ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	MAGNETIC STARTER/DISCONNECT
	MAGNETIC STARTER
	FUSED DISCONNECT
	NON FUSED DISCONNECT
WP	DUPLEX RECEPTACLE, 120V, 20A SPECIFICATION GRADE, NEMA 5-20 R SUBSCRIPT "WP" INDICATES WEATHERPROOF WHILE IN USE AND GROUND FAULT INTERRUPTER (GFCI).
	WALL MOUNTED FIXTURE
	WALL/CEILING MOUNTED LED LIGHT FIXTURE
	WALL/CEILING MOUNTED LED LIGHT FIXTURE WITH AC DRIVER AND EMERGENCY DRIVER
	SINGLE SIDED EXIT SIGN
	DOUBLE SIDED EXIT SIGN
	LIGHTING FIXTURE
	EMERGENCY LIGHT, BATTERY POWERED TWO LAMPS
	EMERGENCY LIGHT, REMOTE HEAD ONE LAMP
J J	JUNCTION BOX
S	120/277V, 20A LIGHT SWITCH, SPECIFICATION GRADE
	EXISTING PANELBOARD
	PANELBOARD
T	TRANSFORMER
	CIRCUIT BREAKER
K	KEY INTERLOCK SYSTEM FOR CIRCUIT BREAKER
	TRANSFORMER
	SPLICE
	SWITCH
	FUSE
N L	FEMALE RECEPTACLE BLOCK "N" = "NORMAL POWER SOURCE" "L" = "LOAD"
—G—	GROUDNING ELECTRODE CONDUCTOR
	CORD WITH MALE PLUGS
	MOTOR
CB	ENCLOSED CIRCUIT BREAKER
	DUAL TECHNOLOGY OCCUPANCY SENSOR (PASSIVE INFRARED AND ULTRASONIC)
	DOORBELL PUSHBUTTON
DB	DOORBELL
MCC	MOTOR CONTROL CENTER
FC	FIRE ALARM CONTROL PANEL
A-1	BRANCH CIRCUIT HOMERUN, A-1 INDICATES PANEL DESIGNATION AND CIRCUIT NUMBER
	REMOVE BRANCH CIRCUIT (WIRING AND CONDUIT) BACK TO SOURCE PANELBOARD

ELECTRICAL ABBREVIATIONS

A, AMP	AMPERE
ASW	AUXILIARY SALT WATER
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUCTOR, CONDUIT
CB	CIRCUIT BREAKER
CAT	CATALOG, CATEGORY
CKT	CIRCUIT
DH	DEHUMIDIFIER
DS	DISCONNECT SWITCH
E	EMERGENCY
EF	EXHAUST FAN
EXIST	EXISTING
G	GROUND; GROUND FAULT CIRCUIT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
H	HEATING LOAD TYPE FOR PANEL SCHEDULE; LOAD
HP	HORSEPOWER
KAIC	KILO-AMPERE INTERRUPTING CAPACITY
KCMIL	KILO-CIRCULAR MILS
KVA	KILO-VOLT-AMPERE
KW	KILO-WATT
L	LIGHTING LOAD TYPE FOR PANEL SCHEDULE
LOTO	LOCK OUT TAG OUT
LTG	LIGHTING
M	MOTOR LOAD TYPE FOR PANEL SCHEDULE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
N	NORMAL
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO, #	NUMBER
ø	PHASE
P	POLE
P/O	PART OF
R	RECEPTACLE LOAD TYPE FOR PANEL SCHEDULE
REC	RECEPTACLE
SF	SUPPLY FAN
TYP	TYPICAL
UE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS LABORATORIES
UH	UNIT HEATER
V	VOLT
W	WATT, WIRE
W/	WITH
WP	WEATHERPROOF

ELECTRICAL GENERAL NOTES

1. REFER TO SHEET G-003 FOR GENERAL AND SEQUENCING NOTES.
2. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA, AND STATE AND LOCAL CODES.
3. ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND UL LISTED UNLESS OTHERWISE NOTED.
4. LIGHT FIXTURES AND OTHER CEILING MOUNTED ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL WORK TO AVOID INTERFERENCE.
5. A SEPARATE INSULATED GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH INDIVIDUAL CIRCUIT. METAL CONDUIT SHALL BE GROUNDED BUT SHALL NOT BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.
6. CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE.
7. UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 1P, 15A 2P, 20A 1P, 20A 2P BRANCH CIRCUIT SHALL BE 2 #12 + #12G, IN 3/4"C.
8. UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 3P AND 20A 3P BRANCH CIRCUIT SHALL BE 3 #12 + #12G IN 3/4"C.
9. A SEPARATE NEUTRAL CONDUCTOR SHALL BE PROVIDED FOR EACH INDIVIDUAL 120V CIRCUIT.
10. UNLESS OTHERWISE INDICATED, CONDUIT SHALL BE PVC.
11. ENCLOSURES FOR ELECTRICAL EQUIPMENT SHALL BE NEMA 4X.

LINE TYPE LEGEND

- - - - - - REMOVE EXISTING ITEMS
———— EXIST ITEMS TO REMAIN
———— PROVIDE ITEMS

SEQUENCING NOTES (REFER TO SHEETS ED101, ED501, E-101 AND E-501)

1. BEFORE REMOVING THE EXISTING CONDUCTORS AND CONDUITS (LOCATED ON LEVEL 2, SHOWN ON DRAWING ED102 AND ED501) FROM THE EXISTING MAIN CIRCUIT BREAKERS TO MCC1 AND MCC2, PROVIDE THE NEW CONDUCTORS AND CONDUITS ON THE OPERATING LEVEL FROM THE MAIN BREAKERS TO MCC1 AND MCC2, AS INDICATED ON THE ONE LINE DIAGRAM ON SHEET E-501.
2. WHILE A BOAT IS IN THE DRYDOCK, POWER OUTAGES SHALL BE A MAXIMUM OF 4 HOURS (UNLESS OTHERWISE INDICATED). POWER OUTAGES SHALL BE KEPT TO THE ABSOLUTE MINIMUM.
3. THE TWO DRAINAGE PUMPS (FED FROM MCC1) SHALL ALWAYS HAVE BACKUP POWER AVAILABLE WITHIN 30 MINUTES.
4. TEMPORARY CABLES AND DISCONNECT SWITCHES (INDICATED IN THE NOTES BELOW) THAT WILL BE USED TO PROVIDE TEMPORARY POWER SHALL BE INSTALLED PRIOR TO PHASE 1 AND SHALL BE MADE READY FOR CONNECTION WHEN TEMPORARY POWER IS REQUIRED.
5. WORK ON ENERGIZED EQUIPMENT IS NOT PERMITTED.

PHASE 1: REPLACE JUNCTION BOX IN STAIR 002 AND FEEDERS BETWEEN JUNCTION BOX AND MCC1 AND PROVIDE TEMPORARY POWER TO MCC1 FROM GALLERY 1AN.

6. AT GENERATOR, TURN ATS TO "OFF" AND LOTO.
7. TURN 800-AMP TIE CIRCUIT BREAKER OFF AND LOTO. TURN 800A MAIN CIRCUIT BREAKER OFF AND LOTO. AT LOAD CENTER LC3, TURN OFF CIRCUIT BREAKER LC-3-51 AND LOTO.
8. DISCONNECT, COLOR CODE, AND MAKE SAFE THE ORIGINAL FEEDER FROM THE EXISTING 400A CIRCUIT BREAKER AND DISCONNECT THE OTHER END OF THIS FEEDER (THE FEEDER FROM THE "L" TERMINAL OF THE OUTDOOR PANEL) AT MCC-1.
9. PROVIDE TEMPORARY CABLE FROM EXISTING 400-AMP CIRCUIT BREAKER TO THE MAIN LUGS OF MCC1. ROUTE CABLE IN A MANNER THAT WILL NOT INTERFERE WITH THE REMOVAL OF THE EXISTING JUNCTION BOX IN STAIR 002 AND THE EXISTING FEEDERS BETWEEN THIS BOX AND MCC-1 (ROUTING OF TEMPORARY CABLE SHALL BE DONE PRIOR TO THE BEGINNING OF PHASE 1 TO MINIMIZE POWER OUTAGE).
10. AFTER TERMINATING TEMPORARY CABLE, REMOVE LOTO'S AND TURN ON LC-3-51 BREAKER AND EXISTING 800A MAIN BREAKER. LOTO SHALL REMAIN AT THE 800A TIE BREAKER AND GENERATOR ATS. NOTE THAT BACK-UP POWER TO MCC1 (AND THUS THE DRAINAGE PUMPS) IS AVAILABLE (UNTIL STEP 14 OF THIS PHASE) THROUGH THE EXISTING 800A TIE BREAKER AND CIRCUIT LC-3-15 (BACK-UP POWER IS NOT AVAILABLE FROM THE GENERATOR UNTIL STEP 17 OF THIS PHASE).
11. REMOVE EXISTING JUNCTION BOX IN STAIR 002 AND THE TWO EXISTING FEEDERS BETWEEN THIS BOX AND MCC-1 AS INDICATED ON SHEETS ED501 AND ED101.
12. PROVIDE JUNCTION BOX IN STAIR 002 AND FEEDERS BETWEEN THIS BOX AND MCC1 AS INDICATED ON SHEETS E-501 AND E-101.
13. PROVIDE TEMPORARY POWER FROM THE EXISTING 400A RECEPTACLES IN GALLERY 1AN TO THE "NORMAL" INPUT TERMINALS OF THE ATS AT THE GENERATOR. REFER TO SHEETS ED501 AND C-101. INSTALL HARD USAGE, PORTABLE POWER CABLES (FURNISHED BY GOVERNMENT, INSTALLED BY CONTRACTOR). INSTALL PORTABLE POWER CABLES AND DISCONNECT SWITCH PRIOR TO STARTING PHASE 1.
14. TURN THE EXISTING 400-AMP BREAKER, 800-AMP MAIN BREAKER, 800-AMP TIE BREAKER AND LC-3-51 BREAKER "OFF" AND LOTO BREAKERS.
15. REMOVE THE TEMPORARY CONNECTION (FROM STEP 8 ABOVE) BETWEEN EXISTING 400-AMP BREAKER AND THE EXISTING BUS OF MCC-1.
16. WITHIN MCC-1, CONNECT THE FEEDERS FROM THE JUNCTION BOX IN STAIR 002 AS SHOWN ON DRAWING E-501.
17. AT GENERATOR, REMOVE LOTO AND TURN "ON" ATS TO NORMAL POWER.

PHASE 2: PROVIDE TEMPORARY POWER TO MCC2 (REFER TO SHEET ED501)

18. PROVIDE A TEMPORARY 800-AMP FUSIBLE DISCONNECT SWITCH, FREE STANDING TEMPORARY SUPPORT SYSTEM AND CABLES PRIOR TO PHASE 1. SWITCH SHALL BE OFF AND LOTO. THIS SWITCH SHALL BE USED AS A TEMPORARY TIE SWITCH.
19. DE-ENERGIZE AND LOTO THE EXISTING 1200-AMP CIRCUIT BREAKER THAT FEEDS MCC2. AT LOAD CENTER LC3, TURN OFF AND LOTO CIRCUIT BREAKER LC-3-15.
20. REMOVE EXISTING 1200-AMP CIRCUIT BREAKER AND SALVAGE FOR TEMPORARY REINSTALLATION.
21. REMOVE LOTO'S AND TURN THE EXISTING 800-AMP TIE BREAKER, 800-AMP MAIN BREAKER AND LC-3-51 BREAKER "ON" TO FEED MCC2.
22. TEMPORARILY RELOCATE THE EXISTING 1200-AMP CIRCUIT BREAKER. PROVIDE A FREE STANDING, TEMPORARY SUPPORT SYSTEM FOR THIS CIRCUIT BREAKER (INSTALL TEMPORARY SUPPORT SYSTEM PRIOR TO START OF PHASE 1).
23. PROVIDE TEMPORARY FEEDERS AND CONNECT THE SUPPLY SIDE OF THE 1200-AMP BREAKER TO THE EXISTING INCOMING FEEDERS (FROM LC-3-15).
24. TURN THE EXISTING 800-AMP TIE BREAKER, 800-AMP MAIN BREAKER AND THE LC-3-51 OFF AND LOTO. DISCONNECT THE EXISTING CONDUCTORS FROM THE EXISTING 800-AMP TIE BREAKER TO THE EXISTING MCC2 FEEDERS.
25. PROVIDE TEMPORARY FEEDERS AND CONNECT THE LOAD SIDE OF RELOCATED 1200-AMP CIRCUIT BREAKER TO THE EXISTING FEEDERS TO MCC2.
26. PROVIDE TEMPORARY FEEDERS AND CONNECT THE SUPPLY SIDE OF THE TEMPORARY 800-AMP FUSIBLE DISCONNECT SWITCH TO THE EXISTING INCOMING FEEDERS FROM LC-3-51. CONNECT LOAD SIDE OF THE 800-AMP SWITCH TO THE EXISTING FEEDERS OF MCC2. THIS SWITCH SHALL SERVE AS A TEMPORARY TIE SWITCH AND SHALL BE OFF AND LOTO.
27. REMOVE LOTO AND ENERGIZE THE RELOCATED 1200-AMP CIRCUIT BREAKER TO FEED MCC2 (UNTIL PHASE 4). AT LOAD CENTER LC3, REMOVE LOTO AND TURN ON CIRCUIT BREAKER LC-3-15.

