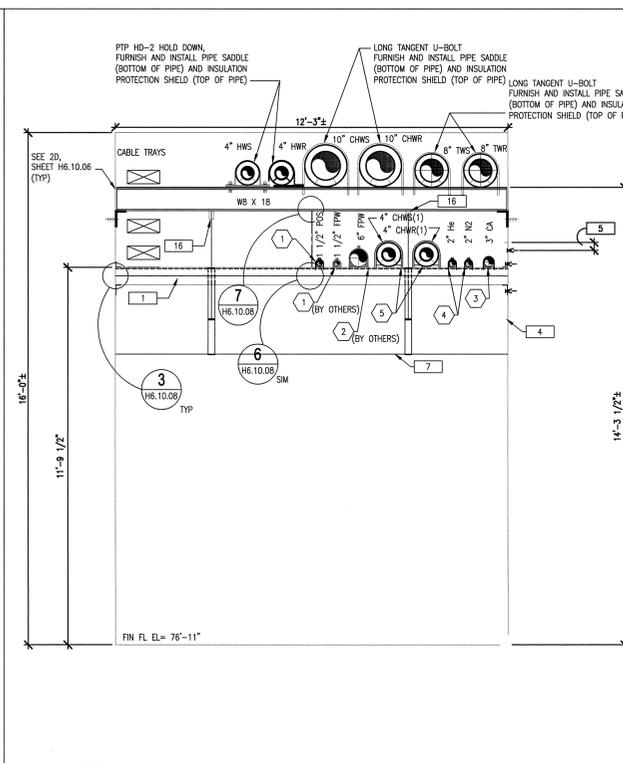


- DETAIL KEYNOTES:**
- UNISTRUT P1001 AW BEAM
 - UNISTRUT P1026 90° ANGLE FITTING TOP, UNISTRUT P1326 BOTTOM (TYP)
 - HILTI HY 150 INJECTION ADHESIVE ANCHOR, 3/8" DIA, 3 1/2" EMBEDMENT DEPTH (TYP)
 - UNISTRUT P1000 T BEAM (TYP) BOLTED TO WALL
 - 3" MIN CLR TO END OF STRUT
 - UNISTRUT P2073A POST BASE
 - NOT USED
 - UNISTRUT P2941 POST BASE
 - UNISTRUT P1281 ANGLE FITTING
 - UNISTRUT P1001 AW VERTICAL MEMBER
 - 2" 2-5/8" EXPANSION ANCHORS W/ 4" EMBEDMENT (TYP)
 - 1/2" x 1/2" x 12 GAGE WELDED TO DUCT PER DETAIL. DO NOT INSULATE DUCT AT SUPPORT LOCATIONS (PCE ONLY).
 - (2) STAINLESS STEEL SHEET METAL STRAPS - 2 1/2" x 12 GAGE WELDED TO DUCT PER DETAIL. DO NOT INSULATE DUCT AT SUPPORT LOCATIONS (PCE ONLY).

DETAIL FITTING SCHEDULE:

TAG	FITTING
1	UB1-1/2PA
2	UB6PA
3	UB3PA
4	UB2PA

5 PS-TA-01 PIPING SUPPORT DETAIL (SECTION VIEW LOOKING EAST)
SCALE: 1/2"=1'-0"

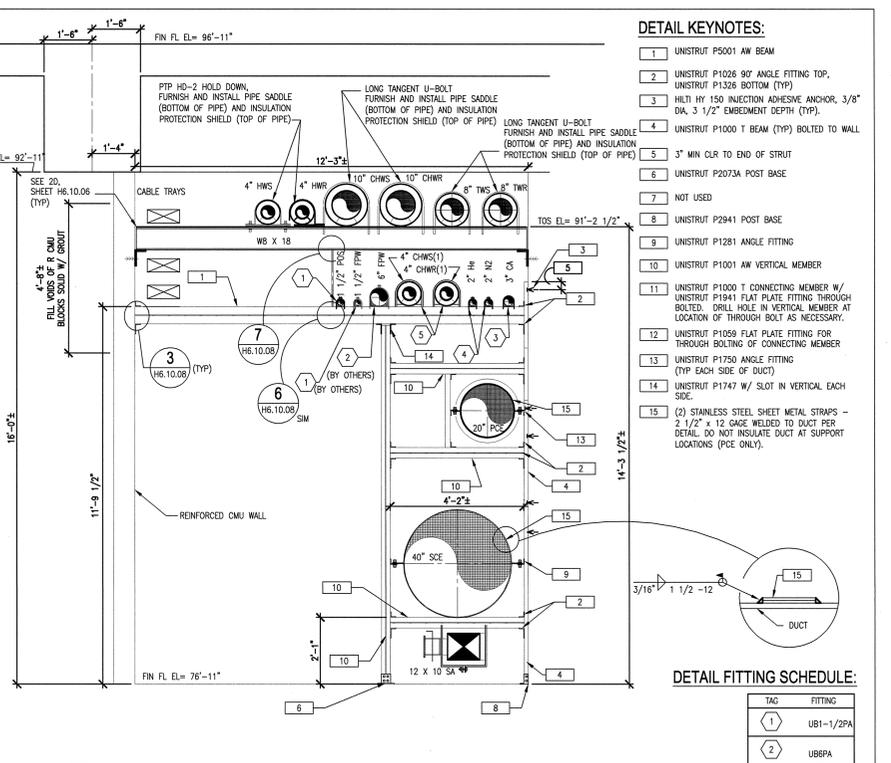


- DETAIL KEYNOTES:**
- UNISTRUT P5001 AW BEAM
 - NOT USED
 - NOT USED
 - UNISTRUT P1000 T BEAM (TYP) BOLTED TO WALL
 - 3" MIN CLR TO END OF STRUT
 - UNISTRUT P2073A POST BASE
 - PIPING/DUCTWORK CROSSING PERPENDICULAR TO SECTION SUPPORTED FROM P5001 AW MEMBERS.
 - UNISTRUT P2941 POST BASE
 - UNISTRUT P1281 ANGLE FITTING
 - UNISTRUT P1001 AW VERTICAL MEMBER
 - UNISTRUT P1000 T CONNECTING MEMBER W/ UNISTRUT P1841 FLAT PLATE FITTING THROUGH BOLTED. DRILL HOLE IN VERTICAL MEMBER AT LOCATION OF THROUGH BOLT AS NECESSARY.
 - UNISTRUT P1059 FLAT PLATE FITTING FOR THROUGH BOLTING OF CONNECTING MEMBER (TYP EACH SIDE OF DUCT)
 - UNISTRUT P1750 ANGLE FITTING (TYP EACH SIDE OF DUCT)
 - UNISTRUT P1747 W/ SLOT IN VERTICAL EACH SIDE
 - (2) STAINLESS STEEL SHEET METAL STRAPS - 2 1/2" x 12 GAGE WELDED TO DUCT PER DETAIL. DO NOT INSULATE DUCT AT SUPPORT LOCATIONS (PCE ONLY).
 - P5000 AW CROSS BEAM PERPENDICULAR FOR SUPPORTING DUCTWORK AND PIPING ROUTING PERPENDICULAR TO THE MAIN PIPING RUN. USE P2867A FOR CONNECTING TO I-BEAM.

DETAIL FITTING SCHEDULE:

TAG	FITTING
1	UB1-1/2PA
2	UB6PA
3	UB3PA
4	UB2PA
5	UB8PA

3 PS-TA-04 PIPING SUPPORT DETAIL (SECTION VIEW LOOKING EAST)
SCALE: 1/2"=1'-0"

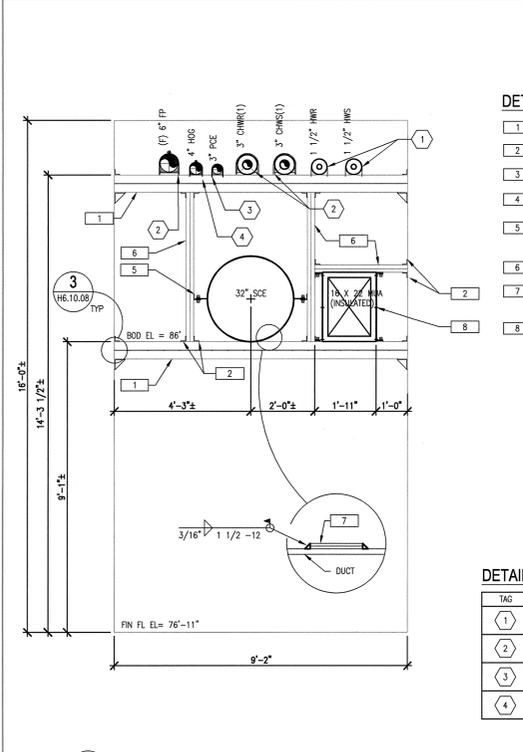


- DETAIL KEYNOTES:**
- UNISTRUT P5001 AW BEAM
 - UNISTRUT P1026 90° ANGLE FITTING TOP, UNISTRUT P1326 BOTTOM (TYP)
 - HILTI HY 150 INJECTION ADHESIVE ANCHOR, 3/8" DIA, 3 1/2" EMBEDMENT DEPTH (TYP)
 - UNISTRUT P1000 T BEAM (TYP) BOLTED TO WALL
 - 3" MIN CLR TO END OF STRUT
 - UNISTRUT P2073A POST BASE
 - NOT USED
 - UNISTRUT P2941 POST BASE
 - UNISTRUT P1281 ANGLE FITTING
 - UNISTRUT P1001 AW VERTICAL MEMBER
 - UNISTRUT P1000 T CONNECTING MEMBER W/ UNISTRUT P1841 FLAT PLATE FITTING THROUGH BOLTED. DRILL HOLE IN VERTICAL MEMBER AT LOCATION OF THROUGH BOLT AS NECESSARY.
 - UNISTRUT P1059 FLAT PLATE FITTING FOR THROUGH BOLTING OF CONNECTING MEMBER (TYP EACH SIDE OF DUCT)
 - UNISTRUT P1750 ANGLE FITTING (TYP EACH SIDE OF DUCT)
 - UNISTRUT P1747 W/ SLOT IN VERTICAL EACH SIDE
 - (2) STAINLESS STEEL SHEET METAL STRAPS - 2 1/2" x 12 GAGE WELDED TO DUCT PER DETAIL. DO NOT INSULATE DUCT AT SUPPORT LOCATIONS (PCE ONLY).

DETAIL FITTING SCHEDULE:

TAG	FITTING
1	UB1-1/2PA
2	UB6PA
3	UB3PA
4	UB2PA

1 PS-TA-02 PIPING SUPPORT DETAIL (SECTION VIEW LOOKING EAST)
SCALE: 1/2"=1'-0"

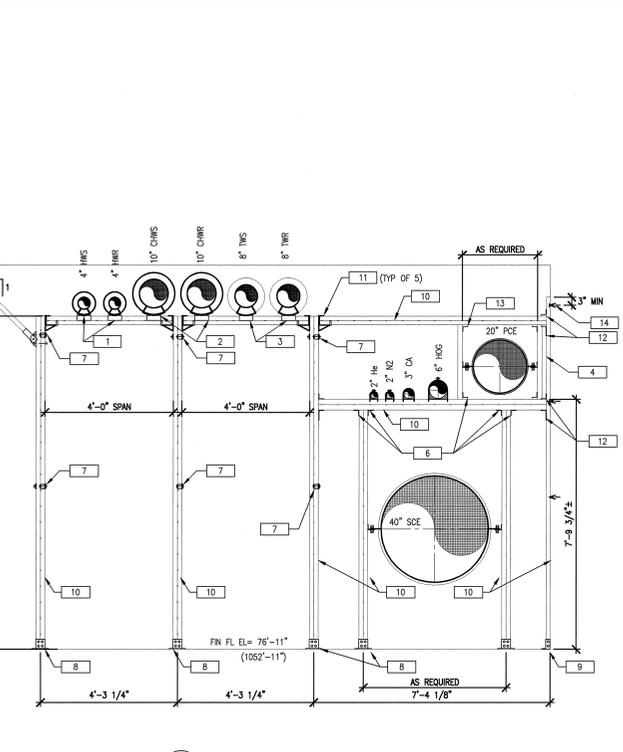


- DETAIL KEYNOTES:**
- UNISTRUT P5001 AW BEAM
 - UNISTRUT P1026 90° ANGLE FITTING TYP FOR CONNECTIONS OF P1001 AW MEMBERS.
 - NOT USED
 - NOT USED
 - UNISTRUT P1281 ANGLE FITTING (TYP EACH SIDE OF DUCT) FOR CONNECTING DUCT STRAPPING TO SUPPORT.
 - UNISTRUT P1001 AW MEMBER
 - (2) STAINLESS STEEL SHEET METAL STRAPS - 2 1/2" x 12 GAGE WELDED TO DUCT PER DETAIL.
 - (2) STEEL SHEET METAL STRAPS EACH SIDE - 2 1/2" x 12 GAGE - ATTACHED TO DUCT W/ SELF TAPPING SHEET METAL SCREWS AT 12" O.C. CONNECT STRAP ENDS TO SUPPORT RACK.

DETAIL FITTING SCHEDULE:

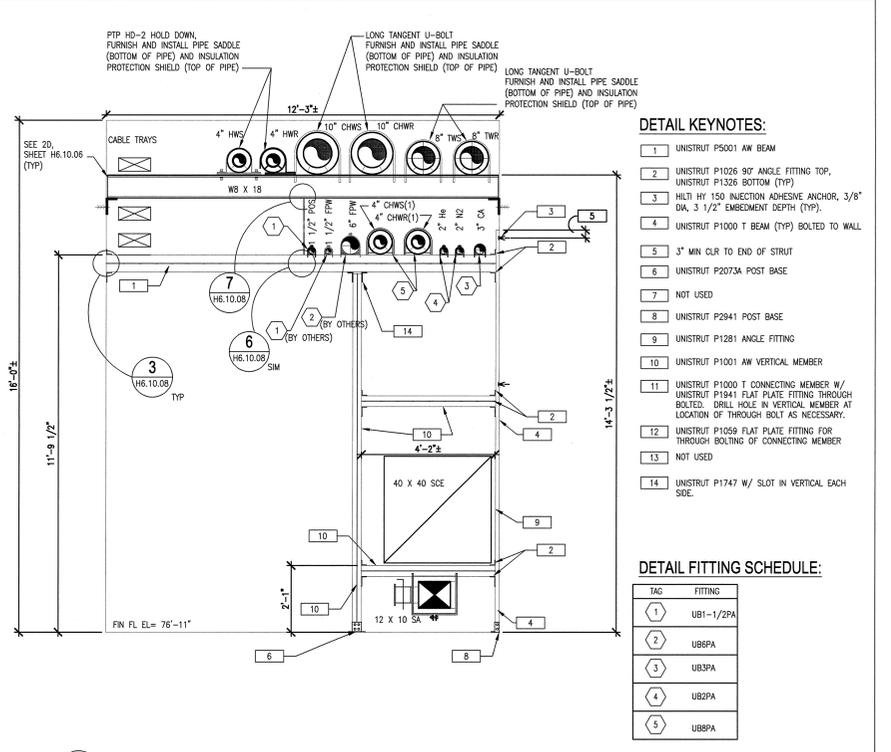
TAG	FITTING
1	068N096
2	106N114
3	056N062
4	072N060

