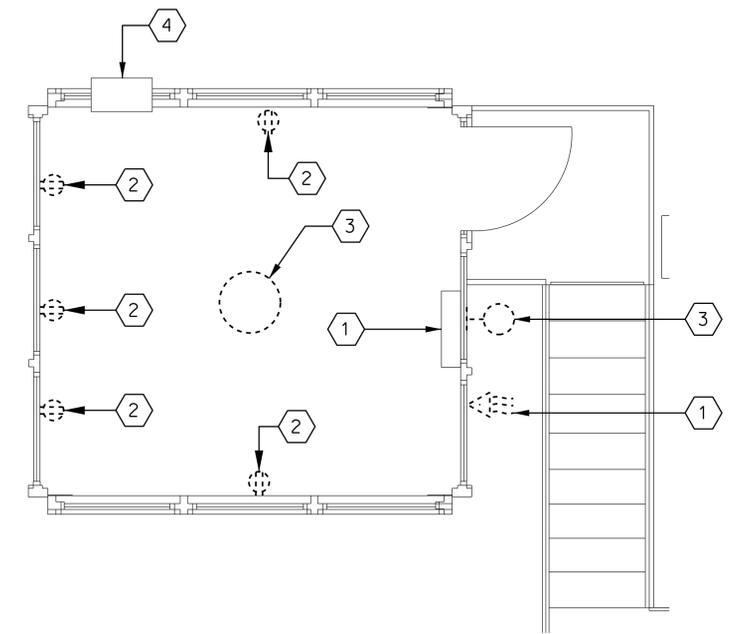


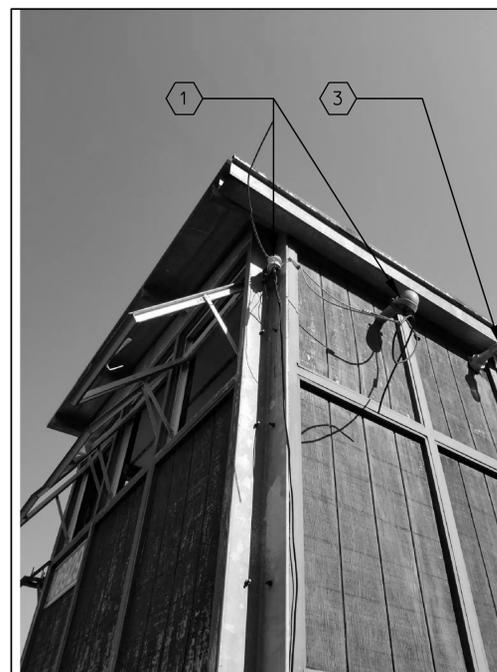
1 ELEVATION PLANS
E1 (ELECTRICAL DEMOLITION) NO SCALE



2 FLOOR PLAN
E1 (ELECTRICAL DEMOLITION) NO SCALE

SPECIAL ELECTRICAL KEYED NOTES:

- 1** COMPLETELY REMOVE EXISTING SINGLE-PHASE, 3-WIRE PANELBOARD FROM THE TOWER. IT INCLUDES REMOVING WEATHER-HEAD, PANELBOARD, WIRING, CONDUITS, AND ETC. FROM THE TOWER.
- 2** COMPLETELY REMOVE ALL EXISTING RECEPTACLE OUTLETS, CONDUITS, WIRING AND JUNCTION BOXES FROM THE TOWER.
- 3** COMPLETELY REMOVE ALL EXISTING INTERNAL AND EXTERNAL LIGHT FIXTURES, LIGHT SWITCHES, WIRING AND JUNCTION BOXES FROM THE TOWER.
- 4** COMPLETELY REMOVE EXISTING HVAC UNIT AND POWER SERVICE TO THE HVAC UNIT FROM THE TOWER. IT INCLUDES REMOVING WIRING, CONDUITS, PLUGS, RECEPTACLE OUTLETS, JUNCTION BOXES AND HVAC UNIT.



