

WATER DISTRIBUTION SYSTEM LEAD MAPPING SUBMITTAL

PREPARED FOR:
**MOUNT CARMEL HEALTH SYSTEM
SISTER ROSE THOMAS HALL
PUBLIC WATER SYSTEM ID: OH2570722
793 WEST STATE STREET
COLUMBUS, OH 43222**

PREPARED BY:
**HULL & ASSOCIATES, INC.
6397 EMERALD PARKWAY, SUITE 200
DUBLIN, OHIO 43016**

MARCH 2017

MOUNT CARMEL HEALTH SYSTEM

SISTER ROSE THOMAS HALL

743 West State Street, Columbus, Franklin County, Ohio

PWS #OH2570722

In June 2016, House Bill (HB) 512 was passed to enact section 6109.121 of the Ohio Revised Code to establish requirements governing lead and copper testing for community and non-transient non-community public water systems and to revise law governing lead contamination from plumbing and fixtures. The law requires community water systems to identify and map areas of their distribution systems that are known or likely to contain lead service lines. These systems are also required to identify and provide a description of the characteristics of buildings served by the system that may contain lead solder, fixtures or pipes. Single building community water systems and non-transient non-community water systems are required to map areas of the system that have solder, fixtures and pipes containing lead.

In accordance with HB 512, Mount Carmel Health System, specifically Sister Rose Thomas Hall, PWS #OH2570722 worked with their engineering consultant to produce a water system map for only their tempered water (defined as public water system per OEPA). The tempered water system map includes assumed locations of the exterior (Figure 1) and interior (Figures 2a-2m) tempered water distribution system with color coded lines that indicate type and locations of main line and other available system features. Additionally, each floor is shaded grey due to the fact of unknown or no information available for the building.

EPA guidance provides the following: Based on amendments to the Safe Drinking Water Act (SDWA) and Ohio Plumbing Code, the age of a building or the age of a re-plumbing are indicators of the plumbing materials. **Buildings in Ohio built prior to 1998 or that use plumbing material or solder manufactured before 1998 may have materials with greater than 8% lead and are at a higher risk of contributing lead to the drinking water than materials manufactured after 1998. In addition, buildings built and plumbing materials manufactured after 2014 were required to have less than 0.25% lead by weight and have the lowest risk for contributing lead to drinking water. It should be noted however that, although prohibited, some use of leaded solder or leaded components may have occurred after the prohibitions became effective.**

Due to the age of the building (portion built in 1905), multiple renovations over the years (1905 – 2016), and the unavailability and knowledge of plumbing plans, the size, location and type of piping being unknown in The Sister Rose Thomas Hall Building.

Additionally, with the OEPA guidance in mind, it is unknown as to whether any piping, internal or external, contains components that exceed the 8% lead. ***Let it be known, however, that this entire building will be out of service by 2019 as services are being moved to another location within the State.***

Finally, Mount Carmel Health System, performs semi-annual Tier 2 testing for lead and copper (most recently on June 16, 2016) which is submitted to the OEPA. The ten separate testing locations within the Sister Rose Thomas Hall building are shown and labeled within Figures 2a – 2m. See attached Drinking Water Lead and Copper Monitoring Reports (EPA 5105 form) for the past year.

Mt. Carmel West - Sister Rose Building: Lead and Copper Sample Locations as depicted within Figures 2a, 2b, 2c.

- Test Location #1- 2 East - Maintenance Hand Sink 19306
- Test Location #2- 3 South - Next to Emergency Exit Hand Sink 19305
- Test Location #3- 3 South - Women's RR Sink (by Chillers) 19304
- Test Location #4- 3 South - Men's RR Right Sink (by Chillers) 19303
- Test Location #5- 3 South - Men's RR Left Sink (by Chillers) 19302
- Test Location #6- 1 South - Men's RR (1s52t) Sink 19301
- Test Location #7- 1 South - Boiler Room Hand Sink 19300
- Test Location #8- 1 South - Boiler Room RR(1p47t) Sink 19299
- Test Location #9- 1 South - Women's RR (1p75t) Right Sink 19298
- Test Location #10- 1 South - Women's RR (1p75t) Left Sink 19297

*All Sites are Tier 2 as there are no Tier 1 sites available in the Sister Rose Building.



DRINKING WATER LEAD AND COPPER MONITORING REPORT

PWS Name: <i>Mount Carmel West Hospital</i>	PWSID: <i>OH2570722</i>	County: <i>Franklin</i>	Population: <i>300</i>
PWS Address: <i>793 West State St. Columbus, OH 43222</i>	Phone: <i>(440)-829-3820</i>	Sampling begin date: <i>6/16/16</i>	Sampling end date: <i>6/28/16</i>
Monitoring Schedule: <input checked="" type="checkbox"/> "6 month" or "optional" <input type="checkbox"/> "annual" or "triennial"			

Return this completed form by mail or fax to the appropriate Ohio EPA district office (receipt being no later than 10 days after the end of the monitoring period). Retain a copy of this report in your files with supporting documentation for a minimum of 12 years.

Lead and Copper Tap Monitoring (First-Draw Samples)

a.	Number of sampling sites required: <i>10</i>	Number of samples analyzed: <i>10</i>
	If the number of samples analyzed is less than the standard number of sampling sites required for your water system, then explain why:	
b.	Were all sampling sites tier 1 sites? () Yes <input checked="" type="checkbox"/> No	If no, explain: <i>Due to age of building, no Tier 1 sites were available.</i>
c.	Were 50% of your lead samples from sites with Lead Service Lines? () Yes <input checked="" type="checkbox"/> No	If no, explain: <i>Service lines are not lead.</i>
d.	Have any of your sampling sites changed since the last monitoring period? () Yes <input checked="" type="checkbox"/> No	If yes, state which sites and explain:
e.	90 th % Lead Level (mg/L): <i>0.00831</i>	90 th % Copper Level (mg/L): <i>0.446</i>

When the 90th % Lead Level is 0.0155 mg/L (or higher) or the 90th % Copper Level is 1.350 mg/L (or higher), contact your Ohio EPA district office within three business days for additional requirements.

I certify that each first-draw lead and copper sample collected for our water system was one liter in volume, was taken from a kitchen or bathroom cold-water tap or a drinking fountain, and, to the best of my knowledge, had stood motionless in the service line and in the interior plumbing of the sampling site for at least six hours. I further certify that each tap sample collected by residents was taken after the water system informed them of proper sampling procedures.

Signature of Operator of Record

7-7-16
Date

ERIC A. BRITENSTONE
Printed Name

For Ohio EPA use only:	Received Date:	Monitoring Period:	Approved: () Yes () No
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DRINKING WATER LEAD AND COPPER MONITORING REPORT

Submit with Form EPA 5105

Page 1 of 1 pages

PWS Name: <i>Mount Carmel West Hospital</i>	PWSID: <i>OH 2570722</i>	Analytical Laboratory Name: <i>PACE Analytical</i>	Laboratory Certification No.: <i>NELAP/NELAC - #04130</i> <i>VAP - #CL0032</i> <i>Ohio EPA Drinking Water - #836</i>
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List samples sequentially by Laboratory Sample Number

