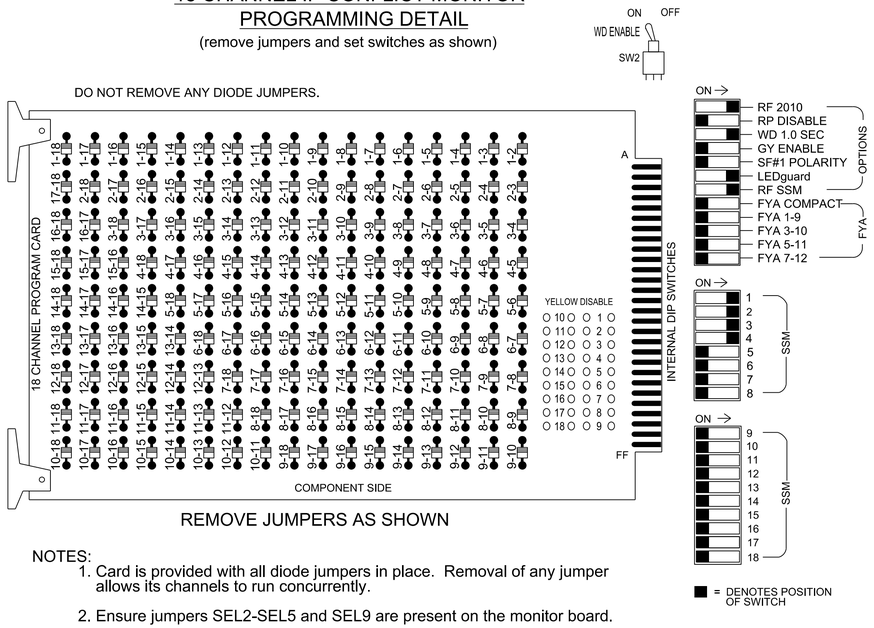
PROJECT REFERENCE NO.	SHEET NO.
U-5783	Sig. 4.1

18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE JUMPERS AS SHOWN

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 the Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	1O	11	12	13	14
FILE "I"	U	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	FS DC ISOLATOR
	L														ST DC ISOLATOR
FILE "J"	U	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY
	L														

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

FS = FLASH SENSE
ST = STOP TIME

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 plan.
2. Return controller to Factory Defaults before programmimng per this electrical detail.
3. Program controller to start up in phase 2 Green No Walk.
4. If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

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	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	11	12,13	42	21	22	32	NU	31	32	12	41	42	22	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
RED	125	125		128	128			116	116		101	101														
YELLOW	126	126		129	129			117	117		102	102														
GREEN	127	127		130	130			118	118		103	103														
RED ARROW																										
YELLOW ARROW			126			129				117			102													
FLASHING YELLOW ARROW																										
GREEN ARROW	127		127	130		130		118		118	103		103													
✋																										
🚶																										

NU = Not Used

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
Phases Used.....1, 2, 3, 4
Overlap "1".....Not Used
Overlap "2".....Not Used
Overlap "3".....Not Used
Overlap "4".....Not Used

SPECIAL DETECTOR NOTE

Install a multi-zone microwave detection system 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.

Mattern & Craig
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NC LIC. NO. C-1154

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 14-0002T3
DESIGNED: September 2023
SEALED: 4/1/2024
REVISED: NA

Temporary Signal - TCP Phase 5B
Electrical Detail - Sheet 1 of 1

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical and Programming Details For:

US 64 (Brevard Road)
at
SR 2162 (Blythe Street)

Division 14 | Henderson County | Hendersonville

PLAN DATE: September 2023 | REVIEWED BY: JB Voso
PREPARED BY: KG Eudy | REVIEWED BY:

REVISIONS	INIT.	DATE

Prepared for the Offices of:
Transportation Mobility and Safety Division
Traffic Engineering & Signal Management Section
750 N. Greenfield Pkwy, Garner, NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022599 ENGINEER JAMES B. VOSO
DocuSigned by: James Voso
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4/1/2024
DATE

SIG. INVENTORY NO. 14-0002T3

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jbvoso
U-5783 US 64 Widening (U-5783)M06 U-5783*Traffic*Signals*Design*Signals*14-0002*U5783_140002 Microwave detection.dgn