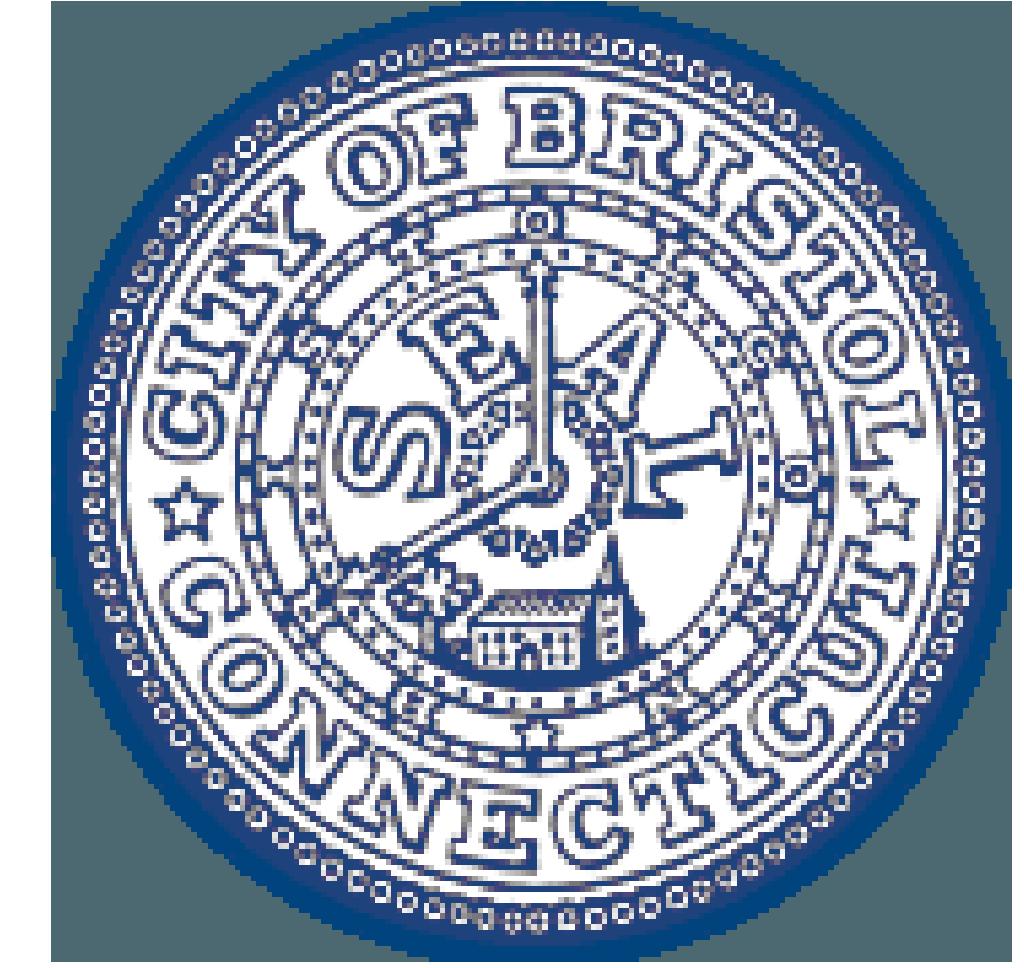


MECH IMPROVEMENTS AT SOUTH SIDE ELEMENTARY SCHOOL BRISTOL, CT



CONTRACT 2C20-064

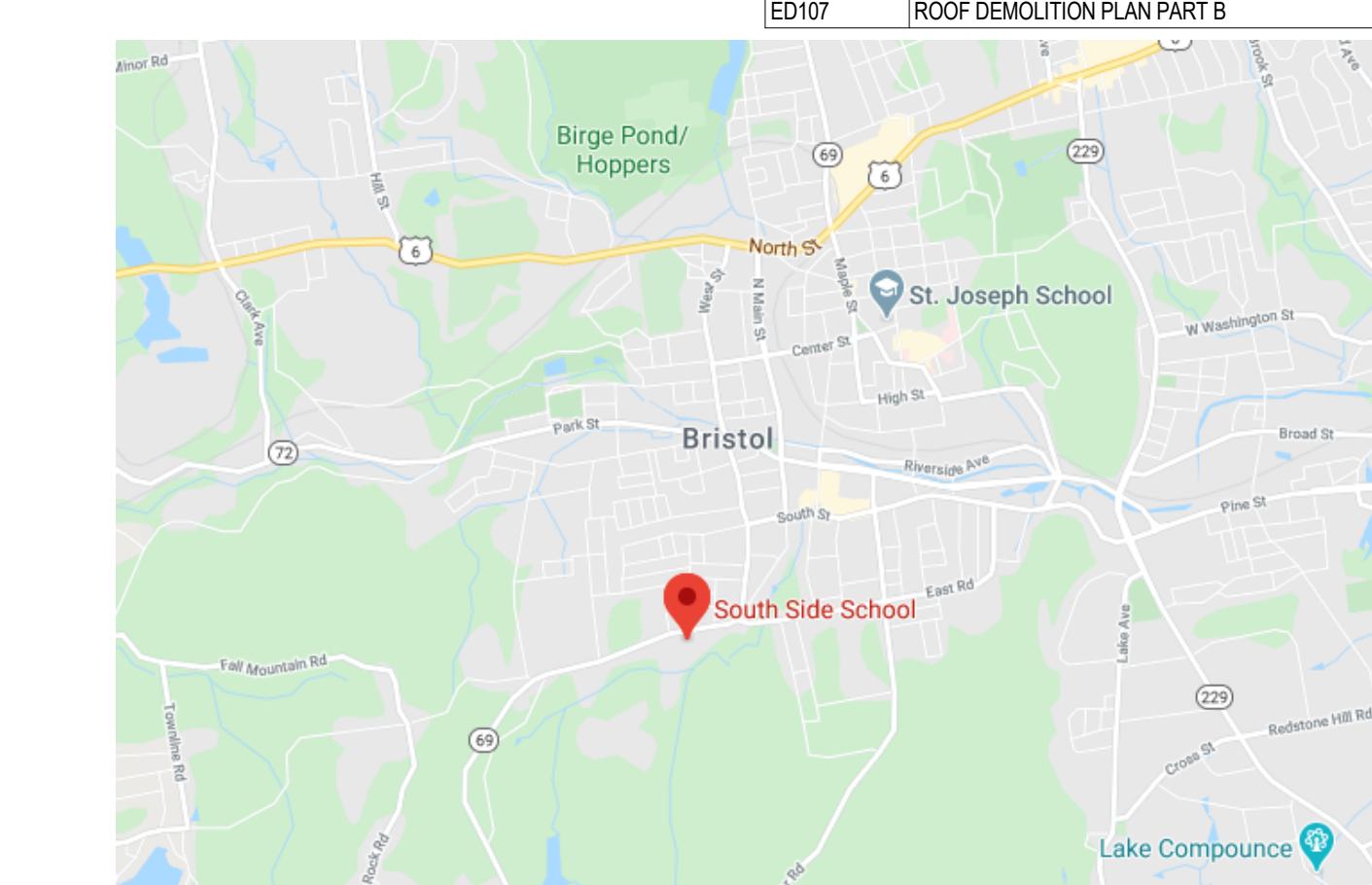
21 Tuttle Rd.
Bristol, CT 06010

April 15, 2020

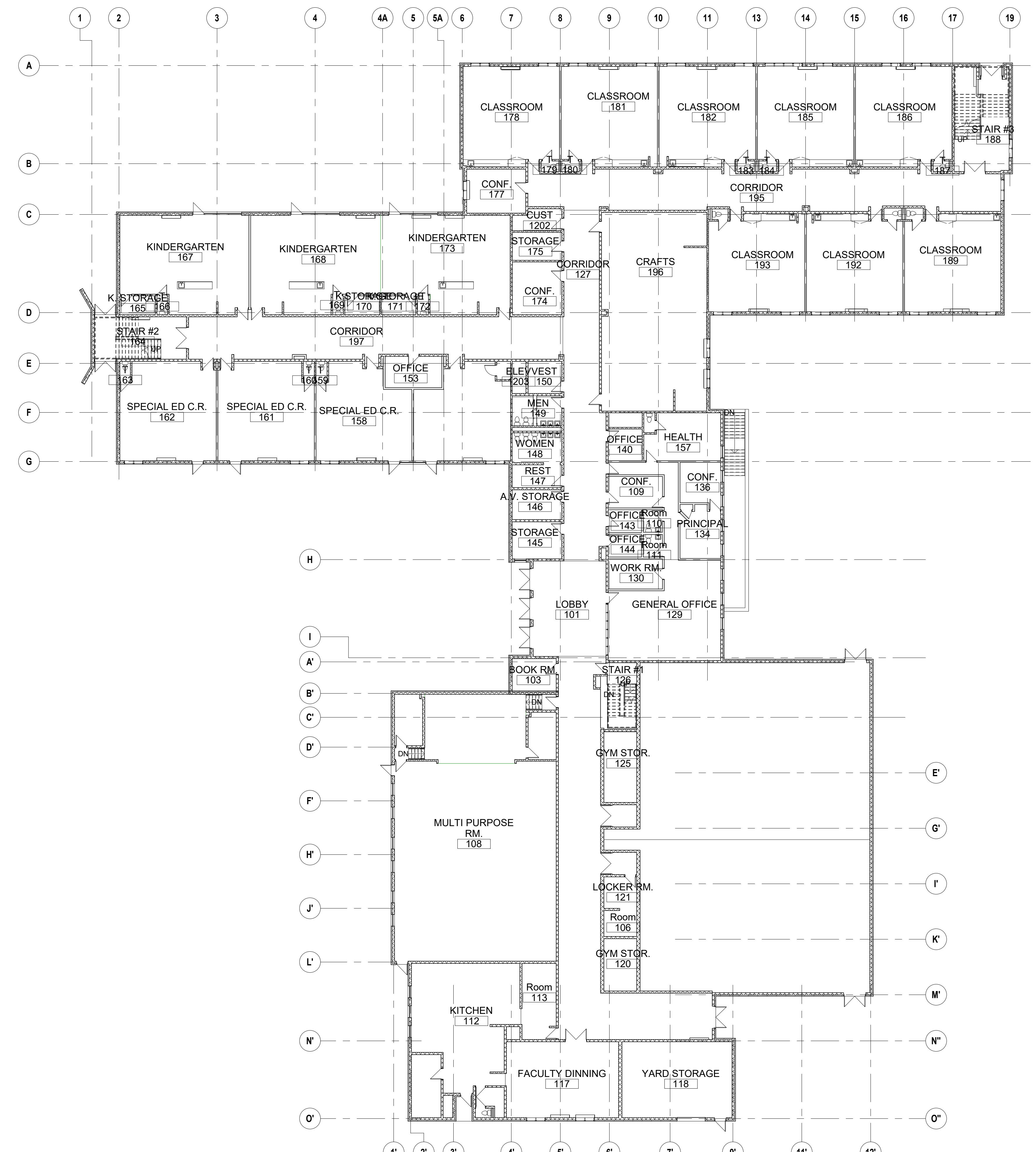
CITY OF BRISTOL, CT
Mayor Ellen Zoppo-Sassu



DRAWING LIST	
A101	OVERALL FIRST FLOOR PLAN
A101A	FIRST FLOOR PLAN PART A
A101B	FIRST FLOOR PLAN PART B
A102	OVERALL SECOND FLOOR PLAN
A102A	SECOND FLOOR PLAN PART A
A102B	SECOND FLOOR PLAN PART B
A103A	ROOF PLAN PART A
D101A	FIRST FLOOR DEMOLITION PLAN PART A
D101B	FIRST FLOOR DEMOLITION PLAN PART B
D102A	SECOND FLOOR DEMOLITION PLAN PART A
D105A	SECOND FLOOR RCP DEMOLITION PLAN PART A
D105B	SECOND FLOOR RCP DEMOLITION PLAN PART B
HAZMAT	
HM-1	BASEMENT & FIRST FLOOR ABATEMENT PLAN
HM-2	SECOND FLOOR ABATEMENT PLAN
MECHANICAL	
H101	LEGENDS, NOTES, AND ABBREVIATIONS
H101A	FIRST FLOOR DUCTWORK PLAN PART A
H101B	FIRST FLOOR DUCTWORK PLAN PART B
H102A	SECOND FLOOR DUCTWORK PLAN PART A
H102B	SECOND FLOOR DUCTWORK PLAN PART B
H103A	ROOF DUCTWORK PLAN PART A
H103B	ROOF DUCTWORK PART B
H200	BASMENT NEW WORK PIPING PLAN
H201A	FIRST FLOOR PIPING PLAN PART A
H201B	FIRST FLOOR PIPING PLAN PART B
H202A	SECOND FLOOR PIPING PART PLAN A
H202B	SECOND FLOOR PIPING PLAN PART B
H501	HVAC DETAILS
H502	HVAC DETAILS
H503	HVAC DETAILS
H601	SCHEDULES
DRAWING LIST	
H602	SCHEDULES
H701	CONTROLS
H702	CONTROLS
H703	CONTROLS
H704	ALTERNATE CONTROLS
H801	LEVEL 1 AIRFLOW DIAGRAMS
H802	LEVEL 2 AIRFLOW DIAGRAMS
H803	LEVEL 3 AIRFLOW DIAGRAMS
H804	LEVEL 4 AIRFLOW DIAGRAMS
H805	LEVEL 5 AIRFLOW DIAGRAMS
H101A	FIRST FLOOR DEMOLITION PLAN PART A
H101B	FIRST FLOOR DEMOLITION PLAN PART B
H102A	SECOND FLOOR DEMOLITION PLAN PART A
H102B	SECOND FLOOR DEMOLITION PLAN PART B
H103A	ROOF DEMOLITION PLAN PART A
H103B	ROOF DEMOLITION PLAN PART B
ELECTRICAL	
E001	ELECTRICAL TITLE SHEET
E101	LEVEL 1 LIGHTING PLAN PART A
E102	LEVEL 1 LIGHTING PLAN PART B
E103	LEVEL 2 LIGHTING PLAN PART A
E201	BASEMENT POWER PLAN
E202	LEVEL 1 POWER PLAN PART A
E203	LEVEL 2 POWER PLAN PART B
E204	LEVEL 3 POWER PLAN PART A
E205	LEVEL 4 POWER PLAN PART B
E206	ROOF POWER PLAN PART A
E207	ROOF POWER PLAN PART B
E501	ELECTRICAL DETAILS SHEET
E601	ELECTRICAL SCHEDULES SHEET
ED101	BASEMENT DEMOLITION PLAN
ED102	LEVEL 1 DEMOLITION PLAN PART A
ED103	LEVEL 1 DEMOLITION PLAN PART B
ED104	LEVEL 2 DEMOLITION PLAN PART A
ED105	LEVEL 2 DEMOLITION PLAN PART B
ED106	ROOF DEMOLITION PLAN PART A
ED107	ROOF DEMOLITION PLAN PART B



ISSUED FOR:
ADDENDUM #1



OVERALL First Floor PLAN

10 of 10

The logo for Weston & Sampson. The word "Weston" is in blue, "Sampson" is in green, and the ampersand is a blue circle. A small "SM" is in the top right corner of the "Sampson" text.

Consultants

QA+M architecture

QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
(860) 677-4594

Seal:

Revisions:

Issued For:

SCALE:

Date:	APRIL 2, 2020
Drawn By:	JCB
Reviewed By:	AC
Approved By:	-

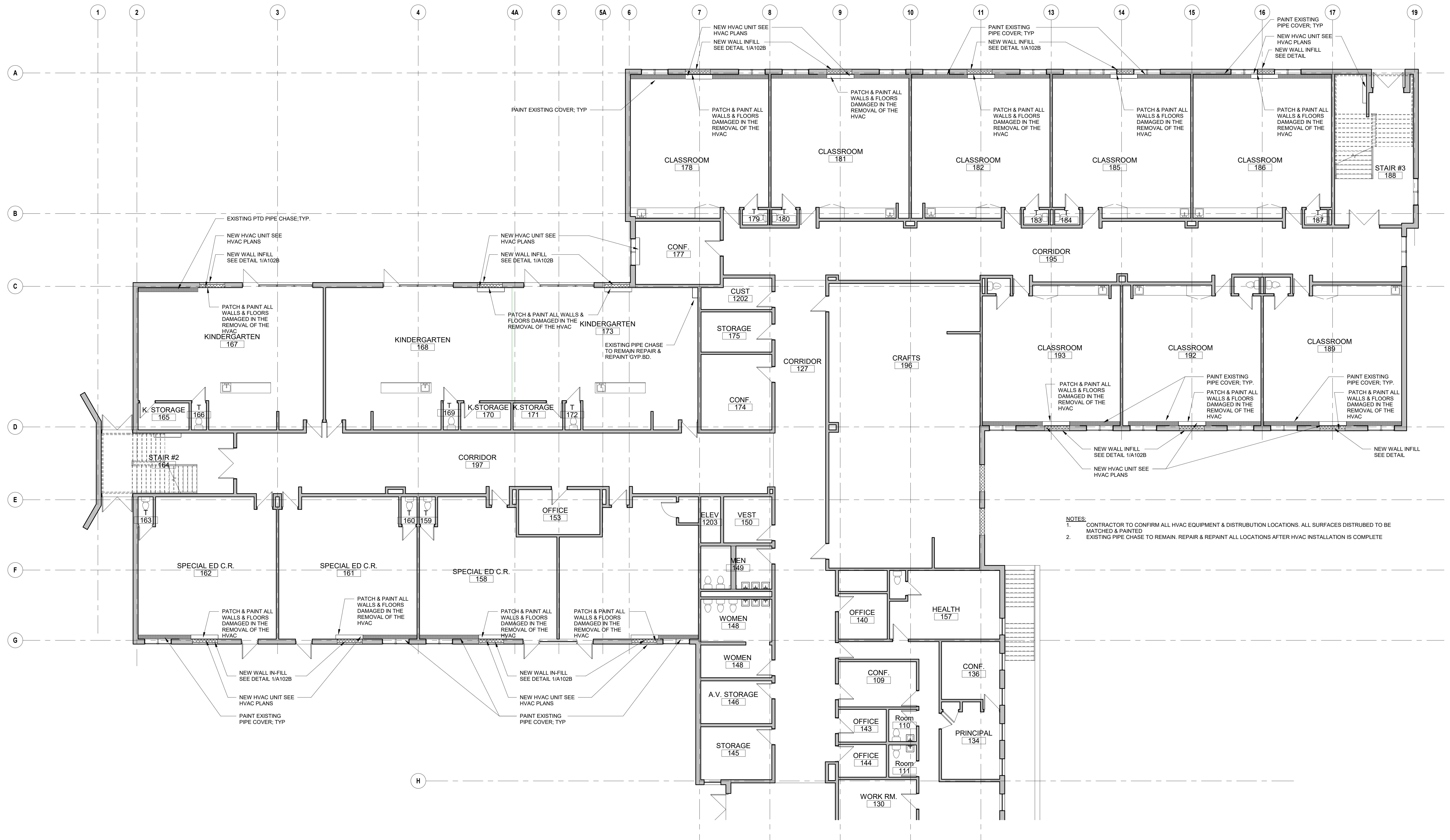
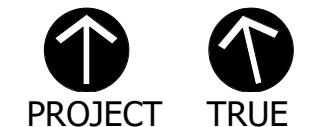
Drawing Title

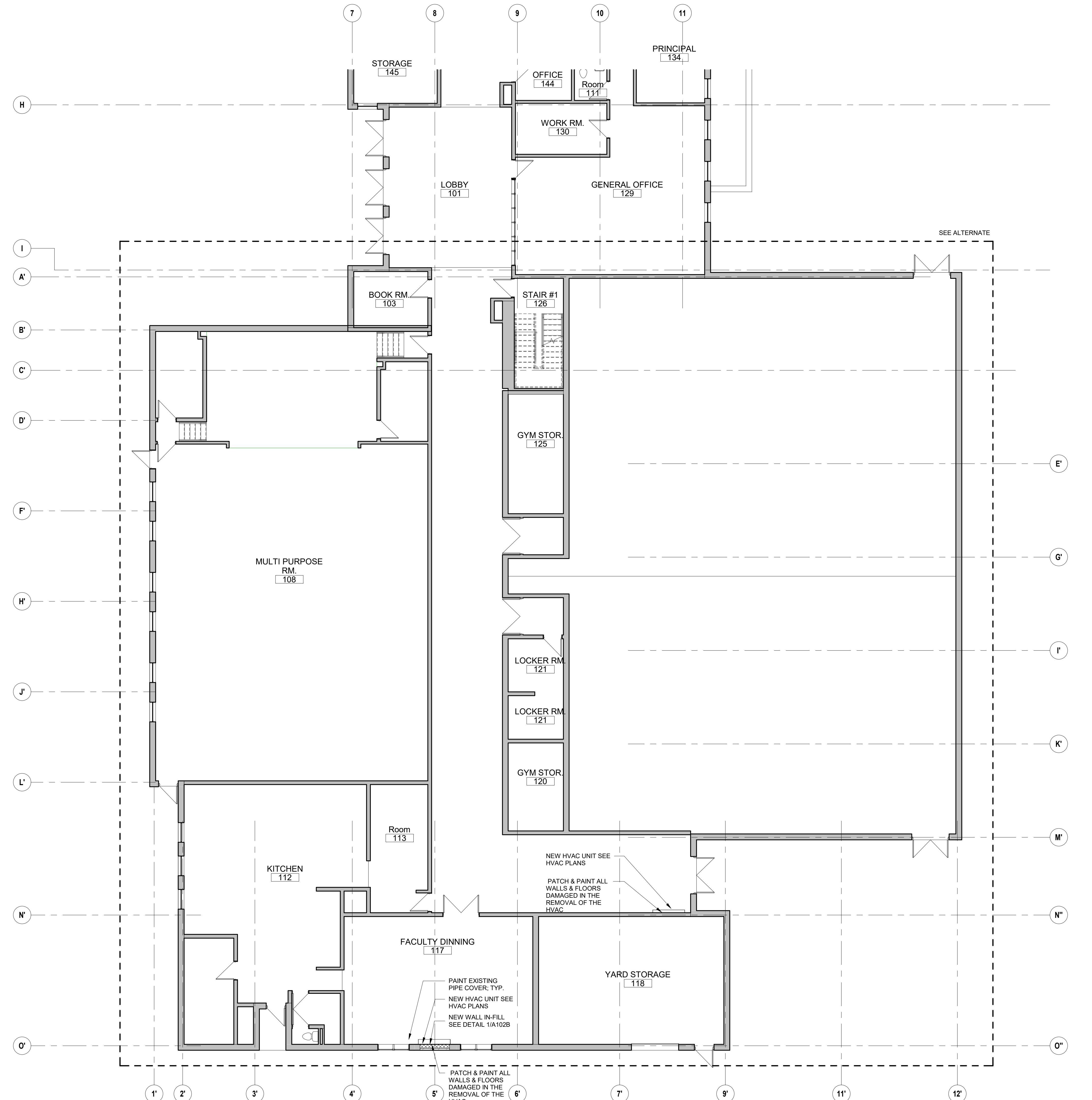
OVERALL FIRST FLOOR PLAN

Sheet Number

A101

Rev	Date	Description


First Floor PLAN PART A
 A101A 1/8" = 1'-0"



NOTES:

1. CONTRACTOR TO CONFIRM ALL HVAC EQUIPMENT & DISTRIBUTION LOCATIONS. ALL SURFACES DISTRIBUTED TO BE MATCHED & PAINTED
2. EXISTING PIPE CHASE TO REMAIN. REPAIR & REPAINT ALL LOCATIONS AFTER HVAC INSTALLATION IS COMPLETE

First Floor PLAN PART B

1

The logo for Weston & Sampson Engineers, Inc. It features the word "Weston" in blue, the word "&" in a large, light blue circle, and the word "Sampson" in green. A small "SM" is in the top right corner of the "Sampson" text.

Consultants:

The logo for QA+M architecture. It features the letters 'QA' in a large, bold, blue sans-serif font. A plus sign is positioned between 'QA' and 'M'. The letter 'M' is also in a large, bold, blue sans-serif font. Below the letters, the word 'architecture' is written in a smaller, orange, sans-serif font.

Seal

Review

Issue

The logo consists of two circular icons. The left icon contains a white upward-pointing arrow, and the right icon contains a white downward-pointing arrow. Below the left icon is the word 'PROJECT' and below the right icon is the word 'TRUE'.

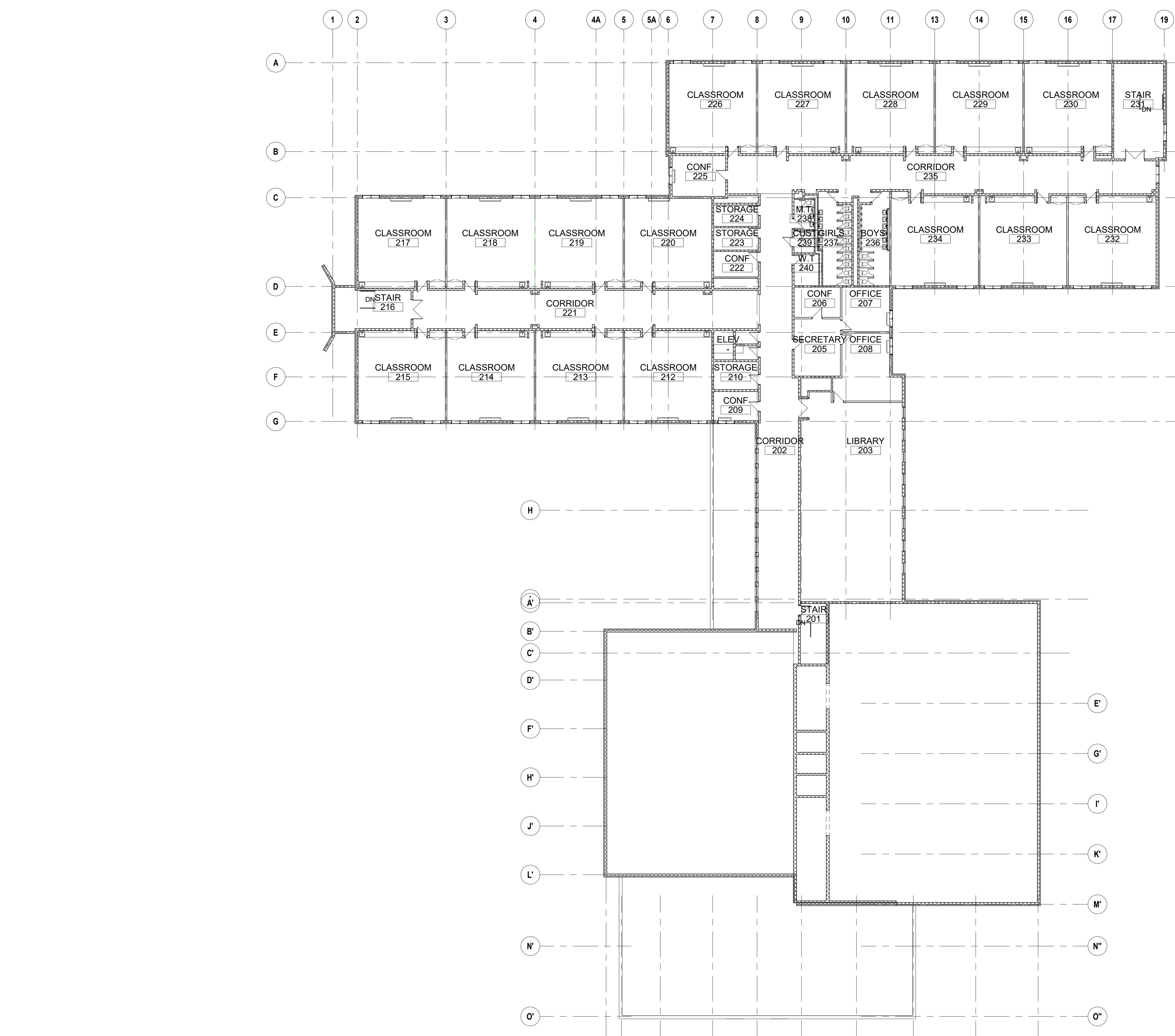
ADDENDUM 2

Drawing Title:

FIRST FLOOR PLAN PART B

Sheet Number:

A101B



Project:

Weston & Sampson

Weston & Sampson Engineers, Inc.
100 Foxborough Road, Suite 250
Foxborough, MA 02035
(508) 698-3034 (800) SAMPSON
www.westonandsampson.com

Consultants:

QA+M
architecture

Quisenberry Arcan Malik
199 Scott Swamp Road
Farmington, CT 06032
(860) 677-4594
qamarch.com

Seal:

Revisions:

Rev	Date	Description

Issued For: FOR BID

PROJECT TRUE

SCALE: AS NOTED

Date: APRIL 2, 2020

Drawn By: JCB

Reviewed By: AC

Approved By: -

W&S Project No: Do Not Use

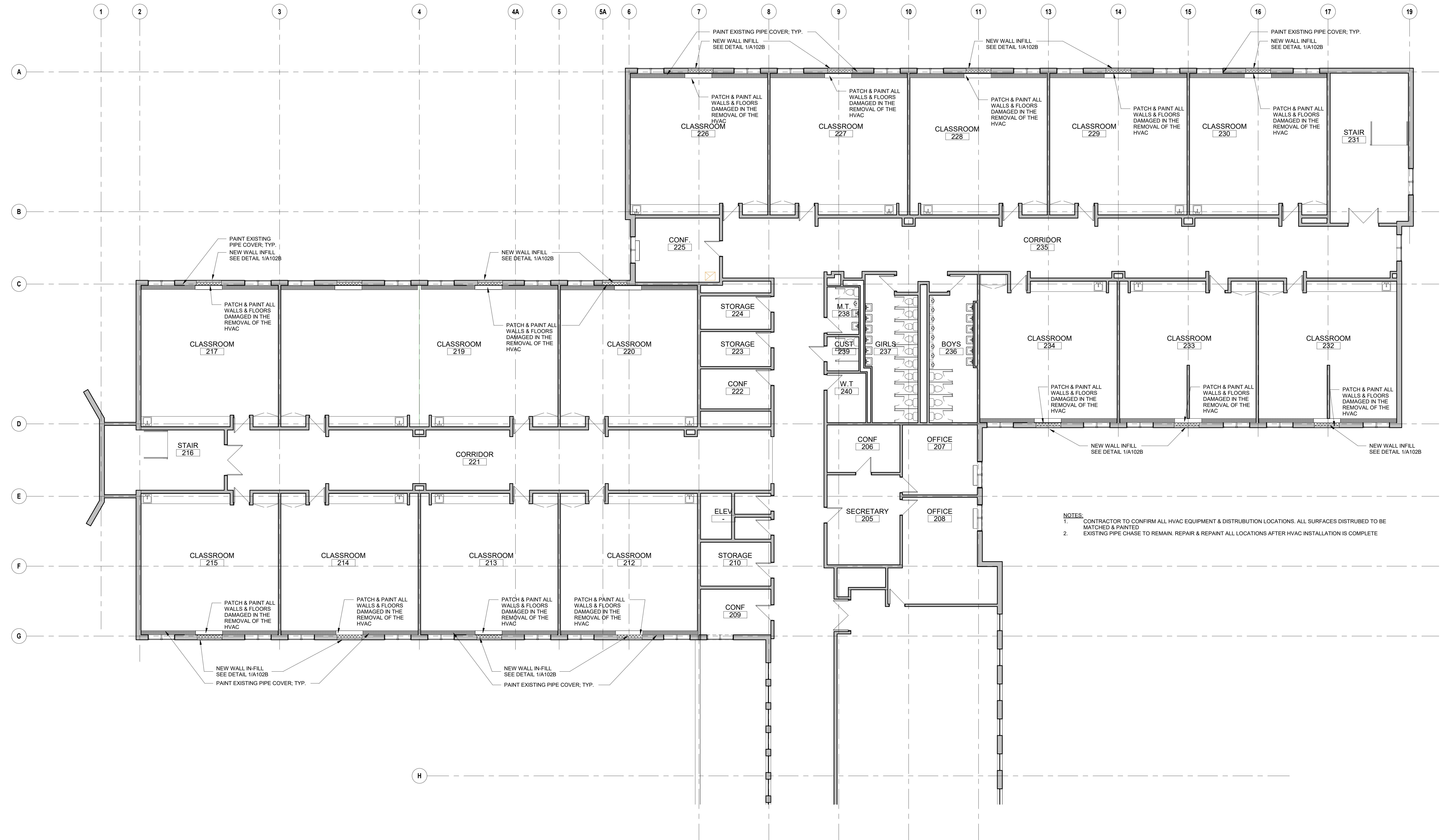
Drawing Title:

OVERALL
SECOND FLOOR
PLAN

Sheet Number:

A102

WESTON & SAMPSON COPYRIGHT 2018



Second Floor PLAN PART A

A102A 1/8" = 1'-0"

10 of 10

Consulta

QA+M
architecture

Seal

Review

Issued For: EOP E

The logo consists of two circular icons with white arrows pointing upwards and to the right. Below the left icon is the word 'PROJECT' and below the right icon is the word 'TRUE'.

ADDENDUM 2

SCALE: AS NOTED

Date: APRIL 21, 2020
Drawn By: JCB
Reviewed By: AC
Approved By: -

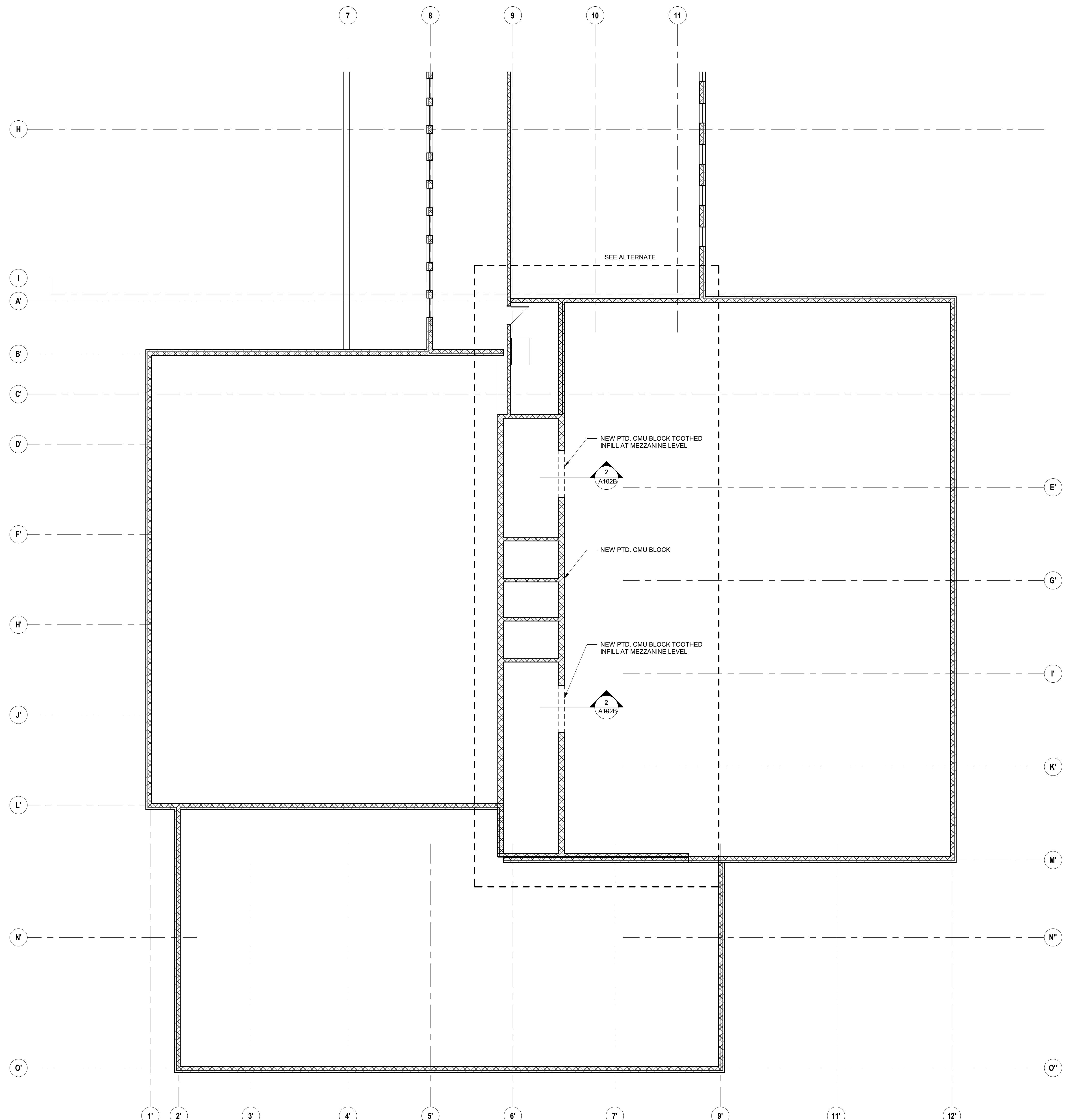
W&S Project No: Do Not Use

Drawing

SECOND FLOOR PLAN PART A

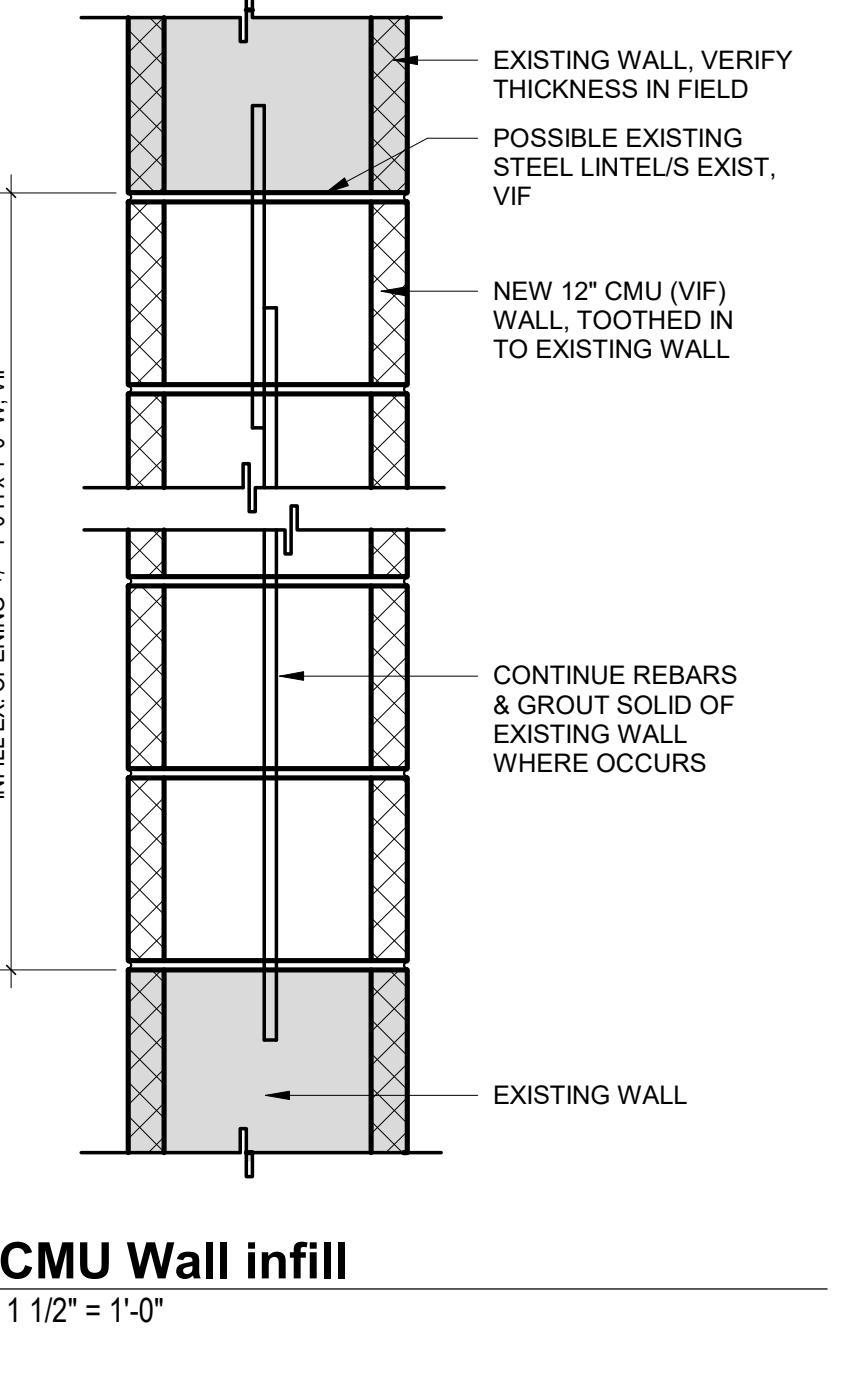
Sheet N

A102A

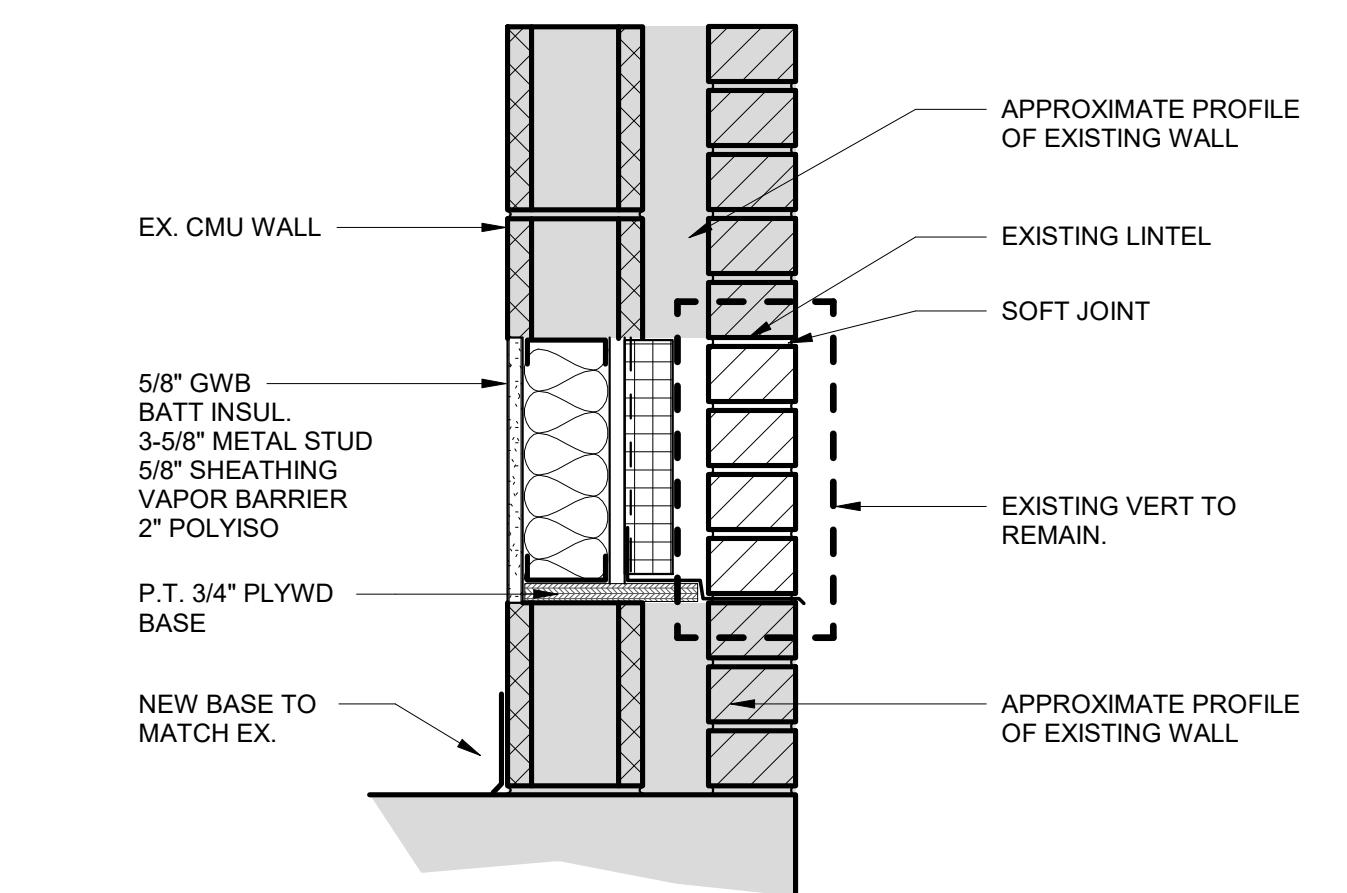


3 Second Floor PLAN PART B
A102B 1/8" = 1'-0"

NOTES:
 1. CONTRACTOR TO CONFIRM ALL HVAC EQUIPMENT & DISTRIBUTION LOCATIONS. ALL SURFACES DISTRIBUTED TO BE
 MATCHED & PAINTED
 2. EXISTING PIPE CHASE TO REMAIN. REPAIR & REPAINT ALL LOCATIONS AFTER HVAC INSTALLATION IS COMPLETE



2 CMU Wall infill
A102B 1 1/2" = 1'-0"



1 Exterior Wall infill
A102B 1 1/2" = 1'-0"

Project:
 Weston & Sampson

Weston & Sampson Engineers, Inc.
100 Foxborough, MA 02035
(508) 898-3034 (800) SAMPSON
www.westonsampson.com

Consultants:
 QA+M architecture
Quisenberry Arcan Malik
198 Scott Swamp Road
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Seal:
 [Blank]

Revisions:
 Rev Date Description
 [Blank]

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PROJECT TRUE

ADDENDUM 2
SCALE: AS NOTED

Date: APRIL 21, 2020
Drawn By: JCB
Reviewed By: AC
Approved By: -
W&S Project No: Do Not Use

Drawing Title:
 SECOND FLOOR

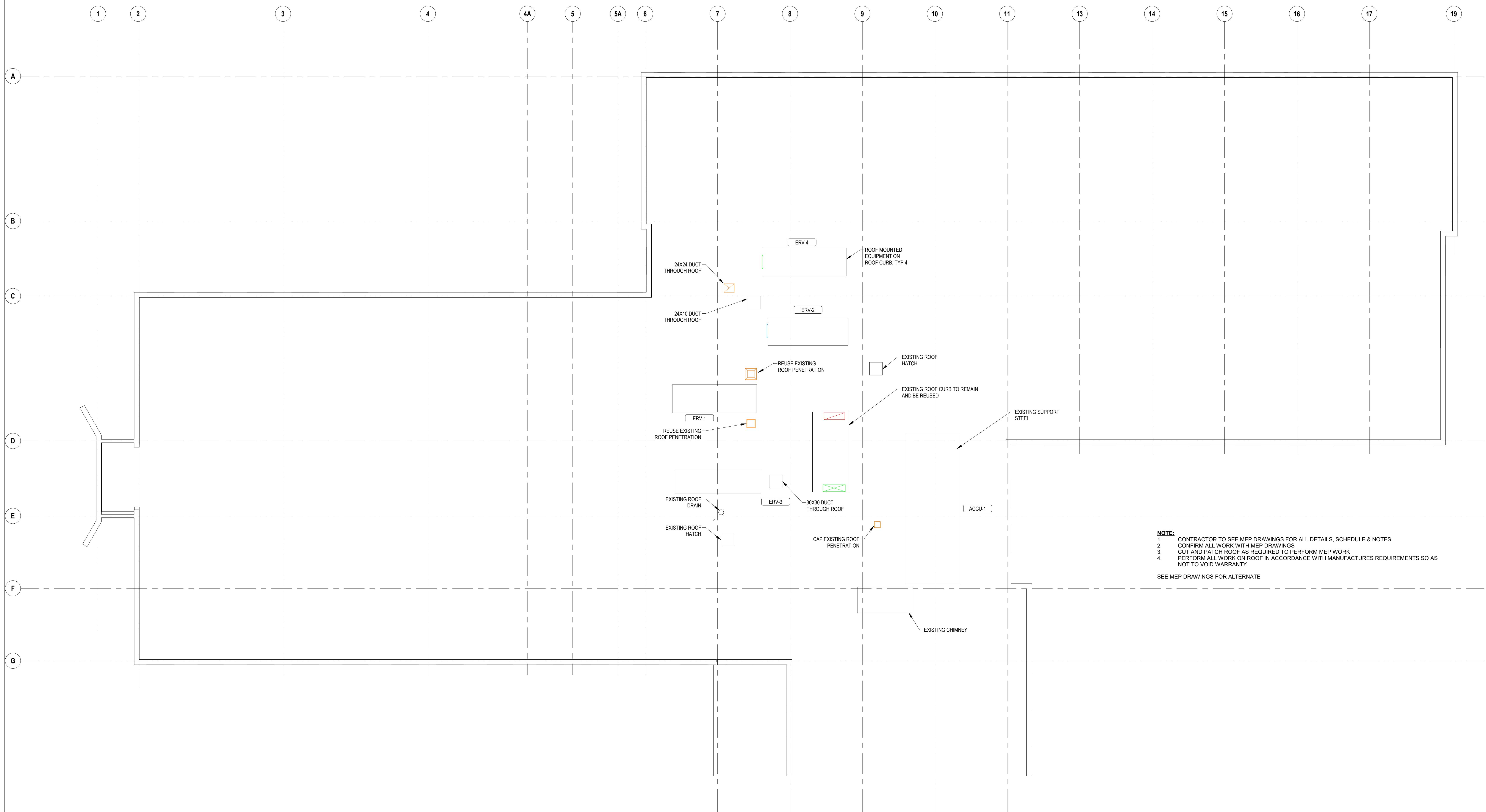
PLAN PART B

Sheet Number:

A102B

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Rev	Date	Description



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Seal:

Revisions:

Rev	Date	Description

Issued For:

FOR BID

PROJECT TRUE

ADDENDUM 2

SCALE: AS NOTED

Date: APRIL 21, 2020

Drawn By: JCB

Reviewed By: AC

Approved By: -

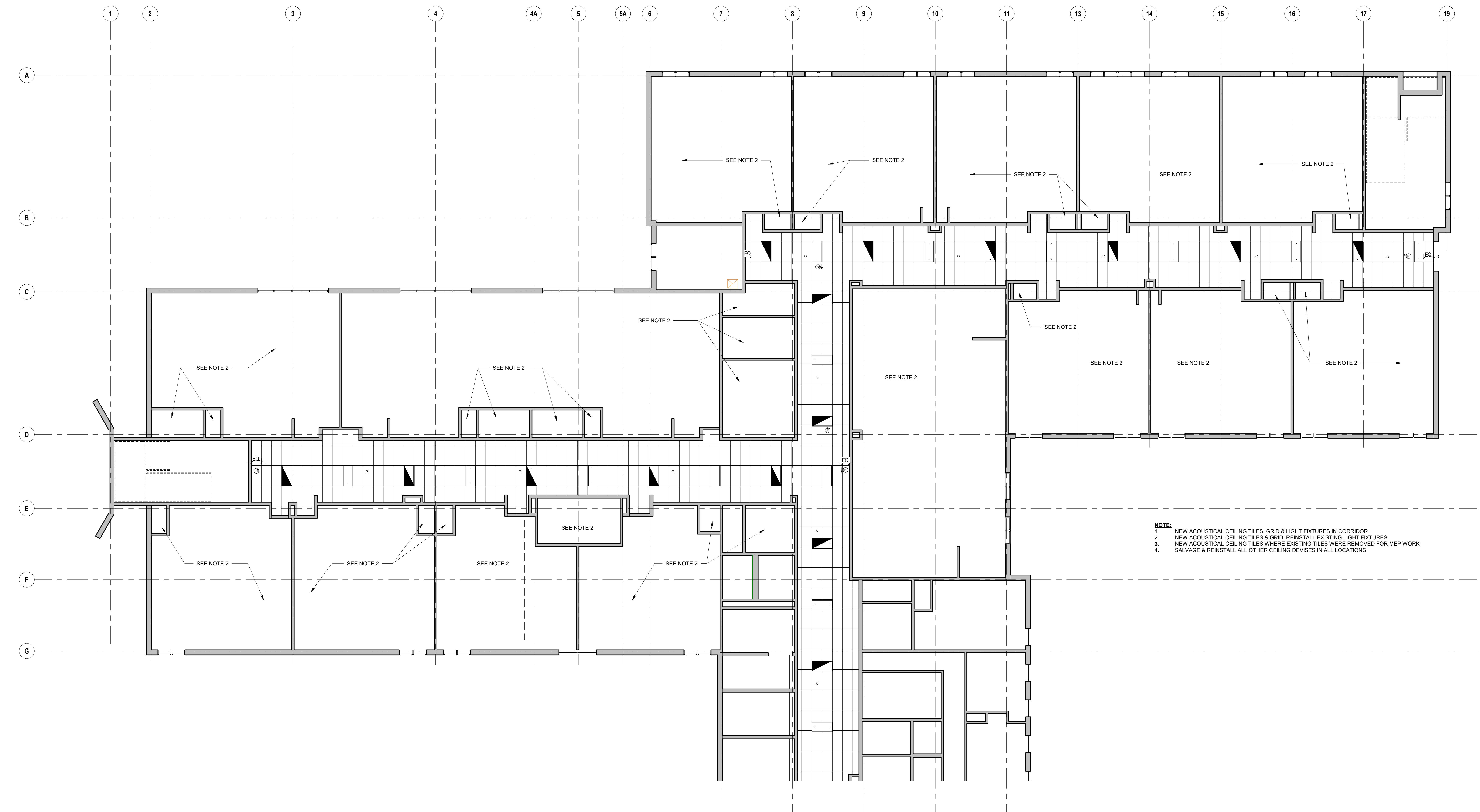
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Drawing Title:

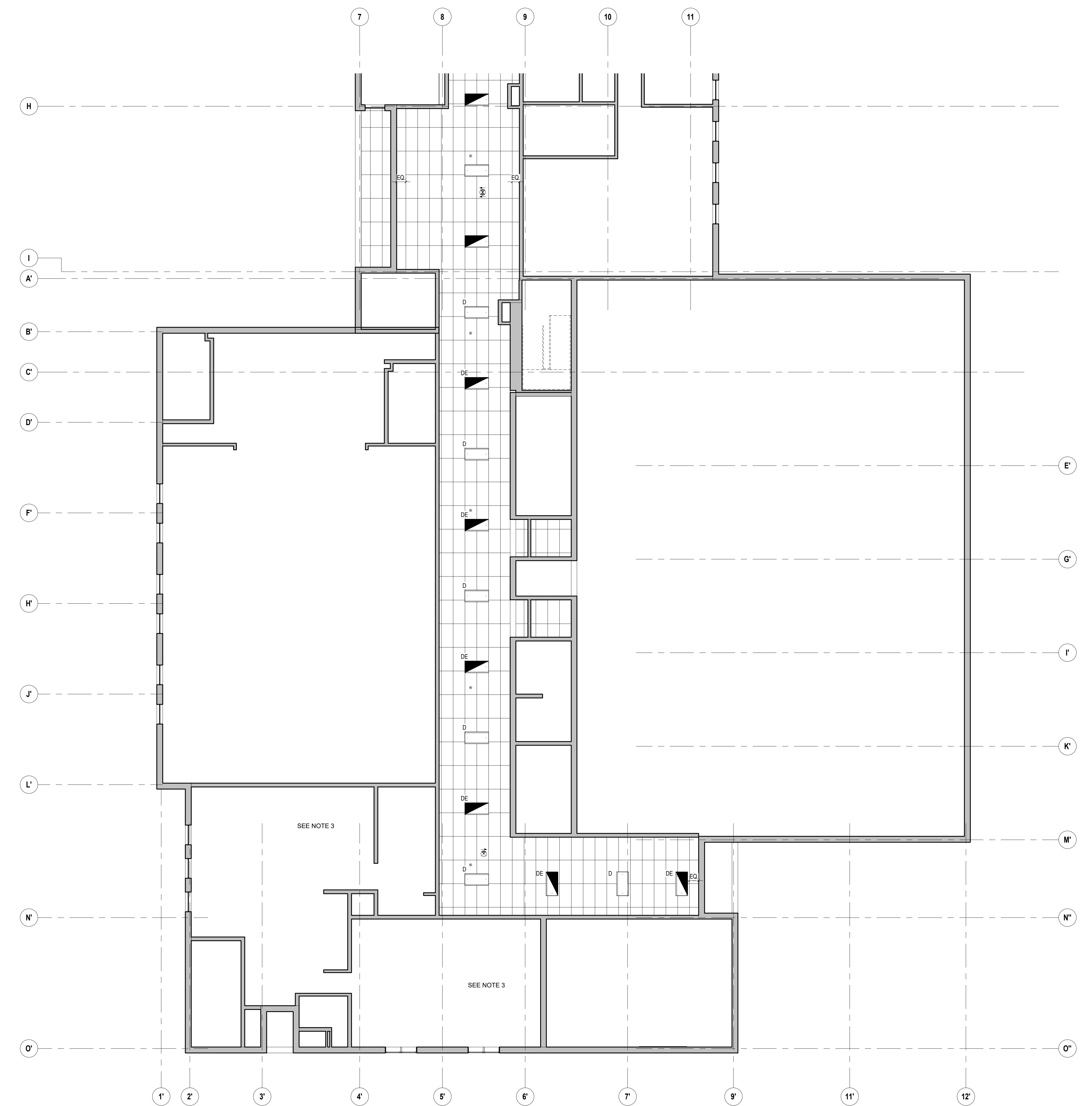
FIRST FLOOR RCP
 PLAN PART A

Sheet Number:

A104A



1 First Floor RCP PLAN PART A
 A104A 1/8" = 1'-0"



1 First Floor RCP PLAN PART B
A104B 1/8" = 1'-0"

NOTE:
 1. NEW ACOUSTICAL CEILING TILES, GRID & LIGHT FIXTURES IN CORRIDOR.
 2. NEW ACOUSTICAL CEILING TILES & GRID: REINSTALL EXISTING LIGHT FIXTURES
 3. NEW ACOUSTICAL CEILING TILES WHERE EXISTING TILES WERE REMOVED FOR MEP WORK
 4. SALVAGE & REINSTALL ALL OTHER CEILING DEVICES IN ALL LOCATIONS

Project:
[Redacted]

Weston & Sampson
Weston & Sampson Engineers, Inc.
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qamarch.com

Seal:
[Redacted]

Revisions:

Rev	Date	Description

Issued For: FOR BID

PROJECT TRUE

ADDENDUM 2
SCALE: AS NOTED

Date: APRIL 21, 2020
Drawn By: JCB
Reviewed By: AC
Approved By: -
W&S Project No: Do Not Use

Drawing Title:

FIRST FLOOR RCP
PLAN PART B

Sheet Number:

A104B

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Consultants:

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Seal:

Revisions:

Rev	Date	Description

Issued For:

FOR BID

PROJECT TRUE

ADDENDUM 2

SCALE: AS NOTED

Date: APRIL 21, 2020

Drawn By: JCB

Reviewed By: AC

Approved By: -

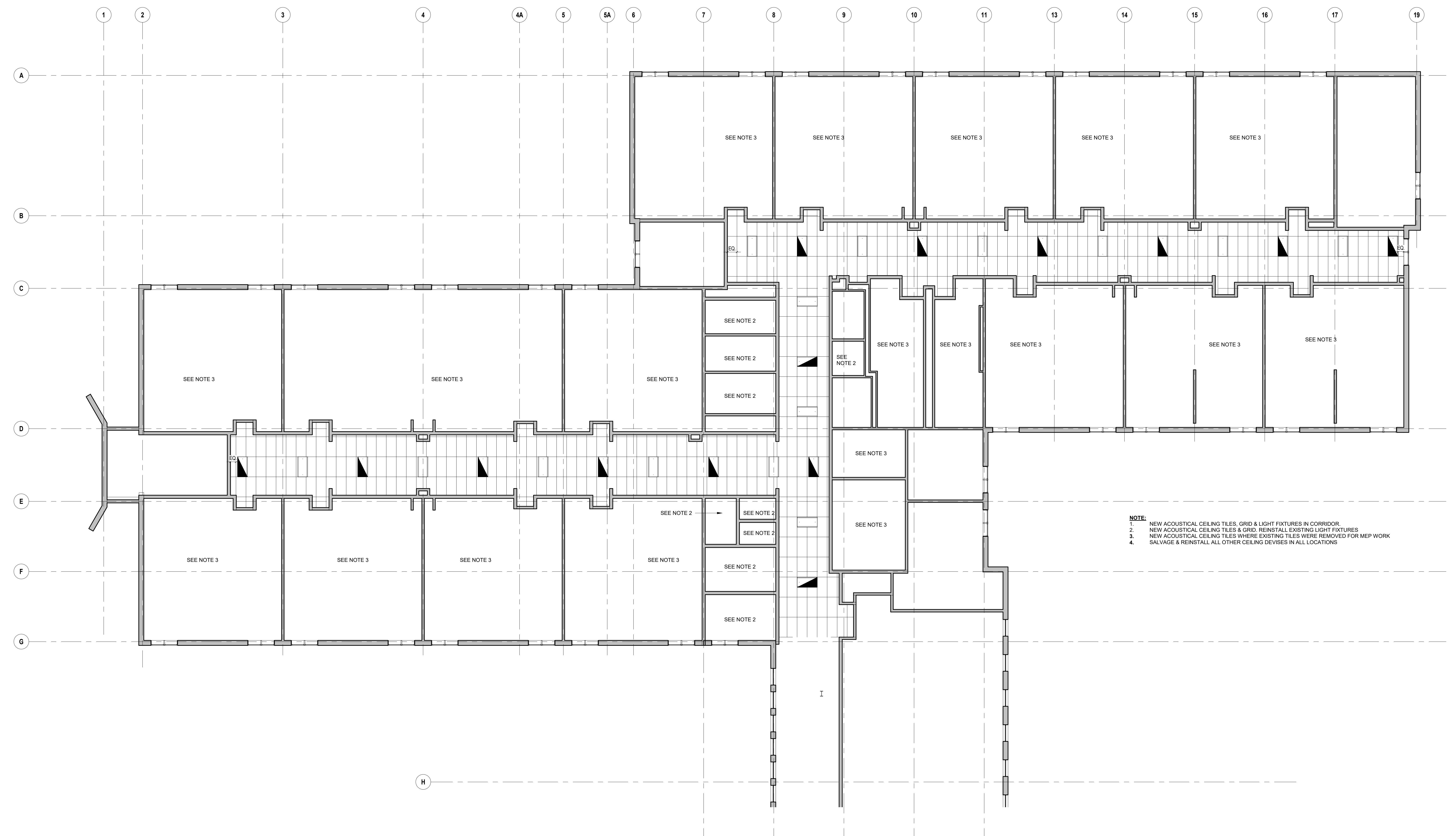
W&S Project No: Do Not Use

Drawing Title:

SECOND FLOOR
 RCP PLAN PART A

Sheet Number:

A105A



Second Floor RCP PLAN PART A

A105A

1/8" = 1'-0"

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Weston & Sampson Engineers, Inc.
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Consultants:

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qamarch.com

Seal:

Revisions:

Rev	Date	Description

Issued For: FOR BID

PROJECT TRUE

ADDENDUM 2
SCALE: AS NOTED

Date: APRIL 21, 2020
Drawn By: JCB
Reviewed By: AC
Approved By: -
W&S Project No: Do Not Use

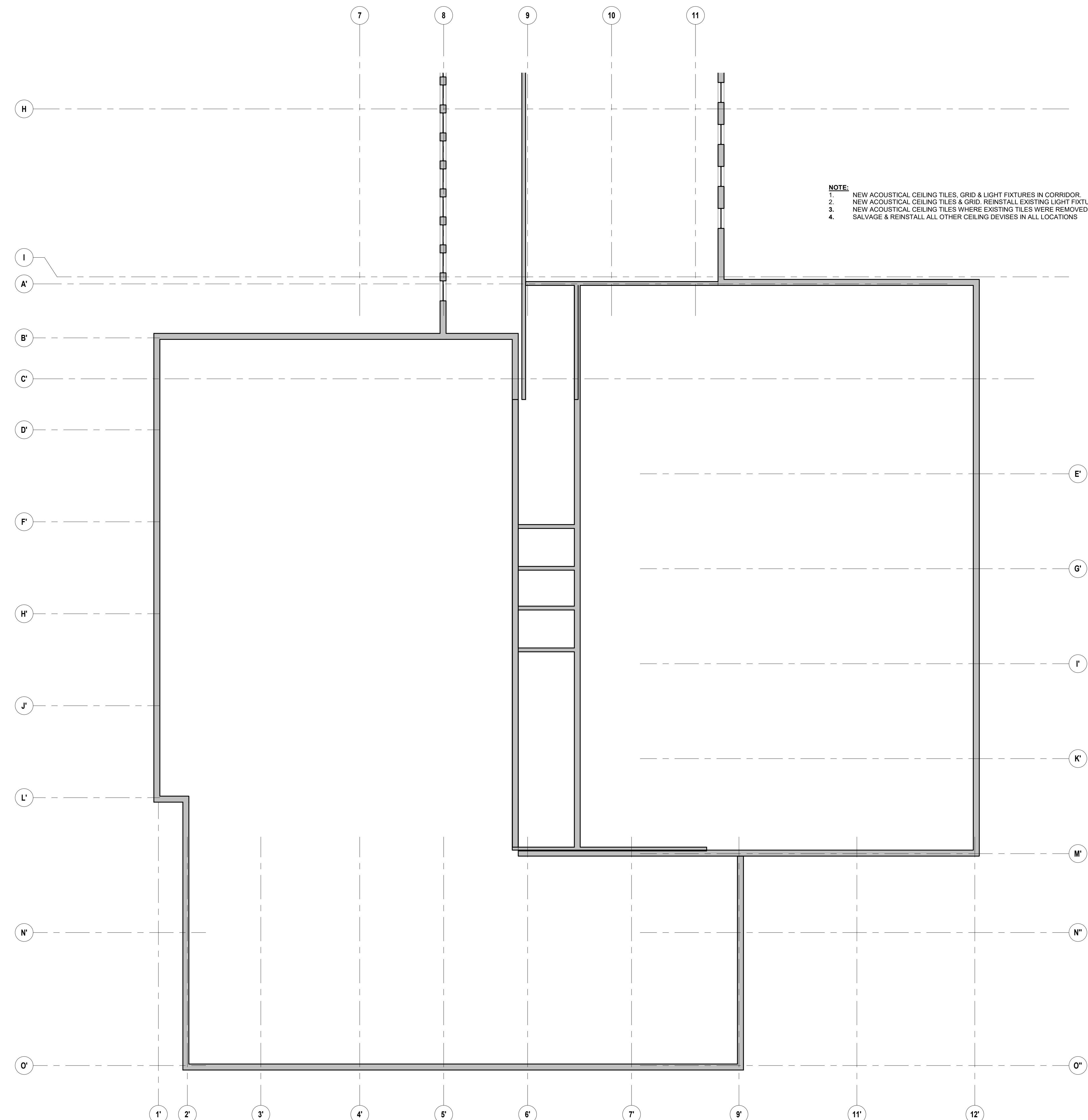
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SECOND FLOOR
RCP PLAN PART B

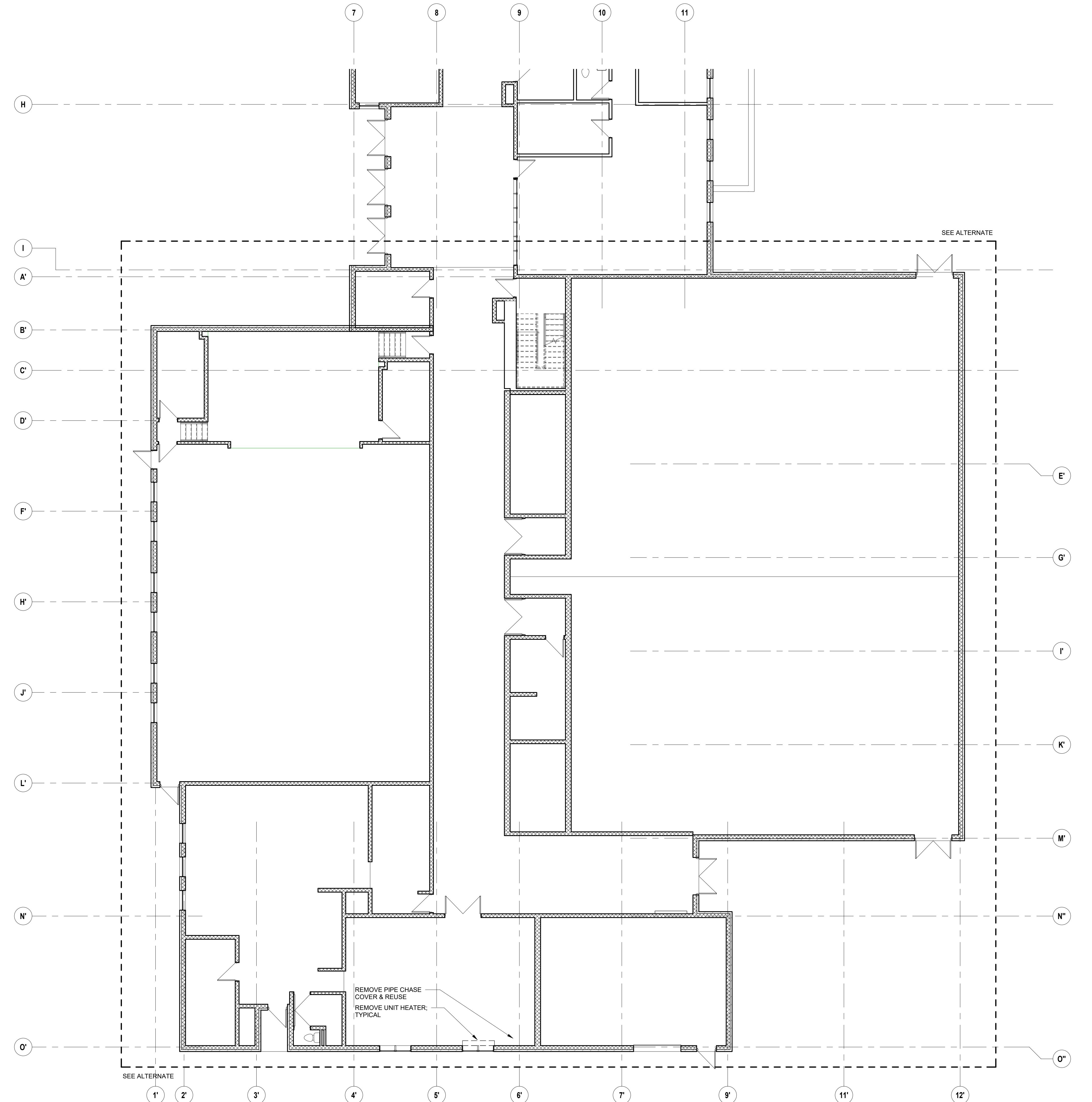
Sheet Number:

A105B

WESTON & SAMPSON COPYRIGHT 2018



1 Second Floor RCP PLAN PART B
A105B 1/8" = 1'-0"



First Floor DEMOLITION PLAN PART B

NOTES:

1. CONTRACTOR TO CONFIRM ALL HVAC EQUIPMENT & DISTRIBUTION LOCATIONS. ALL FLOORING & WALLS DISTURBED TO BE REPAIRED & PAINTED
2. EXISTING PIPE CHASE TO REMAIN. REPAIR & REPAINT ALL LOCATIONS AFTER HVAC INSTALLATION IS COMPLETE

FIRST FLOOR DEMOLITION PLAN PART B

Sheet Number:

D101B

Sheet Number:

D101B

— 124 —

D101B

DRONE

WESTON & SAMPSON COPYRIGHT 2018

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Project:

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 Weston & Sampson Engineers, Inc.
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 Foxborough, MA 02035
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Consultants:

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Seal:

Revisions:

Rev	Date	Description

Issued For:

FOR BID
 

ADDENDUM 2

SCALE: AS NOTED

Date: APRIL 21, 2020
 Drawn By: JCB
 Reviewed By: AC
 Approved By: -
 W&S Project No: Do Not Use

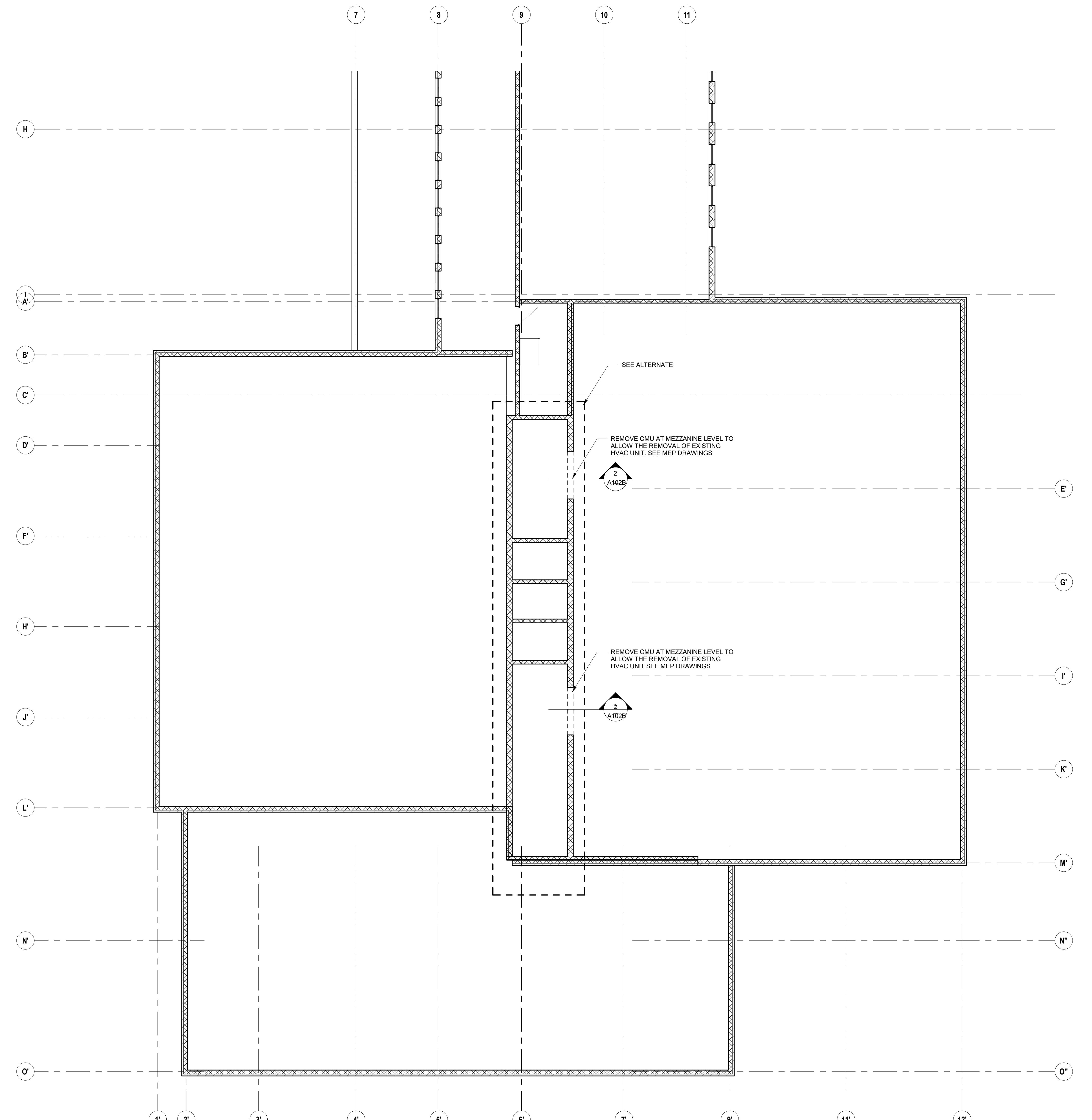
Drawing Title:

SECOND FLOOR
 DEMOLITION PLAN
 PART A

Sheet Number:

D102A





1 Second Floor DEMOLITION PLAN PART B
D102B 1/8" = 1'-0"

Project:
Weston & Sampson

Weston & Sampson
Weston & Sampson Engineers, Inc.
100 Foxborough Road, Suite 250
Foxborough, MA 02035
(508) 698-3034 (800) SAMPSON
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Consultants:
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(860) 677-4594
qamarch.com

Seal:

Revisions:
Rev Date Description

Issued For: FOR BID

PROJECT TRUE

ADDENDUM 2
SCALE: AS NOTED

Date: APRIL 21, 2020
Drawn By: JCB
Reviewed By: AC
Approved By: -
W&S Project No: Do Not Use

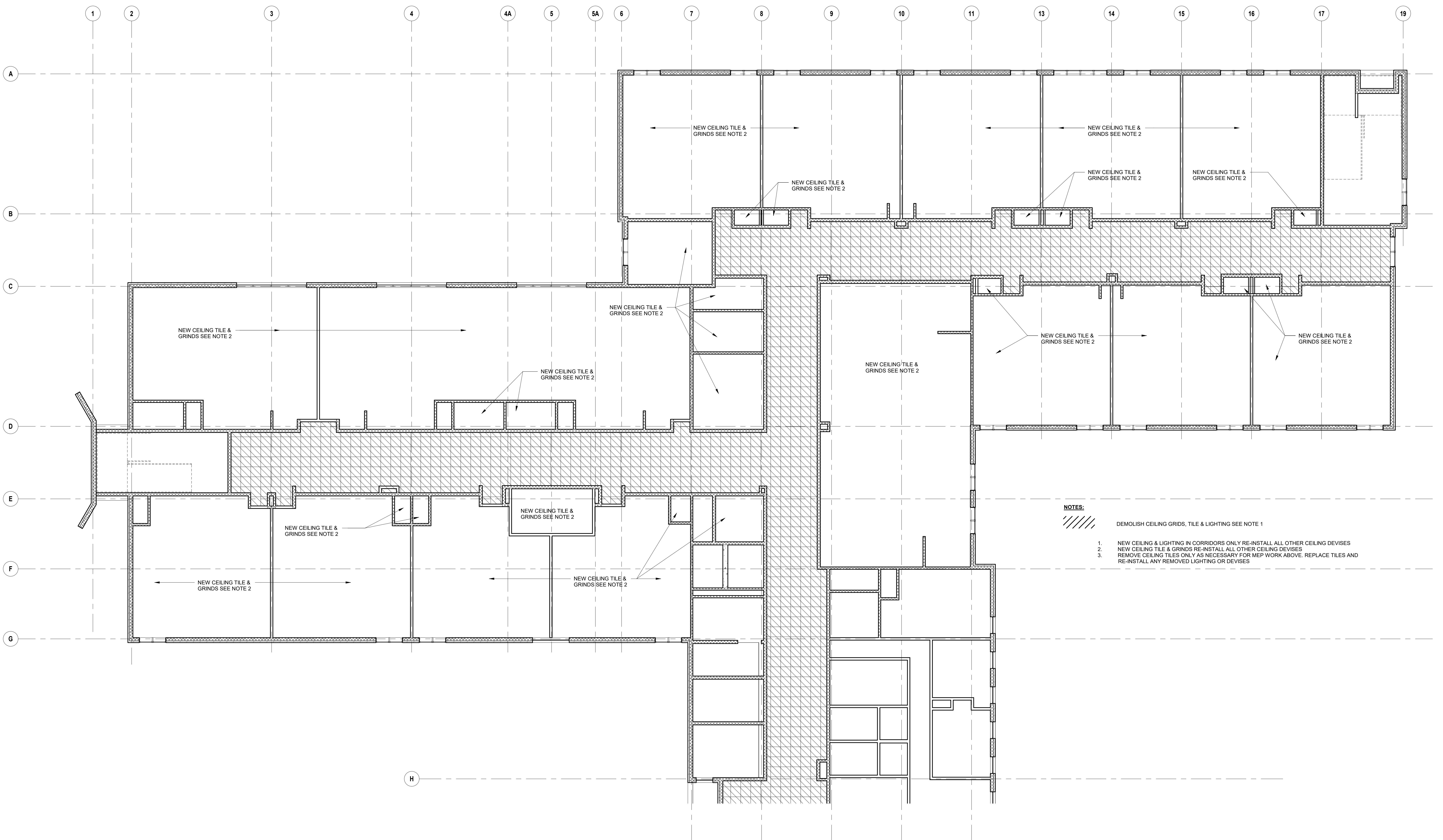
Drawing Title:
SECOND FLOOR
DEMOLITION PLAN
PART B
Sheet Number:
D102B
WESTON & SAMPSON COPYRIGHT 2018

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 (860) 677-4594
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Reflected Ceiling First Floor DEMOLITION PLAN
PART A
 D104 A 1/8" = 1'-0"

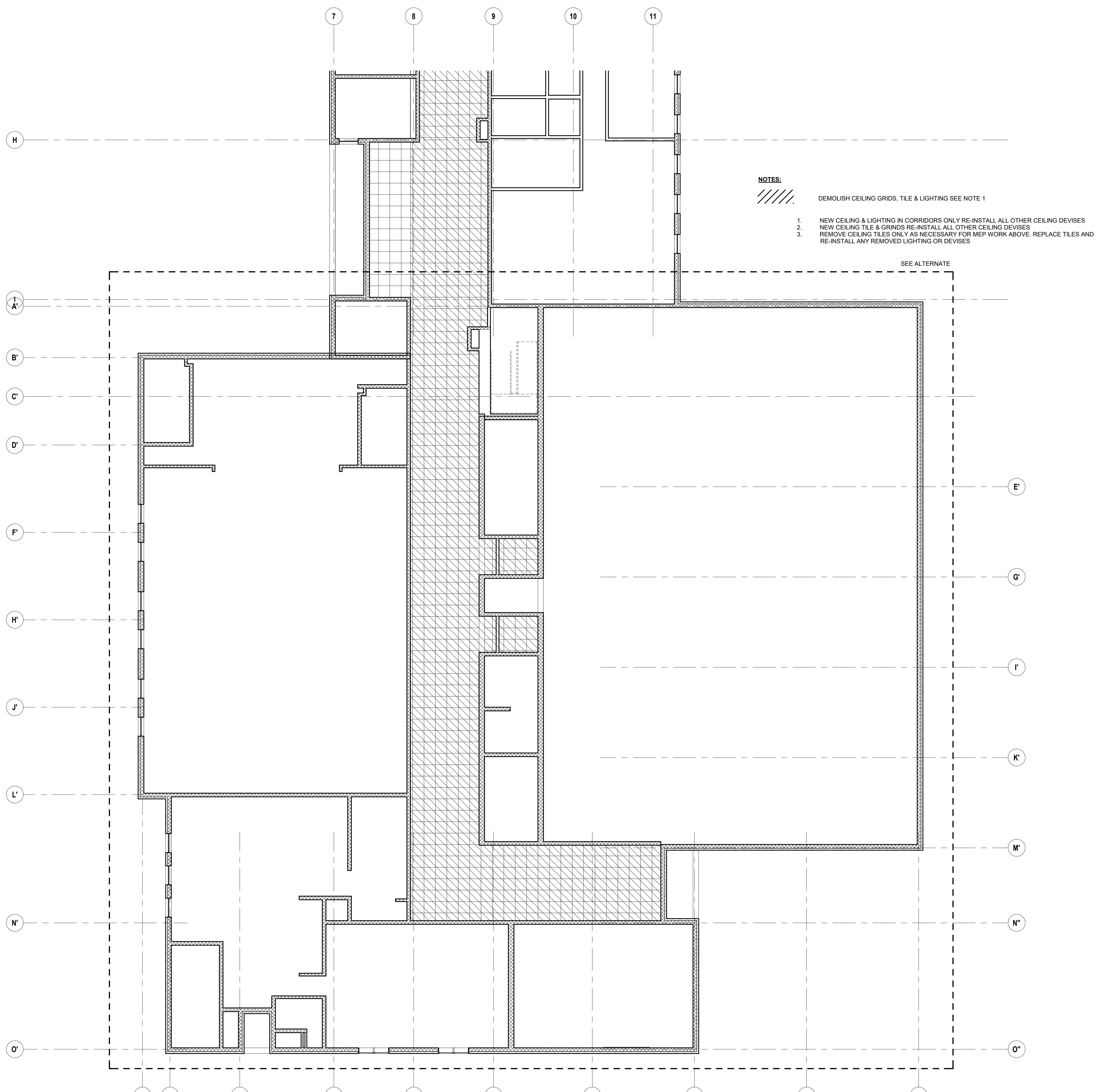
Drawing Title:

FIRST FLOOR RCP
 DEMOLITION PLAN
 PART A

Sheet Number:

D104 A

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Reflected Ceiling First Floor DEMOLITION PLAN

PART B

1 D104B 1/8" =

D104B 1/8" =

1000

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Consultants:

QA+M
architecture

Quisenberry Arcari Malik

Seal:

1000

1

The image contains two circular logos. The left logo is labeled 'PROJECT' and the right logo is labeled 'TRUE'. Both logos feature a white stylized 'T' shape pointing upwards, centered within a black circle.

ADDENDUM 2

Date: APRIL 21, 2020
Drawn By: Author
Reviewed By: Checker
Approved By: Approver

W&S Project No: Do Not Use

Drawing Title

1ST FLOOR RCP DEMOLITION PLAN PART B

114

D104B

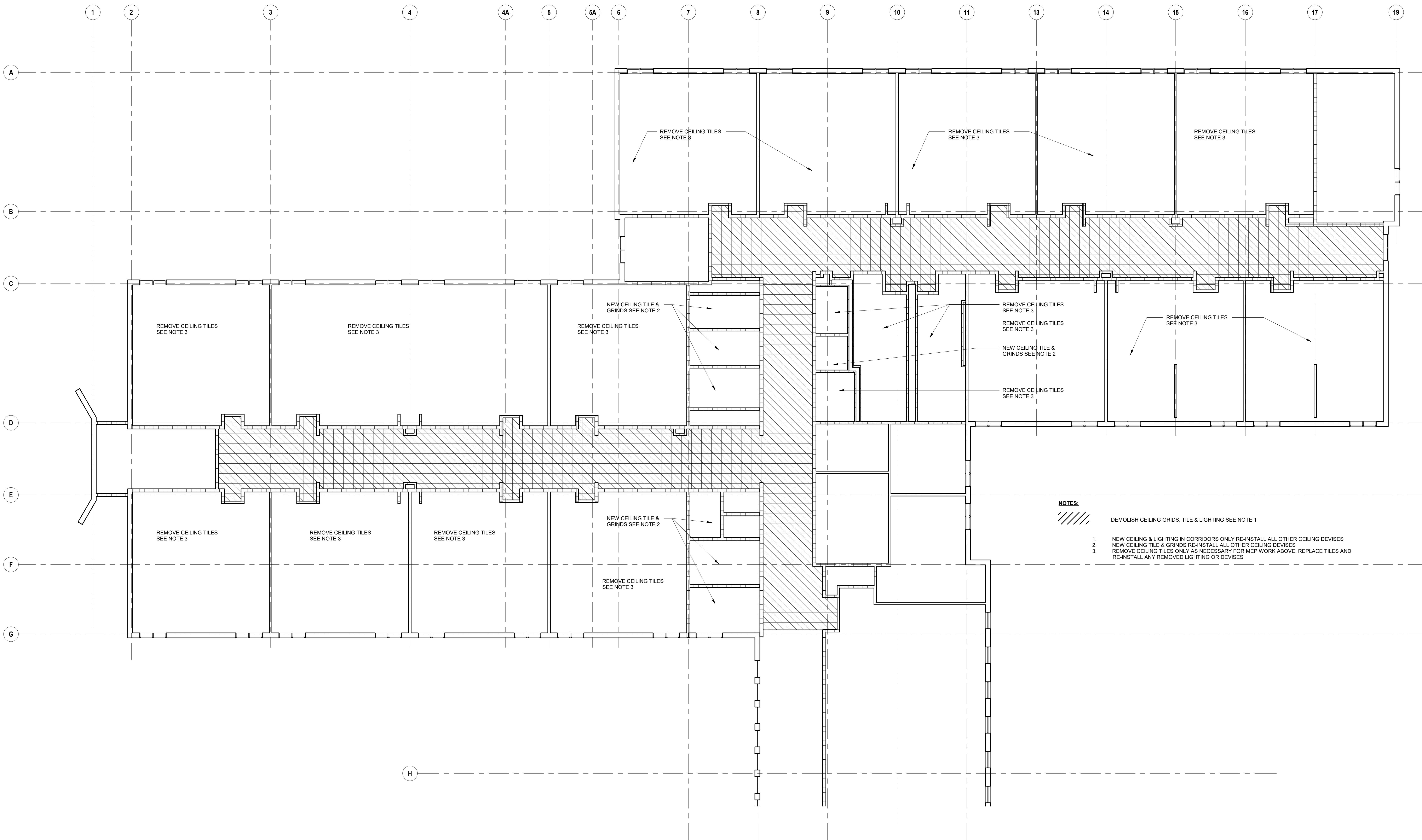
Project:

Weston & Sampson
 Weston & Sampson Engineers, Inc.
 100 Foxborough Road, Suite 250
 Foxborough, MA 02035
 (508) 698-3034 (800) SAMSON
www.westonandsampson.com

Consultants:

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 architecture

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Reflected Ceiling Second Floor Demolition Plan

PART A

D105 A 1/8" = 1'-0"

FOR BID

PROJECT TRUE

ADDENDUM 2

SCALE: AS NOTED

Date: APRIL 21, 2020

Drawn By: JCB

Reviewed By: AC

Approved By: -

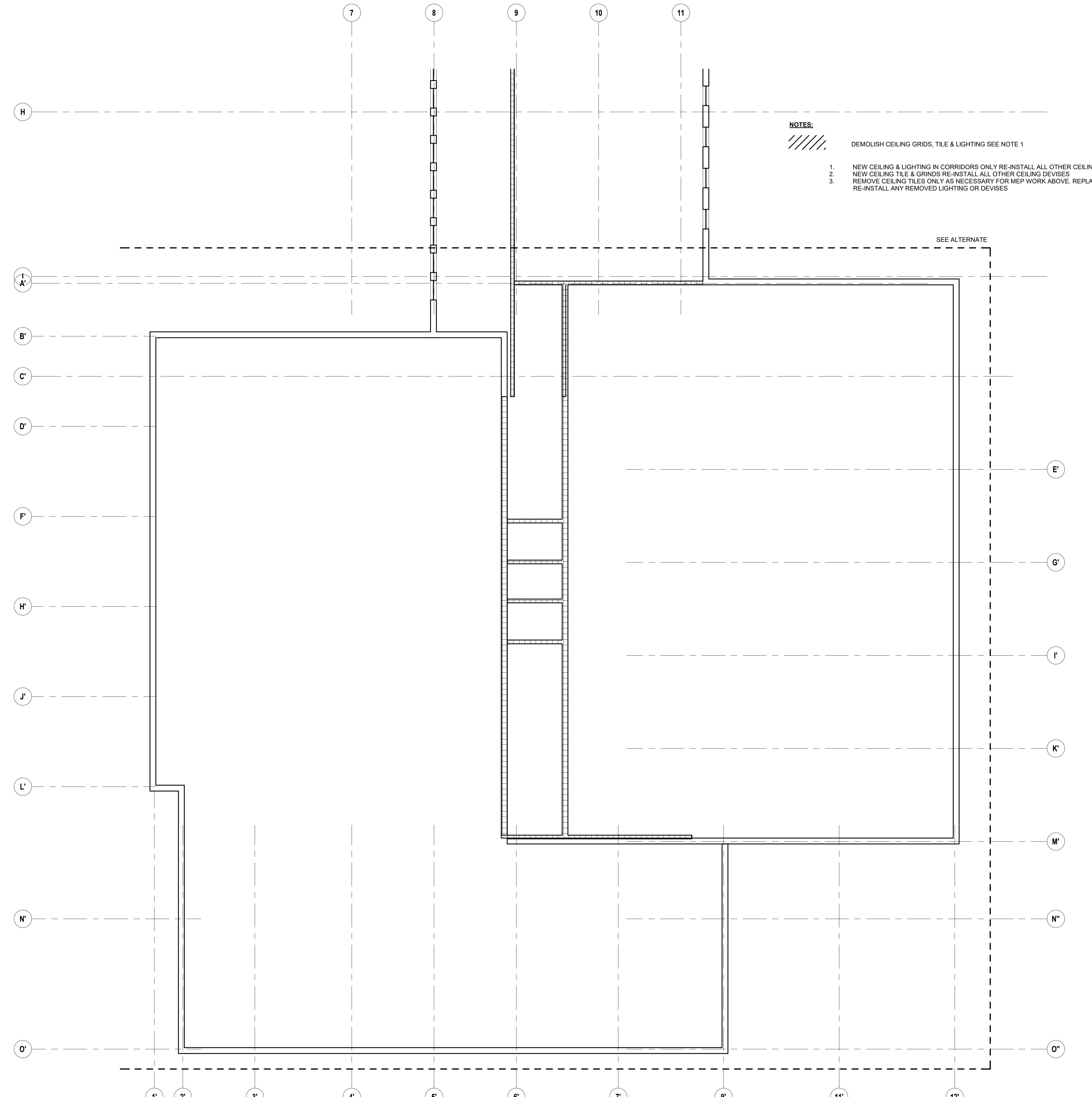
W&S Project No: Do Not Use

Drawing Title:

**SECOND FLOOR
 RCP DEMOLITION
 PLAN PART A**

Sheet Number:

D105 A



Reflected Ceiling Second Floor Demolition Plan

PART B

1
0105 B 1/8" = 1'-0"

1000

The logo for Weston & Sampson Engineers, Inc. It features the company name in a stylized font where 'Weston' is blue and 'Sampson' is green, separated by a large ampersand (&). A small 'SM' is in the top right corner of the ampersand. Below the name is a thin blue horizontal line.

Consultants:

QA+M architecture

Seal:

Revisions:

Issued For

The logo consists of two black circular icons with white stylized 'T' or arrowheads pointing upwards and to the right. Below the left icon is the word 'PROJECT' and below the right icon is the word 'TRUE'.

ADDENDUM 2

SCALE: AS NOTED

Date: APRIL 21, 2020

Drawn By: JCB

Reviewed By: AC

Approved By: -

W&S Project No: Do Not Use

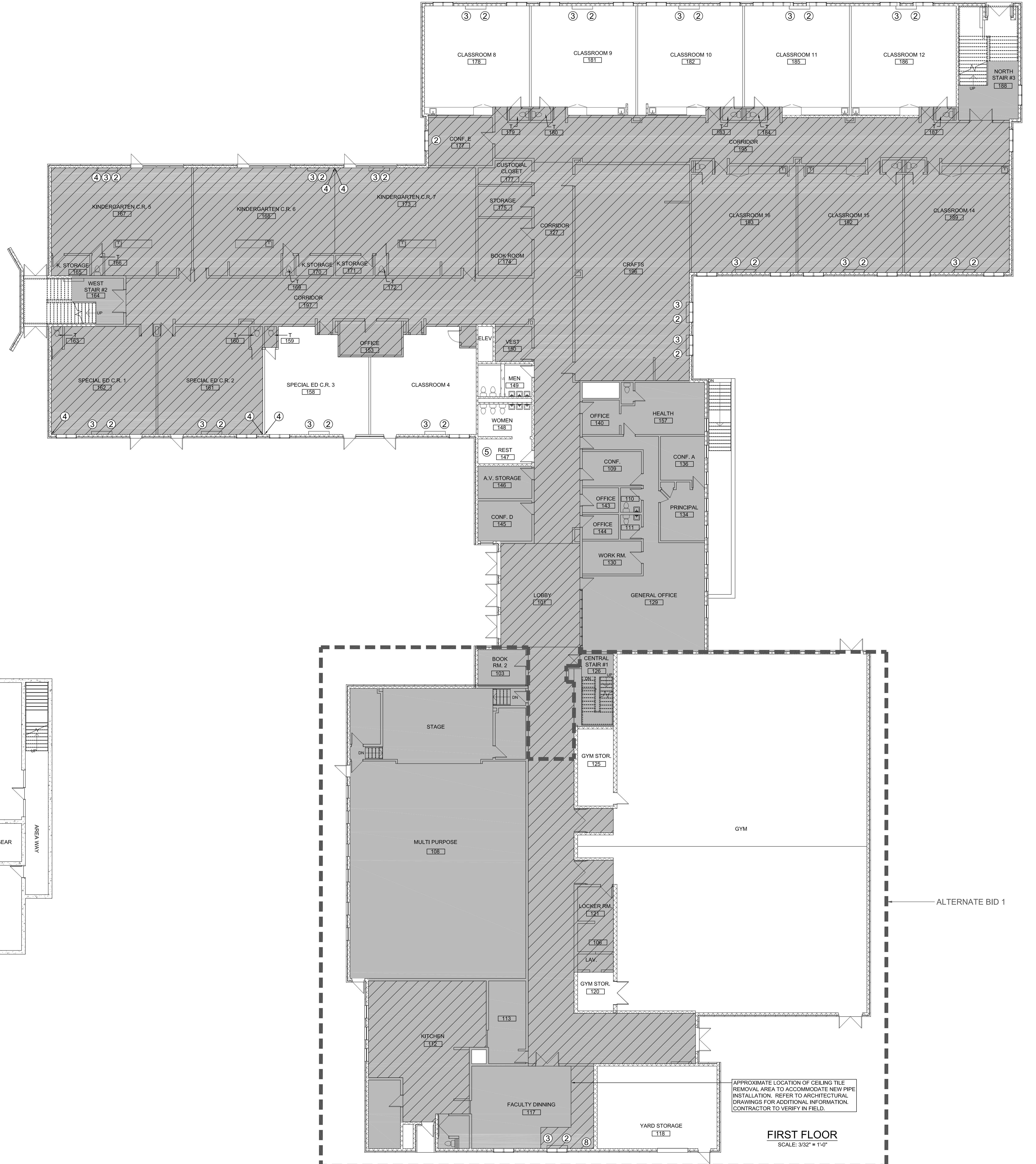
Drawing Title:

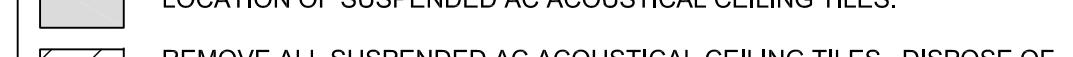
SECOND FLOOR RCP DEMOLITION PLAN PART B

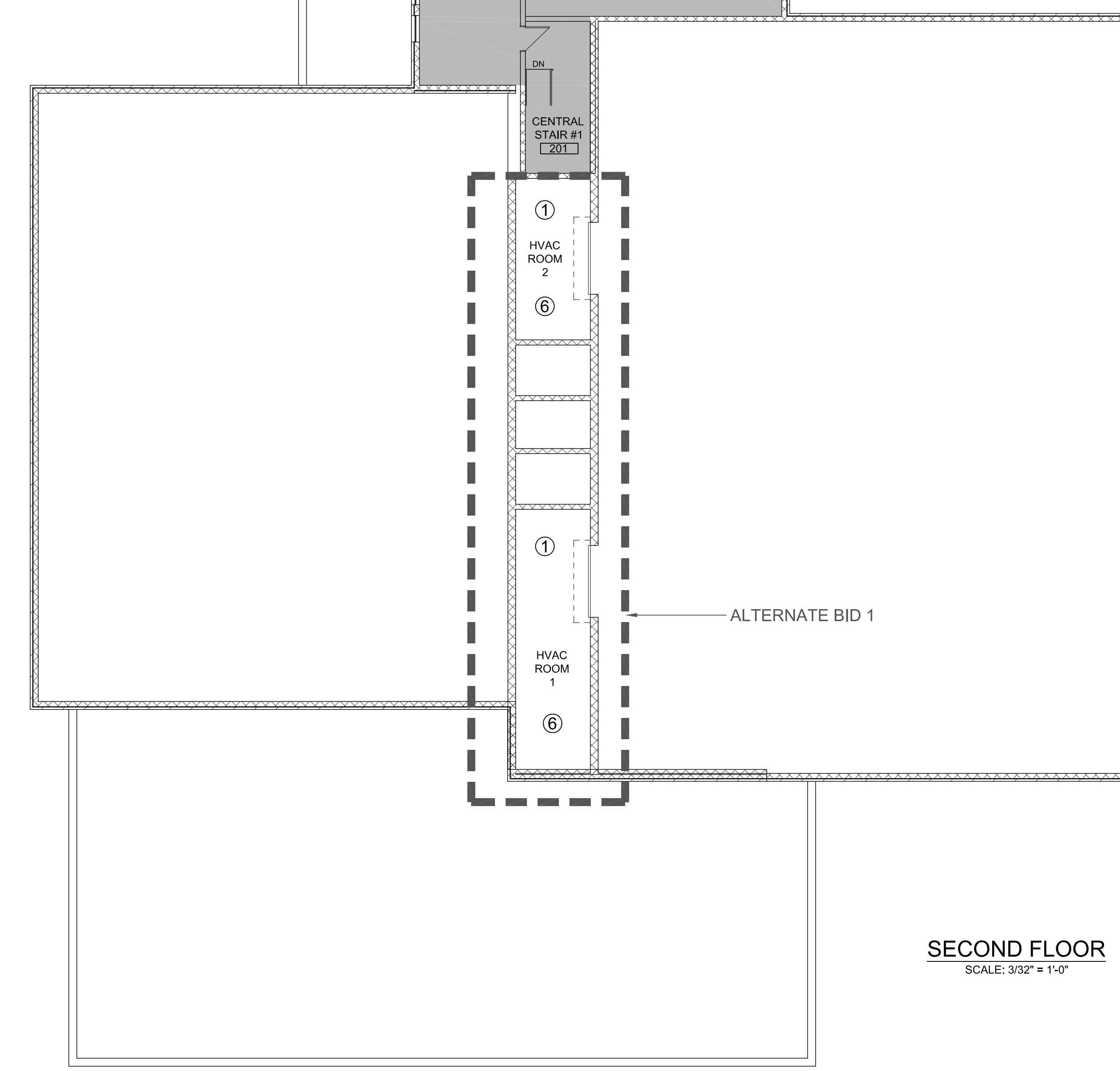
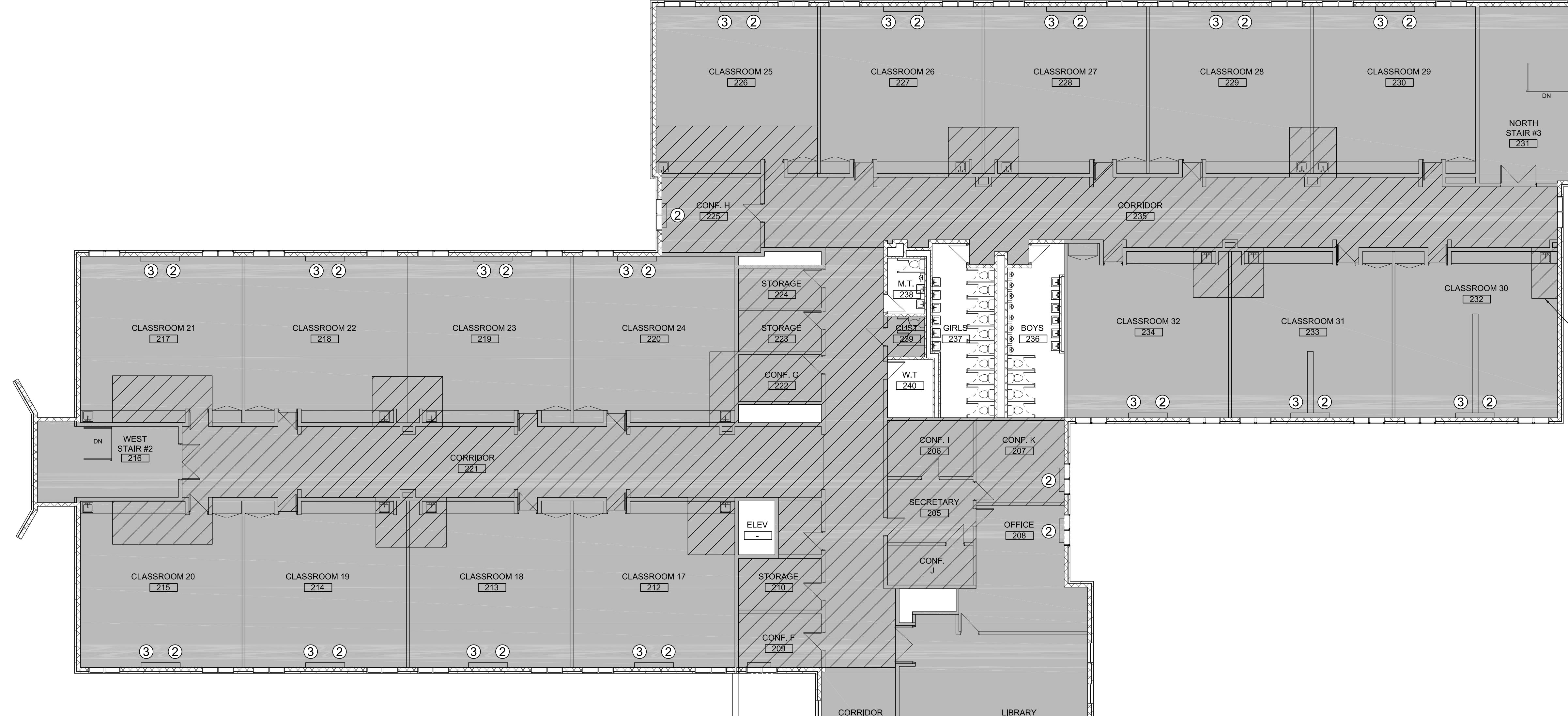
Sheet Number:

D105 B

ABATEMENT NOTES:	
AC = ASBESTOS CONTAINING	PCB'S = POLYCHLORINATED BIPHENYL
LOCATION OF SUSPENDED AC ACOUSTICAL CEILING TILES.	
REMOVE ALL SUSPENDED AC ACOUSTICAL CEILING TILES, DISPOSE OF AS FRIABLE ASBESTOS WASTE. DECONTAMINATE ALL CEILING GRIDS SCHEDULED TO REMAIN.	
① REMOVE ALL AC MUDDIED INSULATION AND WOVEN CLOTH WRAP ON FIBERGLASS INSULATION. DISPOSE OF AS FRIABLE ASBESTOS WASTE.	
② REMOVE ALL AC TAR COATING ON INTERIOR OF UNIT HEATER. DISPOSE OF AS FRIABLE ASBESTOS WASTE.	
③ REMOVE ALL AC MUDDIED PACKING AT VALVE ON INTERIOR OF UNIT HEATER. DISPOSE OF AS FRIABLE ASBESTOS WASTE.	
④ REMOVE ALL SHEETROCK AND ASSOCIATED AC JOINT COMPOUND AND VINYL COVE BASE AT PIPE CHASE. DISPOSE OF AS FRIABLE ASBESTOS WASTE.	
⑤ REMOVE ENTIRE LIGHT FIXTURE WITH AC FIXTURE PAPER. DISPOSE OF AS FRIABLE ASBESTOS WASTE.	
⑥ REMOVE ALL AC SEALANT AT FILTER BOX TO HVAC UNIT. DISPOSE OF AS ASBESTOS AND PCB WASTE GREATER THAN 50 PPM.	
⑦ NOT USED	
⑧ REMOVE ALL VINYL COVE BASE ADHESIVE FROM CMU AT PIPE CHASE. DISPOSE OF AS ASBESTOS WASTE.	
LEAD-BASED PAINT NOTE:	
HIGH LEVELS OF LEAD (1.0 MOIC/m ²) WERE IDENTIFIED ON THE FOLLOWING SURFACES: EXTERIOR WOOD DOOR, OVERHANG, METAL VENTS, METAL LINTELS TO VENTS AND INTERIOR STRUCTURAL STEEL.	
UNIVERSAL WASTE KEY:	
U-SHAPED FLUORESCENT BULBS: (162 EA) (CORRIDORS ONLY)	



ABATEMENT NOTES:	
AC = ASBESTOS CONTAINING	
PCB'S = POLYCHLORINATED BIPHENYL	
LOCATION OF SUSPENDED AC ACOUSTICAL CEILING TILES.	
 REMOVE ALL SUSPENDED AC ACOUSTICAL CEILING TILES. DISPOSE OF AS FRIABLE ASBESTOS WASTE. DECONTAMINATE ALL CEILING GRIDS SCHEDULED TO REMAIN.	
① REMOVE ALL AC MUDDIED INSULATION AND WOVEN CLOTH WRAP ON FIBERGLASS INSULATION. DISPOSE OF AS FRIABLE ASBESTOS WASTE.	
② REMOVE ALL AC TAR COATING ON INTERIOR OF UNIT HEATER. DISPOSE OF AS NON-FRIABLE ASBESTOS WASTE.	
③ REMOVE ALL AC MUDDIED PACKING AT VALVE ON INTERIOR OF UNIT HEATER. DISPOSE OF AS FRIABLE ASBESTOS WASTE.	
④ REMOVE ALL SHEETROCK AND ASSOCIATED AC JOINT COMPOUND AND VINYL COVE BASE AT PIPE CHASE. DISPOSE OF AS FRIABLE ASBESTOS WASTE.	
⑤ REMOVE ENTIRE LIGHT FIXTURE WITH AC FIXTURE PAPER. DISPOSE OF AS FRIABLE ASBESTOS WASTE.	
⑥ REMOVE ALL AC SEALANT AT FILTER BOX TO HVAC UNIT. DISPOSE OF AS ASBESTOS AND PCB WASTE GREATER THAN 50 PPM.	
⑦ NOT USED	
⑧ REMOVE ALL VINYL COVE BASE ADHESIVE FROM CMU AT PIPE CHASE. DISPOSE OF AS ASBESTOS WASTE.	
LEAD-BASED PAINT NOTE:	
HIGH LEVELS OF LEAD (1.0 MOIC/m ²) WERE IDENTIFIED ON THE FOLLOWING SURFACES: EXTERIOR WOOD DOOR, OVERHANG, METAL VENTS, METAL LINTELS TO VENTS AND INTERIOR STRUCTURAL STEEL.	
UNIVERSAL WASTE KEY:	
U-SHAPED FLUORESCENT BULBS: (162 EA) (CORRIDORS ONLY)	



Project:
CONTRACT 2C20-064

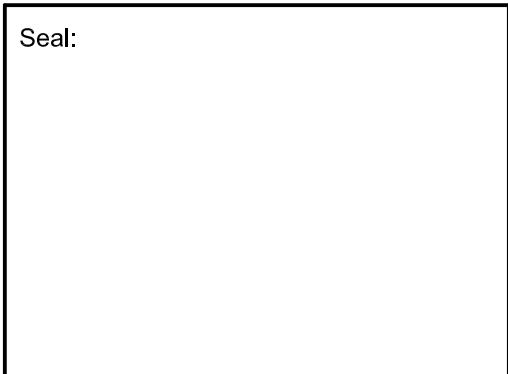
MECH IMPROVEMENTS AT
SOUTH SIDE ELEMENTARY
SCHOOL BRISTOL, CT
21 Tuttle Rd.
Bristol, CT 06010

Weston & Sampson
Weston & Sampson Engineers, Inc.
100 Faxon Drive, Suite 250
Foxborough, MA 02035
(508) 698-3034 (800) SAMPSON
www.westonandsampson.com

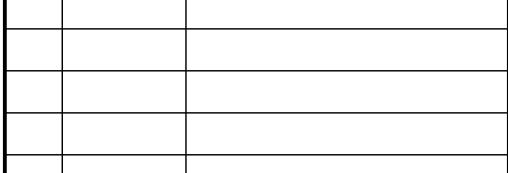
Consultants:
QA+M
architecture
Quisenberry Arcan Malik
198 South Swamp Road
Farmington, CT 06032
(860) 677-4594
qamarch.com


EAGLE
Environmental, Inc.
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TERRYVILLE, CONNECTICUT 06786
860-589-8237

Seal:



Revisions:
Rev Date Description
1 4/15/2020 ADDENDUM #1



Issued For: ADDENDUM #1

 PROJECT  TRUE

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SCALE: 3/32" = 1'-0"


Date: April 14, 2020
Drawn By: BB
Reviewed By: CL
Approved By: CL
W&S Project No: 2191117

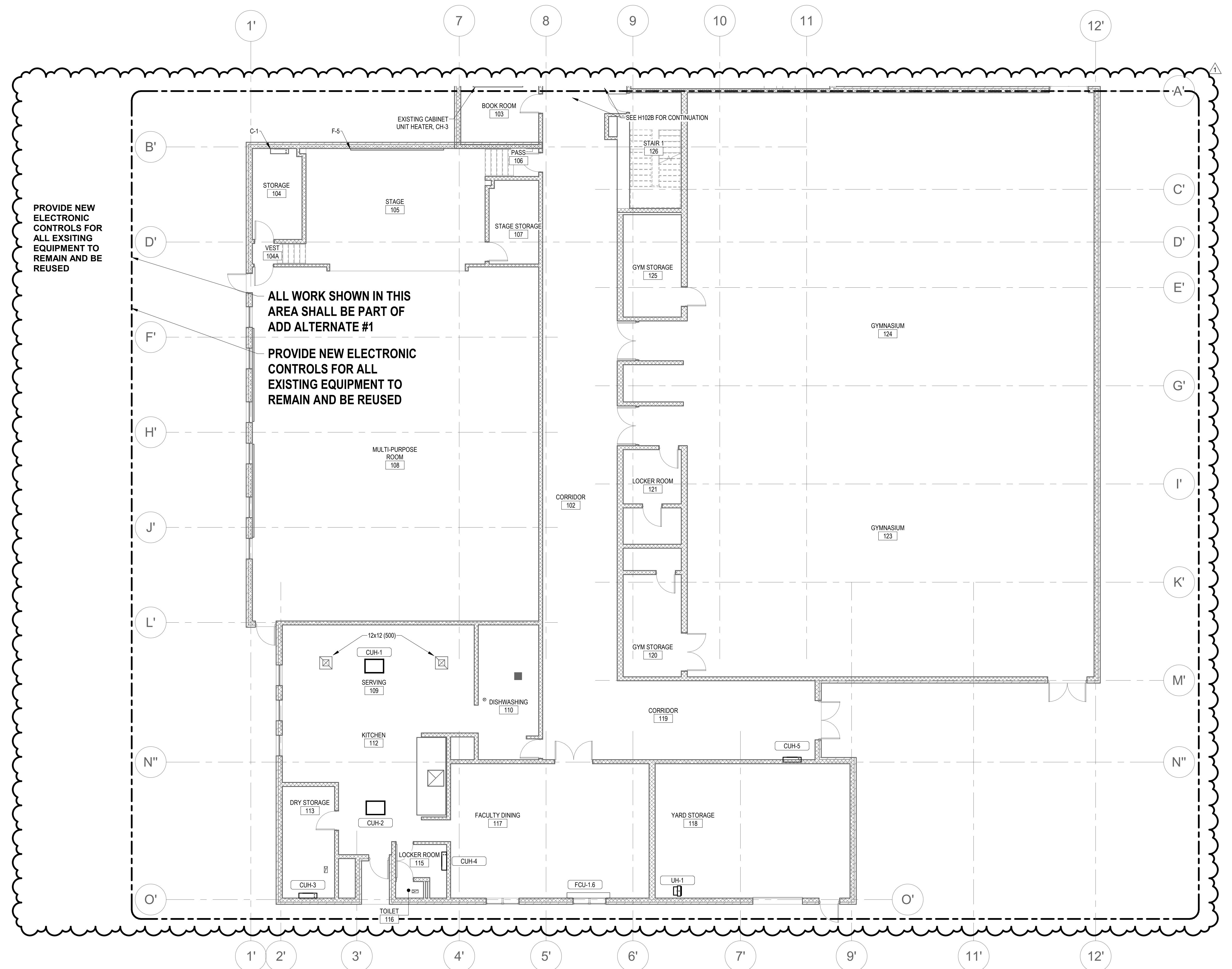
Drawing Title:

SECOND FLOOR
ABATEMENT PLAN

Sheet Number:

HM-2





GENERAL NOTES

1. ALL EXISTING DUCTWORK SHALL BE CLEANED TO COMPLY WITH NADCA AIR DUCT CLEANING STANDARDS.
2. ALL NEW HANGERS SHALL BE ATTACHED TO THE EXISTING STEEL VIA CLAMP ON STYLE HANGERS. NO WELDING ALLOWED AS THE STEEL IS COVERED WITH LEAD PAINT.

