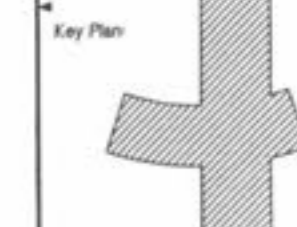




12/9/2002

RENAUD SPIRIT CENTER
 For the City of O'Fallon - Missouri



Scale: 1/16" = 1'-0"

Jacobs Project No: F040600

Drawing Title:
 ELECTRICAL ALTERNATE
 LIGHTNING PROTECTION PLAN

Date: DECEMBER 9, 2002

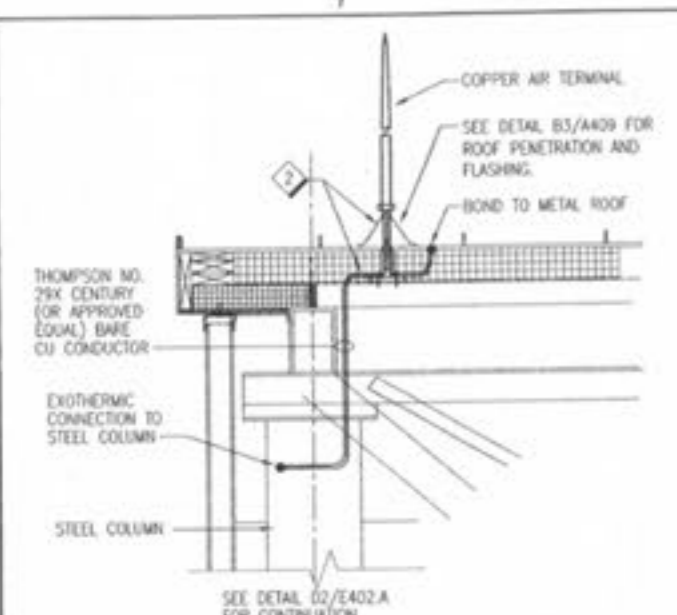
Designed By: HICKMAN Drawing No:

Drawn By: HICKMAN

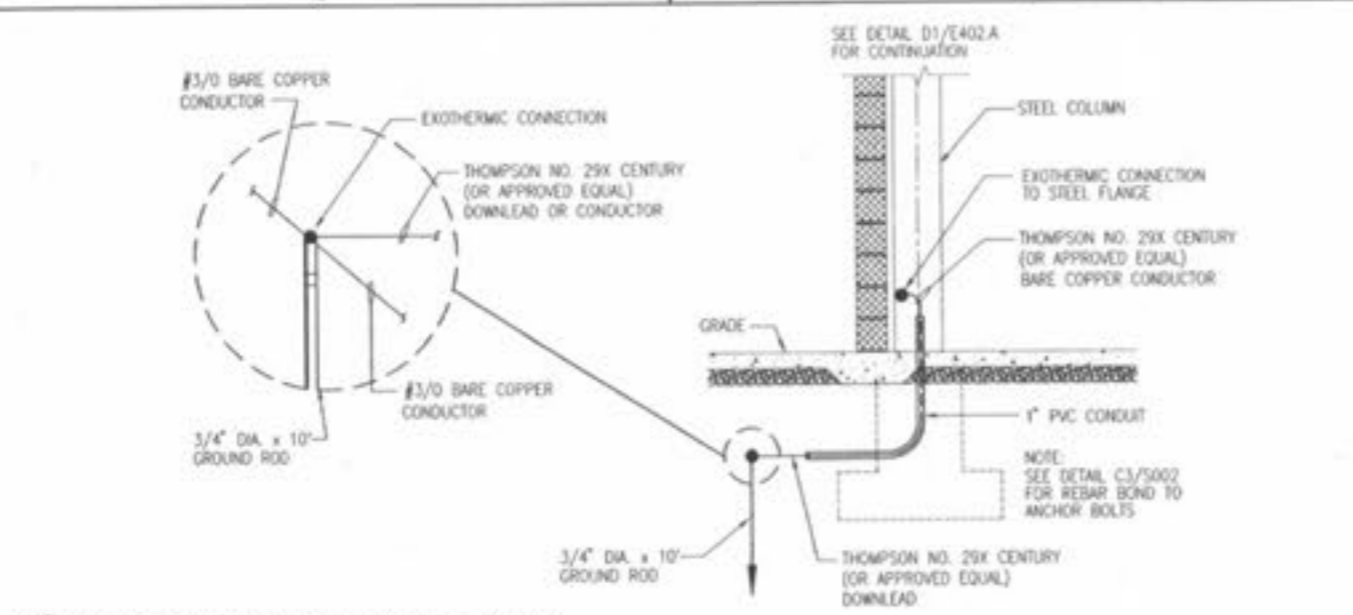
Checked By: ORSON E402.A

NOTES:

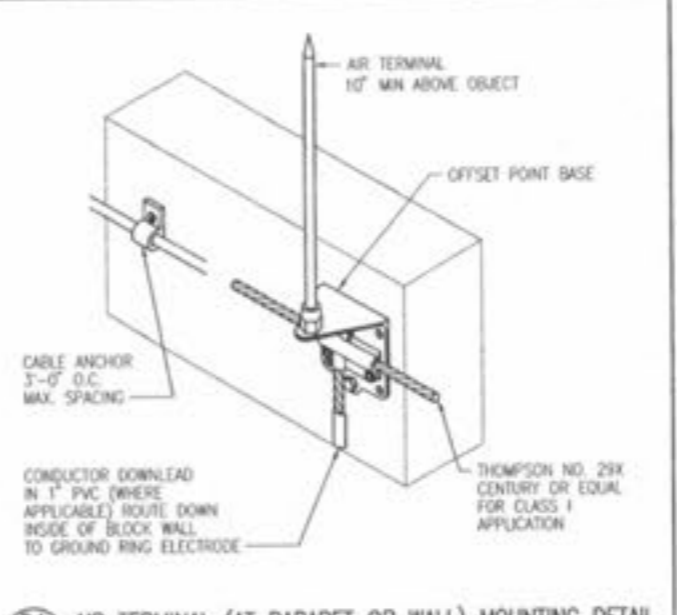
- FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING E001.
- DOWNLEAD CABLES TO STEEL COLUMNS FROM THE CABLE ROOF SYSTEM SHALL NOT BE BROUGHT DIRECTLY THROUGH THE ROOF. THRU-ROOF CONNECTORS WITH SOLID ROOF OR CONDUIT THROUGH APPROVED FLASHINGS SHALL BE UTILIZED FOR THIS PURPOSE. ALL FINAL FLASHING AND SEALING OF LIGHTNING PROTECTION SYSTEM ROOF PENETRATIONS SHALL BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR IN COMPLIANCE WITH THE ROOFING SYSTEM IN USE. REFER TO DETAIL B3 ON DRAWING A003.
- MAKE MAIN CONDUCTOR CONNECTIONS BETWEEN ROOF CONDUCTORS AND TOP OF BUILDING STRUCTURAL STEEL COLUMNS, WHERE SHOWN. COLUMNS WILL SERVE AS LIGHTNING PROTECTION SYSTEM DOWN CONDUCTORS. SEE DETAIL D1 ON THIS DRAWING.
- MAKE GROUND CONNECTIONS BETWEEN BASE OF BUILDING STRUCTURAL STEEL COLUMNS AND GROUND RING ELECTRODE, WHERE SHOWN. SEE DETAIL D2 ON THIS DRAWING.
- ALL CONDUCTORS FOR LIGHTNING PROTECTION SYSTEM ON HIGH ROOF SHALL BE CONCEALED BETWEEN TOP OF ROOF DECKING AND INSULATION.
- DOWNLEAD CABLES ON LOWER ROOFS SHALL BE ROUTED DOWN TO GROUND RING ELECTRODE VIA 1" PVC CONDUIT INSIDE OF BLOCK WALL. SEE DETAIL D4 ON THIS DRAWING.
- EXTENT OF ELECTRICAL WORK IS DEPICTED BY DASHED LINE. WORK SHOWN ON EITHER SIDE OF LINE IS UNDER INDICATED ALTERNATE.



