

MAINTENANCE MANUAL
TIMING CONCENTRATOR BOARD
ROA 117 2210
(Cat Option IX VP002)

TABLE OF CONTENTS	
	Page
DESCRIPTION	Front cover
PARTS LIST	Front cover
OUTLINE DIAGRAM	1
SCHEMATIC DIAGRAM	1
CABLING DIAGRAM	2
INTRAPLEX MUX CONTROL POINT CROSS CONNECT	2
INTRAPLEX MUX CONTROL POINT TWO SITE INTERFACED	3
CONFIGURATION DIAGRAM	4
VOTER/MICROWAVE INTERFACE CABINET (RS232 DATA) (10/15/20/24 CHANNEL)	4
VOTER/MICROWAVE INTERFACE CABINET (RS232 DATA) (DUAL 5 CHANNEL)	5

DESCRIPTION

Timing Concentrator Board ROA 117 2210 is used in RS232 versions of simulcast systems to provide the clock interface between the individual site interface point and the timing interface module (Refer to Maintenance Manual LBI-39099). This timing concentrator board consists of 10, 6-position modular jacks (J11 through J20) and one 25-pair connector (J1). The concentrator board receives three inputs from each of up to 10 sites (maximum of 30) and routes the clock reference signals to the timing interface module through connector J1 (Refer to Cabling Diagram 19C852615, Sh. 1 and 3).

The Timing Concentrator Board mounts in the RIC Cross Connect Panel 19D904009G21 (Refer to Configuration Drawing 188D5012, Sheets 2 and 4).

