

UNIT 2 - MAIN BREAKER

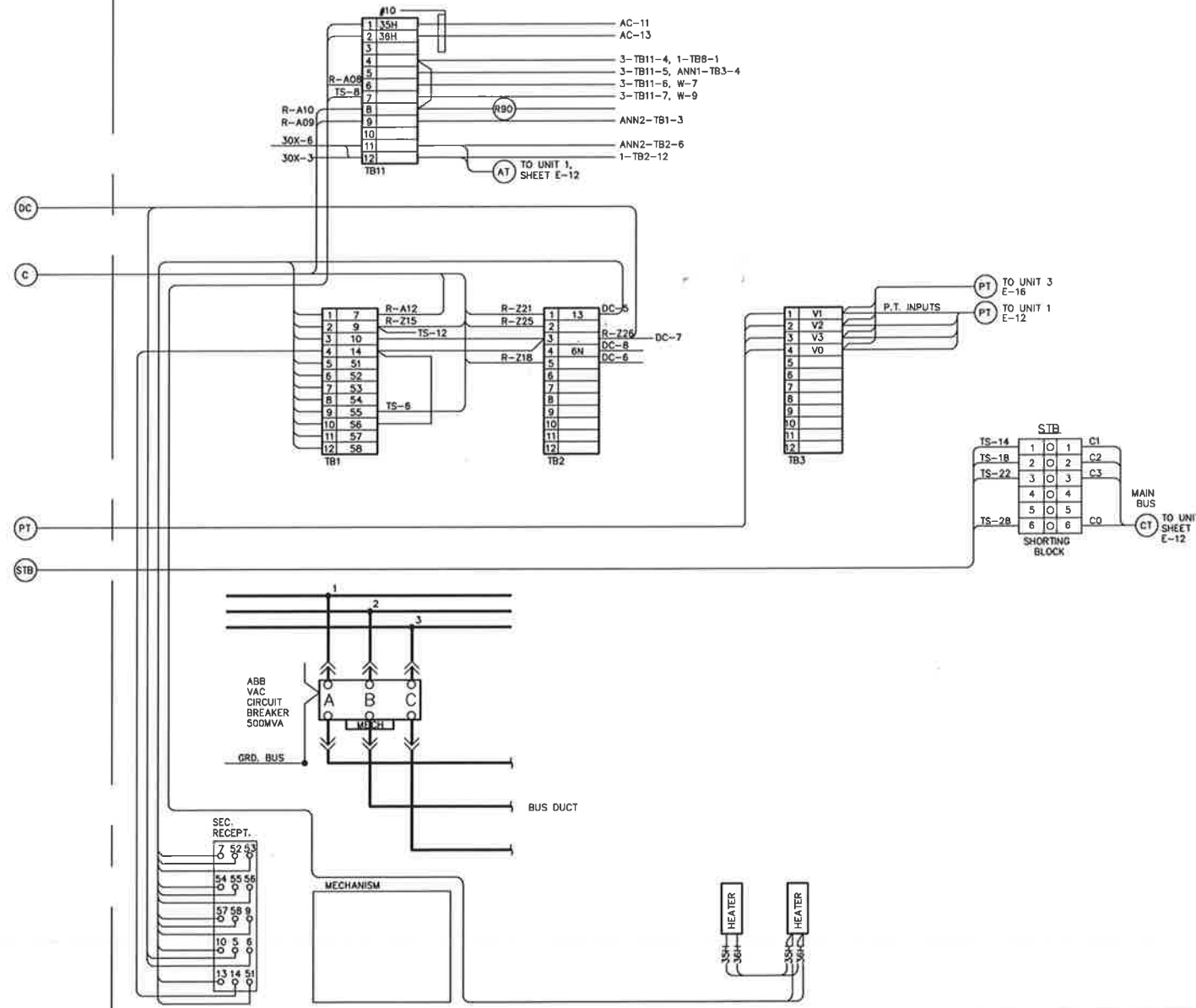
HINGED PANEL (RV)

CELL (FV)

SEL-315S

TS

FOR THIS PANEL, SEE SH E-15



- \* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE EQUIPMENT.
- H - CELL SWITCH, WHEN SUPPLIED SHOWN FOR BREAKER IN TEST POSITION.
- S - MOC SWITCH, WHEN SUPPLIED SHOWN FOR BREAKER IN OPEN POSITION.
- SB - SHORT CIRCUITING TERMINAL BLOCK.
- P - PULL FUSE
- DF - DUMMY FUSE

- NOTE TO CUSTOMER**
1. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.
  2. PANEL CONNECTIONS SHOWN AS VIEWED FROM REAR EXCEPT AS NOTED.
  3. CONNECTIONS ARE FOR PHASE SEQUENCE 1-2-3.
  4. DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.
  5. INSTANTANEOUS TRIPS ARE TIED TO THE TRIP CIRCUIT USING THIS JUMPER. IF INSTANTANEOUS TRIPS ARE TO BE CUT-OUT DURING RECLOSER OPERATION, THIS JUMPER MUST BE REMOVED.
  6. ⑥ DEV 90 A+ LTC
  7. ⑦ XFMR/LTC ALARMS, LOSS OF VOLTAGE, FANS ON
  8. ⑧ XFMR HIGH OIL TEMP. XFMR & LTC LOW OIL



DSGN	H STREED
DR	Y4336E14
CHK	T WEBSTER
APVD	M BEANLAND

NO.	DATE	REVISION	BY	APVD

**REUSE OF DOCUMENTS**

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF TRIAXIS ENGINEERING, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF TRIAXIS ENGINEERING, INC.

