

2 M101 1/4" = 1'-0" MECHANICAL ROOM - OVERHEAD PIPING DEMOLITION PLAN - MECHANICAL

**GENERAL RENOVATION NOTES**

THESE DRAWINGS ARE SCHEMATIC IN NATURE AND NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE DISCIPLINES TO VERIFY ALL DIMENSIONS AND METHODS OF CONSTRUCTION.

THE CONTRACTOR SHALL COORDINATE ALL FLOOR AND SLAB PENETRATIONS WITH THE ARCHITECT. TRANSITION ALL DUCTWORK ON THE BOTTOM AND SIDES UNLESS OTHERWISE INDICATED. MAINTAIN DUCTWORK HIGH AS POSSIBLE.

COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF MECHANICAL EQUIPMENT WITH DIVISION 28 CONTRACTOR PRIOR TO SUBMITTING AND/OR PURCHASING THE EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR EQUIPMENT DELIVERED TO THE JOB SITE WITH THE WRONG ELECTRICAL CHARACTERISTICS. EXISTING VALVES ASSOCIATED WITH PUMPS, BOILER, AND COOLING TOWERS SHALL BE REPLACED WITH NEW. THIS INCLUDES TRIPLE DUTY VALVES, ISOLATION VALVES, BALANCING VALVES, AND CHECK VALVES. MANUAL OR AUTOMATIC AIR VENTS SHALL BE REPLACED WITH NEW.

REMOVE EXISTING PIPE SUPPORT STANDS AND INSTALL NEW PIPE SUPPORTS AS REQUIRED. EXISTING CONTROLS BY JOHNSON CONTROLS (JCI). CONTRACTOR SHALL COORDINATE SCOPE OF WORK, PRICING AND WORK WITH JCI. CONTACT PERSON: SHILPA R BUITA, EMAIL: SHILPA.R.BUITA@JCI.COM.

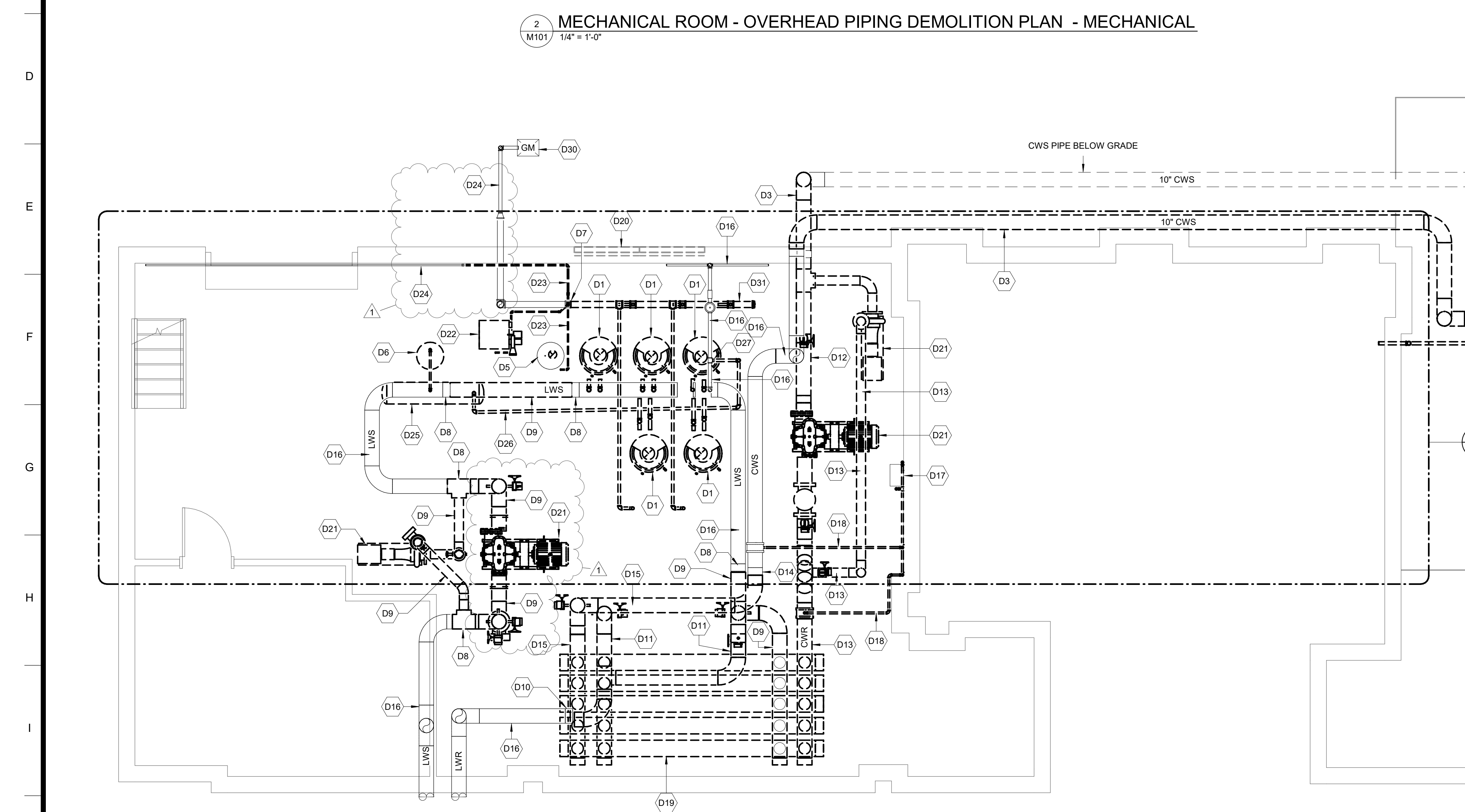
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WHERE PIPES, CONTROL DEVICES AND WIRING ARE DISCONNECTED FOR THE REMOVAL OR RELOCATION OF EQUIPMENT, OR BECAUSE OF BUILDING ALTERATIONS, THEY SHALL BE RECONNECTED AND MADE OPERATIONAL. UNLESS OTHERWISE NOTED, ALL MATERIALS AND EQUIPMENT SHOWN OR SPECIFIED TO BE REMOVED SHALL BE SURVEYED BY THE OWNER. THE OWNER OR OWNER'S REPRESENTATIVE SHALL DETERMINE WHICH EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER. RETAINED EQUIPMENT SHALL BE STORED BY THE CONTRACTOR AT THE OWNER'S DIRECTIVE. ALL OTHER EQUIPMENT AND MATERIALS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.

CONTRACTOR SHALL DO ANY AND ALL CUTTING AND PATCHING REQUIRED FOR THE SCOPE OF THIS WORK. RESTORING ALL SURFACES TO THEIR ORIGINAL, ADJACENT CONDITIONS AND IN COMPLIANCE WITH CUTTING AND PATCHING SPECIFICATIONS. ALTERATIONS TO ANY STRUCTURAL MEMBER, EITHER WOOD, STEEL OR CONCRETE, SHALL REQUIRE THE APPROVAL OF THE ARCHITECT.

THE CONTRACTOR SHALL REMOVE ALL SUPPORTING ITEMS NO LONGER NEEDED OR MADE OBSOLETE BY THE NEW EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT. SUCH REMOVAL INCLUDES, BUT IS NOT LIMITED TO, EXPOSED CONDUIT RUNS WITH WIRING AND SUPPORT BRACKETS, ABANDONED PIPING, SUPPORT FRAMES OR BASES, SWITCHES AND CONTROLS. COORDINATE WITH ELECTRICAL DEMOLITION DRAWINGS WHERE APPLICABLE.

**KEYNOTE SCHEDULE**

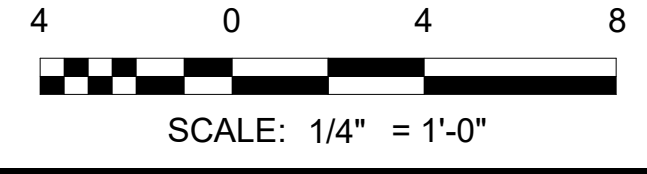
#	KEYNOTE DESCRIPTION
D1	REMOVE EXISTING BOILER AND ASSOCIATED GAS PIPE, RECIRCULATION PUMPS, HOT WATER PIPE, AND FLUE VENT. REMOVE GAS PIPE AS SHOWN. REMOVE LWS AND LWR PIPING BACK TO MAIN 10" LWS PIPING AND CAP.
D2	REMOVE EXISTING COOLING TOWER (CT-1). DISCONNECT ALL ASSOCIATED MAKEUP WATER PIPE, CWS PIPE, AND CWR PIPE. REMOVE OVERFLOW AND DRAIN PIPING. EXISTING STEEL SUPPORT, STAND, AND SERVICE PLATFORM SHALL REMAIN.
D3	REMOVE EXISTING CWS, CWR, AND MAKEUP WATER LINES LOCATED OUTSIDE AND ABOVE GRADE. REFER TO RENOVATION PLANS FOR NEW PIPING, HEAT TAPE, AND INSULATION.
D5	EXISTING DOMESTIC WATER HEATER TO REMAIN. DISABLE UNIT AND REMOVE ASSOCIATED FLUE VENT AND GAS PIPE CONNECTIONS. REFER TO RENOVATION PLANS FOR NEW VENTING.
D6	REMOVE EXISTING EXPANSION TANK. REFER TO RENOVATION PLANS FOR NEW EXPANSION TANK.
D7	REMOVE AND TRIM BACK EXISTING NATURAL GAS PIPING BACK TO THIS POINT.
D8	REMOVE EXISTING LWS PIPING BACK TO THIS POINT. REWORK PIPING PER RENO. PLANS.
D9	REMOVE EXISTING SECTION OF LWS PIPING. REWORK PIPING PER RENO. PLANS.
D10	REMOVE EXISTING LWR PIPING BACK TO THIS POINT. REWORK PIPING PER RENO. PLANS.
D11	REMOVE SECTION OF EXISTING LWR. REWORK PIPING PER RENO. PLANS.
D12	REMOVE EXISTING CWS BACK TO THIS POINT. REWORK PIPING PER RENO. PLANS.
D13	REMOVE SECTION OF EXISTING CWS. REWORK PIPING PER RENO. PLANS.
D14	REMOVE EXISTING CWS BACK TO THIS POINT. REWORK PIPING PER RENO. PLANS.
D15	REMOVE SECTION OF EXISTING CWR PIPE. REWORK PIPING PER RENO. PLANS.
D16	EXISTING PIPE TO REMAIN.
D17	REMOVE EXISTING CHEMICAL TREATMENT PLANT AND ASSOCIATED PIPING. REFER TO RENOVATION PLANS FOR REPLACEMENT.
D18	REMOVE CHEMICAL TREATMENT PIPING. SEE RENOVATION PLANS FOR NEW PIPING.
D19	REMOVE EXISTING SHELL AND TUBE HEAT EXCHANGER, ASSOCIATED PIPING, AND STANDS.
D20	OWNER SHALL COORDINATE REMOVAL OF EXISTING LOUVER AND WALL PATCHING.
D21	REMOVE EXISTING PUMP AND ASSOCIATED PIPING AND MECHANICAL PAD. REFER TO RENOVATION PLANS FOR NEW PUMP.
D22	EXISTING GAS UNIT HEATER TO BE REMOVED AND REPLACED. REMOVE ASSOCIATED GAS PIPING AND FLUE DUCT.
D23	REMOVE EXISTING GAS PIPE - RE. RENOVATION PLANS FOR GAS PIPE REWORK.
D24	EXISTING NATURAL GAS PIPE TO REMAIN.
D25	EXISTING HORIZONTAL EXPANSION TANK TO BE REMOVED. REMOVE ASSOCIATED SUPPORT AND PIPING.
D26	REMOVE EXISTING PUMP AND ASSOCIATED PIPING TO BE REMOVED AND CAPPED.
D27	EXISTING BOILER C/W PIPING TO BE CAPPED AT THIS POINT.
D28	EXISTING OVERHEAD FLUE TO BE REMOVED. REMOVE FLUE BACK TO 12" BELOW DECK AND CAP. SECURE IN PLACE WITH MECHANICAL FASTENERS AND A PAIR OF UNISTRUTS.
D29	EXISTING OVERHEAD PIPE AND ASSOCIATE PIPE HANGERS TO BE REMOVED.
D30	EXISTING GAS METER SHALL REMAIN. VERIFY WITH UTILITY PROVIDER AND FIELD VERIFY (MEASURE) THE DELIVERY PRESSURE PRIOR TO ORDERING OF GAS PRESSURE REGULATOR AND CONNECTION TO ANY PIECE OF EQUIPMENT.
D31	REMOVE EXISTING NATURAL GAS PIPING.
D32	EXISTING OVERHEAD PIPE TO BE REMOVED. ABANDON PIPING IN PLACE ONLY IF PIPING IS INACCESSIBLE.
D33	EXISTING ABANDON PIPE TO BE REMOVED. TRIM BACK CAP AT EXTERIOR WALL. PAINT CAP TO MATCH WALL.



1 M101 1/4" = 1'-0" MECHANICAL DEMOLITION PLAN

**HVAC LEGEND**

SYM.	DESCRIPTION	SYM.	DESCRIPTION
A/100	AIR DISTRIBUTION MARK / CFM	MAHU	MINI-SPLIT AIR HANDLING UNIT
AC	AIR CONDITIONER	MAU	MAKE-UP AIR UNIT
AD	ACCESS DOOR	MEP	MECHANICAL EQUIP. PAD - RE. ARCH.
AFF	ABOVE FINISHED FLOOR	MHP	MINI-SPLIT HEAT PUMP
AHP	AIR HANDLING HEAT PUMP UNIT	MOD	MOTOR OPERATED DAMPER
AHU	AIR HANDLING UNIT	MVD	MANUAL VOLUME DAMPER
B	BOILER	QA	OUTSIDE AIR
BMC	BUILDING MANAGEMENT CONTROLLER	P	PUMP
BPD	BYPASS DAMPER	PIU	POWERED INDUCTION UNIT
CFM	CUBIC FEET PER MINUTE	PMHP	PAD MOUNTED HEAT PUMP UNIT
CH	CHILLER	PMU	PAD MOUNTED UNIT
CR	CONDENSER WATER RETURN	RA	RETURN AIR
CD	CEILING DIFFUSER	RTHP	ROOF TOP HEAT PUMP UNIT
CS	CONDENSER WATER SUPPLY	RTU	ROOF TOP UNIT
CT	COOLING TOWER	SA	SUPPLY AIR
CU	CONDENSING UNIT	S.D.	SMOKE DAMPER
CWR	CHILLED WATER RETURN	S/FD	COMBO SMOKE/FIRE DAMPER
CWS	CHILLED WATER SUPPLY	So.a	OUTDOOR AIR SENSOR - ENTHALPY
D	DRAIN	S.P.	STATIC PRESSURE
DCS	DUST COLLECTION SYSTEM	TWHP	THROUGH THE WALL HEAT PUMP UNIT
DF	DUCT FURNACE	VAV	VARIABLE AIR VALVE
DG	DOOR GRILLE	VRFC	VARIABLE REFRIGERANT FAN COIL
DN	DOWN	VVT	VARIABLE VOL. VARIABLE TEMP. VALVE
EDH	ELECTRIC DUCT HEATER	WHP	WALL HUNG HEAT PUMP UNIT
EF	EXHAUST FAN	CO	CARBON MONOXIDE SENSOR
EH	ELECTRIC HEATER	ES	EMERGENCY SHUTDOWN BUTTON
ERV	ENERGY RECOVERY VENTILATOR	HI	HUMIDISTAT
EUH	ELECTRIC UNIT HEATER	I	INTERVAL TIMER
FD	FIRE DAMPER	N	NIGHT SETBACK
FLDG	FUSIBLE LINK DOOR GRILLE	S	ROOM SENSOR
GF	GAS FURNACE UNIT	T	THERMOSTAT
GIH	GRAVITY INTAKE HOOD	W	WALL MOUNTED SWITCH
GRH	GRAVITY RELIEF HOOD	○	SPECIFIC KEYED NOTE
GWU	GAS WALL HUNG UNIT	≡	SPIN-IN W/S COOP & VOL. DAMPER
GUH	GAS UNIT HEATER	○+	DOOR GRILLE
HP	HEAT PUMP	◇	FIRE DAMPER IN CEILING
HRE	HEAT RECOVERY FAN	≡	EXTRACTOR
HVS	HOODED VENTILATION SYSTEM	≡	FIRE DAMPER IN WALL
HWR	HEATING WATER RETURN	≡	DUCT W/ ACOUSTICAL LINER
HWS	HEATING WATER SUPPLY	≡	DUCT W/ TURNING VANES
L	LOUVER	⊗	SUPPLY AIR
L/D	COMBO LOUVER / DAMPER	⊙	RETURN / EXHAUST AIR
		○	VENT THROUGH ROOF



**SA&E PROJECT NUMBER** 01-415-001  
**BID PACKAGE** BP-1  
**ISSUED FOR CONSTRUCTION** 08-23-2023

**Southern A&E**  
 7951 Troon Circle  
 Austell, Ga 30168  
 (770) 819-7777  
 architects & engineers

**REVISIONS**

R#	Doc #	Date
1	AD2	09/08/23

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**REPLACEMENT OF COOLING TOWER & BOILER:**  
**THREADMILL COMPLEX**  
 5000 AUSTELL POWDER SPRINGS ROAD  
**THE CITY OF AUSTELL**  
 5000 AUSTELL POWDER SPRINGS ROAD

**MECHANICAL DEMOLITION PLAN, LEGEND AND GENERAL NOTES**

**DRAWING NUMBER** M101

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS  
 SOUTHERN A & E, LLC  
 ENGINEER FIRM  
 LICENSE NO. PE039850  
 EXP. DATE - 06/30/2024