MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

ISSUED FOR CONSTRUCTION
30 JUNE 2016

MARINE BARRACKS WASHINGTON
WASHINGTON, DC

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INDEX OF DRAWINGS

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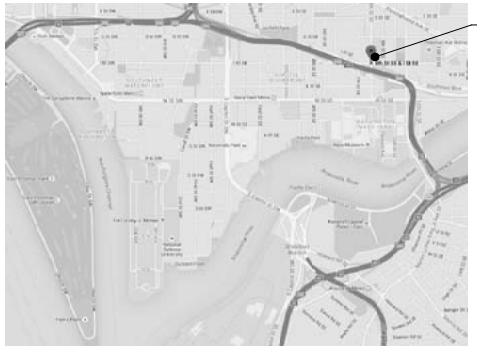
45	13079260	T-400	BLDG 9 ENLARGED NEW TER & TEF PLANS PHASE I
46	13079261	T-410	BLDG 9 TER CABINETS ELEVATION PHASE I
47	13079262	T-420	BLDG 9 TER CABINETS ELEVATION PHASE II

PLAN NORTH

VICINITY MAP
SCALE: NOT TO SCALE



PLAN NORTH

LOCATION MAP
SCALE: NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND
DARYL WAYNE NOSER
No. 10861
ARCHITECT
SEAL

Wiley/Wilson | BURNS McDONNELL
JOINT VENTURE
A/E ENG

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES: DWM | DRW: BS | CHK: MAW

PROJECT MANAGER: JHEBLER

PT TECH. BRANCH HEAD: JBLUMENKRANTZ

CHIEF ENG/ARCH: JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/PT: NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
1314 N. STREET SE, WASHINGTON, DC 20390

MARINE BARRACKS WASHINGTON, WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

COVER SHEET AND INDEX OF DRAWINGS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079216
SHEET 1 OF 47
G-001

DRAWFORM REVISION: 12 MAY 2014

FILE NAME: Z:\Clients\ANF\USNavy\Was\89297_MBWCommHub\Design_Common\Revit\Model\89297_G_Cover.rvt
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1. APPLICABLE CODES AND STANDARDS

ABBREVIATIONS	TITLE	EDITION
IBC	INTERNATIONAL BUILDING CODE	2012
IMC	INTERNATIONAL MECHANICAL CODE	2012
NFPA 10	STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2016
NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS	2016
NFPA 14	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2013
NFPA 70	NATIONAL ELECTRICAL CODE	2014
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2016
NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS	2015
NFPA 101	LIFE SAFETY CODE	2015
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015
UFC 3-600-01	FIRE PROTECTION ENGINEERING FOR FACILITIES	MAR 2013
UFC 3-600-10N	FIRE PROTECTION ENGINEERING, FINAL DRAFT	AUG 2007

2. TYPE OF CONSTRUCTION (IBC 602)

BUILDING ELEMENT	TYPE OF CONSTRUCTION	FIRE RESISTANCE RATING
PRIMARY STRUCTURAL FRAME	IIB	0 HR ***
BEARING EXTERIOR WALL	IIB	0 HR **
BEARING INTERIOR WALL	IIB	0 HR *
NON-BEARING EXTERIOR WALL	IIB	0 HR **
NON-BEARING INTERIOR WALL	IIB	0 HR *
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	IIB	0 HR *
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	IIB	0 HR

* EXCEPT AS REQUIRED FOR OCCUPANCY SEPARATION, INCIDENTAL USE, AND OTHER PASSIVE FIRE PROTECTION.
** EXCEPT AS REQUIRED FOR BUILDING SEPARATION.
*** EXCEPT AS REQUIRED TO SUPPORT HORIZONTAL ASSEMBLY (IBC 712.4)
NOTE: BUILDING IS EXISTING AND CONSTRUCTION TYPE IS GIVEN FOR INFORMATION ONLY. NO CHANGES TO BUILDING CONSTRUCTION TYPE ARE BEING MADE.

3. CLASSIFICATION OF OCCUPANCY

AREAS	OCCUPANCY	IBC
TELECOMMUNICATION ROOM	BUSINESS, GROUP B	304.1
ELECTRICAL/MECHANICAL ROOMS	MODERATE-HAZARD STORAGE, GROUP S-1	311.2
FIRE SERVICE ENTRANCE ROOM	MODERATE-HAZARD STORAGE, GROUP S-1	311.2

11. OPENING PROTECTION FOR FIRE AND SMOKE RESISTIVE CONSTRUCTION

COMPONENT	FIRE DOOR / SHUTTER ASSEMBLIES	DUCT PENETRATIONS	OTHER PENETRATIONS	IBC
1 HR FIRE BARRIER	3/4 HR	1-1/2 HR FIRE DAMPER ONLY ON TRANSFER DUCTS IN H OCCUPANCIES	1 HR	715.4, 716.5.2
2 HR FIRE BARRIER	1-1/2 HR	1-1/2 HR DAMPER	2 HR	715.4, 716.5.2
1 HR FIRE BARRIER FOR MEANS OF EGRESS (INCLUDING STAIRWELLS)	1 HR	NOT PERMITTED	1 HR	715.4, 716.5.2
1 HR FIRE BARRIER FOR SHAFT ENCLOSURE NOT USED FOR EGRESS	1 HR	1-1/2 HR FIRE / SMOKE DAMPER	1 HR	715.4, 716.5.3
1/2 HR FIRE PARTITION FOR CORRIDOR WALLS	1/3 HR	1-1/2 HR FIRE DAMPER*	1/2 HR	715.4, 716.5.4
0 HR SMOKE PARTITION	0 HR (SELF CLOSING)	SMOKE DAMPER ON TRANSFER DUCT ONLY	0 HR	711, 716.5.7

14. MINIMUM EXITS OR EXIT ACCESSES FROM A SPACE OR AREA (NFPA 101)

OCCUPANCY	CONDITION PERMITTING ONE EXIT	CONDITION REQUIRING TWO OR MORE EXITS	CODE SECTION
BUSINESS	LESS THAN 100' COMMON PATH	100' OR GREATER COMMON PATH	38.2.4.2
MECHANICAL ROOM	LESS THAN 100' COMMON PATH	100' OR GREATER COMMON PATH	7.12.1

15. COMMON PATH, DEAD-END, AND TRAVEL DISTANCE LIMITS (NFPA 101,TABLE A.7.6)

OCCUPANCY	COMMON PATH LIMIT(FT)	DEAD END LIMIT (FT)	TRAVEL DISTANCE LIMIT (FT)
ASSEMBLY	75	20	250
BUSINESS	100	50	300

* COMMON PATH WITHIN A DWELLING UNIT OR SUITE IS NOT INCLUDED (NFPA 101 28.2.5.4).
** MEASURED FROM THE CORRIDOR DOOR OF ANY GUEST ROOM OR SUITE. TRAVEL DISTANCE WITHIN A GUEST ROOM OR SUITE IS LIMITED TO 125 FT; THIS IS NOT INCLUDED IN THE TRAVEL DISTANCE LIMIT (NFPA 101 28.2.6.2, 28.2.6.3.3.1).

16. MINIMUM EGRESS WIDTHS

COMPONENT	REQUIREMENT	WIDTH (IN)	NFPA 101
EXISTING STAIR IN EGRESS ACCESS	MINIMUM	36	SECTION 7.2.2.2.1.1
DOORS IN EGRESS ACCESS	PER COMPONENT	32	SECTION 7.2.1.2.3.2
CORRIDOR SERVING 50 OR MORE OCCUPANTS	MINIMUM	44	SECTION 12.2.3.8
CORRIDOR SERVING LESS THAN 50 OCCUPANTS	MINIMUM	36	
NEW STAIR IN EGRESS ACCESS	MINIMUM	44	SECTION 7.2.2.2.1.1
OTHER EGRESS COMPONENTS	PER PERSON	0.2	TABLE 7.3.3.1
STAIRWAYS	PER PERSON	0.3	TABLE 7.3.3.1

18. MINIMUM INTERIOR FINISH RATINGS (NFPA 101, TABLE A.10.2.2)

OCCUPANCY	EXIT ENCLOSURE AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
ASSEMBLY	CLASS B	CLASS C	CLASS C
BUSINESS	CLASS C	CLASS C	CLASS C

19. FIRE SUPPRESSION REQUIREMENTS (UFC 3-600-01 4-2.2, 4-9)

SPRINKLERS	STANDPIPE	FIRE EXTINGUISHERS
SPRINKLERED THROUGHOUT	MANUAL CLASS I STANDPIPE SYSTEM IN EACH STAIRWELL	EXISTING TO REMAIN

20. FIRE ALARM REQUIREMENTS (UFC 3-600-01 5-1)

MANUAL INITIATION	AUTOMATIC INITIATION	OCCUPANT NOTIFICATION
MANUAL PULL STATIONS PROVIDED AT MAINS EXITS FROM THE BUILDING	SPRINKLER FLOW SWITCHES, SPOT SMOKE DETECTORS AT ALARM PANELS, DUCT SMOKE DETECTORS, SPOT SMOKE DETECTORS IN GUEST ROOMS AND SUITES	VOICE MESSAGING, WHITE ALERT STROBES

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — DARRYL WAYNE BURNS — No. 10682 — ARCHITECT

Wiley | Wilson — BURNS & McDONNELL — JOINT VENTURE

A/E INFO

APPROVED: Jay Blumenkrantz
FOR COMMANDER NAVFAC B.L.A.

ACTIVITY: NAVFAC WASHINGTON
SATISFACTORY TO DATE 30 JUNE 2016
DES DWM | DRW DWM | CHK TH
PROJECT MANAGER JHEBLER
IPT TECH. BRANCH HEAD JBLUMENKRANTZ
CHIEF ENGIARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/IPT NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
1314 SE STREET, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
LIFE SAFETY CODE ANALYSIS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079217
SHEET 2 OF 47
GI001

DRAWFORM REVISION: 12 MAY 2014

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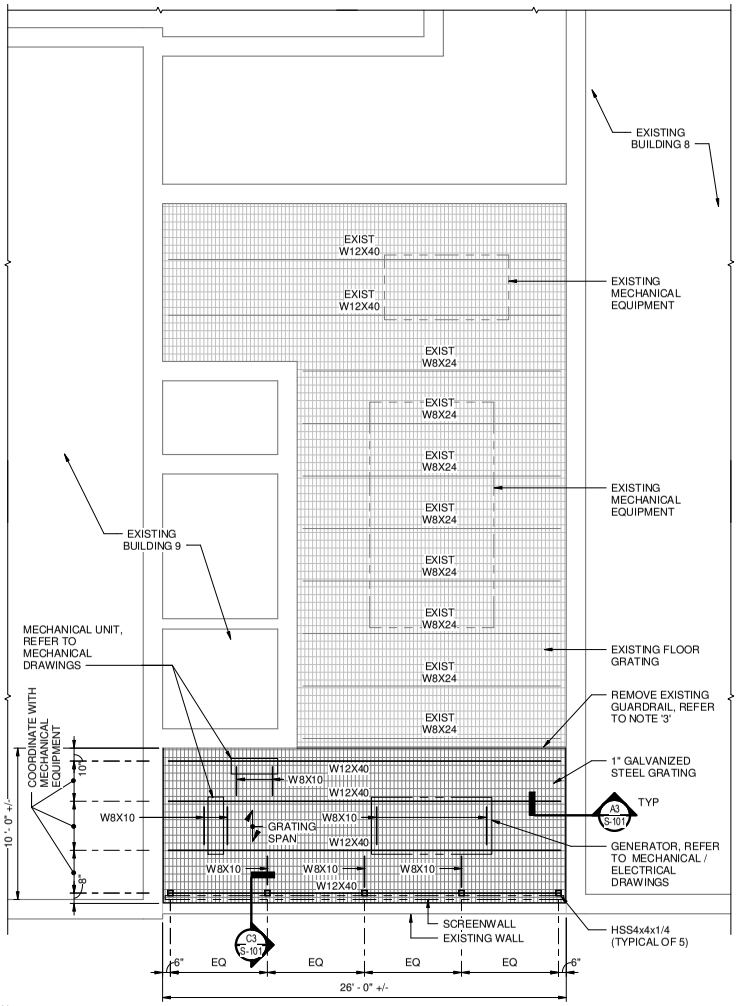
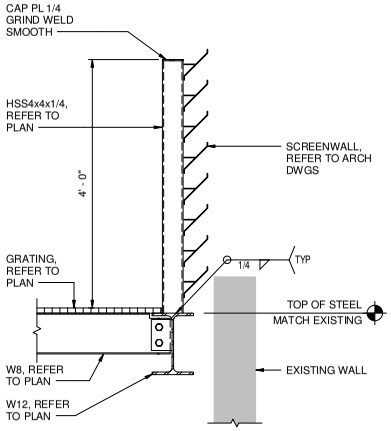


PLAN NORTH

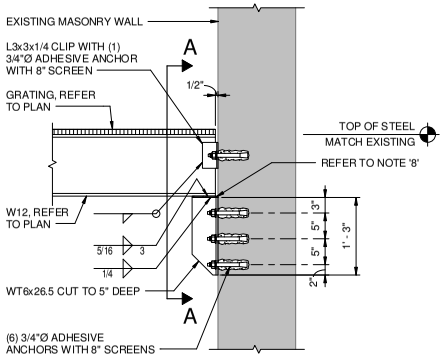
EQUIPMENT MEZZANINE EXTENSION PLAN

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



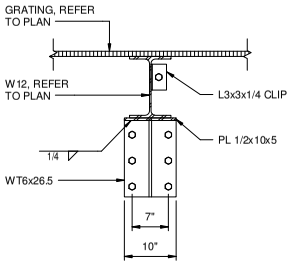
C3 SECTION

SCALE: 1" = 1'-0"



A3 SECTION

SCALE: 1" = 1'-0"

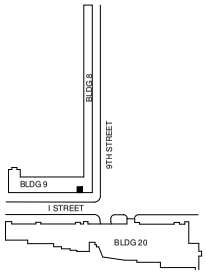


SECTION A-A

MEZZANINE FRAMING GENERAL NOTES

1. TOP OF STEEL TO MATCH EXISTING PLATFORM FRAMING.
2. COORDINATE LOCATION OF W8x10 MEMBERS WITH EQUIPMENT LOCATION. ANCHOR EQUIPMENT DIRECTLY TO STEEL FRAMING AND NOT GRATING. DESIGN W8 CONNECTIONS AS SIMPLE SHEAR PER AISC 360. GRATING TO RUN CONTINUOUS UNDER EQUIPMENT. PROVIDE C4x5.4 BY 6" LONG, CENTERED ON W12, AT EACH EQUIPMENT ANCHOR POINT LOCATION. WELD FLANGES OF C4 TO W12. CUT GRATING AS REQUIRED FOR C4.
3. REMOVE EXISTING GUARDRAIL AND KICKPLATE FULL LENGTH OF PLATFORM FOR INSTALLATION OF NEW GRATING.
4. PROVIDE GALVANIZED STEEL GRATING WITH 1"x1/8" BEARING BARS AT 1 3/16" ON-CENTER. PROVIDE BOLTED CLIPS TO STEEL FRAMING.
5. ALL DIMENSIONS TO BE VERIFIED IN FIELD.
6. HOT-DIP GALVANIZE EXPOSED EXTERIOR STEEL FRAMING AND CONNECTIONS AFTER FABRICATION.
7. EQUIPMENT MEZZANINE EXTENSION DESIGNED FOR 150 PSF LIVE LOAD.
   GENERATOR DESIGN LOAD: 3500 POUNDS
   MECHANICAL UNIT DESIGN LOAD: 350 POUNDS
8. PROVIDE BOLTED CONNECTION TO WT6 AT ONE END OF BEAM. PROVIDE (2) 3/4"Ø BOLTS (ONE EACH SIDE OF WEB) IN SHORT SLOTTED HOLES. HAND TIGHTEN AND ADD DOUBLE NUT.
9. PROVIDE MATERIALS CONFORMING WITH THE FOLLOWING:
   - WIDE FLANGE AND WT SHAPES: ASTM A992
   - ANGLES, PLATES AND THREADED RODS: ASTM A36, Fy = 36 KSI
   - RECTANGULAR HOLLOW STRUCTURAL STEEL SECTIONS: ASTM A500, GRADE C
   - WELDING: AWS D1.1 USING E70 ELECTRODES WITH LOW HYDROGEN WHERE REQUIRED
   - POST-INSTALLED ANCHORS (HOT-DIP GALVANIZED): HILTI HIT-HY70 ADHESIVE ANCHOR OR APPROVED EQUAL

KEY PLAN:



GRAPHIC SCALE:

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

1" =1'-0" 0' 6" 1' 2'

| | | |

UNCLASSIFIED

CALL OUT IDENTIFICATION

SECTION, DETAIL, AND ELEVATION SYMBOL IDENTIFIERS:

LETTER AND NUMBER DESIGNATOR FOR GRID COORDINATE

ONE OR TWO CHARACTER DISCIPLINE DESIGNATOR (MAY NOT BE PRESENT IF CALLOUT AND TITLE ARE ON DRAWINGS WITHIN THE SAME DISCIPLINE)

DRAWING SEQUENCE NUMBER INDICATES WHERE TITLE IS LOCATED (MAY NOT BE PRESENT IF CALLOUT AND TITLE ARE ON THE SAME DRAWING)

A#
G-000
SIM

SECTION CALLOUT EXAMPLE:

A#
G-000

DETAIL CALLOUT EXAMPLE:

A#
G-000
SIM

ELEVATION CALLOUT EXAMPLE:

A#
A# A-101 A#
A#
INTERIOR

A#
A-201
EXTERIOR

PLAN TITLE EXAMPLE:

PLAN NORTH
VIEW NAME
SCALE: 1/8" = 1'-0"

SECTION, DETAIL, AND ELEVATION TITLE EXAMPLE:

XX VIEW NAME
SCALE: 1/8" = 1'-0"

1 A101 VIEW NAME
SCALE: 1/8" = 1'-0"

NORTH ARROW EXAMPLE:

PLAN NORTH
BUILDING

N
CIVIL/SITE

GRAPHIC SCALE EXAMPLE:

GRAPHIC SCALE:
1/8" =1'-0"
0' 4' 8' 16'

PLAN LEGEND

PLAN LEGEND:

- EXISTING DOOR
- NEW DOOR
- EXISTING WALL
- NEW WALL (RE: PARTITION TYPE)
- ROOM NAME — ROOM NAME
- 101 — ROOM NUMBER
- 1i — PARTITION TYPE
- 888W — DOOR NUMBER
- W0 — WINDOW WALL TYPE
- W0 — CURTAIN WALL TYPE
- 00 — GLAZING TYPE
- L1 — LOUVER TAG
- 1 — GRID BUBBLE AND LINE
- T1 — TOILET ACCESSORY TAG
- WORK W101 — FURNITURE SYSTEM TAG
- 1'-0" A.F.F. — CEILING HEIGHT TAG

DEMOLITION/EXISTING PLAN LEGEND

- EXISTING DOOR
- DOOR TO BE REMOVED
- EXISTING WALL
- WALL TO BE REMOVED

MATERIAL SYMBOLS

- UNDISTURBED EARTH
- COMPACTED FILL
- GRAVEL
- GRASS
- FACE BRICK
- MASONRY
- CONCRETE MASONRY UNIT
- CONCRETE
- TERRAZZO
- RIGID INSULATION
- PLYWOOD
- GROUT OR GYPSUM BOARD
- SAND, PLASTER, OR PORTLAND CEMENT
- STEEL OR FERROUS METALS
- ALUMINUM OR NON-FERROUS METALS
- FINISHED WOOD
- PARTICLE BOARD
- GLUED-LAMINATED WOOD
- PLASTIC LAMINATE
- BATT INSULATION
- METAL STUD WALL
- BACKER ROD AND SEALANT
- DIMENSION LUMBER

ABBREVIATIONS

SEE ADDITIONAL FINISH MATERIAL ABBREVIATIONS IN THE MATERIAL LEGEND, DRAWING A701

-A-
A/E ARCHITECT/ENGINEER
ACOUST ACOUSTICAL
ADJ ADJACENT, ADJUSTABLE
AFF ABOVE FINISH FLOOR
AHJ AUTHORITY HAVING JURISDICTION
ALT ALTERNATE
ALUM ALUMINUM
APPROX APPROXIMATE
ARCH ARCHITECTURE, ARCHITECT

-B-
BD BOARD
BITUM BITUMINOUS
BLDG BUILDING
BLKG BLOCKING
BO BOTTOM OF, AS IN "BO STEEL"
BTWN BETWEEN

-C-
CAB CABINET
CCTV CLOSED CIRCUIT TELEVISION
CID COMPREHENSIVE INTERIOR DESIGN
CJ CONTROL JOINT, CONSTRUCTION JOINT
CL CENTER LINE
CLG CEILING
CLR CLEAR
CMU CONCRETE MASONRY UNIT
CO CLEANOUT
COL COLUMN
COMM COMMUNICATION
CONC CONCRETE
CONSTR CONSTRUCTION
CONT CONTINUOUS
CONTR CONTRACT, CONTRACTOR
COORD COORDINATE
CORR CORRUGATED OR CORRIDOR
CU CUBIC
°C CELSIUS

-D-
DBL DOUBLE
DEMO DEMOLITION
DESCR DESCRIPTION
DET DETAIL
DIA DIAMETER
DIAG DIAGONAL
DIM DIMENSION
DN DOWN
DR DOOR
DS DOWNSPOUT
DWG DRAWING

-E-
E EAST
EA EACH
EEW EMERGENCY EYEWASH
EEWS EMERGENCY EYEWASH & SHOWER
EF EXHAUST FAN
EJ EXPANSION JOINT
EL ELEVATION, AS IN HEIGHT
ELAST ELASTOMERIC
ELEC ELECTRIC / ELECTRICAL
ELEV ELEVATOR, OR ELEVATION AS IN NORTH ELEV
EQ EQUAL
EQUIP EQUIPMENT
ETC AND SO FORTH (ETCETERA)
EW EACH WAY
EWC ELECTRIC WATER COOLER
EXH EXHAUST
EXIST EXISTING
EXP EXPANSION
EXT EXTERIOR

-F-
FD FLOOR DRAIN
FDN FOUNDATION
FE FIRE EXTINGUISHER WITH WALL BRACKET
FEC FIRE EXTINGUISHER CABINET
FF FINISH FLOOR
FF&E FURNITURE, FIXTURES & EQUIPMENT
FHC FIRE HOSE CABINET (WITH EXTINGUISHER & BRACKET)
FHR FIRE HOSE REEL (WITH EXTINGUISHER & BRACKET)
FIN FINISHED, FINISH
FLR FLOOR
FT FEET / FOOT
°F FAHRENHEIT

-G-
GA GAUGE
GALV GALVANIZED
GL GIRT LINE
GRTG GRATING
GYP GYPSUM
GYP BD GYPSUM BOARD

-H-
H HIGH
HD HAND
HDWR HARDWARE
HM HOLLOW METAL
HORIZ HORIZONTAL
HT HEIGHT
HVAC HEATING, VENTILATION & AIR CONDITIONING

-I-
ID INSIDE DIAMETER
IN INCH
INSUL INSULATION
INT INTERIOR

-J-
JAN JANITOR'S CLOSET

-L-
L LEFT, LONG, LENGTH
LAB LABORATORY
LAT LATITUDE
LAV LAVATORY
LB or # POUND
LH LEFT HAND
LONG LONGITUDE
LVR LOUVER

-M-
M METER
MACH MACHINE
MAINT MAINTENANCE
MAS MASONRY
MATL MATERIAL
MAX MAXIMUM
MECH MECHANICAL
MFR MANUFACTURER
MIN MINIMUM
MISC MISCELLANEOUS
MM MILLIMETER
MO MASONRY OPENING
MTD MOUNTED
MTL METAL

-N-
N NORTH
N/A NOT APPLICABLE
NIC NOT IN CONTRACT
NO NUMBER
NOM NOMINAL
NTP NOTICE TO PROCEED
NTS NOT TO SCALE

-O-
OC ON CENTER
OD OUTSIDE DIAMETER
OFF OFFICE
OPNG OPENING
OPP OPPOSITE

-P-
PA PUBLIC ADDRESS
PERIM PERIMETER
PKG PACKAGE
PL PLATE
PLMB PLUMBING
PLYWD PLYWOOD
PROJ PROJECT
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PVC POLYVINYL CHLORIDE

-R-
R RADIUS
R/A RETURN AIR
RCP REFLECTIVE CEILING PLAN
RD ROOF DRAIN
RECP RECEPTACLE
REFER REFERENCE
REINF REINFORCED
REQ'D REQUIRED
REV REVISION
RH RIGHT HAND
RO ROUGH OPENING

-S-
S SOUTH
S/A SUPPLY AIR
SCHED SCHEDULE
SECT SECTION
SF SQUARE FOOT
SID STRUCTURAL INTERIOR DESIGN
SIM SIMILAR
SPEC SPECIFICATION
SQ SQUARE, AS IN "SQ FT"
STC SOUND TRANSMISSION COEFFICIENT
STD STANDARD
STOR STORAGE
STRUCT STRUCTURAL
SUPP SUPPORT
SUSP SUSPENDED
SYS SYSTEM

-T-
TD TRENCH DRAIN
TECH TECHNICAL
THRU THROUGH
TLT TOILET
TO TOP OF, AS IN "TO STEEL"
TYP TYPICAL

-U-
UL UNDERWRITERS LABORATORY
UNO UNLESS NOTED OTHERWISE
UTIL UTILITY

-V-
VENT VENTILATE, VENTILATOR
VERT VERTICAL
VOL VOLUME

-W-
W WEST, WIDTH
W/ WITH
W/O WITHOUT
WC WATER CLOSET
WD WOOD
WH WATER HEATER
WT WEIGHT

DWN	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — RANDY WAYNE BOSS — No. 10589 — ARCHITECT — SEAL

Wiley | Wilson | BURNS McDONNELL — JOINT VENTURE

A/E ENG

APPROVED: Jay Blumenkrantz
FOR COMMANDER NAVFAC B.L.T.

ACTIVITY: NAVFAC WASHINGTON

SATISFACTORY TO DATE		30 JUNE 2016	
DES: DWM	DRW: DWM	CHK: TH	
PROJECT MANAGER: JHEBLER			
IPT TECH. BRANCH HEAD: JBLUMENKRANTZ			
CHIEF ENG/ARCH: JBLUMENKRANTZ			

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
PWD/IPT: ETM SE WASHINGTON, DC 20390

MARINE BARRACKS WASHINGTON
WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

ARCHITECTURAL LEGEND & ABBREVIATIONS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079219
SHEET 4 OF 47

AG001

DRAWFORM REVISION: 12 MAY 2014

UNCLASSIFIED

FILE NAME: C:\Revit_Projects\NAVFAC_WASH\09257\Models\Arch\09257_A_bwmoser.rvt
REV/DATE: 6/24/2016 9:17:07 AM

ARCHITECTURAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AS LISTED OR REFERENCED ON LIFE SAFETY PLAN AND LIFE SAFETY CRITERIA OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
2. THE CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AS LISTED OR REFERENCED ON LIFE SAFETY PLAN AND LIFE SAFETY CRITERIA OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS. LARGE SCALE DETAILS OR PLANS SHALL GOVERN OVER SMALL SCALE DETAILS OR PLANS, DO NOT SCALE DRAWINGS.
4. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL EXIT SIGNS, EMERGENCY LIGHTING SYSTEMS, ALARM SYSTEMS AND AUTOMATIC SPRINKLER SYSTEMS AS REQUIRED BY APPLICABLE CODES AND STANDARDS OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
5. ALL FLOORS SHALL BE INSPECTED FOR DAMAGE, WARPING OR OTHER NOTICEABLE DEVIATIONS AND PATCHED AND LEVELED PRIOR TO COVERING WITH FLOOR FINISHES. INSTALLATION OF ACCESS FLOOR SYSTEM, OR ERECTION AND INSTALLATION OF COLD-FORMED FRAMING, ASSUME MAX. 1/4" LEVELING THICKNESS AND MAX. AREA OF 50% OF FLOORS THAT RECEIVE NEW FLOOR FINISH.
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MANUFACTURER'S RECOMMENDED MAINTENANCE PROCEDURES AND SCHEDULES.
7. ANY MANUFACTURER'S OR BRAND NAME PRODUCTS INDICATED OR SPECIFIED ARE DONE SO TO ESTABLISH A MINIMUM LEVEL OF QUALITY.
8. ALL CONSTRUCTION SHALL MEET OR EXCEED LOCAL INDUSTRY STANDARDS. DETAILS ARE PROVIDED TO INDICATE MINIMUM QUALITY AND TO GIVE STANDARDS OF CONSTRUCTION. IF A CONDITION IS NOT SPECIFICALLY DETAILED, SUBMIT A SIMILAR DETAIL FOR GUIDE AND APPROVAL.
9. THE LETTERS I, O, AND Q ARE NOT USED TO INDICATE DETAILS, SECTIONS OR ELEVATIONS.
10. PROVIDE PRESERVATIVE-TREATED WOOD AT ALL LOCATIONS WHERE WOOD IS IN DIRECT CONTACT WITH CONCRETE OR MASONRY.
11. PROVIDE 3/4" FIRE-RETARDANT TREATED PLYWOOD BACKING AT ALL ELECTRICAL, PHONE, AND SECURITY SYSTEM PANELS.
12. PROVIDE FIRE-RESISTANT TREATED WOOD BLOCKING FOR SECURE ANCHORAGE OF ALL SHELVES, RUNNING TRIM, RAILINGS, SUSPENDED ITEMS, DOOR-STOPS, GRAB-BARS, AND OTHER SIMILAR WOODWORK, HARDWARE, SPECIALTIES, ACCESSORIES, FIXTURES, OR EQUIPMENT.
13. PROVIDE WATER-RESISTANT GYPSUM BOARD AT ALL WET OR UNCONDITIONED AREAS INCLUDING, BUT NOT LIMITED TO, PARTITIONS BEHIND SINKS, CONTRACTOR TO INSURE THAT FIRE RATING IS MAINTAINED.
14. PAINT, STAIN, OR COAT ALL EXPOSED SURFACES OF CONSTRUCTION UNLESS NOTED OTHERWISE OR IF SURFACES ARE PRE-FINISHED.
15. ALL OPENING DIMENSIONS ARE NOMINAL. THE CONTRACTOR SHALL FIELD MEASURE ALL OPENINGS AND COORDINATE WITH THE APPROPRIATE SUPPLIER FOR ALL DOORS AND WINDOWS.
16. ALL CONDUITS, PLUMBING, PIPING, DUCTWORK, AND OTHER EQUIPMENT EXPOSED TO VIEW SHALL BE LOCATED PARALLEL OR PERPENDICULAR TO THE STRUCTURAL FRAMING SYSTEM.
17. PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS, WHERE REQUIRED.
18. ARCHITECTURAL DETAILS ARE APPLICABLE WHERE INDICATED BY SECTION CUT, BY NOTE, OR BY DETAIL TITLE. INCORPORATE SIMILAR DETAILS AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY REQUEST A CLARIFICATION IF REQUIRED, OTHERWISE THE MORE STRINGENT REQUIREMENTS SHALL CONTROL.
19. PROVIDE FIRE-STOPPING SYSTEMS AT TOP OF AND AT ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS.
20. SEAL AROUND ALL DOOR AND WINDOW FRAMES, WALL-MOUNTED FIXTURES AND EQUIPMENT TO ADJACENT WALL SURFACES.
21. THE CONTRACTOR SHALL REVIEW THE DIMENSIONS OF ALL EQUIPMENT IN THE PROJECT REGARDLESS OF THE SOURCE AND COORDINATE ACCESS TO THE SPACE AND VERIFY CLEAR FLOOR SPACE IS PROVIDED AS REQUIRED TO ENSURE EASE OF INSTALLATION.
22. ALL WORK MUST BE OF GOOD QUALITY, FREE FROM DEFECTS, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
23. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PENETRATIONS IN THE STRUCTURE FOR THE PROPER INSTALLATION OF THE WORK. REFER TO STRUCTURAL DRAWINGS FOR SECONDARY FRAMING AND OR REINFORCING REQUIRED AT PENETRATIONS IN STEEL, CONCRETE OR MASONRY.
24. THE CONTRACTOR SHALL PROVIDE ACCESS DOORS OR PANELS AS REQUIRED FOR SERVICING OF PIPING, DUCTWORK, CABLE TRAYS, FIRE DAMPERS AND SIMILAR APPLICATIONS. ALL PROPOSED ACCESS DOOR LOCATIONS TO BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
25. PROVIDE ALL HVAC, PLUMBING, GAS OR ELECTRIC SERVICE CONNECTIONS TO FIXTURES, SIGNAGE, OR EQUIPMENT INDICATED (WHETHER UNITS ARE INSTALLED BY CONTRACTOR OR BY OTHERS).
26. BRACE PARTITIONS, SUSPENDED CEILINGS, SOFFITS, SUSPENDED ITEMS, ETC. ONLY TO STRUCTURAL ELEMENTS ABOVE. DO NOT ANCHOR TO ROOF DECK, PLUMBING / SPRINKLER PIPES, DUCTWORK, ELECTRICAL CONDUIT OR SIMILAR ELEMENTS.
27. EXTEND ALL FLOORING AND WALL-BASE COMPLETELY INTO RECESSES AND BEHIND ALL EQUIPMENT.
28. ALL MATERIALS USED FOR CONSTRUCTION SHALL BE NEW AND UNDAMAGED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL WORK SHOWN.
29. THE CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK, ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE DESIGN PROFESSIONALS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
30. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
31. EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THE INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS.
32. "TYPICAL" (TYP) AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITIONS OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
33. CONTROL JOINTS (CJ) SHALL BE INSTALLED AT ALL PARTITIONS. CJ AT GYPSUM PARTITIONS SHALL BE MAXIMUM 30'-0" O.C., CJ AT CONCRETE MASONRY UNIT PARTITIONS SHALL BE MAXIMUM 20'-0" O.C., UNLESS OTHERWISE NOTED ON DRAWINGS. REFER TO ELEVATION DRAWINGS FOR EXTERIOR CONTROL JOINT LOCATIONS. REVIEW CJ LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
34. PRIOR TO BEGINNING ANY WORK, NOTIFY OWNER OF ANY EXISTING MATERIALS OBSERVED TO POSSIBLY CONTAIN ASBESTOS.
35. REMOVE ABANDONED PIPE, DUCTS, CONDUITS, AND EQUIPMENT INCLUDING THOSE ABOVE ACCESSSIBLE CEILINGS BACK TO THE SOURCE OF SUPPLY WHERE POSSIBLE. WHERE NOT POSSIBLE CAP, STUB, AND TAG WITH IDENTIFICATION. PATCH HOLES LEFT BY REMOVAL USING MATERIALS SPECIFIED FOR NEW CONSTRUCTION.
36. REMOVE EXISTING WORK AS INDICATED AND AS REQUIRED TO ACCOMPLISH NEW WORK.
37. WHERE EXISTING FINISHED SURFACES ARE CUT SO THAT A SMOOTH TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG A STRAIGHT LINE AT A NATURAL LINE OF DIVISION AND MAKE RECOMMENDATION TO ARCHITECT.
38. PROTECT EXISTING WORK TO REMAIN, PERFORM CUTTING TO ACCOMPLISH REMOVALS NEATLY AND AS SPECIFIED FOR CUTTING NEW WORK. REPAIR ADJACENT CONSTRUCTION AND FINISH DAMAGED DURING REMOVAL WORK. PATCH AS SPECIFIED FOR PATCHING NEW WORK.
39. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXTENT, NATURE, AND SCOPE OF WORK DESCRIBED IN THE CONTRACT DOCUMENTS AND COORDINATING WITH THE OWNER OR HIS/HER REPRESENTATIVE THE INTERFACING OF THE EXISTING BUILDING AND THE WORK SHOWN AND DESCRIBED IN THESE CONTRACT DOCUMENTS.
40. ALL "EXISTING" INFORMATION ON THE CONTRACT DOCUMENTS HAS BEEN OBTAINED FROM A PREVIOUS SET OF DRAWINGS, OR FROM FIELD INVESTIGATION AND SUCH "EXISTING" INFORMATION SHALL BE FIELD VERIFIED BY ALL CONTRACTORS.
41. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DESIGNATED CONSTRUCTION STAGING LOCATIONS, STORAGE AREAS, AND CONSTRUCTION SEQUENCING.
42. THE PREMISES WILL BE OCCUPIED AT ALL TIMES DURING THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING ALL INTERRUPTIONS OF UTILITIES, TEMPORARY EXITS, DUST PARTITIONS, DELIVERIES, AND ALL OTHER JOB REQUIREMENTS.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — RANDY WAYNE WEBB — No. 10029 — ARCHITECT

Wiley | Wilson | BURNS & McDONNELL — JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC Mid-Atl.