**VERIFY SCALES**

BAR IS ONE INCH ON ORIGINAL DRAWING

0 ————— 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

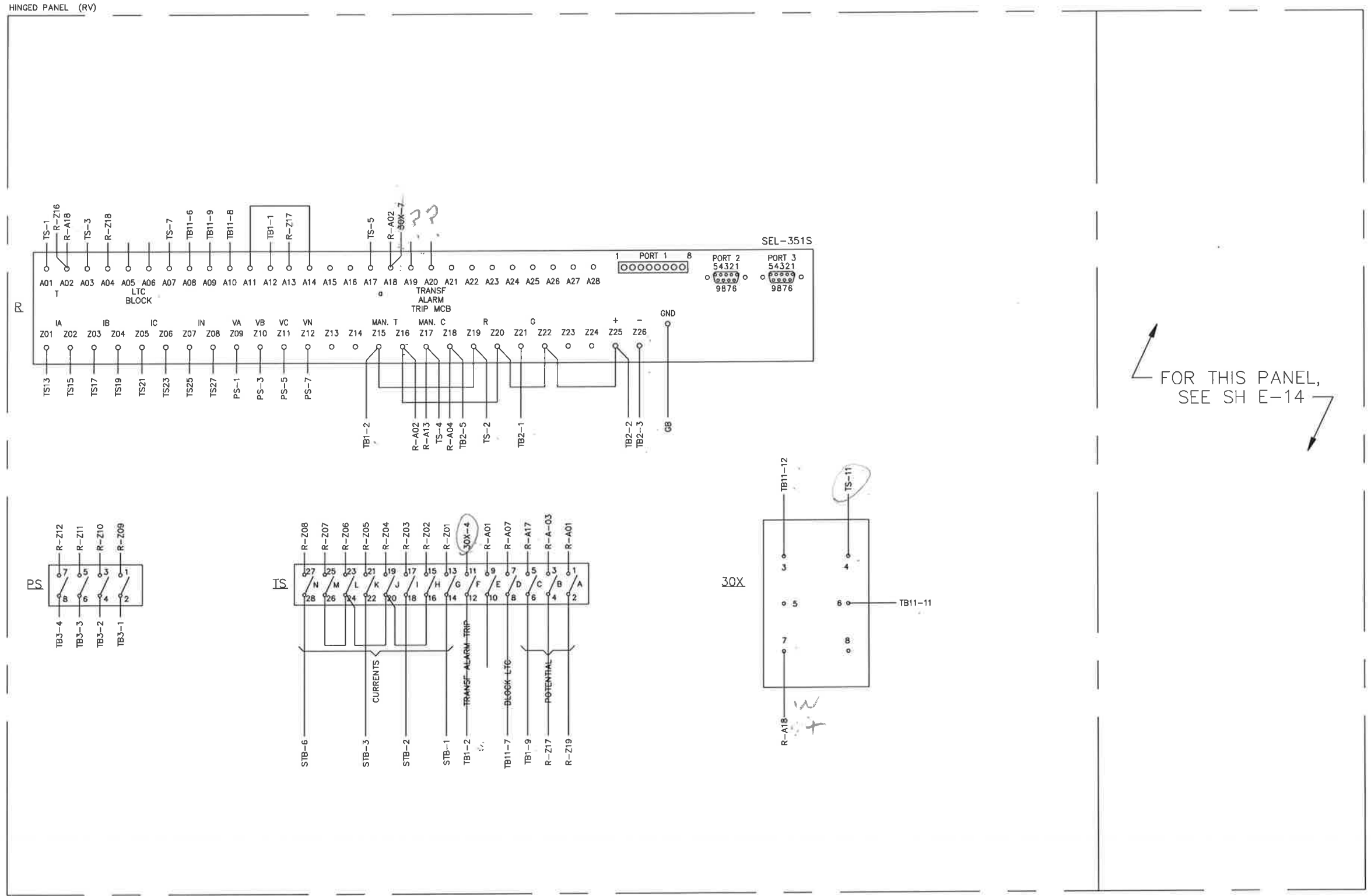
"A" STREET SUBSTATION  
CITY OF PORT ANGELES  
PORT ANGELES, WASHINGTON

"A" STREET SUBSTATION  
WIRING DIAGRAM  
MAIN CIRCUIT BREAKER  
UNIT 2

SHEET	E-14
DWG NO.	Y4336E14
DATE	MAR 2005
PROJ NO.	Y4336

AS BUILT

UNIT 2 - MAIN BREAKER



FOR THIS PANEL,  
SEE SH E-14



DSGN	H STREED				
DR	Y4336E15				
CHK	T WEBSTER				
APVD	M BEANLAND	NO.	DATE	REVISION	BY
	M BEANLAND				APVD

**REUSE OF DOCUMENTS**  
 THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF TRIAXIS ENGINEERING, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF TRIAXIS ENGINEERING, INC.