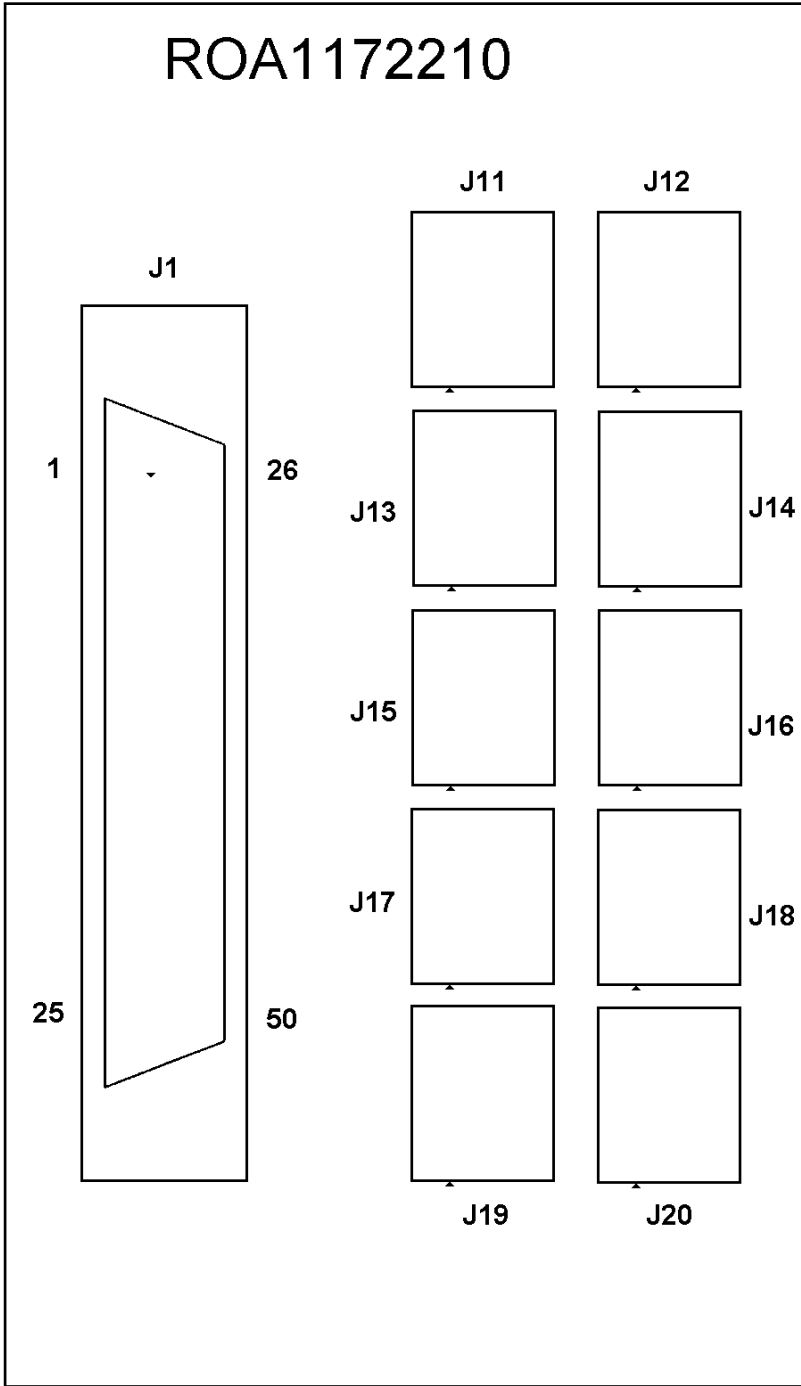
PARTS LIST

TIMING CONCENTRATOR BOARD
ROA 117 2210

SYMBOL	PART NUMBER	DESCRIPTION
		--CONNECTORS--
J1	RNT403237/050	Connector: 25-pair
J11 thru J20	RNV40304/6	Modular Jack: 6-position
		--MISCELLANEOUS--
	344A3916P408	TORX: 4/40 x 1/4", Black plated



Ericsson Inc.
Private Radio Systems
Mountain View Road
Lynchburg, Virginia 24502
1-800-528-7711 (Outside USA, 804-528-7711)



TIMING CONCENTRATOR BOARD
(TVA1172207)

J1 (TO J3 TIMING PANEL)

J1) 1 SE2IN1	J1) 26 SE2IN2
J1) 2 SE2IN3	J1) 27 SE2IN4
J1) 3 SE2IN5	J1) 28 SE2IN6
J1) 4 SE2IN7	J1) 29 SE2IN8
J1) 5 SE2IN9	J1) 30 SE2IN10
J1) 6 SE2IN11	J1) 31 SE2IN12
J1) 7 SE2IN13	J1) 32 SE2IN14
J1) 8 SE2IN15	J1) 33 SE2IN16
J1) 9 SE2IN17	J1) 34 SE2IN18
J1) 10 SE2IN19	J1) 35 SE2IN20
J1) 11 SE2IN21	J1) 36 SE2IN22
J1) 12 SE2IN23	J1) 37 SE2IN24
J1) 13 SE2IN25	J1) 38 SE2IN26
J1) 14 SE2IN27	J1) 39 SE2IN28
J1) 15 SE2IN29	J1) 40 SE2IN30
J1) 16	J1) 41
J1) 17	J1) 42
J1) 18	J1) 43
J1) 19	J1) 44
J1) 20	J1) 45
J1) 21	J1) 46
J1) 22	J1) 47
J1) 23	J1) 48
J1) 24	J1) 49
J1) 25	J1) 50

