





**WALL PROTECTION LEGEND**

- CORNER GUARD 
- END WALL GUARD 
- ANGLE WALL GUARD 
- RIGID VINYL SHEET (RVS-X) 

**KEY: CG-XX** REFERS TO COLOR, REF CSK  
**CG-XX** REFERS TO HEIGHT, REF CSK

**GENERAL NOTES**

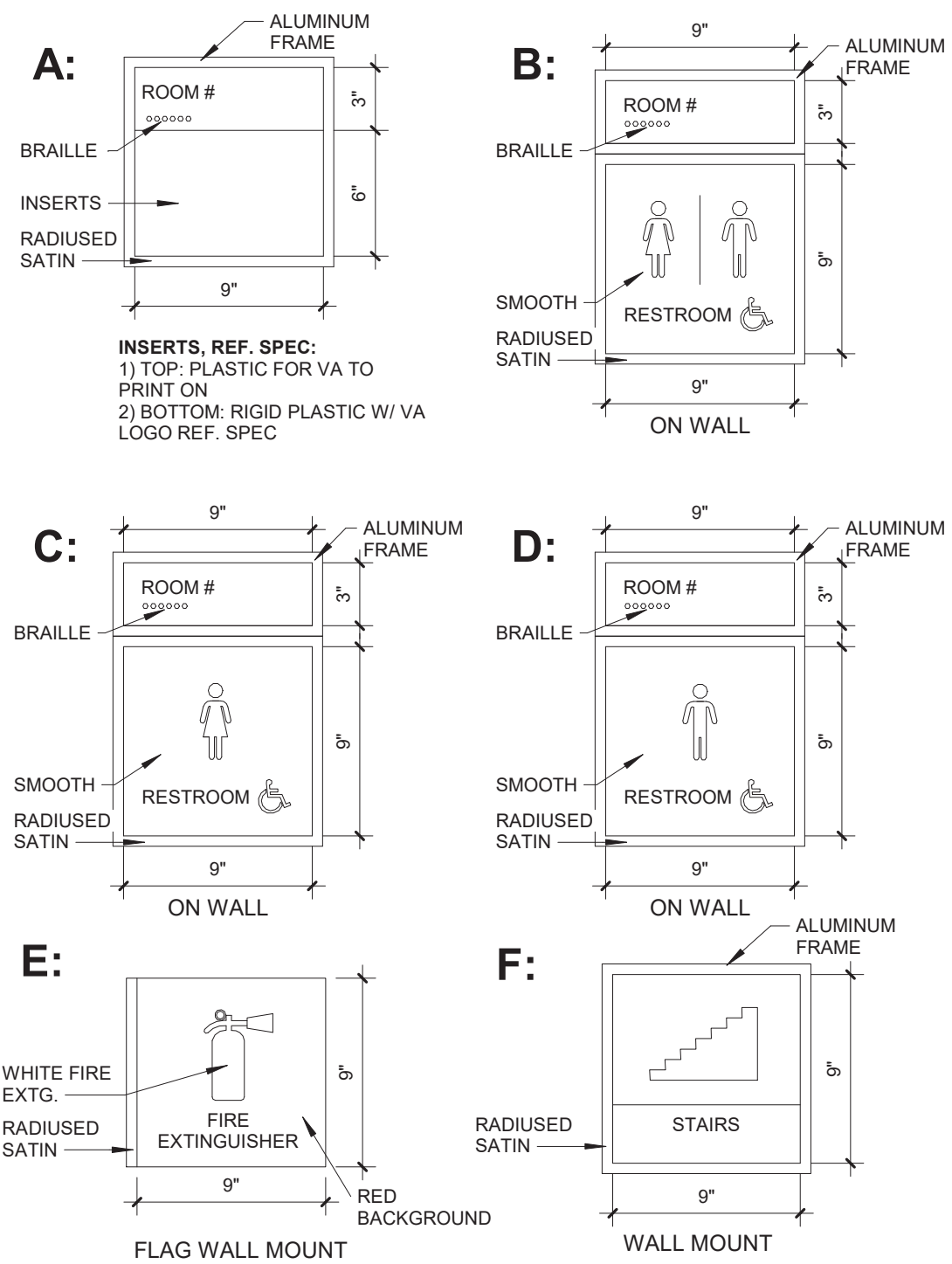
- INSTALL ALL WALL CORNER GUARDS, END GUARDS, & ANGLE GUARDS ABOVE FLOOR BASE.
- REFER TO COLOR SCHEDULE KEY AND SPECIFICATIONS MANUAL FOR WALL PROTECTION MANUFACTURER, SIZE & COLOR.

MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES AND PATTERNS. PRODUCTS OF OTHER MANUFACTURERS EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS WILL BE ACCEPTABLE UPON APPROVAL IN WRITING BY CONTRACTING OFFICER FOR FINISH REQUIREMENTS.

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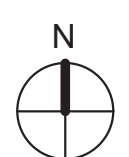
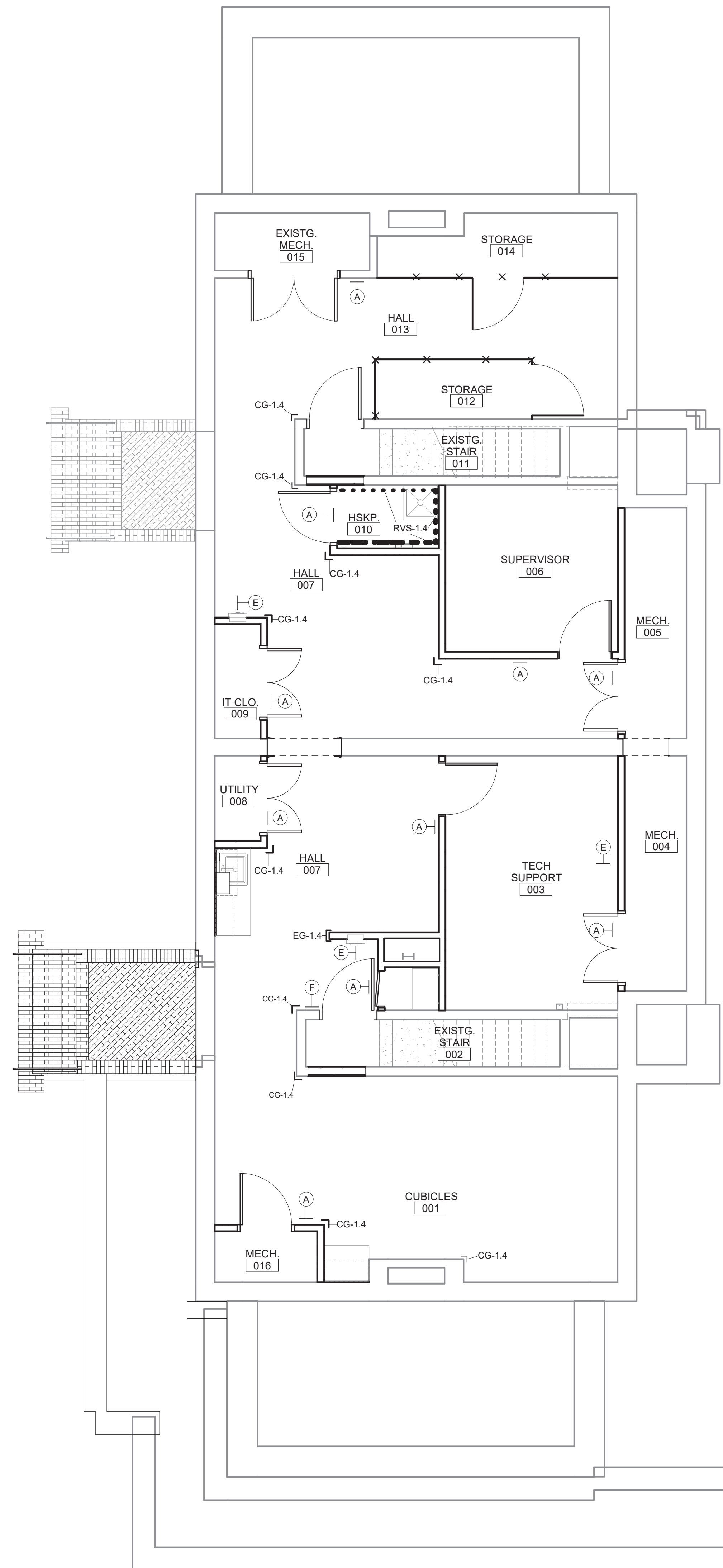
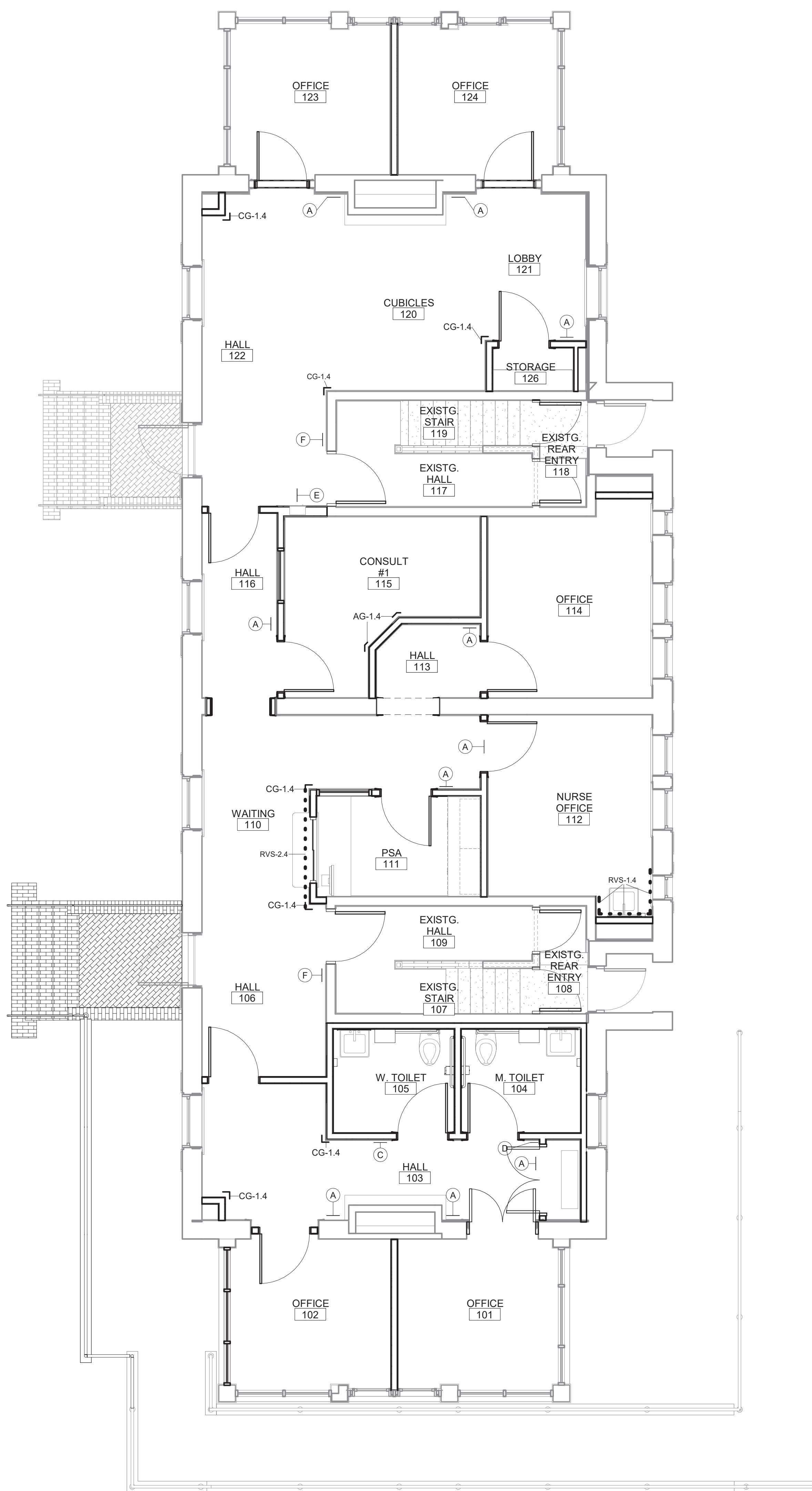
**SIGNAGE SCHEDULE BID DEDUCT #5**

SIGN TYPE	MOUNTING SURFACE	MESSAGE
A	WALL AND DOOR	ROOM # / TBD BY VA
B	WALL	ROOM # / RESTROOM
C	WALL	ROOM # / WOMEN'S RESTROOM
D	WALL	ROOM # / MEN'S RESTROOM
E	FLAG MOUNT	FIRE EXTINGUISHER
F	WALL	STAIRS

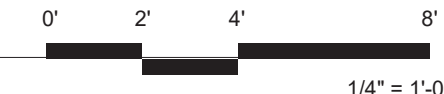


**SIGNAGE NOTES**

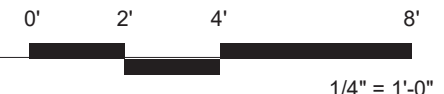
- MESSAGE/TEXT TO BE CONFIRMED WITH VA DURING SUBMITTALS.



① MAIN LEVEL WALL PROTECTION FLOOR AND SIGNAGE PLAN  
 1/4" = 1'-0"



② LOWER LEVEL WALL PROTECTION AND SIGNAGE FLOOR PLAN  
 1/4" = 1'-0"

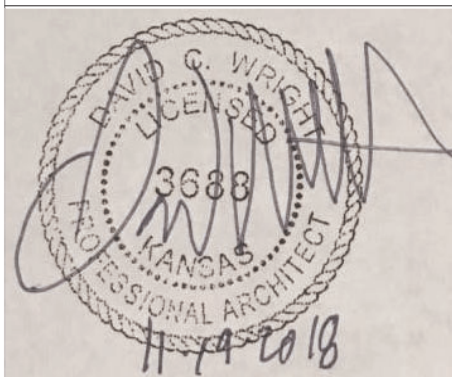


Revisions:	Date

**CONSULTANTS:**



**SEAL:**



**ARCHITECT/ENGINEERS:**



**Drawing Title**

**WALL PROTECTION AND SIGNAGE PLAN BID DEDUCT #5**

Approved: Project Director

Project Title  
 RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
 Contract No.: VA255-17-D-0080  
 Task Order No.: 36C25518N1024  
 Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date	Checked	Drawn
11/19/18	-	-

**Project Number**

589A7-18-301

Building Number

**Drawing Number**

**AI-103.5**

Dwg.

Office of Construction and Facilities Management



three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 one half inch = one foot  
 three quarters inch = one foot  
 one quarter inch = one foot  
 three eighths inch = one foot  
 one eighth inch = one foot  
 one eighth inch = one foot

### WALL PROTECTION LEGEND

CORNER GUARD

END WALL GUARD

ANGLE WALL GUARD

RIGID VINYL SHEET (RVS-X)

KEY: CG -X.X  
 REFERS TO COLOR, REF CSK  
 REFERS TO HEIGHT, REF CSK

### GENERAL NOTES

1. INSTALL ALL WALL CORNER GUARDS, END GUARDS, & ANGLE GUARDS ABOVE FLOOR BASE.

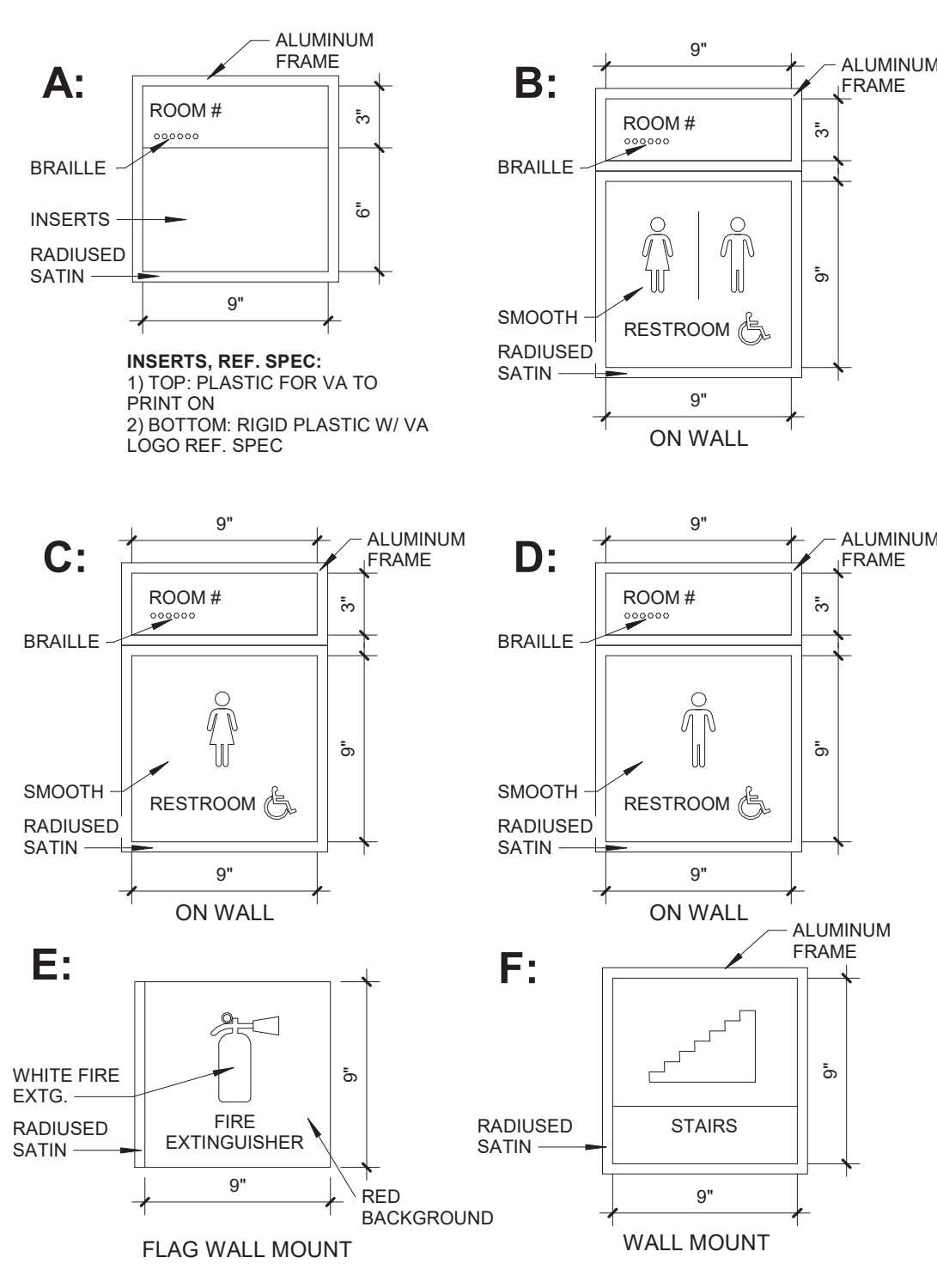
3. REFER TO COLOR SCHEDULE KEY AND SPECIFICATIONS MANUAL FOR WALL PROTECTION MANUFACTURER, SIZE & COLOR.

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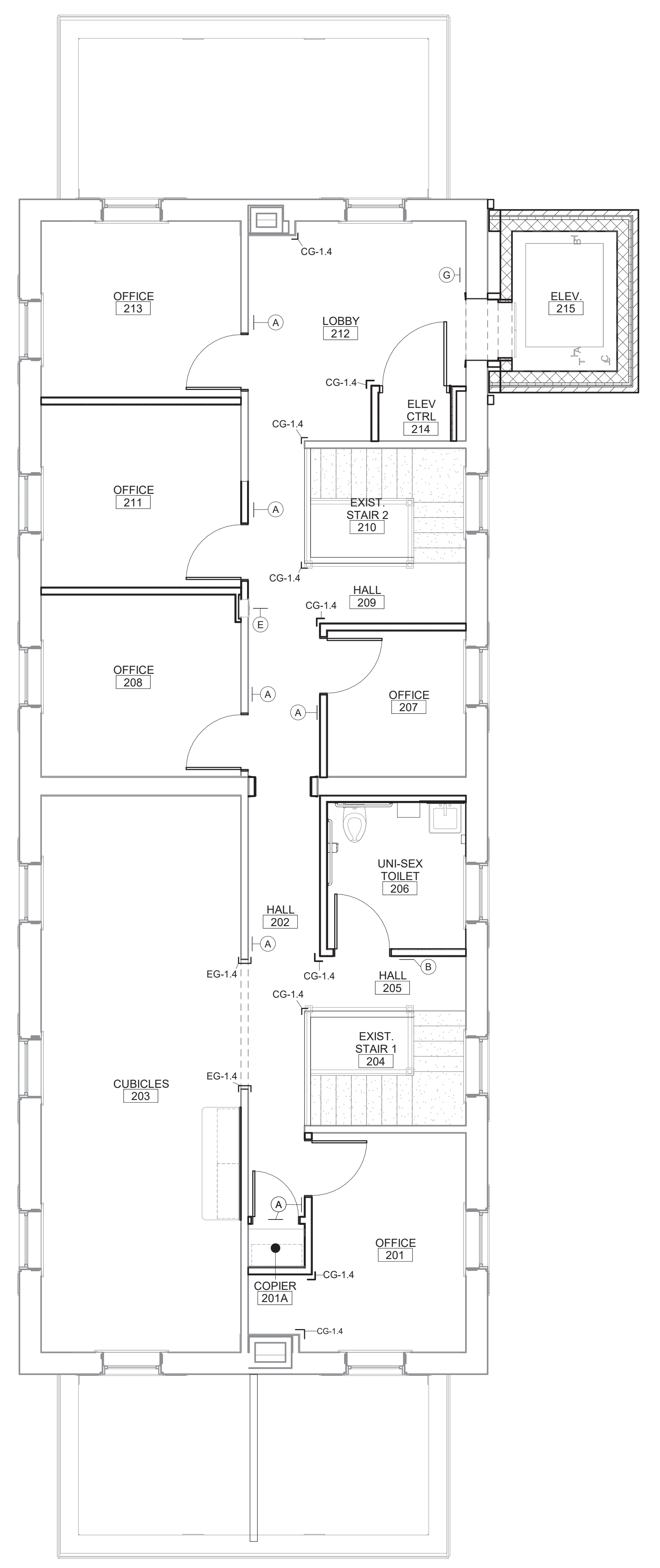
### SIGNAGE SCHEDULE

SIGN TYPE	MOUNTING SURFACE	MESSAGE
A	WALL AND DOOR	ROOM # / TBD BY VA
B	WALL	ROOM # / RESTROOM
C	WALL	ROOM # / WOMENS RESTROOM
D	WALL	ROOM # / MENS RESTROOM
E	FLAG MOUNT	FIRE EXTINGUISHER
F	WALL	STAIRS
G	WALL	ELEVATOR



### SIGNAGE NOTES

1. MESSAGE/TEXT TO BE CONFIRMED WITH VA DURING SUBMITTALS.



① UPPER LEVEL WALL PROTECTION FLOOR PLAN  
 1/4" = 1'-0"

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

CONSULTANTS:  <b>PEC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 S. TOPEKA WICHITA, KANSAS 67202 316.262.2691	SEAL: 	ARCHITECT/ENGINEERS:  <b>m:HFG</b> ARCHITECTURE 117 PIERCE ST, SUITE 110 SIOUX CITY, IOWA 51101 712.262.4014	142 N. MOSLEY ST. WICHITA, KANSAS 67202 316.262.2690	Drawing Title <b>WALL PROTECTION AND SIGNAGE PLAN</b>	Project Title RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7 Contract No.: VA255-17-D-0080 Task Order No.: 36C25518N1024 Obligation No.: 589-C81081	Project Number <b>589A7-18-301</b>	Office of Construction and Facilities Management 
				Approved: Project Director	Location <b>Wichita, Kansas</b>	Building Number	
Revisions:	Date	Date <b>11/19/18</b>	Checked --	Drawn --	Dwg.		

VA FORM 08-6231

**WALL PROTECTION LEGEND**

CORNER GUARD	
END WALL GUARD	
ANGLE WALL GUARD	
RIGID VINYL SHEET (RVS-X)	

**KEY:** CG -X.X REFERS TO COLOR, REF CSK  
 REFERS TO HEIGHT, REF CSK

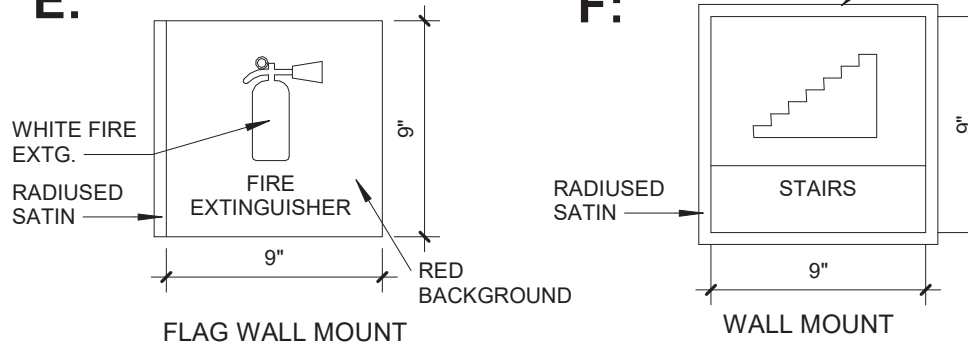
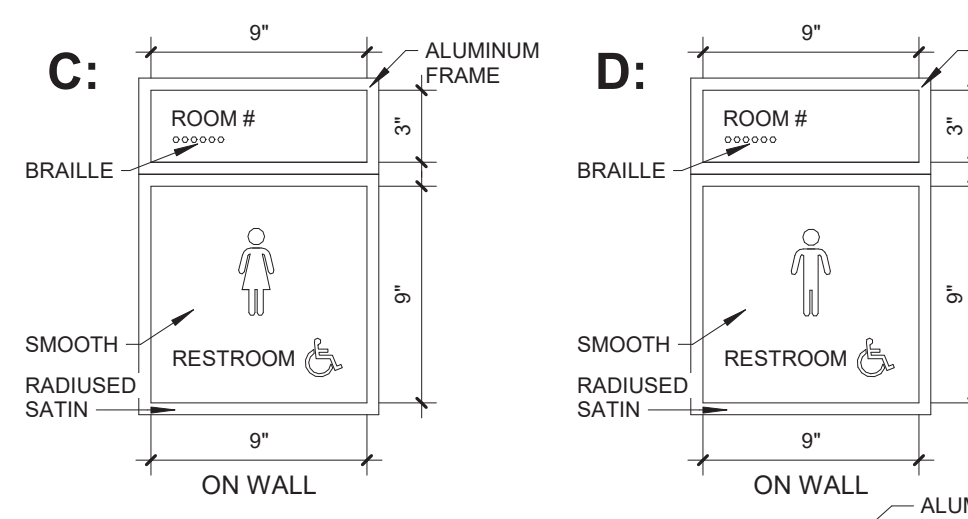
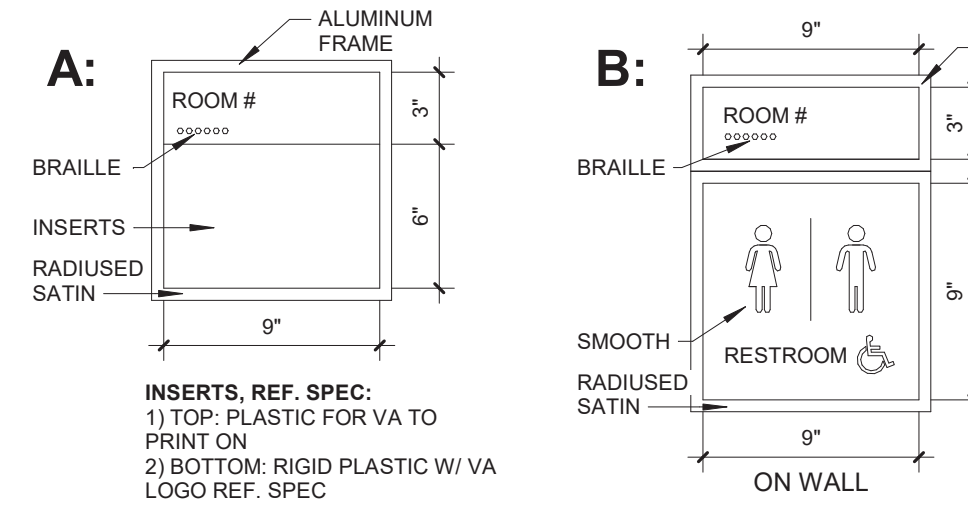
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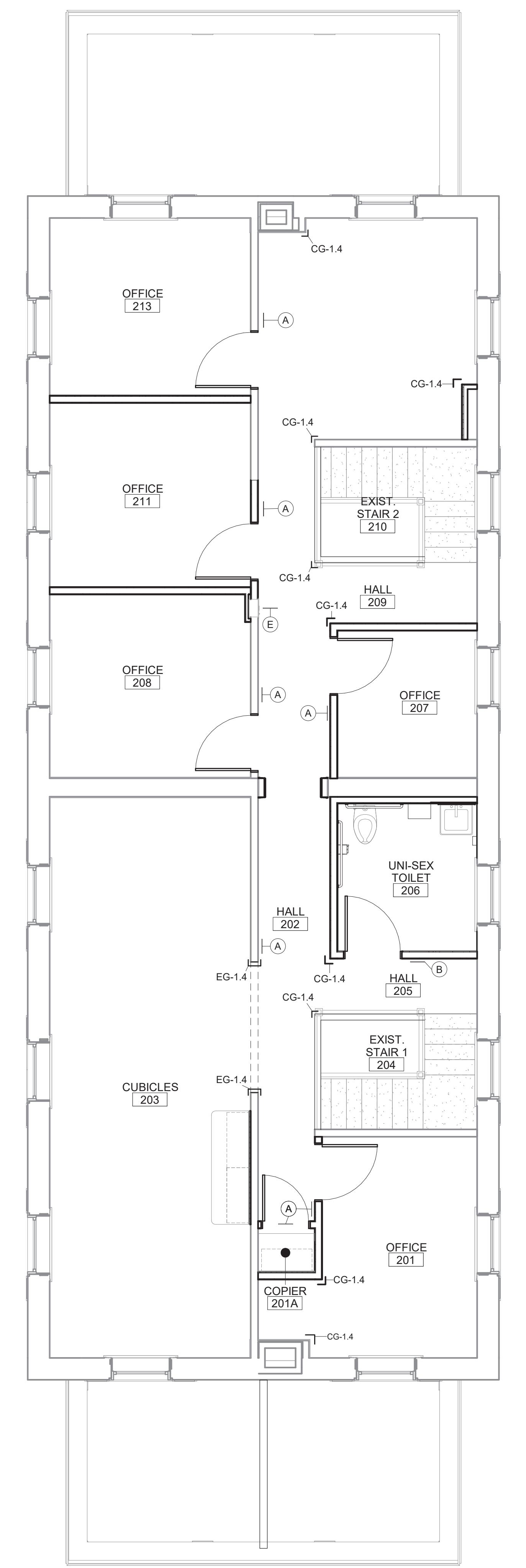
**SIGNAGE SCHEDULE BID DEDUCT #5**

SIGN TYPE	MOUNTING SURFACE	MESSAGE
A	WALL AND DOOR	ROOM # / TBD BY VA
B	WALL	ROOM # / RESTROOM
C	WALL	ROOM # / WOMEN'S RESTROOM
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E	FLAG MOUNT	FIRE EXTINGUISHER
F	WALL	STAIRS



**SIGNAGE NOTES**

- MESSAGE/TEXT TO BE CONFIRMED WITH VA DURING SUBMITTALS.



1 UPPER LEVEL WALL PROTECTION FLOOR PLAN  
 1/4" = 1'-0"

Scale indicators on the left margin:  
 three inches = one foot  
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 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
 one sixteenth inch = one foot

Revisions:	Date

**CONSULTANTS:**

**SEAL:**

**ARCHITECT/ENGINEERS:**

117 PIERCE ST, SUITE 110 SIOUX CITY, IOWA 51101 712.262.4014  
 142 N. MOSLEY ST. WICHITA, KANSAS 67202 316.262.2500

**Drawing Title**  
**WALL PROTECTION AND SIGNAGE PLAN BID DEDUCT ITEM #5**

Approved: Project Director

**Project Title**  
 RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
 Contract No.: VA255-17-D-0080  
 Task Order No.: 36C25518N1024  
 Obligation No.: 589-C81081

**Location**  
 Wichita, Kansas

**Project Number**  
 589A7-18-301

**Building Number**

**Drawing Number**  
**AI-104.5**

Date: 11/19/18  
 Checked: -  
 Drawn: -

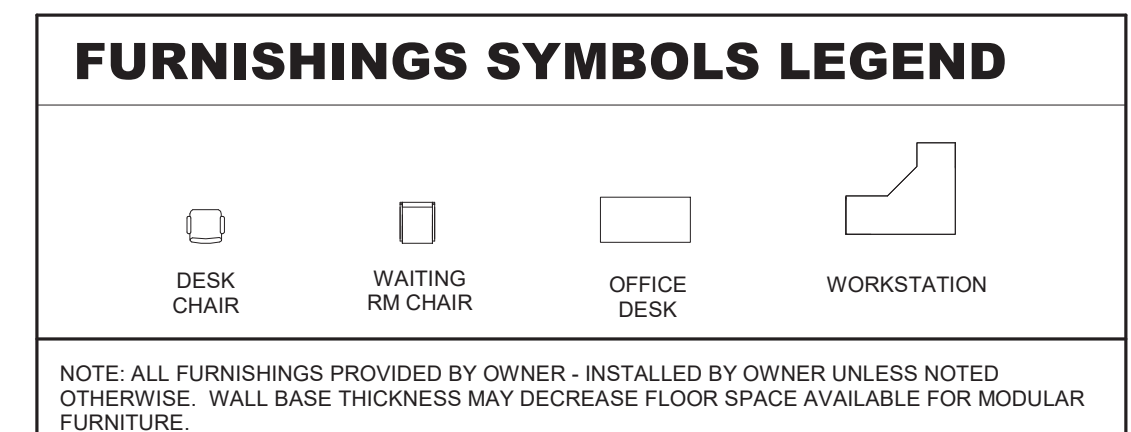
Dwg.

**Office of Construction and Facilities Management**

Department of Veterans Affairs

EQUIPMENT SCHEDULE							
Equipment Number	Equipment Description	Provided by	Installed by	Requirements			Notes
				Elec.	Data	Mech. / Plumb.	
01001N	DUAL MONITOR DESKTOP	VA	VA	Yes	Yes		
01002N	UNDER CABINET REFRIGERATOR	VA	VA	Yes	Yes		
01003N	PHONE	VA	VA	Yes	Yes		
01004N	PRINTER	VA	VA	Yes	Yes		
01006N	TELEVISION MONITOR	VA	GC	Yes	Yes		VA TO PROVIDE WALL MOUNT BRACKET
01007N	LARGE PRINTER	VA	VA	Yes	Yes		
01008N	MICROWAVE	VA	VA	Yes	Yes		
01009N	SINGLE MONITOR DESKTOP	VA	VA	Yes	Yes		
01010N	MAILBOXES	VA	GC				

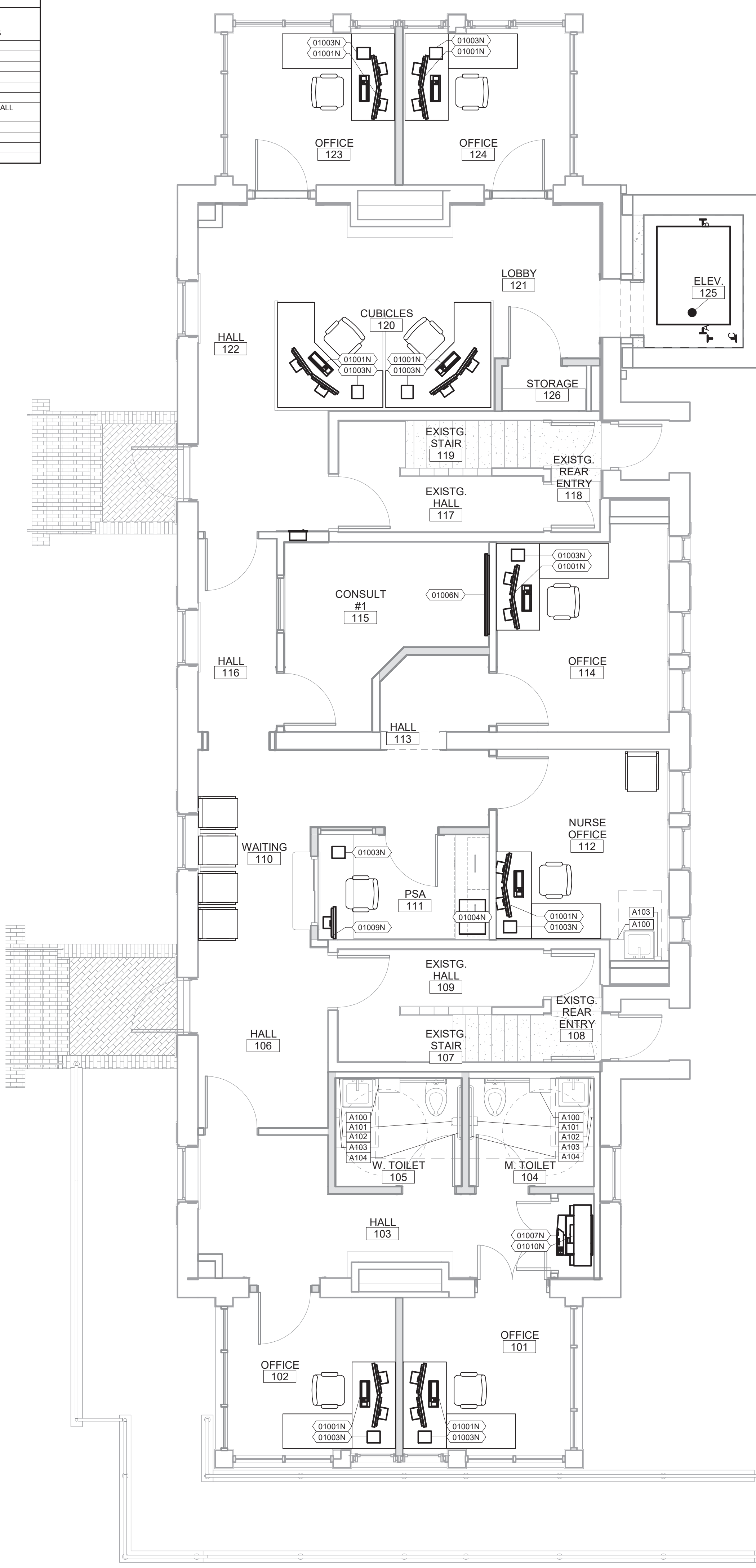
ACCESSORIES SCHEDULE			
ACCESSORY KEY	ITEM DESCRIPTION	PROVIDED BY	INSTALLED BY
A100	PAPER TOWEL DISPENSER	VA	GC
A101	TOILET TISSUE DISPENSER	VA	GC
A102	MIRROR	GC	GC
A103	SOAP DISPENSER	VA	GC
A104	GRAB BARS	GC	GC
A105	MDP RACK	GC	GC



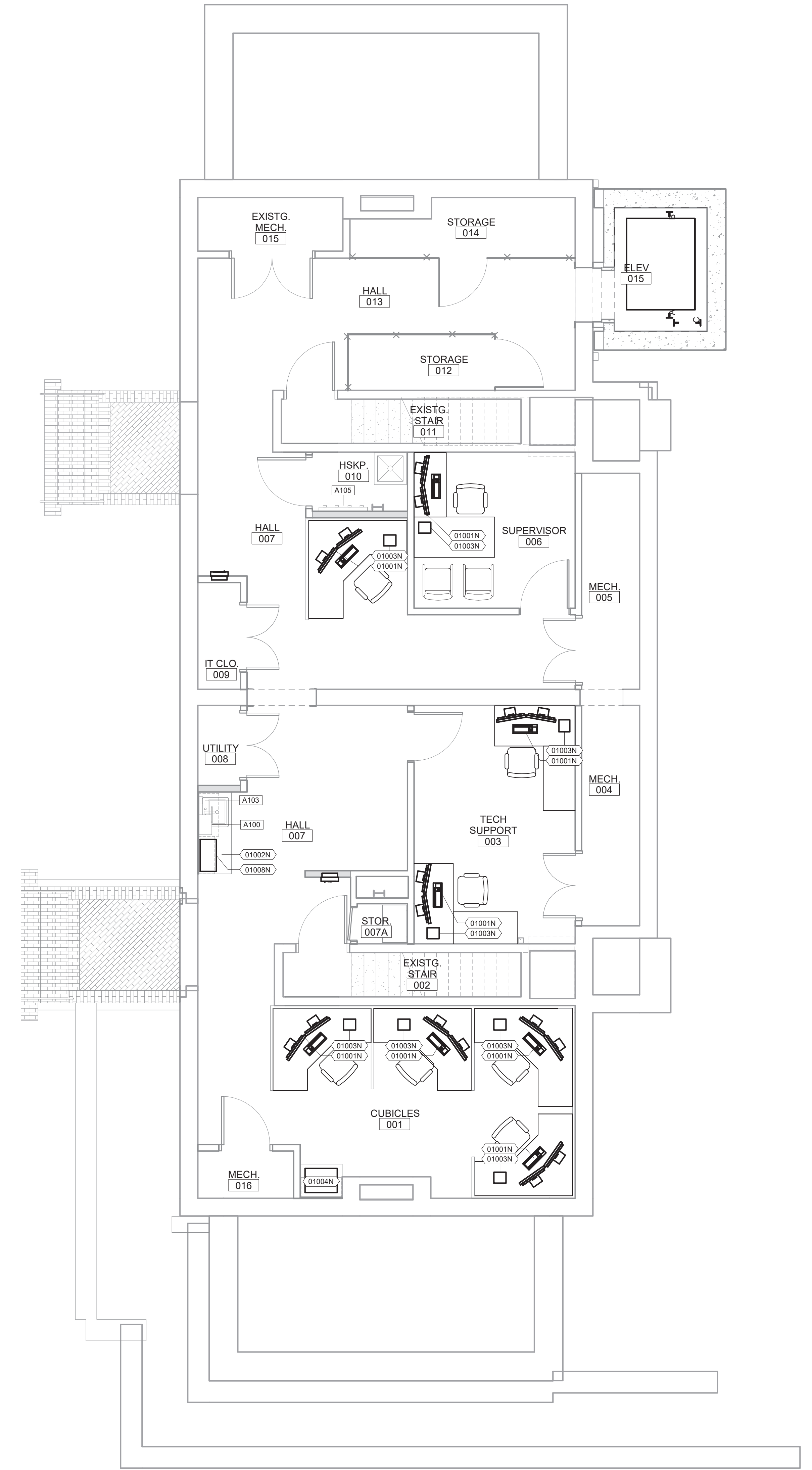
NOTE: ALL FURNISHINGS PROVIDED BY OWNER - INSTALLED BY OWNER UNLESS NOTED OTHERWISE. WALL BASE THICKNESS MAY DECREASE FLOOR SPACE AVAILABLE FOR MODULAR FURNITURE.

