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NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

- 1. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE ESM MECHANICAL POC.
- 2. SIZE CONDENSATE BRANCH LINE NO SMALLER THAN THE TRAP INLET. MINIMUM SIZE IS 3/4".
- 3. USE TWO PRV'S IN SERIES WHEN THE TOTAL REDUCTION IN PRESSURE IS MORE THAN A 10 TO 1 RATIO OF THE GAUGE PRESSURE. SEE SHEET 2. SET THE FIRST PRV AT APPROXIMATELY 60 PSIG AND THE SECOND AS REQUIRED.
- 4. USE TWO PRV'S IN PARALLEL WHEN THE LOAD DEMANDS FLUCTUATE THROUGH A WIDE RANGE. SEE SHEET 3.
 - A. WHEN SPLIT BETWEEN LOADS IS UNKNOWN, SELECT VALVES WITH CAPACITIES OF 1/3 AND 2/3 OF THE MAXIMUM LOAD WITH THE SMALLER VALVE SET AT 2 PSIG HIGHER THAN THE LARGER VALVE. (AS THE LOAD INCREASES, THE PRESSURE DROPS AND THE LARGER VALVE OPENS).
- 5. RELIEF VALVE SETTINGS (PER 2005 ASHRAE SYSTEMS & EQUIPMENT HANDBOOK, PAGE 10.10)
 - A. REDUCED PRESSURE UNDER 35 PSI: SET RELIEF VALVE AT LEAST 5 PSI HIGHER THAN REDUCED PRESSURE.
 - B. REDUCED PRESSURE ABOVE 35 PSI: SET RELIEF VALVE AT LEAST 10 PSI HIGHER THAN REDUCED PRESSURE.
- 6. BYPASS AROUND PRV SHALL BE EQUAL TO THE PIPING SIZE INTO PRV.
- 7. MOISTURE SEPARATOR SHALL BE LINE SIZE. INSTALL ONLY IN BUILDING STEAM SUPPLY LINE TO BUILDING.
 - A. MINIMUM BUILDING SUPPLY LINE SIZE 2 1/2"
 - B. TRAP SIZE AND CONDENSATE PIPING SIZE SHALL BE THE SAME SIZE AS THE MOISTURE SEPARATOR DRAIN PORT. MINIMUM SIZE 3/4".
- 8. REFER TO THE FOLLOWING LANL STANDARDS FOR ADDITIONAL INFORMATION:
 - A. MASTER SPECIFICATION 33 6300, STEAM ENERGY DISTRIBUTION (SITE).
- 9. COMPLY WITH ASME B31.1 POWER PIPING. DESIGN STEAM PIPING FOR 150 PSIG AND 500 DEGREES F. DESIGN CONDENSATE PIPING FOR 250 DEGREES F.

DRAWING DEVELOPED FOR ML-3/
ML-4 PROJECTS. FOR ML-1/
ML-2, ADDITIONAL REQUIREMENTS
AND QA REVIEWS ARE REQUIRED.
(REMOVE THIS NOTE WHEN IN-
SERTED INTO A DRAWING PACK-
AGE).

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
3	06-23-2017	UNCLASS	TO	ADMIN. CHANGES TO CAD STD. REV#5 FORMAT	JB	AJ	ML	ML	TO
2	01-04-2006	U	LB	REVISED TITLE BLOCK. ADDED NOTES FOR DESIGNER #9 AND REVISED #6	RP	AY	AY	CD	TO
1	08-13-2003	U	LB	REVISED NOTES. DWG. NO. WAS ST6202	RP	RF	JM	GG	TO

ENGINEERING STANDARDS										
MECHANICAL					DRAWN	R.PEARSON				
STEAM PRV STATION DETAIL DESIGN NOTES					DESIGN	R.FROST				
					CHECKED	C.DUPRE				
TA- XX					DATE	06-28-1999				
SUBMITTED DISCIPLINE POC: GURINDER GREWAL					APPROVED FOR RELEASE STANDARDS MANAGER: TOBIN ORUCH					
SHEET					4					
					PO Box 1663 Los Alamos, New Mexico 87545					
D.C.: U					REVIEWER: LARRY BAYS			DATE: 06-28-1999		
PROJECT ID					DRAWING NO				REV	
CHAPTER 6					ST-D3020-2				3	

00% REVIEW
NOT FOR CONSTRUCTION

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