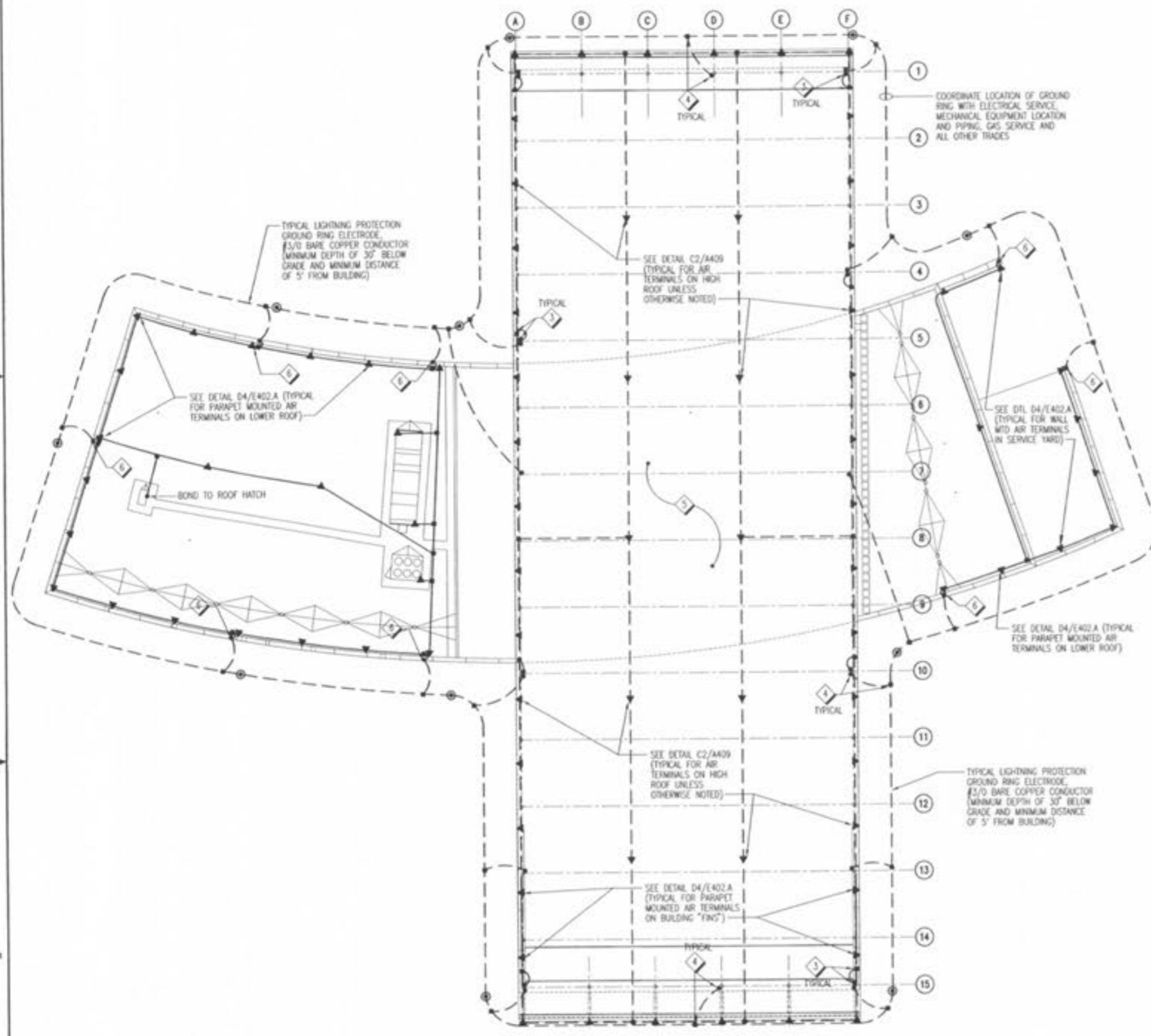
D1 DOWNLEAD CONNECTION AT TOP OF COLUMN
 E402.A NTS



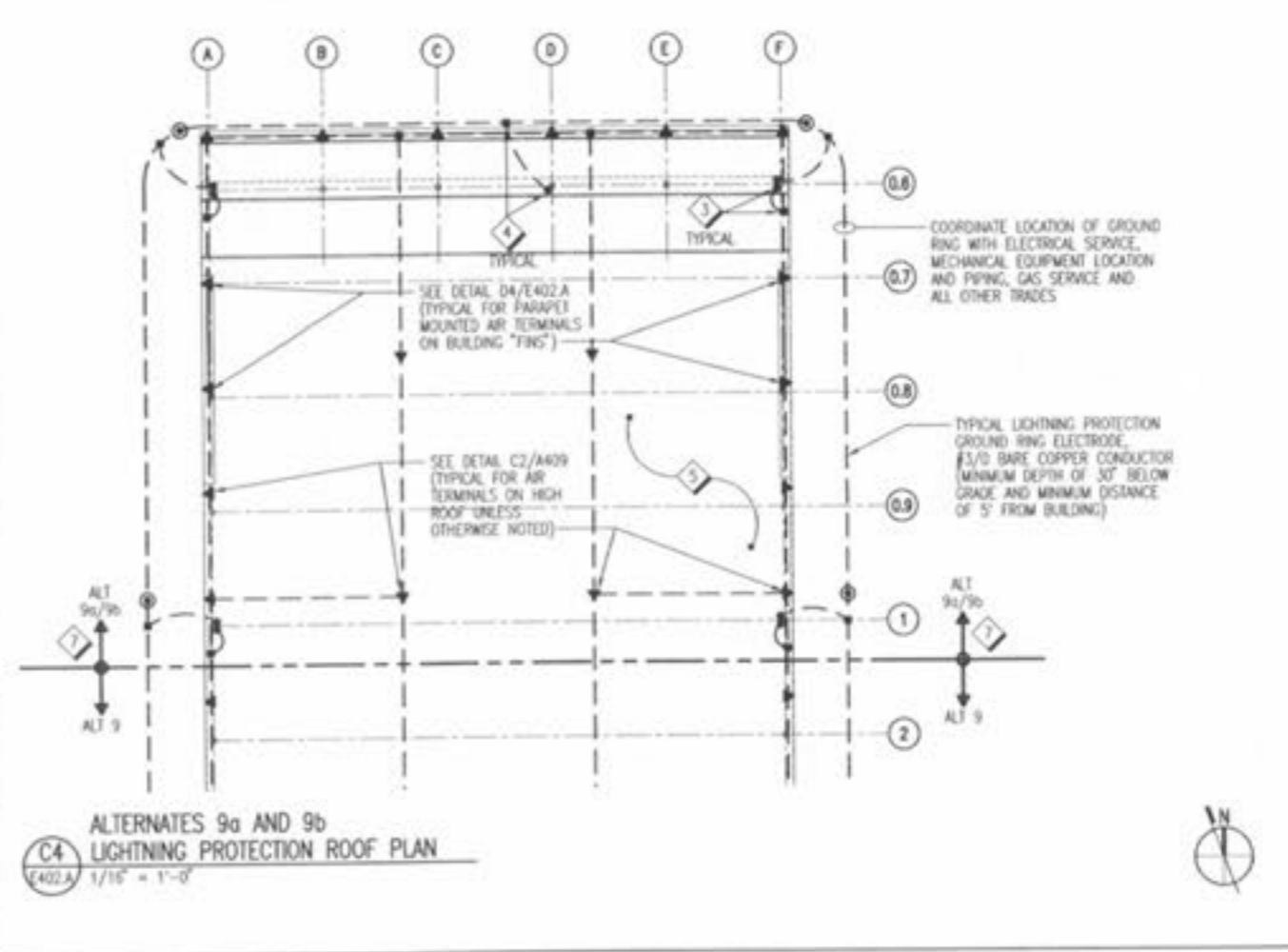
D2 DOWNLEAD CONNECTION AT BASE OF COLUMN
