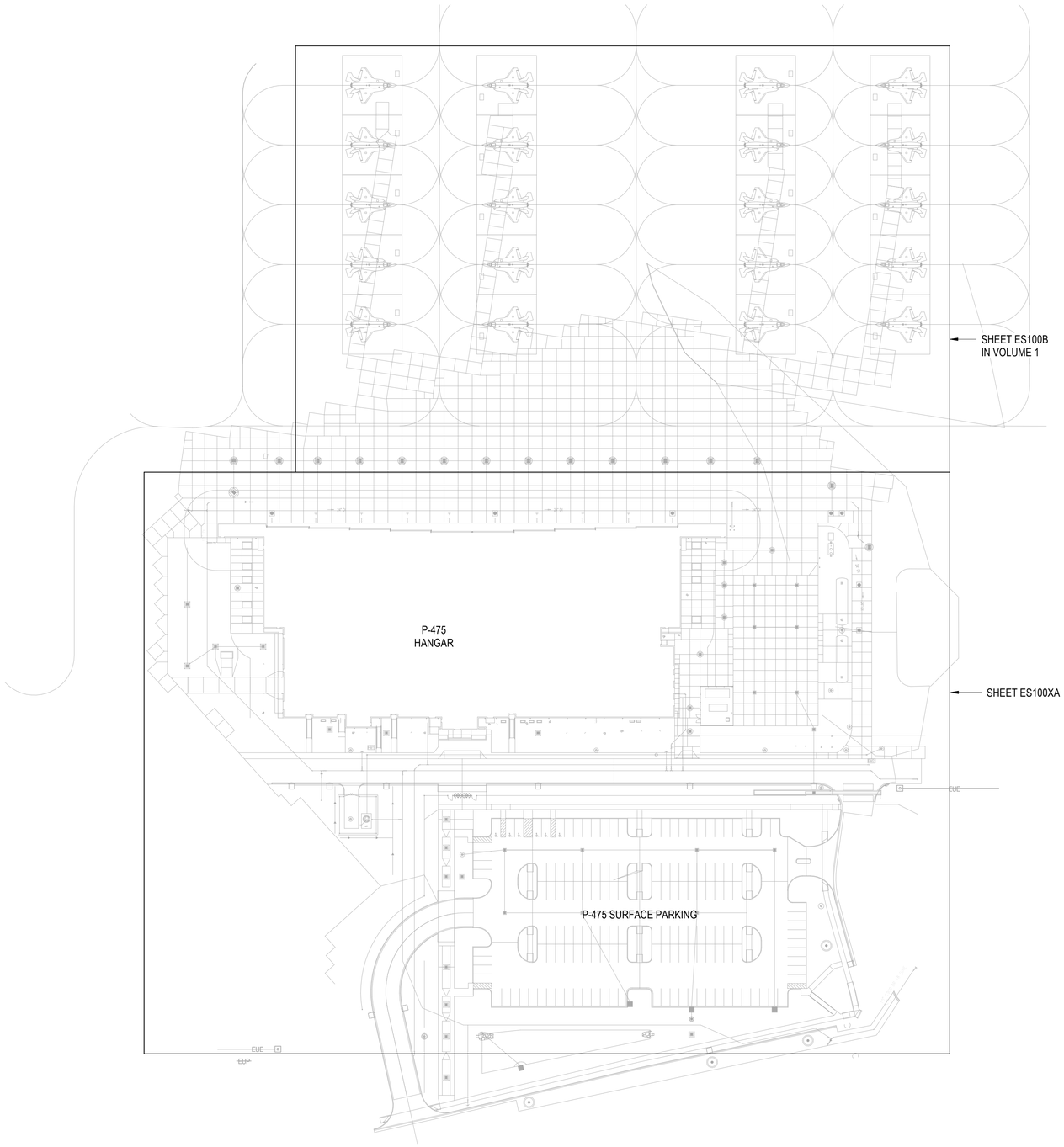

DUCT BANK FEEDER CONDUCTOR SCHEDULE

CABLE DESIGNATION	CABLE DESCRIPTION
1	(3)1/C, 15KV, MV-105, 133% EPR, #4/0 CABLE + (1)1/C #2 600V GROUND (ALUMINUM)
2	NOT USED.
3	NOT USED.
4	(4) #600 KCMIL (ALUMINUM)
5	NOT USED.
6	NOT USED.
7	(4) #500 KCMIL + (1) #3/0 GND. (ALUMINUM). CONDUCTORS HAVE BEEN UPSIZED DUE TO VOLTAGE DROP.
8	NOT USED.
9	(3)1/C, 15KV, MV-105, 133% EPR, #1 CABLE + (1)1/C #2 600V GROUND (COPPER)

DUCT BANK CONFIGURATION SCHEDULE

DUCT BANK DESIGNATION	DUCT BANK CONFIGURATION	DUCT BANK DETAIL	STEEL REINFORCED DUCTBANK
P-1	5" 2-WAY	C2/ES503	YES
P-2	5" 2-WAY	A2/ES503	NO
P-3	5" 4-WAY	C4/ES504	YES
P-4	5" 4-WAY	A4/ES504	NO
P-5	5" 2-WAY	A2/ES504	NO
P-6	-	-	-
P-7	5" 2-WAY	A2/ES503	NO
P-8	5" 2-WAY	C2/ES503	YES
P-9	5" 2-WAY	C2/ES503	YES
P-10	5" 2-WAY	C2/ES503	YES
S-1	4" 8-WAY	A3ES507	YES
S-2	4" 8-WAY	A2/ES505	NO
S-3	-	-	-
S-4	-	-	-
S-5	-	-	-
S-6	-	-	-
S-7	4" 4-WAY	C4/ES504	YES
F-1	4" 12-WAY	A1/ES501	YES
F-2	4" 12-WAY	A1/ES501	YES
F-3	4" 4-WAY	C4/ES504	YES
F-4	4" 4-WAY	C4/ES504	YES
F-5	4" 4-WAY	C4/ES504	YES
F-6	4" 6-WAY	C2/ES504	YES
F-7	4" 4-WAY	C4/ES504	YES
F-8	4" 4-WAY	C4/ES504	YES
F-9	4" 4-WAY	C4/ES504	YES

PLAN NORTH

0 50' 100' 150' 200' 250'

1/64" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

A1 OVERALL SITE PLAN - ELECTRICAL
1/64" = 1'-0"

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	

NAVFAC

NICHOLAS G. ZUBRZYCKI
LICENSE
No 64299
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
SEAL

