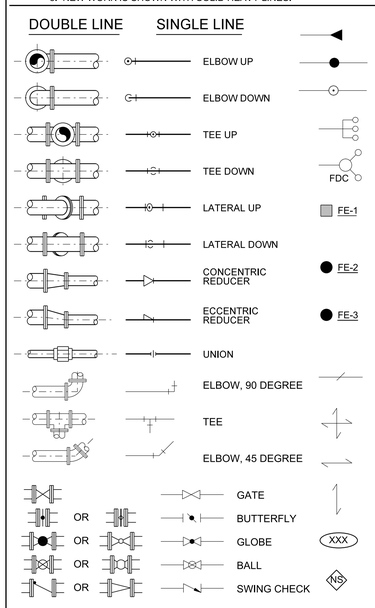
GENERAL NOTES:

1. FIRE SUPPRESSION DRAWINGS SHOW A DIAGRAMMATIC SYSTEM TO INCORPORATE MAJOR ELEMENTS FOR THE CONDITIONAL APPROVAL PRIOR TO THE FINAL DESIGN AND SUBMISSION PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL LAYOUT, DESIGN, CALCULATIONS. THE CONTRACTOR SHALL SUBMIT HIS DESIGN, CALCULATIONS AND PROPOSED EQUIPMENT TO THE GOVERNMENT FOR APPROVAL.
2. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS.
3. DRAWINGS INDICATE DESIGN INTENT AND GENERAL ROUTING OF FIRE AND SPRINKLER PIPING. CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL OFFSETS, FITTINGS, PROVIDING ADDITIONAL SPRINKLER HEADS TO MEET CODE REQUIREMENTS, ETC. TO COORDINATE PIPING LAYOUT WITH STRUCTURAL, DUCTWORK, PIPING, CONDUIT, ETC.
4. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, VERIFY DIMENSIONS, CONDITIONS AND LAYOUT AT JOB SITE PRIOR TO FABRICATION OF MATERIAL AND PROVIDE ANY ADDITIONAL MATERIAL OR MODIFICATIONS TO FURNISH A COMPLETE AND OPERABLE SPRINKLER SYSTEM TO MEET THE REQUIRED CODES.
5. THE FOLLOWING CODES AND STANDARDS SHALL APPLY:
   *NFPA 10 - 2013 EDITION, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.
   *NFPA 13 - 2013 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
   *NFPA 24 - 2013 EDITION, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
   *NFPA 25 - 2011 EDITION, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
   *NFPA 72 - 2013 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE
   *NFPA 101 - 2012 EDITION, LIFE SAFETY CODE
6. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND ALL GOVERNMENT REQUIREMENTS.
7. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS. FIRE STOPPING SHALL BE OF A U.L. LISTED AND/OR FM APPROVED ASSEMBLY.
8. HANGER LOCATIONS SHOWN ARE DIAGRAMMATIC. MEANS OF HANGING AND HANGER SPACING SHALL BE PER NFPA 13, AND COORDINATE WITH BUILDING STRUCTURE.
9. ALL CONTROL VALVES AND FLOW SWITCHES FOR THE FIRE SPRINKLER SYSTEM TO BE ELECTRONICALLY SUPERVISED AND MONITORED BY AN APPROVED CENTRAL STATION. FLOW SWITCHES & TAMPER SWITCHES SHALL BE FURNISHED AND INSTALLED BY DIV. 21. WIRING TO FIRE ALARM SYSTEM SHALL BE TERMINATED AND TESTED BY DIV. 28.
10. ALL CONTROL, DRAIN AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS. THE SIGN SHALL BE SECURED WITH CORROSION-RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS.
11. ALL MATERIALS SHALL BE U.L. LISTED AND/OR FM APPROVED.
12. SEE STRUCTURAL DRAWINGS FOR SEISMIC CLASSIFICATION. INSTALL SEISMIC BRACING IAW NFPA 13.
13. INSTALL PENDANT SPRINKLER HEADS ON RETURN BENDS.
14. PROVIDE A MINIMUM OF 3 FEET OF CLEARANCE IN FRONT OF ALL EQUIPMENT AND 6" BEHIND THE EQUIPMENT (IE CONTROL VALVES, ETC).
15. MECHANICAL COUPLINGS, GASKETS AND FITTINGS MUST BE FROM THE SAME MANUFACTURER.

FIRE PROTECTION SYMBOLS

1. SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. EXISTING TO REMAIN IS SHOWN WITH THIN LIGHT LINES.
3. NEW WORK IS SHOWN WITH SOLID HEAVY LINES.



