GENERAL NOTES

- COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM SHALL BE PER THE MOST CURRENT BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL JURISDICTIONS.
- ALL AR-CONDITIONING. UNITS WITHOUT INTERNAL TRAP SHALL HAVE A P-TRAP FOR THE CONDENSATE PAN WITH PLUG TEES FOR CLEANING AND CONDENSATE PIPES SHALL BE DISCHARGED TO EXISTING CONDENSATE WASTE PIPING, VERIFY SIZE AND LOCATION AT SITE.
- MECHANICAL CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS AND DUCT ROUTING CLEARANCES WITH THE STRUCTURAL, REFLECTED CELING AND LIGHTING PLANS.
- 4) Plumbing contractor shall coordinate pulmbing year stacks with the equipment to maintain a minimum of 10 ft. from the Outside are intakes.

 A minimum of 10 ft. from the Outside are intakes.

 A life architectural and install per the Local Jurisdictions.
- ALL AIR DISTRIBUTION OUTLETS SHALL HAVE VOLUME CONTROL DEVICES.
- 7) ALL VOLUME DAMPERS IN NON-ACCESSIBLE CEILINGS SHALL HAVE A CONTROL ARM EXTENDED TO AN ACCESSIBLE LOCATION ("YOUNG" REGULATOR OF ROTO—TWIST, EMACT LOCATION OF CONTROL DEVICES VISIBLE IN FINISHED SPACES SHALL BE COORDINATED WITH THE ARCHITECT.
- 8) ALL 90 DEGREE TRUNK DUCT ELBOWS SHALL BE SMOOTH-ROUND OR SQUARE WITH TURNING VANES.
- MECHANICAL CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF PIPING AND DUCTWORK AND PENETRATIONS WITH THE STRUCTURE.
- 10) MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE 6' OR AS SHOWN ON DRAWINGS. 11) ALL DUCTWORK, EQUIPMENT AND PIPING SHALL BE SEISMICALLY SUPPORTED PER SMACNA AND LOCAL BEGUII ATIONS
- 12) ALL AIR FILTERS SMALL HAVE EFFICIENCY BASED ON THE ASHRAE STANDARD 52-76 (ATMOSPHERIC DUST SPOT).
- 13) ALL MECHANICAL EQUIPMENT SHALL CONFORM TO SMACNA AND LOCAL REGULATIONS FOR SEISMIC RESTRAINT (INCLUDING PIPING AND DUCTWORK).
- 14) ALL EQUIPMENT AND ACCESSORIES IN CONCEALED SPACES REQUIRING ACCESS SHALL HAVE ACCESS DOORS.
- 15) TOTAL SYSTEM SHALL BE WARRANTED FOR ONE YEAR; STARTING FROM THE TIME OF OWNER/ENGINEER'S FINAL ACCEPTANCE.
- A) PROVIDE FLEXIBLE CONNECTION IN ALL DUCTS CONNECTING TO AIR MOVING EQUIPMENT AS CLOSE TO FAN AS POSSIBLE. FLEXIBLE CONNECTION SHALL CONSIST OF 6" OR MORE OF AIR TROHT, FIREPROOF FLEXIBLE MOOPMENE CORTED WOVEN FIREMOUS GLASS MATERIAL VENT FABRICS, INC.
- ALL DUTTIERS SHALL BE SHEET METAL SOUND LIBED RECIDIOLARS SHOPEY AND RECIDED USED. WHICH IN CHEMICAL PROPERTIES AND THE LIME OF CHEMICAL SHIPSIAN, RESIDENCE OF CHEMICAL SHIPSIAN AND ALLOWED.

 ALL SHIPPY AND RECIDENCE SHOULD SHALL BE COMPRIGHTED FO DOUBLE LAMBATION OF ALL SHIPPY AND EXTENSIVE PLANS AND ALLOWED. ALLOWED. AND ALLOWED. ALLOWED. AND ALLOWED.
- D) PROVIDE LOCKABLE VOLUME DAMPERS IN ALL AIR DISTRIBUTION OUTLETS.
- DUCT HANGERS, SUPPORTS AND METHODS OF INSTALLATION SHALL CONFORM TO ASHRAE AND SMACNA RECOMMENDATIONS.
- F) DUCT SIZES SHOWN ON PLANS INDICATE INSIDE FREE AREA
- G) ALL DUCTWORK SHALL BE CLASS 1 AIR DUCT AS APPROVED BY U.L.-181.
- DUCTS SHEET METAL DUCTS SHALL BE INSULATED WITH THE INSULATION AND THICKNESSES AS SHOWN HEREIN (REDUCE THE INSULATION THICKNESS BY THERMAL VALUE OF SOUND LINING).
 - SUPPLY AIR DUCTS IN HEATED SPACE; NO INSULATION REQUIRED IF SOUNDLINED, OTHERWISE 1" THICK K = 0.23 \odot 75 DEGREES F.
 - SUPPLY AIR DUCTS IN NON-HEATED SPACE; APPROXIMATELY 3" THICK K=0.23 @ 75
 DEGREES F., TO PROVIDE A MINIMUM THERMAL RESISTANCE VALUE OF MINIMUM R-11.
 - SUPPLY AIR DUCTS OUTSIDE OF BUILDING SAME AS CONDITIONED SPACE EXCEPT WITH WEATHERPROOF BARRIER.
 - RETURN AIR DUCTS; SHALL HAVE SAME INSULATION AS THE SUPPLY AIR DUCTS.

 - 5. EXHAUST AIR DUCTS: NO INSULATION REQUIRED.
 - INDOOR DUCTS HANDLING OUTSIDE AIR SHALL HAVE FIBERGLASS BLANKET WITH VAPOR BARRIER JACKET ASJ, 17 THICK, K=0.23 © 75 DEGREES F. (ALL DUCTWORK FOR THE BULLDING SUPPLY FAM AND OUTSIDE AIR INTAKES TO INDIVIDUAL HEAT PUMPS).
- 17) THE CONTRACTOR SHALL NOT OPERATE THE EQUIPMENT FOR TEMPORARY HEATING OR VENTILATION DURING THE CONSTRUCTION. (ALL EQUIPMENT SHALL RUM FOR TESTING AND BALANCING PURPOSES ONLY). NOTIFY THE ENCAREE 48 HOURS (WINNIUM) IN ADVANCE TO ARRANGE A FINAL FIELD INSPECTION PRIOR TO COVERNIG UP THE CELLING.
- 18) EACH FAN UNIT OVER 2000 CRM SHALL HAVE A DUCT/SMOKE DETECTOR PER 2015 INC 606 IN RETURN DUCTS AS REQUIRED BY THE JURISDICTIONS, UNIT SHALL SHAT DOWN UPON SMOKE DETECTION CORONATE WITH FIRE ALARM CONSULTANT/CONTRACTOR PRIOR TO BIDDING/ CONSTRUCTION).
- 19) CONTINUENTER ET TO BERKE UP THE DOSCEMBLES AND ITILDS RECHI ARE NOT RESPECTALLY CALLED FOR OR SHOWN BUT ARE REQUIRED FOR A COUNTER HEXCHANGLA. STEIN AND ANY AFFECT INS COUNTER FOR A COUNTER HEXCHANGLA. STEIN AND AFFECT INS COUNTER FOR A COUNTER FOR ANY AROUND THE CONTRICT ANY ANY AFFECT IN COUNTER FOR A COUNTER TO SHOW FOR THE ORDER'S DESCRIBE. USE SHALL BE FUNDABLED TO THE OWNER AND FER LOCAL COOKS. MAINFACTURER'S RECOMMENDATIONS AND APPLICABLE STRANDARDS WITH THE ARCHITECT/PROMEETS AFFORMATION.
- 20) ALL EQUIPMENT SUPPLIED FOR INSECTION SHALL BE FIRE FROM DEFICTS IN MATERIAL, WOOMANSHIP, AND THILL AND SHALL BE OF THE RIND AND USUALTY DESCRIBED HERDIN. If I WOOMANSHIP, AND THILL AND SHALL BE OF THE RIND AND USUALTY DESCRIBED HERDIN. If I WARRANITES AROVE, THE CONTINUENT SHALL MEMBRANITY CONTROL AND EXPECT AND SHALL RESTORE THE STSTEM TO THE ORGANIL SATISFACTORY CONDITIONS AT HIS DEPOSE. THE FORECOME MEMBRANITY AND RESTORE THE PROPERTY OF THE PROPERTY
- 21) ENTIRE INSTALLATION OF ALL EQUIPMENT, CONTROL, PIPING, DUCTWORK AND RELATED ACCESSORIES SHALL BE PER BASIC OWNERS' STANDARDS, MECHANICAL CONTRACTOR IS TO FAMILIARIZE HIMSELF WITH THESE STANDARDS.
- 22) MECHANIAC CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ROUTING AND INSTALLATION FEASIBILITY OF ALL EDUPMENT, PHING AND DUCTRYORK PRIOR TO SUBMITTING HIS BIO AND INCLIDE IN HIS BID ADDITION, STREET, ETC. WHICH MIGHT BE REQUIRED FOR A COMPLETE SYSTEM READY FOR OWNER'S BENEFICIAL USE.
- 23) COORDINATE THE CONSTRUCTION SCHEDULE WITH THE ARCHITECT AND PERFORM ALL REQUIRED WORK STRICT ACCORDANCE WITH THE OWNER'S SCHEDULE.
- 24) MECHANICAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS AND CERTIFICATES REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.