J11

J11) 1 SE2IN1
J11) 2 SE2IN2
J11) 3 SE2IN3
J11) 4

J16

J16) 1 SE2IN16
J16) 2 SE2IN17
J16) 3 SE2IN18
J16) 4

J12

J12) 1 SE2IN4
J12) 2 SE2IN5
J12) 3 SE2IN6
J12) 4

J17

J17) 1 SE2IN19
J17) 2 SE2IN20
J17) 3 SE2IN21
J17) 4

J13

J13) 1 SE2IN7
J13) 2 SE2IN8
J13) 3 SE2IN9
J13) 4

J18

J18) 1 SE2IN22
J18) 2 SE2IN23
J18) 3 SE2IN24
J18) 4

J14

J14) 1 SE2IN10
J14) 2 SE2IN11
J14) 3 SE2IN12
J14) 4

J19

J19) 1 SE2IN25
J19) 2 SE2IN26
J19) 3 SE2IN27
J19) 4

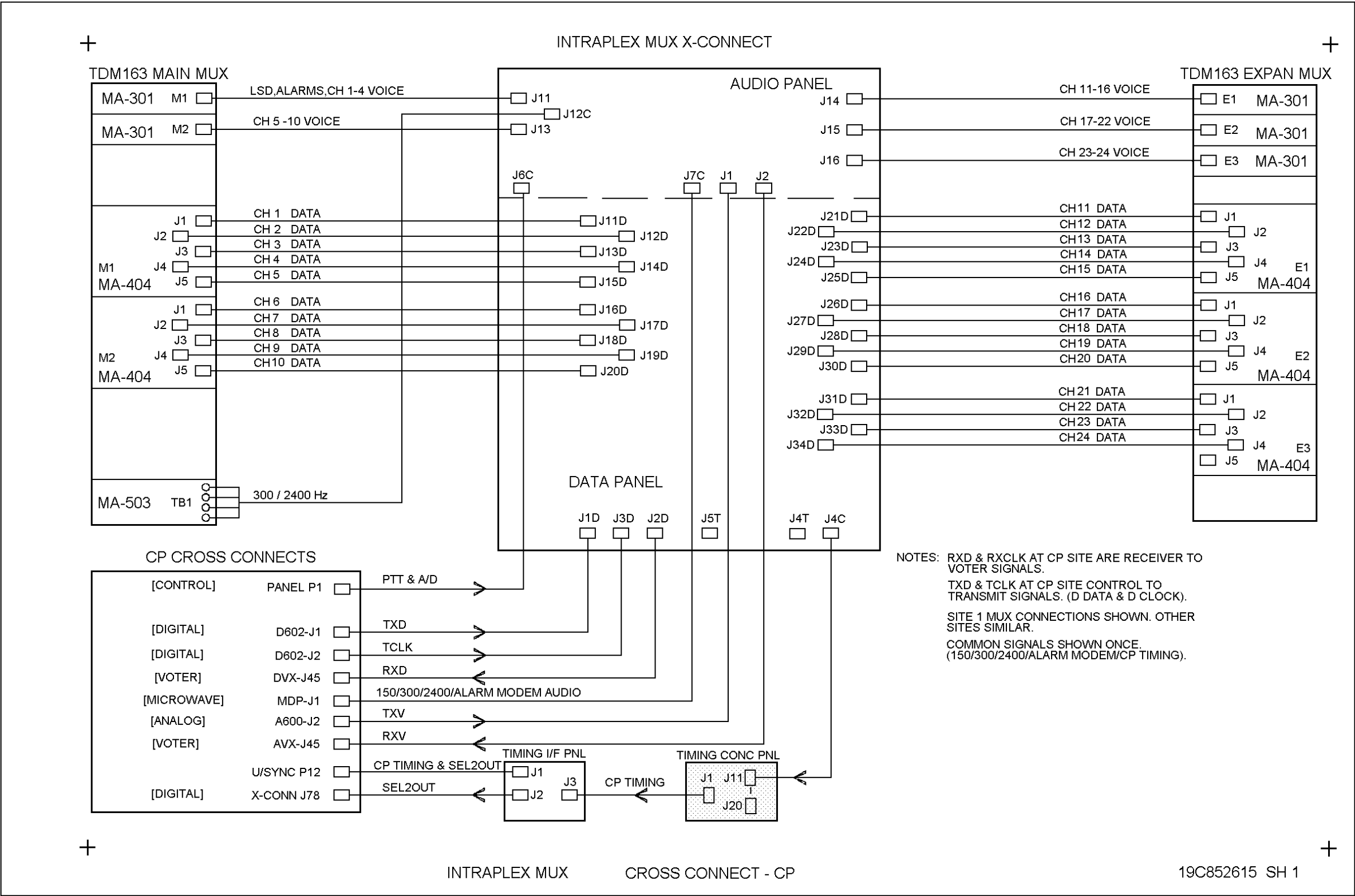
J15

J15) 1 SE2IN13
J15) 2 SE2IN14
J15) 3 SE2IN15
J15) 4

J20

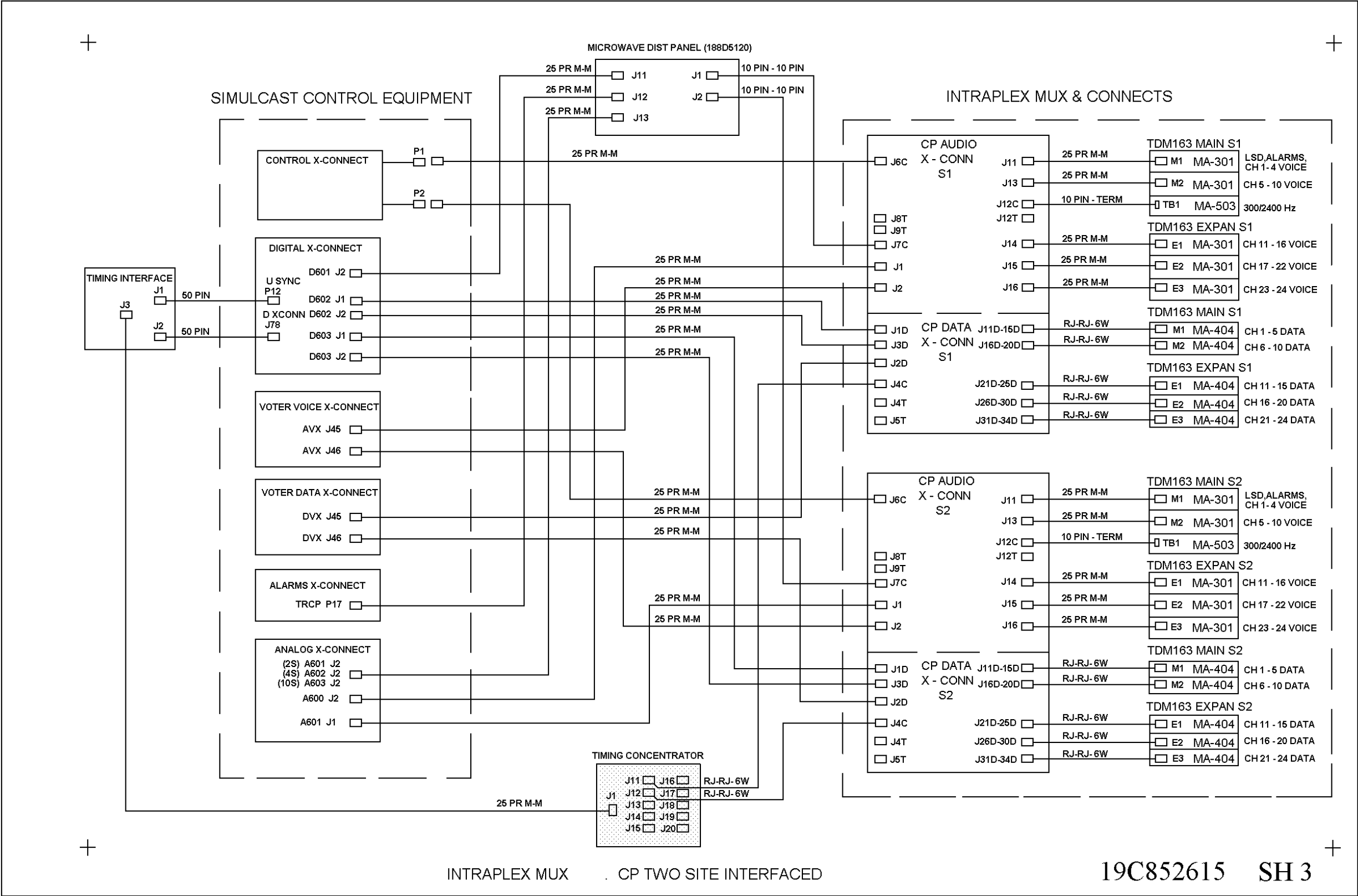
J20) 1 SE2IN28
J20) 2 SE2IN29
J20) 3 SE2IN30
J20) 4

