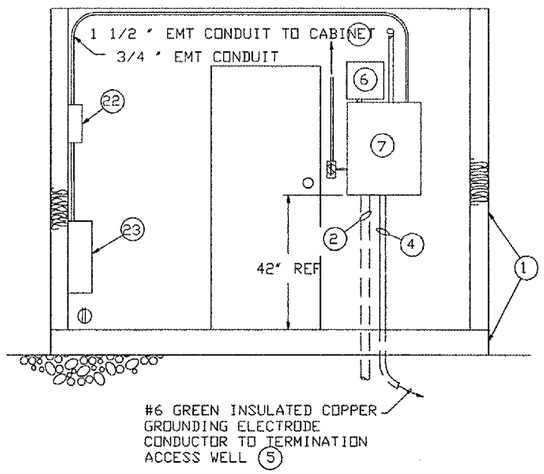
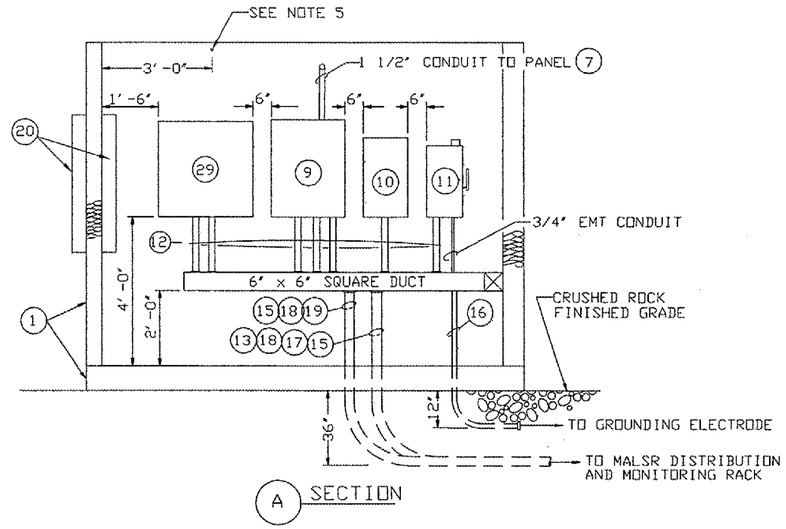
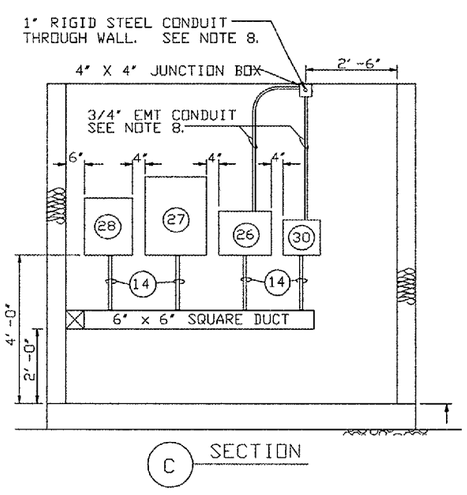
IMAGE FILES:



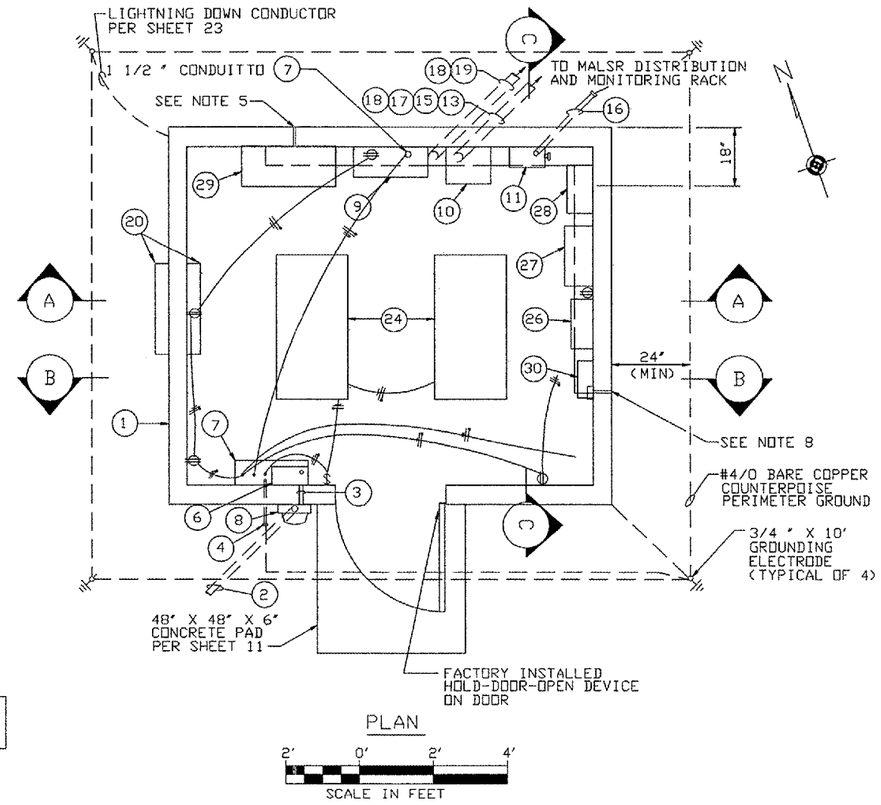
B SECTION



A SECTION



C SECTION



PLAN

2' 0' 2' 4'
SCALE IN FEET

SEE NEXT SHEET FOR NOTES

NOTE:

1. WHERE SPECIFIC MANUFACTURERS OF EQUIPMENT ARE GIVEN, THE CONTRACTOR MAY SUBMIT ALTERNATE EQUIPMENT EQUAL TO THAT PROPOSED FOR CONSIDERATION BY THE ENGINEER.

