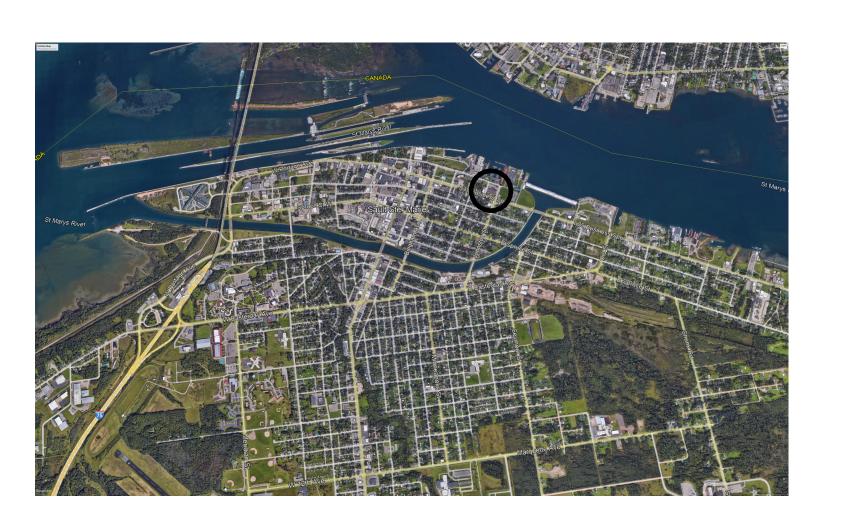
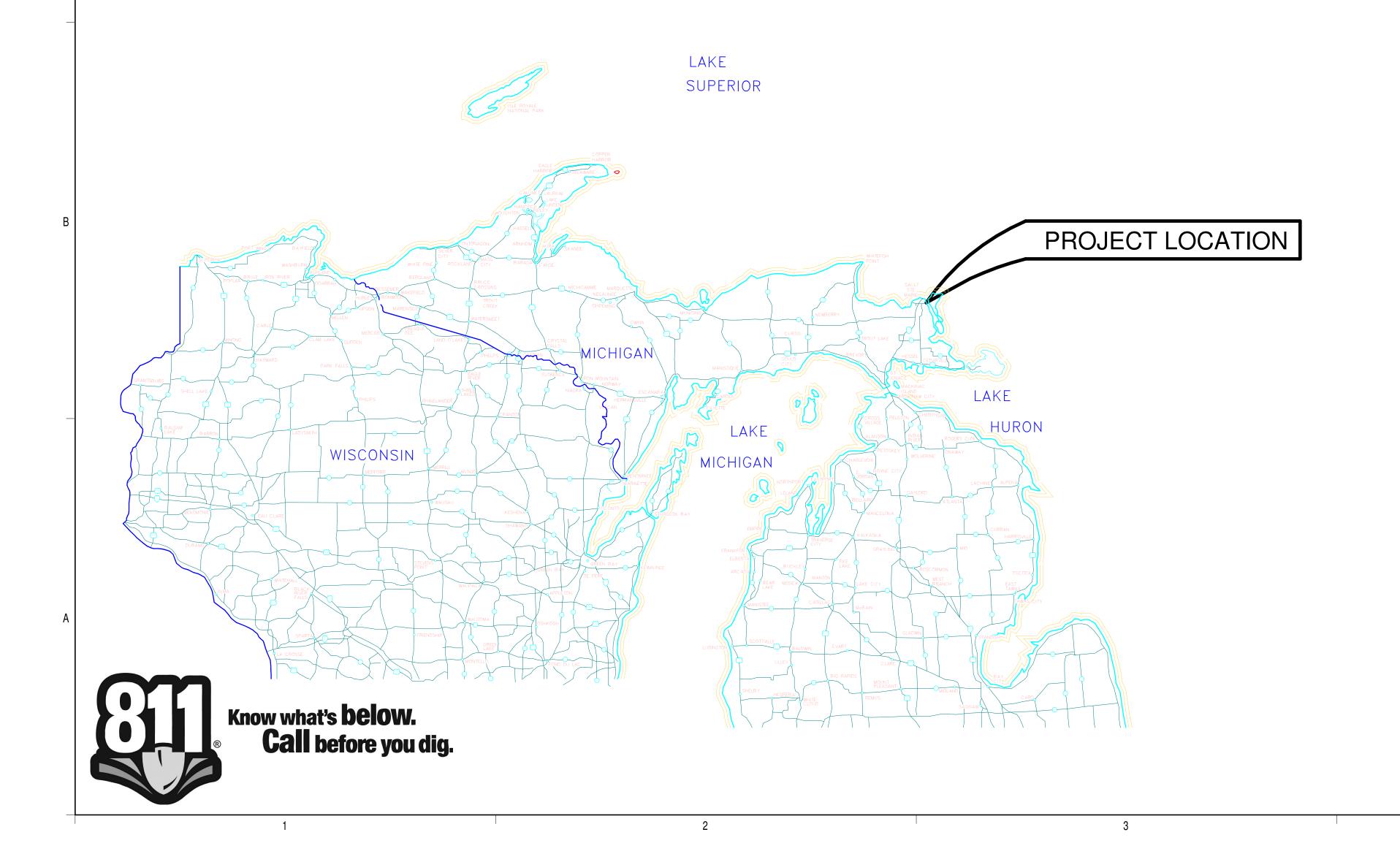
PULLAR BOILER REPLACEMENT

CITY OF SAULT STE. MARIE
435 E PORTAGE AVE.
SAULT STE. MARIE, MI 49783



PROJECT VICINITY MAP



U.P. ENGINEERS & ARCHITECTS, INC.

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ER KEPLACEMEN

CITY OF SAULT STE. M. 435 E PORTAGE AV

ISSUED FOR: DATE: 11/29/2023

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ABBREVIATIONS					SYMBOL LEGEND					NOTES	
10011			IANUTOR			SUPPLY AIR DIFFUSER	├	PIPE BREAK	DUCTWORK		MECHANICAL/PLUMBING AND FIRE PROTECTION GENERAL NOTES
ACCU AFF AHU AI	AIR COOLED CONDENSING UNIT ABOVE FINISHED FLOOR AIR HANDLING UNIT ANALOG INPUT	JAN JC JS	JANITOR JANITOR'S CLOSET JANITOR'S SINK			LINEAR DIFFUSER	} 	PIPE DOWN	24x14 SA	SUPPLY AIR DUCT - EXISTING	1. THESE DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NEVERY OFFSET, VALVE, FITTING, ETC. REQUIRED. CONTRACTOR IS RESPALL DUCTWORK AND PIPING AT NO ADDITIONAL COST.
AO APD AS	ANALOG OUTPUT AIR PRESSURE DROP AIR SEPERATOR	KW LAT LAV	KILOWATT LEAVING AIR TEMPERATURE LAVATORY			RETURN OR EXHAUST AIR GRILLE EXHAUST FAN - ROOF	Ş	PIPE UP CLEAN OUT GAS METER	24x14 SA }	SUPPLY AIR DUCT - DEMO	2. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS PERFORM ALL LABOR REQUIRED FOR INSTALLATIONS AS INDICATED THE SPECIFICATIONS AND AS REQUIRED BY LOCAL, STATE AND FEDERAL COIREASONABLY IMPLIED TO ACCOMPLISH COMPLETE MECHANICAL, PLUME
B BB BC BDD BFG	BOILER BASEBOARD BOOSTER COIL BACKDRAFT DAMPER BELOW FINISHED GRADE	LBS LHWR RETURN LHWS SUPPLY	POUNDS LOW TEMPERATURE HOT WATER LOW TEMPERATURE HOT WATER			FRESH AIR INTAKE HOOD - ROOF	 -	UNION	\$ 24x14 SA \$ 24x14 RA \$	SUPPLY AIR DUCT - NEW RETURN AIR DUCT - EXISTING	SYSTEMS. 3. ALL ELECTRICAL DISCONNECTS REQUIRED PER NEC CODE SHALI INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERW
BFP BHP BOD BOP	BACKFLOW PREVENTER BRAKE HORSE POWER BOTTOM OF DUCT BOTTOM OF PIPE	LIQ LV LP LWT	LIQUID (REFRIGERATION) LOUVER PROPANE GAS (LIQUID) LEAVING WATER TEMPERATURE			RELIEF AIR HOOD - ROOF	. 	HOSE BIBB ELECTRIC BELL	24x14 RA	RETURN AIR DUCT - DEMO	4. CONTRACTOR SHALL PROVIDE PRODUCTS AS SPECIFIED ON THE SPECIFICATIONS, HOWEVER, WHERE THE WORDS "EQUAL TO" ARE USED MAY BE SUBMITTED AS PROPOSED SUBSTITUTIONS, BUT REQUIRE APPRARCHITECT/ENGINEER.
BT BTU BTUH	BATH TUB BRITISH THERMAL UNITS BRITISH THERMAL UNITS PER HOUR	M MAU MAX MB	METER MAKE-UP AIR HANDLING UNIT MAXIMUM MOP BASIN		-	SUPPLY REGISTER RETURN OR EXHAUST REGISTER		SIAMESE CONNECTION BARE FIN TUBE ELEMENT	\$ 24x14 RA \$	RETURN AIR DUCT - NEW	5. DESIGN DRAWINGS SHOW GENERAL ARRANGEMENT AND EXTEN ARE DIAGRAMMATIC AND MAY NOT NECESSARILY BE DRAWN TO SCALE I AND LEGIBILITY. IT IS INTENDED THAT ALL ITEMS BE LOCATED SYMMETRI
C CA CB	CONVECTOR COMPRESSED AIR CATCH BASIN	MBH MBTUH MC MCA	BRITISH THERMAL UNITS (1000) BRITISH THERMAL UNITS (1000) MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPACITY			SQUARE TO ROUND TRANSITION	######################################	FIN TUBE ELEMENT WITH COVER	24x14 OA 24x14 OA	OUTSIDE AIR DUCT - EXISTING OUTSIDE AIR DUCT - DEMO	ELEMENTS WHERE FEASIBLE AND BE INSTALLED TO AVOID OBSTRUCTIO HEADROOM. CONTRACTOR SHALL REVIEW PLANS OF OTHER TRADES WI CONFLICTS AND INTERFERENCES. CONTRACTOR MUST MAKE USE OF AL INCLUDING DRAWINGS OF EQUIPMENT FURNISHED BY OTHERS. FAILURE
CC CCF CD CF CFH	COOLING COIL 100 CUBIC FEET CEILING DIFFUSER CUBIC FEET CUBIC FEET PER HOUR	MD MECH MIN MOCP	MOTORIZED DAMPER MECHANICAL MINIMUM MAXIMUM OVER CURRENT		<u> </u>	VOLUME CONTROL DAMPER FIRE / SMOKE DAMPER (RATING DETERMINED BY WALL TYPE)	[] 	EXTERNALLY INSULATED DUCTWORK INTERNALLY LINED DUCTWORK	24x14 OA	OUTSIDE AIR DUCT - NEW	SPACES OR CHECK DIMENSIONS IN QUESTION SHALL NOT WARRANT CO 6. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLINAND SPECIFICATIONS CONFLICT EACH OTHER, IT IS THE CONTRACTORS
CFM CFP CH CI	CUBIC FEET PER MINUTE CLEAN OUT FERRULE AND PLUG CHILLER CAST IRON	N2O NC	ON NITROUS OXIDE NORMALLY CLOSED NOT INCLUDED OR NOT IN CONTI	DACT	M S	MOTORIZED DAMPER DUCT SMOKE DETECTOR	<u> </u>		24x14 EA 24x14 EA	EXHAUST AIR DUCT - EXISTING EXHAUST AIR DUCT - DEMO	CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO BIDDING. FA SHALL NOT RESULT IN ADDITIONAL COST AND THE MORE STRINGENT SH BASIS FOR BIDDING.
CHWR CHWS CO CO	CHILLED WATER RETURN CHILLED WATER SUPPLY CLEAN OUT CARBON MONOXIDE	NIT NO	NITROGEN NORMALLY OPEN	HACT	• <u>•</u>	THERMOSTAT - 60" A.F.F.			24x14 EA	EXHAUST AIR DUCT - NEW	7. PLANS AND SPECIFICATIONS ARE INTENDED TO CONFORM TO GO STANDARDS. IF NON-CONFORMITIES ARE DISCOVERED WHILE BIDDING, OF IMPLIED, BRING THE SAME TO THE ATTENTION OF THE ARCHITECT/ENGIN WRITING PRIOR TO SUBMITTING BID OR PROCEEDING WITH WORK. NON-COMPLIANCE WORK INSTALLED AND CORRECTIONS REQUIRED WITHOUT
COND CO2 CT CU CU FT	CONDENSATE CARBON DIOXIDE COOLING TOWER CONDENSING UNIT CUBIC FOOT	OA OAI OC OD ODP	OUTDOOR AIR OUTDOOR AIR INTAKE ON CENTER OVERFLOW DRAIN OPEN DRIP PROOF		⊕	HUMIDISTAT - 60" A.F.F. AIR FLOW	PLUMBING PIPING		MECHANICAL PIPING		RESPONSE OF SAME BY THE ENGINEER WILL BE THE CONTRACTORS FIN 8. MOTORS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AS EQUIPMENT FURNISHED BY THE MECHANICAL CONTRACTOR. MOTORS T
CUH CW CWR CWS	COBIC FOOT CABINET UNIT HEATER COLD WATER CONDENSER WATER RETURN CONDENSER WATER SUPPLY	OXY P	OXYGENPUMP			SUPPLY AIR DUCT UP SUPPLY AIR DUCT DOWN	CW	DOMESTIC COLD WATER - EXISTING DOMESTIC COLD WATER - DEMO		HYDRONIC HOT WATER SUPPLY - EXISTING HYDRONIC HOT WATER SUPPLY - DEMO	DUTY, VOLTAGE, FREQUENCY, HAZARD, SERVICE AND LOCATION INTEND MUST HAVE INTEGRAL THERMAL OVERLOAD PROTECTION IN ADDITION T CONTROLLERS. MOTORS TO CONFORM IN DESIGN AND PERFORMANCE OF NEMA. MOTORS RATED FOR CONTINUOUS DUTY UNDER FULL LOAD V
D DB	DIFFUSER DRY BULB	PC PD PIV PRV PT	PLUMBING CONTRACTOR PNEUMATIC OPERATED DAMPER POST INDICATING VALVE PRESSURE REDUCING VALVE PRESSURE TEMPERATURE PLUG		× ×	RETURN AIR DUCT UP	CW	DOMESTIC COLD WATER - NEW	——HWS——	HYDRONIC HOT WATER SUPPLY - NEW	TEMPERATURE RISE OF 105 DEG F FOR OPEN, 125 DEG F FOR DRIP PROCE EXPLOSION PROOF AND TOTALLY ENCLOSED TYPES. SUPPLY MOTORS VERNEL BASES, REMOVABLE BELT GUARDS AND VARIABLE PITCH DETAILS MIDPOINT OF VARIABLE RANGE OF PULLEY WILL DRIVE EQUIPMENTS OF THE AND LARGER SHALL BE THREE PHASE (UNLESS OTHERWISE LISTED
DEG F DF DI DIA	DEGREE FAHRENHEIT DRINKING FOUNTAIN DIGITAL INPUT DIAMETER	PTAC PVAC	PACKAGED TERMINAL AIR COND PROCESS VACUUM			RETURN AIR DUCT DOWN EXHAUST AIR DUCT UP	——————————————————————————————————————	DOMESTIC HOT WATER - EXISTING	HWR	HYDRONIC HOT WATER RETURN - EXISTING	`
DN DO DWV	DOWN DIGITAL OUTPUT DRAIN, WASTE AND VENT	R RA RD RET	REGISTER RETURN AIR ROOF DRAIN RETURN RETURN FAN			EXHAUST AIR DUCT DOWN	———HW———	DOMESTIC HOT WATER - NEW	HWR	HYDRONIC HOT WATER RETURN - DEMO	OF OPERATION. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL T DISCONNECT AND CONNECTION TO MOTOR TERMINALS. MECHANICAL COMPONENTS AND WIRE AND MATCONNECTIONS BETWEEN DEVICES.
EA EAT EC EF	EACH ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR EXHAUST FAN	RG RPZ RR RTU	RETURN AIR GRILLE REDUCED PRESSURE ZONE BAC RETURN REGISTER ROOF TOP UNIT	KFLOW PREVENTER			HWC	DOMESTIC HOT WATER RECIRC - EXIST	ING	FIRE PROTECTION - EXISTING FIRE PROTECTION - DEMO	10. THE DRAWINGS INDICATE KNOWN UTILITY AND DRAINAGE LINES INFORMATION FURNISHED TO THE ENGINEER. RESPONSIBILITY FOR LOC DISPOSING OR MAINTAINING ALL EXISTING UTILITY LINES TO REST SOLEI VERIFY LOCATIONS AND DEPTHS OF SERVICE CONNECTION POINTS BEF
EG ELEV ER EUH	EXHAUST AIR GRILLE ELEVATION EXHAUST AIR REGISTER ELECTRIC UNIT HEATER	S SA SAD	SINK SUPPLY AIR SUPPLY AIR DIFFUSER		— <u>—</u> ——————————————————————————————————	CIRCUIT SETTER CHECK VALVE	HWC	DOMESTIC HOT WATER RECIRC - NEW		FIRE PROTECTION - NEW	CONSTRUCTION. 11. CONTRACTOR SHALL CHECK EXISTING PREMISES BEFORE SUBMALL CONDITIONS WHICH MAY EFFECT THE PERFORMANCE OF THE WORK
EWC EWH EWT EX FXH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER ENTERING WATER TEMPERATURE EXISTING EXHAUST	SAF SAN SD SG	SUPPLY AIR FAN SANITARY SEWER SMOKE DETECTOR SUPPLY AIR GRILLE			GATE VALVE	-	SANITARY - EXISTING	CDS	CONDENSOR WATER SUPPLY CONDENSOR WATER SUPPLY - DEMO	ALLOWANCES OR EXTRA PAYMENT WILL BE MADE DUE TO CONTRACTOR AND FULLY DISCERN WORKING CONDITIONS. 12. MECHANICAL CONTRACTOR SHALL RECEIVE, PROPERLY HOUSE,
F FAI	FURNACE FRESH AIR INTAKE	SH SHC SR SS	SHOWER HEAD STEAM HEATING COIL SUPPLY REGISTER STAINLESS STEEL		•	2-WAY CONTROL VALVE 3-WAY CONTROL VALVE	SAN	SANITARY - DEMO SANITARY - NEW	CDS	CONDENSOR WATER SUPPLY - EXIST CONDENSOR WATER RETURN	DELIVER TO PROPER LOCATION EQUIPMENT AND OTHER MATERIALS RE- 13. THE CONTRACTOR SHALL OBTAIN PERMITS, ARRANGE FOR INSPI EXPENSES IN CONNECTION THEREWITH, AS A PART OF THE WORK REQUESTION IN CONFORM
FBO FC FD FD	FURNISHED BY OTHERS FAN COIL FLOOR DRAIN FIRE DAMPER	ST STM SUCT	STORM STEAM SUCTION (REFRIGERATION)		中安	PRESSURE RELIEF VALVE	V	VENT - EXISTING	32	CONDENSOR WATER RETURN - DEMO	CODES. 14. THE CONTRACTOR SHALL REVIEW ANY ALTERNATES OF OTHER TO ACCOUNT FOR ITEMS AFFECTING HIS WORK.
FIN FLG FP FPM FT	FIN TUBE RADIATION FLANGE FIRE PROTECTION FEET PER MINUTE FOOT OR FEET	TCC TCD TCP TD	TEMPERATURE CONTROL CONTROL TEMPERATURE CONTROL DAMPE TEMPERATURE CONTROL PANEL TRANSFER DUCT	ER		BALANCE VALVE INLINE PUMP STRAINER	v	VENT - DEMO	——————————————————————————————————————	CONDENSOR WATER RETURN - EXIST CHILLED WATER SUPPLY	15. PIPING PASSING THROUGH CORRIDORS, TUNNELS, CHASES, ETC PROPER DRAINAGE. CONSULT WITH THE OTHER CONTRACTORS AND AV LOCATION OF PIPING. ORDER OF PRIORITY FOR ALL PIPING AND CONDUI BE AS FOLLOWS WITH THE HIGHEST PRIORITY LISTED FIRST.
F&T ———— G GAL	FLOAT AND THERMOSTATIC TRAP GAS (NATURAL) GALLON	TG TT TYP	TRANSFER AIR GRILLE THERMOSTATIC TRAP TYPICAL UNDERGROUND		› ├─³ ├─ ॑	CAP PIPING 90	ST	STORM - EXISTING STORM - DEMO	CHWS	CHILLED WATER SUPPLY - DEMO	A. PLUMBING DRAIN LINES B. CONDENSATE LINES C. DUCTWORK D. FIRE PROTECTION
GC GPH GPM GT	GENERAL CONTRACTOR GALLONS PER HOUR GALLONS PER MINUTE GREASE TRAP	UG UH UV	UNIT HEATER UNIT VENTILATOR		—‡ -(M)—	PIPING "T" METER	ST	STORM - NEW		CHILLED WATER SUPPLY - EXIST CHILLED WATER RETURN	E. HOT AND COLD WATER PIPING F. ELECTRICAL CONDUIT 16. WORK ASSIGNMENTS INFERRED BY THE DRAWINGS AND NOTES
H HB HC	HYDROGEN HOSE BIBB HEATING COIL HORIZONTAL CLEANOUT	V VAC VAV VD VFD	VENT VACUUM VARIABLE AIR VOLUME BOX VOLUME DAMPER VARIABLE FREQUENCY DRIVE		⊗	CONNECTION TO EXISTING	OD	OVERFLOW STORM - EXISTING OVERFLOW STORM - DEMO	CHWR	CHILLED WATER RETURN - DEMO	DOCUMENTS ARE INFORMATIONAL ONLY AND ARE NOT INTENDED TO RE CONTRACTOR OF HIS OBLIGATION TO THE OWNER TO PROVIDE A COMPIPROJECT. COMPREHENSIVE SUBCONTRACTOR COORDINATION AND FIN SUBCONTRACTORS ARE THE SOLE RESPONSIBILITY OF THE BIDDING CO
HCO HP HTR HVAC HW	HORSE POWER HEATER HEATING, VENTILATING & AIR COND HOT WATER	VS VTR VUV	VENT STACK (SANITARY) VENT THRU ROOF (SANITARY) VERTICAL UNIT VENTILATOR				——————————————————————————————————————	OVERFLOW STORM - NEW		COMPRESSED AIR - EXISTING	17. ALL DUCTS SERVING SUPPLY, RETURN AND EXHAUST TERMINALS BALANCE DAMPERS. FOR CLARITY, ALL DAMPERS MAY NOT BE SHOWN COMPACTIONS AT ALL JUNCTIONS
HWC HWR HWS HX	HOT WATER RECIRCULATING HOT WATER RETURN HOT WATER SUPPLY HEAT EXCHANGER	W WB WC W/O	WASTE WET BULB WATER CLOSET WITHOUT				G			COMPRESSED AIR - DEMO COMPRESSED AIR - NEW	
IE IF IN	INVERT ELEVATION INLINE FAN INCH OR INCHES	WH WSHP NOTE:	WATER HEATER WATER SOURCE HEAT PUMP				————G———	GAS - NEW	STM		
IP INV IWH	IRON PIPE INVERT INSTANTANEOUS WATER HEATER		BBREVIATIONS AND/OR SYMBOLS ARE HIS SET OF DOCUMENTS.	E					STM	STEAM - NEW	
										CONDENSATE - EXISTING CONDENSATE - DEMO	
										CONDENSATE - NEW	

DO NOT NECESSARILY INDICATE RESPONSIBLE FOR FIELD ROUTING

RIALS AND OPERATIONS AND D THE DRAWINGS, IN THE L CODES, AND AS MAY BE LUMBING AND FIRE PROTECTION

SHALL BE FURNISHED AND IERWISE.

N THE DRAWINGS AND USED, ADDITIONAL PRODUCTS APPROVAL FROM

XTENT OF WORK. THE DRAWINGS CALE FOR PURPOSE OF CLARITY METRICALLY WITH ARCHITECTURAL JCTIONS AND PRESERVE ES WITH HIS OWN WORK TO AVOID OF ALL SOURCES OF INFORMATION LURE TO REVIEW WORKING T CONFLICTS.

MPLIMENTARY. WHERE DRAWINGS ORS RESPONSIBILITY TO GET G. FAILURE TO GET CLARIFICATION IT SHALL BE USED AS INTENDED

TO GOVERNING CODES AND ING, OR PERFORMING THE WORK ENGINEER FOR CLARIFICATION IN NON-CONFORMITIES OF CODE FHOUT CONSULTION AND WRITTEN RS FINANCIAL RESPONSIBILITY.

OR AS REQUIRED BY THE ORS TO BE SUITABLE FOR LOAD, TENDED. SINGLE PHASE MOTORS ION TO THAT PROVIDED IN MOTOR NCE TO THE MOTOR STANDARDS DAD WITH A MAXIMUM PROOF AND 130 DEG F FOR ORS WITH BELT DRIVES WITH CH DRIVE PULLEY SELECTED SO MENT AT RATED SPEED. MOTORS

NICAL CONTRACTOR FOR CONTROLLERS SHALL BE OF SIZES S REQUIRED BY THE SEQUENCE ALL THE POWER CIRCUIT, LOCAL CONTRACTOR TO MOUNT ID MAKE ALL FINAL CONTROL

INES IN ACCORDANCE WITH THE R LOCATING, UNCOVERING, SOLELY WITH THE CONTRACTOR. BEFORE PROCEEDING WITH

SUBMISSION OF BIDS TO CHECK WORK INVOLVED. NO CTOR'S FAILURE TO EXAMINE SITE

DUSE, HANDLE, HOIST, AND LS REQUIRED FOR THIS CONTRACT.

R INSPECTIONS, AND PAY FEES AND C REQUIRING SUCH PERMITS. EVERY NFORMITY WITH APPLICABLE

HER TRADES, AND PRICE THEIR BID

S, ETC. SHALL BE CONSIDERED FOR ND AVOID CONFLICT WITH NDUITS TO BE INSTALLED SHALL

OTES INCLUDED IN THESE PROJECT TO RELIEVE THE BIDDING OMPLETE AND COORDINATED D FINAL WORK ASSIGNMENTS TO G CONTRACTOR.

MINALS SHALL BE PROVIDED WITH DWN ON PLANS.

IONS OF DISSIMILAR METALS.

CONDENSATE - NEW

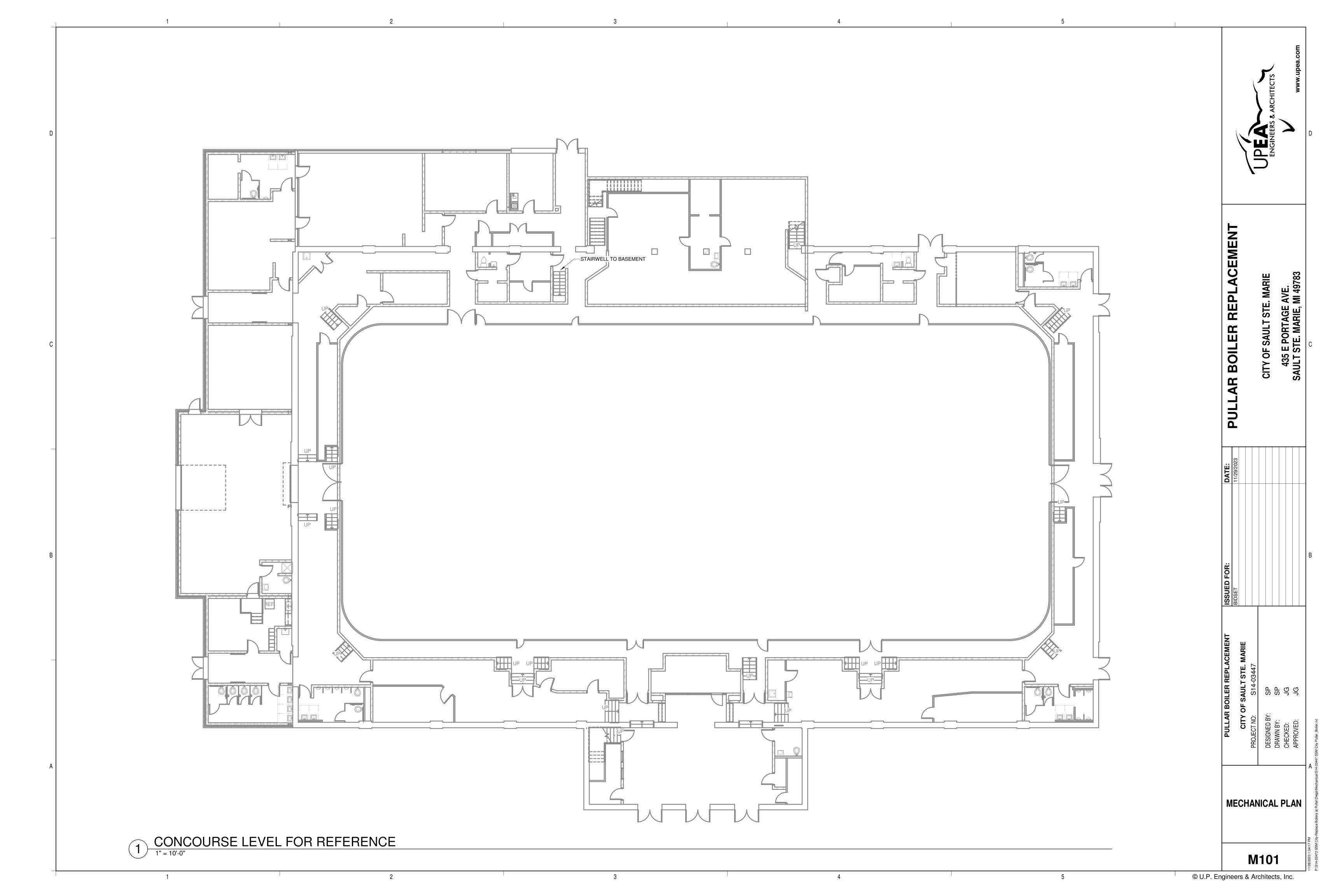
MARIE OF SAULT STE.

REPLACEMENT

BOILER PUL

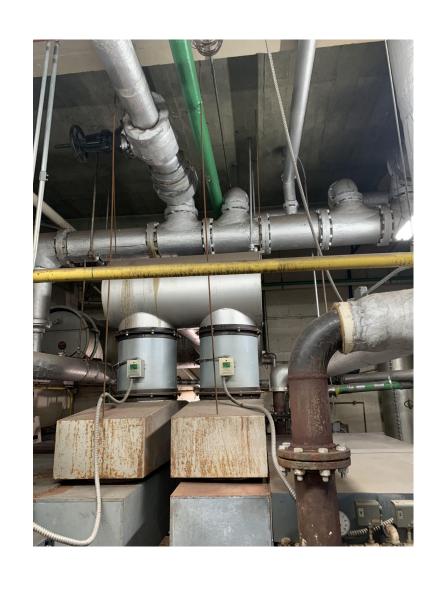
MECHANICAL AND PLUMBING ABBREVIATIONS AND SYMBOLS

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EXISTING BREECHING



EXISTING BOILER B-1



EXISTING BOILER B-2

BOILER SCHEDULE:

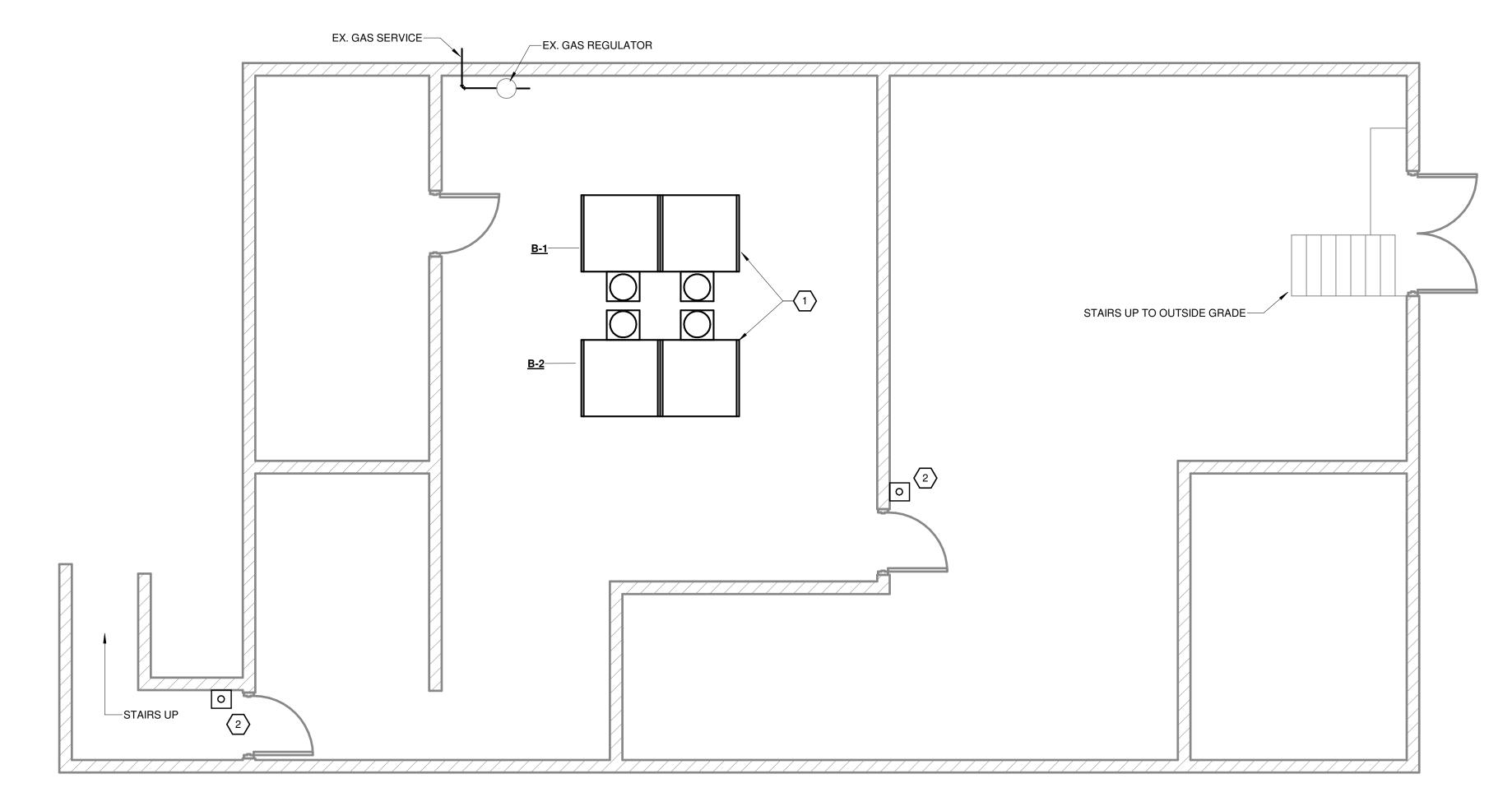
B-1 & B-2: WEIL MCLAIN LGB-19-S. NATURAL GAS FIRED. STEAM. 2340 MBH INPUT. 1867 MBH OUTPUT. CSD-1 CONTROLS.

GENERAL NOTES:

THE INTENT OF THE PROJECT IS TO "REPLACE IN KIND" (2) EXISTING STEAM BOILERS. CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPING, VALVES, ELECTRICAL, CONTROLS, ETC. REQUIRED TO REMOVE AND REPLACE THE EXISTING BOILERS. PROVIDE NEW PRIMARY AND BACK-UP WATER LEVEL CONTROL. PROVIDE NEW WFFP CONTROL PANEL AND ASSOCIATED GAS TRAIN FOR CSD-1 SYSTEMS. PROVIDE NEW CONTROL WIRING AS REQUIRED FOR NEW CONTROL PANEL AND CSD-1 SYSTEM. EXISTING BREECHING MAY BE RE-USED WITH CONNECTION OF NEW BOILERS TO EXISTING. CONTRACTOR SHALL REPLACE ANY PIPING NECESSARY FOR REMOVAL AND INSTALLATION OF BOILERS. EXISTING ELECTRICAL MAY BE RE-USED WITH CONNECTION OF NEW BOILERS TO EXISTING. EXISTING GAS PIPING MAY BE RE-USED WITH CONNECTION OF NEW BOILERS TO EXISTING.

KEYNOTES

- 1 REMOVE AND REPLACE (2) EXISTING STEAM BOILERS.
- 2 PROVIDE E-STOP AND WIRING PER CSD-1 REQUIREMENTS EQUAL TO "ETTER" MODEL CSD-014. PROVIDE ENGRAVED PLAQUE ABOVE PUSH BUTTON LABELED "BOILER E-STOP".



A1 BASEMENT MECHANICAL PLAN

1/4" = 1'-0"

UPEA ENGINEERS & ARCHITECTS www.upea.con

R BOILER REPLACEMENT

CITY OF SAULT STE

NT ISSUED FOR: 11/29/2023
BIDSET 11/29/2023

CITY OF SAULT STE. MARIE
PROJECT NO: S14-03447

DESIGNED BY: SP
DRAWN BY: SP
CHECKED: JG
APPROVED: JG

ENLARGED MECHANICAL PLANS

M401

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