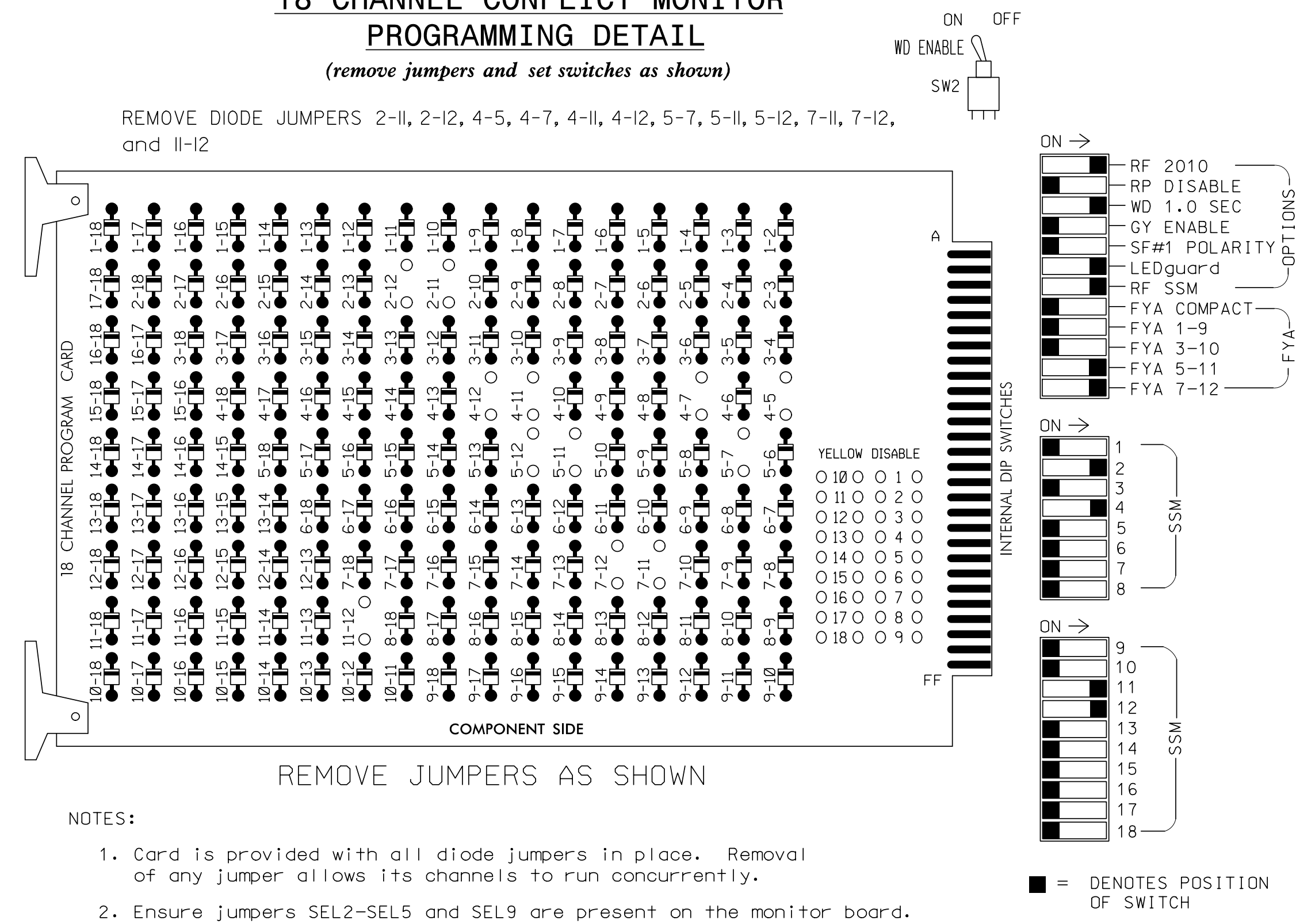


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



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 phases 4 and 7 for Dual Entry.
- Program controller to start up in phase 2 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all enabled detectors.
- The cabinet and controller are part of the NC 55 Bypass Closed Loop System.