ACTIVITY:
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	DWM	DRW	DWM	CHK	TH

PROJECT MANAGER JHEBLER
IPT TECH. BRANCH HEAD JBLUMENKRANTZ
CHIEF ENGIARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
PWD/IPT 6TH ST. SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
GENERAL NOTES

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079220
SHEET 5 OF 47
AG002

DRAWFORM REVISION: 12 MAY 2014

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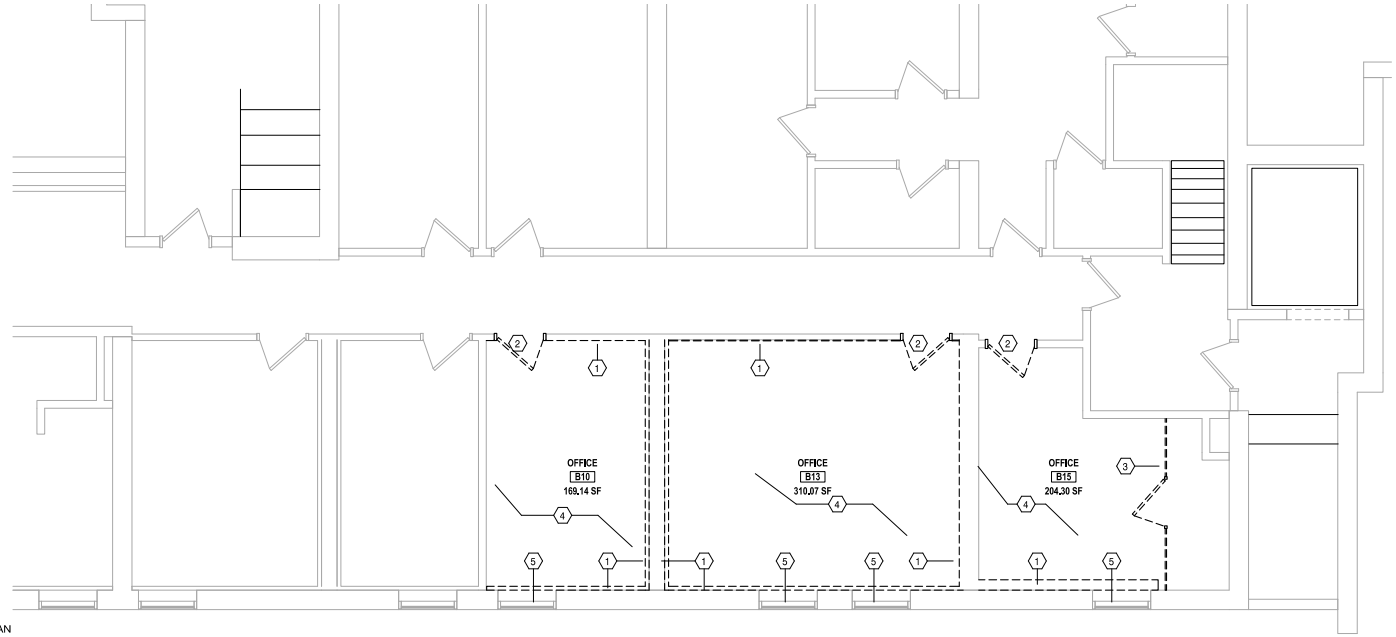


PLAN NORTH

DEMOLITION FLOOR PLAN - LEVEL B1

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

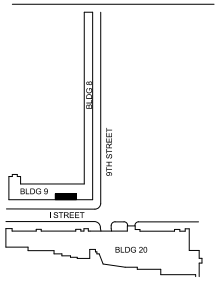
DEMOLITION FLOOR PLAN SHEET NOTES

1. REMOVE EXISTING WALL FINISHES AND STUD FRAMING/FURRING IN THEIR ENTIRETY BACK TO FACE OF EXISTING MASONRY WALL.
2. REMOVE EXISTING DOOR AND FRAME AND PATCH WALL OPENING AS REQUIRED.
3. REMOVE EXISTING WIRE MESH PARTITION AND GATE AND PATCH CONCRETE FLOOR AS REQUIRED.
4. REMOVE EXISTING CARPET AND ALL UNDERLAYMENTS/ADHESIVES TO LEAVE A CLEAN DUST FREE SUBFLOOR CONDITION.
5. REMOVE EXISTING WINDOW COVERING AND SILL

GENERAL FLOOR PLAN DEMOLITION NOTES:

1. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT SHOW ALL CONDITIONS THAT MAY AFFECT THE WORK OF THIS CONTRACT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, REFER TO ALL ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION AND COORDINATION.
2. FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCING ANY WORK, CONTRACTING OFFICER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES DETRIMENTAL TO THE PROPER EXECUTION OF NEW CONSTRUCTION.
3. ALL DEMOLITION WORK SHALL COMPLY WITH APPLICABLE BUILDING CODE AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS. SEE CODE SUMMARY SHEET FOR APPLICABLE BUILDING CODE.
4. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS, PROTECT ALL OTHER EXISTING STRUCTURES ON ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION ON ADJACENT PROPERTIES OR EXISTING CONSTRUCTION TO REMAIN ON SITE, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO THE SATISFACTION OF THE PROPERTY OWNER.
5. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION NOTED TO REMAIN FROM DAMAGE AND SOILING DURING DEMOLITION. REMOVE DEBRIS REGULARLY AS NECESSARY TO ELIMINATE INTERFERENCE.
6. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN THE OWNER'S PROPERTY, DEMOLISHED MATERIALS SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE WITH FURTHER DISPOSITION AT THE CONTRACTOR'S OPTION.
7. EXISTING WALLS SHOWN GRAPHICALLY WITH SOLID LINES TO REMAIN, PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AND PREPARE SURFACES TO RECEIVE NEW CONSTRUCTION OR FINISHES.
8. ALL DEMOLISHED MATERIALS SHALL BE LEGALLY DISPOSED OF PROMPTLY. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE. NO BURNING IS ALLOWED.
9. PROTECT ALL ADJACENT AREAS FROM THE DEMOLITION, REPAIR OR REPLACE, AT NO COST TO THE OWNER, ALL AREAS OR ITEMS DAMAGED DURING THE DEMOLITION.
10. LIMITS OF CONTRACT TO EXTEND UP TO, AND INCLUDE, THE PROPERTY LINES, AND SHALL NOT EXTEND BEYOND THESE LIMITS ONTO PUBLIC OR PRIVATE PROPERTY, EXCEPT AS INDICATED ON THE DRAWINGS.
11. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE CONTRACTING OFFICER IMMEDIATELY FOR RESOLUTION.
12. SOME LEAD PAINT IS EXPECTED TO BE ENCOUNTERED IN THE WORK. REFER TO LEAD PAINT ABATEMENT SPECIFICATION. IF ADDITIONAL MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE CONTRACTING OFFICER.
13. THIS DEMOLITION PLAN OUTLINES THE SCOPE OF THE WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL ALSO REFER TO THE DRAWINGS FOR THE NEW WORK FOR ADDITIONAL INFORMATION.
14. ALL WORK MUST BE COORDINATED WITH THE CONTRACTING OFFICER WITH REGARD TO SCHEDULE AND DISRUPTION OF BUSINESS OPERATIONS.
15. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT.
16. ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE OTHER WORK OF THIS PROJECT AS OUTLINED IN THE DOCUMENTS. ANY DISCREPANCIES NOTED WHICH WILL IMPACT THE SCHEDULE FOR CONSTRUCTION OR HAVE AN EFFECT ON THE CONTINUED OPERATION OF BUSINESS AT THIS FACILITY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTING OFFICER FOR RESOLUTION.
17. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
18. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
19. PRIOR TO COMMENCEMENT WITH ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
20. CARE SHOULD BE MADE TO KEEP DUST AND NOISE FROM DEMOLITION ACTIVITIES FROM THE OTHER PORTIONS AND FLOORS OF THE BUILDING. ERECT AND MAINTAIN DUSTPROOF PARTITIONS. COVER AND PROTECT FURNITURE, FURNISHINGS AND EQUIPMENT THAT HAVE NOT BEEN REMOVED.
21. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDING AREAS TO REMAIN.
22. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE ADJOINING CONSTRUCTION TO REMAIN.
23. REMOVE ALL EXISTINGFINISH FLOORING AND EXISTING BASE FROM ALL AREAS TO BE REMODELED. FLOOR MUST BE FREE OF DUST, DIRT, OIL, GREASE, PAINT, WAX OR ANY DEBRIS THAT COULD AFFECT ADHESION OF THE NEW FLOORING FINISHES TO THE EXISTING SUBFLOOR DURING BUILD-BACK PHASE.
24. DRYWALL PARTITIONS: REMOVE GYPSUM BOARD, STEEL FRAMING, RUNNERS, TRACKS, ANCHORS AND FASTENERS, UNLESS OTHERWISE NOTED OR SHOWN, PATCH ANCHOR HOLES WHERE CEILING, WALLS, AND FLOORS ARE TO REMAIN.
25. CONTRACTOR SHALL COMPLY WITH ALL NECESSARY FIRE SAFETY REQUIREMENTS IN ACCORDANCE WITH **1988 UFC AND** NFPA 13 AND CURRENTLY ADOPTED CITY AND STATE CODES.

KEY PLAN:



1/4" = 1'-0"

0 2' 4' 8'
SCALE IN FEET

DWN	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — DARRYL WAYNE BUSS — ARCHITECT — SEAL

Wiley | Wilson | BURNS & McDONNELL — JOINT VENTURE

A/E INFO

APPROVED: Jay Blumenkrantz
FOR COMMANDER NAVFAC B.L.T.

ACTIVITY: NAVFAC WASHINGTON

SATISFACTORY TO DATE: 30 JUNE 2016

DES	DWM	DRW	DWM	CHK	TH

PROJECT MANAGER: JHEBLER
IPT TECH. BRANCH HEAD: JBLUMENKRANTZ
CHIEF ENGIARCH: JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
1314 SE STREET, WASHINGTON, DC 20390
PWD/IPT MARINE BARRACKS WASHINGTON, WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

DEMOLITION FLOOR PLAN

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079221
SHEET 6 OF 47
AD101

DRAWFORM REVISION: 12 MAY 2014

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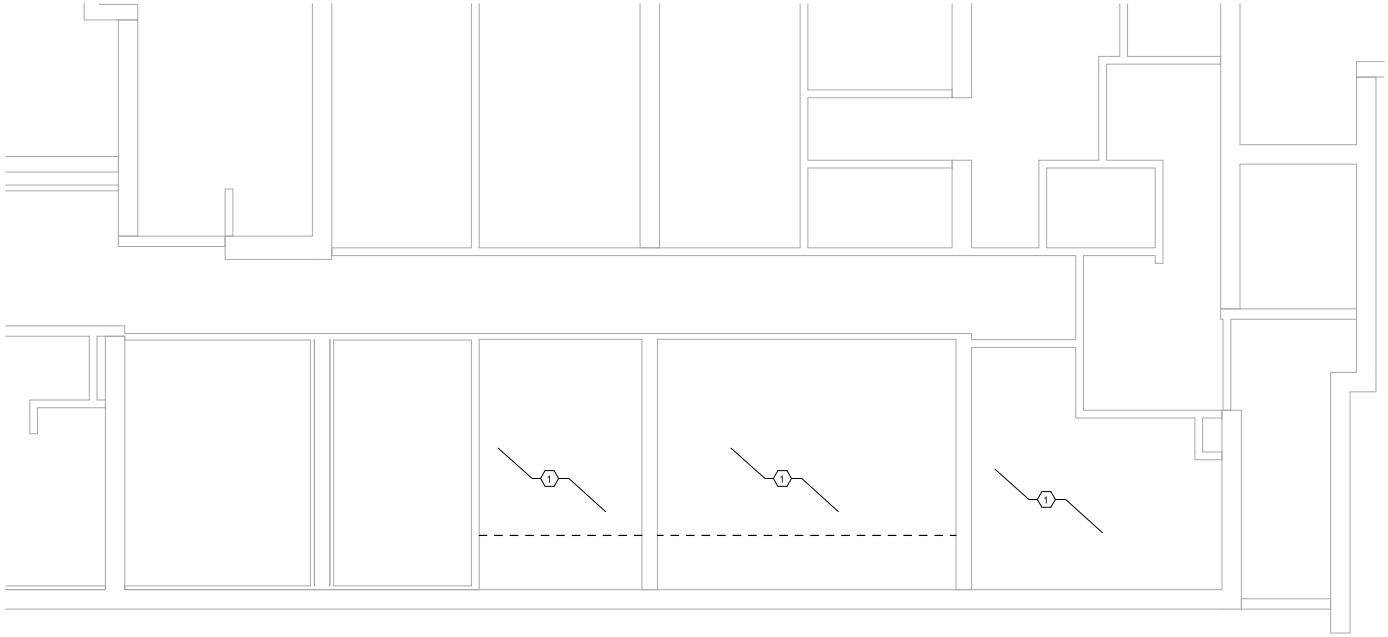


PLAN NORTH

DEMO REFLECTED CEILING PLAN - LEVEL B1

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

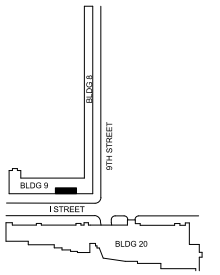
GENERAL REFLECTED CEILING PLAN DEMOLITION NOTES:

1. SEE GENERAL NOTES ON DEMOLITION PLANS.
2. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT SHOW ALL CONDITIONS THAT MAY AFFECT THE WORK OF THIS CONTRACT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. REFER TO ALL ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION AND COORDINATION.
3. DEMOLISH CEILING FINISHES & FIXTURES AT AREAS OF WALL DEMOLITION UNLESS NOTED OTHERWISE.
4. ALL CEILINGS, LIGHTING, SPEAKERS, ETC. SHALL BE REMOVED IN ALL NEW WORK AREAS.
5. PRIOR TO COMMENCEMENT WITH ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION, THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
6. ALL SPRINKLER HEADS TO REMAIN ACTIVE AT ALL TIMES. CUT AWAY GYPSUM CEILINGS AND ACOUSTICAL CEILING TILE AROUND ALL SPRINKLER HEADS. COORDINATE WORK BETWEEN DISCIPLINES.

DEMOLITION RCP SHEET NOTES

1. DEMOLISH EXISTING SUSPENDED ACOUSTICAL TILE CEILING IN ITS ENTIRETY, INCLUDING GWB BULKHEADS/SOFFITS. PATCH ALL HOLES IN CEILING AND WALLS WHERE SUPPORTS/FINISHES ARE REMOVED TO PROVIDE SMOOTH SURFACE FOR RECEIVING NEW SPECIFIED FINISHES.

KEY PLAN:



1/4" = 1'-0"

0 2' 4' 8'
SCALE IN FEET

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — DARYL WAYNE WOOD — No. 10089 — ARCHITECT

SEAL

Wiley | Wilson | BURNS McDONNELL — JOINT VENTURE

A/E INFO

APPROVED: Jay Blumenkrantz
FOR COMMANDER NAVFAC B.L.T.

ACTIVITY: NAVFAC WASHINGTON

SATISFACTORY TO DATE: 30 JUNE 2016

DES Designer: DRW Author: CHK Checker:
PROJECT MANAGER: JHEBLER
IPT TECH. BRANCH HEAD: JBLUMENKRANTZ
CHIEF ENGIARCH: JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
PWD/IPT 1314 SE STREET, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

DEMOLITION CEILING PLAN

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079222
SHEET 7 OF 47
AD151

DRAWFORM REVISION: 12 MAY 2014

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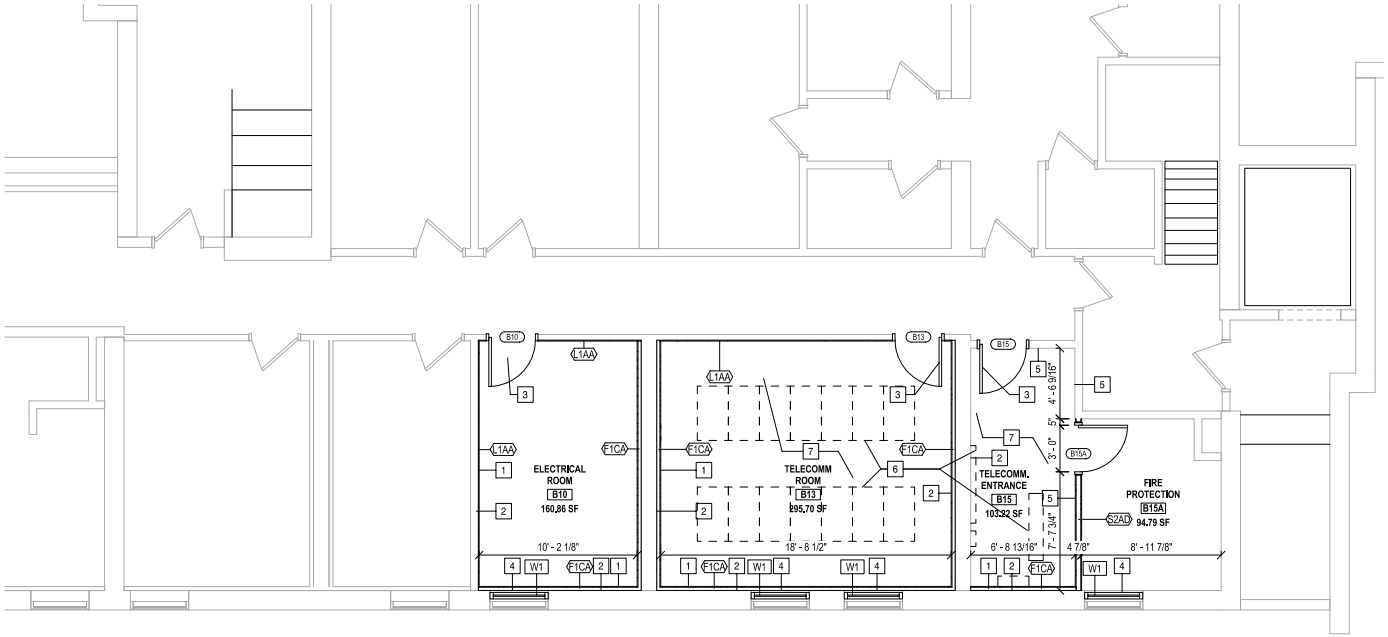


PLAN NORTH

NEW WORK AREA FLOOR PLAN - LEVEL B1

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

B2
A-201

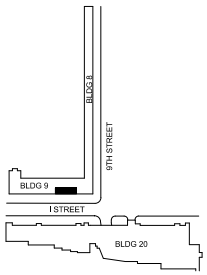
GENERAL FLOOR PLAN NOTES:

1. FOR ARCHITECTURAL GENERAL NOTES, MATERIAL LEGEND, AND ABBREVIATIONS REFER TO SHEET AG001.
2. REFERENCE PARTITION TYPES FOR FIRE RATED WALL LOCATIONS. ALL FIRE RATED WALLS ARE CONTINUOUS ACROSS ALL DOOR OPENINGS.
3. FOR PARTITION TYPES CONSTRUCTION AND DESCRIPTION REFER TO PARTITION TYPES SHEET.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE BEGINNING WORK AND FABRICATION. THE CONTRACTING OFFICER SHALL BE NOTIFIED IN WRITING IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO CASE SHALL DIMENSIONS BE SCALED OFF PLANS, SECTIONS, OR DETAILS FROM THESE DRAWINGS.
5. DOOR LOCATIONS NOT DIMENSIONED ARE 6 INCHES FROM FACE OF GYPSUM BOARD FINISH WALL TO DOOR JAMB FACE, EXCLUDING NEW DOORS BEING INSTALLED IN EXISTING OPENINGS. VERIFY THERE IS A PULL SIDE MINIMUM 18 INCHES CLEAR FROM DOOR STRIKE TO INTERSECTING WALL FOR ADA COMPLIANCE. NOTIFY CONTRACTING OFFICER FOR NON-COMPLIANCE BEFORE SETTING DOOR FRAME AND WALL LOCATIONS.
6. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION. ALL FLOOR FINISHES TO BE CONTINUOUS UNDER MILLWORK AND EQUIPMENT UNLESS NOTED OTHERWISE.
7. PROVIDE 18GA METAL PLATE OR FIRE TREATED WOOD BLOCKING IN WALL FOR ALL WALL MOUNTED EQUIPMENT.
8. REFERENCE THE REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
9. ALL DIMENSIONS ARE FROM: FACE OF MASONRY WALL, FINISH FACE OF METAL STUD WALL, AND FACE OF CONCRETE WALLS, UNLESS NOTED OTHERWISE.
10. THE FIRST FLOOR FINISHED FLOOR ELEVATION IS 100'-0" UNLESS NOTED OTHERWISE.

NEW WORK AREA FLOOR PLAN SHEET NOTES:

1. FURRING AND/OR WALL FINISH - SEE PARTITION SCHEDULE.
2. APPLY RF BLOCKING PAINT TO EXISTING MASONRY (BEFORE INSTALLING NEW FURRING/WALL FINISH WHERE SCHEDULED). RF BLOCKING PAINT IS A MAIN COMPONENT PART OF A TOTAL RF SHIELDING SYSTEM FOR ROOMS B15, B13 & B10.
3. RF BLOCKING DOOR AND FRAME - SEE DOOR SCHEDULE.
4. BLAST RESISTANT FIXED WINDOW UNIT, SEE STRUCTURAL FOR ATTACHMENT TO EXISTING MASONRY WALL. PROVIDE RF BLOCKING FILM ON INTERIOR GLAZING SURFACE. PROVIDE WINDOW STOOL AT NEW WINDOW.
5. APPLY RF BLOCKING PAINT OVER FINISH SUBSTRATE AND PRIOR TO FINAL FINISH.
6. TELECOM EQUIPMENT - SEE TELECOM DRAWINGS
7. WALLS TO RECIEVE 3/4" FIRE RETARDANT TREATED PLYWOOD, 8' HIGH OVER GWB FINISH. PAINT AS SCHEDULED

KEY PLAN:



1/4" = 1'-0"

0 2' 4' 8'
SCALE IN FEET

DWN	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — DARRYL WAYNE BUSH — No. 10089 — ARCHITECT — SEAL

Wiley/Wilson | BURNS McDONNELL — JOINT VENTURE

A/E ENG

APPROVED: Jay B Lumenkranz
FOR COMMANDER NAVFAC Date

ACTIVITY: NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	DWM	DRW	DWM	CHK	TH

PROJECT MANAGER JHEBLER
IPT TECH. BRANCH HEAD JBLUMENKRANTZ
CHIEF ENGIARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/IPT NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
9TH ST. SE WASHINGTON, DC 20390

MARINE BARRACKS WASHINGTON
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
WASHINGTON, DC

DIMENSIONED FLOOR PLAN

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079223
SHEET 8 OF 47
A-101

DRAWFORM REVISION: 12 MAY 2014

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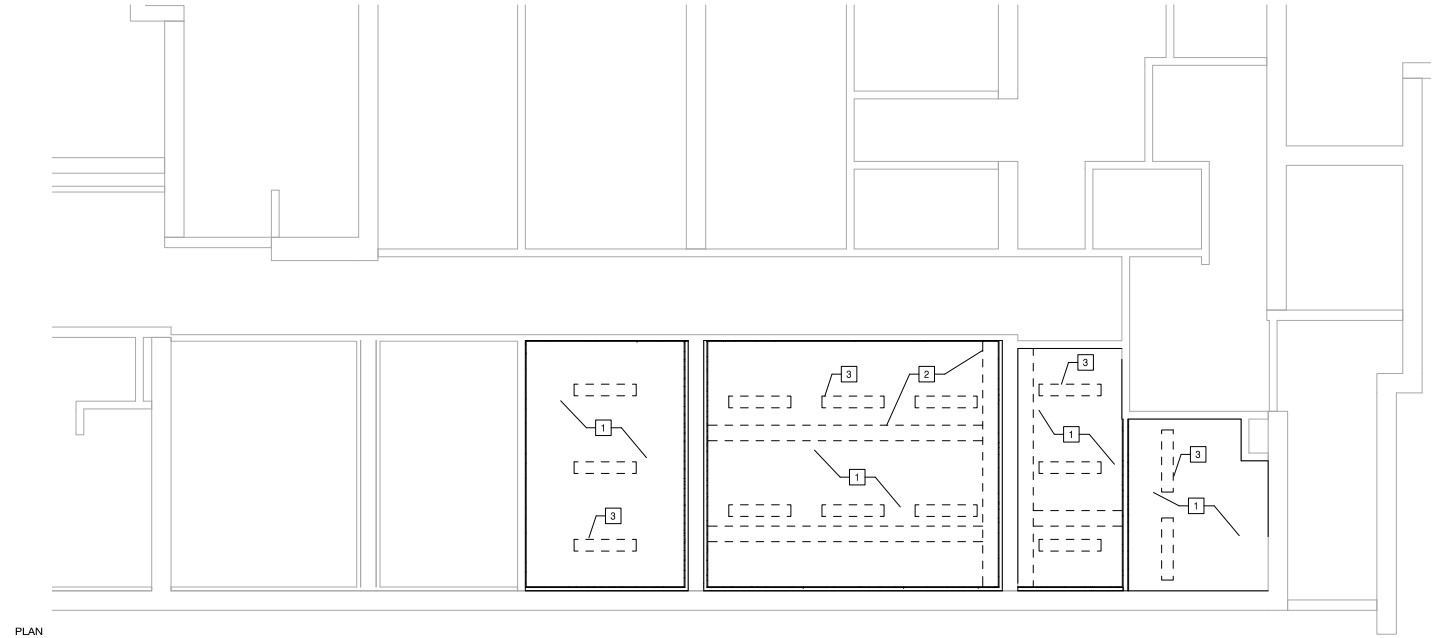


PLAN NORTH

NEW WORK AREA RCP - LEVEL B1

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

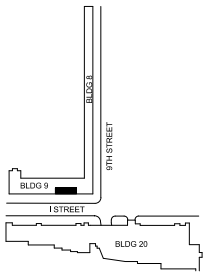
GENERAL REFLECTED CEILING PLAN NOTES:

1. FOR ARCHITECTURAL MATERIAL LEGEND, AND ABBREVIATIONS REFER TO SHEET AG001. FOR ARCHITECTURAL GENERAL NOTES REFER TO AG002.
2. ARCHITECTURAL CEILING PLANS INDICATE DIMENSIONING AND PLACEMENT OF VARIOUS CEILING MOUNTED DEVICES. REFER TO MEP DRAWINGS AND SPECIFICATIONS FOR ALL OTHER INFORMATION FOR MEP SYSTEMS INCLUDING BUT NOT LIMITED TO FIRE SUPPRESSION, FIRE ALARM DEVICES, SECURITY DEVICES, EXIT DEVICES, DIFFUSERS, LIGHTING, LIGHTING CONTROL DEVICES, AND ACCESS PANELS.
3. CEILING HEIGHTS NOT SHOWN, EXPOSED EXISTING STRUCTURE.
4. ALIGN ALL CEILING MOUNTED DEVICES.
5. REFERENCE ROOM FINISH SCHEDULE FOR ADDITIONAL CEILING FINISH INFORMATION.
6. CEILING MOUNTED EXIT SIGNS TO BE CENTERED WITHIN DOOR FRAME OR OPENING. MOUNT 4" OFF FACE OF WALL.
7. ALL SPRINKLERS, JUNCTION BOXES & SMOKE DETECTORS TO ALIGN WITH ADJACENT LIGHT FIXTURES, UNLESS NOTED OTHERWISE.

NEW WORK AREA RCP SHEET NOTES

1. PATCH AND REPAIR EXPOSED CEILING STRUCTURE TO BE PAINTED WITH RF BLOCKING PAINT - SEE FINISH SCHEDULE.
2. CEILING MOUNTED CABLE TRAY - SEE TELECOM
3. CEILING MOUNTED LIGHT FIXTURES - SEE ELECTRICAL

KEY PLAN:



1/4" = 1'-0"

0 2' 4' 8'
SCALE IN FEET

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — DARRYL WAYNE BUSS — No. 10687 — ARCHITECT — SEAL

Wiley | Wilson — BURNS McDONNELL — JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC Bl...

ACTIVITY:
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	DWM	DRW	DWM	CHK	TH

PROJECT MANAGER JHEBLER
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9TH ST. SE - WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

REFLECTED CEILING AREA PLANS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079224
SHEET 9 OF 47
A-151

DRAWFORM REVISION: 12 MAY 2014

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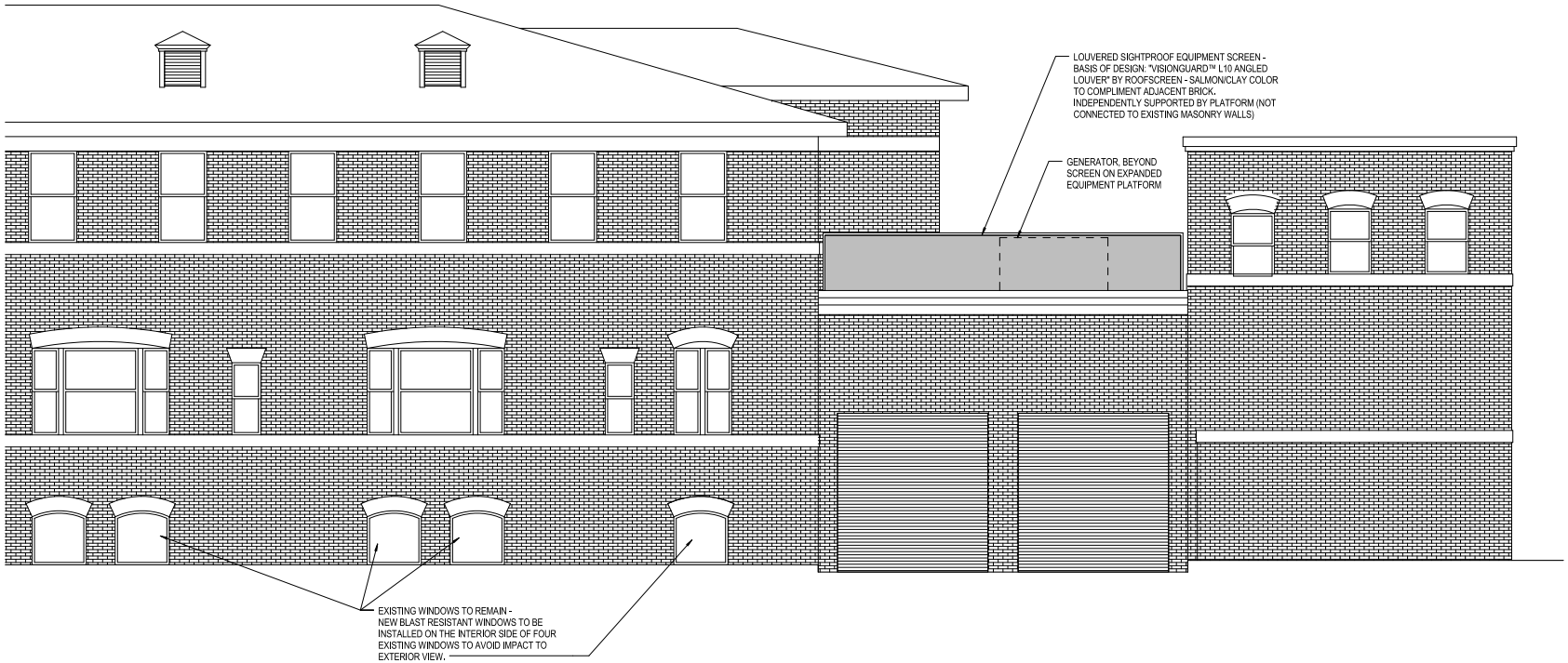

B2 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

1/4" = 1'-0" 0 2' 4' 8' SCALE IN FEET

DWN	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — GARY L. WAYNE WEBB — No. 10089 — ARCHITECT

Wiley | Wilson | BURNS & McDONNELL JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	DWM	DRW	JBA	CHK	TH

PROJECT MANAGER JHEBLER
IPT TECH. BRANCH HEAD JBLUMENKRANTZ
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6700 SS. WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
EXTERIOR BUILDING ELEVATIONS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079225
SHEET 10 OF 47
A-201

DRAWFORM REVISION: 12 MAY 2014

UNCLASSIFIED

FILE NAME: C:\Revit_Projects\NAVFAC_WASH\09257\Models\Arch\09257_A_bwmoser.rvt
REV/DATE: 6/24/2016 9:17:02 AM

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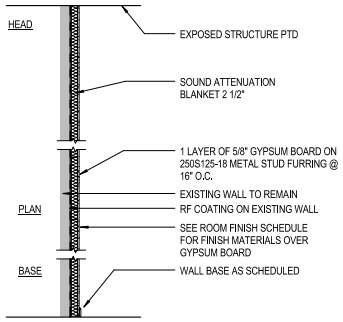
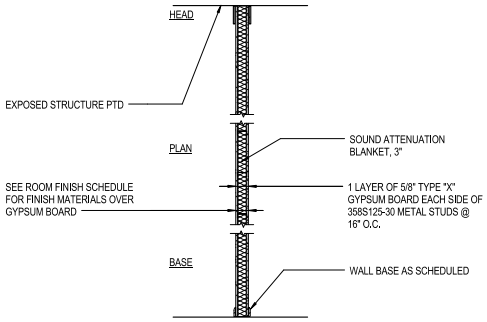
PARTITION TYPE F1



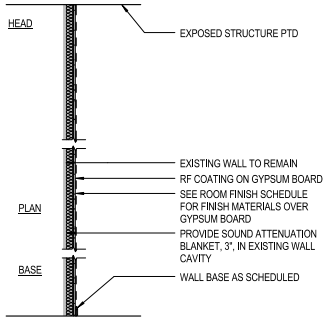
TYPE	STC	FIRE RATING	UL DESIGN NO	HEAD DETAIL	BASE DETAIL	TYPE COMMENTS
F1CA	-	-	-	-	-	2 1/2" FURRING STUDS AT 16" O.C. VERTICALLY

PARTITION TYPE S2



TYPE	STC	FIRE RATING	UL DESIGN NO	HEAD DETAIL	BASE DETAIL	TYPE COMMENTS
S2AD	-	60 MIN	U465	-	-	3 5/8" METAL STUDS WITH SOUND ATTENTUATION/FIRE BLANKET INSULATION.