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

"A" STREET SUBSTATION  
 CITY OF PORT ANGELES  
 PORT ANGELES, WASHINGTON

"A" STREET SUBSTATION  
 WIRING DIAGRAM  
 CONTROL PANEL  
 UNIT 2

SHEET	E-15
DWG NO.	Y4336E15
DATE	MAR 2005
PROJ. NO.	Y4336

AS BUILT

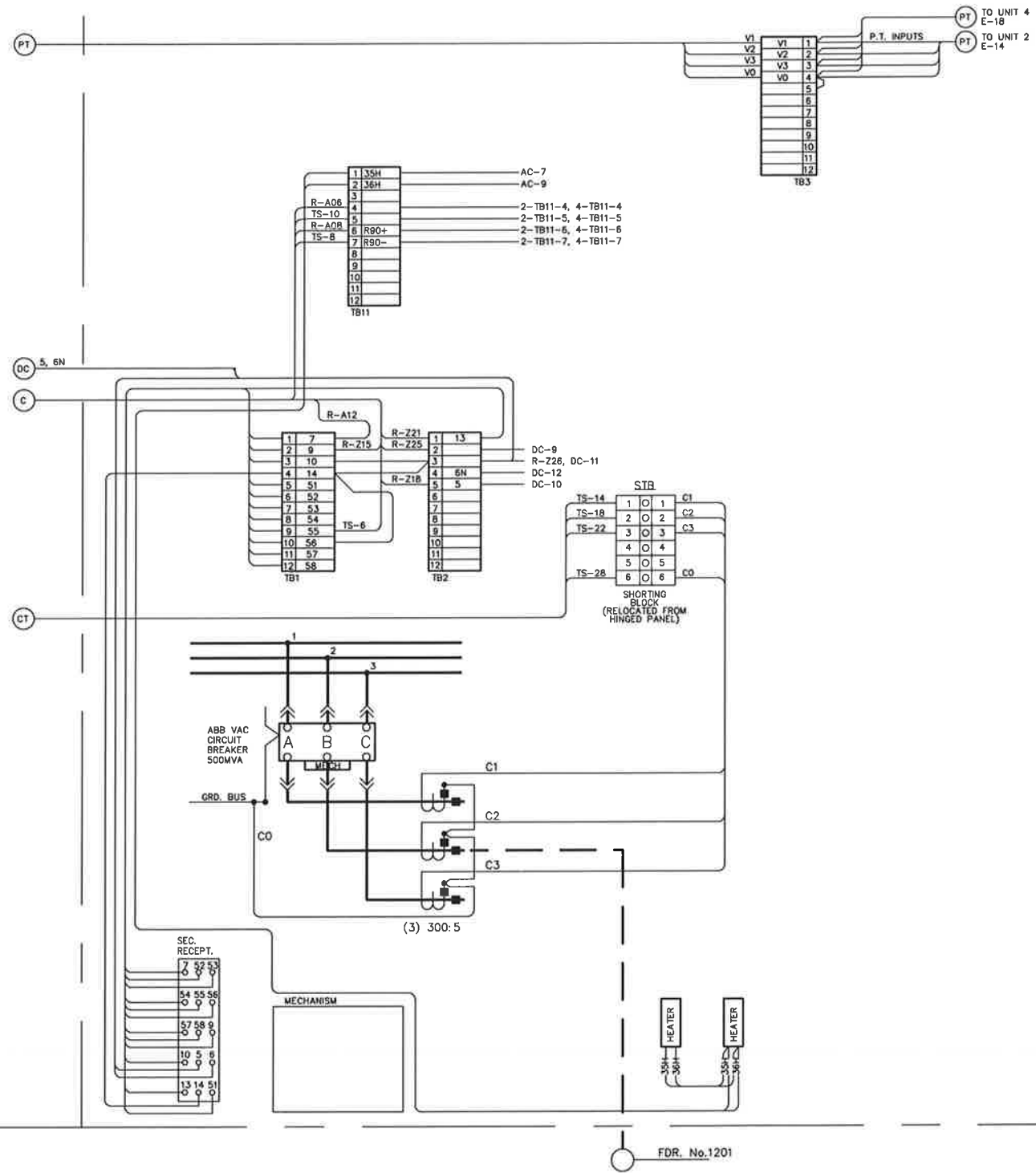
UNIT 3

HINGED PANEL (RV)

CELL (FV)



FOR THIS PANEL, SEE SH E-17



**NOTE:**  
 1. VERIFY CT POLARITY IS CORRECT FOR NEW RELAYS.

\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE EQUIPMENT.  
 H - CELL SWITCH, WHEN SUPPLIED SHOWN FOR BREAKER IN TEST POSITION.  
 S - MOC SWITCH, WHEN SUPPLIED SHOWN FOR BREAKER IN OPEN POSITION.  
 SB - SHORT CIRCUITING TERMINAL BLOCK.  
 P - PULL FUSE  
 D - DUMMY FUSE

**NOTE TO CUSTOMER**  
 1. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
 2. PANEL CONNECTIONS SHOWN AS VIEWED FROM REAR EXCEPT AS NOTED.  
 3. CONNECTIONS ARE FOR PHASE SEQUENCE 1-2-3.  
 4. DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
 5. INSTANTANEOUS TRIPS ARE TIED TO THE TRIP CIRCUIT USING THIS JUMPER. IF INSTANTANEOUS TRIPS ARE TO BE CUT-OUT DURING RECLOSER OPERATION, THIS JUMPER MUST BE REMOVED.



DSGN	H STREED				
DR	Y4336E16				
CHK	T WEBSTER				
APVD	M BEANLAND	NO.	DATE	REVISION	BY
					APVD

**REUSE OF DOCUMENTS**  
 THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF TRIAXIS ENGINEERING, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF TRIAXIS ENGINEERING, INC.

