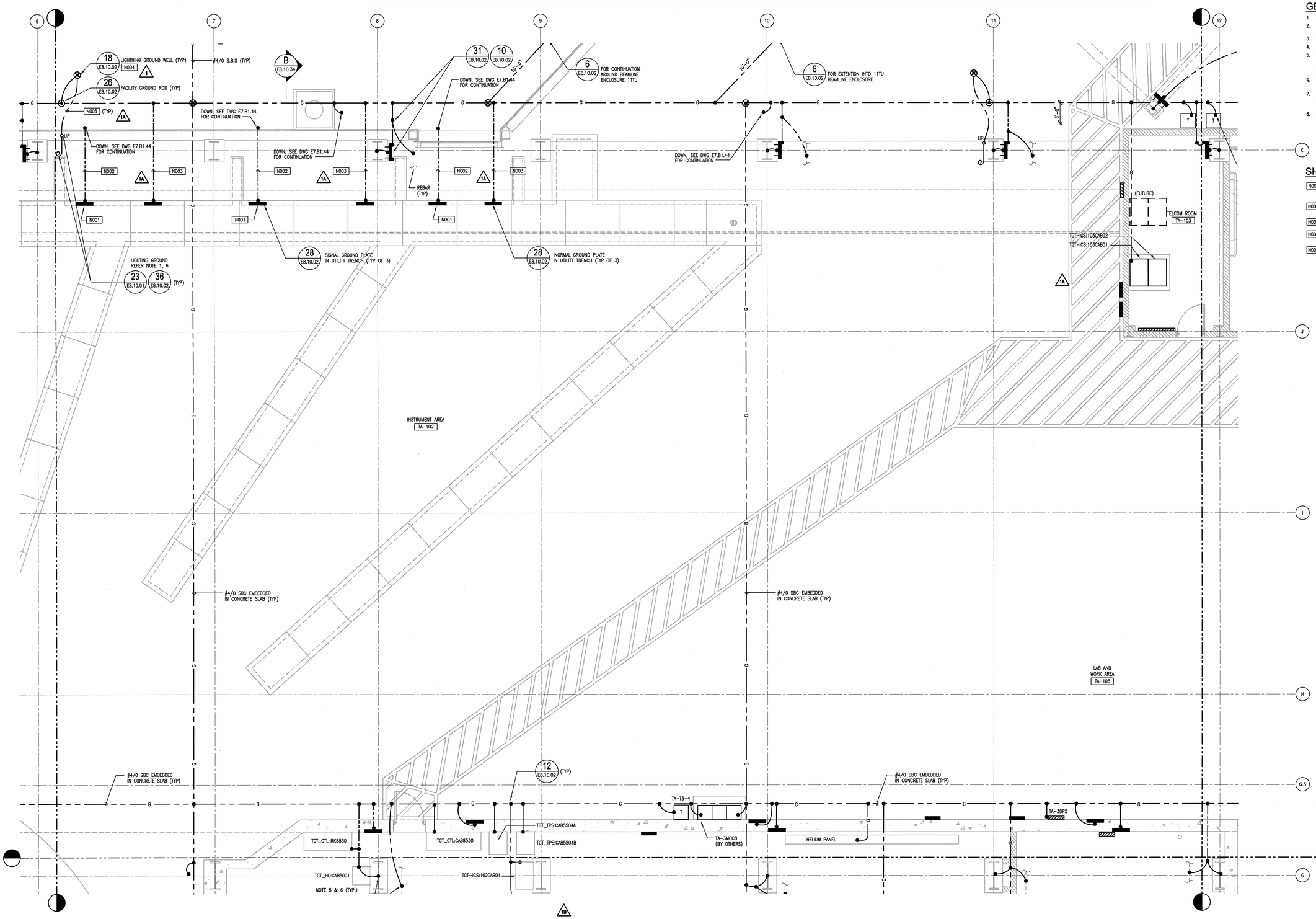
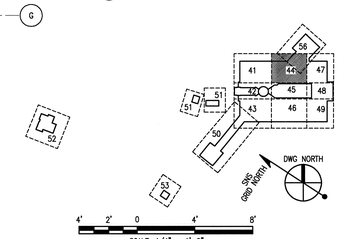


