













## MECHANICAL PIPE SYMBOLS

	3-WAY CONTROL VALVE
	2-WAY CONTROL VALVE
	BALL VALVE
	BLOCK VALVE / SHUTOFF VALVE
	GAUGE
	PUMP
	ANGLE VALVE
	DRAIN
	CHECK VALVE
	GLOBE VALVE
	FLOW TRANSMITTER
	STEAM TRAP
	RPZ
	NORMALLY CLOSED
	BOILER BLOWDOWN VALVE (SUPPLIED WITH BOILER)
	BOILER STOP CHECK VALVE
	FLANGED BUTTERFLY VALVE
	FLANGE
	FLOW MEASURING ORIFICE

NOTE: ALL ITEMS MAY NOT BE USED IN PROJECT.

## MECHANICAL LEGEND

	TEMPERATURE SENSOR
	TEMPERATURE/HUMIDITY SENSOR
	DUCT SMOKE DETECTOR
	INDICATES TO DEMOLISH
	GAS METER
	GAS SHUTOFF VALVE
	EXTENT OF DEMOLITION
	POINT OF CONNECTION
	DIFFUSER/ REGISTER/ GRILLE NO. AS SHOWN ON PLAN AND SCHEDULE
	SG, RG, TG, EG
	AIRFLOW, CFM

NOTE: ALL ITEMS MAY NOT BE USED IN PROJECT.

## MECHANICAL PIPE LEGEND

	HEATING HOT WATER SUPPLY
	HEATING HOT WATER RETURN
	HIGH PRESSURE STEAM
	EXISTING HIGH PRESSURE STEAM
	HIGH PRESSURE CONDENSATE
	EXISTING HIGH PRESSURE CONDENSATE
	BOTTOM BLOW DOWN
	CONTINUOUS BLOW DOWN
	BOILER FEED WATER
	EXISTING PUMPED CONDENSATE
	NATURAL GAS
	EXISTING CHEMICAL FEED SUPPLY

## MECHANICAL DUCTWORK LEGEND

	BALANCING DAMPER
	CEILING RETURN OR TRANSFER REGISTER/GRILLES
	EXHAUST GRILLES
	CEILING SUPPLY DIFFUSERS
	CONICAL TEE
	HORIZONTAL FIRE DAMPER
	VERTICAL FIRE DAMPER
	VERTICAL SMOKE DAMPER
	VERTICAL FIRE/SMOKE DAMPER
	FLEXIBLE DUCT CONNECTION
	DECLINED DROP WITH RESPECT TO AIRFLOW
	DROP
	INCLINED RISE WITH RESPECT TO AIRFLOW
	RISE
	INDICATES ROUND DUCTWORK
	MITERED ELBOW WITH TURNING VANES
	MOTORIZED CONTROL DAMPER
	RADIUS ELBOW
	SUPPLY DUCT TURNING UP (ROUND OR RECTANGULAR)
	RETURN DUCT TURNING UP (ROUND OR RECTANGULAR)
	EXHAUST DUCT TURNING UP (ROUND OR RECTANGULAR)
	OUTSIDE AIR DUCT TURNING UP (ROUND OR RECTANGULAR)
	SUPPLY DUCT TURNING DOWN (ROUND OR RECTANGULAR)
	RETURN DUCT TURNING DOWN (ROUND OR RECTANGULAR)
	EXHAUST DUCT TURNING DOWN (ROUND OR RECTANGULAR)
	OUTSIDE AIR DUCT TURNING DOWN (ROUND OR RECTANGULAR)
	SQUARE OR RECTANGULAR DUCTWORK
	VOLUME DAMPER
	TAKEOFF WITH 45° THROAT
	RETURN, EXHAUST OR TRANSFER AIR FLOW
	SUPPLY AIR FLOW
	DUCT CROSSING
	RECTANGULAR DUCT TURNING DOWN WITH CHANGE OF DIRECTION
	ROUND DUCT TURNING DOWN WITH CHANGE OF DIRECTION
	TERMINATION OF DUCT WITH BRANCH CONNECTIONS
	RECTANGULAR TO ROUND DUCT TRANSITION
	SUPPLY AIR DUCTWORK
	RETURN AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	OUTSIDE AIR DUCTWORK
	MAKEUP AIR DUCTWORK
	DUCT SMOKE DETECTOR
	STATIC PRESSURE SENSOR
	DIFFERENTIAL PRESSURE TRANSDUCER

NOTE: ALL ITEMS MAY NOT BE USED IN PROJECT.

## MECHANICAL GENERAL NOTES:

- ALL MECHANICAL WORK SHALL BE IN STRICT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND STANDARDS.
- ALL DIMENSIONS AND ELEVATIONS FOR NEW EQUIPMENT, DUCTWORK, PIPING AND APPARATUS ARE APPROXIMATE AND ARE ONLY FOR CONTRACTOR'S GUIDANCE. CONTRACTOR SHALL SUBMIT DIMENSIONS AND ELEVATIONS VERIFIED IN THE FIELD. DUCTWORK AND PIPING INDICATED ON THE DRAWINGS, SECTIONS AND PROSPECTIVE VIEWS ARE SHOWN DIAGRAMMATICALLY. DUCT AND PIPE ELEVATIONS IN EXACT LOCATIONS SHALL BE DETERMINED BY THE INSTALLING CONTRACTOR AND DETAILED ON THE SHOP DRAWINGS.
- ALL DUCT DIMENSIONS INDICATED ON PLAN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR MUST ACCOUNT FOR THE THICKNESS OF EXTERIOR INSULATION WHEN DETERMINING INSTALLATION CLEARANCES.
- THE CONTRACTOR SHALL TEMPORARILY COVER ALL EXPOSED DUCT AND PIPE OPENINGS WITH A NON-COMBUSTIBLE MATERIAL, AND SEAL THEM AIR TIGHT TO PREVENT CONTAMINATION OF THE RESPECTIVE SYSTEMS DURING CONSTRUCTION.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF OFFSITE ALL DEMOLISHED WORK IN ACCEPTABLE AND SAFE MANNER AND SHALL KEEP ALL NON-WORK AREAS CLEAN AND SAFE.
- ALL EXISTING EQUIPMENT AND CONNECTIONS THAT NEED TO BE TEMPORARILY DEMOLISHED FOR RIGGING AND / OR INSTALLATION SHALL BE REINSTALLED AND BROUGHT BACK TO ORIGINAL CONDITIONS PRIOR TO TEMPORARY REMOVAL.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.

## MECHANICAL DEMOLITION NOTES

- THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL EQUIPMENT, DUCTWORK, SUPPORTS, CONTROLS, ACCESSORIES, ETC..., AND MECHANICAL ITEMS MADE OBSOLETE BY THESE ALTERATIONS AS SHOWN IN THE MECHANICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY MECHANICAL WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE GOVERNMENT CONTRACTING OFFICER. SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A BID.
- SCHEDULING OF DEMOLITION – COORDINATE SCHEDULING OF MECHANICAL DEMOLITION WORK WITH THE CONTRACTING OFFICER SO AS TO MINIMIZE DISRUPTION OF THE GOVERNMENT'S USE OF THE FACILITIES AND MAINTAIN THE CONSTRUCTION SEQUENCE. SEE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS CONCERNING PHASING AND SEQUENCE OF WORK.
- DEMOLISHED MATERIALS – UNLESS SPECIFICALLY REQUESTED BY THE GOVERNMENT, ALL DEMOLISHED MECHANICAL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
- CUTTING AND PATCHING – PERFORM CUTTING AND PATCHING FOR MECHANICAL WORK SO AS TO MINIMIZE DAMAGE TO CEILINGS, FLOORS AND WALLS.
- THESE DRAWINGS ARE COMPILED BY THE ENGINEER FROM THE GOVERNMENT'S AS-BUILT RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL DUCTWORK, EQUIPMENT LOCATIONS, DIMENSIONS AND ALL FIELD CONDITIONS AFFECTING HIS WORK.
- WHERE MECHANICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL REMAIN OR BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE CONTRACTING OFFICER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.
- PROTECT ALL EXISTING LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE CONTRACTING OFFICER IN WRITING OF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE GOVERNMENT, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED MAINTAINING SERVICE.
- SURVEY THE AFFECTED AREAS BEFORE STARTING DEMOLITION AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPICTED ON THE DRAWINGS AND SOME UNUSUAL CONDITIONS EXIST.
- IF ANY UNUSUAL STRUCTURAL OR ARCHITECTURAL CONDITIONS ARE ENCOUNTERED DURING DEMOLITION, CONTACT THE CONTRACTING OFFICER FOR ASSISTANCE.

## MECHANICAL ABBREVIATIONS

ABBREVIATION	TERM
ADJ	ADJUSTABLE
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
AMP	AMPERE (AMP, AMPS)
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
CFM	CUBIC FEET PER MINUTE
CIP	CAST IN PLACE
CMU	CONCRETE MASONRY UNIT
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB
DEG OR °	DEGREE
EA	EXHAUST AIR
EG	EXHAUST GRILLE
EAT	ENTERING AIR TEMPERATURE
ECM	ELECTRONICALLY COMMUTATED MOTOR
EER	ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE
F	FAN
°F	FAHRENHEIT
FLA	FULL LOAD AMPS
FT	FEET
HC	HOT WATER COIL
HGT OR H	HEIGHT
HP	HORSEPOWER
HR	HOURL(S)
IN.	INCH
IN.-WG	INCHES WATER GAUGE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
L	LOUVER
MAX	MAXIMUM
MBH	1000 BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MCWB	MEAN COINCIDENT WET BULB
MIN.	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OZ	OUNCE
OA	OUTSIDE AIR
%	PERCENT
RA	RETURN AIR
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SF	SQUARE-FEET
SG	SUPPLY GRILLE
SQ	SQUARE
TG	TRANSFER GRILLE
TYP	TYPICAL
UH	UNIT HEATER
V/PH/HZ	VOLT/PHASE/HERTZ
VTR	VENT THROUGH ROOF
W	WIDTH
WB	WET BULB

NOTE: ALL ABBREVIATIONS MAY NOT BE USED IN PROJECT.

## DDC SYSTEM INTEGRATION NOTE:

THE ENERGY MANAGEMENT AND CONTROL SYSTEM (EMCS) AT CAMP LEJEUNE IS BY JOHNSON CONTROLS, INC. (JCI) METASYS. INCLUDE ALL CONTROL POINTS, SEQUENCES, PROGRAMMING, AND GRAPHIC UPDATES FOR NEW AND EXISTING HVAC EQUIPMENT MODIFIED UNDER THIS PROJECT TO MATCH THE BUILDING STANDARD FOR A COMPLETE AND OPERABLE SYSTEM.

05/23/19

DATE

0

SYN

ISSUED FOR CONSTRUCTION

DESCRIPTION

05/23/19

SEAL

**CBHF**

Engineers, PLLC

2246 Yaupon Drive

Wilmington, NC 28401

Phone: 910.791.4000

Fax: 910.791.5266

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NCE P-0306

A/E INFO

APPROVED

FOR COMMANDER NAFAC

ACTIVITY

L.T. David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES RWC DRW RWC CHK TOG

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC

NAVAL STATION, WAREHOUSING, VIRGINIA

U.S. MARINE CORPS

CAMP LEJEUNE, N.C.

**REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL**

MECHANICAL ABBREVIATIONS, GENERAL NOTES, DEMOLITION NOTES AND LEGENDS

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12790403

SHEET 4 OF 196

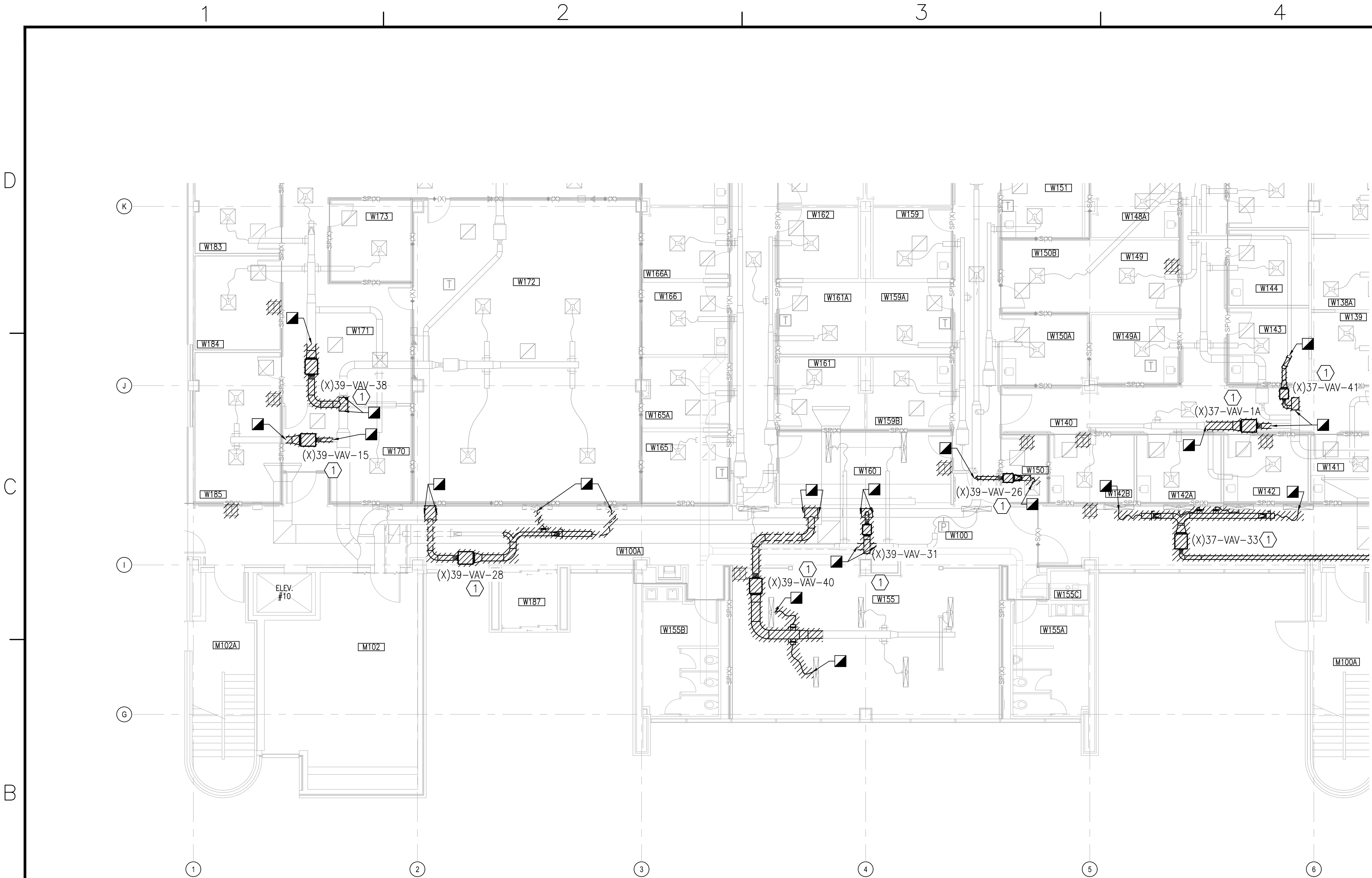
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DRAWFORM REVISION: 31 JANUARY 2017









PARTIAL PLAN - LEVEL 1 - AREA A2

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



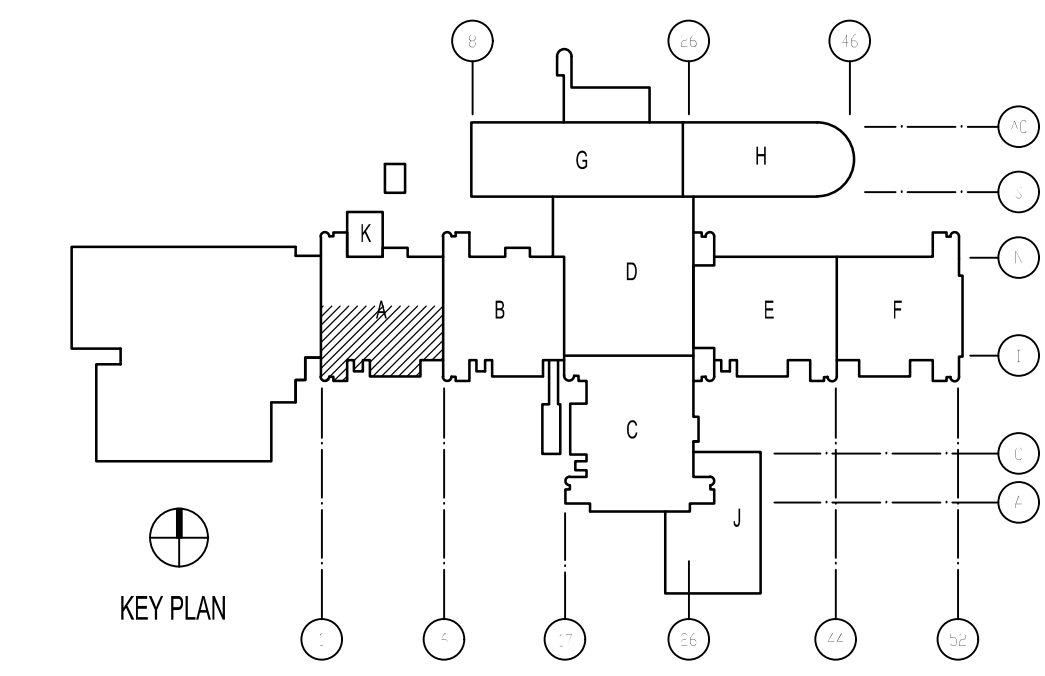
KEYED NOTES

- 1 REMOVE AND DISPOSE OF EXISTING VAV BOX INCLUDING CONTROLS AND HANGARS. DEMOLISH DUCT TO EXTENT SHOWN.
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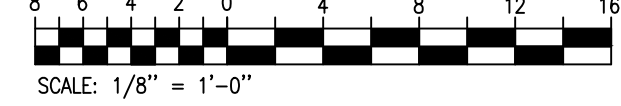
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KEY PLAN



GRAPHIC SCALE

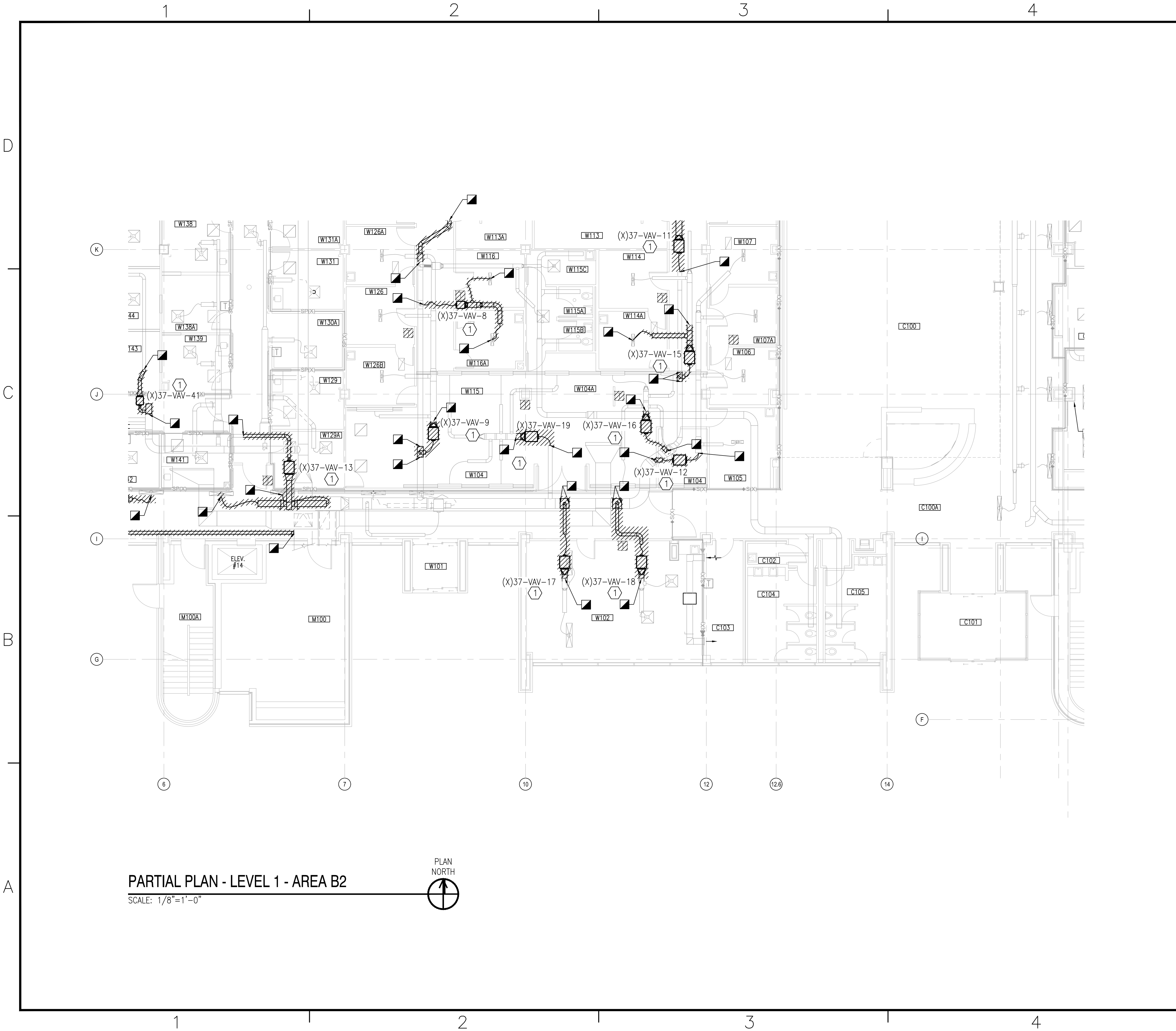


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PM/DM		DWB/KDB		
BRANCH MANAGER				
CHIEF ENG/ARCH		EJA		
FIRE PROTECTION				
DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC		
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC		NAVAL STATION, WAREHO, VIRGINIA		
MARINE CORPS		U.S. MARINE CORPS		
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL		CAMP LEJUNE, N.C.		
PARTIAL MECHANICAL HVAC DEMOLITION PLAN		LEVEL 1 - AREA A2		
SCALE:		AS NOTED		
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CONSTR. CONTR. NO.				
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MD101-A2				
DRAWING REVISION: 31 JANUARY 2017				



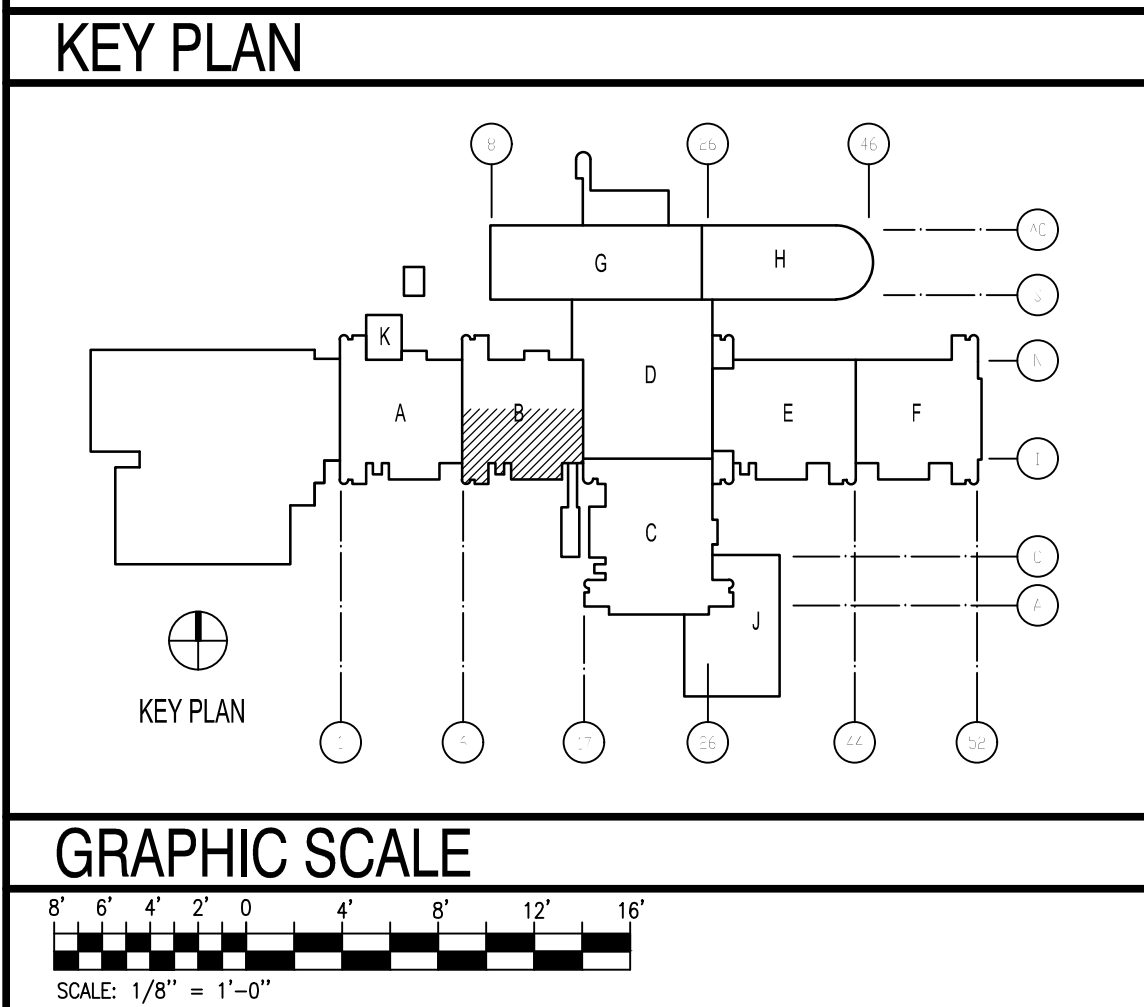






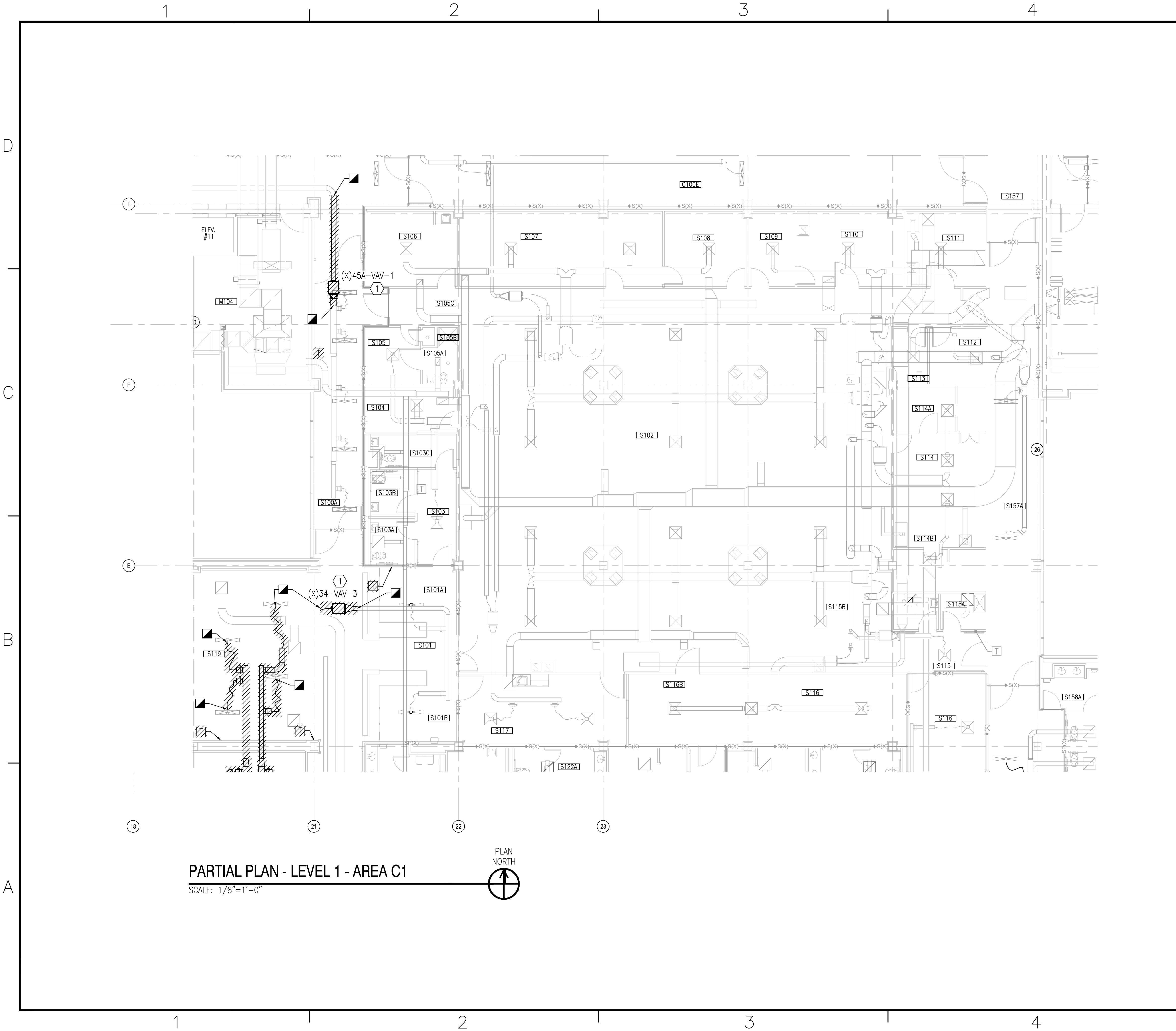
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ACTIVITY	DESCRIPTION	0
LT David Hartley via Email		
SATISFACTORY TO	DATE	05/21/2019
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PM/DM	DWB/KDB	
BRANCH MANAGER		
CHIEF ENG/ARCH	EJA	
FIRE PROTECTION		
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	NAVAL STATION, WAREHOUSING, WAREHOUSE
NAVAL FACILITIES ENGINEERING COMMAND	MIDATLANTIC	CAMP LEJUNE, N.C.
U.S. MARINE CORPS	REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL	PARTIAL MECHANICAL HVAC DEMOLITION PLAN
U.S. MARINE CORPS	CAMP LEJUNE, N.C.	LEVEL 1 - AREA B2
SCALE:	AS NOTED	
PROJECT NO.:		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.	12790407	
SHEET	8	OF 196
MD101-B2		
DRAWING REVISION: 31 JANUARY 2017		





PARTIAL PLAN - LEVEL 1 - AREA C1

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



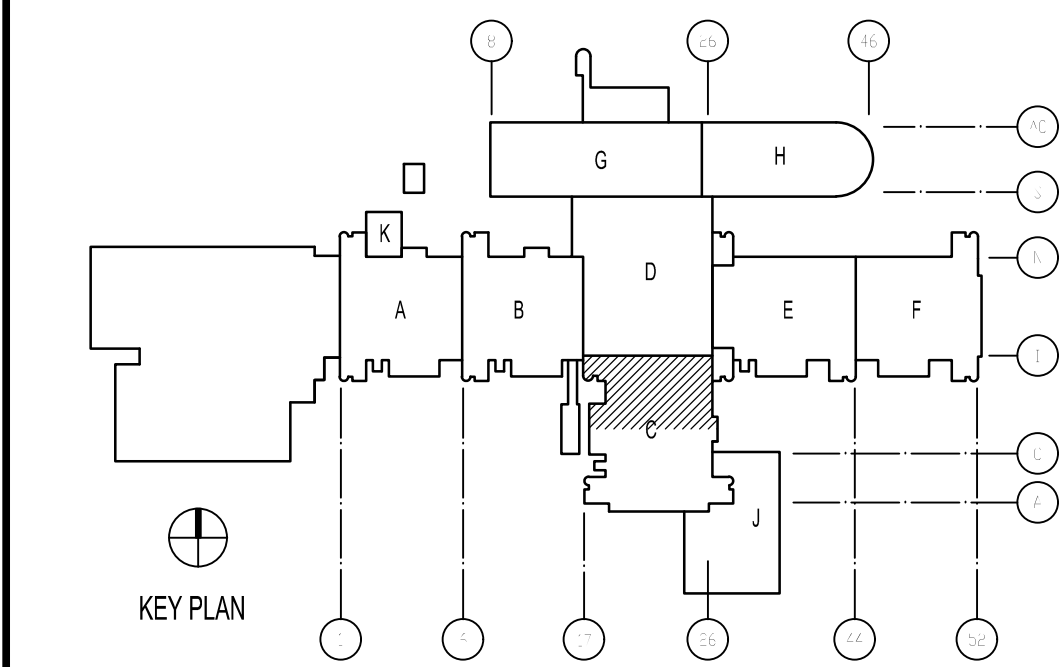
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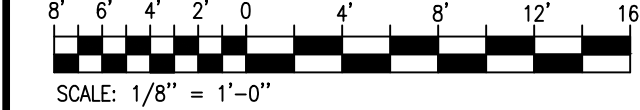
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## KEY PLAN

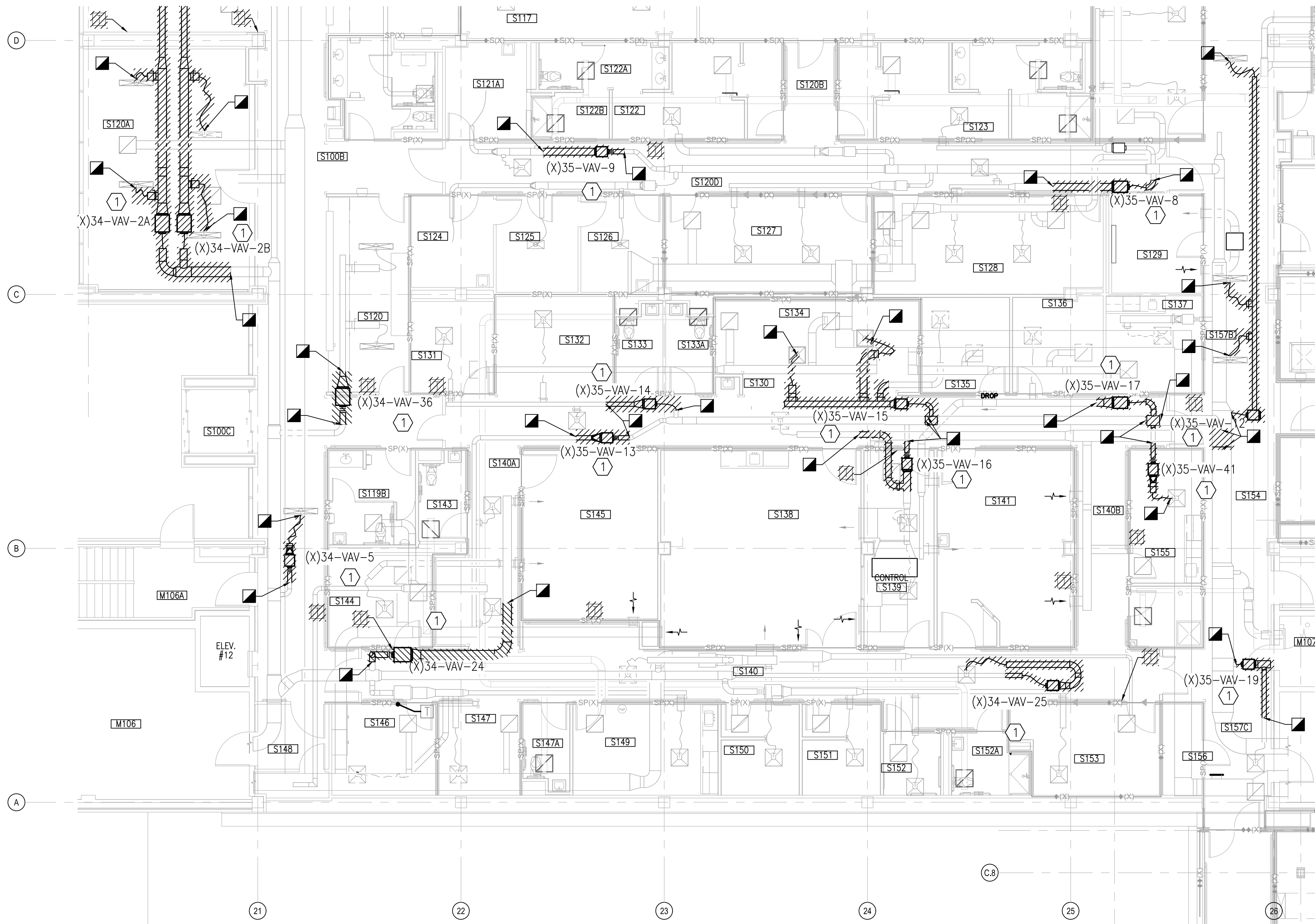


## GRAPHIC SCALE



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SATISFACTORY TO		DATE	05/21/2019	
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DES	TOG	DRW	WTB	CHK
BRANCH MANAGER				
CHIEF ENG/ARCH		EJA		
FIRE PROTECTION				
NAVAL FACILITIES ENGINEERING COMMAND		REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL		
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC		CAMP LEJEUNE, N.C.		
NAVAL STATION, WAREHO, VIRGINIA		PARTIAL MECHANICAL HVAC DEMOLITION PLAN		
U.S. MARINE CORPS		LEVEL 1 - AREA C1		
MARINE CORP IPT				
SCALE:		AS NOTED		
EPROJECT NO.:				
CONSTR. CONTR. NO.				
NAVFAC DRAWING NO.		12790408		
SHEET		9 OF 196		
DRAWING REVISION:		31 JANUARY 2017		