Project: CONTRACT 2C20-064
 CONTRACT 2C20-064
 Bristol, CT

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Consultants:
QA+M
 architecture
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 CT 06024-5064
 38 LEXINGTON FARMINGTON, CT 06032-1000
 Connecticut | Massachusetts | North Carolina

Seal:

Revisions:

Rev	Date	Description
1	4/15/2020	ADDENDUM #1

Issued For: ADDENDUM #1

PROJECT TRUE

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

Date: April 15, 2020
 Drawn By: MRC
 Reviewed By: SEH
 Approved By: SEH
 W&S Project No: 2191117

Drawing Title:

FIRST FLOOR
 DUCTWORK PLAN
 PART B

Sheet Number:

H101B



MECH IMPROVEMENTS AT
SOUTH SIDE ELEMENTARY
SCHOOL BRISTOL, CT

The logo for Weston & Sampson Engineers, Inc. It features the company name "Weston & Sampson" in a serif font. The word "Weston" is on the left, "Sampson" is on the right, and a large ampersand (&) is positioned between them. A thin circular line starts from the top of the ampersand and extends downwards and to the left, partially enclosing the "Weston" text. In the top right corner of the ampersand, there is a small "SM" in a superscript font, indicating a registered trademark.

Seal:

Issued For: BID SET

The image consists of two identical circular icons. Each icon contains a white, stylized arrow pointing upwards. The icons are positioned above the words 'PROJECT' and 'TRUE' respectively, which are written in a bold, black, sans-serif font.

A horizontal bar chart showing a single bar with a total length of 16'. The bar is divided into segments labeled 0', 4', 8', and 16'.

Date: April 2, 2020
Drawn By: MRC
Reviewed By: SEH
Approved By: SEH

Drawing Title:

SECOND FLOOR DUCTWORK PLAN PART A

Sheet Number:

H102A



Project:
CONTRACT 2C20-064

MECH IMPROVEMENTS AT

SOUTH SIDE ELEMENTARY

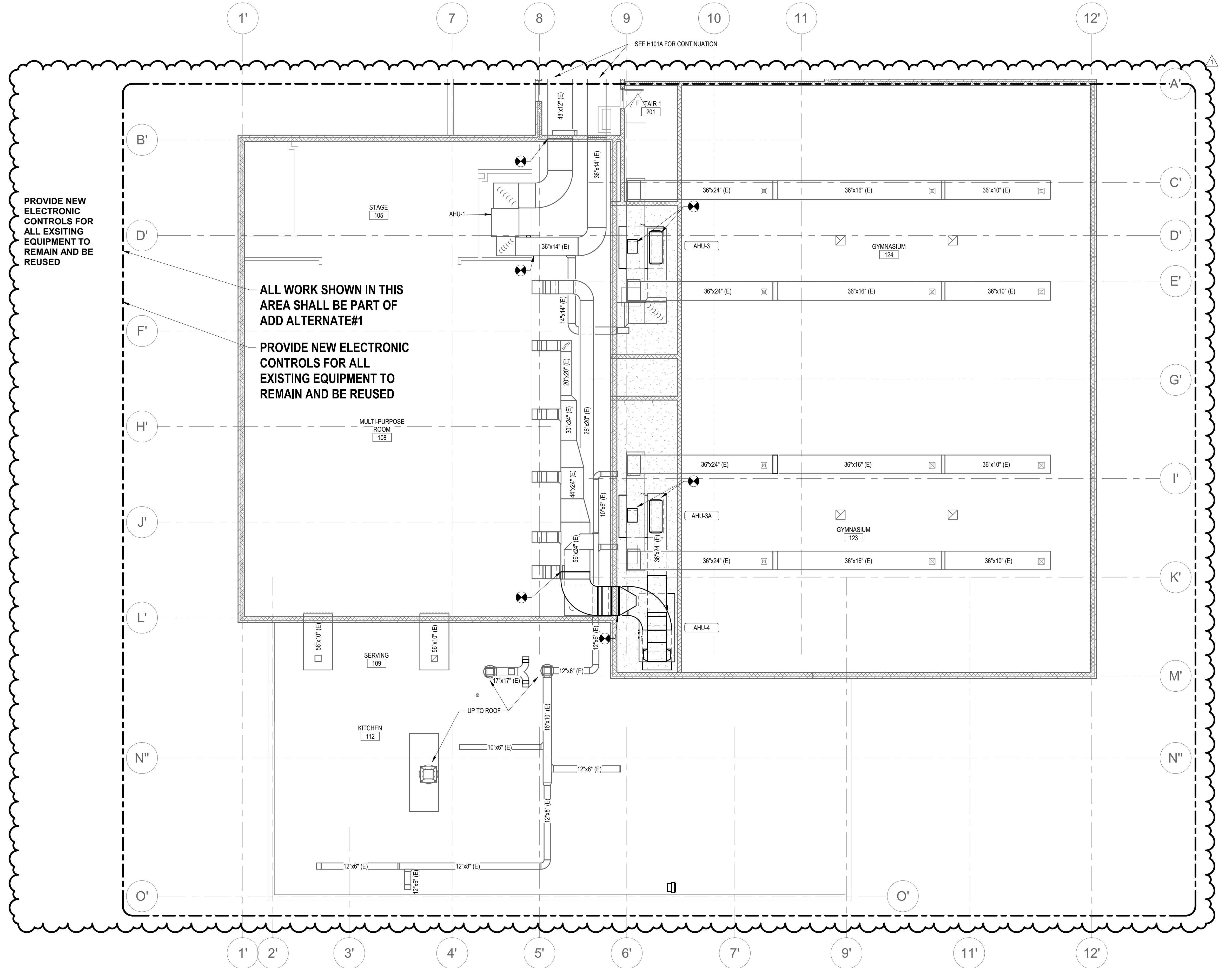
SCHOOL BRISTOL, CT

21 Tuttle Rd.

Bristol, CT 06010

GENERAL NOTES

1. ALL EXISTING DUCTWORK SHALL BE CLEANED TO COMPLY WITH NADCA AIR DUCT CLEANING STANDARDS
2. ALL DUCT HANGERS SHALL BE ATTACHED TO THE EXISTING STEEL VIA CLAMP-ON STYLE HANGERS. NO WELDING ALLOWED AS THE STEEL IS COVERED WITH LEAD PAINT.



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architecture

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198 Scott Swamp Road
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qamarchi.com

EAGLE
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Seal:

Revisions:

Rev	Date	Description
1	4/15/2020	ADDENDUM #1

Issued For: ADDENDUM #1

PROJECT TRUE

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

Date: April 15, 2020

Drawn By: MRC

Reviewed By: SEH

Approved By: SEH

W&S Project No: 2191117

Drawing Title:

SECOND FLOOR
DUCTWORK PLAN
PART B

Sheet Number:

H102B



Project:
CONTRACT 2C20-064

MECH IMPROVEMENTS AT
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Bristol, CT 06010

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Seal:

Revisions:
Rev Date Description
1 4/15/2020 ADDENDUM #1

Issued For: ADDENDUM #1

PROJECT TRUE

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

Date: April 15, 2020
Drawn By: MRC
Reviewed By: SEH
Approved By: SEH
W&S Project No: 2191117

Drawing Title:

ROOF PLAN PART
A

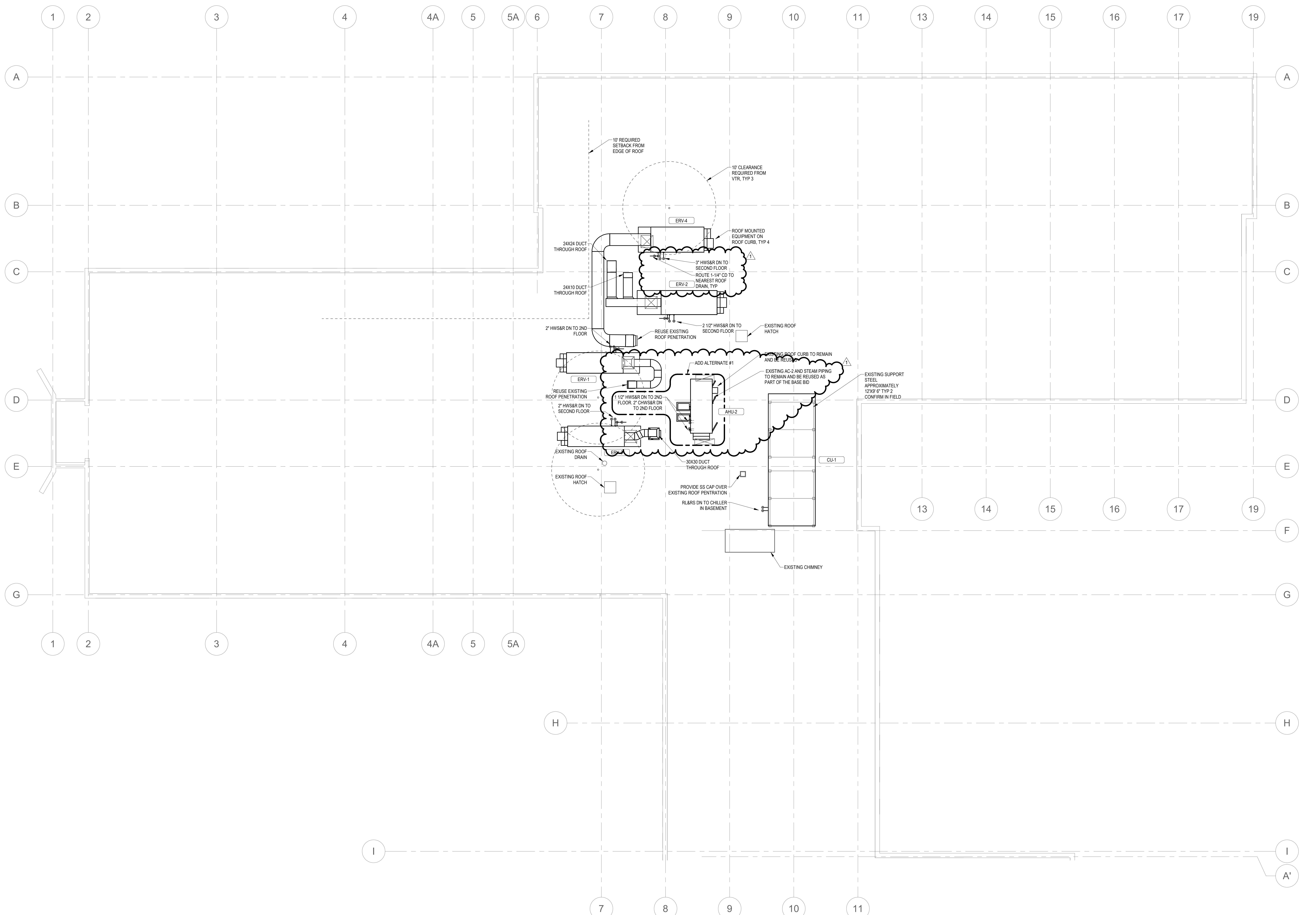
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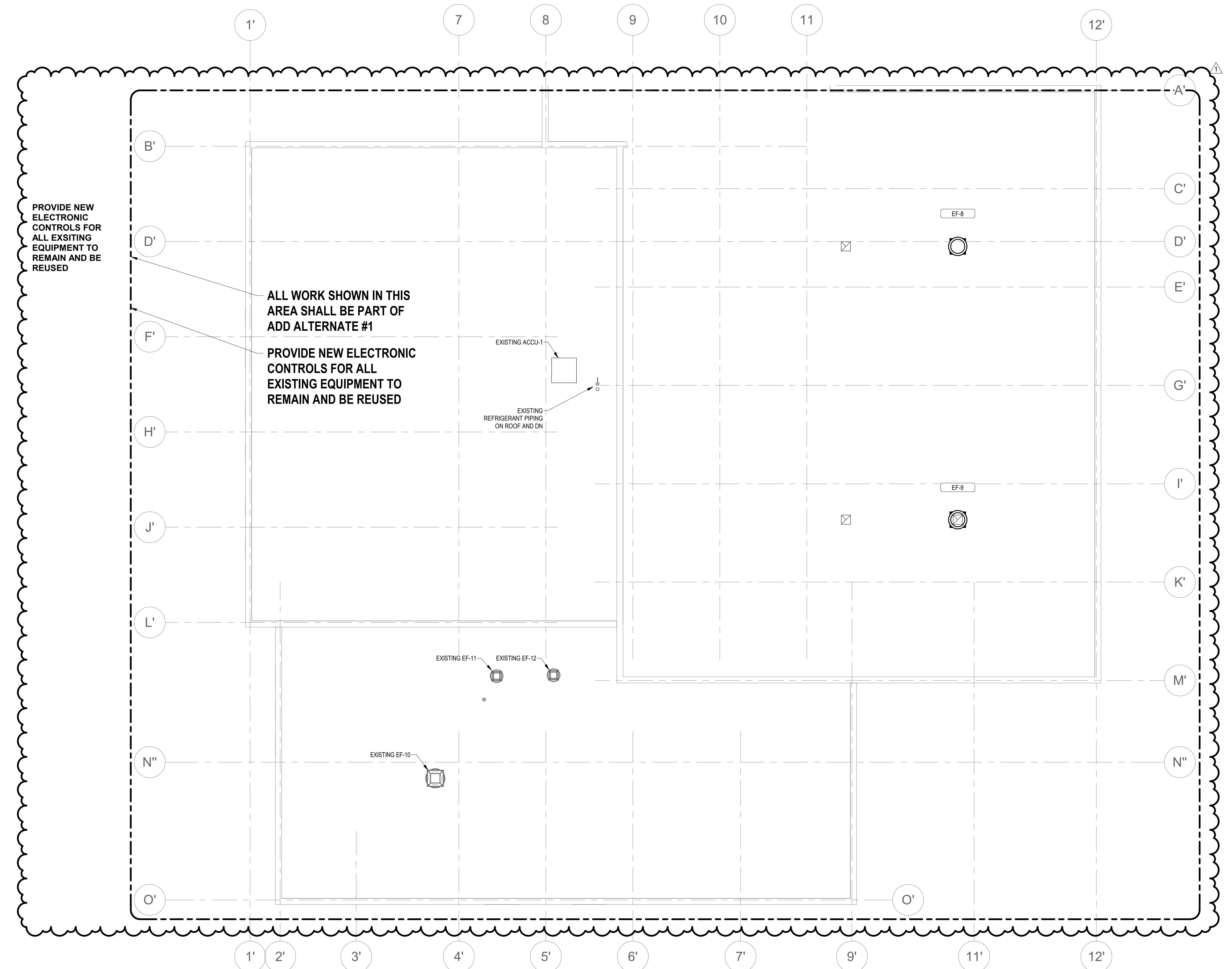
H103A

WESTON & SAMPSON COPYRIGHT 2018

GENERAL NOTES

- ALL EXISTING DUCTWORK SHALL BE CLEANED TO COMPLY WITH NADCA AIR DUCT CLEANING STANDARDS
- ALL NEW HANGERS SHALL BE ATTACHED TO EXISTING HANGER CLAMP OR STYLIC HANGERS. NO WELDING ALLOWED AS THE STEEL IS COVERED WITH LEAD PAINT.





GENERAL NOTES

1. ALL EXISTING DUCTWORK SHALL BE CLEANED TO COMPLY WITH NACDA AIR DUCT CLEANING STANDARDS.
2. ALL HANGERS SHALL BE ATTACHED TO THE EXISTING STEEL VIA CLAMP-ON STYLE HANGERS. NO WELDING ALLOWED AS THE STEEL IS COVERED WITH LEAD PAINT.



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Seal:

Revisions:

Rev	Date	Description
1	4/15/2020	ADDENDUM #1

Issued For: ADDENDUM #1

PROJECT TRUE

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

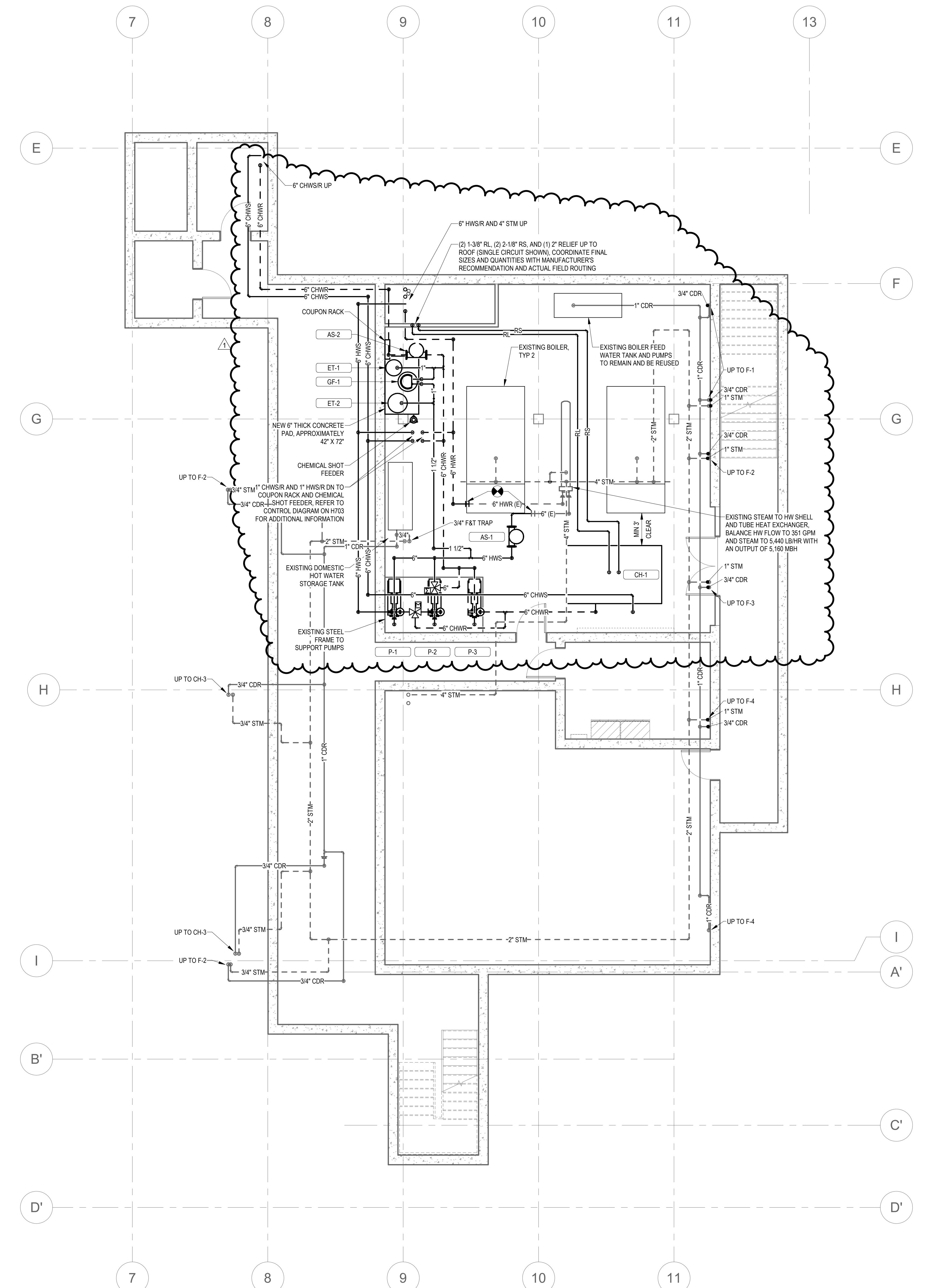
Date: April 15, 2020
Drawn By: MRC
Reviewed By: SEH
Approved By: SEH
W&S Project No: 2191117

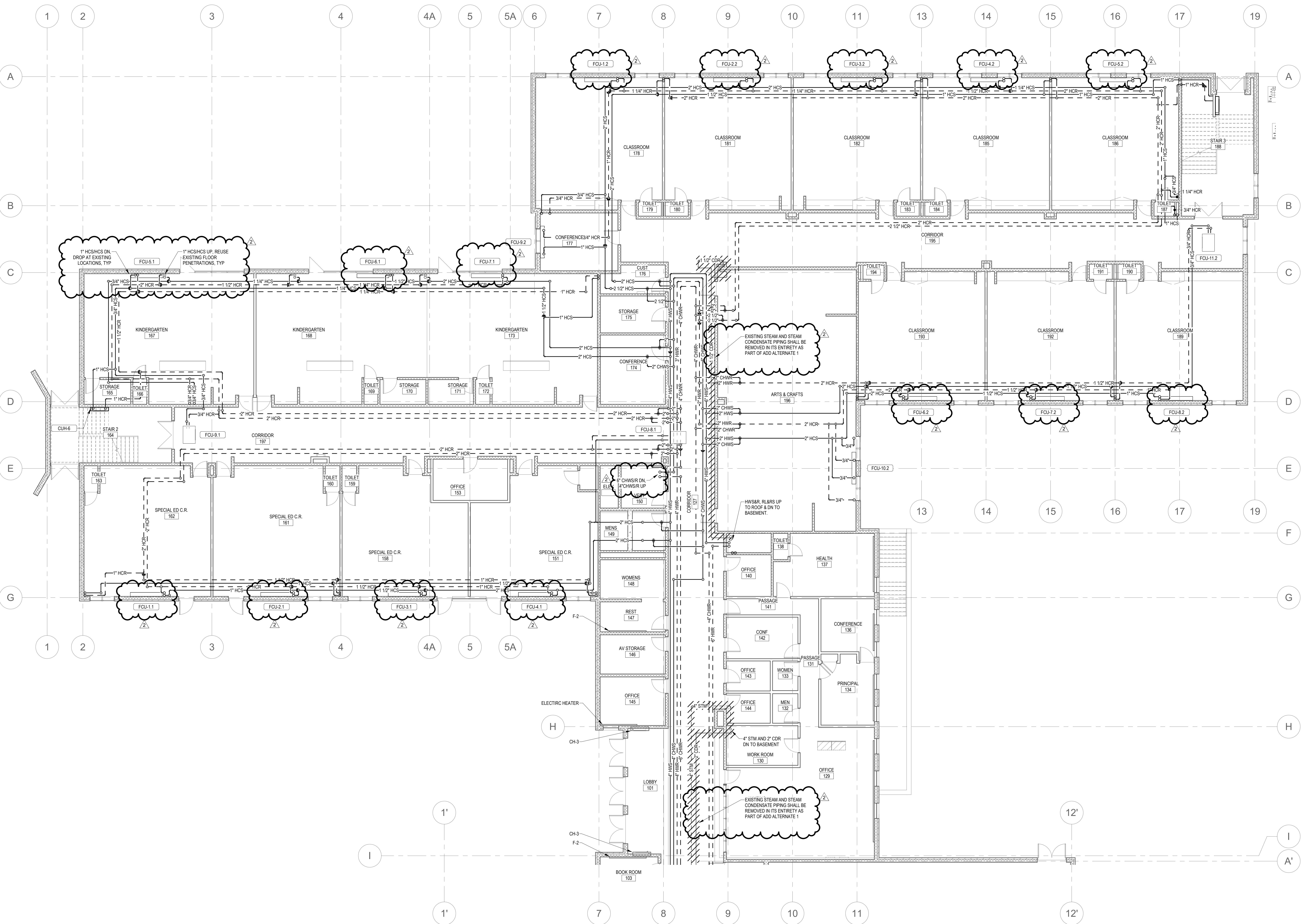
Drawing Title:

ROOF PLAN PART
B

Sheet Number:

H103B







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Seal:

Revisions:

Rev	Date	Description
1	4/15/2020	ADDENDUM #1

Issued For: ADDENDUM #1

PROJECT TRUE

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

Date: April 15, 2020

Drawn By: MRC

Reviewed By: SEH

Approved By: SEH

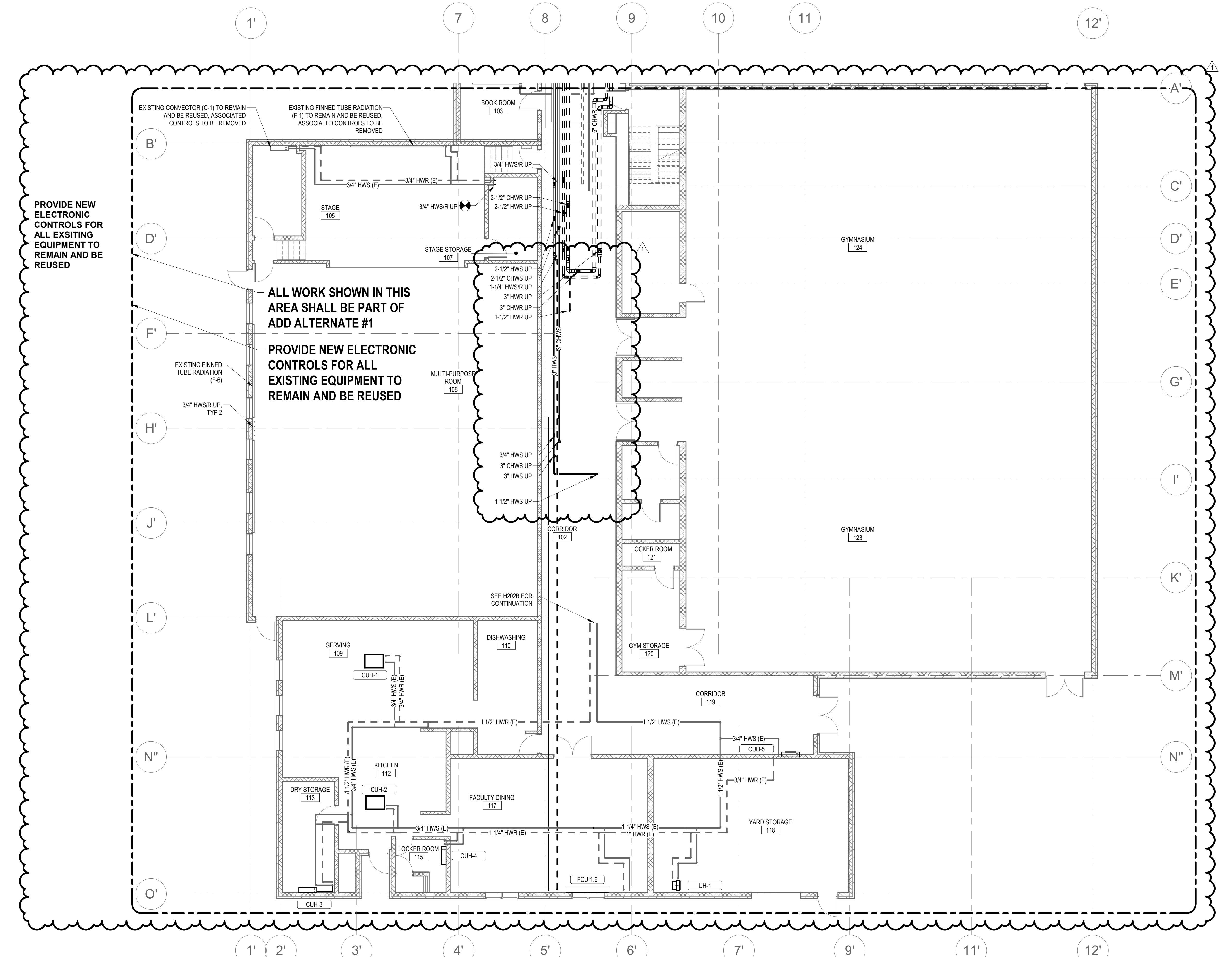
W&S Project No: 2191117

Drawing Title:

FIRST FLOOR
PIPING PLAN
PART B

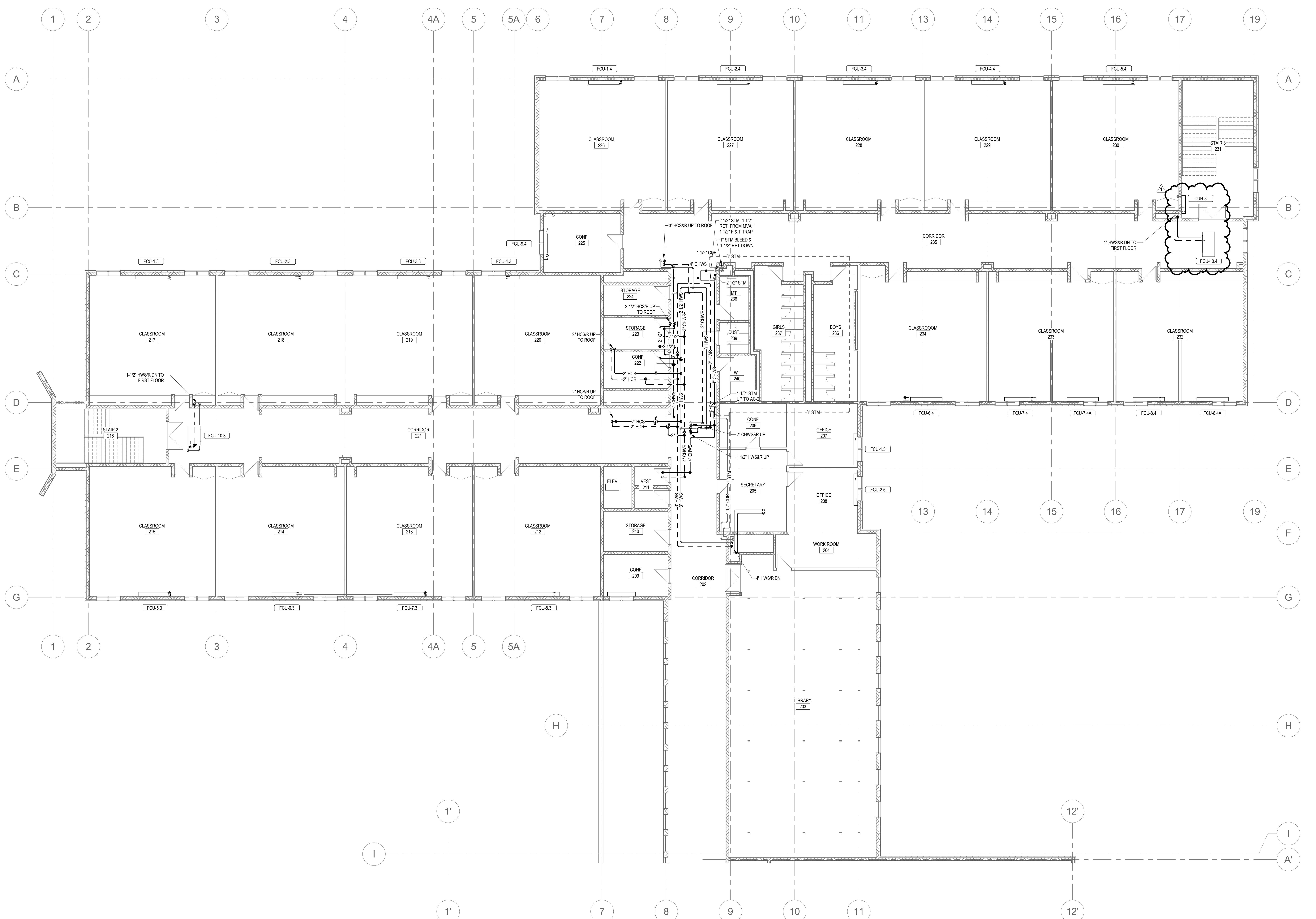
Sheet Number:

H201B



HVAC GENERAL NOTES:

1. ALL PIPING 3/4" UNLESS OTHERWISE NOTED.



Project:

CONTRACT 2C20-064



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SOUTH SIDE ELEMENTARY
SCHOOL BRISTOL, CT

The logo for Weston & Sampson Engineers, Inc. It features the company name in a serif font, with a stylized ampersand symbol between 'Weston' and 'Sampson'. A small 'S' is positioned in the top right corner of the 'son' part of the name.

consultants:

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QuisenberryArcariMalik

195 Scott Swamp Road
Farmington, CT 06032
(860) 677-4594
qamarch.com

real:

revisions:

Issued For: **ADDENDUM #1**

PROJECT TRUE

0' 4' 8' 16'

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

ate: April 15, 2020

rawn By: MRC

viewed By: SEH

pproved By: SEH

W&S Project No: 2191117

Drawing Title:

SECOND FLOOR PIPING PART PLAN A

Sheet Number:

H202A



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Revisions:

Rev	Date	Description
1	4/15/2020	ADDENDUM #1

Issued For:

ADDENDUM #1

PROJECT

TRUE

0' 4' 8' 16'

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

Date: April 15, 2020

Drawn By: MRC

Reviewed By: SEH

Approved By: SEH

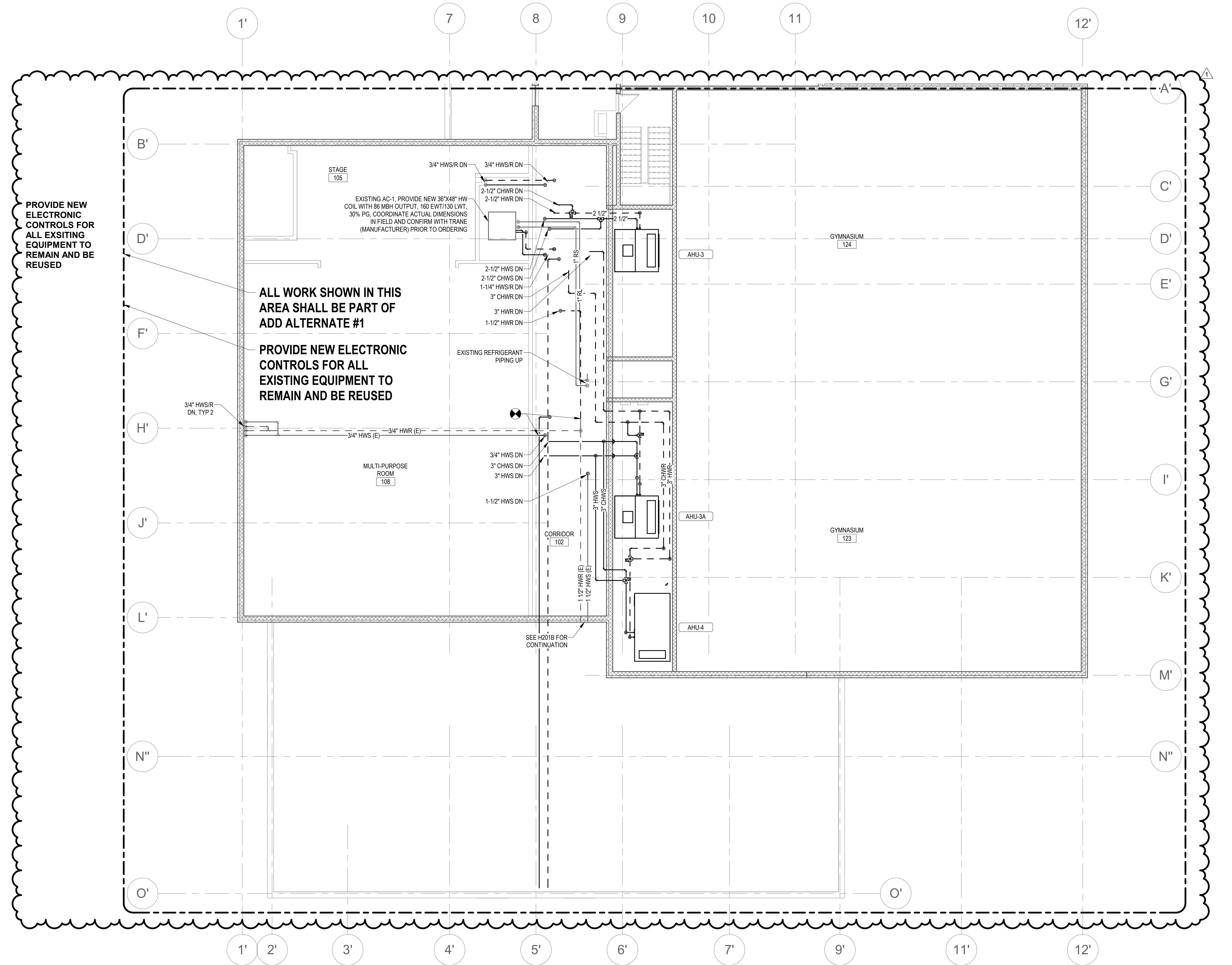
W&S Project No: 2191117

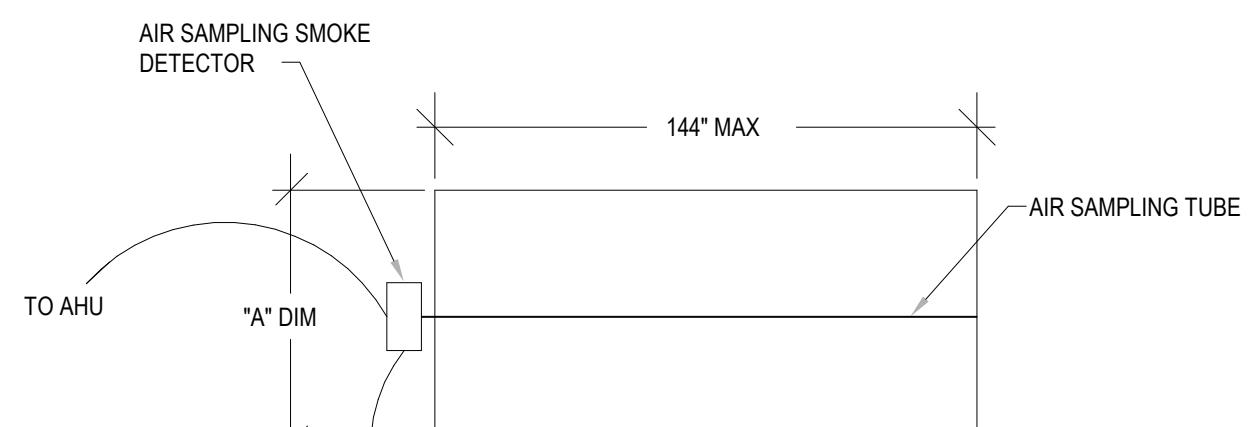
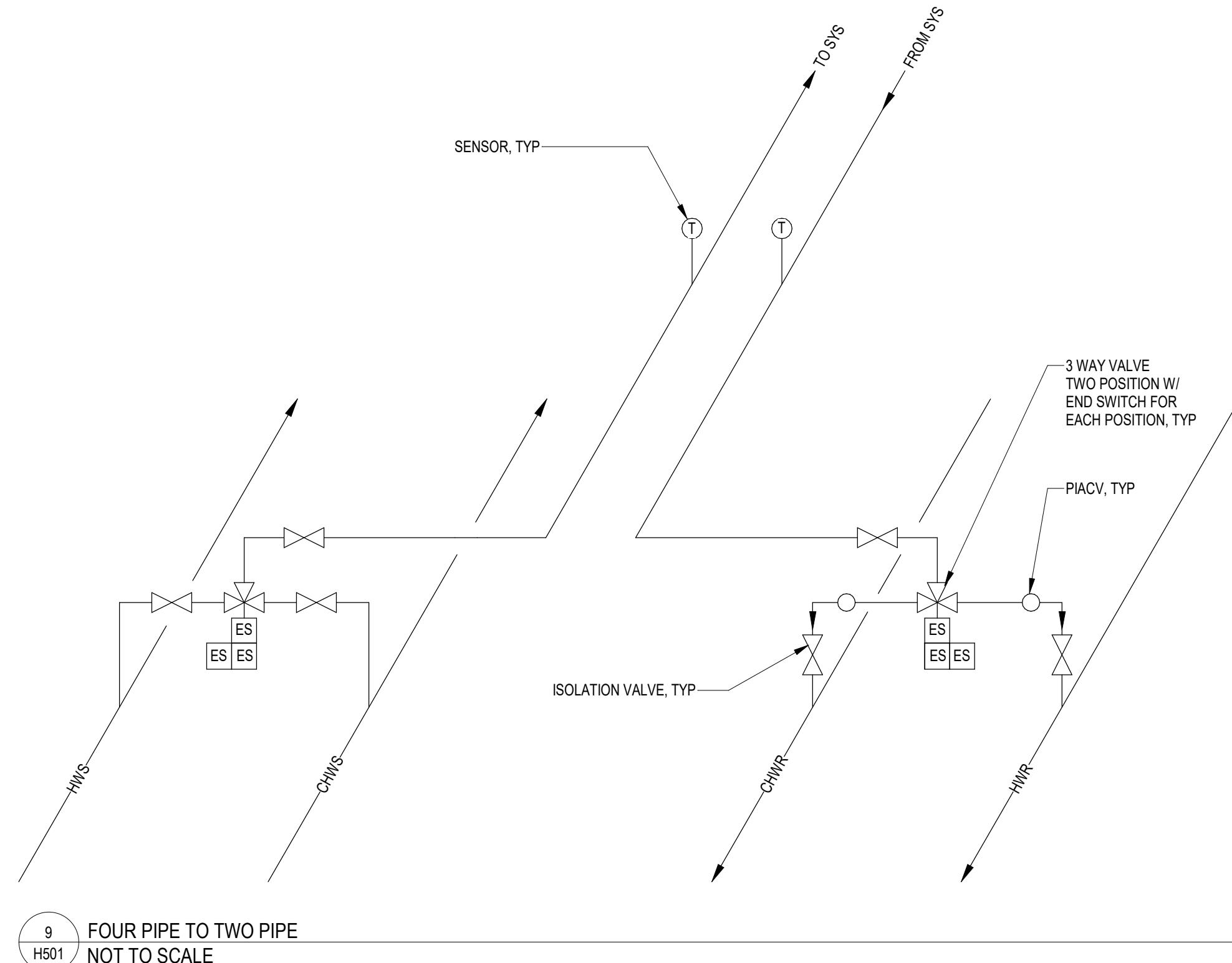
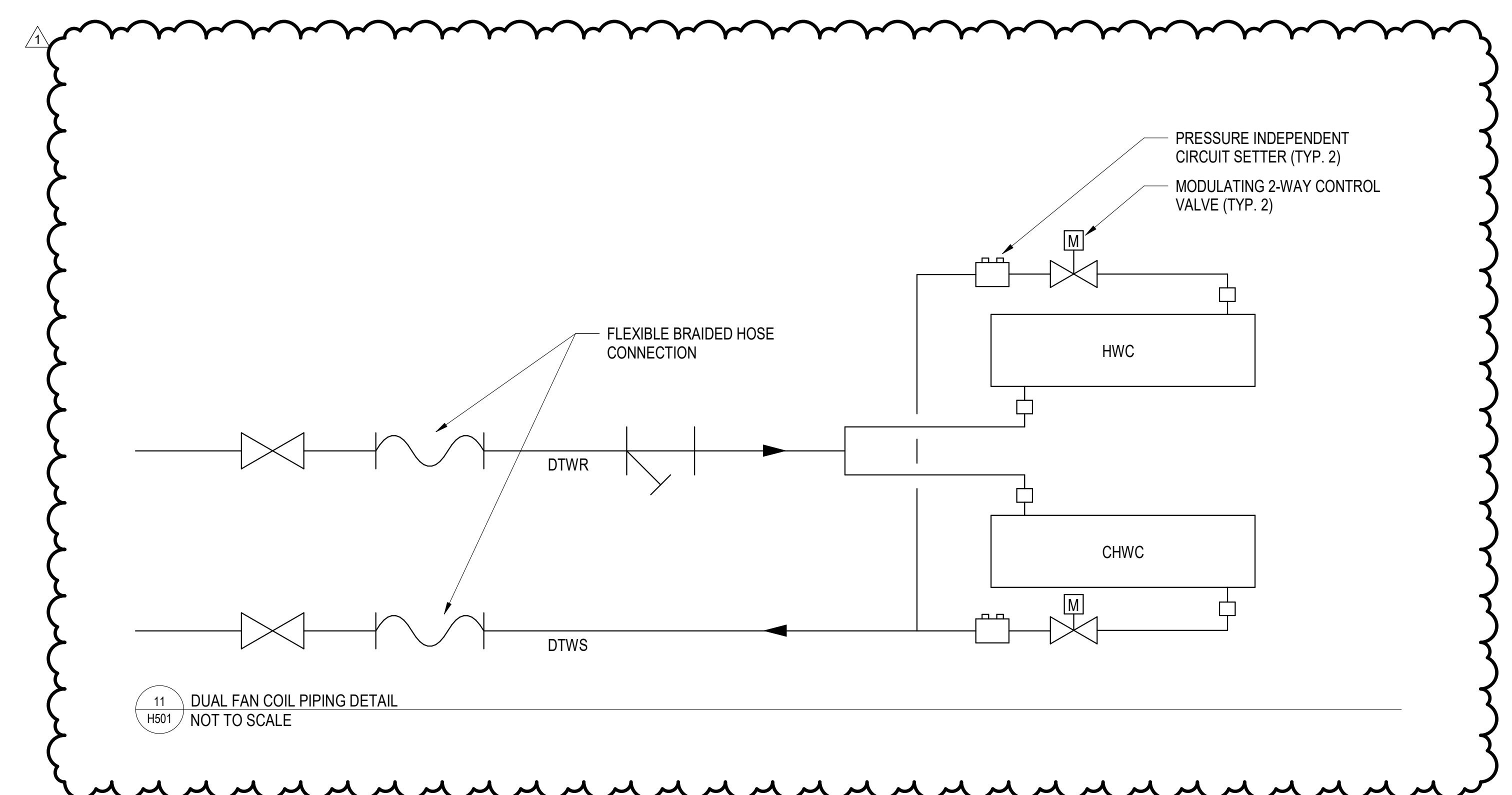
Drawing Title:

SECOND FLOOR
PIPING PLAN
PART B

Sheet Number:

H202B



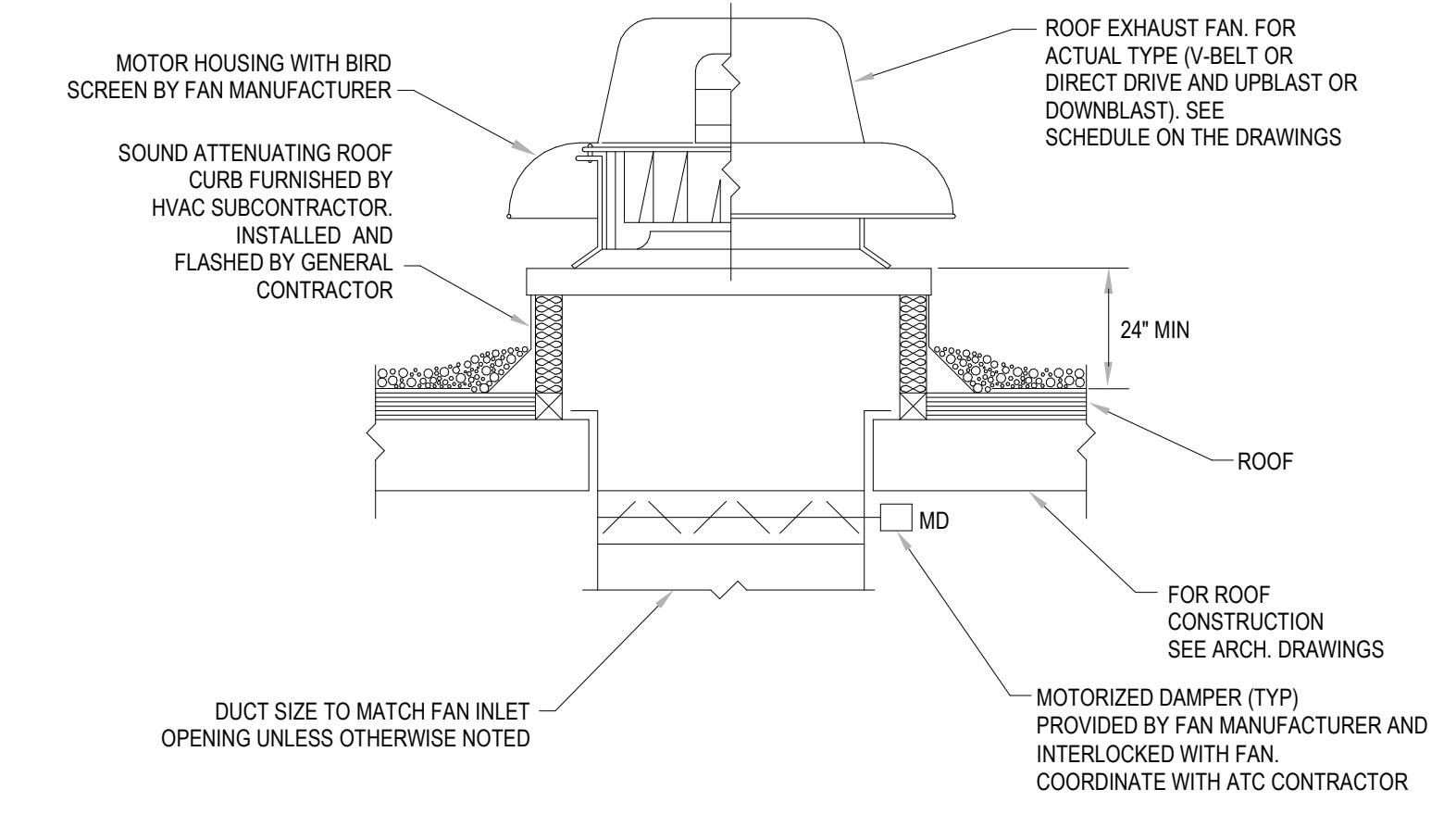
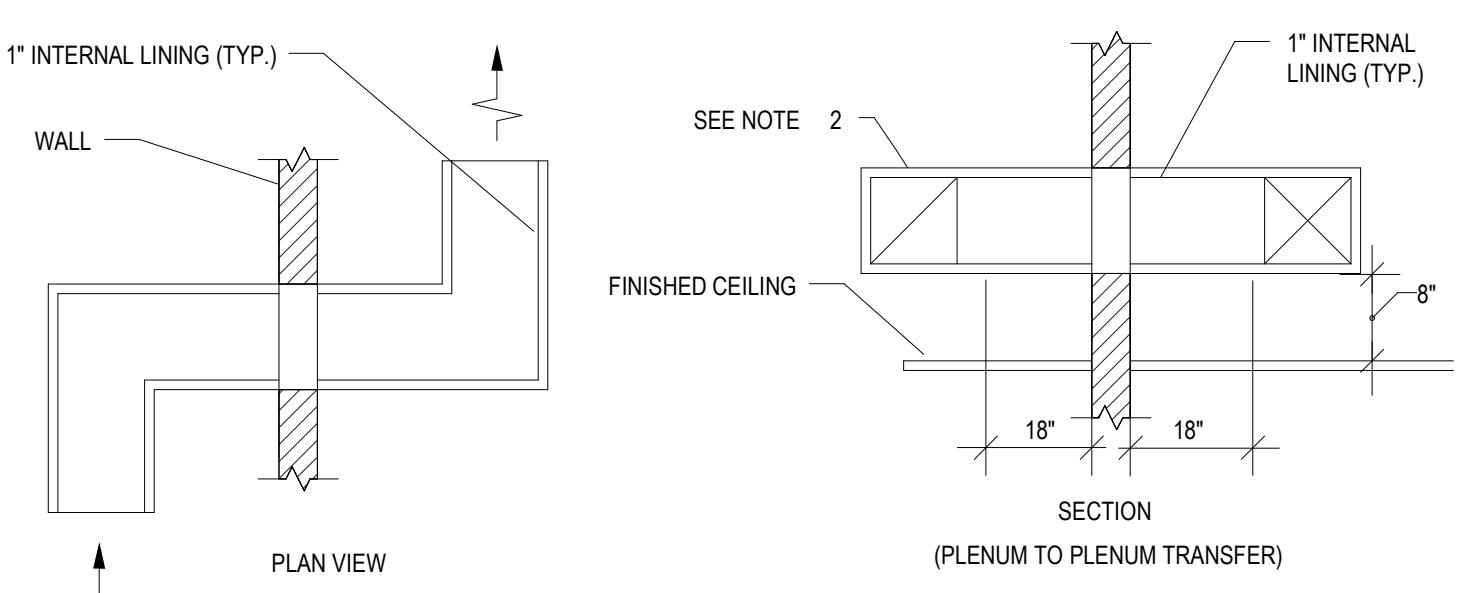
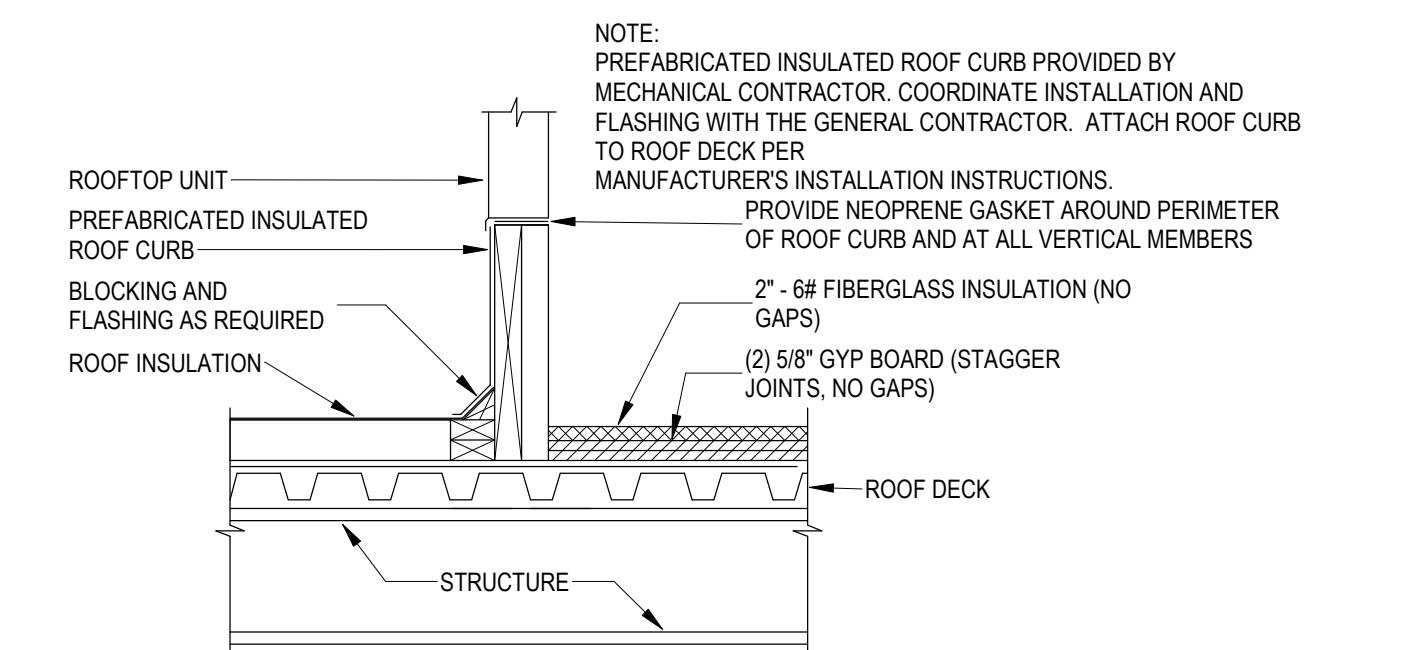


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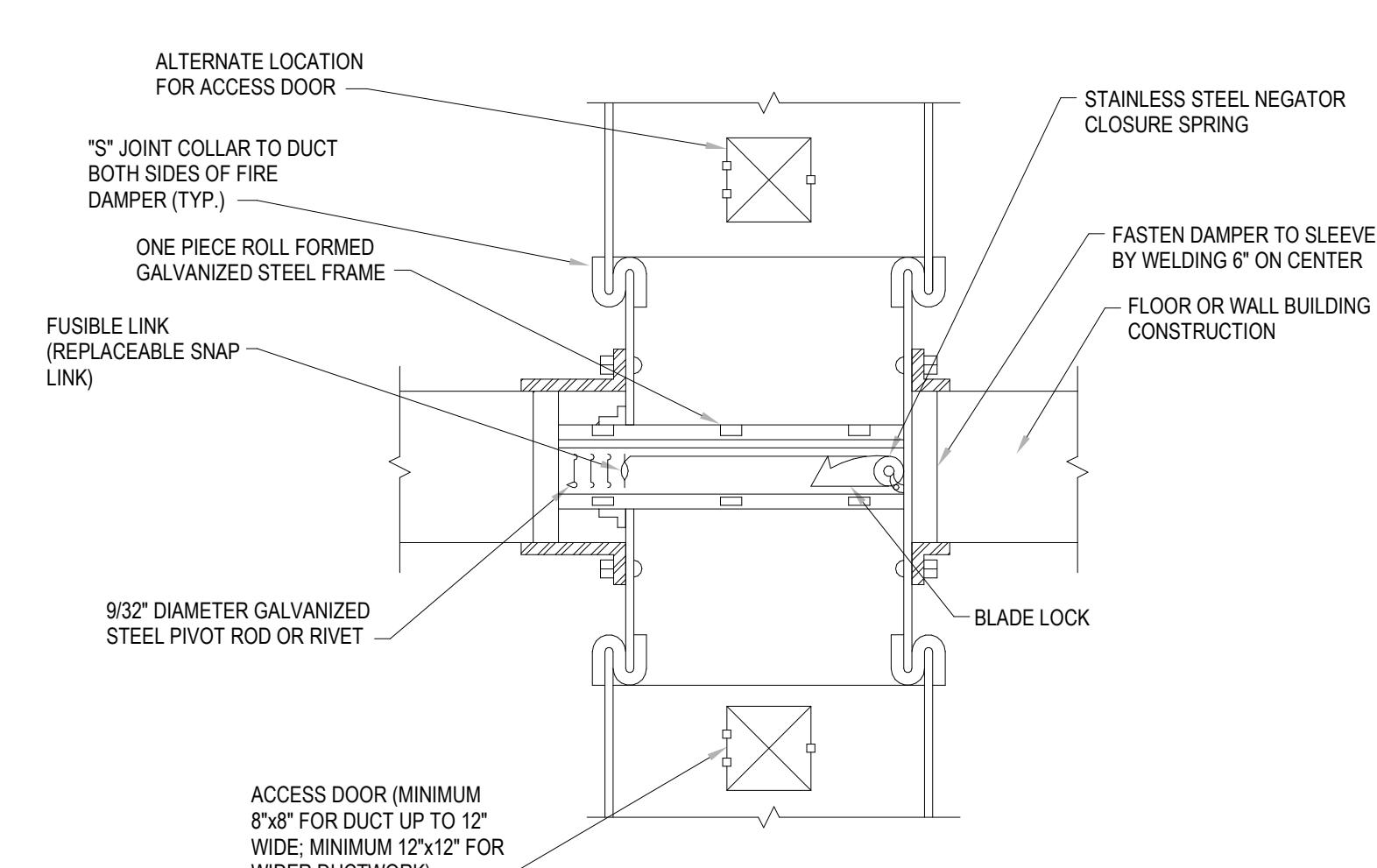
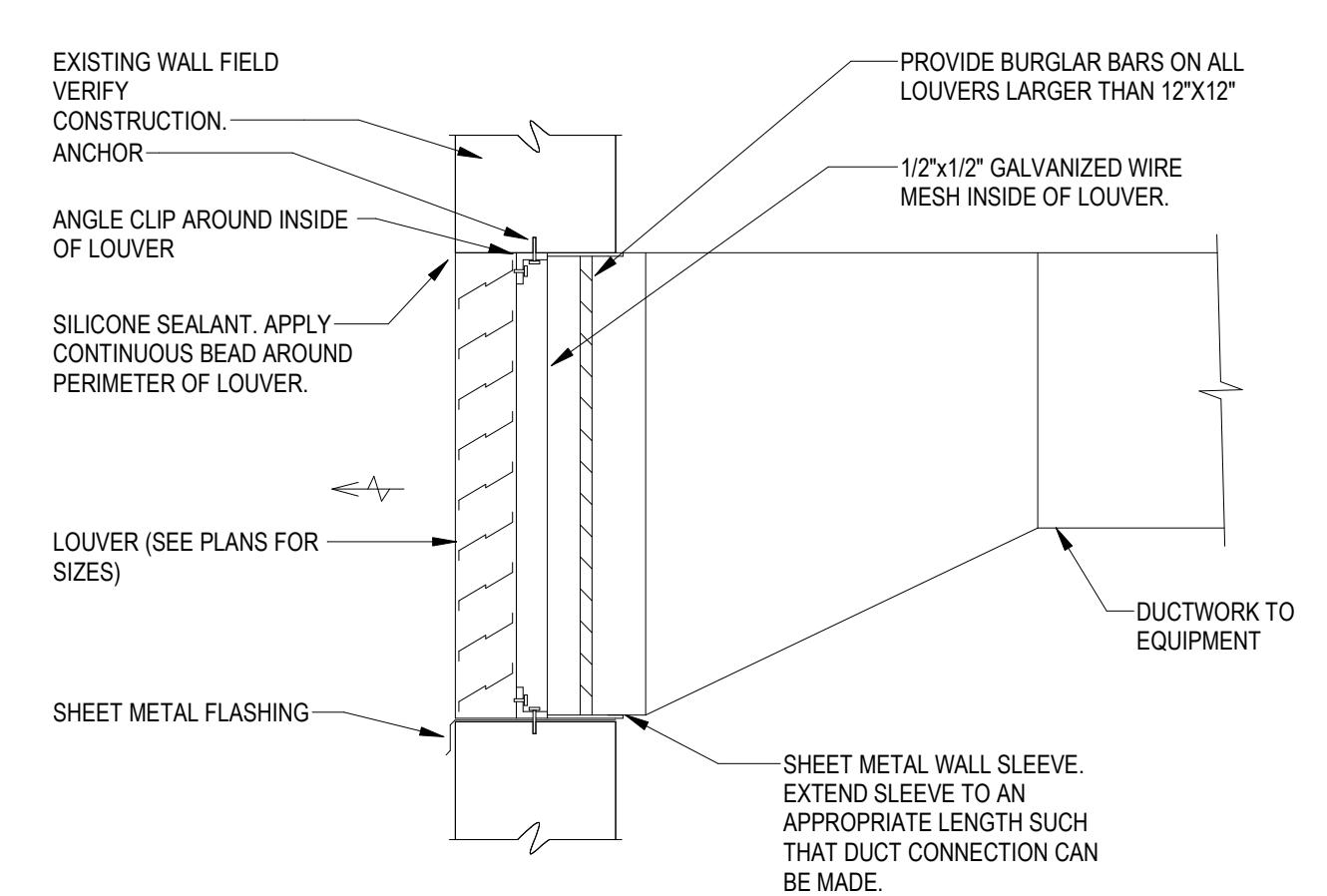
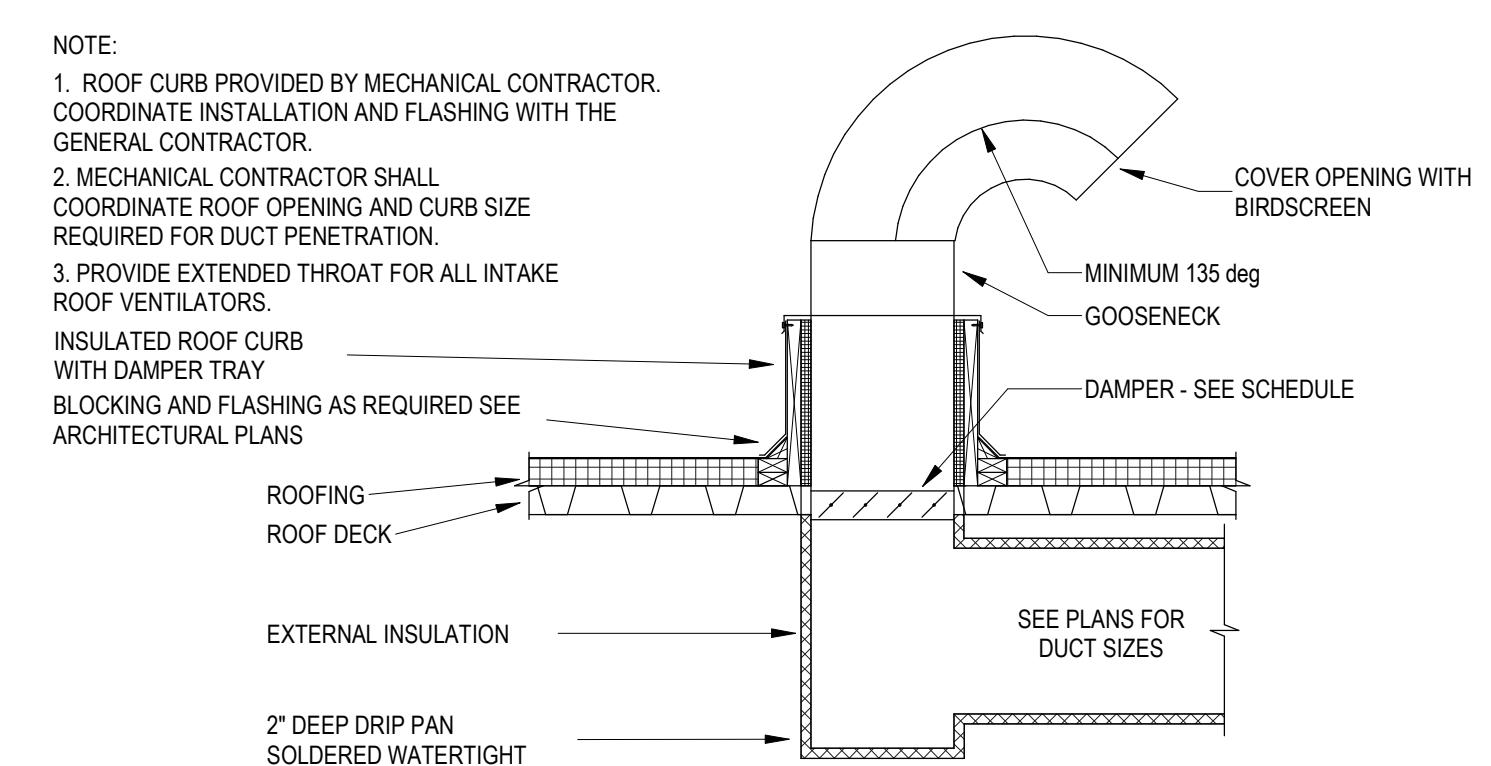
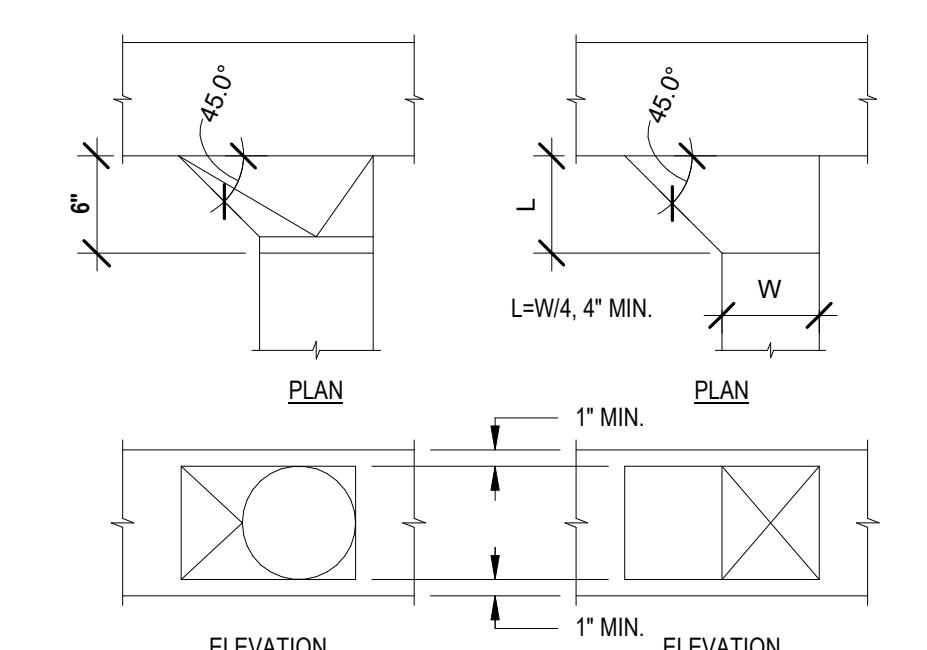
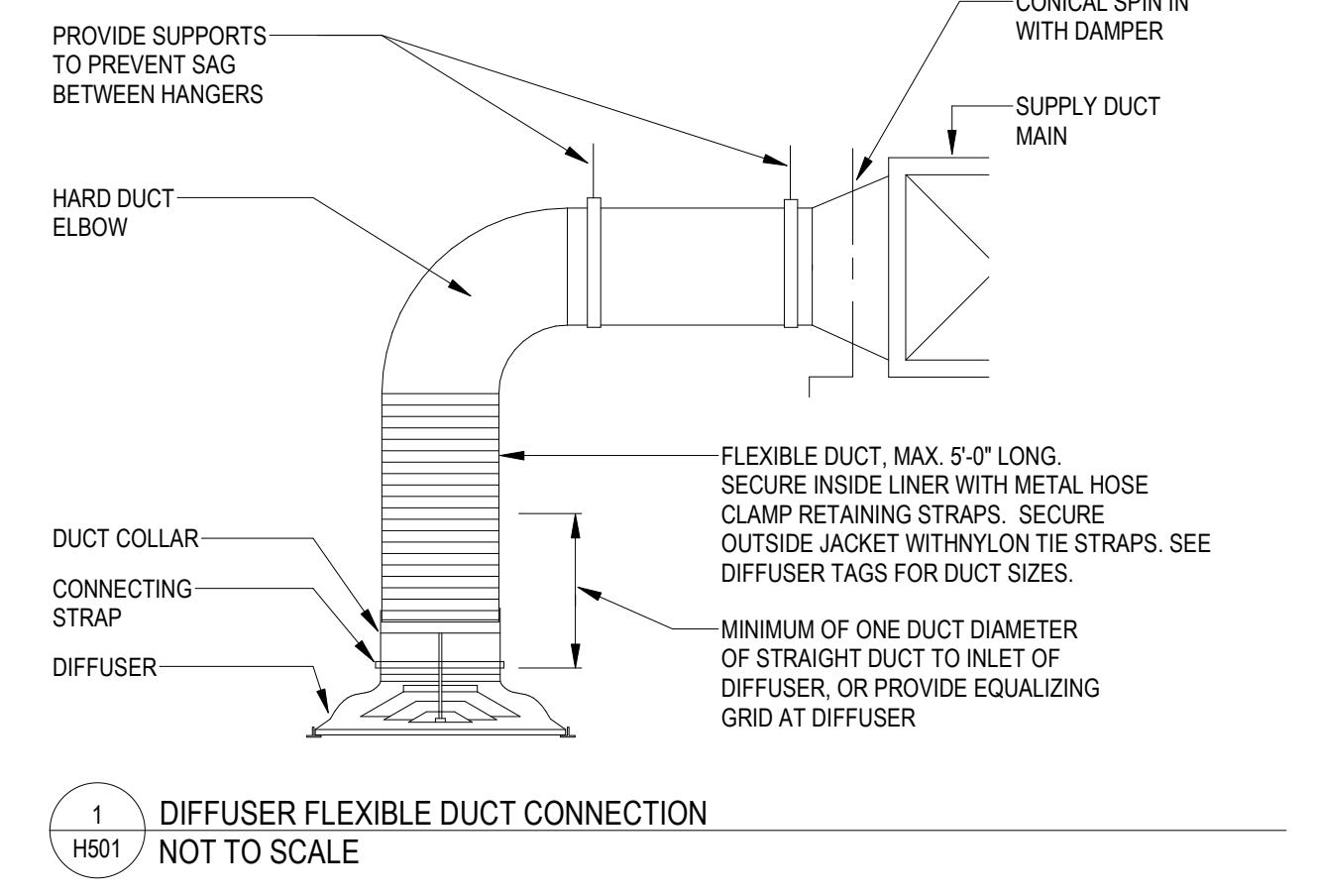
1. SMOKE DETECTORS SHALL BE IN ACCORDANCE WITH NFPA 72 AND ELECTRICAL SPECIFICATIONS. DETECTORS SHALL BE FURNISHED AND WIRED TO THE FIRE ALARM CONTROL PANEL (FACP) BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE HVAC CONTRACTOR, AND WIRED TO ITS RESPECTIVE UNIT BY THE ATC CONTRACTOR.
2. SMOKE DETECTORS SHALL BE EQUALLY SPACED AS DEFINED BY THE ELEVATION PARAMETERS.

"A" DIM	NO. OF SMOKE DETECTORS
36"	2
72"	2
96"	3
120"	4
144"	5

6 DUCT SMOKE DETECTOR DETAIL
 H501 NOT TO SCALE



NOTE: FOR HINGED FAN CURB REQUIREMENTS (WHERE REQUIRED), REFER TO SCHEDULES AND/OR SPECIFICATION.



NOTE: FIRE DAMPER INSTALLATION TO MEET UL REQUIREMENTS.

Revisions:

Rev	Date	Description
1	4/15/2020	ADDENDUM #1

Issued For: ADDENDUM #1

Date: April 15, 2020
 Drawn By: MRC
 Reviewed By: SEH
 Approved By: SEH
 W&S Project No: 219117

Drawing Title: HVAC DETAILS
 Sheet Number:

H501

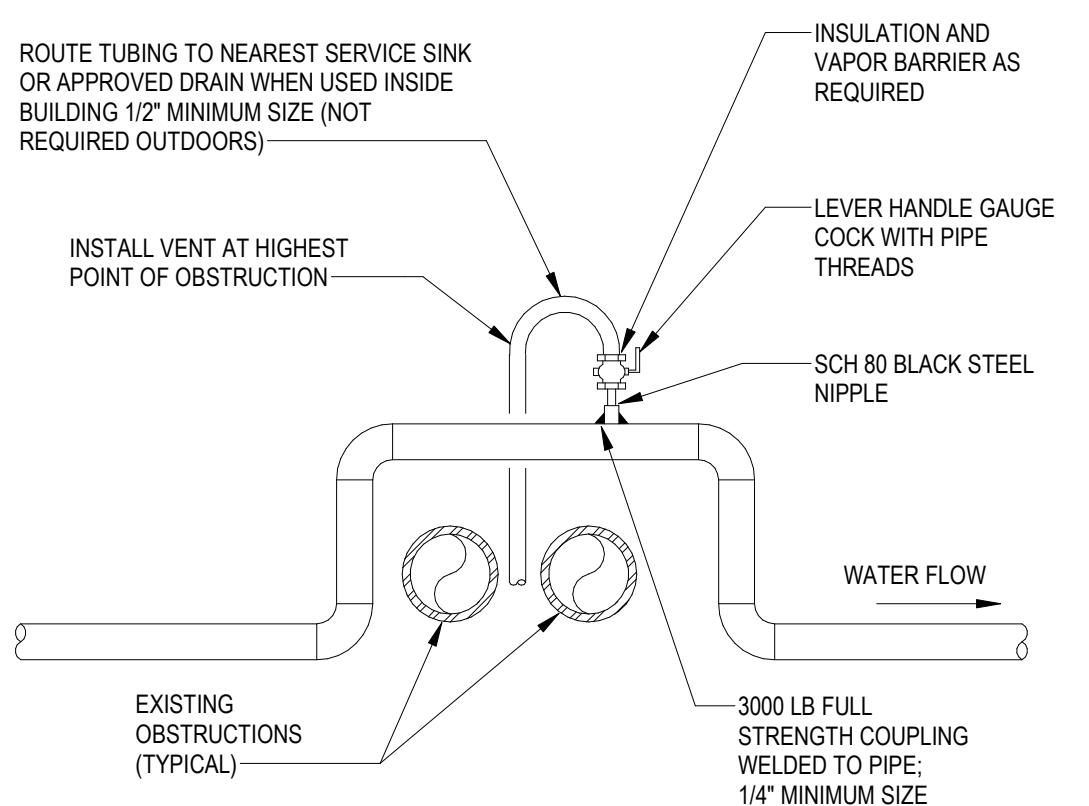


Project:
CONTRACT 2C20-064

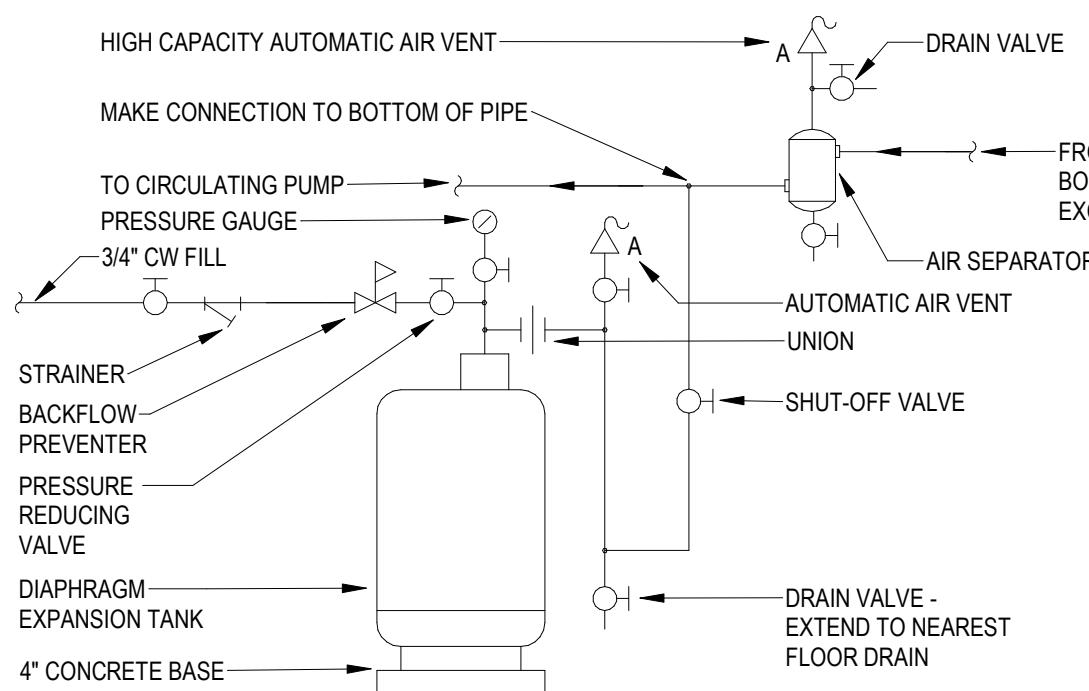
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21 Tuttle Rd.
Bristol, CT 06010

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Weston & Sampson Engineers, Inc.
100 Foxboro Street, Suite 250
Foxborough, MA 02035
(508) 698-3034 (800) SAMPSON
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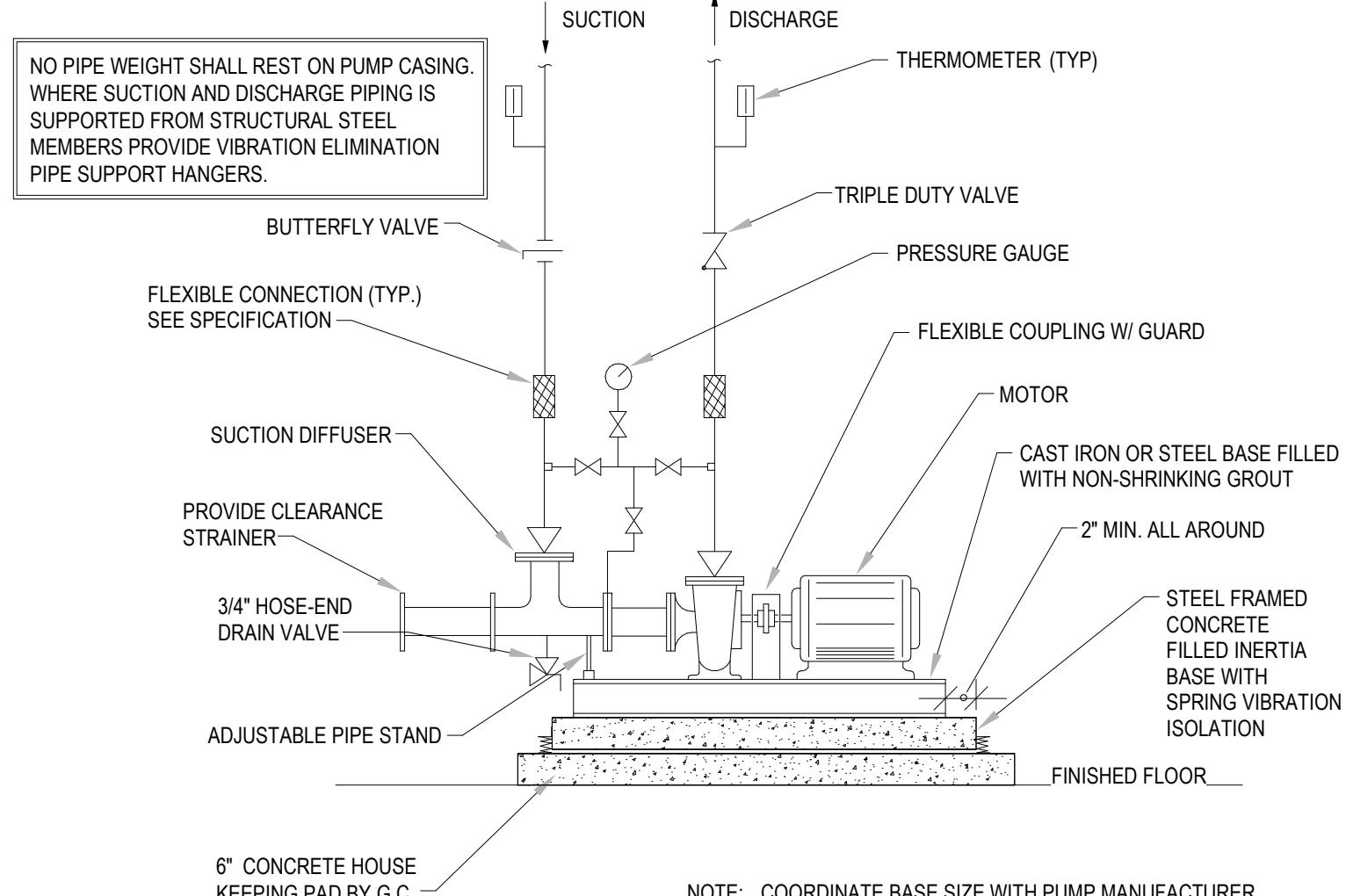
Consultants:
QA+M
architecture
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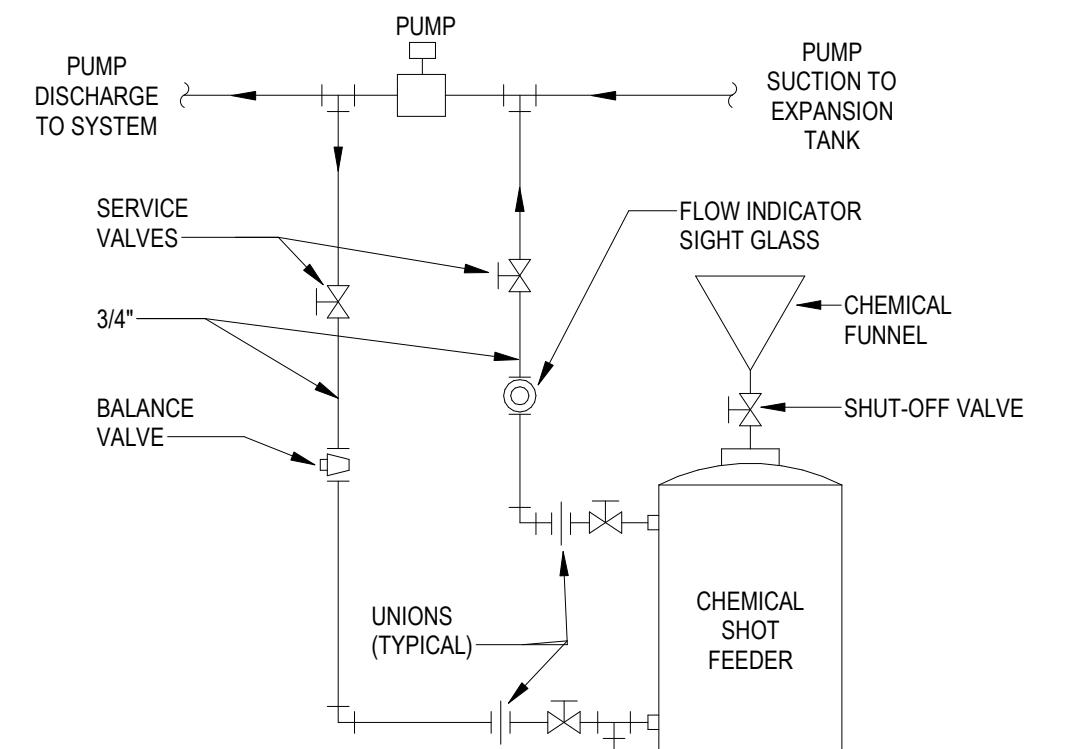
5 HIGH POINT MANUAL AIR VENT
H503 1/8" = 1'-0"



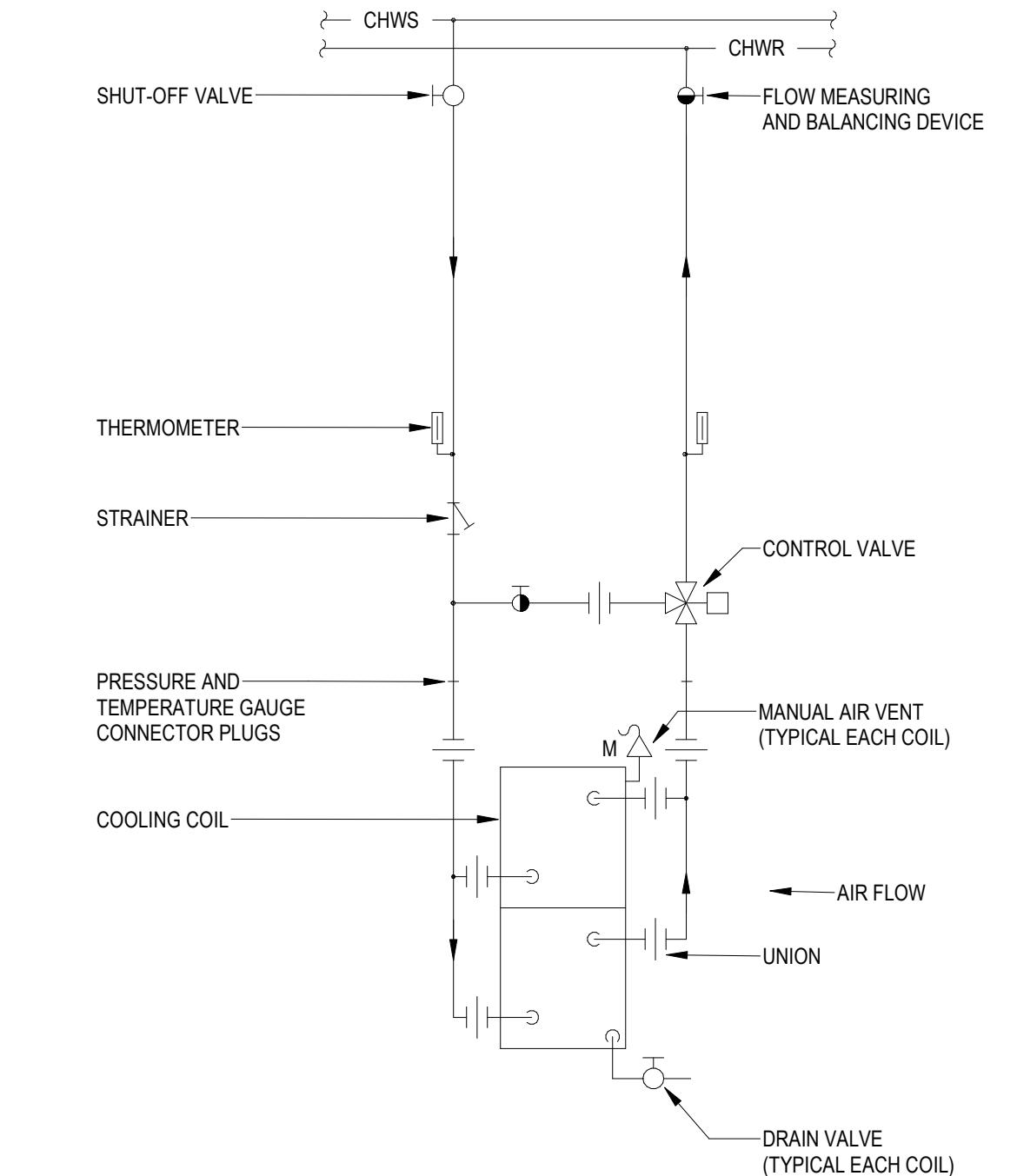
6 EXPANSION TANK PIPING DETAIL
H503 NO SCALE



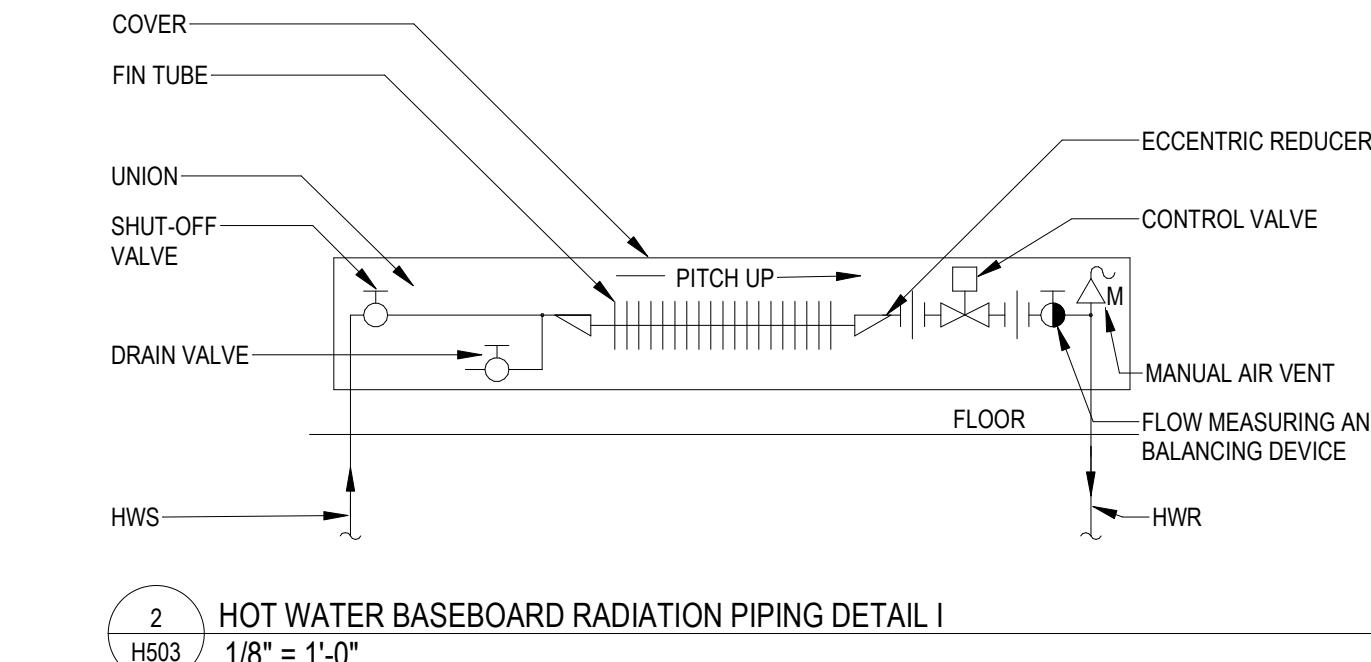
7 END SUCTION PUMP DETAIL
H503 NO SCALE



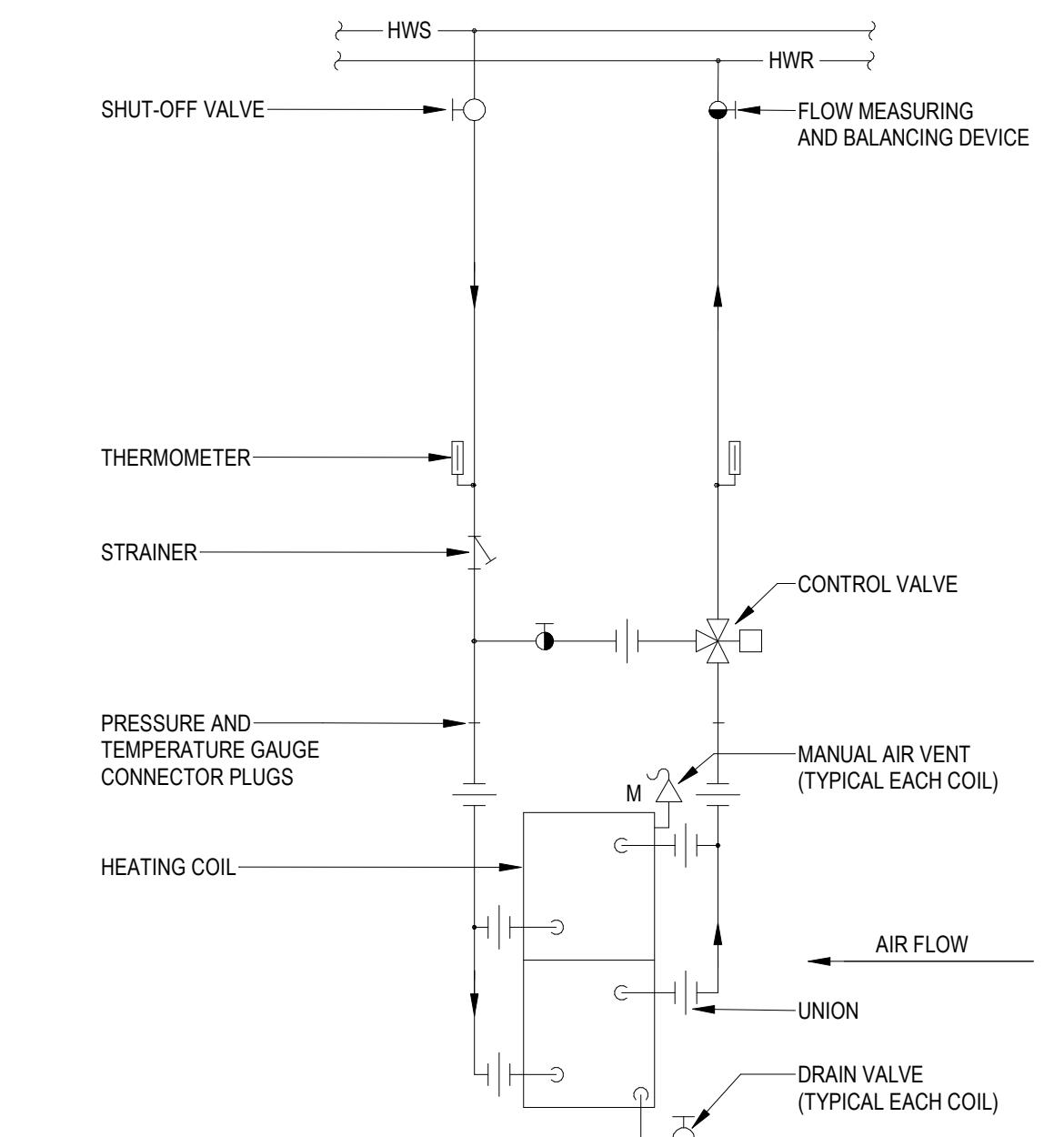
8 CHEMICAL SHOT FEEDER DIAGRAM
H503 1/8" = 1'-0"



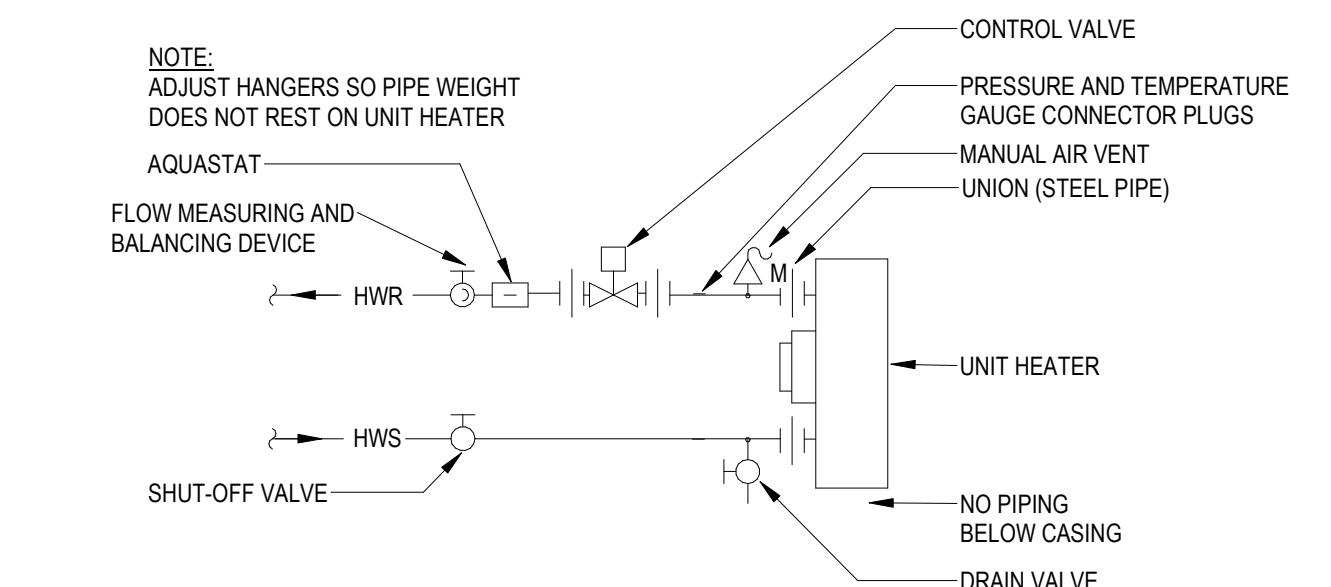
1 CHILLED WATER COIL PIPING
DETAIL W/3-WAY VALVE - MULTIPLE
H503 1/8" = 1'-0"



2 HOT WATER BASEBOARD RADIATION PIPING DETAIL I
H503 1/8" = 1'-0"



3 HOT WATER COIL PIPING DETAIL W/3-WAY VALVE - MULTIPLE
H503 1/8" = 1'-0"



4 HOT WATER UNIT HEATER PIPING DETAIL W/2-WAY VALVE I
H503 1/8" = 1'-0"

Seal:

Revisions:

Rev	Date	Description

Issued For: BID SET

Date: April 2, 2020
Drawn By: MRC
Reviewed By: SEH
Approved By: SEH
W&S Project No: 219117

Drawing Title:

HVAC DETAILS

Sheet Number:

H503

AIR HANDLING UNIT SCHEDULE																																																			
ID	NAME	MANUFACTURER	MODEL NO.	LOCATION	TYPE	ARRANGEMENT	OUTSIDE AIR (DESIGN CFM)			FAN			MOTOR			NOMINAL CAP (TONS)			COOLING COIL			AIRSIDE			HEATING COIL			HEATING PLANT																							
							CFM	PRESS	WHEEL	TYPE	QTY	HP	BHP	RPM	TYPE	QTY	TONS	TOTAL	SENSIBLE	EAT DB (°F)	LAT DB (°F)	LAT WB (°F)	FACE V. (FPM)	PD	FPI	CPM	EFN (°F)	LWT (°F)	PD	TYPE	%	CAP (MBH)	EAT DB (°F)	LWT (°F)	PD	TYPE	%	WEIGHT (lb)	FLA	MCA	MOCP	V	PH	REMARKS							
AHU2	ROOF	JOHNSON CONTROLS, INC.	SXTON XTO	OUTDOOR	DOWNTOWN	700	4500	1000	1.00	2.48	2025	AF	12"	BELT	1	5.00	3.65	1800	127.8	79.6	85.5	67.7	56.1	523	0.55	9	22.4	44	56	12.4	PG	30	207	54.0	75.4	0.16	10	20.8	160	130	9.9	PG	30	2850	14.0	17.5	30.0	3	1 THRU7		
AHU3	MECH MEZ	JOHNSON CONTROLS, INC.	AMI	INDOOR	VERTICAL	2600	9000	2600	0.75	2.00	870	FC	18"	BELT	1	7.50	6.26	870	325.5	247.6	80.9	56.1	55.0	416	0.72	10	53.4	44	56	19.4	PG	30	213	46.0	102.2	0.14	14	16.2	160	130	4.1	PG	30	1880	20.0	25.0	45.0	208	3	1 THRU7	
AHU3A	MECH MEZ	JOHNSON CONTROLS, INC.	AMI	INDOOR	VERTICAL	2600	9000	2600	0.75	2.00	870	FC	18"	BELT	1	7.50	6.26	870	325.5	247.6	80.9	56.1	55.0	416	0.72	10	53.4	44	56	19.4	PG	30	213	46.0	102.2	0.14	14	16.2	160	130	4.1	PG	30	1880	20.0	25.0	45.0	208	3	1 THRU7	
AHU4	MECH MEZ	JOHNSON CONTROLS, INC.	Solution XTI	INDOOR	HORIZONTAL	2600	8000	2600	0.75	3.71	2581	AF	12"	DIRECT	1	10.00	8.00	1800	29.0	346.8	247.9	81.3	67.1	52.5	523	1.36	11	60.9	44	56	17.5	PG	30	1045	43.0	129.7	1.70	0	73.3	160	130	6.9	PG	30	2510	27.4	34.3	60.0	208	3	1 THRU7

NOTES:
 1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
 2. PROVIDE HIGH EFFICIENCY HEATING AND VENTILATION UNIT WITH FACTORY INSTALLED HOT WATER COIL, DUAL ENTHALPY ECONOMIZER, MERV 8 FILTER. PROVIDE WITH INSULATED PIPE CABINET. CABINET SHALL INCLUDE FULL PERIMETER BASERAILS FOR SHIPPING AND RIGGING.
 3. PROVIDE GALVANIZED STEEL FULLY INSULATED CABINET. PROVIDE HINGED ACCESS DOORS WITH SINGLE LEVER LATCH MECHANISM. EXTERIOR SHALL BE A WEATHER RESISTANT BAKED ENAMEL FINISH. PROVIDE WITH FACTORY INSULATED ROOF CURB, INCLUDING THE PIPE CABINET, FOR PITCHED ROOF.
 4. UNITS SHALL BE SINGLE POINT POWER WITH FACTORY DISCONNECT.
 5. PROVIDE FLEXIBLE CONNECTIONS AT SUPPLY AND RETURN OPENINGS.
 6. PROVIDE SPARE PARTS AND ACCESSORIES.
 7. PROVIDE WITH 1 YEAR COMPLETE UNIT WARRANTY (PARTS AND LABOR) AND 5 YEAR EXTENDED PARTS WARRANTY.
 8. PROVIDE WITH 1 YEAR COMPLETE UNIT WARRANTY (PARTS AND LABOR) AND 5 YEAR EXTENDED PARTS WARRANTY.
 9. PROVIDE WITH 1 YEAR COMPLETE UNIT WARRANTY (PARTS AND LABOR) AND 5 YEAR EXTENDED PARTS WARRANTY.
 10. PROVIDE WITH 1 YEAR COMPLETE UNIT WARRANTY (PARTS AND LABOR) AND 5 YEAR EXTENDED PARTS WARRANTY.
 11. PROVIDE SINGLE COIL FOR CHILLED WATER AND HOT WATER. SCHEDULE INDICATES REQUIRED PERFORMANCE DURING EACH MODE OF OPERATION.