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

"A" STREET SUBSTATION  
 CITY OF PORT ANGELES  
 PORT ANGELES, WASHINGTON

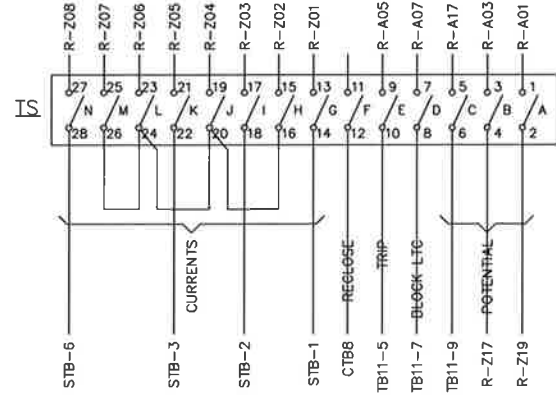
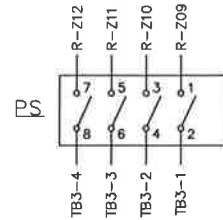
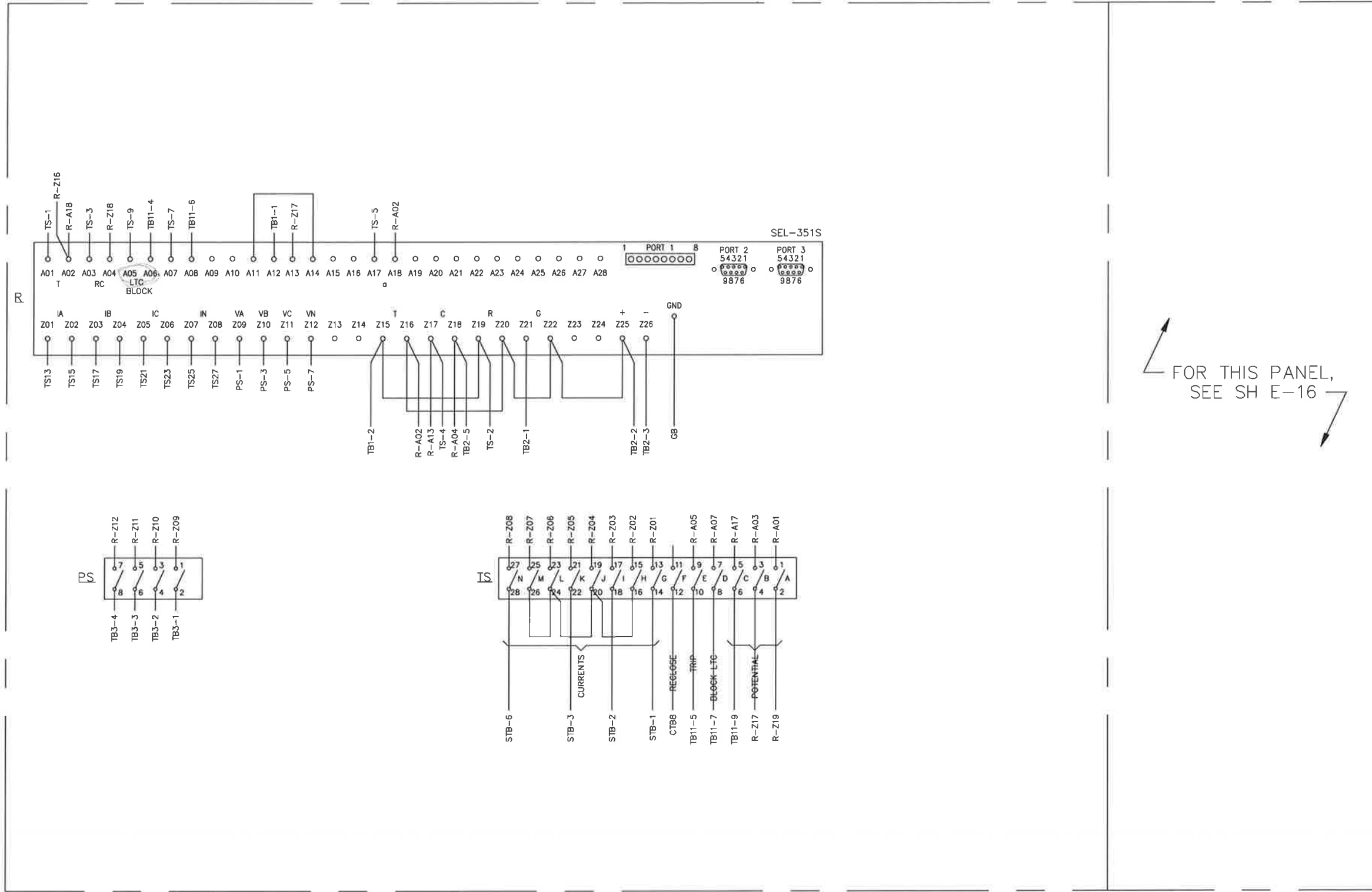
"A" STREET SUBSTATION  
 WIRING DIAGRAM  
 FEEDER 1201  
 UNIT 3

SHEET	E-16
DWG NO.	Y4336E16
DATE	MAR 2005
PROJ NO.	Y4336

AS BUILT

UNIT 3

HINGED PANEL (RV)



**TriAxis**  
Engineering, Inc.

DSGN	H STREED				
DR	T WEBSTER				
CHK	M BEANLAND				
APVD	M BEANLAND	NO.	DATE	REVISION	BY

REUSE OF DOCUMENTS

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF TRIAXIS ENGINEERING, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF TRIAXIS ENGINEERING, INC.

