

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE UNDERGROUND CONDENSATE DRAIN LINES WITH THE BUILDING'S FOOTERS.

REFERENCE NOTES

- 1-1/2" DIA. INSULATED SCH 40 PVC CONDENSATE DRAIN RISER.
- INSTALL A WALL CLEANOUT BEFORE PENETRATING FLOOR SLAB. SLAB PENETRATION SHALL BE WATER-TIGHT.
- MOUNT UNIT ON EQUIPMENT PAD AND SECURE THE UNIT TO THE PAD. REFER TO DETAIL ON M6.01 FOR MORE INFORMATION. PROVIDE EQUIPMENT TAGS ON CONDENSING UNITS INDICATING THE APARTMENT NUMBER SERVED. TAGS SHALL BE THREE-LAYER PLASTIC WITH ENGRAVED WHITE LETTERS ON A BLACK BACKGROUND.
- MAINTAIN 3'-0" CLEAR IN FRONT OF UNITS ELECTRICAL ACCESS SECTION.
- 1-1/2" DIA SCH 40 PVC CONDENSATE DRAIN PIPE SLOPED DOWNWARDS TO THE POINT OF TERMINATION.
- REFRIGERANT LINES AND CONTROL WIRING ROUTED BY THE CONTRACTOR BETWEEN THE INDOOR AND OUTDOOR UNITS. THE EXTERIOR WALL PENETRATION SHALL BE 12"-18" ABOVE GRADE WITH A FLASHED SHEET METAL WALL CAP SEALED WEATHER-TIGHT. PRIME AND PAINT CAP TO MATCH SURROUNDING WALL.
- 1-1/2" INSULATED CONDENSATE DRAIN PIPE FROM RISER ABOVE. CONTINUE CONCEALED ABOVE THE CEILING AND SLOPED TO THE DRAIN RISER CONCEALED IN THE WALL.
- DOOR INTAKE LOUVER - REFER TO ARCHITECTURAL PLANS.

PERMIT REVIEW STAMP

ISSUE HISTORY

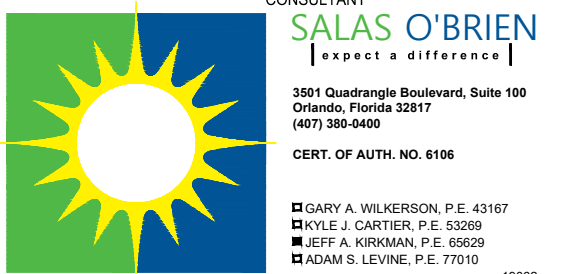
No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

REVISION HISTORY

No.	Date	Description
1	05/06/20	PERMIT COMMENT RESPONSES



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THE ROBERT

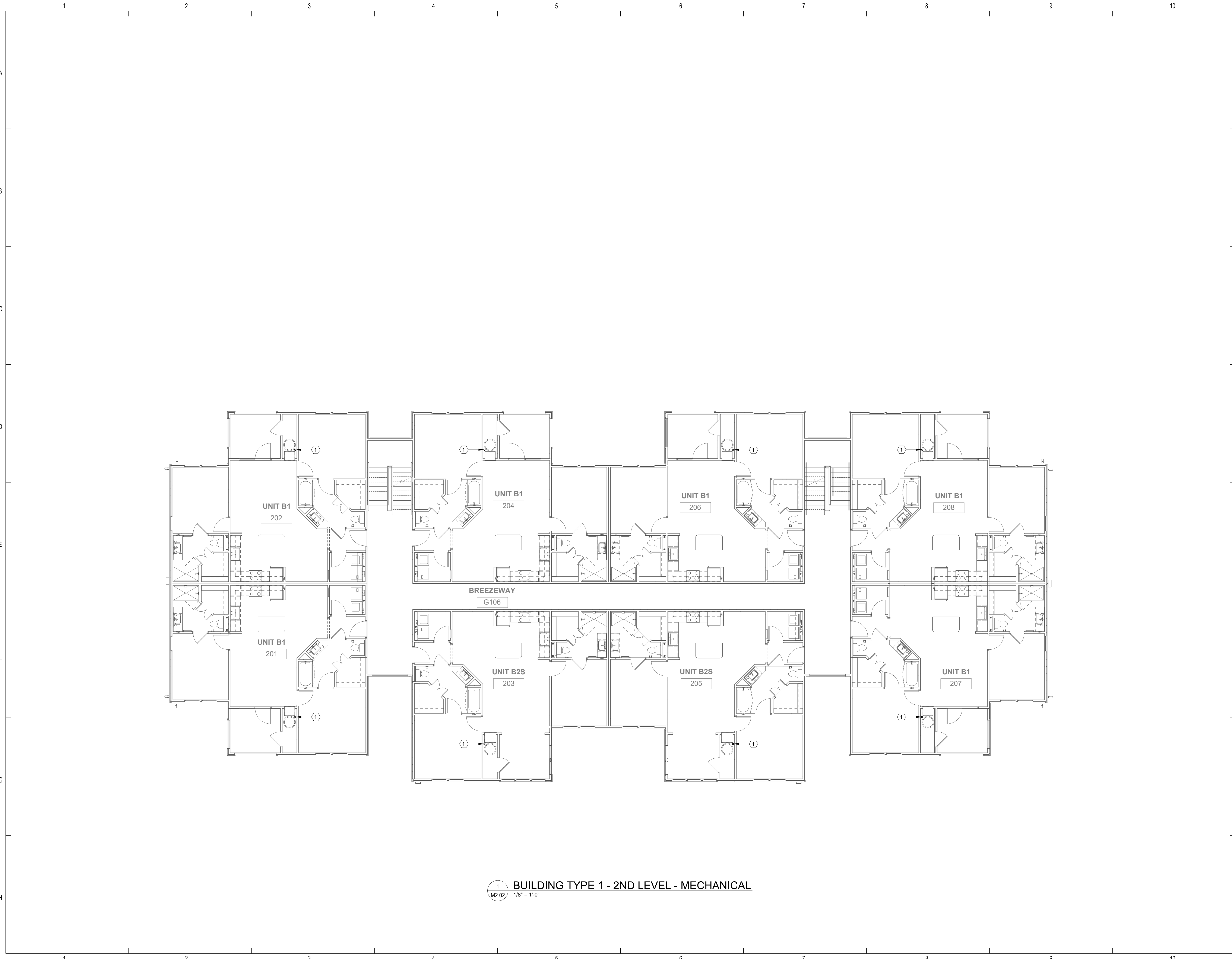
FT. MYERS, FL

BUILDING TYPE 1 - GROUND LEVEL - MECHANICAL

M2.01

Drawn: SWC
Checked: RDP
Approval: JAK
Date: 09/10/2019
Project #: 5582

1 BUILDING TYPE 1 - GROUND LEVEL - MECHANICAL
M2.01 1/8" = 1'-0"



REFERENCE NOTES

- ① 1-1/2" SCHEDULE 40 PVC CONDENSATE DRAIN RISER.

PERMIT REVIEW STAMP

ISSUE HISTORY

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REVISION HISTORY

No.	Date	Description

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Approval:	JAK
Date:	09/10/2019
Project #:	5582

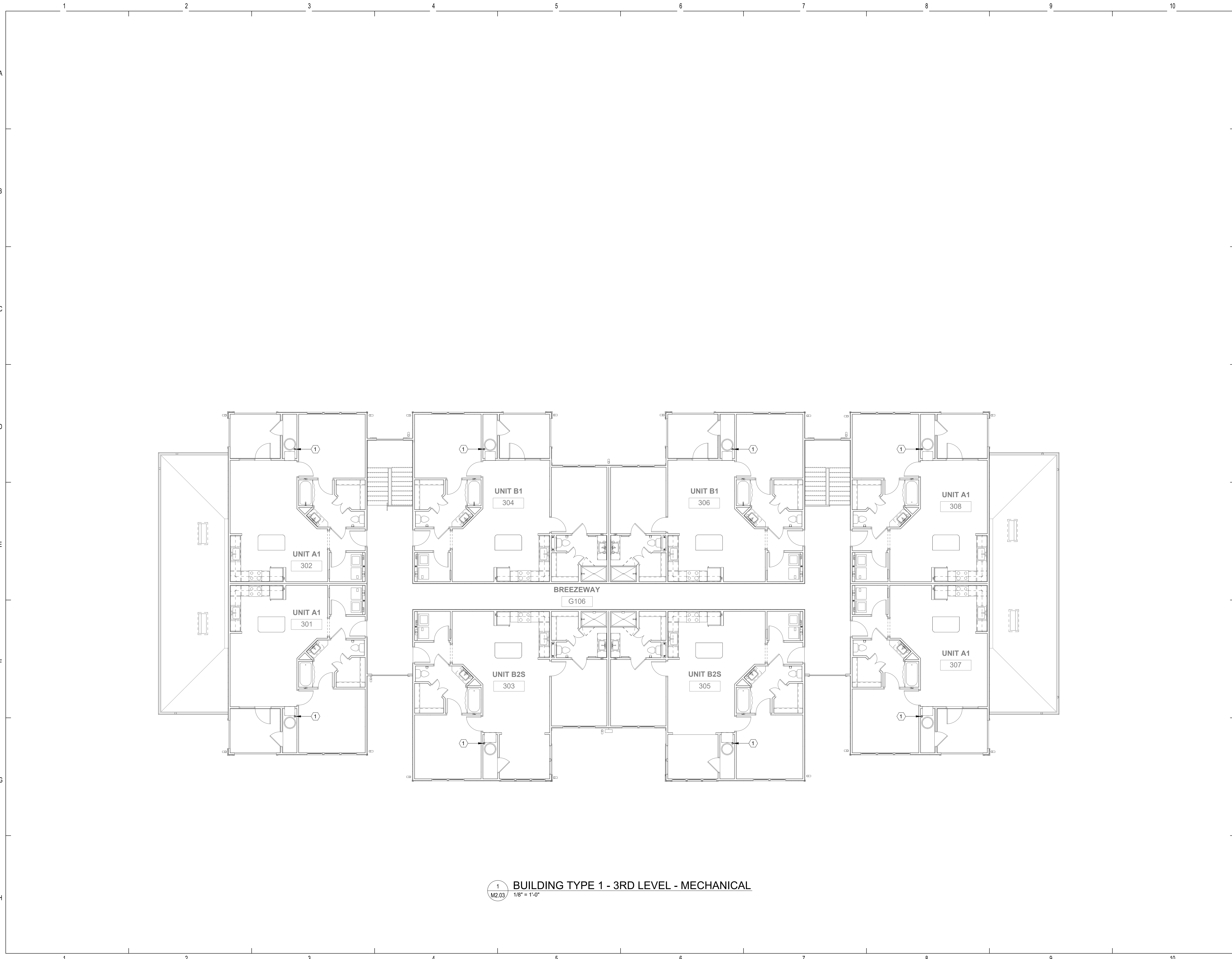
THE ROBERT
 FT. MYERS, FL

**BUILDING TYPE 1 - 2ND
 LEVEL - MECHANICAL**

M2.02

① **BUILDING TYPE 1 - 2ND LEVEL - MECHANICAL**
 M2.02 1/8" = 1'-0"

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REFERENCE NOTES

- ① 1-1/2" SCHEDULE 40 PVC CONDENSATE DRAIN RISER.

PERMIT REVIEW STAMP


ISSUE HISTORY

No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

REVISION HISTORY

No.	Date	Description


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	Approval: JAK
	Date: 09/10/2019
	Project #: 5592

BUILDING TYPE 1 - 3RD LEVEL - MECHANICAL

M2.03

1 **BUILDING TYPE 1 - 3RD LEVEL - MECHANICAL**
 M2.03 1/8" = 1'-0"

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GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE UNDERGROUND CONDENSATE DRAIN LINES WITH THE BUILDING'S FOOTERS.

REFERENCE NOTES

1. 1-1/2" DIA, INSULATED SCH 40 PVC CONDENSATE DRAIN RISER.
2. INSTALL A WALL CLEANOUT BEFORE PENETRATING FLOOR SLAB. SLAB PENETRATION SHALL BE WATER-TIGHT.
3. MOUNT UNIT ON EQUIPMENT PAD AND SECURE THE UNIT TO THE PAD. REFER TO DETAIL ON M6.01 FOR MORE INFORMATION. PROVIDE EQUIPMENT TAGS ON CONDENSING UNITS INDICATING THE APARTMENT NUMBER SERVED. TAGS SHALL BE THREE-LAYER PLASTIC WITH ENGRAVED WHITE LETTERS ON A BLACK BACKGROUND.
4. MAINTAIN 3'-0" CLEAR IN FRONT OF UNITS ELECTRICAL ACCESS SECTION.
5. 1-1/2" DIA SCH 40 PVC CONDENSATE DRAIN PIPE SLOPED DOWNWARDS TO THE POINT OF TERMINATION.
6. REFRIGERANT LINES AND CONTROL WIRING ROUTED BY THE CONTRACTOR BETWEEN THE INDOOR AND OUTDOOR UNITS. THE EXTERIOR WALL PENETRATION SHALL BE 12"-18" ABOVE GRADE WITH A FLASHED SHEET METAL WALL CAP SEALED WEATHER-TIGHT. PRIME AND PAINT CAP TO MATCH SURROUNDING WALL.
7. 1-1/2" INSULATED CONDENSATE DRAIN PIPE FROM RISER ABOVE. CONTINUE CONCEALED ABOVE THE CEILING AND SLOPED TO THE DRAIN RISER CONCEALED IN THE WALL.
8. DOOR INTAKE LOUVER - REFER TO ARCHITECTURAL PLANS.