ENERGY RECOVERY VENTILATOR (100% OA)																																															
SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	SUPPLY FAN			EXHAUST FAN			ENERGY RECOVERY WHEEL (SUMMER)			ENERGY RECOVERY WHEEL (WINTER)			CHILLED WATER COIL			HOT WATER COIL			FILTERS			ELECTRICAL			WEIGHT (LBS)	REMARKS																		
				TYPE	DRIVE	CFM	E.S.P.	TOT. S.P.	FAN RPM	BHP	MOTOR HP	TYPE	DRIVE	CFM	E.S.P.	TOT. S.P.	FAN RPM	BHP	MOTOR HP	BASE EFF. %	MBH COOLING	EAT DB (°F)	LAT DB (°F)	LAT WB (°F)	BASE EFF. %	MBH HEATING	ROWS	EAT DB (°F)	LAT DB (°F)	EWT	LWT	GPM	WPD FT	PD	TYPE	%	APD IN	OA EFF.	EXH. EFF.	V	P	FLA	MCA	MOCP			
ERV-1	JOHNSON CONTROLS	XTO-39x54	DOAS	AF	BELT	3500	1.50	3.73	3341	3.21	50.0	88.0	73.0	79.6	67.1	61	211	127	7.0	700	2.90	46.89	37.88	62.64	293	8	79.6	67.1	54.3	50.0	42.0	53.9	0.66	8	46.89	141.6	20.5	1.5	0.3	MERV 8	208	3	14.0	17.5	30.0	5634	1 THRU 11
ERV-2	JOHNSON CONTROLS	XTO-42x63	DOAS	AF	BELT	4200	1.50	4.01	2549	4.07	5.0	88.0	73.0	78.5	66.38	69	265	157	7.00	2.90	51.05	41.02	69.35	366	10	78.5	66.38	53.1	52.9	42.0	54.0	0.46	10	51.05	144.64	25.6	0.7	0.32	MERV 8	208	3	21.1	26.4	45.0	6359	1 THRU 11	
ERV-3	JOHNSON CONTROLS	XTO-39x54	DOAS	AF	BELT	3500	1.00	3.23	3370	3.22	5.0	88.0	73.0	79.6	67.1	61	211	127</td																													



GLYCOL MAKE-UP UNIT SCHEDULE												
ID	LOCATION	MANUFACTURER	MODEL NO.	PUMP		DRY WEIGHT (LB)	FLA	MOPC	V	PH	REMARKS	
				FLOW (GPM)	UNIT VOL (GAL)							
GF-1	BASEMENT	AXION	SF100-L	1.0	55.0	35	0.7	15	120	1	1 THRU 4	

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE FACTORY PRESSURE REDUCING VALVE, PRESSURE GAUGE, SYSTEM CONNECTION HOSE, UNION, AND CHECK VALVE.
3. PROVIDE FACTORY SECOND PRESSURE REDUCING VALVE, PRESSURE GAUGE, SYSTEM CONNECTION HOSE, UNION, AND CHECK VALVE TO ALLOW FOR INDEPENDENT PRESSURE SUPPLY TO A SECOND SYSTEM.
4. PROVIDE FACTORY PUMP WITH THERMAL CUT-OUT, INTEGRAL PRESSURE SWITCH, AND CORD AND PLUG.

AIR SEPARATOR SCHEDULE												
ID	LOCATION	MANUFACTURER	MODEL NO.	FLOW (GPM)	PIPE SIZE	UNIT DIMENSIONS			REMARKS			
						HEIGHT (IN)	DIA (IN)	DRY WEIGHT (LB)				
AS-1	BASEMENT	Bell & Gossett	RL-6F	350	6	44	26	280	1 THRU 3			
AS-2	BASEMENT	Bell & Gossett	RL-4F	390	6	44	26	280	1 THRU 3			

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE BALL TYPE BLOWDOWN VALVE, HOSE CONNECTION WITH CAP AND CHAIN.
3. PROVIDE HIGH CAPACITY AIR VENT WITH 1/2" COPPER TUBING FROM THE AIR VENT TO THE NEAREST DRAIN.

EXPANSION TANK SCHEDULE												
ID	LOCATION	MANUFACTURER	MODEL NO.	TYPE	VOLUME	UNIT	DIMENSIONS	PRESS RELIEF (PSI)	DRY WEIGHT (LB)	FULL WEIGHT (LB)	REMARKS	
ET-1	BASEMENT	TACO	C480-125	BLADDER	23.0	29"	20"	85	120	312	1 THRU 3	
ET-2	BASEMENT	BELL & GOSSETT	B-50LA	BLADDER	106.0	65"	24"	85	309	1184	1 THRU 3	

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. TANK SHALL BE ASME RATED.
3. TANK SHALL BE DIAPHRAGM TYPE.

CABINET UNIT HEATER (HOT WATER)													
SYMBOL	MANUFACTURER	MODEL NO.	TYPE	WATER SIDE			AIR SIDE			MOTOR			REMARKS
				CP	MBW	GPM	EVAP	WT	GLYCOL	% MAX. P.H.	HP	OLTS	
CUH-1	STERLING	RC-1200-09	CEILING RECESSED	KITCHEN 112	860	32.2	2.2	160	130	PG	30	0.65	1/10, 1/15
CUH-2	STERLING	RC-1200-09	CEILING RECESSED	KITCHEN 112	860	33.2	2.2	160	130	PG	30	0.55	1/10, 1/15
CUH-3	STERLING	W-1070-02	WALL MOUNT	DRY STORAGE 113	230	10	0.66	160	130	PG	30	0.05	1/15
CUH-4	STERLING	W-1070-02	WALL MOUNT	LOCKER ROOM 115	230	10	0.66	160	130	PG	30	0.05	1/15
CUH-5	STERLING	W-1070-12	WALL MOUNT	CORRIDOR 119	1230	46.1	3.0	160	130	PG	30	1.02	1/10, 1/15
CUH-6	STERLING	W-1070-12	WALL MOUNT	STAIR 165	1230	46.3	3.0	160	130	PG	30	1.02	1/10, 1/15
CUH-7	STERLING	W-1070-12	WALL MOUNT	STAIR 231	1230	46.1	3.0	160	130	PG	30	1.02	1/10, 1/15
CUH-8	STERLING	W-1070-12	WALL MOUNT	STAIR 231	1230	46.1	3.0	160	130	PG	30	1.02	1/10, 1/15

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE STAMPED LOUVERS, 18 GAUGE CARBON, 16 GAUGE FRONT PANEL. ALL PAINTED SURFACES SHALL BE POWDER COATED. ALL UNPAINTED SURFACES SHALL BE GALVANIZED. PROVIDE WITH HINGED FRONT PANEL AND SAFETY CHAIN.
3. PROVIDE THERMISTOR PROBE WITH DIAL ON MOTOR AND FACTORY MOUNTED TOGGLE TYPE DISCONNECT SWITCH.
4. PROVIDE WITH ECM TYPE MOTOR BUILT FOR CONTINUOUS USE.
5. PROVIDE WITH 1 YEAR COMPLETE UNIT WARRANTY (PARTS AND LABOR).

PUMPS																	
SYMBOL	MANUFACTURER	MODEL/SERIES	SERVES	LOCATION	GPM	HEAD FT.	TYPE	IMP. DIA. (IN)	NPSHR (FT)	BHP	MOTOR HP	PUMP SPEED (RPM)	PUMP EFF (%)	OPERATING WEIGHT (LBS)	V	PH	REMARKS
P-1	BELL & GOSSETT	e-1510	HW	BASEMENT	351	35	END SUCION	9.875	5.24	3.85	5.0	1,125	79.3	435	208	3	1 THRU 4
P-2	BELL & GOSSETT	e-1510	HC	BASEMENT	390	46	END SUCION	11	5.5	5.9	7.5	1,139	79.2	560	208	3	1 THRU 4
P-3	BELL & GOSSETT	e-1510	CHW	BASEMENT	390	46	END SUCION	11	5.5	5.9	7.5	1,139	79.2	560	208	3	1 THRU 4

NOTES:
1. REFER TO SPECIFICATIONS, DETAILS, AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE PREMIUM EFFICIENCY MOTOR, CAST BRONZE IMPELLER, AND STEEL SHAFT.
3. PROVIDE NEOPRENE TYPE VIBRATION ISOLATION.
4. PROVIDE PREMIUM EFFICIENCY VFD COMPATIBLE MOTOR WITH SHAFT GROUNDING RINGS. PROVIDE FACTORY VFD.
5. PROVIDE WITH 1 YEAR COMPLETE UNIT WARRANTY (PARTS AND LABOR).

ADD ALTERNATE #1

EXHAUST FAN SCHEDULE													
SYMBOL	MANUFACTURER	MODEL	TYPE	SERVICE	CFM	S.P. (IN.)	FAN RPM	BHP	HP	FLA	V	PH	REMARKS
EF-8	GREENHECK	G-183-VG	DIRECT	GYM									

CONTROL POINT DESCRIPTOR LEGEND	
	ATC CONTRACTOR PROVIDED DDC POINT AND HARDWARE
	CONTROL DEVICE FURNISHED BY ELECTRICAL OR PLUMBING CONTRACTOR BUT INTERFACED TO DDC SYSTEM BY ATC CONTRACTOR (ELEC SHOWN)
	ATC CONTRACTOR INTERFACE TO EQUIPMENT MANUFACTURERS HARDWARE
	ATC CONTRACTOR PROVIDED LOCAL CONTROL POINT

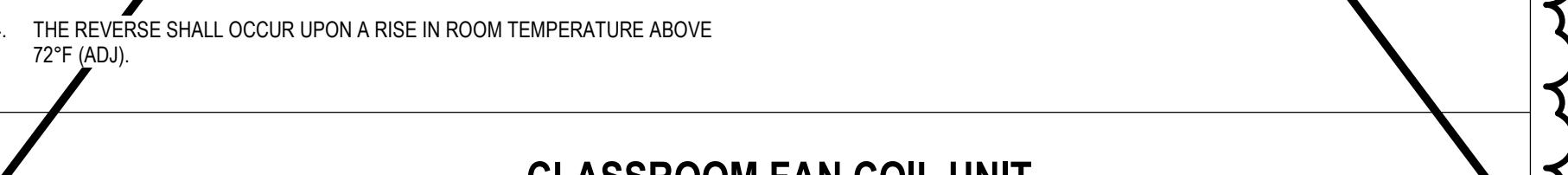
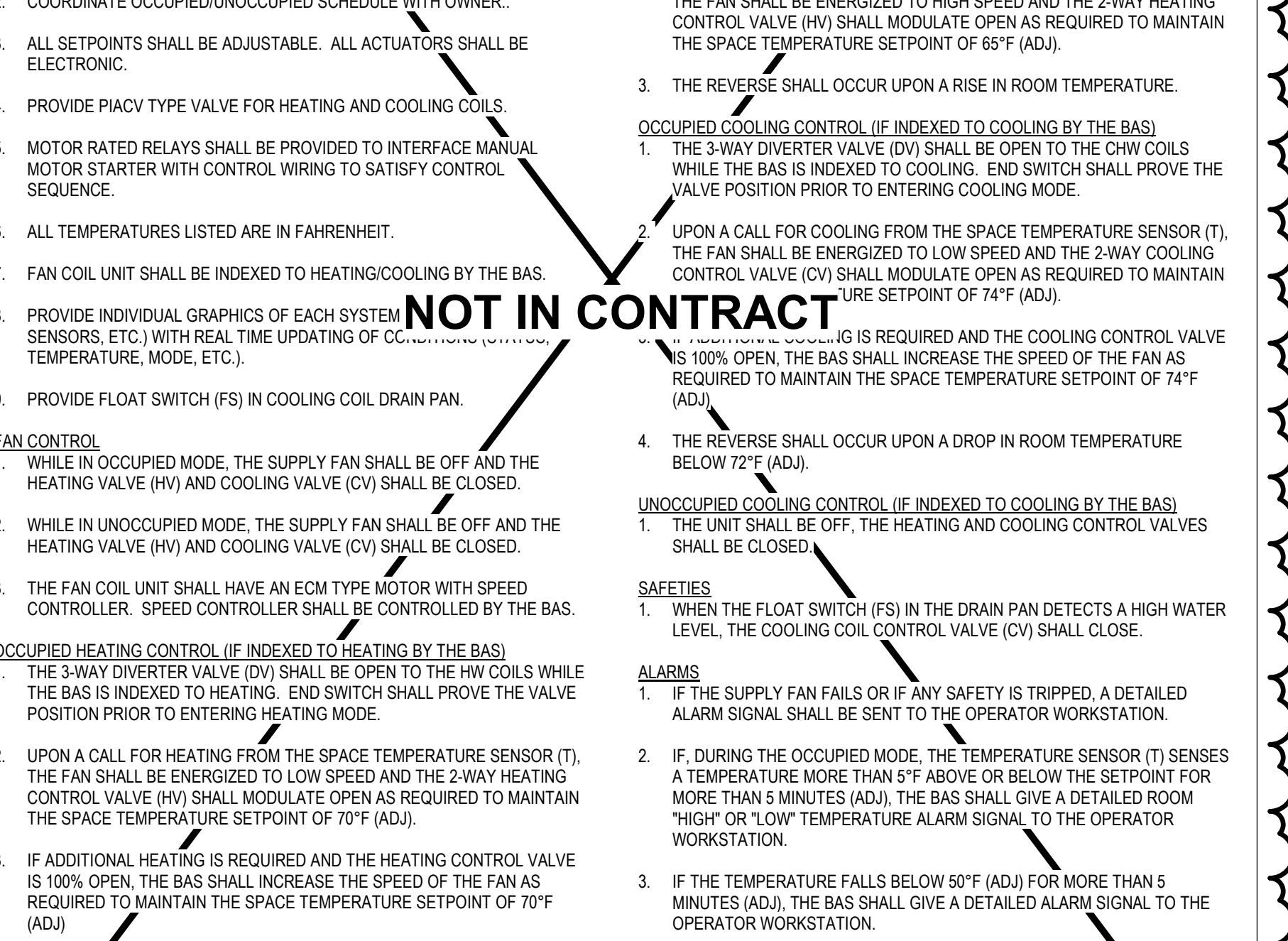
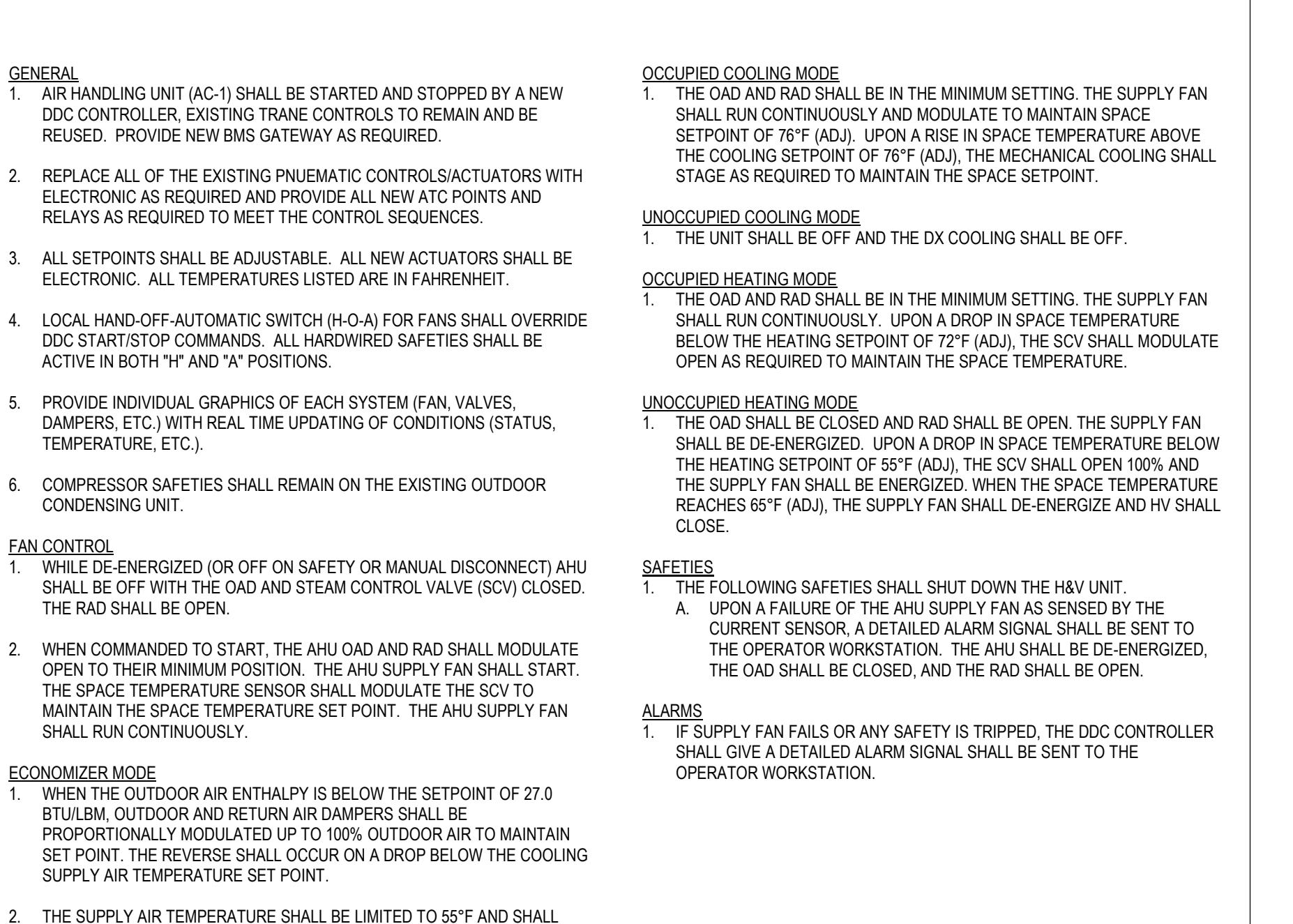
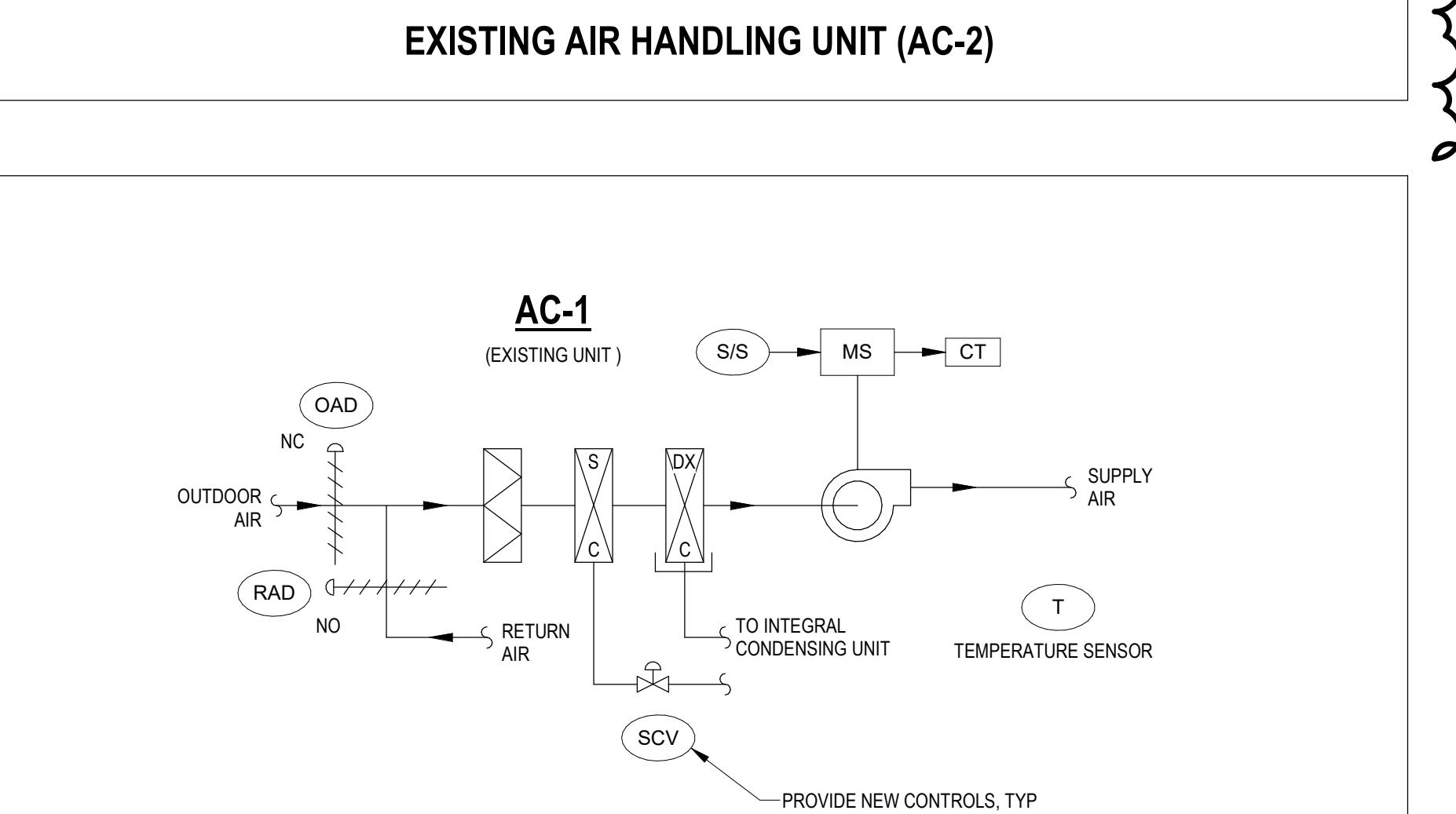
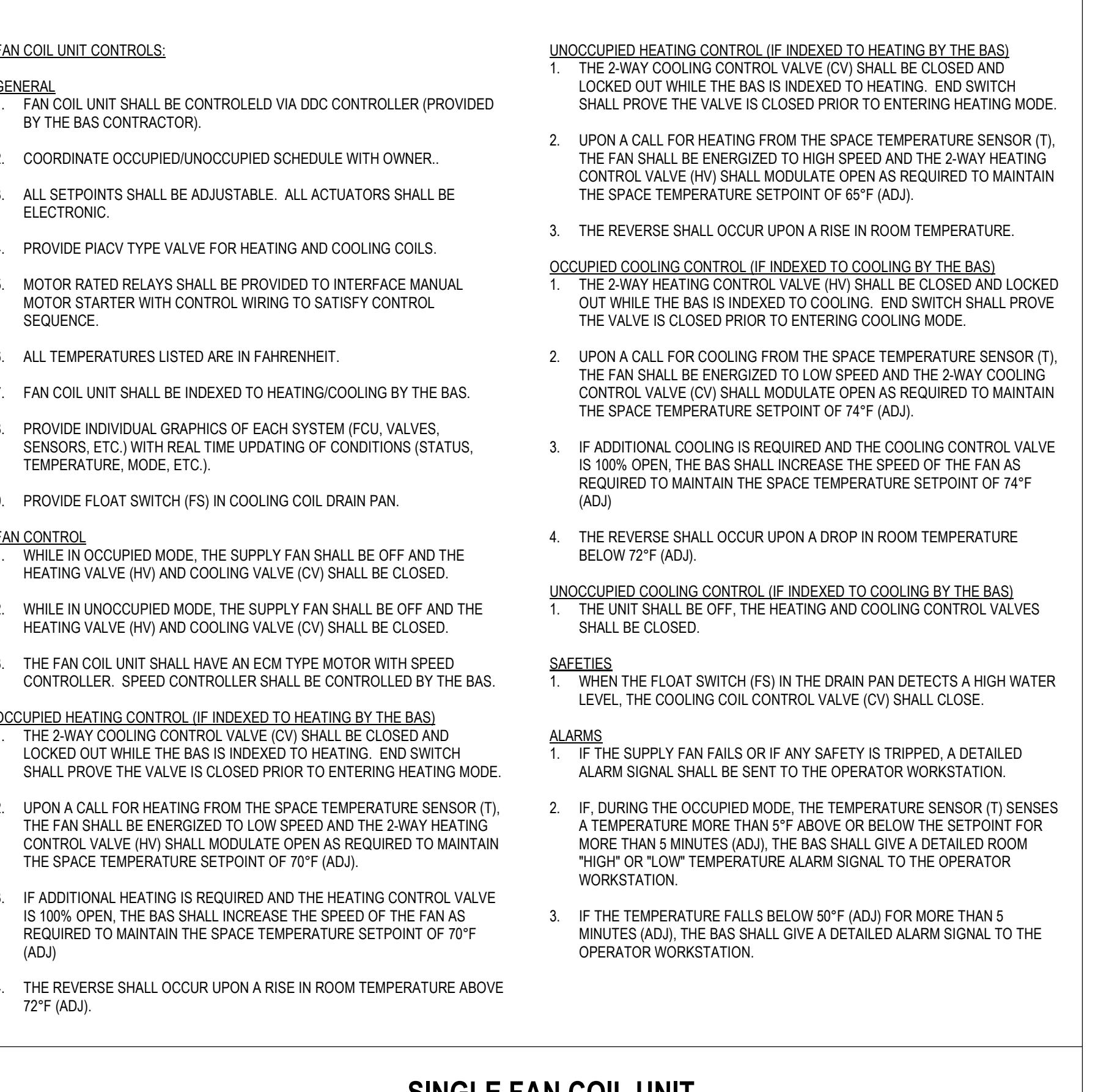
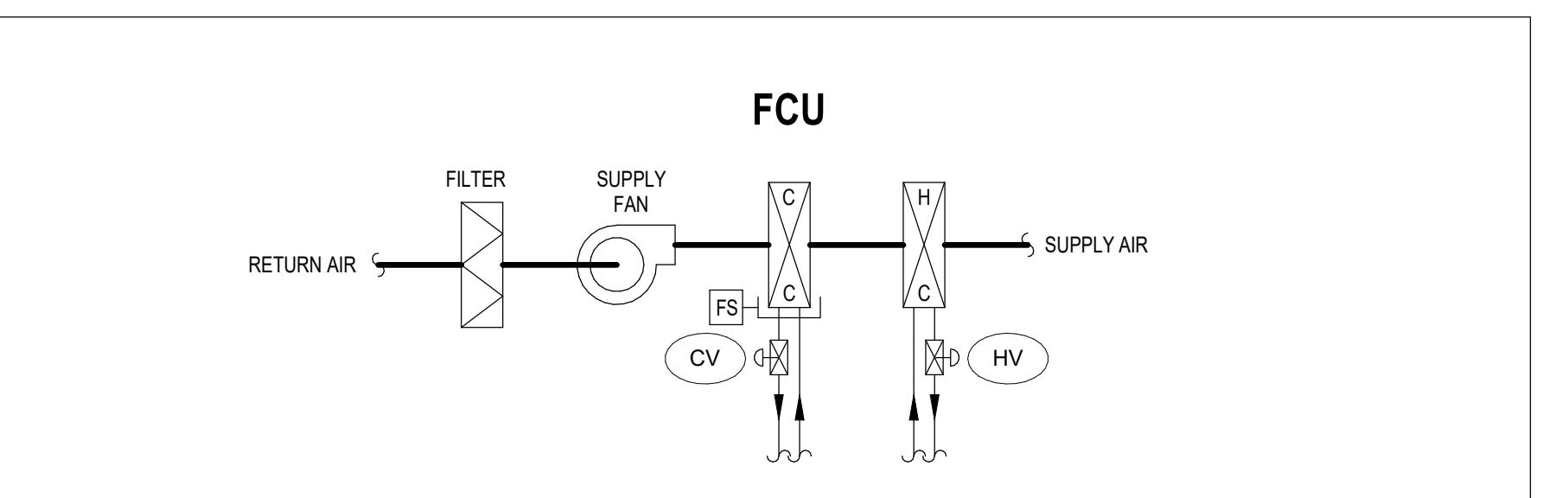
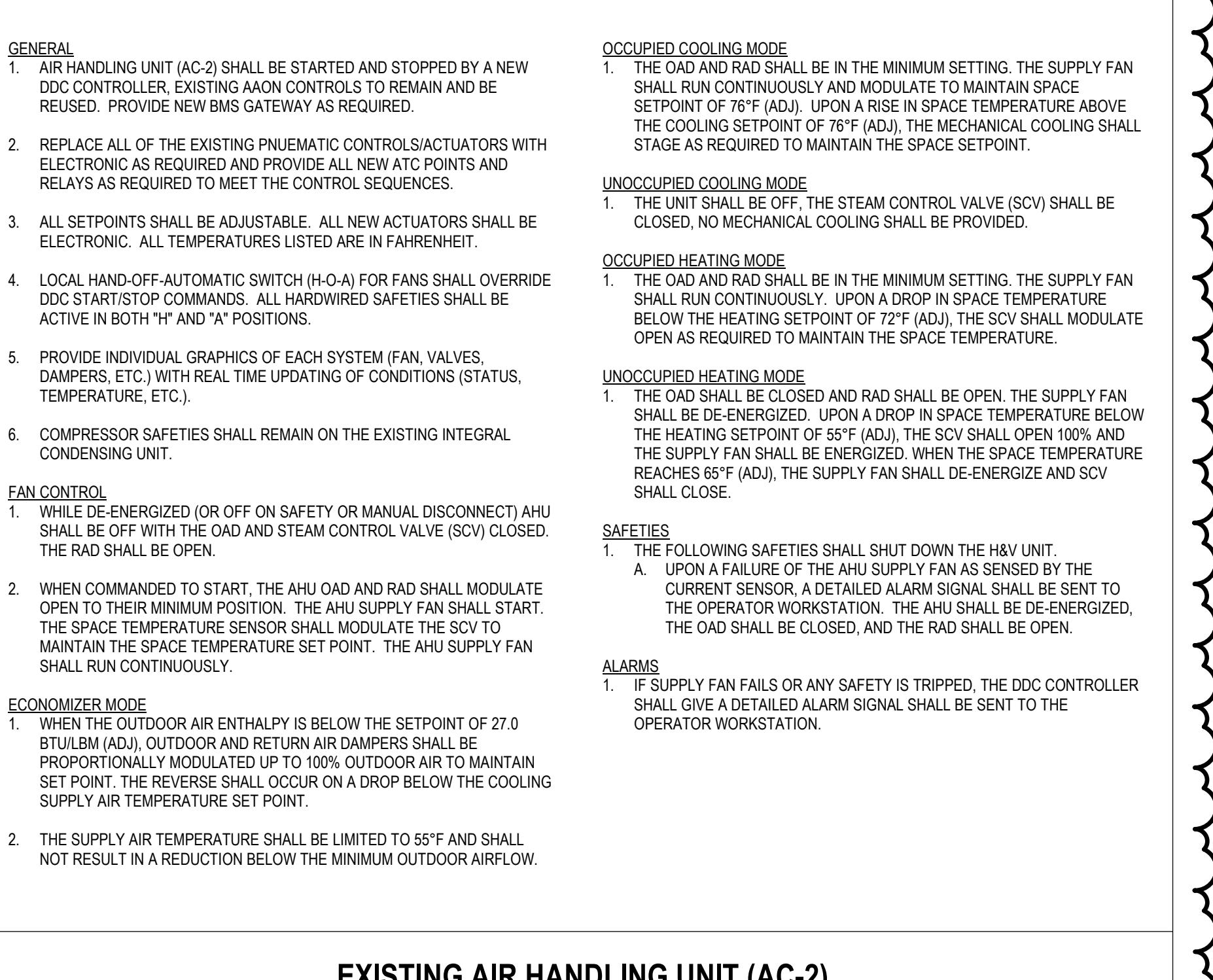
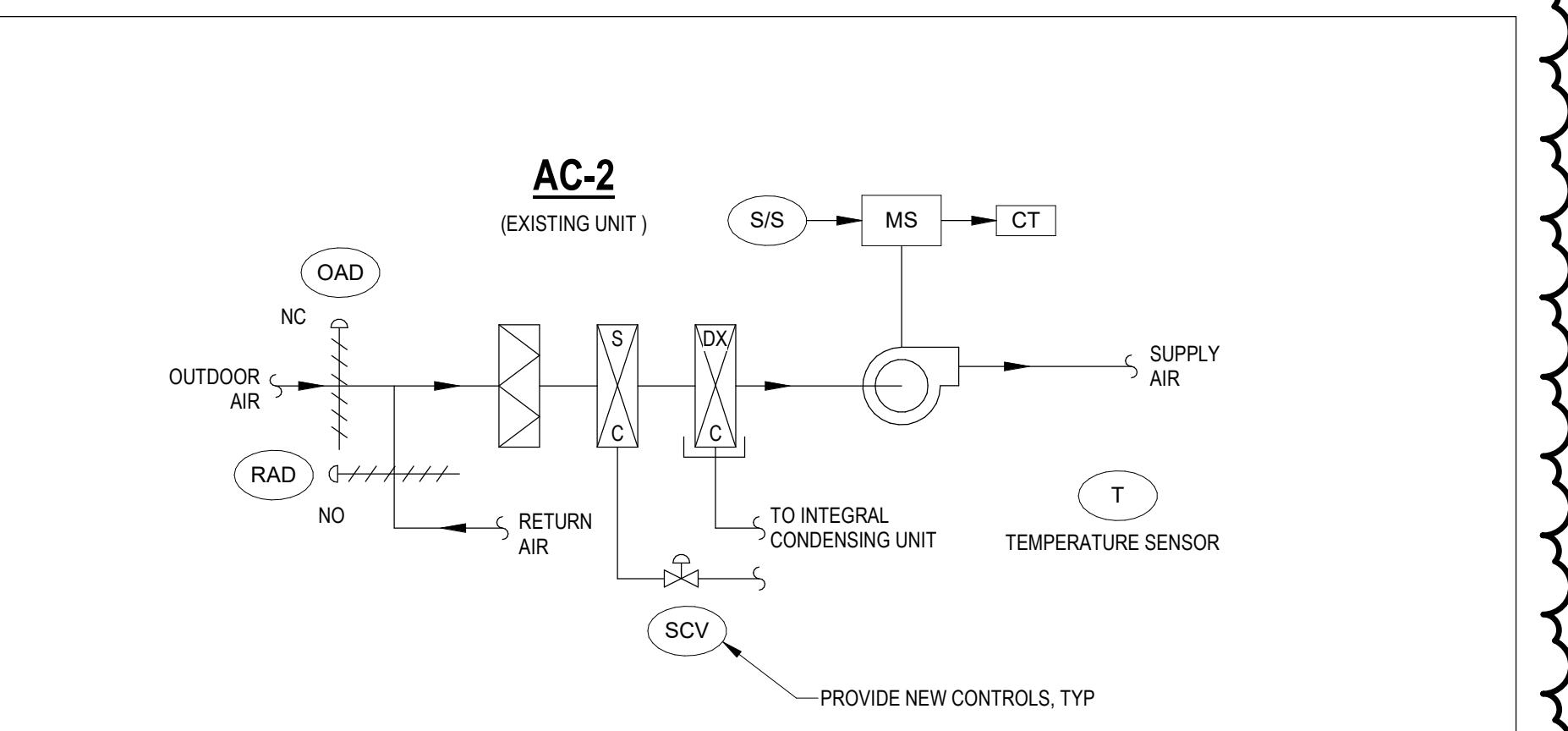
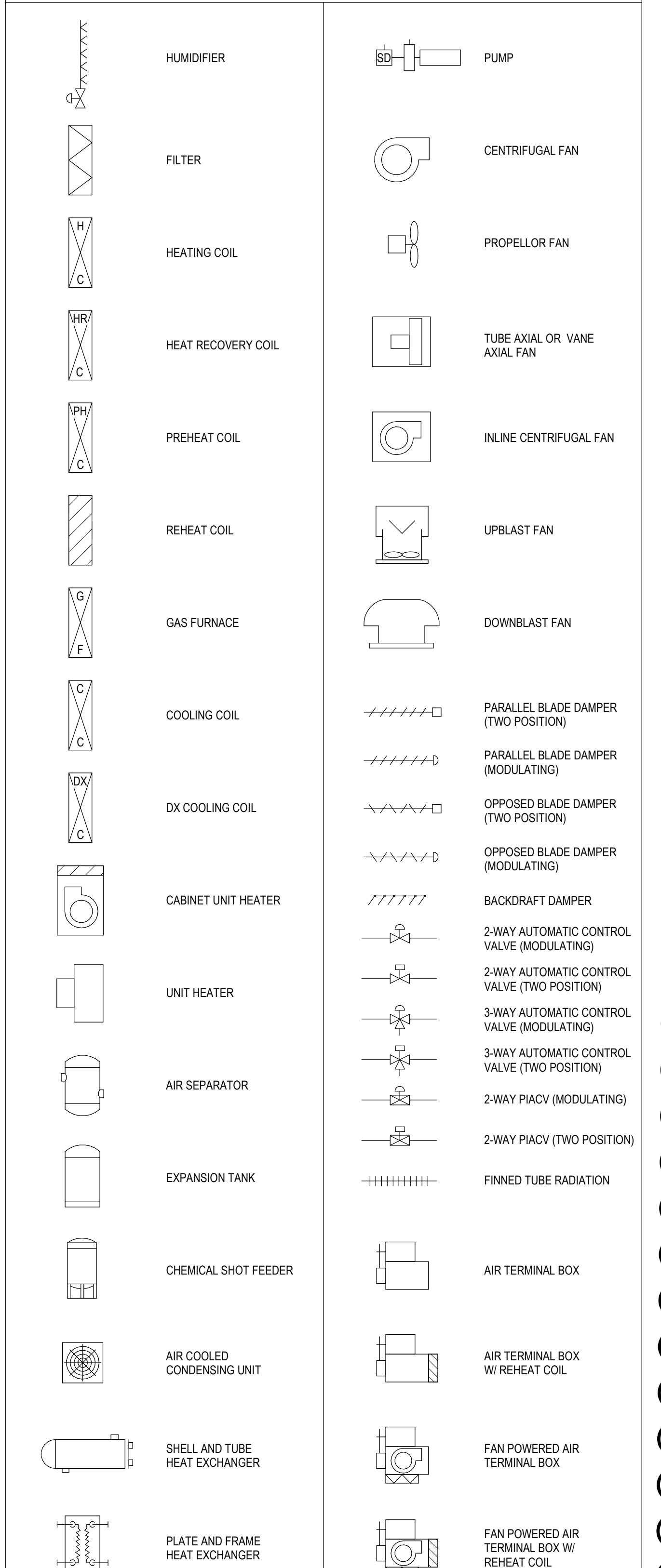
CONTROL ABBREVIATIONS

ACD	AUTOMATIC CONTROL DAMPER	HV	HEATING CONTROL VALVE
ACV	AUTOMATIC CONTROL VALVE	HWT	HOT WATER RETURN TEMP SENSOR
AFMS	AIR FLOW MEASURING STATION	HWT	HOT WATER SUPPLY TEMP SENSOR
ALM	ALARM	IFB	INTEGRAL FACE AND BYPASS
ATC	AUTOMATIC TEMPERATURE CONTROL	IG	INTEGRAL GATE
AQS	AQUASTAT	LAT	LEAVES AIR TEMP SENSOR
BCC	BASEBOARD CONTROL VALVE	LEL	LOW EXPLOSIVE LIMIT
BDD	BACDRAFT DAMPER W/ ADJ	LLSV	Liquid Line Solenoid Valve
BV	COUNTERDRAFT	LPSV	Liquid Pneumatic Pressure Switch
C	BYPASS VALVE	LS	LEVEL SENSOR
CAD	CARBON DIOXIDE SENSOR	LSI	LIGHT SWICH INTERFACE
CAP	CAPACITY CONTROL	LSH	LEVEL SENSOR HIGH ALARM
CLCT	COOLING COIL LEAVING AIR TEMP SENSOR	LSH	LEVEL SENSOR LOW ALARM
COT	COT/ATC	LSLS	LEVEL SENSOR LOW SWITCH
CHRT	CHILLED WATER RETURN TEMP SENSOR	MAT	MIXED AIR TEMP SENSOR
CHST	CHILLED WATER SUPPLY TEMP SENSOR	MUWV	MIX-UP WATER VALVE
CHWR	CHILLED WATER RETURN TEMP	MS	MOTOR STARTER
COT	CONDENSER WATER RET TEMP SENSOR	NC	NORMALLY CLOSED (ON LOSS OF POWER)
CST	CONDENSER WATER SUP TEMP SENSOR	NO	NORMALLY OPEN (ON LOSS OF POWER)
CT	CURRENT TRANSFORMER	OAH	OUTSIDE AIR HUMIDITY SENSOR (WB)
CV	COOLING COIL OUTLET VALVE	OAT	OUTSIDE AIR TEMPERATURE SENSOR (DB)
DAT	DISCHARGE AIR TEMPERATURE SENSOR	PAD	PRIMARY AIR DAMPER
DDC	DIRECT DIGITAL CONTROL	PPC	PROGRAMMABLE PENDANT ACV
DOPC	DIFFERENTIAL PRESSURE SWITCH	PPM	PPM
DPS	DIFFERENTIAL PRESSURE SWITCH	PR	PRESSURE SENSOR
DPT	DIFFERENTIAL PRESSURE SWITCH	PROP	PROPANE SENSOR
DPS	SENSOR/TRANSMITTER	RAD	RELAY
DPV	DIFFERENTIAL PRESSURE BYPASS VALVE	RAH	RETURN AIR HUMIDITY SENSOR
DSP	DISCHARGE STATIC PRESSURE SENSOR	RAT	RETURN AIR TEMPERATURE SENSOR
EAD	EXHAUST AIR DAMPER	RV	REHEAT CONTROL VALVE
EAT	ENTERING AIR TEMPERATURE	RH	RELATIVE HUMIDITY
ECM	ELECTRONICALLY COMMUTATED MOTOR	RIS	RETURN ISOLATION DAMPER
EMW	EMERGENCY RECOVERY WHEEL	S	SWITCH
ES	END SWITCH	SAD	SUPPLY AIR DAMPER
FA	FAULT ALARM	SD	SMOKE DAMPER
FDPs	DIFFERENTIAL PRESSURE SWITCH	SDET	SMOKE DETECTOR
FPT	FLAME/FIRE TRANSMITTER	SFT	SMOKE/FIRE DETECTOR
FS	FLOW SWITCH	SP	STATIC PRESSURE SENSOR
FZ	FREZEESTAT	SPH	SPURGE/VENTURE CONTROL
H	RELATIVE HUMIDITY SENSOR	SIS	START/STOP HIGH SPEED/CAPACITY
HCV	HEATING COIL CONTROL VALVE	SIS	START/STOP LOW SPEED/CAPACITY
HE	HEATING COIL TEMP SENSOR	SSD	SUPPLY AIR ISOLATION DAMPER
HEGA	HIGH EFFICIENCY	SSP	SUPPLY SIDE COMPRESSOR PRESSURE SENSOR
HEPA	HE GAS ABSORBER FILTER	T	TERMOSTAT
HES	HE PARTICULATE AIR FILTER	TAD	TRANSFER AIR DAMPER
HGS	HGS BYPASS	TE	TEMPERATURE SENSOR
HHL	HIGH HUMIDITY LIMIT SENSOR	VFD	VARIABLE FREQUENCY DRIVE
HHL	HIGH-HUMIDITY LIMIT SENSOR	VFD	VFD SPEED
HOA	HAND-OFF AUTOMATIC SWITCH	VFD	VFD OUTPUT (FEEDBACK)
HS	HAND-OFF	VS	VIBRATION SWITCH
HPS	HIGH LIMIT PRESSURE SENSOR		
HSPS	HIGH STATIC PRESSURE SWITCH		

GENERAL ATC NOTES

1. PROVIDE NEW DDC AUTOMATIC TEMPERATURE CONTROL SYSTEM INCLUDING OPERATOR WORKSTATION. CONTROL SOFTWARE TO ALLOW GRAPHIC REPRESENTATION OF THE HVAC SYSTEM WITH POINT AND CLICK SELECTION OF ALL EQUIPMENT. ALL TEMPERATURE SETPOINT CHANGES, SCHEDULING, ETC. SHALL BE ADJUSTABLE THROUGH THE USE OF A MOUSE. PROVIDE GRAPHIC REPRESENTATION OF ALL FLOOR PLANS SHOWING HVAC EQUIPMENT, VALVES, DAMPERS, TEMPERATURE SENSORS, HUMIDITY SENSORS, ETC.
2. OPERATOR WORKSTATION SHALL CONSIST OF CURRENT GENERATION MULTI-CORE INTEL PROCESSOR OPERATING AT 2.4 GHz MINIMUM SPEED. INCLUDE 2GB RAM AND A MINIMUM OF (1) 16GB/720RPM HARD DISK DRIVE. PROVIDE A X16 PCIE GRAPHICS CARD FOR 2 USB 2.0 PORTS, 10/100 BASE-T NETWORK CARD, AND 16X DVD/RW DRIVE. PROVIDE 16IN. LED FLAT SCREEN MONITOR.
3. NEW DDC CONTROL SYSTEM SHALL BE CONNECTED TO AND CONTROL NEW AIR HANDLING UNITS, AIR COOLED CONDENSING UNITS, FANS, VAV TERMINAL UNITS, EXISTING PUMPS, ETC.
4. OPERATOR WORKSTATION TO BE INSTALLED IN THE MAINTENANCE OFFICE. FINAL LOCATION TO BE DETERMINED BY THE OWNER. PROVIDE SECURITY ACCESS/PASSWORD PROGRAMMING FOR DDC CONTROL SYSTEM.
5. ALL ATC CONTROLS SHALL BE HARDWIRED. NO WIRELESS TECHNOLOGY SHALL BE ALLOWED. ALL EXPOSED WIRING IN THE SHOPS, MAINTENANCE OR STORAGE AREAS SHALL BE INSTALLED IN MINIMUM 1/2 INCH GALVANIZED EMT CONDUIT.
6. INSTALL ALL NEW CONTROL WIRING FOR OFFICES AND OTHER SIMILAR OCCUPIED SPACES IN THE WALLS. WHERE WIRING WOULD BE EXPOSED IN THESE AREAS, THE WIRING SHALL BE INSTALLED IN WIRE MOLD.
7. ALL DDC CONTROLLERS CONTROLLING THE H&V UNITS SHALL BE PROVIDED WITH AN OPERATOR DISPLAY/INTERFACE ALLOWING THE USER TO PERFORM OPERATIONS TASKS ON THE ATC SYSTEM. PROVIDE PASSWORD PROTECTION.
8. THE CONTRACTOR SHALL CARRY 16 HOURS OF ADDITIONAL ON-SITE PROGRAMMING (ABOVE BASE CONTRACT) TO ALLOW FOR FIELD MODIFICATIONS THAT MAY BE NEEDED TO OPTIMIZE THE VARIOUS SYSTEMS TO FULLY CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS, SEQUENCE OF CONTROLS AND WORK WITH THE ACTUAL OPERATING CONDITIONS AS INSTALLED. THIS WORK SHALL BE DONE AT NO ADDITIONAL COST.
9. OPERATOR WORKSTATION SHALL ALSO INCLUDE A MINIMUM OF 24 HOURS OF HANDS ON INSTRUCTION GEAR TOWARD OPERATION AND MAINTENANCE OF THE SYSTEM. PRIOR TO TRAINING, THE NECESSARY LESSON PLANS, TRAINING DOCUMENTS, HANDOUTS, ETC. SHALL BE PROVIDED WITH THE CURRICULUM OUTLINE, WHICH SHALL INCLUDE AS A MINIMUM:
 - a. INITIAL SESSION - 8 HRS
 - b. 2ND SESSION, 2 WEEKS LATER - 8 HRS
 - c. REMAINING 8 HRS TO BE SCHEDULED BY THE OWNER AS NEEDED.
10. ALL TRAINING SHALL BE RECORDED AND COPIED TO DVD BY THE ATC CONTRACTOR. THREE COPIES OF THE RECORDED SESSIONS SHALL BE SUBMITTED TO THE OWNER FOR THEIR USE.
11. PROVIDE WIRING FROM ELECTRICAL SOURCE TO MISCELLANEOUS ATC DEVICES. REFER TO HVAC PLANS, HVAC MECHANICAL ROOM PLANS, AND ELECTRICAL PLANS FOR LOCATION OF POWER SOURCES FOR ATC SYSTEM.
12. SUBMIT ACCEPTANCE TESTING PLAN, PRE-FUNCTIONAL PERFORMANCE TEST FORMS/NARRATIVES AND FUNCTIONAL TEST FORMS/NARRATIVES TO ENGINEER FOR REVIEW AND APPROVAL.
13. PROVIDE DEMOLITION OF EXISTING CONTROL COMPONENTS WHICH ARE BEING REPLACED BY THE NEW ATC CONTROL SYSTEM.
14. ALL MOTOR RATED RELAYS FOR FANS, ETC. SHALL BE FURNISHED BY DIVISION 260000 AND TURNED OVER TO DIVISION 260000 FOR INSTALLATION.
15. THE HVAC SYSTEM SHALL INDEX TO HEATING WHEN HOT WATER IS AVAILABLE (GENERALLY BETWEEN THE MONTHS OF OCTOBER AND APRIL). THE HVAC SYSTEM SHALL BE INDEXED TO COOLING WHEN DX IS AVAILABLE (GENERALLY BETWEEN THE MONTHS OF MAY AND SEPTEMBER).
16. LOCATION OF ALL NEW DDC CONTROL PANELS SHALL BE FIELD VERIFIED WITH THE EXISTING CONDITIONS BY THE CONTRACTOR.

