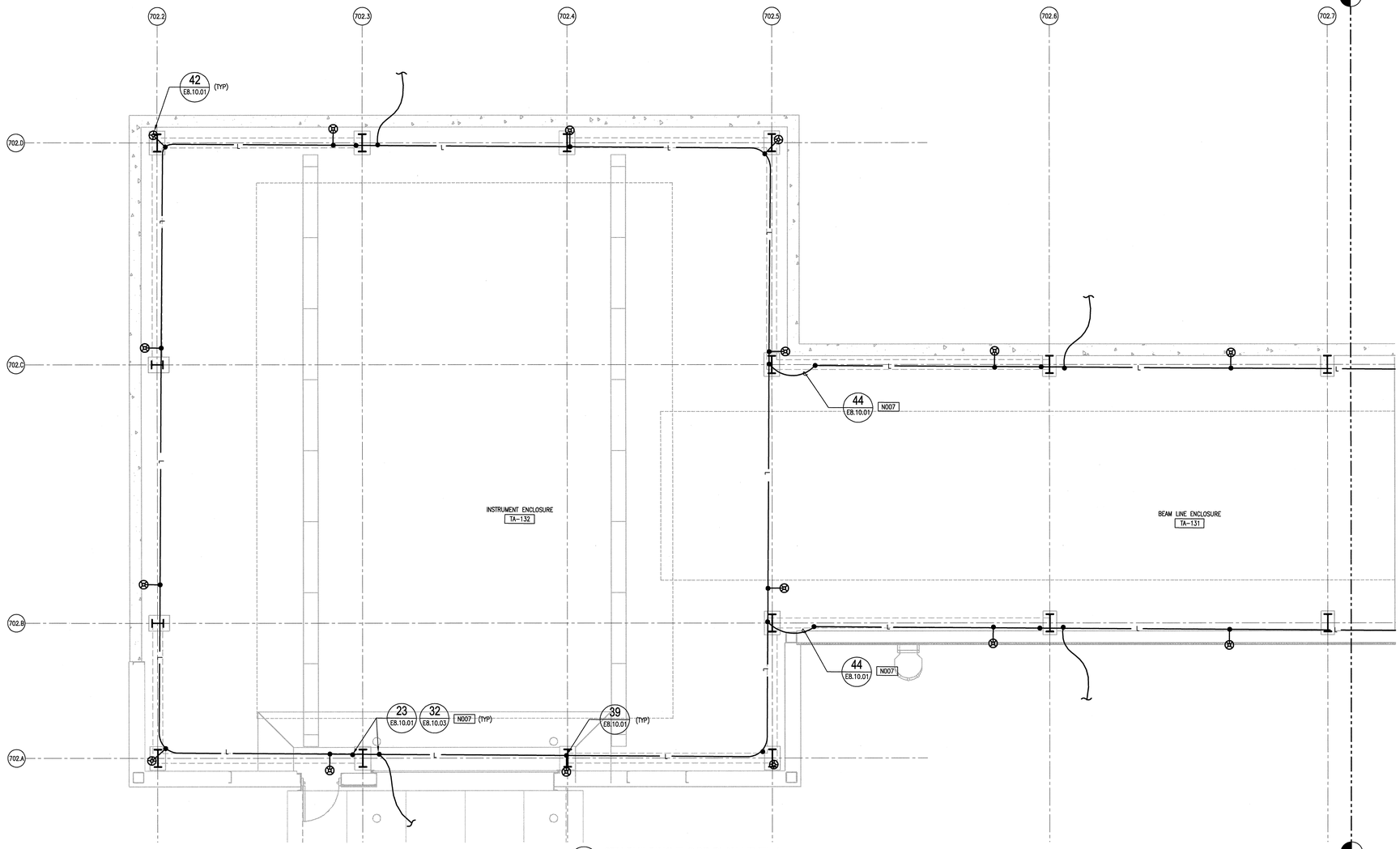
