Capitol Tower
500 Mero Drive
Frankfort, KY 40601

For:

ASTI Environmental Health & Safety
Air Source Technology, Inc.

LIMITED ASBESTOS SURVEY AT

Capitol Tower
500 Mero Drive
Frankfort, KY 40601

For:
Maziar Torabi, PE
Division of Engineering,
Dept. for Facilities & Support Services
Bush Building, 403 Wapping Street
Frankfort, KY 40601

Air Source Technology, Inc.
160 Prosperous Place, Suite 201
Lexington, Kentucky 40509

Report Date: March 15, 2012

ASTI Project # C7530

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Introduction & Protocol

INTRODUCTION: As part of an assessment for future renovations at the Capitol Tower, located in Frankfort, KY, Air Source Technology, Inc (ASTI) conducted a limited asbestos survey for the Kentucky Division of Engineering & Contract Administration.

SURVEY PROTOCOL: The survey work was performed in accordance with applicable hazardous material regulations and standards as established by the United States Environmental Protection Agency and the Commonwealth of Kentucky. In general, ASTI followed the survey protocol outlined in ASTM International (ASTM) Document E2308-05, Standard Guide for Limited Asbestos Screens of Buildings.

Summary of Lab Results for Suspect ACBM

Suspect Asbestos Building Material Samples		
Sample ID	**Description/ Location**	**Asbestos (%)**
CT-24-1a	12" Floor Tile: White with grey/ 24th Floor Perimeter	NAD
CT-24-1a	Yellow Mastic/ 24th Floor Perimeter	NAD
CT-24-2	2'x2' Drop Ceiling Tile/ 24th Floor Lobby	NAD
CT-24-3	2'x2' Drop Ceiling Tile/ 24th Floor Lobby	NAD
CT-24-4	2'x2' Drop Ceiling Tile/ 24th Floor Lobby	NAD
CT-23-1	Plaster Ceiling/ 23rd Floor Core	NAD
CT-15-1a	12" Floor Tile: Grey/ 15th Floor Lobby	0.75% Chrysotile*
CT-15-1b	Black Mastic/ 15th Floor Lobby	NAD
CT-15-2a	12" Floor Tile: Grey/ 15th Floor Lobby	Not Analyzed
CT-15-2b	Black Mastic/ 15th Floor Lobby	NAD
CT-15-3a	12" Floor Tile: Grey/ 15th Floor Lobby	Not Analyzed
CT-15-3b	Black Mastic/ 15th Floor Lobby	NAD
CT-15-4a	Blue Mastic/ 15th Floor Perimeter	NAD
CT-15-4b	12" Floor Tile: White/ 15th Floor Perimeter	NAD
CT-15-4c	Yellow Mastic/ 15th Floor Perimeter	NAD
CT-1 (14th)	**3" Pipe Insulation/ 14th Floor Server Room**	**6% Chrysotile 12% Amosite**
CT-2a (14th)	**12" Floor Tile: White/ 14th Floor Vault**	**2% Chrysotile**
CT-2b (14th)	**Black Mastic**	**5% Chrysotile**
CT-3 (14th)	2'x2' Drop Ceiling Tile/ 14th Floor	NAD
CT-4 (14th)	Ceiling Plaster/ Central Halls & Closets/ 14th Floor	NAD
CT-5 (14th)	**3" Pipe Joint Compound/ Pipe Chase/ 14th Floor**	**8% Chrysotile 2% Amosite**
CT-6 (14th)	6" Pipe Joint Compound/ 14th Floor Maintenance Closet	NAD
CT-7a (14th)	**12" Floor Tile: White/ 14th Floor Vault**	**4% Chrysotile**
CT-7b (14th)	**Black Mastic**	**3% Chrysotile**
CT-8 (14th)	2'x2' Drop Ceiling Tile/ 14th Floor	NAD
CT-9 (14th)	Ceiling Plaster/ 14th Floor Central Halls & Closets	NAD
CT-13-1	**Fire Door Insulation/ 13th Floor**	**5% Chrysotile 15% Amosite**
CT-1-1a	12" Floor Tile: Green/ 1st Floor Perimeter	NAD
CT-1-1b	Yellow Mastic/ 1st Floor Perimeter	NAD
CT-Lobby-1a	12" Floor Tile: White/ Lobby Mr. Dyer's Office	NAD
CT-Lobby-1b	Yellow Mastic/ Lobby Mr. Dyer's Office	NAD
CT-Lobby-2	2'x2' Drop Ceiling Tile/ Lobby Mr. Dyer's Office	NAD