PERMIT REVIEW STAMP

ISSUE HISTORY

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3	02/28/20	PERMIT REVIEW SET

REVISION HISTORY

No.	Date	Description
1	05/06/20	PERMIT COMMENT RESPONSES



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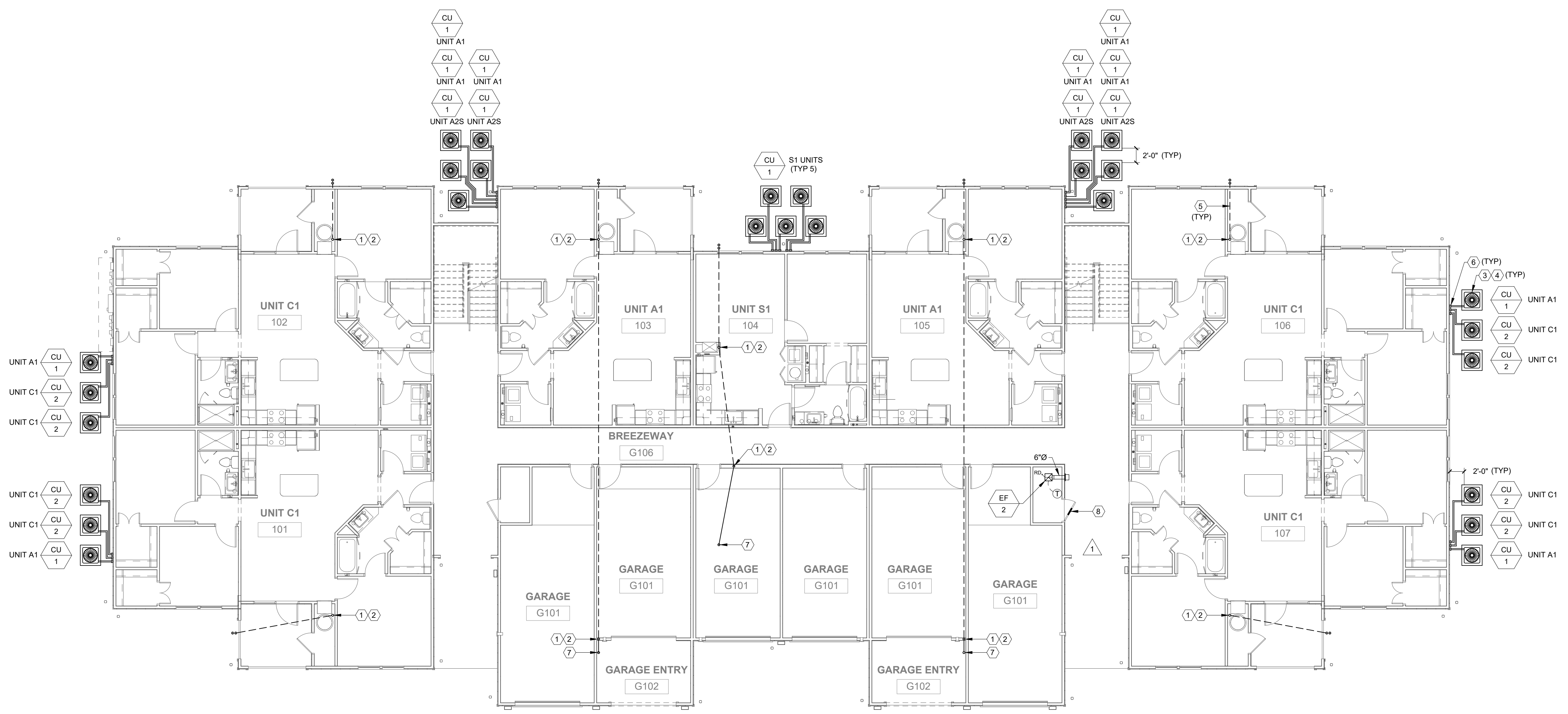
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Project #:	5582

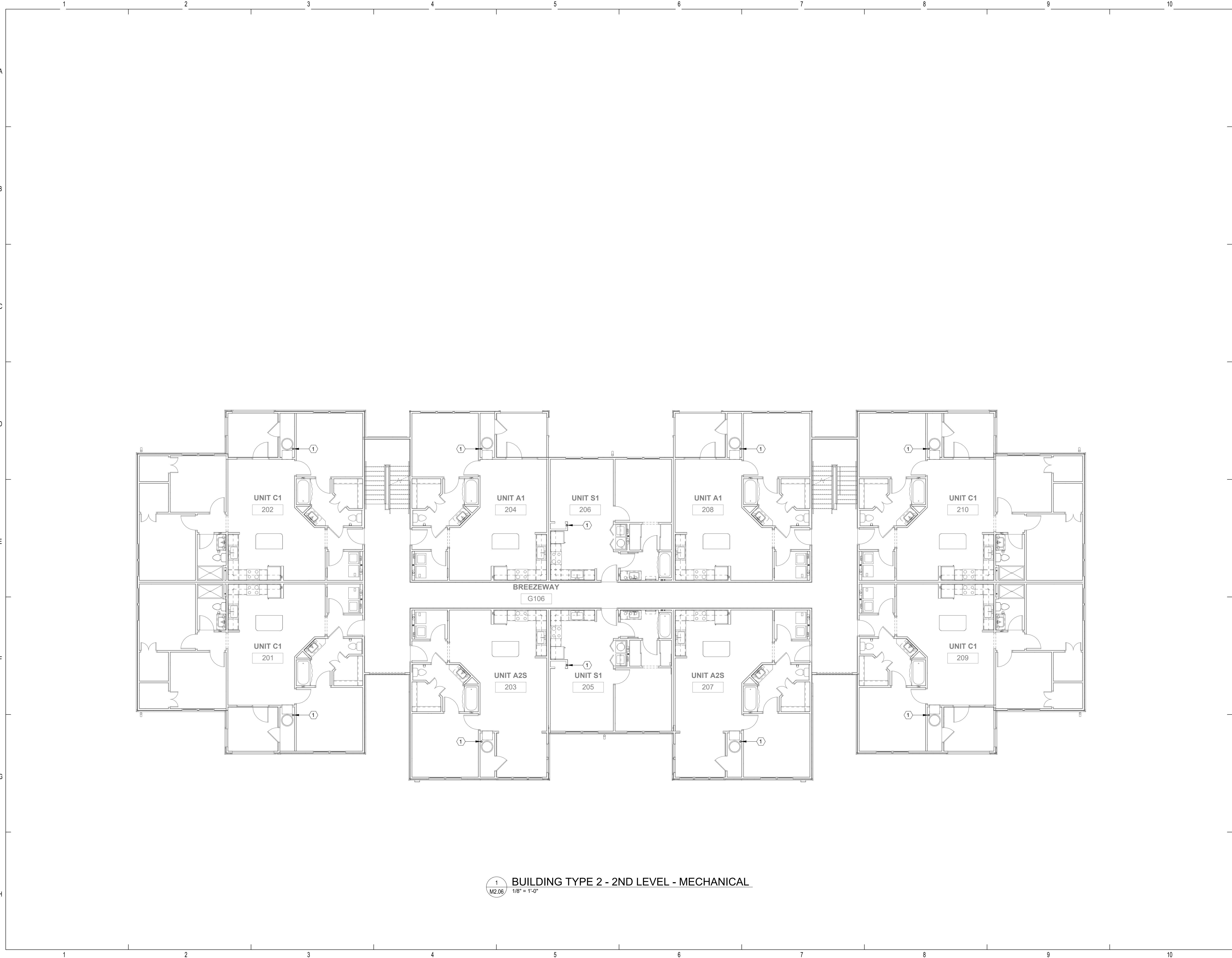
THE ROBERT
FT. MYERS, FL

BUILDING TYPE 2 - GROUND LEVEL - MECHANICAL

M2.05



1 BUILDING TYPE 2 - GROUND LEVEL - MECHANICAL
M2.05 1/8" = 1'-0"



1
M2.06
BUILDING TYPE 2 - 2ND LEVEL - MECHANICAL
 1/8" = 1'-0"

REFERENCE NOTES

- ① 1-1/2" SCHEDULE 40 PVC CONDENSATE DRAIN RISER.

PERMIT REVIEW STAMP

ISSUE HISTORY

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3	02/28/20	PERMIT REVIEW SET

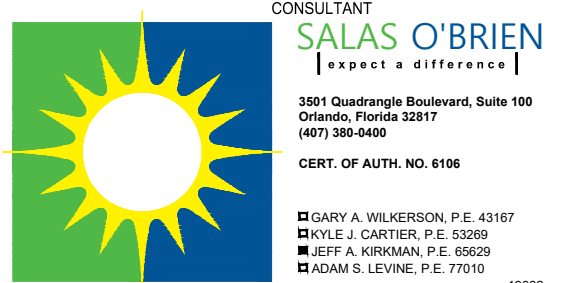
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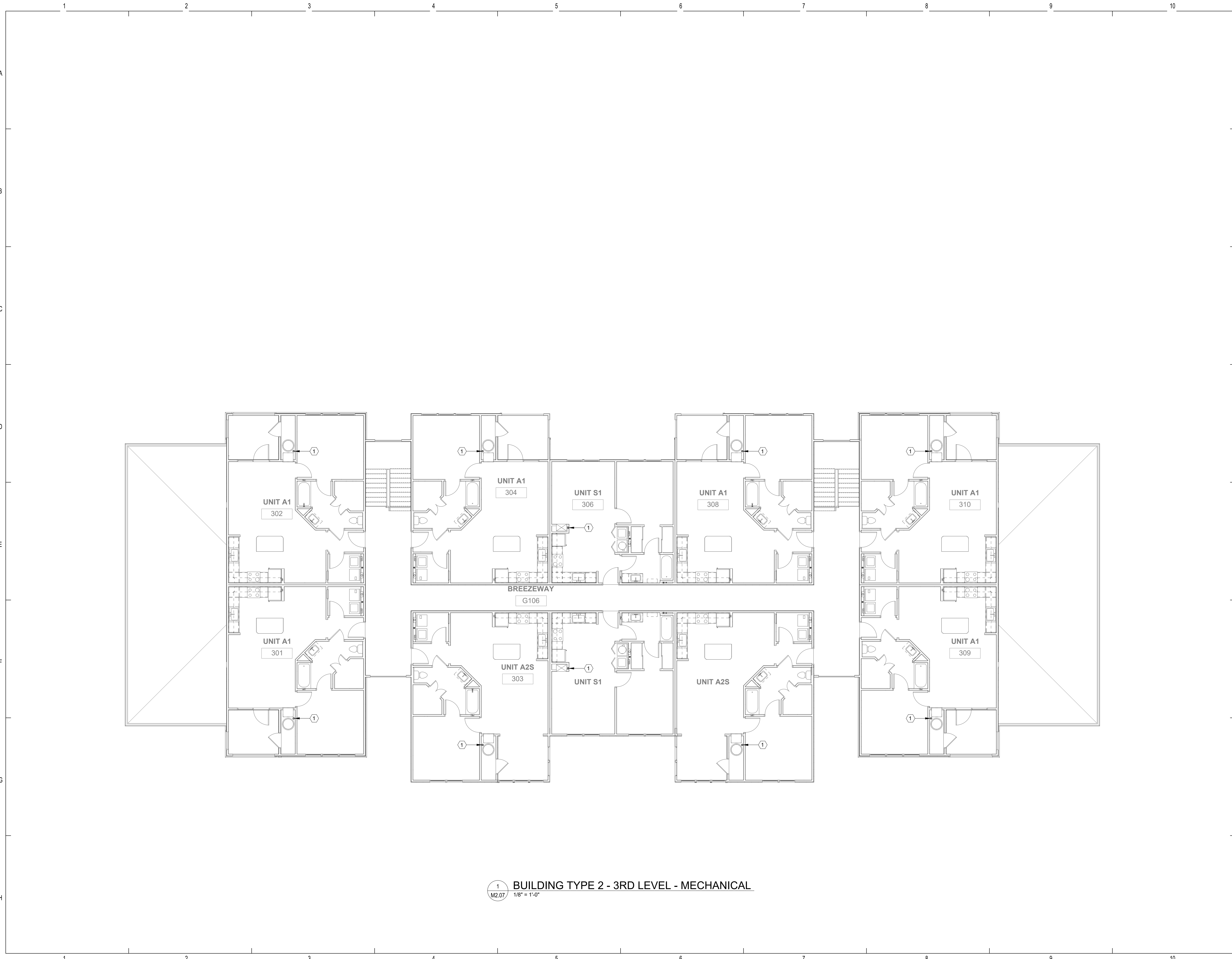
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Approval:	JAK
Date:	09/10/2019
Project #:	5592

THE ROBERT
 FT. MYERS, FL

BUILDING TYPE 2 - 2ND LEVEL - MECHANICAL

M2.06

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1 M2.07 BUILDING TYPE 2 - 3RD LEVEL - MECHANICAL
1/8" = 1'-0"

REFERENCE NOTES

- ① 1-1/2" SCHEDULE 40 PVC CONDENSATE DRAIN RISER.

PERMIT REVIEW STAMP

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	Project #: 5582

BUILDING TYPE 2 - 3RD LEVEL - MECHANICAL

M2.07

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GENERAL NOTES

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REFERENCE NOTES

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- ④ MAINTAIN 3'-0" CLEAR IN FRONT OF UNITS ELECTRICAL ACCESS SECTION.
- ⑤ 1-1/2" DIA SCH 40 PVC CONDENSATE DRAIN PIPE SLOPED DOWNWARDS TO THE POINT OF TERMINATION.
- ⑥ REFRIGERANT LINES AND CONTROL WIRING ROUTED BY THE CONTRACTOR BETWEEN THE INDOOR AND OUTDOOR UNITS. THE EXTERIOR WALL PENETRATION SHALL BE 12"-18" ABOVE GRADE WITH A FLASHED SHEET METAL WALL CAP SEALED WEATHER-TIGHT. PRIME AND PAINT CAP TO MATCH SURROUNDING WALL.
- ⑦ 1-1/2" INSULATED CONDENSATE DRAIN PIPE FROM RISER ABOVE. CONTINUE CONCEALED ABOVE THE CEILING AND SLOPED TO THE DRAIN RISER CONCEALED IN THE WALL.
- ⑧ DOOR INTAKE LOUVER - REFER TO ARCHITECTURAL PLANS.

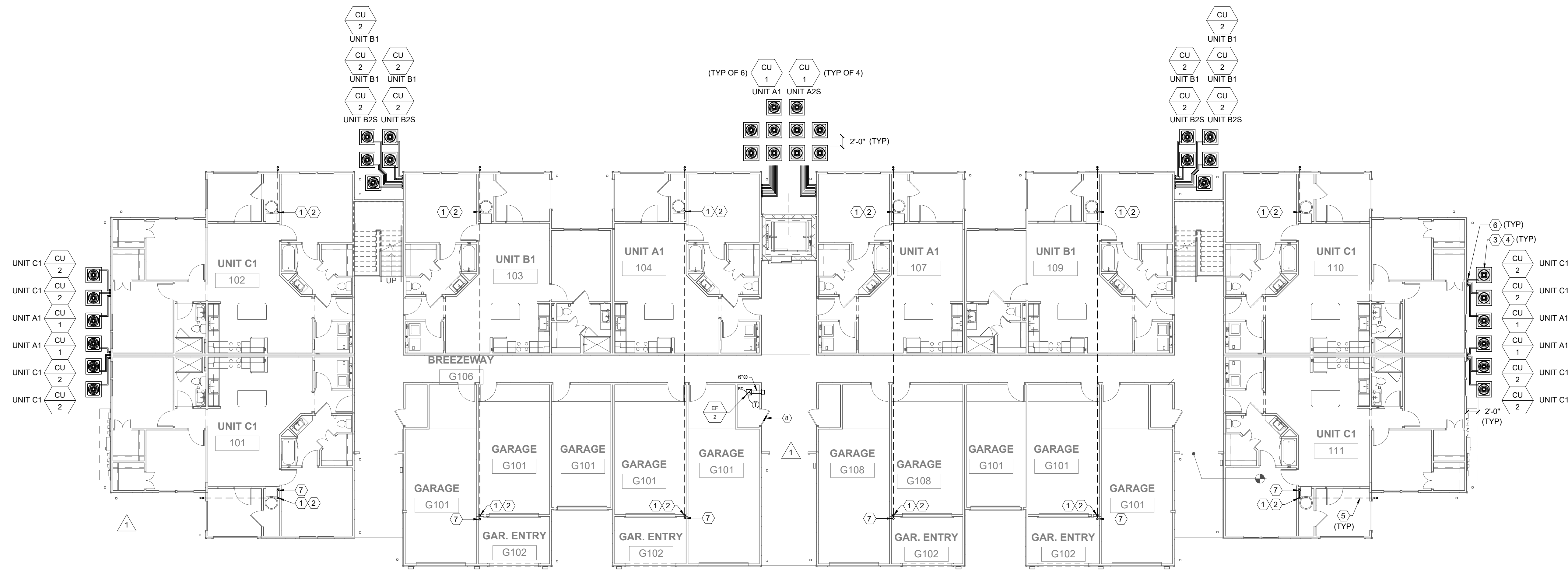
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ISSUE HISTORY

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3	02/28/20	PERMIT REVIEW SET