PARTITION TYPE L1

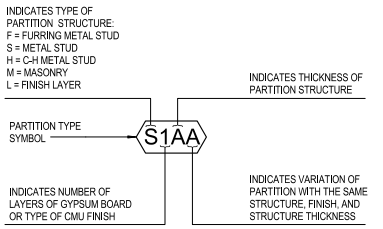


TYPE	STC	FIRE RATING	UL DESIGN NO	HEAD DETAIL	BASE DETAIL	TYPE COMMENTS
L1AA	NIC 40	-	-	-	-	NIC RATING INCLUDES EXISTING PARTITION.

PARTITION TYPES GENERAL NOTES:

1. WHERE STRUCTURAL MEMBERS PENETRATE FIRE-RATED GYPSUM BOARD WALLS, TAPE & SEAL WITH FIRE STOPPING SEALANT.
2. PROVIDE MINIMUM 20 GAUGE METAL BACKING AS REQUIRED FOR INSTALLATION OF EXTINGUISHER CABINETS, ACCESS PANELS, ELECTRICAL AND FIRE PROTECTION SYSTEM PANELS, UNLESS NOTED OTHERWISE.
3. ALL METAL STUDS AND BRACING SHALL BE 20 GAUGE UNLESS NOTED OTHERWISE, REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. REFERENCE DRAWING A-101 FOR PARTITION TYPE LOCATIONS.

PARTITION TYPE SYMBOL LEGEND:



NO	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — GARY L. WAYNE WEBB — No. 10089 — ARCHITECT

SEAL

Wiley/Wilson | BURNS & McDONNELL — JOINT VENTURE

A/E INFO

APPROVED:

FOR COMMANDER NAVFAC B.L.T.

ACTIVITY:

NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	DWM	DRW	DWM	CHK	TH

PROJECT MANAGER JHEBLER

IPT TECH. BRANCH HEAD JBLUMENKRANTZ

CHIEF ENGIARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/IPT NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
ETI SSC WASHINGTON, DC 20390

MARINE BARRACKS WASHINGTON, WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

PARTITION TYPES

SCALE: AS NOTED

EPROJECT NO. 1321174

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 13079226

SHEET 11 OF 47

A-501

DRAWFORM REVISION: 12 MAY 2014

UNCLASSIFIED

FILE NAME: C:\Revit_Projects\NAVFAC_WASH\BR25\Models\Arch\BR25\T_A_bwmoser.rvt

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DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	ASSEMBLY RATING	STC	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	HARDWARE SET	REMARKS
B10	-	3' - 0"	7' - 0"	F	WD		3' - 4"	7' - 2"	1,1	HM	PA-2	-	-	B1/A-601	B2/A-601	B3/A-601	See RF Door Specification	RF BLOCKING DOOR & FRAME. MATCH EXISTING DOOR FINISH
B13	-	3' - 0"	7' - 0"	F	WD		3' - 4"	7' - 2"	1,1	HM	PA-2	-	-	B1/A-601	B2/A-601	B3/A-601	See RF Door Specification	RF BLOCKING DOOR & FRAME. MATCH EXISTINGDOOR FINISH
B15	-	3' - 0"	7' - 0"	F	WD		3' - 4"	7' - 2"	1,1	HM	PA-2	-	-	B1/A-601	B2/A-601	B3/A-601	See RF Door Specification	RF BLOCKING DOOR & FRAME. MATCH EXISTING DOOR FINISH
B15A	-	3' - 0"	7' - 0"	F	WD		3' - 4"	7' - 2"	1,1	HM	PA-2	45 MIN	-	B1/A-601	B2/A-601	B3/A-601	See RF Door Specification	RF BLOCKING DOOR & FRAME. MATCH EXISTINGDOOR FINISH

WINDOW SCHEDULE

QUANTITY	TYPE	SIZE WIDTH	SIZE HEIGHT	HEAD HEIGHT	SILL HEIGHT	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	REMARKS
4	W1	3' - 9"	3' - 4"	6' - 4"	3' - 0"	A1/A-601	A2/A-601	A3/A-601	MATCH EXISTING WINDOW FRAME COLOR

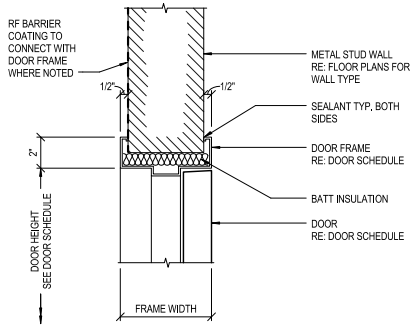
DOOR AND FRAME LEGEND

FINISH	
FF-1*	FACTORY FINISHED
PE-1**	PAINT-EPOXY
MATERIAL	
AL	ALUMINUM
HM	HOLLOW METAL
WD	WOOD
SIZE	
-	SINGLE DOOR
PR	PAIR OF DOORS
UPR	UNEQUAL PAIR

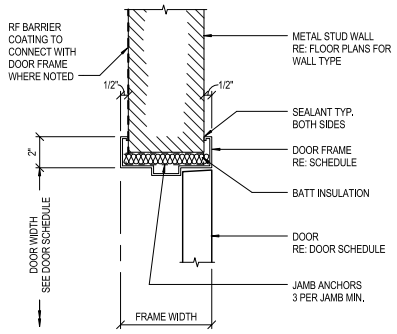
*REFERENCE DOOR OR FRAME SPECIFICATION
**FIELD APPLY PER PAINT SPECIFICATION FOR APPLICABLE SUBSTRATE AND EXPOSURE.

GENERAL DOOR AND WINDOW NOTES:

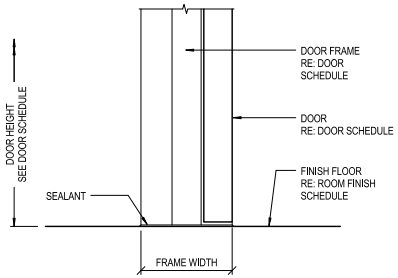
1. ALL DOORS AND WINDOWS TO MATCH EXISTING OPENINGS, FIELD VERIFY ALL OPENINGS
2. ALL RF BLOCKING DOORS AND FRAMES TO CONNECT TO RF COATING ON EXISTING WALLS
3. ALL WINDOWS TO BE BLAST RATED, WITH RF WINDOW FILM ON INTERIOR FACE OF LITE. RF FILM TO CONNECT TO RF COATING ON EXISTING WALLS



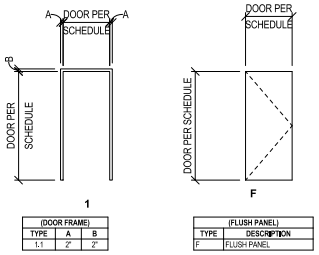
B1 DOOR HEAD
SCALE: 3" = 1'-0"



B2 DOOR JAMB
SCALE: 3" = 1'-0"



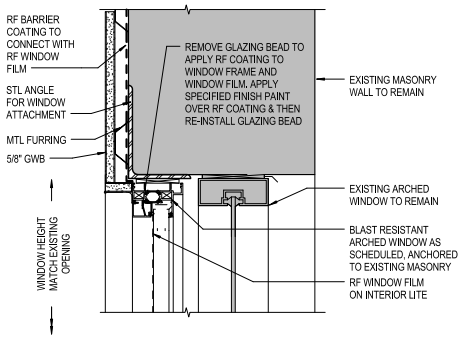
B3 DOOR SILL
SCALE: 3" = 1'-0"



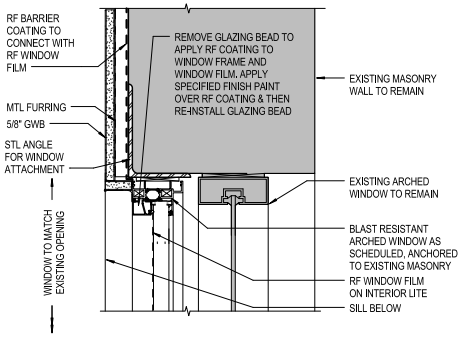
(DOOR FRAME)		
TYPE	A	B
1,1	2"	2"

(FLUSH PANEL)	
TYPE	DESCRIPTION
F	FLUSH PANEL

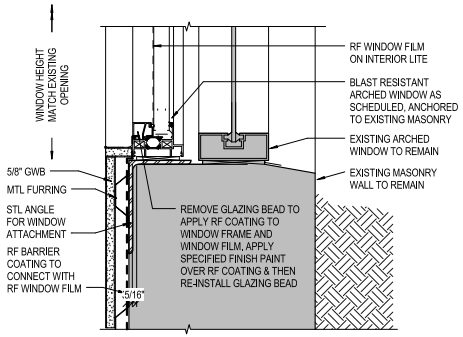
DOOR AND FRAME TYPES
SCALE: NOT TO SCALE



A1 BLAST WINDOW HEAD
SCALE: 3" = 1'-0"



A2 BLAST WINDOW JAMB
SCALE: 3" = 1'-0"



A3 BLAST WINDOW SILL
SCALE: 3" = 1'-0"

3" = 1'-0"
0 3" 6" 9"
SCALE IN FEET

DATE	DESCRIPTION	APPR

NAVFAC

STATE OF MARYLAND
DARRYL WAYNE MUSSER
No. 15692
ARCHITECT
SEAL

Wiley/Wilson | BURNS McDONNELL
JOINT VENTURE
A/E ENG

APPROVED
FOR COMMANDER NAVFAC B.L.T.

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	DWM	DRW	LPS	CHK	TH

PROJECT MANAGER JHEBLER
IPT TECH. BRANCH HEAD JBLUMENKRANTZ
CHIEF ENGIARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/IPT NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
ETSI SE WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
DOOR & WINDOW SCHEDULES

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079227
SHEET 12 OF 47
A-601

DRAWFORM REVISION: 12 MAY 2014

FILE NAME: C:\Revit_Projects\NAVFAC_WASH\09257\Models\Arch\09257_A_bnmosser.rvt
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ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE MATERIAL	BASE HEIGHT	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	REMARKS
B10	ELECTRICAL ROOM	RF-1	RB-1	4"	PRF-1/PA-1	PRF-1/PA-1	PRF-1/PA-1	PRF-1/PA-1	PRF-1/PA-1	
B13	TELECOMM ROOM	RF-1	RB-1	4"	PRF-1/PA-1	PRF-1/PA-1	PRF-1/PA-1	PRF-1/PA-1	PRF-1/PA-1	ALL WALLS TO HAVE FIRE RETARDENT TREATED PLYWOOD SHEATHING
B15	TELECOMM. ENTRANCE	RF-1	RB-1	4"	PRF-1/PA-1	PRF-1/PA-1	PRF-1/PA-1	PRF-1/PA-1	PRF-1/PA-1	ALL WALLS TO HAVE FIRE RETARDENT TREATED PLYWOOD SHEATHING
B15A	FIRE PROTECTION	CS-1	-	-	PA-1	PA-1	PA-1	PA-1	PA-1	

FINISH LEGEND - BASIS OF DESIGN OR EQUIVALENT

MATERIAL	DESCRIPTION	MANUF.	MODEL NUMBER	PRODUCT NUMBER	COLOR	REMARKS
CONCRETE						
CS-1	SEALED CONCRETE	-	-	-	-	
FLOORING						
RF-1	STATIC DISSIPATIVE TILE, 12"x12"	STATIC SMART	SUMMIT SERIES	6005	RAINIER	APPLY RF BLOCKING PAINT TO EXISTING CONC. FLOOR AND LET CURE PRIOR TO INSTALLING TILE
GLAZING						
GLZ-1	GLAZING	-	-	-	-	1" BLAST RESISTANT GLAZING WITH RF FILM
PAINT						
PA-1	ACRYLICLATEX, EGGSHELL - FIELD	SHERWIN WILLIAMS	-	-	SW7005 PURE WHITE	
PA-2	ACRYLICLATEX, SEMI-GLOSS - TRIM	SHERWIN WILLIAMS	-	-	-	MATCH EXISTING TRIM COLOR
PRF-1/PA-1	RF BLOCKING PAINT	AIR PURE PAINTS	EMR SHEILDING PAINT	-	-	APPLY PER MANUFACTURER'S INSTRUCTIONS AND FOLLOW SUBMITTAL, SURFACE PREP, APPLICATION AND CLEANUP REQUIREMENTS OF SPEC SECTION 09 90 00. IN CASE OF CONFLICT, FOLLOW MANUFACTURER'S INSTRUCTIONS .
RESILIENT BASE						
RB-1	RESILIENT BASE, 4" H COVE	JOHNSONITE	DC	168	THUNDER	

GENERAL ROOM FINISH SCHEDULE NOTES:

1. REFER TO SPECIFICATIONS FOR THE BASIS OF DESIGN OR EQUIVALENT MANUFACTURER TECHNICAL REQUIREMENTS.
2. REFLECTED CEILING DRAWINGS, AND ENLARGED PLAN DRAWINGS FOR ADDITIONAL FINISH PLACEMENT INFORMATION.
3. REFER TO ELECTRICAL DRAWINGS, MECHANICAL DRAWINGS, STRUCTURAL DRAWINGS AND COMMUNICATION DRAWINGS FOR COORDINATION OF BUILDING FINISHES TO BUILDING SYSTEMS.
4. REFER TO REFLECTED CEILING DRAWINGS FOR CEILING INFORMATION.
5. UNLESS NOTED OTHERWISE, ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED TO MATCH ADJACENT WALL OR CEILING.
6. ALL WINDOW SILLS TO BE PTD GWB.
7. ALL DOOR FRAMES TO BE PAINTED TO MATCH EXISTING DOOR FRAMES.
8. INTERIOR CAULKING TO MATCH ADJACENT WALL FINISH COLOR.
9. ALL EXPOSED CONCRETE FLOORS SHALL BE SEALED.
10. PAINT ALL EXPOSED STRUCTURAL STEEL ELEMENTS, MISCELLANEOUS STEEL, PIPING, HANGERS, VALVES AND CONDUITS EXCEPT PRE-FINISHED LINER PANELS AND FOAM GENERATORS. THE PAINT COLOR SHALL BE AS INDICATED ON SCHEDULE, ALL FIRE PROTECTION PIPING COLOR SHALL BE SAFETY RED.
11. ALL EXPOSED MECHANICAL AND ELECTRICAL EQUIPMENT AND ASSOCIATED SUPPORTING EQUIPMENT TO BE PAINTED TO MATCH ADJACENT WALL OR CEILING UNLESS OTHERWISE REQUIRED BY CODE. COORDINATE WITH MECHANICAL / ELECTRICAL FOR FINISHES ON MECHANICAL OR ELECTRICAL EQUIPMENT.
12. DO NOT PAINT PRE-FINISHED ITEMS, FINISHED METAL SURFACES, OPERATING PARTS, LABELS OR WARNINGS.
13. WHERE NOTED IN THE ROOM FINISH SCHEDULE REMARKS, WALLS TO HAVE 8' HIGH 3/4" THICK FRT PLYWOOD OVER THE GWB WALL FINISH SECURED TO THE STRUCTURE BEHIND. PAINT PLYWOOD AS SCHEDULED.
14. AT ALL RF BLOCKING PAINT LOCATIONS, PROVIDE 2 COATS. WHERE RF BLOCKING PAINT IS EXPOSED, PROVIDE PA-1 PAINT ON TOP OF THE 2 COATS OF RF BLOCKING PAINT.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF MARYLAND — DARRYL WAYNE BURNS — No. 10089 — ARCHITECT — SEAL

Wiley | Wilson | BURNS McDONNELL — JOINT VENTURE — A/E ENG

APPROVED: FOR COMMANDER NAVFAC B.L.T.

ACTIVITY: NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES DWM | DRW DWM | CHK TH

PROJECT MANAGER JHEBLER

IPT TECH. BRANCH HEAD JBLUMENKRANTZ

CHIEF ENGIARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
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PWD/IPT NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
6TH ST. SE, WASHINGTON, DC 20390

MARINE BARRACKS WASHINGTON
WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

ROOM FINISH SCHEDULE

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079228
SHEET 13 OF 47

A-701

DRAWFORM REVISION 12 MAY 2014

FILE NAME: C:\Revit_Projects\NAVFAC_WASH\69257\Models\Arch\69257_A_bwmoser.rvt
REVDATE: 6/24/2016 9:17:05 AM

FIRE ALARM LEGEND

FACP	FIRE ALARM CONTROL PANEL
FSCP	FIRE SYSTEM CONTROL PANEL CA = CLEAN AGENT
PS	PRESSURE SWITCH (BY DIVISION 21) H = HIGH L = LOW
VS	TAMPER SWITCH (BY DIVISION 21)
H	HORN
	HORN / FIRE ALARM STROBE COMBINATION
	STROBE
P	CEILING MOUNTED SMOKE DETECTOR
AOM	ADDRESSABLE OUTPUT MODULE
AIM	ADDRESSABLE INPUT MODULE
	SUPERVISED DISCONNECT
	GROUND
BATT	SECONDARY POWER SUPPLY (BATTERY)
SS	SURGE SUPPRESSOR
CA	CLEAN AGENT MANUAL RELEASE STATION
CA	CLEAN AGENT SYSTEM ABORT SWITCH
CA	CLEAN AGENT AUDIBLE HORN/BLUE STROBE
CA	CLEAN AGENT BLUE STROBE
SOL CA	CLEAN AGENT SOLENOID VALVE (DIV 21)

ABBREVIATIONS:

AC	ALTERNATING CURRENT
ACH	AIR CHANGES PER HOUR
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AWG	AMERICAN WIRE GAGE
CA	CLEAN AGENT
CD	CANDELA
CFM	CUBIC FEET PER MINUTE
dBA	DECIBEL A-WEIGHTED
FA	FIRE ALARM
FX	FIRE SUPPRESSION
HZ	HERTZ
IAW	IN ACCORDANCE WITH
IDC	INITIATING DEVICE CIRCUIT
NAC	NOTIFICATION APPLIANCE CIRCUIT
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
SLC	SIGNALING LINE CIRCUIT
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES

DETAIL/SECTION TITLE

SECTION, DETAIL OR ELEVATION IDENTIFICATION MARK

SECTION, DETAIL OR ELEVATION TITLE

PLATE NUMBER WHERE SECTION, DETAIL OR ELEVATION IS TAKEN

DETAIL CALLOUT SYMBOL

DETAIL NUMBER

PLATE NUMBER WHERE DETAIL IS DRAWN

SECTION CUT SYMBOL

SECTION LETTER

PLATE NUMBER WHERE SECTION IS DRAWN

VIEW SECTION

DESIGN CRITERIA:

1. AUDIBLE NOTIFICATION SHALL BE PROVIDED FOR ALL AREAS AND ROOMS THROUGHOUT THE AREA OF WORK. THE FOLLOWING DESIGN CRITERIA SHALL BE ACCOMPLISHED WITH ALL DOORS, FIRE SHUTTERS, AND WINDOWS CLOSED. WHERE THIS DESIGN CRITERIA IS NOT ACCOMPLISHED DURING COMMISSIONING, THE CONTRACTOR SHALL PROVIDE ADDITIONAL DEVICES TO MEET THE MINIMUM DESIGN CRITERIA REQUIREMENTS AT NO ADDITIONAL COST. AS-BUILT DRAWINGS SHALL DEMONSTRATE THE ADDITIONAL DEVICES AND OR MODIFICATIONS TO THE INSTALLED DEVICES DO NOT EXCEED THE LIMITATIONS OF THE FACP, FSCP, NAC BOOSTER PANEL (INCLUSIVE OF SAFETY FACTORS).
2. A HORN IS NOT REQUIRED IN EVERY ROOM, HORN PERFORMANCE MUST ADHERE TO THE SOUND POWER CRITERIA WITHIN THE SPECIFICATIONS, CONTRACT DRAWINGS, NFPA 72.
3. THE SOUND POWER OF THE AUDIBLE NOTIFICATION SHALL BE A MINIMUM OF 70 DBA AND 15 DBA OVER THE AMBIENT CONDITIONS AT THE MOST REMOTE LOCATION WITHIN THE ROOM OR AREA. THE FOLLOWING CRITERIA SHALL BE UTILIZED FOR REVIEW AND APPROVAL OF SHOP DRAWINGS.
   - A. THE SOUND POWER SHALL BE REDUCED BY 6 DBA EACH TIME THE DISTANCE BETWEEN THE APPLIANCE AND THE LISTENER IS DOUBLED. STARTING DISTANCE IS PER MANUFACTURER'S DATASHEET, TYPICALLY 10 FT.
   - B. THE SOUND POWER SHALL BE REDUCED IN ACCORDANCE WITH THE MANUFACTURER'S DATASHEET FOR SOUND POWER DISTRIBUTION NOT PERPENDICULAR TO THE SPEAKER FACE. REFER TO MANUFACTURER'S TYPICAL SOUND OUTPUT DISTRIBUTION DIAGRAM.
   - C. A MINIMUM 15 DBA LOSS SHALL BE ASSUMED THROUGH A STANDARD CLOSED DOOR.
4. STROBE SPACING FOR THE FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72 UNLESS OTHERWISE NOTED. COLORED STROBE CANDELA SETTINGS SHALL BE INCREASED ACCORDINGLY FOR THE MANUFACTURER'S DERATING FACTOR TO ACHIEVE THE SAME SPACING AS CLEAR STROBES OF THE SAME MODEL.

GENERAL FIRE ALARM NOTES:

1. REMOVE EXISTING AND PROVIDE NEW FIRE ALARM DEVICES IN AREAS INDICATED. CONNECT TO EXISTING FIRE ALARM SYSTEM. PROVIDE DEDICATED RELEASING PANEL FR NEW PREACTION AND CLEAN AGENT SYSTEMS FOR THE TELECOM ROOMS.
2. THE FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW A MINIMAL QUANTITY OF DEVICES. CONTRACTOR SHALL DETERMINE THE FINAL QUANTITY AND LOCATION OF ALL DEVICES IN ACCORDANCE WITH THE SPECIFICATIONS, CONTRACT DRAWINGS, AND MANUFACTURER'S WRITTEN RECOMMENDATIONS TO BE COMPLIANT WITH ALL APPLICABLE CODES AND STANDARDS. ADDITIONAL DEVICES SHALL BE PROVIDED FOR A FULLY FUNCTIONING FIRE ALARM SYSTEM AS REQUIRED BY NFPA 72, UFC 3-600-01, UFC 3-600-10N.
3. ALL CONDUITS SHALL BE CONCEALED IN WALLS, FLOOR SLABS OR CEILINGS UNLESS OTHERWISE INDICATED. EXCEPTION: CONDUIT SHALL BE ALLOWED TO BE SURFACE MOUNTED ON WALLS AND CEILINGS IN UNFINISHED AREAS (E.G. MECHANICAL ROOM, ELECTRICAL ROOM, RISER ROOM). WHERE CONDUIT FEEDS DEVICES NOT MOUNTED DIRECTLY ON THE WALL OR CEILING, THE CONDUIT SHALL BE ROUTED AS A SINGLE PENDENT TYPE DROP TO EACH DEVICE.
4. ALL EXPOSED FIRE ALARM CONDUITS AND JUNCTION BOXES IN UNFINISHED AREAS SHALL BE PAINTED RED OR PRE-FINISHED RED FROM THE FACTORY. CONDUIT AND JUNCTION BOXES EXPOSED IN FINISHED AREAS SHALL BE FINISHED TO MATCH ADJACENT FINISHES. PROVIDE CONDUIT STRIPING PER SPECIFICATIONS.
5. CONDUIT SHALL BE SUPPORTED IN STRICT ACCORDANCE WITH THE NEC (E.G.10 FT INTERVALS AND 3 FT FROM TERMINATION). TENSION ONLY HANGERS ARE NOT PERMITTED (E.G. BATWINGS). TYPE OF CONDUIT UTILIZED SHALL BE IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT IS ONLY PERMITTED FOR TERMINATION AT DEVICES MOUNTED ON PIPING OR SUBJECTED TO REMOVAL (E.G. FLOW SWITCHES, TAMPER SWITCHES, HORNS AND STROBES MOUNTED IN REMOVABLE CEILINGS).
6. NAC CONDUCTOR SIZE SHALL NOT BE LESS THAN 14 AWG. SLC CONDUCTOR SIZING SHALL NOT BE LESS THAN 16 AWG. ALL CONDUCTORS SHALL BE CONSISTENTLY COLOR COORDINATED THROUGH THE SYSTEM IN RELATION TO DEVICES THEY FEED CONSISTENT WITH THE EXISTING SYSTEM. ALL CIRCUITS SHALL BE PROVIDED WITH LABELING AT POINT OF TERMINATION.
7. CONDUCTORS SHALL BE RUN FROM DEVICE TO DEVICE WITHOUT SPLICES. WIRE NUTS SHALL BE PROHIBITED. TERMINAL STRIPS SHALL BE UTILIZED WHERE CONDUCTORS CANNOT BE DIRECTLY TERMINATED AT THE DEVICE (E.G. PIGTAILS OFF A HEAT DETECTOR).
8. FIRE ALARM EQUIPMENT PANELS SHALL NOT BE USED AS RACEWAY FOR ROUTING POWER WIRING OR LOW VOLTAGE WIRING. ONLY WIRING TERMINATING WITH THE PANEL SHALL BE ROUTED INTO THE PANEL. POWER WIRING AND POWER LIMITED WIRING SHALL BE SEPARATED BY A MINIMUM OF TWO INCHES WITHIN THE EQUIPMENT PANELS.
9. MOUNTING DEVICES IN THE FACP, FSCP, AND NAC BOOSTER PANELS WHICH ARE NOT UL LISTED AS PART OF THE PANEL IS PROHIBITED.
10. ALL POWER SUPPLIES TO FACP, FSCP, NAC BOOSTER PANELS, SHALL BE PROVIDED WITH SURGE SUPPRESSORS. ALL SLC, NAC, OR IDC CIRCUITS ENTERING OR LEAVING THE BUILDING SHALL BE PROVIDED WITH SURGE SUPPRESSORS. EXCEPTION: CIRCUITS TO DEVICES MOUNTED DIRECTLY ON THE EXTERIOR OF THE BUILDING DO NOT REQUIRE SURGE SUPPRESSORS (E.G. EXTERIOR ALARM BELL). SURGE SUPPRESSORS SHALL BE MOUNTED IN A SEPARATE ENCLOSURE.

DWG	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
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6/23/16
PROFESSIONAL ENGINEER
SEAL

Wiley | Wilson | BURNS McDONNELL
JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC / ELL.T.

ACTIVITY:
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	EJS	DRW	DRS	CHK	WRM

PROJECT MANAGER JHIBLER
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CHIEF ENG/ARCH JBLUMENKRANTZ

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WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

FIRE ALARM SYMBOLS, LEGEND AND ABBREVIATIONS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079229
SHEET 14 OF 47

FA001

DRAWFORM REVISION, 12 MAY 2014

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NOTES:

1. REFER TO FA001 FOR GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND SYMBOLS.

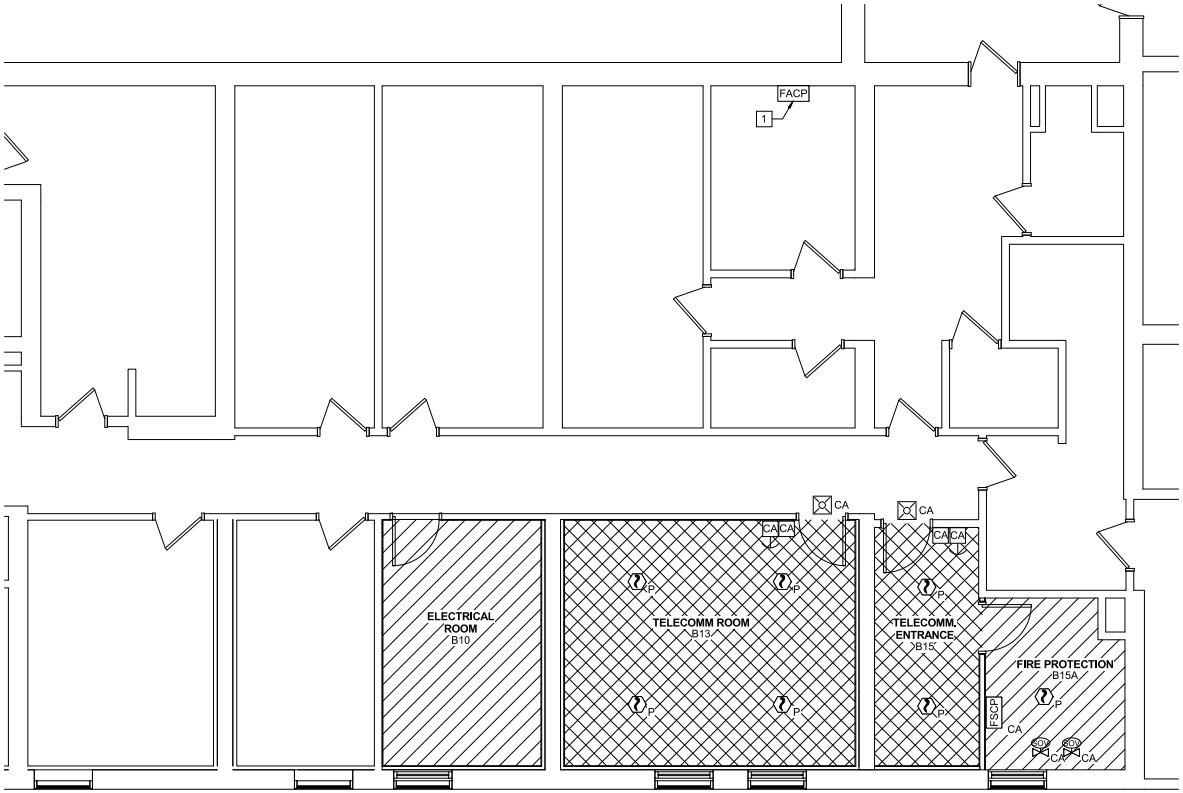
KEYED NOTES:

1 EXISTING BUILDING FACP (NOTIFIER)

FIRE ALARM HATCH LEGEND:

PROVIDE FIRE ALARM HORN(S) AND STROBE(S) TO ACHIEVE DESIGN CRITERIA.

PROVIDE FIRE ALARM HORN(S) AND STROBE(S) TO ACHIEVE DESIGN CRITERIA. PROVIDE CLEAN AGENT AUDIBLE HORNS/BLUE STROBES TO ACHIEVE DESIGN CRITERIA.

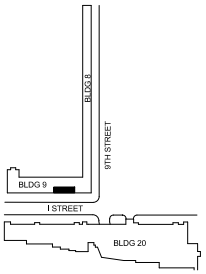


PLAN NORTH

BASEMENT FIRE ALARM PLAN

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

KEY PLAN:



GRAPHIC SCALE:

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

DATE	DESCRIPTION	APPR

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A/E INFO

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ACTIVITY:
NAVFAC WASHINGTON

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DES	EJS	DRW	DRR	CHK	WRM

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MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

BASEMENT FIRE ALARM PLAN

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079230
SHEET 15 OF 47

FA101

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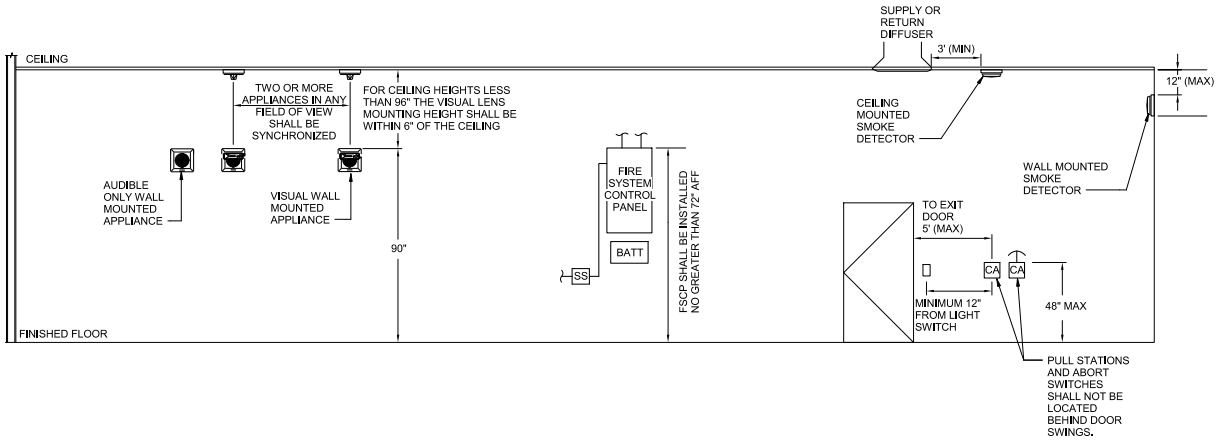

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MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

FIRE ALARM DETAILS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079231
SHEET 16 OF 47

FA501

DRAWFORM REVISION, 12 MAY 2014

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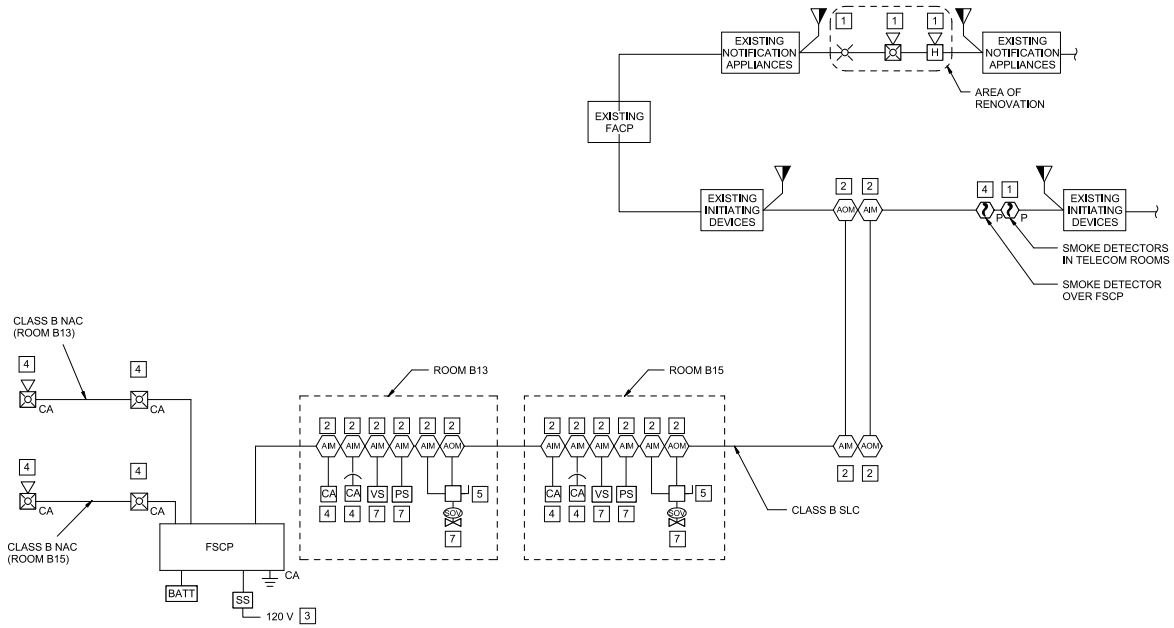

NOTES:

1. REFER TO THE FIRE ALARM LEGEND FOR GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS, AND SYMBOLS.
2. THE FIRE ALARM RISER SHOWS THE INTENT OF THE FIRE ALARM INFRASTRUCTURE. NOT ALL DEVICES ARE SHOWN. CONTRACTOR SHALL PROVIDE THE QUANTITY OF DEVICES AS REQUIRED TO COMPLY WITH NFPA 72, UFC 3-600-01, UFC 3-600-10N, AND CONTRACT DOCUMENTS.
3. WHERE AN ADDRESSABLE INPUT MODULE IS UTILIZED, PROVIDE AN END-OF-LINE RESISTOR TO MONITOR THE INTEGRITY OF THE CLASS B CIRCUIT TO THE CONVENTIONAL DEVICE.
4. EXISTING DEVICES/PANELS OUTSIDE THE AREA OF RENOVATION SHALL REMAIN UNLESS NOTED. VERIFY EXISTING CIRCUITS, QUANTITY OF DEVICES/PANELS, AND LOCATIONS AS REQUIRED FOR RECONNECTION TO THE FACP.
5. RECONNECT TO EXISTING DEVICEs TO MAINTAIN ORIGINAL FUNCTIONALITY. (E.G. WHERE NOTIFICATION DEVICES ARE SYNCHRONIZED, THEY SHALL REMAIN SYNCHRONIZED.)
6. WHERE RECONNECTING TO EXISTING CIRCUITS, THE INTEGRITY OF THE CLASSIFICATION SHALL BE MAINTAINED. (E.G. IF ORIGINALLY CLASS B, CIRCUIT WILL REMAIN CLASS B).
7. EXISTING FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS SHALL BE MAINTAINED.

