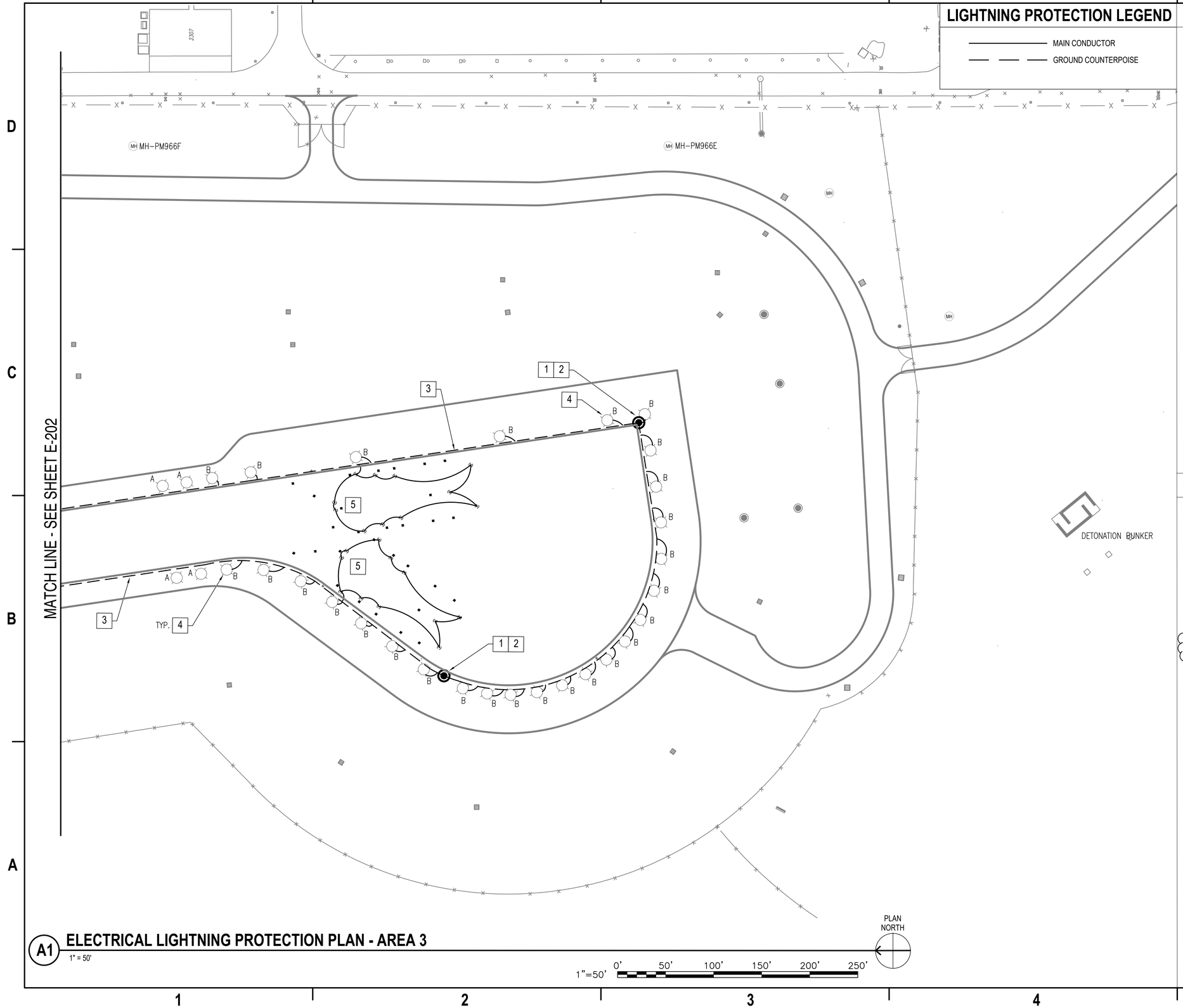


A1 ELECTRICAL LIGHTNING PROTECTION PLAN - AREA 3

1" = 50'

