

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

PARTIAL PLAN - LEVEL 2 - AREA E1  
SCALE: 1/8"=1'-0"

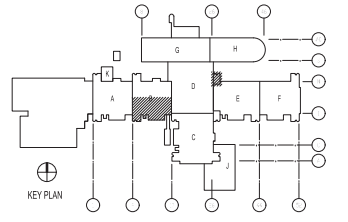
**KEYED NOTES**

- (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**



DATE	05.23.19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
<b>CBHF</b> Engineers, PLLC 2204B Tullaghan Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6286 www.cbhfindesign.com	
05/23/19 04:56 PM	
FOR COMMENT MARK 7/19/2019	
LT David Hartley via Email REFERENCE TO: 1620290	
EDR: KMC Low Rise Low 100	
PLAN: DWG/KDB	
BRANCH MANAGER: CADZ	
CHECK ENGINEER: EJA	
FIRE PROTECTION: HPV	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION, NORFOLK, VIRGINIA U.S. MARINE CORPS CAMP LEJEUNE, N.C. REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL PARTIAL MECHANICAL PIPING DEMOLITION PLAN - LEVEL 2 - AREA B2	
SCALE: AS NOTED	
CONSTRUCTION CONTROL NO.:	
NAVFAC DRAWING NO.: 12790435	
SHEET: 35 OF 136	
<b>MPD102-B2</b>	
DRAWING REVISION: 31 JANUARY 2017	

1 2 3 4 5

D  
C  
B  
A



PARTIAL PLAN - LEVEL 1 - AREA A1  
SCALE: 1/8" = 1'-0"

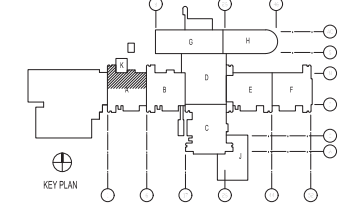
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- 1 CONTRACTOR SHALL REMOVE CEILING TILE AND/OR GRID AS NEEDED FOR INSTALLATION OF MECHANICAL SYSTEMS. SPRINKLER HEADS ARE TO REMAIN IN PLACE. CEILING SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.
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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

**GENERAL NOTES**

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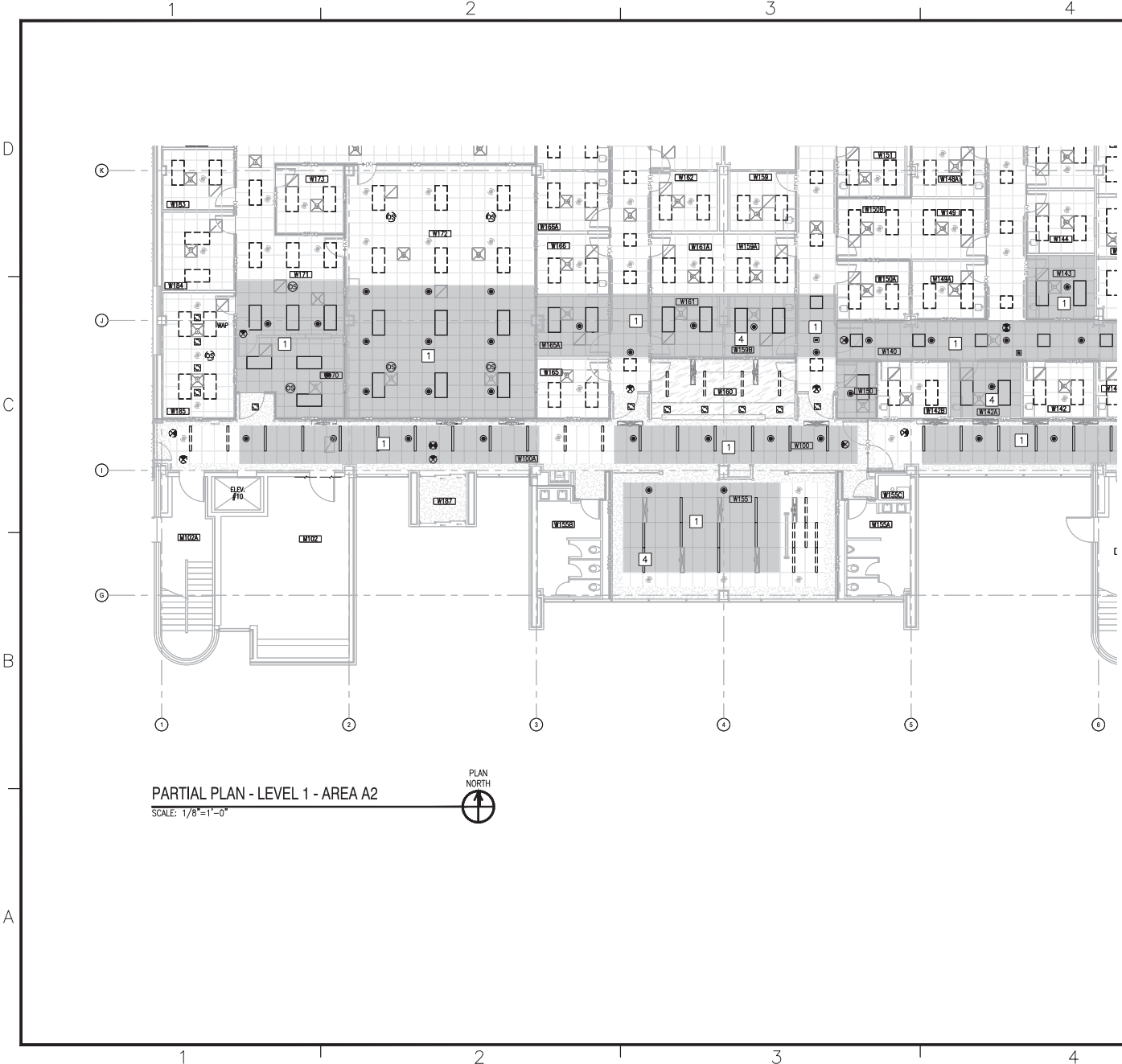
**KEY PLAN**



**GRAPHIC SCALE**



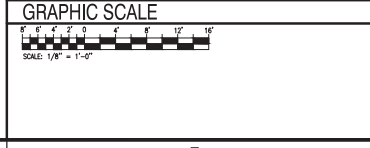
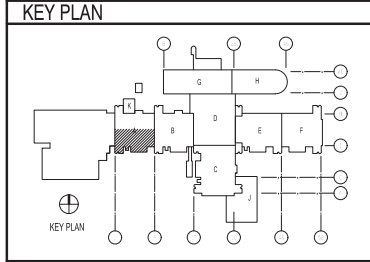
DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
  <b>CBHF</b> <b>Engineers, PLLC</b> 2248 Telephone Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6386 www.cbhfengineers.com FOR CONCRETE MARK 7/19/2019 L.T. David Hartley via Email Reference to: 12790436 100% 100% 100% 100% 100% PLAN DWG/DOB SHEET NUMBER 34/36 SHEET END/WORK FILE NUMBER PROJECT NO. CONDR. CONTR. NO. NAVFAC DRAWING NO. 12790436 SHEET 37 OF 156 <b>MC101-A1</b> DRAWING REVISION: 31 JANUARY 2017	



PARTIAL PLAN - LEVEL 1 - AREA A2  
 SCALE: 1/8" = 1'-0"

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DATE	05.23.19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
REV	

**CBHF**  
 Engineers, PLLC  
 2248 Visitation Drive  
 Wilmington, NC 28401  
 Phone: 910.791.4000  
 Fax: 910.791.6366  
 www.cbhfind.com

FOR COMMON MARK 7/19/2019

LT David Hartley via Email  
 REFERENCE TO: 1620289

DATE: 05/23/19  
 SCALE: 1/8" = 1'-0"

DEPARTMENT OF THE NAVY  
 NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
 NAVAL STATION, NORFOLK, VIRGINIA

U.S. MARINE CORPS  
 CAMP LEJEUNE, N.C.  
 REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
 PARTIAL MECHANICAL CEILING PLAN  
 LEVEL - AREA A2

SCALE: AS NOTED  
 CONDIC. CONTROL NO.  
 NAVFAC DRAWING NO. 12790437  
 SHEET 35 OF 136  
**MC101-A2**  
 DRAWING REVISION: 31 JANUARY 2017

1 2 3 4 5



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

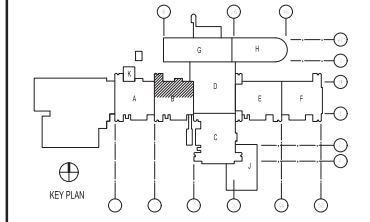
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KEY PLAN



GRAPHIC SCALE



DATE	05.23.19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
SCALE	AS NOTED
PROJECT NO.	12790438
CONDIC. CONTROL NO.	
NAVFAC DRAWING NO.	12790438
SHEET	35 OF 136
<b>MC101-B1</b>	

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, WASHINGTON, VIRGINIA  
NAVFAC DRAWING NO. 12790438  
SHEET 35 OF 136  
DATE: 05/23/19  
PROJECT: 12790438  
DRAWING REVISION: 31 JANUARY 2017

U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL CEILING PLAN - AREA B1

KEY PLAN

FOR COMMENT MARK 71912219

CBHF Engineers, PLLC  
2348 Village Green  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6386  
www.cbhfind.com

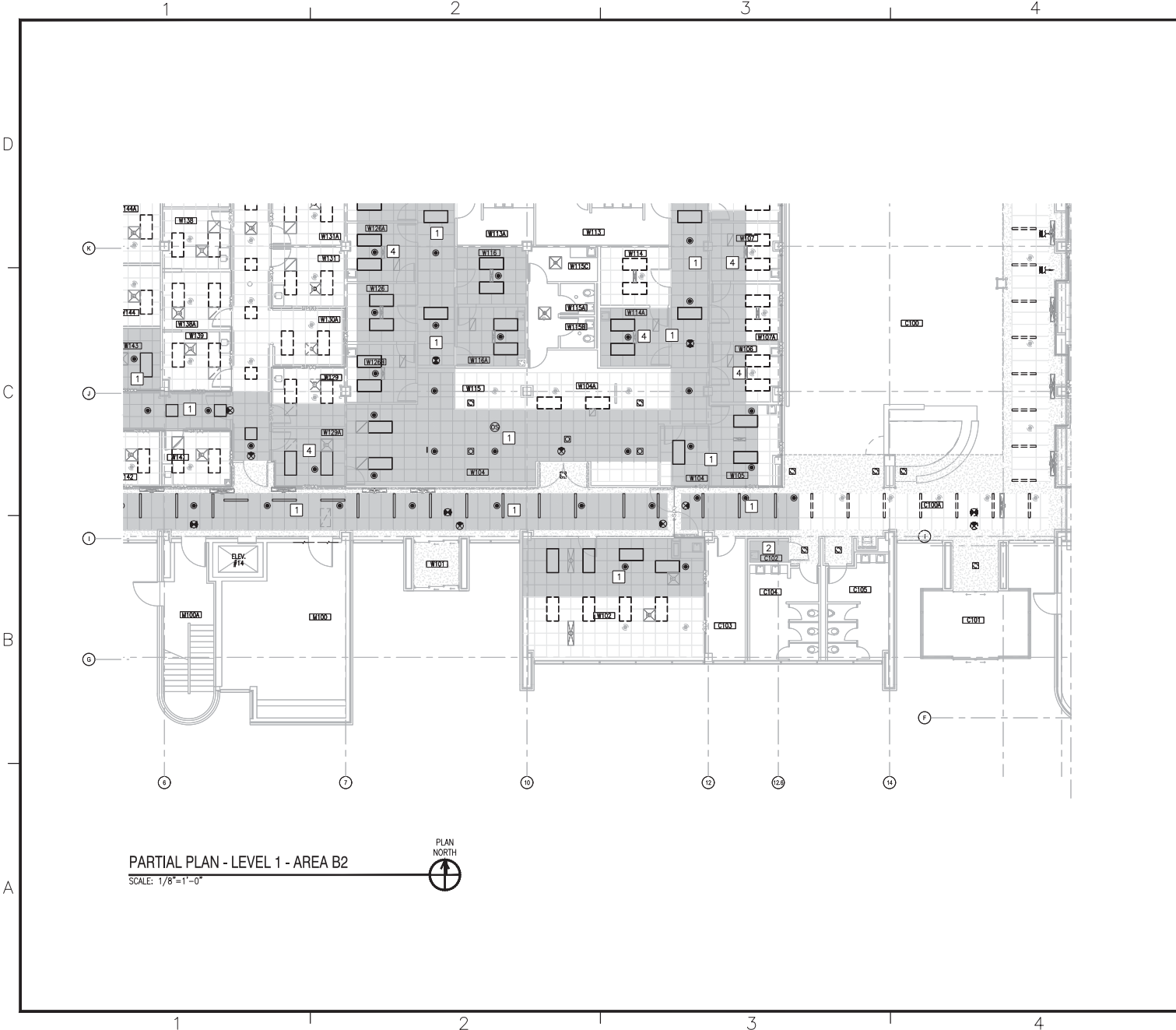
05/23/19

SEA 043801  
MAGNIFICENT  
D. CHAMBERS

LT David Hartley via Email  
Reference to 001 1620289

DESIGN: 100  
CHECK: 100  
DATE: 05/23/19

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



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



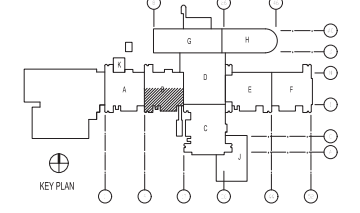
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**KEY PLAN**



**GRAPHIC SCALE**



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
BY	
APP	

**CBHF**  
Engineers, PLLC  
2248 Yallopson Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6266  
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FOR COMMON MISC 7/19/2019

REVISIONS

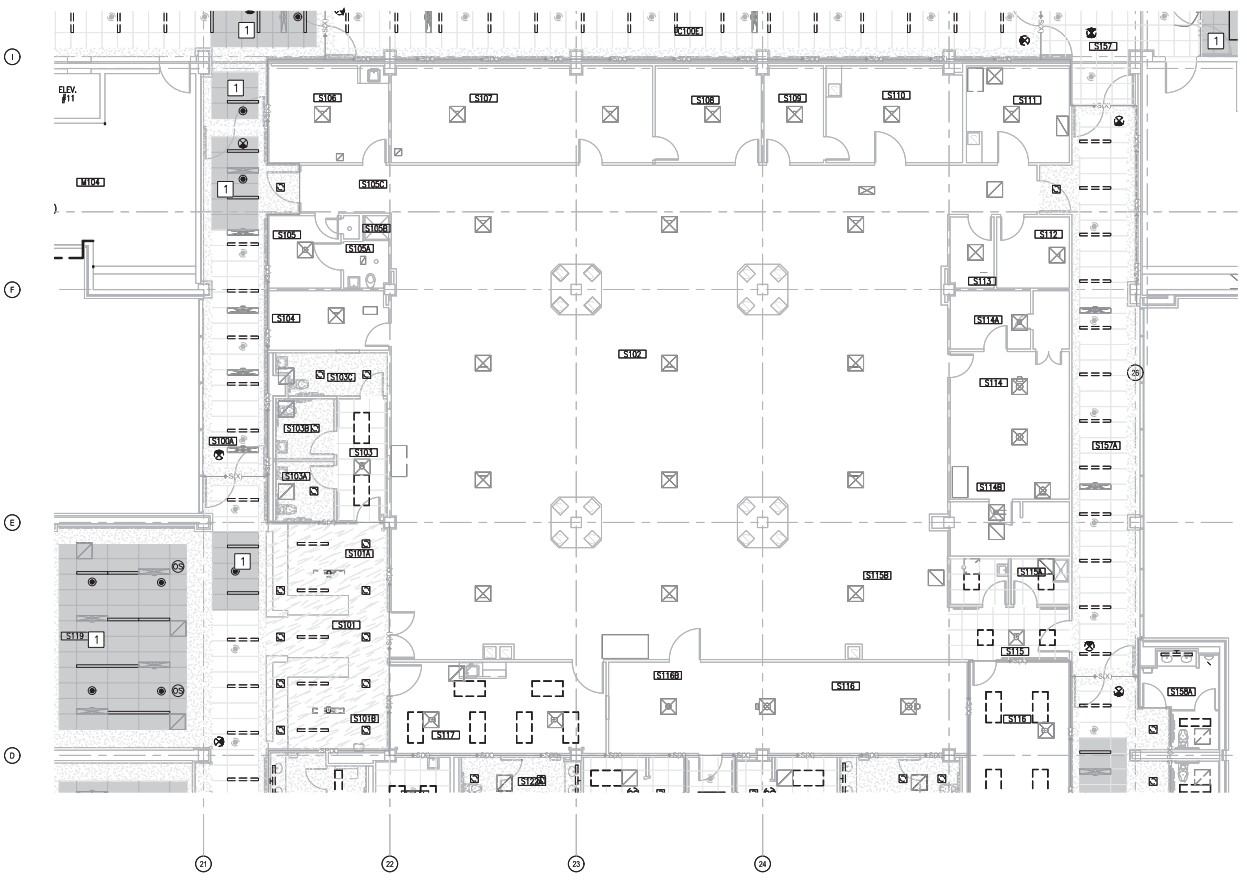
NO.	DATE	DESCRIPTION
1	05/23/19	ISSUED FOR CONSTRUCTION

U.S. MARINE CORPS  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, WASHINGTON, VIRGINIA

CAMP LEJEUNE, N.C.  
**REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL**  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL - B2

SCALE: AS NOTED  
PROJECT NO.:  
CONDIC. CONTROL NO.:  
NAVFAC DRAWING NO.: 12790439  
SHEET 42 OF 136  
**MC101-B2**  
DRAWING REVISION: 31 JANUARY 2017

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PARTIAL PLAN - LEVEL 1 - AREA C1  
SCALE: 1/8"=1'-0"

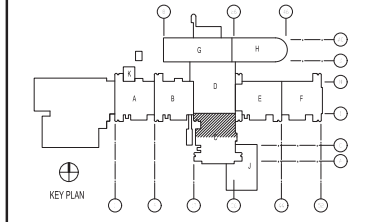
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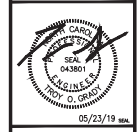
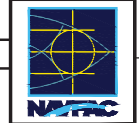
KEY PLAN