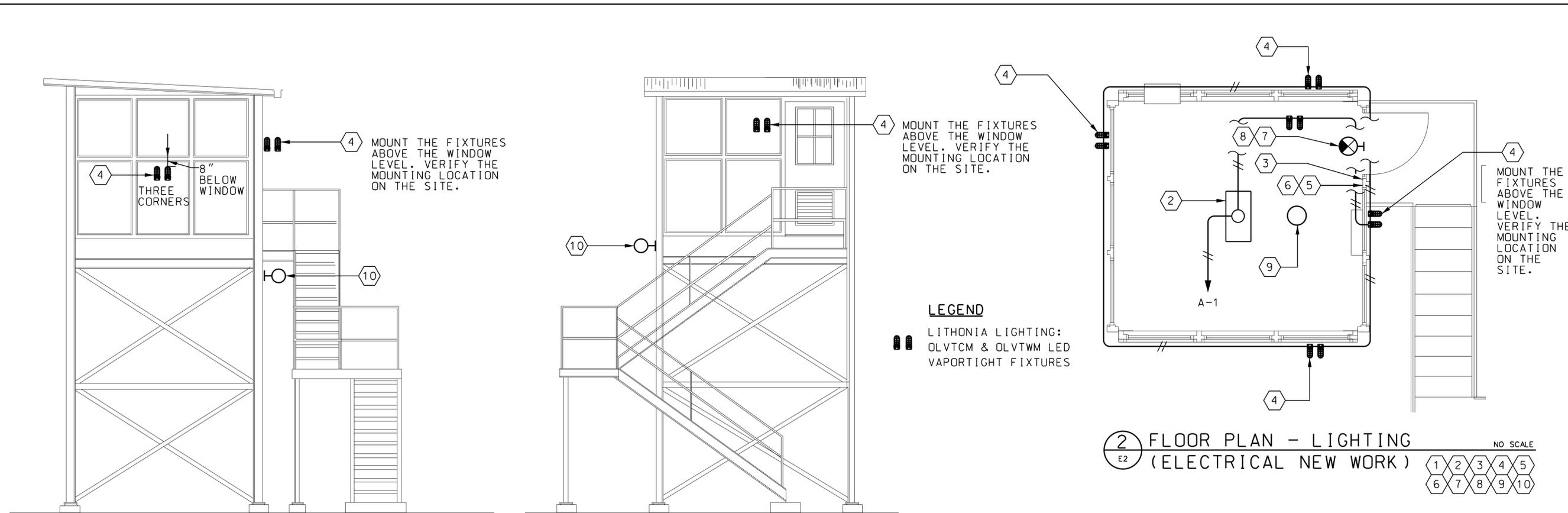
PHOTOGRAPH A



PHOTOGRAPH B

35% DESIGN
BID DOCUMENTS

ELECTRICAL DEMOLITION PLANS	
DIRECTORATE OF PUBLIC WORKS FORT BENNING, GEORGIA	
REPLACE RANGE TOWER CACTUS RANGE TOWER M6929 FORT BENNING, GEORGIA	
DRAWN BY K. CHAN	DRAWING NUMBER 44569-E1
APPROVED J.C. VANTLAND	SCALE NOTED DATE 18 OCT 25
L&E NO:	



1 ELEVATION PLANS - LIGHTING NO SCALE
E2 (ELECTRICAL NEW WORK)

35% DESIGN
BID DOCUMENTS

SPECIAL ELECTRICAL KEYED NOTES:

- 1 PROVIDE AND INSTALL LED LIGHT FIXTURES INSIDE THE CONTROL ROOM. THE DESIGN ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA). SEE NEW LIGHTING LAYOUT PLAN.
- 2 PROVIDE AND INSTALL A 2'x4' LED SURFACE MOUNT FIXTURE INSIDE THE CONTROL ROOM. USE OCCUPANCY SENSOR TO CONTROL THE LIGHT FIXTURE.
- 3 PROVIDE AND INSTALL OCCUPANCY SENSING WALL LIGHT SWITCH WITH MANUAL OVERRIDE TO CONTROL THE LED LIGHT FIXTURE. MOUNT THE SENSOR 48-INCH ABOVE THE FINISHED FLOOR.
- 4 PROVIDE AND INSTALL RED LAMPS (RED LIGHTS) AND STANDARD LAMPS (WHITE LIGHTS) IN THE EXTERIOR AROUND THREE CORNERS AND MOUNT THE FIXTURES 8-INCH BELOW THE WINDOW FRAMES.
- 5 PROVIDE AND INSTALL SEPARATE SWITCHES TO CONTROL THE RED LAMPS AND STANDARD LAMPS. CLEARLY LABEL THE LIGHT SWITCHES.
- 6 PROVIDE 3-WAY SWITCHES TO CONTROL ON AND OFF FOR THE EXTERIOR AND INTERIOR RED LAMPS AND STANDARD LAMPS. SEE SCOPE OF WORK FOR MORE DETAILS.

KEYED NOTES CONTINUATIONS:

- 7 PROVIDE AND INSTALL EMERGENCY AND EXIT LIGHTING IN ACCORDANCE WITH NFPA 101 AND NFPA 70 INSIDE THE CONTROL ROOM OF THE TOWER.
- 8 PROVIDE AND INSTALL LITHONIA LIGHTING: LHOM LED EXIT SIGN FIXTURE WITH TWO LED LAMP HAEDS AND WITH SELF DIAGNOSTICS CAPABILITY.
- 9 PROVIDE AND INSTALL A SINGLE STATION SMOKE DETECTOR IN THE CONTROL ROOM OF THE TOWER.
- 10 PROVIDE AND INSTALL A SURFACE MOUNT FLOOD LIGHT WITH PHOTO CELL AND MOTION SENSOR. MOUNT THE LIGHT FIXTURE AS INDICATED ON THE DRAWING.



