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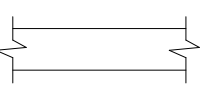
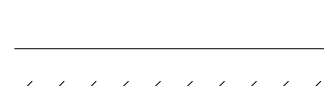
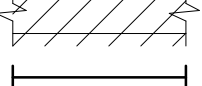
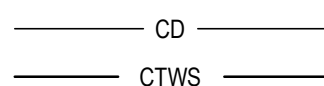
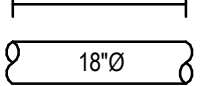
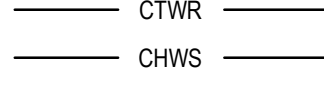
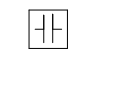
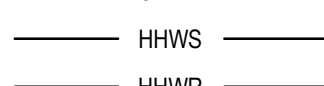
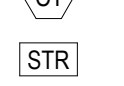
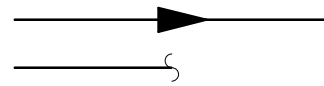
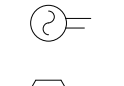
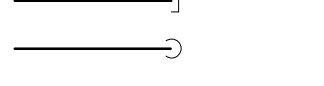
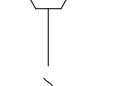
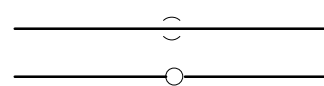
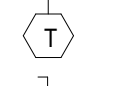
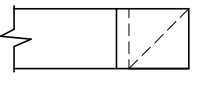
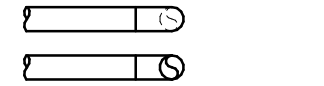
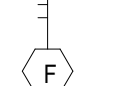
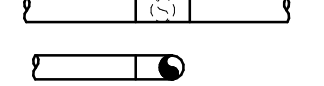
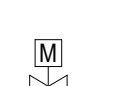
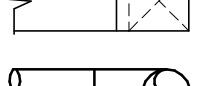
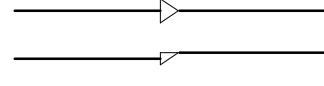
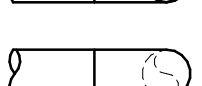
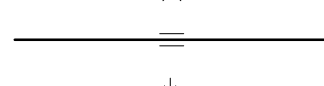
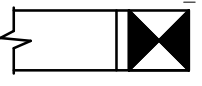
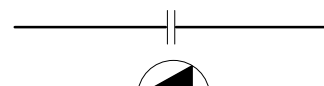
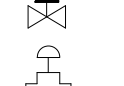
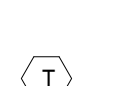
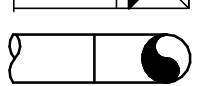
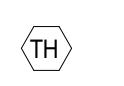
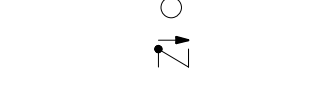
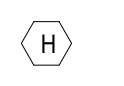
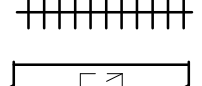
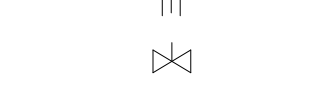
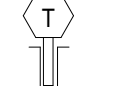
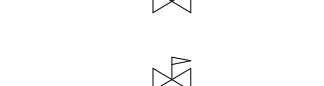
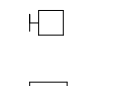
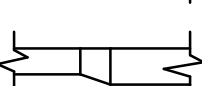
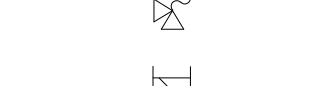
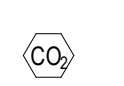
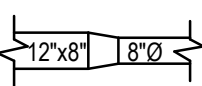
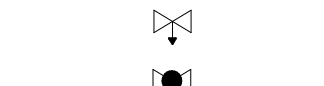
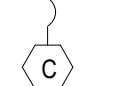
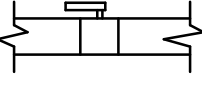
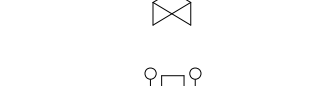
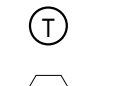
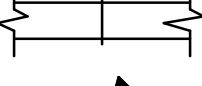
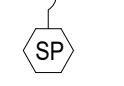
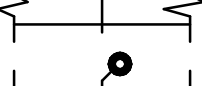
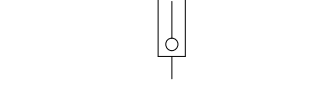
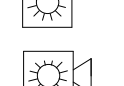
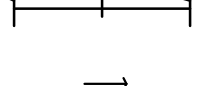
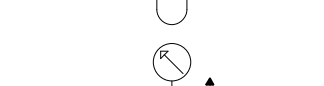
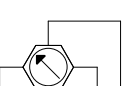
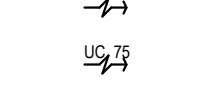
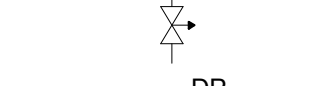
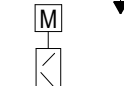
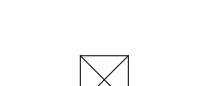
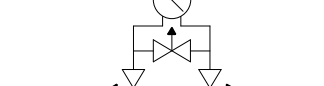
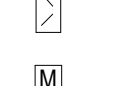
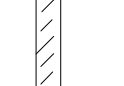
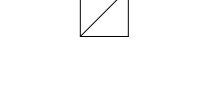
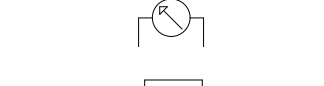
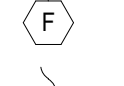
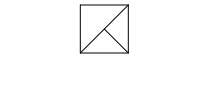
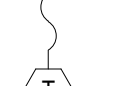
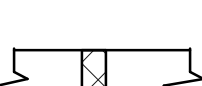
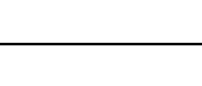
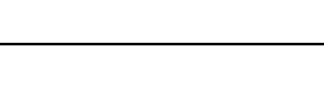
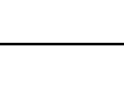
A