GENERAL NOTES:

1. NOT USED.
2. ALL GROUNDING CONDUCTORS SHALL BE #4/0 STRANDED BARE COPPER (SBC), UNLESS NOTED OTHERWISE.
3. ALL GROUND CONNECTIONS SHALL BE EXOTHERMIC.
4. STUB-UP UNDERGROUND CONDUIT W/ GROUNDING BUSHING.
5. INSTALL GROUND BAR ON COLUMNS AS SHOWN. GROUND STEEL COLUMN TO THE GROUND BAR, IF INSTALLED ON THE COLUMN, UNLESS SHOWN OTHERWISE. GROUND ALTERNATE STEEL COLUMN AND REBAR DIRECTLY TO GROUND GRID CONDUCTORS.
6. LIGHTNING PROTECTION SYSTEM DOWN CONDUCTORS TO BE ATTACHED TO STRUCTURAL STEEL OR CONCRETE COLUMNS WITH UL LISTED CONNECTORS.
7. IN EACH AREA CONTAINING ELECTRICAL EQUIPMENT, ACCESS TO THE GROUNDING SYSTEM MUST BE AVAILABLE EITHER FROM STRUCTURAL STEEL OR THE BUILDING GROUND GRID.
8. ALL GROUND CONDUCTORS SHOWN WITHIN THE BUILDING ARE EMBEDDED IN THE FLOOR CONCRETE.

SHEET KEYNOTES:

N001	THE INSTRUMENT GROUND PLATES IN THE UTILITY TRENCH SHALL NOT MAKE CONTACT TO METAL EXCEPT INSULATED GROUND CABLE.
N002	#4/0 COPPER GREEN INSULATED GROUND CABLE RATED 600V TYPE THHN EMBEDDED IN CONCRETE FLOOR SLAB.
N003	#4/0 STRANDED BARE COPPER (SBC) CONDUCTOR.
N004	MAINTAIN MINIMUM 6'-0" BETWEEN LIGHTNING GROUND WELL AND ANY FACILITY GROUND WELL/ROD.
N005	28 STRANDS OF 14 CAUGE COPPER WIRE TO LIGHTNING GROUND WELL.



108030700-E8E-8700-A147

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

KNIGHT
Knight Advanced Technology
549 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

TARGET BUILDING
ELECTRICAL GROUNDING PLAN
LEVEL 1, SECTOR 44

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST 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
2				CERTIFIED FOR CONSTRUCTION – 10/26/01	HG	VGS		10/19/01		11/13/01	RAD	11/13/01				11/13/01	VGS	106009	10/26/01	REW	–	WRS	AK	WRS	BWJ	–	MP	–	ED
1	A	3	1–13	DCN T – 01 THRU T –013 – 9/21/01	HG	VGS		CLG	10/2/01	RAD	10/2/01				JRL	10/2/01	VGS	00106009	9/21/01	SC	–	WRS	RL	WRS	BWJ	–	MP	–	WAS
0				SUBSTRUCTURES CERTIFIED FOR CONSTRUCTION – 4/18/01	HG	VGS		CLG	4/18/01	RAD	4/18/01				JRL	4/19/01	VGS	00106009	4/13/01	SC	–	WRS	RL	WRS	BWJ	–	MP	–	WAS

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE: VICTOR G. STEFFEN, REGISTERED PROFESSIONAL ENGINEER, No. 00106009, STATE OF TENNESSEE

REV.	DATE
2	10-24-01

DRAWING APPROVALS

DSN	H GROVER	4/13/01
DRW	L. MAKOVSKY	4/13/01
CHK	V.STEFFEN	4/13/01
DEPT		
PE	C.L. GARREN	4/18/01
PJ	R.A. DEAN	4/18/01
REQ		
UTB	J.R. LAWSON	4/19/01

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8700		1	1	P	U

51	52	53	WBS		REV
NC	NA		1.8.3.7	E7.01.44	2

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.

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-G001

Date: 10/25/2001 Time: 15:20:51
Username: PNORDSTROM
K:\SPS_APS\PNORDSTR\7000\765_CAD\7365K_S4\765_PLOT\E7-01-44.DWG

AutoCAD