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1 MAIN LEVEL EQUIPMENT FLOOR PLAN  
1/4" = 1'-0"



2 LOWER LEVEL EQUIPMENT FLOOR PLAN  
1/4" = 1'-0"

three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

Revisions:	Date

**CONSULTANTS:**

**PEC**  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 S. TOPEKA  
WICHITA, KANSAS 67202  
316.262.2691

**SEAL:**

**ARCHITECT/ENGINEERS:**

**m:HFG ARCHITECTURE**  
117 PIERCE ST. SUITE 110    142 N. MOSLEY ST.  
WICHITA, KANSAS 67201    WICHITA, KANSAS 67202  
712.292.4014    316.262.2690

Drawing Title  
**EQUIPMENT PLAN**

Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C2518N1024  
Obligation No.: 589-C81081

Location  
Wichita, Kansas

Date  
11/19/18

Checked  
-

Drawn  
-

Project Number  
589A7-18-301

Building Number

Drawing Number  
**AI-201**

Dwg.

Office of Construction and Facilities Management

Department of Veterans Affairs

EQUIPMENT SCHEDULE							
Equipment Number	Equipment Description	Provided by	Installed by	Requirements			Notes
				Elec.	Mech.	Plumb.	
01001N	DUAL MONITOR DESKTOP	VA	VA	Yes	Yes		
01002N	UNDER CABINET REFRIGERATOR	VA	VA	Yes	Yes		
01003N	PHONE	VA	VA	Yes	Yes		
01004N	PRINTER	VA	VA	Yes	Yes		
01006N	TELEVISION MONITOR	VA	GC	Yes	Yes		VA TO PROVIDE WALL MOUNT BRACKET
01007N	LARGE PRINTER	VA	VA	Yes	Yes		
01008N	MICROWAVE	VA	VA	Yes	Yes		
01009N	SINGLE MONITOR DESKTOP	VA	VA	Yes	Yes		
01010N	MAILBOXES	VA	GC	Yes	Yes		

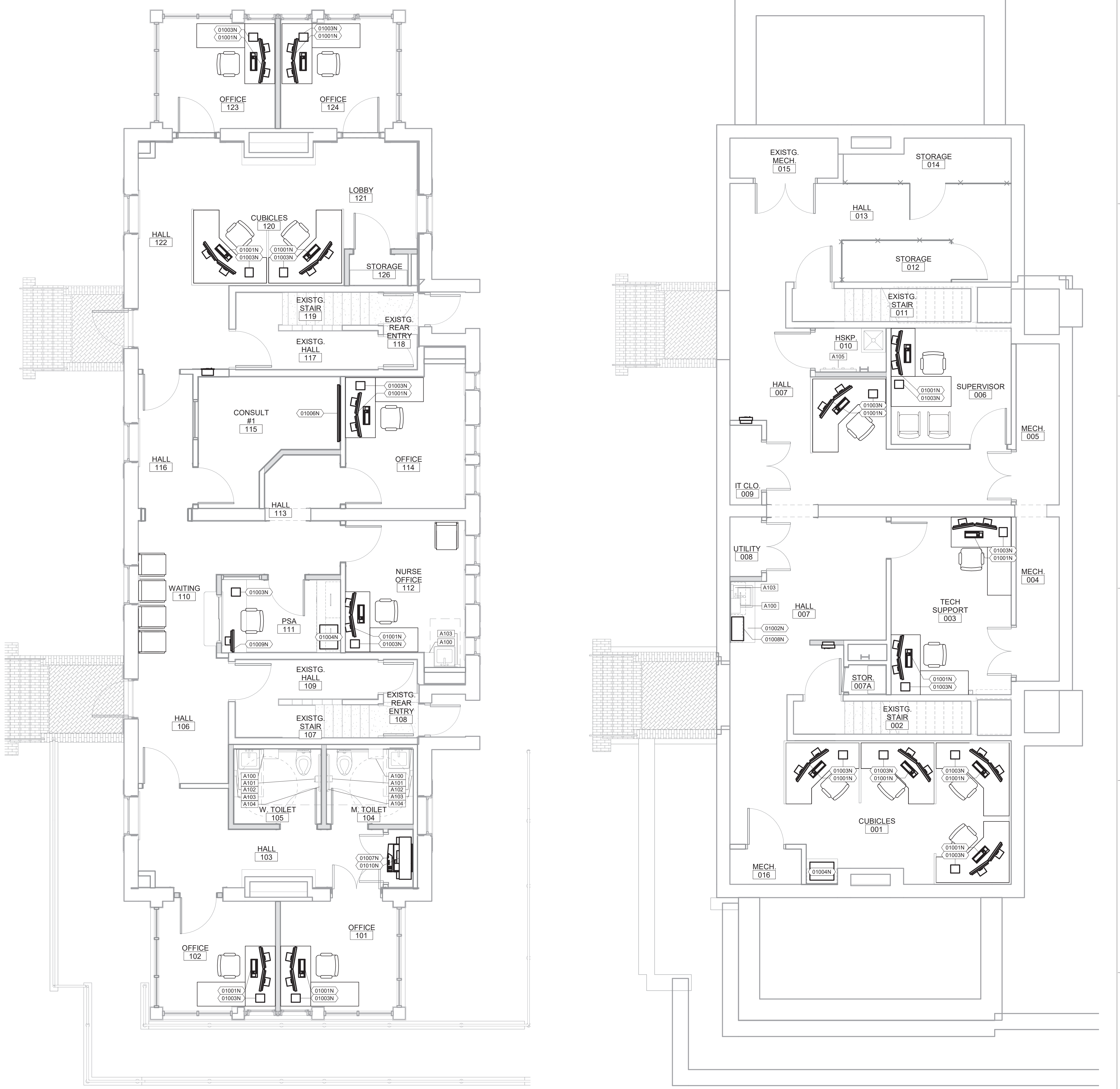
ACCESSORIES SCHEDULE			
ACCESSORY KEY	ITEM DESCRIPTION	PROVIDED BY	INSTALLED BY
A100	PAPER TOWEL DISPENSER	VA	GC
A101	TOILET TISSUE DISPENSER	VA	GC
A102	MIRROR	GC	GC
A103	SOAP DISPENSER	VA	GC
A104	GRAB BARS	GC	GC
A105	MOP RACK	GC	GC

FURNISHINGS SYMBOLS LEGEND			
	DESK CHAIR		WAITING RM CHAIR
	OFFICE DESK		WORKSTATION

NOTE: ALL FURNISHINGS PROVIDED BY OWNER - INSTALLED BY OWNER UNLESS NOTED OTHERWISE. WALL BASE THICKNESS MAY DECREASE FLOOR SPACE AVAILABLE FOR MODULAR FURNITURE.

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1 MAIN LEVEL EQUIPMENT FLOOR PLAN  
1/4" = 1'-0"

2 LOWER LEVEL EQUIPMENT FLOOR PLAN  
1/4" = 1'-0"

Revisions:	Date

**CONSULTANTS:**

**PEC**  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 S. TOPEKA  
WICHITA, KANSAS 67202  
316.262.2691

**SEAL:**

**ARCHITECT/ENGINEERS:**

**m:HFG ARCHITECTURE**  
117 PIERCE ST, SUITE 110  
SIOUX CITY, IOWA 51101  
712.262.4014

142 N. MOSLEY ST.  
WICHITA, KANSAS 67202  
316.262.2900

Drawing Title  
**EQUIPMENT PLAN BID DEDUCT ITEM #5**

Approved: Project Director

Project Title  
**RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7**

Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date: 11/19/18  
Checked: -  
Drawn: -

Project Number: 589A7-18-301  
Building Number:  
Drawing Number: **AI-201.5**  
Dwg.

Office of Construction and Facilities Management

Department of Veterans Affairs

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EQUIPMENT SCHEDULE							
Equipment Number	Equipment Description	Provided by	Installed by	Requirements			Notes
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01003N	PHONE	VA	VA	Yes			
01004N	PRINTER	VA	VA	Yes	Yes		
01006N	TELEVISION MONITOR	VA	GC	Yes	Yes		VA TO PROVIDE WALL MOUNT BRACKET
01007N	LARGE PRINTER	VA	VA	Yes	Yes		
01008N	MICROWAVE	VA	VA	Yes			
01009N	SINGLE MONITOR DESKTOP	VA	VA	Yes			
01010N	MAILBOXES	VA	GC				

ACCESSORIES SCHEDULE				
ACCESSORY KEY	ITEM DESCRIPTION	PROVIDED BY	INSTALLED BY	
A100	PAPER TOWEL DISPENSER	VA	GC	
A101	TOILET TISSUE DISPENSER	VA	GC	
A102	MIRROR	GC	GC	
A103	SOAP DISPENSER	VA	GC	
A104	GRAB BARS	GC	GC	
A105	MOP RACK	GC	GC	

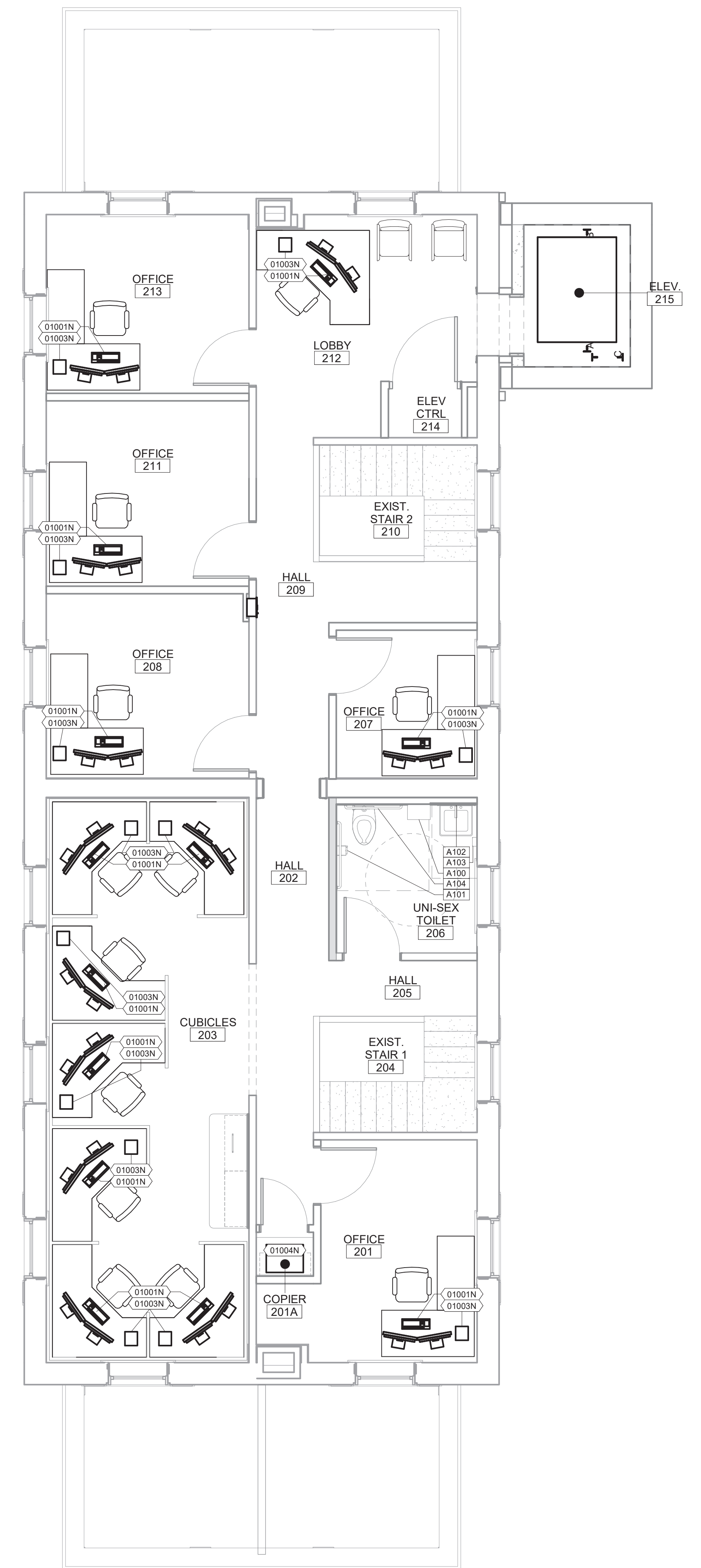
**FURNISHINGS SYMBOLS LEGEND**

DESK CHAIR    WAITING RM CHAIR    OFFICE DESK    WORKSTATION

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N  
 ① UPPER LEVEL EQUIPMENT FLOOR PLAN  
 1/4" = 1'-0"  
 0' 2' 4' 8'  
 1/4" = 1'-0"

Revisions:	Date

**CONSULTANTS:**

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 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 303 S. TOPEKA  
 WICHITA, KANSAS 67202  
 316.262.2891

**SEAL:**

**ARCHITECT/ENGINEERS:**

**m:HFG**  
 ARCHITECTURE  
 117 PIERCE ST, SUITE 110    142 N. MOSLEY ST.  
 SIOUX CITY, IOWA 51101    WICHITA, KANSAS 67202  
 712.292.4014    316.262.2900

Drawing Title

**EQUIPMENT PLAN**

Approved: Project Director

Project Title

RENOVATE AND MODERNIZE VENTILATION  
 SYSTEMS BLDG. 7  
 Contract No.: VA255-17-D-0080  
 Task Order No.: 36C25518N1024  
 Obligation No.: 589-C81081

Location

Wichita, Kansas

Date: 11/19/18

Checked: -

Drawn: -

Project Number

589A7-18-301

Building Number

Drawing Number

**AI-202**

Dwg.

Office of Construction and Facilities Management

Department of Veterans Affairs

EQUIPMENT SCHEDULE							
Equipment Number	Equipment Description	Provided by	Installed by	Requirements			Notes
				Elec.	Data	Mech.   Plumb.	
01001N	DUAL MONITOR DESKTOP	VA	VA	Yes	Yes		
01002N	UNDER CABINET REFRIGERATOR	VA	VA	Yes			
01003N	PHONE	VA	VA	Yes	Yes		
01004N	PRINTER	VA	VA	Yes	Yes		
01005N	TELEVISION MONITOR	VA	GC	Yes	Yes		VA TO PROVIDE WALL MOUNT BRACKET
01007N	LARGE PRINTER	VA	VA	Yes	Yes		
01008N	MICROWAVE	VA	VA	Yes			
01009N	SINGLE MONITOR DESKTOP	VA	VA	Yes	Yes		
01010N	MAILBOXES	VA	GC				

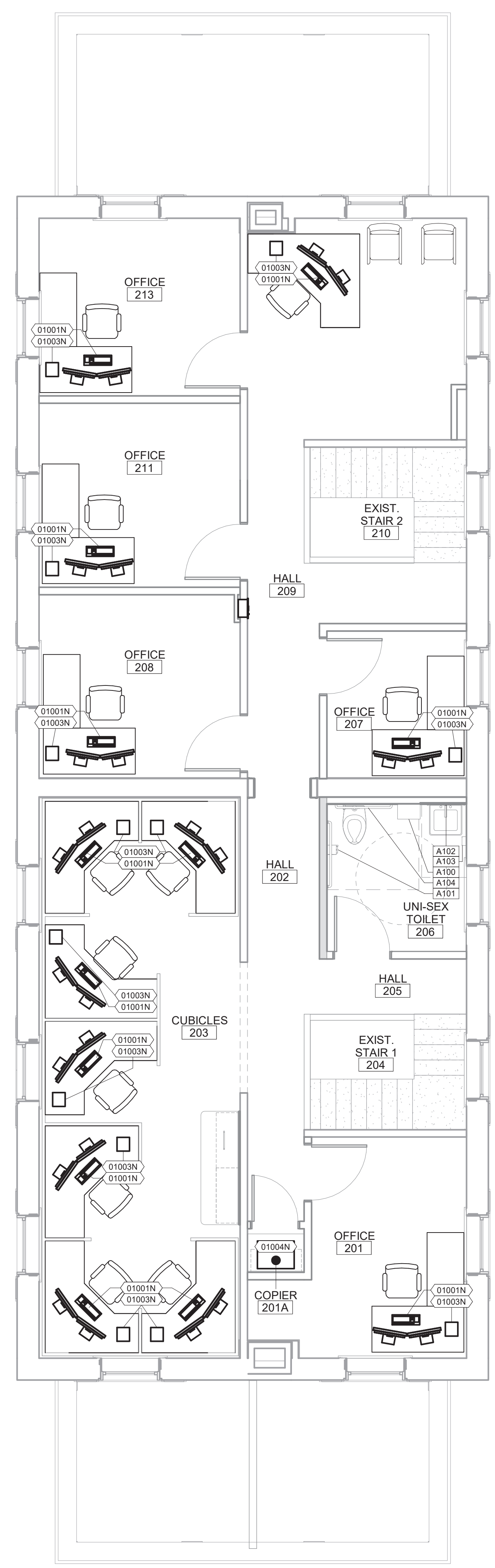
ACCESSORIES SCHEDULE			
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A103	SOAP DISPENSER	VA	GC
A104	GRAB BARS	GC	GC
A105	MOP RACK	GC	GC

**FURNISHINGS SYMBOLS LEGEND**

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1 UPPER LEVEL EQUIPMENT FLOOR PLAN  
1/4" = 1'-0"

Vertical scale markers on the left side of the drawing, indicating increments of 1/8 inch and 1/4 inch.

Revisions:	Date

**CONSULTANTS:**

**PEC**  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 S. TOPEKA  
WICHITA, KANSAS 67202  
316.262.2691

**SEAL:**

**ARCHITECT/ENGINEERS:**

**m:HFG ARCHITECTURE**  
117 PIERCE ST, SUITE 110 142 N. MOSLEY ST.  
SIOUX CITY, IOWA 51101 WICHITA, KANSAS 67202  
712.292.4014 316.262.2600

**Drawing Title**  
**EQUIPMENT PLAN BID DEDUCT ITEM #5**

Approved: Project Director

**Project Title**  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
**Contract No.:** VA255-17-D-0080  
**Task Order No.:** 36C2518N1024  
**Obligation No.:** 589-C81081

**Location**  
Wichita, Kansas

Date	Checked	Drawn
11/19/18	-	-

**Project Number**  
589A7-18-301

**Building Number**

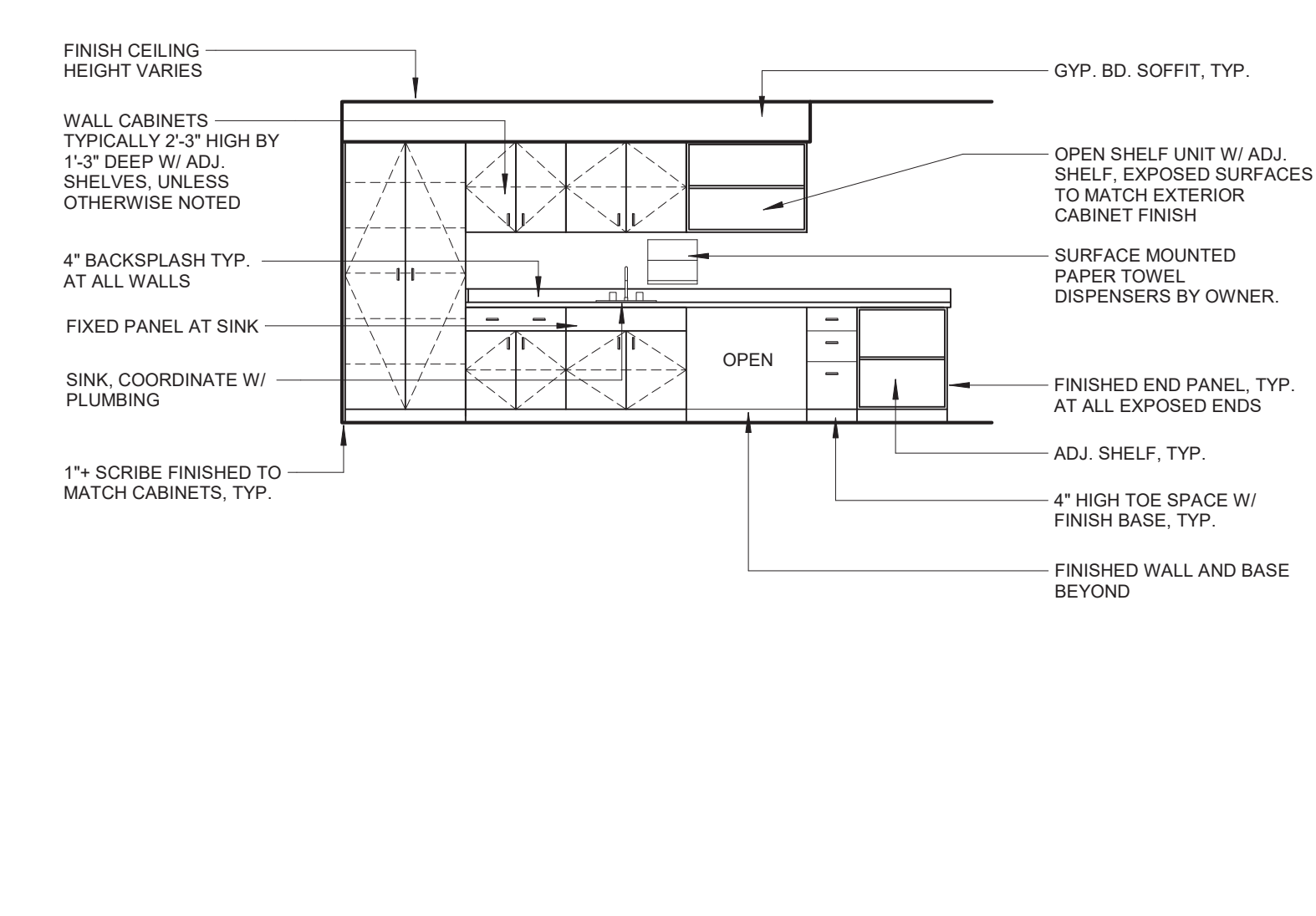
**Drawing Number**  
**AI-202.5**

Dwg.

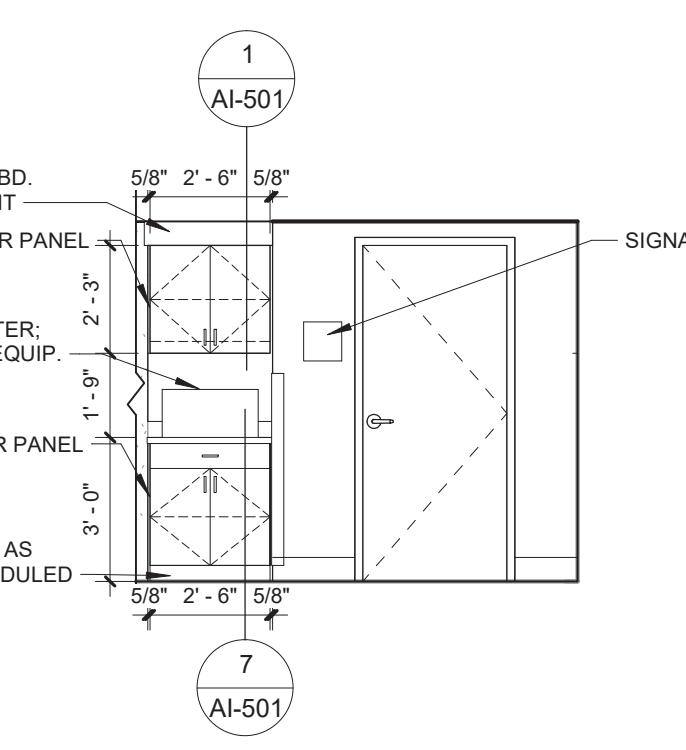
Office of Construction and Facilities Management  
Department of Veterans Affairs

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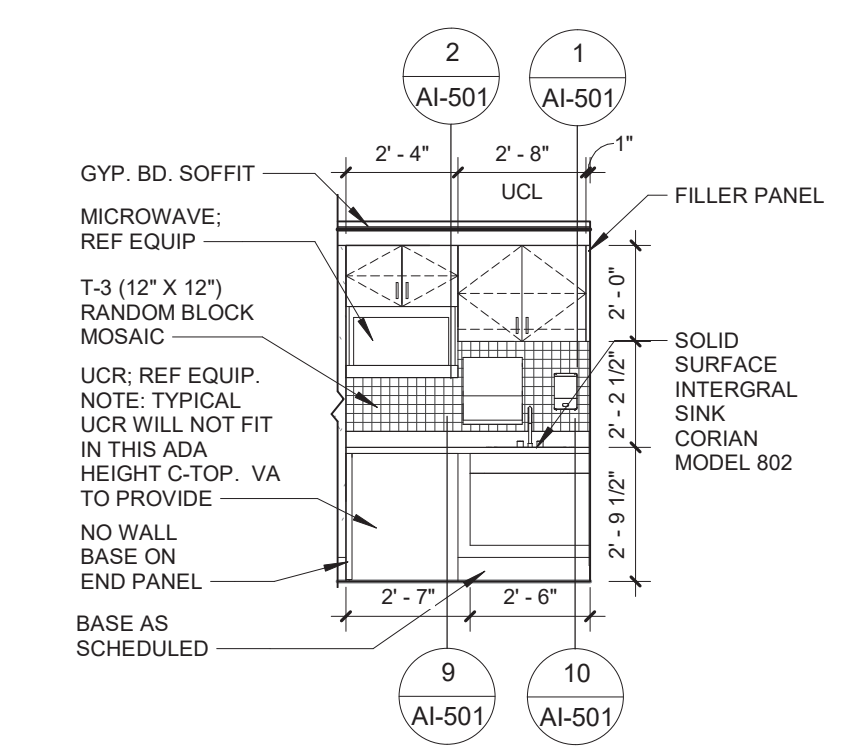
**GENERAL NOTES:**  
 1. PROVIDE FINISHED PANELS AT ALL EXPOSED SURFACES. FINISH IS PLASTIC LAMINATE UNLESS OTHERWISE NOTED.  
 2. BASE CABINETS ARE 2'-0" DEEP UNLESS OTHERWISE NOTED.  
 3. WALL CABINETS ARE EITHER 1'-0" DEEP OR 1'-3" DEEP (SEE DETAIL FOR DEPTH) UNLESS OTHERWISE NOTED.  
 4. REFER TO COLOR SCHEDULE KEY FOR PLASTIC LAMINATE COLOR SELECTIONS.  
 5. FIELD VERIFY ALL DIMENSIONS.  
 6. COORDINATE CASEWORK WITH OWNER FURNISHED EQUIPMENT LOCATED WITHIN, ON, OR ADJACENT TO CASEWORK.  
 7. REFER TO LEGEND ON SHEETS AI-201 & AI-202 TO REFERENCE EQUIPMENT NUMBERS TO ACTUAL EQUIPMENT.  
 8. CASEWORK TO BE ANCHORED TO WALL AND FLOOR.  
 9. DIMENSIONS ARE FROM FACE OF GYP TO FACE OF GYP.  
 10. ABBREVIATIONS:  
 UCL = UNDER CABINET LIGHTING  
 UCB = UNDER COUNTER BRACKET  
 UCR = UNDER COUNTER REFRIGERATOR  
 RVS = RIGID VINYL SHEET  
 11. APPLY COLORED CAULK TO MATCH ADJACENT SURFACE BETWEEN 2 JOINTS. ONE JOINT BETWEEN TOP OF BACKSPLASH AND WALL, A SECOND JOINT BETWEEN COUNTERTOP AND BOTTOM OF BACKSPLASH. APPLY CLEAR SILICONE CAULKING OVER THE COLORED CAULK IN BOTH JOINT AREAS.  
 12. COUNTERTOP SUPPORT BRACKETS SHALL SPAN A MAXIMUM OF 36" O.C. PRIME AND PAINT BRACKETS TO MATCH ADJACENT WALL SURFACE.  
 13. G.C. TO INSTALL ALL TOILET ACCESSORIES ACCORDING TO ADA AND ANSI REGULATIONS.  
**MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES AND PATTERNS. PRODUCTS OF OTHER MANUFACTURERS EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS WILL BE ACCEPTABLE UPON APPROVAL IN WRITING BY CONTRACTING OFFICER FOR FINISH REQUIREMENTS.**  
**\*THIS NOTE APPLIES TO ALL SUCH INSTANCES IN THE DRAWINGS AND SPECIFICATIONS FOR THE PROJECT.**



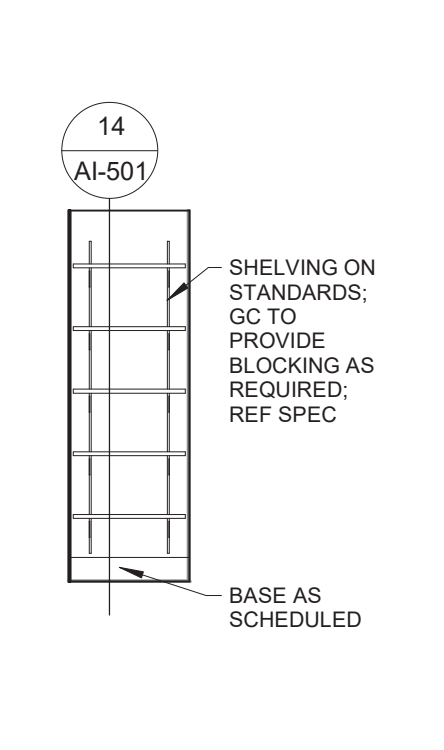
0 TYPICAL CASEWORK ELEVATION  
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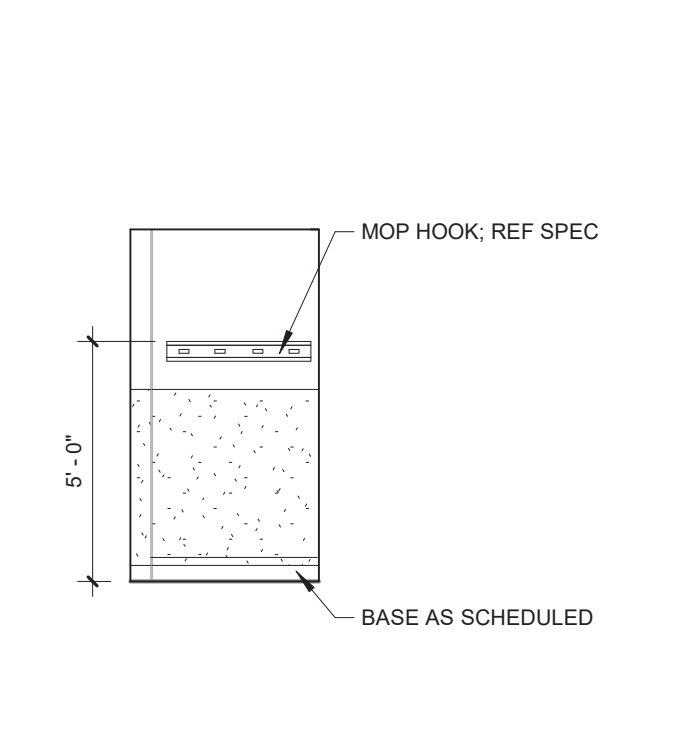
1 001 CUBICLES - S  
 1/4" = 1'-0"



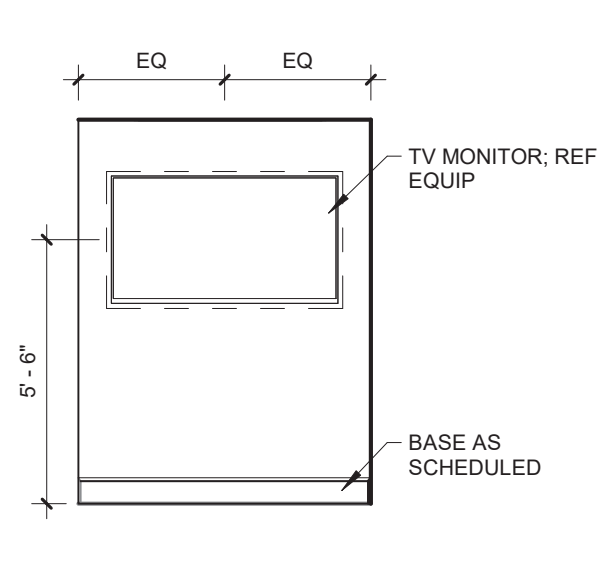
2 007 HALL - W  
 1/4" = 1'-0"



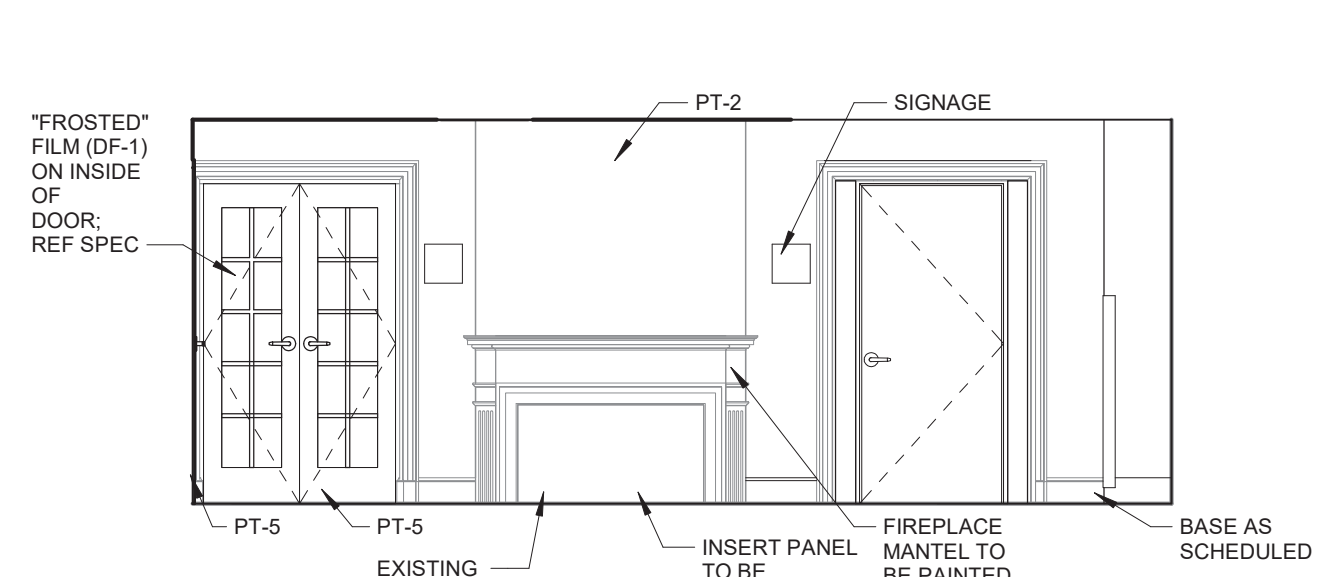
3 007A STORAGE - E  
 1/4" = 1'-0"



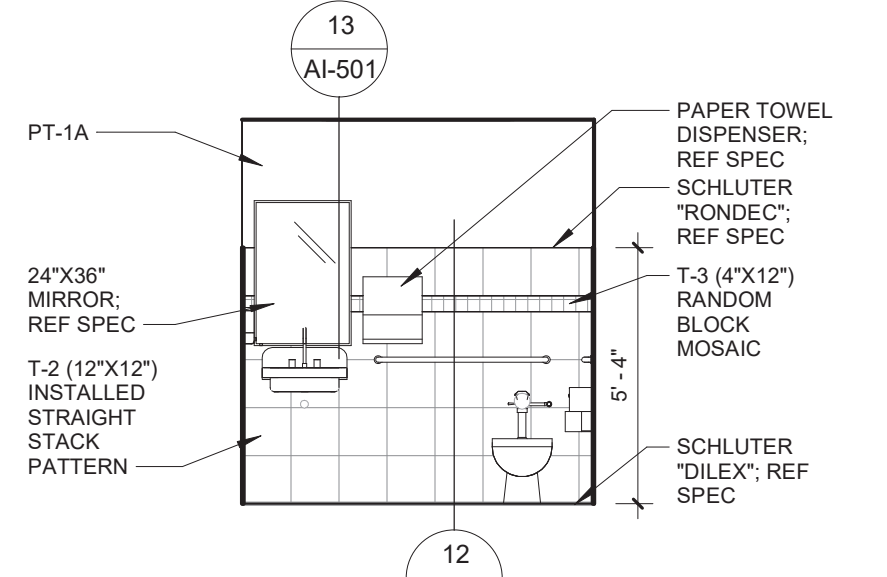
4 010 HSKP - S  
 1/4" = 1'-0"



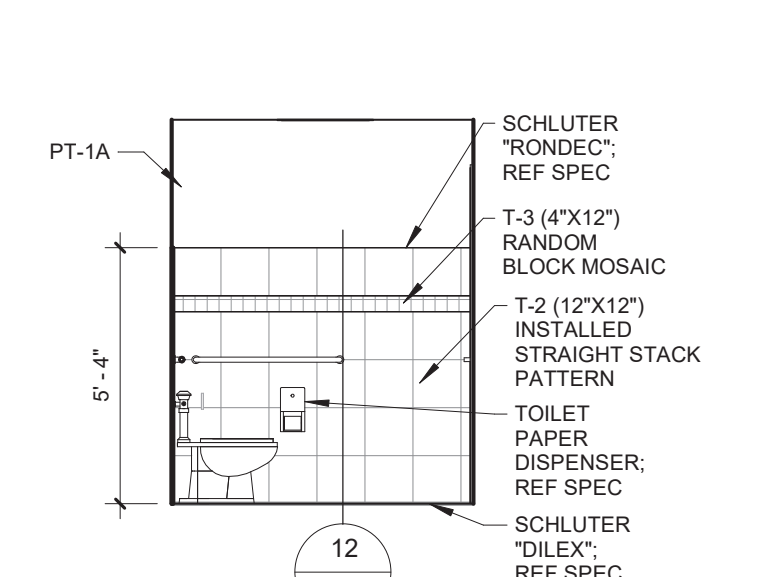
5 115 CONSULT #1 - E  
 1/4" = 1'-0"



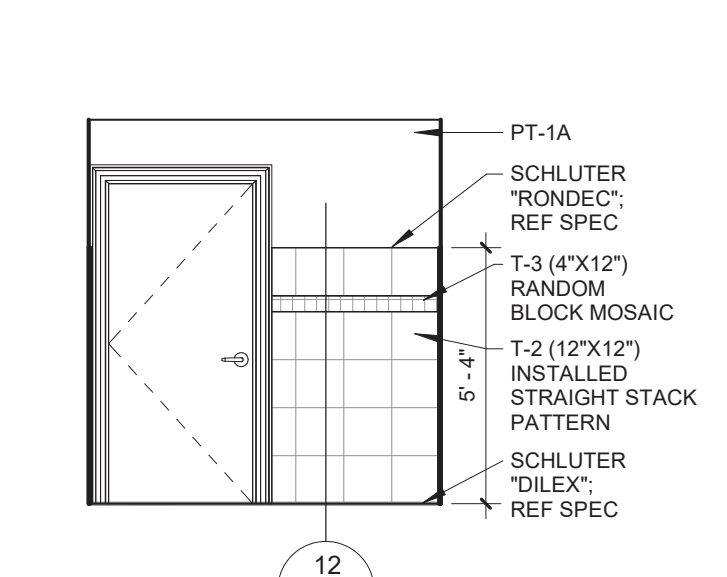
6 103 HALL - S  
 1/4" = 1'-0"



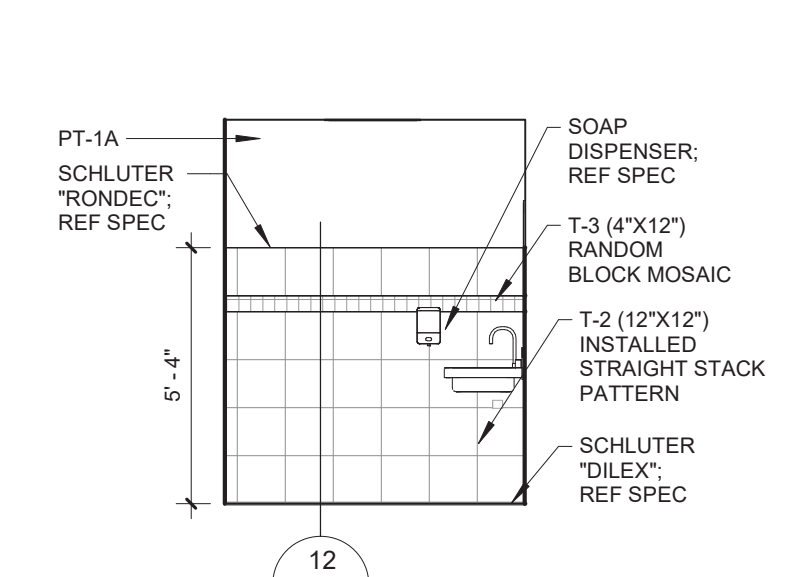
7 105 W. TOILET - N  
 1/4" = 1'-0"



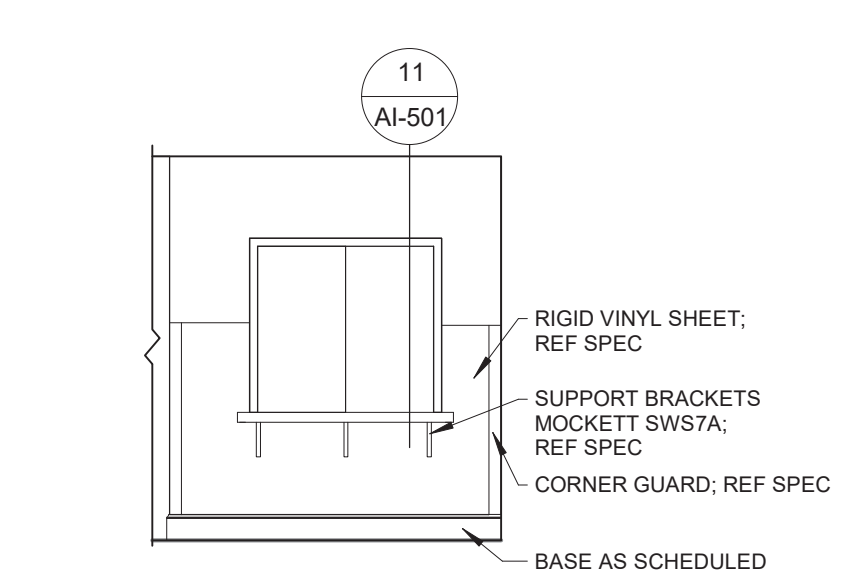
8 105 W. TOILET - E  
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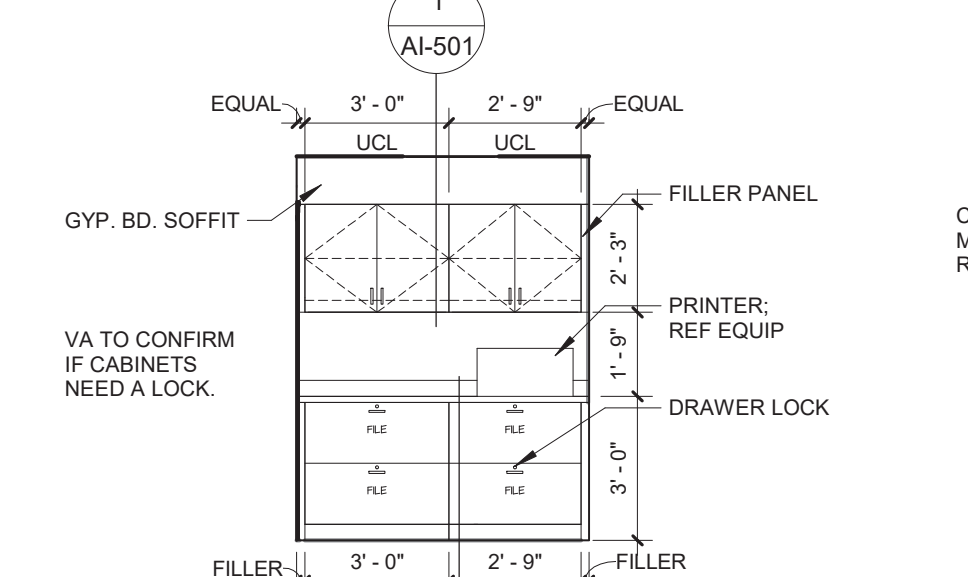
9 105 W. TOILET - S  
 1/4" = 1'-0"