B

C

D

E

MECHANICAL ABBREVIATIONS				AIR DISTRIBUTION LEGEND			PIPING LEGEND			CONTROLS LEGEND		MECHANICAL - GENERAL NOTES													
ABBR	DESCRIPTION	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION	SYMBOL	DESCRIPTION														
A	COMPRESSED AIR	MAU	MAKE-UP AIR UNIT			EXISTING DUCT			THIN LINEWORK INDICATES EXISTING PIPING OR EQUIPMENT		DIGITAL INPUT OR OUTPUT	1.	ALL WORK SHALL BE IN ACCORDANCE WITH THE 2021 ALASKA - MECHANICAL CODE AND THEIR REFERENCED STANDARDS												
A/C	AIR CONDITIONER	MAX	MAXIMUM			DUCT TO BE DEMOLISHED			HATCHING INDICATES PIPING OR EQUIPMENT TO BE REMOVED		ANALOG INPUT OR OUTPUT	2.	CONFLICTS: THE CONTRACTOR SHALL UNDERSTAND AND ACCEPT THE FACT THAT CONFLICTS MAY EXIST OR ARISE WITHIN THE CONTRACT DOCUMENTS. IF OR WHEN SUCH CONFLICTS ARE DISCOVERED, THE CHOICE HAVING THE HIGHER MONETARY VALUE SHALL BE REGARDED AS THE ACCEPTED PRACTICE. METHOD, SYSTEM OR EQUIPMENT AND SHALL BE PROVIDED.												
ACQTPW	AIR COMPRESSOR COOLING TOWER WATER PUMP	MCA	MINIMUM CIRCUIT AMPACITY			RECTANGULAR DUCT SIZE IN INCHES FIRST SIZE LISTED IS SIDE SHOWN		CD	CONDENSATE DRAIN - INDIRECT		COMMUNICATIONS INTERFACE	3.	VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.												
AD	ACCESS DOOR	MECH	MECHANICAL			ROUND DUCT SIZE IN INCHES		CTWS	COOLING TOWER WATER SUPPLY		DRY CONTACT	4.	PROVIDE LABOR AND MATERIALS TO PROVIDE A COMPLETE AND OPERATIONAL HVAC SYSTEM AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. COORDINATE WORK WITH ALL OTHER TRADES. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE UL LISTED WHERE APPLICABLE.												
AF	AIR/OIL	MEZZ	MEZZANINE			DUCT OFFSET (DOWN) IN DIRECTION OF ARROW (NOT TYPICALLY SHOWN)		CTWR	COOLING TOWER WATER RETURN		CURRENT SENSOR/TRANSMITTER	5.	PLANS AND DIAGRAMS ARE SCHEMATIC OVERVIEW DESCRIPTIONS OF THE SYSTEMS AND SHOULD NOT BE SCALED. COORDINATE ALL PLUMBING, HVAC, ELECTRICAL AND FIRE PROTECTION WORK AT SITE SO AS NOT TO CONFLICT WITH OTHER WORK UNDER THE CONTRACT.												
AFG	ABOVE FINISHED FLOOR	MFS	MAXIMUM FUSE SIZE			DUCT OFFSET (UP) IN DIRECTION OF ARROW (NOT TYPICALLY SHOWN)		CHWS	CHILLED WATER SUPPLY		STARTER	6.	COORDINATE ALL MECHANICAL WORK & EQUIPMENT WITH STRUCTURAL MEMBERS, ELECTRICAL WORK, FIXTURES AND ALL OTHER TRADES.												
AHU	AIR HANDLING UNIT	MIN	MINIMUM			SUPPLY & AIR DUCT SECTION TURNED UP OR TOWARDS		CHWR	CHILLED WATER RETURN		DUCT SMOKE DETECTOR	7.	ALL MISCELLANEOUS IRON AND STEEL WORK REQUIRED TO PROPERLY INSTALL THE MECHANICAL WORK AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WORK INCLUDES ALL HANGERS, SUPPORTS, RACKS, BRACKETS AND ANY WELDING REQUIRED. ALL MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE GALVANIZED.												
ALT	ALTERNATE	MOCP	MAXIMUM OVER CURRENT PROTECTION			RETURN AIR DUCT SECTION TURNED DOWN OR AWAY		HHWS	HEATING HOT WATER SUPPLY		FLOW METER	8.	COORDINATE FINAL EQUIPMENT LOCATIONS WITH THE ACTUAL EQUIPMENT PROVIDED FOR THE ACTUAL SITE CONDITION. LOCATIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE.												
AP	ACCESS PANEL	MVD	MANUAL VOLUME DAMPER			DUCT SECTIONS UP THROUGH SLAB OR ROOF		HHWR	HEATING HOT WATER RETURN		AIR TEMPERATURE SENSOR	9.	SET AND ANCHOR ALL EXPOSED MECHANICAL EQUIPMENT.												
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS	NC	NORMALLY CLOSED			DUCT SECTIONS THROUGH SLAB OR ROOF			PIPE CONTINUATION		AIR FLOW MEASURING STATION	10.	FABRICATE ALL DUCTWORK IN ACCORDANCE WITH SMACNA STANDARDS.												
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	N/C	NOISE CRITERIA			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE END CAP			11.	DUCT PRESSURE CLASSIFICATION SHALL BE AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. IF NOT INDICATED, THEY SHALL BE AS FOLLOWS: SUPPLY DUCTS UPSTREAM OF VAV BOXES: 3" W.G. POSITIVE, SEAL CLASS A, LEAKAGE CLASS 6 SUPPLY DUCTS DOWNSTREAM OF VAV BOXES: 2" W.G. POSITIVE, SEAL CLASS A, LEAKAGE CLASS 24 RETURN DUCTS: 2" W.G. NEGATIVE, SEAL CLASS A, LEAKAGE CLASS 24 EX-HAUST DUCTS: 2" W.G. NEGATIVE, SEAL CLASS A, LEAKAGE CLASS 24 OUTSIDE AIR DUCTS: 1" W.G. NEGATIVE, SEAL CLASS A, LEAKAGE CLASS 24												
BAS	BUILDING AUTOMATION SYSTEM	NEC	NATIONAL ELECTRIC CODE			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING DOWN OR AWAY		2-WAY CONTROL VALVE WITH 24V ACTUATOR UNO	12.	DUCTWORK DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.												
BHP	BRAKE HORSEPOWER	NEPA	NATIONAL FIRE PROTECTION ASSOCIATION			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING UP OR TOWARD		3-WAY CONTROL VALVE WITH 24V ACTUATOR UNO	13.	INSTALL FLEXIBLE DUCTS IN ACCORDANCE WITH SMACNA STANDARDS. MAXIMUM ALLOWED FLEXIBLE DUCT LENGTH SHALL BE EIGHT (8) FEET.												