PARTIAL PLAN - LEVEL 1 - AREA C2

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



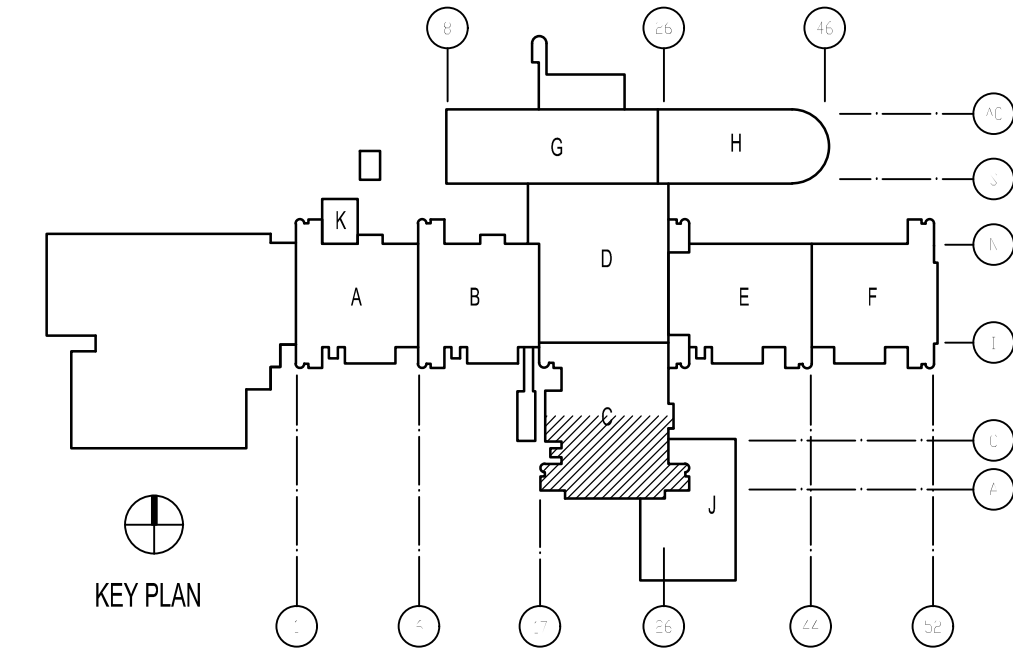
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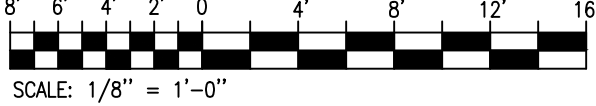
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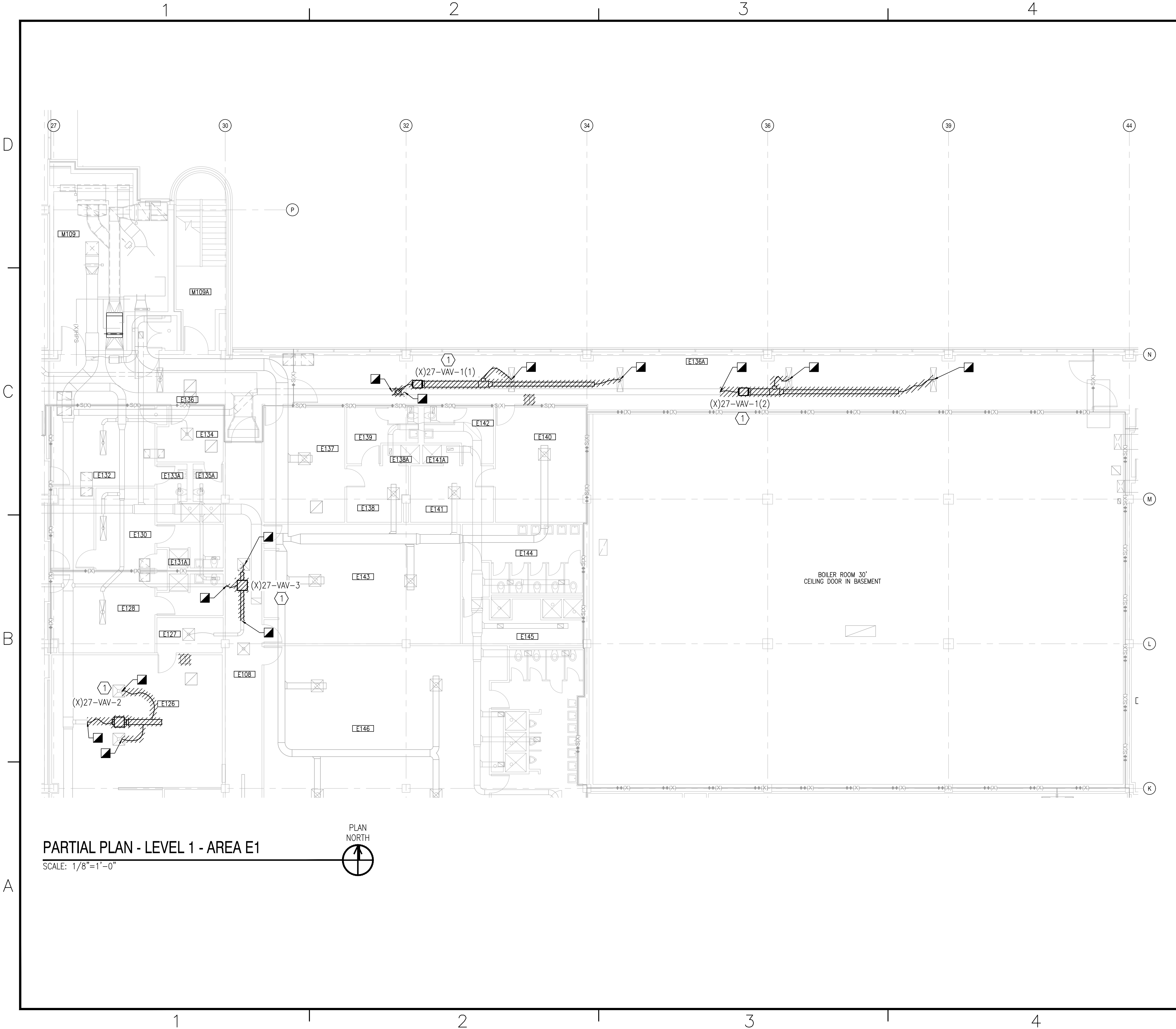


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PM/DM DWB/KDB	BRANCH MANAGER	
CHIEF ENG/ARCH EJA	FIRE PROTECTION	
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL
NAVAL FACILITIES ENGINEERING COMMAND	NAVAL STATION, WAREHO, VIRGINIA	CAMP LEJEUNE, N.C.
MARINE CORPS	U.S. MARINE CORPS	PARTIAL MECHANICAL HVAC DEMOLITION PLAN
		LEVEL 1 - AREA C2
SCALE: AS NOTED	PROJECT NO.:	
CONSTR. CONTR. NO.:		
NAVFAC DRAWING NO. 12790409		
SHEET 10 OF 196		
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DRAWING REVISION: 31 JANUARY 2017		



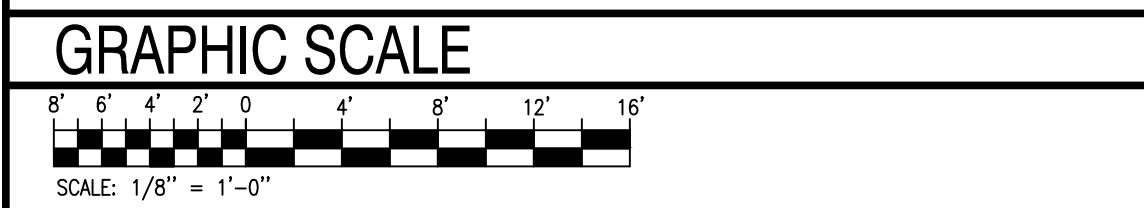
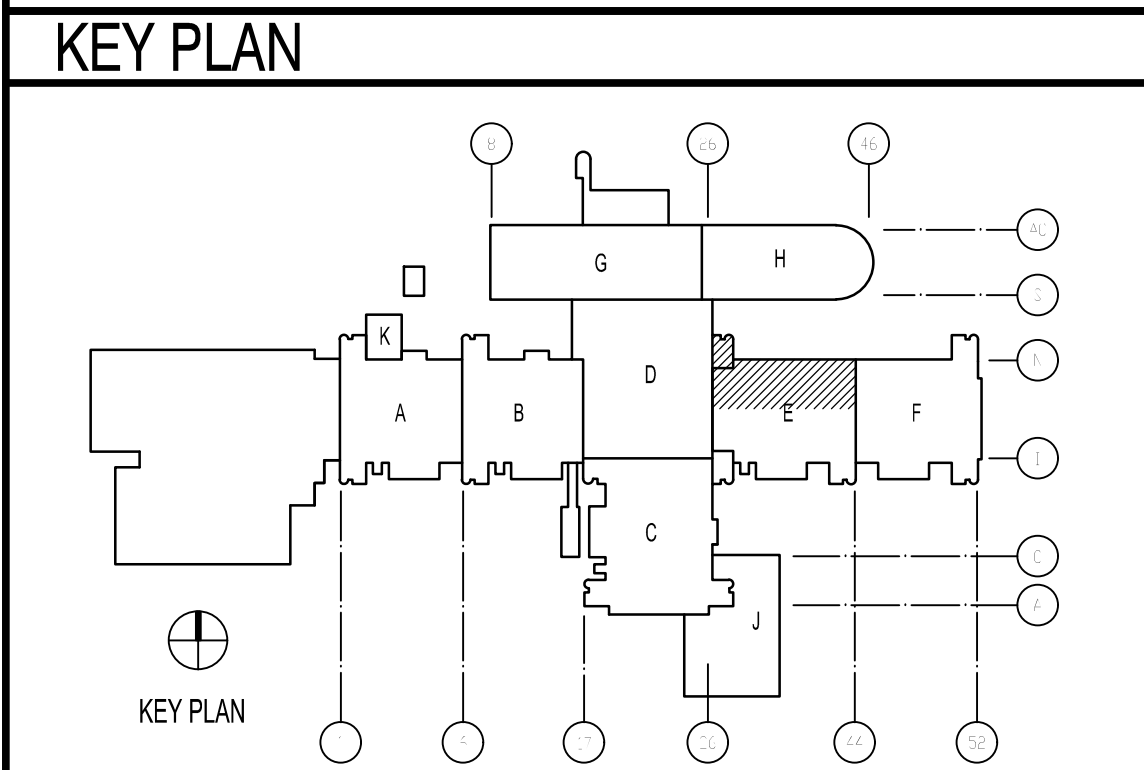






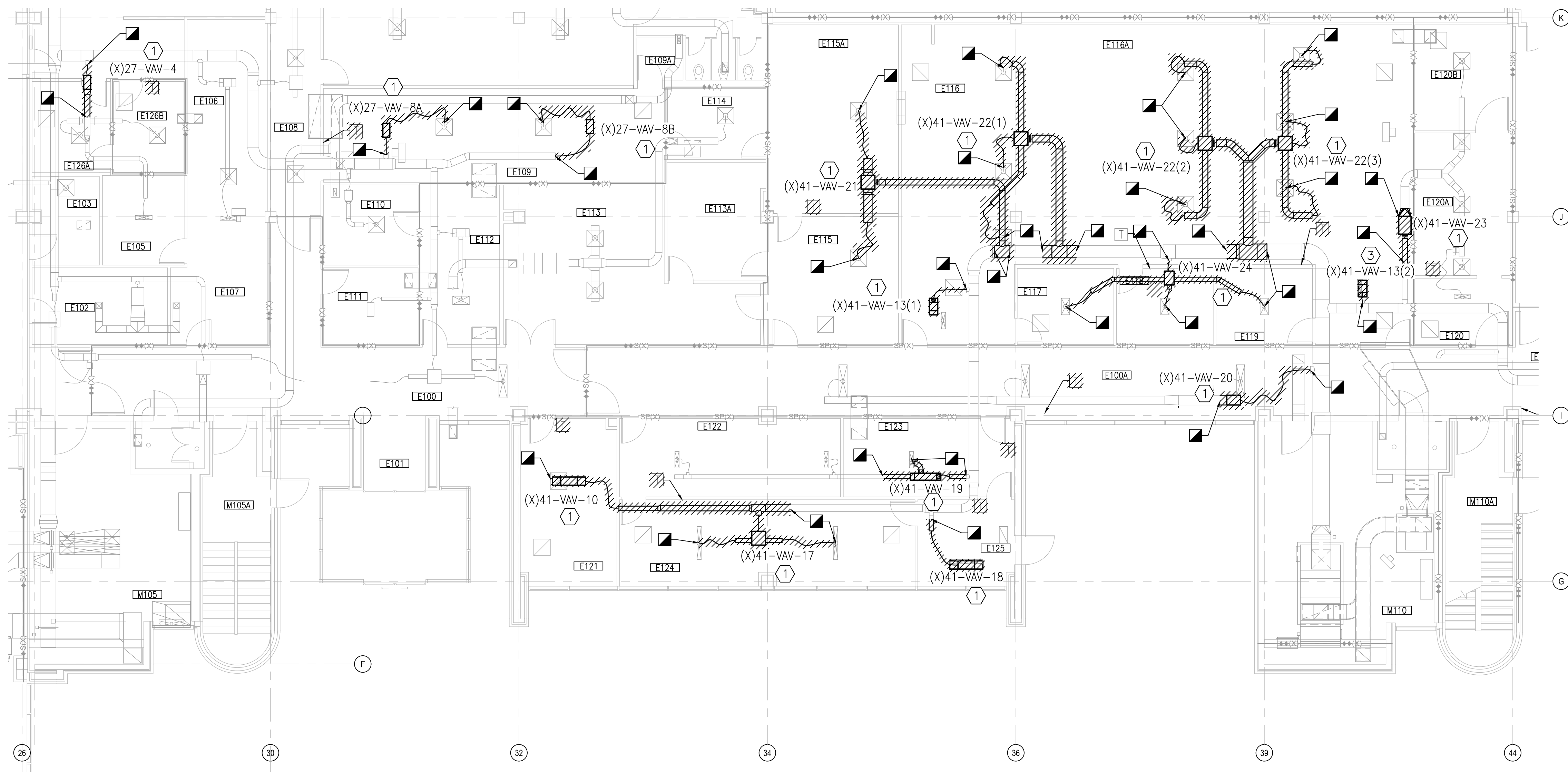
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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC NAVAL STATION, WORTON, VIRGINIA U.S. MARINE CORPS REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL CAMP LEJEUNE, N.C. PARTIAL MECHANICAL HVAC DEMOLITION PLAN LEVEL 1 - AREA E1			
SCALE: AS NOTED PROJECT NO.: CONSTR. CONTR. NO.: NAVFAC DRAWING NO.: 12790411 SHEET 12 OF 196 MD101-E1 DRAWING REVISION: 31 JANUARY 2017			





PARTIAL PLAN - LEVEL 1 - AREA E2

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



KEYED NOTES
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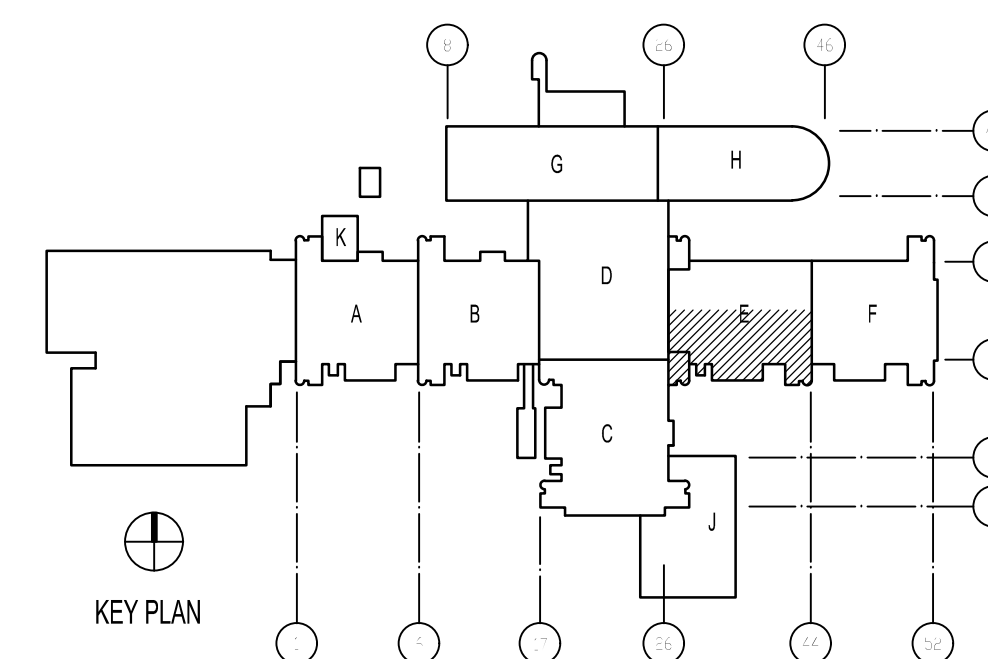
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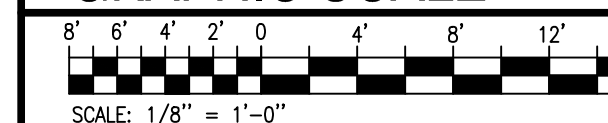
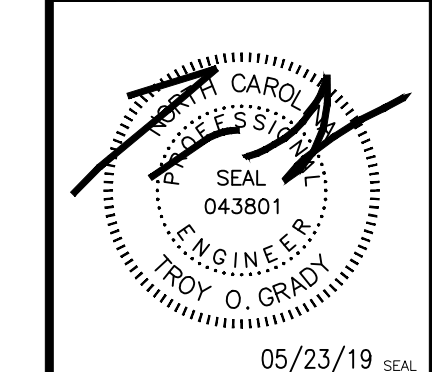
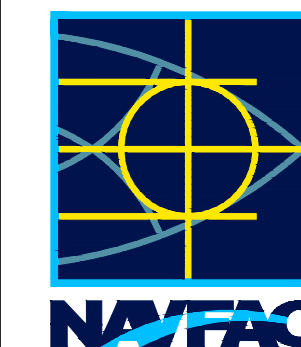
## GENERAL NOTES

1. CONTRACTOR SHALL REPAIR ALL RATED WALL PENETRATIONS NOT RE-USED FOR NEW INSTALLATIONS.

## KEY PLAN



## GRAPHIC SCALE

[illegible]

**CBHF**  
Engineers, PLLC

2246 Yaupon Drive  
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Phone: 910.791.4000  
Fax: 910.791.5266  
[www.cbh-engineers.com](http://www.cbh-engineers.com)

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A.C.E. INC.

APPROVED	DATE
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FOR COMMANDER NAVFAC

ACTIVITY
----------

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES	TOG	DRW	WTB	CHK	TOG
RWD / MDD					

PM/DW	DWB/KDB
BRANCH MANAGER	

CHIEF ENG/ARCH	E.I.A.
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FIRE PROTECTION	LOA
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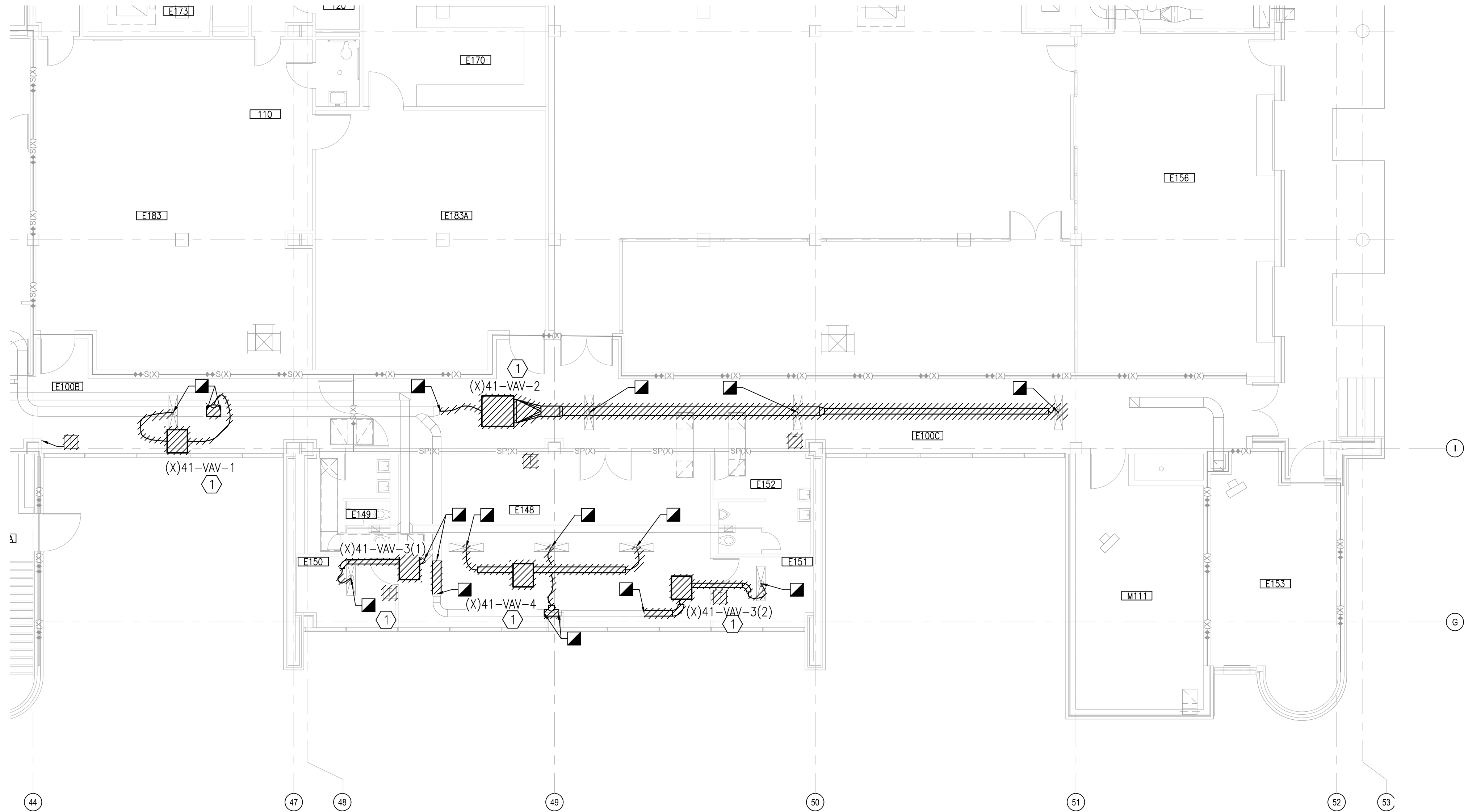
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# ALPS

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PARTIAL PLAN - LEVEL 1 - AREA F2

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



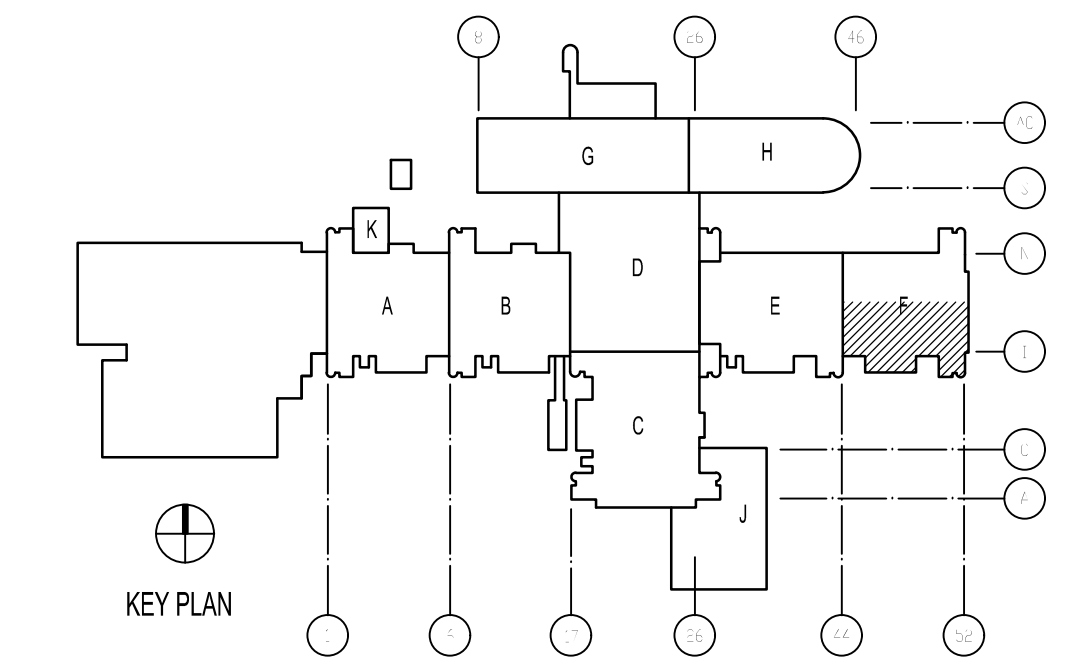
### KEYED NOTES

- 1 REMOVE AND DISPOSE OF EXISTING VAV BOX INCLUDING CONTROLS AND HANGARS. DEMOLISH DUCT TO EXTENT SHOWN.
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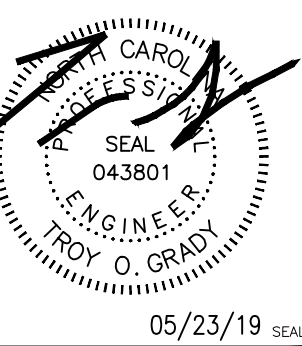
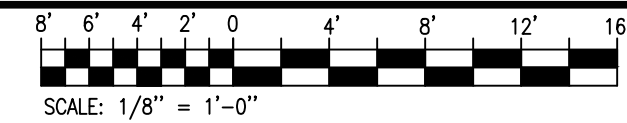
### GENERAL NOTES

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### KEY PLAN



### GRAPHIC SCALE



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FOR COMMANDER NAVFAC

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES TOG DRW WTB CHK TOG

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION

NAVFAC ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC

NAVAL STATION, WAREHO, VIRGINIA

U.S. MARINE CORPS

CAMP LEJUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT

COILS - NH100 NAVAL HOSPITAL

PARTIAL MECHANICAL HVAC DEMOLITION PLAN

LEVEL 1 - AREA F2

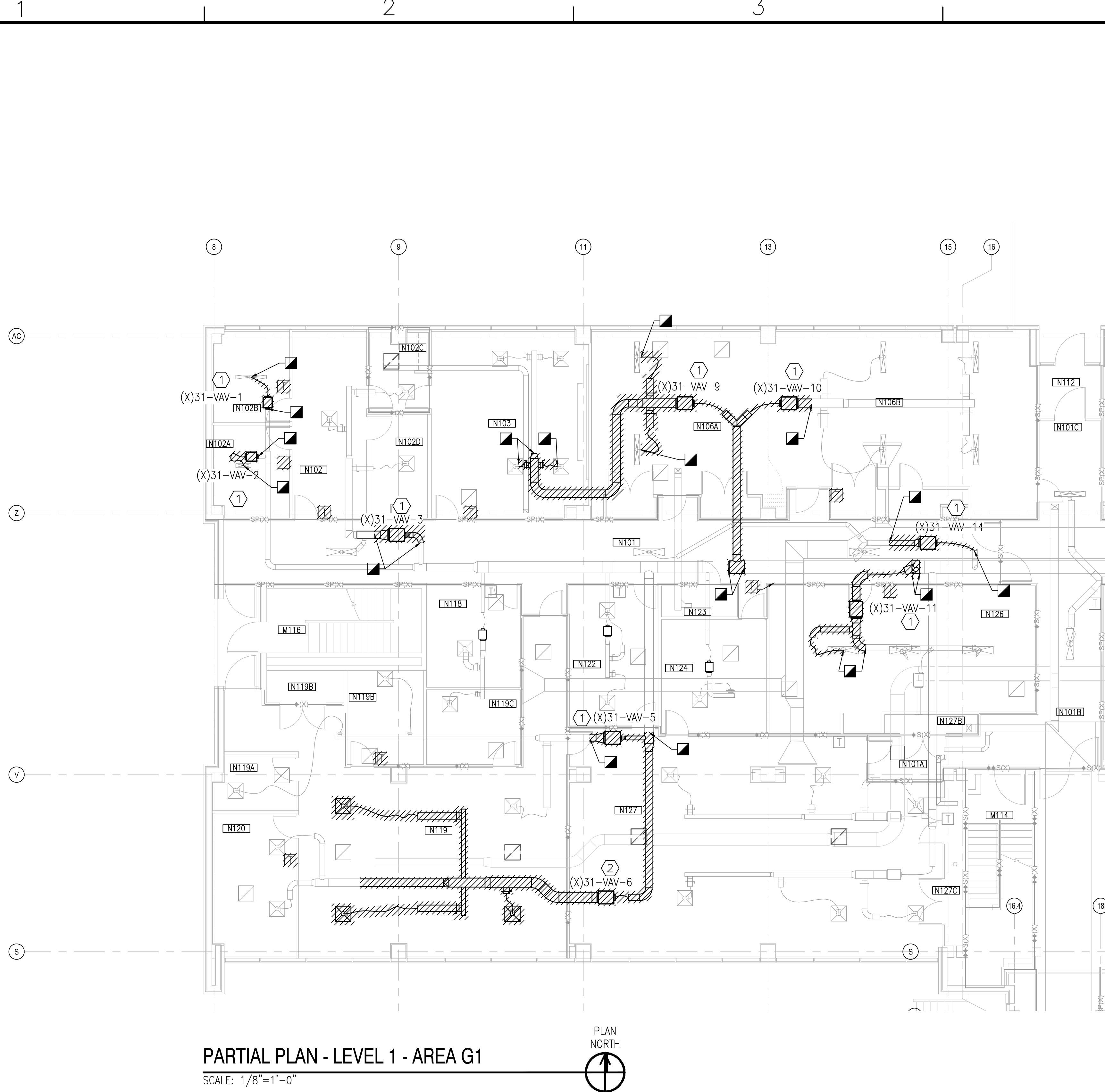
MD101-F2

DRAWING REVISION: 31 JANUARY 2017



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PARTIAL PLAN - LEVEL 1 - AREA G1  
SCALE: 1/8"=1'-0"

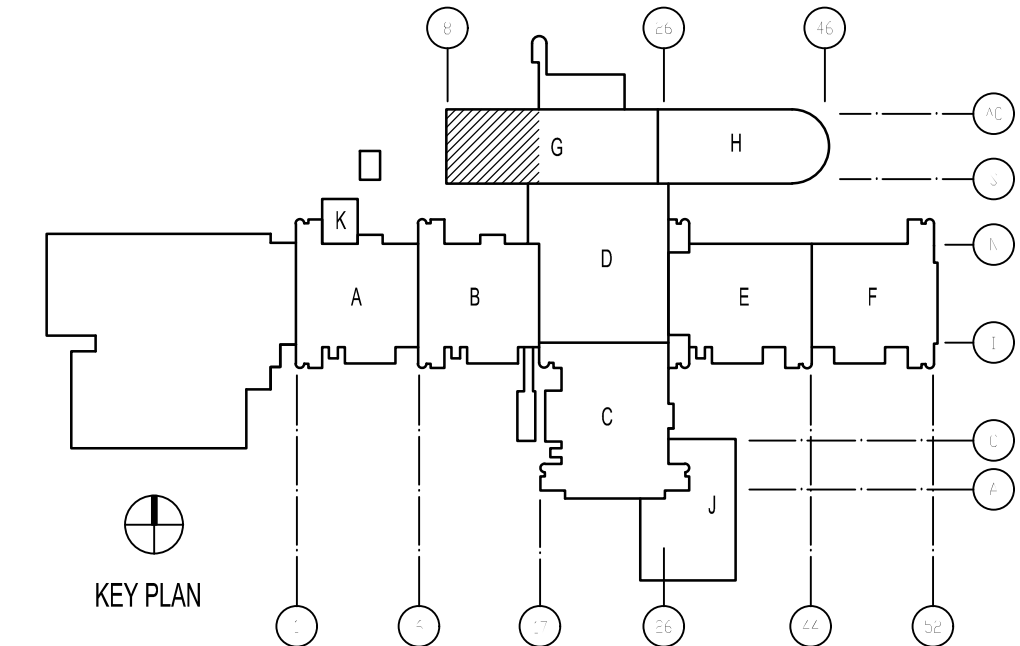
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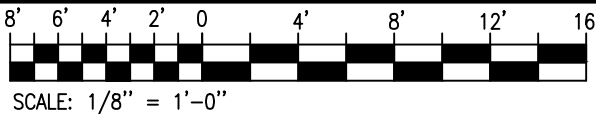
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## KEY PLAN



## GRAPHIC SCALE

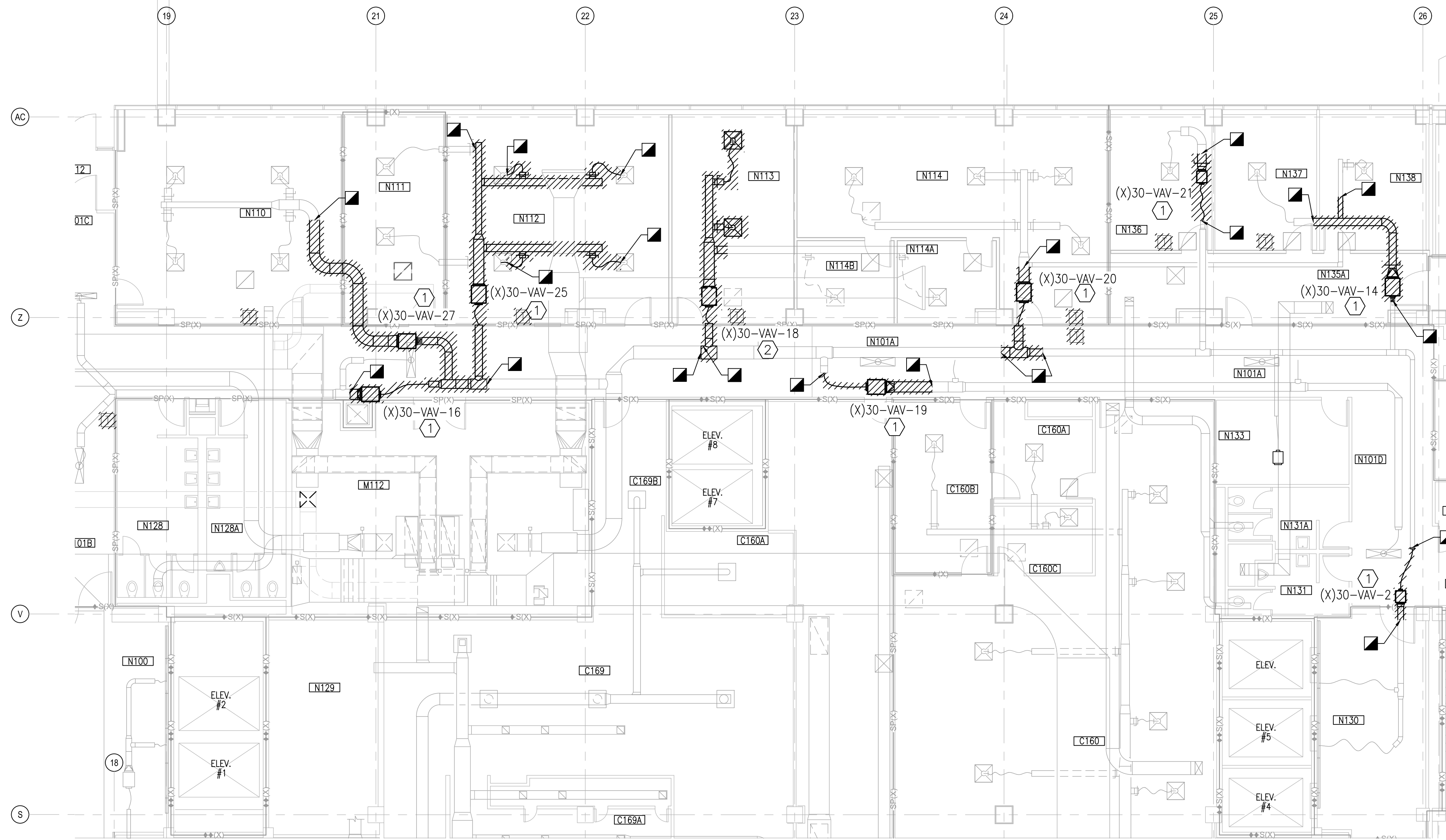


APPROVED	DATE	05/23/19
FOR COMMANDER NAVFAC	DESCRIPTION	ISSUED FOR CONSTRUCTION
ACTIVITY	SYN	0
LT David Hartley via Email	SEAL	05/23/19
SATISFACTORY TO	DATE	05/23/2019
DES TOG	DRW	WTB
CHK	TOG	
PM/DM	DWB/KDB	
BRANCH MANAGER		
CHIEF ENG/ARCH	EJA	
FIRE PROTECTION		
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	NAVAL STATION, WAREHOUSING, WAREHOUSE
NAVAL FACILITIES ENGINEERING COMMAND	MIDATLANTIC	CAMP LEJUNE, N.C.
U.S. MARINE CORPS	REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL	PARTIAL MECHANICAL HVAC DEMOLITION PLAN
LEVEL 1 - AREA G1		
SCALE:	AS NOTED	
PROJECT NO.:		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.	12790414	
SHEET	15	OF 196
MD101-G1		
DRAWING REVISION:	31 JANUARY 2017	