BAMFORTH
ENGINEERS • CONTRACTORS
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
Approved by J. Scott Roberts;
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	RLW	DRW	RLW	CHK	KLM
PM/DM	KTB / RLH				
BRANCH MANAGER	JAS				
CHIEF ENG/ARCH	EJA				
FP ENGINEER	DSN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE:
MCAS BEAUFORT
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NORFOLK, VA
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS
ELECTRICAL SITE PLAN - OVERALL

SCALE: As indicated
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.: 12871501
SHEET 1406 OF 1412

ES100X

DRAWFORM REVISION: 25 AUGUST 2020

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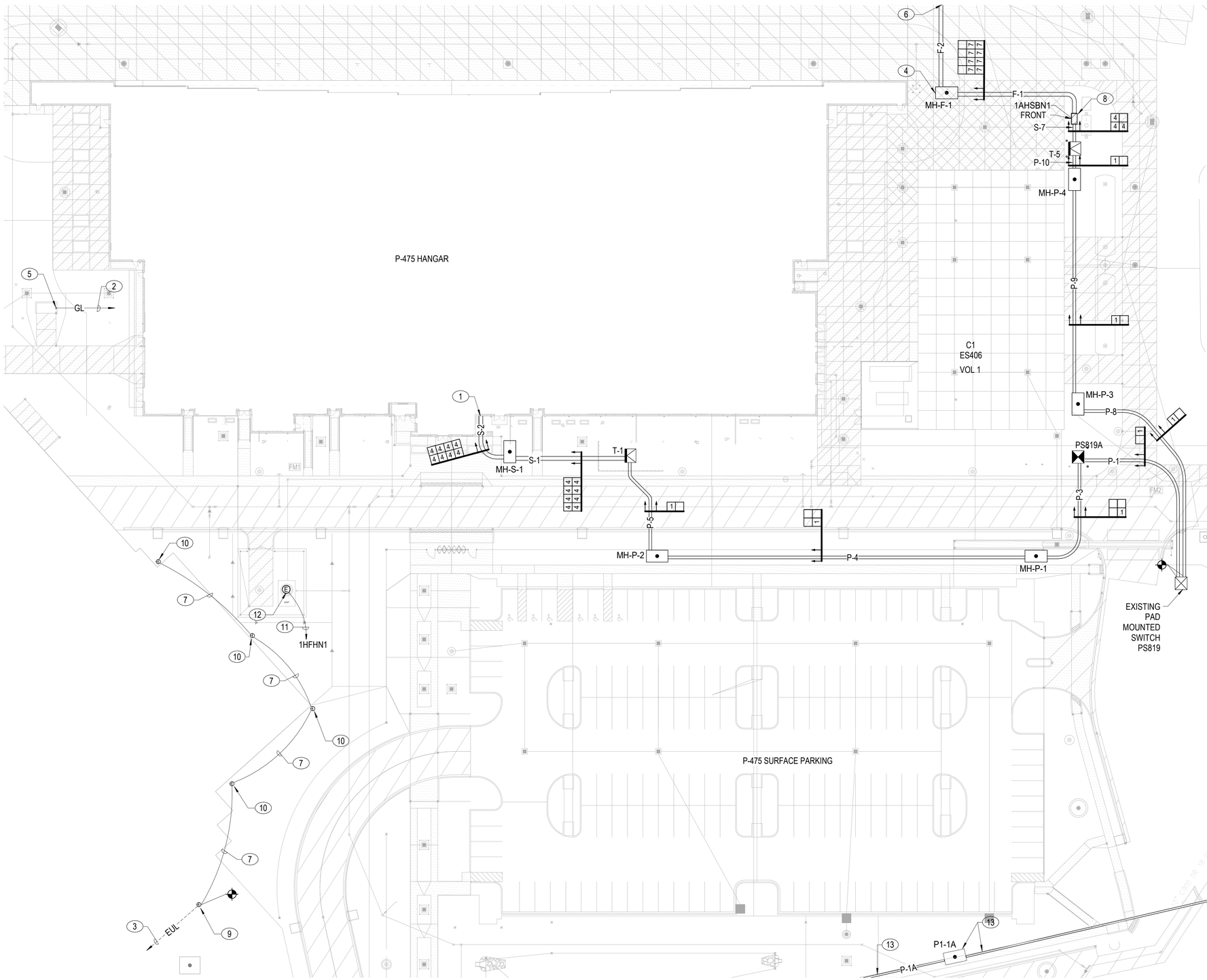

NOTES:

SHEET NOTES:

1. SEE CIVIL ENGINEERING DEMOLITION SHEETS FOR PROPOSED ROUTING OF ELECTRICAL UTILITIES TO INDIVIDUAL SHADE STRUCTURES.
2. THE FIRST FLOOR SLAB IS A STRUCTURAL SLAB. ALL UTILITIES MUST BE SUPPORTED FROM THE SLAB AND UTILITIES MUST HAVE FLEXIBLE CONNECTORS AS THE UTILITY ENTERS THE BUILDING.
3. UNDERGROUND CONDUITS ROUTED BENEATH THE CONCRETE SLAB SHALL BE SECURELY SUPPORTED BY EMBEDDED CONDUIT SADDLES/BRACKETS RATED FOR IN-SLAB USE. SADDLES SHALL BE ATTACHED TO FOOTING REBAR OR WELDED BRACKETS WITHOUT COMPROMISING REBAR INTEGRITY. CONDUIT TYPE (EMT, RMC/IMC, OR PVC) AND SIZE SHALL DETERMINE SPACING, WITH SADDLE SPACING NOT EXCEEDING 6 FT AND NOT LESS THAN 3 FT FOR TYPICAL RUNS. PROVIDE PROPER ALIGNMENT, REQUIRED CONCRETE COVER, AND RESTRAINT TO PREVENT MOVEMENT DURING POUR AND OVER THE LIFE OF THE SLAB. ALL HARDWARE SHALL BE CORROSION-RESISTANT OR EPOXY-COATED AS REQUIRED FOR ALKALI ENVIRONMENTS AND COMPATIBLE WITH THE CONDUIT MATERIAL. COORDINATE WITH FORMWORK TO AVOID INTERFERENCE WITH REBAR CHAIRS, STIRRUPS, AND EMBEDS.
4. ANY UNDERGROUND ELECTRICAL CONDUIT ENTERING THE BUILDING PERIMETER SHALL PASS THROUGH A FLEXIBLE JOINT OR EXPANSION/CONTRACTION DEVICE RATED FOR EMBEDDED USE TO ACCOMMODATE SETTLEMENT, THERMAL MOVEMENT, AND SOIL SHIFTS. THE FLEXIBLE JOINT SHALL BE LOCATED AT THE BUILDING ENVELOPE ON THE INTERIOR SIDE OF THE EXTERIOR WALL AND SHALL BE PROTECTED FROM MECHANICAL DAMAGE AND MOISTURE INGRESS.

