LEGEND

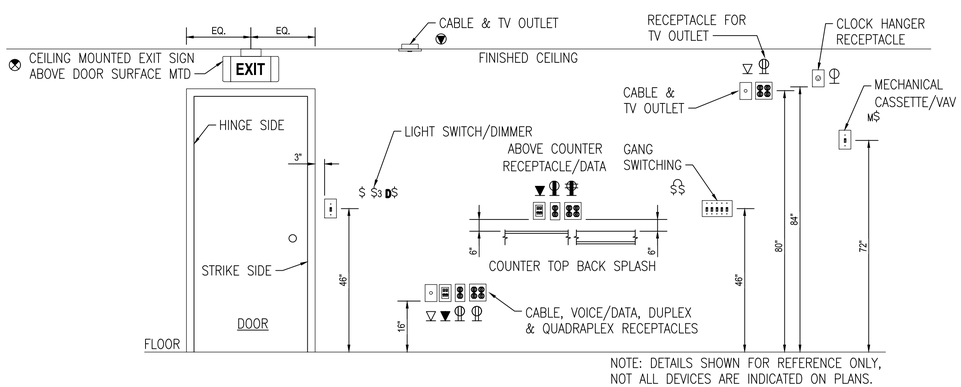
SYMBOL	DESCRIPTION
	2x4 LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED
	2x2 LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED
	4FT OR 8FT CHANNEL LIGHT FIXTURE, SUSPENDED OR SURFACE MOUNTED
	RECESSED LIGHT FIXTURE
	EXIT SIGN, SINGLE FACE, CEILING MOUNTED
	EXIT SIGN, DOUBLE FACE, CEILING MOUNTED
	PANELBOARD, SURFACE OR RECESSED MOUNTED AS SHOWN. SIZE, RATINGS, AND MOUNTING AS INDICATED ON PANEL SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR REQUIRED CLEARANCE IN FRONT OF ELECTRICAL PANEL. SEE NEC TABLE 110.26 WORKING SPACES FOR ADDITIONAL CLEARANCE CONDITIONS.
	NEW ITEMS OR EXISTING DEVICES MODIFIED INDICATED BY SOLID LINES
	EXISTING ITEMS INDICATED BY DASHED LINES
30A/3/1, W/30AF	DISCONNECT SWITCH, FUSED, HEAVY DUTY, SIZE AS INDICATED ON DRAWINGS ##A = DISCONNECT SIZE / # = NUMBER OF POLES / # = NEMA RATING, /##AF = FUSE SIZE
	DISCONNECT SWITCH WITH VFD
	VFD, PROVIDED BY MECHANICAL CONTROLS CONTRACTOR
M$	MANUAL MOTOR STARTER, ELECTRICAL CONTRACTOR SHALL COORDINATE POLES AND SIZE WITH EQUIPMENT
	CONDUIT, HOME RUN TO PANEL BOARD
	POWER & SWITCH LEG
WP, GFI	RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. WP – LISTED WEATHER–RESISTANT TYPE DEVICE WITH WEATHERPROOF IN USE COVER GFI – GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 24" AFF LOCATE GFI TEST SWITCH IN A READILY ACCESSIBLE LOCATION
	RECEPTACLE, DUPLEX, 120VAC, 20A CEILING MOUNTED.
OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 360° COVERAGE
	CEILING MOUNTED DATA OUTLET

LEGEND

SYMBOL	DESCRIPTION
	CEILING MOUNTED CAMERA – SINGLE DIRECTION
	CEILING MOUNTED CAMERA – OMNI DIRECTIONAL
S	CEILING MOUNTED SPEAKER
	ACCESS CONTROL MOTION SENSOR
WAP	WIRELESS ACCESS POINT
BABY	H.U.G.S. PROGRAM BABY SECURITY DEVICE
X#–VAV–X# CKT PANEL–##	VAV IDENTIFICATION, AHU ASSOCIATED, VAV ID TAG CIRCUIT NUMBER FOR POWER PANEL SUPPLYING POWER
	VAV BOX
F	FIRE ALARM HORN/VISUAL DEVICE, CEILING MOUNTED, "110cd" INDICATES CANDELA RATING
F	FIRE ALARM SPEAKER W/STROBE, 80" AFF, "15cd" INDICATES CANDELA RATING
R	DUCT SMOKE DETECTOR, REMOTE INDICATING DEVICE (RAIL), CEILING MOUNTED
P	PROJECTOR, CEILING MOUNTED
M	MICROPHONE, CEILING MOUNTED IN CONFERENCE ROOM
C1 E–501	DETAIL CALL–OUT
	HATCHING INDICATES EXISTING ITEMS TO BE DEMOLISHED. REMOVE DEVICE, EQUIPMENT, FIXTURE INDICATED, CIRCUIT, AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
	WORK AREA
	1 HOUR RATED FIRE WALL
	2 HOUR RATED FIRE WALL
	3 HOUR RATED FIRE WALL

TYPICAL ABBREVIATIONS:

A, AMP	AMPERE
AF	AMP FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGG	INSTRUMENTATION AGGREGATION CABINET
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BOF	BOTTOM OF FIXTURE
BRKR	BREAKER
C, CND	CONDUIT
CAB	CABINET
CAT	CATALOG
CL	CHLORINE
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CP	CONTROL PANEL
CR	CONTROL RELAY, CORROSION RESISTANT
CS	CONTROL SWITCH
CV	CONTROL VALVE
CT	CURRENT TRANSFORMER
CU	COPPER
EF	EXHAUST FAN
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EPRF	EXPLOSION PROOF
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FLA	FULL LOAD AMPS
FLUOR	FLUORESCENT
FLR	FLOOR
FWE	FURNISHED WITH EQUIPMENT
GEN	GENERATOR
G, GND	GROUND
GFCI, GFI	GROUND FAULT CURRENT INTERRUPTER
HH	HANDHOLE
HDMI	HIGH–DEFINITION MULTIMEDIA INTERFACE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND–OFF–AUTO
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HV	HIGH VOLTAGE
Hz	HERTZ
IMC	INTERMEDIATE METALLIC CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
JB	JUNCTION BOX
K	THOUSAND
KCMIL	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATTS
KWH	KILOWATT–HOURS
LP	LIGHTING PANEL, LIGHT POLE
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N, NEUT	NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX, PUSH–BUTTON
PF	POWER FACTOR
PH,	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PP	POWER PANEL, POWER POLE
PT	POTENTIAL TRANSFORMER
PWR	POWER
RECPT, RCP	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RTU	REMOTE TELEMETRY UNIT
SCR	DC MOTOR DRIVE
SH	SHEET
SPEC	SPECIFICATION
SS	SELECTOR SWITCH
SPD	SURGE PROTECTION DEVICE
STP	SHIELDED TWISTED PAIR CABLE
SST	STAINLESS STEEL
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCH GEAR
TEL	TELEPHONE
TMGB	TELECOM MAIN GROUND BAR
TPS	TWISTED PAIR SHIELDED
TVCS	TACTICAL VIDEO CAPTURE SYSTEM
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UGND	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE, WATT
WH	WATT–HOUR
WP	WEATHERPROOF
XFMR	TRANSFORMER
(X)	EXISTING DEVICE



NOTE: DETAILS SHOWN FOR REFERENCE ONLY, NOT ALL DEVICES ARE INDICATED ON PLANS.

A1 ELECTRICAL DEVICES - MOUNTING HEIGHT DETAIL

NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY: 10 DATE: 05/21/2019

DES	JLC	DRW	JLG	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH	EJA				
FIRE PROTECTION	HPN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ELECTRICAL LEGEND AND ABBREVIATIONS

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790541
SHEET	142 OF 196

E-001

DRAWFORM REVISION: 31 JANUARY 2017

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 70 AND IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND FOLLOW THE UFC'S, UFGC AND CODES/STANDARDS INCORPORATED IN THESE DOCUMENTS.

2. ALL EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY–RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. ALL MATERIAL, EQUIPMENT AND DEVICES SHALL BE NEW CURRENT PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS. EQUIPMENT SHALL BE SUITABLE FOR ITS APPLICATION (E.G. WHEN INSTALLED OUTDOORS, IT SHALL BE WEATHERPROOF, ETC.)

3. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR WORK REQUIREMENTS, THE AMOUNT OF SPACE AVAILABLE FOR ELECTRICAL EQUIPMENT, AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER.

4. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THOROUGHLY FAMILIARIZING HIMSELF WITH ANY CONTRACTUAL REQUIREMENTS AS MAY BE SET FORTH IN THE OTHER DIVISIONS OF THE PROJECT SPECIFICATIONS.

5. UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY–FUNCTIONING AFTER INSTALLATION. INCIDENTAL COMPONENTS MAY NOT BE SHOWN, AND ALL WORK WHICH MAY BE REASONABLY IMPLIED AS BEING INCIDENTAL TO THIS WORK, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ADDITIONAL CIRCUITS SHALL BE INSTALLED WHEREVER NEEDED TO CONFORM TO THE SPECIFIC REQUIREMENTS OF EQUIPMENT.

6. TEMPORARY POWER CONNECTIONS AS REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ALL TEMPORARY EQUIPMENT WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL PROVIDE DETAILS, METHODS, MATERIALS, ETC. FOR REVIEW PRIOR TO MAKING TEMPORARY CONNECTIONS. FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL EQUIPMENT, MOTOR STARTERS, BRANCH AND FEEDER CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, ETC. FOR TEMPORARY POWER. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY AS REQUIRED.

7. THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE COMPLETION OF WORK AND ANY MINOR CORRECTIONS, CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT.

8. ALL EQUIPMENT SHOWN DOTTED OR DASHED IS BY OTHERS OR IS EXISTING, AS NOTED.

9. ALL ELECTRICAL EQUIPMENT SHALL, AT ALL TIMES DURING CONSTRUCTION, BE ADEQUATELY PROTECTED AGAINST MECHANICAL INJURY, OR DAMAGE BY WATER AND/OR THE ELEMENTS. ELECTRICAL EQUIPMENT SHALL NOT BE STORED OUT OF DOORS, BUT SHALL BE STORED IN DRY PERMANENT SHELTERS. IF AN APPARATUS HAS BEEN DAMAGED, OR HAS BEEN SUBJECT TO POSSIBLE INJURY BY WATER OR THE ELEMENTS, SUCH DAMAGE SHALL BE REPLACED AT NO ADDITIONAL COST.

10. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD VERIFY ALL DIMENSIONS.

11. CIRCUIT LAYOUTS ARE NOT INTENDED TO SHOW THE NUMBER OF FITTINGS, OR OTHER INSTALLATION DETAILS. UNLESS NOTED OTHERWISE, THE EXACT ROUTING OF FEEDER AND BRANCH CIRCUIT RACEWAYS AND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. RISER AND GENERAL CIRCUIT ARRANGEMENTS ARE SHOWN SCHEMATICALLY/DIAGRAMMATICALLY ONLY. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION.

12. UNLESS DIMENSIONED, DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADJUST EXACT LOCATIONS AS REQUIRED TO SERVE THE INTENDED PURPOSE AND TO AVOID CONFLICTS AND INTERFERENCES WITH OTHER TRADES.

13. CONDUIT TERMINATING IN PRESSED STEEL BOXES SHALL HAVE DOUBLE LOCKNUTS AND INSULATED BUSHINGS. CONDUITS TERMINATING IN GASKETED ENCLOSURES SHALL BE TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.

14. BRANCH CIRCUIT HOMERUNS SHOWN ON DRAWINGS INDICATE PHASE CONDUCTORS, NEUTRAL, EQUIPMENT GROUND CONDUCTORS AS REQUIRED. ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.

15. SEAL ALL CONDUIT OPENINGS THROUGH EXTERIOR BUILDING WALLS WATERTIGHT.

16. IN WET LOCATIONS AND EXTERIOR, ALL WIRING DEVICES SHALL BE WEATHER–RESISTANT LISTED WITH WEATHERPROOF WHILE IN USE COVER.

17. RACEWAYS PENETRATING FLOORS, CEILINGS OR WALLS SHALL BE PROPERLY SEALED SMOKETIGHT.

18. RACEWAYS PENETRATING RATED FLOOR, CEILING OR WALL ASSEMBLIES SHALL BE PROPERLY SEALED IN ACCORDANCE WITH THE CORRESPONDING UNDERWRITERS LABORATORIES (OR OTHER APPROVED THIRD PARTY TESTING AGENCY) APPROVED AND LISTED FIRESTOPPING MATERIALS AND MANUFACTURER APPROVED INSTALLATION TECHNIQUES COMPLYING WITH ALL APPLICABLE CODES. SEE ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF RATED WALLS AND CEILINGS.

19. INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS POSSIBLE. NO DIAGONAL RUNS WILL BE ALLOWED. ALL CONDUITS SHALL BE RUN STRAIGHT AND TRUE. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS WHERE PRACTICAL. MAKE BENDS IN PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL.

20. PATCHING OF WATERPROOFED SURFACES SHALL RENDER THE AREA OF THE PATCHING COMPLETELY WATERPROOF.

21. ALL MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE CONNECTED TO THE CONDUIT SYSTEM BY MEANS OF A SHORT SECTION (18 INCH MINIMUM) OF FLEXIBLE CONDUIT UNLESS OTHERWISE INDICATED. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED INSIDE THE FLEXIBLE CONDUIT AND TERMINATE AT THE LOAD END WITH AN APPROVED GROUNDING CLAMP OR LUG.

22. SURFACE MOUNTED PANELBOARDS, JUNCTION, OUTLET AND PULL BOXES, RACEWAYS, ETC., INSTALLED ON EXTERIOR SURFACES OR INSIDE ON EXTERIOR WALLS SHALL BE SUPPORTED BY SPACERS TO PROVIDE A 1/4" MINIMUM CLEARANCE BETWEEN THE WALL AND EQUIPMENT.

23. CEILING MOUNTED DEVICES INSTALLED IN ACOUSTICAL TILE CEILING AREAS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE WITH RODS OF SUFFICIENT SIZE TO PREVENT VERTICAL MOVEMENT OF THE OUTLET BOX. BRIDGES ALONE ARE NOT ADEQUATE UNLESS SPECIFICALLY APPROVED. CEILING MOUNTED EXIT LIGHT FIXTURES SHALL BE INSTALLED LEVEL. DO NOT SUPPORT DEVICES FROM ACOUSTICAL CEILING TILE.

24. EXCAVATION AND TRENCHING REQUIRED FOR THE INSTALLATION OF ELECTRICAL POWER AND TELECOMMUNICATIONS RACEWAYS SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 26 OF THE PROJECT SPECIFICATIONS.

25. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS/DATA/FIBER, CABLE TELEVISION, GAS AND WATER UTILITY PROVIDERS AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. DAMAGE TO ANY UNDERGROUND UTILITIES OR STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

26. ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED BY UNDERGROUND LINE MARKING TAPE LOCATED DIRECTLY ABOVE THE RACEWAY AT 6 TO 8 INCHES BELOW FINISHED GRADE. SEE SPECIFICATIONS SECTION 260553.

27. PROVIDE ADHESIVE BACKED RECEPTACLE DEVICE PLATE LABELS IDENTIFYING THE CIRCUIT FEEDING THE DEVICE. LABELS SHALL INDICATE PANEL AND CIRCUIT NUMBER. ALSO PROVIDE IDENTIFICATION FOR MULTIWIRE BRANCH CIRCUIT PHASE CONDUCTORS IN PANELBOARD. SEE SPECIFICATIONS SECTION 260553 FOR REQUIREMENTS.

28. FINAL TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET SHALL INCLUDE FINAL ACTUAL ROOM NAMES AND NUMBERS IN ADDITION TO THE GENERAL DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS.

29. CONDUCTOR SIZING IS BASED ON 75 DEGREE C. COPPER NEC RATINGS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THE ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C. WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C. CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IMMEDIATELY FOR EVALUATION/CORRECTION.

30. DO NOT PULL CONDUCTORS UNTIL THE CONDUIT SYSTEM IS COMPLETE IN EVERY DETAIL. IN THE CASE OF CONCEALED WORK, "COMPLETE" MEANS UNTIL ALL ROUGH PLASTERING OR MASONRY HAS BEEN COMPLETED.

31. WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, BRANCH CIRCUITS SHALL CONSIST OF #12 OR #10 AWG MINIMUM PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS IN 1/2" MINIMUM RACEWAY.

32. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL INSTALLED LENGTH GREATER THAN 75 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN 50 FEET, I.E.; #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET.

33. KEEP CONDUCTOR SPLICES TO A MINIMUM. INSTALL SPLICES AND TAPES THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN CONDUCTORS BEING SPLICED. USE SPLICE AND TAP CONNECTORS COMPATIBLE WITH CONDUCTOR MATERIAL. INSTALL CONDUCTORS AT EACH OUTLET WITH AT LEAST 6 [12] INCHES OF SLACK. CONNECT OUTLETS AND COMPONENTS TO WIRING AND TO GROUND AS INDICATED AND INSTRUCTED BY THE MANUFACTURER.

34. DO NOT SPLICE BRANCH CIRCUIT HOMERUNS WITHOUT THE PERMISSION OF THE CONTRACTING OFFICER. HOMERUNS SHALL BE CONTINUOUS FROM THE LAST OUTLET BOX TO THE SERVING PANELBOARD.

35. DO NOT COMBINE BRANCH CIRCUIT HOMERUNS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.

36. DO NOT CHANGE CIRCUITING SHOWN WITHOUT PERMISSION OF THE CONTRACTING OFFICER.

37. TROUGH TAPS SHALL BE AT SWITCH AMPACITY, UNLESS NOTED OTHERWISE.

38. INSTALL WIRING DEVICES AT HEIGHTS AS SHOWN ON THE DRAWINGS.

39. PROVIDE GROUND FAULT CIRCUIT–INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH THE NEC INCLUDING ALL ELECTRIC WATER COOLERS, EXTERIOR RECEPTACLES AND RECEPTACLES IN AREAS SUBJECT TO POSSIBLE WET CONDITIONS. ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. ALL RECEPTACLES IN NON–RESIDENTIAL KITCHENS SHALL BE GFI PROTECTED.

40. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT AND OF GOVERNMENT PROVIDED EQUIPMENT WITH THE RESPECTIVE CONTRACTORS AND VENDORS AND THE GOVERNMENT BEFORE ROUGH–IN. ADJUST LIGHTING FIXTURES, RECEPTACLES AND ELECTRICAL EQUIPMENT TO ACCOMMODATE THIS EQUIPMENT. ADVISE THE GOVERNMENT/CONTRACTING OFFICER OF CONFLICTS BEFORE ROUGH–IN.

41. BEFORE COMMENCING WORK OR ORDERING MATERIALS, THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND VERIFY THE NAMEPLATE RATINGS OF ALL EQUIPMENT (MOTORS, HEATERS, COMPRESSORS, ETC.) AND ADJUST THE RATINGS OF THE ELECTRICAL EQUIPMENT (SWITCHES, FUSES, CIRCUIT BREAKERS, FEEDERS, ETC.) AS APPROPRIATE TO SERVE THIS EQUIPMENT.

42. ENERGIZE EQUIPMENT ONLY AFTER OBTAINING PERMISSION FROM THE CONTRACTOR PROVIDING THE EQUIPMENT.

43. UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR, PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, TO VERIFY MECHANICAL EQUIPMENT REQUIREMENTS ARE PROVIDED IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS.

44. THE CONTRACTOR SHALL FURNISH ALL STARTERS AND CONTROLS FOR THEIR EQUIPMENT. THE CONTRACTOR SHALL MOUNT STARTERS FURNISHED BY THE MECHANICAL CONTRACTOR, THE CONTRACTOR SHALL PROVIDE ALL SAFETY SWITCHES, WIRING AND CONNECTIONS TO LINE SIDE AND LOAD SIDE OF STARTERS AND SAFETY SWITCHES COMPLETE TO MECHANICAL EQUIPMENT. FOR RESISTANCE TYPE LOADS WHERE STARTERS OR CONTACTORS ARE NOT REQUIRED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS COMPLETE TO EQUIPMENT. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING AND CONNECTIONS AND DEVICES FOR THEIR EQUIPMENT.

45. THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT TERMINATIONS, PLUGS AND CORD–SETS WITH VENDOR EQUIPMENT AND VERIFY ALL DEVICE LOCATIONS FOR SPECIALITY EQUIPMENT WITH CASEWORK PRIOR TO ROUGH–IN.

46. INSTALLATION INFORMATION PACKED WITH DEVICES AND EQUIPMENT SHALL BE RETAINED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.

47. CONDUIT CODED IDENTIFICATION SYSTEM:
A COLORED BAND MUST BE ATTACHED TO EACH CONDUIT THAT IDENTIFIES THE CABLING WITHIN THE CONDUIT. THESE BANDS MUST BE SPACED NO MORE THAN 30 APART FOR THE LENGTH OF THE CONDUIT, AS WELL AS AT EACH POINT THE CONDUIT ENTERS OR LEAVES A JUNCTION BOX, SWITCHBOARD OR PANELBOARD. BANDS MUST ALSO BE PLACED AT EACH CHANGE OF DIRECTION. THE BANDS WILL COMPLETELY ENCIRCLE THE CONDUIT. NO COLOR CODING SHALL BE APPLIED TO CONDUIT VISIBLE OUTSIDE THE FACILITY.

NO COLOR – NORMAL POWER
ORANGE – DATA/TELEPHONE
RED – FIRE ALARM
BLUE – EMERGENCY POWER/ CRITICAL CIRCUITS
BLACK – CONTROLS/DDC
WHITE – NURSE CALL

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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APPROVED
FOR COMMANDER NAVFAC 7/1/2019
ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	JLG	DRW	JLG	CHK	WAC

PM/DM DWB/KDB
BRANCH MANAGER JAB
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS: IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ELECTRICAL GENERAL NOTES

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790542
SHEET 143 OF 196

E-002

DRAWFORM REVISION: 31 JANUARY 2017

ELECTRICAL GENERAL NOTES

47. PROTECT ALL EXISTING POWER, COMMUNICATIONS, DATA, AUDIO/VISUAL, LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE GOVERNMENT AND CONTRACTING OFFICER IF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE GOVERNMENT, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.

48. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY TO INSTALL ALL EQUIPMENT AS REQUIRED AND SHALL REESTABLISH ALL FINISHES TO THEIR ORIGINAL CONDITION WHERE CUTTING AND PATCHING OCCUR. ALL CUTTING AND PATCHING SHALL BE DONE IN A THOROUGHLY WORKMANSHIP MANNER. SAW CUT CONCRETE AND MASONRY PRIOR TO BREAKING OUT SECTIONS. ALL PATCHING MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY TRADESMEN EXPERIENCED IN THAT WORK. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER.

49. CORE DRILL HOLES IN EXISTING CONCRETE WALLS AS REQUIRED.

50. INSTALL WORK AT SUCH TIME AS TO REQUIRE THE MINIMUM AMOUNT TO CUTTING AND PATCHING.

51. CUT OPENINGS ONLY LARGE ENOUGH TO ALLOW EASY INSTALLATION OF THE CONDUIT.

52. WHEN INDICATED, CONNECT NEW LOADS TO EXISTING ABANDONED CIRCUITS SERVING THE SAME AREA AND NOTE CIRCUITS ON AS-BUILT DRAWINGS.

53. EXISTING CIRCUITING WHERE SHOWN IS FOR CONVENIENCE PURPOSES ONLY. VERIFICATION OF EXISTING WIRING DESTINATION, TERMINATION AND ADDITIONS OF NEW LOADS IS THE RESPONSIBILITY OF THE CONTRACTOR.

54. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THIS WORK.

55. ABANDONED POWER WIRING, RACEWAYS AND CONDUCTORS, SHALL BE REMOVED BACK TO THEIR SOURCE. THE ACCESSIBLE PORTIONS OF ABANDONED CABLES (VOICE, DATA, VIDEO, ALARM, ETC.) SHALL BE REMOVED.

56. TRACE OUT EXISTING WIRING THAT IS TO BE RELOCATED, OR REMOVED AND PERFORM THE RELOCATION OR REMOVAL WORK AS REQUIRED FOR A COMPLETE OPERATING AND SAFE SYSTEM.

57. THE EXISTING ELECTRICAL SYSTEMS DEPICTED ON THESE DRAWINGS HAVE BEEN COMPILED BY THE ENGINEER FROM THE GOVERNMENTS RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF THE EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, POINTS OF ACCESS AND FIELD CONDITIONS AFFECTING HIS WORK.

58. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING ELECTRICAL SYSTEMS AND THE EXISTING BUILDING. THE SUBMISSION OF THE PROPOSAL BY THE CONTRACTOR SHALL BE CONSIDERED EVIDENCE THAT HE OR HIS REPRESENTATIVE HAS VISITED THE SITE AND BUILDINGS AND NOTED THE LOCATION AND CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED AND THAT HE TAKES FULL RESPONSIBILITY OF ALL FACTORS GOVERNING HIS WORK. NO EXTRAS WILL BE CONSIDERED BECAUSE OF ADDITIONAL WORK NECESSITATED BY EXISTING JOB CONDITIONS THAT ARE NOT INDICATED ON THE DRAWINGS.

59. SOME EXISTING RECEPTACLE, LIGHTING OR OTHER LOADS MAY BE SERVED BY CIRCUITS INDICATED TO BE REMOVED. IF SUCH CONDITIONS ARE DISCOVERED, REQUEST THE CONTRACTING OFFICER PROVIDE NEW CIRCUIT NUMBER FOR THE LOAD. DO NOT INDISCRIMINATELY CONNECT TO THE NEAREST CIRCUIT.

60. PROVIDE ALL ELECTRICAL RELOCATION WORK ASSOCIATED WITH THE RELOCATING OF EQUIPMENT FOR THE EXISTING FACILITIES, INCLUDING DISCONNECTING ALL EXISTING WIRING AND CONDUITS AND PROVIDING NEW WIRING AND CONDUITS TO THE RELOCATED EQUIPMENT.

61. THE EXISTING FACILITIES WILL REMAIN OCCUPIED BY THE GOVERNMENT STAFF THROUGHOUT THE PROJECT. AS SUCH, WORK WILL BE DONE IN PHASES AND WILL REQUIRE SPECIAL EFFORT BY THIS CONTRACTOR TO ALLOW THE WORK TO PROCEED IN A TIMELY MANNER. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE GOVERNMENT/CONTRACTING OFFICER AND CONTRACTOR SO AS TO MINIMIZE DISRUPTION OF THE GOVERNMENTS USE OF THE FACILITIES AND MAINTAIN THE CONSTRUCTION SEQUENCE OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE A SEQUENCING PLAN AND SCHEDULE AS TO HOW THEY PLAN TO ACCOMPLISH BUILD OF PROJECT BEFORE PROCEEDING WITH WORK.

62. SEE "DEMOLITION NOTES" FOR ADDITIONAL REQUIREMENTS.

63. SAFETY
    A. COMPLY WITH OSHA, NEC ARC FLASH PROTECTION REQUIREMENTS AND EM 385-1-1.

    B. FOR EQUIPMENT BEING REMOVED AND REPLACED, THE CONTRACTOR SHALL DE-ENERGIZE THE EQUIPMENT AND MAKE IT SAFE PRIOR TO REMOVAL AND COMPLY WITH OSHA REQUIREMENTS FOR LOCKING-OUT AND TAGGING EQUIPMENT TO PREVENT INADVERTENT RE-ENERGIZING.