*Note: Results of Point Count Analysis

Suspect Asbestos Building Material Samples		
Sample ID	**Description/ Location**	**Asbestos (%)**
CT-Mez-1	2'x4' Drop Ceiling Tile/ Mezzanine Lobby	NAD
CT-Mez-2	2'x4' Drop Ceiling Tile/ Mezzanine Lobby	NAD
CT-Mez-3	2'x4' Drop Ceiling Tile/ Mezzanine Lobby	NAD
CT-Mez-4	Textured Ceiling/ Mezzanine Lobby	0.50% Chrysotile*
CT-Mez-5	Textured Ceiling/ Mezzanine Lobby	0.25% Chrysotile*
CT-Mez-6	Textured Ceiling/ Mezzanine Lobby	0.50% Chrysotile*
CT-Mez-7a	Yellow Mastic/ Mezzanine Nurse's Station	NAD
CT-Mez-7b	**12" Floor Tile: Cream/ Mezzanine Nurse's Station**	**1.0% Chrysotile***
CT-Mez-8	3'x3' Drop Ceiling Tile/ Mezzanine	NAD
CT-Mez-9	3'x3' Drop Ceiling Tile/ Mezzanine	NAD
CT-Mez-10	3'x3' Drop Ceiling Tile/ Mezzanine	NAD
CT-Mez-11a	12" Floor Tile: Tan/ Mezzanine Mail	0.75% Chrysotile*
CT-Mez-11b	**Black Mastic/ Mezzanine Mail**	**1.25% Chrysotile***
CT-Mez-12	12" Floor Tile: Tan/ Mezzanine Mail	Not Analyzed
CT-Mez-13	12" Floor Tile: Tan/ Mezzanine Mail	Not Analyzed
CT-Mez-14	2'x4' Drop Ceiling Tile/ Mezzanine Mail	NAD
CT-Mez-15	2'x4' Drop Ceiling Tile/ Mezzanine Mail	NAD
CT-Mez-16	2'x4' Drop Ceiling Tile/ Mezzanine Mail	NAD
CT-Ground-1	Boiler Flue Insulation/ Ground Floor Boiler Room	NAD
CT-Ground-2	Boiler Flue Insulation/ Ground Floor Boiler Room	NAD
CT-Ground-3	Boiler Flue Insulation/ Ground Floor Boiler Room	NAD
CT-Ground-4	2'x2' Drop Ceiling Tile (cloth face)/ Ground Floor Hallway	NAD
CT-Ground-5	2'x2' Drop Ceiling Tile (cloth face)/ Ground Floor Hallway	NAD
CT-Ground-6	2'x2' Drop Ceiling Tile (cloth face)/ Ground Floor Hallway	NAD

*Note: Results of Point Count Analysis

Asbestos containing materials were identified as the 12" floor tile (and associated black mastic), fire door insulation, pipe insulation, and pipe joint compound. Boiler insulation and gaskets are assumed to be positive. See Appendix A for photographs of sample locations. See Appendix B for laboratory analyses.

Quantities of pipe insulation/joint compound can only be estimated at this time due to occupancy/usage of the areas. A destructive survey would be required to quantify ACBM in pipe chases and to determine if asbestos containing materials are found within the partition walls.

ACBM Material	Estimated Quantity	Estimated Removal Cost
Floor tile and black mastic	970 ft^2	$9,000
Pipe Insulation	1500 linear feet	$15,000
Pipe Joint Compound	2000	$60,000
Fire Door	70	$3,500

APPLICABLE REFERENCES

1. U. S. Environmental Protection Agency (EPA):

   A. Title 40, Code of Federal Regulations, Part 763, Subpart E, Asbestos Containing Materials in Schools.

   B. Title 40, Code of Federal Regulations, Part 61, Subpart A, Regulation for Asbestos.

   C. Title 40, Code of Federal Regulations, Part 61, Subpart M (Revised Subpart B), National Emissions Standards for Hazardous Air Pollutants.

2. Commonwealth of Kentucky:

   A. Kentucky Natural Resources and Environmental Protection Cabinet, Division for Air Quality 401 KAR 58:005 (accreditation of asbestos professionals), 401 KAR 58:025 (asbestos NESHAPS standards), 401 KAR 58:010 (AHERA requirements for schools), and 401 KAR 58:040 (certification and work-practice requirements for abatement entities).

   B. Kentucky Division of Occupational Safety & Health Revisions to Adopted 29 CFR Part 1926.1101, Asbestos, Tremolite, Anthophyllite, and Actinolite. Also revisions to Amended 29 CFR Part 1910.1001, Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite.

   C. Kentucky Natural Resources and Environmental Protection, Division of Waste Management, Recommended Procedures for Treatment and Disposal of Asbestos Waste.

3. American Society for Testing and Materials (ASTM):

   A. ASTM International, Designation E2308-5, Standard Guide for Limited Asbestos Screens of Buildings.

Appendix A

Photographs

Photograph #1: Sample CT-24-1: 12" Floor Tile (white).

Photograph #2: Samples CT—24-2, CT-24-3 & CT-24-4: 2'x2' Drop Ceiling Tile

Photograph #3: Sample CT-23-1: Plaster Ceiling

Photograph #4: Sample CT-15-1, CT-15-2 & CT-15-3: 12" Floor Tile (grey).