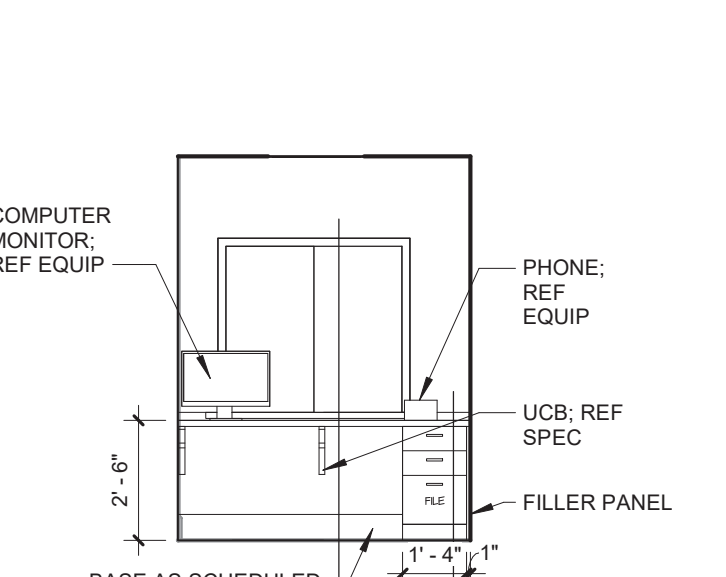
10 105 W. TOILET - W  
 1/4" = 1'-0"



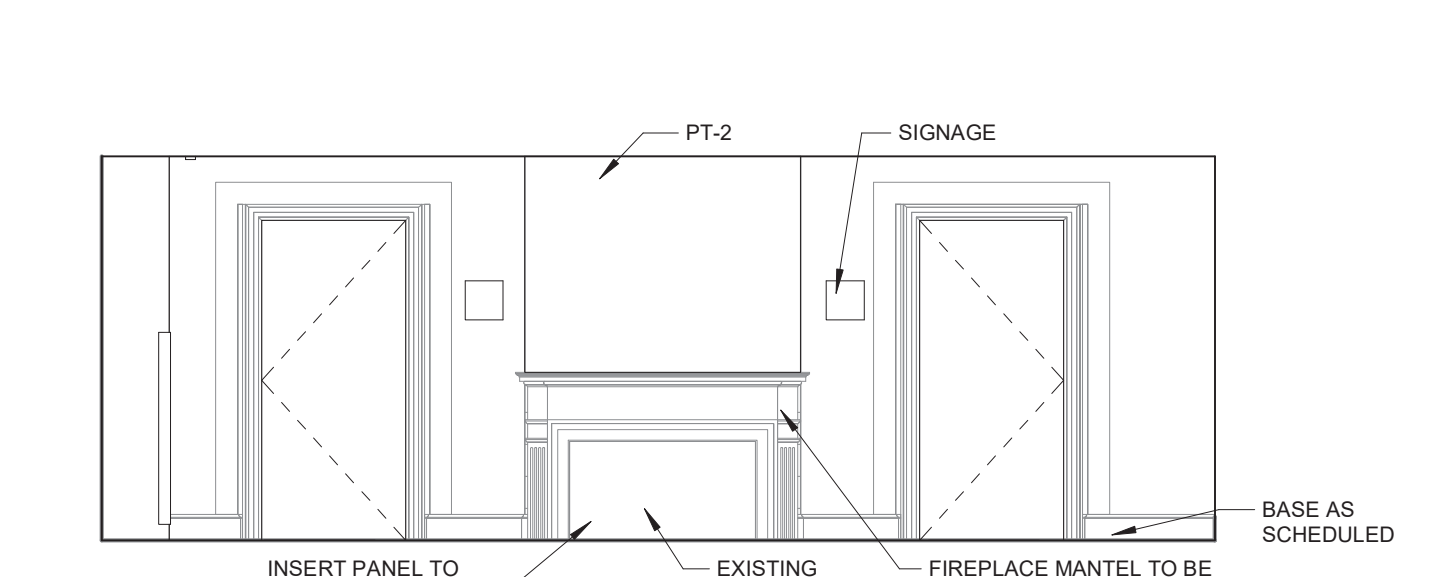
11 110 WAITING - E  
 1/4" = 1'-0"



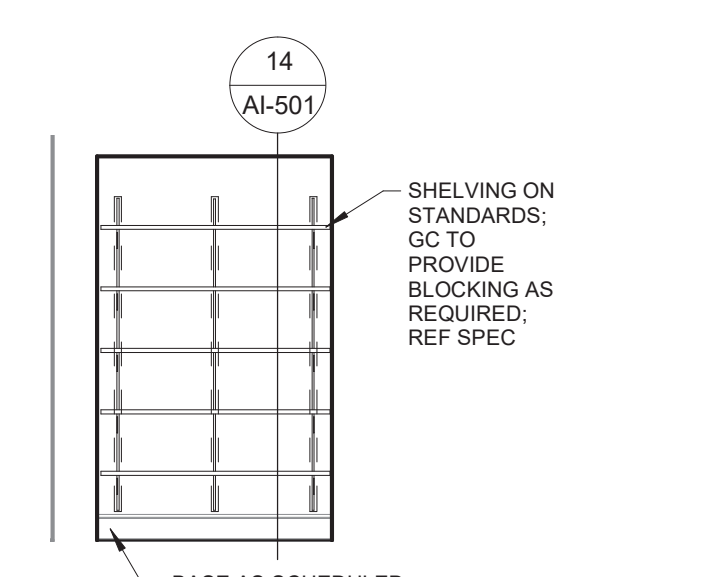
12 111 RECEPTION - E  
 1/4" = 1'-0"



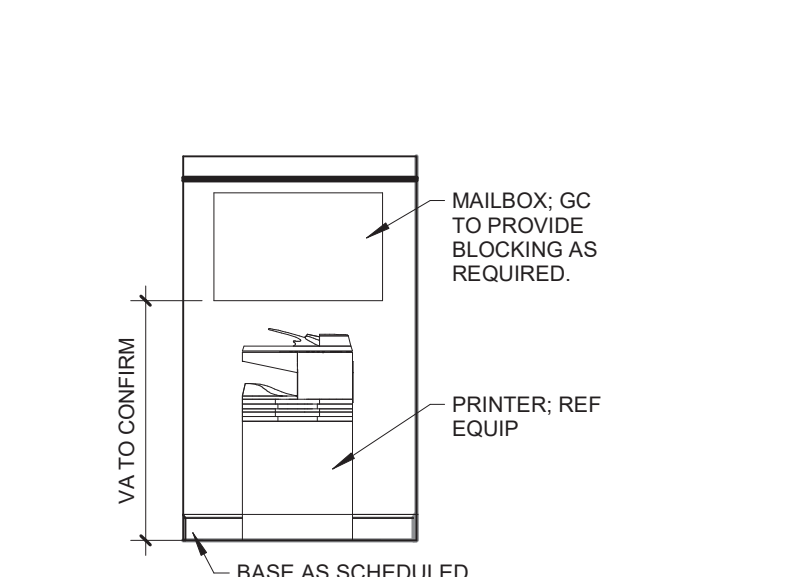
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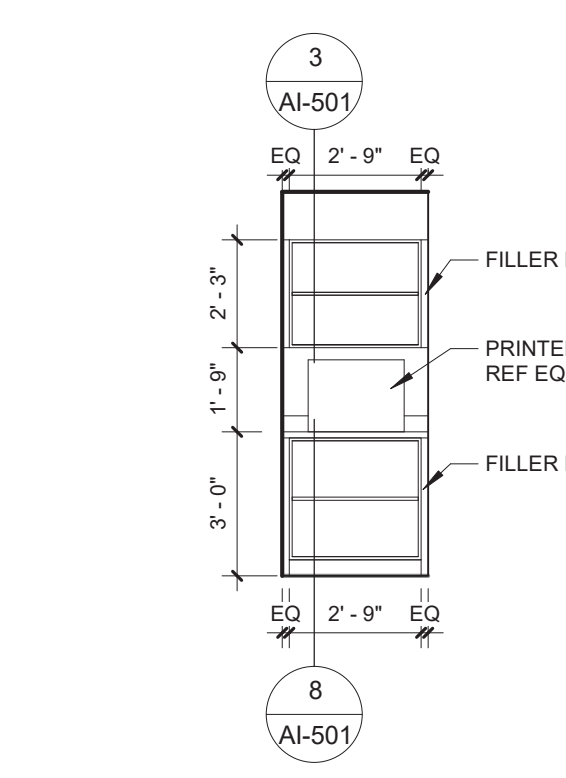
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 1/4" = 1'-0"



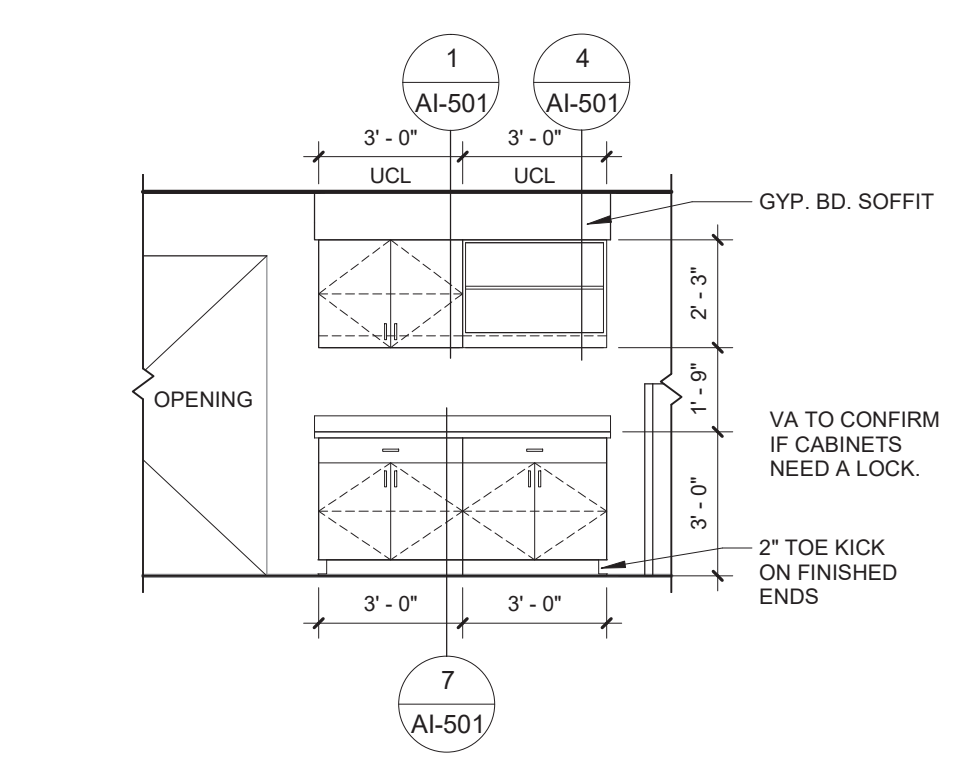
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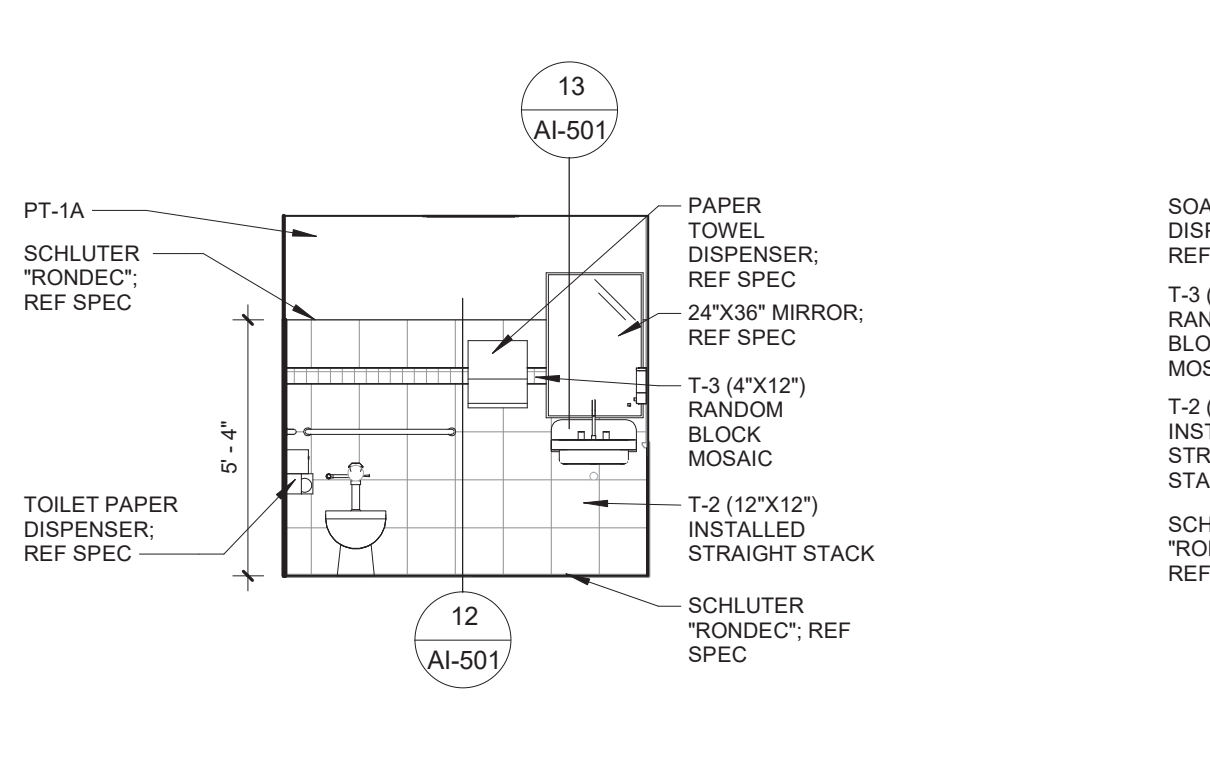
16 127 COPIER - E  
 1/4" = 1'-0"



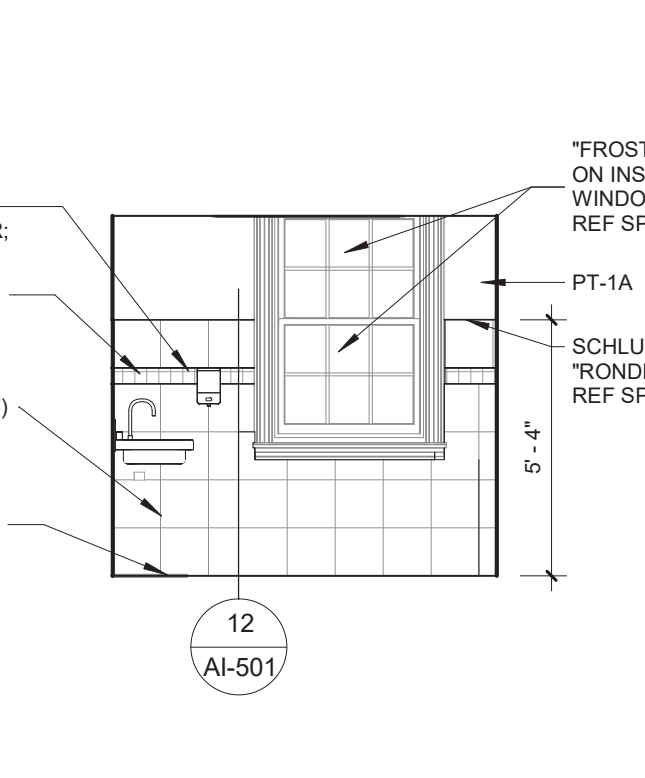
17 201A COPIER - S  
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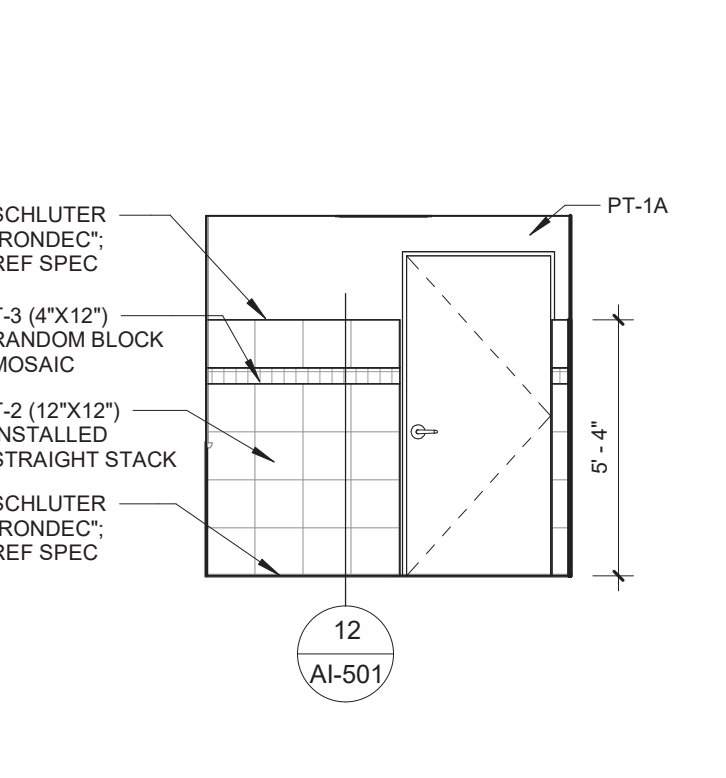
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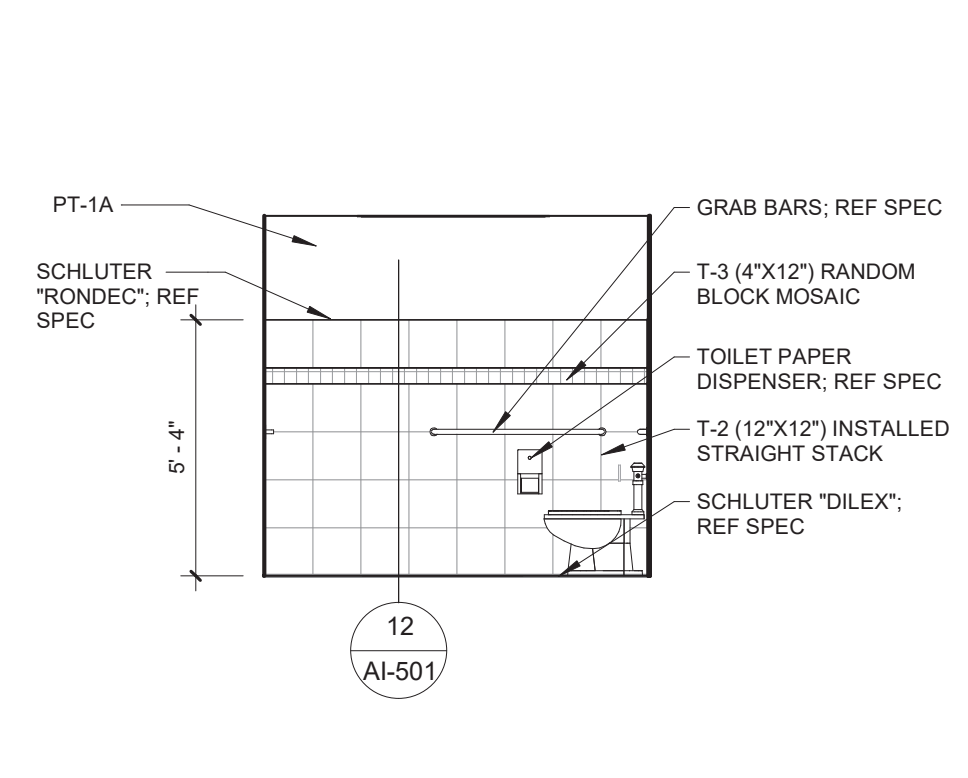
19 206 UNI-SEX - N  
 1/4" = 1'-0"



20 206 UNI-SEX - E  
 1/4" = 1'-0"



21 206 UNI-SEX - S  
 1/4" = 1'-0"



22 206 UNI-SEX - W  
 1/4" = 1'-0"

Revisions:	Date

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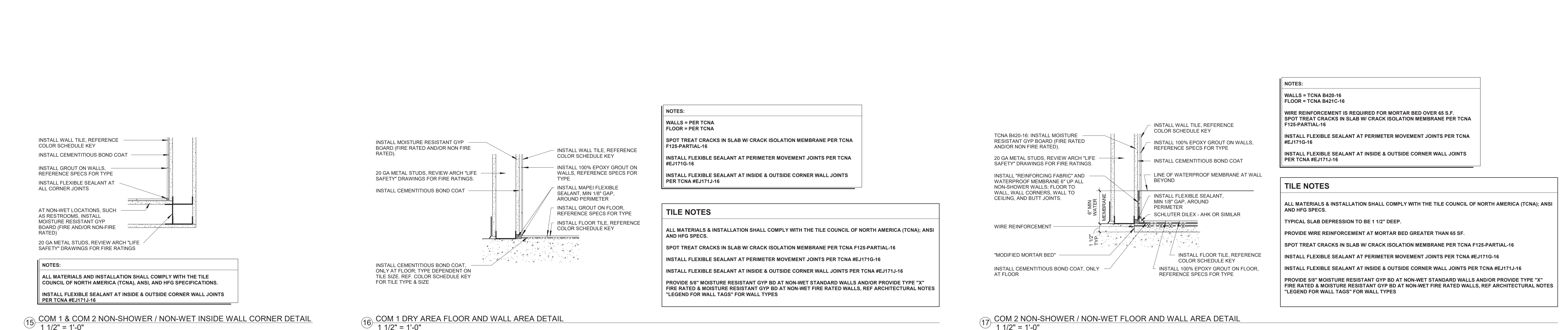
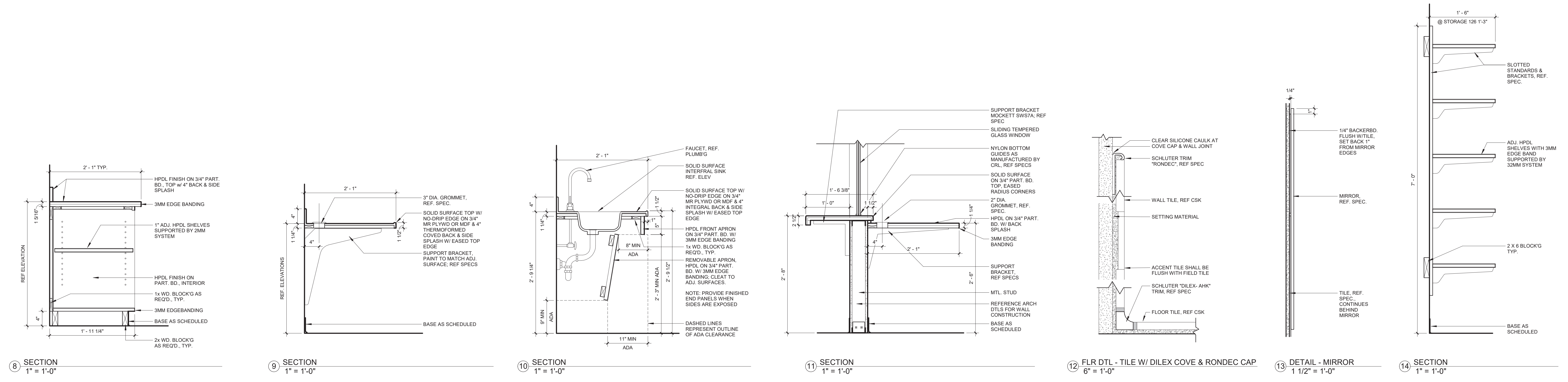
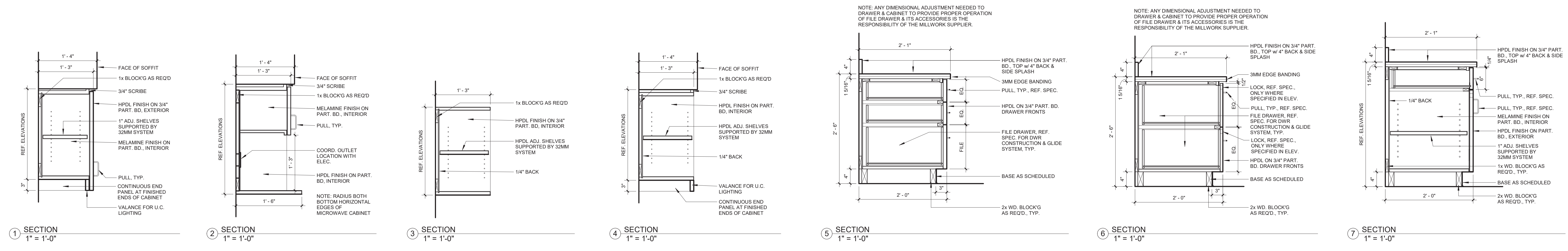
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Drawing Title  
**INTERIOR ELEVATIONS**  
 Approved: Project Director

Project Title  
 RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
 Contract No.: VA255-17-D-0080  
 Task Order No.: 36C25518N1024  
 Obligation No.: 589-C81081  
 Location  
**Wichita, Kansas**  
 Date  
**11/19/18**  
 Checked  
 Drawn  
**AI-301**  
 Dwg.

Office of  
 Construction  
 and Facilities  
 Management





**NOTES:**  
 WALLS = PER TCNA FLOOR = PER TCNA  
 SPOT TREAT CRACKS IN SLAB W/ CRACK ISOLATION MEMBRANE PER TCNA F125-PARTIAL-16  
 INSTALL FLEXIBLE SEALANT AT PERIMETER MOVEMENT JOINTS PER TCNA #EJ171G-16  
 INSTALL FLEXIBLE SEALANT AT INSIDE & OUTSIDE CORNER WALL JOINTS PER TCNA #EJ171J-16

**TILE NOTES**  
 ALL MATERIALS & INSTALLATION SHALL COMPLY WITH THE TILE COUNCIL OF NORTH AMERICA (TCNA), ANSI AND HFG SPECS.  
 SPOT TREAT CRACKS IN SLAB W/ CRACK ISOLATION MEMBRANE PER TCNA F125-PARTIAL-16  
 INSTALL FLEXIBLE SEALANT AT PERIMETER MOVEMENT JOINTS PER TCNA #EJ171G-16  
 INSTALL FLEXIBLE SEALANT AT INSIDE & OUTSIDE CORNER WALL JOINTS PER TCNA #EJ171J-16  
 PROVIDE 5/8" MOISTURE RESISTANT GYP BD AT NON-WET STANDARD WALLS AND/OR PROVIDE TYPE "X" FIRE RATED & MOISTURE RESISTANT GYP BD AT NON-WET FIRE RATED WALLS, REF ARCHITECTURAL NOTES "LEGEND FOR WALL TAGS" FOR WALL TYPES

**NOTES:**  
 WALLS = TCNA B208-16 FLOOR = TCNA B421C-16  
 WIRE REINFORCEMENT IS REQUIRED FOR MORTAR BED OVER 65 S.F.  
 SPOT TREAT CRACKS IN SLAB W/ CRACK ISOLATION MEMBRANE PER TCNA F125-PARTIAL-16  
 INSTALL FLEXIBLE SEALANT AT PERIMETER MOVEMENT JOINTS PER TCNA #EJ171G-16  
 INSTALL FLEXIBLE SEALANT AT INSIDE & OUTSIDE CORNER WALL JOINTS PER TCNA #EJ171J-16

**TILE NOTES**  
 ALL MATERIALS & INSTALLATION SHALL COMPLY WITH THE TILE COUNCIL OF NORTH AMERICA (TCNA), ANSI AND HFG SPECS.  
 TYPICAL SLAB DEPRESSION TO BE 1 1/2" DEEP.  
 PROVIDE WIRE REINFORCEMENT AT MORTAR BED GREATER THAN 65 SF  
 SPOT TREAT CRACKS IN SLAB W/ CRACK ISOLATION MEMBRANE PER TCNA F125-PARTIAL-16  
 INSTALL FLEXIBLE SEALANT AT PERIMETER MOVEMENT JOINTS PER TCNA #EJ171G-16  
 INSTALL FLEXIBLE SEALANT AT INSIDE & OUTSIDE CORNER WALL JOINTS PER TCNA #EJ171J-16  
 PROVIDE 5/8" MOISTURE RESISTANT GYP BD AT NON-WET STANDARD WALLS AND/OR PROVIDE TYPE "X" FIRE RATED & MOISTURE RESISTANT GYP BD AT NON-WET FIRE RATED WALLS, REF ARCHITECTURAL NOTES "LEGEND FOR WALL TAGS" FOR WALL TYPES

**IMPORTANT NOTE:** FOR ALL BASE CABINETS (REFER TO SPECS FOR MORE DETAILS): APPLY COLORED CAULK TO MATCH ADJACENT SURFACE BETWEEN 2 JOINTS. ONE JOINT BETWEEN TOP OF BACKSPLASH AND WALL AND A SECOND JOINT BETWEEN COUNTERTOP AND BOTTOM OF BACKSPLASH. THEN APPLY CLEAR SILICONE CAULKING OVER THE COLORED CAULK IN BOTH JOINT AREAS.

MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES AND PATTERNS. PRODUCTS OF OTHER MANUFACTURERS EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS WILL BE ACCEPTABLE UPON APPROVAL IN WRITING BY CONTRACTING OFFICER FOR FINISH REQUIREMENTS.  
 -THIS NOTE APPLIES TO ALL SUCH INSTANCES IN THE DRAWINGS AND SPECIFICATIONS FOR THE PROJECT.

three eighths inch = one foot  
 one eighth inch = one foot  
 one quarter inch = one foot  
 one half inch = one foot  
 three quarters inch = one foot  
 one inch = one foot  
 one and one eighth inch = one foot  
 one and one quarter inch = one foot  
 one and one half inch = one foot  
 one and three quarters inch = one foot  
 two inches = one foot  
 two and one eighth inch = one foot  
 two and one quarter inch = one foot  
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 three and three quarters inch = one foot  
 four inches = one foot  
 four and one eighth inch = one foot  
 four and one quarter inch = one foot  
 four and one half inch = one foot  
 four and three quarters inch = one foot  
 five inches = one foot  
 five and one eighth inch = one foot  
 five and one quarter inch = one foot  
 five and one half inch = one foot  
 five and three quarters inch = one foot  
 six inches = one foot  
 six and one eighth inch = one foot  
 six and one quarter inch = one foot  
 six and one half inch = one foot  
 six and three quarters inch = one foot  
 seven inches = one foot  
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 seven and one half inch = one foot  
 seven and three quarters inch = one foot  
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 nine inches = one foot  
 nine and one eighth inch = one foot  
 nine and one quarter inch = one foot  
 nine and one half inch = one foot  
 nine and three quarters inch = one foot  
 ten inches = one foot

<b>CONSULTANTS:</b>  <b>PEC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 S. TOPEKA WICHITA, KANSAS 67202 316.262.2891		<b>SEAL:</b> 		<b>ARCHITECT/ENGINEERS:</b>  <b>m:HFG ARCHITECTURE</b> 117 PIERCE ST., SUITE 110 SIOUX CITY, IOWA 51101 712.292.4014 142 N. MOSLEY ST. WICHITA, KANSAS 67202 316.262.2292		Drawing Title <b>MILLWORK SECTION DETAILS</b> Approved: Project Director		Project Title <b>RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7</b> Contract No.: VA255-17-D-0080 Task Order No.: 36C2518N1024 Obligation No.: 589-C81081		Project Number <b>589A7-18-301</b> Building Number Drawing Number <b>AI-501</b> Dwg.		Location <b>Wichita, Kansas</b> Date <b>11/19/18</b> Checked Drawn		Office of Construction and Facilities Management 	
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DESIGN CRITERIA

- 1. BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION, INCLUDING LOCAL SUPPLEMENTS. THE STRUCTURE IS CLASSIFIED AS A RISK CATEGORY II FACILITY.
2. DEAD AND LIVE LOADS: LOCATION UNIFORM LIVE LOAD CONCENTRATED LIVE LOAD TOTAL DEAD LOAD\*
3. SNOW LOADS: GROUND SNOW LOAD: 15 PSF
4. WIND: ULTIMATE DESIGN WIND SPEED, Vult: 115 MPH (3 SECOND GUST)
5. SEISMIC: SITE CLASS: D
6. VIBRATION: 6.A. THIS STRUCTURE HAS NOT BEEN ANALYZED FOR VIBRATION CAUSED BY FOOTFALL, EQUIPMENT, ETC.

DELEGATED ENGINEERING OF STRUCTURAL COMPONENTS & SYSTEMS

- 1. ALL STRUCTURAL COMPONENTS & SYSTEMS SPECIFIED TO BE DELEGATED SHALL BE DESIGNED AND SEALED BY A SPECIALTY STRUCTURAL ENGINEER (SSE) AND SHALL MEET THE GUIDELINES PUBLISHED BY THE COUNCIL OF AMERICAN STRUCTURAL ENGINEERS (CASE) FOR DELEGATED SPECIALTY STRUCTURAL ENGINEERING.
2. REFERENCE THE GENERAL NOTES & DRAWINGS FOR BUILDING CODE, SERVICE CRITERIA, AND DESIGN LOADS.
3. SUBMITTALS FOR DELEGATED COMPONENTS & SYSTEMS SHALL INCLUDE THE FOLLOWING:
3.A. A FULL DESIGN ANALYSIS, INCLUDING CALCULATIONS FOR GRAVITY AND LATERAL LOADS, WITH A SEALED COVER SHEET IDENTIFYING THE PROJECT NAME AND ADDRESS.
3.B. THE SSE THAT SEALED THE CALCULATIONS SHALL ALSO SEAL THE FABRICATION, PLACING, AND ERECTION PLANS. EACH PLAN SHALL IDENTIFY THE PROJECT NAME AND ADDRESS.
3.C. IF THE SSE THAT SEALED THE CALCULATIONS AND PLANS IS AN EMPLOYEE OF A COMPANY, THE COMPANY'S CERTIFICATE OF AUTHORIZATION NUMBER SHALL BE INCLUDED ON THE SUBMITTALS.
3.D. THE COMPANY THAT EMPLOYS THE SSE SHALL PROVIDE AN INSURANCE CERTIFICATE FOR PROFESSIONAL LIABILITY INSURANCE WITH AN AGGREGATE AMOUNT OF NO LESS THAN TWO MILLION DOLLARS (\$2,000,000).
3.E. THE SSE THAT SEALED THE PLANS SHALL INCORPORATE A WRITTEN STATEMENT THAT THE CONTRACT DOCUMENTS' CRITERIA HAVE BEEN INCORPORATED INTO THE DESIGN.
4. THE CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR QUANTITIES AND DIMENSIONS AND VERIFY THAT THE ABOVE INFORMATION HAS BEEN INCLUDED IN THE SUBMITTAL.
5. NO SUBMITTAL WILL BE REVIEWED UNLESS ALL OF THE ABOVE INFORMATION IS INCLUDED.
6. FOUNDATION SHORING SYSTEMS
6.A. THE GENERAL CONTRACTOR WILL CONTRACT WITH A FOUNDATION INSTALLATION COMPANY THAT IS LICENSED AND/OR AUTHORIZED TO INSTALL THE FOUNDATION SHORING SYSTEM.
6.B. THE FOUNDATION INSTALLATION COMPANY SHALL ENGAGE THE SERVICES OF A SPECIALTY ENGINEERING COMPANY (SEC) THAT IS ALSO LICENSED AND/OR AUTHORIZED TO DESIGN THE FOUNDATION SHORING SYSTEM.
6.C. THE SEC SHALL ENGAGE THE SERVICES OF A GEOTECHNICAL FIRM TO PROVIDE AN INDEPENDENT INVESTIGATION OF THE PROJECT THAT PROVIDES ANY AND ALL INFORMATION NEEDED BY THE SEC TO FULLY ANALYZE THE FOUNDATION TO MEET THE DESIGN CRITERIA.
6.D. THE SEC SHALL INSPECT THE INSTALLATION BY THE SHORING INSTALLATION COMPANY TO THE EXTENT NECESSARY FOR THE SEC TO BE CONFIDENT THAT NO FLAWS EXIST IN THE INSTALLATION.
6.E. THE SEC SHALL TEST THE INSTALLATION AS NECESSARY TO VERIFY THE PERFORMANCE OF THE FOUNDATION SYSTEM.

- 6.F. AFTER COMPLETION, THE SEC SHALL PROVIDE A CERTIFICATION STATING I, \_\_\_\_\_ THE SPECIALTY STRUCTURAL ENGINEER OF THE SHORING SYSTEM, CERTIFY THAT I HAVE COMPLETED THE DESIGN IN ACCORDANCE WITH THE STANDARD OF CARE, ENGAGED A LICENSED GEOTECHNICAL ENGINEER TO PROVIDE ALL NECESSARY DATA TO COMPLETE MY DESIGN, AND OBSERVED THE FOUNDATION SYSTEM INSTALLATION TO THE EXTENT NECESSARY FOR ME TO BE CONFIDENT THAT THERE ARE NOT FLAWS THAT WOULD AFFECT THE PERFORMANCE OF THE SYSTEM.
7. PRE-FABRICATED WOOD TRUSS SYSTEMS
7.A. ALL TRUSS COMPONENTS SHALL BE SYMMETRICAL ABOUT THE VERTICAL AXIS AND BE CONNECTED CONCENTRICALLY AT EACH JOINT.
7.B. LIGHT GAUGE CONNECTOR PLATES SHALL BE GALVANIZED, A MINIMUM OF 20 GAUGE THICK (0.033"), AND A MINIMUM OF 15 SQUARE INCHES, WITH THE LEAST DIMENSION A MINIMUM OF 3".
7.C. CONNECTIONS SHALL HAVE AT LEAST 2 CONNECTORS (ONE EACH SIDE OF MEMBER).
7.D. DESIGN AND PROVIDE BOTH TEMPORARY AND PERMANENT BRACING REQUIRED FOR STABILITY.
7.E. PROVIDE ALL TRUSS TO TRUSS CONNECTIONS.
7.F. PROVIDE REACTIONS AND CONNECTIONS AT EACH SUPPORT.
7.G. THE BOTTOM CHORD OF ROOF TRUSSES SHALL BE THE DESIGNED FOR 10 PSF SUPERIMPOSED LOAD.
7.H. SUBMITTED CALCULATIONS SHALL INDICATE ALL LOADS AND LOAD COMBINATIONS USED IN THE ANALYSIS.

SOIL PREPARATION AND FOUNDATIONS

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENGAGE A LICENSED GEOTECHNICAL ENGINEER TO PERFORM A SUBSURFACE GEOTECHNICAL INVESTIGATION. THE RESULTS OF THE GEOTECHNICAL INVESTIGATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.
1.A. SUFFICIENT SOIL BORINGS SHALL BE MADE TO VERIFY THAT THE PRESUMPTIVE SOIL BEARING PRESSURE OF 1,500 PSF IN UNDISTURBED SOILS AND ENGINEERED FILLS USED FOR DESIGN IS SAFE.
1.B. LABORATORY TESTS SHALL BE MADE AS NECESSARY TO VERIFY THAT THE TOTAL SETTLEMENT IS LESS THAN 1" AND THE DIFFERENTIAL SETTLEMENT IS LESS THAN 1/2", NO SHRINK/SWELL POTENTIAL EXISTS, AND THE DEPTH IS ADEQUATE FOR THE SITE.

CONCRETE

- 1. ALL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 318 AND THE BUILDING CODE, AND IN CONFORMANCE WITH THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE."
2. THE CONCRETE REQUIREMENTS ARE:
2.A. CEMENT SHALL BE TYPE I OR II CONFORMING TO ASTM C150. FLY ASH CONFORMING TO ASTM C618 TYPE C OR F MAY BE USED TO REPLACE A MAXIMUM OF 20% OF THE CEMENT BY WEIGHT.
2.B. FINE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C33.
2.C. COARSE AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33, GRADE 67 OR LARGER. COARSE AGGREGATES SHALL BE NO LESS THAN 50% OF THE TOTAL AGGREGATE BY WEIGHT, UNLESS APPROVED BY THE ENGINEER PRIOR TO MIX DESIGN SUBMITTAL.
2.D. MIX REQUIREMENTS ARE:
LOCATION MINIMUM F'c (PSI) MINIMUM CEM.(PCY) MAX. W/C RATIO AIR CONTENT SLUMP INCHES§
EXTERIOR/FNDN. WALL 4000 470 0.45 5%±1% 2-5
FOUNDATIONS 4000 470 0.45 5%±1% 2-5
INTERIOR SLAB 4000 564 0.42 3% MAX. 2-5
§PRIOR TO THE ADDITION OF WATER REDUCING ADMIXTURES, IF APPROVED BY ENGINEER, AFTER ADDITION THE SLUMP MAY NOT EXCEED 8".
F'c SPECIFIED IS BASED ON THE 28 DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH ACI 318 ACCEPTANCE CRITERIA.
3. ADMIXTURES, HARDENERS, & CURING COMPOUNDS
3.A. ALL CONCRETE ADMIXTURES SHALL, WHEN MIXED INTO CONCRETE, BE NON-CHLORIDE AND NON-CHLORIDE FORMING.
3.B. ALL ADMIXTURES MUST CONFORM TO ASTM C-494 AND C-260.
3.C. CONCRETE CURING COMPOUND AND SEALERS SHALL MEET ASTM C-309 TYPE 1 OR 1D.
3.D. USE OF "SELF CONSOLIDATING" CONCRETE MUST BE SUBMITTED FOR APPROVAL WITH THE CONCRETE MIX DESIGN.
3.E. CONCRETE PENETRATING HARDENER SEALERS SHALL BE USED ON ALL EXPOSED CONCRETE FLOORS UNLESS OTHER COATINGS ARE REQUIRED BY THE ARCHITECT.
4. MISCELLANEOUS CONCRETE DETAILS:
4.A. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" INSIDE THE FORMS OR TOOLED TO 3/4" RADIUS UNLESS NOTED OTHERWISE.
4.B. SLABS ON GRADE SHALL HAVE CONSTRUCTION JOINTS AND/OR CONTROL JOINTS (SAWN JOINTS) TO DIVIDE THE SLAB INTO PANELS, NOT TO EXCEED 256 SQUARE FEET. THE LONG DIMENSION SHALL NOT EXCEED THE SHORT DIMENSION BY MORE THAN 20%. CONTRACTOR TO SUBMIT PROPOSED LOCATIONS FOR APPROVAL.
4.C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMING AND SHORING.
4.D. NO ALUMINUM SHALL BE EMBEDDED IN CONCRETE.
4.E. NO CONDUIT MAY BE EMBEDDED IN SLABS ON METAL DECK OR TOPPING SLABS ON PRECAST CONCRETE UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE ON STRUCTURAL PLANS.