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.....S2,S5,S7,S10,AUX S4,AUX S5
 PHASES USED.....2,4,7
 OVERLAP "1".....NOT USED
 OVERLAP "2".....NOT USED
 OVERLAP "3".....*
 OVERLAP "4".....*
 OVERLAP "5".....NOT USED
 OVERLAP "6".....NOT USED
 OVERLAP "7".....*
 * See overlap programming detail on sheet 2

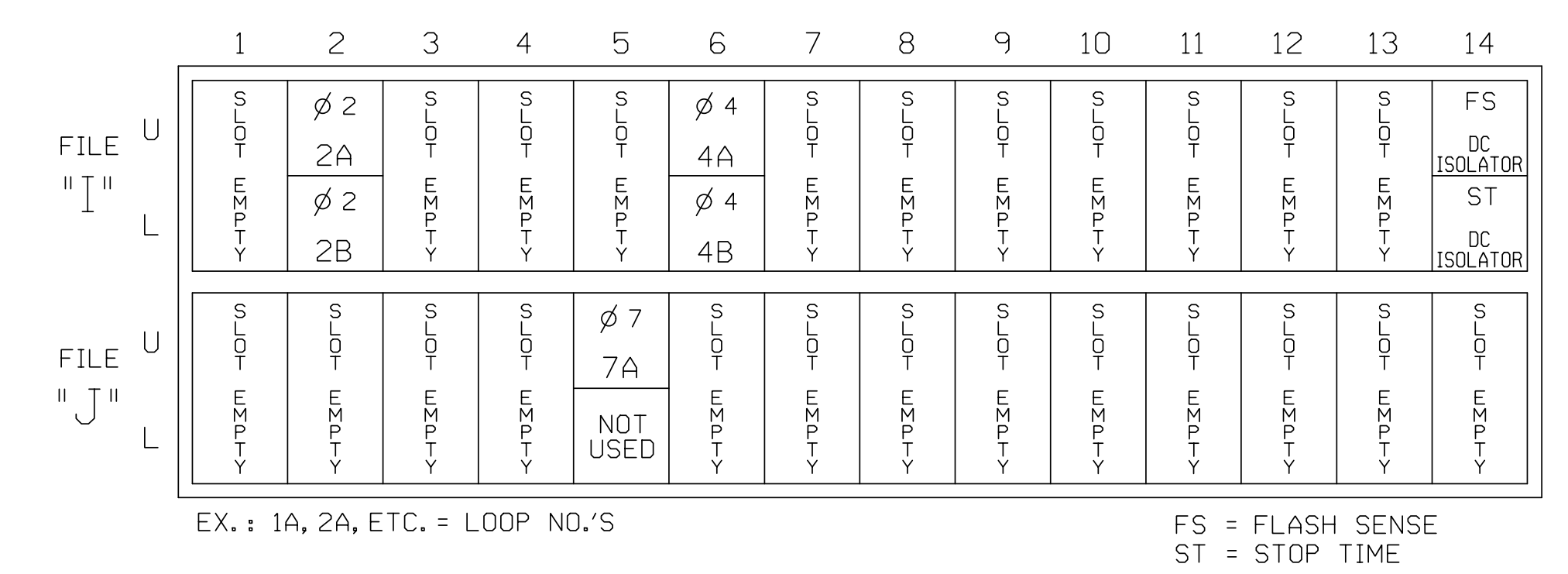
SIGNAL HEAD HOOK-UP CHART

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	OL7	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21,22	23	NU	NU	41,42,43	72	71	70	71	72	73	74	75	76	77	78	79
RED		128	128			101												
YELLOW		129					*			*								
GREEN		130																
RED ARROW																A114	A101	
YELLOW ARROW			129			102										A115	A102	
FLASHING YELLOW ARROW																A116	A103	
GREEN ARROW			130			103	133			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 switch S7 requires special output remapping. See sheet 2 of this electrical detail for instruction.

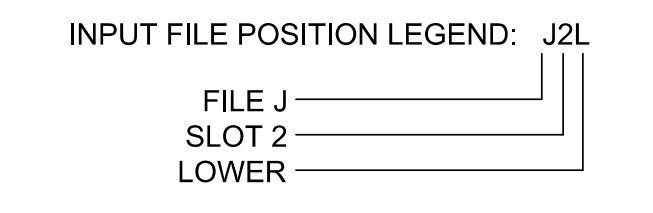
INPUT FILE POSITION LAYOUT

(front view)



