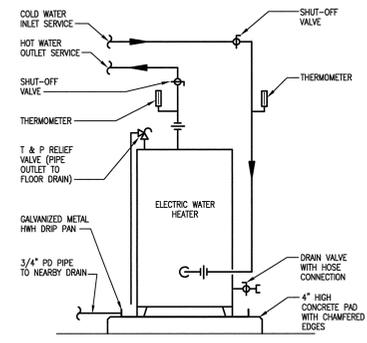
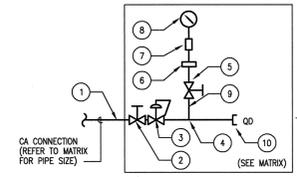


42 UNDER COUNTER ELECTRIC HOT WATER HEATER
NOT TO SCALE



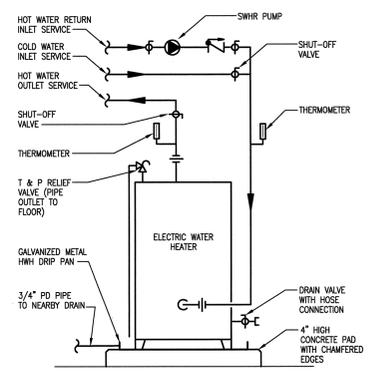
26 ELECTRIC HOT WATER HEATER
NOT TO SCALE



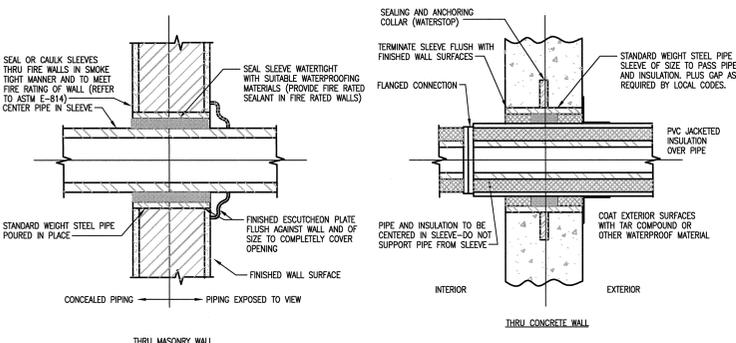
SYSTEM	INLET SIZE	OD SIZE
PALLET AIR	1"	1"
SERVICE AIR	1/2" OR 3/4"	1/2" OR 3/4"

10 COMPRESSED AIR APPLICATION POINT-OF-USE DETAIL - PA, SA
NOT TO SCALE

- 1 CA PIPING, COPPER (SEE MATRIX)
- 2 CA SHUT-OFF VALVE, COPPER
- 3 LINE SIZE PRESSURE REDUCING VALVE (20-100 PSIG RANGE)
- 4 CA REDUCING x 1/4" TEE, COPPER
- 5 1/4" VALVE, COPPER
- 6 1/4" SNUBBER, COPPER
- 7 1/4" COUPLING, COPPER
- 8 GAUGE, 0-120 PSIG, 1/2" DIA.
- 9 1/4" TUBING, COPPER
- 10 CA QUICK DISCONNECT (SEE MATRIX) CM & GROVE, HANSEN 3200 SERIES



15 ELECTRIC HOT WATER HEATER (WITH RECIRC PUMP)
NOT TO SCALE

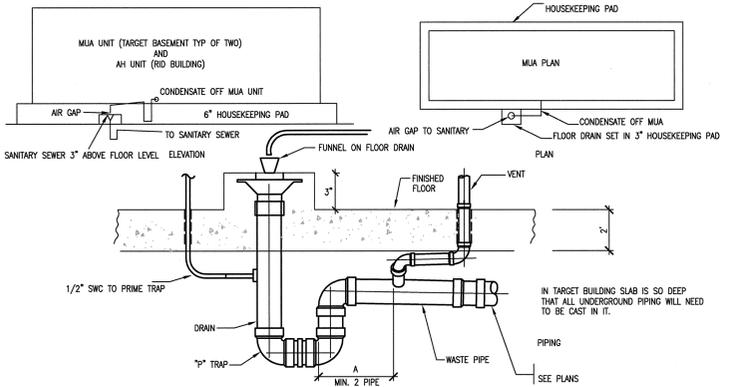


14 PIPE SLEEVE DETAIL
NOT TO SCALE

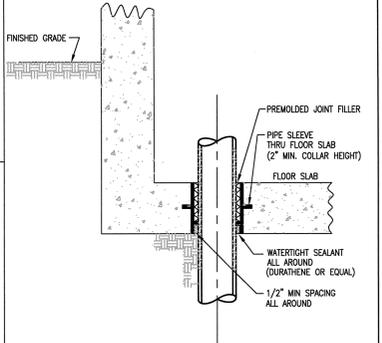
DETAILS 14 AND 21 ARE THE ONLY DETAILS REQUIRED FOR THE TARGET BUILDING SUBSTRUCTURES PACKAGE

19 NOT USED

11 NOT USED



21 CONDENSATE OFF MUA UNITS IN TARGET BASEMENT (SUBSTRUCTURES)
NOT TO SCALE



6 PIPE SLAB PENETRATION AT RING INJECTION DUMP BUILDING
NOT TO SCALE

NOTES:
ALL SLEEVE PENETRATIONS THROUGH CONCRETE WALLS IN THE BASEMENT, BASEMENT SLAB AND INSTRUMENT FLOOR SLAB ARE A PART OF THE SUBSTRUCTURES PACKAGE AND ARE HERE FOR REFERENCE. PIPING THROUGH THE SLEEVE AND ALL REQUIRED SEALING OF THE PENETRATION SHALL BE A PART OF THE GENERAL CONTRACT.

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDERS ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY

CHANGE CONTROL SYSTEM 4

ENGINEERING PROCEDURE SNS-ENG-0001

REV	DATE	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR		
2		TARGET - CERTIFIED FOR CONSTRUCTION - 10/26/01	MMK	BJW																									
1		CERTIFIED FOR CONSTRUCTION - 8/3/01	MMK	BJW																									
0		TARGET - SUBSTRUCTURES CERTIFIED FOR CONSTRUCTION - 4/16/01	MMK	BJW																									

RPE

DRW B. JOHNSON 4/16/01

CHK B. JOHNSON 4/16/01

DEPT

PE C. GARREN 4/18/01

PJ R. DEAN 4/18/01

REQ

REV. DATE 10/26/01

UTB JR LAWSON 4/16/01

108030000-P8E-8000-A002

Knights Jacobs

Knights Jacobs Joint Venture
701 Scarborough Road, MS 8253
Oak Ridge, TN 37830
865-241-9433
Fax 865-241-3400

KNIGHT
Knight Advanced Technology
148 Walnut Street
San Francisco, CA 94102

Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under
U.S. GOVERNMENT contract DE-AC05-00OR22725
OF-BATTELLE, LLC, a Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE

STANDARD PLUMBING DETAILS
SHEET 2 OF 6

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	P	X	X	8	8000		1	1	S	U
51		52		53	WBS					REV
NC		NA			1.8.3					P6.10.02
										2