

Facility Repair Proposal

Region: 4A
Fac ID: PA027
Date: 12/19/22

CSS # 91106
Maximo Work Order No.: 11530

Asset ID: NA

Original Work Request:
Glycol leak on pipe located above circulating pump #2

Description of Repairs Needed:
Labor approximately (15) hours and material to fix
the glycol leak at PA027, replacing (1) valve

Parts List:
Copper Ball Valves
Misc. Copper Pipe and Fittings
Insulation

Equipment List:

ProPress Tool

PM History:
NA

Cost Proposal:
See attached RS Means Estimate.

Total Cost: \$4980.56

Estimate Name: CSS 91106 - WO 11530 - PA027 Glycol Leak Repairs

ESTIMATE INFORMATION

Client Name: 99th
Estimate Address: 950 New Castle Rd, Farrell, PA 16121
Type: Unit
Measurement System: US Standard
Notes:

COST DATA

Estimate Summary:

	Material		Labor		Equipment		Total*
Base Total	\$	1,842.28	\$	1,916.32	\$	-	\$ 3,758.60
Total O&P	\$	2,025.78	\$	2,954.78	\$	-	\$ 4,980.56

**Total* column values include the cost of Exception lines that may not be included in the Material, Labor and Equipment totals.

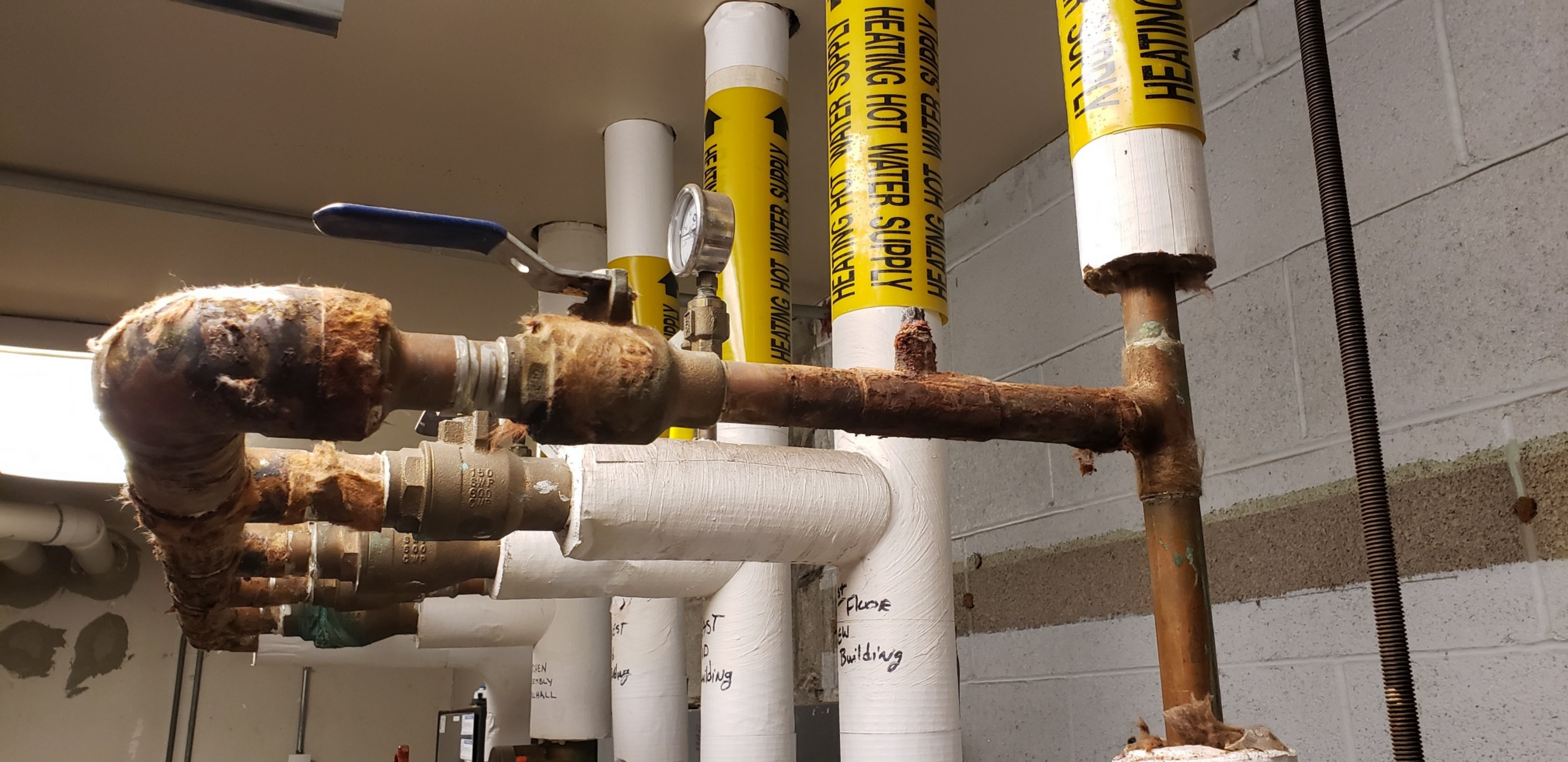
Catalog: Facilities and Commercial Renovation
Format: MasterFormat 2018
Release: Year 2022 Quarter 4
Labor Type: Repair & Remodeling
City Cost Index: PENNSYLVANIA / NEW CASTLE (161)

