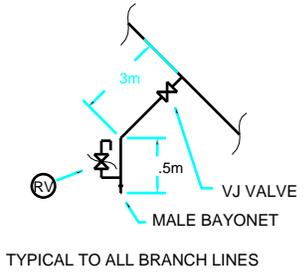


NOTES:
 1- ALL DIMENSIONS ARE FOR REFERENCE ONLY.
 2- FIELD MEASUREMENTS WILL DETERMINE ACTUAL PATH AND DISTANCES.
 3- ALL VALVES ARE EXTENDED STEM.
 4- ALL LINES ARE VACUUM JACKETED UNLESS SPECIFIED.
 5- BRANCH LINES MAY BE CONNECTED TO THE MANIFOLD VERTICALLY AS AN OPTION. MINIMUM CLEARANCE FROM MEZZANINE FLOOR TO BRANCH LINE IS 92".

LEGENDS:
 C = VALVE CONTROL RACK UTILITY LOCATION (RELAY RACK 05ID-AR-RR02)
 TT = TEMPERATURE TRANSMITTER
 RV = RELIEF VALVE
 KF = KEEP FULL
 CD = COOL DOWN
 3V = 3 WAY VALVE
 NC = NORMALLY CLOSE



1	RELOCATED VALVES FROM INSIDE OF BLDG. TO OUTSIDE OF BLDG.	M.J.M			
SYN	CHANGE DESCRIPTION	BY	CHKD	DATE	
REVISIONS					

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
PARTS LIST				
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		LOG NUMBER: Q7210000-01		
TOLERANCES		THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY		
DECIMALS	ANGLES	ADVANCED PHOTON SOURCE		
.X .1 (2.5)	.075	DRAWN BY: corcuera	DATE: 8/28/98	CHEF DESIGN ENGINEER: D. SHU
.XX .01 (0.25)		CHECKED BY: BOB FERRY	DATE: 10/08/98	UP LEADER: G. KUZAY
.XXX .005 (0.13)		DESIGNER: A. CORCUERA	DATE: 10/08/98	PROJECT MGR: [blank]
SURFACE ROUGHNESS 125		RESPONSIBLE ENGINEER: BOB FERRY	DATE: 10/08/98	APPROVE/D/RELEASED: [blank]
REMOVE ALL BUMPS AND BRACK SHARP EDGES .33 MAX		TITLE: LIQUID NITROGEN DISTRIBUTION SYSTEM MODULE -A-		
SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1		SCALE: (1:20)		
DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5		SIZE: C		
DO NOT SCALE DRAWING		DRAWING NUMBER: Q7-210000-01		
		SHEET 14		