PHASE 3: REMOVE EXISTING MAIN CIRCUIT BREAKERS AND PROVIDE NEW MAIN CIRCUIT BREAKERS

28. REMOVE THE EXISTING 800-AMP AND 400-AMP BREAKER AND THE 800-AMP TIE BREAKER, THE EXISTING CONDUCTORS BETWEEN THEM, AND THE EXISTING PULL BOXES AND WIREWAYS LOCATED ON THE OPERATING LEVEL.
29. PROVIDE THE 1200-AMP, 800-AMP, 400-AMP CIRCUIT BREAKERS AND THE 800-AMP TIE CIRCUIT BREAKER, THE CONDUCTORS BETWEEN THEM AND THE REQUIRED PULLBOXES, WIREWAYS AND SUPPORT SYSTEM AS INDICATED ON SHEET E-501.
30. CONNECT THE LOAD SIDES OF THE 400-AMP AND 1200-AMP BREAKERS TO THE NEW FEEDERS BEING PROVIDED ON THE OPERATING LEVEL AS INDICATED ON THE ONE-LINE DIAGRAM ON SHEET E-501.
31. CONNECT THE SUPPLY SIDE OF THE 800-AMP BREAKER TO THE EXISTING FEEDER CONDUCTORS FROM LOAD CENTER LC3, CIRCUIT LC-3-51.

PHASE 4: ENERGIZE THE NEW MAIN CIRCUIT BREAKERS TO FEED MCC1 AND MCC2

32. TURN THE TEMPORARY 400A DISCONNECT SWITCH LOCATED ON THE DECK TO "OFF" AND LOTO.
33. AT THE GENERATOR, SWITCH THE AUTOMATIC TRANSFER SWITCH FROM NORMAL POWER TO EMERGENCY POWER (THE GENERATOR SHALL BE USED TO KEEP MCC1 ENERGIZED FOR A MAXIMUM OF 30 MINUTES).
34. DISCONNECT TEMPORARY 800-AMP TIE SWITCH FROM INCOMING FEEDERS FROM LC-3-51.
35. AT LOAD CENTER LC3, REMOVE LOTO AND TURN "ON" CIRCUIT BREAKER LC-3-51 THAT FEEDS THE NEW 800-AMP MAIN AND 400-AMP CIRCUIT BREAKERS. TURN ON THE 800-AMP MAIN AND 400-AMP CIRCUIT BREAKERS AT PUMPWELL 3.
36. AT THE GENERATOR, SWITCH THE AUTOMATIC TRANSFER SWITCH FROM EMERGENCY POWER BACK TO NORMAL POWER.
37. DE-ENERGIZE THE EXISTING RELOCATED (TEMPORARILY INSTALLED) 1200-AMP BREAKER. AT LOAD CENTER LC3, TURN OFF AND LOTO CIRCUIT BREAKER LC-3-15.
38. DISCONNECT THE EXISTING FEEDER FROM THE SUPPLY SIDE OF THE 1200-AMP MAIN FUSE INSIDE MCC2. CONNECT THE NEW FEEDER TO THE SUPPLY SIDE OF THE 1200-AMP MAIN FUSE INSIDE MCC2.
39. TURN THE 800-TIE BREAKER TO "ON" TO TEMPORARILY FEED MCC2 (FROM CIRCUIT LC-3-51).
40. CONNECT THE SUPPLY SIDE OF THE NEW 1200-AMP CIRCUIT BREAKER TO THE INCOMING FEEDERS FROM LC-3-15.
41. TURN THE 800-TIE BREAKER TO "OFF".
42. AT LOAD CENTER LC3, REMOVE LOTO AND TURN ON CIRCUIT BREAKER LC-3-15. TURN ON THE NEW 1200-AMP CIRCUIT BREAKER AT PUMPWELL #3.
43. REMOVE THE EXISTING (TEMPORARILY INSTALLED) 1200-AMP BREAKER, 800-AMP TIE SWITCH AND TEMPORARY FEEDERS.
44. REMOVE THE EXISTING CORRODED PULL BOX, CONDUCTORS, CONDUITS ON LEVEL 2 (FROM THE EXISTING LOCATION OF THE MAIN CIRCUIT BREAKERS TO MCC1 AND MCC2) AS INDICATED ON DRAWINGS ED102 AND ED501.
45. REMOVE TEMPORARY FEEDERS AND TEMPORARY 400-AMP DISCONNECT SWITCH. REMOVE PORTABLE POWER CABLES FROM NORTH GALLERY 1AN AND RETURN TO THE GOVERNMENT.

GOVERNING REGULATIONS

BUILDING CODES
UNIFIED FACILITIES CRITERIA (UFC) 1-200-01 DESIGN: GENERAL BUILDING REQUIREMENTS, JULY 1, 2013

2012 INTERNATIONAL BUILDING CODE (IBC)
2012 INTERNATIONAL EXISTING BUILDING CODE (IEBC)

ELECTRICAL CODE
2014 NFPA 70, NATIONAL ELECTRICAL CODE

LIFE SAFETY CODES
2012 NFPA 101, LIFE SAFETY CODE

SYM	DESCRIPTION	DATE	APPR
	FINAL SUBMISSON	JAN 07, 2015	PFD

STATE OF MAINE — DALE C. LINCOLN, II — No. 10443 — LICENSED PROFESSIONAL ENGINEER — 1-9-15

OAK POINT ASSOCIATES — ARCHITECTURE ■ ENGINEERING ■ PLANNING — A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SEE G-001 FOR DDCB BLOCK
SATISFACTORY TO DATE 01/07/15
DES DCL DRW BPD CHK WRW
PM/DM R C PANTEL
BRANCH MANAGER AMIN BAHROUR
CHIEF ENG/ARCH LCDR J ROCHE
FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PWD-MAINE PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME
NAVAL SHIPYARD KITTERY, ME
DRY DOCK #3 PUMP WELL REPAIRS
ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

MAXIMO No:
EPROJECT NO.: 1332591
CONSTR. CONTR. NO. N40085-15-C-6109
NAVFAC DRAWING NO. 12686324
SHEET 56 OF 66
E-001 DD3-14-715

DRAWFORM REVISION: 10 MARCH 2009

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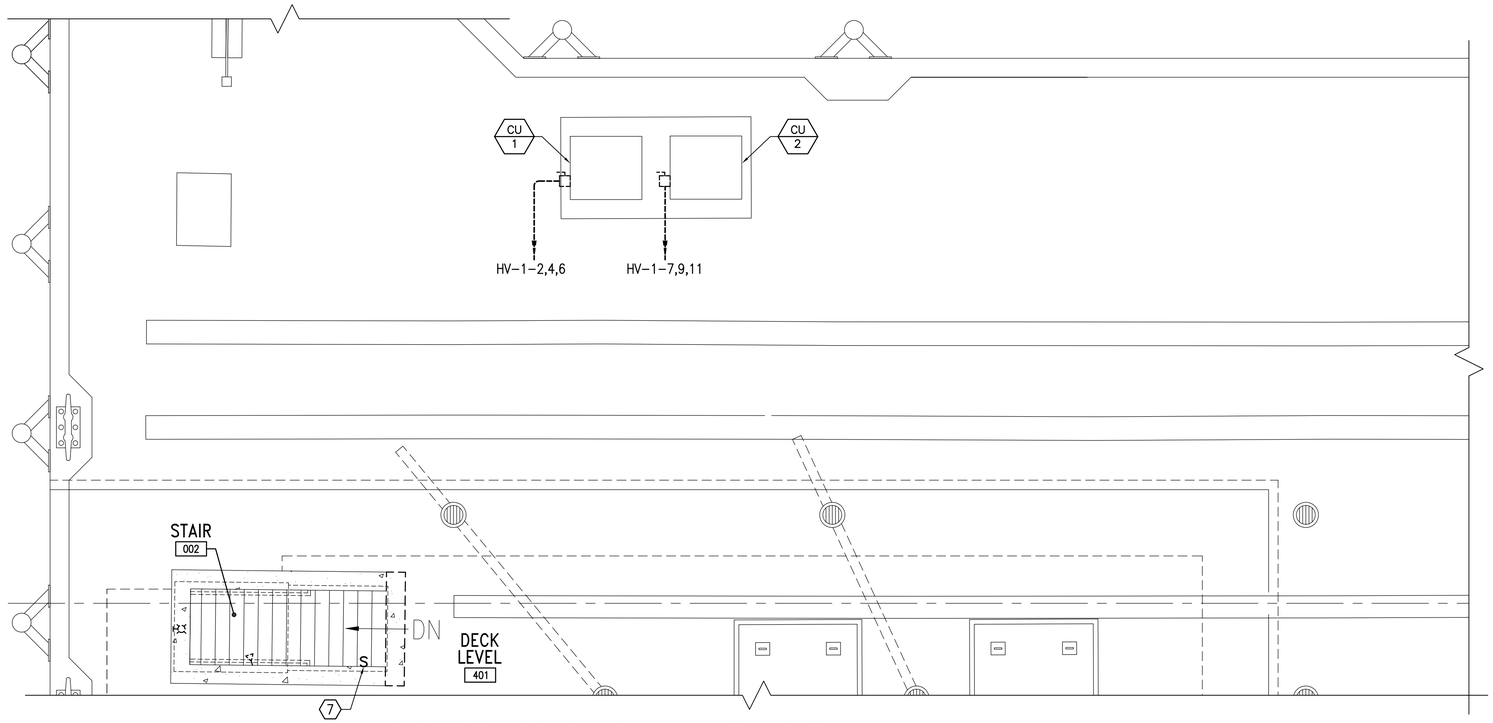
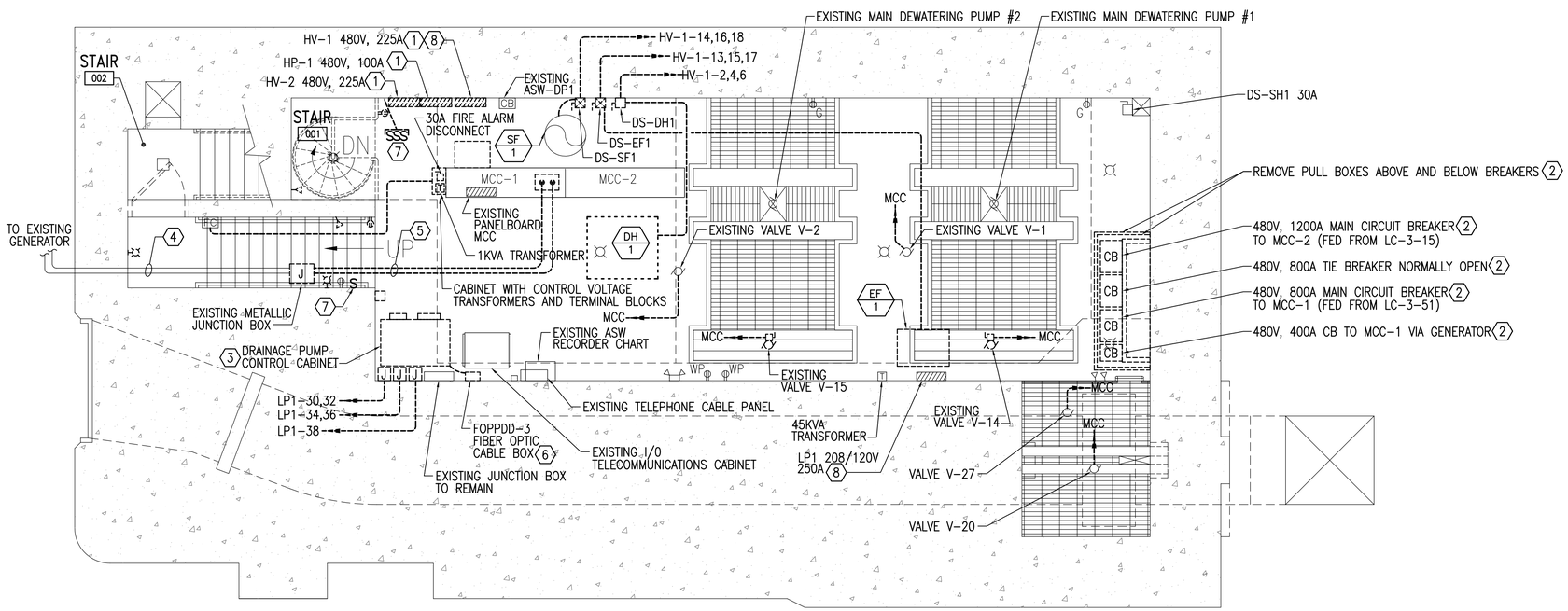


