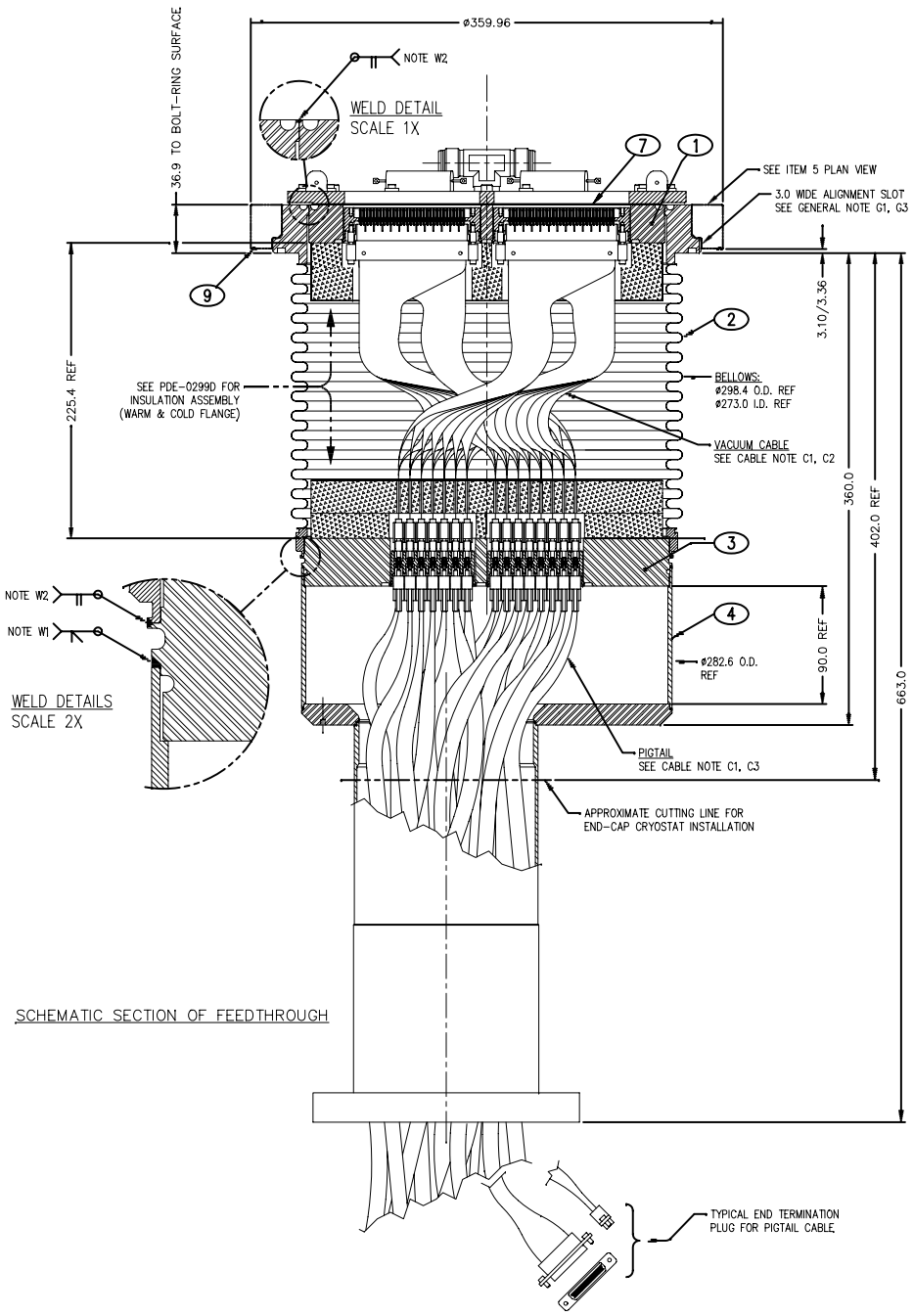
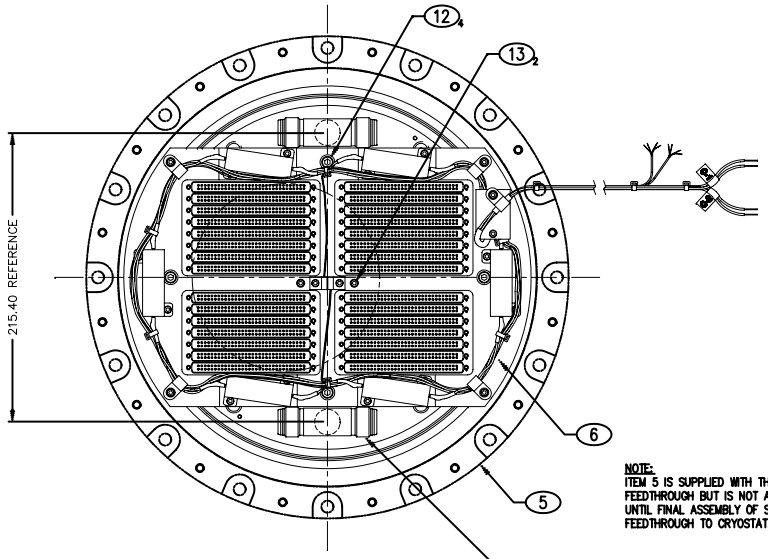