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

"A" STREET SUBSTATION  
CITY OF PORT ANGELES  
PORT ANGELES, WASHINGTON

"A" STREET SUBSTATION  
WIRING DIAGRAM  
CONTROL PANEL  
UNIT 3

SHEET	E-17
DWG NO.	Y4336E17
DATE	MAR 2005
PROJ NO.	Y4336

AS BUILT

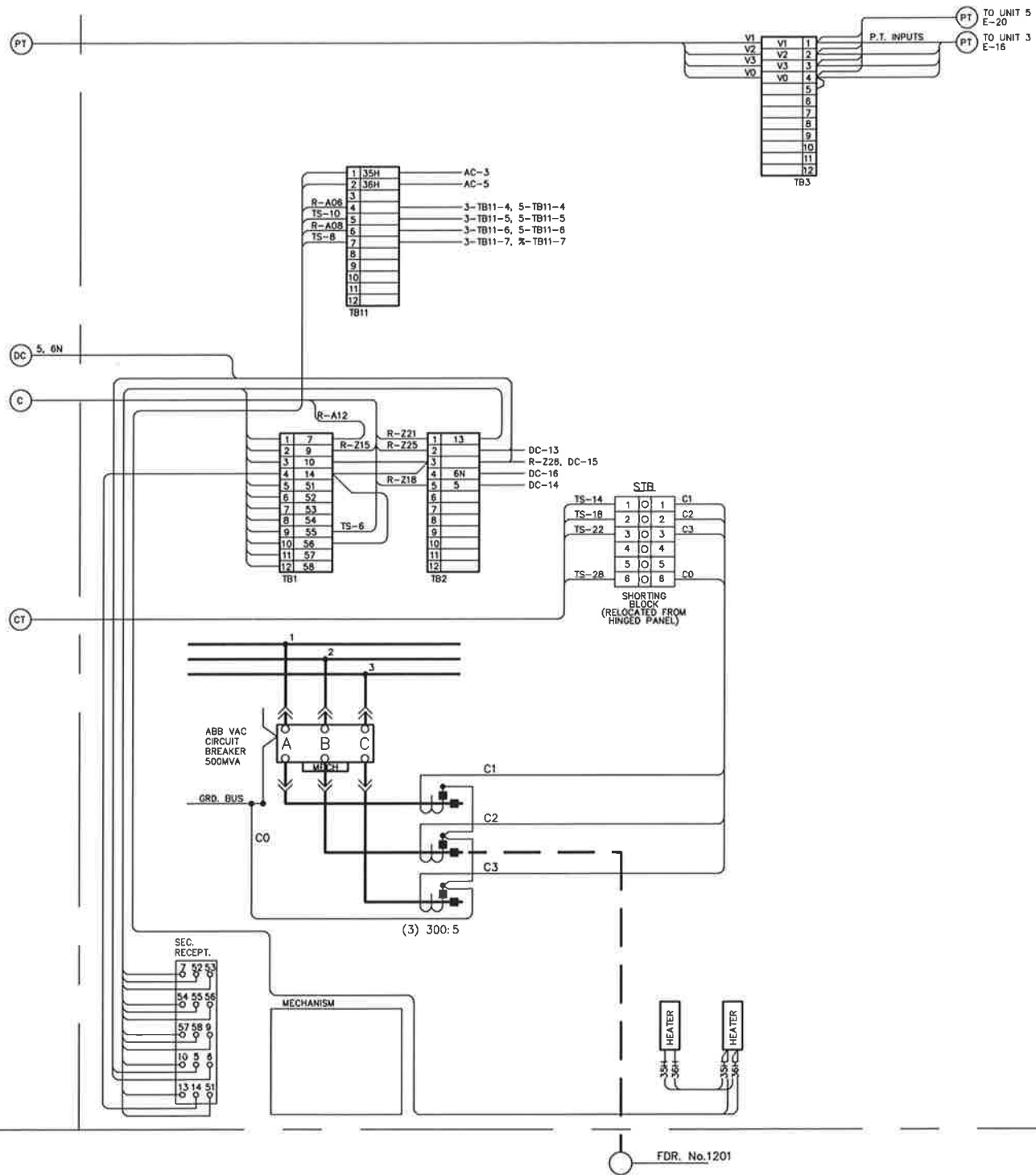
UNIT 4

HINGED PANEL (RV)

CELL (FV)



FOR THIS PANEL, SEE SH E-19



**NOTE:**  
 1. VERIFY CT POLARITY IS CORRECT FOR NEW RELAYS.

\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE EQUIPMENT.  
 H - CELL SWITCH, WHEN SUPPLIED SHOWN FOR BREAKER IN TEST POSITION.  
 S - MDC SWITCH, WHEN SUPPLIED SHOWN FOR BREAKER IN OPEN POSITION.  
 - SHORT CIRCUITING TERMINAL BLOCK.  
 - PULL FUSE  
 - DUMMY FUSE

**NOTE TO CUSTOMER**  
 1. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.  
 2. PANEL CONNECTIONS SHOWN AS VIEWED FROM REAR EXCEPT AS NOTED.  
 3. CONNECTIONS ARE FOR PHASE SEQUENCE 1-2-3.  
 4. DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.  
 5. INSTANTANEOUS TRIPS ARE TIED TO THE TRIP CIRCUIT USING THIS JUMPER. IF INSTANTANEOUS TRIPS ARE TO BE CUT-OUT DURING RECLOSER OPERATION, THIS JUMPER MUST BE REMOVED.



DSGN	H STREED				
DR	Y4336E18				
CHK	T WEBSTER				
APVD	M BEANLAND	NO.	DATE	REVISION	BY
	M BEANLAND				APVD

**REUSE OF DOCUMENTS**  
 THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF TRIAXIS ENGINEERING, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF TRIAXIS ENGINEERING, INC.