PACKAGED THROUGH WALL HEAT PUMP SCHEDULE						
DESIGNATION:	PTHP-1	PTHP-2				
ZONE	GUEST ROOM	GUEST ROOM				
MANUFACTURER:	AMANA	AMANA				
MODEL:	PTH073G	PTH123G				
UNIT:	WALL MOUNTED	WALL MOUNTED				
COOLING . ARI (BTUH):	7600	12000				
EER:	12.0	11.0				
HEATING • ARI (BTUH):	6800	11300				
COP	3.4	3.2				
CFM HI/LO:	290	290				
MINLOSA CFM						
AUXILLARY HEAT (KW):	2.1	3.0				
MCA/MOCP	14/15	19.5/20				
VOLTAGE:	208	208				
PHASE:	1	1				
RECEPTACLE:						
WEIGHT (LBS):	112	112				
REMARKS:	(1)(2)	(1)(2)				
(1) WITH ALLIMINIUM ADOLUTEON	TUDAL OUTDOOD COULT WALL CLED	C COMPLETE WITH DOOM CADINET				

) WITH ALUMINUM ARCHITECTURA, OUTDOOR OFFILE, WILL SLEDE, COMPLETE WITH ROOM CABINET, SIZE-BASK MIT, POREST DECONNETS WITHOUT, MOSTALE, CHARGES, COMPORANTE ORANI KIT, AMANA OCCUPANCY SENSOR ACCESSORY, LOW VOLTACE WINE HARRESS, HARD WIRE KIT, LEYFLING LEGA, AND REJUNCT THEMPOSTAT CONTROL (AMANA OR SCUAL/COORD, VENTILATION DOOR SHALL PROVIDE WIN 500TM OF OUTSIDE VENTILATION JAR. COORDINATE WAILABLE UNIT GRILLE COLORS WITH ARCHITECT AND OWNER, UNIT WITH 2-SPEED FAM JOLUSTMENT.

(2) DRAIN KIT TO BE USED FOR CONCEALED CONDENSATE PIPING & DISCHARGE TO PLUMBING DRAIN RISER

FAN SCHEDULE					
DESIGNATION	EF-1	_			
ZONE	BATH RM./TOILET RM				
MANUF:	PANSONIC				
MODEL:	FV-05-11VKSL1	_			
TYPE:	CEILING				
DRIVE	DIRECT				
CFM#	110				
E.S.P. (IN-H20):	0.10"				
SONES (dBA):	<0.3				
HP FLA:	.10 AMPS	_			
VOLTAGE:	120				
PHASE:	1				
WEIGHT		_			
REMARKS:	(1)(2)	_			

ENERGY CODE NOTES:

(2) CONTROLLED BY LIGHT SWITCH

-) THERMOSTATS SHALL BE A 7 DAY PROGRAMMABLE TYPE WITH A 5 DEGREE DEADBAND AND AUTOMATIC SETBACK CONTROL PER C403.2.4.3.2 & C403.2.4.2 WSEC.
- HVAC EQUIPMENT SHALL MEET THE MINIMUM ENERGY EFFICIENCY RATINGS PER TABLES C403 WSEC.
- 3) DUCT INSULATION AND SEALING SHALL MEET WSEC
- 6) SUPPLY AND RETURN DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED TO MIN. R-6. ROOFTOP HVAC DUCTWORK SHALL HAVE A WEATHER BARRIER AND INSULATED TO R-8 PER C403.27.2 WSEC.
- SUPPLY AND RETURN DUCTS IN CONDITIONED SPACES SHALL BE INSULATED TO MIN. R-3.3 PER C403.2.7.2 WSEC.
- PIPING INSULATION SHALL MEET THE REQUIREMENTS OF TABLE 403.2.8 WSEC.
- 7) OUTSIDE AIR DUCTS SHALL BE INSULATED PER WSEC C403.2.7. OUTSIDE AIR DUCTS SHALL HAVE A MOTORIZED DAMPERS OR AUTOMATIC DAMPER FOR ALL OUTSIDE AIR INTAKES 403.2.4.4 WSEC.
- 8) HVAC SYSTEMS SHALL BE COMMISSIONED PER
- 9) FRACTIONAL HORSEPOWER MOTORS 1HP AND LESS SHALL MEET THE EFFICIENCIES PER C403.2.10.3.
- 10) An Air Barrier test shall be performed and Shall meet the criteria set forth in C402.5.1.2 where the bullding envelope shall not exceed 0.40 cfm/sf at a differential pressure of 0.3" w.g.

SUPPLY DUCTS SHALL BE CLOSED CELL ELASTOMERIC

DESIGN CODES:

ALL CODES WITH WASHINGTON STATE AMENDMENTS

2015 WASHINGTON STATE ENERGY CODE

2015 INTERNATIONAL MECHANICAL CODE

2015 UNIFORM PLUMBING CODE 2015 INTERNATIONAL FIRE CODE

DESIGNATION:	RTU-1					
ZONE	CORRIDORS					
MANUFACTURER	AAON					
MODEL:	RQ-005-8-V-EA09-359					
DISCHARGE	HORZ					
QAS TYPE	NAT.					
NOMINAL TON OF CLG	5.0					
COOLING • ARI (MBH):	64.24					
HEATING INPUT (MBH):	113.4					
HEATING OUTPUT (MBH):	90.72					
SEER:	14.5					
ICER .						
AFUE: (STEADY STATE)	(80%)					
FAN MOTOR DRIVE:	DIRECT					
CFM	1500					
E.B.P. (IN-H20):	.60"					
NDOOR FAN(HP/FLA):	1.0 HP					
OUTDOOR FAN(FLA):	2.8 FLA					
COMPRESSOR RLA/LRA:	16.9/					
COMB. FAN (FLA):						
MCA/MOCP	31/45					
VOLTAGE:	208					
PHASE	3					
WEIGHT (LBS):	1000					
REMARKS:	(1)					
NOTES:						
	MPR. SHORT-CYCLE PROTECTION, DUCTWORK THRU ROOF CURB, FILTER RACK					
(1) CRANK CASE HEATER / COMPR. SHORT-CTCLE PROTECTION, DUCTWORK THRO ROOF CORB, FILTER RACK						

ROOFTOP AIR HANDLER SCHEDULE

- AND 2" PLEATED FILERS WINT SAFETY FEATURES / BELT DRIVE OPTION, DUCT STAT AND CONTROLLER.
 SPRING ISOLATED ROOF CURB (MIN. 2" OF DEFLECTION).
- (2) INCLUDE SPRING LOADED ROOF CURB, DUAL BELTS, DUCT STAT AND CONTROLLER, VFD MOTOR AND VFD CONTROLLER (LOCATED INSIDE BLDG OR IN A NEMA VENTED WEATHERPROOF ENCLOSURE)

LEGEND						
SYMBOL	ABBREVIATION	DESCRIPTION				
O/S	T'STAT/SENSOR	THERMOSTAT/SENSOR				
[2]		DUCTWORK W/ TURNING VANE AND FLEX CONN.				
	VD	VOLUME DAMPER				
		RIGID DUCT				
		FLEXIBLE DUCT				
ф		ROUND SPIN-IN WITH V.D.				
	FD	1 HR FIRE DAMPER				
SFD CFD		2 HR SMOKE FIRE DAMPER				
		CEILING RADIATION FIRE DAMPI				
		1 HR FIRE RATED WALL				
		2 HR FIRE RATED WALL				
×	CD	SQUARE CEILING DIFFUSER				
	CG	SQUARE CEILING GRILLE				
—CD— CD		CONDENSATE DRAIN LINE				
		SMOKE DUCT DETECTOR				
	A.F.F.	ABOVE FINISHED FLOOR				

		SHEET INDEX
<u>s</u>	M1.0	GENERAL NOTES, LEGEND & SHEET INDEX
)^'(M1.0	GENERAL NOTES, LEGEND & SHEET INDEX
7(M2.1	FIRST LEVEL FLOOR PLAN - HVAC
	M2.0	SECOND LEVEL FLOOR PLAN - HVAC
	м3.0	THIRD LEVEL FLOOR PLAN - HVAC
	M4.0	FOURTH LEVEL FLOOR PLAN - HVAC
	M5.0	ROOF PLAN - HVAC
	M6.0	MECHANICAL DETAILS
	M7.0	SPECIFICATIONS

B-20-0078

Did not locate any clouded or #8 revision for 02/14/2024 referenced in mechanical sheets submitted for revision.