PHOTOGRAPH A



PHOTOGRAPH B

FIXTURE SCHEDULE			
TYPE	LAMP	MOUNTING	
A	LED	SURFACE	LITHONIA LIGHTING CAT# EPANL 2X4 4800LM 80CRI 40K MIN1 MVOLT E10WCP WITH 2X4SMKSH (2'X4' SURFACE MOUNT KIT)
			PROVIDES A FULLY LUMINOUS APPEARANCE ACROSS THE FACE OF THE LENS. PROVIDES A SOFT, GLARE FREE SOLUTION THAT IS VISUALLY COMFORTABLE WITHIN THE SPACE.

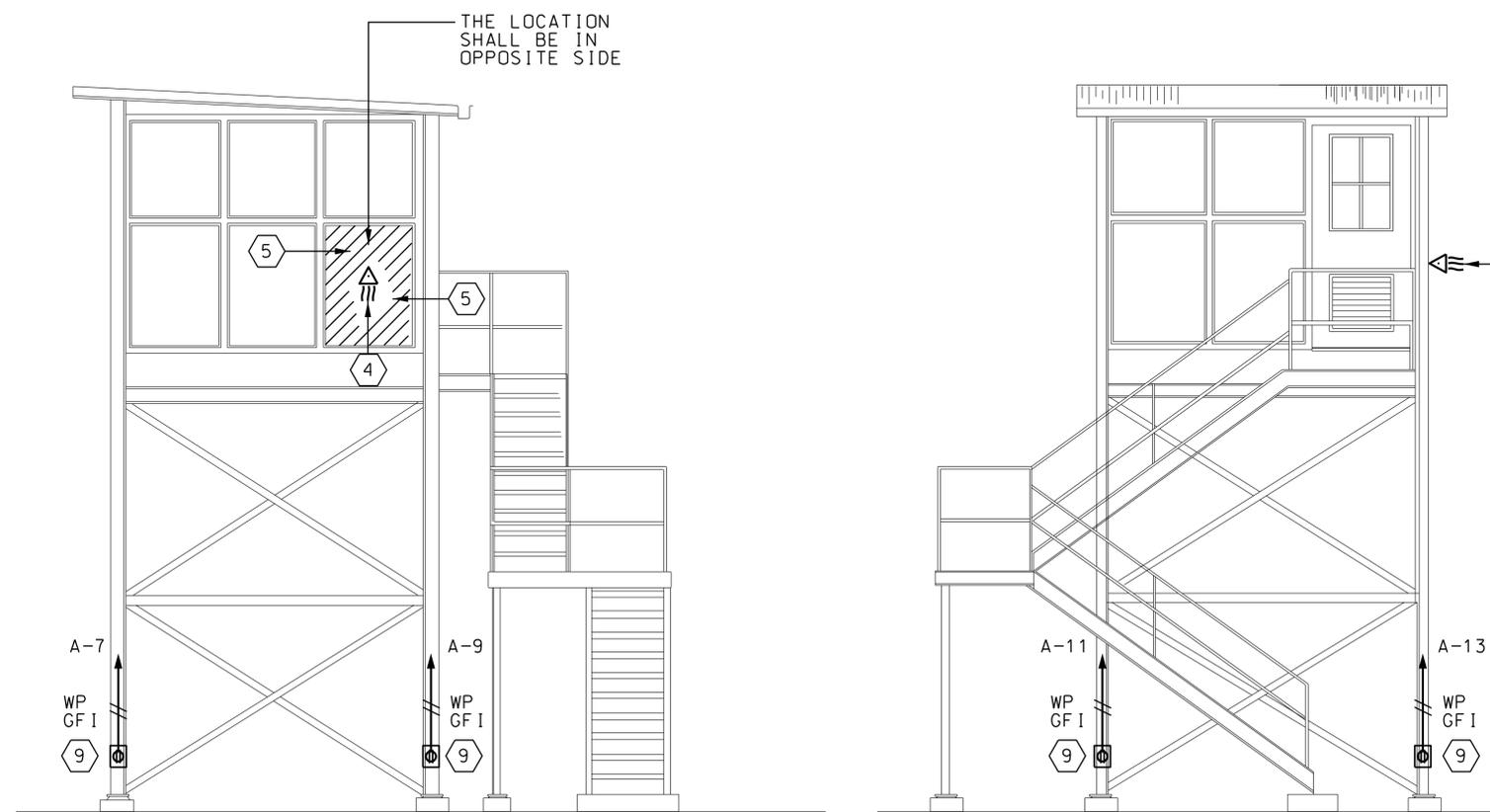
NOTE.
THE MENTION OF A MANUFACTURER'S PRODUCT BY NAME AND PART NUMBER IN THE LUMINAIRE SCHEDULE IS NOT INTENDED TO CLOSE THAT SPECIFICATION, BUT RATHER IT IS INTENDED TO ESTABLISH A MINIMUM LEVEL OF PRODUCT QUALITY AND OPERATION.