LIGHTNING PROTECTION LEGEND

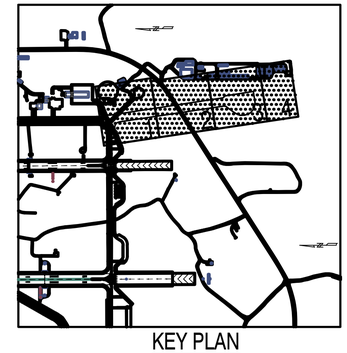
- MAIN CONDUCTOR
- GROUND COUNTERPOISE

GENERAL NOTES

1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT REPRESENT ALL UNDERGROUND UTILITIES OR SERVICE LINES. SOURCE OF EXISTING UTILITY MAPPING: UTILITY LOCATIONS ARE BASED ON QUALITY LEVEL "B" AS DEFINED BY ASCE STANDARD 38-02 "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA". VERIFY EXACT LOCATION, DEPTH, SIZE, AND TYPE OF UTILITIES SHOWN AND NOTIFYING ENGINEER OF DISCREPANCIES. REPAIR AND REPATCH AS NEEDED SUBSEQUENT TO ANY DAMAGE SUSTAINED TO PROPERTY OR UTILITIES.
2. CONTACT "MARYLAND MISS UTILITY" AT 1-800-257-7777 PRIOR TO BEGINNING ANY EXCAVATION OR DEMOLITION.
3. ENSURE THAT MATERIALS USED ARE COMPATIBLE WITH THE AIRFIELD AND DOES NOT CAUSE DAMAGE TO THE AIRFIELD. DO NOT USE DISSIMILAR METALS.
4. ENSURE ALL LIGHTNING PROTECTION CONDUCTORS HAVE A MINIMUM BEND RADIUS OF 8". PROVIDE APPROPRIATE EXOTHERMIC CONNECTION WHEN RADIUS IS LESS THAN 8".
5. GROUND ALL SITE EQUIPMENT IN ACCORDANCE WITH MIL-HDBK-419A, NEC AND APPLICABLE UFC CRITERIA.
6. ENSURE ALL BONDING AND GROUNDING CONNECTIONS ARE EXOTHERMIC TYPE, UON. SEE DETAILS.

WORK NOTES

1. ADD ADDITIONAL GROUND RODS AS REQUIRED FOR LIGHTNING PROTECTION DOWN CONDUCTORS PER LIGHTNING PROTECTION CONTRACTOR'S DESIGN.
2. BOND LIGHTNING COUNTERPOISE CONDUCTOR TO GROUNDING ELECTRODES AT INTERVALS NOT EXCEEDING 2000 FEET.
3. PROVIDE BARE COPPER #4 AWG GROUND COUNTERPOISE AT MINIMUM OF 8" BFG AND NO MORE THAN 12" ABOVE CIRCUIT CABLING. PROVIDE COUNTERPOISE HALFWAY BETWEEN AIRFIELD LIGHTING DUCTBANK AND EDGE OF TAXIWAY.
4. BOND LIGHTNING COUNTERPOISE CONDUCTOR TO EACH IN-PAVEMENT (FLUSH) 'TYPE B' METALLIC LIGHT FIXTURE REINFORCEMENT CAGE, MOUNTING STAKE AND METALLIC AIRFIELD LIGHTING COMPONENT.
5. PROVIDE STATIC GROUNDING. SEE CIVIL SHEETS FOR DETAIL.



KEY PLAN

SYM	DESCRIPTION	DATE	APPR
1	AMENDMENT 005	04/15/2023	
0	ISSUE FOR CONSTRUCTION	9/26/2022	

NAVFAC

COMMONWEALTH OF VIRGINIA
JIMMY CLARK HIGGINS
Lic. No. 0402057076
9/26/2022
PROFESSIONAL ENGINEER
SEAL

Wiley|Wilson | BURNS McDONNELL
JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES JCH DRW JCH CHK PO
PMDM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
WASHINGTON NAVY YARD
NAVAL FACILITIES ENGINEERING COMMAND – WASHINGTON
WASHINGTON, DC
JOINT BASE ANDREWS NAVAL AIR FACILITY
CAMP SPRINGS, MD
P-3002 RELOCATE HAZARDOUS CARGO PAD AND EOD PROFICIENCY RANGE
LIGHTNING PROTECTION PLAN - AREA 3

SCALE: AS NOTED
EPROJECT NO.: 1396650
CONSTR. CONTR. NO. N40080-15-D-0452
NAVFAC DRAWING NO. 13132530
SHEET 185 OF 212

E-203

DRAWFORM REVISION: 06 APRIL 2017