GRAPHIC SCALE



DATE	05.23.19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	



**CBHF**  
Engineers, PLLC  
2248 Yalagton Drive  
Wilmington, NC 28401  
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FOR COMMON MARK 7/19/2019

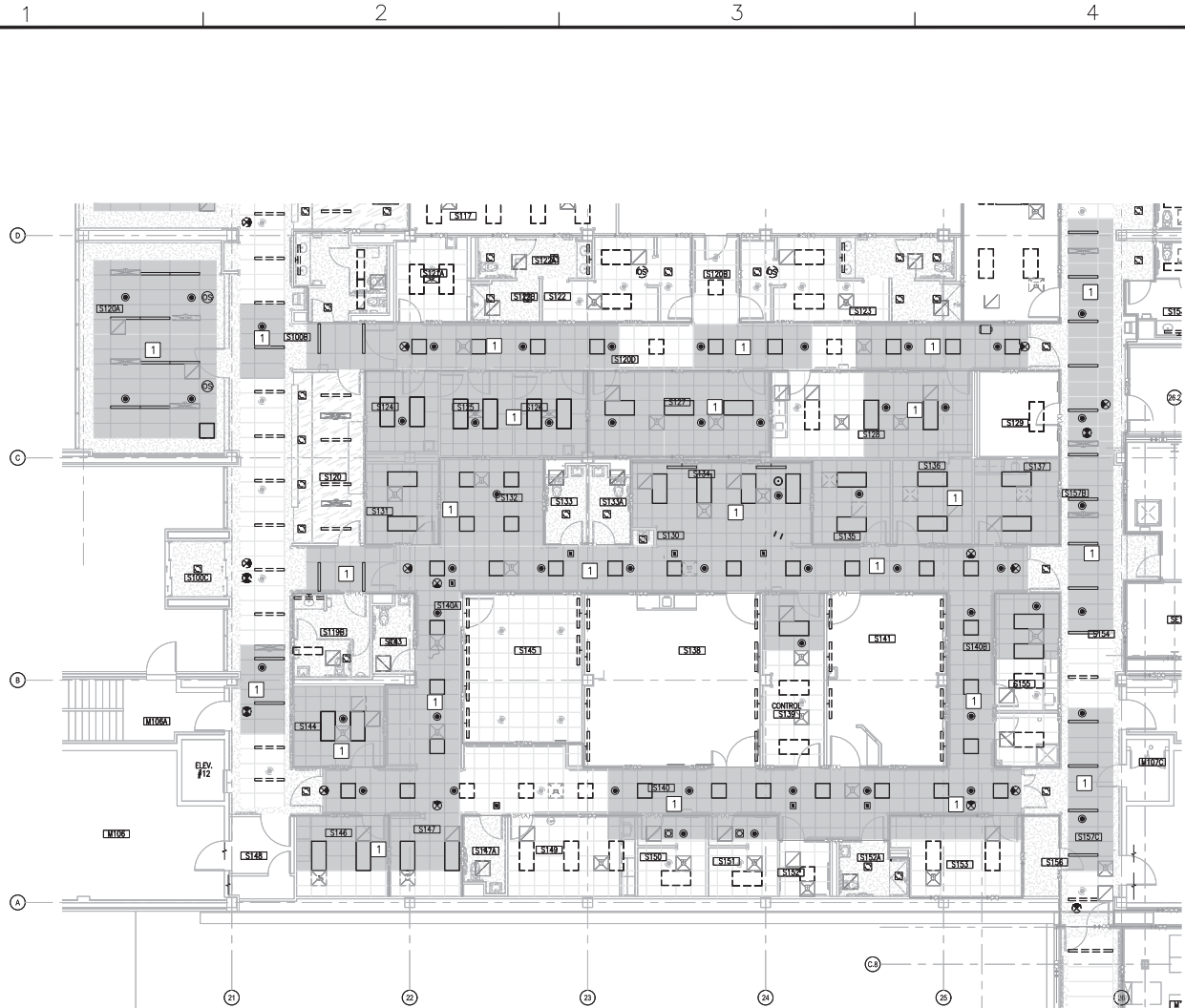
LT David Hartley via Email  
Reference to: 043801  
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PLAN DWG/KEY  
BRANCH WNAOR CAD/CADD  
CHECK ENG/WHI EJA  
FILE PROVISION HPV

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

SCALE: AS NOTED  
CONSTR. CONTROL NO.  
NAVFAC DRAWING NO. 12790440  
SHEET 41 OF 136  
DRAWING REVISION: 31 JANUARY 2017  
MC101-C1

PARTIAL PLAN - LEVEL 1 - AREA C2

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



KEYED NOTES

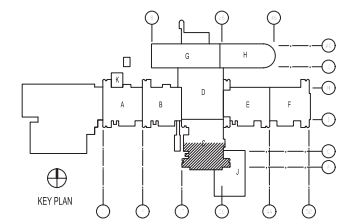
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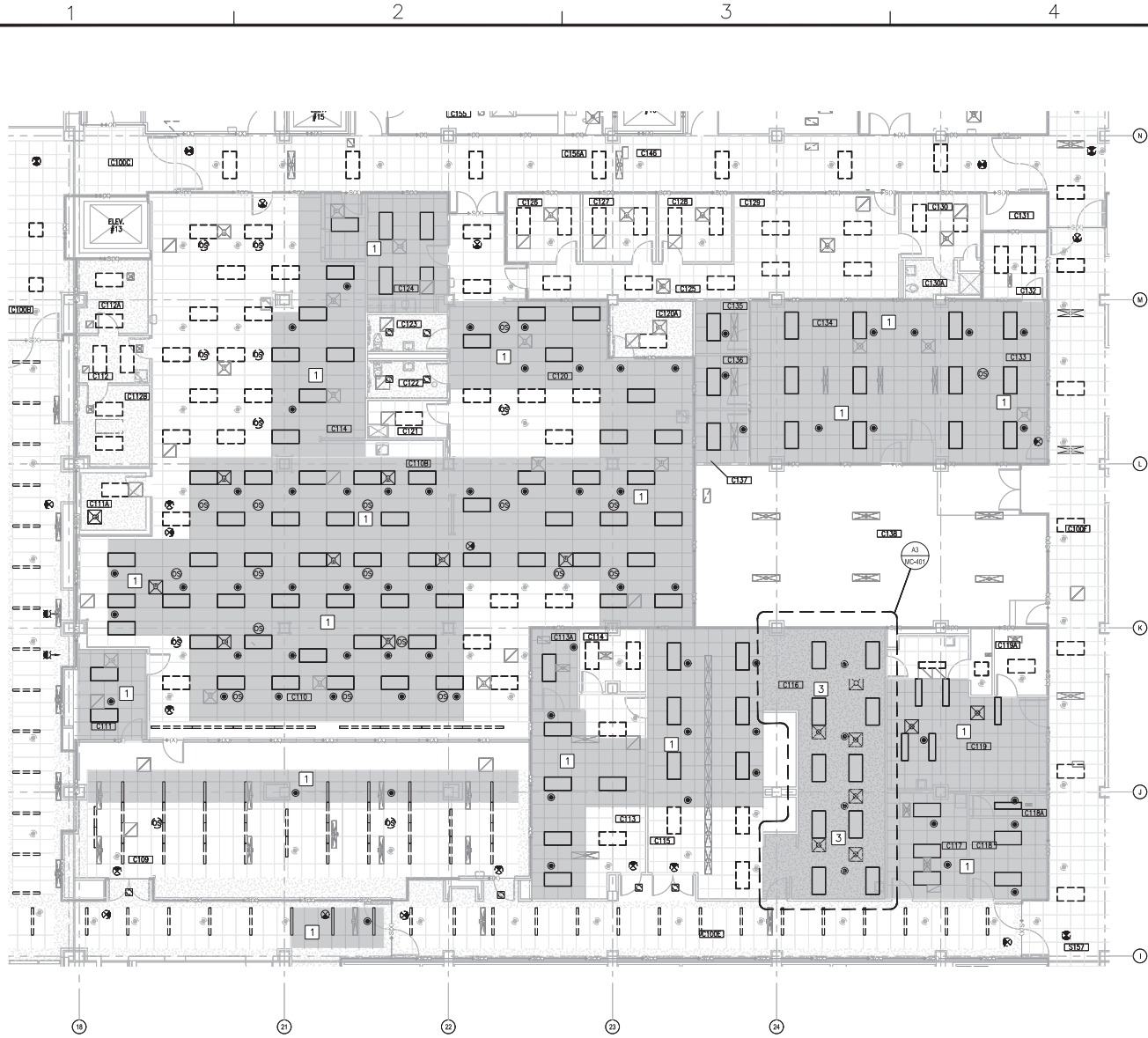
KEY PLAN



GRAPHIC SCALE



				DATE 03.23.19	APP'D.														
				ISSUED FOR CONSTRUCTION															
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05/23/19 SEAL																			
<b>CBHF</b> <i>Engineers, PLLC</i>																			
2348 Vealegon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5290 www.cbhfengineers.com																			
<small>REGISTERED PROFESSIONAL ENGINEER STATE OF NORTH CAROLINA LICENSE NO. 67367</small>																			
<small>FOR COMMON MISC 7/19/2019</small>																			
<table border="0"> <tr> <td>OWNER</td> <td>LT David Hartley via Email</td> </tr> <tr> <td>DESIGNED BY</td> <td>REFERENCE TO: 801-182791</td> </tr> <tr> <td>DATE</td> <td>05/23/19</td> </tr> <tr> <td>SCALE</td> <td>1/8" = 1'-0"</td> </tr> <tr> <td>PROJECT NO.</td> <td></td> </tr> <tr> <td>DRWG NO.</td> <td></td> </tr> <tr> <td>SHEET NO.</td> <td></td> </tr> </table>						OWNER	LT David Hartley via Email	DESIGNED BY	REFERENCE TO: 801-182791	DATE	05/23/19	SCALE	1/8" = 1'-0"	PROJECT NO.		DRWG NO.		SHEET NO.	
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<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION, WORTHEN, VIRGINIA</small>																			
<small>U.S. MARINE CORPS</small> <b>REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL</b> <small>PARTIAL MECHANICAL CEILING PLAN - LEVEL 1 - AREA C2</small>																			
<table border="0"> <tr> <td>SCALE:</td> <td>AS NOTED</td> </tr> <tr> <td>CONDIC. CONTR. NO.:</td> <td></td> </tr> <tr> <td>NAVFAC DRAWING NO.:</td> <td>2790441</td> </tr> <tr> <td>SHEET:</td> <td>42 OF 198</td> </tr> </table>						SCALE:	AS NOTED	CONDIC. CONTR. NO.:		NAVFAC DRAWING NO.:	2790441	SHEET:	42 OF 198						
SCALE:	AS NOTED																		
CONDIC. CONTR. NO.:																			
NAVFAC DRAWING NO.:	2790441																		
SHEET:	42 OF 198																		
<b>MC101-C2</b>																			
<small>DRAWING REVISION: 31 JANUARY 2017</small>																			



PARTIAL PLAN - LEVEL 1 - AREA D2  
 SCALE: 1/8"=1'-0"



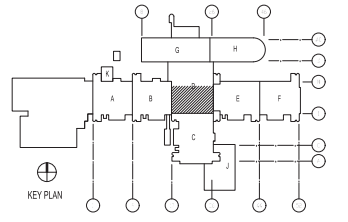
KEYED NOTES

- 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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- \* NOTES ABOVE NOT INDICATED ON ALL PLANS.

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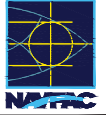
KEY PLAN



GRAPHIC SCALE



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
BY	



**CBHF**  
 Engineers, PLLC  
 2248 Yalagton Drive  
 Wilmington, NC 28401  
 Phone: 910.791.4000  
 Fax: 910.791.5256  
 www.cbhfhq.com

LT David Hartley via Email  
 Reference to: 12790442

FOR COMMENT MARK 7/19/2019

NAVAL FACILITIES ENGINEERING COMMAND  
 NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
 NAVAL STATION, NORFOLK, VIRGINIA

CAMP LEJEUNE, N.C.

U.S. MARINE CORPS

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

PARTIAL MECHANICAL CEILING PLAN  
 - LEVEL 1 - AREA D2

SCALE: AS NOTED

PROJECT NO.: 12790442

CONDIC. CONTROL NO.:

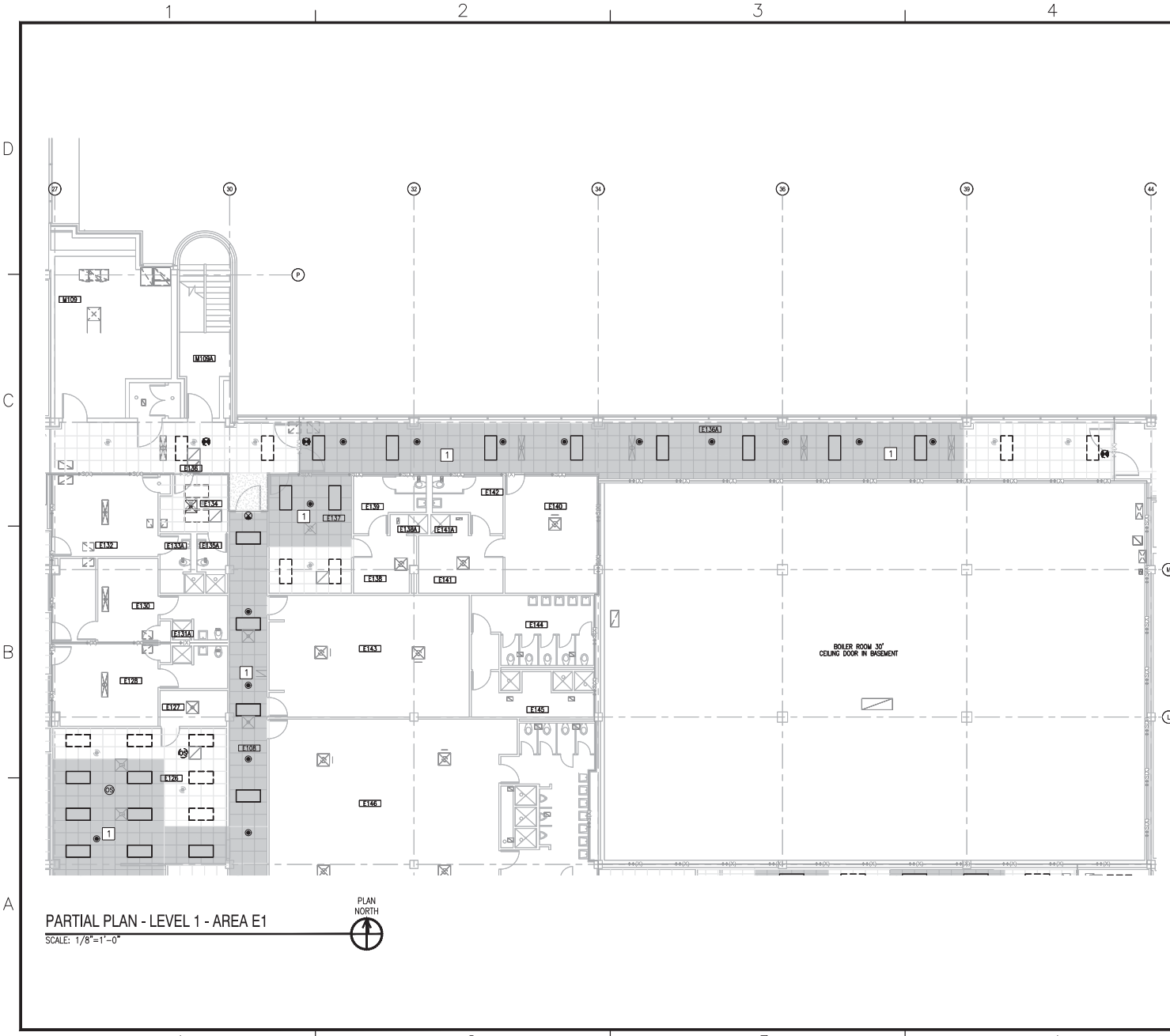
NAVFAC DRAWING NO. 12790442

SHEET 43 OF 156

MC101-D2

DATE/REVISED: 31 JANUARY 2017





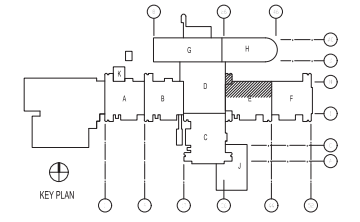
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**KEY PLAN**



**GRAPHIC SCALE**



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
BY	
APP	

05/23/19

**CBHF**  
Engineers, PLLC

2248 Yallop Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6296  
www.cbhfengineers.com

FOR COMMON MISC 7/19/2019

LT David Hartley via Email  
Reference to: 1670299

DES: TOC LOW W/D LOW TOC  
P/W: DWB/KDB  
CHECKED BY: CAZ  
DATE: 05/23/19  
SCALE: AS NOTED

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, WASHINGTON, VIRGINIA

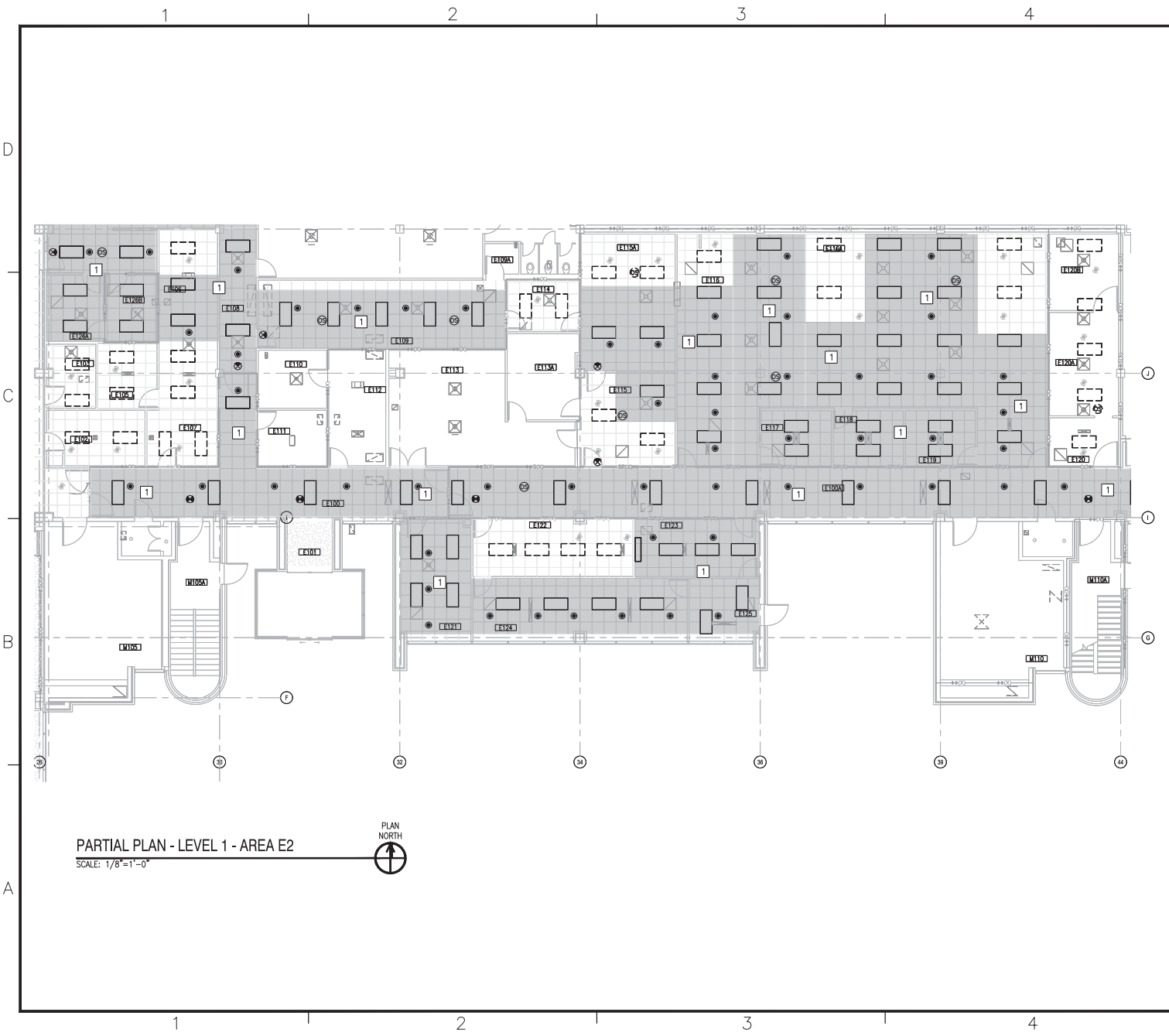
U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.