Date of Sample	Time Sample Taken	Laboratory Sample Number	Address of Sample Site Example: 234 S Main St Town OH 40000	Tap Type* and Location Example: B 2 nd floor	Structure Type SFR, MFR or BLDG	Interior Plumbing Material Pb, CuPb>82, CuPb<83, or other	Service Line Material Pb, Cu, or other	Tier 1, 2, 3, or other	Lead Conc (ug/L)	Copper Conc (ug/L)
6/16/16	14:43	16F1360-01	293 West State St. Columbus, OH 43222	R 1 st Fl.	BLDG	CuPb<83	other**	2	BDL	0.000233
6/16/16	14:42	16F1360-02		R 1 st Fl.				2	3.80	0.000207
6/16/16	14:15	16F1360-03		R 1 st Fl.				2	BDL	0.0000994
6/16/16	14:45	16F1360-04		B 1 st Fl.				2	BDL	0.000155
6/16/16	14:37	16F1360-05		R 3 rd Fl.				2	10.0	0.000389
6/16/16	14:27	16F1360-06		R 3 rd Fl.				2	5.05	0.000341
6/16/16	14:27	16F1360-07		R 3 rd Fl.				2	8.31	0.000510
6/16/16	14:23	16F1360-08		B 3 rd Fl.				2	7.63	0.000446
6/16/16	14:30	16F1360-09		B 2 nd Fl.				2	BDL	0.0000631
6/16/16	14:34	16F1360-10		R 1 st Fl.				2	BDL	0.000223

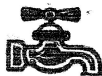
*Tap type codes: B – bathroom cold water tap; D – drinking fountain; K – kitchen sink cold water tap; R – restroom sink cold water tap; O – other (with prior Ohio EPA acceptance)

Note: 1 mg/L = 1000 ug/L

** Service lines are believed to be plastic.



Environmental
Protection Agency
Division of Drinking and Ground Waters



EPA 5105

DRINKING WATER LEAD AND COPPER MONITORING REPORT

PWS Name: Mount Carmel West Hospital	PWSID: OH2570722	County: Franklin	Population: 300
PWS Address: 793 West State Street Columbus, OH 43222	Phone: (614)-829- 3820	Sampling begin date: 12/14/15	Sampling end date: 12/28/15
Monitoring Schedule: <input checked="" type="checkbox"/> "6 month" or "optional" <input type="checkbox"/> "annual" or "triennial"			

Return this completed form to Ohio EPA, DDAGW-Central Office, PO Box 1049, Columbus, OH 43216-1049 or Fax to (614) 644-2909 (receipt being no later than 10 days after the end of the monitoring period). Retain a copy of this report in your files with supporting documentation for a minimum of 12 years.

Lead and Copper Tap Monitoring (First-Draw Samples)

a.	Number of sampling sites required: 10	Number of samples analyzed: 10
	If the number of samples analyzed is less than the standard number of sampling sites required for your water system, then explain why:	
b.	Were all sampling sites tier 1 sites? () Yes (X) No	If no, explain: Due to age of building, no Tier 1 sites were available.
c.	Were 50% of your lead samples from sites with Lead Service Lines? () Yes (X) No	If no, explain: Service lines are not lead.
d.	Have any of your sampling sites changed since the last monitoring period? () Yes (X) No	If yes, state which sites and explain:
e.	90 th % Lead Level (mg/L): 0.00370	90 th % Copper Level (mg/L): 0.305

When the 90th % Lead Level is 0.0155 mg/L (or higher) or the 90th % Copper Level is 1.350 mg/L (or higher), contact your Ohio EPA district office within three business days for additional requirements.

I certify that each first-draw lead and copper sample collected for our water system was one liter in volume, was taken from a kitchen or bathroom cold-water tap or a drinking fountain, and, to the best of my knowledge, had stood motionless in the service line and in the interior plumbing of the sampling site for at least six hours. I further certify that each tap sample collected by residents was taken after the water system informed them of proper sampling procedures.

Signature of Operator of Record

1-5-16
Date

ERIC A. BRENSTINE
Printed Name

For Ohio EPA use only:	Received Date:	Monitoring Period:	Approved: () Yes () No
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DRINKING WATER LEAD AND COPPER MONITORING REPORT

Submit with Form EPA 5105

Page 1 of 1 pages

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List samples sequentially by Laboratory Sample Number

Date of Sample	Time Sample Taken	Laboratory Sample Number	Address of Sample Site Example: 234 S Main St Town OH 40000	Tap Type* and Location Example: B 2 nd floor	Structure Type SFR, MFR or BLDG	Interior Plumbing Material Pb, CuPb>82, CuPb<83, or other	Service Line Material Pb, Cu, or other	Tier 1, 2, 3, or other	Lead Conc (ug/L)	Copper Conc (ug/L)
12/14/15	6:12am	15L0859-01	943 west State St. Columbus, OH 43222	R 1 st floor	BLDG	CuPb<83	other***	2	BDL	000270
12/14/15	6:10am	15L0859-02		R 1 st floor	BLDG	CuPb<83	other	2	3.70	000305
12/14/15	6:00am	15L0859-03		R 1 st floor	BLDG	CuPb<83	other	2	BDL	000125
12/14/15	6:02am	15L0859-04		B 1 st floor	BLDG	CuPb<83	other	2	BDL	000248
12/14/15	6:17am	15L0859-06		R 3 rd floor	BLDG	CuPb<83	other	2	BDL	000234
12/14/15	6:18am	15L0859-07		R 3 rd floor	BLDG	CuPb<83	other	2	BDL	000259
12/14/15	6:15am	15L0859-08		R 3 rd floor	BLDG	CuPb<83	other	2	BDL	000295
12/14/15	6:26am	15L0859-09		B 3 rd floor	BLDG	CuPb<83	other	2	BDL	000144
12/14/15	6:25am	15L0859-10		B 2 nd floor	BLDG	CuPb<83	other	2	BDL	000142
** 12/28/15	9:45am	15L1393-01	✓	R 1 st floor	BLDG	CuPb<83	other	2	9.07	000427

*Tap type codes: B – bathroom cold water tap; D – drinking fountain; K – kitchen sink cold water tap; R – restroom sink cold water tap; O – other (with prior Ohio EPA acceptance)

Note: 1 mg/L = 1000 ug/L

** Initial value was elevated but had interference in analysis, sample was immediately retested as seen here.

*** Service lines are believed to be plastic.



Notes:
The aerial photo was acquired through the ESRI Imagery web service. Aerial photography dated 2015.

HAWKE



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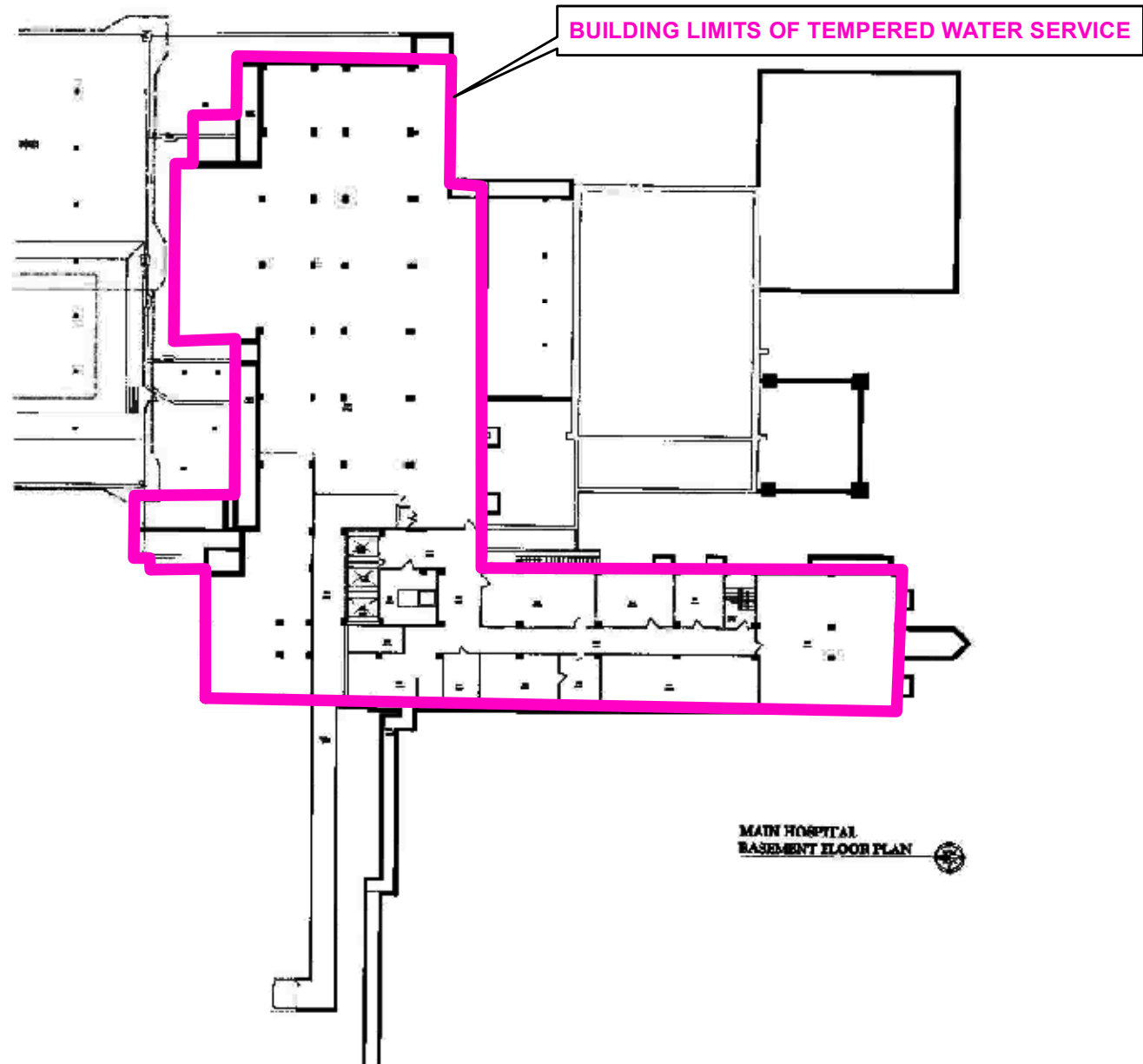
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Site Boundary
Assumed Location of Water Service - Size Unknown
Existing 12" Waterline

