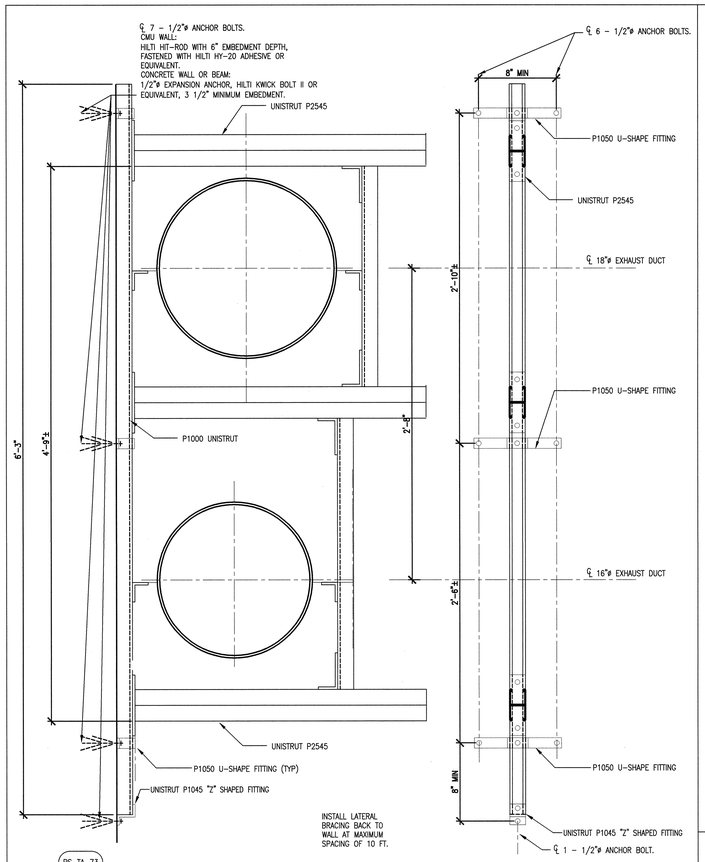
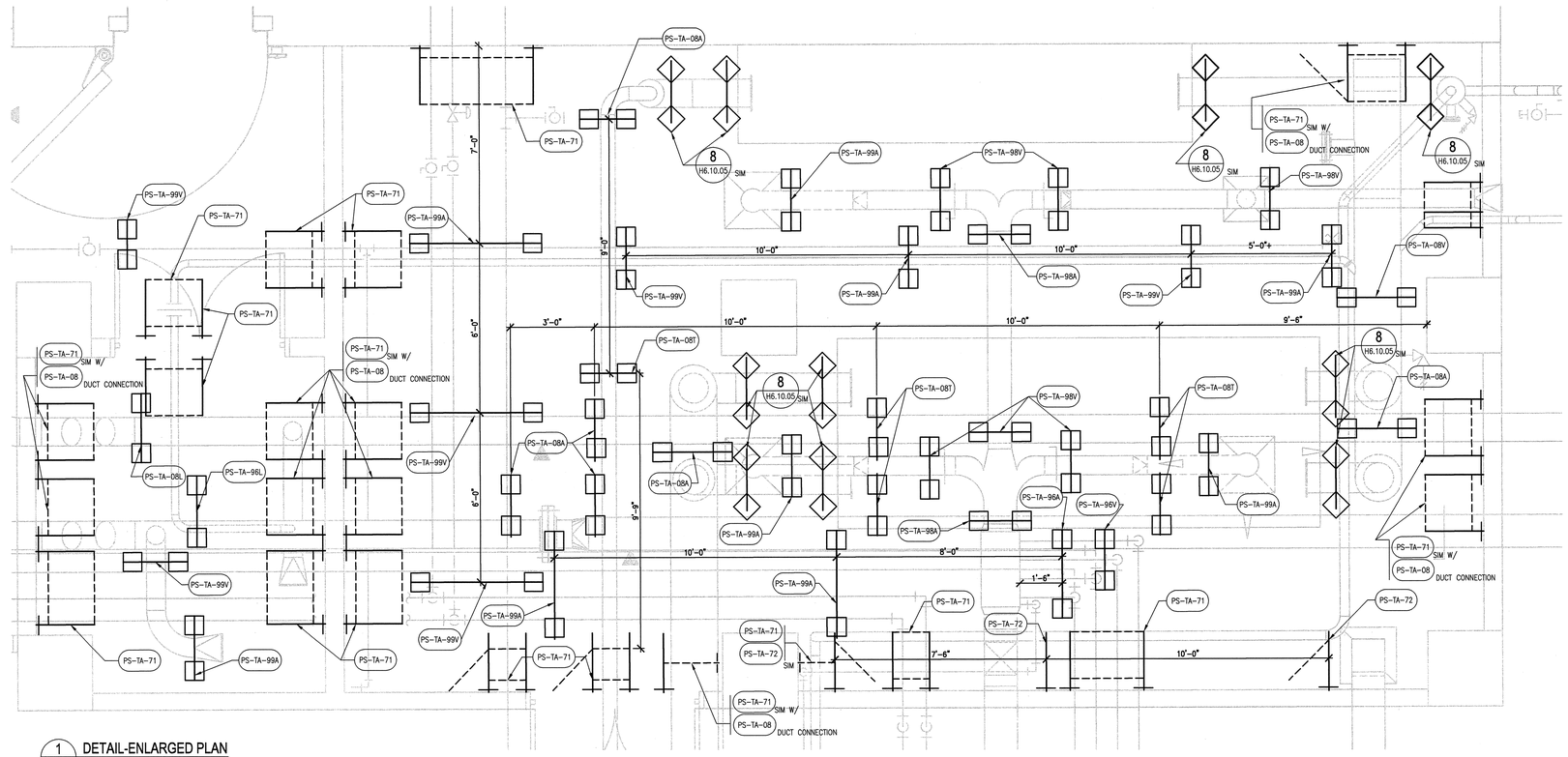