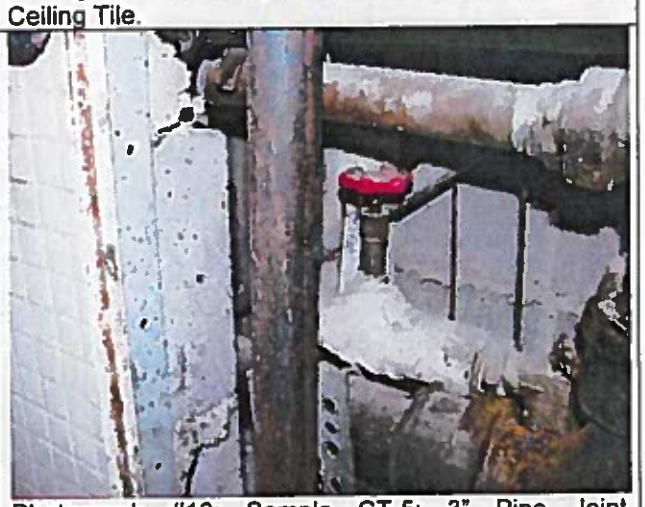
Photograph #5: Sample CT-15-4" 12" Floor Tile (white).

Photograph #6: Sample CT-1: 3" Pipe Insulation.

Photograph #7: Sample CT-2 & CT-7: 12" white floor tile with black mastic.

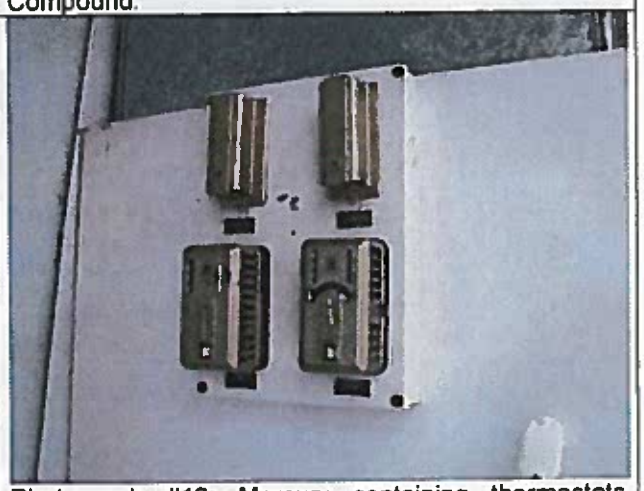
Photograph #8: Sample CT-3 & CT-8: 2'x2' Drop Ceiling Tile.

Photograph #9: Sample CT-4 & CT-9: Plaster Ceilings.

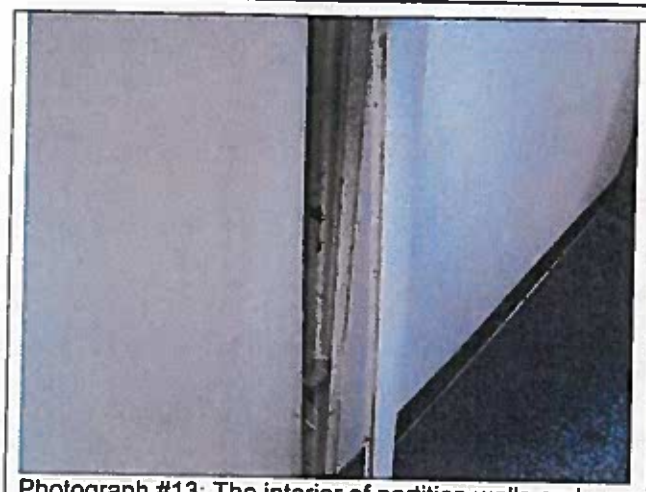


Photograph #10: Sample CT-5: 3" Pipe Joint Compound.

Photograph #11: Sample CT-6: 6" Pipe Joint Compound.

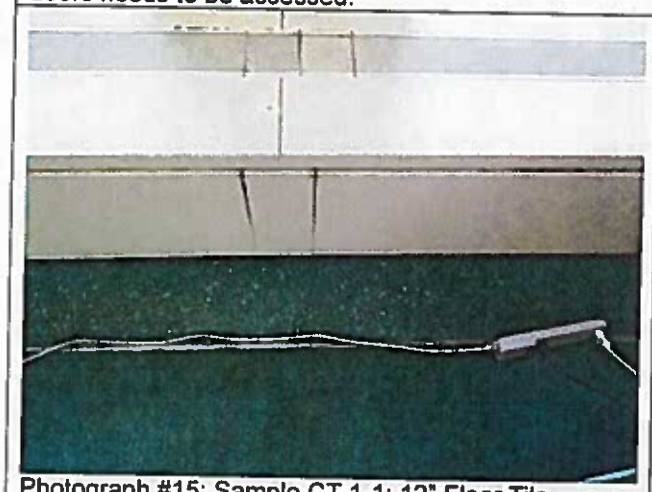


Photograph #12: Mercury containing thermostats located in the server rooms.