REVISION HISTORY

No.	Date	Description
1	05/06/20	PERMIT COMMENT RESPONSES



1 BUILDING TYPE 3 - GROUND LEVEL - MECHANICAL
M2.09 3/32" = 1'-0"



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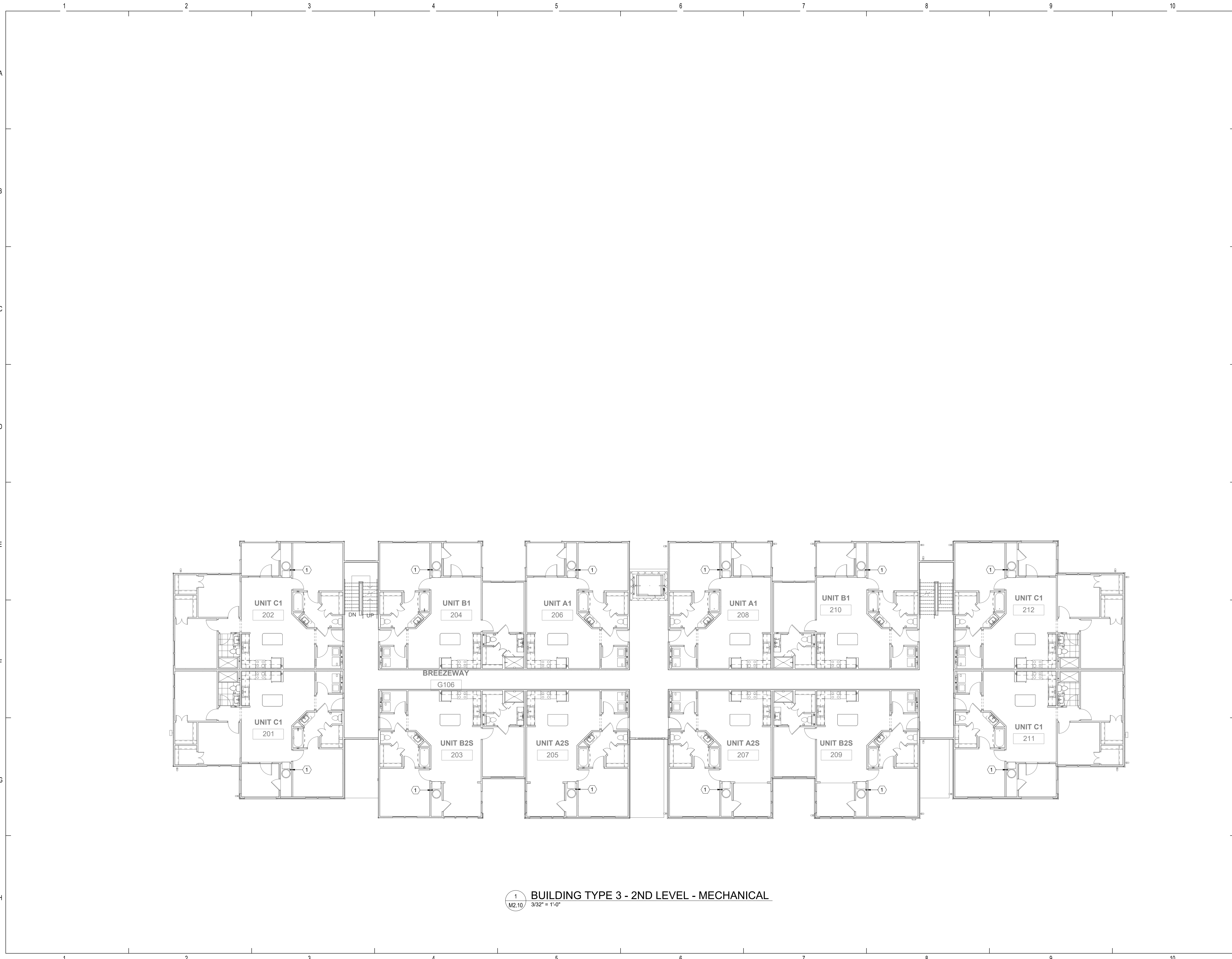
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THE ROBERT
FT. MYERS, FL

BUILDING TYPE 3 - GROUND LEVEL - MECHANICAL

M2.09



REFERENCE NOTES

- ① 1-1/2" SCHEDULE 40 PVC CONDENSATE DRAIN RISER.

PERMIT REVIEW STAMP

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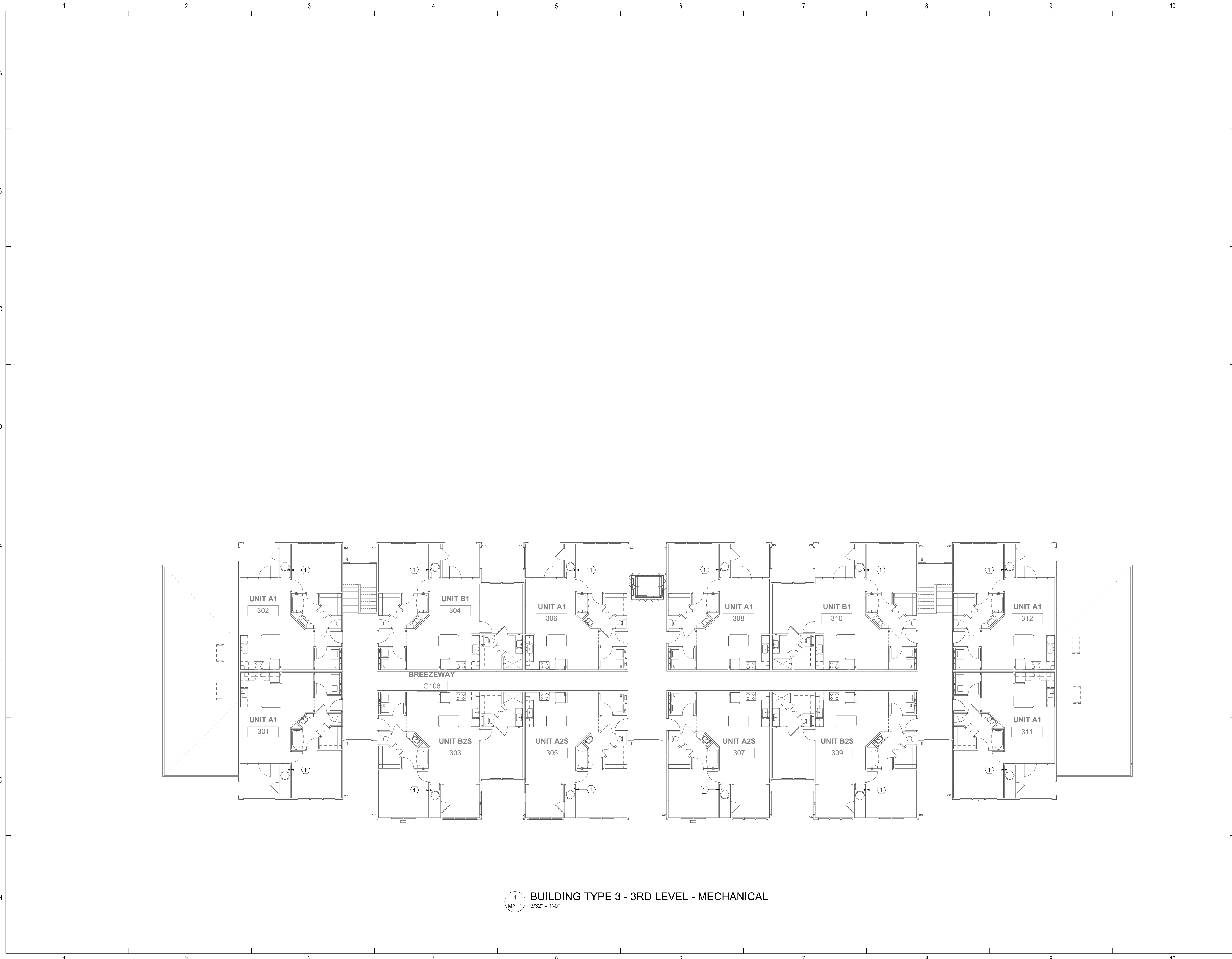
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Project #:	5592

BUILDING TYPE 3 - 2ND LEVEL - MECHANICAL

M2.10

① BUILDING TYPE 3 - 2ND LEVEL - MECHANICAL
M2.10 3/32" = 1'-0"

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REFERENCE NOTES

- ① 1-1/2" SCHEDULE 40 PVC CONDENSATE DRAIN RISER.

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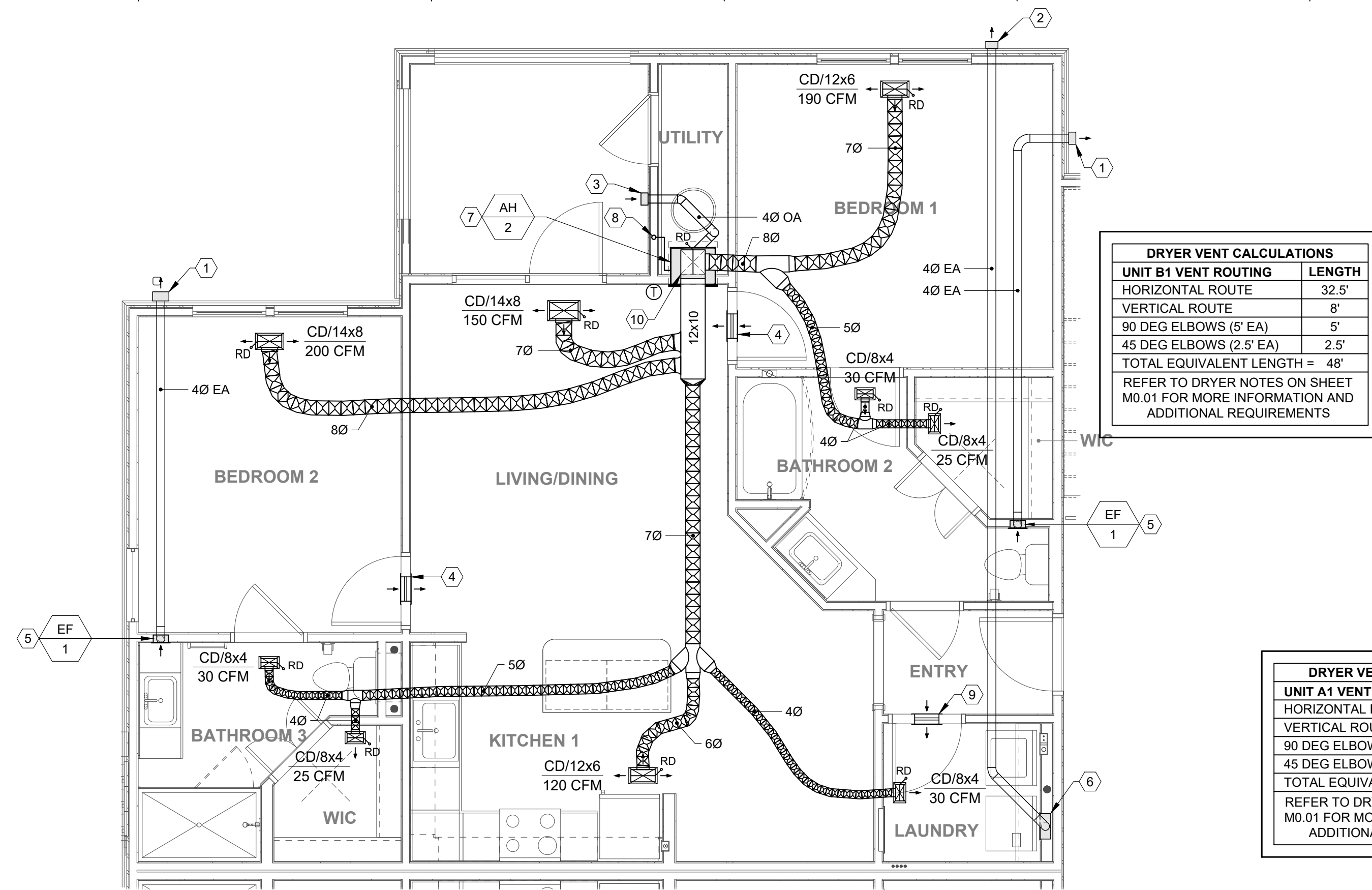
THE ROBERT
 FT. MYERS, FL

BUILDING TYPE 3 - 3RD LEVEL - MECHANICAL

M2.11

① BUILDING TYPE 3 - 3RD LEVEL - MECHANICAL
 M2.11 3/32" = 1'-0"

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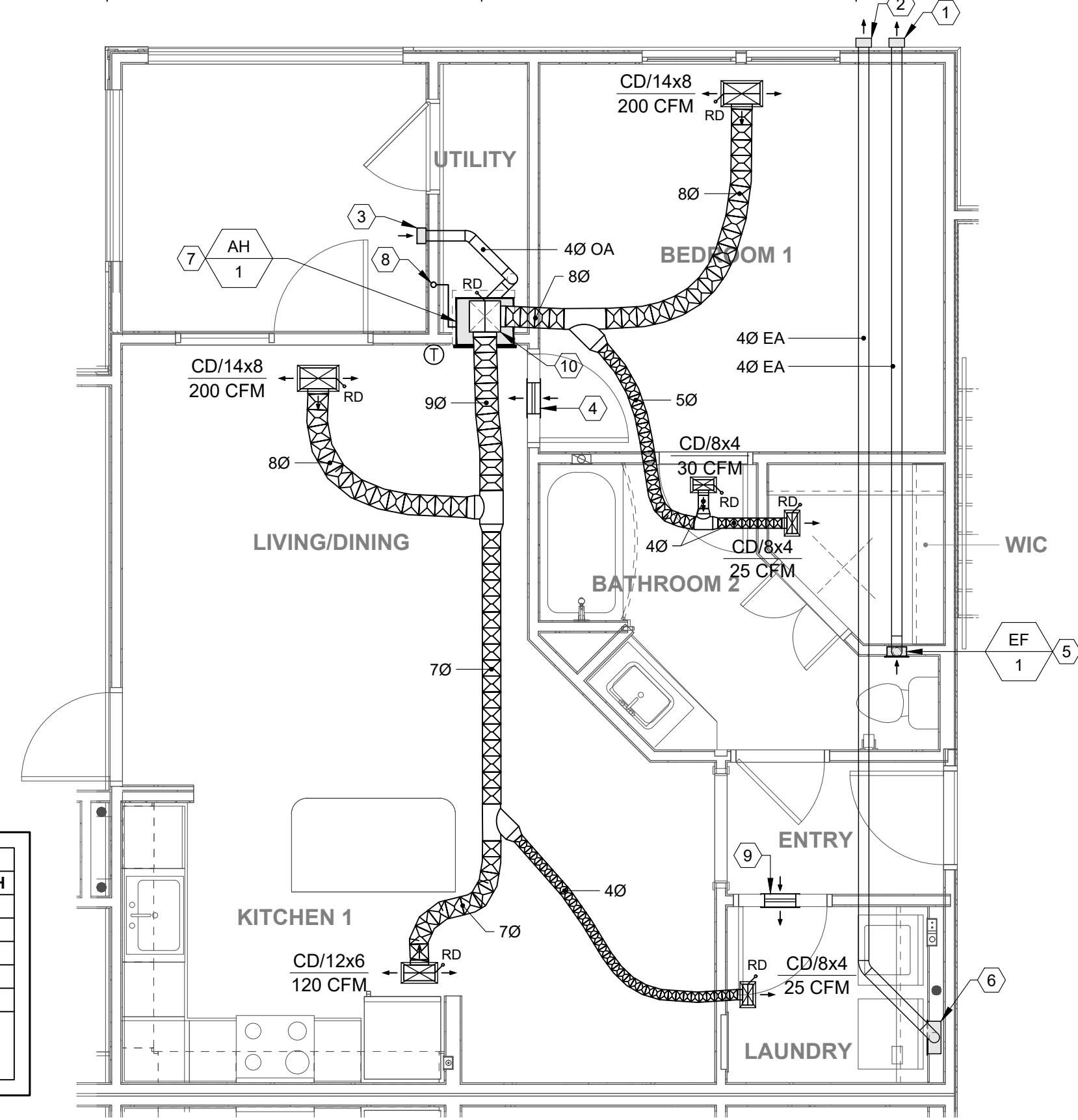
DRYER VENT CALCULATIONS	
UNIT B1 VENT ROUTING	LENGTH
HORIZONTAL ROUTE	32.5'
VERTICAL ROUTE	8'
90 DEG ELBOWS (5' EA)	5'
45 DEG ELBOWS (2.5' EA)	2.5'
TOTAL EQUIVALENT LENGTH =	48'

