3ING SYMBOL LEGEND BE USED

	MECHANICAL P	PIPING	PIPING SYMBOI	<u>_S</u>
	RL	- REFRIGERANT LIQUID	$\neg \bowtie$	SHUTOFF VALVE
	—— RS ——	- REFRIGERANT SUCTION	— · >	SHUTOFF VALVE IN RISER
	D	- DRAIN (CONDENSATE)	—b×b—	BALANCING VALVE
	—— СА ——	– COMPRESSED AIR	—X—	PLUG VALVE
	—— CWS ——	- CHILLED WATER SUPPLY	—	AUTO FLOW CONTROL VALVE
	—— CWR ——	- CHILLED WATER RETURN	—ю	PIPING ELBOW UP
	— C/HWS —	– CHILLED/HOT WATER SUPPLY	 >	PIPING ELBOW DOWN
		- CHILLED/HOT WATER RETURN	—+ <mark>+</mark> +—	PIPING TEE
		- HOT WATER SUPPLY	<u>+</u>	PIPING ELBOW
G VANES)		- HOT WATER RETURN	_ю́	PIPING TEE UP
2		- COOLING TOWER SUPPLY		PIPING TEE DOWN
(GRAVITY)		- COOLING TOWER RETURN	— 4 —	INCREASER / REDUCER
(,		- STEAM (ANY #'S DENOTE PRESSURE)	#	UNION
		- CONDENSATE RETURN (#'S DENOTE PRESSURE)]	CAP
		- REFRIGERANT VENT		PIPE FLEX
		- RUPTURE DISK		
		- RUPTURE DISK		STRAINER
				CHECK VALVE
	PLUMBING PIPI		-+ᢕᢩ+–	INLINE STRAINER
		- DOMESTIC COLD WATER	<u> </u>	TEST PLUG
		- DOMESTIC HOT WATER		GUIDE
		- RECIRCULATING DOMESTIC HOT WATER	— × —	ANCHOR
		- WASTE ABOVE GRADE OR FLOOR	—Q_	TRIPLE DUTY VALVE
		- WASTE BELOW GRADE OR FLOOR - STORM ABOVE GRADE OR FLOOR	-Ř-	AUTOMATIC 2-WAY CONTROL VALVE
		- STORM ABOVE GRADE OR FLOOR - STORM BELOW GRADE OR FLOOR	<u> </u>	AUTOMATIC 3-WAY CONTROL VALVE
		- STORM OVERFLOW ABOVE GRADE OR FLOOR	- 41 に	
	•	- STORM OVERFLOW BELOW GRADE OR FLOOR		SOLENOID VALVE
	•	- PLUMBING VENT	PIPING SPECIA	TIES
	—— <i>w</i> ——	- WATER SERVICE		
		- GAS (NATURAL)		PRESS/ TEMP GAUGE WITH COCK
		- FROM SUMP PUMP DISCHARGE	—+ ¹ +— —+ ¹ +— m	
	—— СА ——	– COMPRESSED AIR	Щ	THERMOMETER.
	LP	- PROPANE		
	SCW	- SOFT DOMESTIC COLD WATER		PRESSURE REDUCING VALVE
	—— SHW ——	- SOFT DOMESTIC HOT WATER	\mathbb{U}	
		- SOFT RECIRCULATING HOT WATER	一次	RELIEF VALVE
BELOW)	—— ACID ——	- ACID WASTE	, U	
		- ACID WASTE VENT	<u>,,,,,</u>	WATER HAMMER ARRESTER
		- NON-POTABLE		
L		- DEIONIZED WATER		
-	—— R0 ——	- REVERSE OSMOSIS WATER		URES/EQUIPMENT HOSE BIBB
				WALL HYDRANT
	FIRE SPRINKLE	<u>R</u>	-==WH	CLEAN OUT
	—— F ——	FIRE PROTECTION PIPING		
	<u> </u>	SPRINKLER HEAD	RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
		SIDEWALL SPRINKLER HEAD		DOUBLE CHECK BACKFLOW PREVENTER
	Ŷ	FIRE PROTECTION SIAMESE CONNECTION		PLUMBING FIXTURE AND CALLOUT
	—+⊗ —	POST INDICATOR VALVE	<u>₩C-1</u> <u>S-1</u> ● 目 <u>FD-1</u>	FD: FLOOR DRAIN, AD: AREA DRAIN,
			~	FS: FLOOR SINK RD: ROOF DRAIN
			(()) <u>RD-1</u>	RD: ROOF DRAIN ORD: OVERFLOW ROOF DRAIN

JEND BE USED POWER DEVICES FIRE ALARM F DUPLEX RECEPTACLE. MANUAL PULL STATION Φ \bigcirc Ð LINE THRU DEVICE INDICATES ABOVE COUNTER CEILING SMOKE DETECTOR SPECIAL DUPLEX RECEPTACLE $\langle D \rangle$ DUCT SMOKE DETECTOR (GFCI, ISOLATED GROUND, ETC.) 'TIRELY HEAT DETECTOR QUADPLEX RECEPTACLE ■ WF WATERFLOW SWITCH Θ_{5-50R} simplex receptacle w/nema config as noted ■ TS TAMPER SWITCH €_____5__50R MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED VISIBLE NOTIFICATION DEVICE WITH CANDELA RATING. CEILING MOUNTED RECEPTACLE 75cd RATING UNLESS OTHERWISE NOTED ON PLANS. Θ AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH CANDELA RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE" ⊠⊲30 RATING. 75cd UNLESS OTHERWISE NOTED ON PLANS. POKE-THRU WITH POWER $\Box \Box$ HORN POKE-THRU WITH TELECOMMUNICATIONS CEILING-MOUNTED STROBE LIGHT WITH CANDELA RATING. MINIMUM OF 75cd RATING. POKE-THRU W/POWER AND TELECOM CEILING-MOUNTED COMBINATION HORN/STROBE WITH 1G SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR) CANDELA RATING. MIN. OF 75cd RATING. DIVIDED POWER POLE CEILING-MOUNTED HORN CLOCK RECEPTACLE (C) CEILING-MOUNTED SPEAKER PLUG MOLD / WIRE MOLD AS SPECIFIED RELAY (J)JUNCTION BOX FACP FIRE ALARM CONTROL PANEL . MTD) ₽Ĵ THERMOSTAT – ELECTRIC FAAP FIRE ALARM ANNUNCIATOR PANEL 'NG MTD) ĽН PUSH BUTTON FARA REMOTE ANNUNCIATOR PANEL ∕⊙∕ MOTO FAEC FIRE ALARM EXTENDER CABINET DH DOOR HOLDER TELEPHONE/DATA TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) (D)_{120V} SINGLE / MULTI-STATION 120V SMOKE ALARM 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING) ZAM LINE THRU DEVICE INDICATES ABOVE COUNTER ZONE ADDRESSABLE MODULE DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" INDIVIDUAL ADDRESSABLE MODULE CONDUITS TO ABOVE ACCESSIBLE CEILING) KITCHEN HOOD FIRE SUPPRESSION SYSTEM PANEL HFSS LEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.) H KITCHEN HOOD REMOTE PULL STATION PHONE OUTLET WITH NUMBER OF PHONE JACKS AS ARA $\triangleleft 1V$ AREA OF RESCUE ASSISTANCE STATION INDICATED – SEE DETAILS FOR ADD'L INFO. ARAM AREA OF RESCUE ASSISTANCE MASTER STATION DATA OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED – SEE DETAILS FOR ADD'L INFO. PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA <u>SECURITY</u> **◀** 1D/1V JACKS AS INDICATED – SEE DETAILS FOR ADD'L INFO. FIXED CAMERA H(W) WALL-MOUNTED WIRELESS INTERNET TRANSMITTER PTZ 🖈 PAN/TILT/ZOOM CAMERA $\langle W \rangle$ CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER PROX PROXIMITY TYPE CARD READER AUDIO/VISUAL CARD SWIPE CARD READER TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING) BG BREAK GLASS DETECTOR REVERSE TELEVISION OUTLET – CABLE TO HEAD END ES ELECTRIC STRIKE TDC TEACHER'S DESK CONNECTIONS - RE: DETAILS MD SECURITY MOTION DETECTOR STARTER НS KP KEYPAD / MAG LOCK WALL SPEAKER THERMAL /PUMPS. (১ B BUTTON / MAG LOCK CEILING SPEAKER HSA WALL SPEAKER – HORN TYPE ⟨S∕\] CEILING SPEAKER – HORN TYPE (S)_{SUB} CEILING SPEAKER – SUBWOOFER (ER CEILING SPEAKER - SOUND SYSTEM НØ VOLUME CONTROL INTERCOM CALL STATION INTERCOM HANDSET SOUND SYSTEM AUDIO JACK

REMOTE MICROPHONE CONTROL

INTERCOM MASTER STATION

PUBLIC ADDRESS SYSTEM AMPLIFIER

PAS

IMS

M/C MECHANICAL (dia diameter MA MIXED AIR DN DOWN MAU MAKE UP AIR O E/C ELECTRICAL CONTRACTOR MCB MAIN CIRCUIT EXHAUST AIR MECH MECHANICAL EDF ELECTRIC DRINKING FOUNTAIN MH MANHOLE

ABBREVIATIONS

AHJ AUTHORITY HAVING JURISDICTION

BMS BUILDING MANAGEMENT SYSTEM

CM COORDINATE MOUNTING HEIGHT

DCVA DOUBLE CHECK VALVE ASSEMBLY

DHWR DOMESTIC HOT WATER RETURN

A/E ARCHITECT / ENGINEER

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

AHU AIR HANDLING UNIT

BFP BACKFLOW PREVENTER

AG ABOVE GRADE

ARCH ARCHITECT

BLDG BUILDING

CD

CO

BG BELOW GRADE

CONDUIT

CLEAN OUT

CTE CONNECT TO EXISTING

DCW DOMESTIC COLD WATER

DF DRINKING FOUNTAIN

DHW DOMESTIC HOT WATER

DDC DIRECT DIGITAL CONTROLS

CANDELA

CD COLD DECK

CLG COOLING

CONDENSING UNIT COIL HAIL GUARD 🥆

& SUCTION PIPING

INSTALLATIONS UNTIL EXAMINED BY NSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION. 4. COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION. AS DEMONSTRATED E THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE. 5. PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED. 6. PROVIDE SLEEVES THROUGH ALL FIRE_RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS. 7. FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS. 8. PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

3. DO NOT COVER UP THROUGH—PENETRATION FIRESTOP SYSTEM

ELEV	ELEVATION	MLO	MAIN LUGS ONLY
ЕМ	EMERGENCY FIXTURE/DEVICE	NFA	NET FREE AREA
EWT	•	NL	NIGHT LIGHT
ΕX	EXISTING ITEM	OA	OUTSIDE AIR
FFA	FROM FLOOR ABOVE	ORD	OVERFLOW ROOF
FFB	FROM FLOOR BELOW	P/C	PLUMBING CONTR
FFC0	FINISHED FLOOR CLEAN OUT	PSI	POUNDS PER SQ
FGCO	FLUSH GRADE CLEAN OUT	PVC	POLYVINYLCHLORI
FL	FLOW LINE	RA	RETURN AIR
FLR	FLOOR	RE/REF	REFER / REFERE
FP	FIRE PROTECTION	RF	RELIEF FAN
FPM	FEET PER MINUTE	RL	RELOCATED ITEM
FWCO	FLUSH WALL CLEAN OUT	RPZ	REDUCED PRESS
G	GROUND / GANG	RR	RESTROOM
G/C	GENERAL CONTRACTOR	SA	SUPPLY AIR
ĠFCI	GROUND FAULT CIRCUIT INTERUPTER	SPD	SURGE PROTECTI
GPM	GALLONS PER MINUTE	ST	SHUNT TRIP
HD	HOT DECK	TA	TRANSFER AIR
HTG	HEATING	TFA	TO FLOOR ABOVE
IG	ISOLATED GROUND	TFB	TO FLOOR BELOW
JB	JUNCTION BOX	TP	TAMPERPROOF
LED	LIGHT EMITTING DIODE	TYP	TYPICAL
LWT	LEAVING WATER TEMPERATURE	UNO	UNLESS NOTED C
м/С	MECHANICAL CONTRACTOR	VRF	VARIABLE REFRIG
MA	MIXED AIR	VTR	VENT THROUGH F
MAU	MAKE UP AIR UNIT	WCO	WALL CLEANOUT
	MAIN CIRCUIT BREAKER	WG	WIRE GUARD
MECH	MECHANICAL	WP	WEATHERPROOF

I LUGS ONLY FREE AREA t light SIDE AIR RFLOW ROOF DRAIN MBING CONTRACTOR NDS PER SQUARE INCH YVINYLCHLORIDE JRN AIR ER / REFERENCE F FAN OCATED ITEM UCED PRESSURE ZONE TROOM PLY AIR *SE PROTECTIVE DEVICE* IT TRIP NSFER AIR LOOR ABOVE FLOOR BELOW PERPROOF ESS NOTED OTHERWISE

ABLE REFRIGERANT FLOW THROUGH ROOF . CLEANOUT

PROVIDED BY THE M/C CONTRACTOR OR SUBS. 3. ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE. 4. ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES

- REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED. 5. EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH
- A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES. 6. START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

GENERAL PLUMBING NOTES 1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE

- LATEST ADOPTED VERISION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ. 2. NO PIPING SHALL BE INSTALLED WHERE IT WILL SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE. 3. PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
- 3.1. IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART. 3.2. IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT. 3.3. EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45
- DEGREES.WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE DIDIN 3.4. AT THE BASE OF EACH WASTE OR SOIL STACK.

3.5. NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

GENERAL ELECTRICAL NOTES 1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE

- LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ. 2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH
- ARCHITECTURAL CASEWORK AND ELEVATIONS 3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF
- ALL DEVICES NOT INDICATED OTHERWISE. 4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED
- 5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

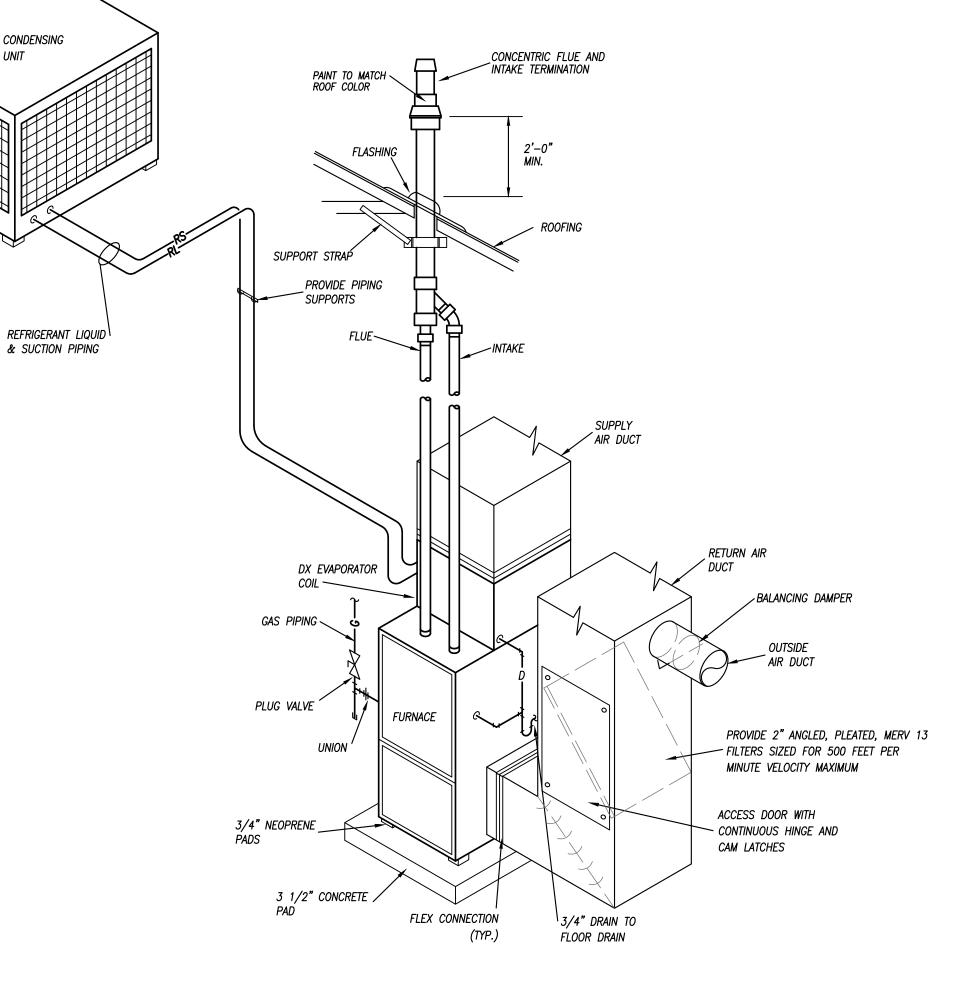
SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING. 3. COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.

- 4. CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO INSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION. 6. WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO INSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE
- CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS 7. COORDINATE. PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE. 8. DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS
- SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. 9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. 10. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES. BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE
- THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM. 11. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE
- MEETINGS WITH ALL RELATED SUBCONTRACOTRS TO COORDINATE THE WORK BETWEEN TRADES . DRAWINGS SHALL CLEARLY SHOW TH WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD. 12. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL

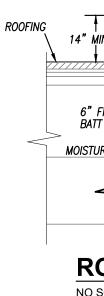
NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO

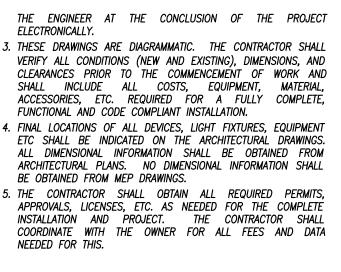
ACCOMPLISH THE WORK.

THAT WAS NEEDED OF . EXISTING UPON ANT DURING CC SAWCUT G SYSTEMS, CARE TO EXISTING (4. SAWCUT GRADE SLA EXISTING OPENINGS HOMERUN PANELBOAR AVAILABLE PROVIDE N . EXISTING CI



FURNACE AND CONDENSING UNIT DETAIL NO SCALE

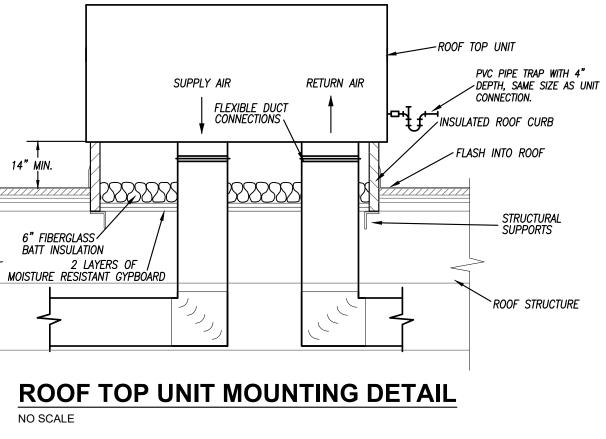




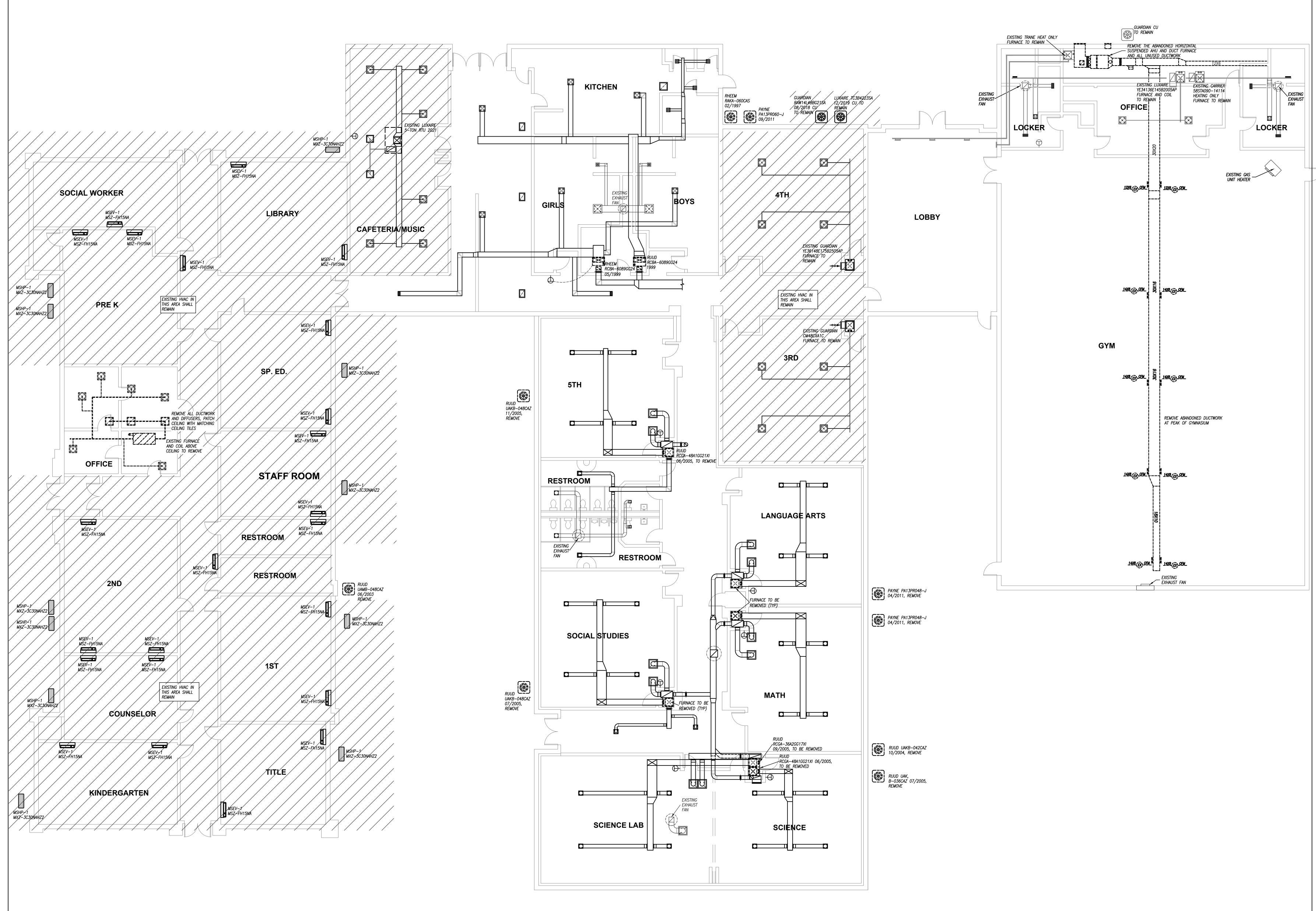
GEN. RENOVATION NOTES . DISCONNECT AND REMOVE ANY EQUIPMENT. PIPING OR DUCTWORK

1.	DISCONNECT AND REMOVE ANY EQUIPMENT, PIPING OR DUCTWORK
	THAT WAS INSTALLED AS PART OF THE BUILDING SHELL THAT IS NOT
	NEEDED OR CONFLICTS WITH THIS BUILD OUT.
2.	EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATED BASED
	UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS
	DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.
3.	SAWCUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MECHANICAL
	SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED CONDUIT,
	ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE
	CARE TO LOCATE EXISTING CONDUIT, ETC AND AVOID CUTTING
	EXISTING CONDUITS BY NOT OVERCUTTING SLAB DEPTH.
4.	SAWCUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE
	GRADE SLAB PENETRATIONS. XRAY SLABS TO ASCERTAIN STEEL AND
	EXISTING CONDUIT PENETRATIONS PRIOR TO CUTTING. VERIFY
	OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING.
5.	HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAKERS IN
	PANELBOARDS INDICATED. UTILIIZE SPARE BREAKERS MADE
	AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS AVAILABLE,
	PROVIDE NEW BREAKER.
6.	EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE.
7.	CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW
	DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING

IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALLED AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT MANNER.

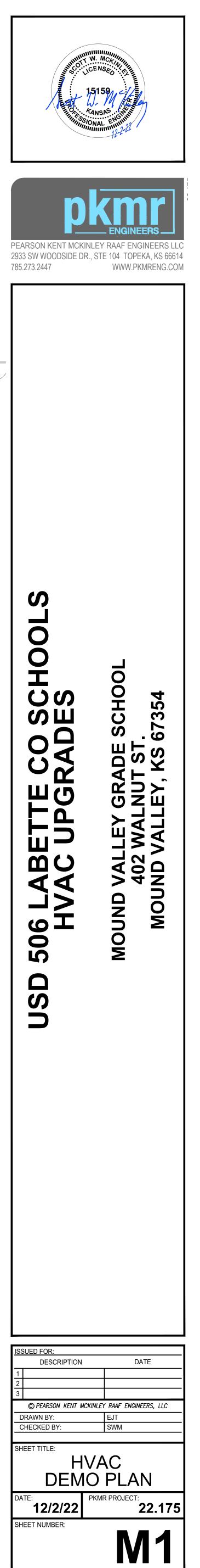


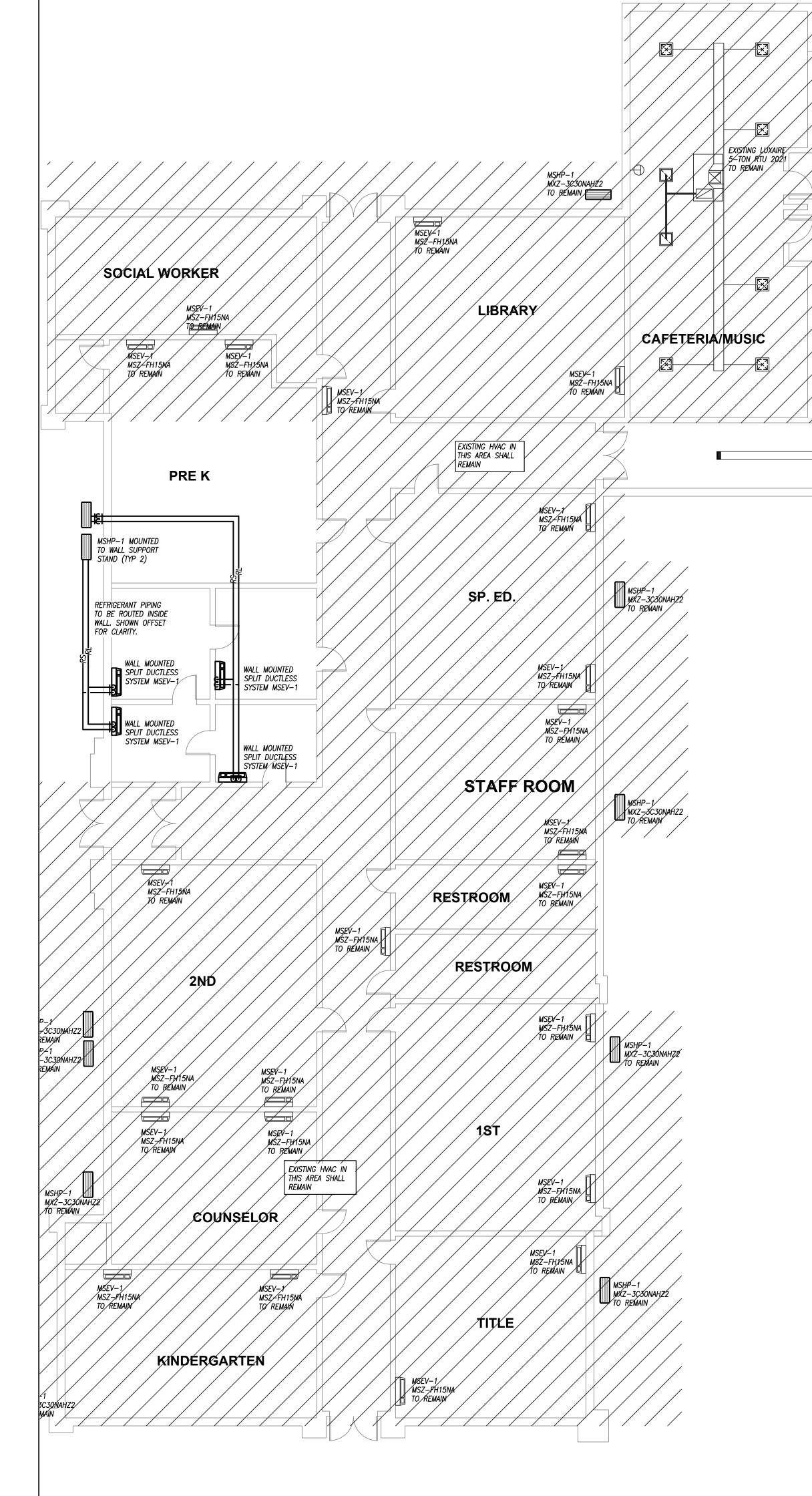
PEARSON KENT MCKINI EY RAAF ENGINEERS L 2933 SW WOODSIDE DR., STE 104 TOPEKA, KS 66614 785.273.2447 WWW.PKMRENG.COM C C S S S I S SIL **m** C S 0 ш٢ NDE KS $\mathbb{C} \supset \mathcal{F}$ Шc ŨZШ **U**P LEY WAI В С В С VAL 402 ND Ο Ζ Σ **O** Ο 0 S S SSUED FOR: DATE DESCRIPTION © PEARSON KENT MCKINLEY RAAF ENGINEERS, LLC DRAWN BY: CHECKED BY: SHEET TITLE: HVAC SYMBOLS & DETAILS PKMR PROJECT: 12/2/22 22.175 SHEET NUMBER: ME1

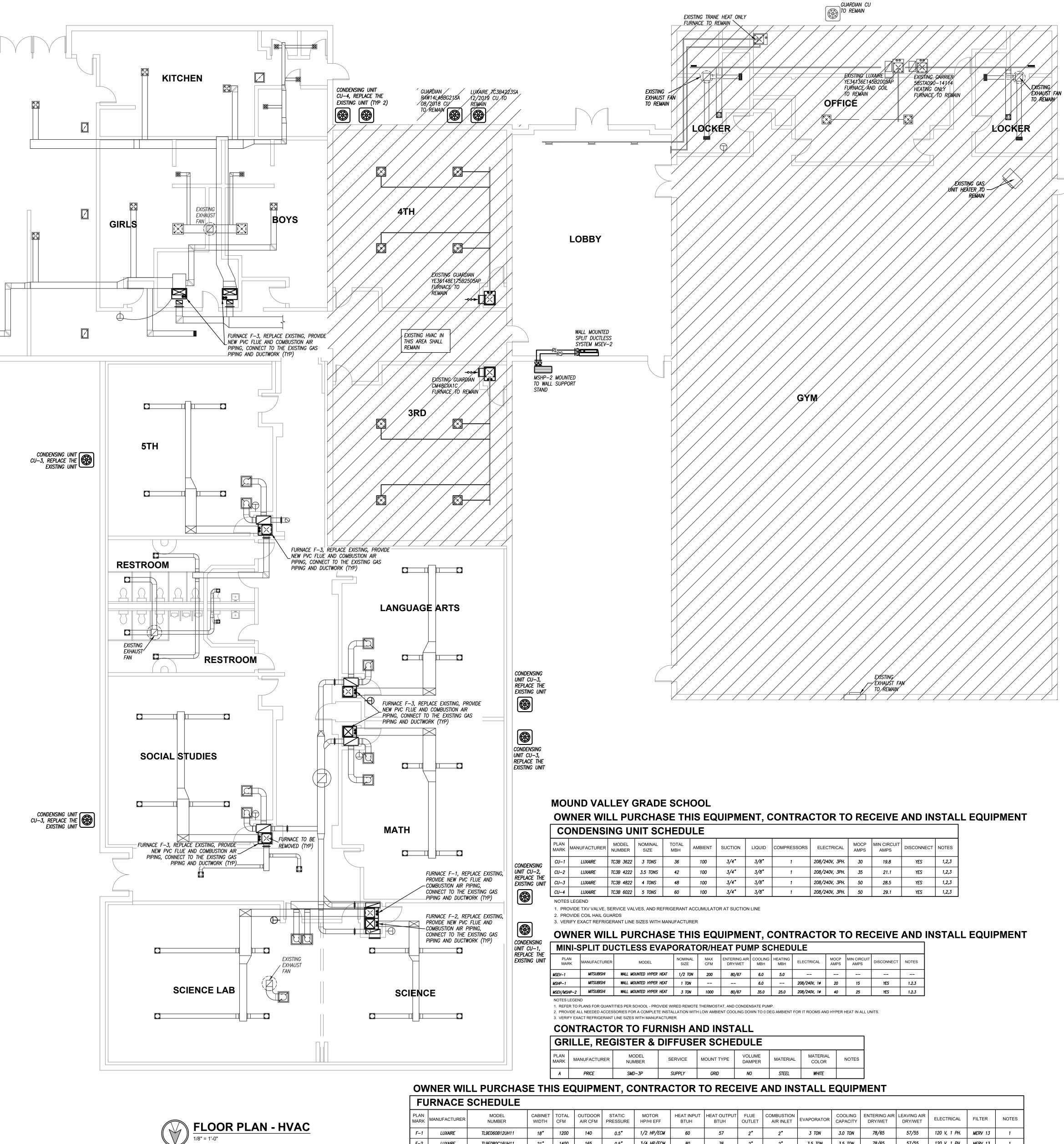




MOUND VALLEY GRADE SCHOOL







F-2 F-3 F-4

LUXAIRE TL9E100C20UH11 NOTES LEGEND 1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT

LUXAIRE

LUXAIRE

TL9E080C16UH11

TL9E080C16UH11

PLAN MARK	MANUFACTURER	MODEL NUMBER	NOMINAL SIZE	TOTAL MBH	AMBIENT	SUCTION	LIQUID	COMPRESSORS	ELECTRICAL	MOCP AMPS	MIN CIRCUIT AMPS	DISCONNECT	NOTES
CU-1	LUXAIRE	TC3B 3622	3 TONS	36	100	3/4"	3/8"	1	208/240V, 3PH.	30	19.8	YES	1,2,3
CU–2	LUXAIRE	TC3B 4222	3.5 TONS	42	100	3/4"	3/8"	1	208/240V, 3PH.	35	21.1	YES	1,2,3
CU–3	LUXAIRE	TC3B 4822	4 TONS	48	100	3/4"	3/8"	1	208/240V, 3PH.	50	28.5	YES	1,2,3
CU-4	LUXAIRE	TC3B 6022	5 TONS	60	100	3/4"	3/8"	1	208/240V, 3PH.	50	29.1	YES	1,2,3

PLAN MARK	MANUFACTURER	MODEL	NOMINAL SIZE	MAX CFM	ENTERING AIR DRY/WET	COOLING MBH	HEATING MBH	ELECTRICAL	MOCP AMPS	MIN CIRCUIT AMPS	DISCONNECT	NOTES
MSEV-1	MITSUBISHI	WALL MOUNTED HYPER HEAT	1/2 TON	200	80/67	6.0	5.0					
MSHP-1	MITSUBISHI	WALL MOUNTED HYPER HEAT	1 TON			6.0		208/240V, 1ø	20	15	YES	1.2.3
MSEV/MSHP-2	MITSUBISHI	WALL MOUNTED HYPER HEAT	3 TON	1000	80/67	35.0	25.0	208/240V, 1ø	40	25	YES	1.2.3
NOTES LEGEN	ND											

GR	ILLE, REC	GISTER &	DIFFUSE	ER SCHE	DULE			
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	MATERIAL COLOR	NOTES
A	PRICE	SMD-3P	SUPPLY	GRID	NO	STEEL	WHITE	

CAB WIE		TOTAL CFM	OUTDOOR AIR CFM	STATIC PRESSURE	MOTOR HP/HI EFF	HEAT INPUT BTUH	HEAT OUTPUT BTUH	FLUE OUTLET	COMBUSTION AIR INLET	EVAPORATOR	COOLING CAPACITY	ENTERING AIR DRY/WET	LEAVING AIR DRY/WET	ELECTRICAL	FILTER	NOTES
18	8"	1200	140	0.5"	1/2 HP/ECM	60	57	2"	2"	3 TON	3.0 TON	78/65	57/55	120 V, 1 PH.	MERV 13	1
2	21"	1400	165	0.5"	3/4 HP/ECM	80	76	2"	2"	3.5 TON	3.5 TON	78/65	57/55	120 V, 1 PH.	MERV 13	1
2	21"	1600	190	0.5"	3/4 HP/ECM	80	76	2"	2"	4 TON	4.0 TON	78/65	57/55	120 V, 1 PH.	MERV 13	1
2	21"	2000	240	0.5"	1 HP/ECM	100	95	2"	2"	5 TON	5.0 TON	78/65	57/55	120 V, 1 PH.	MERV 13	1

MOUND VALLEY GRADE SCHOOL



PEARSON KENT MCKINLEY RAAF ENGINEERS LL 2933 SW WOODSIDE DR., STE 104 TOPEKA, KS 66614 785.273.2447 WWW.PKMRENG.COM S 00 Т 0 SS Ο Ņ Т SШ 3 U 02 S ШН ADE KS KS ŭ ¶ GRAI NUT EY, F **JPG** E VAL VLLI ABE AC VALI 402 / ND V NOM N · OJ 0 0 S S D

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©	PEARSON KENT N	ICKINLEY RA	AF ENGINEERS, LLC
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	-		-
DATE:	2/2/22	PKMR PI	ROJECT: 22.175



MOUND VALLEY GRADE SCHOOL



PEARSON KENT MCKINLEY RAAF ENGINEERS LL 2933 SW WOODSIDE DR., STE 104 TOPEKA, KS 66614 785.273.2447 WWW.PKMRENG.COM S HOOL Ο Ο SS 354 I SШ C RAD Ň ADE ST KS LEY GRAI WALNUT /ALLEY, K LABETTE IVAC UPGF UND VALLÍ 402 W MOUND VA OND 506 H 0 Σ SD

