count	Y	Y			
8A	TB4-9,10	I6U	41	3	4	8	Y	Y			
8B	TB7-1,2	J7U	66	28	38	8	Y	Y			
** CD6	TB6-1,2	I7U	65	27	34	Count					
** CD7	TB6-3,4	I7L	78	40	44	Count					
* SD3	TB4-1,2	I4U	47	9	22	SYS					
* SD4	TB4-3,4	I4L	47	9	22	SYS					
* SD7	TB6-5,6	I8U	49	11	24	SYS					
* SD8	TB6-7,8	I8L	49	11	24	SYS					
* SD9	TB6-9,10	I9U	60	22	11	SYS					

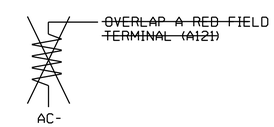
* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

** Count detector only. Remove the vehicle phase assigned to this detector in the default programming.

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

LOAD RESISTOR REMOVAL DETAIL

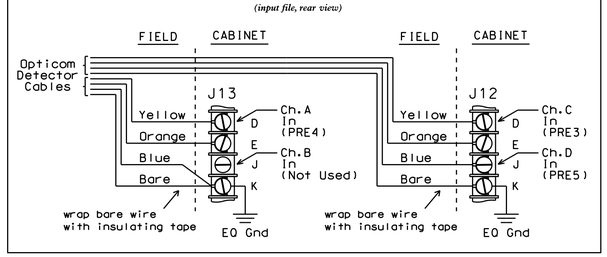
(remove resistor as shown below)



! IMPORTANT: If present, remove load resistor OVERLAP A RED FIELD TERMINAL (A121)

TYPICAL OPTICOM FIELD WIRE DETAIL

(input file, rear view)



THIS ELECTRICAL DETAIL IS FOR
INTERSECTION: 02-0100T1
DESIGNED: August 2014
SEALED: 8/26/14
REVISED: N/A

Electrical Detail - Sheet 1 of 2 - Temporary 1

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

US 70-258/US 70 NC 58
at
US 70B-258B NC 58/US 258

Division 2 | Lenoir County | Kinston

PLAN DATE:	August 2014	REVIEWED BY:	T. Joyce
PREPARED BY:	B. Simmons	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022013 ENGINEER GEORGE C. BROWN

DocuSigned by: George C. Brown 8/28/2014
F12601ED0BEB434...
DATE

SIG. INVENTORY NO. 02-0100T1

28-AUG-2014 07:10
S:\TISGUI\TIS Signals\Workgroups\Sig Mon\Simmons\Working Folder\Electrical Details\Division 02\02010O_sm_ele_xxx.dgn
bsimmons