ELECTRICAL NEW WORK PLANS - LIGHTING

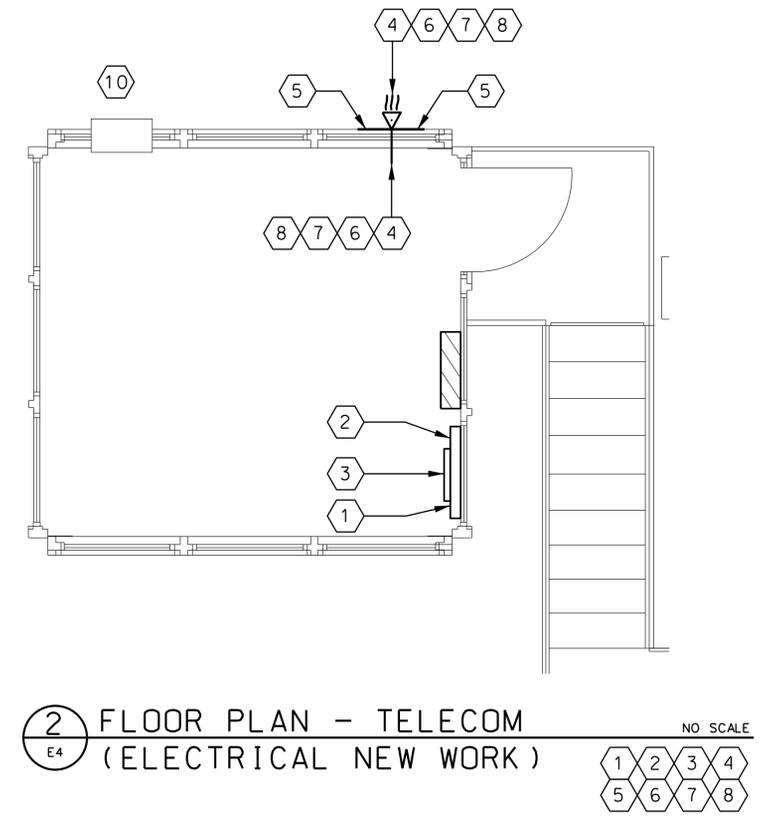
**DIRECTORATE
OF PUBLIC WORKS
FORT BENNING, GEORGIA**

REPLACE RANGE TOWER
CACTUS RANGE TOWER M6929
FORT BENNING, GEORGIA

DRAWN BY K. CHAN	DRAWING NUMBER 44569-E2	SCALE NOTED
APPROVED J.C. VANTLAND	L&E NO:	DATE 18 OCT 25



1 ELEVATION PLANS - TELECOM
 (ELECTRICAL NEW WORK) NO SCALE



2 FLOOR PLAN - TELECOM
 (ELECTRICAL NEW WORK) NO SCALE

SPECIAL ELECTRICAL KEYED NOTES:

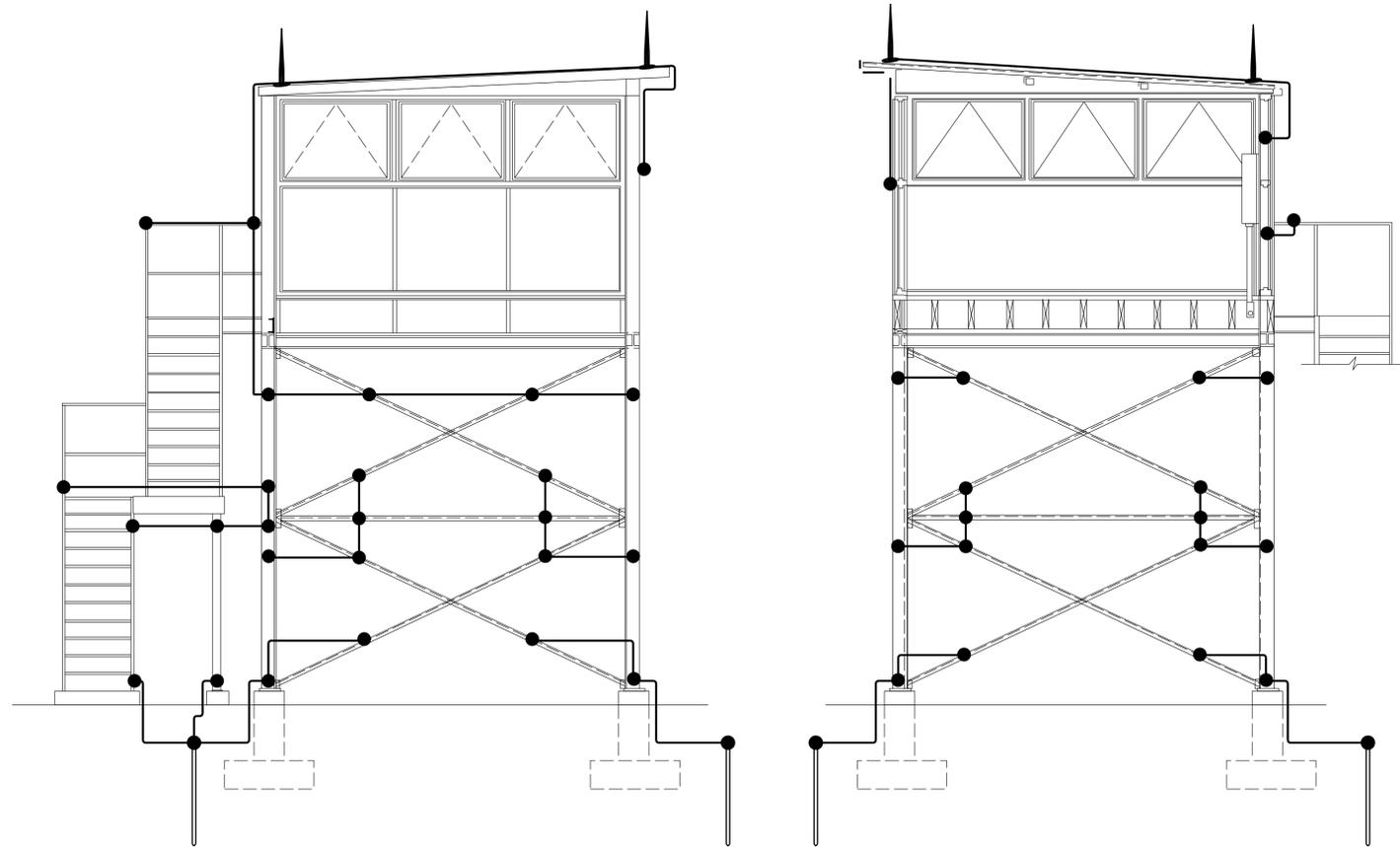
- 1 PROVIDE AND INSTALL A 2'x6' TELECOM BACKBOARD AS INDICATED ON THE DRAWING.
- 2 PROVIDE AND INSTALL APPROXIMATELY 2'x6' (FIELD VERIFY THE ACTUAL SIZE) TELECOM BACKBOARD AS INDICATED ON THE DRAWING. THE BACKBOARD SHALL BE 3/4-INCH A-C PLYWOOD. THE PLYWOOD MUST BE EITHER FIRE RETARDANT OR HAVE 2 COATS OF FIRE-RETARDANT PAINT ON THE SIDE THE EQUIPEMNT WILL BE MOUNTED ON. PLYWOOD SHALL BE PAINTED PRIOR TO INSTALLATION OF ANY EQUIPMENT.
- 3 PROVIDE AND INSTALL A MAIN GROUND BAR (TMGB) ON A TELECOM BACKBOARD. MOUNT THE INSULATED BUSBAR TO THE WALL, BOND IT TO THE BUILDING'S GROUNDING SYSTEM (FOR FUTURE ANTENNA USE).
- 4 PROVIDE AND INSTALL A 4-INCH RIGID CONDUIT WITH WEATHERHEAD AT THE CORNERS OF THE TOWER. REINFORCE THE FASCIA TO ALLOW ANTENNA MOUNTING.
- 5 TO PERFORM REINFORCING THE STRUCTURE INTEGRITY OF A FASCIA BOARD BY REPAIRING IT OR REPLACING IT, OR STRENGTHENING THE FASCIA TO ALLOW ANTENNA MOUNTING.

KEYED NOTES CONTINUATION:

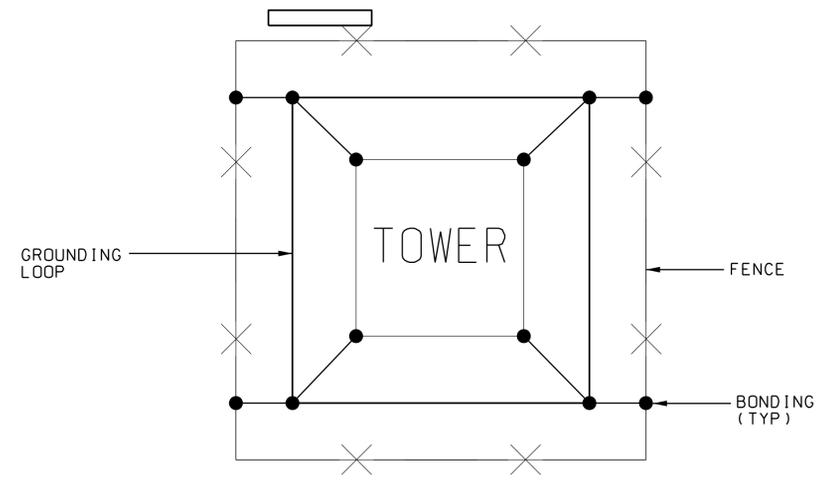
- 6 INSTALL THE WEATHERHEAD AND 4-INCH CONDUIT. SEE SCOPE OF WORK FOR MORE DETAILS.
- 7 PROVIDE AND INSTALL A 4-INCH (RIGID AND RSG) CONDUITS WITH WEATHER HEAD AT THE CORNER OF THE TOWER AS INDICATED IN THE DRAWING. REINFORCE THE FASCIA TO ALLOW ANTENNA MOUNTING.
- 8 PROVIDE AND INSTALL A STEEL STRUCTURAL SUPPORT FOR THE ANTENNA MOUNTING. INSTALL A WEATHER HEAD NEXT TO THE MOUNTING SUPPORT FOR AN ANTENNA.
- 9 PROVIDE AND INSTALL FOUR (4) 120V, GFI, WEATHERPROOF DUPLEX RECEPTACLES (DEDICATED CIRCUITS) WITH WEATHERPROOF ENCLOSURES AS INDICATED IN THE DRAWING. MOUNT THE RECEPTACLES 36-INCH ABOVE THE FINISHED FLOOR.
- 10 PROVIDE AND INSTALL THE STEEL STRUCTURAL SUPPORT FOR THE PTAC UNIT AT THAT SAME LOCATION.

