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Addendum:

Date: 5/13/2025

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Project: FWCS HPB Natatorium HVAC Improvements

Comm #: 24634

The following items shall be incorporated into the specifications and drawings and are considered to be integral to the bid documents for the project. Acknowledgement of receipt of this addendum is required on the bid form.

Item #1: General Clarifications.

- **A.** The Contractor/Supplier acknowledges that all pricing submitted in bid response is firm and includes any and all costs associated with current and potential tariffs, duties, or import/export restrictions. FWCS will not accept any price adjustments, change orders, or additional charges related to tariff increases, trade restrictions, or other governmental actions affecting material or supply costs. The Contractor/Supplier assumes all risk for such costs and shall not be entitled to additional compensation for any tariff-related impacts.
- **B.** Salvaged brick shall be cleaned, palletized, and organized and delivered to Owner.
- **C.** Existing light fixtures to be removed shall be removed and disposed of properly.

Item #2: Specification Section 000133, "Liquidated Damages."

A. Revise Substantial Completion Date to be May 29, 2026.

Item #3: Drawing Sheet A201, "Demolition Plan, Floor Plan, Window Elevation Detail, & Notes."

A. Revise glazing details. Refer to attached drawing revision dated 5/13/2025.

Item #4: Drawing Sheet M001, "Mechanical Information Sheet."

- **A.** Louver Schedule: Revise louvers L-1 and L-2 to be louvers L-1, L-2, L-3, and L-4; revise louvers to be 4" deep in lieu of 6" deep; revise Remark #2 to include glazing adapter in lieu of extended sill. Refer to attached drawing revision dated 5/13/2025.
- **B.** Natatorium Air Handler Schedule: Revise selection information. Refer to attached drawing revision dated 5/13/2025.
- **C.** Condensing Unit Schedule: Revise selection information. Refer to attached drawing revision dated 5/13/2025.

Item #5: Drawing Sheet M301, "Enlarged Mechanical Plan and Sections."

A. Revise louvers L-1 and L-2 to be louvers L-1, L-2, L-3, and L-4. Refer to attached drawing revision dated 5/13/2025.

Item #6: Drawing Sheet M302, "Enlarged Mechanical Plan and Sections."

A. Revise louvers L-1 and L-2 to be louvers L-1, L-2, L-3, and L-4. Revise Plan Note #10. Remove section view reference. Refer to attached drawing revision dated 5/13/2025.

Item #7: Drawing Sheet M401, "Mechanical Details."

A. Add Louver Plenum Detail. Revise AHU-1 Detail. Refer to attached drawing revision dated 5/13/2025.

Item #8: Drawing Sheet E401, "Electrical Details and Schedules"

A. See revised circuit information for AHU-1 and ACCU-1 in revised Equipment Schedule and Panel Schedules on attached revised sheet E401 dated 5-13-2025.

 \sim WALL SLEEVE/PLENUM SYSTEM ASSEMBLY.



48 0

16

SCALE: 1/16" = 1'-0"

32

8 16

SCALE: 3/32" = 1'-0"

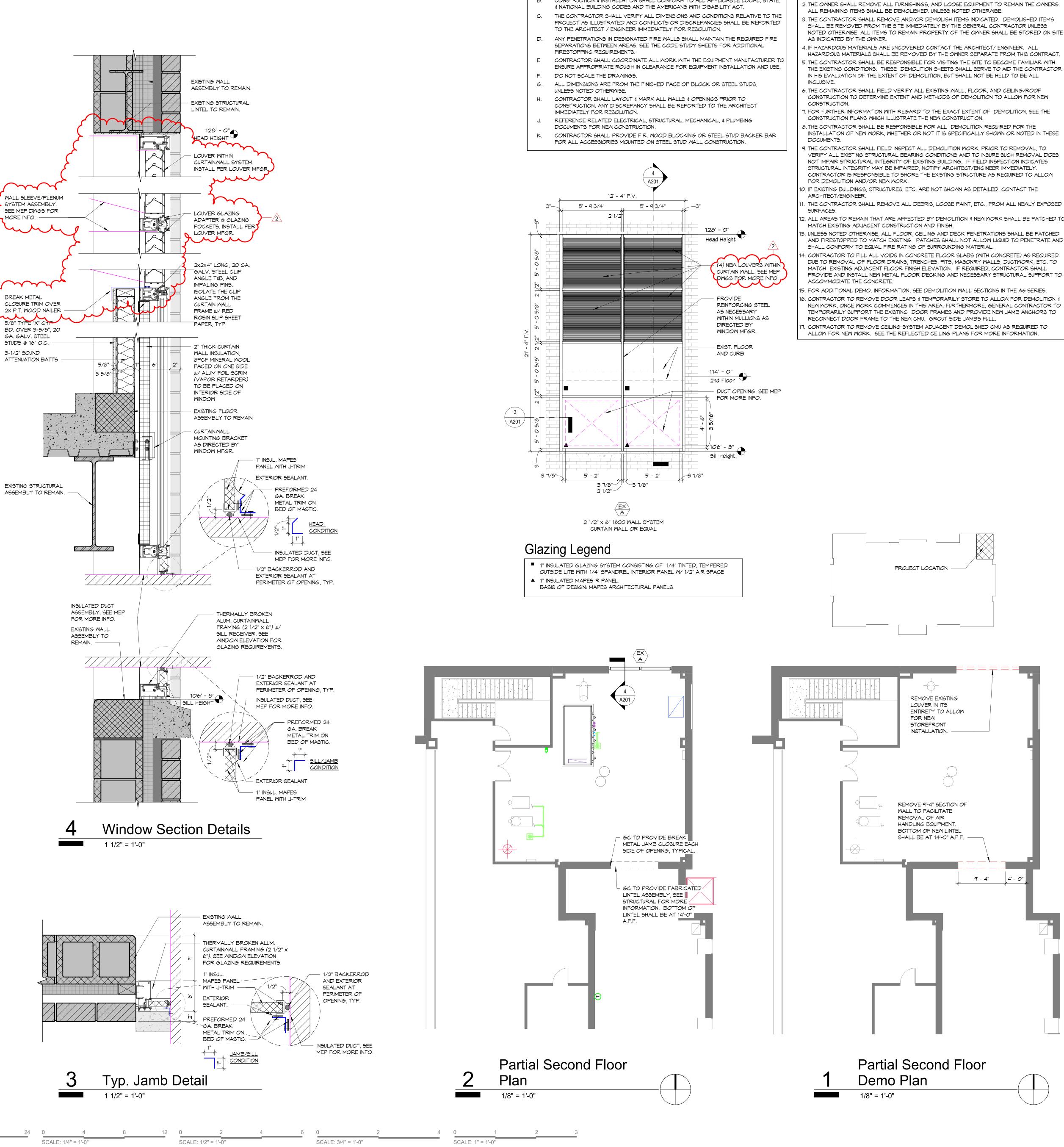
24 32 0

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

16

24



FLOOR PLAN GENERAL NOTES

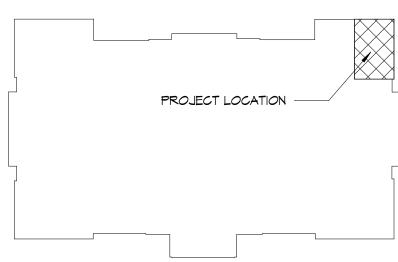
A. CONTRACTOR TO PROVIDE ALL NECESSARY PERMITS & FEES REQUIRED TO

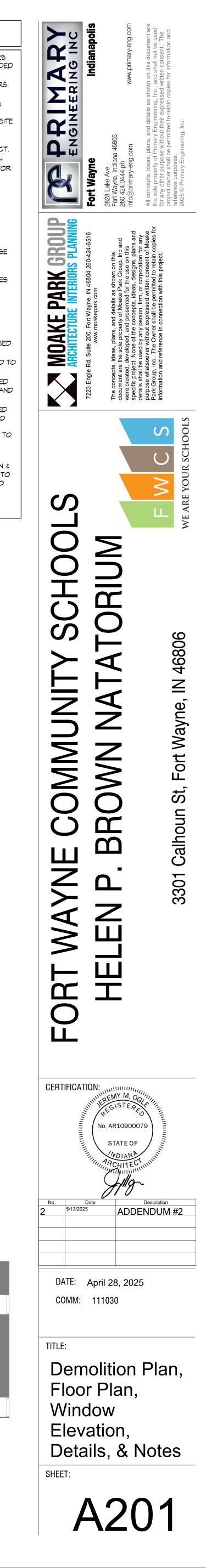
- COMPLETE THE PROJECT. B. CONSTRUCTION & INSTALLATION SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE

GENERAL DEMOLITION NOTES:

- ALL MATERIALS INDICATED AS DASHED AND HATCHED ARE TO BE DEMOLISHED. THIS INCLUDES ALL MATERIALS AND FINISHES NOT SPECIFICALLY CALLED OUT BUT PERTAINING TO THE INTENDED SCOPE.
- SHALL BE REMOVED FROM THE SITE IMMEDIATELY BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE. ALL ITEMS TO REMAIN PROPERTY OF THE OWNER SHALL BE STORED ON SITE
- HAZARDOUS MATERIALS SHALL BE REMOVED BY THE OWNER SEPARATE FROM THIS CONTRACT. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. THESE DEMOLITION SHEETS SHALL SERVE TO AID THE CONTRACTOR
- 6. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WALL, FLOOR, AND CEILING/ROOF CONSTRUCTION TO DETERMINE EXTENT AND METHODS OF DEMOLITION TO ALLOW FOR NEW
- 1. FOR FURTHER INFORMATION WITH REGARD TO THE EXACT EXTENT OF DEMOLITION, SEE THE
- INSTALLATION OF NEW WORK, WHETHER OR NOT IT IS SPECIFICALLY SHOWN OR NOTED IN THESE
- VERIFY ALL EXISTING STRUCTURAL BEARING CONDITIONS AND TO INSURE SUCH REMOVAL DOES NOT IMPAIR STRUCTURAL INTEGRITY OF EXISTING BUILDING. IF FIELD INSPECTION INDICATES CONTRACTOR IS RESPONSIBLE TO SHORE THE EXISTING STRUCTURE AS REQUIRED TO ALLOW

- AND FIRESTOPPED TO MATCH EXISTING. PATCHES SHALL NOT ALLOW LIQUID TO PENETRATE AND
- DUE TO REMOVAL OF FLOOR DRAINS, TRENCHES, PITS, MASONRY WALLS, DUCTWORK, ETC. TO MATCH EXISTING ADJACENT FLOOR FINISH ELEVATION. IF REQUIRED, CONTRACTOR SHALL PROVIDE AND INSTALL NEW METAL FLOOR DECKING AND NECESSARY STRUCTURAL SUPPORT TO
- 6. CONTRACTOR TO REMOVE DOOR LEAFS & TEMPORARILY STORE TO ALLOW FOR DEMOLITION & NEW WORK, ONCE WORK COMMENCES IN THIS AREA. FURTHERMORE, GENERAL CONTRACTOR TO TEMPORARILY SUPPORT THE EXISTING DOOR FRAMES AND PROVIDE NEW JAMB ANCHORS TO
- . CONTRACTOR TO REMOVE CEILING SYSTEM ADJACENT DEMOLISHED CMU AS REQUIRED TO





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REMARKS:														EXHAUST FAN AIRFLOW (CFM)	35.000	
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2. PROVIDE AND INS														ESP (IN W.C.)	2.0	
4. PROVIDE AND INS														DIRTY FILTER SP (IN W.C.) FILTER TYPE	0.57 2" WASHABLE ALUMINUM	
5. PROVIDE AND INS														FAN RPM	1771	
6. PROVIDE AND INS				FS F										MOTOR SYNCH RPM	1800	
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خ]	FAN QUANTITY	3	
		<u>д т т</u>		A A A A				A . A					7	DRIVE TYPE	DIRECT	
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TA	AG MFR.	MODEL		TRIM MO	ODEL		TRIM FINISH	TRIM TYPE	WASTE	VENT	CW HW	REMARKS		TOTAL CAP (MBH)	2119	
FS	S-1 SIOUX CHI	F 860		VC STRAINER. ALL			PVC	ROUND				1	3	SENS CAP (MBH)	855	
	3-1 3100X CHI	<u>- 600</u>	I/2 OFEN F	VC STRAINER, ALC			FVG	ROUND	-	-		1	}	EAT DB/WB (DEG F)	83.9 / 76.8 57.5 / 57.3	
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	I ARKS: .L FLOOR DRAINS S												4	FPI	10	
	L FLOOR DRAINS S	HALL DE SUFFLI		L THAF SEAL TO F		ORATION.							}	FACE VELOCITY (FPM) APD (IN W.C.)	<u> </u>	
NOTE													{	REFRIGERANT	R454B	
1. "-+	H" DESIGNATES HA	NDICAP ACCESS	BIBLE FIXTURES.										3	CIRCUITS	4	
													_ { ا	HOT GAS REHEAT AIRFLOW (CFM)	50,000	
													Z	TOTAL CAP (MBH)	1139	
											_]	, (EAT DB/WB (DEG F)	67.3 / 63.4	
			GE	ENERAL		HANICA	AL EQU	IPMENT	SCHE	EDUL	E		4	LAT DB/WB (DEG F) ROWS	88.3 / 70.1	
			TAG: HT-1										}	FPI	12	
			YPE: SELF-REGUL/ WFR: HEAT TRACE		HEAT TAPE									FACE VELOCITY (FPM) PD (IN W.C.)	0.38	
		MOI	DEL: FSR											REFRIGERANT	R454B	
				, ,				-					3	CIRCUITS	4	
		KEMAR	RKS: 1. PROVIDE	AND INSTALL WITF			PLASTIC JACKE	I					}	INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM)	50,000	
													(FURNACE QUANTITY	6	
													ح	INPUT CAP (MBH, EA)	400	
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							BOUD	EDULE					{	LAT (DEG F)	93.9	
		_												FUEL	NATURAL GAS	
	(\sim						HICKNESS WATE			hut		\sum	TOTAL TURNDOWN FUEL PRESSURE	30 TO 1 6-14" WC	
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	Č	L-3		EHH-401 70x6			-	4 99		1 70% KYNAF		1, 2, 3	X	VOLTAGE/PHASE MCA	460/3 484.5	
	Č	L-4		EHH-401 70x6	60 12.6	i -	-	4 99	.4 2.0 mil	I 70% KYNAF	R INTAKE	1, 2, 3	X	MOP	600	
	}	1. REFEF	(S: R TO ARCHITECTUF	RAL PLANS FOR M	ORE INFORMA	ATION.							Q	REMARKS:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,	
	<u>_1</u> {	2. PROVI	IDE AND INSTALL W	VITH CHANNEL FR.									Ď	REMARKS:	15 16	
	Ç		R SHALL BE SELEC										3		WALL ALUMINUM CONSTRUCTION WITH MINIMUM R-13 INSULATION,	SMACNA LEAKAGE CLASS 5.0, MAXIMUM L/250
	Č		RIOR TO ORDERING	,					AT LOUVERS	MUST BE IN	NSTALLED IN.		8		ATIC PRESSURE, AND DESIGNED FOR OUTDOOR INSTALLATION.	
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					- 0					- 0			ح		LE POINT ELECTRICAL POWER CONNECTION AND 65 KA SCCR.	
			[0000-	0011-]	<u>ک</u>		IDUAL PACKAGED VARIABLE SPEED DRIVES FOR EACH SUPPLY AND	EXHAUST FAN. FANS SHALL BE CONFIGURED
					ווָע	FFUSE		GRILLE	SCHE	DULE			{	6. PROVIDE AND INSTALL WITH ALUM		
								ROW MAX	MAX APD THE		,)		AGED CONTROLS AND ALL ASSOCIATED ACTUATORS, DAMPERS, VAI	VES, SENSORS, CONTROLLERS, CABLING ETC.
			TAG	MFR.	MODEL	(IN)		TTERN CFM		ROW MAX FT) NC		REMARKS	4			
														8. PROVIDE AND INSTALL WITH BACN 9. PROVIDE AND INSTALL WITH EXTER	IET MSTP INTERFACE. RNAL HEATED AND VENTILATED VSD ENCLOSURE.	
			D-1	TITUS	300FL	22x6	24x8 DB	L. DEFL. 616	0.117 3	32 30	ALUMINUM	1, 2	ζ		TORY WIRED NEMA 3R ELECTRICAL DISCONNECT	
			EG-1	1 TITUS	350FL	18x6	20x8 35 DI	EG. DEFL. 252	0.032	- 10	ALUMINUM	1, 2			DETAILS FOR MODULE CONFIGURATIONS.	
													}		IM EFFICIENCY WITH CLASS F INSULATION AND INTEGRAL SHAFT GR RECT FIRED FURNACES WITH 409SS HEAT EXCHANGER.	
				ARKS: DLOR SHALL BE WH	HITE								{	14. PROVIDE AND INSTALL WITH COA	TED STRUCTURAL STEEL BASE AND WELDED ALUMINUM STRUCTUR	
				OVIDE AND INSTAL		IE FOR SURFACI	E INSTALLATION	۱.					(SIDE AIR AND EXHAUST AIR WEATHER HOOD WITH ALUMINUM BIRD S SIDE AIR AND EXHAUST AIR INSULATED LOW LEAKAGE CONTROL DA	
													ک ر ا		OBE AN AND EXCLOSE AN INSULATED LOW LEARAGE CONTROL DA	vn 2/10.
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		WINTER	23,000	0.45	82.0 / 42.4	45.7 / 100	18,000		0 / -10.9 44.0 / 2	,] (SUPPLY FAN		
											4	AIRFLOW (CFM)	50,000	
	MOOTH ALUMINUM C	CROSS FLOW PLATES WIT	H ALUMINUM FRAME	E AND END PLA	ATES.						1	OUTSIDE AIR (CFM) TSP (IN W.C.)	5.14	
E AND INSTALL WITH IAC											ζ	ESP (IN W.C.)	2.0	
											3	DIRTY FILTER SP (IN W.C.)	0.24	
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ROVIDE AND INSTALL												ESP (IN W.C.)	2.0	
												DIRTY FILTER SP (IN W.C.) FILTER TYPE	0.57 2" WASHABLE ALUMINUM	
ROVIDE AND INSTALL	- WITH CONVENIENC	E OUTLET.										FILTER TYPE	1771	
ROVIDE AND INSTALL			=									MOTOR SYNCH RPM	1800	
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_											_ <b>`</b>	MOTOR (BHP, EA)	10.2	
			PLUMB		IXTIIR	E SCH					(	ELECTRICAL (V / PH) MODULATION	460/3 VSD	
											4	DX COIL	VSD	
											\ \ \	AIRFLOW (CFM)	30,000	
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FS-1	SIOUX CHIEF	860 1/2 OPEN	PVC STRAINER, ALL		IE STRAINER	PVC	ROUND			1	-  \ <u></u>	EAT DB/WB (DEG F) LAT DB/WB (DEG F)	83.9 / 76.8 57.5 / 57.3	
												ROWS	5	
REMARKS:	<i>i</i> :	L								-	3	FPI	10	
1. ALL FLOC	OR DRAINS SHALL BE	E SUPPLIED WITH INTERN	IAL TRAP SEAL TO PR	REVENT EVAPO	ORATION.						1	FACE VELOCITY (FPM)	500	
NOTES:												APD (IN W.C.)	0.63	
	SIGNATES HANDICAP	PACCESSIBLE FIXTURES.									1	REFRIGERANT CIRCUITS	R454B	
											_	HOT GAS REHEAT	· · · · · · · · · · · · · · · · · · ·	
											(	AIRFLOW (CFM)	50,000	
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		G	ENERAL								ר צ ו	LAT DB/WB (DEG F)	88.3 / 70.1	
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		TYPE: SELF-REGU MFR: HEAT TRAC	ULATING ELECTRIC H	HEAT TAPE								FACE VELOCITY (FPM)	12 674 0.38	
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	PER	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P	CE ER FOOT (40 W/M), 2	277 V / 1 PH, 10			-					FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS	674 0.38	
	PER	MFR: HEAT TRAC MODEL: FSR	CE ER FOOT (40 W/M), 2	277 V / 1 PH, 10			т					FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE	674 0.38 R454B 4	
	PER	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P	CE ER FOOT (40 W/M), 2	277 V / 1 PH, 10			т					FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS	674 0.38	
	PER	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P	CE ER FOOT (40 W/M), 2	277 V / 1 PH, 10			T					FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM)	674 0.38 R454B 4	
	PEF	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P	CE ER FOOT (40 W/M), 2	277 V / 1 PH, 10			T					FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA)	674       0.38       R454B       4       50,000       6       400       324	
	PEF	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P	CE ER FOOT (40 W/M), 2	277 V / 1 PH, 10 H METAL BRAID	D AND THERMO	PLASTIC JACKE						FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) EAT (DEG F)	674       0.38       R454B       4       50,000       6       400       324       57.9	
	PEF	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P	CE ER FOOT (40 W/M), 2	277 V / 1 PH, 10 H METAL BRAID	D AND THERMO	PLASTIC JACKE	EDULE					FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA)	674       0.38       R454B       4       50,000       6       400       324       57.9       93.9	
	PEF	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH	277 V / 1 PH, 10 H METAL BRAID		PLASTIC JACKE	EDULE					FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) EAT (DEG F) LAT (DEG F)	674       0.38       R454B       4       50,000       6       400       324       57.9	
	PEF	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH	277 V / 1 PH, 10 H METAL BRAID	LOUVE	PLASTIC JACKE	EDULE					FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) EAT (DEG F) LAT (DEG F) FUEL TOTAL TURNDOWN FUEL PRESSURE	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC	
	PEF	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF I) (SF)		PLASTIC JACKE	EDULE		SH SERVIC	E REMARKS		FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) EAT (DEG F) LAT (DEG F) FUEL TOTAL TURNDOWN FUEL PRESSURE PD (IN W.C.)	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1	
	PEF	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL EHH-401 FACE (IN EHH-401 70x6	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF I) (SF) 60 12.6 60 12.6	LOUVE	PLASTIC JACKE	HICKNESS (IN) 4 90 4 90	(**)         FINI:           0.4         2.0 mil 70%           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE	E REMARKS 1, 2, 3 1, 2, 3		FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) EAT (DEG F) LAT (DEG F) FUEL TOTAL TURNDOWN FUEL PRESSURE	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC	
	PEF	MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL EHH-401 EHH-401 70x6 EHH-401 70x6	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF I) (SF) 60 12.6 60 12.6 60 12.6	LOUVE REA AIRFLOW (CFM) - -	PLASTIC JACKE R SCH VELOCITY (FPM) -	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99	(**)         FINIS           0.4         2.0 mil 70%           0.4         2.0 mil 70%           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E         REMARKS           1, 2, 3         1, 2, 3           1, 2, 3         1, 2, 3		FACE VELOCITY (FPM)PD (IN W.C.)PD (IN W.C.)REFRIGERANTCIRCUITSINDIRECT GAS-FIRED FURNACEAIRFLOW (CFM)FURNACE QUANTITYINPUT CAP (MBH, EA)OUTPUT CAP (MBH, EA)OUTPUT CAP (MBH, EA)LAT (DEG F)LAT (DEG F)FUELTOTAL TURNDOWNFUEL PRESSUREPD (IN W.C.)ELECTRICAL	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32	
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL EHH-401 EHH-401 70x6 EHH-401 70x6	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF I) (SF) 60 12.6 60 12.6 60 12.6	LOUVE REA AIRFLOW (CFM) - -	PLASTIC JACKE R SCH VELOCITY (FPM) -	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99	(**)         FINI:           0.4         2.0 mil 70%           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3		FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) EAT (DEG F) LAT (DEG F) FUEL TOTAL TURNDOWN FUEL PRESSURE PD (IN W.C.) ELECTRICAL VOLTAGE/PHASE MCA MOP	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600	
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-4 GREENHECK	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF I) (SF) 60 12.6 60 12.6 60 12.6 60 12.6	LOUVE	PLASTIC JACKE R SCH VELOCITY (FPM) -	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99	(**)         FINIS           0.4         2.0 mil 70%           0.4         2.0 mil 70%           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E         REMARKS           1, 2, 3         1, 2, 3           1, 2, 3         1, 2, 3		FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) EAT (DEG F) LAT (DEG F) FUEL TOTAL TURNDOWN FUEL PRESSURE PD (IN W.C.) ELECTRICAL VOLTAGE/PHASE MCA MOP	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,	
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTAL	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 CHH-401 70x6 EHH-401 70x6	277 V / 1 PH, 10 H METAL BRAIE SIZE FREE AF I) (SF) 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6	LOUVE REA AIRFLOW (CFM) 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	PLASTIC JACKE ERSCH VELOCITY (FPM) - - - - -	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99	(**)         FINIS           0.4         2.0 mil 70%           0.4         2.0 mil 70%           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E         REMARKS           1, 2, 3         1, 2, 3           1, 2, 3         1, 2, 3	accession in the second	FACE VELOCITY (FPM) PD (IN W.C.) REFRIGERANT CIRCUITS INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM) FURNACE QUANTITY INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA) EAT (DEG F) LAT (DEG F) FUEL TOTAL TURNDOWN FUEL PRESSURE PD (IN W.C.) ELECTRICAL VOLTAGE/PHASE MCA MOP	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600	
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-3 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTALL 3. COLOR SHALL BE SEL	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 CURAL PLANS FOR MOL WITH CHANNEL FR. ECTED BY OWNER.	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF I) (SF) 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 0RE INFORMA AME AND GLA	LOUVE REA AIRFLOW (CFM) - - - - - - - - - - - - - - - - - - -	PLASTIC JACKE R SCH VELOCITY (FPM) - - - -	EDULE           HICKNESS         WATE           (IN)         EFF           4         96           4         96           4         96           4         96           4         96           4         96	(**)         FINIS           0.4         2.0 mil 70%           0.4         2.0 mil 70%           0.4         2.0 mil 70%           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3		FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         WOLTAGE/PHASE         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE V	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16	,
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-3 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTALI 3. COLOR SHALL BE SEL NOTE: PRIOR TO ORDER	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 CURAL PLANS FOR MOL WITH CHANNEL FR. ECTED BY OWNER.	277 V / 1 PH, 10 H METAL BRAIE SIZE FREE AF 1) (SF) 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 00 10 12.6 00 10 10 10 10 100 100 100 10000000000	D AND THERMO AIRFLOW (CFM) CFM) CFM CFM CFM CFM CFM CFM CFM CFM	PLASTIC JACKE R SCH VELOCITY (FPM) - - - RIFY ANY EXIST	HICKNESS (IN) 4 99 4 99 4 99 4 99 4 99 10 90 10 90 10 10 10 10 10 10 10 10 10 10 10 10 10	(**)         FINIS           0.4         2.0 mil 70%           0.4         2.0 mil 70%           0.4         2.0 mil 70%           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3	Marcocon Marcola Ma	FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         WOLTAGE/PHASE         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE V         PANEL DEFLECTION AT 8" W.C. STATE	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16	
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-3 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTALI 3. COLOR SHALL BE SEL NOTE: PRIOR TO ORDER	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 URAL PLANS FOR M0 L WITH CHANNEL FR. ECTED BY OWNER. CO TION EFFECTIVENES	277 V / 1 PH, 10 H METAL BRAIE SIZE FREE AF J) (SF) 60 12.6 60	D AND THERMO	PLASTIC JACKE	HICKNESS WATE (IN) EFF 4 99 4 99 4 99 4 99	(**)         FINIS           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3		FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         WOLTAGE/PHASE         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE V         PANEL DEFLECTION AT 8" W.C. STAT         2. PROVIDE AND INSTALL WITH ENERGY	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16	CHEDULE FOR MORE INFORMATION.
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-3 GREENHECK L-4 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTALI 3. COLOR SHALL BE SEL NOTE: PRIOR TO ORDER ** WATER PENETRAT	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 URAL PLANS FOR M0 L WITH CHANNEL FR. ECTED BY OWNER. CO TION EFFECTIVENES	277 V / 1 PH, 10 H METAL BRAIE SIZE FREE AF J) (SF) 60 12.6 60	D AND THERMO	PLASTIC JACKE	HICKNESS WATE (IN) EFF 4 99 4 99 4 99 4 99	(**)         FINIS           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3		FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         WOLTAGE/PHASE         MCA         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE W         PANEL DEFLECTION AT 8" W.C. STAT         2. PROVIDE AND INSTALL WITH ENERG         3. REFRIGERANT COILS SHALL BE GAL	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16	CHEDULE FOR MORE INFORMATION.
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-3 GREENHECK L-4 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTALI 3. COLOR SHALL BE SEL NOTE: PRIOR TO ORDER ** WATER PENETRAT	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 URAL PLANS FOR M0 L WITH CHANNEL FR. ECTED BY OWNER. CO TION EFFECTIVENES	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF 1) (SF) 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 0RE INFORMA AME AND GLAD ONTRACTOR S SS WITH 3 IN/HI	D AND THERMO	PLASTIC JACKE	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99 1NG OPENINGS TH	(**)         FINIS           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3		FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         VOLTAGE/PHASE         MCA         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE V         PANEL DEFLECTION AT 8" W.C. STAT         2. PROVIDE AND INSTALL WITH ENERG         3. REFRIGERANT COILS SHALL BE GAL         4. PROVIDE AND INSTALL WITH SINGLE         5. PROVIDE AND INSTALL WITH INDIVID	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16	CHEDULE FOR MORE INFORMATION. ON RESISTANT COATING.
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-3 GREENHECK L-4 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTALI 3. COLOR SHALL BE SEL NOTE: PRIOR TO ORDER ** WATER PENETRAT	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 URAL PLANS FOR M0 L WITH CHANNEL FR. ECTED BY OWNER. CO TION EFFECTIVENES	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF 1) (SF) 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 0RE INFORMA AME AND GLAD ONTRACTOR S SS WITH 3 IN/HI	D AND THERMO	PLASTIC JACKE	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99 1NG OPENINGS TH	(**)         FINIS           0.4         2.0 mil 70%	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3		FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         VOLTAGE/PHASE         MCA         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE V         PANEL DEFLECTION AT 8" W.C. STAT         2. PROVIDE AND INSTALL WITH ENERG         3. REFRIGERANT COILS SHALL BE GAL         4. PROVIDE AND INSTALL WITH SINGLE         5. PROVIDE AND INSTALL WITH INDIVID         OPERATE INDEPENDENTLY ON FAIL	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16         VALL ALUMINUM CONSTRUCTION WITH MINIMUM R-13 INSULAT         TIC PRESSURE, AND DESIGNED FOR OUTDOOR INSTALLATION.         AY RECOVERY. REFER TO FIXED PLATE ENERGY RECOVERY SC         VANIZED STEEL CASING WITH COPPER TUBE WITH CORROSIO         E POINT ELECTRICAL POWER CONNECTION AND 65 KA SCCR.         DUAL PACKAGED VARIABLE SPEED DRIVES FOR EACH SUPPLY / URE OF OTHER FANS.	CHEDULE FOR MORE INFORMATION. ON RESISTANT COATING.
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-3 GREENHECK L-4 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTALI 3. COLOR SHALL BE SEL NOTE: PRIOR TO ORDER ** WATER PENETRAT	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 URAL PLANS FOR M0 L WITH CHANNEL FR. ECTED BY OWNER. CO TION EFFECTIVENES	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF 1) (SF) 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 0RE INFORMA AME AND GLAD ONTRACTOR S SS WITH 3 IN/HI ONTRACTOR S	D AND THERMO	PLASTIC JACKE	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99 1NG OPENINGS TH	(**)         FINIS           0.4         2.0 mil 70%           MAT LOUVERS MUS           SCHEDI           MAX	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 5 BE INSTALLED IN ULE	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3		FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         VOLTAGE/PHASE         MCA         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE V         PANEL DEFLECTION AT 8" W.C. STAT         2. PROVIDE AND INSTALL WITH ENERGY         3. REFRIGERANT COILS SHALL BE GAL         4. PROVIDE AND INSTALL WITH SINGLE         5. PROVIDE AND INSTALL WITH HIDIVIE         OPERATE INDEPENDENTLY ON FAIL         6. PROVIDE AND INSTALL WITH ALUMIT	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16         VALL ALUMINUM CONSTRUCTION WITH MINIMUM R-13 INSULAT         TIC PRESSURE, AND DESIGNED FOR OUTDOOR INSTALLATION.         AY RECOVERY. REFER TO FIXED PLATE ENERGY RECOVERY SC         VANIZED STEEL CASING WITH COPPER TUBE WITH CORROSIO         E POINT ELECTRICAL POWER CONNECTION AND 65 KA SCCR.         DUAL PACKAGED VARIABLE SPEED DRIVES FOR EACH SUPPLY / URE OF OTHER FANS.	CHEDULE FOR MORE INFORMATION. ON RESISTANT COATING. AND EXHAUST FAN. FANS SHALL BE CONFIGU
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		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTALI 3. COLOR SHALL BE SEL NOTE: PRIOR TO ORDER ** WATER PENETRAT	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 CURAL PLANS FOR M0 L WITH CHANNEL FR. ECTED BY OWNER. ING ANY LOUVER, CO TION EFFECTIVENES	277 V / 1 PH, 10 H METAL BRAID SIZE FREE AF (SF) 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 0 RE INFORMA AME AND GLA ONTRACTOR S S WITH 3 IN/HI MODEL 300FL	LOUVE REA AIRFLOW (CFM) ATION. ZING ADAPTER. SHALL FIELD VE R RAINFALL AND FFUSEI IECK SIZE FA (IN) 22x6	RIFY ANY EXIST D 29 MPH WIND CE SIZE (IN) 24x8 DB	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99 4 99 1NG OPENINGS TH GRILLE HROW MAX ATTERN CFM L. DEFL. 616	(**)         FINIS           0.4         2.0 mil 70%           MAX           A PD THROW           (IN)         (FT)           0.117         32	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 5 BE INSTALLED IN ULE MAX NC MATEF 30 ALUMIN	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 NUM 1, 2		FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         VOLTAGE/PHASE         MCA         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE V         PANEL DEFLECTION AT 8" W.C. STAT         2. PROVIDE AND INSTALL WITH ENERGY         3. REFRIGERANT COILS SHALL BE GAL         4. PROVIDE AND INSTALL WITH SINGLE         5. PROVIDE AND INSTALL WITH SINGLE         6. PROVIDE AND INSTALL WITH ALUMIN         7. PROVIDE AND INSTALL WITH ALUMIN         7. PROVIDE AND INSTALL WITH PACKA         FOR A COMPLETE AND FULLY FUNC         8. PROVIDE AND INSTALL WITH BACNE         9. PROVIDE AND INSTALL WITH EXTER         10. PROVIDE AND INSTALL WITH FACTOR	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16         VALL ALUMINUM CONSTRUCTION WITH MINIMUM R-13 INSULAT         TIC PRESSURE, AND DESIGNED FOR OUTDOOR INSTALLATION.         BY RECOVERY. REFER TO FIXED PLATE ENERGY RECOVERY SC         VANIZED STEEL CASING WITH COPPER TUBE WITH CORROSIO         E POINT ELECTRICAL POWER CONNECTION AND 65 KA SCCR.         DUAL PACKAGED VARIABLE SPEED DRIVES FOR EACH SUPPLY JURE OF OTHER FANS.         NUM INSULATED IAQ DRAIN PAN.         GED CONTROLS AND ALL ASSOCIATED ACTUATORS, DAMPERS         CITIONING UNIT IN EVERY RESPECT.         ET MSTP INTERFACE.         NAL HEATED AND VENTILATED VSD ENCLOSURE.         ORY WIRED NEMA 3R ELECTRICAL DISCONNECT	CHEDULE FOR MORE INFORMATION. IN RESISTANT COATING. AND EXHAUST FAN. FANS SHALL BE CONFIGU
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		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-2 GREENHECK L-3 GREENHECK L-4 GREENHECK REMARKS: 1. REFER TO ARCHITECT 2. PROVIDE AND INSTALI 3. COLOR SHALL BE SEL NOTE: PRIOR TO ORDER ** WATER PENETRAT	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 CURAL PLANS FOR M0 L WITH CHANNEL FR. ECTED BY OWNER. ING ANY LOUVER, CO TION EFFECTIVENES	277 V / 1 PH, 10 1 METAL BRAID SIZE FREE AF 1) (SF) 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 0 RE INFORMA AME AND GLA ONTRACTOR S S WITH 3 IN/HI MODEL N 300FL 3 350FL 1	LOUVE REA AIRFLOW (CFM) ATION. ZING ADAPTER. SHALL FIELD VE R RAINFALL AND FFUSEI IECK SIZE FA (IN) 22x6	RIFY ANY EXIST D 29 MPH WIND CE SIZE (IN) 24x8 DB	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99 4 99 1NG OPENINGS TH GRILLE HROW MAX ATTERN CFM L. DEFL. 616	(**)         FINIS           0.4         2.0 mil 70%           MAX           A PD THROW           (IN)         (FT)           0.117         32	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 5 BE INSTALLED IN ULE MAX NC MATEF 30 ALUMIN	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 NUM 1, 2		FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         VOLTAGE/PHASE         MCA         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE V         PANEL DEFLECTION AT 8" W.C. STAT         2. PROVIDE AND INSTALL WITH ENERG         3. REFRIGERANT COILS SHALL BE GAL         4. PROVIDE AND INSTALL WITH SINGLE         5. PROVIDE AND INSTALL WITH HOUVID         OPERATE INDEPENDENTLY ON FAIL         6. PROVIDE AND INSTALL WITH HALUMII         7. PROVIDE AND INSTALL WITH ALUMII         7. PROVIDE AND INSTALL WITH PACKAR         FOR A COMPLETE AND FULLY FUNC         8. PROVIDE AND INSTALL WITH BACNE         9. PROVIDE AND INSTALL WITH BACNE         9. PROVIDE AND INSTALL WITH FACTO         11. REFER	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16         VALL ALUMINUM CONSTRUCTION WITH MINIMUM R-13 INSULAT         TIC PRESSURE, AND DESIGNED FOR OUTDOOR INSTALLATION.         GY RECOVERY. REFER TO FIXED PLATE ENERGY RECOVERY SC         VANIZED STEEL CASING WITH COPPER TUBE WITH CORROSIO         E POINT ELECTRICAL POWER CONNECTION AND 65 KA SCCR.         DUAL PACKAGED VARIABLE SPEED DRIVES FOR EACH SUPPLY, URE OF OTHER FANS.         NUM INSULATED IAQ DRAIN PAN.         GED CONTROLS AND ALL ASSOCIATED ACTUATORS, DAMPERS         CTIONING UNIT IN EVERY RESPECT.         ET MSTP INTERFACE.         NAL HEATED AND VENTILATED VSD ENCLOSURE.         ORY WIRED NEMA 3R ELECTRICAL DISCONNECT         IETAILS FOR MODULE CONFIGURATIONS.         A EFFICIENCY WITH CLASS F INSULATION AND INTEGRAL SHAF         ECT FIRED FURNACES WITH 409SS HEAT EXCHANGER.         ED STRUCTURAL STEEL BASE AND WELDED ALUMINUM STRUCT <td>CHEDULE FOR MORE INFORMATION. ON RESISTANT COATING. AND EXHAUST FAN. FANS SHALL BE CONFIGU S, VALVES, SENSORS, CONTROLLERS, CABLING T GROUNDING RING. CTURAL TUBE FRAME.</td>	CHEDULE FOR MORE INFORMATION. ON RESISTANT COATING. AND EXHAUST FAN. FANS SHALL BE CONFIGU S, VALVES, SENSORS, CONTROLLERS, CABLING T GROUNDING RING. CTURAL TUBE FRAME.
		MFR: HEAT TRAC MODEL: FSR RFORMANCE: 40 BTUH P REMARKS: 1. PROVID 1. PROVID TAG MFR. L-1 GREENHECK L-2 GREENHECK L-3 GREENHECK L-4 GREENHECK I. REFER TO ARCHITECT 2. PROVIDE AND INSTALI 3. COLOR SHALL BE SEL NOTE: PRIOR TO ORDER ** WATER PENETRAT	CE ER FOOT (40 W/M), 2 E AND INSTALL WITH FACE MODEL (IN EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 EHH-401 70x6 CHH-401 70x6 EHH-401 70x6 CHH-401 70x6 EHH-401 70x6 EHH-401 70x6 CHH-401 70x6 EHH-401 70x6 EHH-401 70x6 CHH-401 70x6 EHH-401 70x6 EHH-400 FH EHH-400 FH EHH EHH EHH EHH EHH EHH EHH EHH EHH E	277 V / 1 PH, 10 1 METAL BRAIE SIZE FREE AF 1) (SF) 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 60 12.6 0 RE INFORMA AME AND GLA ONTRACTOR S S WITH 3 IN/HI MODEL 3 300FL 3 350FL 1 HITE.	LOUVE REA AIRFLOW (CFM) - - - - - - - - - - - - -	PLASTIC JACKE	EDULE HICKNESS WATE (IN) EFF 4 99 4 99 4 99 4 99 4 99 4 99 1NG OPENINGS TH COMPANINGS	(**)         FINIS           0.4         2.0 mil 70%           MAX           A PD THROW           (IN)         (FT)           0.117         32	SH SERVIC 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 6 KYNAR INTAKE 5 BE INSTALLED IN ULE MAX NC MATEF 30 ALUMIN	E REMARKS 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 NUM 1, 2		FACE VELOCITY (FPM)         PD (IN W.C.)         REFRIGERANT         CIRCUITS         INDIRECT GAS-FIRED FURNACE         AIRFLOW (CFM)         FURNACE QUANTITY         INPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         OUTPUT CAP (MBH, EA)         EAT (DEG F)         LAT (DEG F)         FUEL         TOTAL TURNDOWN         FUEL PRESSURE         PD (IN W.C.)         ELECTRICAL         VOLTAGE/PHASE         MCA         MOP         REMARKS:         1. ALL SECTIONS SHALL BE DOUBLE V         PANEL DEFLECTION AT 8" W.C. STAT         2. PROVIDE AND INSTALL WITH ENERG         3. REFRIGERANT COILS SHALL BE GAL         4. PROVIDE AND INSTALL WITH SINGLE         5. PROVIDE AND INSTALL WITH HOUTE         OPERATE INDEPENDENTLY ON FAIL         6. PROVIDE AND INSTALL WITH HALUMII         7. PROVIDE AND INSTALL WITH ALUMII         7. PROVIDE AND INSTALL WITH PACKAR         FOR A COMPLETE AND FULLY FUNC         8. PROVIDE AND INSTALL WITH BACNE         9. PROVIDE AND INSTALL WITH BACNE         9. PROVIDE AND INSTALL WITH FACT         11. REFER TO	674         0.38         R454B         4         50,000         6         400         324         57.9         93.9         NATURAL GAS         30 TO 1         6-14" WC         0.32         460/3         484.5         600         , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16         YALL ALUMINUM CONSTRUCTION WITH MINIMUM R-13 INSULAT         TIC PRESSURE, AND DESIGNED FOR OUTDOOR INSTALLATION.         AY RECOVERY. REFER TO FIXED PLATE ENERGY RECOVERY SC         VANIZED STEEL CASING WITH COPPER TUBE WITH CORROSIO         E POINT ELECTRICAL POWER CONNECTION AND 65 KA SCCR.         DUAL PACKAGED VARIABLE SPEED DRIVES FOR EACH SUPPLY / URE OF OTHER FANS.         NUM INSULATED IAQ DRAIN PAN.         GED CONTROLS AND ALL ASSOCIATED ACTUATORS, DAMPERS         STIONING UNIT IN EVERY RESPECT.         ET MSTP INTERFACE.         NAL HEATED AND VENTILATED VSD ENCLOSURE.         ORY WIRED NEMA 3R ELECTRICAL DISCONNECT         'ETAILS FOR MODULE CONFIGURATIONS.         M EFFICIENCY WITH CLASS F INSULATION AND INTEGRAL SHAF         ECT FIRED FURNACES WITH 409SS HEAT EXCHANGER.	CHEDULE FOR MORE INFORMATION. ON RESISTANT COATING. AND EXHAUST FAN. FANS SHALL BE CONFIGU S, VALVES, SENSORS, CONTROLLERS, CABLING T GROUNDING RING. CTURAL TUBE FRAME. BIRD SCREEN.

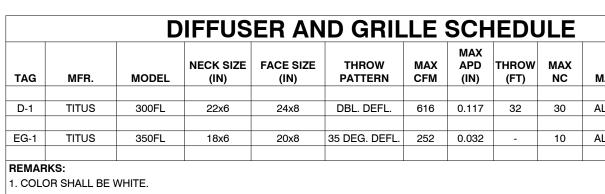
									-				{			
		FIXE	D PLA			ECOVE	RY SC						{		ATATORIUM AIR HANDLER SCHEDU	LE
				EXHAUST AIR		EAT	LAT	OUTSIDE VENT		EAT		LAT	$\zeta$	TAG MFR.	AHU-1 INNOVENT	
R.	MODEL	SERVICE	MODE	AIRLFOW (CFM)	ESP (IN W.C.)	DB/RH (DEG F/%)	DB/RH (DEG F/%)	AIRLFOW (CFM)	ESP (IN W.C.)	DB/WB (DEG F)		DB/WB (DEG F)		MODEL UNIT DIM LxWxH (IN)	NDHU-OU-PL-50000-HG-IF-460 386x212x136.5	
		TATORIUM	SUMMER	35,000	0.96	82.0 / 60.0	84.6 3 55.1	30,000	0.74	87.0 / 77.6	6 8	33.9 / 76.8	1, 2	UNIT WEIGHT (LBS)	30,500	
			WINTER	23,000	0.45	82.0 / 42.4	45.7 / 100	18,000	0.27	-10.0 / -10.	.9 4	14.0 / 29.8	}	SUPPLY FAN AIRFLOW (CFM)	50,000	
													(	OUTSIDE AIR (CFM)	11,000	
	SMOOTH ALUMINU AQ ALUMINUM DR		V PLATES WITH A	LUMINUM FRAM	IE AND END PL	LATES.							$ \zeta $	TSP (IN W.C.) ESP (IN W.C.)	<u>5.14</u> 2.0	
													ح	DIRTY FILTER SP (IN W.C.)	0.24	
													}	FILTER TYPE	2" WASHABLE ALUMINUM 1631	
$\sim \sim \sim$	$\sim$	$\sim\sim\sim$	$\sim$	$\sim$	$\sim\sim\sim$	$\sim$	$\sim$	$\sim\sim\sim\sim$	$\sim \sim \sim$	$\sim$	$\sim$	$\sim \sim \sim$	m	MOTOR SYNCH RPM		
														FAN TYPE WHEEL DIAMETER (IN)	AF PL 27	
		1	C	ONDEN	SING	UNIT S	CHEDU	LE	<u></u>					FAN QUANTITY	4	
		EQUIP. WEIG		TOTAL CAP. SS	AMBIENT T TEMP		EVAP B/EWB CAPAG		FI	.EC				DRIVE TYPE MOTOR (HP, EA)	DIRECT 20.0	
MFR.		SERVED (LBS	,	(MBH) (DEG		· · ·	DEG F) STEI		EER (V/	PH) MCA			MARKS	MOTOR (BHP, EA)	14	
INNOVENT	CAHU-0-460	AHU-1 10,30	00 R-454B	2119.2 42.	3 95	50000 83.	9 / 76.8 VAF	8 4	10.3 46	0/3 45	4:	1, 2, 3,	4, 5, 6, 7, 8	ELECTRICAL (V / PH) MODULATION	460/3 VSD	
														EXHAUST FAN		
E AND INSTA	L WITH SINGLE PO	OINT ELECTRICA	AL POWER CONN	ECTION AND FA	CTORY WIRED	) NEMA 3R ELEC	TRICAL DISCONI	NECT SWITCH.						AIRFLOW (CFM) TSP (IN W.C.)	35,000 3.8	
	L WITH COIL HAIL													ESP (IN W.C.)	2.0	
	L WITH LOW SOU													DIRTY FILTER SP (IN W.C.)	0.57 2" WASHABLE ALUMINUM	
E AND INSTA	L WITH CONVENIE	ENCE OUTLET.												FILTER TYPE		
	_L WITH PHASE LC _L WITH LOW AMB			S F.										MOTOR SYNCH RPM		
	L WITH NEOPREN													FAN TYPE WHEEL DIAMETER (IN)	AF PL 24	
														FAN QUANTITY	3	
w	mm	un	uu	m	m	uu	uu	m	m	m	$\mathcal{M}$	m	mp	DRIVE TYPE MOTOR (HP, EA)	DIRECT 15	
													`}	MOTOR (BHP, EA)		
			F	PLUMB	BING F	IXTUR	E SCH	EDULI	Ε					ELECTRICAL (V / PH) MODULATION		
													ζ	DX COIL		
TAG	MFR.	MODEL			MODEL		TRIM FINISH	TRIM TYPE	WASTE	VENT	cw	HW R		AIRFLOW (CFM) TOTAL CAP (MBH)	30,000 2119	
							51/0						>	SENS CAP (MBH)	855	
FS-1	SIOUX CHIEF	860	1/2 OPEN P	/C STRAINER, A	LUMINIUM DOM	MESTRAINER	PVC	ROUND	-	-	-	-	\ \	EAT DB/WB (DEG F) LAT DB/WB (DEG F)	83.9 / 76.8 57.5 / 57.3	
													ς	ROWS		
1 ALL FL	<b>'S:</b> OOR DRAINS SHAI		WITH INTERNAL	TRAP SEAL TO I	PREVENT EVAR	PORATION							ح	FPI FACE VELOCITY (FPM)	10 500	
													4	APD (IN W.C.)	0.63	
<b>NOTES:</b> 1 "-H" D	ESIGNATES HANDI	ICAP ACCESSIBI	E FIXTURES											REFRIGERANT	R454B 4	
1. 11 0													{	HOT GAS REHEAT		
													ζ	AIRFLOW (CFM)	50,000	
													ح	TOTAL CAP (MBH) EAT DB/WB (DEG F)	1139 67.3 / 63.4	
			G	ENERAI		HANIC	AL EQU	<b>IPMEN</b>	T SCH	EDUL	E		}	LAT DB/WB (DEG F)	88.3 / 70.1	
			G: HT-1										_	ROWS	2 12	
			E: SELF-REGULA	ATING ELECTRIC	HEAT TAPE								{	FACE VELOCITY (FPM)	674	
			L: FSR											PD (IN W.C.) REFRIGERANT	0.38 R454B	
				, ,			[·] TOTAL )PLASTIC JACKE	т					3	CIRCUITS	4	
			S. I. THOUDE?					1					}	INDIRECT GAS-FIRED FURNACE AIRFLOW (CFM)	50,000	
													\	FURNACE QUANTITY	6	
													Ç	INPUT CAP (MBH, EA) OUTPUT CAP (MBH, EA)	400 324	
		<b></b>											ح ک	EAT (DEG F)	57.9	
						LOUVE	ER SCH	EDULE	I				}	LAT (DEG F) FUEL	93.9 NATURAL GAS	
	ہر	$\rightarrow \rightarrow \rightarrow \rightarrow$	$\sim$							$\sim\sim\sim$		$\sim$	$\sim$	TOTAL TURNDOWN	30 TO 1	
	{	TAG		MODEL (I	IN) (SF	⁻ ) (CFM)	(FPM)	(IN) Ef	=F (**)	FINISH				FUEL PRESSURE PD (IN W.C.)	6-14" WC 0.32	
	ζ				0x60 12.0 0x60 12.0		-			nil 70% KYNA nil 70% KYNA		NTAKE	1, 2, 3 1, 2, 3	ELECTRICAL		
	5	L-3 (	GREENHECK	EHH-401 70	)x60 12.	.6 -	-	-	99.4 2.0 r	nil 70% KYNA	AR IN	NTAKE	1, 2, 3	VOLTAGE/PHASE MCA		
	ح	L-4 C	GREENHECK	EHH-401 70	0x60 12.	6 -	-	4	99.4 2.0 r	nil 70% KYNA	AR   IN	NTAKE	1, 2, 3	МОР	600	
	<u></u> }	1. REFER T	O ARCHITECTUR											REMARKS:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 16	
			E AND INSTALL W SHALL BE SELEC			AZING ADAPTEF	ł.						$ \zeta$	REMARKS:		
	}				-	SHALL FIELD VI	ERIFY ANY EXIST	ING OPENINGS	THAT LOUVER	S MUST BE I	NSTALL	LED IN.			E WALL ALUMINUM CONSTRUCTION WITH MINIMUM R-13 INSULATION, SMACNA LE TATIC PRESSURE, AND DESIGNED FOR OUTDOOR INSTALLATION.	AKAGE CLASS 5.0, MAXIMUM L/250
	{						ID 29 MPH WIND			• •	•	• •	<b>X</b>		REGY RECOVERY. REFER TO FIXED PLATE ENERGY RECOVERY SCHEDULE FOR MC	RE INFORMATION.
	L	mm	<u> </u>		m	mm	un in		m	m		· · · ·	my		BALVANIZED STEEL CASING WITH COPPER TUBE WITH CORROSION RESISTANT CO GLE POINT ELECTRICAL POWER CONNECTION AND 65 KA SCCR.	ATING.
			<b></b>			· ·					_		{		IVIDUAL PACKAGED VARIABLE SPEED DRIVES FOR EACH SUPPLY AND EXHAUST FA	N. FANS SHALL BE CONFIGURED
					DI	FFUSE	R AND	GRILLE	SCHE	EDULE	Ē		(	OPERATE INDEPENDENTLY ON F	AILURE OF OTHER FANS. MINUM INSULATED IAQ DRAIN PAN.	
											<b>,</b>		$\langle \rangle$		MINUM INSULATED IAQ DHAIN PAN. XAGED CONTROLS AND ALL ASSOCIATED ACTUATORS, DAMPERS, VALVES, SENSO	ORS, CONTROLLERS, CABLING ETC.
			TAG	MFR.	MODEL	NECK SIZE F/ (IN)		HROW MAX		HROW MA (FT) NC		MATERIAL	REMARKS	FOR A COMPLETE AND FULLY FU 8. PROVIDE AND INSTALL WITH BAC	NCTIONING UNIT IN EVERY RESPECT.	
				TITUO	30051	2276	24v8		0.117	32 00			1 2		ERNAL HEATED AND VENTILATED VSD ENCLOSURE.	
			D-1	TITUS	300FL	22x6	24x8 DB	L. DEFL. 616	6 0.117	32 30			1,2	10. PROVIDE AND INSTALL WITH FA	CTORY WIRED NEMA 3R ELECTRICAL DISCONNECT	
			EG-1	TITUS	350FL	18x6	20x8 35 D	EG. DEFL. 252	2 0.032	- 10			1, 2		D DETAILS FOR MODULE CONFIGURATIONS. IUM EFFICIENCY WITH CLASS F INSULATION AND INTEGRAL SHAFT GROUNDING RI	NG.
			REMA	RKS:									}	13. PROVIDE AND INSTALL WITH INI	DIRECT FIRED FURNACES WITH 409SS HEAT EXCHANGER.	
			1. CO	LOR SHALL BE V									}		DATED STRUCTURAL STEEL BASE AND WELDED ALUMINUM STRUCTURAL TUBE FR/ JTSIDE AIR AND EXHAUST AIR WEATHER HOOD WITH ALUMINUM BIRD SCREEN.	ME.
			2. PR0	JVIDE AND INST.	ALL WITH FRAM	ME FOR SURFAC	CE INSTALLATION	Ν.					{		ITSIDE AIR AND EXHAUST AIR INSULATED LOW LEAKAGE CONTROL DAMPERS.	
													ζ			
													(			

WIFN.	TEAT TRACE
MODEL:	FSR
RFORMANCE:	40 BTUH PER FOOT (40 W/M), 277 V / 1 PH, 100 LINEAL FEET TOTAL
<b>REMARKS:</b>	1. PROVIDE AND INSTALL WITH METAL BRAID AND THERMOPLASTIC JACH

	V						
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MFR.	MODEL	(IN)	(SF)	(CFM)	(FPM)	(IN)	EFF (**)	
ENHECK	EHH-401	70x60	12.6	-	-	4	99.4	Ī
EENHECK	EHH-401	70x60	12.6	-	-	4	99.4	Ī
EENHECK	EHH-401	70x60	12.6	-	-	4	99.4	Ī
EENHECK	EHH-401	70x60	12.6	-	-	4	99.4	Ī
BCHITECT	URAL PLANS			N				
	UNAL FLANS			N.				
ND INSTAL	L WITH CHAN	NEL FRAME A	AND GLAZINO	G ADAPTER.				



IF THE WHEEL PRINTED BELOW IS NOT SHOWN IN COLOR, THIS SET OF PRINTS IS NOT REPRESENTING ALL LINE TYPES CORRECTLY. CONTACT PRIMARY ENGINEERING FOR DIRECTIONS ON HOW TO OBTAIN A FULL COLOR SET OF PRINTS

CONTROLS POINT LIST SCHEDULE																																								
ICS .																RD																			SC	)FT	WA	RE		
B NATATORIUM				UT AN							GIT/	<u> </u>	11	NPL	JT	(T, [	D, ∖	/, C		NA							DIG							ΒN	IS I	FUI		ΓΙΟΙ	NS	
	Control Relay/Contactor	g Point Control	Valve	c Transducer		r 0-10 VDC	Pressure Switch	Flow Switch	Space Occupancy Sensor	: Switch	Over-ride button	Contact Closure	Photocell	Auxiliary Contact	KW Meter Contact	Temperature	Relative Humidity	Set Point Adjustment	Carbon Dioxide Level (ppm)	Carbon Monoxide (ppm)	ot candles)		Flow Measurement (gpm/cfm)	Electrical Current Flow (amps)	Position Feedback		Alarm		Ice Notification	Limit	Limit (I emperature)	Time Alarm		Optimum Start/Stop	Totalization	O.A. Reset	Lead/Lag Control	BACNET software point	Lighting Control Integration	Color Graphics Item
nt Description	ပိ	문	So	Ъ	Шe	4-2	Pre	운	Sp	Cu	ð	ပိ	Ĕ	Au	¥	Tel	Rel	Sei	0a Da	Ca	Lig	P E	운	щ Ш	Ö	<u> </u>	ы	<u>۳</u>	Z⊒	Ë.	× N	Bun	ScI	ð	To	<u>,</u>	Le	BA	<u> </u>	ပိ
tside Air				<u> </u>																			_					_				_	-					<u> </u>	$\vdash$	
U-1																												+											-	
Space																																								
Heat Trace HT-1																									_	+		+	+		_							<u> </u>	$\vdash$	
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CONTROLS RESPON	SIBILITY	CHARI		
ITEM	TEMPERATURE CONTROL CONTRACTOR	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	REMARKS
FURNISH CONTROL VALVES	Х			
INSTALL CONTROL VALVES		Х		2
ROUGH-IN OF THERMOSTAT WALL BOXES	Х			
FURNISH PIPE WELLS FOR SENSORS	Х			
INSTALL PIPE WELLS FOR SENSORS		Х		
PROVIDE 120 VOLT POWER FOR CONTROL PANELS			Х	
PROVIDE 120 VOLT POWER FOR ADDITIONAL SLAVE CONTROL PANELS	Х			
PROVIDE INTERLOCK WIRING BETWEEN DEVICES, PANELS, BOILERS, CHILLERS, ETC.	Х			
INSTALL LOOSE SENSORS FURNISHED BY MANUFACTURER	Х			
FURNISH VARIABLE SPEED DRIVES	Х			1
INSTALL VARIABLE SPEED DRIVES			Х	1
PROVIDE LINE AND LOAD WIRING TO VARIABLE SPEED DRIVES			Х	
PROVIDE CONTROL WIRING TO VSD	Х			
PROGRAM AND STARTUP VSD	Х			
PROVIDE 120 VOLT POWER TO CONTROLS			Х	
PROVIDE LOW VOLTAGE CABLING TO CONTROLS	Х			
FURNISH CONTROL DAMPERS	Х	Х		2
INSTALL CONTROL DAMPERS		Х		
FURNISH DAMPER ACTUATORS	Х			2
INSTALL DAMPER ACTUATORS	Х			
WIRE LOW VOLTAGE DAMPER ACTUATORS	Х			
WIRE LINE VOLTAGE DAMPER ACTUATORS			Х	
COORDINATE PROJECT SCHEDULE WITH ALL TRADES	Х	Х	Х	
PROVIDE SHOP DRAWINGS TO ALL TRADES	Х	Х		
VERIFY AND TEST SEQUENCE OF OPERATIONS	Х			
TERMINATE DUCT DETECTORS			Х	
PROVIDE DUCT DETECTORS			Х	
PROVIDE 120 VOLT POWER TO SOLENOID VALVES			X	3
PROVIDE LOW VOLTAGE CABLING TO SOLENOID VALVES	Х			
DEMOLITION OF EXISTING CONTROLS	Х			
SALVAGE OF EXISTING CONTROLS	Х			

1. PACKAGED VSD'S INTERNAL TO HVAC EQUIPMENT SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT SCHEDULES FOR VSD'S TO BE FURNISHED BY EQUIPMENT MANUFACTURER. 2. PACKAGED CONTROL DAMPERS, VALVES, AND ACTUATORS INTEGRAL TO HVAC EQUIPMENT SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR MORE INFORMATION.

TCC COORDINATE WITH MC FOR REFRIGERANT AND GAS PIPING SOLENOID VALVE LOCATIONS.

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## MECHANICAL SYMBOL SCHEDIILE

			MECHANICAL SY	IMBOL SCHE	DULE			
	PIPING	SYMBOLS			MECHANICAL LINE TYPES			ABBREVIATIONS
	AUTOMATIC FLOW CONTROL VALVE AIR SEPARATOR AUTOMATIC AIR VENT BALL VALVE BUTTERFLY VALVE CHECK VALVE CHECK VALVE DOUBLE CHECK BACKFLOW PREVENTER FLOW METER GAS OUTLET TURRET GAS COCK GATE VALVE GLOBE VALVE HOSE THREAD END WITH CAP INLINE PIPE DROP INLINE PIPE RISE MANUAL FLOW CONTROL VALVE MANUAL AIR VENT		P&T RELIEF VALVEP&T PORTPIPE DROTPIPE CAPPIPE DROPPIPE THERMOMETERPRESSURE GAUGEPRESSURE INDEPENDENT CONTROL VALVEPRESSURE REDUCING VALVEPRESSURE REGULATING VALVESTRAINERSTRAINER WITH BLOWDOWNSTEAM TRAPTEMPERATURE SENSORTHERMOSTATIC MIXING VALVE2-WAY CONTROL VALVE	/       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /       /         /	EXISTING DUCT TO REMAIN NEW SUPPLY DUCT NEW RETURN DUCT NEW RETURN DUCT NEW OUTSIDE AIR DUCT NEW EXHAUST DUCT DUCT TO BE REMOVED HOT WATER SUPPLY PIPE HOT WATER RETURN PIPE CHILLED WATER SUPPLY PIPE CHILLED WATER RETURN PIPE GLYCOL PIPE LOW PRESSURE STEAM SUPPLY LOW PRESSURE STEAM RETURN AUXILIARY POOL SUPPLY AUXILIARY POOL SUPPLY AUXILIARY POOL RETURN STEAM CONDENSATE CONDENSER WATER SUPPLY CONDENSER WATER RETURN		ACCU A.F.F AFMS AHU AS ADS B CF CHLR CHWR CO CO2 COND CUH CWR CWS D DC EF EG ET FD FM FTR HPSS HVAC HWR HWS L DSR LPSS LRP MAU OA	AIR COOLED CONDENSING UNIT ABOVE FINISHED FLOOR AIR FLOW MEASURING STATION AIR HANDLER AIR SEPARATOR AIR DIRT SEPARATOR BOILER CEILING FAN CHILLED WATER RETURN CHILLED WATER RETURN CHILLED WATER SUPPLY CARBON MONOXIDE CARBON DIOXIDE CONDENSATE DRAIN CABINET UNIT HEATER CONDENSER WATER RETURN CONDENSER WATER SUPPLY DIFFUSER DUCT COIL EXHAUST FAN EXHAUST GRILLE EXPANSION TANK FURNACE FIRE DAMPER FLOW METER FINNED TUBE RADIATION HIGH PRESSURE STEAM RETURN HIGH PRESSURE STEAM RETURN HIGH PRESSURE STEAM RETURN HOT WATER RETURN HOT WATER RETURN HOT WATER SUPPLY LOUVER LOW PRESSURE STEAM RETURN HOT WATER SUPPLY LOUVER LOW PRESSURE STEAM RETURN HOW PRESSURE STEAM RETURN HOT WATER SUPPLY LOUVER LOW PRESSURE STEAM RETURN LOW PRESSURE STEAM RETURN LOW PRESSURE STEAM SUPPLY LINEAR RADIANT PANEL MAKE-UP AIR UNIT OUTSIDE AIR
M	METER	华/ 	3-WAY CONTROL VALVE UNION				OAC P RA	OPENING ABOVE CEILING PUMP
	MECHANIC	AL SYMBOLS			<b>GENERAL LINE TYPES</b>		RAD REL	RETURN AIR RADIANT HEATER RELIEF AIR
SFD SFD	BACKDRAFT DAMPER COMBINATION SMOKE/FIRE DAMPER CONTROL DAMPER ACTUATOR DOUBLE WALL DUCTWORK DUCT CAP DUCT MOUNTED COIL	© ₩ ↓ ↓ □ □	FLEXIBLE DUCT INLINE PUMP MANUAL AIR VENT OPPOSED BLADE BALANCE DAMPER RETURN/EXHAUST/ TRANSFER AIR GRILLE SHUTOFF VAV BOX WITH REHEAT SINCLE BLADE BALANCE DAMPER		EXISTING TO REMAIN LINE WEIGHT EXISTING TO BE DEMOLISHED LINE T NEW DUCT LINE WEIGHT NEW PIPING LINE WEIGHT NEW EQUIPMENT LINE WEIGHT	-	RET RC RF RG RTU SA SFD SR TG UH UV VAV	RETURN AIR ROOF CAP RELIEF FAN RETURN GRILLE ROOFTOP UNIT RELIEF VENT SUPPLY AIR SMOKE FIRE DAMPER SUPPLY REGISTER TRANSFER GRILLE UNIT HEATER UNIT VENTILATOR VARIABLE AIR VOLUME BOX
	DUCTWORK WITH DUCT LINER		SINGLE BLADE BALANCE DAMPER		GENER	RAL SYMBOLS		
	DUCTWORK WITHOUT DUCT LINER	ŀ ŀ	STRAINER STRAINER WITH BLOWDOWN		EXTENT OF DEMOLITION			N OF NEW TO EXISTING
	FAN POWERED VAV BOX WITH REHEAT	$\boxtimes$	SUPPLY AIR DIFFUSER		MECHANICAL	CONTROL SYN	ABOLS	
	FIRE DAMPER	T T T		-CO2	N DIOXIDE SENSOR N MONOXIDE SENSOR	T T	THERMOS	STAT STAT (LINE VOLTAGE)
, , , , , , , , , , , , , , , , , , ,	FIRE DAMPER	Ϋ́				-E		
<u>}</u> 1 ⊀		Ē	UNIT HEATER WALL MOUNTED PRESSURE GAUGE	SECURI	R PIPE PRESSURE SENSOR TY TYPE THERMOSTAT ATIC THERMOSTAT		CO2 SENS	SOR

## **GENERAL DEMOLITION NOTES**

- ALL EXISTING PENETRATIONS FROM DUCT/PIPE/WIRE/CONDUIT THAT ARE REMOVED SHALL BE PATCHED BY PROPER TRADES TO MATCH SURBOUNDINGS UNLESS PENETRATION IS TO BE REUSED. PATCH ALL FLOOR AND WALL PENETRATIONS TO MAINTAIN FIRE RATED CONSTRUCTION. REFER TO CUTTING AND PATCHING NOTES. ALL PIPE TO BE REMOVED SHALL BE REMOVED TO WITHIN CONCEALED AREAS SUCH AS WALL
- CAVITIES AND BELOW FLOOR SLABS. CAP PIPING AIR AND WATER TIGHT. PATCH SURFACES TO MATCH ADJACENT.
- 3. PRIOR TO CUTTING EXISTING SLAB ON GRADE, CONTRACTOR SHALL VERIFY PRESENCE OF EXISTING UTILITIES SUCH AS PIPING, CONDUIT, WIRE, ETC. AND SHALL TAKE PRECAUTIONS TO PROTECT EXISTING UTILITIES, ISOLATE PIPING, AND DE-ENERGIZE ELECTRICAL POWER.

## **EXISTING FINISHES**

- EXISTING SECOND FLOOR CARPET TILE FLOORING: J+J FLOORING KINETEX ANALOG 1821 COLOR 1
- 2. EXISTING CONCESSION AND RESTROOM CEILINGS: 2x4 VINYL COVERED CEILING TILE USG 3260
- 3. EXISTING CEILINGS: 2x2 ACOUSTICAL CEILING TILE USG 2310.
- 4. EXISTING INTERIOR WALL PAINT: PPG FWCS SPECIAL UMBER.
- EXISTING VINYL FLOOR TILE: ARMSTRONG STANDARD EXCELON, IMPERIAL TEXTURE, 12"x12", 0.125"

## **GENERAL FIRE PROTECTION NOTES**

- 1. ALL WORK SHALL COMPLY WITH THE CURRENT VERSION OF NFPA 13 AND ALL LOCAL, STATE, AND NATIONAL CODES.
- 2. ALL PIPING SHALL BE SCH 40 STEEL, SCH 10 STEEL, SCH 40 GALVANIZED, OR DYNAFLOW/MEGAFLOW PIPE WITH ROLL-GROOVE COUPLING JOINTS, THREADED, OR FLANGED CONNECTION
- 3. ALL PIPING EXPOSED TO VIEW IN FINISHED SPACES (OTHER THAN EQUIPMENT ROOMS) SHALL BE PAINTED TO MATCH EXISTING.
- 4. THE INSTALLING CONTRACTOR SHALL DESIGN THE FIRE PROTECTION SYSTEM AND SUBMIT FOR REVIEW BY THE ENGINEER AND SUBSEQUENTLY SUBMIT FOR REVIEW BY STATE AND LOCAL AUTHORITY. 5. ALL PIPING SHALL BE LABELED "FIRE PROTECTION WATER".
- 6. INSTALLER'S RESPONSIBILITIES INCLUDE DESIGNING, FABRICATING, AND INSTALLING SPRINKLER SYSTEMS AND PROVIDING PROFESSIONAL ENGINEERING SERVICES NEEDED TO ASSUME ENGINEERING RESPONSIBILITY.

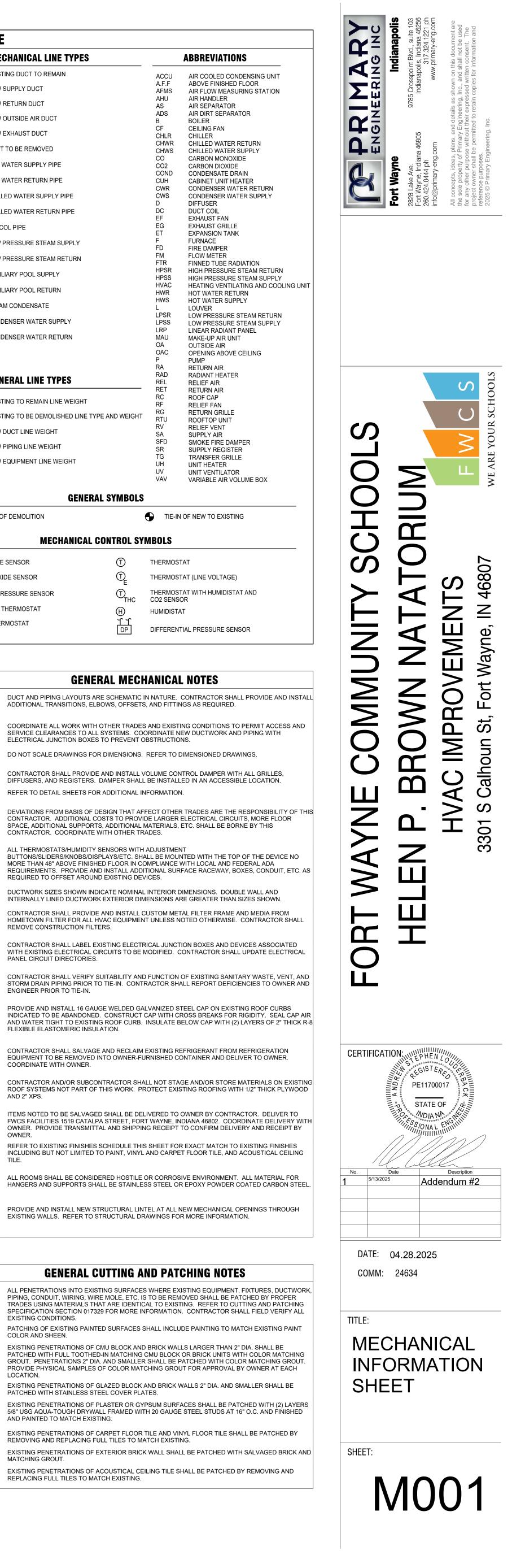
## **GENERAL MECHANICAL NOTES**

DP

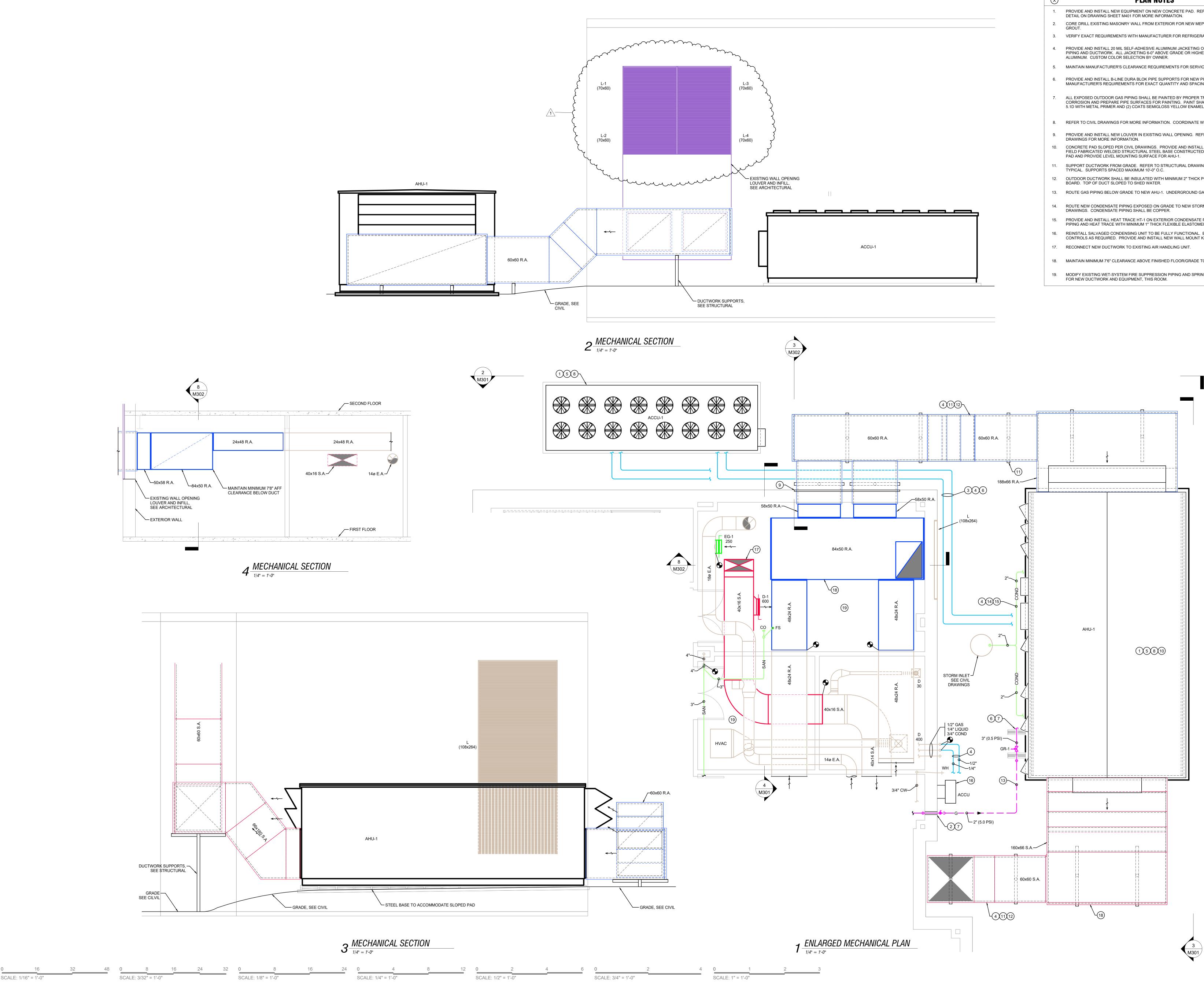
- DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.
- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE NEW DUCTWORK AND PIPING WITH ELECTRICAL JUNCTION BOXES TO PREVENT OBSTRUCTIONS.
- DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.
- CONTRACTOR SHALL PROVIDE AND INSTALL VOLUME CONTROL DAMPER WITH ALL GRILLES, DIFFUSERS, AND REGISTERS. DAMPER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIALS, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE WITH OTHER TRADES.
- ALL THERMOSTATS/HUMIDITY SENSORS WITH ADJUSTMENT BUTTONS/SLIDERS/KNOBS/DISPLAYS/ETC. SHALL BE MOUNTED WITH THE TOP OF THE DEVICE NO MORE THAN 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LOCAL AND FEDERAL ADA REQUIREMENTS. PROVIDE AND INSTALL ADDITIONAL SURFACE RACEWAY, BOXES, CONDUIT, ETC. AS REQUIRED TO OFFSET AROUND EXISTING DEVICES.
- DUCTWORK SIZES SHOWN INDICATE NOMINAL INTERIOR DIMENSIONS. DOUBLE WALL AND INTERNALLY LINED DUCTWORK EXTERIOR DIMENSIONS ARE GREATER THAN SIZES SHOWN.
- CONTRACTOR SHALL PROVIDE AND INSTALL CUSTOM METAL FILTER FRAME AND MEDIA FROM HOMETOWN FILTER FOR ALL HVAC EQUIPMENT UNLESS NOTED OTHERWISE. CONTRACTOR SHALL REMOVE CONSTRUCTION FILTERS.
- CONTRACTOR SHALL LABEL EXISTING ELECTRICAL JUNCTION BOXES AND DEVICES ASSOCIATED WITH EXISTING ELECTRICAL CIRCUITS TO BE MODIFIED. CONTRACTOR SHALL UPDATE ELECTRICAL PANEL CIRCUIT DIRECTORIES.
- CONTRACTOR SHALL VERIFY SUITABILITY AND FUNCTION OF EXISTING SANITARY WASTE, VENT, AND STORM DRAIN PIPING PRIOR TO TIE-IN. CONTRACTOR SHALL REPORT DEFICIENCIES TO OWNER AND ENGINEER PRIOR TO TIE-IN.
- PROVIDE AND INSTALL 16 GAUGE WELDED GALVANIZED STEEL CAP ON EXISTING ROOF CURBS INDICATED TO BE ABANDONED. CONSTRUCT CAP WITH CROSS BREAKS FOR RIGIDITY. SEAL CAP AIR AND WATER TIGHT TO EXISTING ROOF CURB. INSULATE BELOW CAP WITH (2) LAYERS OF 2" THICK R-8 FLEXIBLE ELASTOMERIC INSULATION.
- 13. CONTRACTOR SHALL SALVAGE AND RECLAIM EXISTING REFRIGERANT FROM REFRIGERATION EQUIPMENT TO BE REMOVED INTO OWNER-FURNISHED CONTAINER AND DELIVER TO OWNER. COORDINATE WITH OWNER.
- CONTRACTOR AND/OR SUBCONTRACTOR SHALL NOT STAGE AND/OR STORE MATERIALS ON EXISTING ROOF SYSTEMS NOT PART OF THIS WORK. PROTECT EXISTING ROOFING WITH 1/2" THICK PLYWOOD AND 2" XPS.
- 15. ITEMS NOTED TO BE SALVAGED SHALL BE DELIVERED TO OWNER BY CONTRACTOR. DELIVER TO FWCS FACILITIES 1519 CATALPA STREET, FORT WAYNE, INDIANA 46802. COORDINATE DELIVERY WITH OWNER. PROVIDE TRANSMITTAL AND SHIPPING RECEIPT TO CONFIRM DELIVERY AND RECEIPT BY OWNER. 16. REFER TO EXISTING FINISHES SCHEDULE THIS SHEET FOR EXACT MATCH TO EXISTING FINISHES
- INCLUDING BUT NOT LIMITED TO PAINT, VINYL AND CARPET FLOOR TILE, AND ACOUSTICAL CEILING
- 17. ALL ROOMS SHALL BE CONSIDERED HOSTILE OR CORROSIVE ENVIRONMENT. ALL MATERIAL FOR HANGERS AND SUPPORTS SHALL BE STAINLESS STEEL OR EPOXY POWDER COATED CARBON STEEL
- 18. PROVIDE AND INSTALL NEW STRUCTURAL LINTEL AT ALL NEW MECHANICAL OPENINGS THROUGH EXISTING WALLS. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

## **GENERAL CUTTING AND PATCHING NOTES**

- ALL PENETRATIONS INTO EXISTING SURFACES WHERE EXISTING EQUIPMENT, FIXTURES, DUCTWORK, PIPING, CONDUIT, WIRING, WIRE MOLE, ETC. IS TO BE REMOVED SHALL BE PATCHED BY PROPER TRADES USING MATERIALS THAT ARE IDENTICAL TO EXISTING. REFER TO CUTTING AND PATCHING SPECIFICATION SECTION 017329 FOR MORE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. PATCHING OF EXISTING PAINTED SURFACES SHALL INCLUDE PAINTING TO MATCH EXISTING PAINT
- COLOR AND SHEEN. EXISTING PENETRATIONS OF CMU BLOCK AND BRICK WALLS LARGER THAN 2" DIA. SHALL BE PATCHED WITH FULL TOOTHED-IN MATCHING CMU BLOCK OR BRICK UNITS WITH COLOR MATCHING GROUT. PENETRATIONS 2" DIA. AND SMALLER SHALL BE PATCHED WITH COLOR MATCHING GROUT. PROVIDE PHYSICAL SAMPLES OF COLOR MATCHING GROUT FOR APPROVAL BY OWNER AT EACH LOCATION.
- 4. EXISTING PENETRATIONS OF GLAZED BLOCK AND BRICK WALLS 2" DIA. AND SMALLER SHALL BE PATCHED WITH STAINLESS STEEL COVER PLATES.
- 5/8" USG AQUA-TOUGH DRYWALL FRAMED WITH 20 GAUGE STEEL STUDS AT 16" O.C. AND FIŃISHED AND PAINTED TO MATCH EXISTING.
- EXISTING PENETRATIONS OF CARPET FLOOR TILE AND VINYL FLOOR TILE SHALL BE PATCHED BY REMOVING AND REPLACING FULL TILES TO MATCH EXISTING.
- EXISTING PENETRATIONS OF EXTERIOR BRICK WALL SHALL BE PATCHED WITH SALVAGED BRICK AND MATCHING GROUT.
- EXISTING PENETRATIONS OF ACOUSTICAL CEILING TILE SHALL BE PATCHED BY REMOVING AND REPLACING FULL TILES TO MATCH EXISTING.





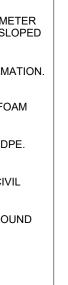


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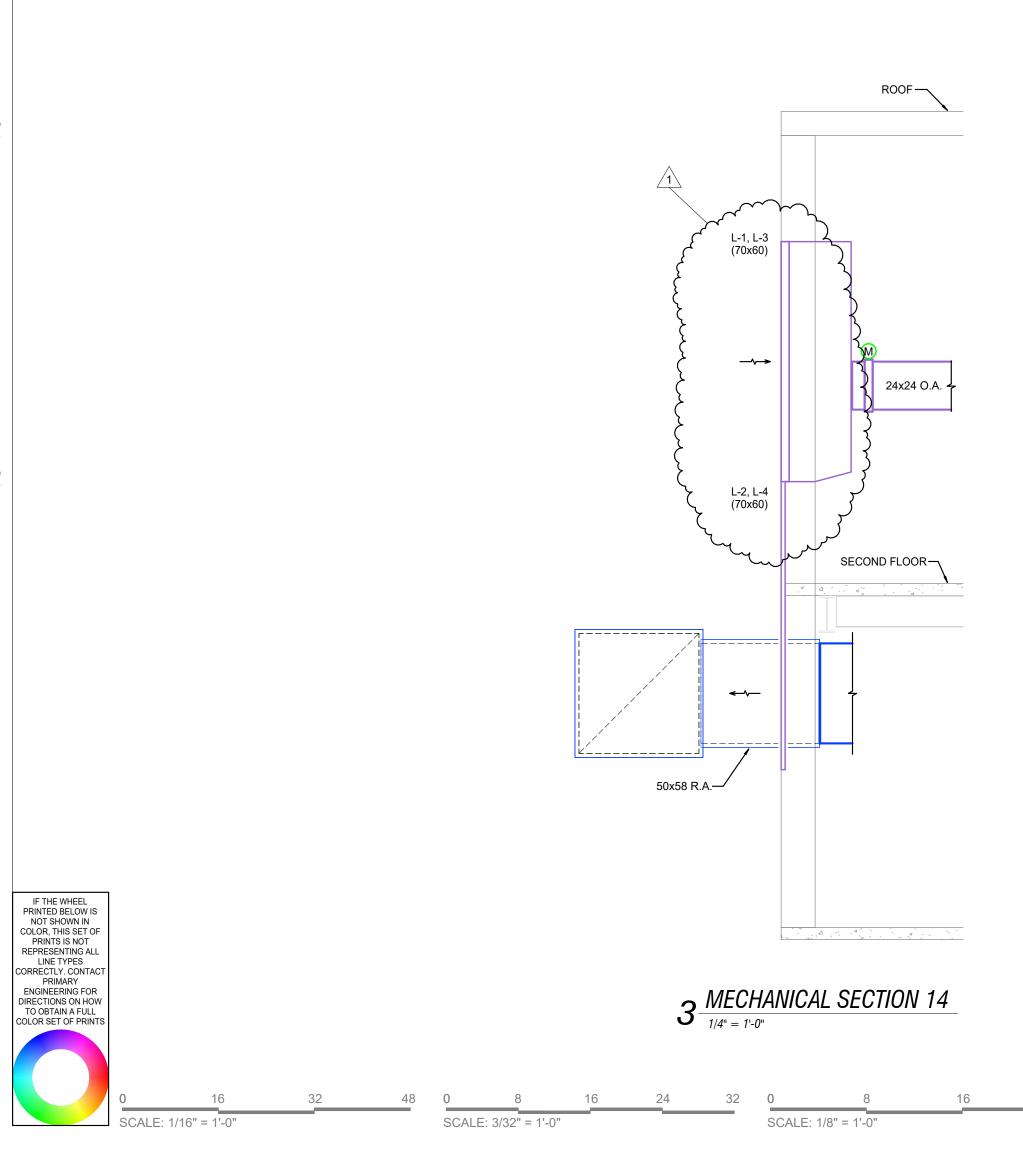
(X)	PLAN NOTES
1.	PROVIDE AND INSTALL NEW EQUIPMENT ON NEW CONCRETE PAD. REFER TO EQUIPMENT PAD DETAIL ON DRAWING SHEET M401 FOR MORE INFORMATION.
2.	CORE DRILL EXISTING MASONRY WALL FROM EXTERIOR FOR NEW MEP PENETRATIONS. SEAL WITH GROUT.
3.	VERIFY EXACT REQUIREMENTS WITH MANUFACTURER FOR REFRIGERANT PIPING.
4.	PROVIDE AND INSTALL 20 MIL SELF-ADHESIVE ALUMINUM JACKETING ON ALL EXPOSED OUTDOOR PIPING AND DUCTWORK. ALL JACKETING 6-0" ABOVE GRADE OR HIGHER SHALL BE FACTORY PAINTED ALUMINUM. CUSTOM COLOR SELECTION BY OWNER.
5.	MAINTAIN MANUFACTURER'S CLEARANCE REQUIREMENTS FOR SERVICE AND AIRFLOW.
6.	PROVIDE AND INSTALL B-LINE DURA BLOK PIPE SUPPORTS FOR NEW PIPING. REFER TO MANUFACTURER'S REQUIREMENTS FOR EXACT QUANTITY AND SPACING OF SUPPORTS.
7.	ALL EXPOSED OUTDOOR GAS PIPING SHALL BE PAINTED BY PROPER TRADES. REMOVE SURFACE CORROSION AND PREPARE PIPE SURFACES FOR PAINTING. PAINT SHALL BE ALKYD SYSTEM MPI EXT 5.1D WITH METAL PRIMER AND (2) COATS SEMIGLOSS YELLOW ENAMEL.
8.	REFER TO CIVIL DRAWINGS FOR MORE INFORMATION. COORDINATE WITH SITE CONTRACTOR.
9.	PROVIDE AND INSTALL NEW LOUVER IN EXISTING WALL OPENING. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
10.	CONCRETE PAD SLOPED PER CIVIL DRAWINGS. PROVIDE AND INSTALL AHU-1 ON FULL PERIMETER FIELD FABRICATED WELDED STRUCTURAL STEEL BASE CONSTRUCTED TO ACCOMMODATE SLOPED PAD AND PROVIDE LEVEL MOUNTING SURFACE FOR AHU-1.
11.	SUPPORT DUCTWORK FROM GRADE. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION. TYPICAL. SUPPORTS SPACED MAXIMUM 10'-0" O.C.
12.	OUTDOOR DUCTWORK SHALL BE INSULATED WITH MINIMUM 2" THICK POLYISOCYANURATE FOAM BOARD. TOP OF DUCT SLOPED TO SHED WATER.
13.	ROUTE GAS PIPING BELOW GRADE TO NEW AHU-1. UNDERGROUND GAS PIPING SHALL BE HDPE.
14.	ROUTE NEW CONDENSATE PIPING EXPOSED ON GRADE TO NEW STORM INLET. REFER TO CIVIL DRAWINGS. CONDENSATE PIPING SHALL BE COPPER.
15.	PROVIDE AND INSTALL HEAT TRACE HT-1 ON EXTERIOR CONDENSATE PIPING. INSULATE AROUND PIPING AND HEAT TRACE WITH MINIMUM 1" THICK FLEXIBLE ELASTOMERIC.
16.	REINSTALL SALVAGED CONDENSING UNIT TO BE FULLY FUNCTIONAL. EXTEND PIPING AND CONTROLS AS REQUIRED. PROVIDE AND INSTALL NEW WALL MOUNT KIT.
17.	RECONNECT NEW DUCTWORK TO EXISTING AIR HANDLING UNIT.
18.	MAINTAIN MINIMUM 7'6" CLEARANCE ABOVE FINISHED FLOOR/GRADE TO BOTTOM OF DUCT.

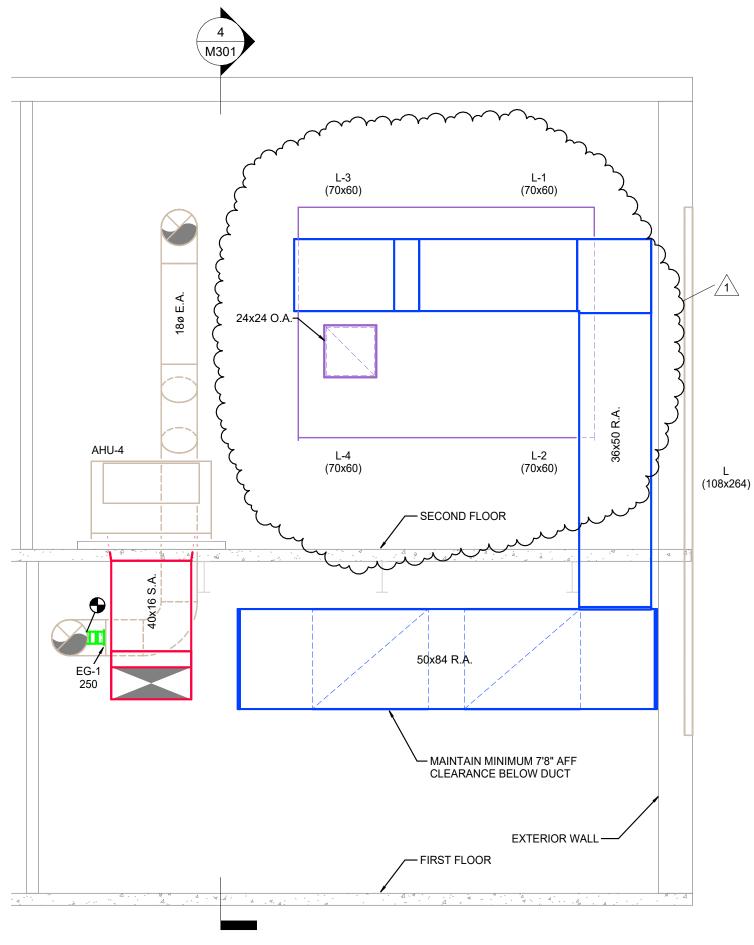
MODIFY EXISTING WET-SYSTEM FIRE SUPPRESSION PIPING AND SPRINKLER HEADS AS REQUIRED FOR NEW DUCTWORK AND EQUIPMENT, THIS ROOM.



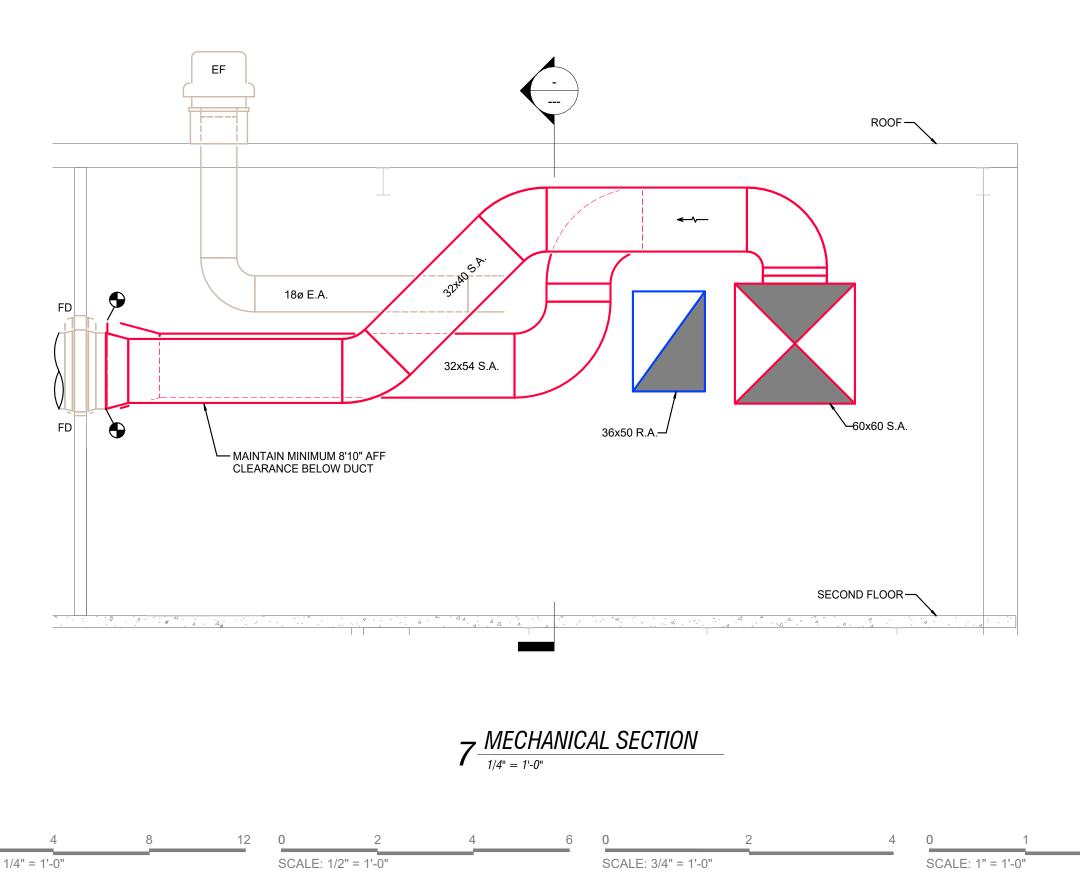


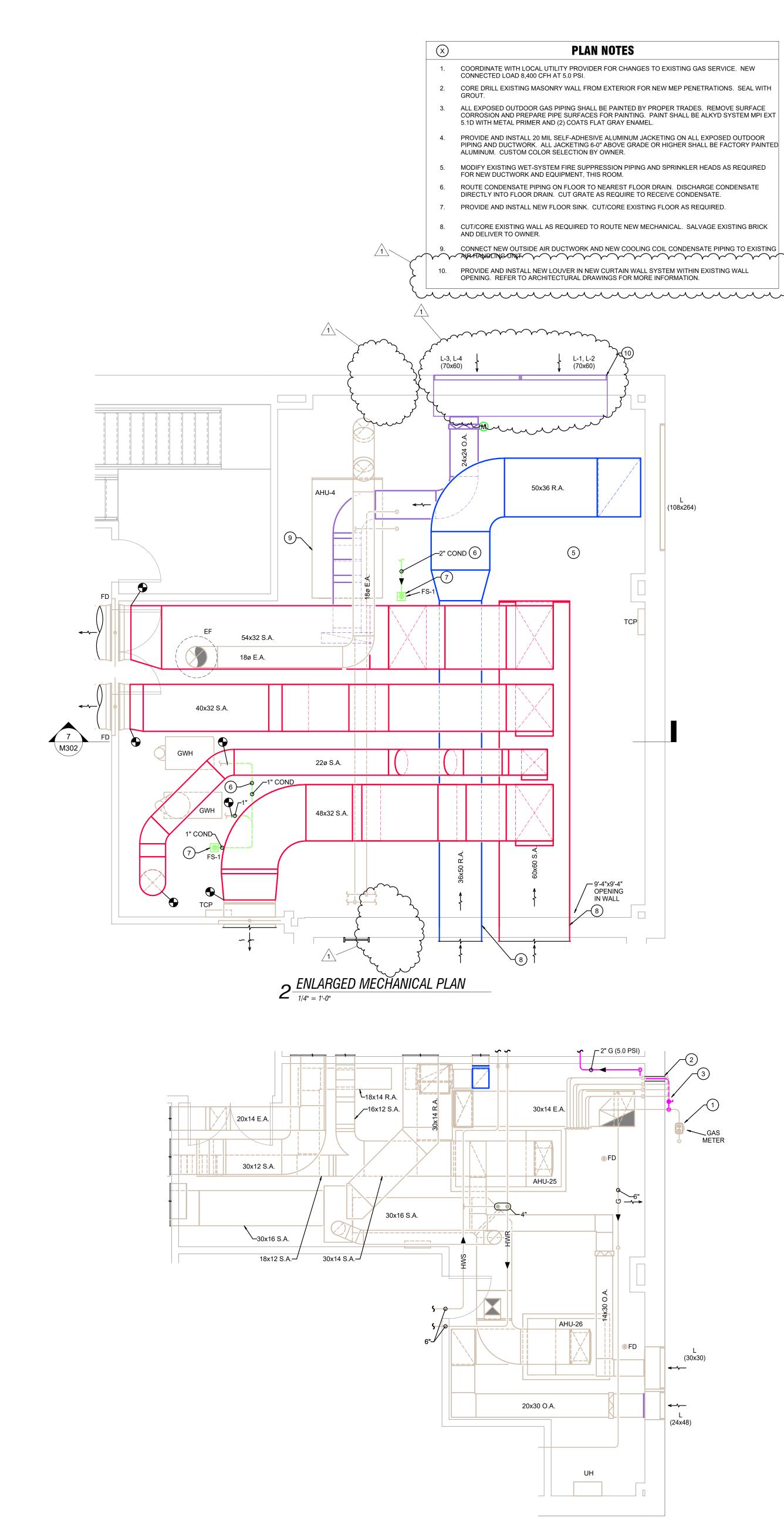




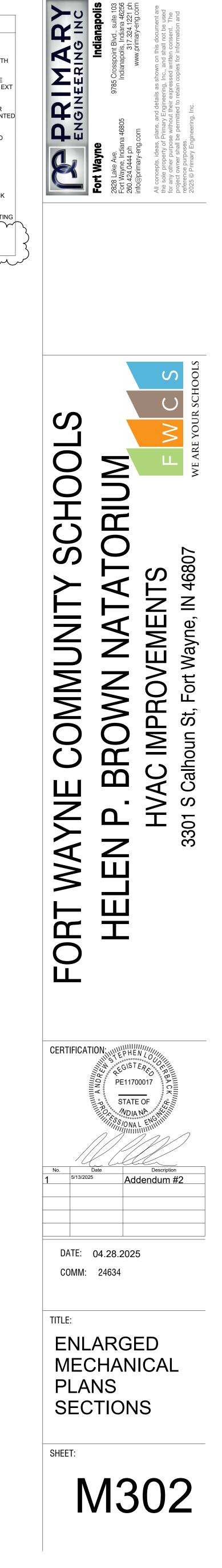


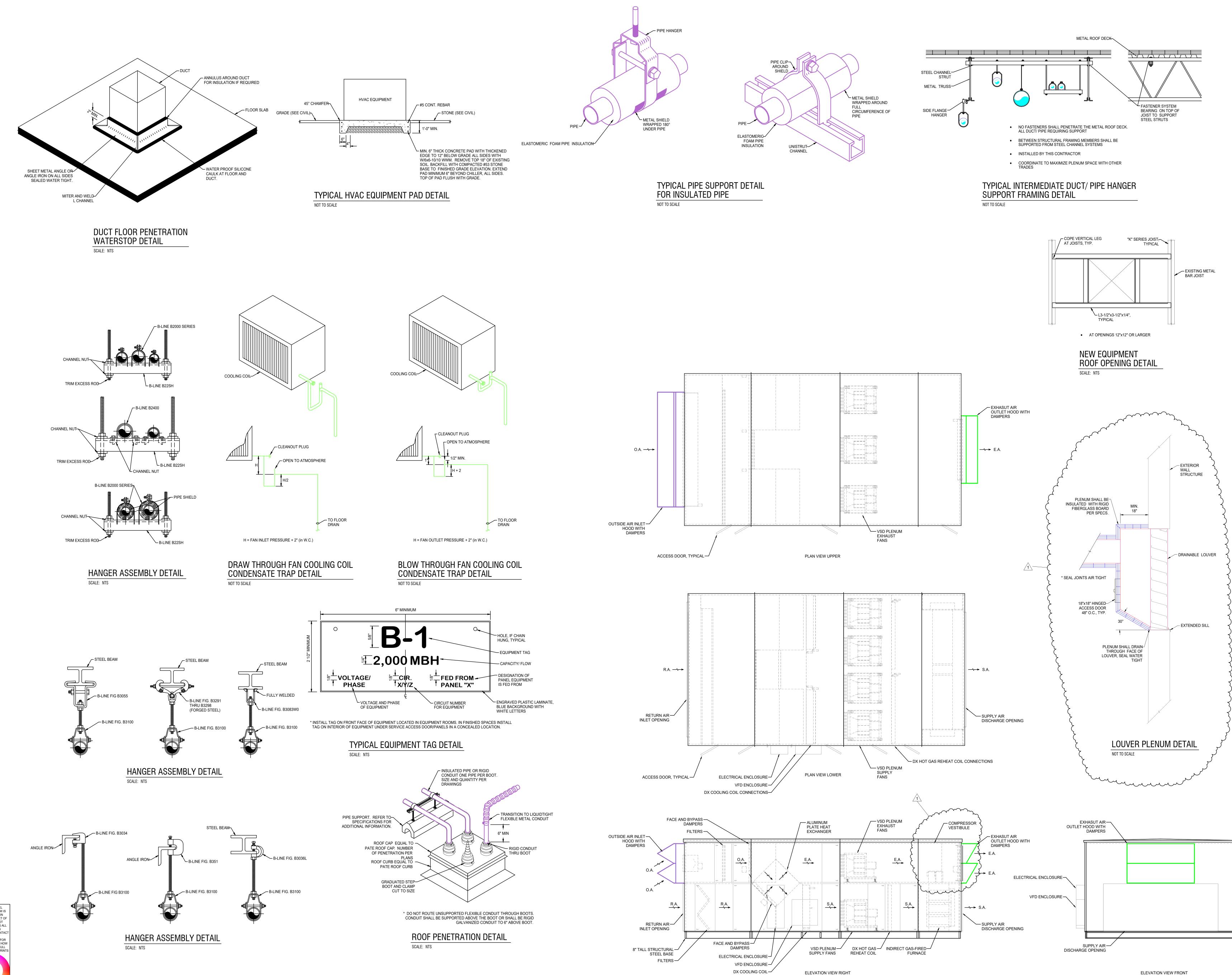
 $8^{\frac{MECHANICAL SECTION}{1/4^{n} = 1^{1}-0^{n}}}$ 





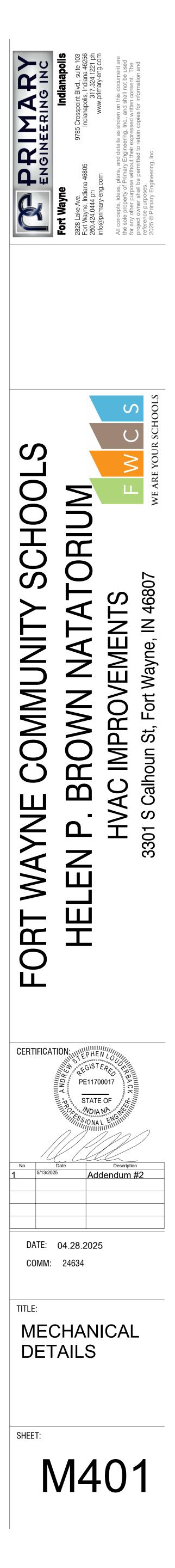
 $1 \frac{ENLARGED MECHANICAL PLAN}{\frac{1}{4"} = 1' - 0"}$ 





AHU-1 DETAIL NTS

ELEVATION VIEW FRONT





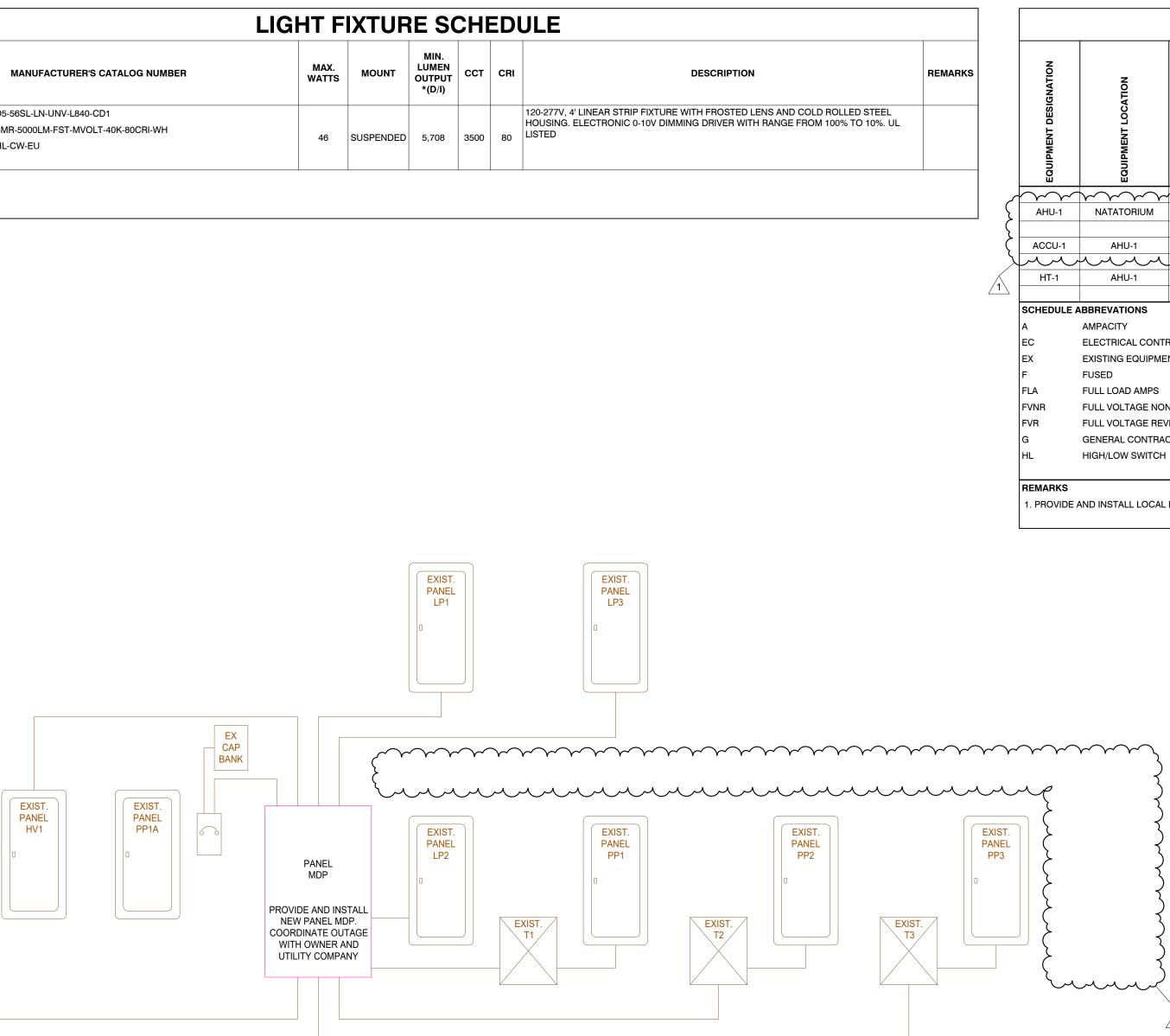
TAG METALUX #4SNLED-LD5-56SL-LN-UNV-L840-CD1 LITHONIA #Z1LD-L48-SMR-5000LM-FST-MVOLT-40K-80CRI-WH L1 COLUMBIA #MPS4-40HL-CW-EU REMARKS:

EXIST. PANEL HV1

EXIST. UTILITY COMPANY

TRANSFORMER

<u>}_____</u>



1 PARTIAL POWER DIAGRAM

	EQUIPMENT SCHEDULE																			
5			CIRCUIT INFORMATIO	N		DI	SCONNE	СТ		Q	VARIA FREQUENO DRIVE (N	CY/SPEED		SO		ГЕ МОТС	OR START	ER		
	EQUIPMENT LOAD	VOLTAGE/PHASE	CONDUIT AND CONDUCTOR SIZE	BRANCH CIRCUIT DESIGNATION	PROVIDED BY	FUSED OR NON-FUSED	NEMA ENCLOSURE	DISCONNECT SWITCH SIZE	FUSE RATING	EQUIPMENT MOUNTED CONTROL PANEL	PROVIDED BY	INSTALLED BY	PROVIDED BY	NEMA SIZE	CONTROL	TYPE	DISCONNECT SWITCH SIZE	FUSE RATING	NEMA ENCLOSURE	REMA
$\sim\sim$	$\frown \frown \frown \frown \frown$	$\sim \sim \sim$		1																
ORIUM	485 MCA	480V/3PH	(2 SETS) 3"C, 4-#350KCMIL, 1-#1 GND	MDP-16	INT															
				3																
J-1	45 MCA	480V/3PH	3/4"C, 4-#10, 1-#10 GROUND	LP3-7(9,11)	EC	NF	3R	400/3	Х											
$\sim$	m	m	m	~																
J-1	1200W	277V/1PH	3/4"C, 2-#10, 1-#10 GROUND	LP3-13	EC	NF	ЗR	20/1	Х						тсс					1
IONS ′		HLO	HIGH/LOW/OFF SWITCH	MHLO	MOMEN	ITARY HI	GH/LOW/	OFF SWI	СН											
AL CONT	RACTOR	HOA	HAND/OFF/AUTO	NF	NON-FU	ISED														
EQUIPME	NT	HP	HORSE POWER	0	OWNER	FURNIS	HED AND	INSTALL	ED											
		INT	INTEGRAL WITH EQUIPMENT	RLA	RUNNIN	IG LOAD	AMPS													
D AMPS		LOR	LOCAL/OFF REMOTE SWITCH	S	ON/OFF	SWITCH														
TAGE NO	N-REVERSING	Μ	MOMENTARY ON/OFF SWITCH	W	WATTS															
TAGE REV	/ERSING	MC	MECHANICAL CONTRACTOR	XA/YP	X AMP C	CIRCUIT E	BREAKER	I, Y POLE												
CONTRA	CTOR	XAF	SWITCH	WITH X	AMP FUS	SE(S)														
/ SWITCH		MHL	MOMENTARY HIGH/LOW SWITCH																	

1. PROVIDE AND INSTALL LOCAL DISCONNECT MOUNTED ON AHU-5, COORDINATE LOCATION. WIRE THROUGH CONTROL RELAY PROVIDED BY TCC.

PANEL: MOUNTING TYPE: PANEL REMARKS: HINGED DOOR COVER,		MDP NEW SURFACE COPPER BUS, 100% RATED NEUTRAL BUS		MCB: K.A.I.C.: FED FROM:	800 AMPERE SER 18 UTILITY		VOLTAGE: PHASE: WIRE:	: 277/480 3 4+G		
REMARKS	CKT NO.	BRK SIZE	LOAD DESCRIPTION	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD DESCRIPTION	BRK SIZE		REMA
1	15	600A/3P	PANEL LP-3	0	0	0	AHU-1 (NEW)	600A/3P	16	
				0	- 0	0	- Current	m	m	
1	1	15A/3P	PUMPS 16 & 17 / RAF-A-1	0	0	0 0	PUMPS 18 & 19	15A/3P	2	1
1	3	20A/3P	UV SYSTEM	0	0 0	0	CONDENSER A2	15A/3P	4	1
1	5	70A/3P	TRANSFORMER T1	0	0 0	0 0 0	PHASE LOSS MONITOR	70A/3P	6	1
1	7	70A/3P	TRANSFORMER T2	0	0 0	0 0	ELEVATOR	70A/3P	8	1
1	9	70A/3P	TRANSFORMER T3	0 24725	0 24725	0	PUMPS 7A & 7B	125A/3P	10	1
1	. 11	150A/3P	PANEL LP1	0	0 0	0	PANEL LP2	150A/3P	12	1
1	13	250A/3P	DEHUMIDIFIER #3 SPARE	0	0	0	PANEL HV-1	250A/3P	14	1
				24,725	24,725	0 24,725				

# REMARKS 1. EXISTING LOAD TO BE RECONNECTED

PANEL: MOUNTING TYPE: PANEL REMARKS: HINGED DOOR COVER,		LP3 EX-REVISED SURFACE EATON CH POW-R-LINE C PRL3a COPPER BUS, 100% RATED NEUTRAL BUS		MLO: K.A.I.C.: FED FROM:	600 AMPERE 18 MDP		VOLTAGE: PHASE: WIRE:	277/480 3 4+G		
REMARKS	CKT NO.	BRK SIZE	LOAD DESCRIPTION	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD DESCRIPTION	BRK SIZE	CKT NO	REMA
			BLANK	0	0 0	0	SPACE		SUB 3	
				0 36010		0	DEMO AHU-1			
			BLANK		0 36010	0	NEW AHU-1	200A/3P	SUB 2	
				0	-	36010	DEMO AHU-2			3
			BLANK	0	0		SPARE	200A/3P	SUB 1	3
					-	0				3
	1		DEMO ACCU-1 / ACCU-2	0			SPACE		2	1
	3	50A/3P	SPARE		0		SPACE		4	1
~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~		-	0	SPACE		6	1
1	7							20A/1P	8	4
1	9	45A/3P	ACCU-1 (NEW)	}	0			20A/1P	10	4
	<u>الم</u>	hall	the property of the pro-	5		0		20A/1P	12	4
3	13	20A/1P	HT-1 (AHU-5)	1200 0	_			20A/1P	14	4
4	15	20A/1P			0			20A/1P	16	4
4	17	20A/1P			-	0		20A/1P	18	4
4	19	20A/1P		0 2410	_				20	3
4	21	20A/1P			0 2410		AHU-4	15A/3P	22	3
4	23	20A/1P			-	0 2410			24	3
	25		BLANK	0	_		BLANK		26	
2	27				0				28	2
2	29	20A/3P	PUMP 4		-	0	BOOSTER PUMP (ADDED 2005 E2.1)	15A/3P	30	2
2	31			0					32	2
2	33				0		SPACE		34	1
2	35	15A/3P	PUMP 5			0 0	SPACE		36	1
2	37			0 0 39,620	38,420	38,420	SPACE		38	1

EXISTING LOAD TO REMAIN
 NEW LOAD ON EXISTING BREAKER
 EXISTING SPARE BREAKER

