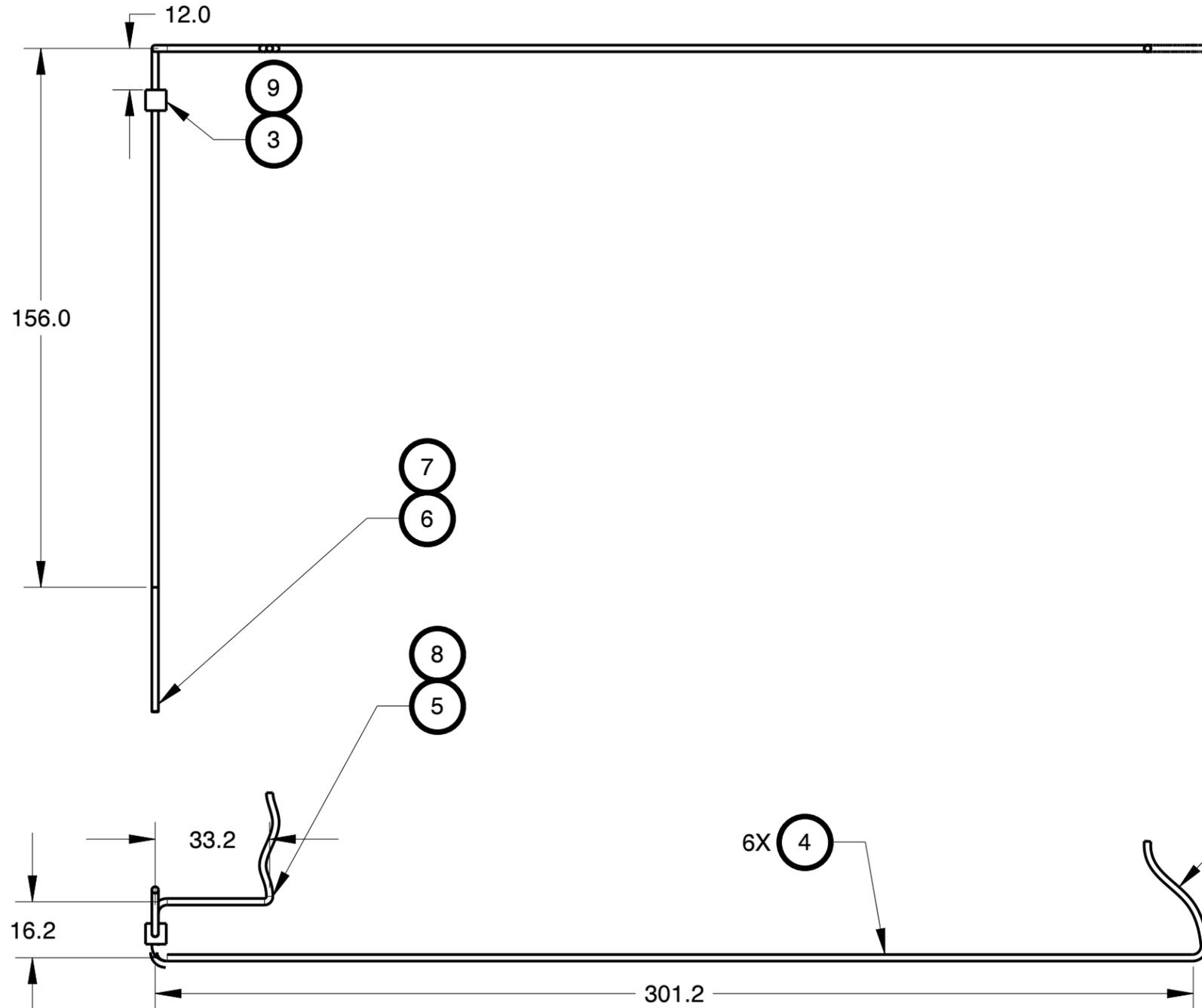


NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISION HISTORY					
PART NO.	ZONE	REV	DESCRIPTION	DATE	APPROVAL



NOTE: ALL DIMENSIONS ARE OFF OF EDGES

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED ONLY BY THE DESIGN ACTIVITY.		
SOFTWARE PRO/ENGINEER		
FILENAME BLUE_LN2_PIPE		
MATERIAL		REF-0401
HEAT TREATMENT	NEXT ASSY	USED ON
FINAL PROTECTIVE FINISH	APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.		
TOLERANCES ON:		
FRACTIONS	DECIMALS	ANGLES
± 1/16	1 PL ± .060 2 PL ± .030 3 PL ± .010	1 PL ± .1°
THIRD ANGLE PROJECTION		