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

PARTIAL MECHANICAL CEILING PLAN  
LEVEL 1 - AREA E1

PROJECT NO.: 12790443  
SHEET 44 OF 136  
DRAWING REVISION: 31 JANUARY 2017

**MC101-E1**



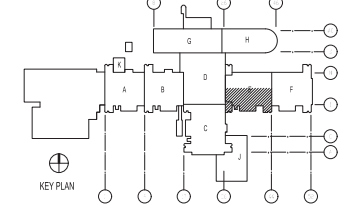
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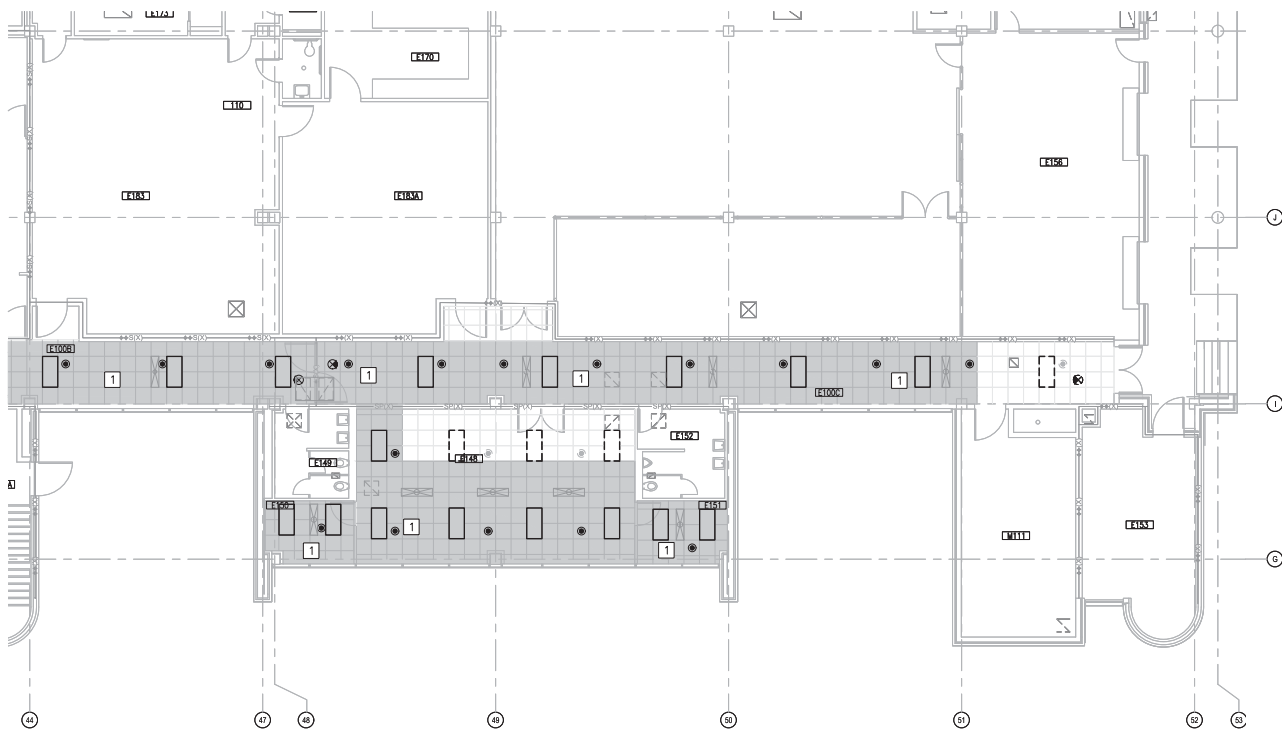
**KEY PLAN**



**GRAPHIC SCALE**



<p><b>CBHF</b> Engineers, PLLC</p> <p>2248 Yallopson Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6286 www.cbhfengineers.com</p>	
<p>FOR COMMON MARK 7/19/2019</p>	
<p>LT David Hartley via Email Reference to: 1620289</p>	
<p>REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL PARTIAL MECHANICAL CEILING PLAN - LEVEL - E2</p>	
<p>SCALE: AS NOTED CONSTR. CONTROL NO. NAVFAC DRAWING NO. 12790444 SHEET 45 OF 136 MC101-E2 DRAWING REVISION: 31 JANUARY 2017</p>	



PARTIAL PLAN - LEVEL 1 - AREA F2  
SCALE: 1/8"=1'-0"



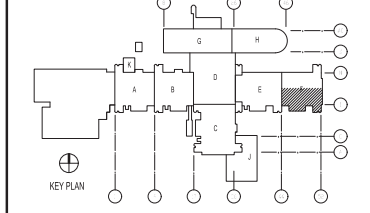
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**KEY PLAN**



**GRAPHIC SCALE**



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
REV	

05/23/19

**CBHF**  
Engineers, PLLC

22048 Yallopson Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6386  
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FOR COMMON MARK 7/19/2019

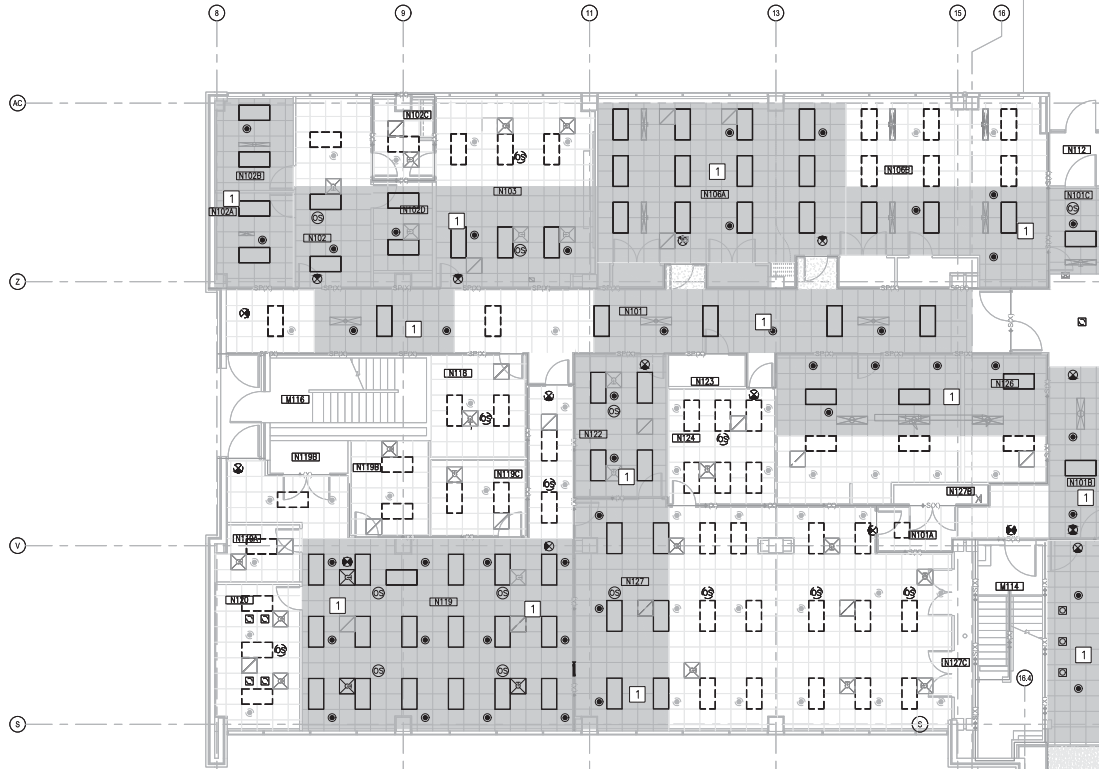
LT David Hartley via Email  
REFERENCE TO: 162/0299

DES: TOC LOW W/D LOW TOC  
P/W: DWS/KDB  
ARCH: WWAOR  
CITY: ENJ/WCH  
EJA  
REV: PROVISION  
HPV

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, WASHINGTON, VIRGINIA

U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL -

SCALE: AS NOTED  
CONSTR. CONTROL NO.  
NAVFAC DRAWING NO. 12790445  
SHEET 45 OF 136  
MC101-F2  
DRAWING REVISION: 31 JANUARY 2017



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



KEYED NOTES

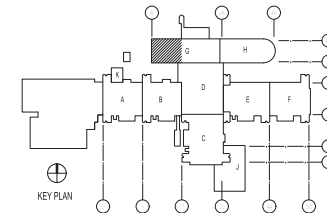
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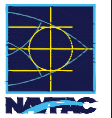
KEY PLAN



GRAPHIC SCALE



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	



**CBHF**  
Engineers, PLLC  
2248 Vidourek Drive  
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FOR COMMON MISC 7/19/2019

BY: LT David Hartley via Email  
DATE: 05/23/2019  
SCALE: 1/8"=1'-0"

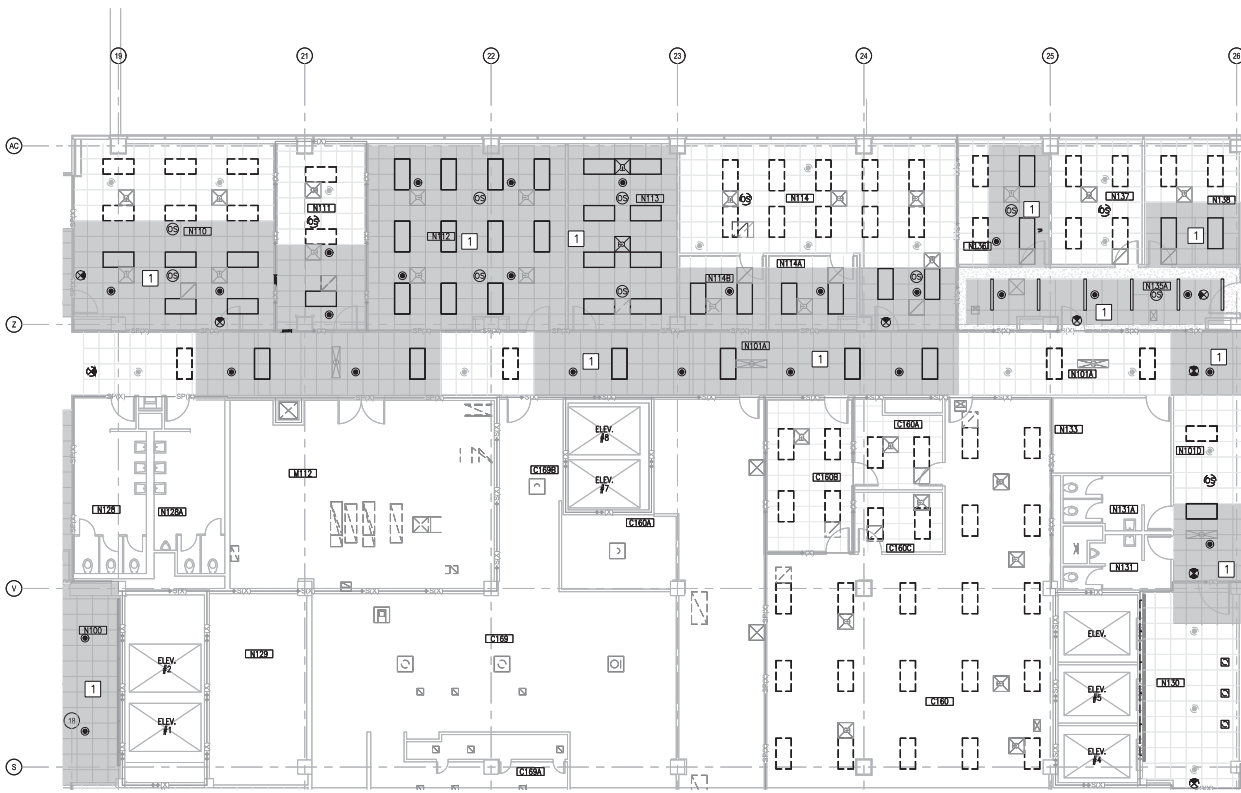
DESIGNER: D. CAMPBELL  
CHECKED: [Signature]  
DATE: 05/23/2019

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, WORTON, VIRGINIA  
U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL CEILING PLAN - LEVEL G1

SCALE: AS NOTED  
PROJECT NO.:  
CONSTR. CONTROL NO.:  
NAVFAC DRAWING NO.: 12790446  
SHEET 47 OF 136  
MC101-G1  
DRAWING REVISION: 31 JANUARY 2017

1 2 3 4 5

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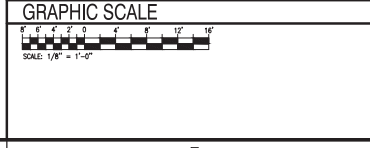
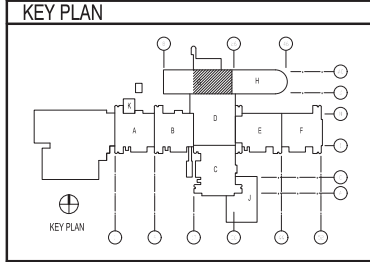


PARTIAL PLAN - LEVEL 1 - AREA G2  
SCALE: 1/8"=1'-0"



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DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
<b>CBHF</b> Engineers, PLLC 2248 Teleport Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6266 www.cbhfhq.com	
FOR COMMON MARK 7/19/2019	
LT David Hartley via Email REFERENCE TO: 043801	
DATE: 05/23/19 TIME: 10:00 AM DRAWN: DWS/KDB CHECKED: JEA FILE NUMBER: 12790447	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION, WASHINGTON, VIRGINIA CAMP LEJEUNE, N.C. U.S. MARINE CORPS <b>REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL</b> PARTIAL MECHANICAL CEILING PLAN LEVEL 1 - AREA G2	
SCALE:	AS NOTED
CONSTR. CONTROL NO.:	
NAVFAC DRAWING NO.:	12790447
SHEET:	45 OF 136
<b>MC101-G2</b>	
<small>DRAWING REVISION: 31 JANUARY 2017</small>	

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



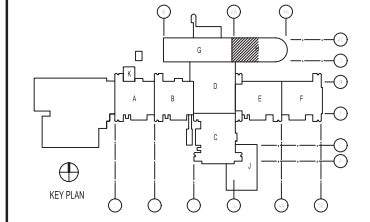
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**KEY PLAN**



**GRAPHIC SCALE**



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
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DESCRIPTION	

05/23/19

**CBHF**  
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22048 Vantage Drive  
Wilmington, NC 28401  
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www.cbhfengineers.com

FOR COMMON MARK 7/19/2019

KEY:

LT David Hartley via Email  
Reference to: 12790448

DES: TOG LHM WTB LHM TOG  
P/W: DWS/KDB  
CHECK DRAWING: CAD  
DATE ENG/WH: EJA  
FILE NUMBER: HPV

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, WASHINGTON, VIRGINIA

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

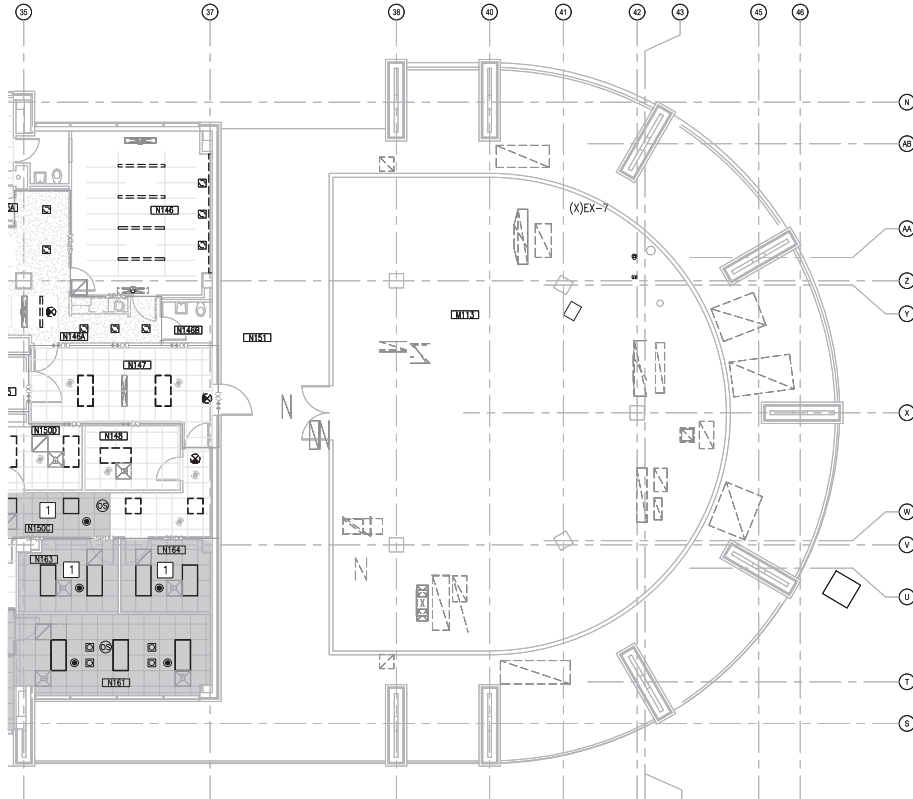
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL - AREA H1

