

Project: U-2905A

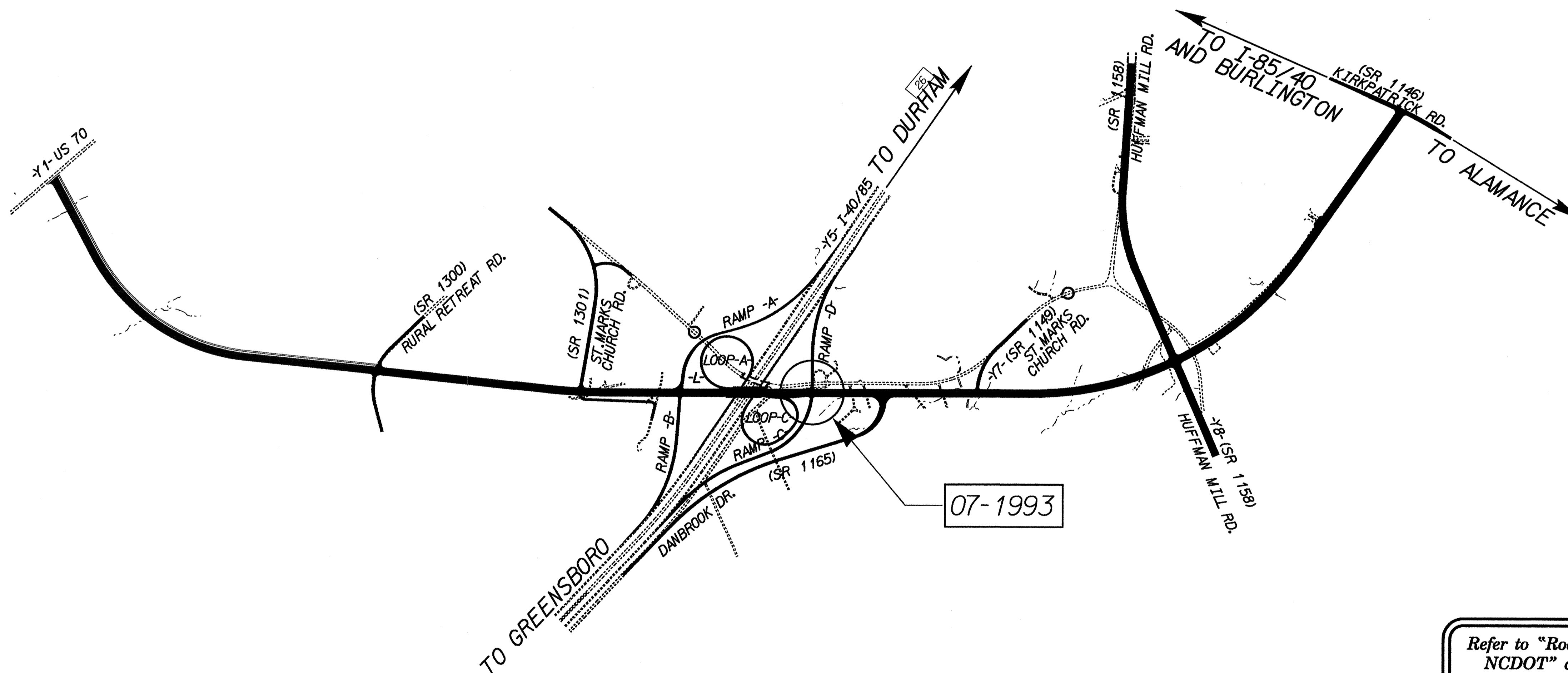
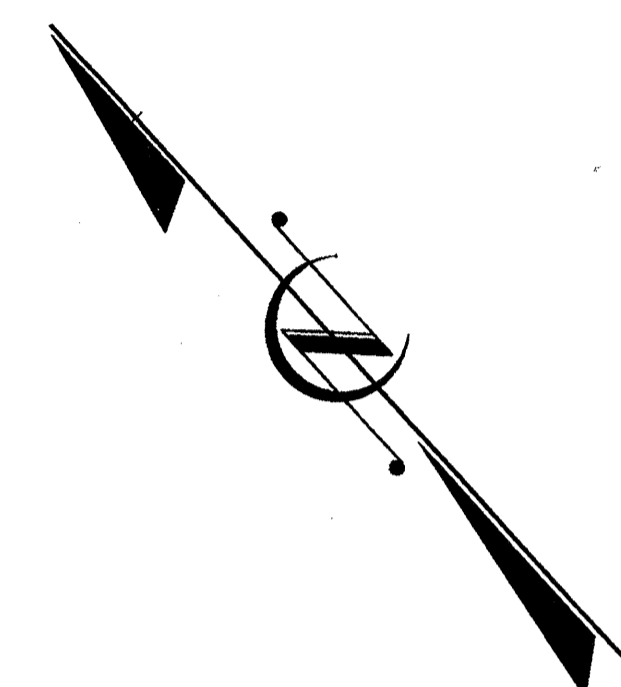
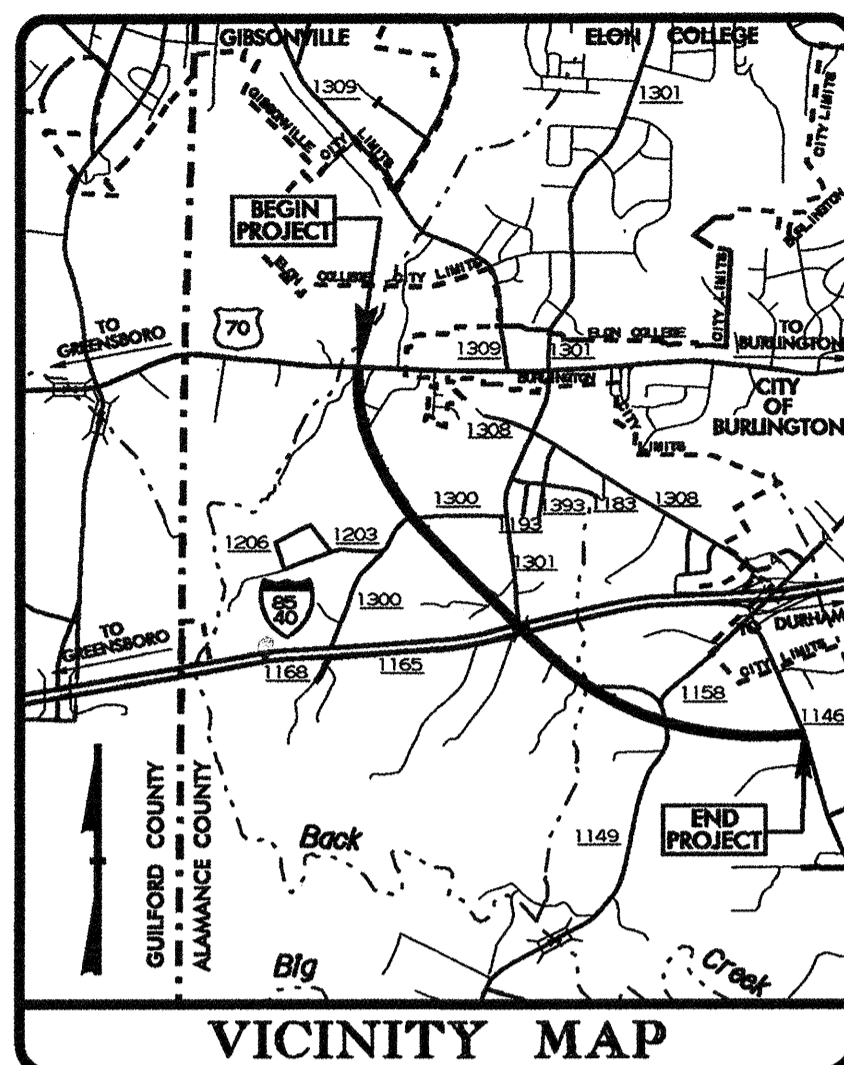
Project No.	Sheet No.
U-2905A	Sig. 1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ALAMANCE COUNTY

**LOCATION: BURLINGTON - WESTERN ALAMANCE LOOP
FROM US 70 TO SR 1146 (KIRKPATRICK RD.)**

TYPE OF WORK: TRAFFIC SIGNAL



Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.