TIMING CONCENTRATOR BOARD
(1911-ROA1172210)



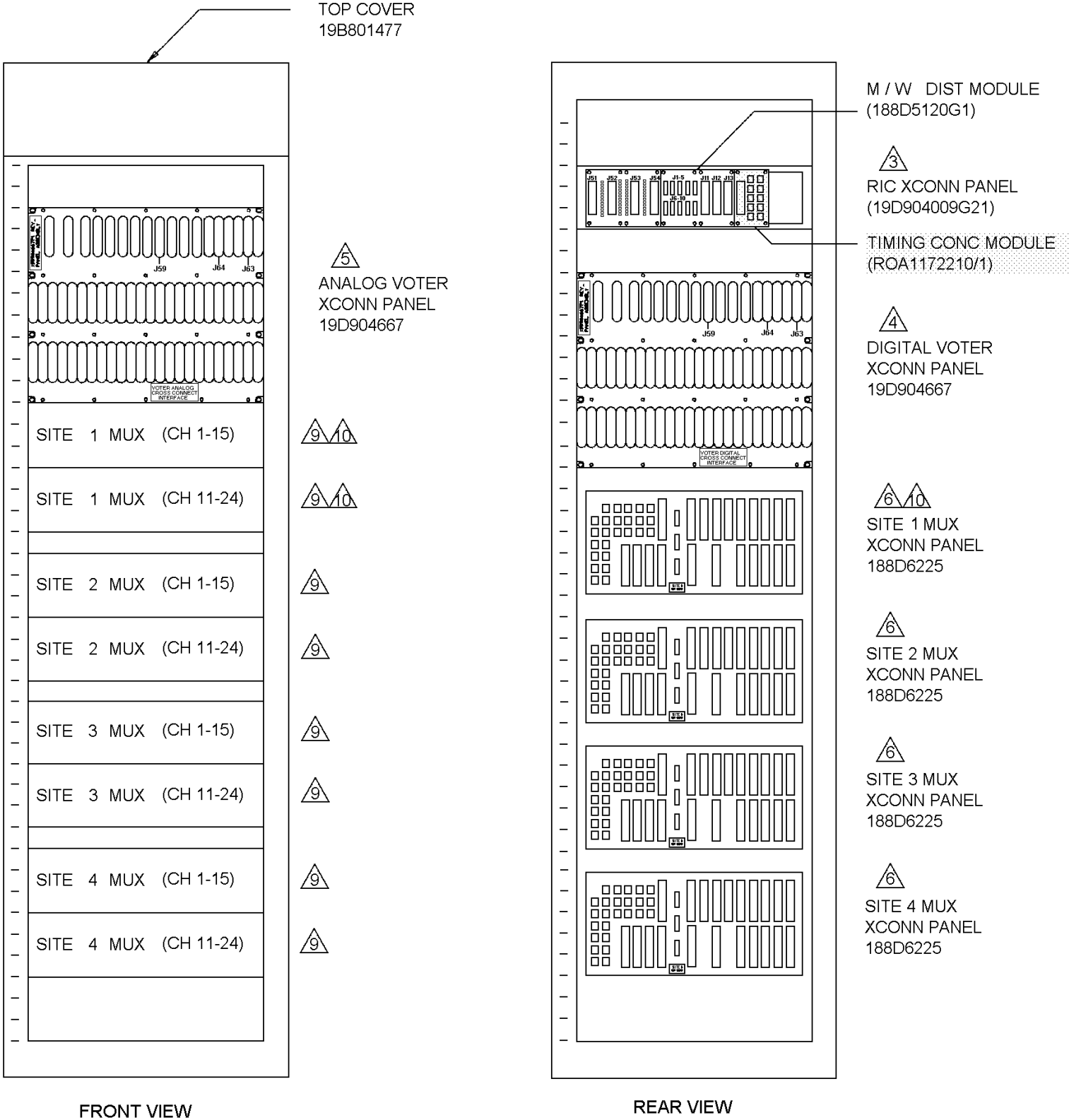
INTRAPLEX MUX CONTROL POINT CROSS CONNECT

(19C851615, Sh. 1, Rev. 1)