REFER TO DRYER NOTES ON SHEET M0.01 FOR MORE INFORMATION AND ADDITIONAL REQUIREMENTS

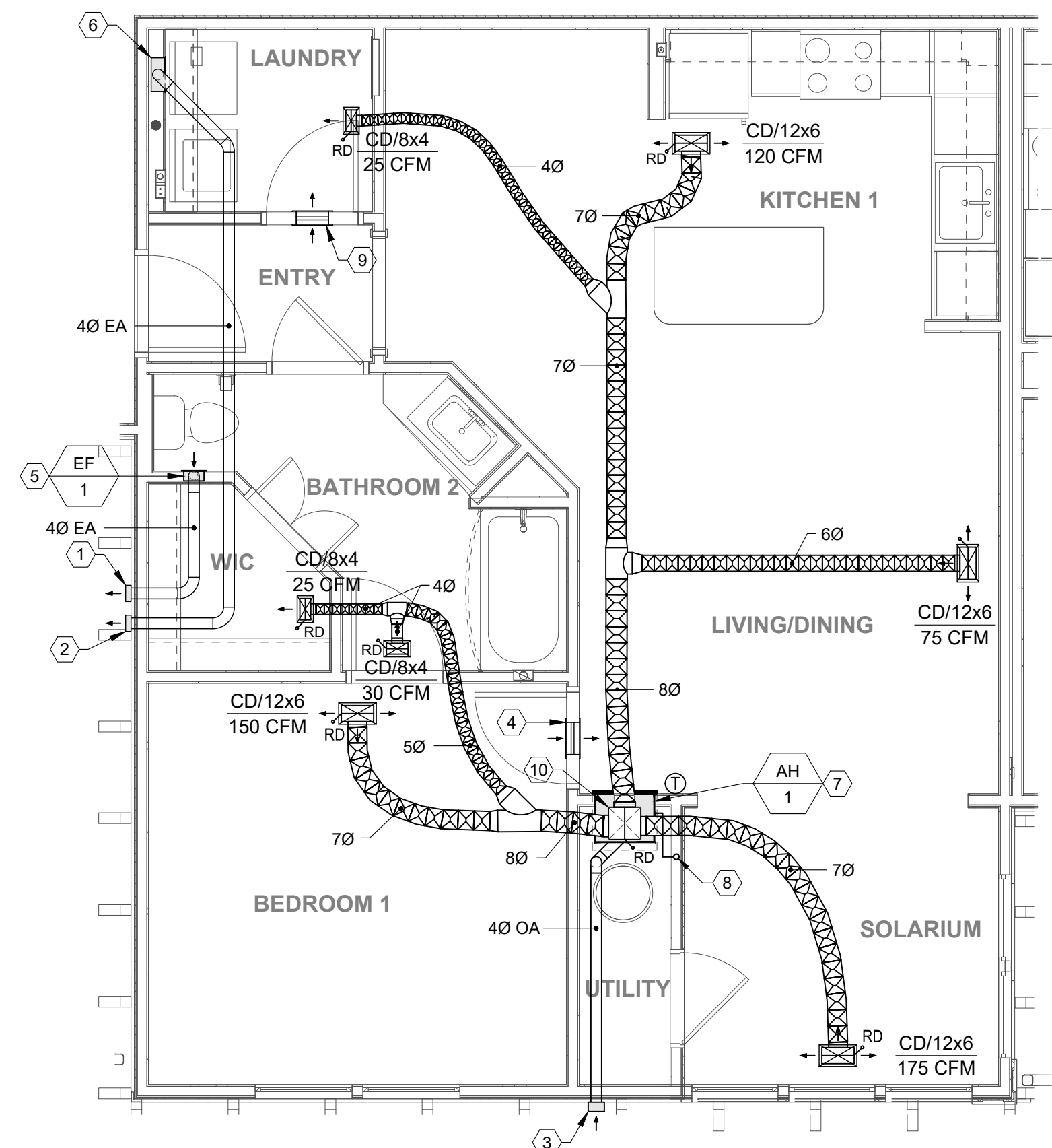
DRYER VENT CALCULATIONS	
UNIT A1 VENT ROUTING	LENGTH
HORIZONTAL ROUTE	32.5'
VERTICAL ROUTE	8'
90 DEG ELBOWS (5' EA)	5'
45 DEG ELBOWS (2.5' EA)	2.5'
TOTAL EQUIVALENT LENGTH =	48'

REFER TO DRYER NOTES ON SHEET M0.01 FOR MORE INFORMATION AND ADDITIONAL REQUIREMENTS

4 UNIT B1 FLOOR PLAN - MECHANICAL
M3.01 1/4" = 1'-0"



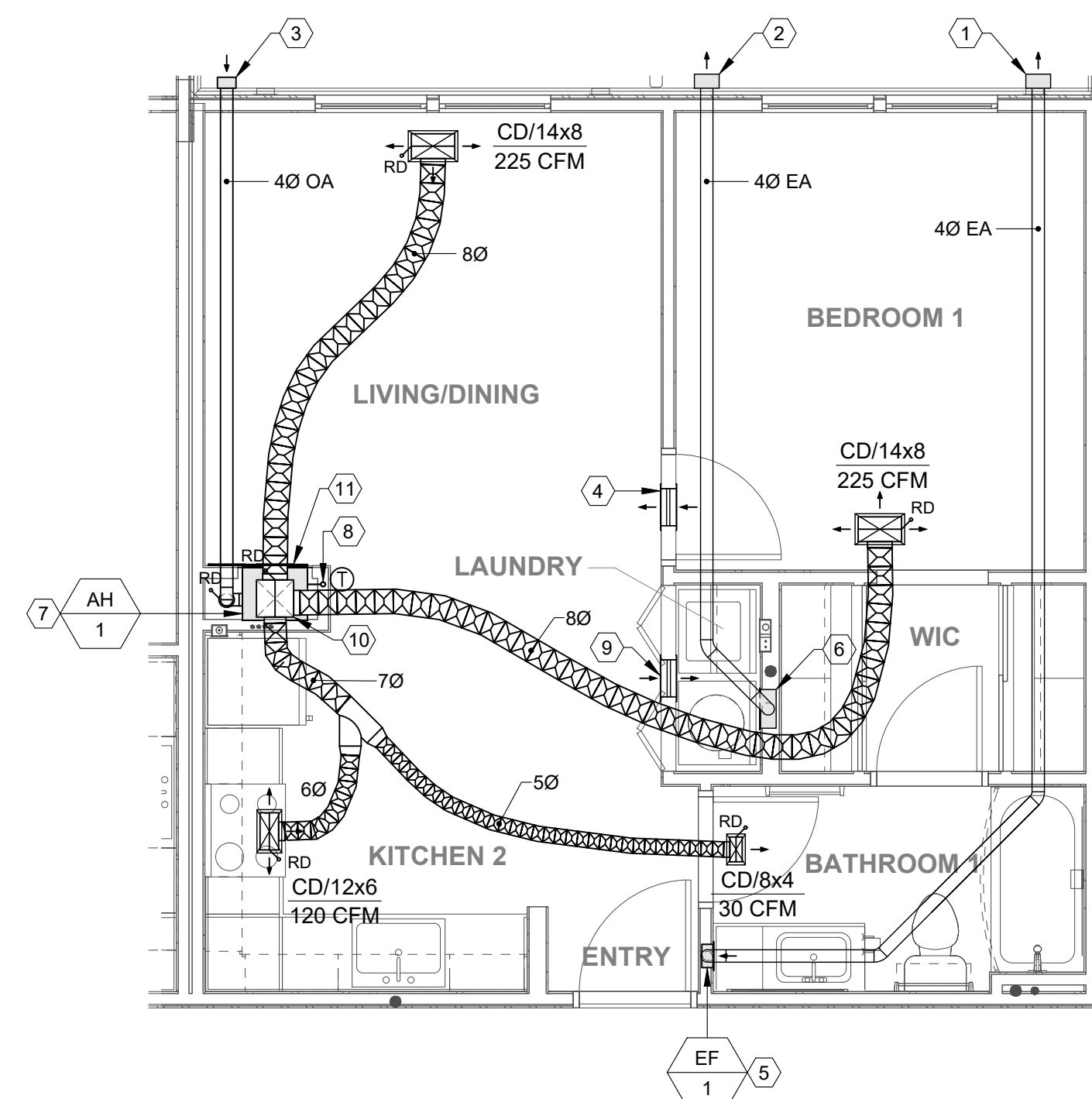
2 UNIT A1 FLOOR PLAN - MECHANICAL
M3.01 1/4" = 1'-0"



DRYER VENT CALCULATIONS	
UNIT A2S VENT ROUTING	LENGTH
HORIZONTAL ROUTE	21'
VERTICAL ROUTE	8'
90 DEG ELBOWS (5' EA)	10'
45 DEG ELBOWS (2.5' EA)	2.5'
TOTAL EQUIVALENT LENGTH =	41.5'

REFER TO DRYER NOTES ON SHEET M0.01 FOR MORE INFORMATION AND ADDITIONAL REQUIREMENTS

3 UNIT A2S FLOOR PLAN - MECHANICAL
M3.01 1/4" = 1'-0"



DRYER VENT CALCULATIONS	
UNIT S1 VENT ROUTING	LENGTH
HORIZONTAL ROUTE	17.5'
VERTICAL ROUTE	8'
90 DEG ELBOWS (5' EA)	5'
45 DEG ELBOWS (2.5' EA)	2.5'
TOTAL EQUIVALENT LENGTH =	33'

REFER TO DRYER NOTES ON SHEET M0.01 FOR MORE INFORMATION AND ADDITIONAL REQUIREMENTS

1 UNIT S1 FLOOR PLAN - MECHANICAL
M3.01 1/4" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE STRUCTURAL ELEMENTS TO ALLOW THE DUCT ROUTING SHOWN.
2. NO EXHAUST VENTS SHALL DISCHARGE IN CORRIDORS OR ABOVE PUBLIC WALKWAYS.

DRYER VENT NOTES

1. DURING CONSTRUCTION THE MECHANICAL CONTRACTOR SHALL DOCUMENT THE ACTUAL FIELD-INSTALLED DRYER VENT LENGTH AND FITTINGS PER THE DOMESTIC CLOTHES DRYER NOTES LOCATED ON M0.1.
2. THE DRYER INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE AT THE SITE AND BE PRESENTED TO THE INSPECTOR UPON REQUEST.

REFERENCE NOTES

1. TERMINATE DUCT WITH A HOODED WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN.
2. TERMINATE DRYER VENT WITH A HOODED WALL CAP WITH A BACKDRAFT DAMPER AND NO SCREEN.
3. TERMINATE DUCT WITH A HOODED WALL CAP WITH BACKDRAFT DAMPER ORIENTED TO ONLY LET AIR IN AND BIRD SCREEN.

REFERENCE NOTES CONT...

4. INSTALL TWO 12x6 TYPE RG TRANSFER GRILLES ABOVE DOOR. REFER TO SHEET M6.01 FOR TRANSFER GRILLE DETAIL.
5. EXHAUST FAN LOCATED IN WALL WITH TOP OF INTAKE GRILLE LOCATED 6" BELOW CEILING.
6. WALL-MOUNTED DRYER VENT BOX BEHIND DRYER.
7. 12x12 SUPPLY DUCT UP WITH A RADIATION DAMPER AT THE RATED ASSEMBLY PENETRATION. ROUTE THE CONDENSATE DRAIN LINE WITH P-TRAP TO THE DRAIN RISER. THE REFRIGERANT PIPING AND CONTROL WIRING SHALL BE FIELD-ROUTED BY THE INSTALLING CONTRACTOR.
8. INSULATED CONDENSATE RISER WITH WALL CLEANOUT LOCATED IN FIRST FLOOR UNIT.
9. UNDERCUT DOOR 1" AND INSTALL TWO 12x6 TYPE RG TRANSFER GRILLES ABOVE DOOR. REFER TO SHEET M6.01 FOR TRANSFER GRILLE DETAIL.
10. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE STRUCTURAL DESIGN TO ACCOMMODATE THE INSTALLATION OF THE DUCT ROUTING SHOWN.
11. ACCESS PANEL LOCATED HIGH ON WALL AND ALIGNED WITH DUCT ACCESS PANEL TO ALLOW FOR RADIATION DAMPER SERVICE AND INSPECTION. ACCESS PANEL SHALL BE FRAMED WITH CONCEALED HARDWARE AND BE PAINTED TO MATCH WALL.

PERMIT REVIEW STAMP

ISSUE HISTORY

No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

REVISION HISTORY

No.	Date	Description

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Approval: JAK
Date: 09/10/2019
Project #: 5592

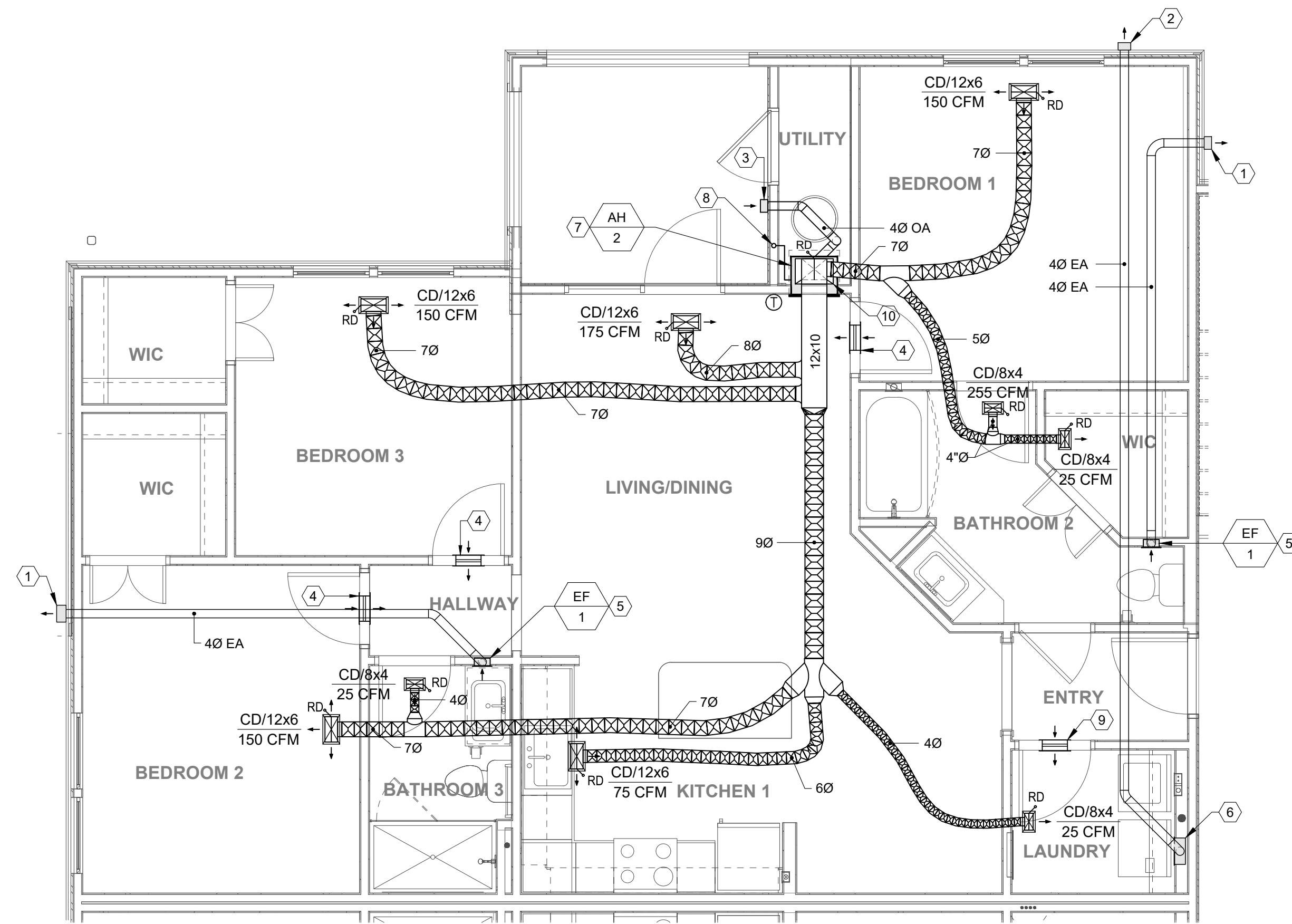
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UNIT PLANS - MECHANICAL