SCALE: AS NOTED  
CONSTR. CONTROL NO.  
NAVFAC DRAWING NO. 12790448  
SHEET 45 OF 136  
MC101-H1  
DRAWING REVISION: 31 JANUARY 2017

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PARTIAL PLAN - LEVEL 1 - AREA H2  
SCALE: 1/8" = 1'-0"



**KEYED NOTES**

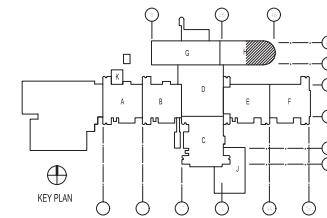
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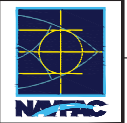
**KEY PLAN**



**GRAPHIC SCALE**



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
BY	



**CBHF**  
Engineers, PLLC  
22048 Yallopson Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6200  
www.cbhflow.com

FOR COMMENT MARK 7/19/2019

LT David Hartley via Email  
DATE: 05/23/19  
BY: [Signature]  
P/W: DWS/KDB  
CHECKED BY: [Signature]

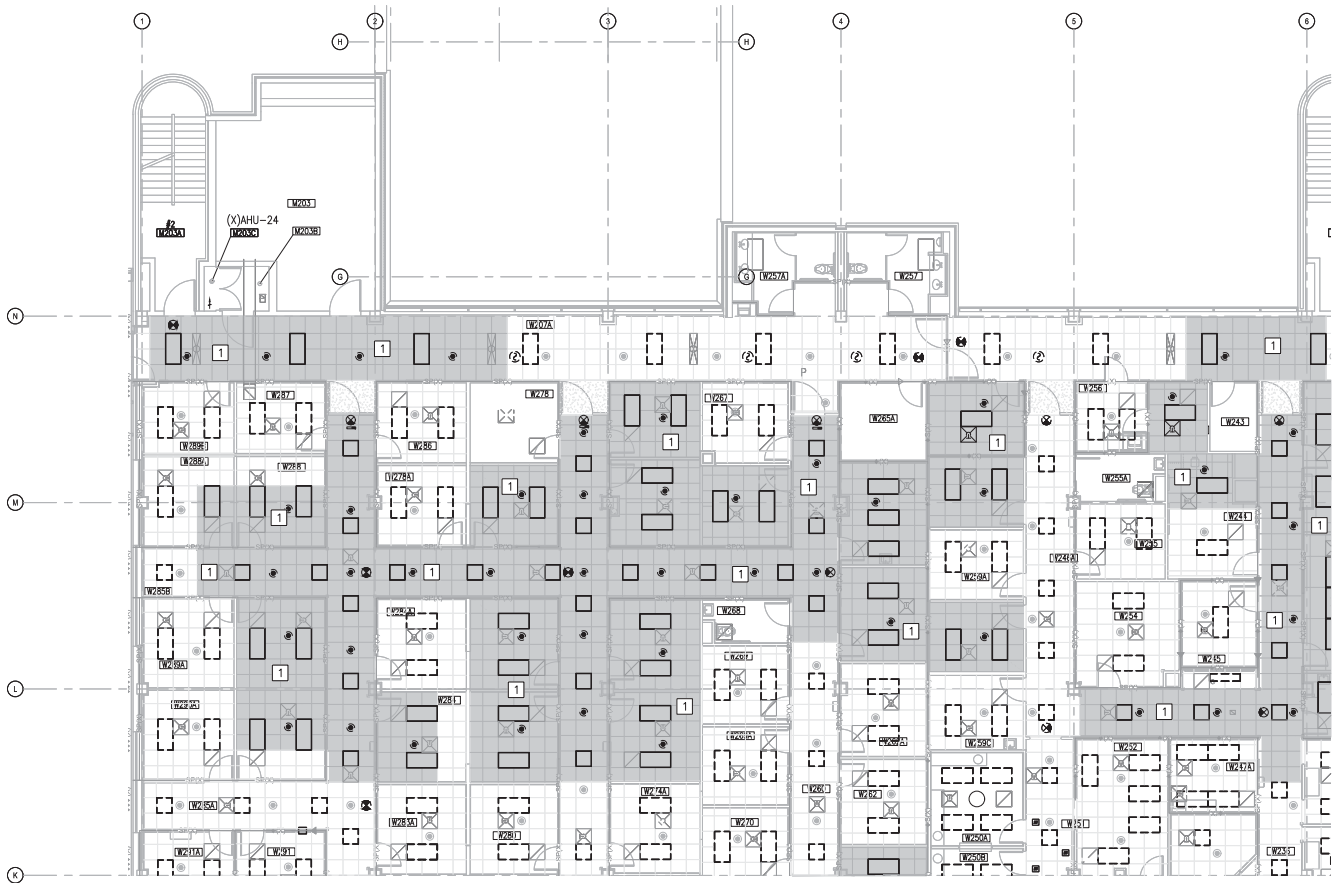
DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, VIRGINIA  
U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.  
**REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL**  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL - H2

SCALE: AS NOTED  
PROJECT NO.:  
CONDIC. CONTROL NO.:  
NAVFAC DRAWING NO.: 2790449  
SHEET 52 OF 158  
**MC101-H2**  
DRAWING REVISION: 21 JANUARY 2017

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PARTIAL PLAN - LEVEL 2 - AREA A1  
SCALE: 1/8"=1'-0"



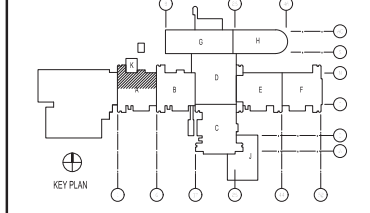
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**KEY PLAN**



**GRAPHIC SCALE**



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
<b>CBHF</b> Engineers, PLLC 2248 Telephone Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6396 www.cbhfind.com	
FOR COMMENT MARK 7/19/2019	
LT David Hartley via Email Reference to: 1670450	
U.S. MARINE CORPS CAMP LEJEUNE, N.C. NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION, FORT MONROE, VIRGINIA REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL PARTIAL MECHANICAL CEILING PLAN - AREA A1	
SCALE:	AS NOTED
PROJECT NO.:	
CONDIC. CONTROL NO.:	
NAVFAC DRAWING NO.:	12790450
SHEET:	51 OF 156
<b>MC102-A1</b> <small>DISOWN RECORD: 31 JANUARY 2017</small>	



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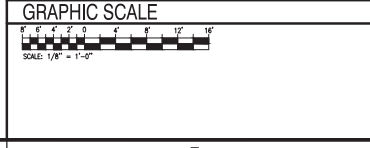
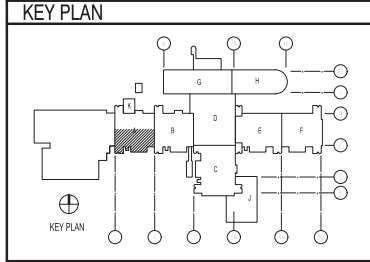


PARTIAL PLAN - LEVEL 2 - AREA A2  
SCALE: 1/8"=1'-0"



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**CBHF**  
Engineers, PLLC  
2948 Villageon Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6266  
www.cbhfengineers.com

FOR COMMON MISC 7/19/2019

REVISIONS:

NO.	DATE	DESCRIPTION
1	05/23/19	ISSUED FOR CONSTRUCTION

U.S. MARINE CORPS  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, VIRGINIA

CAMP LEJEUNE, N.C.  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL CEILING PLAN  
- LEVEL 2 - AREA A2

SCALE: AS NOTED  
PROJECT NO.:  
CONDIC. CONTROL NO.:  
NAVFAC DRAWING NO.: 2790451  
SHEET 53 OF 156  
MC102-A2  
DRAWING REVISION: 31 JANUARY 2017

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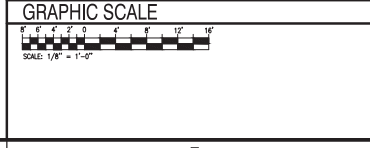
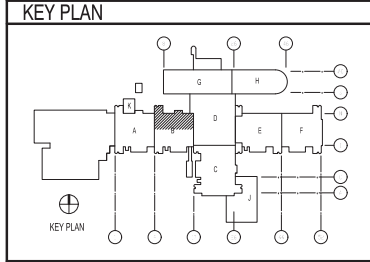


PARTIAL PLAN - LEVEL 2 - AREA B1  
SCALE: 1/8" = 1'-0"



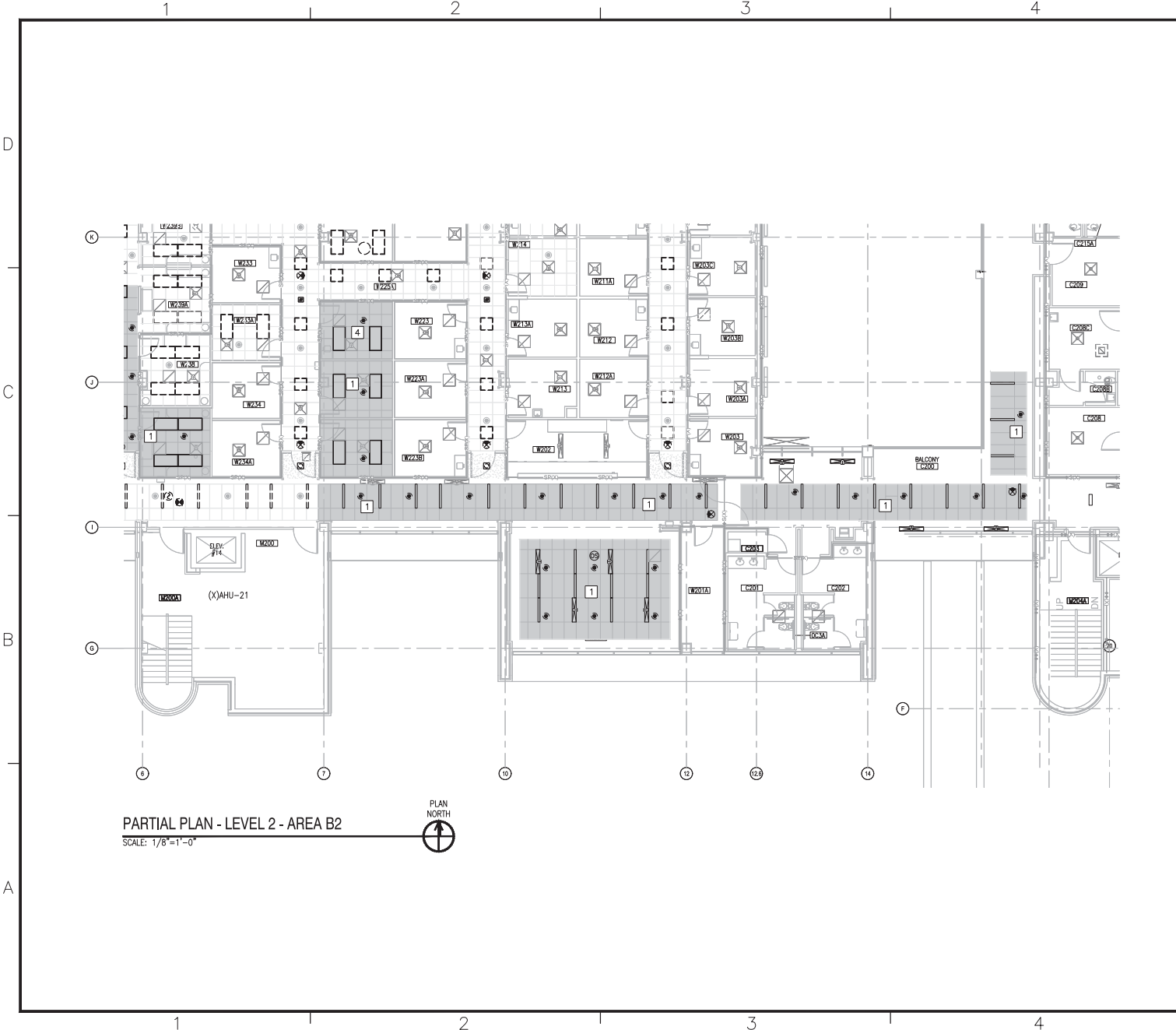
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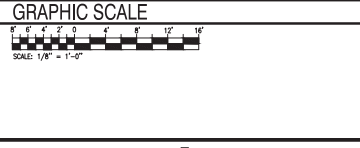
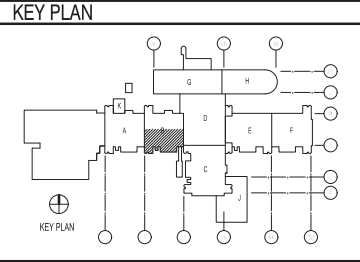
DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
<b>CBHF</b> Engineers, PLLC 2248 Villageon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6266 www.cbhfind.com	
FOR COMMENT MARK 7/19/2019	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION, NORFOLK, VIRGINIA CAMP LEJEUNE, N.C. U.S. MARINE CORPS <b>REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL</b> PARTIAL MECHANICAL CEILING PLAN - AREA B1	
SCALE:	AS NOTED
PROJECT NO.:	
CONDIC. CONTROL NO.:	
NAVFAC DRAWING NO.:	12790452
SHEET:	63 OF 156
<b>MC102-B1</b>	
<small>ORIGINATOR: 21 JANUARY 2017</small>	

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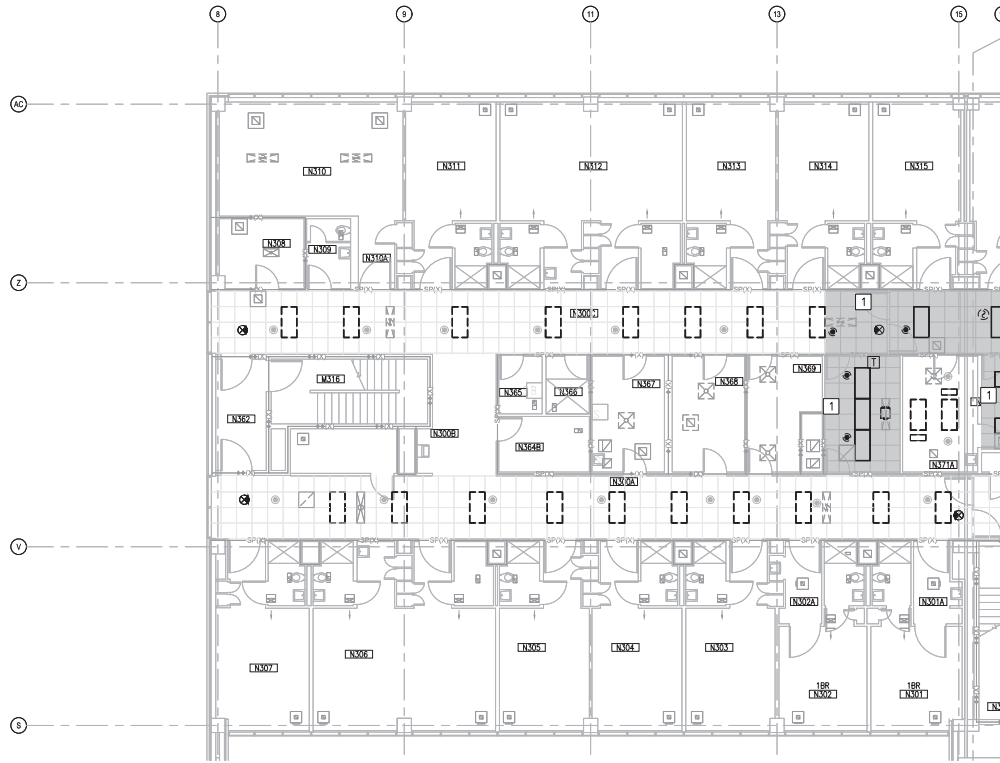


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  6. WORK SHALL BE PHASED SUCH THAT ONLY SMALL PORTIONS (1400 SF MAX) OF THE HOSPITAL ARE AFFECTED AT A TIME. CONTRACTOR SHALL ISOLATE CONSTRUCTION AREAS USING APPROPRIATE HARD OR PLASTIC BARRIERS. BARRIERS MUST CONTINUE ABOVE CEILINGS TO DECK ABOVE. 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.



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
REV	
<b>CBHF</b> <b>Engineers, PLLC</b> 22048 Yalagator Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6300 www.cbhfengineers.com	
FOR COMMENT MARK 7/19/2019	
LT David Hartley via Email Reference to: 1670453	
U.S. MARINE CORPS NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION, WASHINGTON, VIRGINIA CAMP LEJEUNE, N.C. <b>REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL</b> PARTIAL MECHANICAL CEILING PLAN - LEVEL 2 - AREA B2	
SCALE:	AS NOTED
PROJECT NO.:	
CONDIC. CONTROL NO.:	
NAVFAC DRAWING NO.:	12790453
SHEET:	54 OF 158
<b>MC102-B2</b>	
<small>DRAWING REVISION: 31 JANUARY 2017</small>	



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



**KEYED NOTES**

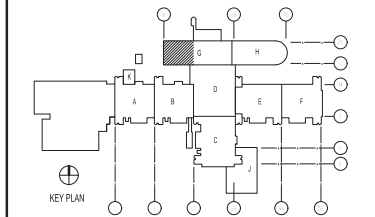
- 1 CONTRACTOR SHALL REMOVE CEILING TILE AND OR GRID AS NEEDED FOR INSTALLATION OF MECHANICAL SYSTEMS. SPRINKLER HEADS ARE TO REMAIN IN PLACE. CEILING SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.
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- 4 CONTRACTOR SHALL REMOVE AND PROTECT CURTAIN TRACK. RE-INSTALL AFTER CEILING IS RESTORED.