PARTIAL PLAN - LEVEL 1 - AREA G2

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



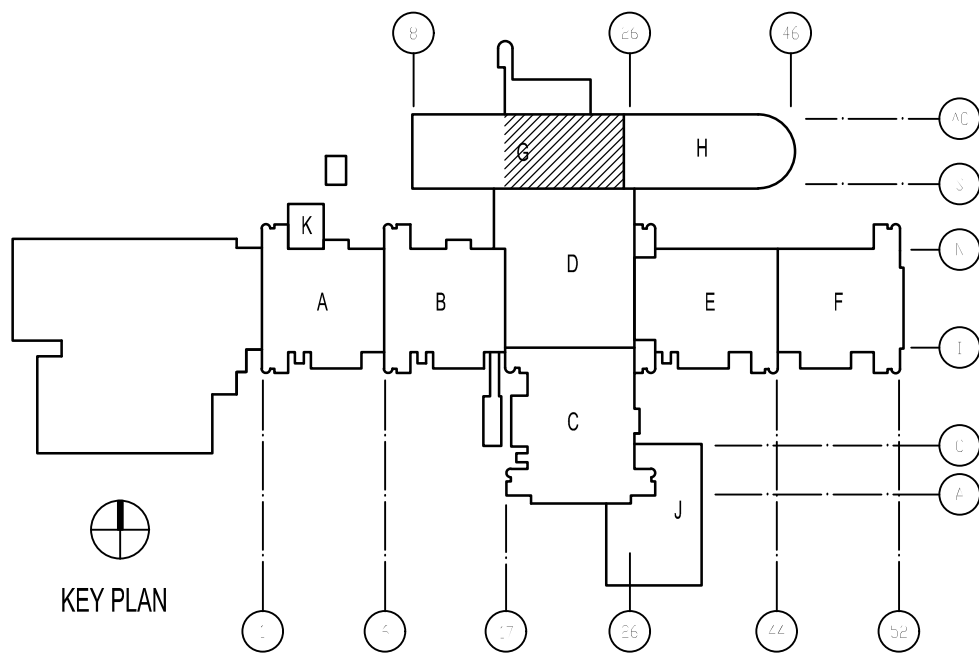
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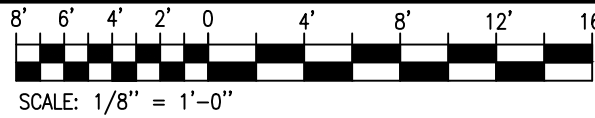
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KEY PLAN

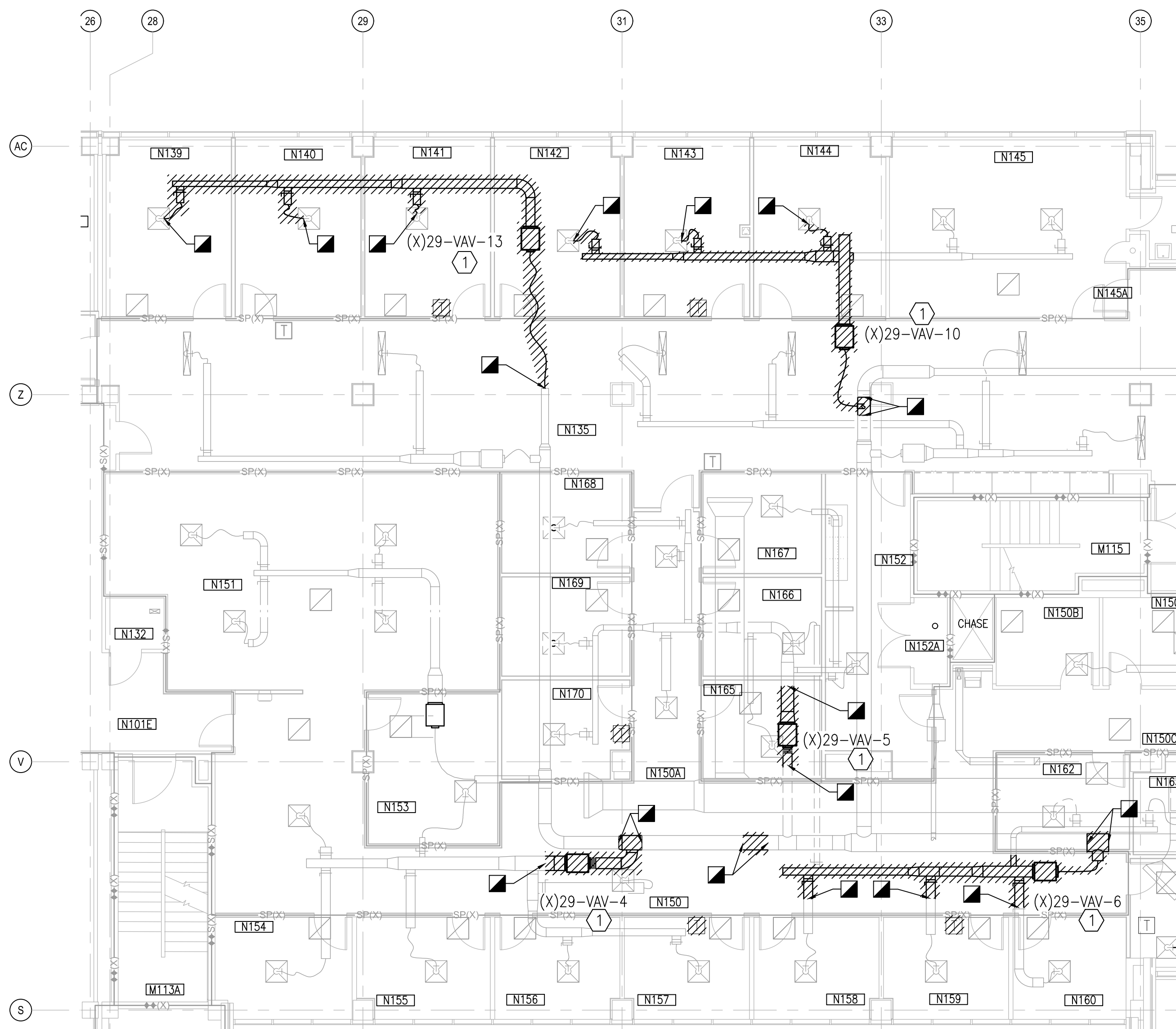


GRAPHIC SCALE



APPROVED	DATE	05/23/19
FOR COMMANDER NAVFAC	DESCRIPTION	ISSUED FOR CONSTRUCTION
ACTIVITY	SYN	0
LT David Hartley via Email	DATE	05/23/2019
DES TOG	DRW	WTB
CHM/DW	KDB	CHM
BRANCH MANAGER		
CHIEF ENG/ARCH		EJA
FIRE PROTECTION		
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
NAVAL STATION, WAREHOUSING, VIRGINIA	NAVAL STATION, WAREHOUSING, VIRGINIA	NAVAL STATION, WAREHOUSING, VIRGINIA
U.S. MARINE CORPS	CAMP LEJEUNE, N.C.	CAMP LEJEUNE, N.C.
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL	PARTIAL MECHANICAL HVAC DEMOLITION PLAN	PARTIAL MECHANICAL HVAC DEMOLITION PLAN
LEVEL 1 - AREA G2		
SCALE: AS NOTED		
PROJECT NO.:		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.		
12790415		
SHEET 16	OF 196	
MD101-G2		
DRAWING REVISION: 31 JANUARY 2017		





PARTIAL PLAN - LEVEL 1 - AREA H1

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



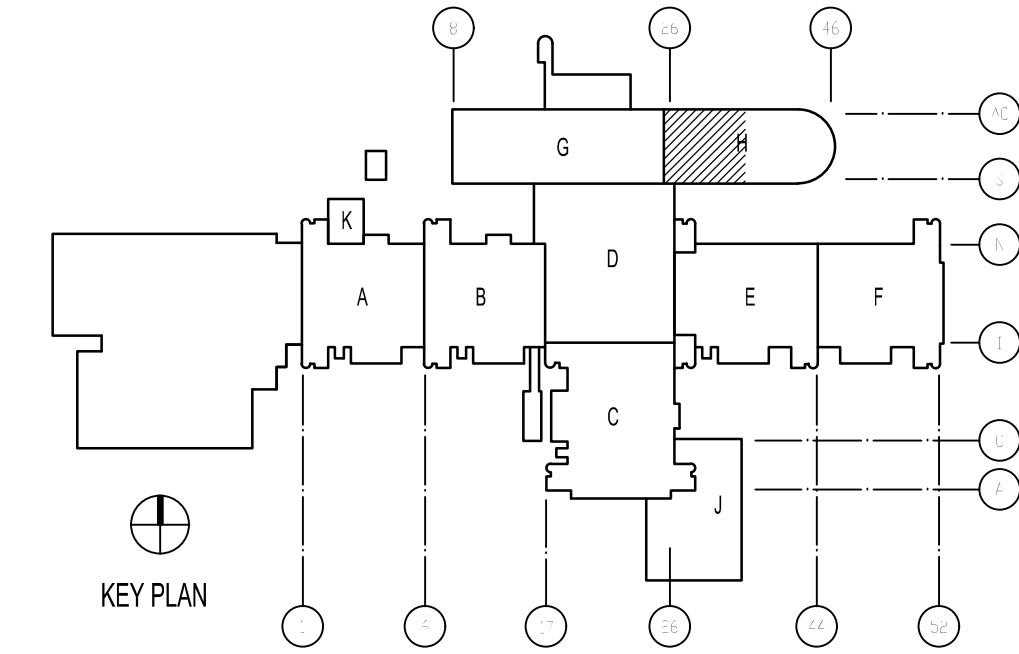
KEYED NOTES

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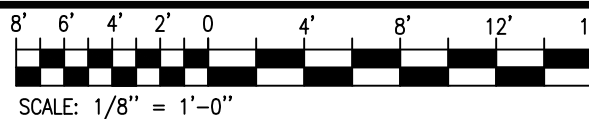
GENERAL NOTES

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KEY PLAN



GRAPHIC SCALE



APPR	DATE	05/23/19
SYN	DESCRIPTION	ISSUED FOR CONSTRUCTION
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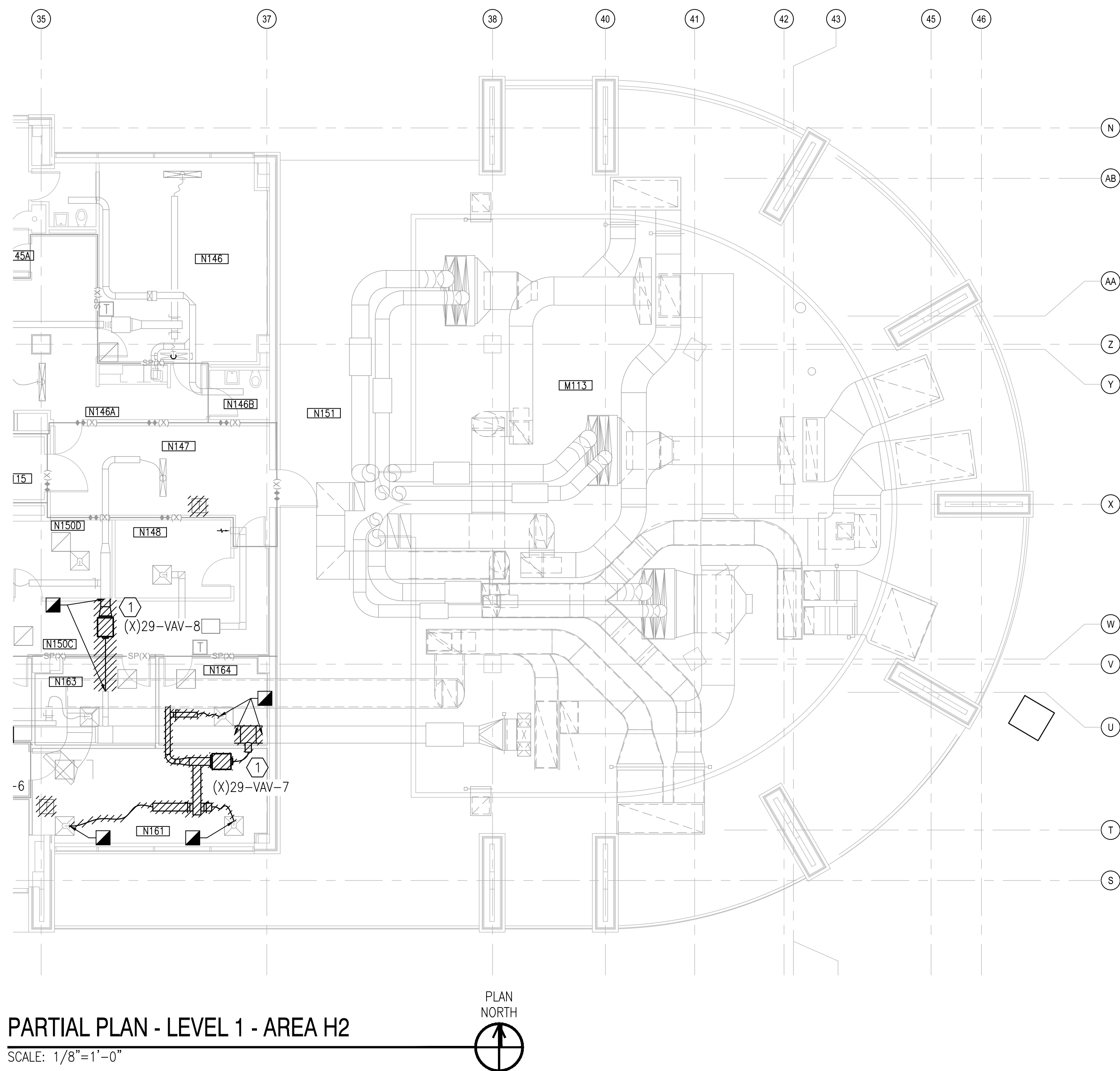
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NCE #45916  
A/E INFO

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FOR COMMANDER NAVFAC	
ACTIVITY	
LT David Hartley via Email	
SATISFACTORY TO	DATE: 05/21/2019
DES	TOG
DRW	WTB
CHK	TOG
PM/DM	DWB/KDB
BRANCH MANAGER	
CHIEF ENG/ARCH	EJA
FIRE PROTECTION	

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL STATION, WAREHOUSING, WAREHOUSE  
MARINE CORPS  
U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL HVAC DEMOLITION PLAN  
LEVEL 1 - AREA H1

SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790416
SHEET	17 OF 196
MD101-H1	
DRAWING REVISION: 31 JANUARY 2017	





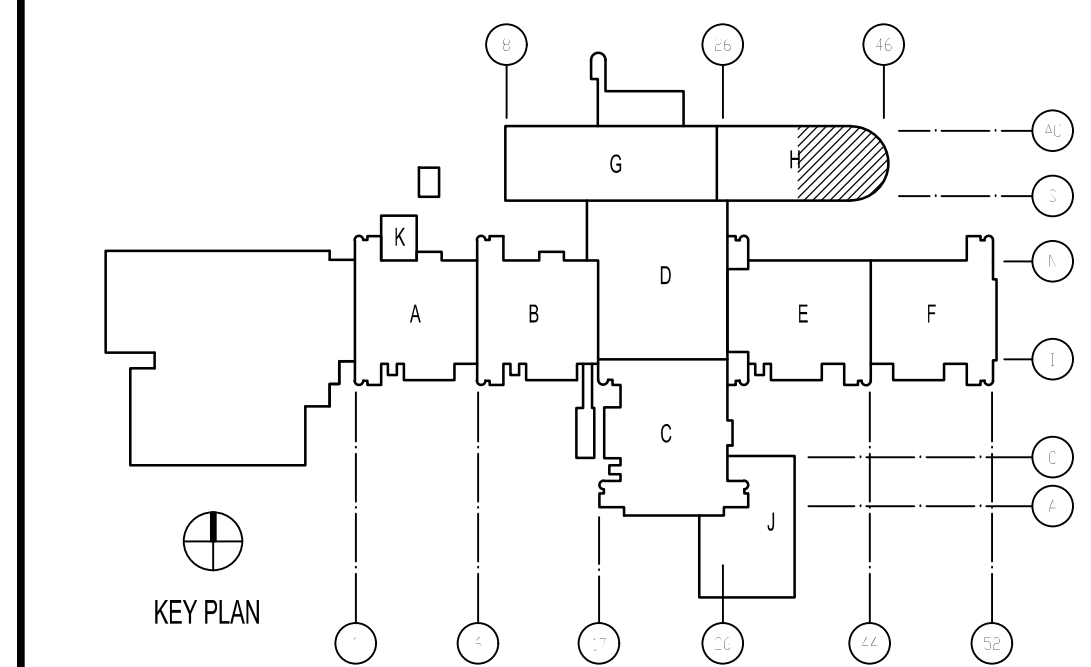
## KEYED NOTES

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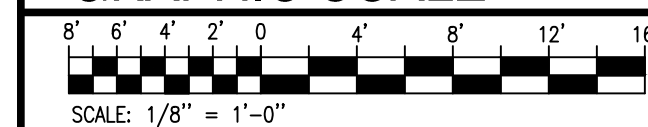
## GENERAL NOTES

1. CONTRACTOR SHALL REPAIR ALL RATED WALL PENETRATIONS NOT RE-USED FOR NEW INSTALLATIONS.

## KEY PLAN



## GRAPHIC SCALE

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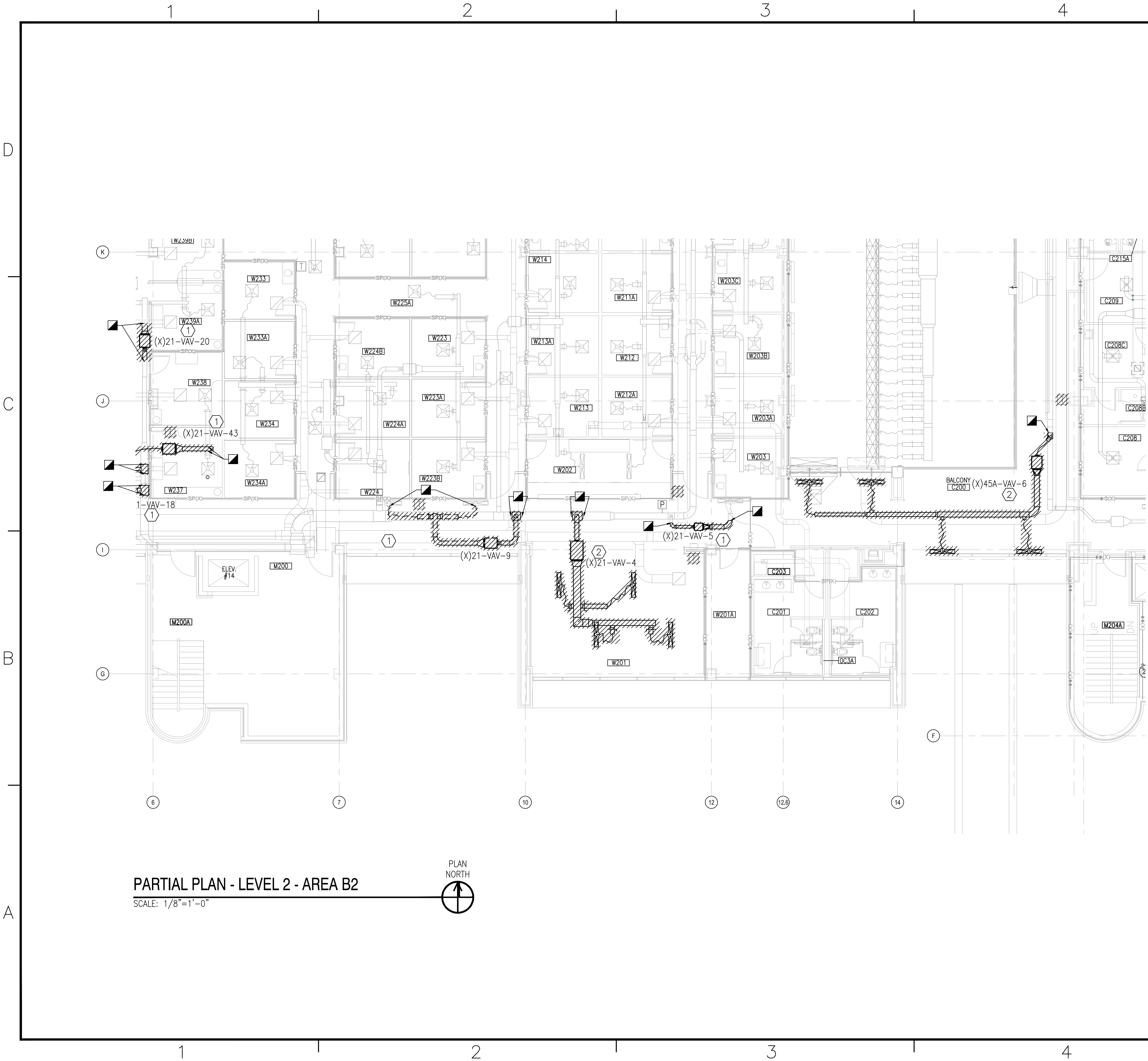












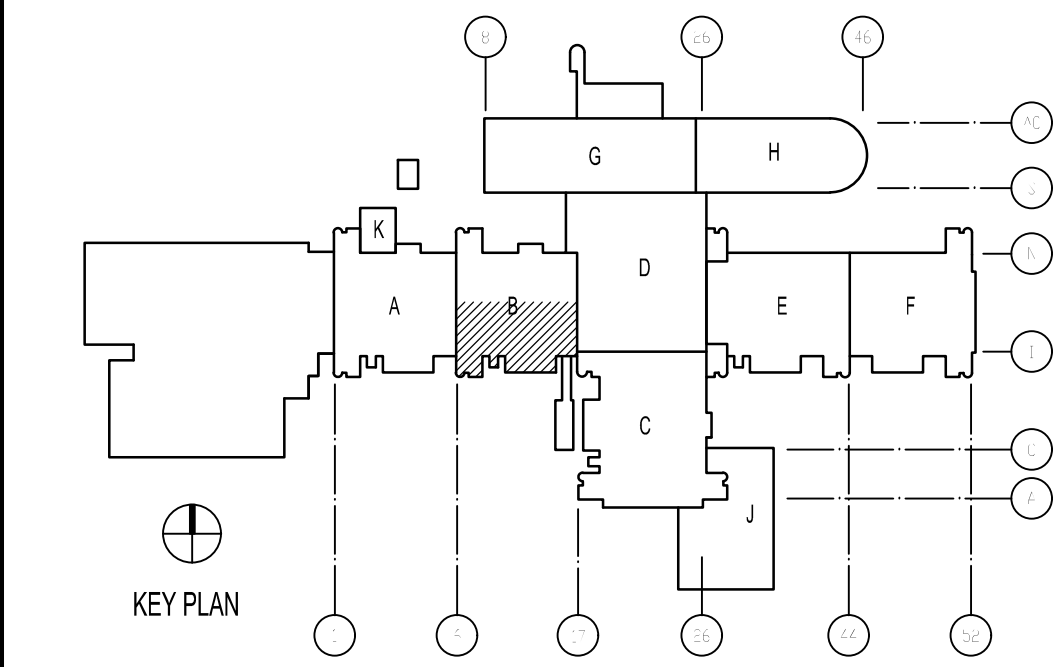
### KEYED NOTES

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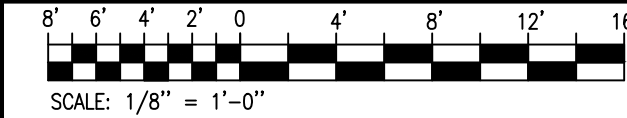
### GENERAL NOTES

1. CONTRACTOR SHALL REPAIR ALL RATED WALL PENETRATIONS NOT RE-USED FOR NEW INSTALLATIONS.

### KEY PLAN

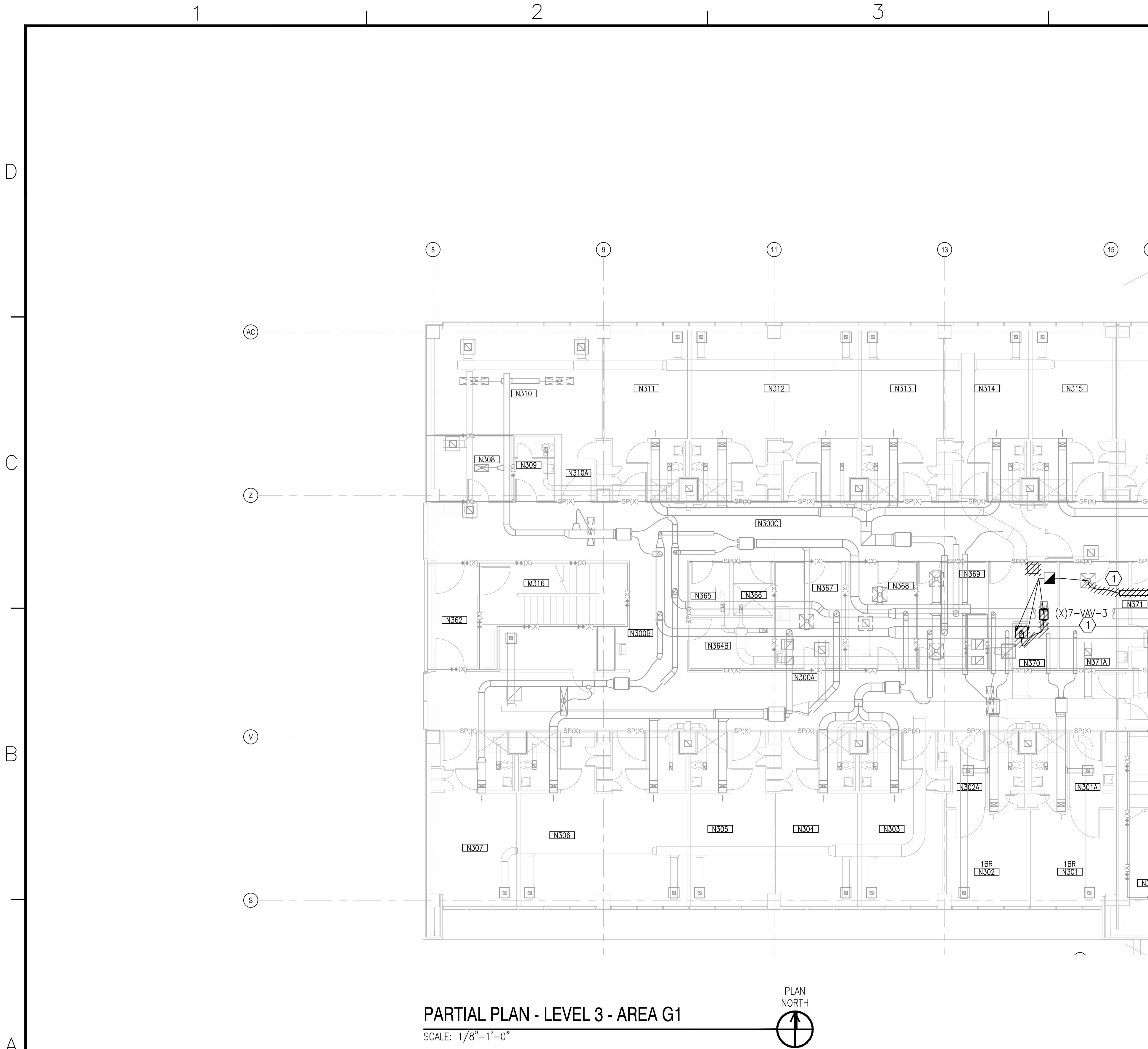


### GRAPHIC SCALE



APPROVED	DATE	05/23/19
FOR COMMANDER NAVFAC	DESCRIPTION	ISSUED FOR CONSTRUCTION
ACTIVITY	SYN	0
LT David Hartley via Email	DATE	05/23/2019
SATISFACTORY TO	DES	WTB
DES	WTB	DRW
PM/DM	DWB	KDB
BRANCH MANAGER	CHIEF ENG/ARCH	EJA
CHIEF ENG/ARCH	FIRE PROTECTION	
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	MIDATLANTIC
NAVAL FACILITIES ENGINEERING COMMAND	NAVAL STATION, WAREHOUSING, VIRGINIA	
U.S. MARINE CORPS	CAMP LEJEUNE, N.C.	
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL	PARTIAL MECHANICAL HVAC DEMOLITION PLAN	
LEVEL 2 - AREA B2		
SCALE	AS NOTED	
PROJECT NO.		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.	12790421	
SHEET	22	OF 196
MD102-B2		
DRAWING REVISION: 31 JANUARY 2017		





PARTIAL PLAN - LEVEL 3 - AREA G1  
SCALE: 1/8"=1'-0"

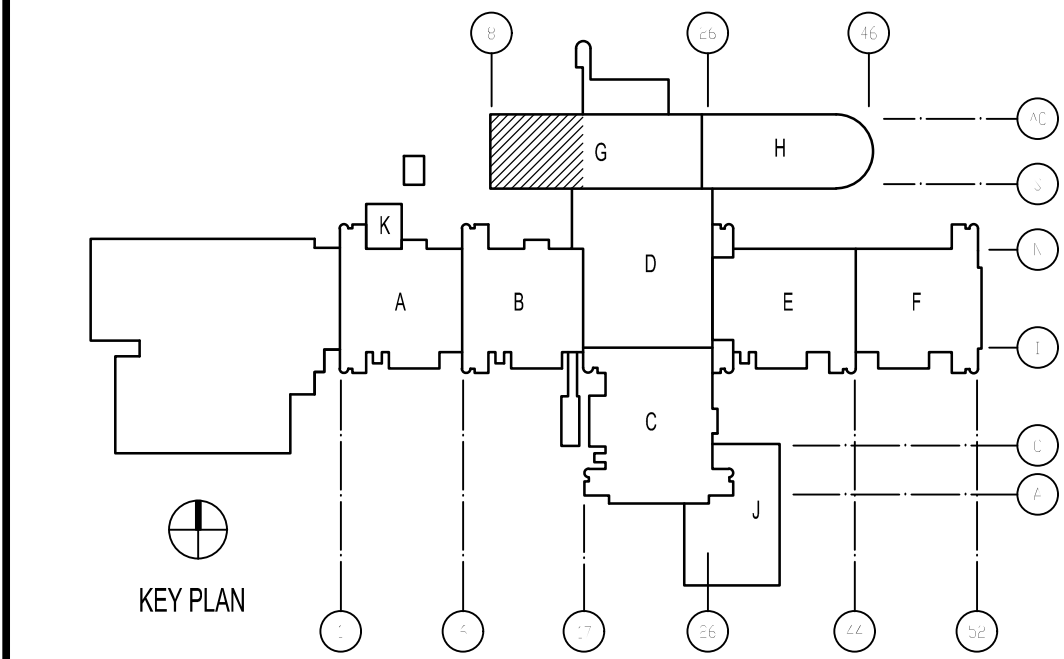
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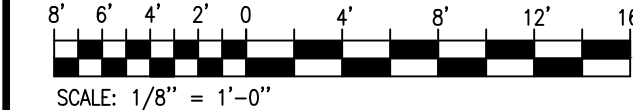
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## KEY PLAN



## GRAPHIC SCALE



APPR	DATE	05/23/19
SYN	DESCRIPTION	ISSUED FOR CONSTRUCTION
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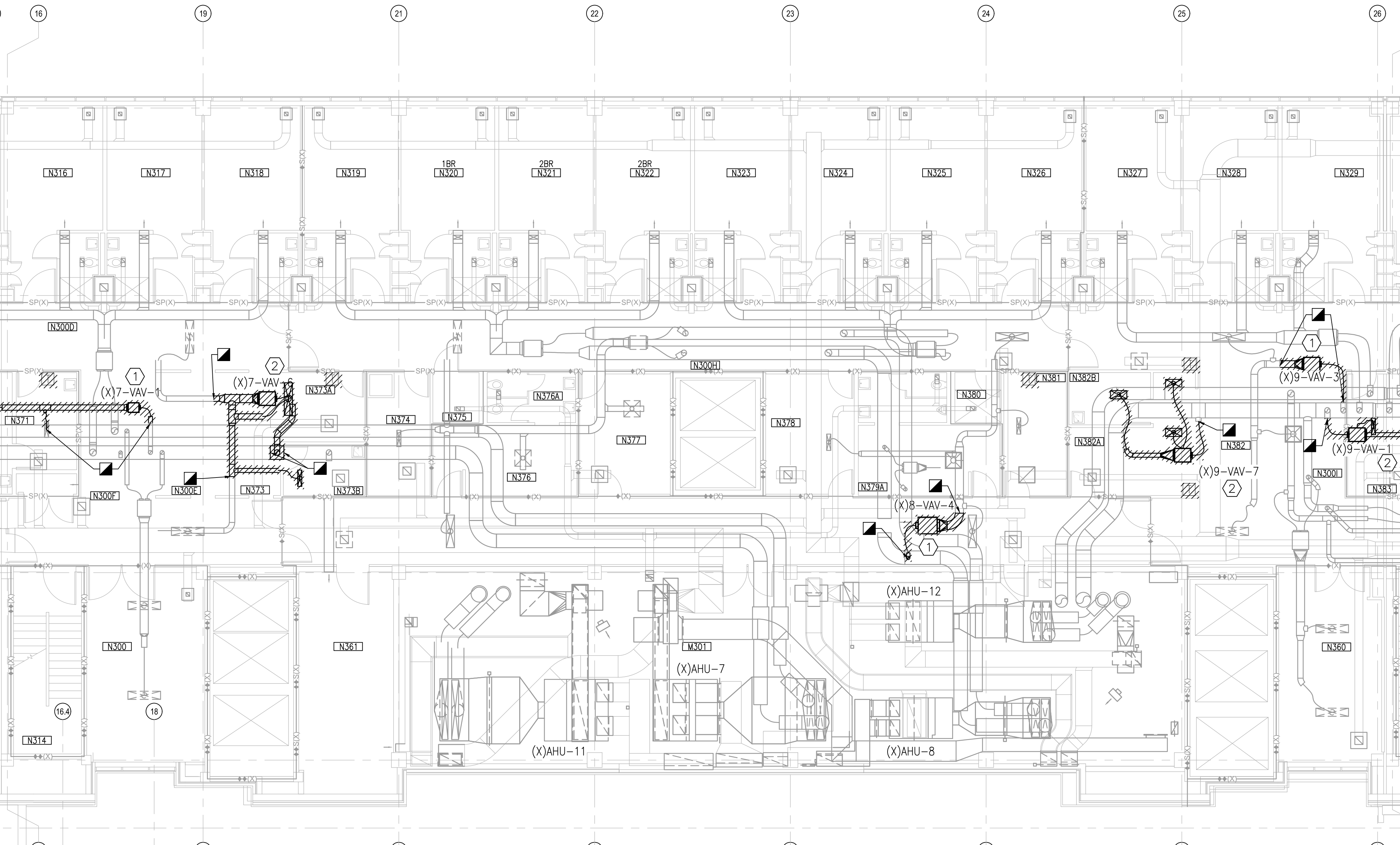
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Wilmington, NC 28401  
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ACTIVITY  
LT David Hartley via Email  
SATISFACTORY TO DATE: 05/21/2019  
DES WTB DRW WTB CHK TOG  
RM/DM DWB/KDB  
BRANCH MANAGER  
CHIEF ENG/ARCH EJA  
FIRE PROTECTION

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC  
MARINE CORPS IPT  
U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.  
**REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL**  
PARTIAL MECHANICAL HVAC DEMOLITION PLAN  
LEVEL 3 - AREA G1

SCALE: AS NOTED  
PROJECT NO.:  
CONSTR. CONTR. NO.:  
NAVFAC DRAWING NO.: 12790422  
SHEET 23 OF 196  
**MD103-G1**  
DRAWING REVISION: 31 JANUARY 2017