CONCRETE REINFORCING

- 1. MATERIALS
ASTM GRADE
PLATE & ANGLE: A36 ---
REINFORCING STEEL: A615 60
WELDABLE REINFORCING STEEL: A706 60
WELDED WIRE FABRIC (WWF): A185 60 (MIN.)
DEFORMED BAR ANCHORS: A706 60
ANCHOR RODS (BOLTS): F1554 36
2. DETAILS:
2.A. WELDING OF REINFORCING STEEL IS PROHIBITED UNLESS NOTED OTHERWISE.
2.B. WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS.
2.C. SHOP DRAWINGS SHALL BE SUBMITTED WITH REINFORCING STEEL IN ACCORDANCE WITH ACI 315.
2.D. WHEN MECHANICAL SPLICES ARE INDICATED ON THE PLANS, THE SPLICE SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING STEEL.
3. PLACEMENT:
3.A. ALL REINFORCING AND EMBEDMENTS SHALL BE SUPPORTED ON CHAIRS/BOLSTERS TO THE DESIGN DIMENSIONS.
3.B. MAINTAIN ACI CLEAR COVER ON REINFORCING AS LISTED BELOW UNLESS NOTED OTHERWISE.
3.C. PROVIDE CORNER BARS OF THE SAME SIZE AND SPACING AS ADJACENT REINFORCING.
3.D. OPENINGS IN WALLS OR SLABS SHALL BE REINFORCED PER DETAIL.
3.E. REINFORCING STEEL SHALL BE LAPPED PER LAP TABLE.
3.F. WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL SQUARE PLUS 2".

STRUCTURAL WOOD

- 1. ALL WOOD STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).
2. THIS STRUCTURE IS DESIGNED AS CONVENTIONAL FIELD FRAMED CONSTRUCTION.
3. MANUFACTURED WOOD PRODUCTS SHALL BE BY I-LEVEL UNLESS NOTED OTHERWISE.
4. THE DESIGN OF THE STRUCTURE IS BASED UPON THE USE OF THE FOLLOWING WOOD PRODUCTS:
USE WOOD TYPE GRADE Fc (PSI) Fm (PSI) E (PSI)
JOISTS (2 X 8) SOUTHERN PINE #2 925 1,350 1,400,000
(2 X 10) SOUTHERN PINE #2 800 1,300 1,400,000
(2 X 12) SOUTHERN PINE #2 750 1,250 1,400,000
STUDS (2 X 4) SPRUCE-PINE-FIR #1/#2 875 1,150 1,400,000
LSL TIMBERSTRAND --- 2,325 2,170 1,550,000
ALL MEMBERS SHALL BE SURFACED DRY AND HAVE A MAXIMUM MOISTURE CONTENT OF 19%. STRESS INCREASE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NDS.
4.A. ROOF SHEATHING SHALL BE 1/2" APA RATED PLYWOOD OR ORIENTED STRAND BOARD, 32/16 SPAN RATING, EXPOSURE 1, LAID IN A CONTROLLED RANDOM STAGGERED PATTERN, WITH EDGE CLIPS BETWEEN SUPPORTS, LONG PANEL DIMENSION PERPENDICULAR TO THE FRAMING MEMBERS, AND CONTINUOUS OVER A MINIMUM OF THREE SUPPORTS.
4.B. ALL WOOD PRODUCTS IN DIRECT CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED WITH CCA-C, ACQ, CBA-A, CA-B OR SBX AND SHALL NOT BE IN CONTACT WITH SOIL.
5. CONNECTIONS SHALL MEET THE FOLLOWING REQUIREMENTS:
5.A. ALL SILL PLATE ANCHOR RODS REQUIRE 2" X 2" SQUARE PLATE WASHERS BE INSTALLED BETWEEN THE HEAD OR NUT AND THE WOOD MEMBER.
5.B. ALL BOLTS SHALL BE ASTM A307. WASHERS WITH AN OUTSIDE DIAMETER EQUAL TO AT LEAST TWICE THE BOLT DIAMETER ARE REQUIRED BETWEEN THE BOLT HEAD OR NUT AND THE WOOD SURFACE.
5.C. WOOD MEMBERS SHALL BE CONNECTED TOGETHER USING THE BUILDING CODE NAILING SCHEDULE, UNLESS NOTED OTHERWISE.

Table with 4 columns: SIZE, LENGTH, DIAMETER, HEAD. Contains specifications for various fasteners like nails and screws.

- 5.D. NAIL ROOF SHEATHING WITH 10d COMMON SCREWS AT 6" O.C. ALONG PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS.
5.E. ALL MANUFACTURED CONNECTORS SHALL BE BY SIMPSON STRONG-TIE COMPANY, INC., OR U.S.P., AND CONNECTED WITH THE FASTENERS SPECIFIED BY THE MANUFACTURER.
5.F. FASTEN MULTIPLE LAYER MANUFACTURED WOOD MEMBERS TOGETHER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE BRIDGING AT 8'-0" O.C. MAXIMUM FOR JOISTS AND RAFTERS USING SOLID BLOCKING UNLESS RIGID CEILING IS FASTENED DIRECTLY TO THE JOIST OR RAFTER.
7. STAGGER SPLICES OF DOUBLE TOP PLATES 4'-0" MINIMUM.
8. WOOD HEADERS AND LINTELS SHALL BEAR ON TOP OF A SINGLE STUD AT EACH END FOR OPENINGS LESS THAN 3'-8", BEAR ON TOP OF DOUBLE STUDS FOR OPENINGS GREATER THAN 3'-8" AND LESS THAN 8'-0", AND TRIPLE STUDS FOR OPENINGS GREATER THAN 8'-0", UNLESS NOTED OTHERWISE.
9. MAINTAIN 1/4" GAP BETWEEN TRUSS BOTTOM CHORD AND DOUBLE TOP PLATE OF INTERIOR NON-LOAD BEARING PARTITION WALLS.
10. ALL FASTENERS (SCREWS, NAILS, BOLTS, ETC.) AND CONNECTORS INSTALLED IN CONTACT WITH PRESSURE TREATED LUMBER SHALL MEET THE REQUIREMENTS OF THE "COMPATIBILITY OF FASTENERS AND CONNECTORS WITH PRESSURE TREATED LUMBER" TABLE (REF. SHEET 10/S-510).

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL MEET THE LATEST "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGE," AND HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND THE LATEST EDITION OF AISC "MANUAL OF STEEL CONSTRUCTION".
2. STRUCTURAL STEEL SHALL BE NEW AND MEET THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE ON THE DRAWINGS:
TYPE ASTM GRADE
PLATES, CHANNELS, & ANGLES A36 ---
RECTANGULAR HSS SECTIONS A500 B (Fy=46 KSI)
STRUCTURAL BOLTS A325 --- (ASTM F1852)
ERECTION BOLTS A307 ---
3. ALL BOLTED CONNECTIONS SHALL BE STANDARD AISC BEARING TYPE FRAMING CONNECTIONS.
4. ALL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE PROVIDED BY THE FABRICATOR AND HIGHLIGHTED FOR THE ENGINEER OF RECORD'S REVIEW.
5. ALL WELDING SHALL BE IN ACCORDANCE WITH LATEST AWS CODE, SECTION D1.1.
6. STEEL FRAMING MEMBERS SHALL NOT BE SPLICED.
7. OPENINGS SHALL NOT BE FIELD-CUT IN THE FLANGE OR WEBS OF STEEL MEMBERS.
8. GALVANIZED STRUCTURAL STEEL SHALL CONFORM TO ASTM A123 FOR MEMBERS AND ASTM A153 FOR CONNECTION ELEMENTS.

MASONRY

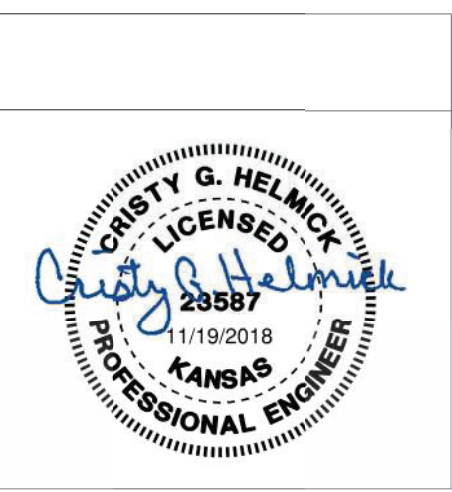
- 1. MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH THE ACI 530 AND THE BUILDING CODE USING THE ORDINARY REINFORCED METHOD.
2. MATERIALS:
2.E. ALL CONCRETE MASONRY UNITS (CMU) SHALL BE TWO-CELL, LIGHTWEIGHT AGGREGATE UNITS WITH A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON NET AREA AT 28 DAYS CONFORMING TO ASTM C90.
2.F. ALL MORTAR SHALL BE TYPE "S" CONFORMING TO ASTM C270.
2.G. THE MINIMUM COMPRESSIVE STRENGTH (fm) OF A PRISM ASSEMBLED OF CMU AND FULL MORTAR BEDDING SHALL BE 1500 PSI AT 28 DAYS ON THE NET AREA.
2.H. GROUT SHALL CONFORM TO ASTM C476 WITH 3/8" AGGREGATE WITH TYPE I CEMENT, A MAXIMUM WATER/CEMENT RATIO OF 0.65, AND A SLUMP OF 5" TO 9".
3. HORIZONTAL WALL REINFORCING:
3.A. PROVIDE CONTINUOUS HORIZONTAL REINFORCING AT THE TOP OF THE WALL AND AT A MAXIMUM OF 4'-0" ON CENTER IN KNOCK-OUT BOND BEAMS UNLESS NOTED OTHERWISE.
3.B. PROVIDE HORIZONTAL REINFORCING AT THE HEAD OF ALL OPENINGS IN A "U" SHAPED SOLID BOTTOM LINTEL BLOCK.
3.C. MINIMUM HORIZONTAL REINFORCING IN ALL LINTELS AND BOND BEAMS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
WALL THICKNESS REINFORCING
8" (2) #4

Table with 2 columns: Revisions, Date. Contains a list of project revisions.

CONSULTANTS:

Table with 2 columns: Name, Date. Lists consulting firms and their dates.

Table with 2 columns: Name, Title. Lists architects and engineers.



ARCHITECT/ENGINEERS:

ARCHITECT/ENGINEERS:
m HEG
ARCHITECTURE

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316-262-2691 www.pec1.com

Table with 2 columns: Drawing Title, GENERAL NOTES. Contains project notes and drawing information.

Table with 2 columns: Project Title, Location. Contains project details like 'RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7' and 'Wichita, Kansas'.

Table with 2 columns: Project Number, Building Number, Drawing Number. Contains project identification numbers.

Office of Construction and Facilities Management
Department of Veterans Affairs

4. VERTICAL REINFORCING:

4.A. PROVIDE VERTICAL REINFORCING (NORMAL REINFORCING) IN FULLY GROUTED CELLS, CENTERED AND HELD IN PLACE BY REINFORCING STEEL GUIDES IN ALL WALLS AS FOLLOWS, UNLESS NOTED OTHERWISE:

THICKNESS	EXTERIOR & LOAD BRG. WALLS
8"	#5 AT 32" O.C.

4.B. PROVIDE VERTICAL FULLY GROUTED REINFORCED CELLS AT EACH SIDE OF AN ISOLATION JOINT, AT INTERSECTIONS OF WALLS, EACH SIDE OF A WALL OPENING, AT EACH BEAM BEARING, AND AT THE END OF A WALL.

4.C. VERTICAL REINFORCING SHALL EXTEND CONTINUOUSLY FROM THE TOP OF THE SUPPORTING MEMBER TO THE TOP BOND BEAM. THERE SHALL BE A DOWEL, CAST INTEGRAL WITH THE SUPPORTING MEMBER, FOR EACH VERTICAL REINFORCING BAR EXCEPT AS NOTED. ALL VERTICAL REINFORCING STEEL SHALL BE HOOKED INTO TOP BOND BEAM. ALL HOOKS, STRAIGHT EMBEDMENTS AND LAPS SHALL BE PER TABLE.

5. LOCATION AND DETAILS OF CONTROL AND ISOLATION JOINTS IN MASONRY WALLS SHALL BE PER THE ARCHITECTURAL DRAWINGS. IF NOT SHOWN OR NOTED ON THE ARCHITECTURAL DRAWINGS, THE MAXIMUM SPACING OF CONTROL OR ISOLATION JOINTS SHALL BE AT A LENGTH TO HEIGHT RATIO OF 2:1 OR 30"-0" O.C., WHICHEVER IS LESS. REINFORCING IN ALL BOND BEAMS, INCLUDING THE TOP BOND BEAM, SHALL BE DISCONTINUOUS AT CONTROL AND ISOLATION JOINTS. CONTRACTOR SHALL SUBMIT A JOINT LAYOUT PLAN FOR APPROVAL PRIOR TO CONSTRUCTION.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WALL ELEVATIONS AS PART OF THE SUBMITTAL. WALL ELEVATIONS SHALL INCLUDE HORIZONTAL AND VERTICAL REINFORCING, EMBEDS, CONTROL JOINTS, OPENINGS, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL OPENING LOCATION.

7. EMBEDDED CONDUIT, PIPES OR SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETER ON CENTER OR DISPLACE MORE THAN 2% OF THE NET AREA.

8. LINTELS SUPPORTING CMU WALLS OVER OPENINGS, UNLESS NOTED OTHERWISE, SHALL BE:

OPENING WIDTH	LINTEL
< 4'-0"	8"x8" CMU "U" SHAPED BOND BEAM W/ (2) #5

CONTRACT/CONSTRUCTION DOCUMENTS

- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A FULL SET OF THE MOST RECENT REVISIONS OF EACH DOCUMENT INCLUDING ALL PLANS, SPECIFICATIONS, ADDENDA, AND SUPPLEMENTAL INSTRUCTIONS.
- THE CONTRACTOR SHALL REVIEW THE DOCUMENTS PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY MATERIALS FOR CONFLICTS. IF CONFLICTS OCCUR THE CONTRACTOR SHALL USE THE MOST STRINGENT REQUIREMENT OR REQUEST A CLARIFICATION THROUGH A REQUEST FOR INFORMATION (RFI).
- THE DOCUMENTS MAY NOT BE REPRODUCED IN WHOLE OR IN PART FOR USE ON PROJECTS OTHER THAN IDENTIFIED IN THE TITLE BLOCK. SHOULD THE CONTRACTOR USE THE DOCUMENTS AS A PORTION OF A SHOP DRAWING SUBMITTAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES RESULTING FROM ERRORS IN THE REPRODUCED DOCUMENTS.
- DETAILS LABELED TYPICAL ARE INTENDED TO REPRESENT A CONDITION THAT OCCURS AT SEVERAL LOCATIONS IN THE PLANS WHETHER OR NOT THE DETAIL IS REFERENCED.
- DO NOT SCALE THE PLANS AND DETAILS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.

CONTRACTOR'S RESPONSIBILITY

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL SUB-CONTRACTOR SUBMITTALS AND NOTING ALL DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.
- SUBSTITUTION REQUESTS SHALL BE SUBMITTED IN WRITING WITH THE COST REDUCTION AMOUNT AND THE SCHEDULE IMPACT FOR THE OWNER. A COMPARISON OF THE DATA WITH THE MATERIAL SPECIFIED INCLUDING CODE APPROVALS SHALL BE PROVIDED.
- REQUESTS FOR INFORMATION (RFI) SHALL BE SUBMITTED IN WRITING WITH COST, SCHEDULE IMPACT, AND SUGGESTED SOLUTION INCLUDED.
- DEFECTIVE WORK REPORT (DWR) SHALL BE SUBMITTED TO THE ENGINEER. THE DWR SHALL REPORT THE DEFECT AND PROPOSE A REMEDIATION OF THE DEFECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REMEDIATION OF THE DEFECT INCLUDING ENGINEERING COSTS, IF ANY.
- WHEN THE CONTRACTOR BECOMES AWARE OF WHAT MAY BE AN UNFORESEEN CONDITION THAT COULD AFFECT COST OR SCHEDULE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. AFTER REVIEW AND ENGINEER'S DETERMINATION THAT AN UNFORESEEN CONDITION EXISTS, THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST FOR APPROVAL WITH BOTH COST AND SCHEDULE IMPACT ATTACHED.
- THE CONTRACTOR'S SCHEDULE MUST PROVIDE A REASONABLE TIME ALLOWANCE FOR THE ENGINEERING REVIEW AND APPROVAL.
- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR SITE SAFETY.

CONSTRUCTION MEANS AND METHODS ISSUES

- SLAB ON GRADE AND ELEVATED SLABS ARE NOT DESIGNED TO SUPPORT CRANES, FORKLIFTS, TRUCKS, MANLIFTS, OR OTHER CONSTRUCTION RELATED EQUIPMENT UNLESS NOTED AS SUCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF CONSTRUCTION EQUIPMENT CAN BE SAFELY OPERATED ON THESE SLABS AND TO REPAIR ANY DAMAGE THE EQUIPMENT MAY CAUSE.
- THE CONSTRUCTION DOCUMENTS REPRESENT A STABLE STRUCTURE IN THE COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY BRACING AND/OR SHORES TO SAFELY CONSTRUCT THE BUILDING AND PREVENT DAMAGE DURING CONSTRUCTION.
- WHEN A PIECE OF EQUIPMENT IS PROVIDED THAT IS DIFFERENT THAN THE EQUIPMENT THAT THE STRUCTURE WAS DESIGNED FOR EITHER BY SIZE, WEIGHT OR CONFIGURATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REMEDY OF THE SITUATION. THOSE COSTS SHALL INCLUDE THE ENGINEERING COSTS TO REDESIGN PORTIONS OF THE STRUCTURE TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL DESIGN AND MATERIALS FOR ATTACHING NON-STRUCTURAL ELEMENTS TO ANY PORTION OF THE STRUCTURE TO RESIST ALL LOADS, INCLUDING SEISMIC, IN A WAY THAT DOES NOT OVERSTRESS STRUCTURAL MEMBERS.

STRUCTURAL TESTS, INSPECTIONS, AND QUALITY ASSURANCE

ALL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED PER CHAPTER 17 OF THE BUILDING CODE WITH LOCAL SUPPLEMENTS, UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED.

MINIMUM INSPECTION				
Verify compliance with the approved submittals				
LEVEL B - QUALITY ASSURANCE				
MINIMUM TESTS				
Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Specification Article 1.5 B.1.b.3 for self-consolidating grout				
Verification of $f'_{cm}$ and $f'_{AAC}$ in accordance with Specification Article 1.4 B prior to construction, except where specifically exempted by Code				
MINIMUM INSPECTION				
Inspection Task	FREQUENCY <sup>(a)</sup>		REFERENCE FOR CRITERIA	
	Continuous	Periodic	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6
1. Verify compliance with the approved submittals				
2. As masonry construction begins, verify that the following are in compliance:				
a. Proportions of site-prepared mortar		X		Art. 2.1, 2.6 A
b. Construction of mortar joints		X		Art. 3.3 B
c. Grade and size of prestressing tendons and anchorages		X		Art. 2.4 B, 2.4 H
d. Location of reinforcement, connectors, and prestressing tendons and anchorages		X		Art. 3.4, 3.6 A
e. Prestressing technique		X		Art. 3.6 B
f. Properties of thin-bed mortar for AAC masonry	X <sup>(b)</sup>	X <sup>(c)</sup>		Art. 2.1 C
3. Prior to grouting, verify that the following are in compliance:				
a. Grout space		X		Art. 3.2 D, 3.2 F
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		X	Sec. 1.16	Art. 2.4, 3.4
c. Placement of reinforcement, connectors, and prestressing tendons and anchorages		X	Sec. 1.16	Art. 3.2 E, 3.4, 3.6 A
d. Proportions of site-prepared grout and prestressing grout for bonded tendons		X		Art. 2.6 B, 2.4 G, 1.1b
e. Construction of mortar joints		X		Art. 3.3 B
4. Verify during construction:				
a. Size and location of structural elements		X		Art. 3.3 F
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction		X	Sec. 1.16, 4.3, 1.17.1	
c. Welding of reinforcement	X		Sec. 2.1.7.7.2, 3.3.3.4 (c), 8.3.3.4(b)	
d. Preparation, construction and protection of masonry during cold weather (temperatures below 40° F (4.4°C)) or hot weather (temperatures above 90° F (32.2°C))		X		Art. 1.8 C, 1.8 D
e. Application and measurement of prestressing force	X			Art. 3.6 B
f. Placement of grout and prestressing grout for bonded tendons is in compliance	X			Art. 3.5, 3.6 C
g. Placement of AAC masonry units and construction of thin-bed mortar joints	X <sup>(b)</sup>	X <sup>(c)</sup>		Art. 3.3 B.8
5. Observe preparation of grout specimens, mortar specimens, and/or prisms		X		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(a) Frequency refers to the frequency of inspection, which may be continuous during the task listed or periodically during the listed task, as defined in the table.  
 (b) Required for the first 5000 square feet (465 square meters) of AAC masonry.  
 (c) Required after the first 5000 square feet (465 square meters) of AAC masonry.

REQUIRED VERIFICATION & INSPECTION OF STRUCTURAL STEEL FOR WELDING PROCESS

Inspection Tasks Prior to Welding		
	QUALITY CONTROL	QUALITY ASSURANCE
Welding procedure specifications (WPSs) available	P	P
Manufacturer certifications for welding consumables available	P	P
Material identification (type/grade)	O	O
Welder identification system <sup>1</sup>	O	O
Fit-up of groove welds (including joint geometry)		
• Joint preparation		
• Dimensions (alignment, root opening, root face, bevel)	O	O
• Cleanliness (condition of steel surfaces)		
• Tacking (tack weld quality and location)		
• Backing type and fit (if applicable)		
Configuration and finish of access holes	O	O
Fit-up of fillet welds		
• Dimensions (alignment, gaps at root)	O	O
• Cleanliness (condition of steel surfaces)		
• Tacking (tack weld quality and location)		
Check welding equipment	O	-

Inspection Tasks During Welding		
	QUALITY CONTROL	QUALITY ASSURANCE
Inspection Tasks During Welding	O	O
Use of qualified welders	O	O
Control and handling of welding consumables		
• Packaging	O	O
• Exposure Control		
No welding over cracked tack welds	O	O
Environmental conditions		
• Wind speed within limits	O	O
• Precipitation and temperature		
WPS followed		
• Settings on welding equipment		
• Travel speed		
• Selected welding materials	O	O
• Shielding gas type/flow rate		
• Preheat applied		
• Interpass temperature maintained (min./max.)		
• Proper position (F, V, H, OH)		
Welding Techniques		
• Interpass and final cleaning	O	O
• Each pass within profile limitations		
• Each pass meets quality requirements		

Inspection Tasks After Welding		
	QUALITY CONTROL	QUALITY ASSURANCE
Inspection Tasks After Welding	O	O
Welds cleaned	O	O
Size, length and location of welds	P	P
Welds meet visual acceptance criteria		
• Crack prohibition	P	P
• Weld/base-metal fusion		
• Crater cross section		
• Weld profiles		
• Weld size		
• Undercut		
• Porosity		
Arc strikes	P	P
k-area <sup>2</sup>	P	P
Backing removed and weld tabs removed (if required)	P	P
Repair activities	P	P
Document acceptance or rejection of welded joint or member	P	P

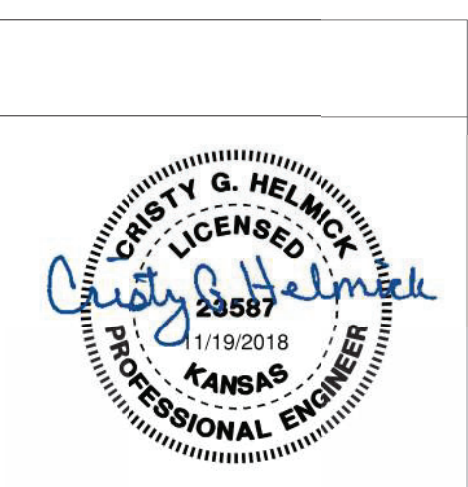
Quality Control - Requirements on the part of the steel fabricator and erector  
 Quality Assurance - Requirements on the part of the project owner's representative  
 P - Perform these tasks for each weld joint or member.  
 O - Observe these items on a random basis. Operations need not be delayed pending these inspections.  
<sup>1</sup> - The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.  
<sup>2</sup> - When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75mm) of the weld.

REQUIRED VERIFICATION & INSPECTION OF SOILS	
VERIFICATION AND INSPECTION	FREQUENCY
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Periodic
2. Verify excavations are extended to proper depth and have reached proper material.	Periodic
3. Perform classification and testing of compacted fill materials.	Periodic
4. Verify use of proper materials, densities and fill thicknesses during placement and compaction of compacted fill.	Continuous
5. Prior to placement of compacted fill, observe subgrade and verify that site has been properly prepared.	Periodic

REQUIRED VERIFICATION & INSPECTION OF CONCRETE CONSTRUCTION			
VERIFICATION AND INSPECTION	FREQUENCY	REFERENCED STANDARD	IBC REFERENCE
1. Inspection of reinforcing steel, including prestressing tendons and placement.	Periodic	ACI 318: 3.5, 7.1-7.7	1910.4
2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b.		AWS D1.4 ACI 318: 3.5.2	
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.	Periodic	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. Inspection of anchors post installed in hardened concrete members.	Periodic	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. Verifying use of required mix design.	Periodic	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. At the time of fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Continuous	ASTM C172, ASTM C31, ACI 318: 5.6, 5.8	1910.10
7. Inspection of concrete and shotcrete placement for proper application techniques.	Continuous	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. Inspection for maintenance of specified curing temperature and techniques.	Periodic	ACI 318: 5.11-5.13	1910.9
9. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	Continuous Continuous	ACI 318: 18.20 ACI 318: 18.18.4	
10. Erection of precast concrete members.	Periodic	ACI 318: Ch. 16	
11. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	Periodic	ACI 318: 6.2	
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	Periodic	ACI 318: 6.1.1	

Revisions:	Date

CONSULTANTS:	



ARCHITECT/ENGINEERS:

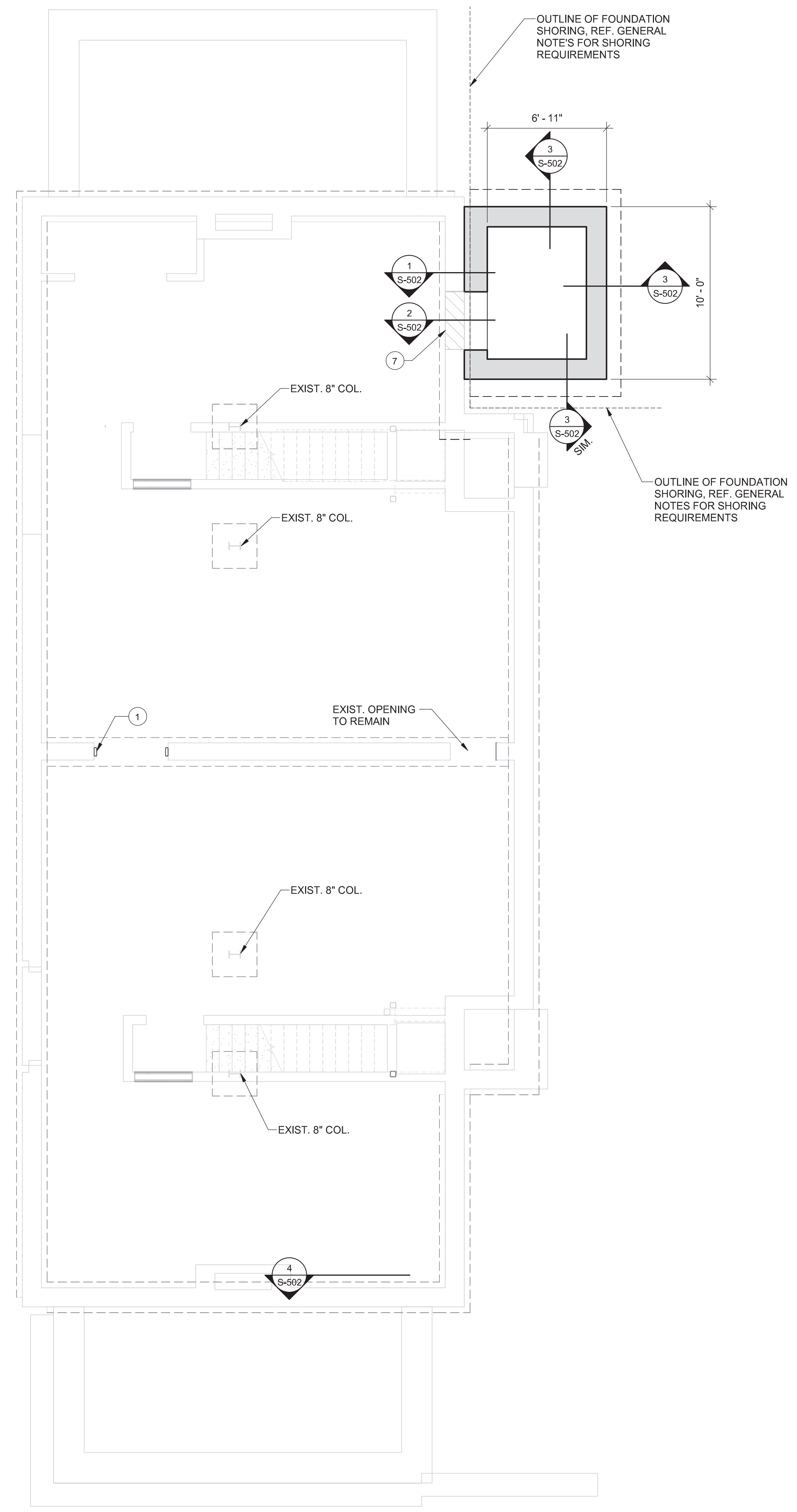
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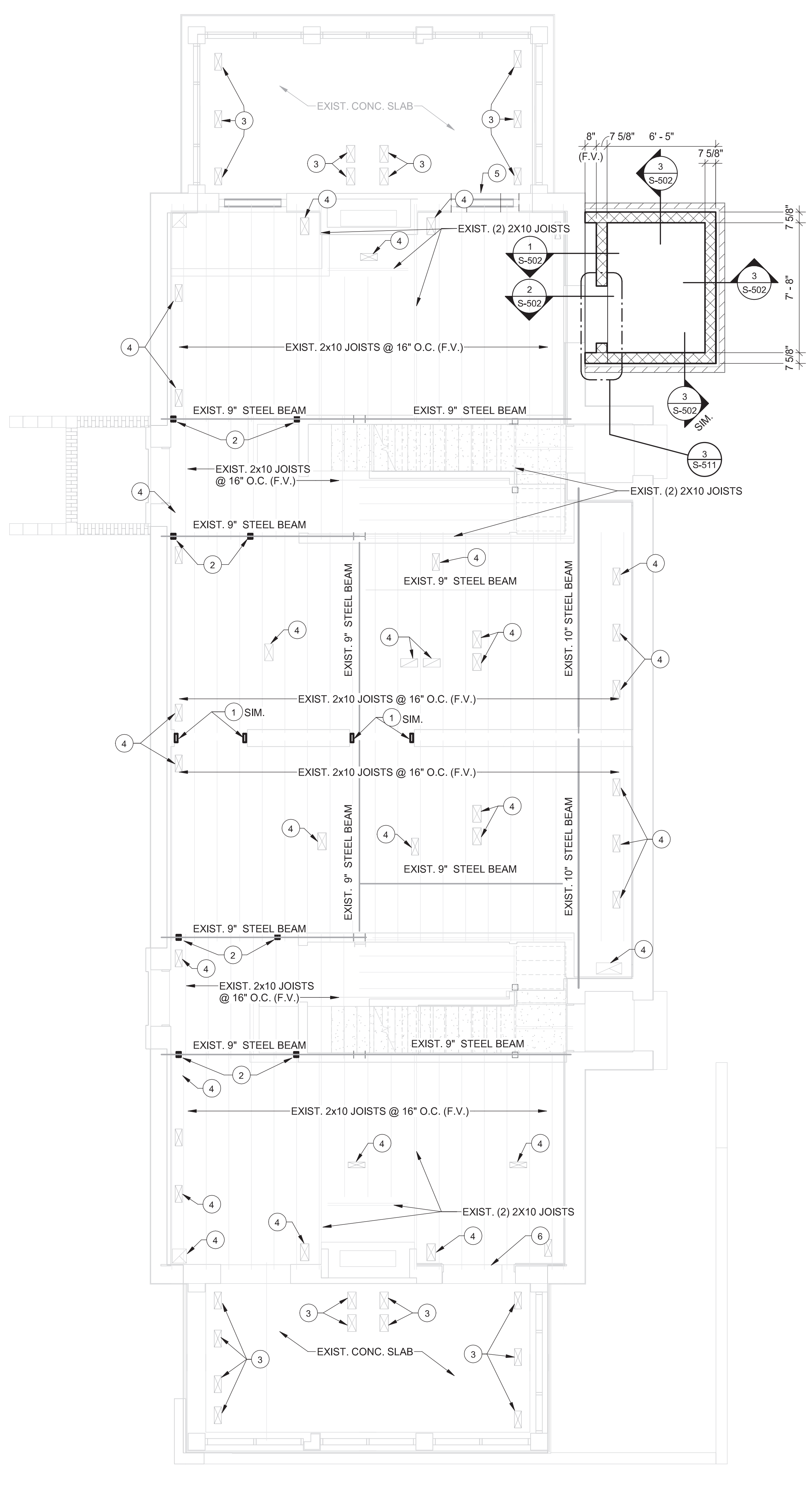
Drawing Title	
IBC INSPECTION TABLES	
Approved: Project Director	

Project Title RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7 Contract No.: VA255-17-D-0080 Task Order No.: 36C25518N1024 Obligation No.: 589-C81081	Project Number 589A7-18-301	Office of Construction and Facilities Management
Location Wichita, Kansas	Building Number 7	
Date 11/19/2018	Checked CGH	Department of Veterans Affairs
Drawn KDW	Dwg. S-002	

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
 one sixteenth inch = one foot



**1 FOUNDATION PLAN**  
 S-101  
 1/4" = 1'-0"  
 0' 2' 4' 8'  
 1/4" = 1'-0"



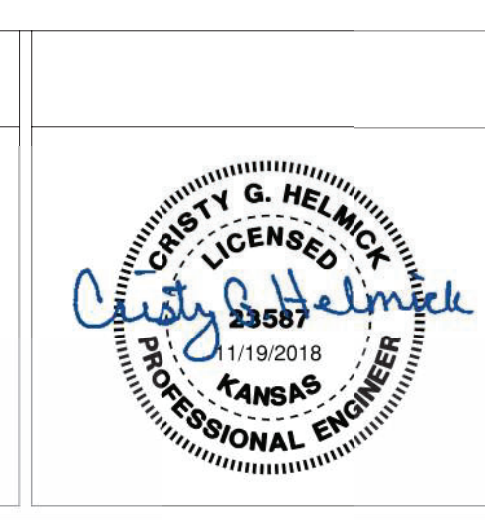
**2 MAIN FLOOR FRAMING PLAN**  
 S-102  
 1/4" = 1'-0"  
 0' 2' 4' 8'  
 1/4" = 1'-0"

- PLAN NOTES:**
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION THAT MAY AFFECT THE PROJECT AND REPORT DISCREPANCIES TO THE ENGINEER. ANY DIMENSIONS AND ELEVATIONS THAT IMPACT NEW WORK SHALL BE VERIFIED PRIOR TO FABRICATION OF ANY MATERIAL.
  - G.C. SHALL HAVE ALL STRUCTURAL CONCRETE SLABS INTENDED TO BE CORED OR CUT INVESTIGATED W/ GROUND PENETRATING RADAR (GPR) PRIOR TO CUTTING/CORING. LOCATION OF REINFORCING SHALL BE REPORTED TO THE ENGINEER OF RECORD (EOR). THE EOR MAY DIRECT THE CONTRACTOR TO ADJUST THE OPENING LOCATION TO REDUCE THE QUANTITY OF EXISTING REINFORCING THAT WILL BE CUT.
  - ALL NEW CIRCULAR OPENINGS IN EXIST. CONCRETE SHALL BE CORE DRILLED. ALL NEW RECTANGULAR OPENINGS SHALL BE CORE DRILLED IN EACH CORNER TO PREVENT OVERCUTTING BEYOND THE INTENDED CORNERS. THE CONTRACTOR SHALL APPLY APPROPRIATE PRESSURE TO THE EQUIPMENT TO PREVENT SPALLING OVER 1/2" ON THE BACK SIDE OF OPENING.
  - NEW OPENINGS IN EXIST. CLAY TILE WALLS SHALL FOLLOW GUIDELINES SIMILAR TO CUTTING EXISTING STRUCTURAL CONCRETE. DO NOT OVERCUT OPENINGS.
  - REF. S-501 FOR TYP. FOUNDATION DETAILS
  - REF. S-510 FOR TYP. FRAMING DETAILS
  - REF. S-601 FOR TYP. MASONRY DETAILS

- KEYED PLAN NOTES:**
- REF. DETAIL 2/S-511 FOR FRAMING AT NEW OPENING IN EXISTING CLAY WALL
  - (2) 2X4 COLUMN AT EA. SIDE OF NEW OPENING REF. DETAIL 8/S-511.
  - NEW OPENINGS IN EXIST. CONCRETE SLAB TO BE LOCATED BETWEEN REINFORCING BARS. REF. PLAN NOTES FOR SAW CUTTING OF EXIST. STRUCT. CONCRETE
  - ADD 2X BLOCKING BETWEEN JOISTS AT OPENING LOCATIONS REF. 3/S-510. OPENING TO BE LOCATED BETWEEN EXIST. JOISTS. DO NOT CUT JOISTS.
  - EXIST. OPENING BELOW TO REMAIN. RUN NEW DUCTS THROUGH EXIST. OPENING.
  - SAW CUT AND REMOVE SECTION OF CONCRETE WALL FOR NEW OPENING. REF. 4/S-502
  - SAW CUT OPENING IN EXIST. CONCRETE WALL BELOW EXIST. WINDOW OPENING FOR NEW ELEVATOR. WIDTH OF OPENING SHALL MATCH WIDTH OF EXIST. WINDOW OPENING. REF. PLAN NOTES FOR SAW CUTTING OF EXIST. STRUCTURAL CONCRETE

Revisions:	Date

**CONSULTANTS:**  
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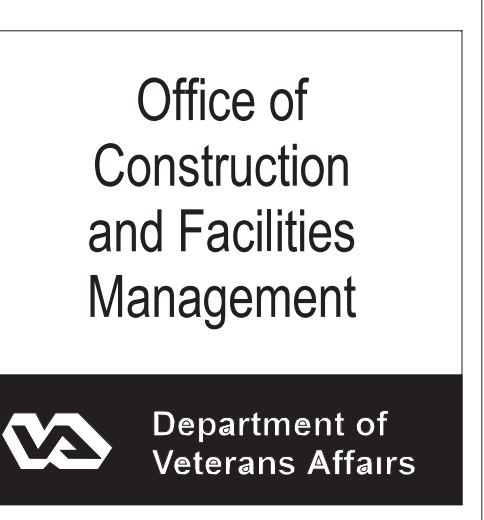
**ARCHITECT/ENGINEERS:**  
**MHEG**  
 ARCHITECTURE



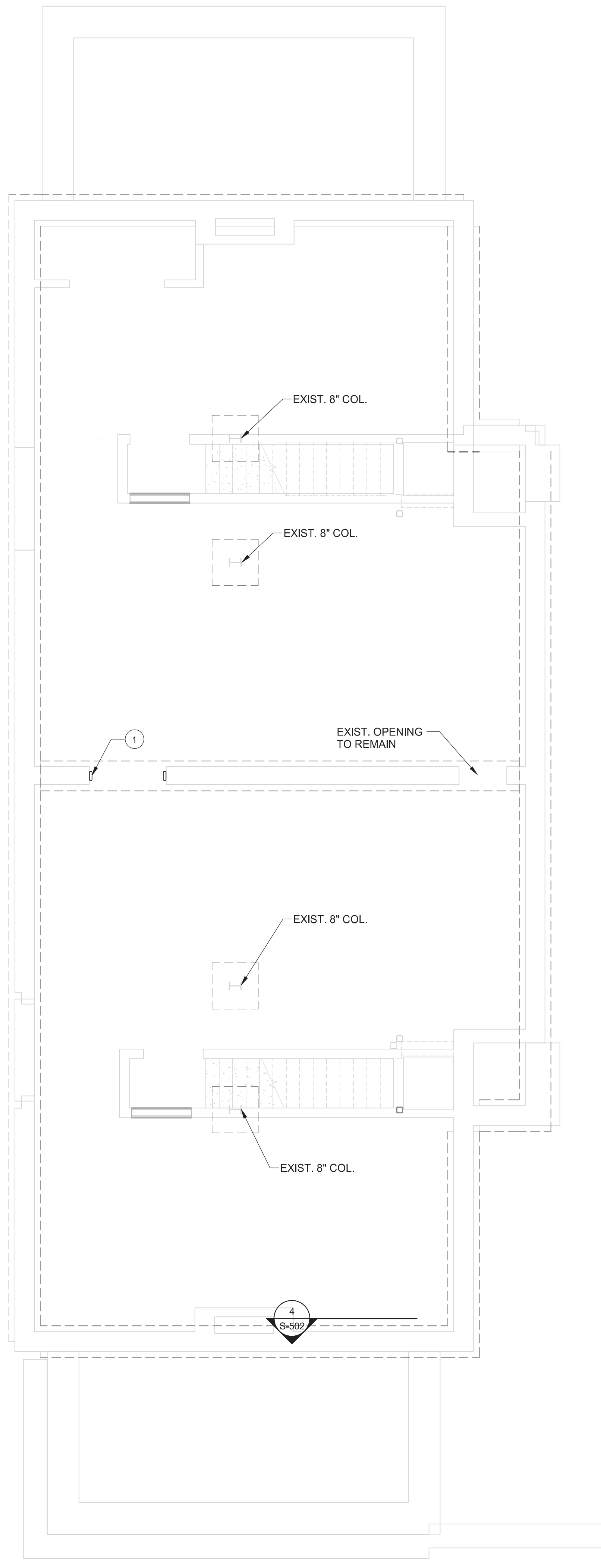
Drawing Title  
**FOUNDATION & MAIN FLOOR FRAMING PLAN**  
 Approved: Project Director

Project Title  
 RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
 Contract No.: VA255-17-D-0080  
 Task Order No.: 36C25518M1024  
 Obligation No.: 589-C81081

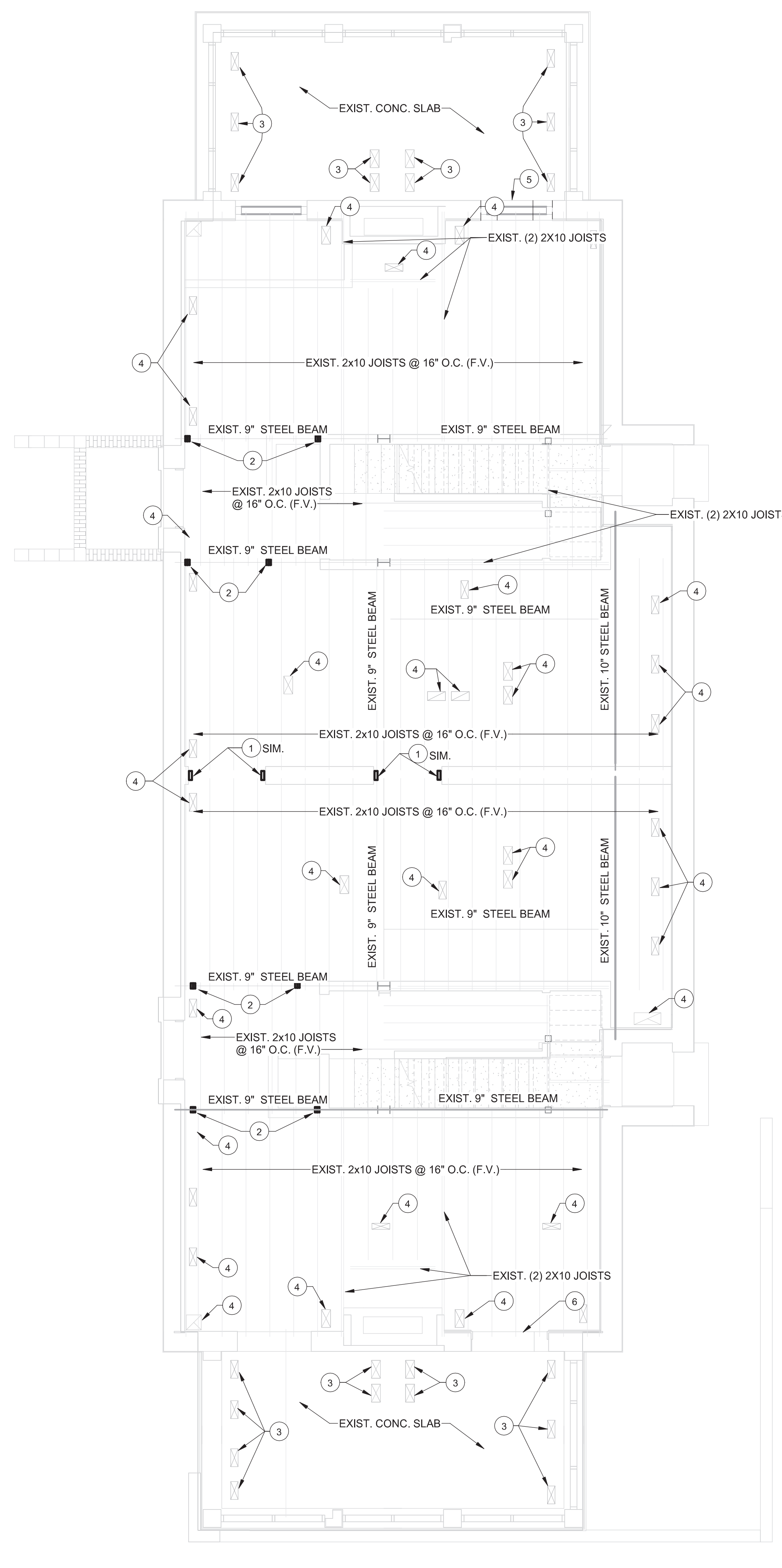
Project Number  
 589A7-18-301  
 Building Number  
 7  
 Drawing Number  
**S-101**  
 Dwg.