Photograph #13: The interior of partition walls and doors needs to be accessed.

Photograph #14: Sample CT-13b-1: Fire Door Insulation.



Photograph #15: Sample CT-1-1: 12" Floor Tile (green).

Photograph #16: Sample CT-Lobby-1: 12" Floor Tile (white).

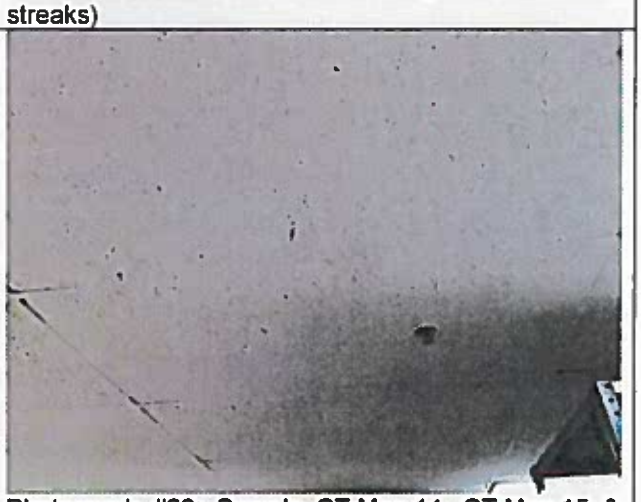
Photograph #17: Sample CT-Lobby-2: 2'x2' Drop Ceiling Tile.

Photograph #18: Sample CT-Mez-1, CT-Mez-2 & CT-Mez-3: 2'x4' Drop Ceiling Tile.

Photograph #19: Sample CT-Mez-4, CT-Mez-5 & CT-Mez-6: Textured Ceiling

Photograph #20: Sample CT-Mez-7, CT-Mez-11, CT-Mez-12 & CT-Mez-13: 12" Floor Tile (white with brown streaks)

Photograph #21: Sample CT-Mez-8, CT-Mez-9 & CT-Mez-10: '3'x3' Drop Ceiling Tile.



Photograph #22: Sample CT-Mez-14, CT-Mez-15 & CT-Mez-16: 2'x4' Drop Ceiling Tile.

Photograph #23: Sample CT-Ground-1, CT-Ground-2 & CT-Ground-3: Boiler Flue Compound

Photograph #24: Sample CT-Ground-4, CT-Ground-5 & CT-Ground-6: 2'x2' Drop Ceiling Tile.

Appendix B
Laboratory Reports

EHS Laboratories

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 12-03-00631

Client: Air Source Technology Inc.
160 Prosperous Pl. Ste. 201
Lexington, KY 40509

Received Date: 03/06/2012
Analyzed Date: 03/08/2012
Reported Date: 03/08/2012

Project/Test Address: C7530; Commonwealth of KY (Capital Tower); Frankfort, KY PO 105937

Client Number: 18-4340

Fax Number: 859-299-0494

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
12-03-00631-001	CT-13b-1		White Fibrous	5% Chrysotile 15% Amosite	80% Non-Fibrous
			Total Asbestos:	20%	
12-03-00631-002A	CT-24-1	Tile	White Vinyl	NAD	100% Non-Fibrous
12-03-00631-002B	CT-24-1	Mastic	Yellow Adhesive	NAD	2% Synthetic 98% Non-Fibrous
12-03-00631-003	CT-24-2		White Fibrous; Silver Foil-Like	NAD	1% Cellulose 85% Fibrous Glass 14% Non-Fibrous
12-03-00631-004	CT-24-3		White Fibrous	NAD	85% Fibrous Glass 15% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 18-4340
Project/Test Address: C7530; Commonwealth of KY (Capital Tower); Frankfort, KY PO 105937

Report Number: 12-03-00631

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
12-03-00631-005	CT-24-4		White Fibrous; Silver Foil-Like	NAD	1% Cellulose 85% Fibrous Glass 14% Non-Fibrous
12-03-00631-006	CT-23-1		White/Gray Granular	NAD	100% Non-Fibrous
12-03-00631-007A	CT-15-1	Tile	Gray Vinyl	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
12-03-00631-007B	CT-15-1	Mastic	Black Adhesive	NAD	2% Cellulose 98% Non-Fibrous
12-03-00631-008A	CT-15-2	Tile		Did Not Analyze (Positive Stop)	
12-03-00631-008B	CT-15-2	Mastic	Black Adhesive	NAD	100% Non-Fibrous
12-03-00631-009A	CT-15-3	Tile		Did Not Analyze (Positive Stop)	
12-03-00631-009B	CT-15-3	Mastic	Black Adhesive	NAD	2% Cellulose 98% Non-Fibrous
12-03-00631-010A	CT-15-4	Mastic	Blue Adhesive	NAD	1% Cellulose 99% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 18-4340
Project/Test Address: C7530; Commonwealth of KY (Capital Tower); Frankfort, KY PO 105937