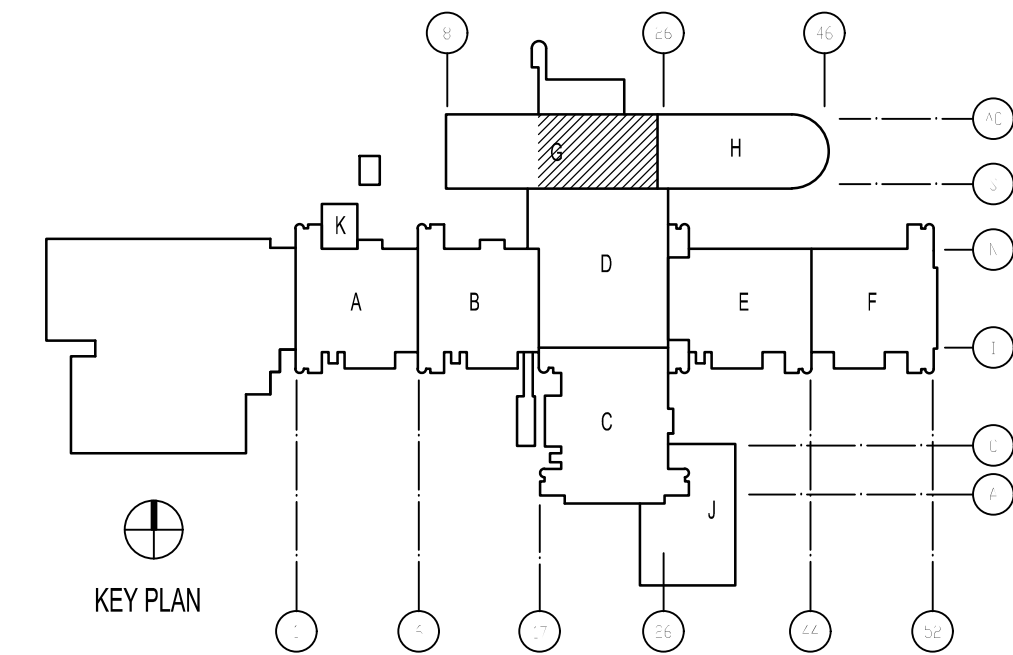
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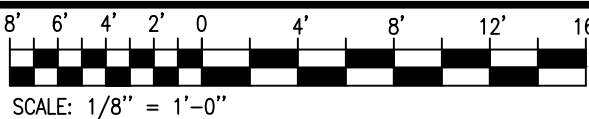
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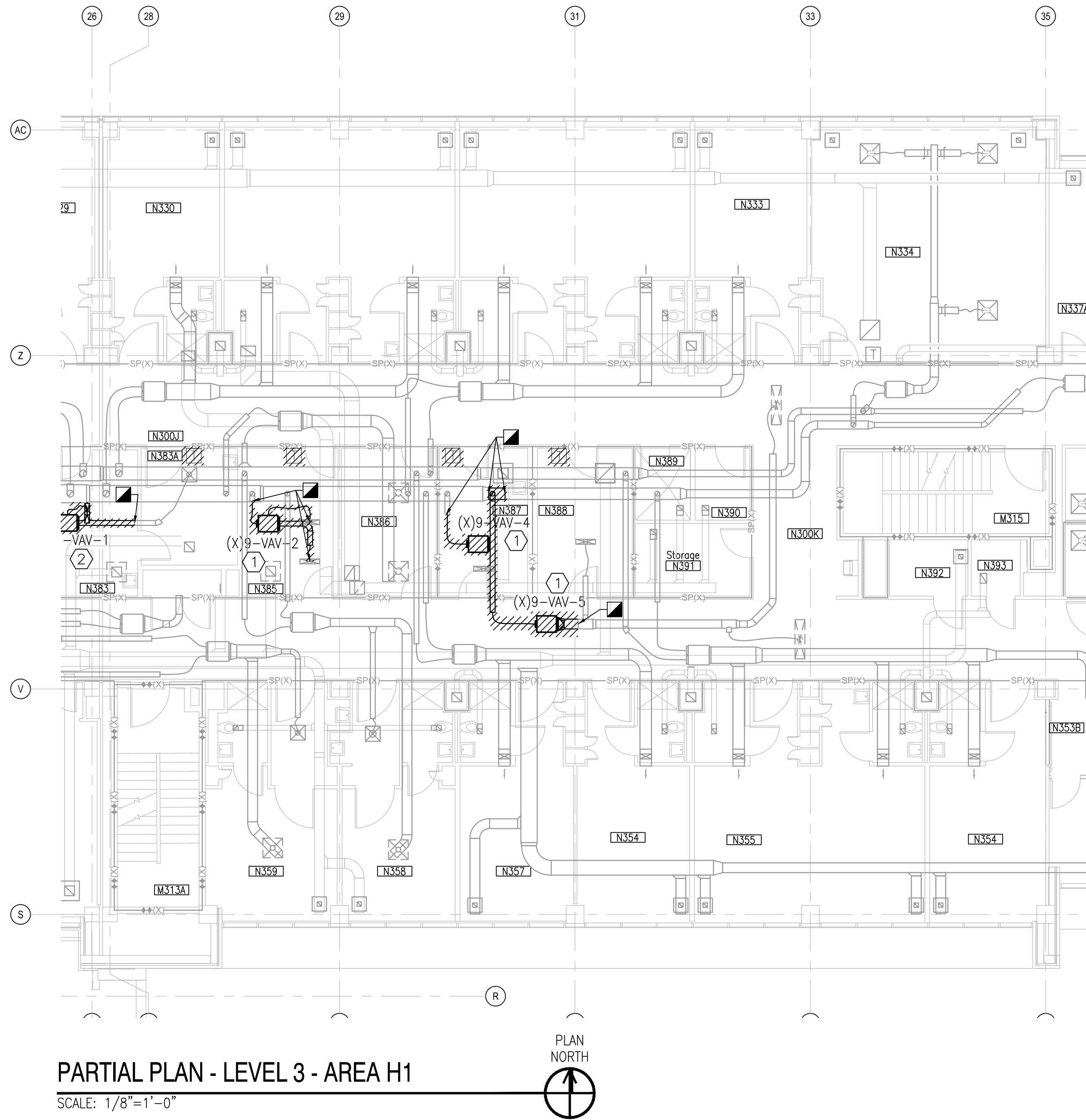
## KEY PLAN



## GRAPHIC SCALE



APPROVED	DATE	05/23/19
FOR COMMANDER NAVFAC	DESCRIPTION	ISSUED FOR CONSTRUCTION
ACTIVITY	SYN	0
LT David Hartley via Email SATISFACTORY TO DATE : 05/21/2019 DES WTB   DRW WTB   CHK TOG PM/DM DWB/KDB BRANCH MANAGER CHIEF ENG/ARCH EJA FIRE PROTECTION		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC NAVAL STATION, WASHINGTON, VIRGINIA U.S. MARINE CORPS REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL CAMP LEJEUNE, N.C. PARTIAL MECHANICAL HVAC DEMOLITION PLAN LEVEL 3 - AREA G2		
SCALE: AS NOTED EPROJECT NO.: CONSTR. CONTR. NO.: NAVFAC DRAWING NO.: 12790423 SHEET 24 OF 196 MD103-G2 DRAWING REVISION: 31 JANUARY 2017		



PARTIAL PLAN - LEVEL 3 - AREA H1  
SCALE: 1/8"=1'-0"

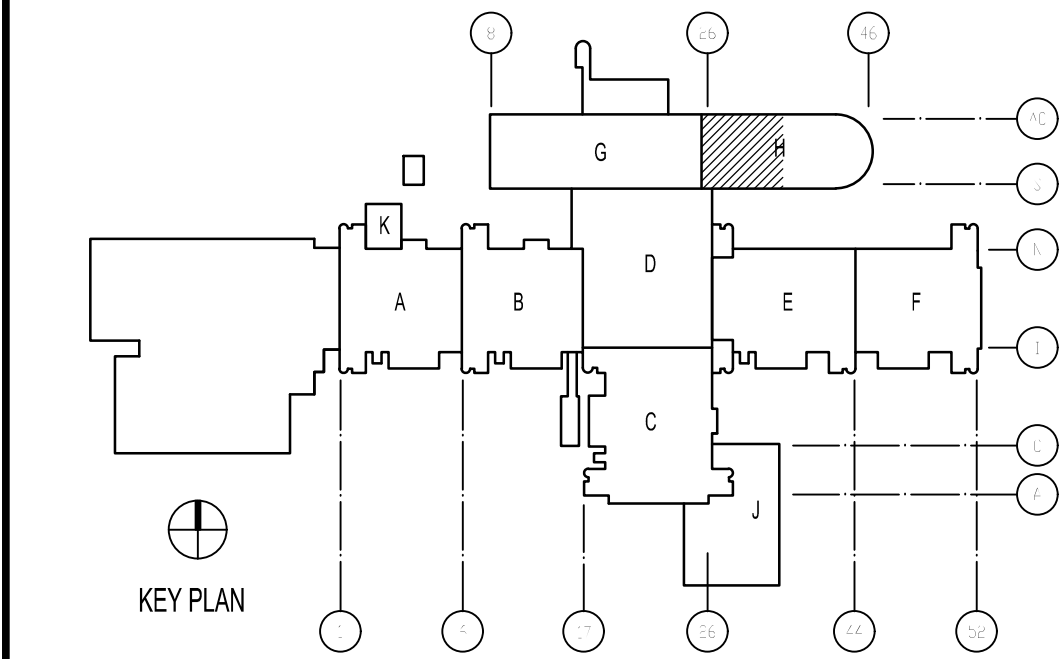
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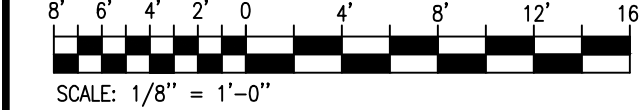
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### KEY PLAN

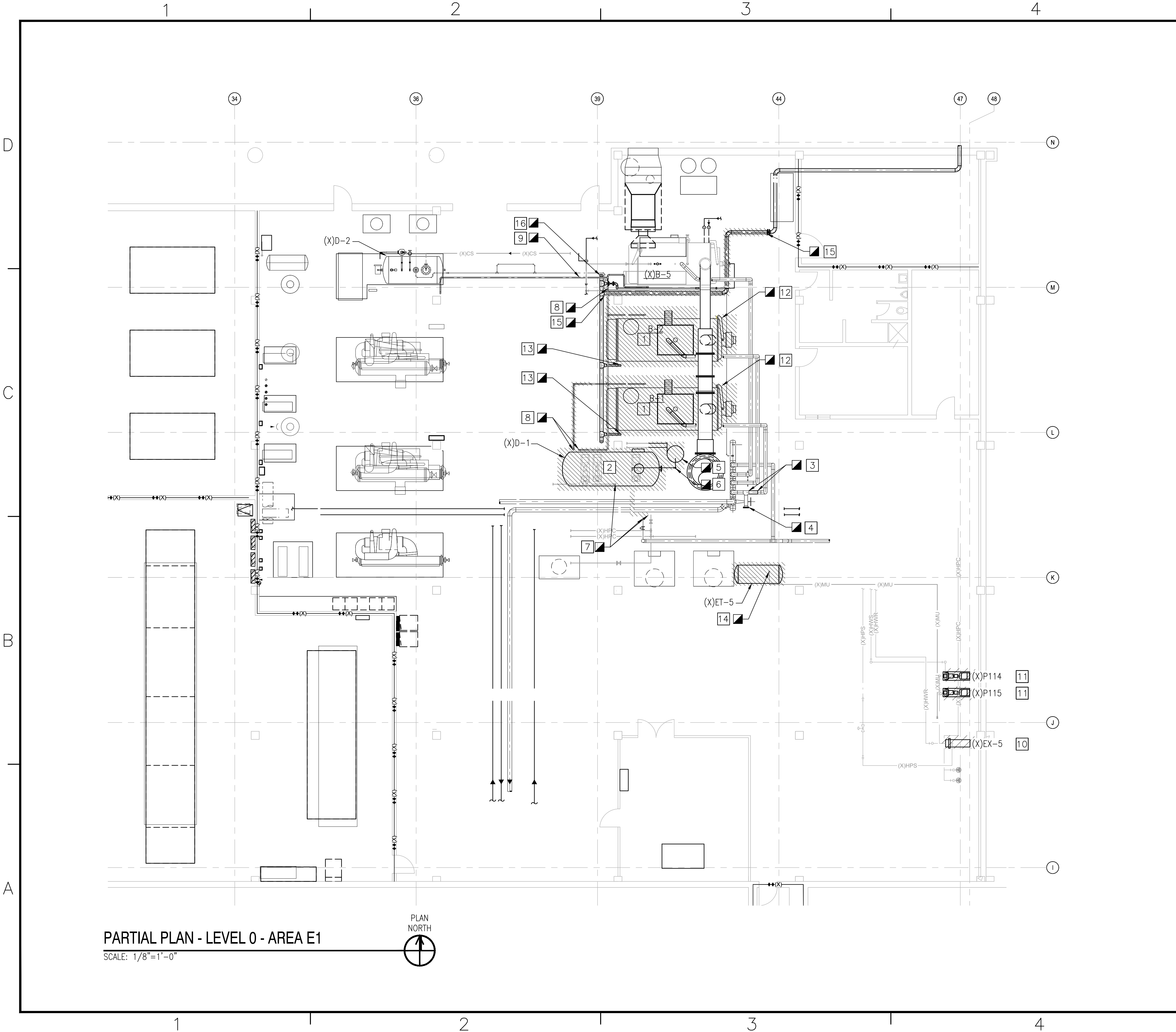


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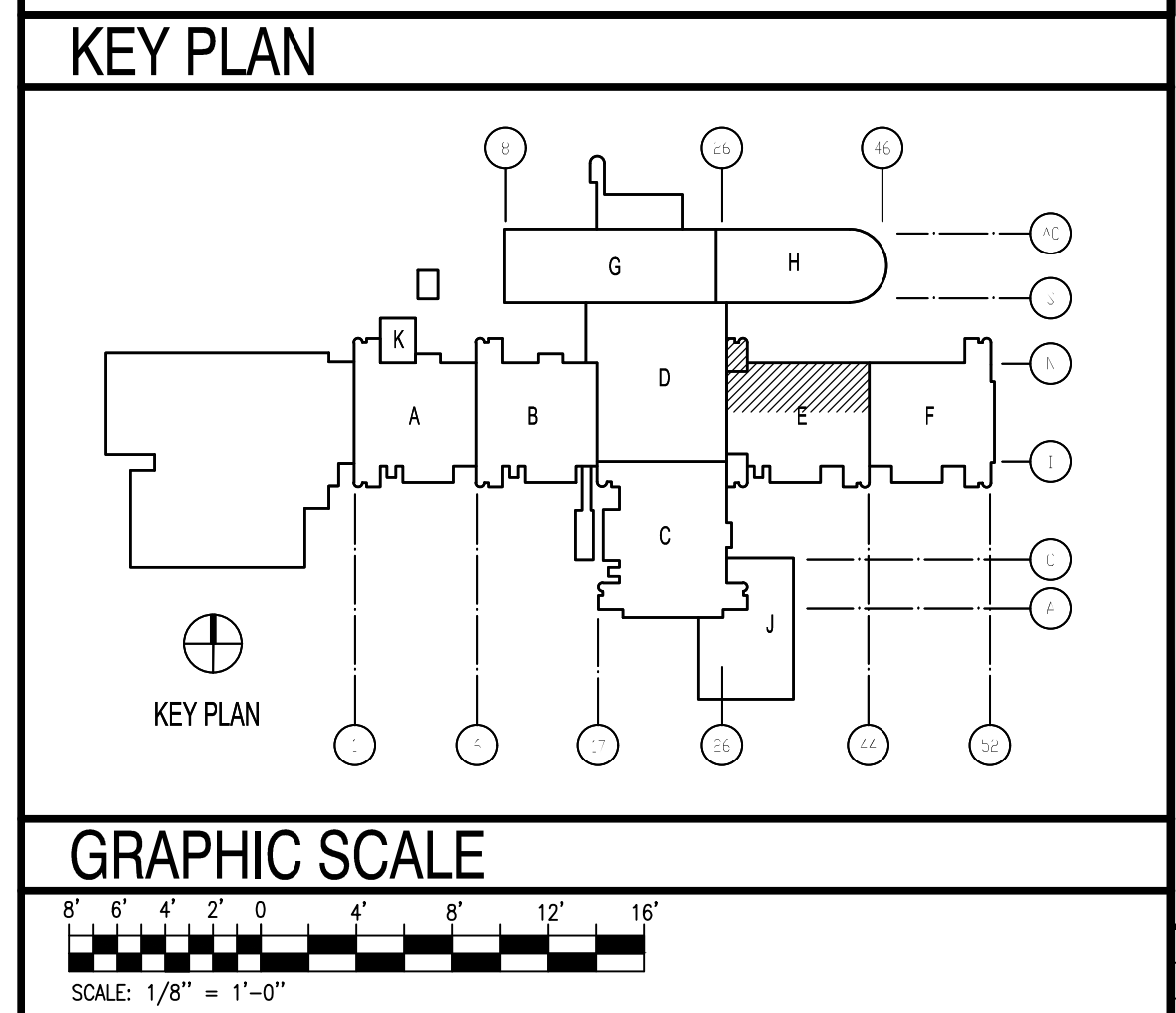


APPR	
05/23/19	DATE
ISSUED FOR CONSTRUCTION	
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DESCRIPTION	
NAFAC	
TROY O. GRADY SEAL 043801 05/23/19 SEAL	
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APPROVED	
FOR COMMANDER NAFAC	
ACTIVITY	
LT David Hartley via Email SATISFACTORY TO DATE: 05/21/2019	
DES	WTB
DRW	WTB
CHK	TOG
PM/DM	DWB/KDB
BRANCH MANAGER	
CHIEF ENG/ARCH	
FIRE PROTECTION	
EJA	
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC NAVAL STATION, WOLFOL, VIRGINIA U.S. MARINE CORPS CAMP LEJUNE, N.C. REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL PARTIAL MECHANICAL HVAC DEMOLITION PLAN LEVEL 3 - AREA H1	
SCALE: AS NOTED	
EPROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO. 12790424	
SHEET 25 OF 196	
MD103-H1	
DRAWFORM REVISION: 31 JANUARY 2017	





- ### KEYED NOTES
- 1 REMOVE EXISTING BOILER. REMOVE HPS PIPING, BFW PIPING AND VENT ASSOCIATED WITH BOILER TO EXTENT SHOWN. PROTECT FOR RECONNECTION TO NEW BOILER.
  - 2 REMOVE EXISTING DEAERATOR SKID AND ASSOCIATED PUMPS, SUPPORTS, PIPING AND VENTING TO EXTENT SHOWN.
  - 3 PREPARE EXISTING 6"-HPS PIPING FOR SHUT-OFF VALVE.
  - 4 REMOVE EXISTING BLIND FLANGE AND PREPARE FOR PIPING TO TEMPORARY BOILER.
  - 5 DEMOLISH EXISTING FLASH TANK AND PIPING AS SHOWN.
  - 6 DEMOLISH MAKE-UP WATER DOWN TO SHUT-OFF VALVE FROM (X)HEAT EXCHANGER.
  - 7 DEMOLISH HPS AND HPC PIPING TO (X)D-1 BACK TO SHUT-OFF VALVES.
  - 8 DEMOLISH BOILER FEED WATER PIPING FROM (X)D-1 TO (X)BOILERS B-1 & B-2 AS SHOWN.
  - 9 PREPARE EXISTING BOILER FEED WATER PIPE FROM (X)D-2 FOR PIPING TO TEMPORARY BOILER.
  - 10 DEMOLISH (X)EX-5, ASSOCIATED PIPING TO NEAREST SHUT-OFF VALVE.
  - 11 DEMOLISH (X)P114 & (X)P115 HEATING HOT WATER PUMPS. DEMOLISH PIPING BACK TO NEAREST SHUT-OFF OR CHECK VALVE.
  - 12 DISCONNECT FUEL OIL PIPING FROM BOILER. PROTECT FOR RECONNECTION TO NEW BOILER.
  - 13 DISCONNECT NATURAL GAS PIPING FROM BOILER. PROTECT FOR RECONNECTION TO NEW BOILER.
  - 14 DEMOLISH (X)ET-5 AND SUPPORTS. DISCONNECT AND PROTECT (X)PIPING.
  - 15 DEMOLISH (X)6"-NG PIPING AS SHOWN INCLUDING HANGERS AND SUPPORTS. CONTRACTOR SHALL SCHEDULE NATURAL GAS PIPING SHUTDOWN WITH OWNER. CONTRACTOR SHALL INSTALL ISOLATION VALVE AS SHOWN.
  - 16 DEMOLISH 6"-NG PIPE CAP, PREPARE FOR NEW CONNECTION.



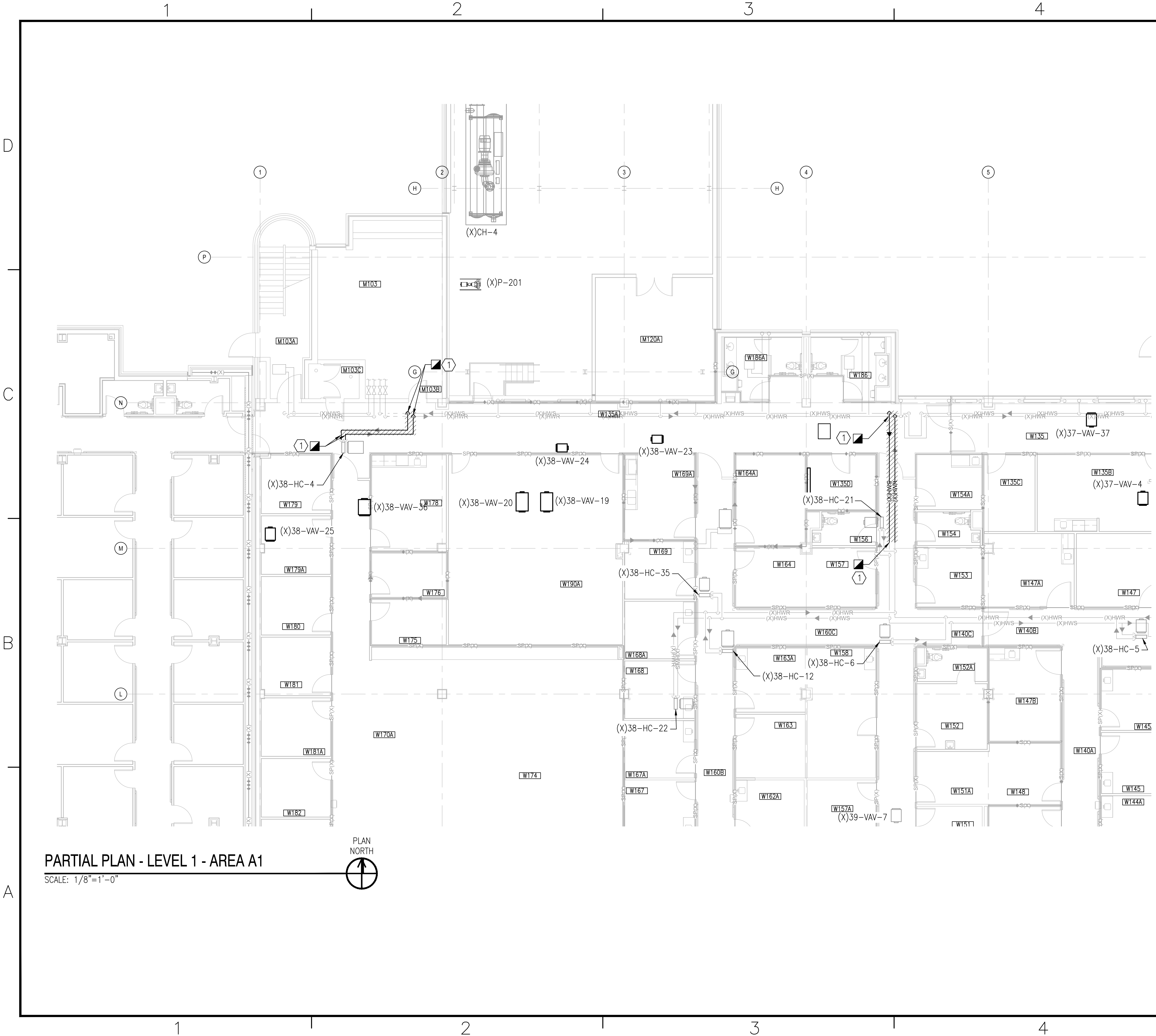
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ACTIVITY  
LT David Hartley via Email  
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DES RWC DRW RWC CHK TOG  
PM/DM DWB/KDB  
BRANCH MANAGER  
CHIEF ENG/ARCH EJA  
FIRE PROTECTION

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC  
NAVAL STATION, WAREHO, VIRGINIA  
MARINE CORE IPT  
U.S. MARINE CORPS  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
CAMP LEJEUNE, N.C.  
PARTIAL MECHANICAL PIPING DEMOLITION PLAN  
LEVEL 0 - AREA E1

NAVFAC DRAWING NO. 12790425  
SHEET 26 OF 196  
MPD100-E1  
DRAWFORM REVISION: 31 JANUARY 2017

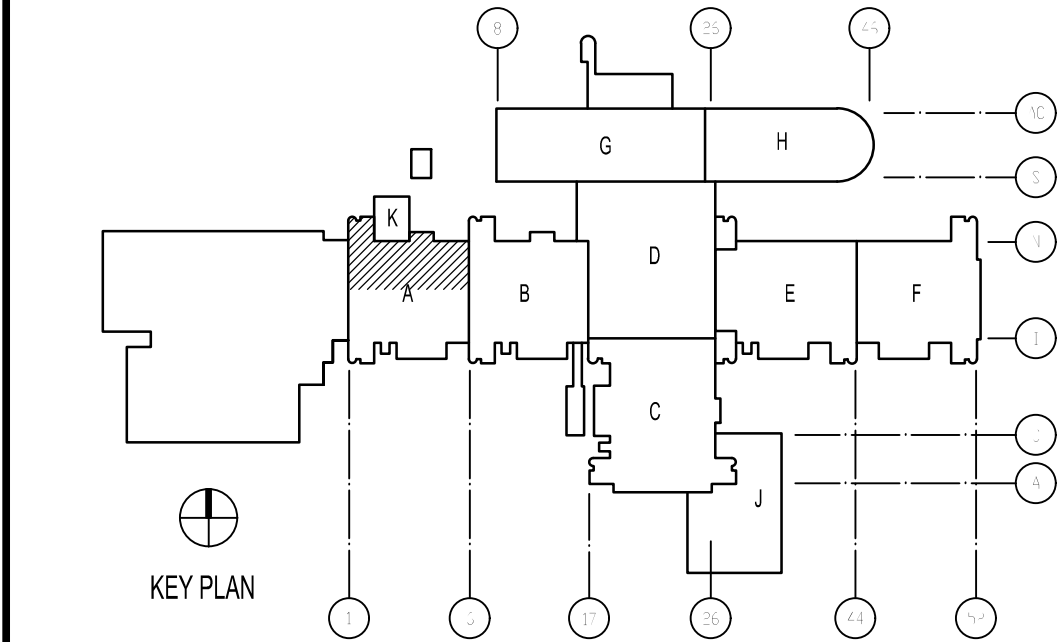


KEYED NOTES

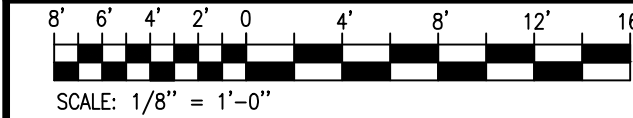
- ① REMOVE AND DISPOSE OF HEATING HOT WATER SUPPLY AND RETURN PIPING TO EXTENT SHOWN. CAP (X)TAKE-OFFS AT MAINS. PROTECT PIPING TOWARDS (X)HOT WATER COILS FOR RECONNECTION.

DATE		05/23/19	APPR
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DESCRIPTION			
05/23/19 SEAL			
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LT David Hartley via Email			
SATISFACTORY TO DATE: 05/21/2019			
DES	RWC	DRW	RWC
CHK	TOG		
BRANCH MANAGER			
CHIEF ENG/ARCH			
EJA			
FIRE PROTECTION			
NAVFAC ENGINEERING COMMAND			
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC			
NAVAL STATION, WAREHO, VIRGINIA			
U.S. MARINE CORPS			
CAMP LEJEUNE, N.C.			
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL			
PARTIAL MECHANICAL PIPING DEMOLITION PLAN			
LEVEL 1 - AREA A1			
SCALE: AS NOTED			
PROJECT NO.:			
CONSTR. CONTR. NO.:			
NAVFAC DRAWING NO. 12790426			
SHEET 27 OF 196			
MPD101-A1			
DRAWING REVISION: 31 JANUARY 2017			

KEY PLAN



GRAPHIC SCALE

















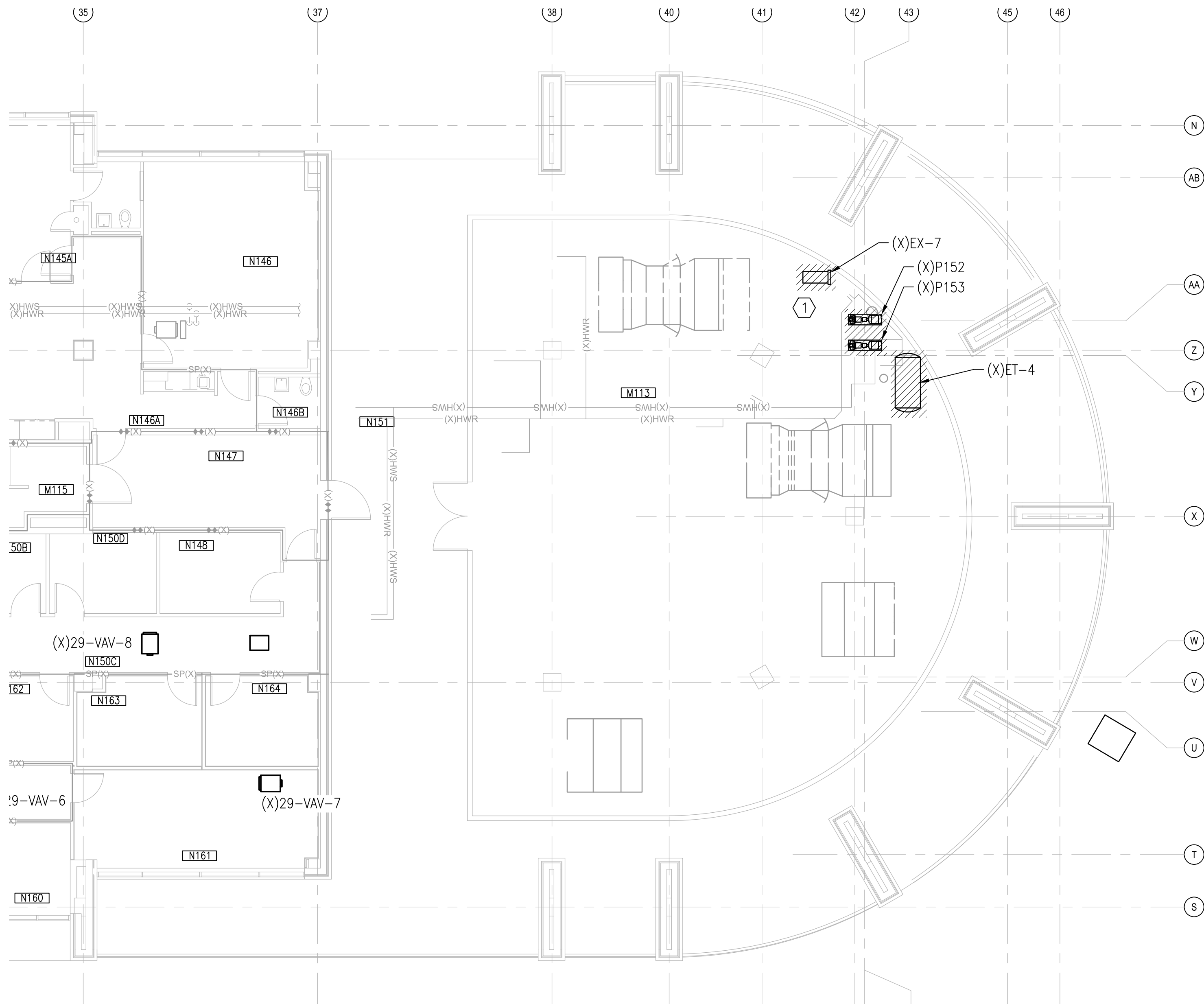






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PARTIAL PLAN - LEVEL 1 - AREA H2

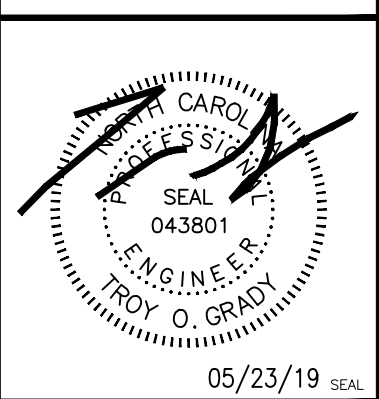
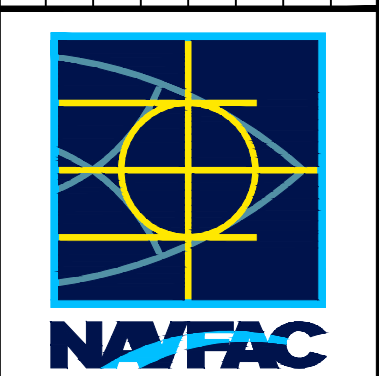
SCALE: 1/8"=1'-0"

PLAN NORTH

KEYED NOTES

① DEMOLISH (X)EX-7 HEAT EXCHANGER, (X)P152 / (X)P153 HEATING HOT WATER PUMPS, AIR SEPARATOR, EXPANSION TANK, ASSOCIATED PIPING, FITTINGS, AND/OR VALVES. PROTECT DISCONNECTED PIPING FOR RE-CONNECTION.

SYN	DESCRIPTION	DATE	APPR
0	ISSUED FOR CONSTRUCTION	05/23/19	



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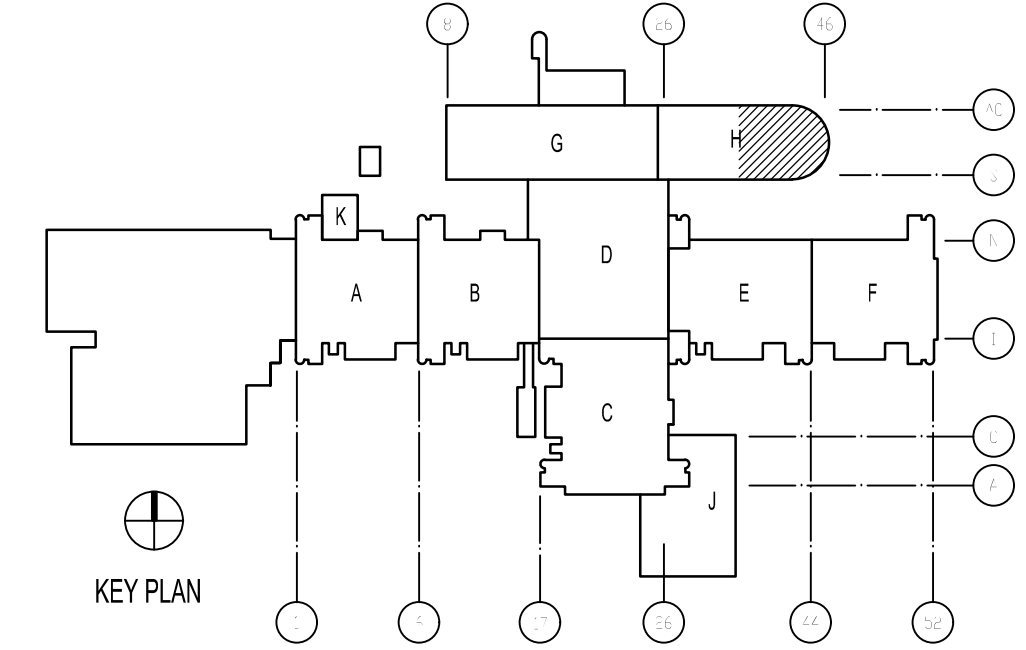
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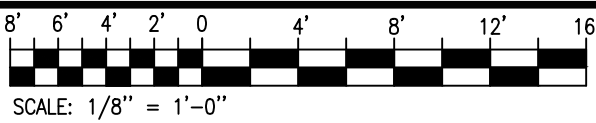
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FOR COMMANDER NAVFAC
ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019
DES RWC DRW RWC CHK TOG
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL STATION, WAREHOUSING, VIRGINIA  
MARINE CORPS  
U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL PIPING DEMOLITION PLAN  
LEVEL 1 - AREA H2

KEY PLAN



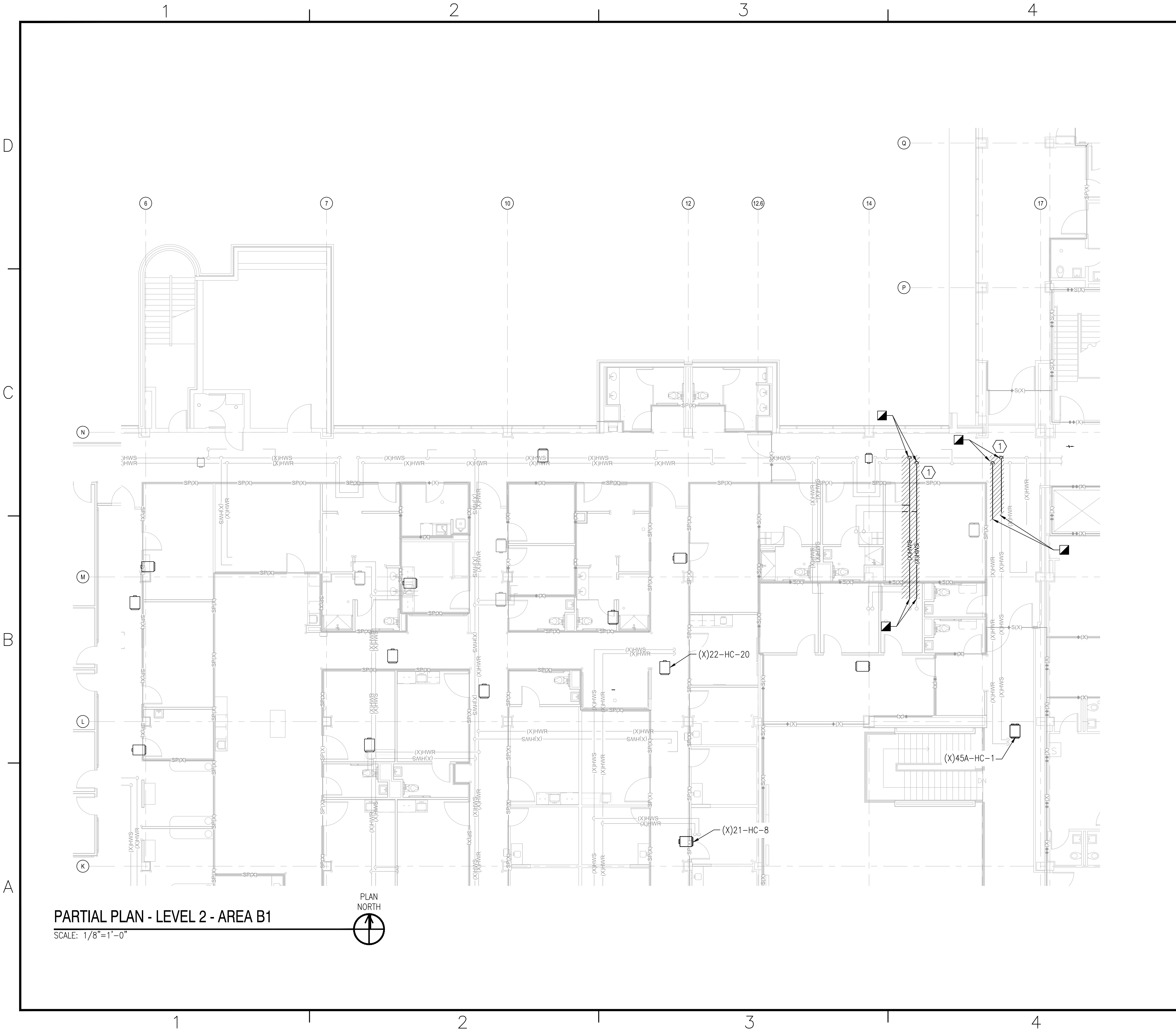
GRAPHIC SCALE



SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790433
SHEET	34 OF 196
MPD101-H2	
DRAWING REVISION: 31 JANUARY 2017	

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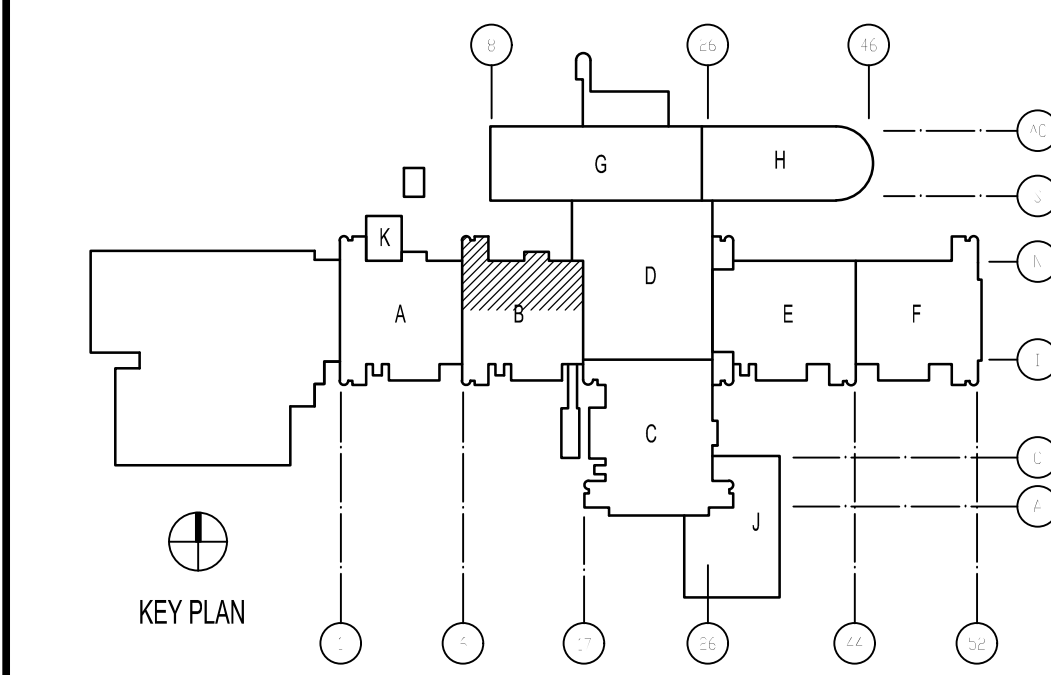
### KEYED NOTES

- ① REMOVE BRANCH HYDRONIC PIPING CONNECTION, ASSOCIATED FITTINGS, AND/OR VALVES. CAP AND PROTECT DISCONNECTED BRANCH PIPING ROUTE FOR FUTURE CONNECTION.