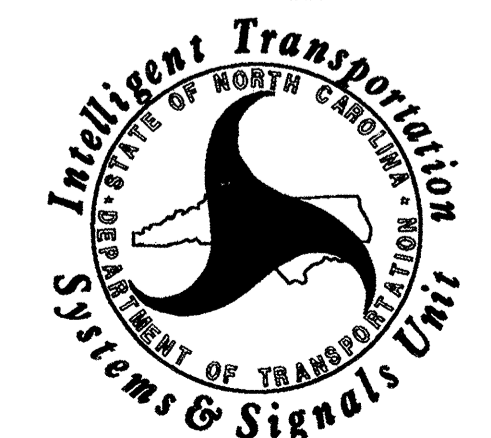
Sheet #	Signal Inventory	Index of Plans	Location/Description
Sig. 1	-----	Title Sheet	
Sig. 2-3	07-1993	Western Alamance Loop at I - 85 Eastbound Ramp	
Sig. 4	-----	Cabinet Component Layout Typical	

INTELLIGENT TRANSPORTATION AND SIGNALS UNIT

Contacts:

D. Y. Ishak - Signals and Geometrics Contracts Engineer
G. C. Brown, PE - Signal Equipment Design Engineer

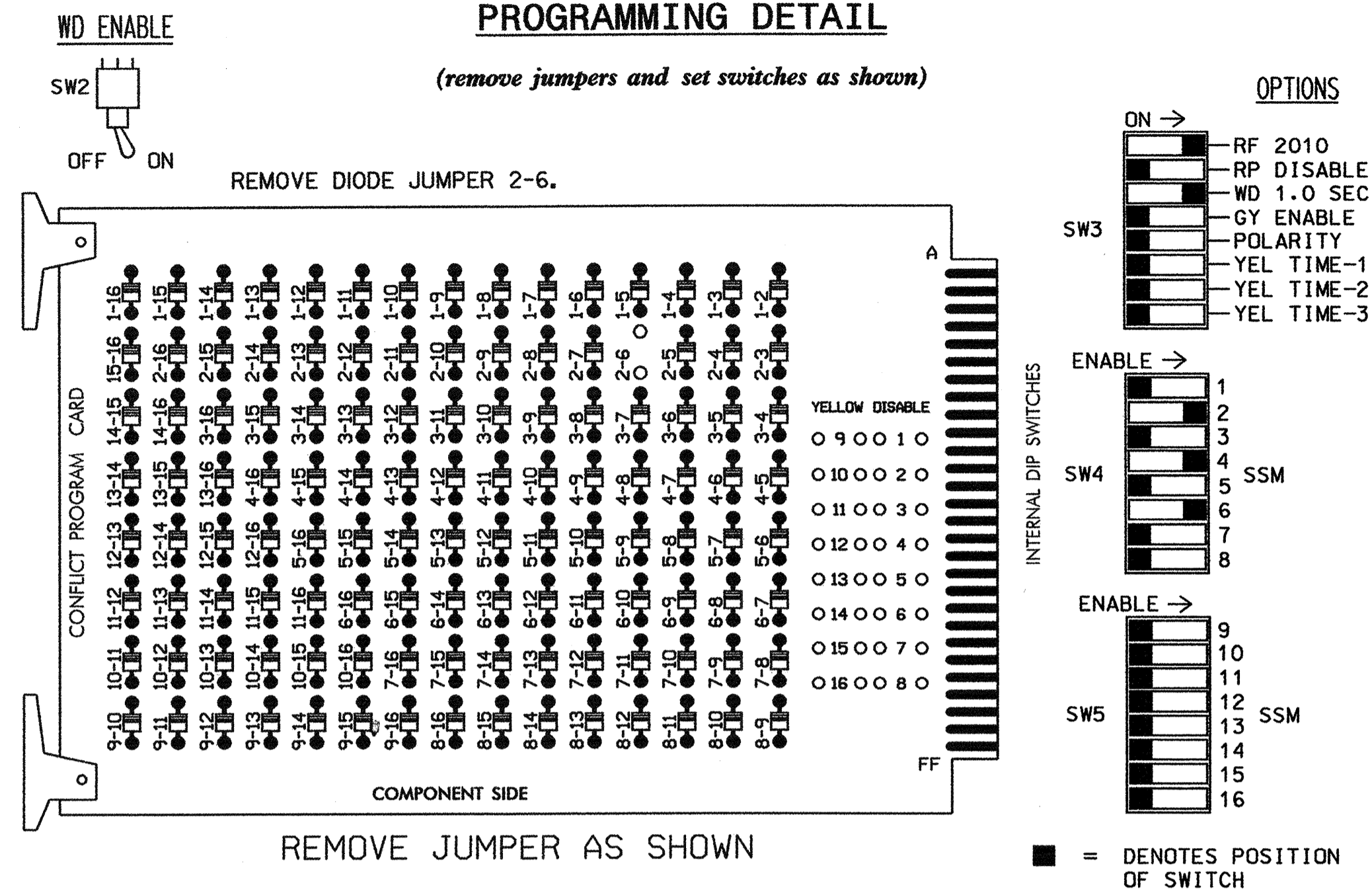
Prepared in the Office of:
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING AND SAFETY SYSTEMS
BRANCH



