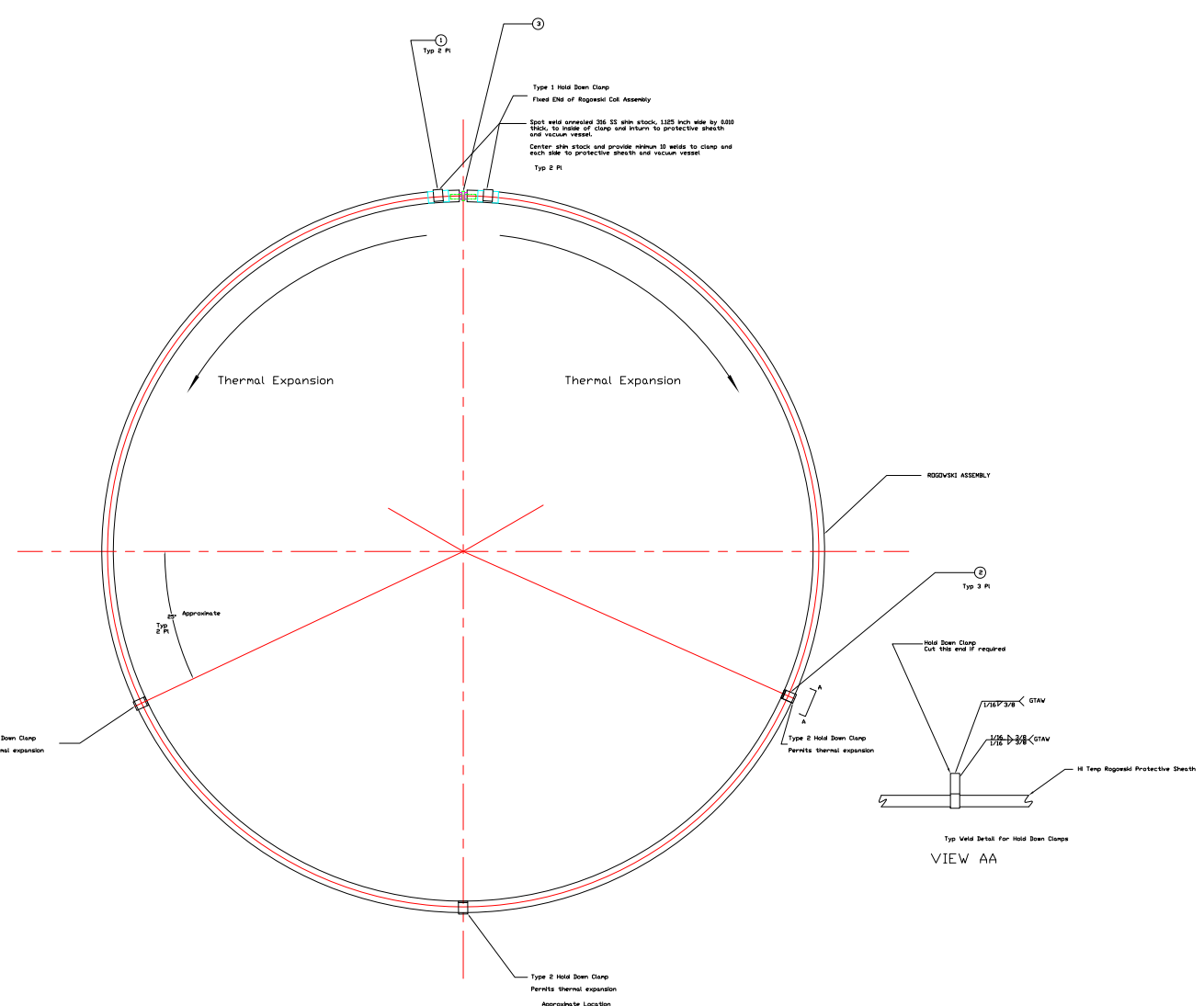


NO.	REVISION	BY	CH	SUP	APPROVED	DATE
13						
14						
15						



- NOTES:
1. Install three Rogowski Coil Assemblies, 120 degree apart, one on each of the 3 VV segments on the outer surface and at the end port. The protection is standing outside the machine flange parallel, looking at the NB port, with the vacuum vessel port 12 oriented vertically, top flange up, install on the left weld flange.
  2. Add 0.010 inch thick 316L thin stock between the Rogowski protective sheath and crossed external flux loop and spot weld to the vacuum vessel. This will act to protect the coil ends.
  3. Mandrel end fixture, one Rogowski Coil on VV1 to use Inconel with Lactoflux #3 coating (0.001 inch  $\gamma$ ) by General Magnetics, and two Rogowski coils on VV2 and VV3 to use Zirconia.
  4. Position mandrel ends against the electric end fitting.
  5. Per project requirements, Rogowski Coil Components, magnetic permeability  $\leq 100$ .

Weld Notes:  
 Welding shall be performed in accordance with the requirements of PPPL Procedure ENG 037.  
 Visual inspection shall be performed in accordance with the acceptance criteria of AWS D1.6

**RELEASED FOR  
 FABRICATION / INSTALLATION**  
 PPPL Drafting:

03	02	01	PART NO.	ROGOWSKI COIL ASSEMBLY	DRAWING NO.	INTERNAL
COMPUTER GENERATED DRAWING			PRINCETON PLASMA PHYSICS LABORATORY			
MANUAL CHANGES NOT PERMITTED			NATIONAL COMPACT STELLATOR EXPERIMENT			
UNCHECKED			HIGH TEMPERATURE ROGOWSKI COIL			
DO NOT WRITE OR SIGN IN THESE SPACES			REV. DATE			
SCALE:			TELEPHONE	NON-COMMERCIAL	DR: FOM	DRD: SANDERSON
NEXT ASSEMBLY:			DESIGN: B-SCH	FUNCTION:	DRW: BLANK	APPROVED:
APPD: L. DUSEK			DATE: 04/28/80	DRW: BLANK	DATE: 04/28/80	DR: T. HENRY
APPD: L. DUSEK			DATE: 04/28/80	DRW: LAUTNER	DATE: 04/28/80	DR: J. B. HARRIS
APPD: L. DUSEK			DATE: 04/28/80	DRW: LAUTNER	DATE: 04/28/80	DR: J. B. HARRIS

11	12	13	14	15
WELDING ENGINEER	DATE	REV. DATE	REV. DATE	REV. DATE
APPD: L. DUSEK	DATE: 04/28/80	REV. DATE: 04/28/80	REV. DATE: 04/28/80	REV. DATE: 04/28/80
SHEET 1 OF 3		REV 0		