HAMPTON UITES $_{
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ADDITION

SCHEDULES NOTES, NO LEGE GENERAL

Revisions: <u></u> 6 01/24/2024 ↑ 02/03/2024 HEAT TRACING ADD. 8 02/14/2024 ELEC

Job No.: 219007 Date: 01/03/2024

M1.0

City of Puyallup ment & Permitting S Building Planning Engineering Public Works

				~	~~	~~	\sim	\sim	~	~	\	\sim	~ ~	
Ventilation Rate per 2018 IMC 403 (based on ASHRAE Std. 62.1)														
(Zone				Zone Air		System		Proposesd
۱ ۱					People Outdoor		Area Outdoor		Zone			Ventilation	Minimum	Design
					Air Rate	Number of	Air Rate	Occupant	Outdoor Air	Effectiveness	Outdoor Air	Efficiency Ev	Outdoor Air	Outdoor Air (
М					(cfm/person)	people in	(cfm/sf)	Density	Flow	Ez (Table	Flow	(Table	Intake Flow	Intake Flow
	Equip. Tag	Zone	Occupancy Category	Area (sf)	Table 403.3	space.*	(Table 403.3)	(#/1000 sf)	Vbz/(CFM)	403.3.1.2)	(Voz/(CFM)	403.3.2.3.2	Vot/(CFM)	Vot/(CFM)
	1st Floor													_ <
15	MAU-2 (exist)	Meeting Room 108	Conference/Meeting*	247	5.0	10	0.06	50	50.00	1.00	50.00	0.90	45	90
1														<
.)					
1														/
Y	La sagre case your programment in the stand magnimum year allowed profit 403.3 Aveceptings, langua cases shall the accurancy beliefs than other holding profits of 403.4 Aveceptings. Language cases your profits of the standard profits of the stand													

	SPLIT SYSTEM HEAT PUMP SCHEDULE							
DESIGNATION:	IHP-1	OHP-1						
ZONE/FLOOR:	MEETING RM	MEETING RM						
MANUFACTURER:	MITSUBISHI	MITSUBISHI						
MODEL:	MSZ-FS12NA	MUX-FS12NA						
UNIT:	INDOOR	OUTDOOR						
NOMINAL TONS		1.0						
COOLING • ARI (MBH):		12						
HEATING • LOW ARI 17F (MBH):		7.5						
SEER (IEER):		26.3						
COP (HSPF):		4.2 (11.1)						
CFM#	200							
E.S.P. (IN-H20):								
(1)AUXILLARY HEAT (KW):								
NDOOR FAN HP(FLA):	.65							
OUTDOOR FAN(FLA):								
COMPRESSOR RLA/LRA:								
MCA/MOCP	1 AMP	10/15						
VOLTAGE:	208	208						
PHASE	1	1						
WEIGHT (LBS):	29	63						
REMARKS:	(1)(2)(4)	(2)(3)						
(1) INSTALL UNIT AS SHOWN AND AS RECOMMENDED BY THE MANUFACTURER AND IN COMPLIANCE WITH LOCAL CODES.								

(1) INSTALL INSTITAS SHEMIN AND AS RECOMMENDED BY THE MANUFACTURER AND IN COMPLIANCE WITH LOCAL COORS.

2) RAIGH REPROGRANT, COMPRESSOR SHERT COLDE PROTECTIOR, HENG/LOUR PRESS, SIMPLE, DEEDERS COMPRIE, PLEIDE REPER AND LIQUID SOLEHOID, HEPER-HEATING OPTION

VALVE, THERMESTATIC EXPANSION WALVE, SINGLE FROM ELECTRICAL CONNECTION, CONSIDERITE PHAP ACCESSORY, CONSULT MANUFACTURER FOR ACCESSORES REQUIRED DUE TO

LOCATION OF BOOKOP/ULDTOOK HIMS WHILL HAVE THE STATE EMERGY CODE APPROVED CERTIFICATIONS IN ORDER TO MEETING. AND LOCAL HISS.

(3) ACAH INDOOR/ULDTOOK HIMS SHALL HAVE THE STATE EMERGY CODE APPROVED CERTIFICATIONS IN ORDER TO MEET THE REQUIRED EMERGY PATHNOS,

TESTS & CERTIFICATIONS AS COMMENDED UNITS.

(4) ECONOMIZER EXCEPTION WSEC C403.5, EXCEPTION 3.

NOTE: CONTRACTOR SHALL USE REFRIGERANT LONG LINE GUIDE FOR PIPE SIZING PER MANUFACTURER WHEN LINES EXCEED 50 FT IN LENGTH. VERBY WITH MITG FOR EXACT SIZES.

ENGINEERING L.L.C

MECHANICAL - ELECTRICAL LEED - PLUMBING -FIRE PROTECTION

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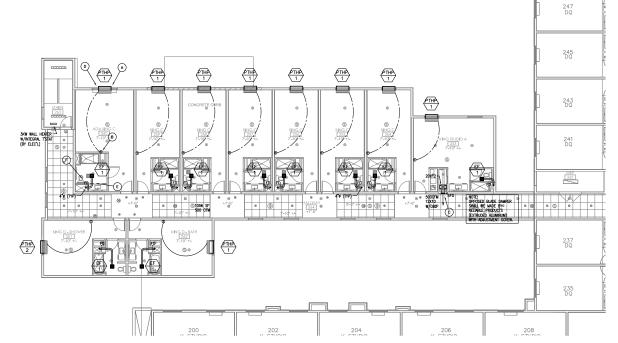


ADDITION TO HAMPTON INN SUITES

GENERAL NOTES, SCHEDULES AND LEGEND

M1.1

City of Puyallup opment & Permitting Serv ISSUED PERMIT Building Planning Engineering Public Works





SCALE: 1/8" = 1'-0"

2ND LEVEL FLOOR PLAN - HVAC

KEYED PLAN NOTES:

(a) THEU MAU, HAT PURP IN MAU, SEENE, OUTSIDE AR DOOR TO REMAN OPEN, NOT WHITE WAT PURP IN MAU. SEENE, OUTSIDE AR DOOR TO REMAN OF DANI MIT WHITE ALL CONDENSATE PRIVATE SHALL BE, INSULATED WITH CUSED CELL ELISTOMERO, INSULATION LINT TO DERIOZE WAS COURANCY SESSOR (REPREY MYDMORY) (MPDICA).

B) WALL MOUNTED THERMOSTAT. MOUNT AT 48" AFF IN ADA UNITS. (TYPICAL) © FRONT ACCESS TYPE COMBINATION FIRE/SMOKE DAMPER. OVERSIZE SUPPLY GRILLE TO CONCEAL ACTUATOR COMPARTMENT (TYPICAL). SEE DETAIL A/M6.0

 $\bigcirc\hspace{-0.05cm}\bigcirc$ see plumbing drawings for condensate piping (Typ). (E) DUCTWORK SHALL BE FABRICATED AND SUPPORTED PER SMACNA LATEST EDITION OF DUCT CONSTRUCTION STANDARDS. SEE (TYP).

