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HVAC LEGEND

AHU-1	EQUIPMENT TAG	SR-1 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM
1 M3	DETAIL TAG (*1" INDICATES IDENTIFICATION NUMBER; *M3" INDICATES THE SHEET NUMBER DRAWN ON)	(2)SR-1 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES
	SHEET NOTE	TYP	TYPICAL
	SUPPLY DUCT SECTION POSITIVE PRESSURE	TEMP	TEMPERATURE
	RETURN OR EXHAUST DUCT NEGATIVE PRESSURE	SA	SUPPLY AIR
AxB	RECTANGULAR DUCT SIZE (*A" INDICATES SIDE SHOWN; *B" INDICATES SIDE NOT SHOWN)	RA	RETURN AIR
	INDICATES RISE IN ELEVATION OF DUCT.	EA	EXHAUST AIR
	EXTERNALLY INSULATED DUCTWORK	MA	MIXED AIR
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK	OA	OUTDOOR AIR
	DUCT ELBOW WITH TURNING VANES	TA	TRANSFER AIR
	RADIUSED DUCT ELBOW	EF	EXHAUST FAN
	FLEXIBLE DUCT CONNECTION	CD	CEILING DIFFUSER
	MANUAL VOLUME BALANCING DAMPER	RG	RETURN GRILLE
	MOTORIZED DAMPER	EG	EXHAUST GRILLE
	FIRE DAMPER WITH ACCESS DOORS	ER	EXHAUST REGISTER
	SMOKE DAMPER WITH ACCESS DOORS	CREF	CEILING ROOF EXHAUST FAN
	BACKDRAFT DAMPER	AHU	INDOOR AIR HANDLING UNIT
	TEE WITH TURNING VANES	HP	HEAT PUMP
	TRANSITION	OAU	OUTSIDE AIR UNIT
	FLEX DUCT TAKE OFF WITH MVD SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE	①	THERMOSTAT, *1" INDICATES UNIT CONTROLLED
	BRANCH DUCT TAKEOFF WITH MVD	⑤	DUCT MOUNTED SMOKE DETECTOR
	INTERNALLY INSULATED DUCTWORK	UC	UNDERCUT DOOR 3/4"
		DG	DOOR GRILLE, REFER TO DOOR SCHEDULE
		AFF	ABOVE FINISHED FLOOR
			FIRE DAMPER AT CEILING DIFFUSER OR GRILLE
		XFR	TRANSFER AIR
		ESP	EXTERNAL STATIC PRESSURE
		DDC	DIRECT DIGITAL CONTROLS
		TAB	TESTING, ADJUSTING, AND BALANCING
		NOM	NOMINAL
		VFD	VARIABLE FREQUENCY DRIVE
		WM	DUCTLESS - WALL MOUNTED UNIT
		MHP	MINI HEAT PUMP
		DW	DRY WELL

FAN SCHEDULE

UNIT	TYPE	CFM	MAX. FAN RPM	ESP (IN. H2O)	MAX. MOTOR POWER	SONES/db (MAX)	BASIS OF DESIGN	MODEL	CONTROL	ELECIRICAL VOLTS/PHASE	NOTES
EF-1	CEILING	70	772	0.25	7 W	1.2	COOK	CCVF-100	INTERLOCK W/LIGHTS	115/1	1,2,3,4,5,6
EF-2	CEILING	70	772	0.25	7 W	1.2	COOK	CCVF-100	INTERLOCK W/LIGHTS	115/1	1,2,3,4,5,6

- PROVIDE DISCONNECT
- PROVIDE SOLID STATE SPEED CONTROLLER
- PROVIDE BACKDRAFT DAMPER
- PROVIDE THERMAL OVERLOAD
- PROVIDE DIRECT DRIVE FAN WITH EC MOTOR.
- PROVIDE RUBBER IN SHEAR VIBRATION ISOLATION.

GENERAL NOTES

- ALL DUCT DIMENSIONS ARE NET INSIDE.
- VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
- FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
- PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
- WASTE VENT STACKS, EXHAUST FANS, ETC. SHALL BE A MINIMUM OF 10 FT. FROM OUTSIDE AIR INTAKES.
- ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
- ALL AHU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
- PROVIDE ACCESS PANELS IN HARD CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING.
- ALL BIRD AND INSECT SCREENS SHALL BE ANODIZED ALUMINUM.
- BECAUSE OF THE SMALL SCALE OF CONTRACT DOCUMENTS IT IS NOT POSSIBLE TO SHOW ALL OFFSETS, TRANSITIONS, ETC. THE CONTRACT DOCUMENTS ARE ESSENTIALLY DIAGRAMATIC. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS COORDINATED WITH THE STRUCTURE AND ARCHITECTURAL WORK FOR REVIEW PRIOR TO COMMENCING WORK
- ALL WORK SHALL COMPLY WITH 2023 FLORIDA BUILDING CODE.

SEQUENCE OF OPERATION

GENERAL: PROVIDE A PROGRAMMABLE THERMOSTAT WITH HUMIDITY CONTROL, OCCUPIED/UNOCCUPIED SETPOINTS, AND SCHEDULE FUNCTIONS.

TYPICAL AHU/HP:

OCCUPIED MODE: THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE HP SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE. THE ELECTRIC HEAT SHALL BE AVAILABLE AS EMERGENCY HEAT AND AN ADDITIONAL STAGE OF HEAT WHEN THE OUTDOOR AIR TEMPERATURE FALLS BELOW 35°F. THE SETPOINT FOR COOLING SHALL BE 75° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 70° F ADJUSTABLE.

UNOCCUPIED MODE: THE INDOOR FAN AND HP OR ELECTRIC HEAT SHALL CYCLE TO MAINTAIN SETPOINT TEMPERATURE. THE SETPOINT FOR COOLING SHALL BE 80° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 60°F ADJUSTABLE.

OVERRIDE MODE: THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE.

LOUVER SCHEDULE

MARK	AIRFLOW CFM	LOUVER SIZE (WxH) INCHES	FREE AREA FT (MIN)
LVR-1	165	18x12	0.44

- PROVIDE GREENHECK MODEL 'EHV-901D' (OR EQUAL) EXTRUDED ALUMINUM, WIND-DRIVEN RAIN RESISTANT, STATIONARY LOUVER WITH BIRDSCREEN AND FLORIDA PRODUCT APPROVAL.
- FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- COORDINATE ELEVATIONS WITH ARCHITECT.
- MAXIMUM PRESSURE DROP SHALL BE 0.10".

DUCTWORK AND INSULATION GENERAL NOTES

- ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M OR ENGINEER APPROVED EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
- SEAL ALL DUCT PENETRATIONS OF WALLS AND FLOORS AIRTIGHT, REGARDLESS OF WHETHER WALLS AND FLOORS ARE FIRE RATED OR NOT.
- ALL SUPPLY AIR DUCTWORK (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, INSULATION NOT REQUIRED.
- AVOID ROUTING DUCTWORK AND TU'S WITHIN 6" OF TOP OF LIGHT FIXTURES WHEREVER POSSIBLE. MAINTAIN CLEARANCE BETWEEN TU'S AND DUCT INSULATION TO TOP OF LIGHTS. PROVIDE CLEARANCE ALL AROUND AIR TERMINAL UNITS AS REQUIRED FOR ROUTINE MAINTENANCE.
- PROVIDE MVD'S AT ALL TAKEOFFS FROM MAIN DUCTS.
- CONTRACTOR SHALL SUBMIT COORDINATED DUCTWORK SHOP DRAWINGS INDICATING COORDINATION WITH ELECTRICAL AND PLUMBING PRIOR TO BEGINNING WORK. SHOP DRAWINGS SHALL INCLUDE LOCATIONS OF THERMOSTATS, ACCESS PANELS, AIR DEVICES, DUCTWORK, ETC.
- PROVIDE DUCT ACCESS PANELS AT ALL SMOKE DETECTORS AND MOTORIZED DAMPERS.

AIR DEVICE SCHEDULE

MARK	MAX AIRFLOW CFM	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 CFM	80	6x6	6Ø	TDC
SWG-1 CFM	400	12x8	12x8	272RS
SWG-2 CFM	300	12x6	12x6	272RS
SWG-3 CFM	150	6x6	6x6	272RS
RG, EG, SG, TG, RR, ER				
xx-1 CFM	1700	22x22	22x22	350FL
xx-2 CFM	550	18x12	18x12	350FL
xx-3 CFM	925	24x12	24x12	350FL

- NOTES:
- MAX NC=20
 - PROVIDE 2x2 LAY IN PANEL FOR AIR DEVICES IN LAY IN CEILINGS.
 - PROVIDE BEVELED MOUNTING FRAME FOR CEILING DIFFUSERS IN HARD CEILINGS.
 - PROVIDE FLAT MOUNTING FRAME FOR GRILLES LOCATED IN HARD CEILINGS.
 - PAINT ALL DUCT VISIBLE THROUGH GRILLES FLAT BLACK.

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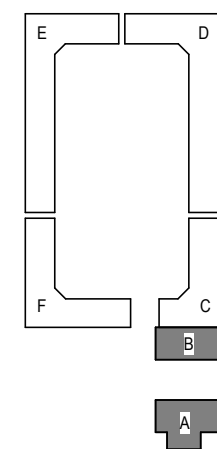
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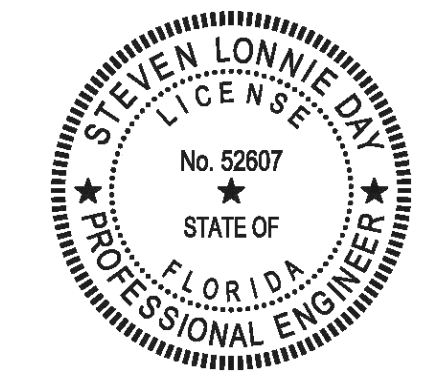
CLIENT NAME

**GARAGES
LUXURY AT
MIRAMAR -
PHASE 1**

U.S. Highway 98
Miramar Beach, FL



REVISIONS
NO. DESCRIPTION DATE



Project Number **25038**
Dated 10.05.2026

HVAC LEGEND,
SCHEDULES AND
NOTES

M-001

Steven L Day

Digitally signed by Steven L. Day
DN: cn=Steven L. Day,
o=Qualifiers-A01410000001990B80CEA40001195F,
c=US
Reason: I am the author of this document
Date: 2026.10.06 11:15:52 -0500

Steven L. Day, State of Florida, Professional Engineer, License No. 52607

This item has been digitally signed and sealed by Steven L. Day on the date indicated here.

10/06/2026

Signature must be verified on any electronic copies.

**WATFORD
ENGINEERING**

Florida CA Number: 27825
Steven L. Day P.E.
Florida License Number: 52607
850.526.3447
Project Number: 2025-081
Checked By: SLD
Drawn By: JFG

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MINI SPLIT SYSTEM CONDENSING UNIT SCHEDULE												
UNIT MHP	BASIS OF DESIGN	MODEL	NOMINAL COOL CAPACITY (BTUH)	DESIGN COOLING OUTDOOR TEMP DB	SEER2	NOMINAL HEAT CAPACITY (BTUH)	DESIGN HEATING OUTDOOR TEMP DB	HSPF2	VOLTS/PHASE	MCA (AMPS)	MOCP (AMPS)	NOTES
A	MITSUBISHI	PUZ-A12NKA7	12000	95/77	21.3	9300	25	9.3	208/1	11	28	1,2,3
B	MITSUBISHI	PUZ-A18NKA7	18000	95/77	20.2	13600	25	9.2	208/1	11	28	1,2,3

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).

2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).
3. EFFICIENCY VALUES FOR SEER2, AND HSPF2 ARE BASED ON AHRI 210/240 TEST METHOD FOR MIXTURE OF DUCTED AND NON-DUCTED INDOOR UNITS.

MINI SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE															
WALL-MOUNT (WM) UNIT	BASIS OF DESIGN	MODEL	TYPE	NOMINAL COOL CAPACITY (BTUH)	DESIGN COOLING EAT °F DB/WB	DESIGN COOLING CAPACITY (BTUH)		NOMINAL HEAT CAPACITY (BTUH)	DESIGN HEATING TOTAL CAPACITY (BTUH)	DESIGN HEATING EAT °F DB	AIRFLOW (CFM)	VOLTS/PHASE	FAN (WATTS)	FAN FLA (AMPS)	NOTES
						COOLING TOTAL	COOLING SENSIBLE								
A	MITSUBISHI	PKA-A12LA1	WALL MOUNTED	12000	72.2/44.5	19300	19300	14000	21500	69.5	375	FED FROM MHP	30	0.19	1,2,3,4,5,6,7,8,9
B	MITSUBISHI	PKA-A18LA1	WALL MOUNTED	18000	72.2/44.5	33900	33000	19000	37400	69.5	375	FED FROM MHP	30	0.19	1,2,3,4,5,6,7,8,9

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).

2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).

3. DESIGN COOLING CONDITIONS ARE AT 95°F AMBIENT; DESIGN HEATING CONDITIONS ARE AT 25°F AMBIENT.
4. DESIGN CAPACITY IS NET CAPACITY FOR INSTALLATION ACCOUNTING FOR 65 FT PIPE RUN LENGTHS, ETC.

5. CALCULATE REFRIGERANT LINE SIZES BASED UPON FINAL FIELD PIPING LAYOUT.

6. EXPOSED (INDOOR OR OUTDOOR) REF PIPING SHALL BE HARD DRAWN COPPER.
7. INTERLOCK UNITS WITH GARAGE DOORS. ON DOOR REMAINING OPEN FOR MORE THAN 10 MINUTES UNIT TO SHUT OFF.

8. TWO UNITS PER ZONE.

9. PROVIDE BLUE DIAMOND MAXIBLUE CONDENSATE PUMP OR APPROVED EQUAL. PUMP MUST HAVE A MINIMUM LIFT OF 10 FEET.

SPLIT SYSTEM HEAT PUMP SCHEDULE																							
UNIT AHU/HP	BASIS OF DESIGN	MODEL HP/AHU	SA (CFM)	OA (CFM)	ESP (IN.H2O)	FAN (HP)	COOLING					HEATING				SUPPL. HEAT (KW)	AHU ELECTRICAL			HP ELECTRICAL			NOTES
							MAT" (DB/WB)	OAT" (DB/WB)	TOTAL (BTUH)	SENSIBLE (BTUH)	SEER2	MAT" (DB)	OAT" (DB)	TOTAL (BTUH)	HSPF2		VOLTS/PHASE	MCA	MOP	VOLTS/PHASE	MCA	MOP	
1	TRANE	6TWR4048A1.5TEM6D06AV41	1575	165	0.35	3/4	74.4/61.6	95/77	44300	36300	17.1	63.9	25	38600	9.0	10.8	208/1	73	80	208/1	39	60	1,2,3,4,5,6,7,8,9

1. PROVIDE 2" 30% FILTERS AND FILTER HOUSING SHOWN IN DETAILS.

2. EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240.

3. ESP DOES NOT INCLUDE FILTER, CASING, ETC.
4. PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION.
5. PROVIDE THERMAL EXPANSION VALVES.

6. DIRECT DRIVE AHU FAN.

7. COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT.
8. PROVIDE UNIT MOUNTED CIRCUIT BREAKER FOR INDOOR AIR HANDLERS.

9. PROVIDE EPA APPROVED REFRIGERANT AND REFRIGERANT MONITORING SYSTEM.

VENTILATION SCHEDULE			
SPACE TYPE	VENTILATION CFM/S.F.	VENTILATION CFM/PERSON	EX-HAUST CFM
CORRIDOR	0	5	0
OFFICE	0.06	5	0
RESTROOM	0	5	70/FIXTURE
STORAGE	0	5	0
LOBBY	0.06	5	0
CONFERENCE ROOM	0.06	5	0

NOTE:

VENTILATION RATES IN COMPLIANCE WITH ASHRAE STANDARD 62.1-2019.

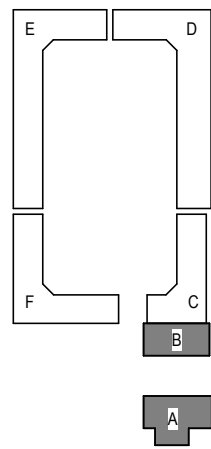
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CLIENT NAME

GARAGES
LUXURY AT
MIRAMAR -
PHASE 1

U.S. Highway 98
Miramar Beach, FL



REVISIONS		DATE
NO.	DESCRIPTION	

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Dated	10.05.2026

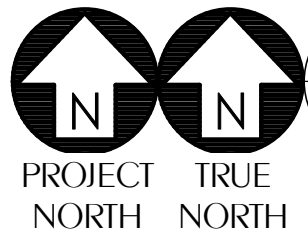
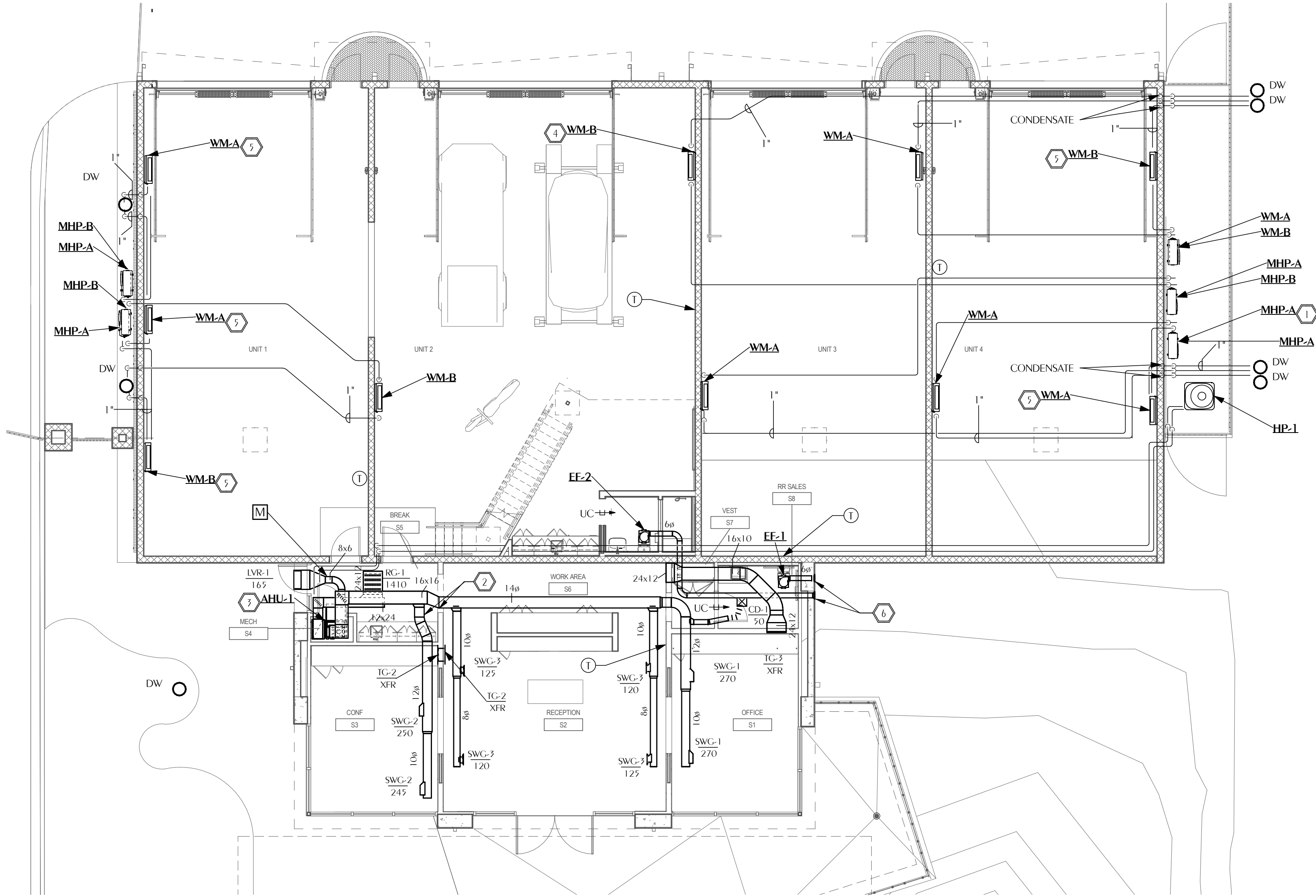


**WATFORD
ENGINEERING**

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Project Number: 2025-081
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1 HVAC LEVEL 1 SALES/BLDG A NEW WORK FLOOR PLAN
M-100 SCALE: 1/8" = 1'-0"

SHEET NOTES

- 1 UNITS MOUNTED TO WALL WITH MANUFACTURER'S WALL MOUNT KIT. MOUNT UNITS AT GROUND HEIGHT AND 5 FEET ABOVE GRADE. TYPICAL.
- 2 TRANSITION TO ROUND SPIRAL DUCTWORK.
- 3 ROUTE CONDENSATE TO NEAREST DRY WELL.
- 4 ROUTE CONDENSATE AND REFRIGERANT PIPING UP TO CEILING. TYPICAL.
- 5 DO NOT ROUTE PIPING UP TO CEILING. TAKE DIRECTLY OUT OF BUILDING AND DOWN TO DRY WELL AND HEAT PUMP.
- 6 PROVIDE SEIHO SFX 6 VENT CAP WITH MESH STAINLESS STEEL INSECT SCREEN OR APPROVED EQUIVALENT. FINISH BY ARCHITECT.

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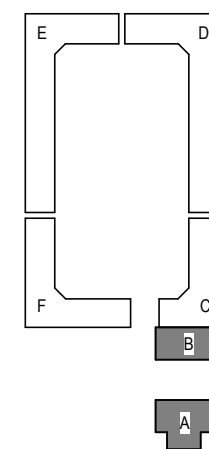
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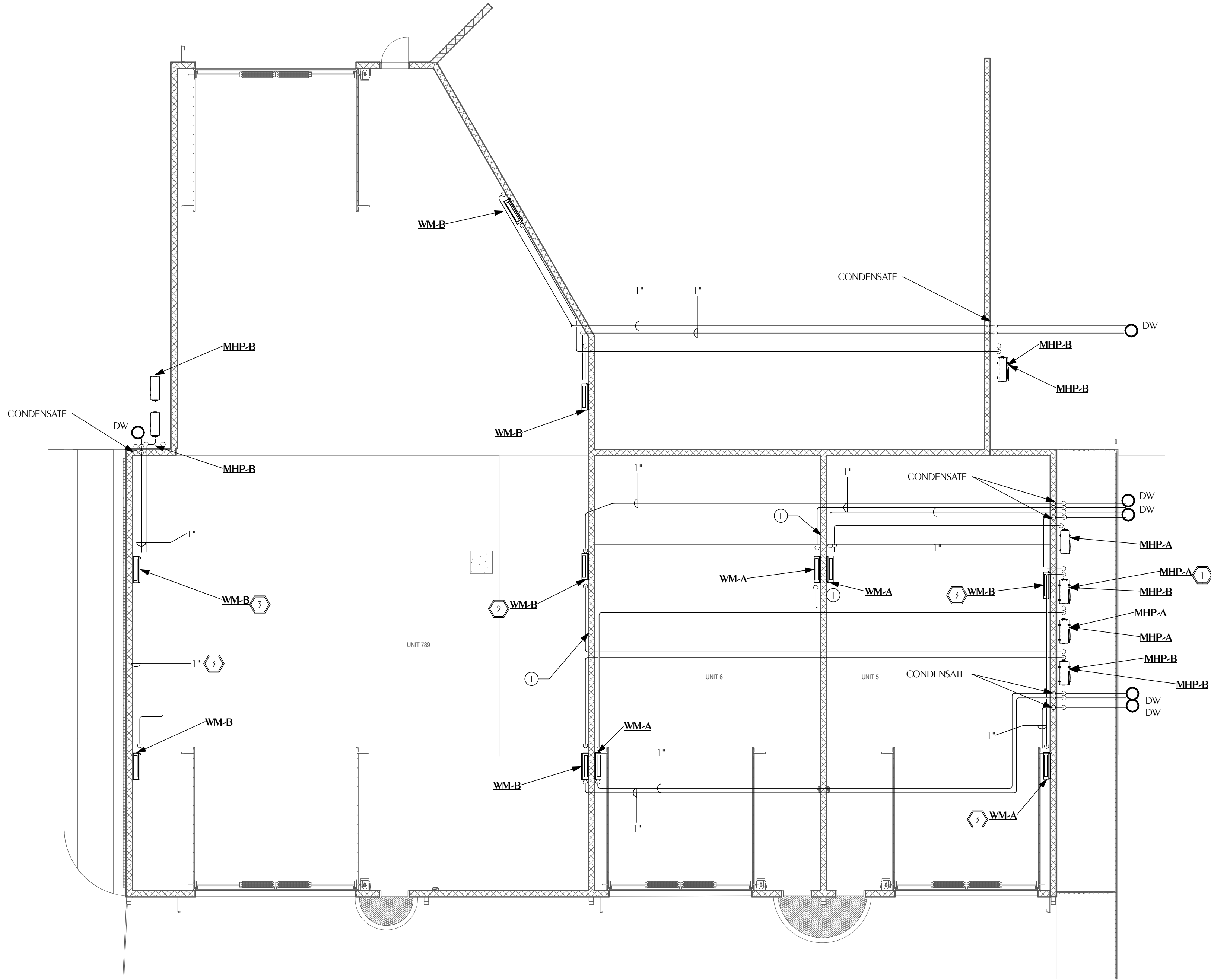
**HVAC LEVEL 1
SALES/BLDG A
NEW WORK
FLOOR PLAN**

M-100

**WATFORD
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1 HVAC LEVEL 1 BLDG B NEW WORK FLOOR PLAN
M-101 SCALE: 1/8" = 1'-0"
PROJECT NORTH TRUE NORTH

SHEET NOTES

- 1 UNITS MOUNTED TO WALL WITH MANUFACTURER'S WALL MOUNT KIT. MOUNT UNITS AT GROUND HEIGHT AND 5' FEET ABOVE GRADE. TYPICAL.
- 2 ROUTE CONDENSATE AND REFRIGERANT PIPING UP TO CEILING. TYPICAL.
- 3 DO NOT ROUTE PIPING UP TO CEILING. TAKE DIRECTLY OUT OF BUILDING AND DOWN TO DRY WELL AND HEAT PUMP.

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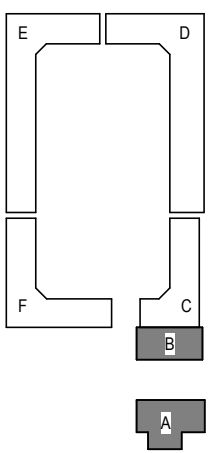
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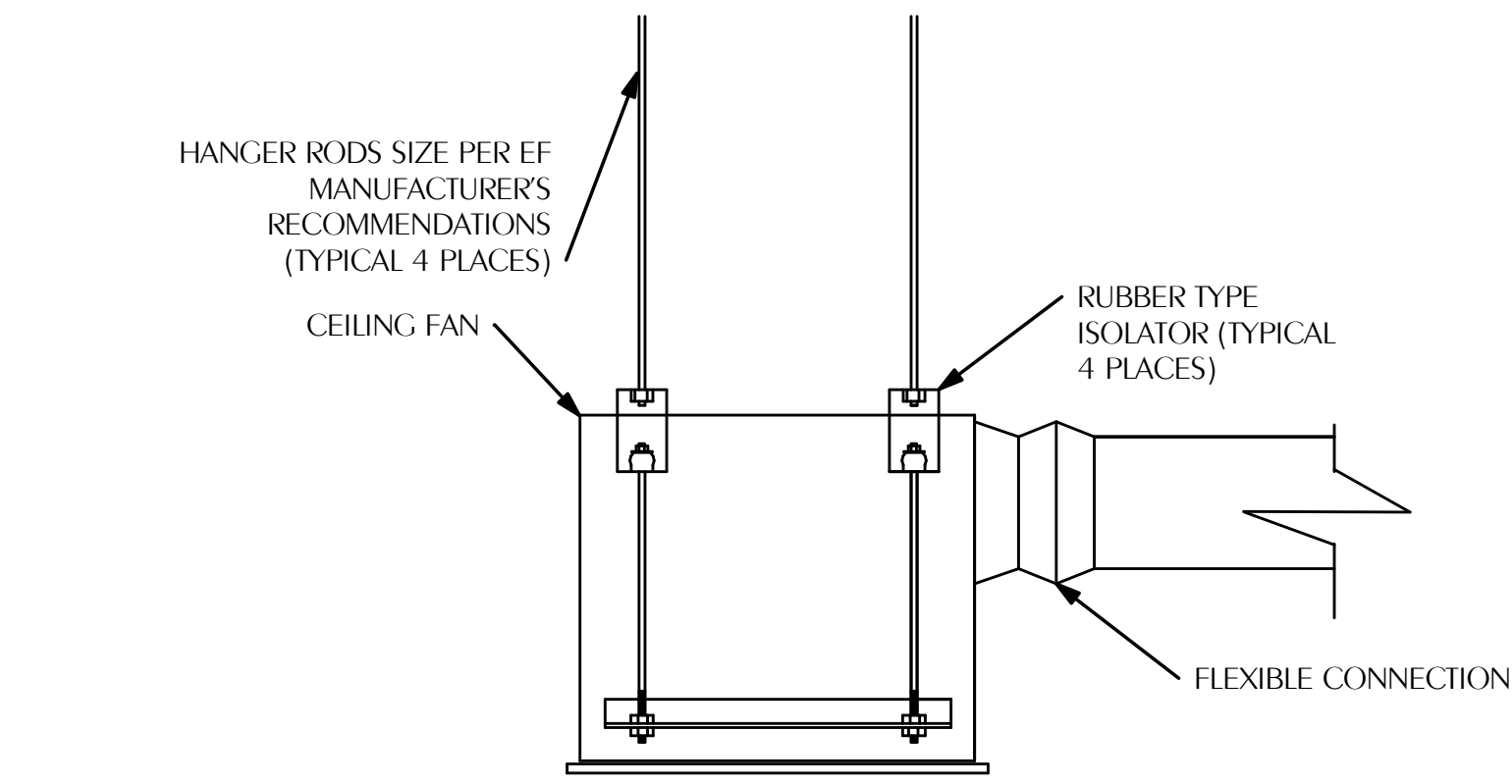
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**HVAC LEVEL 1
BLDG B NEW
WORK FLOOR
PLAN**

M-101

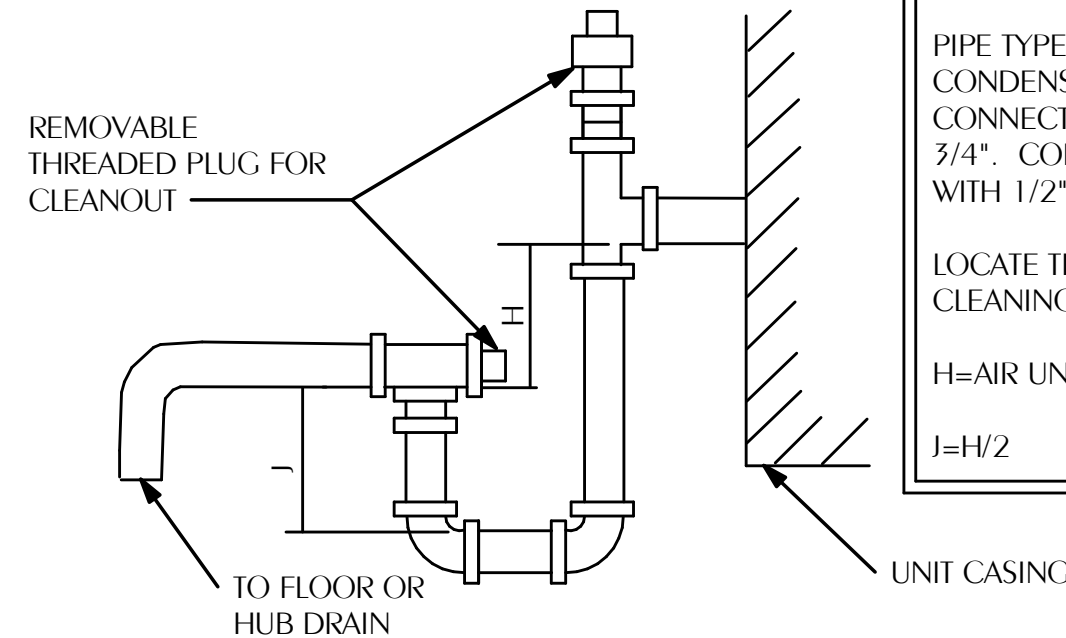
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1 CEILING FAN DETAIL

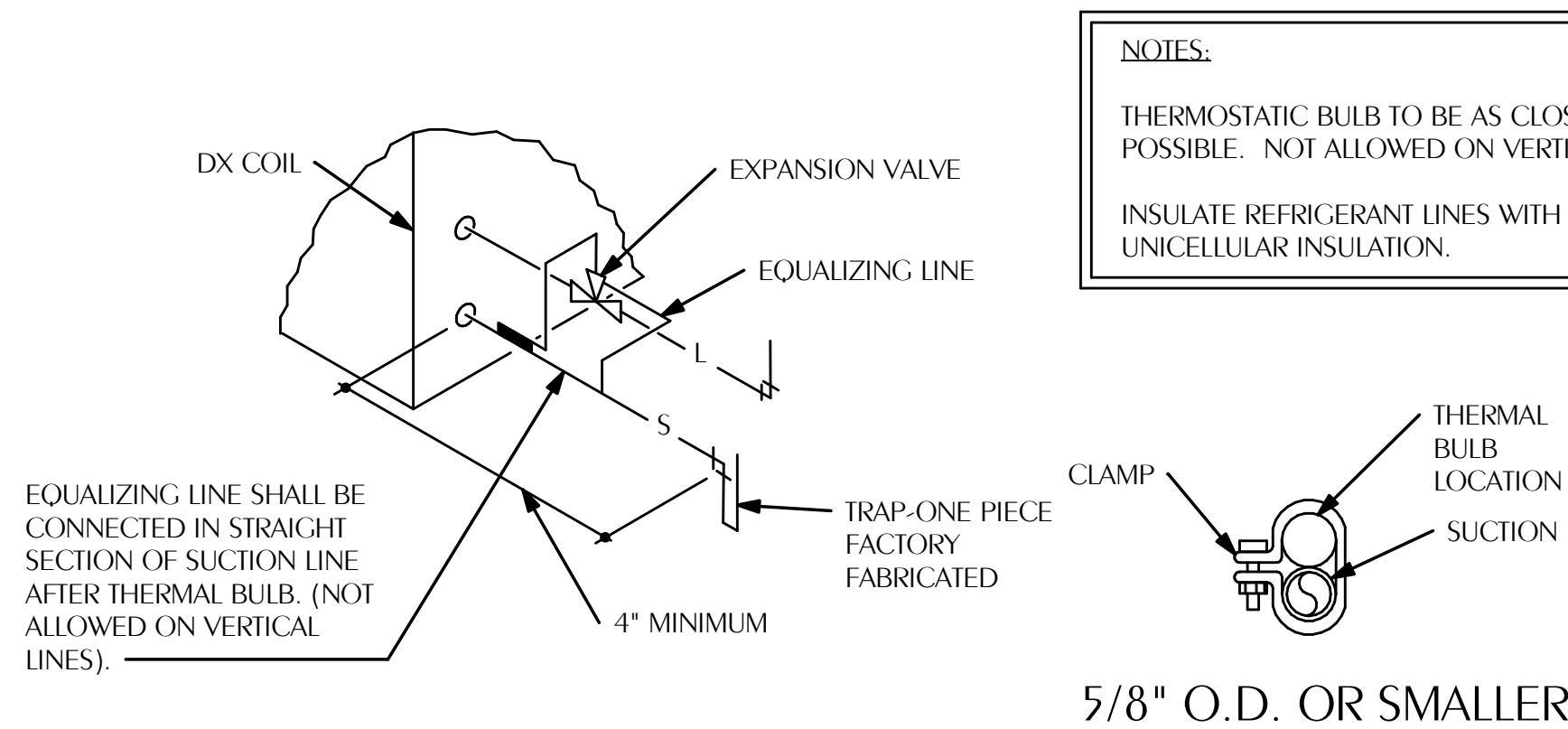
M-200 SCALE: NONE



2 NEGATIVE PRESSURE CONDENSATE DRAIN TRAP

M-200 SCALE: NONE

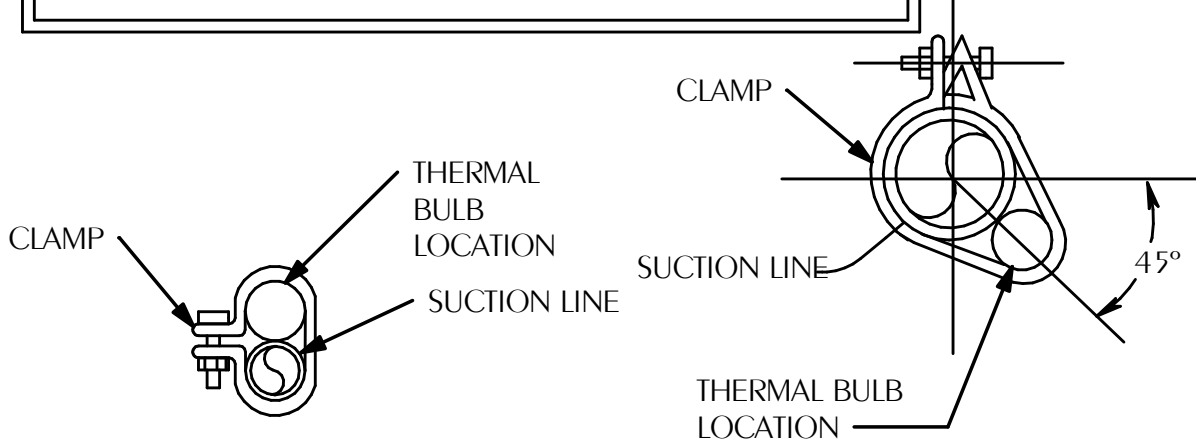
NOTES:
PIPE TYPE 'L' HARD DRAWN COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4". CONDENSATE LINES SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR INSULATION.
LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
H=AIR UNIT TOTAL STATIC PRESSURE + 1"
J=H/2



3 REFRIGERANT COIL CONNECTION DETAIL

M-200 SCALE: NONE

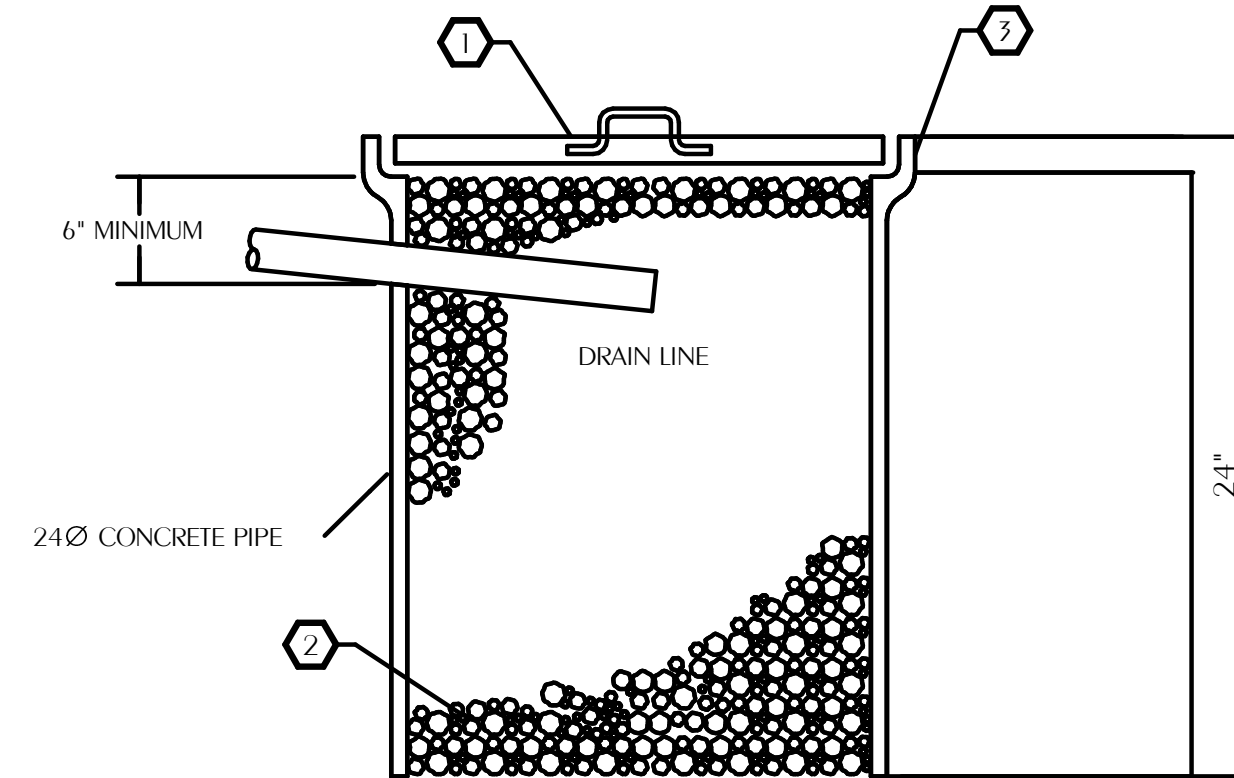
NOTES:
THERMOSTATIC BULB TO BE AS CLOSE TO COIL AS POSSIBLE. NOT ALLOWED ON VERTICAL LINES.
INSULATE REFRIGERANT LINES WITH 3/4" FLEXIBLE UNICELLULAR INSULATION.



4 OVERHEAD PIPE SUPPORT

M-200 SCALE: NONE

- 1 INSULATION
- 2 PIPE COVERING PROTECTION SADDLE
- 3 HANGER ROD FASTEN TO STRUCTURE PER SPECIFICATIONS
- 4 CLEVIS TYPE HANGER

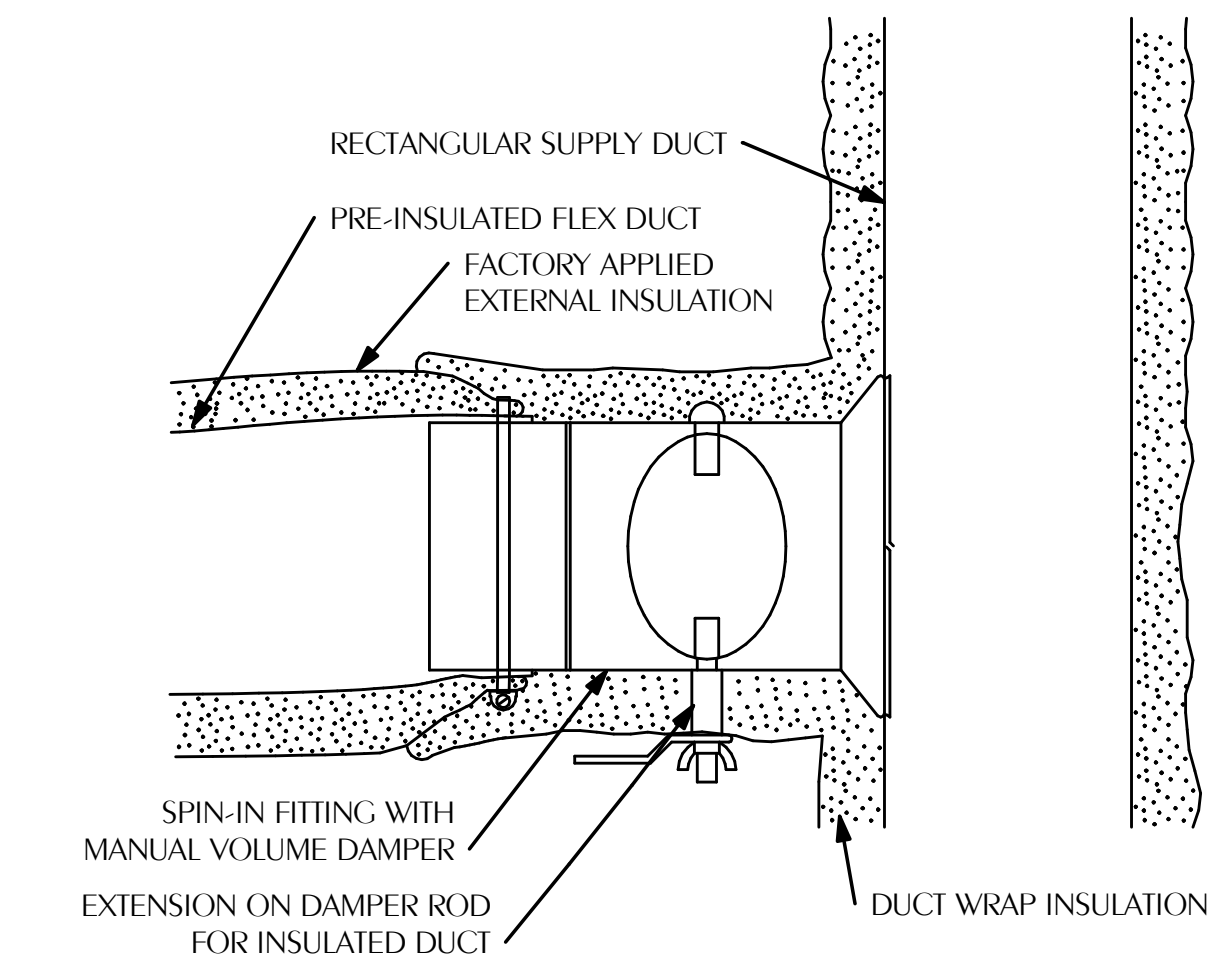


- 1 2" THICK CONCRETE COVER WITH CAST-IRON LIFT HANDLE, REINF. WITH 4x4x10 WWF MESH.
- 2 COURSE GRAVEL FILLER, APPROX. 1-1/2" DIAMETER.
- 3 TOP 2" ABOVE GRADE.

CONTRACTOR'S OPTION: PROVIDE 24" DIAMETER "FLO-WELL" STRUCTURAL POLYOLEFIN FOUND DRY WELL SYSTEM WITH UV INHIBITORS.

5 DRYWELL DETAIL

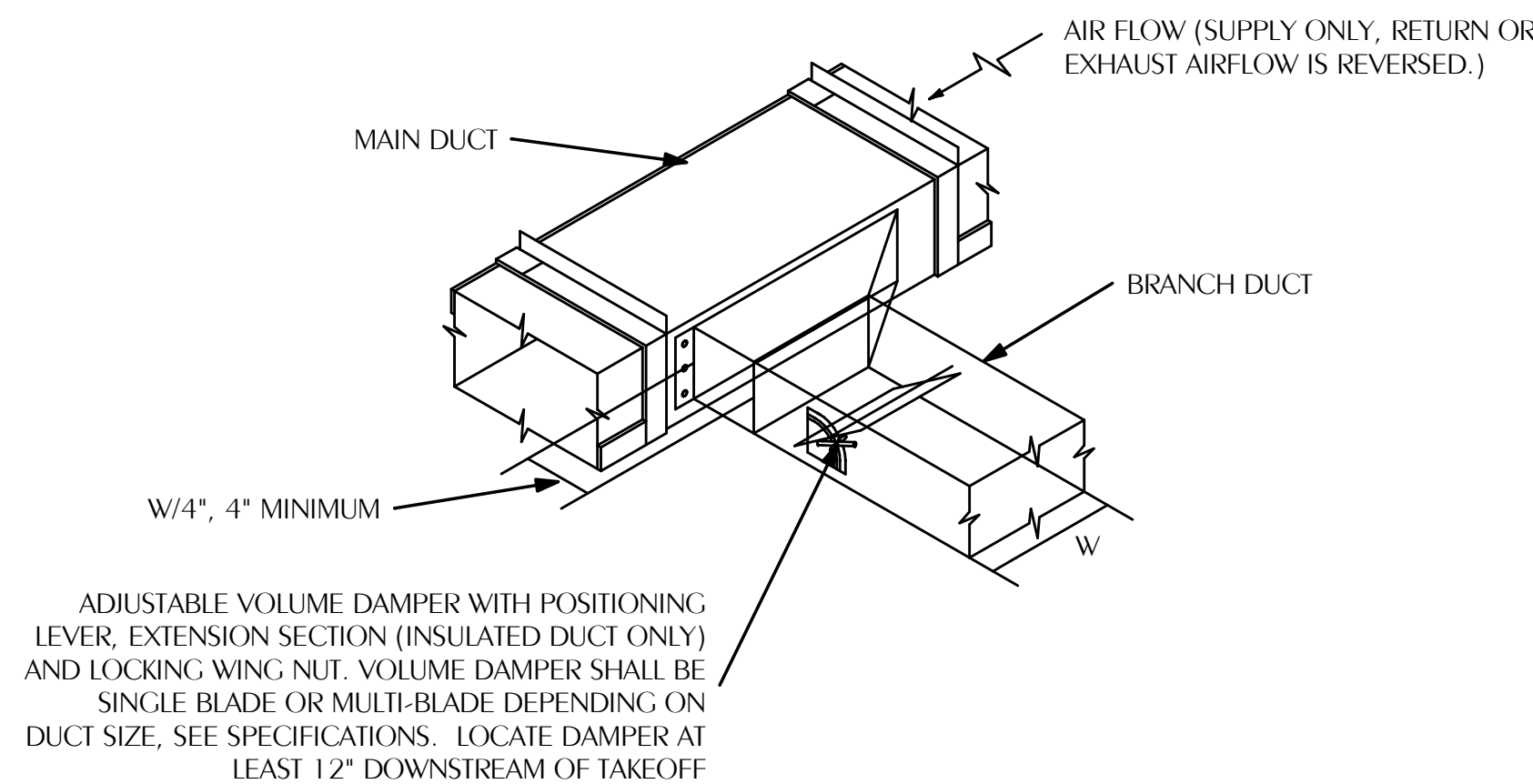
M-200 SCALE: NONE



NOTES:
CONNECT FLEXIBLE DUCT TO FITTING WITH DRAWBAND AND SEALER.
ROUND HARD DUCT RUNOUTS SHOULD START WITH SPIN-IN FITTINGS SIMILAR TO THIS DETAIL.
PROVIDE REMOTE CABLE ACTUATOR FOR AIR DEVICE IN HARD CEILINGS WITHOUT ACCESS. MOUNT ACTUATOR IN FACE OF AIR DEVICE.
FLEXIBLE INSULATION SHALL BE 2" THICK, ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

6 TYPICAL FLEX DUCT TAKEOFF DETAIL

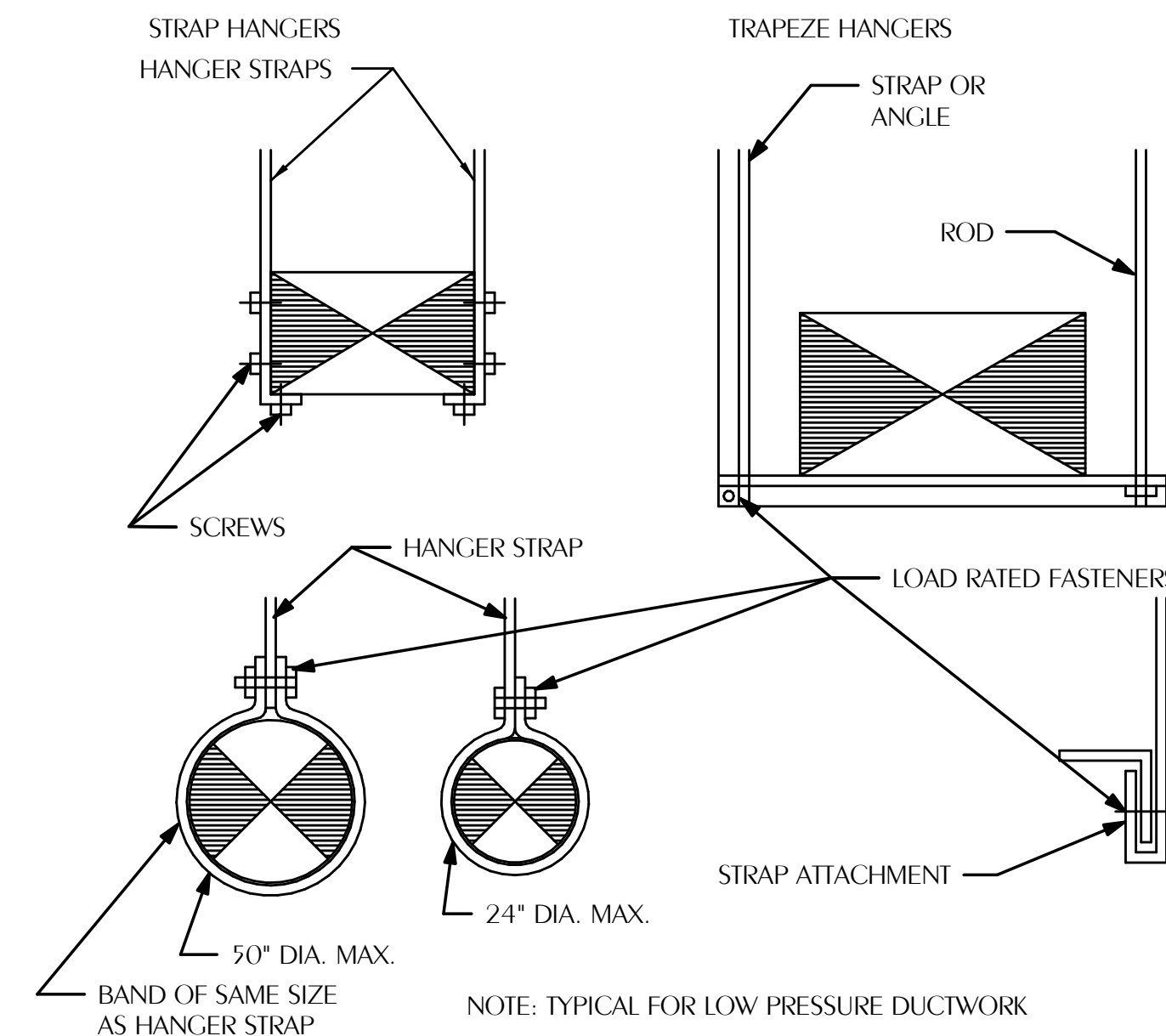
M-200 SCALE: NONE



NOTES:
PROVIDE REMOTE CABLE ACTUATOR FOR AIR DEVICE IN HARD CEILINGS WITHOUT ACCESS. MOUNT ACTUATOR IN FACE OF AIR DEVICE.
FLEXIBLE INSULATION SHALL BE 2" THICK, ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

7 TYPICAL BRANCH DUCT TAKEOFF

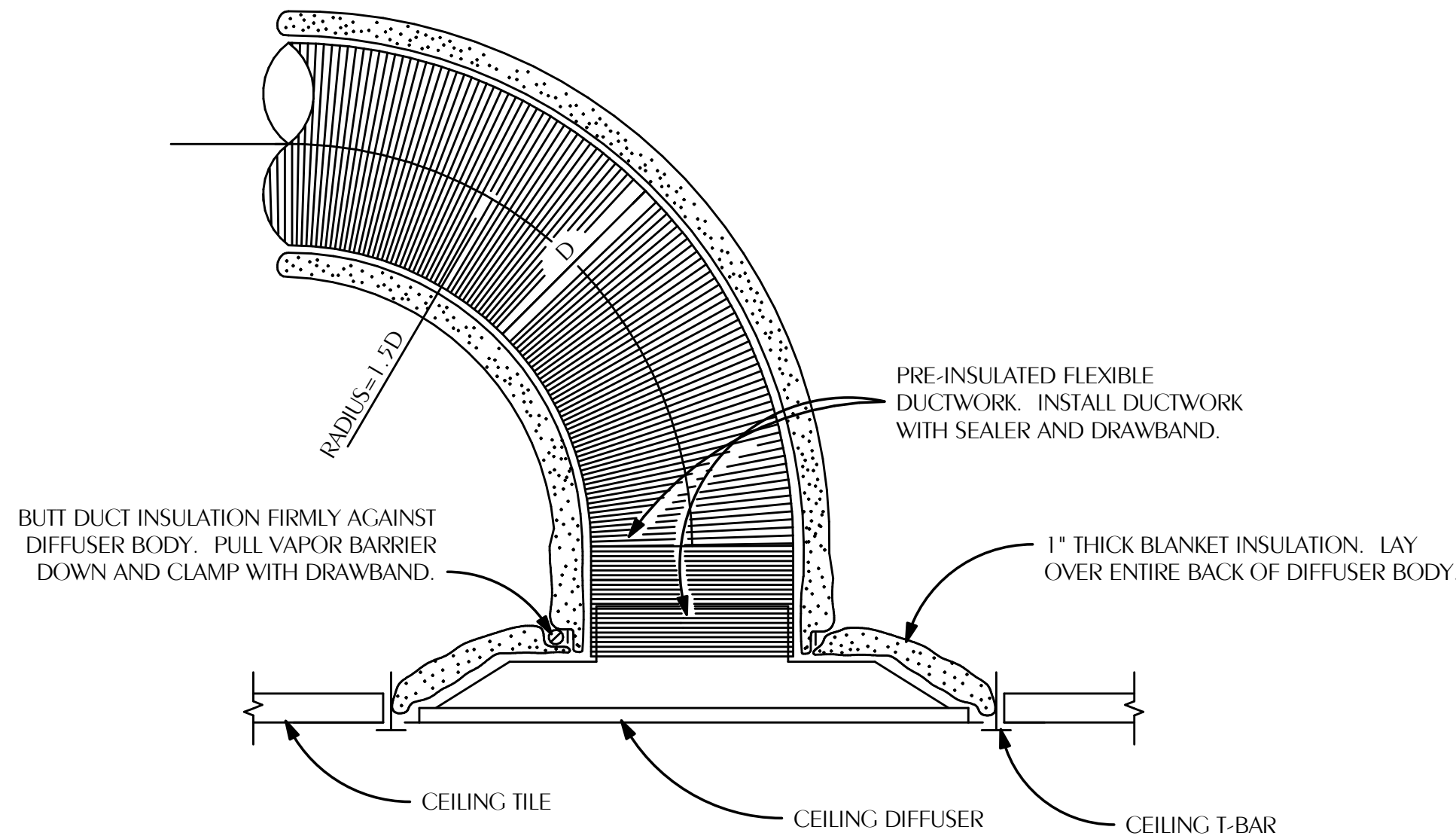
M-200 SCALE: NONE



8 TYPICAL DUCT HANGER DETAILS

M-200 SCALE: NONE

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NOTES:

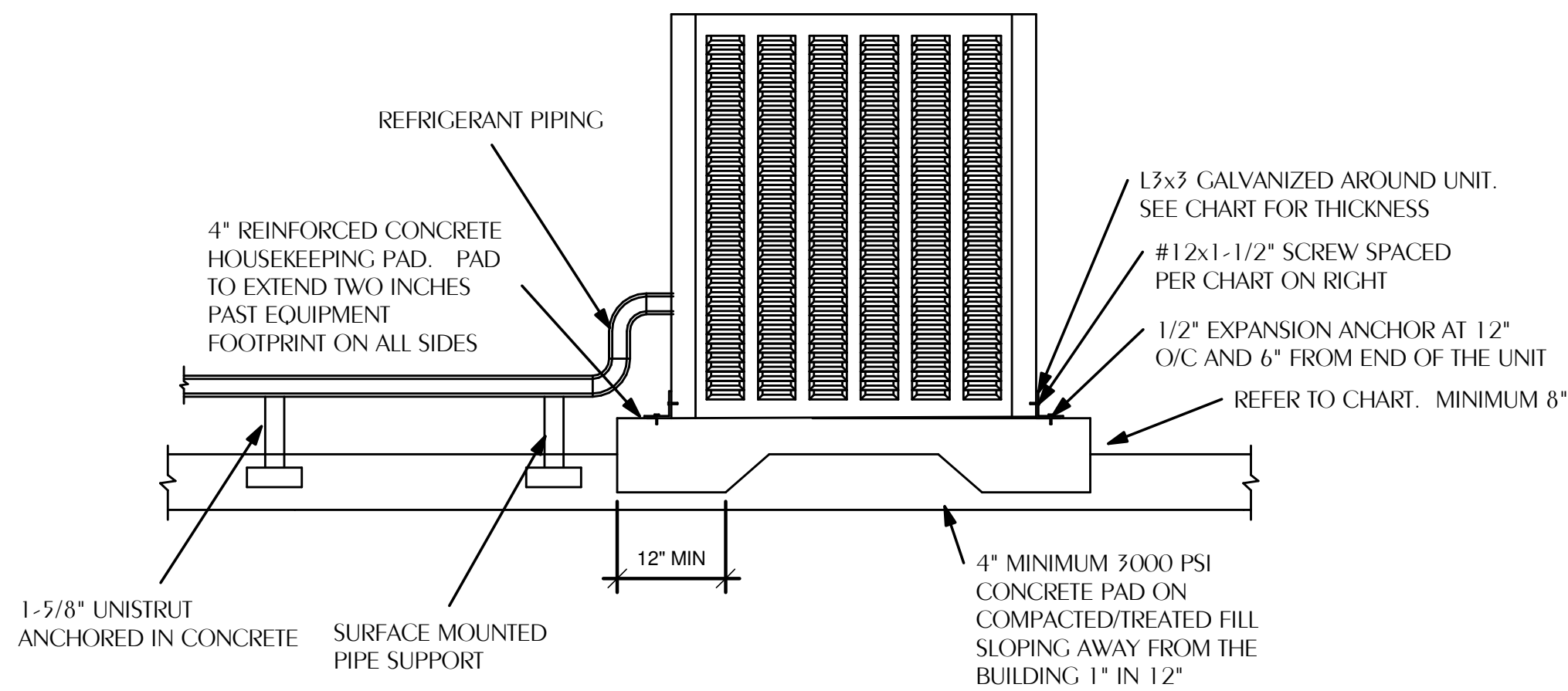
FLEX DUCT SHALL BE NO LONGER THAN 5'-0\"/>

PROVIDE 24X24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.

PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

1 TYPICAL CEILING DIFFUSER DETAILS

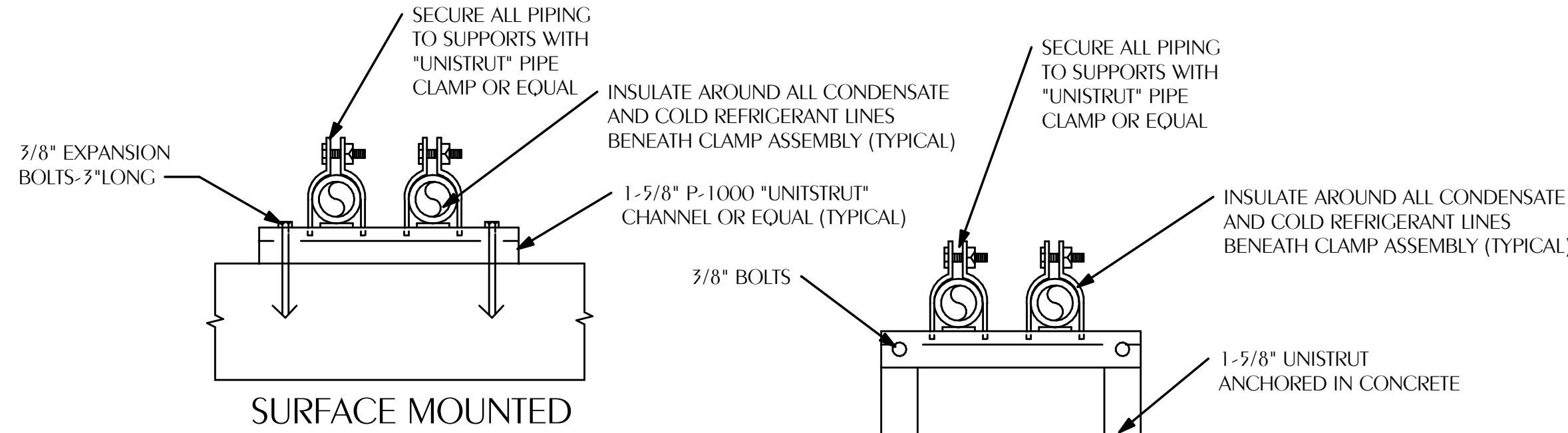
M-201 SCALE: NONE



TYPICAL OUTDOOR MECHANICAL UNIT MOUNTING
DETAIL

4

M-201 SCALE: NONE



NOTE:

PROVIDE FACTORY END CAPS FOR CHANNEL.

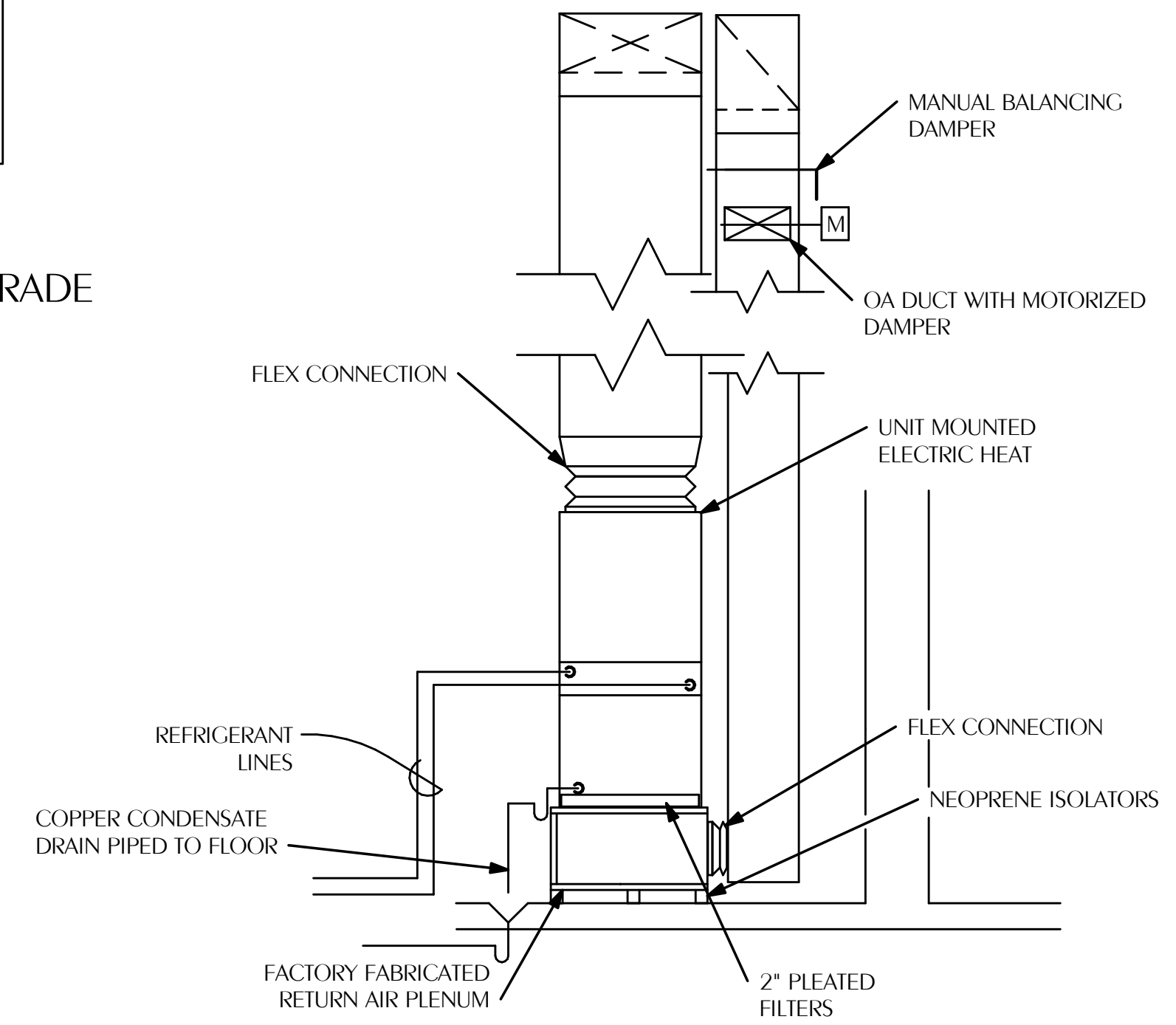
PROVIDE ALUMINUM JACKET BETWEEN INSULATION AND PIPE CLAMP AT ALL INDOOR LOCATIONS.

PROVIDE SMOOTH ALUMINUM JACKET OVER ALL EXPOSED OUTDOOR INSULATION.

PROVIDE SUPPORT AT INTERVALS REQUIRED BY THE FLORIDA BUILDING CODE.

2 TYPICAL EXTERIOR PIPING SUPPORT DETAIL

M-201 SCALE: NONE



NOTES:

SECURE REFRIGERANT LINES AND CONDENSATE PIPING WITH UNISTRUT.

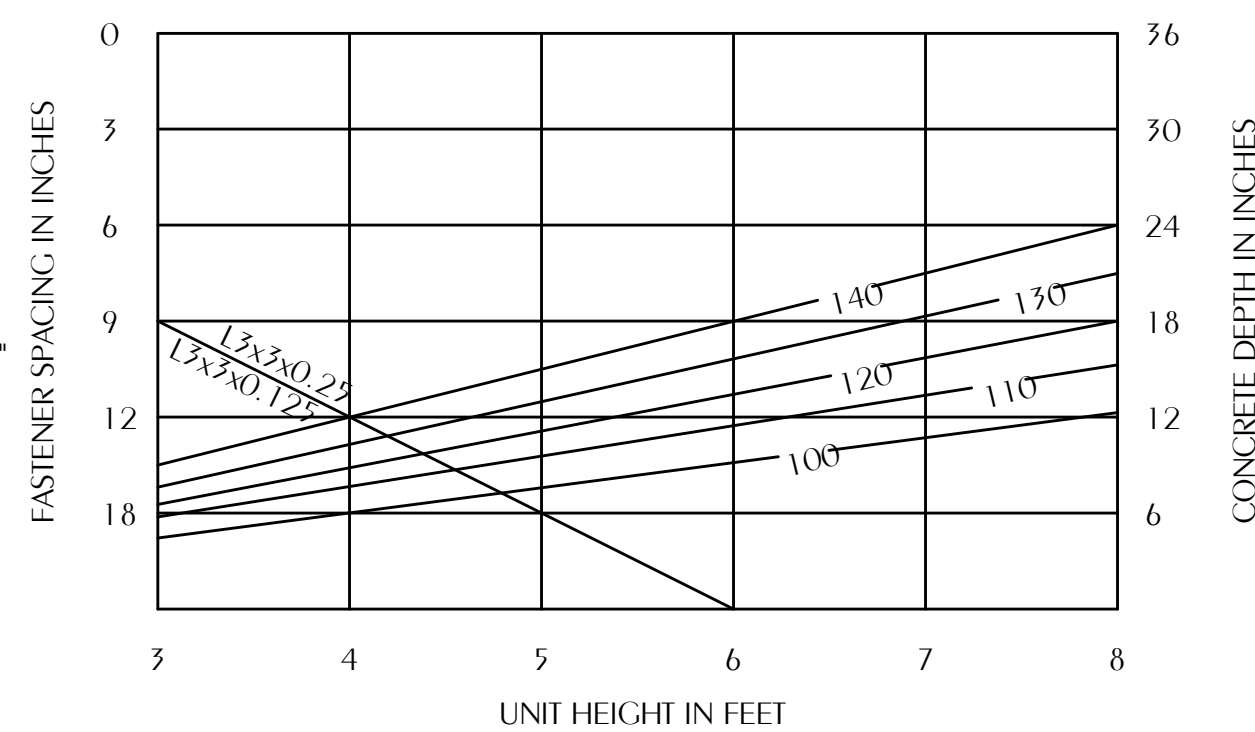
PROVIDE FACTORY FABRICATED RETURN AIR PLENUM OR ENGINEER APPROVED EQUAL WITH 2\"/>

SIZE COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4\"/>

3 VERTICAL UPFLOW AHU DETAIL

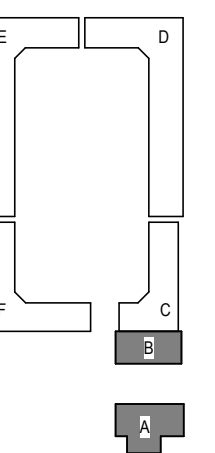
M-201 SCALE: NONE

UNIT MOUNTING CHART BASED ON WIND SPEED IN MPH (3 SECOND GUST)(GROUND MOUNTING ONLY)

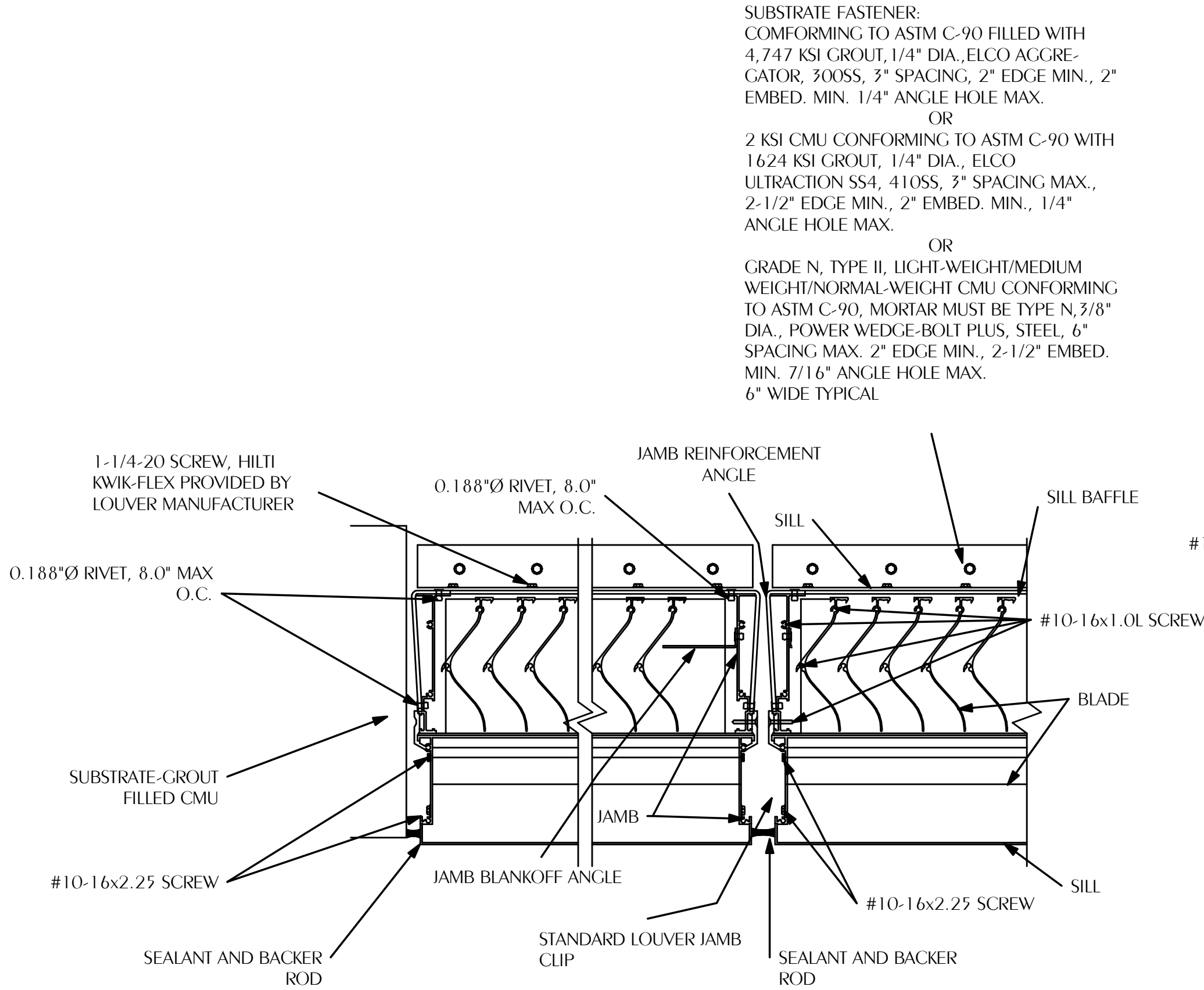


DESIGN CRITERIA:

CODE:	ASCE 7-10
VELOCITY:	SEE BELOW
Kz:	0.70
Kzt:	1.00
Kd:	0.85
IMPORTANCE:	1.15
EXPOSURE:	B
Cf:	1.3
Ce:	0.85
qz:	
100 mph	17.52 psf
110 mph	21.20 psf
120 mph	25.22 psf
130 mph	29.60 psf
140 mph	34.33 psf
Pdesign:	
100 mph	19.36 psf
110 mph	23.42 psf
120 mph	27.87 psf
130 mph	32.71 psf
140 mph	37.94 psf



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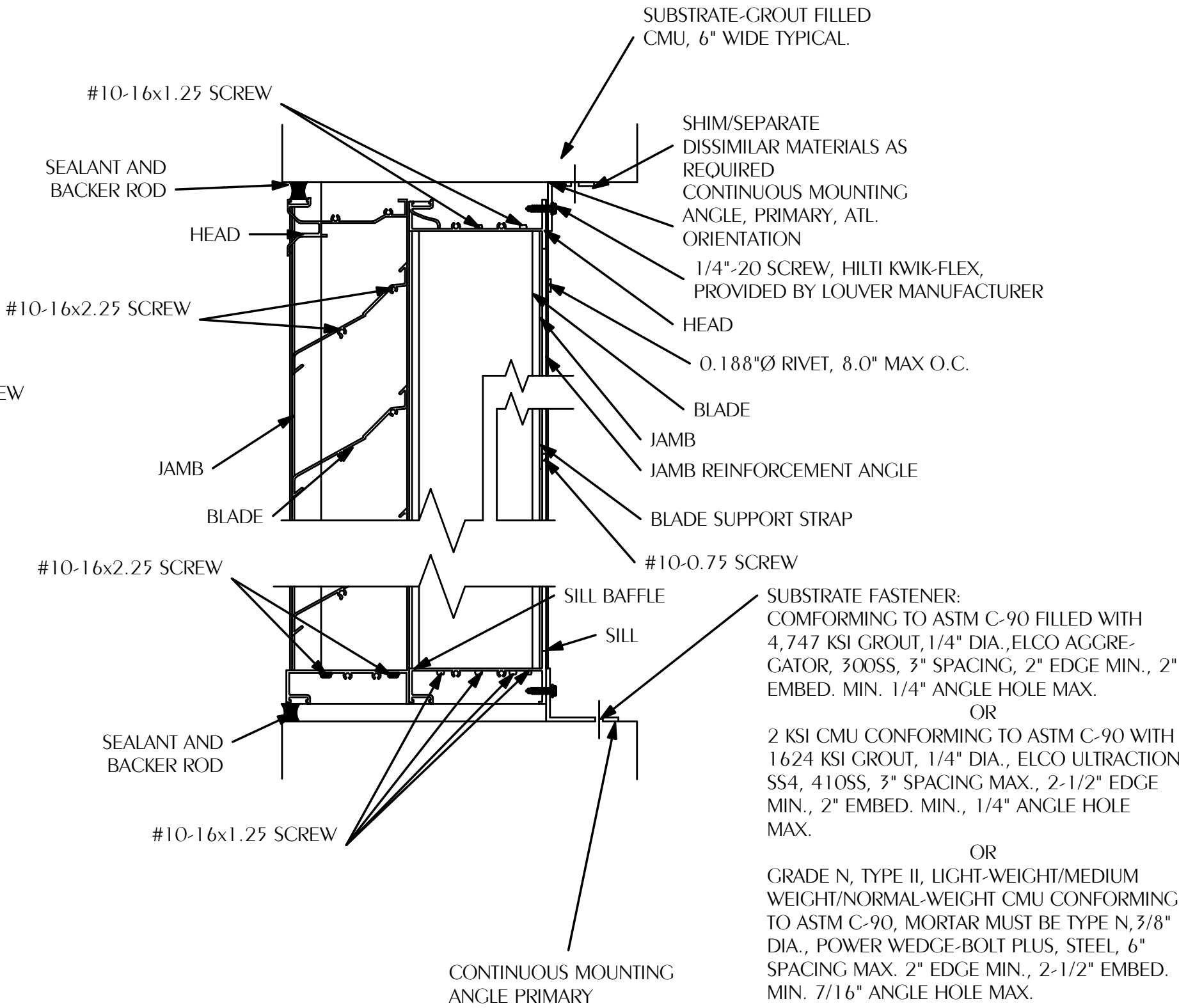
SUBSTRATE FASTENER:
CONFORMING TO ASTM C-90 FILLED WITH 4,747 KSI GROUT, 1/4" DIA., ELCO AGGREGATOR, 300SS, 3" SPACING, 2" EDGE MIN., 2" EMBED. MIN. 1/4" ANGLE HOLE MAX.

OR

2 KSI CMU CONFORMING TO ASTM C-90 WITH 1624 KSI GROUT, 1/4" DIA., ELCO ULTRACTION SS4, 410SS, 3" SPACING MAX., 2-1/2" EDGE MIN., 2" EMBED. MIN., 1/4" ANGLE HOLE MAX.

OR

GRADE N, TYPE II, LIGHT-WEIGHT/MEDIUM WEIGHT/NORMAL-WEIGHT CMU CONFORMING TO ASTM C-90, MORTAR MUST BE TYPE N, 3/8" DIA., POWER WEDGE-BOLT PLUS, STEEL, 6" SPACING MAX. 2" EDGE MIN., 2-1/2" EMBED. MIN. 7/16" ANGLE HOLE MAX. 6" WIDE TYPICAL



NOA # 23-1030.03

- NOTES:
1. THE INSTALLATION SHOWN HEREIN MUST BE FOLLOWED STRICTLY TO ENSURE COMPLIANCE WITH FLORIDA BUILDING CODE PRODUCT APPROVAL.
 2. CONTINUOUS INSTALLATION ANGLES AND FASTENERS ARE SHIPPED LOOSE AND REQUIRE INSTALLATION IN THE FIELD.
 3. SHIMS MAY BE REQUIRED TO ACHIEVE CONSISTENT CLEARANCE BETWEEN LOUVER AND OPENING ON ALL SIDES.
 4. INSTALLATION DETAIL IS BASED UPON GREENHECK MODEL 'EHV-901D'. IF AN ALTERNATE MANUFACTURER'S LOUVER IS USED, IT MUST BE INSTALLED WITH ITS FLORIDA PRODUCT APPROVAL.

1 WALL LOUVER DETAIL
M-202 SCALE: NONE

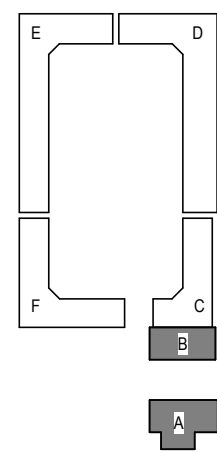
Digital Signature

FOR PERMIT

CLIENT NAME

**GARAGES
LUXURY AT
MIRAMAR -
PHASE 1**

U.S. Highway 98
Miramar Beach, FL



REVISIONS
NO. DESCRIPTION DATE

Project Number **25038**
Dated 10.05.2026