ELECTRICAL REMOVALS PLAN - DECK LEVEL (C3)

SCALE: 1/4"=1'-0" CD101, ED101



ELECTRICAL REMOVALS PLAN - OPERATING LEVEL (A3)

SCALE: 1/4"=1'-0" ED101

GENERAL SHEET NOTE

1. REFER TO SHEET ED501 FOR REMOVALS ONE-LINE DIAGRAM.
2. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

REMOVALS KEYNOTES

1. REMOVE EXISTING PANELBOARD.
2. REFER TO SHEET E-001 FOR SEQUENCE NOTES.
3. REMOVE AND RELOCATE EXISTING DRAINAGE PUMP CONTROL CABINET. REFER TO SHEET E-101 FOR LOCATION. OUTAGE SHALL BE KEPT TO A MAXIMUM OF 4 HOURS.
4. EXISTING TWO (2) 4" PVC CONDUITS AND CONDUCTORS TO EXISTING GENERATOR SHALL REMAIN.
5. REMOVE TWO (2) EXISTING 4" RGS CONDUITS AND CONDUCTORS FROM MCC-1 TO EXISTING METALLIC JUNCTION BOX.
6. REMOVE AND RELOCATE EXISTING FIBER OPTIC CABLE BOX WITH 1" FLEX CONDUIT AND CABLE (TO DRAINAGE PUMP CONTROL PANEL). REFER TO SHEET E-101 FOR LOCATION.
7. REMOVE SWITCH(ES).
8. PROVIDE TEMPORARY POWER TO EXISTING (TO REMAIN) PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

SYM	DESCRIPTION	DATE	APPR
FINAL SUBMISSION		JAN 07, 2015	PFD

STATE OF MAINE DALE C. LINCOLN, II No. 10443 LICENSED PROFESSIONAL ENGINEER 1-9-15

OAK POINT ASSOCIATES
ARCHITECTURE • ENGINEERING • PLANNING
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SEE G-001 FOR DDCB BLOCK
SATISFACTORY TO DATE 01/07/15
DES DCL DRW BPD CHK WRW
PM/DM R C PANTEL
BRANCH MANAGER AMIN BAHROUR
CHIEF ENG/ARCH LCDR J ROCHE
FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

ELECTRICAL REMOVALS PLANS – OPERATING AND DECK LEVELS

MAXIMO No:
EPROJECT NO.: 1332591
CONSTR. CONTR. NO. N40085-15-C-6109
NAVFAC DRAWING NO. 12686325
SHEET 57 OF 66
ED101 DD3-14-716

DRAWFORM REVISION: 10 MARCH 2009

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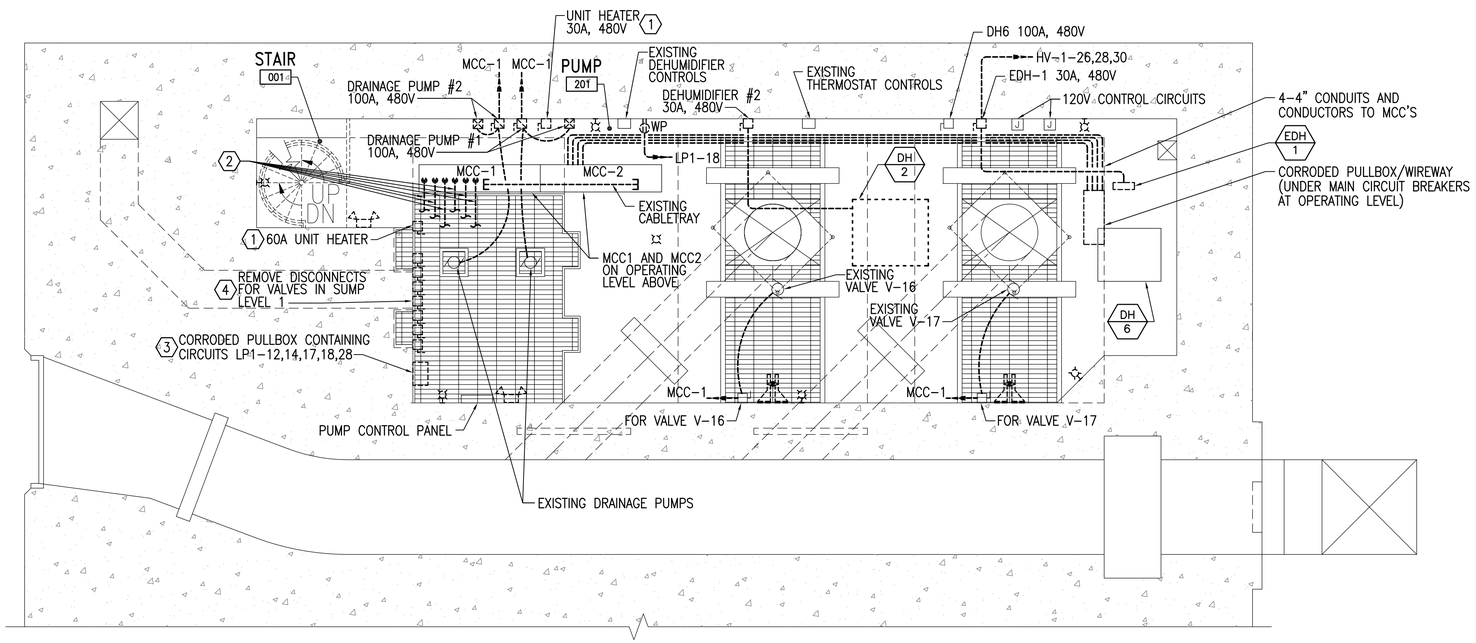
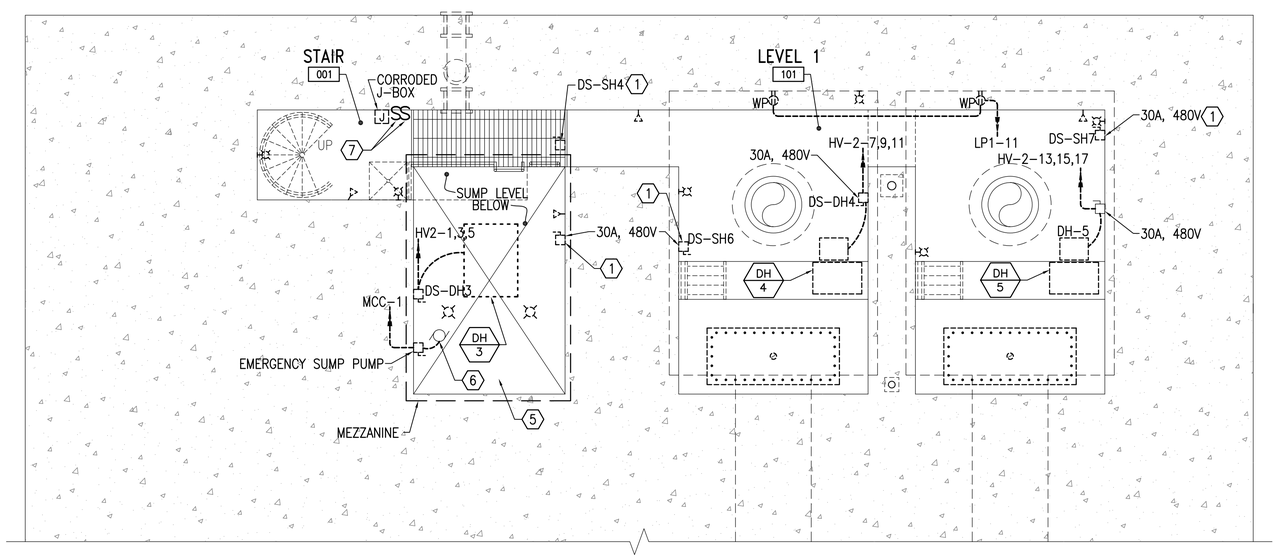


ELECTRICAL REMOVALS CONDITIONS - LEVEL 2

SCALE: 1/4"=1'-0" ED101 C3



ELECTRICAL REMOVALS PLAN - LEVEL 1

SCALE: 1/4"=1'-0" ED102 A3

REMOVALS NOTE

1. REMOVE EXISTING LIGHTING FIXTURES AND ASSOCIATED SWITCHES, WIRING AND CONDUIT BACK TO EXISTING SOURCE PANELBOARD LP1 LOCATED ON THE OPERATING LEVEL.
2. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

REMOVALS KEYNOTES

1. REMOVE EXISTING DISCONNECT SWITCH AND ASSOCIATED CONDUCTORS AND CONDUIT BACK TO EXISTING SOURCE PANELBOARD HV-2 OR HP-1 ON OPERATING LEVEL (EXISTING DISCONNECT SWITCH NO LONGER IN USE. EXISTING SWITCH FORMERLY FED REMOVED UNIT SUMP/HEATERS).
2. REMOVE EXISTING WIRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEET E-602 FOR PANELBOARD SCHEDULE.
3. REMOVE EXISTING PULL BOX AND ASSOCIATED WIRING AND CONDUIT FROM DEVICES BACK TO EXISTING SOURCE PANELBOARD LP1 LOCATED ON THE OPERATING LEVEL. REFER TO SHEET E-602 FOR PANELBOARD SCHEDULE.
4. EXISTING VALVES (V-3, V-4, V-7, V-8, V-12, V-13, AND V-21 ARE LOCATED IN SUMP LEVEL) FED FROM EXISTING PANELBOARD HP-1. REMOVE ASSOCIATED WIRING AND CONDUIT FROM VALVES THRU DISCONNECT SWITCHES AND TO PANELBOARD HP-1. VALVES ARE LOCATED IN THE SUMP LEVEL (BELOW).
5. EXISTING VALVES V-3, V-4, V-7, V-8, V-12, V-13, AND V-21 (FED FROM PANELBOARD HP-1) ARE LOCATED ON SUMP LEVEL (BELOW).
6. EXISTING EMERGENCY SUMP PUMP (FED FROM MCC-1 PANELBOARD).
7. REMOVE SWITCHES.