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1 FOUNDATION PLAN - BID ITEM 5  
 S-101.5 1/4" = 1'-0"



2 MAIN FLOOR FRAMING PLAN  
 S-101.5 1/4" = 1'-0"

- PLAN NOTES:**
- G.C. SHALL HAVE ALL STRUCTURAL CONCRETE SLABS INTENDED TO BE CORED OR CUT INVESTIGATED W/ GROUND PENETRATING RADAR (GPR) PRIOR TO CUTTING/CORING. LOCATION OF REINFORCING SHALL BE REPORTED TO THE ENGINEER OF RECORD (EOR). THE EOR MAY DIRECT THE CONTRACTOR TO ADJUST THE OPENING LOCATION TO REDUCE THE QUANTITY OF EXISTING REINFORCING THAT WILL BE CUT.
  - ALL NEW CIRCULAR OPENINGS IN EXIST. CONCRETE SHALL BE CORE DRILLED. ALL NEW RECTANGULAR OPENINGS SHALL BE CORE DRILLED IN EACH CORNER TO PREVENT OVERCUTTING BEYOND THE INTENDED CORNERS. THE CONTRACTOR SHALL APPLY APPROPRIATE PRESSURE TO THE EQUIPMENT TO PREVENT SPALLING OVER 1/2" ON THE BACK SIDE OF OPENING.
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  - EXIST. OPENING BELOW TO REMAIN. RUN NEW DUCTS THROUGH EXIST. OPENING.
  - SAW CUT AND REMOVE SECTION OF CONCRETE WALL FOR NEW OPENING. REF. 4/S-502

Revisions:	Date

**CONSULTANTS:**

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**ARCHITECT/ENGINEERS:**

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 ARCHITECTURE

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 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 303 SOUTH TOPEKA WICHITA, KS 67202  
 316-262-2891 www.pec1.com

Drawing Title  
**FOUNDATION & MAIN FLOOR FRAMING PLAN - BID ITEM 5**

Approved: Project Director

Project Title  
**RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7**

Contract No.: VA255-17-D-0080  
 Task Order No.: 36C25518M1024  
 Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date: 11/19/2018  
 Checked: Checker  
 Drawn: Author

Project Number  
 589A7-18-301

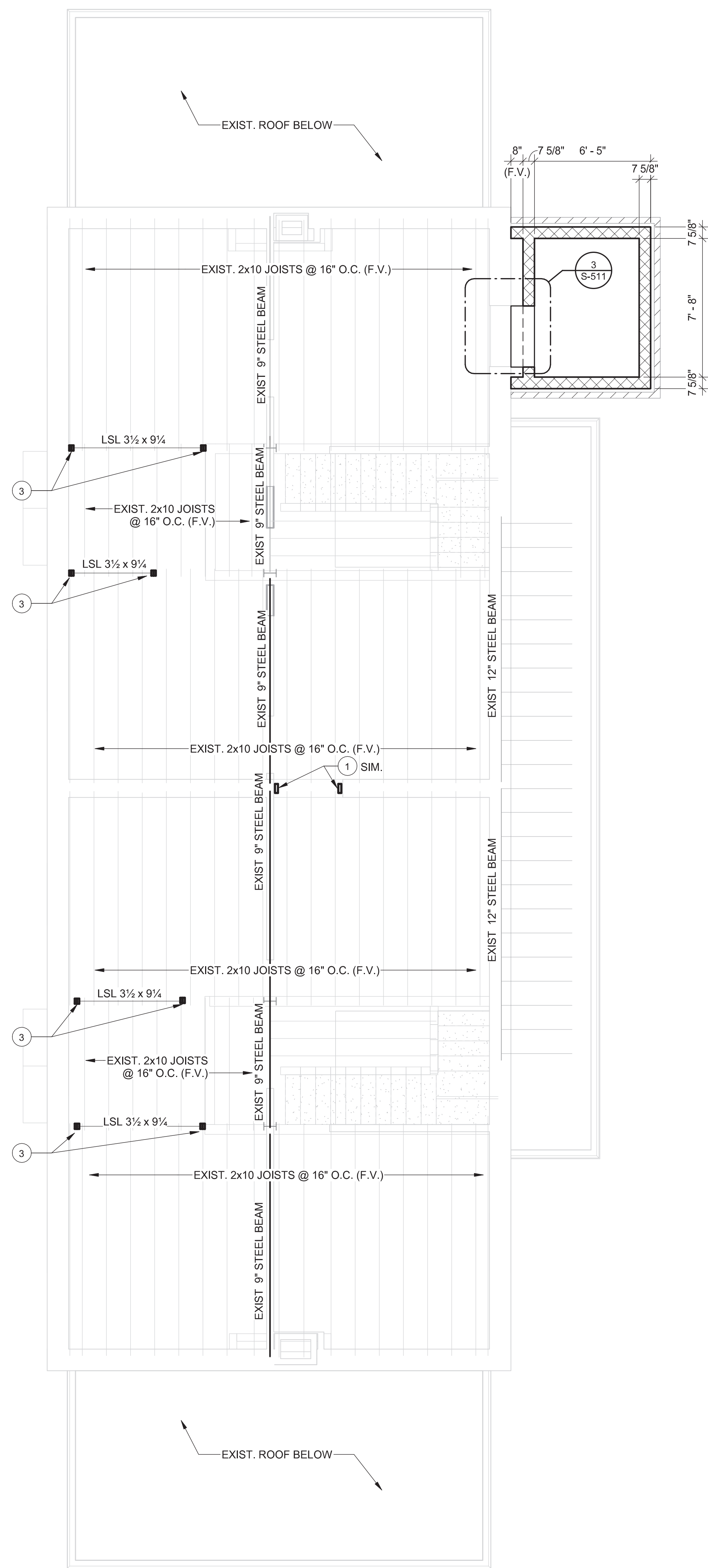
Building Number  
 7

Drawing Number  
**S-101.5**

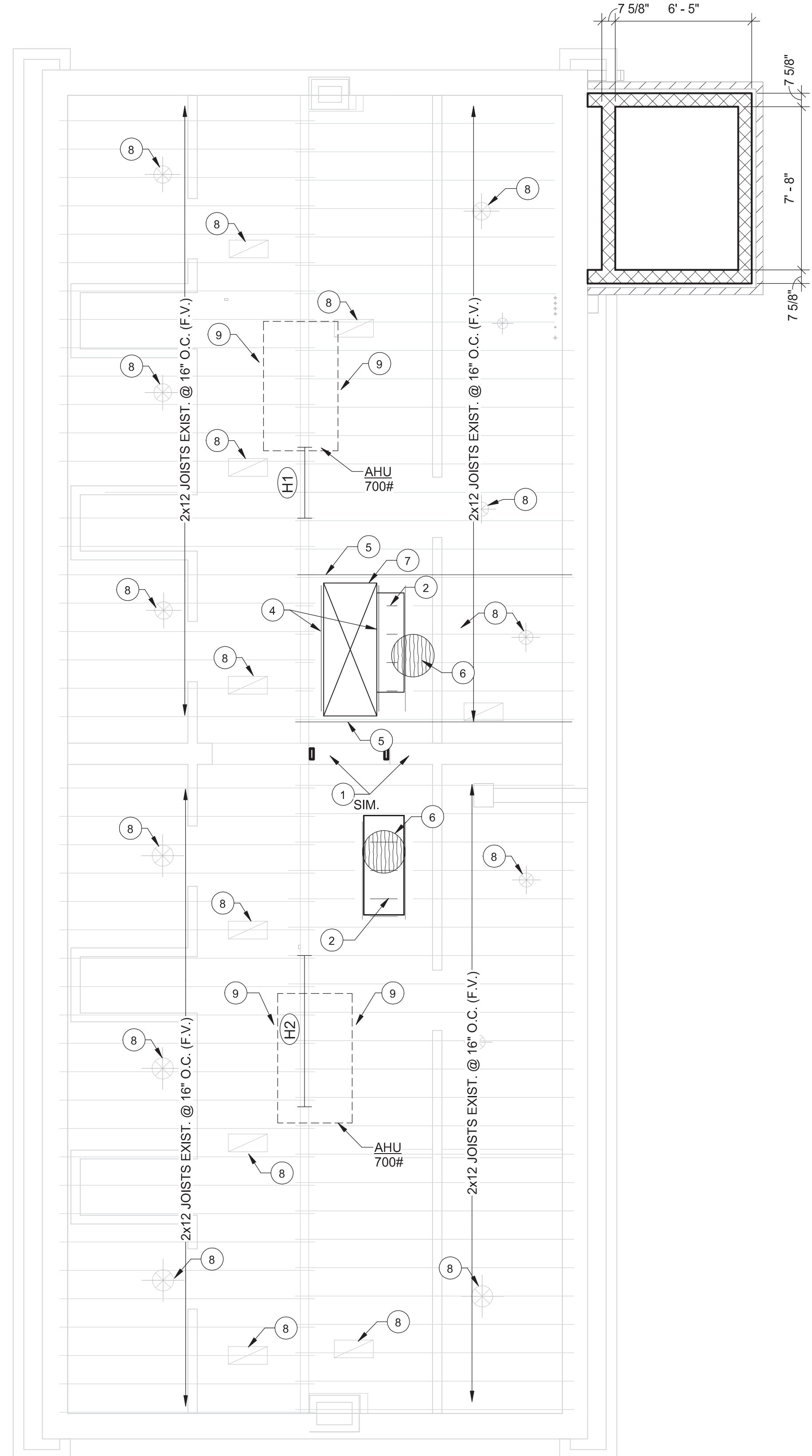
Dwg.

Office of Construction and Facilities Management

Department of Veterans Affairs



1 UPPER FLOOR FRAMING PLAN  
S-102 1/4" = 1'-0"



2 ATTIC FLOOR FRAMING PLAN  
S-102 1/4" = 1'-0"

PLAN NOTES:

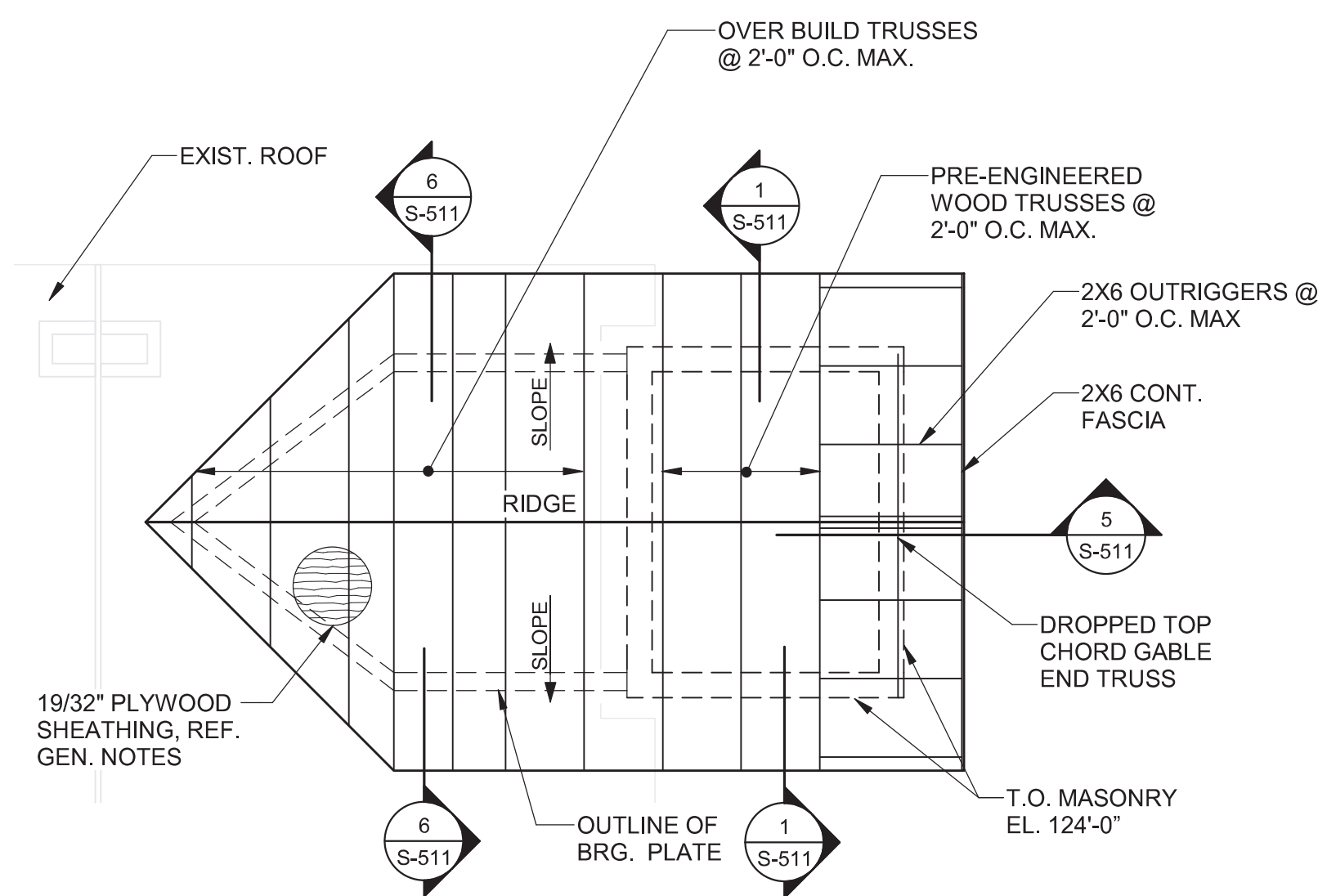
REF. SHEET S-101 FOR PLAN NOTES

KEYED PLAN NOTES:

- 1 REF. DETAIL 2/S-511 FOR FRAMING AT NEW OPENING IN EXISTING CLAY TILE WALL
- 2 PROVIDE 2X10 JOIST INFILL AT EXIST. OPENING REF. 3/S-510
- 3 REF. 7/S-511 FOR BEAM TO COLUMN CONNECTION
- 4 PROVIDE (2) 2X10 EA. SIDE OF OPENING, REF. 7/S-510 FOR CONN.
- 5 REF. 8/S-510 FOR JOIST REINF. AT NEW OPENINGS
- 6 32/32" APA RATED PLYWOOD FLOOR SHEATHING AT INFILL
- 7 NEW ATTIC ACCESS OPENING, REF. ARCH. FOR LOCATION AND DIMENSIONS
- 8 ADD 2X BLOCKING BETWEEN JOISTS AT OPENING LOCATIONS. OPENING TO BE LOCATED BETWEEN EXIST. JOISTS. DO NOT CUT JOISTS.
- 9 ADD 2X BLOCKING BETWEEN JOISTS AROUND PERIMETER OF PROPOSED NEW. TYP. REF 3/S-510.

PLAN MARKS:

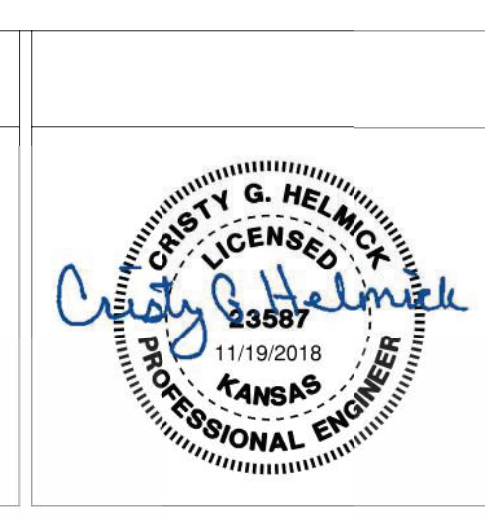
(H#) HEADER, REF. SCHEDULE ON 5/S-510



3 ELEVATOR ROOF FRAMING PLAN  
S-102 1/4" = 1'-0"

Revisions:	Date

CONSULTANTS:  
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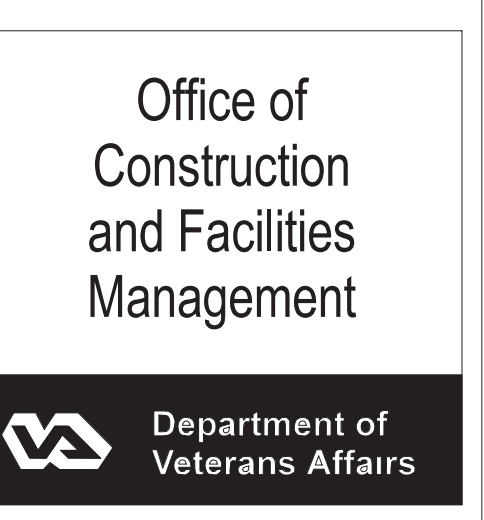
ARCHITECT/ENGINEERS:  
**M HEG**  
ARCHITECTURE

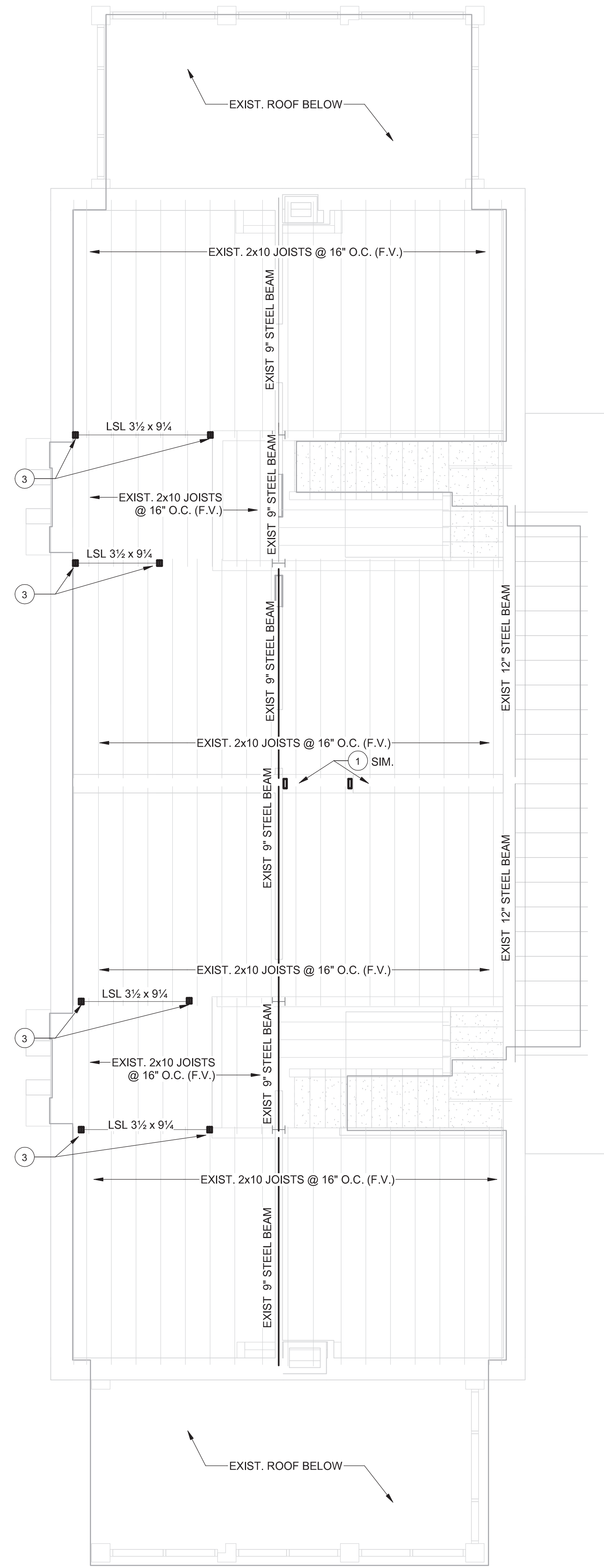


Drawing Title  
**UPPER FLOOR, ATTIC AND ROOF FRAMING PLANS**  
Approved: Project Director

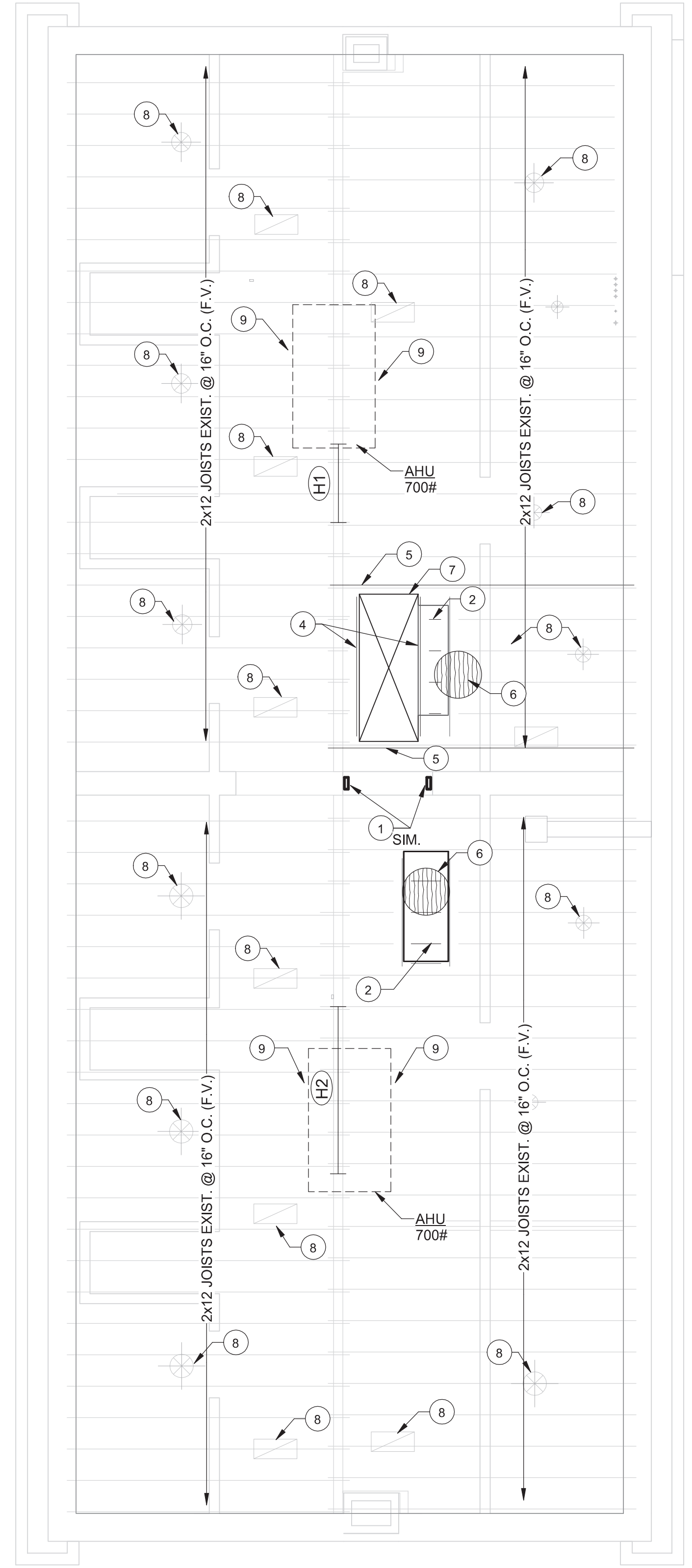
Project Title  
**RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7**  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518M1024  
Obligation No.: 589-C81081  
Location  
**Wichita, Kansas**  
Date: 11/19/2018  
Checked: CGH  
Drawn: KDW

Project Number: 589A7-18-301  
Building Number: 7  
Drawing Number: **S-102**  
Dwg.





1 UPPER FLOOR FRAMING PLAN - BID ITEM 5  
 1/4" = 1'-0"  
 0' 2' 4' 8'



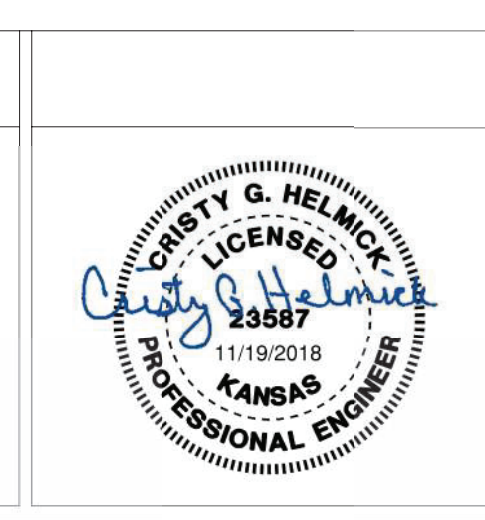
2 ATTIC FLOOR FRAMING PLAN - BID ITEM 5  
 1/4" = 1'-0"  
 0' 2' 4' 8'

PLAN NOTES:  
 - REF. SHEET S-101 FOR PLAN NOTES

- KEYED PLAN NOTES:
- 1 REF. DETAIL 2/S-511 FOR FRAMING AT NEW OPENING IN EXISTING CLAY TILE WALL
  - 2 PROVIDE 2X10 JOIST INFILL AT EXIST. OPENING REF. 3/S-510
  - 3 REF. 7/S-511 FOR BEAM TO COLUMN CONNECTION
  - 4 PROVIDE (2) 2X10 EA. SIDE OF OPENING, REF. 7/S-510 FOR CONN.
  - 5 REF. 8/S-510 FOR JOIST REINF. AT NEW OPENINGS
  - 6 32/32" APA RATED PLYWOOD FLOOR SHEATHING AT INFILL
  - 7 NEW ATTIC ACCESS OPENING, REF. ARCH. FOR LOCATION AND DIMENSIONS
  - 8 ADD 2X BLOCKING BETWEEN JOISTS AT OPENING LOCATIONS. OPENING TO BE LOCATED BETWEEN EXIST. JOISTS. DO NOT CUT JOISTS.
  - 9 ADD 2X BLOCKING BETWEEN JOISTS AROUND PERIMETER OF PROPOSED NEW AHU, TYP. REF 3/S-510.

Revisions:	Date

CONSULTANTS:  
 --



ARCHITECT/ENGINEERS:

**M HEG**  
 ARCHITECTURE

**PEC**  
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 303 SOUTH TOPEKA WICHITA, KS 67202  
 316-262-2891 www.pec1.com

Drawing Title  
**UPPER FLOOR AND ATTIC FRAMING - BID ITEM 5**

Approved: Project Director

Project Title  
 RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
 Contract No.: VA255-17-D-0080  
 Task Order No.: 36C25518N1024  
 Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

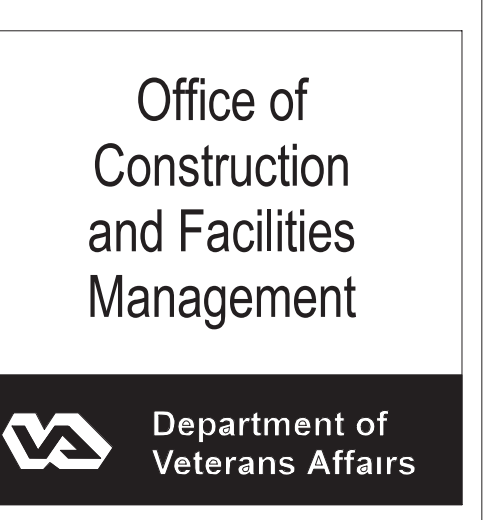
Date	Checked	Drawn
11/19/2018	Checker	Author

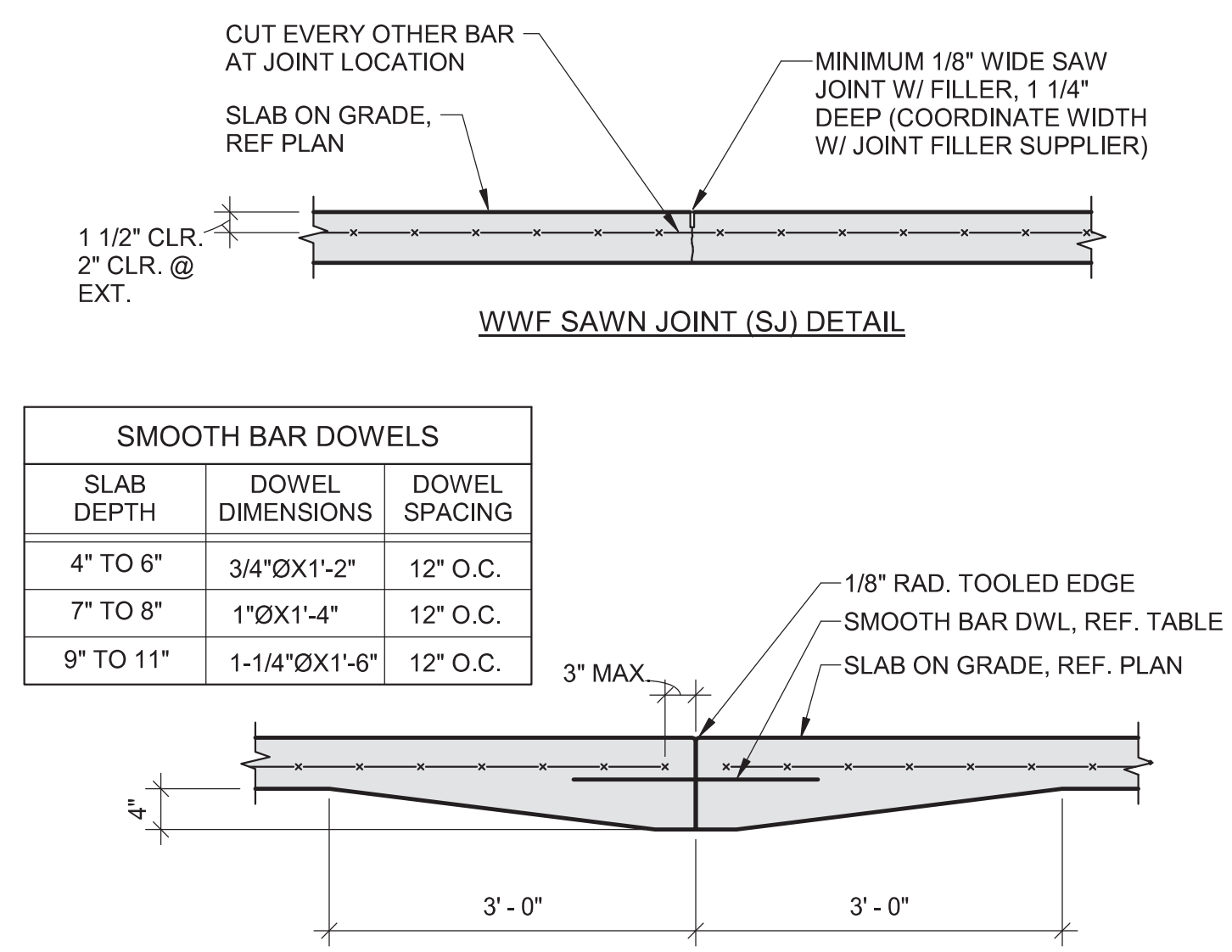
Project Number  
 589A7-18-301

Building Number  
 7

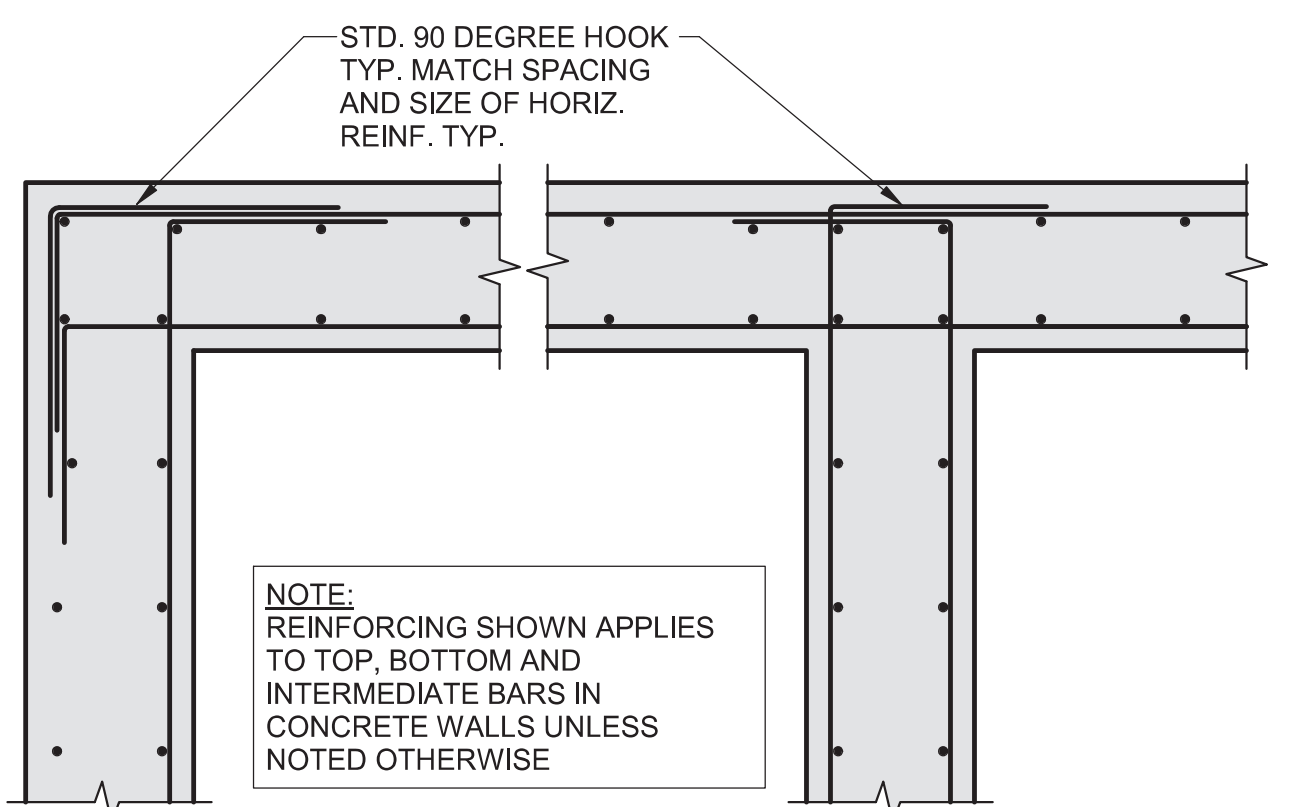
Drawing Number  
**S-102.5**

Dwg.