Report Number: 12-03-00631

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
12-03-00631-010B	CT-15-4	Tile	White Vinyl	NAD	100% Non-Fibrous
12-03-00631-010C	CT-15-4	Mastic	Yellow Adhesive	NAD	2% Cellulose 98% Non-Fibrous
12-03-00631-011A	CT-1-1	Tile	Green Vinyl	NAD	100% Non-Fibrous
12-03-00631-011B	CT-1-1	Mastic	Yellow Adhesive	NAD	2% Synthetic 98% Non-Fibrous
12-03-00631-012A	CT-Lobby-1	Tile	White Vinyl	NAD	100% Non-Fibrous
12-03-00631-012B	CT-Lobby-1	Mastic	Yellow Adhesive	NAD	2% Cellulose 98% Non-Fibrous
12-03-00631-013	CT-Lobby-2		Gray/White Fibrous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous
12-03-00631-014	CT-Mez-1		Gray/White Fibrous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 18-4340
Project/Test Address: C7530; Commonwealth of KY (Capital Tower); Frankfort, KY PO 105937

Report Number: 12-03-00631

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
12-03-00631-015	CT-Mez-2		Gray/White Fibrous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous
12-03-00631-016	CT-Mez-3		Gray/White Fibrous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous
12-03-00631-017	CT-Mez-4		White Textured Fibrous	Trace <1% Chrysotile	75% Cellulose 25% Non-Fibrous
			Total Asbestos:	Trace <1%	
12-03-00631-018	CT-Mez-5		White Textured Fibrous	Trace <1% Chrysotile	65% Cellulose 35% Non-Fibrous
			Total Asbestos:	Trace <1%	
12-03-00631-019	CT-Mez-6		White Textured Fibrous	Trace <1% Chrysotile	70% Cellulose 30% Non-Fibrous
			Total Asbestos:	Trace <1%	
12-03-00631-020A	CT-Mez-7	Top Mastic	Yellow Adhesive	NAD	3% Cellulose 97% Non-Fibrous
12-03-00631-020B	CT-Mez-7	Tile	Tan Vinyl	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
12-03-00631-021	CT-Mez-8		Gray Fibrous	NAD	75% Fibrous Glass 25% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 18-4340 Report Number: 12-03-00631

Project/Test Address: C7530; Commonwealth of KY (Capital Tower); Frankfort, KY PO 105937

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
12-03-00631-022	CT-Mez-9		Gray Fibrous	NAD	75% Fibrous Glass 25% Non-Fibrous
12-03-00631-023	CT-Mez-10		Gray Fibrous	NAD	75% Fibrous Glass 25% Non-Fibrous
12-03-00631-024A	CT-Mez-11	Tile	White Vinyl	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
12-03-00631-024B	CT-Mez-11	Mastic	Black Adhesive	2% Chrysotile	3% Cellulose 95% Non-Fibrous
			Total Asbestos:	2%	
12-03-00631-025A	CT-Mez-12	Tile		Did Not Analyze (Positive Stop)	
12-03-00631-025B	CT-Mez-12	Mastic		Did Not Analyze (Positive Stop)	
12-03-00631-026A	Ct-Mez-13	Tile		Did Not Analyze (Positive Stop)	
12-03-00631-026B	CT-Mez-13	Mastic		Did Not Analyze (Positive Stop)	
12-03-00631-027	CT-Mez-14		Beige Fibrous	NAD	85% Fibrous Glass 15% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 18-4340
Report Number: 12-03-00631
Project/Test Address: C7530; Commonwealth of KY (Capital Tower); Frankfort, KY PO 105937

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
12-03-00631-028	CT-Mez-15		Beige Fibrous	NAD	85% Fibrous Glass 15% Non-Fibrous
12-03-00631-029	CT-Mez-16		Beige Fibrous	NAD	85% Fibrous Glass 15% Non-Fibrous
12-03-00631-030	CT-Ground-1		Gray Fibrous	NAD	35% Fibrous Glass 65% Non-Fibrous
12-03-00631-031	CT-Ground-2		Gray Fibrous	NAD	35% Fibrous Glass 65% Non-Fibrous
12-03-00631-032	CT-Ground-3		Gray Fibrous	NAD	35% Fibrous Glass 65% Non-Fibrous
12-03-00631-033	CT-Ground-4		White Fibrous; White Vinyl-Like	NAD	90% Fibrous Glass 10% Non-Fibrous
12-03-00631-034	CT-Ground-5		White Fibrous; White Vinyl-Like	NAD	90% Fibrous Glass 10% Non-Fibrous
12-03-00631-035	CT-Ground-6		White Fibrous; White Vinyl-Like	NAD	90% Fibrous Glass 10% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 18-4340 Report Number: 12-03-00631

