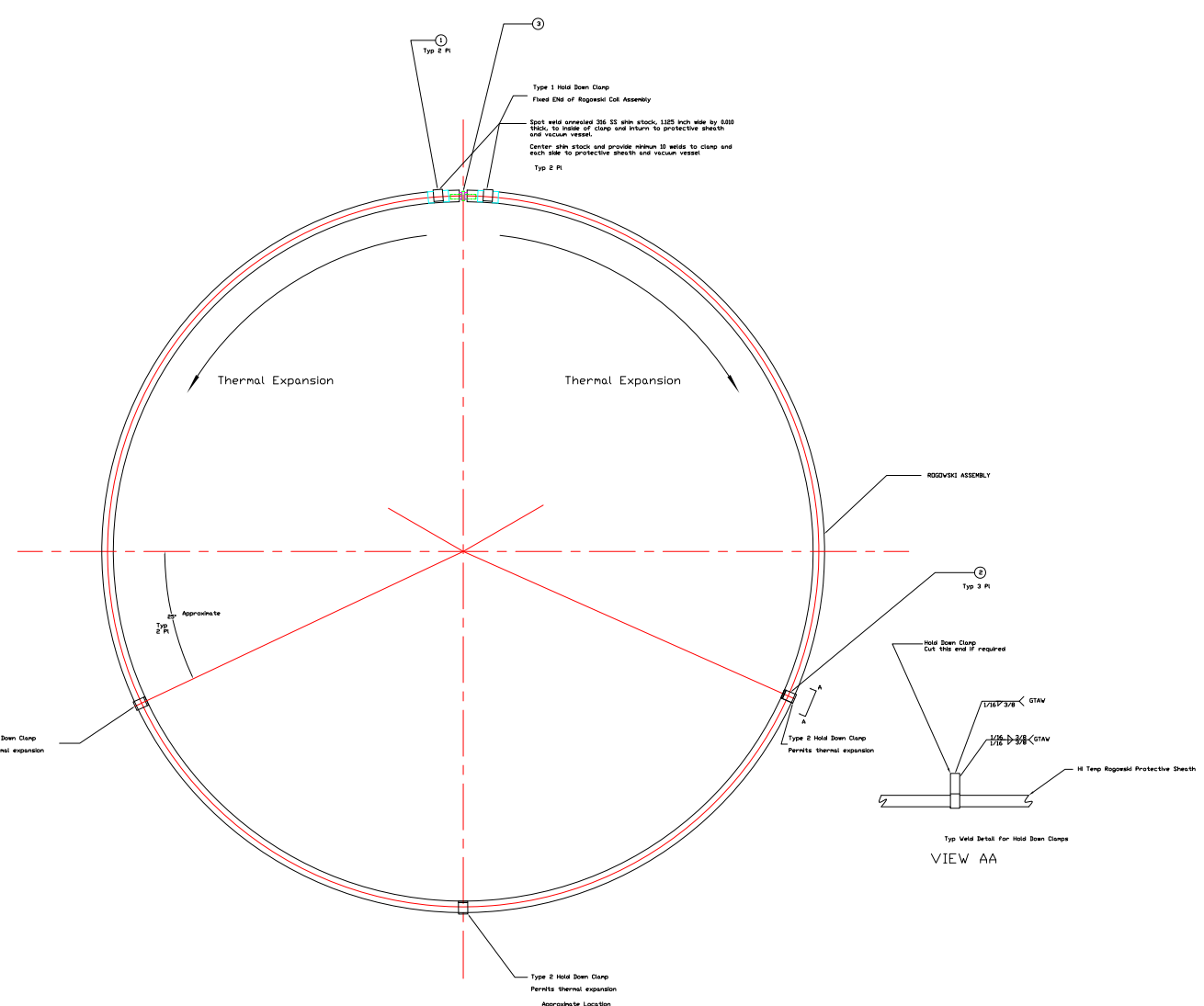


13	14	15
NO.	REVISION	BY CH SUP APPROVED DATE



- 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 RB port, with the vacuum vessel port 12 oriented vertically, top flange up, install on the left weld flange.
 2. Add 0.010 inch thick skin 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. Nondet end fixture, one Rogowski Coil on VV1 to use Inconel with Lactoflux #3 coating (0.001 inch γ) by General Magnetics, and two Rogowski coils on VV2 and VV3 to use Zirconia.
 4. Position nondet ends against the electric end fitting.
 5. Per project requirements, Rogowski Coil Components, magnetic permeability ≤ 100 .