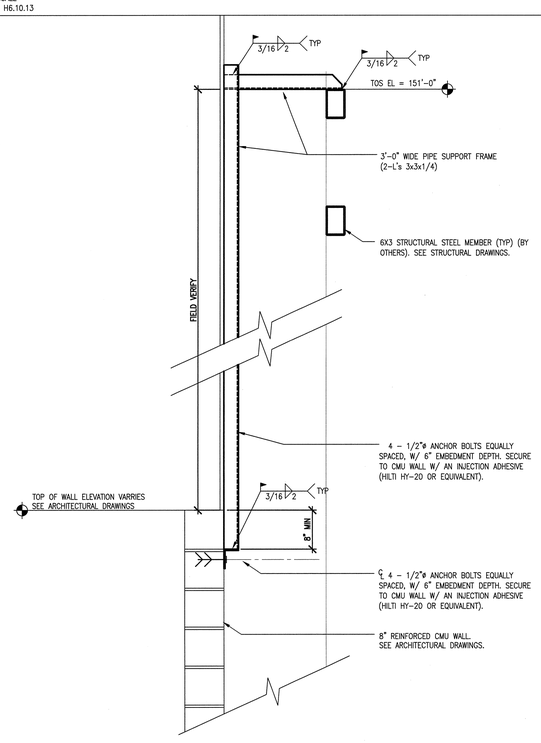


