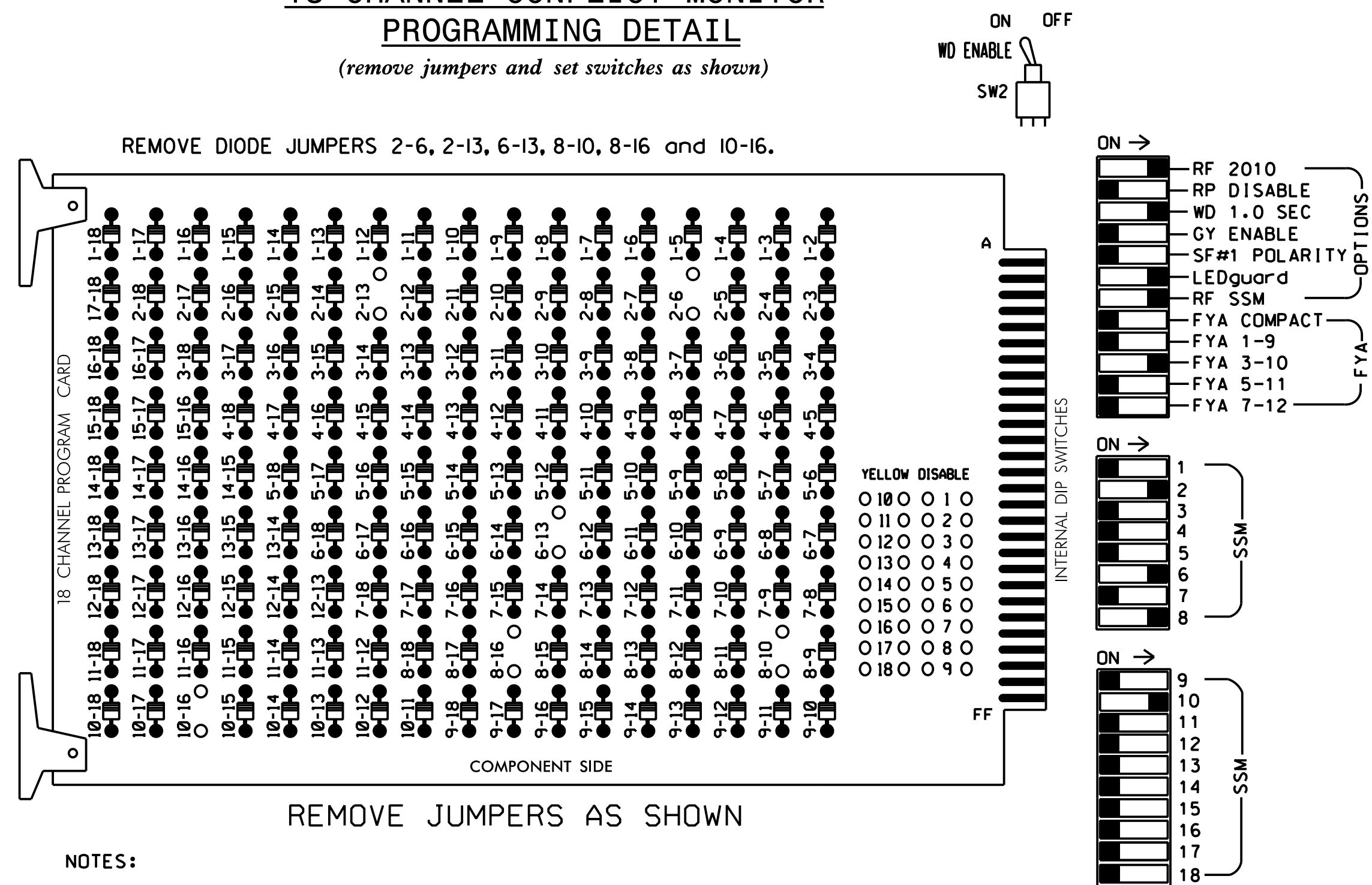


18 CHANNEL CONFLICT MONITOR

PROGRAMMING DETAIL

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

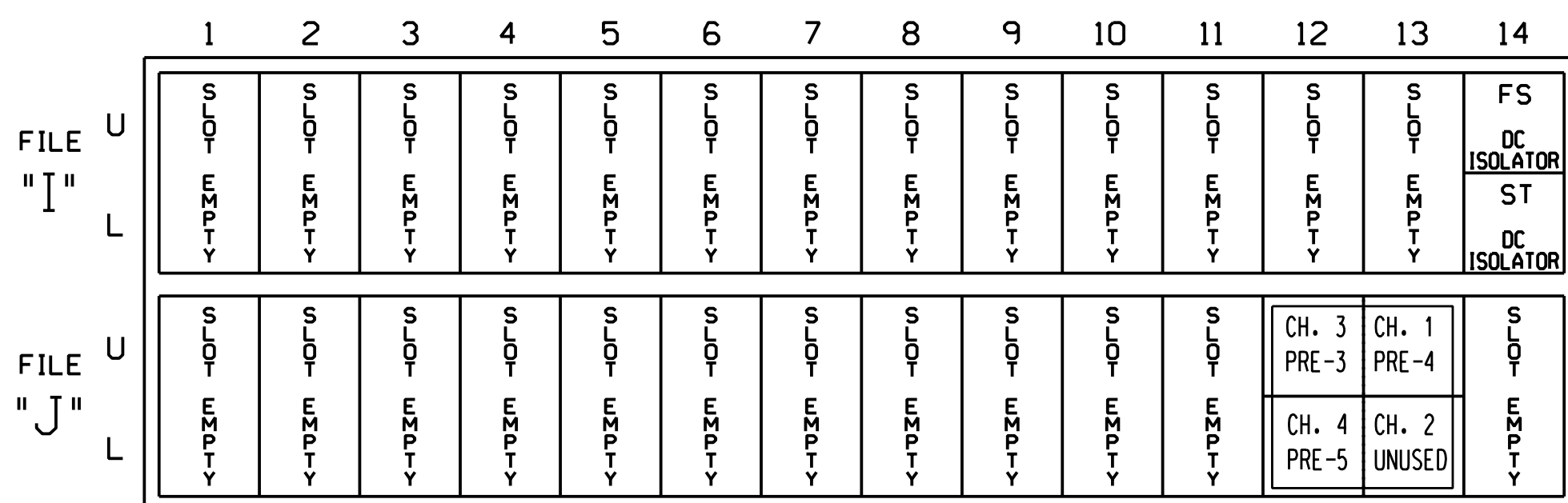


- NOTES:**

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 Red Enable is