KEYED NOTES:

1. QUANTITY AND LOCATION BY CONTRACTOR'S DESIGN TO MEET DESIGN CRITERIA.
2. PROVIDE ADDRESSABLE INPUT AND OUTPUT MODULE(S) AS REQUIRED TO ACHIEVE THE FUNCTIONALITY INDICATED ON THE MATRIX.
3. 120 V CIRCUIT FROM DEDICATED PANEL.
4. SEE FIRE ALRM PLANS FOR QUANTITY AND LOCATION.
5. SUPERVISED DISCONNECT AND CONNECTION TO CA SOLENOID VALVE.
6. SUPERVISED DISCONNECT AND CONNECTION TO PREACTION SOLENOID VALVE.
7. CONNECT TO RELEASING SOLENOID, VALVE TAMPER SWITCH, PRESSURE SWITCH ON CLEAN AGENT TANK. SEE FIRE SUPPRESSION DRAWINGS FOR TANK LOCATION.
8. CONNECT TO RELEASING SOLENOID, VALVE TAMPER SWITCH, WATERFLOW PRESSURE SWITCH, AND SUPERVISORY AIR PRESSURE SWITCH ON PREACTION RISER. SEE FIRE SUPPRESSION DRAWINGS FOR QUANTITY AND LOCATION.

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MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
FIRE ALARM RISER

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079232
SHEET 17 OF 47
FA601

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FIRE ALARM CONTROL PANEL (FACP) FUNCTIONAL MATRIX

	ANNUNCIATION AT LOCAL PANEL			NOTIFICATION				AUXILIARY FUNCTION	
ALARM CONDITIONS	AUDIO-VISUAL FIRE ALARM INDICATION BY DEVICE	AUDIO-VISUAL TROUBLE INDICATION BY DEVICE	AUDIO-VISUAL SUPERVISORY INDICATION BY DEVICE	FIRE ALARM SIGNAL TO FIRE DEPARTMENT	COMMON TROUBLE SIGNAL TO FIRE DEPARTMENT	COMMON SUPERVISORY CONDITION TO FIRE DEPARTMENT	ACTIVATE FIRE ALARM HORNS AND STROBES	INPUT TO FSCP: ONE DETECTOR IN ALARM	INPUT TO FSCP: TWO DETECTORS IN ALARM
AREA SMOKE DETECTOR	X			X			X		
ONE AREA SMOKE DETECTOR IN TELECOM ROOM IN ALARM	X			X			X	X	
MORE THAN ONE AREA SMOKE DETECTOR IN TELECOM ROOM IN ALARM	X			X			X		X
ONE AREA SMOKE DETECTOR IN TELECOM ENTRANCE ROOM IN ALARM	X			X			X	X	
MORE THAN ONE DETECTOR IN TELECOM ENTRANCE ROOM IN ALARM	X			X			X		X
TROUBLE CONDITIONS									
FSCP TROUBLE		X			X				
SUPERVISORY CONDITIONS									
FSCP SUPERVISORY			X			X			

CLEAN AGENT FIRE SYSTEM CONTROL PANEL (RSFACU) FUNCTIONAL MATRIX

	ANNUNCIATION AT FSCP			NOTIFICATION						AUXILIARY FUNCTION			
ALARM CONDITIONS	AUDIO-VISUAL ALARM INDICATION BY DEVICE	AUDIO-VISUAL TROUBLE INDICATION BY DEVICE	AUDIO-VISUAL SUPERVISORY INDICATION BY DEVICE	FSCP ALARM SIGNAL TO FIRE ALARM CONTROL PANEL (PRE-DISCHARGE)	FSCP RELEASE SIGNAL TO FIRE ALARM CONTROL PANEL (DISCHARGE)	COMMON TROUBLE SIGNAL TO FIRE ALARM CONTROL PANEL	COMMON SUPERVISORY SIGNAL TO FIRE ALARM CONTROL PANEL	ACTIVATE PRE-DISCHARGE VISIBLE AND AUDIBLE ALARM NOTIFICATION APPLIANCES	ACTIVATE DISCHARGE VISIBLE AND AUDIBLE ALARM NOTIFICATION APPLIANCES	SILENCE VISIBLE AND AUDIBLE ALARM NOTIFICATION APPLIANCES	INITIATE DISCHARGE TIME DELAY	PAUSE DISCHARGE TIME DELAY	RESUME DISCHARGE TIME DELAY	ACTIVATE RELEASE SOLENOID VALVE
MANUAL RELEASING STATION	X			X	X			X			X			X
ONE DETECTOR IN PROTECTED AREA IN ALARM	X			X										
TWO DETECTORS IN PROTECTED AREA IN ALARM	X				X									X
DISCHARGE PRESSURE SWITCH	X				X			X						X
DISCHARGE TIME DELAY COMPLETE	X				X			X						X
DEPRESS ABORT STATION BUTTON			X				X					X		
RELEASE ABORT STATION BUTTON													X	
TROUBLE CONDITIONS														
AC POWER FAILURE		X			X									
LOW BATTERY		X			X									
OPEN CIRCUIT FAULT		X			X									
GROUND FAULT		X			X									
NOTIFICATION APPLIANCE CIRCUIT SHORT		X			X									
COMPONENT COMMON TROUBLE		X			X									
SUPERVISORY CONDITIONS														
CLEAN AGENT RELEASING SOLENOID DISCONNECT			X			X								
COMPONENT COMMON SUPERVISORY			X			X								

NO.	DESCRIPTION	DATE	APPR.

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9TH ST SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
FIRE ALARM MATRIX

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079233
SHEET 18 OF 47
FA602

DRAW/FORM REVISION: 12 MAY 2014

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FIRE SUPPRESSION LEGEND

- PRESSURE RELIEF VALVE
- OUTSIDE SCREW AND YOKE VALVE (OS&Y)
- VALVE
- DOUBLE CHECK BACKFLOW PREVENTOR
- CHECK VALVE
- PIPE CAP
- AUTOMATIC DRAIN VALVE
- REDUCER
- FIRE DEPARTMENT CONNECTION
- PRESSURE GAUGE
- SIGHT GLASS
- PRESSURE SWITCH
- SOLENOID VALVE
- RISER LOCATION

FIRE SUPPRESSION SYSTEM

- WET SYSTEM

PIPING SYMBOLS

- DRAIN PIPING
- SYSTEM PIPING
- ELBOW DOWN
- ELBOW UP
- TEE DOWN
- TEE UP

CONSTRUCTION INTERFACE

- EXISTING TO REMAIN — DEMOLITION
- EXISTING TO REMAIN — NEW WORK

FIRE SUPPRESSION ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AS	AUTOMATIC SPRINKLER
CA	CLEAN AGENT
GFE	GOVERNMENT FURNISHED EQUIPMENT
FL	FIRE LINE
FP	FIRE PROTECTION
FM	FM GLOBAL
(M)	MECHANICALLY SUPERVISED
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
(S)	ELECTRICALLY SUPERVISED
SPR	SPRINKLER PIPE
SQ FT	SQUARE FOOT

DETAIL/SECTION TITLE

SECTION, DETAIL OR ELEVATION IDENTIFICATION MARK

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PLATE NUMBER WHERE SECTION, DETAIL OR ELEVATION IS TAKEN

DETAIL CALLOUT SYMBOL

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SECTION CUT SYMBOL

SECTION LETTER

PLATE NUMBER WHERE SECTION IS DRAWN

VIEW SECTION

FIRE SUPPRESSION DESIGN CRITERIA

1. THE FIRE SUPPRESSION SYSTEM SHALL BE SERVED FROM THE EXISTING DOMESTIC SYSTEM. CONTRACTOR SHALL PERFORM A HYDRANT FLOW TEST, AND INCORPORATE THIS TEST INTO THE HYDRAULIC CALCULATIONS. HYDRANT FLOW TESTING SHALL BE IN ACCORDANCE WITH NFPA 291, AND THE RESULTS OF THE TESTING SHALL BE SUBMITTED AS INDICATED IN NFPA 291 FIGURE 4.11.2.5.
2. HYDRAULIC CALCULATIONS SHALL INCLUDE A 10% OR 5 PSI SAFETY FACTOR, WHICHEVER IS GREATER.
3. THE FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED AND INSTALLED BY A LICENSED / CERTIFIED COMPANY WHERE EMPLOYEES ARE LICENSED / CERTIFIED TO INSTALL FIRE PROTECTION EQUIPMENT IN WASHINGTON, DC.
4. ALL COMPONENTS AND ASSEMBLIES USED IN THIS FIRE PROTECTION SYSTEM MUST BE SPECIFICALLY UL LISTED / FM APPROVED FOR THEIR INTENDED USE.
5. FIRE WATER PIPING USED ON THIS PROJECT SHALL BE SCHEDULE 40 BLACK STEEL.

FIRE SUPPRESSION GENERAL NOTES

1. REMOVE ESITING SPRINKLER PIPING IN AREAS INDICATED. PROVIDE ALL NECESSARY COMPONENTS FOR A CLEAN AGENT SYSTEM IN THE AREAS INDICATED . AT A MINIMUM PROVIDE COMPONENTS AS INDICATED ON THESE DRAWINGS. CONTRACTOR SHALL PROVIDE ADDITIONAL COMPONENTS AND MODIFICATIONS AS REQUIRED TO PROVIDE A FULLY FUNCTIONING FIRE SUPPRESSION SYSTEM.
2. ALL COMPONENTS AND ASSEMBLIES USED IN THIS FIRE PROTECTION SYSTEM MUST BE SPECIFICALLY LISTED/APPROVED FOR THEIR INTENDED USE BY A NATIONALLY RECOGNIZED TESTING ORGANIZATION WHOSE LISTING /APPROVAL PROCESS INCLUDES FOLLOW-UP FACTORY INSPECTIONS TO ENSURE THAT PRODUCTS COMPLY WITH THE LISTING/APPROVAL CONDITION.
3. ALL SYSTEMS WHICH REQUIRE COORDINATION BETWEEN TRADES SHALL BE TO THE SATISFACTION OF THE ENGINEER AND AUTHORITY HAVING JURISDICTION. ANY DEFICIENCIES, INCONSISTENCIES, OR POORLY COORDINATED INSTALLATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
4. FINAL DESIGN REQUIREMENTS (DEVICE QUANTITY, SIZE, AND LOCATIONS) ARE THE SOLE RESPONSIBILITY OF THE FIRE SUPRESSION CONTRACTOR. DRAWINGS INDICATE MINIMUM REQUIREMENTS; THE FIRE SUPPRESSION CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING AND COORDINATING FINAL DESIGN REQUIREMENTS WITH THESE CONSTRUCTION DOCUMENTS, SPECIFICATIONS, REFERENCE DOCUMENTS, APPLICABLE CODES, AND FACILITY USER REQUIREMENTS.
5. ALL DRAIN PENETRATIONS THRU EXTERIOR WALL SHALL BE NO GREATER THAN 2'-0" ABOVE FINISHED GRADE
6. ALL VALVES INCLUDING CONTROL AND TRIM VALVES SHALL BE WITHIN 6'-0" AFF.

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

MARK	HAZARD CLASSIFICATION	SYSTEM TYPE	DENSITY GPM/SF	REMOTE AREA SQ FT	MAXIMUM AREA PER HEAD SQ FT	HOSE DEMAND GPM	SPRINKLER CHARACTERISTICS				ADDITIONAL CODE REFERENCE	NOTES
							TEMP RATING	TYPE	MINIMUM K-FACTOR	FINISH		
	LIGHT HAZARD (FMHC-1)	PRE	0.10	1500	225	250	ORDINARY	QUICK RESPONSE	5.6	WHITE		2,3
	ORDINARY HAZARD (FMHC-2)	WET	0.20	2500	130	250	ORDINARY	QUICK RESPONSE	8.0	WHITE		2,3

NOTE 1: WHERE CEILINGS ARE NOT PROVIDED USE BRASS UPRIGHT HEADS.
NOTE 2: WHERE CEILINGS ARE PRESENT USE WHITE QUICK RESPONSE SEMI-RECESSED HEADS.

DATE	DESCRIPTION	APPR.

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
6/23/16
PROFESSIONAL ENGINEER
SEAL

Wiley/Wilson | BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC / ELL.T.

ACTIVITY:
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	EJS	DRW	DRR	CHK	WRM

PROJECT MANAGER JHEBLER
PT TECH. BRANCH HEAD JBLUMENKRANTZ
CHIEF ENG/ARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/DIPT NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
9TH ST. SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
FIRE SUPPRESSION NOTES, LEGEND AND ABBREVIATIONS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079234
SHEET 19 OF 47
FX001

DRAWFORM REVISION, 12 MAY 2014

FILE NAME: C:\Revit_Projects\NAVFAC_WASH\89257\Models\MEP\89257_F_sphdfxlsov.rvt
REVDATE: 6/23/2016 3:48:51 PM

UNCLASSIFIED

NOTES:

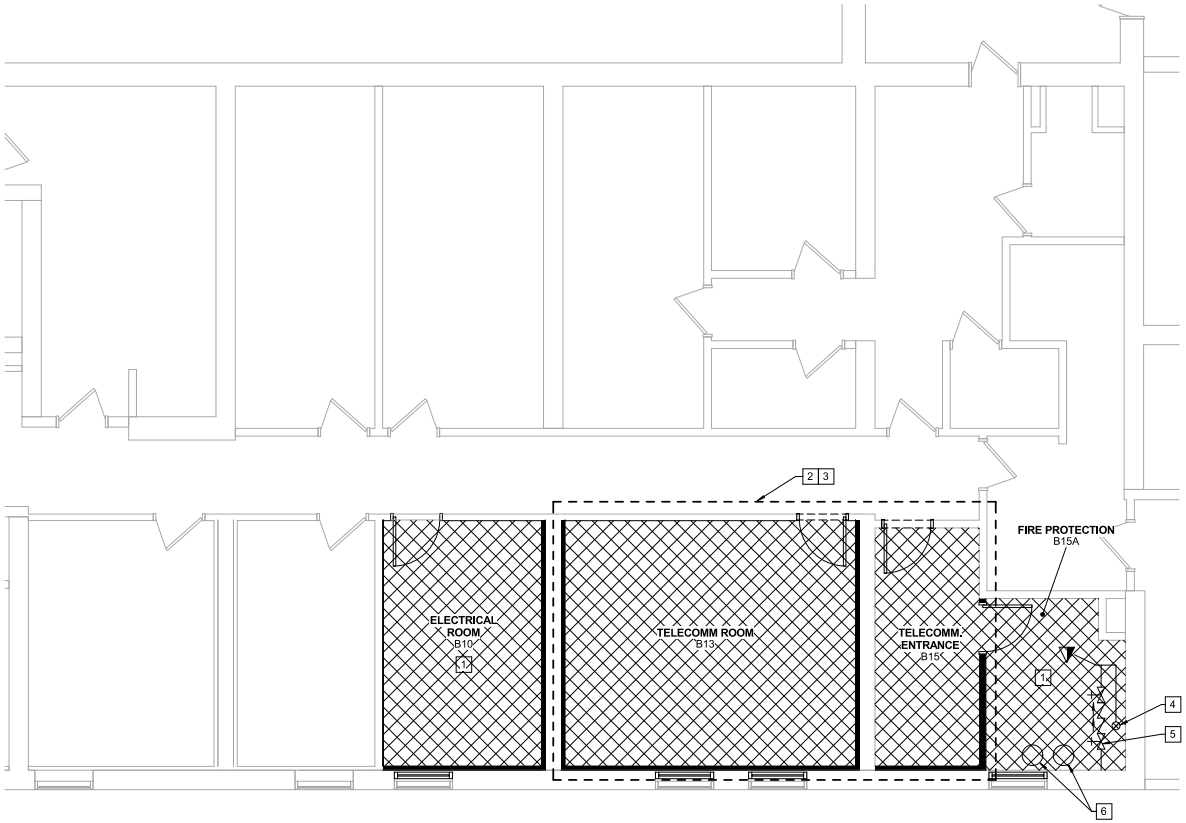
1. REFER TO FX001 FOR GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND SYMBOLS.

KEYED NOTES:

1. MODIFY EXISTING WET-PIPE SPRINKELRS IN THIS AREA, SPRINKLER HAZARD CLASSIFICATION SHALL BE ORDINARY HAZARD (FM HC-2).
2. PROVIDE SINGLE-INTERLOCK PRE-ACTION SPRINKLER SYSTEM IN THIS AREA. ALL SPRINKLER PIPING NOT PROTECTING THESE AREAS SHALL BE RELOCATED OUTSIDE OF THESE AREAS.
3. PROVIDE GASEOUS CLEAN AGENT SUPPRESSION SYSTEM IN THESE AREAS.
4. EXISTING ALARM CHECK VALVE/WET-PIPE SYSTEM RISER
5. EXISTING BACKFLOW PREVENTER
6. CLEAN AGENT STORAGE CYLINDERS

FIRE HAZARD CLASSIFICATION LEGEND:

FM HC-2 - 0.2 GPM OVER 2500 SQ FT.

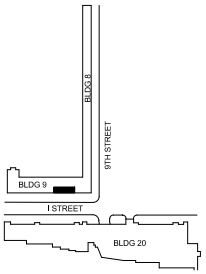


PLAN NORTH

BASEMENT FIRE SUPPRESSION PLAN

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

KEY PLAN:



GRAPHIC SCALE:

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

DATE	DESCRIPTION	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
6/23/16
PROFESSIONAL ENGINEER
SEAL

Wiley | Wilson | BURNS McDONNELL
JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC / ELL.T.

ACTIVITY:
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	EJS	DRW	DRR	CHK	WRM

PROJECT MANAGER JHEBLER
PT TECH. BRANCH HEAD JBLUMENKRANTZ
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9TH ST SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

BASEMENT FIRE SUPPRESSION PLAN

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079235
SHEET 20 OF 47

FX101

DRAW/FORM REVISION: 12 MAY 2014

UNCLASSIFIED

FILE NAME: C:\Revit_Projects\NAVFAC_WASH\B925\Models\MEP\B925_F_ejshelton.rvt

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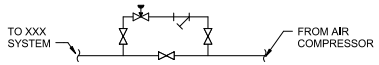
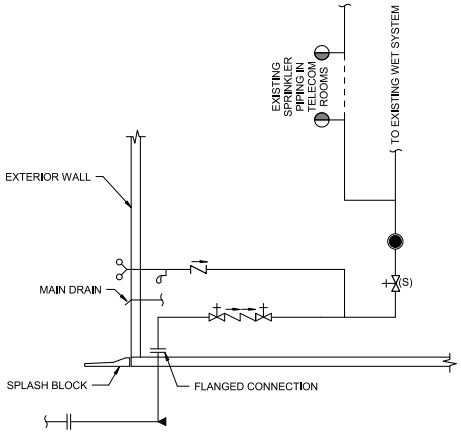


C4 AIR MAINTENANCE DEVICE
SCALE: NOT TO SCALE



A4 WET RISER DETAIL
SCALE: NOT TO SCALE

DATE	DESCRIPTION	APPR

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COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
6/23/16
PROFESSIONAL ENGINEER
SEAL

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JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC / ELL.T.

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES	EJS	DRW	DRR	CHK	WRM

PROJECT MANAGER JHEBLER
PT TECH. BRANCH HEAD JBLUMENKRANTZ
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/DET NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON, DC
MARINE BARRACKS WASHINGTON 8TH ST SE, WASHINGTON, DC 20390
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
WASHINGTON, DC
FIRE SUPPRESSION ONE LINE DIAGRAM

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079236
SHEET 21 OF 47
FX601

DRAW/FORM REVISION: 12 MAY 2014

FILE NAME: C:\Revit_Projects\NAVFAC_WASH\89257\Models\MEP\89257_F_ejshelton.rvt
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MECHANICAL ABBREVIATIONS

(E)	EXISTING (EQUIPMENT, DUCT, PIPE, ETC.) TO REMAIN.
ACC	AIR COOLED CHILLER
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
ATC	AUTOMATIC TEMPERATURE CONTROL(S)
BEL	BELLMOUTH FITTING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEAN OUT
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES
DI	DIGITAL INPUT
DIA	DIAMETER
DN	DOWN
DO	DIGITAL OUTPUT
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EL OR ELEV	ELEVATION
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F OR ºF	DEGREES FARENHEIT
FCU	FAN COIL UNIT
FT	FOOT OR FEET
GAL	GALLON (U.S.)
GPM	GALLONS PER MINUTE
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
OA	OUTSIDE AIR
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RLF	RELIEF AIR
SA	SUPPLY AIR
TB	TERMINAL BOX
TSTAT	THERMSOSTAT
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB

HVAC LEGEND

SENSORS

(T) THERMOSTAT

MECHANICAL PIPING LEGEND

EXISTING TO REMAIN
DEMOLITION WORK
NEW WORK
POINT OF CONNECTION
POINT OF DISCONNECT

PIPING SYSTEMS

CD — PIPE SYSTEM - CONDENSATE DRAIN

PIPE ACCESSORIES & FITTINGS

PIPE TURN UP
PIPE TURN DOWN
PIPE CONCENTRIC REDUCER

MECHANICAL GENERAL NOTES

INTENT
1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE THE GENERAL AND APPROXIMATE LOCATION OF EQUIPMENT, PIPING AND DUCTWORK. THEY ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS.
2. REFER TO EACH DRAWING FOR NOTES SPECIFIC TO THAT DRAWING SHEET.
3. DO NOT SCALE FOR DUCT, PIPE ORE EQUIPMENT LOCATIONS.

WORK SAFETY AND QUALITY
1. ALL MISCELLANEOUS MATERIAL REQUIRED TO ENSURE PROPER INSTALLATION AND IS SHOWN IN DETAILS FOR PIPING AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
2. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN A MANNER WHICH MINIMIZES NOISE AND VIBRATION.

COORDINATION WITH OTHER TRADES
1. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF WORK WITH THE WORK OF OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID CONFLICTS.
2. COORDINATE PIPING WITH ELECTRICAL, STRUCTURE, AND PLUMBING. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
3. COORDINATE MECHANICAL EQUIPMENT AND MATERIAL LOCATIONS WITH ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL PLANS TO AVOID CONFLICTS.
4. COORDINATE THE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH DIVISION 26 (ELECTRICAL CONTRACT DOCUMENTS) PRIOR TO ORDERING. PROVIDE WRITTEN VERIFICATION OF COORDINATION WITH DIVISION 26 PRIOR TO INSTALLATION OF EQUIPMENT.
5. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL LOUVERS, VENTS, DUCTS, AND PIPING THAT PENETRATE EXTERIOR WALLS.
6. PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF PIPING AND DUCTWORK. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL.

PIPING
1. SLOPE CONDENSATE DRAINS AT 1/8 INCHES FALL PER FOOT MINIMUM IN THE DIRECTION OF FLOW.
2. ALL PIPING SHALL BE SLEEVED THROUGH WALL PENETRATIONS.
3. SIZE AND ROUTE REFRIGERANT PIPING PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

EQUIPMENT
1. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
2. ALL MECHANICAL EQUIPMENT MUST BE INSTALLED IN SUCH A MANNER SO THAT ALL FILTERS, VALVES, MOTORS, ETC., ARE COMPLETELY ACCESSIBLE AND SERVICEABLE, INCLUDING ACCESS DOORS IF REQUIRED.
3. COMPLETE AND PROPER INSTALLATION OF THERMOSTATS AND ALL OTHER NECESSARY FIELD MOUNTED CONTROL COMPONENTS MUST BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. THE EQUIPMENT MANUFACTURERS MUST FURNISH COMPLETE WIRING CONTROLS. ALL CONTROL WIRING SHALL BE IN CONDUIT AND INSTALLED PER DIVISION 26 OF THE SPECIFICATIONS.

CONTROLS
1. PROVIDE THERMOSTATS WHERE SHOWN ON THE DRAWINGS. MOUNT DEVICES AT THE SAME ELEVATION AS LIGHT SWITCH UNLESS NOTED OTHERWISE.

RENOVATION WORK
1. THIS PROJECT IS A RENOVATION OF AN EXISTING FACILITY, AND PREVIOUS RECORD DRAWINGS FORM THE BASIS FOR MANY OF THESE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR PURCHASE OF EQUIPMENT, MATERIALS, AND ASSEMBLIES. THERE MAY EXIST FIELD CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THESE DRAWINGS. ANY SUCH DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF OWNER FOR RESOLUTION BEFORE PROCEEDING WITH ANY CONSTRUCTION, FABRICATION, OR MATERIAL/EQUIPMENT PURCHASE WHICH WOULD BE UNUSABLE UNDER THOSE CIRCUMSTANCES.

DWG	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
IOANNIS VASOURAS
Lic. No. 035863
6-28-2016
PROFESSIONAL ENGINEER
SEAL

Vitetta/Weston | BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC BLTL

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES: IM	DRW: SWL	CHK: IM

PROJECT MANAGER JHEISLER
PT TECH. BRANCH HEAD JBLUMENKRATZ
CHIEF ENG/ARCH JBLUMENKRATZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
PWD/PPT 1314 SE STREET, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

MECHANICAL LEGEND AND ABBREVIATIONS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079237
SHEET 22 OF 47
M-001

DRAW/FORM REVISION: 10 MAY 2014

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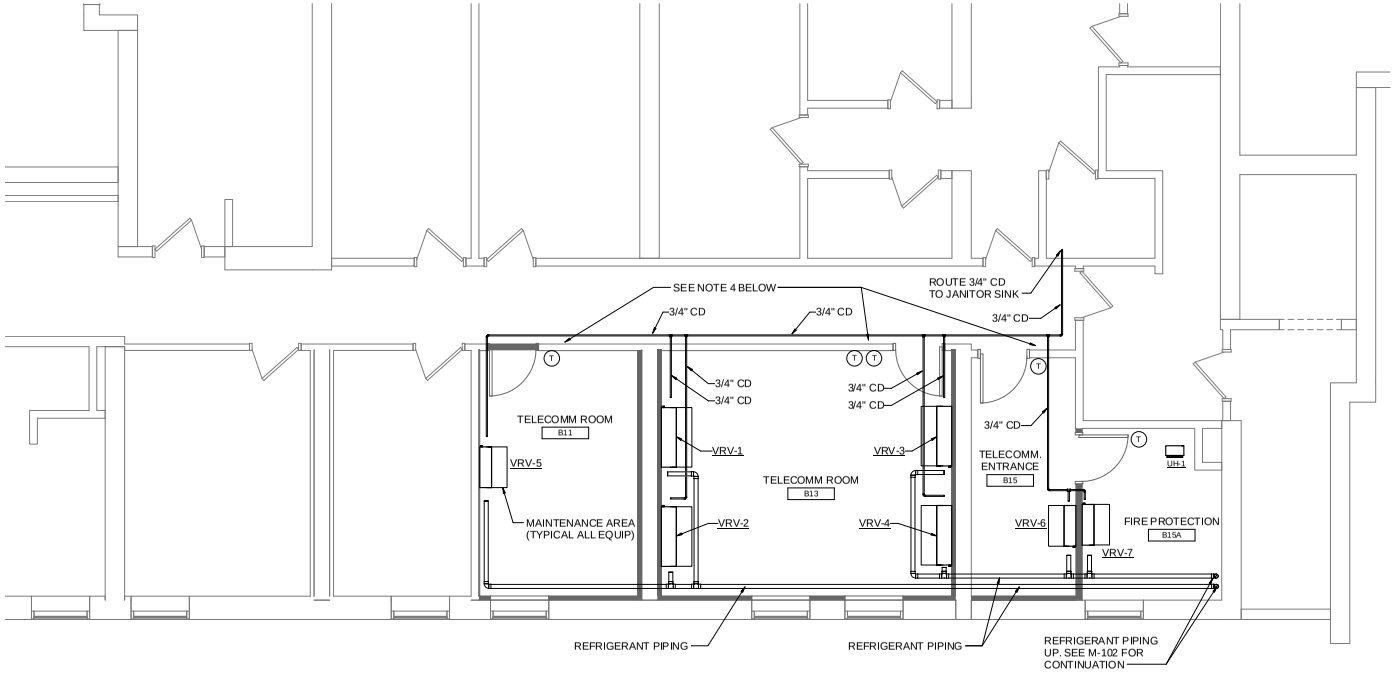


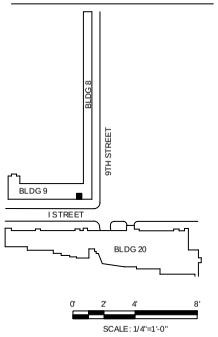
PLAN NORTH

1 MECHANICAL NEW WORK PLAN - LEVEL B1

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

NOTE:
1. MOUNT INDOOR UNITS APPROXIMATELY 7' AFF TO TOP OF UNIT.
2. PROVIDE COMMON THERMOSTAT FOR VRV-1 AND VRV-2 AND ANOTHER FOR VRV-3 AND VRV-4.
3. PROVIDE SLEEVES PER DETAIL ON M-701 FOR PIPING PENTRATING RF BOUNDARY. RF BOUNDARY CONSISTS OF B11, B13, AND B15. SEE ARCHITECTURAL FOR FURTHER RF BOUNDARY DETAILS. ALL PIPING PENETRATING RF BOUNDARY WILL BE GROUNDED, SEE ELEC FOR DETAILS.
4. PROVIDE TEMPERATURE ALARM SYSTEMS FOR ADJACENT ROOMS IN LOCATIONS SHOWN. TEMPERATURE ALARM SYSTEM IS MODULARM MODEL 75 OR EQUAL. HIGH TEMPERATURE ALARM SETPOINT TO BE SET AT 80 DEGREES F AND LOW TEMPERATURE ALARM SETPOINT TO BE SET AT 65 DEGREES F. ADJUST TIME DELAY TO 20 MINUTES.

