

**Chuy's - Mueller**

2027 Aldrich Street  
 Austin, TX 78723

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**Change Memo**

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06/08/2023

No.	Description	Date
1	LLCITY COMMENTS	06/01/23
	PERMIT SET	03/17/23

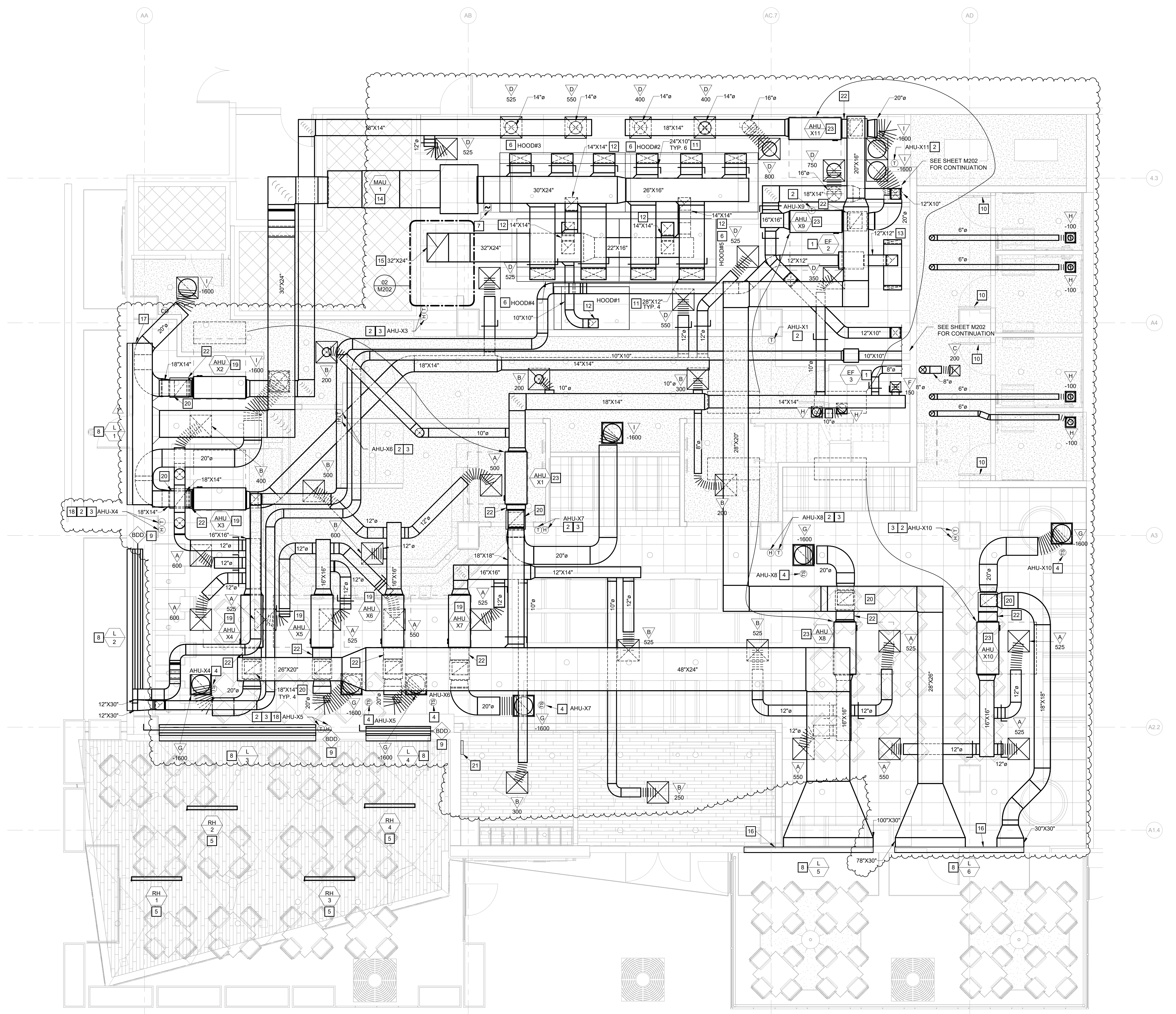
Drawn by: EKE  
 Checked by: CLK  
 Project Number: 04-21858  
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**MECHANICAL PLAN**

**M201**

**MECHANICAL KEY NOTES**

- INSTALL OWNER FURNISHED INLINE EXHAUST FAN SUPPORT UNIT FROM STRUCTURE ABOVE WITH CHANNEL AND ALL-THREAD ROD WITH SPRING VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTORS ON THE DUCT CONNECTIONS. TRANSITION FROM FAN DISCHARGE TO DUCT SIZE SHOWN AND EXTEND TO LOUVER.
- PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER AND AUTOMATIC START CAPABILITY FOR AIR HANDLING UNIT. THERMOSTAT SHALL BE HONEYWELL Wi-Fi VISION PRO 8000. MOUNT AT 48" ABOVE FINISHED FLOOR. PROVIDE ACRYLIC TAMPER PROOF LOCKABLE COVER.
- PROVIDE HUMIDITY SENSOR. MOUNT SENSOR 18" BELOW CEILING DIRECTLY ABOVE THERMOSTAT. HUMIDITY SENSOR SHALL CONTROL REFRIGERATION SYSTEM AND INITIATE RAWAL DEVICE AS REQUIRED TO MAINTAIN SPACE HUMIDITY AT 55% RH.
- PROVIDE REMOTE TEMPERATURE SENSOR COMPATIBLE WITH THERMOSTAT. MOUNT SENSOR ON CEILING WITHIN 12" OF RETURN GRILLE.
- PROVIDE RADIANT HEATER. MOUNT HEATER PER MANUFACTURER'S INSTRUCTIONS. VERIFY FINAL MOUNTING HEIGHT WITH CHUY'S CONSTRUCTION MANAGER.
- INSTALL OWNER FURNISHED TYPE I GREASE EXHAUST HOOD. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE TRAPEZE HANGERS FOR ALL THREAD SUPPORT UNDER DUCTWORK AS REQUIRED. TRANSITION FROM HOOD CONNECTIONS TO KITCHEN EXHAUST DUCT SIZES SHOWN. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR HOOD SPECIFICATIONS.
- DUCT MOUNTED SMOKE DETECTOR FURNISHED BY FIRE ALARM CONTRACTOR AND INSTALLED IN DUCT BY MECHANICAL CONTRACTOR. INTERLOCK WIRING BETWEEN FIRE ALARM SYSTEM RELAY AND UNIT SHUTDOWN CONTACT SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. ALL OTHER WIRING BY FIRE ALARM CONTRACTOR. UPON DETECTION OF SMOKE, UNIT SHALL SHUT DOWN UPON SIGNAL FROM FIRE ALARM SYSTEM.
- PROVIDE LOUVER IN WALL. MOUNT BOTTOM OF LOUVER 13'-6" ABOVE FINISHED FLOOR. SEE ARCHITECTURAL ELEVATIONS FOR DETAILS.
- PROVIDE RUSKIN COUNTERBALANCED BACKDRAFT DAMPER MODEL CBD4 FULL SIZE OF LOUVER. MOUNT PER MANUFACTURER'S RECOMMENDATIONS. MAXIMUM STATIC PRESSURE LOSS THROUGH DAMPER SHALL BE 0.03" W.G.
- UNDERCUT DOOR 1" FOR TRANSFER AIR.
- BALANCE MAKE-UP AIR TAPS ON HOOD TO MATCH AIRFLOWS SHOWN ON HOOD DRAWINGS.
- TRANSITION FROM HOOD COLLAR TO DUCT SIZE SHOWN AND EXTEND GREASE EXHAUST DUCTWORK TO CHASE AND UP TO ROOF. WRAP GREASE DUCT WITH FIREMASTER FASTWRAP XL COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION OR APPROVED EQUAL. FABRICATE DUCT WRAP ENCLOSURE WITH (2) LAYERS OF DUCT WRAP TO PROVIDE 2-HOUR FIRE RATING. DUCT WRAP SYSTEM MUST COMPLY WITH ALL FIVE FIRE TESTS OF STANDARD ASTM E2336. GREASE DUCT ENCLOSURE SYSTEM.
- TRANSITION 20 GAUGE TYPE 304 S.S. ALL WELDED EXHAUST DUCT FROM DISHWASHER EXHAUST COLLAR ON PANT LEG FITTING TO DUCT SIZE SHOWN. EXTEND DUCT TO SHAFT AND UP TO ROOF AS SHOWN. SLOPE DUCT 1/4" PER FOOT DOWN TOWARD PANT LEG FITTING. CONNECT DISHWASHER EXHAUST DUCT TO PANT LEG EXHAUST FITTING. PANT FITTING PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- INSTALL OWNER FURNISHED INLINE MOUNTED MAKE-UP AIR UNIT. INSTALL UNIT LEVEL FOR PROPER CONDENSATE DRAINAGE. SUPPORT UNIT FROM STRUCTURE ABOVE WITH CHANNEL AND ALL-THREAD ROD WITH SPRING VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTOR ON DUCT CONNECTIONS. MAINTAIN ALL MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.
- DUCT UP TO ROOF. REFER TO SHEET M203 FOR CONTINUATION.
- BLANK OFF UNUSED PORTION OF LOUVER. PROVIDE SHEET METAL CAP AND INSULATE WITH ACOUSTICAL DUCT LINER.
- PROVIDE MINIMUM 24" DEEP INSULATED PLENUM FULL SIZE OF LOUVER.
- INSULATE EXTERIOR WALL BEHIND THERMOSTAT AND CAULK WIRE PENETRATION THROUGH WALL.
- EXISTING LANDLORD PROVIDED AIR HANDLING UNIT TO REMAIN. PROVIDE FLEXIBLE CONNECTORS ON THE SUPPLY AND RETURN AIR DUCT CONNECTIONS.
- CONNECT OUTSIDE AIR (O/A) DUCT TO MIXING BOX AND EXTEND TO LOUVER.
- PROVIDE RADIANT HEATER CONTROL PANEL MOUNT 48" ABOVE FINISHED FLOOR.
- PROVIDE MERV13 FILTER BOX. BETWEEN AIR HANDLING UNIT AND MIXING BOX.
- RELOCATE LANDLORD PROVIDED AIR HANDLING UNIT. INSTALL UNIT LEVEL FOR PROPER CONDENSATE DRAINAGE. SUPPORT UNIT FROM STRUCTURE ABOVE WITH CHANNEL AND ALL-THREAD ROD WITH SPRING VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTORS ON THE SUPPLY AND RETURN AIR DUCT CONNECTIONS.



