FIRE ALARM / MASS NOTIFICATION LEGEND

AMP	AMPLIFIER
BATT	SECONDARY POWER SUPPLY (BATTERY)
DH	DOOR HOLD OPEN
FAA	REMOTE ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FTR	FIRE ALARM TRANSMITTER/TRANSCEIVER
F	MANUAL FIRE ALARM PULL STATION
NAC	NOTIFICATION APPLIANCE CIRCUIT BOOSTER POWER SUPPLY
SPD	SURGE PROTECTION DEVICE
VS	TAMPER SWITCH (BY DIVISION 21)
WF	WATER FLOW SWITCH (BY DIVISION 21)
CO	CARBON MONOXIDE DETECTOR
S	IN-DUCT PHOTOELECTRIC SMOKE DETECTOR S = SUPPLY
P	CEILING MOUNTED SMOKE DETECTOR P = PHOTOELECTRIC SB = SOUNDER BASE
S	SPEAKER
	SPEAKER / FIRE ALARM STROBE COMBINATION
	STROBE
	WALL MOUNT STROBE
	HORN / FIRE ALARM STROBE COMBINATION
RTS	REMOTE TEST STATION
AOM	ADDRESSABLE OUTPUT MODULE
AIM	ADDRESSABLE INPUT MODULE
	ANTENNA
	GROUND

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AWG	AMERICAN WIRE GAGE
CD	CANDELA
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
dBA	DECIBEL A-WEIGHTED
FA	FIRE ALARM
FX	FIRE SUPPRESSION
HZ	HERTZ
IAW	IN ACCORDANCE WITH
IDC	INITIATING DEVICE CIRCUIT
LF	LOW FREQUENCY
NAC	NOTIFICATION APPLIANCE CIRCUIT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
SLC	SIGNALING LINE CIRCUIT
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
WP	WEATHERPROOF

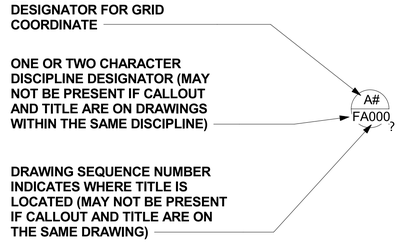
DETAIL/SECTION TITLE

SECTION, DETAIL, AND ELEVATION SYMBOL IDENTIFIERS:

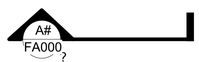
LETTER AND NUMBER DESIGNATOR FOR GRID COORDINATE

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)



SECTION CALLOUT EXAMPLE:



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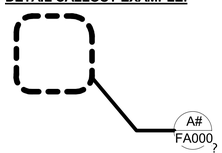

DESIGN CRITERIA:

1. AUDIBLE NOTIFICATION SHALL BE PROVIDED FOR ALL AREAS AND ROOMS THROUGHOUT THE FACILITY. 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 OR NAC BOOSTER PANEL (INCLUSIVE OF SAFETY FACTORS).
2. A SPEAKER IS NOT REQUIRED IN EVERY ROOM; SPEAKER PERFORMANCE MUST ADHERE TO THE SOUND POWER CRITERIA WITHIN THE SPECIFICATIONS, CONTRACT DRAWINGS AND NFPA 72.
3. IN SLEEPING ROOMS SOUND POWER SHALL BE A MINIMUM OF 75 DBA AND 15 DBA OVER THE AMBIENT CONDITIONS MEASURED AT THE PILLOW. THE SMOKE DETECTOR SOUNDER BASES AND PRETONE FOR ALL VOICE MESSAGES SHALL BE A 520 HZ SQUARE WAVE +/- 10%. THE FIRE ALARM SYSTEM SHALL HAVE THE CAPABILITY OF SIMULTANEOUSLY INITIATING VOICE MESSAGES IN THE SLEEPING ROOMS AND IN THE REMAINDER OF THE FACILITY.
4. 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.
5. INTELLIGIBILITY SHALL MEET THE FOLLOWING CRITERIA:
   A. A CIS SCORE OF 0.7 SHALL BE ACHIEVED IN THE MOST REMOTE AREA OF EACH ROOM.
   B. NORMALLY UNOCCUPIED AREAS OF THE BUILDING ARE PERMITTED TO HAVE A CIS SCORE LESS THAN THE MINIMUM REQUIRED VALUE IF OCCUPANTS CAN DETERMINE THAT A VOICE SIGNAL IS BEING BROADCAST AND THEY MUST WALK NO MORE THAN 50 FT TO A LOCATION WITH AT LEAST THE MINIMUM REQUIRED CIS VALUE WITHIN THE SAME AREA.
   C. STORAGE ROOMS, MECHANICAL ROOMS, RISER ROOMS, ELECTRICAL ROOMS, JANITOR ROOMS, AND COMMUNICATION CLOSETS SHALL BE CONSIDERED NORMALLY UNOCCUPIED FOR THE PURPOSE OF INTELLIGIBILITY. ALL OTHER ROOMS SHALL BE CONSIDERED NORMALLY OCCUPIED.
   D. OCCUPANTS SHALL BE ABLE TO DETERMINE THAT A VOICE SIGNAL IS BEING BROADCAST FROM WITHIN LIVING UNIT BATHROOMS WITH THE DOOR CLOSED. INTELLIGIBILITY CRITERIA SHALL BE MET FROM WITHIN LIVING UNIT BATHROOMS WITH THE DOOR OPENED.
6. STROBE SPACING FOR THE FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72.
7. AUDIBLE NOTIFICATION VIA FIRE ALARM SPEAKERS IS REQUIRED WHERE INDICATED ON THE DRAWINGS, REGARDLESS OF WHETHER A SMOKE DETECTOR SOUNDER BASE IS PROVIDED IN THAT PARTICULAR SPACE.

GENERAL FIRE ALARM NOTES:

1. THIS SYSTEM SHALL BE A FIRE ALARM SYSTEM; MASS NOTIFICATION IS NOT REQUIRED.
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, AND 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, WITH 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 THROUGHOUT THE SYSTEM IN RELATION TO DEVICES THEY FEED (E.G. SLC - BLACK/RED, STROBE - YELLOW/BLUE, HORN - BLACK/BROWN). ADDRESSABLE SLC CIRCUITS SHALL BE PROVIDED WITH SHIELDED CONDUCTORS. SHIELDING SHALL BE GROUNDED AT ONE END OF THE CIRCUIT. 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, NAC BOOSTER PANELS, AND TRANSCEIVER PANELS WHICH ARE NOT UL-LISTED AS PART OF THE PANEL IS PROHIBITED.
10. ALL POWER SUPPLIES TO FACP, NAC BOOSTER PANELS, AND TRANSCEIVER PANELS SHALL BE PROVIDED WITH SPD. ALL SLC, NAC, OR IDC CIRCUITS ENTERING OR LEAVING THE BUILDING SHALL BE PROVIDED WITH SPD. EXCEPTION: CIRCUITS TO DEVICES MOUNTED DIRECTLY ON THE EXTERIOR OF THE BUILDING DO NOT REQUIRE SPD (E.G. EXTERIOR ALARM BELL). SPD SHALL BE MOUNTED IN A SEPARATE ENCLOSURE.

APPR | DATE | DESCRIPTION | SYM

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W Dunnfield
FOR COMMANDER NAVFAC / B.L.T.L.

ACTMITY
PER SAT/D DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE	4/20/16				
DES	EJS	DRW	DRR	CHK	BM
PM / DM	MLW/LEJ				
BRANCH MANAGER	DPS				
CHIEF ENG/ARCH	DWG				
FIRE PROTECTION	DPS				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

NEWPORT, RHODE ISLAND

FIRE ALARM SYMBOLS, LEGEND AND ABBREVIATIONS

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719463
SHEET	78 OF 200

FA001

DRAWFORM REVISION: 10 MAY 2014

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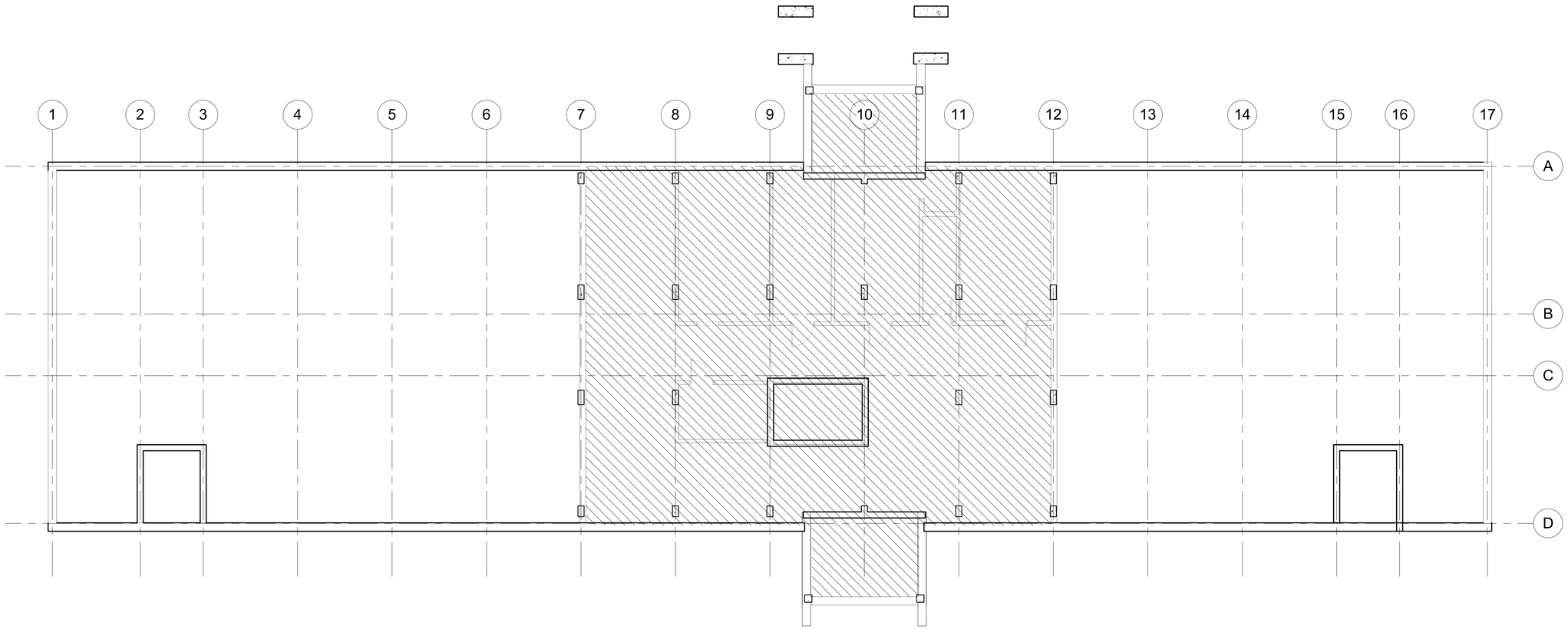

PLAN NORTH

FIRE ALARM BASEMENT DEMOLITION PLAN

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

NOTES:

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

DEMOLITION HATCH LEGEND

REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO DEVICE, CONDUIT, WIRING, HANGERS, ETC.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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A/E INFO

APPROVED
Date Signed: 5/4/16
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES EJS	DRW DRR	CHK BM
PM / DM	MLW/LEJ	
BRANCH MANAGER	DPS	
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE ALARM BASEMENT DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719464
SHEET	79 OF 200

FA100D

DRAW/FORM REVISION: 10 MAY 2014

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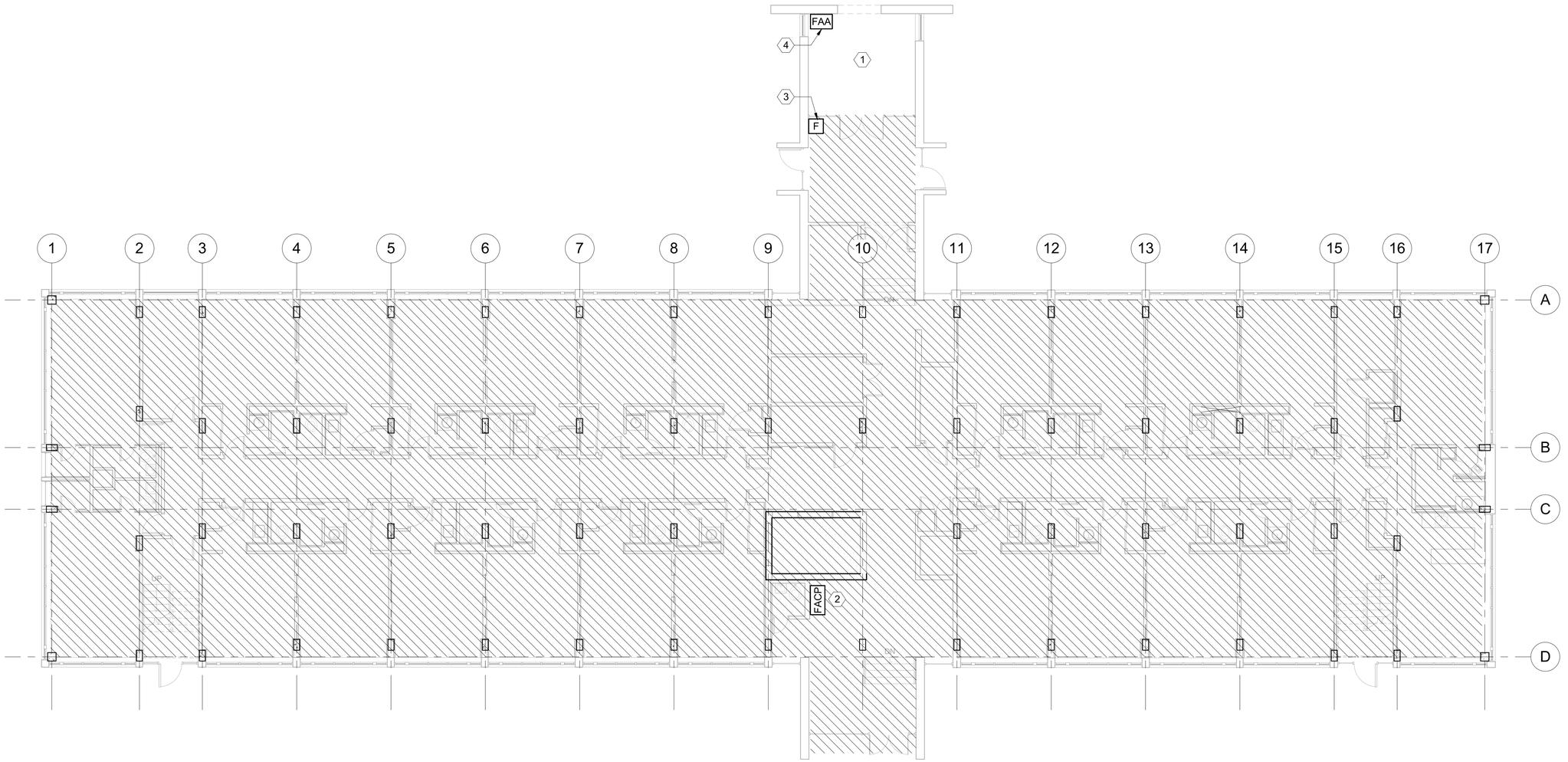