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ELECTRICAL NEW WORK PLANS - TELECOM			
DIRECTORATE OF PUBLIC WORKS FORT BENNING, GEORGIA			
REPLACE RANGE TOWER CACTUS RANGE TOWER M6929 FORT BENNING, GEORGIA			
BY	DATE	REVISIONS	
DRAWN BY K. CHAN	DRAWING NUMBER 44569-E4	SCALE NOTED	
APPROVED J.C. VANTLAND	L&E NO:	DATE 18 OCT 25	



1 LIGHTNING PROTECTION PLAN I
E5 NO SCALE



2 LIGHTNING PROTECTION PLAN II
E5 NO SCALE

LIGHTNING PROTECTION SCOPE OF WORKS:

1. PROVIDE AND INSTALL AIR TERMINAL ON THE ROOF. CONNECT THE PRIMARY (ROOF) CONDUCTOR TO THE AIR TERMINAL, AND SECURE THEM ON THE ROOF WITH CABLE SUPPORT AND CONNECTOR.
2. ALL LIGHTNING PROTECTION DEVICES WILL BE IN ACCORDANCE WITH UL 96A AND NFPA 780.
3. PROVIDE ROOF PENETRATION IF NECESSARY AND APPLY ADEQUATE WATERPROOFING AND CAULKING AROUND PENETRATED AREA.
4. THRU ROOF FLASHING SHALL BE COPPER WITH 8-INCH ROUND BASE AND VERTICAL TUBE WITH NEOPRENE SEAL.
5. PROVIDE AND INSTALL DOWNCONDUCTORS OUTSIDE OF THE STRUCTURE.
6. ALL LIGHTNING PROTECTION MATERIALS AND COMPONENTS SHALL COMPLY WITH UL 96A AND NFPA 780 MATERIAL CODE REQUIREMENTS.
7. ALL METAL SHALL BE COPPER, BRONZE, OR STAINLESS STEEL.
8. ALUMINUM COMPONENTS SHALL BE USED IN LOCATIONS WHERE SYSTEM COMPONENTS ARE MOUNTED TO ALUMINUM SURFACES TO AVOID GALVANIC CORROSION OF DISSIMILAR METALS.
9. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED AT INTERVALS NOT TO EXCEED 3'-0" O.C.
10. ALL LIGHTNING PROTECTION CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS TO FORM A TWO WAY PATH TO GROUND.

11. NO CONDUCTOR SHALL FORM AN ANGLE THAT EXCEEDS 90 DEGRESS, NOR HAVE A RADIUS OF BEND LESS THAN 8-INCHES.
12. ALL CONDUCTORS (PRIMARY AND SECONDARY) SHALL NOT BE PAINTED.
13. CONNECTOR BONDING BELOW GRADE SHALL BE EXOTHERMIC WELD TYPE.
14. GROUNDING WILL CONFORM TO UL96A, EXCEPT AS REQUIRED BY THE USING AGENCY.
15. COUNTERPOISE WILL EXTEND 10' BEYOND BUILDING PERIMETER AND GROUND ROD WILL BE AT LEAST 3/4" X 10'-0" LONG. SEE DETAIL 4, THIS SHEET.
16. ALL METAL EQUIPMENT ON THE ROOF SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM USING SECONDARY CONDUCTOR.
17. REFER TO THIS PROJECT SCOPE OF WORK FOR MORE WORK ON THE AIR TERMINALS LIGHTNING PROTECTION SYSTEM REQUIREMENTS FOR THE C2 FACILITIES.