\* NOTES ABOVE NOT INDICATED ON ALL PLANS.

**GENERAL NOTES**

- 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.
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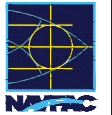
**KEY PLAN**



**GRAPHIC SCALE**



DATE	DESCRIPTION	BY	CHK
05/23/19	ISSUED FOR CONSTRUCTION		



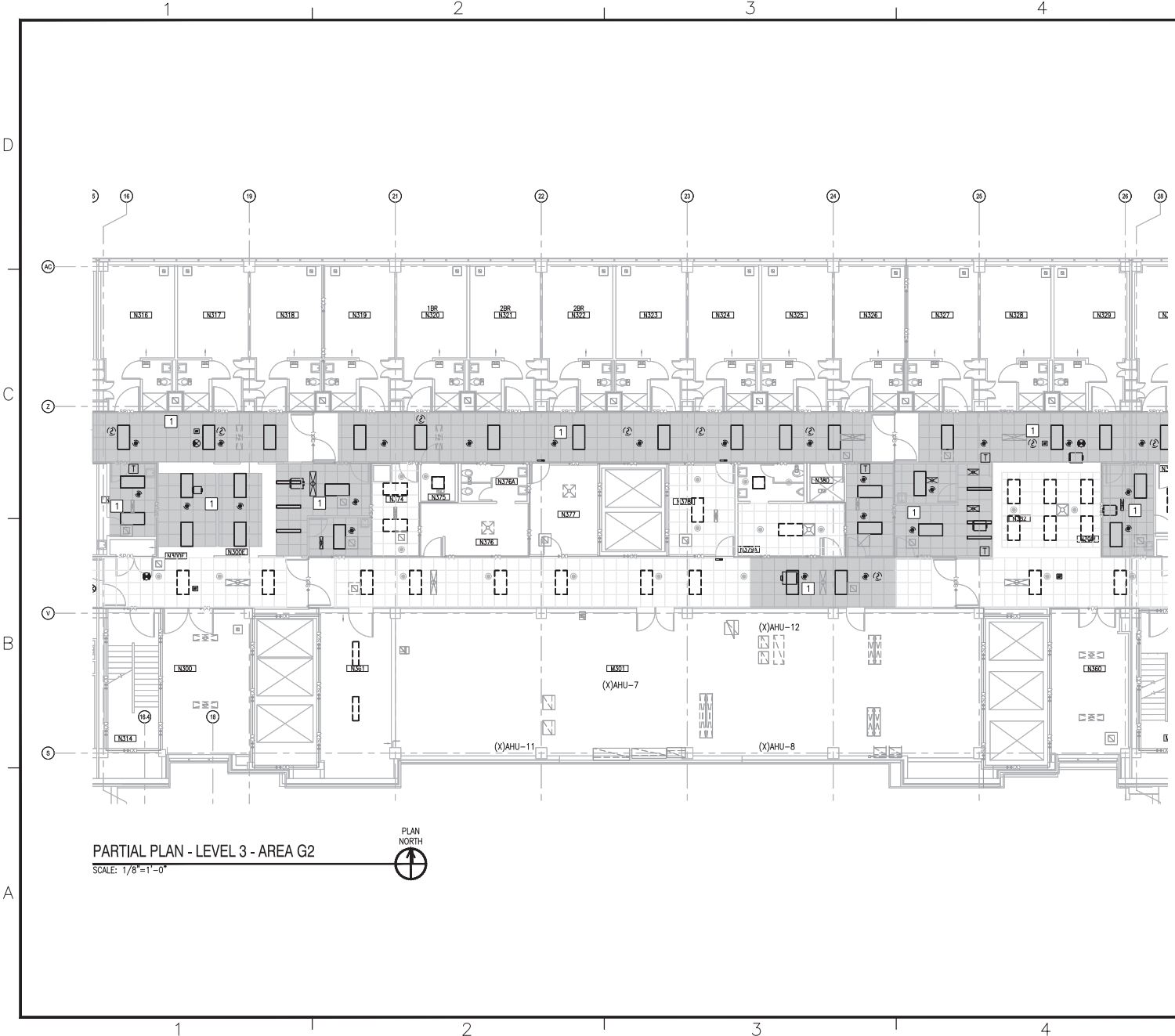
**CBHF**  
Engineers, PLLC  
22048 Yallopson Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6266  
www.cbhfengineers.com

FOR COMMON MARK 7/19/2019

LT David Hartley via Email  
Reference to 048 1620289  
REV 010 010 010 010 010 010  
PLN DWG/DOB  
BRNCH MANOR CADS  
CHRY ENG/WHI EJA  
PAC PRODUCTION HPV

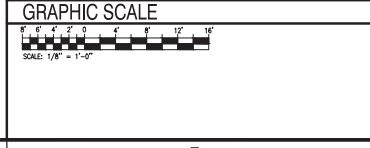
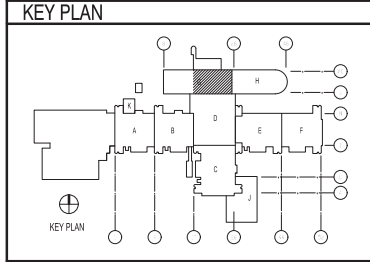
DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, WASHINGTON, VIRGINIA  
U.S. MARINE CORPS  
CAMP LEJEUNE, N.C.  
**REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL**  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL 3 - AREA G1

SCALE: AS NOTED  
CONSTR. CONTROL NO.  
NAVFAC DRAWING NO. 12790454  
SHEET 05 OF 106  
**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.
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REV	

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2248 Yallop Drive  
Wilmington, NC 28401  
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FOR COMMENT MARK 7/19/2019

U.S. MARINE CORPS  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, WORTON, VIRGINIA

CAMP LEJEUNE, N.C.  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL CEILING PLAN  
LEVEL 3 - AREA G2

SCALE: AS NOTED  
PROJECT NO.:  
CONDIC. CONTROL NO.:  
NATAC DRAWING NO.: 2790455  
SHEET 55 OF 158  
MC103-G2  
DRAWING REVISION: 21 JANUARY 2017

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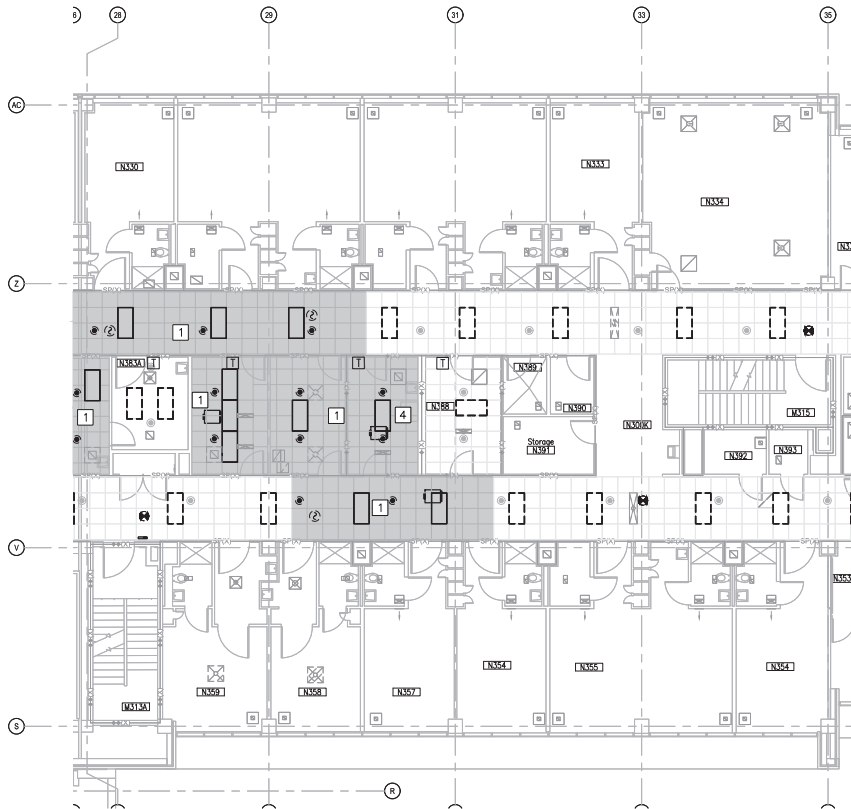
5

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PARTIAL PLAN - LEVEL 3 - AREA H1

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



KEYED NOTES

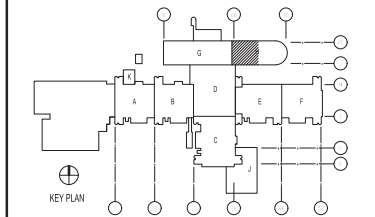
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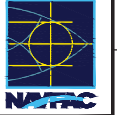
KEY PLAN



GRAPHIC SCALE



REV	DATE	DESCRIPTION
0	05/23/19	ISSUED FOR CONSTRUCTION



**CBHF**  
Engineers, PLLC  
22048 Yallopport Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6396  
www.cbhfhq.com

FOR COMMON MARC 7/19/2019

LT David Hartley via Email  
Reference to: 1670000  
REV: 010 Low 010 Low 100  
PLAN: DWG/KDB  
SHEET NUMBER: 6/20

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, 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 H1

SCALE: AS NOTED  
PROJECT NO.:  
CONSTR. CONTROL NO.:  
NAVFAC DRAWING NO.: 12790456  
SHEET 53 OF 156  
MC103-H1  
DRAWING REVISION: 21 JANUARY 2017

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RENOVATED REFLECTED CEILING PLAN ROOM C116

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

A3

KEYED NOTES

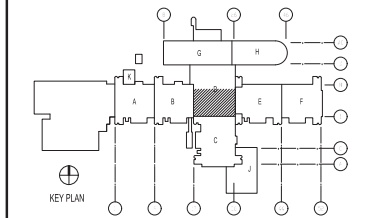
- 1 CONTRACTOR SHALL REMOVE CEILING TILE AND OR GRID AS NEEDED FOR INSTALLATION OF MECHANICAL SYSTEMS. SPRINKLER HEADS ARE TO REMAIN IN PLACE. CEILING SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.
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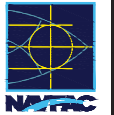
KEY PLAN



GRAPHIC SCALE



DATE	05.23.19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
BY	



**CBHF**  
Engineers, PLLC  
22048 Yallopson Drive  
Wilmington, NC 28401  
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Fax: 910.791.6286  
www.cbhfgwa.com

FOR COMMON MARK 7/19/2019

LT David Hartley via Email  
DATE: 05/23/19

DES: TOC LOW WID LOW TOC  
P/W: DWS/KDB  
ARCH: WWSOR CADS

CHECK: ENL/WHI EJA  
FILE: PROJECT HPV1

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL STATION, WASHINGTON

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

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

ENHANCED MECHANICAL CEILING PLAN  
- LEVEL 1 - AREA D2

SCALE: AS NOTED

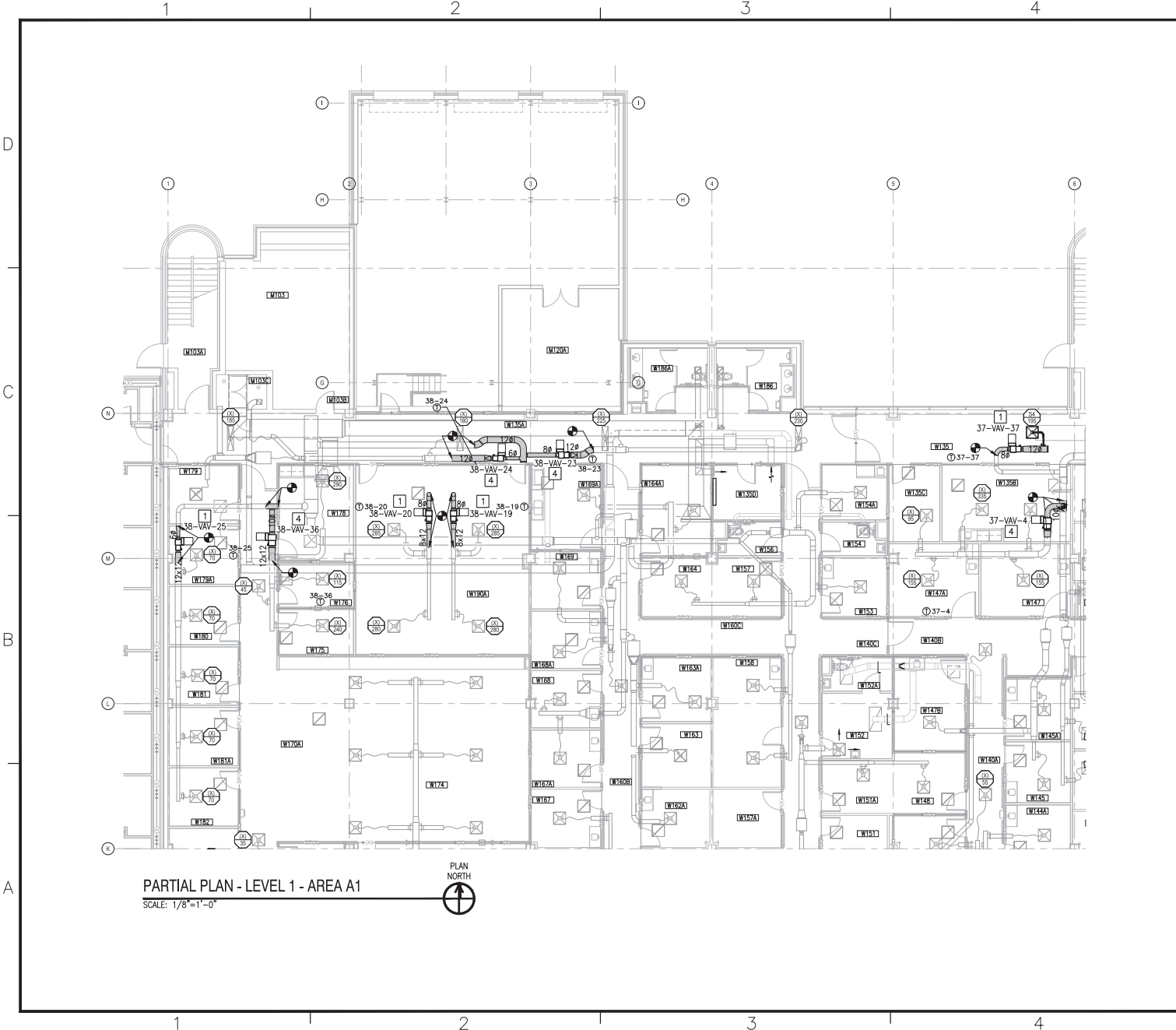
CONSTR. CONTROL NO.

NAVFAC DRAWING NO. 2790457

SHEET 55 OF 156

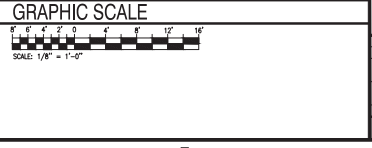
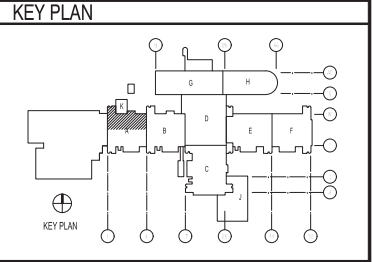
MC-401

DATEFORM REVISION: 21 JANUARY 2017



- ### 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.
  - 2 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. PROVIDE NEW SUPPLY DIFFUSERS WERE NOTED.
  - 3 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 NEW TAKEOFF AT MAIN SUPPLY DUCT. PROVIDE DUCT TRANSITIONS AS NEEDED TO CONNECT TO EXISTING DUCTWORK. PROVIDE NEW SUPPLY DIFFUSERS WERE NOTED.
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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.

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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 TAG PURPOSES.