F SEE FIRE DAWPER DETAIL C/M6.0

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ADDITION TO HAMPTON INN SUITES

2ND LEVEL FLOOR PLAN HVAC

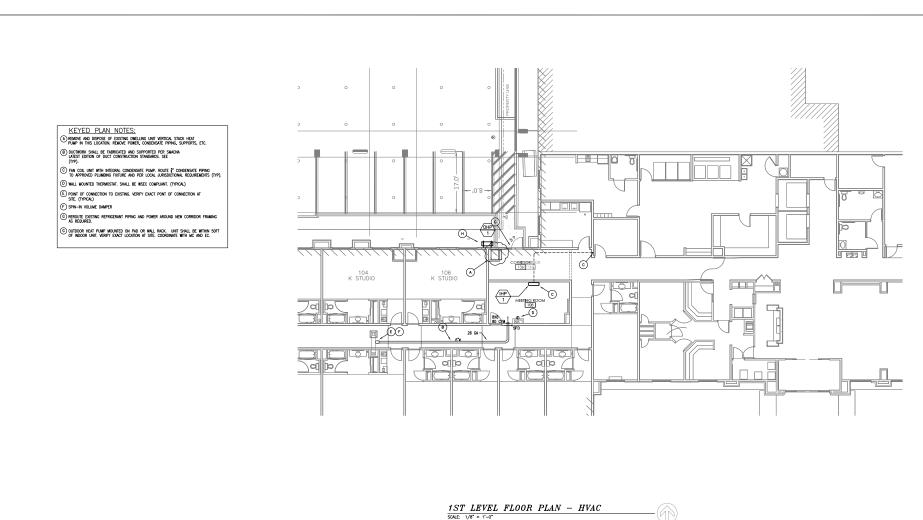
Revisions:

<u>♠</u> 01/24/2024

↑ 02/03/2024 HEAT TRACING ADD. 8 02/14/2024 ELEC REVISIONS

Job No.: 219007 Date: 01/03/2024

M2.0





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ADDITION TO HAMPTON INN SUITES

1ST LEVEL FLOOR PLAN HVAC

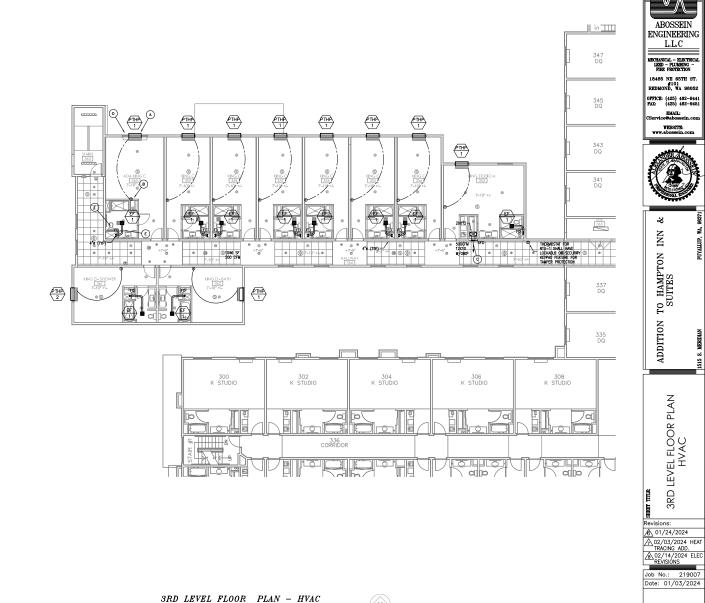
Revisions:

<u>♠</u> 01/24/2024

↑ 02/03/2024 HEAT TRACING ADD. 8 02/14/2024 ELEC REVISIONS

Job No.: 219007 Date: 01/03/2024





SCALE: 1/8" = 1'-0"

KEYED PLAN NOTES:

F SEE FIRE DAMPER DETAIL C/M6.0

(A) THRU WALL HEAT PUMP IN WALL SLEVE. OUTSIDE AIR DOOR TO REMAN OPEN. UNIT WITH REMOTE "TSTAT, HARDINED SUB-BASE KIT AND CONDENSATE DRAIN NOT. WE'LL CONDENSATE PRING STALL BE INDULTED WITH CLOSED CELL ELSTOWERIC INSULATION UNIT TO EMERGIZE WA OCCUPANCY SENSOR (VERIFY W/OWNER) (TYPICAL)

(B) WALL MOUNTED THERMOSTAT, MOUNT AT 48" AFF IN ADA UNITS, (TYPICAL)

① SEE PLUMBING DRAWINGS FOR CONDENSATE PIPING (TYP). (Typ).

© FRONT ACCESS TYPE COMBINATION FIRE/SMOKE DAMPER. OVERSIZE SUPPLY GRILLE TO CONCEAL ACTUATOR COMPARTMENT (TYPICAL). SEE DETAIL A/M6.0

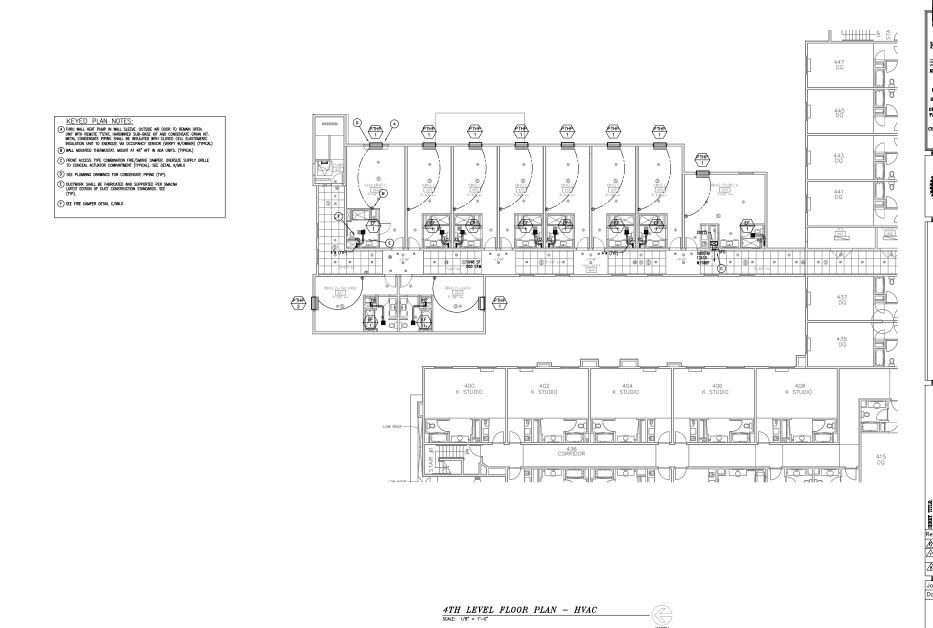
City of Puyallup pment & Permitting Service ISSUED PERMIT Building Planning Engineering Public Works

M3.0

3RD LEVEL FLOOR PLAN HVAC

L.L.C

EMAIL:



ABOSSEIN
ENGINEERING
LLLC

METHANICAL - ELETTRICAL
LEED - FULMENO - THE PROPERTOR THE PROPERTOR THE PROPERTOR THE PAGE 1423 462-4641
FALL (425) 462-4641



ADDITION TO HAMPTON INN & SUITES

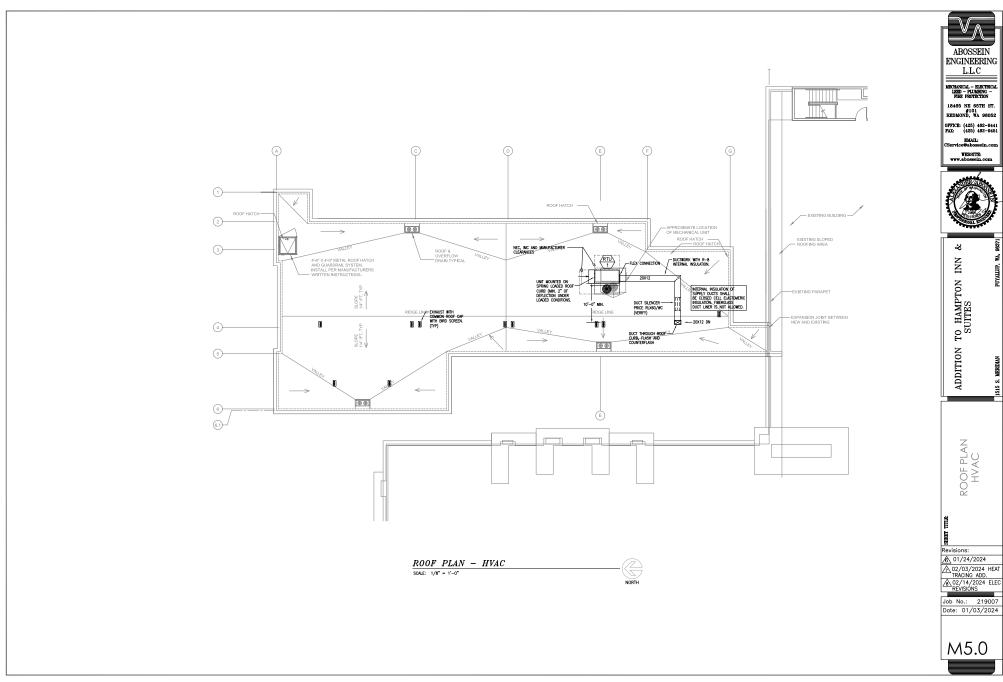
4TH LEVEL FLOOR PLAN HVAC

02/03/2024 HEAT TRACING ADD. 02/14/2024 ELEC REVISIONS

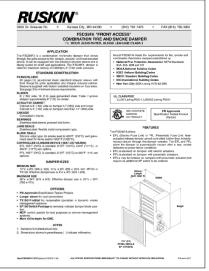
Job No.: 219007 Date: 01/03/2024

M4.0

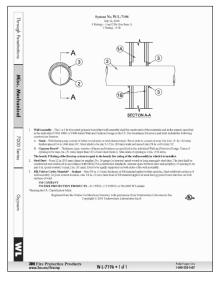
City of Puyallup
Development & Permitting Services
(ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic







FIRE DAMPER DETAIL







MECHANICAL DETAILS

Revisions: <u>6</u> 01/24/2024

02/03/2024 HEAT TRACING ADD. 8 02/14/2024 ELEC REVISIONS

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ADDITION TO HAMPTON INN SUITES

Job No.: 219007 Date: 01/03/2024

M6.0

City of Puyallup pment & Permitting : ISSUED PERMIT Building Planning Engineering Public Works





HVAC SPECIFICATIONS - DIVISION #23

- 1.01 LOCAL CONDITIONS: VISIT AND INSPECT THE PREMISES TO ASCERTAIN THE EXISTING CONDITIONS BEFORE SUBMITTING A BID. NO EXTRA PAYMENT WILL BE ALLOWED FOR THE LACK OF KNOWLEDGE OF THESE CONDITIONS
- 1.02 CODES: STRICTLY COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.
 - IMC MECHANICAL CODE IPC PLUMBING CODE IFGC FUEL GAS CODE
- 1.03 STANDARDS: THE FOLLOWING PUBLICATIONS (LATEST EDITION) FORM A PART OF THESE REQUIREMENTS TO THE EXTENT INDICATED BY THE REFERENCES THERETO:
 - SHEET METAL AND AIR CONDITIONING CONTRACTOR NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL
- 1.04 PLANS AND SPECIFICATIONS: THE MECHANICAL DRAWINGS ARE DIAGRAMATIC IN CHARACTER INTENDED TO COVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS, PPINC, ETC., AND APPROXIMENT SEZES AND CLOSTIONS OF FOUNDERS AND COURTES OF THE STEEL FROM THE STRUCTURE AND FROM THE COURTAIN, NOT FROM THE DRAWINGS OF THE SYSTEM FROM THE STRUCTURE AND FROM THE COURTAIN, NOT FROM THE DRAWINGS ON ON SOURCE SUSPENDING NOT USE AS SHOTO DRAWING.
- 1.05 PROVIDE ALL TIBLE, EQUIPMENT, MATERIALS, OPERATIONS, OR METHODS USTED, METHODES OR SCHEDILED ON THE DEPONINGS, AND/OR HERSEN INCLUDED, ALL MICROSTINS, AND ACCESSIONES NESTSSAY AND REQUIRED FOR INSTALLATION OR MOUNTING, OR NORMALLY SUPPLIED BY COMMON PRACTICE MHETHER SPECIFICALLY METHODES OF NOT, TO PROVIDE COMPLETE AND PROPERTY PRINCIPOLISMS STSTEMS.
- 1.06 BRING ANY NON-COMPLIANCES WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS, CONFLICTS AND DISCREPANCIES TO THE ENGINEER'S ATTENTION BEFORE SUBMITTING BID. A CORRECT, COMPLETE AND EASILY MATAZINED SYSTEM IS INTENDED.
- 1.07 THE CONTRACTOR'S BID WILL BE CONSTRUED AS AN AGREEMENT TO COMPLETE THE WORK WITHOUT ADDITION COST TO THE OWNER. WHERE CONFLICTS BETWEEN PLANS AND SPECIFICATIONS OR COMPLICTING INFORMATION ON THE PLANS COCURS, THE CONFLICTS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO BIDDING. THE MORE COSTLY ALTERNATIVE SHALL BE INCLUIDED IN THE BID PRICE.
- 1.00 MME IN CHARGES IN THE WORK SPECIED, UNLESS SUCH CHARGES ARE AUTHORISED IN WITHOUT STREET OWNER, ACCOMPANY ACCOUNTED A WORK HAS BEEN AUTHORISED AND THE AUTHORISED FOR TOTAL WORK HAS BEEN AUTHORISED AND THE AUTHORIZATION CONTAINS A STATEMENT OF THE WORK TO BE ACCOMPLISTED AND THE AUTHORIZATION CONTAINS A STATEMENT OF THE WORK TO BE
- 1.09 IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE A MECHANICAL SYSTEM COMPLETE, FULLY ADJUSTED, AND READY TO USE.
- 1.10 IT IS THE INTENTION OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED, AND READY FOR OPERATION. WHEREVER THE WORK "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY TO USE."
 - MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE WORK, THE SAME AS IF HEREIN SPECIFIED OR SHOWN.
- 1.11 THE CONTRACTOR SHALL ONE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL OWNERHANDS SALES VILESS, FEES AND OTHER COSTS, NELLIDING UITHY CONNECTIONS OF OUMENTS AND OBTAIN ALL NECESSARY ARREVAILS OF ALL OWNERHAMEN, DEPRIMENTS HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF RESPECTION OF HIS WORK AND GELIVER SAME TO THE ARRESTITION EXPENSES FOR ALCEPTION FOR WORK AND GELIVER SAME TO THE ARRESTITION EXPENSES FOR ALCEPTION FOR WORK AND GELIVER SAME
- 1.12 THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERNALS, SERVICES, APPARATUS, DRAWINGS, IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REQULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED.

PART 200 PRODUCTS

- 2.01 MATERIALS AND EQUIPMENT SUBSTITUTIONS: THE BID PRICE SHALL BE BASED ON THE MATERIALS, EQUIPMENT AND/OR SERVICES AS SCHEDULED ON THE DRAWINGS AND/OR SPECIALED HEBIN, AND/OR AS ACCEPTED PRIOR TO BIDDING.
- 2.02 REQUESTS FOR ACCEPTANCE OF ALTERNATIVES SHALL BE SUBMITTED TEN (10) DAYS PRIOR TO BID.
- 2.03 ACCEPTANCE OF ALTERNATE OR SUBSTITUTE EQUIPMENT IN NO WAY YOURS MATERIAL OR PERFORMANCE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ANY MATERIAL OR FOURHERS INSISTITUTE FOR SPECIFIC ITEMS ACCEPTED BY THE ARCHITECT AND/OR TRAINERE BEFORE OR AFTER THE BID DATE. CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY SUBSTITUTE EQUIPMENT IN THE STSTED DESCIN.
- 2.04 CONTRACTOR SHALL PAY FOR ALL EXTRA COSTS BY ANY TRADE FOR CHANGES NECESSITATED BY MATERIAL OR FOURPMENT SUBSTITUTIONS RECARDLESS OF ACCEPTANCE WITHOUT FURTHER COST TO THE CLIENT.
- 2.05 REVIEW OF MATERIALS AND EQUIPMENT: WITHIN 30 DAYS OF CONTRACT AWARD, SUBMIT FIVE COPIES OF EACH
- 2.06 GENERAL MATERIALS AND EQUIPMENT: ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND OF THE BEST OF CATALOG GRADE INDICATED AND/OR SPECIFIED AND SHALL BE FREE FROM ALL DEFECTS.
- 2.07 MATERIAL AND EQUIPMENT SPECIFIED HEREIN SHALL BE GUARANTEED BY THE MANUFACTURER TO PERFORM TO STANDARDS INDICATED OR INFERRED IN PUBLISHED LITERATURE OR CATALOG DATA. MANUFACTURER'S RECOMMENDATIONS SHALL BE CLOSELY POLICOWED ON INSTALLATION.
- 2.08 refrigerant pipms: "tipe" \" or tipe" \" with Brazed high Temperature solder Joints, pipe Shill be clean and tisted for leaks, insulate suction pipms with 1 inch timos closed cell Elastowers insulation (or deregiass) with the Junest saled where tight, over cuttoor insulation with alumnum or plastic Jacket applied in accordance with manufacturer's recommendations.
- 2.09 AL INSLATION SHALL HAVE A COMPOSITE INSLATION, MOCKET OR FLORE, AND ADDESSEY PIER MAJOR DATION OF STETTED BY AND IT—AA, MAYOR ADDINGS, THESE OF STORE SHEED AND 50 SHOKE DEPLEIPED. ACCESSORES SHUCH AS COMMINGS, THESE, AND ADDESSES SHALL HAVE THE AND SAME COMPOSITE ORDINGS. ALL REQUIRED MATERIALS OF THESE CONTRACES SHALL HAVE THE AND ADDINGS THE CONTRACTOR SHALL HAVE AND ADDITIONAL ASTALL E-84, UL-723, ASDIAN, 80-75 AND THE STATE EMEROY CODE. ACCESSABLE MANUFACTURESS. CETTAMETED, ONESS-CORRINGS, DANLE FROM THE STATE EMEROY CODE. ACCESSABLE MANUFACTURESS.