    C. WHERE EQUIPMENT IS BEING REMOVED, BUT NOT REPLACED, REMOVE THE CONDUCTORS FEEDING THE EQUIPMENT BACK TO THE POINT WHERE THEY RECEIVE POWER. REMOVE ACCESSIBLE CONDUITS. ABANDON IN PLACE INACCESSIBLE CONDUITS. AFTER REMOVAL OF EQUIPMENT, REPAIR ANY OPENING THAT REMAINS AND MATCH SURROUNDING WALLS, CEILINGS, OR FLOORS TO THE CONTRACTING OFFICERS SATISFACTION.

    D. D. COORDINATE WITH THE OTHER TRADES, PRIOR TO BID, AND INCLUDE IN THE BASE BID THE ELECTRICAL DISCONNECTION OF ANY EQUIPMENT BEING DEMOLISHED, EVEN IF NOT EXPLICITLY SHOWN. UNLESS NOTED OTHERWISE, REMOVE ALL DEMOLISHED EQUIPMENT FROM THE PROPERTY.

ELECTRICAL DEMOLITION NOTES

1. SELECTIVE ELECTRICAL DEMOLITION SHALL BE PROVIDED BY THE CONTRACTOR AS DESCRIBED HEREIN AND AS SHOWN ON THE CONTRACT DRAWINGS. GROSS DEMOLITION WILL BE PROVIDED BY THE CONTRACTOR. IDENTIFY ACTIVE UTILITIES, AND AT THE APPROPRIATE TIME, DISCONNECT AND CAP OFF SUCH UTILITIES AND PROVIDE EXPERIENCED PERSONNEL ON SITE DURING CONTRACTOR DEMOLITION OPERATIONS TO PERFORM SUCH OPERATIONS AND RESOLVE ISSUES. REMOVE MATERIALS NOTED FOR SALVAGE AND REUSE. IDENTIFY AND MARK WIRING AND DEVICES TO REMAIN FOR THE GENERAL CONTRACTOR.

2. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND CARRY OUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL WIRING DEVICES, BOXES, EXPOSED ABANDONED RACEWAYS, HANGARS, ETC., AND THOSE MADE OBSOLETE BY THESE ALTERATIONS AND AS SHOWN ON THE ELECTRICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY ELECTRICAL WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE GOVERNMENT OR CONTRACTING OFFICER. SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A BID AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPICTED ON THE DRAWINGS AND SOME UNUSUAL CONDITIONS MAY EXIST.

3. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

4. ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.

5. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON DRAWINGS.

6. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.

7. DISCONNECT AND/OR DE-ENERGIZE ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

8. PROVIDE TEMPORARY AND/OR PERMANENT WIRING AND CONNECTIONS AS SHOWN AND/OR AS REQUIRED BY CONDITIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, AND WHEN SUCH WORK IS SPECIFICALLY APPROVED BY THE OWNER AND PERMITTED BY REGULATORY AUTHORITIES, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

9. EXISTING ELECTRICAL SERVICE: COORDINATE POWER OUTAGES WITH THE GOVERNMENT AND UTILITY COMPANY. MAINTAIN EXISTING SYSTEMS IN SERVICE. DISABLE SYSTEMS ONLY TO MAKE SWITCH-OVERS AND CONNECTIONS. OBTAIN PERMISSION FROM THE OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

10. CONTINUOUS SERVICE IS REQUIRED ON ALL CIRCUITS AND OUTLETS AFFECTED BY THESE CHANGES, EXCEPT WHERE THE OWNER WILL PERMIT AN OUTAGE FOR A SPECIFIC TIME. OBTAIN OWNER'S CONSENT BEFORE REMOVING ANY CIRCUIT FROM CONTINUOUS SERVICE.

11. PROTECT ALL EXISTING TELEPHONE, DATA, LIFE SAFETY SYSTEMS, FIRE ALARM, SECURITY, ACCESS CONTROL AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE GOVERNMENT AND CONTRACTING OFFICER IN WRITING IF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE GOVERNMENT, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.

12. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE PROTECTED FROM DAMAGE AND REMAIN OR BE SUITABLY RELOCATED UTILIZING MATCHING SIZE AND TYPE MATERIALS AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE GOVERNMENT/CONTRACTING OFFICER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.

13. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

14. ENDS OF ALL CONDUITS TO REMAIN SHALL BE TIGHTLY PLUGGED TO EXCLUDE DUST AND MOISTURE WHILE THE BUILDING IS UNDER RENOVATION.

15. PROTECT EXISTING CIRCUITS TO REMAIN AND EXTEND AS REQUIRED UTILIZING MATCHING CONDUCTORS AND CONDUIT SIZE AND TYPE.

16. SECURE ALL CIRCUITS, RACEWAYS, CABLE AND CONDUCTORS THAT, AS A RESULT FROM THIS CONSTRUCTION, ARE ABANDONED OR UNUSED. REMOVE UNUSED EXPOSED CONDUIT AND WIRING BACK TO POINT OF CONCEALMENT INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILINGS. REMOVE UNUSED WIRING IN CONCEALED CONDUITS BACK TO SOURCE OR NEAREST POINT OF USAGE. BLANK ABANDONED KNOCKOUTS IN REMAINING BOXES. INSTALL BLANK PLATES FOR ALL UNUSED OUTLETS THAT WILL REMAIN AS A RESULT OF THIS CONSTRUCTION. ALL SUCH WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. UPDATE PANEL SCHEDULES TO REFLECT THESE MODIFICATIONS.

17. TRACE OUT EXISTING WIRING THAT IS TO BE RELOCATED OR REMOVED AND PERFORM THE RELOCATION OR REMOVAL WORK AS REQUIRED FOR A COMPLETE OPERATING AND SAFE SYSTEM.

18. RECONNECT EXISTING CIRCUITS SEPARATED AS A RESULT OF THIS CONSTRUCTION.

19. EXTEND EXISTING SWITCH LEGS TO NEW SWITCH LOCATIONS AS SHOWN AND/OR REQUIRED.

20. DELIVER ALL REMOVED AND SALVAGED LIGHTING FIXTURES, WIRING DEVICES, FIRE ALARM DEVICES, DISCONNECTS, VFD'S, SPEAKERS, ETC., TO THE GOVERNMENT/CONTRACTING OFFICER, OR AT THE GOVERNMENTS OPTION, DISPOSE OF PROPERLY OFF SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. FEES ASSOCIATED WITH DISPOSAL SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID.

21. PROTECT EXISTING CIRCUITS FEEDING LIGHTING FIXTURES FOR EXTENSION TO NEW AND RELOCATED LIGHTING FIXTURES.

22. DO NOT DISTURB EXISTING DATA, TELEPHONE, SECURITY/INTRUSION, AUDIO VISUAL AND ENERGY MANAGEMENT SYSTEMS, DEVICES OR CABLES UNLESS SPECIFICALLY NOTED OTHERWISE.

23. ALL FLUSH MOUNTED WIRING DEVICES SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED. IT IS THE INTENTION OF THE THIS CONTRACT TO REMOVE ALL FLUSH MOUNTED DEVICES THAT CONFLICT WITH NEW CONSTRUCTION AND SECURE THEIR ASSOCIATED BRANCH CIRCUITS.

24. COORDINATE WITH THE OTHER TRADES, PRIOR TO BID, AND INCLUDE IN THE BASE BID THE ELECTRICAL DISCONNECTION OF ANY EQUIPMENT BEING DEMOLISHED, EVEN IF NOT EXPLICITLY SHOWN. UNLESS NOTED OTHERWISE, REMOVE ALL DEMOLISHED EQUIPMENT FROM THE PROPERTY AND IDENTIFIED IN THE ELECTRICAL DRAWINGS.

25. THESE DRAWINGS ARE COMPILED BY THE ENGINEER FROM THE GOVERNMENTS RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL CIRCUITS, WIRING, CONDUIT, DIMENSIONS, POINTS OF ACCESS AND ALL FIELD CONDITIONS AFFECTING HIS WORK. BEGINNING OF DEMOLITION MEANS THE CONTRACTOR ACCEPTS EXISTING CONDITIONS.

26. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

APPR	DATE	DESCRIPTION	SYM
	05.23.19	ISSUED FOR CONSTRUCTION	0

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES JLG | DRW JLG | CHK WAC

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ELECTRICAL GENERAL AND DEMOLITION NOTES

SCALE: AS NOTED

EPROJECT NO.:

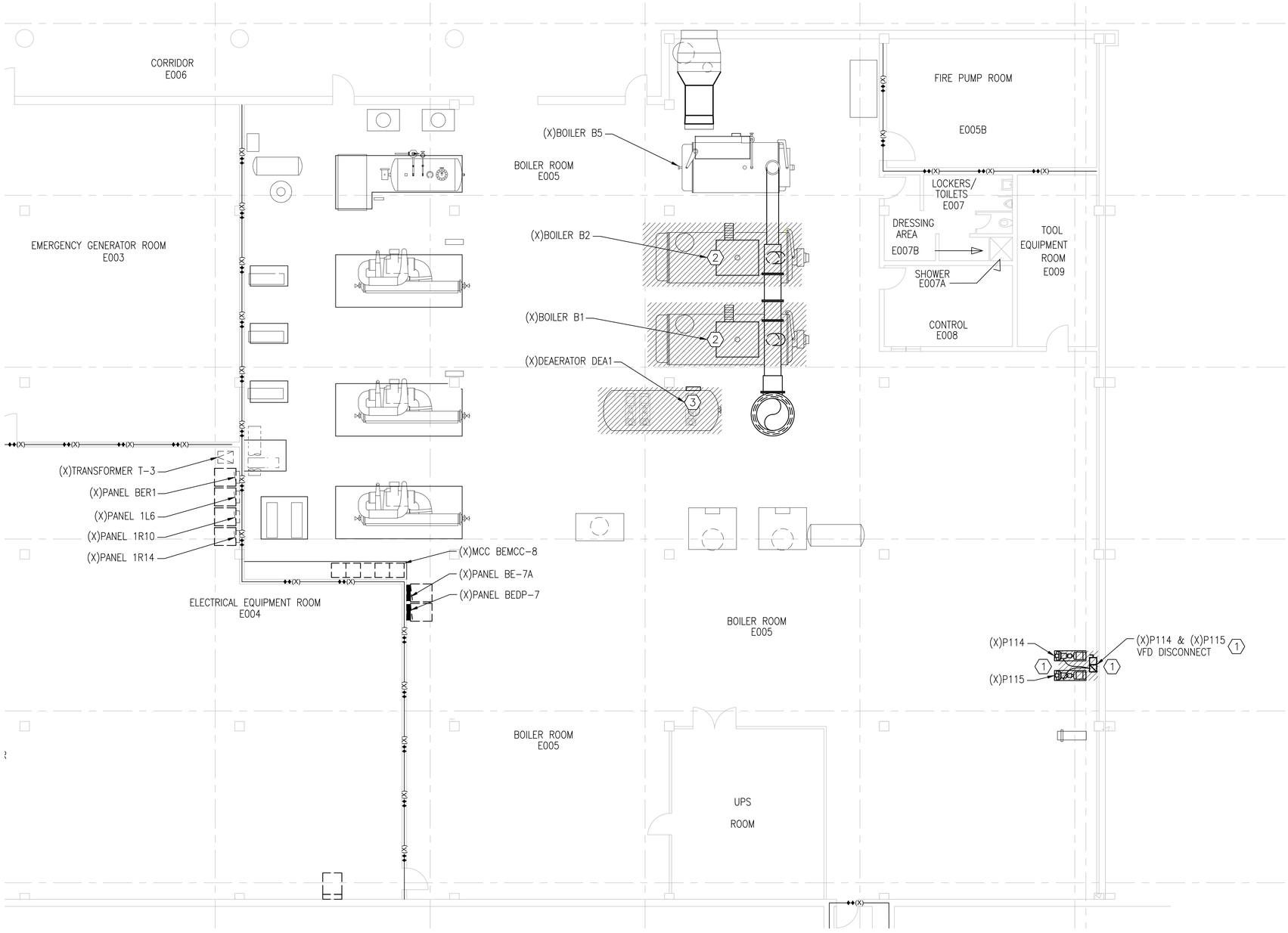
CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790543

SHEET 144 OF 196

E-003

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 0 - AREA E

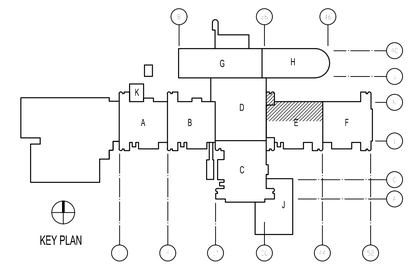
SCALE: 1/8"=1'-0"

PLAN NORTH

KEYED NOTES

1. PUMPS (X)P114 & (X)P115: DISCONNECT CONDUIT AND CONDUCTORS FROM VFD DISCONNECT TO PUMPS. PROTECT FEED CONDUIT DURING DEMOLITION FOR RE-USE. REMOVE CONDUCTORS COMPLETE TO SOURCE. BREAKER SHALL BE REMOVED AND REPLACED. COORDINATE REMOVAL OF CONTROL CONDUIT AND CONDUCTORS WITH MECHANICAL/CONTROLS CONTRACTOR.
2. (X)BOILER B1 AND (X)BOILER B2: DISCONNECT AND REMOVE FEED CONDUIT AND CONDUCTORS FROM BOILER. PROTECT CONDUIT DURING DEMOLITION FOR RE-USE. REMOVE CONDUCTORS COMPLETE TO SOURCE. PROTECT BREAKER FOR RE-USE. COORDINATE REMOVAL OF CONTROL CONDUIT AND CONDUCTORS WITH MECHANICAL/CONTROLS CONTRACTOR.
3. (X)DEAERATOR DEA1: DISCONNECT AND REMOVE FEED CONDUIT AND CONDUCTORS FROM DEAERATOR CONTROL PANEL COMPLETE TO SOURCE. BREAKER SHALL BE REMOVED AND REPLACED. COORDINATE REMOVAL OF CONTROL CONDUIT AND CONDUCTORS WITH MECHANICAL/CONTROLS CONTRACTOR.

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA
REGISTERED
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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	JG	DRW	JG	CHK	WAC

PM/DM DWB/KDB
BRANCH MANAGER JAR
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

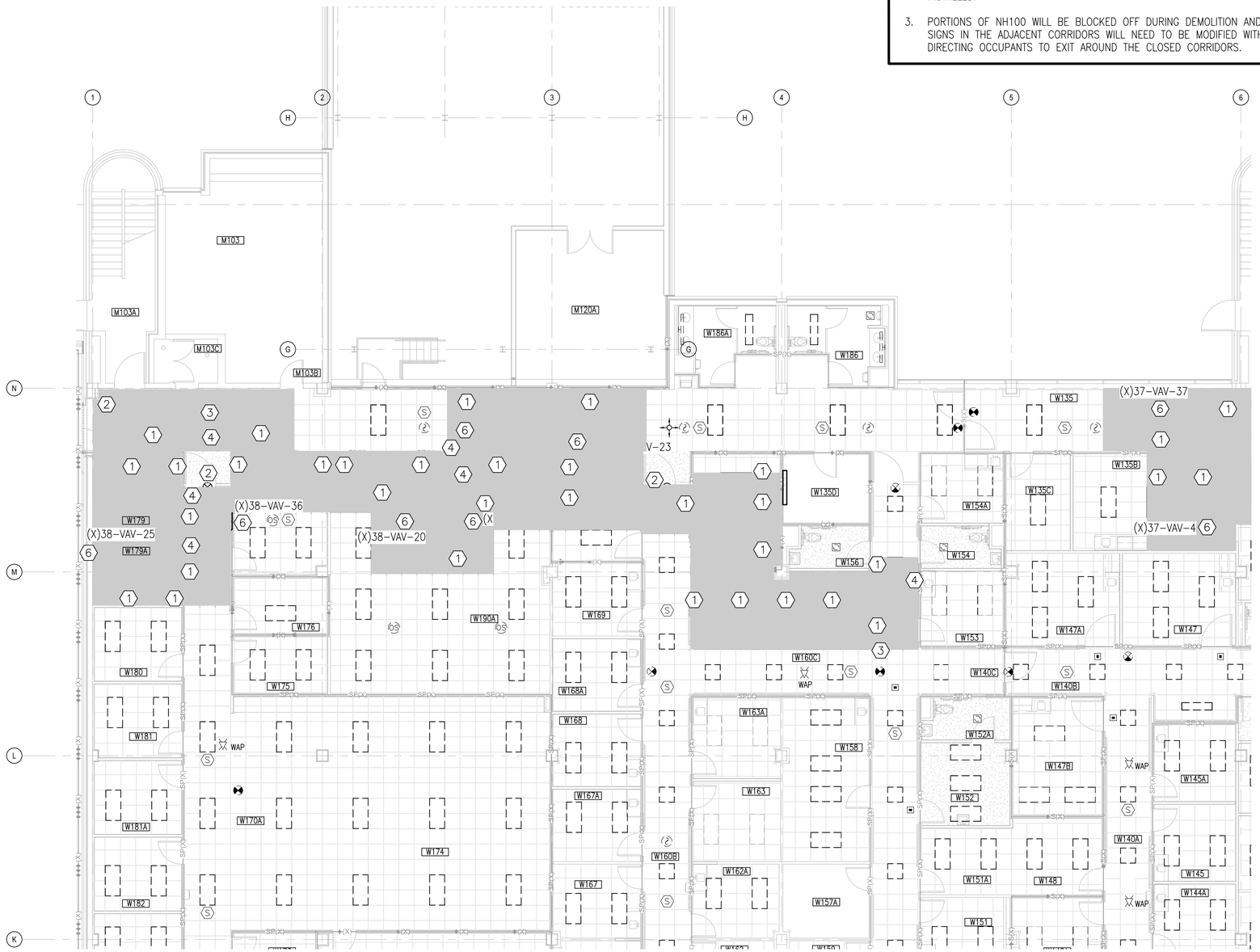
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL BOILER ROOM DEMOLITION PLAN
LEVEL 0 - AREA E

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790544
SHEET 145 OF 196

ED100-E1

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 1 - AREA A1

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

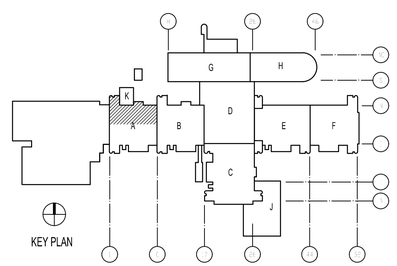
1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
2. CEILING DEMOLITION SHADING IS A SUGGESTED AREA AND ACTUAL DEMOLITION AREA MAY BE LESS OR GREATER THAN SPECIFIED AREA. CONTRACTOR SHALL COORDINATE FINAL DEMOLITION AREA NEEDED BASED UPON FIELD CONDITIONS AS WELL AS MATERIALS TO BE INSTALLED.
3. PORTIONS OF NH100 WILL BE BLOCKED OFF DURING DEMOLITION AND CONSTRUCTION. EXIT SIGNS IN THE ADJACENT CORRIDORS WILL NEED TO BE MODIFIED WITH TEMPORARY SIGNAGE DIRECTING OCCUPANTS TO EXIT AROUND THE CLOSED CORRIDORS.

DEMOLITION NOTES

1. LIGHT FIXTURES AND OCCUPANCY SENSORS: PROTECT AND SECURE EXISTING DEVICE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
2. EXIT SIGNS AND ROOM IN USE FIXTURES: PROTECT AND SECURE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
3. FIRE ALARM DEVICES: PROTECT AND SECURE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
4. SPEAKERS, CAMERAS, WAPS: PROTECT AND SECURE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
5. LIGHTING DEVICES IN GYPSUM CEILING: IDENTIFY AND PROTECT CONDUIT AND CONDUCTORS PRIOR TO DEMOLITION. COORDINATE WITH CONTRACTING OFFICER TO REMOVE FIXTURE AND LAMPS, STORE FOR REUSE.
6. VAV BOX: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS FROM VAV BOX TO CLOSEST POINT OF USE. ALL REMAINING DEVICES ON CIRCUIT SHALL REMAIN OPERATIONAL DURING DEMOLITION AND CONSTRUCTION.
7. CEILING DATA OUTLET: SECURE DATA OUTLET AND PROTECT IN PLACE DURING DEMOLITION.
8. CEILING EQUIPMENT CORD: UNPLUG EQUIPMENT CORD FROM RECEPTACLE ABOVE CEILING AND STORE WITH EQUIPMENT DURING DEMOLITION. REMOVE RECEPTACLE BOX, CONDUCTORS AND CONDUIT SHALL REMAIN FOR RELOCATION OF RECEPTACLE.
9. CEILING PROJECTOR: COORDINATE WITH CONTRACTING OFFICER TO REMOVE AND STORE DEVICES FOR REUSE AFTER DEMOLITION.
10. PUMPS (X)P154 & (X)P155 VFD DISCONNECT: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS COMPLETE FROM EQUIPMENT TO SOURCE. PROTECT BREAKER DURING DEMOLITION FOR RE-USE. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR ON THE REMOVAL OF CONTROL CONDUIT AND CONDUCTORS.
11. FLUSH MOUNTED CEILING RECEPTACLE: PROTECT AND SECURE EXISTING DEVICE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
12. SPEAKER/CAMERAS IN GYPSUM CEILING: IDENTIFY AND PROTECT WIRING PRIOR TO DEMOLITION. COORDINATE WITH CONTRACTING OFFICER TO REMOVE AND STORE DEVICES FOR REUSE.
13. CEILING MOUNTED MICROPHONES: IDENTIFY AND PROTECT WIRING PRIOR TO DEMOLITION. COORDINATE WITH CONTRACTING OFFICER TO REMOVE AND STORE DEVICES FOR REUSE.
14. PUMPS (X)P152 & (X)P153 VFD DISCONNECT: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS COMPLETE FROM EQUIPMENT TO SOURCE. BREAKER SHALL BE REMOVED AND REPLACED. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR ON THE REMOVAL OF CONTROL CONDUIT AND CONDUCTORS.
15. PUMP VFD DISCONNECT: CONTRACTOR SHALL REMOVE VFD DISCONNECT AND DELIVER TO CONTRACTING OFFICER.

*NOTES ABOVE NOT INDICATED ON ALL PLANS

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

05/23/19 SEAL

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A/E INFO

APPROVED
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ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES GAS DRW GAS CHK WAC
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA A1

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12790545
SHEET 146 OF 196

ED101-A1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
2. CEILING DEMOLITION SHADING IS A SUGGESTED AREA AND ACTUAL DEMOLITION AREA MAY BE LESS OR GREATER THAN SPECIFIED AREA. CONTRACTOR SHALL COORDINATE FINAL DEMOLITION AREA NEEDED BASED UPON FIELD CONDITIONS AS WELL AS MATERIALS TO BE INSTALLED.
3. PORTIONS OF NH100 WILL BE BLOCKED OFF DURING DEMOLITION AND CONSTRUCTION. EXIT SIGNS IN THE ADJACENT CORRIDORS WILL NEED TO BE MODIFIED WITH TEMPORARY SIGNAGE DIRECTING OCCUPANTS TO EXIT AROUND THE CLOSED CORRIDORS.

DEMOLITION NOTES

1. LIGHT FIXTURES AND OCCUPANCY SENSORS: PROTECT AND SECURE EXISTING DEVICE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
2. EXIT SIGNS AND ROOM IN USE FIXTURES: PROTECT AND SECURE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
3. FIRE ALARM DEVICES: PROTECT AND SECURE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
4. SPEAKERS, CAMERAS, WAPS: PROTECT AND SECURE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
5. LIGHTING DEVICES IN GYPSUM CEILING: IDENTIFY AND PROTECT CONDUIT AND CONDUCTORS PRIOR TO DEMOLITION. COORDINATE WITH CONTRACTING OFFICER TO REMOVE FIXTURE AND LAMPS, STORE FOR REUSE.
6. VAV BOX: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS FROM VAV BOX TO CLOSEST POINT OF USE. ALL REMAINING DEVICES ON CIRCUIT SHALL REMAIN OPERATIONAL DURING DEMOLITION AND CONSTRUCTION.
7. CEILING DATA OUTLET: SECURE DATA OUTLET AND PROTECT IN PLACE DURING DEMOLITION.
8. CEILING EQUIPMENT CORD: UNPLUG EQUIPMENT CORD FROM RECEPTACLE ABOVE CEILING AND STORE WITH EQUIPMENT DURING DEMOLITION. REMOVE RECEPTACLE BOX, CONDUCTORS AND CONDUIT SHALL REMAIN FOR RELOCATION OF RECEPTACLE.
9. CEILING PROJECTOR: COORDINATE WITH CONTRACTING OFFICER TO REMOVE AND STORE DEVICES FOR REUSE AFTER DEMOLITION.
10. PUMPS (X)P154 & (X)P155 VFD DISCONNECT: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS COMPLETE FROM EQUIPMENT TO SOURCE. PROTECT BREAKER DURING DEMOLITION FOR RE-USE. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR ON THE REMOVAL OF CONTROL CONDUIT AND CONDUCTORS.
11. FLUSH MOUNTED CEILING RECEPTACLE: PROTECT AND SECURE EXISTING DEVICE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
12. SPEAKER/CAMERAS IN GYPSUM CEILING: IDENTIFY AND PROTECT WIRING PRIOR TO DEMOLITION. COORDINATE WITH CONTRACTING OFFICER TO REMOVE AND STORE DEVICES FOR REUSE.
13. CEILING MOUNTED MICROPHONES: IDENTIFY AND PROTECT WIRING PRIOR TO DEMOLITION. COORDINATE WITH CONTRACTING OFFICER TO REMOVE AND STORE DEVICES FOR REUSE.
14. PUMPS (X)P152 & (X)P153 VFD DISCONNECT: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS COMPLETE FROM EQUIPMENT TO SOURCE. BREAKER SHALL BE REMOVED AND REPLACED. COORDINATE WITH MECHANICAL/CONTROLS CONTRACTOR ON THE REMOVAL OF CONTROL CONDUIT AND CONDUCTORS.
15. PUMP VFD DISCONNECT: CONTRACTOR SHALL REMOVE VFD DISCONNECT AND DELIVER TO CONTRACTING OFFICER.

