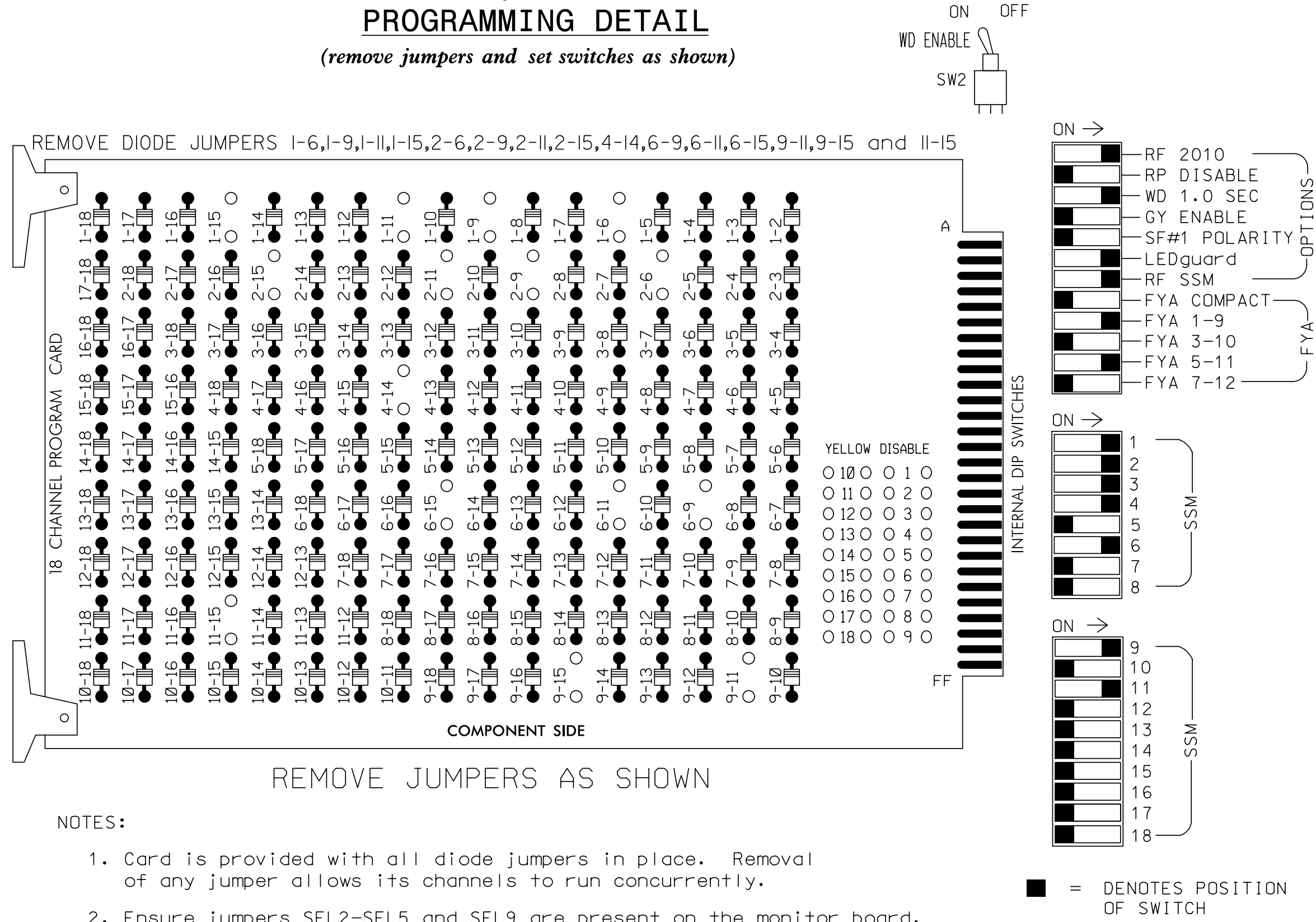


### EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL

(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.
- Enable Simultaneous Gap-Out for all phases.
- Program controller to start up in phase 2 Green and 6 Walk.
- The cabinet and controller are part of the Fayetteville Signal System.

