

## 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 'OTHER/ECONOLITE'

TMG VEH OVLP... [A] 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

Toggle Twice

OVERLAP C

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

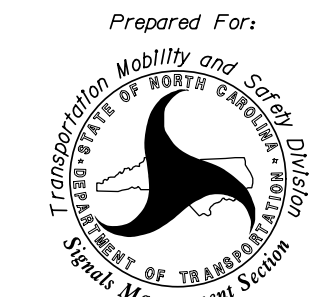
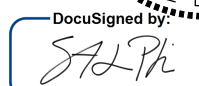
TMG VEH OVLP... [C] TYPE:	OTHER/ECONOLITE
PHASES	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
INCLUDED	. . . . . X . . . . .
PROTECT	. . . . .
PED PRTC	. . . . .
NOT OVLP	. . . . .
FLSH GRN	. . . . . 1 . . . . .
LAG X PH	. . . . .
LAG 2 PH	. . . . .
LAG GRN	0.0 YEL 0.0 RED 0.0 ADV GRN 0.0

END PROGRAMMING

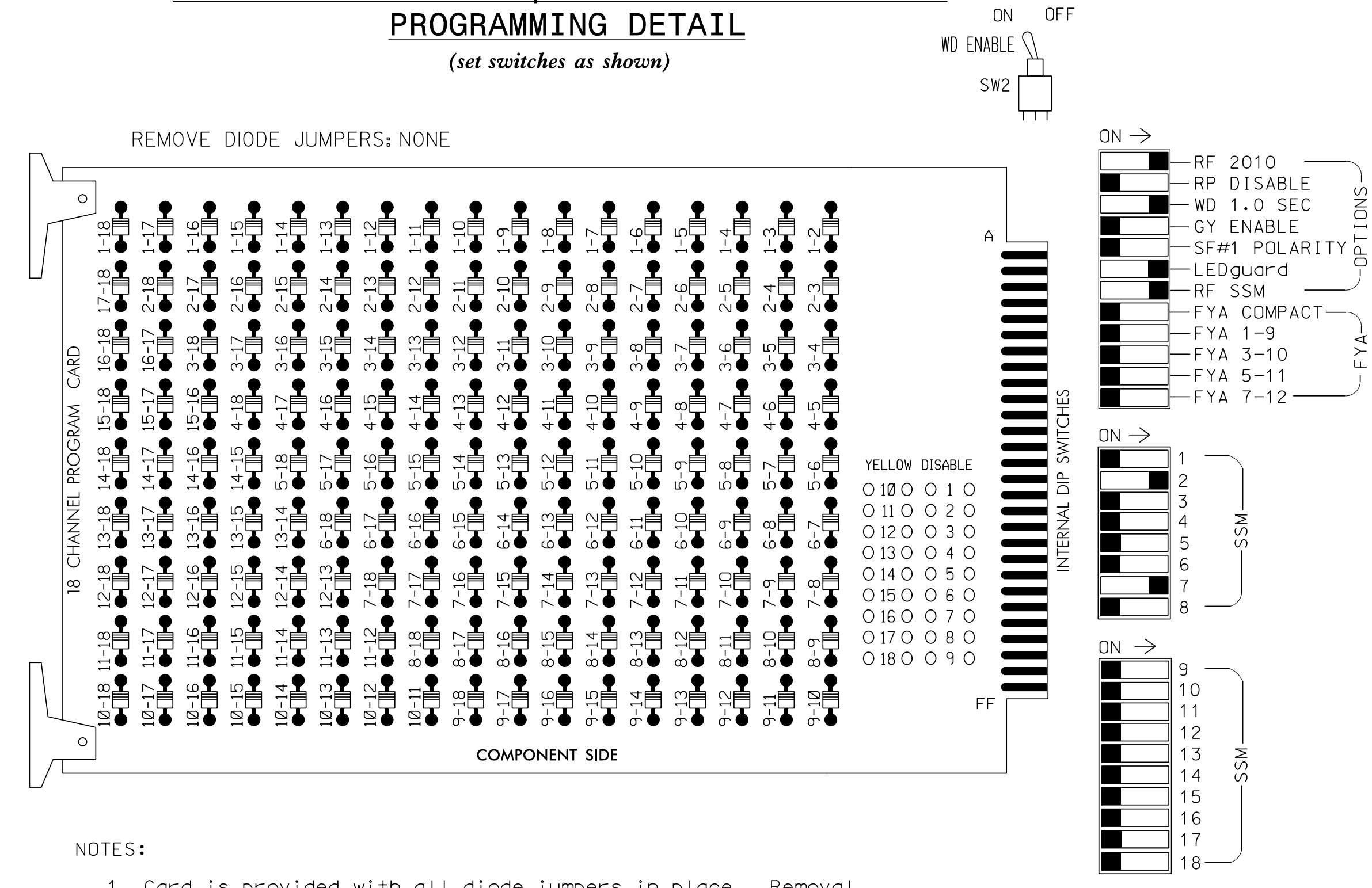
## COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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: 06-1339  
 DESIGNED: March 2016  
 SEALED: 5/6/2016  
 REVISED:

<p style="font-size: small;">ELECTRICAL AND PROGRAMMING DETAILS FOR:</p> <div style="text-align: center;">  <p style="font-size: x-small;">Prepared For: Transportation Mobility and Safety Division STATE OF NORTH CAROLINA Signal Management Section</p> </div> <p style="font-size: x-small;">750 N. Greenfield Pkwy, Garner, NC 27529</p>	<p><b>SR 1403 (South Reilly Road) at Jeffery Drive</b></p> <p style="font-size: x-small;">Division 6      Cumberland County      Fayetteville</p> <p style="font-size: x-small;">PLAN DATE: July 2016      REVIEWED BY: KP Baumann</p> <p style="font-size: x-small;">PREPARED BY: SP Pennington      REVIEWED BY: SL Phillips</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>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> </tbody> </table>	REVISIONS	INIT.	DATE										<p>SEAL</p> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 60px; margin: 0 auto;"> <p style="font-size: x-small; text-align: center;">NORTH CAROLINA PROFESSIONAL SEAL 032607 ENGINEER STACIE L. PHILLIPS</p> </div> <p style="font-size: x-small;">DocuSigned by:  0087A56E600B437</p> <p style="font-size: x-small;">9/16/2016 DATE</p> <p style="font-size: x-small;">SIG. INVENTORY NO. 06-1339</p>
REVISIONS	INIT.	DATE												

**EDI MODEL 2018ECLip-NC CONFLICT MONITOR**  
**PROGRAMMING DETAIL**  
*(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. Integrate monitor with Ethernet network in cabinet.

**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. Enable Simultaneous Gap-Out for all phases.
3. Program phase 2 for volume density operation.
4. Program controller to start up in 2 Green.
5. Program phase 6 for Red Flash.
6. The cabinet and controller are part of the Fayetteville Signal System.

**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	NU	NU	NU	NU	NU	NU	NU	71,72	73,74	NU	NU	NU	33,34	NU	NU	NU
RED		128									122							
YELLOW		129																
GREEN		130																
RED ARROW										122								
YELLOW ARROW										123	123							
GREEN ARROW										124	124							

NU = Not Used

**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.....S2,S10  
 PHASES USED.....2,7  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....NOT USED

**INPUT FILE POSITION LAYOUT**

*(front view)*

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS	∅2/SYS
L	2A/S2A	2A/S2A	2B/S2B											FS
L	∅2/SYS	∅2/SYS												DC ISOLATOR
L	2B/S2B													DC ISOLATOR
U						∅7	∅7							
L						7A	7C							
L						∅7	∅7							
L						7B	7D							

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

FS = FLASH SENSE  
 ST = STOP TIME

**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
2A/S2A	TB2-5,6	I2U	39	2	2	YES			N
2B/S2B	TB2-7,8	I2L	43	12	2	YES			N
7A	TB5-9,10	J6U	42	8	7	YES			S
7B	TB5-11,12	J6L	46	18	7	YES			S
7C	TB7-1,2	J7U	66	38	7	YES		10	S
7D	TB7-3,4	J7L	79	48	7	YES		10	S

INPUT FILE POSITION LEGEND: J2L

FILE J  
 SLOT 2  
 LOWER

THIS ELECTRICAL DETAIL IS FOR  
 THE SIGNAL DESIGN: 06-1305  
 DESIGNED: June 2016  
 SEALED: 6/3/2016  
 REVISED:

9/16/2016  
 K:\MAIL\_TPT\K\SIGNALS\4011036345 Fayetteville File Electrical\061305-2016e.dgn  
 Susan Pennington

Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared For: **Kimley-Horn**

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750 N. Greenfield Pkwy, Garner, NC 27529

SR 1600 (McArthur Road) at I-295 WB Ramp/Loop D

Division 6 Cumberland County Fayetteville

PLAN DATE: July 2016 REVIEWED BY: KP Baumann

PREPARED BY: SP Pennington REVIEWED BY: SL Phillips

REVISIONS INIT. DATE

9/16/2016

SIG. INVENTORY NO. 06-1305