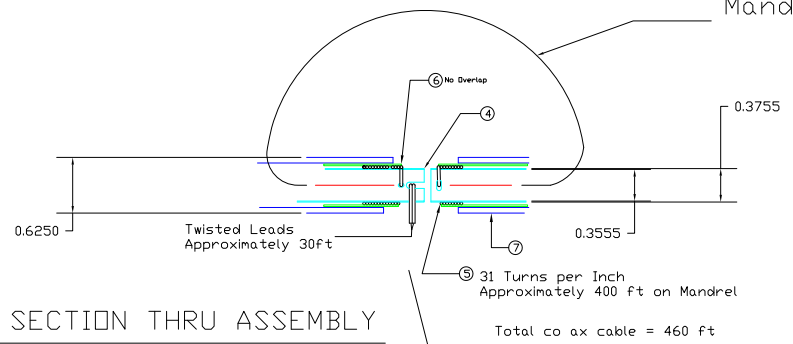
Weld Notes:
 Welding shall be performed in accordance with the requirements of FPPL Procedure ENG 037.
 Visual inspection shall be performed in accordance with the acceptance criteria of AWS D1.6

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 FPPL Drafting

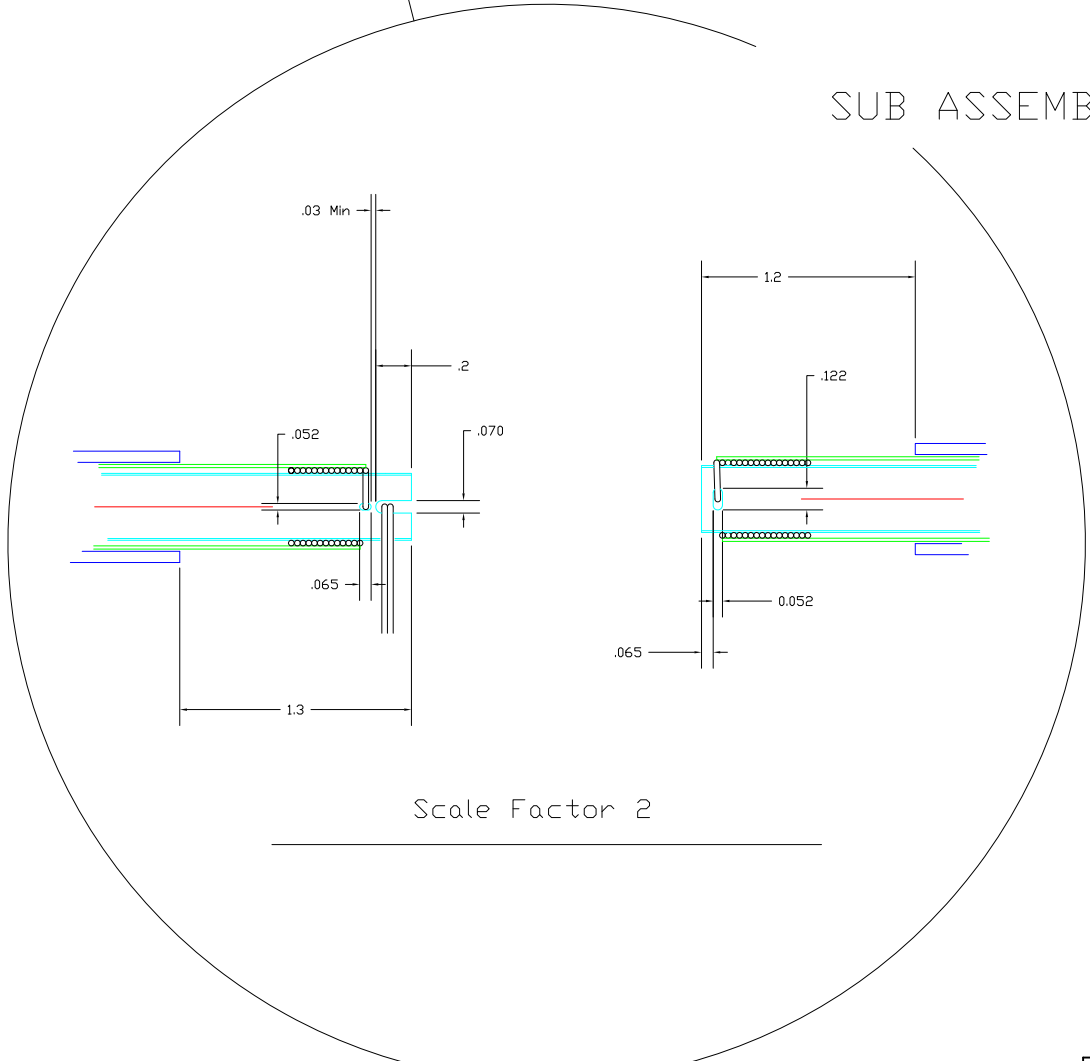
03		02		01		PART NO.		ROGOWSKI COIL ASSEMBLY		THIS DWG SH 1		DRAWING NO.		INTERNAL	
COMPUTER GENERATED DRAWING		MANUAL CHANGES NOT FORMITTED		UNCHECKED		DO NOT REPLY TO COMMENTS IN EXCEL SHEETS		SCALE:		NOMENCLATURE OR DESCRIPTION:		PRINCETON PLASMA PHYSICS LABORATORY PRINCETON UNIVERSITY NATIONAL COMPACT STELLATOR EXPERIMENT HIGH TEMPERATURE ROGOWSKI COIL		DWG FILE:	
APPROVED:		DATE:		APPROVED:		DATE:		SHEET NO.:		SHEET TOTAL:		REV. NO.:		REV. DATE:	
L. DUBO		DATE 5/28/2009		DATE 5/28/2009		DATE 5/28/2009		SHEET 1 OF 2		SHEET 1 OF 2		REV 0		REV 0	

