SYMBOLS

VALVES

- ANGLE, NO
- BALL (OPEN)
- BUTTERFLY
- BLOWDOWN
- CHECK
- STOP CHECK
- ANGLE STOP CHECK
- DRIP CHECK AUTOMATIC BALL
- AUTOMATIC CHECK POSITIVE CLOSING
- AUTOMATIC CHECK (PNEUMATIC)
- SPRING CHECK
- EXCESS FLOW CHECK (WEIGHT ASSISTED)
- EXCESS FLOW CHECK (SPRING LOADED)
- CONTROL
- DIAPHRAGM
- EXPLOSIVE
- GATE
- GLOBE
- HOSE,ANGLE
- HOSE,GATE
- HOSE,GLOBE
- NEEDLE
- PLUG
- 3-WAY PLUG
- 4-WAY PLUG
- PRESSURE REGULATOR (INTERNAL PRESS TAP)
- PRESSURE REGULATOR (EXTERNAL PRESS TAP)
- REHEAT INTERCEPT STOP VALVE
- FLOW CONTROL W/BUILT IN SOLENOID OPERATED VALVE
- SHEAR VALVE

--RELIEF, SAFETY--

- ANGLE SAFETY RELIEF
- STRAIGHT SAFETY RELIEF
- STEM LEAKOFF
- VACUUM BREAKER
- VACUUM PRIMING VALVE
- 3-WAY
- 4-WAY

--VALVE OPERATORS--

- AIR OPERATOR
- FLOAT OPERATOR
- HYDRAULIC OPERATOR
- PISTON OPERATOR
- MOTOR OPERATOR
- SOLENOID OPERATOR

SPECIALTY

- ANNUBAR
- AIR VENT VALVE AUTOMATIC
- LIQUID DRAINER
- INSTRUMENT DIAPHRAM SEAL
- PRESSURE REGULATOR
- RELAY
- RESIN TRAP
- RUPTURE DISC
- SCREEN
- STRAINER
- DUPLEX STRAINER
- SINGLE BASKET STRAINER
- TEMP STRAINER
- TANK SCREEN STRAINER
- Y-TYPE STRAINER
- TRAP
- FLOW ELEMENT OR RESTRICTING ORIFICE
- FLOW INDICATOR
- FLOW INDICATOR, IN LINE SIGHT GLASS OR LEVEL GLASS
- FLOW INDICATOR, IN-LINE ROTATING
- FLOW NOZZLE
- FILTER
- IN LINE DRYER
- EXPANSION JOINT
- GAUGE SNUBBER

LINE

- CHANGE OF LINE SPECIFICATION
- (A-1) DWG. NO. — CONTINUING TO DWG.NO. AT GRID COORDINATE A-1
- (A-1) DWG. NO. — CONTINUING FROM DWG.NO. AT GRID COORDINATE A-1
- PRIMARY PROCESS
- SECONDARY PROCESS
- BY OTHERS OR EXISTING
- CAPILLARY TUBING
- PNEUMATIC SIGNAL
- HEAT TRACED (ELECTRICAL)
- HEAT TRACED (STEAM)
- ELECTRICAL SIGNAL
- BEARING
- CONTAINMENT PENETRATION
- DIRECTION OF FLOW
- DRAIN, OPEN
- DRAIN, FLOOR
- DRAIN, ROOF
- BLIND FLANGE
- CONNECTION FLANGE
- INSULATING FLANGE
- SPECTACLE FLANGE
- FLEXIBLE CONNECTION
- SCREWED CAP FOR NITROGEN CHARGING SYS.
- SCREWED PLUG FOR INSTRUMENT TEST CONN.
- SPARGER
- SPRAY NOZZLE
- TARGET PLATE
- VENT
- CAPPED LINE (BW)
- HOSE CONNECTION
- PLUG OR CAP
- MIN. LOOP SEAL
- REMOVABLE SPOOL
- REDUCER
- RESIN TRANSFER PIPING

EQUIPMENT

- AGITATOR OR MIXER
- MIXER
- COMPRESSOR PISTON TYPE
- COMPRESSOR, ROTARY TYPE, OR VACCUM PUMP
- DESUPERHEATER
- ELECTRIC MOTOR DRIVE
- JET AIR EJECTOR OR EDUCTOR
- EXCHANGER, HEAT OR COOL
- SAMPLE COOLERS OR ROOM COOLERS
- TANK
- PRESSURE VESSEL
- TURBINE
- TURBINE DRIVE