KEY NOTES (00)

1 EXTEND TO BOTTOM OF 1HBHNSB1. SEE A1/EP401 IN VOLUME 2B FOR LOCATION.
2 EXTEND AND BOND TO HANGAR GROUND LOOP CONDUCTOR.
3 EXISTING CIRCUIT CONTINUES TO ADDITIONAL APRON EDGE FIXTURES AND TO BUILDING 728 WHERE CIRCUIT ORIGINATES. COORDINATE LOCATION OF PANEL SERVING APRON EDGE LIGHTS WITH CONTRACTING OFFICER.
4 UTILITY STRUCTURE SHALL BE RATED FOR 100,000LB WHEEL LOAD MINIMUM.
5 GROUND BUS SERVING THE OXYGEN STORAGE BUILDING. MOUNT AT 6'-0" AFF TO TOP. SEE A2/EP502 IN VOLUME 2B FOR DETAIL. ROUTE GROUNDING CONDUCTOR TO BELOW GRADE IN 1" SCHEDULE 40 PVC.
6 SEE SHEET ES100B IN VOLUME 1 FOR CONTINUATION.
7 3/4"C - (2)#12 + (1)#12 GND. BURY AT 36" BELOW FINISHED GRADE TO TOP.
8 CONCRETE PAD. SEE A4/ES503 FOR DETAIL.
9 EXISTING APRON EDGE LIGHT TO REMAIN.
10 RELOCATED APRON EDGE LIGHT AND ISOLATION TRANSFORMER. SEE C3/ES506 FOR MOUNTING DETAIL.
11 SEE SHEET EP603 IN VOLUME 2B FOR CONDUIT AND WIRE SIZE.
12 CONNECTION TO DUPLEX SUBMERSIBLE NON-CLOG PUMP STATION. FED FROM THE HANGAR BUILDING.
13 SEE SHEET ES100C IN VOLUME 1 FOR ADDITIONAL INFORMATION.

PLAN NORTH

0 5' 30' 60' 90' 120'
1" = 30' GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

A1 ELECTRICAL SITE PLAN - HANGAR/OSF/SHOP ANNEX

1" = 30'-0"

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	

NAVFAC

NICHOLAS G. ZUBRZYCKI
LICENSE
No. 64299
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
SEAL

BAMFORTH
ENGINEERS + SURVEYORS
AE INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
Approved by J. Scott Roberts
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE	12/15/2022
DES RLW DRW RLW CHK KLM	
PMDM	KTB / RLH
BRANCH MANAGER	JAS
CHIEF ENG/ARCH	EJA
FP ENGINEER	DSN

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NORFOLK, VA
DC CODE:
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS
ELECTRICAL SITE PLAN - HANGAR

SCALE: 1" = 30'-0"
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.: 12871502
SHEET 1407 OF 1412

ES100XA

DRAWFORM REVISION: 25 AUGUST 2020

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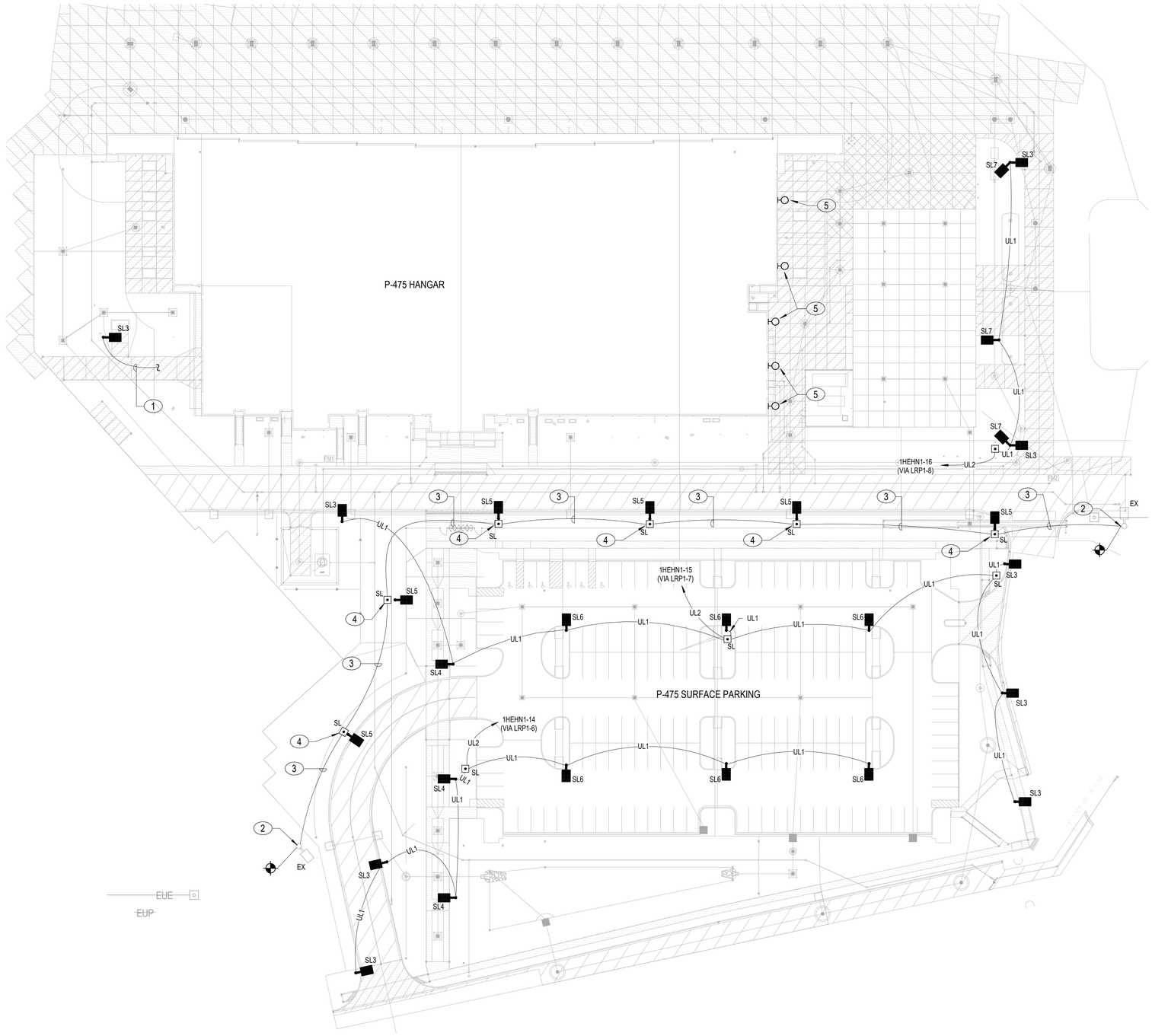

