HEATING, VENTILATING, AND AIR CONDITIONING PIPE AND FITTING SYMBOLS

DOUBLE LINE | SINGLE LINE

- NEW PIPE
- GROOVED END JOINT
- FLANGED JOINT
- FLEXIBLE COUPLING
- GROOVED END / GROOVED END ADAPTER FLANGE
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- LATERAL UP
- LATERAL DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION
- ANCHOR
- PIPE ALIGNMENT GUIDE
- FLEXIBLE (ELASTOMER) PIPE CONNECTION

NOTES:

1. ONLY FLANGED FITTINGS ARE SHOWN FOR DOUBLE LINE PIPING. FITTINGS WITH OTER END PATTERNS ARE SIMILAR.
2. EXISTING PIPING AND EQUIPMENT IS SHOWN LIGHT LINED AND/OR SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY-LINED.-

VALVE SYMBOLS

SINGLE LINE | DOUBLE LINE

- GATE
- BUTTERFLY — OR
- GLOBE — OR
- BALL — OR
- SEATING PORT
- ECCENTRIC PLUG — OR
- PLUG OR COCK — OR
- SWING CHECK — OR
- BALL CHECK — OR
- B — BALANCING FITTING
- PRESSURE RELIEF
- AIR VENT (MANUAL)
- REGULATED SIDE PRESSURE CONTROL
- MULTI-PORT VALVE (GLOBE VALVE SHOWN. FOR OTHER VALVE TYPES, APPROPRIATE VALVE SYMBOL SHOWN). ARROWS INDICATE FLOW PATTERN. SEATING PORTS ARE IMPLIED BY INDICATED FLOW PATTERN.
- S — SOLENOID VALVE
- T — TO TEMPERATURE SENSOR
- TEMPERATURE SENSING VALVE

MISCELLANEOUS PIPING SYMBOLS

- PUMP
- STRAINER
- THERMOMETER
- GAUGE WITH COCK

HVAC EQUIPMENT IDENTIFICATION

AHU	AIR HANDLING UNIT
BDD	BACKDRAFT DAMPER
CF	CEILING FAN
CU	CONDENSING UNIT
D	DIFFUSER
EF	EXHAUST FAN
EH	ELECTRIC UNIT HEATER
HVC	HVAC CONTROLLER
LV	LOUVER
MC	MAN COOLER FAN
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
OBD	OPPOSED BLADE DAMPER
RG	RETURN GRILLE
SF	SUPPLY FAN
SG	SUPPLY GRILLE

HVAC AIRFLOW IDENTIFICATION

EA	EXHAUST AIR
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR

FLOW STREAM IDENTIFICATION

1. REFER TO PIPE SCHEDULE ON SHEET W941001-F-0002 FOR FLOW STREAM IDENTIFICATION AND ADDITIONAL REQUIREMENTS.

HEATING, VENTILATING, AND AIR CONDITIONING SYMBOLS

- WALL REGISTER OR GRILLE (SUPPLY)
- CEILING DIFFUSER OR REGISTER (SUPPLY)
- CEILING REGISTER OR GRILLE (RETURN AND EXHAUST)
- WALL REGISTER OR GRILLE (RETURN AND EXHAUST)
- TURNING VANES
- 45 DEGREE ENTRY
- CONICAL TEE
- BELLMOUTH
- MANUAL OPPOSED-BLADE DAMPER
- MANUAL BUTTERFLY DAMPER
- OR — M — MOTORIZED DAMPER
- FLEXIBLE DUCTWORK
- DUCT TRANSITION FROM RECTANGULAR TO CIRCULAR DUCT
- T — ROOM TEMPERATURE SENSOR
- P — ROOM PRESSURE SENSOR
- H — ROOM HUMIDITY SENSOR
- HVC-x HVAC CONTROL PANEL

THIS DRAWING IS LOANED FOR SOLE USE OF THE INTENDED RECIPIENT AND ONLY FOR THE LIMITED PURPOSES FOR WHICH IT WAS PROVIDED. USE BY OTHER ENTITIES OR FOR OTHER PURPOSES IS PROHIBITED AND AT THE USER'S OWN RISK. DRAWINGS ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING RECIPIENT.

PART	REV	DESCRIPTION (REVISION OR ISSUE PURPOSE)	DRW	CHKR	DE	DVR	DM	DATE	PE	DATE	REVISION APPROVALS	SQUAD CHECK
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RPE: THEODORE J. PRICE, REGISTERED ENGINEER, No. 107130, STATE OF TENNESSEE, 03 JUL 2017

Teresa J. Pierce, P.E.

		DATE
DRW	J PIGMAN	06/16/17
CHKR	J McMURREN	06/16/17
DE	T PRICE	06/16/17
DVR		
DM	L ELLIS	06/16/17
PE	Teresa J. Pierce, P.E.	

REV. DATE — DRAWING APPROVALS — DATE

UCOR URS | CH2M Oak Ridge LLC

OF200 Mercury Treatment Facility

Designed by URS|CH2M Oak Ridge LLC (UCOR) for the Department of Energy
Oak Ridge Office of Environmental Management
under U. S. Government contract DE-SC-0004645

Y-12 National Security Complex managed and operated by Consolidated Nuclear Security, LLC for the Department of Energy under U.S. Government contract DE-NA0001942
• Oak Ridge, Tennessee •

PROJECT NAME: OF200 MERCURY TREATMENT FACILITY

HVAC
GENERAL
LEGEND AND GENERAL NOTES

USE	DISC	DT	DC	CM	SYSTEM	STAT	SIZE	BLDG	FL	CLASS
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