BOD	BOTTOM OF DUCT	NO	NORMALLY OPEN			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TEE TURNING DOWN OR AWAY		2-WAY BUTTERFLY VALVE WITH 24V ACTUATOR UNO	14.	DO NOT ROUTE ANY DUCTWORK OR HYDRONIC PIPING THROUGH ELECTRICAL, COMMUNICATION OR ELEVATOR EQUIPMENT ROOMS UNLESS SPECIFICALLY DEDICATED TO THAT ROOM.												
BTU	BRITISH THERMAL UNIT PER HOUR	NOM	NOMINALLY OPEN			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TEE TURNING UP OR TOWARD		SOLENOID VALVE (TWO-POSITION W/ ACTUATOR)	15.	DUCTWORK, DIFFUSERS, GRILLES AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM. COORDINATE LOCATION OF GRILLES, DIFFUSERS AND LOUVERS WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, PLUMBING, AND FIRE PROTECTION WORK.												
CAP	CAPACITY	NTS	NOT TO SCALE			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING DOWN OR AWAY		PRESSURE INDEPENDENT CONTROL VALVE	16.	DUCT RUNOUT SIZES TO DIFFUSERS, GRILLES, AND REGISTERS SHALL BE EQUAL TO NECK SIZE UNLESS OTHERWISE NOTED.												
CC	CENTER OF CENTER	OA	OUTSIDE AIR			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING UP OR TOWARD		SPACE TEMPERATURE SENSOR	17.	INSTALL ALL DUCT SMOKE DETECTORS FURNISHED UNDER DIVISION 28 SPECIFICATIONS. SEE FIRE ALARM PLANS.												
CEN	CENTRIFUGAL	OAL	OUTSIDE AIR LOUVER			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TEE TURNING DOWN OR AWAY		SPACE TEMPERATURE AND RELATIVE HUMIDITY SENSOR WITH LCD SCREEN AND INTERFACE	18.	PROVIDE FIRE/SMOKE DAMPERS AT ALL DUCT PENETRATIONS OF ALL FIRE/SMOKE RATED ASSEMBLIES TO MAINTAIN THE INTEGRITY OF THE ASSOCIATED FIRE/SMOKE ASSEMBLY. SEE ARCHITECTURAL PLANS FOR RATED ASSEMBLIES.												
CFM	CUBIC FEET PER MINUTE	OAT	OUTSIDE AIR TEMPERATURE			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TEE TURNING UP OR TOWARD		SPACE RELATIVE HUMIDITY SENSOR	19.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DIFFUSERS/GRILLES. COORDINATE WITH ALL OTHER TRADES FOR THEIR LAYOUTS.												
CH	CHILLER	OC	ON CENTER			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING DOWN OR AWAY		IMMERSION TEMPERATURE TRANSMITTER WITH THERMOWELL	20.	REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DETAILS OF EXTERIOR WALL LOUVERS, ROOF CURBS, AND EQUIPMENT RAILS.												
CHW	CHILLED WATER	ODP	OPEN DRIP PROOF			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING UP OR TOWARD		EMERGENCY PUSHBUTTON	21.	PROVIDE CONDENSATE DRAINS FOR ALL AIR COILS FROM WHICH CONDENSATION MAY OCCUR.												
CHWP	CHILLED WATER PUMP	OCFI	OWNER FURNISHED CONTRACTOR INSTALLED			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TEE TURNING DOWN OR AWAY		VIBRATION SWITCH	22.	PROVIDE FLEXIBLE CONNECTOR BETWEEN EACH DUCT AND THE FAN THAT IT IS CONNECTED TO.												
CHWSR	CHILLED WATER SUPPLY/RETURN CONNECTION	PCHWP	PRIMARY CHILLED WATER PUMP			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING DOWN OR AWAY		CARBON DIOXIDE SENSOR/TRANSMITTER	23.	PROVIDE 1/4" x 1/4" STAINLESS STEEL WIRE MESH AND INSECT SCREEN ON THE INSIDE FACE OF ALL LOUVERS UNLESS NOTED OTHERWISE ON DETAILS.												
CONN	CONNECTION	PCT	PERCENT			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING UP OR TOWARD		CARBON MONOXIDE SENSOR/TRANSMITTER	24.	WHETHER INDICATED ON THE DRAWINGS OR NOT, PROVIDE MANUAL VOLUME DAMPERS AT EACH DUCT BRANCH LEADING TO AN OUTLET/INLET OPENING. INSTALL THESE DAMPERS AS FAR AS POSSIBLE AWAY FROM THE OPENING. DO NOT INSTALL VOLUME DAMPERS IN DUCTWORK UPSTREAM OF VAV BOXES.												
CONT	CONTINUE	PD	PRESSURE DROP			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TEE TURNING DOWN OR AWAY		THERMOSTAT	25.	PROVIDE ALL CONTROL WIRING IN COMPLIANCE WITH DIVISION 26 SPECIFICATIONS. ALL CONTROL WIRING IN EXPOSED AREAS SHALL BE IN RIGID, METAL CONDUIT. CONTROL WIRING ABOVE CEILINGS MAY BE RUN EXPOSED UNLESS NOTED OTHERWISE AND EXPOSED WIRING ABOVE CEILING SHALL BE PLENUM RATED.												
COP	COEFFICIENT OF PERFORMANCE	PH	PHASE			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING DOWN OR AWAY		DIFFERENTIAL PRESSURE SENSOR/TRANSMITTER	26.	COORDINATE FINAL THERMOSTAT, TEMPERATURE SENSOR, AND HUMIDISTAT LOCATIONS WITH INTERIOR FINISH AND FURNITURE EQUIPMENT DRAWINGS PRIOR TO INSTALLATION. MOUNT SENSORS 48" AFF. TYPICAL FOR ALL SENSORS UNLESS NOTED OTHERWISE.												