PART 300 EXECUTION

- 3.01 PERMITS AND INSPECTIONS: APPLY AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTION REQUIRED FOR THE WORK, AND AT COMPLETION, PRESENT THE OWNER WITH THE SIGNED CERTIFICATES OF FINAL INSPECTION.
- 3.02 UTILITIES: CHARGES BY UTILITY COMPANIES FOR PROVIDING SERVICES SHALL BE PAID BY OWNER AND WILL NOT BE A PART OF THIS CONTRACT. THE CONTRACTOR SHALL DO INSTALLATION WORK NORMALLY PROVIDED IN
- 3.03 PLACE AND ARRANGE EQUIPMENT, PIPING, DUCTS, CONTROLS, ETC., TO FIT THE SPACE AVAILABLE. INCLUDING ALL OFFSETS IN PIPING OR DUCTS, DUCT TRANSFORMATIONS, ETC. REQUIRED.
- 3.04 Submit shop drawings for temperature control systems, mechanical equipment wiring, mechanical equipment and materials which cannot be adequately described by manufacturer's printed sheets, and for such additional tems as the address themseem may direct.
- 3.05 CLEARLY MARK SUBMITTALS AS TO PLAN CODE, SPECIFIC ITEM PROPOSED, CATALOG NUMBERS, RECESS OPENINGS, DIMENSIONS, CAPACITIES, ELECTRICAL CHARACTERISTICS, ETC... SUBMITTALS WHICH ARE INCOMPLETE WILL BE REJECTED.
- 3.06 THE ENGINEER'S CHECK SHALL BE GENERAL, AND DOES NOT RELIEVE THE CONTRACTOR OF FINAL RESPONSIBILITY OF COMPLIANCE TO THE INTENT OF THE PLANS AND SPECIFICATIONS.
- 3.07 SUPERVISION AND WORKMANSHIP: QUALIFIED SUPERVISION FOR EACH TRADE SHALL BE IN CHARGE OF THE WORK AT ALL TIMES AND SHALL BE ON THE JOB SITE WHENEVER WORK IN THAT TRADE IS BEING

- 3.08 ALL WORK SHALL BE DONE IN A FIRST-CLASS MANNER BY WORKMEN SKILLED IN THE TRADE AFFECTED.
- 3.09 CLEANING PIPING, DUCTS, EQUIPMENT: THOROUGHLY CLEAN ALL DUCTS AND COUPMENT OF DIRT, CUTTINGS, AND OTHER FOREIGN SUBSTANCES. REMOVE FROM PREMISES ALL RUBBISH AND DEBRIS, LEAVING THE AREA CLEAN AND READY FOR USE.
- 3.10 EQUIPMENT START-UP: ADJUST ALL BELTS, OR OTHER DRIVES AND CHECK MOTOR ROTATIONS
- INSTALL TEMPORARY AIR FILTERS IN AIR HANDLING EQUIPMENT THAT IS BEING USED FOR HEATING OR VENTILATION DURING CONSTRUCTION. INSTALL A NEW SET OF THE SPECIFIED AIR FILTERS FOR THE EQUIPMENT AT THE COMPLETON OF THE JOY.
- COMPLICION. OFFERE AL MICHANICA SYSTEMS, INCLUDING ALL COMPINET FURNISHED LINES THE MISSION FOR A PRODUCE THE SOUTH OF LINES OF A MAN WE REQUIRED AT THE DISTORTION ON THE ARCHITECT/SHOWNER TO FROME THAT ALL COMPINENS ARE PROPERLY OFFERING AND THAT THE COMPILET INCLUDING THE ARCHITECT SOUTHER AND ARCHITECT SOUTHER AND ADDRESSEST TO THE FULL EXTENT OF A PHASE AND SYSTEMS AND ARCHITECT SOUTHER AND ARCHITECT SOUTHERS AND ARCHITECT SOUTHERS AND ARCHITECT SOUTHERS. AND ARCHITECT SOUTHERS AND ARCHITECTURES. AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES. AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES. AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES. AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES. AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES. AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES. AND ARCHITECTURES AND ARCHITECTURES AND ARCHITECTURES. AND ARCHITECTURES
- OPERATING INSTRUCTIONS: SUBJUIT 30 DAYS PROR TO COMPLETION OF THE PROJECT, FOUR (4) SETS OF OPERATING PROCHERS. EACH BROCHIRE SHALL INCLUDE OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, INSTRUCTIONS, PATS LISTS AND WERNO DUGGRAFO FOR EACH TIEL OF MICHARDAN, EQUIPMENT WITH MIXING OR MOVINGE PARTS. THE RROCHIRE SHALL ALSO INCLUDE OPERATIONAL. AND ADKRABAS OF TEMPERATURE CONTROL STSTEMS.
- 3.14 PROVIDE PREMIETRE OFERATINE INSTRUCTIONS IN THE EROCAURE COVERING EACH PIECE OF MOTORIZED MECHANICAL EQUIPMENT. FOUR FORMAL STRING AND STOPHEN PROFICEMENT, ADMOS WITH PROPER PARTIES TO CONTACT IN THE EVENT OF EMERGENCY, FAILURE OF CONTROLS OR EQUIPMENT. OUTLINE OF INSTRUCTIONS AS FOLLOWS:
 - PROVIDE LUBRICATION INSTRUCTIONS FOR EACH MOTOR BEARING OR OPERABLE PIECE OF EQUIPMENT. GIVE FREQUENCY OF LUBRICATION, TYPE AND BRAND OF OIL OR GREASE.
 - INCLUDE CALIBRATION. CLEANING AND ADJUSTMENT SCHEDULES AND PROCEDURES.
 - INCLUDE COPIES OF MANUFACTURER'S LITERATURE ON MAINTENANCE AND OPERATION OF EACH PIECE OF EQUIPMENT, INCLUDING INSTALLATION INSTRUCTIONS, DIAGRAMS, AND PARTS LISTS, IN EACH
- 315 AS-BUILT DRAWINGS: SUBMIT AS-BUILT DRAWINGS AT COMPLETION OF WORK
- 3.16 CUARANTEE: THE MECHANICAL SYSTEM SHALL BE LEFT IN PROPER WORKING ORDER. REPLACE ANY WORK, MATERIAL OR EQUIPMENT PROVIDED UNDER THIS CONTRACT WHICH DEVELOPS DETECTS WITHIN ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMMENTION WITHOUT ADDITIONAL CHARGES. A NEW OWE (1) YEAR GUARANTEE ON THE AFFECTED TIEM OR RIFLUS SHALL BE PROVIDED COMMENCING ON THE DATE OF THE APPROVED REPAIR OR REPLACEDRIT.

ПЕМ	FURNISHED BY	INSTALLED BY OR MOUNTED BY	WIRED AND/OR CONNECTED BY
EQUIPMENT MOTORS	MC	MC	EC
MOTOR CONTROLLERS, PUSHBUTTON			
STATIONS, PILOT LIGHTS, ETC.	MC	EC	EC
MULTI-SPEED SWITCHES LINE VOLTAGE THERMOSTATS	мс	EC	EC
DISCONNECT SWITCHES, (FUSED OR UNFUSED), HP RATED SWITCHES, THERMAL OVERLOAD SWITCHES, ETC.	MC	EC	EC
LOW VOLTAGE THERMOSTATS, CONTROL RELAYS, TIME CLOCKS, CONTROL TRANSFORMER, CONTROL PANELS, PRESSURESTATS, MOTOR VALVES, DAMPER MOTORS, SOLENOID VALVES, EA & PE SWITCHES, ETC. AND ALL INTERLOCK WIRING	MC	мс	мс
MC - MECHANICAL CONTRACT			