--PUMPS--

- CENTRIFUGAL
- IN-LINE
- POSITIVE DISPLACEMENT
- SUMP
- VERTICAL LIFT
- VERTICAL (OPEN SUCTION BELL TYPE)

HVAC

- ALARM IN CONTROL RM PANEL 5F/6F
- AIR DUCT, SUPPLY
- AIR DUCT, EXHAUST OR RETURN
- AIR FILTER PREFILTER
- AIR FILTER HEPA
- AIR FILTER CARBON
- REFRIGERANT FILTER
- BALANCING HVAC
- BIRD SCREEN
- AIR WASHER
- LOUVER
- COOLING COIL
- COIL REHEATER
- HEATING COIL
- RADIANT HEATER
- DEMISTER
- DIRECT EXPANSION COIL
- COIL PREHEATER
- FS FLOW SWITCH
- TC TEMPERATURE CONTROLLER
- H HUMIDSTAT
- TS THERMOSTAT
- UH UNIT HEATER
- HUMIDIFIER
- POS POSITION LIMIT SWITCH
- P/E PNEUMATIC/ELECTRIC SIGNAL CONNECTOR

--DAMPERS--

- BACKDRAFT
- FAIL CLOSE TYPE
- FD FIRE
- G GRAVITY
- VD MANUAL OPERATED VOLUME
- M MOTOR OPERATED
- OPPOSED BLADE
- PARALLEL BLADE
- WITH POSITIONER

--FANS,VENTILATORS--

- AXIAL
- AXIAL WITH VORTEX DAMPER
- A FAN BLADE PITCH ACTUATOR
- P ACTUATOR POSITIONER
- CENTRIFUGAL
- WITH/INLET VORTEX DAMPER
- VENTILATOR POWERED ROOF
- PROPELLER

--HVAC LINE--

- RETURN OR TRANSFER AIR
- SUPPLY OR OUTSIDE AIR
- SUPPLY OUTLET
- RETURN / EXHAUST INLET

FIRE PROTECTION

- AV FLOW ALARM VALVE
- WATER MOTOR ALARM
- ALARM CHECK VALVE FOR WET PIPE SPRINKLER SYST.
- DELUGE VALVE (NORMALLY CLOSED)
- SMOKE DETECTOR
- DRY PIPE VALVE
- FLAME ARRESTER
- FIRE HYDRANT
- HOSE MANIFOLD WITH 6 2 1/2" HOSE VALVES FOR TESTING FIRE PUMPS
- HOSE REEL WITH HOSE
- HOUSED HYDRANT, 2 OUTLETS WITH VALVES, 250 FT. HOSE ATTACHED TO ONE OUTLET
- POST INDICATING GATE
- POST INDICATING BUTTERFLY
- STRAINER,IN-LINE BASKET WITH BLOW-OFF VALVE
- TRAP
- WATER CABINET WITH HOSE
- SG SIGHT GLASS GLOBE VALVE

MISCELLANEOUS

- PANEL MOUNTED INSTRUMENT
- (XX) RACK OR PANEL NO.
- LOCAL INSTRUMENT
- BEHIND PANEL INSTRUMENT
- (XX) (XX) TRANSMITTER
- (XX) INTERLOCK
- O C OPEN/CLOSE INDICATER
- RMC PNEUMATIC REMOTE MANUAL CONTROLLER
- RMS ELECTRICAL REMOTE MANUAL SWITCH
- T AIR FILTER THROWAWAY
- A AIR FILTER AUTOMATIC ROLL TYPE
- PRESSURE TAP
- ITS IMPORTANT TO SAFETY
- NITS NOT IMPORTANT TO SAFETY
- SP SAMPLE POINT
- TIE-P TIE IN POINT
- MANOMETER
- IL SYS XXX HEAT TRACE PILOT LIGHT

NOTES:

1. THIS DRAWING IS BASED ON BR-2001 SHEET 1 REVISION 21.

TABLE OF ADDITIONS & CHANGES

NO	DATE	DESCRIPTION	REV'D	CHK'D	APP'D
0	7 20 05	INITIAL ISSUE FOR LICENSE RENEWAL	JNV	MJM	KPM

MECHANICAL

LICENSE RENEWAL SCOPING DRAWING MECHANICAL SYMBOLS

OYSTER CREEK
AmerGen

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