CO2	CARBON DIOXIDE	POC	POINT OF CONNECTION			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TEE TURNING DOWN OR AWAY		VARIABLE FREQUENCY DRIVE	27.	FIRESTOP/SMOKESTOP ALL PIPE PENETRATIONS THROUGH FIRE/SMOKE RATED ASSEMBLIES TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY.												
CT	COOLING TOWER	PROP	PROPELLER			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING UP OR TOWARD		STATIC PRESSURE SENSOR/TRANSMITTER	28.	REGARDLESS OF HOW PIPING IS PRESENTED ON THE DRAWINGS, PROVIDE ECCENTRIC (FLAT ON TOP) REDUCERS IN CHILLED WATER PIPING.												
CTW	COOLING TOWER WATER	PRS	PRESSURE REDUCING STATION			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TEE TURNING DOWN OR AWAY		LIGHT	29.	PROVIDE A MANUAL CALIBRATED BALANCING VALVE, AUTOMATIC FLOW CONTROL VALVE OR OTHER FLOW REGULATING VALVE IN EVERY PIPING BRANCH SERVING A TERMINAL HEAT TRANSFER UNIT UNLESS NOTED OTHERWISE.												
CTWP	COOLING TOWER WATER PUMP	PRV	PRESSURE REDUCING VALVE			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING DOWN OR AWAY		HORN AND STROBE	30.	PROVIDE FLANGED/THREADED PIPING CONNECTIONS AND ISOLATION VALVES AT COILS TO ALLOW FOR COIL REMOVAL/REINSTALLATION.												
CTWSR	COOLING TOWER WATER SUPPLY/RETURN CONDENSING UNIT	PSIG	POUNDS PER SQUARE INCH GAUGE			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING UP OR TOWARD			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TEE TURNING DOWN OR AWAY			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING DOWN OR AWAY		OPOSED BLADE CONTROL DAMPER WITH 24V ACTUATOR UNO	33.	ALL NEW SYSTEMS SHALL BE COMMISSIONED AND EXISTING SYSTEMS SHALL BE RECOMMISSIONED. SEE SPECIFICATION SECTION 23 08 00.
DG	DOOR GRILLE	RAG	RETURN AIR GRILLE			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING UP OR TOWARD		PARALLEL BLADE CONTROL DAMPER WITH 24V ACTUATOR UNO														
DL	DOOR LOUVER	RAT	RETURN AIR REGISTER			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TEE TURNING DOWN OR AWAY		FREEZESTAT (ACROSS COIL FACE)														
DDC	DIRECT DIGITAL CONTROL	REF	REFRIGERANT			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING DOWN OR AWAY		AVERAGING TEMP SENSOR (ACROSS COIL FACE)														
DIA	DIAMETER	RH	RELATIVE HUMIDITY			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING UP OR TOWARD		FLOW SWITCH														
DIFF	DIFFERENTIAL	RHC	REHEAT COIL			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TEE TURNING DOWN OR AWAY		PRESSURE SWITCH														
DN	DOWN	RHP	ROOFTOP HEAT PUMP			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING DOWN OR AWAY		WATER METER														
DP	DIFFERENTIAL PRESSURE	RLA	RATED LOAD AMPS			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING UP OR TOWARD																
DR	DRYER	ROOM	ROOM			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TEE TURNING DOWN OR AWAY																
DWG	DRAWING	RPM	REVOLUTION PER MINUTE			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING DOWN OR AWAY																
DX	DIRECT EXPANSION	RTU	ROOFTOP UNIT			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING UP OR TOWARD																
EA	EXHAUST AIR	RV	ROOF VENT			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TEE TURNING DOWN OR AWAY																
EAG	EXHAUST AIR GRILLE	SA	SUPPLY AIR			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TURNING DOWN OR AWAY																
EAR	EXHAUST AIR REGISTER	SAG	SUPPLY AIR GRILLE			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING UP OR TOWARD																
EAT	ENTERING AIR TEMPERATURE	SAR	SUPPLY AIR REGISTER			ROUND DUCT SECTION TURNED UP OR TOWARDS			PIPE TEE TURNING DOWN OR AWAY																
ECO	EXTERIOR CLEAN OUT	SAT	SUPPLY AIR TEMPERATURE			ROUND DUCT SECTION TURNED DOWN OR AWAY			PIPE TURNING DOWN OR AWAY																
EDH	ELECTRIC DUCT HEATER	SATT	SOUND ATTENUATOR																						
EER	ENERGY EFFICIENCY RATIO	SCH	SCHEDULE																						
EF	EXHAUST FAN	SCHWP	SECONDARY CHILLER WATER PUMP																						
EFF	EFFICIENCY	SD	SUPPLY DIFFUSER																						
ELEC	ELECTRIC, ELECTRICAL	SEC	SECOND																						
EQUIP	EQUIPMENT	SEER	SEASONAL ENERGY EFFICIENCY RATIO																						
ESP	EXTERNAL STATIC PRESSURE	SMACNA	SMACNA																						
EWT	ENTERING WATER TEMPERATURE	SF	SUPPLY FAN																						
EXIST	EXISTING	SFFT	SOFFIT GRILLE																						
*F	DEGREES FAHRENHEIT	SG	SHEET																						
FA	FACE AREA	SHT	SHEET																						
FACP	FIRE ALARM CONTROL PANEL	SP	STATIC PRESSURE																						
FAS	FIRE ALARM SYSTEM	SQ	SQUARE																						
FC	FORWARD CURVE	SS	STAINLESS STEEL																						