SCHEMATIC SECTION OF FEEDTHROUGH



PLAN VIEW OF FEEDTHROUGH

ITEM	DESCRIPTION	QTY
1	PDE-0211D AMBIENT FLANGE ASSEMBLY	1
2	PDE-0207D BELLOWS ASSEMBLY	1
3	PDE-0210D COLD FLANGE ASSEMBLY	1
4	PDE-0204D FUNNEL ASSEMBLY	1
5	PDE-0205D BOLT RING	1
6	PDE-0305D HEATER PLATE ASSEMBLY	1
7	PDE-0311D FLEXIBLE CONDUCTIVE PAD	1
8		
9	ULTRAFLEX ELECTRONIT BERYLLIUM COPPER KNITTED WIRE SHIELDING. PART # 8101-0101-41 SEE NOTE S1	1
10	PARKER O-RING #2-381 E.P.D.M. COMPOUND #740 NOTE S2	1
11		
12	M5-0.8 X 16 SOCKET HEAD CAP SCREW STAINLESS	4
13	M3-0.5 X 16 SOCKET HEAD CAP SCREW STAINLESS	2

CABLE NOTES

C1. NOTE THAT EACH SIGNAL FEEDTHROUGH HAS UNIQUE WIRING REQUIREMENTS. THIS MEANS THAT THE VACUUM CABLES AND PIGTAIL CABLES MUST BE OF CORRECT LENGTH AND CONFIGURATION FOR A DESIGNATED SIGNAL FEEDTHROUGH POSITION.

C2. REFER TO MASTER WIRING DOCUMENT FOR VACUUM CABLE DESCRIPTION AND FOR SPECIFIC SIGNAL FEEDTHROUGH ASSEMBLY WIRING REQUIREMENTS, TABLES AND SCHEMATICS.

C3. REFER TO MASTER WIRING DOCUMENT FOR PIGTAIL CABLE DESCRIPTION AND FOR SPECIFIC SIGNAL FEEDTHROUGH ASSEMBLY WIRING REQUIREMENTS, TABLES AND SCHEMATICS.

SUPPLIER NOTES

S1. INSTRUMENT SPECIALTIES, P.O. BOX A, SHIELDING WAY
DELAWARE WATER GAP, PA 18327-0136
PHONE NO. (717) 424-8510

S2. PARKER SEAL GROUP, O-RING DIV.
2360 PALUMBO DRIVE, P.O. BOX 11751, LEXINGTON, KY 40512
PHONE NO. (606) 269-2351

WELD NOTES

W1. UNLESS OTHERWISE SPECIFIED, WELDS ARE TO BE OF HIGHEST QUALITY AND SHALL CONFORM TO ALL REQUIREMENTS OF A.S.M.E. PRESSURE VESSEL CODE. THESE WELDS MUST BE SUITABLE FOR VACUUM SERVICE AND CONFORM TO THE REQUIREMENTS OUTLINED IN WELD NOTES W3 & W4.

W2. ALL WELDS THAT REFER TO NOTE W2 ARE NOT REQUIRED TO CONFORM TO PRESSURE VESSEL CODE. HOWEVER THESE WELDS ARE TO BE OF HIGHEST QUALITY AND MUST BE SUITABLE FOR VACUUM SERVICE AND CONFORM TO THE REQUIREMENTS OUTLINED IN WELD NOTES W3 &W4.

W3. ALL WELDED JOINTS ARE TO BE HELIUM LEAK TESTED AND ANY DETECTED LEAK MUST BE EQUAL TO, OR LESS THAN, 1 X 10E-9 CC/SEC HELIUM.

W4. ANY JOINT FAILING THE TEST OUTLINED IN NOTE 3 MUST BE GROUND BACK TO BASE MATERIAL, RE-WELDED, AND RE-TESTED.

GENERAL NOTES

G1. REFER TO DRAWING PDE-0216D FOR ASSEMBLY SEQUENCE OF SIGNAL FEEDTHROUGH.

G2. REFER TO DRAWING PDE-0299D FOR FEEDTHROUGH INSULATION ASSEMBLY INSTRUCTIONS.

G3. NOTE ORIENTATION OF FUNNEL ASSEMBLY ITEM 4 RELATIVE TO MACHINED GROOVE.

TOLERANCES UNLESS OTHERWISE SPECIFIED
X.X ±
X.XX ±
ANGULAR DIMENSIONS ±
SURFACE FINISH RMS OR BETTER

UNIVERSITY OF VICTORIA
VICTORIA B.C. CANADA

DESIGNED U OF VIC
DRAWN M LENCKOWSKI
CHECKED P BIRNEY
APPROVED
T HODGES
CHIEF ENGINEER

REF. DWGS.	REV	REVISION DETAILS
	C	ITEM #7 ADDED OCT. 1999
	B	AS BUILT FEEDTHROUGH SEP. 1999

TRIUMF

SIGNAL FEEDTHROUGH ASSEMBLY
END CAP SIGNAL FEEDTHROUGH
ATLAS END CAP CRYOSTAT

SCALE 1 : 2
DATE AUG 99
SHT OF SHTS 1 1
DWG. NO. PDE-0201D
REV C