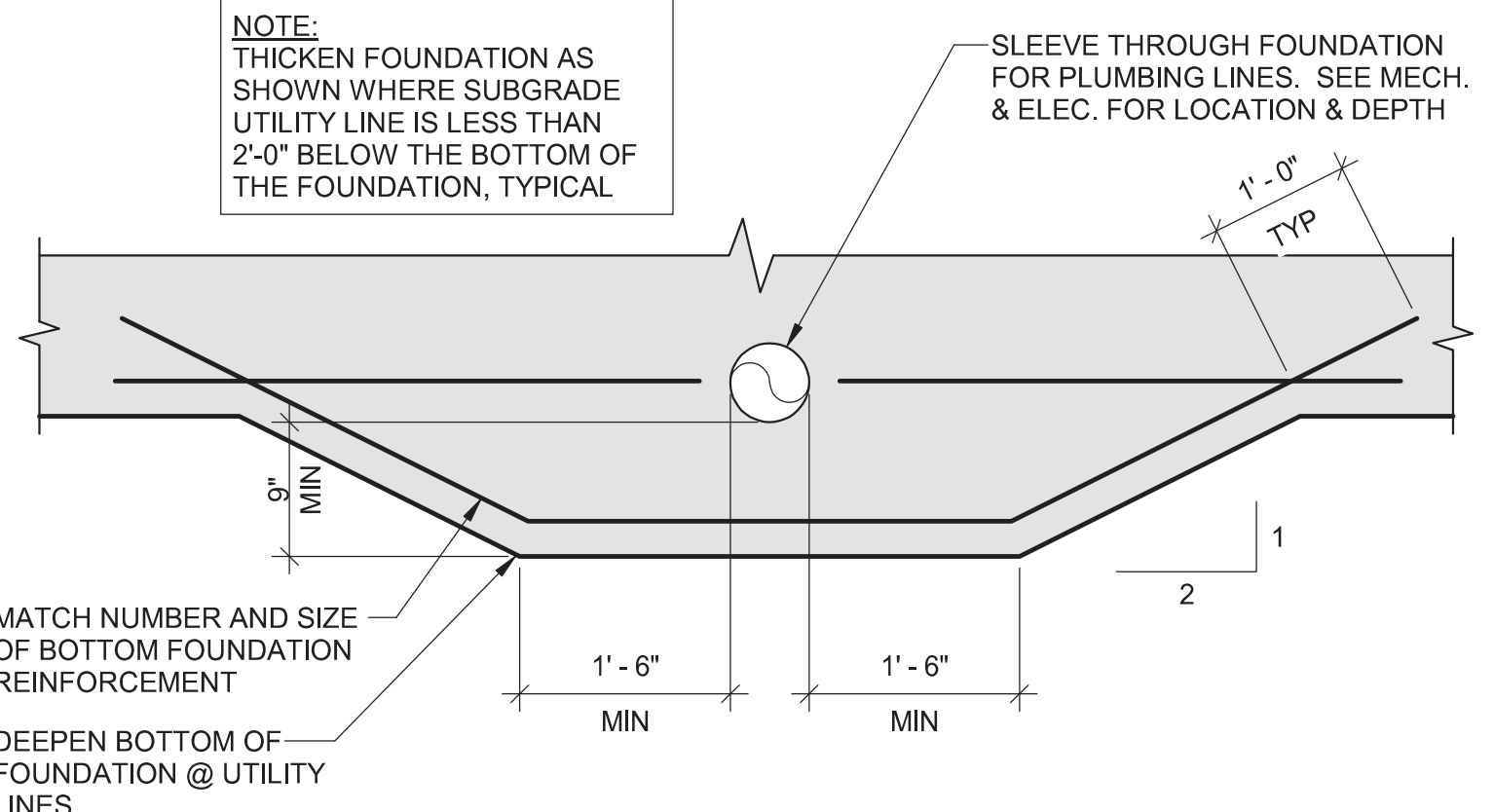




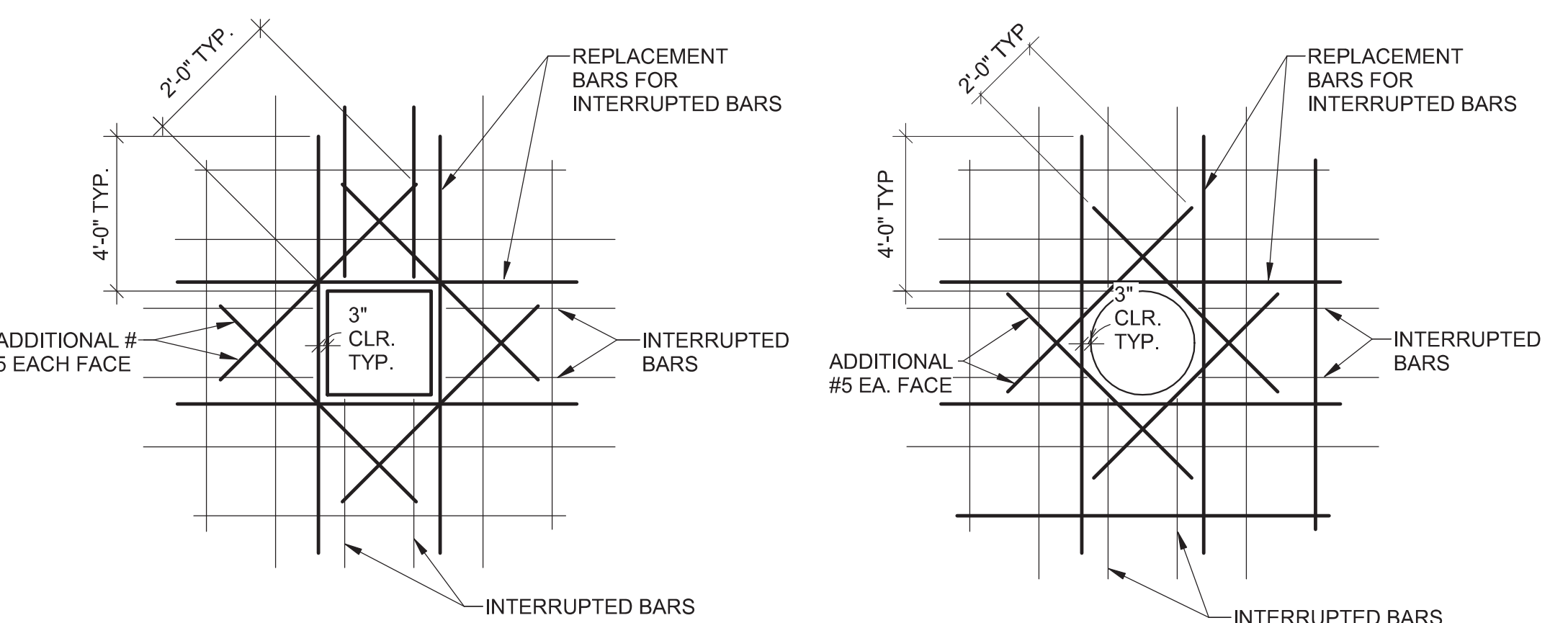
1 TYPICAL SLAB ON GRADE JOINT DETAIL  
NO SCALE



2 TYPICAL CORNER AND INTERSECT. REINF.  
NO SCALE

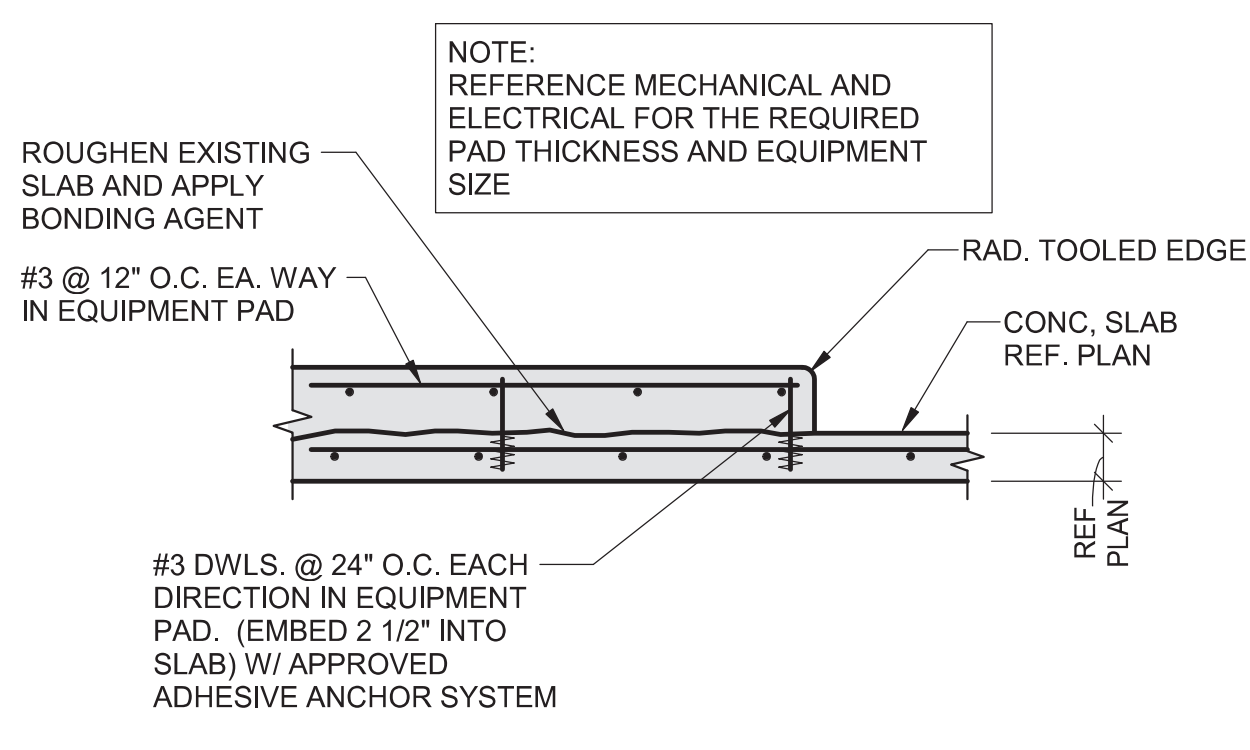


3 TYPICAL THICKENED FOUNDATION DETAIL  
NO SCALE

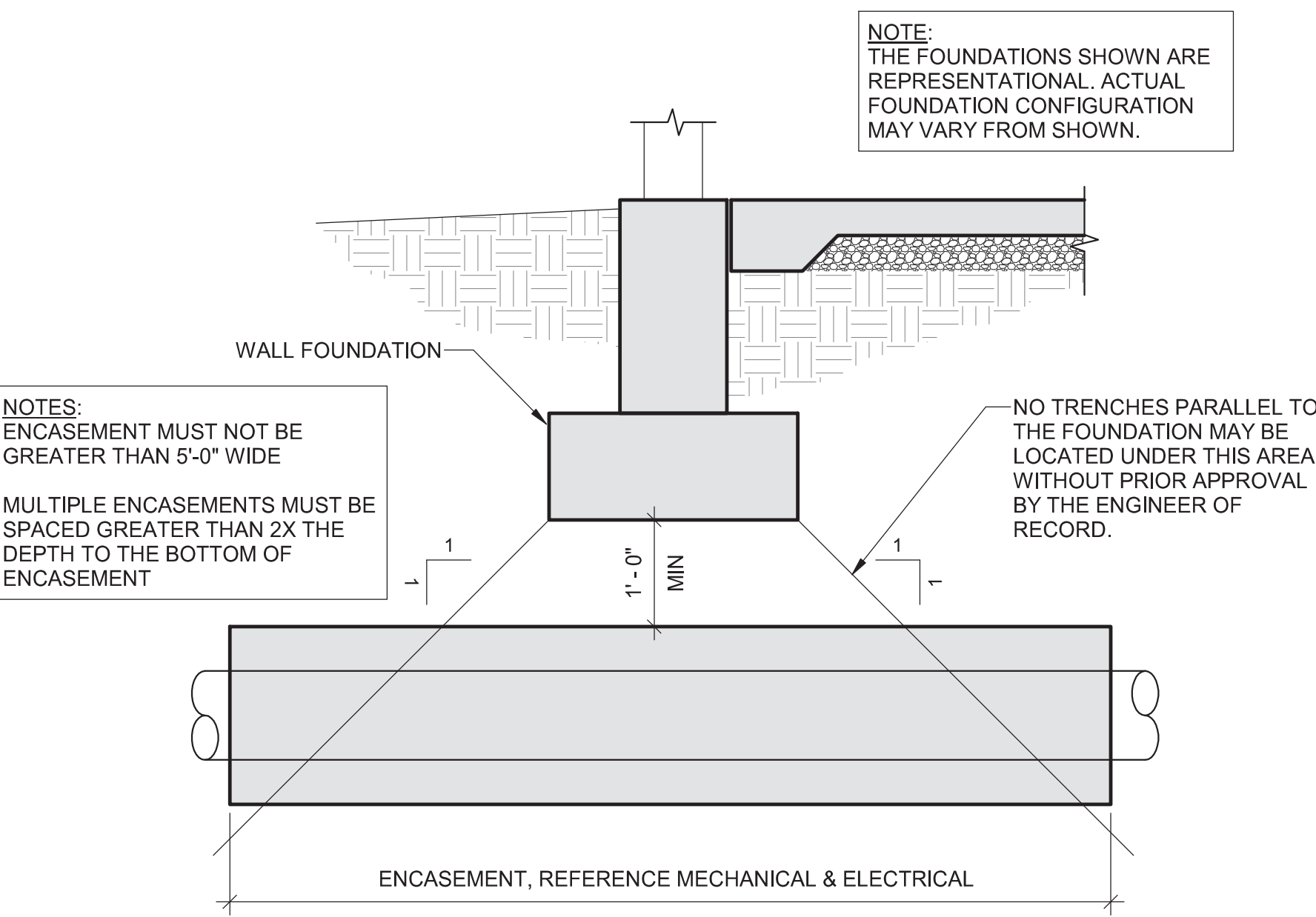


NOTES:  
1. USE THIS DETAIL FOR ALL OPENINGS GREATER THAN 8" IN CONCRETE WALLS AND SLABS. PROVIDE (2) #5 ON DIAGONAL AT EACH CORNER AS SHOWN. EXTEND BARS 2'-0" PAST OPENING. REPLACE ALL VERTICAL AND HORIZONTAL BARS INTERRUPTED BY THE OPENING WITH AN EQUAL NUMBER AND SIZE BARS EVENLY DIVIDED ON EACH SIDE OF THE OPENING UNLESS NOTED OTHERWISE.  
2. REFER TO PLANS FOR ALL OPENING LOCATIONS.

4 TYPICAL SLAB/WALL OPENINGS  
NO SCALE



5 TYP INTERIOR EQUIPMENT PAD SECTION  
NO SCALE



6 TYPICAL ENCASEMENT OF UTILITIES UNDER FOUNDATION  
NO SCALE

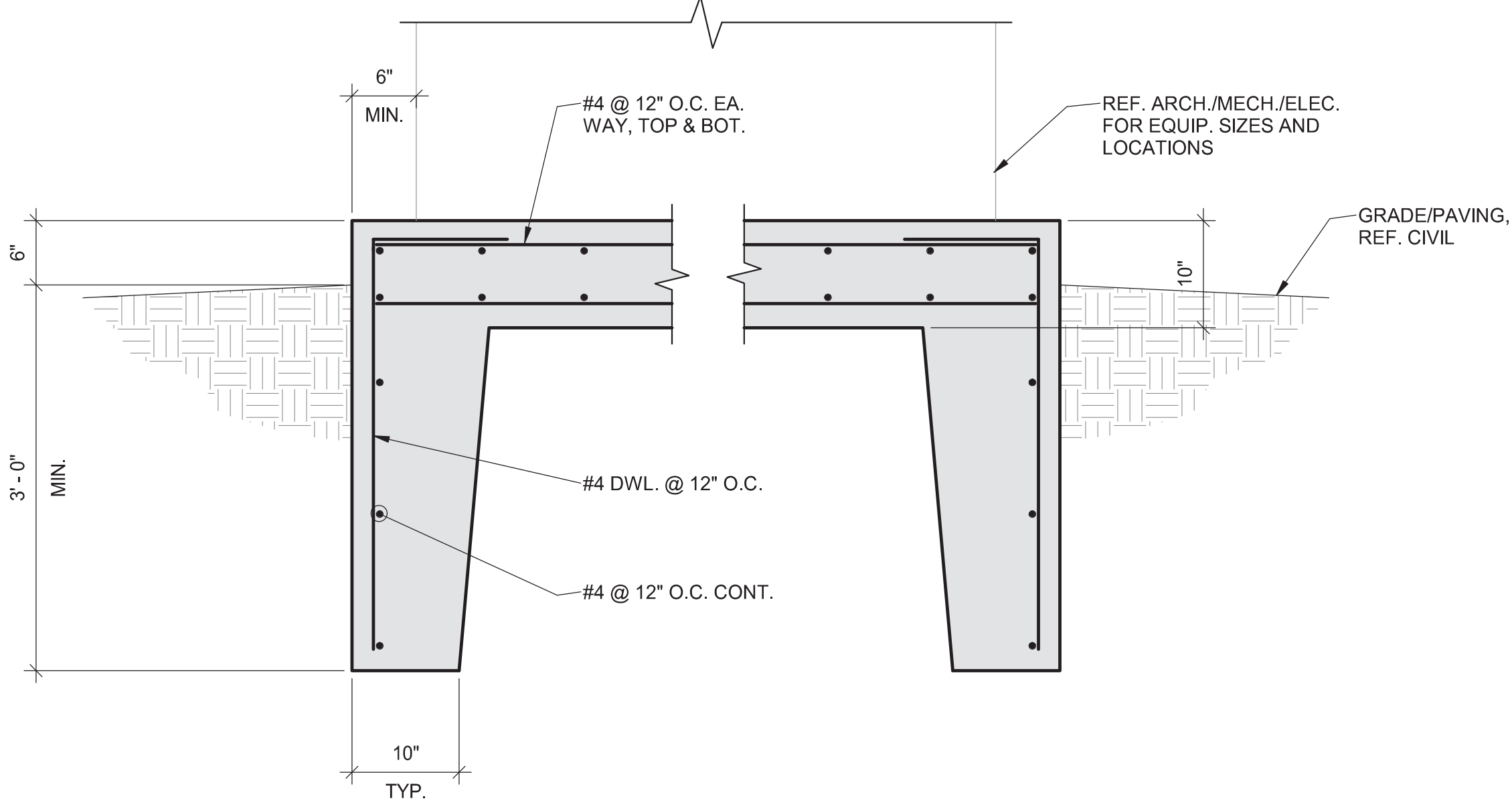
CONCRETE REINFORCEMENT LAPS AND EMBEDMENT LENGTHS

fy = 60000 psi      fc = 4000 psi

BAR SIZE (Ø)	CLEAR SPACING (S) (in.)				EMBEDMENT & CLASS A LAP (in.)								CLASS B LAP (in.)			
					TOP BAR				OTHER BAR				STOP BAR			
	2d	3d	5d	7d	2d	3d	5d	7d	2d	3d	5d	7d	2d	3d	5d	7d
3	3/4	1 1/8	1 7/8	2 1/2	28	18	12	21	14	12	36	24	14	28	18	12
4	1	1 1/2	2 1/2	3 7/8	37	25	15	28	19	12	48	32	19	37	25	15
5	1 1/4	1 7/8	3 1/8	4 3/4	46	31	18	36	24	14	60	40	24	46	31	18
6	1 1/2	2 1/4	3 3/4	5 1/2	55	37	22	43	28	17	72	48	29	55	37	22
7	1 3/4	2 5/8	4 3/8	6 1/2	64	42	25	50	33	20	84	56	33	64	42	25
8	2	3	5	9 1/2	74	47	28	54	36	22	96	64	36	74	47	28
9	2 1/4	3 3/8	5 5/8	10 7/8	84	51	30	60	40	24	108	72	40	84	51	30
10	2 1/2	3 3/4	6 3/8	11 7/8	94	57	33	66	44	26	120	80	44	94	57	33
11	2 7/8	4 1/4	7	13 7/8	106	64	36	72	48	28	132	88	48	106	64	36

NOTES:  
1. LENGTHS SHOWN CONFORM WITH NON-SEISMIC PROVISIONS OF ACI 318 FOR UNCOATED BARS.  
2. BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS ONE BAR DIAMETER.  
3. CLASS A LAP LENGTHS APPLY WHEN BAR LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION. USE CLASS B LAP FOR ALL OTHER CASES.  
4. TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE REINFORCEMENT.  
5. MULTIPLY LAP AND EMBEDMENT LENGTHS GIVEN BY 2.0 FOR BARS WITH CLEAR SPACING OF TWO BAR DIAMETERS OR LESS, OR CONCRETE COVER OF ONE BAR DIAMETER OR LESS.

7 LAP TABLE  
1/16" = 1'-0"



8 EXTERIOR EQUIPMENT PAD DETAIL  
1" = 1'-0"

Revisions:	Date

CONSULTANTS:  
..

ARCHITECT/ENGINEERS:

**MHEG**  
ARCHITECTURE

**PEC**  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 SOUTH TOPEKA WICHITA, KS 67202  
316-262-2891 www.pec1.com

Drawing Title  
**TYPICAL FOUNDATION DETAILS**

Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518M1024  
Obligation No.: 589-C81081

Project Number  
589A7-18-301

Building Number  
7

Drawing Number  
**S-501**

Location  
Wichita, Kansas

Date  
11/19/2018

Checked  
CGH

Drawn  
KDW

Dwg.

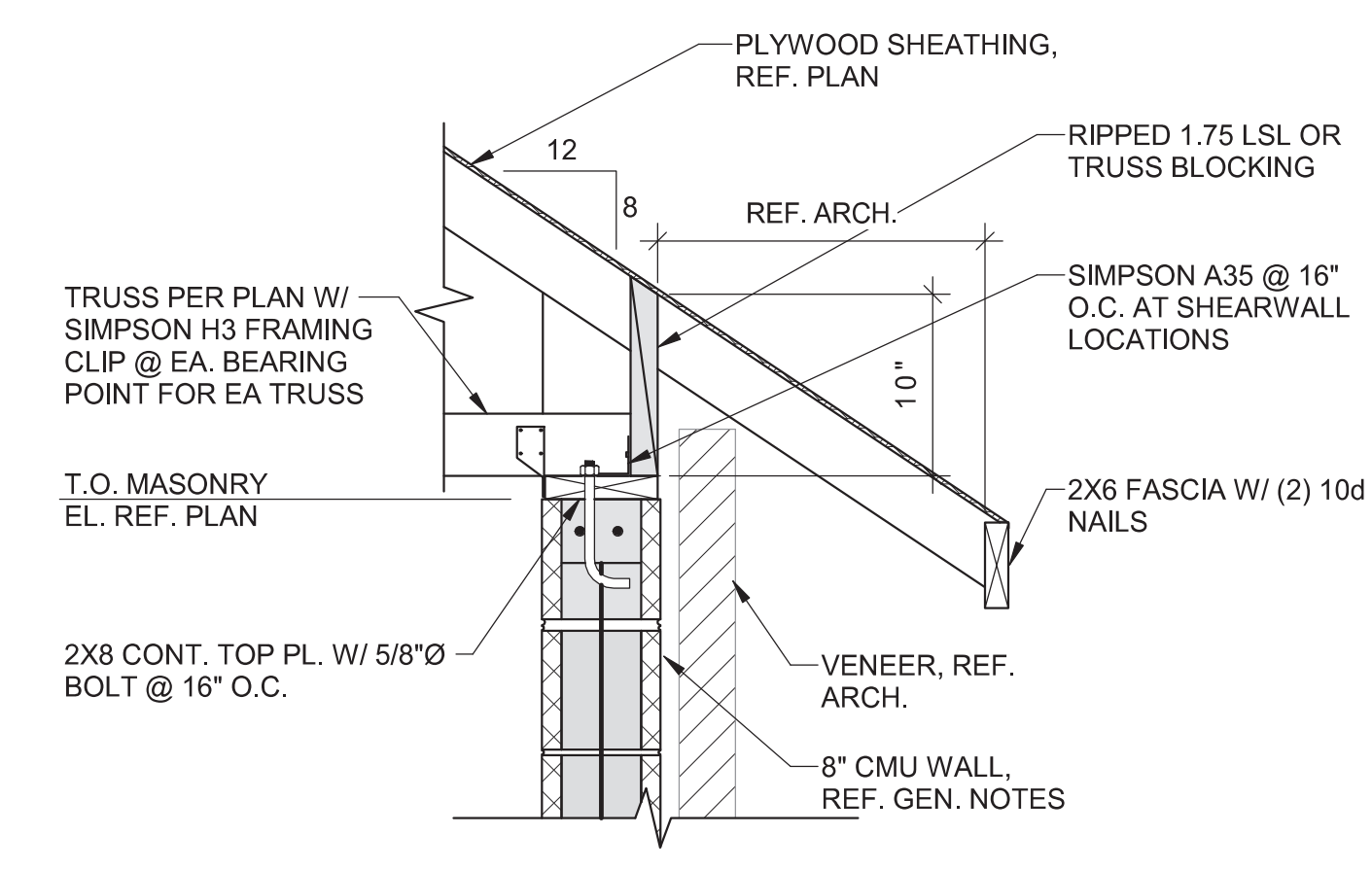
Office of Construction and Facilities Management  
Department of Veterans Affairs



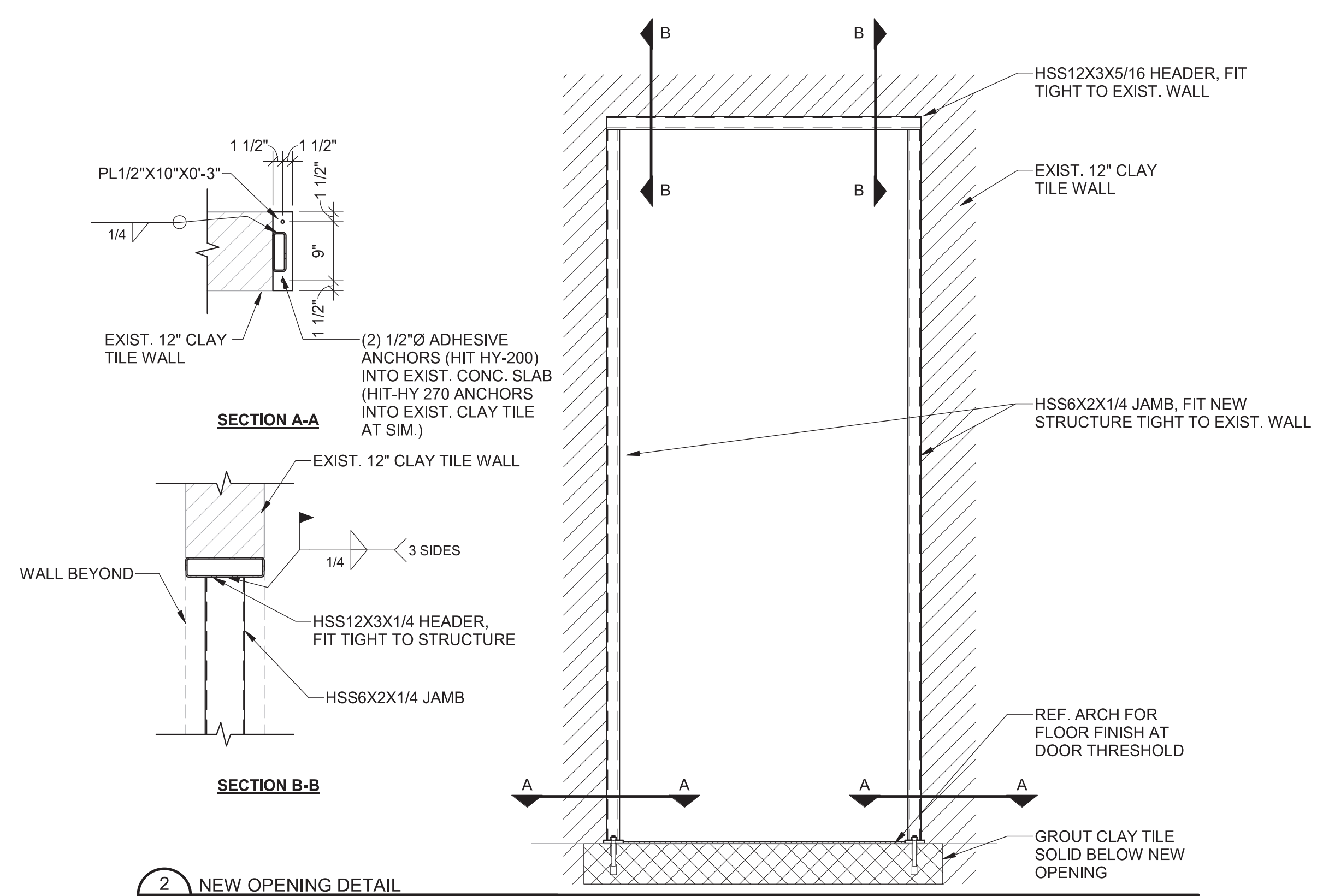




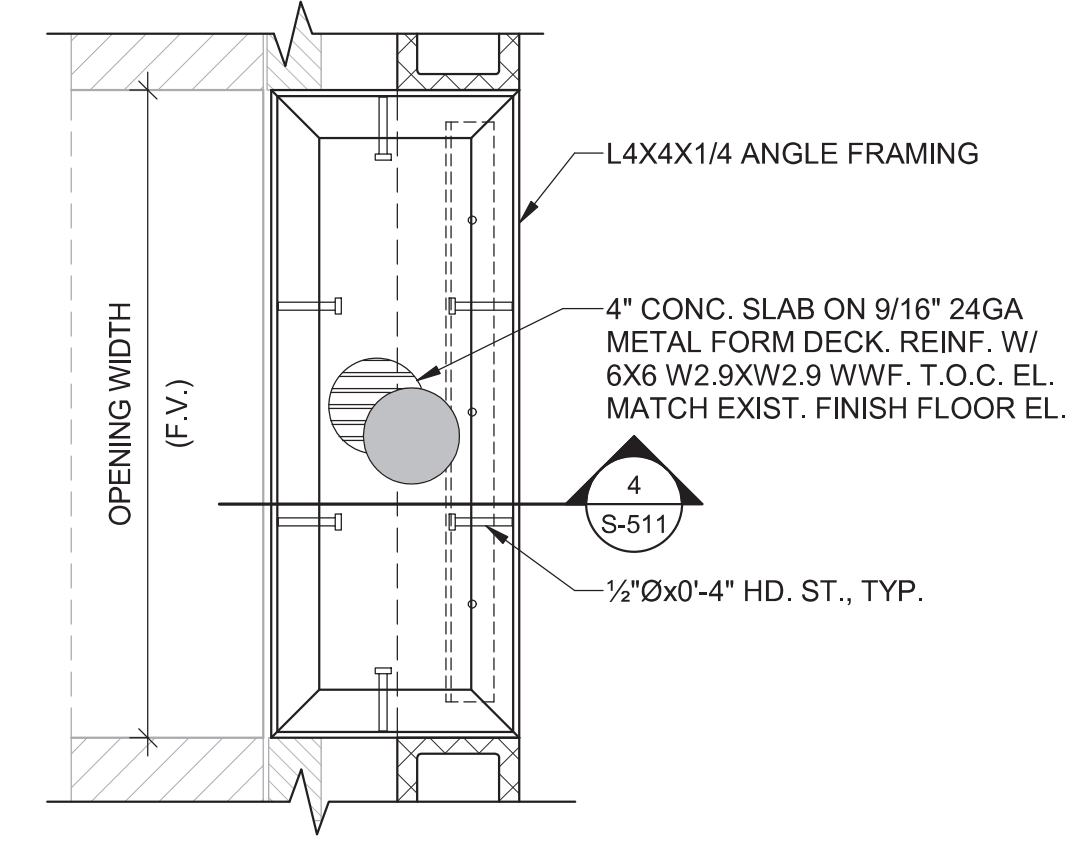
1 ROOF FRAMING DETAIL  
S-511 1" = 1'-0"



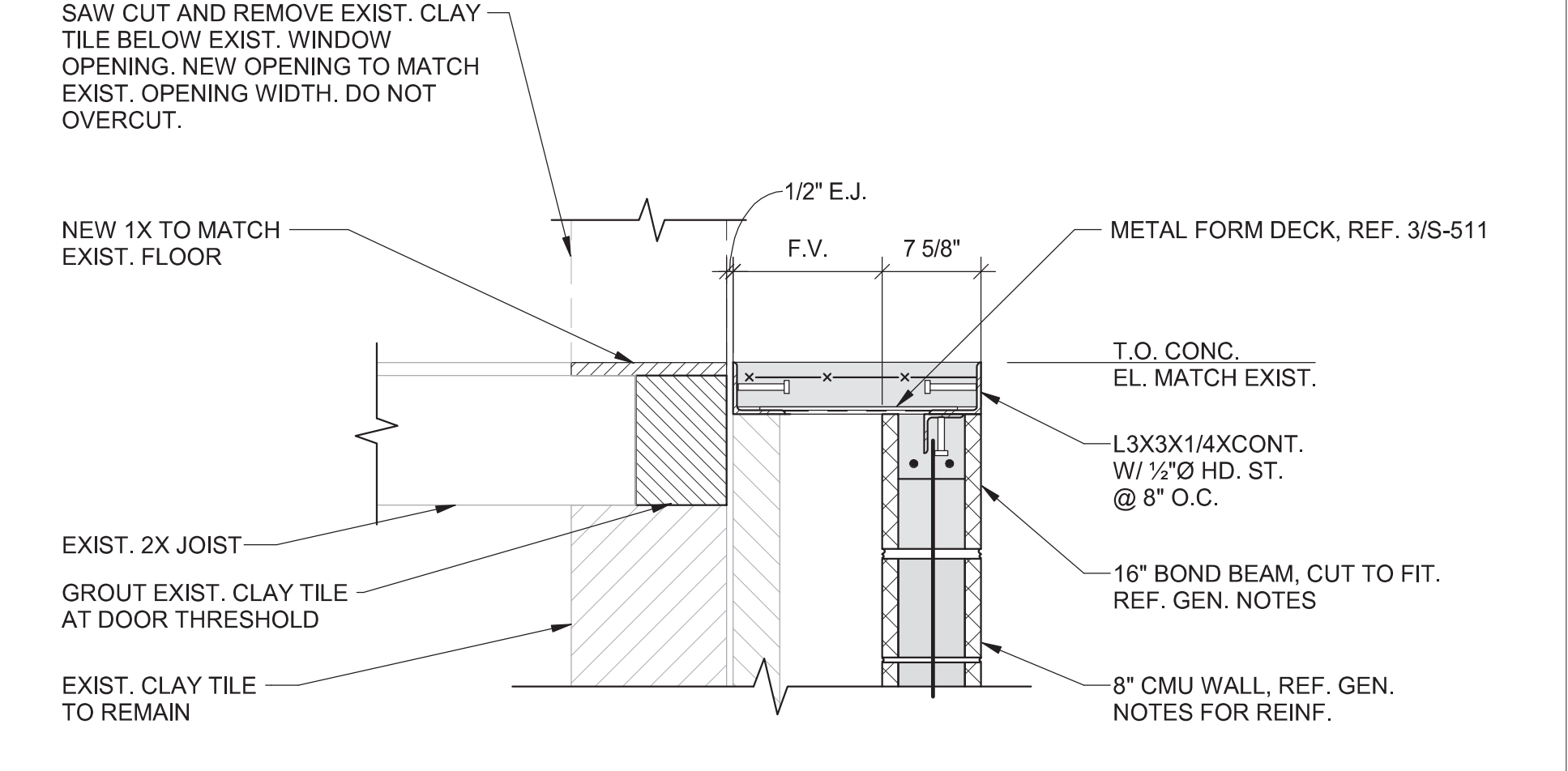
2 NEW OPENING DETAIL  
S-511 3/4" = 1'-0"



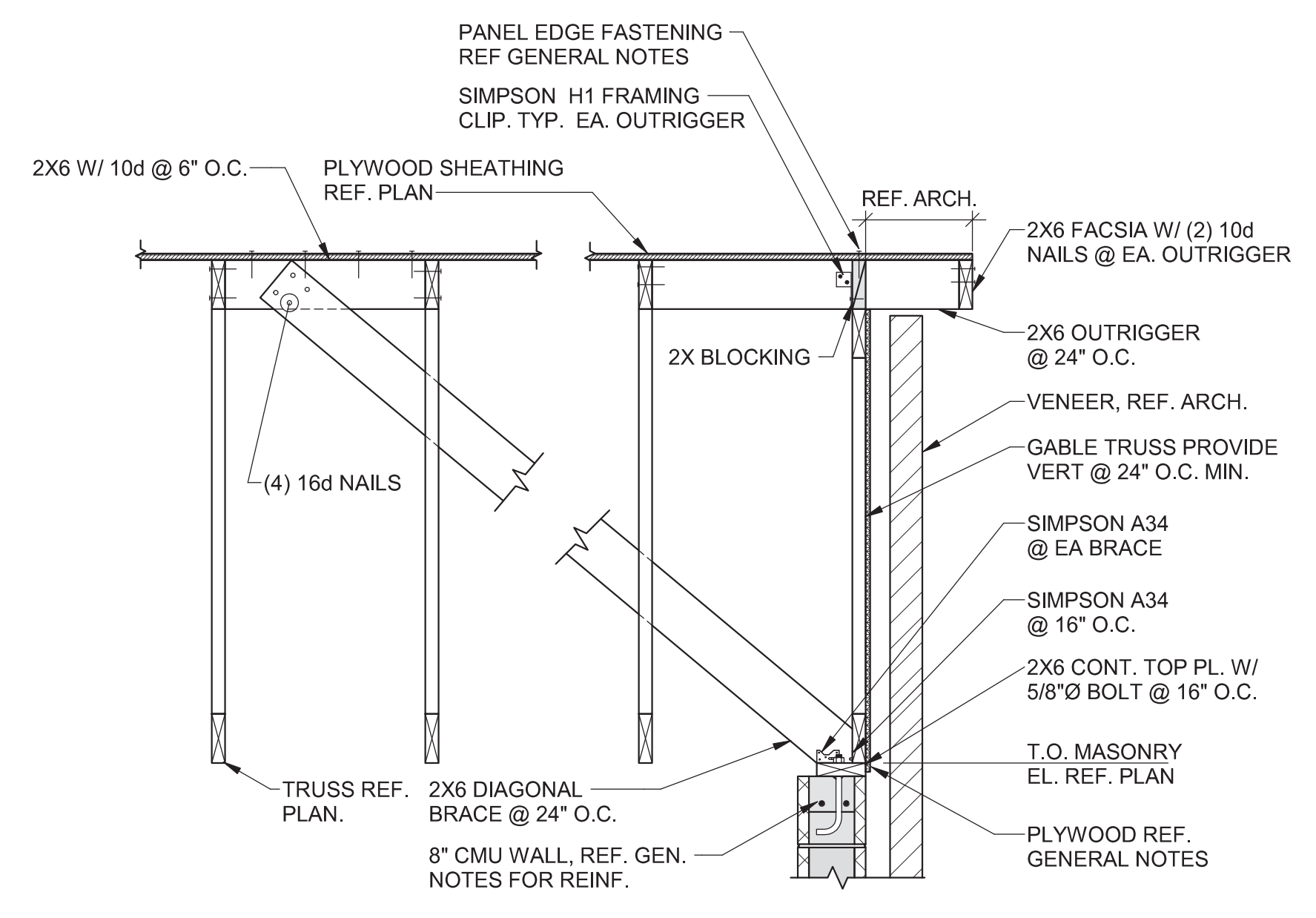
3 ELEVATOR ENTRY ENLARGED FRAMING PLAN  
S-511 1" = 1'-0"



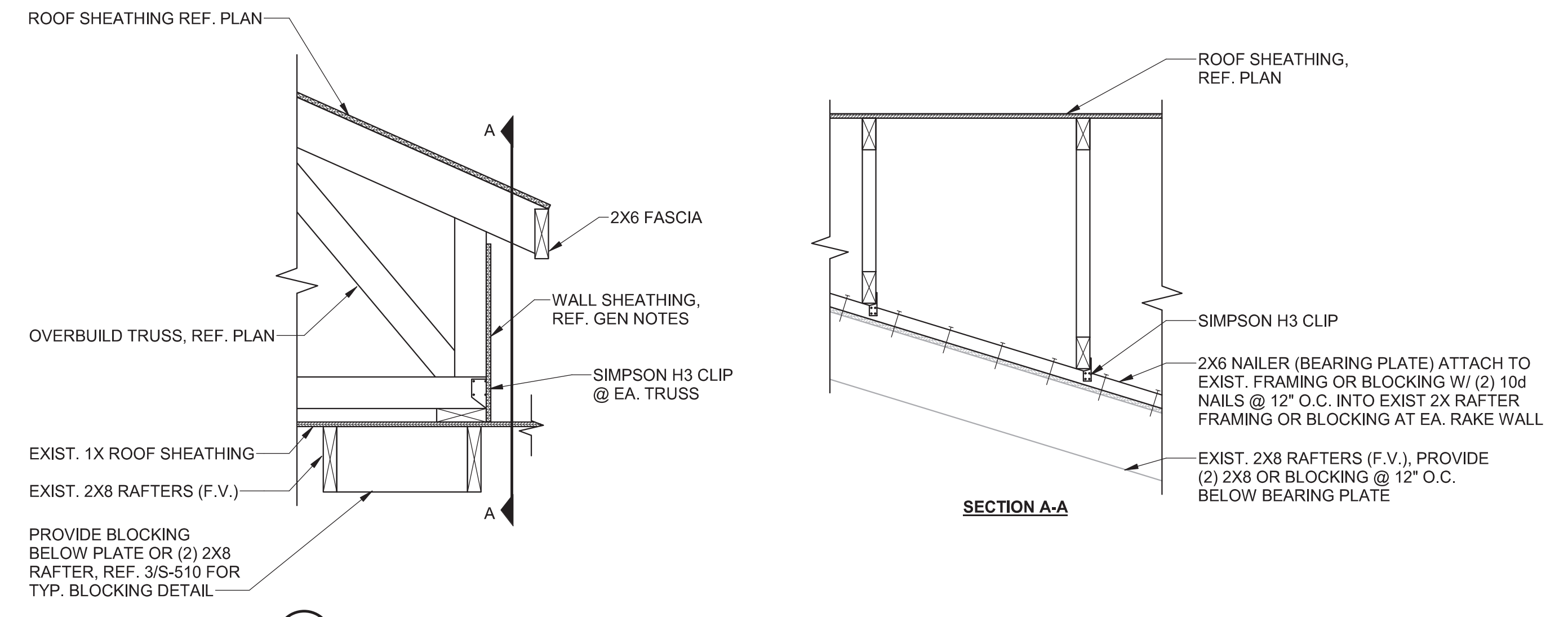
4 ELEVATOR ENTRY DETAIL  
S-511 1" = 1'-0"



5 GABLE END TRUSS  
S-511 3/4" = 1'-0"

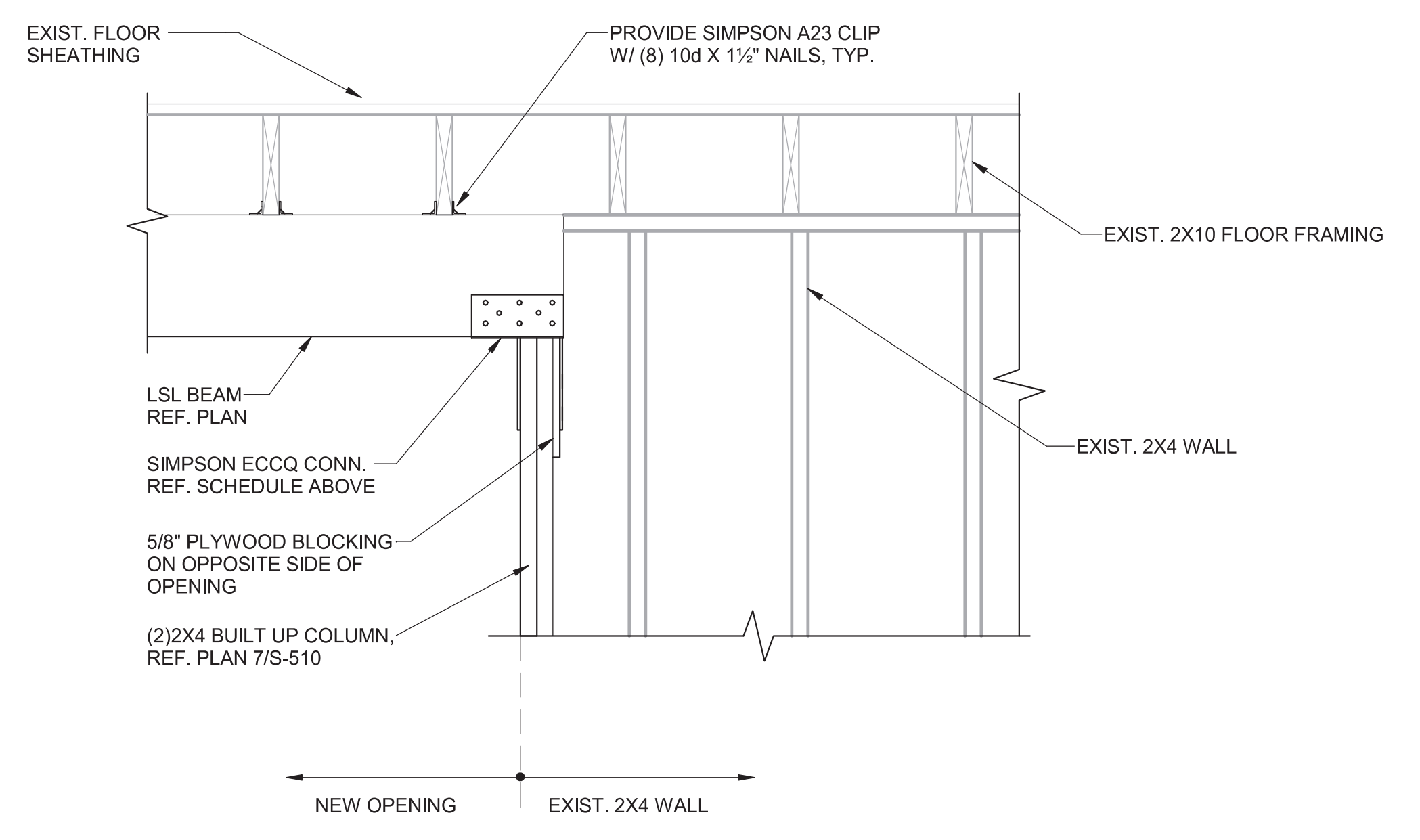


6 ROOF FRAMING DETAIL  
S-511 1" = 1'-0"

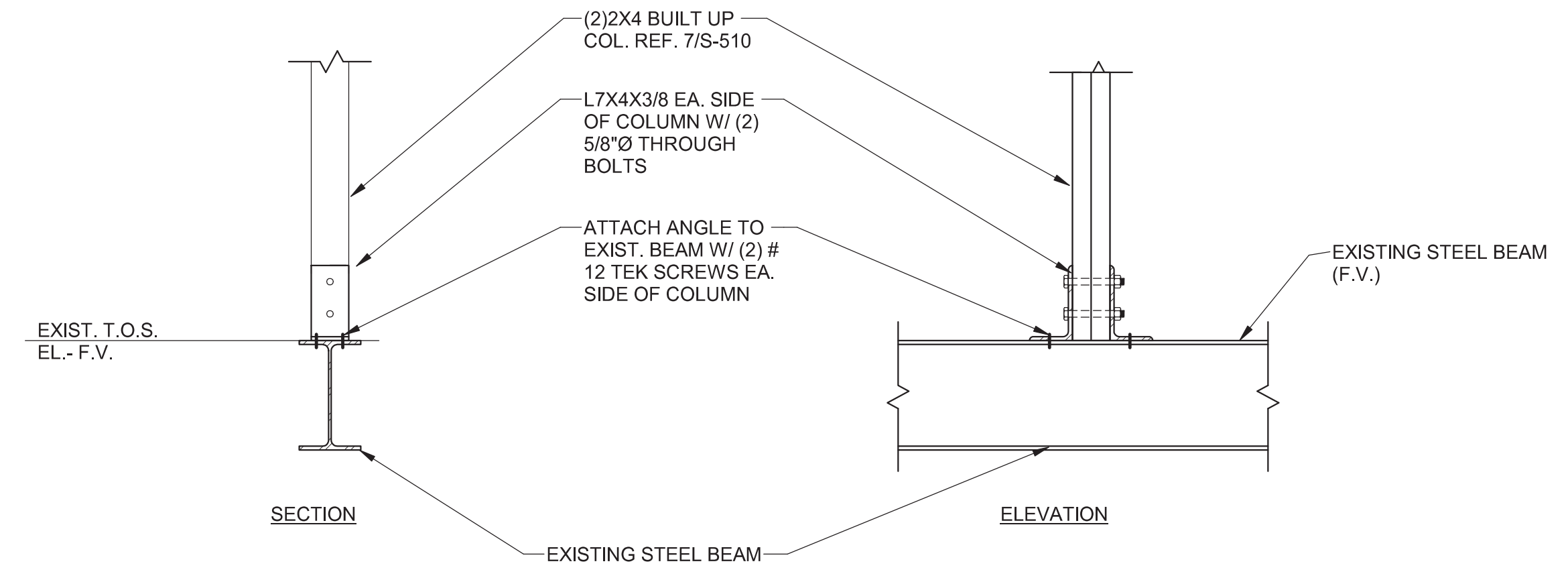


CONNECTOR	BEAM SIZE	COLUMN SIZE	BEAM CONN.	COLUMN CONN.
SIMPSON ECCQ44SDS2.5	3 1/2" X 9 1/4" LSL	(2) 2X4 STUD COL.	(16) 1/4" X 2 1/2" SDS SCREWS	(14) 1/4" X 2 1/2" SDS SCREWS

7 BEAM TO COL. CONN.  
S-511 1" = 1'-0"



8 COL. TO BEAM CONN.  
S-511 1" = 1'-0"



Revisions:	Date

CONSULTANTS:  
..