KEY PLAN:



SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
IOANNIS VASOURAS
Lic. No. 035863
6-28-2016
PROFESSIONAL ENGINEER
SEAL

Vollmer/Weisser | BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC BLTL

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES: IM	DRW: SWL	CH: IM

PROJECT MANAGER JHEISLER
IPT TECH. BRANCH HEAD JBLUMENKRANTZ
CHIEF ENG/ARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/IPT NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
9TH ST. SE WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

MECHANICAL LEVEL B1 FLOOR PLAN

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079238
SHEET 23 OF 47
M-101

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Users\jmasouras\Documents\21526\2014_M_Cen_jmasouras.rvt
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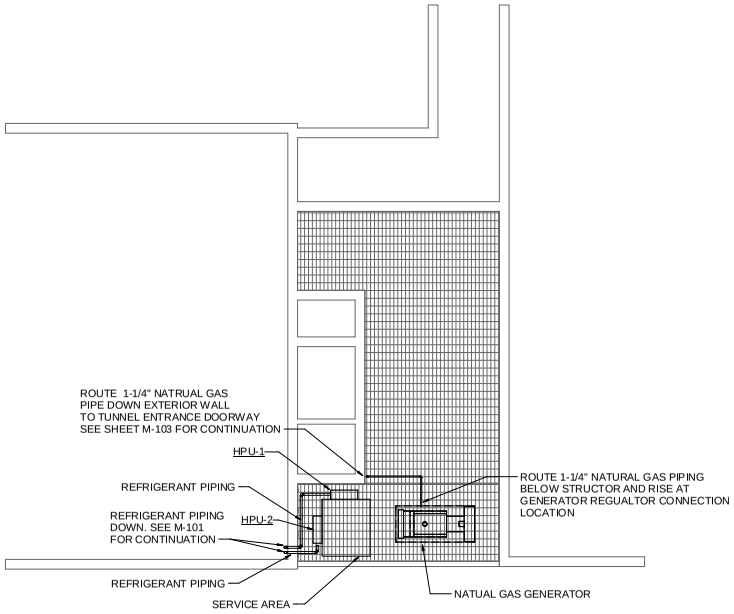
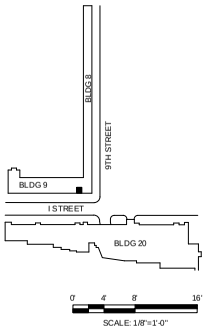


PLAN NORTH

1 MECHANICAL NEW WORK - LEVEL 2

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

KEY PLAN:



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

							APPR.
							DATE
							DESCRIPTION
							ZONE

NAVFAC

COMMONWEALTH OF VIRGINIA
IOANNIS VASOURAS
Lic. No. 035863
6-28-2016
PROFESSIONAL ENGINEER
SEAL

Mistry/Weiss | BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC BLT L

ACTIVITY:
NAVFAC WASHINGTON

SATISFACTORY TO DATE	30 JUNE 2016		
DES: IM	DRW: SWL	CH: IM	
PROJECT MANAGER	J HEISLER		
IPT TECH. BRANCH HEAD	JBLUMENKRATZ		
CHIEF ENG/ARCH	JBLUMENKRATZ		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
PWD/IPT: 9TH ST SE WASHINGTON, DC 20390

MARINE BARRACKS WASHINGTON
WASHINGTON, DC

MBW 8 & 9 RELOCATION OF
COMMUNICATIONS HUB

MECHANICAL LEVEL 2 FLOOR PLAN

SCALE:	AS NOTED
EPROJECT NO.	1321174
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	13079239
SHEET	24 OF 47

M-102

DRAW/FORM REVISION: 10 MAY 2014

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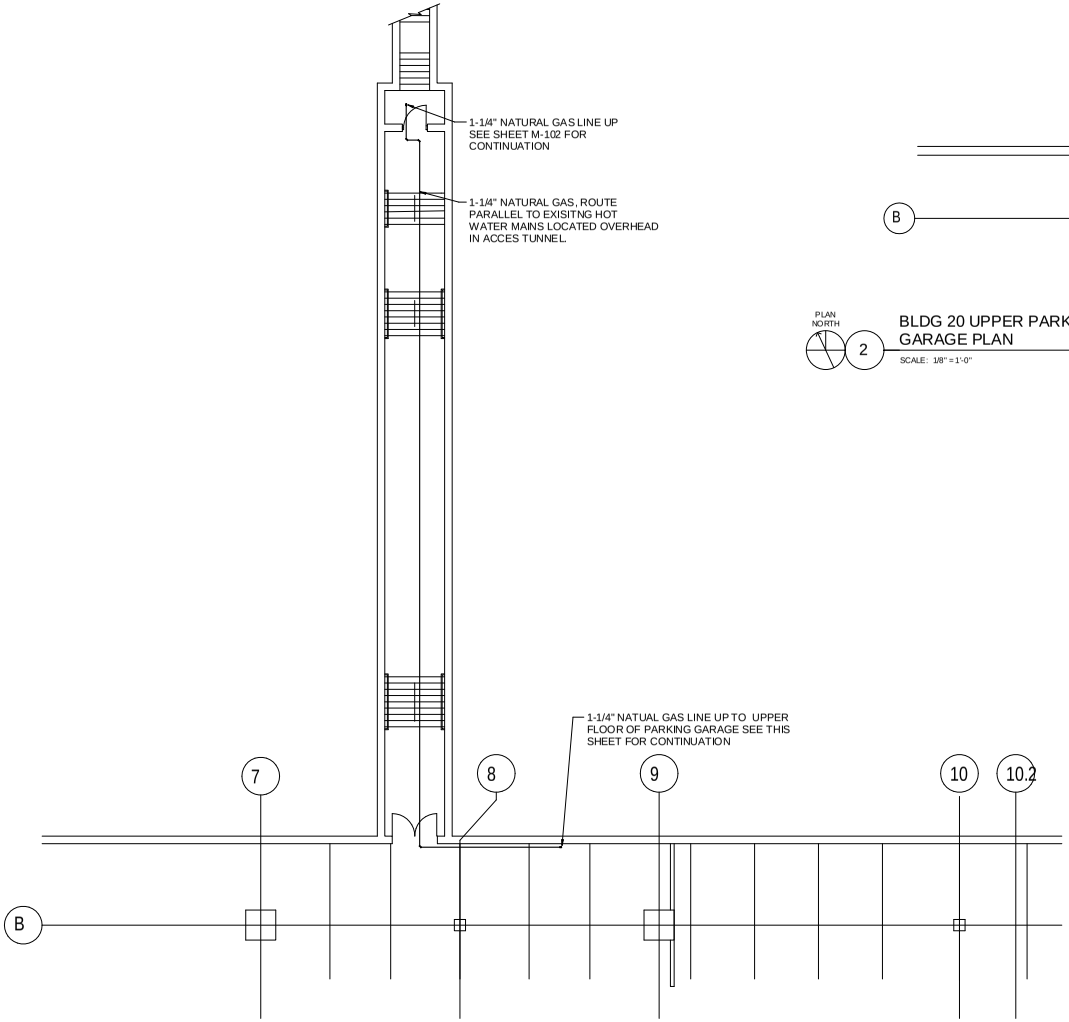
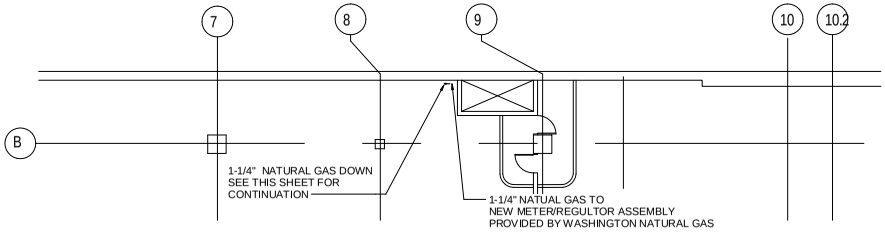


PLAN NORTH

1

BLDG 20 LOWER PARKING ACCESS STAIR/TUNNEL AND PARKING GARAGE PLAN

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



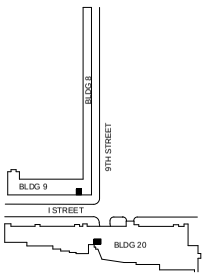
PLAN NORTH

2

BLDG 20 UPPER PARKING ACCESS STAIR/TUNNEL AND PARKING GARAGE PLAN

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

KEY PLAN:



0' 2' 4' 8'

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

NO.	DESCRIPTION	DATE	APPR.

NAVFAC

COMMONWEALTH OF VIRGINIA
IOANNIS VASOURAS
Lic. No. 035863
6-28-2016
PROFESSIONAL ENGINEER
SEAL

Kitchell/Webcor | BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED:

FOR COMMANDER NAVFAC BLT L

ACTIVITY:

NAVFAC WASHINGTON

SATISFACTORY TO DATE: 30 JUNE 2016

DES: IM	DRW: IM	CHK: IM

PROJECT MANAGER: J HESELER

IPT TECH. BRANCH HEAD: JBLUMENKRATZ

CHIEF ENG/ARCH: JBLUMENKRATZ

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PWD/IPT: 9TH ST. SE, WASHINGTON, DC 20390
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WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

ACCESS STAIR/TUNNEL AND PARKING GARAGE PLAN

SCALE: AS NOTED

EPROJECT NO. 1321174

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 13079240

SHEET 25 OF 47

M-103

DRAW/FORM REVISION: 10 MAY 2014

FILE NAME: C:\Users\jmasours\Documents\2015\26\2014_M_Cen_jmasours.rvt

REV/DATE: 6/24/2016 2:09:23 PM

VARIABLE REFRIGERANT VOLUME SYSTEM INDOOR UNIT SCHEDULE

DESIGNATION	VRV-1	VRV-2	VRV-3	VRV-4	VRV-5	VRV-6	VRV-7
LOCATION	ROOM B13	ROOM B13	ROOM B13	ROOM B13	ROOM B11	ROOM B15	ROOM B15A
TYPE	WALL MOUNTED DUCTLESS	WALL MOUNTED DUCTLESS	WALL MOUNTED DUCTLESS	WALL MOUNTED DUCTLESS	WALL MOUNTED DUCTLESS	WALL MOUNTED DUCTLESS	WALL MOUNTED DUCTLESS
EVAPORATOR DATA	- -	- -	- -	- -	- -	- -	- -
FAN AIR FLOW (CFM)	920	920	920	920	370	370	370
EXT. S.P. (IN.-H2O)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOMINAL TOTAL COOLING CAPACITY (BTU/HR)	30,000	30,000	30,000	30,000	8,000	8,000	8,000
NOMINAL HEATING CAPACITY (BTU/HR)	34,000	34,000	34,000	34,000	9,000	9,000	9,000
ELECTRICAL DATA	- -	- -	- -	- -	- -	- -	- -
MCA (AMPS)	0.5	0.5	0.5	0.5	0.3	0.3	0.3
VOLTS	208	208	208	208	208	208	208
PHASE	1	1	1	1	1	1	1
HERTZ	60	60	60	60	60	60	60
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
REMARKS	1	1	1	1	1	1	1
REMARKS LEGEND:							
1. SEE CONDENSATE PUMP SCHEDULE FOR THE ASSOCATED CONDENSATE PUMP.							

VARIABLE REFRIGERANT VOLUME HEAT PUMP UNIT SCHEDULE

DESIGNATION	HPU-1	HPU-2
TYPE	HEAT PUMP	HEAT PUMP
TOTAL NOMINAL COOLING CAPACITY (BTU/HR)	48,000	48,000
TOTAL NOMINAL HEATING CAPACITY (BTU/HR)	54,000	54,000
MINIMUM COOLING TURNDOWN CAPACITY (BTU/HR)	6,000	6,000
AMBIENT SUMMER DESIGN TEMPERATURE (DEG F)	95	95
AMBIENT WINTER DESIGN TEMPERATURE (DEG F)	21	21
MINIMUM ENERGY EFFICIENCY RATIO (EER)	12.0	11.8
MINIMUM HEATING COP AT 47 DEG F	3.75	3.75
VOLTAGE (V)	208	208
PHASE	1	1
FREQUENCY (Hz)	60	60
MAXIMUM CIRCUIT BREAKER (A)	40	40
MINIMUM CIRCUIT AMPACITY (MCA)	37.0	37.0
REFRIGERANT	R-410A	R-410A
REMARKS	1	1
REMARKS LEGEND:		
1. PROVIDE LOW AMBIENT OPERATION DOWN TO 5 DEG F AND WIND/HAIL GUARDS		

PIPE CONSTRUCTION AND INSULATION SCHEDULE

SERVICE	CONFIGURATION	SIZE	INSULATION	PIPE MATERIAL
CONDENSATE PIPING	ALL	ALL	ELASTOMERIC	TYPE L COPPER
REFRIGERANT SUCTION PIPING	ALL	ALL	ELASTOMERIC	COPPER

INDOOR DESIGN CONDITIONS

SPACE TYPE	INDOOR TEMPERATURE DESIGN CONDITIONS - SUMMER (DEG F)	INDOOR MAXIMUM DEW POINT DESIGN CONDITIONS - SUMMER (%)	INDOOR TEMPERATURE DESIGN CONDITIONS - WINTER (DEG F)
COMMUNICATIONS ROOMS	76	55	76
ELEC AND FIRE PROTECTION	75	55	68
REMARKS LEGEND:			

OUTDOOR DESIGN CONDITIONS

TYPE	OUTDOOR TEMPERATURE DESIGN CONDITIONS - SUMMER (DEG F)	OUTDOOR WET BULB DESIGN CONDITIONS - SUMMER (DEG F)	OUTDOOR TEMPERATURE DESIGN CONDITIONS - WINTER (DEG F)
LOAD CALCULATIONS DB/MCWB	94	77	15

CONDENSATE PUMP SCHEDULE

DESIGNATION	CDP-1	CDP-2	CDP-3	CDP-4	CDP-5	CDP-6	CDP-7
LOCATION	ROOM B13	ROOM B13	ROOM B13	ROOM B13	ROOM B11	ROOM B15	ROOM B15A
TYPE	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
PUMP CAPACITY - GPH	2	2	2	2	2	2	2
PUMP HEAD (FT-H2O)	2	2	2	2	2	2	2
DISHCHARGE DIA (IN)	5/32	5/32	5/32	5/32	5/32	5/32	5/32
MOTOR POWER (WATTS)	19	19	19	19	19	19	19
VOLTAGE	115	115	115	115	115	115	115
PHASE	1	1	1	1	1	1	1
FREQUENCY (Hz)	60	60	60	60	60	60	60
AMPS	0.24	0.24	0.24	0.24	0.24	0.24	0.24
ASSOCIATED INDOOR UNIT	VRV-1	VRV-2	VRV-3	VRV-4	VRV-5	VRV-6	VRV-7
REMARKS:	1	1	1	1	1	1	1
REMARKS LEGEND:							
1. PROVIDE AUTOMATIC PUMP OPERATION CONTROLLED BY A REMOTE COLLECTION RESEVOIR CONTAINING A 3-STEP FLOAT/MAGNET REED SWITCH DESING FOR ON/OFF AND SAFETY OVERFLOW. RESEVOIR SIZE IS APPROXIMATELY 3.25"x1.5"x1.4".							

UNIT HEATER SCHEDULE

DESIGNATION		UH-1
LOCATION		B-15A
AIRFLOW (CFM)		310
ELECTRIC COIL	MINIMUM CAPACITY (KW)	3
	ENTERING AIR TEMPERATURE (DEG F)	55
	LEAVING AIR TEMPERATURE (DEG F)	85.45
ELECTRICAL DATA	UNIT VOLTAGE (V)	277
	PHASE	1
	FREQUENCY (HZ)	60
REMARKS		1 & 2
REMARKS LEGEND:		
1. PROVIDE UNIT MOUNTED THERMOSTAT.		
2. PROVIDE INTEGRAL DISCONNECT.		

NO	DESCRIPTION	DATE	APPR

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COMMONWEALTH OF VIRGINIA
IOANNIS VASOURAS
Lic. No. 035863
6-28-2016
PROFESSIONAL ENGINEER
SEAL

Kitchen/Whitman | BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC BLT L

ACTIVITY:
NAVFAC WASHINGTON

SATISFACTORY TO DATE: 30 JUNE 2016

DES: IM	DRW: SWL	CHK: IM

PROJECT MANAGER: J HESSLER
IPT TECH. BRANCH HEAD: JBLUMENKRATZ
CHIEF ENG/ARCH: JBLUMENKRATZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
PWD/IPT: 6TH ST. SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
SCHEDULES AND CONTROLS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079241
SHEET 26 OF 47
M-601

DRAW/FORM REVISION: 10 MAY 2014

FILE NAME: C:\Users\jmasouras\Documents\21526\2014_M_Cen_jmasouras.rvt
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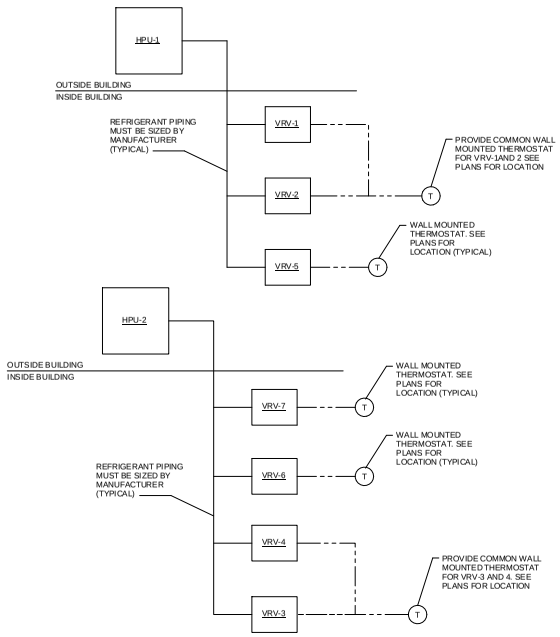


VRF REFRIGERANT RISER DIAGRAM

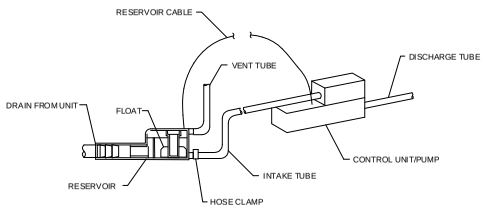
NOT TO SCALE

SEQUENCE OF OPERATION:

THE VARIABLE REFRIGERANT FLOW SYSTEM SHALL CONTROL SPACE TEMPERATURES VIA THE FACTORY PROVIDED ROOM THERMOSTATS AND CONTROLLERS. FACTORY PROVIDED THERMOSTAT SHALL PROVIDE AT MINIMUM FOLLOWING DISPLAY AND CONTROL FUNCTIONALITY:
FAN AUTO/ON CONTROL, SPACE TEMPERATURE SETPOINT, SPACE TEMPERATURE, SYSTEM OPERATION MODE (COOL/HEAT/OFF), OPERATION SCHEDULE (CONTINOUS OPERATION), COMMON SYSTEM ALARM.

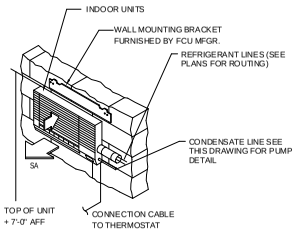
UNIT HEATER SEQUENCE OF OPERATION

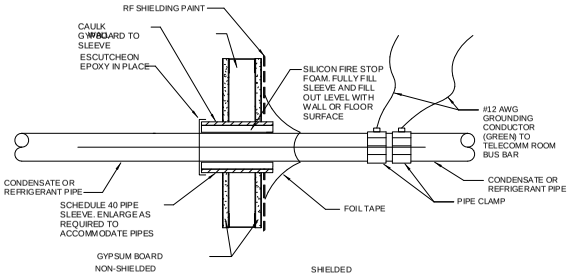
UNIT HEATER UH-1 SHALL MAINTAIN A MINIMUM OF 55 DEGREES IN THE SPACE AT ALL TIME BASED ON THE UNITS MOUNTED THERMOSTAT.



CONDENSATE PUMP DETAIL

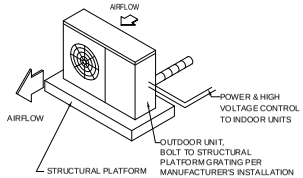
NOT TO SCALE





SHIELDED WALL PENETRATION DETAIL

NOT TO SCALE



DUCTLESS EVAPORATOR AND CONDENSING UNITS

NOT TO SCALE

NO.	DESCRIPTION	DATE	APPR.

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6-28-2016
PROFESSIONAL ENGINEER
SEAL

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JOINT VENTURE

A/E INFO

APPROVED:
FOR COMMANDER NAVFAC BLTL

ACTIVITY:
NAVFAC WASHINGTON

SATISFACTORY TO/ATE: 30 JUNE 2016

DES Designer	DRW IM	CHK Checker
PROJECT MANAGER	JHEISLER	
IPT TECH. BRANCH HEAD	JBLUMENKRATZ	
CHIEF ENG/ARCH	JBLUMENKRATZ	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
PWD/IPT 1314 SE WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
CONTROLS AND DETAILS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079242
SHEET 27 OF 47
M-701

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Users\jmasouras\Documents\21526\2014_M_Cen_jmasouras.rvt
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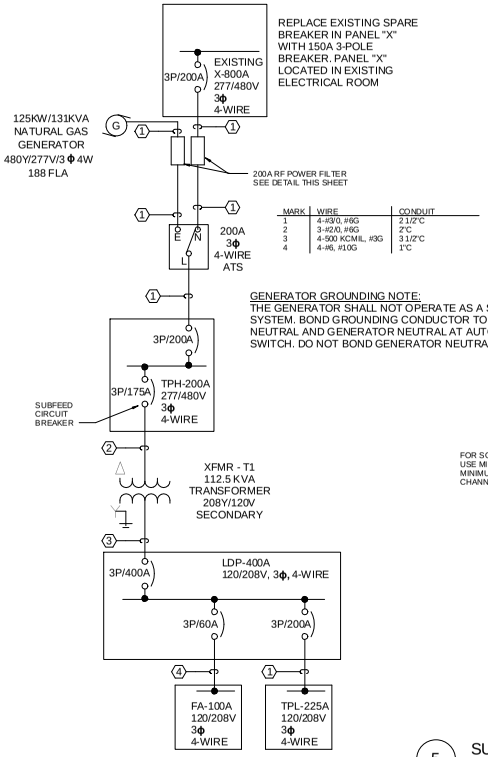
ELECTRICAL LEGEND

- CONDUIT OR MC CABLE RUN CONCEALED. WITH PHASE, NEUTRAL AND GROUND CONDUCTOR UNLESS NOTED OTHERWISE. PROVIDE 2,3 OR 4 WAY SWITCH LEG CONDUCTORS PER SWITCH TYPE INDICATED ON PLAN. TIC MARKS INDICATE MORE THEN 3 WIRES. PROVIDE 3#12 IN 3/4"C UNO.
- HOMERUN RUN CONCEALED. PROVIDE 3#12 IN 3/4"C UNO.
- SURFACE MOUNT BRANCH CIRCUIT PANELBOARD. SIZE AND DESCRIPTION AS SCHEDULED. TOP: +6'-0" AFF.
- 120 VOLT, 20 AMP, 3-WIRE, NEMA 5-20 DUPLEX RECEPTACLE. MOUNTING HEIGHT: +18" AFF UNO.
- 120 VOLT, 20 AMP, 3-WIRE, NEMA 5-20 QUADRAPLEX RECEPTACLE. MOUNTING HEIGHT: +18" AFF UNO.
- T — DRY TYPE POWER TRANSFORMER OF SIZE INDICATED ON PLANS.
- 4' LONG, ENCLOSED LED LIGHTING FIXTURE OF TYPE INDICATED. PENDANT MOUNTED AS INDICATED COORDINATE EXACT LOCATION WITH MECHANICAL AND ELECTRICAL EQUIPMENT.
- $ — SINGLE POLE, 20 AMP, 120/277 VOLT WALL SWITCH. MOUNTING HEIGHT: CENTER +48" AFF.

ELECTRICAL ABBREVIATIONS

A	AMPERES
AF	AMPERE FRAME OR AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AS	AMPERE SWITCH
AT	AMPERE TRIP OR AIR TERMINAL
AWG	AMERICAN WIRE GUAGE
C	CONDUIT
CKT	CIRCUIT
COMM	COMMUNICATIONS
CT	CABLE TRAY
DISC SW	DISCONNECT SWITCH
DPDB	DATA PUNCH DOWN BLOCK
E OR EXIST.	EXISTING
EA	EACH
EM	EMERGENCY
F0	FIBER OPTIC CABLE
FOTB	FIBER OPTIC TERMINAL BLOCK
G	GROUND
GFI	GROUND FAULT INTERRUPTING
JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LAN	LOCAL AREA NETWORK
LED	LIGHT EMITTING DIODE
M	MAIN OR METER
MB	MAIN CIRCUIT BREAKER
MH	MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NETA	INTERNATIONAL ELECTRICAL TESTING ASSOCIATION
NF	NON-FUSED
OS	OCCUPANCY SENSOR
P	POLE OR PRIMARY
PET	PROTECTED ENTRANCE TERMINAL
PH	PHASE
PNL	PANEL
PWR	POWER
RCPT	RECEPTACLE
SC	SHORT CIRCUIT
SCC	SHORT CIRCUIT CURRENT
SHT	SHEET
SW	SWITCH
SYM	SYMMETRICAL
TP	COMMUNICATION PANEL
TR	COMMUNICATIONS ROOM
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
W	WIRE OR WATT
XFMR OR T	TRANSFORMER
Y	WYE CONNECTED
YDCT	WYE DELTA CLOSED TRANSITION

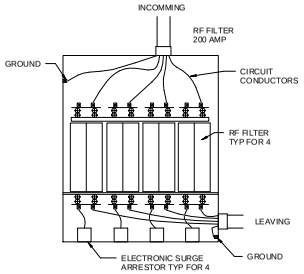


MARK	WIRE	CONDUIT
1	4-#3/0, #6G	2 1/2"C
2	3-#2/0, #6G	2"C
3	4-500 KCMIL, #3G	3 1/2"C
4	4-#6, #10G	1"C

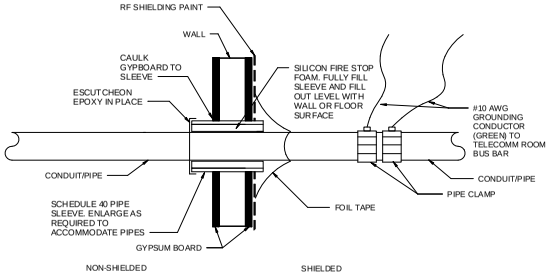
GENERATOR GROUNDING NOTE:
THE GENERATOR SHALL NOT OPERATE AS A SEPARATELY DERIVED SYSTEM. BOND GROUNDING CONDUCTOR TO GENERATOR FRAME AND BOND SYSTEM NEUTRAL AND GENERATOR NEUTRAL AT AUTOMATIC TRANSFER SWITCH. DO NOT BOND GENERATOR NEUTRAL TO GENERATOR FRAME.

* ALL PANELS, ATS, TRANSFORMERS AND GENERATORS ARE NEW TO BE PROVIDED BY THE CONTRACTOR UNO.

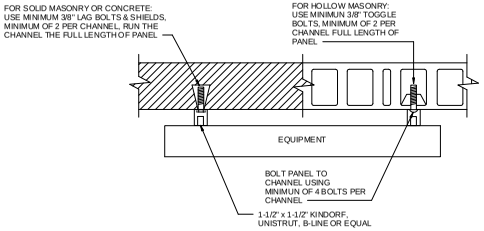
1 POWER ONE-LINE DIAGRAM
SCALE: NONE



4 RF POWER FILTER
SCALE: NONE



3 RF SHIELDED WALL PIPE PENETRATION
SCALE: NONE



Detail Note:
ALL SURFACE MOUNTED EQUIPMENT SHALL BE MOUNTED PER THIS DETAIL. BOLTS AND UNISTRUT SHALL BE PAINTED WITH RF SHIELDING PAINT PRIOR TO EQUIPMENT INSTALLATION

5 SURFACE EQUIPMENT MOUNTING DETAIL
SCALE: NONE

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	WATTAGE	INITAL LUMENS	VOLTAGE	COMMENTS
A	ENCLOSED LED PENDANT FIXTURE	LED	65 W	5400 lm	277 V	MOUNTING HEIGHT: BOTTOM 8'-0"
B	LED INDUSTRIAL TURRET	LED	22 W	2680 lm	277 V	MOUNTING HEIGHT: BOTTOM 8'-0"
X	EXIT SIGN	LED	10 W		277 V	MOUNT ABOVE DOOR LINTEL
Y	EMERGENCY LIGHTING	LED	1.9 W	49 lm	277 V	MOUNTING HEIGHT: BOTTOM 7'-0"

REV	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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Lic. No. 047903
6/28/2016
PROFESSIONAL ENGINEER
SEAL

Weaver/Williams | BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC LANT

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES BWY | DRW BWY | CHK JR
PROJECT MANAGER J-KESLER
IPT TECH. BRANCH HEAD JLUMENKRANTZ
CHIEF ENG/ARCH JLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/IPT NAVAL FACILITIES ENGINEERING COMMAND WASHINGTON
9TH ST SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
LEGEND AND ABBREVIATIONS

SCALE AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 1307943
SHEET 28 OF 47
E-001

DRAW FORM REVISION: 10 MAY 2014

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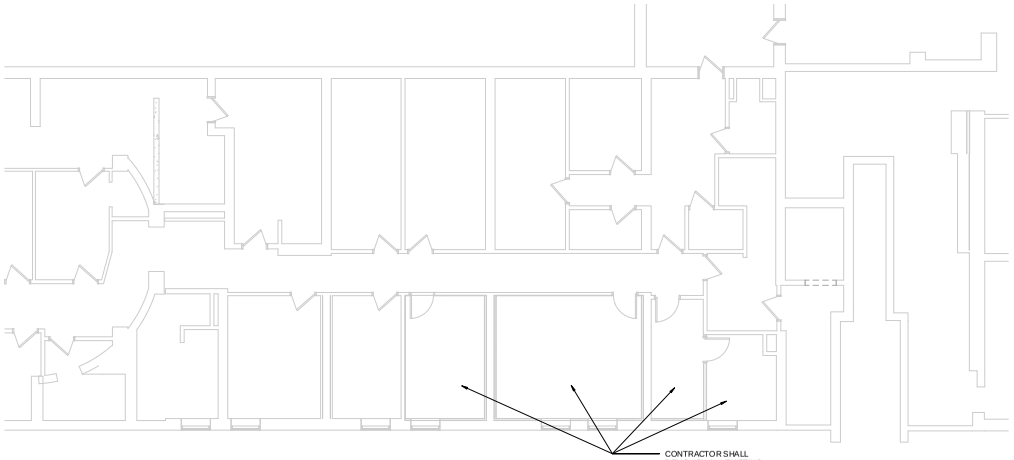


CONTRACTOR SHALL ENSURE AREAS NOT TO BE DEMOLISHED SHALL REMAIN OPERATIONAL. CONTRACTOR SHALL SPLICE AND EXTEND EXISTING CIRCUITS AS REQUIRED.

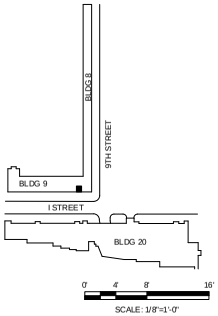
CONTRACTOR SHALL DEMOLISH ALL EXISTING LIGHTS, SWITCHES, AND RECPTACLES. CONTRACTOR SHALL REMOVE ALL CONDUIT AND WIRE BACK TO THE NEAREST JUNCTION BOX AND SAFE OFF WIRE. UPDATE THE PANEL SCHEDULE TO INDICATE DEMOLISHED CIRCUITS.

PLAN NORTH

1 LEVEL B1 DEMOLITION FLOOR PLAN

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

KEY PLAN:



CYM	DESCRIPTION	DATE	APPR

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COMMONWEALTH OF VIRGINIA
BRIAN W. YANNETTI
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6/28/2016
PROFESSIONAL ENGINEER
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A/E INFO

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FOR COMMANDER NAVFAC BLTL

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES: BWY | DRW: BWY | CHK: JR

PROJECT MANAGER: J HESLER

I/PT TECH. BRANCH HEAD: JBLUMENKRANTZ

CHIEF ENG/ARCH: JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/NPF: NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
8TH ST. S.E. WASHINGTON, DC 20390

MARINE BARRACKS WASHINGTON
WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

ELECTRICAL DEMOLITION PLAN

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 1307944
SHEET 29 OF 47

E-101

DRAW FORM REVISION: 10 MAY 2014

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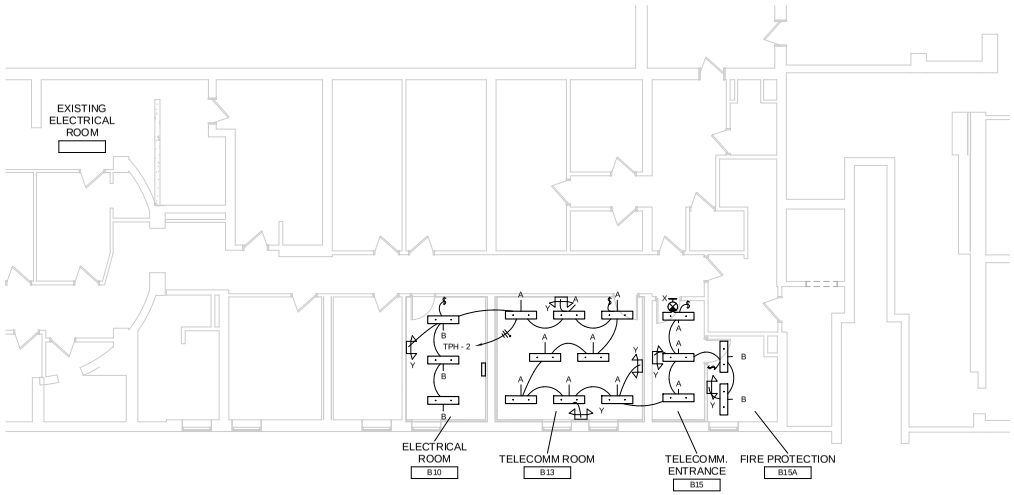


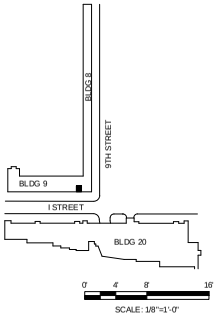
PLAN NORTH

1 LEVEL B1 NEW WORK LIGHTING FLOOR PLAN

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

CONDUIT RF RENETRATION NOTE:
PROVIDE SLEEVES PER DETAIL ON E-101 FOR CONDUIT PENTRATING RF BOUNDARY. RF BOUNDARY CONSISTS OF B11, B13, AND B15. SEE ARCHITECTURAL FOR FURTHER RF BOUNDARY DETAILS. ALL PIPING PENETRATING RF BOUNDARY WILL BE GROUNDED.

KEY PLAN:



CYM	DESCRIPTION	DATE	APPR

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COMMONWEALTH OF VIRGINIA
BRIAN W. YANNETTI
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6/28/2016
PROFESSIONAL ENGINEER
SEAL

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JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC BLTTL

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES: BWY | DRW: BWY | CHK: JR

PROJECT MANAGER: J HEISLER

I/PT TECH. BRANCH HEAD: JILUMENKRANTZ

CHIEF ENG/ARCH: JILUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
PWD/IPT
1314 8TH ST SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC

MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB

ELECTRICAL NEW WORK LIGHTING PLAN

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 1307945
SHEET 30 OF 47

E-102

DRAW FORM REVISION: 10 MAY 2014

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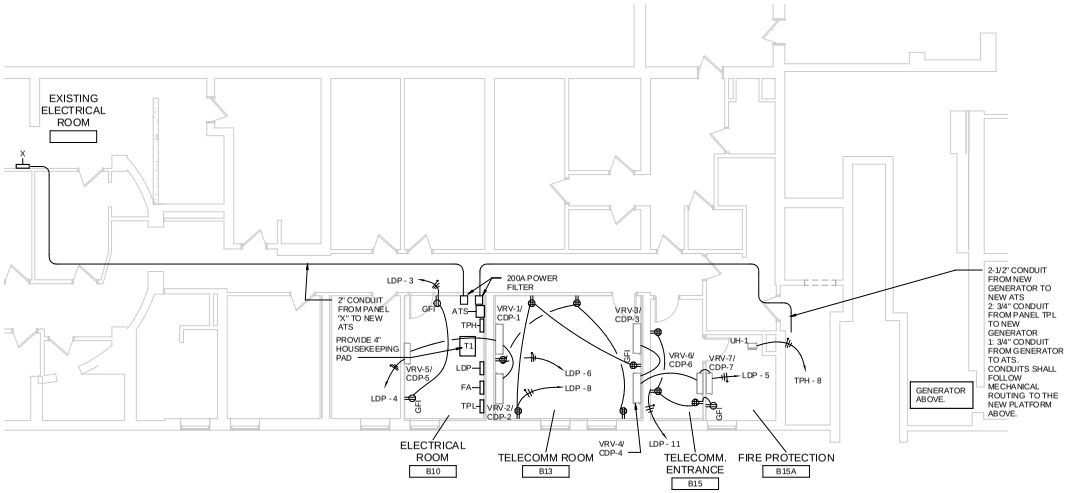


VRV DISCONNECT NOTE:
VRV INDOOR UNITS SHALL BE POWERED FROM ASSOSCIATED EXTERIOR HPU. PROVIDE 2#12, #12G IN 3/4"C BETWEEN VRV AND ASSOCIATED HPU. PROVIDE 2-POLE, 30A SAFETY SWITCHES AT EACH VRV UNIT.

CDP, UH & TF DISCONNECT NOTE:
PROVIDE 20A SINGLE POLE MOTOR PROTECTIVE SWITCH AT EACH CONDENSATE PUMP AND TRANSFER FAN..

