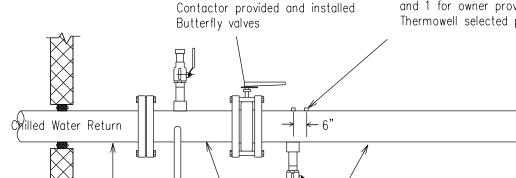


Two 1/2 "Thred-o-lets
Furnished and installed on top half of pipe
by Contractor
(Typ of supply and return lines)-

1 for owner provided and installed rubber P/T plug (FP&M #6189-5000), and 1 for owner provided and installed Thermowell selected per chart below.



1/2" bypass line and valve (Open for winter recirculation)

Steel pipe (typ)

Building outside wall Pumpdown tap:

Ductile

Iron

(typ)

Chilled Water Supply

penetration

1/2" Ball valve with nipple and screwed cap (Typ of 4)

1.	On	supply	line,	there	will	be	no	lines	other	than	bypass	and	pumpdown
	taps	s betwe	en b	uilding	ent	ran	се	and n	neter.		-		

2.	On	return	line.	there	will	be	no	lines	other	than	bypass	and	pumpdown	
	tap	os betw	een	temper	atur	e s	ens	ors a	nd bui	ilding	exit.			

	_	
Entrance	Thermowell	Thermowell
Pipe Diam	Insert Depth	FP&M
(in)	(in)	part no.
2	1.5	6647.7502
3	1.5	6647.7502
4	1.5	6647.7502
6	4	6647.7501
8	4	6647.7501

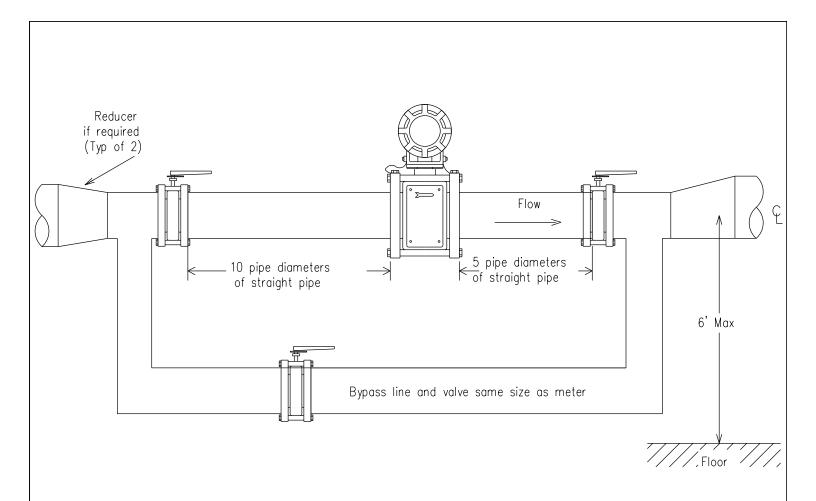
See Meter

Detail U-DX-2b

TYPICAL CHILLED WATER ENTRANCE

Mechanical Detail

 $\cup - \bigcirc \times - 2_{\mathrm{Rev}}$



NOTES:

- 1. WAFER STYLE METER, FLANGES, ALIGNMENT RINGS, STUDS, NUTS, AND GASKETS TO BE SIZED AND FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
- 2. METER TO BE NO CLOSER THAN 12" TO ANY WALL OR OBSTRUCTION.
- 3. USE NEVER SEIZE ON GROUNDING BOLTS.
- 4. ISOLATION VALVE FLANGES ARE NOT TO BE WELDED DIRECTLY TO REDUCERS.
- 5. BYPASS LINE SHOWN SCHEMATICALLY AS EXACT LOCATION WILL DEPEND ON INSTALLATION. BYPASS LINE TO PROVIDE ADEQUATE CLEARANCE AROUND METER ASSEMBLY.
- 6. SEE DETAIL U-DX-2C FOR ELECTRICAL CONNECTIONS.

PARTS LIST (ISU use. Only informational for Contractor):

ISU FP&M STORES 6647.4748-4760

6647.7455 6647.2702-2712 7900.2250-2400 1' - 8' WAFER MAG METER AND KIT TRANSMITTER HEAD MOUNTED ON METER. 1/8" THICK BUNA N GASKETS

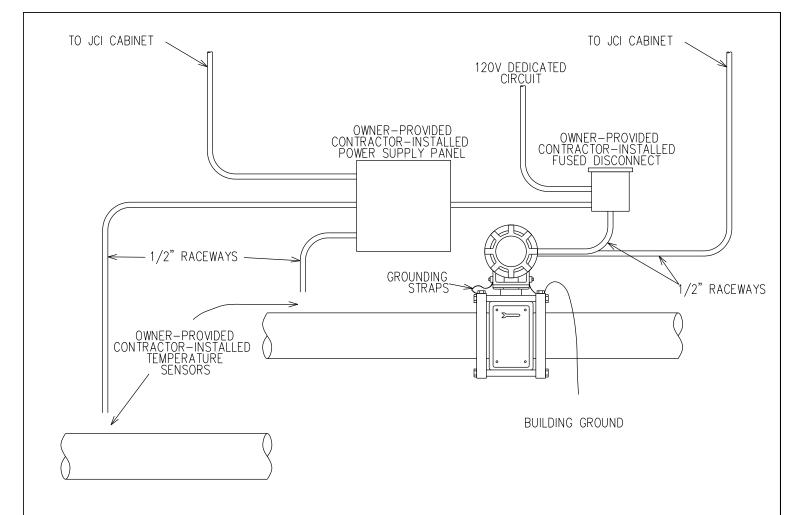
150# RAISED FACE SLIP ON WELDED STEEL FLANGE. OWNER TO TAP TOP OF FLANGES FOR 1/4" X 20 X 1/2" GROUNDING BOLT.

