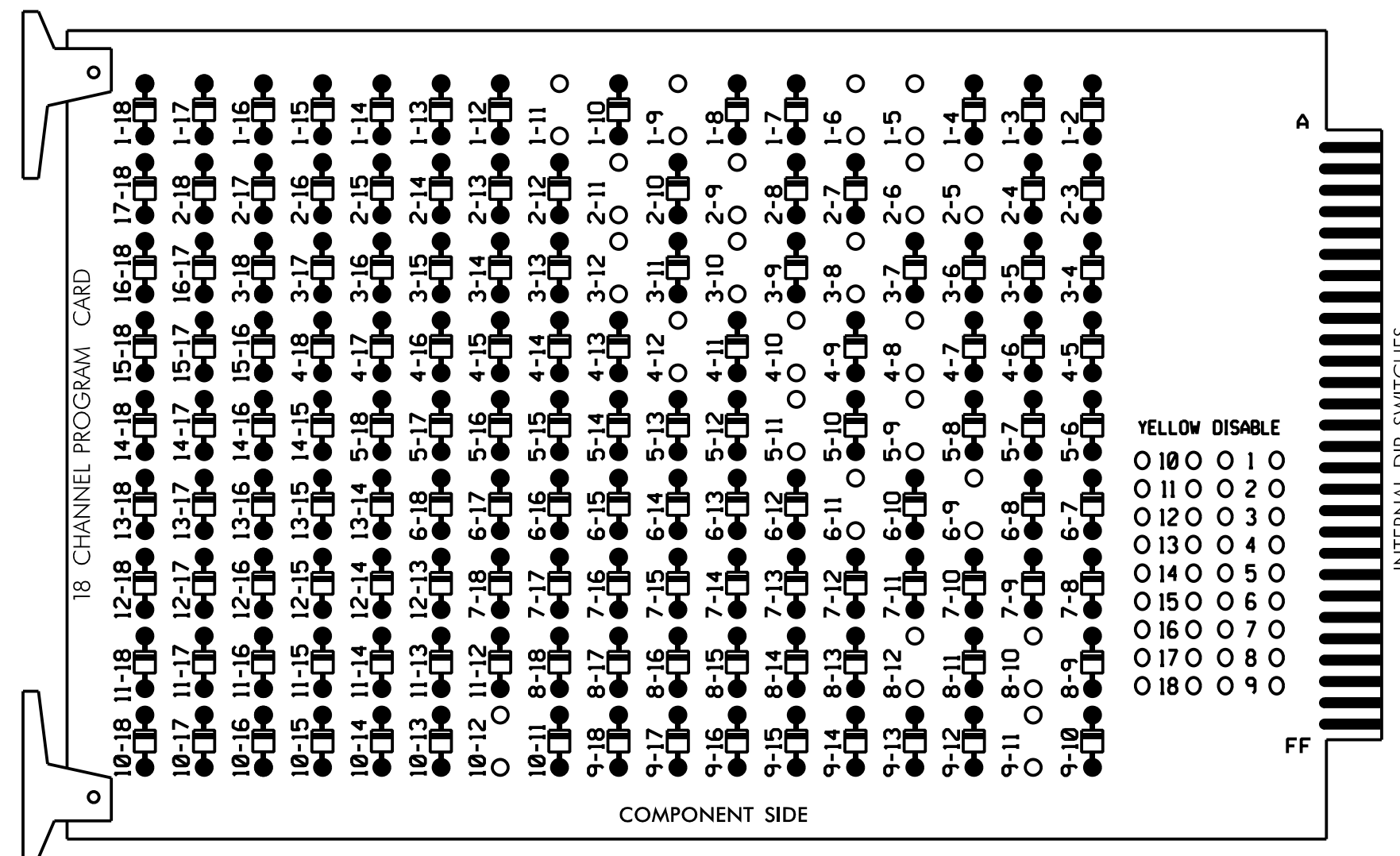


EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

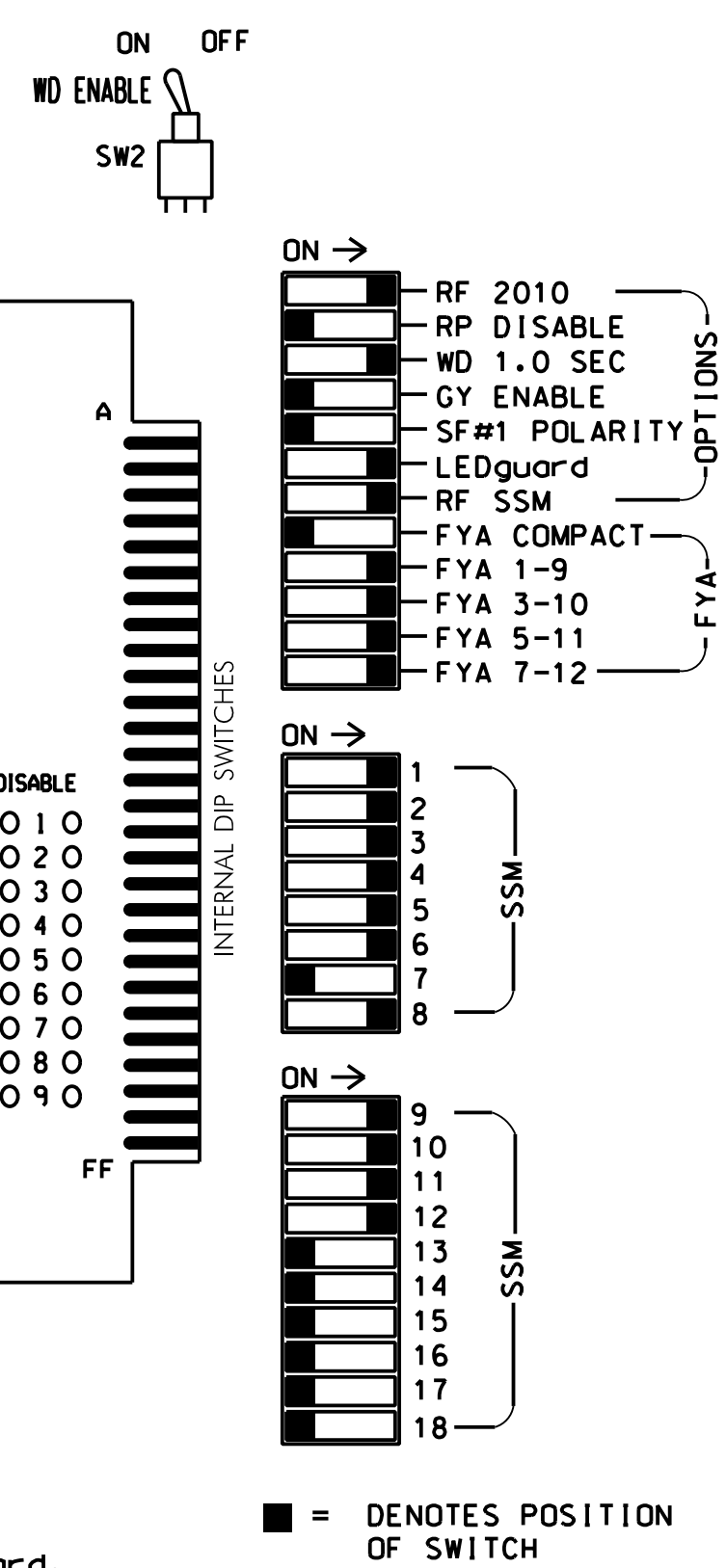
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 2-5, 2-6, 2-9, 2-11, 3-8, 3-10, 3-12, 4-8, 4-10, 4-12, 5-9, 5-11, 6-9, 6-11, 8-10, 8-12, 9-11, and 10-12.



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 phase 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all Phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Startup In Green.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 2 as Wag Overlaps.
- The cabinet and controller are part of the Wilmington Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,S11,AUX S1,
 AUX S2,AUX S4,AUX S5