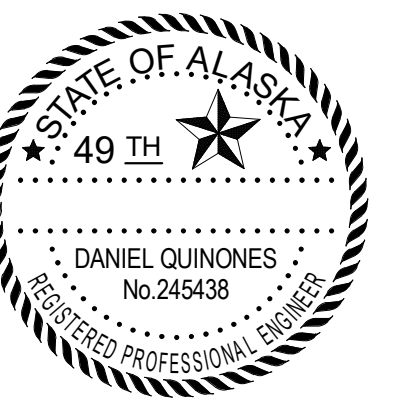
1. SEE SHEET M-601 FOR EQUIPMENT SCHEDULES.

1 DIRECT WIRE THERMOSTATS TO UNIT HEATERS UNDER UNIT.

DOCUMENT HISTORY

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AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
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ROYAL CANADIAN MOUNTED POLICE
 DANIEL QUINONES
 AK PE 245438

DESIGNED BY
D. QUINONES

RAWN BY
S. NASH

PROJECT NUMBER
C09729.001

05/08/2026

TITLE
LIVACIO

HVAC FLOOR PLAN

DRAWING NO.

M-101



1 HVAC FLOOR PLAN

1. FOR LOUVER AND ACCESS PANEL OPENINGS, REFER TO ARCHITECTURAL DETAILS FOR IMP
PENETRATIONS.

1. FOR LOUVER AND ACCESS PANEL OPENINGS, REFER TO ARCHITECTURAL DETAILS FOR IMP