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

SYM	DESCRIPTION	DATE	APPR
FINAL SUBMISSION		JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE DALE C. LINCOLN, II No. 10443 LICENSED PROFESSIONAL ENGINEER 1-9-15

OAK POINT ASSOCIATES ARCHITECTURE • ENGINEERING • PLANNING

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES DCL DRW RSW CHK WRW

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVAL SHIPYARD

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

ELECTRICAL REMOVALS PLANS – LEVEL 1 AND LEVEL 2

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686326

SHEET 58 OF 66

ED102 DD3-14-717

DRAWFORM REVISION: 10 MARCH 2009

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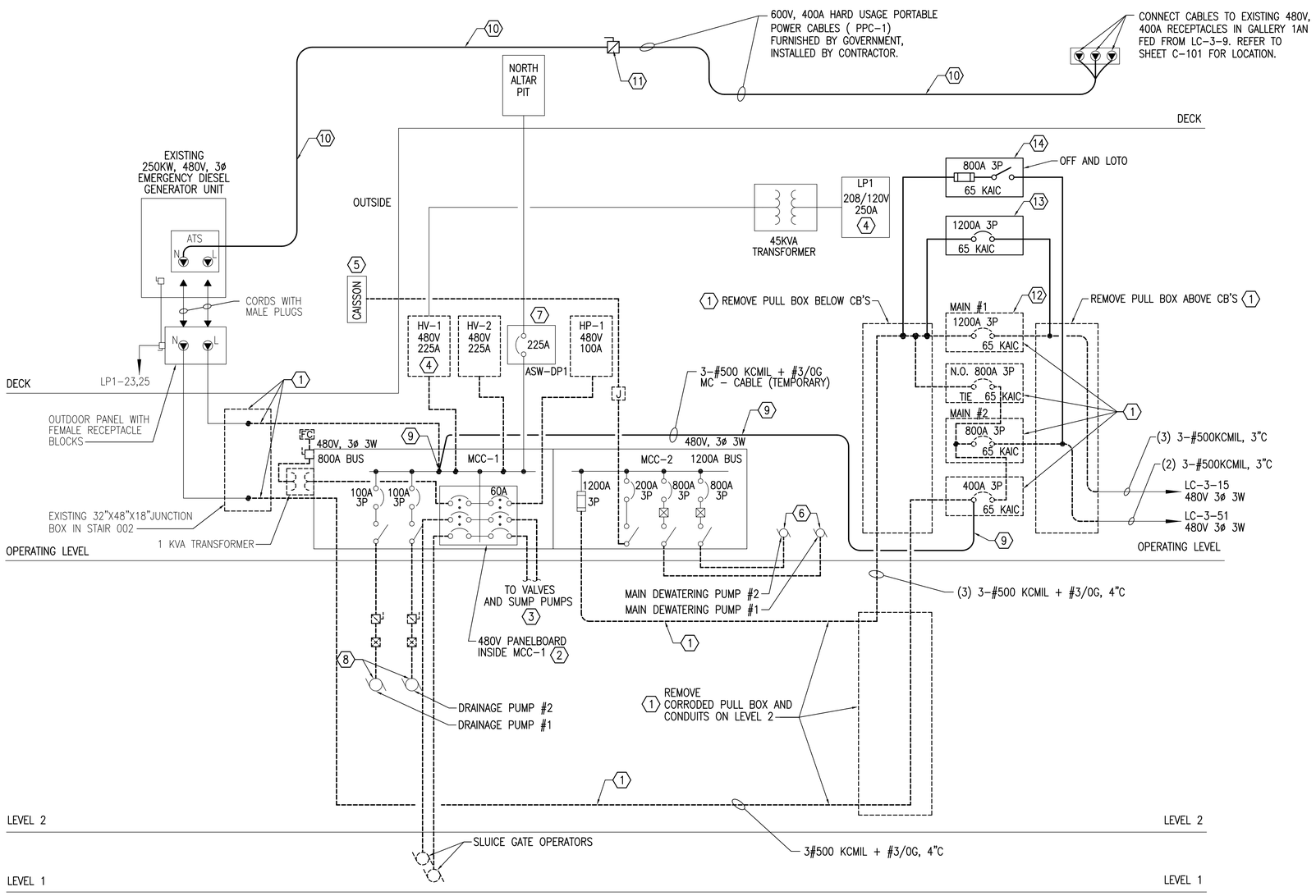

POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS

NOT TO SCALE

B3

KEYNOTES

1. REFER TO SHEET E-001 FOR SEQUENCING NOTES.
2. REFER TO PANELBOARD SCHEDULE ON SHEET E-602.
3. REMOVE EXISTING WIRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEET E-602 FOR PANELBOARD SCHEDULE AND SHEETS ED101 AND ED102 FOR EQUIPMENT LOCATIONS.
4. PROVIDE TEMPORARY POWER FOR EXISTING PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.
5. APPROXIMATE DISTANCE FROM MCC-1 TO CAISSON IS 50'±.
6. ONLY ONE PUMP SHALL BE DOWN AT A TIME. ONE PUMP SHALL BE OPERATIONAL AT ALL TIMES.
7. ASW IN ALTAR PIT SHALL REMAIN OPERATIONAL.
8. TWO DRAINAGE PUMPS SHALL BE OPERATIONAL AT ALL TIMES.
9. PROVIDE TEMPORARY CONNECTION BETWEEN 400A CIRCUIT BREAKER AND MAIN LUGS TO MCC-1 (PRIOR TO THE REMOVAL OF EXISTING JUNCTION BOX IN STAIR 002 AND THE FEEDERS BETWEEN THIS BOX AND MCC-1). REFER TO SEQUENCING NOTES ON SHEET E-001.
10. PROVIDE TEMPORARY POWER FOR MCC-1. REFER TO SEQUENCING NOTES ON SHEET E-001.
11. PROVIDE A TEMPORARY 400A FUSIBLE DISCONNECT SWITCH AND TEMPORARY SUPPORT SYSTEM.
12. REMOVE AND SALVAGE FOR REUSE. REFER TO SEQUENCING NOTES ON SHEET E-001.
13. TEMPORARILY RELOCATE EXISTING CIRCUIT BREAKER. PROVIDE TEMPORARY SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCEING NOTES ON SHEET E-001.
14. PROVIDE TEMPORARY TIE SWITCH, FREE STANDING SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCING NOTES ON SHEET E-001.

SYM	DESCRIPTION	DATE	APPR.
FINAL SUBMISSION		JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE — DALE C. LINCOLN, II No. 10443 — LICENSED PROFESSIONAL ENGINEER — 1-9-15

OAK POINT ASSOCIATES — ARCHITECTURE • ENGINEERING • PLANNING

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES DCL | DRW RSW | CHK WRW

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

ELECTRICAL REMOVALS - ONE-LINE DIAGRAM

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686327

SHEET 59 OF 66

ED501 | DD3-14-718

DRAWFORM REVISION: 10 MARCH 2009

12 Jan, 2015 - 9:40am
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PANELBOARD SCHEDULE HV-1 (REMOVE EXISTING PANELBOARD)

CKT NO	AMPS PER PHASE A	AMPS PER PHASE B	AMPS PER PHASE C	DESCRIPTION	LOAD TYPE	CKT BKR TRIP	CKT BKR POLE	CKT BKR TRIP	CKT BKR POLE	LOAD TYPE	DESCRIPTION	AMPS PER PHASE A	AMPS PER PHASE B	AMPS PER PHASE C	CKT NO
1				DH-6	–	90	3	50	3	–	DH-1A, CU-1				2
3															4
5															6
7				DH-2A, CU-2	–	50	3	–	–	–	SPACE				8
9															10
11															12
13				EF-1 3 HP	–	20	3	20	3	–	SF-1 3 HP				14
15															16
17															18
19				40 FOOT LIGHT POLE	–	20	3	60	3	–	LP-1 (1)				20
21															22
23															24
25				–	–	30	3	30	3	–	EDH-1				26
27															28
29															30

TOTAL/PHASE

VOLTS: 480V, 3 PHASE, 3 WIRE
MCB: ☒ MCB AMPS: 200
MLO: ☐ BUS AMPS: 225
FAULT AMPS: 25,000

DESIGNATION: HV-1
LOCATION: OPERATING LEVEL
MOUNTING: SURFACE

PANELBOARD SCHEDULE HV-2 (REMOVE EXISTING PANELBOARD)

CKT NO	AMPS PER PHASE A	AMPS PER PHASE B	AMPS PER PHASE C	DESCRIPTION	LOAD TYPE	CKT BKR TRIP	CKT BKR POLE	CKT BKR TRIP	CKT BKR POLE	LOAD TYPE	DESCRIPTION	AMPS PER PHASE A	AMPS PER PHASE B	AMPS PER PHASE C	CKT NO
1				DH-3	–	20	3	20	3	–	ELECTRIC UNIT HEATER PUMP 2 AREA				2
3															4
5															6
7				DH-4	–	30	3	20	3	–	ELECTRIC UNIT HEATER SUMP PUMP AREA				8
9															10
11															12
13				DH-5	–	30	3	20	3	–	SPARE				14
15															16
17															18
19				SPARE	–	20	3	20	3	–	SPARE				20
21															22
23															24
25				SPARE	–	20	1	–	–	–	SPACE				26
27				SPACE	–	–	–	–	–	–	SPACE				28
29				SPACE	–	–	–	–	–	–	SPACE				30
31				SPACE	–	–	–	–	–	–	SPACE				32
33				SPACE	–	–	–	–	–	–	SPACE				34
35				SPACE	–	–	–	–	–	–	SPACE				36
37				SPACE	–	–	–	–	–	–	SPACE				38
39				SPACE	–	–	–	–	–	–	SPACE				40
41				SPACE	–	–	–	–	–	–	SPACE				42

TOTAL/PHASE

VOLTS: 480, 3 PHASE, 3 WIRE
MCB: ☒ MCB AMPS: 175
MLO: ☐ BUS AMPS: 225
FAULT AMPS: 35,000

DESIGNATION: HV-2
LOCATION: OPERATING LEVEL
MOUNTING: SURFACE

PANELBOARD SCHEDULE HP-1 (REMOVE EXISTING PANELBOARD)

CKT NO	AMPS PER PHASE A	AMPS PER PHASE B	AMPS PER PHASE C	DESCRIPTION	LOAD TYPE	CKT BKR TRIP	CKT BKR POLE	CKT BKR TRIP	CKT BKR POLE	LOAD TYPE	DESCRIPTION	AMPS PER PHASE A	AMPS PER PHASE B	AMPS PER PHASE C	CKT NO
1				V-3	–	20	3	20	3	–	V-4				2
3															4
5															6
7				V-8	–	20	3	20	3	–	V-13				8
9															10
11															12
13				V-7	–	20	3	20	3	–	V-12				14
15															16
17															18
19				V-21 (LOCKED OUT)	–	20	3	40	3	–	SUMP PUMP				20
21															22
23															24
25				OPERATION FLOOR HEAT WALL UNIT HEATERS	–	20	3	20	3	–	PUMP LEVEL WALL UNIT HEATERS				26
27															28
29															30
31				OPERATION FLOOR HEAT WALL UNIT HEATERS	–	20	3	20	3	–	SUMP LEVEL WALL UNIT HEATERS				32
33															34
35															36
37				SPACE	–	–	–	20	3	–	SUMP LEVEL WALL UNIT HEATERS				38
39															40
41															42

TOTAL/PHASE

VOLTS: 480, 3 PHASE, 3 WIRE
MCB: ☒ MCB AMPS: 60
MLO: ☐ BUS AMPS: 60
FAULT AMPS: 25,000

DESIGNATION: HP-1
LOCATION: OPERATING LEVEL
MOUNTING: SURFACE

REMOVALS KEYNOTE

(1) PROVIDE TEMPORARY POWER TO EXISTING (TO REMAIN) PANELBOARD LP1 BEFORE REMOVING PANELBOARD HV-1.

GENERAL SHEET NOTE

1. CONFIRM AND LABEL EXISTING CIRCUITS.
2. ELECTRICAL SYSTEMS WORK SHALL BE COMPLETED ONE UNIT AT A TIME.

STM	DESCRIPTION	DATE	APPR.
	FINAL SUBMISSION	JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE — DALE C. LINCOLN, II — No. 10443 — LICENSED PROFESSIONAL ENGINEER — 1-9-15

OAK POINT ASSOCIATES — ARCHITECTS • ENGINEERS • LINCOLN, ME

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES DCL | DRW BPD | CHK WRW

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PWD-MANE
NAVAL SHIPYARD PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

EXISTING PANELBOARD SCHEDULES

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686328

SHEET 60 OF 66

ED601 | DD3-14-719

DRAWFORM REVISION: 10 MARCH 2009

12 Jan, 2015 – 10:06am
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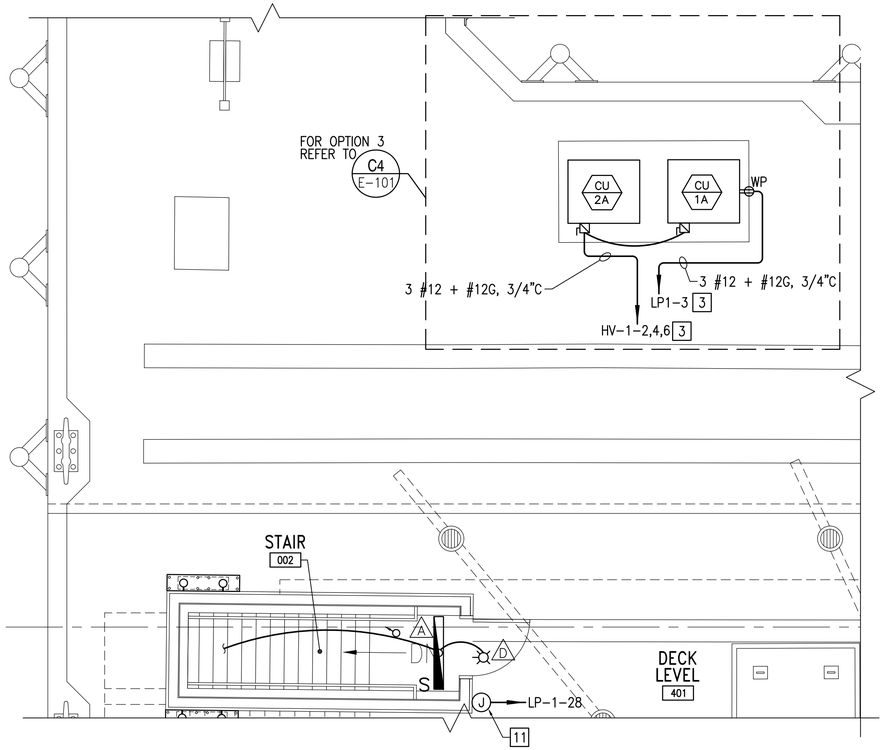
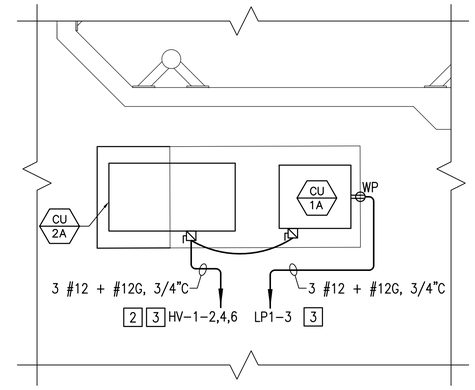