Project/Test Address: C7530; Commonwealth of KY (Capital Tower); Frankfort, KY PO 105937

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 60-NY-35-3829

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116

Analyst: Kathy Sizemore

Reviewed By Authorized Signatory: Irma Faszewski

Irma Faszewski
QA/QC Manager

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

35-PLM

EHS Laboratories

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

Asbestos Chain-of-Custody

12-03-00631

Due Date:
03/09/2012
(Friday)
AE
IAS

Company Name: Air Source Technology Inc.
Address: 160 Prosperous Pl. Ste. 201,
City/State/Zip: Lexington, KY 40509
Phone: (859)299-0046
Fax: 859-299-0494 E
E-mail: support@airsourcetechnology.com
Acct Number: 18-4340
Project Name/Testing Address: C7530; Commonwealth of Ky (Capitol Tower)
City/State(required): Frankfort, KY
Collected by: CKA
Certification Number:
Purchase Order Number: 105937

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	CT-13b-1	2/29/12	X												Exe Door Insulation
2	CT-24-1														12" Floor Tile (White)
3	CT-24-2														2x2 Drop Ceiling Tile
4	CT-24-3														" "
5	CT-24-4														" "
6	CT-23-1														Plaster Ceiling
7	CT-15-1														12" Floor Tile (Gray) with Black Mastic
8	CT-15-2														" "
9	CT-15-3														" "
10	CT-15-4														12" Floor tile (White)

Sample till positive

Sample till positive

Released by: Chris Adkins
Signature: Chris Adkins
Date/Time: 3/1/12

Received by: K TYLER
Signature: K Tyler
Date/Time: 3/1/12

EHS Laboratories

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Air Source Technology Inc.
Address: 160 Prosperous Pl. Ste. 201,
City/State/Zip: Lexington, KY 40509
Phone: (859)299-0046
Fax: 859-299-0494 E
E-mail: support@airsourcetechnology.com
Acct. Number: 18-4340
Project Name/Testing Address: C7530; Commonwealth of KY (Capitol Tower)
City/State(required) Frankfort, KY
Collected by: CLA
Certification Number:
Purchase Order Number: 105937

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	CT-1-1	2/26/12	X												12" Floor Tile (Green)
2	CT-Lobby-1														12" Floor Tile (White)
3	CT-Lobby-2														2x2 Drop Ceiling Tile
4	CT-Mez-1														2x4 Drop Ceiling Tile
5	CT-Mez-2														" "
6	CT-Mez-3														" "
7	CT-Mez-4														Popcorn Ceiling
8	CT-Mez-5														" "
9	CT-Mez-6														" "
10	CT-Mez-7														12" Floor Tile (Green)

Sample #1 positive

Sample 1:1 positive

Released by: Chris Collins
Signature: Chris Collins
Date/Time: 3/1/12

Received by: KYLEA
Signature:
Date/Time: 3/6/12

EHS Laboratories

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Air Source Technology Inc.
Address: 160 Prosperous Pl. Ste. 201,
City/State/Zip: Lexington, KY 40509
Phone: (859)299-0046
Fax: 859-299-0494 E
E-mail: support@airsourcetechnology.com
Acct. Number: 18-4340
Project Name/Testing Address: C7530; Commonwealth of Ky (Capitol Tower)
City/State(required): Frankfort, KY
Collected by: CLA
Certification Number:
Purchase Order Number: 105537

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	CT-Mez-8	2/26/12	X												
2	CT-Mez-9														3x3 Drop Ceiling Tile
3	CT-Mez-10														" "
4	CT-Mez-11														" "
5	CT-Mez-12														12" Floor Tile (white+brown) w/black
6	CT-Mez-13														" "
7	CT-Mez-14														" "
8	CT-Mez-15														2x4 Drop Ceiling Tile
9	CT-Mez-16														" "
10	~~CT-~~														" "

Sample till positive

Sample till positive

Sample till positive

Released by: Chris Adkins
Signature: Chris Adkins
Received by: K Tyler
Signature: K Tyler
Date/Time: 3/1/12 3/6/12

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Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Air Source Technology Inc. Address: 160 Prosperous Pl. Ste. 201, City/State/Zip: Lexington, KY 40509

Phone: (859)299-0046 Fax: 859-299-0494 E E-mail: support@airsourcetechnology.com Acct. Number: 18-4340

Project Name/Testing Address: C7530, Commonwealth of Ky (Capitol Tower) City/State(required) Frankfort, KY