M3.01

DRYER VENT CALCULATIONS		
UNIT C1 VENT ROUTING	LENGTH	
HORIZONTAL ROUTE	32.5'	
VERTICAL ROUTE	8'	
90 DEG ELBOWS (5' EA)	5'	
45 DEG ELBOWS (2.5' EA)	2.5'	
TOTAL EQUIVALENT LENGTH =	48'	

REFER TO DRYER NOTES ON SHEET M0.01 FOR MORE INFORMATION AND ADDITIONAL REQUIREMENTS

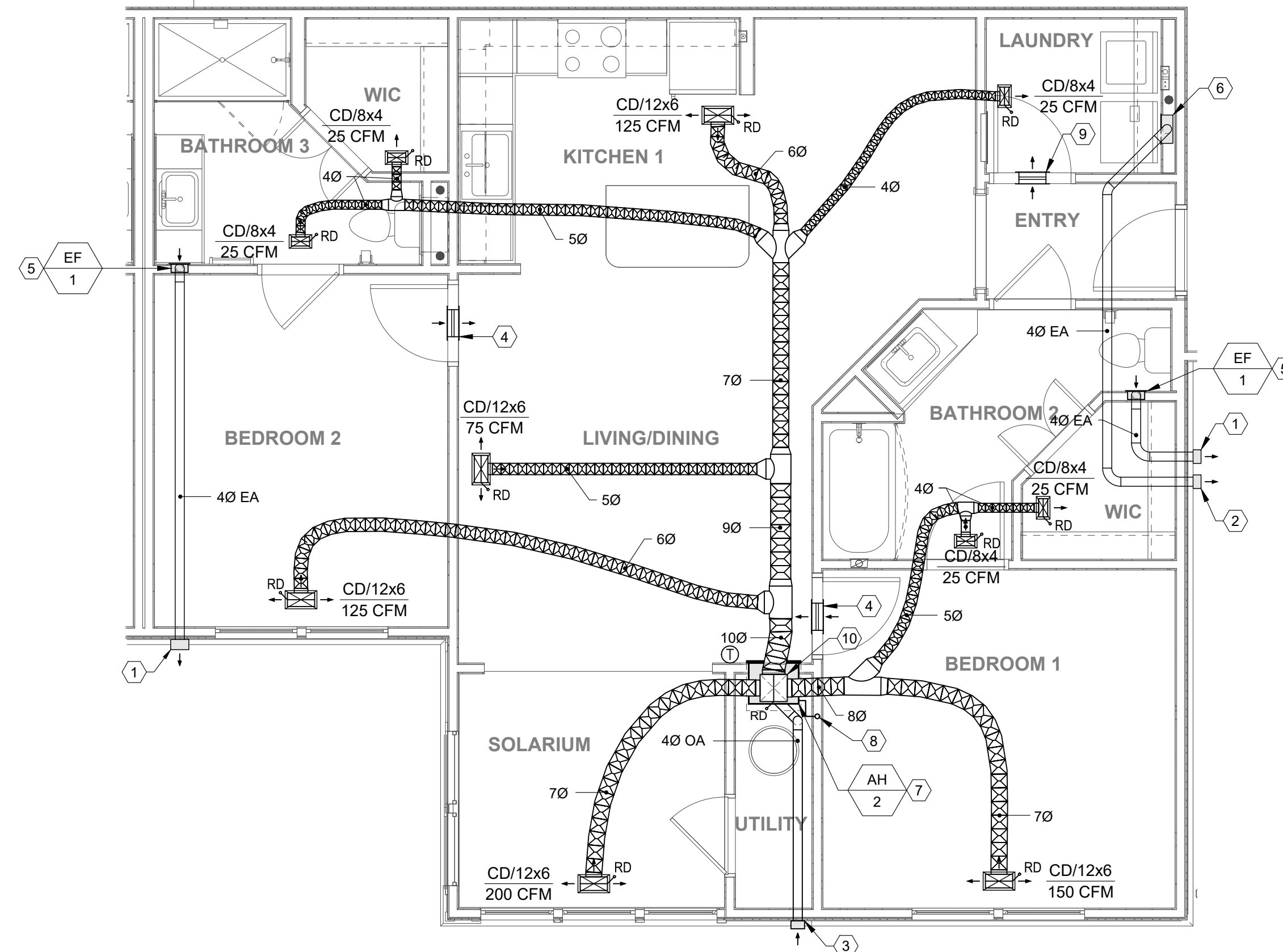


2 UNIT C1 FLOOR PLAN - MECHANICAL

M3.02 1/4" = 1'-0"

DRYER VENT CALCULATIONS		
UNIT B2S VENT ROUTING	LENGTH	
HORIZONTAL ROUTE	16.5'	
VERTICAL ROUTE	8'	
90 DEG ELBOWS (5' EA)	10'	
45 DEG ELBOWS (2.5' EA)	2.5'	
TOTAL EQUIVALENT LENGTH =	37'	

REFER TO DRYER NOTES ON SHEET M0.01 FOR MORE INFORMATION AND ADDITIONAL REQUIREMENTS



1 UNIT B2S FLOOR PLAN - MECHANICAL

M3.02 1/4" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE CONSTRUCTION OF THE STRUCTURAL ELEMENTS TO ALLOW THE DUCT ROUTING SHOWN.
2. NO EXHAUST VENTS SHALL DISCHARGE IN CORRIDORS OR ABOVE PUBLIC WALKWAYS.

DRYER VENT NOTES

1. DURING CONSTRUCTION THE MECHANICAL CONTRACTOR SHALL DOCUMENT THE ACTUAL FIELD-INSTALLED DRYER VENT LENGTH AND FITTINGS PER THE DOMESTIC CLOTHES DRYER NOTES LOCATED ON M0.1.
2. THE DRYER INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE AT THE SITE AND BE PRESENTED TO THE INSPECTOR UPON REQUEST.

REFERENCE NOTES

1. TERMINATE DUCT WITH A HOODED WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN.
2. TERMINATE DRYER VENT WITH A HOODED WALL CAP WITH A BACKDRAFT DAMPER AND NO SCREEN.
3. TERMINATE DUCT WITH A HOODED WALL CAP WITH BACKDRAFT DAMPER ORIENTED TO ONLY LET AIR IN AND BIRD SCREEN.
4. INSTALL TWO 12x6 TYPE RG TRANSFER GRILLES ABOVE DOOR. REFER TO SHEET M6.01 FOR TRANSFER GRILLE DETAIL.
5. EXHAUST FAN LOCATED IN WALL WITH TOP OF INTAKE GRILLE LOCATED 6" BELOW CEILING.
6. WALL-MOUNTED DRYER VENT BOX BEHIND DRYER.
7. 12x12 SUPPLY DUCT UP WITH A RADIATION DAMPER AT THE RATED ASSEMBLY PENETRATION. ROUTE THE CONDENSATE DRAIN LINE WITH P-TRAP TO THE DRAIN RISER. THE REFRIGERANT PIPING AND CONTROL WIRING SHALL BE FIELD-ROUTED BY THE INSTALLING CONTRACTOR.
8. INSULATED CONDENSATE RISER WITH WALL CLEANOUT LOCATED IN FIRST FLOOR UNIT.
9. UNDERCUT DOOR 1" AND INSTALL TWO 12x6 TYPE RG TRANSFER GRILLES ABOVE DOOR. REFER TO SHEET M6.01 FOR TRANSFER GRILLE DETAIL.
10. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE STRUCTURAL DESIGN TO ACCOMMODATE THE INSTALLATION OF THE DUCT ROUTING SHOWN.

PERMIT REVIEW STAMP

ISSUE HISTORY

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1	11/22/19	SCHEMATIC DESIGN
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3	02/28/20	PERMIT REVIEW SET

REVISION HISTORY

No.	Date	Description



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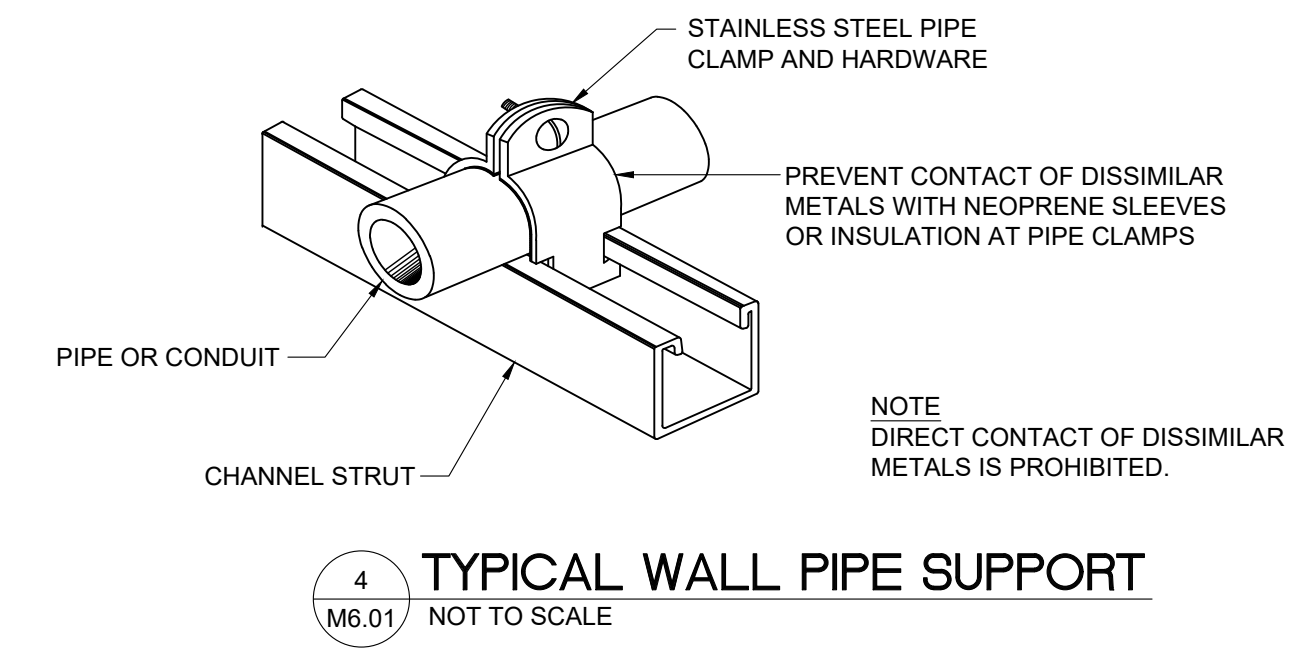
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Checked:	RDP
Approval:	JAK
Date:	09/10/2019
Project #:	5592

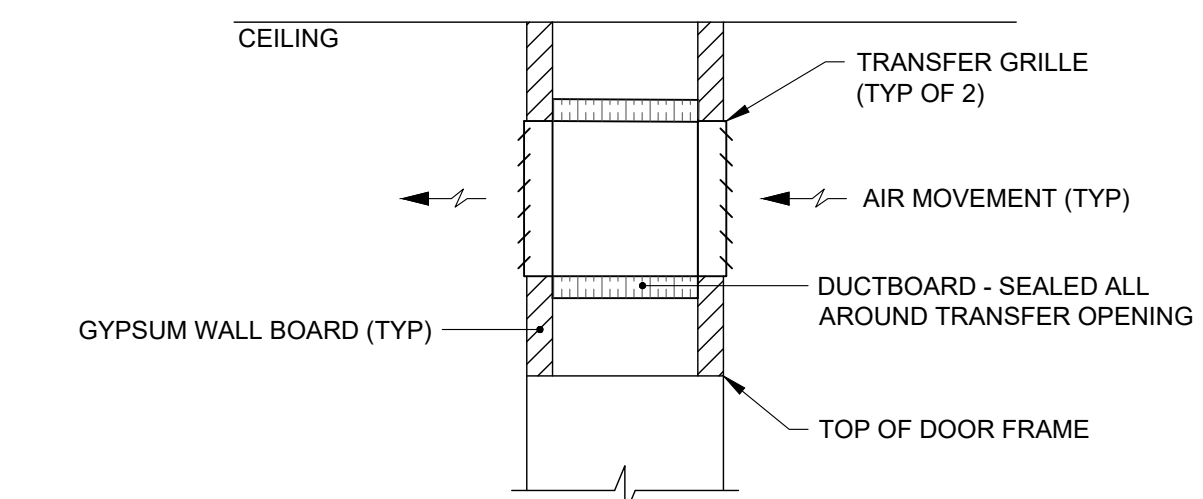
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UNIT PLANS - MECHANICAL