NO.	REVISION	BY	CH	SUP	APPROVED	DATE
13						
14						
15						

Mandrel Length 119.75 inches



CROSS SECTION THRU ASSEMBLY



SUB ASSEMBLY

Scale Factor 2

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

03	02	01	PART NO.	NOMENCLATURE OR DESCRIPTION	DRAWING NO.	INTERNAL
1	7			PROTECTIVE SHEATH, 1/8" OD X 1/8" ID BRASS- 117.25 INCHES	THIS DWG SH 2	SH 2S-ASSEMBLED
1	6			NON ADHESIVE TAPE, 1 BY 0.018-50 FT	THIS DWG SH 2	MODEL
1	5			2# 22 AWG ENCL. CORE COIL - 5000 CONDUCTOR, 500 INDUCTOR - 50 FT	THIS DWG SH 2	SH 2S-ASSEMBLED
1	4			MANDREL - 0.375 OD BY 0.010 WALL BRASS-119.75 INCHES	THIS DWG SH 2	SH 2S-ASSEMBLED
1				SUB ASSEMBLY	THIS DWG SH 2	
03	02	01	PART NO.	NOMENCLATURE OR DESCRIPTION	DRAWING NO.	INTERNAL
COMPUTER GENERATED DRAWING				PRINCETON PLASMA PHYSICS LABORATORY		
MANUAL CHANGES NOT FORMITTED				PRINCETON UNIVERSITY		
UNLESS OTHERWISE SPECIFIED				NATIONAL COMPACT STELLATOR EXPERIMENT		
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED				HIGH TEMPERATURE ROGOWSKI COIL		
DRAWN BY: JIMMY GIBSON				DATE: 10/1/88		
CHECKED BY: JIMMY GIBSON				DATE: 10/1/88		
APPROVED BY: JIMMY GIBSON				DATE: 10/1/88		
SCALE: TELEPHONICS NON-CUMULATIVE				DR: FDM	DRD: JAMESON	CRD: PLE
NEXT ASSEMBLY:				DESIGNER: JIMMY GIBSON	APPROVED: JIMMY GIBSON	NO. 310-050
DRAWN BY: JIMMY GIBSON				DATE: 10/1/88	BY: JIMMY GIBSON	REV 0
CHECKED BY: JIMMY GIBSON				DATE: 10/1/88	BY: JIMMY GIBSON	REV 0
APPROVED BY: JIMMY GIBSON				DATE: 10/1/88	BY: JIMMY GIBSON	REV 0

WELDING ENGINEER
 APPR: _____ DATE: _____
 APPR: _____ DATE: _____

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