Collected by: CLA Certification Number: Purchase Order Number: 105937

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	CT-Ground-1	2/29/12	X												Boiler Flue
2	CT-Ground-2	↓	↓												"
3	CT-Ground-3														"
4	CT-Ground-4														2×2 Drop Ceiling (Cloth)
5	CT-Ground-5														" "
6	CT-Ground-6	↓	↓												" "
7	CT-														
8	CT-														
9	CT-														
10	CT-														

sample 1'd positive

sample still positive

Released by: Chris Adkins Signature: Chris Adkins

Received by: K. Tylen Signature: Date/Time: 3/1/12

EHS Laboratories

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237

Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 12-02-01410

Client: Air Source Technology Inc.
160 Prosperous Pl. Ste. 201
Lexington, KY 40509

Received Date: 02/10/2012
Analyzed Date: 02/10/2012
Reported Date: 02/10/2012

Project/Test Address: C7530, Comm of KY: Capital Tower; Frankfort, KY

Client Number: 18-4340

Fax Number: 859-299-0494

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
12-02-01410-001	CT-1		White Powdery; Fibrous	8% Chrysotile 12% Amosite	5% Fibrous Glass 75% Non-Fibrous
			Total Asbestos:	20%	
12-02-01410-002A	CT-2	Tile	White/Gray Vinyl	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
12-02-01410-002B	CT-2	Mastic	Black Adhesive	5% Chrysotile	95% Non-Fibrous
			Total Asbestos:	5%	
12-02-01410-003	CT-3		Off-White Fibrous; Silver Foil	NAD	5% Cellulose 75% Fibrous Glass 20% Non-Fibrous
12-02-01410-004	CT-4		Gray/White Cementitious	NAD	100% Non-Fibrous
12-02-01410-005	CT-5		White Powdery; Fibrous	8% Chrysotile 2% Amosite	15% Fibrous Glass 75% Non-Fibrous
			Total Asbestos:	10%	

Environmental Hazards Services, L.L.C

Client Number: 18-4340 Report Number: 12-02-01410

Project/Test Address: C7530, Comm of KY: Capital Tower; Frankfort, KY

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
12-02-01410-006	CT-6		Light Gray Powdery; Fibrous	NAD	5% Cellulose 25% Fibrous Glass 70% Non-Fibrous
12-02-01410-007A	CT-7	Tile	White/Gray Vinyl	4% Chrysotile	96% Non-Fibrous
			Total Asbestos:	4%	
12-02-01410-007B	CT-7	Mastic	Black Adhesive	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
12-02-01410-008	CT-8		White/Tan Fibrous; Silver Foil	NAD	15% Cellulose 65% Fibrous Glass 20% Non-Fibrous
12-02-01410-009	CT-9		Light Gray Cementitious; Granular	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 18-4340 Report Number: 12-02-01410

Project/Test Address: C7530, Comm of KY: Capital Tower; Frankfort, KY

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 7-M1-1991-3

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116

Analyst: Katherine Charles Harris

Reviewed By Authorized Signatory: Tasha Eaddy

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

EHS Laboratories™

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Richmond, VA
23237

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Air Source Technology Inc.
Address: 160 Prosperous Pl. Ste. 201,
City/State/Zip: Lexington, KY 40509
Phone: (859)299-0046
Fax: 859-299-0494 E
E-mail: support@airsourcetechnology.com
Acct Number: 18-4340
Project Name/Testing Address: C7530; Commonwealth of Ky (Capitol Tower)
City/State(required) Frankfort, KY
Collected by: CKA
Certification Number:
Purchase Order Number: 105937

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Omnifield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	CT-Ground-1	2/29/12	X												
2	CT-Ground-2														Boiler Flue
3	CT-Ground-3														"
4	CT-Ground-4														"
5	CT-Ground-5														2x2 Acp Ceiling (Cloth)
6	CT-Ground-6														" "
7	CT-														" "
8	CT-														
9	CT-														
10	CT-														

sample 1-4 positive

sample 5-7 positive

Released by: Chris Adkins
Signature: Chris Adkins
Received by: K TYLER
Signature: K Tyler
Date/Time: 3/1/12 3/1/12

EHS Laboratories

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos 400 Point Count Analysis Report

Report Number: 12-03-01453

Client: Air Source Technology Inc.
160 Prosperous Pl. Ste. 201
Lexington, KY 40509

Received Date: 03/01/2012
Analyzed Date: 03/13/2012
Reported Date: 03/13/2012

Project/Test Address: C7530; Commonwealth of KY (Capital Tower); Frankfort, KY PO 105937; EHS# 12-03-00631

Client Number: 18-4340

Fax Number: 859-299-0494

Laboratory Results

Lab Sample Number	Client Sample Number	Lab Gross Description	% Asbestos	Narrative ID
12-03-01453-001	CT-15-1 Tile	Gray Vinyl	0.75 % Chrysotile	
12-03-01453-002	CT-MEZ-4	White Textured, Fibrous	0.50 % Chrysotile	
12-03-01453-003	CT-MEZ-5	White Textured, Fibrous	0.25 % Chrysotile	
12-03-01453-004	CT-MEZ-6	White Textured, Fibrous	0.50 % Chrysotile	
12-03-01453-005	CT-MEZ-7 Tile	Tan Vinyl	1.00 % Chrysotile	
12-03-01453-006	CT-MEZ-11 Tile	White Vinyl	0.75 % Chrysotile	
12-03-01453-007	CT-MEZ-11 Mastic	Black Adhesive	1.25 % Chrysotile	