LIGHTNING PROTECTION NOTES:

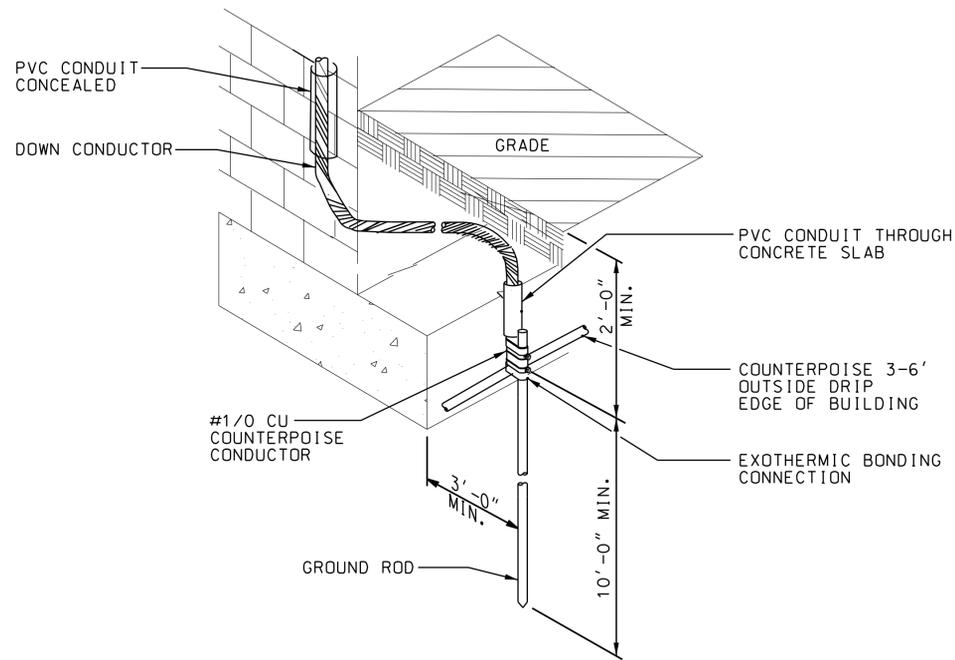
1. CONTRACTOR SHALL DESIGN THE LIGHTNING PROTECTION SYSTEM.
2. THE LIGHTNING PROTECTION SYSTEM (LPS) SHALL BE INSTALLED IN ACCORDANCE WITH UL 96A.
3. PROVIDE AND INSTALL TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS) OR SURGE PROTECTIVE DEVICE SUITABLE FOR ELECTRICAL SERVICE ENTRANCE ON LIGHTNING PROTECTION APPLICATIONS.

LEGEND

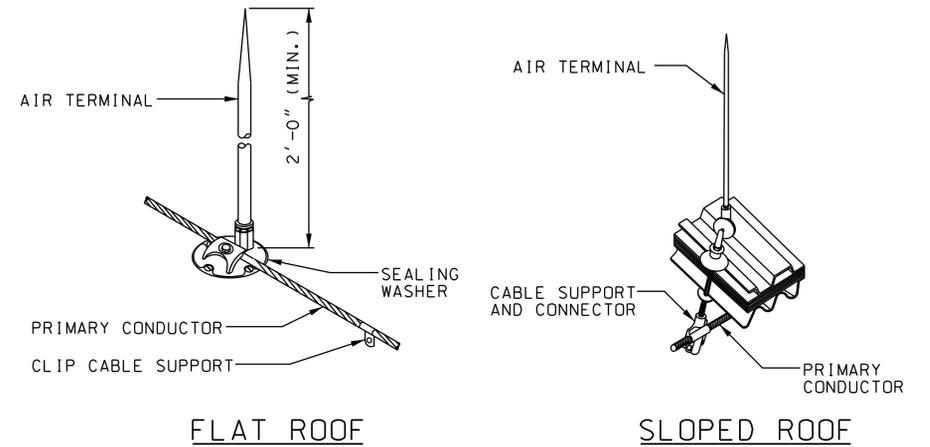
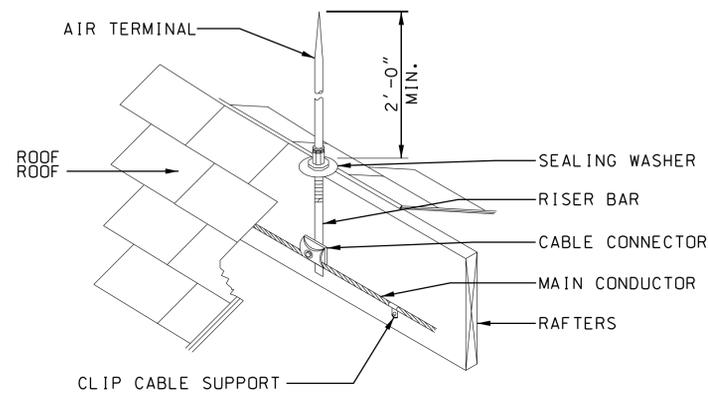
- ⊕ 24-INCHES AIR TREMINAL
- BONDING
- CONDUCTOR
- ⊕ GROUNDING ROD