DIAGRAM EQUIPMENT SYMBOLS

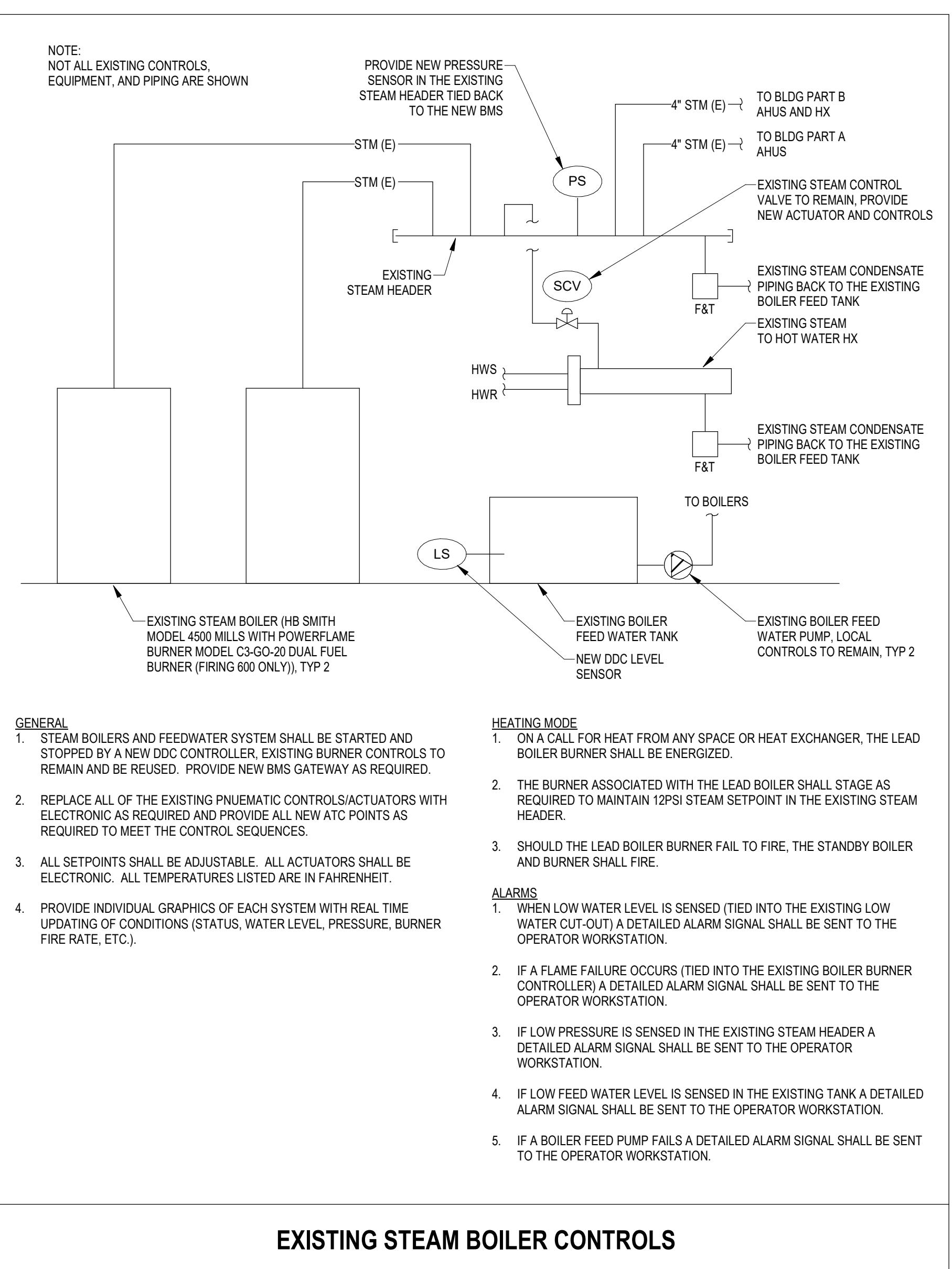
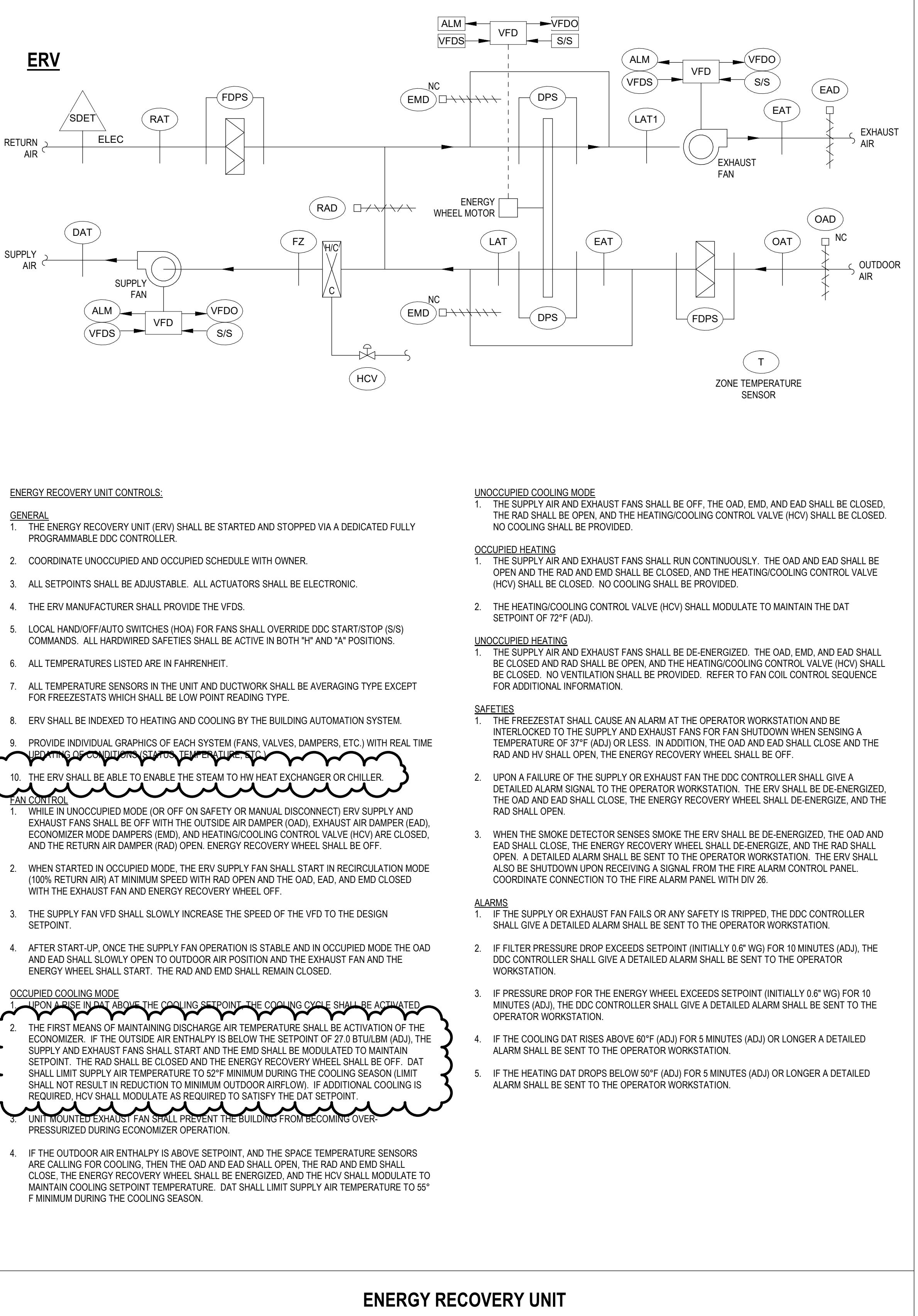
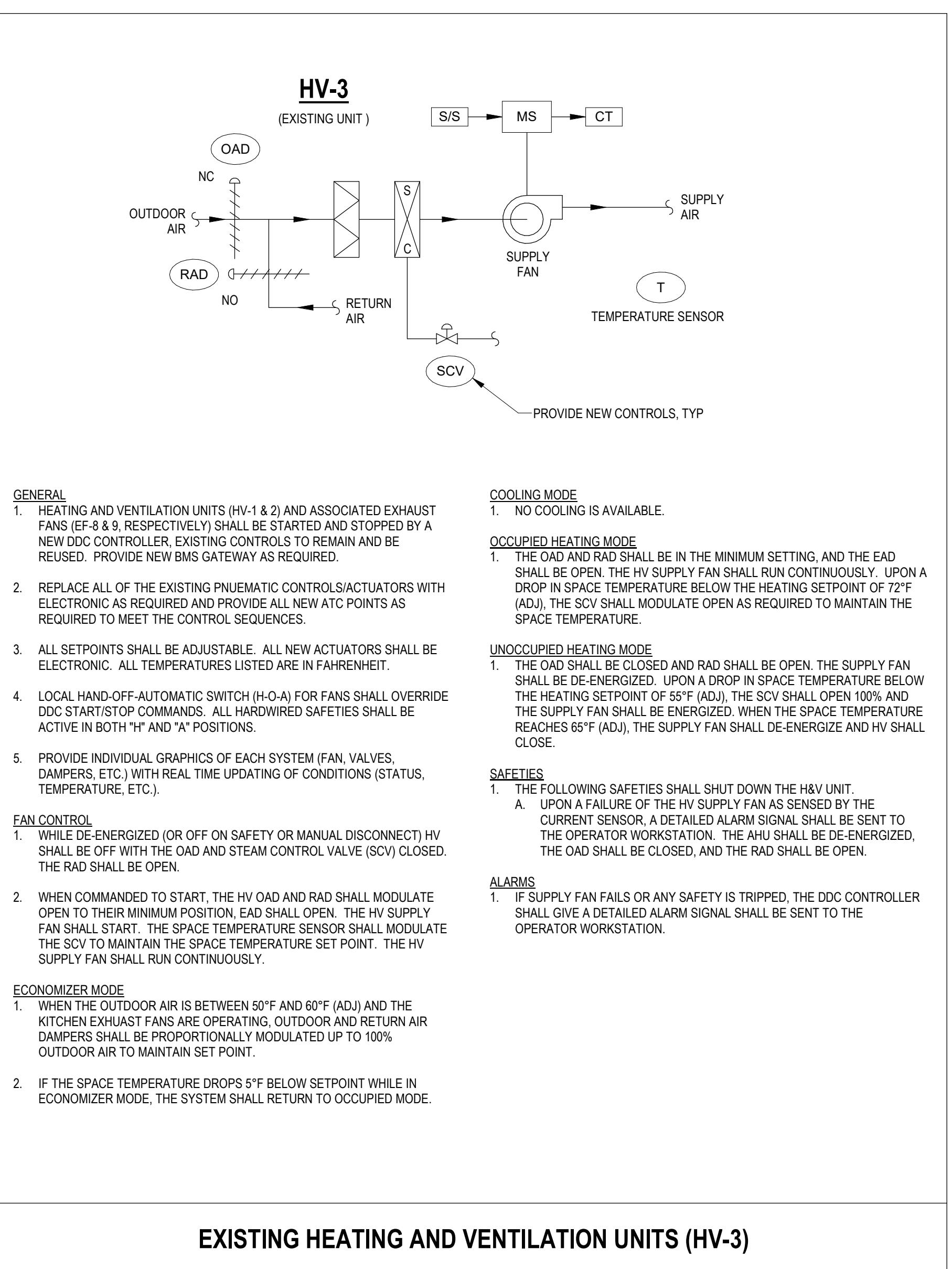
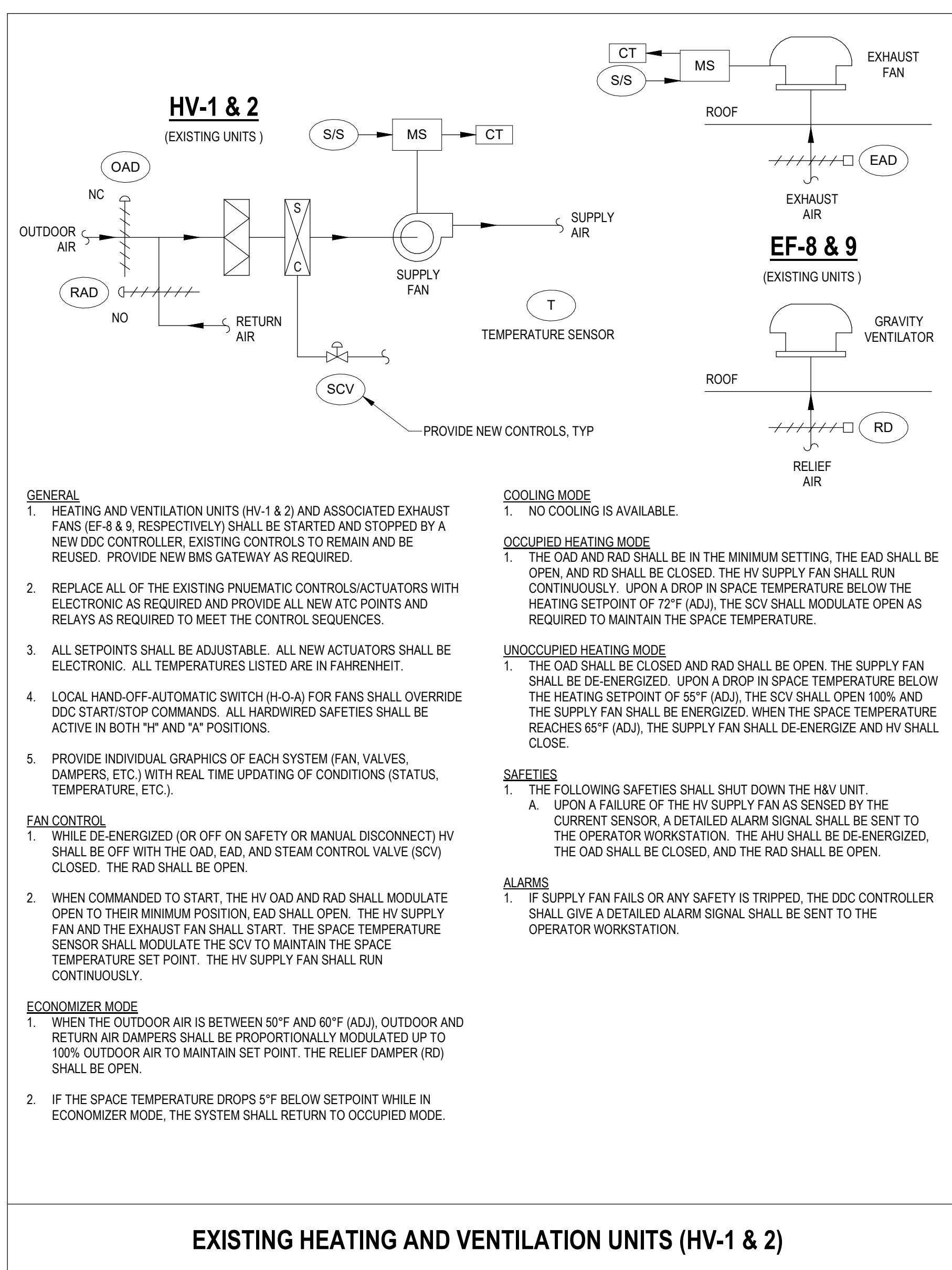


DDC MATRIX

DDC CONTROL MATRIX	
EQUIPMENT CATEGORY	CONTROLS BY
STM IX	MFR ATC
PUMPS	X
AHUX	X
FAN COIL UNITS	X
ERV X	X
EXHAUST FANS	X
UH & CUH	X
BOILERS	X

GLOBAL POINTS

TS	GLOBAL OUTDOOR AIR TEMPERATURE AND RELATIVE HUMIDITY SENSORS
RH	





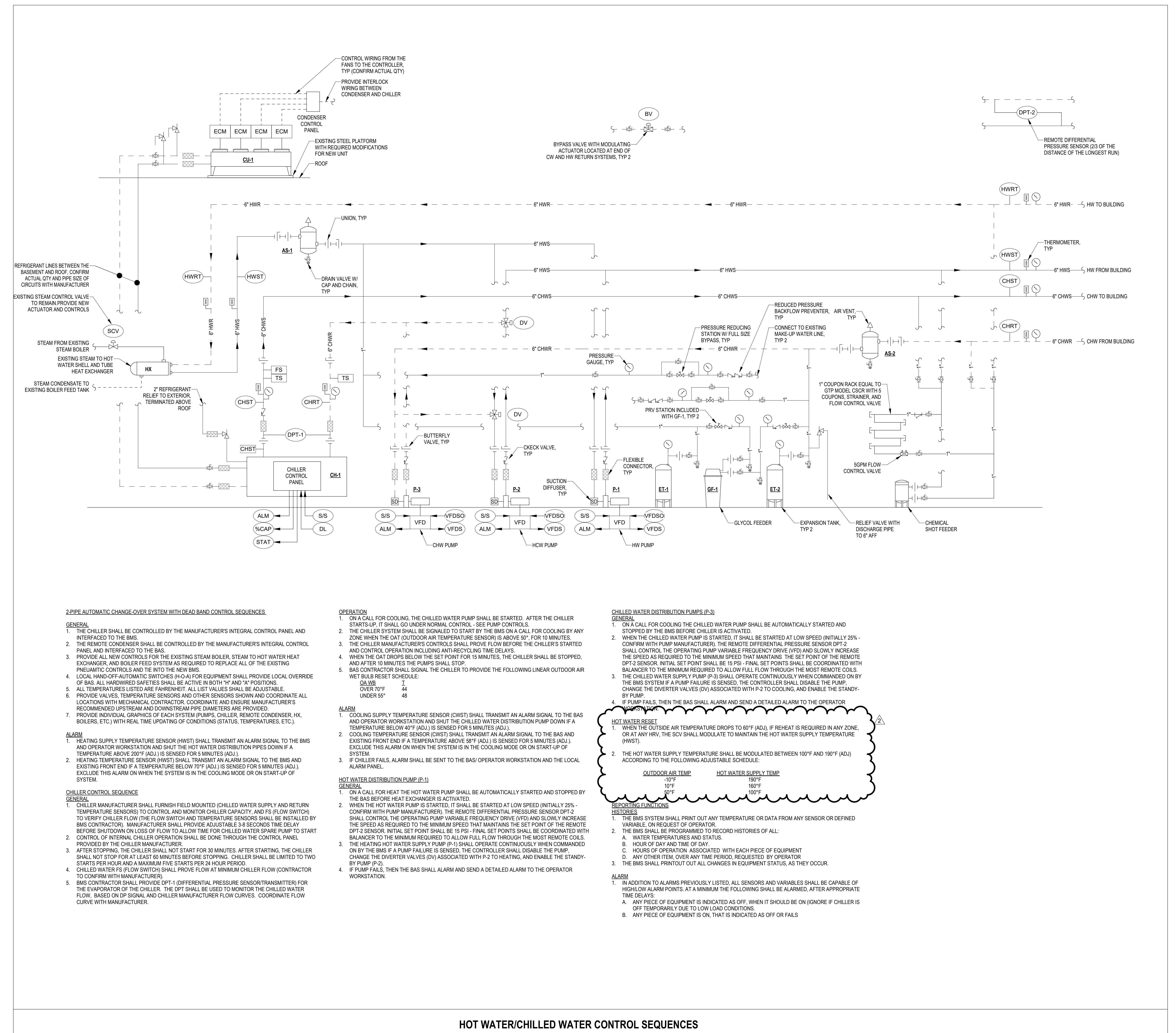
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CT 06024-5064
30 ELLINGTON, FARMINGTON, CT 06035
Connecticut / Massachusetts / North Carolina

Seal:





Rev	Date	Description
1	4/15/2020	ADDENDUM #1

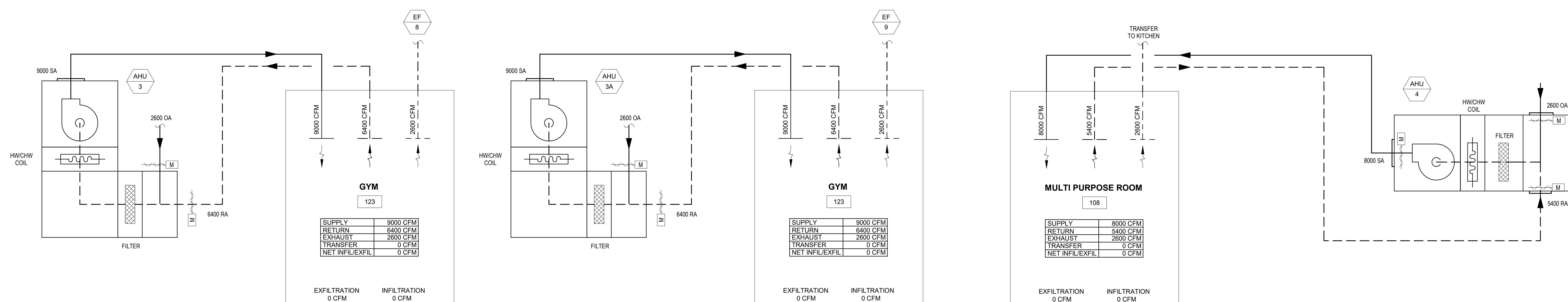
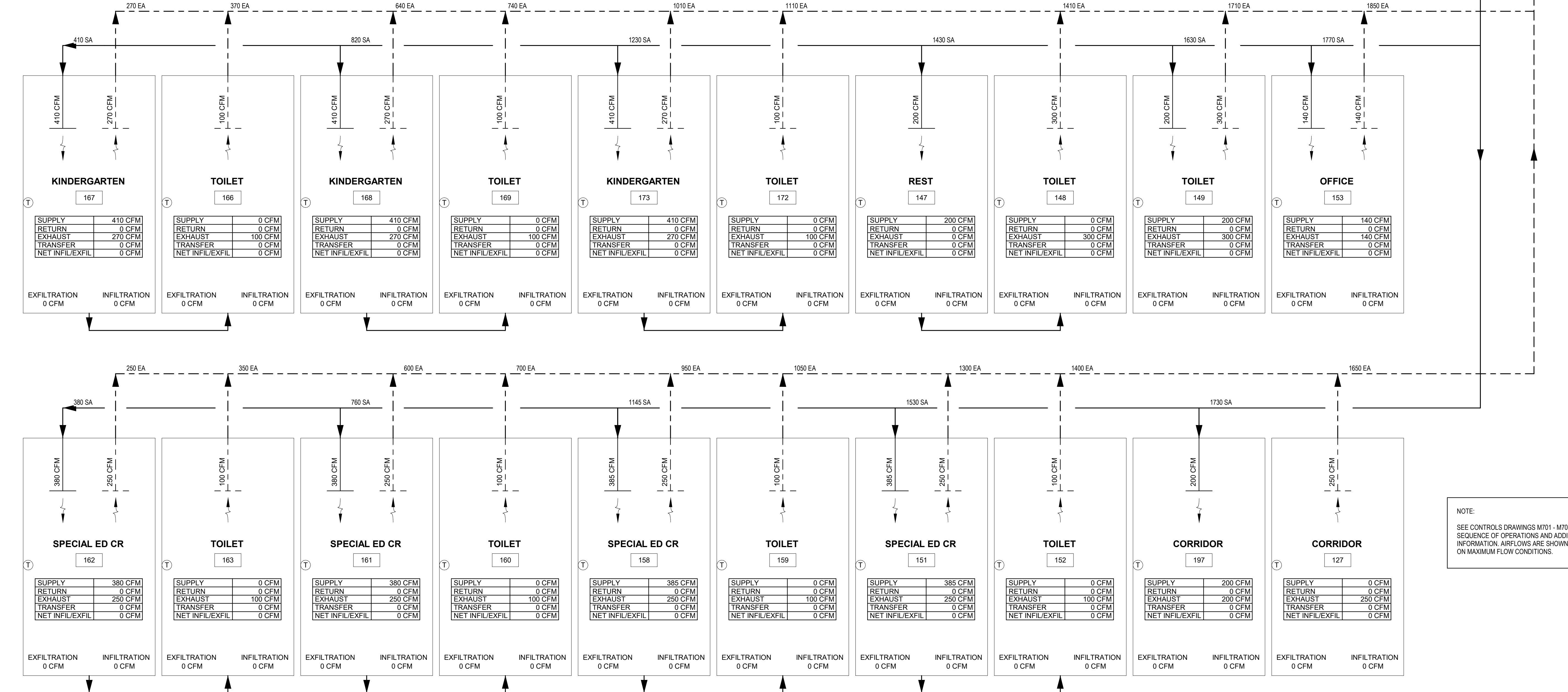
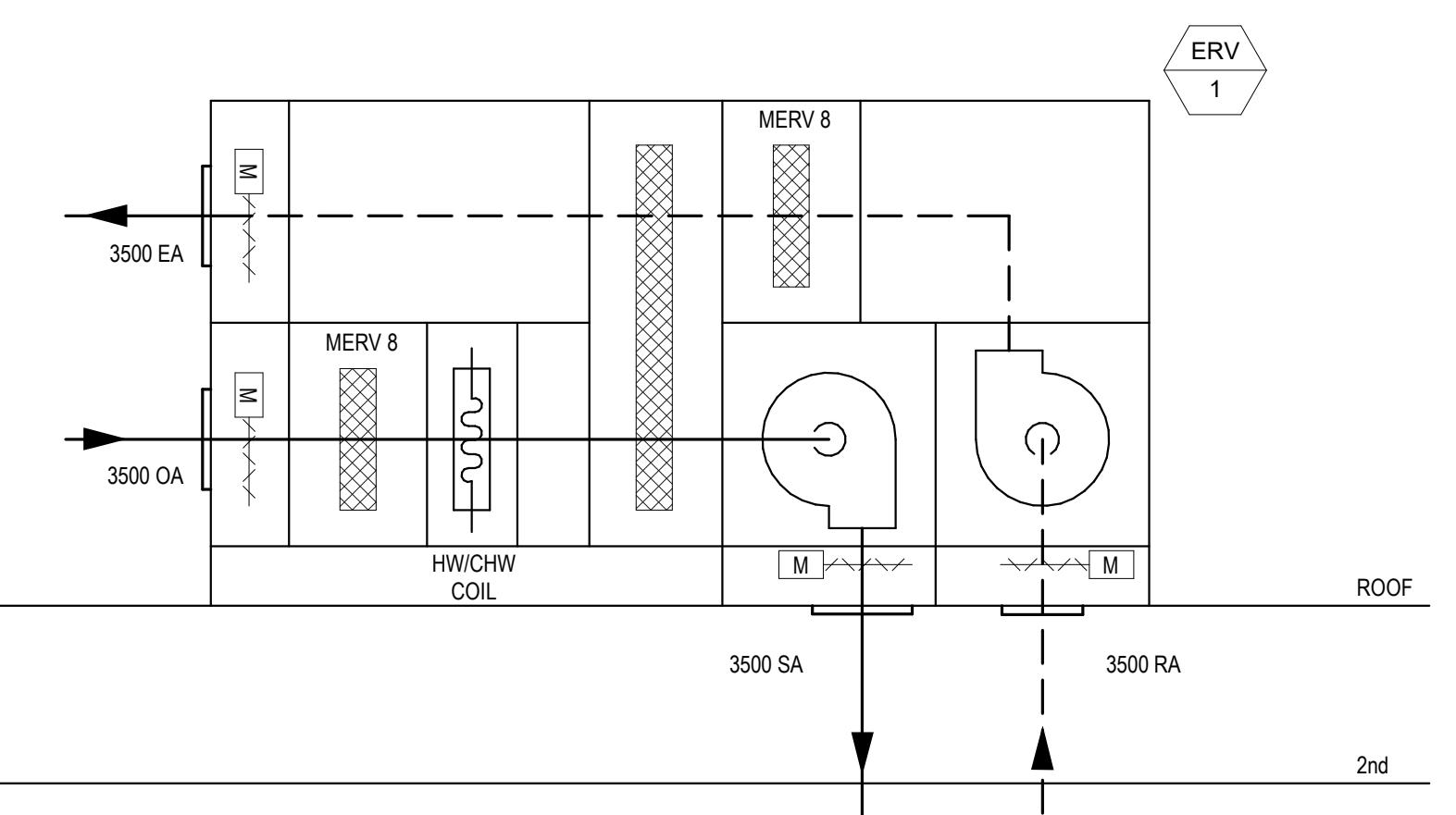


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Consultants:

QA+M
architecture

QuisenberryArcanMalkin
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Issued For: BID SET

Date: April 2, 2020

Drawn By: HJH

Reviewed By: SEH

Approved By: SEH

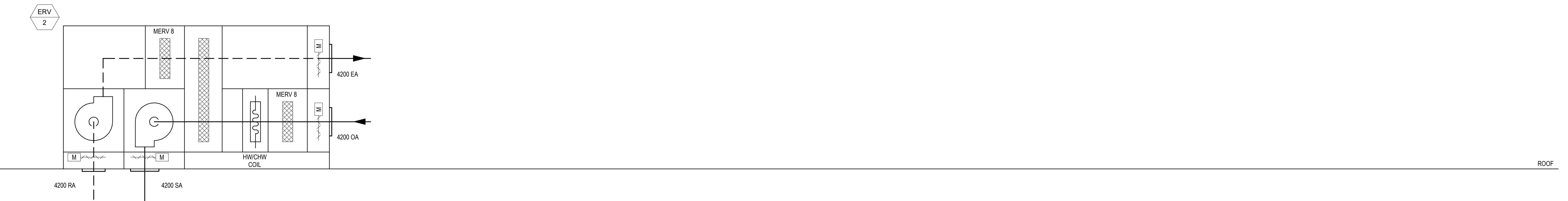
W&S Project No: 219117

Drawing Title:

**AIRFLOW
DIAGRAM**

Sheet Number:

H801



Project: CONTRACT 2C20-064
 MECH IMPROVEMENTS AT SOUTH SIDE ELEMENTARY SCHOOL BRISTOL, CT
 21 Tuttle Rd.
 Bristol, CT 06010

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Revisions:

Rev	Date	Description

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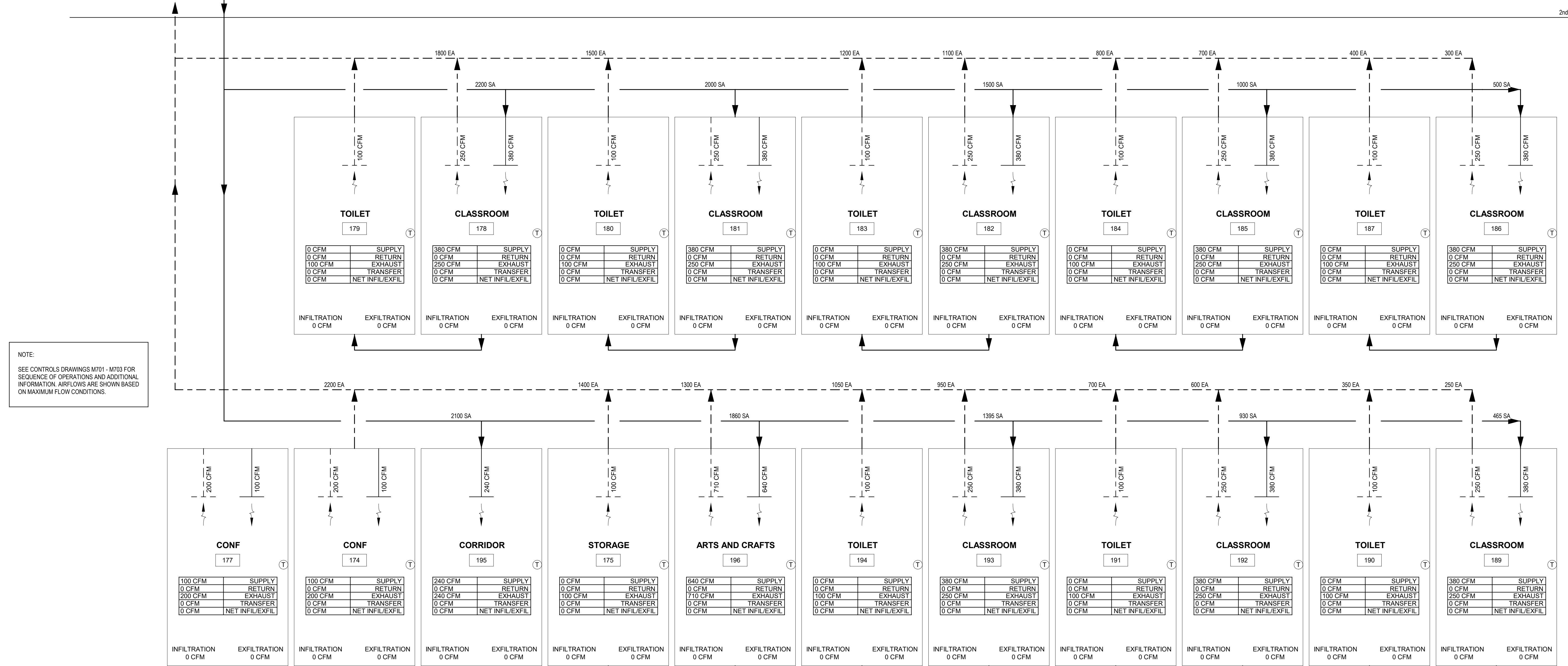
Date: April 2, 2020
 Drawn By: HJH
 Reviewed By: SEH
 Approved By: SEH
 W&S Project No: 219117

Drawing Title:
AIRFLOW DIAGRAMS

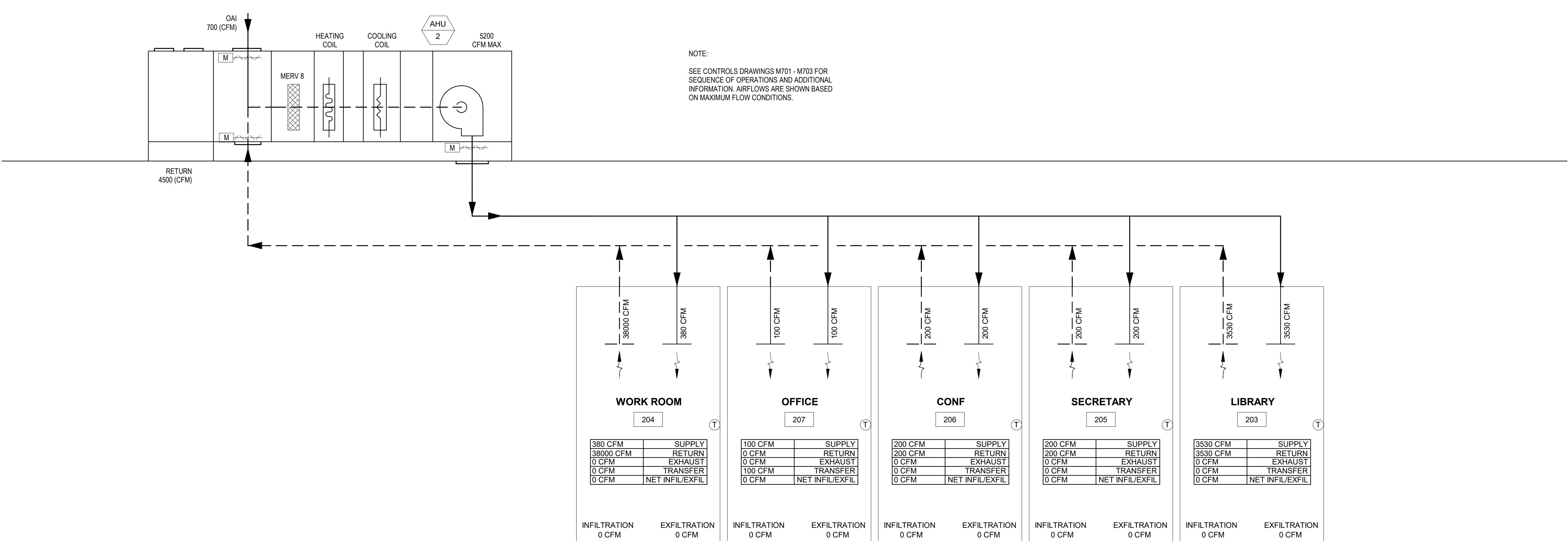
Sheet Number:

H802

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NOTE:
 SEE CONTROLS DRAWINGS M701 - M703 FOR
 SEQUENCE OF OPERATIONS AND ADDITIONAL
 INFORMATION. AIRFLOWS ARE SHOWN BASED
 ON MAXIMUM FLOW CONDITIONS.

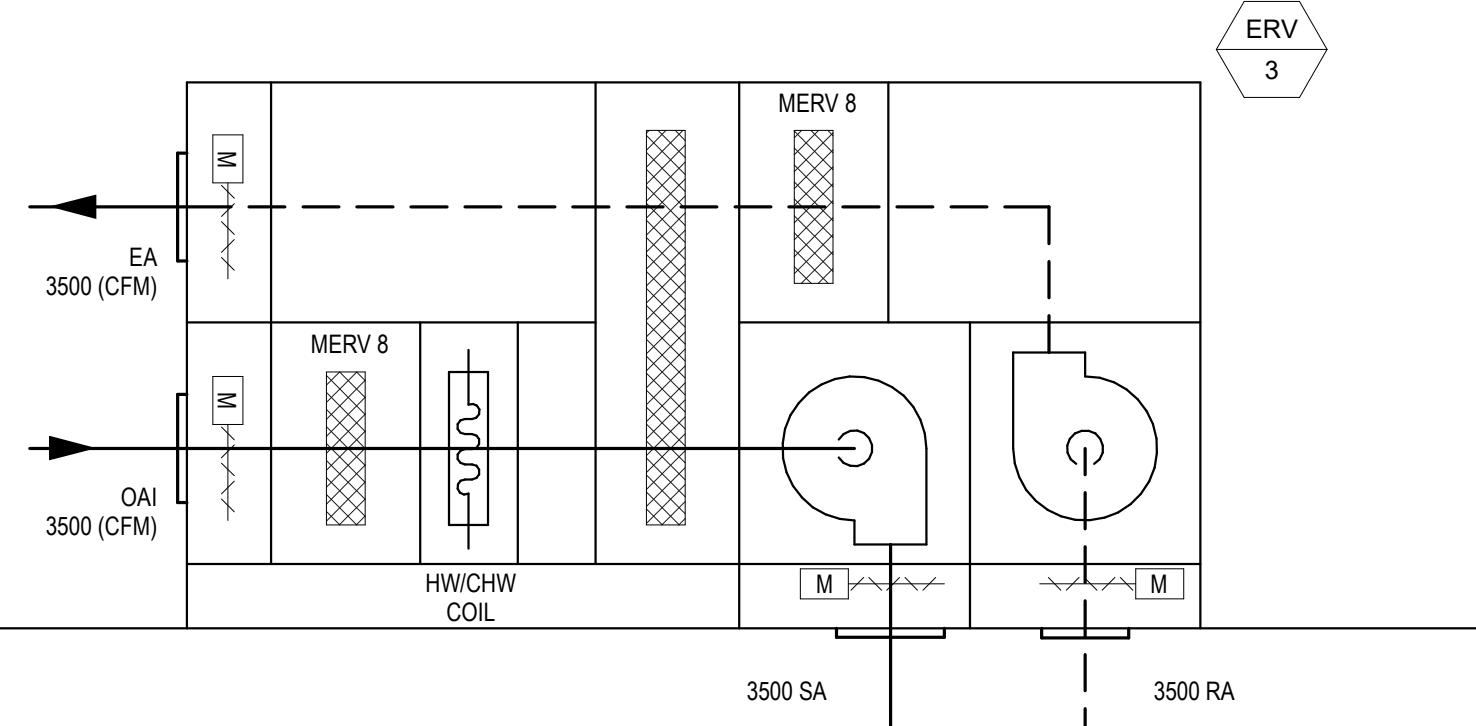
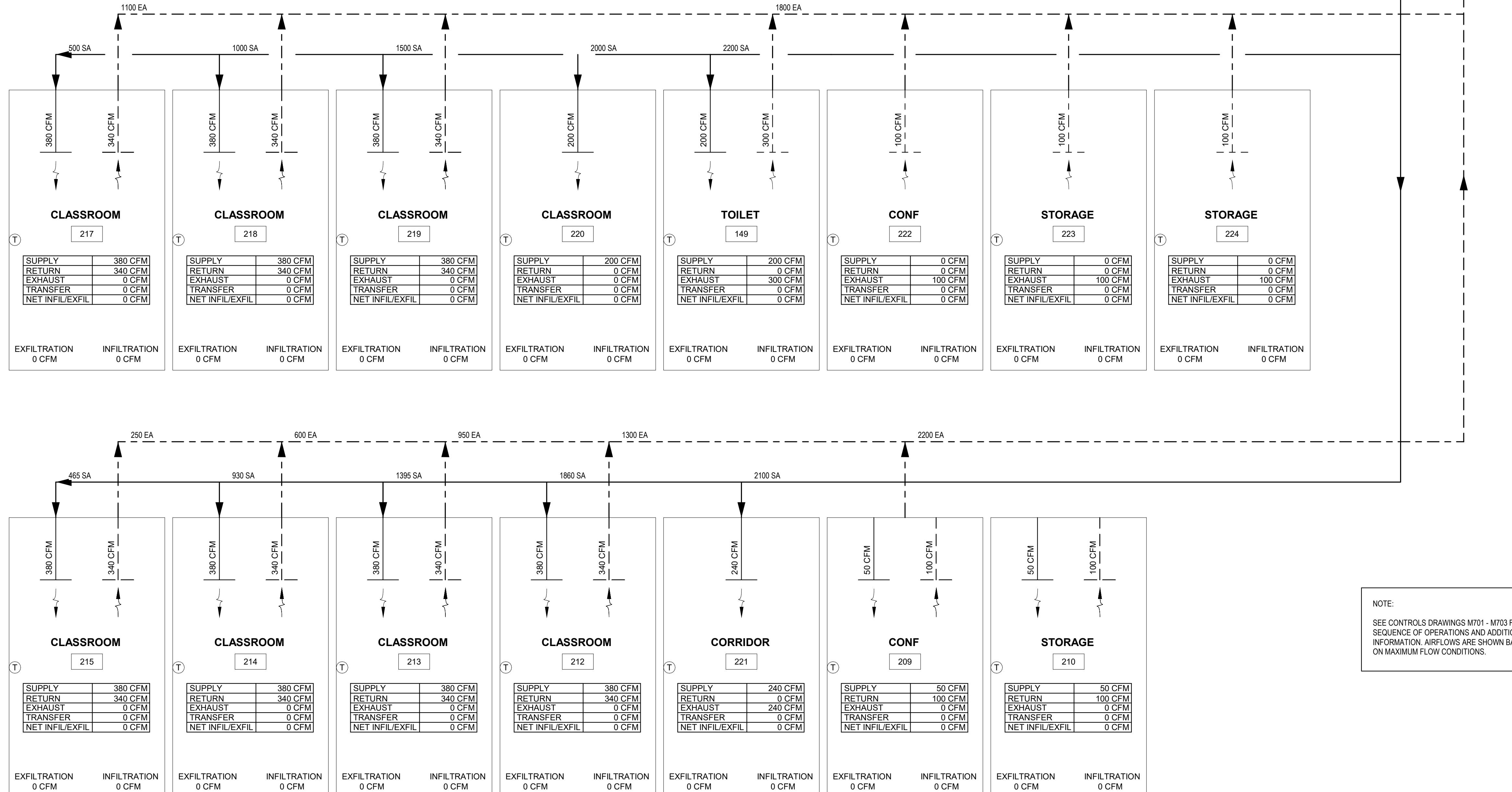


NOTE:
 SEE CONTROLS DRAWINGS M701 - M703 FOR
 SEQUENCE OF OPERATIONS AND ADDITIONAL
 INFORMATION. AIRFLOWS ARE SHOWN BASED
 ON MAXIMUM FLOW CONDITIONS.

Sheet Number:

H802

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Revisions:

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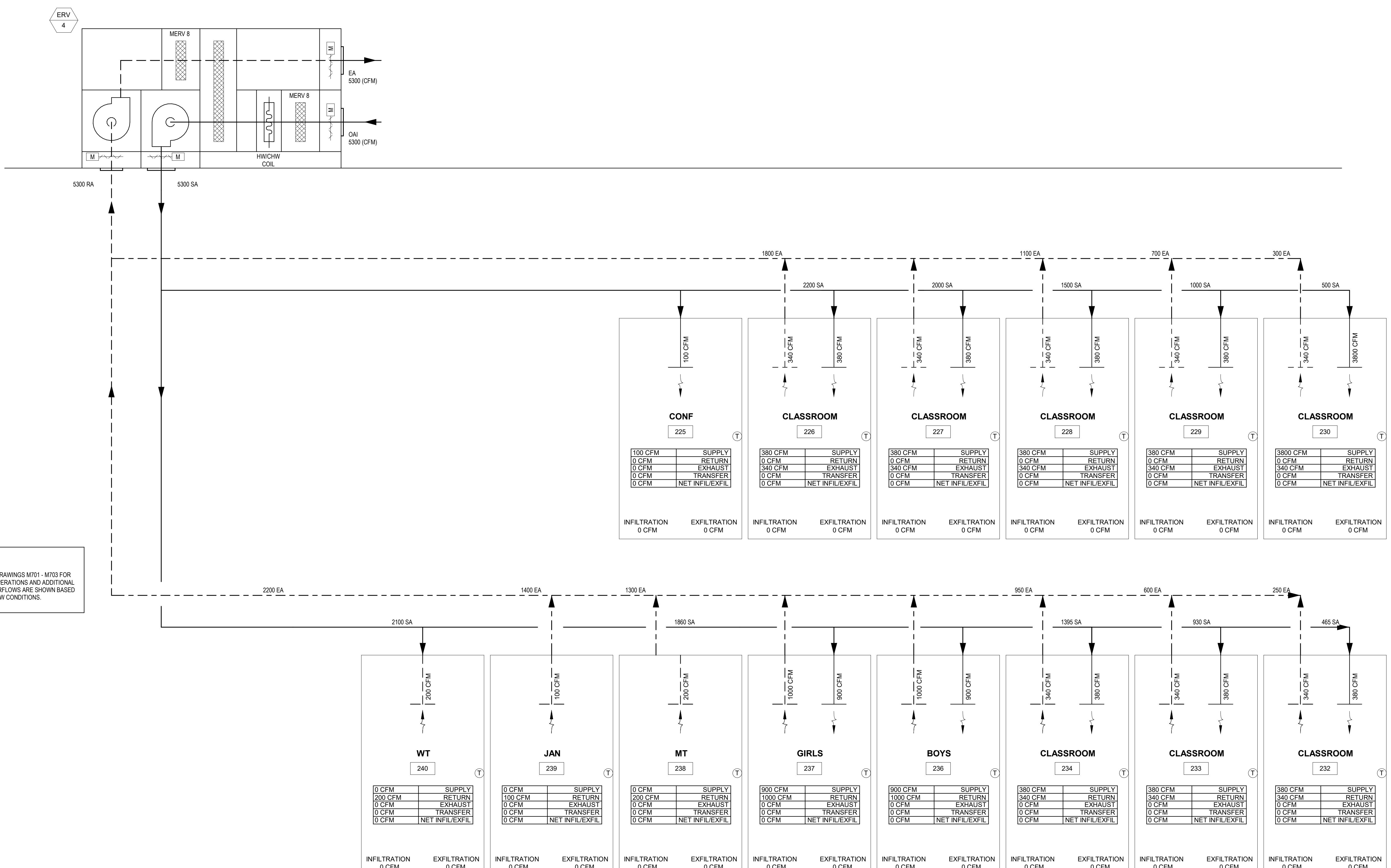
Date: April 2, 2020
 Drawn By: HJH
 Reviewed By: SEH
 Approved By: SEH
 W&S Project No: 2191117

Drawing Title:

AIRFLOW
 DIAGRAMS

Sheet Number:

H803



Project: CONTRACT 2C20-064

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Revisions:

Rev	Date	Description

Issued For: BID SET

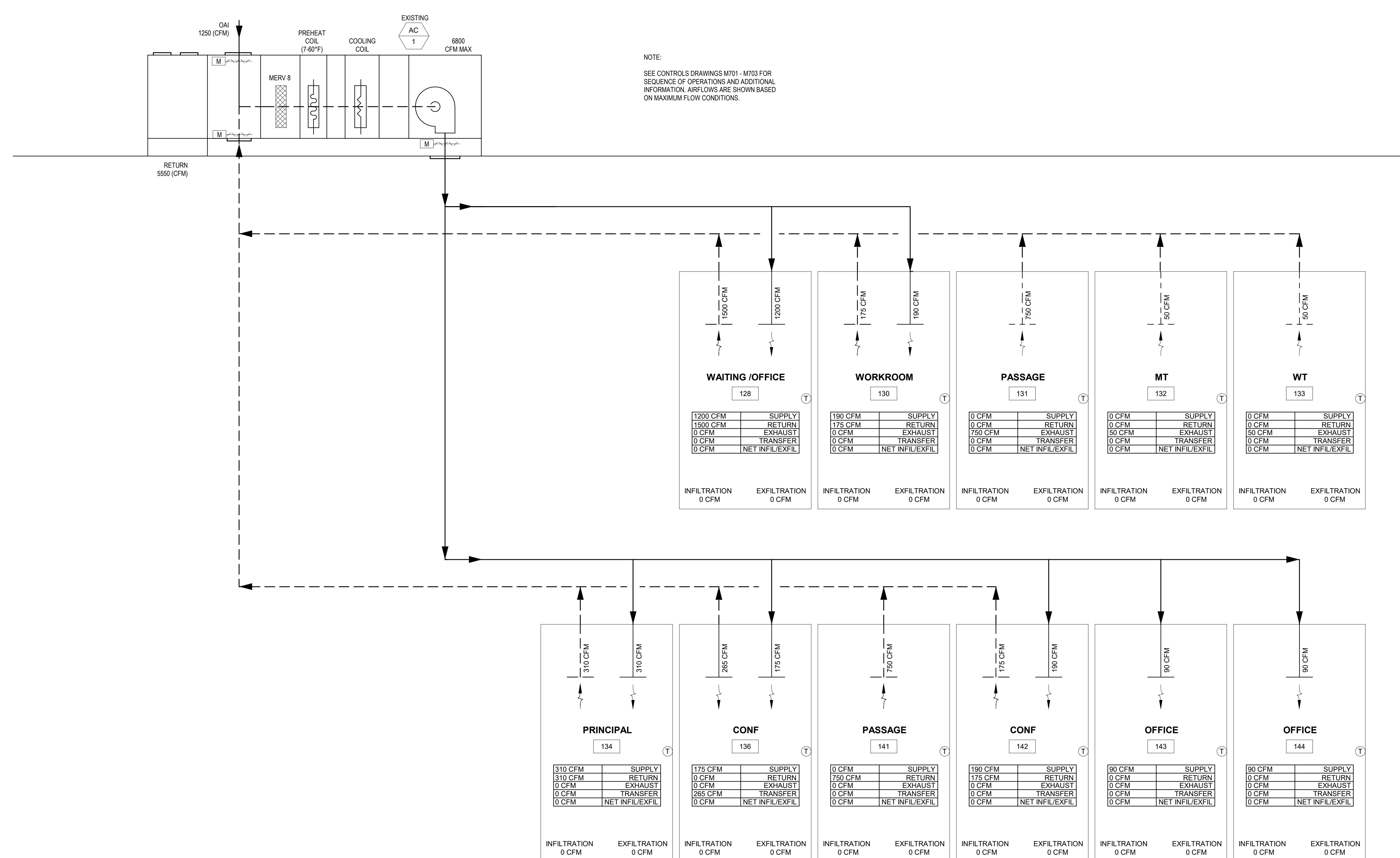
Date: April 2, 2020
 Drawn By: HJH
 Reviewed By: SEH
 Approved By: SEH
 W&S Project No: 2191117

Drawing Title: AIRFLOW DIAGRAMS
 Sheet Number: H804
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Issued For: BID SET

Date: April 2, 2020
Drawn By: HJH
Reviewed By: SEH
Approved By: SEH
W&S Project No: 2191117

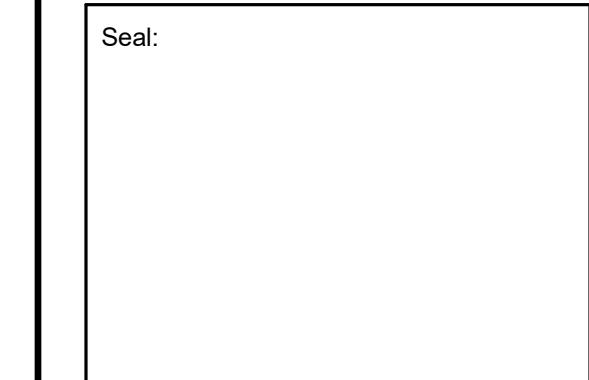
Drawing Title:

AIRFLOW
DIAGRAMS

Sheet Number:

H805

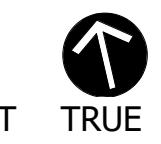
Seal:



Revisions:

Rev	Date	Description
1	4/15/2020	ADDENDUM #1

Issued For: ADDENDUM #1

 PROJECT
 TRUE

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

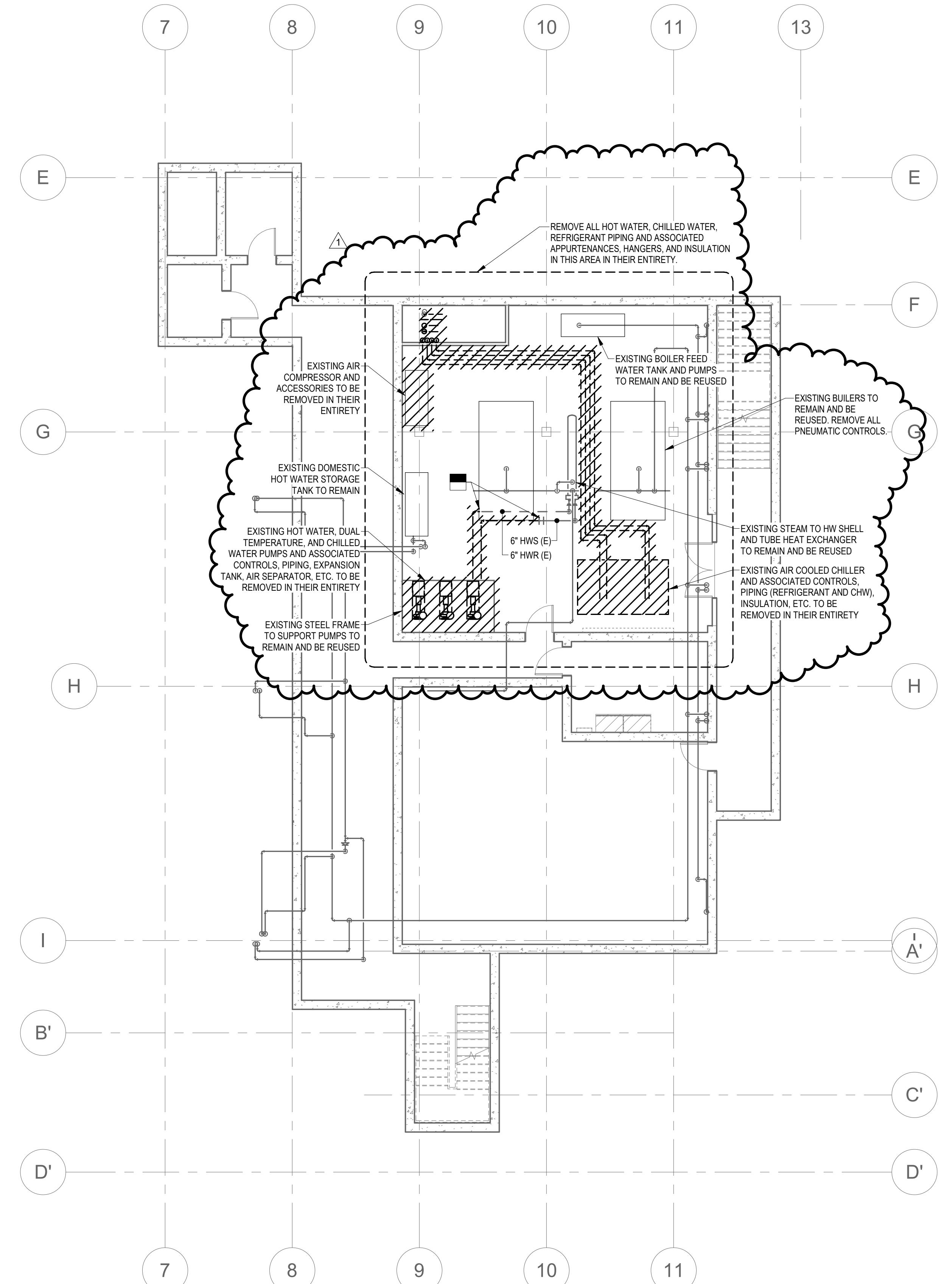
Date: April 15, 2020
 Drawn By: MRC
 Reviewed By: SEH
 Approved By: SEH
 W&S Project No: 2191117

Drawing Title:

BASEMENT
 DEMOLITION PLAN

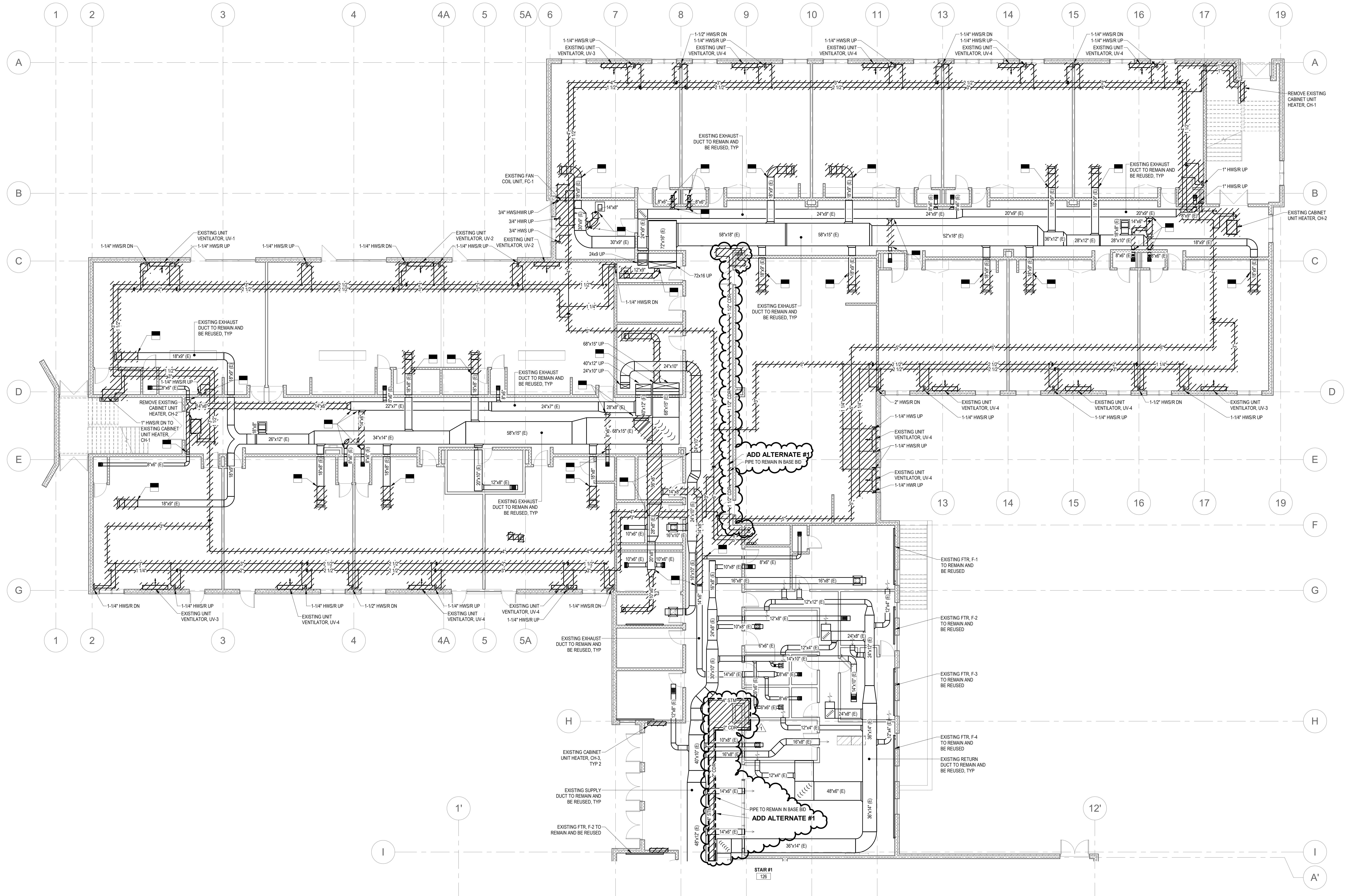
Sheet Number:

HD100



GENERAL NOTES

1. REMOVE ALL OF THE EXISTING UNIT VENTILATORS AND ASSOCIATED CONTROLS, PIPING, AND SLEEVE (INCLUDING THE OUTSIDE AIR INTAKE OR TEE) IN THEIR ENTIRETY. PROVIDED THAT THE LOCATION OF THE EXTERIOR WALL AND ROOF SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS
2. REFERENCE HM-1 & HM-2



GENERAL NOTES

RE ALL OF THE EXISTING UNIT
ATORS AND ASSOCIATED CONTROLS,
AND SLEEVE (INCLUDING THE OUTSIDE
AKE GRILLE) IN THEIR ENTIRETY.
NG OF THE FLOOR, INTERIOR ,
OR WALL AND ROOF SHALL BE
INATED WITH THE ARCHITECTUAL
ANCE HM-1 & HM-2

MECH IMPROVEMENTS AT
SOUTH SIDE ELEMENTARY
SCHOOL BRISTOL, CT

Bristol, CT 06010

The logo for Weston & Sampson Engineers, Inc. It features the company name "Weston & Sampson" in a large, serif, grey font. The ampersand (&) is stylized with a circle around it. A small "SM" is in the top right corner of the circle. Below the name is a thin horizontal line. Underneath the line, the company address and contact information are listed in a smaller, black, sans-serif font.

