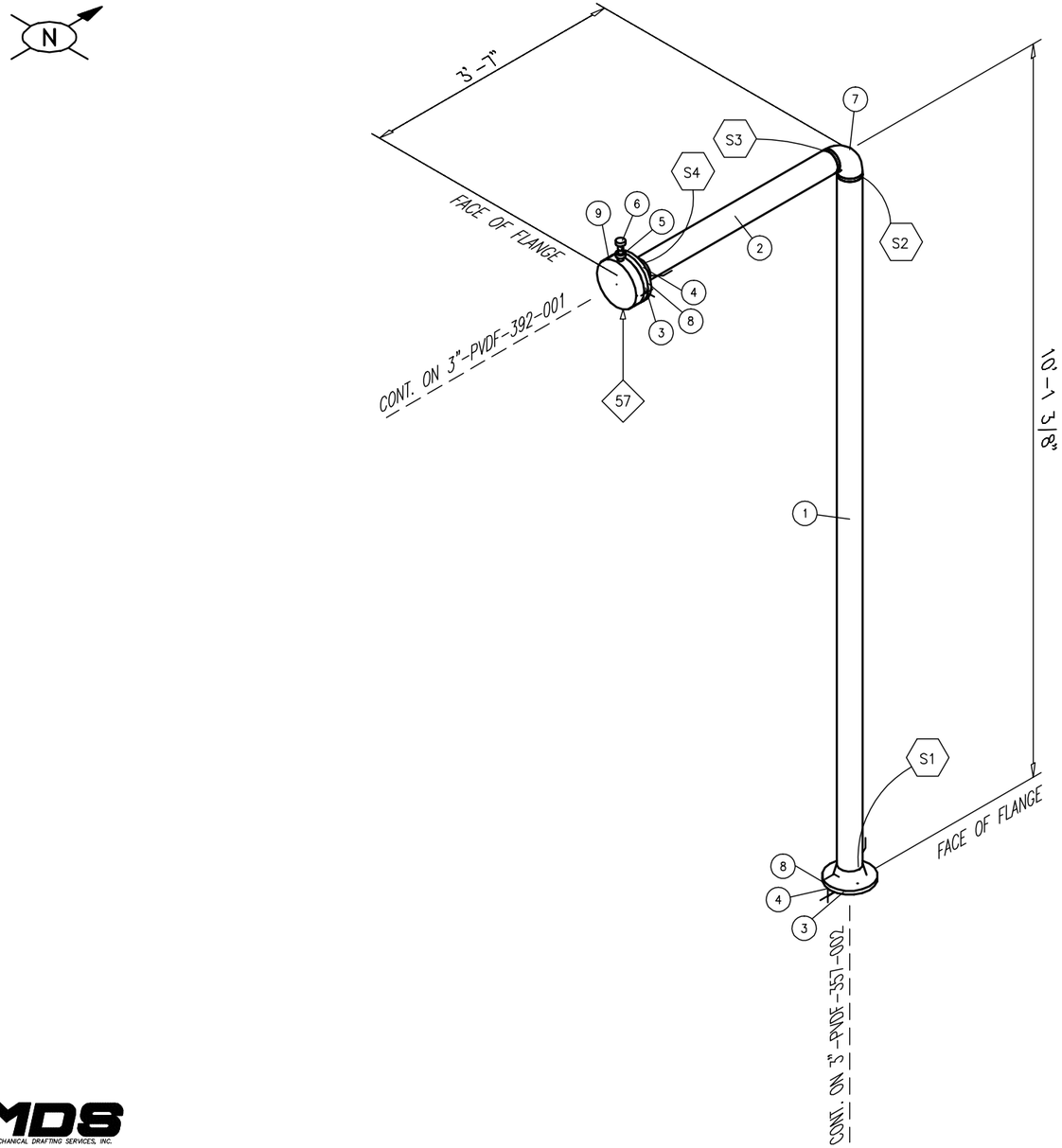
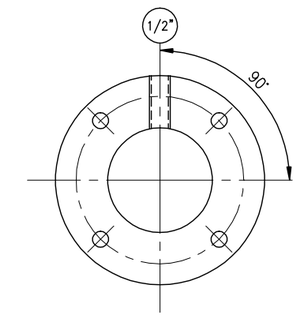
NO	DR	CH	APPD	DATE	REVISION
R#	R-DR	R-CH		R-DATE	ISSUE-DESCRIPTION



BILL OF MATERIAL

MARK	QTY	SIZE	DESCRIPTION	LENGTH	MAN HOURS
1	1	3"	PIPE, PVDF (ASAHI)	9'-6 1/8"	
2	1	3"	PIPE, PVDF (ASAHI)	2'-11 13/16"	
3	2	3"	BACKING FLG, THERMO PLASTIC COATED STEEL		
4	2	3"	GASKET, PTFE TEFLON (KC MULTIRING)	1/16"	
5	1	1/2"	NIPPLE, PVDF TBE (-)	1 1/8"	
6	1	1/2"	NEEDLE VALVE, GLOBE, BF PVDF, (+GF+) V-61		
7	1	3"	ELL, 90 BF PVDF (ASAHI)	4 1/16"	
8	2	3"	STUB END, PVDF BF (ASAHI)	3 5/32"	
9	1	3"	SPACER, FLANGE w/1/2 INCH TAP BF PVDF (IONICS)	1 1/2"	
				TOTAL	



57 INSTRUMENTATION FITIING DETAIL (DONUT)

MK No. 3"-PVDF-357-003

SCALE: NTS

PROCESS PIPING SPOOL

MDS MECHANICAL DRAFTING SERVICES, INC.

1. PIPING SPECIFICATION	SPEC		
2. CODE	B31.3 X1	B31.1 X2	SECT.1 X3
3. INSULATION THK	I-THK	SPEC	I-SPEC
4. TRACING	TYPE T-TYPE	SIZE	T-SIZE
5. PAINT SPECIFICATION	PAINT		
6. LINE COMODITY	COMODITY		
7. DES. TEMP.	DEG.F	DES. PRESS	PRESS PSIG

8. NDE VISUAL	YES X4	VISUAL	%
9. X-RAY	YES X5	X-RAY	%
10. STRESS RELIEVE	YES X6		
11. PREHEAT	TEMP.1	DEG. F. MIN.	
12. INTERPASS	TEMP.2	DEG. F. MAX.	
13. TYPE TEST	TYPE	TEST PRESS	PRESS PSIG
14. OTHER	X9		

WELD PROC.
PROC.-NO.1
PROC.-NO.2
PROC.-NO.3
PROC.-NO.4
PROC.-NO.5
PROC.-NO.6

MDS Mechanical Drafting Services Inc.
Drafting & Design for Todays Construction
100 S. Adkins Way, Suite 105
Meridian, Idaho 83642
Voice: (208) 888-1631
Fax: (208) 888-7465

DR NAME	DATE	JOB NAME	JOB-NAME.
CH NAME	DATE		
REF.DWG.	NUMBER	JOB NO	JOB-NO.
LINE NO.	NUMBER		

DRAWING NO.	DIA. INCH / LIN. INCH	SHT/NO	REV
X"-XXXXX-X-XXX-X"		# OF #'S	REV