PLAN NORTH

FIRE ALARM LEVEL 1 DEMOLITION PLAN

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

NOTES:

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

DEMOLITION NOTES: (#)

1. EXISTING DEVICES IN THIS AREA ARE ASSOCIATED WITH ADJACENT BUILDING. DO NOT REMOVE OR MODIFY.
2. LOCATION OF EXISTING FIRE ALARM PANEL
3. EXISTING MANUAL FIRE ALARM PULL STATION AND HORN/STROBE TO BE REMOVED. DEVICES ARE PART OF ADJACENT BUILDING 442 SIMPLEX FIRE ALARM SYSTEM. PROVIDE REPGRAMMING OF EXISTING SIMPLEX SYSTEM AS REQUIRED BY REMOVAL OF DEVICES.
4. EXISTING BUILDING 442 REMOTE ANNUNCIATOR TO REMAIN.

DEMOLITION HATCH LEGEND

REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO DEVICE, CONDUIT, WIRING, HANGERS, ETC.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

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ERIC J. SHELTON
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FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT

NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NEWPORT, RHODE ISLAND

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE ALARM LEVEL 1 DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719465
SHEET	80 OF 200

FA101D

DRAWFORM REVISION: 10 MAY 2014

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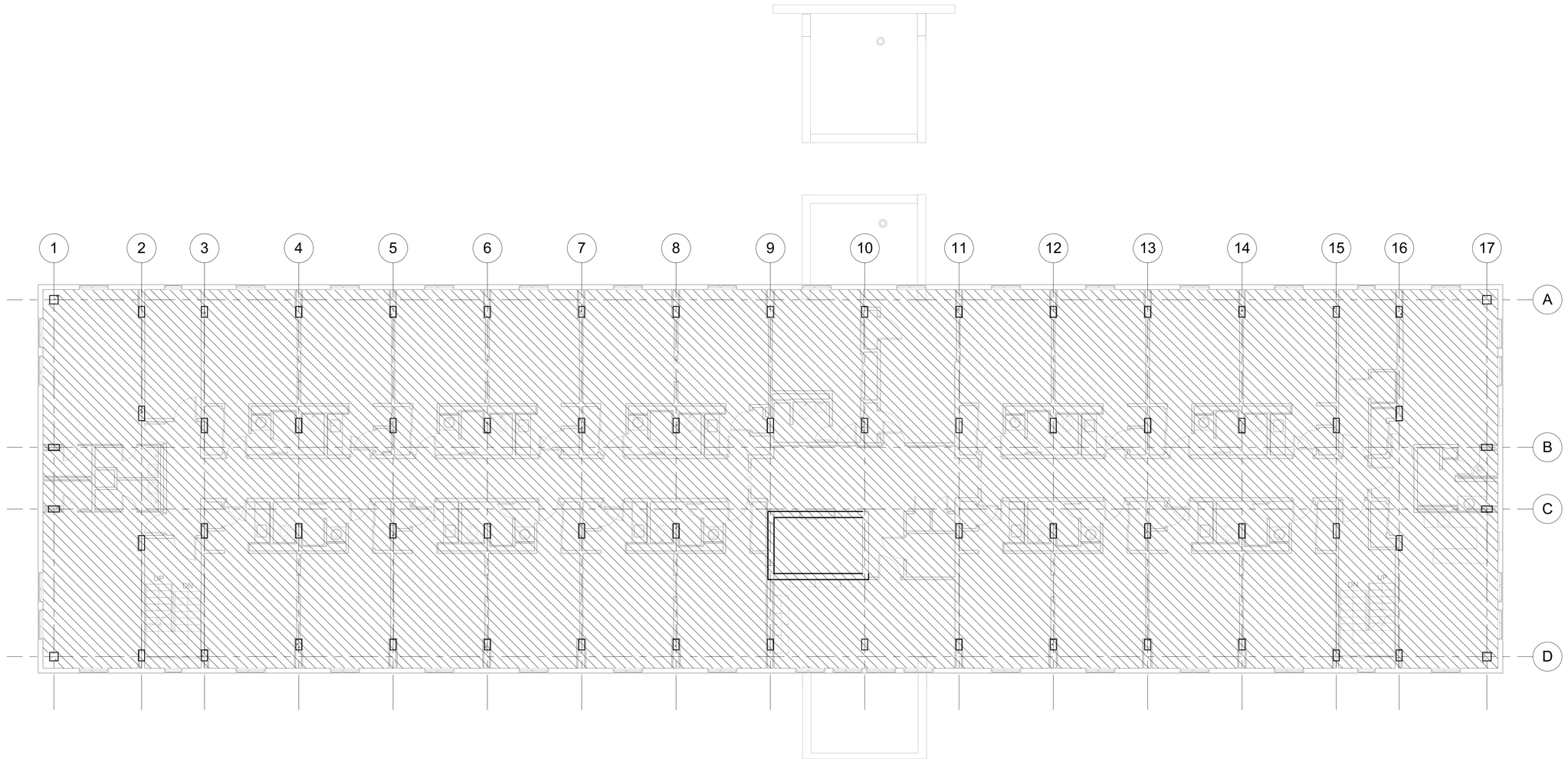

PLAN NORTH

FIRE ALARM LEVEL 2 DEMOLITION PLAN

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

NOTES:

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

DEMOLITION HATCH LEGEND

REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO DEVICE, CONDUIT, WIRING, HANGERS, ETC.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM/BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
NEWPORT, RHODE ISLAND
FIRE ALARM LEVEL 2 DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719466
SHEET	81 OF 200

FA102D

DRAWFORM REVISION: 10 MAY 2014

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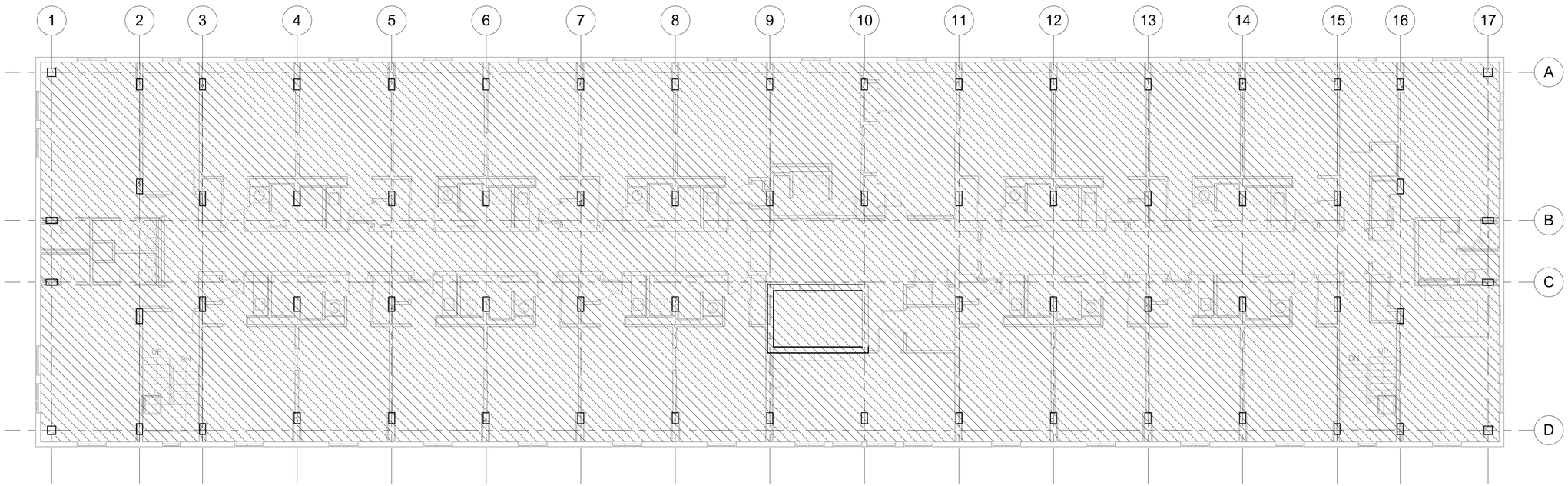

PLAN NORTH

FIRE ALARM LEVEL 3 DEMOLITION PLAN

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

NOTES:

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

DEMOLITION HATCH LEGEND

REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO DEVICE, CONDUIT, WIRING, HANGERS, ETC.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES EJS	DRW DRR	CHK BM
PM / DM	MLW/LEJ	
BRANCH MANAGER	DPS	
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT.

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE ALARM LEVEL 3 DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719467
SHEET	82 OF 200

FA103D

DRAWFORM REVISION: 10 MAY 2014

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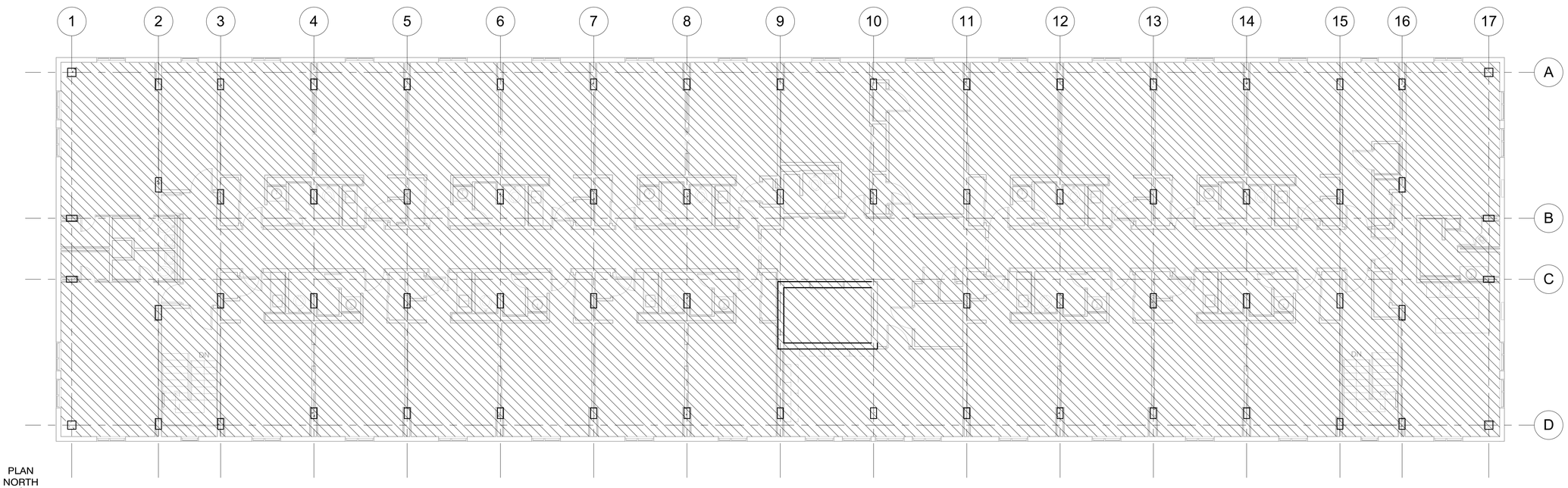

PLAN NORTH

FIRE ALARM LEVEL 4 DEMOLITION PLAN

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

NOTES:

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

DEMOLITION HATCH LEGEND

REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO DEVICE, CONDUIT, WIRING, HANGERS, ETC.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT.
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE ALARM LEVEL 4 DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719468
SHEET	83 OF 200

FA104D

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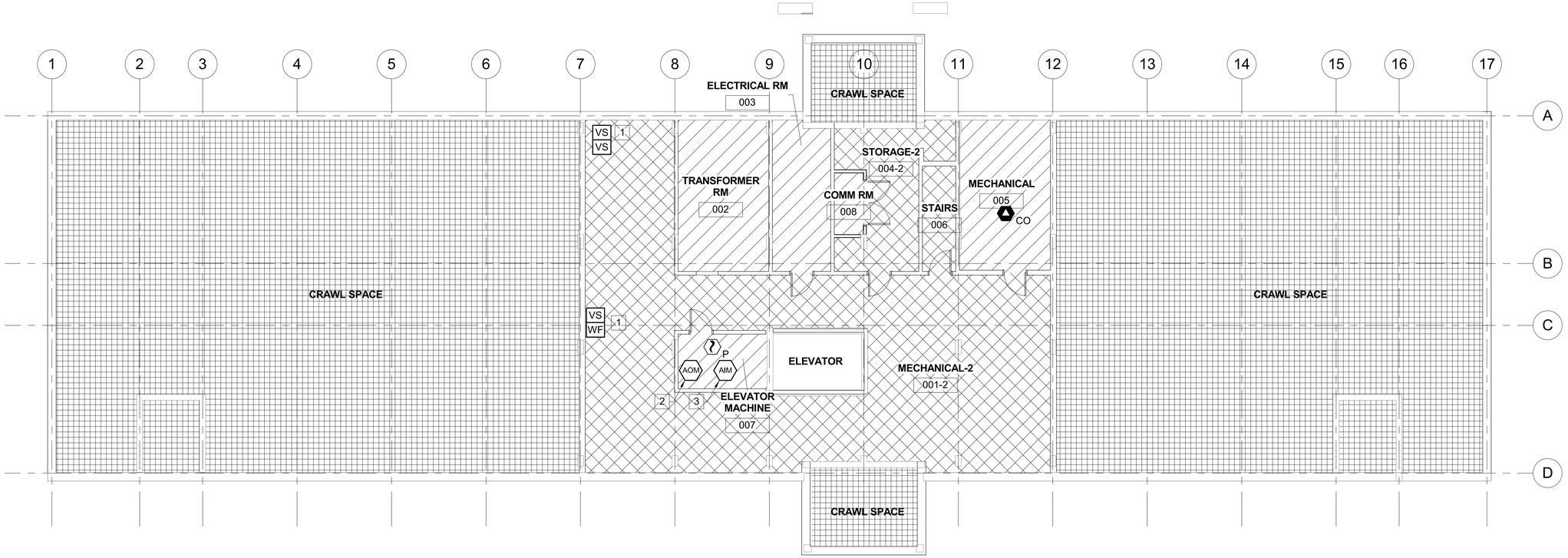


PLAN NORTH

FIRE ALARM BASEMENT FLOOR PLAN

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

NOTES:

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

NEW WORK NOTES:

1. MONITOR VALVE SUPERVISORY AND WATERFLOW. SEE FIRE SUPPRESSION DRAWINGS FOR EXACT QUANTITY AND LOCATION.
2. ADDRESSABLE OUTPUT MODULES FOR ELEVATOR RECALL AND SHUNT TRIP.
3. ADDRESSABLE INPUT MODULE TO MONITOR ELEVATOR SHUNT TRIP POWER.