NUMBERED LEGEND:

(1) CONCRETE FOUNDATION AND 12' X 16' EQUIPMENT SHELTER PER DETAILS THIS SHEET AND SHEET 11.

(2) 2" GALVANIZED RIGID STEEL CONDUIT FROM UTILITY TRANSFORMER TO METER BASE (8). INSTALL 3-1/C#2 TYPE USE CABLES IN CONDUIT. SEE SHEET 10

(3) 2" GALVANIZED RIGID STEEL CONDUIT THROUGH WALL, WITH 3-1/C#2 TYPE U. S. E. POWER CABLES AND 1-#6 GREEN INSULATED GROUND, TO PANEL (7).

(4) 3/4" GALVANIZED RIGID STEEL CONDUIT PASSING THROUGH FOUNDATION WITH STANDARD ELBOW, AND TERMINATING 12" BELOW FINISHED GRADE WITH GROUNDING BUSHING. THROUGH THE CONDUIT, RUN #4 GREEN INSULATED COPPER GROUNDING ELECTRODE CONDUCTOR TO ACCESS WELL (5).

(5) NOT USED

(6) AC SURGE ARRESTER WITH SELF-CONTAINED DISCONNECT, PER PARAGRAPH 16A.16 OF SPECIFICATION FAA-GL-918B. THE SURGE ARRESTER SHALL BE INSTALLED DIRECTLY ABOVE PANELBOARD (7), WITH THE SHORTEST POSSIBLE 1" DIA. CONDUIT NIPPLE CARRYING 3-1/C#4 THWN CABLES AND 1-#6 GREEN INSULATED GROUND.

(7) SHELTER POWER DISTRIBUTION PANEL. SEE NOTE 1.

(8) METER BASE FURNISHED BY CONTRACTOR. CONTRACTOR SHALL INSTALL METER BASE AND CABLES FROM METER BASE TO TRANSFORMER. COMED SHALL FURNISH AND INSTALL THE METER.

(9) MALSR CONTROL CABINET, 30"H X 24"W X 8"D.

(10) 15 KVA MALS TRANSFORMER.

(11) MALS DISCONNECT SWITCH WITH LIGHTNING ARRESTER. SEE NOTE 1.

(12) SEVEN 2" EMT CONDUITS CARRYING CABLES SHOWN ON MALSR SYSTEM WIRING DIAGRAM AND EACH WITH A #6 COPPER GROUND. POWER AND CONTROL CABLES SHALL RUN IN SEPARATE CONDUITS.

(13) 3-1/C 2/0 TYPE U. S. E. MALS CABLES. FROM SWITCH (11) TO SPLICES IN SQUARE DUCT, CABLES ARE #8 STRANDED. FROM SPLICES TO MALS DISTRIBUTION AND MONITORING RACK, CABLES ARE #2/0. ALL CABLES RUN WITH ONE #6 BARE COPPER GROUNDING CONDUCTOR.

(14) 3/4 " EMT CONDUIT WITH RADIO CONTROL CABLES

(15) 1-#6 BARE COPPER GROUNDING CONDUCTOR.

(16) 1-#2 GREEN WITH YELLOW STRIPE GROUND FROM CABINET (9), 1-#6 BARE COPPER GROUND FROM E1 OF TRANSFORMER (10), AND 1-#4 GREEN INSULATED COPPER GROUND FROM SWITCH (11), DIRECTLY TO GROUNDING ELECTRODE, IN 1 1/2 " GALVANIZED RIGID STEEL CONDUIT WITH SWEEP ELBOW AND GROUNDING BUSHING TO 12" BELOW GRADE, AND ALSO CARRYING 1-#6 BARE COPPER GROUND TERMINATING AT BUSHING.

(17) 2-1/C #2, AND 1-1/C #8 TYPE USE CABLES TO RAIL FLASHERS.

(18) 3" GALVANIZED RIGID STEEL CONDUIT WITH SWEEP ELL.

(19) ONE 12 PR #19 RAIL FLASHER CONTROL CABLE

(20) WALL MOUNTED ENVIRONMENTAL CONTROL UNIT, 11,100 BTUH AIR CONDITIONER, 3.6KW HEATSTRIP, BARD CATALOG #WA121-A03EX4XXJ WITH SUPPLY AND RETURN GRILL AND 2-STAGE HEATING/COOLING THERMOSTAT.

(21) NOT USED

(22) NOT USED

(23) NOT USED

(24) LIGHT FIXTURE, FLUORESCENT, SURFACE MOUNT, 120V, PER PARAGRAPH 16A.17F OF SPECIFICATION FAA-GL-918B.

(25) NOT USED

(26) NOT USED

(27) NOT USED

(28) NOT USED

(29) NOT USED

(30) AIR-TO-GROUND RADIO RECEIVER/CONTROLLER, MODEL RC-1T5A.

K:\Freeport4p\0229408\Draw\Sheets\
FILE: 12-faadetails.dwg
LAYOUT: Model
UPDATE BY: clouden
SURVEY BOOK #
DATE: Fri 7/8/05 5:23pm
XREF DWG: clnfo.dwg
tb.dwg

REVISIONS

NUMBER	BY	DATE

0 1 2
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

FREEPORT - ALBERTUS AIRPORT
FREEPORT, ILLINOIS

ILLINOIS PROJECT, FEP-3132 / A.I.P. PROJECT: 3-17-0045-B16

MALSR SHELTER EQUIPMENT LAYOUT SHEET 1

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS

DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
DATE:	06/17/05
JOB No:	02294-08

SHEET 12 OF 34 SHEETS