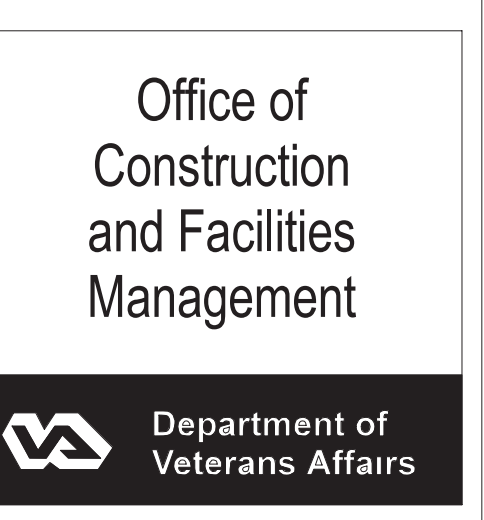


ARCHITECT/ENGINEERS:  
**MHEG**  
ARCHITECTURE  
**PEC**  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 SOUTH TOPEKA WICHITA, KS 67202  
316-262-2891 www.pec1.com

Drawing Title  
**FRAMING DETAILS**  
Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C51081  
Location  
Wichita, Kansas  
Date: 11/19/2018  
Checked: CGH  
Drawn: KDW

Project Number: 589A7-18-301  
Building Number: 7  
Drawing Number: S-511  
Dwg.

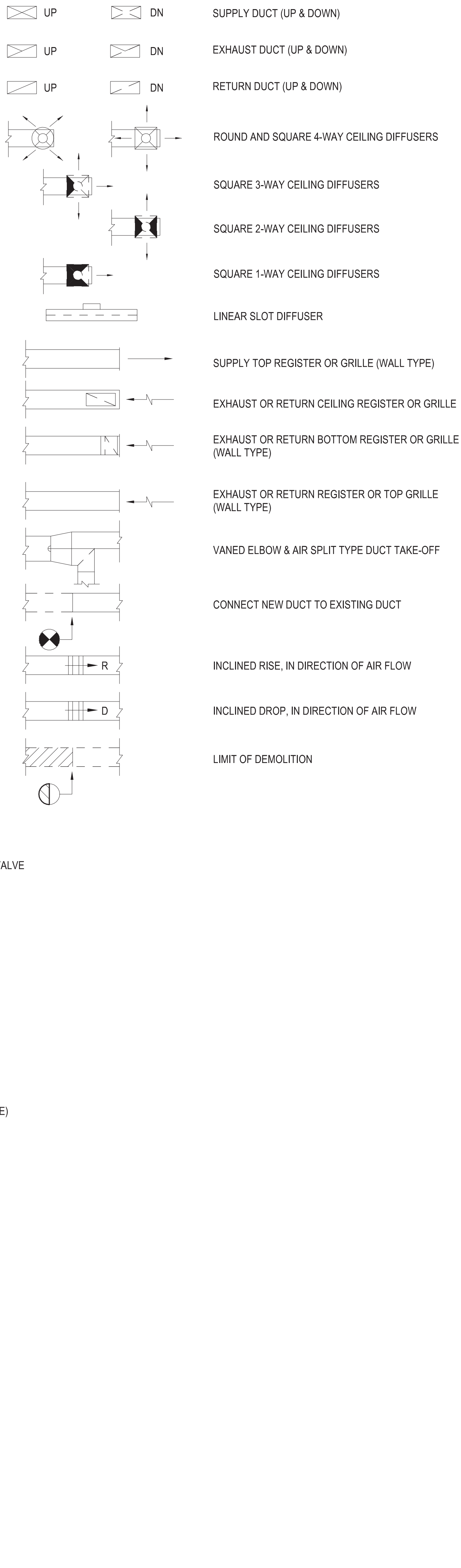




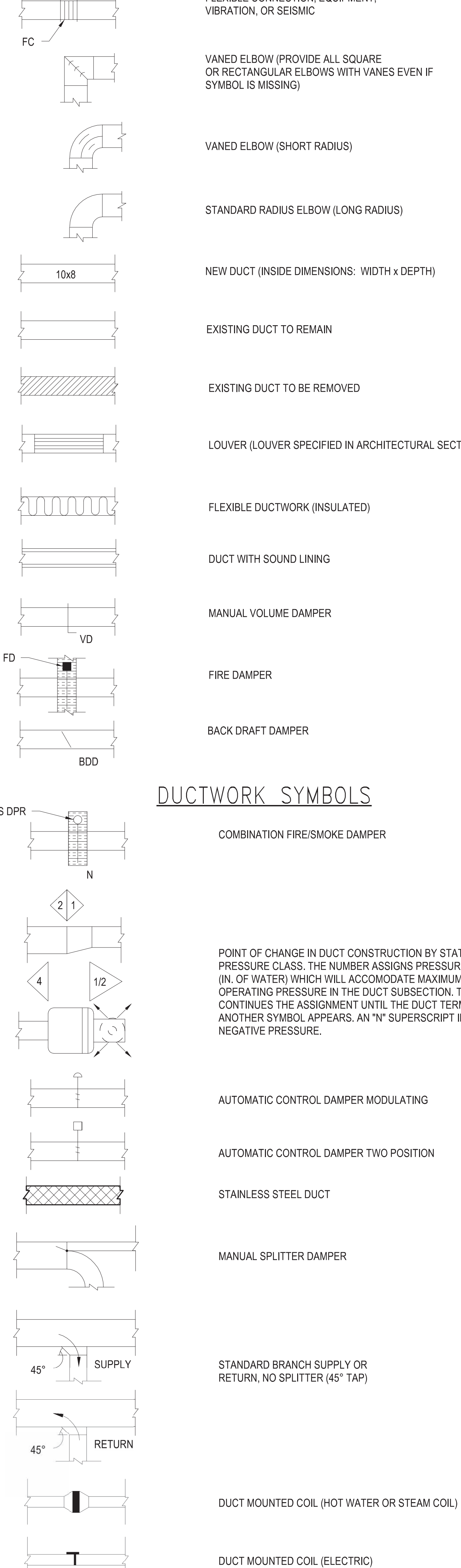
ABBREVIATIONS

Table of abbreviations and their corresponding full names, organized in three columns. Includes terms like ARCHITECT / ENGINEER, AIR TO AIR HEAT EXCHANGER, and various units of measurement.

DUCTWORK SYMBOLS



DUCTWORK SYMBOLS



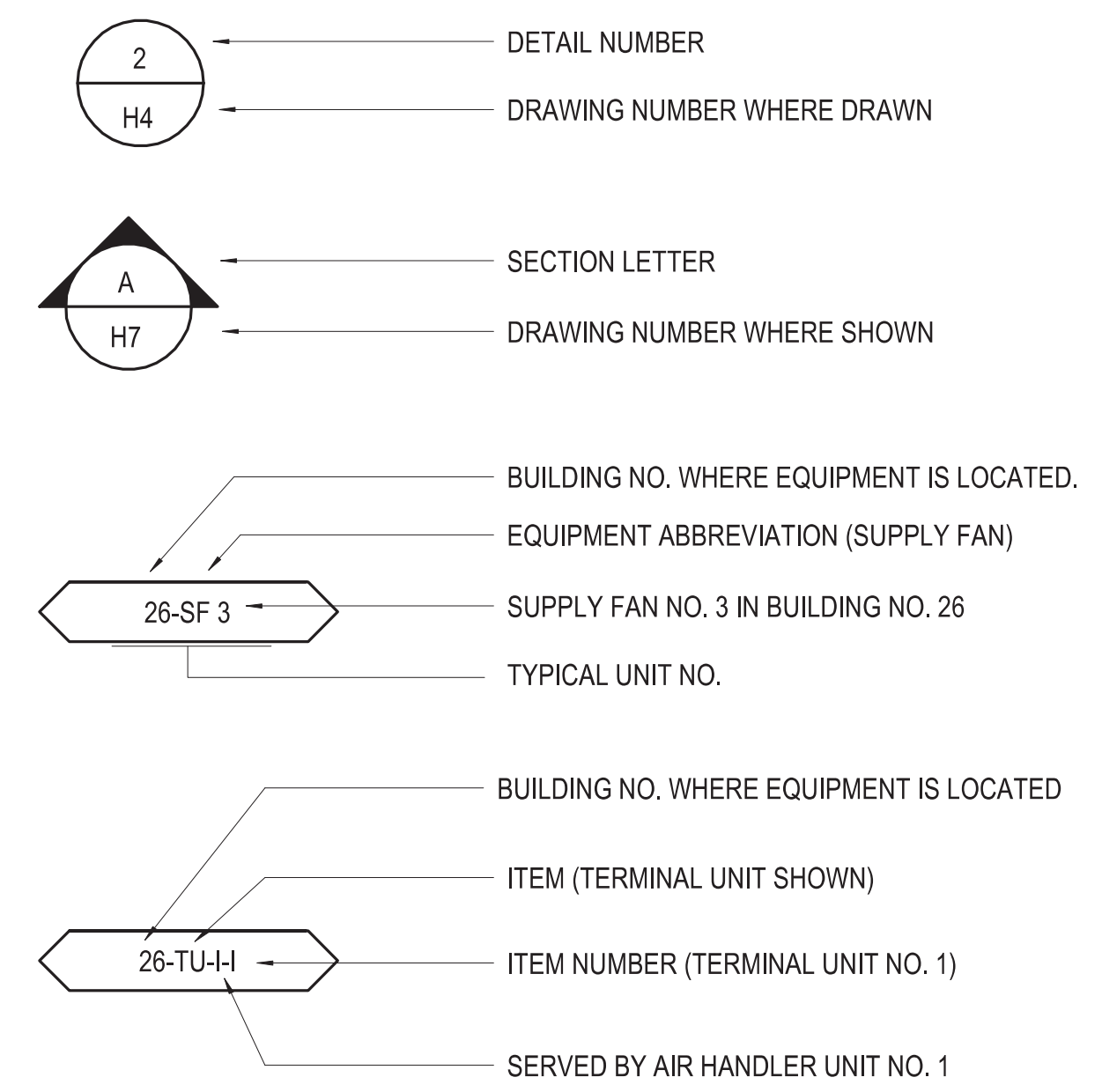
SHEET LIST

Table listing sheet numbers and titles, such as MM001 MECHANICAL COVER SHEET, MD101 MECHANICAL DEMOLITION PLANS - BASEMENT, etc.

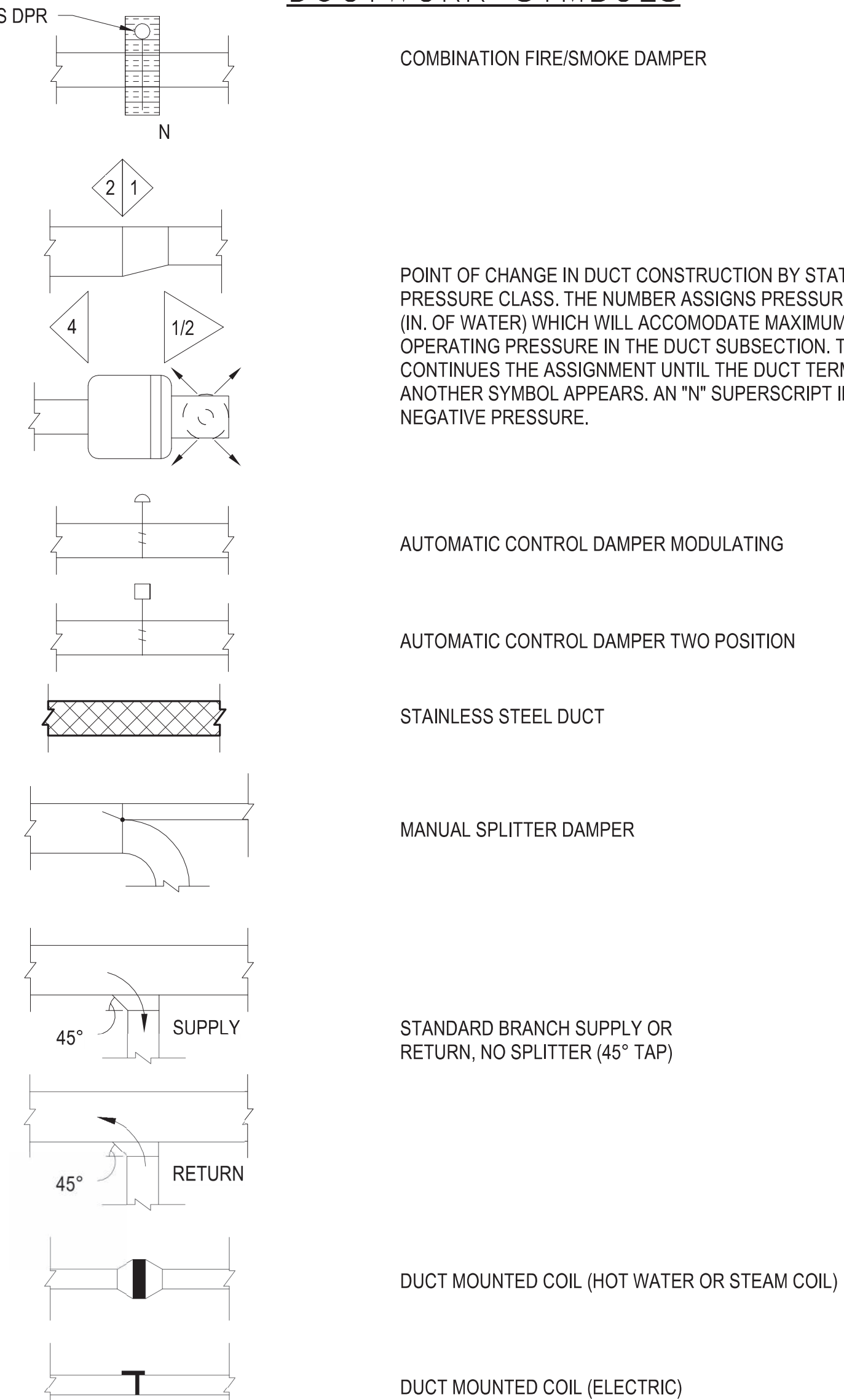
GENERAL NOTES

- List of general notes regarding piping and ducts in finished rooms, duct size dimensions, static pressure, and access panels.

DRAWING SYMBOLS



DUCTWORK SYMBOLS



CONSULTANTS:

Table for listing consultants, including name and date.

ARCHITECT/ENGINEERS:

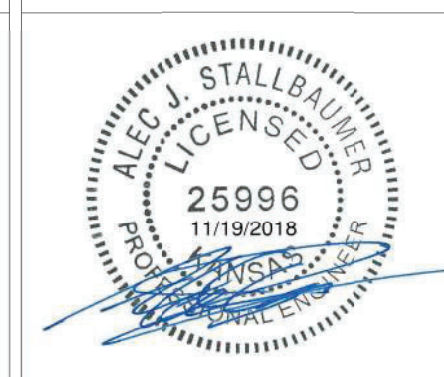
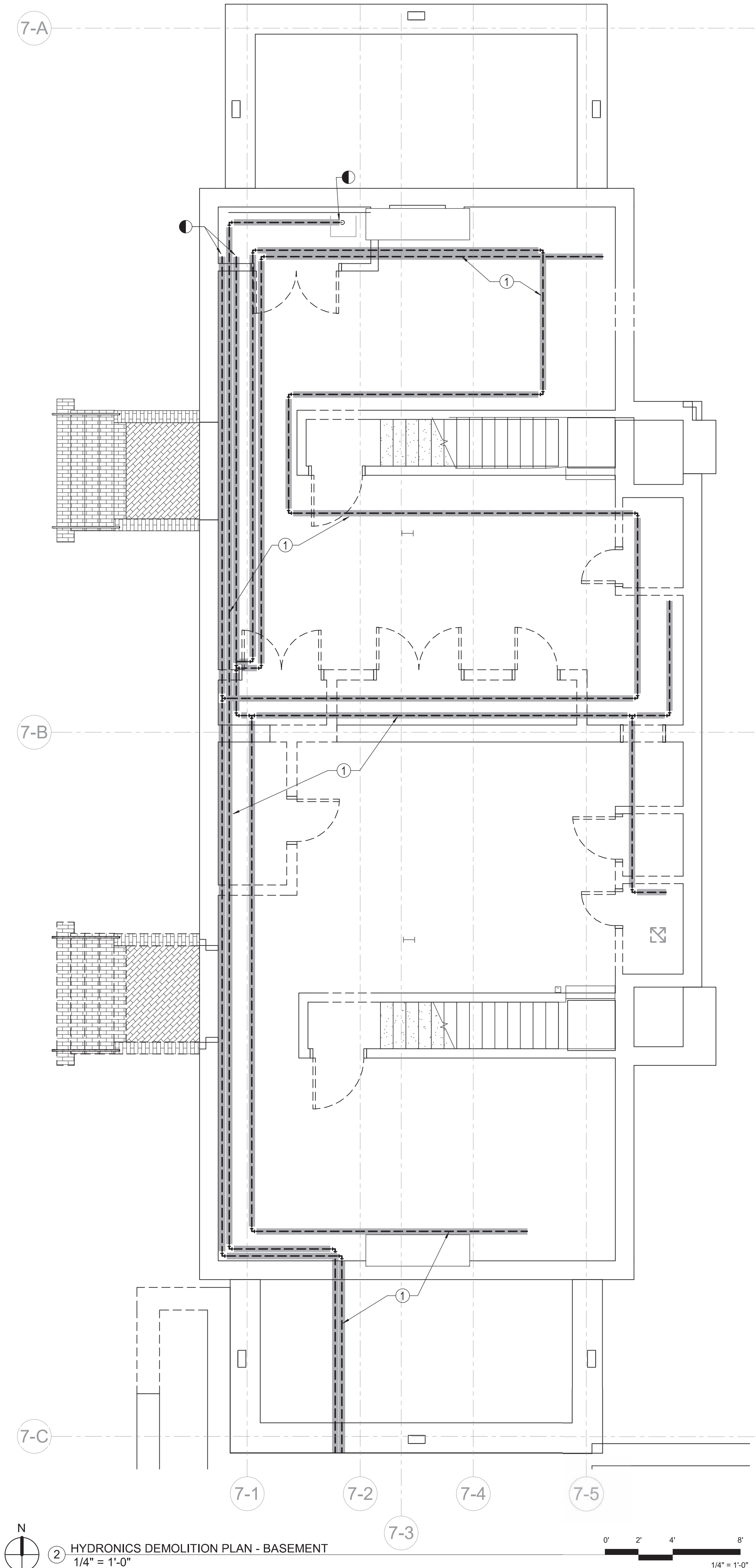


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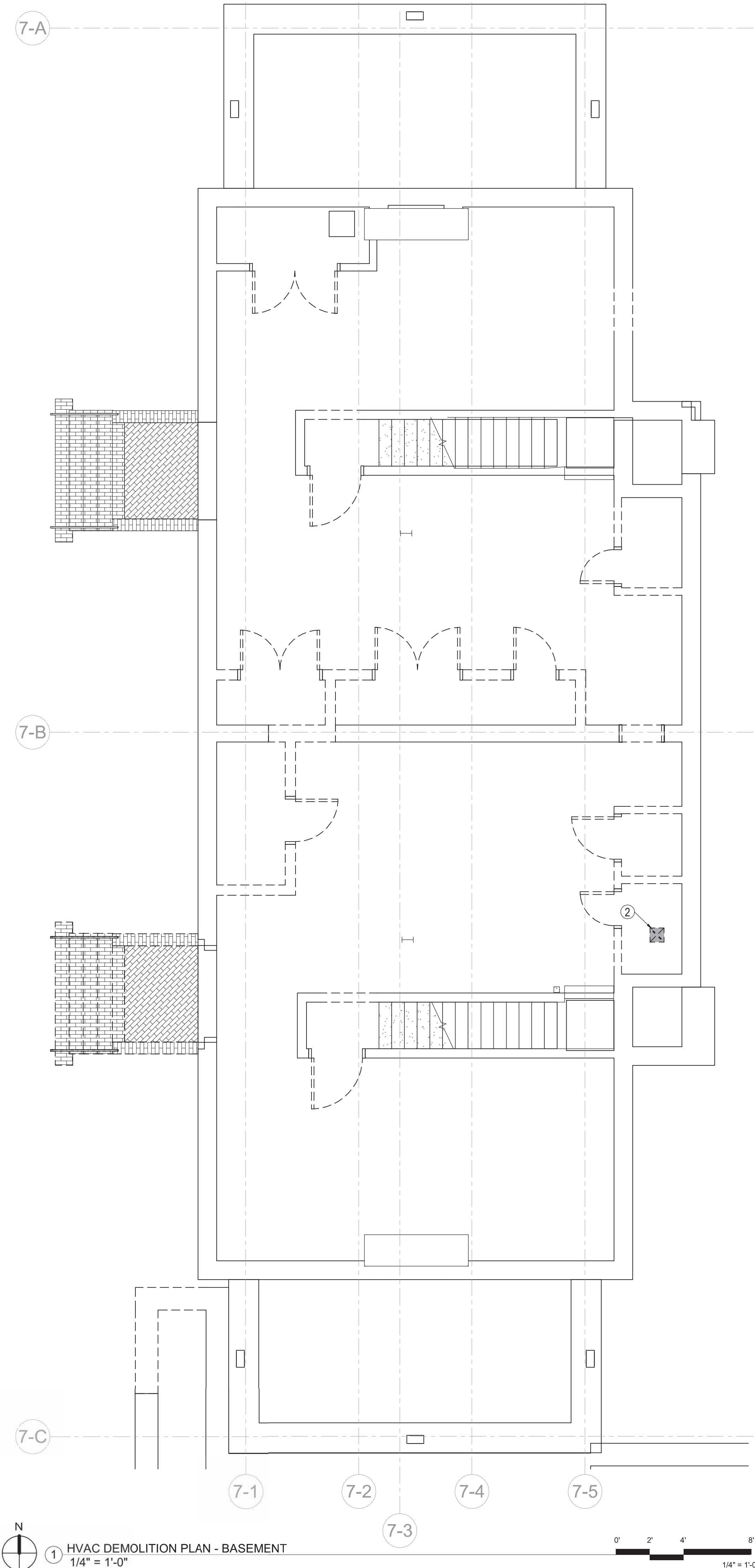
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three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot



② HYDRONICS DEMOLITION PLAN - BASEMENT  
 1/4" = 1'-0"



① HVAC DEMOLITION PLAN - BASEMENT  
 1/4" = 1'-0"

**MECHANICAL DEMO NOTES**

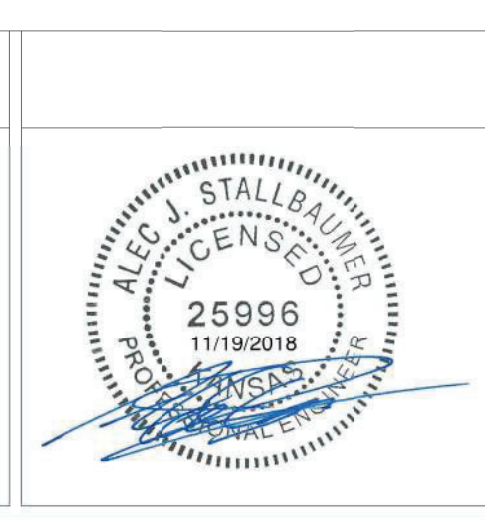
1. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
2. REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF NEW WORK.
3. REMOVAL OF EXISTING DUCTWORK, DIFFUSERS, GRILLES, REGISTERS, PLUMBING FIXTURES, ETC. WILL REQUIRE TEMPORARY CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESSARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION.
4. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT ANY EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
5. ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH FLUID AND PROPERLY VENTED BY THIS CONTRACTOR.
6. COORDINATE WITH OWNER THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALLS, ETC. AS REQUIRED FOR MECHANICAL DEMOLITION WORK.
7. EXISTING DUCTS, PIPING, AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING AND DUCTS SHALL BE CAPPED IN THE NEAREST WALL, CEILING, OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS, ETC. WHERE EQUIPMENT, PIPE AND DUCTS, ETC. ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIAL TO ADJACENT CONSTRUCTION.
8. EXISTING PIPING, FIXTURES, AND EQUIPMENT THAT NOT TO BE REUSED SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE OWNER IF THEY WISH TO RETAIN OWNERSHIP OF THE SAME. IF NOT, EQUIPMENT SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AS SOON AS PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
9. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
10. CUTTING OF STRUCTURAL MEMBERS IS NOT ALLOWED.
11. WHERE EXISTING DUCTS, PIPING, AND EQUIPMENT, ETC. THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
12. ALL CONTRACTORS SHALL GIVE FULL COOPERATION TO THE OWNER IN THE SCHEDULING AND PROCEDURE OF WORK AND SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE FROM FREEZING TO EXISTING SYSTEMS.
13. DEMOLISH ALL DUCTWORK, PIPING, AND EQUIPMENT SHOWN DASHED AND IN A DARK LINE WEIGHT.

**PLAN NOTES**

- ① DEMOLISH SHADED STEAM LINES. STEAM ENTRANCE AND CONDENSATE RECEIVER PUMP TO REMAIN.
- ② DEMOLISH EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK.

Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**MHEG**  
ARCHITECTURE



**Drawing Title**  
**MECHANICAL DEMOLITION PLANS - BASEMENT**

Approved: Project Director

**Project Title**  
 RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
 Contract No.: VA255-17-D-0080  
 Task Order No.: 36C25518N1024  
 Obligation No.: 589-C81081

**Location**  
 Wichita, Kansas

Date: 11/19/2018  
 Checked: CDF  
 Drawn: AJS

**Project Number**  
 589A7-18-301

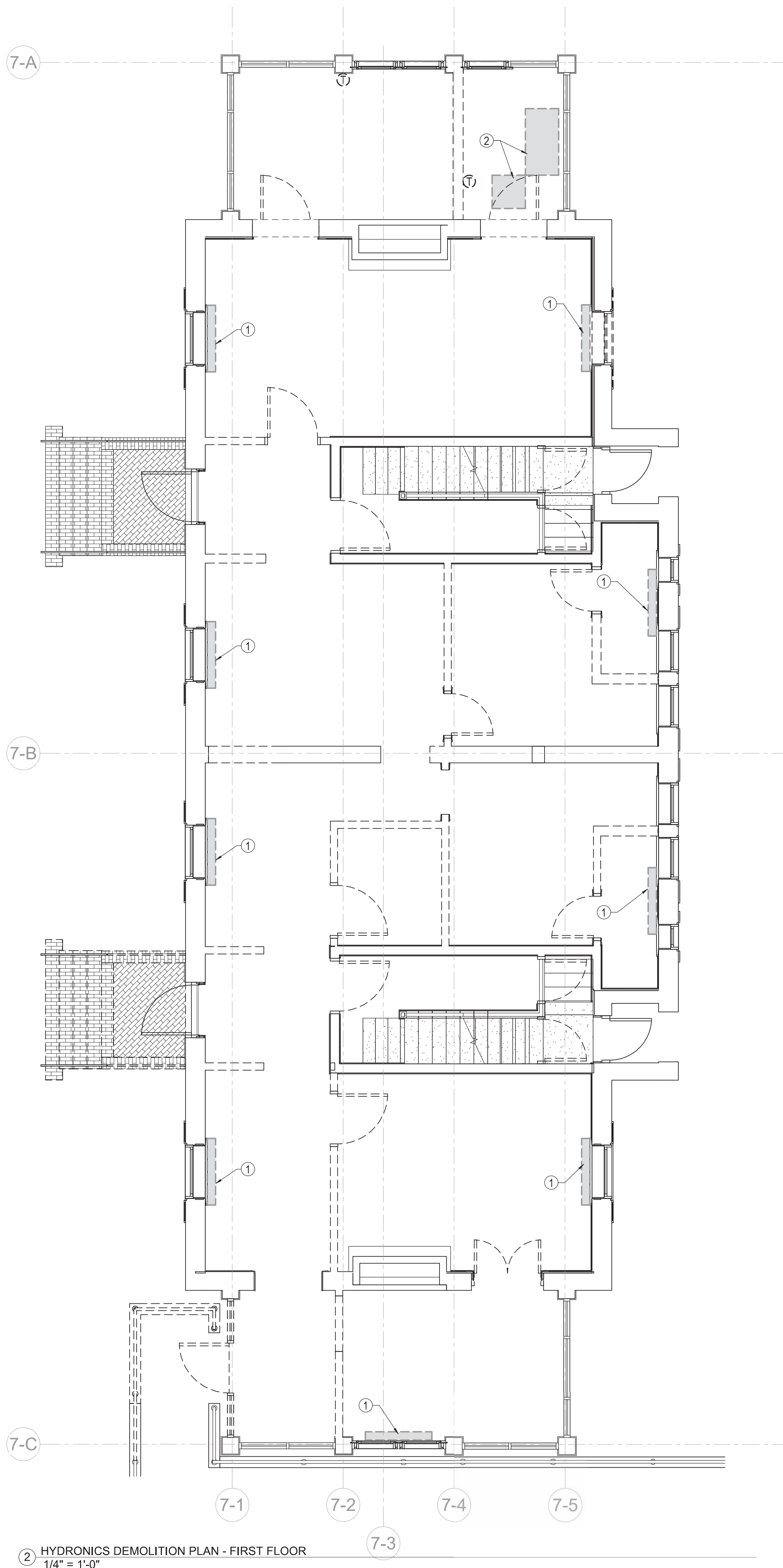
**Building Number**  
 7

**Drawing Number**  
**MD101**

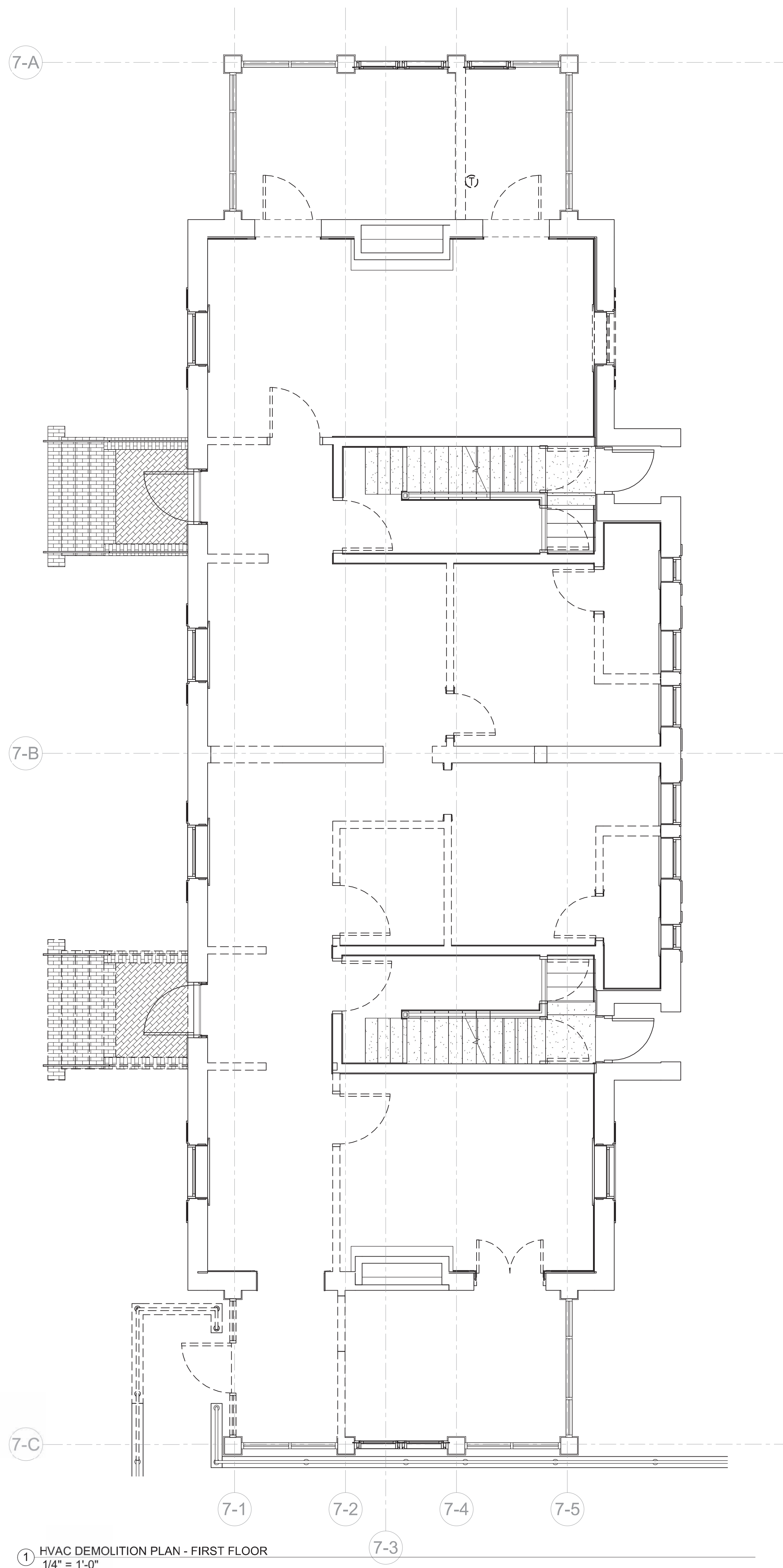
Office of Construction and Facilities Management

Department of Veterans Affairs

three inches = one foot  
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 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot



② HYDRONICS DEMOLITION PLAN - FIRST FLOOR  
1/4" = 1'-0"



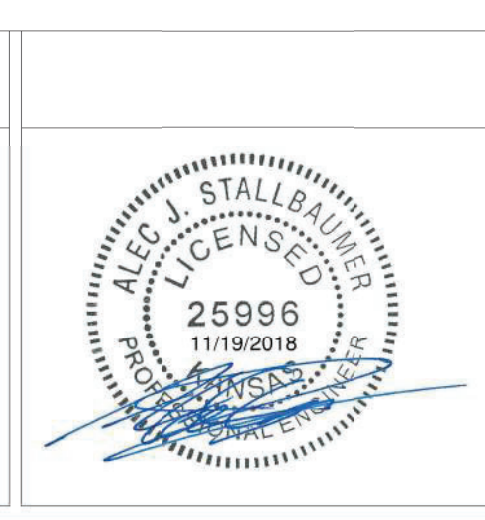
① HVAC DEMOLITION PLAN - FIRST FLOOR  
1/4" = 1'-0"

- MECHANICAL DEMO NOTES**
- PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
  - REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF NEW WORK.
  - REMOVAL OF EXISTING DUCTWORK, DIFFUSERS, GRILLES, REGISTERS, PLUMBING FIXTURES, ETC. WILL REQUIRE TEMPORARY CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESSARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION.
  - CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT ANY EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
  - ALL DRAINED PIPING RISERS AND MAINS SHALL BE FILLED WITH FLUID AND PROPERLY VENTED BY THIS CONTRACTOR.
  - COORDINATE WITH OWNER THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALLS, ETC. AS REQUIRED FOR MECHANICAL DEMOLITION WORK.
  - EXISTING DUCTS, PIPING, AND EQUIPMENT, ETC. NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING AND DUCTS SHALL BE CAPPED IN THE NEAREST WALL, CEILING, OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS, ETC. WHERE EQUIPMENT, PIPE AND DUCTS, ETC. ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIAL TO ADJACENT CONSTRUCTION.
  - EXISTING PIPING, FIXTURES, AND EQUIPMENT THAT NOT TO BE REUSED SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE OWNER IF THEY WISH TO RETAIN OWNERSHIP OF THE SAME. IF NOT, EQUIPMENT SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AS SOON AS PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
  - ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
  - CUTTING OF STRUCTURAL MEMBERS IS NOT ALLOWED.
  - WHERE EXISTING DUCTS, PIPING, AND EQUIPMENT, ETC. THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
  - ALL CONTRACTORS SHALL GIVE FULL COOPERATION TO THE OWNER IN THE SCHEDULING AND PROCEDURE OF WORK AND SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE FROM FREEZING TO EXISTING SYSTEMS.
  - DEMOLISH ALL DUCTWORK, PIPING, AND EQUIPMENT SHOWN DASHED AND IN A DARK LINE WEIGHT.

- PLAN NOTES**
- DEMOLISH EXISTING STEAM RADIATOR, ASSOCIATED STEAM PIPING, AND CONTROLS.
  - DEMOLISH EXISTING RADIATOR PANELS AND CONTROLS.

Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**MHEG**  
ARCHITECTURE



**PEC**  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 SOUTH TOPEKA WICHITA, KS 67202  
316-262-2691 www.pec1.com

Drawing Title  
**MECHANICAL DEMOLITION PLANS - FIRST FLOOR**

Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
Wichita, Kansas

Date  
11/19/2018

Checked  
CDF

Drawn  
AJS

Project Number  
589A7-18-301

Building Number  
7

Drawing Number  
**MD102**

Dwg.