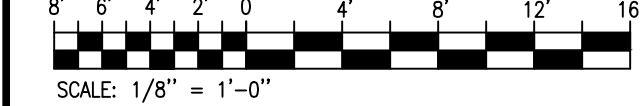
### GENERAL NOTES

1. PROTECT ALL PENETRATIONS THROUGH SMOKE AND FIRE RATED WALLS IN ACCORDANCE WITH NFPA 90A.

### KEY PLAN



### GRAPHIC SCALE



APPR	
05/23/19	DATE
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0	SYN
DESCRIPTION	
NAFAC	
CAROLINA SEAL 043801 TROY O. GRADY 05/23/19 SEAL	
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LT David Hartley via Email	
SATISFACTORY TO DATE: 05/21/2019	
DES	RWC
DRW	RWC
CHK	TOG
PM/DM	DWB/KDB
BRANCH MANAGER	
CHIEF ENG/ARCH	
FIRE PROTECTION	
EJA	
NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC	
NAVAL STATION, WAREHO, VIRGINIA	
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CAMP LEJEUNE, N.C.	
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL	
PARTIAL MECHANICAL PIPING DEMOLITION PLAN	
LEVEL 2 - AREA B1	
SCALE: AS NOTED	
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAFAC DRAWING NO.	
12790434	
SHEET	35
OF	196
MPD102-B1	
DRAWING REVISION: 31 JANUARY 2017	









PARTIAL PLAN - LEVEL 1 - AREA A2

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



KEYED NOTES

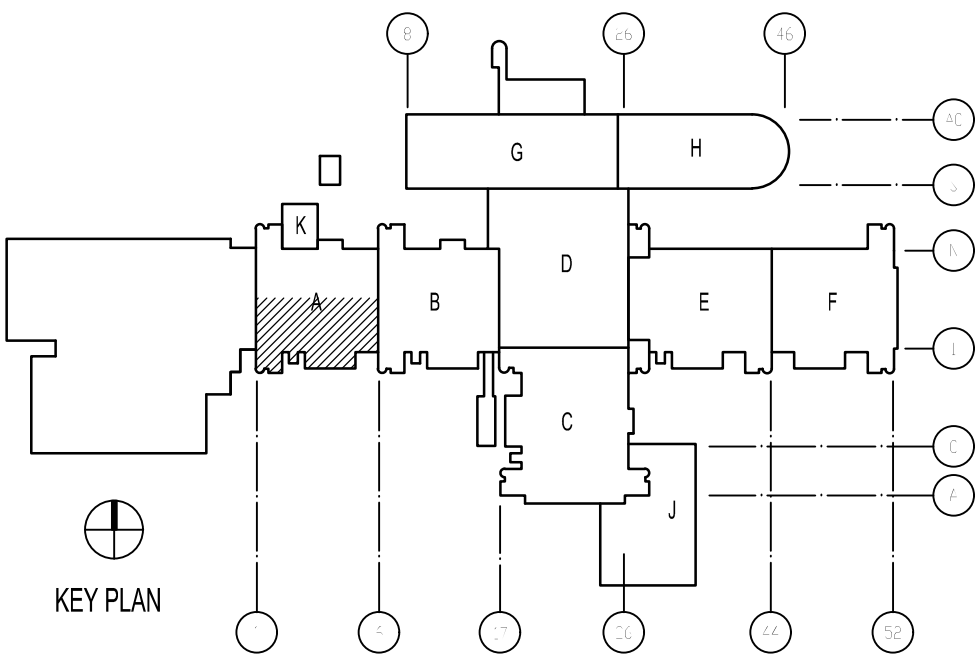
- 1 CONTRACTOR SHALL REMOVE CEILING TILE AND OR GRID AS NEEDED FOR INSTALLATION OF MECHANICAL SYSTEMS. SPRINKLER HEADS ARE TO REMAIN IN PLACE. CEILING SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.
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- 3 CONTRACTOR SHALL REMOVE GYPSUM CEILING. NEW MOISTURE RESISTANT ACOUSTICAL CEILING AND GRID SHALL BE INSTALLED. REFER TO MC401 FOR NEW REFLECTED CEILING PLAN.
- 4 CONTRACTOR SHALL REMOVE AND PROTECT CURTAIN TRACK. RE-INSTALL AFTER CEILING IS RESTORED.

\* NOTES ABOVE NOT INDICATED ON ALL PLANS.

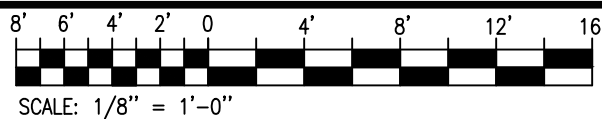
GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
2. CEILING DEMOLITION SHADING IS A SUGGESTED AREA AND ACTUAL DEMOLITION AREA MAY BE LESS OR GREATER THAN SPECIFIED AREA. CONTRACTOR SHALL DETERMINE FINAL DEMOLITION AREA NEEDED BASED UPON FIELD CONDITIONS AS WELL AS MATERIALS TO BE INSTALLED.
3. CONTRACTOR SHALL DOCUMENT CEILING CONDITIONS PRIOR TO BEGINNING WORK.
4. REFER TO ELECTRICAL PLANS FOR ADDITIONAL DEVICES IN CEILING.
5. CONTRACTOR SHALL RESTORE CEILING TO PRE-CONSTRUCTION OR BETTER CONDITION. POST-CONSTRUCTION CEILING APPEARANCE SHALL BE UNIFORM. CONTRACTOR SHALL REPLACE ALL TILES AND/OR GRID IN ROOM AS NEEDED TO ACHIEVE UNIFORM APPEARANCE.
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KEY PLAN



GRAPHIC SCALE



APPROVED	DATE	05/23/19
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SYN	DESCRIPTION	0

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A/E INFO

FOR COMMANDER NAVFAC

ACTIVITY

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

DES TOG DRW WTB CHK TOG

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION

NAVFAC ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC  
NAVAL STATION, WOROKE, VIRGINIA  
U.S. MARINE CORPS  
CAMP LEJUNE, N.C.  
**REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL**  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA A2

DEPARTMENT OF THE NAVY  
NAVFAC ENGINEERING COMMAND  
MARINE CORPS IPT

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.

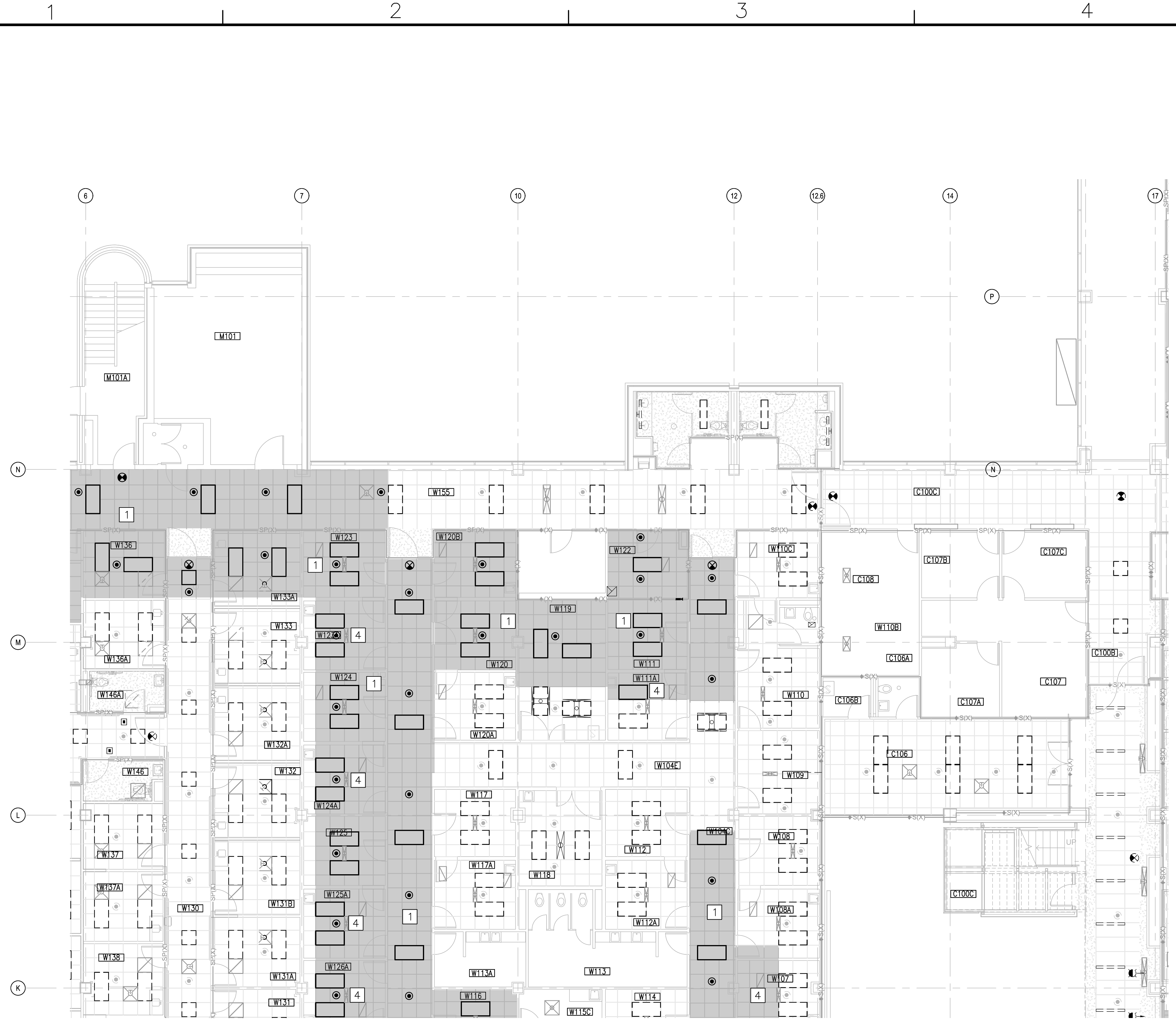
NAVFAC DRAWING NO.  
12790437

SHEET 38 OF 196

MC101-A2

DRAWING REVISION: 31 JANUARY 2017





PARTIAL PLAN - LEVEL 1 - AREA B1  
SCALE: 1/8"=1'-0"

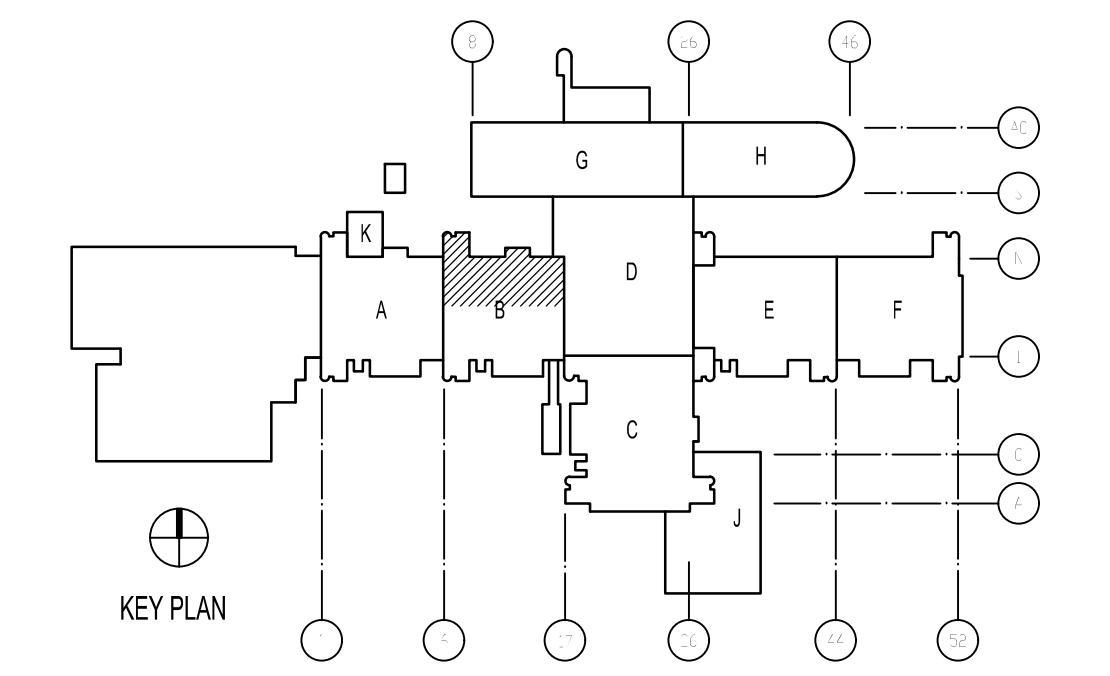
KEYED NOTES

1. CONTRACTOR SHALL REMOVE CEILING TILE AND OR GRID AS NEEDED FOR INSTALLATION OF MECHANICAL SYSTEMS. SPRINKLER HEADS ARE TO REMAIN IN PLACE. CEILING SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.
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  4. CONTRACTOR SHALL REMOVE AND PROTECT CURTAIN TRACK. RE-INSTALL AFTER CEILING IS RESTORED.
- \* NOTES ABOVE NOT INDICATED ON ALL PLANS.

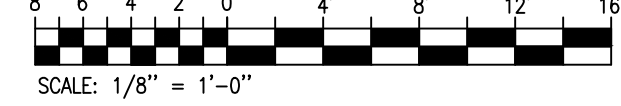
GENERAL NOTES

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KEY PLAN



GRAPHIC SCALE



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NAFAC

TROY O. GRADY  
05/23/19 SEAL

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ACTIVITY

LT David Hartley via Email  
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DES TOG DRW WTB CHK TOG

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC  
NAVAL STATION, WAREHO, VIRGINIA  
MARINE CORE IPT  
U.S. MARINE CORPS  
CAMP LEJUNE, N.C.  
**REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL**  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA B1

NAVFAC DRAWING NO. 12790438

SHEET 39 OF 196

MC101-B1

DRAWING REVISION: 31 JANUARY 2017





KEYED NOTES

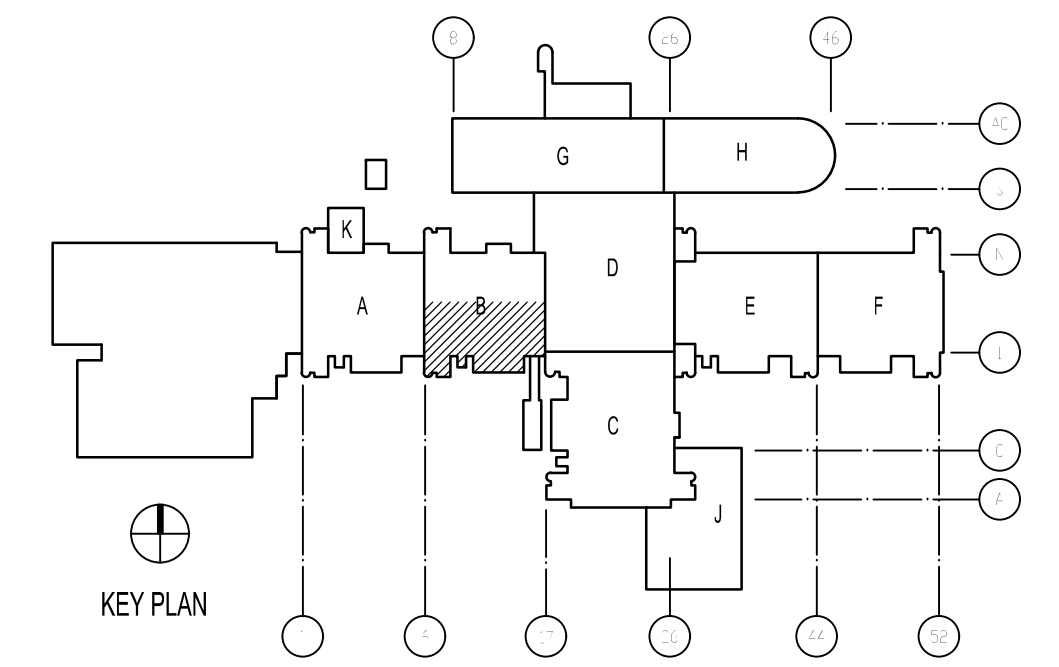
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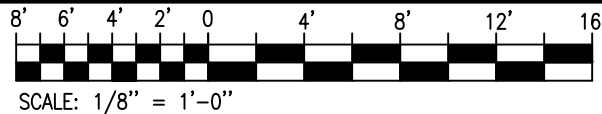
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KEY PLAN



GRAPHIC SCALE



APPR	DATE	05/23/19
SYN	DESCRIPTION	ISSUED FOR CONSTRUCTION
0	SYN	0

05/23/19 SEAL

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FOR COMMANDER NAFAC

ACTIVITY

Lt David Hartley via Email

SATISFACTORY TO DATE: 05/21/2019

DES TOG DRW WTB CHK TOG

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION

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

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

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA B2

SCALE: AS NOTED

PROJECT NO.: 12790439

CONSTR. CONTR. NO.

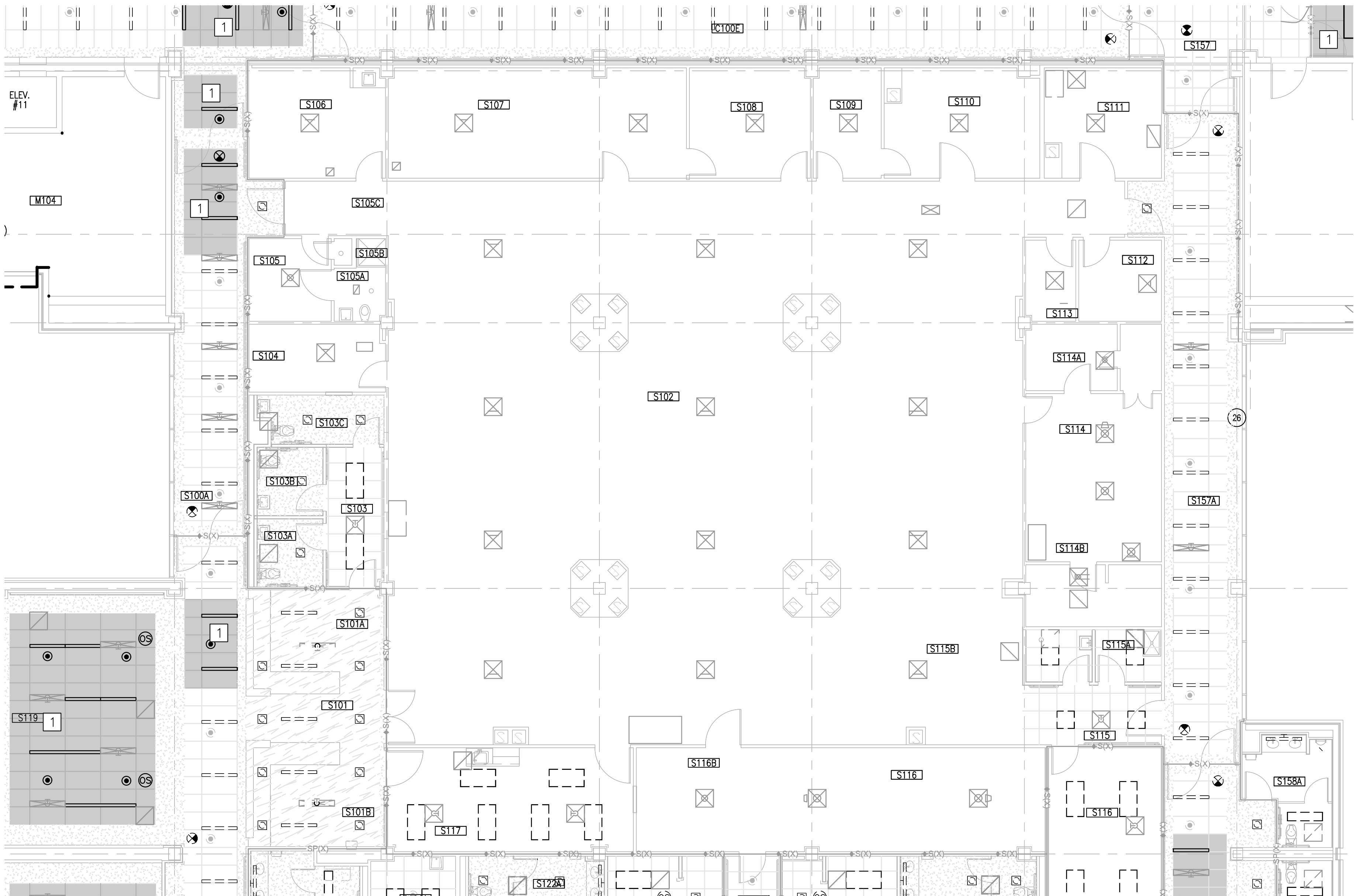
NAVFAC DRAWING NO.

SHEET 40 OF 196

MC101-B2

DRAWING REVISION: 31 JANUARY 2017





PARTIAL PLAN - LEVEL 1 - AREA C1

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



## KEYED NOTES

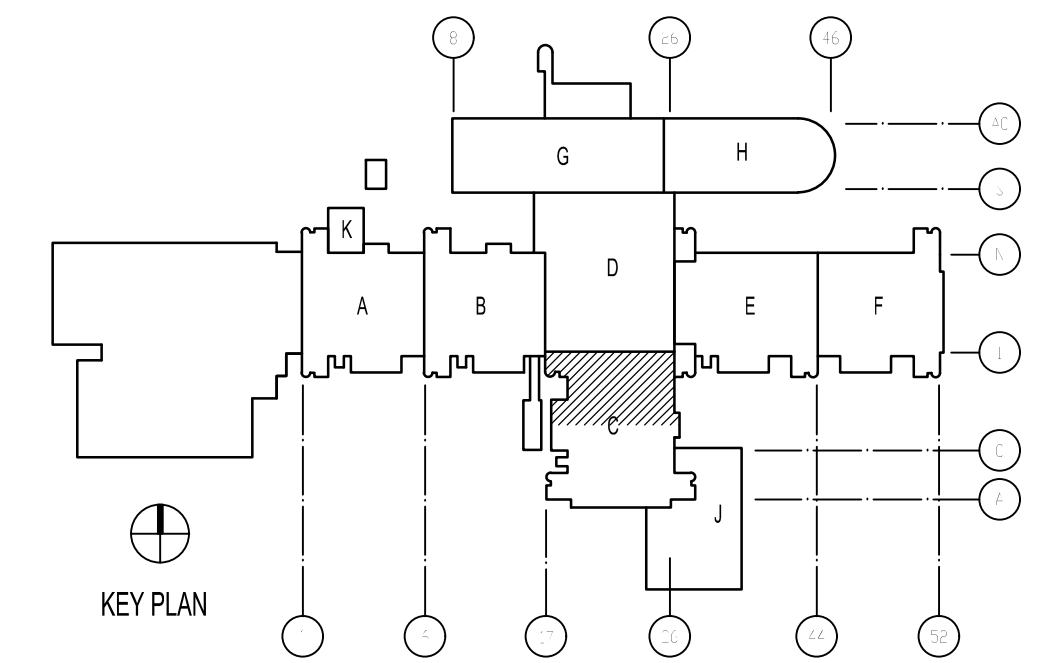
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\* NOTES ABOVE NOT INDICATED ON ALL PLANS.

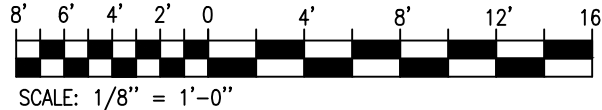
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## KEY PLAN



## GRAPHIC SCALE



APPROVED	DATE	05/23/19
FOR COMMANDER NAVFAC	DESCRIPTION	ISSUED FOR CONSTRUCTION
ACTIVITY	SYN	0
LT David Hartley via Email	SEAL	043801
SATISFACTORY TO	DATE	05/21/2019
DES TOG	DRW	WTB
PM/DM	DWB/KDB	
BRANCH MANAGER		
CHIEF ENG/ARCH	EJA	
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND	REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL	
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC	CAMP LEJUNE, N.C.	
NAVAL STATION, WFOOLC, VIRGINIA	PARTIAL MECHANICAL CEILING PLAN	
U.S. MARINE CORPS	LEVEL 1 - AREA C1	
SCALE: AS NOTED	NAVFAC DRAWING NO.	12790440
PROJECT NO.	SHEET	41 OF 196
CONSTR. CONTR. NO.	MC101-C1	
DRAWING REVISION: 31 JANUARY 2017		



D

C

B

A



PARTIAL PLAN - LEVEL 1 - AREA C2  
SCALE: 1/8"=1'-0"

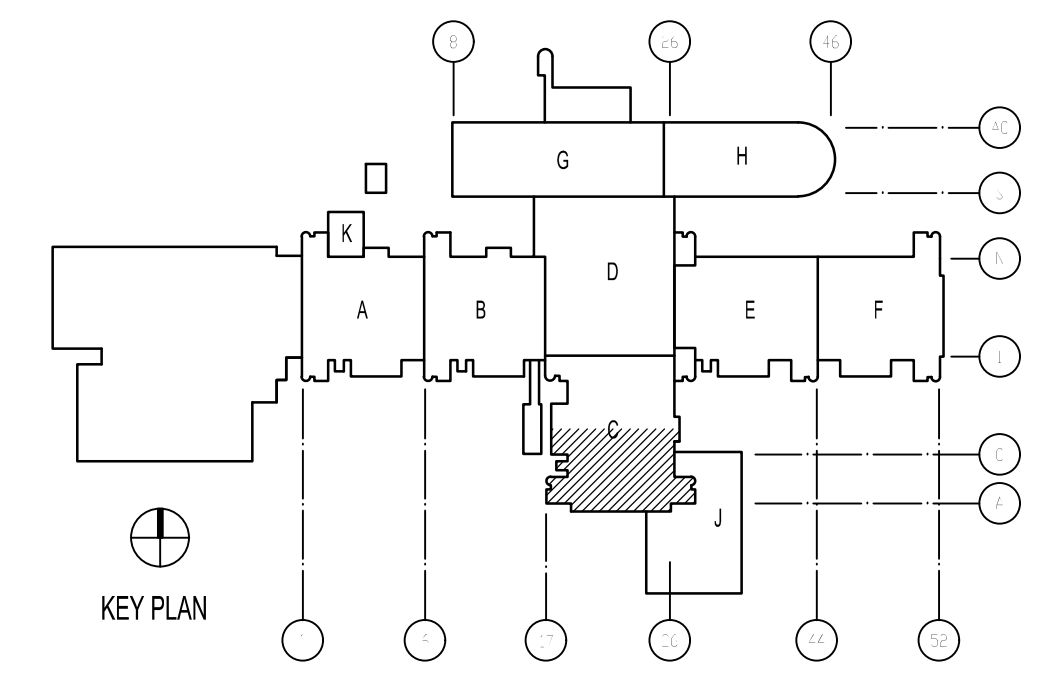
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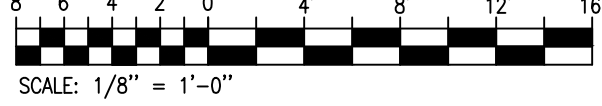
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KEY PLAN



GRAPHIC SCALE



DATE: 05.23.19		APPR.
ISSUED FOR CONSTRUCTION		DATE
0	SYN	DESCRIPTION

**CBHF**  
Engineers, PLLC  
2246 Yaupon Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.5266  
www.cbhfenr.com  
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NCE P-0516  
A/E INFO

APPROVED  
FOR COMMANDER NAVFAC  
ACTIVITY  
LT David Hartley via Email  
SATISFACTORY TO DATE: 05/21/2019  
DES TOG DRW WTB CHK TOG  
PM/DM DWB/KDB  
BRANCH MANAGER  
CHIEF ENG/ARCH EJA  
FIRE PROTECTION

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC  
MARINE CORPS  
U.S. MARINE CORPS  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
CAMP LEJEUNE, N.C.  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA C2

NAVFAC DRAWING NO. 12790441  
SHEET 42 OF 196  
MC101-C2  
DRAWING REVISION: 31 JANUARY 2017





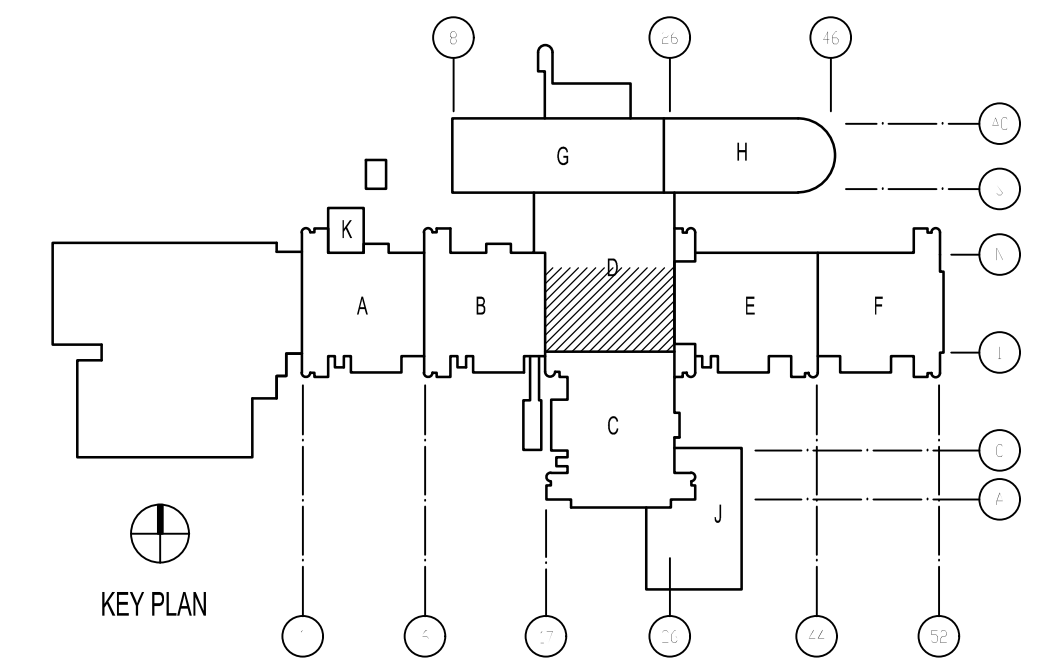
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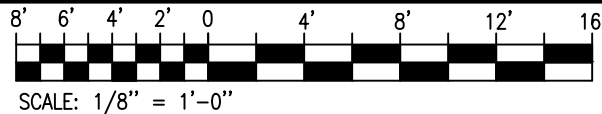
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KEY PLAN



GRAPHIC SCALE



DATE: 05.23.19		APPR
ISSUED FOR CONSTRUCTION		DESCRIPTION
0	SYN	

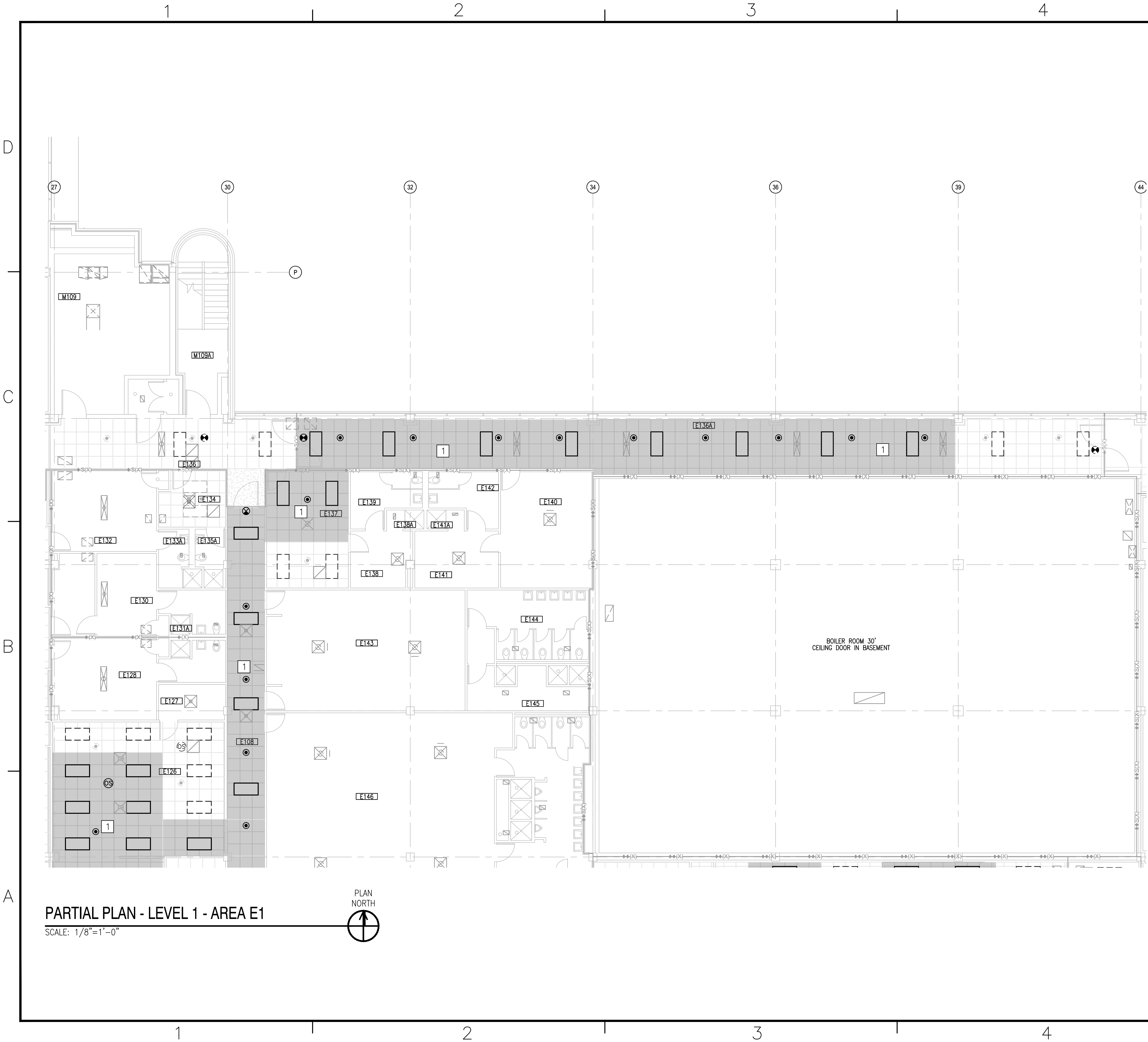
**CBHF**  
Engineers, PLLC  
2246 Yaupon Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.5266  
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NCE P-0516  
A/E INFO

FOR COMMANDER NAFAC
ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE: 05/21/2019
DES TOG DRW WTB CHK TOG
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC  
MARINE CORE IPT  
U.S. MARINE CORPS  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
CAMP LEJEUNE, N.C.  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA D2