PHASES USED.....1,2,3,4,5,6,8
 OVERLAP "A".....1+2
 OVERLAP "B".....3+4
 OVERLAP "C".....5+6
 OVERLAP "D".....8

SIGNAL HEAD HOOK-UP CHART

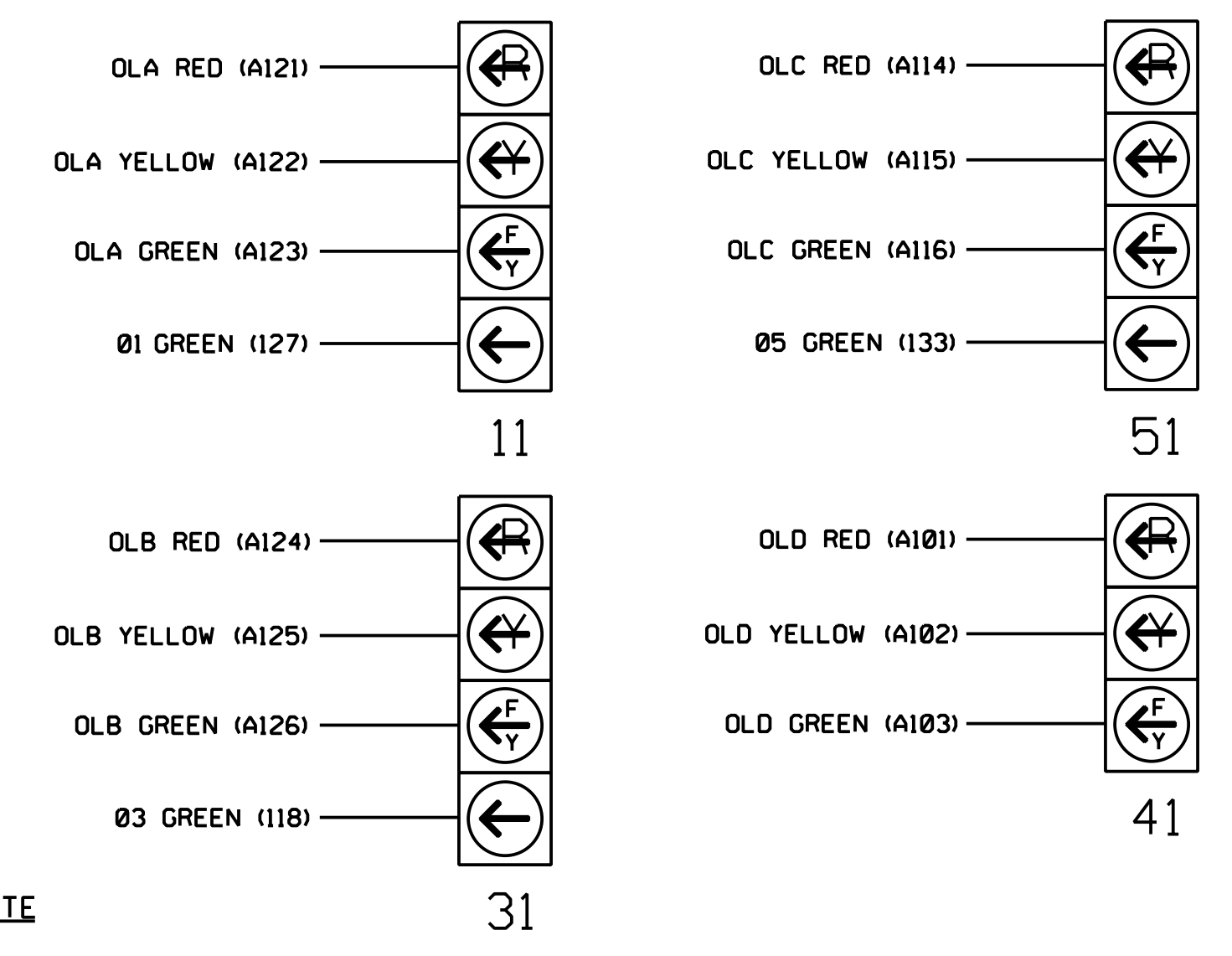
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6	
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18	
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE	
SIGNAL HEAD NO.	11	82	21,22	22	31	42,43	43	51	61,62	NU	NU	81,82	NU	11	31	NU	51	41	NU
RED		*	128	*	101	*	134		107										
YELLOW			129		102		135		108										
GREEN			130		103		136		109										
RED ARROW																A121	A124	A114	A101
YELLOW ARROW			126		117		132									A122	A125	A115	A102
FLASHING YELLOW ARROW																A123	A126	A116	A103
GREEN ARROW	127	127		118	118		133	133											

NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.
 * See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

The sequence display for signal heads 11, 31, and 51 requires special logic programming. See sheet 2 for programming instructions.

INPUT FILE POSITION LAYOUT

(front view)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 1	∅ 2	∅ 2	∅ 3	∅ 4	∅ 5	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12
I	ZONE 1A	ZONE 1B	ZONE 2A	ZONE 2A	ZONE 3A	ZONE 4A	ZONE 5A	ZONE 6A	ZONE 7A	ZONE 8A	ZONE 9A	ZONE 10A	ZONE 11A	ZONE 12A
L	NOT USED	NOT USED	∅ 2	∅ 2	NOT USED	∅ 4	∅ 5	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12
U	∅ 5	∅ 5	∅ 6	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14	∅ 15	∅ 16
J	ZONE 5A	ZONE 5B	ZONE 6A	ZONE 6A	ZONE 7A	ZONE 8A	ZONE 9A	ZONE 10A	ZONE 11A	ZONE 12A	ZONE 13A	ZONE 14A	ZONE 15A	ZONE 16A
L	NOT USED	NOT USED	∅ 6	∅ 6	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED

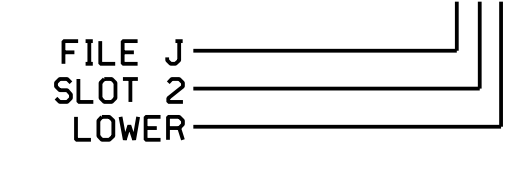
EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME
 * Wired Input - Do not populate slot with detector card

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
ZONE 1A	**	J1U	56	18	1	1	Y	Y			10
	-	J4U	48	10	26	6	Y	Y	Y		3
	-	J1U	56	18	51	1	Y	Y			3
ZONE 1B	**	J2U	39	1	2	1	Y	Y			15
ZONE 2A	**	J3U	63	25	32	2	Y	Y			
ZONE 2B	**	J3L	76	38	42	2	Y	Y			
ZONE 3A	**	J5U	58	20	3	3	Y	Y			10
	-	J8U	50	12	28	8	Y	Y			
ZONE 4A	**	J6U	41	3	4	4	Y	Y			3
ZONE 4B	**	J6L	45	7	14	4	Y	Y			
	**	J1U	55	17	5	5	Y	Y			10
ZONE 5A	-	J4U	47	9	22	2	Y	Y	Y		3
	-	J1U	55	17	55	5	Y	Y			3
ZONE 5B	**	J2U	40	2	6	5	Y	Y			15
ZONE 6A	**	J3U	64	26	36	6	Y	Y			
ZONE 6B	**	J3L	77	39	46	6	Y	Y			
ZONE 8A	**	J6U	42	4	8	8	Y	Y			

- Add jumper from J1-W to J4-W, on rear of input file.
 - Add jumper from J5-W to J8-W, on rear of input file.
 - Add jumper from J1-W to J4-W, on rear of input file.
- * See Input Page Assignment programming details on sheets 4 and 5.
 ** Multizone Microwave Detector Zone. See Special Detector Note.

INPUT FILE POSITION LEGEND: J2L



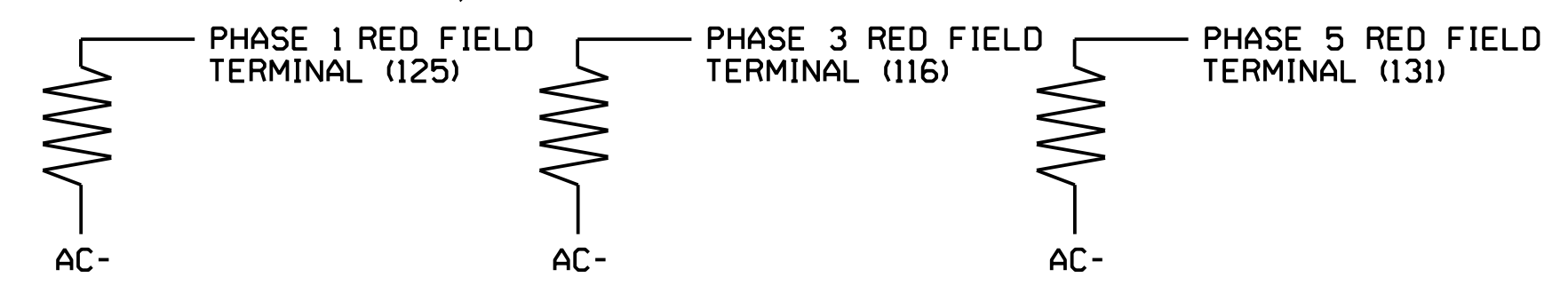
SPECIAL DETECTOR NOTE

Install a 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.

See vehicle detector setup programming detail for alternate phasing on sheets 4, 5, and 6.

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)



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

Electrical Detail - Sheet 1 of 6
 Signal Upgrade
 Temporary Design 1

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for:

US 17 (Market Street) at SR 1363 (Bayshore Drive) / SR 2717 (Torchwood Boulevard)

Division 03 New Hanover Co. Wilmington

PLAN DATE: February 2018 REVIEWED BY: A.D. Klinksiek
 PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons

REVISIONS: _____ INITI. _____ DATE _____

DocuSigned by:

8/1/2018

SIG. INVENTORY NO. 03-0369 T1

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