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HYDRONIC AND PLUMBING PIPING





SYMBOL	DESCRIPTION
CA	COMPRESSED AIR
CHWS	CHILLED WATER SUPPLY
CHWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CD	CONDENSATE DRAIN
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
LOW	LABORATORY COLD WATER
LHW	LABORATORY HOT WATER
LHWR	LAB HOT WATER CIRCULATION
LW	LABORATORY WASTE
LV	LABORATORY VENT
NATURAL GAS	NATURAL GAS
VACUUM PIPING	VACUUM PIPING
REVERSE OSMOSIS (RO) WATER	REVERSE OSMOSIS (RO) WATER
DEIONIZED (DI) WATER	DEIONIZED (DI) WATER
VALVE - SEE SPECIFICATIONS FOR VALVE TYPE	VALVE - SEE SPECIFICATIONS FOR VALVE TYPE
CHECK VALVE	CHECK VALVE
TWO WAY CONTROL VALVE	TWO WAY CONTROL VALVE
THREE WAY CONTROL VALVE	THREE WAY CONTROL VALVE
BALANCING VALVE	BALANCING VALVE
SOLENOID CONTROL VALVE	SOLENOID CONTROL VALVE
PRESSURE REDUCING VALVE	PRESSURE REDUCING VALVE
STRAINER WITH VALVE AND HOSE CONNECTION	STRAINER WITH VALVE AND HOSE CONNECTION
STRAINER	STRAINER
STEAM TRAP	STEAM TRAP
FLEXIBLE CONNECTION	FLEXIBLE CONNECTION
TEST PLUG	TEST PLUG
PRESSURE GAUGE	PRESSURE GAUGE
PRESSURE RELIEF VENT	PRESSURE RELIEF VENT
PIPE BREAK	PIPE BREAK
PIPE SLOPE	PIPE SLOPE
DIRECTION OF FLOW	DIRECTION OF FLOW
PIPE UP	PIPE UP
PIPE DOWN	PIPE DOWN
PIPE T DOWN	PIPE T DOWN
PIPE T UP	PIPE T UP
PIPE CAP	PIPE CAP
UNION	UNION
REDUCER	REDUCER
PIPE ANCHOR	PIPE ANCHOR
PIPE GUIDE	PIPE GUIDE
THERMOMETER OR SIGHT GLASS	THERMOMETER OR SIGHT GLASS
FLOW METER	FLOW METER

MECHANICAL DUCTWORK





SYMBOL	DESCRIPTION
	INSIDE DUCT SIZE (FIRST SQUARE IS SIZE SHOWN)
	MOTORIZED DAMPER
	BACKDRAFT OR BAROMETRIC DAMPER
	SUPPLY AIR - DUCT DOWN
	RETURN AIR - DUCT DOWN
	EXHAUST AIR - DUCT DOWN
	SUPPLY AIR - DUCT UP
	RETURN AIR - DUCT UP
	EXHAUST AIR - DUCT UP
	FLEXIBLE DUCT CONNECTION
	DIRECTION OF FLOW
	MITERED ELBOW WITH TURNING VANES
	LONG RADIUS ELBOW
	RECTANGULAR MAIN DUCT WITH RECTANGULAR BRANCH, BOOT FITTING
	MANUAL VOLUME DAMPER
	ROUND MAIN DUCT WITH ROUND BRANCH, CONICAL FITTING
	RECTANGULAR MAIN DUCT WITH ROUND BRANCH, CONICAL FITTING
	MANUAL VOLUME DAMPER
	ROUND MAIN DUCT WITH ROUND BRANCH, STRAIGHT FITTING
	REHEAT COIL

FIRE ALARM



SYMBOL	DESCRIPTION
	HEAT DETECTOR (COMBINATION FIXED RATE AND RATE OF RISE) - 5° F/SEC. @ 94°F.
	FIRE ALARM BELL - 150mm DIAMETER

MECHANICAL GENERAL SYMBOLS	
SYMBOL	DESCRIPTION
	EQUIPMENT DESIGNATION
	KEYNOTE
	CONNECT NEW TO EXISTING AT THIS POINT
	DEMOLISH TO THIS POINT

MECHANICAL GENERAL SYMBOLS

SYMBOL	DESCRIPTION
	EQUIPMENT DESIGNATION
	KEYNOTE
	CONNECT NEW TO EXISTING AT THIS POINT
	DEMOLISH TO THIS POINT

DIFFUSERS, REGISTERS, AND GRILLES

SYMBOL	DESCRIPTION
	CEILING SUPPLY AIR DIFFUSER ARROW INDICATES DIRECTION OF THROW
	CEILING EXHAUST AIR GRILLE











GENERAL NOTES - MECHANICAL

- A. DEMOLITION AND RENOVATION
CONTRACTOR TO FIELD VERIFY DIMENSIONS AND LOCATION OF ALL EXISTING MECHANICAL, PLUMBING, ELECTRICAL

GENERAL NOTES - ELECTRICAL

- A. CUTTING AND PATCHING
GENERAL CONTRACTOR TO COORDINATE ALL CUTTING/CORE DRILLING AND PATCHING REQUIRED FOR THE ELECTRICAL INSTALLATIONS, BEFORE CARRYING OUT ANY CUTTING, OBTAIN WRITTEN APPROVAL FROM THE DEPARTMENTAL REPRESENTATIVE.
- B. FIREPROOF PATCHING
SINGLE CONDUCTOR CABLES PASS THROUGH FIRE RATED FLOOR SLABS, FIRE RATED CEILINGS OR FIRE RATED WALLS, SEAL OPENINGS AROUND WITH SAME TO MAINTAIN FIRE SEPARATION USING APPROVED ULC RATED FIRE PATCHING MATERIAL.
- C. DEPARTMENTAL REPRESENTATIVE SUPPLIED EQUIPMENT.
MAKE FINAL CONNECTIONS TO DEPARTMENTAL REPRESENTATIVE SUPPLIED EQUIPMENT, CONFIRM ELECTRICAL REQUIREMENTS SUCH AS PLUG ARRANGEMENT AND OR HARD WIRE CONNECTIONS PRIOR TO PULLING OF WIRES, CONDUIT ROUGHING, OR ORDERING MATERIALS SUCH AS BREAKERS IN PANELS, DISCONNECT SWITCHES, ETC.

ELECTRICAL AND TELECOMMUNICATION

SYMBOL	DESCRIPTION
	1x4 LED LIGHT FIXTURE RECESSED CEILING MOUNTED
	2x2 LED LIGHT FIXTURE RECESSED CEILING MOUNTED
\$	LINE VOLTAGE TOGGLE SWITCH
\$ ³	LINE VOLTAGE THREE-WAY TOGGLE SWITCH
\$ ⁴	LINE VOLTAGE FOUR-WAY TOGGLE SWITCH
	DUAL CHANNEL RECEPTACLE
	NEMA 5-20R RECEPTACLE
	NEMA 5-20R RECEPTACLE WITH USB PORT
	JUNCTION BOX
	RECESSED ELECTRICAL PANEL
	SINGLE PHONE OUTLET
	SINGLE DATA OUTLET
	SINGLE ALARM MONITORING BOX
P	PROTECTIVE POINT TO THE RACEWAY INSIDE NEW WALL CANNOT ELECTRICAL PROTECTIVE POINT BEING IN