### EQUIPMENT INFORMATION

CONTROLLER.....2070E  
 CABINET.....332 W/AUX  
 SOFTWARE.....ECONOLITE ASC/3-2070  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S1,S2,S4,S5,S6,S8,S9  
 AUX S1,AUX S4  
 PHASES USED.....1,2,3,4,4PED,6,6PED  
 OVERLAP "A".....\*  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....\*  
 OVERLAP "D".....NOT USED  
 \* See overlap programming detail on sheet 2

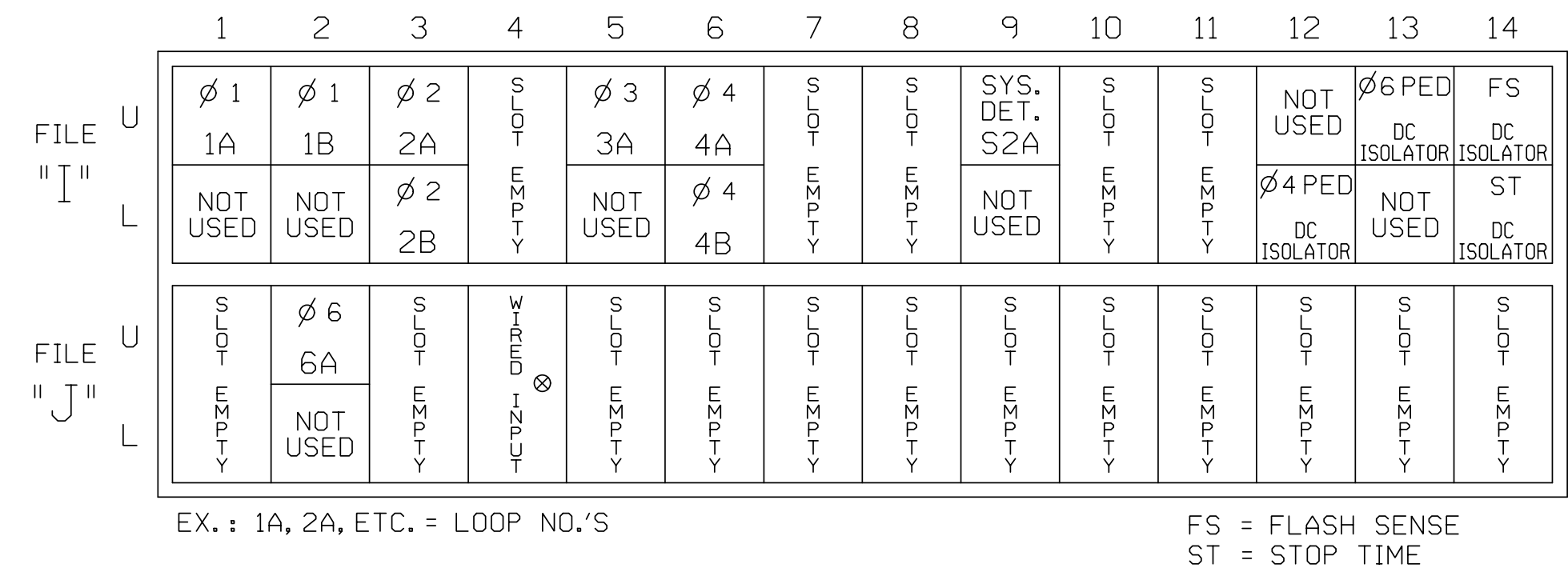
### SIGNAL HEAD HOOK-UP CHART

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
DMU 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★	32	22,23	31	32	41	42	P41, P42	61,62	P61, P62	NU	NU	11★	NU	NU	21★	NU	NU
RED	*	128		116	116	101	101			134								
YELLOW		129		117	117	102	102			135								
GREEN		130		118	118	103	103			136								
RED ARROW																A121		A114
YELLOW ARROW	126															A122		A115
FLASHING YELLOW ARROW																A123		A116
GREEN ARROW	127	127		118		103												
Hand								104		119								
Foot								106		121								

NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 ★ See pictorial of head wiring in detail this sheet.

### INPUT FILE POSITION LAYOUT

(front view)

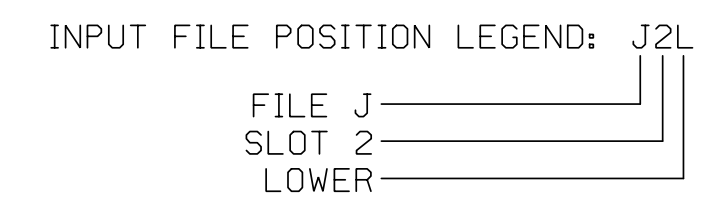


### INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	DETECTOR TYPE
1A <sup>1</sup>	TB2-1,2	I1U	56	1	1	YES		15	S
		J4U	48	26	6	YES			S
1B	TB2-5,6	I2U	39	2	1	YES		15	S
2A	TB2-9,10	I3U	63	32	2	YES			S
2B	TB2-11,12	I3L	76	42	2	YES			S
3A	TB4-5,6	I5U	58	3	3	YES		3	S
4A	TB4-9,10	I6U	41	4	4	YES		3	S
4B	TB4-11,12	I6L	45	14	4	YES		15	S
* S2A	TB6-9,10	I9U	60	11	SYS	NO			N
6A	TB3-5,6	J2U	40	6	6	YES			S
PED PUSH BUTTONS									
P41,P42	TB8-5,6	I12L	69	PED 4	4	PED			
P61,P62	TB8-7,9	I13U	68	PED 6	6	PED			