NOTES:

SHEET NOTES:

A. SITE LIGHTING SHALL BE CONTROLLED VIA RELAY PANEL LRP1. SEE RELAY PANEL RISER AND RELAY PANEL SCHEDULES ON SHEET EL601 IN VOLUME 2B. SEE SHEET EL701 IN VOLUME 2B FOR LIGHTING FIXTURE SCHEDULE.
B. POLE MOUNTED FIXTURES WILL BE POSITIONED SUCH THAT THE EDGE OF THE CONCRETE BASE IS LOCATED 12" FROM THE EDGE OF THE CURB.
C. COORDINATE FINAL LOCATION OF SITE LIGHTING WITH THE LANDSCAPING PLANS.
D. UNDERGROUND CONDUIT AND CONDUCTOR RUNS ARE DEFINED AS FOLLOWS: UL1 - 1" C (2)#10 + #10 GND, UL2 - 1"C (2)#8 + #10 GND.

KEY NOTES (00)

1 SEE SHEET EL101D IN VOLUME 2B FOR CONTINUATION.
2 INTERCEPT EXISTING SECURITY FENCE LIGHTING CIRCUIT IN EXISTING HANDHOLE AND EXTEND AS INDICATED.
3 2" C - (2)#10 + (1)#10 GND. FOR RESTRICTED AREA SECURITY FENCE LIGHTING CIRCUIT. BURY AT 24" BELOW FINISHED GRADE TO TOP.
4 PROVIDE 2" C - (2)#10 + (1)#10 GND. FROM HANDHOLE TO LIGHTING FIXTURE. BURY AT 24" BELOW FINISHED GRADE TO TOP. ROUTE CONDUCTORS IN HOLLOW POLE UP TO LIGHTING FIXTURE.
5 FOR BASE BID OPTION WITHOUT PARKING GARAGE AND OSF, BUILDING MOUNTED LUMINAIRE WILL BE TYPE W1D. SEE VOLUME 2B EL101C AND EL101F FOR CIRCUITING INFORMATION AND EL701 FOR LIGHTING FIXTURE SCHEDULE.

PLAN NORTH

0 20' 40' 80' 120' 160'
1" = 40' GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
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A1 OVERALL SITE PLAN - LIGHTING
1" = 40'-0"

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	

NAVFAC

NICHOLAS G. ZUBRZYCKI LICENSE No 64299 STATE OF FLORIDA PROFESSIONAL ENGINEER

BAMFORTH ENGINEERS & CONSULTANTS

AE INFO

APPROVED
FOR COMMANDER NAVFAC 11/21/2025

ACTIVITY
Approved by J. Scott Roberts.
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES RLW	DRW RLW	CHK KLM	
PM/DM	KTB / RLH		
BRANCH MANAGER	JAS		
CHIEF ENG/ARCH	EJA		
FP ENGINEER	DSN		

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NORFOLK, VA

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
DC CORE

MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS

LIGHTING SITE PLAN - OVERALL

SCALE: 1" = 40'-0"
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871503
SHEET 1408 OF 1412

ES101X

DRAWFORM REVISION: 28 AUGUST 2020

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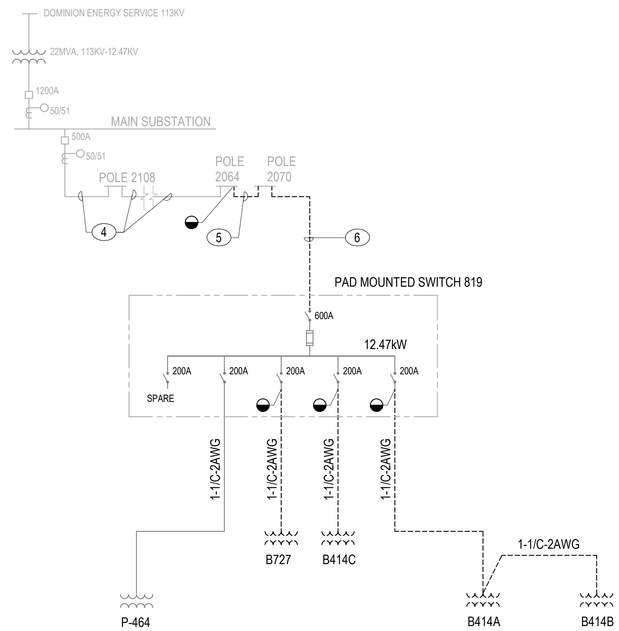
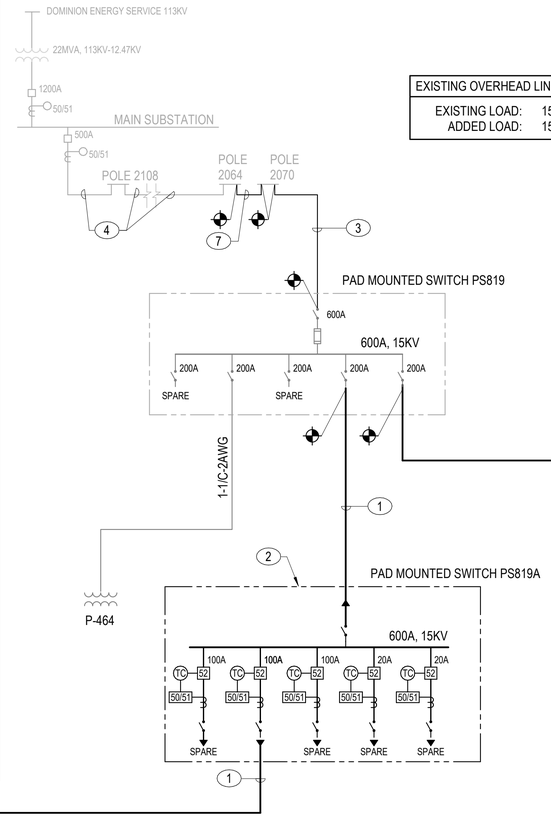
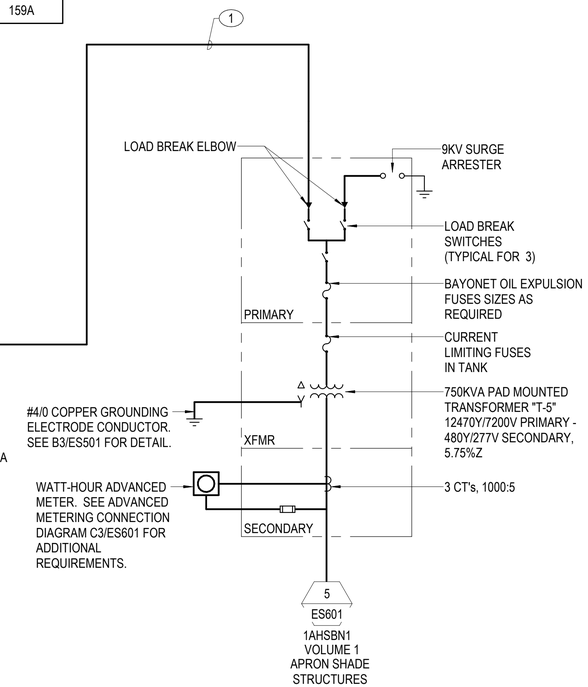