Consultants:

QA+M

architecture

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Issued For: ADDENDUM #1

The image consists of two circular icons. Each icon contains a white arrow pointing upwards. The left icon is associated with the word 'PROJECT' and the right icon is associated with the word 'TRUE'. The text is in a bold, sans-serif font.

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

Date: April 15, 2020

Drawn By: MRC

Reviewed By: SEH

Approved By: SEH

Drawing Title:

FIRST FLOOR DEMOLITION PLAN PART B

11815

HD101B

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EXISTING CONVECTOR (C-1) TO REMAIN AND BE REUSED AND ASSOCIATED CONTROLS TO BE REMOVED IN THEIR ENTIRETY

EXISTING FINNED TUBE RADIATION (F-1) TO REMAIN AND BE REUSED AND ASSOCIATED CONTROLS TO BE REMOVED IN THEIR ENTIRETY

EXISTING FTR, F-2 TO REMAIN AND BE REUSED

EXISTING 3/4" HWS/R UP TO REMAIN AND BE REUSED

3/4" HWS (E)

3/4" HWR (E)

MULTI PURPOSE RM. 108

ALL WORK SHOWN IN THIS AREA SHALL BE PART OF ADD ALTERNATE #1

REMOVE ALL PNEUMATIC CONTROLS FOR ALL EXISTING EQUIPMENT TO REMAIN AND BE REUSED BASE BID + ALTERNATE

EXISTING FINNED TUBE RADIATION (F-6) AND ASSOCIATED CONTROLS AND PIPING TO BE REMAIN AND BE REUSED

3/4" HWS/R UP, TYP 2

EXISTING CABINET UNIT HEATER (CH-6) AND ASSOCIATED CONTROLS TO BE REMOVED IN THEIR ENTIRETY, TYP 2

KITCHEN 112

EXISTING CONVECTOR (C-1) AND ASSOCIATED CONTROLS TO BE REMOVED IN THEIR ENTIRETY

3/4" HWS/R UP

EXISTING RECESSED CABINET UNIT HEATER (CH-1) AND ASSOCIATED CONTROLS TO BE REMOVED IN THEIR ENTIRETY

EXISTING UNIT VENTILATOR (UV-7)

STAIR #1 126

GYM STOR. 125

GYM #2 124

LOCKER RM. 121

Room 106

GYM STOR. 120

GYM #1 123

FACULTY DINING 117

YARD STORAGE 118

1' 2' 3' 4' 5' 6' 7' 9' 11' 12'

1' 2' 3' 4' 5' 6' 7' 9' 11' 12'

A' B' C' D' E' F' G' H' I' J' K' L' M' N' O'

1' 2' 3' 4' 5' 6' 7' 9' 11' 12'

1' 2' 3' 4' 5' 6' 7' 9' 11' 12'

A' B' C' D' E' F' G' H' I' J' K' L' M' N' O'



Project:
CONTRACT 2C20-064

MECH IMPROVEMENTS AT

SOUTH SIDE ELEMENTARY

SCHOOL BRISTOL, CT

21 Tuttle Rd.

Bristol, CT 06010

Weston & Sampson

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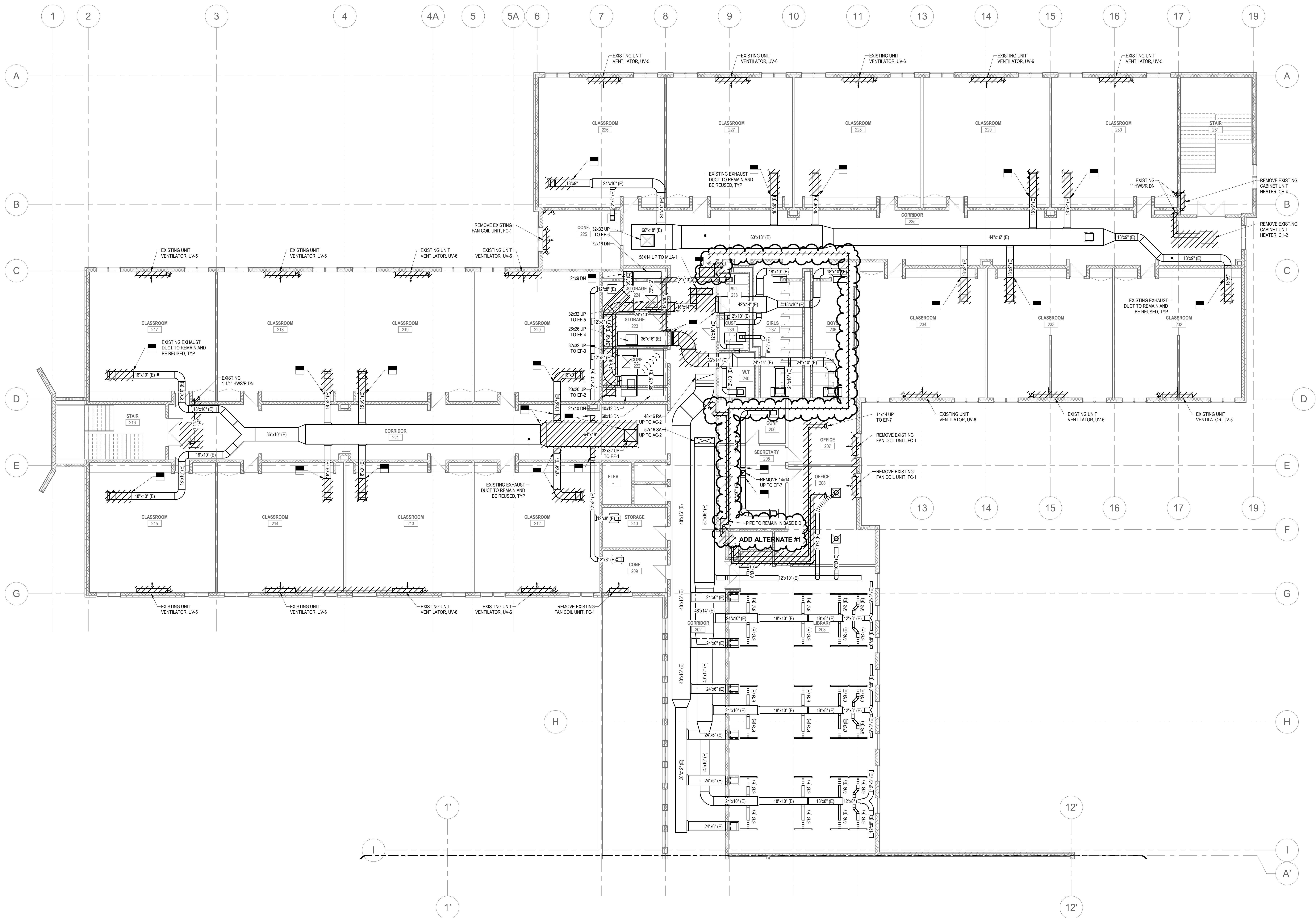
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GENERAL NOTES

1. REMOVE ALL OF THE EXISTING UNIT VENTILATORS, CONTROLS, PIPING, AND SLEEVES INCLUDING THE OUTSIDE AIR INTAKE GRILLE IN THEIR ENTIRETY. PATCHING OF THE FLOOR, INTERIOR, EXTERIOR WALL AND ROOF SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS.
2. REFERENCE HM-1 & HM-2



Consultants:

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VAN ZELM SERVICES & SHAFER, INC.
CT 06024-5064

180 SOUTH SWAMP ROAD
FARMINGTON, CT 06032-1000

Connecticut • Massachusetts • North Carolina

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Revisions:

Rev	Date	Description
1	4/15/2020	ADDENDUM #1

Issued For:

ADDENDUM #1

PROJECT TRUE

0' 4' 8' 16'

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

Date: April 15, 2020

Drawn By: MRC

Reviewed By: SEH

Approved By: SEH

W&S Project No: 2191117

Drawing Title:

SECOND FLOOR
DEMOLITION PLAN
PART A

Sheet Number:

HD102A

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Project:
CONTRACT 2C20-064

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Seal:

Revisions:
Rev Date Description
1 4/15/2020 ADDENDUM #1

Issued For: ADDENDUM #1

PROJECT TRUE

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

Date: April 15, 2020
Drawn By: MRC
Reviewed By: SEH
Approved By: SEH
W&S Project No: 2191117

Drawing Title:

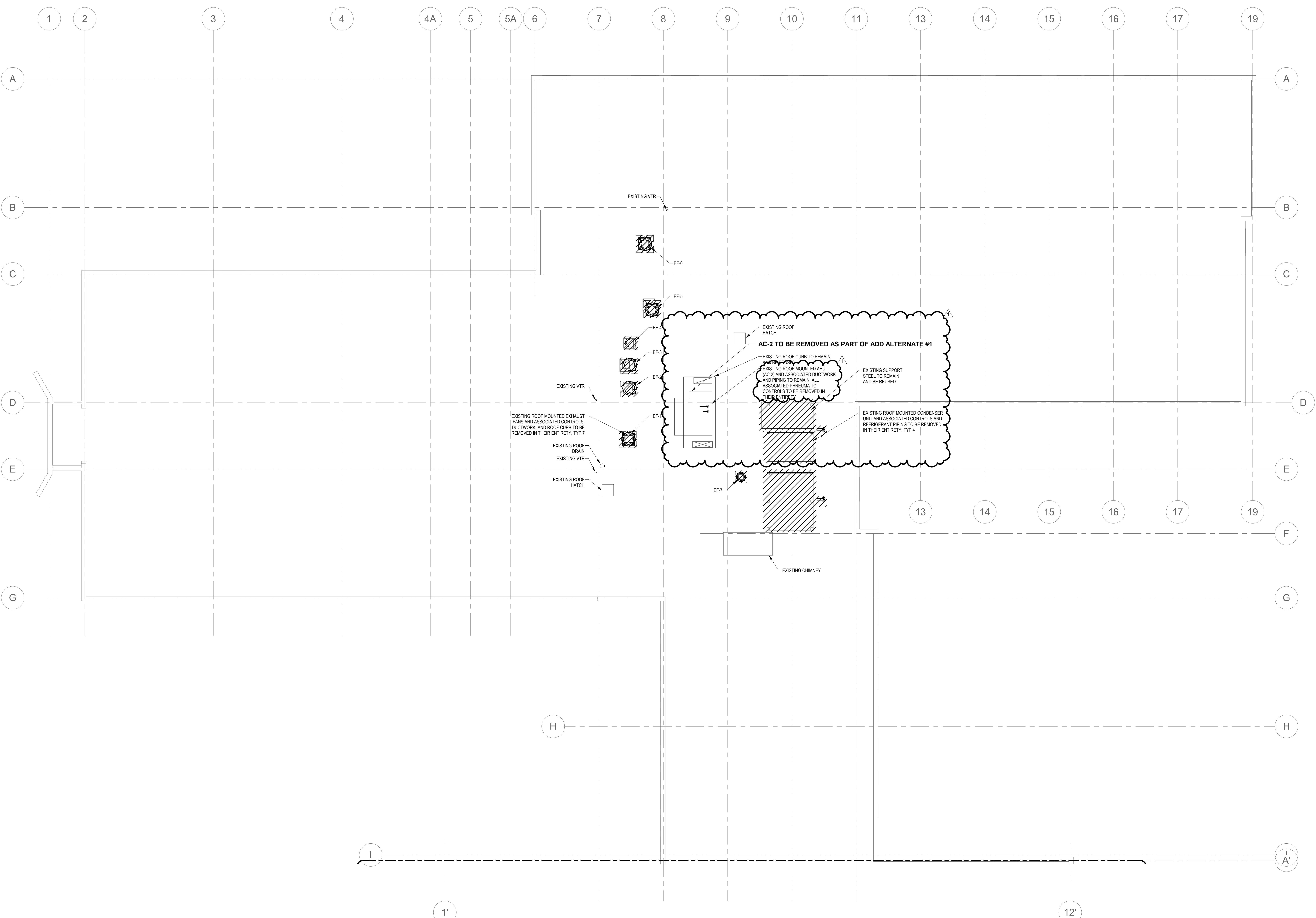
ROOF
DEMOLITION PLAN
PART A

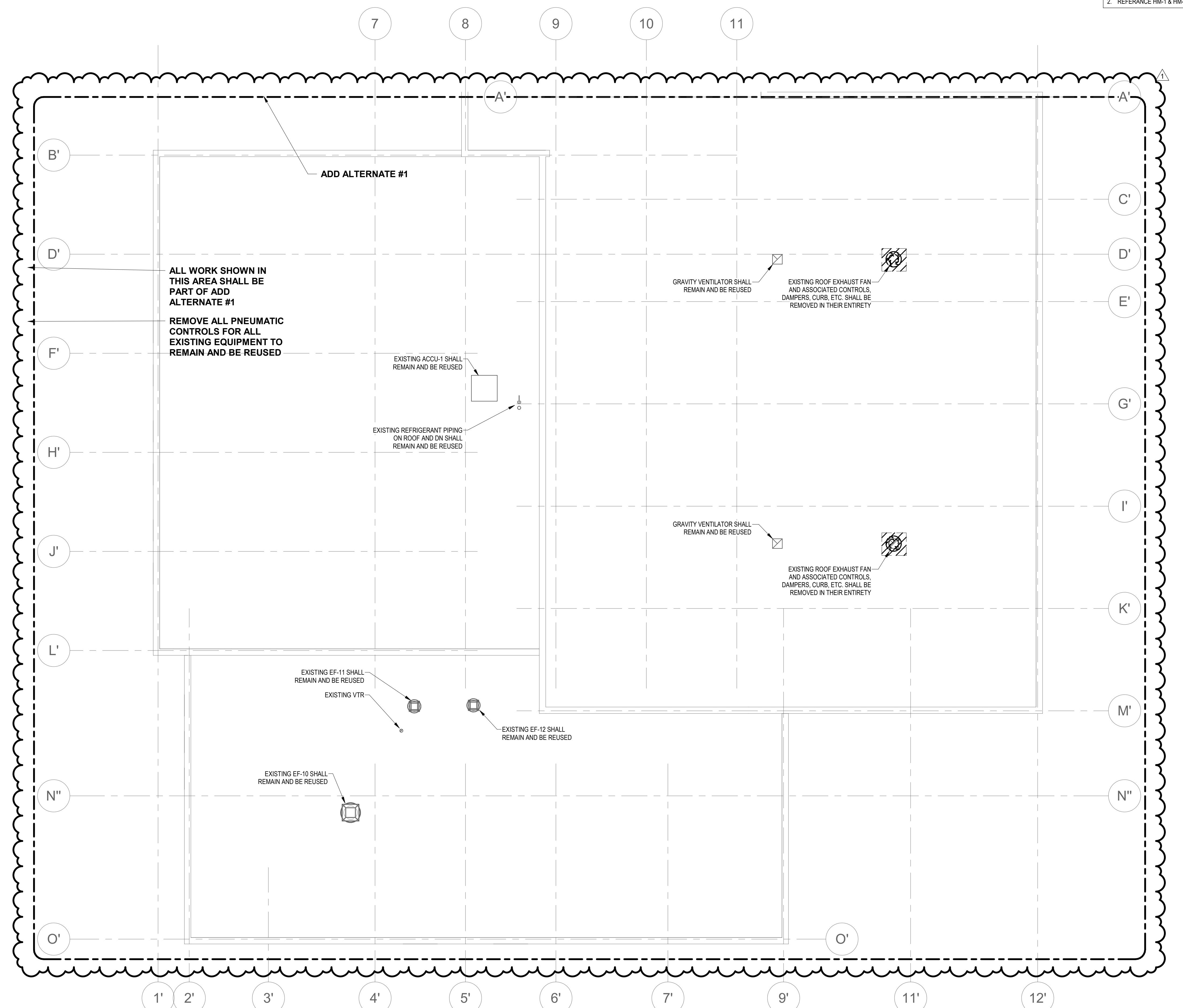
Sheet Number:

HD103A

GENERAL NOTES

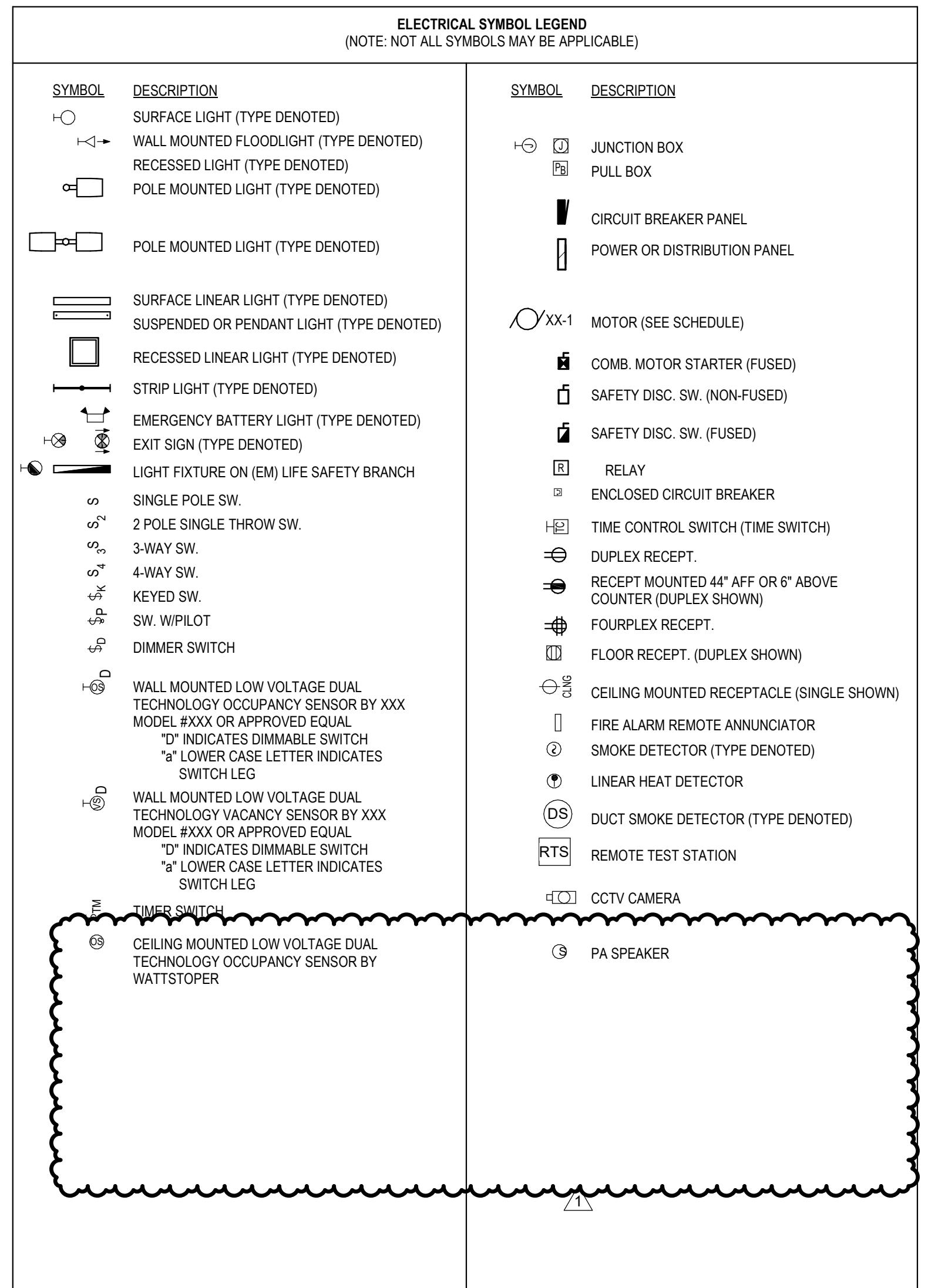
1. REMOVE ALL OF THE EXISTING UNIT VENTILATORS AND ASSOCIATED CONTROLS, PIPING, AND SLEEVE (INCLUDING THE OUTSIDE AIR INTAKE GRILLE) IN THEIR ENTIRETY. PATCHING OF THE FLOOR, INTERIOR EXTERIOR WALL AND ROOF SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS.
2. REFERENCE HM-1 & HM-2



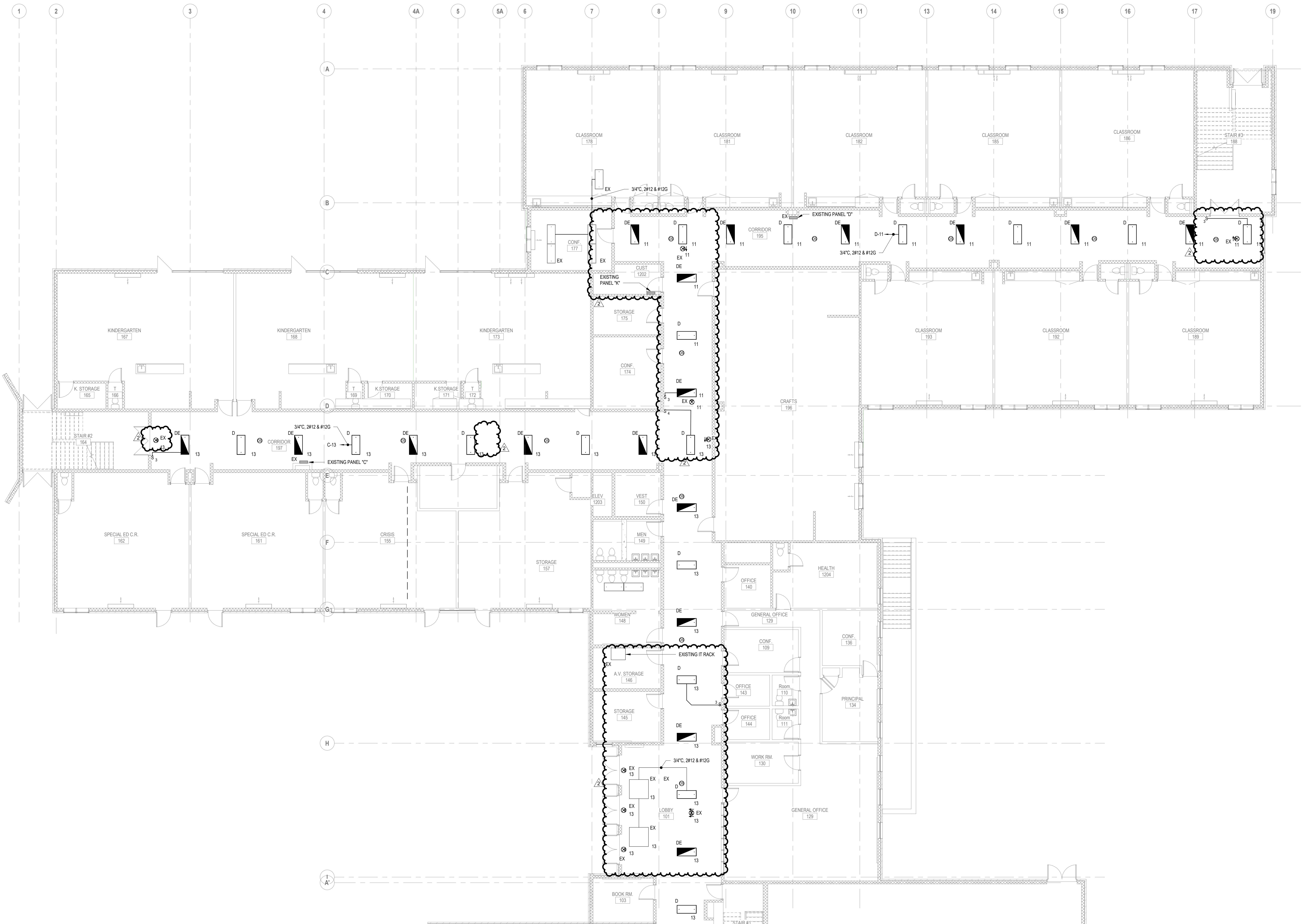




ELECTRICAL ABBREVIATIONS LIST																											
1P	1 POLE (2P, 3P, 4P, ETC.)	AS	AMP SWITCH	CMR	COMPRESSOR	DS	SAFETY DISCONNECT SWITCH	FIXT	FIXTURE	HTR	HEATING	LTG	LIGHTING	MOA	MULTIOUTLET ASSEMBLY	PA	PUBLIC ADDRESS	SYM	SYMMETRICAL	V	VOLT	∠	ANGLE				
A	AMPERE	AT	AMP TRIP	CONN	CONN	DT	DOUBLE THROW	FLR	FLOOR	HTR	HEATER	LTN	LIGHTING	MSP	MOTOR STARTER PANELBOARD	PBL	PULL BOX OR PUSHBUTTON	SYS	SYSTEM	VA	VOLT-AMPERES	◎	AT				
AC	ABOVE COUNTER OR AIR	ATS	AUTOMATIC TRANSFER SWITCH	CONST	CONSTRUCTION	DWG	DRAWING	FLUOR	FLUORESCENT	HV	HIGH VOLTAGE	LV	LOW VOLTAGE	MSB	MAIN SWITCHBOARD	PE	PNEUMATIC ELECTRIC	RTU	ROOF TOP UNIT	VDT	VIDEO DISPLAY TERMINAL	△	DELTA				
ACG	ACG	ACG	AUTOMATIC	CONT	CONTINUATION OR CONTINUOUS	EC	EC	EMERGENCY CONTRACTOR	FU	FUSE	FU	FUSE	MAX	MAXIMUM	MAG	MOUNT	PED	PEDESTAL	SC	SURFACE CONDUIT	TEL	TELEPHONE	·	FEET			
ADG	ADG	ADG	ADG	CONTR	CONTRACTOR	CONTR	CONTR	HVAC	HVAC	HVAC	HVAC	CONT	CONTINUOUS	MTC	MOTORISED CONDUIT	TERM	TERM	TELE	TELEDATA/PHONE/DATA	VERT	VERTICAL	·	INCHES				
AO	AUTOMATIC CEILING	AUX	AUXILIARY	CONV	CONVENTOR	ELEV	ELEVATOR	GA	GAUGE	HWP	HIGH WATER PUMP	EM	EMERGENCY	GAL	GALLOON	IC	INTERMITTENT CAPACITY	MTR	MOTOR, MOTORIZED	PIV	PIVOT INDICATING VALVE	WFD	WIRELESS FREQUENCY DRIVE	·	NUMBER		
AO	AUTOMATIC DOOR OPENER	AV	AUDIO VISUAL	CONV	CONVENTOR	CRF	CIRCULATING PUMP	EM	EMERGENCY	EM	EMERGENCY	EM	EMERGENCY	MTC	MOTORISED CONTRACTOR	PNL	NEARLY CLOSE	SHT	SWING	TL	TWIST LOCK	W	WATT	Ø	PHASE		
AFF	ABOVE FINISHED FLOOR	BATT	BATTERY	CRT	CATHODE-RAY TUBE	EMS	ENERGY MANAGEMENT SYSTEM	Galv	Galvanized	IG	ISOLATED GROUND	MCB	MAIN CIRCUIT BREAKER	N.C.	NEARLY CLOSE	PNL	POLAR NEUTRAL	TSTAT	TERMOSTAT	W/	WITH	C	CENTER LINE				
AGF	ABOVE FINISHED GRADE	BDG	BOARD	BOAR	BOARD	BOAR	BASIC PNEUMATIC	BOAR	BOARD	BOAR	BASIC PNEUMATIC	BOAR	BASIC PNEUMATIC	BOAR	BASIC PNEUMATIC	BOAR	BOARD										
API	APPLIANCE	BLDG	BUILDING	BUS	BUS	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU	BTU
AL	ALUMINUM	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	CABINET	CAB	
AL	ALUMINUM	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG	CAT	CATALOG
AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP
AMP	AMPLIFIER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER	CAB	CIRCUIT BREAKER
ANNUN	ANNUNCIATOR	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION	CCTV	CLOSED CIRCUIT TELEVISION
APP	APPARATUS	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP	APP
AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST	AO-ST
ARCH	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT	ARCHITECT
CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG	CLG
COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB	COMB



DEMOLITION NOTES	
1. THE ELECTRICAL CONTRACTOR WILL WORK IN CONJUNCTION WITH THE GENERAL CONTRACTOR TO DEMOLISH THE EXISTING ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR IS TO DEACTIVATE, DISCONNECT AND REMOVE THOSE SYSTEMS WHICH WILL BE DEMOLISHED. THE ELECTRICAL CONTRACTOR WILL REMOVE AND DISPOSE OF ALL ELECTRICAL SYSTEM MATERIALS INCLUDING DEVICES, FIXTURES, RACEWAYS, CABLE, MOTOR CONTROLS AND APPURTENANCES. SYSTEMS REQUIRING TOTAL AND/OR PARTIAL DEMOLITION SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING:	
A. NORMAL AND EMERGENCY POWER BRANCH CIRCUIT SYSTEM	
B. NORMAL LIGHTING SYSTEM	
C. EMERGENCY AND EXIT LIGHTING SYSTEM	
D. COMMUNICATION SYSTEM	
E. FIRE ALARM SYSTEM	
F. SECURITY SYSTEM	
2. EXISTING SYSTEMS THAT ARE TO REMAIN AND BE PROTECTED DURING DEMOLITION/CONSTRUCTION INCLUDE:	
A. POWER DISTRIBUTION SYSTEM	
B. EXTERIOR LIGHTING SYSTEM	
C. HVAC SYSTEM AND POWER WIRING	
3. SYSTEMS WHICH PASS THROUGH THE AREA BEING DEMOLISHED BUT CONTINUE TO AREAS NOT WITHIN THE DEMOLITION SCOPE ARE TO REMAIN. THE ELECTRICAL CONTRACTOR IS TO IDENTIFY (SPRAY PAINT OR EQUIVALENT) AND PROTECT THOSE SYSTEMS WHICH ARE ACTIVE AND ARE TO REMAIN.	
4. ALL EXISTING CAST IN PLACE RECEPTACLE, PULL, JUNCTION AND OTHER DEVICE BOXES WHICH CANNOT BE REMOVED OR EFFECTIVELY COVERED ARE TO BE PROVIDED WITH FINISHED PLATES AS APPROVED BY THE ARCHITECT	
5. ALL CONDUIT AND WIRE WHICH IS NO LONGER IN USE IS TO BE REMOVED, CONDUIT AND WIRE IS TO BE RELOCATED BACK TO ITS SOURCE OR NEAREST DEVICE WHICH IS SCHEDULED TO REMAIN. COORDINATE THE REMOVAL OF ALL COMMUNICATIONS CONDUIT AND WIRE WITH THE COMMUNICATIONS CONTRACTOR. FIRE ALARM CABLEING IS TO BE RETURNED TO THE NEAREST DEVICE SCHEDULED TO REMAIN, CONTROL PANEL, TERMINAL CABINET, ETC. UNDER NO CIRCUMSTANCES ARE ABANDONED CONDUIT AND WIRE OR SYSTEM COMPONENTS TO REMAIN.	
6. MAKE ANY NECESSARY RE-CIRCUITING, EXTENSIONS OF EXISTING CIRCUITS AND RELOCATIONS REQUIRED TO PROPERLY RE-ENERGIZE REMAINING EXISTING SERVICES OR EQUIPMENT THAT MAY BE INTERFERED WITH BY NEW CONSTRUCTION, REMOVALS OR RELOCATIONS. ALL SHUTDOWNS TO RELOCATE ACTIVE FEEDERS OR BRANCH CIRCUITS WILL BE PERFORMED ON OFF HOURS AS MUTUALLY AGREED TO WITH THE OWNER.	
7. PRIOR TO REMOVAL OF EQUIPMENT, CONFIRM THAT FEEDER AND BRANCH CIRCUITS ARE NO LONGER ACTIVE. SHOULD IT BE DISCOVERED THE FEEDER OR BRANCH CIRCUITS ARE ACTIVE, NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION.	
8. ELECTRICAL CONTRACTOR IS TO REMOVE ALL LAMPS, BALLASTS AND OTHER ELECTRICAL COMPONENTS CLASSIFIED AS HAZARDOUS MATERIALS. ELECTRICAL CONTRACTOR IS TO OBTAIN THE SERVICES OF A LICENSED HAZARDOUS MATERIALS CONTRACTOR TO DISPOSE OF THE MATERIALS. PROVIDE WRITTEN DOCUMENTATION TO THE OWNER'S REPRESENTATIVE FROM THE HAZARDOUS MATERIALS CONTRACTOR.	
9. ELECTRICAL DEMOLITION ABBREVIATIONS:	
"EX" DENOTES EXISTING EQUIPMENT TO REMAIN. TEMPORARILY SUPPORT CEILING ITEMS AS REQUIRED AND REINSTALL IN NEW CEILING	
"RE" DENOTES EXISTING EQUIPMENT TO BE DISCONNECTED AND RELOCATED. ALL EXISTING CONDUIT AND WIRE SHALL BE REMOVED BACK TO ITS SOURCE AND ALL DEVICES ASSOCIATED WITH THE EXISTING ELECTRICAL DEVICES ASSOCIATED WITH THE EXISTING EQUIPMENT SHALL BE REMOVED AND NEW DEVICES AS SHOWN SHALL BE PROVIDED.	
"NL" DENOTES NEW LOCATION OF RELOCATED EXISTING EQUIPMENT.	
"RE" DENOTES EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED. ALL EXISTING CONDUIT AND WIRE SHALL BE REMOVED BACK TO ITS SOURCE AND ALL DEVICES ASSOCIATED WITH THE EQUIPMENT SHALL BE REMOVED.	
"REX" DENOTES EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED. ALL EXIST	

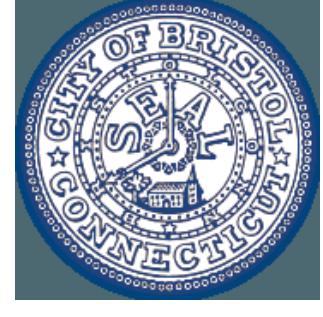


1 Overall Lighting Plan-01-Area A
E101 1/8" = 1'-0"

E101 1/8" = 1'-0"

ING NOTE :

REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES



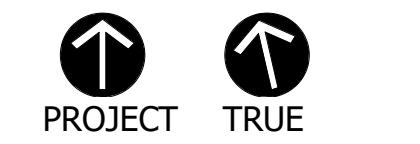
VAC SYSTEM UPGRADES
AT SOUTH SIDE
ELEMENTARY SCHOOL



As a result, the *labeled* and *unlabeled* data are used to learn a function f that maps the input x to the output y . The function f is learned by a learning algorithm, such as a neural network, that takes the labeled data as input and tries to minimize the error between the predicted output and the true output. The learned function f is then used to predict the output for the unlabeled data, which is used to identify the objects in the image.

Dimensions:	
Date	Description
4/15/20	ADDENDUM #1
4/23/20	ADDENDUM #2

For: BID SET



SCALE: AS NOTED

04/02/2020

Entered By: MK

Reviewed By: DNM

Approved By: RFM

Project No: 2170808

ing Title:

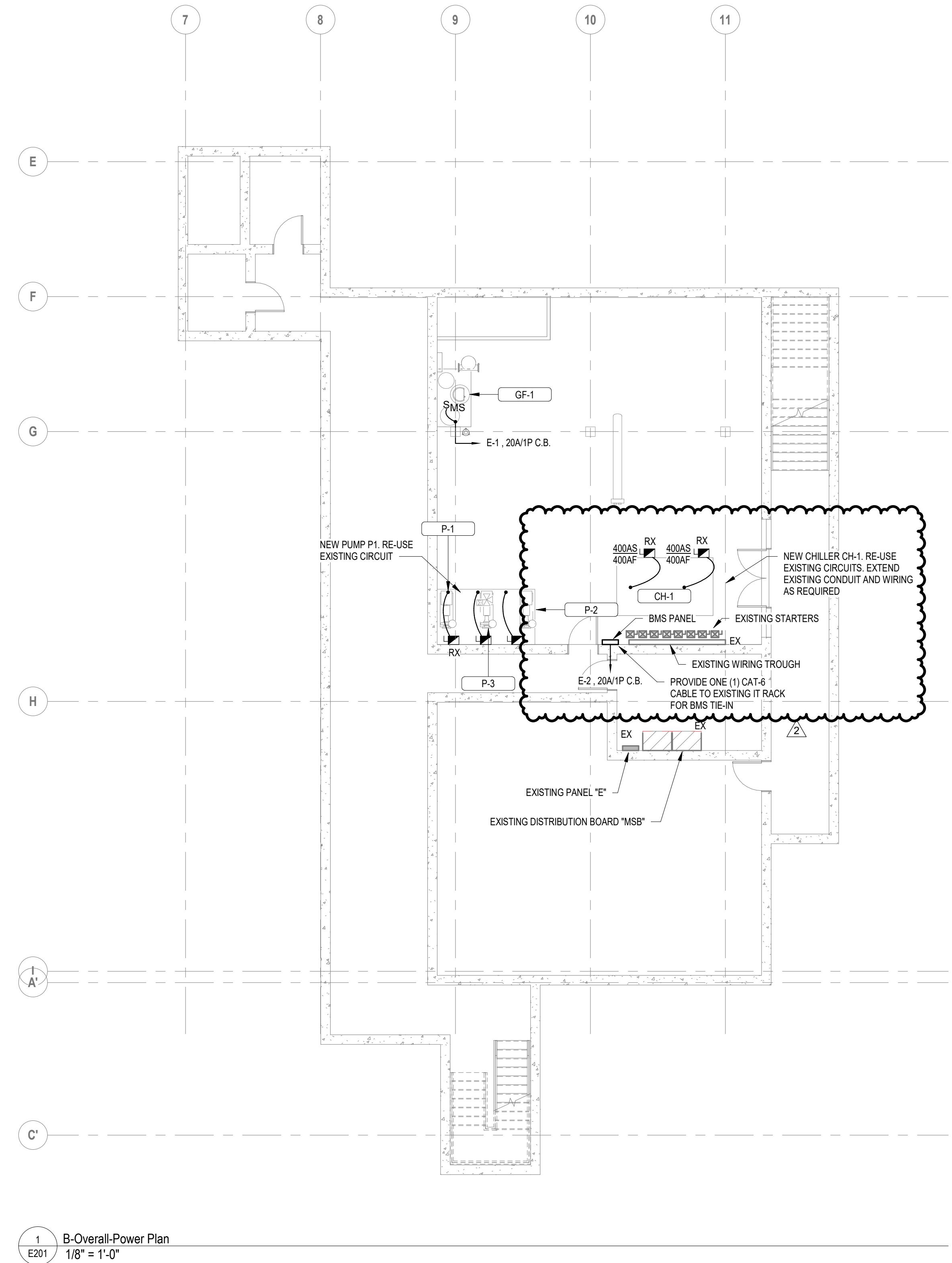
LEVEL 1 LIGHTING PLAN PART A

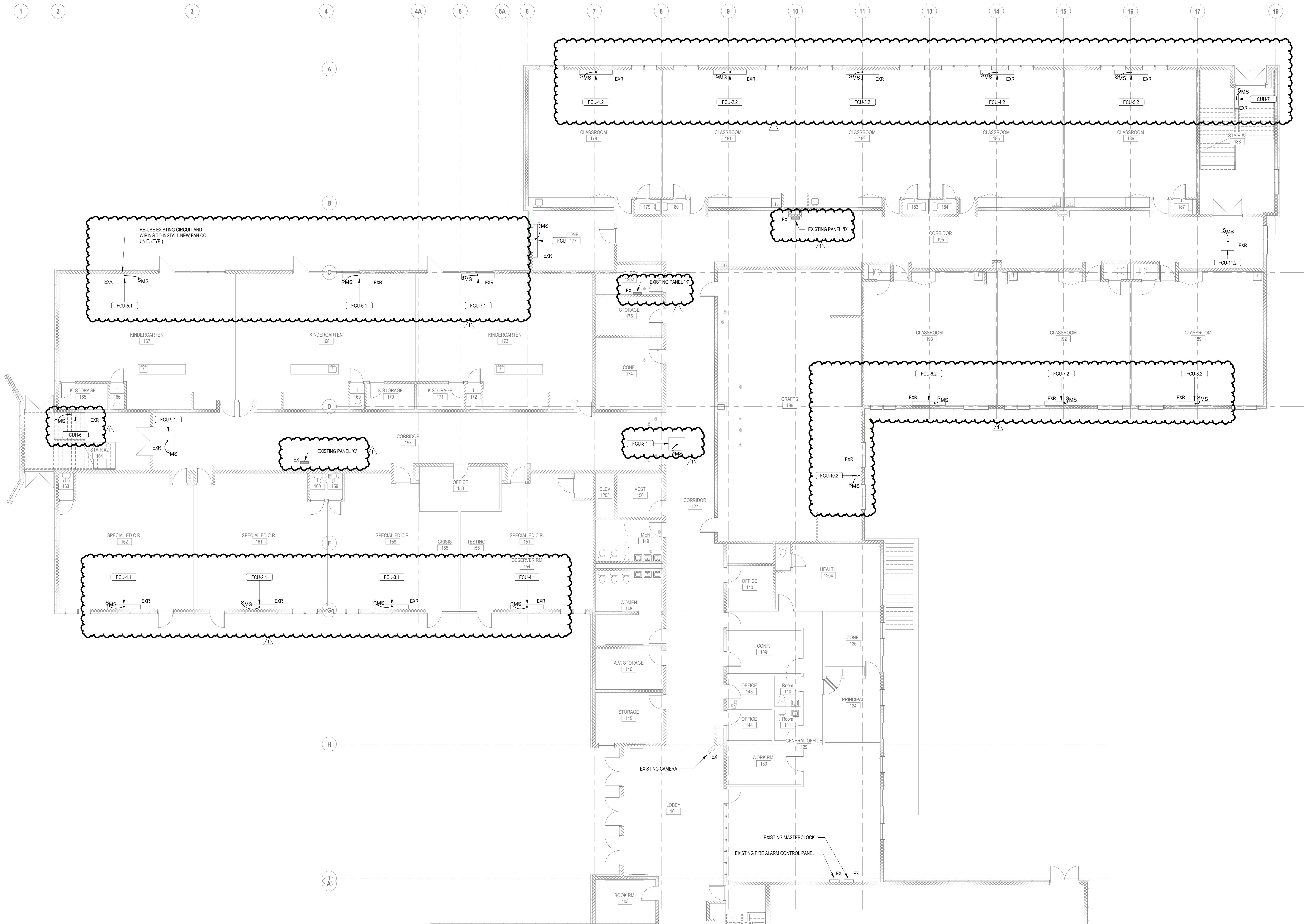
Part Number:

E101



DRAWING NOTE:
1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES
ALTERNATE NOTE:
1. ALL WORK INCLUDED IN THIS DRAWING SHALL BE INCLUDED AS PART OF ALTERNATE 1

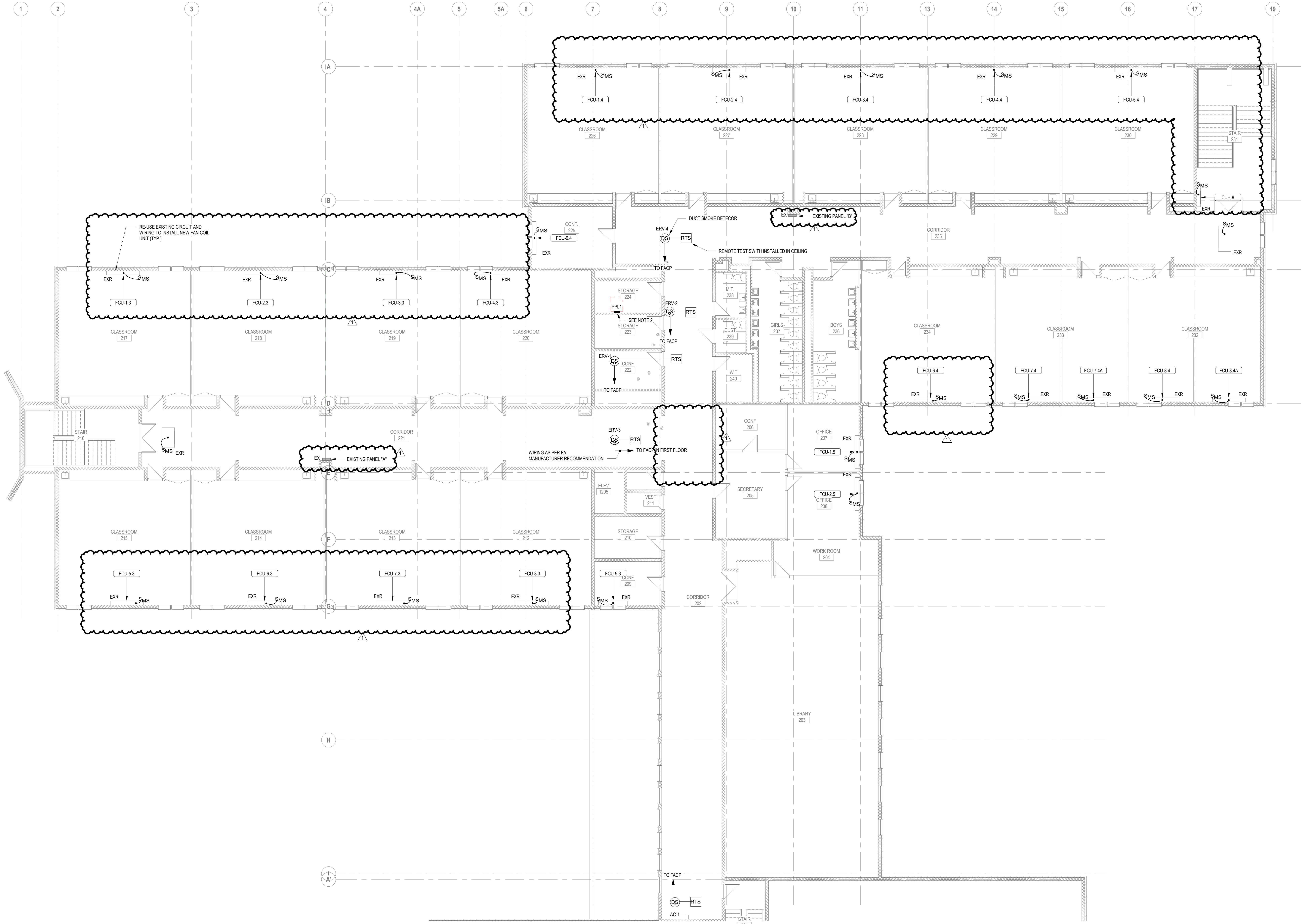


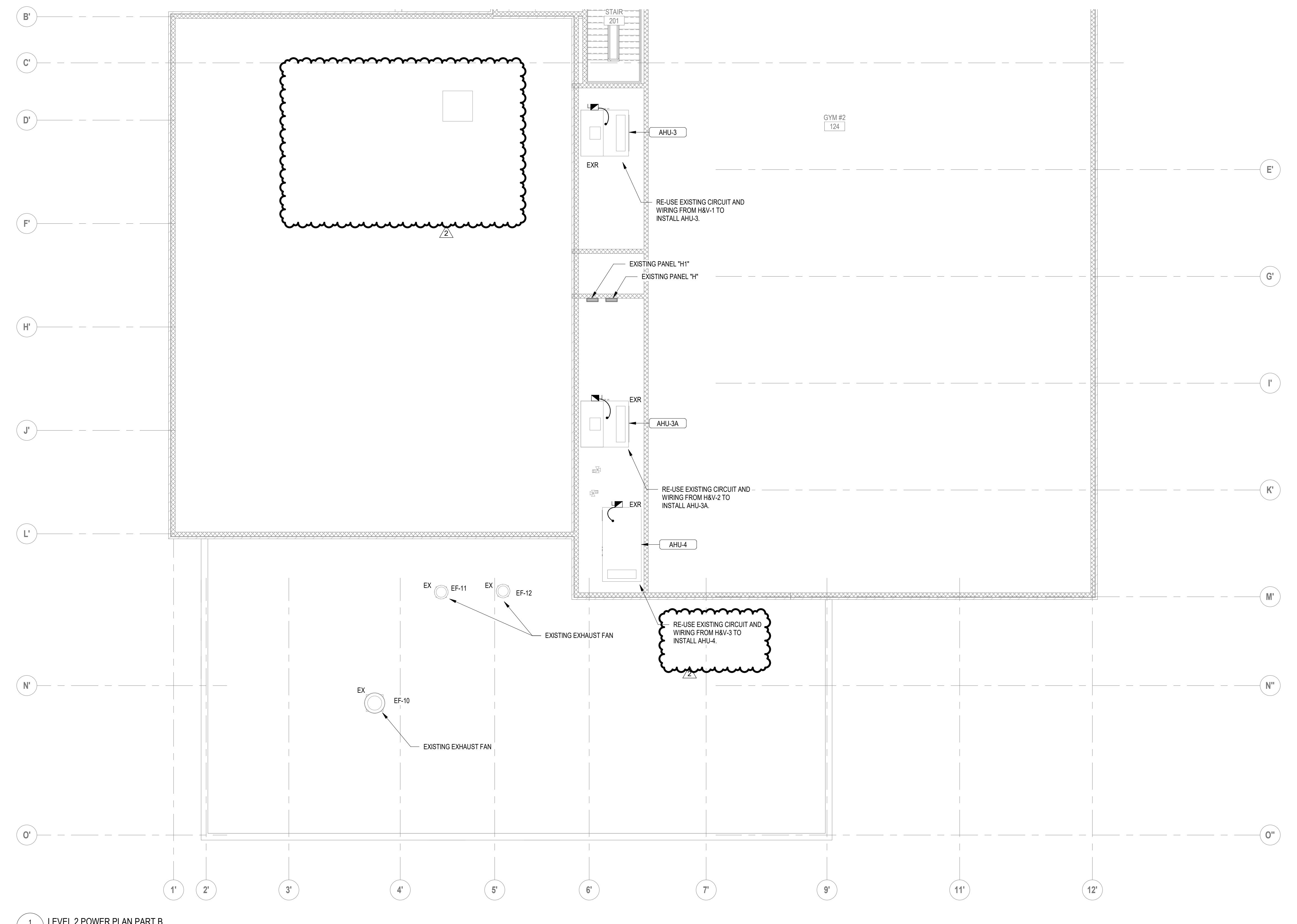




DRAWING NOTE:
1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES

ALTERNATE NOTE:
1. ALL WORK INCLUDED IN THIS DRAWING SHALL BE INCLUDED AS PART OF ALTERNATE 1



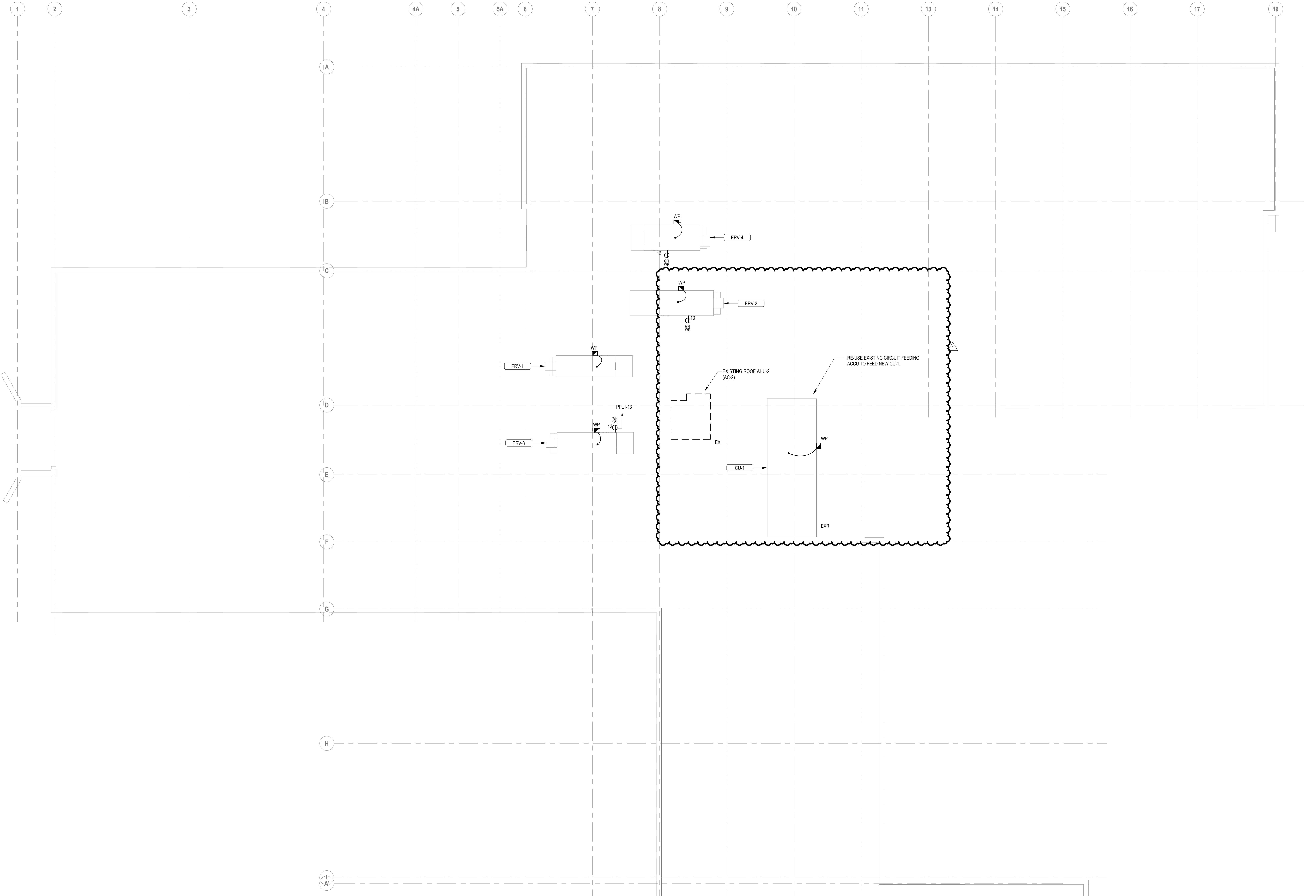


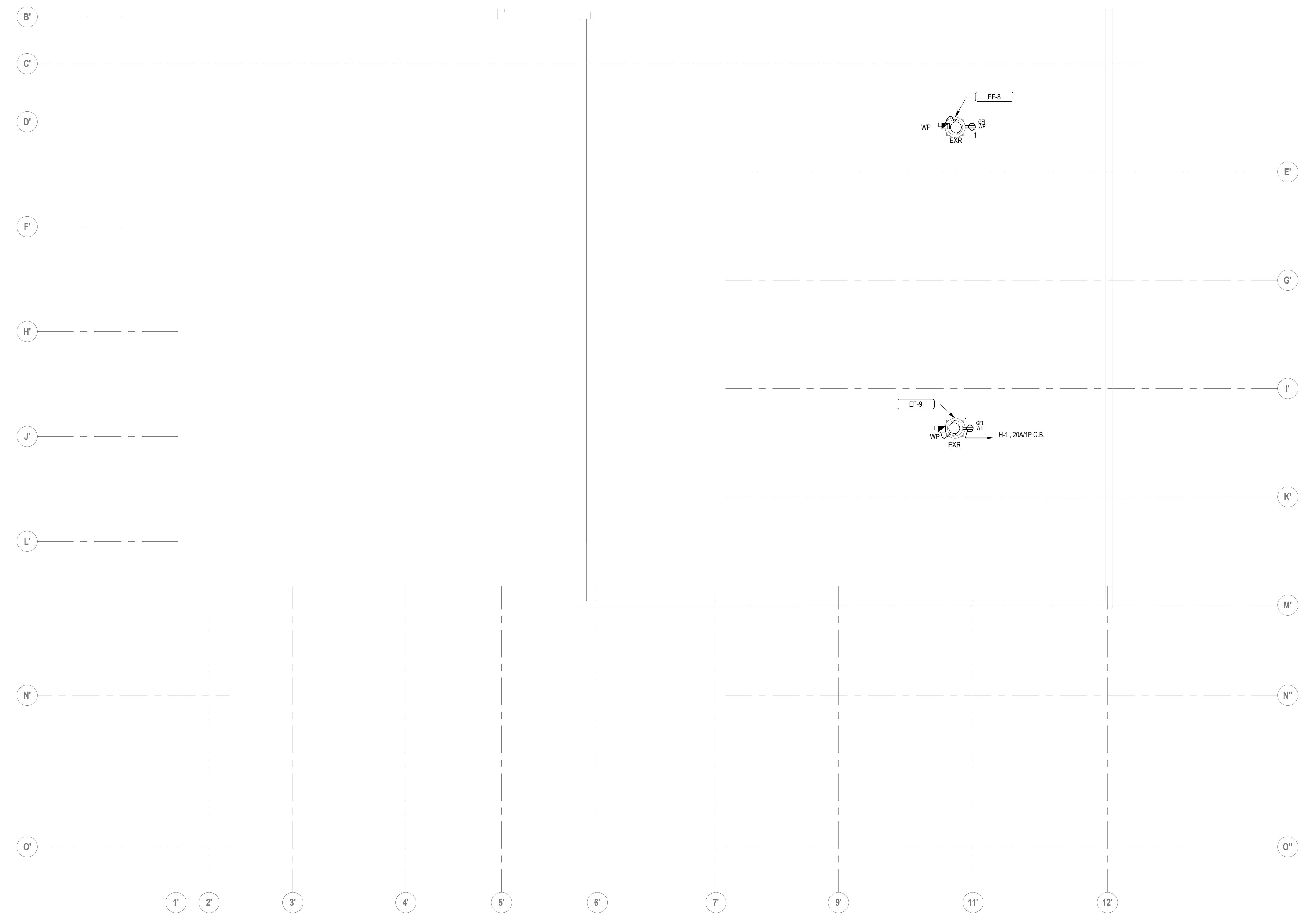
DRAWING NOTE:

1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR TO PROVIDE SUPPORT FOR EXISTING TO REMAIN DEVICES.