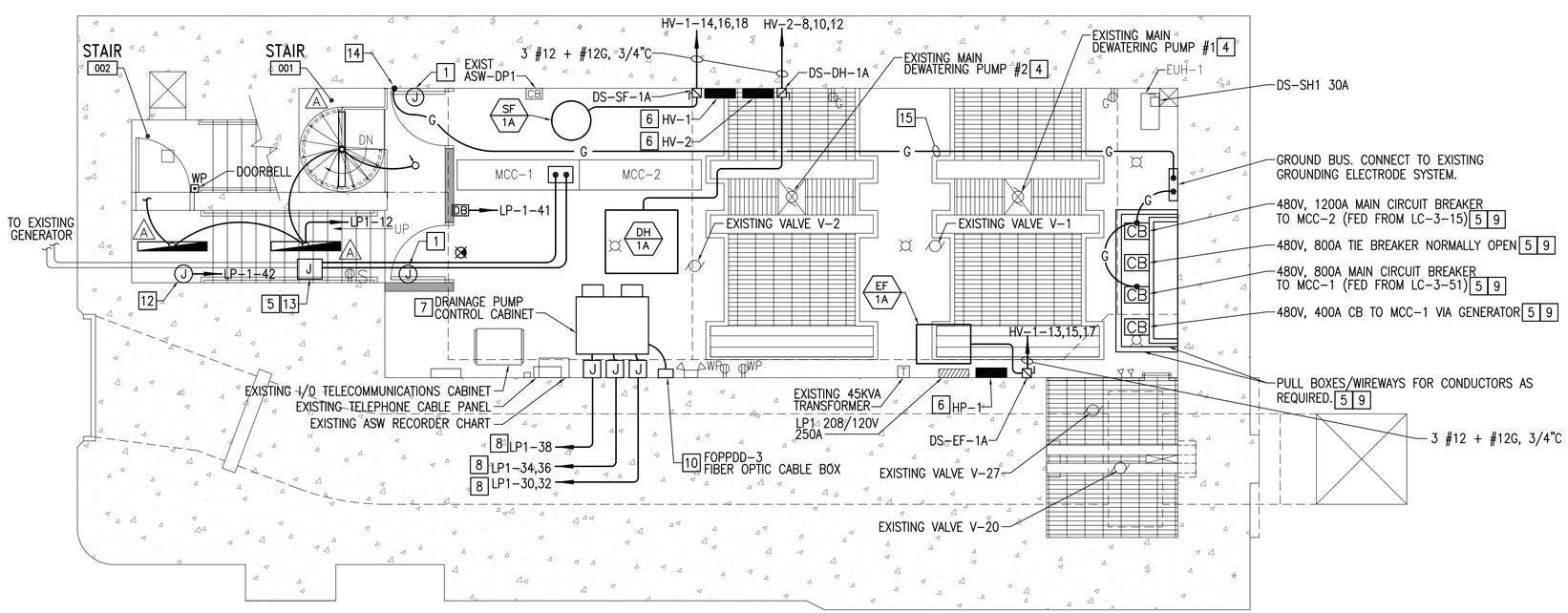
ELECTRICAL PLAN - DECK LEVEL

SCALE: 1/4"=1'-0" E-101 C3



OPTION 3 - DECK LEVEL ELECTRICAL PLAN - DECK LEVEL

SCALE: 1/4"=1'-0" E-101 C4



ELECTRICAL PLAN - OPERATING LEVEL

SCALE: 1/4"=1'-0" E-101 A3

GENERAL SHEET NOTE

1. CONNECT EXIT SIGNS TO LP1-40.
2. UNLESS OTHERWISE INDICATED, CONDUIT SHALL BE PVC, SCHEDULE 80. FOR CONDUIT SIZE 1" OR GREATER, MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 4 FEET.
3. ELECTRICAL EQUIPMENT ENCLOSURES, WIREWAYS, PULLBOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE NEMA 4X.
4. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

KEYNOTES

1. PROVIDE CONNECTION FROM MAGNETIC DOOR HOLDER TO LP1-39.
2. PROVIDE UNDER OPTION 3 ONLY.
3. REFER TO SHEET C-101 FOR ROUTING. PROVIDE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT WITHIN CONTAINMENT PIPE.
4. OVERHAUL EXISTING 350 HP, 480V, 3-PHASE MOTOR OF EXISTING DEWATERING PUMP.
5. REFER TO SHEET E-001 FOR SEQUENCING NOTES.
6. REFER TO SHEET E-601 FOR PANELBOARD SCHEDULES.
7. REINSTALL EXISTING DRAINAGE PUMP CONTROL CABINET. OUTAGE SHALL BE KEPT TO A MAXIMUM OF 4 HOURS. RECONNECT EXISTING CONTROL WIRING.
8. RELOCATE EXISTING BRANCH CIRCUIT ASSOCIATED WITH CONTROL CABINET.
9. REFER TO DETAIL A3 ON SHEET E-501 FOR CIRCUIT BREAKER INSTALLATION DETAIL.
10. REINSTALL EXISTING FIBER OPTIC CABLE BOX AND CABLING TO DRAINAGE PUMP CONTROL PANEL.
11. PROVIDE POWER TO HEATER IN FIRE ALARM ANNUNCIATOR PANEL.
12. PROVIDE POWER TO FIRE ALARM CONTROL PANEL.
13. REFER TO ONE-LINE DIAGRAM ON SHEET E-501.
14. ATTACH #4/0 GROUNDING ELECTRODE CONDUCTOR TO EXISTING GROUNDING ELECTRODE SYSTEM.
15. #4/0 GROUNDING ELECTRODE CONDUCTOR IN 1-1/4"C. ATTACH TO WALL.

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

SYM	DESCRIPTION	DATE	APPR
FINAL SUBMISSION		JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE
DALE C. LINCOLN, II
No. 10443
LICENSED
PROFESSIONAL ENGINEER
1-9-15

OAK POINT ASSOCIATES
ARCHITECTURE • ENGINEERING • PLANNING
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES DCL DRW BPD CHK WRW

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME

NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

ELECTRICAL PLANS ~ OPERATING AND DECK LEVELS

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686329

SHEET 61 OF 66

E-101 DD3-14-720

DRAWFORM REVISION: 10 MARCH 2009

12 Jan, 2015 - 10:07am
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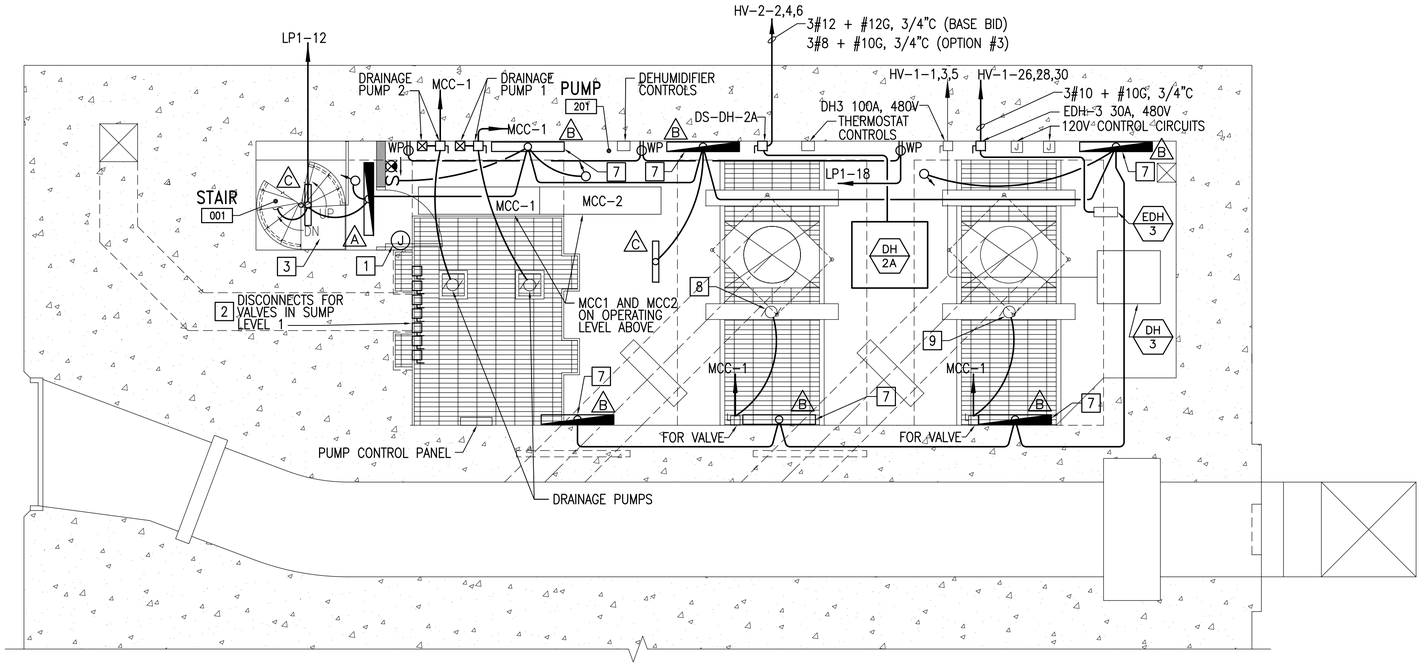
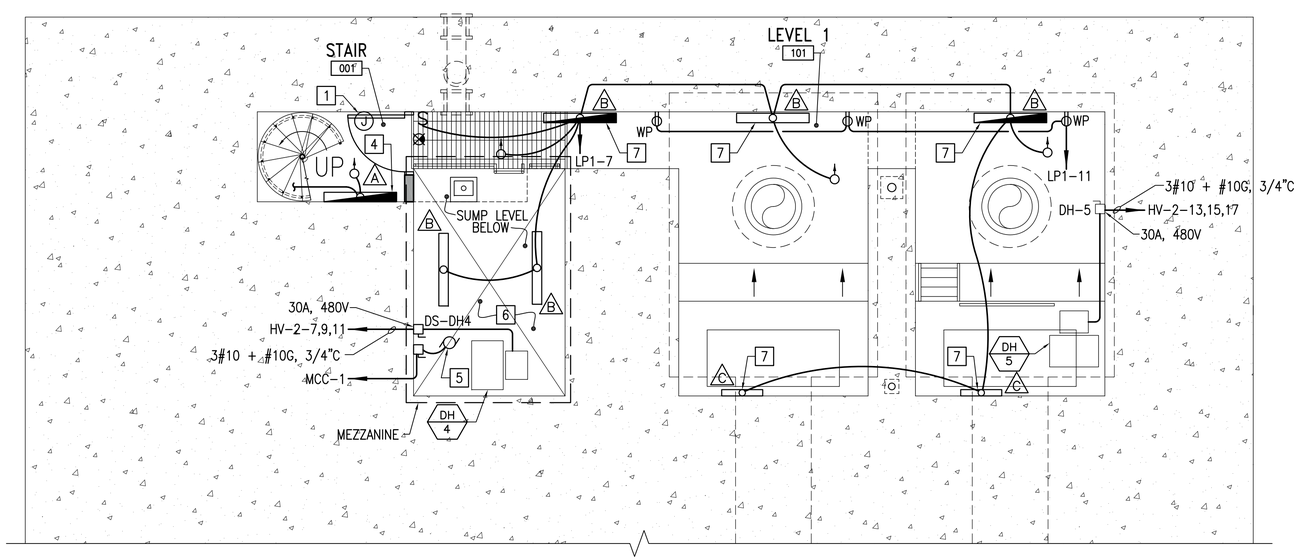


ELECTRICAL PLAN - LEVEL 2

SCALE: 1/4"=1'-0" E-102 C3



ELECTRICAL PLAN - LEVEL 1

SCALE: 1/4"=1'-0" E-102 A3

GENERAL SHEET NOTES

1. CONNECT EXIT SIGNS TO LP1-40.
2. UNLESS OTHERWISE INDICATED, CONDUIT SHALL BE PVC, SCHEDULE 80. FOR CONDUIT SIZE 1" OR GREATER, MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 4 FEET.
3. ELECTRICAL ENCLOSURES AND BOXES SHALL BE NEMA 4X.
4. STAIR LIGHT FIXTURES SHALL BE STEP DIMMED. OCCUPANCY SENSORS SHALL ACTIVATE FULL LIGHT LEVEL, WHEN NO OCCUPANCY IS SENSED, FIXTURE SHALL BE DIMMED TO 20% LIGHT LEVEL.
5. CONNECT THE EMERGENCY LED DRIVERS OF LIGHT FIXTURES TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHES OR OCCUPANCY SENSORS.
6. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

KEYNOTES

1. PROVIDE CONNECTION TO MAGNETIC DOOR HOLDER TO LP1-39.
2. FEED DISCONNECTS AND VALVES (V-3, V-4, V-7, V-8, V-12, V-13 AND V-21) FROM PANELBOARD HP-1. VALVES ARE LOCATED ON SUMP LEVEL (BELOW).
3. MOUNT TO UNDERSIDE OF LANDING.
4. WALL MOUNT HIGHER THAN DOOR.
5. EXISTING EMERGENCY SUMP PUMP ON SUMP LEVEL.
6. EXISTING VALVES V-3, V-4, V-7, V-8, V-12, V-13 AND V-21 ON SUMP LEVEL (BELOW).
7. WALL MOUNT FIXTURE.
8. EXISTING VALVE V-16.
9. EXISTING VALVE V-17.