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EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL



NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Make sure jumpers SEL1-SEL5 are present on the monitor board.

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. Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 1,3,5,7, 8,9,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
3. Program phases 2 and 6, on the controller unit, for Start Up In Green.
4. Enable Simultaneous Gap-Out, on the controller unit, for all phases.
5. The cabinet and controller are part of the Burlington Closed Loop Signal System.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	NU	21,22	NU	NU	41, 42,43	NU	NU	61,62	NU	NU	NU	NU
RED		128			101			134				
YELLOW		129			102			135				
GREEN		130			103			136				
RED ARROW												
YELLOW ARROW												
GREEN ARROW												

NU = Not Used

EQUIPMENT INFORMATION

CONTROLLER.....EAGLE 2070L
 CABINET.....EAGLE 332
 SOFTWARE.....SE-PAC2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S4,S6
 PHASES USED.....2,4,6
 OVERLAPS.....NONE

INPUT FILE POSITION LAYOUT

(front view)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE U	∅ 2	2A,2B	∅ 2	∅ 2	∅ 2	∅ 4	∅ 4	∅ 4	SYS. DET. S12-13	∅ 4	∅ 4	∅ 4	∅ 4	FS DC ISOLATOR
FILE L	∅ 2	2C,2D	∅ 2	∅ 2	∅ 2	∅ 4	∅ 4	∅ 4	SYS. DET. S12-14	∅ 4	∅ 4	∅ 4	∅ 4	FS DC ISOLATOR
FILE U	∅ 6	6A,6B	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	SYS. DET. SD11	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6
FILE L	∅ 6	6C,6D	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	SYS. DET. SD12	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6

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.	DETECTOR NO.	NEMA PHASE	FULL TIME DELAY	STRETCH TIME	DELAY TIME
2A,2B	TB2-5,6	I2U	3	2		2.0	
2C,2D	TB2-7,8	I2L	4	2			
4A	TB4-9,10	I6U	11	4			
4B	TB4-11,12	I6L	12	4			
4C	TB6-1,2	I7U	13	4			15
4D	TB6-3,4	I7L	14	4			
*S12-13	TB6-9,10	I9U	17	SYS			
*S12-14	TB6-11,12	I9L	18	SYS			
6A,6B	TB3-5,6	J2U	21	6		2.0	
6C,6D	TB3-7,8	J2L	22	6			
*SD11	TB7-9,10	J9U	37	SYS			
*SD12	TB7-11,12	J9L	38	SYS			

* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

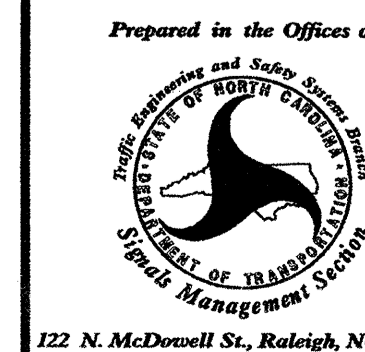
INPUT FILE POSITION LEGEND: J2L



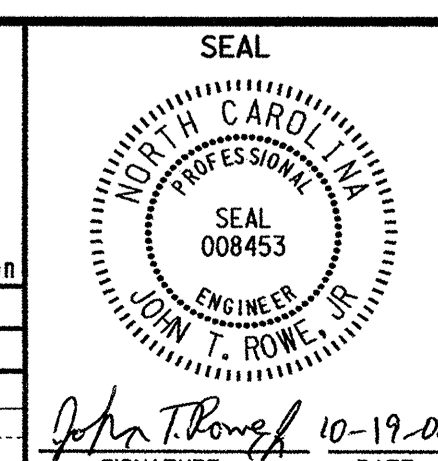
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1993
 DESIGNED: January 2006
 SEALED: 10/03/06
 REVISED: NA

Signal Upgrade

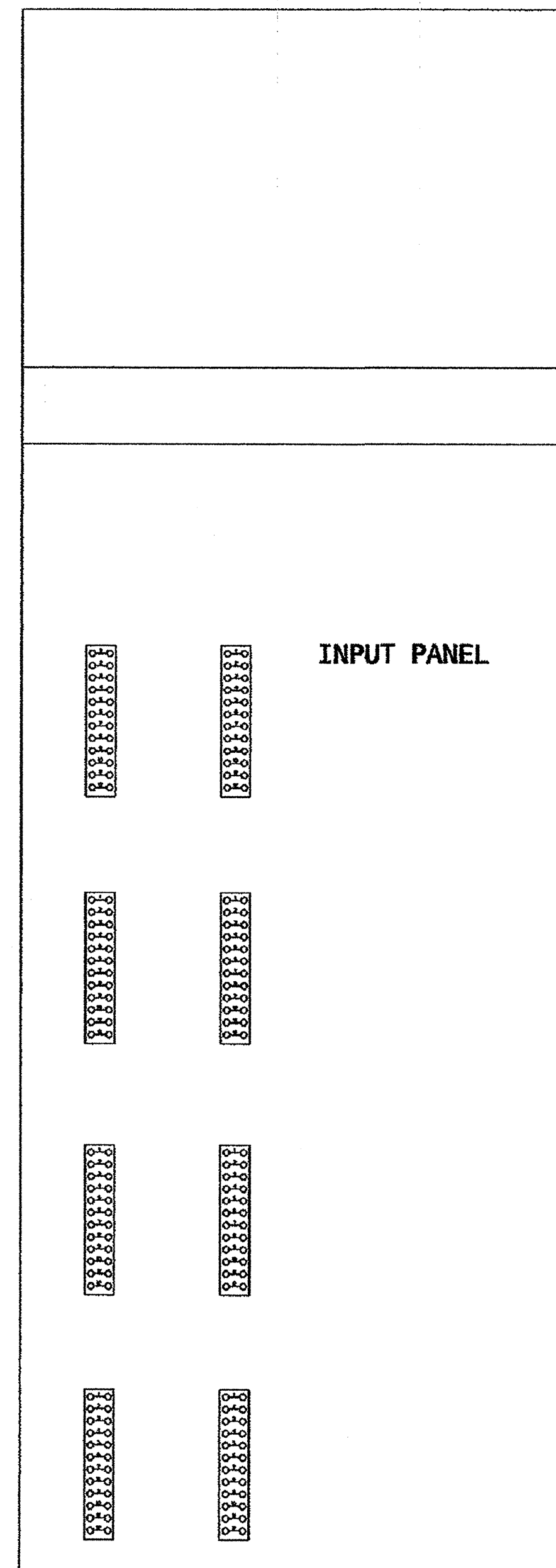
ELECTRICAL AND PROGRAMMING DETAILS FOR:



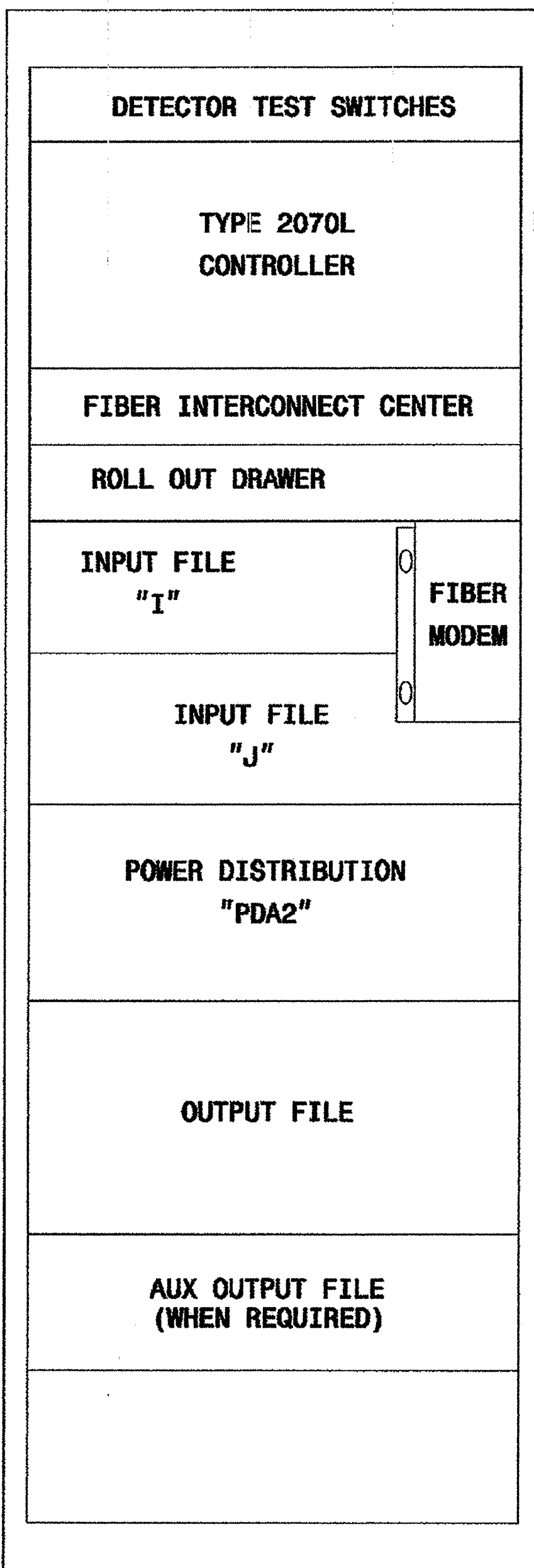
Western Alamance Loop at I-85 Eastbound Ramps	
Division 07 Alamance Co. Burlington	
PLAN DATE: October 2006	REVIEWED BY: JWP
PREPARED BY: James Peterson	REVIEWED BY:
REVISIONS	INIT. DATE