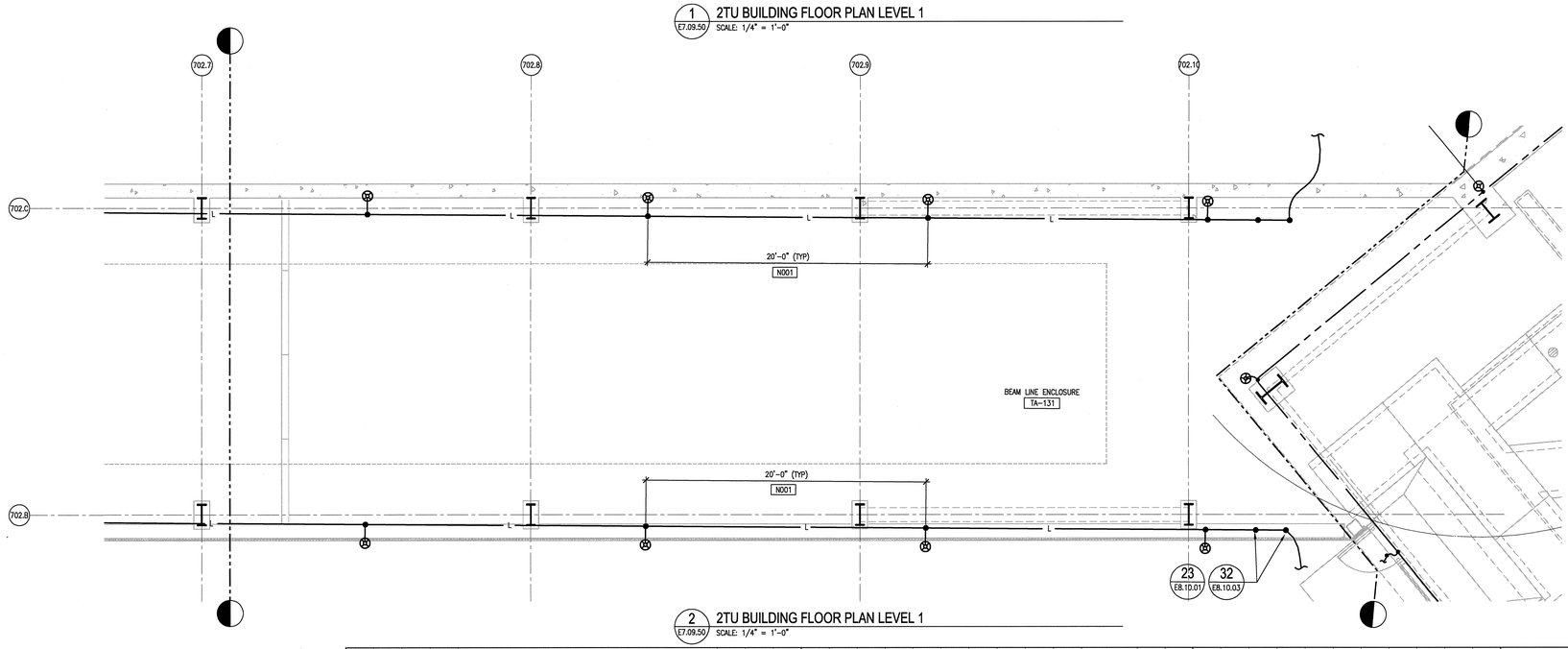