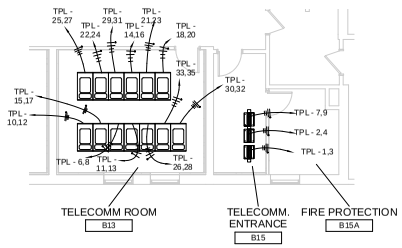
MECHANICAL SENSOR NOTE:
PROVIDE 20A, SINGLE PHASE, 120V CIRCUIT TO MECHANICAL SENSOR. SEE MECHAINCAL PLANS FOR EXACT LOCATIONS

CONDUIT RF RENETRATION NOTE:
PROVIDE SLEEVES PER DETAIL ON E-101 FOR CONDUIT PENTRATING RF BOUNDARY. RF BOUNDARY CONSISTS OF B11, B13, AND B15. SEE ARCHITECTURAL FOR FURTHER RF BOUNDARY DETAILS. ALL PIPING PENETRATING RF BOUNDARY WILL BE GROUNDED.

PLAN NORTH

1 LEVEL B1 NEW WORK POWER FLOOR PLAN

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

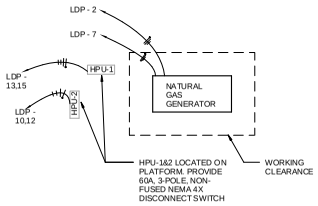


TELECOMM ROOM RACK NOTE:
CONTRACTOR SHALL PROVIDE A L6-30R TWIST LOCK RECEPTACLE AT THE TOP OF EACH TELECOMM RACK FOR RACK MOUNTED UPS UNITS.
SEE SHEET T-410 FOR DETAIL. TYPICAL FOR 13.

PLAN NORTH

3 LEVEL B1 NEW WORK TELECOMM RACK POWER PLAN

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

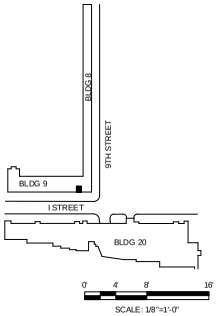


PLAN NORTH

2 LEVEL 2 NEW WORK POWER FLOOR PLAN

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

KEY PLAN:



REV	DESCRIPTION	DATE

NAVFAC

COMMONWEALTH OF VIRGINIA
BRIAN W. YANNETTI
Lic. No. 047903
6/28/2016
PROFESSIONAL ENGINEER
SEAL

Weaver/Williams BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED
FOR CDR WILDER NAVFAC ELTL

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES: BWY	DRW: BWY	CHK: JR

PROJECT MANAGER: J.HESLER
I/T TECH. BRANCH HEAD: JILLUMENKRANTZ
CHIEF ENG/ARCH: JILLUMENKRANTZ

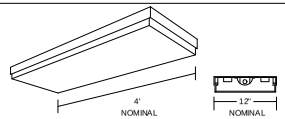
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/NFEC NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
9TH ST SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
ELECTRICAL NEW WORK POWER PLAN

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 1307946
SHEET 31 OF 47
E-103

DRAW FORM REVISION: 10 MAY 2014

FILE NAME: B:\Revit Projects\Revit 2014\21520\21514_E_CEN_Byannetti V0682.rvt
REV DATE: 6/23/2016 2:31:46 PM

TYPE A



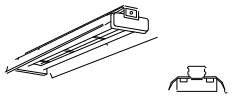
LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY. ENDCAPS SECURED WITH TABS, SCREWS OR RIVETS. FIXTURE SHALL NOT PERMANENTLY DEFORM OUT OF "SQUARE" WHEN PICKED UP FROM ANY CORNER.
2. FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
3. LENS - 100% ACRYLIC, CLEAR PRISMATIC. LENS SHALL BE ONE-PIECE INJECTION MOLDED, FULL 5-SIDED UNIT WITH LUMINOUS ENDS. PROVIDE SPRING-LOADED LATCHING SYSTEM TO SECURE LENS TO BASE HOUSING.
4. LAMPS - 3500K LED.
5. DRIVER - CLASS P, THERMALLY-PROTECTED, HIGH POWER FACTOR (>.95), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
6. CERTIFICATION - UL LISTED AND LABELED.

ENCLOSED LED - TELECOM AREAS

REVISED:	JANUARY 2016	LIGHTING PLATE:	NL-10

TYPE B



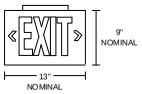
LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY. ENDCAPS SECURED WITH TABS, SCREWS OR RIVETS. FIXTURE SHALL NOT PERMANENTLY DEFORM OUT OF "SQUARE" WHEN PICKED UP FROM ANY CORNER.
2. FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
3. REFLECTOR - DIE-FORMED, COLD-ROLLED STEEL WITH TRANSVERSE RIBS FOR RIGIDITY. SOLID, 10% UPLIGHT APERATURE OR 20% UPLIGHT APERATURE AS INDICATED IN LIGHTING FIXTURE SCHEDULE.
4. LAMPS - 3500K LED.
5. DRIVER - CLASS P, THERMALLY-PROTECTED, HIGH POWER FACTOR (>.95), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
6. CERTIFICATION - UL LISTED AND LABELED.
7. OPTIONS - CHAIN HANGER AND PLATED STEEL WIRE GUARD.

LED INDUSTRIAL FLUORESCENT

REVISED:	AUGUST 2004	LIGHTING PLATE:	NL-13

TYPE X



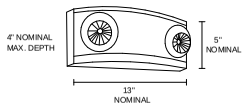
LUMINAIRE REQUIREMENTS:

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

LED EXIT SIGN

REVISED:	AUGUST 2004	LIGHTING PLATE:	NL-63

TYPE Y



LUMINAIRE REQUIREMENTS:

1. HOUSING - UV STABLE, FLAME-RATED, HIGH-IMPACT THERMOPLASTIC IN WHITE OR BLACK TEXTURED FINISH.
2. INTERNAL COMPONENTS - FULLY AUTOMATIC, SOLID STATE, CONSTANT VOLTAGE, CURRENT-LIMITED BATTERY CHARGER; MAINTENANCE-FREE LEAD-ACID BATTERY; AND BUILT-IN OVERLOAD AND LOW-VOLTAGE BATTERY PROTECTION.
3. EXTERIOR HOUSING INDICATORS - LED AC-ON INDICATOR AND INTEGRAL TEST SWITCH.
4. LAMP HEADS - UV STABLE, FLAME RATED POLYCARBONATE THERMOPLASTIC. LAMPS SHALL BE AS INDICATED IN LIGHTING FIXTURE SCHEDULE.
5. MOUNTING - DIRECTLY TO 4" OCTAGONAL OR SQUARE OUTLET BOX.
6. CERTIFICATION - UL LISTED AND LABELED. COMPLIES WITH UL 924 AND NFPA 101 REQUIREMENTS. LISTED FOR DAMP LOCATIONS.
7. OPTIONS - VOLTMETER, VANDEL-RESISTANT SHIELD, SELF-DIAGNOSTIC/TESTING ELECTRONICS AND WIRE GUARD.

EMERGENCY LIGHTING UNIT

REVISED:	AUGUST 2004	LIGHTING PLATE:	NL-67

REV#	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
BRIAN W. YANNETTI
Lic. No. 047903
6/28/2016
PROFESSIONAL ENGINEER
SEAL

Weaver/Williams | BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC BLTL

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES: BWY | DRW: BWY | CHK: JR
PROJECT MANAGER: J HESLER
I/T TECH. BRANCH HEAD: JLUMENKRANTZ
CHIEF ENG/ARCH: JLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/DIPT. NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
8TH ST. S.E. WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
DETAILS

SCALE: AS NOTED
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 1307947
SHEET 32 OF 47
E-500

DRAW FORM REVISION: 10 MAY 2014

FILE NAME: B:\Revit Projects\Revit 2014\21520\2014_E_CEN_Bynamett\ V0682.rvt
REVDATE: 6/23/2016 2:31:46 PM

BRANCH PANEL: X

LOCATION: EXISTING ELECTRICAL ROOM
SUPPLY FROM:
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: EXISTING
MAIN TYPE: MLO
MAIN RATING: 800 A
MCB RATING:

NOTES:
* INDICTAES EXISTING CIRCUIT TO REMAIN

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	WIRE & CONDUIT SIZE	A		B		C		WIRE & CONDUIT SIZE	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1					60 VA	2217...									2
3	*SURGE SUPPRESSOR	30 A	3	EXISTING			60 VA	2217...			EXISTING	3	100 A	*B1	4
5									60 VA	2217...					6
7					2217...	3827...									8
9	*P1	100 A	3	EXISTING			2217...	3443...			SEE ONE-LINE	3	200 A	NEW NORMAL POWER FEED FOR NEW TELECOMM ROOM ATS. MATCH AIC RATING TO EXISTIN...	10
11									2217...	3463...					12
13					3879...	4434...									14
15	*ELEVATOR	175 A	3	EXISTING			3879...	4434...			EXISTING	3	200 A	*B2	16
17									3879...	4434...					18
19					6651...										20
21	*P4*	300 A	3	EXISTING			6651...								22
23									6651...						24
				TOTALLOAD:	232326 VA		228480 VA		228687 VA						
				TOTAL AMPS:	839 A		825 A		826 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Elevator	116393 VA	100.00%	116393 VA		
Existing Load	465793 VA	70.00%	326027 VA	**TOTAL CONN. LOAD:**	689536 VA
HVAC	15392 VA	100.00%	15392 VA	**TOTAL EST. LOAD:**	534109 VA
Lighting	896 VA	125.00%	1120 VA	**TOTAL CONN.:**	829 A
Other	3047 VA	100.00%	3047 VA	**TOTAL EST. DEMAND:**	642 A
Receptacle	4655 VA	100.00%	4655 VA		
Equipment - Power	1000 VA	100.00%	1000 VA		
Telecomm Rack	63700 VA	75.00%	47775 VA		
Distribution Rack	14700 VA	100.00%	14700 VA		
FIRE ALARM	4000 VA	100.00%	4000 VA		

NOTES:
EXISTING CIRCUITS ASSUME 80 OF BREAKER SIZE AS THE CONNECTED LOAD. SIEMENS PANEL CATALOG NUMBER: P4E75ML800FTS.

BRANCH PANEL: TPH

LOCATION: ELECTRICAL ROOM B10
SUPPLY FROM: ATS
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22,000
MAIN TYPE: MCB
MAIN RATING: 200 A
MCB RATING: 200 A

NOTES:
BREAKER FOR CIRCUIT T1 SHALL BE A SUBFED CIRCUIT BREAKER

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	WIRE & CONDUIT SIZE	A		B		C		WIRE & CONDUIT SIZE	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1					3437...	896...					2#12,#12G,3/4"C	1	20 A	LIGHTING	2
3	T1	175 A	3	SEE ONE-LINE			3443...	0 VA				1	20 A	Spare	4
5									3463...	0 VA		1	20 A	Spare	6
7	Spare	20 A	1		0 VA	3047...					2#10,#10G,3/4"C	1	30 A	UH-1	8
9	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	10
11	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	12
13	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	14
15	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	16
17	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	18
19	Space	–	--	–	0 VA	0 VA					–	--	–	Space	20
21	Space	–	--	–			0 VA	0 VA			–	--	–	Space	22
23	Space	–	--	–					0 VA	0 VA	–	--	–	Space	24
25	Space	–	--	–	0 VA	0 VA					–	--	–	Space	26
27	Space	–	--	–			0 VA	0 VA			–	--	–	Space	28
29	Space	–	--	–					0 VA	0 VA	–	--	–	Space	30
31	Space	–	--	–	0 VA	0 VA					–	--	–	Space	32
33	Space	–	--	–			0 VA	0 VA			–	--	–	Space	34
35	Space	–	--	–					0 VA	0 VA	–	--	–	Space	36
37	Space	–	--	–	0 VA	0 VA					–	--	–	Space	38
39	Space	–	--	–			0 VA	0 VA			–	--	–	Space	40
41	Space	–	--	–					0 VA	0 VA	–	--	–	Space	42
				TOTALLOAD:	38321 VA		34431 VA		34638 VA						
				TOTAL AMPS:	138 A		124 A		125 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	15392 VA	100.00%	15392 VA		
Lighting	896 VA	125.00%	1120 VA	**TOTAL CONN. LOAD:**	107390 VA
Other	3047 VA	100.00%	3047 VA	**TOTAL EST. LOAD:**	91689 VA
Receptacle	4655 VA	100.00%	4655 VA	**TOTAL CONN.:**	129 A
Equipment - Power	1000 VA	100.00%	1000 VA	**TOTAL EST. DEMAND:**	110 A
Telecomm Rack	63700 VA	75.00%	47775 VA		
Distribution Rack	14700 VA	100.00%	14700 VA		
FIRE ALARM	4000 VA	100.00%	4000 VA		

NOTES:

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
BRIAN W. YANNETTI
Lic. No. 047903
6/28/2016
PROFESSIONAL ENGINEER
SEAL

Parsons/Williams | BURNS & McDONNELL
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FOR COMMANDER NAVFAC ELTL

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES: BWY | DRW: BWY | CHK: JR
PROJECT MANAGER: J-HESLER
LPT TECH: BRANCHHEAD:JILLUMENKRANTZ
CHIEF ENG/ARCH: JILLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/NFEC NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
1314 BTH ST SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
PANEL SCHEDULES

SCALE: **AS NOTED**
EPROJECT NO. **1321174**
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. **1307948**
SHEET **33** OF **47**
E-701

DRAW FORM REVISION: 10 MAY 2014

FILE NAME: B:\Revit Projects\Revit 2014\21520\21520R14_E_CEN_Bryannetti V16\E02.rvt
REV DATE: 6/23/2016 2:31:47 PM

BRANCH PANEL: LDP

LOCATION: ELECTRICAL ROOM B10
SUPPLY FROM: T1
MOUNTING: Surface
ENCLOSURE: Type 1
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
A.I.C. RATING: 22,000
MAIN TYPE: MCB
MAIN RATING: 400 A
MCB RATING: 400 A

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	WIRE & CONDUIT SIZE	A		B		C		WIRE & CONDUIT SIZE	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	Spare	20 A	1		0 VA	500...					2#12,#12G,3/4"C	1	20 A	GEN BATTERY CHARGER	2
3	RECEPTACLE - B10	20 A	1	2#12,#12G,3/4"C			360...	375...			2#12,#12G,3/4"C	1	20 A	CDP-1, 2 & 5	4
5	CDP- 3, 4, & 6	20 A	1	2#12,#12G,3/4"C					500...	1080...	2#12,#12G,3/4"C	1	20 A	RECEPTACLE - B13	6
7	GEN JACKET HEATER	20 A	1	2#12,#12G,3/4"C	500 VA	1080...					2#12,#12G,3/4"C	1	20 A	RECEPTACLE - B13	8
9	Spare	20 A	1				0 VA	3848...			2#8,#8G,3/4"C	2	40 A	HPU-2	10
11	RECEPTACLE - B15 & B15A	20 A	1	2#12,#12G,3/4"C					1260...	3848...					12
13	HPU-1	40 A	2	2#8,#8G,3/4"C	3848...	1500...					SEE ONE-LINE	3	60 A	PANEL FA	14
15							3848...	1500...							16
17									2695...	1000...					18
19	PANEL TPL	200 A	3	SEE ONE-LINE	2695...	0 VA						1	20 A	Spare	20
21							2450...	0 VA				1	20 A	Spare	22
23	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	24
25	Space	--	--	--	0 VA	0 VA					--	--	--	Space	26
27	Space	--	--	--			0 VA	0 VA			--	--	--	Space	28
29	Space	--	--	--					0 VA	0 VA	--	--	--	Space	30
31	Space	--	--	--	0 VA	0 VA					--	--	--	Space	32
33	Space	--	--	--			0 VA	0 VA			--	--	--	Space	34
35	Space	--	--	--					0 VA	0 VA	--	--	--	Space	36
37	Space	--	--	--	0 VA	0 VA					--	--	--	Space	38
39	Space	--	--	--			0 VA	0 VA			--	--	--	Space	40
41	Space	--	--	--					0 VA	0 VA	--	--	--	Space	42
				TOTALLOAD:	34378 VA		34431 VA		34638 VA						
				TOTAL AMPS:	286 A		287 A		289 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	15392 VA	100.00%	15392 VA		
Receptacle	4655 VA	100.00%	4655 VA	**TOTAL CONN. LOAD:**	103447 VA
Equipment - Power	1000 VA	100.00%	1000 VA	**TOTAL EST. LOAD:**	87522 VA
Telecomm Rack	63700 VA	75.00%	47775 VA	**TOTAL CONN.:**	287 A
Distribution Rack	14700 VA	100.00%	14700 VA	**TOTAL EST. DEMAND:**	243 A
FIRE ALARM	4000 VA	100.00%	4000 VA		

NOTES:

BRANCH PANEL: FA

LOCATION: ELECTRICAL ROOM B10
SUPPLY FROM: LDP
MOUNTING: Surface
ENCLOSURE: Type 1
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
A.I.C. RATING: 22,000
MAIN TYPE: MLO
MAIN RATING: 100 A
MCB RATING:

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	WIRE & CONDUIT SIZE	A		B		C		WIRE & CONDUIT SIZE	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	AMP	20 A	1	2#12,#12G,3/4"C	500 VA	500...					2#12,#12G,3/4"C	1	20 A	ASFP	2
3	FSCP	20 A	1	2#12,#12G,3/4"C			500...	500...			2#12,#12G,3/4"C	1	20 A	FTR	4
5	NAC	20 A	1	2#12,#12G,3/4"C					500...	500 VA	2#12,#12G,3/4"C	1	20 A	NAC	6
7	FACP/MNS	20 A	1	2#12,#12G,3/4"C	500 VA	0 VA						1	0 A	Spare	8
9	FTR	20 A	1	2#12,#12G,3/4"C			500...	0 VA				1	0 A	Spare	10
11	Spare	0 A	1						0 VA	0 VA		1	0 A	Spare	12
13	Spare	0 A	1		0 VA	0 VA						1	0 A	Spare	14
15	Spare	0 A	1				0 VA	0 VA				1	0 A	Spare	16
17	Spare	0 A	1						0 VA	0 VA		1	0 A	Spare	18
19	Space	--	--	--	0 VA	0 VA					--	--	--	Space	20
21	Space	--	--	--			0 VA	0 VA			--	--	--	Space	22
23	Space	--	--	--					0 VA	0 VA	--	--	--	Space	24
				TOTALLOAD:	1500 VA		1500 VA		1000 VA						
				TOTAL AMPS:	13 A		13 A		8 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
FIRE ALARM	4000 VA	100.00%	4000 VA		
				TOTAL CONN. LOAD:	4000 VA
				TOTAL EST. LOAD:	4000 VA
				TOTAL CONN.:	11 A
				TOTAL EST. DEMAND:	11 A

NOTES:

BRANCH PANEL: TPL

LOCATION: ELECTRICAL ROOM B10
SUPPLY FROM: LDP
MOUNTING: Surface
ENCLOSURE: Type 1
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
A.I.C. RATING: 22,000
MAIN TYPE: MLO
MAIN RATING: 225 A
MCB RATING:

NOTES:

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	WIRE & CONDUIT SIZE	A		B		C		WIRE & CONDUIT SIZE	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	DISTRIBUTION RACK	30 A	2	2#10,#10G,3/4"C	2450...	2450...					2#10,#10G,3/4"C	2	30 A	DISTRIBUTION RACK	2
3															4
5	Spare	20 A	1						0 VA	2450...	2#10,#10G,3/4"C	2	30 A	TELECOMM RACK	6
7	DISTRIBUTION RACK	30 A	2	2#10,#10G,3/4"C	2450...	2450...									8
9							2450...	2450...			2#10,#10G,3/4"C	2	30 A	TELECOMM RACK	10
11	TELECOMM RACK	30 A	2	2#10,#10G,3/4"C					2450...	2450...					12
13					2450...	2450...					2#10,#10G,3/4"C	2	30 A	TELECOMM RACK	14
15	TELECOMM RACK	30 A	2	2#10,#10G,3/4"C			2450...	2450...							16
17									2450...	2450...					18
19	Spare	20 A	1		0 VA	2450...					2#10,#10G,3/4"C	2	30 A	TELECOMM RACK	20
21	TELECOMM RACK	30 A	2	2#10,#10G,3/4"C			2450...	2450...							22
23									2450...	2450...	2#10,#10G,3/4"C	2	30 A	TELECOMM RACK	24
25	TELECOMM RACK	30 A	2	2#10,#10G,3/4"C	2450...	2450...									26
27							2450...	2450...			2#10,#10G,3/4"C	2	30 A	TELECOMM RACK	28
29	TELECOMM RACK	30 A	2	2#10,#10G,3/4"C					2450...	2450...					30
31					2450...	2450...									32
33	TELECOMM RACK	30 A	2	2#10,#10G,3/4"C			2450...	0 VA				1	20 A	Spare	34
35									2450...	0 VA		1	20 A	Spare	36
37	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	38
39	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	40
41	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	42
				TOTALLOAD:	26950 VA		26950 VA		24500 VA						
				TOTAL AMPS:	228 A		228 A		204 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Telecomm Rack	63700 VA	75.00%	47775 VA		
Distribution Rack	14700 VA	100.00%	14700 VA	**TOTAL CONN. LOAD:**	78400 VA
				TOTAL EST. LOAD:	62475 VA
				TOTAL CONN.:	218 A
				TOTAL EST. DEMAND:	173 A

NOTES:

DATE	DESCRIPTION	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
BRIAN W. YANNETTI
Lic. No. 047903
6/28/2016
PROFESSIONAL ENGINEER
SEAL

Weaver/Williams | BURNS & McDONNELL
JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC BLTL

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES BWY | DRW BWY | CHK JR
PROJECT MANAGER JHESLER
LPT TECH. BRANCHHEADJBLUMENKRANTZ
CHIEF ENG/ARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/NFEC NAVAL FACILITIES ENGINEERING COMMAND, WASHINGTON
8TH ST SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON, WASHINGTON, DC
MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB
PANEL SCHEDULES

SCALE **AS NOTED**
EPROJECT NO. **1321174**
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. **1307949**
SHEET **34** OF **47**
E-702

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: B:\Revit Projects\Revit 2014\21320\21314_E_CEN_Byannetti V0682.rvt
REVDATE: 6/23/2016 2:31:48 PM

TELECOMMUNICATION SYSTEM LEGEND

- CONDUIT ROUTED IN CEILING AND TERMINATED WITH BUSHING.
- CONDUIT SLEEVE WITH BUSHINGS ON EACH SIDE. 4" C. U.N.O. PATCH EACH CONDUIT SLEEVE WITH NEW MATERIALS TO MATCH EXISTING MATERIALS IN DESIGN, APPEARANCE AND QUALITY. PROVIDE FIRESTOPPING SEE SPECIFICATIONS
- PRIMARY EQUIPMENT PROTECTOR
- SPLITTER (QTY OF TAPS AS REQUIRED PER DROPS SERVED)
- AMPLIFIER
- DIRECTIONAL COUPLER (QTY OF TAPS AS REQUIRED PER DROPS SERVED)
- TELECOMMUNICATIONS BOND TO BUILDING STEEL
- TELECOMMUNICATIONS CABLE TO GFGI EQUIPMENT TERMINATED BY OTHERS.
- 2.4 GHz WIRELESS ACCESS POINT WITH EXTERNAL OMNIDIRECTIONAL ANTENNAS
- 48"H X 24"W X 32"D WALL MOUNT CABINET, WITH, COOLING FANS, GROUNDING, 19" RACKING, AND FRONT TRANSLUCENT FULLY HINGED DOOR.
- 7'H X 19"W UL LISTED EIA RACK WITH UNIVERSAL MOUNTING HOLE SPACING ANF VERTICAL CABLE MANAGEMENT SYSTEMS
- X — CROSS CONNECT FIELD. 110 BLOCKS, 4 PAIR UTP PATCH PANEL, OR FIBER OPTIC PATCH PANEL.
- TGB — TELECOMMUNICATIONS GROUNDING BUSBAR (TGB)
- TMGB — TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
- CTx — CABLETRAY DESIGNATOR. REFER TO CABLETRAY SCHEDULE FOR TYPE AND SIZE.
- xxxx — TELECOM EQUIPMENT DESIGNATOR. REFER TO EQUIPMENT SCHEDULE.
- CONNECTION TO ELECTRICAL SERVICE EQUIPMENT (PANEL OF SWITCHBOARD) GROUND BUS.
- GROUNDING ELECTRODE SYSTEM
- CABLE TRAY AS INDICATED. SEE CABLE TRAY SCHEDULE FOR MOUNTING INFORMATION.
- RUNWAY TYPE CABLE TRAY. SEE CABLE TRAY SCHEDULE FOR MORE INFORMATION.
- CONDUIT SLEEVE 'UP'
- CONDUIT SLEEVE 'DOWN'
- 1 — PLAN REFERENCE NOTE, REFER TO NOTE No. INDICATED.
- PLYWOOD. REFER TO TELECOM EQUIPMENT SCHEDULE.

DETAIL REFERENCE

A / 0.10 / T0.11
- INDICATE DETAIL DESIGNATION
- THE DRAWING WHERE DETAIL IS SHOWN.
- THE DRAWING WHERE DETAIL IS TAKEN.

LIMITS OF ENLARGED PLAN. REFER TO DETAIL SYMBOL FOR LOCATION WHERE DETAIL CAN BE FOUND.

ELEVATION MARK

01 / 11
- INDICATE ELEVATION NUMBER
- INDICATE SHEET ON WHICH ELEVATION IS LOCATED.

1 / XXXX
- INDICATE DETAIL NUMBER
- INDICATE SHEET ON WHICH DETAIL IS LOCATED

WALL MOUNTED HALF-RACK INSTALLED ABOVE FINISHED CEILING LINE

VOICE 110 BLOCK.

MCP — STRUCTURED MEDIA CENTER PANEL

84"H X 24"W X 42"D LAN CABINET, WITH CASTERS, COOLING FANS, GROUNDING, 19" RACKING, TWO SIDE PANELS, REAR VENTED METAL FULLY HINGED REMOVABLE DOOR, TOP PANEL AND FRONT TRANSLUCENT FULLY HINGED REMOVABLE DOOR. DASHED LINE AROUND THE CABINET REPRESENT 36" CLEARANCE

PULL BOX

CABLE LEGEND

CATEGORY 3 CABLE	—3—3—3—3—
CATEGORY 6 CABLE	—6—6—6—6—
CAT-6 PATCH CABLE	—6P—6P—6P—6P—
COAX	—CX—CX—CX—CX—
COPPER	—CDP—CDP—CDP—
INTERCOM	—IC—IC—IC—IC—
MULTIMODE FIBER	—FM—FM—FM—FM—
POWER	—P—P—P—P—
SINGLE MODE FIBER	—FS—FS—FS—FS—

TELECOMMUNICATION ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PROVIDER
APP	APPLIANCE
A/V	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
BB	BACKBONE
BLDG	BUILDING
C	CONDUIT
CAT-3	CATEGORY 3
CAT-6	CATEGORY 6
CATV	COMMUNITY ANTENNA TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CKT	CIRCUIT
CP	CONSOLIDATION POINT
CPT	CORDLESS PHONE TRANSCEIVER
CSN	CLASSIFIED SIMULATION NETWORK
CT	CABLE TRAY
D	DREN – DEFENSE RESEARCH ENGINEERING NETWORK
DEMARC	DEMARCATION
DWG	DRAWINGS
E	EDNET – EDUCATIONAL NETWORK
EC	ELECTRICAL CONDUIT
EIA	ELECTRONIC INDUSTRIES ALLIANCE
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EN	EDNET NIPRNET
EQ	EQUIPMENT
ER	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EX	EXISTING
FO	FIBER OPTIC
FOIS	FIBER OPTIC INTRUSION DETECTION SYSTEM
FOPP	FIBER OPTIC PATCH PANEL
GE	GROUNDING EQUALIZER
GEC	GROUNDING ELECTRODE CONDUCTOR
GEF	GOVERNMENT FURNISHED EQUIPMENT
GFGI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
GND	GROUND
HC	HORIZONTAL CROSS CONNECT
HT	HEIGHT
ISDN	INTEGRATED SERVICES DIGITAL NETWORK
ITN	INFORMATION TRANSFER NODE
J	JTEN – JOINT TRAINING ENTERPRISES NETWORK
LAN	LOCAL AREA NETWORK
LEC	LOCAL EXCHANGE CARRIER
LPP	LIGHTNING PRIMARY PROTECTOR
M	METER
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIN	MINIMUM
MHz	MEGAHERTZ
MM	MULTIMODE
mm	MILLIMETER
MTS	MAIN TERMINAL SPACE
N	NIPRNET
N/A	NOT APPLICABLE
NB	NIGHT BELL
NE	NETWORK ENCLOSURE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NOB	NEW OFFICE BUILDING
NTS	NOT TO SCALE
OSP	OUTSIDE PLANT
P/C	PATCH CORD
PB	PULL BOX
PDS	PROTECTIVE DISTRIBUTION SYSTEM PER NSTISSI NO. 7003
P/P	PATCH PANEL
PBX	PRIVATE BRANCH EXCHANGE PBX
PR	PAIR
PRN	PRINTER
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMU	RACK MOUNTED UNIT
RX	REMOVE EXISTING
S	SIPRNET
SM	SINGLEMODE
STP	SHIELDED TWISTED PAIR
STR	STRAND
SWCH	SWITCH
TBB	TELECOMMUNICATION BONDING BACKBONE
TBD	TO BE DETERMINE
TE	TELECOM ENCLOSURE
TEF	TELECOMMUNICATIONS ENTRANCE FACILITY
TER	TELEPHONE EQUIPMENT ROOM
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
UCR	UNCLASSIFIED COMPUTER ROOM
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
um	MICRON OR MICROMETER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USN	UNCLASSIFIED SIMULATION NETWORK
UTP	UNSHIELDED TWISTED PAIR
V	VOICE
VERT	VERTICAL
W	WIRELESS
WA	WORK AREA
WAP	WIRELESS ACCESS POINT
WE	WALL MOUNT ENCLOSURE
WP	WEATHERPROOF
WS	WORKSTATION WS
XX	CROSS-CONNECT

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

BICSI — REZA ALIPANAH — Reg. No. 172261 — EXPIRES 12-31-17 — SEAL

Wiley/Wilson | BURNS & MCDONNELL — JOINT VENTURE

A/E INFO

APPROVED — FOR COMMANDER NAVFAC

ACTIVITY: NAVFAC WASHINGTON

SATISFACTORY TO DATE: 30 JUNE 2016

DES. RA | DRW. JTA | CHK. RA

PROJECT MANAGER: J.HEISLER

IPT TECH. BRANCHHEAD: JELLMENKRANTZ

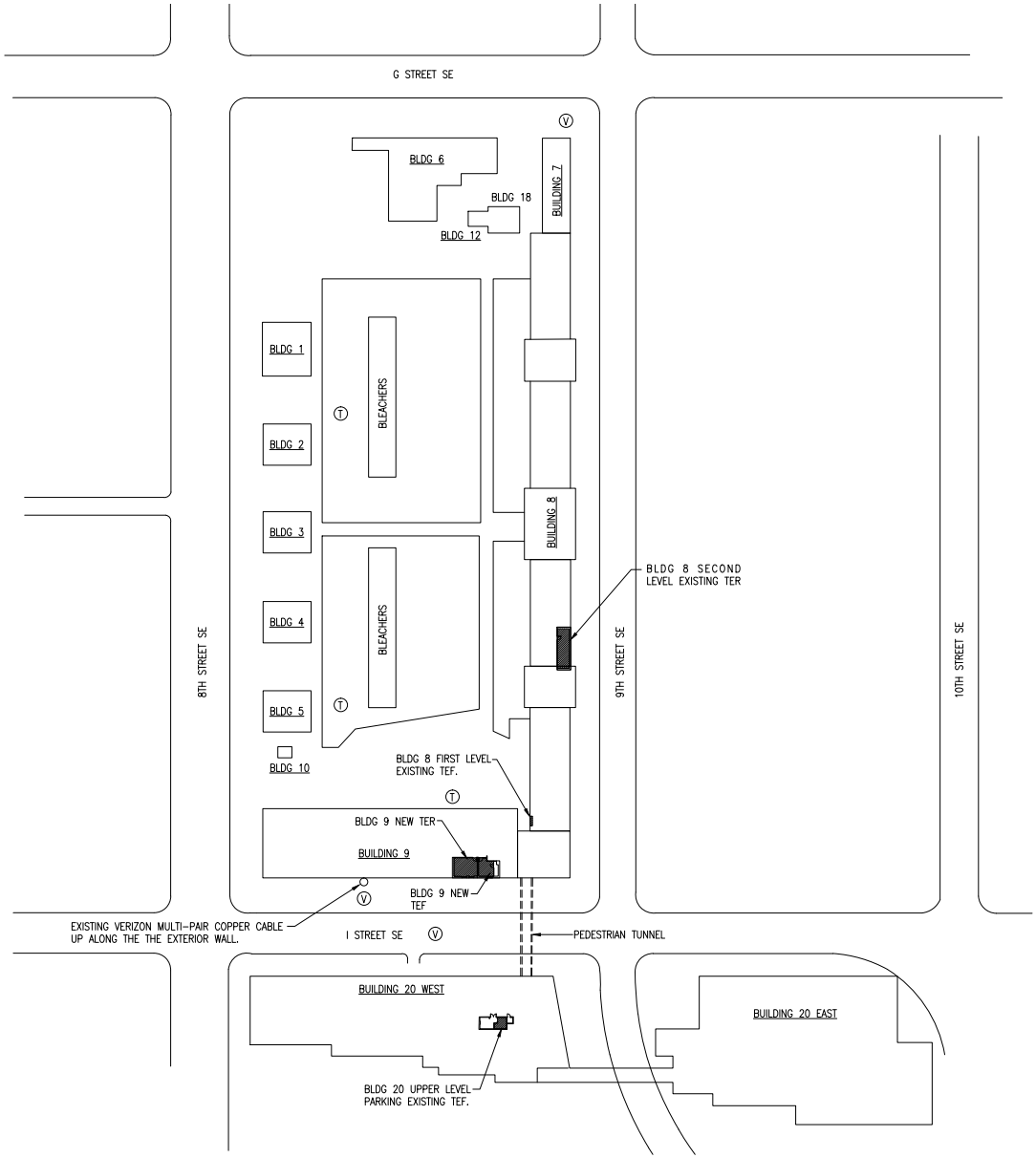
CHIEF ENG ARCH: JELLMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
PWD/NAVFAC WASHINGTON, 9324 SSE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC
MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB
LEGEND & ABBREVIATIONS

SCALE: AS SHOWN
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079250
SHEET 35 OF 47
T-001

DRAWFORM REVISION: 10 MAY 2014

FILE NAME:
REVDATE:



OVERALL KEYPLAN - TELECOMMUNICATIONS

1" =50'-0"