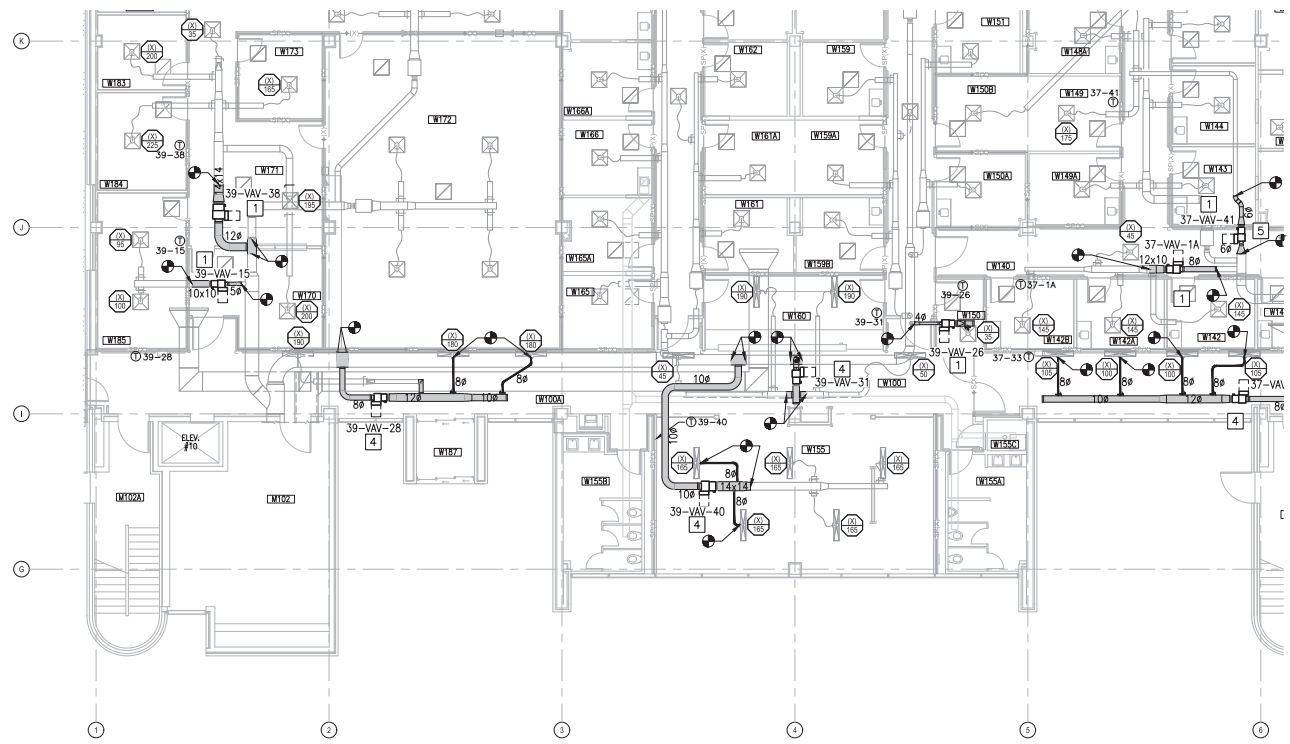


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<p>05/23/19</p>	
<p><b>CBHF</b>          Engineers, PLLC</p> <p>2248 Teleport Drive          Wilmington, NC 28401          Phone: 910.791.4000          Fax: 910.791.6399          www.cbhfind.com</p>	
<p>FOR COMMON MARK 7/19/2019</p>	
<p>LT David Hartley via Email          REFERENCE TO: 1602090</p> <p>REV: 100 LOW W/B LOW 100</p> <p>PLAN: DWG/KDB</p> <p>BRANCH: MARCOR</p> <p>DATE ENG/WHI: 5/14/19</p> <p>FILE NUMBER: HPV</p>	
<p>DEPARTMENT OF THE NAVY          NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC          NAVAL STATION, NORFOLK, VIRGINIA</p> <p>U.S. MARINE CORPS          CAMP LEJEUNE, N.C.</p> <p>REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL          PARTIAL MECHANICAL HVAC PLAN          - LEVEL 1 - AREA A1</p>	
<p>SCALE: AS NOTED          CONDIC. CONTROL NO.</p> <p>NAVFAC DRAWING NO.: 12790458          SHEET 55 OF 156</p> <p>M-101-A1</p> <p>DRAWING REVISION: 31 JANUARY 2017</p>	



1 2 3 4 5

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PARTIAL PLAN - LEVEL 1 - AREA A2  
SCALE: 1/8" = 1'-0"



KEYED NOTES

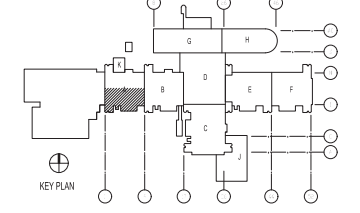
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KEY PLAN



GRAPHIC SCALE

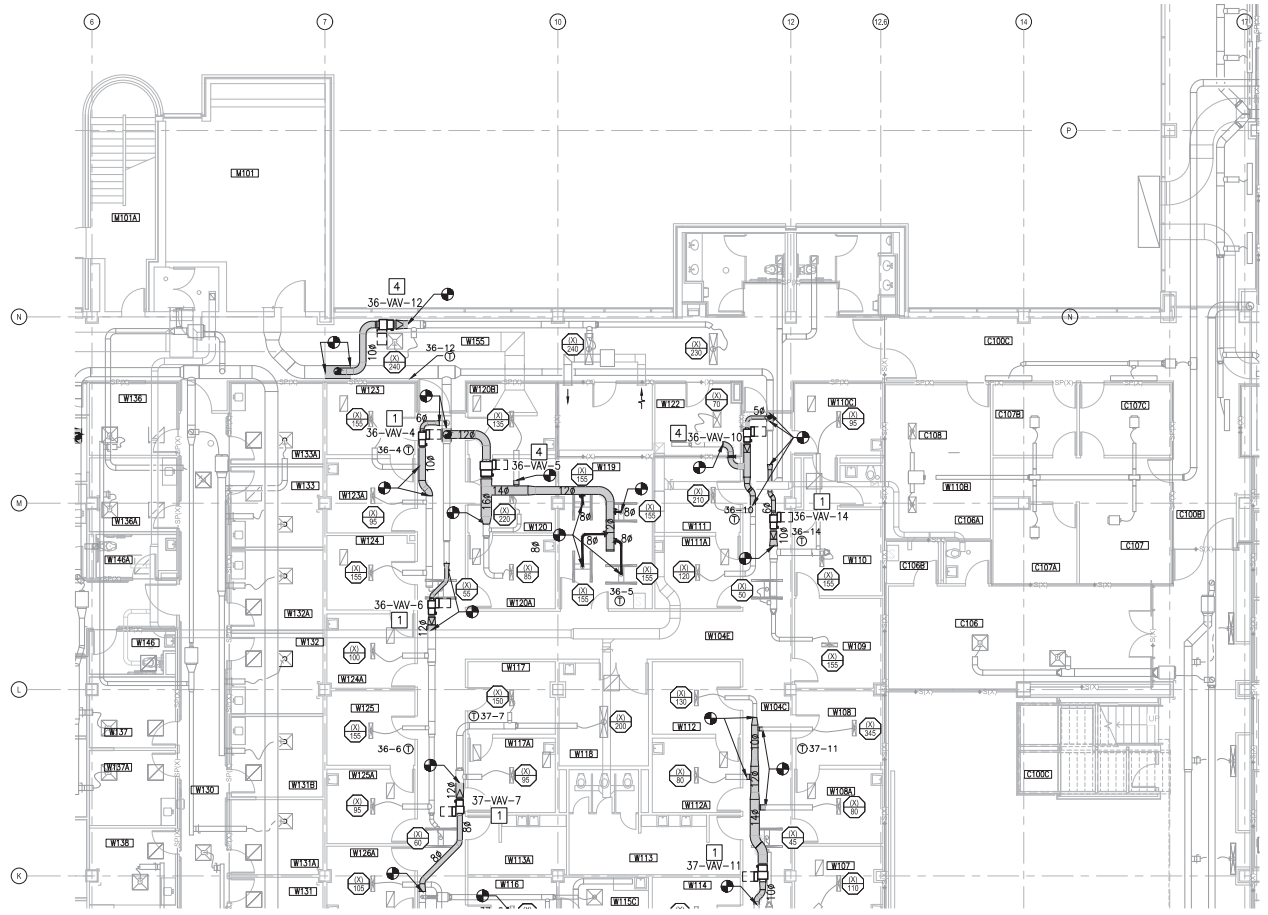


DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	REV
<p>05/23/19</p>	
<p><b>CBHF</b> Engineers, PLLC</p> <p>2248 Yallop Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6399 www.cbhfgroup.com</p>	
<p>FOR COMMON MARK 7/19/2019</p>	
<p>LT David Hartley via Email DATE: 05/15/2019</p>	
<p>SCALE: 1/8" = 1'-0"</p>	
<p>BRANCH MANAGER: CAD</p>	
<p>DATE: 05/15/2019</p>	
<p>PROJECT: NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION, NORFOLK, VIRGINIA</p>	
<p>U.S. MARINE CORPS CAMP LEJEUNE, N.C. REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL PARTIAL MECHANICAL HVAC PLAN - LEVEL 1 - AREA A2</p>	
<p>SCALE: AS NOTED</p>	
<p>PROJECT NO.: 12790459</p>	
<p>CONDIC. CONTROL NO.</p>	
<p>NAVFAC DRAWING NO. 12790459</p>	
<p>SHEET 62 OF 156</p>	
<p>M-101-A2</p>	
<p>DRAWING REVISION: 31 JANUARY 2017</p>	

1 2 3 4 5

1 2 3 4 5

D  
C  
B  
A

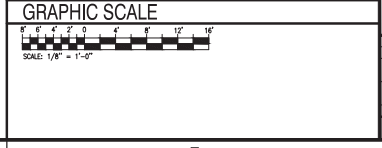
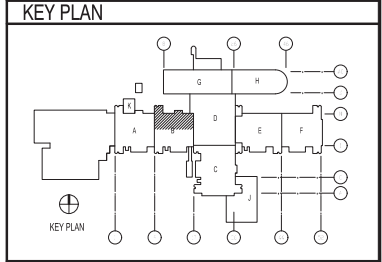


PARTIAL PLAN - LEVEL 1 - AREA B1  
SCALE: 1/8"=1'-0"



- ### 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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  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 TAG PURPOSES.



DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	
DATE	05/23/19
SCALE	AS NOTED
PROJECT NO.	12790460
CONDIC. CONTROL NO.	
NAVFAC DRAWING NO.	12790460
SHEET	61 OF 156
<b>M-101-B1</b>	

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, VIRGINIA  
NAVFAC DRAWING NO. 12790460  
SHEET 61 OF 156  
DRAWING REVISION: 31 JANUARY 2017

U.S. MARINE CORPS  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL HVAC PLAN  
LEVEL - 1 - AREA B1

NAVFAC ENGINEERING COMMAND - MID-ATLANTIC  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6296  
www.nafac.navy.mil

FOR CONSTRUCTION 7/19/2019

LT David Hartley via Email  
REFERENCE TO: 045 (05/2019)

DESIGN: TCC, LHM, WTB, LHM, TCC  
DRAWN: DWS/KDB  
CHECKED: CAD/D  
DATE: 05/23/19  
SCALE: 1/8"=1'-0"

05/23/19

CBHF  
Engineers, PLLC  
2248 Yallop Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6296  
www.cbhfind.com

05/23/19

043801  
SEAL  
MAGNIFICENT  
ENGINEERING

**KEYED NOTES**

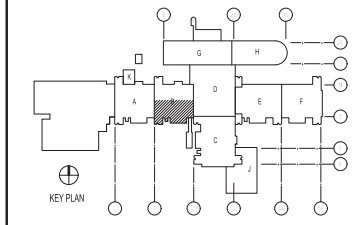
- 1 INSTALL NEW VAV BOX WITH REHEAT COILS IN LOCATION SHOWN MAINTAINING REQUIRED CLEARANCES FOR MAINTENANCE. PROVIDE NEW DUCTWORK UPSTREAM AND DOWNSTREAM FROM BOX TO EXTENT SHOWN. PROVIDE DUCT TRANSITIONS AS NEEDED TO CONNECT TO EXISTING DUCTWORK.
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-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

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

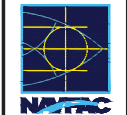
**KEY PLAN**



**GRAPHIC SCALE**



DATE	05.23.19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	



**CBHF**  
Engineers, PLLC  
2248 Yallop Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6266  
www.cbhfind.com

FOR COMMON MARK 7/19/2019

LT David Hartley via Email  
REFERENCE TO: 043801

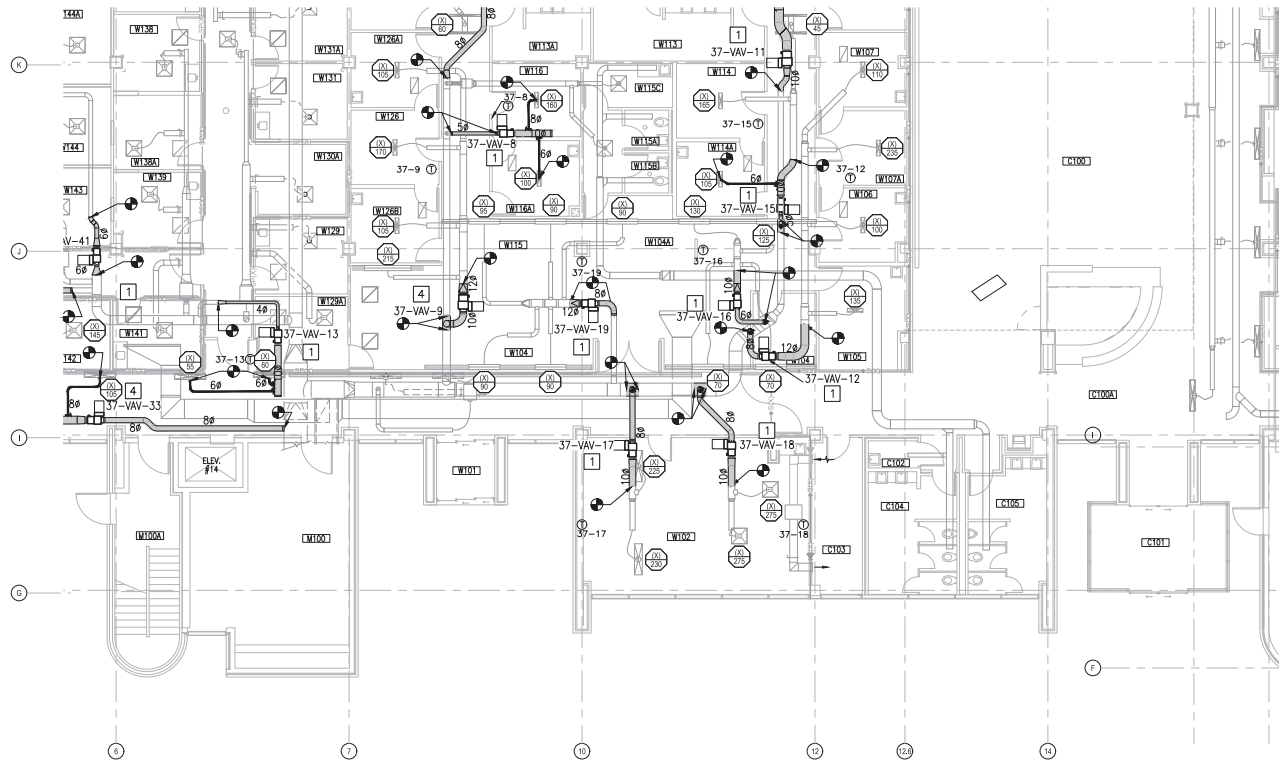
SCALE: 1/8" = 1'-0"

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, 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 B2

SCALE: AS NOTED  
CONTR. CONTROL NO.  
NAVFAC DRAWING NO. 2790461  
SHEET 62 OF 156

**M-101-B2**  
DRAWING REVISION: 31 JANUARY 2017

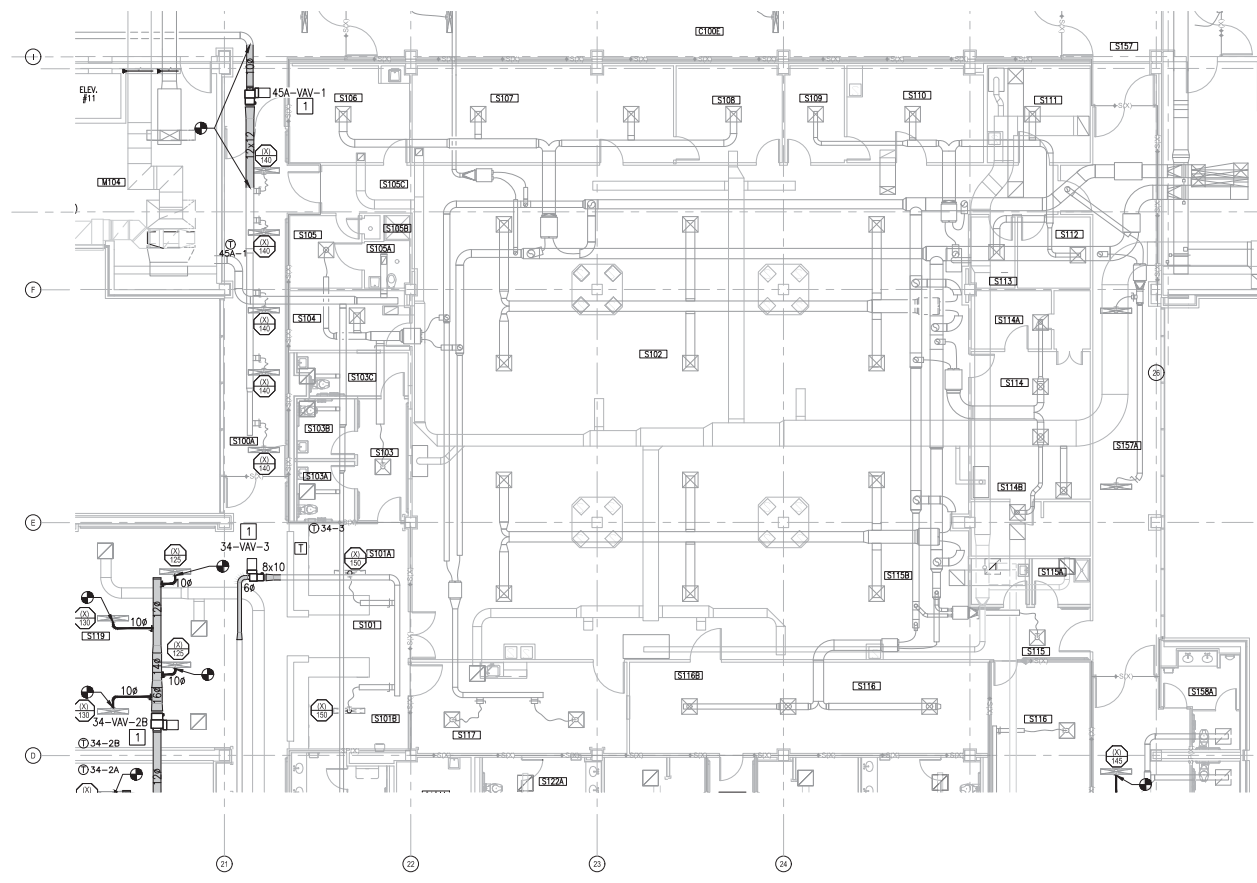


**PARTIAL PLAN - LEVEL 1 - AREA B2**  
SCALE: 1/8" = 1'-0"



1 2 3 4 5

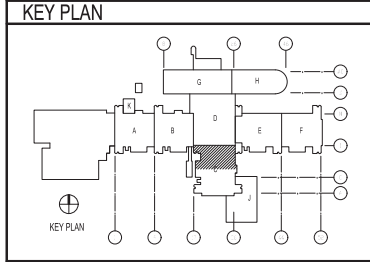
D  
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B  
A



PARTIAL PLAN - LEVEL 1 - AREA C1  
SCALE: 1/8"=1'-0"  
PLAN NORTH

- ### 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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  2. DIFFUSER TAGS ON EXISTING DIFFUSERS TO BE USED FOR TAG PURPOSES.