PENETRATIONS.

1	38" x 24" EXHAUST DUCT, DIRECT CONNECTED TO COMPRESSOR AIR OUTLET.
2	THERMOSTATICALLY CONTROLLED RECIRCULATION LOUVER / DAMPER.
3	PROVIDE ACCESS DOOR TO COMPRESSOR MAINTENANCE.
4	UNIT HEATER UH-11 SHALL BE MOUNTED WITH BOTTOM OF HEATER 5'-0" AFF.

ISSUE FOR CONSTRUCTION

[illegible]

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ACHIEVEMENT OF RECORD
DANIEL QUINONES

DESIGNED BY
D. QUINONES

S. NASH

PROJECT NUMBER
C09729.001

DATE
05/08/2026

TITLE

MECHANICAL
ENLARGED
PLANS

DRAWING NO.

M-401





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S. NASH

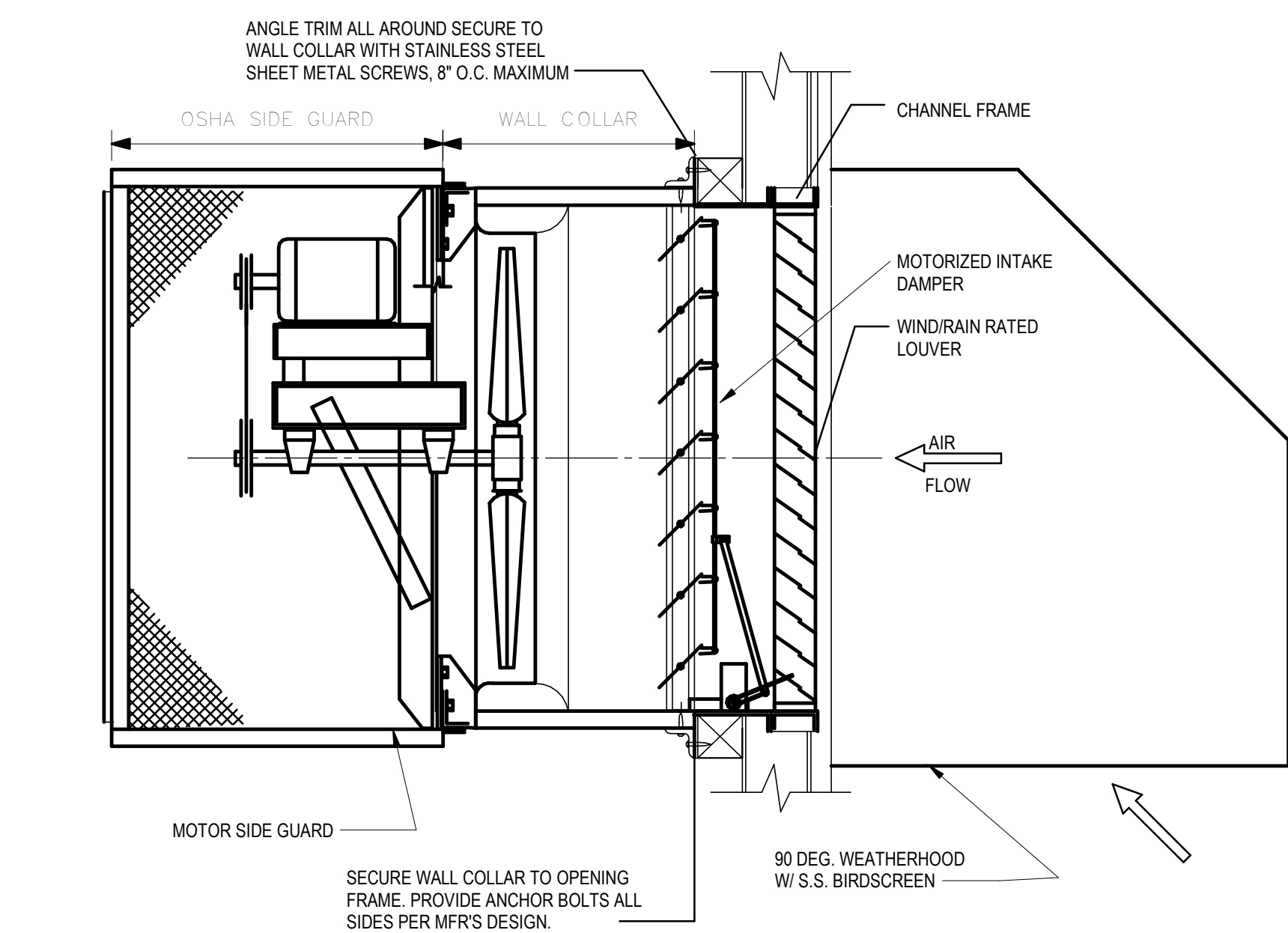
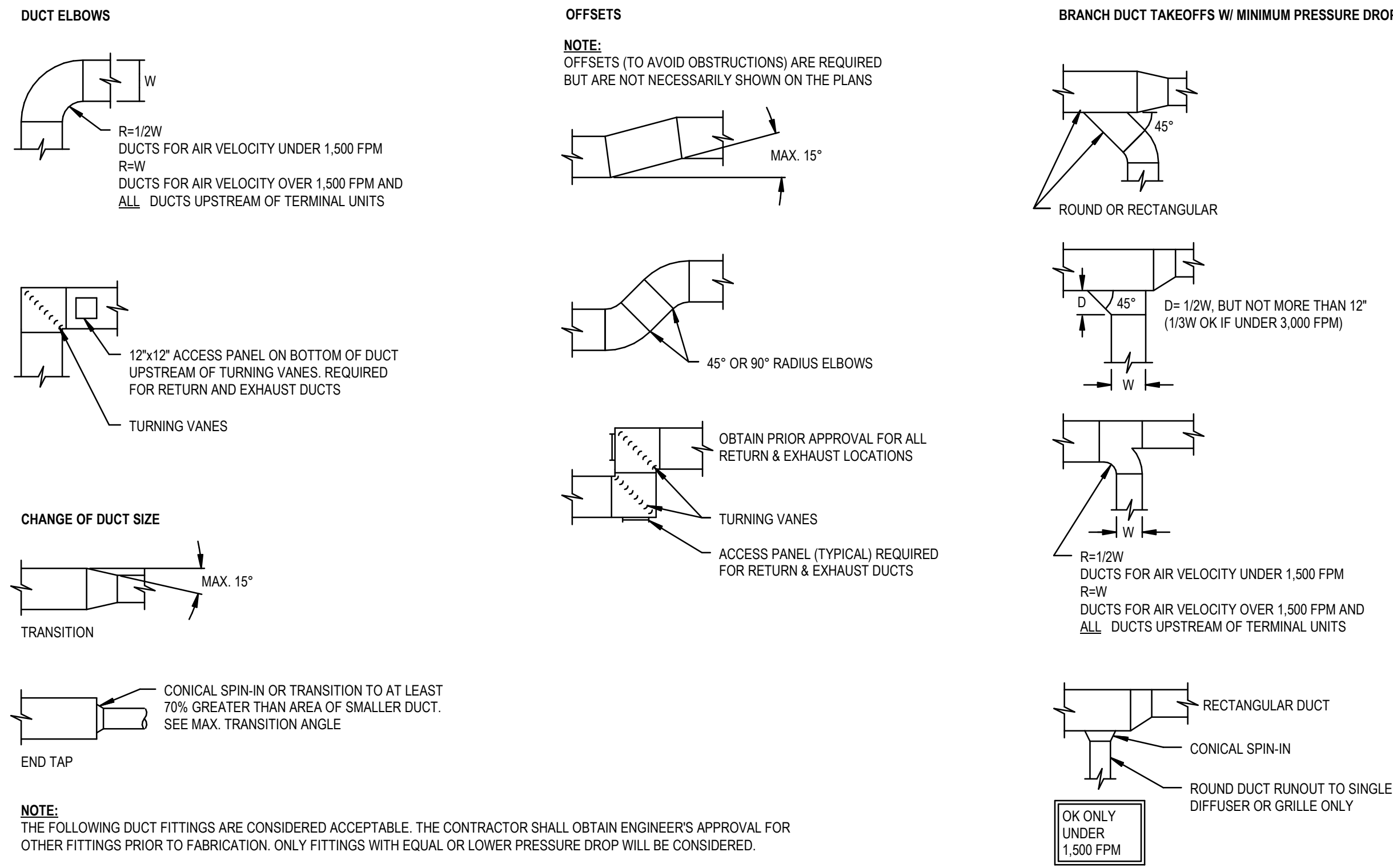
PROJECT NUMBER
200700-004