LEGEND

Line Source: U - User defined line item
A - Adjustment/Modifier
E - Exception lines

ESTIMATE

Quantity	LineNumber	Line Source	SubContracted Ind.	Description	Crew	Daily Output	Labor Hours	Unit	Material	Labor	Equipment	Total	Ext. Mat.	Ext. Labor	Ext. Equip.	Ext. Total	Mat. O&P	Labor O&P	Equip. O&P	Total O&P	Ext. Mat. O&P	Ext. Labor O&P	Ext. Equip. O&P	Ext. Total O&P	Labor Type	Notes
20.0	220719106870			Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 1" wall, 1" iron pipe size	Q14	220	0.073	L.F.	\$ 2.47	\$ 3.88	\$ -	\$ 6.35	\$ 49.40	\$ 77.60	\$ -	\$ 127.00	\$ 2.71	\$ 6.11	\$ -	\$ 8.82	\$ 54.20	\$ 122.20	\$ -	\$ 176.40	RR	
20.0	220719106890			Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 1" wall, 1-1/2" iron pipe size	Q14	210	0.076	L.F.	\$ 2.88	\$ 4.06	\$ -	\$ 6.94	\$ 57.60	\$ 81.20	\$ -	\$ 138.80	\$ 3.17	\$ 6.44	\$ -	\$ 9.61	\$ 63.40	\$ 128.80	\$ -	\$ 192.20	RR	
2.0	221113239000			Pipe, copper tubing, minimum labor/equipment charge	1 Plum	4	2	Job	\$ -	\$ 131.74	\$ -	\$ 131.74	\$ -	\$ 263.48	\$ -	\$ 263.48	\$ -	\$ 202.32	\$ -	\$ 202.32	\$ -	\$ 404.64	\$ -	\$ 404.64	RR	
2.0	221113259000			Pipe fittings, copper, minimum labor/equipment charge	1 Plum	4	2	Job	\$ -	\$ 131.74	\$ -	\$ 131.74	\$ -	\$ 263.48	\$ -	\$ 263.48	\$ -	\$ 202.32	\$ -	\$ 202.32	\$ -	\$ 404.64	\$ -	\$ 404.64	RR	
20.0	221113290238			Pipe, type L, copper, tubingt, 1" diameter, press-joint, includes coupling & clevis hanger assembly 10' OC	1 Plum	68	0.118	L.F.	\$ 9.08	\$ 7.72	\$ -	\$ 16.80	\$ 181.60	\$ 154.40	\$ -	\$ 336.00	\$ 10.02	\$ 11.90	\$ -	\$ 21.92	\$ 200.40	\$ 238.00	\$ -	\$ 438.40	RR	
30.0	221113290246			Pipe, type L, copper, tubingt, 1-1/2" diameter, press-joint, includes coupling & clevis hanger assembly 10' OC	1 Plum	52	0.154	L.F.	\$ 16.02	\$ 10.12	\$ -	\$ 26.14	\$ 480.60	\$ 303.60	\$ -	\$ 784.20	\$ 17.62	\$ 15.57	\$ -	\$ 33.19	\$ 528.60	\$ 467.10	\$ -	\$ 995.70	RR	