DATE	05/23/19
DESCRIPTION	ISSUED FOR CONSTRUCTION
REV	0

05/23/19

**CBHF**  
Engineers, PLLC

22048 Vantage Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6295  
www.cbhfhq.com

FOR COMMON MARK 7/19/2019

LT David Hartley via Email  
DATE: 05/15/2019

DES: TCC Low W/B Low TCC

PL/W: DWS/KDB

BRANCH MANAGER: CAD

CHIEF ENGINEER: EJA

PROJECT NO: 1790462

U.S. MARINE CORPS  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, VIRGINIA

CAMP LEJEUNE, N.C.  
REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL  
PARTIAL MECHANICAL HVAC PLAN  
LEVEL - 1 - AREA C1

SCALE: AS NOTED

PROJECT NO: 12790462

CONTR. CONTROL NO.

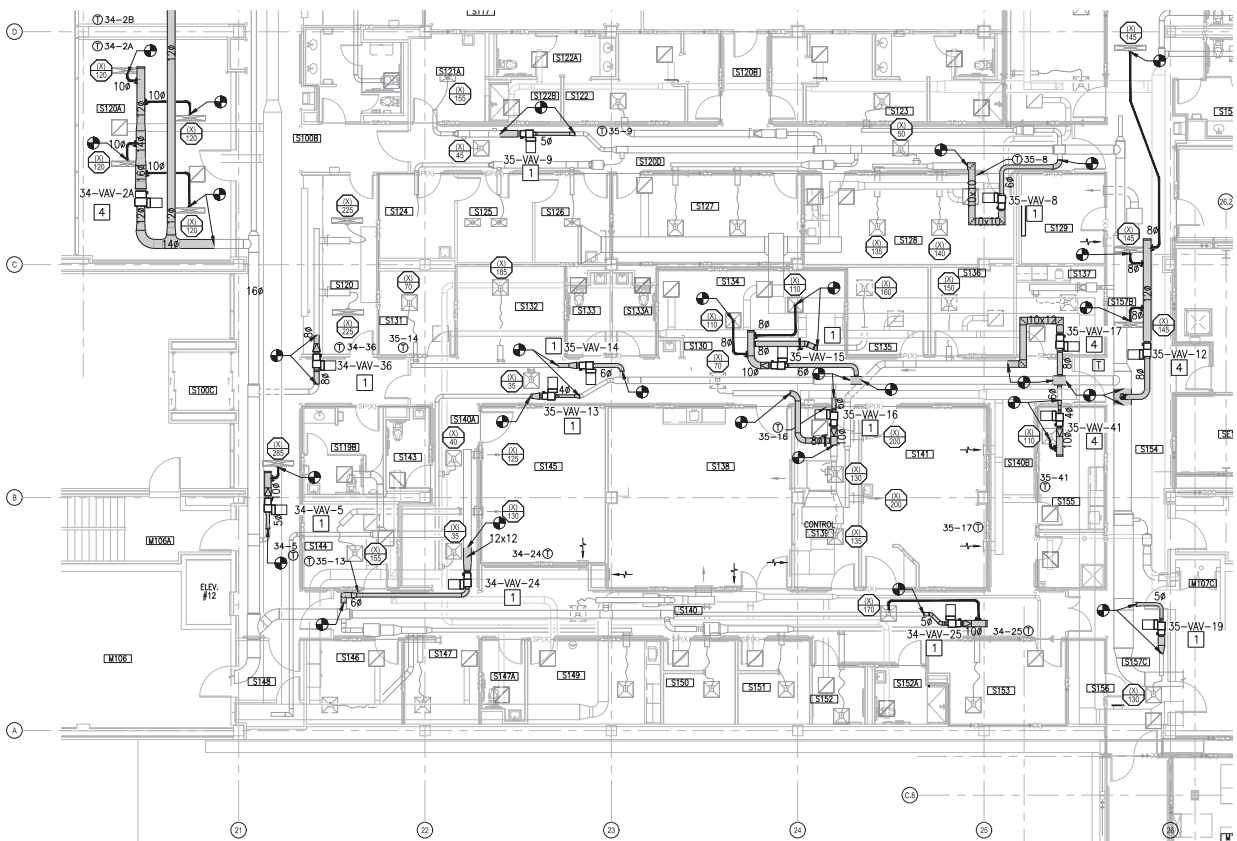
NAVFAC DRAWING NO. 12790462

SHEET 63 OF 156

M-101-C1

DATE PLOTTED: 31 JANUARY 2017

1 2 3 4 5

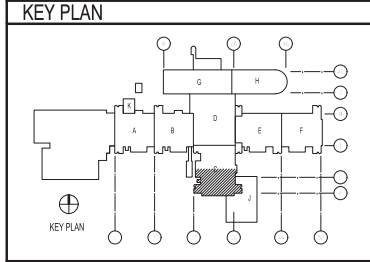


PARTIAL PLAN - LEVEL 1 - AREA C2  
SCALE: 1/8"=1'-0"



- ### 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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DATE	05/23/19
DESCRIPTION	ISSUED FOR CONSTRUCTION
BY	AW

05/23/19

**CBHF**  
Engineers, PLLC

2348 Visitation Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6266  
www.cbhfac.com

FOR COMMON MARK 7/19/2019

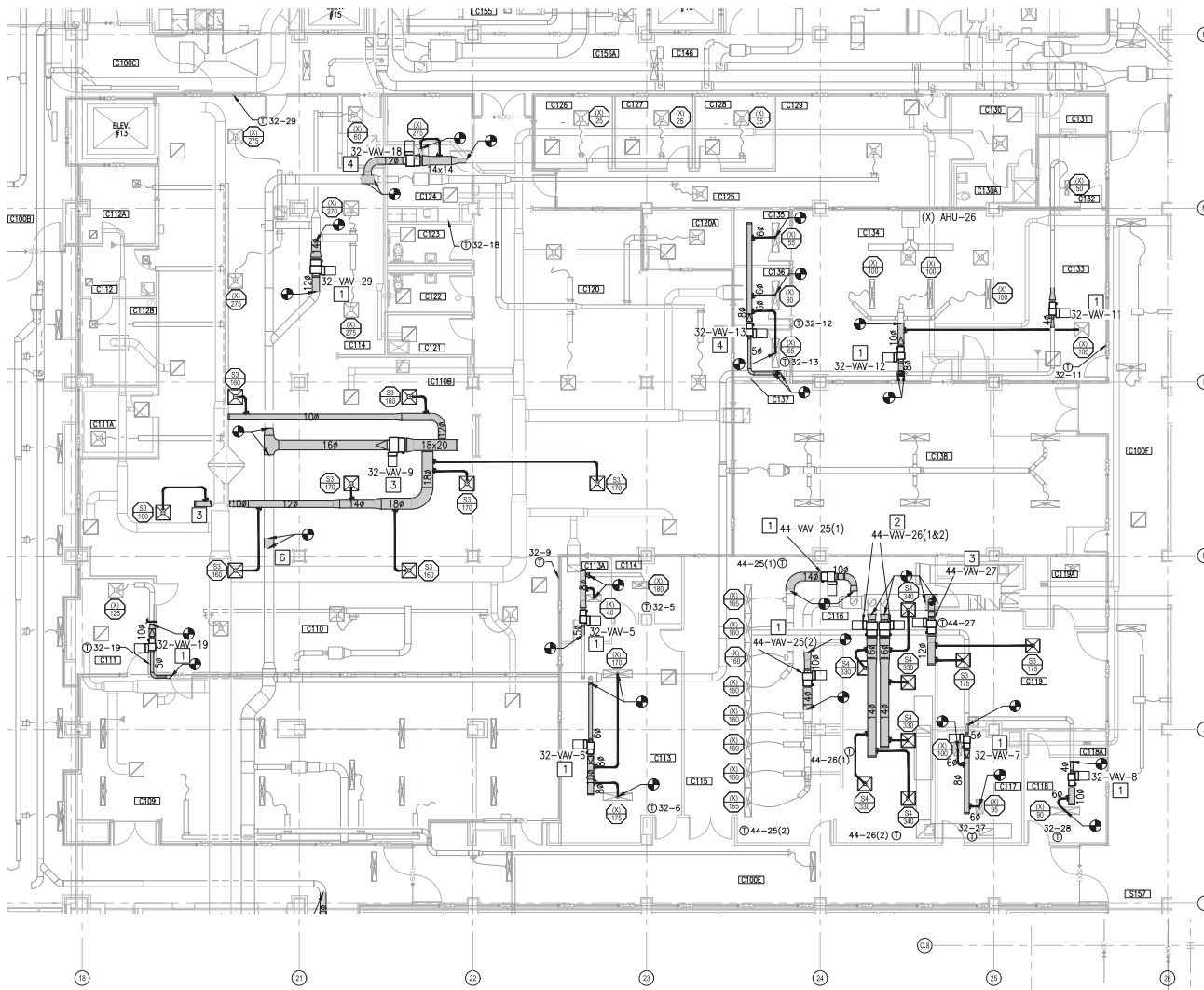
LT David Hartley via Email  
reference to 043801

DESIGN: TCC, LHM, WTB, LHM, TCC  
DRAWING: DWS/KDB  
CHECK: HAN/CH  
DATE: 05/23/19

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, 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 C2

SCALE: AS NOTED  
PROJECT NO.:  
CONTR. CONTROL NO.:  
NAVFAC DRAWING NO.: 12790463  
SHEET: 64 OF 136  
M-101-C2  
DRAWING REVISION: 31 JANUARY 2017

1 2 3 4 5



PARTIAL PLAN - LEVEL 1 - AREA D2  
SCALE: 1/8"=1'-0"



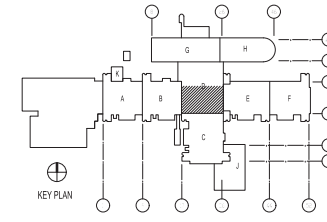
### KEYED NOTES

- 1 INSTALL NEW VAV BOX WITH RE-HEAT 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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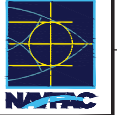
### KEY PLAN



### GRAPHIC SCALE



DATE	DESCRIPTION
05/23/19	ISSUED FOR CONSTRUCTION



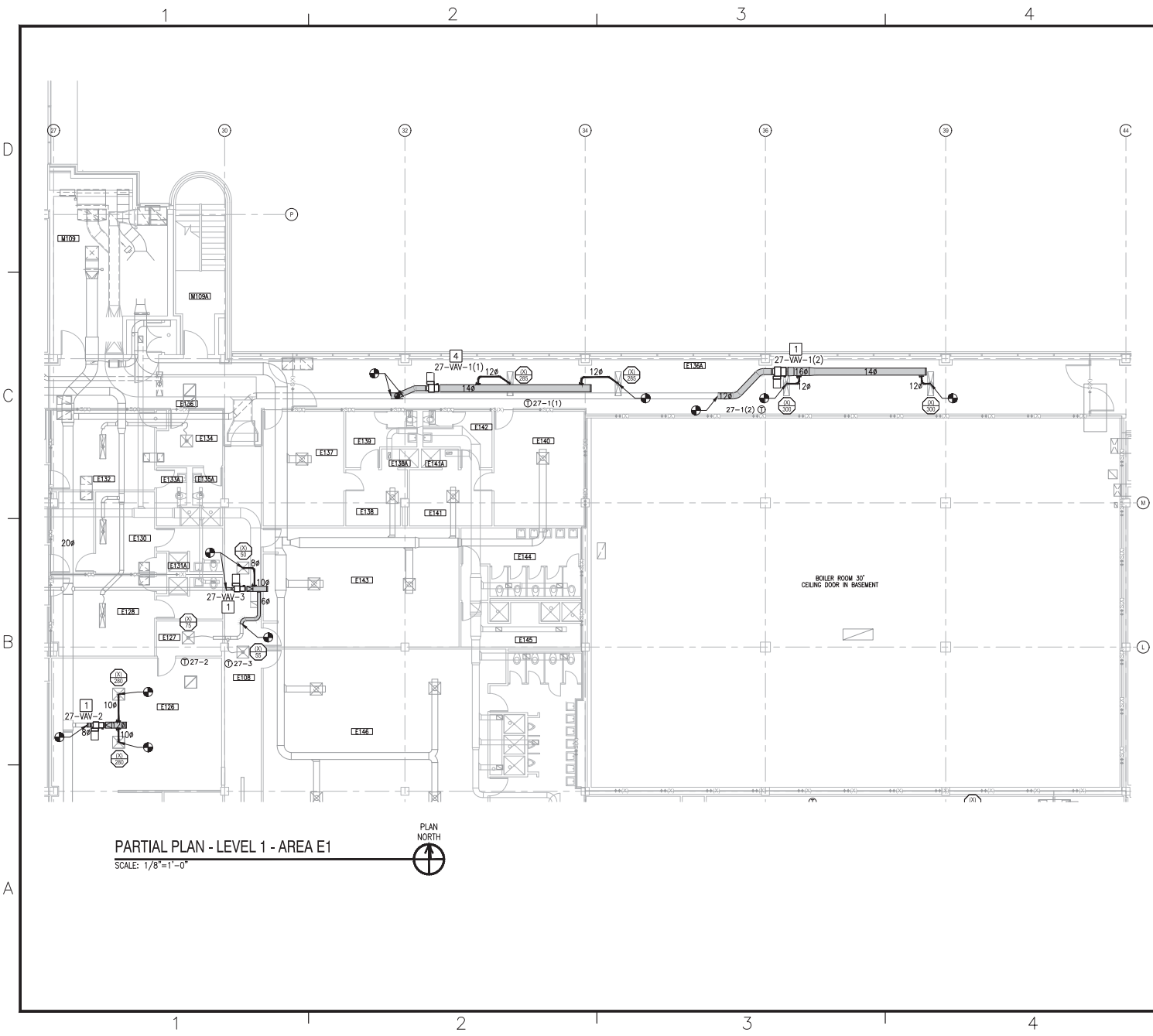
**CBHF**  
Engineers, PLLC  
2248 Yalagton Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6290  
www.cbhflow.com

PROJECT NO. 1790464  
DATE: 05/23/19

FOR COMMON MARK 71912019

LT David Hartley via Email  
Reference to 041 16/20/19  
DES: 100 Low W/D Low 100  
PLAN: DWG/KDB  
BRANCH MANAGER: CAD/DB  
CHECK ENGINEER: EJA  
FILE NUMBER: HPV

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, 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 D2  
SCALE: AS NOTED  
PROJECT NO.: 1790464  
CONTR. CONTROL NO.:  
NAVFAC DRAWING NO.: 12790464  
SHEET 05 OF 198  
M-101-D2  
DRAWING REVISION: 31 JANUARY 2017



PARTIAL PLAN - LEVEL 1 - AREA E1  
SCALE: 1/8"=1'-0"



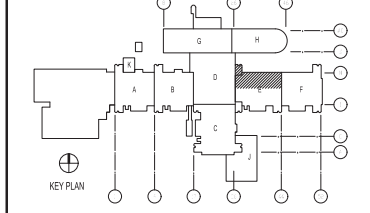
**KEYED NOTES**

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**GENERAL NOTES**

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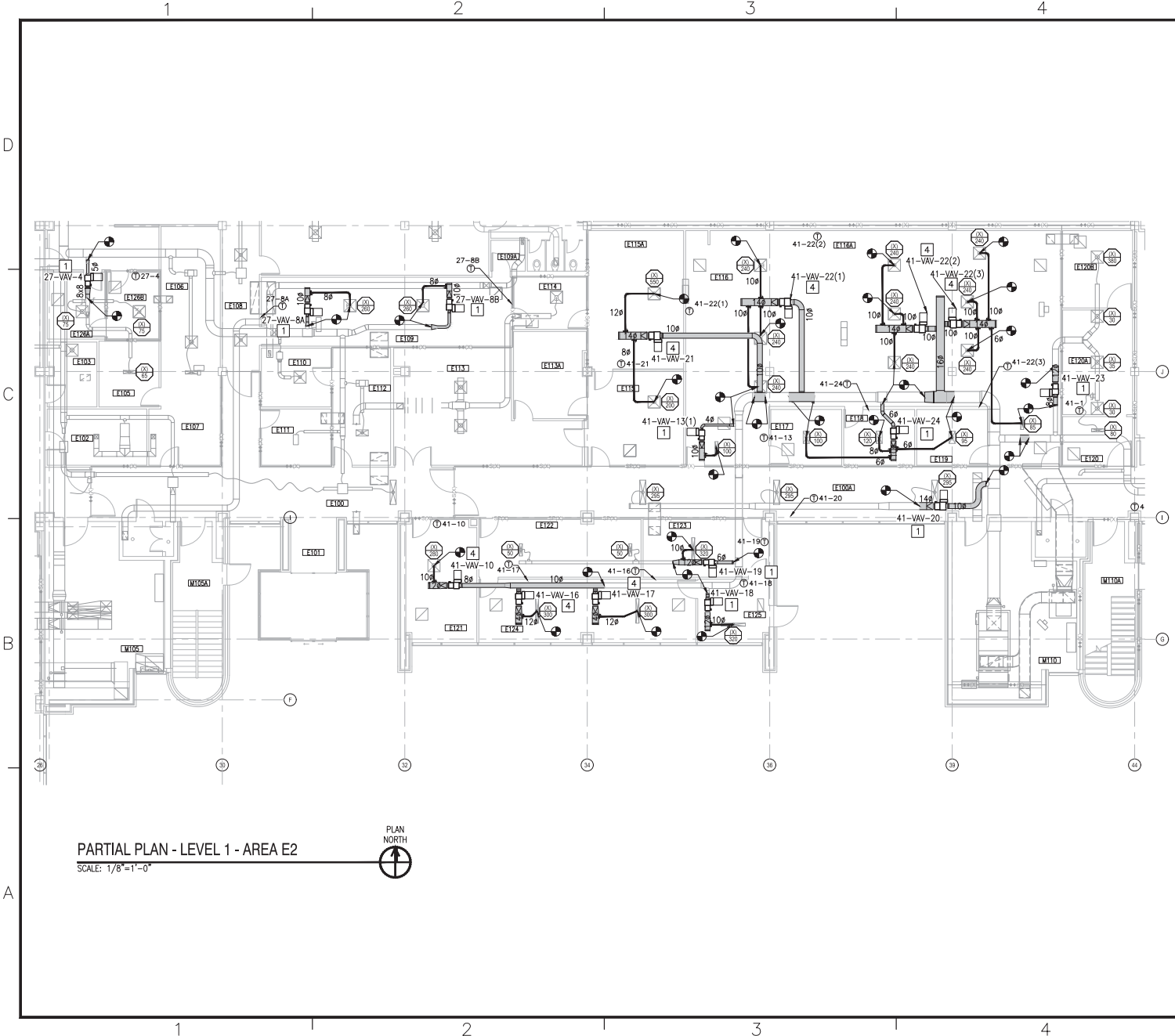
**KEY PLAN**



**GRAPHIC SCALE**

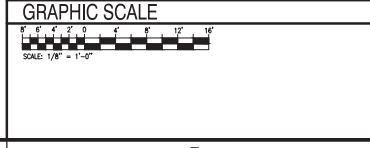
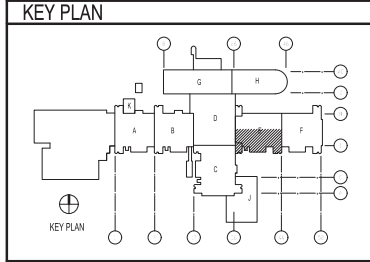


DATE	05/23/19
ISSUED FOR CONSTRUCTION	0
DESCRIPTION	REV
<b>CBHF</b> Engineers, PLLC 2248 Yallopson Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6299 www.cbhfind.com	
APPROVED FOR CONSTRUCTION: 05/23/19 LT. David Hartley via Email REFERENCE TO: 15070000 CDS: 100 Low WBS Low 100 P/W: DWS/KDB BRANCH MANAGER: CAD CHIEF ENGINEER: EJA FIRE INSPECTOR: HPV	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION, NORFOLK, VIRGINIA CAMP LEJEUNE, N.C. U.S. MARINE CORPS <b>REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL</b> PARTIAL MECHANICAL HVAC PLAN - LEVEL 1 - AREA E1	
SCALE:	AS NOTED
PROJECT NO.:	
CONTR. CONTROL NO.:	
NAVFAC DRAWING NO.:	2730465
SHEET:	65 OF 136
<b>M-101-E1</b>	
<small>DRAWING REVISION: 31 JANUARY 2017</small>	



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  - 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 TAG PURPOSES.