March 2017
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall
Water Systems Map
Columbus, Franklin County, Ohio

Figure

1



Notes:
-Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).
-No potable water on this floor.

 Building Limits of Tempered Water Service



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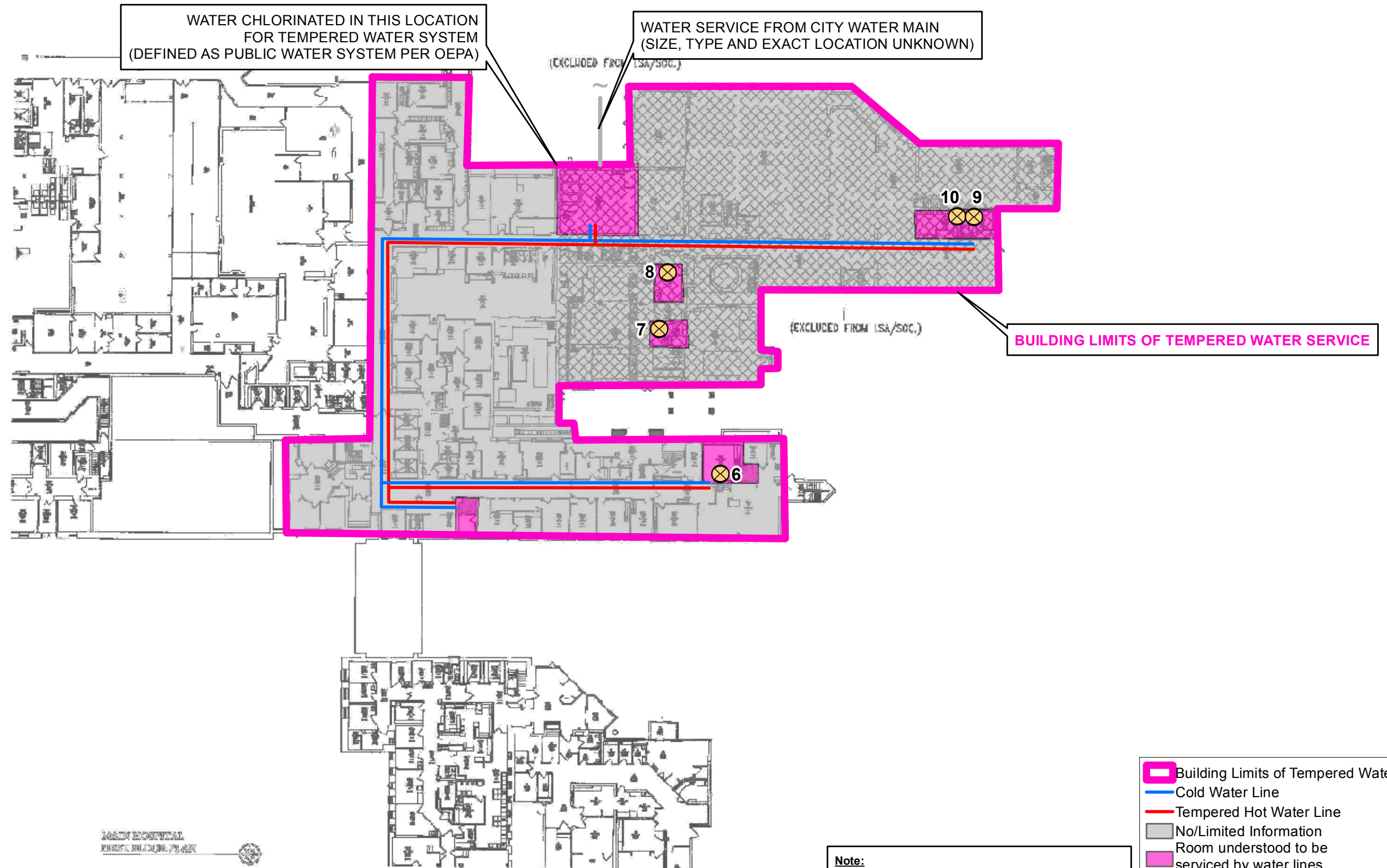
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Basement Floor