4.0	221113291820			Elbow, 90 Deg., copper, wrought, copper x copper, 1", press-joint	1 Plum	25.9	0.309	Ea.	\$ 13.71	\$ 20.23	\$ -	\$ 33.94	\$ 54.84	\$ 80.92	\$ -	\$ 135.76	\$ 15.03	\$ 31.05	\$ -	\$ 46.08	\$ 60.12	\$ 124.20	\$ -	\$ 184.32	RR	
4.0	221113291840			Elbow, 90 Deg., copper, wrought, copper x copper, 1-1/2", press-joint	1 Plum	18.3	0.437	Ea.	\$ 52.30	\$ 28.70	\$ -	\$ 81.00	\$ 209.20	\$ 114.80	\$ -	\$ 324.00	\$ 57.25	\$ 44.23	\$ -	\$ 101.48	\$ 229.00	\$ 176.92	\$ -	\$ 405.92	RR	
4.0	221113292220			Tee, copper, wrought, copper x copper x copper, 1", press-joint	1 Plum	19.4	0.412	Ea.	\$ 20.81	\$ 27.29	\$ -	\$ 48.10	\$ 83.24	\$ 109.16	\$ -	\$ 192.40	\$ 23.12	\$ 41.87	\$ -	\$ 64.99	\$ 92.48	\$ 167.48	\$ -	\$ 259.96	RR	
4.0	221113292240			Tee, copper, wrought, copper x copper x copper, 1-1/2", press-joint	1 Plum	13.8	0.58	Ea.	\$ 68.26	\$ 38.11	\$ -	\$ 106.37	\$ 273.04	\$ 152.44	\$ -	\$ 425.48	\$ 74.87	\$ 58.81	\$ -	\$ 133.68	\$ 299.48	\$ 235.24	\$ -	\$ 534.72	RR	
4.0	221113292820			Coupling, copper, wrought, copper x copper, 1", press-joint	1 Plum	25.9	0.309	Ea.	\$ 11.62	\$ 20.23	\$ -	\$ 31.85	\$ 46.48	\$ 80.92	\$ -	\$ 127.40	\$ 12.77	\$ 31.05	\$ -	\$ 43.82	\$ 51.08	\$ 124.20	\$ -	\$ 175.28	RR	
4.0	221113292840			Coupling, copper, wrought, copper x copper, 1-1/2", press-joint	1 Plum	18.3	0.437	Ea.	\$ 27.53	\$ 28.70	\$ -	\$ 56.23	\$ 110.12	\$ 114.80	\$ -	\$ 224.92	\$ 30.28	\$ 44.23	\$ -	\$ 74.51	\$ 121.12	\$ 176.92	\$ -	\$ 298.04	RR	
2.0	221113296430			Check valve, copper x copper, 1", press-joint	1 Plum	21.2	0.377	Ea.	\$ 36.88	\$ 24.94	\$ -	\$ 61.82	\$ 73.76	\$ 49.88	\$ -	\$ 123.64	\$ 40.74	\$ 38.11	\$ -	\$ 78.85	\$ 81.48	\$ 76.22	\$ -	\$ 157.70	RR	
2.0	221113296450			Check valve, copper x copper, 1-1/2", press-joint	1 Plum	15	0.533	Ea.	\$ 111.20	\$ 34.82	\$ -	\$ 146.02	\$ 222.40	\$ 69.64	\$ -	\$ 292.04	\$ 122.21	\$ 54.11	\$ -	\$ 176.32	\$ 244.42	\$ 108.22	\$ -	\$ 352.64	RR	
Grand Total												\$ 885.04	\$ 1,842.28	\$ 1,916.32	\$ -	\$ 3,758.60				\$ 1,197.91	\$ 2,025.78	\$ 2,954.78	\$ -	\$ 4,980.56		