*NOTES ABOVE NOT INDICATED ON ALL PLANS

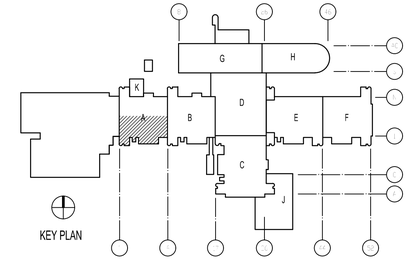


PARTIAL PLAN - LEVEL 1 - AREA A2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

05/23/19 SEAL

CBHF Engineers, PLLC
2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
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www.cbhfengineers.com

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NC# P-0606
A/E REG

APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES GAS | DRW GAS | CHK WAC
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA A2

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12790546
SHEET 147 OF 196

ED101-A2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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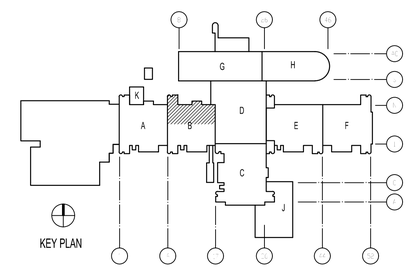


PARTIAL PLAN - LEVEL 1 - AREA B1

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



KEY PLAN

GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

0	ISSUED FOR CONSTRUCTION	05.23.19	APPR

NAVFAC

05/23/19 SEAL

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NC# P-0306
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES GAS DRW GAS CHK WAC
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA B1

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12790547
SHEET 148 OF 196

ED101-B1

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 1 - AREA B2

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

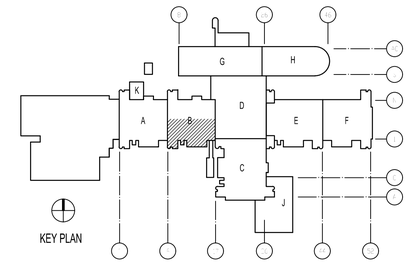
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KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 WILLIAM ALLEN CRIBB

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES GAS DRW GAS CHK WAC

PM/DM DWB/KDB

BRANCH MANAGER jaz

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA B2

SCALE: AS NOTED

EPROJECT NO.:

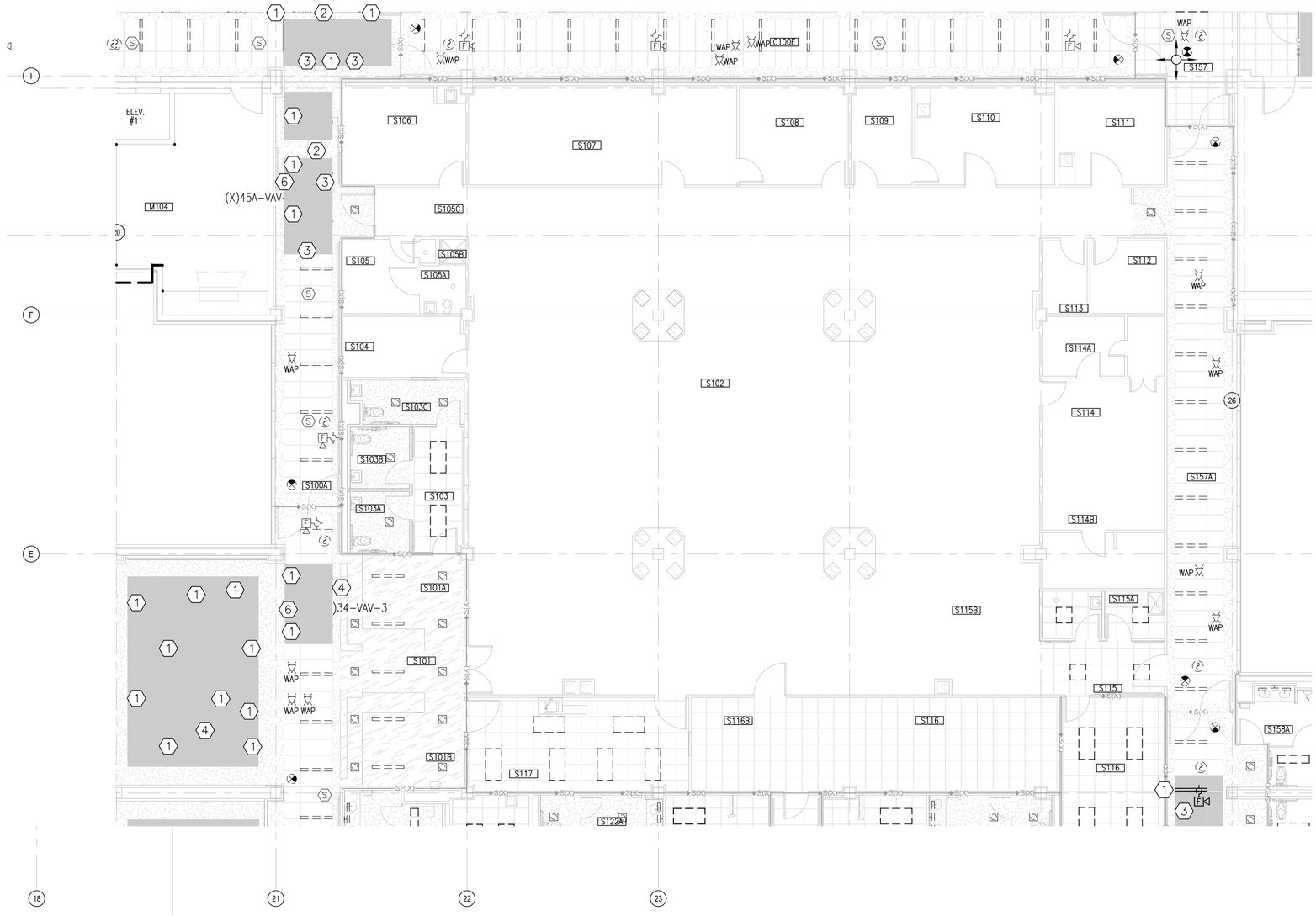
CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790548

SHEET 149 OF 196

ED101-B2

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 1 - AREA C1

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

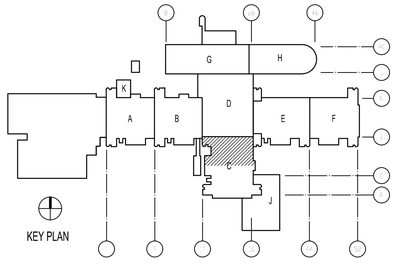
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KEY PLAN



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SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

KURT A. GASKIN 023311 REGISTERED PROFESSIONAL ENGINEER — SEAL 023311 — ENGINEER W. ALLEN CRIBB

05/23/19 SEAL

CBHF Engineers, PLLC
2246 Yaupon Drive
Wilmington, NC 28401
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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES GAS | DRW GAS | CHK WAC

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA C1

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790549

SHEET 150 OF 196

ED101-C1

DRAWFORM REVISION: 31 JANUARY 2017

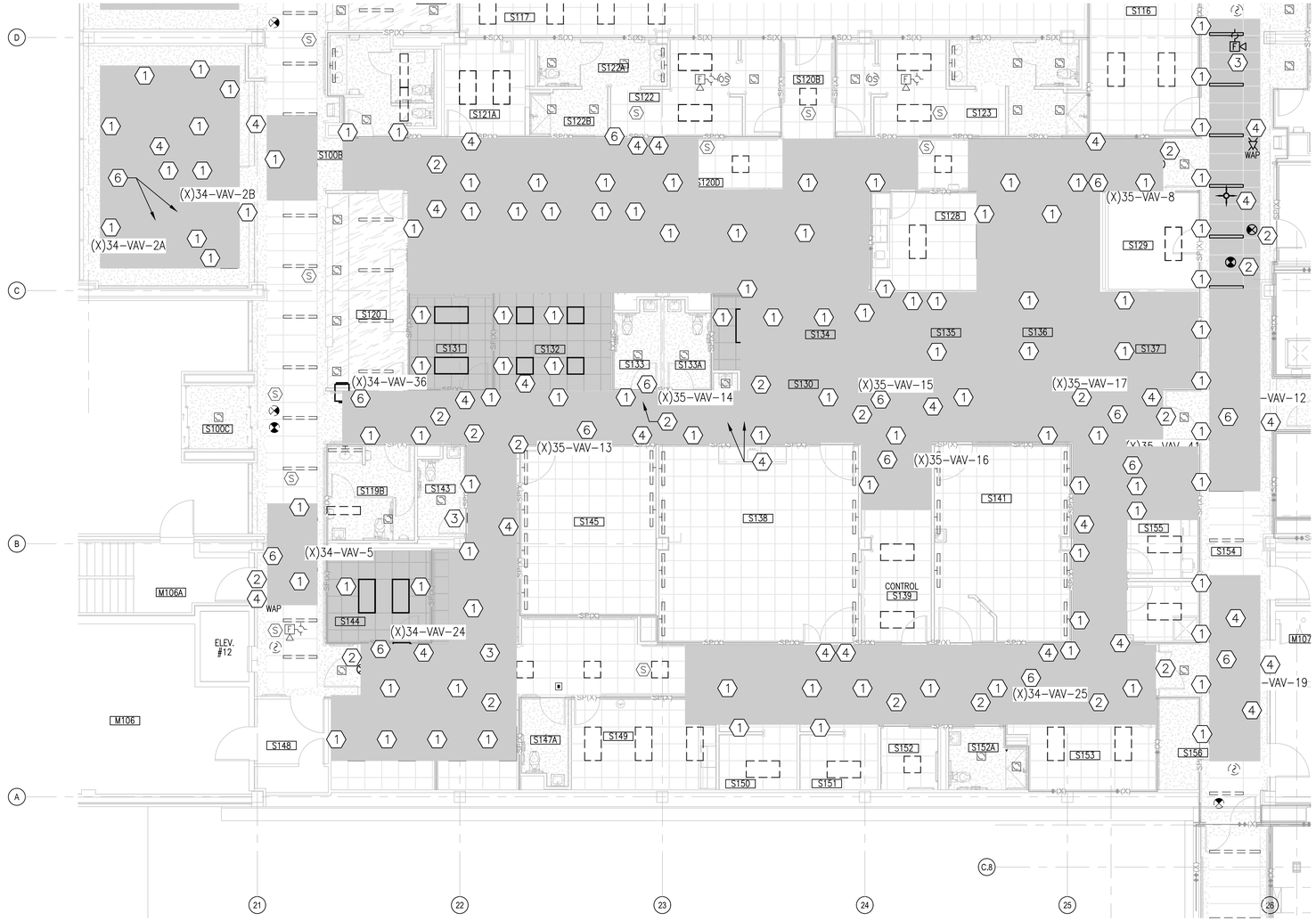
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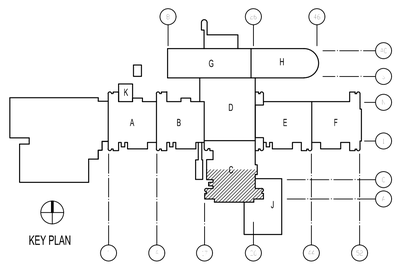


PARTIAL PLAN - LEVEL 1 - AREA C2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

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NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

REGISTERED PROFESSIONAL ENGINEER — SEAL 023311 — ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA C2

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790550

SHEET 151 OF 196

ED101-C2

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 1 - AREA D2

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

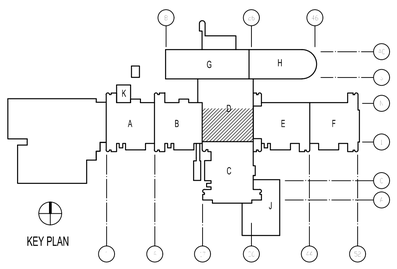
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*NOTES ABOVE NOT INDICATED ON ALL PLANS

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

05/23/19 SEAL

CBHF Engineers, PLLC
2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
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NC# P-0506 A/E INFO

APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB

BRANCH MANAGER JAZ

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA D2

SCALE: AS NOTED

EPROJECT NO.:

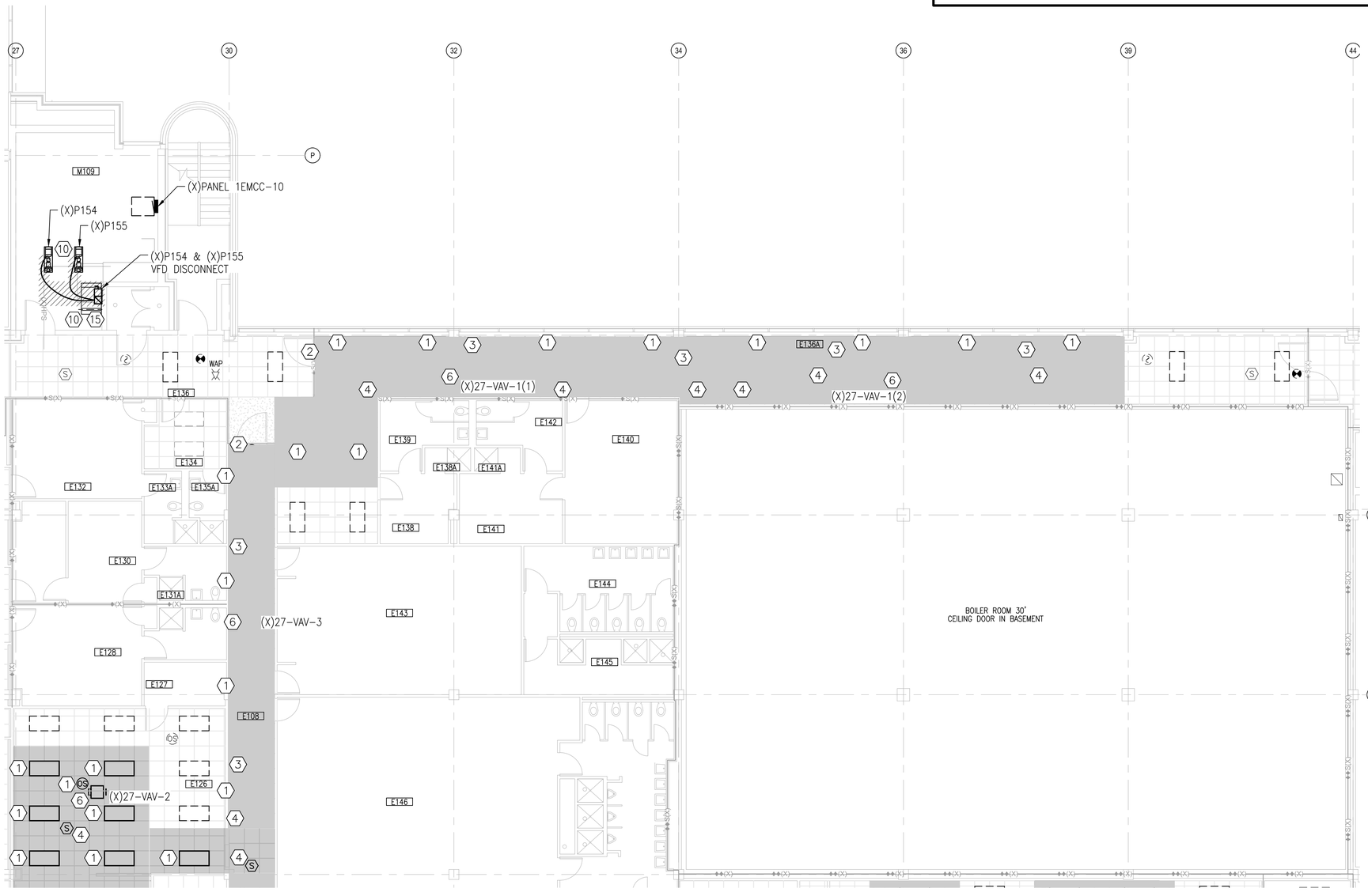
CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790551

SHEET 152 OF 196

ED101-D2

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 1 - AREA E1

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

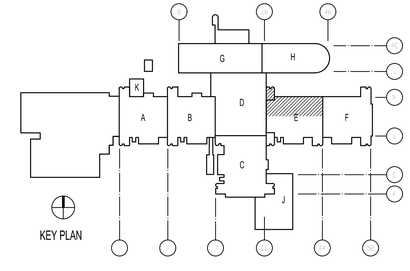
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SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 023311 ENGINEER W. ALLEN CRIBB

05/23/19 SEAL

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Wilmington, NC 28401
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Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA E1

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790552

SHEET 153 OF 196

ED101-E1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

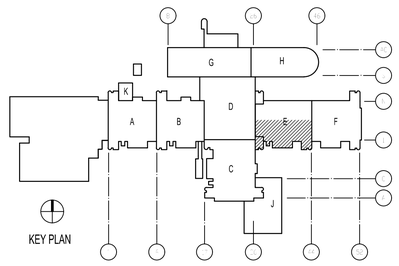
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KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

PARTIAL PLAN - LEVEL 1 - AREA E2

SCALE: 1/8"=1'-0"

PLAN NORTH

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN CRIBB

05/23/19 SEAL

CBHF Engineers, PLLC
2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfengineers.com

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NC# P4008
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	DRW	CHK
GAS	GAS	WAC

PM/DM DWB/KDB
BRANCH MANAGER JAZ
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

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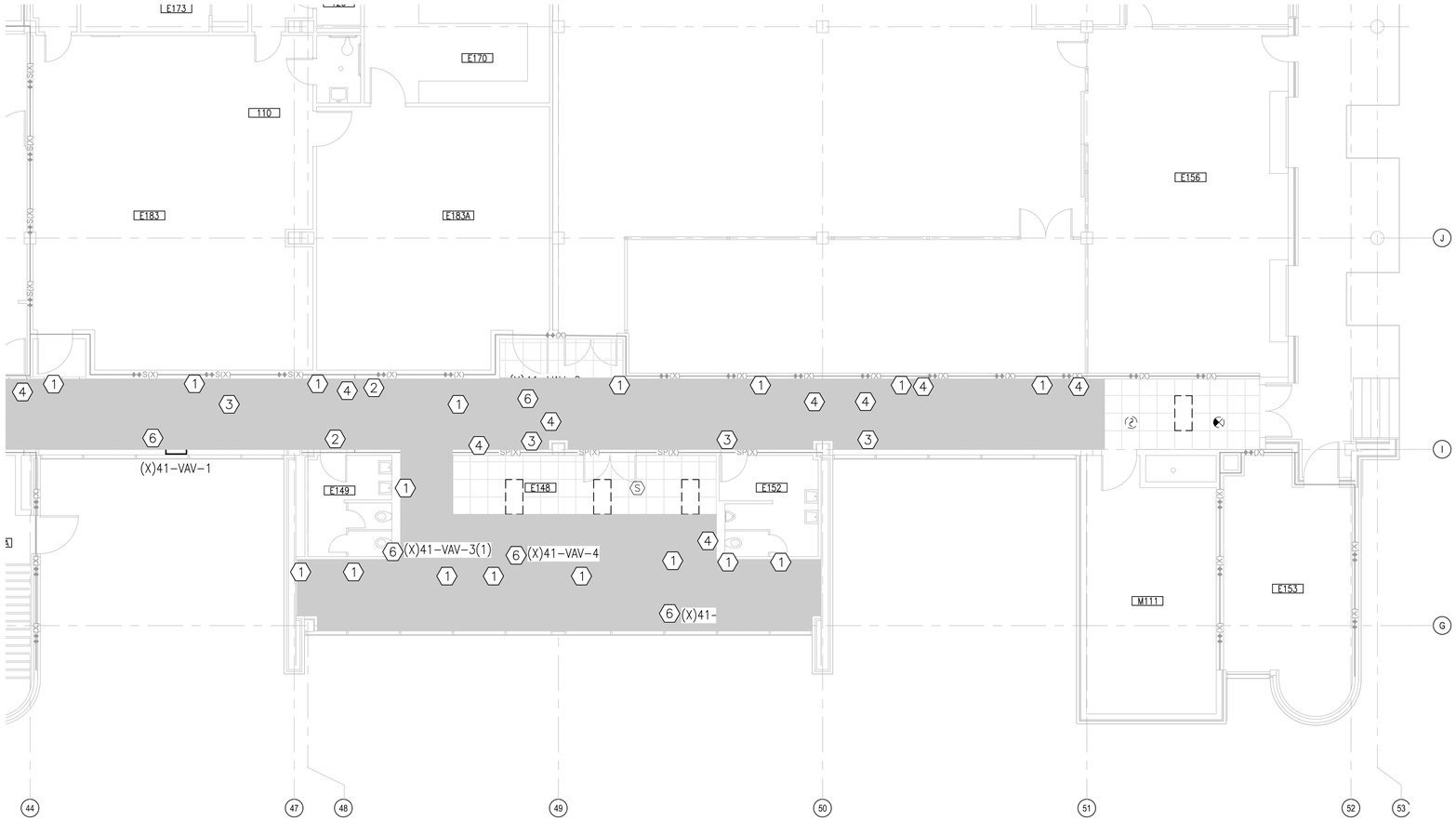
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA E2

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790553
SHEET 154 OF 196

ED101-E2

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 1 - AREA F2

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

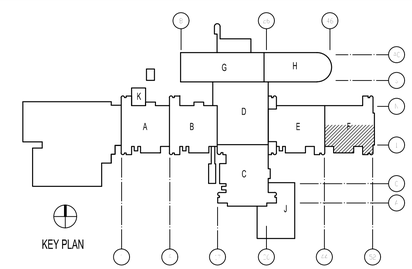
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APPR	DATE	DESCRIPTION	STM
	05.23.19	ISSUED FOR CONSTRUCTION	0

NAVFAC

JOHN ALLEN CRIBB NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 023311 ENGINEER W. ALLEN CRIBB

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

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PM/DM DWB/KDB

BRANCH MANAGER KDB

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U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA F2

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790554

SHEET 155 OF 196

ED101-F2

DRAWFORM REVISION: 31 JANUARY 2017

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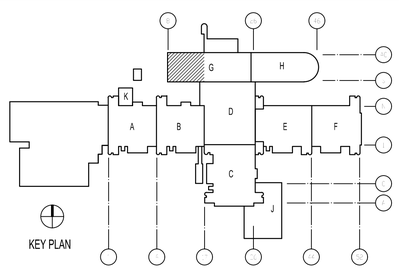


PARTIAL PLAN - LEVEL 1 - AREA G1

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



KEY PLAN

GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

05/23/19 SEAL

CBHF Engineers, PLLC
2246 Yaupon Drive
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NC# P-0606
A/E FIRM

APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY: YES DATE: 06/21/2019

DES: GAS DRW: GAS CHK: WAC
PM/DM: DWB/KDB
BRANCH MANAGER: JAB
CHIEF ENG/ARCH: EJA
FIRE PROTECTION: HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT
NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 – AREA G1

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12790555
SHEET 156 OF 196

ED101-G1

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 1 - AREA G2

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

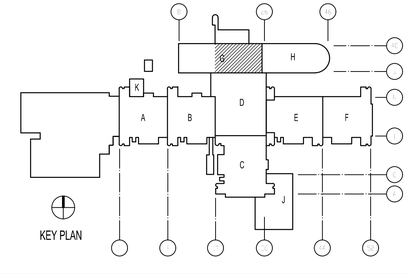
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DEMOLITION NOTES

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KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 WILLIAM ALLEN GRIBB

05/23/19 SEAL

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www.cbhfengineers.com

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH					EJA
FIRE PROTECTION					HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA G2

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790556
SHEET	157 OF 196

ED101-G2

DRAWFORM REVISION: 31 JANUARY 2017

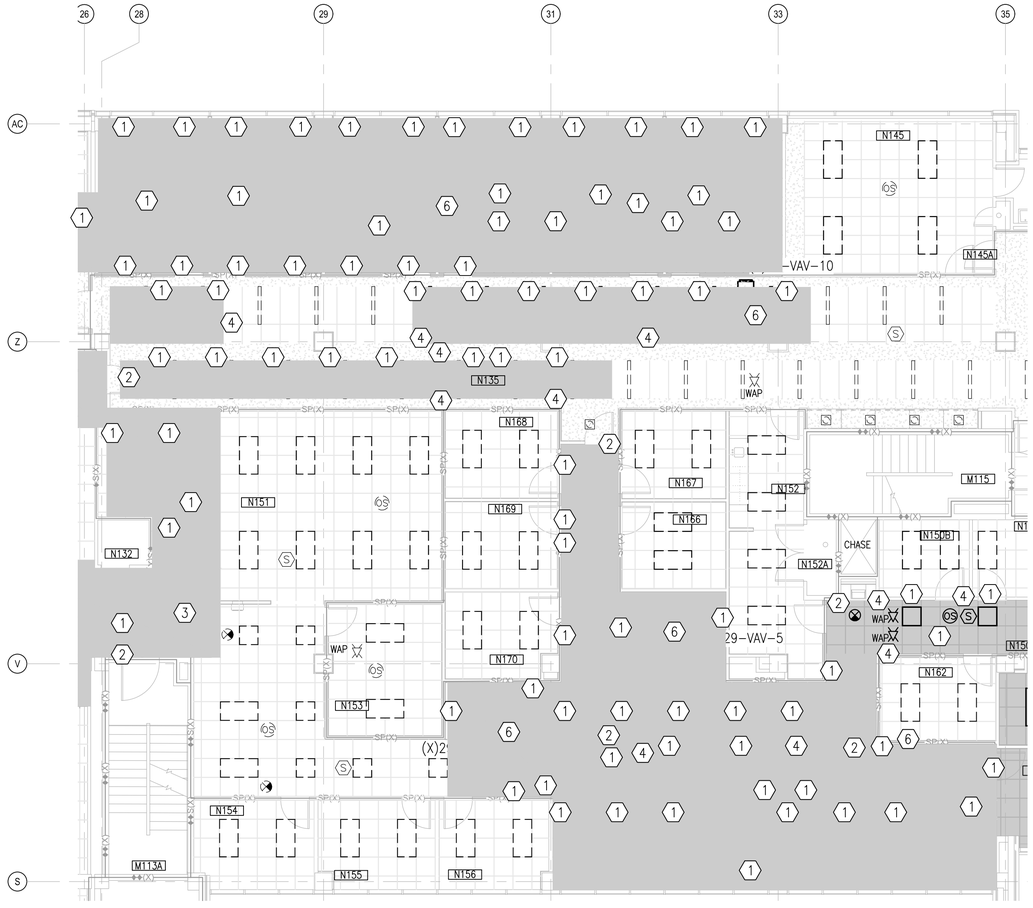
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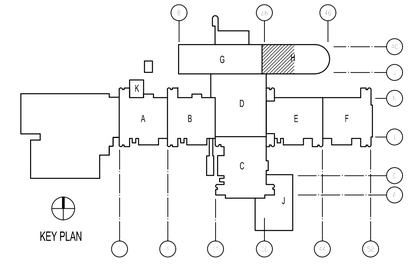


PARTIAL PLAN - LEVEL 1 - AREA H1

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN CRIBB

05/23/19 SEAL

CBHF Engineers, PLLC
2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfengineers.com

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NC# P4206
A/E INFO

APPROVED

FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS
U.S. MARINE CORPS
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA H1