GRAPHIC SCALE

1/4"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

SYM	DESCRIPTION	DATE	APPR
FINAL SUBMISSION		JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE DALE C. LINCOLN, II No. 10443 LICENSED PROFESSIONAL ENGINEER 1-9-15

OAK POINT ASSOCIATES

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES DCL DRW RSW CHK WRW

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

ELECTRICAL PLANS – LEVEL 1 AND LEVEL 2

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686330

SHEET 62 OF 66

E-102 DD3-14-721

DRAWFORM REVISION: 10 MARCH 2009

12 Jan, 2015 – 10:09am
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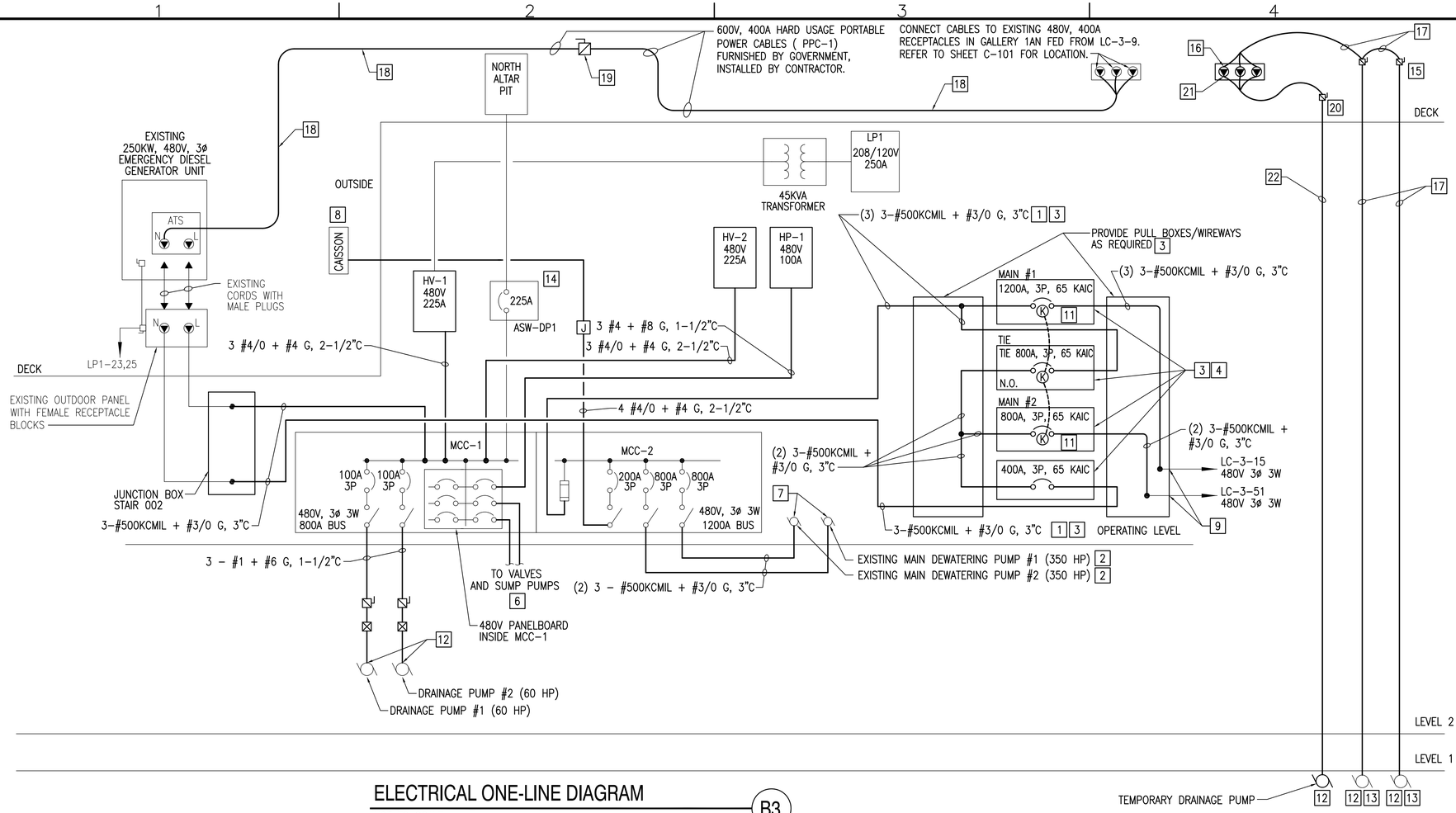
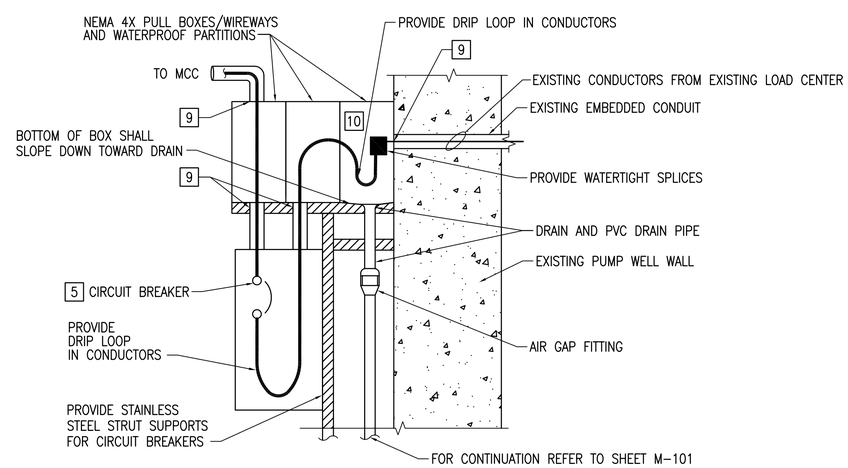


ELECTRICAL ONE-LINE DIAGRAM

NOT TO SCALE

B3



MAIN CIRCUIT BREAKER INSTALLATION DETAIL (TYP FOR 2)

NOT TO SCALE

E-101

A3

GENERAL SHEET NOTE

1. UNLESS OTHERWISE INDICATED, CONDUIT SHALL BE PVC, SCHEDULE 80. FOR CONDUIT SIZE 1" OR GREATER, MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 4 FEET.

KEYNOTES

1. PROVIDE FEEDERS ON OPERATING LEVEL.
2. OVERHAUL EXISTING 350HP ELECTRIC MOTOR OF EXISTING MAIN DEWATERING PUMP.
3. REFER TO SEQUENCING NOTES ON SHEET E-001.
4. REFER TO INSTALLATION DETAIL AND ELECTRICAL SERVICE CIRCUIT BREAKER NOTES, THIS SHEET.
5. PROVIDE BREAKER LISTED FOR SERVICE FROM BOTTOM LUGS. PROVIDE LABEL INDICATING THAT CIRCUIT BREAKER IS FED FROM THE BOTTOM.
6. PROVIDE WRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEET E-602 FOR PANELBOARD SCHEDULE AND SHEETS E-101 AND E-102 FOR EQUIPMENT LOCATIONS.
7. ONLY ONE PUMP SHALL BE DOWN AT A TIME. ONE PUMP SHALL BE OPERATIONAL AT ALL TIMES.
8. APPROXIMATE DISTANCE FROM CAISSON TO MCC-1 IS 50'±.
9. SEAL CONDUITS HERE AND AT GALLERY TO KEEP OUT MOISTURE/WATER.
10. BULKHEADS AND BOTTOM OF BOX SHALL BE WATERPROOF TO KEEP WATER IN FIRST COMPARTMENT.
11. PROVIDE #4/0G AND CONNECT TO EXISTING GROUNDING ELECTRODE SYSTEM.
12. TWO DRAINAGE PUMPS SHALL BE OPERATIONAL AT ALL TIMES.
13. OPTION 1: PROVIDE TEMPORARY POWER TO TEMPORARY DRAINAGE PUMPS.
14. ASW AT NORTH ALTAR PIT SHALL REMAIN OPERATIONAL AT ALL TIMES.
15. OPTION 1: PROVIDE TEMPORARY 100A FUSIBLE DISCONNECT SWITCHES (WITH TEMPORARY SUPPORT SYSTEM) FOR TEMPORARY DRAINAGE PUMPS.
16. OPTION 1: CONNECT TO EXISTING 400A RECEPTACLES IN GALLERY 1AN. EXISTING RECEPTACLES ARE FED FROM LOAD CENTER 3, CIRCUIT LC3-13.
17. OPTION 1: TEMPORARY 600V, 100A HARD USAGE PORTABLE POWER CABLES (PPC-2) FURNISHED BY GOVERNMENT, INSTALLED BY CONTRACTOR.
18. PROVIDE TEMPORARY POWER FOR MCC-1. REFER TO SEQUENCING NOTES ON SHEET E-001.
19. PROVIDE A TEMPORARY 400A FUSIBLE DISCONNECT SWITCH AND TEMPORARY SUPPORT SYSTEM.
20. PROVIDE TEMPORARY 100A FUSIBLE DISCONNECT SWITCH (WITH TEMPORARY SUPPORT SYSTEM) FOR TEMPORARY DRAINAGE PUMPS.
21. CONNECT TO EXISTING 400A RECEPTACLES IN GALLERY 1AN. EXISTING RECEPTACLES ARE FED FROM LOAD CENTER 3, CIRCUIT LC3-13.
22. TEMPORARY 600V, 100A HARD USAGE PORTABLE POWER CABLES (PPC-3) FURNISHED BY GOVERNMENT, INSTALLED BY CONTRACTOR.

ELECTRICAL SERVICE CIRCUIT BREAKER NOTES

1. TIE BREAKER IS NORMALLY OPEN.
2. TIE BREAKER IS MANUALLY OPERATED.
3. PRIOR TO OPERATING (CLOSING) TIE BREAKER, EITHER:
   A. MAIN #1 CIRCUIT BREAKER MUST BE MANUALLY TURNED OFF OR:
   B. MAIN #2 CIRCUIT BREAKER MUST BE TURNED OFF.
4. PROVIDE PHYSICAL BARRIER SYSTEM WITH KEY INTERLOCK SYSTEM TO ENSURE THAT TIE BREAKER REMAINS IN THE OFF POSITION UNLESS EITHER MAIN #1 OR MAIN #2 ARE TURNED OFF. BASIS OF DESIGN: KIRK KEY.
5. COORDINATE KEY INTERLOCK SYSTEM AND CIRCUIT BREAKER ENCLOSURE, BREAKER MANUFACTURER, FRAME SIZE AND BREAKER DETAILS.
6. PROVIDE SIGNAGE TO INDICATE ABOVE OPERATION.
7. PROVIDE LABELING TO INDICATE TWO SERVICES AND GENERATOR SOURCE.