Columbus, Franklin County, Ohio

Figure

2A



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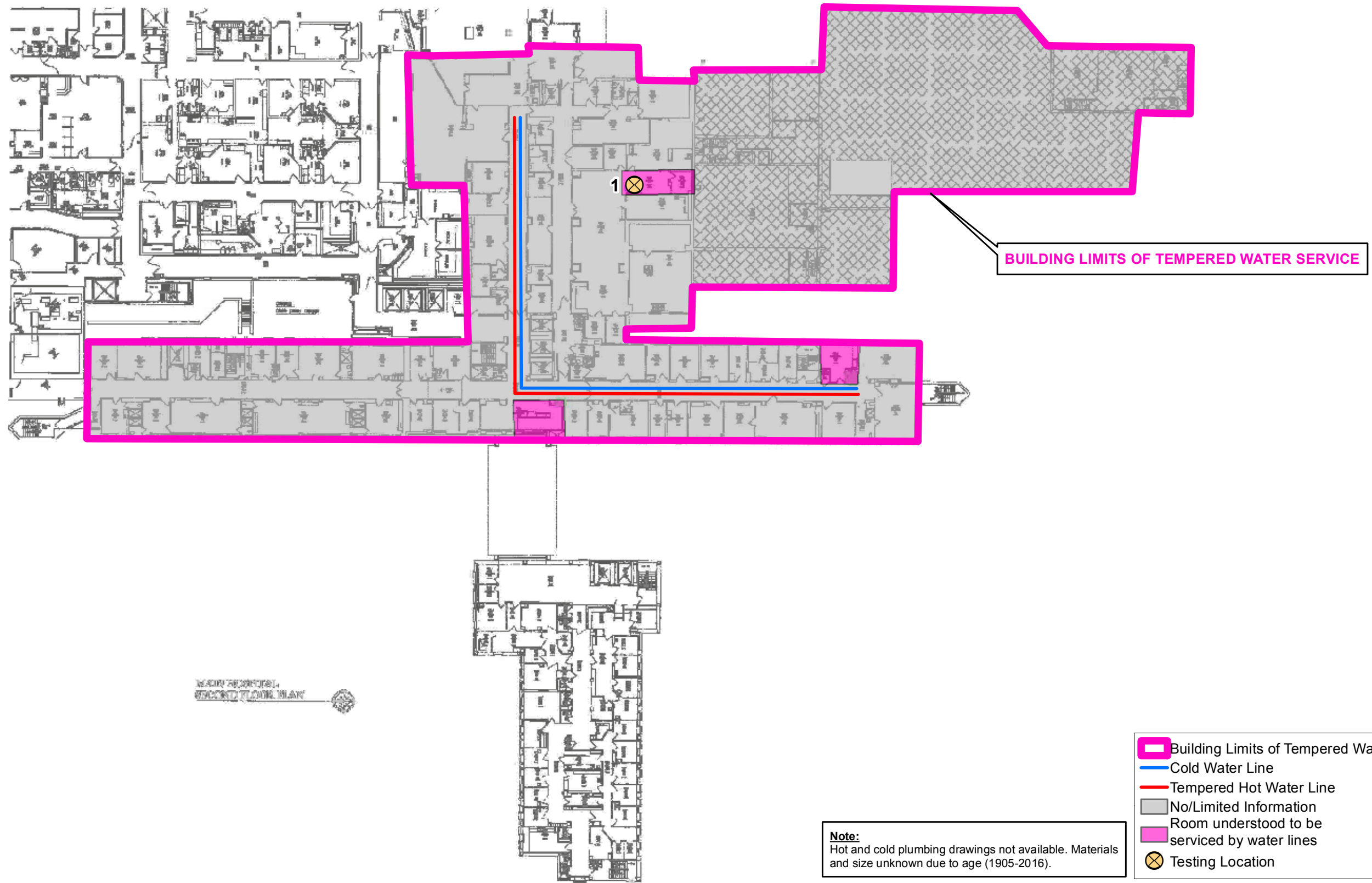
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

First Floor

Columbus, Franklin County, Ohio

Figure

2B



Note:
Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).

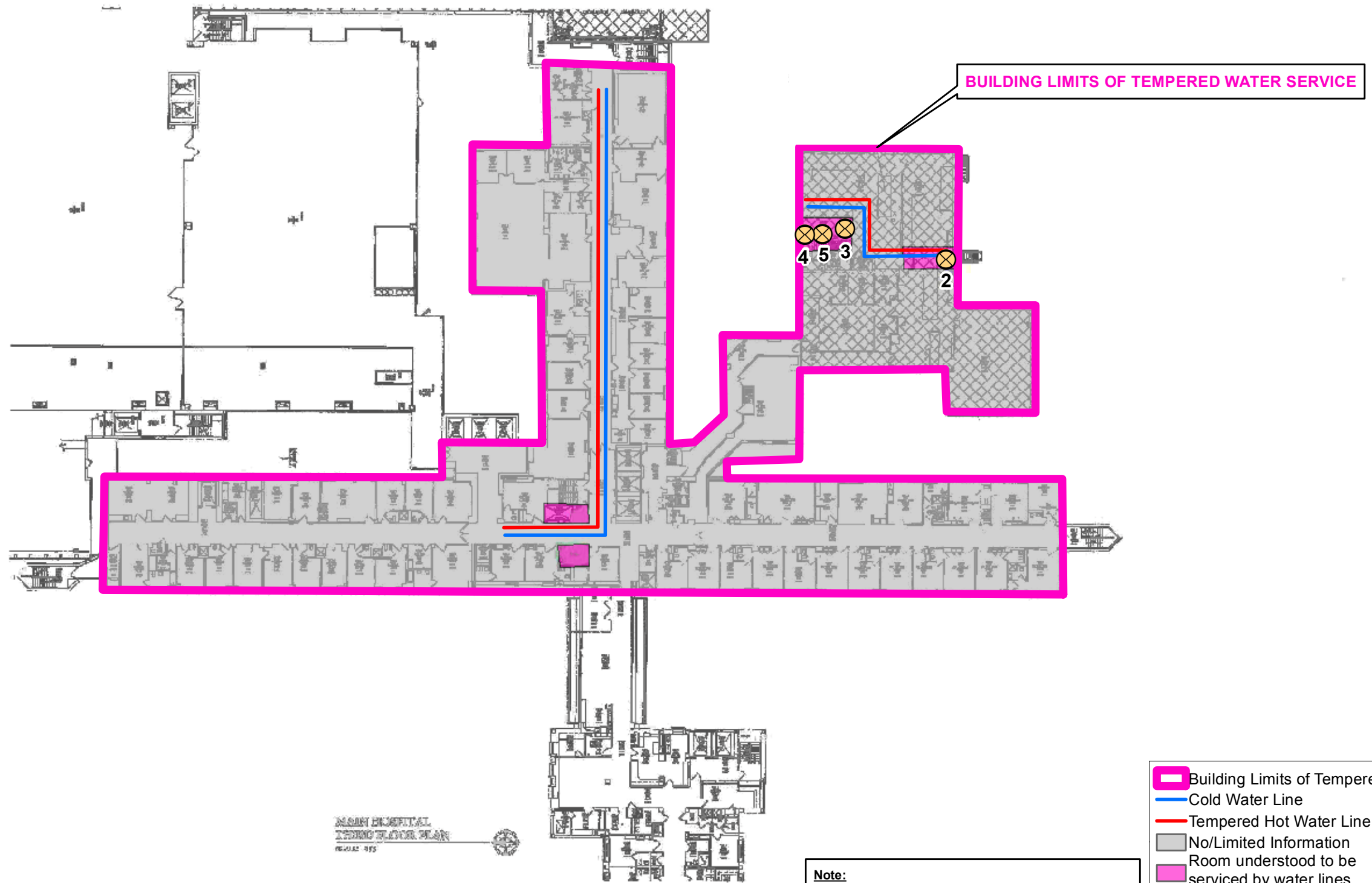
- Building Limits of Tempered Water Service
- Cold Water Line
- Tempered Hot Water Line
- No/Limited Information Room understood to be serviced by water lines
- Testing Location



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March 2017		
Water Supply Mapping Mount Carmel Health System Sister Rose Thomas Hall		Figure
Second Floor		2C
Columbus, Franklin County, Ohio		



Note:
Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).

- Building Limits of Tempered Water Service
- Cold Water Line
- Tempered Hot Water Line
- No/Limited Information
- Room understood to be serviced by water lines
- Testing Location