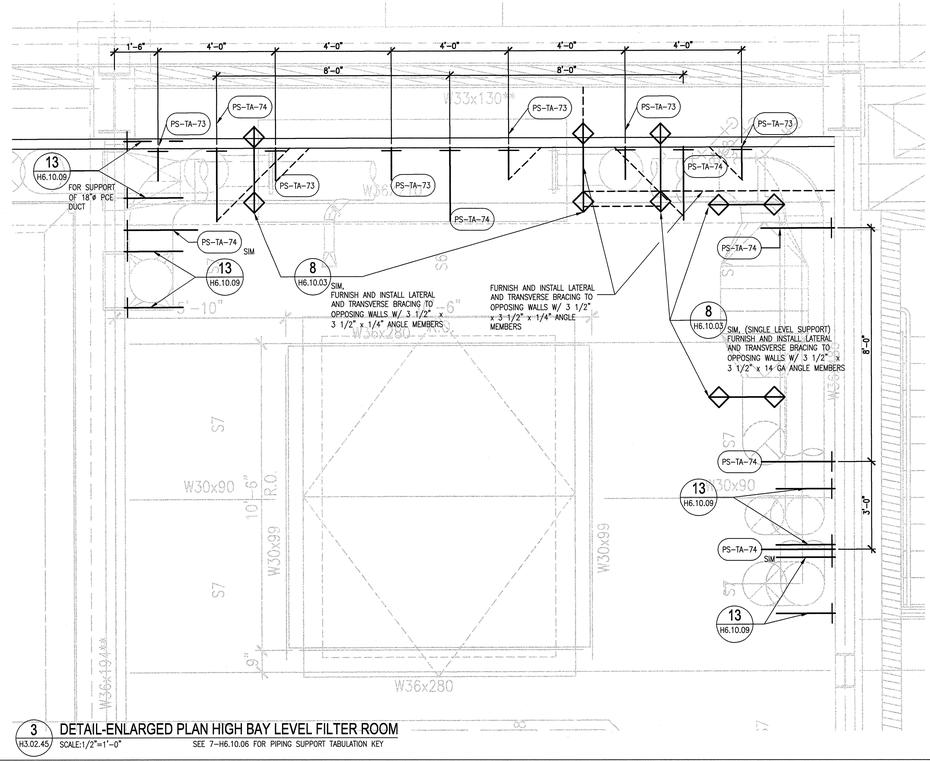
5 UNISTRUT DUCT PIPE SUPPORT
** SCALE: NO SCALE
** 7–H6.10.06, H6.10.13



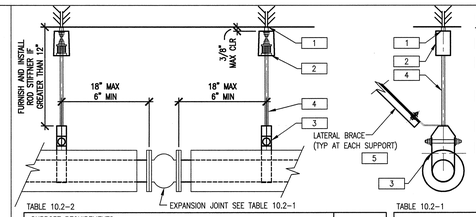
1 DETAIL-ENLARGED PLAN
H3.B1.46 SCALE:1/2"=1'-0" SEE 7–H6.10.06 FOR PIPING SUPPORT TABULATION KEY



6 DETAIL - VERTICAL PIPE RACK SUPPORT (SECTION VIEW)
H5.10.45 SCALE: NO SCALE



3 DETAIL-ENLARGED PLAN HIGH BAY LEVEL FILTER ROOM
H3.02.45 SCALE:1/2"=1'-0" SEE 7–H6.10.06 FOR PIPING SUPPORT TABULATION KEY



DETAIL KEYNOTES:

1. EXPANSION ANCHOR (TYP) (SEE TABLE 10.2–2).
2. MASON INDUSTRIES PC30 SPRING HANGER , SIZE AS REQUIRED (TYP) (SEE TABLE 10.2–2 FOR SPECIFIC SIZE REQUIREMENTS).
3. PIPING TECHNOLOGIES (FIGURE 89) ADJUSTABLE CLEVIS HANGER FOR INSULATED LINES (TYP). INSULATE AROUND PIPE AND HANGER AFTER INSTALLATION.
4. ALL THREAD ROD AND HARDWARE (TYP). MATERIAL AND SIZE AS REQUIRED (SEE TABLE 10.2–2).
5. SEE DETAIL 8, SHEET H6.10.08 FOR LATERAL AND TRANSVERSE BRACING REQUIREMENTS (SIM).