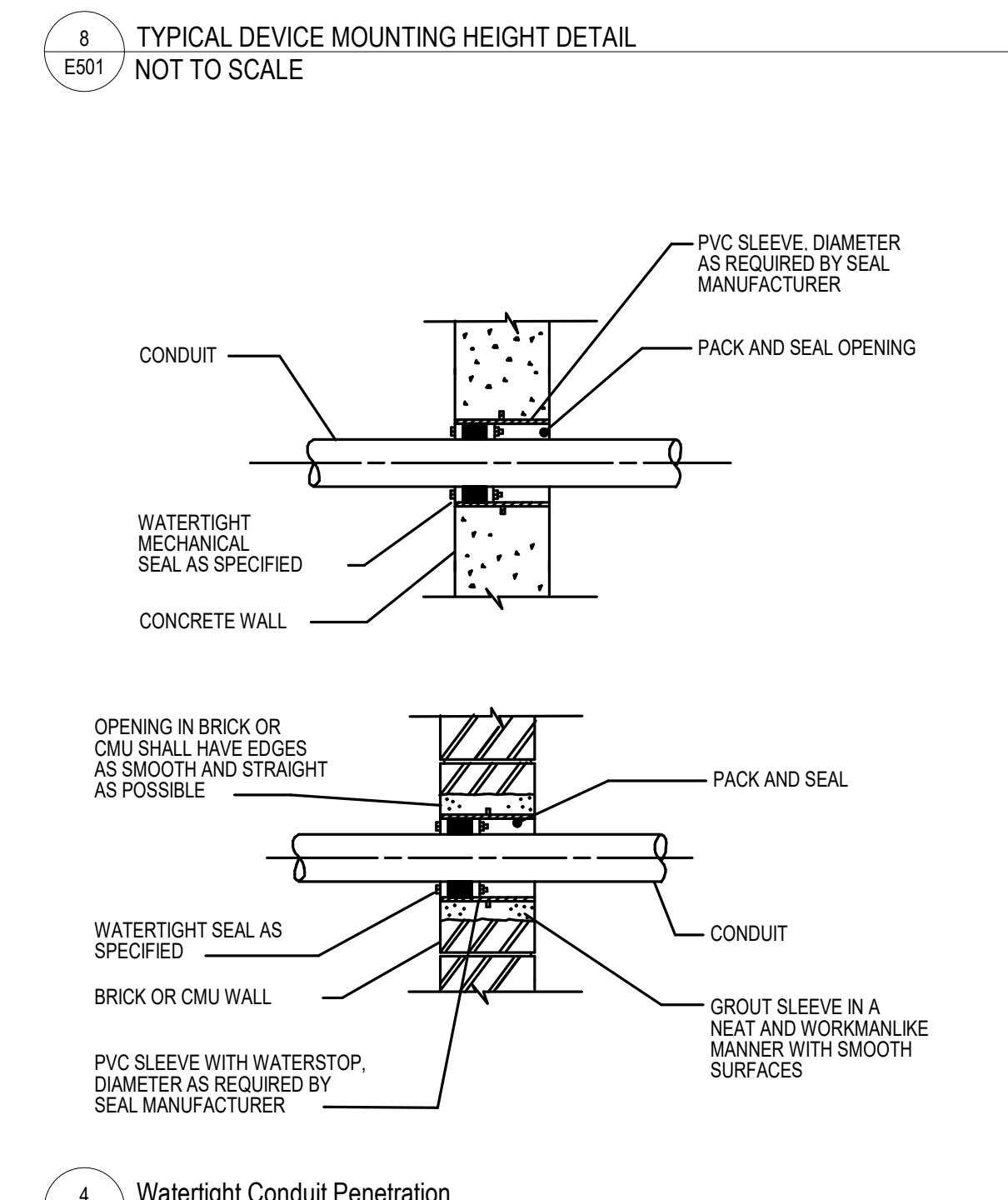
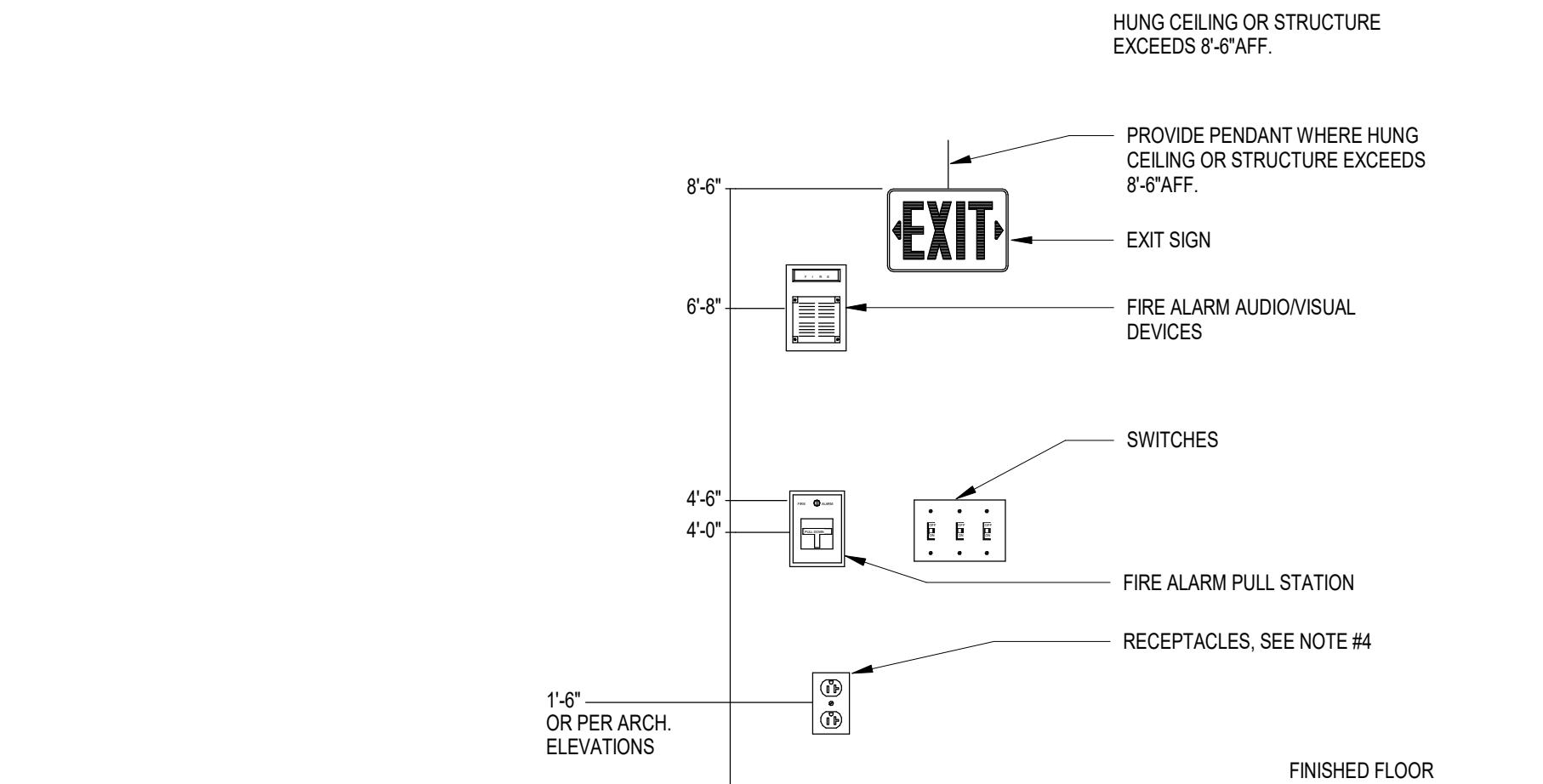
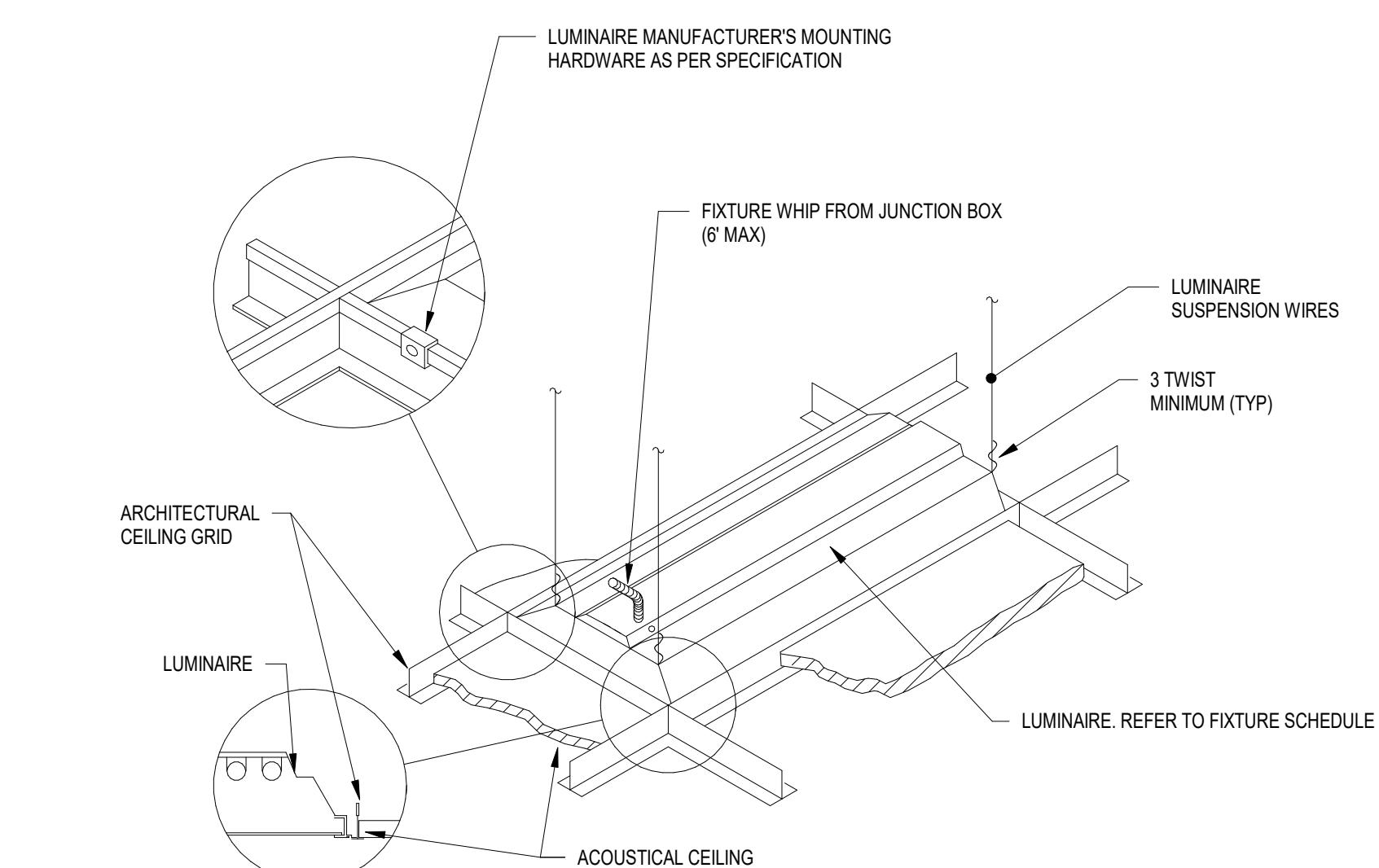
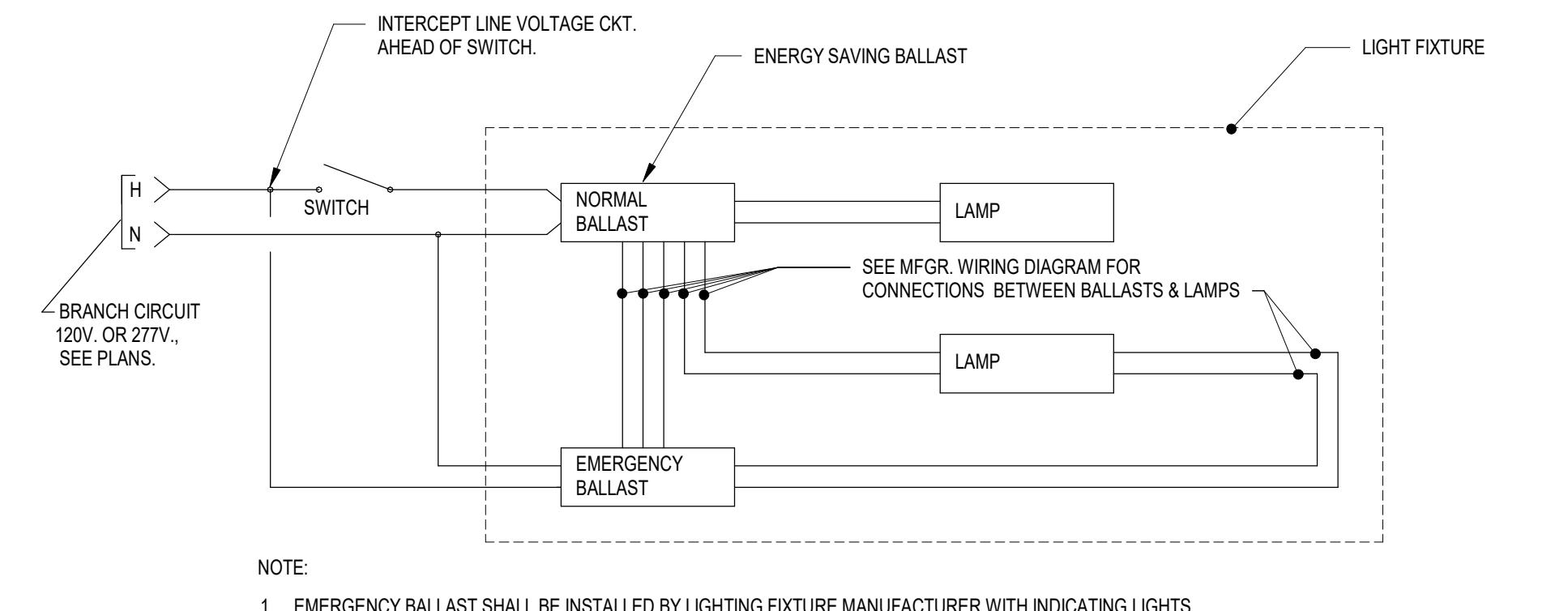
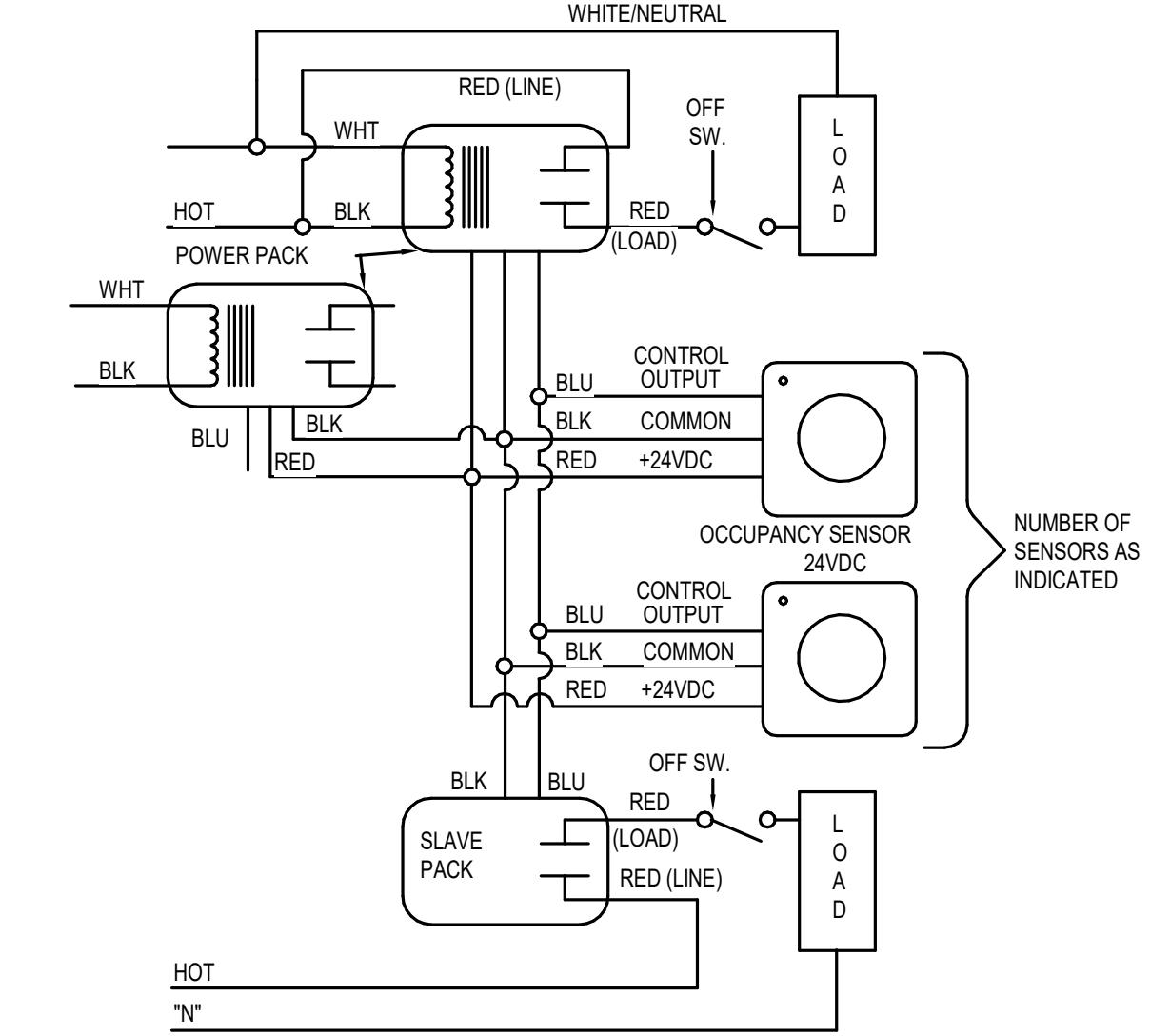
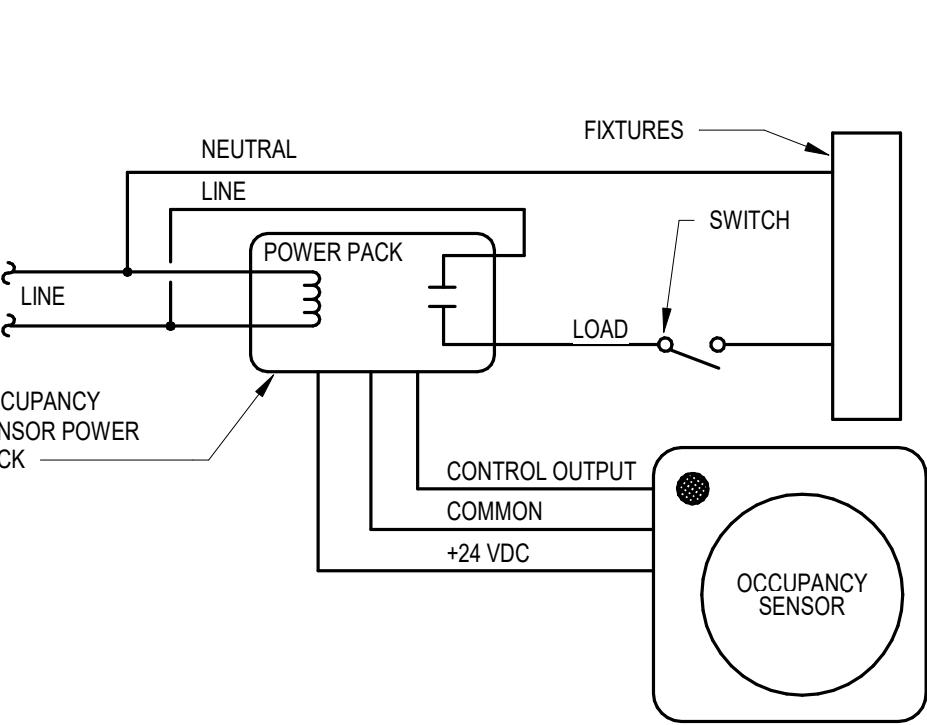
ALTERNATE NOTE:

1. ALL WORK INCLUDED IN THIS DRAWING SHALL BE INCLUDED AS PART OF ALTERNATE 1





DRAWING NOTE:
1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES
ALTERNATE NOTE:
1. ALL WORK INCLUDED IN THIS DRAWING SHALL BE INCLUDED AS PART OF ALTERNATE 1



Issued For:	BID SET	
0' 4' 8' 16'	SCALE: AS NOTED	
Date:	04/02/2020	
Drawn By:	MK	
Reviewed By:	DNM	
Approved By:	RFM	
W&S Project No:	2170808	

LIGHTING FIXTURE SCHEDULE									
Type	Description	Manufacturer	Catalog Number	No. of Lamps	Lamp Type	Mounting	Voltage	Load (Watts)	Notes
D	2' X 4' LED RECESSED LIGHT FIXTURE	METALUX	24 CZ-LD5-35-UNV-L835-CD1-U	-	LED/ 3321 LUMENS/ 3500K	RECESSED GRID	120	25	
DE	2' X 4' EMERGENCY LED RECESSED LIGHT FIXTURE	METALUX	24 CZ-LD5-35-UNV-L835-CD1-U	-	LED/ 3321 LUMENS/ 3500K	RECESSED GRID	120	25	NOTE 1
X1	LED EXIT SIGN. MOUNTING, NUMBER OF FACES AND ARROWS AS SHOWN ON FLOOR PLANS	EMERGI-LITE	WPREMDNR	-	LED	UNIVERSAL	120	2.5	

Panel ID: PPL1	Voltage: 208Y/120	Phase/Wire: 3/4	Fed From: MSB	Location: STORAGE 224	MCB Rating: 100.0 A	A.I.C. Rating: 10,000 AMPS SYMMETRICAL	Manufacturer:		
CKT	DESCRIPTION	CB Size	Poles	A	B	C	CB Size	DESCRIPTION	CKT
1	ERV-1	30 A	3	1.7	1.7			ERV-3	2
3					1.7	1.7			4
5						1.7	1.7		6
7	ERV-2	45 A	3	2.5	2.5			ERV-4	8
9					2.5	2.5			10
11						2.5	2.5		12
13	RCPT	20 A	1	0.5	0.0			SPARE	14
15	SPARE	20 A	1		0.0	0.0			16
17	SPARE	20 A	1			0.0	0.0		18
19	SPACE	--	--	0.0	0.0			SPACE	20
21	SPACE	--	--		0.0	0.0		SPACE	22
23	SPACE	--	--			0.0	0.0	SPACE	24
25	SPACE	--	--	0.0	0.0			SPACE	26
27	SPACE	--	--		0.0	0.0		SPACE	28
29	SPACE	--	--			0.0	0.0	SPACE	30
	Total kVA:	0.0 kVA		8.4 kVA		8.4 kVA			



The seal of the City of Bristol, Connecticut. It is a circular emblem with a blue background. The outer ring contains the words "CITY OF BRISTOL" at the top and "CONNECTICUT" at the bottom, separated by stars. The inner circle features a central shield with a building, a plow, and a sheaf of wheat. Above the shield is a five-pointed star, and above that is a crest with a plow and a sheaf of wheat. The entire seal is surrounded by a decorative border.

HVAC EQUIPMENT SCHEDULE															
No.	Description	Location		Load		Volt	Phase	Panel	Circuit Number	Conduit & Wire Size	Starter	Control Device	Disconnect	Notes	
		Name	Number	HP	A						Component	Component	Component		
ERV-1	ENERGY RECOVERY VENTILATOR			5.00 hp	14.0 A	4539 W	208 V	3	PPL1	1,3,5	3/4"C., 3#10 & #10G	VFD	-	30AF/30AT	
ERV-2	ENERGY RECOVERY VENTILATOR			7.50 hp	21.1 A	6841 W	208 V	3	PPL1	7,9,11	1"C., 3#8 & #10G	VFD	-	60AF/45AT	
ERV-3	ENERGY RECOVERY VENTILATOR			5.00 hp	14.0 A	4539 W	208 V	3	PPL1	2,4,6	3/4"C., 3#10 & #10G	VFD	-	30AF/30AT	
ERV-4	ENERGY RECOVERY VENTILATOR			7.50 hp	21.1 A	6841 W	208 V	3	PPL1	8,10,12	1"C., 3#8 & #10G	VFD	-	60AF/45AT	
FCU-8.1	FAN COIL UNIT	CORRIDOR	127	0.00 hp	7.7 A	832 W	120 V	1	K	1	3/4"C., 2#12 & #12G	-	-	20A/1P	PROVIDE 20A/1P C.B. IN PANEL K
P-2	PUMP	BIOILER ROOM	013	7.50 hp	24.2 A	7847 W	208 V	3	BASEMENT WIRING TROUGH	1,3,5	1"C., 3#8 & #10G	VFD	-	60AF/60AT	
P-3	PUMP	BIOILER ROOM	013	7.50 hp	24.2 A	7847 W	208 V	3	BASEMENT WIRING TROUGH	2,4,6	1"C., 3#8 & #10G	VFD	-	60AF/60AT	

NOTE: PROVIDE 150A PANEL WITH 100A MCB

The logo for Weston & Sampson Engineers, Inc. It features the word "Weston" in blue, the word "&" in green, and the word "Sampson" in green, all enclosed within a blue circle.

The logo for QA+M architecture features the letters 'QA' in a large blue font, a yellow plus sign, and 'M' in a large blue font. Below this, the word 'architecture' is written in a smaller, orange, sans-serif font. A horizontal orange line is positioned below the word 'architecture'. Below the line, the names 'Quisenberry', 'Arcari', and 'Malik' are listed in blue, orange, and blue respectively, all in a sans-serif font.



The logo for VAN ZELM ENGINEERS features the company name in a large, bold, serif font with a diagonal line through the 'Z'. Below it, 'ENGINEERS' is written in a smaller, all-caps serif font. A horizontal line is positioned above the company name, and another line is below 'ENGINEERS'. Below the logo, the address 'VAN ZELM HEYWOOD & SHADFORD, INC.' is in a smaller serif font, followed by 'CT: 860.284.5064' and 'MA: 617.218.9976'. At the bottom, '10 TALCOTT NOTCH, FARMINGTON, CT 06032 - 1800 Connecticut | Massachusetts | North Carolina' is listed in a smaller serif font.

Revisions:

sued For: BID SET

SCALE: AS NOTED

Date: 04/02/2020

Drawn By: MK

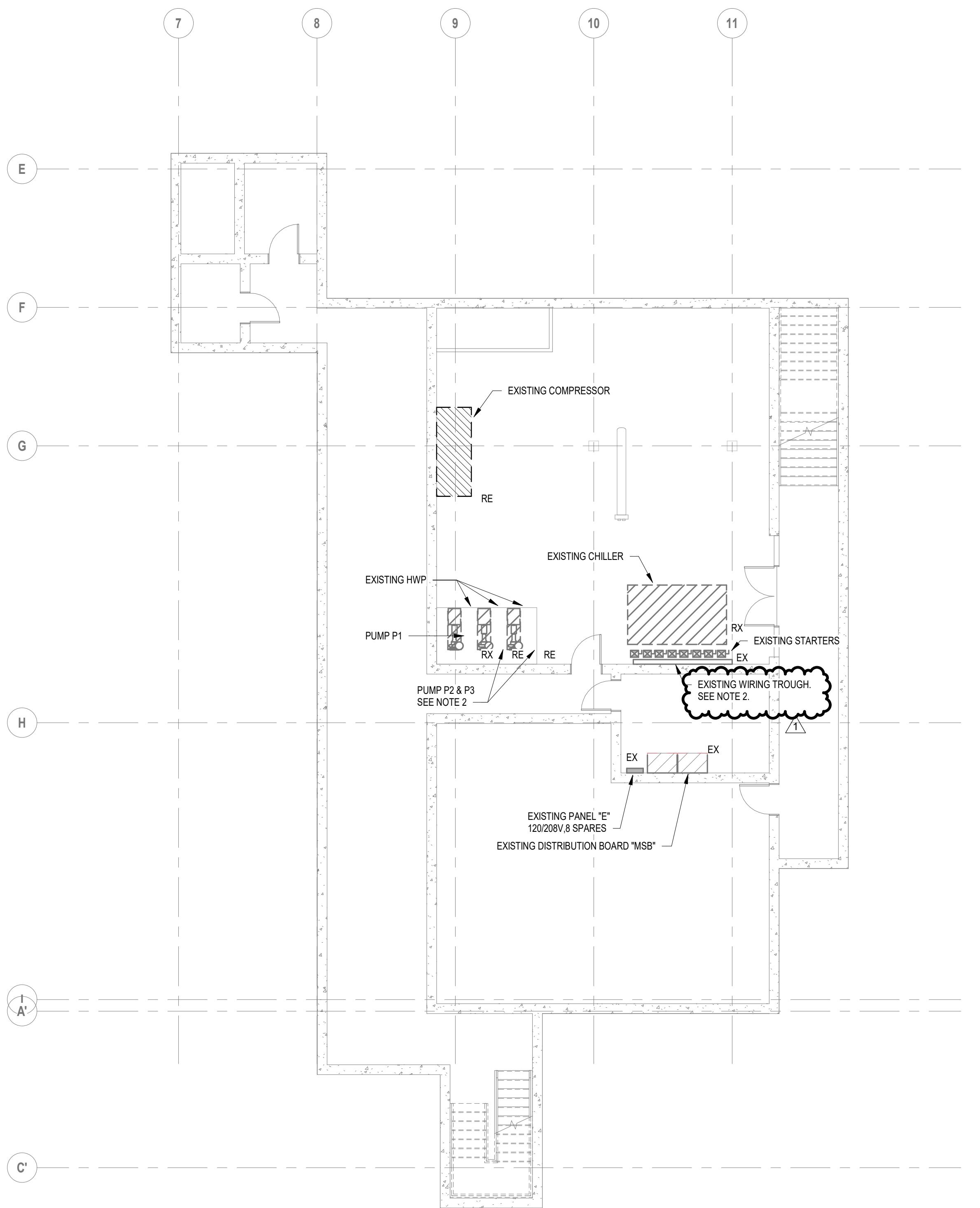
Reviewed By: DNM

Approved By: RFM

V&S Project No: 2170808

Drawing Title:

E601



1 Overall-Demolition Plan-B
ED101 1/8" = 1'-0"

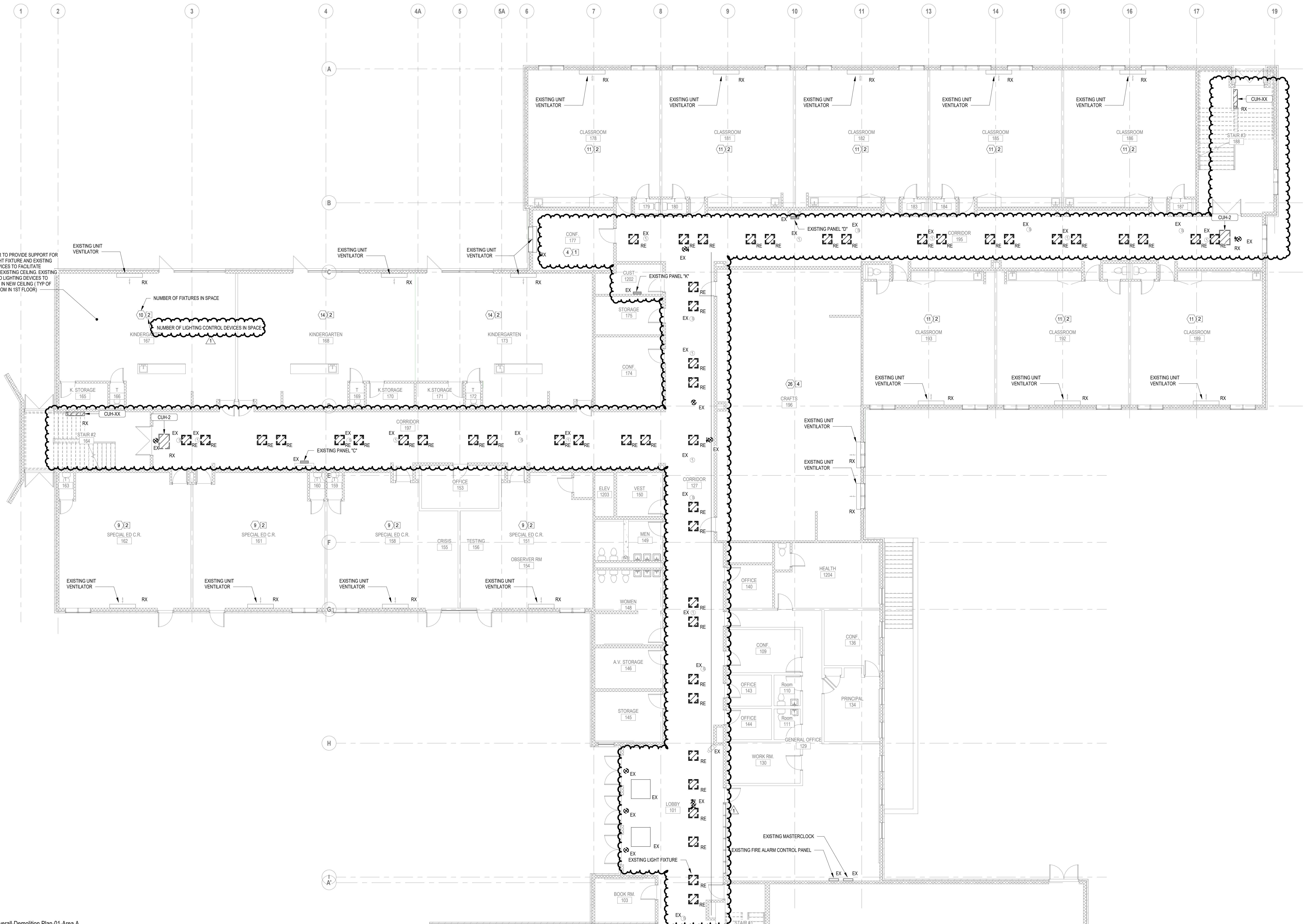
DRAWING NOTE:
1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES
2. DEMO AND REMOVE EXISTING STARTER FOR PUMPS P1, P2, & P3 LOCATED ON
WIRING TROUGH REMOVE BACK TO SOURCE WIRING AND CONDUIT FOR
PUMPS P2 & P3 ONLY.

Drawing Title:

BASEMENT
DEMOLITION PLAN

Sheet Number:

ED101



1
ED102 Overall-Demolition Plan-01-Area A
1/8" = 1'-0"

ED102 1/8" = 1'-0"

NOTES

REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES
CONTRACTOR TO PROVIDE SUPPORT FOR EXISTING TO REMAIN DEVICES.

LEVEL 1 DEMOLITION PLAN PART A

Number:

ED102

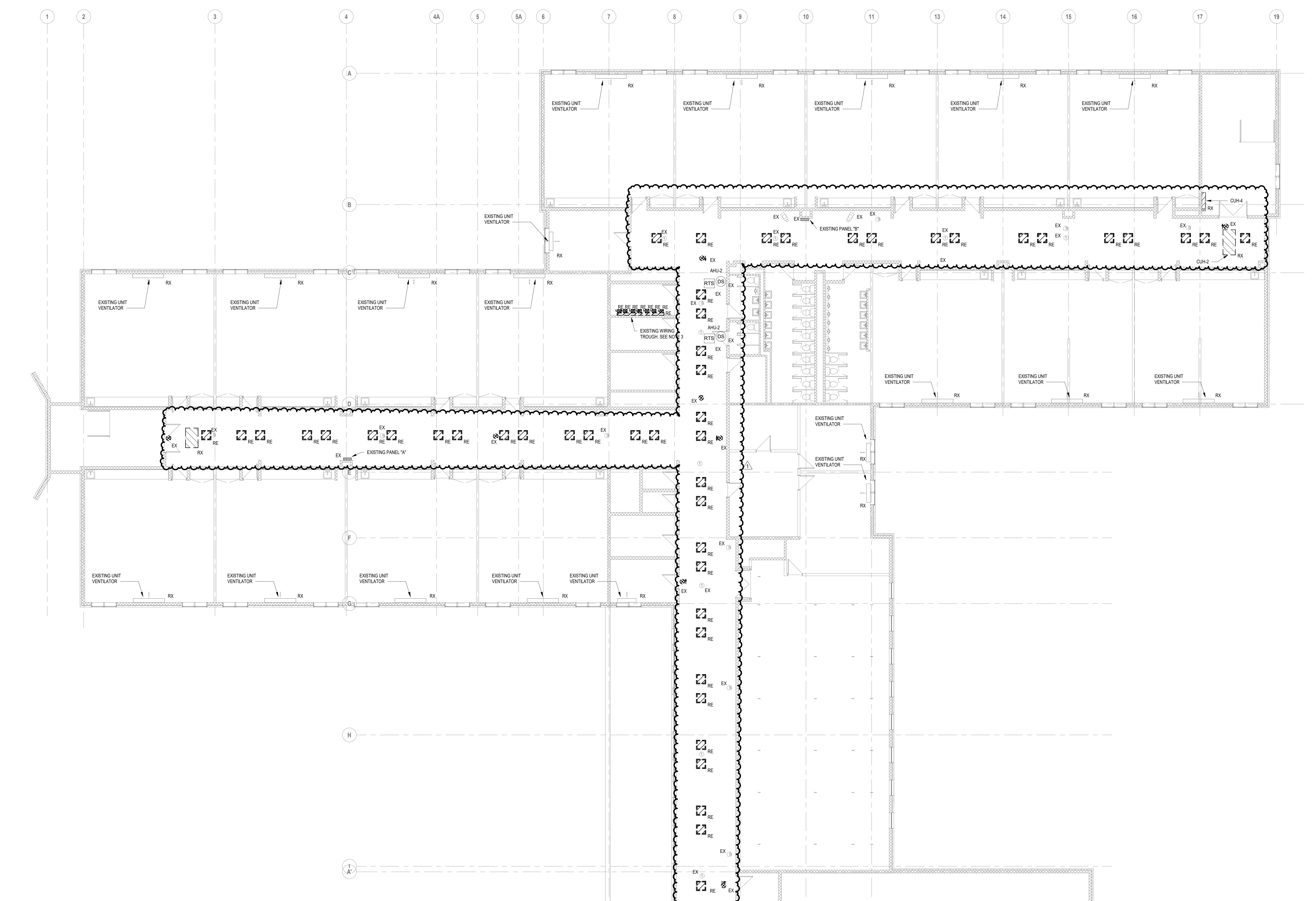


DRAWING NOTE:

1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR TO PROVIDE SUPPORT FOR EXISTING TO REMAIN DEVICES.

ALTERNATE NOTE:

1. ALL WORK INCLUDED IN THIS DRAWING SHALL BE INCLUDED AS PART OF ALTERNATE 1

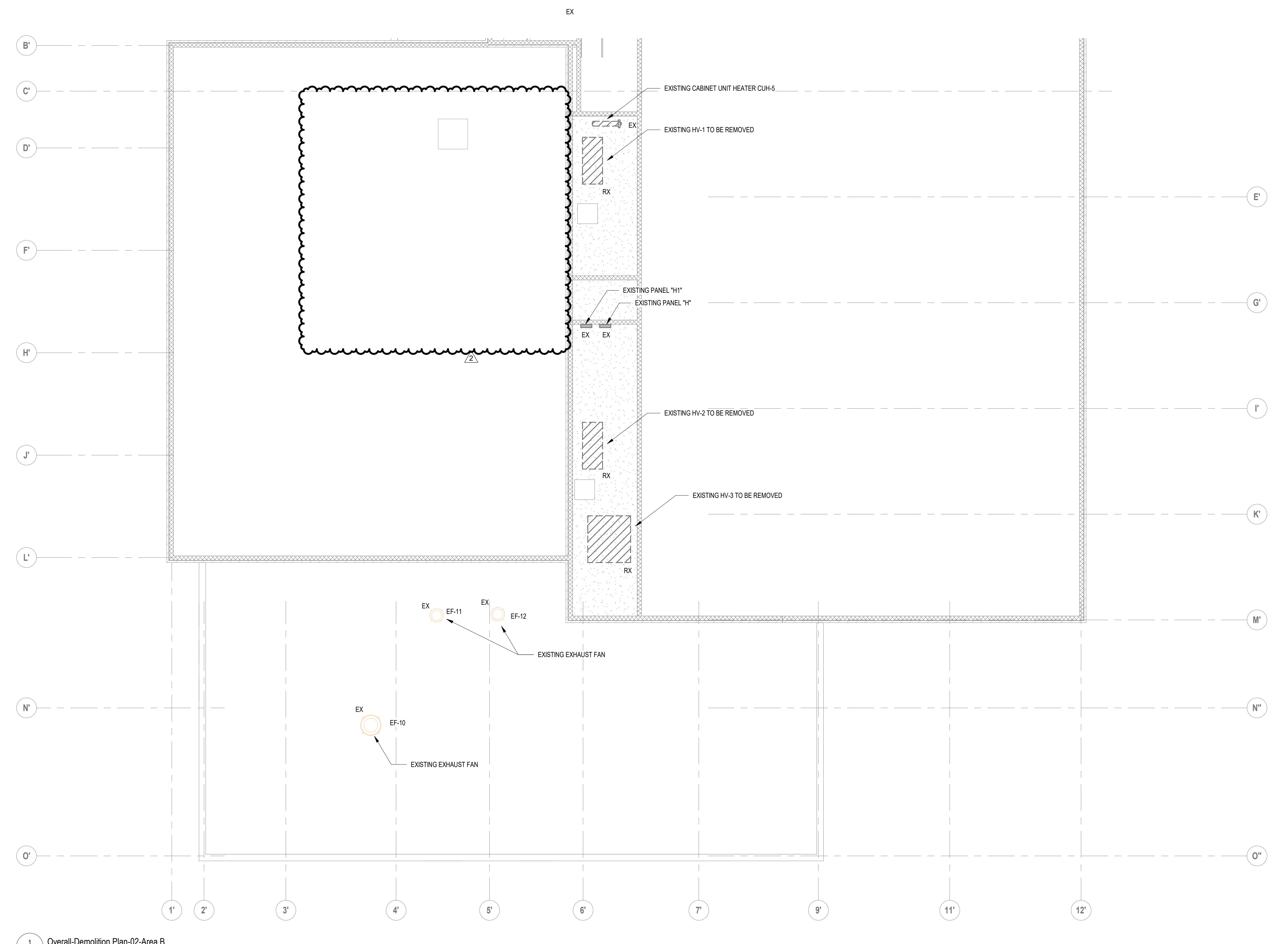


Overall-Demolition Plan-02-Area A
1:8" = 1'-0"

ED104

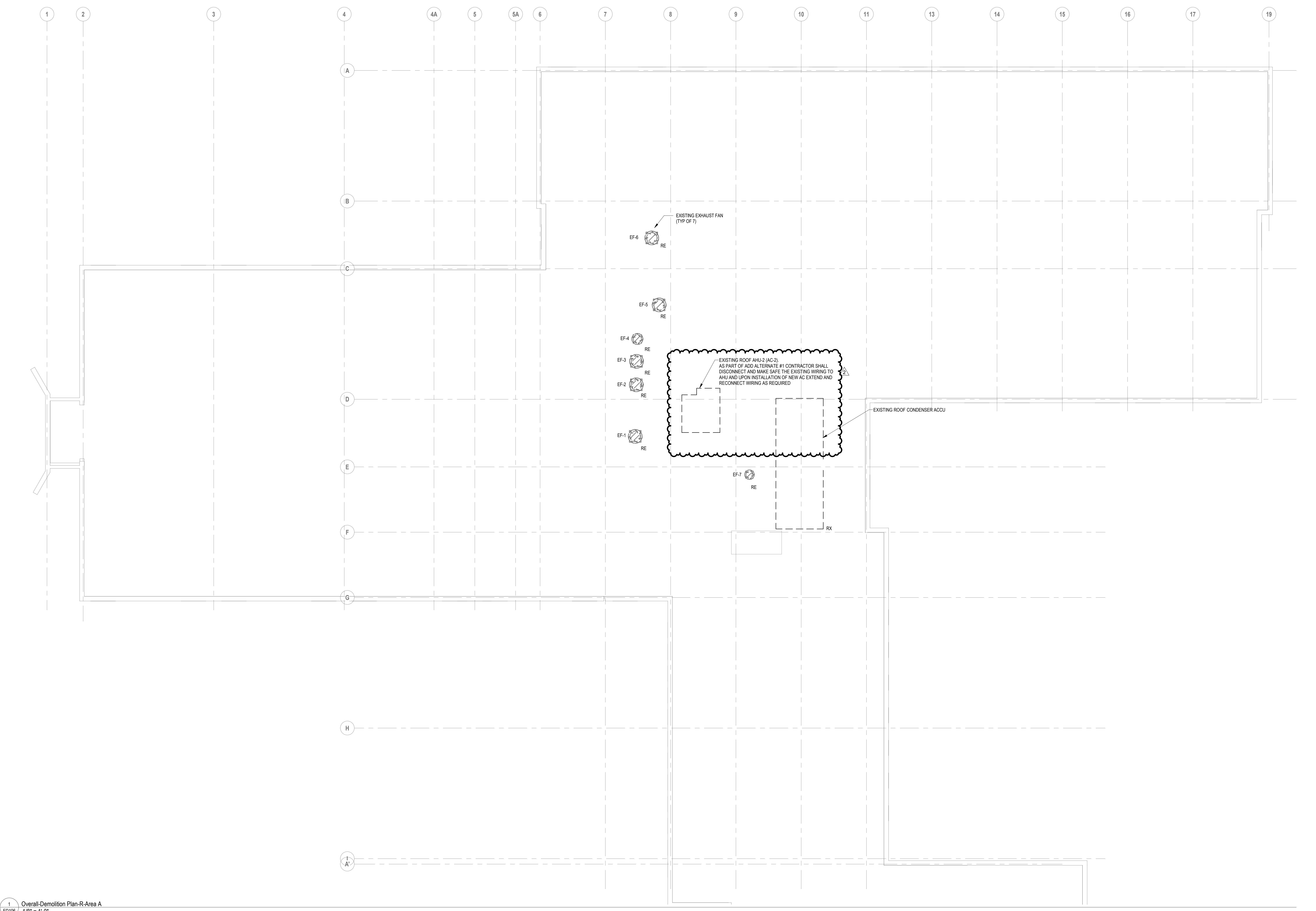
DRAWING NOTE:
1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES
2. CONTRACTOR TO PROVIDE SUPPORT FOR EXISTING TO REMAIN DEVICES
3. DEMO AND REMOVE ALL EXISTING STARTERS/CONNECT FOR E-1 THROUGH E-7 AND MAIN BEING FED FROM THE WIRING TROUGH. REMOVE ALL WIRING FROM WIRING TROUGH TO MSB. REMOVE EXISTING 70A/3P BREAKER IN EXISTING SWITCHBOARD MSB AND REPLACE WITH NEW 100A/3P BREAKER. RUN NEW 4#10 & #6GND IN EXISTING 1-1/2" C TO NEW PANEL PPL.

Sheet Number:



DRAWING NOTE:
1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR TO PROVIDE SUPPORT FOR EXISTING TO REMAIN DEVICES.

ALTERNATE NOTE:
1. ALL WORK INCLUDED IN THIS DRAWING SHALL BE INCLUDED AS PART OF ALTERNATE 1



DRAWING NOTE:

1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES

Project:
CITY OF BRISTOL, CT

HVAC SYSTEM UPDATES
AT SOUTH SIDE
ELEMENTARY SCHOOL
21 Tuttle Rd.
Bristol, CT 06010

Weston & Sampson
Weston & Sampson Engineers, Inc.
100 Foxborough, MA 02035
(508) 698-2034 (800) SAMPSON
www.westonsampson.com

Consultants:
QA+M
architecture
Quisenberry Arcari Malik
199 Scott Swamp Road
Farmington, CT 06032
(860) 677-4594
qamarch.com

EAGLE
Environmental, Inc.
VANZELM
ENGINEERS
VAN ZELM ENVIRONMENTAL & MECHANICAL, INC.
199 Scott Swamp Road
Farmington, CT 06032
(860) 677-4594
Connecticut | Massachusetts | North Carolina

Seal:

Revisions:

Rev	Date	Description
1	04/15/20	ADDENDUM #1

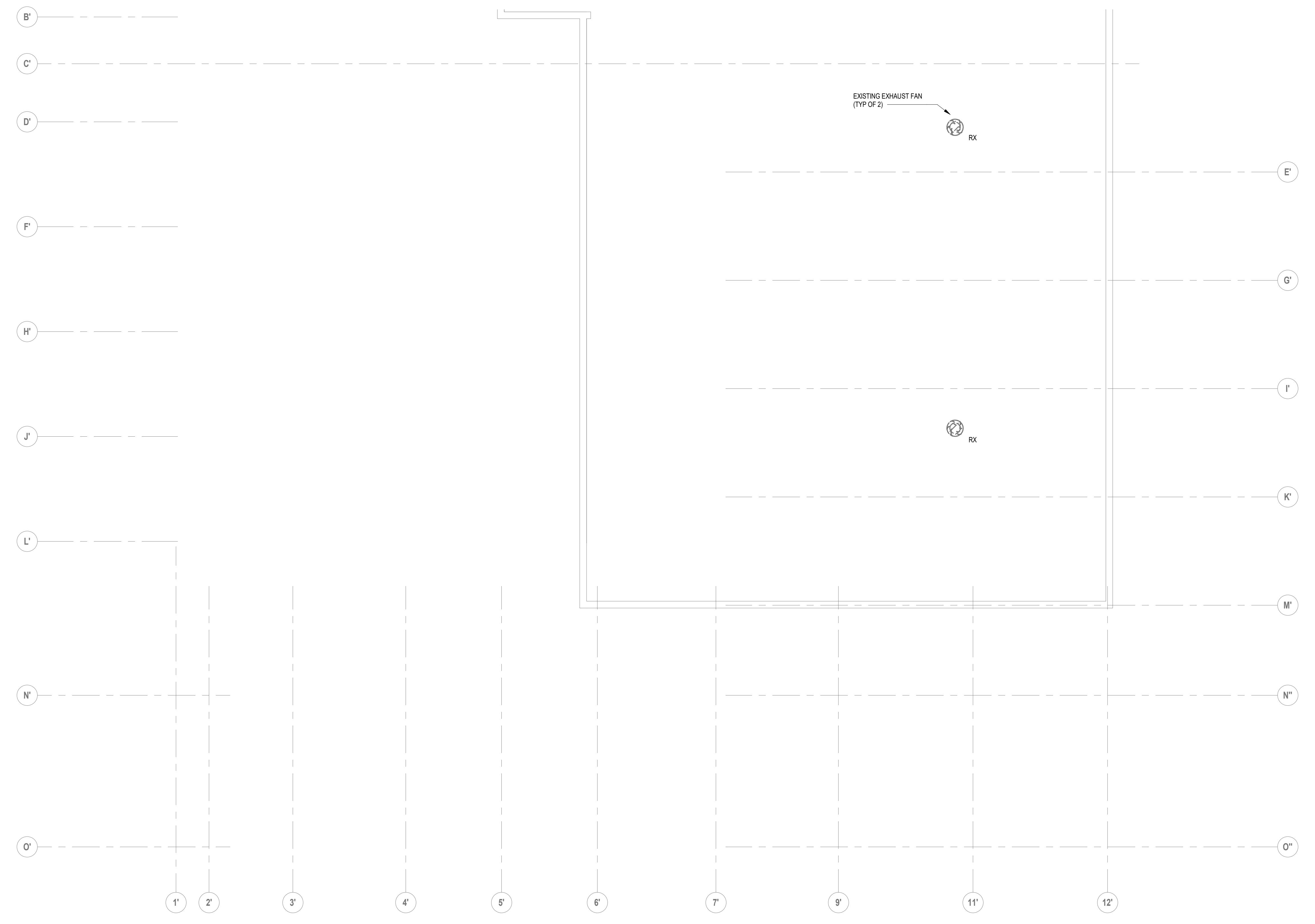
Issued For: BID SET
 

SCALE: AS NOTED
Date: 04/02/2020
Drawn By: MK
Reviewed By: DNM
Approved By: RFM
W&S Project No: 2170808

Drawing Title:
**ROOF
DEMOLITION PLAN
PART B**

Sheet Number:
ED107

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Overall-Demolition Plan-R-Area B
ED107 1/8" = 1'-0"

DRAWING NOTE:
1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES
ALTERNATE NOTE:
1. ALL WORK INCLUDED IN THIS DRAWING SHALL BE INCLUDED AS PART OF ALTERNATE 1

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