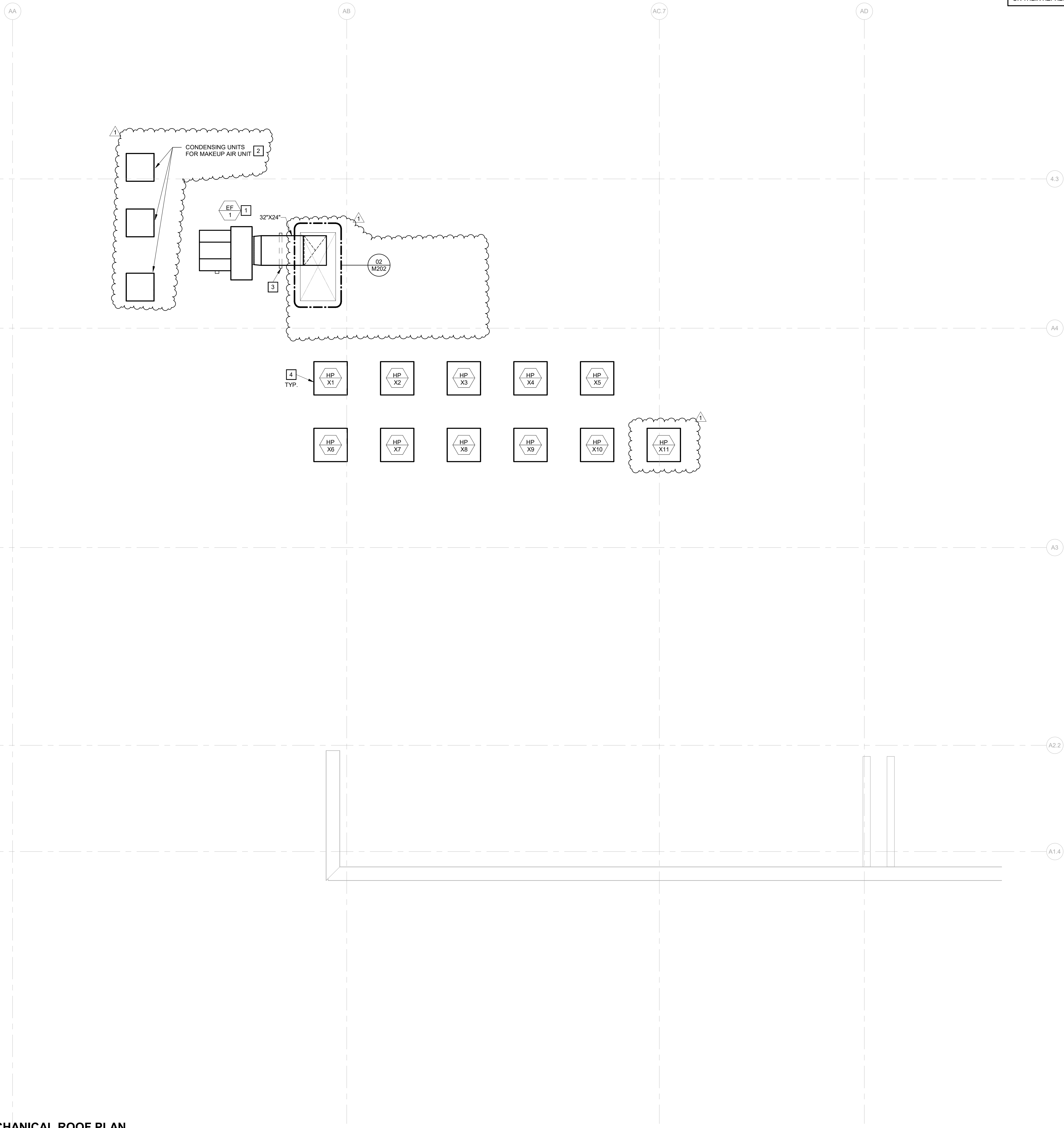


**REFRIGERANT PIPING NOTE**

REFRIGERANT PIPE(S) SIZES SHALL BE DETERMINED BY THE COMPRESSORIZED EQUIPMENT MANUFACTURER OR THEIR REPRESENTATIVE, WHO SHALL ALSO DETERMINE THE NEED FOR DOUBLE SUCTION PIPE RISERS, ACCUMULATORS AND OTHER APPURTENANCES REQUIRED FOR PROPER LONG TERM OPERATION OF THE EQUIPMENT. REFRIGERANT PIPE(S) SIZING AND ROUTING SHALL MEET ALL SYSTEM OPERATING CONDITIONS. THE CONTRACTOR SHALL PROVIDE TO THE OWNER AND ENGINEER LETTERS AND DRAWINGS THAT ADEQUATELY DEPICT THE REFRIGERANT PIPING AND COMPONENTS, AND INDICATE THE RECOMMENDATIONS PROVIDED TO THEM BY THE MANUFACTURER OR THEIR REPRESENTATIVE.

**MECHANICAL KEY NOTES**

- 1 INSTALL OWNER FURNISHED UTILITY SET EXHAUST FAN AND ROOF RAILS.
- 2 PROVIDE ROOF MOUNTED EQUIPMENT RAILS AND INSTALL OWNER FURNISHED CONDENSING UNIT FOR MAKEUP AIR UNIT. PROVIDE REFRIGERANT LINE SET AND ALL FURNISHED ACCESSORIES PER MANUFACTURER. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS.
- 3 PROVIDE ROOF MOUNTED DUCT SUPPORTS.
- 4 LANDLORD PROVIDED HEAT PUMP CONDENSING UNIT AND ROOF MOUNTED EQUIPMENT RAIL. VERIFY EXISTING LOCATION IN FIELD PRIOR TO BID. PROVIDE REFRIGERANT PIPING FROM AIR HANDLING UNIT TO HEAT PUMP CONDENSING UNIT. PROVIDE ROOF PENETRATIONS AND SUPPORTS. INSULATE SUCTION LINE WITH 1" THICK ARMAFLEX AP PAINT INSULATION LOCATED OUTDOORS WITH ARMAFLEX WB FINISH. TRAP AND SLOPE LINES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S RECOMMENDED ACCESSORIES FOR LONG LINE LENGTH.



**CONSTRUCTION ARCHITECTURE**

**PKNY**

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 Contact: 214-111-1111

**Architect:** Project Architect  
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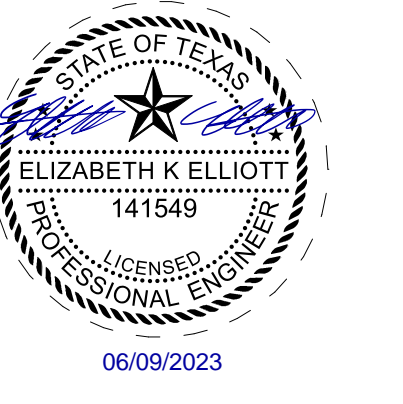
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Drawn by: EKE  
 Checked by: CLK  
 Project Number: 04-21858  
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**MECHANICAL ROOF PLAN**

**M203**



### GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	NECK SIZE (L"XW")	FACE SIZE (L"XW")	FRAME TYPE	FINISH	NOISE CRITERIA LEVEL	ACCESSORIES	NOTES
A	TITUS	TMS-AA	SQUARE CONE	24"X24"	24"X24"	LAY-IN	NOTE 1	<30		
B	TITUS	TMS-AA	SQUARE CONE	24"X24"	24"X24"	LAY-IN	NOTE 1	<30		
C	TITUS	TMS-AA	SQUARE CONE	PER PLAN	12"X12"	LAY-IN	NOTE 1	<30		
D	TITUS	PAR-AA	PERFORATED FACE	PER PLAN	24"X24"	LAY-IN	NOTE 1	<30		
E	TITUS	300FS	REGISTER	12"X10"	14"X12"	SURFACE	NOTE 1	<30		OBD
F	TITUS	TMS-AA	SQUARE CONE	PER PLAN	12"X12"	LAY-IN	NOTE 1	<30		
G	TITUS	350FL	LOUVERED	22"X22"	24"X24"	LAY-IN	NOTE 1	<30		
H	TITUS	350FL	LOUVERED	10"X10"	12"X12"	LAY-IN	NOTE 1	<30		<varies>
I	TITUS	350FL	LOUVERED	22"X22"	24"X24"	LAY-IN	NOTE 1	<30		OBD,STR,TRM 2

ACCESSORIES: OBD-OPPOSED BLADE DAMPERS, STR-SQUARE TO ROUND TRANSITION, TRM-RAPID MOUNT TRIM FRAME

NOTES:  
 1. ALL GRILLES, REGISTERS, AND DIFFUSERS EXPOSED TO THE PUBLIC SHALL BE BRUSHED ALUMINUM, UNLESS OTHERWISE NOTED. ALL GRILLES, REGISTERS, AND DIFFUSERS IN KITCHEN SHALL BE WHITE.  
 2. PROVIDE SQUARE TO ROUND TRANSITION WHERE SHOWN ON PLAN WITH ROUND CONNECTION.