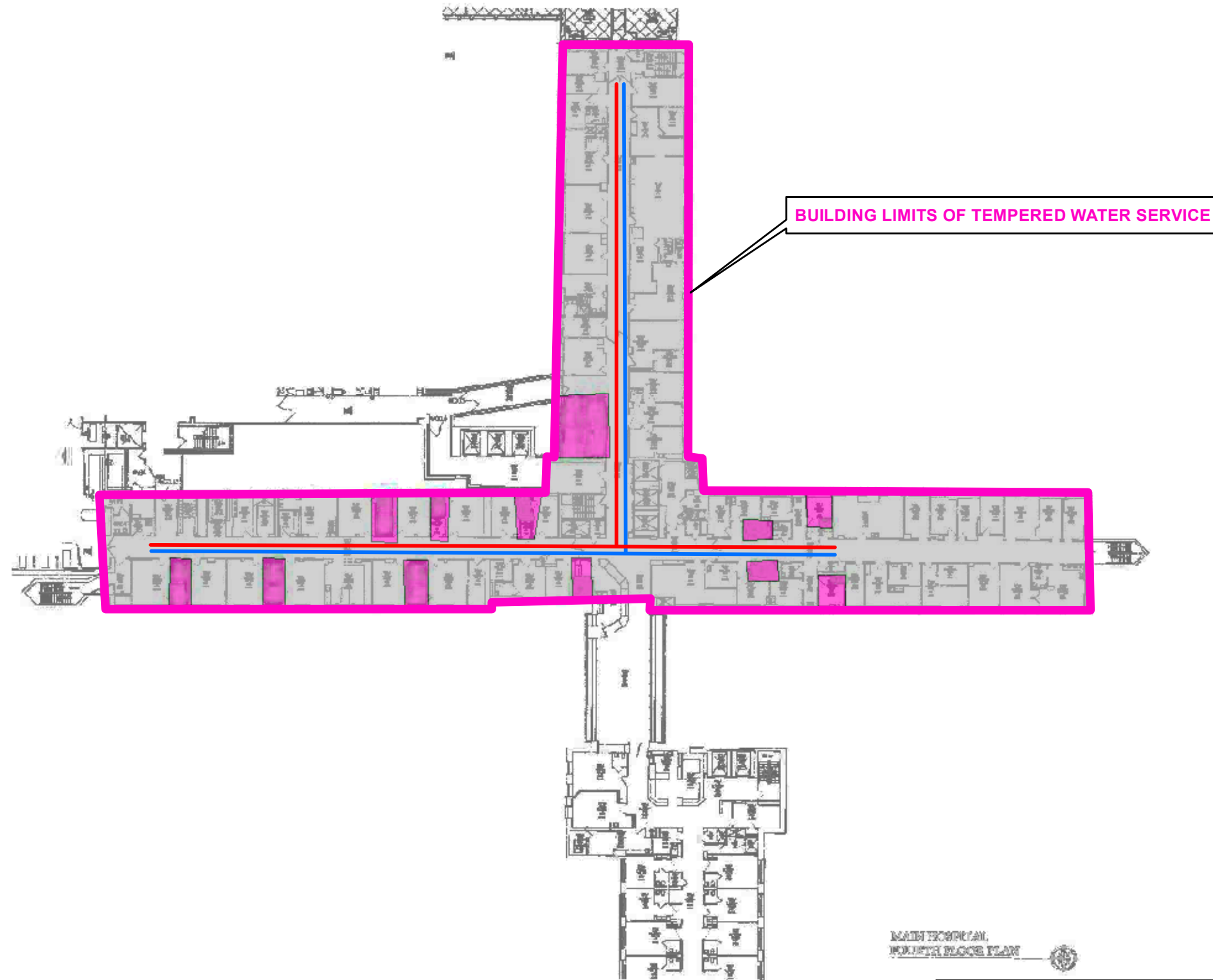


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March 2017		
Water Supply Mapping Mount Carmel Health System Sister Rose Thomas Hall		Figure
Third Floor		2D
Columbus, Franklin County, Ohio		



Note:
Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).

- Building Limits of Tempered Water Service
- Cold Water Line
- Tempered Hot Water Line
- No/Limited Information
- Room understood to be serviced by water lines



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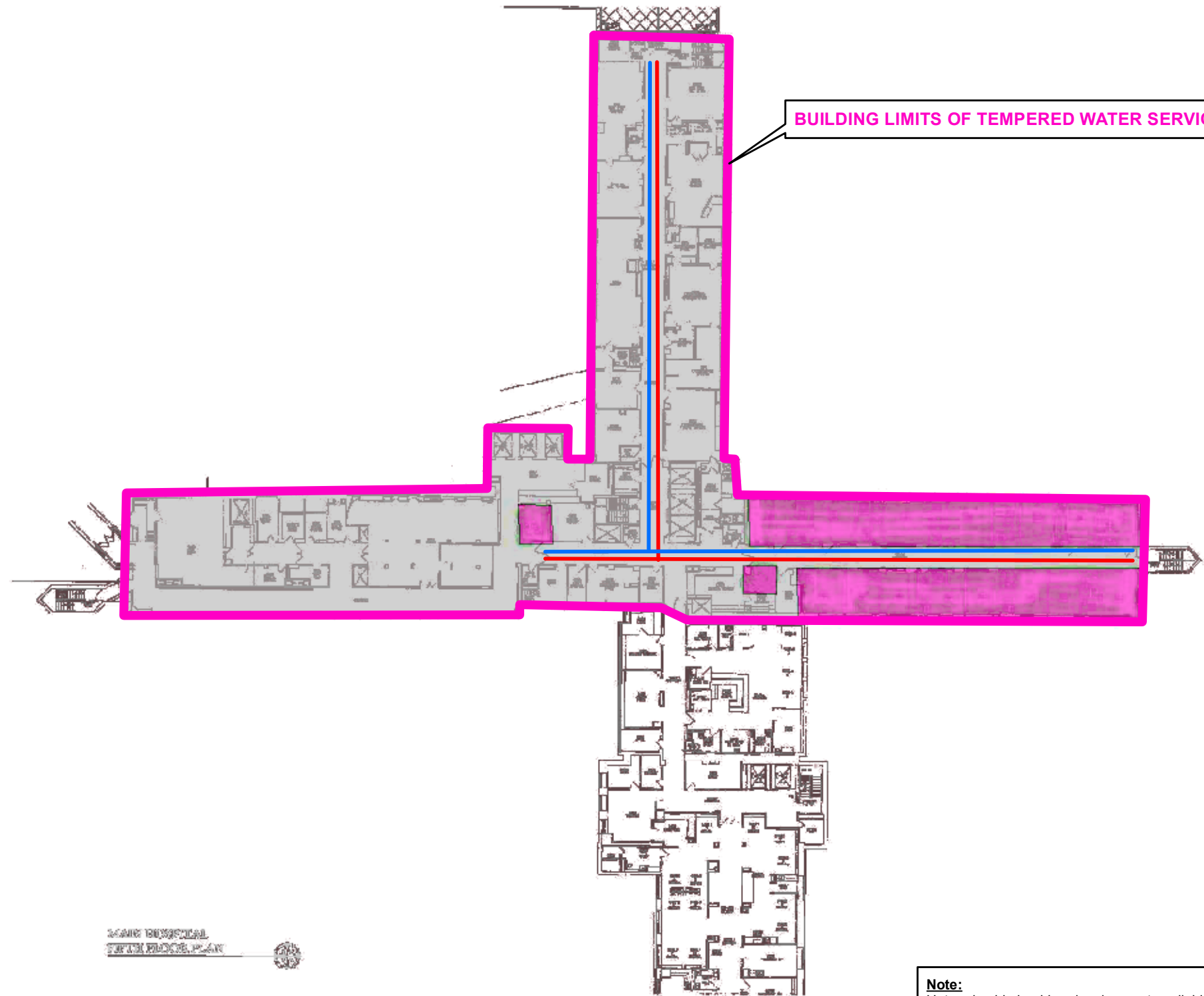
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Fourth Floor

Columbus, Franklin County, Ohio

Figure

2E



Note:
Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).