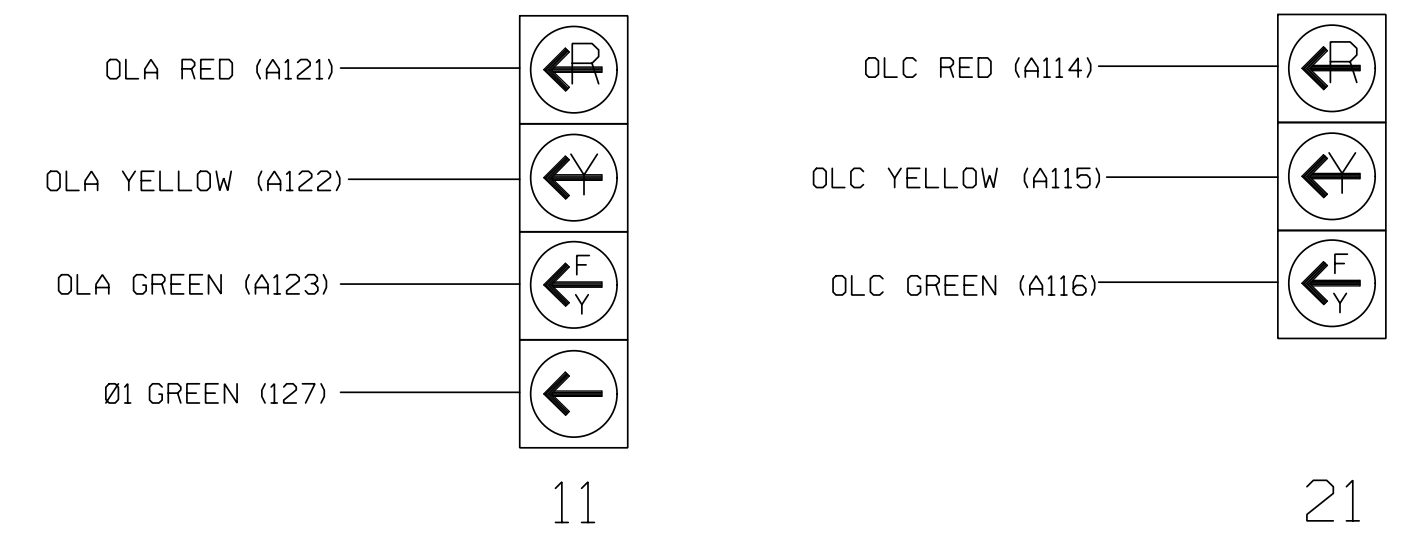
<sup>1</sup>Add jumper from I1-W to J4-W, on rear of input file.

\* System detector only. Remove any assigned vehicle phase.



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)

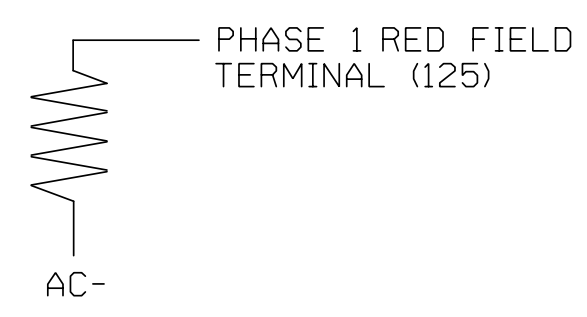


### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

ACCEPTABLE VALUES

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



Electrical Detail Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical and Programming Details For:

Prepared For: **Kimley-Horn**

PLANS PREPARED IN THE OFFICE OF: **Kimley-Horn**

NC License #F-0102  
 421 Fayetteville Street, Suite 600  
 Raleigh, NC 27601  
 (919) 677-2000