INTRAPLEX MUX CONTROL POINT CROSS CONNECT

(19C852615, Sh. 3, Rev. 1)

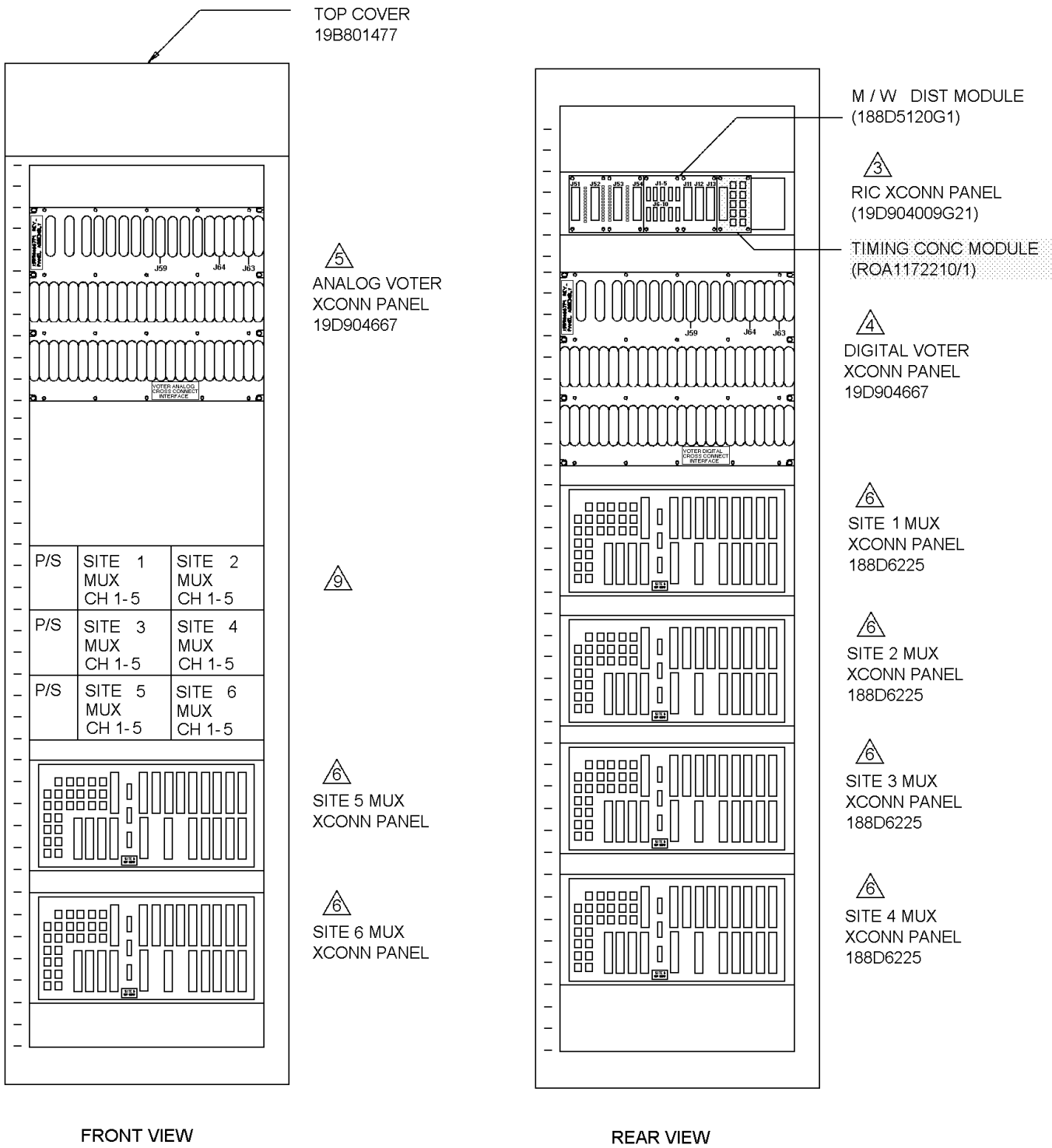


- NOTES:
1. LABELING
PLACE "VOTER DIGITAL CROSS CONNECT INTERFACE" LABEL ON REAR CROSS CONNECT PANEL
PLACE "VOTER ANALOG CROSS CONNECT INTERFACE" LABEL ON FRONT CROSS CONNECT PANEL
PLACE "SITE -- MUX XCONN" LABEL ON MUX CROSS CONNECT PANEL
 2. WIRING
SEE 350A1219 FOR INTERNAL RACK WIRING CONNECTION LIST
 3. ENABLE APPLICABLE RIC CIRCUITS (REF 19D904679 DIAGRAM)
 4. FOR CONNECTOR PIN-OUT DETAILS SEE 19D904931
 5. FOR CONNECTOR PIN-OUT DETAILS SEE 19D904932
 6. FOR CONNECTOR PIN-OUT DETAILS SEE 19C852611
 7. LOCATE FRONT MOUNTING RAILS 3 INCHES FROM FRONT OF CABINET
 8. SEE 19C852600 FOR MICROWAVE INTERFACE FIELD WIRING DIAGRAM
SEE 19C337787 FOR VOTER INTERFACE FIELD WIRING DIAGRAM
 9. SEE 19C852610 FOR SHELF ASSEMBLY DETAILS
BRACE MUX SHELVES WITH 19D904490P1 SUPPORTS
 10. IF SITE 1 IS CO-LOCATED, NO C/P MUX OR X-CONN IS REQUIRED

VOTER/MICROWAVE INTERFACE CABINET
(RS232 DATA) (10/15/20/24 CHANNEL)

(188D5012, Sh. 2, Rev. 1A)