### EXISTING AIR HANDLING UNIT SCHEDULE

MARK (AHU#)	MANUFACTURER	MODEL	AIR FLOW (CFM)	EXT. S.P. (IN. W.C.)	DX COOLING COIL			ELECTRIC HEAT			MCA (AMPS)	MOCF (AMPS)	APPROX. WEIGHT (LBS)	NOTES				
					TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	INPUT (WATTS)	TOTAL (BTU/HR)	INPUT (WATTS)	OUTPUT (BTU/HR)								
X1	GOODMAN	ASPT61D14	1,600	400	0.8	78,764.8	53,300	46,370	0	--	--	208	1	1.0	8.6	15	120	1-5
X2	GOODMAN	ASPT61D14	1,600	400	0.8	78,764.8	53,300	46,370	11,250	38,400	1	208	1	1.0	8.6	15	120	1-6
X3	GOODMAN	ASPT61D14	1,600	400	0.8	78,764.8	53,300	46,370	0	--	--	208	1	1.0	8.6	15	120	1-5
X4	GOODMAN	ASPT61D14	1,600	400	0.8	80,066.2	53,300	46,370	0	--	--	208	1	1.0	8.6	15	120	1-5
X5	GOODMAN	ASPT61D14	1,600	400	0.8	80,066.2	53,300	46,370	11,250	38,400	1	208	1	1.0	8.6	15	120	1-6
X6	GOODMAN	ASPT61D14	1,600	400	0.8	80,066.2	53,300	46,370	0	--	--	208	1	1.0	8.6	15	120	1-5
X7	GOODMAN	ASPT61D14	1,600	400	0.8	80,066.2	53,300	46,370	11,250	38,400	1	208	1	1.0	8.6	15	120	1-6
X8	GOODMAN	ASPT61D14	1,600	400	0.8	80,066.2	53,300	46,370	0	--	--	208	1	1.0	8.6	15	120	1-5
X9	GOODMAN	ASPT61D14	1,600	400	0.8	78,764.8	53,300	46,370	0	--	--	208	1	1.0	8.6	15	120	1-5
X10	GOODMAN	ASPT61D14	1,600	400	0.8	80,066.2	53,300	46,370	11,250	38,400	1	208	1	1.0	8.6	15	120	1-6
X11	GOODMAN	ASPT61D14	1,600	400	0.8	78,764.8	53,300	46,370	0	--	--	208	1	1.0	8.6	15	120	1-5

NOTES:  
 1. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH.  
 2. PROVIDE MIXING BOX WITH LOW LEAK DRY BULB OUTSIDE AIR ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTICS.  
 3. SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. OUTSIDE AIR DAMPER SHALL FULLY CLOSE ON UNIT SHUTDOWN.  
 4. PROVIDE 5 DAY PROGRAMMABLE THERMOSTAT WITH AUTO CHANGEOVER AND AUTO ADJUSTABLE START.  
 5. PROVIDE CONDENSATE OVERFLOW SWITCH.  
 6. CONTRACTOR TO PROVIDE 19KW STRIP HEATER TO BE INSTALLED IN FIELD. HEATER REQUIRES SEPARATE POWER CONNECTION. MCA: 38 MOCF: 40.

### EXISTING HEAT PUMP CONDENSING UNIT

MARK (HP#)	MANUFACTURER	MODEL	SEER	AMBIENT OAT (FDB)	HEAT PUMP HEATING			PHYSICAL DATA			ELECTRICAL			APPROX. WEIGHT (LBS)	NOTES
					TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	INPUT (WATTS)	NO. OF FANS	NO. OF COMP.	VOLTAGE	PHASE	MCA (AMPS)	MOCF (AMPS)		
X1	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X2	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X3	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X4	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X5	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X6	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X7	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X8	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X9	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X10	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5
X11	GOODMAN	GSZ140601K	14	110	56,500	59,000	8.5	1	1	208	1	34	60	300	1-5

NOTES:  
 1. ELECTRICAL PROVIDED DISCONNECT SWITCH.  
 2. PROVIDE WITH CONDENSER COIL HALL GUARDS.  
 3. PROVIDE LIQUID LINE SIGHT GLASS, MOISTURE INDICATOR, AND FILTER DRYER FOR EACH CIRCUIT.  
 4. PROVIDE 5 MINUTE TIME DELAY ON COMPRESSOR RESTART.  
 5. PROVIDE WITH MODULATING RAWL DEHUMIDIFICATION.

### EXHAUST AND VENTILATION FAN SCHEDULE

MARK (EF#)	MANUFACTURER	MODEL	TYPE	DRIVE	PERFORMANCE			ELECTRICAL			SERVES	APPROX. WEIGHT (LBS)	NOTES		
					AIR FLOW (CFM)	EXT. S.P. (IN. W.C.)	FAN SPEED (RPM)	VOLTAGE	PHASE	MOTOR HP				MCA (AMPS)	MOCF (AMPS)
1	CAPTIVEAIRE	US180V1RM	INLINE	DIRECT	11,907	1.0	1,299	120	1	0.18	2.4	15	80	4.5,6.7	ALL HOODS
2	CAPTIVEAIRE	SIF1DD-SS	INLINE	DIRECT	600	1.0	1,299	120	1	0.18	2.4	15	80	3.5,6.7	DISHWASHER
3	CAPTIVEAIRE	SIF1DD	INLINE	DIRECT	400	1.0	1,299	120	1	0.18	2.4	15	80	4.5,6.7	TOILETS

NOTES:  
 1. VARIABLE FREQUENCY DRIVE IS PROVIDED WITH HOOD CONTROL PANEL.  
 2. FAN SHALL BE CONTROLLED BY SWITCH AT CAPTIVEAIRE HOOD. ELECTRICALLY INTERLOCK AHU-X1,X2,X3,X8 AND MAU-1 TO OPERATE IN OCCUPIED MODE WHILE KITCHEN EXHAUST FAN IS ENERGIZED.  
 3. ELECTRICAL CONTRACTOR SHALL INTERLOCK FAN TO OPERATE WITH KITCHEN LIGHTS.  
 4. OWNER FURNISHED EQUIPMENT.  
 5. PROVIDE WITH FACTORY BACKDRAFT DAMPER.  
 6. PROVIDE WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.  
 7. PROVIDE WITH GREASE DRAIN AND CUP.

### MAKEUP AIR UNIT SCHEDULE - OWNER FURNISHED

MARK (MAU#)	MANUFACTURER	MODEL	AIR FLOW (CFM)	EXT. S.P. (IN. W.C.)	COOLING			HEATING			ELECTRICAL			APPROX. WEIGHT (LBS)	NOTES	
					TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	INPUT (WATTS)	TOTAL (BTU/HR)	INPUT (WATTS)	OUTPUT (BTU/HR)	VOLTAGE	PHASE	MOTOR HP			MCA (AMPS)
1	CAPTIVEAIRE	A3-E 1224-240-MFV	6,227	0.75	98,075.0	177,400	138,600	122,000	416,390	480	3	10	16.1	25	2,200	1-6

NOTES:  
 1. FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.  
 2. FACTORY PROVIDED INTAKE HOOD WITH 2" WASHABLE FILTERS.  
 3. FACTORY PROVIDED MOTORIZED INTAKE DAMPERS.  
 4. MOTOR STARTER IS PROVIDED WITH HOOD CONTROL PANEL.  
 5. 3.5-TON CONDENSING UNITS FOR MAU-1 SEPARATE POWER CONNECTIONS REQUIRED AT EACH CONDENSING UNIT. MCA/MOCF IS 10.5/15.  
 6. PROVIDE WITH 122 KW ELECTRIC HEATER. SEPARATE POWER CONNECTION REQUIRED. MCA/MOCF IS 183.4/200.

### RADIANT HEATER SCHEDULE - ELECTRIC HEAT

MARK (RH#)	MANUFACTURER	MODEL	TYPE	ELECTRIC HEAT			ELECTRICAL			APPROX. WEIGHT (LBS)	NOTES
				INPUT (WATTS)	OUTPUT (BTU/HR)	VOLTAGE	PHASE	MCA (AMPS)	MOCF (AMPS)		
1	BROMIC	3000	RADIANT	6,000	10,240	208	1	25	40	50	1-2
2	BROMIC	3000	RADIANT	6,000	10,240	208	1	25	40	50	1-2
3	BROMIC	3000	RADIANT	6,000	10,240	208	1	25	40	50	1-2
4	BROMIC	3000	RADIANT	6,000	10,240	208	1	25	40	50	1-2

NOTES:  
 1. PROVIDE WITH DISCONNECT SWITCH.  
 2. PROVIDE WITH MASTER REMOTE CONTROLLER TO CONTROL ALL HEATERS WITH WIRELESS CONTROL.

### LOUVER SCHEDULE

MARK (L#)	MANUFACTURER	MODEL	TYPE	SIZE (W"X"H")	FREE AREA (SF)	MAX. FACE VELOCITY (FPM)	FINISH	ACCESSORIES	NOTES
1	GREENHECK	ESD-635	STATIONARY DRAINABLE	180"X30"	18.96	394	KYNAR	BS, ES	1
2	GREENHECK	ESD-635	STATIONARY DRAINABLE	180"X30"	18.96	330	KYNAR	BS, ES	1
3	GREENHECK	ESD-635	STATIONARY DRAINABLE	174"X30"	18.1	330	KYNAR	BS, ES	1
4	GREENHECK	ESD-635	STATIONARY DRAINABLE	72"X30"	7.69	330	KYNAR	BS, ES	1
5	GREENHECK	ESD-635	STATIONARY DRAINABLE	144"X30"	15.38	740	KYNAR	BS, ES	1
6	GREENHECK	ESD-635	STATIONARY DRAINABLE	144"X30"	15.38	740	KYNAR	BS, ES	1

ACCESSORIES: BS- BIRDSCREEN, ES-EXTENDED SILL

NOTES:  
 1. COLOR OF FINISH TO BE CHOSEN BY ARCHITECT.

### AIR BALANCE SCHEDULE

OUTSIDE AIR FLOW (CFM)	AHU-1 DINING	AHU-2 KITCHEN	EF-1	EF-2	EF-3	MAU-1	TOTALS
2,400	2,000	0	0	0	0	6,227	10,627
7,200	6,000	0	0	0	0	13,200	
9,600	8,000	0	0	0	0	17,600	
0	15	8,907	600	400	0	9,907	
2,400	2,000	-8,907	-600	-400	0	6,227	