NAVFAC DRAWING NO. 12790442  
SHEET 43 OF 196  
MC101-D2  
DRAWING REVISION: 31 JANUARY 2017





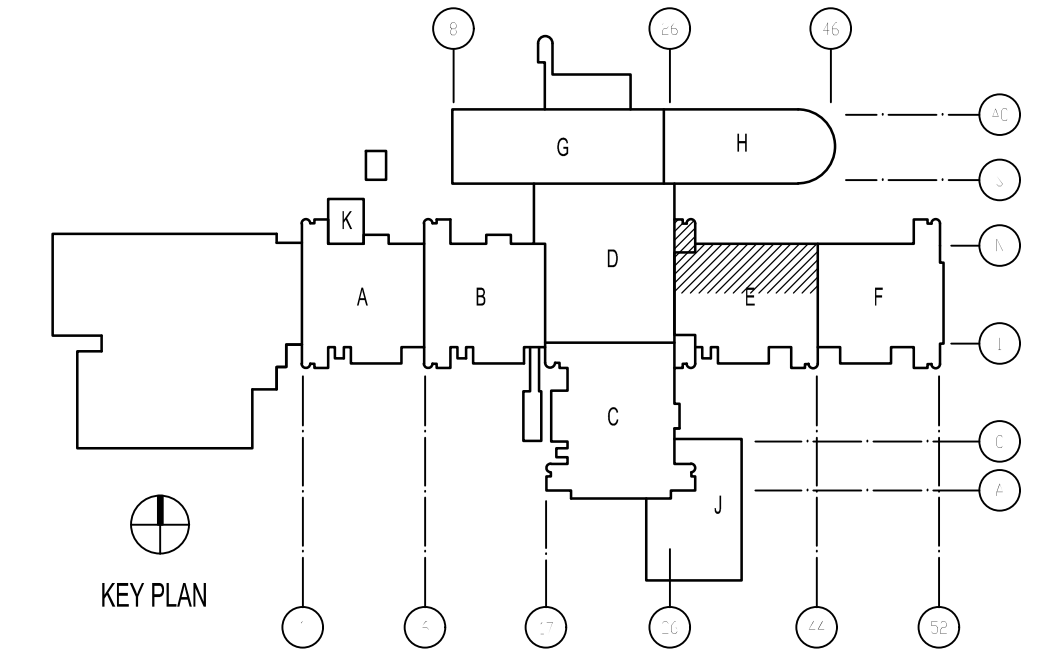
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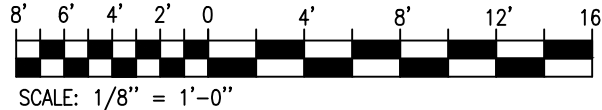
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KEY PLAN



GRAPHIC SCALE



DATE	05/23/19	APPR
SYN	0	ISSUED FOR CONSTRUCTION
DESCRIPTION		

**CBHF**  
Engineers, PLLC  
2246 Yaupon Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.5266  
www.cbhngineers.com  
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NCE P-0506  
A/E INFO

FOR COMMANDER NAFAC
ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019
DES TOG DRW WTB CHK TOG
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC  
NAVAL STATION, WOLFOL, VIRGINIA  
MARINE CORPS  
U.S. MARINE CORPS  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
CAMP LEJUNE, N.C.  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA E1

SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790443
SHEET	44 OF 196
MC101-E1	
DRAWING REVISION: 31 JANUARY 2017	



## KEYED NOTES

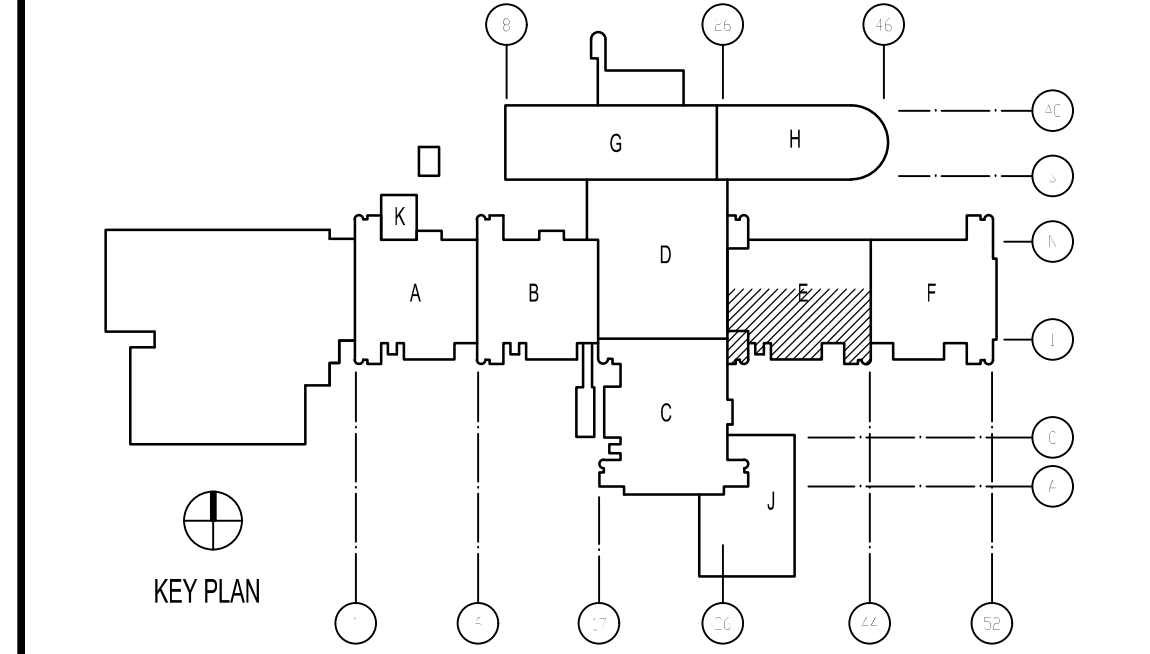
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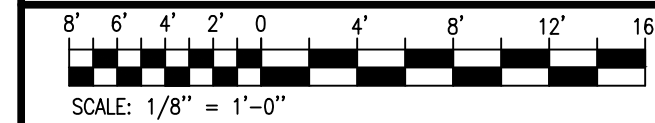
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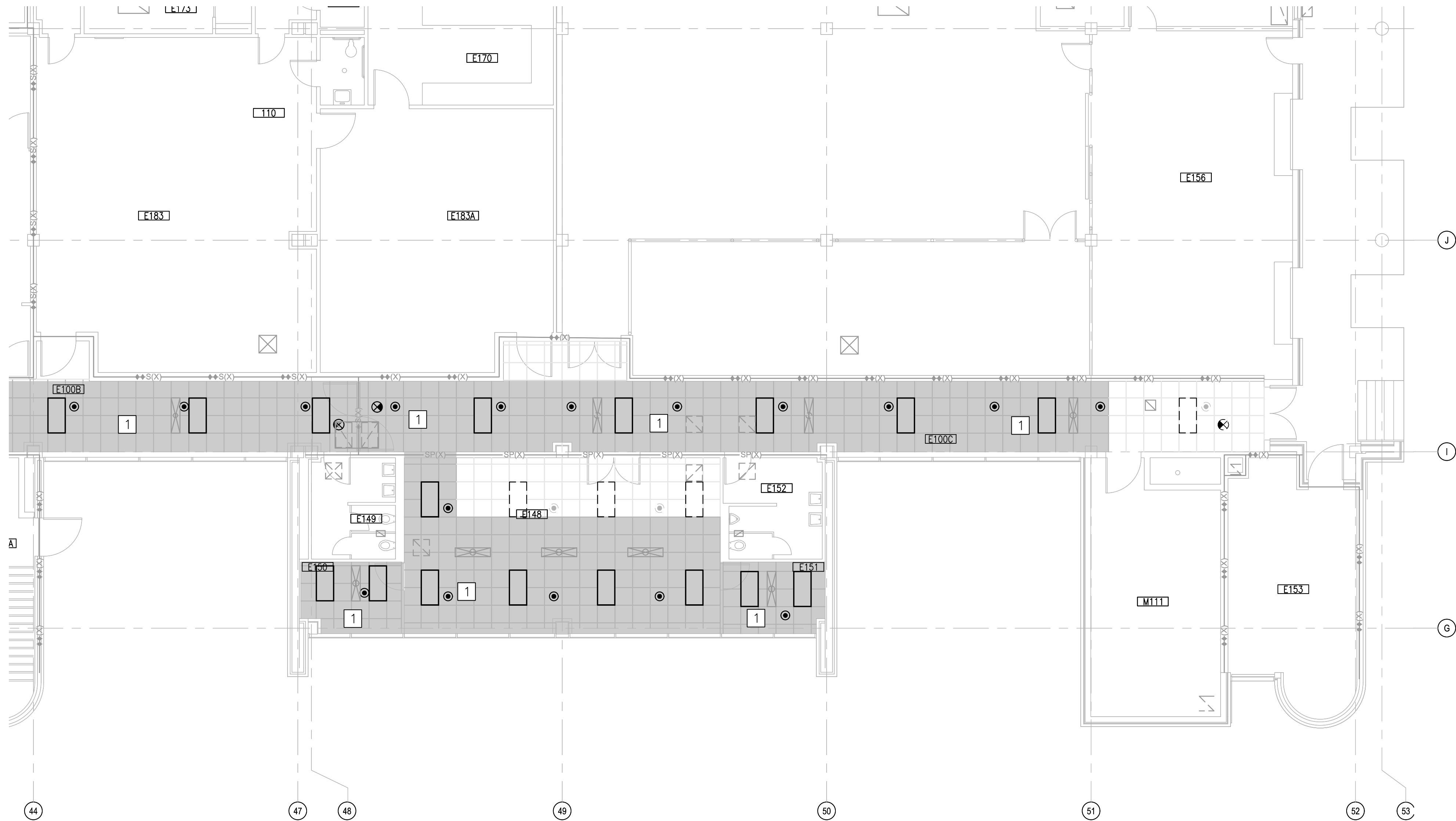


## GRAPHIC SCALE



DATE	05/23/19
SYN	0
DESCRIPTION	ISSUED FOR CONSTRUCTION
FOR COMMANDER NAVFAC	
ACTIVITY	
LT David Hartley via Email	
SATISFACTORY TO DATE : 05/21/2019	
DES TOG DRW WTB CHK TOG	
PM/DM DWB/KDB	
BRANCH MANAGER	
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FIRE PROTECTION	
NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC	
NAVAL STATION, WAREHO, VIRGINIA	
U.S. MARINE CORPS	
CAMP LEJUNE, N.C.	
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL	
PARTIAL MECHANICAL CEILING PLAN	
LEVEL 1 - AREA E2	
SCALE: AS NOTED	
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
12790444	
SHEET 45 OF 196	
MC101-E2	
DRAWING REVISION: 31 JANUARY 2017	





PARTIAL PLAN - LEVEL 1 - AREA F2

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



### KEYED NOTES

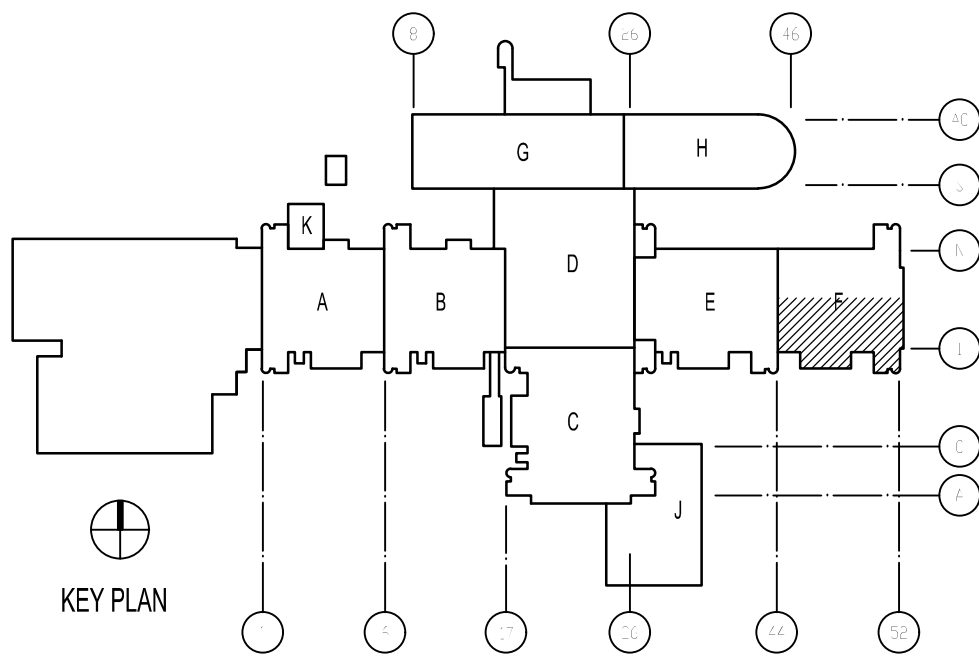
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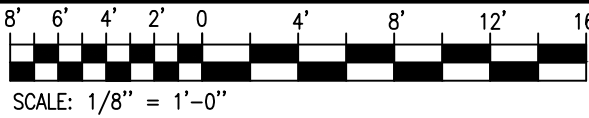
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APPR	DATE	05/23/19
SYN	DESCRIPTION	ISSUED FOR CONSTRUCTION
0	SYN	0

**CBHF**  
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NCE P-0516  
A/E INFO

APPROVED

FOR COMMANDER NAFAC

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES TOG DRW WTB CHK TOG

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL STATION, WAREHOUSING, VIRGINIA  
MARINE CORPS  
U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA F2

SCALE: AS NOTED

PROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12790445

SHEET 46 OF 196

MC101-F2

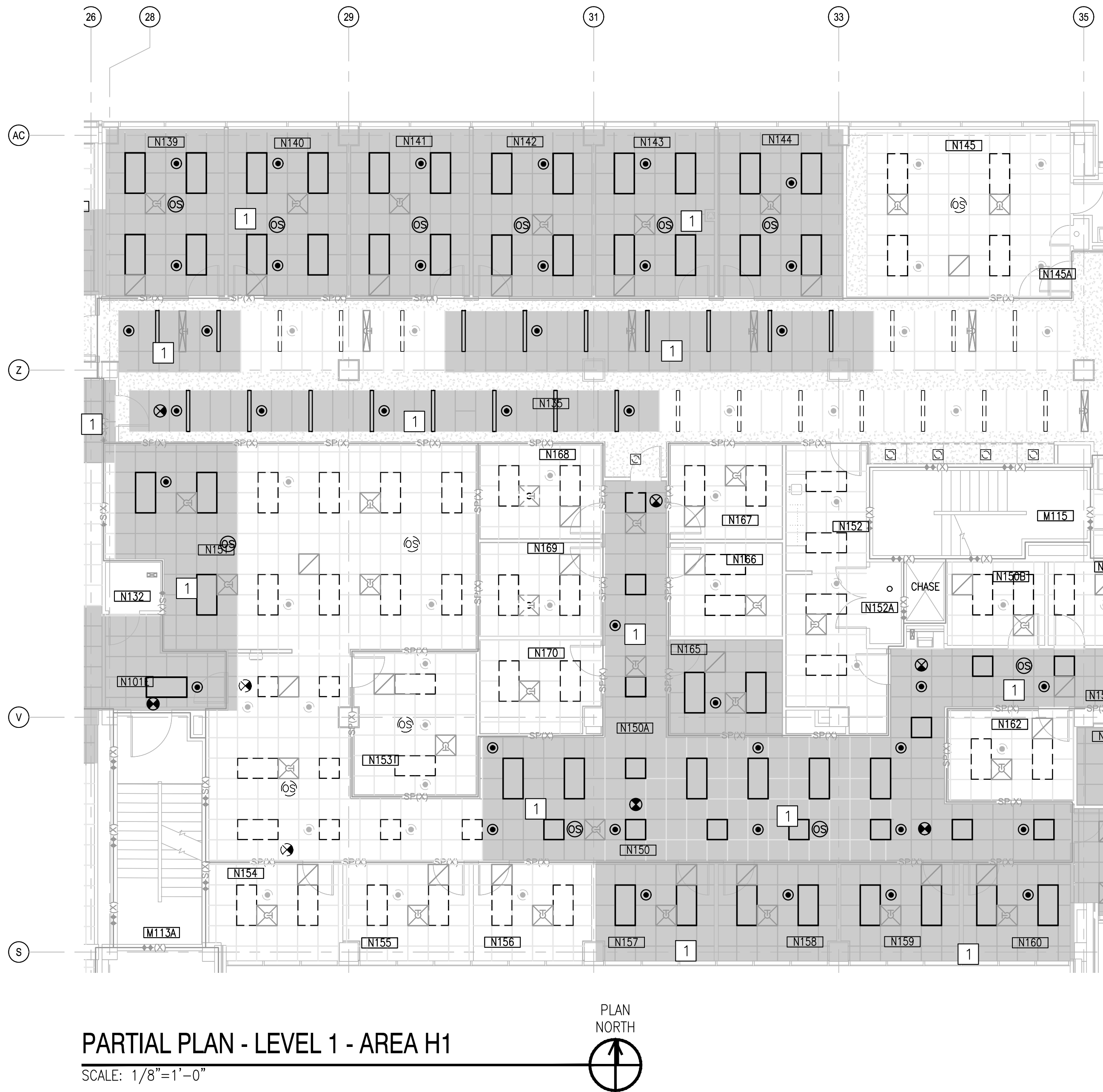
DRAWING REVISION: 31 JANUARY 2017







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B  
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2

3

4

## KEYED NOTES

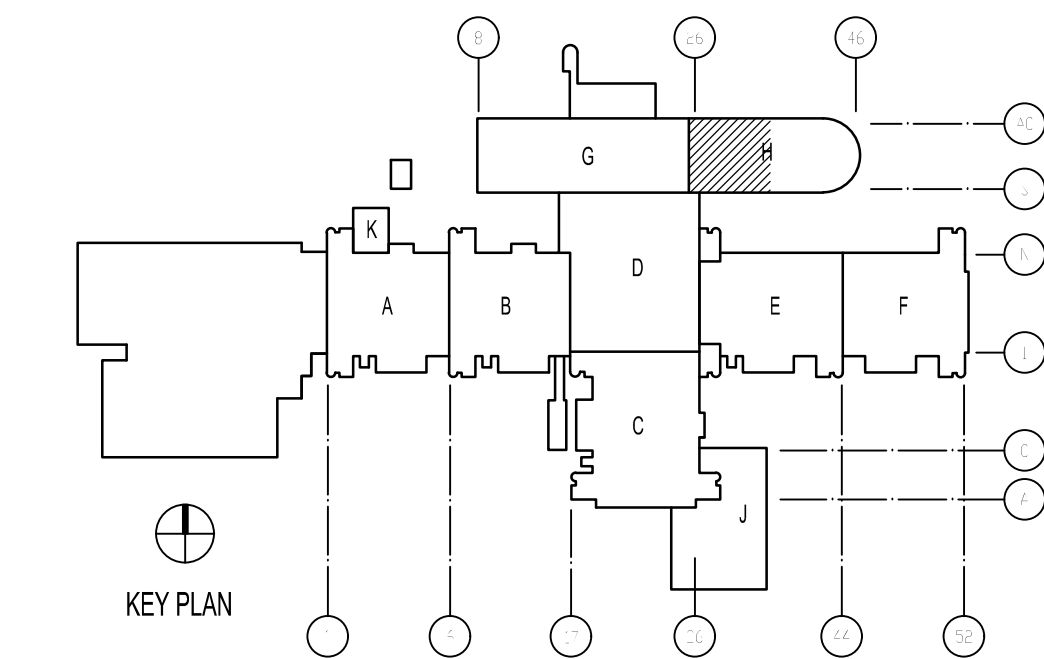
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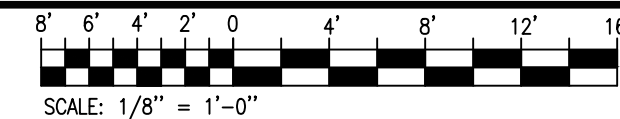
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## KEY PLAN



## GRAPHIC SCALE



APPR	DATE	05/23/19
SYN	DESCRIPTION	ISSUED FOR CONSTRUCTION
0	SYN	0

**CBHF**  
Engineers, PLLC  
2246 Yaupon Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.5266  
www.cbhfenr.com  
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APPROVED  
FOR COMMANDER NAVFAC  
ACTIVITY  
LT David Hartley via Email  
SATISFACTORY TO DATE: 05/21/2019  
DES TOG DRW WTB CHK TOG  
PM/DM DWB/KDB  
BRANCH MANAGER  
CHIEF ENG/ARCH EJA  
FIRE PROTECTION

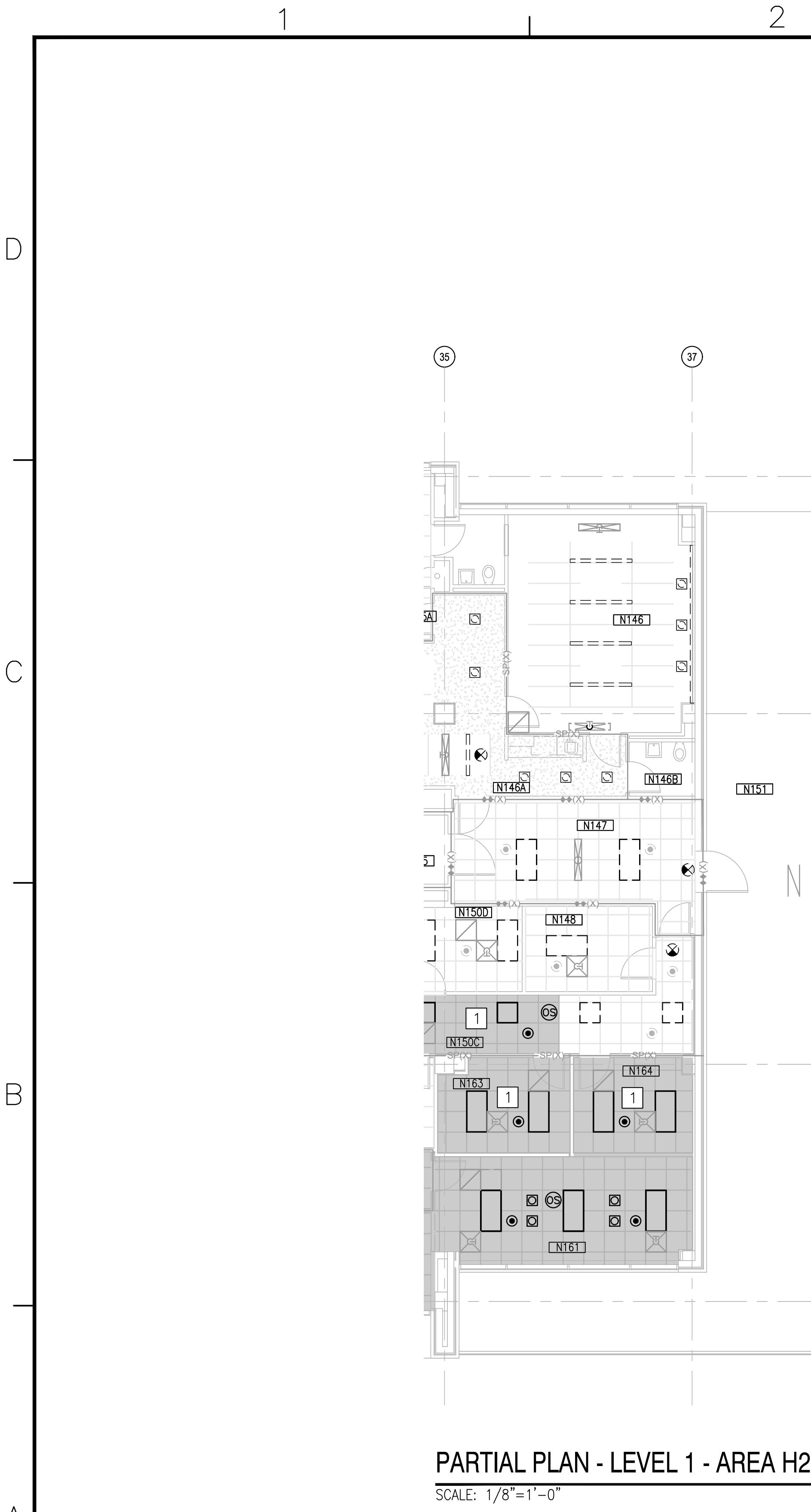
DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC  
MARINE CORPS  
U.S. MARINE CORPS  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
CAMP LEJUNE, N.C.  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA H1

SCALE: AS NOTED  
EPROJECT NO.:  
CONSTR. CONTR. NO.:  
NAVFAC DRAWING NO.: 12790448  
SHEET 49 OF 196  
MC101-H1  
DRAWING REVISION: 31 JANUARY 2017

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KEYED NOTES

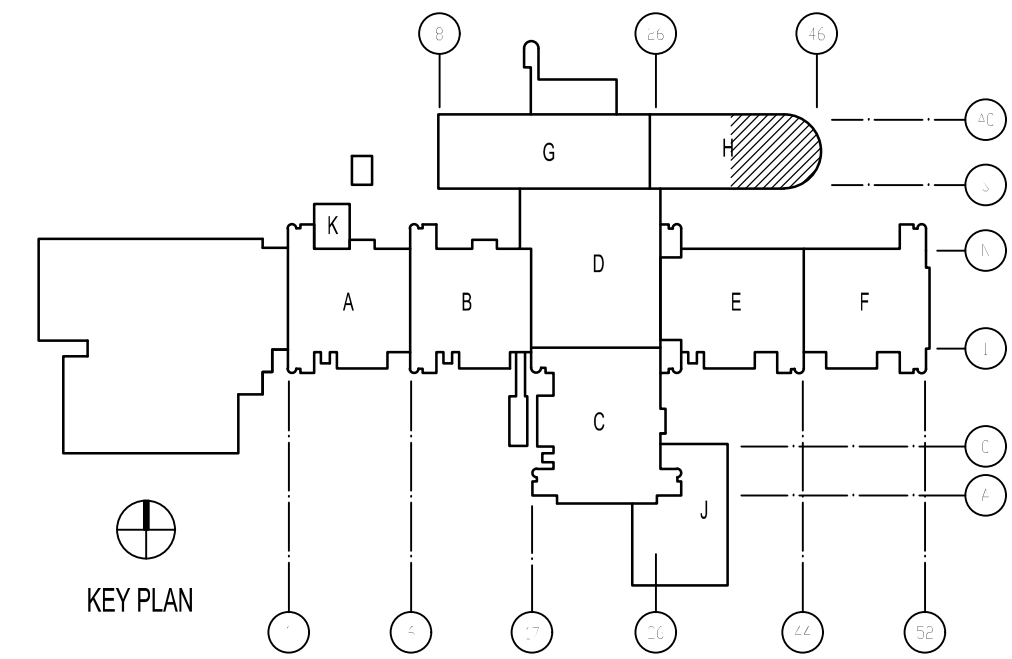
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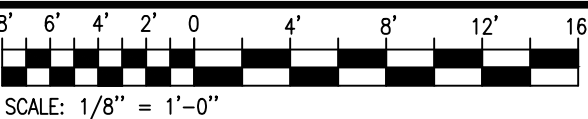
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KEY PLAN



GRAPHIC SCALE



APPR	DATE	05/23/19
SYN	DESCRIPTION	ISSUED FOR CONSTRUCTION
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APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE: 05/21/2019

DES TOG DRW WTB CHK TOG

PM/DM DWB/KDB

BRANCH MANAGER

CHIEF ENG/ARCH EJA

FIRE PROTECTION

NAVFACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC  
NAVAL STATION, WAREHO, VIRGINIA  
U.S. MARINE CORPS  
CAMP LEJUNE, N.C.

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA H2

SCALE: AS NOTED

PROJECT NO.:

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12790449

SHEET 50 OF 196

MC101-H2

DRAWING REVISION: 31 JANUARY 2017



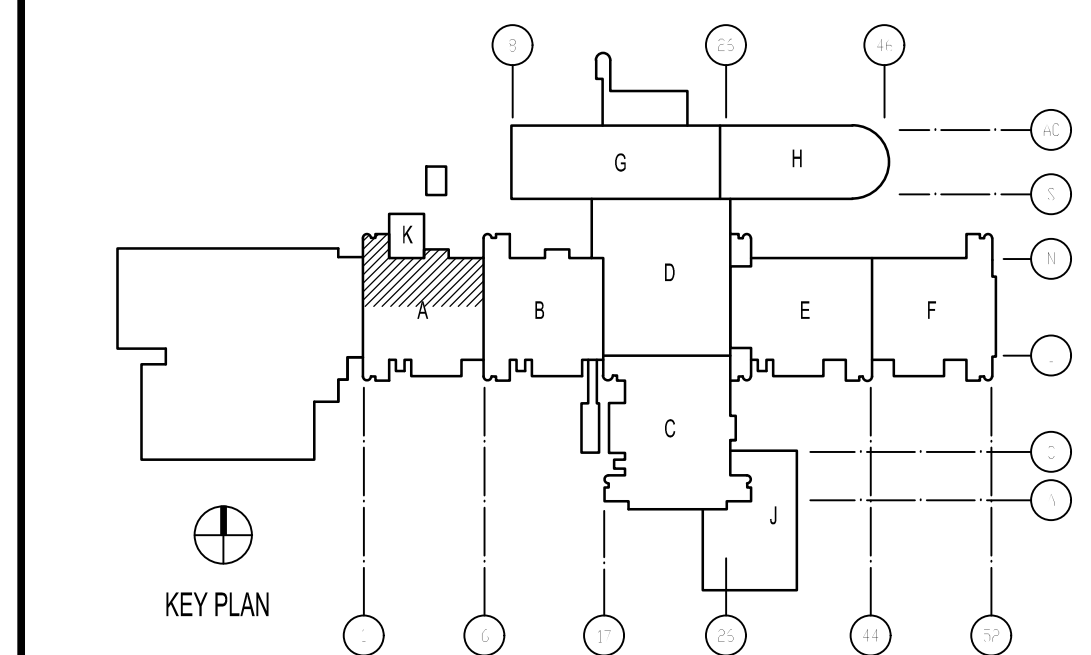
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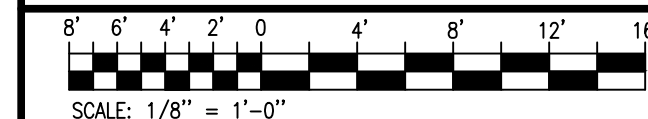
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PARTIAL PLAN - LEVEL 2 - AREA B2  
SCALE: 1/8"=1'-0"



## KEYED NOTES

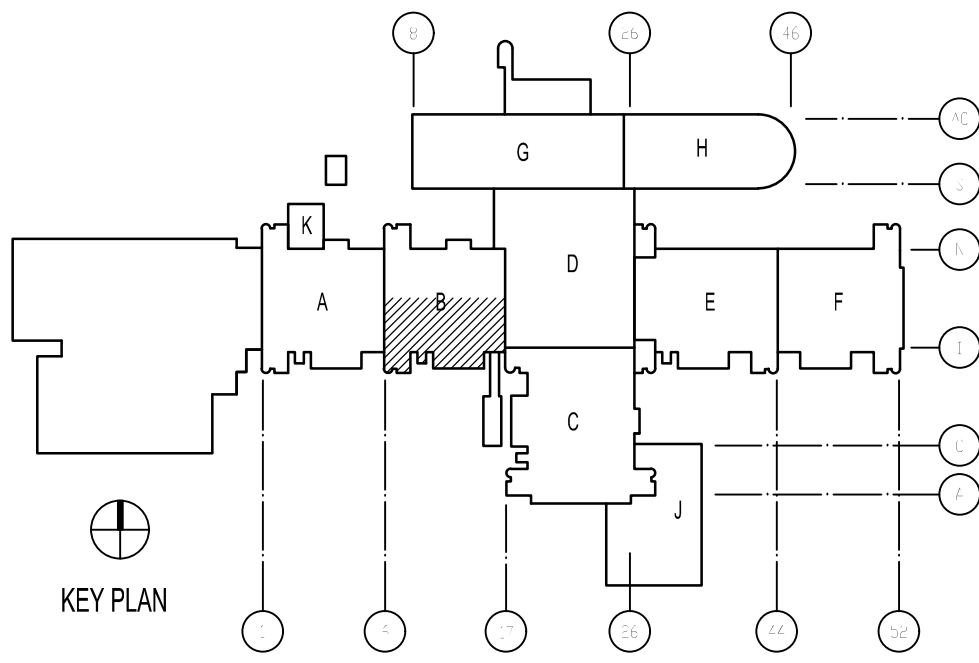
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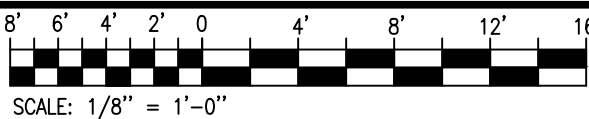
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APPROVED	DATE	05/23/19	APP
ISSUED FOR CONSTRUCTION	DATE	05/23/19	APP
SYN	DESCRIPTION	0	SYN

05/23/19 SEAL

**CBHF**  
Engineers, PLLC

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APPROVED

FOR COMMANDER NAFAC

ACTIVITY

LT David Hartley via Email

SATISFACTORY TO DATE : 05/21/2019

DES WTB DRW WTB CHK TOG

PM/DM DWB/KDB

BRANCH MANAGER

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REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL MECHANICAL CEILING PLAN

LEVEL 2 - AREA B2

NAVFAC DRAWING NO. 12790453

SHEET 54 OF 196

MC102-B2

DRAWING REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 3 - AREA G1  
SCALE: 1/8"=1'-0"

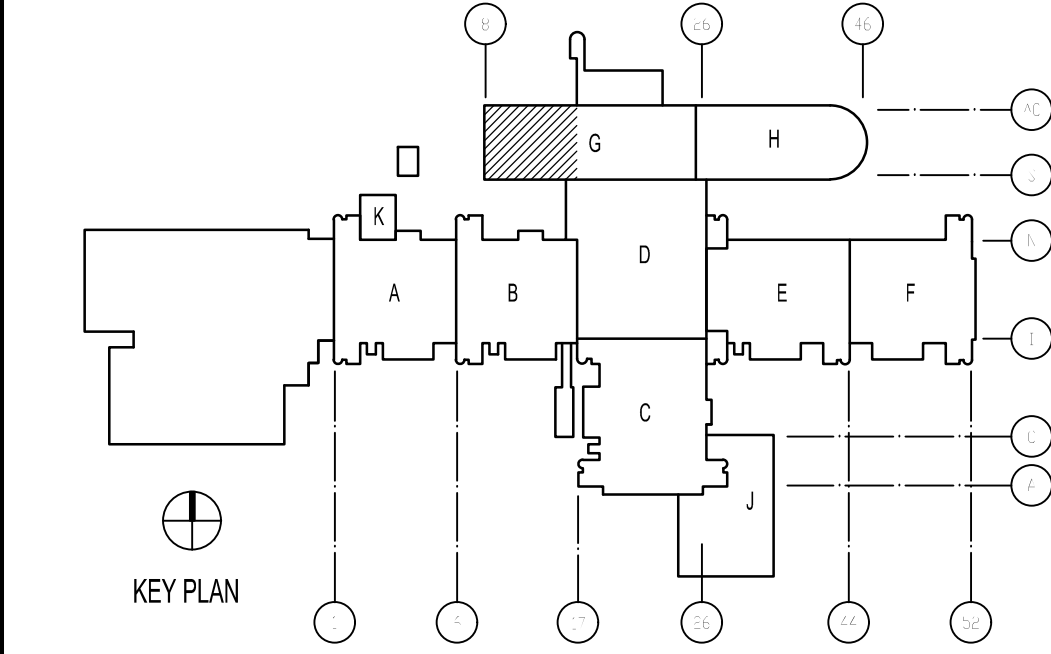
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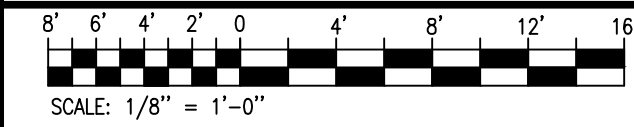
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6. WORK SHALL BE PHASED SUCH THAT ONLY SMALL PORTIONS (1400 SF MAX) OF THE HOSPITAL ARE AFFECTED AT A TIME. CONTRACTOR SHALL ISOLATE CONSTRUCTION AREAS USING APPROPRIATE HARD OR PLASTIC BARRIERS. BARRIERS MUST CONTINUE ABOVE CEILINGS TO DECK ABOVE. ALL PENETRATIONS THRU BARRIER MUST BE SEALED. REMOVE AIR FROM THE CONSTRUCTION AREA USING NEGATIVE PRESSURE MEASURES THAT VENT THRU HEPA FILTERS BEFORE BEING INTRODUCED INTO THE ADJACENT AREAS. SPRINKLER HEADS SHALL HAVE HEAT COLLECTORS INSTALLED ON THEM WHILE CEILINGS ARE REMOVED.