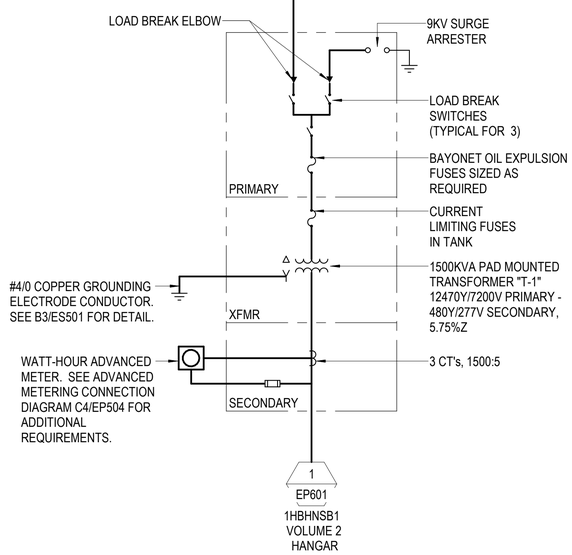
MEDIUM VOLTAGE DEMOLITION PLAN



EXISTING OVERHEAD LINE LOAD

EXISTING LOAD:	150A
ADDED LOAD:	159A





A1 MEDIUM VOLTAGE SINGLE LINE DIAGRAM

12" = 1'-0"

NOTES:

KEY NOTES (00)

1. SEE SHEETS ES100, ES100A AND ES100B FOR DUCT BANK AND FEEDER INFORMATION.
2. 600A, 15KV, SF6 GAS INSULATED, PAD MOUNT SWITCH. LOAD SIDE SWITCHES WILL BE EQUIPPED WITH VACUUM CIRCUIT INTERRUPTERS WITH ELECTRONIC OVERCURRENT RELAYS.
3. REPLACEMENT POLE RISER, 5" SCHEDULE 80PVC CONDUIT WITH (3)1/C, 15KV, MV-105, #4/0 + (1)#2 600V GROUND (ALUMINUM). BURY AT 36" BELOW FINISHED GRADE WITH WARNING TAPE AT 12" ABOVE THE CONDUIT.
4. EXISTING #2/0 QUAIL ACSR OVERHEAD LINE.
5. REMOVE #2 QUAIL ACSR OVERHEAD LINE AND REPLACE AS INDICATED ON A1/ES600.
6. REMOVE 5"C - (3)#4 POLE RISER AND REPLACE AS INDICATED ON A1/ES600.
7. #2/0 QUAIL ACSR OVERHEAD LINE.

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
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STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	

NAVFAC

NICHOLAS G. ZUBRZYCKI LICENSE No 64299 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL

BAMFORTH ENGINEERS - CONTRACTORS

A/E INFO

APPROVED

FOR COMMANDER NAVFAC 11/26/2025

ACTIVITY: Approved by J. Scott Roberts, Asset Management Branch Head & Supervisory Facility Planner, PWD Beaufort, SC via email.

SATISFACTORY TO DATE	12/15/2022
DES RLW / DRW RLW / CHK KLM	
PM/DM	KTB / RLH
BRANCH MANAGER	JAS
CHIEF ENG/ARCH	EJA
FP ENGINEER	DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
DC CORE
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NORFOLK, VA
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS
SINGLE LINE DIAGRAM - MEDIUM VOLTAGE

SCALE:	12" = 1'-0"
EPROJECT NO.:	1363603
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12871504
SHEET	1409 OF 1412

ES600X

DRAWFORM REVISION: 25 AUGUST 2020

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SITE LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE DESCRIPTION	VOLTAGE	LAMP	LUMEN	CCT	CRI	LOAD	MOUNTING	NOTES	DETAIL REFERENCE
SF1	HORIZONTAL FLOOD LIGHT, SINGLE PIECE ALUMINUM DIE CAST HOUSING, TEMPERED GLASS LENS,ONE-PIECE SILICONE GASKET, DIE CAST ALUMINUM KNUCKLE WITH 5 DEGREE AIMING INCREMENTS, AND WIDE FLOOD DISTRIBUTION, UL LISTED FOR WET LOCATION.	277V	LED	43000	4000K	70	316 VA	ON STRUCTURE	MOUNT FIXTURE ON SHADE STRUCTURE FRAMING AT TOP OF VERTICAL SUPPORT MEMBERS PER MANUFACTURER RECOMMENDATIONS	C2/ES506
SL3	SINGLE HEAD LED POLE TOP WITH EXTRUDED ALUMINUM DRIVER ENCLOSURE, DIE-CAST ALUMINUM END-CAPS, SPECULAR OPTICAL REFLECTORS, RECTANGULAR EXTRUDED ALUMINUM SUPPORT ARM, DARK BRONZE POWDER COAT FINISH WITH TYPE III DISTRIBUTION.	277V	LED	7500	4000K	70	59 VA	25'-0" POLE	SEE A2/ES506 FOR POLE DETAIL	C1/ES506
SL4	SINGLE HEAD LED POLE TOP WITH EXTRUDED ALUMINUM DRIVER ENCLOSURE, DIE-CAST ALUMINUM END-CAPS, SPECULAR OPTICAL REFLECTORS, RECTANGULAR EXTRUDED ALUMINUM SUPPORT ARM, DARK BRONZE POWDER COAT FINISH WITH TYPE III DISTRIBUTION.	277V	LED	5000	4000K	70	34 VA	15'-0" POLE	SEE A2/ES506 FOR POLE DETAIL	C1/ES506
SL5	SINGLE HEAD LED POLE TOP WITH EXTRUDED ALUMINUM DRIVER ENCLOSURE, DIE-CAST ALUMINUM END-CAPS, SPECULAR OPTICAL REFLECTORS, RECTANGULAR EXTRUDED ALUMINUM SUPPORT ARM, GRAY POWDER COAT FINISH WITH TYPE II NARROW DISTRIBUTION.	480V	LED	11000	4000K	70	87 VA	45'-0" POLE, BURIED 10' IN GRADE.	SEE A3/ES506 FOR POLE DETAIL	C1/ES506
SL6	SINGLE HEAD LED POLE TOP WITH EXTRUDED ALUMINUM DRIVER ENCLOSURE, DIE-CAST ALUMINUM END-CAPS, SPECULAR OPTICAL REFLECTORS, RECTANGULAR EXTRUDED ALUMINUM SUPPORT ARM, DARK BRONZE POWDER COAT FINISH WITH TYPE V WIDE DISTRIBUTION.	277V	LED	7800	4000K	70	59 VA	25'-0" POLE	SEE A2/ES506 FOR POLE DETAIL	C1/ES506
SL7	SINGLE HEAD LED POLE TOP WITH EXTRUDED ALUMINUM DRIVER ENCLOSURE, DIE-CAST ALUMINUM END-CAPS, SPECULAR OPTICAL REFLECTORS, RECTANGULAR EXTRUDED ALUMINUM SUPPORT ARM, DARK BRONZE POWDER COAT FINISH WITH TYPE IV FORWARD THROW DISTRIBUTION.	277V	LED	7500	4000K	70	59 VA	25'-0" POLE	SEE A2/ES506 FOR POLE DETAIL	C1/ES506