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 ————— 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

"A" STREET SUBSTATION  
 CITY OF PORT ANGELES  
 PORT ANGELES, WASHINGTON

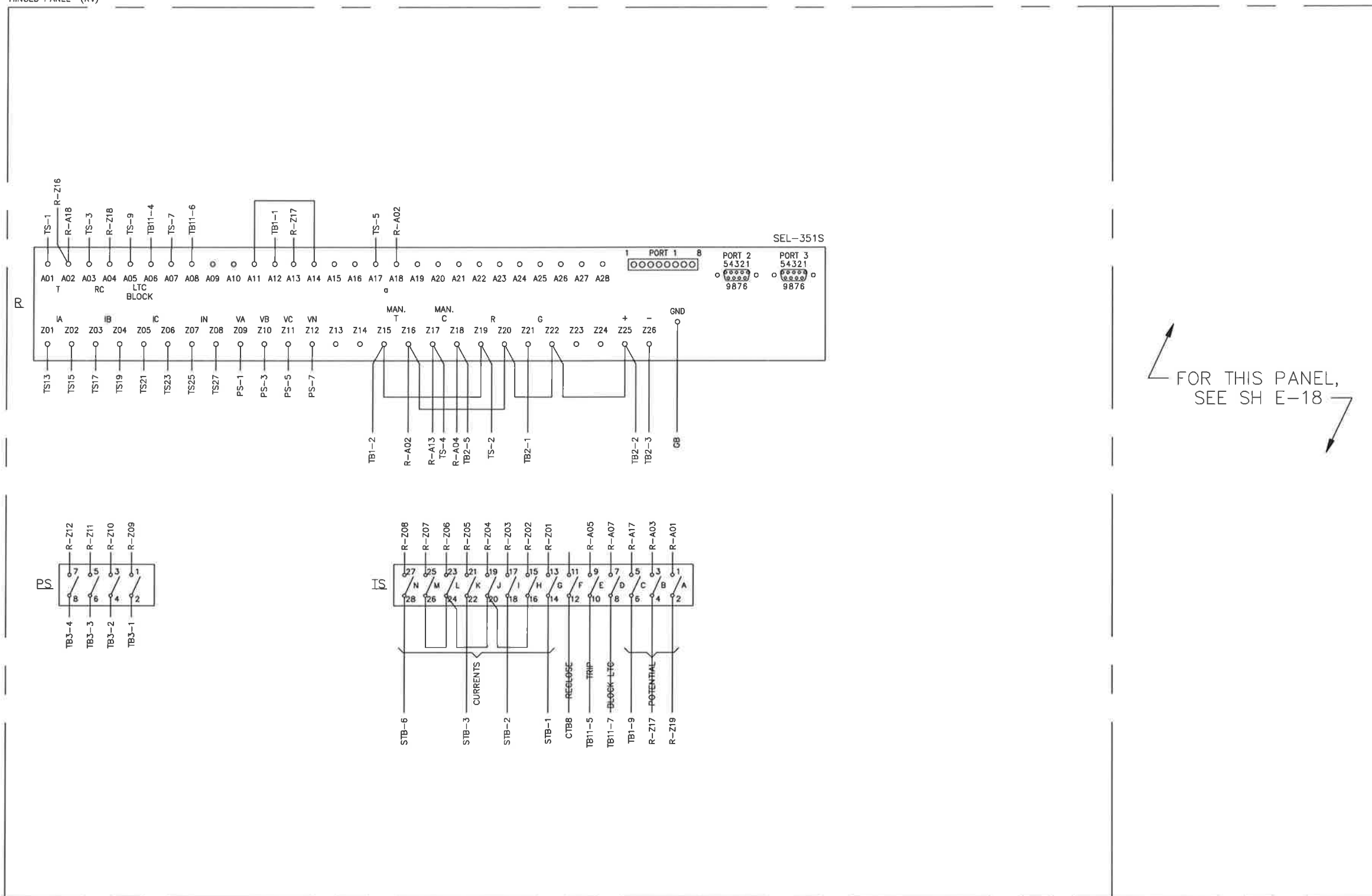
"A" STREET SUBSTATION  
 WIRING DIAGRAM  
 FEEDER 1202  
 UNIT 4

SHEET	E-18
DWG NO.	Y4336E18
DATE	MAR 2005
PROJ NO.	Y4336

AS BUILT

UNIT 4

HINGED PANEL (RV)



DSGN	H STREED				
DR	Y4336E19				
CHK	T WEBSTER				
APVD	M BEANLAND				
		NO.	DATE	REVISION	BY
					APVD

**REUSE OF DOCUMENTS**  
 THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF TRIAXIS ENGINEERING, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF TRIAXIS ENGINEERING, INC.