Meter Size (in)	Full Scale Meter Setup (Gpm)	Flange Bolt diam (in)	Bolt Torque (ft Ibs)	Face to Face Dimension (in)
1 1.5 2 3 4 6	50 120 200 455 800 1800 3400	1/2 1/2 5/8 5/8 5/8 3/4 3/4	10 15 25 40 30 50 70	2.13 2.73 3.26 4.62 5.83 6.87 8.86

STANDARD CHILLED WATER METER

Mechanical Detail

 $\bigcup - \bigcup X - 2b$ Rev 4/12/19



NOTES:

- ALL RACEWAYS SHALL BE EITHER (OR A COMBINATION OF): EMT, RMC, IMC, OR LFMC, AND WILL BE SUBJECT TO ANY ADDITIONAL REQUIREMENTS FOR SPECIAL LOCATIONS (POWER/CHILLER PLANTS, VAULTS, HAZARDOUS LOCATIONS). ALL RACEWAYS TO BE INSTALLED BY CONTRACTOR.
- POWER FOR THE FLOW METER AND TEMPERATURE SENSORS WILL BE A DEDICATED 20A, 120V AC CIRCUIT INSTALLED BY THE CONTRACTOR.
- JCI PROVIDED AND INSTALLED FLOW METER SIGNAL CABLE SHALL BE AN 18-2 SHIELDED CABLE.
- JCI PROVIDED AND INSTALLED TEMPERATURE SENSOR SIGNAL CABLES SHALL BE AN 18-2 SHIELDED CABLE, CLEARLY MARKED, AND LEFT AT A LENGTH OF AT LEAST 2 FEET AT THE POWER SUPPLY PANEL.
- ALL TERMINATIONS AT THE FLOW METER, TEMPERATURE SENSORS, AND POWER SUPPLY SHALL BE COMPLETED BY OWNER.
- 6. FLOW METER GROUNDING MUST MEET MANUFACTURERS INSTALLATION REQUIREMENTS.

PARTS LIST (ISU use. Only informational for Contractor):

6647.2500:

1/2" STIL FUSED DISCONNECT
12"X12"X8" 24v POWER SUPPLY PANEL
1/2" SS THERMOWELL, 1 1/2" IMMERSION
1 1/2" TEMPERATURE SENSOR AND TRANSMITTER
1/2" SS THERMOWELL, 4" IMMERSION
4" TEMPERATURE SENSOR AND TOWNS 6647.2510: 6647.7502:

6647.7499:

6647.7501:

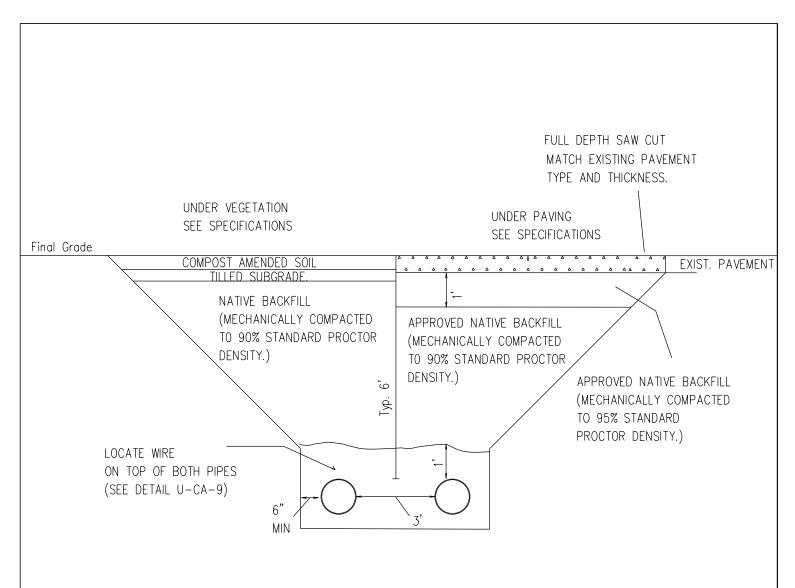
6647.7500:

4" TEMPERATURE SENSOR AND TRANSMITTER
18-2 SHIELDED 18-2 "ANALOG INPUT" BELDEN CABLE 1915.0281:

STANDARD CHILLED WATER METER

Flectrical Detail

U-DX-2cRev 4/12/19



TRENCH SLOPES SHALL CONFORM TO OSHA STANDARDS.

PIPE	BEDDING	TO CENTERLINE OF PIPE	1' COVER		
DUCTILE IRON	NATIVE MATERIAL AS PER SPEC	NATIVE MATERIAL HAND TAMPED	NATIVE MATERIAL HAND TAMPED		
HDPE	1" WASHED ROCK	1" WASHED ROCK HAND TAMPED	NATIVE MATERIAL HAND TAMPED		

STANDARD CHILLED WATER PIPE TRENCH