LRP1 PARTIAL RELAY PANEL SCHEDULE

RELAY NUMBER	CIRCUIT		LOAD DESCRIPTION	CONTROL SEQUENCE CODE
	PANEL	CIRCUIT #		
6	1HEHN1	14	LTG - SE PARKING AND DRIVE POLE MOUNTED	C
7	1HEHN1	15	LTG - NW PARKING AND DRIVE POLE MOUNTED	C
8	1HEHN1	16	LTG - NORTH PAD POLE MOUNTED	C

RELAY PANEL SCHEDULE NOTE: SEE PACKAGE 2B EL601 FOR REMAINDER OF SCHEDULE AND SEQUENCE CODE INFORMATION.

0 ½" 1" 2" 3" 4"
1'-0" = 1'-0" GRAPHIC SCALE

NOTE:
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IT IS A REDUCED SIZE DRAWING

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	

NAVFAC

NICHOLAS G. ZUBRZYCKI LICENSE No 64299 STATE OF FLORIDA PROFESSIONAL ENGINEER

BAMFORTH ENGINEERS + SURVEYORS

AE INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
Approved by J. Scott Roberts,
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	DRW	CHK
JAD	JAD	NGZ

PMDM KTB / RLH
BRANCH MANAGER JAS
CHIEF ENG/ARCH EJA
FP ENGINEER DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
NORFOLK, VA
DC CORE
MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS
SITE LIGHTING SCHEDULES

SCALE: 12" = 1'-0"
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.: 12871505
SHEET 1410 OF 1412

ES701X

DRAWFORM REVISION: 25 AUGUST 2020

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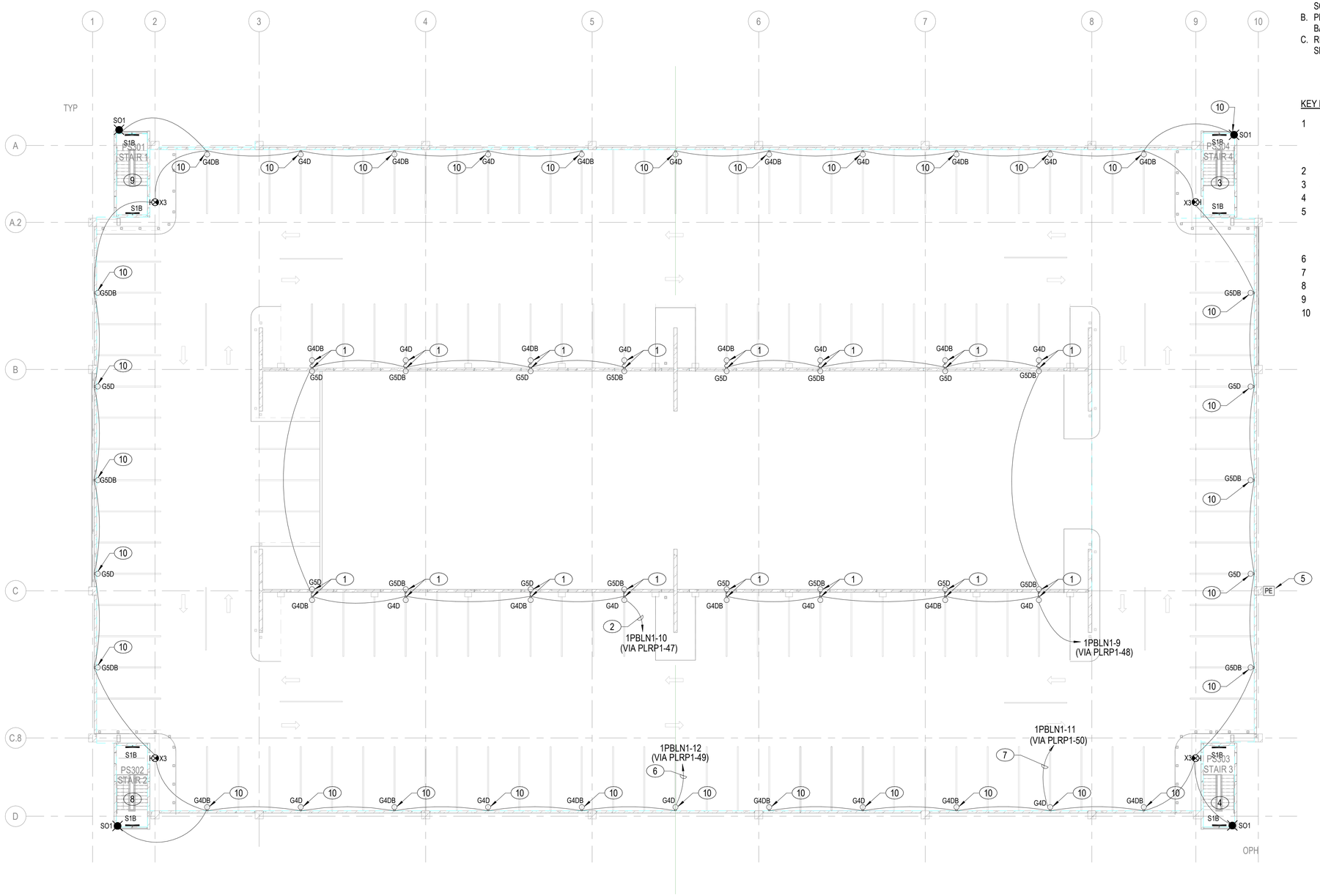