### KEY PLAN



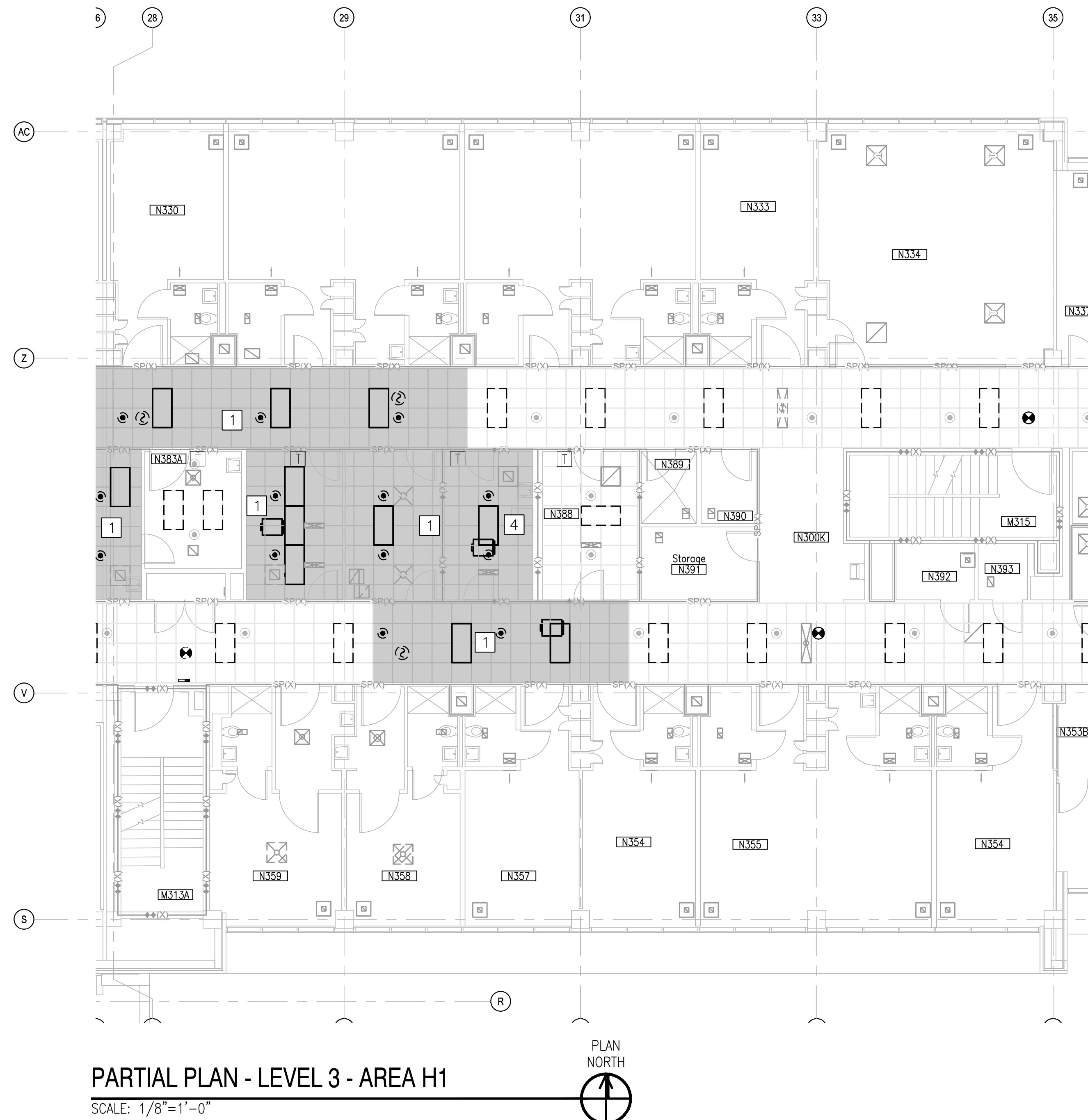
### GRAPHIC SCALE



APPR	DATE	05/23/19
SYN	ISSUED FOR CONSTRUCTION	0
05/23/19		
NAFAC		
TROY O. GRAY ENGINEER SEAL 043801 05/23/19		
CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfenr.com © Copyright 2018 CBHF Engineers, PLLC NCE P-5516 A/E INFO		
APPROVED		
FOR COMMANDER NAFAC		
ACTIVITY		
LT David Hartley via Email SATISFACTORY TO DATE: 05/21/2019		
DES: WTB   DRW: WTB   CHK: TOG		
PM/DM: DWB/KDB		
BRANCH MANAGER		
CHIEF ENG/ARCH: EJA		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC NAVAL STATION, WAREHO, VIRGINIA U.S. MARINE CORPS CAMP LEJEUNE, N.C. REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL PARTIAL MECHANICAL CEILING PLAN LEVEL 3 - AREA G1		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS U.S. MARINE CORPS CAMP LEJEUNE, N.C.		
SCALE: AS NOTED		
EPROJECT NO.:		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO. 12790454		
SHEET 55 OF 196		
MC103-G1		
DRAWING REVISION: 31 JANUARY 2017		







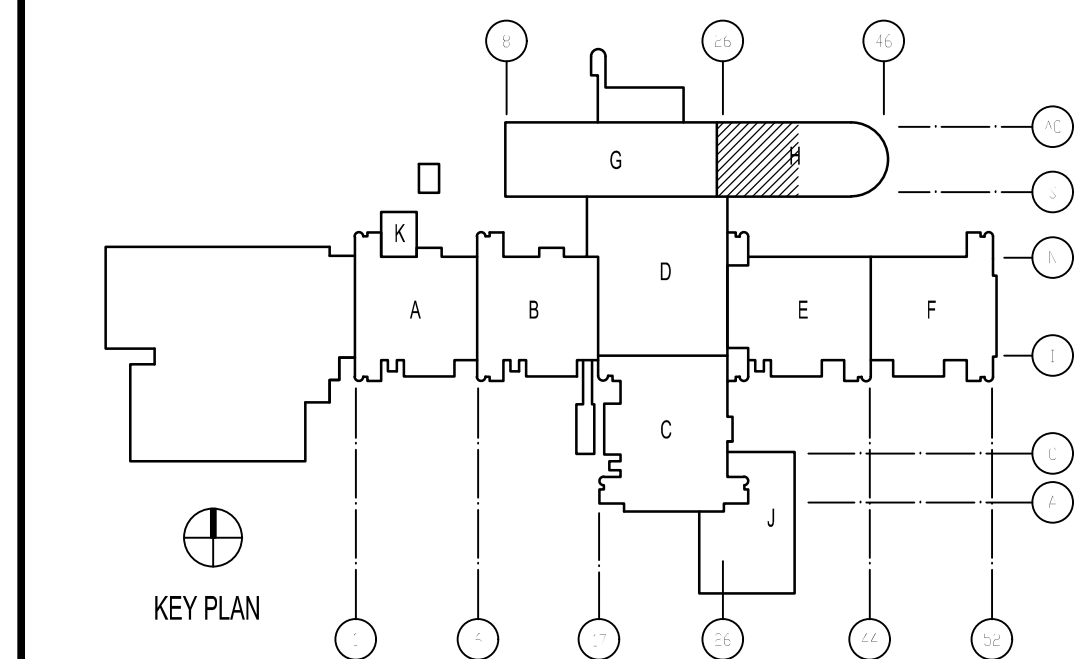
## KEYED NOTES

1. CONTRACTOR SHALL REMOVE CEILING TILE AND OR GRID AS NEEDED FOR INSTALLATION OF MECHANICAL SYSTEMS. SPRINKLER HEADS ARE TO REMAIN IN PLACE. CEILING SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.
2. CONTRACTOR SHALL REMOVE GYPSUM CEILING AS NEEDED FOR INSTALLATION OF MECHANICAL SYSTEMS. SPRINKLER HEADS ARE TO REMAIN IN PLACE. CEILING SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.
3. CONTRACTOR SHALL REMOVE GYPSUM CEILING, NEW MOISTURE RESISTANT ACOUSTICAL CEILING AND GRID SHALL BE INSTALLED. REFER TO MC401 FOR NEW REFLECTED CEILING PLAN.
4. CONTRACTOR SHALL REMOVE AND PROTECT CURTAIN TRACK. RE-INSTALL AFTER CEILING IS RESTORED.

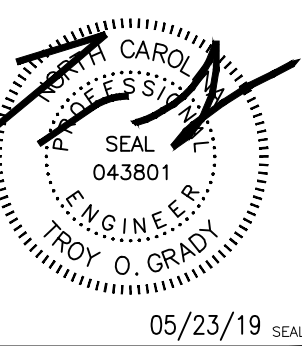
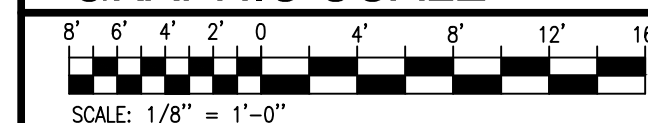
## GENERAL NOTES

1. ATTEMPT HAS BEEN MADE TO LOCATE AND IDENTIFY ALL CEILING EQUIPMENT AND DEVICES. NOTWITHSTANDING, ALL EQUIPMENT ABOVE CEILING AND ALL CEILING MOUNTED EQUIPMENT AND DEVICES SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION AND BE FULLY OPERATIONAL AFTER CONSTRUCTION IS COMPLETE.
2. CEILING DEMOLITION SHADING IS A SUGGESTED AREA AND ACTUAL DEMOLITION AREA MAY BE LESS OR GREATER THAN SPECIFIED AREA. CONTRACTOR SHALL DETERMINE FINAL DEMOLITION AREA NEEDED BASED UPON FIELD CONDITIONS AS WELL AS MATERIALS TO BE INSTALLED.
3. CONTRACTOR SHALL DOCUMENT CEILING CONDITIONS PRIOR TO BEGINNING WORK.
4. REFER TO ELECTRICAL PLANS FOR ADDITIONAL DEVICES IN CEILING.
5. CONTRACTOR SHALL RESTORE CEILING TO PRE-CONSTRUCTION OR BETTER CONDITION. POST-CONSTRUCTION CEILING APPEARANCE SHALL BE UNIFORM. CONTRACTOR SHALL REPLACE ALL TILES AND/OR GRID IN ROOM AS NEEDED TO ACHIEVE UNIFORM APPEARANCE.
6. WORK SHALL BE PHASED SUCH THAT ONLY SMALL PORTIONS (1400 SF MAX) OF THE HOSPITAL ARE AFFECTED AT A TIME. CONTRACTOR SHALL ISOLATE CONSTRUCTION AREAS USING APPROPRIATE HARD OR PLASTIC BARRIERS. BARRIERS MUST CONTINUE ABOVE CEILINGS TO DECK ABOVE. ALL PENETRATIONS THRU BARRIER MUST BE SEALED. REMOVE AIR FROM THE CONSTRUCTION AREA USING NEGATIVE PRESSURE MEASURES THAT VENT THRU HEPA FILTERS BEFORE BEING INTRODUCED INTO THE ADJACENT AREAS. SPRINKLER HEADS SHALL HAVE HEAT COLLECTORS INSTALLED ON THEM WHILE CEILINGS ARE REMOVED.

## KEY PLAN



## GRAPHIC SCALE



2246 Yaupon Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.5266  
[www.cbhfengineers.com](http://www.cbhfengineers.com)

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A/E INF

ED

MMVANDER NAVFAC

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David Hartley via Email

CTORY TO DATE : 05/21/2019

WTB	DRW	WTB	CHK	TOG
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DWB/KDB

H. MANAGER

ENG/ARCH EJA

PROTECTION		

C.

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DATE	NAME	LAST	INITIALS	NO.
10/10/10	JOHN	DOE	J.D.	1
10/11/10	JANE	SMITH	J.S.	2
10/12/10	JOHN	SMITH	J.S.	3
10/13/10	JANE	DOE	J.D.	4
10/14/10	JOHN	DOE	J.D.	5
10/15/10	JANE	SMITH	J.S.	6
10/16/10	JOHN	SMITH	J.S.	7
10/17/10	JANE	DOE	J.D.	8
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11/02/10	JANE	DOE	J.D.	24
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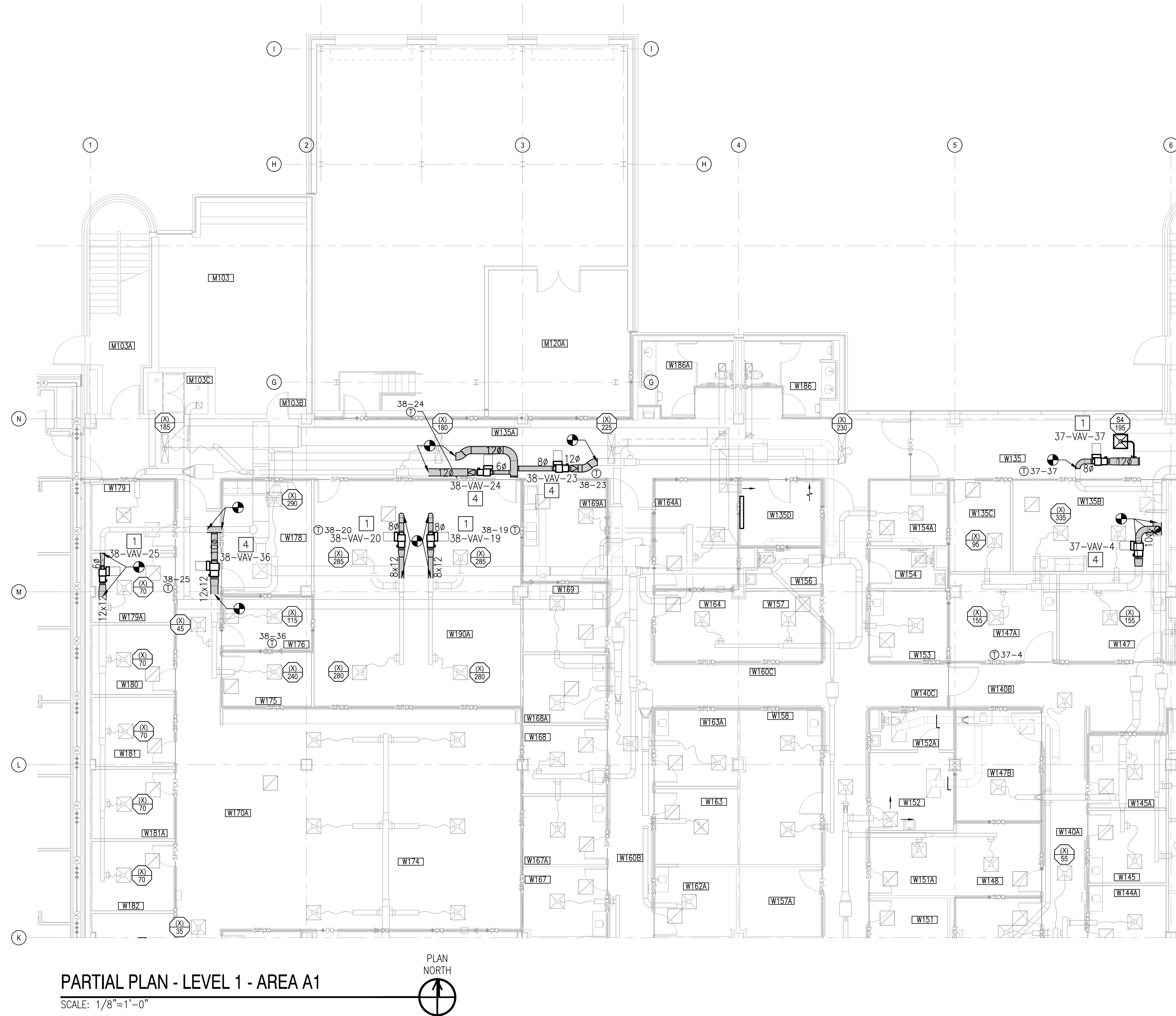
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## KEYED NOTES

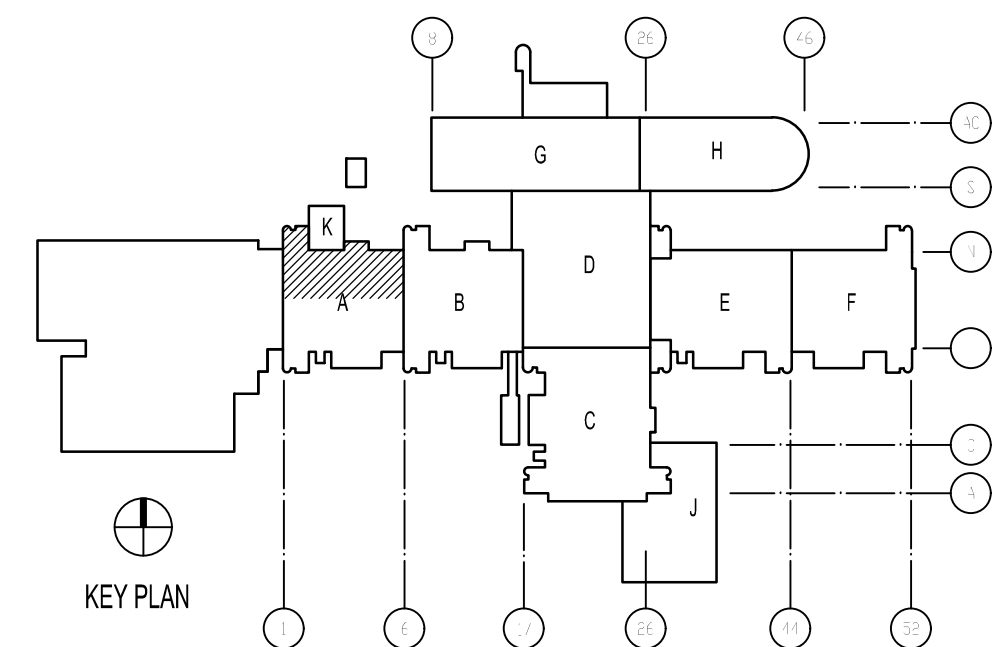
- 1 INSTALL NEW VAV BOX WITH REHEAT COILS IN LOCATION SHOWN MAINTAINING REQUIRED CLEARANCES FOR MAINTENANCE. PROVIDE NEW DUCTWORK UPSTREAM AND DOWNSTREAM FROM BOX TO EXTENT SHOWN. PROVIDE DUCT TRANSITIONS AS NEEDED TO CONNECT TO EXISTING DUCTWORK.
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- 5 PROVIDE NEW PENETRATION THROUGH RATED WALL FOR NEW DUCTWORK.
- 6 INSTALL NEW DUCTWORK. PROVIDE TRANSITIONS AS NEEDED TO CONNECT TO EXISTING DUCTWORK.

\* NOTES ABOVE NOT INDICATED ON ALL PLANS.

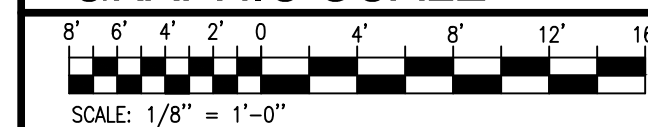
## GENERAL NOTES

1. PROTECT ALL PENETRATIONS THRU SMOKE AND FIRE RATED WALL IN ACCORDANCE WITH NFPA 90A AND SECTION 714 OF THE IBC.
2. DIFFUSER TAGS ON EXISTING DIFFUSERS TO BE USED FOR TAB PURPOSES.

## KEY PLAN



## GRAPHIC SCALE

[illegible]



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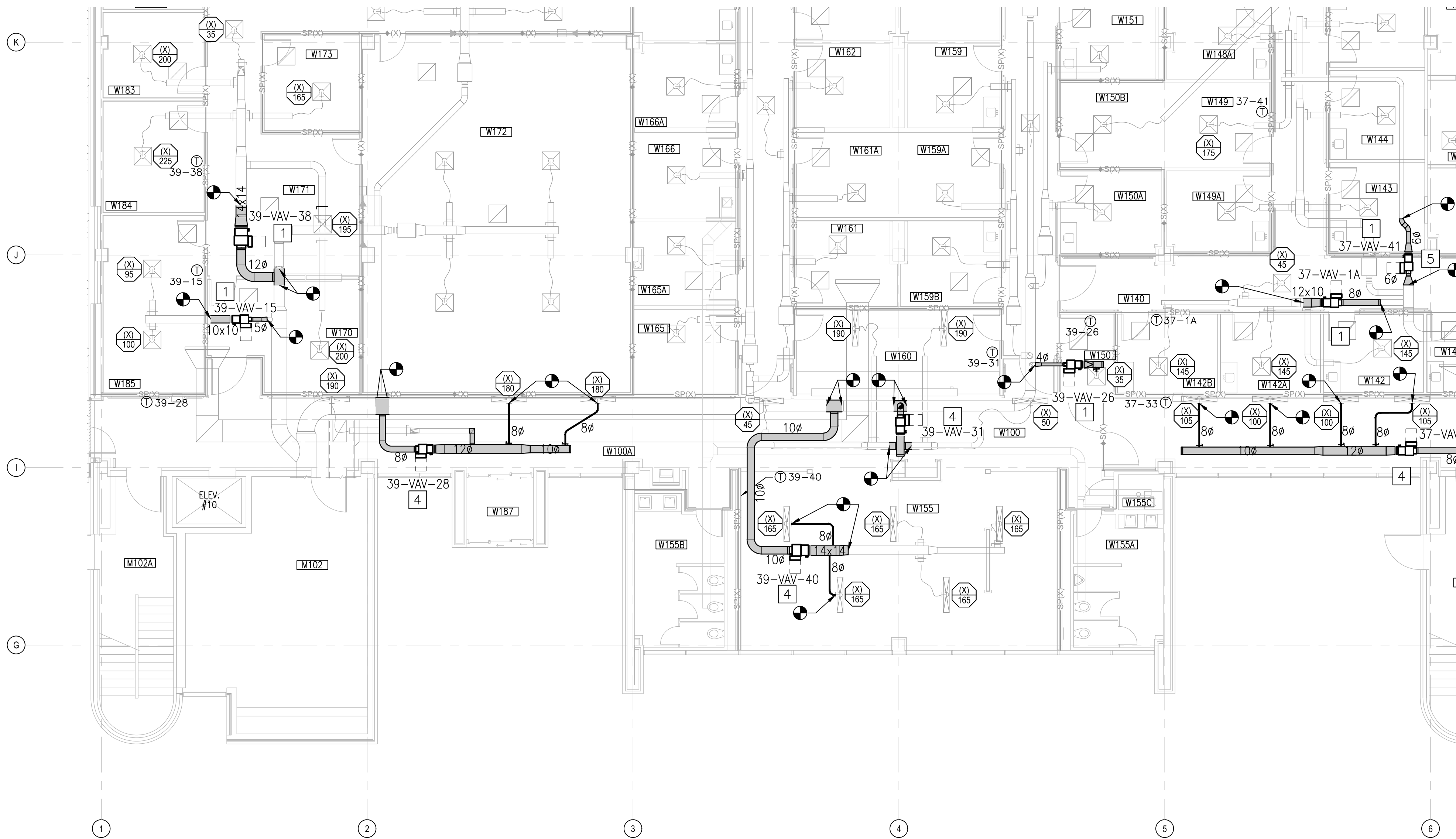
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PARTIAL PLAN - LEVEL 1 - AREA A2

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



KEYED NOTES

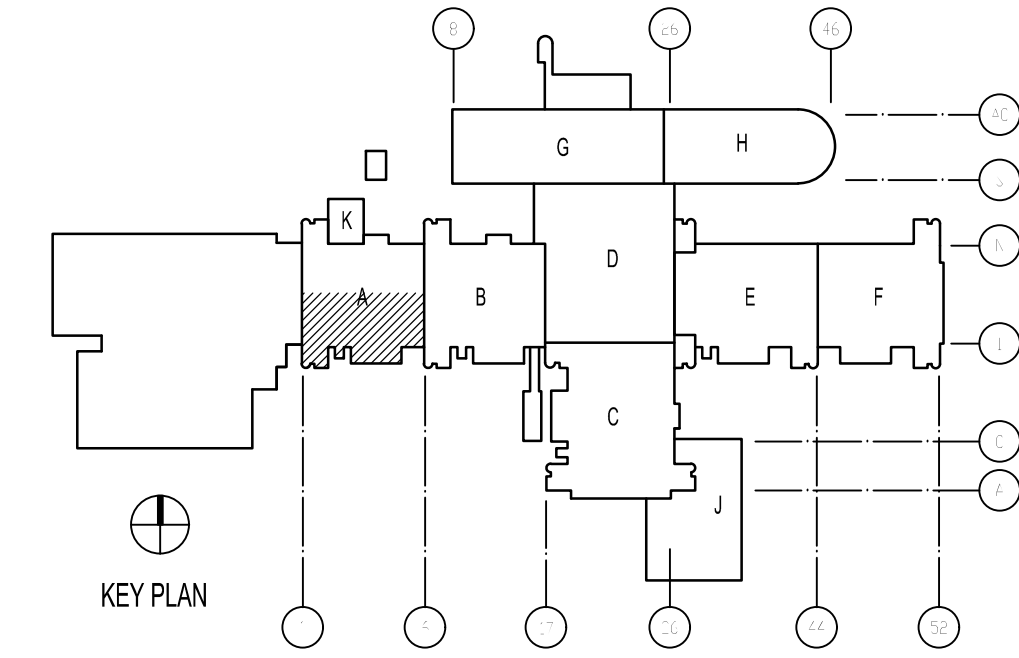
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\* NOTES ABOVE NOT INDICATED ON ALL PLANS.

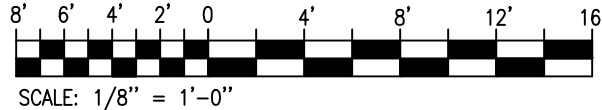
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2. DIFFUSER TAGS ON EXISTING DIFFUSERS TO BE USED FOR TAB PURPOSES.

KEY PLAN



GRAPHIC SCALE



APPROVED	DATE	05/23/19
FOR COMMANDER NAVFAC	DESCRIPTION	ISSUED FOR CONSTRUCTION
ACTIVITY	SYN	0
LT David Hartley via Email SATISFACTORY TO DATE: 05/21/2019		
DES TOG DRW WTB CHK TOG		
RM/DM DWB/KDB		
BRANCH MANAGER		
CHIEF ENG/ARCH EJA		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC NAVAL STATION, WOLFOL, VIRGINIA U.S. MARINE CORPS REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL CAMP LEJUNE, N.C. PARTIAL MECHANICAL HVAC PLAN LEVEL 1 - AREA A2		
SCALE: AS NOTED		
EPROJECT NO.:		
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO. 12790459		
SHEET 60 OF 196		
M-101-A2		
DRAWING REVISION: 31 JANUARY 2017		

PARTIAL PLAN - LEVEL 1 - AREA B1

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



## KEYED NOTES

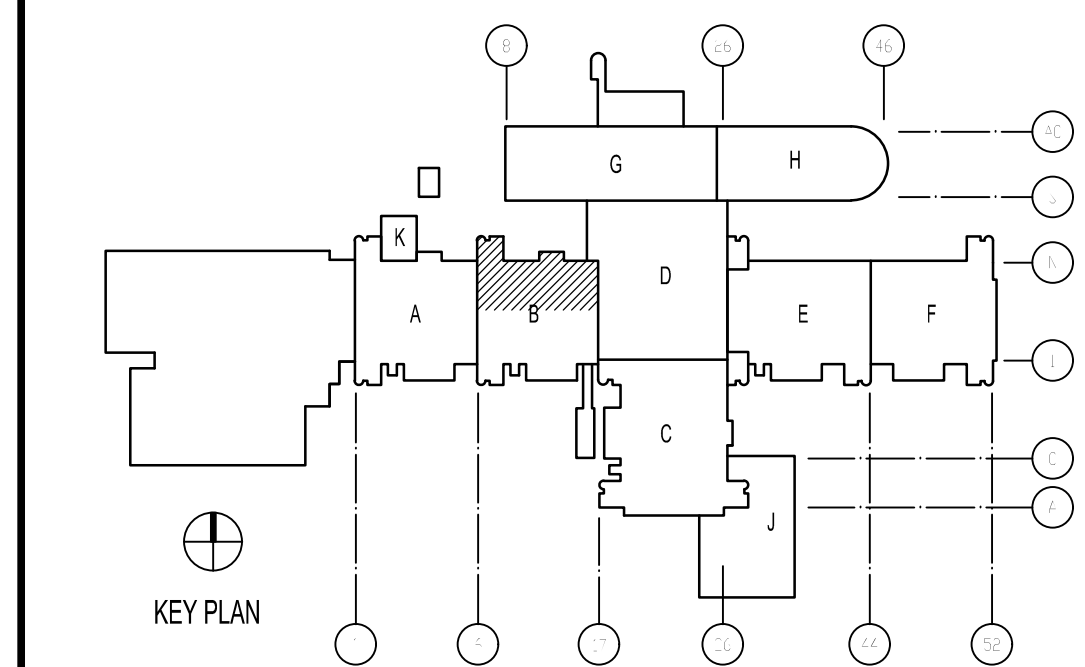
- 1 INSTALL NEW VAV BOX WITH REHEAT COILS IN LOCATION SHOWN MAINTAINING REQUIRED CLEARANCES FOR MAINTENANCE. PROVIDE NEW DUCTWORK UPSTREAM AND DOWNSTREAM FROM BOX TO EXTENT SHOWN. PROVIDE DUCT TRANSITIONS AS NEEDED TO CONNECT TO EXISTING DUCTWORK.
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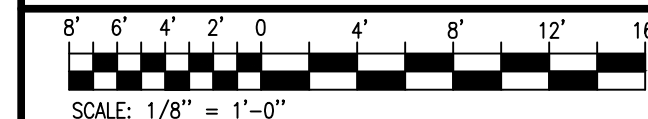
## GENERAL NOTES

1. PROTECT ALL PENETRATIONS THRU SMOKE AND FIRE RATED WALL IN ACCORDANCE WITH NFPA 90A AND SECTION 714 OF THE IBC.
2. DIFFUSER TAGS ON EXISTING DIFFUSERS TO BE USED FOR TAB PURPOSES.

## KEY PLAN



## GRAPHIC SCALE

[illegible]





PARTIAL PLAN - LEVEL 1 - AREA B2

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

PLAN  
NORTH



KEYED NOTES

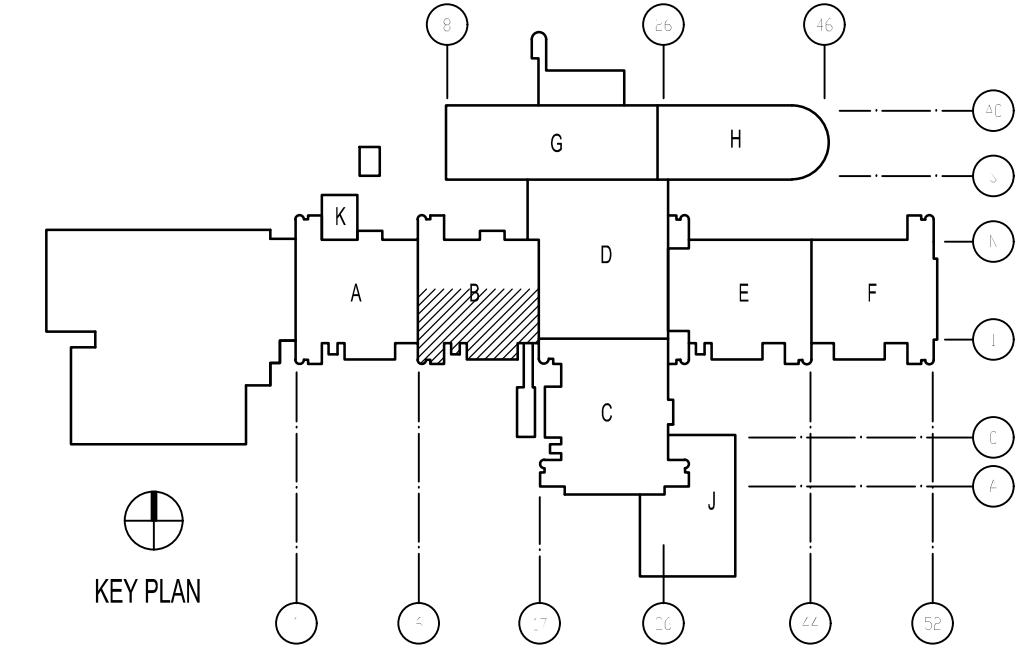
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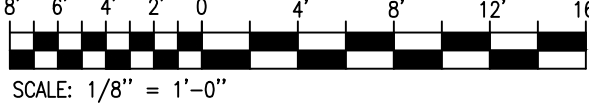
GENERAL NOTES

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2. DIFFUSER TAGS ON EXISTING DIFFUSERS TO BE USED FOR TAB PURPOSES.

KEY PLAN



GRAPHIC SCALE



DATE		05/23/19	
SYN		0	
DESCRIPTION		ISSUED FOR CONSTRUCTION	
APPR			

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**CBHF**  
Engineers, PLLC

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

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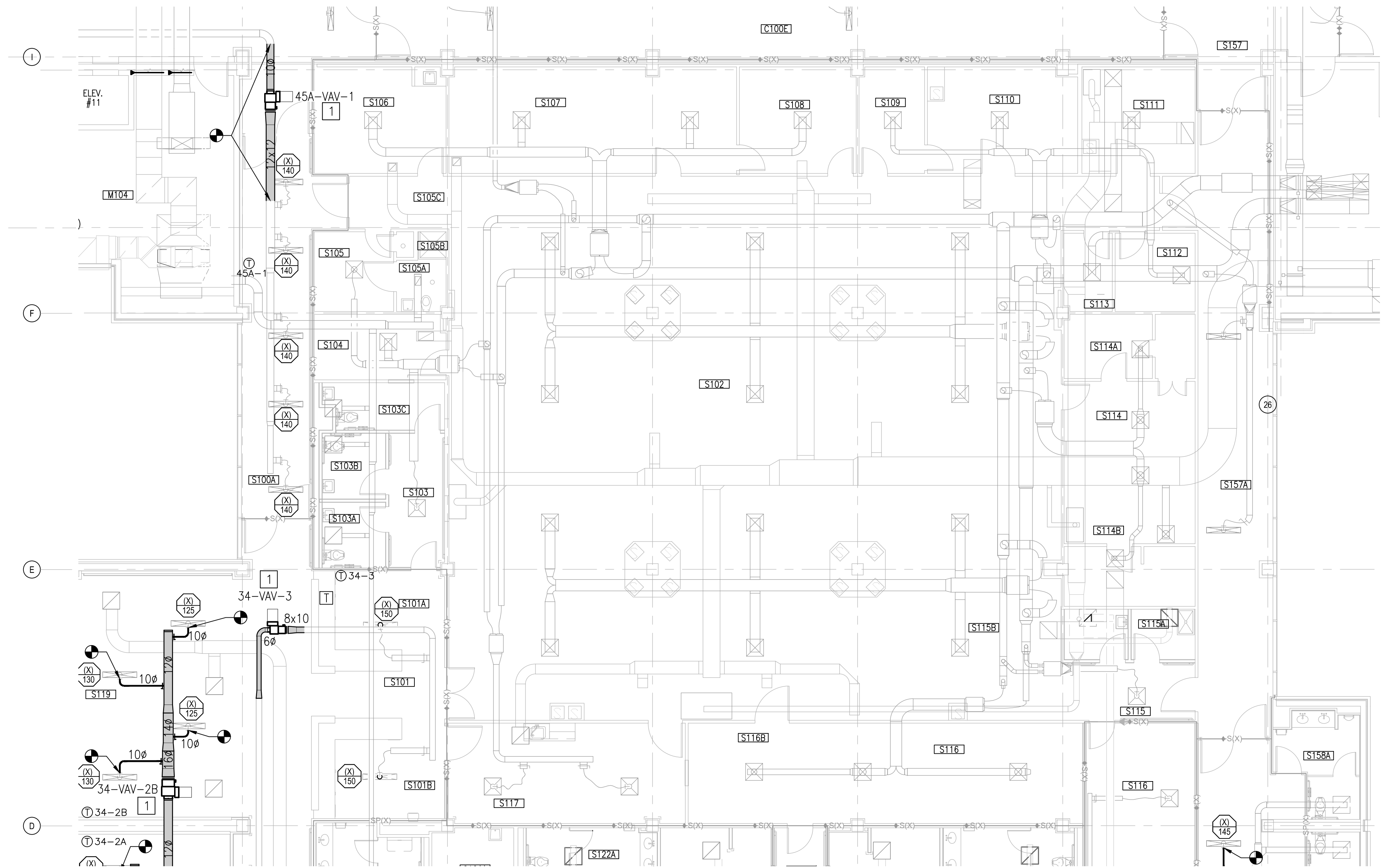
APPROVED
FOR COMMANDER NAFAC
ACTIVITY
LT David Hartley via Email
SATISFACTORY TO DATE : 05/21/2019
DES TOG DRW WTB CHK TOG
PM/DM DWB/KDB
BRANCH MANAGER
CHIEF ENG/ARCH EJA
FIRE PROTECTION

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL STATION, WASHINGTON, D.C.

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

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL HVAC PLAN  
LEVEL 1 - AREA B2

SCALE:	AS NOTED
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12790461
SHEET	62 OF 196
M-101-B2	
DRAWING REVISION: 31 JANUARY 2017	



PARTIAL PLAN - LEVEL 1 - AREA C1

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



## KEYED NOTES

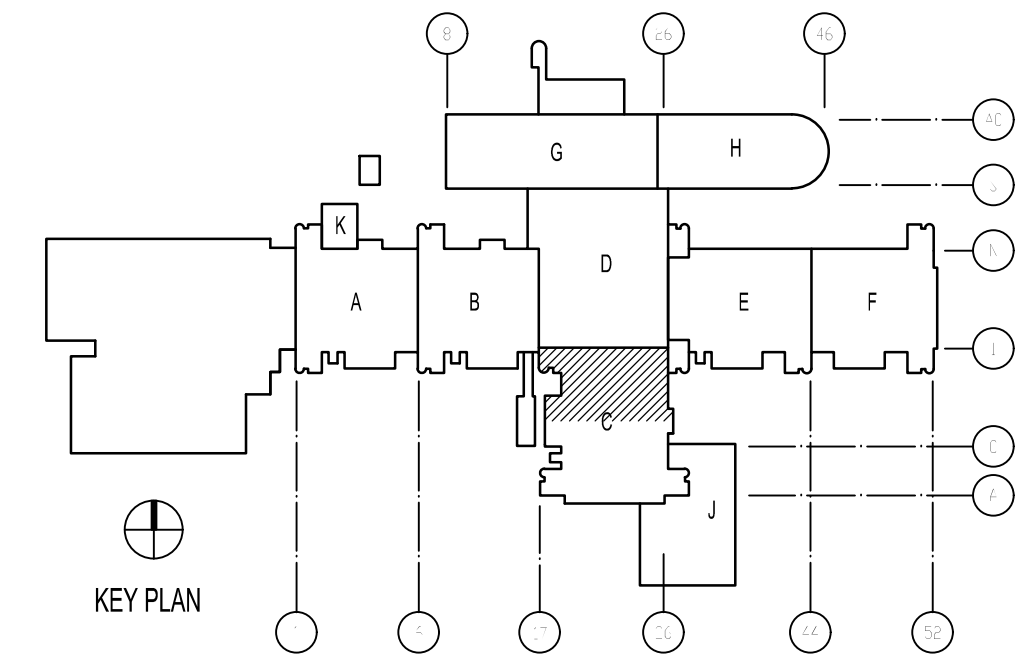
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\* NOTES ABOVE NOT INDICATED ON ALL PLANS.