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790557

SHEET 158 OF 196

ED101-H1

DRAWFORM REVISION: 31 JANUARY 2017

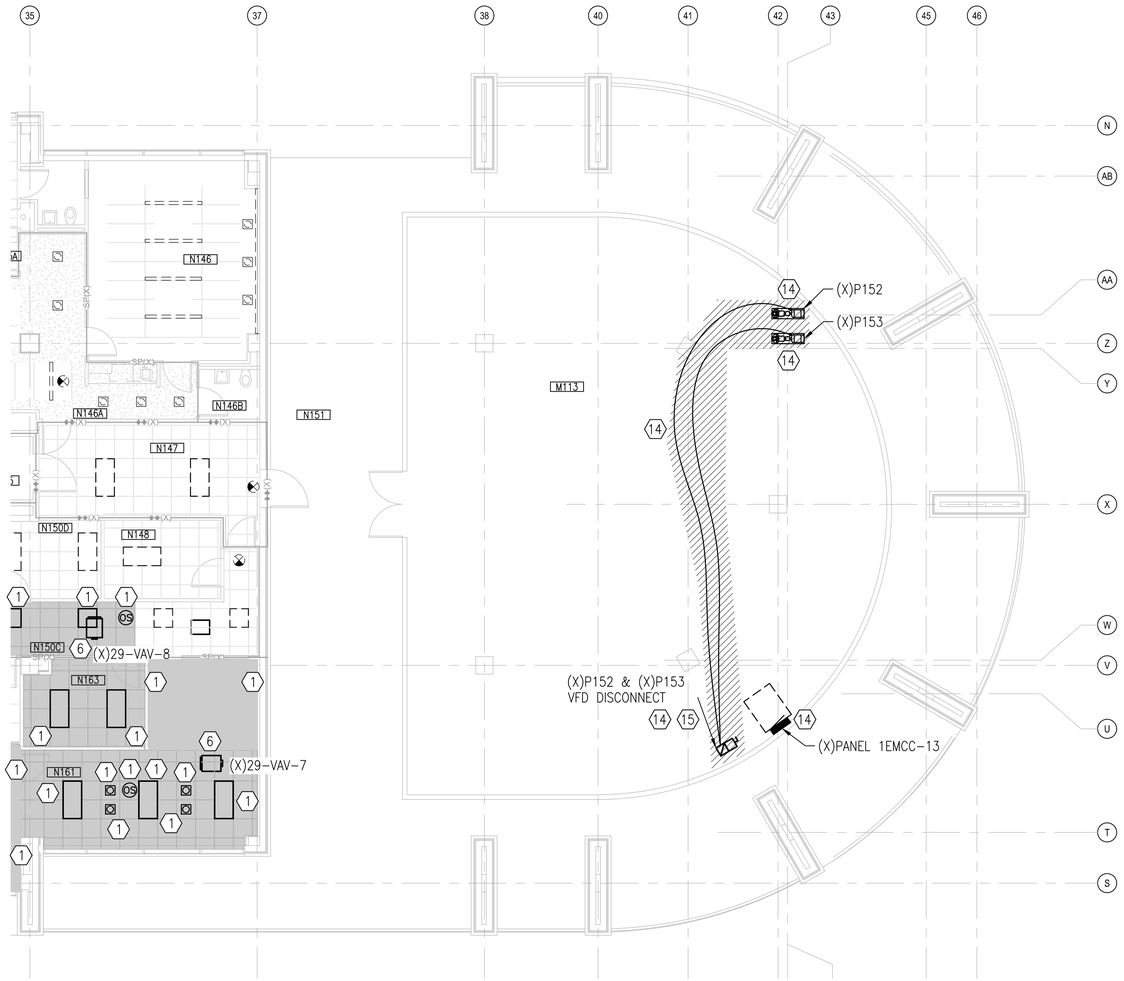
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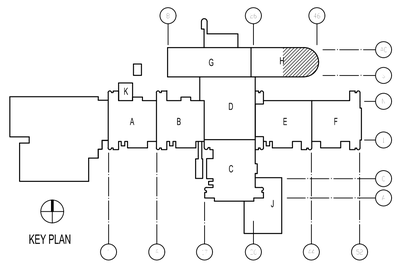


PARTIAL PLAN - LEVEL 1 - AREA H2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

0	ISSUED FOR CONSTRUCTION	05.23.19	APPR

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 W. ALLEN CRIBB

05/23/19 SEAL

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NC# P4008
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	DRW	CHK
GAS	GAS	WAC

PM/DM DWB/KDB
BRANCH MANAGER JAZ
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 1 - AREA H2

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790558
SHEET 159 OF 196

ED101-H2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

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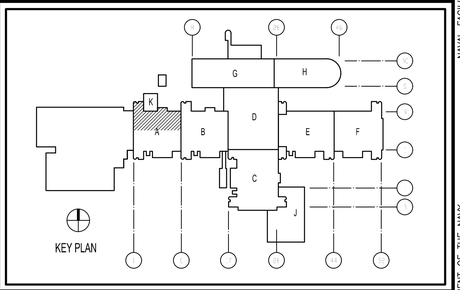


PARTIAL PLAN - LEVEL 2 - AREA A1

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

0	ISSUED FOR CONSTRUCTION	05.23.19	APPR

NAVFAC

JOHN ALLEN GRIGG — 023311 — SEAL — ENGINEER — 05/23/19 SEAL

CBHF Engineers, PLLC
2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
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NC# P-0506 A/E INFO

APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES GAS | DRW GAS | CHK WAC

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 2 - AREA A1

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790559

SHEET 160 OF 196

ED102-A1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
2. CEILING DEMOLITION SHADING IS A SUGGESTED AREA AND ACTUAL DEMOLITION AREA MAY BE LESS OR GREATER THAN SPECIFIED AREA. CONTRACTOR SHALL COORDINATE FINAL DEMOLITION AREA NEEDED BASED UPON FIELD CONDITIONS AS WELL AS MATERIALS TO BE INSTALLED.
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DEMOLITION NOTES

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6. VAV BOX: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS FROM VAV BOX TO CLOSEST POINT OF USE. ALL REMAINING DEVICES ON CIRCUIT SHALL REMAIN OPERATIONAL DURING DEMOLITION AND CONSTRUCTION.
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*NOTES ABOVE NOT INDICATED ON ALL PLANS

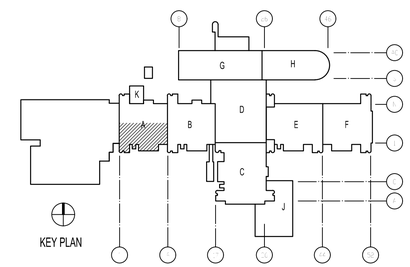


PARTIAL PLAN - LEVEL 2 - AREA A2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

0	ISSUED FOR CONSTRUCTION	05.23.19	APPR

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 W. ALLEN GRIBB

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE: 05/31/2019

DES.	GAS	DRW	GAS
CHK	WAC	PM/DM	DWB/KDB
BRANCH MANAGER			JAB
CHIEF ENG/ARCH			EJA
FIRE PROTECTION			HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 2 – AREA A2

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790560
SHEET	161 OF 196

ED102-A2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

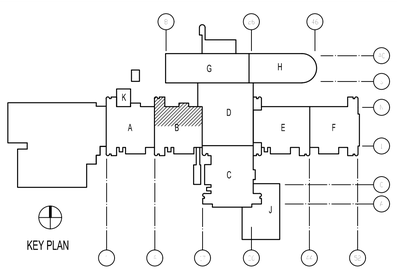
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KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"



PARTIAL PLAN - LEVEL 2 - AREA B1

SCALE: 1/8"=1'-0"

PLAN NORTH

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIGG

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE: 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH			EJA		
FIRE PROTECTION			HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 2 – AREA B2

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790561
SHEET	162 OF 196

ED102-B1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

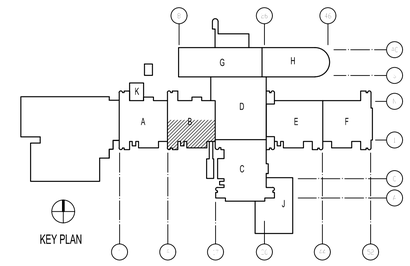
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KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

PARTIAL PLAN - LEVEL 2 - AREA B2

SCALE: 1/8"=1'-0"

PLAN NORTH

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

KARL ALLEN GRIGG — REGISTERED PROFESSIONAL ENGINEER — SEAL 023311 — ENGINEER — WALLEN GRIGG

05/23/19 SEAL

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Phone: 910.791.4000
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NC# P-0606 A/E INC.

APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB

BRANCH MANAGER JAZ

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 2 - AREA B2

SCALE: AS NOTED

EPROJECT NO.:

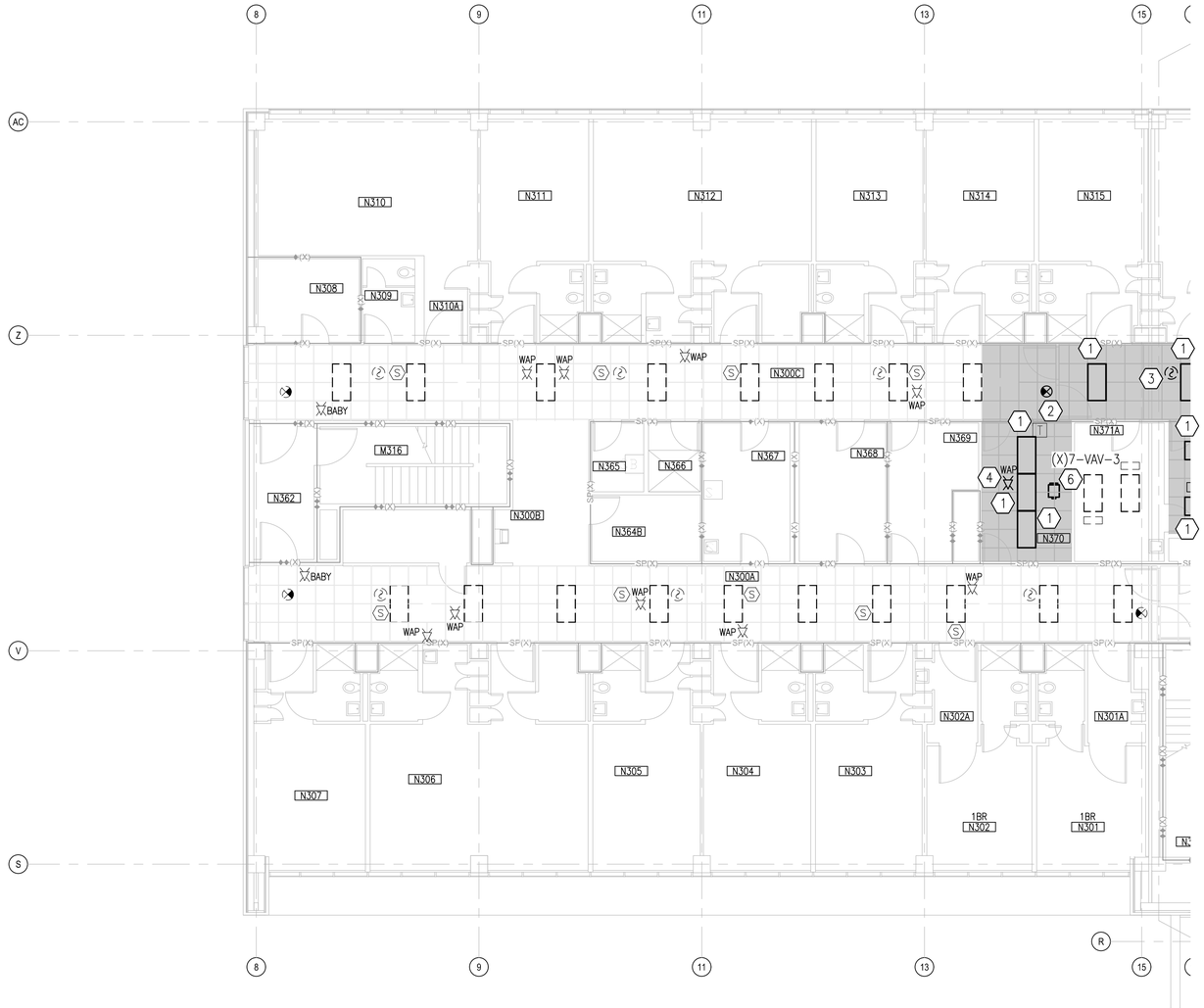
CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790562

SHEET 163 OF 196

ED102-B2

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 3 - AREA G1

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

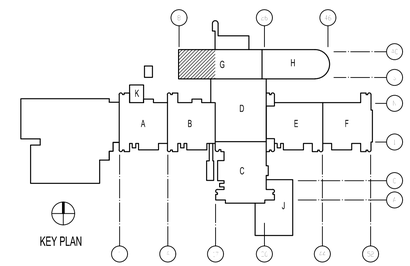
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KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

CBHF Engineers, PLLC
2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED

FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES GAS | DRW GAS | CHK WAC

PM/DM DWB/KDB

BRANCH MANAGER JAB

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
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NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
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REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 3 – AREA G1

SCALE: AS NOTED

EPROJECT NO.:

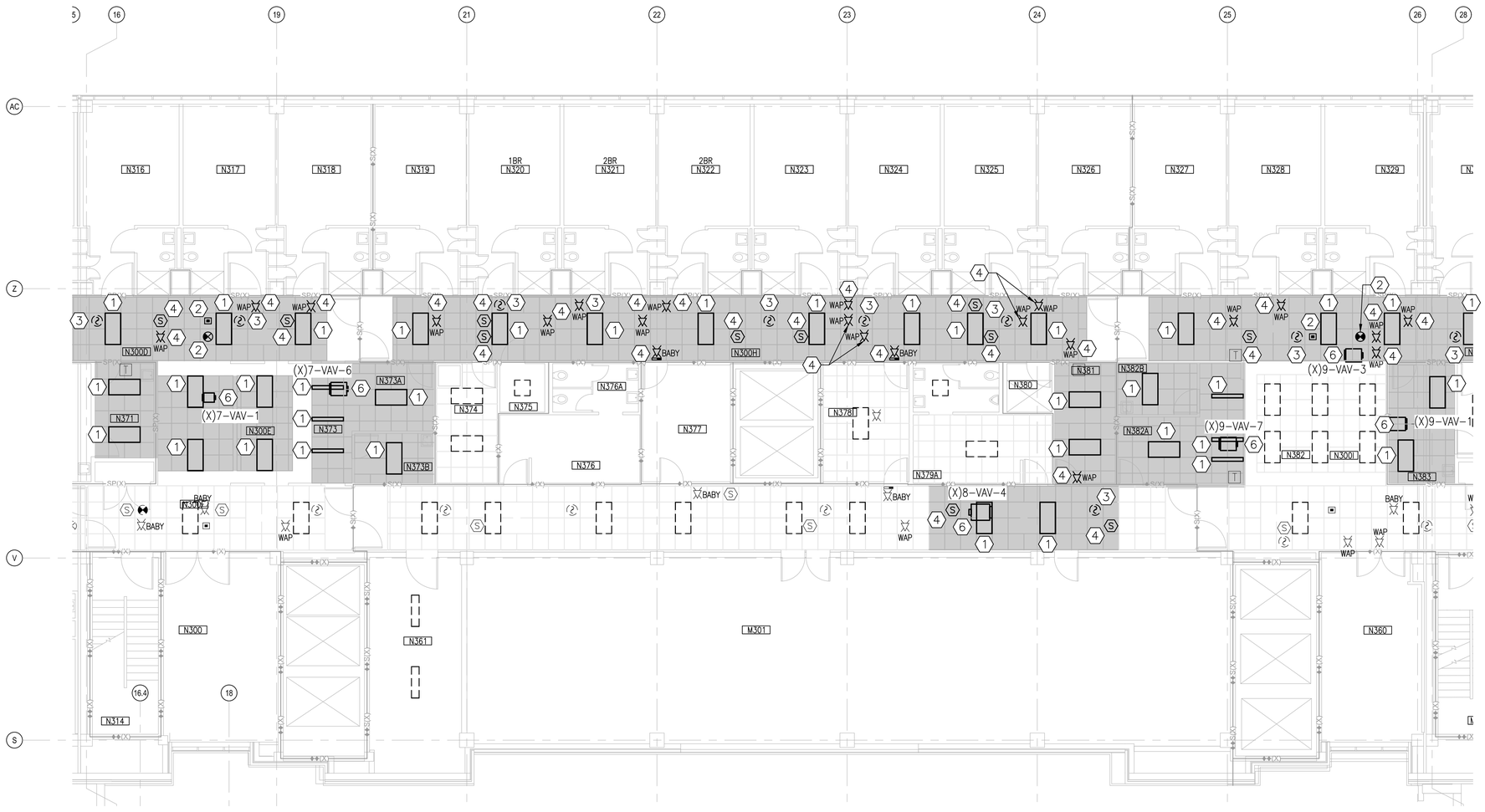
CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790563

SHEET 164 OF 196

ED103-G1

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 3 - AREA G2

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

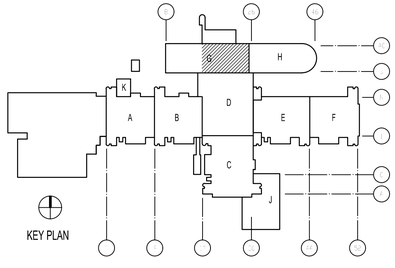
1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
2. CEILING DEMOLITION SHADING IS A SUGGESTED AREA AND ACTUAL DEMOLITION AREA MAY BE LESS OR GREATER THAN SPECIFIED AREA. CONTRACTOR SHALL COORDINATE FINAL DEMOLITION AREA NEEDED BASED UPON FIELD CONDITIONS AS WELL AS MATERIALS TO BE INSTALLED.
3. PORTIONS OF NH100 WILL BE BLOCKED OFF DURING DEMOLITION AND CONSTRUCTION. EXIT SIGNS IN THE ADJACENT CORRIDORS WILL NEED TO BE MODIFIED WITH TEMPORARY SIGNAGE DIRECTING OCCUPANTS TO EXIT AROUND THE CLOSED CORRIDORS.

DEMOLITION NOTES

1. LIGHT FIXTURES AND OCCUPANCY SENSORS: PROTECT AND SECURE EXISTING DEVICE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
2. EXIT SIGNS AND ROOM IN USE FIXTURES: PROTECT AND SECURE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
3. FIRE ALARM DEVICES: PROTECT AND SECURE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
4. SPEAKERS, CAMERAS, WAPS: PROTECT AND SECURE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
5. LIGHTING DEVICES IN GYPSUM CEILING: IDENTIFY AND PROTECT CONDUIT AND CONDUCTORS PRIOR TO DEMOLITION. COORDINATE WITH CONTRACTING OFFICER TO REMOVE FIXTURE AND LAMPS, STORE FOR REUSE.
6. VAV BOX: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS FROM VAV BOX TO CLOSEST POINT OF USE. ALL REMAINING DEVICES ON CIRCUIT SHALL REMAIN OPERATIONAL DURING DEMOLITION AND CONSTRUCTION.
7. CEILING DATA OUTLET: SECURE DATA OUTLET AND PROTECT IN PLACE DURING DEMOLITION.
8. CEILING EQUIPMENT CORD: UNPLUG EQUIPMENT CORD FROM RECEPTACLE ABOVE CEILING AND STORE WITH EQUIPMENT DURING DEMOLITION. REMOVE RECEPTACLE BOX, CONDUCTORS AND CONDUIT SHALL REMAIN FOR RELOCATION OF RECEPTACLE.
9. CEILING PROJECTOR: COORDINATE WITH CONTRACTING OFFICER TO REMOVE AND STORE DEVICES FOR REUSE AFTER DEMOLITION.
10. PUMPS (X)P154 & (X)P155 VFD DISCONNECT: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS COMPLETE FROM EQUIPMENT TO SOURCE. PROTECT BREAKER DURING DEMOLITION FOR RE-USE. COORDINATE WITH MECHANICAL CONTRACTOR ON THE REMOVAL OF CONTROL CONDUIT AND CONDUCTORS.
11. FLUSH MOUNTED CEILING RECEPTACLE: PROTECT AND SECURE EXISTING DEVICE IN PLACE DURING DEMOLITION IN AREA INDICATED BY SHADING.
12. SPEAKER/CAMERAS IN GYPSUM CEILING: IDENTIFY AND PROTECT WIRING PRIOR TO DEMOLITION. COORDINATE WITH CONTRACTING OFFICER TO REMOVE AND STORE DEVICES FOR REUSE.
13. CEILING MOUNTED MICROPHONES: IDENTIFY AND PROTECT WIRING PRIOR TO DEMOLITION. COORDINATE WITH CONTRACTING OFFICER TO REMOVE AND STORE DEVICES FOR REUSE.
14. PUMPS (X)P152 & (X)P153 VFD DISCONNECT: DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS COMPLETE FROM EQUIPMENT TO SOURCE. PROTECT BREAKER DURING DEMOLITION FOR RE-USE. COORDINATE WITH MECHANICAL CONTRACTOR ON THE REMOVAL OF CONTROL CONDUIT AND CONDUCTORS.
15. PUMP VFD DISCONNECT: CONTRACTOR SHALL REMOVE VFD DISCONNECT AND DELIVER TO CONTRACTING OFFICER.

*NOTES ABOVE NOT INDICATED ON ALL PLANS

KEY PLAN



KEY PLAN

GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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www.cbhfengineers.com

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB

BRANCH MANAGER KDB

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
MARINE CORE IPT
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 3 - AREA G2

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790564

SHEET 165 OF 196

ED103-G2

DRAWFORM REVISION: 31 JANUARY 2017

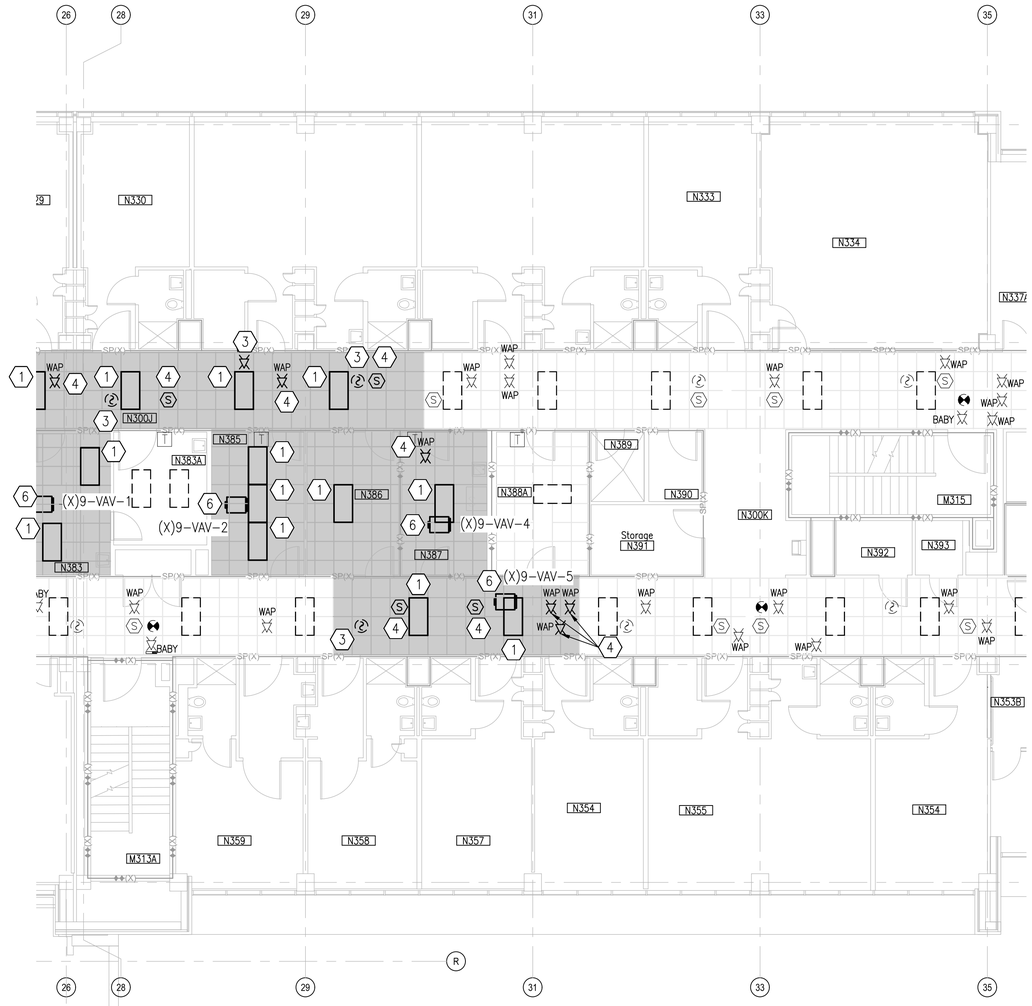
GENERAL NOTES

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DEMOLITION NOTES

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15. PUMP VFD DISCONNECT: CONTRACTOR SHALL REMOVE VFD DISCONNECT AND DELIVER TO CONTRACTING OFFICER.

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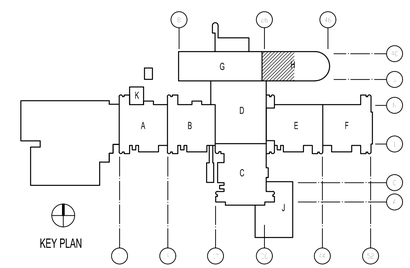


PARTIAL PLAN - LEVEL 3 - AREA H1

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

0	ISSUED FOR CONSTRUCTION	05.23.19	APPR

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN CRIBB

05/23/19 SEAL

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www.cbhfengineers.com

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APPROVED

FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB

BRANCH MANAGER KDB

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL DEMOLITION PLAN
LEVEL 3 - AREA H1

SCALE: AS NOTED

EPROJECT NO.:

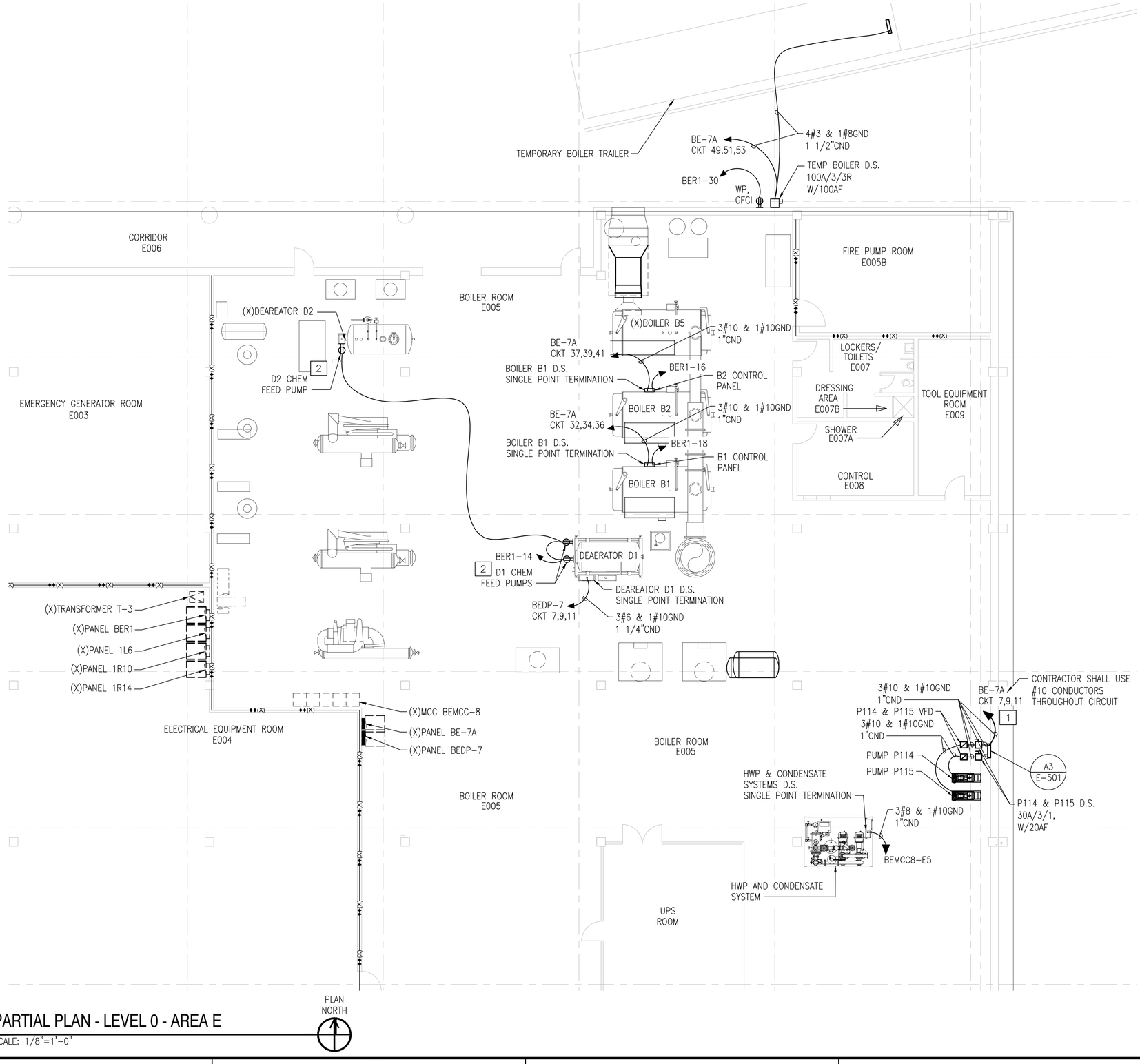
CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790565

SHEET 166 OF 196

ED103-H1

DRAWFORM REVISION: 31 JANUARY 2017



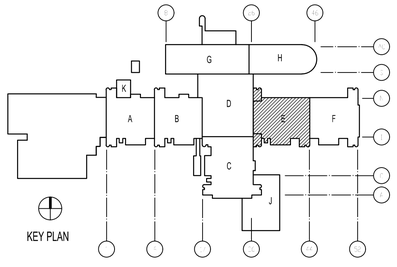
PARTIAL PLAN - LEVEL 0 - AREA E

SCALE: 1/8"=1'-0"

KEYED NOTES

1. PUMPS P114 & P115 DISCONNECT SWITCH AND VFD: CONTRACTOR SHALL EXTEND CONDUIT PROTECTED DURING DEMOLITION AND CONSTRUCTION AS REQUIRED INTO WIREWAY.
2. CHEM FEED PUMPS: CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR ON LOCATION AND TERMINATION REQUIREMENTS FOR CHEM PUMP FEED SYSTEMS.