**VERIFY SCALERS**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

"A" STREET SUBSTATION  
 CITY OF PORT ANGELES  
 PORT ANGELES, WASHINGTON

"A" STREET SUBSTATION  
 WIRING DIAGRAM  
 CONTROL PANEL  
 UNIT 4

SHEET	E-19
DWG NO.	Y4336E19
DATE	MAR 2005
PROJ NO.	Y4336

AS BUILT

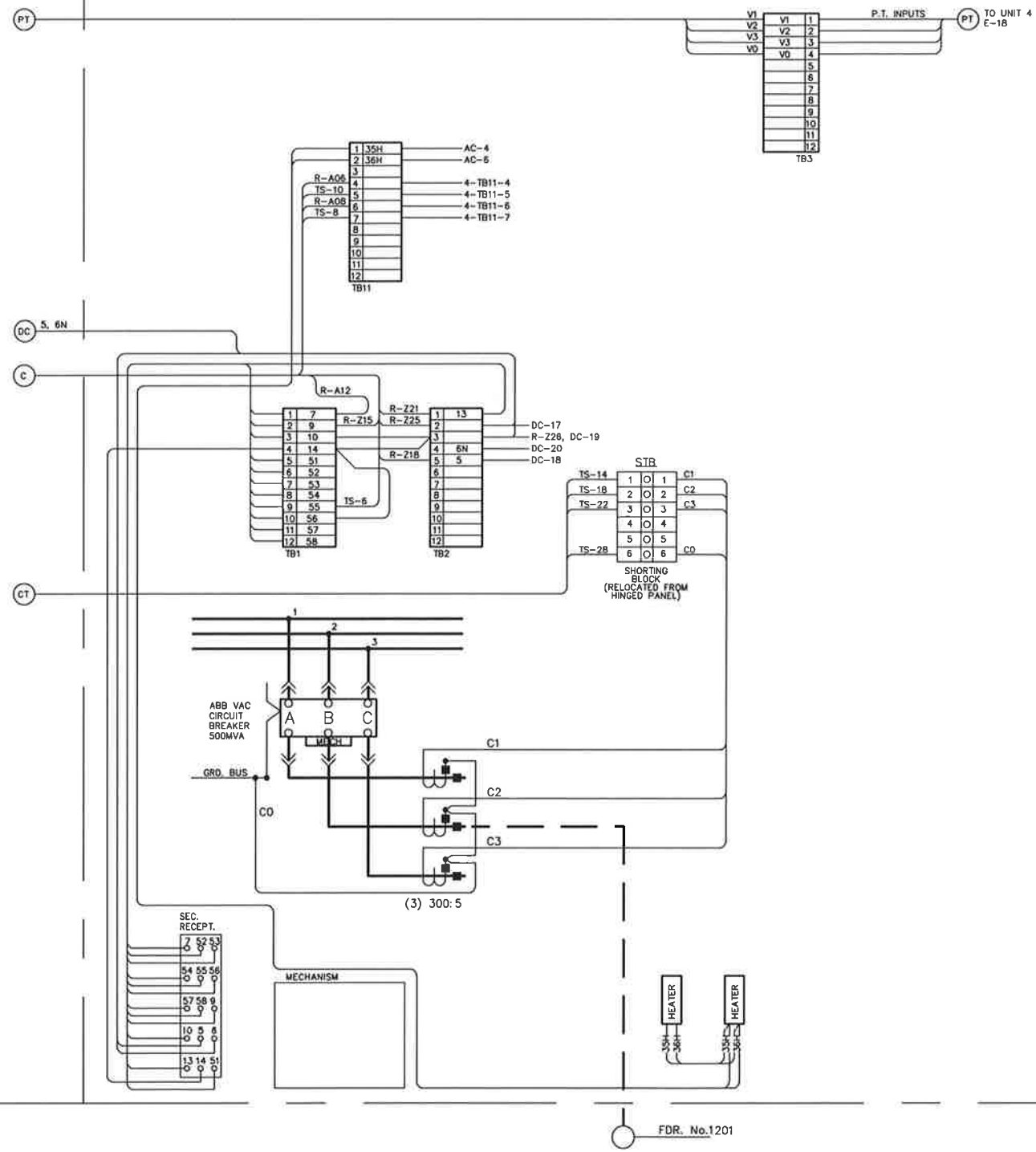
UNIT 5

HINGED PANEL (RV)

CELL (FV)



FOR THIS PANEL, SEE SH E-21



**NOTE:**  
 1. VERIFY CT POLARITY IS CORRECT FOR NEW RELAYS.

\* - CAUTION: CUSTOMER TO REMOVE JUMPERS WHEN CONNECTING TO REMOTE EQUIPMENT.  
 H - CELL SWITCH, WHEN SUPPLIED SHOWN FOR BREAKER IN TEST POSITION.  
 S - MOC SWITCH, WHEN SUPPLIED SHOWN FOR BREAKER IN OPEN POSITION.  
 - SHORT CIRCUITING TERMINAL BLOCK.  
 - PULL FUSE  
 - DUMMY FUSE

**NOTE TO CUSTOMER**

1. LOCATION OF APPARATUS, WIRES OR CABLES MUST NOT BE DETERMINED FROM DIAGRAM.
2. PANEL CONNECTIONS SHOWN AS VIEWED FROM REAR EXCEPT AS NOTED.
3. CONNECTIONS ARE FOR PHASE SEQUENCE 1-2-3.
4. DIAGRAMS, DEVICE FUNCTIONS AND NUMBERS ARE ANSI STANDARD.
5. INSTANTANEOUS TRIPS ARE TIED TO THE TRIP CIRCUIT USING THIS JUMPER. IF INSTANTANEOUS TRIPS ARE TO BE CUT-OUT DURING RECLOSER OPERATION, THIS JUMPER MUST BE REMOVED.



DSGN	H STREED
DR	Y4336E20
CHK	T WEBSTER
APVD	M BEANLAND

NO.	DATE	REVISION	BY	APVD

**REUSE OF DOCUMENTS**

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF TRIAXIS ENGINEERING, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF TRIAXIS ENGINEERING, INC.