A1 LIGHTING PLAN, THIRD FLOOR, OVERALL - W/O PV PANELS

1/16" = 1'-0"

NOTES:

SHEET NOTES:

A. LIGHTING FIXTURES G3D, G3DB, G4D AND G4DB WILL BE CONTROLLED VIA LIGHTING RELAY PANEL "PLRP1" LOCATED IN ELECTRICAL ROOM P104. REFER TO SHEET PEL601 FOR RELAY PANEL SYSTEM WIRING DIAGRAM AND SCHEDULES.
B. PROVIDE AN UNSWITCHED PHASE CONDUCTOR TO ALL EMERGENCY BATTERY BACK-UP LIGHTING FIXTURES AND EXIT SIGNS.
C. REFER TO SHEET PEG001 FOR LIGHTING FIXTURE SYMBOLS LEGEND. REFER TO SHEET PEL701 FOR LIGHTING FIXTURE SCHEDULE.

KEY NOTES (00)

1 MOUNT FIXTURE TO THE BACK OF THE METAL POST SUPPORT STRUCTURE. MOUNT AT 9'-0" ABOVE LEVEL 3 FINISHED FLOOR, REFER TO SHEET PAE582Y FOR MOUNTING DETAIL. CONCEAL BRANCH CIRCUITING WITHIN MAIN POST.
2 1/2"C - (2)#10 + (1)#10 GND.
3 SEE C3/PEL301 FOR MOUNTING HEIGHTS AND CIRCUIT INFORMATION.
4 SEE C1/PEL301 FOR MOUNTING HEIGHTS AND CIRCUIT INFORMATION.
5 BUILDING MOUNTED PHOTOCELL CONNECTED TO LIGHTING CONTROL PANEL "PLRP1" LOCATED IN ELECTRICAL ROOM P104. ORIENT NORTH. MOUNT PHOTOCELL ON EXTERIOR WALL AT 12" BELOW TOP OF WALL TO TOP OF DEVICE.
6 3/4"C - (2)#8 + (1)#8 GND.
7 1/2"C - (2)#10 + (1)#10 GND.
8 SEE A3/PEL301 FOR MOUNTING HEIGHTS AND CIRCUIT INFORMATION.
9 SEE A1/PEL301 FOR MOUNTING HEIGHTS AND CIRCUIT INFORMATION.
10 MOUNT FIXTURE TO PRECAST CONCRETE BEAM. MOUNT AT 9'-0" ABOVE LEVEL 3 FINISHED FLOOR,

KEYPLAN

0 10' 20' 40' 60'
1/16" = 1'-0" GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

STM	DESCRIPTION	DATE	APPR
1	MOD P00005	05/2023	
2	MOD P00006 AND MOD P00007	10/2025	

NAVFAC

NICHOLAS G. ZUBRZYCKI LICENSE No. 64299 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL

BAMFORTH ENGINEERS & CONTRACTORS

AE INFO

APPROVED
FOR COMMANDER NAVFAC 11/21/2022

ACTIVITY
Approved by J. Scott Roberts,
Asset Management Branch Head &
Supervisory Facility Planner, PWD
Beaufort, SC via email.

SATISFACTORY TO DATE 12/15/2022

DES	RLW	DRW	RLW	CHK	KLM
PM/DM	KTB / RLH				
BRANCH MANAGER	JAS				
CHIEF ENG/ARCH	EJA				
FP ENGINEER	DSN				

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NORFOLK, VA

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC
DC CODE:

MCAS BEAUFORT
BEAUFORT, SC

P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS

PARKING GARAGE - LIGHTING PLAN - THIRD FLOOR - W/O PV PANELS

SCALE: 1/16" = 1'-0"
EPROJECT NO.: 1363603
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12871506
SHEET 1411 OF 1412

PEL103X

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://20042 VMF A1 002 F35 Maintenance Hangar/20042 F35_main Hangar_Parking Facility-EL-R17.rvt
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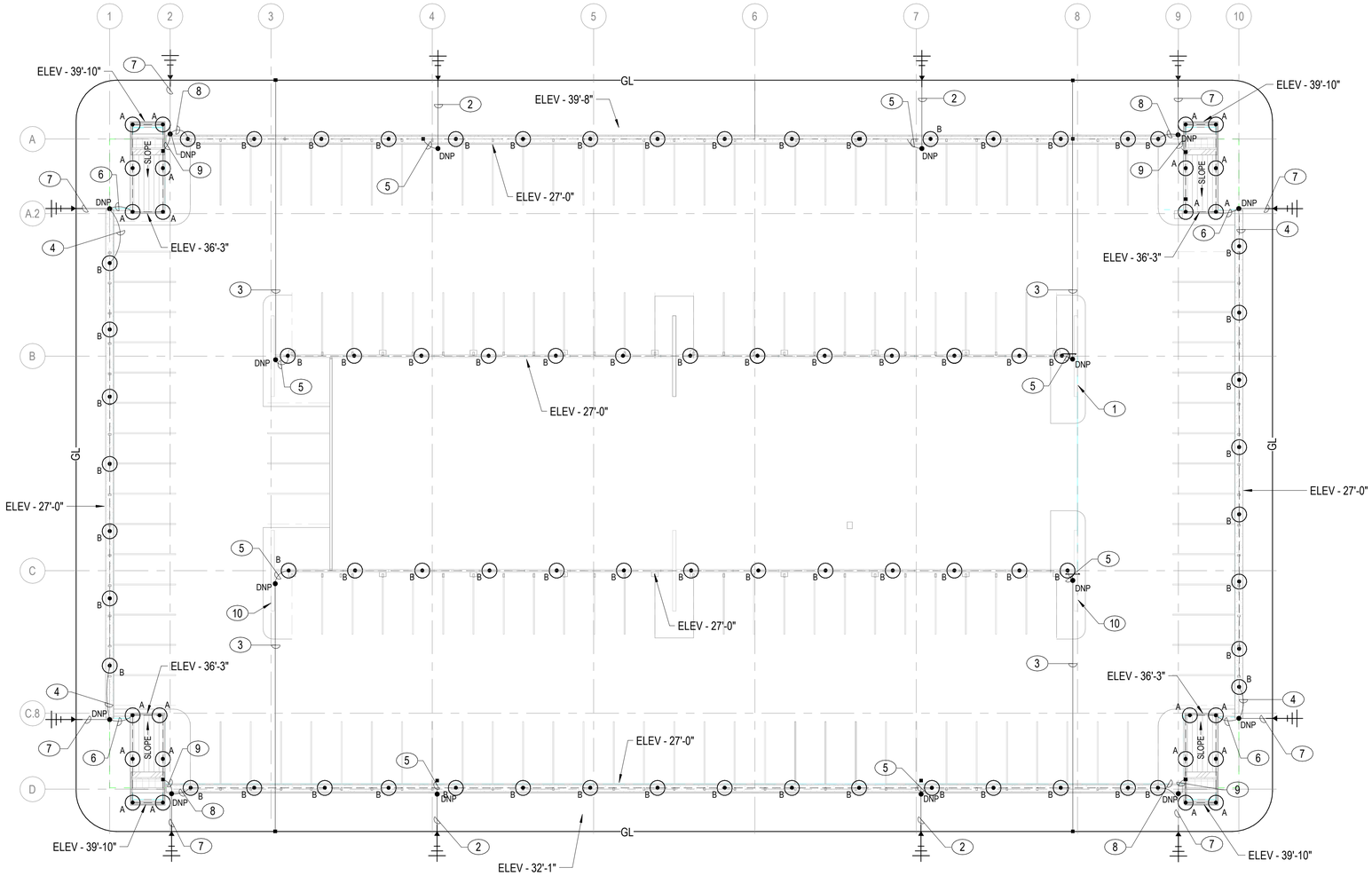