STM	DESCRIPTION	DATE	APPR
FINAL SUBMISSION		JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE — DALE C. LINCOLN, II No. 10443 — LICENSED PROFESSIONAL ENGINEER — 1-9-15

OAK POINT ASSOCIATES — ARCHITECTURE • ENGINEERING • PLANNING

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES DCL DRW RSW CHK WRW

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC — PWD-MANE — NAVAL SHIPYARD — NAVAL FACILITIES ENGINEERING COMMAND — PORTSMOUTH NAVAL SHIPYARD - KITTERY, ME — KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

ELECTRICAL ONE-LINE DIAGRAM AND DETAIL

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686331

SHEET 63 OF 66

E-501 | DD3-14-722

DRAWFORM REVISION: 10 MARCH 2009

12 Jan, 2015 - 10:38am
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PANELBOARD SCHEDULE HV-1

CKT NO	AMPS PER PHASE A	B	C	DESCRIPTION	LOAD TYPE	CKT BKR TRIP	POLE	CKT BKR TRIP	POLE	LOAD TYPE	DESCRIPTION	AMPS PER PHASE A	B	C	CKT NO
1	67.1			DH-3 [1]	–	90	3	15	3	–	CU-1A, CU-2A (2 @1.5HP)	6			2
3		67.1											6		4
5			67.1											6	6
7	·			SPARE	–	15	3	–	–	–	SPACE	·			8
9		·											·		10
11			·											·	12
13	4.8			EF-1A 3 HP	–	15	3	15	3	–	SF-1A 3 HP	4.8			14
15		4.8											4.8		16
17			4.8											4.8	18
19	3			40 FOOT LIGHT POLE [1]	–	20	3	60	3	–	LP-1 [1]	48			20
21		3											48		22
23			3											48	24
25	·			–	–	30	3	30	3	–	EDH-3	21.6			26
27		·											21.6		28
29			·											21.6	30
	155.3	155.3	155.3	TOTAL/PHASE											

VOLTS: 480V, 3 PHASE, 3 WIRE
MCB: ☒ MCB AMPS: 200
MLO: ☐ BUS AMPS: 225
FAULT AMPS: 25,000

DESIGNATION: HV-1
LOCATION: OPERATING LEVEL
MOUNTING: SURFACE

PANELBOARD SCHEDULE HV-2

CKT NO	AMPS PER PHASE A	B	C	DESCRIPTION	LOAD TYPE	CKT BKR TRIP	POLE	CKT BKR TRIP	POLE	LOAD TYPE	DESCRIPTION	AMPS PER PHASE A	B	C	CKT NO
1	21			DH-2A [2]	–	40	3	20	3	–	DH-2A (BASE BID)	9			2
3		21											9		4
5			21											9	6
7	22.7			DH-4	–	30	3	20	3	–	DH-1A	9			8
9		22.7											9		10
11			22.7											9	12
13	22.7			DH-5	–	30	3	20	3	–	SPARE	·			14
15		22.7											·		16
17			22.7											·	18
19	·			SPARE	–	20	3	20	3	–	SPARE	·			20
21		·											·		22
23			·											·	24
25	·			SPARE	–	20	1	–	–	–	SPACE	·			26
27		·		SPACE	–	–	–	–	–	–	SPACE		·		28
29			·	SPACE	–	–	–	–	–	–	SPACE			·	30
31	·			SPACE	–	–	–	–	–	–	SPACE	·			32
33		·		SPACE	–	–	–	–	–	–	SPACE		·		34
35			·	SPACE	–	–	–	–	–	–	SPACE			·	36
37	·			SPACE	–	–	–	–	–	–	SPACE	·			38
39		·		SPACE	–	–	–	–	–	–	SPACE		·		40
41			·	SPACE	–	–	–	–	–	–	SPACE			·	42
	84.4	84.4	84.4	TOTAL/PHASE											

VOLTS: 480, 3 PHASE, 3 WIRE
MCB: ☒ MCB AMPS: 175
MLO: ☐ BUS AMPS: 225
FAULT AMPS: 35,000

DESIGNATION: HV-2
LOCATION: OPERATING LEVEL
MOUNTING: SURFACE

PANELBOARD SCHEDULE HP-1

CKT NO	AMPS PER PHASE A	B	C	DESCRIPTION	LOAD TYPE	CKT BKR TRIP	POLE	CKT BKR TRIP	POLE	LOAD TYPE	DESCRIPTION	AMPS PER PHASE A	B	C	CKT NO
1	7.6			V-3 [3]	–	20	3	20	3	–	V-4 [3]	7.6			2
3		7.6											7.6		4
5			7.6											7.6	6
7	7.6			V-8 [3]	–	20	3	20	3	–	V-13 [3]	7.6			8
9		7.6											7.6		10
11			7.6											7.6	12
13	7.6			V-7 [3]	–	20	3	20	3	–	V-12 [3]	7.6			14
15		7.6											7.6		16
17			7.6											7.6	18
19	7.6			V-21 (LOCKED OUT) [3]	–	20	3	40	3	–	SUMP PUMP [3]	21			20
21		7.6											21		22
23			7.6											21	24
25	9			OPERATION FLOOR HEAT WALL UNIT HEATERS	–	20	3	20	3	–	SPARE	·			26
27		9		[1]									·		28
29			9											·	30
31	9			OPERATION FLOOR HEAT WALL UNIT HEATERS	–	20	3	20	3	–	SPARE	·			32
33		9		[1]									·		34
35			9											·	36
37	·			SPACE	–	–	–	20	3	–	SPARE	·			38
39		·											·		40
41			·											·	42
	92.2	92.2	92.2	TOTAL/PHASE											

VOLTS: 480, 3 PHASE, 3 WIRE
MCB: ☒ MCB AMPS: 100
MLO: ☐ BUS AMPS: 125
FAULT AMPS: 25,000

DESIGNATION: HP-1
LOCATION: OPERATING LEVEL
MOUNTING: SURFACE

GENERAL SHEET NOTE

1. ELECTRICAL SYSTEMS WORK SHALL BE COMPLETED ONE UNIT AT A TIME.

KEYNOTES

1. EXISTING CIRCUIT. RELOCATE/EXTEND EXISTING WIRING AND CONDUIT FROM EXISTING PANELBOARD LOCATION SHOWN ON SHEET ED101 TO LOCATION SHOWN ON SHEET E-101.
2. PROVIDE UNDER OPTION 3 ONLY. PROVIDE BREAKER AS SPARE UNDER BASE BID.
3. PROVIDE WIRING AND CONDUIT TO EXISTING EQUIPMENT.

STM	DESCRIPTION	DATE	APPR
FINAL SUBMISSION		JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE DALE C. LINCOLN, II No. 10443 LICENSED PROFESSIONAL ENGINEER 1-9-15

OAK POINT ASSOCIATES
ARCHITECTURE • ENGINEERING • PLANNING
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 FOR DDCB BLOCK
SATISFACTORY TO DATE 01/07/15
DES DCL DRW BPD CHK WRW
PM/DM R C PANTEL
BRANCH MANAGER AMIN BAHROUR
CHIEF ENG/ARCH LCDR J ROCHE
FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PWD-MANE
NAVAL SHIPYARD
NAVAL FACILITIES ENGINEERING COMMAND
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

PANELBOARD SCHEDULES – 1

MAXIMO No:
EPROJECT NO.: 1332591
CONSTR. CONTR. NO. N40085-15-C-6109
NAVFAC DRAWING NO. 12686332
SHEET 64 OF 66
E-601 | DD3-14-723

DRAWFORM REVISION: 10 MARCH 2009

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EXISTING PANELBOARD SCHEDULE LP1 (EXISTING PANELBOARD)

CKT NO	AMPS PER PHASE A	B	C	DESCRIPTION	LOAD TYPE	CKT BKR TRIP	POLE	CKT BKR TRIP	POLE	LOAD TYPE	DESCRIPTION	AMPS PER PHASE A	B	C	CKT NO
1	·			REC – OPERATION FL N WALL	–	20	1	20	1	–	REC – OPERATOR FL N WALL	·			2
3		·		SPARE	–	20	1	20	1	–	REC – OPER FL S WALL FRIDGE		·		4
5			·	–	–	20	1	20	1	–	DP GRAPHICS			·	6
7	·			STAIRWAY LTS W/E LITES	–	20	1	20	1	–	OPERATOR FL EMERG LITES	·			8
9		·		HIGHWATER PANEL	–	20	1	20	1	–	FOXBORO CHART RECORDER		·		10
11			·	REC – SUMP FL WALL	–	20	1	20	1	–	2ND LEVEL EMERG LITES PUMP FLOOR			·	12
13	·			SPARE IN LG JB	–	20	1	20	1	–	SUMP FL LITES	·			14
15		·		I/O CAB VAC RELAY/ LEVEL SYS CAB	–	20	1	20	1	–	OPERATOR FL HVAC DUCT SMOKE		·		16
17			·	PUMP FL DH-6 CONTROL CIRC DUCT SMOKE	–	20	1	20	1	–	REC – WALL PUMP FL			·	18
19	·			COND UNIT A	–	15	2	15	2	–	COND UNIT B	·			20
21		·		↓	↓	↓	↓	↓	↓	↓	↓		·		22
23			·	GENERATOR	–	20	2	20	2	–	PUMP FL WALL LITES			·	24
25	·			↓	↓	↓	↓	↓	↓	↓	↓	·			26
27		·		SECURITY CAMERA ON DOCK	–	20	1	20	1	–	PUMP FL CIRC FANS		·		28
29			·	OPERATOR FLOOR LITES	–	30	2	30	2	–	VCA CONTROL CAB UPS			·	30
31	·			↓	↓	↓	↓	↓	↓	↓	↓	·			32
33		·		SPARE LG JB	–	20	1	30	2	–	VCA CONTROL CAB UPS		·		34
35			·	DBL DUPLEX OUTLET S WALL	–	20	1	↓	↓	↓	↓			·	36
37	·			COMPRESSOR CONTROL CAB	–	20	1	20	1	–	VCA CTRL CAB AC UNIT	·			38
39		·		SPARE	–	20	1	20	1	–	SPARE		·		40
41			·	SPARE	–	20	1	20	1	–	SPARE			·	42

TOTAL/PHASE

VOLTS: 120/208, 3 PHASE, 4 WIRE
MCB: ☒ MCB AMPS: 125
MLO: ☐ BUS AMPS: 250
FAULT AMPS: 10,000

DESIGNATION: LP1
LOCATION: .
MOUNTING: SURFACE

REVISED PANELBOARD SCHEDULE LP1 (EXISTING PANELBOARD) VIA HV-1-20,22,24

CKT NO	AMPS PER PHASE A	B	C	DESCRIPTION	LOAD TYPE	CKT BKR TRIP	POLE	CKT BKR TRIP	POLE	LOAD TYPE	DESCRIPTION	AMPS PER PHASE A	B	C	CKT NO
1	·			REC – OPERATION FL N WALL	–	20	1	20	1	–	REC – OPERATOR FL N WALL	·			2
3		·		SPARE	–	20	1	20	1	–	REC – OPER FL S WALL FRIDGE		·		4
5			·	–	–	20	1	20	1	–	DP GRAPHICS			·	6
7	2			**LEVEL 1 LIGHTS**	–	20	1	20	1	–	SPARE	·			8
9		·		HIGHWATER PANEL	–	20	1	20	1	–	FOXBORO CHART RECORDER		·		10
11			4.5	**REC – LEVEL 1 WALL**	–	20	1	20	1	–	**LEVEL 2 LIGHTS/STAIRS**			4	12
13	·			SPARE IN LG JB	–	20	1	20	1	–	SPARE	·			14
15		·		I/O CAB VAC RELAY/ LEVEL SYS CAB	–	20	1	20	1	–	OPERATOR FL HVAC DUCT SMOKE		·		16
17			·	PUMP FL DH-6 CONTROL CIRC DUCT SMOKE	–	20	1	20	1	–	**REC – WALL LEVEL 2**			4.5	18
19	·			**SPARE**	–	15	2	15	2	–	**SPARE**	·			20
21		·		↓	↓	↓	↓	↓	↓	↓	↓		·		22
23			10	GENERATOR	–	20	2	20	2	–	**SPARE**			·	24
25	10			↓	↓	↓	↓	↓	↓	↓	↓	·			26
27		5		SECURITY CAMERA ON DOCK	–	20	1	20	1	–	**FIRE ALARM ANNUNCIATOR HEATER**		3		28
29			21	OPERATOR FLOOR LITES	–	30	2	30	2	–	VCA CONTROL CAB UPS			17	30
31	21			↓	↓	↓	↓	↓	↓	↓	↓	17			32
33		·		SPARE LG JB	–	20	1	30	2	–	VCA CONTROL CAB UPS		17		34
35			·	DBL DUPLEX OUTLET S WALL	–	20	1	↓	↓	↓	↓			17	36
37	·			COMPRESSOR CONTROL CAB	–	20	1	20	1	–	VCA CTRL CAB AC UNIT	9.8			38
39		·		**MAGNETIC DOOR HOLDERS**	–	20	1	20	1	–	**EXIT SIGNS**		·		40
41			·	DOOR BELL	–	20	1	20	1	–	**FIRE ALARM CONTROL PANEL** [4]			4	42