FIRE ALARM HATCH LEGEND

NOTIFICATION APPLIANCES ARE NOT REQUIRED

PROVIDE SPEAKERS AND STROBES THROUGHOUT AREA TO ACHIEVE DESIGN CRITERIA

PROVIDE SPEAKERS AS REQUIRED TO ACHIEVE DESIGN CRITERIA.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

APPR	DATE	SYM	DESCRIPTION

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT.
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE ALARM BASEMENT FLOOR PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719469
SHEET	84 OF 200

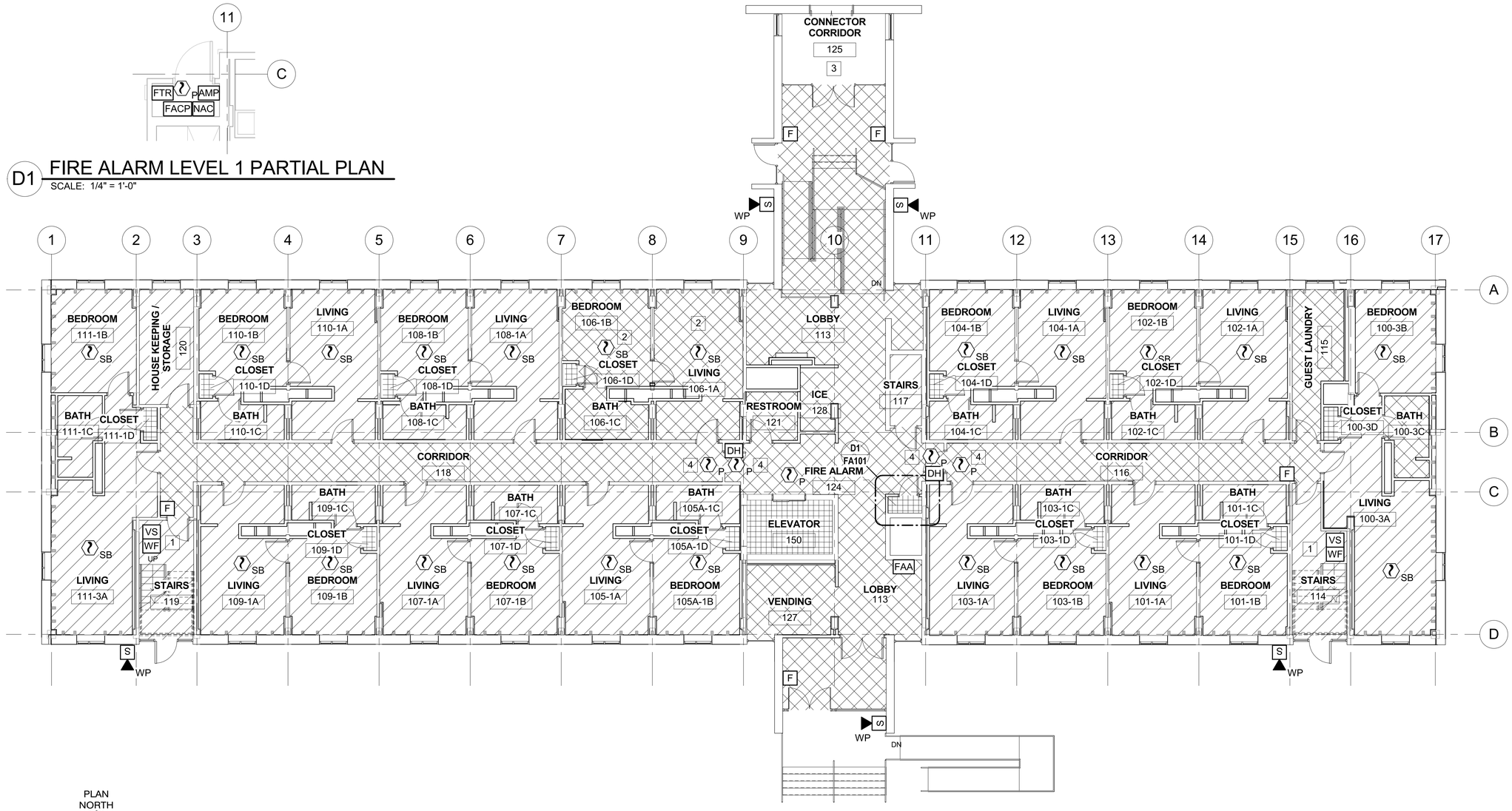
FA100

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_ejshelton.rvt
REVDATE: 4/29/2016 2:20:45 PM

D1 FIRE ALARM LEVEL 1 PARTIAL PLAN

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



PLAN NORTH

FIRE ALARM LEVEL 1 FLOOR PLAN

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

NOTES:

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

NEW WORK NOTES:

1. MONITOR VALVE SUPERVISORY AND WATERFLOW. SEE FIRE SUPPRESSION DRAWINGS FOR EXACT QUANTITY AND LOCATION.
2. PROVIDE 177 CD STROBES SPACED ALONG WALLS PER NFPA 72.
3. AREA PART OF ADJACENT BUILDING FIRE ALARM SYSTEM.
4. SMOKE DETECTOR FOR DOOR CLOSURE.

FIRE ALARM HATCH LEGEND

- NOTIFICATION APPLIANCES ARE NOT REQUIRED
- PROVIDE SPEAKERS AND STROBES THROUGHOUT AREA TO ACHIEVE DESIGN CRITERIA
- PROVIDE SPEAKERS AS REQUIRED TO ACHIEVE DESIGN CRITERIA.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT/NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG:		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NORTH IPT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE ALARM LEVEL 1 FLOOR PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719470
SHEET	85 OF 200

FA101

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBld\g172Models\MEP\86232_F_ejshelton.rvt
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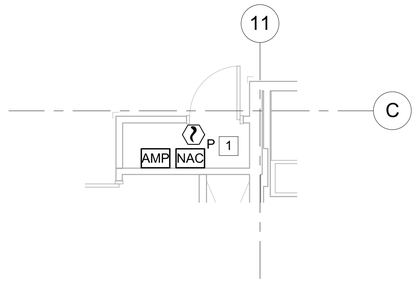
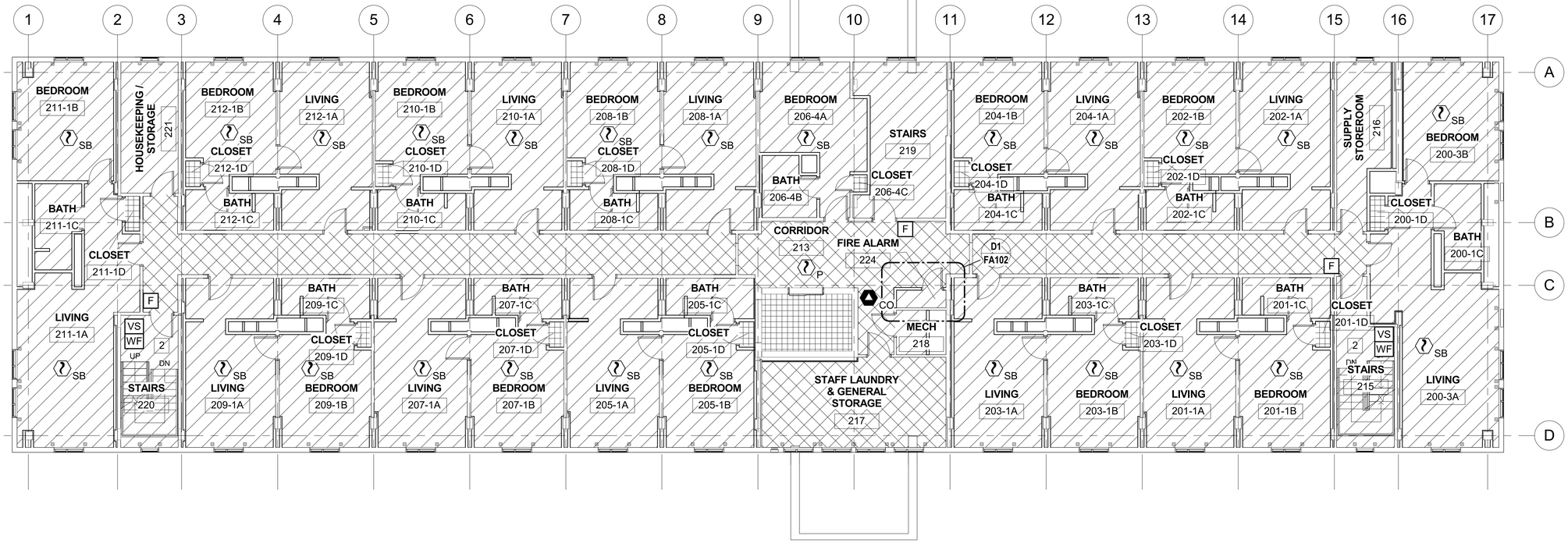


D1 FIRE ALARM LEVEL 2 PARTIAL PLAN

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



PLAN NORTH

FIRE ALARM LEVEL 2 FLOOR PLAN

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

NOTES:

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

NEW WORK NOTES:

1. ADDITIONAL NAC PANELS LOCATED HERE PER CONTRACTORS DESIGN. SMOKE DETECTION REQUIRED IF PANELS ARE PRESENT.
2. MONITOR VALVE SUPERVISORY AND WATERFLOW. SEE FIRE SUPPRESSION DRAWINGS FOR EXACT QUANTITY AND LOCATION.

FIRE ALARM HATCH LEGEND

- NOTIFICATION APPLIANCES ARE NOT REQUIRED
- PROVIDE SPEAKERS AND STROBES THROUGHOUT AREA TO ACHIEVE DESIGN CRITERIA
- PROVIDE SPEAKERS AS REQUIRED TO ACHIEVE DESIGN CRITERIA.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

APPR	DATE	SYM	DESCRIPTION

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
DEPARTMENT HEAD
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT/NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES EJS	DRW DRR	CHK BM
PM / DM	MLW/LEJ	
BRANCH MANAGER	DPS	
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NORTH IPT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE ALARM LEVEL 2 FLOOR PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719471
SHEET	86 OF 200

FA102

DRAWFORM REVISION: 10 MAY 2014

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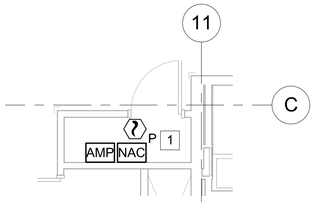
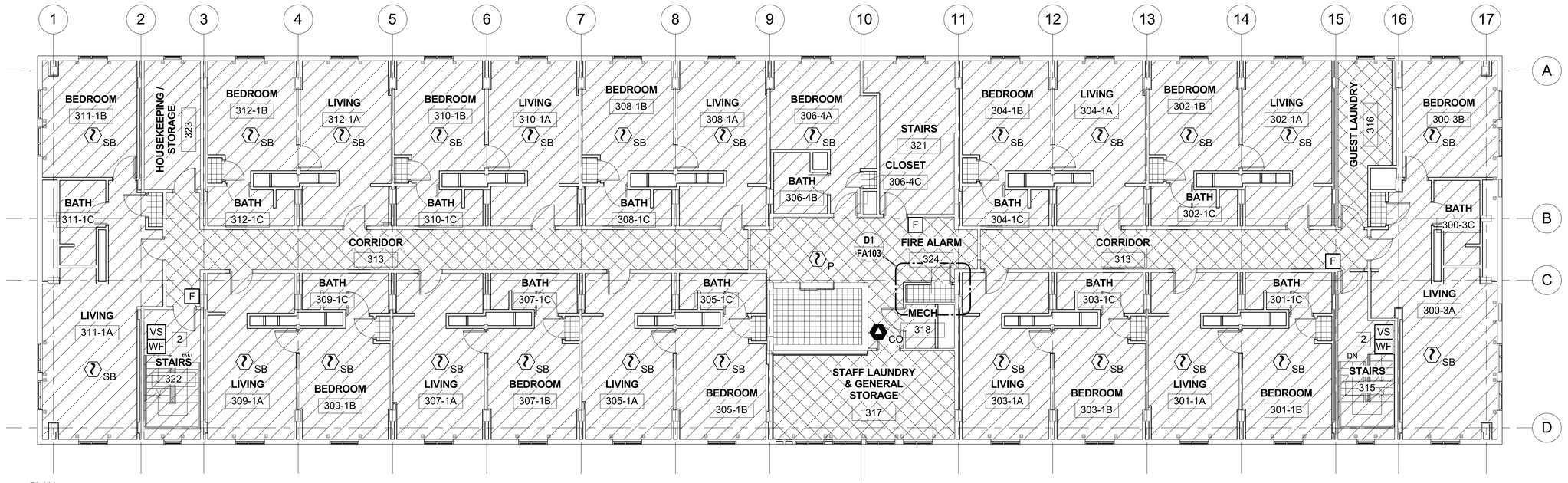


D1 FIRE ALARM LEVEL 3 PARTIAL PLAN

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



PLAN NORTH

FIRE ALARM LEVEL 3 FLOOR PLAN

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

NOTES:

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

NEW WORK NOTES:

1. ADDITIONAL NAC PANELS LOCATED HERE PER CONTRACTORS DESIGN. SMOKE DETECTION REQUIRED IF PANELS ARE PRESENT.
2. MONITOR VALVE SUPERVISORY AND WATERFLOW. SEE FIRE SUPPRESSION DRAWINGS FOR EXACT QUANTITY AND LOCATION.

FIRE ALARM HATCH LEGEND

- NOTIFICATION APPLIANCES ARE NOT REQUIRED
- PROVIDE SPEAKERS AND STROBES THROUGHOUT AREA TO ACHIEVE DESIGN CRITERIA
- PROVIDE SPEAKERS AS REQUIRED TO ACHIEVE DESIGN CRITERIA.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

APPR | DATE | DESCRIPTION | SYM

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320

A/E INFO

APPROVED
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM/BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES EJS	DRW DRR	CHK BM
PM / DM	MLW/LEJ	
BRANCH MANAGER	DPS	
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE ALARM LEVEL 3 FLOOR PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719472
SHEET	87 OF 200

FA103

DRAWFORM REVISION: 10 MAY 2014

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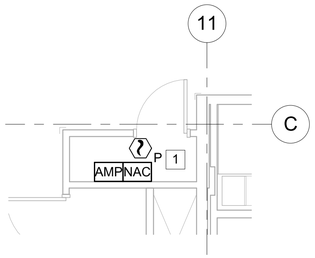
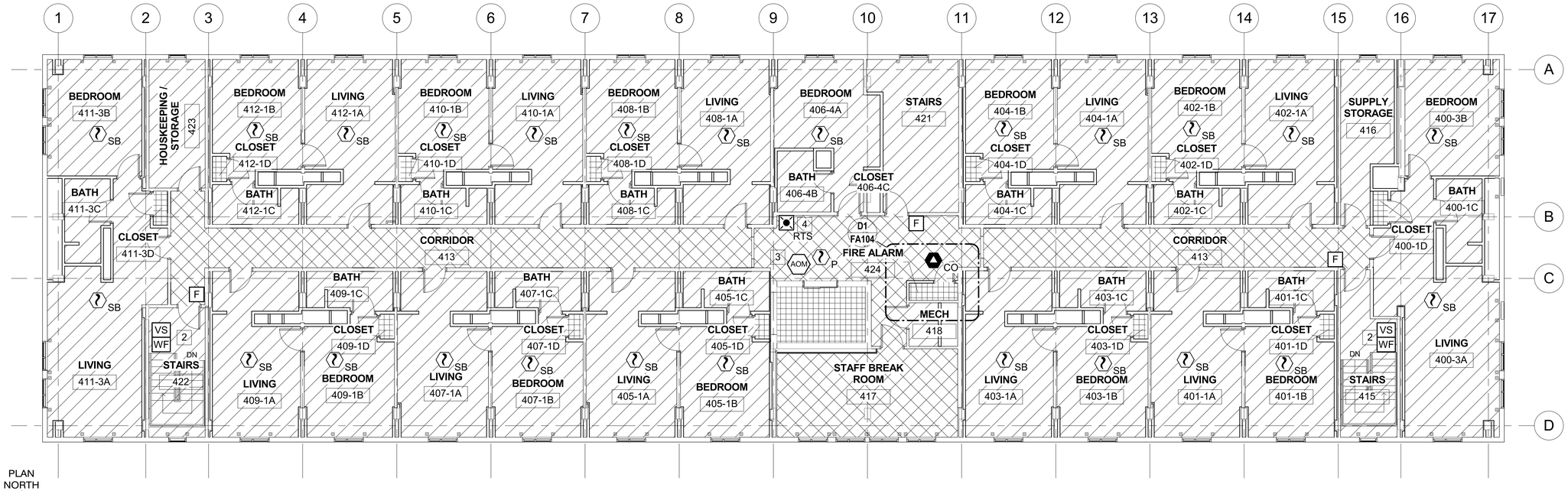


D1 FIRE ALARM LEVEL 4 PARTIAL PLAN

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



PLAN NORTH

FIRE ALARM LEVEL 4 FLOOR PLAN

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

NOTES:

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

NEW WORK NOTES:

1. ADDITIONAL NAC PANELS LOCATED HERE PER CONTRACTORS DESIGN. SMOKE DETECTION REQUIRED IF PANELS ARE PRESENT.
2. MONITOR VALVE SUPERVISORY AND WATERFLOW. SEE FIRE SUPPRESSION DRAWINGS FOR EXACT QUANTITY AND LOCATION.
3. ADDRESSABLE OUTPUT MODULE FOR ELEVATOR HOISTWAY VENT DAMPER CONTROL.
4. REMOTE TEST STATION FOR DOAS-1 DUCT SMOKE DETECTOR. PROVIDE DUCT SMOKE DETECTOR FOR DOAS-1.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Dunnfield
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM/BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT, NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NORTH IPT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE ALARM LEVEL 4 FLOOR PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719473
SHEET	88 OF 200

FA104

DRAWFORM REVISION: 10 MAY 2014

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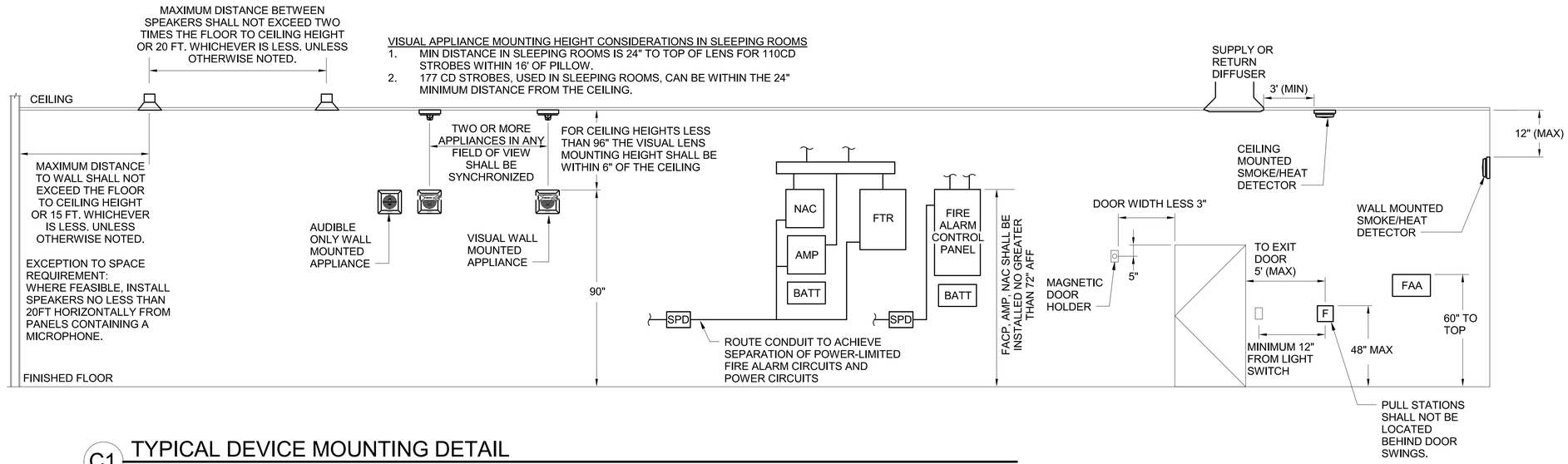

C1 TYPICAL DEVICE MOUNTING DETAIL

SCALE: N.T.S.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Dunfield
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES EJS	DRW DRR	CHK BM
PM / DM	MLW/LEJ	
BRANCH MANAGER	DPS	
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT.
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE ALARM DETAILS

SCALE: AS NOTED
EPROJECT NO. 13770079
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12719474
SHEET 89 OF 200
FA501

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_ejshelton.rvt
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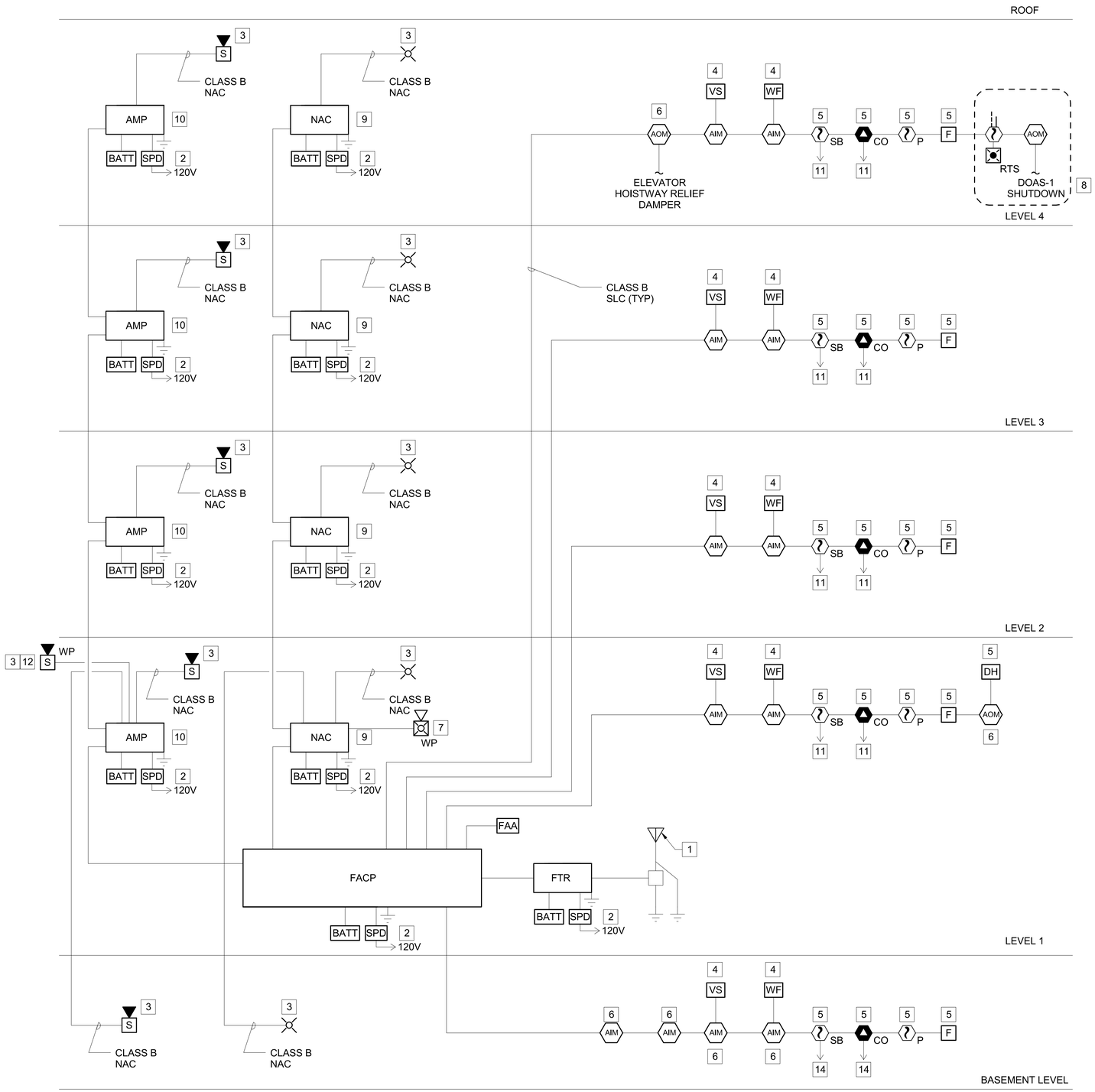

A1 FIRE ALARM RISER
SCALE: NOT TO SCALE

GENERAL 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, UFC 4-021-01 AND CONTRACT DOCUMENTS.
3. EACH FLOW AND TAMPER SWITCH SHALL REPORT BACK TO THE FIRE ALARM CONTROL PANEL WITH A SEPARATE ADDRESS. GROUPED SWITCHES ON ONE ADDRESS ARE NOT ACCEPTABLE.
4. 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.
5. WHERE MULTIPLE NOTIFICATION DEVICES ARE IN THE SAME LOCATION A COMBINED DEVICE MAY BE USED.

NEW WORK NOTES:

1. MOUNT RADIO TRANSCEIVER ANTENNA PER MANUFACTURERS RECOMMENDATION. PROVIDE #6 BARE COPPER TO 3/4" X 10'-0" COPPER CLAD GROUND ROD AND TO BUILDING COUNTERPOISE, AND LIGHTNING ARRESTOR KIT.
2. CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM."
3. QUANTITY AND LOCATION BY CONTRACTOR'S DESIGN TO MEET DESIGN CRITERIA.
4. REFER TO FIRE SUPPRESSION DRAWINGS FOR QUANTITY AND / OR LOCATIONS OF DEVICE(S).
5. REFER TO FIRE ALARM PLANS FOR QUANTITY AND / OR LOCATIONS OF DEVICE(S).
6. PROVIDE ADDRESSABLE INPUT AND OUTPUT MODULE(S) AS REQUIRED TO ACHIEVE THE FUNCTIONALITY INDICATED IN THE FIRE ALARM MATRIX.
7. EXTERIOR HORN/STROBE OVER FDC.
8. PROVIDE SUPPLY DUCT SMOKE DETECTORS AND DIRECT SHUT DOWN FOR THE FOLLOWING UNITS: DOAS-1. SEE MECHANICAL SHEETS.
9. ADDITIONAL BOOSTER PANELS SHALL BE PROVIDED AS REQUIRED PER CONTRACTOR'S DESIGN. WHERE ADDITIONAL BOOSTER PANELS ARE REQUIRED, THEY SHALL BE LOCATED AS INDICATED ON PLAN.
10. ADDITIONAL AMPLIFIERS SHALL BE PROVIDED AS REQUIRED PER CONTRACTOR'S DESIGN. WHERE ADDITIONAL AMPLIFIER PANELS ARE REQUIRED, THEY SHALL BE LOCATED AS INDICATED ON PLAN.
11. PROVIDE POWER FROM FIRE ALARM SYSTEM AS REQUIRED BY DEVICES PROVIDED.
12. EXTERIOR SPEAKERS

APPR | DATE | SYM | DESCRIPTION

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320

A/E INFO

APPROVED
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	PO
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NORTH IPT
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE ALARM RISER

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719475
SHEET	90 OF 200

FA601

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_ejshelton.rvt
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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	AUDIO-VISUAL CARBON MONOXIDE INDICATION BY DEVICE	FIRE ALARM SIGNAL TO SUPERVISING STATION (NOTE 1)	GUEST ROOM/SUITE SUPERVISORY SIGNAL TO SUPERVISING STATION	COMMON TROUBLE SIGNAL TO SUPERVISING STATION	COMMON SUPERVISORY SIGNAL TO SUPERVISING STATION	ACTIVATE SPEAKERS AND STROBES - FIRE ALARM TONE AND MESSAGE	ACTIVATE SPEAKERS AND STROBES - CARBON MONOXIDE TONE AND MESSAGE	ACTIVATE AUDIBLE BASES THROUGHOUT AFFECTED GUEST ROOM / SUITE	ACTIVATE EXTERIOR SPRINKLER WATERFLOW ALARM	SHUT-DOWN ASSOCIATED AIR HANDLING EQUIPMENT	RECALL ELEVATOR TO LEVEL 2	RECALL ELEVATOR TO LEVEL 1	INTERMITTENT ELEVATOR RED HAT	SOLID ELEVATOR RED HAT	INITIATE ELEVATOR SHUNT TRIP	RELEASE DOOR HOLDERS	OPEN ELEVATOR HOISTWAY RELIEF DAMPER (NOTE 2)
MANUAL FIRE ALARM STATIONS	X				X				X											X
SMOKE DETECTOR OVER FACP, AMPS AND NAC PANELS	X				X				X											X
FLOW SWITCHES - WET-PIPE SYSTEM	X				X				X			X								X
FLOW SWITCHES - ELEVATOR MACHINE ROOM	X				X				X			X						X		X
CARBON MONOXIDE DETECTOR				X	X					X										
SMOKE DETECTOR ELEVATOR LOBBY LEVEL 1	X				X				X					X			X			X
SMOKE DETECTOR ELEVATOR LOBBY LEVEL 2	X				X				X						X		X			X
SMOKE DETECTOR ELEVATOR LOBBY LEVEL 3	X				X				X						X		X			X
SMOKE DETECTOR ELEVATOR LOBBY LEVEL 4	X				X				X						X		X			X
SMOKE DETECTOR ELEVATOR MACHINE ROOM	X				X				X						X	X				X
SMOKE DETECTORS AT HELD-OPEN DOORS	X				X				X										X	X
IN-DUCT SMOKE DETECTORS	X				X				X				X							X
TROUBLE CONDITIONS																				
AC POWER FAILURE		X					X												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																				
SPRINKLER VALVE TAMPER SWITCH			X					X												
COMPONENT COMMON SUPERVISORY			X					X												
SMOKE DETECTORS IN DWELLING UNITS/SUITES			X			X					X									

NOTES:
1. TRANSMIT DISCRETE SIGNAL, BY CATEGORY, FOR SPRINKLER WATER FLOW, MANUAL PULL STATION, SPOT SMOKE DETECTOR, AND CARBON MONOXIDE DETECTOR.
2. PROVIDE MANUAL CONTROL OF ELEVATOR HOISTWAY DAMPER AT FIRE ALARM PANEL.

NAVFAC
COMMONWEALTH OF VIRGINIA
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SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES EJS	DRW DRR	CHK PO
PM / DM	MLW/EJ	
BRANCH MANAGER	DPS	
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE ALARM MATRIX

SCALE: AS NOTED
EPROJECT NO. 13770079
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12719476
SHEET 91 OF 200

FA602

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_ejshelton.rvt
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FIRE SUPPRESSION LEGEND

- OUTSIDE SCREW AND YOKE VALVE (OS&Y)
- VALVE
- INDICATING BUTTERFLY VALVE
- DOUBLE CHECK BACKFLOW PREVENTOR
- ALARM CHECK VALVE
- FLOW TEST HEADER
- CHECKVALVE
- PIPE CAP
- AUTOMATIC DRAIN VALVE
- FIRE DEPARTMENT CONNECTION
- PRESSURE GAUGE
- FLOW SWITCH
- THRUST BLOCK
- RISER LOCATION
- AUTOMATIC AIR RELEASE VALVE
- ANGLE VALVE

PIPING SYMBOLS

- DRAIN PIPING
- FS — WET SPRINKLER 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
BFP	BACKFLOW PREVENTER
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FL	FIRE LINE
FHV	FIRE HOSE VALVE
FP	FIRE PROTECTION
FM	FIRE MAIN
GFE	GOVERNMENT FURNISHED EQUIPMENT
(M)	MECHANICALLY SUPERVISED
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
RN	RISER NIPPLE
(S)	ELECTRICALLY SUPERVISED
SPR	SPRINKLER PIPE
SQ FT	SQUARE FOOT

DETAIL/SECTION TITLE

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#
FA000?

SECTION CALLOUT EXAMPLE:

A#
FA000?

DETAIL CALLOUT EXAMPLE:

A#
FA000?

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.

   FOR INFORMATION ONLY: FLOW TEST 1

DATE	07/29/2015
STATIC	98 PSI
RESIDUAL	50 PSI
FLOW	881 GPM

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 THE STATE OF RHODE ISLAND. SYSTEM DESIGN SHALL BE BY, OR UNDER THE SUPERVISION OF, A NICET LEVEL III (MINIMUM) TECHNICIAN CERTIFIED IN AUTOMATIC SPRINKLER SYSTEMS, OR BY A LICENSED PROFESSIONAL ENGINEER HAVING PASSED THE NCEES EXAMINATION IN FIRE PROTECTION ENGINEERING.
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 SHALL BE BLACK STEEL EXCEPT CPVC SHALL BE PERMITTED WHERE PROTECTED IN ACCORDANCE WITH ITS LISTING. PIPING MATERIAL PRIOR TO THE BACKFLOW REVENTER SHALL BE SUITABLE FOR USE IN POTABLE WATER SYSTEMS IN COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE & LOCAL JURISDICTION.

FIRE SUPPRESSION GENERAL NOTES

1. PROVIDE ALL NECESSARY COMPONENTS FOR A WET-PIPE SYSTEM THROUGHOUT ALL AREAS. 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. THE FIRE WATER SUPPLY FOR THE FIRE SUPPRESSION SYSTEMS SHALL BE FED FROM THE BASE DOMESTIC/FIRE PROTECTION WATER SYSTEM.
3. 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.
4. 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.
5. 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.
6. THE FIRE PROTECTION CONTRACTOR AWARDED THIS PROJECT SHALL BE REQUIRED TO PERFORM A HYDRANT FLOW TEST IN ACCORDANCE WITH NFPA 291 ON SITE AND SHALL BASE ALL HYDRAULIC CALCULATIONS ON THE CONTRACTOR'S FLOW TEST. THE FIRE PROTECTION CONTRACTOR SHALL NOT USE THE PRELIMINARY FLOW TEST RESULTS STATED ABOVE FOR HYDRAULIC CALCULATIONS. THE FIRE PROTECTION CONTRACTOR SHALL SUPPLY CALCULATIONS UP TO THE PRESSURE HYDRANT.
7. ALL DRAIN PENETRATIONS THRU EXTERIOR WALL SHALL BE NO GREATER THAN 2'-0" ABOVE FINISHED GRADE
8. INSTALL FIRE PROTECTION PIPE HANGERS PER THE FOLLOWING LIMITATIONS:
   A) THE SINGLE POINT DEAD LOAD APPLIED TO ANY STRUCTURAL MEMBER SHALL NOT EXCEED 300 LBS. PROVIDE TRAPEZE HANGERS TO DISTRIBUTE THE LOAD BETWEEN STRUCTURAL MEMBERS WHERE A SINGLE HANGER EXCEEDS THE LIMITATIONS.
9. 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				NOTES
							TEMP RATING	TYPE	K-FACTOR	FINISH	
NO HATCH	RESIDENTIAL	WET	0.10	4 HEADS	PER LISTING	100	ORDINARY	RESIDENTIAL	5.6 (NOMINAL)	CHROME	3
	HC-1	WET	0.10	1500	225	250	ORDINARY	QUICK RESPONSE	5.6 OR 8.0	CHROME	1, 2, 3
	HC-2	WET	0.20	2500	130	250	ORDINARY	QUICK RESPONSE	8.0	CHROME	1, 2, 3

NOTE 1: PROVIDE 200ºF RATED SPRINKLERS IN MECHANICAL AND COMMUNICATION ROOMS.
NOTE 2: WHERE CEILINGS ARE NOT PROVIDED USE BRASS, UPRIGHT HEADS.
NOTE 3: WHERE CEILINGS ARE PRESENT USE CHROME, QUICK RESPONSE, SEMI-RECESSED HEADS.

APPR | DATE | SYM | DESCRIPTION

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Dunnfield
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT,NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES EJS	DRW DRR	CHK BM
PM / DM	MLW/LEJ	
BRANCH MANAGER	DPS	
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE SUPPRESSION NOTES, LEGEND AND ABBREVIATIONS

SCALE: AS NOTED
EPROJECT NO. 13770079
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12719477
SHEET 92 OF 200

FX001

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_ejshelton.rvt
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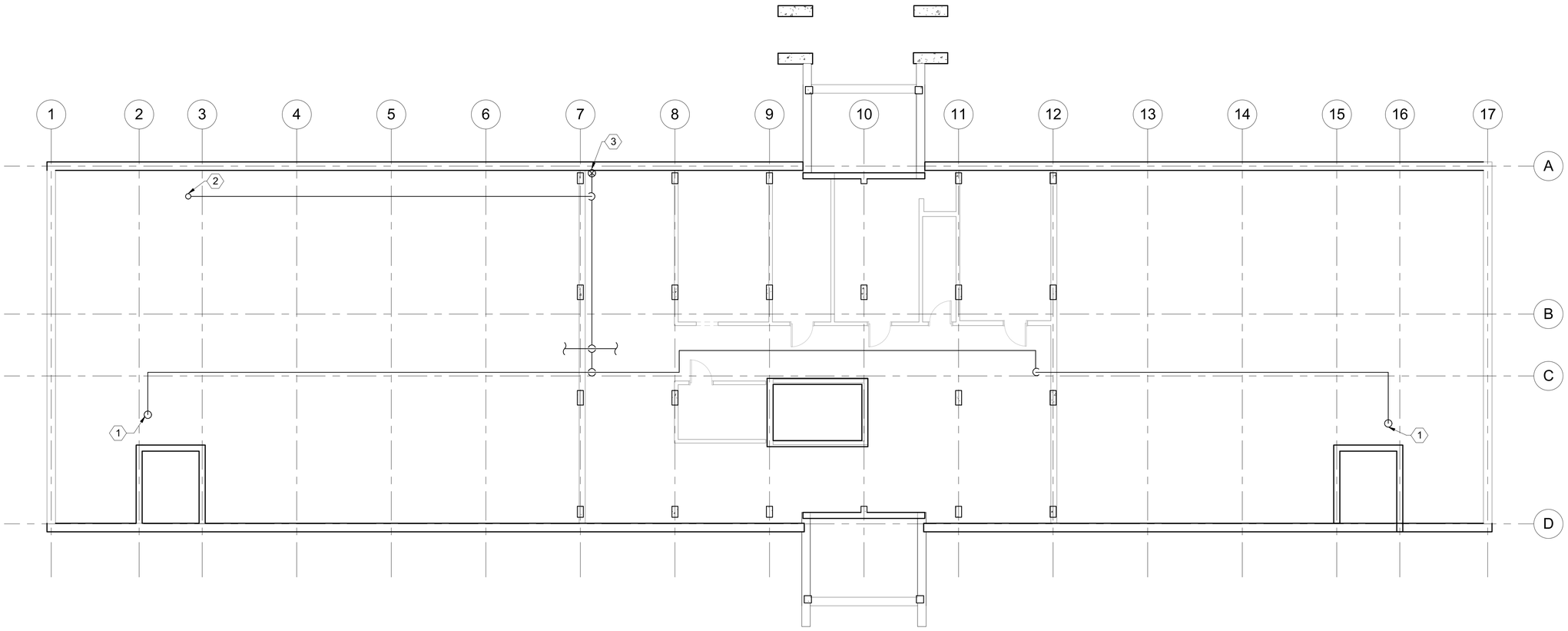

PLAN NORTH

FIRE SUPPRESSION BASEMENT DEMOLITION PLAN

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

NOTES:

1. REFER TO FA001 FOR GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND SYMBOLS.
2. ALL PIPING THIS SHEET IS TO REMAIN UNLESS NOTED OTHERWISE.

DEMOLITION NOTES: (1)

1. UP TO EXISTING STANDPIPE.
2. UP TO EXISTING FDC.
3. REMOVE EXISTING ALARM CHECK VALVE AND ALL ASSOCIATED TRIM PIPING.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

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COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
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David W. Dunnfield
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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT,NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM

PM / DM	MLW/LEJ
BRANCH MANAGER	DPS
CHIEF ENG/ARCH	DWG
FIRE PROTECTION	DPS

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NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE SUPPRESSION BASEMENT DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719478
SHEET	93 OF 200

FX100D

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_sjshelton.rvt
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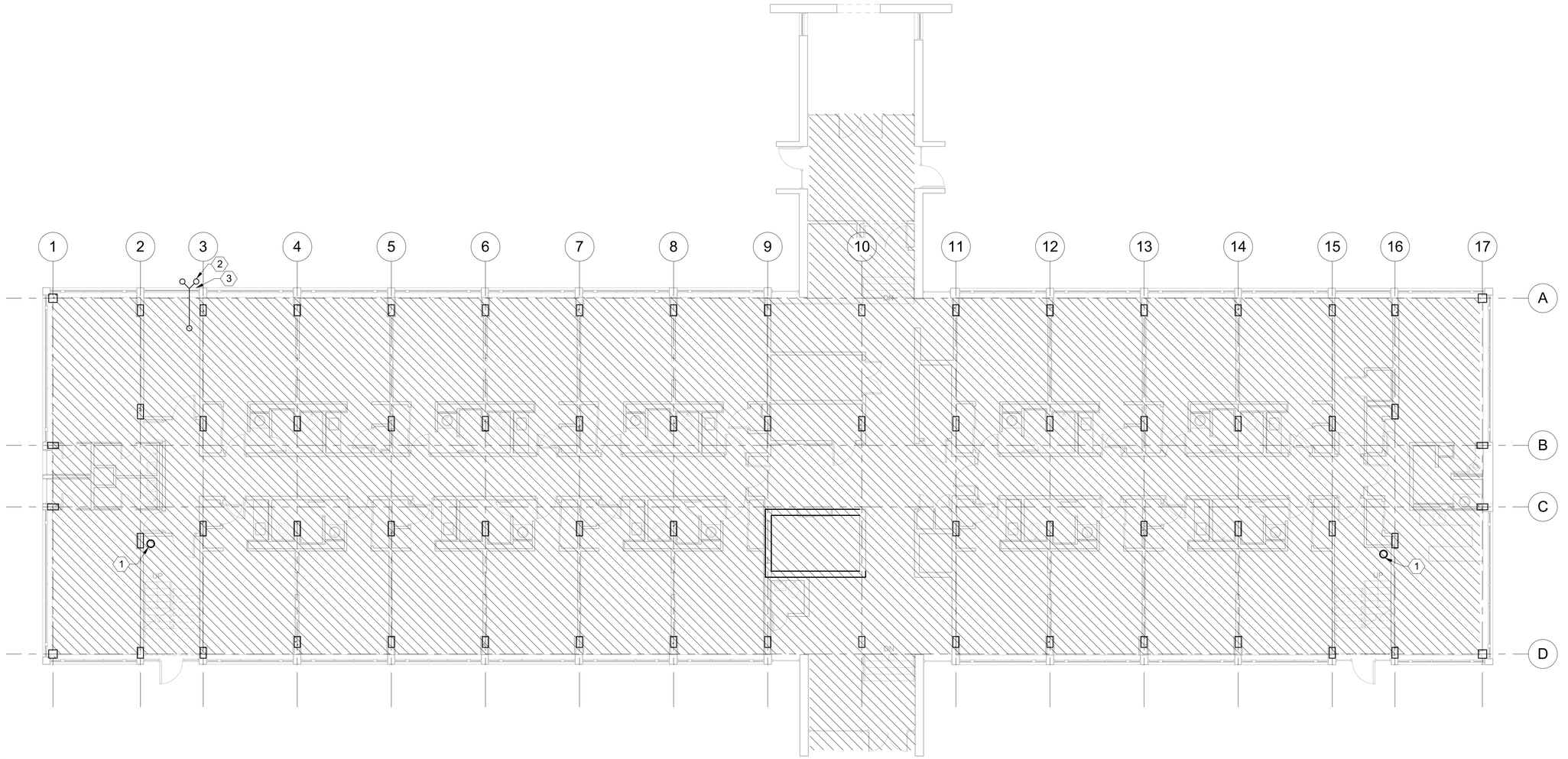

PLAN NORTH

FIRE SUPPRESSION LEVEL 1 DEMOLITION PLAN

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

NOTES:

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

DEMOLITION NOTES: (1)

1. EXISTING STANDPIPE AND HOSE VALVES TO REMAIN. REMOVE ALL SPRINKLER PIPING TO CONNECTION WITH STANDPIPE.
2. EXISTING FDC AND ASSOCIATED PIPING TO REMAIN.
3. REMOVE EXISTING WATER MOTOR ALARM BELL.

DEMOLITION HATCH LEGEND

REMOVE EXISTING FIRE SUPPRESSION SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO SPRINKLER, PIPING, VALVES, ETC.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

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Date Signed
David W. Trumfield
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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT,NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
NEWPORT, RHODE ISLAND
FIRE SUPPRESSION LEVEL 1 DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719479
SHEET	94 OF 200

FX101D

DRAWFORM REVISION: 10 MAY 2014

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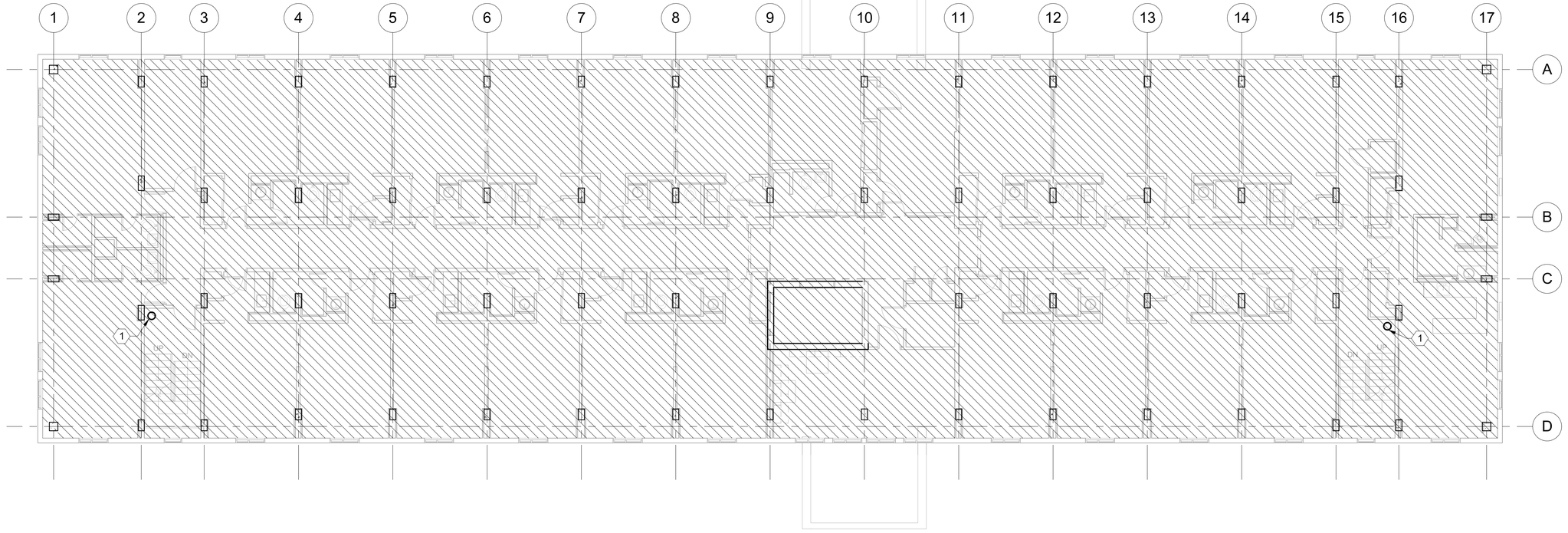

PLAN NORTH

FIRE SUPPRESSION LEVEL 2 DEMOLITION PLAN

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

NOTES:

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

DEMOLITION NOTES: (1)

1. EXISTING STANDPIPE AND HOSE VALVES TO REMAIN. REMOVE ALL SPRINKLER PIPING TO CONNECTION WITH STANDPIPE.

DEMOLITION HATCH LEGEND

REMOVE EXISTING FIRE SUPPRESSION SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO SPRINKLER, PIPING, VALVES, ETC.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT,NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE SUPPRESSION LEVEL 2 DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719480
SHEET	95 OF 200

FX102D

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_ejshelton.rvt
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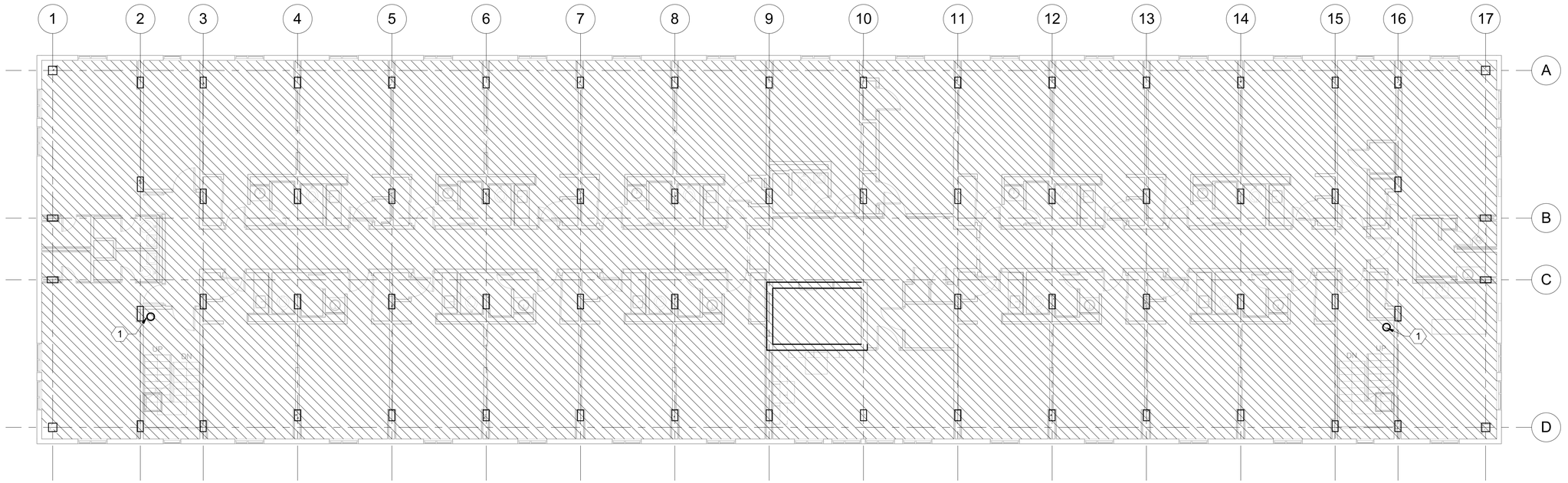

PLAN NORTH

FIRE SUPPRESSION LEVEL 3 DEMOLITION PLAN

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

NOTES:

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

DEMOLITION NOTES: (1)

1. EXISTING STANDPIPE AND HOSE VALVES TO REMAIN. REMOVE ALL SPRINKLER PIPING TO CONNECTION WITH STANDPIPE.

DEMOLITION HATCH LEGEND

REMOVE EXISTING FIRE SUPPRESSION SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO SPRINKLER, PIPING, VALVES, ETC.

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
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NEWPORT, RHODE ISLAND

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE SUPPRESSION LEVEL 3 DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719481
SHEET	96 OF 200

FX103D

DRAWFORM REVISION: 10 MAY 2014

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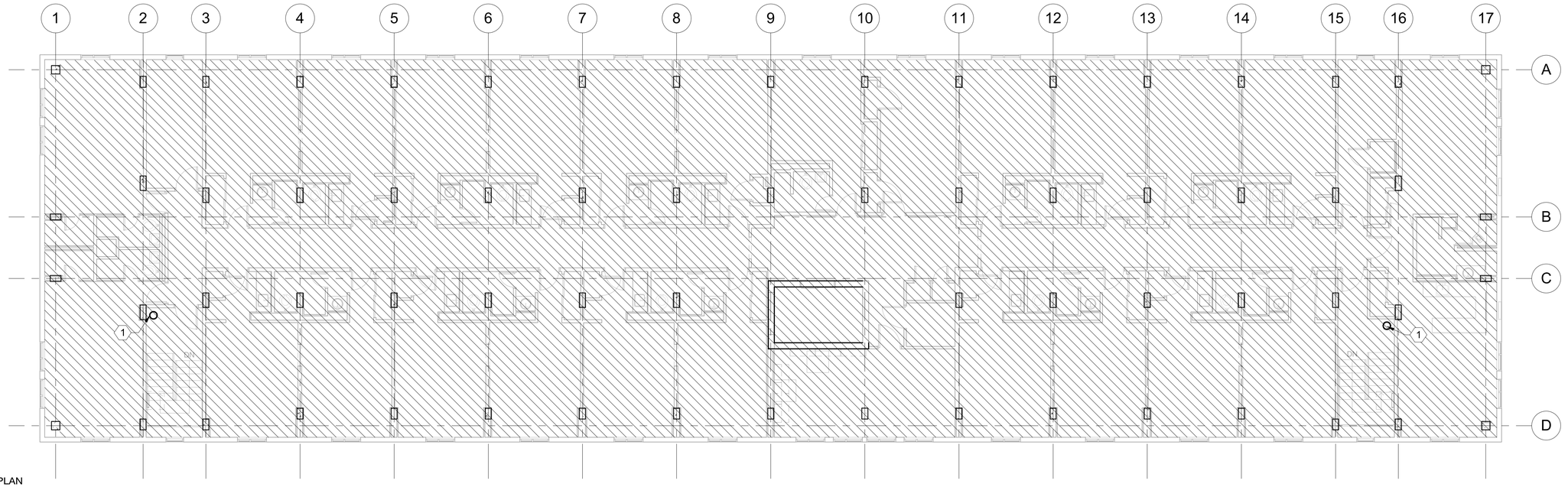

PLAN NORTH

FIRE SUPPRESSION LEVEL 4 DEMOLITION PLAN

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

NOTES:

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

DEMOLITION NOTES: (1)

1. EXISTING STANDPIPE AND HOSE VALVES TO REMAIN.

DEMOLITION HATCH LEGEND

REMOVE EXISTING FIRE SUPPRESSION SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO SPRINKLER, PIPING, VALVES, ETC.

GRAPHIC SCALE:

1/8" =1'-0"

0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT

NAVFAC FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

RENOVATION OF NGIS, BUILDING 172

FIRE SUPPRESSION LEVEL 4 DEMOLITION PLAN

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719482
SHEET	97 OF 200

FX104D

DRAWFORM REVISION: 10 MAY 2014

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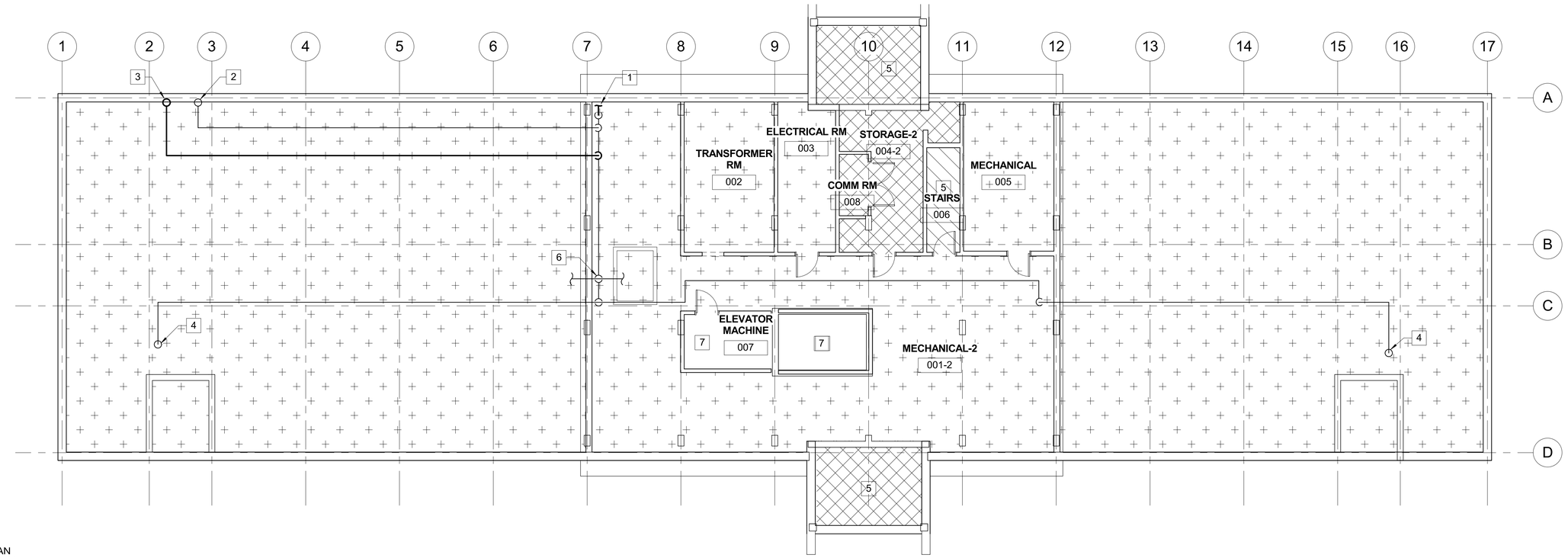

PLAN NORTH

FIRE SUPPRESSION PLAN BASEMENT

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

NOTES:

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

NEW WORK NOTES:

1. EXISTING WATER ENTRANCE LOCATION. PROVIDE BFP IN VERTICAL. SEE DETAIL ON SHEET FX601.
2. UP TO EXISTING FDC.
3. UP TO BFP TEST HEADER.
4. UP TO EXISTING STANDPIPE.
5. EXTEND SPRINKLER SYSTEM TO COVER THIS SPACE.
6. ADD NEW SUPERVISED CONTROL VALVE AND CHECK VALVE FOR BASEMENT/CRAWL SPACE SPRINKLER SYSTEM. EXISTING FLOW SWITCH TO REMAIN.
7. EXISTING ELEVATOR MACHINE ROOM/HOISTWAY IS UNSPRINKLERED.

HAZARD SCHEDULE

- HC-1
- HC-2
- EXISTING TO REMAIN
- RESIDENTIAL

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND
NORTH IPT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE SUPPRESSION PLAN BASEMENT

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719483
SHEET	98 OF 200

FX100

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBld\g172\Models\MEP\86232_F_ejshelton.rvt
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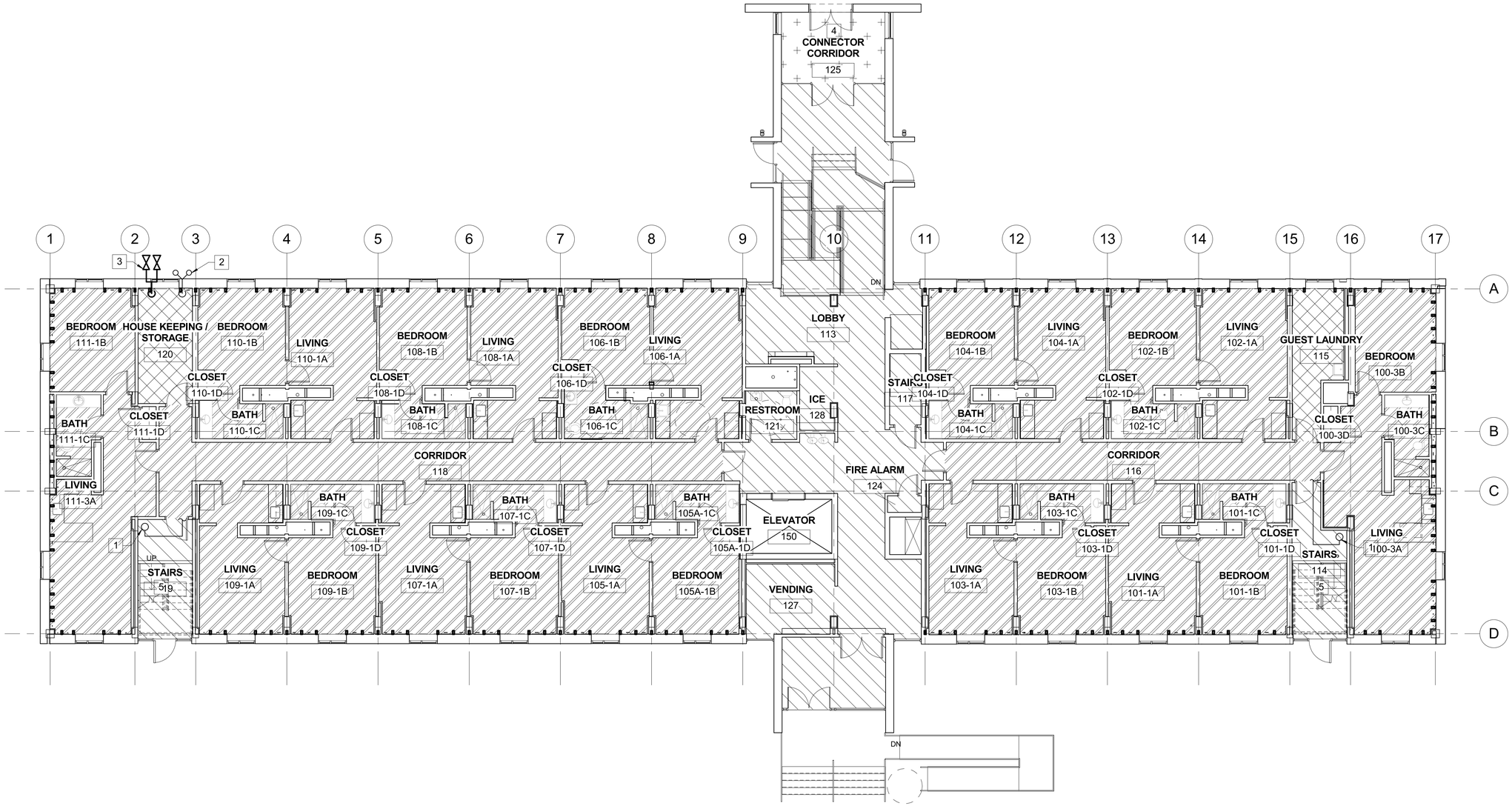

PLAN NORTH

FIRE SUPPRESSION PLAN LEVEL 1

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

NOTES:

1. REFER TO FX001 FOR GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND SYMBOLS.
2. ROUTE SPRINKLER MAINS CONCEALED ABOVE CEILINGS OF GUEST ROOMS.

NEW WORK NOTES:

1. PROVIDE FLOOR CONTROL VALVE ASSEMBLY WITH SUPERVISED CONTROL VALVE, CHECK VALVE, AND FLOW SWITCH. SPRINKLER SYSTEM SHALL BE CONNECTED FROM BOTH STANDPIPES.
2. EXISTING FDC TO REMAIN.
3. BFP TEST HEADER.
4. EXISTING SPRINKLERS IN THIS AREA ARE PART OF BUILDING 442 AND ARE TO REMAIN.
5. INSTALL SPRINKLERS UNDER THE LOWEST STAIRWELL LANDING.

HAZARD SCHEDULE

- HC-1
- HC-2
- EXISTING TO REMAIN
- RESIDENTIAL

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
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A/E INFO

APPROVED
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PWB/RANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
NEWPORT, RHODE ISLAND
FIRE SUPPRESSION PLAN LEVEL 1

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719484
SHEET	99 OF 200

FX101

DRAWFORM REVISION: 10 MAY 2014

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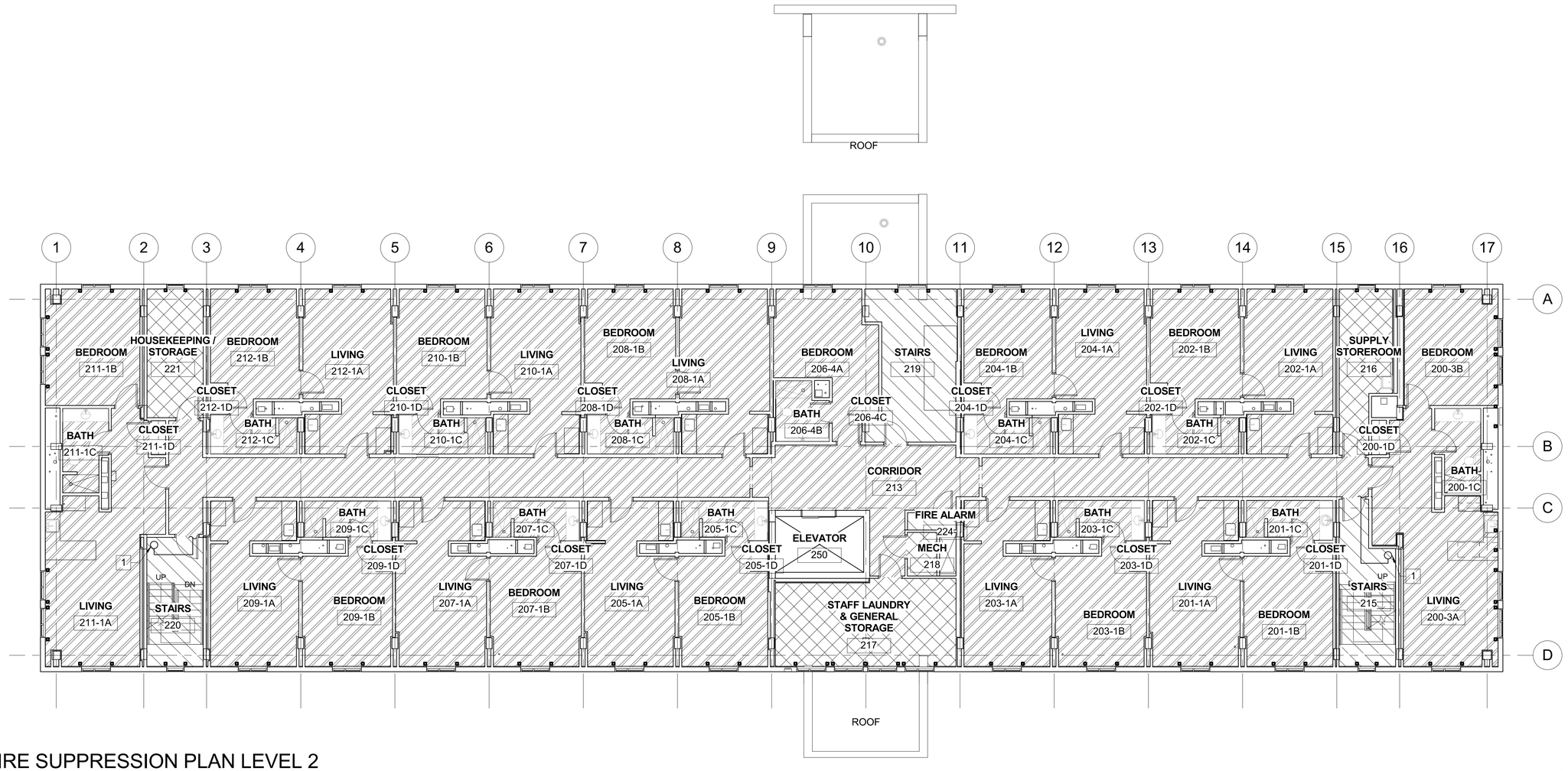

PLAN NORTH

FIRE SUPPRESSION PLAN LEVEL 2

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

NOTES:

1. REFER TO FX001 FOR GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND SYMBOLS.
2. ROUTE SPRINKLER MAINS CONCEALED ABOVE CEILINGS OF GUEST ROOMS.