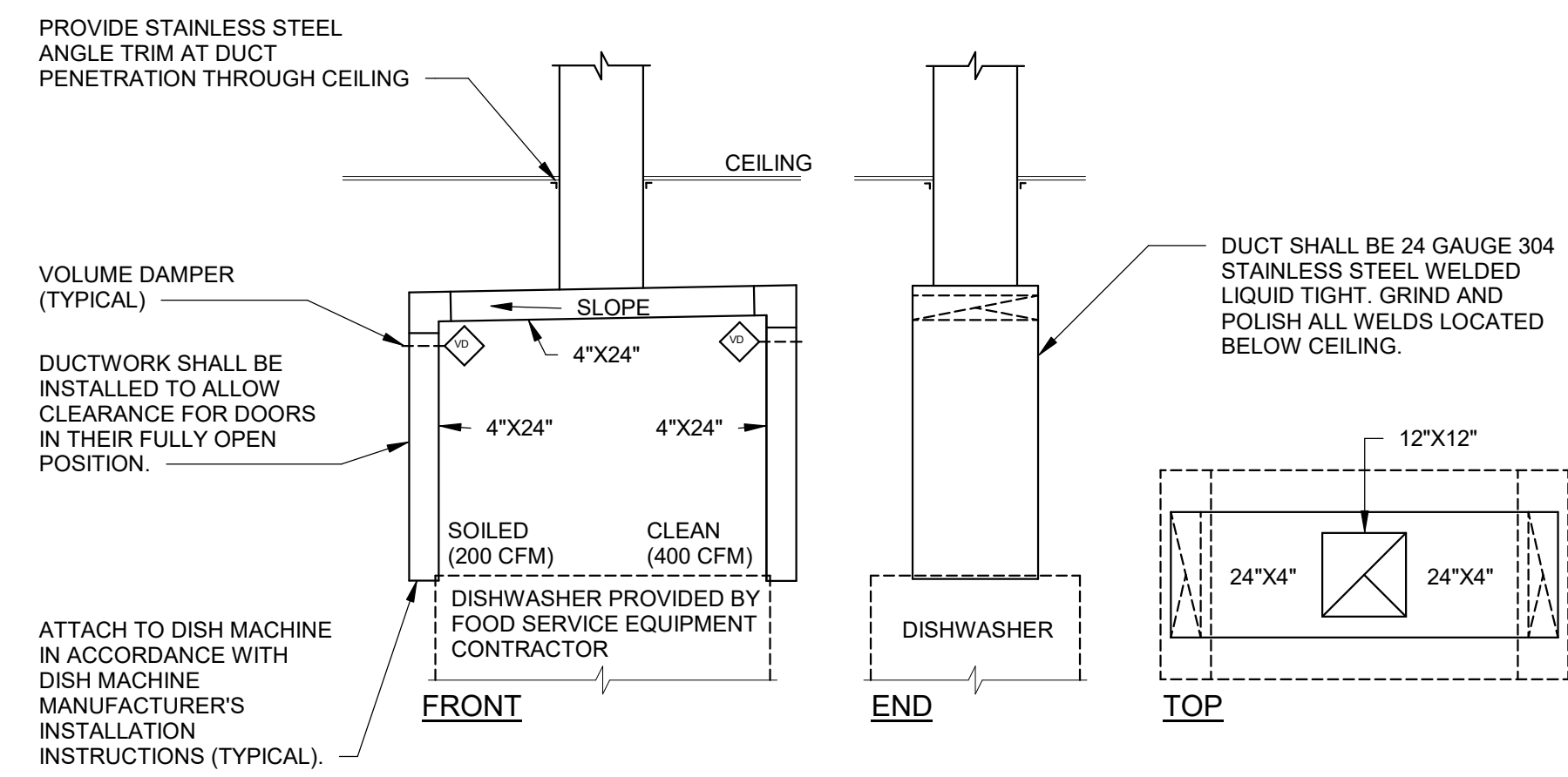
REMARKS: RESULTING BUILDING PRESSURIZATION (CFM) 720

### 2021 UNIFORM MECHANICAL CODE TABLE 402.1 VENTILATION SUMMARY

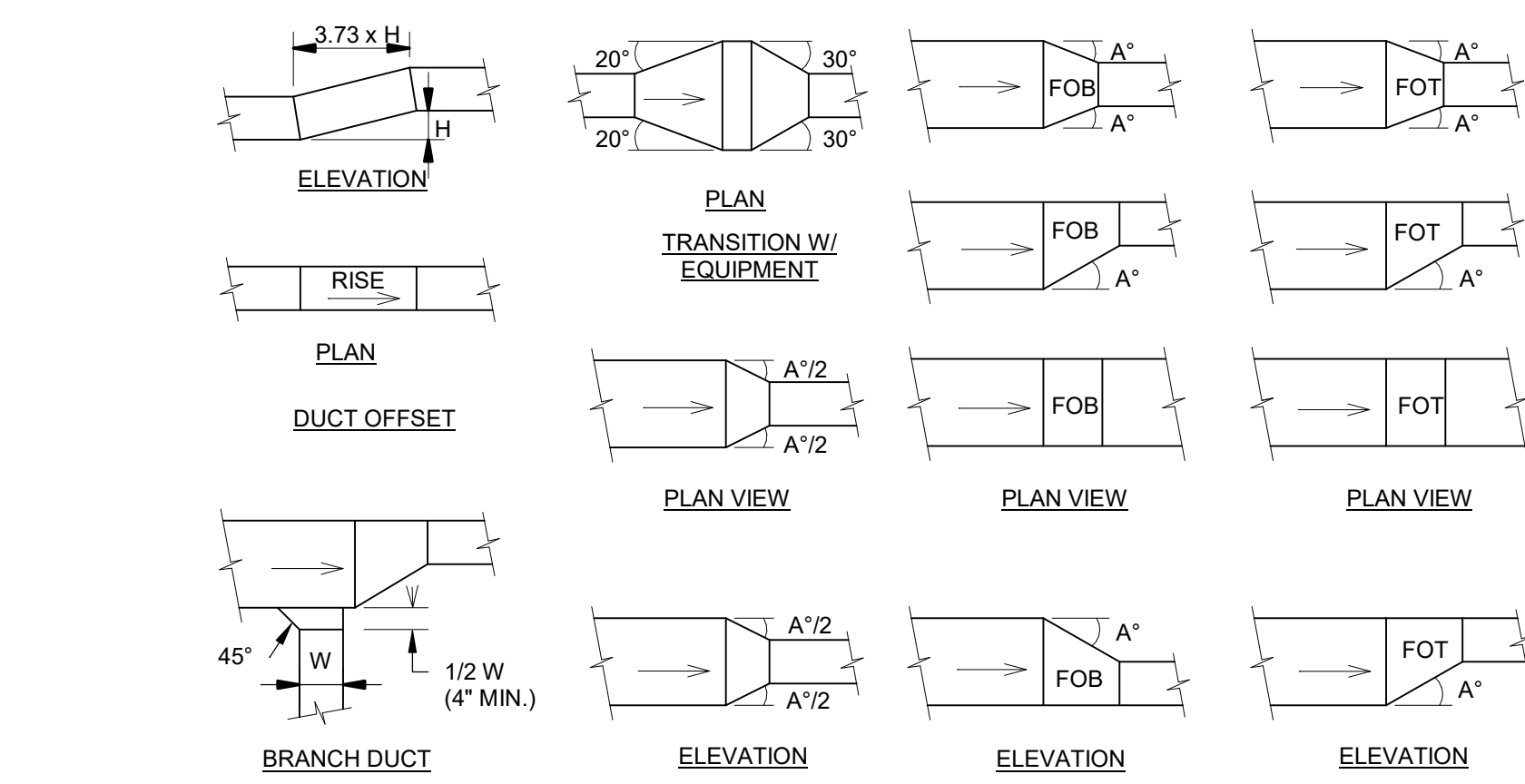
OCCUPANCY CATEGORY	PEOPLE OUTDOOR AIR RATE - (Rp)	AREA OUTDOOR AIR RATE - (Ra)	OCCUPANCY DENSITY	OCCUPANCY CLASSIFICATION	CALCULATED OCCUPANCY DENSITY	Rp/Pz	Ra/Az	AREA - (Az)	ZONE AIR EFFECTIVENESS - Ez	BREATHING ZONE OUTDOOR AIRFLOW - (Vbz)	ZONE OUTDOOR AIRFLOW (Voz)	ZONE PRIMARY AIRFLOW (Vpz)	PRIMARY OUTDOOR AIR FRACTION (Zp)	OCCUPANT DIVERSITY RATIO (D)	UNCORRECTED OUTDOOR AIR INTAKE (Vou)	SYSTEM VENTILATION EFFICIENCY	CORRECTED OUTDOOR AIRFLOW (Vot)	PROVIDED OUTDOOR AIRFLOW
	(CFM/PERSON)	(CFM/SQ.FT.)	P/1,000 SQ.FT.	P/1,000 SQ.FT.				SQ.FT.		CFM	CFM	CFM		CFM	Ev	CFM	CFM	
<b>AHU-X4,X5,X6,X7,X8,X10</b>																		
Toilets	0	0	0	RESTROOM	0	0	0	242	0.8	0	0	200	0.00	0			0	
Entry	5	0.06	10	ENTRY LOBBY	2	10	9	143	0.8	19	23	300	0.08	19		22	19	
Vestibule	0	0.06	0	CORRIDOR	0	0	7	110	0.8	7	8	250	0.04	7		8	7	
Dining	7.5	0.18	70	DINING	153	1,148	392	2,177	0.8	1,539	1,924	6,900	0.28	1,539		1,811	1,539	
Corridor	0	0.06	0	CORRIDOR	0	0	12	200	0.8	0	0	50	0.12	0		14	0	
Bar	7.5	0.18	70	BAR	26	195	66	367	0.8	261	326	1,500	0.22	261		307	261	
To Go	5	0.06	10	ENTRY LOBBY	2	10	7	120	0.8	17	22	400	0.06	17		20	17	
<b>AHU-X1,X2,X3,X8,X11</b>																		
Office	5	0.06	5	OFFICE	1	5	5	79	0.8	10	12	150	0.09	10		10	10	
Kitchen	20	0.12	7.5	KITCHEN	16	320	253	2,105	0.8	573	716	7,000	0.11	573		573	573	
Mezzanine	0	0.12	0	STORAGE	0	0	62	520	0.8	62	78	850	0.10	62		62	62	
												8000	1.00	645		645	2,000	

### MECHANICAL GENERAL NOTES

- CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW CONSTRUCTION DOCUMENTS, INFORMATION REGARDING COMPLETE WORK IS DISPERSED THROUGHOUT DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO COMPLETE DOCUMENT SET.
- COORDINATE WITH WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF OWNER AND WITH CONSTRAINTS OF EXISTING CONDITIONS OF PROJECT SITE. PROVIDE DUCT AND PIPE RISERS AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC,



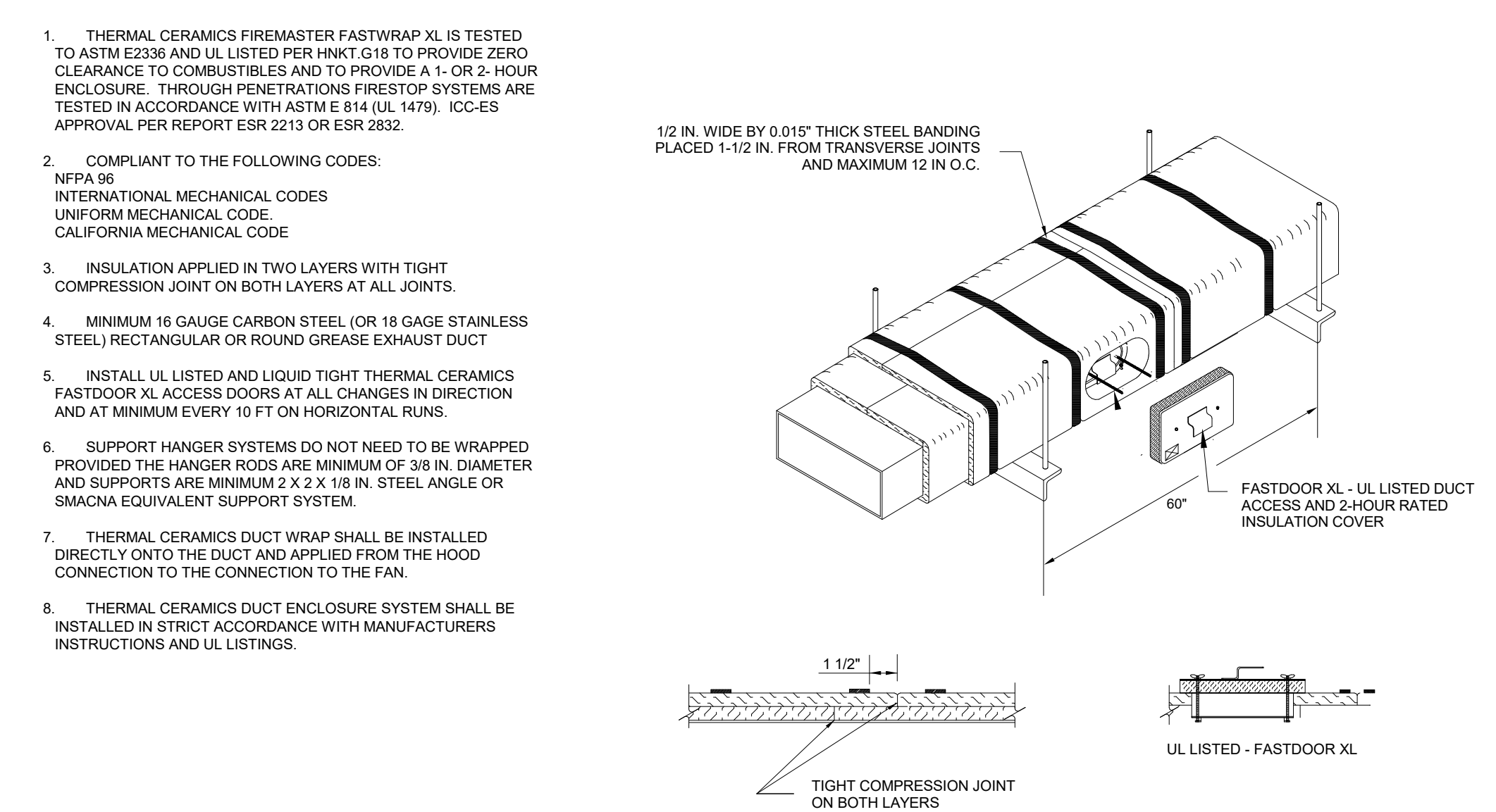
**10 DISHWASHER EXHAUST DUCT DETAIL**  
NOT TO SCALE



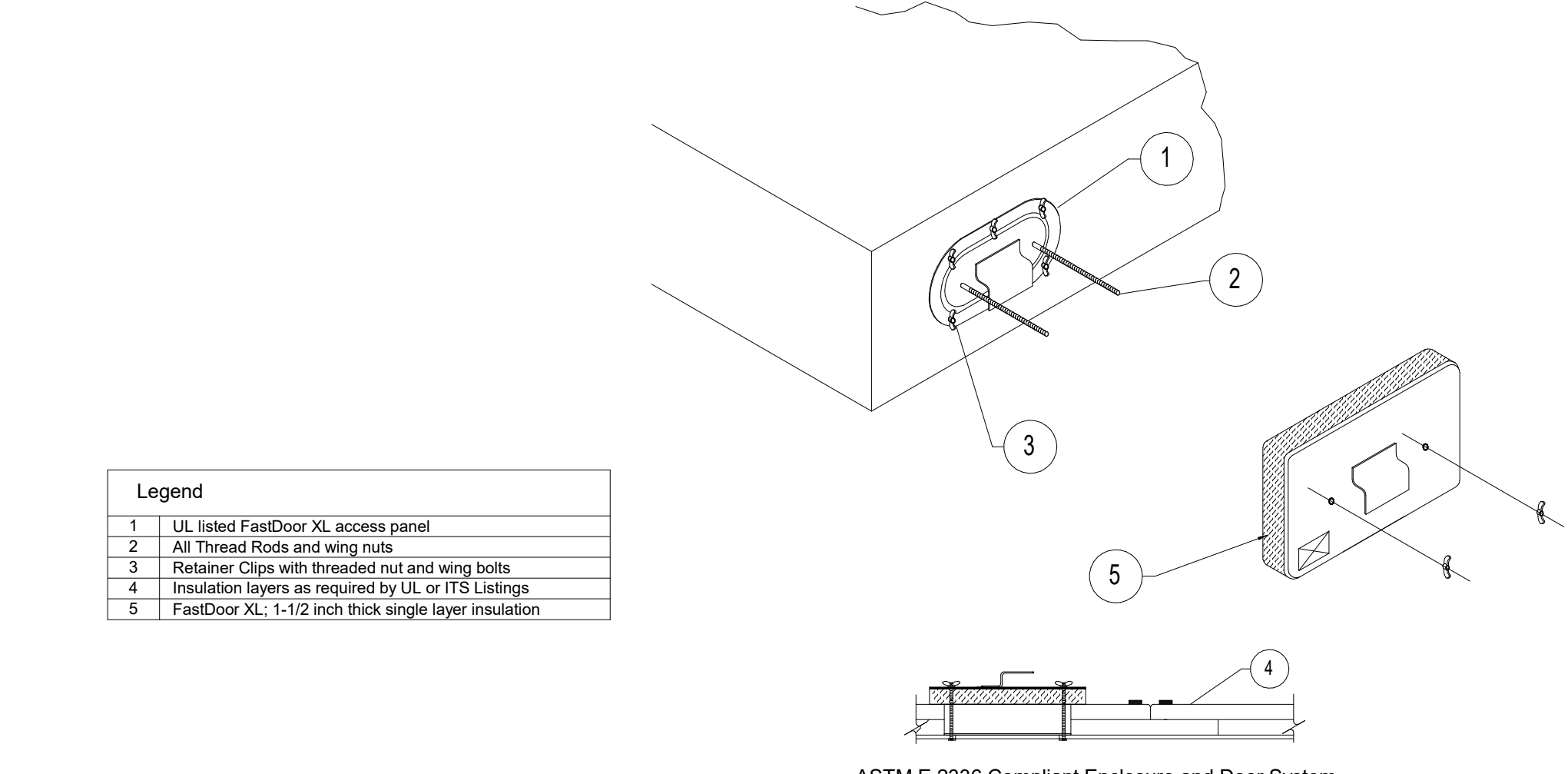
NOTES: 1) ANGLE A = 30° WHEN AIR FLOWS IN DIRECTION OF ARROW (SUPPLY AIR).  
2) ANGLE A = 20° WHEN AIR FLOWS IN OPPOSITE DIRECTION OF ARROW (RETURN OR EXHAUST).

**11 LOW VELOCITY DUCT FITTINGS DETAIL**  
NOT TO SCALE

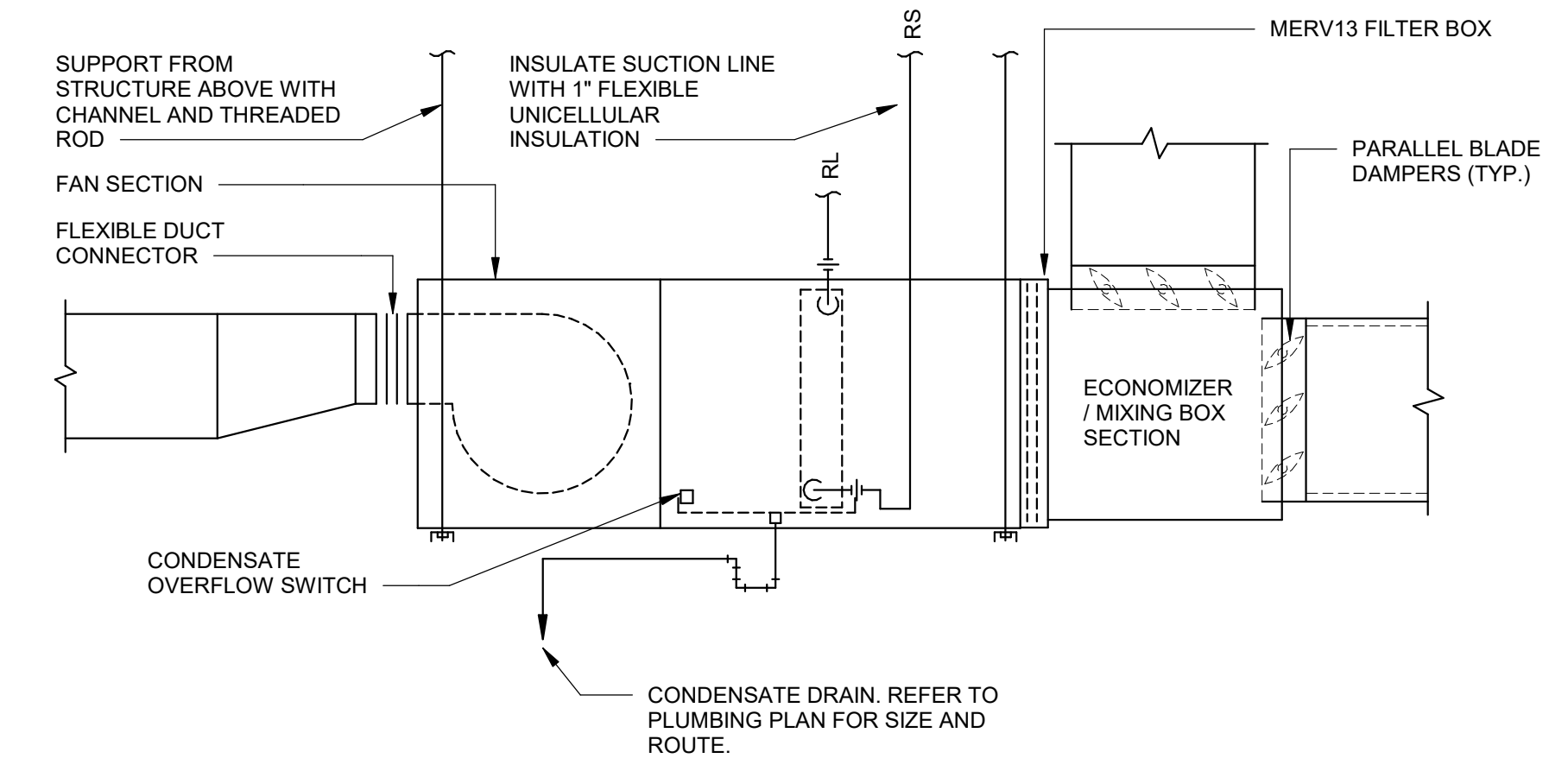
**FIRE RATED ENCLOSURE - GREASE DUCTS**



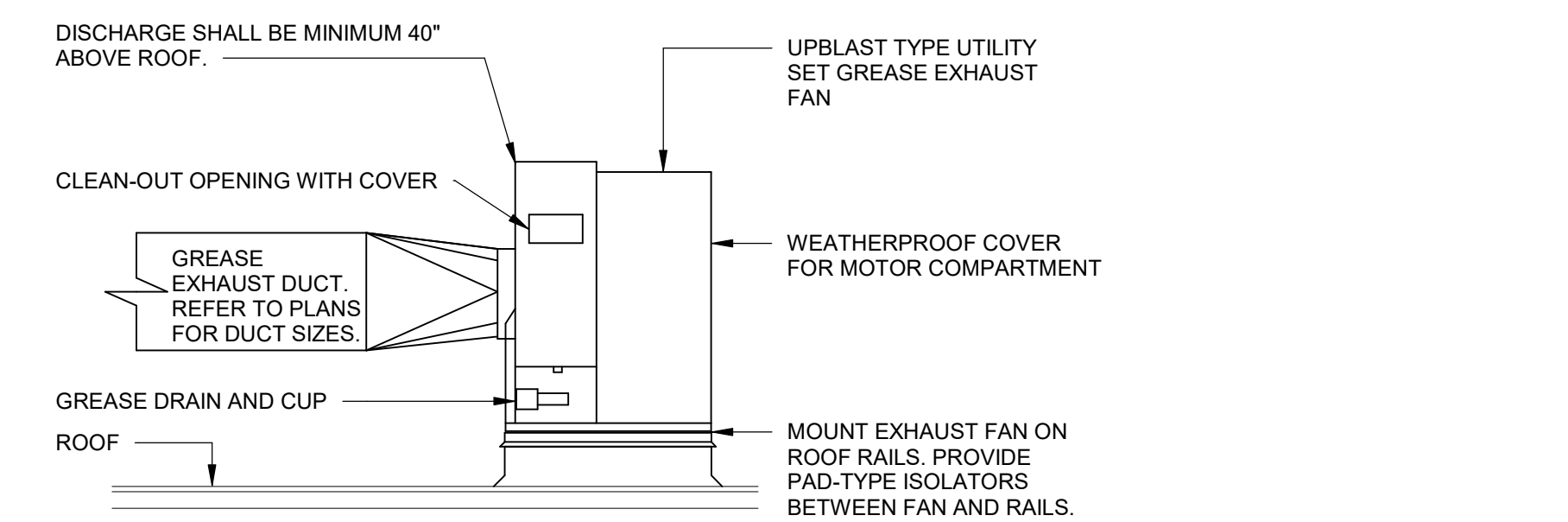
**12 COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION ASSEMBLY DETAIL**  
NOT TO SCALE



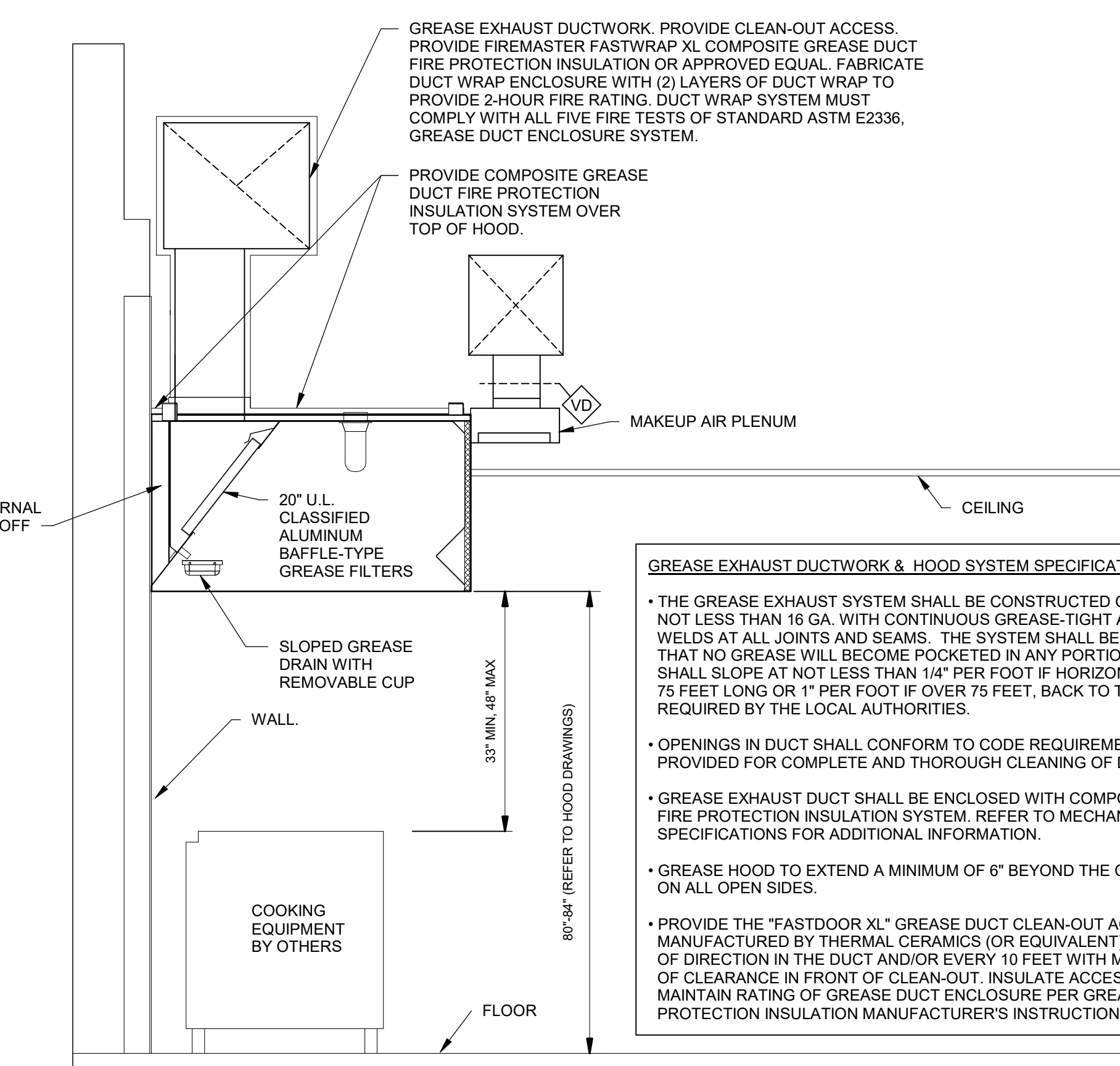
**12 COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION ASSEMBLY DETAIL**  
NOT TO SCALE



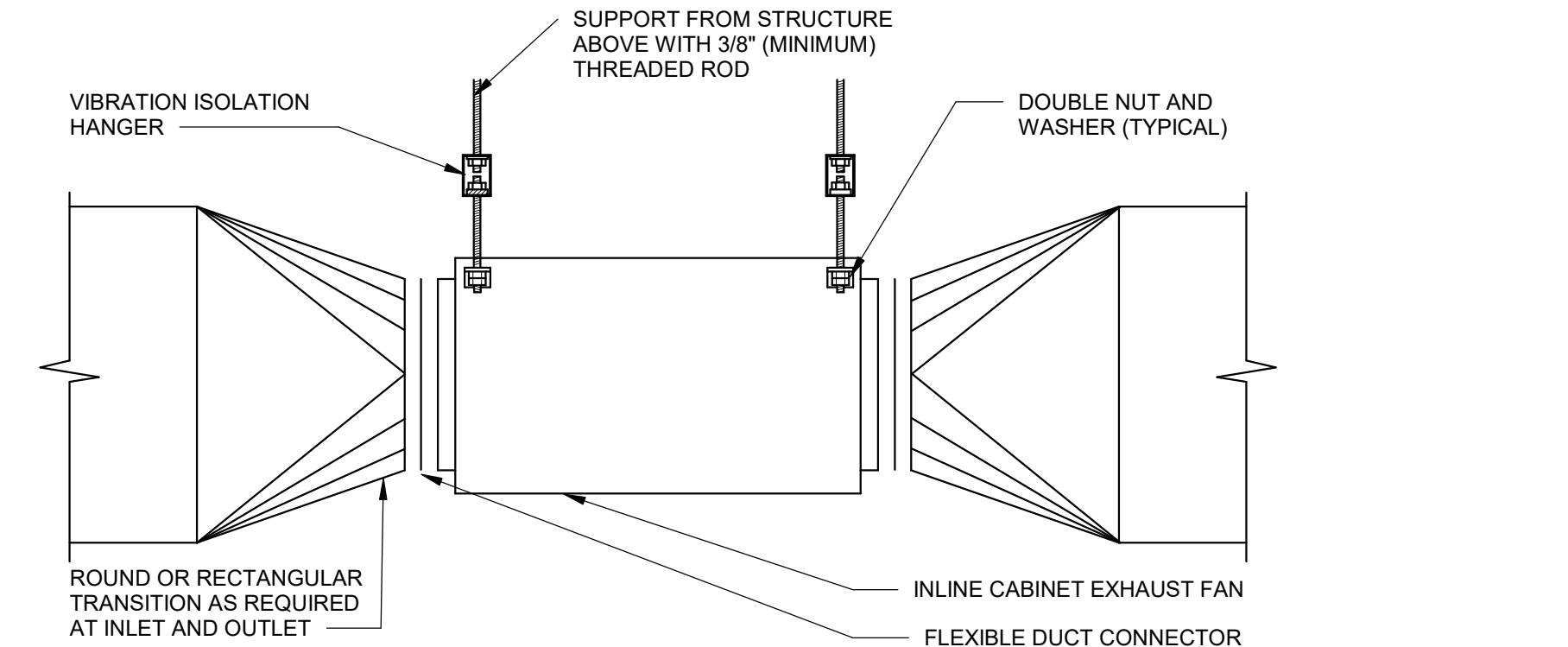
**06 AIR HANDLING UNIT INSTALLATION DETAIL**  
NOT TO SCALE



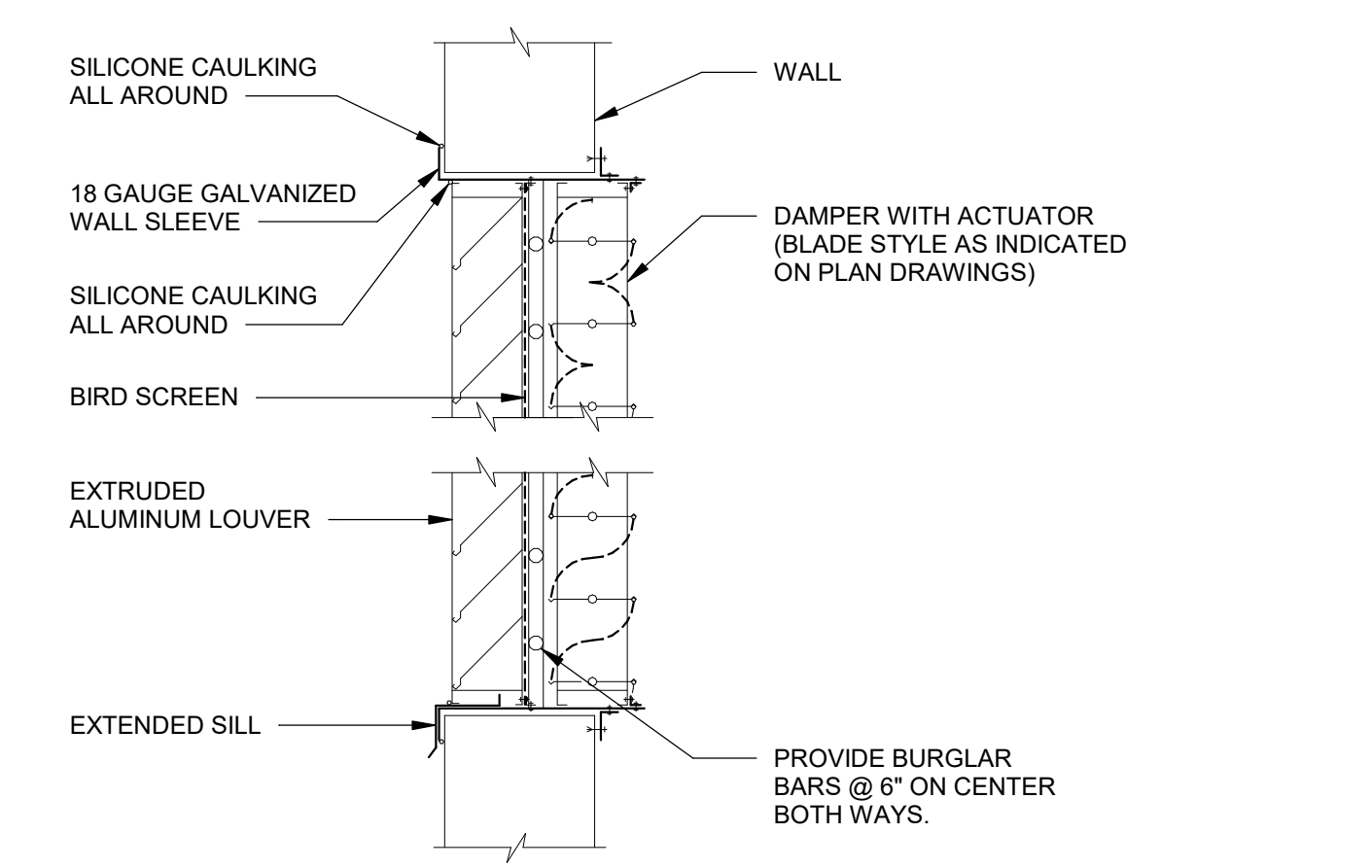
**07 GREASE EXHAUST FAN DETAIL**  
NOT TO SCALE



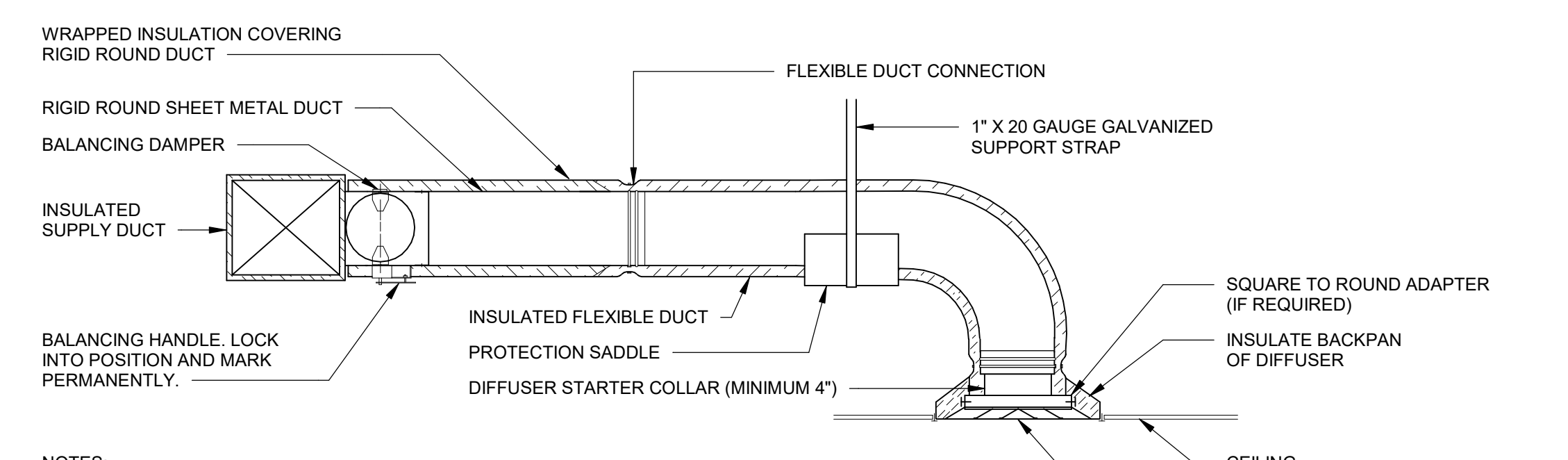
**08 KITCHEN HOOD SCHEMATIC**  
NOT TO SCALE



**09 INLINE CABINET FAN DETAIL**  
NOT TO SCALE

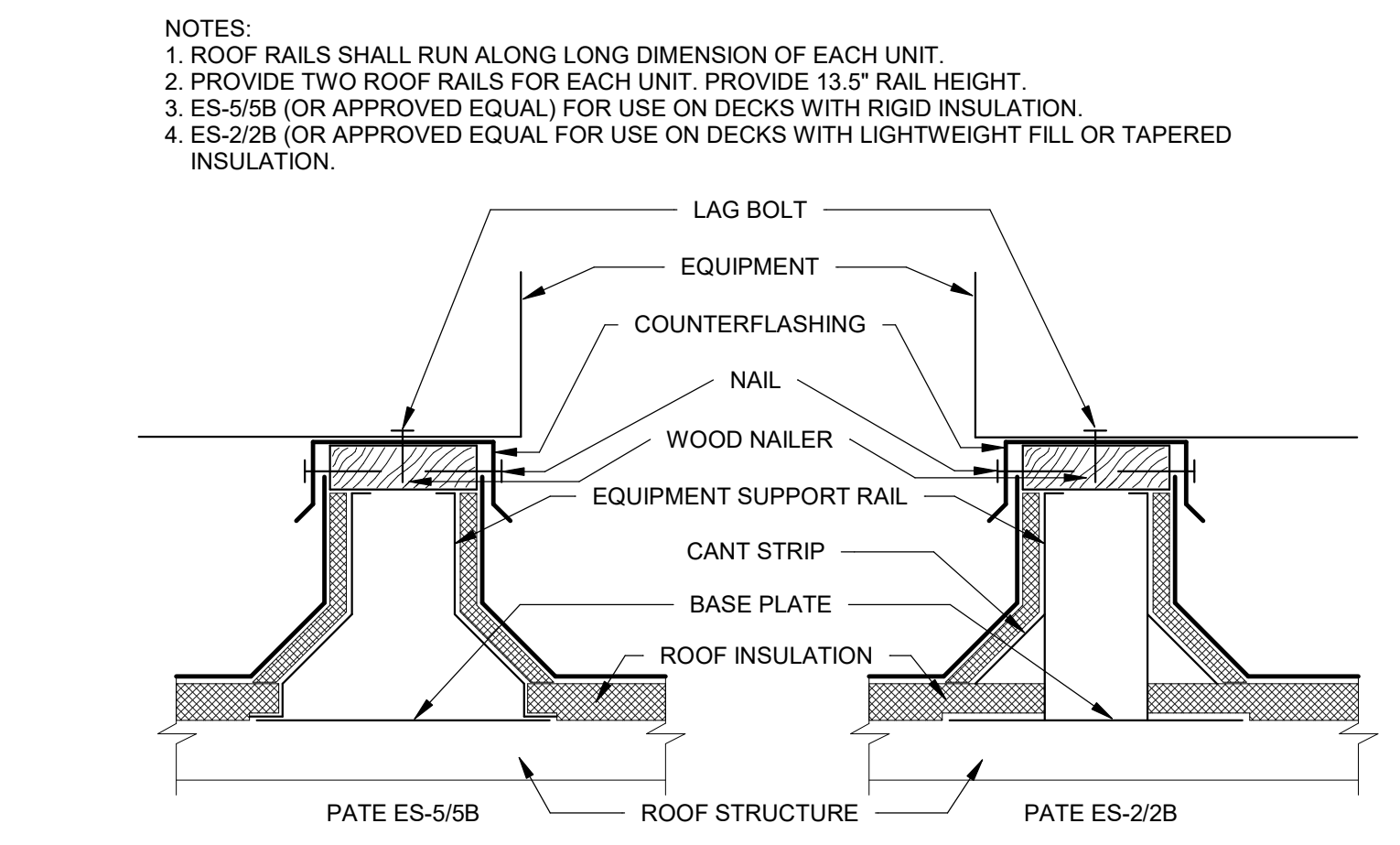


**01 LOUVER WITH DAMPER DETAIL**  
NOT TO SCALE

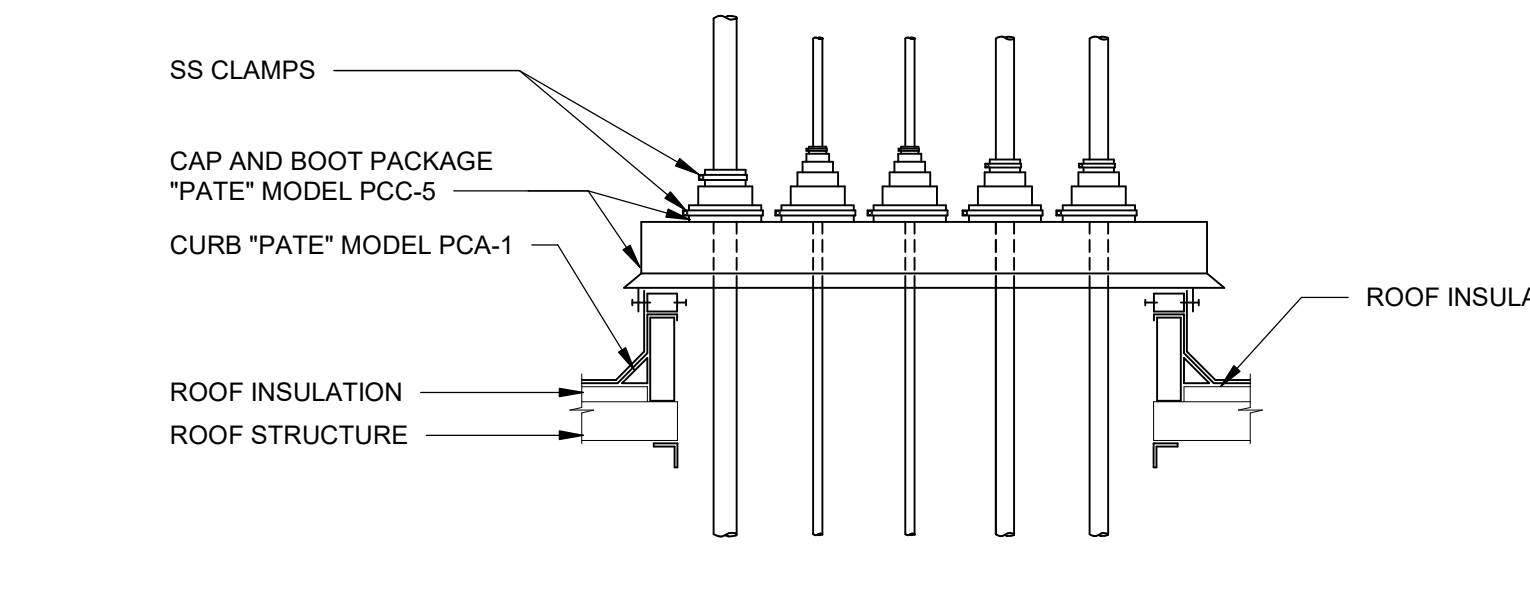


NOTES:  
1. PROVIDE METAL OR "PANDUIT" DRAW BAND AT FLEXIBLE DUCT CONNECTION ON INTERIOR FLEXIBLE DUCT HELIX. SECURE INSULATION OVER DRAW BAND WITH ADDITIONAL DRAW BAND.  
2. PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.  
3. PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF FLEXIBLE DUCT TO ROUND DUCT, DAMPERS, AND DIFFUSERS.  
4. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

**02 DIFFUSER CONNECTION DETAIL - FLEX DUCT**  
NOT TO SCALE

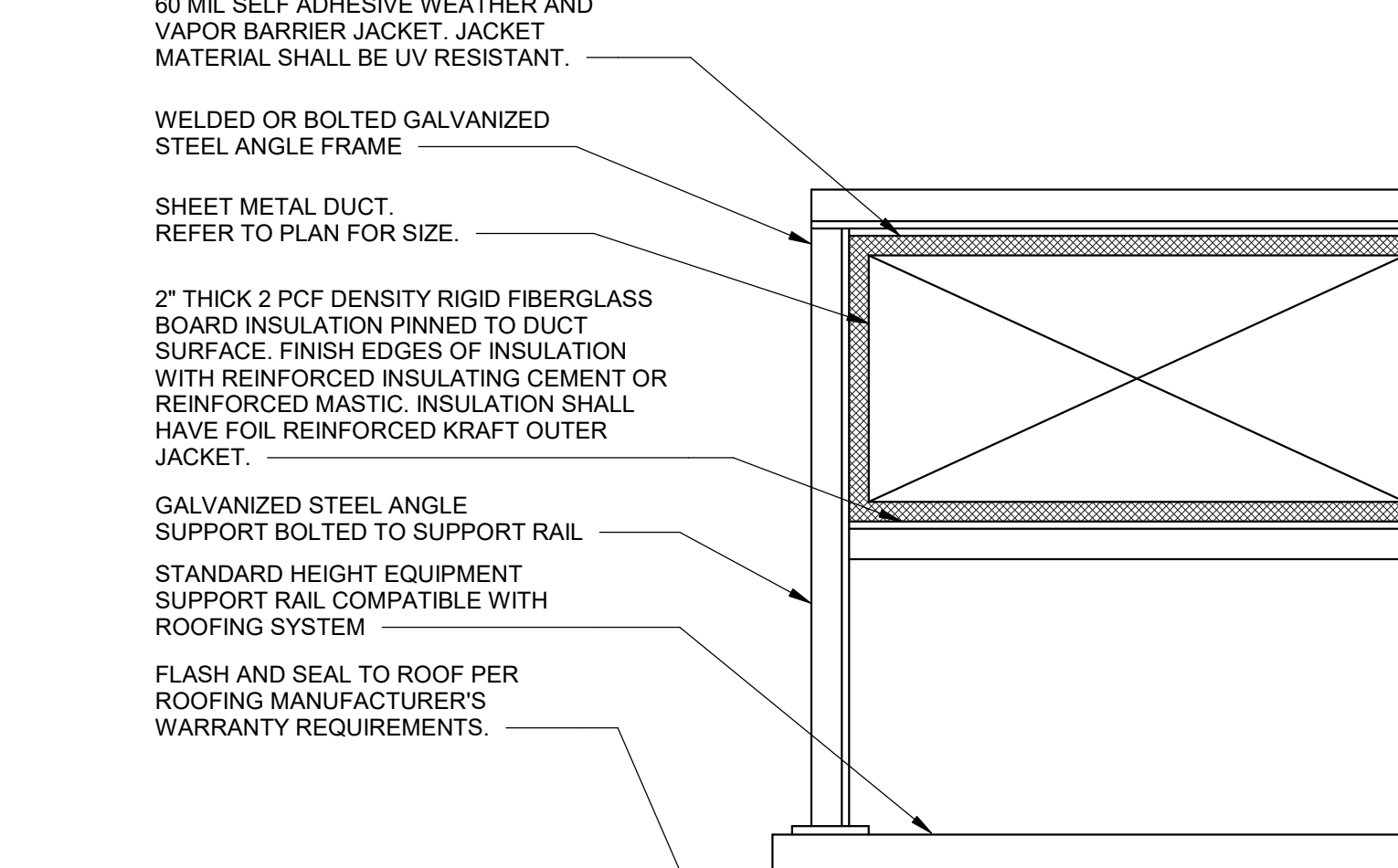


**03 EQUIPMENT SUPPORT RAIL DETAIL**  
NOT TO SCALE

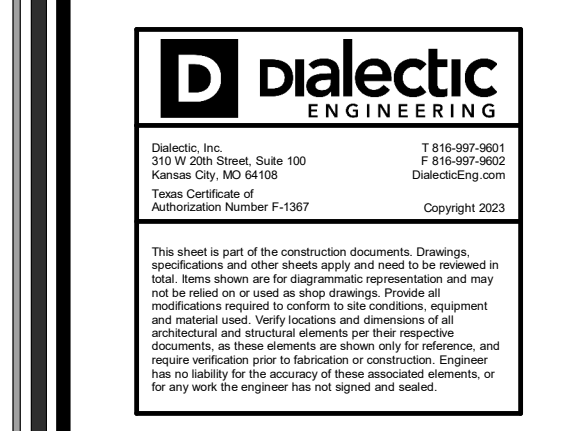


NOTES:  
1. USE SINGLE ROOF PENETRATION FOR ALL CONTROL WIRING, POWER WIRING, AND REFRIGERANT LINES.  
2. INSULATE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

**04 PIPE ROOF PENETRATION DETAIL**  
NOT TO SCALE



**05 EXTERIOR DUCT SUPPORT AND INSTALLATION DETAIL**  
NOT TO SCALE



**Chuy's - Mueller**  
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Austin, TX 78723

**Owner:**  
Chuy's OPCO  
1623 Toomy Road  
Austin, TX 78704  
Ph: (512) 473-2783  
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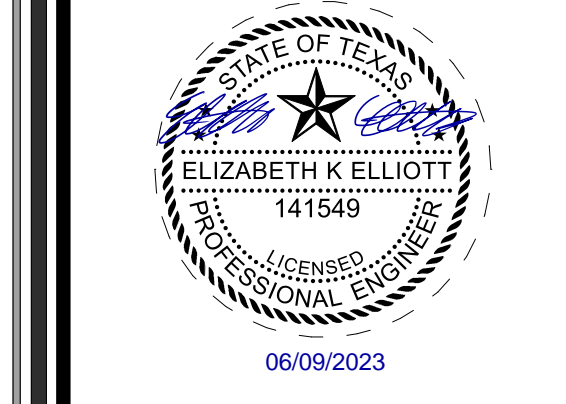
**Architect:**  
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Project Contact: Bill Pounds, AIA

**MEP Engineer:**  
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**Structural Engineer:**  
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**Landscape Architect:**  
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4245 North Central EXPY, Suite 501  
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Ph: (214) 855-7182  
Contact: Kori Haug, ASLA, CLARB

**Change Memo**  
1



No.	Description	Date
PERMIT SET		03/17/23

Drawn by: EKE  
Checked by: CLK  
Project Number: 04-21858  
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**HVAC DETAILS**

**M302**