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	JLC	DRW	JLG	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER	JAB				
CHIEF ENG/ARCH	EJA				
FIRE PROTECTION	HPN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL BOILER ROOM PLAN
LEVEL 0 - AREA E

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790566
SHEET	167 OF 196

E-100-E1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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KEYED NOTES

1. LIGHT FIXTURES AND OCCUPANCY SENSORS: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
2. EXIT SIGNS AND ROOM IN USE FIXTURES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
3. FIRE ALARM DEVICES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
4. SPEAKERS, CAMERAS, WAP'S: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
5. LIGHTING DEVICES IN GYPSUM CEILING: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT CONDUIT AND CONDUCTORS PROTECTED DURING DEMOLITION.
6. VAV BOX: PROVIDE 20 AMP SINGLE POLE SWITCH. CONNECT VAV TO SWITCH WITH 2#12 & 1#12 GND – 3/4" CND. FEED FROM CIRCUIT INDICATED WITH 2#10 & 1#10 GND – 3/4" CND.
7. CEILING DATA OUTLET: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
8. CEILING EQUIPMENT CORD: PROVIDE CEILING MOUNTED RECEPTACLE AND EXTEND CONDUIT AND CONDUCTORS. RECONNECT EQUIPMENT CORD TO CEILING RECEPTACLE. DEVICE SHALL NOT BE ABOVE CEILING. RECEPTACLE SHALL MATCH PLUG ARRANGEMENT.
9. CEILING PROJECTOR: REINSTALL DEVICE AT LOCATION INDICATED.
10. P152 & P153: CONTRACTOR SHALL COORDINATE LOCATION OF EQUIPMENT RACK TO ALLOW FOR CLEARANCES IN FRONT AND OVERHEAD.
11. FLUSH MOUNTED CEILING RECEPTACLE: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
12. SPEAKER/CAMERAS IN GYPSUM CEILING: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT WIRING.
13. CEILING MOUNTED MICROPHONES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT WIRING.

*NOTES ABOVE NOT INDICATED ON ALL PLANS

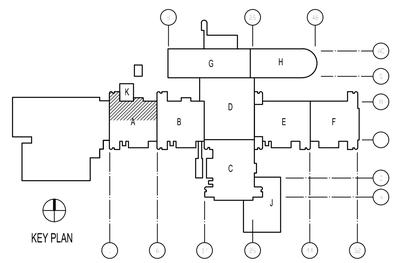


PARTIAL PLAN - LEVEL 1 - AREA A1

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 W. ALLEN GRIBB

05/23/19 SEAL

CBHF Engineers, PLLC
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Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH					EJA
FIRE PROTECTION					HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL HVAC PLAN
LEVEL 1 - AREA A1

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790567
SHEET	168 OF 196

E-101-A1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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KEYED NOTES

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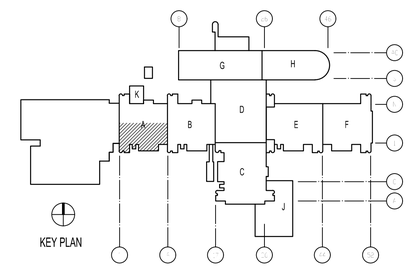


PARTIAL PLAN - LEVEL 1 - AREA A2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	STM

JOHN WILLIAM GARON, REGISTERED ARCHITECT, 023311, ENGINEER, WILLIAM CRIBB, SEAL, 05/23/19

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2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfengineers.com

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NCB P-0606
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE: 05/23/2019

DES. GAS	DRW GAS	CHK WAC
PM/DM DWB/KDB		
BRANCH MANAGER		
CHIEF ENG/ARCH	EJA	
FIRE PROTECTION	HPN	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
MARINE CORE IPT
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA A2

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790568
SHEET	169 OF 196

E-101-A2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

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4. SPEAKERS, CAMERAS, WAP'S: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
5. LIGHTING DEVICES IN GYPSUM CEILING: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT CONDUIT AND CONDUCTORS PROTECTED DURING DEMOLITION.
6. VAV BOX: PROVIDE 20 AMP SINGLE POLE SWITCH. CONNECT VAV TO SWITCH WITH 2#12 & 1#12 GND – 3/4" CND. FEED FROM CIRCUIT INDICATED WITH 2#10 & 1#10 GND – 3/4" CND.
7. CEILING DATA OUTLET: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
8. CEILING EQUIPMENT CORD: PROVIDE CEILING MOUNTED RECEPTACLE AND EXTEND CONDUIT AND CONDUCTORS. RECONNECT EQUIPMENT CORD TO CEILING RECEPTACLE. DEVICE SHALL NOT BE ABOVE CEILING. RECEPTACLE SHALL MATCH PLUG ARRANGEMENT.
9. CEILING PROJECTOR: REINSTALL DEVICE AT LOCATION INDICATED.
10. P152 & P153: CONTRACTOR SHALL COORDINATE LOCATION OF EQUIPMENT RACK TO ALLOW FOR CLEARANCES IN FRONT AND OVERHEAD.
11. FLUSH MOUNTED CEILING RECEPTACLE: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
12. SPEAKER/CAMERAS IN GYPSUM CEILING: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT WIRING.
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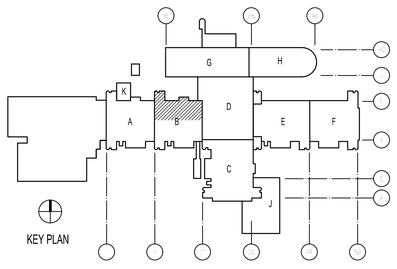
*NOTES ABOVE NOT INDICATED ON ALL PLANS



PARTIAL PLAN - LEVEL 1 - AREA B1

SCALE: 1/8"=1'-0"

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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2246 Yaupon Drive
Wilmington, NC 28401
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Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER	JAE				
CHIEF ENG/ARCH	EJA				
FIRE PROTECTION	HPN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA B1

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790569
SHEET	170 OF 196

E-101-B1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
2. CEILING DEMOLITION SHADING IS A SUGGESTED AREA AND ACTUAL DEMOLITION AREA MAY BE LESS OR GREATER THAN SPECIFIED AREA. CONTRACTOR SHALL COORDINATE FINAL DEMOLITION AREA NEEDED BASED UPON FIELD CONDITIONS AS WELL AS MATERIALS TO BE INSTALLED.
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KEYED NOTES

1. LIGHT FIXTURES AND OCCUPANCY SENSORS: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
2. EXIT SIGNS AND ROOM IN USE FIXTURES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
3. FIRE ALARM DEVICES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
4. SPEAKERS, CAMERAS, WAP'S: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
5. LIGHTING DEVICES IN GYPSUM CEILING: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT CONDUIT AND CONDUCTORS PROTECTED DURING DEMOLITION.
6. VAV BOX: PROVIDE 20 AMP SINGLE POLE SWITCH. CONNECT VAV TO SWITCH WITH 2#12 & 1#12 GND – 3/4" CND. FEED FROM CIRCUIT INDICATED WITH 2#10 & 1#10 GND – 3/4" CND.
7. CEILING DATA OUTLET: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
8. CEILING EQUIPMENT CORD: PROVIDE CEILING MOUNTED RECEPTACLE AND EXTEND CONDUIT AND CONDUCTORS. RECONNECT EQUIPMENT CORD TO CEILING RECEPTACLE. DEVICE SHALL NOT BE ABOVE CEILING. RECEPTACLE SHALL MATCH PLUG ARRANGEMENT.
9. CEILING PROJECTOR: REINSTALL DEVICE AT LOCATION INDICATED.
10. P152 & P153: CONTRACTOR SHALL COORDINATE LOCATION OF EQUIPMENT RACK TO ALLOW FOR CLEARANCES IN FRONT AND OVERHEAD.
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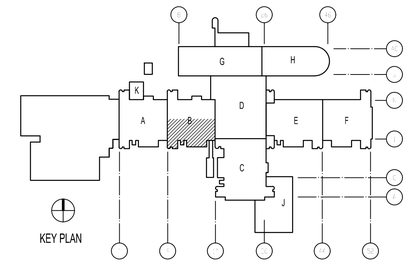


PARTIAL PLAN - LEVEL 1 - AREA B2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

KURT A. GASKINS — REGISTERED PROFESSIONAL ENGINEER — SEAL 023311 — ENGINEER W. ALLEN GRIER — 05/23/19 SEAL

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Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED
FOR COMMANDER NAVFAC 7/1/2019
ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH					EJA
FIRE PROTECTION					HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
U.S. MARINE CORPS
MARINE CORPS BASE CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN LEVEL 1 – AREA B2

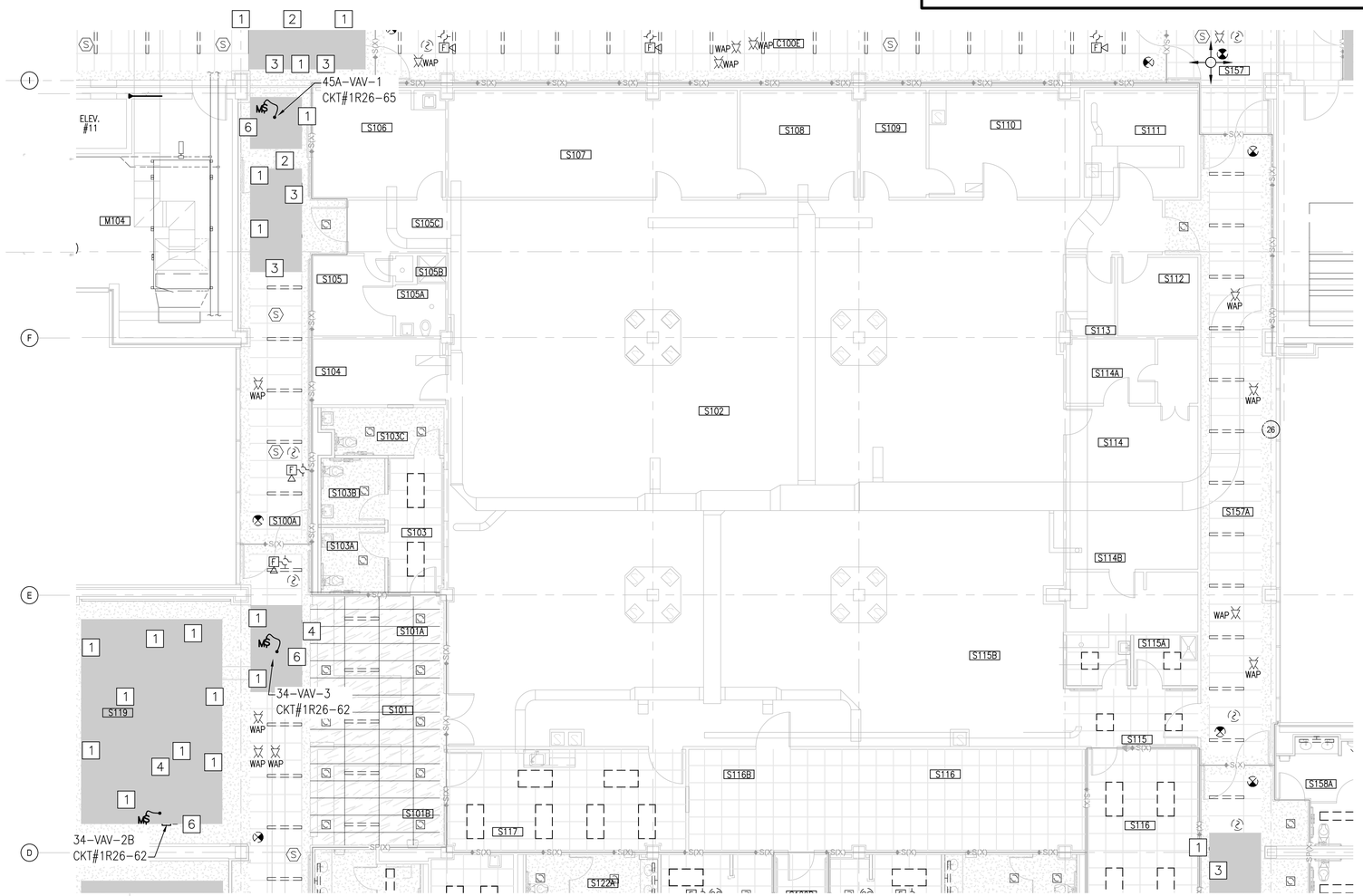
SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790570
SHEET 171 OF 196

E-101-B2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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PARTIAL PLAN - LEVEL 1 - AREA C1

SCALE: 1/8"=1'-0"

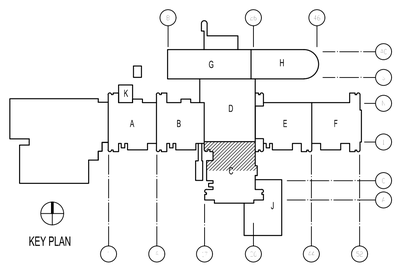
PLAN NORTH

KEYED NOTES

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*NOTES ABOVE NOT INDICATED ON ALL PLANS

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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www.cbhfengineers.com

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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH			EJA		
FIRE PROTECTION			HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA C1

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790571
SHEET	172 OF 196

E-101-C1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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PARTIAL PLAN - LEVEL 1 - AREA C2

SCALE: 1/8"=1'-0"

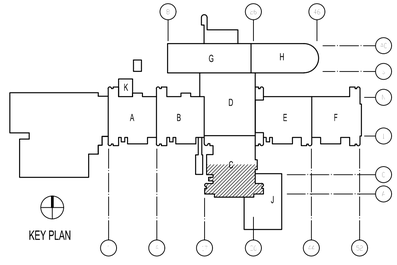
PLAN NORTH

KEYED NOTES

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*NOTES ABOVE NOT INDICATED ON ALL PLANS

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

05/23/19 SEAL

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Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfengineers.com

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NC# P-0606
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES GAS | DRW GAS | CHK WAC
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA C2

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12790572
SHEET 173 OF 196

E-101-C2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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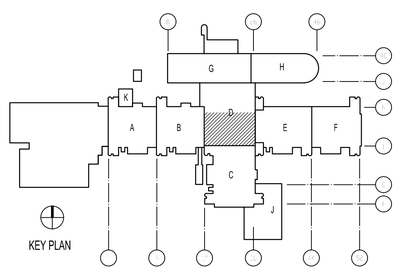
*NOTES ABOVE NOT INDICATED ON ALL PLANS



PARTIAL PLAN - LEVEL 1 - AREA D2

SCALE: 1/8"=1'-0"

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

05/23/19 SEAL

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Wilmington, NC 28401
Phone: 910.791.4000
Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE = 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH					EJA
FIRE PROTECTION					HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

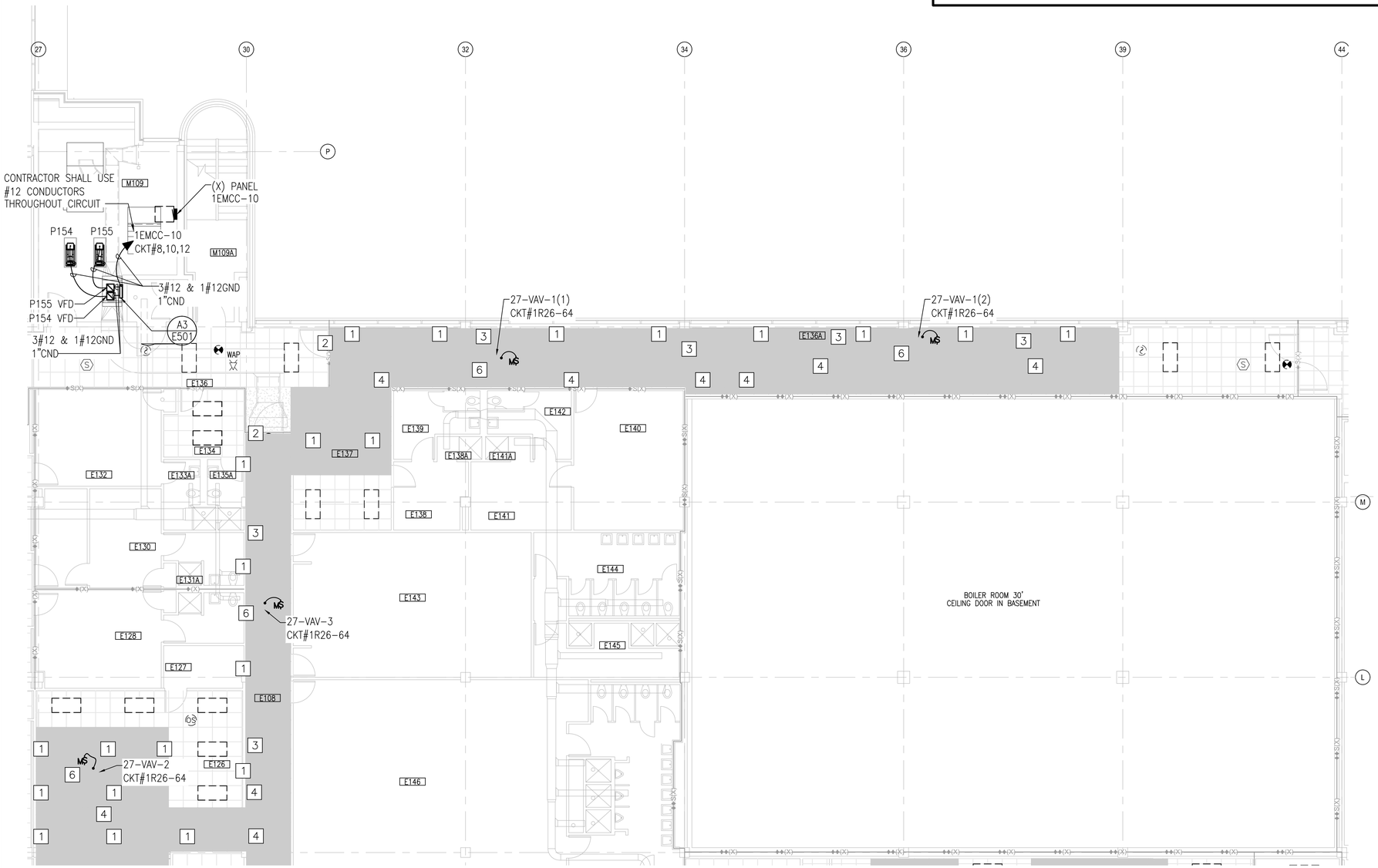
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA D2

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790573
SHEET	174 OF 196

E-101-D2

DRAWFORM REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 1 - AREA E1

SCALE: 1/8"=1'-0"

PLAN NORTH

GENERAL NOTES

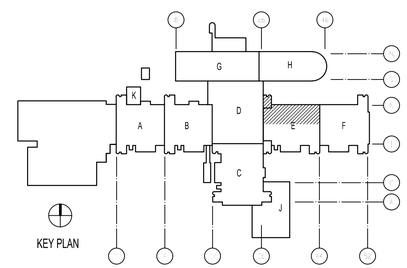
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5. LIGHTING DEVICES IN GYPSUM CEILING: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT CONDUIT AND CONDUCTORS PROTECTED DURING DEMOLITION.
6. VAV BOX: PROVIDE 20 AMP SINGLE POLE SWITCH. CONNECT VAV TO SWITCH WITH 2#12 & 1#12 GND – 3/4" CND. FEED FROM CIRCUIT INDICATED WITH 2#10 & 1#10 GND – 3/4" CND.
7. CEILING DATA OUTLET: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
8. CEILING EQUIPMENT CORD: PROVIDE CEILING MOUNTED RECEPTACLE AND EXTEND CONDUIT AND CONDUCTORS. RECONNECT EQUIPMENT CORD TO CEILING RECEPTACLE. DEVICE SHALL NOT BE ABOVE CEILING. RECEPTACLE SHALL MATCH PLUG ARRANGEMENT.
9. CEILING PROJECTOR: REINSTALL DEVICE AT LOCATION INDICATED.
10. P152 & P153: CONTRACTOR SHALL COORDINATE LOCATION OF EQUIPMENT RACK TO ALLOW FOR CLEARANCES IN FRONT AND OVERHEAD.
11. FLUSH MOUNTED CEILING RECEPTACLE: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
12. SPEAKER/CAMERAS IN GYPSUM CEILING: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT WIRING.
13. CEILING MOUNTED MICROPHONES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT WIRING.

*NOTES ABOVE NOT INDICATED ON ALL PLANS

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

0	ISSUED FOR CONSTRUCTION	05.23.19	APPR

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES GAS | DRW GAS | CHK WAC
PM/DM DWB/KDB
BRANCH MANAGER jar
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA E1

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790574
SHEET 175 OF 196

E-101-E1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
2. CEILING DEMOLITION SHADING IS A SUGGESTED AREA AND ACTUAL DEMOLITION AREA MAY BE LESS OR GREATER THAN SPECIFIED AREA. CONTRACTOR SHALL COORDINATE FINAL DEMOLITION AREA NEEDED BASED UPON FIELD CONDITIONS AS WELL AS MATERIALS TO BE INSTALLED.
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KEYED NOTES

1. LIGHT FIXTURES AND OCCUPANCY SENSORS: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
2. EXIT SIGNS AND ROOM IN USE FIXTURES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
3. FIRE ALARM DEVICES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
4. SPEAKERS, CAMERAS, WAP'S: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
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6. VAV BOX: PROVIDE 20 AMP SINGLE POLE SWITCH. CONNECT VAV TO SWITCH WITH 2#12 & 1#12 GND – 3/4" CND. FEED FROM CIRCUIT INDICATED WITH 2#10 & 1#10 GND – 3/4" CND.
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*NOTES ABOVE NOT INDICATED ON ALL PLANS

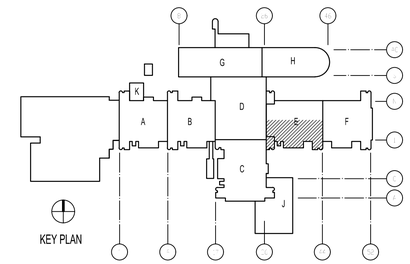


PARTIAL PLAN - LEVEL 1 - AREA E2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB 05/23/19 SEAL

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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES GAS | DRW GAS | CHK WAC
PM/DM DWB/KDB
BRANCH MANAGER JDB
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
DEPARTMENT OF THE NAVY
MARINE CORPS IPT
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA E2

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12790575
SHEET 176 OF 196

E-101-E2

DRAWFORM REVISION: 31 JANUARY 2017

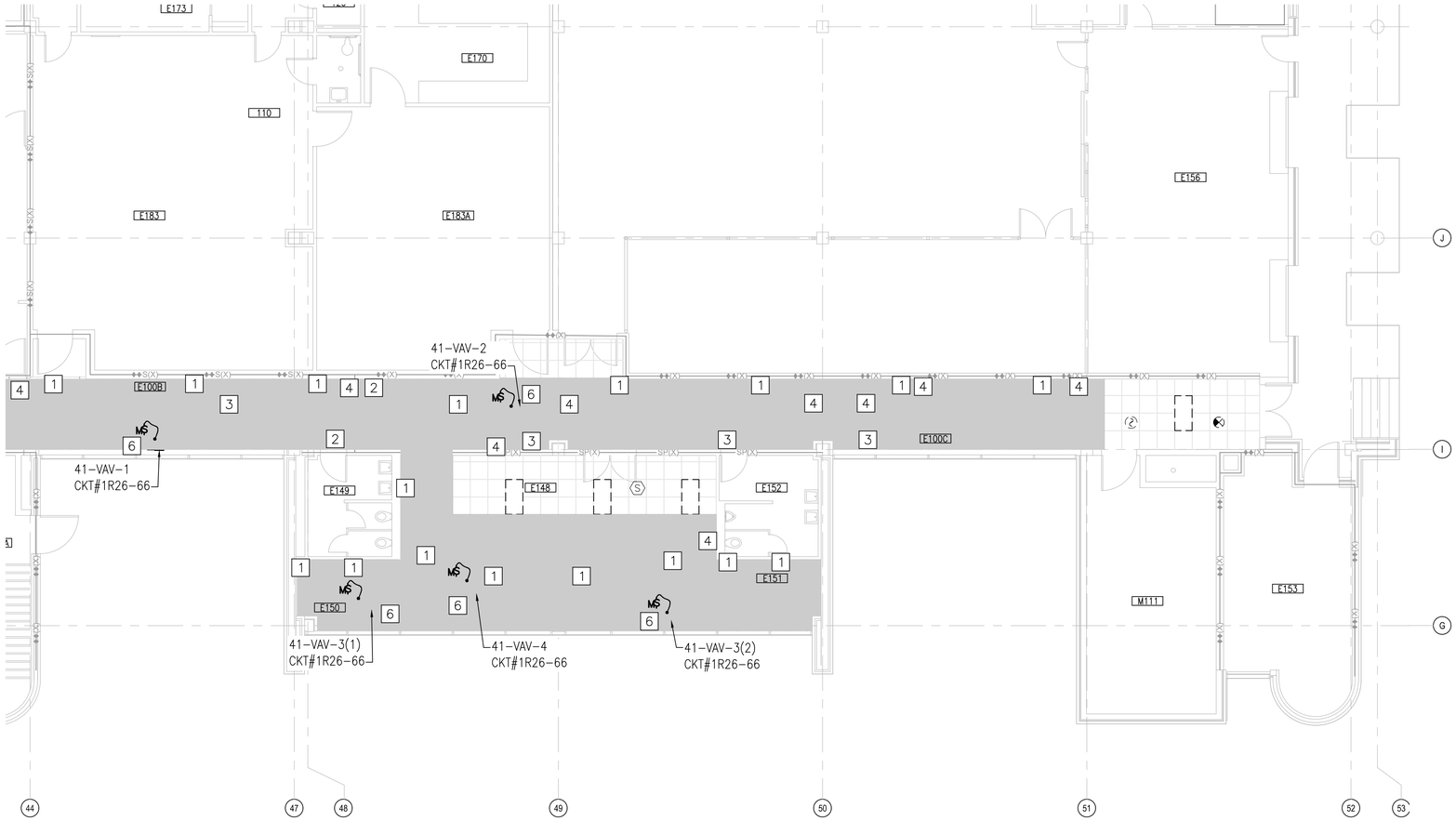
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KEYED NOTES