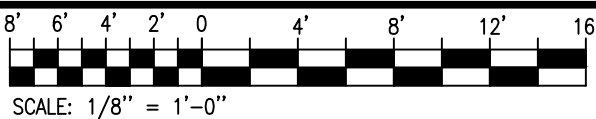
## GENERAL NOTES

1. PROTECT ALL PENETRATIONS THRU SMOKE AND FIRE RATED WALL IN ACCORDANCE WITH NFPA 90A AND SECTION 714 OF THE IBC.
2. DIFFUSER TAGS ON EXISTING DIFFUSERS TO BE USED FOR TAB PURPOSES.

## KEY PLAN



## GRAPHIC SCALE



APPROVED	DATE	05/23/19	APP
FOR COMMANDER NAVFAC	ISSUED FOR CONSTRUCTION	0	SYN
ACTIVITY	DESCRIPTION	0	SYN
LT David Hartley via Email	DATE : 05/21/2019		
SATISFACTORY TO	DES	TOG	DRW
DES	TOG	DRW	WTB
PM/DM	DWB/KDB		
BRANCH MANAGER			
CHIEF ENG/ARCH	EJA		
FIRE PROTECTION			
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	MIDATLANTIC	
NAVAL FACILITIES ENGINEERING COMMAND	NAVAL STATION, WOLFOL, VIRGINIA		
U.S. MARINE CORPS	CAMP LEJUNE, N.C.		
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL	PARTIAL MECHANICAL HVAC PLAN		
	LEVEL 1 - AREA C1		
SCALE:	AS NOTED		
PROJECT NO.:			
CONSTR. CONTR. NO.			
NAVFAC DRAWING NO.	12790462		
SHEET	63	OF	196
M-101-C1			
DRAWING REVISION:	31 JANUARY 2017		



1

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3

4

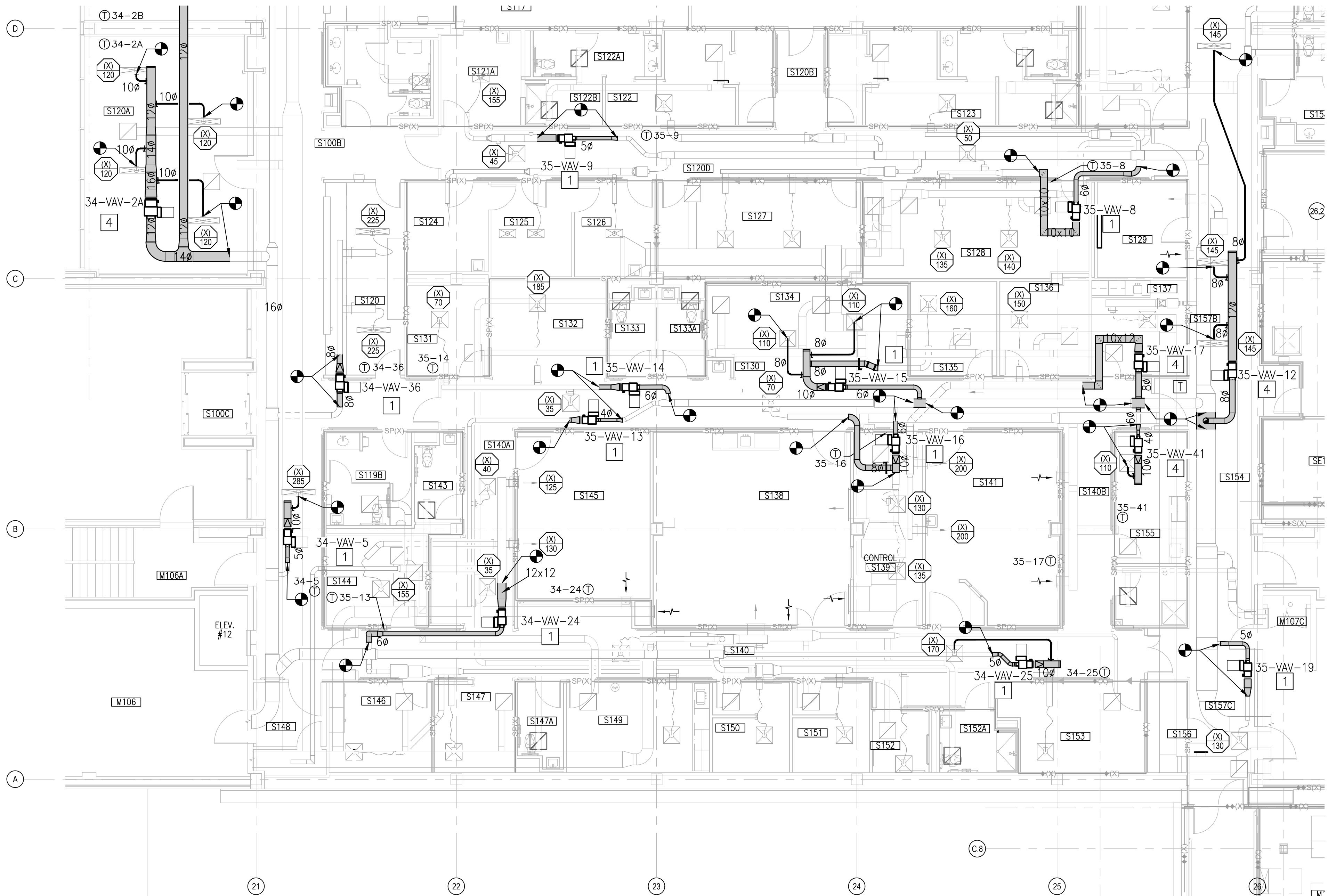
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D

C

B

A



PARTIAL PLAN - LEVEL 1 - AREA C2  
SCALE: 1/8"=1'-0"



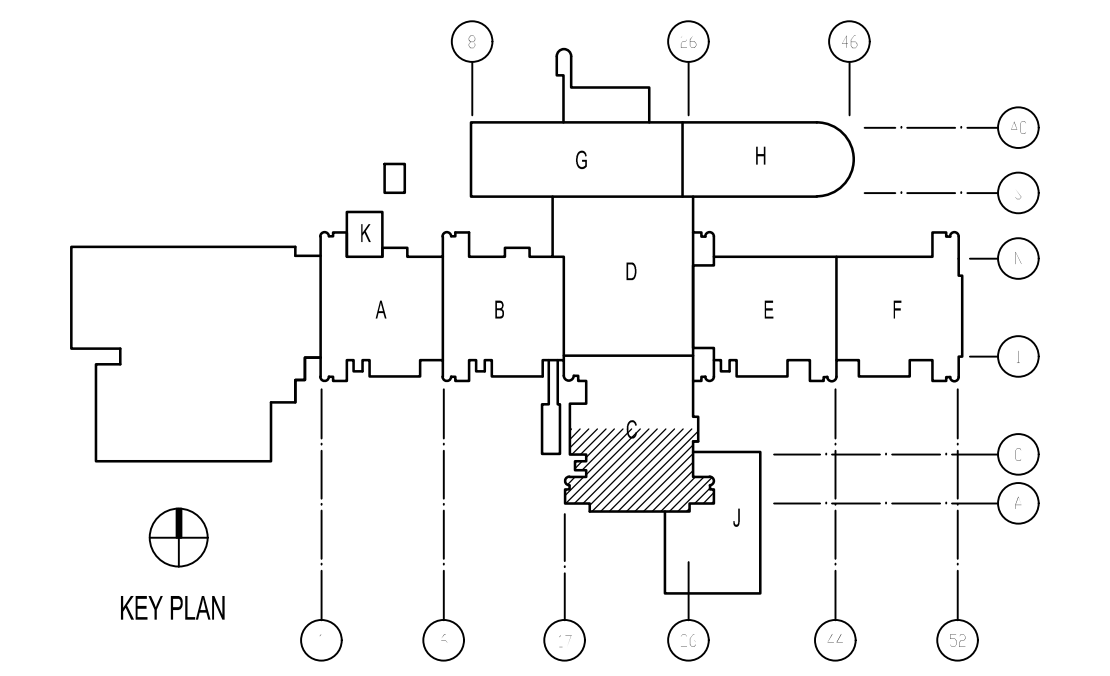
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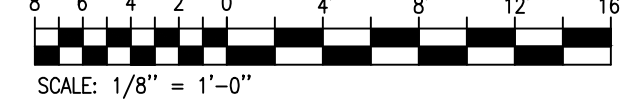
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KEY PLAN



GRAPHIC SCALE



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ISSUED FOR CONSTRUCTION		SYN: [Signature]
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[Stamp]		[Stamp]
05/23/19 SEAL		[Signature]
[Logo]		[Logo]
2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfenr.com		NCB #4356 A/E INFO
APPROVED		FOR COMMANDER NAVFAC
ACTIVITY		LT David Hartley via Email
SATISFACTORY TO		DATE: 05/21/2019
DES: TOG		DRW: WTB
CHK: TOG		PM/DM: DWB/KDB
BRANCH MANAGER		CHIEF ENG/ARCH: EJA
FIRE PROTECTION		REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL
CAMP LEJUNE, N.C.		PARTIAL MECHANICAL HVAC PLAN
LEVEL 1 - AREA C2		
SCALE: AS NOTED		
EPROJECT NO.:		
CONSTR. CONTR. NO.:		
NAVFAC DRAWING NO.:		12790463
SHEET 64 OF 196		
M-101-C2		
DRAWING REVISION: 31 JANUARY 2017		

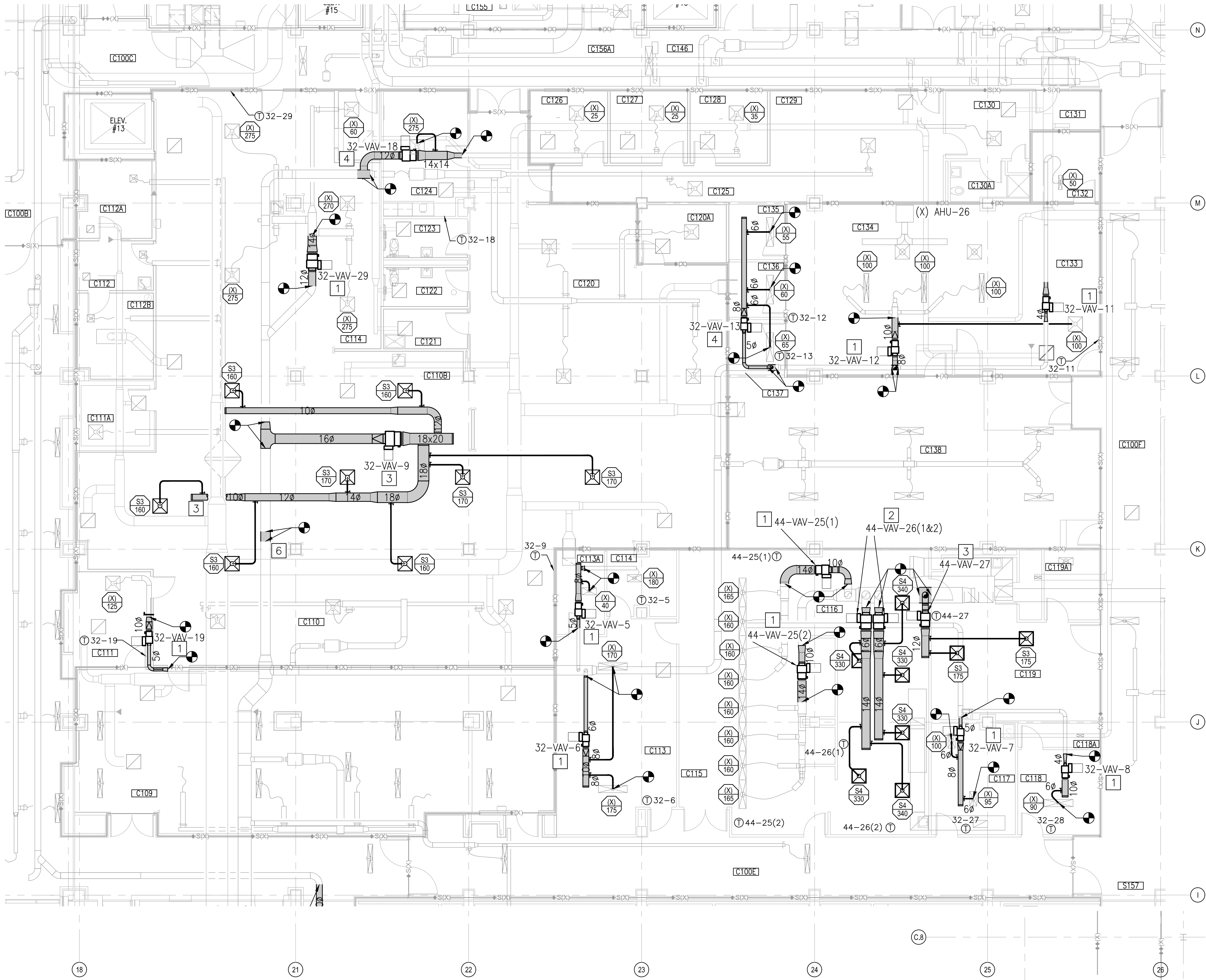


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PARTIAL PLAN - LEVEL 1 - AREA D2

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



KEYED NOTES

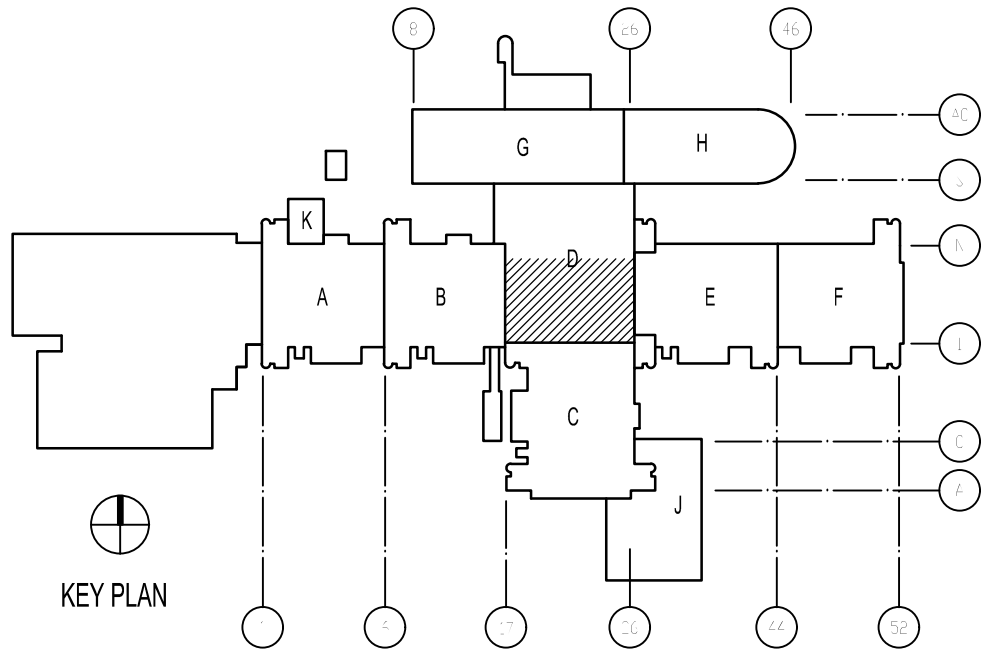
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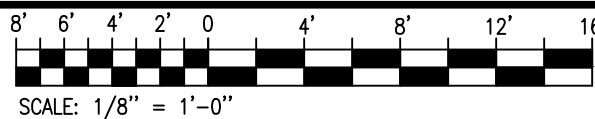
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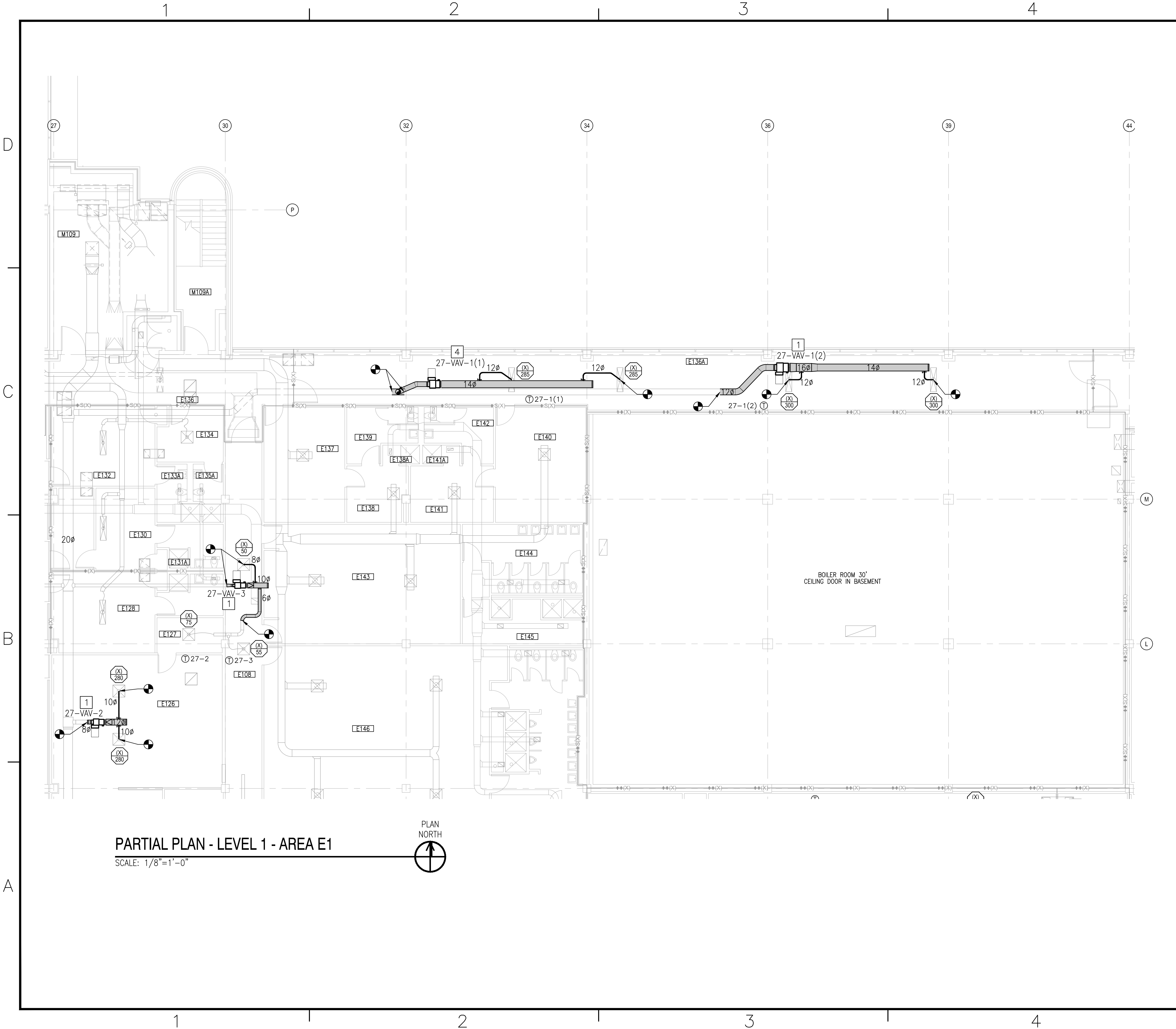


GRAPHIC SCALE



DATE: 05/23/19		APPR.
ISSUED FOR CONSTRUCTION		DATE
0	SYN	DESCRIPTION
05/23/19 SEAL		
<b>CBHF</b> Engineers, PLLC		
2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfenr.com		
© Copyright 2018 CBHF Engineers, PLLC NCE P-5516 A/E I-1070		
APPROVED		
FOR COMMANDER NAFAC		
ACTIVITY		
LT David Hartley via Email		
SATISFACTORY TO DATE: 05/21/2019		
DES	TOG	DRW
WDB	CHK	TOG
PM/DM	DWB	KDB
BRANCH MANAGER		
CHIEF ENG/ARCH		
EJA		
FIRE PROTECTION		
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL		
CAMP LEJEUNE, N.C.		
PARTIAL MECHANICAL HVAC PLAN		
LEVEL 1 - AREA D2		
M-101-D2		
DRAWING REVISION: 31 JANUARY 2017		





PARTIAL PLAN - LEVEL 1 - AREA E1

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



### KEYED NOTES

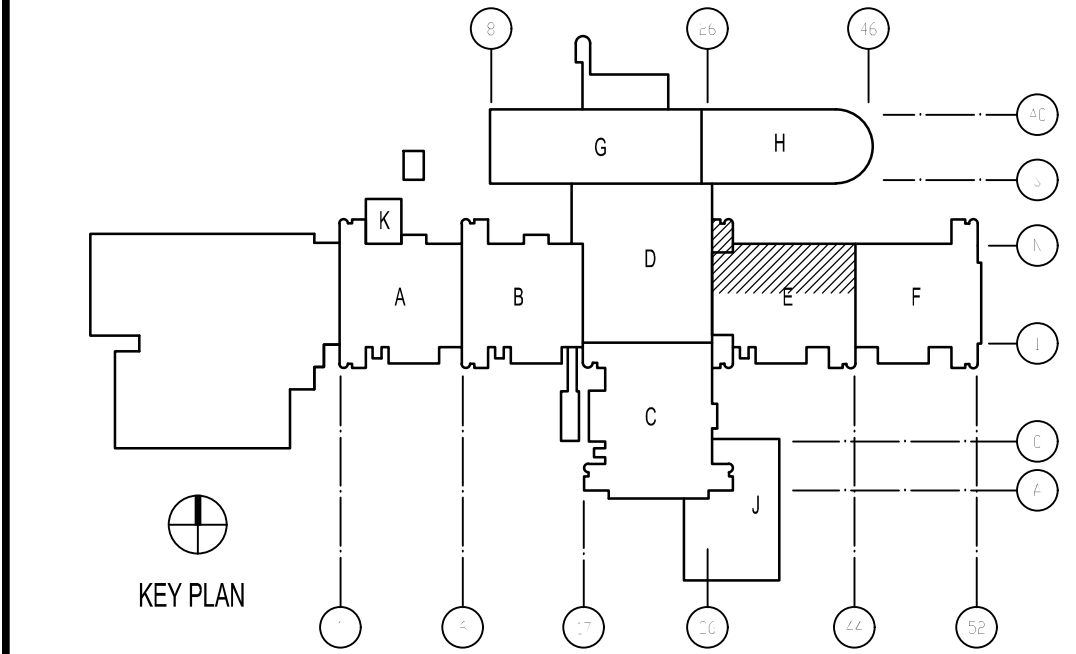
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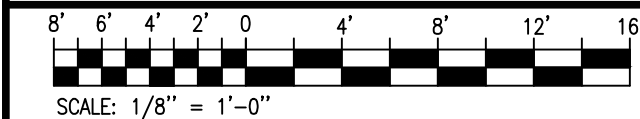
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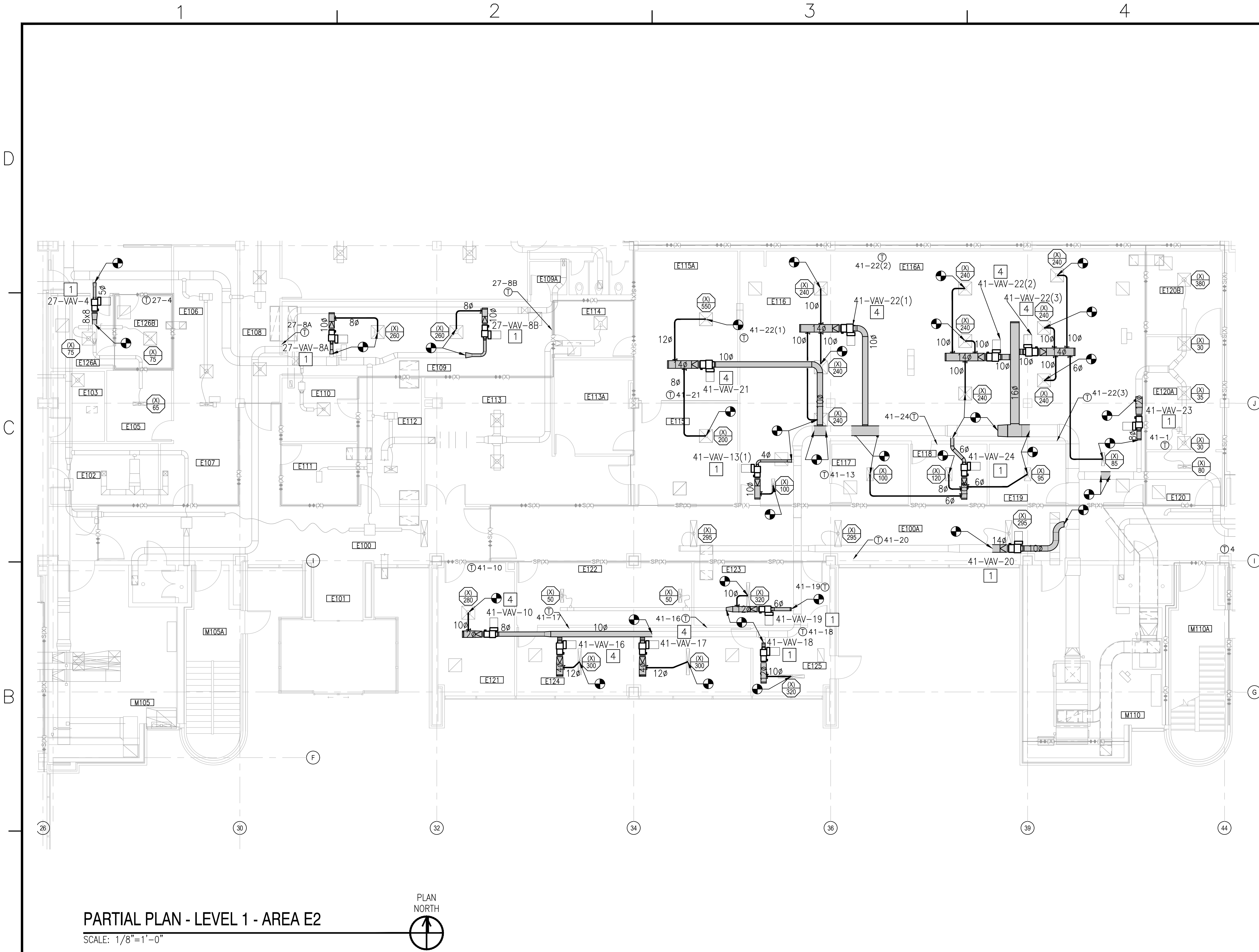
### KEY PLAN



### GRAPHIC SCALE



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ACTIVITY	DESCRIPTION	
LT David Hartley via Email		
SATISFACTORY TO DATE: 05/21/2019		
DES TOG DRW WTB CHK TOG		
PM/DM DWB/KDB		
BRANCH MANAGER		
CHIEF ENG/ARCH EJA		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC		
NAVAL STATION, WOFFORD, VIRGINIA		
U.S. MARINE CORPS		
CAMP LEJEUNE, N.C.		
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL		
PARTIAL MECHANICAL HVAC PLAN		
LEVEL 1 - AREA E1		
SCALE: AS NOTED		
PROJECT NO.:		
CONSTR. CONTR. NO.:		
NAVFAC DRAWING NO. 12790465		
SHEET 66 OF 196		
M-101-E1		
DRAWING REVISION: 31 JANUARY 2017		



## KEYED NOTES

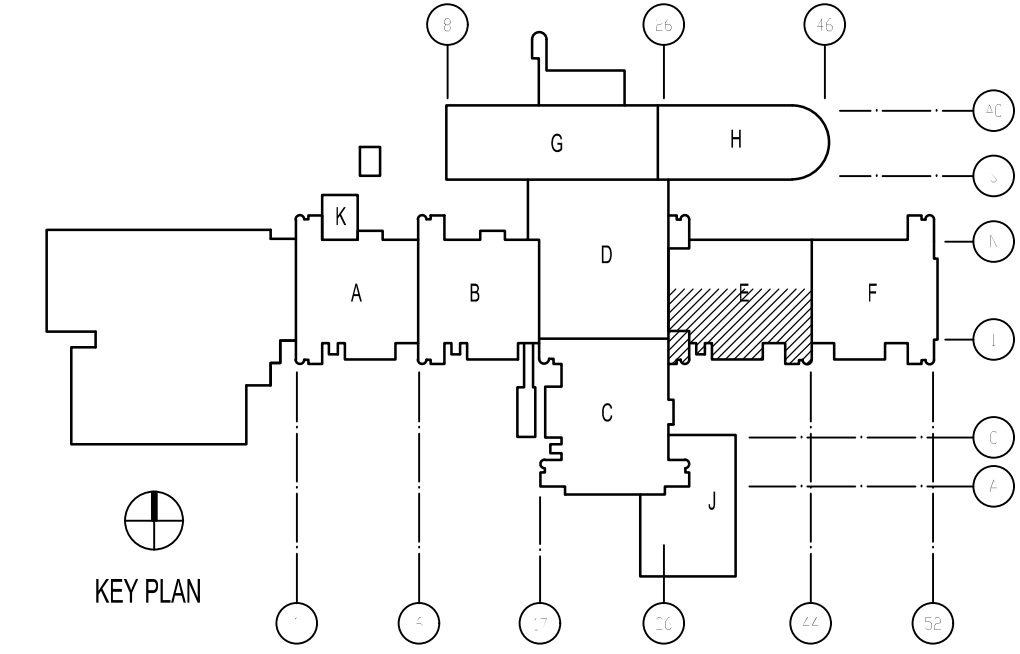
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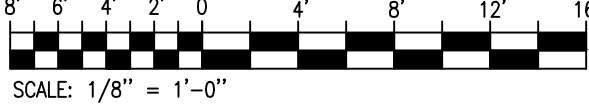
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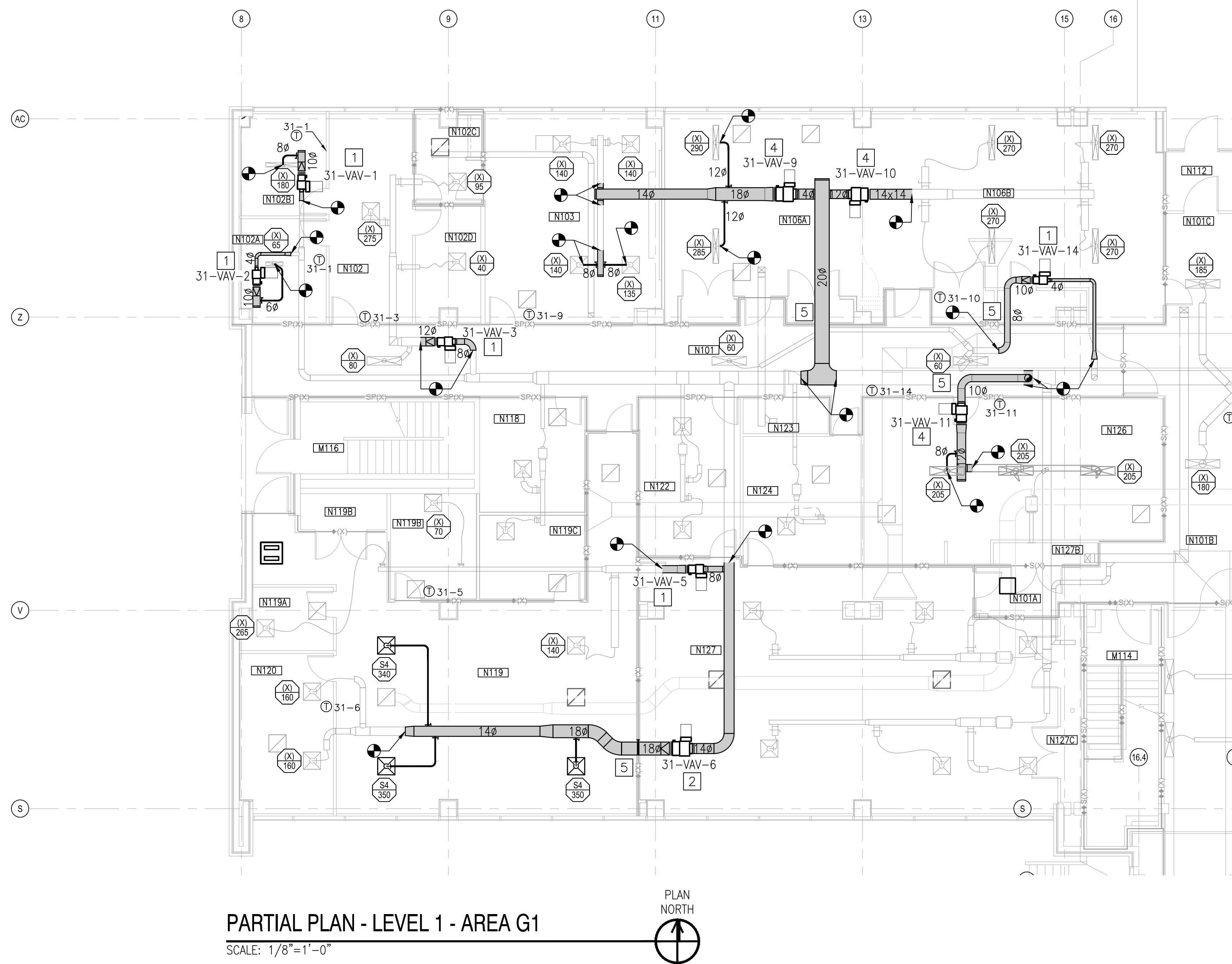
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<b>CBHF</b> Engineers, PLLC	
2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfenr.com	
© Copyright 2018 CBHF Engineers, PLLC NCE P-0516 A/E I-1070	
APPROVED	
FOR COMMANDER NAFAC	
ACTIVITY	
LT David Hartley via Email	
SATISFACTORY TO	DATE: 05/21/2019
DES	TOG
DRW	WTB
CHK	TOG
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CHIEF ENG/ARCH	EJA
FIRE PROTECTION	
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
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U.S. MARINE CORPS	CAMP LEJEUNE, N.C.
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL	
PARTIAL MECHANICAL HVAC PLAN	
LEVEL 1 - AREA E2	
M-101-E2	
DRAWING REVISION: 31 JANUARY 2017	







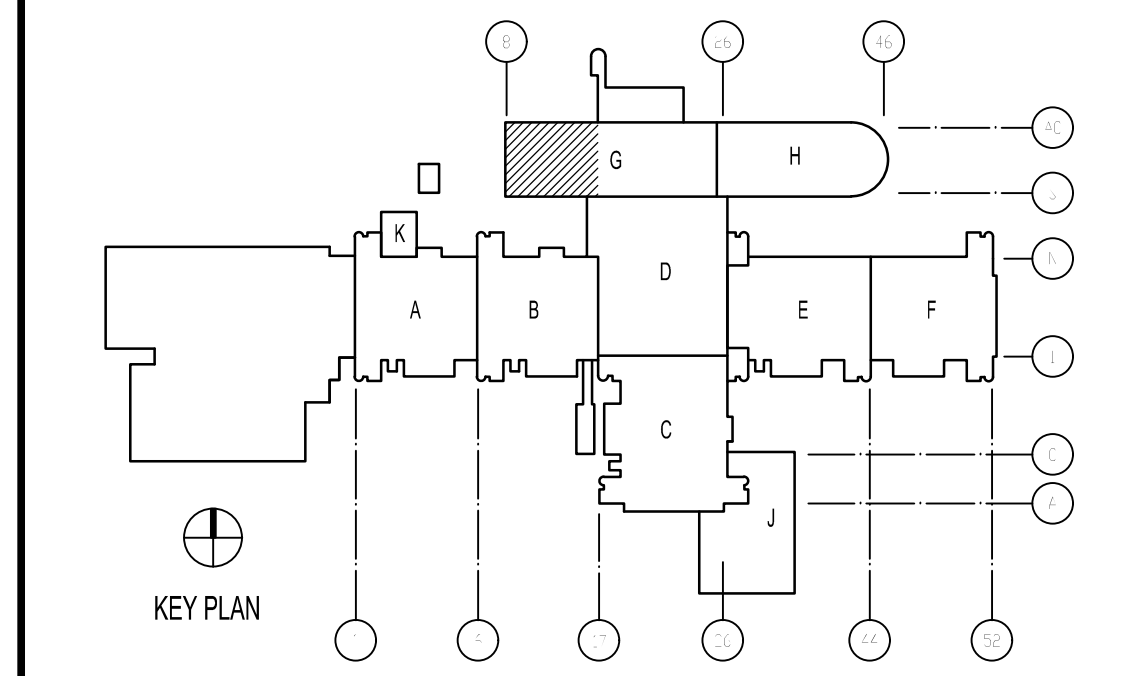
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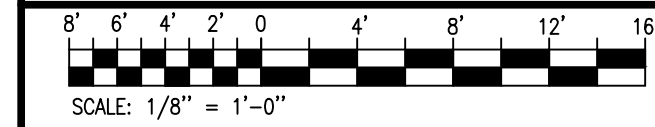
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## KEY PLAN



## GRAPHIC SCALE

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