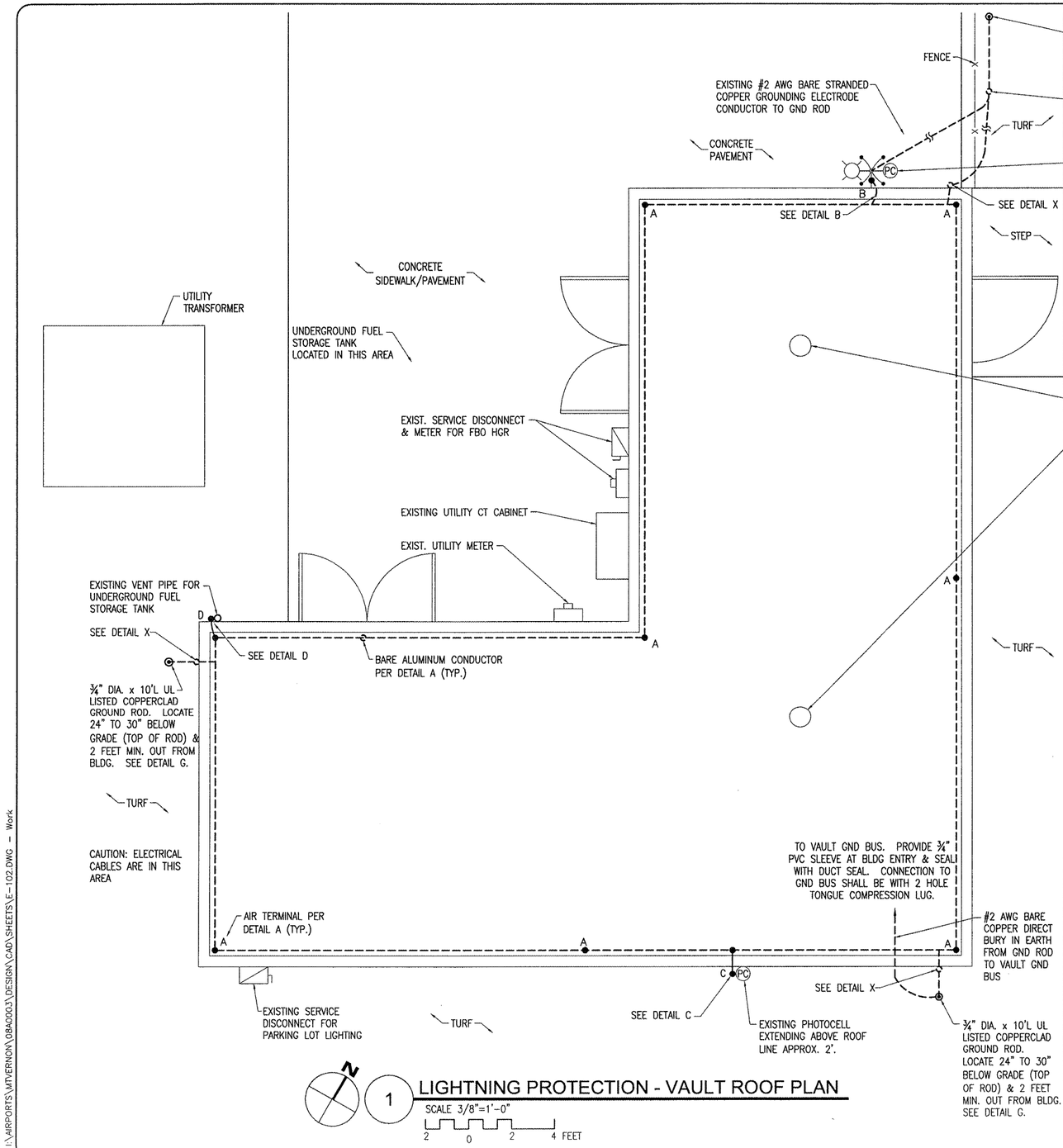
MV056



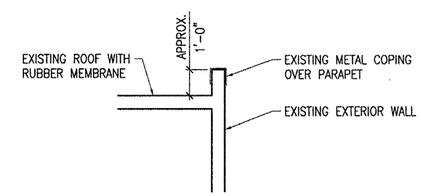
1 LIGHTNING PROTECTION - VAULT ROOF PLAN

TYPICAL SYMBOL LEGEND

- • : AIR TERMINAL: LETTER DENOTES DETAIL TYPE
- - - - - : MAIN CONDUCTOR
- ■ : THRU ROOF PENETRATION: LETTER DENOTES DETAIL TYPE
- ↑ : BONDING CONNECTION: SEE SPECIFIC DETAIL
- ⊙—▶ : EXPOSED/PITCHED DOWNLEAD TO GROUND
- ⊙ : GROUND ROD

GENERAL AND INSTALLATION NOTES

1. LOCATE AIR TERMINALS AS SHOWN. TAKE CARE TO INSURE THAT ALL POINTS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS, AND RIDGE ENDS, AND THAT MAXIMUM SPACING DOES NOT EXCEED 20'-0", AND THAT MINIMUM PROJECTION ABOVE OBJECT PROTECTED IS 10". (POINTS PROJECTING 24" MAY BE SPACED @ 25' MAX.
2. MAINTAIN HORIZONTAL OR DOWNWARD COURSING OF MAIN CONDUCTOR AND INSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90° .
3. ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 3'-0" ON CENTER MAXIMUM. VERIFY COMPATIBILITY OF ADHESIVE ON MEMBRANE ROOF APPLICATIONS PRIOR TO INSTALLATION
4. GROUND ELECTRODES SHALL BE INSTALLED AS SHOWN BUT IN NO INSTANCE SHALL THEY BE LESS THAN 2'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL. DRIVEN RODS SHALL PENETRATE EARTH AT LEAST 10'-0".
5. INTERCONNECT LIGHTNING PROTECTION GROUNDS TO VAULT BUILDING GROUND BUS SYSTEM AS SHOWN.
6. LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 780-STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS, IN CONFORMANCE WITH MFR INSTRUCTIONS AND AS SHOWN TO INSURE PROPER CODE COMPLIANCE AND SYSTEM CERTIFICATION. SHOP DRAWINGS ARE REQUIRED. ANY MAJOR VARIANCE SHALL REQUIRE RESUBMITTAL AND NEW APPROVAL.
7. "AS-BUILT" DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH CERTIFICATION PROCEDURES.
8. ALL MATERIALS SHALL BE UNDERWRITERS LABORATORIES APPROVED WITH LABELS ON CONDUCTORS @ 10'-0" INTERVALS AND LABELS ON ALL AIR TERMINALS.
9. LIGHTNING PROTECTION EQUIPMENT AND ALL MATERIALS SHOWN AND INTENDED FOR USE, SHALL BE AS MANUFACTURED BY THOMPSON LIGHTNING PROTECTION INC., 901 SIBLEY HWY. ST.PAUL, MN 55118 PHONE: 1-800-777-1230, FAX: 651-455-2545, OR APPROVED EQUIVALENT LIGHTNING PROTECTION EQUIPMENT MANUFACTURER.
10. GROUND RODS SHALL NOT BE SPACED LESS THAN ONE ROD LENGTH APART.



2 ROOF DETAIL
NTS

WORK SHOWN ON THIS SHEET IS FOR ADDITIVE ALTERNATE NO. 1

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

DATE	REVISION	BY

MT. VERNON AIRPORT
MT. VERNON, ILLINOIS
IL. PROJ.: MVN-3818 A.I.P. PROJ.: 3-17-0074-B18

Hanson Project No. 08A00030
Filename: E-102.DWG
Scale: 3/8"=1'-0"
Date: 06/18/08

LAYOUT	KNL	02/08/08
DRAWN	MV	02/06/08
REVIEWED	CAH	06/11/08

HANSON
Hanson Professional Services Inc.
1525 S. Lanphier Street
Springfield, Illinois 62703-3886
Offices Nationwide

REHABILITATE TAXIWAYS "C" AND "D"
INSTALL ELECTRICAL EQUIPMENT
LIGHTNING PROTECTION VAULT ROOF PLAN

22
22 of 30 sheets

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