750 N. Greenfield Pkwy, Garner, NC 27529

NC 59 (Hope Mills Road) at Lakeview Drive / Trade Street

Division 6 Cumberland County Hope Mills

PLAN DATE: June 2016 REVIEWED BY: KP Baumann

PREPARED BY: SP Pennington REVIEWED BY: SL Phillips

REVISIONS: INIT. DATE

7/14/2016

SIG. INVENTORY NO. 06-0069

7/13/2016 K:\MAIL\_TPT\OK-SIGNALS\4011036345 Fayetteville Electrical\Coals\654 - Signal Design\mst-Submit\11 6-17-16\4291\_06-0069-2016e1.dgn Susan Pennington

## ECONOLITE ASC/3-2070 OVERLAP PROGRAMMING DETAIL

(program controller as shown)

1. From Main Menu select 2. CONTROLLER
2. From CONTROLLER Submenu select 2. VEHICLE OVERLAPS

### OVERLAP A

Select TMG VEH OVLP [A] and 'PPLT FYA'

```

TMG VEH OVLP...[A] TYPE: ....PPLT FYA
PROTECTED PHASE (LEFT TURN)..... 1
PERMISSIVE PHASE (OPPOSING THRU).... 2
FLASHING ARROW OUTPUT.....CH9 ISOLATE
DELAY START OF: FYA..0.0 CLEARANCE..0.0
ACTION PLAN SF BIT DISABLE..... 0
    
```

Toggle Twice

### OVERLAP C

Select TMG VEH OVLP [C] and 'OTHER/ECONOLITE'

```

TMG VEH OVLP...[C] TYPE: OTHER/ECONOLITE
PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
INCLUDED . . . . . X . . . . .
PROTECT . . . . .
PED PRTC . . . . .
NOT OVLP . . . . .
FLSH GRN . . . . . 1 . . . . .
LAG X PH . . . . .
LAG 2 PH . . . . .

LAG GRN 0.0 YEL 0.0 RED 0.0 ADV GRN 0.0
    
```

END PROGRAMMING

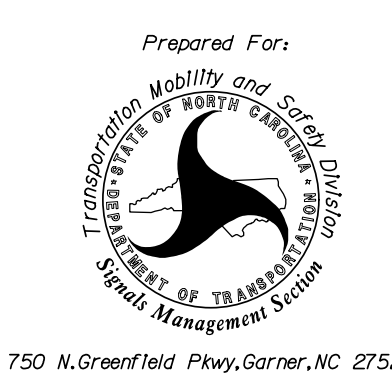
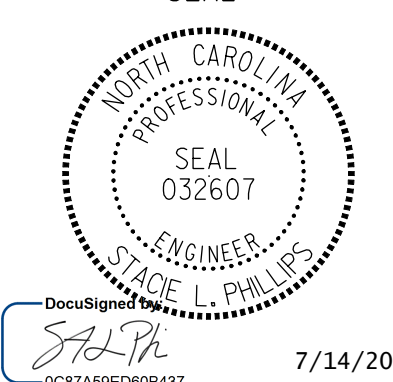
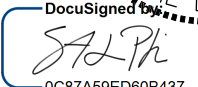
## COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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.

THIS ELECTRICAL DETAIL IS FOR  
 THE SIGNAL DESIGN: 06-0069  
 DESIGNED: June 2016  
 SEALED: 6/8/2016  
 REVISED:

Electrical Detail Sheet 2 of 2

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

<p style="font-size: x-small;">ELECTRICAL AND PROGRAMMING DETAILS FOR:</p> <div style="text-align: center;">  </div> <p style="font-size: x-small;">Prepared For:                  750 N. Greenfield Pkwy, Garner, NC 27529</p>	<p><b>NC 59 (Hope Mills Road) at Lakeview Drive / Trade Street</b></p> <p style="font-size: x-small;">Division 6 Cumberland County Hope Mills</p> <table style="width: 100%; font-size: x-small;"> <tr> <td>PLAN DATE: June 2016</td> <td>REVIEWED BY: SL Phillips</td> </tr> <tr> <td>PREPARED BY: SP Pennington</td> <td>REVIEWED BY: KP Baumann</td> </tr> </table> <table style="width: 100%; font-size: x-small;"> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	PLAN DATE: June 2016	REVIEWED BY: SL Phillips	PREPARED BY: SP Pennington	REVIEWED BY: KP Baumann	REVISIONS	INIT.	DATE							<p style="font-size: x-small;">SEAL</p> <div style="text-align: center;">  </div> <p style="font-size: x-small;">DESIGNED BY:                    DATE: 7/14/2016                  SIG. INVENTORY NO. 06-0069</p>
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REVISIONS	INIT.	DATE													

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