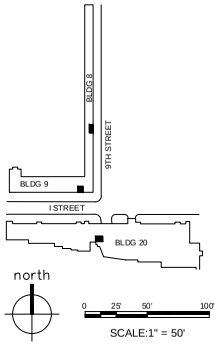
SHEET LEGEND

(V) VERIZON MANHOLE

(T) MBW TELECOM MANHOLE

BUILDING NO.	BUILDING NAME
BUILDING 1	MARRIED OFFICERS QUARTERS
BUILDING 2	MARRIED OFFICERS QUARTERS
BUILDING 3	PUBLIC QUARTERS
BUILDING 4	MARRIED OFFICERS QUARTERS
BUILDING 5	UOPH, OFFICERS MESS
BUILDING 6	COMMANDANTS HOUSE
BUILDING 7	WAREHOUSE, GARAGE
BUILDING 8	BATTALION HQ
BUILDING 9	APPLIED INSTRUCTION BUILDING
BUILDING 10	GATE/SENTRY HOUSE
BUILDING 12	GREENHOUSE
BUILDING 18	GENERAL STORAGE
BUILDING 20	BEQ

KEY PLAN:



							APPR.
							DATE
							DESCRIPTION
							SYM

NAVFAC

BICSI RCDD Reza Alpanah Reg. No. 1722620 Expires 12-31-17 Signature SEAL

Wiley/Wilson | Burns McDonnell JOINT VENTURE

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES.	RA	DRW.	JTA	CHK.	RA

PROJECT MANAGER JHEISLER

IPT TECH. BRANCH HEAD JBLUMENKRANTZ

CHIEF ENG/ARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
9TH & I SE, WASHINGTON, DC 20390

PWD/PTC MARINE BARRACKS WASHINGTON WASHINGTON, DC

MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB

OVERALL KEYPLAN

SCALE: 1" = 50'-0"

EPROJECT NO. 1321174

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 13079251

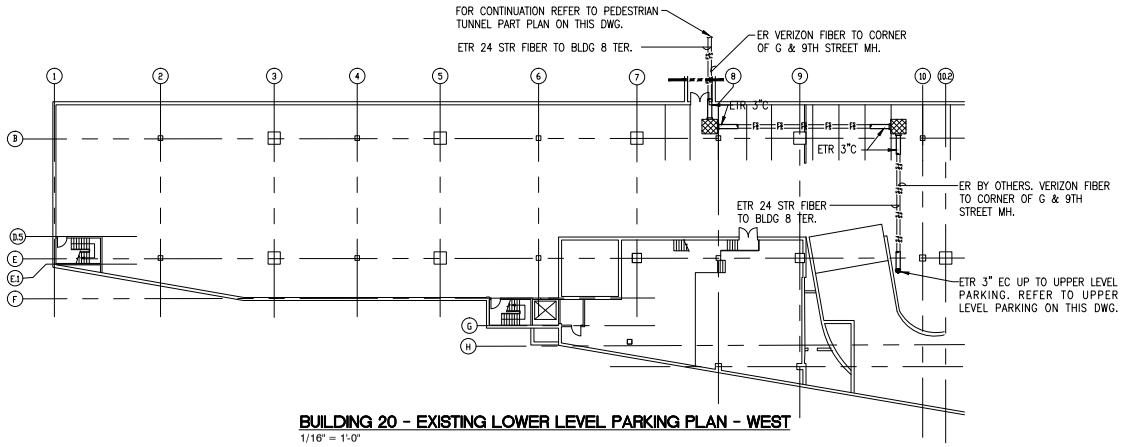
SHEET 36 OF 47

T-010

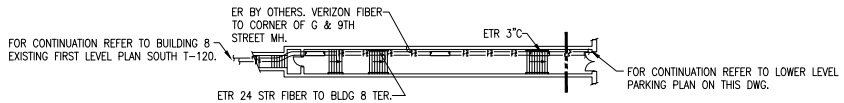
DRAWING REVISION: 10 MAY 2014

FILE NAME:

REVDATE:

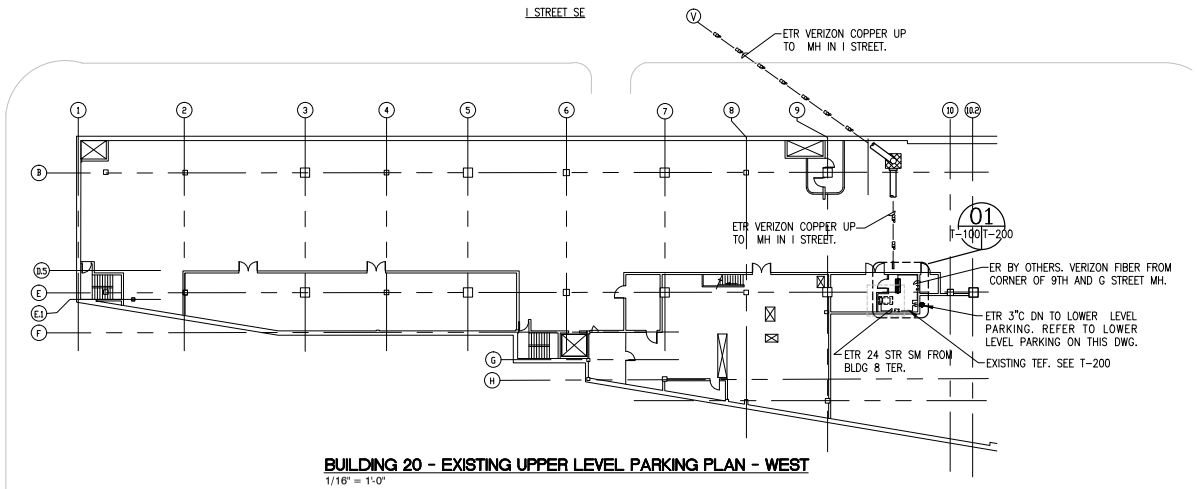


BUILDING 20 - EXISTING LOWER LEVEL PARKING PLAN - WEST
1/16" = 1'-0"



PART PLAN - EXISTING PEDESTRIAN TUNNEL
1/16" = 1'-0"

north

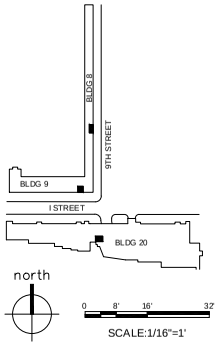


BUILDING 20 - EXISTING UPPER LEVEL PARKING PLAN - WEST
1/16" = 1'-0"

GENERAL NOTES

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE GOVERNMENT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



SYM	DESCRIPTION	DATE	APPR.

SEAL

Wiley/Wilson | BURNS & McDONNELL JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES. RA	DRW. JTA	CHK. RA

PROJECT MANAGER JHEBLER
IPT TECH. BRANCH HEAD JBLUMENKRANTZ
CHIEF ENG ARCH JBLUMENKRANTZ

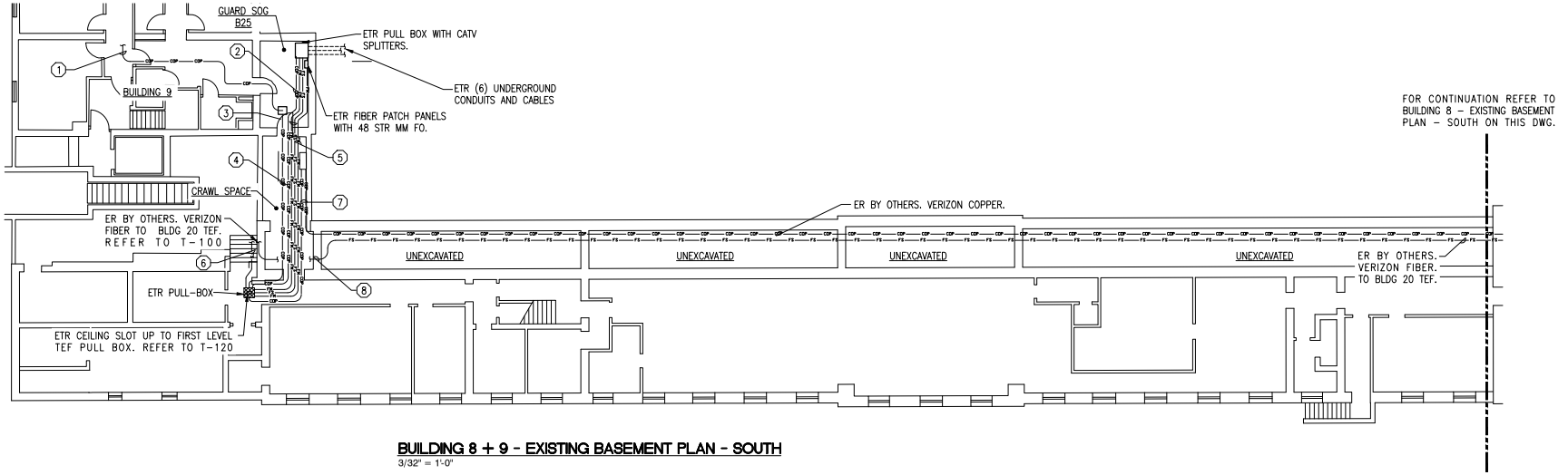
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
9TH & I STREET, WASHINGTON, DC 20390
PWD/NYPC
MARINE BARRACKS WASHINGTON
MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB
BLDG 20 - EXISTING TELECOM PLANS

SCALE: 1/16" = 1'-0"
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079252
SHEET 37 OF 47
T-100

DRAWFORM REVISION: 10 MAY 2014

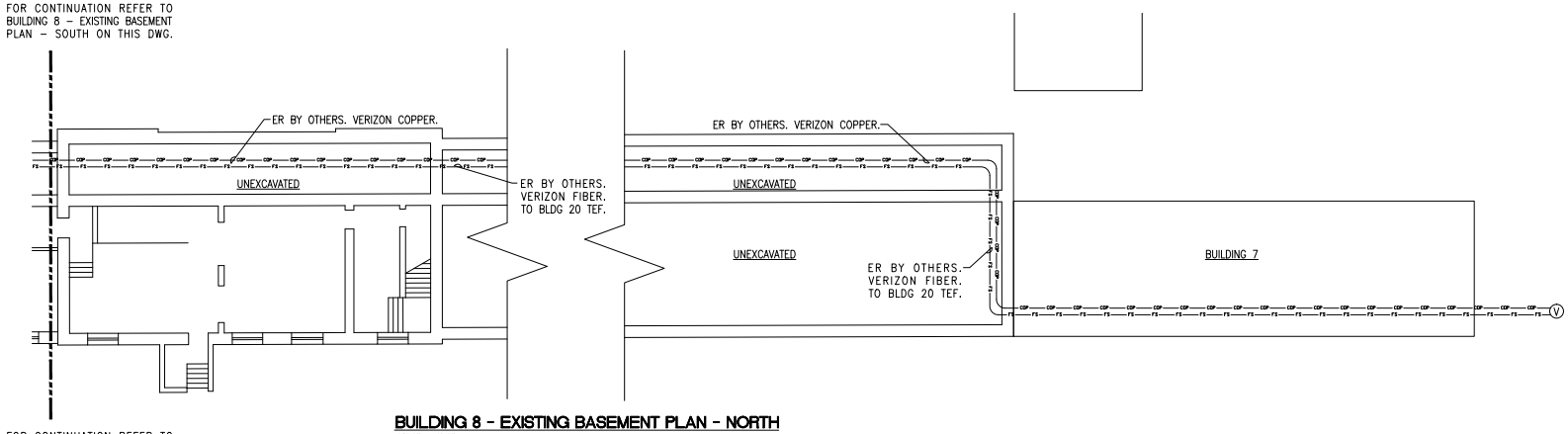
FILE NAME:
REVDATE:

UNCLASSIFIED



BUILDING 8 + 9 - EXISTING BASEMENT PLAN - SOUTH

3/32" = 1'-0"



BUILDING 8 - EXISTING BASEMENT PLAN - NORTH

3/32" = 1'-0"

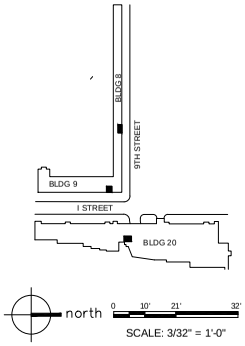
GENERAL NOTES

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE GOVERNMENT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SHEET NOTES

1. ER 2"C WITH 100 PAIR COPPER TO BLDG 9 TEL/DATA ROOM B12. REFER TO T-300. COORDINATE LOCATION WITH ETR CONDUIT AND CABLING.
2. ER COPPER FROM BLDG 1,2,3,4,5 & 6. REFER TO T-300.
3. ETR 36 STR MM & 36 STR SM FROM BLDG 1,2,3,4,5 & 6 TO BLDG 8 TER.
4. ER 2"C WITH 100 PAIR COPPER TO BLDG 8 TEF.
5. ER 48 STR MM FO. FROM BLDG 1,2,3,4,5 & 6 TO BLDG 8 TER.
6. ETR 24 SM FROM BLDG 20 TEF. REFER TO T-100
7. ER VERIZON COPPER. TO BLDG 8 TEF
8. ER VERIZON FIBER. TO BLDG 20 TEF. REFER TO T-100.

KEY PLAN:



				APPR.
				DATE
				DESCRIPTION
				SYM

NAVFAC

BICSI
REZA ALPANAH
Reg. No. 172210
EXPIRES 12-31-17
SEAL

Wiley/Wilson | BURNS & MCDONNELL
JOINT VENTURE

ATE INFO

APPROVED
FOR COMMANDER NAVFAC / N.A.

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES. RA	DRW. JTA	CHK. RA

PROJECT MANAGER: J HESLER
IPT TECH. BRANCH HEAD: JBLUMENKRANTZ
CHIEF ENG/ARCH: JBLUMENKRANTZ

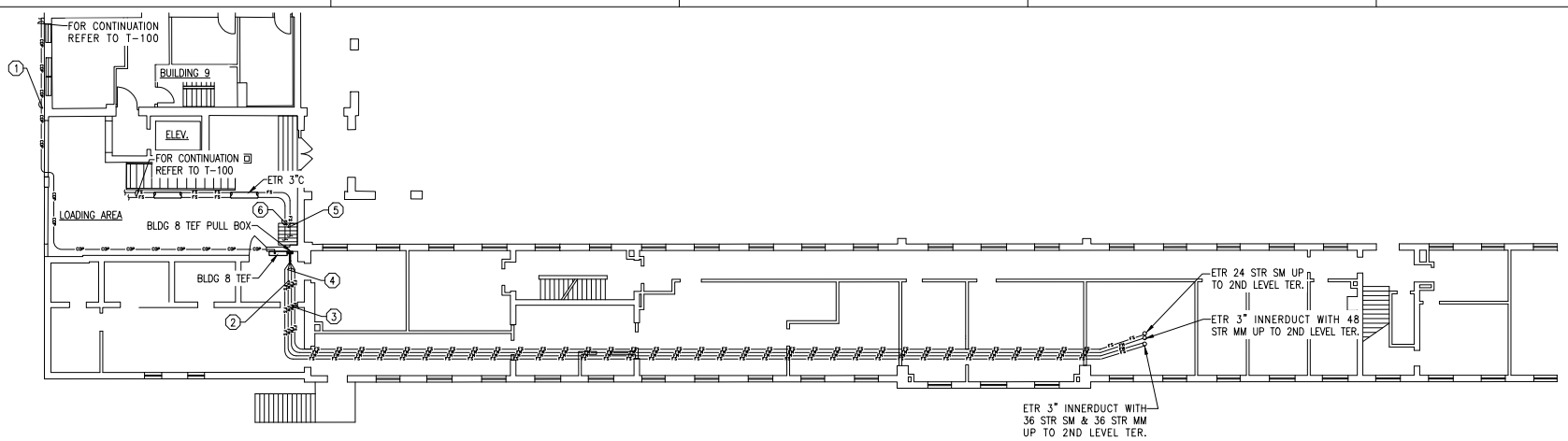
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD NAVFAC WASHINGTON, DC
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
6TH ST. SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
WASHINGTON, DC
MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB
BLDG 8 - EXISTING BASEMENT PLAN - TELECOM

SCALE 3/32" = 1'-0"
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079253
SHEET 38 OF 47
T-110

DRAWFORM REVISION: 10 MAY 2014

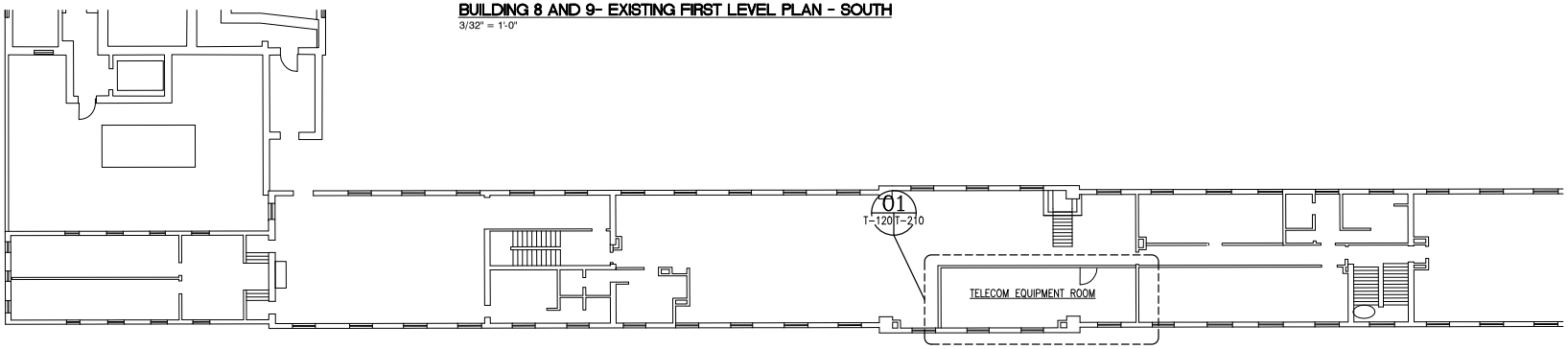
FILE NAME:
REVDATE:

UNCLASSIFIED



BUILDING 8 AND 9- EXISTING FIRST LEVEL PLAN - SOUTH

3/32" = 1'-0"



BUILDING 8 - EXISTING SECOND LEVEL PLAN - SOUTH

3/32" = 1'-0"

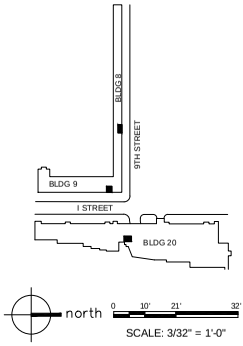
GENERAL NOTES

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE GOVERNMENT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SHEET NOTES

1. ER BY OTHERS. VERIZON COPPER BACKBONE FROM I STREET MANHOLE MOUNTED ON THE EXTERIOR WALL OF BUILDING 9 IN I STREET. ROUTED TO THE EXISTING COPPER TEF. IN BUILDING 8.
2. ETR 3" INNERDUCT WITH 36 STR SM & 36 STR MM FROM BLDG 1,2,3,4,5 & 6. REFER TO T-110
3. ETR 3"C WITH 24 STR SM FROM BLDG 20 TEF. REFER TO T-110
4. ETR 3" INNERDUCT WITH 48 STR MM FROM BLDG 1,2,3,4,5 & 6. REFER TO T-110
5. ER BY OTHERS. VERIZON FIBER FROM CORNER OF 9TH AND G STREET MH. FOR CONTINUATION REFER TO T-110
6. ETR 24SM FROM BLDG 20 TEF. TO BUILDING 8 TER.

KEY PLAN:



SYM	DESCRIPTION	DATE	APPR.

SEAL

Wiley/Wilson | BURNS & McDONNELL JOINT VENTURE

A/E INFO

APPROVED

FOR COMMANDER NAVFAC / N.A.

ACTIVITY

NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES. RA	DRW. JTA	CHK. RA

PROJECT MANAGER: J HESLER

IPT TECH. BRANCH HEAD: JBLLMENKRANTZ

CHIEF ENG/ARCH: JBLLMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD NAVFAC WASHINGTON, DC
NAVAL FACILITIES ENGINEERING COMMAND • WASHINGTON, DC
9TH ST. SE, WASHINGTON, DC 20390

MARINE BARRACKS WASHINGTON

MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB

BLDG 8 - EXISTING 1ST & 2ND LEVELS - TELECOM

SCALE 3/32" = 1'-0"

EPROJECT NO. 1321174

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 13079254

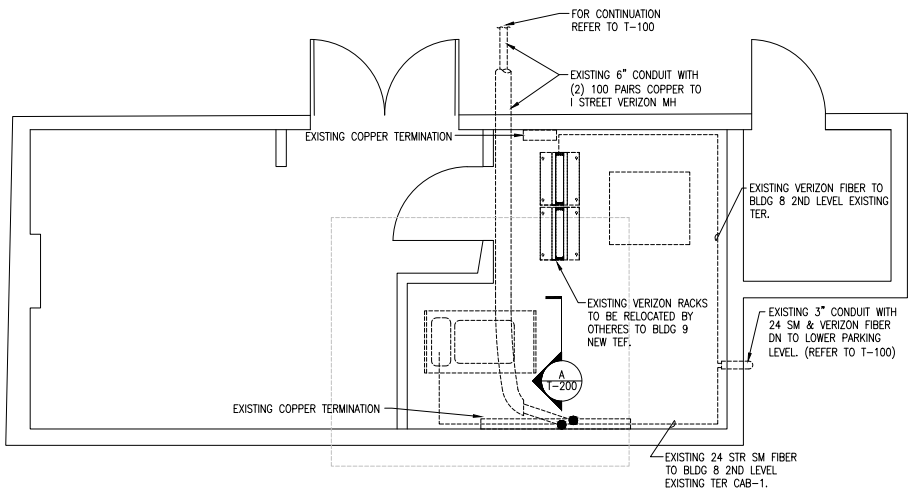
SHEET 39 OF 47

T-120

DRAWFORM REVISION: 10 MAY 2014

FILE NAME:

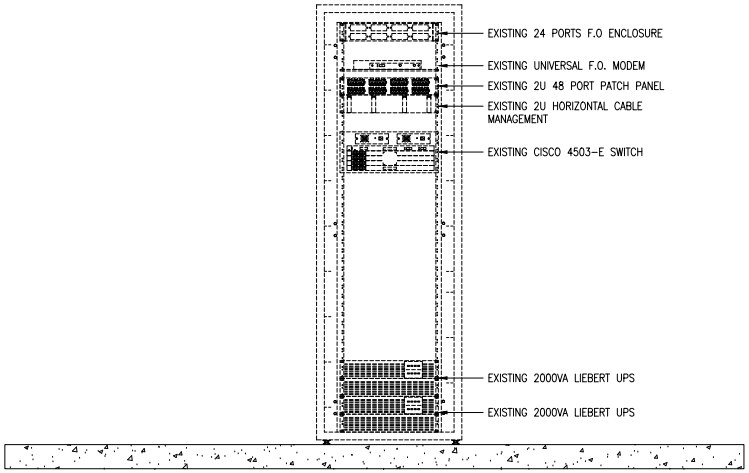
REVDATE:



01 T-100 T-200 **BLDG 20 EXISTING TELECOM ENTRANCE FACILITY (TEF)**
SCALE: 1/2" = 1'-0"

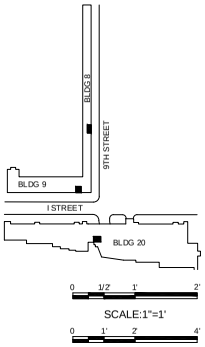
GENERAL NOTES

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE GOVERNMENT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.



A T-200 T-200 **BLDG 20 TEF RACK ELEVATION**
SCALE: 1" = 1'-0"

KEY PLAN:



SYM	DESCRIPTION	DATE	APPR.

NAVFAC

BICSI RCDD Reza Alipanah Reg. No. 1722620 Expires 12-31-17 SEAL

Wiley/Wilson | BURNS & McDONNELL JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC (SL.7)

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES.	RA	DRW.	JTA	CHK.	RA

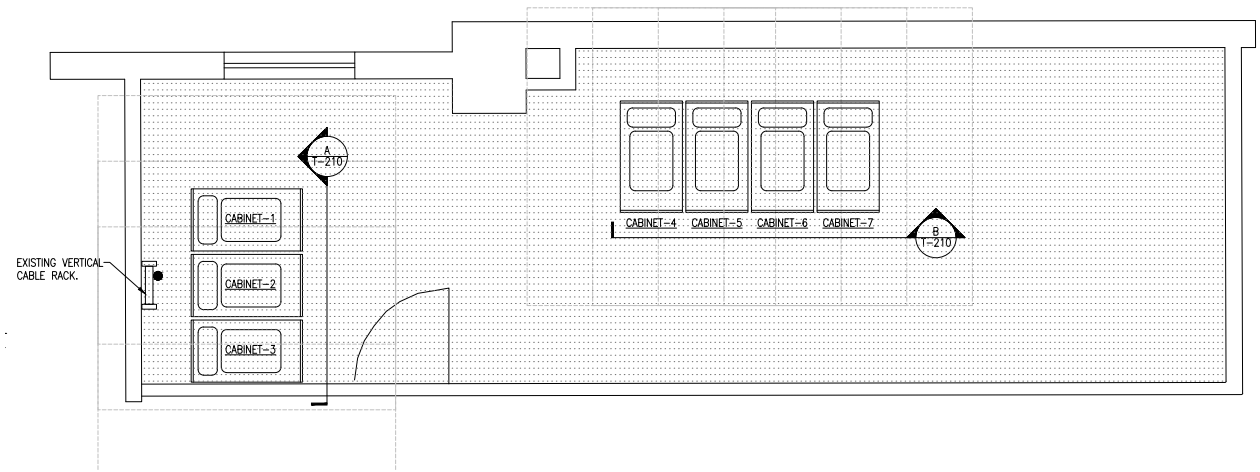
PROJECT MANAGER JHEISLER
IPT TECH. BRANCH HEAD JBLUMENKRANTZ
CHIEF ENG/ARCH JBLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
9TH & I STREET, SE, WASHINGTON, DC 20390
PWD/NAVFAC WASHINGTON, DC
MARINE BARRACKS WASHINGTON
MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB
BLDG 20 EXISTING ENLARGED TEF

SCALE: AS SHOWN
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079255
SHEET 40 OF 47
T-200

DRAWER DRM REVISION: 10 MAY 2014

FILE NAME:
REVDATE:



01 T-130 T-210 **BLDG 8 EXISTING TELECOM EQUIPMENT ROOM (TEF)**
SCALE: 1/2" = 1'-0"

SHEET NOTES

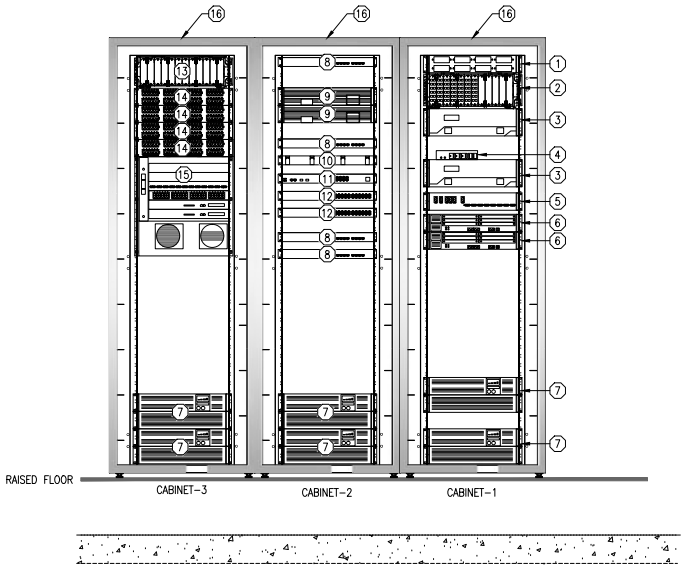
1. EXISTING 2U FIBER PATCH PANEL. FIBER FED FROM BLDG 8 TEF.
2. EXISTING 4U FIBER PATCH PANEL. FIBER FED FROM RESIDENT QUARTERS.
3. EXISTING CISCO 3845 INTEGRATED SERVICES ROUTER.
4. EXISTING ADTRAN OPTICAL CONVERTER UNIT (OCU) SINGLE MODE SC.
5. EXISTING CISCO ASR 1002-X ROUTER.
6. EXISTING JUNIPER SSG 550M SECURE SERVICES GATEWAYS.
7. EXISTING LIBERT CXT3 3000VA UPS
8. EXISTING CISCO 3750 SWITCH
9. EXISTING CISCO 2900 INTEGRATED SERVICES ROUTER.
10. EXISTING 1U HORIZONTAL CABLE MANAGEMENT.
11. EXISTING MCFEE M-1250 NETWORK SECURITY PLATFORM
12. EXISTING CISCO 3560 SWITCH.
13. EXISTING 3U FIBER PATCH PANEL. FIBER FED FROM RESIDENT QUARTERS (OLD FIBER)
14. EXISTING 48 PORT CAT-6 PATCH PANEL.
15. EXISTING CISCO CATALYST 4506-E SWITCH
16. EXISTING RACK ENCLOSURE.
17. EXISTING APC SMART-UPS 1500VA
18. EXISTING HP PROCURVE 2900-48G SWITCH
19. EXISTING DELL T5500 SERVER.
20. EXISTING LENOVO SERVER.

SHEET LEGEND

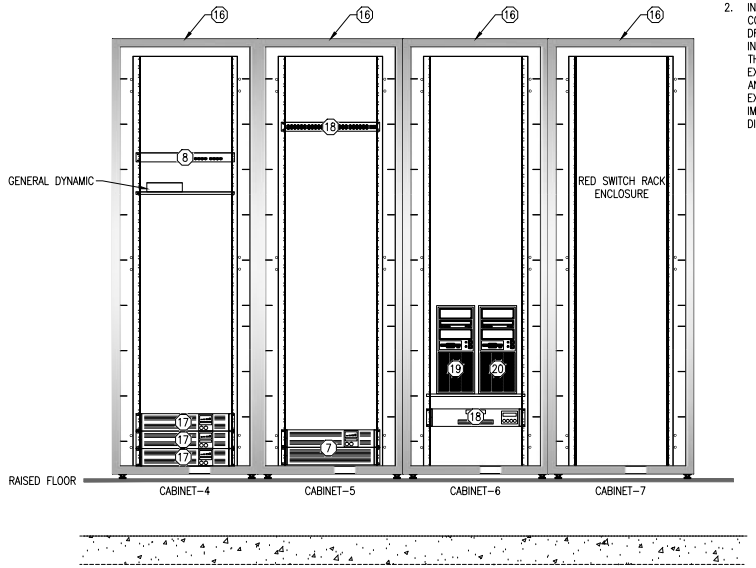
RAISE FLOOR

GENERAL NOTES

1. ALL EXISTING EQUIPMENT WILL BE RELOCATED BY THE OWNER TO THE NEW TER IN BUILDING 9 IN PHASE II.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE GOVERNMENT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

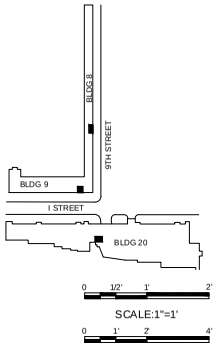


A T-210 T-210 **BLDG 8 TER RACK ELEVATION**
SCALE1" = 1'-0"



B T-210 T-210 **BLDG 8 TER RACK ELEVATION**
SCALE1" = 1'-0"

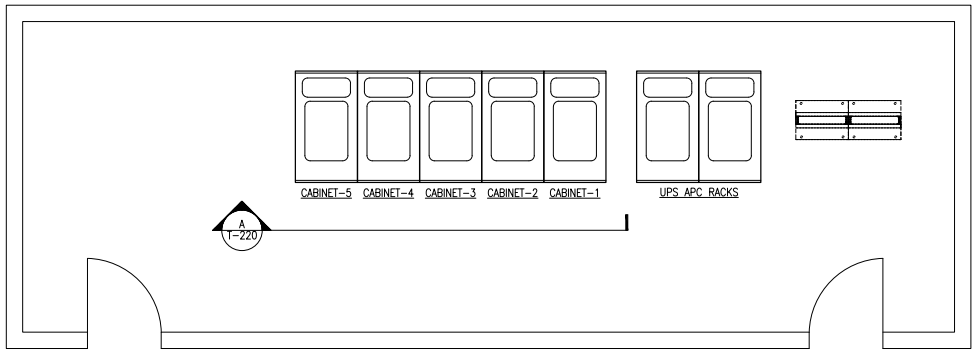
KEY PLAN:



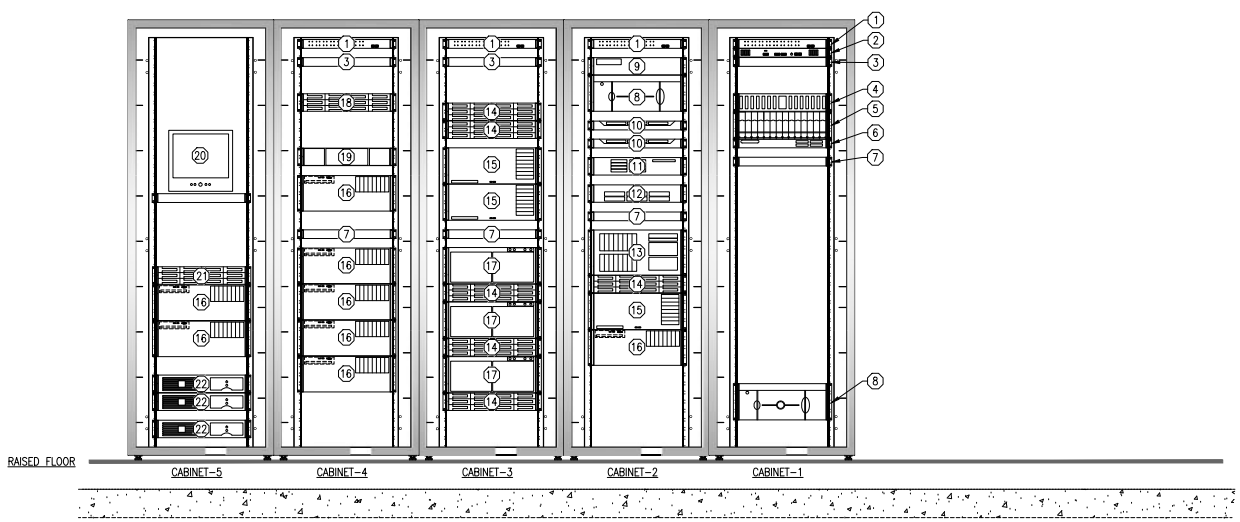
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
PWD/WNY 9TH ST. SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB
BLDG 8 EXISTING ENLARGED TER

SCALE AS SHOWN
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079256
SHEET 41 OF 47
T-210

DRAWING RM REVISION: 10 MAY 2014



01 T-220 T-220 **BLDG 220 EXISTING TELECOM EQUIPMENT ROOM (TER)**
SCALE: 1/2" = 1'-0"



A T-200 T-200 **BLDG 220 TER RACK ELEVATION**
SCALE1" = 1'-0"

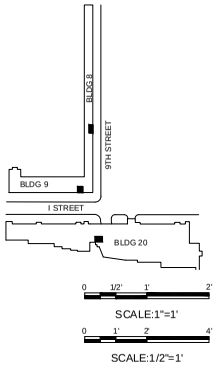
GENERAL NOTES

1. ALL EXISTING EQUIPMENT WILL BE RELOCATED BY THE OWNER TO THE NEW TER IN BUILDING 9 IN PHASE II.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE GOVERNMENT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SHEET NOTES

1. EXISTING APC KVM SWITCH
2. EXISITING APC INFRASTRUXURE MANAGER
3. EXISTING CISCO 3750 GV
4. EXISTING NETAPP FAS2020
5. EXISTING STORAGE UNIT
6. EXISTING DELL POWEREDGE 1950
7. EXISTING KVM CONSOLE
8. EXISTING DELL POWERVAULT 132T
9. EXISTING DELL POWERVAULT 114T
10. EXISTING DELL POWEREDGE R610
11. EXISTING HP PROLIANT DL380G6
12. EXISTING DELL POWEREDGE 2850
13. EXISTING HP PROLIANT ML350
14. EXISTING IBM DS3200 SYSTEM STORAGE
15. EXISTING IBM X3850 X5 SERVER
16. EXISTING HP PROLIANT DL580G5 SERVER
17. EXISTING NETFRAME 6600 SERVER
18. EXISTING HP STORAGEWORKS AIO1200 SYSTEM STORAGE
19. EXISTING DROBO B800I DATA STORAGE
20. EXISTING APC MONITOR
21. EXISTING STORAGE UNIT
22. EXISTING APC SMART UPS 2200

KEY PLAN:



DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
PWD/WFYD	NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
	9TH ST SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON	MARINE BARRACKS - MBW 8 & 9
	RELOCATION OF COMMUNICATIONS HUB
	BLDG 220 EXISTING ENLARGED TER
SCALE	AS SHOWN
EPROJECT NO.	1321174
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	13079257
SHEET	42 OF 47
	T-220

APPR. | DATE | DESCRIPTION | SYM

SEAL

ATE INFO

APPROVED
FOR COMMANDER NAVFAC / B.L.