1. LIGHT FIXTURES AND OCCUPANCY SENSORS: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
2. EXIT SIGNS AND ROOM IN USE FIXTURES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
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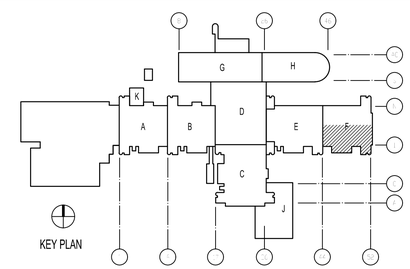


PARTIAL PLAN - LEVEL 1 - AREA F2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED

FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA F2

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790576

SHEET 177 OF 196

E-101-F2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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PLAN NORTH

PARTIAL PLAN - LEVEL 1 - AREA G1

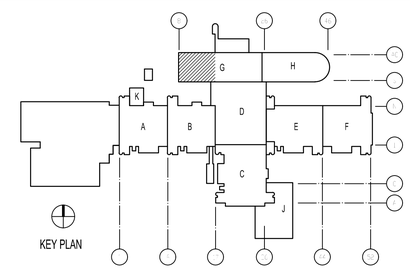
SCALE: 1/8"=1'-0"

KEYED NOTES

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*NOTES ABOVE NOT INDICATED ON ALL PLANS

KEY PLAN



KEY PLAN

GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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NC# P-0506
A/E INFO

APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE: 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH			EJA		
FIRE PROTECTION			HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA G1

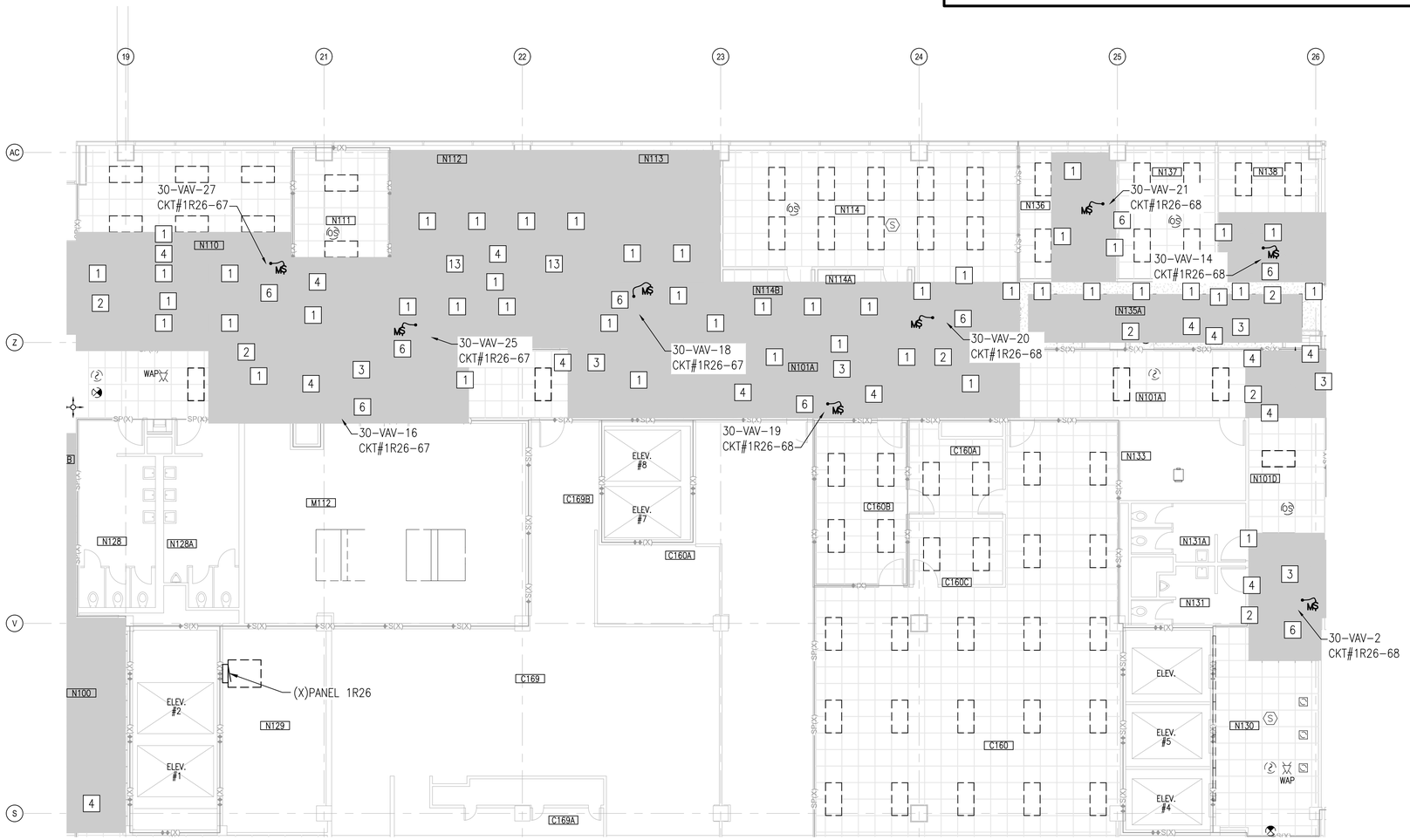
SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790577
SHEET	178 OF 196

E-101-G1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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PARTIAL PLAN - LEVEL 1 - AREA G2

SCALE: 1/8"=1'-0"

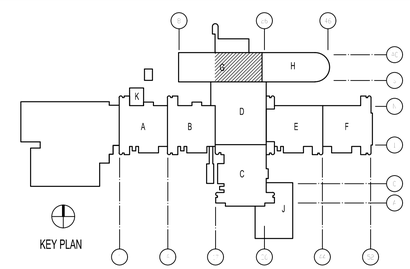
PLAN NORTH

KEYED NOTES

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*NOTES ABOVE NOT INDICATED ON ALL PLANS

KEY PLAN



KEY PLAN

GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

APPR	DATE	DESCRIPTION	SYM
	05.23.19	ISSUED FOR CONSTRUCTION	0

NAVFAC

JOHN W. ALLEN GRIBB — REGISTERED PROFESSIONAL ENGINEER — SEAL 023311 — ENGINEER W. ALLEN GRIBB — 05/23/19 SEAL

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Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED
FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH			EJA		
FIRE PROTECTION			HPN		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS IPT
U.S. MARINE CORPS
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA G2

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790578
SHEET	179 OF 196

E-101-G2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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12. SPEAKER/CAMERAS IN GYPSUM CEILING: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT WIRING.
13. CEILING MOUNTED MICROPHONES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT WIRING.

*NOTES ABOVE NOT INDICATED ON ALL PLANS

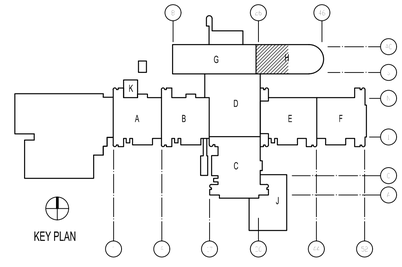


PARTIAL PLAN - LEVEL 1 - AREA H1

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

APPR	DATE	DESCRIPTION	SYM
	05.23.19	ISSUED FOR CONSTRUCTION	0

05/23/19 SEAL

CBHF Engineers, PLLC
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APPROVED
FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY 10 DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS IPT
U.S. MARINE CORPS
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA H1

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790579
SHEET 180 OF 196

E-101-H1

DRAWFORM REVISION: 31 JANUARY 2017

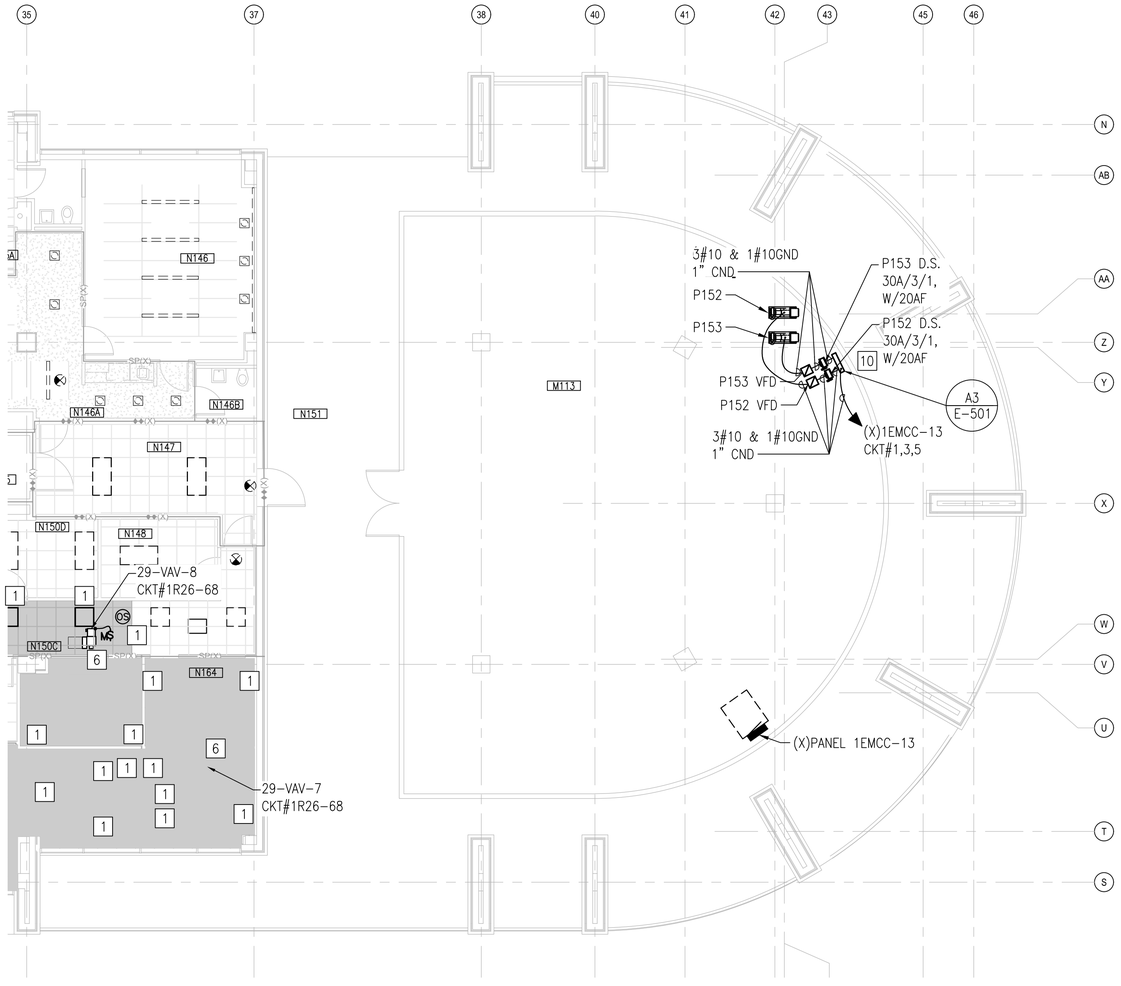
GENERAL NOTES

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KEYED NOTES

1. LIGHT FIXTURES AND OCCUPANCY SENSORS: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
2. EXIT SIGNS AND ROOM IN USE FIXTURES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
3. FIRE ALARM DEVICES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
4. SPEAKERS, CAMERAS, WAP'S: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
5. LIGHTING DEVICES IN GYPSUM CEILING: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED. RECONNECT CONDUIT AND CONDUCTORS PROTECTED DURING DEMOLITION.
6. VAV BOX: PROVIDE 20 AMP SINGLE POLE SWITCH. CONNECT VAV TO SWITCH WITH 2#12 & 1#12 GND – 3/4" CND. FEED FROM CIRCUIT INDICATED WITH 2#10 & 1#10 GND – 3/4" CND.
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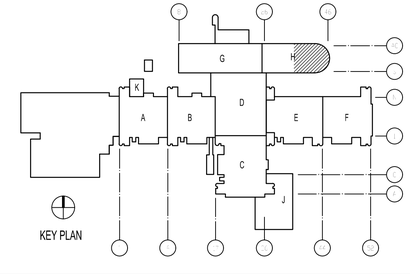


PARTIAL PLAN - LEVEL 1 - AREA H2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN CRIBB

05/23/19 SEAL

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2246 Yaupon Drive
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NC# P-0306
A/E INFO

APPROVED

FOR COMMANDER NAVFAC 7/9/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES GAS | DRW GAS | CHK WAC

PM/DM DWB/KDB

BRANCH MANAGER JAB

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 1 – AREA H2

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790580

SHEET 181 OF 196

E-101-H2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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KEYED NOTES

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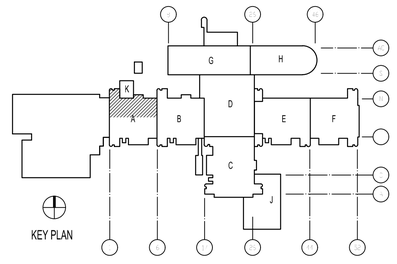
*NOTES ABOVE NOT INDICATED ON ALL PLANS



PARTIAL PLAN - LEVEL 2 - AREA A1

SCALE: 1/8"=1'-0"

PLAN NORTH



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIGG

05/23/19 SEAL

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www.cbhfengineers.com

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NC# P-0506
A/E INFO

APPROVED

FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS: IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 2 – AREA A1

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790581

SHEET 182 OF 196

E-102-A1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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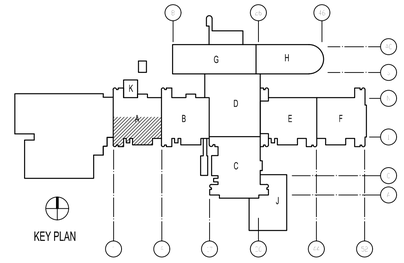
*NOTES ABOVE NOT INDICATED ON ALL PLANS



PARTIAL PLAN - LEVEL 2 - AREA A2

SCALE: 1/8"=1'-0"

PLAN NORTH



KEY PLAN

GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

APPR	DATE	DESCRIPTION	SYM
	05.23.19	ISSUED FOR CONSTRUCTION	0

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 WILLIAM ALLEN GRIGG

05/23/19 SEAL

CBHF Engineers, PLLC
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Wilmington, NC 28401
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Fax: 910.791.5266
www.cbhfengineers.com

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NC# P-0606
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH	EJA				
FIRE PROTECTION	HPN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 2 – AREA A2

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790582
SHEET	183 OF 196

E-102-A2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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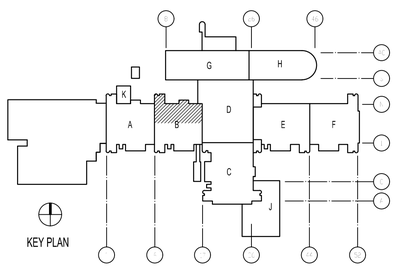
*NOTES ABOVE NOT INDICATED ON ALL PLANS



PARTIAL PLAN - LEVEL 2 - AREA B1

SCALE: 1/8"=1'-0"

PLAN NORTH



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

0	ISSUED FOR CONSTRUCTION	05.23.19	APPR

NAVFAC

IDAHO
KRISTY D. WILLIAMS
REGISTERED
PROFESSIONAL
ENGINEER
SEAL
023311
ENGINEER
W. ALLEN CRIBB

05/23/19 SEAL

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Fax: 910.791.5266
www.cbhfengineers.com

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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW GAS	CHK WAC
PM/DM	DWB/KDB		
BRANCH MANAGER			
CHIEF ENG/ARCH			EJA
FIRE PROTECTION			HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 2 – AREA B1

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790583
SHEET	184 OF 196

E-102-B1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
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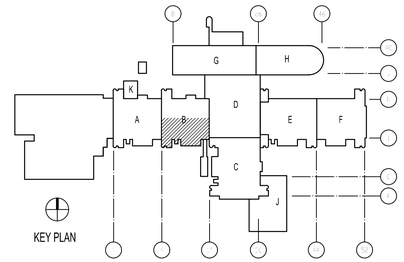
*NOTES ABOVE NOT INDICATED ON ALL PLANS



PARTIAL PLAN - LEVEL 2 - AREA B2

SCALE: 1/8"=1'–0"

PLAN NORTH



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'–0"

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

REGISTERED PROFESSIONAL ENGINEER
NORTH CAROLINA
SEAL
023311
ENGINEER
W. ALLEN GRIBB
05/23/19 SEAL

CBHF Engineers, PLLC
2246 Yaupon Drive
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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH	EJA				
FIRE PROTECTION	HPN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 2 – AREA B2

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790584
SHEET	185 OF 196

E-102-B2

DRAWFORM REVISION: 31 JANUARY 2017

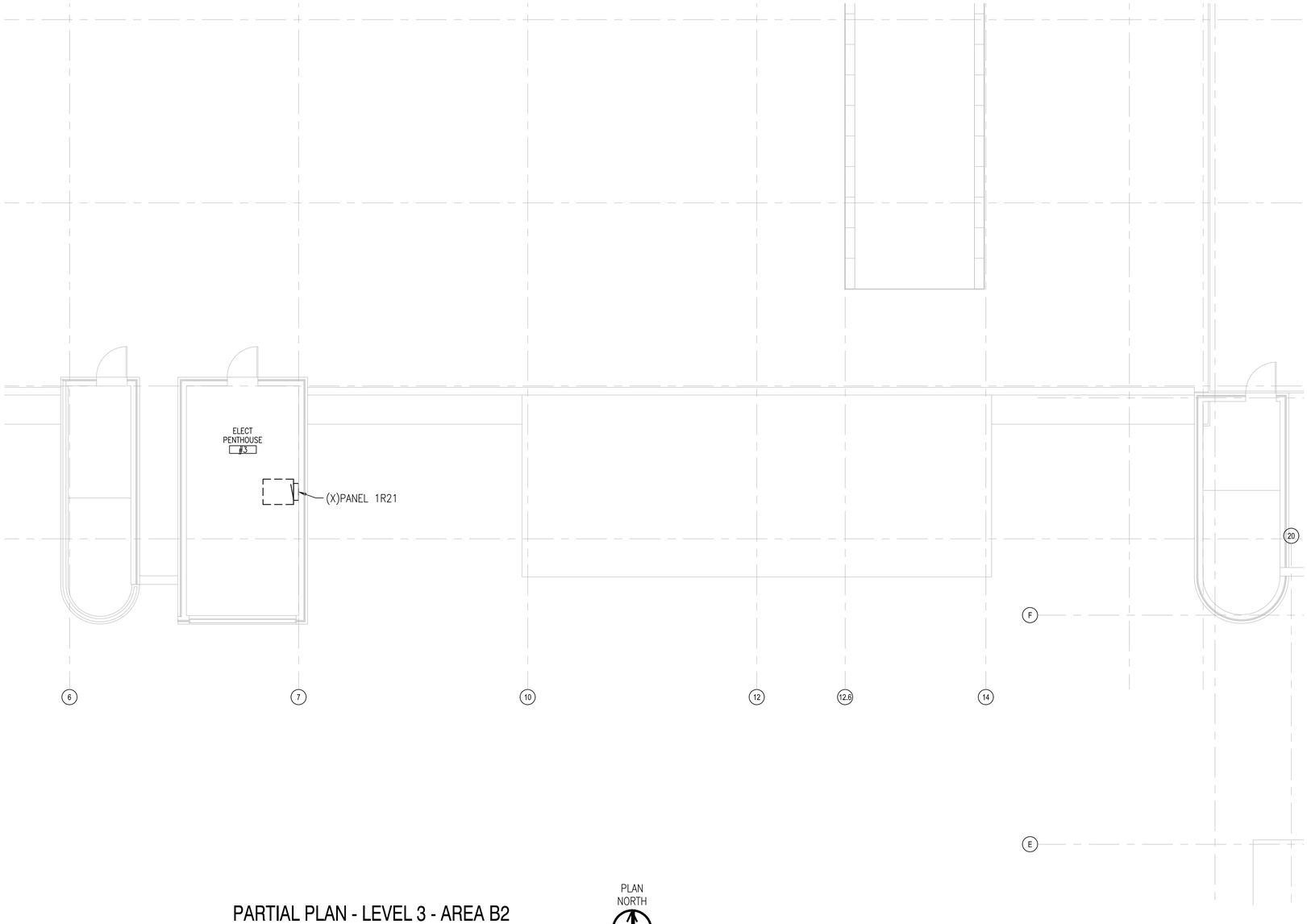
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KEYED NOTES

1. LIGHT FIXTURES AND OCCUPANCY SENSORS: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
2. EXIT SIGNS AND ROOM IN USE FIXTURES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
3. FIRE ALARM DEVICES: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
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6. VAV BOX: PROVIDE 20 AMP SINGLE POLE SWITCH. CONNECT VAV TO SWITCH WITH 2#12 & 1#12 GND – 3/4" CND. FEED FROM CIRCUIT INDICATED WITH 2#10 & 1#10 GND – 3/4" CND.
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9. CEILING PROJECTOR: REINSTALL DEVICE AT LOCATION INDICATED.
10. P152 & P153: CONTRACTOR SHALL COORDINATE LOCATION OF EQUIPMENT RACK TO ALLOW FOR CLEARANCES IN FRONT AND OVERHEAD.
11. FLUSH MOUNTED CEILING RECEPTACLE: INSTALL EXISTING DEVICE IN CEILING AT LOCATION INDICATED.
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*NOTES ABOVE NOT INDICATED ON ALL PLANS

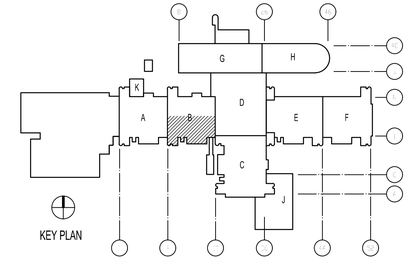


PARTIAL PLAN - LEVEL 3 - AREA B2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT W. ALLEN GRIBB SEAL 023311 ENGINEER

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB

BRANCH MANAGER JAB

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 3 – AREA B2

SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790585
SHEET	186 OF 196

E-103-B2

DRAWFORM REVISION: 31 JANUARY 2017

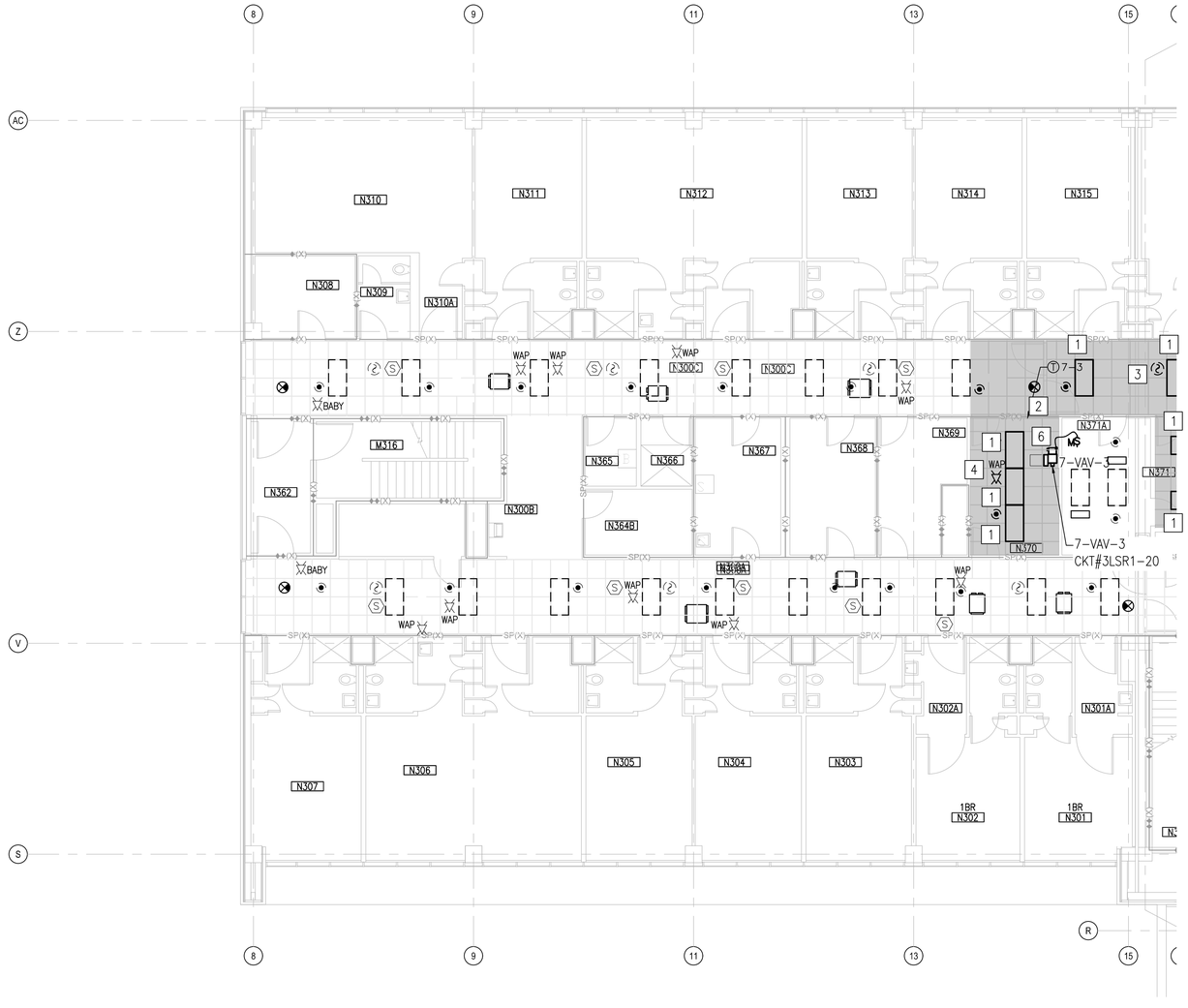
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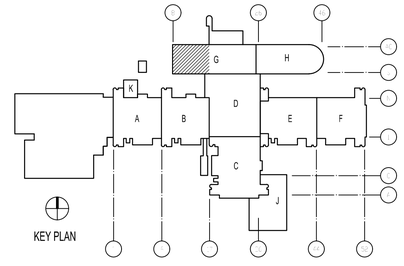


PARTIAL PLAN - LEVEL 3 - AREA G1

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

JOHN W. ALLEN GRIGG, JR. REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIGG

05/23/19 SEAL

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NC# P-0606
A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/31/2019