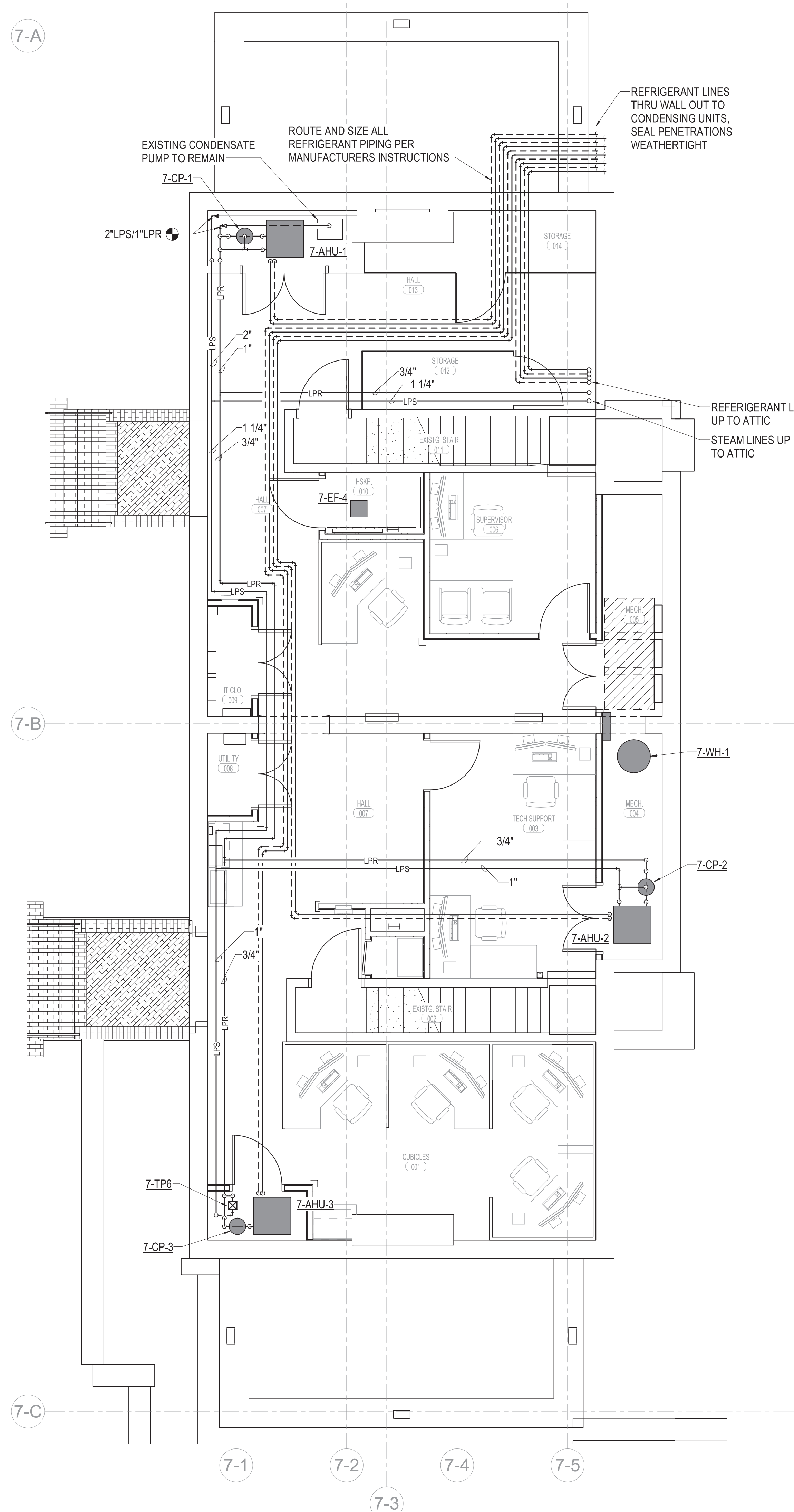
Office of Construction and Facilities Management

Department of Veterans Affairs

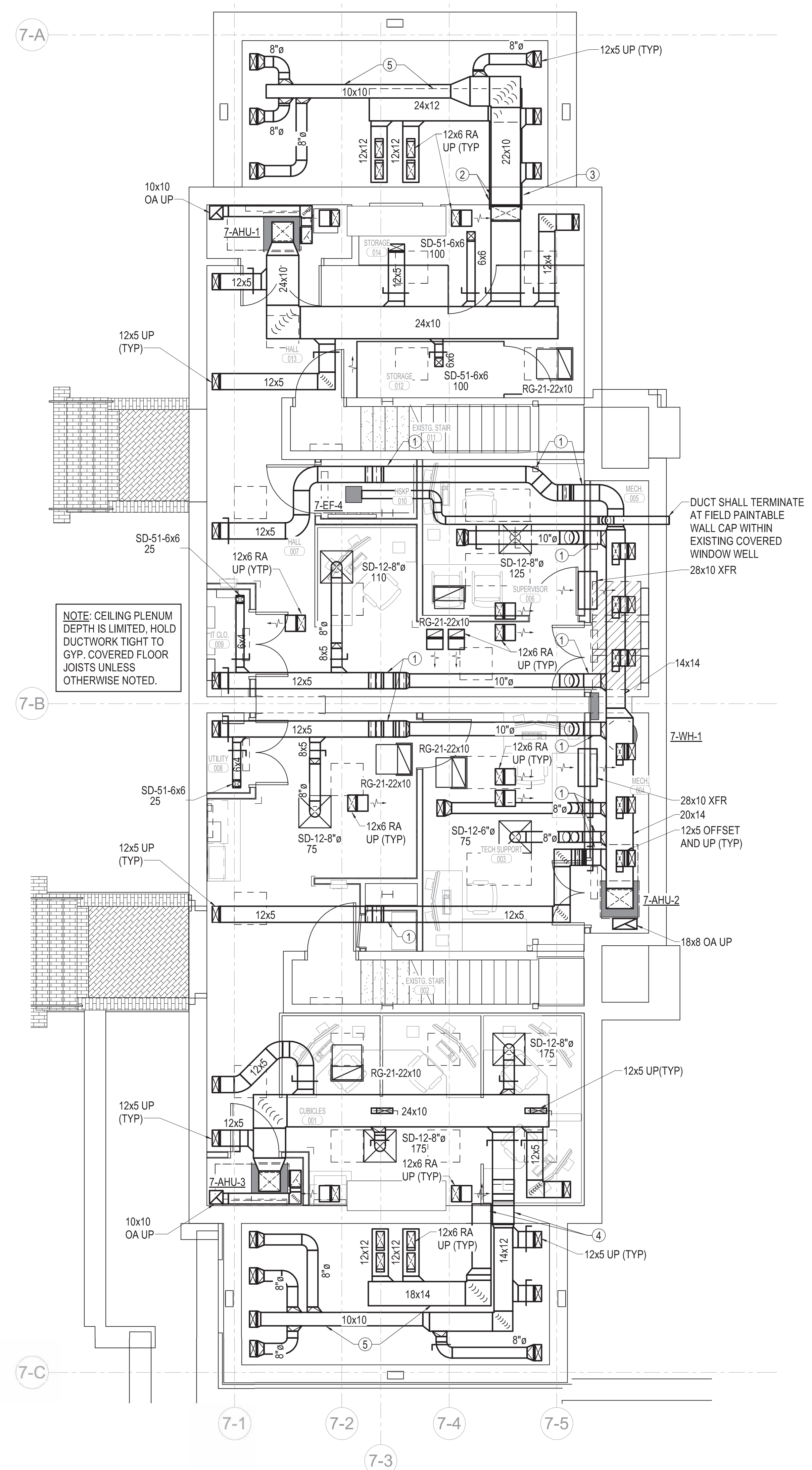








1 HYDRONICS PLAN - BASEMENT - BID ITEM 5  
1/4" = 1'-0"



2 HVAC PLAN - BASEMENT - BID ITEM 5  
1/4" = 1'-0"

**MECHANICAL GENERAL NOTES**

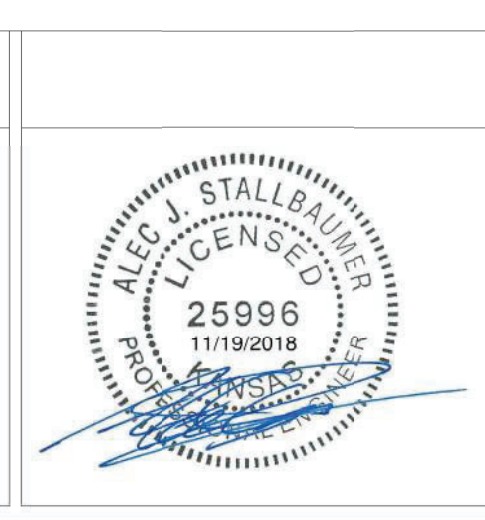
1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
2. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
3. ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH FLUID AND PROPERLY VENTED BY THIS CONTRACTOR. ONCE NEW WORK HAS BEEN INSTALLED.
4. COORDINATE WITH THE OWNER THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILING, WALL, ETC. AS REQUIRED FOR MECHANICAL DEMOLITION WORK.
5. ALL CUTTING AND CHANNELING OF EXISTING NON-STRUCTURAL ELEMENTS SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
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9. CAP ALL EXISTING DUCTWORK SHOWN TO BE DISCONNECTED AND NOT RE-USED.
10. COORDINATE ROUTING OF PLUMBING AND HVAC PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET, AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE.
11. ANY EXPENSES ARISING FROM LACK OF COORDINATION SHALL BE AT CONTRACTOR'S EXPENSE. ALL DUCT AND PIPE ELEVATIONS SHOWN IN PARENTHESIS ARE BOTTOM OF DUCT OR PIPE UNLESS INDICATED OTHERWISE ON PLANS.
12. ALL SUPPLY, RETURN, AND EXHAUST BRANCHES TO GRILLES, REGISTERS, AND DIFFUSERS SHALL HAVE A MANUAL BALANCE DAMPER.
13. CEILING PLENUM IS USED FOR RETURN AIR. KEEP PLENUM FREE OF COMBUSTIBLES, PVC PIPING, AND ANY OTHER MATERIALS NOT ALLOWED BY THE INTERNATIONAL FIRE CODE.

**PLAN NOTES**

1. DROP DUCT TO ROUTE BENEATH EXISTING BEAM THIS LOCATION.
2. ROUTE DUCTS THRU EXISTING CRAWL SPACE OPENING. REFER TO ARCHITECTURAL DRAWINGS FOR WALL FILL OF OPENING.
3. RETURN DUCT ROUTED BENEATH SUPPLY DUCT AND OPEN TO SOFFIT.
4. ROUTE DUCTS THRU ENLARGED CRAWL SPACE OPENING. REFER TO ARCHITECTURAL DRAWINGS FOR WALL FILL OF OPENING.
5. DUCTWORK INSTALLED IN NON-VENTILATED ATTIC SPACE WILL REQUIRE OUTDOOR INSULATION TO BE INSTALLED ON DUCTWORK (REFERENCE SPECS).

Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**MHEG**  
ARCHITECTURE



Drawing Title  
**MECHANICAL PLANS - BASEMENT - BID ITEM 5**

Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7

Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date  
**11/19/2018**

Checked  
CDF

Drawn  
AJS

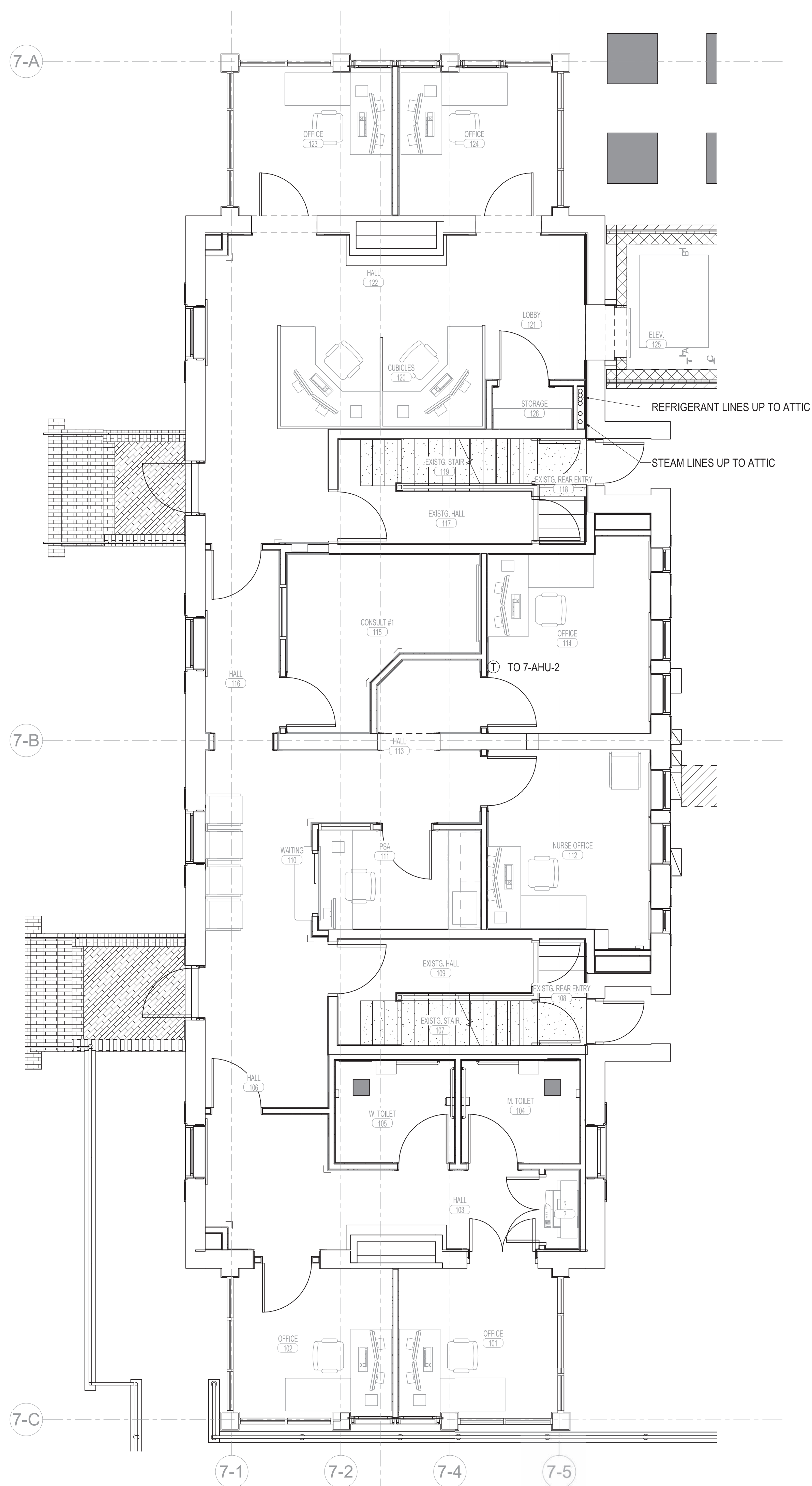
Project Number  
**589A7-18-301**

Building Number  
**7**

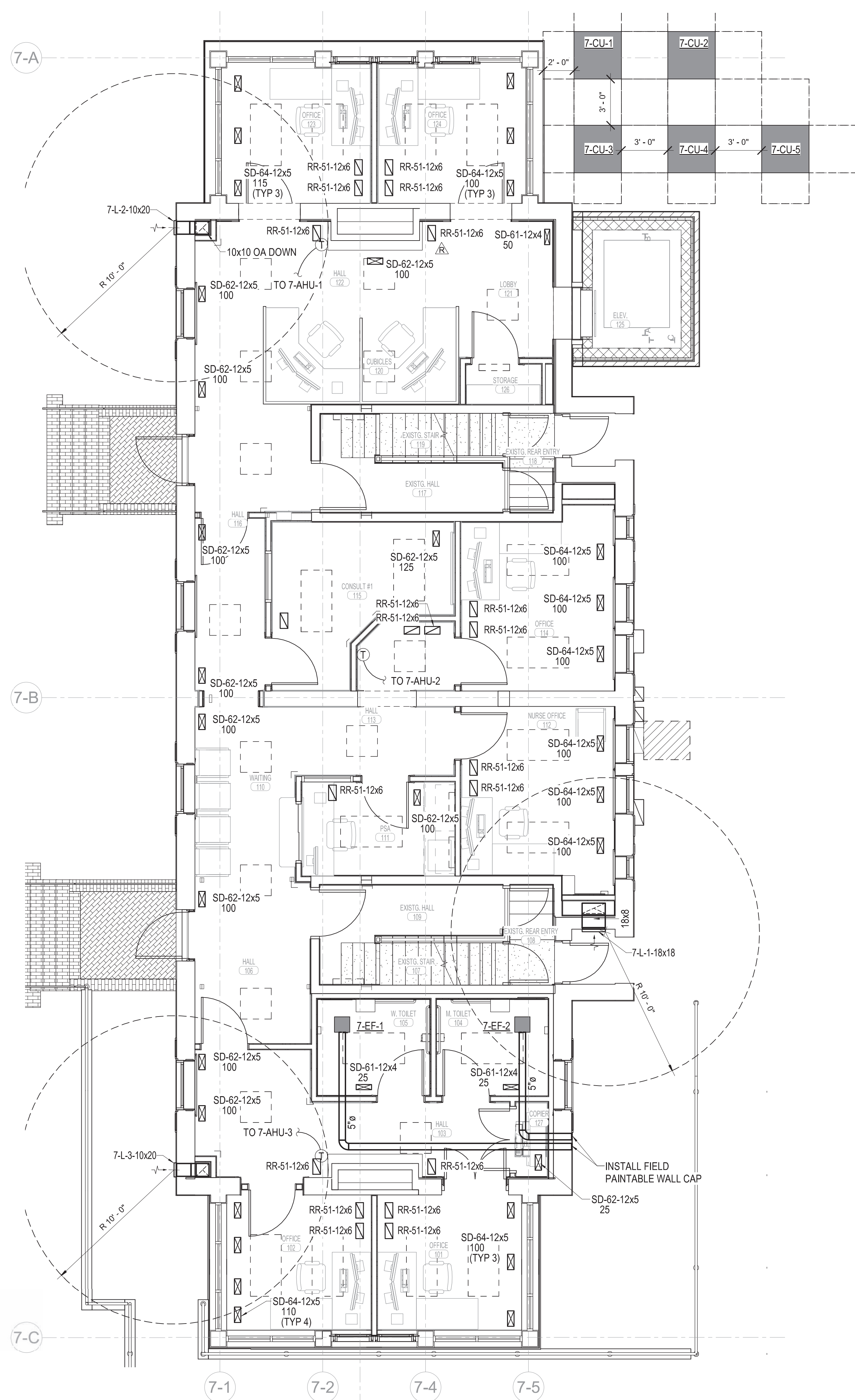
Drawing Number  
**MH101.5**

Dwg.





2 HYDRONICS PLAN - FIRST FLOOR  
1/4" = 1'-0"

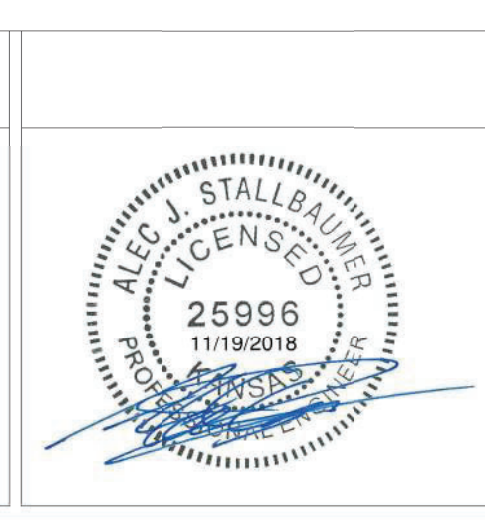


1 HVAC PLAN - FIRST FLOOR  
1/4" = 1'-0"

- MECHANICAL GENERAL NOTES**
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
  - CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
  - ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH FLUID AND PROPERLY VENTED BY THIS CONTRACTOR ONCE NEW WORK HAS BEEN INSTALLED.
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  - CEILING PLENUM IS USED FOR RETURN AIR. KEEP PLENUM FREE OF COMBUSTIBLES, PVC PIPING, AND ANY OTHER MATERIALS NOT ALLOWED BY THE INTERNATIONAL FIRE CODE.

Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**MHEG**  
ARCHITECTURE



Drawing Title  
**MECHANICAL PLANS - FIRST FLOOR**

Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date  
**11/19/2018**

Checked  
CDF

Drawn  
AJS

Project Number  
**589A7-18-301**

Building Number  
**7**

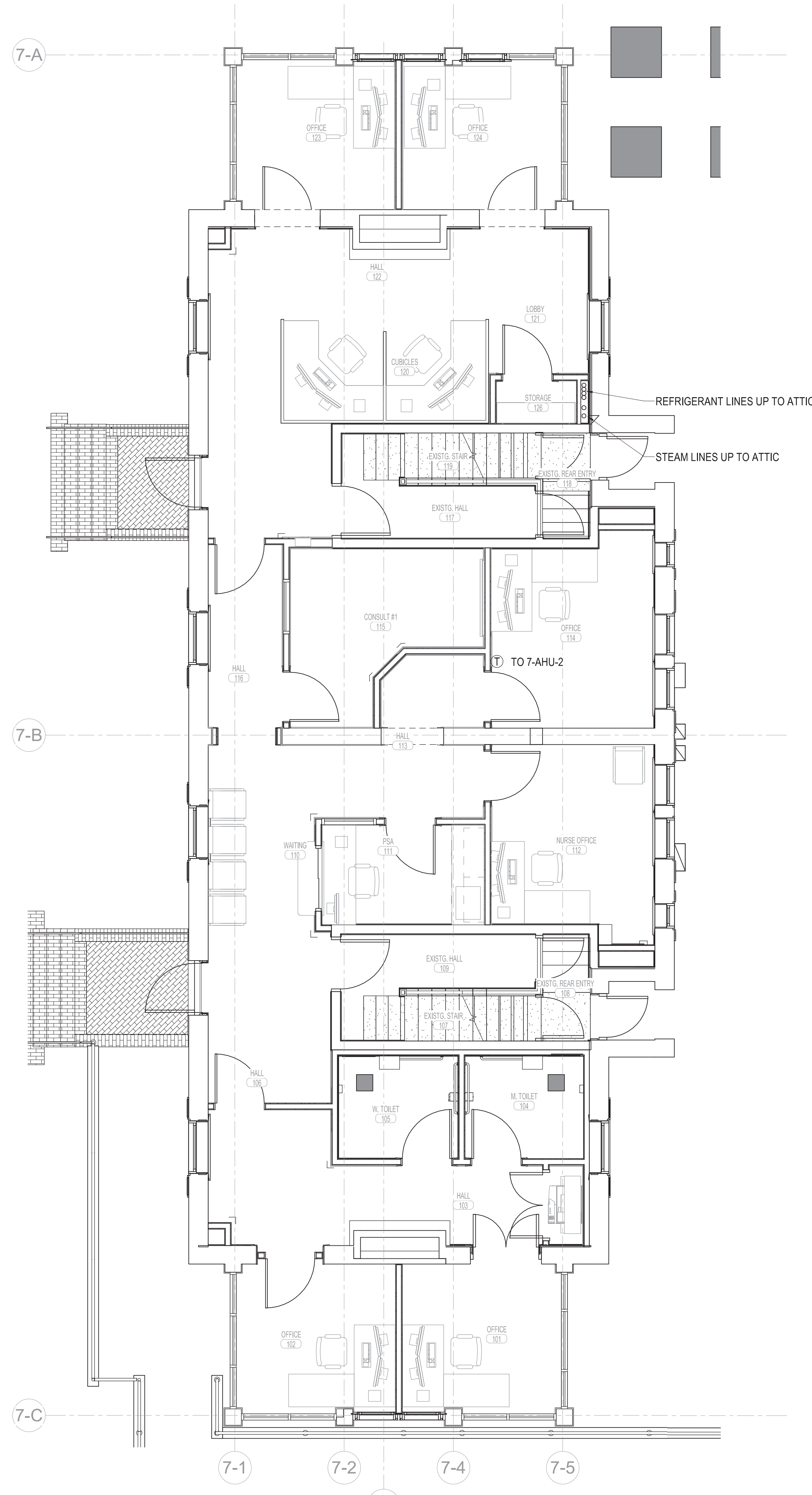
Drawing Number  
**MH102**

Dwg.

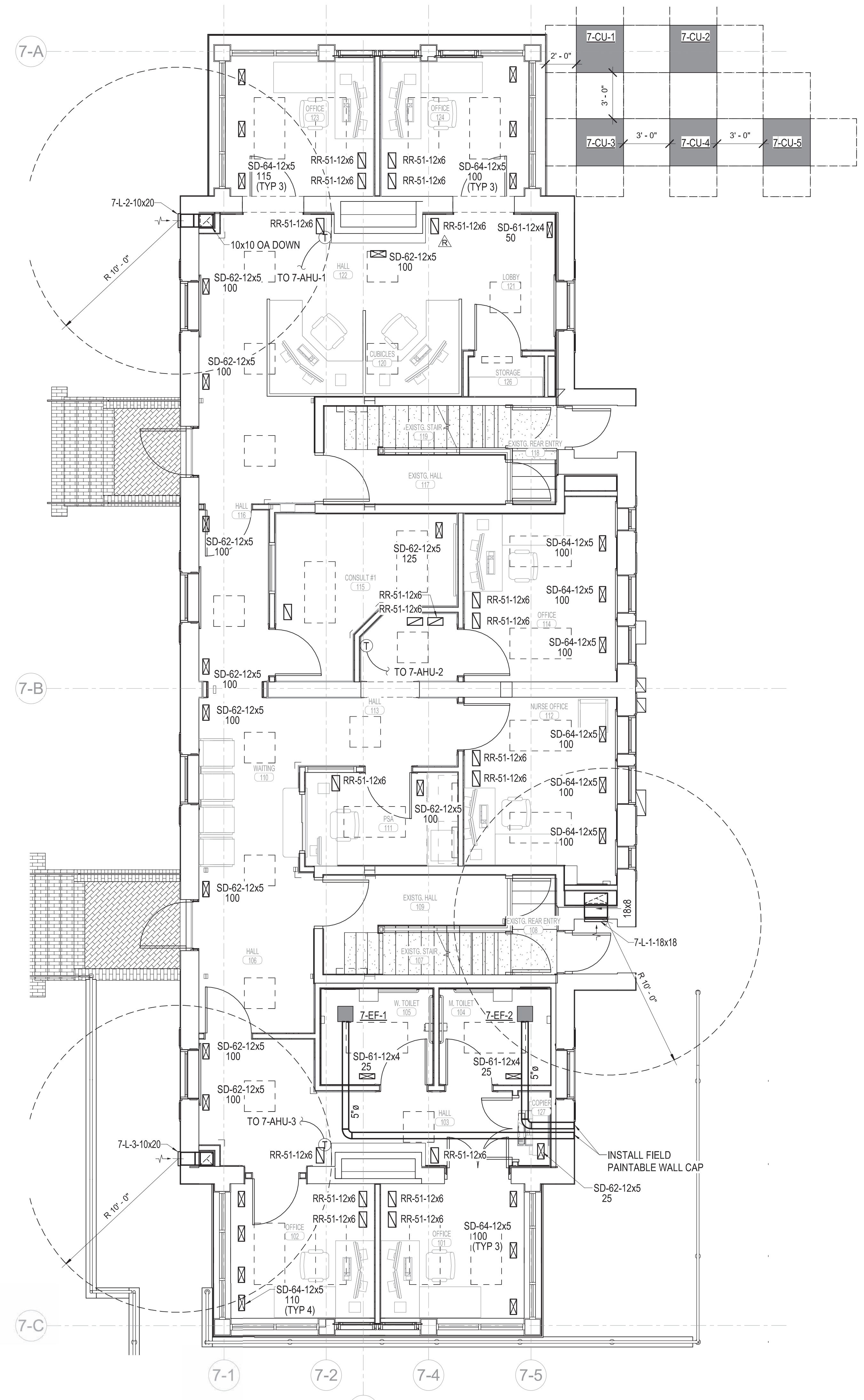
Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs

three eighths inch = one foot  
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 four inches = one foot  
 five inches = one foot  
 six inches = one foot  
 seven inches = one foot  
 eight inches = one foot  
 nine inches = one foot  
 ten inches = one foot  
 eleven inches = one foot  
 twelve inches = one foot  
 thirteen inches = one foot  
 fourteen inches = one foot  
 fifteen inches = one foot



1 HYDRONICS PLAN - FIRST FLOOR - BID ITEM 5  
 1/4" = 1'-0"



2 HVAC PLAN - FIRST FLOOR - BID ITEM 5  
 1/4" = 1'-0"

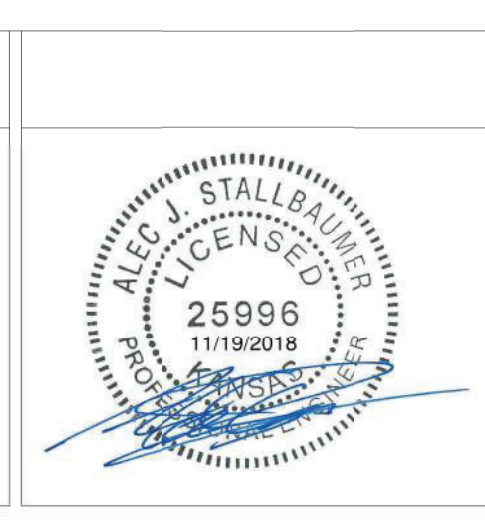
**MECHANICAL GENERAL NOTES**

- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
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- CEILING PLENUM IS USED FOR RETURN AIR. KEEP PLENUM FREE OF COMBUSTIBLES, PVC PIPING, AND ANY OTHER MATERIALS NOT ALLOWED BY THE INTERNATIONAL FIRE CODE.

Revisions:	Date

**CONSULTANTS:**

---



**ARCHITECT/ENGINEERS:**

**MHEG**  
ARCHITECTURE



Drawing Title  
**MECHANICAL PLANS - FIRST FLOOR - BID ITEM 5**

Approved: Project Director

Project Title  
**RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7**

Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date  
**11/19/2018**

Checked  
CDF

Drawn  
AJS

Project Number  
**589A7-18-301**

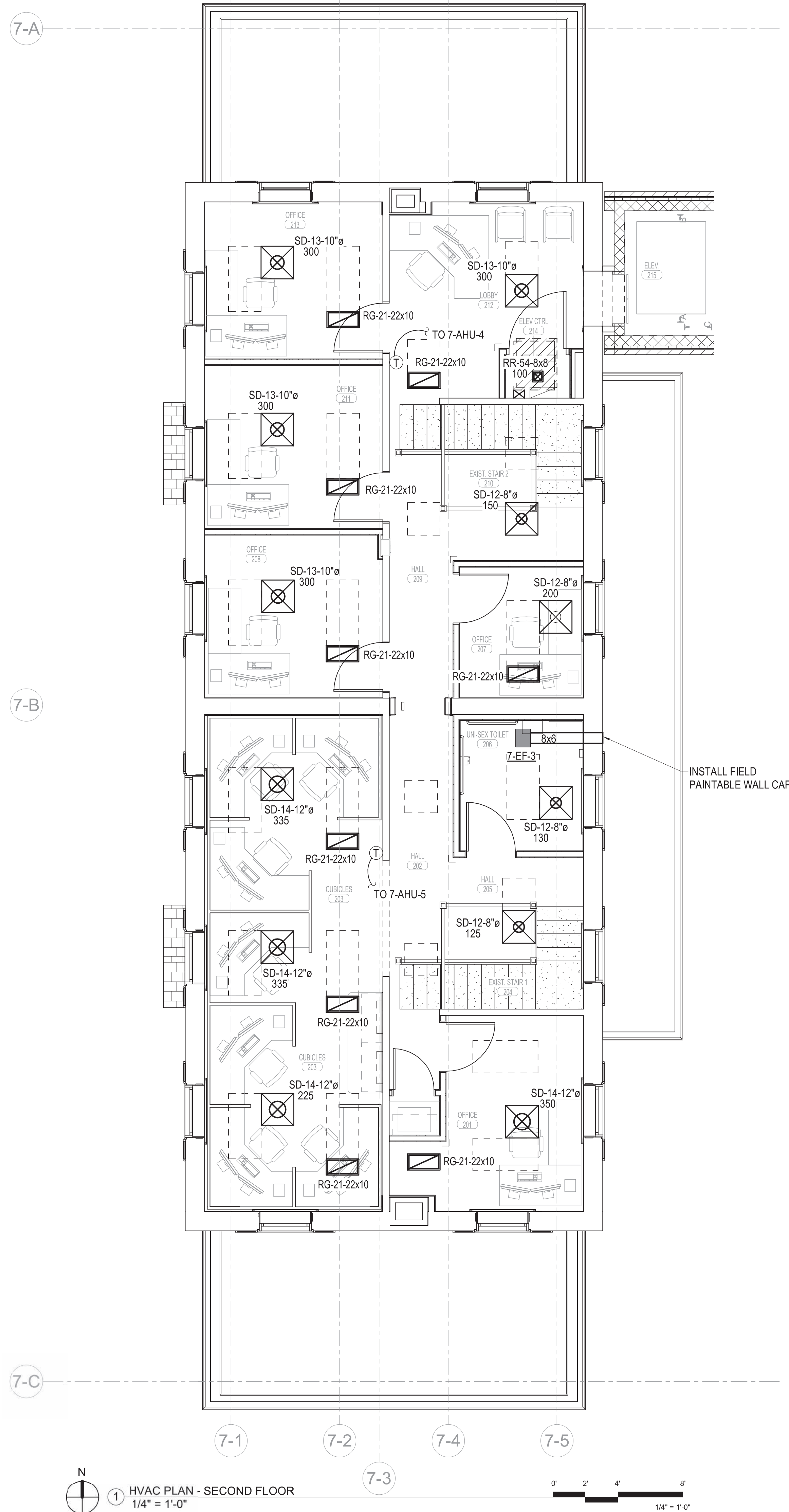
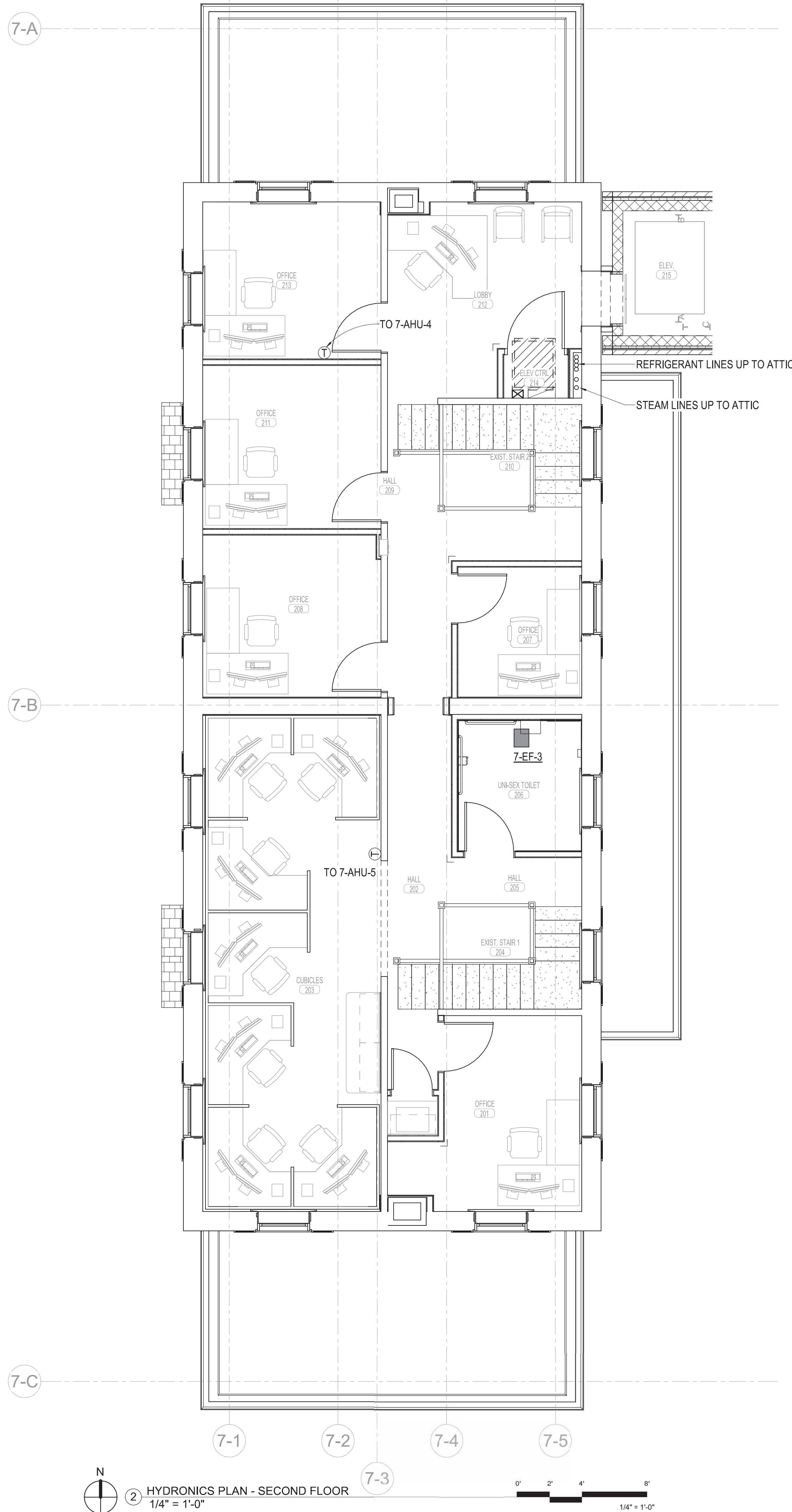
Building Number  
**7**

Drawing Number  
**MH102.5**

Dwg.



16 one eighth inch = one foot  
 12 one quarter inch = one foot  
 8 one half inch = one foot  
 6 three eighths inch = one foot  
 4 one eighth inch = one foot  
 3 three quarters inch = one foot  
 2 one inch = one foot  
 1 one and one half inches = one foot  
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- MECHANICAL GENERAL NOTES**
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Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**MHEG**  
ARCHITECTURE



Drawing Title  
**MECHANICAL PLANS - SECOND FLOOR**

Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date  
**11/19/2018**

Checked  
CDF

Drawn  
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Project Number  
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Building Number  
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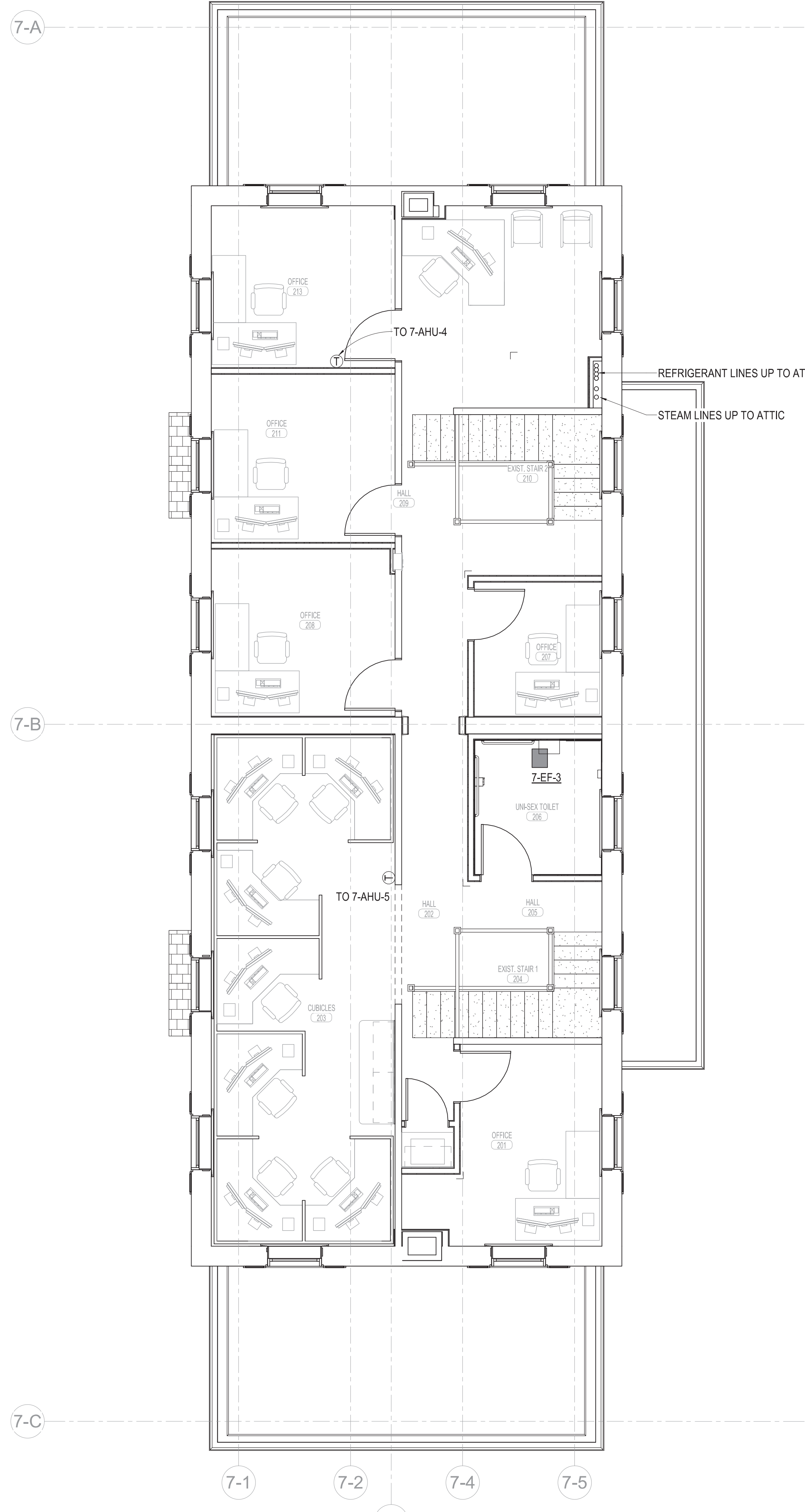
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Dwg.

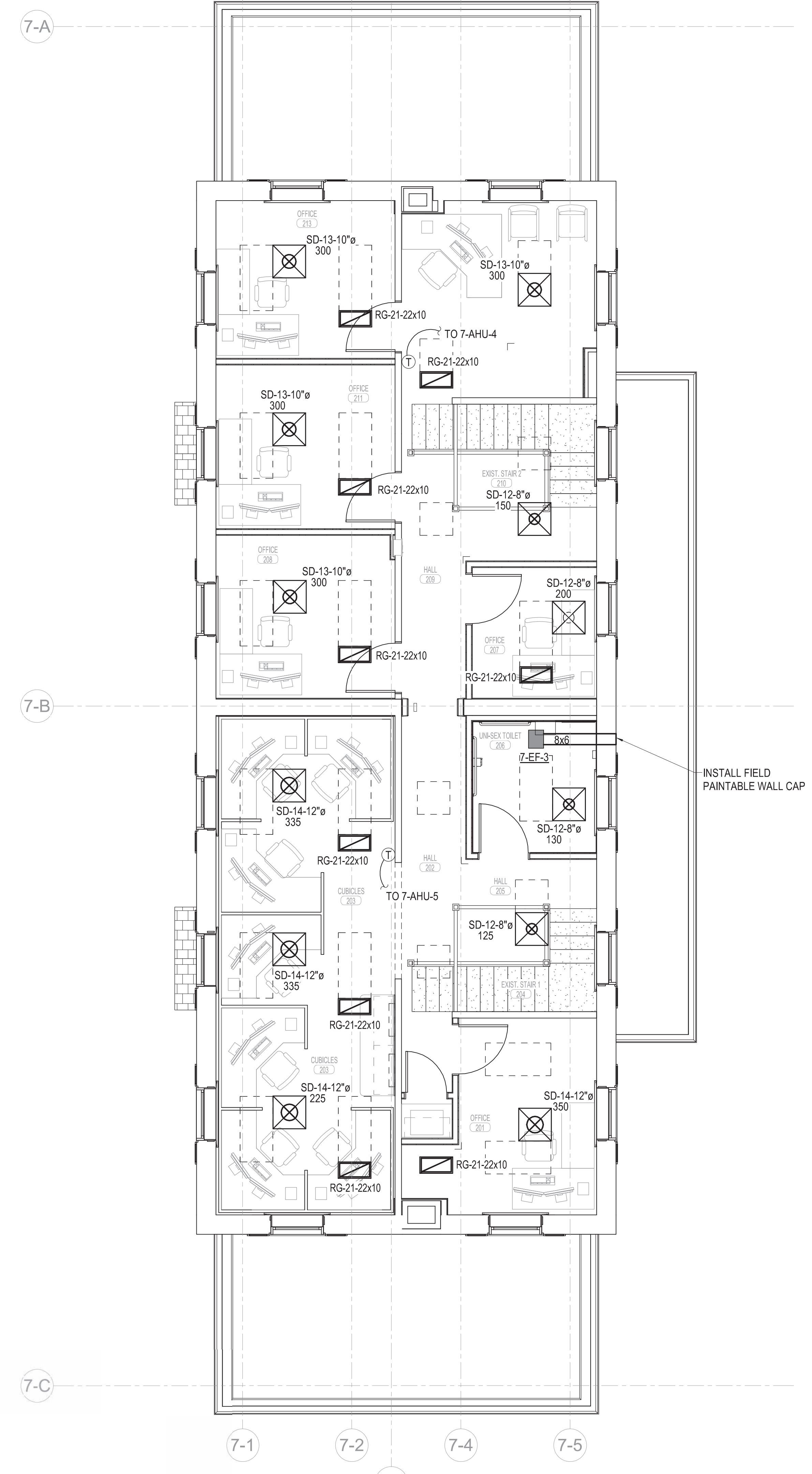
Office of Construction and Facilities Management  
Department of Veterans Affairs

**MECHANICAL GENERAL NOTES**

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**1** HYDRONICS PLAN - SECOND FLOOR - BID ITEM 5  
1/4" = 1'-0"



**2** HVAC PLAN - SECOND FLOOR - BID ITEM 5  
1/4" = 1'-0"

Revisions:	Date

CONSULTANTS:



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Drawing Title  
**MECHANICAL PLANS - SECOND FLOOR - BID ITEM 5**

Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7

Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date	Checked	Drawn
11/19/2018	CDP	AJS

Project Number  
589A7-18-301

Building Number  
7

Drawing Number  
**MH103.5**

Dwg.

Office of Construction and Facilities Management

Department of Veterans Affairs