M3.02

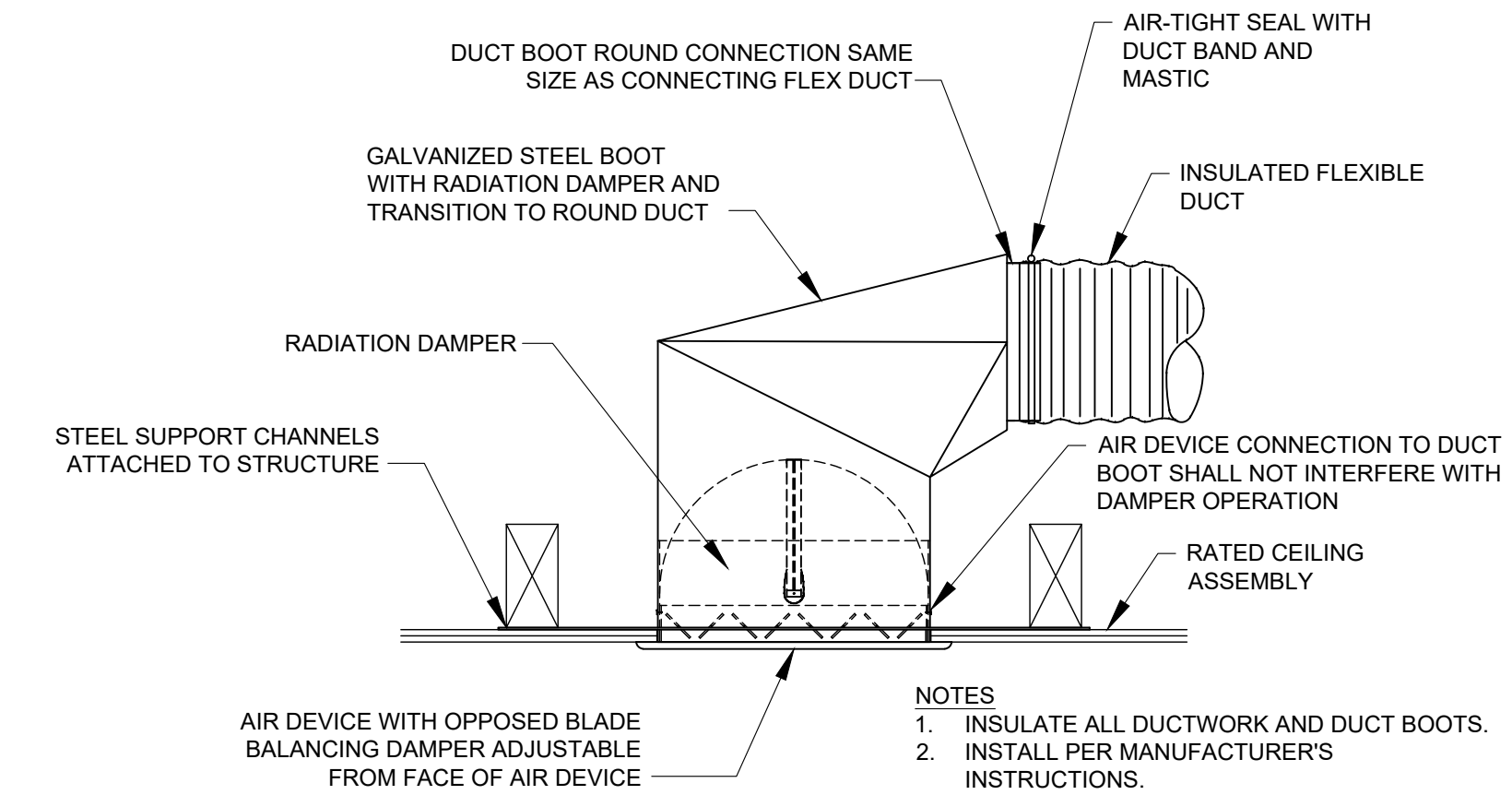


4 TYPICAL WALL PIPE SUPPORT
M6.01 NOT TO SCALE



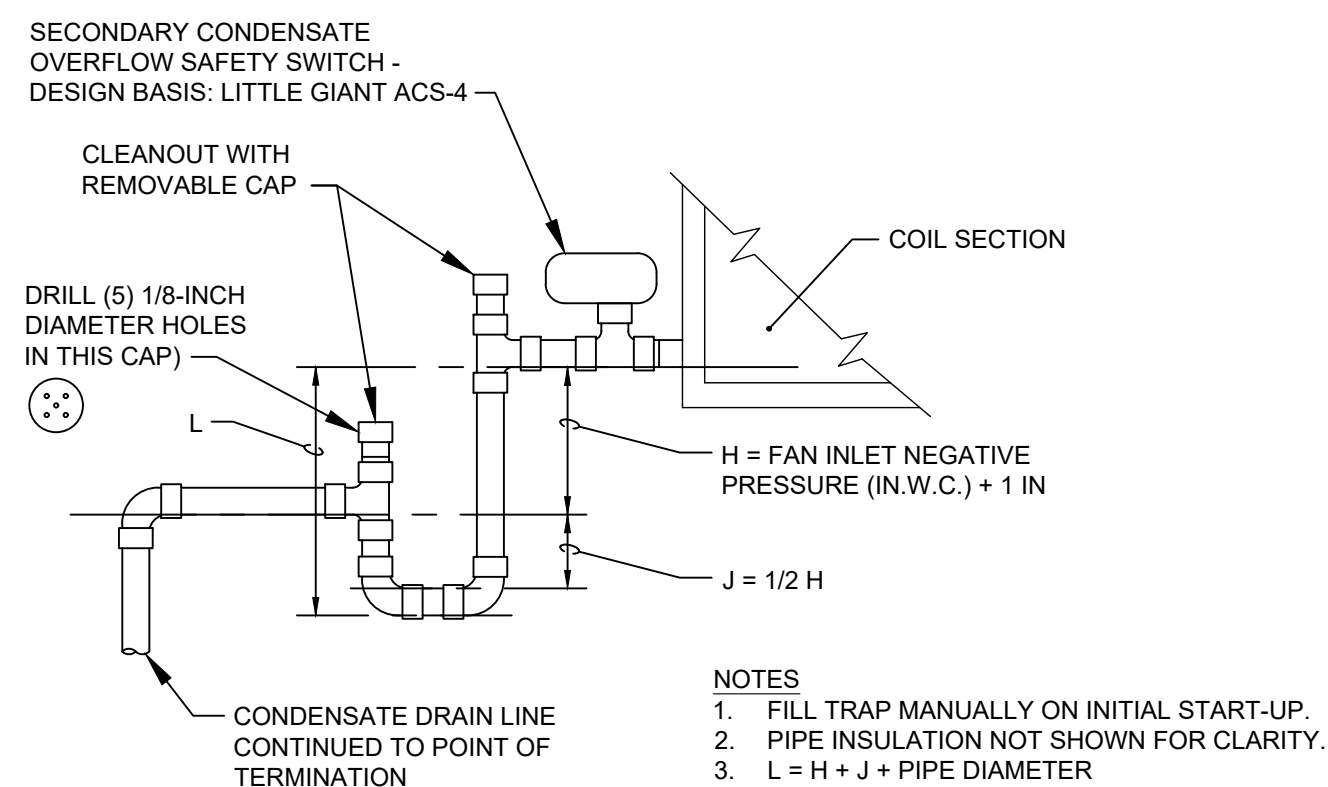
- NOTES
- TRANSFER GRILLES SHALL BE SIZED FOR 50 SQUARE INCHES OF GRILLE AREA FOR EVERY 100 CFM OF SUPPLY AIR TO THE ROOM.
 - BEDROOM DOORS SHALL HAVE A 1-INCH UNDERCUT.
 - TRANSFER GRILLES SHALL BE NO SMALLER THAN 12x6.

3 ABOVE-DOOR AIR TRANSFER GRILLES
M6.01 NOT TO SCALE



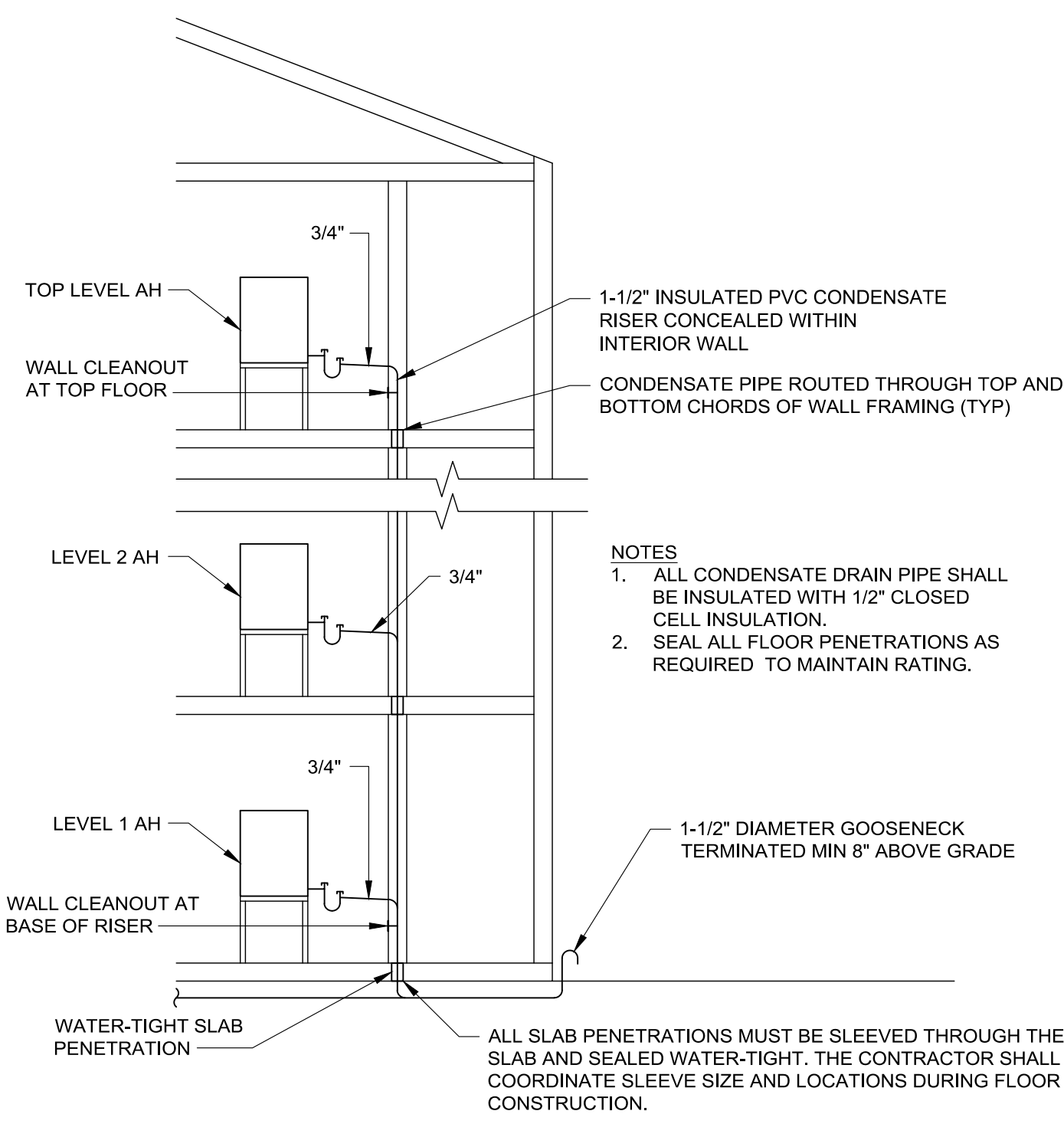
- NOTES
- INSULATE ALL DUCTWORK AND DUCT BOOTS.
 - INSTALL PER MANUFACTURER'S INSTRUCTIONS.

2 TYPICAL FLEXIBLE DUCT TO AIR DEVICE W/RADIATION DAMPER
M6.01 NOT TO SCALE



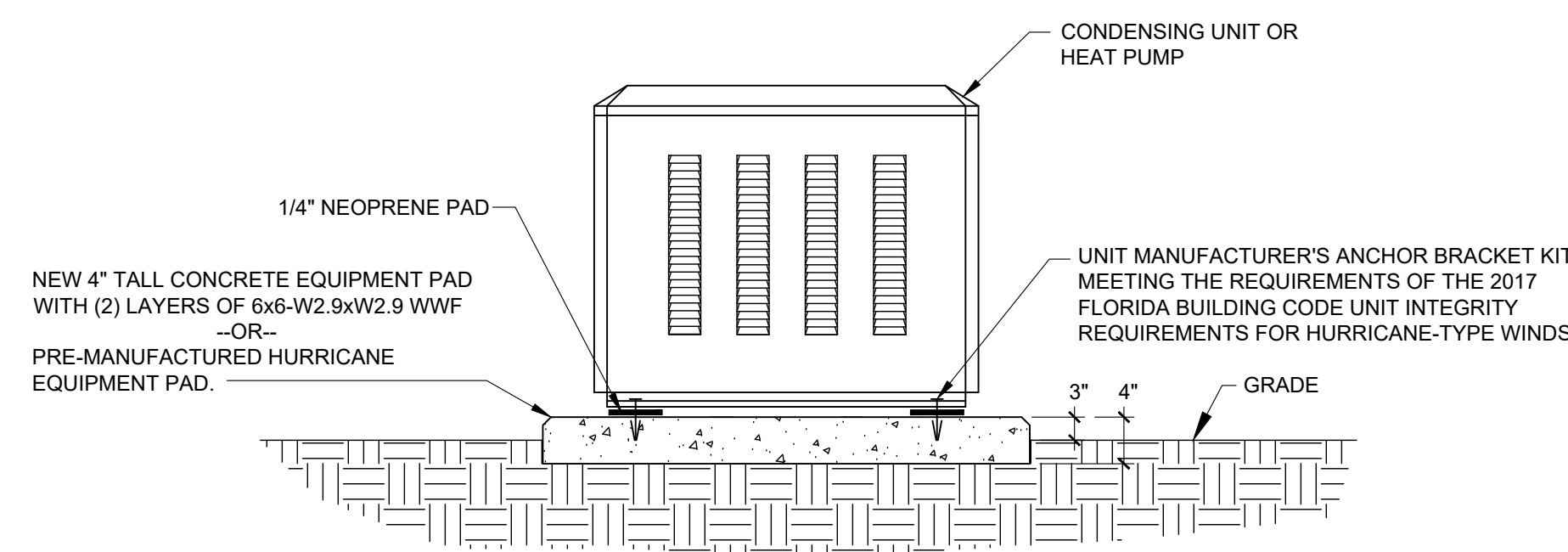
- NOTES
- FILL TRAP MANUALLY ON INITIAL START-UP.
 - PIPE INSULATION NOT SHOWN FOR CLARITY.
 - $L = H + J + \text{PIPE DIAMETER}$

1 TYPICAL CONDENSATE DRAIN
M6.01 NOT TO SCALE



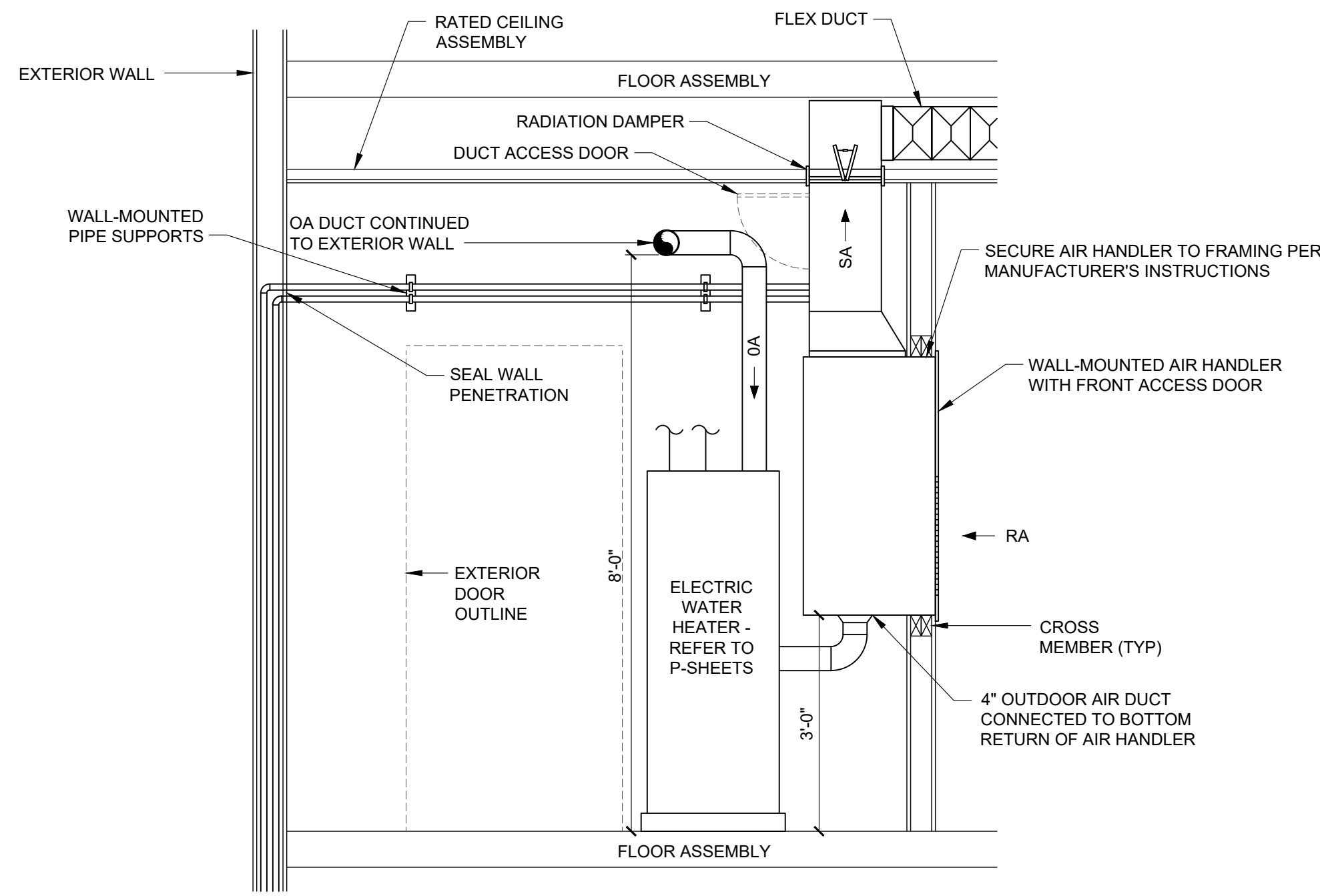
- NOTES
- ALL CONDENSATE DRAIN PIPE SHALL BE INSULATED WITH 1/2" CLOSED CELL INSULATION.
 - SEAL ALL FLOOR PENETRATIONS AS REQUIRED TO MAINTAIN RATING.