active at all times during normal operation.
4. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

INPUT FILE POSITION LAYOUT

(front view)



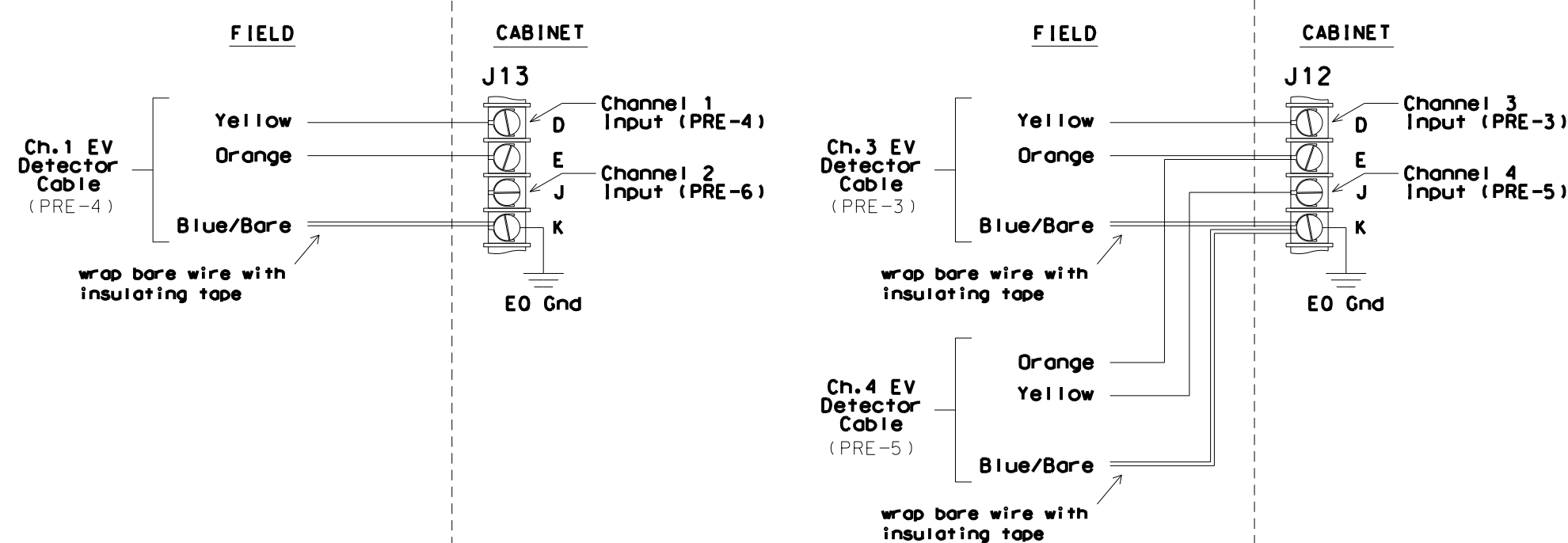
EX.: 1A, 2A, ETC. = LOOP NO.'S

```
FS = FLASH SENSE
ST = STOP TIME
PRE = PREEMPT
```