HEATING HOT WATER SUPPLY

HEATING HOT WATER SUPPLY

HEATING HOT WATER SUPPLY

150
SWP
600
GWP

SWP
600
GWP

1st Floor
New Building

1st Floor
New Building

1st Floor
New Building



HEATING HOT WATER SUPPLY

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MAINTENANCE RECORD

MAINTENANCE RECORD

MAINTENANCE RECORD

MAINTENANCE RECORD

MAINTENANCE RECORD

West
Old
Building

#5

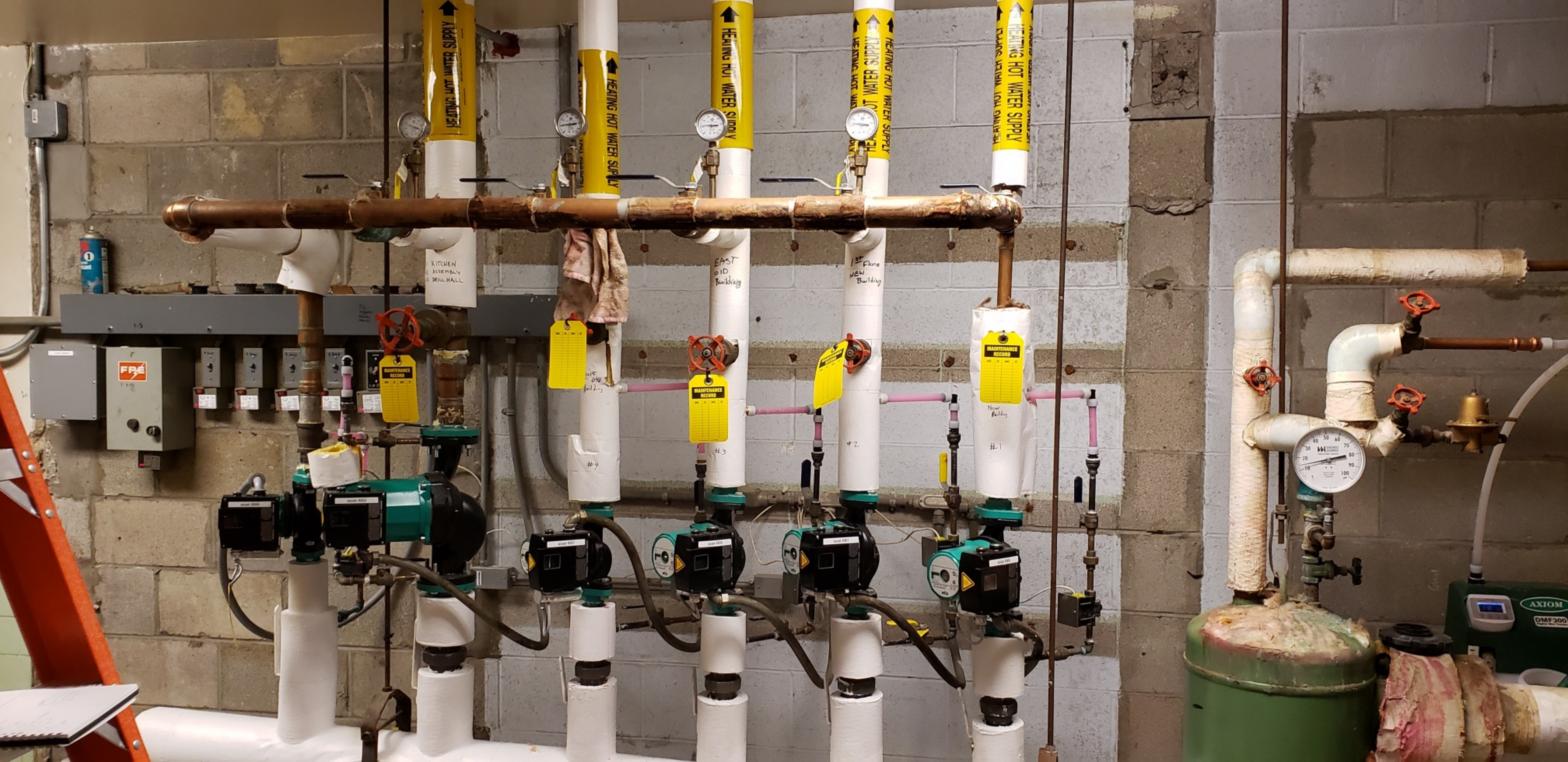
#2

P-6
STANDBY
MANUAL
VALVES





WARNING: (Required by California)
This product contains a chemical
known to the state of California
to cause Cancer and Birth Defects
or other Reproductive Harm.
This product meets the
requirement of the EPA
Safe Drinking Water Act.



KITCHEN
ASSEMBLY
DRILL HALL

EAST
OLD
Building

1st Floor
NEW
Building

MAINTENANCE
RECORD

New
Building

#1

MAINTENANCE
RECORD

#3

MAINTENANCE
RECORD

#4



AXIOM
DMF300