

- MECHANICAL KEY NOTES**
- 1 PROVIDE UNIT HEATER. MOUNT HEATER 8'-0" ABOVE FINISHED FLOOR FROM STRUCTURE ABOVE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUSPEND FROM STRUCTURE WITH STEEL CHANNEL AND THREADED ROD.
 - 2 PROVIDE RADIANT HEATER. MOUNT HEATER PER MANUFACTURER'S INSTRUCTIONS. VERIFY FINAL MOUNTING HEIGHT WITH CHUY'S CONSTRUCTION MANAGER.
 - 3 PROVIDE HONEYWELL WI-FI VISION PRO 8000 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER AND AUTOMATIC START CAPABILITY FOR ROOFTOP UNIT. MOUNT AT 48" ABOVE FINISHED FLOOR. PROVIDE ACRYLIC TAMPER PROOF LOCKABLE COVER.
 - 4 PROVIDE HUMIDITY SENSOR. MOUNT SENSOR 18" BELOW CEILING DIRECTLY ABOVE THERMOSTAT.
 - 5 TRANSITION FROM HOOD COLLAR TO DUCT SIZE SHOWN AND EXTEND GREASE EXHAUST DUCTWORK TO EXHAUST FAN ON 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.
 - 6 TRANSITION 20 GAUGE TYPE 304 S.S. ALL WELDED EXHAUST DUCT FROM DISHWASHER EXHAUST COLLAR TO DUCT SIZE SHOWN. EXTEND DUCT TO DISHWASHER EXHAUST FAN ON ROOF. SLOPE DUCT 1/4" PER FOOT DOWN TOWARD PART LEG FITTING. CONNECT DISHWASHER EXHAUST DUCT TO PART LEG EXHAUST FITTING. PART FITTING PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
 - 7 PROVIDE HEATING ONLY THERMOSTAT. MOUNT AT 48" ABOVE FINISHED FLOOR. SET THERMOSTAT TO 55°F (ADJUSTABLE).
 - 8 DUCT FROM EQUIPMENT ON ROOF (SEE SHEET M202).
 - 9 PROVIDE YOUNG REGULATOR MODEL 830ACC RECTANGULAR CABLE CONTROLLED OPPOSED BLADE BALANCING DAMPER. MODEL 270-301Z BOWDEN CABLE CONTROL KIT. AND BCW CONTROL WIRE AND CASINGS. COORDINATE INSTALLATION LOCATION WITH ARCHITECT AND MOUNT CABLE CONTROLLER IN CEILING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - 10 PROVIDE INFRARED HEATER CONTROL PANEL.
 - 11 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 WELDED KITCHEN EXHAUST DUCT SIZES SHOWN. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR HOOD SPECIFICATIONS.
 - 12 PROVIDE SHOE TAP AT CONNECTION TO DUCT DROP.
 - 13 INSTALL TEMPERATURE SENSOR FURNISHED WITH HOODS. MOUNT SENSOR 48" ABOVE FINISHED FLOOR.
 - 14 PROVIDE REMOTE TEMPERATURE SENSOR COMPATIBLE WITH THERMOSTAT. MOUNT SENSOR ON CEILING WITHIN 12" OF RETURN GRILLE.
 - 15 INSTALL OWNER FURNISHED PERFORATED SUPPLY PLENUM DIFFUSER. BALANCE TO 250 CFM. REFER TO CAPTIVEAIRE DRAWINGS FOR MORE INFORMATION.
 - 16 MAKEUP AIR DOWN TO FACTORY PLENUM. COORDINATE WITH HOOD MANUFACTURER.
 - 17 BALANCE MAKE-UP AIR TAPS ON HOOD TO MATCH AIRFLOWS SHOWN ON HOOD DRAWINGS.

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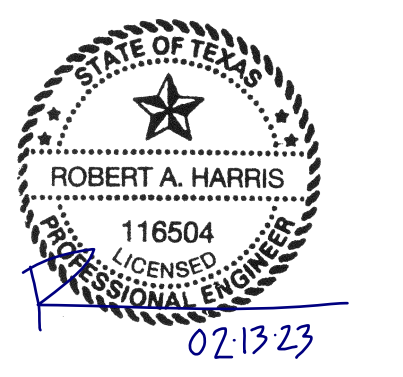
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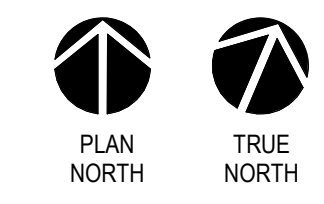
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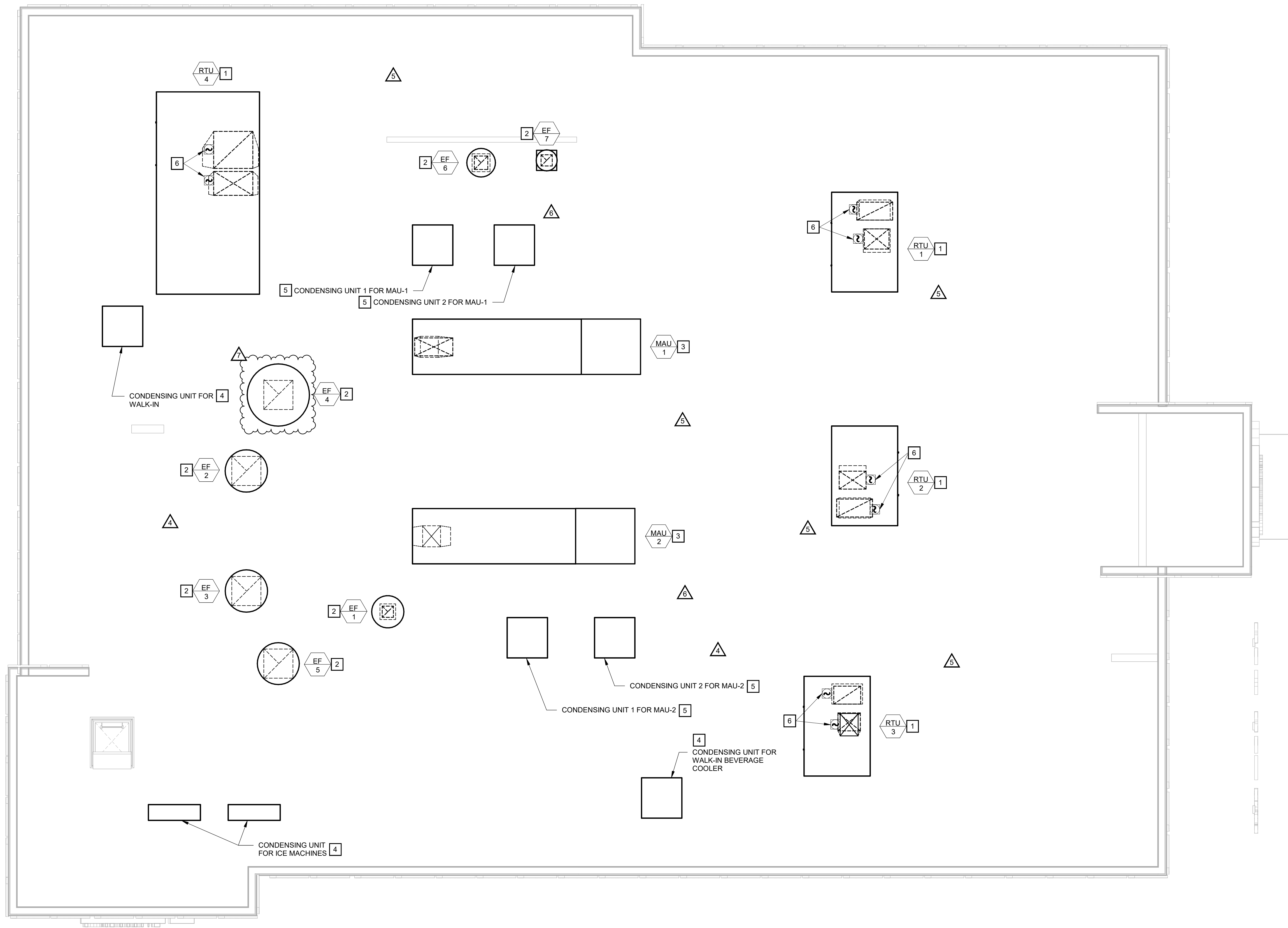
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5	Structural Coord.	11/09/2022
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B	Issue For Bid	06/17/2022
A	Issue For Construction	12/23/2021

Drawn by: VOC
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 Project Number: 04-21706
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01 MECHANICAL ROOF PLAN
1/4" = 1'-0"

- MECHANICAL KEY NOTES**
- PROVIDE ROOFTOP UNIT AND CURB. COORDINATE UNIT WITH STRUCTURE AND SHIM UNIT AND CURB LEVEL FOR PROPER CONDENSATE DRAINAGE. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN ON SHEET M201.
 - INSTALL OWNER FURNISHED ROOF MOUNTED EXHAUST FAN AND CURB.
 - INSTALL OWNER FURNISHED ROOF MOUNTED MAKE-UP AIR UNIT AND CURB. PROVIDE FLEXIBLE CONNECTOR ON SUPPLY DUCT CONNECTION. MAINTAIN ALL MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. COORDINATE INSTALLATION WITH OTHER TRADES TO MAINTAIN MINIMUM 10" CLEARANCE BETWEEN ANY EXHAUST OR VENT TERMINATION AND MAKE-UP AIR UNIT INTAKE.
 - PROVIDE ROOF MOUNTED EQUIPMENT RAILS AND INSTALL OWNER FURNISHED REMOTE CONDENSING UNIT FOR WALK-IN COOLER, WALK-IN FREEZER, OR ICE MACHINE. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, CRANKCASE HEATER, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING, AS APPLICABLE, PER MANUFACTURER'S INSTRUCTIONS. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS. PROVIDE PIPE CURB ASSEMBLY FOR ROOF PENETRATIONS. SEAL PIPING PENETRATIONS THROUGH COOLER/FREEZER ROOF AS REQUIRED.
 - PROVIDE ROOF MOUNTED EQUIPMENT RAILS AND INSTALL OWNER FURNISHED CONDENSING UNIT FOR MAKEUP AIR UNIT. INSTALL REFRIGERANT LINE SET AND ALL FURNISHED ACCESSORIES PER MANUFACTURER. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE FACTORY MOUNTED SMOKE DETECTOR IN ROOFTOP UNIT. REFER TO RTU SCHEDULE FOR ADDITIONAL INFORMATION.

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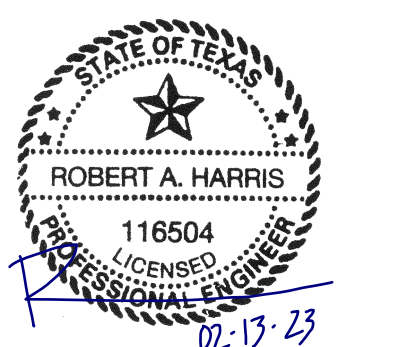
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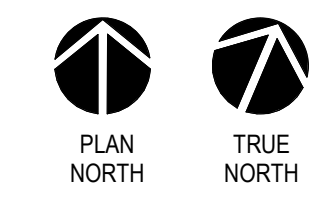
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MECHANICAL ROOF PLAN

M202

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	PER PLAN	24"X24"	LAY-IN	NOTE 1	<30		
B	TITUS	TMS-AA	SQUARE CONE	PER PLAN	24"X24"	LAY-IN	NOTE 1	<30	OBJ.TRM	
C	TITUS	TMS-AA	SQUARE CONE	PER PLAN	12"X12"	LAY-IN	NOTE 1	<30	OBJ.TRM	
D	TITUS	PAR-AA	PERFORATED FACE	PER PLAN	24"X24"	LAY-IN	NOTE 1	<30		
E	TITUS	350FL	LOUVERED	22"X22"	24"X24"	LAY-IN	NOTE 1	<30	STR	2
F	TITUS	350FL	LOUVERED	22"X22"	24"X24"	LAY-IN	NOTE 1	<30	OBJ,STR,TRM	
G	TITUS	350FL	LOUVERED	10"X10"	12"X12"	LAY-IN	NOTE 1	<30	OBJ,STR,TRM	
H	TITUS	350FL	LOUVERED	10"X10"	12"X12"	LAY-IN	NOTE 1	<30	STR	

ACCESSORIES: OBJ-OPPPOSED 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.

ROOFTOP UNIT SCHEDULE - GAS HEAT

MARK (RTU-#)	MANUFACTURER	MODEL	EER	IEER	AIR FLOW (CFM)	OA FLOW (CFM)	AMBIENT OAT (°F)	EXT. S.P. (IN. W.C.)	DX COOLING COIL			HEATING			ELECTRICAL			APPROX WEIGHT (LBS)	NOTES		
									EAT (*FDBWB) (BTU/HR)	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	FUEL TYPE	INPUT (BTU/HR)	OUTPUT (BTU/HR)	VOLTAGE	PHASE	MOTOR HP			MCA (AMPS)	MCCP (AMPS)
1	YORK	ZR102N18	11.2	13.0	3,200	1,100	105	0.8	81.166.9	99,500	78,500	NATURAL GAS	180,000	144,000	208	3	3	61	70	1,500	1-13
2	YORK	ZR102N18	11.2	13.0	3,000	900	105	0.8	80.366.4	97,400	74,600	NATURAL GAS	180,000	144,000	208	3	3	61	70	1,500	1-13
3	YORK	ZR078N12	11.2	13.0	2,100	600	105	0.8	79.866.3	69,900	50,300	NATURAL GAS	120,000	96,000	208	3	2	46	50	1,200	1-13
4	YORK	ZJ210N30	12.1	14.0	5,800	1,600	105	1.0	82.066.4	188,700	148,700	NATURAL GAS	300,000	240,000	208	3	5	94	100	3,200	2-11,13,14

NOTES:
 1. PROVIDE WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
 2. PROVIDE WITH CONDENSER COIL HALL GUARDS.
 3. PROVIDE 18" FACTORY FABRICATED INSULATED ROOF CURB.
 4. PROVIDE LOW LEAK DRY BULB OUTSIDE AIR ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTICS.
 5. PROVIDE FACTORY FURNISHED CONTRACTOR INSTALLED POWER WIRE BUS.
 6. SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. FIELD SET 2 MINIMUM POSITIONS TO MAINTAIN SCHEDULED OUTSIDE AIR FLOW RATE AT SUPPLY FAN MINIMUM AND MAXIMUM SPEEDS. OUTSIDE AIR DAMPER SHALL FULLY CLOSE ON UNIT SHUTDOWN.
 7. PROVIDE FACTORY 120V CONVENIENCE RECEPTACLE TO BE PRE-WIRED WITH FACTORY TRANSFORMER.
 8. PROVIDE FACTORY INSTALLED SUPPLY AND RETURN AIR SMOKE DETECTOR. CONNECT TO THE BUILDING FIRE ALARM SYSTEM. UNIT TO SHUT DOWN UPON DETECTION OF SMOKE. FOR RTUS SERVING THE KITCHEN, UNIT TO SHUTDOWN UPON DETECTION OF SMOKE AND/OR UPON ACTIVATION OF THE ANSUL FIRE SUPPRESSION SYSTEM ASSOCIATED WITH THE KITCHEN HOODS.
 9. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT WITH AUTO CHANGEOVER AND AUTO ADJUSTABLE START PER 2018 IECC.
 10. PROVIDE WITH MULTI-SPEED FAN.
 11. PROVIDE WITH HINGED PANELS.
 12. PROVIDE WITH HOT GAS REHEAT DEHUMIDIFICATION.
 13. PROVIDE WITH FACTORY MOUNTED AND WIRED CONDENSATE OVERFLOW SWITCH.
 14. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.

EXHAUST AND VENTILATION FAN SCHEDULE

MARK (EF-#)	MANUFACTURER	MODEL	TYPE	DRIVE TYPE	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)	MCCP (AMPS)
1	CAPTIVEAIRE	DJ50HFA	ROOF MOUNTED	DIRECT	1,050	1.0	1,542	120	1	1/2	8	15	HOOD #1	120	1.5,7.8,9,11,12,14
2	CAPTIVEAIRE	DJ50HFA	ROOF MOUNTED	DIRECT	1,800	1.2	1,456	120	1	3/4	11	20	HOOD #2	140	1.2,5,7.8,9,11,12
3	CAPTIVEAIRE	DC8BHF	ROOF MOUNTED	DIRECT	1,800	1.2	1,456	120	1	3/4	11	20	HOOD #3	140	1.2,5,7.8,9,11,12
4	CAPTIVEAIRE	CASR20DD	ROOF MOUNTED	DIRECT	3,430	1.5	1,350	208	3	5	18	30	HOOD #5	420	1.2,5,7.8,9,11,14
5	CAPTIVEAIRE	DJ50HFA	ROOF MOUNTED	DIRECT	2,800	1.75	1,327	208	3	5	18	30	HOOD #4	240	1.5,7.8,9,11,12,14
6	CAPTIVEAIRE	DJ50HFA	ROOF MOUNTED	DIRECT	600	0.25	1,095	120	1	1/4	5	15	DISHWASHER	110	3.5,8,10,12,13
7	LOREN COOK	90C170H (VF)	ROOF MOUNTED	DIRECT	400	0.5	1,588	120	1	1/8	2	15	TOILETS	50	4.6,8,10,13

NOTES:
 1. VARIABLE FREQUENCY DRIVE IS PROVIDED WITH HOOD CONTROL PANEL.
 2. FAN SHALL BE CONTROLLED BY SWITCH AT CAPTIVEAIRE HOOD. ELECTRICALLY INTERLOCK RTU-4 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. ELECTRICAL CONTRACTOR SHALL INTERLOCK FAN WITH TIMELOCK TO OPERATE DURING OCCUPIED HOURS.
 5. OWNER FURNISHED EQUIPMENT.
 6. PROVIDE WITH FACTORY BACKDRAFT DAMPER.
 7. PROVIDE 20" TALL FACTORY FABRICATED ROOF CURB.
 8. PROVIDE WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
 9. PROVIDE WITH GREASE DRAIN AND CUP.
 10. PROVIDE WITH FACTORY BIRDSCREEN.
 11. PROVIDE WITH FLAME GARD, EFLUB, GREASE INTERCEPTOR.
 12. ENSURE ALL ELECTRICAL FAN WHIPS ALLOW FAN TO OPEN FULLY.
 13. PROVIDE 22" TALL FACTORY FABRICATED ROOF CURB.
 14. FAN SHALL BE CONTROLLED BY SWITCH AT CAPTIVEAIRE HOOD. ELECTRICALLY INTERLOCK RTU-4 AND MAU-1 TO OPERATE IN OCCUPIED MODE WHILE KITCHEN EXHAUST FAN IS ENERGIZED.

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		
					EAT (*FDBWB) (BTU/HR)	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	FUEL SOURCE	INPUT (BTU/HR)	OUTPUT (BTU/HR)	VOLTAGE	PHASE	MOTOR HP			MCA (AMPS)	MCCP (AMPS)
1	CAPTIVEAIRE	A2-D-250-20D-MPU	3,240	0.5	9774	70,800	62,700	NATURAL GAS	193,418	177,945	208	3	10.7	20	1700	1-6	
2	CAPTIVEAIRE	A2-D-500-20D-MPU	4,688	0.5	9774	110,000	87,600	NATURAL GAS	279,860	257,471	208	3	5	18.2	30	1750	1-5,7

NOTES:
 1. PROVIDE FABRICATED INSULATED ROOF CURB.
 2. FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
 3. FACTORY PROVIDED INTAKE HOOD WITH INLET SCREEN AND 2" WASHABLE FILTERS.
 4. FACTORY PROVIDED MOTORIZED INTAKE DAMPERS.
 5. MOTOR STARTER IS PROVIDED WITH HOOD CONTROL PANEL.
 6. CONDENSING UNITS FOR MAU-1 POWER REQUIREMENTS ARE AS FOLLOWS: CU-1: MCA/MCCP IS 11.2/20. CU-2: MCA/MCCP IS 21.4/30.
 7. CONDENSING UNITS FOR MAU-2 POWER REQUIREMENTS ARE AS FOLLOWS: CU-1:2: MCA/MCCP IS 21.4/30.

UNIT HEATER SCHEDULE - ELECTRIC HEAT

MARK (UH-#)	MANUFACTURER	MODEL	TYPE	AIR FLOW (CFM)	ELECTRIC HEAT			ELECTRICAL			APPROX WEIGHT (LBS)	NOTES
					INPUT (WATTS)	OUTPUT (BTU/HR)	VOLTAGE	PHASE	MCA (AMPS)	MCCP (AMPS)		
1	MARKEL	5100	SUSPENDED	400	2,500	8,500	208	3	9	15	30	12.3
2	BROMIC	6000	RADIANT	0	6,000	20,480	208	1	36	40	50	4.5
3	BROMIC	6000	RADIANT	0	6,000	20,480	208	1	36	40	50	4.5
4	BROMIC	6000	RADIANT	0	6,000	20,480	208	1	36	40	50	4.5
5	BROMIC	6000	RADIANT	0	6,000	20,480	208	1	36	40	50	4.5
6	BROMIC	6000	RADIANT	0	6,000	20,480	208	1	36	40	50	4.5
7	BROMIC	6000	RADIANT	0	6,000	20,480	208	1	36	40	50	4.5
8	BROMIC	6000	RADIANT	0	6,000	20,480	208	1	36	40	50	4.5
9	BROMIC	6000	RADIANT	0	6,000	20,480	208	1	36	40	50	4.5
10	BROMIC	6000	RADIANT	0	6,000	20,480	208	1	36	40	50	4.5

NOTES:
 1. PROVIDE WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
 2. PROVIDE WITH FACTORY TRANSFORMER AND CONTROLLER WITH REMOTE THERMOSTAT.
 3. PROVIDE ALL MOUNTING BRACKETS AND HARDWARE.
 4. PROVIDE WITH DISCONNECT PLUS.
 5. PROVIDE WITH ON/OFF CONTROL PANEL.

AIR BALANCE SCHEDULE

	RTU-1	RTU-2	RTU-3	RTU-4	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7	MAU-1	MAU-2	TOTALS
OUTSIDE AIR FLOW (CFM)	1,100	900	600	1,600	0	0	0	0	0	0	0	3,240	4,688	12,128
RETURN AIR FLOW (CFM)	2,100	2,100	1,500	4,200	0	0	0	0	0	0	0	0	0	9,900
SUPPLY AIR FLOW (CFM)	3,200	3,000	2,100	5,800	0	0	0	0	0	0	0	3,240	4,688	22,028
EXHAUST AIR FLOW (CFM)	0	0	0	0	1,050	1,800	1,800	3,430	2,800	600	400	0	0	11,880
BUILDING PRESSURE (CFM)	1,100	900	600	1,600	-1,050	-1,800	-1,800	-3,430	-2,800	-600	-400	3,240	4,688	248
REMARKS														
RESULTING BUILDING PRESSURIZATION (CFM)	248													

2018 INTERNATIONAL MECHANICAL CODE TABLE 403.3.1.1 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 DISTRIBUTION EFFECTIVENESS - Ez	BREATHING ZONE AIRFLOW - (Vbz)	ZONE OUTDOOR AIRFLOW - (Voz=Vbz/Ez)	ZONE PRIMARY AIRFLOW (Vpz)	PRIMARY OUTDOOR AIR FRACTION (Zp)	OCCUPANT DIVERSITY RATIO (D)	UNCORRECTED OUTDOOR INTAKE (Vou)	SYSTEM VENTILATION EFFICIENCY	CORRECTED OUTDOOR AIRFLOW (vat)	PROVIDED OUTDOOR AIRFLOW
RTU-1																		
Men	0	0	0	RESTROOM	0	0	0	128	0.8	0	0	200	0.00	0	0	0	0	0
Women	0	0	0	RESTROOM	0	0	0	154	0.8	0	0	200	0.00	0	0	0	0	0
Dining	7.5	0.18	70	DINING	70	525	179	992	0.8	704	879	2700	0.33	704	858	858	858	858
Corridor	0	0.06	0	CORRIDOR	0	0	5	85	0.8	5	6	100	0.07	5	6	100	0.07	5
	SYSTEM POPULATION INCLUDING DIVERSITY (P...)																	
RTU-2																		
Bar	7.5	0.18	100	BAR	33	248	59	328	0.8	307	383	1400	0.28	307	352	352	352	352
Dining	7.5	0.18	70	DINING	28	210	70	391	0.8	280	350	1600	0.22	280	322	322	322	322
	SYSTEM POPULATION INCLUDING DIVERSITY (P...)																	
RTU-3																		
Dining	7.5	0.18	70	DINING	36	270	91	508	0.8	361	452	1500	0.31	361	430	430	430	430
Entry	10	0.06	5	LOBBY/ENTRY	2	20	15	243	0.8	35	43	400	0.11	35	41	41	41	41
Vestibule	0	0.06	0	CORRIDOR	0	0	6	93	0.8	6	7	200	0.04	6	7	200	0.04	6
	SYSTEM POPULATION INCLUDING DIVERSITY (P...)																	
RTU-4																		
Office	5	0.06	5	OFFICE	1	5	4	64	0.8	9	11	150	0.08	9	9	150	0.08	9
Kitchen	20	0.12	7.5	KITCHEN	18	360	279	2328	0.8	639	799	5650	0.15	639	639	639	639	639
	SYSTEM POPULATION INCLUDING DIVERSITY (P...)																	

MECHANICAL GENERAL NOTES

- CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW CONSTRUCTION DOCUMENTS. INFORMATION REGARDING CONFLICTS 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 RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LAYOUT AND EQUIPMENT. LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURERS' STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY GOVERNING CITY. PURCHASE PERMITS ASSOCIATED WITH WORK. OBTAIN INSPECTIONS REQUIRED BY CODE.
- INSTALL EQUIPMENT PER MANUFACTURERS' INSTRUCTIONS AND MAINTAIN MANUFACTURERS' RECOMMENDED CLEARANCE.
- INSTALL EXHAUST FAN A MINIMUM OF 10 FT FROM INTAKE AIR OPENINGS.

HVAC SEQUENCE OF OPERATIONS

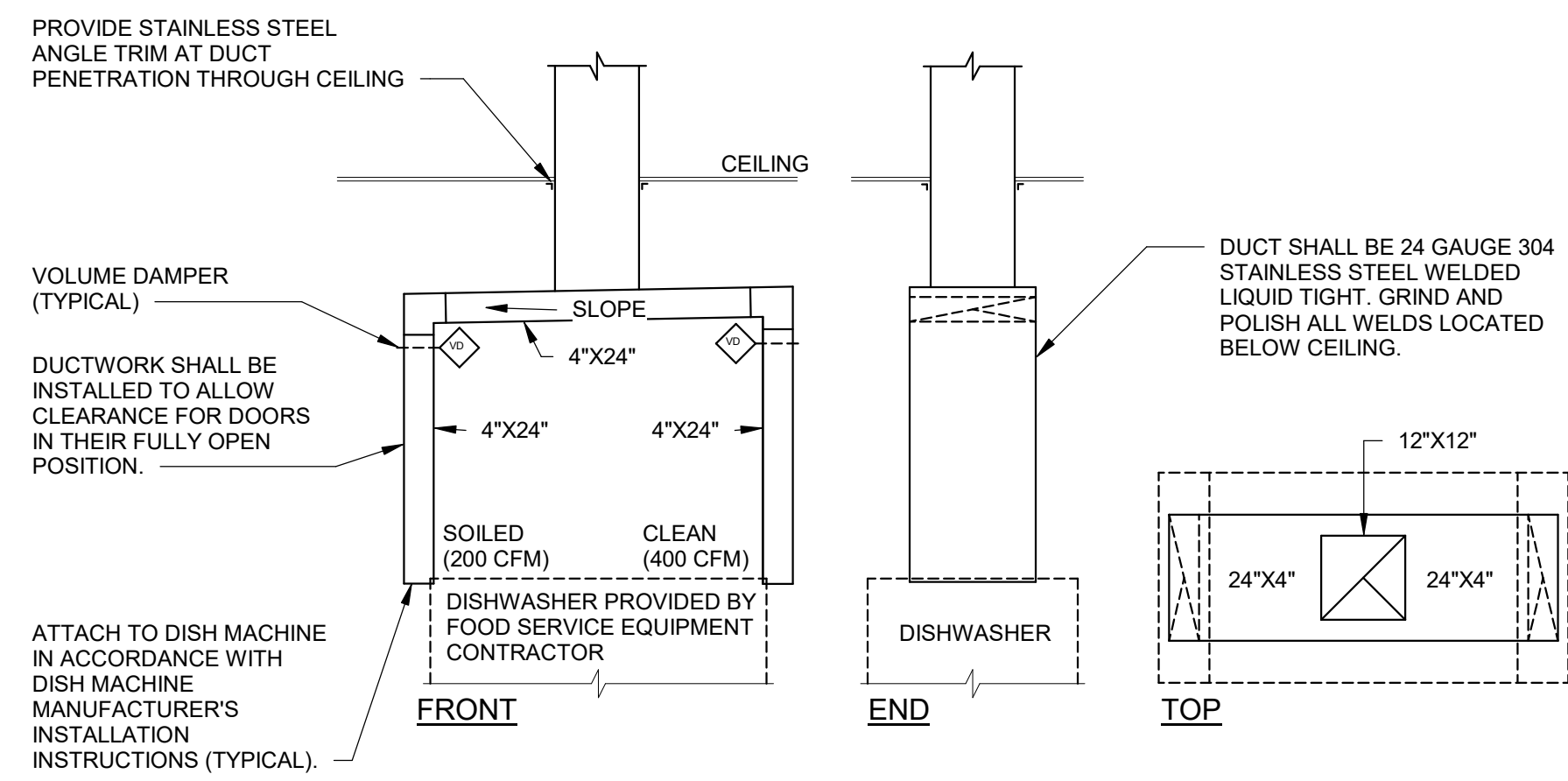
PROVIDE NECESSARY SENSORS, DAMPER ACTUATORS, CONTROL TRANSFORMERS AND APPROVED OVERLOAD PROTECTION, WIRING IN CONDUIT, AND ALL MISCELLANEOUS ITEMS TO ACCOMPLISH FOLLOWING SEQUENCE OF OPERATION:

ROOFTOP UNIT:
 UNIT CONTROLLER SHALL BE SET TO DETERMINE OCCUPIED AND UNOCCUPIED HOURS OF OPERATION. HOURS SHALL BE COORDINATED WITH OWNER.

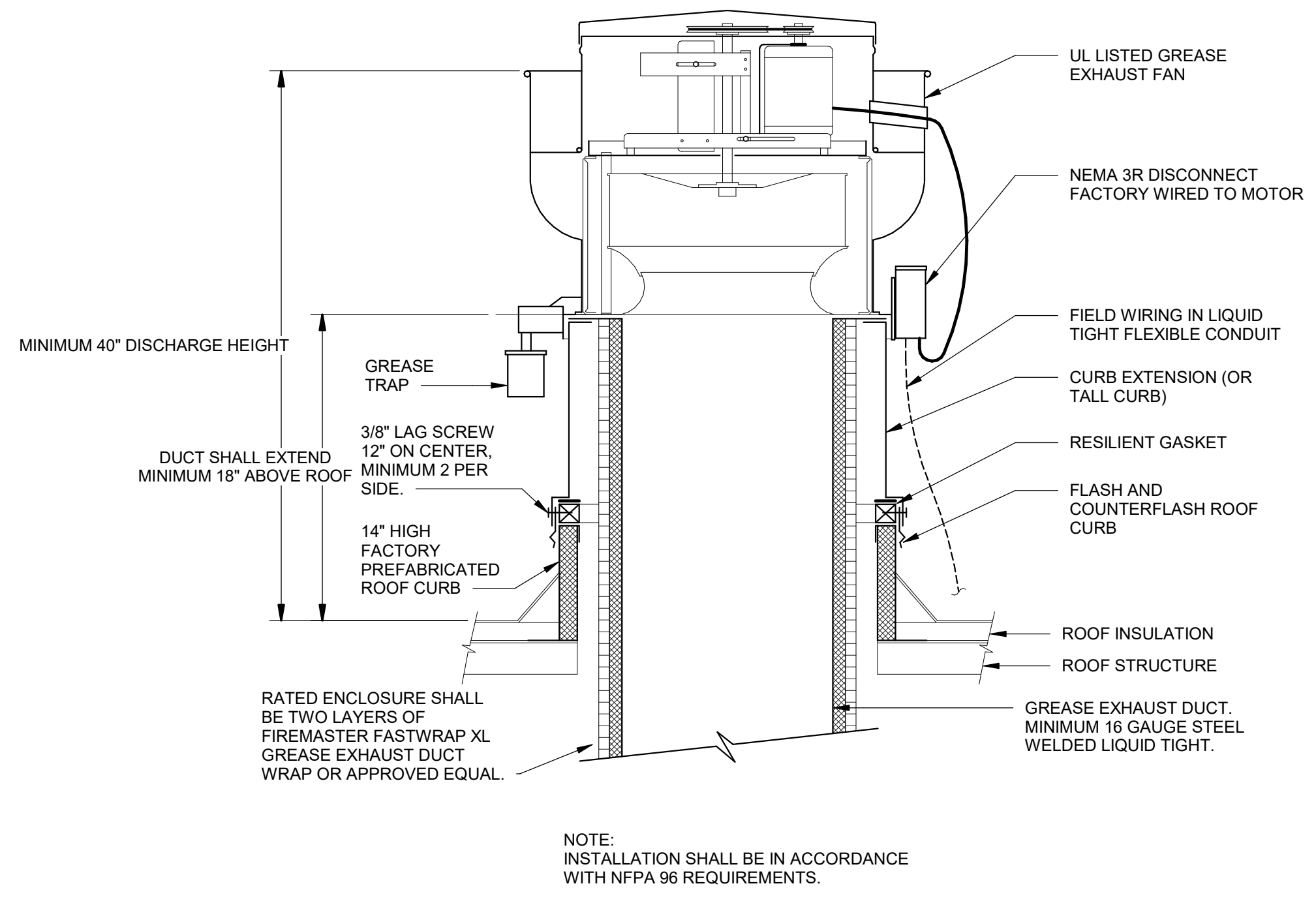
OCCUPIED MODE:
 SUPPLY FAN SPEED SHALL VARY AIRFLOW AS FUNCTION OF LOAD (WHERE APPLICABLE). DURING NON-COOLING, FIRST STAGE COOLING, AND NON-HEATING TIMES, SUPPLY FAN SHALL RUN AT MINIMUM SPEED. DURING SECOND STAGE COOLING AND HEATING TIMES, SUPPLY FAN SHALL RUN AT FULL SPEED. OUTSIDE AIR DAMPER SHALL MODULATE POSITION TO MAINTAIN REQUIRED QUANTITY OF OUTSIDE AIR AS SUPPLY FAN VARIES SPEED.

COOLING:
 WHEN SPACE TEMPERATURE RISES ABOVE OCCUPIED COOLING SET POINT, PACKAGED DIRECT EXPANSION COOLING SHALL BE ENERGIZED AND STAGED AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.

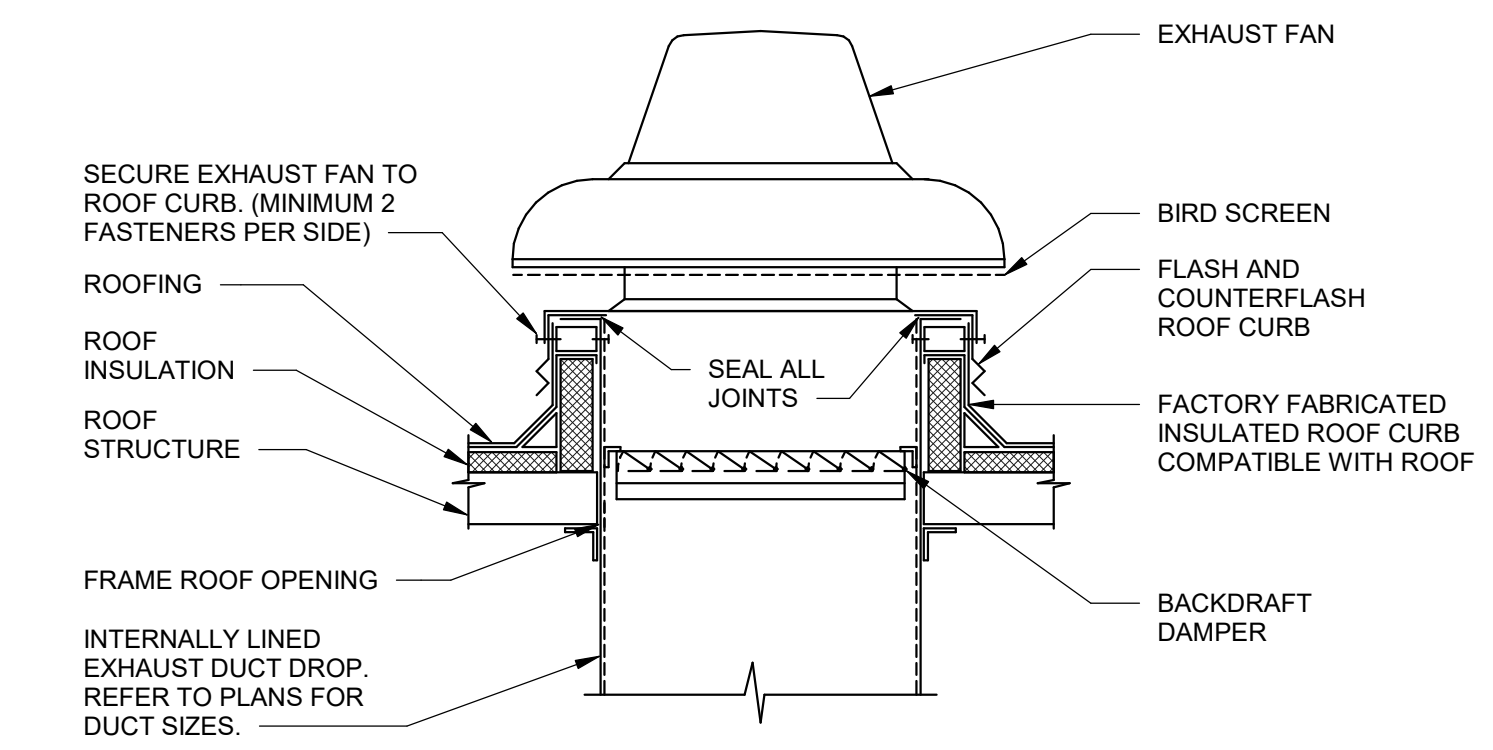
ECONOMIZER:
 WHEN OUTSIDE AIR TEMPERATURE IS BELOW 65°F (AD



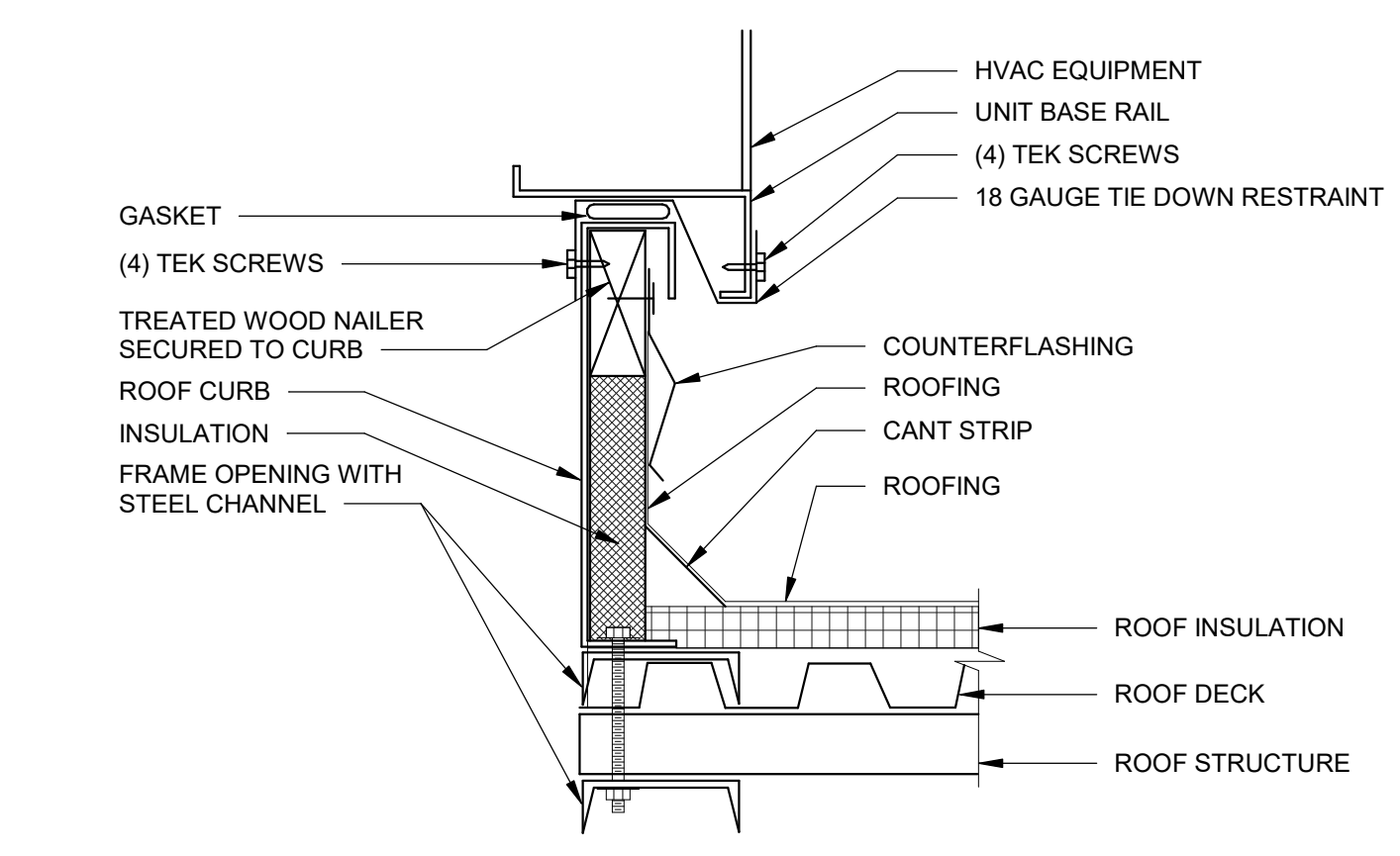
08 DISHWASHER EXHAUST FAN DETAIL
NOT TO SCALE



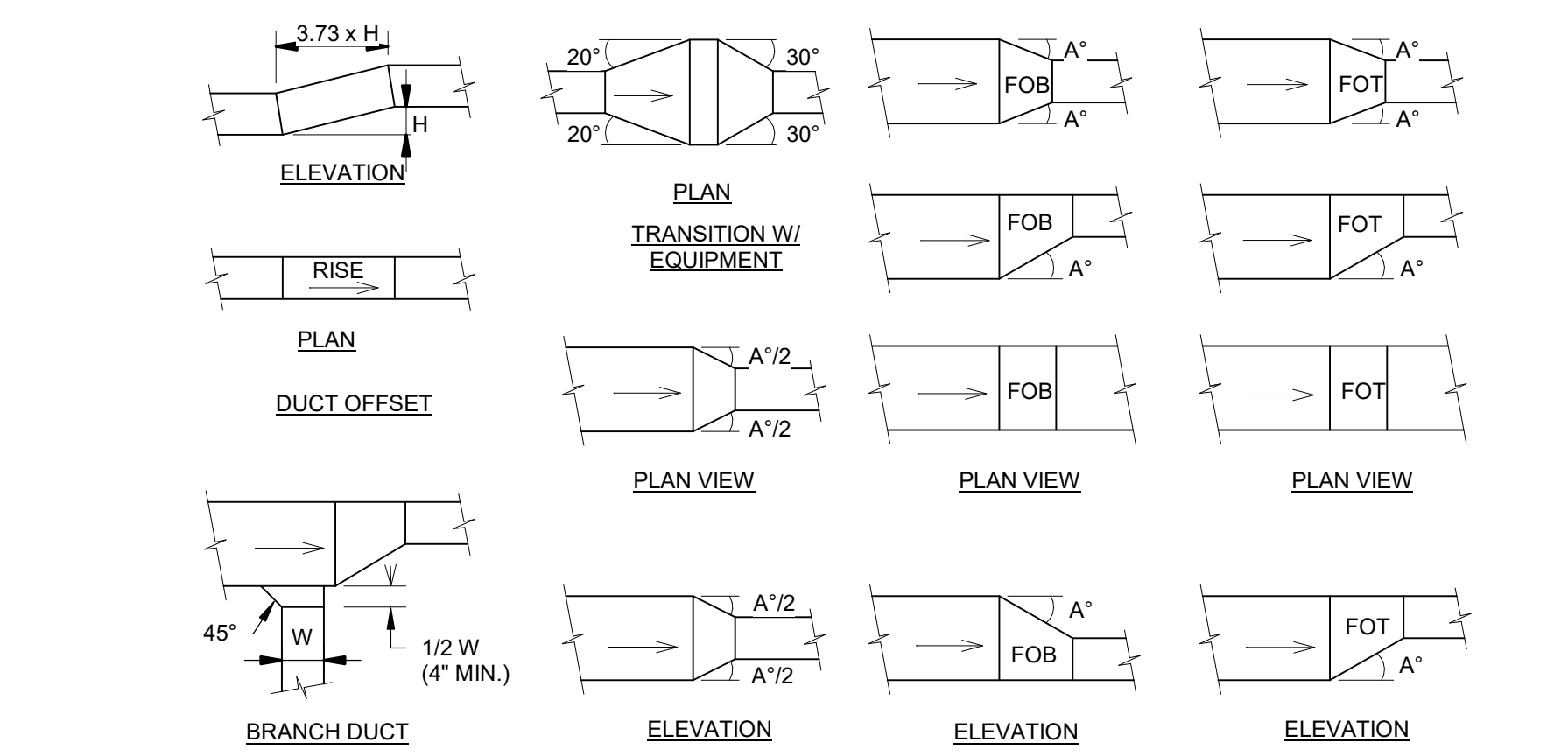
06 ROOF MOUNTED GREASE EXHAUST FAN DETAIL
6\"/>



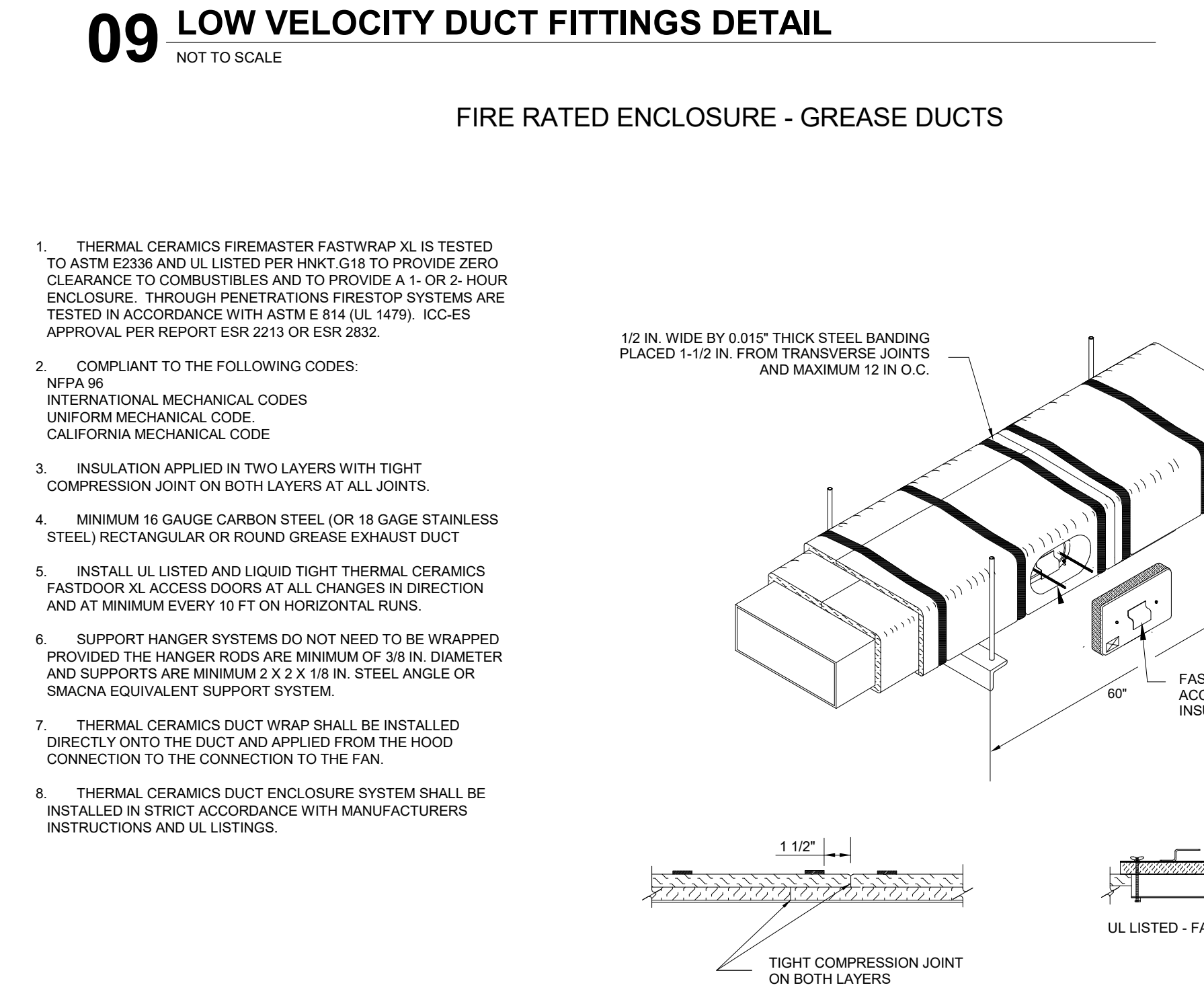
05 EXHAUST FAN DETAIL
NOT TO SCALE



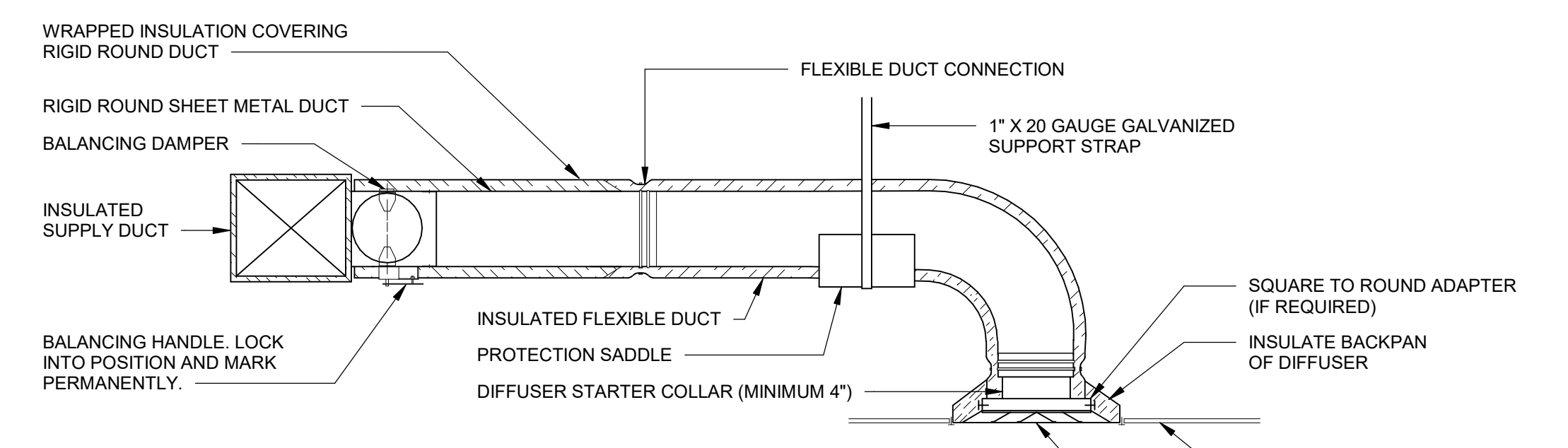
01 ROOFTOP UNIT CURB DETAIL
NOT TO SCALE



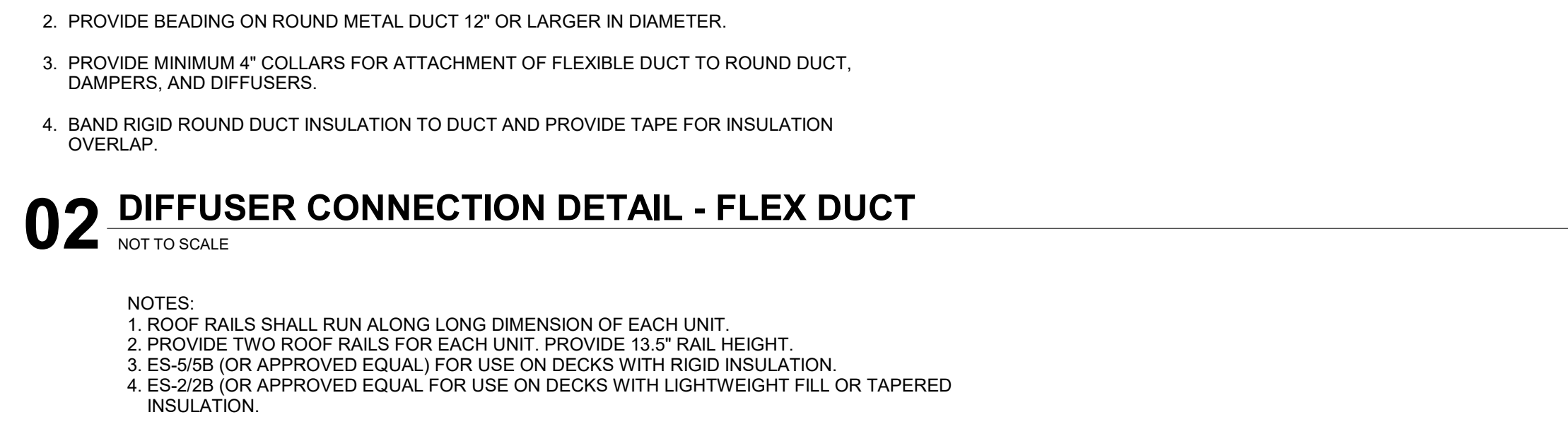
09 LOW VELOCITY DUCT FITTINGS DETAIL
NOT TO SCALE



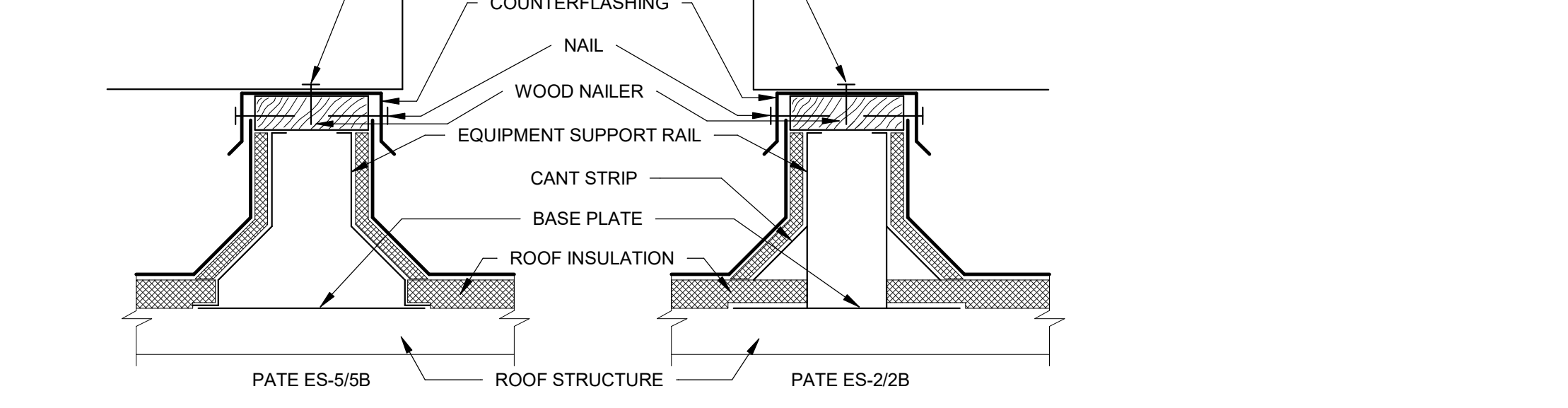
07 KITCHEN HOOD SCHEMATIC
NOT TO SCALE



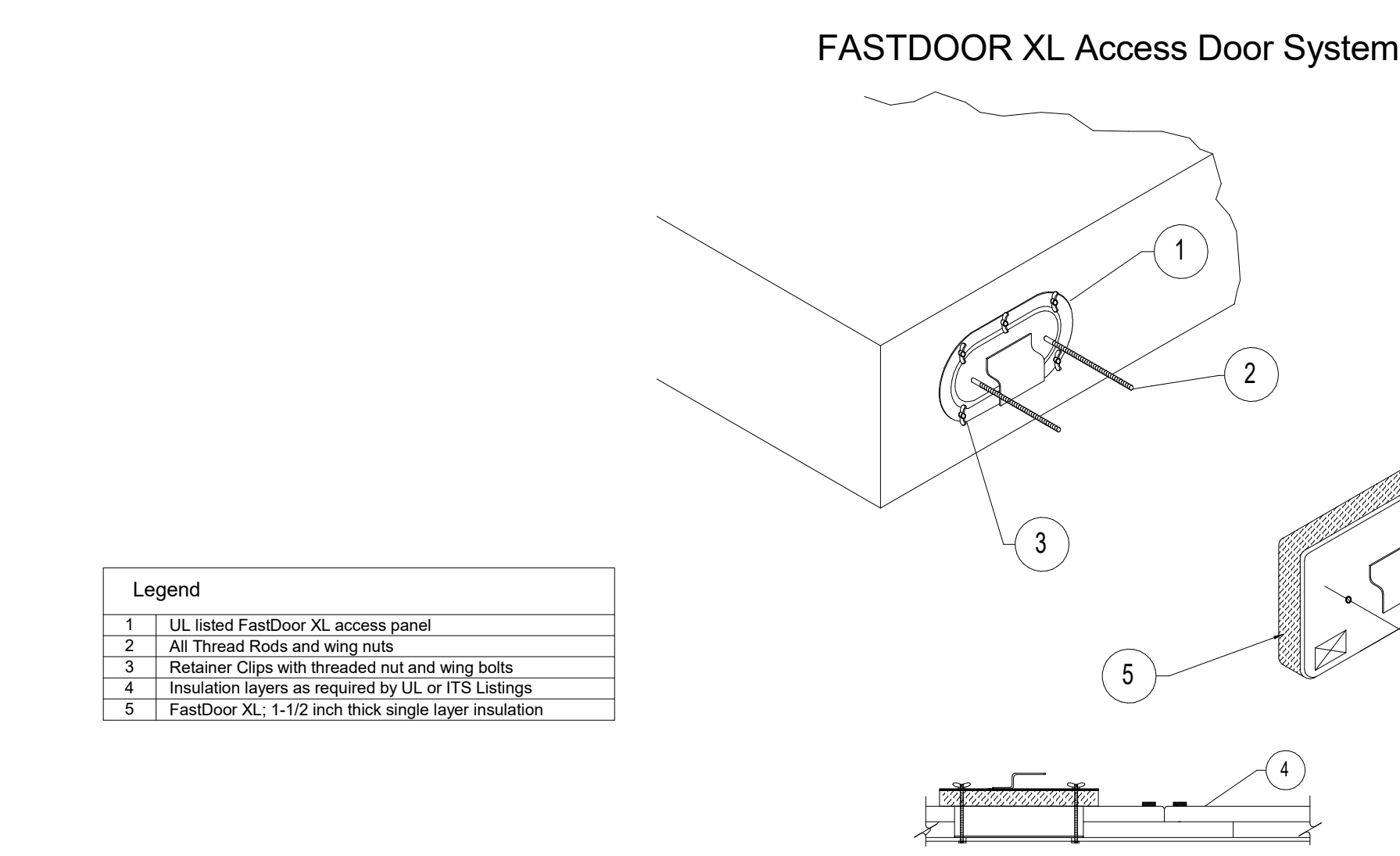
02 DIFFUSER CONNECTION DETAIL - FLEX DUCT
NOT TO SCALE



03 EQUIPMENT SUPPORT RAIL DETAIL
NOT TO SCALE



04 PIPE ROOF PENETRATION DETAIL
NOT TO SCALE



10 COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION ASSEMBLY DETAIL
NOT TO SCALE

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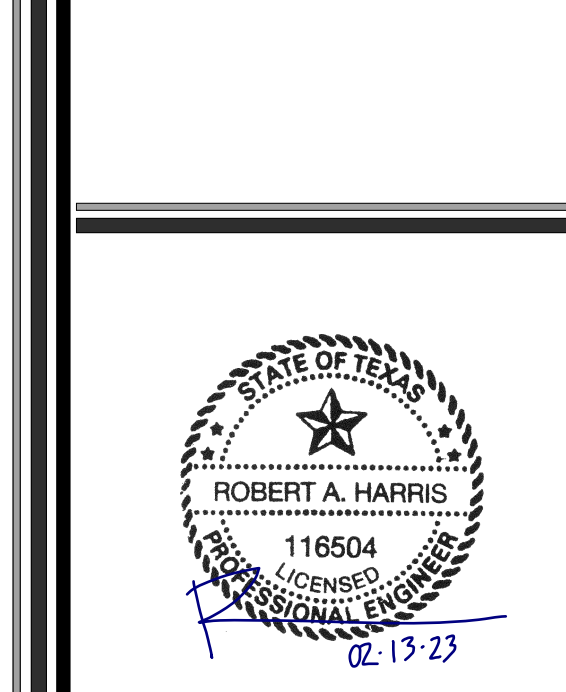
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THIS SHEET IS PART OF THE CONSTRUCTION DOCUMENTS. DRAWINGS, SPECIFICATIONS AND OTHER SHEETS APPLY AND NEED TO BE REVIEWED IN TOTAL. ITEMS SHOWN ARE FOR DIAGRAMMATIC REPRESENTATION AND MAY NOT BE RELIED ON OR USED AS SHOP DRAWINGS. PROVIDE ALL MODIFICATIONS REQUIRED TO CONFORM TO SITE CONDITIONS, EQUIPMENT AND MATERIAL USED. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS PER THEIR RESPECTIVE DOCUMENTS. AS THESE ELEMENTS ARE SHOWN ONLY FOR REFERENCE, AND REQUIRE VERIFICATION PRIOR TO FABRICATION OR CONSTRUCTION, ENGINEER HAS NO LIABILITY FOR THE ACCURACY OF THESE ASSOCIATED ELEMENTS, OR FOR ANY WORK THE ENGINEER HAS NOT SIGNED AND SEALED.

No.	Description	Date
B	Issue For Bid	06/17/2022
A	Issue For Construction	12/23/2021

Drawn by: VOC
Checked by: CLK
Project Number: 04-21706
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