TABLE 10.2–2

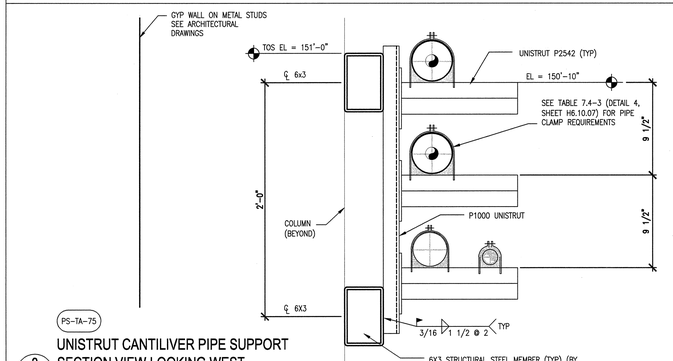
SUPPORT REQUIREMENTS					
PIPE SIZE (INCHES)	HANGER ROD SIZE (DIAMETER IN INCHES)	MAXIMUM TENSION LOAD ON EXPANSION ANCHOR (LBS)*	ANCHOR REQUIREMENT MATERIAL: CARBON STEEL BOLT DIAMETER (INCHES)	ANCHOR REQUIREMENT MATERIAL: CARBON STEEL EMBEDMENT DEPTH (INCHES)**	SPRING HANGER MODEL NO.
4	3/8	680	1/2	3 1/2	X–130

* LOAD ON SUPPORT MEMBERS SHALL NOT EXCEED THE MAXIMUM REPORTED ALLOWABLE CAPACITY OF THE ELEMENT.
** EMBEDMENT DEPTHS LESS THAN 3 1/2 INCHES ARE NOT ALLOWED.

TABLE 10.2–1

EXPANSION JOINTS					
ESPANSION JOINT TAG	PIPE SIZE (INCHES)	OPERATING TEMPERATURE (°F)	MINIMUM EXPANSION RATING (INCHES)	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NO.
EJ–TA–01	4	200	1.75"	MERCER	451 B
EJ–TA–02	4	200	0.75"	MASON	SAFEFLEX SFDEJ

2 EXPANSION JOINT SCHEDULE AND SUPPORT REQUIREMENTS
** SCALE: NO SCALE
** H3.B1.43, 44



3 UNISTRUT CANTILIVER PIPE SUPPORT SECTION VIEW LOOKING WEST
** SCALE: NO SCALE
** 7–H6.10.06, H5.10.45

DETAIL KEYNOTES:

1. EXPANSION ANCHOR (TYP) (SEE TABLE 10.2–2).
2. MASON INDUSTRIES PC30 SPRING HANGER , SIZE AS REQUIRED (TYP) (SEE TABLE 10.2–2 FOR SPECIFIC SIZE REQUIREMENTS).
3. PIPING TECHNOLOGIES (FIGURE 89) ADJUSTABLE CLEVIS HANGER FOR INSULATED LINES (TYP). INSULATE AROUND PIPE AND HANGER AFTER INSTALLATION.
4. ALL THREAD ROD AND HARDWARE (TYP). MATERIAL AND SIZE AS REQUIRED (SEE TABLE 10.2–2).
5. SEE DETAIL 8, SHEET H6.10.08 FOR LATERAL AND TRANSVERSE BRACING REQUIREMENTS (SIM).

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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM 4
ENGINEERING PROCEDURE SNS-ENG-G001

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE CONTROL NUMBER	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
0				CERTIFIED FOR CONSTRUCTION – 11/13/01	MMK	BWJ		11/13/01	RAD	11/14/01						11/16/01	BWJ	105869	11/13/01	REW	–	WRS	AK	WRS	BWJ	–	MP	–	ED

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE: BRUCE W. JOHNSON, REGISTERED ENGINEER, CONSULTING, No. 00103769, STATE OF TENNESSEE

DSN	B. JOHNSON	11/13/01
DRW	J. STEIN	11/13/01
CHK	B. JOHNSON	11/13/01
DEPT		
PE	Ed Darwin	11/13/01
PJ	R.D. Dean	11/14/01
REQ		
UTB		11/16/01

0 11/13/01 REV. DATE — DRAWING APPROVALS

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PROJECT NAME:
SPALLATION NEUTRON SOURCE

STANDARD MECHANICAL DETAILS
SHEET 10 OF 11

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	H	X	X	8	8000		1	1	S	U
51		52		53	WBS					REV
NC		NA			1.8		H6.10.13			0

Date: 11/13/2001 Time: 10:57:52
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AutoCAD