- Building Limits of Tempered Water Service
- Cold Water Line
- Tempered Hot Water Line
- No/Limited Information
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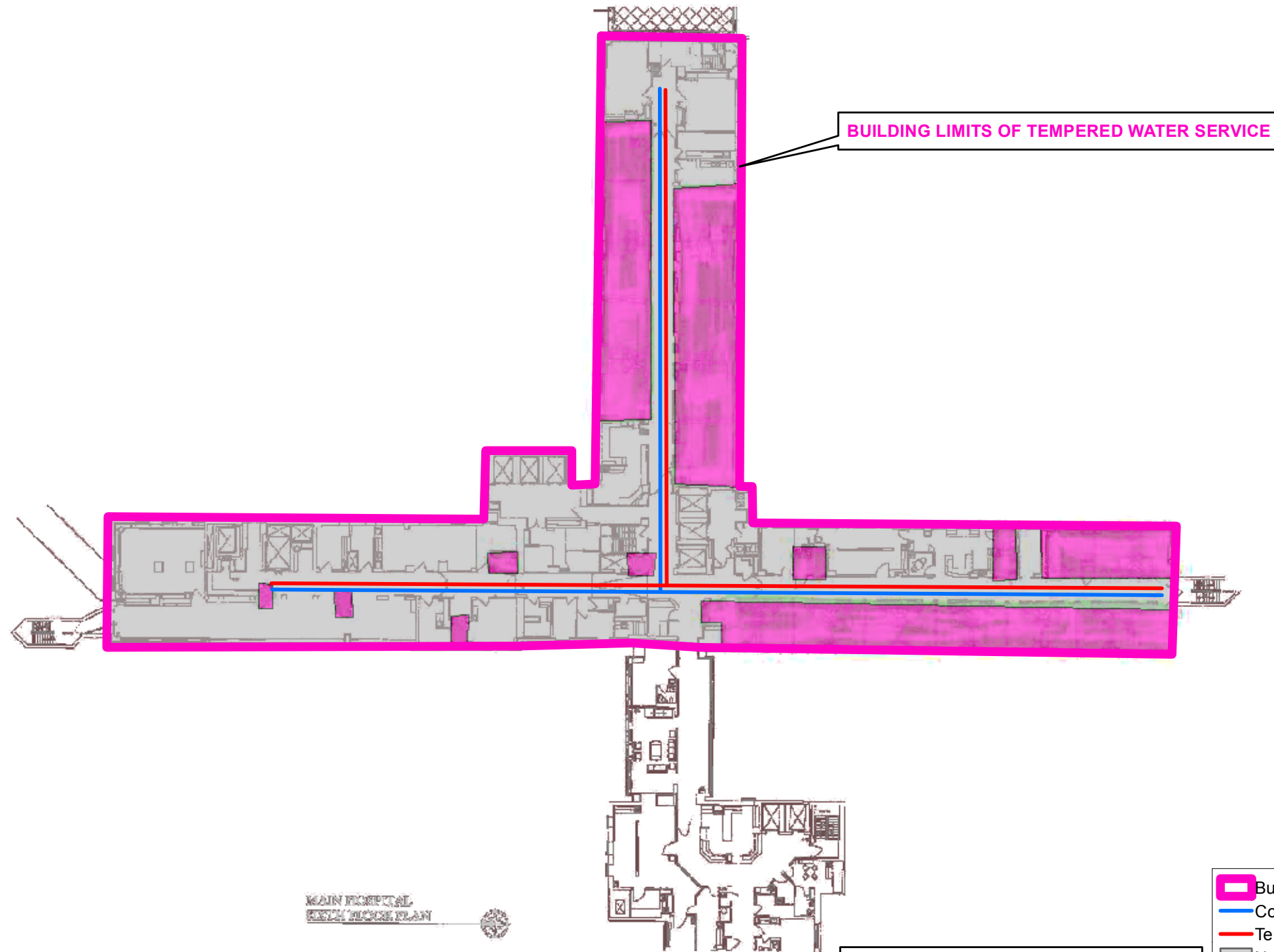
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Fifth Floor

Columbus, Franklin County, Ohio

Figure

2F



MAIN HOSPITAL
FIFTH FLOOR PLAN

Note:
Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).

- Building Limits of Tempered Water Service
- Cold Water Line
- Tempered Hot Water Line
- No/Limited Information
- Room understood to be serviced by water lines



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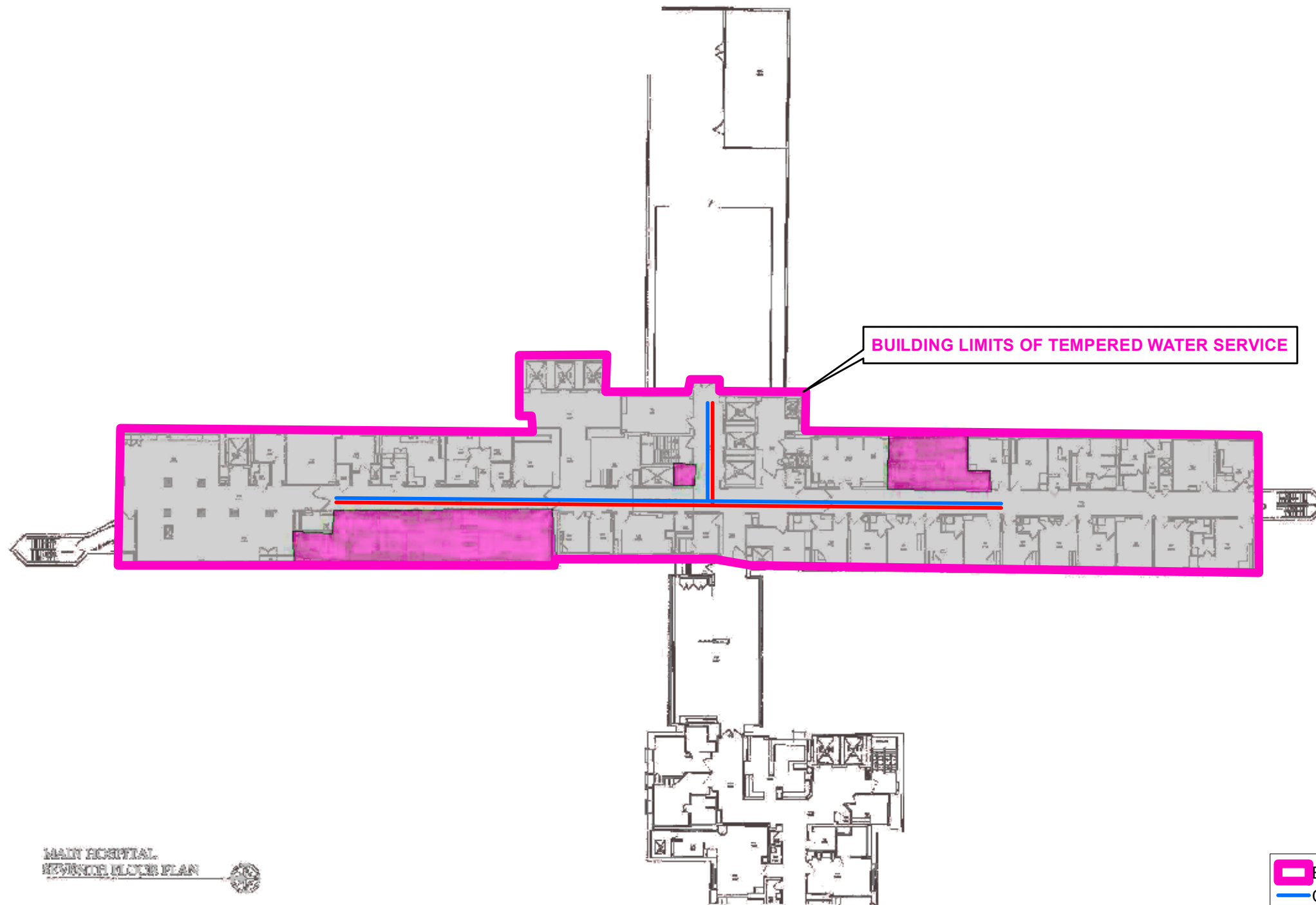
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Sixth Floor

Columbus, Franklin County, Ohio

Figure

2G



MAIN HOSPITAL
SEVENTH FLOOR PLAN



BUILDING LIMITS OF TEMPERED WATER SERVICE

Note:
Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).