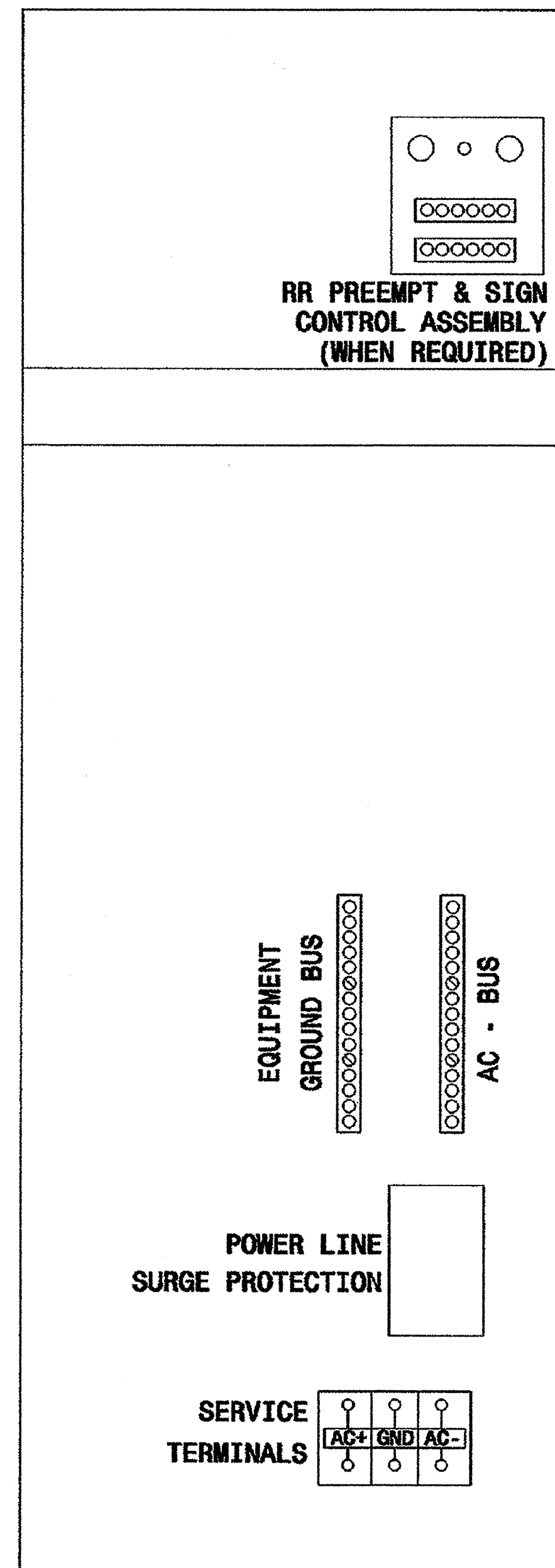
SIG. INVENTORY NO. 07-1993



332A CABINET
LEFT SIDE



332A CABINET



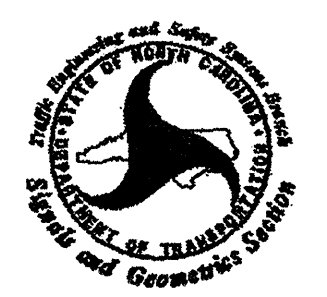
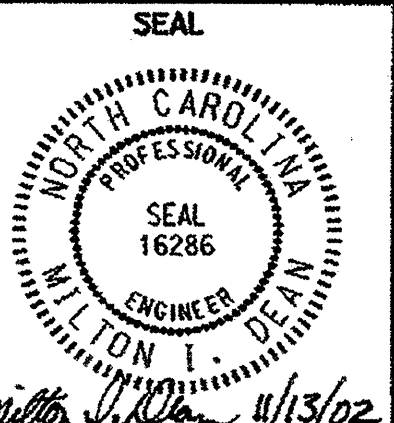
332A CABINET
RIGHT SIDE

REAR VIEW

NOTE

-PROVIDE A 50 MM SPACE BETWEEN THE CONTROLLER AND THE ROLL OUT DRAWER TO ACCOMMODATE A FIBER INTERCONNECT CENTER.

Typical Drawing

	Cabinet Component Layout 170 Cabinet Model 332A with 2070L Controller		
	PLAN DATE: October 2002 PREPARED BY: P L Alexander	REVIEWED BY: REVIEWED BY:	
222 N. McDowell St., Raleigh, NC 27603		SIGNATURE: <i>Milton J. Dean</i> 4/13/02 DATE	SIG. INVENTORY NO. NA