

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 20-Mar-2015	4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY NAVFAC MID ATLANTIC PWD PHILADELPHIA NAVAL SUPPORT ACTIVITY BLDG 24 700 ROBBINS AVENUE PHILADELPHIA PA 19111-5098		CODE N40085	7. ADMINISTERED BY (If other than item 6) NAVFAC MID ATLANTIC PWD PHILADELPHIA 4921 S. BROAD STREET BLDG 1, 2ND FLOOR PHILADELPHIA PA 19112	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. N40085-15-Q-7525
			X	9B. DATED (SEE ITEM 11) 25-Feb-2015
				10A. MOD. OF CONTRACT/ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE		FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  N40085-15-Q-7525 REMOVAL OF HEAT PUMP AND REPLACE WITH 12.5 TON SPLIT SYSTEM OF EQUIVALENT SPECIFICATION IN BLDG 77H AT THE PHILADELPHIA NAVAL BUSINESS CENTER, PHILADELPHIA, PA.  THIS AMENDMENT MUST BE ACKNOWLEDGED WITH RECEIPT OF QUOTE.  Description continues on page 2.				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SHANNON MACK / CONTRACT SPECIALIST TEL: 215-897-3495 EMAIL: shannon.mack@navy.mil	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	
			16C. DATE SIGNED 20-Mar-2015	

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

**SUMMARY OF CHANGES**

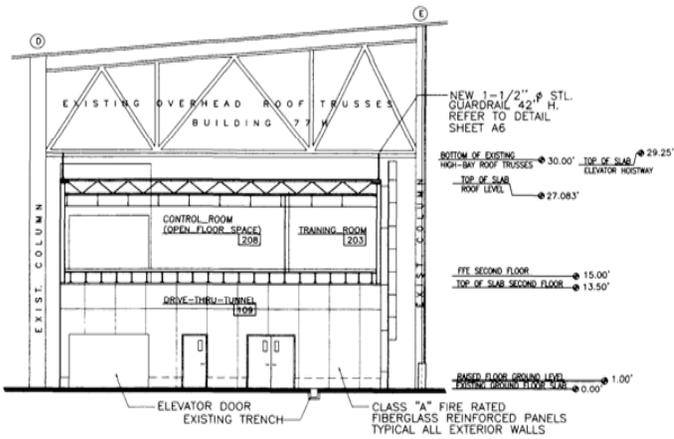
## SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

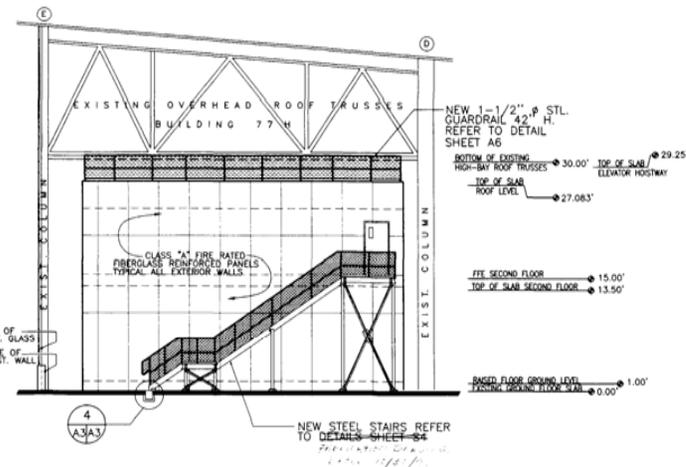
AMENDMENT 0002

1. The date for receipt proposal **REMAINS** 3:00 PM ET on 27 MARCH 2015.
2. **NOTE: THIS AMENDMENT MUST BE ACKNOWLEDGED WITH YOUR QUOTE.**
3. **ADD:** Drawings (pages 3-7 of this amendment)
4. NO Additional REQUESTS FOR INFORMATION (RFI) will be accepted.
- 5.: RESPONSE to the following RFI:
  - Q1. Do you have any drawings/plans of bldg 77 for Controls and existing Split system available.  
**A1. See drawings on pages 3-7 of this amendment**
  - Q2. Drawing for ducting  
**A2. See drawings on pages 3-7 of this amendment**
  - Q3. What is the height the height of building? **A3. See drawings on pages 3-7 of this amendment**
  - Q4. Who is a POC at Automated Logics.  
**A4. Radius Control Systems.  
Anne Jennings  
484-844-3323**
  - Q5. The contract calls for 100% outside air capability, please advise which of the two options are acceptable?
    - a.)Through the roof deck above the unit location
    - b.)Through the side exterior of the building.**A5. The outside air intake penetration point shall be through the West side of the building and NOT penetrate the roof.**

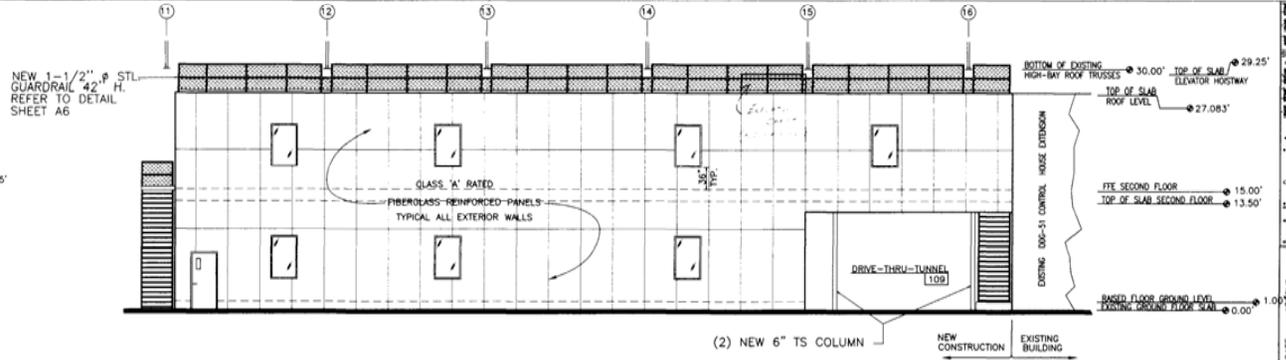
(End of Summary of Changes)



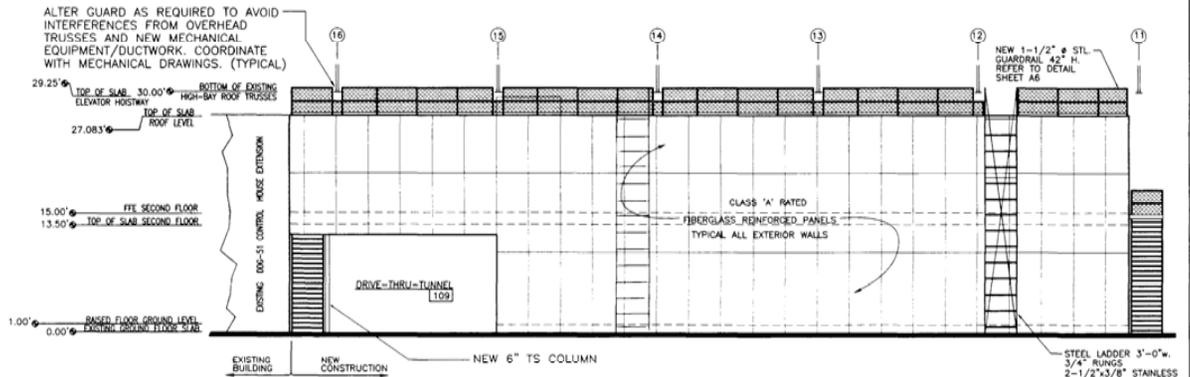
**NORTH BUILDING ELEVATION**  
SCALE: 1/8" = 1'-0"  
A1A3 4



**SOUTH BUILDING ELEVATION**  
SCALE: 1/8" = 1'-0"  
A1A3 3

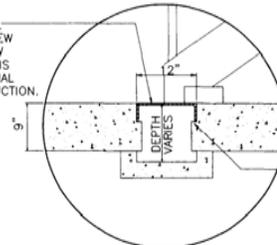


**EAST BUILDING ELEVATION**  
SCALE: 1/8" = 1'-0"  
A1A3 1

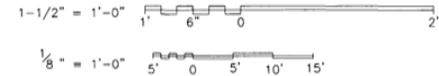


**WEST BUILDING ELEVATION**  
SCALE: 1/8" = 1'-0"  
A1A3 2

REMOVE PORTION OF EXIST. TRENCH COVER. INSTALL NEW C 12x20.7, 36" LONG. NEW STAIRS SHALL BEAR ON THIS CHANNEL. FIELD VERIFY FINAL LOCATION DURING CONSTRUCTION.



**TRENCH DETAIL**  
SCALE: 1-1/2" = 1'-0"  
A3A3 4



MANUFACTURER'S NAMES AND CATALOG DATA ARE PROVIDED IN ORDER TO INDICATE THE COLOR, MATERIAL AND FINISH OF THE PRODUCT DESIGNED. OTHER MANUFACTURER'S PRODUCTS HAVING SIMILAR COLOR, MATERIAL AND FINISH AND MEETING THE SPECIFIED REQUIREMENTS WILL BE ACCEPTABLE.

ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT/ENGINEER. REPRODUCTION OF THIS DRAWING FOR THE PURPOSE OF COPYING THIS WORK OR REVERSE SAID DRAWING SHALL BE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. IN NO EVENT SHALL THE ARCHITECT/ENGINEER BE LIABLE FOR ANY DAMAGE OR INJURY TO PERSONS OR PROPERTY OF ANY KIND, INCLUDING CONSEQUENTIAL DAMAGES, ARISING FROM OR OUT OF THE USE OF THIS DRAWING AND A SUEY OF COMPANY ASSETS, BOTH OF WHICH SHALL BE PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

LEVITALE ASSOCIATES, INC.  
 ARCHITECTS/ENGINEERS  
 1000 MARKET STREET, SUITE 200  
 PHILADELPHIA, PA 19102  
 TEL: 215-575-1100  
 FAX: 215-575-1101  
 PROJECT NO. 04-98-0070  
 SHEET NO. 2200263  
 DATE 03/05/99

NORTHERN DIVISION  
 PHILADELPHIA, PA  
 INTEGRATED SHIP CONTROL  
 AND DIAGNOSTIC FACILITY  
 BUILDING ELEVATIONS

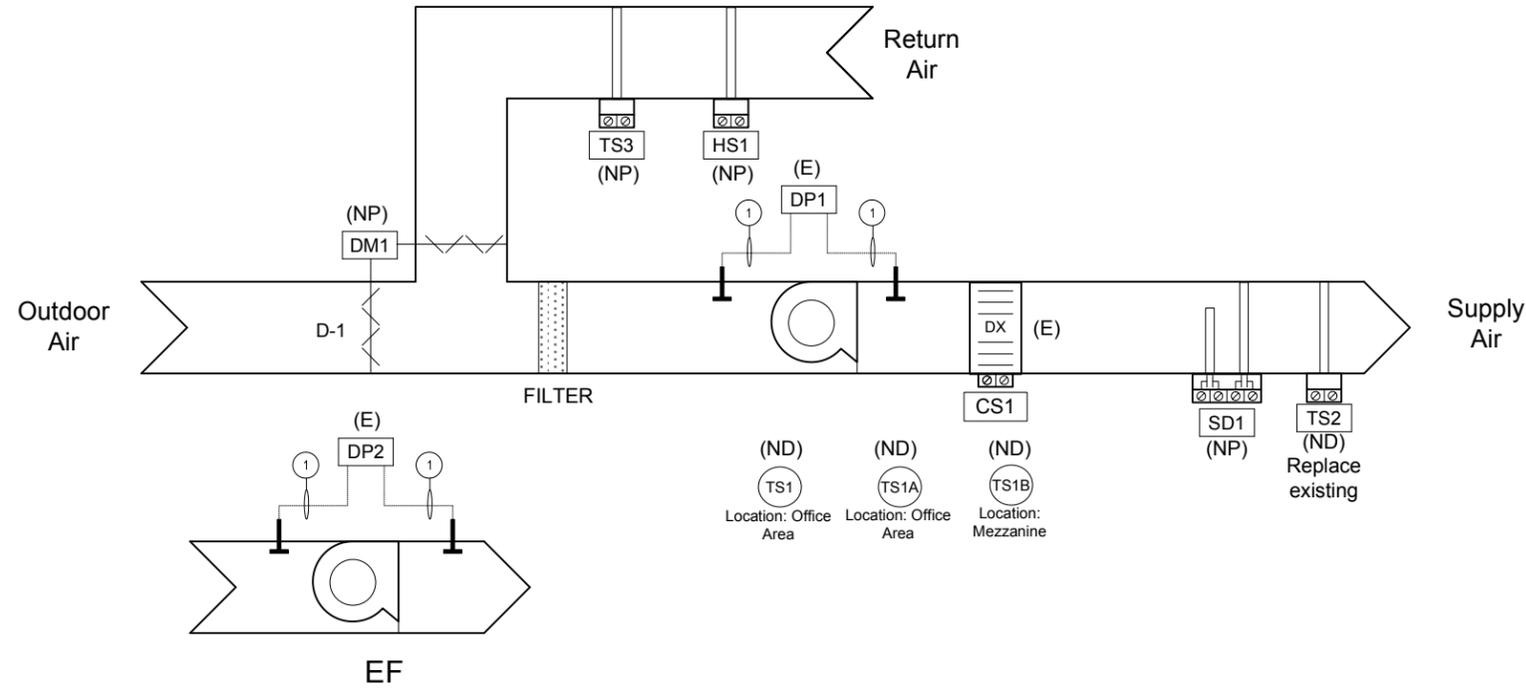
DATE  
 APPROVED  
 SEAL AND SIGNATURE OF ARCHITECT/ENGINEER  
 JOHN P. LEVITALE  
 REGISTERED PROFESSIONAL ARCHITECT/ENGINEER  
 NO. 0000000000

SHEET NO. 2200263  
 OF 26  
 DATE 03/05/99  
 SCALE AS SHOWN  
 SPEC. NO. 04-98-0070  
 CONTING. CODE NO. 04-98-0070  
 NE2472-98-C-0070

DATE CREATED 11/11/98  
 LATEST CHANGE 03/05/99  
 CHANGED BY: [Signature]

# HP-1 FD

LOCATION: DDG-51  
TYPICAL OF: 1



BILL OF MATERIAL				
TAG	DESCRIPTION	MANUFACTURER	PART NO	QTY
CS1	EXISTING CURRENT SWITCH; VERIS H960	EXISTING	EXISTING	1
D-1	DAMPER	EXISTING	EXISTING	1
DM1	MOTORIZED DAMPER ACTUATOR	EXISTING	EXISTING	1
DP1	DIFFERENTIAL PRESSURE SENSOR	EXISTING	EXISTING	1
DP2	DIFFERENTIAL PRESSURE SENSOR	EXISTING	EXISTING	1
HS1	2% DUCT HUMIDITY SENSOR - 0-5Vdc=0-100%rh	BAPI	ALC/H200-D	1
SD1	SMOKE DETECTOR	EXISTING	EXISTING	1
TS1	SPACE SENSOR	BAPI	LSBASE2	1
TS1A	SPACE SENSOR	BAPI	LSBASE2	1
TS1B	SPACE SENSOR	BAPI	LSBASE2	1
TS2	10K-2.8 DUCT PROBE - 2X4 STEEL J BOX	BAPI	ALC/10K-2-D-8	1
TS3	10K-2.8 DUCT PROBE - 2X4 STEEL J BOX	BAPI	ALC/10K-2-D-8	1

### Heat Pump Unit HP-1:

Each heat pump shall have a separate schedule and set-point. The occupancy schedule for this area shall be 6:00 A.M. to 6:00 P.M. The units shall operate to maintain the space temperature between 71 °F to 77 °F with a mean set-point of 74 °F. The wall stat has a potentiometer which is programmed to allow the occupants ± 3 °F of adjustment from the mean. During the unoccupied mode, the space will maintain a heating set-point of 55 °F with no cooling control. Each wall stat has a pushbutton override, which will allow the occupant 4 hours of override.

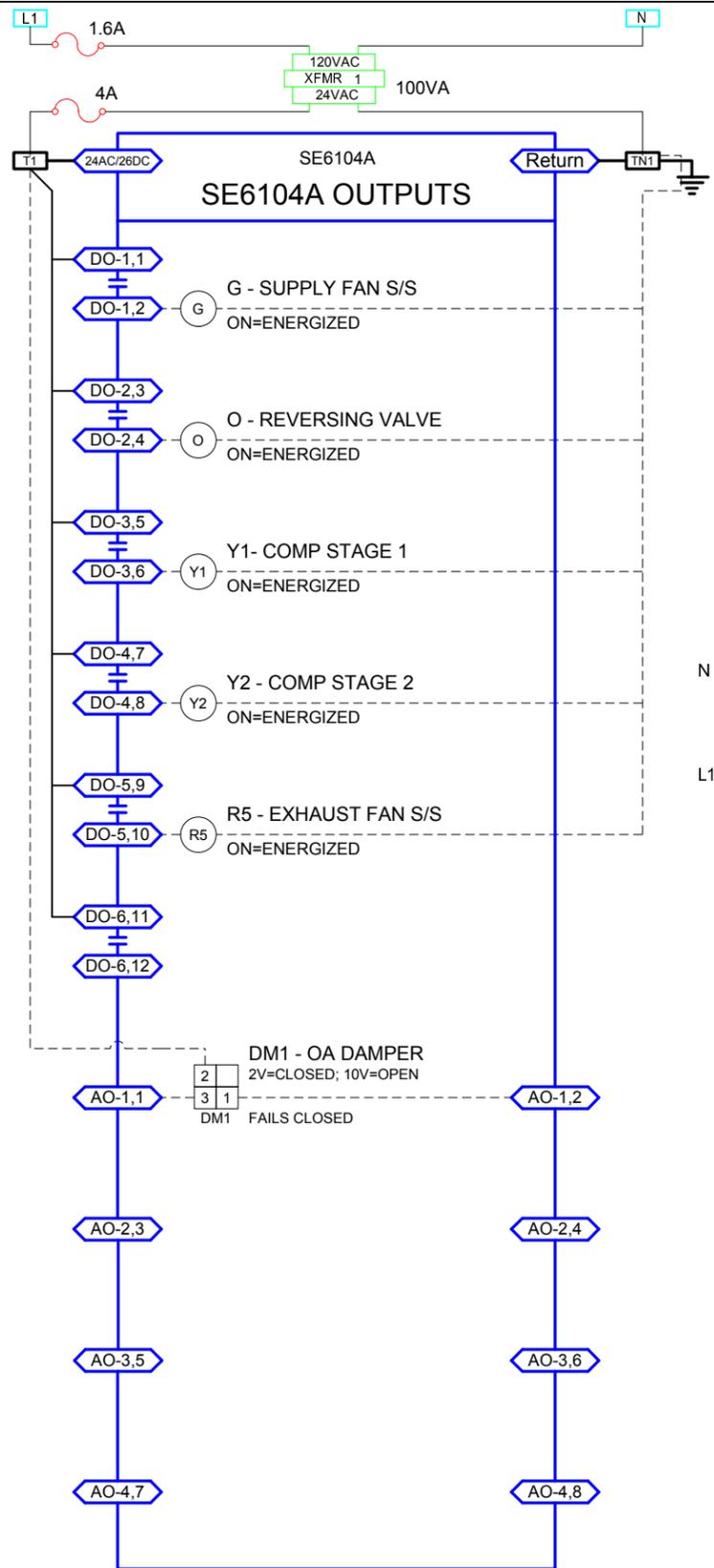
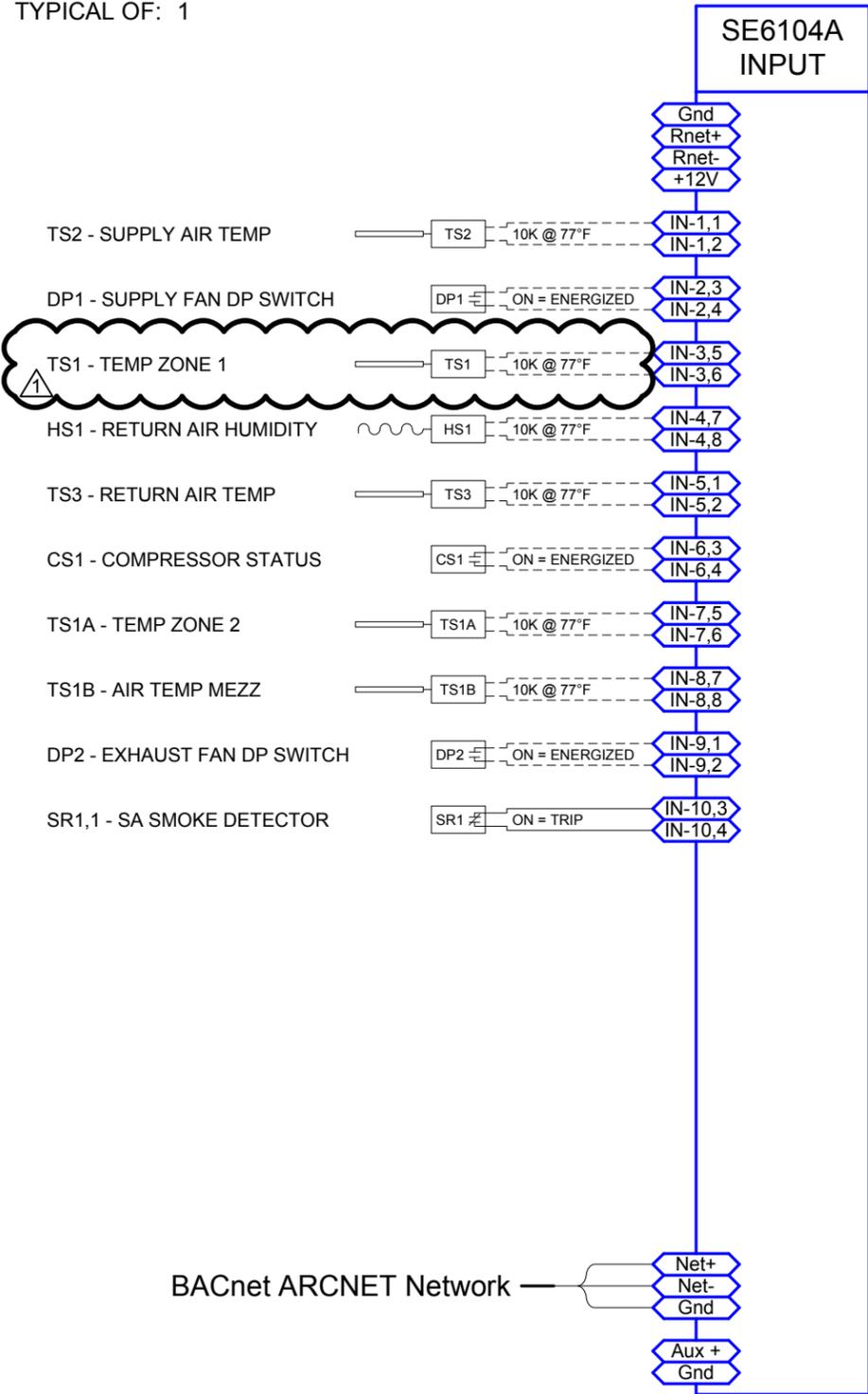
NAVSEA - Bldg 77H, 670, 756 Retrofit  
Philadelphia, Pennsylvania

REV	REVISION DESCRIPTION	BY	DATE			
1	DWG 9, 11, 13, 15,17,19, 26	RWS	9/17/08	Radius Systems LLC		
2	START/STOP FOR EACH EX. FAN	CAR	05/05/09	HP-1 FD		
3				REV: 2	As-Built	5/6/2009
4						JOB NO: 080730GBE
5						CHECK BY: CAR
						DSCODE: 080730GBE
						8 of 40

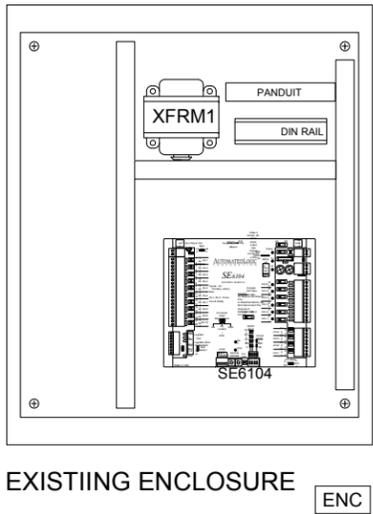
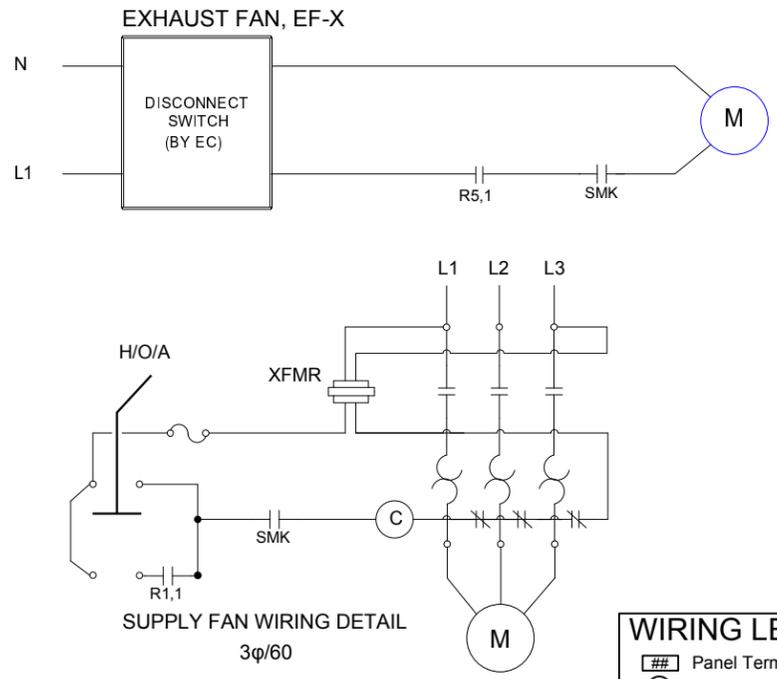


# HP-1 WD

LOCATION: DDG-51  
TYPICAL OF: 1



BILL OF MATERIAL				
TAG	DESCRIPTION	MANUFACTURER	PART NO	QTY
ENC	MEDIUM TYPE 1 ENCLOSURE	EXISTING	EXISTING	1
R5	EXISTING FIELD RELAY	EXISTING	EXISTING	1
SE6104A	SE MODULE 6 DO 10 UI 4 AO W/R NET	AUTOMATED LOGIC	SE6104A	1
XFRM1	EXISTING TRANSFORMER	EXISTING	EXISTING	1



WIRING LEGEND			
##	Panel Terminal	###	Controller Terminal
#	Note	(##)	Equipment Terminal
⚠	Revision		
---	Field Wiring, Plenum Rated, Unshielded		
---	18 AWG, Copper Wire		
---	Panel/Controller Wiring		
---	Low Voltage Communication Wiring,		
---	Line Voltage Field Wiring		
---	Line Voltage Field Wiring by Others Unless Noted		

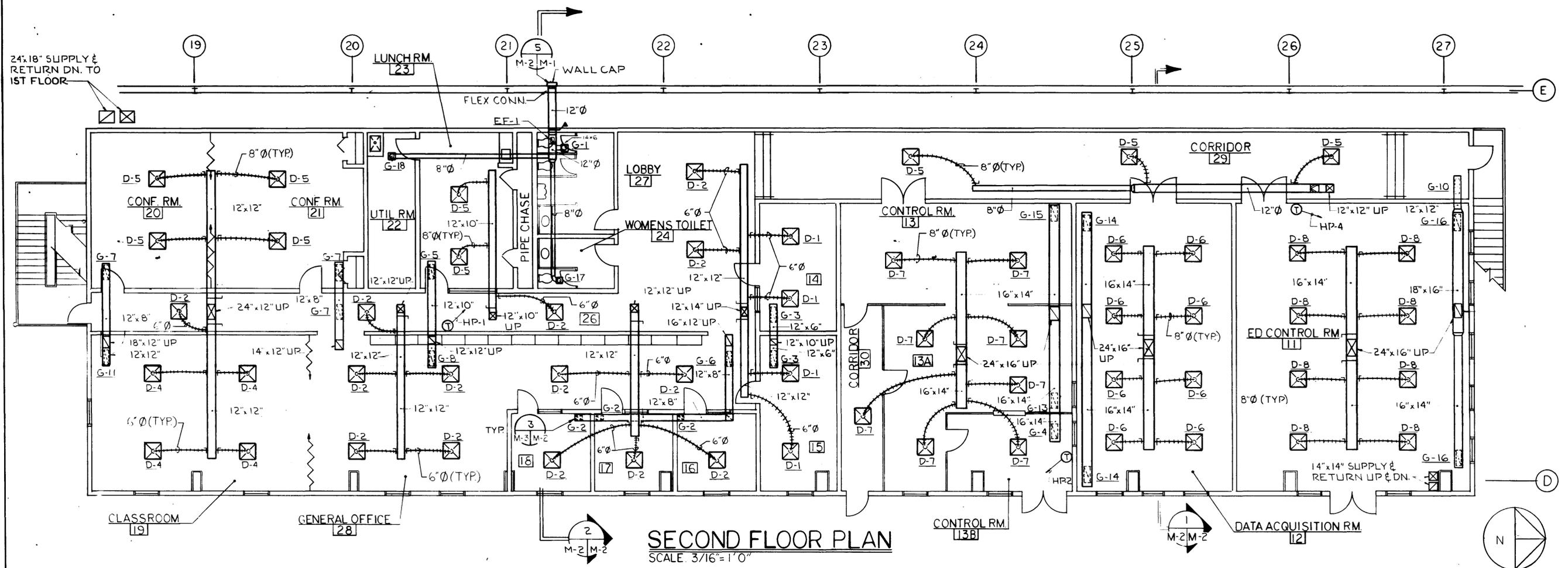
Note: Refer to wiring diagram termination details for required number of conductors for input / output wiring.

NAVSEA - Bldg 77H, 670, 756 Retrofit  
Philadelphia, Pennsylvania

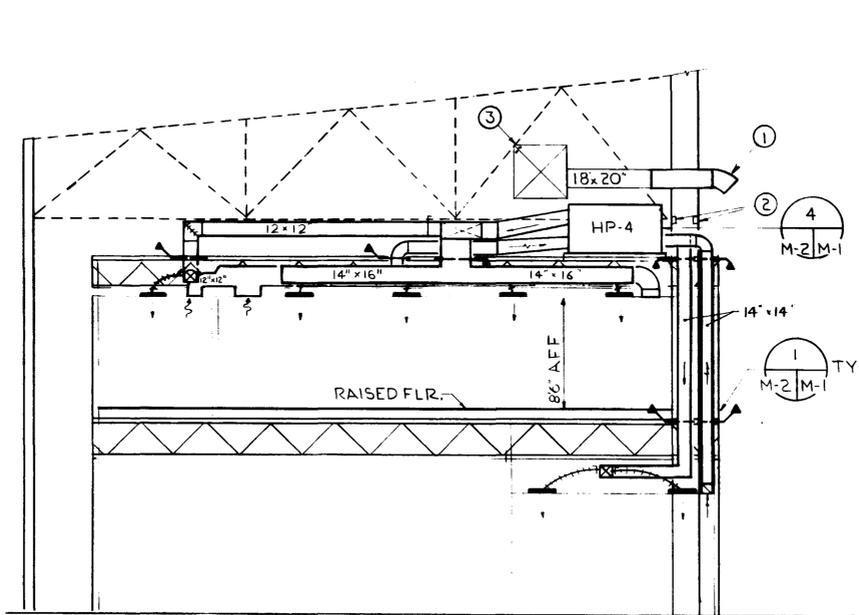
REV	REVISION DESCRIPTION	BY	DATE
1	DWG 9, 11, 13, 15,17,19, 26	RWS	9/17/08
2	START/STOP FOR EACH EX. FAN	CAR	05/05/09
3			
4			
5			

Radius Systems LLC			
HP-1 WD			
REV: 2	As-Built	5/6/2009	JOB NO: 080730GBE
			CHECK BY: CAR
			DSCODE: 080730GBE
9 of 40			

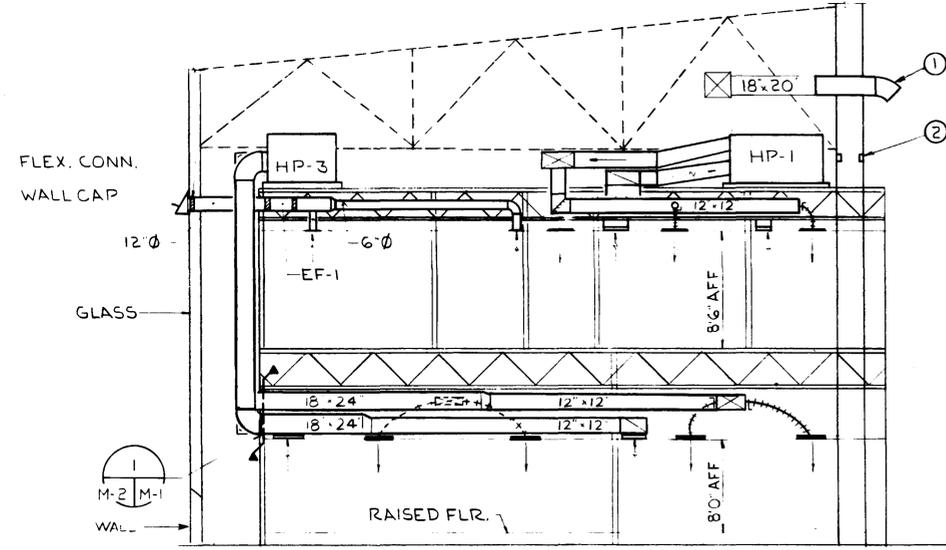
REVISIONS			
LET	DESCRIPTION	PREP'D BY	DATE APPROVED



**SECOND FLOOR PLAN**  
SCALE: 3/16" = 1'-0"



**SECTION 1**  
M-1,2,3 M-2 SCALE: 3/16" = 1'-0"



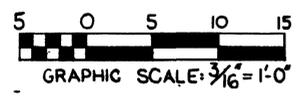
**SECTION 2**  
M-1,2,3 M-2 SCALE: 3/16" = 1'-0"

**SHEET NOTES**

- ① NEW ELBOW, 45 DEGREE RADIUS WITH VANES & BIRD SCREEN ON END.
- ② REMOVE & RESET HORIZONTAL COLUMN BRACES TO ALLOW PLACEMENT OF HP-1, 2 & 4.
- ③ NOTCH CORNER OF EXIST DUCT AS REQUIRED TO CLEAR JOIST.

**REFERENCE DRAWINGS**

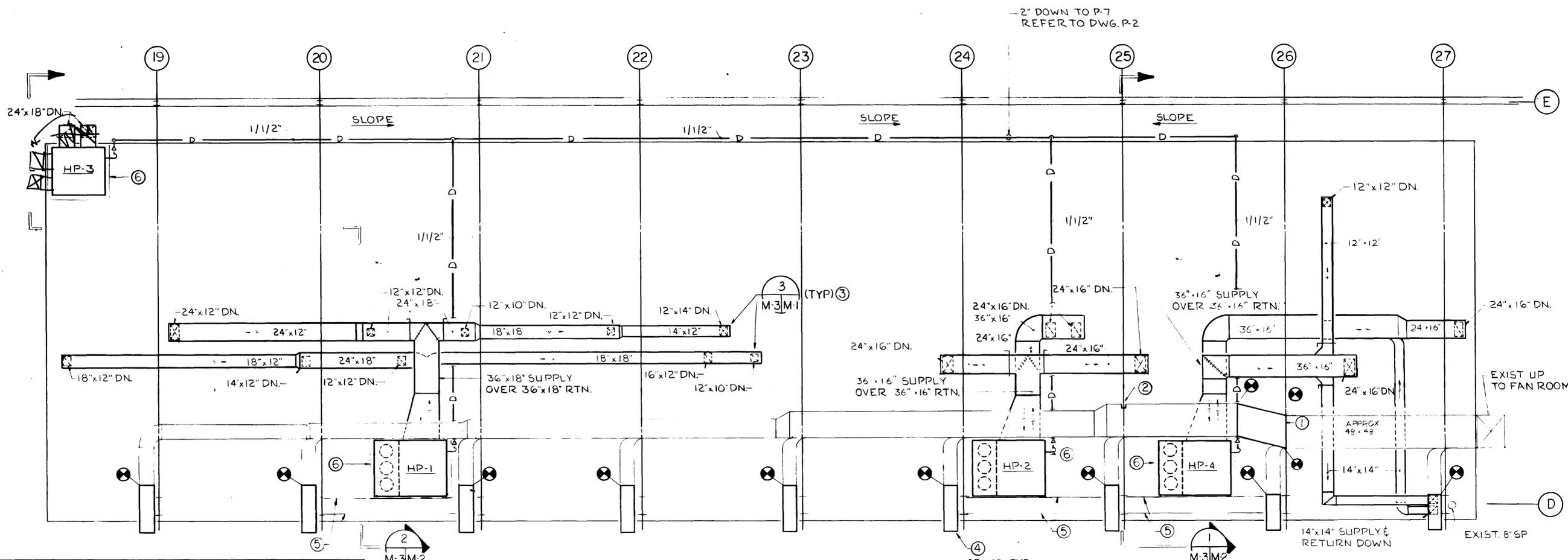
REFER TO T-2 FOR LEGEND & ABBREVIATION.  
REFER TO R-3 FOR MECHANICAL REMOVAL.



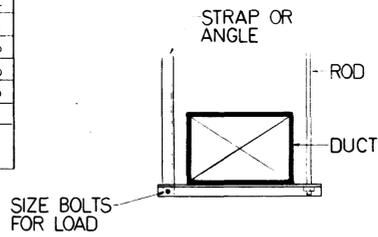
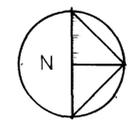
<b>MINNICH ENGINEERING</b> MECH-ELEC. ENGINEERS HARRISBURG, PENNSYLVANIA	<b>PennEast Corporation</b> Architects - Engineers - Surveyors Pottsville, Pennsylvania	PWD DWG. NO. DES. J.L.P. DRWN. M.M.W. CHD.D.M.B. HD. ARCH. HD. STRU. HD. CIVIL HD. ELEC. HD. MECH.	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL SHIPYARD NAVAL BASE PHILADELPHIA, PA. 19112
APPROVED: <i>[Signature]</i> DATE: _____ OFFICER IN CHARGE		CODE: 80091 F NAVFAC DRAWING NO. 2089327	DESIGN PROJECT-PWC 88631 <b>MECH. SEC. FLOOR PLAN AND SECTIONS</b> <b>DDG-51 TEST SITE</b> <b>CONTROL HOUSE COMPLEX</b>

APPROVED: <i>[Signature]</i> DATE: _____ OFFICER IN CHARGE	CODE: 80091 F NAVFAC DRAWING NO. 2089327	DESIGN PROJECT-PWC 88631 <b>MECH. SEC. FLOOR PLAN AND SECTIONS</b> <b>DDG-51 TEST SITE</b> <b>CONTROL HOUSE COMPLEX</b>
---------------------------------------------------------------	---------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------

REVISIONS				
LET	DESCRIPTION	PREP'D BY	DATE	APPROVED



**ROOF PLAN**  
SCALE 3/16"=1'-0"



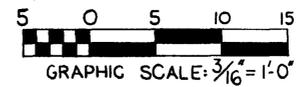
**TYPICAL DUCT SUPPORT DETAIL**  
NO SCALE

GRILLE SCHEDULE						
SYMBOL	TYPE	THROAT DIM. LxW	CFM	TOTAL PRESS. IN W.G.	NC DB	REMARKS
G-1	*	14x16	260	.12	30	SURFACE MOUNT
G-2	*	8x8	170	.10	27	
G-3	*	24x12	300	.02	10	LAY-IN
G-4	*		360	.02	10	
G-5	*		400	.02	10	
G-6	*		490	.03	10	
G-7	*		500	.03	11	
G-8	*		680	.04	12	
G-9	*		700	.08	13	
G-10	*		750	.08	13	
G-11	*		840	.08	14	
G-12	*		1000	.16	18	
G-13	*		1060	.16	18	
G-14	*		1280	.20	24	
G-15	*		1440	.22	26	
G-16	*		1520	.33	30	
G-17	*	8x8	130	.04	25	SURFACE MOUNTED
G-18	*	10x8	240	.09	28	

ROOFTOP HEATPUMP SCHEDULE															
SYMBOL	TOTAL CFM	O.A. CFM	INDOOR FAN			COOLING (MBH)				HEATING		OUTDOOR FAN		VOLTS/PHASE	
			H.P.	EXT. S.P.	RPM	TOTAL COOLING	SENS. COOLING	E.A.T. DB	AMB AIR	TOTAL MBH	E.A.T. DB	HP	NO		
HP-1	5320	700	3	.63	730	157.8	126.5	78	64	93	54.6	70	3/4	3	480/3
HP-2	5440	350	3	.67	755	140.6	126.2	77	63	93	32.3	70	3/4	3	480/3
HP-3	2940	240	1/2	.76	685	82.6	66.7	77	64	93	11.4	70	1/2	1	480/3
HP-4	4870	350	3	.63	755	127.6	112.3	77	63	93	35.6	70	3/4	3	480/3

CEILING DIFFUSER SCHEDULE								
SYMBOL	TYPE	PATTERN	THROAT DIM. LxW OR DIA.	CFM	NECK VEL. FPM	TOTAL PRESS. IN W.G.	NC DB	FACE SIZE
D-1	*	4-WAY	6"	150	750	.06	25	2'x12"
D-2	*		6"	170	850	.07	26	
D-3	*		6"	175	875	.08	28	
D-4	*		8"	210	600	.06	22	
D-5	*		8"	250	700	.05	20	FULL
D-6	*		8"	320	875	.08	25	
D-7	*		8"	360	1000	.10	29	
D-8	*		8"	380	1075	.11	30	

EXHAUST FAN SCHEDULE										
SYMBOL	CFM	SP	SIZE	RPM	DRIVE	H.P.	VOLTS/PHASE	TYPE	SONES	REMARKS
EF-1	630	.25	12"Ø	1140	DIRECT	1/8	115/1	INLINE	4.5	W/ BACK DRAFT DAMPER
EF-2	1400	.12	16"Ø	1140	DIRECT	1/6	115/1	*	5.2	W/ FAN GUARD
EF-3	4900	.12	24"Ø	770	BELT	1/2	208/3	*	11.3	W/ FAN GUARD



GRAPHIC SCALE: 3/16"=1'-0"

MINNICH ENGINEERING MECH-ELEC ENGINEERS HARRISBURG PENNSYLVANIA

PennEast Corporation Architects - Engineers - Surveyors Pottsville, Pennsylvania

APPROVED: [Signature]

OFFICER IN CHARGE: [Signature]

DESIGN PROJECT-PWC 88631

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL SHIPYARD NAVAL BASE PHILADELPHIA, PA. 19112

MECHANICAL ROOF PLAN & SCHEDULES

**DDG-51 TEST SITE CONTROL HOUSE COMPLEX**

NAVFAC DRAWING NO. 2089328 M-3

CONST. CONT. NO. 882478-06-C-417

SCALE NOTED SPEC. NO-04-88-4459 SHEET 25 OF 31

\* 24"x24" LAY-IN

\* - BREEZEWAY  
• - SPARK RESISTANT ALUMINUM BLADE, EXPLOSION PROOF MOTOR.

- SHEET NOTES**
- NEW DUCT, OFFSET AS REQUIRED TO PROVIDE CLEARANCE FOR HP UNITS.
  - NOTCH CORNER OF EXIST DUCT AS REQUIRED TO CLEAR JOIST. SEE SECTION 1, DWG. M-2, NOTE 3.
  - PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THRU SLAB.
  - ELBOW, 45 DEGREE RADIUS WITH VANES & BIRD SCREEN ON END. SEE SECTION 1, DWG. M-2.
  - REMOVE & RESET HORIZONTAL COLUMN BRACES TO ALLOW PLACEMENT OF HP-1, 2 & 4.
  - PROVIDE 4" CONCRETE EQUIPMENT PAD 8" WIDER THAN UNIT DIMENSIONS. SEE STRUCTURAL DWGS.

**REFERENCE DRAWINGS**

REFER TO T-2 FOR LEGEND & ABBREVIATION.

REFER TO R-3 FOR MECHANICAL REMOVAL.