6 PS-TA-09 PIPING SUPPORT DETAIL (SECTION VIEW LOOKING NORTH)
SCALE: 1/2"=1'-0"



- DETAIL KEYNOTES:**
- PIPE COVERING SADDLE (4" PIPE W/ 2" INSULATION) SET ON UNISTRUT P1376A U FITTING.
 - PIPE COVERING SADDLE (10" PIPE W/ 2 1/2" INSULATION) SET ON UNISTRUT P1376A U FITTING.
 - PIPE COVERING SADDLE (8" PIPE W/O INSULATION) SET ON UNISTRUT P1376A U FITTING.
 - UNISTRUT P1000 T BEAM (TYP) BOLTED TO WALL
 - SEE DETAIL 8, SHEET H6.10.08 FOR LATERAL AND TRANSVERSE BRACING REQUIREMENTS.
 - UNISTRUT P1026 ANGLE FITTING.
 - UNISTRUT P1000 T CONNECTING MEMBER W/ UNISTRUT P1841 FLAT PLATE FITTING THROUGH BOLTED. DRILL HOLE IN VERTICAL MEMBER AT LOCATION OF THROUGH BOLT AS NECESSARY. ATTACH TO WALL THROUGH BOLTED TO P2072 POST BASE ANCHORED W/ HILTI HY 150 INJECTION ADHESIVE ANCHOR (3/8" DIA, 3 1/2" EMBEDMENT DEPTH).
 - UNISTRUT P2073A POST BASE
 - UNISTRUT P2941 POST BASE
 - UNISTRUT P1001 AW VERTICAL MEMBER
 - UNISTRUT P1593 BRACKET
 - UNISTRUT P1026 90° ANGLE FITTING TOP, UNISTRUT P1326 BOTTOM (TYP)
 - UNISTRUT P1000 T VERTICAL MEMBER W/ P1026 ANGLE FITTING
 - HILTI HY 150 INJECTION ADHESIVE ANCHOR, 3/8" DIA, 3 1/2" EMBEDMENT DEPTH. TYPICAL OF 3 AT 3'-0" O.C.

4 PIPING SUPPORT DETAIL (SECTION VIEW)
SCALE: 1/2"=1'-0"



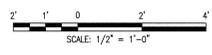
- DETAIL KEYNOTES:**
- UNISTRUT P5001 AW BEAM
 - UNISTRUT P1026 90° ANGLE FITTING TOP, UNISTRUT P1326 BOTTOM (TYP)
 - HILTI HY 150 INJECTION ADHESIVE ANCHOR, 3/8" DIA, 3 1/2" EMBEDMENT DEPTH (TYP)
 - UNISTRUT P1000 T BEAM (TYP) BOLTED TO WALL
 - 3" MIN CLR TO END OF STRUT
 - UNISTRUT P2073A POST BASE
 - NOT USED
 - UNISTRUT P2941 POST BASE
 - UNISTRUT P1281 ANGLE FITTING
 - UNISTRUT P1001 AW VERTICAL MEMBER
 - UNISTRUT P1000 T CONNECTING MEMBER W/ UNISTRUT P1841 FLAT PLATE FITTING THROUGH BOLTED. DRILL HOLE IN VERTICAL MEMBER AT LOCATION OF THROUGH BOLT AS NECESSARY.
 - UNISTRUT P1059 FLAT PLATE FITTING FOR THROUGH BOLTING OF CONNECTING MEMBER (TYP EACH SIDE OF DUCT)
 - UNISTRUT P1747 W/ SLOT IN VERTICAL EACH SIDE
 - NOT USED

DETAIL FITTING SCHEDULE:

TAG	FITTING
1	UB1-1/2PA
2	UB6PA
3	UB3PA
4	UB2PA
5	UB8PA

2 PS-TA-03 PIPING SUPPORT DETAIL (SECTION VIEW LOOKING EAST)
SCALE: 1/2"=1'-0"

NOTE:
THIS DETAILS SHEET IS FOR THE TARGET BUILDING ONLY.



108000000-H8E-8000-A009

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UT-BATTELLE, LLC, c/o Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE

STANDARD MECHANICAL DETAILS SHEET 5 OF 11

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	H	X	X	8	8000	1	1	1	S	U
51	52	53	WBS							
NC	NA	5.3	1.8							

H6.10.05

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	CM	PD	SE	AR
0		CERTIFIED FOR CONSTRUCTION - 11/13/01	MMK	BNJ																							
1	11/13/01	REVISION OR ISSUE PURPOSE																									

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SECTION AND DETAIL KEY

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