ABBREVIATIONS

ACC	-	ACCESS	LBS	-	POUNDS
ADJ	-	ADJUSTABLE	LTG	-	LIGHTING
AFF	-	ABOVE FINISHED FLOOR	MH	-	MANHOLE
ALT	-	ALTERNATE	MAX	-	MAXIMUM
APPROX	-	APPROXIMATE	MEZZ	-	MEZZANINE
ARCH	-	ARCHITECTURAL	MFR	-	MANUFACTURER
ASSY	-	ASSEMBLY	MIN	-	MINIMUM/MINUTE
BLDG	-	BUILDING	MJ	-	MECHANICAL JOINT
BOT	-	BOTTOM	MISC	-	MISCELLANEOUS
CFCI	-	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MTD	-	MOUNTED
			MTG	-	MOUNTING
CL	-	CENTERLINE	NO	-	NUMBER
CLG	-	CEILING	NOM	-	NOMINAL
CMU	-	CONCRETE MASONRY UNIT	NPT	-	NATIONAL PIPE THREAD
CONN	-	CONNECTION/CONNECT	NTS	-	NOT TO SCALE
CONTR	-	CONTRACTOR	OC	-	ON CENTER
CORR	-	CORRIDOR	OD	-	OUTSIDE DIAMETER
DET	-	DETAIL	OFCI	-	OWNER FURNISHED CONTRACTOR INSTALLED
DIA	-	DIAMETER			
DIM	-	DIMENSION	OFOI	-	OWNER FURNISHED OWNER INSTALLED
DIV	-	DIVISION			
DN	-	DOWN	Ø	-	PHASE
DWG	-	DRAWING	PRESS	-	PRESSURE
EA	-	EACH	PIV	-	POST INDICATING VALVE
ELEV	-	ELEVATION	PRV	-	
EQUIP	-	EQUIPMENT	PSI	-	
ETR	-	EXISTING TO REMAIN	PSIG	-	
EXT	-	EXTERIOR	RAD	-	RADIUS
FDC	-	FIRE DEPARTMENT CONNECTION	REQD	-	REQUIRED
FH	-	FIRE HYDRANT	RPM	-	
FLG	-	FLANGE	SHT	-	SHEET
FLR	-	FLOOR	SPEC	-	SPECIFICATION
FPM	-	FEET PER MINUTE	SP	-	SPRINKLER
FT	-	FEET	SQ	-	SQUARE
FTG	-	FOOTING	TEMP	-	TEMPERATURE
GA	-	GAUGE	TOB	-	TOP OF BEAM
GAL	-	GALLON	TOD	-	TOP OF DECK
GALV	-	GALVANIZED	TOJ	-	TOP OF JOIST
GFCI	-	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	TOS	-	
GPM	-	GALLONS PER MINUTE	TYP	-	TYPICAL
HP	-	HORSEPOWER/HIGH POINT	UNO	-	
HVLS	-	HIGH VOLUME LOW SPEED	VOL	-	VOLUME
IN	-	INSIDE DIAMETER	W/	-	WITH
IAW	-	IN ACCORDANCE WITH	W/O	-	WITHOUT
IN	-	INCHES	WWF	-	WELD WIRE FABRIC
KV	-	KILOVOLT			
KW	-	KILOWATTS			
KWH	-	KILOWATT HOURS			

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PART	REV	DESCRIPTION (REVISION OR ISSUE PURPOSE)	DRW	CHKR	DE	DVR	DM	DATE	PE	DATE	REVISION APPROVALS	WE	AR	CV	ST	HV	EM	FP	PD	EE	IE	M	NP	SQUAD CHECK
	Ø	ISSUED FOR CONSTRUCTION	JP	JM	TP		LE	06/2017																

RPE: THEODORE J. PRICE, REGISTERED ENGINEER, COMMERCE, NO. 107130, STATE OF TENNESSEE — 03 JUL 2017

REV.	DATE

DRAWING APPROVALS		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.	

Digitally signed by Teresa J. Pierce, P.E.
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Date: 2017.06.29 08:30:00 -04'00'

UCOR URS | CH2M Oak Ridge LLC

OF200 Mercury Treatment Facility

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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

PLUMBING
TREATMENT FACILITY
FIRE SUPPRESSION LEGEND

USE	DISC	DT	DC	CM	SYSTEM	STAT	SIZE	BLDG	FL	CLASS
3	P	F	X	NC	FAC	AR	E	9410-02	X	U

SH.	OF	TYPE		PART	REV
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