- Building Limits of Tempered Water Service
- Cold Water Line
- Tempered Hot Water Line
- No/Limited Information
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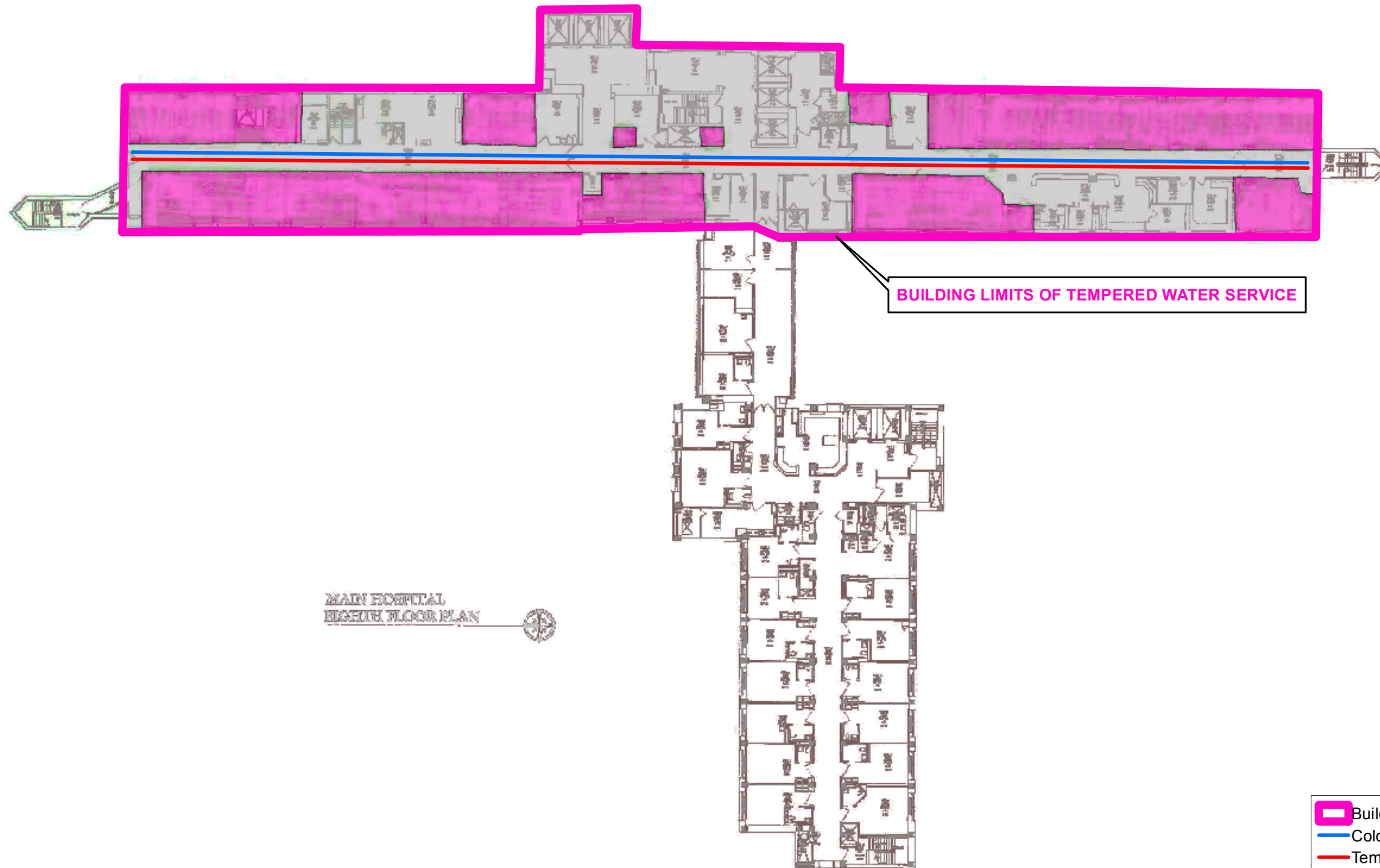
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Seventh Floor

Columbus, Franklin County, Ohio

Figure

2H



BUILDING LIMITS OF TEMPERED WATER SERVICE

MAIN HOSPITAL
EIGHTH FLOOR PLAN

Note:
Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).

- Building Limits of Tempered Water Service
- Cold Water Line
- Tempered Hot Water Line
- No/Limited Information
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March 2017

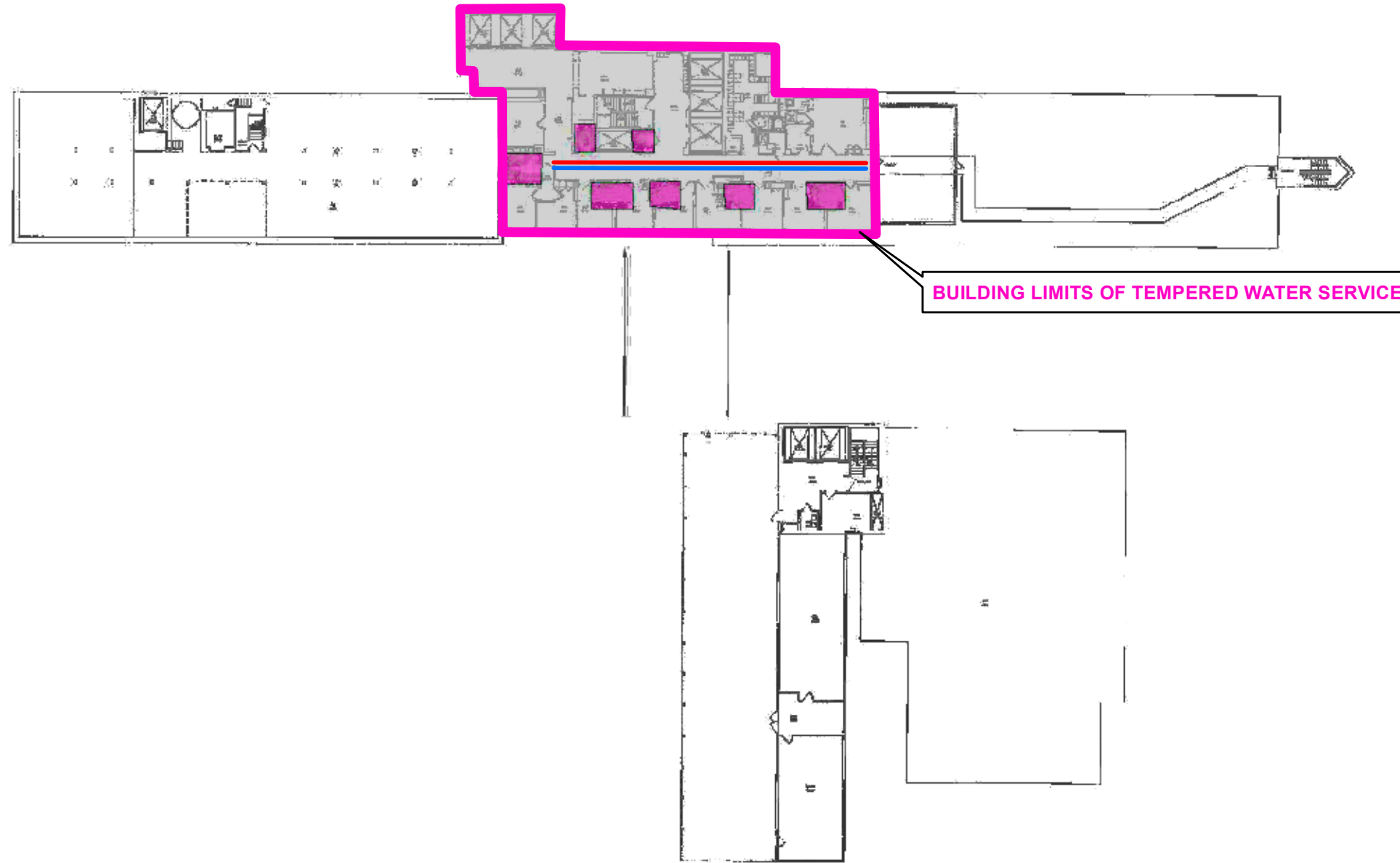
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Eighth Floor

Columbus, Franklin County, Ohio

Figure

21



MAIN HOSPITAL
NINTH FLOOR PLAN

Note:
Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).