4 CHANNEL EV DSP CARD
INSERT CARD INTO
SLOT J13

TYPICAL EV FIELD WIRE DETAIL

(input file, rear view)



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. Program controller to start up in phases 2 and 6 Green/Don't Walk.
3. Enable Simultaneous Gap-Out feature for all phases.
4. The cabinet and controller are part of the Hickory City Signal System.

EQUIPMENT INFORMATION

```

CONTROLLER.....2070LX
CABINET.....332 W/ AUX
SOFTWARE.....SE-PAC2070 VER. 5.4
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED.....S2,S3,S8,S11,S12,AUX S2
PHASES USED.....2.2 PED,4*,6,8,8 PED
OVERLAP "A".....NOT USED
OVERLAP "B".....**
OVERLAP "C".....NOT USED
OVERLAP "D".....NOT USED

```

- * Phase used for timing purposes only.
** See Sheet 2 for Overlap Programming.

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

1. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
2. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

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.	NU	21,22	P21, P22	NU	NC	NU	NU	61	62	NU	NU	81,82	P81, P82	NU	83★	NU	NU	NU	NU
RED		128						134	134			107			A124				
YELLOW		129						135	135			108							
GREEN									136			109							
RED ARROW																			
YELLOW ARROW															A125				
FLASHING YELLOW ARROW															A126				
GREEN ARROW		130						136											
			113										110						
			115										112						

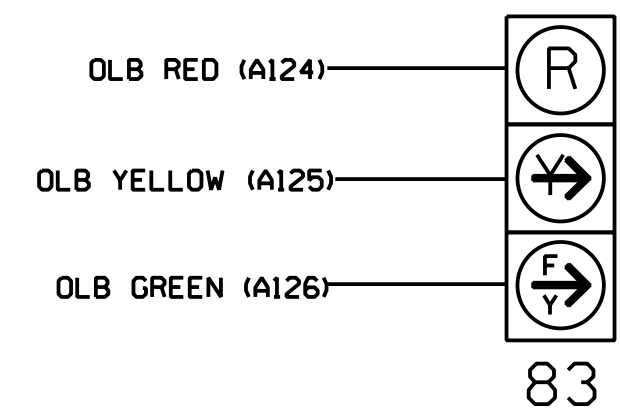
NU = Not Used

NC = Not Connected

★ See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

1. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
2. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

Signal Upgrade-
Electrical Detail - Sheet 1 of 3
(Construction Phase 1, Step 4)

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 12-0954T2
DESIGNED: October 2023
SEALED: 09/06/2024
REVISED: N/A

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

ELECTRICAL AND PROGRAMMING DETAILS FOR:	NC 127 SE at SR 1692 (1st Ave SE)	SEAL 																																	
Prepared for: 	Division 12 Catawba County Hickory																																		
	PLAN DATE: January 2024 REVIEWED BY: N.K. Vlanich																																		
	PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons																																		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">REVISONS</th> <th style="width: 20%;">INIT.</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISONS	INIT.	DATE																															DocuSigned by: 
REVISONS	INIT.	DATE																																	
750 N.Greenfield Pkwy,Garner,NC 27529		Signed: <u>Natasha R. Simmons</u> 9/6/2024 Date: _____ Signature: _____ Date: _____ SIG. INVENTORY NO. 12-095472																																	