INPUT FILE CONNECTION & PROGRAMMING CHART

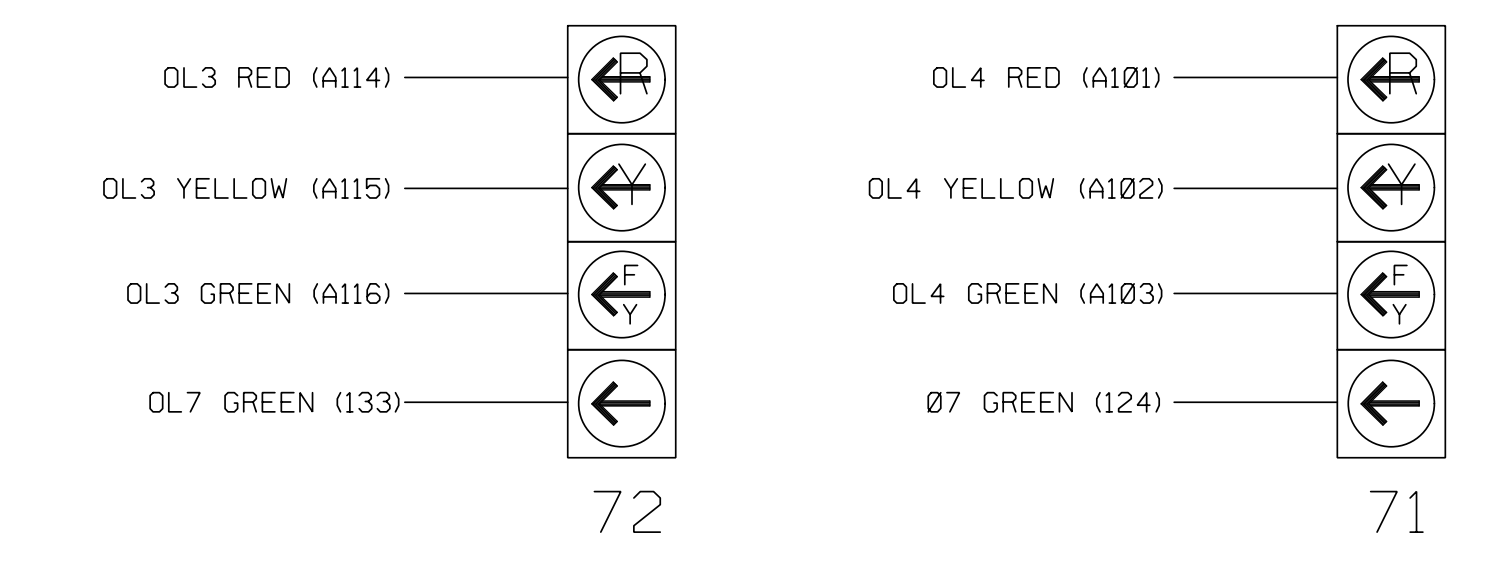
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
2A	TB2-5,6	I2U	39	1	2					X	X	
2B	TB2-7,8	I2L	43	5	3	2				X	X	
4A	TB4-9,10	I6U	41	3	8	4	15			X	X	
4B	TB4-11,12	I6L	45	7	9	4	15			X	X	
7A	TB5-5,6	J5U	57	19	21	7★	15			X	X	



★ For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheet 2.

FYA SIGNAL WIRING DETAIL

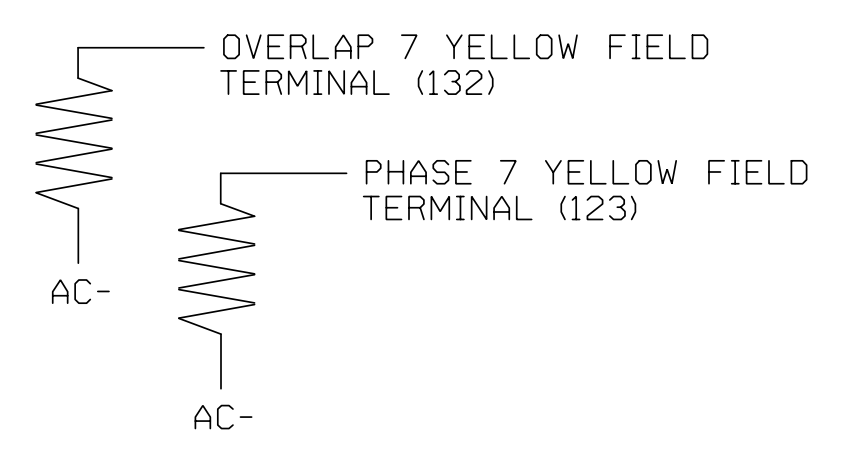
(wire signal heads as shown)



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-1402
 DESIGNED: August 2022
 SEALED: 06/22/2023
 REVISED: N/A

Electrical Detail - Sheet 1 of 3

Electrical and Programming Details For:

 Prepared For:
 Kimley-Horn
 NC License #F-0102
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601
 (919) 677-2000

NC 55 Bypass Northbound at NC 210
 Division 6 Harnett County Angier
 PLAN DATE: August 2022 REVIEWED BY: KP Baumann
 PREPARED BY: CF Davis REVIEWED BY:
 REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
 SEAL

 KEVIN P. BAUMANN
 ENGINEER
 6/22/2023
 DATE
 SIG. INVENTORY NO. 06-1402

6/21/2023 2:48:35 PM c:\01\g.davis m:\kimley-horn.com\c_ral\RAL_Roadway\011036479 - R-5705A - NC 55 Signal\sig4 - S1\signal Design - MaxTime2.1 06-1402-2023p.dgn