3 VOTER/MICROWAVE INTERFACE CABINET (RS232 DATA)
(10/15/20/24 CHANNEL CONFIGURATION)



- NOTES:
1. LABELING
PLACE "VOTER DIGITAL CROSS CONNECT INTERFACE" LABEL ON REAR CROSS CONNECT PANEL
PLACE "VOTER ANALOG CROSS CONNECT INTERFACE" LABEL ON FRONT CROSS CONNECT PANEL
PLACE "SITE -- MUX XCONN" LABEL ON MUX CROSS CONNECT PANEL
 2. WIRING
SEE 350A1219 FOR INTERNAL RACK WIRING CONNECTION LIST
 3. ENABLE APPLICABLE RIC CIRCUITS (REF 19D904679 DIAGRAM)
 4. FOR CONNECTOR PIN-OUT DETAILS SEE 19D904931
 5. FOR CONNECTOR PIN-OUT DETAILS SEE 19D904932
 6. FOR CONNECTOR PIN-OUT DETAILS SEE 19C852611
 7. LOCATE FRONT MOUNTING RAILS 3 INCHES FROM FRONT OF CABINET
 8. SEE 19C852600 FOR MICROWAVE INTERFACE FIELD WIRING DIAGRAM
SEE 19C337787 FOR VOTER INTERFACE FIELD WIRING DIAGRAM
 9. SEE 19C852610 FOR SHELF ASSEMBLY DETAILS
BRACE MUX SHELVES WITH 19D904490P1 SUPPORTS
 10. IF SITE 1 IS CO-LOCATED, NO C/P MUX OR X-CONN IS REQUIRED

5 VOTER/MICROWAVE INTERFACE CABINET (RS232 DATA)
(DUAL 5 CHANNEL CONFIGURATION)

VOTER/MICROWAVE INTERFACE CABINET
(RS232 DATA) (DUAL 5 CHANNEL)

(188D5012, Sh. 4, Rev. 1A)