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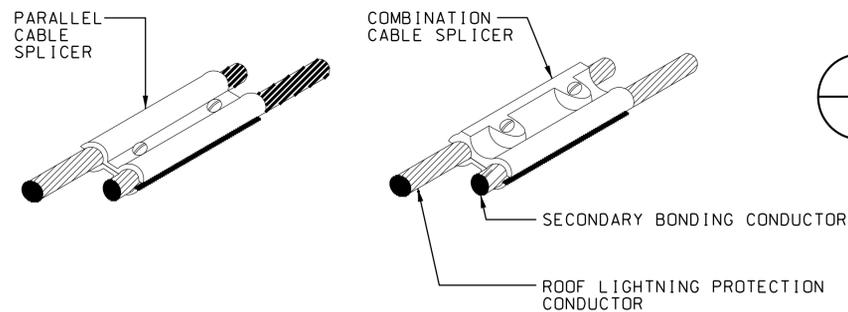
LIGHTNING PROTECTION PLANS			
DIRECTORATE OF PUBLIC WORKS FORT BENNING, GEORGIA			
REPLACE RANGE TOWER CACTUS RANGE TOWER M6929 FORT BENNING, GEORGIA			
DRAWN BY K. CHAN	DRAWING NUMBER 44569-E5	SCALE NOTED	
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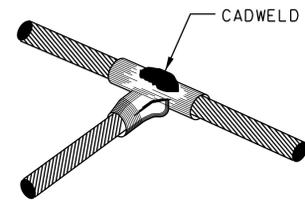
1 GROUNDING DETAIL NO SCALE
E6



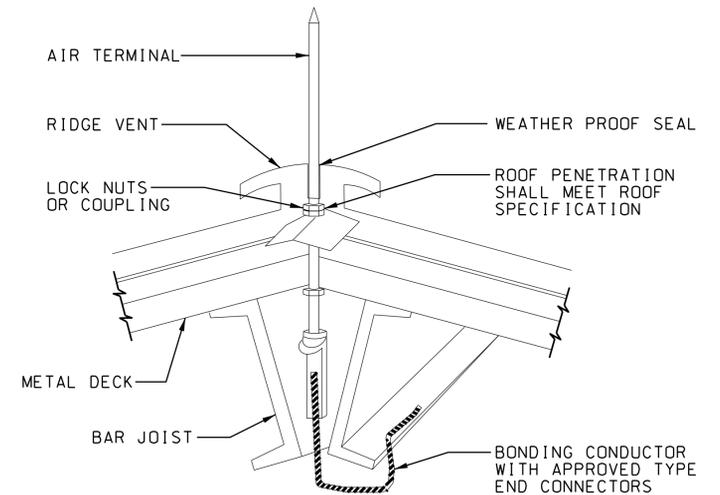
2 AIR TERMINAL DETAILS NO SCALE
E6



3 CABLE SPLICERS DETAIL NO SCALE
E6

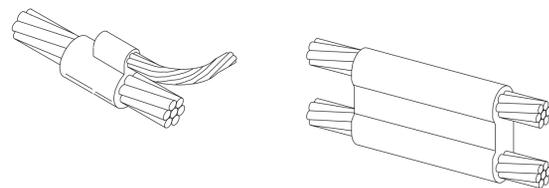


4 TEE-SPLICER CONNECTOR DETAIL NO SCALE
E6

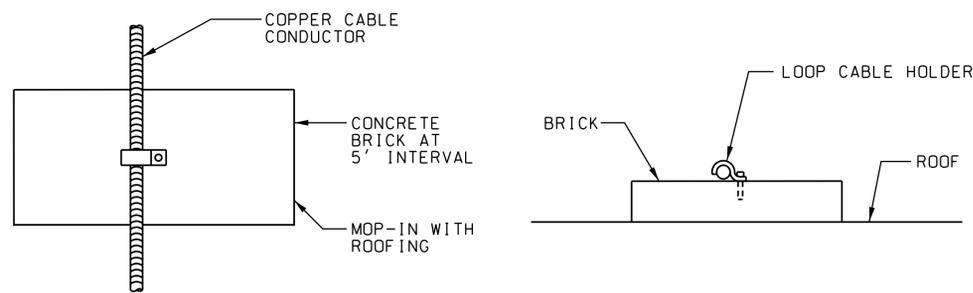


5 TYPICAL MOUNTING OF TERMINALS THROUGH ROOF RIDGE VENT NO SCALE
E6

35% DESIGN BID DOCUMENTS



6 EXOTHERMIC BOND DETAIL NO SCALE
E6



7 SUPPORT DETAILS NO SCALE
E6

LIGHTNING PROTECTION DETAILS			
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REPLACE RANGE TOWER CACTUS RANGE TOWER M6929 FORT BENNING, GEORGIA			
DRAWN BY K. CHAN	DRAWING NUMBER 44569-E6	SCALE NOTED	DATE 18 OCT 25
APPROVED J.C. VANTLAND	L&E NO.		