- THE MECHANICAL CONTRACTOR SHALL FURNISH ALL MAGNETIC STARTERS OR CONTACTORS. 3.18 ALL MANUAL OR AUTOMATIC CONTROL AND PROTECTIVE OR SIGNAL DEVICES REQUIRED BUT NOT INDICATED ON ELECTRICAL PLANS SHALL BE FURRISHED AND INSTALLED UNDER THIS DIVISION OF THE SPECIFICATIONS. THE WIRING INSTALLATION SHALL CONFORM TO ELECTRICAL DIVISION.
- 3.19 ALL WIRING CONNECTIONS TO CONTROLS ATTACHED TO DUCT WORK, OR MECHANICAL EQUIPMENT SHALL BE MADE WITH FLEXIBLE CONNECTIONS TO PREVENT VIBRATION.
- 3.20 COORDINATE WITH THE ELECTRICAL CONTRACTOR BEFORE ORDERING MOTORS AND/OR OTHER ELECTRICAL EQUIPMENT TO ASSURE ELECTRICAL EQUIPMENT BEING OF PROPER ELECTRICAL CHARACTERISTICS.
- 3.21 FURNISH PROPER NEMA TYPE ENCLOSURES FOR ALL STARTERS AND/OR CONTACTORS AS REQUIRED BY USAGE OR
- 3.22 PROVIDE HEAVY DUTY SPEED SELECTOR SWITCHES, THERMAL MAGNETIC SWITCHES, START STOP PUSH BUTTON STATIONS ETC. AS REQUIRED.
- 3.23 CUTTING AND PATCHING: CAREFULLY PERFORM ALL WORK WHERE CUTTING, CHANNELING, CHASING, OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES IS NECESSARY FOR PROPER INSTALLATION OR SUPPORT OF DUCTS. PIPING OR OTHER MCCHANGLA EQUIPMENT.
- 3.24 ANY DAMAGE TO BUILDING, PIPING, EQUIPMENT, PLASTER, WOODWORK OR METAL WORK SHALL BE REPAIRED BY SKILLED MECHANICS OF TRADES INVOLVED. AT NO ADDITIONAL COST TO THE OWNER.
- 3.25 DO NOT CUT, CHANNEL, CHASE OR DRILL MASONRY OR TILE; OR CUT, DRILL OR WELD STRUCTURAL MEMBERS OF THE BUILDING, ETC., WITHOUT FIRST OBTAINING ARCHITECT'S PERMISSION, IF PERMISSION IS GRANTED, PERFORM THIS WORK IN A MANNER APPROVED BY THE ARCHITECT.
- 3.26 CAULKING & WATERPROOFING: CAULK AROUND ALL PIPES, ETC. TO PREVENT AIR AND MOISTURE LEAKAGE WITH COMPOUND APPROVED BY ARCHITECT/ENGINEER.
- 3.27 SEAL AROUND ALL PIPES AND DUCTS WITH FIREPROOF CAULKING OR GROUT WHERE THEY PASS THROUGH FLOORS, FIREMALLS, AND SHAFTS.
- 3.28 PROVIDE FLASHINGS WHERE ALL PIPES AND DUCTS PIERCE OUTSIDE WALLS OR ROOF AS NECESSARY TO PREVENT MOISTURE ENTRY.
- 3.29 INSERTS, SLEEVES & BLOCKOUTS: FURNISH AND INSTALL, PRIOR TO CONCRETE POURING OR OTHER CONSTRUCTION, INSERTS, SLEEVES, OR BLOCKOUTS IN WALLS, FLOOR SLABS, ROOFS AND PARTITIONS FOR PASSAGE OF ALL WORK INSTALLED WIDDER THIS DIVISION.
- 3.30 PROVIDE GALVANIZED IRON AND STEEL PIPE SLEEVES FOR IRON PIPES. USE COPPER SLEEVES FOR COPPER PIPES. PROVIDE WOOD OR STEEL BLOCKOUTS FOR LARGE OPENINGS. SECURE ALL SUCH ITEMS FIRMLY IN
- 3.31 VIBBATION-ASSORBING MOUNTINGS AND CONNECTIONS. SOLATE DECY ITEM OF EDURADATI WITH MOVING PARTS ROTH THE BILLIONS GENERALE ASSOCIATION AND COMBINETS, OR DISTORTS ATTACHED THERETO. UNLESS OTHERWISE. BIOCASED, UNITS SOLATING EQUIPMENT FROM STRUCTURE SHALL BE PROPERLY DESIGNED SPRING—THE SOLATIONS.
- 3.32 BELT DRIVE GUARDS: PROVIDE BELT DRIVE GUARDS FOR ALL EQUIPMENT AND SAFETY SCREENS ON EXPOSED FAN INILITYS

- 3.33 VALVES: NIBCO BALL VALVES OR EQUAL.
- VALVES: NEGO BALL VALVES OF ELAM.

 AR CONDITIONING UNITS:

 FOR EQUIPMENT SCHEDULE WITH CAPACITY AS INDICATED, UNIT SHALL BE AN ARR-COOLED CONDENSING UNIT,

 FOR EQUIPMENT SCHEDULE WITH CAPACITY AS INDICATED, UNIT SHALL BE AN ARR-COOLED CONDENSING UNIT,

 ARR HANDLING BUT WITH DAY COOLS, FILTER MIXING

 BOX AND VIBRATION ISOLATORS, TOTAL CAPACITY OF EACH UNIT SHALL BE AS SCHEDULED ON THE DRAWNING.

 BOX AND VIBRATION ISOLATORS, TOTAL CAPACITY OF EACH UNIT SHALL BE AS SCHEDULED ON THE DRAWNING.
- 3.35 CONTROLS THE COOLING SYSTEM SHALL BE PROTECTED WITH HIGH PRESSURE STAT, LOW PRESSURE STATS, LOSS-OF-CHARGE PROTECTION, INDOOR COIL FREEZESTATS, CURRENT AND TEMPERATURE SENSITIVE OVERLOAD DEVICES.
- 3.36 PROVIDE PRODUCTS OF COMBUSTION DETECTOR IN SUPPLY AND RETURN AR IN ALL UNITS 2000 CFM OR OVER TO SHIT DOWN UNIT ON ALARM CONDITION.
 3.37 EMBUST PINS: FAMS SHILL MEET CHRACITIES SCHEDULED AND NOT EXCEED SOUND LIMITATIONS SPECIFIED.
- 3.38 GRILLES & REGISTERS: SCHEDULED ON DRAWINGS. TITUS OR EQUAL.
- 3.36 ORLES & REGISTERS: SCHEDULED ON DRAWNOS, THUS OR EQUAL

 3.79 DOUT LINES SHALL BE CLOSE CILL EASTONING DOUT LINER, ON PREFICASS DUCT LINER ALLOWED) METHOR

 BE HAZARD RATING REQUERIENTS FOR RISULATION, INSTALL WHITH MINIMANIA 10° DUCT LENGTH FROM FAIS,

 3.40 DUCTHONS: VISETH META, DUCTHONS SHALL BE STRENGTHED OF A QUARTEED STEEL. DUCT LINES

 ACQUIRATELY TO THE DIMESIONS INCLEDIT AND SHALL BE STRENGTH AND SHADON IN THE INSIDE WITH

 AND ALLOWED STRENGTH AND ADMINISTRATION OF A CONTROLLED AND SHADON OF A CONTROLLED AND ADMINISTRATION O
- OUT TO AR COULTS.