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES. RA	DRW. JTA	CHK. RA

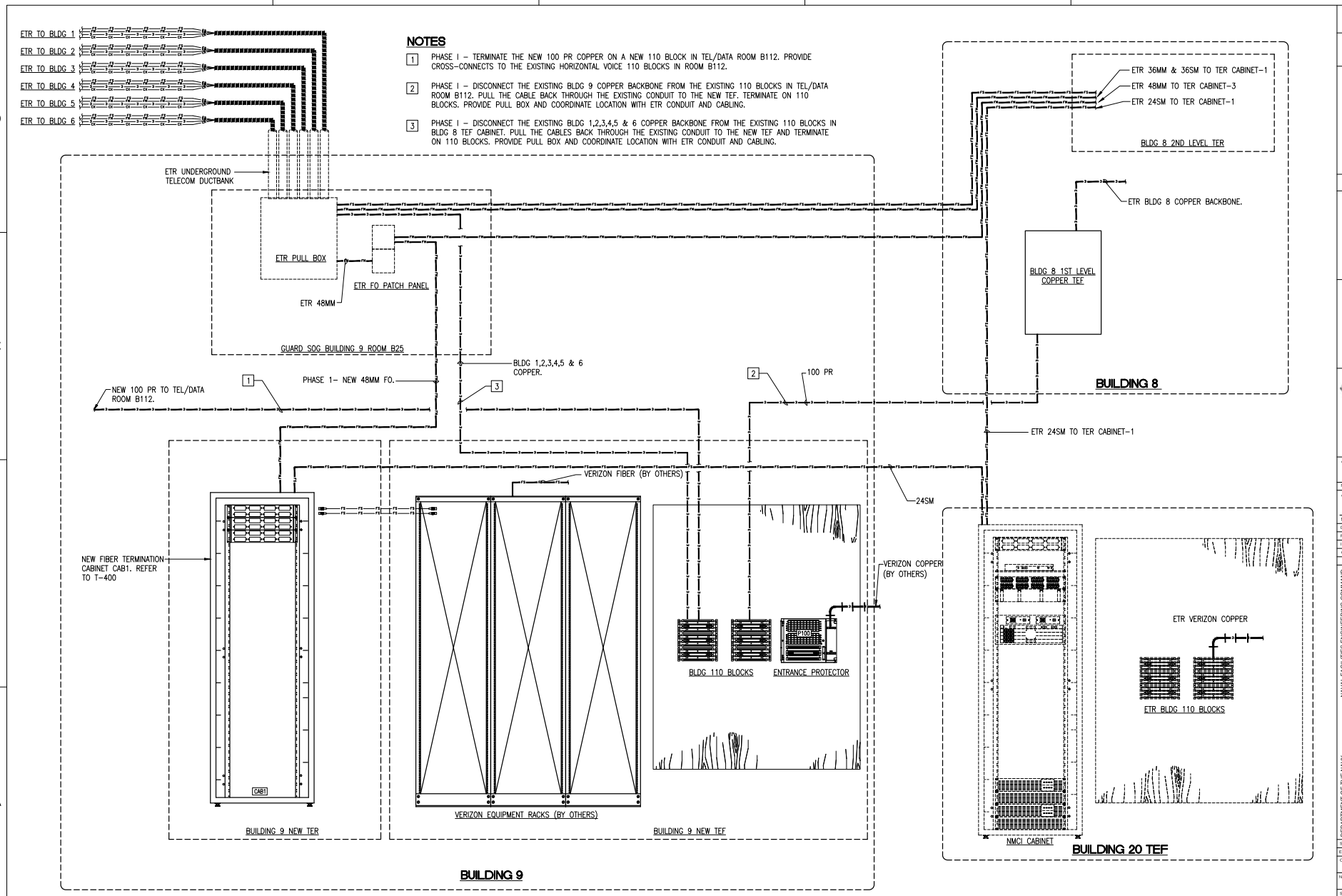
PROJECT MANAGER: J.HEISLER
IPT TECH. BRANCH HEAD: J.BLUMENKRANTZ
CHIEF ENG/ARCH: J.BLUMENKRANTZ

DRAWING RM REVISION: 10 MAY 2014

FILE NAME:
REVDATE:

NOTES

1. PHASE I – TERMINATE THE NEW 100 PR COPPER ON A NEW 110 BLOCK IN TEL/DATA ROOM B112. PROVIDE CROSS-CONNECTS TO THE EXISTING HORIZONTAL VOICE 110 BLOCKS IN ROOM B112.
2. PHASE I – DISCONNECT THE EXISTING BLDG 9 COPPER BACKBONE FROM THE EXISTING 110 BLOCKS IN TEL/DATA ROOM B112. PULL THE CABLE BACK THROUGH THE EXISTING CONDUIT TO THE NEW TEF. TERMINATE ON 110 BLOCKS. PROVIDE PULL BOX AND COORDINATE LOCATION WITH ETR CONDUIT AND CABLING.
3. PHASE I – DISCONNECT THE EXISTING BLDG 1,2,3,4,5 & 6 COPPER BACKBONE FROM THE EXISTING 110 BLOCKS IN BLDG 8 TEF CABINET. PULL THE CABLES BACK THROUGH THE EXISTING CONDUIT TO THE NEW TEF AND TERMINATE ON 110 BLOCKS. PROVIDE PULL BOX AND COORDINATE LOCATION WITH ETR CONDUIT AND CABLING.



DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC 6700 SS SEE, WASHINGTON, DC 20390	MARINE BARRACKS - MBW 8 & 9 RELOCATION OF COMMUNICATIONS HUB	WIRING DIAGRAM - PHASE I	
PWD/PORT: MARINE BARRACKS WASHINGTON, WASHINGTON, DC			
SCALE: AS SHOWN			
EPROJECT NO. 1321174			
CONSTR. CONTR. NO.			
NAVFAC DRAWING NO. 13079258			
SHEET 43 OF 47			
T-300			

APPR. | DATE | DESCRIPTION | SYM.

NAVFAC

BICSI Reza Alipanah Reg. No. 1722620 Expires 12-31-17 SEAL

Wiley/Wilson | Burns McDonnell JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC (N.A.)

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES.	RA	DRW.	JTA	CHK.	RA

PROJECT MANAGER JHEISLER
IPT TECH. BRANCH HEAD JILLMINKRANTZ
CHIEF ENG/ARCH JILLMINKRANTZ

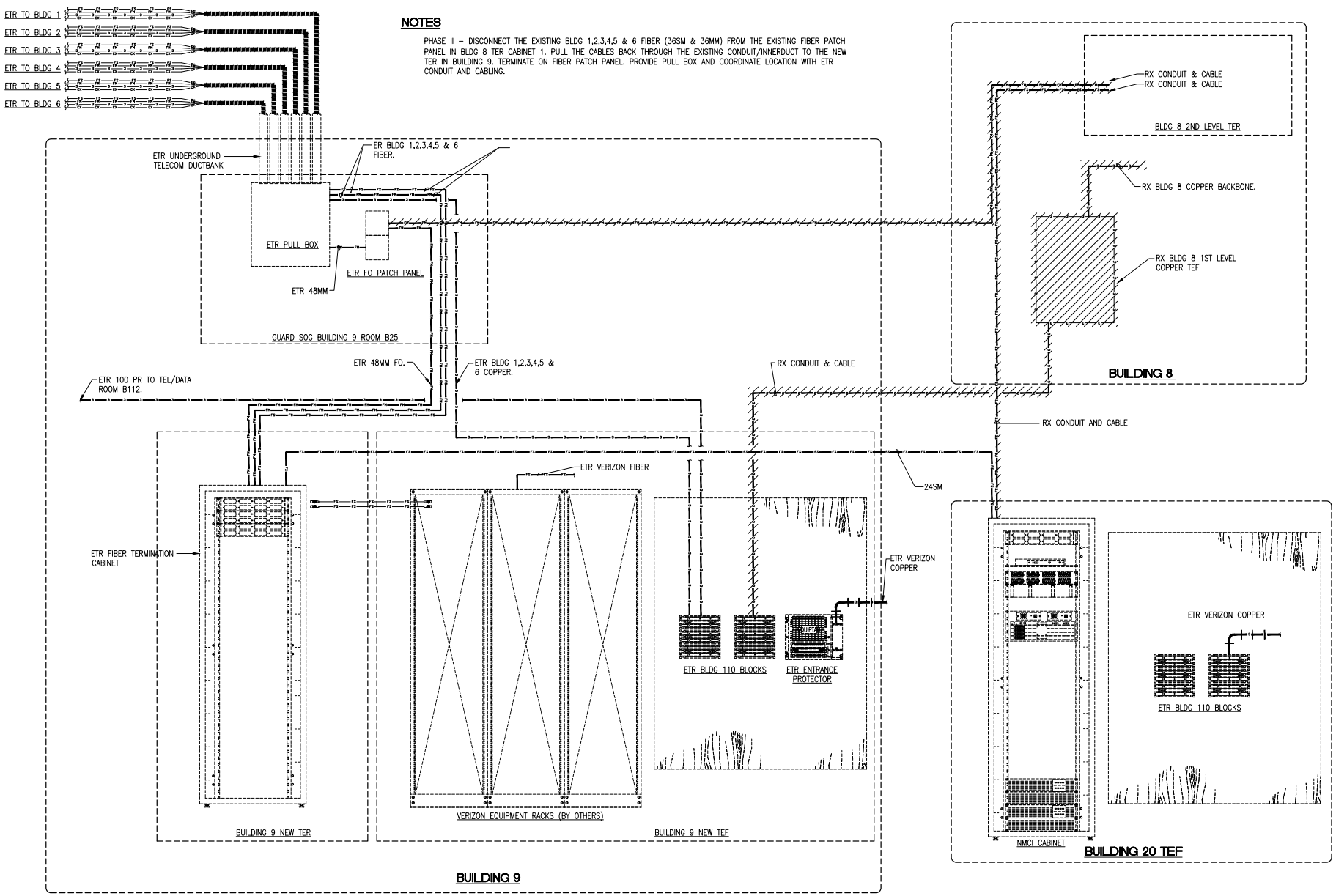
DRAWER DRW REVISION: 10 MAY 2014

FILE NAME:
REVDATE:

UNCLASSIFIED

NOTES

PHASE II – DISCONNECT THE EXISTING BLDG 1,2,3,4,5 & 6 FIBER (36SM & 36MM) FROM THE EXISTING FIBER PATCH PANEL IN BLDG 8 TER CABINET 1. PULL THE CABLES BACK THROUGH THE EXISTING CONDUIT/INNERDUCT TO THE NEW TER IN BUILDING 9. TERMINATE ON FIBER PATCH PANEL. PROVIDE PULL BOX AND COORDINATE LOCATION WITH ETR CONDUIT AND CABLING.



SYM	DESCRIPTION	DATE	APPR.

NAVFAC

BICSI RESA ALIPANAH Reg. No. 1722620 EXPIRES 12-31-17 SEAL

Wiley/Wilson | BURNS & McDONNELL JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES.	RA	DRW.	JTA	CHK.	RA

PROJECT MANAGER JHEISLER
IPT TECH. BRANCH HEAD JILLMINKRANTZ
CHIEF ENGIARCH JILLMINKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
PWD/WASHINGTON 6700 SS SEE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB
WIRING DIAGRAM - PHASE II

SCALE: AS SHOWN
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079259
SHEET 44 OF 47
T-310

DRAWING REVISION: 10 MAY 2014

FILE NAME:
REV/DATE:

UNCLASSIFIED

UNCLASSIFIED

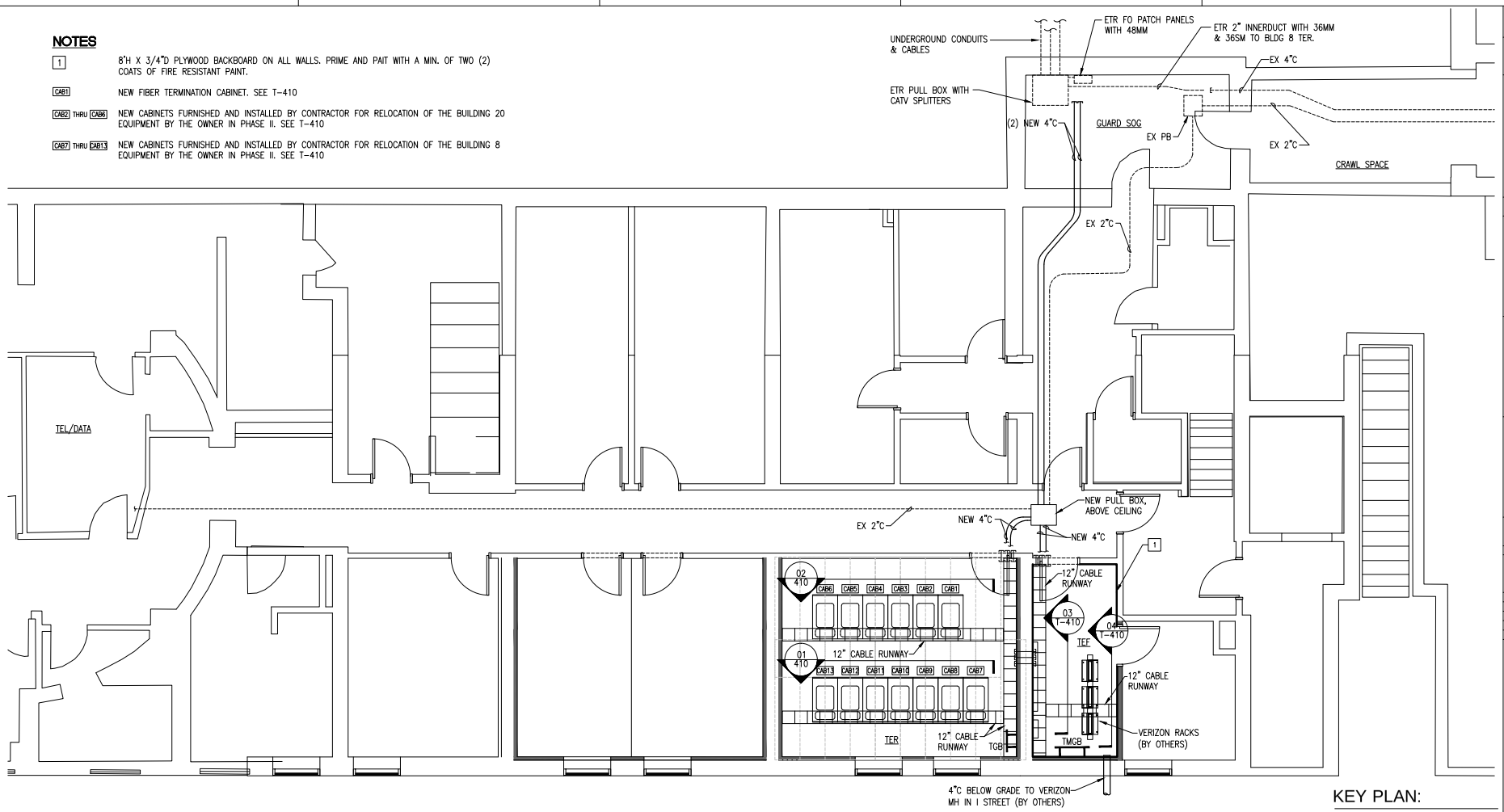
NOTES

1. 8'H X 3/4"D PLYWOOD BACKBOARD ON ALL WALLS. PRIME AND PAIT WITH A MIN. OF TWO (2) COATS OF FIRE RESISTANT PAINT.

CAB1 NEW FIBER TERMINATION CABINET. SEE T-410

CAB2 THRU CAB6 NEW CABINETS FURNISHED AND INSTALLED BY CONTRACTOR FOR RELOCATION OF THE BUILDING 20 EQUIPMENT BY THE OWNER IN PHASE II. SEE T-410

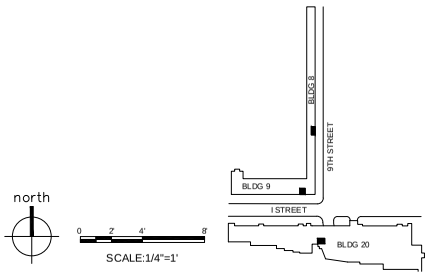
CAB7 THRU CAB13 NEW CABINETS FURNISHED AND INSTALLED BY CONTRACTOR FOR RELOCATION OF THE BUILDING 8 EQUIPMENT BY THE OWNER IN PHASE II. SEE T-410



01 T-340 T-400 **BUILDING 9 NEW TELECOM EQUIPMENT ROOM (TER) AND TELECOM ENTRANCE FACILITY PLANS (TEF) PHASE I**

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

KEY PLAN:



north

0 2' 4' 8'

SCALE:1/4"=1'

DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
PWD/NAVFAC	NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
	9TH ST SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON	MARINE BARRACKS - MBW 8 & 9
	RELOCATION OF COMMUNICATIONS HUB
	WASHINGTON, DC
	BLDG 9 ENLARGED TER & TEF PLANS PHASE I
SCALE	1/4" = 1'-0"
EPROJECT NO.	1321174
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	13079260
SHEET	45 OF 47
	T-400

APPR. DATE DESCRIPTION SYM

SEAL

AJE INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES RA DRW JTA CHK RA

PROJECT MANAGER JHEISLER

IPT TECH. BRANCH HEAD JBLUMENKRANTZ

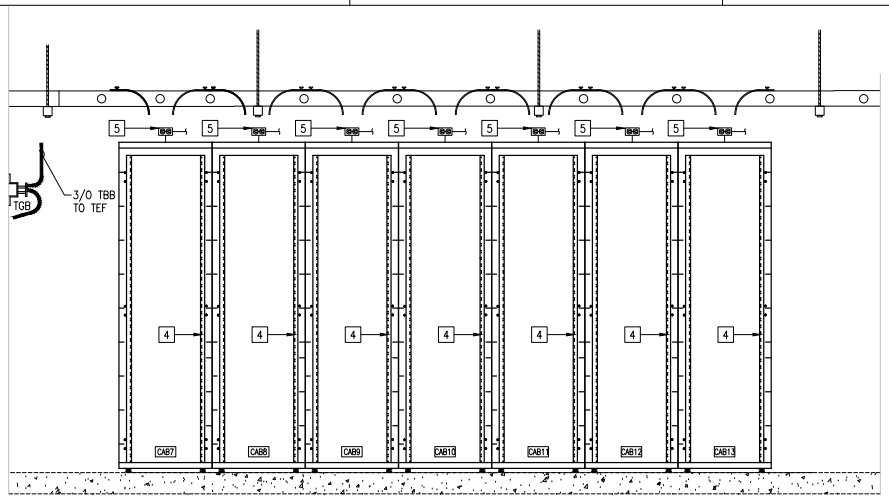
CHIEF ENG ARCH JBLUMENKRANTZ

FILE NAME:

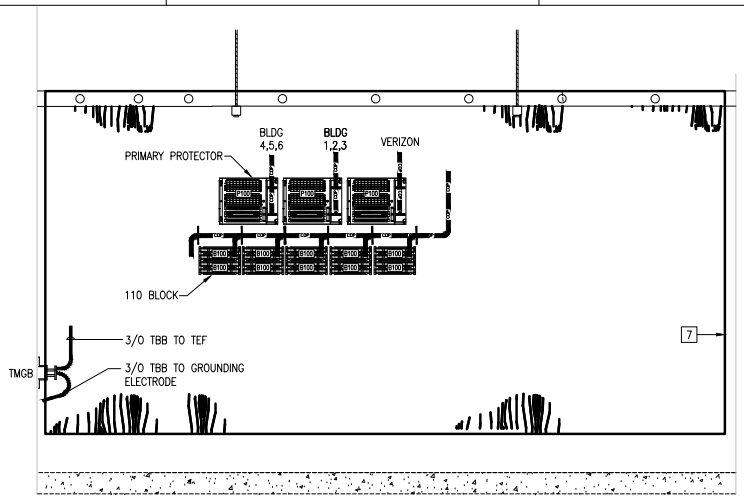
REV/DATE:

DRAWFORM REVISION: 10 MAY 2014

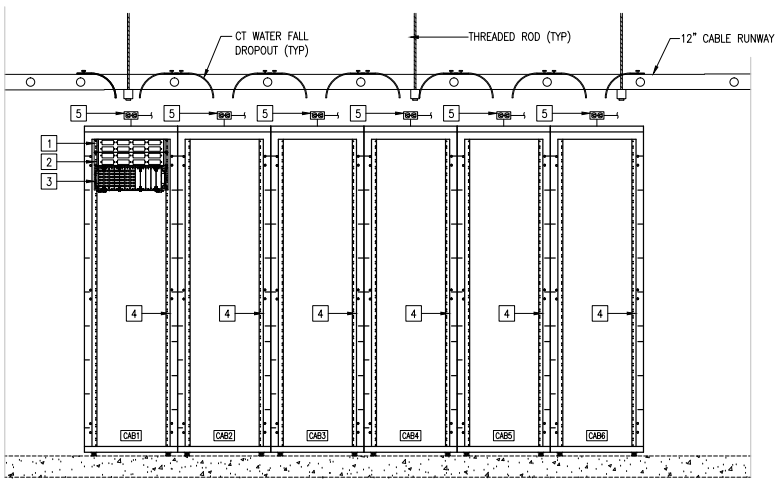
UNCLASSIFIED



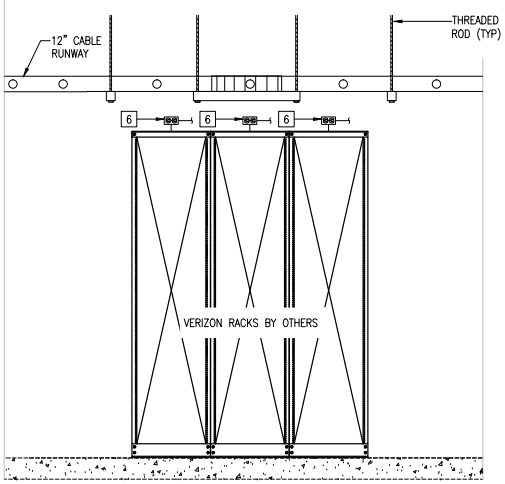
01 T-400 T-410 **BLDG 9 TELECOM EQUIPMENT ROOM (TER) CABINET ELEVATION PHASE I**
SCALE: 3/4" = 1'-0"



03 T-400 T-410 **BLDG 9 TELECOM ENTRANCE FACILITY (TEF) ELEVATION PHASE I**
SCALE: 3/4" = 1'-0"



02 T-400 T-410 **BLDG 9 TELECOM EQUIPMENT ROOM (TER) CABINET ELEVATION PHASE 1**
SCALE: 3/4" = 1'-0"



04 T-400 T-410 **BLDG 9 TELECOM ENTRANCE FACILITY (TEF) VERIZON RACK ELEVATION PHASE 1**
SCALE: 3/4" = 1'-0"

SHEET NOTES

1. NEW 2U FIBER PATCH PANEL WITH SNAP-IN SINGLE MODE DUPLEX SC ADAPTER PLATES. TERMINATE 24SM FROM BLDG 20 TEF.
2. NEW 2U FIBER PATCH PANEL WITH SNAP-IN MULTI-MODE DUPLEX SC ADAPTER PLATES. TERMINATE 48MM FROM BLDG 1,2,3,4,5 & 6.
3. NEW 4U FIBER PATCH PANEL WITH SNAP-IN SINGLE MODE & MULTI-MODE DUPLEX SC ADAPTER PLATES. FOR TERMINATION OF 36SM & 36MM FROM BLDG 1,2,3,4,5,6 IN PHASE II.
4. NEW FREE STANDING 84(H) X 24(W) X 42(D) EQUIPMENT CABINET W/FANS, INTERNAL GROUND BUSBAR, 19" RACKING, TWO LOCKABLE SIDE PANELS, LOCABLE REAR VENTED METAL FULLY HINGED REMOVABLE DOOR, TOP PANEL AND LOCKABLE TRANSLUCENT FULLY HINGED REMOVABLE FRONT DOOR. FULL HIGHT FRONT AND REAR VERTICAL WIRE MANAGEMENT BOTH SIDES, SURGE PROTECTED 6 OUTLET (MIN) VERTICAL POWER STRIP.
5. 208VAC 30 AMP DEDICATED CKT, TWIST LOCK RECEPTACLE, 3-WIRE FROM EMERGENCY GENERATOR UPS 208VAC (NON-SWITCHABLE) TERMINATE IN ELECTRICAL OUTLETS FOR EQUIPMENT POWER, TYPICAL. PLACE ELECTRICAL CIRCUITS IN RIGID, FLEXIBLE, OR COMBINATION CONDUITS. DO NOT USE CABLE TRAY FOR POWER DISTRIBUTION.
6. 208VAC 30 AMP DEDICATED CKT, TWIST LOCK RECEPTACLE, 3-WIRE FROM EMERGENCY GENERATOR (NON-SWITCHABLE) TERMINATE IN ELECTRICAL OUTLETS FOR EQUIPMENT POWER, TYPICAL. PLACE ELECTRICAL CIRCUITS IN RIGID, FLEXIBLE, OR COMBINATION CONDUITS. DO NOT USE CABLE TRAY FOR POWER DISTRIBUTION.
6. 8'H X 3/4"D PLYWOOD BACKBOARD ON ALL WALLS. PRIME AND PAIT WITH A MIN. OF TWO (2) COATS OF FIRE RESISTANT PAINT.

CAB1 NEW FIBER TERMINATION CABINET. SEE T-410

CAB2 THRU CAB6 NEW CABINETS FURNISHED AND INSTALLED BY CONTRACTOR FOR RELOCATION OF THE BUILDING 20 EQUIPMENT BY THE OWNER IN PHASE II. SEE T-410

CAB7 THRU CAB13 NEW CABINETS FURNISHED AND INSTALLED BY CONTRACTOR FOR RELOCATION OF THE BUILDING 8 EQUIPMENT BY THE OWNER IN PHASE II. SEE T-410

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

BICSI RCDD Reza Alipanah Reg. No. 1722620 Expires 12-31-17 SEAL

Wiley/Wilson | Burns McDonnell JOINT VENTURE

AE INFO

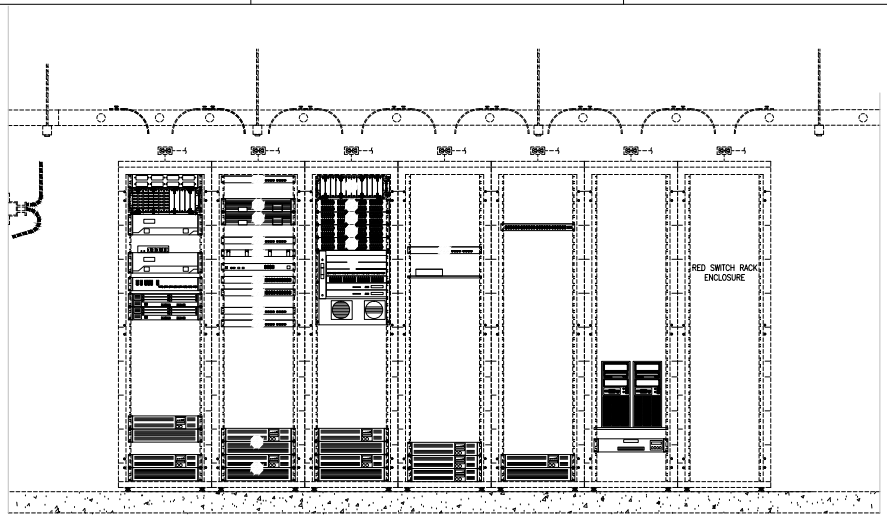
APPROVED
FOR COMMANDER NAVFAC / N.A.
ACTIVITY
NAVFAC WASHINGTON
SATISFACTORY TO DATE 30 JUNE 2016
DES. RA DRW. JTA CHK. RA
PROJECT MANAGER: J.HEISLER
IPT TECH. BRANCH HEAD: J.BLUMENKRANTZ
CHIEF ENG/ARCH: J.BLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD/NAVFAC NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
6TH & S STS. SE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB
WASHINGTON, DC
BLDG 9 TER CABINETS ELEVATION PHASE I

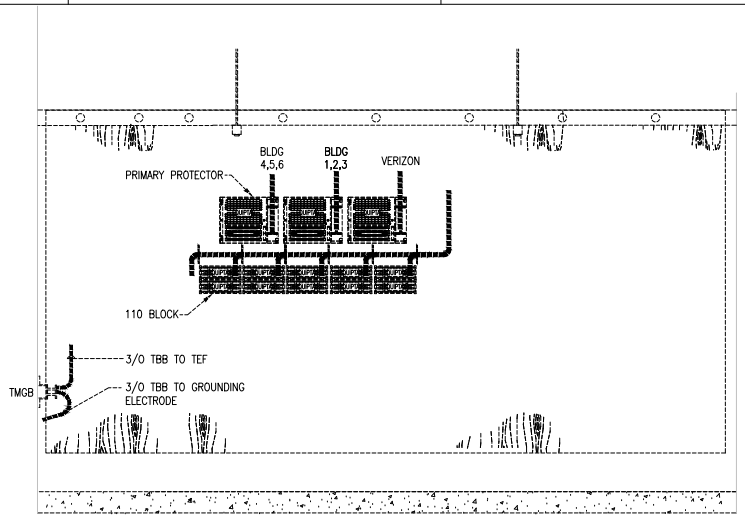
SCALE 3/4" = 1'-0"
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079261
SHEET 46 OF 47
T-410

DRAWFORM REVISION: 10 MAY 2014

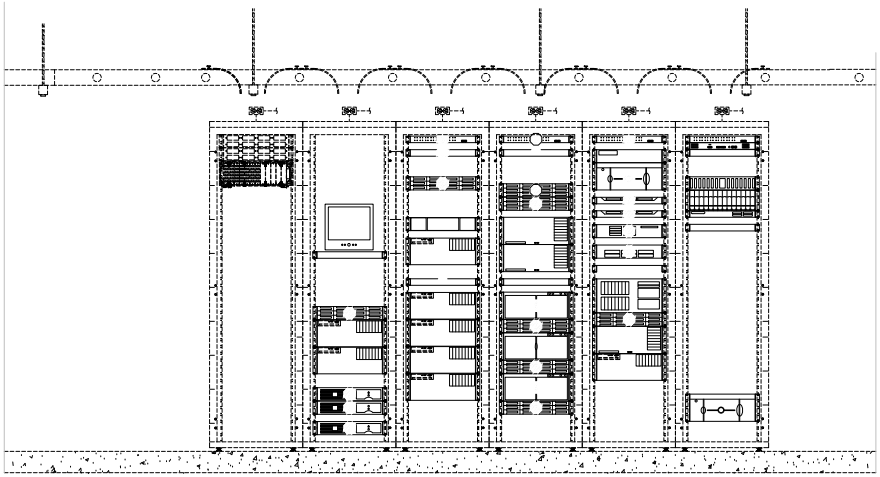
FILE NAME:
REVDATE:



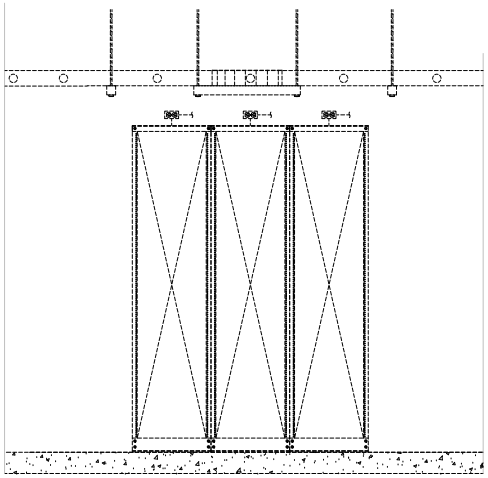
01 T-400 T-420 BLDG 9 TELECOM EQUIPMENT ROOM (TER) CABINET ELEVATION PHASE II
SCALE: 3/4" = 1'-0"



03 T-400 T-420 BLDG 9 TELECOM ENTRANCE FACILITY (TEF) ELEVATION PHASE I
SCALE: 3/4" = 1'-0"



02 T-400 T-420 BLDG 9 TELECOM EQUIPMENT ROOM (TER) CABINET ELEVATION PHASE II
SCALE: 3/4" = 1'-0"



04 T-400 T-420 BLDG 9 TELECOM ENTRANCE FACILITY (TEF) VERIZON RACK ELEVATION PHASE II
SCALE: 3/4" = 1'-0"

GENERAL NOTES

1. PHASE II EQUIPMENT RELOCATION FROM BUILDING 8 AND 20 BY OWNER.

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

Wiley/Wilson | BURNS & MCDONNELL JOINT VENTURE

A/E INFO

APPROVED
FOR COMMANDER NAVFAC / N.A.

ACTIVITY
NAVFAC WASHINGTON

SATISFACTORY TO DATE 30 JUNE 2016

DES. RA	DRW. JTA	CHK. RA

PROJECT MANAGER: J.HESLER
IPT TECH. BRANCH HEAD: J.BLUMENKRANTZ
CHIEF ENG/ARCH: J.BLUMENKRANTZ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD NAVFAC WASHINGTON, DC
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON, DC
6700 LT SEE, WASHINGTON, DC 20390
MARINE BARRACKS WASHINGTON
MARINE BARRACKS - MBW 8 & 9
RELOCATION OF COMMUNICATIONS HUB
BLDG 9 TER CABINETS ELEVATION PHASE II

SCALE 3/4" = 1'-0"
EPROJECT NO. 1321174
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 13079262
SHEET 47 OF 47
T-420

DRAWFORM REVISION: 10 MAY 2014

FILE NAME:
REVDATE: