

DEFINE

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR	HWS	HEATING HOT WATER SUPPLY
ADA	AMERICANS WITH DISABILITIES ACT	HWR	HEATING HOT WATER RETURN
AFF	ABOVE FINISHED FLOOR	KH	KITCHEN HOOD
AHU	AIR HANDLING UNIT	KW	KILOWATT
APD	AIR PRESSURE DROP	LAT	LEAVING AIR TEMPERATURE
BOD	BOTTOM OF DUCT	LWT	LEAVING WATER TEMPERATURE
BOP	BOTTOM OF PIPE	MBH	1000 BRITISH THERMAL UNITS PER HOUR
BTUH	BRITISH THERMAL UNITS PER HOUR	MVD	MANUAL VOLUME DAMPER
C	CONDENSATE	N.O.	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	N.C.	NORMALLY CLOSED
CT	CHILLER	NTS	NOT TO SCALE
CHS	CHILLED WATER SUPPLY	NC	NOISE CRITERIA
CHR	CHILLED WATER RETURN	OA	OUTSIDE AIR
COP	COEFFICIENT OF PERFORMANCE	OBD	OPOSED BLADE DAMPER
CT	COOLING TOWER	PD	PRESSURE DROP
CU	CONDENSING UNIT	PHWR	PLANT HEATING HOT WATER RETURN
CV	CONSTANT VOLUME	PHWS	PLANT HEATING HOT WATER SUPPLY
CS	CONDENSER WATER SUPPLY	PRV	PRESSURE REDUCING VALVE
CR	CONDENSER WATER RETURN	PSIG	POUNDS PER SQUARE INCH GAGE
DB	DRY BULB	RA	RETURN AIR
DOAS	DEDICATED 100% OUTSIDE AIR UNIT	RH	RELATIVE HUMIDITY
EA	EXHAUST AIR	RHC	REHEAT COIL
EAT	ENTERING AIR TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
ECO	EXTERIOR CLEANOUT	RTU	ROOFTOP A/C UNIT
EDH	ELECTRIC DUCT HEATER	SA	SUPPLY AIR
EER	ENERGY EFFICIENCY RATIO	SD	STORM DRAIN
EF	EXHAUST FAN	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EMS	ENERGY MANAGEMENT SYSTEM	SF	SUPPLY FAN
ESP	EXTERNAL STATIC PRESSURE	SP	STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER	SWR	SIDE WALL REGISTER
EWC	ELECTRIC WATER COOLER	TSP	TOTAL STATIC PRESSURE
EWH	ELECTRIC WATER HEATER	TYP	TYPICAL
EWT	ENTERING WATER TEMPERATURE	UNO	UNLESS NOTED OTHERWISE
F	FAHRENHEIT	VAV	VARIABLE AIR VOLUME
FCO	FLOOR CLEANOUT	VFD	VARIABLE FREQUENCY DRIVE
FD	FLOOR DRAIN	VRF	VARIABLE REFRIGERANT FLOW
FLA	FULL LOAD AMPS	WB	WET BULB
FFE	FINISHED FLOOR ELEVATION	WG	WATER GAGE
FPI	FINS PER INCH	WPD	WATER PRESSURE DROP
HP	HORSEPOWER		

DESIGN

MECHANICAL LEGEND

GRILLES, REGISTERS, DIFFUSERS, AND LOUVERS				EQUIPMENT			
EXISTING	DEMO	NEW	DESCRIPTION	EXISTING	DEMO	NEW	DESCRIPTION
		A100	GRILLE DESIGNATION AND CFM				MECHANICAL EQUIPMENT. REFER TO SCHEDULES
			SURFACE MOUNT				IONIZATION UNIT
			LAY-IN SUPPLY CEILING DIFFUSER				SMOKE DETECTOR
			SUPPLY WALL DIFFUSER				MANUAL PULL STATION
DUCTWORK				CONTROLS			
EXISTING	DEMO	NEW	DESCRIPTION	EXISTING	DEMO	NEW	DESCRIPTION
			LINEAR SLOT DIFFUSER				THERMOSTAT
			RETURN/EXHAUST CEILING GRILLE				HUMIDISTAT
			RETURN/EXHAUST WALL GRILLE				SENSOR
			EXHAUST LOUVER				STATIC PRESSURE SENSOR
			EXHAUST WALL CAP				REMOTE TEMPERATURE SENSOR
			GRAVITY RELIEF HOOD				WALL SWITCH
			INTAKE LOUVER				CONTROL WIRING
			INTAKE WALL CAP				
			GRAVITY INTAKE HOOD				
PIPING							
EXISTING	DEMO	NEW	DESCRIPTION				
			RECTANGULAR DUCTWORK. REFER TO PLANS FOR SIZE.				
			ROUND DUCTWORK. REFER TO PLANS FOR SIZE.				
			ROUND DUCTWORK DROP/RISE.				
			DUCT DROP/RISE				
DAMPERS							
EXISTING	DEMO	NEW	DESCRIPTION				
			BALANCING DAMPER				
			MOTORIZED DAMPER				
			FIRE DAMPER				
			SMOKE DAMPER				
			FIRE & SMOKE DAMPER				

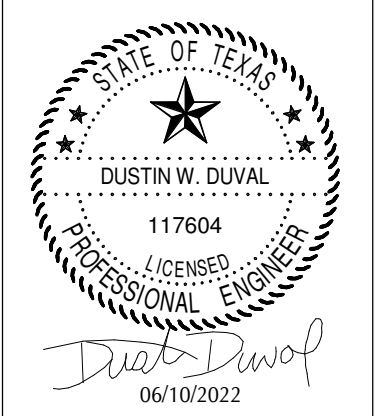
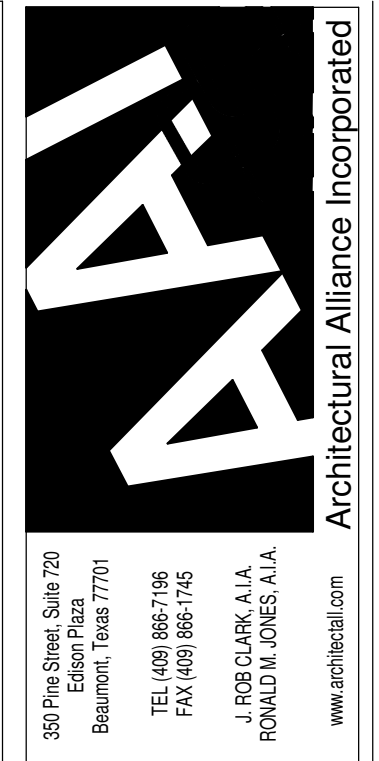
NOTES: 1. EXISTING ITEMS ON DEMO PLANS ARE "EXISTING TO REMAIN" UNLESS NOTED "EXISTING TO BE RELOCATED."
 2. ITEMS ON NEW CONSTRUCTION PLANS ARE NEW UNLESS NOTED "RELOCATED FROM PREVIOUS LOCATION."
 3. REFER TO SCHEDULES FOR GRILLE, REGISTER, DIFFUSER, AND LOUVER SIZES.
 4. REFER TO DRAWINGS FOR DIRECTION OF AIRFLOW FOR DIFFUSERS. IF DIRECTIONAL ARROWS ARE NOT INCLUDED, AIRFLOW IS IN FOUR DIRECTIONS. (4-WAY GRILLE)
 5. WALL MOUNTED CONTROL DEVICES SHALL BE MOUNTED AT 48" A.F.F.
 6. NOT ALL ITEMS SHOWN ON THIS LIST MAY BE APPLICABLE TO THIS PROJECT.

DELIVER

MECHANICAL GENERAL NOTES

- CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF DEMOLITION WORK AND NEW WORK NEEDED FOR THIS PROJECT, PRIOR TO SUBMITTING BID.
- CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SCOPE, CONSTRAINTS, UTILITY CONNECTIONS, AND BUILDING SERVICES, PRIOR TO SUBMITTING BID.
- CONTRACTOR SHALL GIVE FIRST RIGHT TO REFUSAL OF SALVAGE TO THE OWNER. IF THE OWNER ELECTS TO NOT KEEP SALVAGE, CONTRACTOR SHALL REMOVE SALVAGE BY LAWFUL MEANS.
- DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. DRAWINGS SHALL NOT BE SCALED. COORDINATE ROUTING OF SERVICES WITH SITE CONDITIONS AND WITH WORK OF OTHER TRADES.
- FIELD VERIFY DIMENSIONS PRIOR TO ORDERING, FABRICATING, AND ERECTION OF MATERIAL AND/OR EQUIPMENT. NOTIFY THE ENGINEER OF DISCREPANCIES IN A TIMELY MANNER.
- VERIFY CLEARANCE REQUIREMENTS AND ROUTING OF DUCTWORK AND PIPING PRIOR TO FABRICATION, AS MINOR MODIFICATIONS SUCH AS DUCT AND/OR PIPING RISES AND DROP MAY BE REQUIRED DUE TO FIELD CONDITIONS. MAKE MINOR MODIFICATIONS TO THE BUILDING, PIPING, SPRINKLER, DUCTWORK, ELECTRICAL, ETC. AS SHOWN ON THE DRAWINGS OR REQUIRED TO COMPLETE THE INSTALLATION OF A COMPLETED WORKABLE SYSTEM.
- MAINTAIN WEATHER-TIGHT BARRIERS TO PREVENT DAMAGE FROM THE ELEMENTS DURING DEMOLITION AND NEW CONSTRUCTION PERIOD.
- SEAL PENETRATIONS THROUGH THE BUILDING ENVELOPE.
- PENETRATIONS THROUGH RATED WALLS, FLOORS, PARTITIONS AND ASSEMBLIES SHALL BE INSTALLED AND FIRESAFED TO MEET UL, FIRE RESISTANCE LISTING AND NFPA REQUIREMENTS FOR THE PENETRATION.
- COORDINATE DEVICES REQUIRING ACCESS PANELS WITH THE ARCHITECT AND OTHER TRADES.
- COORDINATE FINAL LOCATIONS AND ELEVATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
- COORDINATE FINAL FINISH COLORS OF MATERIALS, DEVICES, DIFFUSER, GRILLES, LOUVERS, AND/OR EQUIPMENT WITH THE ARCHITECT PRIOR TO ORDERING, FABRICATION AND INSTALLATION.
- SCHEDULE UTILITY SERVICES SHUTDOWNS WITH OWNER AND ARCHITECT. MINIMIZE DISRUPTIONS AND DOWNTIME TO THE OWNER.
- INSTALL DEVICES AND EQUIPMENT TO MEET ADA REQUIREMENTS.
- ROUTE DUCT AND PIPING CONCEALED IN INTERSTITIAL SPACE UNLESS NOTED OTHERWISE.
- DOCUMENT LOCATIONS OF DEVICES, DUCT, PIPING, AND EQUIPMENT ON "AS-BUILT" RECORD DRAWINGS AS PER THE SPECIFICATIONS.
- PAY FOR SERVICE DEPOSITS, INSPECTION, AND CONNECTION FEES REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE WITH THE UTILITY SERVICE PROVIDER FOR THE REQUIREMENTS NEEDED FOR THIS PROJECT.
- HVAC SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 90A AND NFPA 101.
- WORK SHOWN IN THE DRAWINGS SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES.

meconsulting.com



SMITH BUILDING RENOVATION
 SPINDLETOP CENTER
 BEAUMONT, TX 77701
 655 S. 8TH STREET

ISSUED FOR SCHEMATIC DESIGN

DATE: _____

DESIGN DEVELOPMENT

DATE: _____

BIDS & CONSTRUCTION

DATE: 6/13/22

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

REVISION: _____

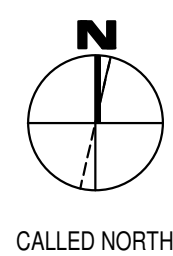
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DRAWINGS SHEET TITLE
MECHANICAL LEGEND & GENERAL NOTES

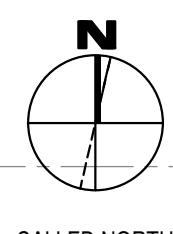
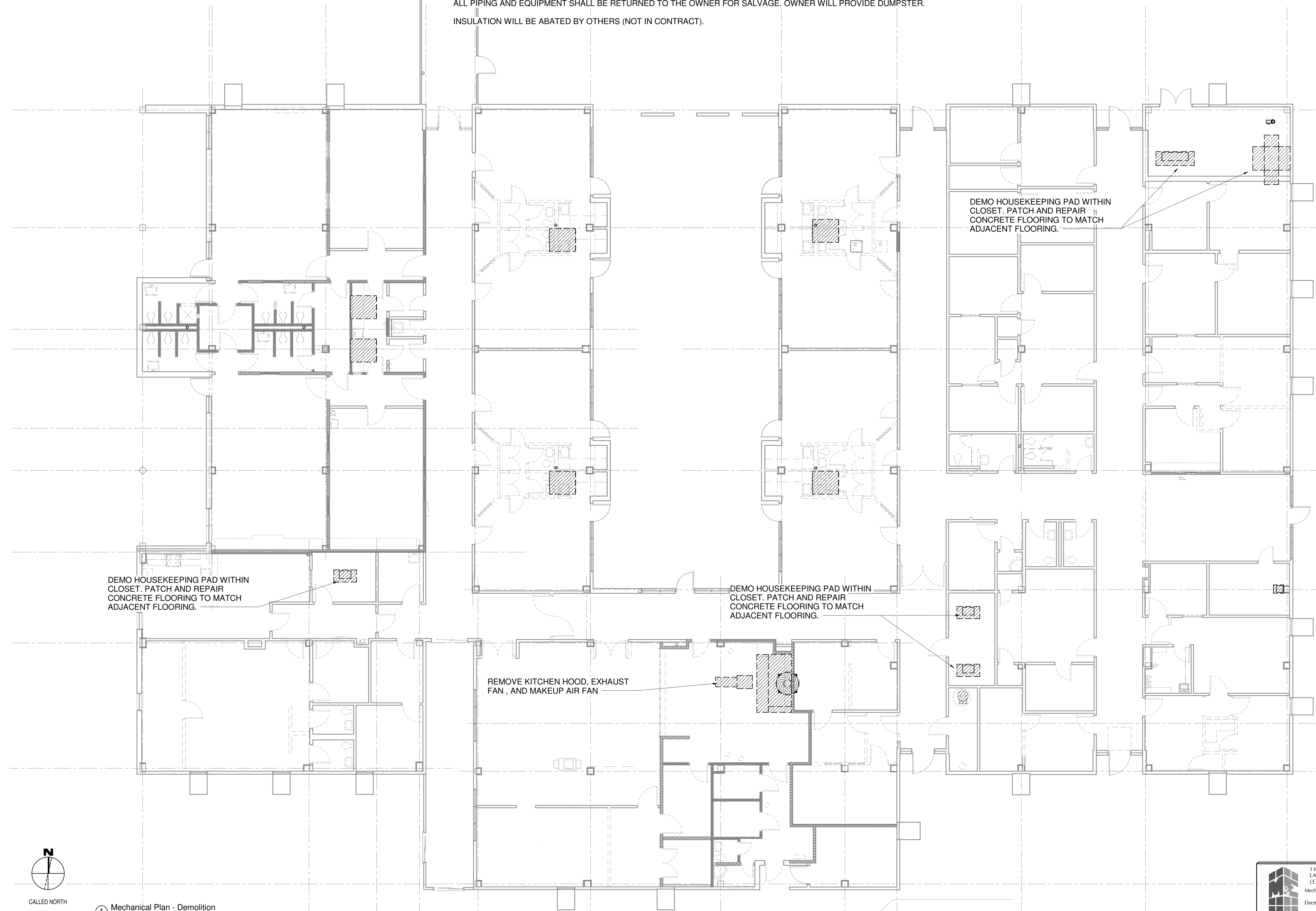
SHEET NUMBER
M000
 21032
 PROJECT NUMBER

1304 BERTRAND DRIVE SUITE F7
 LAFAYETTE, LOUISIANA 70506
 (337) 234-7474 * FAX (337) 234-7774

Mechanical Contact: Hogan Guidry
 hogan@meconsulting.com
 Electrical Contact: David Carnali
 david@meconsulting.com
 PROJECT No.: 21198.00



REMOVE ALL HYDRONIC EQUIPMENT. CHILLER, AIR HANDLING UNITS, FAN COIL UNITS, DUCT WORK, GRILLES, ACCESSORIES, EXHAUST FANS, ETC.
ALL PIPING AND EQUIPMENT SHALL BE RETURNED TO THE OWNER FOR SALVAGE. OWNER WILL PROVIDE DUMPSTER.
INSULATION WILL BE ABATED BY OTHERS (NOT IN CONTRACT).

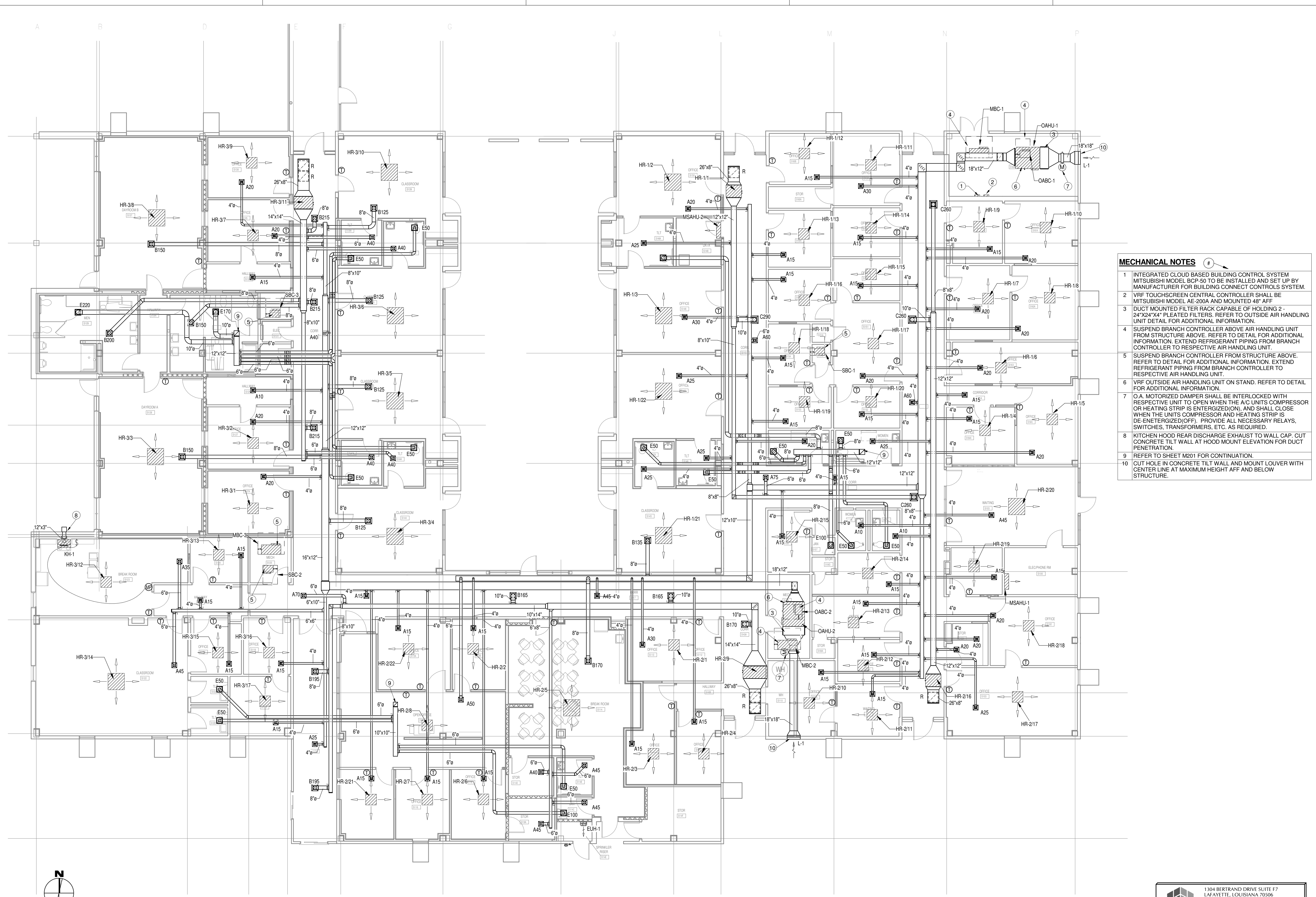


CALLED NORTH

1 Mechanical Plan - Demolition
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

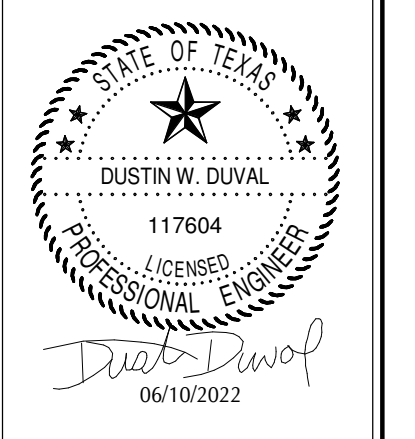
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(337) 234-7474 • FAX (337) 234-7274

Mechanical Contact: Hogan Guidry
hogan@meconsulting.com
Electrical Contact: David Carnall
david@meconsulting.com
PROJECT No.: 21198.00



- MECHANICAL NOTES**
- INTEGRATED CLOUD BASED BUILDING CONTROL SYSTEM MITSUBISHI MODEL BCP-50 TO BE INSTALLED AND SET UP BY MANUFACTURER FOR BUILDING CONNECT CONTROLS SYSTEM.
 - VRF TOUCHSCREEN CENTRAL CONTROLLER SHALL BE MITSUBISHI MODEL AE-200A AND MOUNTED 48" AFF FOR ADDITIONAL INFORMATION.
 - DUCT MOUNTED FILTER RACK CAPABLE OF HOLDING 2 - 24"x24" X4" PLEATED FILTERS. REFER TO OUTSIDE AIR HANDLING UNIT DETAIL FOR ADDITIONAL INFORMATION.
 - SUSPEND BRANCH CONTROLLER ABOVE AIR HANDLING UNIT FROM STRUCTURE ABOVE. REFER TO DETAIL FOR ADDITIONAL INFORMATION. EXTEND REFRIGERANT PIPING FROM BRANCH CONTROLLER TO RESPECTIVE AIR HANDLING UNIT.
 - SUSPEND BRANCH CONTROLLER FROM STRUCTURE ABOVE. REFER TO DETAIL FOR ADDITIONAL INFORMATION. EXTEND REFRIGERANT PIPING FROM BRANCH CONTROLLER TO RESPECTIVE AIR HANDLING UNIT.
 - VRF OUTSIDE AIR HANDLING UNIT ON STAND. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
 - O.A. MOTORIZED DAMPER SHALL BE INTERLOCKED WITH RESPECTIVE UNIT TO OPEN WHEN THE A/C UNITS COMPRESSOR OR HEATING STRIP IS ENTERGIZED(ON), AND SHALL CLOSE WHEN THE UNITS COMPRESSOR AND HEATING STRIP IS DE-ENTERGIZED(OFF). PROVIDE ALL NECESSARY RELAYS, SWITCHES, TRANSFORMERS, ETC. AS REQUIRED.
 - KITCHEN HOOD REAR DISCHARGE EXHAUST TO WALL CAP. CUT CONCRETE TILT WALL AT HOOD MOUNT ELEVATION FOR DUCT PENETRATION.
 - REFER TO SHEET M201 FOR CONTINUATION.
 - CUT HOLE IN CONCRETE TILT WALL AND MOUNT LOUVER WITH CENTER LINE AT MAXIMUM HEIGHT AFF AND BELOW STRUCTURE.

1 Mechanical Plan
 1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions
 CALLED NORTH



SMITH BUILDING RENOVATION
SPINDLETOP CENTER
 655 S. 8TH STREET
 BEAUMONT, TX 77701

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 DATE: _____

DRAWINGS SHEET TITLE
MECHANICAL PLAN

SHEET NUMBER
M200
 21032
 PROJECT NUMBER

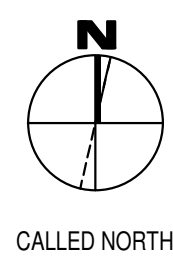
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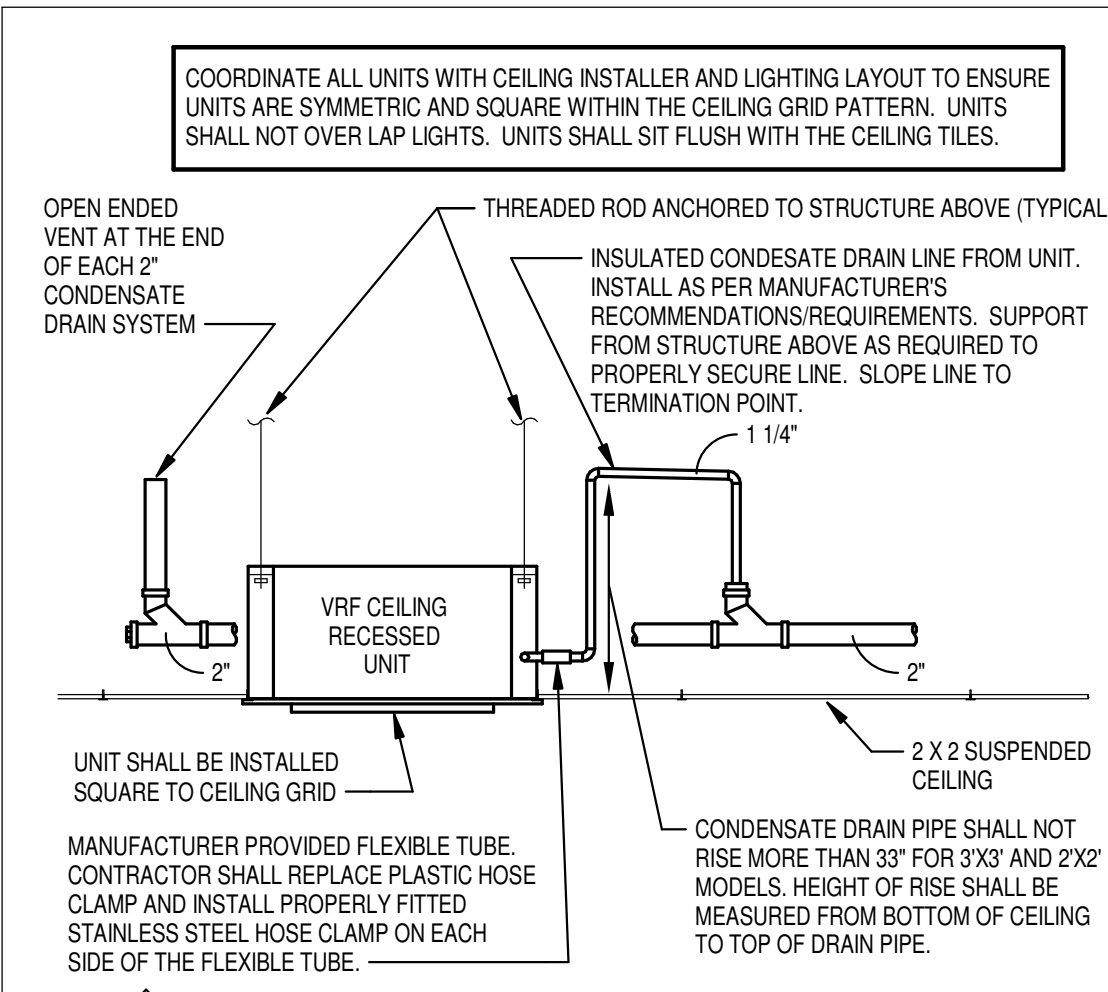
MECHANICAL NOTES

- CONDENSING UNIT CURB SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY ROOFING CONTRACTOR. ROOFING CONTRACTOR SHALL PROVIDE GALVANIZED HURRICANE STRAPS OVER ALL EQUIPMENT.
- ROOFTOP EXHAUST FAN MOUNTED ON ROOF CURB. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL HURRICANE STRAP STAINLESS STEEL AIRCRAFT CABLES OVER ALL EXHAUST HOODS.

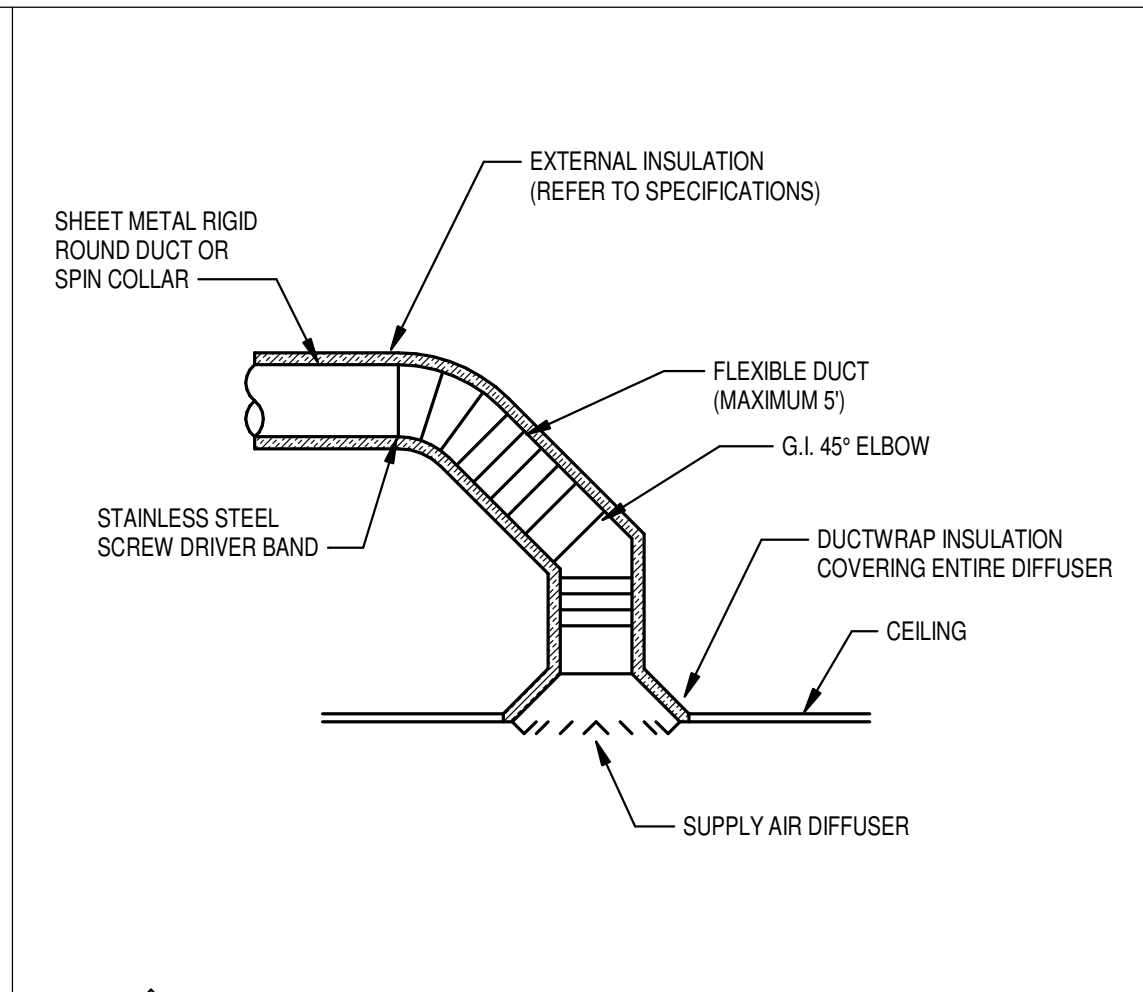


1 Mechanical Roof Plan
1/8" = 1'-0" Refer to Architectural Drawings for All Dimensions

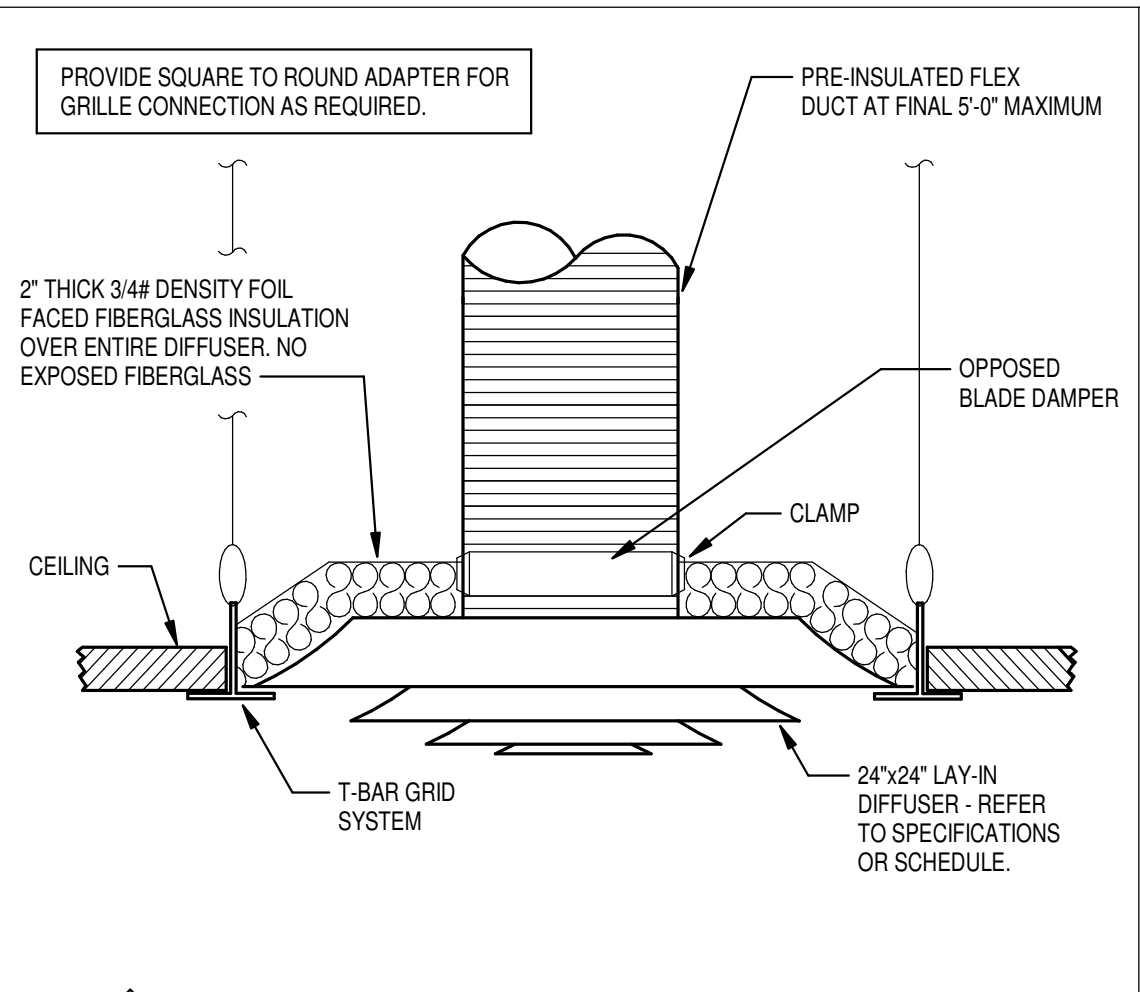




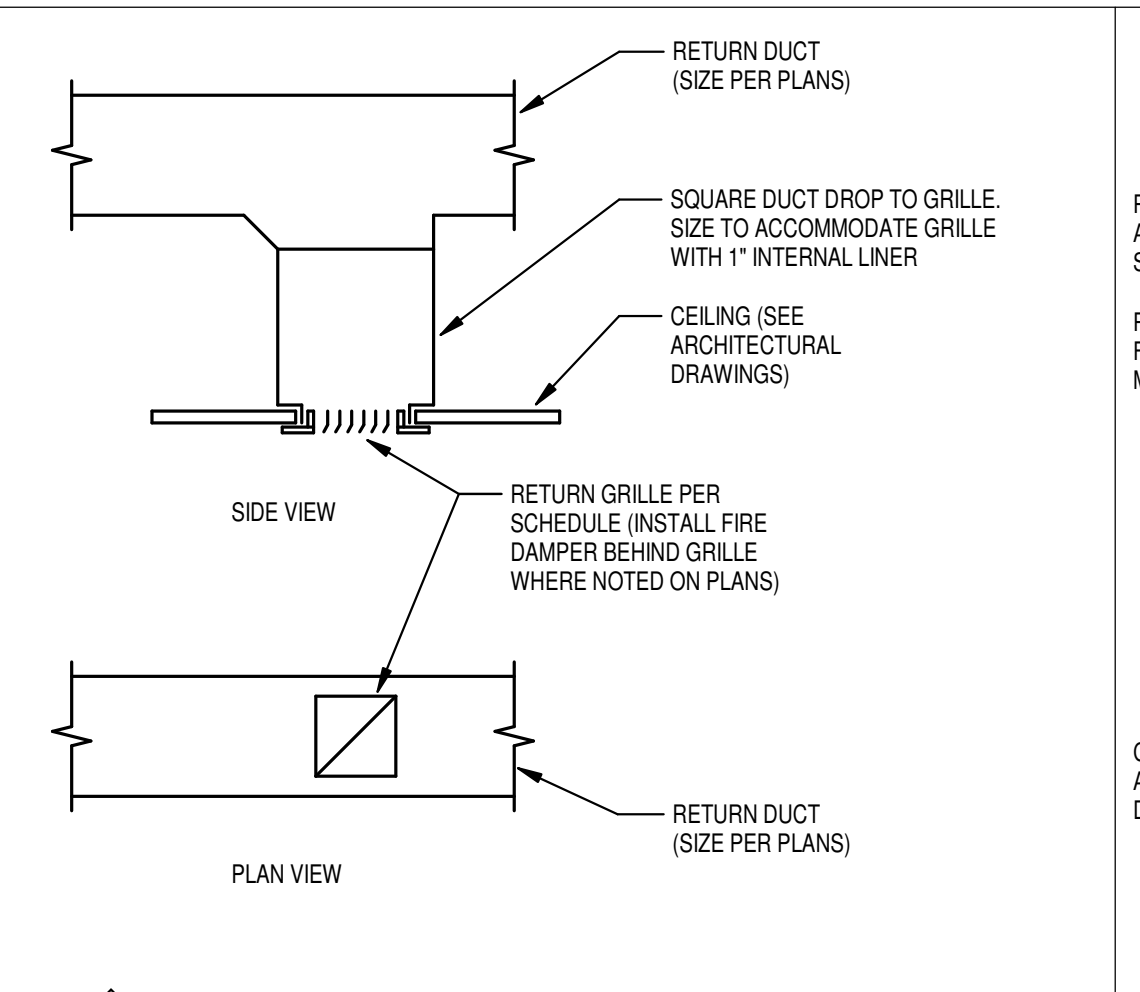
1 VRF - CEILING RECESSED UNIT
NO SCALE



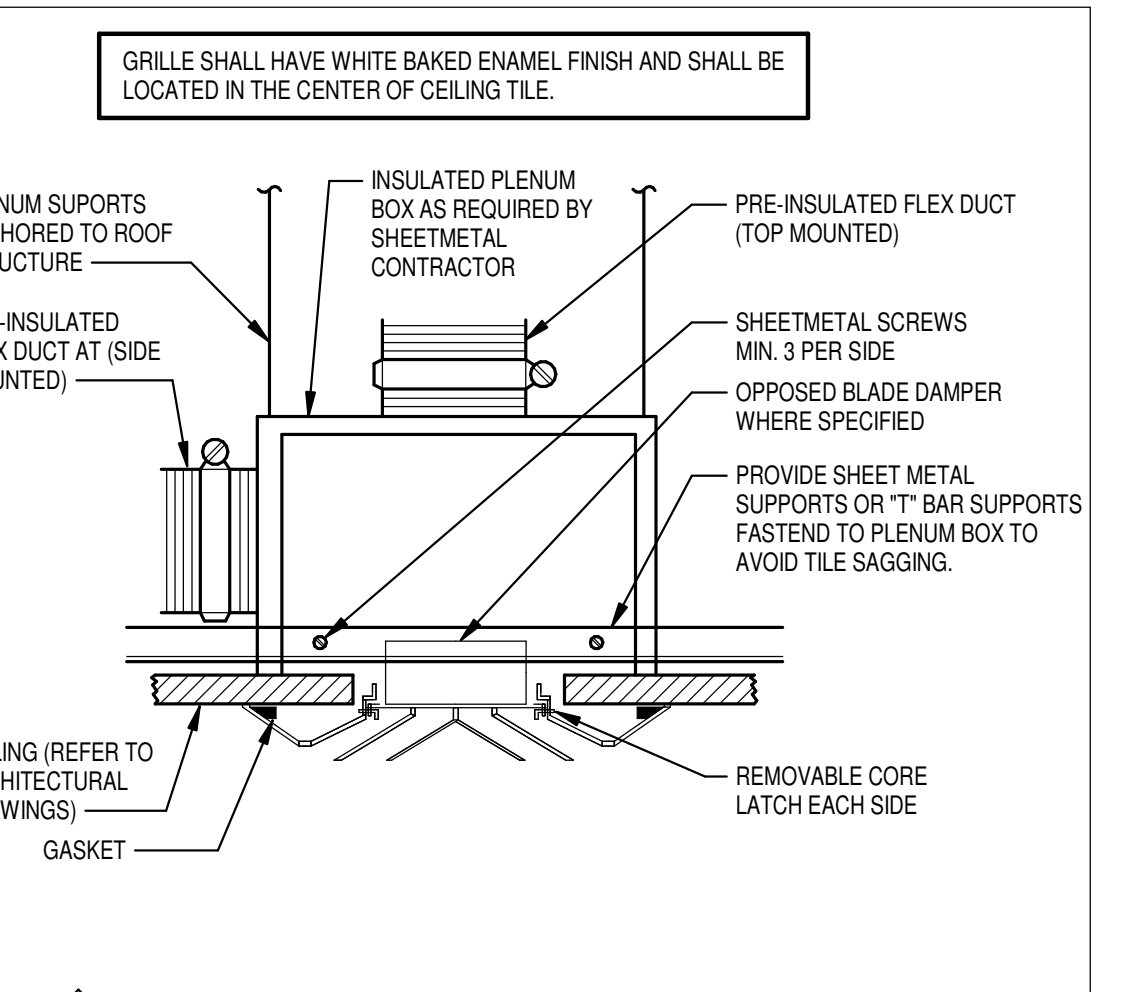
2 CEILING DIFFUSER DETAIL
NO SCALE



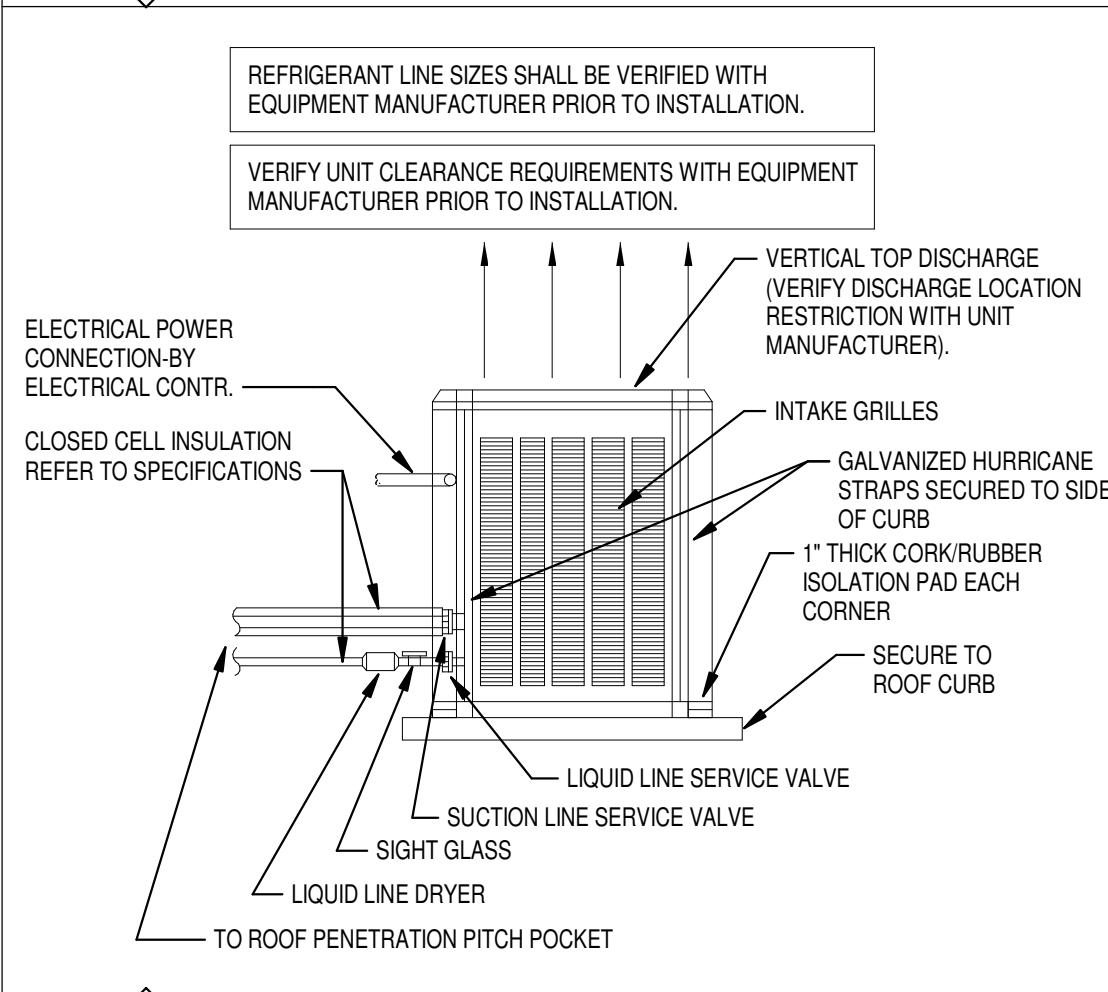
3 LAY-IN DIFFUSER DETAIL
NO SCALE



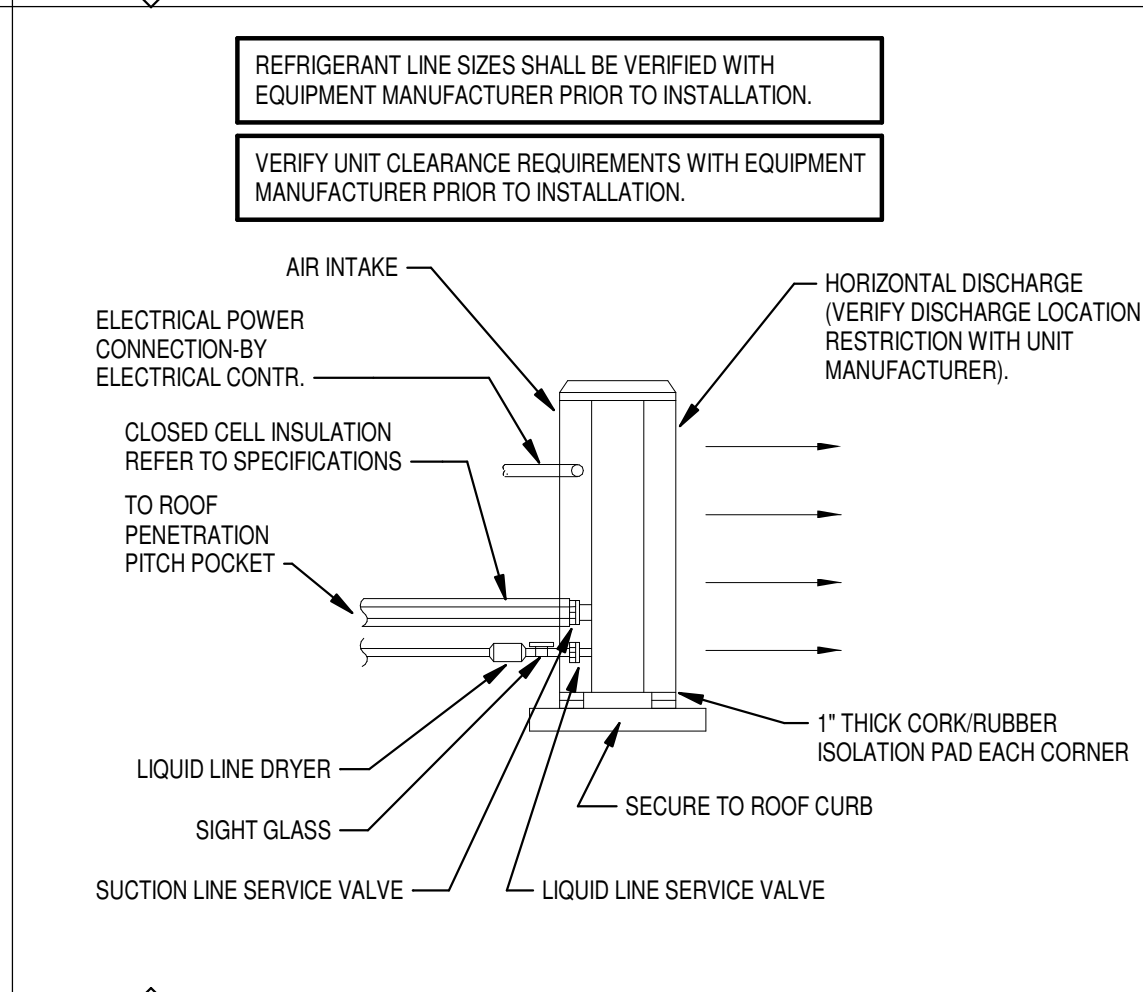
4 RETURN GRILLE DIAGRAM
NO SCALE



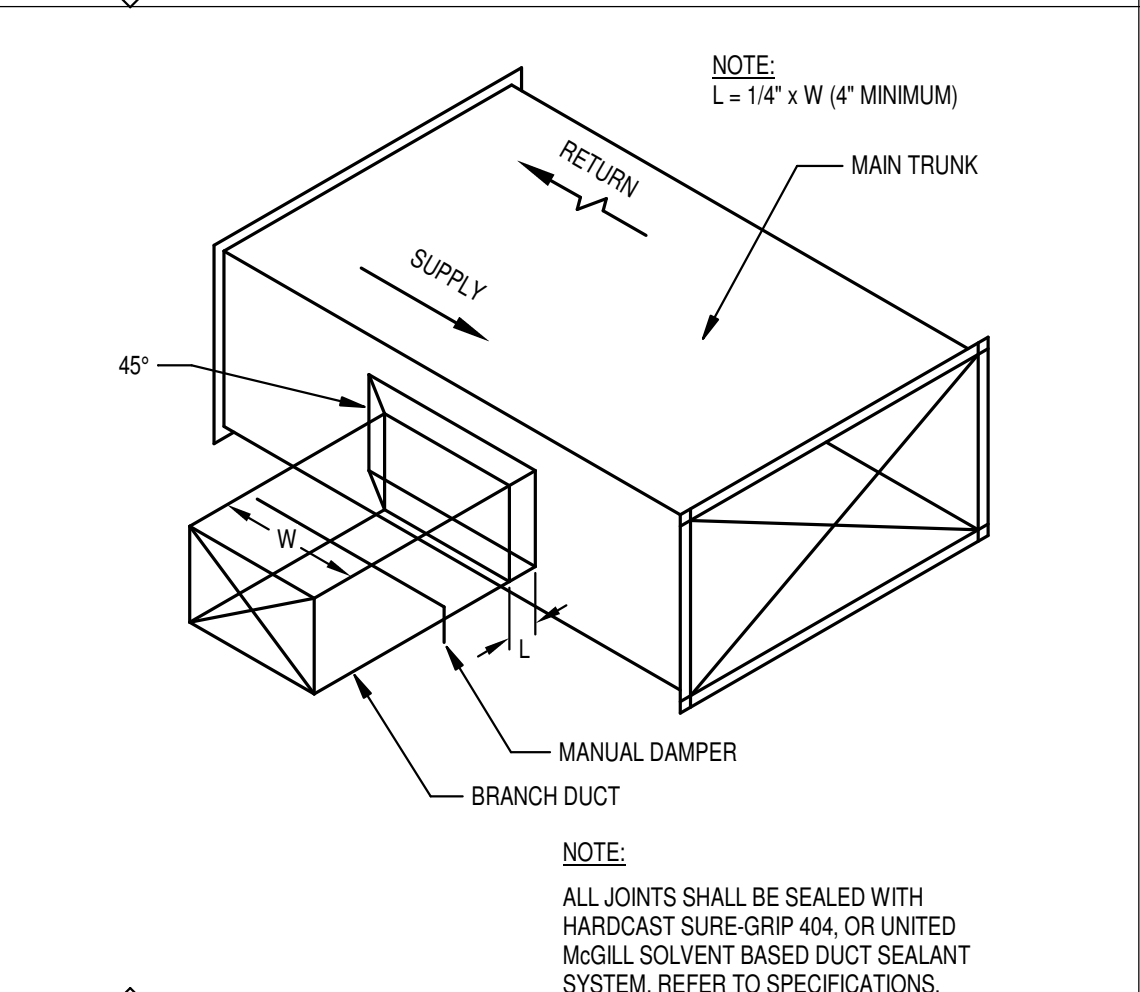
5 SUPPLY DIFFUSER SURFACE MOUNTED DETAIL
NO SCALE



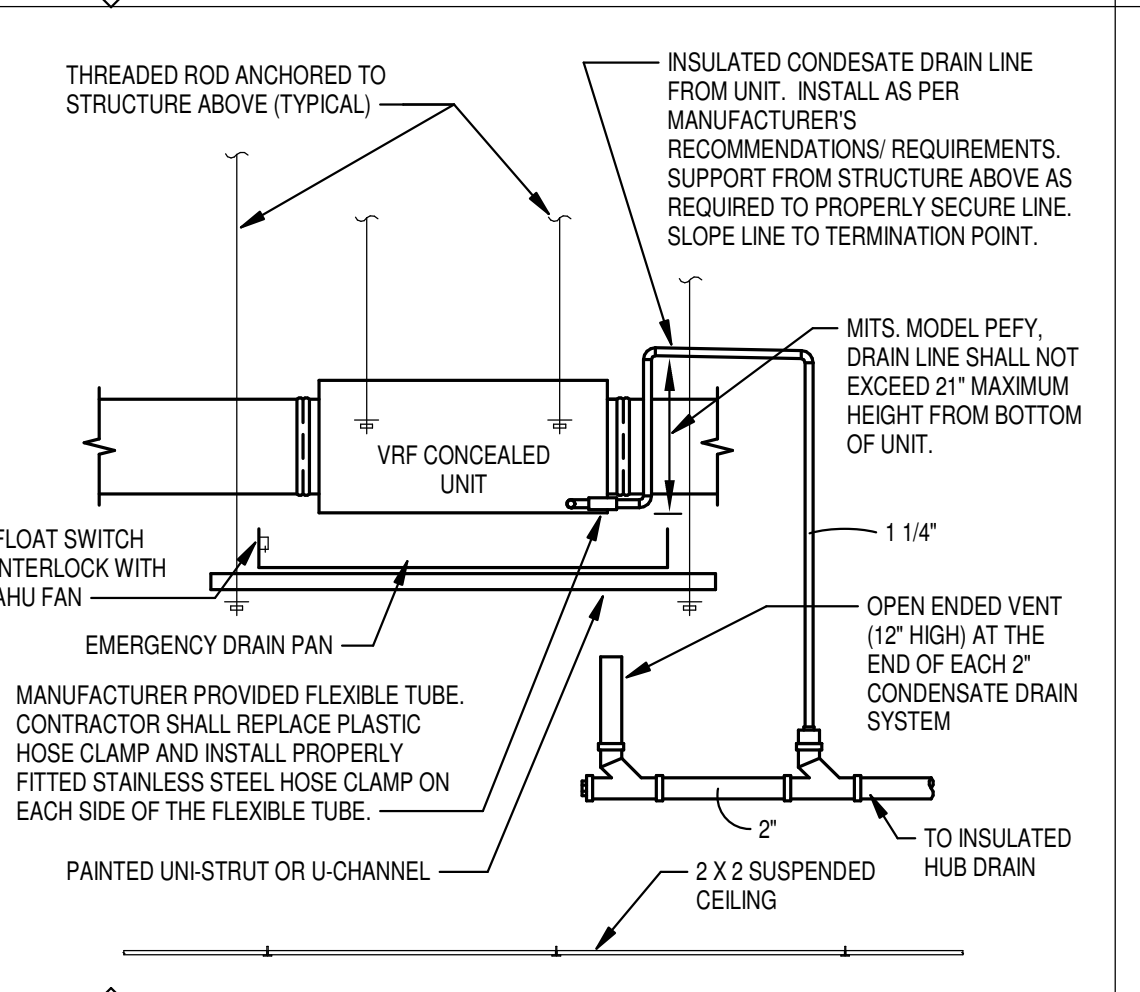
6 ROOF MOUNTED CONDENSING UNIT DETAIL
NO SCALE



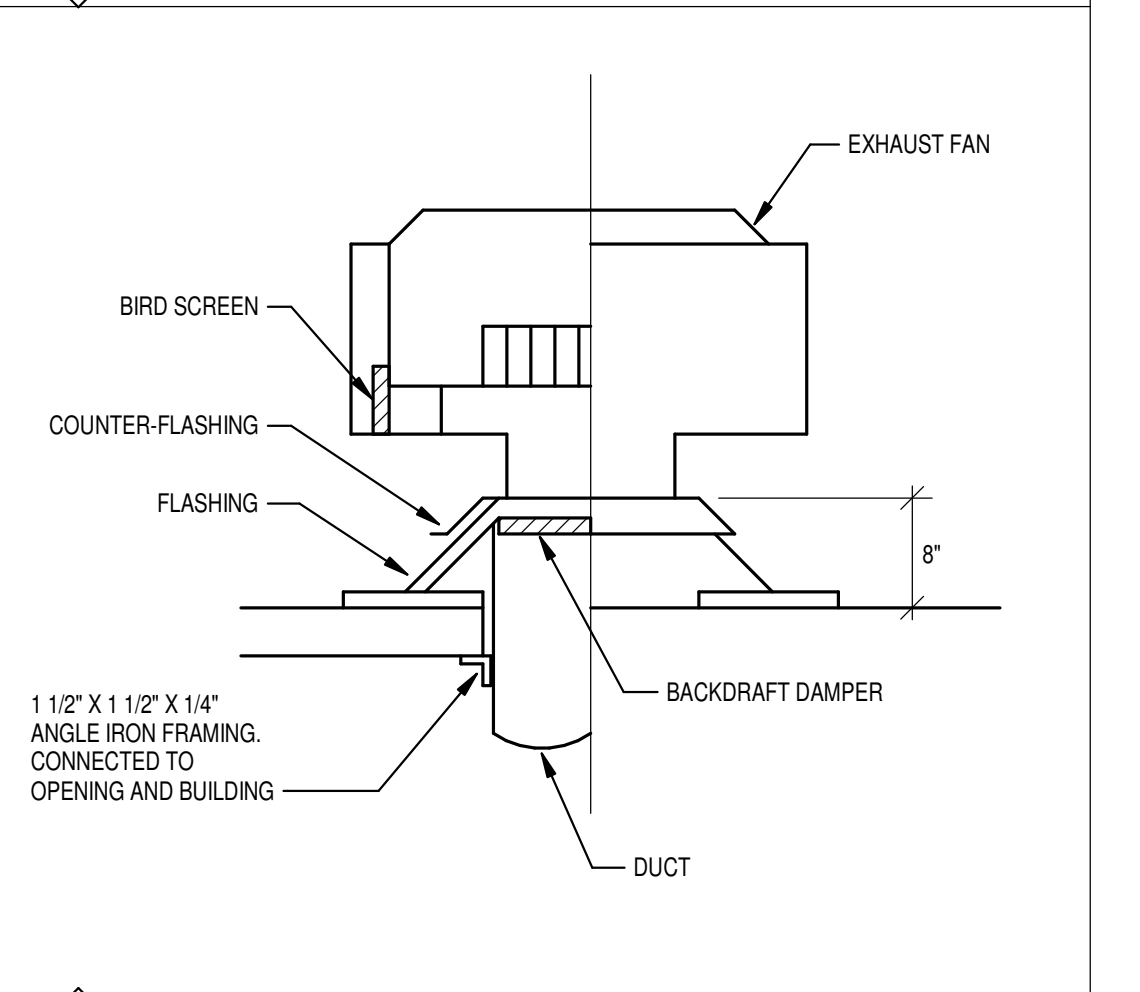
7 ROOF MOUNTED HOR. DISCHARGE CONDENSING UNIT DETAIL
NO SCALE



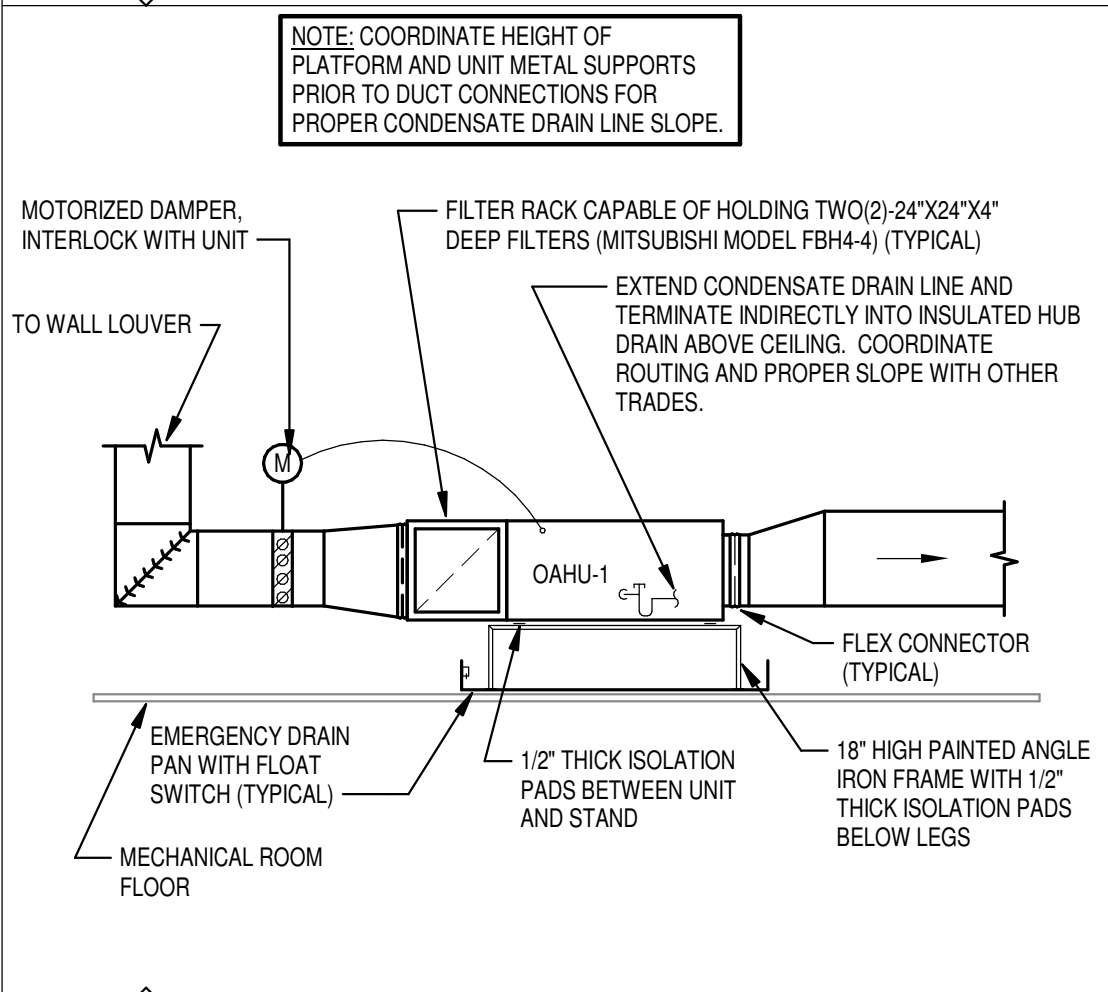
8 BRANCH DUCT (SUPPLY OR RETURN) DETAIL
NO SCALE



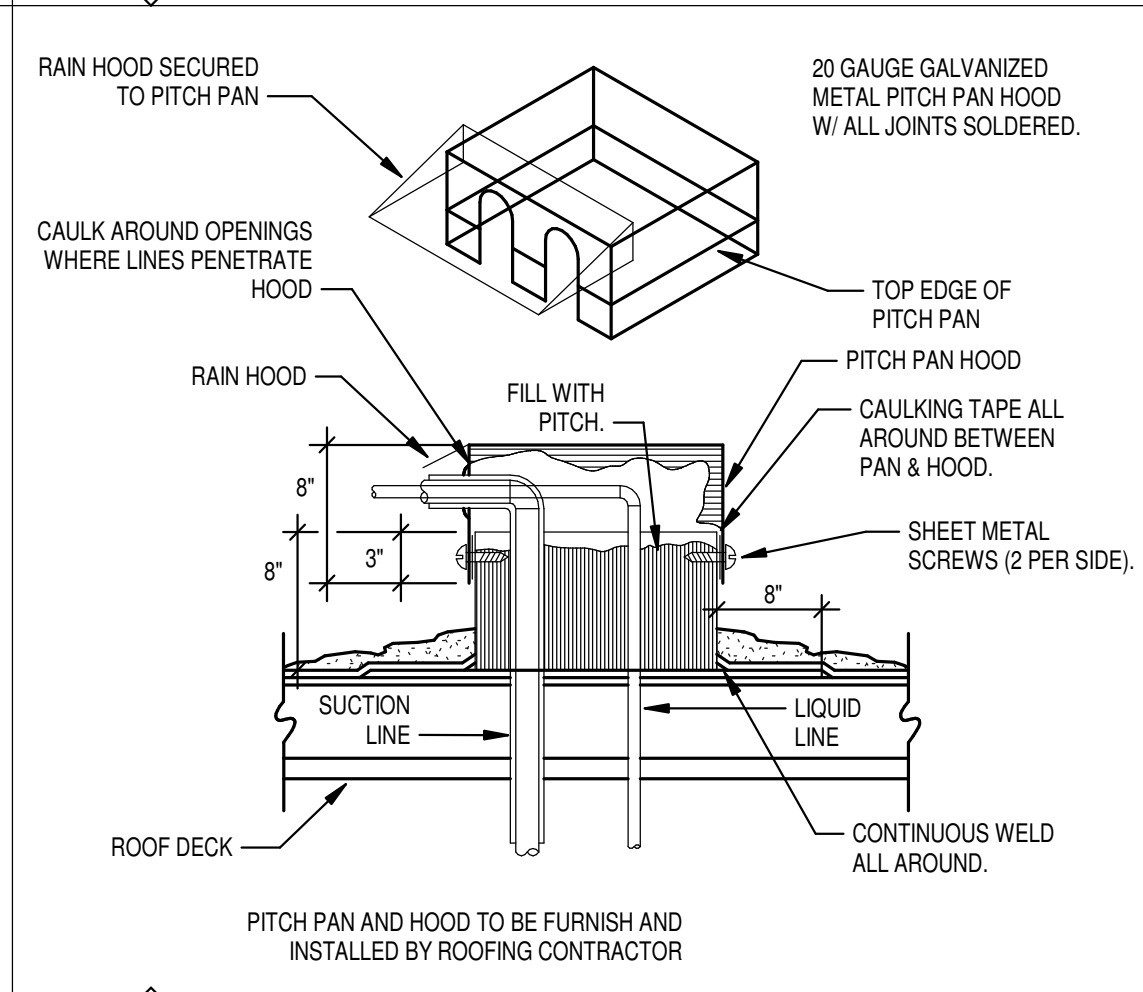
9 VRF - DUCTED CONCEALED UNIT
NO SCALE



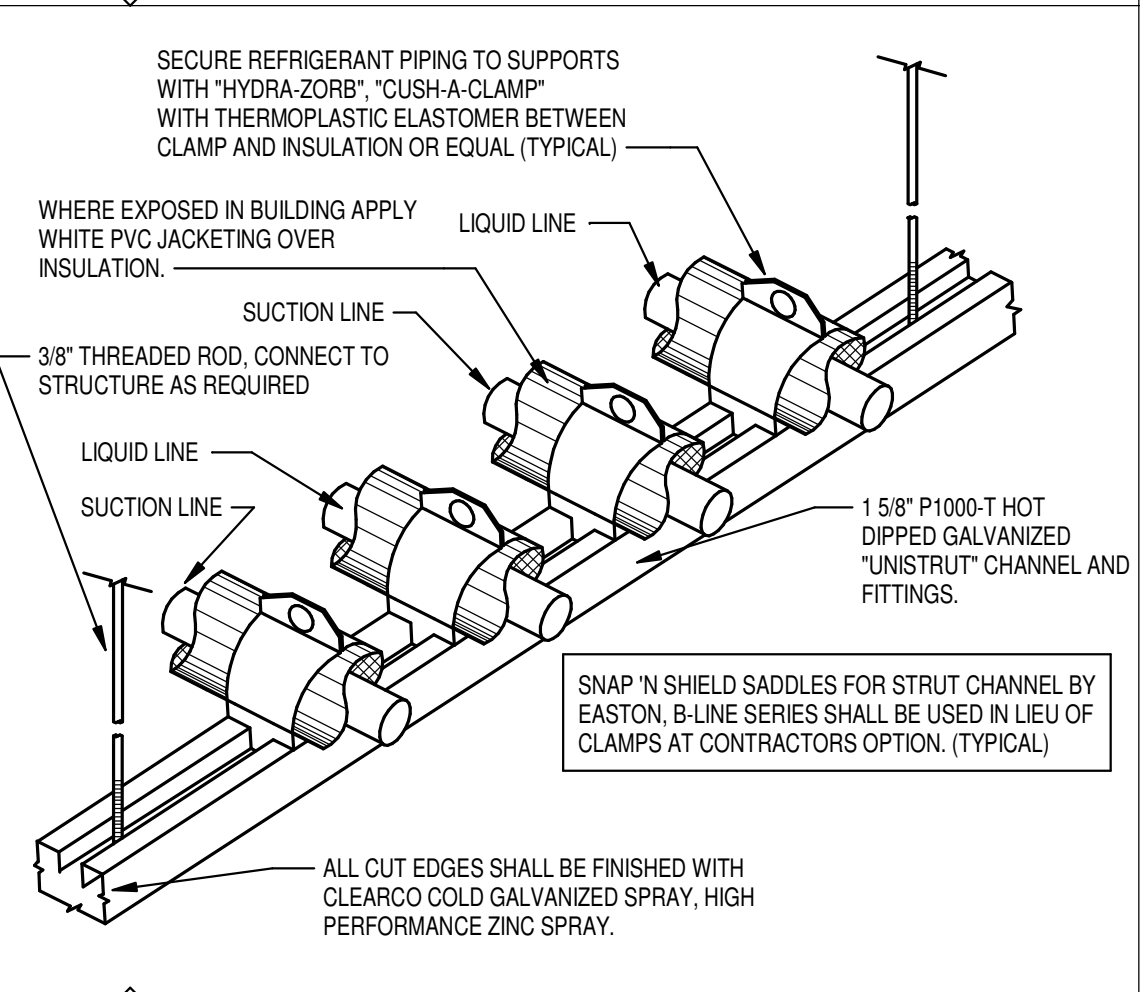
10 CURB MOUNTED EXHAUST FAN DETAIL
NO SCALE



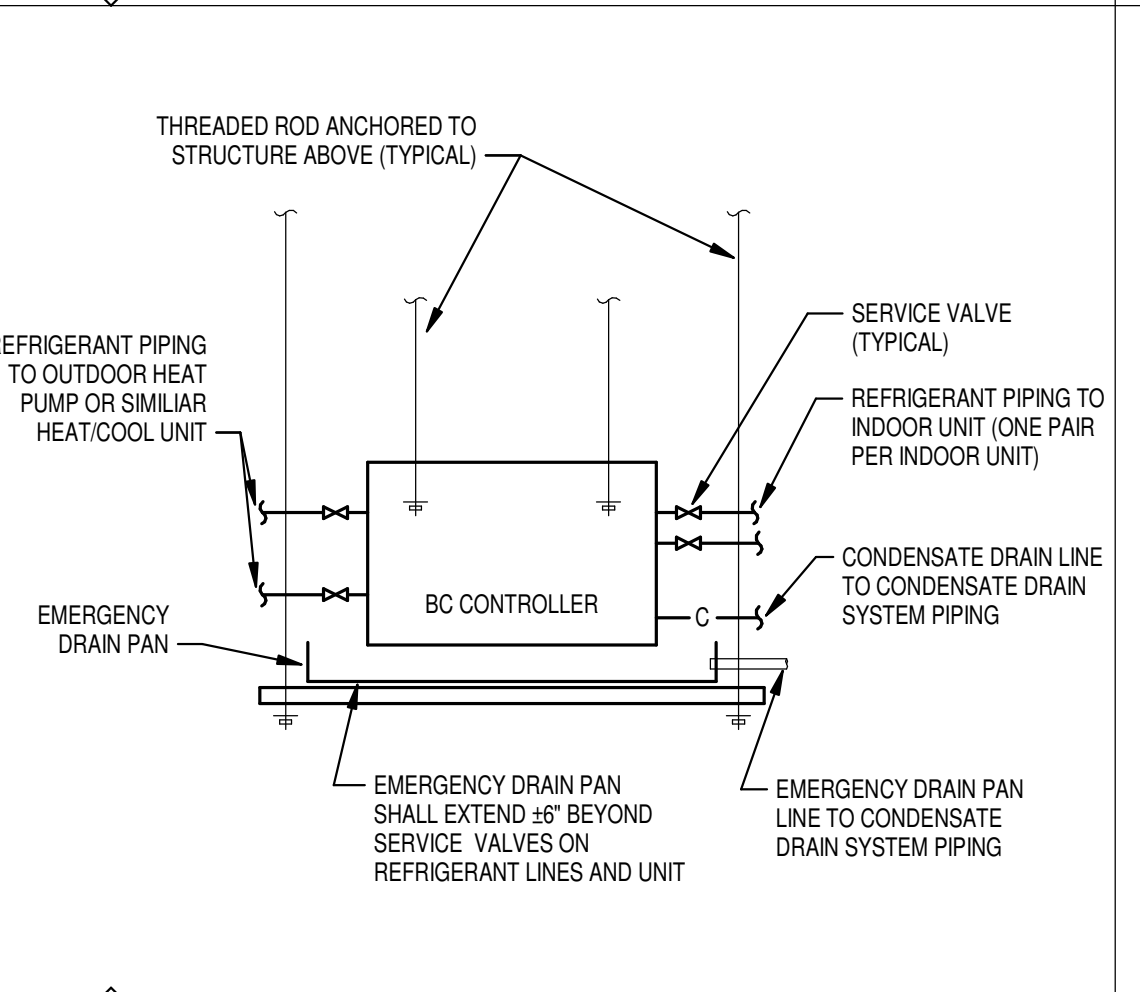
11 DEDICATED OAU (MITSUBISHI)
NO SCALE



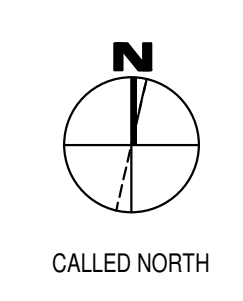
12 PITCH POCKET DETAIL (REFRIGERANT PIPING)
NO SCALE



13 VRF SYSTEM INDOOR REFRIGERATION PIPE SUPPORT
NO SCALE



14 VRF - BC CONTROLLER DETAIL
NO SCALE



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06/10/2022

SMITH BUILDING RENOVATION
SPINDLETOP CENTER

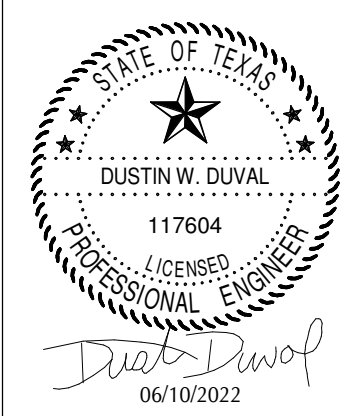
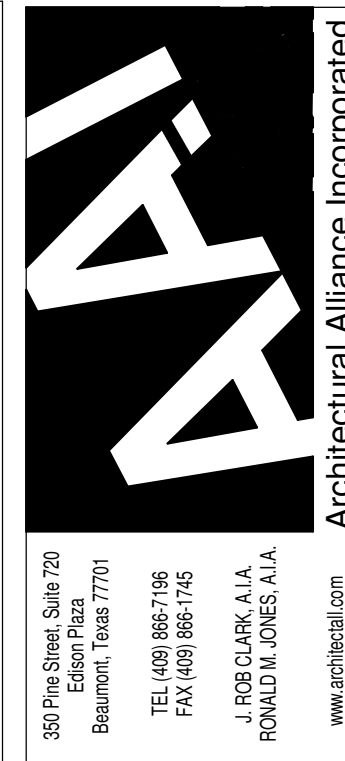
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DRAWINGS SHEET TITLE
MECHANICAL DETAILS

SHEET NUMBER
M300

21032
PROJECT NUMBER



SMITH BUILDING RENOVATION
 SPINDLETOP CENTER
 BEAUMONT, TX 77701
 655 S. 6TH STREET

VARIABLE REFRIGERANT FLOW (VRF) - 100% OUTSIDE AIR - OUTDOOR UNIT SCHEDULE

UNIT NO.	SERVICE	COOLING		HEATING		ELECTRICAL				REFRIGERANT TYPE	SOUND LEVEL* dB (A)	BASIS OF DESIGN			
		MIN. BTU/H OUTPUT	AMBIENT TEMP. (°F)	MIN. BTU/H OUTPUT	INDOOR TEMP. (°F)	OUTDOOR TEMP. (°F)	VOLTAGE	PHASE	MCA				MOCP	EER	
OACU-1	OAHU-1	120000	95	135000	70	47	43	208	3	43	70	12.1	R-410A	60	MITSUBISHI CITY-MULTI PURY-P120TNU-A
OACU-2	OAHU-2	120000	95	135000	70	47	43	208	3	43	70	12.1	R-410A	60	MITSUBISHI CITY-MULTI PURY-P120TNU-A

NOTES: 1. INSULATE SUCTION, LIQUID AND RECOVERY REFRIGERANT LINES.
 2. INSTALL BC CONTROLLER FOR EACH CONDENSING UNIT AS REQUIRED BY MANUFACTURER'S SPECIFICATIONS.
 3. ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS, AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THAT UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
 4. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ON MANUFACTURER SELECTED FOR THE PROJECT. INSTALLATION OF THE REFRIGERANT PIPING, CONTROL WIRING, POWER WIRING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 5. ANCHOR UNITS TO CONCRETE PAD. INSTALL ISOLATION PAD BETWEEN UNIT AND CONCRETE MOUNTING POINTS.

VARIABLE REFRIGERANT FLOW (VRF) - 100% OUTSIDE AIR - INDOOR UNIT SCHEDULE

UNIT NO.	SERVICE	BC CONTROLLER	FAN		COOLING		HEATING		ELECTRICAL			SOUND LEVEL dB (A)		BASIS OF DESIGN					
			CFM	E.S.P.	MIN. BTU/H OUTPUT	E.A.T. (°F)	MIN. BTU/H OUTPUT	E.A.T. (°F)	VOLTAGE	PHASE	F.L.A.	M.C.A.	M.O.C.P.		LOW	HIGH			
OAHU-1	PLAN EAST WING	OABC-1	1200	0.8	112000	95	80	61400	20	67	24200	208	1	3.19	3.99	15	36	41	MITSUBISHI CITY MULTI PEFY-AF1200CFMR
OAHU-2	PLAN WEST WING	OABC-2	1200	0.8	112000	95	80	61400	20	67	24200	208	1	3.19	3.99	15	36	41	MITSUBISHI CITY MULTI PEFY-AF1200CFMR

NOTES: 1. ALL UNITS SHALL BE COMPLETE WITH STOP VALVE WITH SERVICE PORT ON LIQUID, GAS, AND RECOVERY LINES. VALVES SHALL BE LOCATED SUCH THE UNIT CAN BE REMOVED AND REPLACED WITHOUT SHUTTING DOWN THE ENTIRE SYSTEM.
 2. UNIT SHALL BE PROVIDED WITH INTEGRAL CONDENSATE PUMP.
 3. UNITS LAT SHALL BE NEUTRAL (+72°F ADJUSTABLE)

DUCTLESS DX MINI-SPLIT - OUTDOOR UNIT SCHEDULE

UNIT NO.	SERVICE	MIN. BTU/H OUTPUT	AMB. TEMP. (°F)	VOLTAGE	PHASE	MCA	S.E.E.R.	BASIS OF DESIGN
MSCU-1	ELEC/PHONE ROOM	12000	95	208	1	13.0	20	MITSUBISHI PUZ-A12NKA7
MSCU-2	DATA	12000	95	208	1	13.0	20	MITSUBISHI PUZ-A12NKA7

NOTES: 1. OUTDOOR UNIT PROVIDES POWER TO THE INDOOR UNIT. INSTALL UNIT AS PER MANUFACTURER'S REQUIREMENTS.
 2. INSTALL ON ISOLATION PADS BETWEEN UNIT AND CONCRETE AT MOUNTING POINTS AND ANCHOR TO CONCRETE PAD.
 3. PROVIDE A WALL MOUNTED OUTLET FOR EACH REFRIGERANT PIPING SET THROUGH THE EXTERIOR WALL. AIREX MANUFACTURING TITAN MODEL TGS, WESTATLANTIC TECH CORP. OR EQUAL.

DUCTLESS DX MINI-SPLIT - INDOOR UNIT SCHEDULE

UNIT NO.	SERVICE	FAN		COOLING		HEATING		ELECTRICAL			BASIS OF DESIGN		
		HIGH	LOW	MIN. BTU/H OUTPUT	AMB. TEMP. (°F)	MIN. BTU/H OUTPUT	AMB. TEMP. (°F)	VOLTAGE	PHASE	F.L.A.		M.C.A.	M.O.C.P.
MSAHU-1	ELEC/PHONE ROOM	425	320	1.00	208	1	12000	95	80	67	14000	47	MITSUBISHI PKA-A12HA7
MSAHU-2	DATA	425	320	1.00	208	1	12000	95	80	67	14000	47	MITSUBISHI PKA-A12HA7

NOTES: 1. UNIT SHALL BE PROVIDED WITH HARD WIRED REMOTE CONTROLLERS. CONTROLLERS SHALL BE ABLE OF SENSING TEMPERATURE.
 2. WALL MOUNTED UNITS SHALL BE MOUNTED WITH TOP OF UNIT ±1'-0" BELOW CEILING.
 3. REFRIGERANT SHALL BE R-410A.
 4. UNIT SHALL BE PROVIDED WITH AIR OUTLET SHUTTER PLATES WHERE AIR FLOW IS DUCTED FROM THE UNIT OR WHERE DIRECTION FLOW ARROWS ARE NOT SHOWN.
 5. CEILING RECESSED UNITS SHALL BE PROVIDED WITH INTEGRAL CONDENSATE PUMP.
 6. CEILING RECESSED AND WALL MOUNTED UNITS SHALL BE PROVIDED WITH LIFE LONG FILTER WITHIN THE UNIT.
 7. PROVIDE ONE (1) SPARE LIFE LONG FILTER TO OWNER FOR EACH UNIT THAT HAS A LIFE LONG FILTER.
 8. CONTRACTOR SHALL REMOVE THE PLASTIC CONDENSATE HOSE CLAMP (AT UNIT CONNECTION) ON EACH INDOOR UNIT. FURNISH AND INSTALL A STAINLESS STEEL HOSE CLAMP ON THE CONDENSATE DRAIN HOSE (AT UNIT CONNECTION) ON EACH INDOOR UNIT. THE STAINLESS STEEL HOSE CLAMP SHALL BE APPROPRIATELY SIZED TO CREATE A WATER TIGHT SEAL.
 9. CASSETTE UNITS SHALL CYCLE FAN ON/OFF WITH CALL FOR COOLING/HEATING. ADJUST DIP-SWITCH ON EACH UNIT AS REQUIRED TO ALLOW THE FAN TO BE OFF WHEN NO CALL FOR COOLING/HEATING.
 10. INDOOR UNIT RECEIVES POWER FROM THE OUTDOOR UNIT. INSTALL UNIT AS PER MANUFACTURER'S REQUIREMENTS.

FAN SCHEDULE

UNIT NO.	SERVICE	MIN. CFM	EXT SP	RPM	SONES	FAN H.P.	TYPE	VOLTAGE	PHASE	CONTROL	MANUFACTURER	MODEL
EF-1	PLAN WEST WING	700	0.53	1258	5.9	82 W	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	115	1	INTEGRAL SWITCH	GREENHECK	G-100-VG
EF-2	PLAN SOUTH WING	250	0.49	1186	5.7	45 W	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	115	1	INTEGRAL SWITCH	GREENHECK	G-095-G
EF-3	PLAN EAST WING	450	0.47	1100	3.8	52 W	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	115	1	INTEGRAL SWITCH	GREENHECK	G-100-B

NOTES: 1. PROVIDE FAN WITH INTEGRAL BACK-DRAFT DAMPER, MANUFACTURER PROVIDED INSULATED ROOF CURB, SOLID STATE SPEED CONTROLLER FOR BALANCING.

DIFFUSER/GRILLE SCHEDULE

SYMBOL	SIZE	SERVICE	LOCATION	FINISH	O.B.D.	BASIS OF DESIGN
A	6" X 6"	SUPPLY	CEILING	WHITE	O.B.D.	TDC-AA-6, PRICE AMD-6
B	9" X 9"	SUPPLY	CEILING	WHITE	O.B.D.	TDC-AA-6, PRICE AMD-6
C	12" X 12"	SUPPLY	CEILING	WHITE	O.B.D.	TDC-AA-6, PRICE AMD-6
E	12" X 12"	EXHAUST	CEILING	WHITE	O.B.D.	TITUS 355-FL-1
R	20" X 20"	RETURN	CEILING	WHITE	- - -	TITUS 355-FLF1-3

NOTES: 1. COORDINATE FINAL FINISHES AND COLOR WITH ARCHITECT.
 2. REFER TO PLANS FOR DIRECTION OF AIR FLOW FOR GRILLES. IF DIRECTION IS NOT INDICATED, AIR FLOW IS IN FOUR DIRECTION (4-WAY GRILLE).
 3. COORDINATE FINAL LOCATIONS WITH REFLECTIVE CEILING PLANS. REFER TO ARCHITECTURAL DRAWINGS.
 4. ALL DIFFUSERS SHALL HAVE ALUMINUM CONSTRUCTION.

LOUVER SCHEDULE

SYMBOL	QTY	SERVICE	BLADE ORIENTATION	BPWP (FPM)	SIZE (W"XH"XD")	DESIGN FLOW (CFM)	FREE AREA (SQ FT)	AIR VEL. (FPM)	AIR P.D. (IN. WC)	AMCA 540/550	SCREEN (BIRD/INSECT)	BASIS OF DESIGN
L-1	2	OUTSIDE AIR INTAKE	VERTICAL	1250	30"x30"X6"	1200	1.89	635	0.05	540/550	BIRD	RUSKIN EME6325D

NOTES: 1. LOUVERS SHALL HAVE 70% KYNAR FINISH, COLOR TO BE SELECTED BY ARCHITECT.
 2. LOUVERS AND LOUVER ACCESSORIES TO BE ALUMINUM.
 3. LOUVERS TO MEET AMCA 540/550 RATINGS
 4. LOUVERS WITHIN METAL PANELS TO BE FULLY FLANGED (NO EXTENDED SILL), ALL OTHER MOUNTING SURFACES TO HAVE CHANNEL FRAME WITH EXTENDED SILLS. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT BUILDING MATERIALS.

ELECTRIC UNIT HEATER SCHEDULE

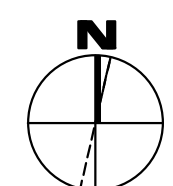
UNIT NO.	SERVICE	MIN BTU/H OUTPUT	KW	ELECTRICAL SERVICE	NO. STAGES	MOUNTING HEIGHT	BASIS OF DESIGN
EUH-1	SPRINKLER RISER	10239	3.0	208-1-60	1	1'-6"	RAYWALL AFA240D

NOTES: 1. PROVIDE UNITS WITH HEAVY DUTY 18 GAUGE STEEL GRILLE.
 2. UNITS EUH-1 SHALL BE RECESSED IN WALL.
 3. UNITS SHALL BE PROVIDED WITH INTEGRAL THERMOSTAT.

KITCHEN HOOD W/ FIRE SUPPRESSION SCHEDULE

HOOD NO.	SERVICE	ELECTRICAL SERVICE	DIM. (EXH. CAPTURE AREA)		MIN CFM	FLA	BASIS OF DESIGN
			LENGTH	WIDTH			
KH-1	BREAK ROOM	120-1-60	30.0'	19.5"	279	1.38	DENLAR D1030-R-NFPA

NOTES: 1. HOOD SHALL BE WALL MOUNTED AT 24" TO 30" ABOVE THE RANGE.
 2. HOOD SHALL HAVE FACTORY INSTALLED FIRE SUPPRESSION SYSTEM, HAVE 212 DEGREE FUSIBLE LINK WHICH WILL ACTIVATE THE MECHANICAL FIRE SUPPRESSION SYSTEM. HAVE WET CHEMICAL EXTINGUISHING AGENT: LOW PH AMEREX 660 (PRESSURIZED POTASSIUM CITRATE/POTASSIUM ACETATE MIX)
 3. PROVIDE HOOD WITH MANUAL PULL STATION, WITH HANDICAP ACCESSIBLE CONTROL BOX, WITH A POWER DISCONNECT DEVICE FOR ELECTRIC APPLIANCES THAT WILL ACTIVATE AT SUPPRESSION SYSTEM DISCHARGE AND SHALL AUTOMATICALLY DISCONNECT RANGE ELEMENT. UNIT SHALL HAVE MULTIPLE ALARM CONTACTS PRE-INSTALLED (LOCAL, REMOTE AND TROUBLE ALARMS) AND AN AUDIBLE BUZZER
 4. PROVIDE HOOD WITH LIGHT, REMOVABLE STAINLESS STEEL (S.S) GREASE BAFFLE AND S.S DRIP CUP.
 5. PROVIDE HOOD WITH CENTRIFUGAL FAN AND FAN SPEED CONTROLLER FROM HOOD MANUFACTURER.
 6. HOOD SHALL HAVE STAINLESS STEEL CONSTRUCTION.
 7. PROVIDE WITH WALL CAP FOR REAR DISCHARGE. COLOR TO BE SELECTED BY ARCHITECT.



CALLED NORTH

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CONSULTING PROJECT No.: 21198.00

ISSUED FOR SCHEMATIC DESIGN
 DATE: _____

DESIGN DEVELOPMENT
 DATE: _____

BIDS & CONSTRUCTION
 DATE: 6/13/22

REVISION: _____
 DATE: _____

REVISION: _____
 DATE: _____

REVISION: _____
 DATE: _____

DRAWINGS SHEET TITLE
MECHANICAL SCHEDULES

SHEET NUMBER
M401
 21032
 PROJECT NUMBER