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THE INFORMATION CONTAINED IN THIS DOCUMENT IS TECHNICAL IN CONTENT, BUT IS NOT TECHNICAL DATA AS DEFINED BY THE ITAR OR THE EAR, AND THEREFORE IS EAR 99 NLR (NO EXPORT LICENSE REQUIRED). GENERAL PROHIBITION SIX (EMBARGO) APPLIES TO ALL ITEMS SUBJECT TO THE EAR, I.E. ITEMS ON THE CCL AND WITHIN EAR 99 NLR. YOU MAY NOT MAKE AN EXPORT OR RE-EXPORT CONTRARY TO THE PROVISIONS OF PART 748 (EMBARGOS AND OTHER SPECIAL CONTROLS) OF THE EAR AND 22 CFR PART 128.1 OF THE ITAR.]

EDDR #: 1311482

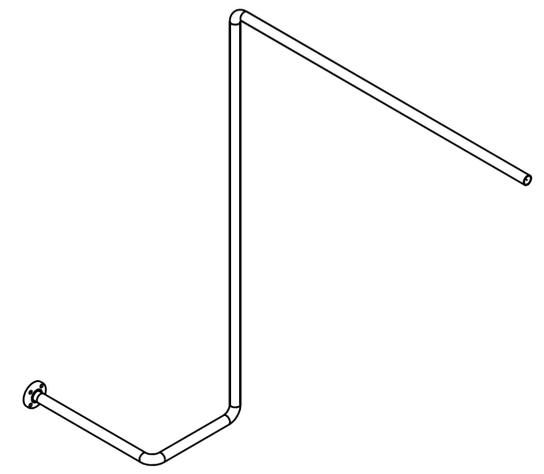
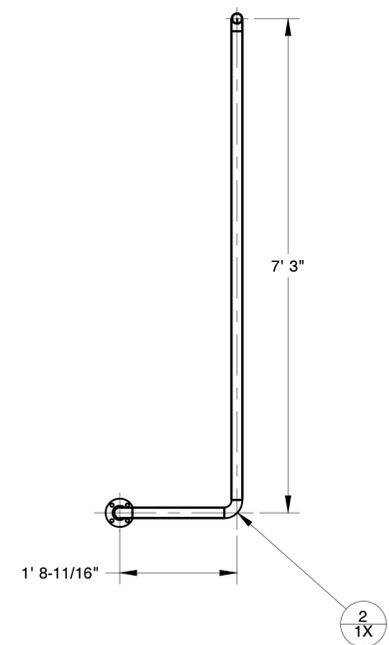
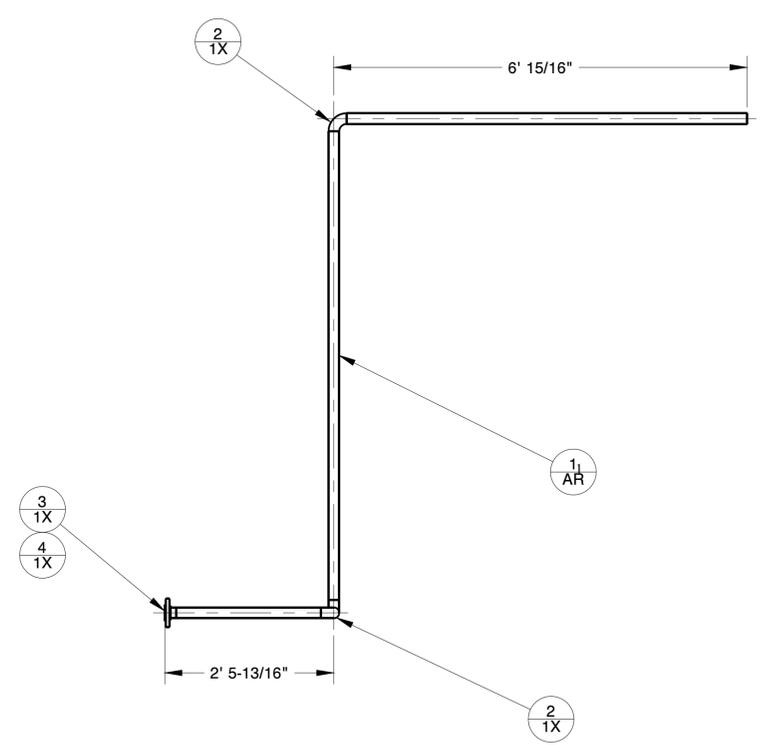
EAR 99 NLR

REVISION HISTORY					
PART NO.	ZONE	REV	DESCRIPTION	DATE	APPROVAL

NOTES:

GENERAL

- 1A. INTERPRET THIS DRAWING PER ASME Y14.5-2009.
- 1B. THIS DRAWING PROVIDES THE PHYSICAL DIMENSIONS AND PARTS LIST FOR PIPE SPOOL ASSEMBLY. REFER TO PROCUREMENT SPECIFICATION K0000147036 FOR TECHNICAL, FABRICATION, TEST AND INSPECTION REQUIREMENTS.
- 1C. PIPE SPOOL REFERENCE DESIGNATOR NUMBER IS 5165.



ISOMETRIC

QTY	FIND NO OR ITEM NO	DESCRIPTION
1	4	FLANGE, LAP JOINT, B16.5, CLASS 150
1	3	STUB END, SHORT, B16.9, SCHED 40
3	2	ELBOW, 90 DEG, LONG, B16.9, SCHED 10
AR	1	PIPE 1-1/2 NPS, SCHED 10, ASTM A312

PARTS LIST

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED ONLY BY THE DESIGN ACTIVITY.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.		ORIGINAL DATE OF DRAWING (YY/MM/DD) 2013/03/19		JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA	
SOFTWARE	PRO/ENGINEER	DRAFTSMAN	D. C. STANIFER	CHECKER	J. A. STAGI	PIPE SPOOL 1-1/2, LIQUID OXYGEN, BLEED	
FILENAME	K0000065264D	ENGINEER	W. C. PATRICK	CHECKER	L. C. KAYLOR		
MATERIAL	NOTED	ENGINEER	J. K. TUCKERMAN	STRESS ENGINEER	V. J. WARD		
HEAT TREATMENT	--	ENGINEER	C. T. OCONNOR		SUBMITTED		
FINAL PROTECTIVE FINISH	--	APPLICATION	NEXT ASSY	USED ON	THIRD ANGLE PROJECTION	T. O. ADAMS APPROVED A. C. LITTLEFIELD	
K0000065264, -20, RELEASED, Verify Latest Revision in KDDMS		EAR 99 NLR		THIRD ANGLE PROJECTION		JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA	
				TOLERANCES ON:		SIZE CAGE CODE DWG NO. REV D 22264 K0000065264 -	
				FRACTIONS DECIMALS ANGLES ±1/16 1 PL ±.060 1 PL ±1° 2 PL ±.030 3 PL ±.010		SCALE .062 UNIT WEIGHT 40.21 SHEET 1 OF 1	

DWG NO. K0000065264 SHEET 1