 ARE COLLEGE AND ARE COLLEGE AND ARE COLLEGE AND AREA CO
- 3.42 PROVIDE NON-COMBUSTIBLE APPARATUS FLEXIBLE CONNECTIONS OF NOT LESS THAN 15 OUNCE WOVEN FABRIC APPROVED MATERIAL WHERE SHEET METAL DUCTS ARE CONNECTED TO FANS OR OTHER MOVING EQUIPMENT. THE FLEXIBLE CONNECTIONS SHALL BE SECURELY FASTENED.
- 3.43 DUCT LINER INSULATION INSULATE INTERIOR SURFACES OF ALL SUPPLY DUCTS FROM AIR CONDITIONING UNIT SUPPLY FANS TO AIR OUTLETS AND INDICATED RETURN OR EXHAUST DUCTS WITH ACOUSTICAL MATERIAL.
- 3.44 APPLY AND SECURE INSULATION AS RECOMMENDED BY MANUFACTURER AND AS APPROVED. ANY LOOSENING OF INSULATION LINER WILL REQUIRE REMOVAL AND REINSTALLATION OF ALL DUCT WORK, AT NO EXTRA COST.
- INCREASE INDICATED DUCT SIZES TO COMPENSATE FOR THICKNESS OF DUCT LINER INSULATION.
 SEALING: ALL TRANSVERSE JOINTS ON THE LOW PRESSURE SYSTEM SHALL BE STALED WITH "HARDCAST" DUCT
 THEF SYSTEM APPLED IN ACCORDANCE WITH MANUFACTURERS'S RECOMMENDATIONS OR OTHER APPROVED SYSTEM.
- 3.46 IN LIEU OF RECTANGULAR LINED DUCT, RECTANGULAR DUCT INSULATED WITH 1" VAPOR BARRIER DUCT WRAP OR ROUND DUCT OF EQUIVALENT CROSS SECTIONAL AREA AND INSULATED WITH 1" VAPOR BARRIER INSULATION, MAY BE USED. ALL SUPPLY DUCTS SHALL BE LINED OR RETERNALLY INSULATED.
- INSOLATION, WAY BE USED. ALL SUPPLY DUCTO SHALL BE LINED ON EXTERNALLY ROUGHELY, OF REPORT OF THE PROPERTY OF
- DESCRIPTION: PERFORM TESTING AND BALANCING IN ACCORDANCE WITH THE PROCEDURE OF THE ASSOCIATED AIR BALANCE COUNCIL'S "NATIONAL STANDARDS FOR FIELD MEASUREMENTS AND INSTRUMENTATION TOTAL SYSTEM BALANCE."
- 3.49 USE ACCURATE INSTRUMENTS FOR BALANCING AIR SYSTEMS THAT HAVE BEEN CAUBRATED WITHIN 6 MONTHS PRIOR TO BALANCING. TYPES, SERIAL INJURIERS, AND DATE OF CAUBRATION OF ALL INSTRUMENTS SHALL BE LISTED IN THE FINAL AIR BALANCE REPORTS.
- 3.50 MICE ARE QUARTITY MESSAGEMENTS IN MAIN AND REMAND DUSTS OF PROT TIME TRANSPSS OF THE ENTIRE PROSS SECTION. AREA OF THE COURT, COURTS MAYON EXCOURTS OF TOO ON MORE TEST FREW MINITE. SHALL BE MESSAGED WITH INCLINED MANOWITHES (DRAFT GOADE) OR MORDHELIC CAUSES. DUSTS HAVING VECTORIES OF LESS THAN 100 TO P. FER MINITES SHALL BE MESSAGED WITH MOROMANIMETES, MOOF QUARES SHALLD WITH SMAP—IN PULIS AFTER ARE BANGE IS COMPLETE. OUTLET AND INSET ARE QUARTITIES SHALL BE DETERMINED BY AN APPROVED METHOD.
- 3.51 TOTAL AIR QUANTITIES SHALL BE OBTAINED BY ADJUSTMENT OF FAN SPEEDS. THE BALANCING CONTRACTOR SHALL FURNISH AND INSTALL ANY REQUIRED FAN DRIVE CHANGES AS PART OF THIS CONTRACT.
- 3.52 VOLUME ADJUSTERS MAY BE USED TO BALANCE AIR QUANTITIES AT OUTLETS AND INLETS PROVIDING FINAL ADJUSTMENTS ARE MINOR AND DO NOT PRODUCE OBJECTIONABLE DRAFTS OR EXCESSIVE SOUND LEVELS.
- 3.53 CERTIFIED BALANCE REPORTS: THREE (3) COPIES OF THE AIR AND WATER BALANCE REPORT, CERTIFIED BY THE BALANCING FIRM, SHALL BE SUBMITTED TO THE ARCHITECT/DISONEERS SUSPO. (7) DAYS PROOR TO FINAL ACCEPTANCE OF THE PROJECT, THE REPORT SHALL INCLUE ALL AR AND WATER BALANCE DATE AND THREAT THREE COUNTRIENT TEST DATA LISTED BELOW, AND OTHER DATA AS REQUIRED BY THE "NATIONAL STRAWARD FOR FIELD MISSIAGENESTS AND INSTRUMENTATION".
- 3.54 A.C. UNIT: CFM, STATIC PRESSURE, MOTOR HP, RPM, AND AMPS, PERCENT OF OUTSIDE AIR (OR CFM AS APPLICABLE), FAN RPM, FAN BHP, INLET AND OUTLET DRY AND WET BULB TEMPERATURE, FAN DRIVE TYPE AND SIZE, WATER FLOW.
- 3.55 INDIVIDUAL OUTLET AND INLET TEST RESULTS: OUTLET AND INLET IDENTIFICATION (LOCATION AND NUMBER DESIGNATION).
- FOLLOWING FINAL ACCEPTANCE OF THE SYSTEM BULANCE BY THE OWNER, THE CONTRACTOR SHALL PERMANENTLY MARK THE SETTINGS OF ALL VALVES, SPLITTERS, DAMPERS, AND OTHER ADJUSTMENT DEVICES SO THAT ADJUSTMENT CAN BE RESTORED IF DISTURBED AT ANY TIME. DEVICES SHALL NOT BE MARKED BEFORE FINAL ACCEPTANCE.
- 3.57 NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE ARCHITECT, AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER DIRECTED BY HIM.
- 3.58 PROVIDE WEATHER-PROOF FLASHING AT ALL DUCT, PIPE, ETC. MECHANICAL PENETRATIONS THROUGH THE BUILDING WALLS AND ROOF. FLASHING SHALL BE DESIGNED AND INSTALLED PER SMACON. AND SHALL BE GURBANTEED WEATHER PROOF FOR THE DURATION OF THE GURBANTEE.
- 1. FURNISH AND INSTALL AT LOCATION SHOWN ON PLANS FIRE/SMOKE DAMPERS MEETING OR EXCEEDING THE I. PURISH MO INSTALL AT LOCATION SHOWN OF PLANS FREZ SHOKE DUMPERS MEETING OF EXCEEDING THE FOLLOWING SPECIALORING. FRAME SHALL BE A MINIMAL OF 16 CAUSE QUANTIZED STEEL FORWARD BIND A ALE FOLLOWING SHALL BE A MINIMAL CHARLES AND A SHALL BE A SHALL BE ASSEMBLED SHALL BE SHALL BE ASSEMBLED FOR A SHALL BE ASSEMBLED SHA
- EACH COMBINATION FIRE/SMOKE DAMPER SHALL BE RATED FOR 1.5 HOURS UNDER UL STANDARD 555 AND SHALL FURTHER BE CLASSIFIED BY UL AS A LEAKAGE RATED DAMPER FOR USE IN SMOKE CONTROL SYSTEMS UNDER UL 555S AND BEAR THE UL LABELS FOR BOTH UL 555 AND UL 555S. FIRE/SMOKE DAMPERS IN TUNNEL CORRIDOR SHALL BE UL LISTED FOR TUNNEL CORRIDOR CONSTRUCTION
- COMBOOK SWALL BE UL USIDE FOR TUMBLE UNDORSON CONSIDERIOR. THE DAMPERS AND THEIR ACTIVATIONS S. IN ACCIDING TO THE LEWAGE RINNING AREADY SPECIFIED HEREIN, THE DAMPERS AND THEIR ACTIVATIONS SHAPPOPRINET (20 VOIL ELECTRIC ACTUATIONS SHALL BE INSTALLED BY THE DAMPER MANUFACTURER AT THE TIME OF DAMPER PARRICATION. DAMPER AND ACTUATION SHALL BE INSTALLED BY THE DAMPER MANUFACTURER AT HIGH THE STALL APPLICABLE UL USS AND IL SESSE GOLDING SHALL BE INSTALLED AS A SHAPE DETITY WHICH THEST ALL APPLICABLE UL USS AND IL SESSE GOLDING FOR BOTH DAMPERS AND ACTUATION WHICH COST OFFICE AND ACTUATION OF THE PROPERTY OF THE STANDARD SHAPE AND ACTUATION OF THE PROPERTY OF THE STANDARD SHAPE AND ACTUATION OF THE PROPERTY OF THE STANDARD SHAPE AND ACTUATION OF THE SHAPE AND ACTUATION OF THE STANDARD SHAPE AND ACTUATION OF THE STANDARD SHAPE AND ACTUATION OF THE SHAPE AND ACTUATION OF THE
- IN FIRE ALARM CONTRACTOR SHALL PROVIDE ALL NECESSARY SWITCHES AND RELAYS ETC. TO INTERFACE DAMPER BUILDING FIRE ALARM AND CONTROL SYSTEM AS REQUIRED.
- 5. IN SYSTEMS REQUIRING A SMOKE CONTROL SYSTEM, PROVIDE REMOTE SENSING OF DAMPER POSITION AND DAMPER OVERRIDE OF DAMPER CLOSINE TO PERMIT CONTROLLED OPERATION IN A DYNAMIC SMOKE MANGGENERY STSTEM. DEVOE SHALL BE RUSKEN MODEL TS 150 PIRE STATE OR APPROVED.

 6. COMBINITION SUNCE/PIRE DAMPERS SHALL BE MANUFACTURED BY SAFEAR, RUSKIN, GREENHECK, ARE BALANCE, NATIONAL CONTROLLED ARE AND PREFCO.

ABOSSEIN ENGINEERING

> L.L.C MECHANICAL - ELECTRICAL LEED - PLUMBING -FIRE PROTECTION

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TO HAMPTON SUITES

FICATIONS SPECI

Revisions

√2 02/03/2024 HEAT TRACING ADD. 8 02/14/2024 ELEC REVISIONS

Job No.: 219007 Date: 01/03/2024

M7.0

City of Puyallup ISSUED PERMIT Building Planning Engineering Public Works