A1 LIGHTNING PROTECTION PLAN - WITH OUT PV PANELS

1" = 20'-0"

NOTES:

SHEET NOTES:

A. FURNISH AND INSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 STANDARDS, AND UL96A.
B. SEE SHEET PEQ501 FOR LIGHTNING PROTECTION SYSTEM DETAILS.
C. ALL CONDUCTORS WILL BE FASTENED AT A MAXIMUM SPACING OF NOT MORE THAN 3 FEET.
D. AIR TERMINAL WILL BE PLACED AT OR WITHIN 2 FEET OF THE ENDS OF EDGES AN CORNER OF ROOF. AIR TERMINALS WILL BE SPACED AT 25 FEET MAXIMUM BETWEEN AIR TERMINALS.
E. PROVIDE UL MASTER LABEL FOR THE LIGHTNING PROTECTION SYSTEM UPON COMPLETE INSTALLATION OF THE LIGHTNING PROTECTION SYSTEM.
F. ALL CONDUITS ROUTED EXPOSED DOWN EXTERIOR WALL WILL BE SCHEDULE 80 PVC.
G. BOND THE REINFORCING STEEL IN THE GARAGE FOUNDATION TO THE GROUND LOOP CONDUCTOR.

KEY NOTES (00)

1 STRUCTURAL SUPPORT WALL.
2 1" SCHEDULE 40 PVC CONDUIT WITH DOWN CONDUCTOR SECURED TO EAST SIDE OF COLUMN EXTERIOR. ROUTE EXPOSED DOWN BUILDING EXTERIOR TO BELOW GRADE AND TURN OUT AND BOND TO THE GROUND LOOP AS INDICATED. PAINT CONDUIT TO MATCH BUILDING EXTERIOR.
3 1" SCHEDULE 40 PVC CONDUIT WITH DOWN CONDUCTOR SECURED TO INTERIOR STRUCTURAL SUPPORT WALL. ROUTE EXPOSED DOWN WALL TO BELOW THE GROUND LEVEL SLAB AND TURN OUT AND BOND TO THE GROUND LOOP AS INDICATED. PAINT EXPOSED CONDUIT TO MATCH WALL.
4 ROUTE CONDUCTOR EXPOSED DOWN CANOPY STRUCTURAL SUPPORT TO THE DOWN CONDUCTOR AT LOWER WALL. BOND LIGHTNING PROTECTION CONDUCTOR TO CANOPY STRUCTURAL SUPPORT.
5 ROUTE CONDUCTOR EXPOSED DOWN CANOPY STRUCTURE TO DOWN CONDUCTOR. BOND THE LIGHTNING PROTECTION CONDUCTOR TO CANOPY STRUCTURE STEEL.
6 ROUTE CONDUCTOR EXPOSED DOWN BUILDING EXTERIOR. CONNECT TO CANOPY STRUCTURE DOWN CONDUCTOR BELOW SAFETY RAIL BOTTOM. BOND DOWN CONDUCTOR TO SAFETY RAIL.
7 1" SCHEDULE 40 PVC CONDUIT WITH DOWN CONDUCTOR. ROUTE EXPOSED DOWN BUILDING EXTERIOR TO BELOW GRADE. TURN OUT AND BOND TO GROUND LOOP AS INDICATED. PAINT CONDUIT TO MATCH BUILDING EXTERIOR COLOR.
8 ROUTE CONDUCTOR EXPOSED DOWN FROM CANOPY TO DOWN CONDUCTOR MOUNTED TO BUILDING EXTERIOR. BOND LIGHTNING PROTECTION CONDUCTOR TO CANOPY STRUCTURAL SUPPORT.
9 ROUTE CONDUCTOR EXPOSED DOWN FROM STAIRWELL ROOF TO DOWN CONDUCTOR MOUNTED TO BUILDING EXTERIOR.

PLAN NORTH

0 10' 20' 40' 60' 80'
1" = 20' GRAPHIC SCALE

NOTE:
IF THIS DRAWING IS LESS THAN 34" X 22"
IT IS A REDUCED SIZE DRAWING

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1	MOD P00005	05/2023	
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ~ MID-ATLANTIC NORFOLK, VA
DO CODE: MCAS BEAUFORT
BEAUFORT, SC
P-475 AIRCRAFT MAINTENANCE HANGAR - VOLUME 6
SITE BASE BID WITH ADDITIONAL OPTIONS
PARKING GARAGE - LIGHTNING PROTECTION PLAN - WITH OUT PV PANELS

SCALE:	1" = 20'-0"
EPROJECT NO.:	1363603
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12871507
SHEET	1412 OF 1412

PEQ131X

DRAWFORM REVISION: 25 AUGUST 2020

Autodesk Docs://2042 UMFAT 502 F35 Maintenance Hangar/2042 F35 maint Hangar_Parking Facility-EL-R/V72024.rvt
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