6 TYPICAL CONDENSATE RISER SCHEMATIC
M6.01 NOT TO SCALE

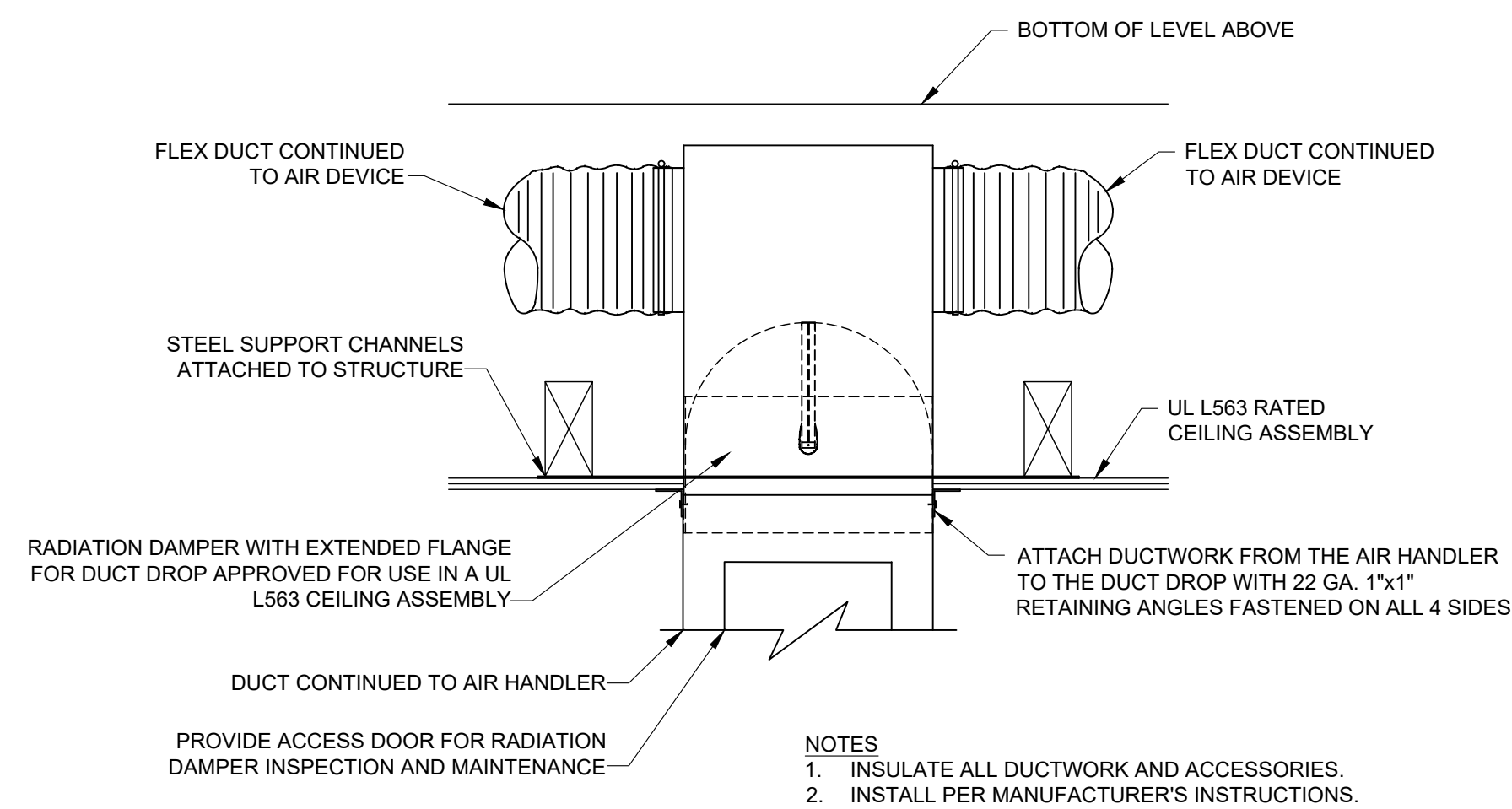


- NOTES
- THIS DETAIL IS TYPICAL FOR CONDENSING UNITS/HEAT PUMPS 5 TONS AND SMALLER.
 - SECURE THE EQUIPMENT BRACKETS TO THE CONCRETE PAD WITH TAPCONS (MIN 1-1/2 INCH EMBED).

5 CONDENSING UNIT/HEAT PUMP INSTALLATION DETAIL
M6.01 NOT TO SCALE



8 TYPICAL APARTMENT UTILITY CLOSET EQUIPMENT DETAIL
M6.01 NOT TO SCALE



- NOTES
- INSULATE ALL DUCTWORK AND ACCESSORIES.
 - INSTALL PER MANUFACTURER'S INSTRUCTIONS.

7 TYPICAL APARTMENT RATED-CEILING DUCT PENETRATION
M6.01 NOT TO SCALE

ISSUE HISTORY

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2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

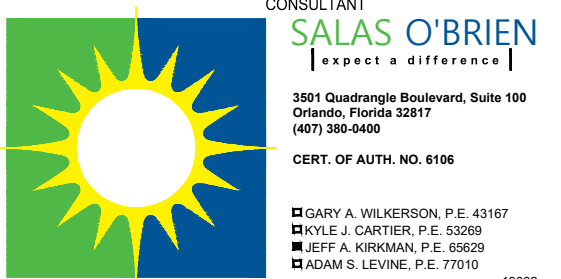
REVISION HISTORY

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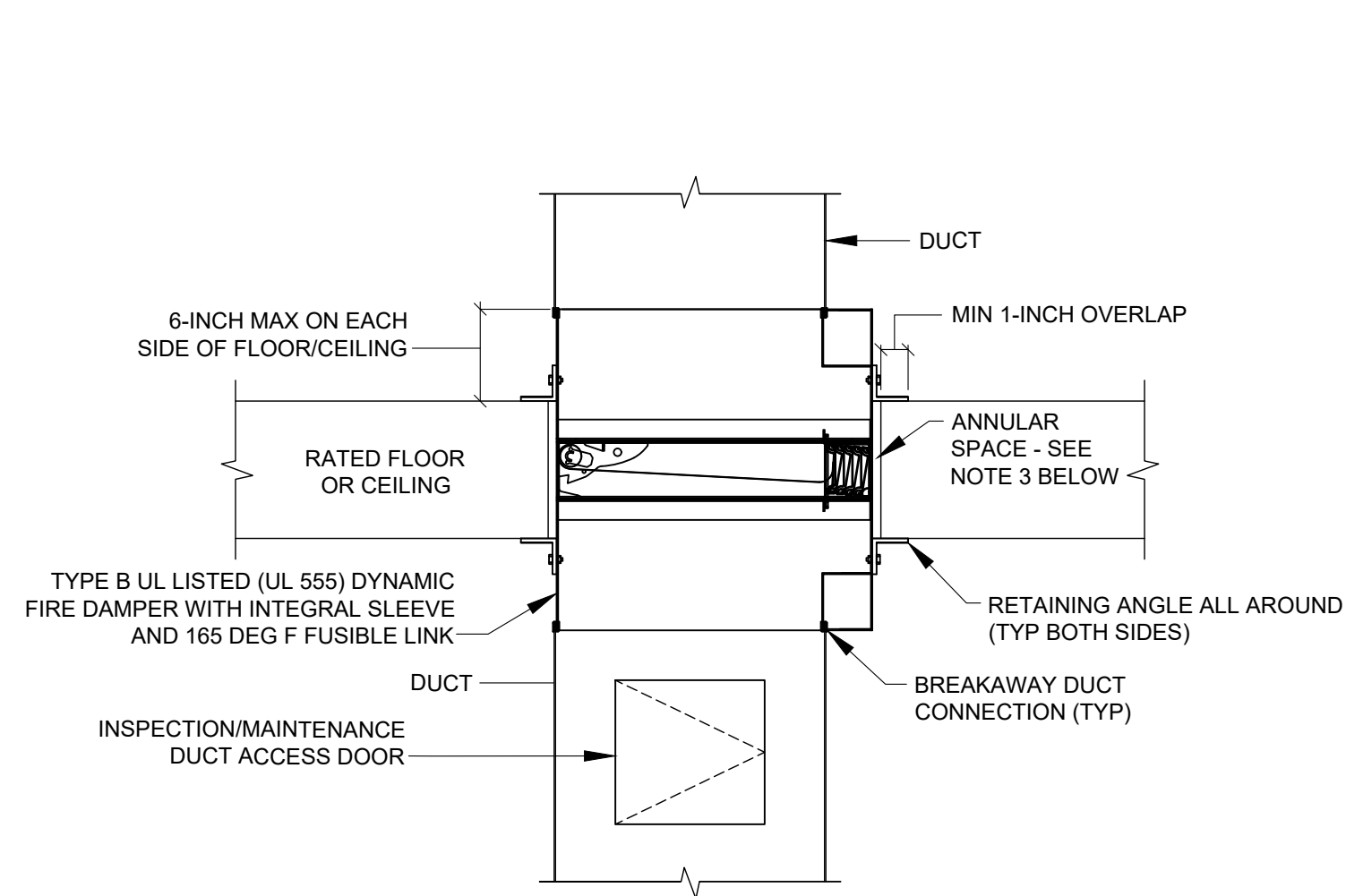
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DETAILS - MECHANICAL

M6.01



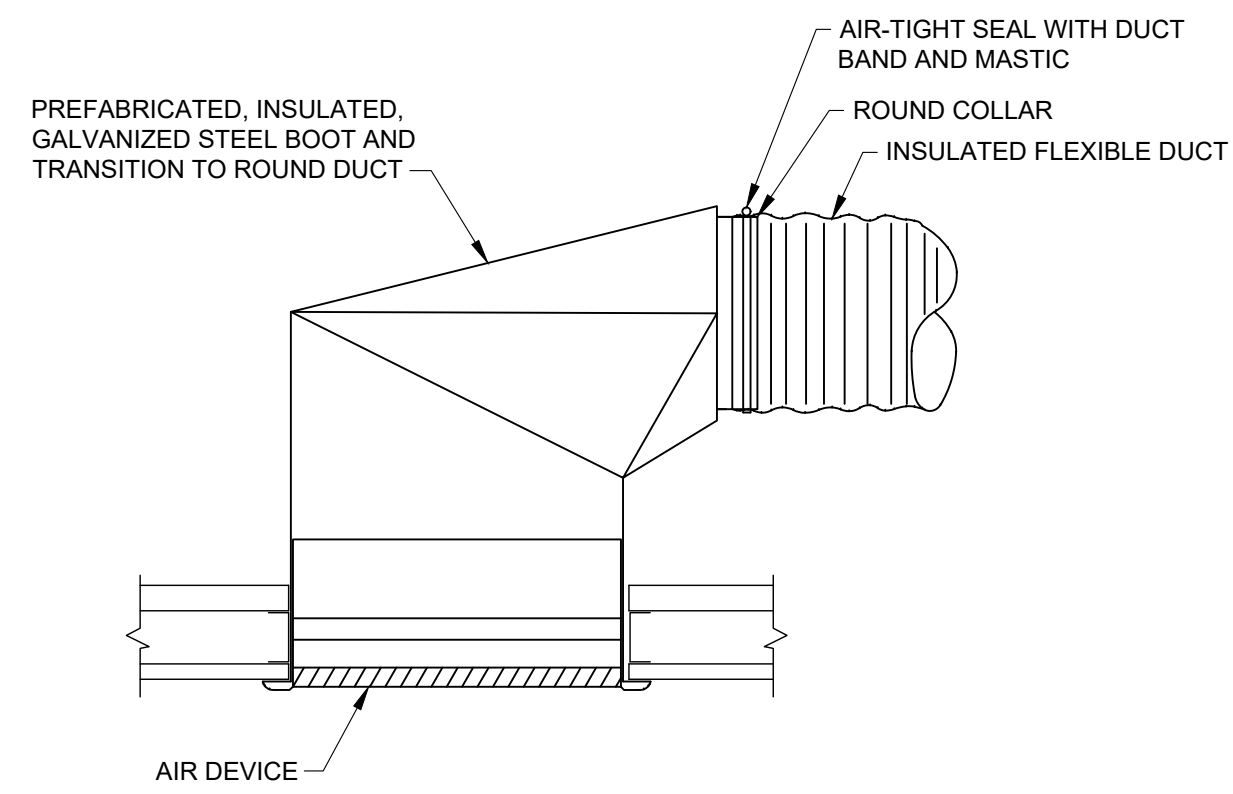
NOTES

- THE DESIGN BASIS IS A GREENHECK DFD-150X, TYPE B FIRE DAMPER. THE ACTUAL INSTALLED FIRE DAMPER'S INSTALLATION MANUAL WILL SUPERCEDE THIS DETAIL AND BE BASED ON THE WALL TYPE IN WHICH IT IS INSTALLED.
- MAINTAIN A COPY OF THE FIRE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS ON SITE AND MAKE AVAILABLE FOR REVIEW BY THE AUTHORITY HAVING JURISDICTION.
- ANNULAR SPACE BETWEEN DAMPER AND WALL OPENING SHALL BE 1/8-INCH PER FOOT OF WIDTH OF DAMPER WITH A MINIMUM CLEARANCE OF 1/4-INCH AND A MAXIMUM CLEARANCE OF 1-1/2-INCHS, UNLESS OTHERWISE RECOMMENDED BY DAMPER MANUFACTURER.
- RETAINING ANGLE GAUGE: RETAINING ANGLES FOR 1-1/2 HOUR RATED DAMPERS WITH A WIDTH AND HEIGHT 48-INCHES OR LESS MUST BE A MINIMUM OF 20 GA. WIDTH OR HEIGHT GREATER THAN 48-INCHES MUST BE A MINIMUM OF 16 GAUGE.
- RETAINING ANGLE SIZE: THE LEG OF THE RETAINING ANGLE ON THE DAMPER SLEEVE SHALL BE A MINIMUM OF 1-1/4-INCHES. THE LEG OF THE RETAINING ANGLE ON THE WALL SHALL BE LONG ENOUGH TO COVER THE ANNULAR SPACE AND OVERLAP THE WALL BY A MINIMUM OF 1-INCH.
- RETAINING ANGLE ATTACHMENT TO SLEEVE: RETAINING ANGLES MUST BE ATTACHED TO THE DAMPER USING ONE OR MORE OF THE FOLLOWING METHODS OF ATTACHMENT (REFER TO LABEL ON OUTSIDE OF SLEEVE FOR "NO SCREW" AREA):
 - #10 (3/4-INCH MAX) SHEET METAL SCREWS
 - 1/4-INCH BOLTS AND NUTS
 - 3/16-INCH STEEL POP RIVETS
- A MINIMUM OF TWO CONNECTIONS PER SIDE, TOP, AND BOTTOM, 12-INCHES O.C. MAXIMUM FOR OPENINGS OF 48-INCHES WIDE AND 36-INCHES HIGH AND LESS. DAMPERS GREATER THAN 48-INCHES WIDE OR 36-INCHES HIGH REQUIRE THE CONNECTIONS TO BE NO MORE THAN 6-INCHES O.C. THE ANGLES MUST BE ATTACHED TO ALL 4 SIDES OF THE SLEEVE. ENSURE THAT FASTENERS DO NOT INTERFERE WITH THE OPERATION OF THE DAMPER.
- RETAINING ANGLE ATTACHMENT TO WALL/FLOOR - FOR TWO-SIDED ANGLE INSTALLATIONS THE RETAINING ANGLES SHALL NOT BE ATTACHED TO THE WALL.
- SLEEVE GAUGE AND CONNECTION TYPE REQUIREMENTS - THE SIZE OF THE DAMPER/DUCT DETERMINES THE REQUIRED SLEEVE GAUGE AND THE REQUIRED DUCT TO SLEEVE CONNECTION (SEE TABLE BELOW). THE SLEEVE THICKNESS MUST ALSO NOT BE LESS THAN THE GAUGE OF THE CONNECTING DUCT. ANY DUCT CONNECTION OTHER THAN THE BREAKAWAY CONNECTIONS DESCRIBED BELOW ARE CONSIDERED RIGID.
- SIZE THE ACCESS DOOR TO ALLOW INSPECTION AND REPLACEMENT OF THE FUSIBLE LINK. SEE TABLE BELOW FOR SIZES.