NEW WORK NOTES:

1 PROVIDE FLOOR CONTROL VALVE ASSEMBLY WITH SUPERVISED CONTROL VALVE, CHECK VALVE, AND FLOW SWITCH. SPRINKLER SYSTEM SHALL BE CONNECTED FROM BOTH STANDPIPES.

HAZARD SCHEDULE

- HC-1
- HC-2
- EXISTING TO REMAIN
- RESIDENTIAL

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

NAVFAC

COMMONWEALTH OF VIRGINIA
ERIC J. SHELTON
Lic. No. 36129
5/4/16
PROFESSIONAL ENGINEER
SEAL

BURNS McDONNELL
1305 EXECUTIVE BLVD.
SUITE 160
CHESAPEAKE, VA 23320
A/E INFO

APPROVED
FOR COMMANDER NAVFAC / B.L.T.L.

ACTMITY
PER SAT/Q DOCUMENT FROM GERARD MONTANI (PM/BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES EJS	DRW DRR	CHK BM
PM / DM	MLW/EJ	
BRANCH MANAGER	DPS	
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NORTH IPT
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
NEWPORT, RHODE ISLAND

FIRE SUPPRESSION PLAN LEVEL 2

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719485
SHEET	100 OF 200

FX102

DRAWFORM REVISION: 10 MAY 2014

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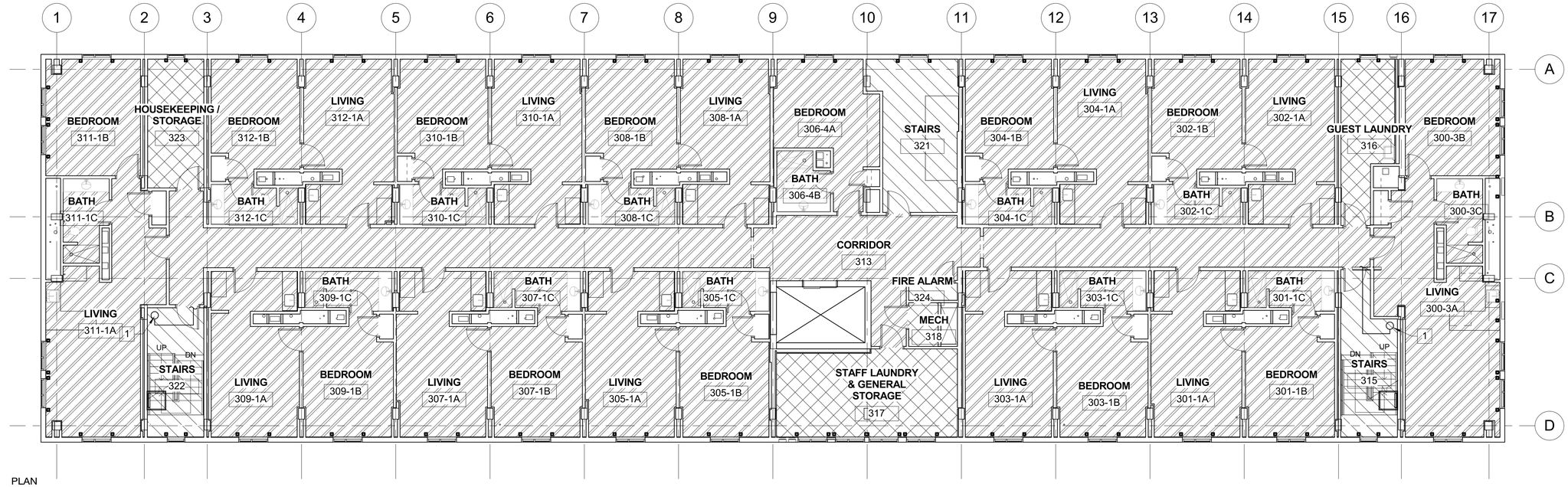

PLAN NORTH

FIRE SUPPRESSION PLAN LEVEL 3

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

NOTES:

1. REFER TO FX001 FOR GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND SYMBOLS.
2. ROUTE SPRINKLER MAINS CONCEALED ABOVE CEILINGS OF GUEST ROOMS.

NEW WORK NOTES:

1 PROVIDE FLOOR CONTROL VALVE ASSEMBLY WITH SUPERVISED CONTROL VALVE, CHECK VALVE, AND FLOW SWITCH. SPRINKLER SYSTEM SHALL BE CONNECTED FROM BOTH STANDPIPES.

HAZARD SCHEDULE

- HC-1
- HC-2
- EXISTING TO REMAIN
- RESIDENTIAL

GRAPHIC SCALE:

1/8" =1'-0"

0' 4' 8' 16'

APPR | DATE | SYM | DESCRIPTION

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A/E INFO

APPROVED
David W. Dunnfield
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM/BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES EJS	DRW DRR	CHK BM
PM / DM	MLW/LEJ	
BRANCH MANAGER	DPS	
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
NEWPORT, RHODE ISLAND
FIRE SUPPRESSION PLAN LEVEL 3

SCALE: AS NOTED
EPROJECT NO. 13770079
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12719486
SHEET 101 OF 200

FX103

DRAW/FORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_gshelton.rvt
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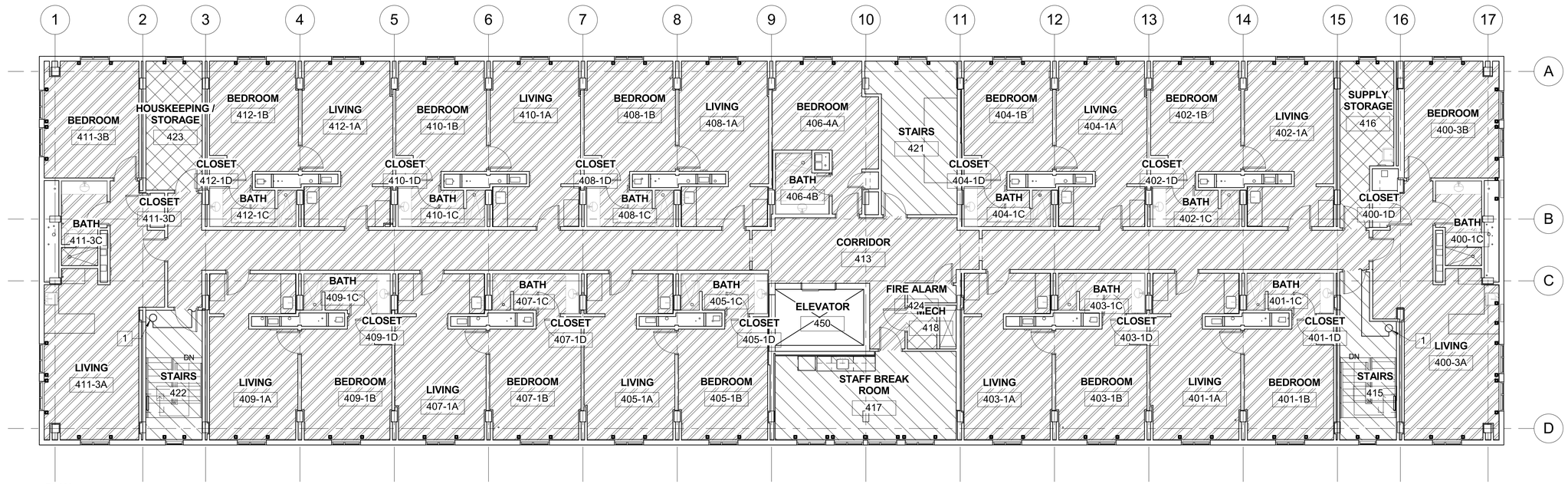

PLAN NORTH

FIRE SUPPRESSION PLAN LEVEL 4

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

NOTES:

1. REFER TO FX001 FOR GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND SYMBOLS.
2. ROUTE SPRINKLER MAINS CONCEALED ABOVE CEILINGS OF GUEST ROOMS.

NEW WORK NOTES:

1 PROVIDE FLOOR CONTROL VALVE ASSEMBLY WITH SUPERVISED CONTROL VALVE, CHECK VALVE, AND FLOW SWITCH. SPRINKLER SYSTEM SHALL BE CONNECTED FROM BOTH STANDPIPES.

HAZARD SCHEDULE

- HC-1
- HC-2
- EXISTING TO REMAIN
- RESIDENTIAL

GRAPHIC SCALE:

1/8" =1'-0" 0' 4' 8' 16'

APPR	DATE	SYM	DESCRIPTION

NAVFAC

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ERIC J. SHELTON
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5/4/16
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SEAL

BURNS McDONNELL
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CHESAPEAKE, VA 23320
A/E INFO

APPROVED
David W. Dunfield
FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT-NEWPORT, RI

SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT.
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE SUPPRESSION PLAN LEVEL 4

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719487
SHEET	102 OF 200

FX104

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_ejshelton.rvt
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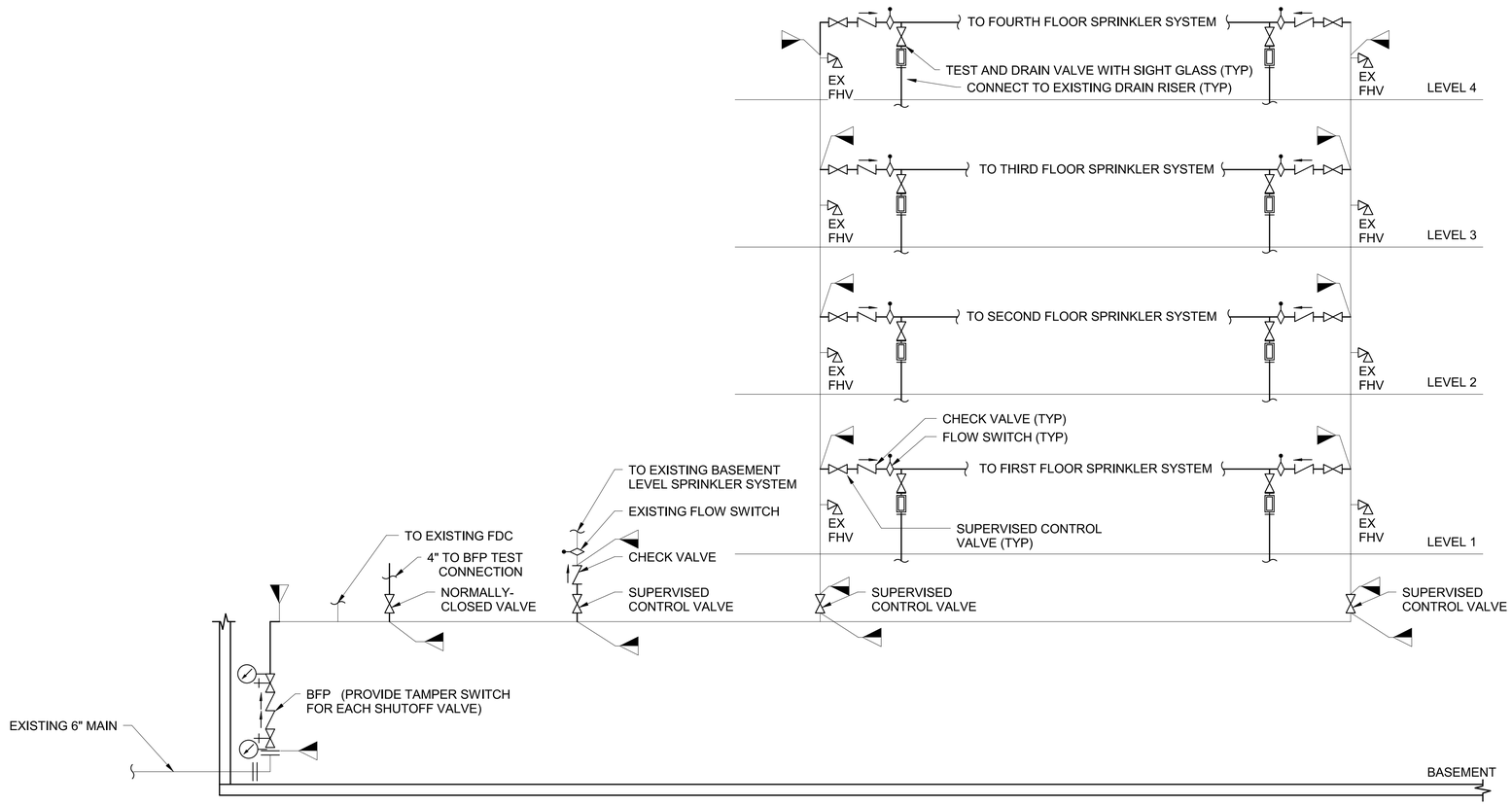
NOTES:

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



A2 FIRE SUPPRESSION ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

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5/4/16
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ACTIVITY
PER SAT-TO DOCUMENT FROM GERARD MONTANI (PM&BRANCH HEAD) WITH FEAD AT NAVAL STATION NEWPORT/NEWPORT, RI
SATISFACTORY TO DATE 4/20/16

DES	EJS	DRW	DRR	CHK	BM
PM / DM			MLW/LEJ		
BRANCH MANAGER			DPS		
CHIEF ENG/ARCH			DWG		
FIRE PROTECTION			DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORTH IPT
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NEWPORT, RHODE ISLAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND
RENOVATION OF NGIS, BUILDING 172
FIRE SUPPRESSION ONE LINE DIAGRAM

SCALE:	AS NOTED
EPROJECT NO.	13770079
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12719488
SHEET	103 OF 200

FX601

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: C:\Revit_Projects\86232-NGISBldg172\Models\MEP\86232_F_ejshelton.rvt
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