 E402.A NTS



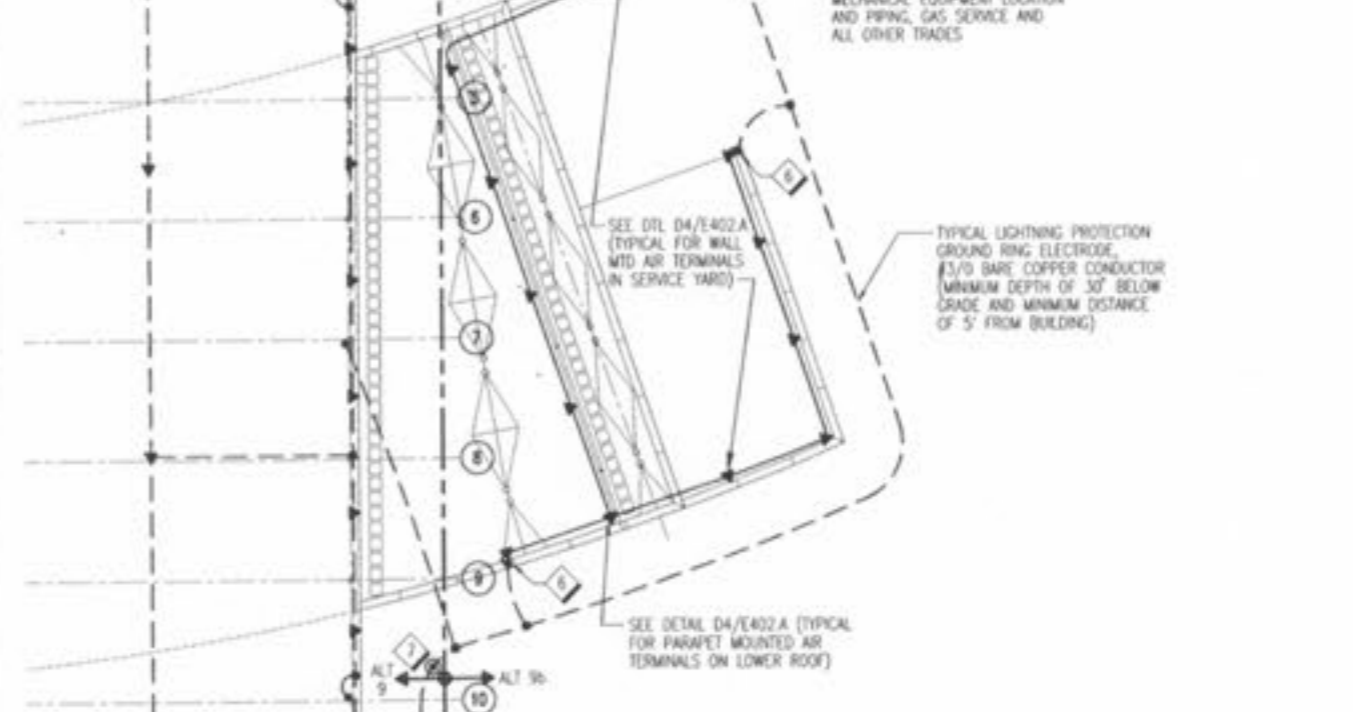
D4 AIR TERMINAL (AT PARAPET OR WALL) MOUNTING DETAIL
 E402.A NTS



ALTERNATE 9
 A1 LIGHTNING PROTECTION ROOF PLAN
 E402.A 1/16" = 1'-0"



ALTERNATES 9a AND 9b
 C4 LIGHTNING PROTECTION ROOF PLAN
 E402.A 1/16" = 1'-0"



ALTERNATE 9b
 A4 LIGHTNING PROTECTION ROOF PLAN
 E402.A 1/16" = 1'-0"