DES	GAS	DRW	GAS	CHK	WAC

PM/DM DWB/KDB
BRANCH MANAGER JAR
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS PT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 3 – AREA G1

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790586
SHEET 187 OF 196

E-103-G1

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

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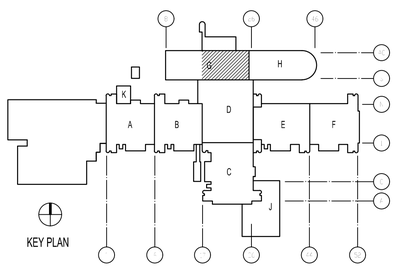


PARTIAL PLAN - LEVEL 3 - AREA G2

SCALE: 1/8"=1'-0"

PLAN NORTH

KEY PLAN



GRAPHIC SCALE

8' 6' 4' 2' 0 4' 8' 12' 16'

SCALE: 1/8" = 1'-0"

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB 05/23/19 SEAL

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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	GAS	DRW	GAS	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH					EJA
FIRE PROTECTION					HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
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REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 3 – AREA G2

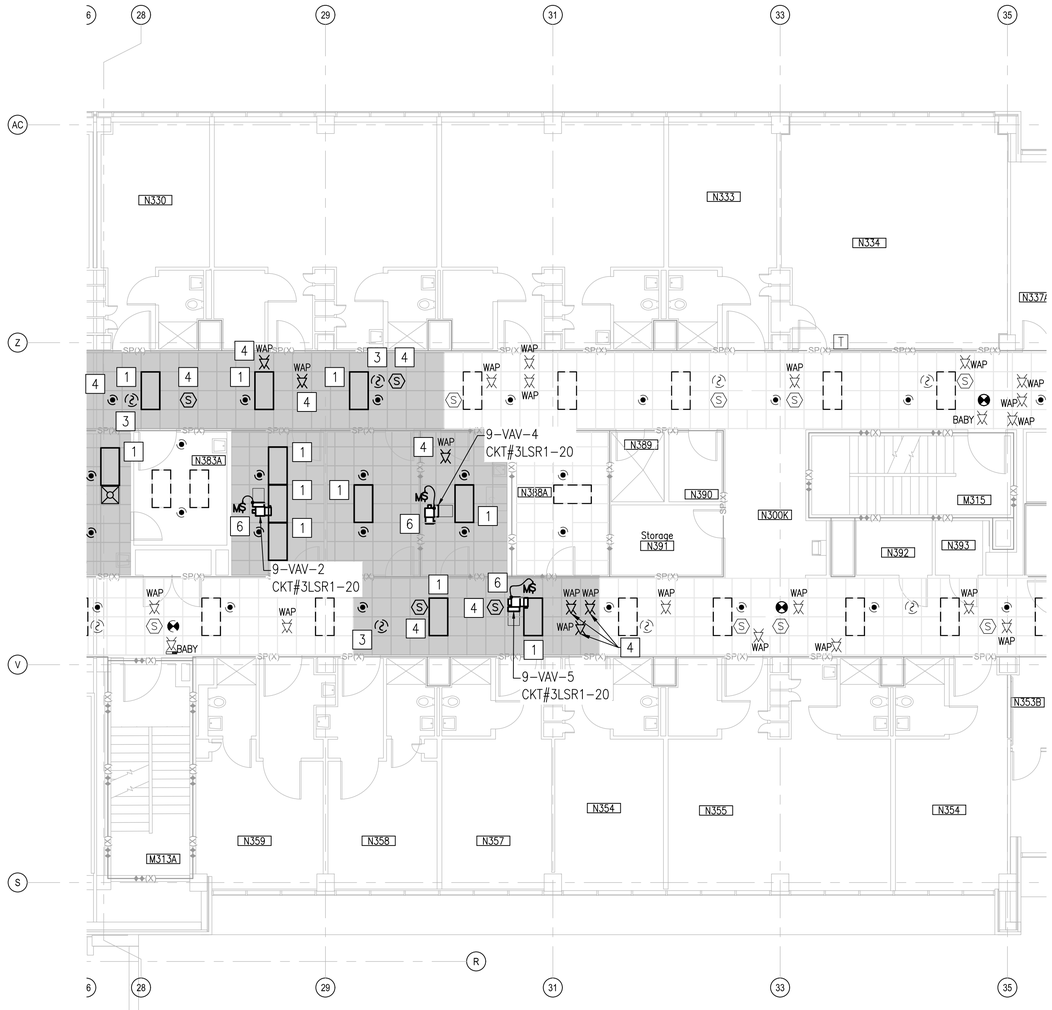
SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790587
SHEET	188 OF 196

E-103-G2

DRAWFORM REVISION: 31 JANUARY 2017

GENERAL NOTES

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PARTIAL PLAN - LEVEL 3 - AREA H1

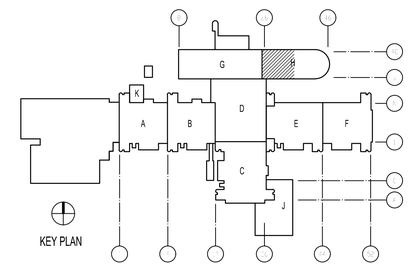
SCALE: 1/8"=1'-0"

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KEY PLAN



GRAPHIC SCALE

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SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/1/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

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PM/DM DWB/KDB

BRANCH MANAGER

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DEPARTMENT OF THE NAVY
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REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL ELECTRICAL PLAN
LEVEL 3 – AREA H1

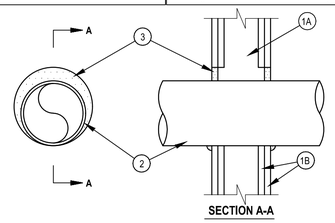
SCALE:	AS NOTED
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790588
SHEET	189 OF 196

E-103-H1

DRAWFORM REVISION: 31 JANUARY 2017

System No W L 1054

ANSI / UL1479 (ASTM E814)	CAN / ULC S115
F Ratings - 1 and 2 Hr (See Items 1 & 3)	F Ratings - 1 and 2 Hr (See Items 1 & 3)
T Ratings - 0 Hr	FT Ratings - 0 Hr
L Ratings at Ambient - Less Than 1 CFM / sq ft	FH Ratings - 1and 2 HR (See Items 1 and 3)
L Ratings at 400 F - Less Than 1 CFM / sq ft	FTH Ratings - 0 Hr
	FTH Ratings - 0 Hr L Rating at Ambient - Less Than 1 CFM / sq ft
	L Ratings at 400 F - Less Than 1 CFM / sq ft



SECTION A-A

1. WALL ASSEMBLY -- THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300A OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

   A. STUDS -- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC. WHEN STEEL STUDS ARE USED AND THE DIAMETER OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. WIDER AND 4 TO 6 IN. HIGHER THAN THE DIAMETER OF THE PENETRATING ITEM SUCH THAT, WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.

   B. GYPSUM BOARD* -- 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAMETER OF OPENING IS 32-1/4 IN. FOR STEEL STUD WALLS. MAX DIAMETER OF OPENING IS 14-1/2 IN. FOR WOOD STUD WALLS.

   THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.

2. THROUGH-PENETRANTS -- ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 2-1/4 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

   A. STEEL PIPE -- NOM 30 IN DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

   B. IRON PIPE -- NOM 30 IN. DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.

   C. CONDUIT -- NOM 4 IN DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 6 IN. DIAMETER STEEL CONDUIT.

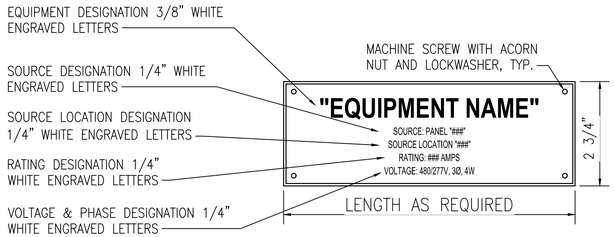
   D. COPPER TUBING -- NOM 6 IN. DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

   E. COPPER PIPE -- NOM 6 IN. DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN 1/2 IN. (13 MM) DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF WALL .
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE SEALANT

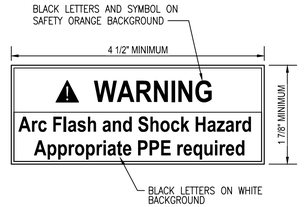
*INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

A1 1 AND 2 HOUR FIREWALL PENETRATION DETAIL
NOT TO SCALE



NOTE: SEE SPECS. SECTION 260553 FOR NAMEPLATE MATERIAL AND ENGRAVING COLORS.

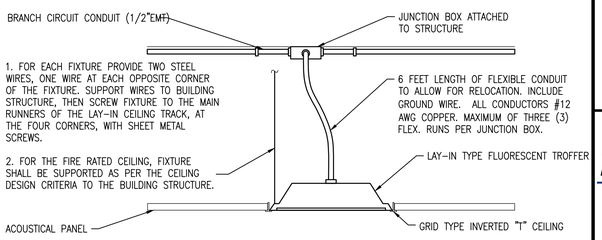
C3 TYPICAL EQUIPMENT NAMEPLATE DETAIL
NOT TO SCALE



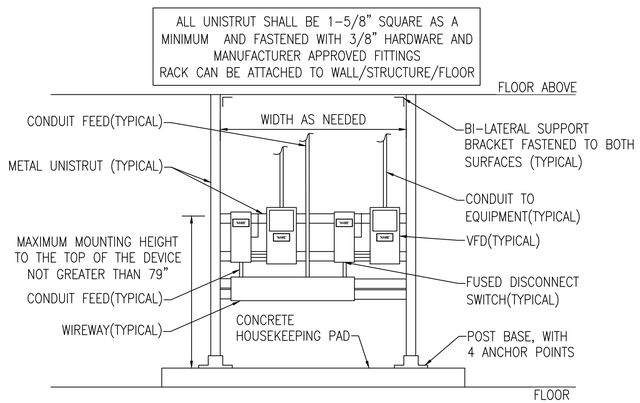
NOTES:
1. LABEL SHOWN CAN BE SOURCED FROM SAFETYSIGN.COM, OTHER SUPPLIERS ARE COMPLIANTSIGNS.COM & SETON.COM

2. THIS WARNING LABEL MINIMALLY COMPLIES WITH NEC, HOWEVER IF ELECTRICAL EQUIPMENT IS LIKELY TO REQUIRE EXAMINATION OR MAINTENANCE WHILE ENERGIZED A DETAILED SHORT CIRCUIT AND ARC FLASH HAZARD ANALYSIS IS RECOMMENDED.

B3 ELECTRICAL EQUIPMENT WARNING LABEL DETAIL
NOT TO SCALE



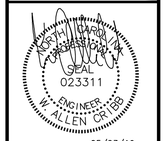
B4 LIGHTING FIXTURE MOUNTING DETAIL
NOT TO SCALE



A3 METAL EQUIPMENT MOUNTING RACK DETAIL
NOT TO SCALE

NO	SYM	DESCRIPTION	DATE	APPR
0		ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC



05/23/19 SEAL

CBHF
Engineers, PLLC
2246 Yaupon Drive
Wilmington, NC 28401
Phone: 910.791.4000
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APPROVED
FOR COMMANDER NAVFAC 7/4/2019
ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019
DES JLG | DRW JLG | CHK WAC
PM/DM DWB/KDB
BRANCH MANAGER jar
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL
ELECTRICAL DETAILS

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790589
SHEET 190 OF 196

E-501

DRAWFORM REVISION: 31 JANUARY 2017

(X)BEDP-7 VIA ATS 10

VOLTAGE	PHASE
480	3

EXISTING DEMAND LOAD	
LOAD FROM ATS LOAD STUDY (AMPACITY VALUE)	139,608 WATTS
ASSUMED POWER FACTOR OF .8	174,510 VA
EXISTING DEMAND AMPS	210 AMPS
LOADS REMOVED THIS PROJECT	
EQUIPMENT	
(X)DEA-1	34,919 VA
(X)P114 & (X)P115	6,319 VA
(X)BOILER B1	19,954 VA
(X)BOILER B2	19,954 VA
(X)P300A(CHILLER PROJECT)	*54,015 VA*
(X)P300B(CHILLER PROJECT)	*54,015 VA*
TOTAL EQUIPMENT REMOVED THIS PROJECT	189,176 VA
TOTAL EQUIPMENT REMOVED THIS PROJECT	228 AMPS
EQUIPMENT	
D1	18,291 VA
P114 & P115	9,145 VA
BOILER B1	15,963 VA
BOILER B2	15,963 VA
CHEM FEED PUMPS(3)	288 VA
BOILER B1,B2 CONTROLLER	1,680 VA
P116A(CHILLER PROJECT)	*33,240 VA*
P116B(CHILLER PROJECT)	*33,240 VA*
P119A(CHILLER PROJECT)	*33,240 VA*
P119B(CHILLER PROJECT)	*33,240 VA*
CT6(CHILLER PROJECT)	*33,240 VA*
P139(CHILLER PROJECT)	*54,038 VA*
TOTAL EQUIPMENT ADDED	281,568 VA
SUB-TOTAL EQUIPMENT DEMAND	339 AMPS
TOTAL EQUIPMENT ADDED	339 AMPS
NET LOAD ADDED	111 AMPS
NET LOAD ADDED	92,392 VA

(X)PANEL BEDP-7

TYPE: NEMA 1
BOLT-ON

480 | 277 V, | 3 PH, | 4 WIRE

MOUNT: WALL
FEED: BOTTOM

MANUFACTURER: EATON

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
BE-7A		*200/3*	1	0			2	*150/3*		*(X)P139 D.S.*
/		/	3		0		4	/		/
/		/	5			0	6	/		/
DEAREATOR D1		*125/3*	7	0			8	*125/3*		*(X)NHBD 1&2*
/		/	9		0		10	/		/
/		/	11			0	12	/		/
(X)P119A & P119B TROUGH		*100/3*	13	0			14	*100/3*		*(X)CT-2*
/		/	15		0		16	/		/
/		/	17			0	18	/		/
(X)PW BOOSTER PUMP 107, 108, 109		*80/3*	19	0			20	*100/3*		*(X)CT6 D.S.*
/		/	21		0		22	/		/
/		/	23			0	24	/		/
(X)MED AIR COMP		*100/3*	25	0			26	*100/3*		*(X)CT-1*
/		/	27		0		28	/		/
/		/	29			0	30	/		/
(X)P116A & P116B TROUGH		*100/3*	31	0			32	*60/3*		*(X)DRY ICE MACHINE*
/		/	33		0		34	/		/
/		/	35			0	36	/		/
NOTE:				0	0	0	TOTAL VOLT AMPS			600 A. BUS (COPPER)
				0	0	0	CONN. AMPS			600 A. MAIN CIRCUIT BREAKER

(X)PANEL BEDP-7 REVISED

TYPE: NEMA 1
BOLT-ON

480 | 277 V, | 3 PH, | 4 WIRE

MANUFACTURER: EATON

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)BE-7A		*200/3*	1				2	*150/3*		*(X)P139 D.S.*
/		/	3				4	/		/
/		/	5				6	/		/
DEAERATOR D1(NOTE 2, 3)	6,097	60/3	7	6,097			8	*125/3*		*(X)NHBD 1&2*
|	6,097	|	9		6,097		10	/		/
|	6,097	|	11			6,097	12	/		/
(X)P119A & P119B TROUGH		*100/3*	13				14	*100/3*		*(X)CT-2*
/		/	15				16	/		/
/		/	17				18	/		/
(X)PW BOOSTER PUMP 107, 108, 109		*80/3*	19				20	*100/3*		*(X)CT6 D.S.*
/		/	21				22	/		/
/		/	23				24	/		/
(X)MED AIR COMP		*100/3*	25				26	*100/3*		*(X)CT-1*
/		/	27				28	/		/
/		/	29				30	/		/
(X)P116A & P116B TROUGH		*100/3*	31				32	*60/3*		*(X)DRY ICE MACHINE*
/		/	33				34	/		/
/		/	35				36	/		/
NOTE:				6,097	6,097	6,097	TOTAL VOLT AMPS			600 A. BUS (COPPER)
				22	22	22	CONN. AMPS			600 A. MAIN LUGS

1. HVAC EQUIPMENT SHALL USE TYPE HACR BREAKERS.
2. PROVIDE BREAKER INDICATED, BREAKER AIC RATING SHALL MATCH PANEL AIC RATING.
3. ALL HARDWARE SHALL BE PROVIDED FOR BREAKERS TO BE INSTALLED.

NO	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN GRIBB

05/23/19 SEAL

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APPROVED
FOR COMMANDER NAVFAC 7/1/2019
ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	MDM	DRW	MDM	CHK	WAC
PM/DM	DWB/KDB				
BRANCH MANAGER					
CHIEF ENG/ARCH	EJA				
FIRE PROTECTION	HPN				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ELECTRICAL PANEL SCHEDULES AND LOAD SUMMARY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790590
SHEET 191 OF 196

E-601

DRAWFORM REVISION: 31 JANUARY 2017

(X)PANEL BE-7A

TYPE: NEMA 1 | 480 | 277 V, | 3 PH, | 4 WIRE | MANUFACTURER: GE
BOLT-ON | MOUNT:SURFACE | STYLE: A SERIES II

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)PANEL BER1&1ER6 VIA TRANSFORMER		50/3	1	0			2	20/3		(X)PAINT BUNKER HEATER
/		/	3		0		4	/		/
/		/	5			0	6	/		/
PUMPS P114 & P115		20/3	7	0			8	30/3		(X)DENTAL AIR COMPRESSOR
/		/	9		0		10	/		/
/		/	11			0	12	/		/
(X)SMART PUMP		30/3	13	0			14	30/3		(X)COMPRESSOR 1&2
/		/	15		0		16	/		/
/		/	17			0	18	/		/
(X)BOOSTER PUMP PANEL		30/3	19	0			20	40/3		(X)ORAL EVAC. PUMP
/		/	21		0		22	/		/
/		/	23			0	24	/		/
(X)COMP 3&4		30/3	25	0			26	20/3		(X)HOT WATER RECIRC. PUMP 114
/		/	27		0		28	/		/
/		/	29			0	30	/		/
(X)SB1-5		25/3	31	0			32	30/3		BOILER 1
/		/	33		0		34	/		/
/		/	35			0	36	/		/
BOILER 2		30/3	37	0			38	30/3		(X)HAZMAT REFRIGERATION & DOORS
/		/	39		0		40	/		/
/		/	41			0	42	/		/
(X)P122		30/2	43	0			44	20/3		(X)SPARE
/		/	45		0		46	/		/
(X)SPACE		–	47			0	48	/		/
(X)SPACE		–	49	0			50	–		(X)SPACE
(X)SPACE		–	51		0		52	–		(X)SPACE
(X)SPACE		–	53			0	54	–		(X)SPACE
NOTES:				0	0	0	TOTAL VOLT AMPS			200 A. BUS (COPPER)
				0	0	0	CONN. AMPS			200 A. MAIN LUGS

(X)PANEL BE-7A REVISED

TYPE: NEMA 1 | 480 | 277 V, | 3 PH, | 4 WIRE | MANUFACTURER: GE
BOLT-ON | MOUNT: SURFACE | STYLE: A SERIES II

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)PANEL BER1&1ER6 VIA TRANSFORMER		50/3	1	0			2	20/3		(X)PAINT BUNKER HEATER
/		|	3		0		4	|	/
/		|	5			0	6	|	/
PUMPS P114 & P115(NOTE 2,3)	3,048	30/3	7	3,048			8	30/3		(X)DENTAL AIR COMPRESSOR
|	3,048	|	9		3,048		10	|		/
|	3,048	|	11			3,048	12	|		/
(X)SMART PUMP		30/3	13	0			14	30/3		(X)COMPRESSOR 1&2
/		|	15		0		16	|		/
/		|	17			0	18	|		/
(X)BOOSTER PUMP PANEL		30/3	19	0			20	40/3		(X)ORAL EVAC. PUMP
/		|	21		0		22	|		/
/		|	23			0	24	|		/
(X)COMP 3&4		30/3	25	0			26	20/3		(X)HOT WATER RECIRC. PUMP 114
/		|	27		0		28	|		/
/		|	29			0	30	|		/
(X)SB1-5		25/3	31	5,321			32	30/3	5,321	BOILER B1(NOTE 4)
/		|	33		5,321		34	|	5,321	|
/		|	35			5,321	36	|	5,321	|
BOILER B2(NOTE 4)	5,321	30/3	37	5,321			38	30/3		(X)HAZMAT REFRIGERATION & DOORS
|	5,321	|	39		5,321		40	|		/
|	5,321	|	41			5,321	42	|		/
(X)P122		30/2	43	0			44	20/3		(X)SPARE
/		|	45		0		46	|		/
(X)SPACE		–	47			0	48	|		/
TEMPORARY BOILER(NOTE 2,3)	11,085	100/3	49	11,085			50	–		(X)SPACE
|	11,085	|	51		11,085		52	–		(X)SPACE
|	11,085	|	53			11,085	54	–		(X)SPACE
NOTES:				24,775	24,775	24,775	TOTAL VOLT AMPS			200 A. BUS (COPPER)
1. HVAC EQUIPMENT SHALL USE TYPE HACR BREAKERS.				89	89	89	CONN. AMPS			200 A. MAIN LUGS
2. PROVIDE BREAKER INDICATED, BREAKER AIC RATING SHALL MATCH PANEL AIC RATING.										
3. ALL HARDWARE SHALL BE PROVIDED FOR BREAKERS TO BE INSTALLED.										
4. UTILIZE EXISTING BREAKER.										

(X)1EMCC-10

TYPE: BOLT-ON | 480 | 277 V, | 3 PH, | 4 WIRE | MANUFACTURER: GE
MOUNT:SURFACE | STYLE: A SERIES II

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)HU-27		20/3	1	0			2	20/3		(X)RF-27
/		/	3		0		4	/		/
/		/	5			0	6	/		/
(X)V-1		20/3	7	0			8	20/3		(X)P-154 & P-155
/		/	9		0		10	/		/
/		/	11			0	12	/		/
(X)HU-26		20/3	13	0			14	20/3		(X)AHU-44
/		/	15		0		16	/		/
/		/	17			0	18	/		/
(X)P145		20/3	19	0			20	20/3		(X)EF-107
/		/	21		0		22	/		/
/		/	23			0	24	/		/
(X)C FEMALE LOCKER ROOM		30/3	25	0			26	20/3		(X)SPARE
/		/	27		0		28	/		/
/		/	29			0	30	/		/
(X)SPACE		–	31	0			32	–		(X)SPACE
(X)SPACE		–	33		0		34	–		(X)SPACE
(X)SPACE		–	35			0	36	–		(X)SPACE
(X)SPACE		–	37	0			38	–		(X)SPACE
(X)SPACE		–	39		0		40	–		(X)SPACE
(X)SPACE		–	41			0	42	–		(X)SPACE
NOTES:				0	0	0	TOTAL VOLT AMPS			125 A. BUS (COPPER)
				0	0	0	CONN. AMPS			125 A. MAIN LUGS

(X)1EMCC-10 REVISED

TYPE: BOLT-ON | 480 | 277 V, | 3 PH, | 4 WIRE | MANUFACTURER: GE
MOUNT:SURFACE | STYLE: A SERIES II

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)HU-27		20/3	1	0			2	20/3		(X)RF-27
/		/	3		0		4	/		/
/		/	5			0	6	/		/
(X)V-1		20/3	7	2,106			8	20/3	2,106	(X)P-154 & P-155(NOTE 2)
/		/	9		2,106		10	|	2,106	|
/		/	11			2,106	12	|	2,106	|
(X)HU-26		20/3	13	0			14	20/3		(X)AHU-44
/		/	15		0		16	/		/
/		/	17			0	18	/		/
(X)P145		20/3	19	0			20	20/3		(X)EF-107
/		/	21		0		22	/		/
/		/	23			0	24	/		/
(X)C FEMALE LOCKER ROOM		30/3	25	0			26	20/3		(X)SPARE
/		/	27		0		28	/		/
/		/	29			0	30	/		/
(X)SPACE		–	31	0			32	–		(X)SPACE
(X)SPACE		–	33		0		34	–		(X)SPACE
(X)SPACE		–	35			0	36	–		(X)SPACE
(X)SPACE		–	37	0			38	–		(X)SPACE
(X)SPACE		–	39		0		40	–		(X)SPACE
(X)SPACE		–	41			0	42	–		(X)SPACE
NOTES:				2,106	2,106	2,106	TOTAL VOLT AMPS			125 A. BUS (COPPER)
1. HVAC EQUIPMENT SHALL USE TYPE HACR BREAKERS.				8	8	8	CONN. AMPS			125 A. MAIN LUGS
2. UTILIZE EXISTING BREAKER.										