DATE

05/08/2026

MECHANICAL DETAILS

DRAWING NO.



2 VENTILATION WALL FAN DETAIL

1 DUCT FITTING REQUIREMENTS DETAIL



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DANIEL QUINONES
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DRAWN BY
S. NASH

PROJECT NUMBER
C09729.001

DATE
05/08/2026

TITLE

MECHANICAL SCHEDULES

DRAWING NO.

M-601

LOUVER SCHEDULE												
MARK	ASSOCIATED EQUIPMENT	MANUFACTURER	MODEL	TYPE	CFM	FREE AREA (FT²)	FREE AREA VELOCITY (FT/MIN)	ESP (IN. W.C)	HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	NOTES
L-1	AC-01	GREENHECK	ESD-36SD	INTAKE	3,200	5.1	600	0.03	30	48	5	ALL
L-2	AC-01	GREENHECK	ESD-36SD	EXHAUST	3,200	5.1	750	0.04	30	48	3	ALL

NOTES:
1. PROVIDE S.S. BIRDSCREEN AND INSECT SCREEN.
2. LOUVER TO BE AMCA 540 AND 550 RATED WITH DAMPER.
3. PROVIDE 2-4 MIL DFT OF BLACK ANODIZED ALUMINUM COATING.
4. PROVIDE WITH ACTUATED DAMPER.

