

**HVAC GENERAL NOTES**

1. WORK INCLUDED:
  - A. PROVIDE ALL EQUIPMENT, MATERIAL AND LABOR TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS.
  - B. OBTAIN AND PAY FOR ALL PERMITS, LICENSES, FEES AND TAXES APPLICABLE TO THIS PROJECT AS REQUIRED BY LAW AND GOVERNING AUTHORITIES.
2. QUALITY ASSURANCE:
  - A. REGULATORY REQUIREMENTS: ALL WORK, INSTALLATIONS, MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE PROVISION OF THE FOLLOWING CODES, STANDARDS AND REGULATIONS, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN OR SPECIFIED:
    - a. CURRENT EDITION OF STATE OF WASHINGTON PLUMBING SPECIALTY CODE (WPSC).
    - b. CURRENT EDITION OF STATE OF WASHINGTON INTERNATIONAL MECHANICAL CODE (IMC).
    - c. CURRENT EDITION OF STATE OF WASHINGTON STRUCTURAL SPECIALTY CODE (IBC).
    - d. NATIONAL ELECTRICAL CODE (NEC).
    - e. NATIONAL FIRE PROTECTION AGENCY (NFPA).
    - f. ALL CITY, COUNTY, STATE AND FEDERAL APPLICABLE LAWS AND REGULATIONS.
    - g. REGULATIONS AND STANDARDS SET FORTH BY ASME, ASHRAE, SMACNA, AGA AND ARI.
    - h. CURRENT EDITION OF STATE OF WASHINGTON ENERGY CODE. - CURRENT EDITION.
  - B. WHERE TWO OR MORE CODES OR REGULATIONS APPLY, THE MORE STRINGENT OF THE TWO SHALL BE EXERCISED.
  - C. ELECTRICAL PRODUCTS SHALL BEAR THE U.L. LABEL.
  - D. WORK SHALL BE OF GOOD QUALITY, FREE OF FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
  - E. WORKMANSHIP: ALL MATERIALS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
3. OPERATING AND MAINTENANCE MANUAL AND PARTS LISTS:
  - A. SUBMIT THREE BOUND COPIES OF MANUFACTURER'S OPERATION AND MAINTENANCE INSTRUCTION MANUALS AND PARTS LISTS FOR EACH PIECE OF EQUIPMENT OR ITEM REQUIRING SERVICING. INCLUDE IN THE MANUAL MANUFACTURER'S SERVICE DATA, WIRING DIAGRAMS AND PARTS LISTS FOR ALL MAJOR ITEMS OF EQUIPMENT, VALVE CHARTS, BALANCING DATA, FINAL CONTROL DIAGRAMS SHOWING FINAL SET POINTS AND ANY ADDITIONAL EQUIPMENT ADDED BY CONTRACT MODIFICATION.
4. PROJECT RECORD (AS-INSTALLED) DRAWINGS:
  - A. KEEP DRAWINGS CLEAN, UNDAMAGED AND UP TO DATE.
  - B. MAKE DRAWINGS AVAILABLE WHEN REQUESTED FOR REVIEW.
5. WARRANTY:
  - A. PROVIDE A WRITTEN GUARANTEE COVERING THE WORK OF THIS DIVISION FOR A PERIOD OF ONE CALENDAR YEAR FROM THE DATE OF ACCEPTANCE OF THE ENTIRE PROJECT AS REQUIRED BY THE GENERAL PROVISIONS.
6. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
7. MAINTAIN ALL MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS.
8. THIS DRAWING IS NOT FOR PERMIT OR CONSTRUCTION. THIS DRAWING PROVIDES THE GENERAL DESIGN INTENT FOR THE SYSTEMS, EQUIPMENT, COMPONENTS, ETC. SHOWN. THE FINAL DESIGN CALCULATIONS, SIZES, CAPACITIES, EQUIPMENT SELECTIONS, ETC. ARE THE SOLE RESPONSIBILITY OF THE BIDDER DESIGN CONTRACTOR. ALL DESIGN AND OTHER WORK SHALL BE IN COMPLIANCE WITH THE SPECIFICATION, CODES, AND STANDARD OF CARE.

PIPING & PIPE FITTINGS		ABBREVIATIONS	
	RD	REFERIGERANT DISCHARGE	AFF ABOVE FINISHED FLOOR
	RS	REFERIGERANT SUCTION	BTU BRITISH THERMAL UNIT
	HWS	HEATING WATER SUPPLY	COND CONDENSATE
	HWR	HEATING WATER RETURN	(E) EXISTING
	CHWS	CHILLED WATER SUPPLY	EWT ENTERING WATER TEMPERATURE
	CHWR	CHILLED WATER RETURN	GPM GALLONS PER MINUTE
	S	STEAM	HP HORSEPOWER
	CR	CONDENSATE RETURN	LWT LEAVING WATER TEMPERATURE
	CWS	CONDENSER WATER SUPPLY	MFR MANUFACTURER
	CWR	CONDENSER WATER RETURN	(N) NEW
	X	EXISTING PIPING	PSI POUNDS PER SQUARE INCH
		DEMO PIPING	WG WATER GAGE
	BLV	BALL VALVE	WPD WATER PRESSURE DROP
	BFV	BUTTERFLY VALVE	
	BV	BALANCING VALVE	
	CAP	CAP	
	GV	GATE VALVE	
	CKV	CHECK VALVE	
	PRV	PRESSURE REDUCING VALVE	
	RV	RELIEF VALVE	
	FC	PIPE FLEX CONNECTOR	
	PG	PRESSURE GAUGE	
	TH	THERMOMETER	
	ST	STEAM TRAP	
	U	UNION	
	3DV	TRIPLE DUTY VALVE	
	PT	PRESSURE/TEMPERATURE PLUG	

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS CONTAINED IN THIS LEGEND WILL APPEAR ON DRAWINGS.



**SITE PLAN**  
NOT TO SCALE



**PROJECT DESCRIPTION**

- A. THIS PROJECT CONSISTS OF THE REPLACEMENT OF 2 EXISTING BOILER'S BURNERS.

**DRAWING LIST**

- M1 - COVER SHEET - HVAC
- M2 - LEVEL 1 FLOOR PLAN - HVAC

FOR DESIGN INTENT ONLY



LONGVIEW, WA  
NEWBERG, OR  
WWW.BRITTELLARCH.COM

Cascade Middle School Boiler

2821 Parkview Dr., Longview, WA 98632  
Contact:



2026.04.24 14:44:33-0700

MRK	DATE	DESCRIPTION
0	04/27/26	ISSUE FOR BID

JOB NUMBER:  
**#2602.8**

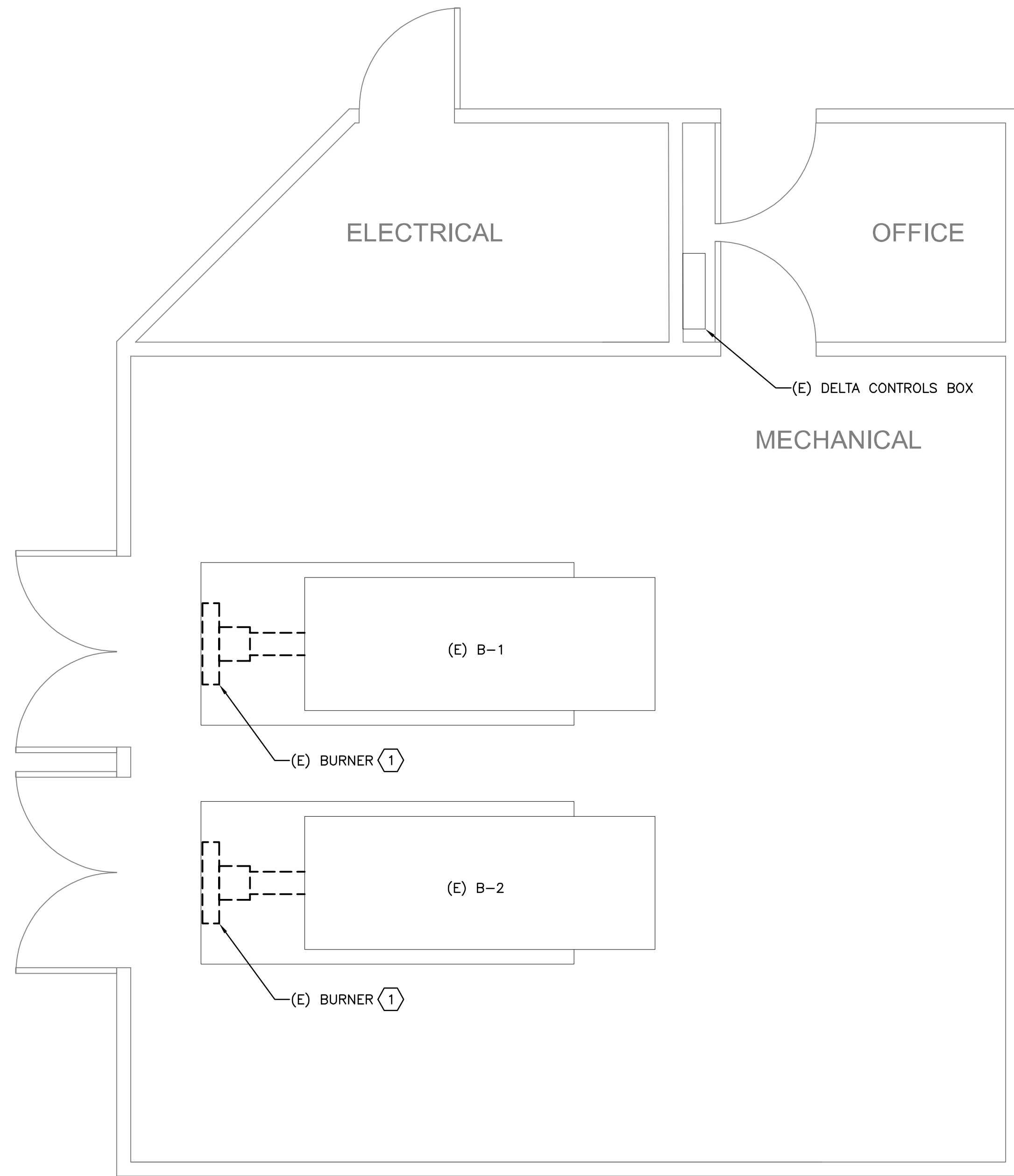
SHEET:  
**M1**  
HVAC  
COVER SHEET

**GENERAL NOTES**

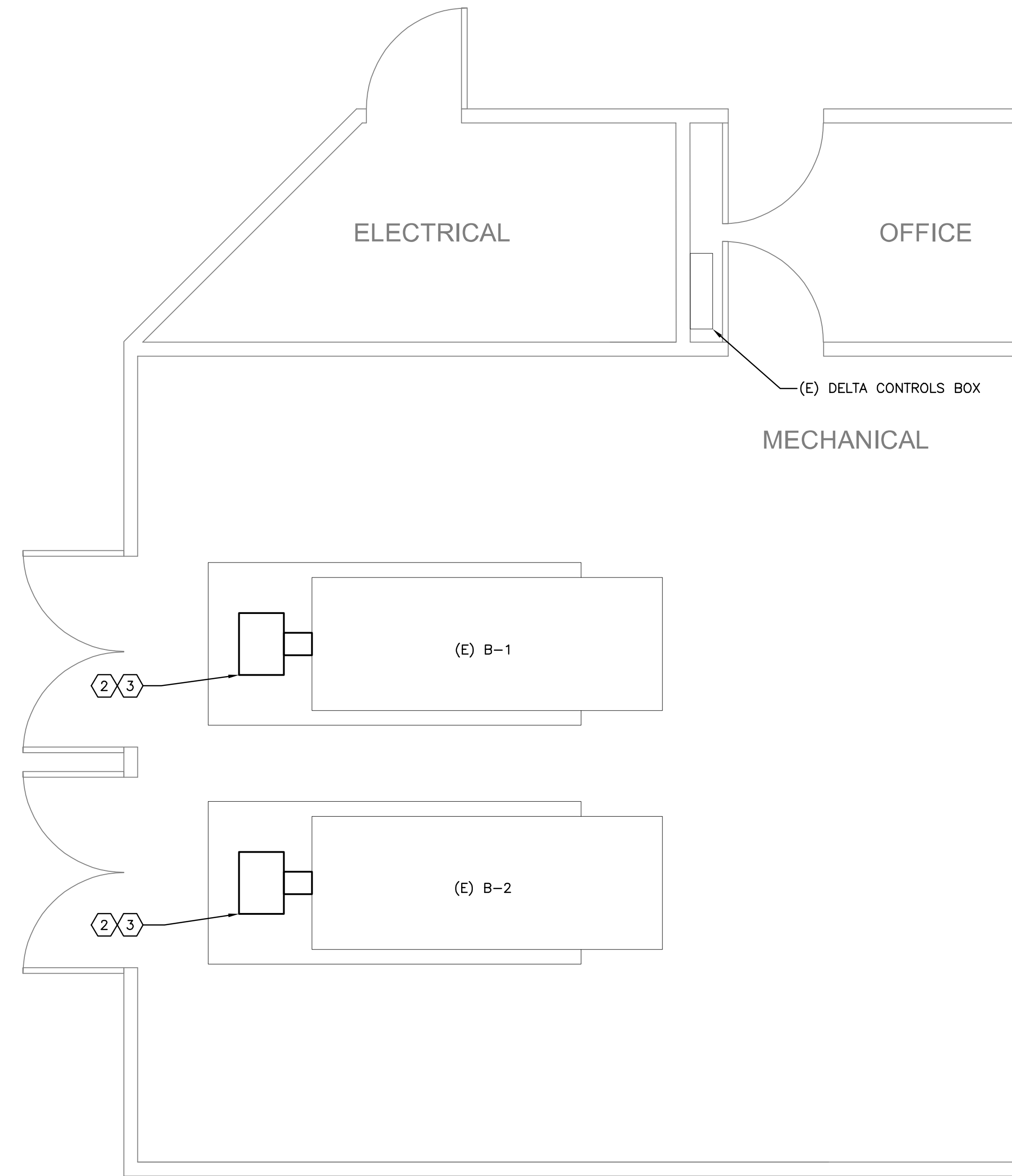
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**KEYED NOTES**

- ① ITEM TO BE DEMOLISHED.
- ② BASIS OF DESIGN TO BE: RIELLO RX400, NATURAL GAS BURNER, FIRING RATE 300-1700 MBH, MAIFOLD PRESSURE -10.8 "WC.
- ③ CONNECT NEW BURNER CONTROLS TO EXISTING DELTA CONTROLS BOX TO INTERFACE WITH AUTOMATION SYSTEM.



① LEVEL 1 FLOOR PLAN - HVAC - DEMO  
 M2 SCALE: 3/8" = 1'-0"  
 SCALE IN FEET  
 3/8" = 1'-0"



② LEVEL 1 FLOOR PLAN - HVAC - NEW  
 M2 SCALE: 3/8" = 1'-0"  
 SCALE IN FEET  
 3/8" = 1'-0"

FOR DESIGN INTENT ONLY



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 NEWBERG, OR  
 WWW.BRITTELLARCH.COM

Cascade Middle School Boiler  
 2821 Parkview Dr., Longview, WA 98632  
 Contact:



2026.04.24 14:44:56-0700

MRK	DATE	DESCRIPTION
0	04/27/26	ISSUE FOR BID

JOB NUMBER:  
**#2602.8**

SHEET:  
**M2**  
 HVAC  
 FIRST FLOOR PLAN