DATE	05/23/19
DESCRIPTION	ISSUED FOR CONSTRUCTION
REV	0

05/23/19

**CBHF**  
Engineers, PLLC

2248 Yallopson Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6399  
www.cbhfengineers.com

FOR COMMON MARK 7/9/2019

LT David Hartley via Email  
DATE: 05/23/19

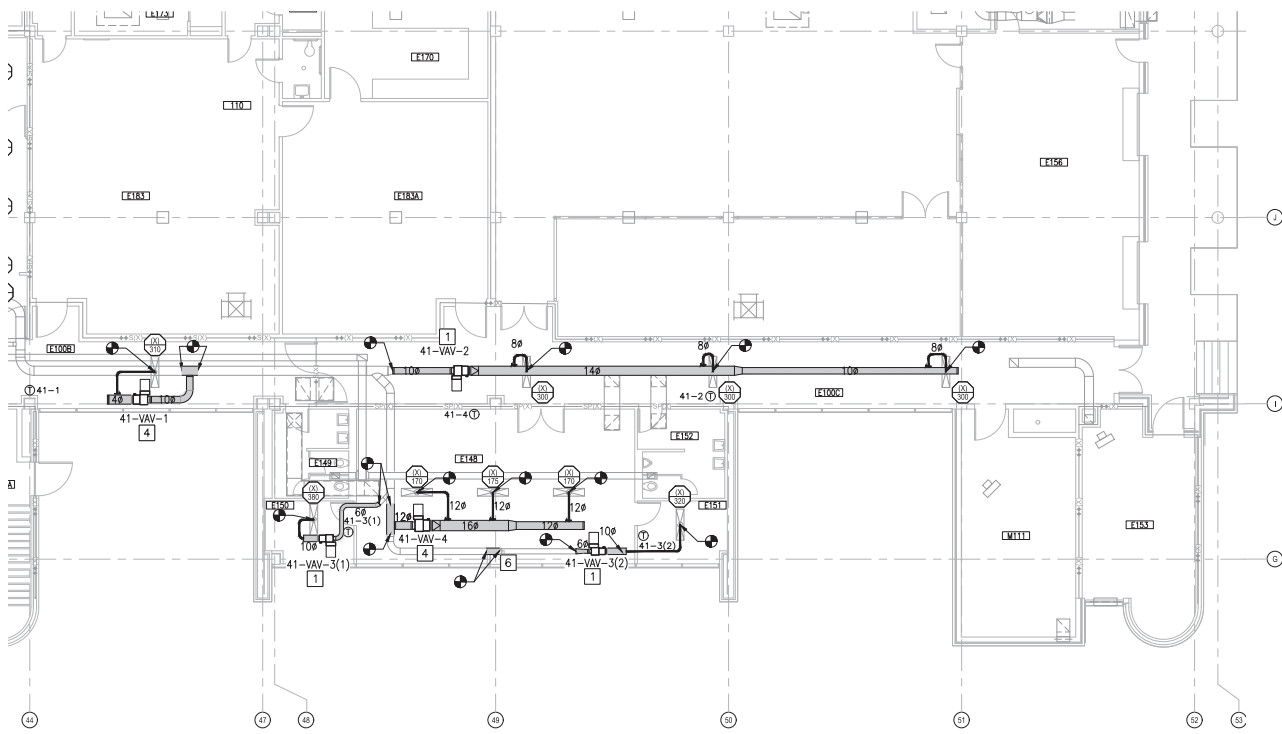
DES: TCC  
CHK: JWB  
INSP: JWB  
P/IN: DWS/KDB  
BRANCH MANAGER: CADP  
CHECK ENGINEER: JEA  
PROJECT NUMBER: HFNV

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, 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 E2

SCALE: AS NOTED  
PROJECT NO.:  
CONTR. CONTROL NO.:  
NAVFAC DRAWING NO.: 12790466  
SHEET: 67 OF 136  
M-101-E2  
DRAWING REVISION: 31 JANUARY 2017





PARTIAL PLAN - LEVEL 1 - AREA F2  
SCALE: 1/8" = 1'-0"



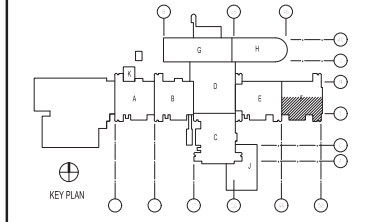
**KEYED NOTES**

- 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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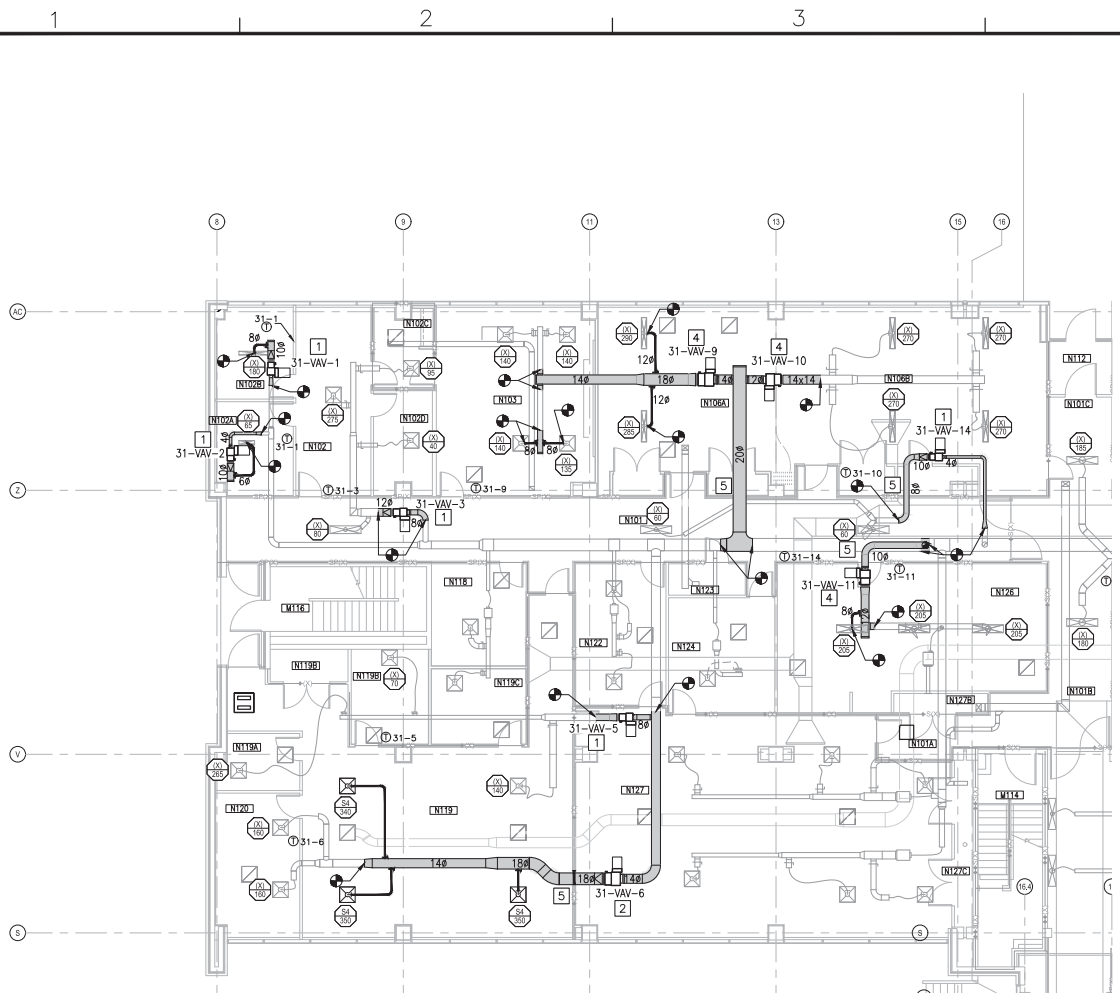
**KEY PLAN**



**GRAPHIC SCALE**



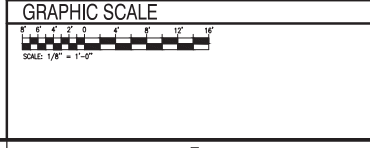
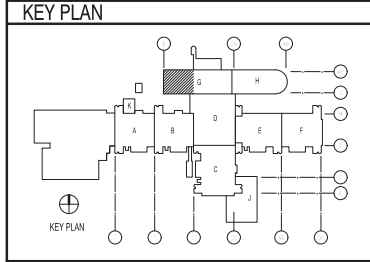
DATE	05/23/19
DESCRIPTION	ISSUED FOR CONSTRUCTION
BY	HW
<b>CBHF</b> Engineers, PLLC 22048 Tellicoport Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6299 www.cbhflow.com	
LT David Hartley via Email REFERENCE TO: 1507009	
FOR COMMON MARK: 7/19/2019	
REVISIONS:	
DRAWN: DWS/KDB CHECKED: CAD DATE: 05/23/19	
PROJECT: NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC U.S. MARINE CORPS CAMP LEJEUNE, N.C. REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL PARTIAL MECHANICAL HVAC PLAN - LEVEL 1 - AREA F2	
SCALE:	AS NOTED
CONTR. CONTROL NO.	
NAVFAC DRAWING NO.	2730467
SHEET	05 OF 106
<b>M-101-F2</b>	
<small>DATEPLOT REVISION: 31 JANUARY 2017</small>	



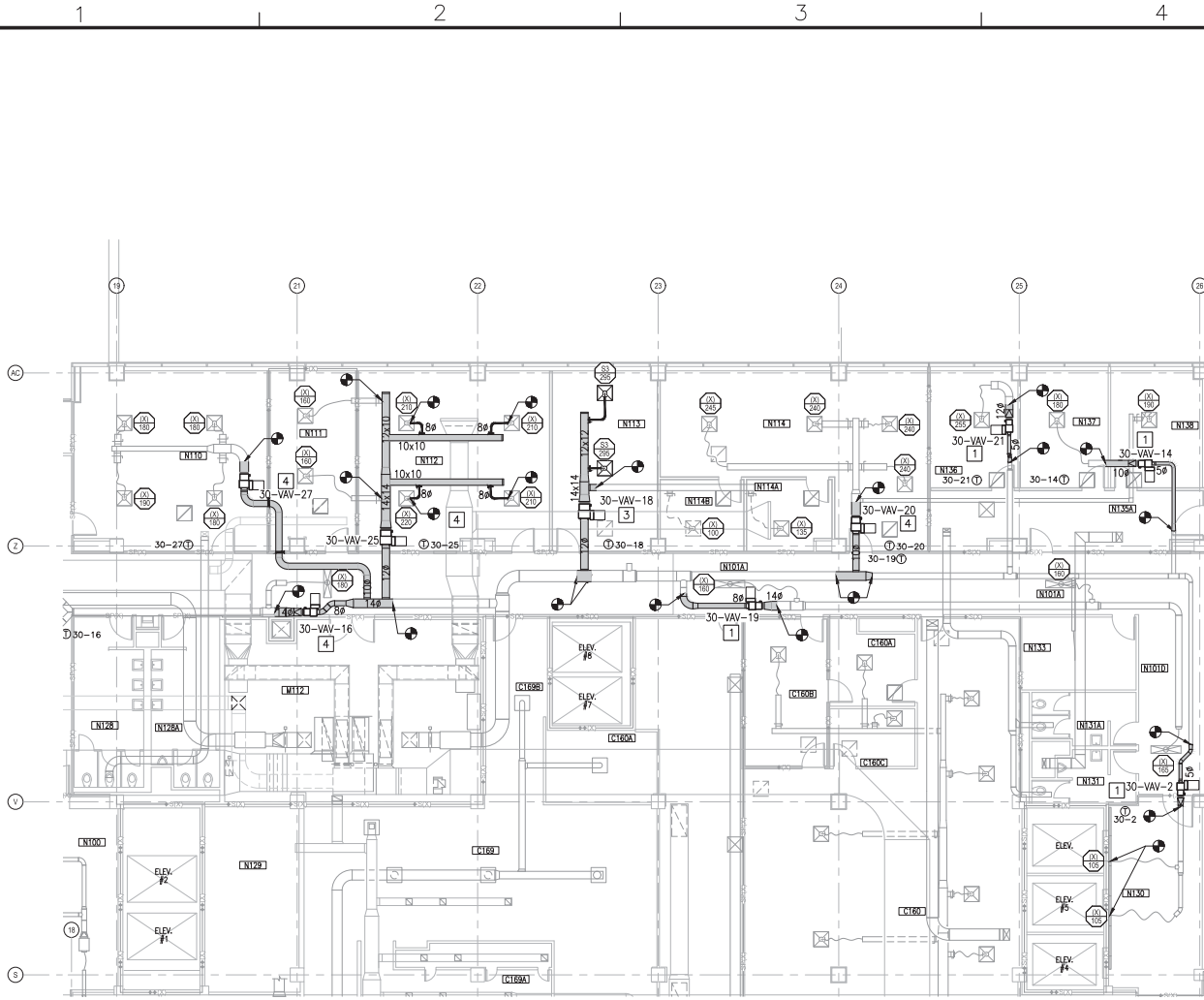
PARTIAL PLAN - LEVEL 1 - AREA G1  
SCALE: 1/8" = 1'-0"

- ### KEYED NOTES
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DATE	05/23/19	BY	
DESCRIPTION	ISSUED FOR CONSTRUCTION	DATE	
<b>CBHF</b> Engineers, PLLC 22048 Vantage Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.6286 www.cbhfgwa.com			
FOR COMMON MARK 71912019 KEYS LT David Hartley via Email REFERENCE TO: 15270468 ISS: 100 LOW WBS LOW 100 PLAN DWG/KDB BRANCH MANAGER CADW CHECK ENG/WHI FIRE PROTECTION HPV			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION, NORFOLK, VIRGINIA NAME: CORE G1 U.S. MARINE CORPS CAMP LEJEUNE, N.C. REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL PARTIAL MECHANICAL HVAC PLAN PARTIAL - LEVEL 1 - AREA G1			
SCALE:	AS NOTED		
PROJECT NO.:	12790468		
CONDIC. CONTROL NO.:			
NAVFAC DRAWING NO.:	12790468		
SHEET:	65	OF	156
<b>M-101-G1</b> <small>DRAWING REVISION: 31 JANUARY 2017</small>			



PARTIAL PLAN - LEVEL 1 - AREA G2  
SCALE: 1/8"=1'-0"



**KEYED NOTES**

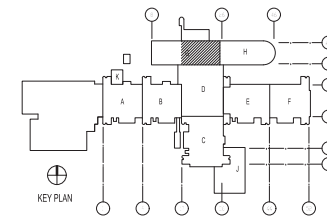
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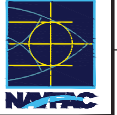
**KEY PLAN**



**GRAPHIC SCALE**



DATE	DESCRIPTION	BY
05/23/19	ISSUED FOR CONSTRUCTION	



05/23/19

**CBHF**  
Engineers, PLLC

2248 Velington Drive  
Wilmington, NC 28401  
Phone: 910.791.4000  
Fax: 910.791.6299  
www.cbhfind.com

FOR COMMON MARK 7/19/2019

LT David Hartley via Email  
DATE: 05/23/19

DESIGNED BY: JAH  
CHECKED BY: JAH  
DATE: 05/23/19

PROJECT NO.: 12790469  
SHEET NO.: 75 OF 156

REPLACE BOILERS AND INSTALL REHEAT COILS - NH100 NAVAL HOSPITAL

PARTIAL MECHANICAL HVAC PLAN - LEVEL 1 - AREA G2

U.S. MARINE CORPS  
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION, NORFOLK, VIRGINIA

CAMP LEJEUNE, N.C.

SCALE: AS NOTED

CONTR. CONTROL NO.

NAVFAC DRAWING NO. 12790469

M-101-G2

DRAWN REVISION: 31 JANUARY 2017