FAN SCHEDULE											
MARK	MANUFACTURER/MODEL NO.	TYPE	SERVICE	DRIVE	SUPPLY FAN		HP	ELECTRICAL		FLA	REMARKS
					SUPPLY FAN CFM	ESP (IN. WC)		VOLT	PH		
EF-01	GREENHECK BAER-24-02-0310	INLINE	EXHAUST	BELT	2000	0.25	1/3	208	3	2.4	1,2,3,4,6,7,8
EF-02	GREENHECK BAER-24-02-0310	INLINE	EXHAUST	BELT	2000	0.25	1/3	208	3	2.4	1,2,3,4,6,7,8
EF-03	GREENHECK CUE-070-D	WALL	EXHAUST	DRIVE	250	0.25	1/30	115	1	-	1,2,3,6,8
SF-01	GREENHECK BAER-24-02-0310	INLINE	SUPPLY	BELT	2000	0.25	1/3	208	3	2.4	1,2,3,4,6,7,8
SF-02	GREENHECK BAER-24-02-0310	INLINE	SUPPLY	BELT	2000	0.25	1/3	208	3	2.4	1,2,3,4,6,7,8
HVLS-01	BAS 14" POWERFOIL	HVLS	CIRC	DRIVE	108721	-		480	3	10.0	1,5,9

GENERAL NOTES:

1. EXHAUST FAN SHALL OPERATE THROUGH THE LINE VOLTAGE THERMOSTAT. REFER TO CONTROL DIAGRAM AND SEQUENCE OF OPERATIONS.
2. PROVIDE GRAVITY BACKDRIFT DAMPER.
3. PROVIDE BIRDSCREEN, DISCONNECT SWITCH
4. PROVIDE 90 DEGREE HOODS.
5. 4 FT EXTENSION TUBE
6. PROVIDE ACTUATED DAMPER.
7. PROVIDE LOUVER.
8. PROVIDE MOTOR STARTER.
9. PROVIDE VFD.

ELECTRIC UNIT HEATER SCHEDULE								
MARK	MFG.	SERVICE	MODEL	CFM	MOUNTING HEIGHT	KW	VOLT/PHAS E	REMARKS
UH-01, UH-02, UH-03, UH-04, UH-05, UH-06, UH-07, UH-08, UH-09, UH-10	MODINE	VIB	REZNOR	530	8 FT	20.0	480/3	1.2
UH-11	MODINE	AC-01 CONEX	REZNOR	530	8 FT	3.0	480/3	1.2

GENERAL NOTES:

1. PROVIDE WITH UNIT HEATING ONLY THERMOSTAT MOUNTED 2'-0" BELOW UNIT ON CONDUIT. SET TO 65F.
2. PROVIDE FRONT STAMPED INLET AND OUTLET

ALL 208/480 VOLT MECHANICAL EQUIPMENT ("DISCRETE UNITS" AND "PACKAGED SYSTEMS") SHALL BE PROVIDED COMPLETE WITH ELECTRICAL FEATURES AND COMPONENTS, ALL FULLY COMPATIBLE, INTEGRATED, AND (TO THE EXTENT POSSIBLE) PREWIRED TO MEET THE FOLLOWING CRITERIA:

1. SINGLE POINT ELECTRICAL CONNECTION (UNLESS NOT AVAILABLE AS A STANDARD PRODUCT).
2. INCOMING POWER LOCKABLE DISCONNECT FUSED SWITCH COMPLETE WITH CURRENT LIMITING FUSES, OR LOCKABLE CIRCUIT BREAKER, UNO.
3. NEMA RATED COMBINATION STARTER(S), VARIABLE SPEED DRIVE(S), CONTROLLER(S), CONTROL TRANSFORMER(S), OVERLOAD ELEMENTS, AND CONTROLS.
4. NEMA ENCLOSURE(S): UNO, NEMA 1 INDOORS, NEMA 3R OUTDOORS.
5. ALL DEVICES AND FEATURES DESCRIBED HEREIN MAY BE FURNISHED IN AN APPROVED COMMON ENCLOSURE, WHERE APPROPRIATE.
6. ALL ELECTRICAL EQUIPMENT SHALL MEET THE MINIMUM SCCR (SHORT CIRCUIT CURRENT RATING) INTERRUPTING CAPACITY AND MINIMUM WITHSTAND RATING AS LISTED IN THE TABLE BELOW:

NOMINAL VOLTAGE AND PHASE	MAX. NOMINAL CURRENT RATING	MAX. EQUIPMENT POWER RATING (HP / KVA)	MIN. SCOR INTERRUPTING CAPACITY (KAIC - KILO AMPERE INTERRUPTING CAPACITY)	MIN. WITHSTANDING RATING
208V, 1 PHASE	30 A	5 HP / 5 KVA	10 KAIC	10 kA
208V, 3 PHASE	60 A	20 HP / 20 KVA	25 KAIC	25 kA
480V, 3 PHASE	20 A	15 HP / 15 KVA	10 KAIC	10 kA
480V, 3 PHASE	60 A	40 HP / 40 KVA	25 KAIC	25 kA
480V, 3 PHASE	600 A	400 HP / 400 KVA	65 KAIC	65 kA
480V, 3 PHASE	ABOVE 600 A	ABOVE 400 HP / 400 KVA	100 KAIC	100 kA