ORIGINAL DATE OF DRAWING (YY/MM/DD)	
DRAFTSMAN K. HOLLAND	CHECKER W. JOHNSON
ENGINEER W. JOHNSON	CHECKER
ENGINEER T. TOMSIK	STRESS
ENGINEER K. HOLLAND	
SUBMITTED	
APPROVED	

JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA			
LH2 GROUND DEMONSTRATION UNIT REFRIGERATION SYSTEM LN2 VJ PIPE			
SIZE B	CAGE CODE 22264	DWG NO GODULH2-0403	REV
SCALE NOTED	UNIT WEIGHT	SHEET 1	OF 2

DWG NO: GODULH2-0403
SHEET 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISION HISTORY					
PART NO.	ZONE	REV	DESCRIPTION	DATE	APPROVAL

NOTES:

1. INTERPRET THIS DRAWING PER ASME Y14.5M-2009.
2. PERFECT ORIENTATION, COXIALITY, OR SYMMETRY AT MMC FOR INTERRELATED FEATURES IS REQUIRED UNLESS SEPERATE TOLERANCES ARE SHOWN AT THE FEATURE.
3. STOCK SIZES ON PARTS LIST ARE APPROXIMATE, SEE DRAWING FOR CORRECT DIMENSIONS. ADD APPROPRIATE MATERIAL AS REQUIRED FOR CUTTING AND MACHINING WHEN PURCHASING MATERIAL.
4. REMOVE SCALE, BURRS, AND BREAK SHARP EDGES.
5. ALL MACHINED SURFACES SHALL BE 125 MICROINCHES OR BETTER, UNLESS OTHERWISE NOTED.
6. ALL FLUIDS SYSTEMS SHALL BE CLEANED TO LEVEL VC PER KSC-C-123.

ASSY DASH NO AND NO REQ	ZONE	FIND NO OR ITEM NO	MFR CODE	PART OR STOCK NO	DESCRIPTION	STOCK SIZE	MATERIAL SPEC	FINISH CODE	UNIT WT
		1	9		RELEIF VALVE (UPSTREAM OF VJ VALVE)				
		1	8		COMPRESSION FITTING	0.5"	SST 304		
		2	7	AN 142-8/KC142-8	37.5 DEG FLARE SWIVEL FITTING, FEMALE	0.5"	SST 304		
		1	6		VJ FLEX HOSE	48" X 0.5" ϕ			
		1	5		VJ FLEXHOSE	30" X 0.5" ϕ			
		6	4		STRAIGHT VJ PIPING	0.5" X 2.0"			
		1	3		VJ VALVE	0.500"			
		1	2		VJ FLEX HOSE	72" X 0.5" ϕ			
		-	1		LN2 VJ PIPE				

PARTS LIST

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED ONLY BY THE DESIGN ACTIVITY.	SOFTWARE	PRO/ENGINEER	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994. TOLERANCES ON: FRACTIONS DECIMALS ANGLES $\pm 1/16$ 1 PL $\pm .060$ 1 PL $\pm .1^\circ$ 2 PL $\pm .030$ 3 PL $\pm .010$	ORIGINAL DATE OF DRAWING (YY/MM/DD)		JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA						
	FILENAME	BLUE_LN2_PIPE		DRAFTSMAN	K. HOLLAND					CHECKER	W. JOHNSON	
	MATERIAL			ENGINEER	W. JOHNSON	CHECKER		LH2 GROUND DEMONSTRATION UNIT REFRIGERATION SYSTEM LN2 VJ PIPE				
	HEAT TREATMENT			ENGINEER	T. TOMSIK	STRESS						
FINAL PROTECTIVE FINISH		APPLICATION	REF-0401	THIRD ANGLE PROJECTION		SUBMITTED APPROVED		K. HOLLAND ENGINEER	SIZE B	CAGE CODE 22264	DWG NO GODULH2-0403	REV 2
NEXT ASSY USED ON		APPLICATION				SCALE NOTED		UNIT WEIGHT	SHEET 2 OF 2			

DWG NO: GODULH2-0403 SHEET 2