1 E7.09.50 2TU BUILDING FLOOR PLAN LEVEL 1
SCALE: 1/4" = 1'-0"



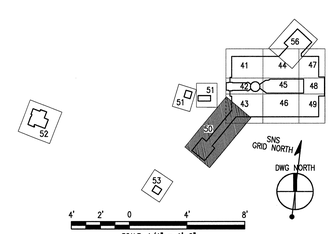
2 E7.09.50 2TU BUILDING FLOOR PLAN LEVEL 1
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. CONCRETE MAT FOUNDATION SUBCONTRACTOR SHALL PROVIDE GROUND CONDUCTOR PIG TAILS OR PLATES AT THE REQUIRED LOCATIONS THROUGH THE MAT, FOR ABOVE MAT CONNECTIONS BY OTHERS. REFER DETAIL 3 ON DRAWING E8.10.02. SEE NOTE 10.
2. ALL GROUNDING CONDUCTORS SHALL BE #4/0 STRANDED BARE COPPER (SBC) UNLESS NOTED OTHERWISE.
3. ALL GROUND CONNECTIONS SHALL BE EXOTHERMIC CADWELD.
4. THE MAT FOUNDATION SUBCONTRACTOR TO PROVIDE 5 FT. OF COILED GROUND CABLE FOR LATER CONNECTION TO THE UNDER GROUND CONDUITS STUBUP IN SWGR, MCC, ELEC. COMPONENT. REFER DETAILS ON DWG. E8.10.02 AS REQUIRED.
5. STUB-UP UNDERGROUND CONDUIT W/ GROUNDING BUSHING.
6. THE INSTRUMENT GROUND PLATE IN THE UTILITY TRENCH SHALL NOT MAKE CONTACT TO METAL EXCEPT INSULATED GROUND CABLE.

SHEET KEYNOTES:

N001	20' MAX SPACING BETWEEN AIR TERMINALS ALONG PERIMETER CABLE & AIR TERMINALS MUST BE WITHIN 24" OF OUTSIDE FACE OF BUILDING.
N002	50' MAX SPACING OF CROSS RUN CONDUCTOR TO MAIN PERIMETER CONDUCTOR.
N003	100' AVERAGE SPACING, BETWEEN DOWN CONDUCTORS, ROUTE IN 1" PVC CONDUIT & CONNECT TO MAIN GROUNDING GRID. THE DOWNLEAD CONDUCTOR SHALL BE ATTACHED TO STRUCTURAL STEEL OR CONCRETE COLUMNS WITH UL LISTED CONNECTIONS.
N004	FOR DOWNLEAD CONDUCTOR ROOF DECK PENETRATION SEE DETAIL 32, DWG E8.10.03.
N005	MAIN ROOF AND DOWNLEAD CONDUCTORS SHALL BE #28 STRANDS OF 14 GAUGE CU WIRE.



108030700-E8E-8702-A005

Knight/Jacobs

Knight/Jacobs Joint Venture
701 Scarboro Road, MS 8253
Oak Ridge, TN 37830
865-241-9433
fax 865-241-3400

KNIGHT
Knight Advanced Technology
540 West Randolph Street
Chicago, IL 60661

UT-BATTELLE

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

PROJECT NAME:
SPALLATION NEUTRON SOURCE

INSTRUMENT 2TU ENCLOSURE ELECTRICAL LIGHTNING PLAN LEVEL 1, SECTOR 50

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8702		1	1	P	U

51	52	53	WBS		REV
NC	NA		1.8.3.7	E7.09.50	0

DSN	H GROVER	10/26/01
DRW	L. MAKOVSKY	10/26/01
CHK	V.STEFFEN	10/26/01
DEPT		
PE		11/15/01
PJ	R A Dean	11/13/01
REQ		
UTB		11/12/01

RPE
VICTOR G. STEFFEN
REGISTERED ENGINEER
No. 0016000
COMMERCIAL
STATE OF TENNESSEE

0 10-26-01
REV. DATE
DRAWING APPROVALS

REV	CHANGE FOR	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT
0				CERTIFIED FOR CONSTRUCTION – 10/26/01	HG	VGS	

REVISION OR ISSUE PURPOSE

DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE
	11/14/01	11/14/01	11/13/01				11/12/01		VGS	00106009	10/26/01

REVISION APPROVALS

REW	–	WRS	AK	WRS	BWJ	–	MP	–	ED
ST	CV	EC	EE	EM	IE	M	PD	SE	AR

SQUAD CHECK

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 BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

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 3
ENGINEERING PROCEDURE SNS-ENG-0001

Date: 10/24/2001 Time: 10:29:06
Username: MONES
H:\SPE_VOL2\PROJECTS\1000\100_CADD\1MSK_SA\1_PLT\7-E7-50.DWG

AutoCAD