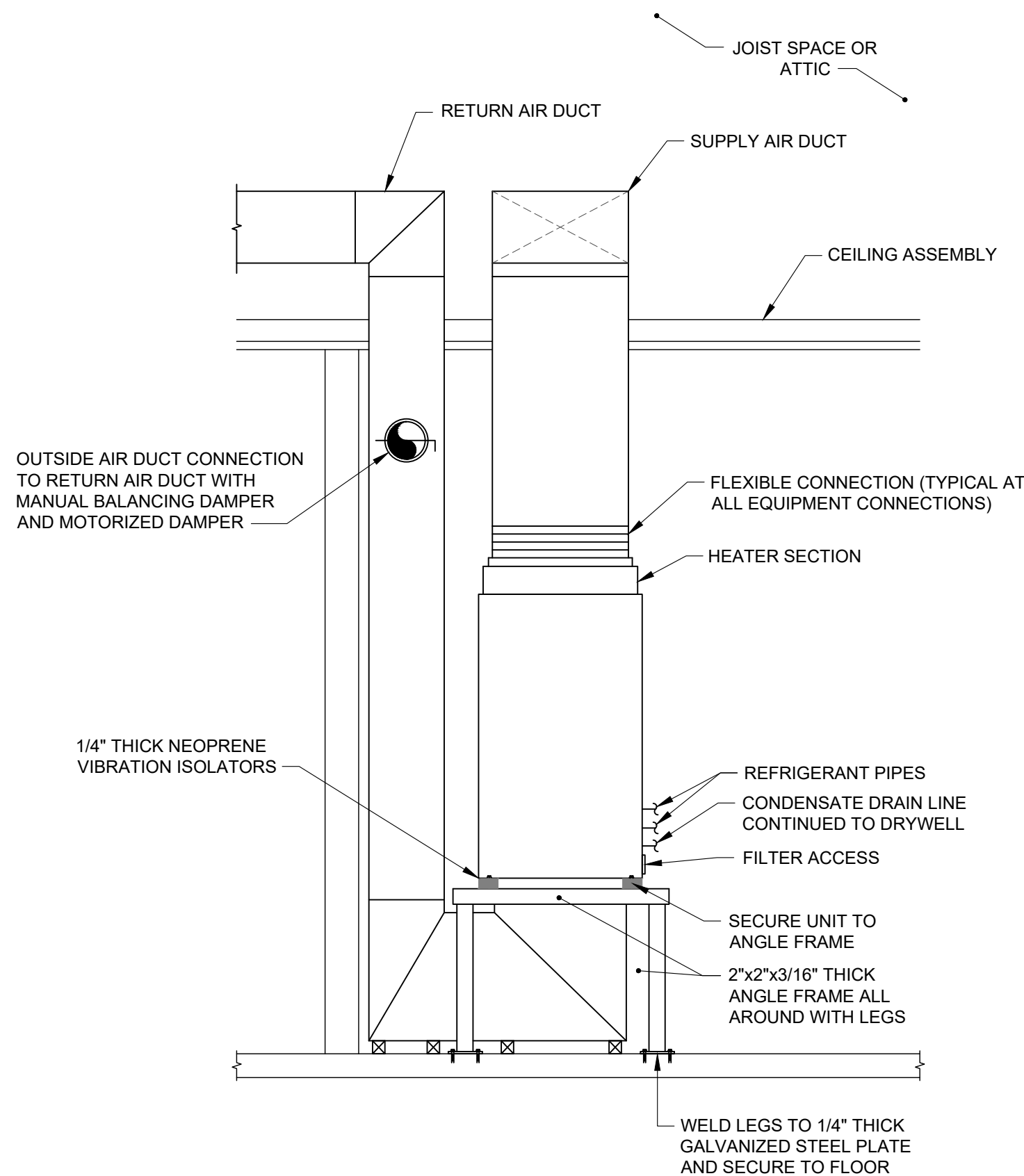
SLEEVE REQUIREMENTS		
SLEEVE GAUGE	DUCT DIMENSIONS	DUCT TO SLEEVE CONNECTION
14 GA - 10 GA	ALL DUCT SIZES	RIGID OR BREAKAWAY
16 GA	36-IN MAX WIDTH 24-IN MAX HEIGHT 24-IN MAX DIA	RIGID OR BREAKAWAY
16 GA	ALL DUCT SIZES	BREAKAWAY ONLY
18 GA	85-IN WIDE AND OVER	
20 GA	55-IN - 84-IN WIDE	
22 GA	31-IN - 54-IN WIDE	
24 GA	13-IN - 30-IN WIDE	
26 GA	12-IN WIDE AND UNDER	

ACCESS DOOR SIZE	
DUCT WIDTH	DOOR SIZE
6" THRU 18"	6"x12"
19" THRU 36"	12"x18"
37" AND ABOVE	18"x18"

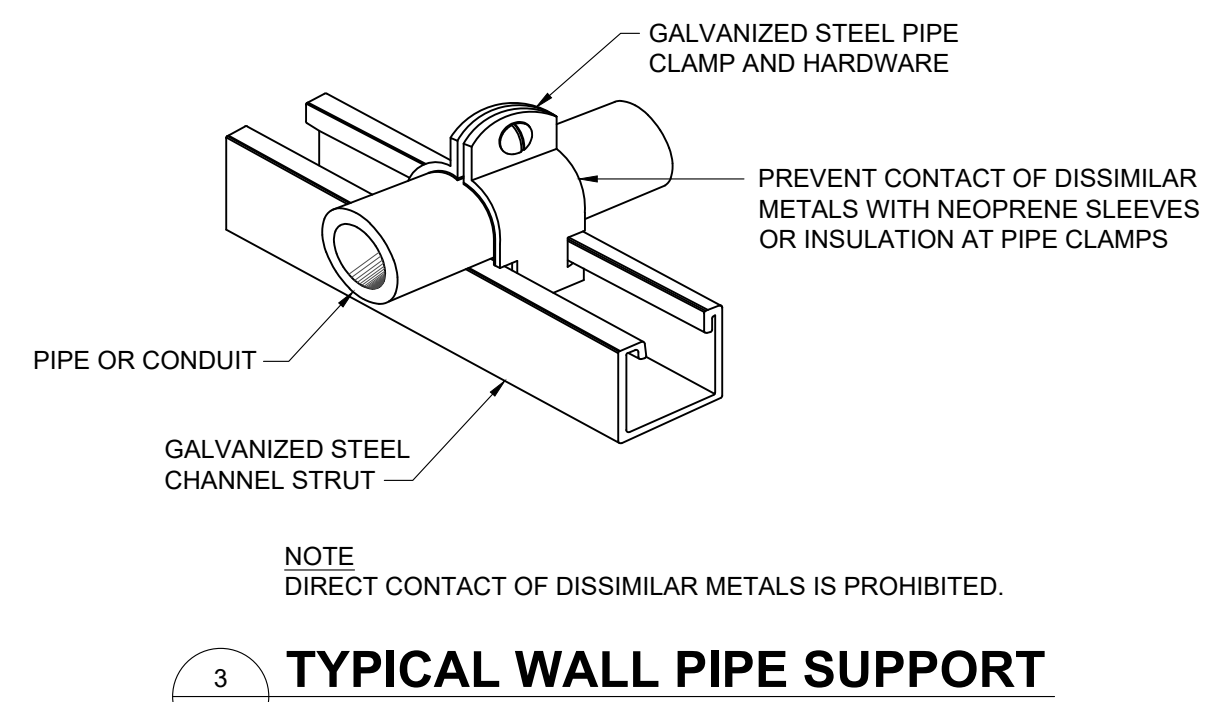
6 TYPICAL 1-1/2 HOUR TYPE B FIRE DAMPER ASSEMBLY
CM6.01 NOT TO SCALE



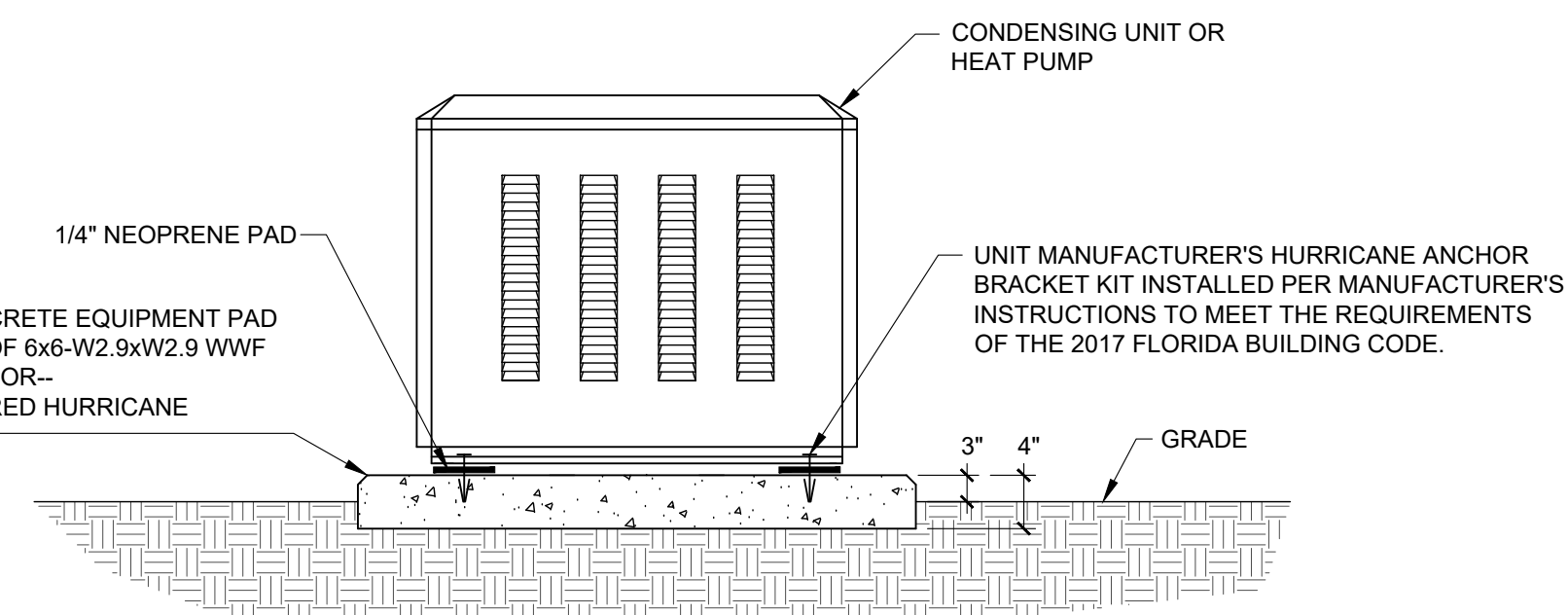
5 TYPICAL FLEXIBLE DUCT TO AIR DEVICE
M6.01 NOT TO SCALE



4 CLUBHOUSE AIR HANDLER SUPPORT DETAIL
M6.01 NOT TO SCALE



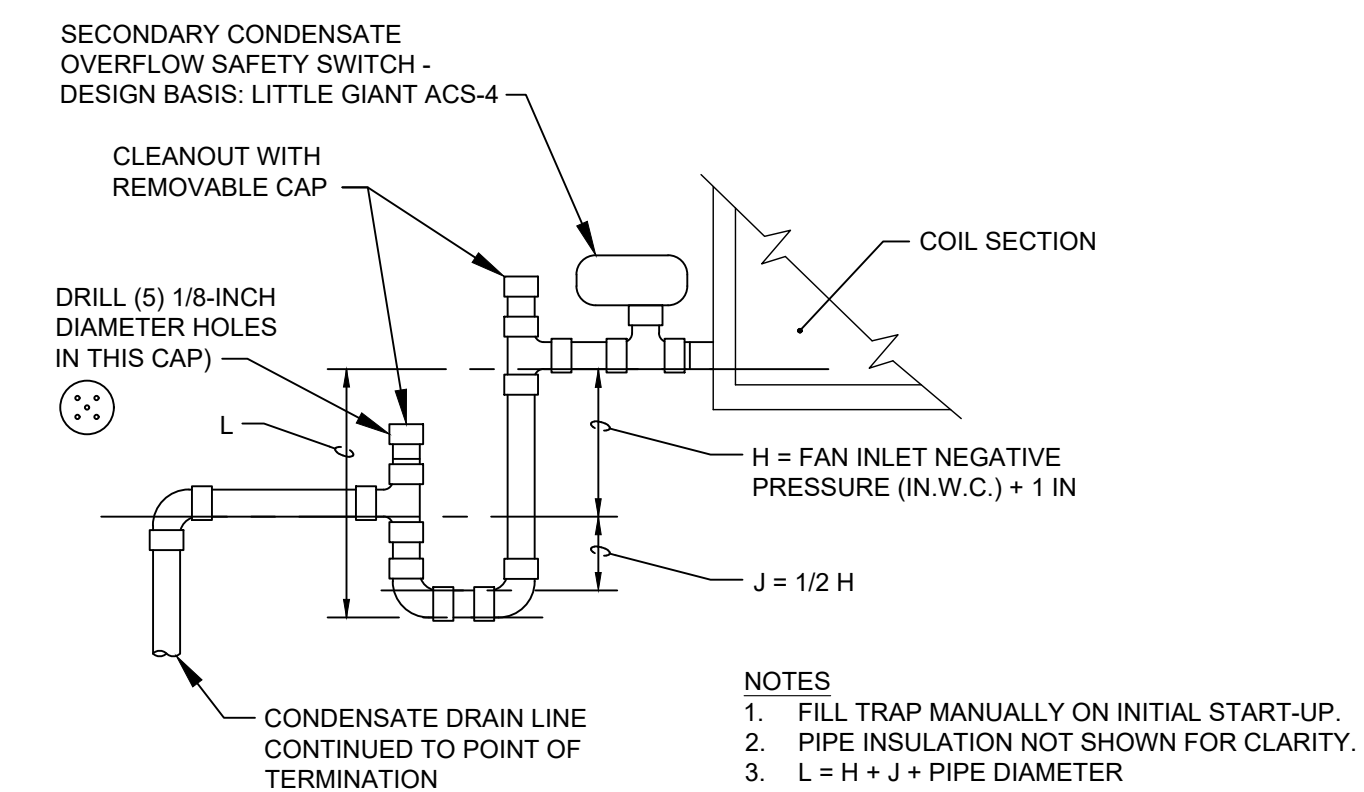
3 TYPICAL WALL PIPE SUPPORT
M6.01 NOT TO SCALE



NOTES

- THIS DETAIL IS TYPICAL FOR CONDENSING UNITS/HEAT PUMPS 5 TONS AND SMALLER.
- SECURE THE EQUIPMENT BRACKETS TO THE CONCRETE PAD WITH TAPCONS (MIN 1-1/2 INCH EMBED).

2 CONDENSING UNIT/HEAT PUMP INSTALLATION DETAIL
M6.01 NOT TO SCALE



NOTES

- FILL TRAP MANUALLY ON INITIAL START-UP.
- PIPE INSULATION NOT SHOWN FOR CLARITY.
- L = H + J + PIPE DIAMETER

1 TYPICAL CONDENSATE DRAIN
M6.01 NOT TO SCALE

PERMIT REVIEW STAMP

ISSUE HISTORY

No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

REVISION HISTORY

No.	Date	Description
1	05/06/20	PERMIT COMMENT RESPONSES



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Checked:	RDP
Approved:	JAK
Date:	09/10/2019
Project #:	5592

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DETAILS - MECHANICAL

CM6.01