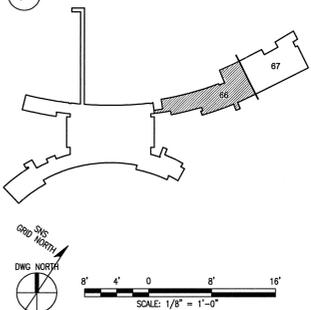
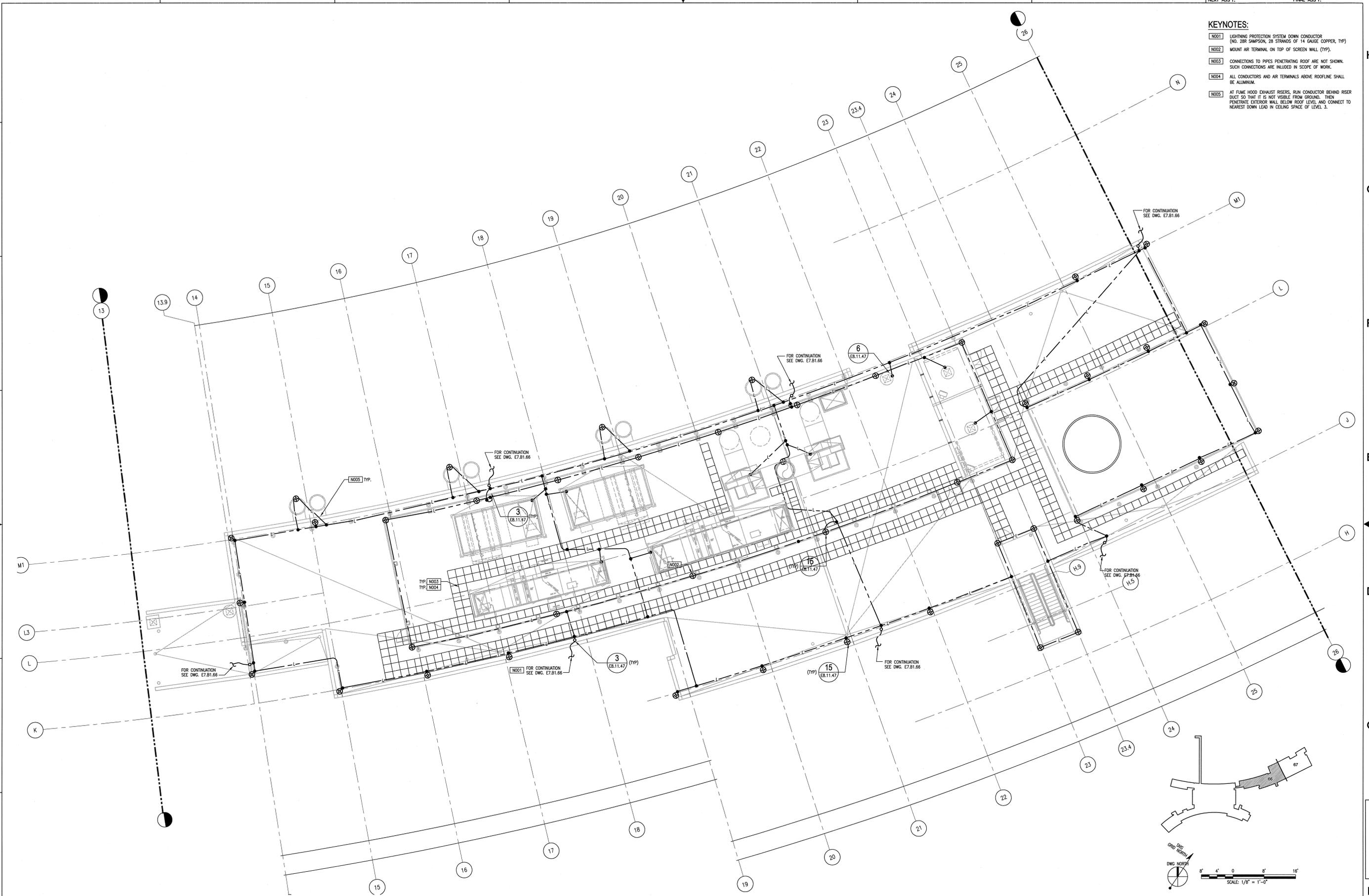


- KEYNOTES:**
- N001 LIGHTNING PROTECTION SYSTEM DOWN CONDUCTOR (NO. 28R SAMPSON, 28 STRANDS OF 14 GAUGE COPPER, TYP)
 - N002 MOUNT AIR TERMINAL ON TOP OF SCREEN WALL (TYP).
 - N003 CONNECTIONS TO PIPES PENETRATING ROOF ARE NOT SHOWN. SUCH CONNECTIONS ARE INCLUDED IN SCOPE OF WORK.
 - N004 ALL CONDUCTORS AND AIR TERMINALS ABOVE ROOFLINE SHALL BE ALUMINUM.
 - N005 AT FUME HOOD EXHAUST RISERS, RUN CONDUCTOR BEHIND RISER DUCT SO THAT IT IS NOT VISIBLE FROM GROUND. THEN PENETRATE EXTERIOR WALL BELOW ROOF LEVEL AND CONNECT TO NEAREST DOWN LEAD IN CEILING SPACE OF LEVEL 3.



ORNL DRAWING NUMBER:
 Knight/Jacobs Joint Venture
 701 Scarborough Road, MS 8253
 Oak Ridge, TN 37830
 865-241-9433
 fax 865-241-3400

M+W Zander U.S. Operations, Inc.
 649 West Randolph Street
 Chicago, IL 60661
 Telephone: (312) 677-3200
 Fax: (312) 677-3525

UT-BATTELLE
 managed for the DEPARTMENT OF ENERGY under
 U.S. GOVERNMENT contract DE-AC05-00OR22725
 UT-BATTELLE, LLC, a Gase Ridge, Tennessee

PROJECT NAME:
**CENTER FOR NANOPHASE MATERIALS SCIENCES
 ELECTRICAL LIGHTNING PLAN
 ROOF - SECTOR 66**

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 ASSIGNED 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.

SECTION AND DETAIL KEY

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

THIS DOCUMENT CONTROLLED BY
 CHANGE CONTROL SYSTEM
 ENGINEERING PROCEDURE

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	M	PD	SE	AR
0	-	CERTIFIED FOR CONSTRUCTION 12/9/02	CR	VGS		9/26/01	JS	9/24/01	JS	9/25/01	VGS	106009						RZ	AW	BNJ	AK	IM	DM		BNJ		TW

RPE

DSN	C. RUNG	12/09/02
DRW	L. MANKOVSKY	12/09/02
CHK	V. STEFFEN	12/09/02
DEPT		
RPE	CLG	
PJ	JS	1/29/03
REQ	JS	1/29/03

REV. 0 DATE 12/10/02

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8610	1	1	P	U	
51	52	53	A/E DRAWING NUMBER:		E7.04.66					
NC	NA	NA			REV					

AutocAD