NO	ISSUED FOR CONSTRUCTION	DATE	APPR
0		05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 023311 ENGINEER W. ALLEN GRIBB
05/23/19 SEAL

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2246 Yaupon Drive
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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES MDM | DRW MDM | CHK WAC
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ELECTRICAL PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790591
SHEET 192 OF 196

E-602

DRAWFORM REVISION: 31 JANUARY 2017

(X)1EMCC-13

TYPE: NEMA 1 | 480 277 V, 3 PH, 4 WIRE | MANUFACTURER: GE
BOLT-ON | MOUNT:SURFACE | STYLE: A SERIES II

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)P-152 & P-153		20/3	1	0			2	30/3		(X)AHU-29
/		/	3		0		4	/		/
/		/	5			0	6	/		/
(X)V-1AHU-13		50/3	7	0			8	20/3		(X)RF-29
/		/	9		0		10	/		/
/		/	11			0	12	/		/
(X)RF-10		20/3	13	0			14	30/3		(X)AHU-10
/		/	15		0		16	/		/
/		/	17			0	18	/		/
(X)CP-4		20/3	19	0			20	30/3		(X)AHU-14
/		/	21		0		22	/		/
/		/	23			0	24	/		/
(X)C FEMALE LOCKER ROOM		20/3	25	0			26	20/3		(X)SF-89
/		/	27		0		28	/		/
/		/	29			0	30	/		/
(X)CP-4		20/3	31	0			32	20/3		(X)SPARE
/		/	33		0		34	–		/
/		/	35			0	36	–		/
(X)SPACE		–	37	0			38	–		(X)SPACE
(X)SPACE		–	39		0		40	–		(X)SPACE
(X)SPACE		–	41			0	42	–		(X)SPACE
NOTES:				0	0	0	TOTAL VOLT AMPS			225 A. BUS (COPPER)
				0	0	0	CONN. AMPS			225 A. MAIN LUGS

(X)PANEL 1R26 SECTION 2

TYPE: NEMA 1 | 208 120 V, 3 PH, 4 WIRE | MANUFACTURER: EATON
BOLT-ON | MOUNT:SURFACE | STYLE: PRL1A

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)SPACE		–	43	0			44	20/1		(X)SPARE
(X)FURNITURE N119		20/1	45		0		46	20/1		(X)POWERED BLINDS WINDOW N112
(X)FURNITURE N119		20/1	47			0	48	20/1		(X)POWERED BLINDS WINDOW N114
(X)FURNITURE N119		20/1	49	0			50	20/1		(X)POWERED BLINDS WINDOW N16, N137, N138
(X)SPACE		–	51		0		52	20/1		(X)POWERED BLINDS WINDOW N146
(X)SPACE		–	53			0	54	20/1		(X)POWERED BLINDS WINDOW N161
(X)SPACE		–	55	0			56	20/1		(X)SPARE
(X)SPACE		–	57		0		58	20/1		(X)SPARE
(X)SPACE		–	59			0	60	20/1		(X)SPARE
(X)SPACE		–	61	0			62	–		(X)SPACE
(X)SPACE		–	63		0		64	–		(X)SPACE
(X)SPACE		–	65			0	66	–		(X)SPACE
(X)SPACE		–	67	0			68	–		(X)SPACE
(X)SPACE		–	69		0		70	–		(X)SPACE
(X)SPACE		–	71			0	72	–		(X)SPACE
(X)SPACE		–	73	0			74	–		(X)SPACE
(X)SPACE		–	75		0		76	–		(X)SPACE
(X)SPACE		–	77			0	78	–		(X)SPACE
(X)SPACE		–	79	0			80	–		(X)SPACE
(X)SPACE		–	81		0		82	–		(X)SPACE
(X)SPACE		–	83			0	84	–		(X)SPACE
NOTES:				0	0	0	TOTAL VOLT AMPS			225 A. BUS (COPPER)
				0	0	0	CONN. AMPS			225 A. MAIN LUGS

(X)1EMCC-13 REVISED

TYPE: NEMA 1 | 480 277 V, 3 PH, 4 WIRE | MANUFACTURER: GE
BOLT-ON | MOUNT:SURFACE | STYLE: A SERIES II

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)P-152 & P-153(NOTE 2,3)	3,048	30/3	1	3,048			2	30/3		(X)AHU-29
|	3,048	|	3		3,048		4	/		/
|	3,048	|	5			3,048	6	/		/
(X)V-1AHU-13		50/3	7	0			8	20/3		(X)RF-29
/		/	9		0		10	/		/
/		/	11			0	12	/		/
(X)RF-10		20/3	13	0			14	30/3		(X)AHU-10
/		/	15		0		16	/		/
/		/	17			0	18	/		/
(X)CP-4		20/3	19	0			20	30/3		(X)AHU-14
/		/	21		0		22	/		/
/		/	23			0	24	/		/
(X)C FEMALE LOCKER ROOM		20/3	25	0			26	20/3		(X)SF-89
/		/	27		0		28	/		/
/		/	29			0	30	/		/
(X)CP-4		20/3	31	0			32	20/3		(X)SPARE
/		/	33		0		34	–		/
/		/	35			0	36	–		/
(X)SPACE		–	37	0			38	–		(X)SPACE
(X)SPACE		–	39		0		40	–		(X)SPACE
(X)SPACE		–	41			0	42	–		(X)SPACE
NOTES:				3,048	3,048	3,048	TOTAL VOLT AMPS			225 A. BUS (COPPER)
1. HVAC EQUIPMENT SHALL USE TYPE HACR BREAKERS.				11	11	11	CONN. AMPS			225 A. MAIN LUGS
2. PROVIDE BREAKER INDICATED, BREAKER AIC RATING SHALL MATCH PANEL AIC RATING.										
3. ALL HARDWARE SHALL BE PROVIDED FOR BREAKERS TO BE INSTALLED.										

(X)PANEL 1R26 SECTION 2 REVISED

TYPE: NEMA 1 | 208 120 V, 3 PH, 4 WIRE | MANUFACTURER: EATON
BOLT-ON | MOUNT:SURFACE | STYLE: PRL1A

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	VA	LOAD SERVED
(X)SPACE		–	43	0			44	20/1		(X)SPARE
(X)FURNITURE N119		20/1	45		0		46	20/1		(X)POWERED BLINDS WINDOW N112
(X)FURNITURE N119		20/1	47			0	48	20/1		(X)POWERED BLINDS WINDOW N114
(X)FURNITURE N119		20/1	49	0			50	20/1		(X)POWERED BLINDS WINDOW N16, N137, N138
(X)SPACE		–	51		0		52	20/1		(X)POWERED BLINDS WINDOW N146
(X)SPACE		–	53			0	54	20/1		(X)POWERED BLINDS WINDOW N161
(X)SPACE		–	55	0			56	20/1		(X)SPARE
(X)SPACE		–	57		0		58	20/1		(X)SPARE
(X)SPACE		–	59			0	60	20/1		(X)SPARE
LEVEL 1 AREAS A1 & B1 VAVS(NOTE 2, 3)	1,200	20/1	61	2,475			62	20/1	1,275	LEVEL 1 AREA C VAVS(NOTE 2, 3)
LEVEL 1 AREAS A2 & B2 VAVS(NOTE 2, 3)	1,350	20/1	63		2,325		64	20/1	975	LEVEL 1 AREA E1 VAVS(NOTE 2, 3)
LEVEL 1 AREA D2 VAVS(NOTE 2, 3)	1,275	20/1	65			2,175	66	20/1	900	LEVEL 1 AREAS E2 & F2 VAVS(NOTE 2, 3)
LEVEL 1 AREA G VAVS(NOTE 2, 3)	975	20/1	67	1,875			68	20/1	900	LEVEL 1 AREA H VAVS(NOTE 2, 3)
(X)SPACE		–	69		0		70	–		(X)SPACE
(X)SPACE		–	71			0	72	–		(X)SPACE
(X)SPACE		–	73	0			74	–		(X)SPACE
(X)SPACE		–	75		0		76	–		(X)SPACE
(X)SPACE		–	77			0	78	–		(X)SPACE
(X)SPACE		–	79	0			80	–		(X)SPACE
(X)SPACE		–	81		0		82	–		(X)SPACE
(X)SPACE		–	83			0	84	–		(X)SPACE
NOTES:				4,350	2,325	2,175	TOTAL VOLT AMPS			225 A. BUS (COPPER)
1. HVAC EQUIPMENT SHALL USE TYPE HACR BREAKERS.				36	19	18	CONN. AMPS			225 A. MAIN LUGS
2. PROVIDE BREAKER INDICATED, BREAKER AIC RATING SHALL MATCH PANEL AIC RATING.										
3. ALL HARDWARE SHALL BE PROVIDED FOR BREAKERS TO BE INSTALLED.										

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

KURT D. GARON, REGISTERED ARCHITECT, COMMONWEALTH OF VIRGINIA, SEAL 023311, ENGINEER, W. ALLEN GRIBB

05/23/19 SEAL

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APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES MDM | DRW MDM | CHK WAC
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ELECTRICAL PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12790592
SHEET 193 OF 196

E-603

DRAWFORM REVISION: 31 JANUARY 2017

(X)PANEL 1R21

TYPE: NEMA 1
BOLT-ON

208 | 120 V, | 3 PH, | 4 WIRE

MOUNT:SURFACE

MANUFACTURER: SQUARE D

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)RECEPT W125A		20/1	1	0			2	20/1		(X)SPACE
(X)RECEPT W125A		20/1	3		0		4	20/1		(X)RECEPT M101, M101A
(X)RECEPT W126A		20/1	5			0	6	20/1		(X)RECEPT EXAM 29 W131B
(X)RECEPT W126		20/1	7	0			8	20/1		(X)RECEPT PROVIDER 13 W136
(X)RECEPT W126B		20/1	9		0		10	20/1		(X)RECEPT M100, M100A
(X)RECEPT W127		20/1	11			0	12	20/1		(X)RECEPT C207
(X)RECEPT EXAM 24 W138		20/1	13	0			14	20/1		(X)RECEPT EXAM 26 136A
(X)RECEPT PROV 14 W129A		20/1	15		0		16	20/1		(X)RECEPT EXAM 25 137A
(X)RECEPT VIS/HEAR W141		20/1	17			0	18	20/1		(X)RECEPT PROVIDER 12 W137
(X)RECEPT EXAM 27 W129		20/1	19	0			20	20/1		(X)RECEPT EXAM 25 W137A
(X)RECEPT ALCOVE W130A		20/1	21		0		22	20/1		(X)RECEPT EXAM 23 W139
(X)RECEPT EXAM 28 W131		20/1	23			0	24	20/1		(X)RECEPT PROVIDER 11 W138
(X)RECEPT PROV 15 W131A		20/1	25	0			26	20/1		(X)RECEPT EXAM 23 W139
(X)RECEPT EXAM 29 W131A		20/1	27		0		28	20/1		(X)SOUND SYSTEM AMPLIFIER
(X)RECEPT EXAM 30 W132		20/1	29			0	30	20/1		(X)SPACE
(X)UNIT HEATERS UH-27, UH-28		20/1	31	0			32	20/1		(X)SPACE
(X)CAB HEATER CH-31		20/1	33		0		34	20/1		(X)SPACE
(X)RECEPT C207		20/1	35			0	36	20/1		(X)RECEPT EXAM 26 W136A
(X)EXISTING RECEPT		20/1	37	0			38	20/1		(X)SPACE
(X)SPACE		20/1	39		0		40	20/1		(X)SPACE
(X)SPACE		20/1	41			0	42	20/1		(X)SPACE
NOTES:				0	0	0	TOTAL VOLT AMPS			225 A. BUS (COPPER)
				0	0	0	CONN. AMPS			225 A. MAIN CIRCUIT BREAKER

(X)PANEL 3LSR1

TYPE: NEMA 1
BOLT-ON

208 | 120 V, | 3 PH, | 4 WIRE

MOUNT:SURFACE

MANUFACTURER: SQUARE D
STYLE: E2

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)RECEPT N372 TELEPHONE CLOSET		20/1	1	0			2	20/1		(X)FIRE PROTECTION PRE-ACTION PANEL
(X)NURSE CALL SYSTEM		20/1	3		0		4	20/1		(X)AREA G VAVS
(X)RECEPT N384 TELEPHONE CLOSET		20/1	5			0	6	20/1		(X)AREA H VAVS
(X)NURSE CALL SYSTEM		20/1	7	0			8	20/1		(X)N392 VOICE/DATA ROOM
(X)NURSE CALL SYSTEM		20/1	9		0		10	20/1		(X)N363 VOICE/DATA ROOM
(X)NURSE CALL SYSTEM		20/1	11			0	12	20/1		(X)SPARE
(X)SPARE		20/1	13	0			14	20/3		(X)SPARE
(X)SPARE		20/1	15		0		16	/		/
(X)SPARE		20/1	17			0	18	/		/
(X)SPACE		–	19	0			20	–		(X)SPACE
(X)SPACE		–	21		0		22	–		(X)SPACE
(X)SPACE		–	23			0	24	–		(X)SPACE
NOTES:				0	0	0	TOTAL VOLT AMPS			100 A. BUS (COPPER)
				0	0	0	CONN. AMPS			100 A. MAIN CIRCUIT BREAKER

(X)PANEL 1R21 REVISED

TYPE: NEMA 1
BOLT-ON

208 | 120 V, | 3 PH, | 4 WIRE

MOUNT:SURFACE

MANUFACTURER: SQUARE D

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)RECEPT W125A		20/1	1	0			2	20/1		(X)SPACE
(X)RECEPT W125A		20/1	3		0		4	20/1		(X)RECEPT M101, M101A
(X)RECEPT W126A		20/1	5			0	6	20/1		(X)RECEPT EXAM 29 W131B
(X)RECEPT W126		20/1	7	0			8	20/1		(X)RECEPT PROVIDER 13 W136
(X)RECEPT W126B		20/1	9		0		10	20/1		(X)RECEPT M100, M100A
(X)RECEPT W127		20/1	11			0	12	20/1		(X)RECEPT C207
(X)RECEPT EXAM 24 W138		20/1	13	0			14	20/1		(X)RECEPT EXAM 26 136A
(X)RECEPT PROV 14 W129A		20/1	15		0		16	20/1		(X)RECEPT EXAM 25 137A
(X)RECEPT VIS/HEAR W141		20/1	17			0	18	20/1		(X)RECEPT PROVIDER 12 W137
(X)RECEPT EXAM 27 W129		20/1	19	0			20	20/1		(X)RECEPT EXAM 25 W137A
(X)RECEPT ALCOVE W130A		20/1	21		0		22	20/1		(X)RECEPT EXAM 23 W139
(X)RECEPT EXAM 28 W131		20/1	23			0	24	20/1		(X)RECEPT PROVIDER 11 W138
(X)RECEPT PROV 15 W131A		20/1	25	0			26	20/1		(X)RECEPT EXAM 23 W139
(X)RECEPT EXAM 29 W131A		20/1	27		0		28	20/1		(X)SOUND SYSTEM AMPLIFIER
(X)RECEPT EXAM 30 W132		20/1	29			1,425	30	20/1	1,425	LEVEL 2 AREA A1 VAVS(NOTE 2,3)
(X)UNIT HEATERS UH-27, UH-28		20/1	31	1,350			32	20/1	1,350	LEVEL 2 AREA A2 VAVS(NOTE 2,3)
(X)CAB HEATER CH-31		20/1	33		1,350		34	20/1	1,350	LEVEL 2 AREA B VAVS(NOTE 2,3)
(X)RECEPT C207		20/1	35			0	36	20/1		(X)RECEPT EXAM 26 W136A
(X)EXISTING RECEPT		20/1	37	0			38	20/1		(X)SPACE
(X)SPACE		20/1	39		0		40	20/1		(X)SPACE
(X)SPACE		20/1	41			0	42	20/1		(X)SPACE
NOTES:				1,350	1,350	1,425	TOTAL VOLT AMPS			225 A. BUS (COPPER)
1. HVAC EQUIPMENT SHALL USE TYPE HACR BREAKERS.				11	11	12	CONN. AMPS			225 A. MAIN CIRCUIT BREAKER
2. PROVIDE BREAKER INDICATED, BREAKER AIC RATING SHALL MATCH PANEL AIC RATING.										
3. ALL HARDWARE SHALL BE PROVIDED FOR BREAKERS TO BE INSTALLED.										

(X)PANEL 3LSR1 REVISED

TYPE: NEMA 1
BOLT-ON

208 | 120 V, | 3 PH, | 4 WIRE

MOUNT:SURFACE

MANUFACTURER: SQUARE D
STYLE: E2

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)RECEPT N372 TELEPHONE CLOSET		20/1	1	0			2	20/1		(X)FIRE PROTECTION PRE-ACTION PANEL
(X)NURSE CALL SYSTEM		20/1	3		0		4	20/1		(X)AREA G VAVS
(X)RECEPT N384 TELEPHONE CLOSET		20/1	5			0	6	20/1		(X)AREA H VAVS
(X)NURSE CALL SYSTEM		20/1	7	0			8	20/1		(X)N392 VOICE/DATA ROOM
(X)NURSE CALL SYSTEM		20/1	9		0		10	20/1		(X)N363 VOICE/DATA ROOM
(X)NURSE CALL SYSTEM		20/1	11			0	12	20/1		(X)SPARE
(X)SPARE		20/1	13	0			14	20/3		(X)SPARE
(X)SPARE		20/1	15		0		16	/		/
(X)SPARE		20/1	17			0	18	/		/
(X)SPACE		–	19	750			20	20/1	750	LEVEL 3 AREAS G & H VAVS(NOTE 2,3)
(X)SPACE		–	21		0		22	–		(X)SPACE
(X)SPACE		–	23			0	24	–		(X)SPACE
NOTES:				750	0	0	TOTAL VOLT AMPS			100 A. BUS (COPPER)
1. HVAC EQUIPMENT SHALL USE TYPE HACR BREAKERS.				6	0	0	CONN. AMPS			100 A. MAIN CIRCUIT BREAKER
2. PROVIDE BREAKER INDICATED, BREAKER AIC RATING SHALL MATCH PANEL AIC RATING.										
3. ALL HARDWARE SHALL BE PROVIDED FOR BREAKERS TO BE INSTALLED.										

APPR	DATE	DESCRIPTION	SYM
	05.23.19	ISSUED FOR CONSTRUCTION	0

NAVFAC

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 023311 ENGINEER W. ALLEN CRIBB

05/23/19 SEAL

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APPROVED

FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES MDM | DRW MDM | CHK WAC

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ELECTRICAL PANEL SCHEDULES

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12790593

SHEET 194 OF 196

E-604

DRAWFORM REVISION: 31 JANUARY 2017

(X)PANEL BER1

TYPE: NEMA 1 BOLT-ON	208	120 V,	3 PH,	4 WIRE	MANUFACTURER: SQUARE D STYLE: SERIES E2
		MOUNT:SURFACE			

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)WATER HEATER CIRC PUMP WH-2		20/1	1	0			2	20/1		(X)DUCT ACTUATOR
(X)WATER HEATER CIRC PUMP WH-4		20/1	3		0		4	20/1		(X)DUCT ACTUATOR
(X)WATER SOFTENER		20/1	5			0	6	20/1		(X)CFU-102 ACTUATOR
(X)SPARE		20/1	7	0			8	–		(X)SPACE
(X)EF-138		20/1	9		0		10	20/1		(X)TEST LIGHT
(X)EF-122		20/1	11			0	12	20/1		(X)DIESEL FIRE PUMP BLOCK HEATER
(X)SPACE		–	13	0			14	–		(X)SPACE
(X)EF-82		20/1	15		0		16	–		(X)SPACE
(X)EF-137		20/1	17			0	18	–		(X)SPACE
(X)EF-108		20/1	19	0			20	–		(X)SPACE
(X)EF-76		20/1	21		0		22	–		(X)SPACE
(X)COMPUTER		20/1	23			0	24	20/1		(X)SPARE
(X)RECEPT E003 EF-144		20/1	25	0			26	20/1		(X)AIR COMPRESSOR AIR DRYER
(X)EF-143		20/1	27		0		28	20/1		(X)RECEPT E005
(X)RECEPT E005 WEST WALL		20/1	29			0	30	–		(X)SPACE
(X)RECEPT E005 WEST WALL		20/1	31	0			32	–		(X)SPACE
(X)SPACE		–	33		0		34	–		(X)SPACE
(X)SPACE		–	35			0	36	–		(X)SPACE
NOTES:				0	0	0	TOTAL VOLT AMPS		100 A. BUS (COPPER)	
				0	0	0	CONN. AMPS		60 A. MAIN CIRCUIT BREAKER	

(X)PANEL BER1 REVISED

TYPE: NEMA 1 BOLT-ON	208	120 V,	3 PH,	4 WIRE	MANUFACTURER: SQUARE D STYLE: SERIES E2
		MOUNT:SURFACE			

LOAD SERVED	LOAD VA	CKT BKR	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR	LOAD VA	LOAD SERVED
(X)WATER HEATER CIRC PUMP WH-2		20/1	1	0			2	20/1		(X)DUCT ACTUATOR
(X)WATER HEATER CIRC PUMP WH-4		20/1	3		0		4	20/1		(X)DUCT ACTUATOR
(X)WATER SOFTENER		20/1	5			0	6	20/1		(X)CFU-102 ACTUATOR
(X)SPARE		20/1	7	0			8	–		(X)SPACE
(X)EF-138		20/1	9		0		10	20/1		(X)TEST LIGHT
(X)EF-122		20/1	11			0	12	20/1		(X)DIESEL FIRE PUMP BLOCK HEATER
(X)SPACE		–	13	288			14	20/1	288	D1, D2 CHEM FEED PUMPS(NOTE 2,3)
(X)EF-82		20/1	15		840		16	20/1	840	BOILER B1 CONTROL POWER(NOTE 2,3)
(X)EF-137		20/1	17			840	18	20/1	840	BOILER B2 CONTROL POWER(NOTE 2,3)
(X)EF-108		20/1	19	0			20	–		(X)SPACE
(X)EF-76		20/1	21		0		22	–		(X)SPACE
(X)COMPUTER		20/1	23			0	24	20/1		(X)SPARE
(X)RECEPT E003 EF-144		20/1	25	0			26	20/1		(X)AIR COMPRESSOR AIR DRYER
(X)EF-143		20/1	27		0		28	20/1		(X)RECEPT E005
(X)RECEPT E005 WEST WALL		20/1	29			180	30	20/1	180	TEMPORARY BOILER WP GFCI(NOTE 2,3)
(X)RECEPT E005 WEST WALL		20/1	31	0			32	–		(X)SPACE
(X)SPACE		–	33		0		34	–		(X)SPACE
(X)SPACE		–	35			0	36	–		(X)SPACE
NOTES:				288	840	1,020	TOTAL VOLT AMPS		100 A. BUS (COPPER)	
1. HVAC EQUIPMENT SHALL USE TYPE HACR BREAKERS.				2	7	9	CONN. AMPS		60 A. MAIN CIRCUIT BREAKER	
2. PROVIDE BREAKER INDICATED, BREAKER AIC RATING SHALL MATCH PANEL AIC RATING.										
3. ALL HARDWARE SHALL BE PROVIDED FOR BREAKERS TO BE INSTALLED.										

APPR	DATE	DESCRIPTION	SYM
	05.23.19	ISSUED FOR CONSTRUCTION	0

NAVFAC

KURT W. GARDNER
REGISTERED PROFESSIONAL ENGINEER
SEAL
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ENGINEER
W. ALLEN GRIBB
05/23/19 SEAL

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A/E INFO

APPROVED
FOR COMMANDER NAVFAC 7/4/2019

ACTIVITY
LT David Hartley via Email
SATISFACTORY 10 DATE : 05/31/2019

DES. MDM | DRW. MDM | CHK. WAC
PM/CM DWB/KDB
BRANCH MANAGER JAB
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ELECTRICAL PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12790594
SHEET 195 OF 196

E-605

DRAWFORM REVISION: 31 JANUARY 2017

(X)BEMCC8 VIA ATS 8	
VOLTAGE	PHASE
480	3 -
EXISTING DEMAND LOAD	
LOAD FROM ATS LOAD STUDY(AMPACITY VALUE)	87,753 WATTS
ASSUMED POWER FACTOR OF .8	109,691 VA
EXISTING DEMAND AMPS	132 AMPS
LOADS REMOVED THIS PROJECT	
EQUIPMENT	
(X)P117 OR (X)P118(CHILLER PROJECT)	*17,451 VA*
(X)P140 OR (X)P141(CHILLER PROJECT)	*54,038 VA*
(X)P119(CHILLER PROJECT)	*17,451 VA*
TOTAL EQUIPMENT REMOVED THIS PROJECT	88,940 VA
TOTAL EQUIPMENT REMOVED THIS PROJECT	107 AMPS
TOTAL LOAD REMOVED THIS PROJECT	107 AMPS
TOTAL LOAD REMOVED THIS PROJECT	88,940 VA
EQUIPMENT	
HWPs AND CONDENSATE PUMP SYSTEM	26,605 VA
P117A(CHILLER PROJECT)	*33,240 VA*
P117B(CHILLER PROJECT)	*33,240 VA*
P140(CHILLER PROJECT)	*54,038 VA*
P141(CHILLER PROJECT)	*54,038 VA*
TOTAL EQUIPMENT ADDED	211,967 VA
SUB-TOTAL EQUIPMENT DEMAND	255 AMPS
TOTAL EQUIPMENT ADDED	255 AMPS
NET LOAD ADDED	148 AMPS
NET LOAD ADDED	123,027 VA

MANUFACTURER – GE

A	B	C	D	E
INCOMING POWER 600A, 480V, 3ø, 3W	1. 20A, 3ø EF-49	1. 20A, 3ø AHU 46	1. 20A, 3ø SUMP PUMP 1	1. 150A, 3ø P140
1. 125A, 3ø SPARE (P119 IS TO BE DEMOLISHED IN CHILLER PROJECT MAKING SPACE SPARE)	2. 20A, 3ø SF-120	2. 20A, 3ø EF-46	2. 20A, 3ø P-201	
2. 125 3ø P117A & P117B	3. 20A, 3ø SF-121	3. 20A, 3ø HV-5	3. 20A, 3ø SUMP PUMP 2	2. 20A, 3ø RF-26
	4. 20A, 3ø P156 REF. CIRC PUMP	4. 20A, 3ø RE-CIRC 110	4. 20A, 3ø EF-43	3. 20A, 3ø EF-119
3. 150A, 3ø P141	5. 20A, 3ø P157 REF. CIRC PUMP	5. 20A, 3ø RE-CIRC 111	5. 20A, 3ø P-1	4. 20A, 3ø JOCKEY P-105
	6. 20A, 3ø MEDIVAC	6. 20A, 3ø HV=6	6. 20A, 3ø P-129	5. 20A, 3ø SPARE

(1)

DEMOLITION KEYED NOTES

(1) CONTRACTOR SHALL REMOVE 20A BREAKER AND PROVIDE 50A BREAKER. BREAKER SHALL MATCH MCC AND MCC AIC RATINGS. CONTRACTOR SHALL PROVIDE ALL HARDWARE FOR BREAKER TO BE INSTALLED

BEMCC8 ELEVATION - DEMOLITION (C3)
NOT TO SCALE

MANUFACTURER – GE

A	B	C	D	E
(X)INCOMING POWER 600A, 480V, 3ø, 3W	1. (X)20A, 3ø (X)EF-49	1. (X)20A, 3ø (X)AHU 46	1. (X)20A, 3ø (X)SUMP PUMP 1	1. (X)150A, 3ø P140
1. 125A, 3ø SPARE (P119 IS TO BE DEMOLISHED IN CHILLER PROJECT MAKING SPACE SPARE)	2. (X)20A, 3ø (X)SF-120	2. (X)20A, 3ø (X)EF-46	2. (X)20A, 3ø (X)P-201	
2. (X)125 3ø (X)P117A & P117B	3. (X)20A, 3ø (X)SF-121	3. (X)20A, 3ø (X)HV-5	3. (X)20A, 3ø (X)SUMP PUMP 2	2. (X)20A, 3ø (X)RF-26
	4. (X)20A, 3ø (X)P156 REF. CIRC PUMP	4. (X)20A, 3ø (X)RE-CIRC 110	4. (X)20A, 3ø (X)EF-43	3. (X)20A, 3ø (X)EF-119
3. (X)150A, 3ø (X)P141	5. (X)20A, 3ø (X)P157 REF. CIRC PUMP	5. (X)20A, 3ø (X)RE-CIRC 111	5. (X)20A, 3ø (X)P-1	4. (X)20A, 3ø (X)JOCKEY P-105
	6. (X)20A, 3ø (X)MEDIVAC	6. (X)20A, 3ø (X)HV=6	6. (X)20A, 3ø (X)P-129	5. 50A, 3ø HWPs AND CONDENSATE PUMP SYSTEM

(1)

KEYED NOTES

(1) CONTRACTOR SHALL REMOVE 20A BREAKER AND PROVIDE 50A BREAKER. BREAKER SHALL MATCH MCC AND MCC AIC RATINGS. CONTRACTOR SHALL PROVIDE ALL HARDWARE FOR BREAKER TO BE INSTALLED. CONNECT NEW LOAD AS INDICATED AND PROVIDE NEW NAME PLATE.

BEMCC8 ELEVATION - REVISED (A3)
NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05.23.19	

NAVFAC

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 023311 ENGINEER W. ALLEN CRIBB

05/23/19 SEAL

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APPROVED
FOR COMMANDER NAVFAC 7/1/2019
ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019

DES	MDM	DRW	MDM	CHK	WAC

PM/DM DWB/KDB
BRANCH MANAGER JAR
CHIEF ENG/ARCH EJA
FIRE PROTECTION HPN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORE IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, NORFOLK, VIRGINIA
U.S. MARINE CORPS
CAMP LEJEUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ELECTRICAL
MCC ELEVATIONS AND LOAD SUMMARY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12790595
SHEET 196 OF 196

E-606

DRAWFORM REVISION: 31 JANUARY 2017