**VERIFY SCALES**

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

"A" STREET SUBSTATION  
 CITY OF PORT ANGELES  
 PORT ANGELES, WASHINGTON

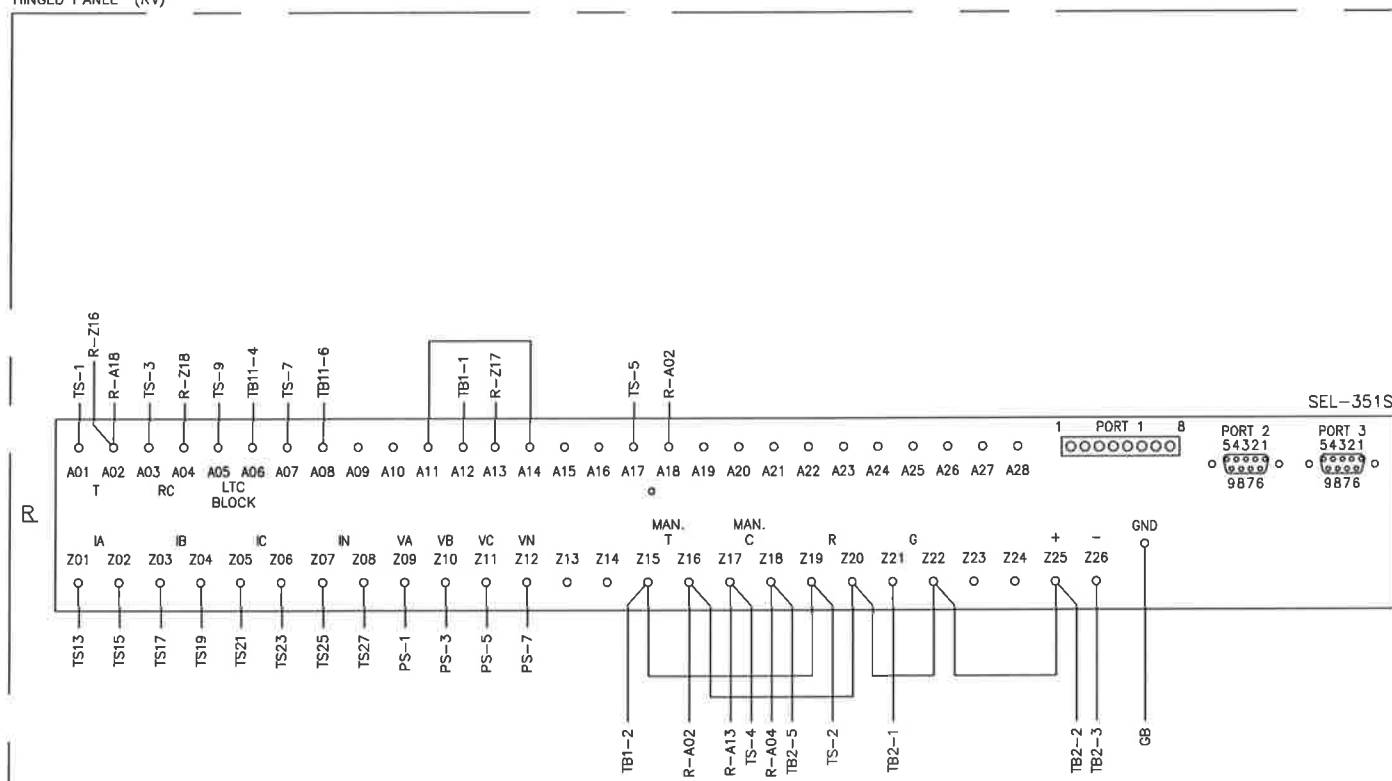
"A" STREET SUBSTATION  
 WIRING DIAGRAM  
 FEEDER 1203  
 UNIT 5

SHEET	E-20
DWG NO.	Y4336E20
DATE	MAR 2005
PROJ NO.	Y4336

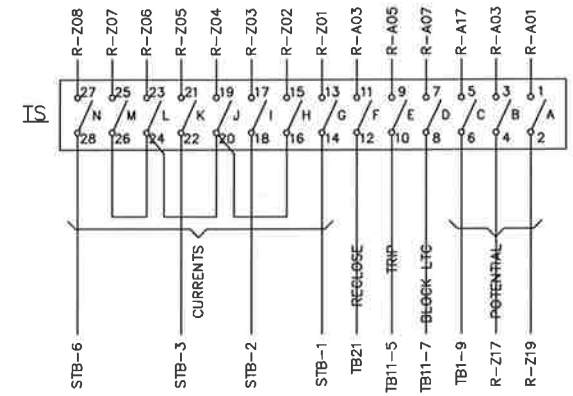
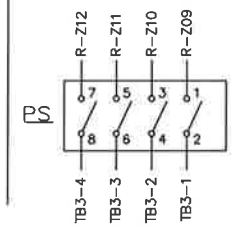
AS BUILT

UNIT 5

HINGED PANEL (RV)



FOR THIS PANEL,  
SEE SH E-20



DSGN	H. STREED				
DR	Y4336E21				
CHK	T. WEBSTER				
	M. BEANLAND				
APVD	M. BEANLAND	NO.	DATE	REVISION	BY

**REUSE OF DOCUMENTS**  
THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF TRIAXIS ENGINEERING, INC. AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF TRIAXIS ENGINEERING, INC.

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

"A" STREET SUBSTATION  
CITY OF PORT ANGELES  
PORT ANGELES, WASHINGTON

"A" STREET SUBSTATION  
WIRING DIAGRAM  
CONTROL PANEL  
UNIT 5

SHEET	E-21
DWG NO.	Y4336E21
DATE	MAR 2005
PROJ NO.	Y4336

AS BUILT