TOTAL/PHASE

VOLTS: 120/208, 3 PHASE, 4 WIRE
MCB: ☒ MCB AMPS: 125
MLO: ☐ BUS AMPS: 250
FAULT AMPS: 10,000

DESIGNATION: LP1
LOCATION: .
MOUNTING: SURFACE

PANELBOARD SCHEDULE MCC (EXISTING PANELBOARD WITHIN MCC-1)

CKT NO	AMPS PER PHASE A	B	C	DESCRIPTION	LOAD TYPE	CKT BKR TRIP	POLE	CKT BKR TRIP	POLE	LOAD TYPE	DESCRIPTION	AMPS PER PHASE A	B	C	CKT NO
1	·			EXISTING FIRE ALARM PANEL [2][5]	–	20	3	20	3	–	MDP HEATERS [2][3]	·			2
3		·		↓	↓	↓	↓	↓	↓	↓	↓		·		4
5			·											·	6
7	·			V-2 [2][3]	–	20	3	60	3	–	HP-1 PANEL [2][3]	·			8
9		·		↓	↓	↓	↓	↓	↓	↓	↓		·		10
11			·											·	12
13	·			SAP (SOUTH ALTAR PIT)	–	100	3	20	3	–	V-20 [1][2][3]	11			14
15		·		↓	↓	↓	↓	↓	↓	↓	↓		11		16
17			·											11	18
19	7.6			EMERGENCY SUMP PUMP (SUMP LEVEL) [2][3]	–	20	3	20	3	–	(SPARE) (ON)	·			20
21		7.6		↓	↓	↓	↓	↓	↓	↓	↓		·		22
23			7.6											·	24
25	·			V-15 SLUICE GATE [1][2]	–	20	3	20	3	–	V-1 [2][3]	11			26
27		·		↓	↓	↓	↓	↓	↓	↓	↓		11		28
29			·											11	30
31	·			V-14 SLUICE GATE [2][5]	–	20	3	70	3	–	ELECTRICAL DUCT HEATER [2][3]	56			32
33		·		↓	↓	↓	↓	↓	↓	↓	↓		56		34
35			·											56	36
37	11			V-16 [2][3]	–	20	3	20	3	–	V-17 [2][3]	11			38
39		11		↓	↓	↓	↓	↓	↓	↓	↓		11		40
41			11											11	42

TOTAL/PHASE

VOLTS: 480V, 3 PHASE
MCB: ☒ MCB AMPS: 200
MLO: ☐ BUS AMPS: .
FAULT AMPS: 14,000

DESIGNATION: MCC
LOCATION: MCC-1
MOUNTING: MCC-1

GENERAL SHEET NOTE

1. ELECTRICAL WORK SHALL BE COMPLETED ONE CIRCUIT AT A TIME.

KEYNOTES

[1] EXISTING CIRCUIT BREAKER IS LOCKED OUT TAGGED OUT.

[2] REMOVE EXISTING WIRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEETS ED101 AND ED102 FOR EQUIPMENT LOCATIONS.

[3] PROVIDE WIRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEETS E-101 AND E-102 FOR EQUIPMENT LOCATIONS.

[4] CIRCUIT BREAKER SHALL BE RED AND LOCKABLE.

[5] RELABEL CIRCUIT BREAKER AS "SPARE"

STM	DESCRIPTION	DATE	APPR
	FINAL SUBMISSION	JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE
DALE C. LINCOLN, II
No. 10443
LICENSED PROFESSIONAL ENGINEER
1-9-15

OAK POINT ASSOCIATES
ARCHITECTURE • ENGINEERING • PLANNING
A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 FOR DDCB BLOCK
SATISFACTORY TO DATE 01/07/15
DES DCL DRW BPD CHK WRW
PM/DM R C PANTEL
BRANCH MANAGER AMIN BAHROUR
CHIEF ENG/ARCH LCDR J ROCHE
FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND
PORTSMOUTH NAVAL SHIPYARD – KITTERY, ME
NAVAL SHIPYARD KITTERY, ME
DRY DOCK #3 PUMP WELL REPAIRS
PANELBOARD SCHEDULES – 2

MAXIMO No:
EPROJECT NO.: 1332591
CONSTR. CONTR. NO. N40085-15-C-6109
NAVFAC DRAWING NO. 12686333
SHEET 65 OF 66
E-602 DD3-14-724

DRAWFORM REVISION: 10 MARCH 2009

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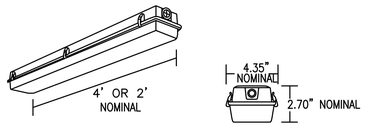


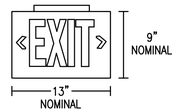
LUMINAIRE REQUIREMENTS:

1. HOUSING – MARINE GRADE HEAT TREATED ALUMNUM.
2. FINISH – BAKED WHITE ENAMEL FINISH.
3. LENS – 100% CLEAR ACRYLIC/DR OPTICAL DIFFUSER. STIPPLED INTERIOR SURFACES AND SMOOTH EXTERIOR. CLOSED CELL NEOPRENE GASKET WITH CAPTIVE NONMETALLIC, SNAP ACTION CAM LATCHES TO SECURE LENS TO HOUSING.
4. LAMPS – LED, 3500K
5. DRIVER – CONSTANT CURRENT DRIVER AT 530mA, 120–277V
6. CERTIFICATION – UL LISTED AND LABELED. SUITABLE FOR WET LOCATION.

A B C

WET LOCATION LED [1]

REVISED: NOVEMBER 2014 | LIGHTING PLATE: CUSTOM

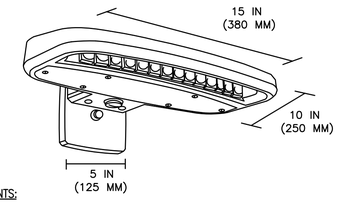


LUMINAIRE REQUIREMENTS:

1. HOUSING – HIGH–IMPACT, UV–STABILIZED, INJECTION–MOLDED THERMOPLASTIC. SINGLE OR DOUBLE–FACED AS INDICATED.
2. LETTERS/CHEVRONS – MINIMUM 6" HIGH WITH 3/4" STROKE. RED LETTERS AS INDICATED. PROVIDE CHEVRONS AS INDICATED EITHER LEFT, RIGHT OR BOTH DIRECTIONS AS INDICATED. CHEVRONS PUNCHED OUT THROUGH HOUSING AS REQUIRED.
3. EMERGENCY PACK – SOLID–STATE, CONSTANT–CURRENT TYPE BATTERY CHARGER WITH MAINTENANCE–FREE, NICKEL–CADMIUM BATTERY, AC–ON INDICATOR LAMP AND TEST SWITCH.
4. MOUNTING – UNIVERSAL MOUNTING KIT FOR CEILING, WALL OR END–OF–FIXTURE MOUNTING.
5. ILLUMINATION – PROVIDED BY RED, GREEN OR WHITE HIGH–OUTPUT LEDS INSIDE OF FIXTURE HOUSING. PROVIDE POLYSTYRENE DIFFUSER IN COLOR INDICATED WITH FREQUENCY–MATCHED SILKSCREEN COATING FOR MAXIMUM LED LIGHT OUTPUT.
6. CERTIFICATION – UL LISTED AND CERTIFIED FOR WET LOCATIONS.

LED EXIT SIGN

REVISED: AUGUST 2004 | LIGHTING PLATE: NL–63



LUMINAIRE REQUIREMENTS:

1. HOUSING – DIE–CAST OR EXTRUDED ALUMINUM WITH INTEGRAL PASSIVE COOLING MECHANISM. HEAT SINK SHALL BE INCORPORATED DIRECTLY INTO HOUSING OR DRIVER COMPARTMENT TO ENSURE MAXIMUM HEAT TRANSFER AND DISSIPATION.
2. FINISH – MULTI–STAGE PRE–TREATMENT, FINISHED WITH BAKED–ON POLYESTER POWDER COAT. FINISH SHALL PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117. STANDARD FINISH IS DARK BRONZE, WITH OTHER CUSTOM COLORS AVAILABLE.
3. POWER SUPPLY/LED DRIVER – CLASS 1 DRIVER SHALL OPERATE AT 120/277 VOLTS, 50/60 HZ, WITH OTHER VOLTAGES OPTIONAL; POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY SHALL BE 60 LM/W AT MAXIMUM 600mA OPERATING CURRENT.
4. LED OPTICAL ASSEMBLY – PRECISION MOLDED ACRYLIC LENS PROVIDED FOR MULTIPLE HIGH–POWERED LEDS PRODUCING NEMA TYPE III DISTRIBUTION OR AS OTHERWISE INDICATED. BUG UPLIGHT RATING OF U0, WITH GLARE RATING AS DETERMINED BY LIGHTING ZONE INSTALLED. MINIMUM COLOR RENDERING INDEX (CRI) SHALL BE 70 FOR CORRELATED COLOR TEMPERATURE (CCT) OF 4000–4500'K.
5. CERTIFICATION – UL AND/OR ETL LISTED FOR DAMP OR WET LOCATIONS AS INDICATED, AND RoHS COMPLIANT.
6. OPTIONS – VARIOUS LUMEN OUTPUT RATING AS INDICATED, PHOTOCELL, AND 0–10 VOLT DIMMING DRIVER.
7. OTHER – THE ABOVE SKETCH IS A NON–PROPRIETY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

D

LED WALL PACK

REVISED: JULY 2012 | LUMINAIRE PLATE: XL–17

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	SKETCH NO. & TYPE	DRAWING NO.	NUMBER AND TYPE OF LAMPS	VOLTAGE	W/VA	MOUNTING	MANUFACTURER	CATALOG NUMBER – BASIS OF DESIGN	NOTES
A	CUSTOM	EL701	LED	120V	–	SURFACE	LUMINAIRE LED	VPF44H0–40WHP–3500K–120–CP–WHT–WET	1, 2
B	CUSTOM	EL701	LED	120V	–	SURFACE	LUMINAIRE LED	VPF44H0–40WHP–3500K–120–CP–WHT–WET	1
C	CUSTOM	EL701	LED	120V	–	SURFACE	LUMINAIRE LED	VPF42H0–20WHP–3500K–120–CP–WHT–WET	–
D	XL–17	EL701	LED	120V	–	WALL	BEACON	TRV–D–24NB–55–5K–T2–UNV–PCE–BCB–BBY	
⊠	NL–63	EL701	LED–RED	120V	–	CEILING	DUAL LITE	SEWL–S–RW–E–4X	3

LIGHTING FIXTURE SCHEDULE NOTES:
1. PROVIDE EMERGENCY LED DRIVER WHERE INDICATED ON PLANS. CONNECT EMERGENCY DRIVER TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHES, OCCUPANCY SENSORS, ETC.
2. PROVIDE STEP DIMMING OPTION FOR STAIR LIGHT FIXTURES. OCCUPANCY SENSORS SHALL ACTIVATE FULL LIGHT LEVEL. WHEN NO OCCUPANCY IS SENSED, FIXTURE SHALL BE DIMMED TO 20% LIGHT LEVEL.
3. PLASTIC BODY, STENCIL FACE, RED DIFFUSER LENS.

DRAWING KEYNOTES

[1] EXTREME ENVIRONMENT FIXTURE LISTED FOR USE IN WET AND CORROSIVE CONDITIONS.

STM	DESCRIPTION	DATE	APPR.
	FINAL SUBMISSION	JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE
DALE C. LINCOLN, II
No. 10443
LICENSED
PROFESSIONAL ENGINEER
1-9-15

OAK POINT ASSOCIATES
ARCHITECTURE • ENGINEERING • PLANNING

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: SEE G–001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES KOA | DRW RSW | CHK DCL

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD–MAINE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD – KITTERY, ME
NAVAL SHIPYARD KITTERY, ME
DRY DOCK #3 PUMP WELL REPAIRS
LIGHTING FIXTURE SCHEDULE AND DETAILS

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085–15–C–6109

NAVFAC DRAWING NO. 12686334

SHEET 66 OF 66

EL701 | DD3-14-725

DRAWFORM REVISION: 10 MARCH 2009

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