



- A – Bulkhead Receptacle Amphenol MS-3102E-28-12S
- B – 90 ° Plug Amphenol MS-3108A-28-12-P
- C – 90 ° Plug Amphenol MS-3108A-28-12-S
- D – Bulkhead Receptacle Amphenol MS-3102E-28-12P
- E – Cable – Halogen-free cable, CERN Stock No. 04.21.52.140.4 MT 4.40 SFr/m 13 x 2 wires 16 x 0,20 0,5 mm<sup>2</sup> 16,5 NE26, 30ft long
- F – National Instruments Analog Input Module (AI-100)
- G – National Instruments Analog Input/Output Module (AIO-610)
- H – National Instruments Digital Input Module (DI-301)
- J – National Instruments RTD Input Module (RTD-122)
- K – National Instruments Digital Output Module (DI-400)
- L – 50 Terminal Strip
- M – Cable – Halogen-free cable, CERN Stock No. 04.21.52.100.2 MT 0.80 1 x 2 16 x 0,20 0,5 7,0 NE2, 4ft long
- N – Cable – Halogen-free cable, CERN Stock No. 04.21.52.100.2 MT 0.80 1 x 2 16 x 0,20 0,5 7,0 NE2
- N1 - 3ft long
- N2 - 8ft long
- P – Cable – Belden single conductor, 18GA, cut to length during installation

<p>THIRD-ANGLE PROJECTION</p>	This drawing was prepared by ORNL solely for use in work performed under Department of Energy contract number DE-AC05-00OR22725 and applicable Work for Others Agreements and Cooperative Research and Development Agreements. This drawing is property of ORNL and must be returned upon request.			<p><b>OAK RIDGE NATIONAL LABORATORY</b> operated for the U.S. Department of Energy under contract DE-AC05-00OR22725 Oak Ridge, TN</p>		
	UNLESS OTHERWISE NOTED 1. ALL DIMENSIONS ARE IN INCHES 2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 3. MACHINED FINISH 125 MICRO-INCHES RMS 4. CONCENTRICITY .010 TIR 5. MACHINED ANGLES ±1/2° 6. BREAK SHARP CORNERS AND REMOVE ALL BURRS 7. WHOLE NUMBERS AND FRACTIONS ±1/16 8. X DECIMALS ±.030 9. XX DECIMALS ±.010 10. XXX DECIMALS ±.005			<p><b>REMOTE SYSTEMS GROUP</b> NUCLEAR SCIENCE &amp; TECHNOLOGY DIVISION</p>		
DES	J LEWIS	6/15/06	<b>MERIT EXPERIMENT CONTROL SCHEMATIC</b>			
DRW	J LEWIS	6/15/06				
CHK						
ENG	V GRAVES	6/15/06				
QA			CAD FILE	PREV ASSY	SCALE	SHEET
			SIZE	DWG NO.	1:1	1 of 1
DRAWING APPROVALS		DATE	C	203-HJT-8000		REV
						1

REV	DESCRIPTION	DATE	BY	APPROVED
1	UPDATED CABLING	7/31/2006	VBG	VBG
0	ORIGINAL ISSUE	6/15/2006	VBG	VBG