- Building Limits of Tempered Water Service
- Cold Water Line
- Tempered Hot Water Line
- No/Limited Information
- Room understood to be serviced by water lines



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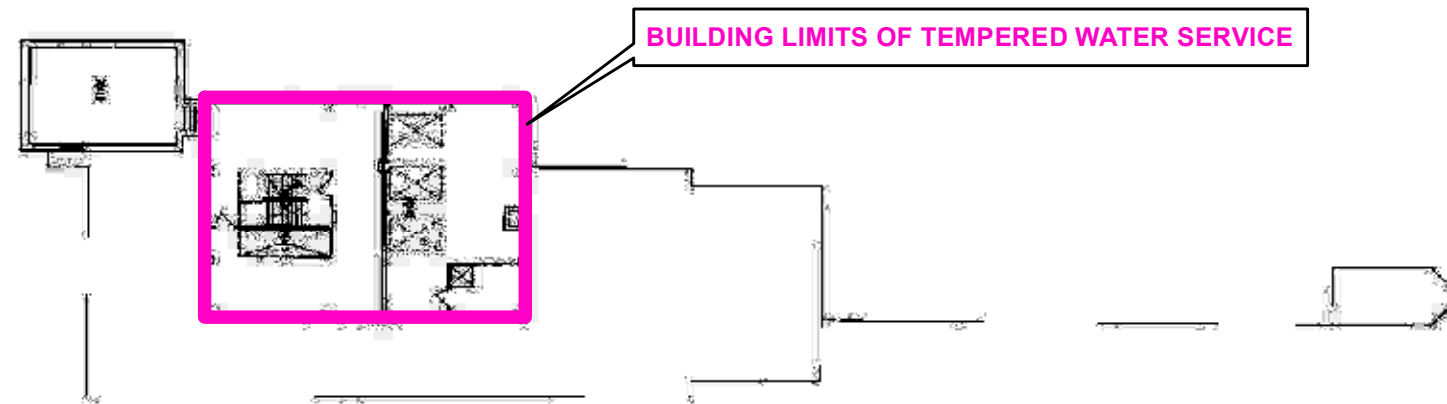
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Ninth Floor

Columbus, Franklin County, Ohio

Figure

2J



TENTH FLOOR PLAN
S.R.T.H.



TENTH FLOOR PLAN
WEST WING

Notes:

- Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).
- No potable water on this floor.

 Building Limits of Tempered Water Service



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March 2017

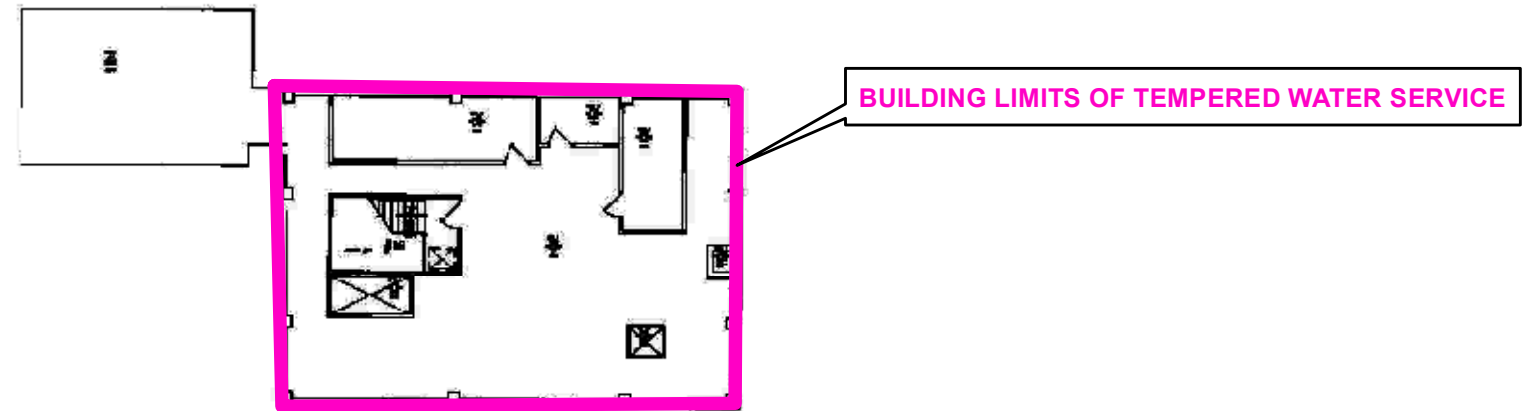
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Figure

Tenth Floor

2K

Columbus, Franklin County, Ohio




ELEVENTH FLOOR PLAN
S.R.T.H.

MAIN HOSPITAL
ELEVENTH FLOOR PLAN



Notes:
-Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).
-No potable water on this floor.

 Building Limits of Tempered Water Service



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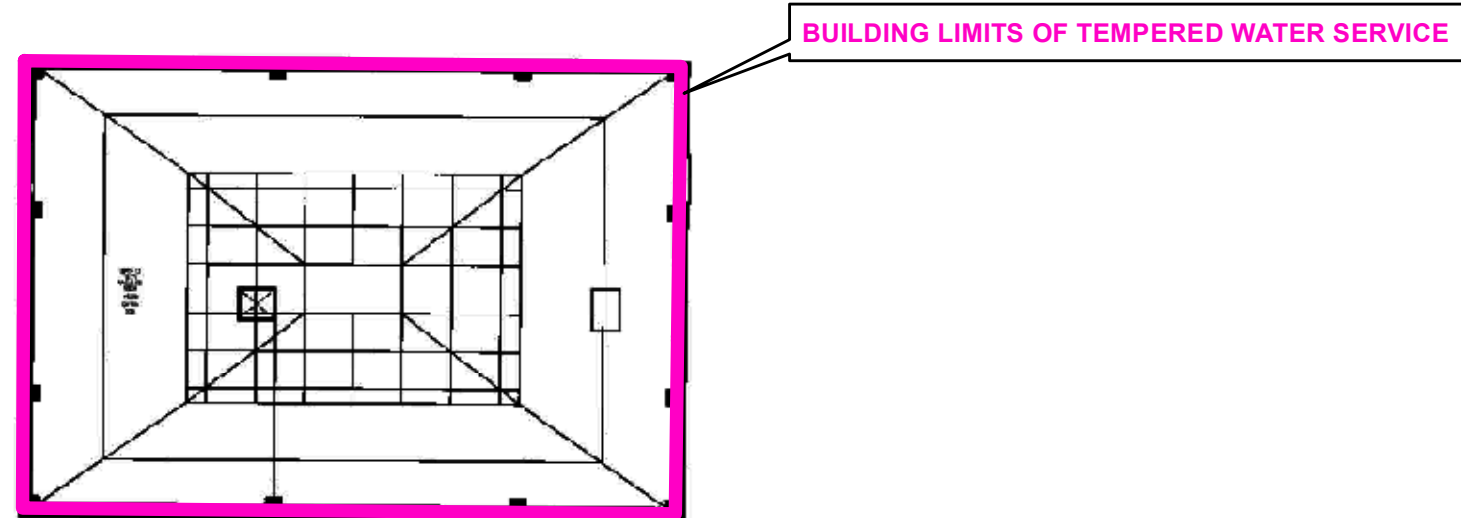
Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Eleventh Floor

Columbus, Franklin County, Ohio

Figure

2L



TWELFTH FLOOR PLAN S.R.T.H.


MAIN HOSPITAL TWELFTH FLOOR PLAN

SCALE: NTS



Notes:

- Hot and cold plumbing drawings not available. Materials and size unknown due to age (1905-2016).
- No potable water on this floor.

 Building Limits of Tempered Water Service



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March 2017

Water Supply Mapping
Mount Carmel Health System Sister Rose Thomas Hall

Figure

Twelfth Floor

2M

Columbus, Franklin County, Ohio