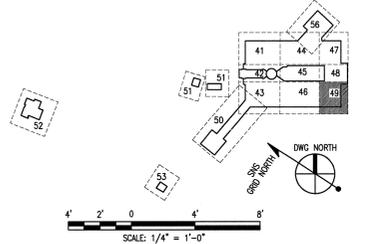
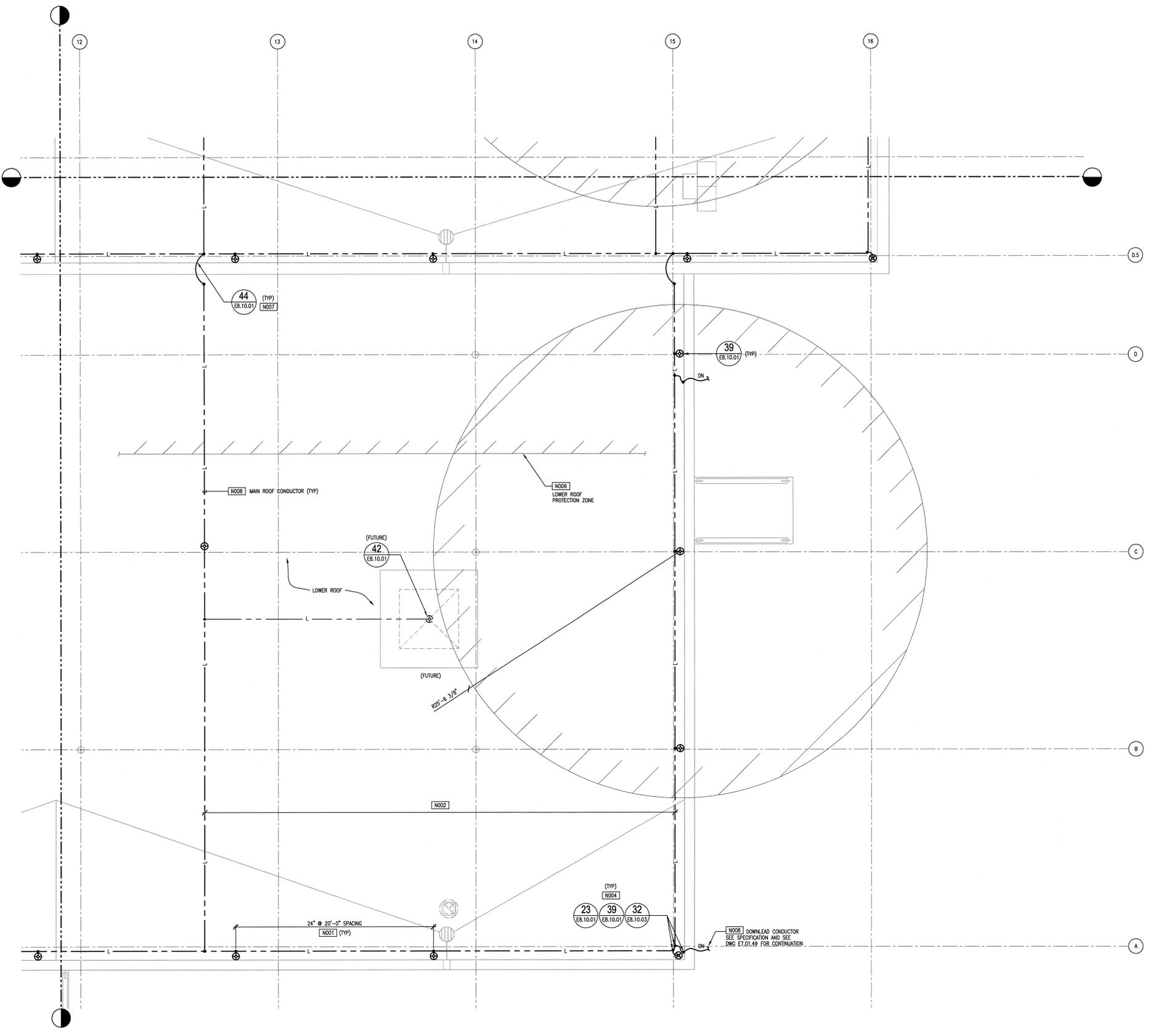


- SHEET KEYNOTES:**
- NO01 20' MAX SPACING BETWEEN AIR TERMINALS ALONG PERIMETER CABLE & AIR TERMINALS MUST BE WITHIN 24" OF OUTSIDE FACE OF BUILDING.
  - NO02 50' MAX SPACING OF CROSS RUN CONDUCTOR TO MAIN PERIMETER CONDUCTOR.
  - NO03 NOT USED.
  - NO04 100' AVERAGE SPACING BETWEEN DOWN CONDUCTORS, ROUTE IN 1" PVC CONDUIT & CONNECT TO MAIN GROUNDING GRID. THE DOWNLOAD CONDUCTOR SHALL BE ATTACHED TO STRUCTURAL STEEL OR CONCRETE COLUMNS WITH LI LISTED CONNECTIONS.
  - NO05 FOR LOWER ROOF OR GENTLY SLOPING ROOF, INSTALL AND PROVIDE ADDITIONAL STRIKE TERMINATION DEVICE, LOCATE AT INTERVAL NOT TO EXCEED 50'.
  - NO06 THE ZONE OF PROTECTION FOR A LOWER ROOF IS THE SPACE LOCATED BENEATH 150' RADIUS ARC WHICH IS 1/1 LINE, 45° ANGLE.
  - NO07 FOR DOWNLOAD CONDUCTOR ROOF DECK PENETRATION SEE DETAIL 32, DWG E8.10.03.
  - NO08 MAIN ROOF AND DOWNLOAD CONDUCTORS SHALL BE #28 STRANDS OF 14 GAUGE CU WIRE.



108030700-E8E-8700-A176

**KNIGHT**  
Knight Advanced Technology  
140 West Orange Street  
Chattanooga, TN 37402

**UT-BATTELLE**  
Oak Ridge National Laboratory  
managed for the DEPARTMENT OF ENERGY under  
U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725  
UT-BATTELLE, LLC, c/o Oak Ridge, Tennessee

PROJECT NAME:  
**SPALLATION NEUTRON SOURCE**  
**ELECTRICAL LIGHTNING PLAN**  
**ROOF, SECTOR 49**

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	S3	1.8.3.7	0						

DSN	H GROVER	10/26/01
DRW	L MAKOVSKY	10/26/01
CHK	V STEFFEN	10/26/01
DEPT		
PE	<i>[Signature]</i>	11/16/01
PJ	<i>[Signature]</i>	11/16/01
REQ		
REV.	0	10-26-01
LITE	<i>[Signature]</i>	11/16/01

REV	DATE	DESCRIPTION	DESIGN	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 - 10/26/01	HG	VGS														REW	-	WRS	AK	WRS	BNJ	-	MP	-	ED
1	10/26/01		DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE										

THIS DOCUMENT CONTROLLED BY  
CHANGE CONTROL SYSTEM 3  
ENGINEERING PROCEDURE SNS-ENG-0001

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

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