Environmental Hazards Services, L.L.C

Client Number: 18-4340 Report Number: 12-03-01453

Project/Test Address: C7530; Commonwealth of KY (Capital Tower); Frankfort, KY PO 105937; EHS# 12-03-00631

Lab Sample Number	Client Sample Number	Lab Gross Description	% Asbestos	Narrative ID

Reporting Limit: 0.25 % Asbestos

Method: EPA Method 600/R-93/116

Analyst: Kathy Sizemore

Reviewed By Authorized Signatory: Irma Faszewski

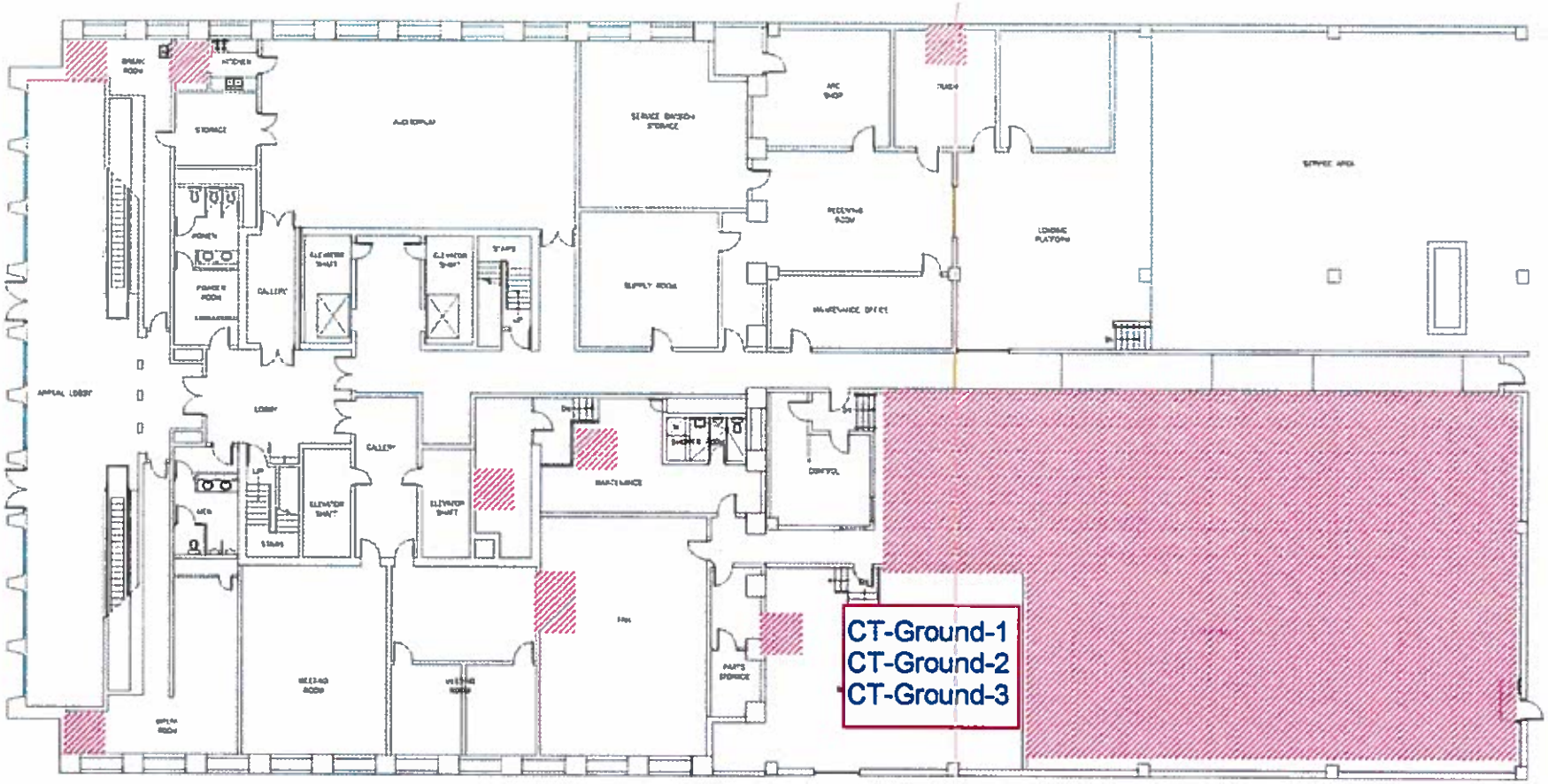
Irma Faszewski
QA/QC Manager

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714.

LEGEND NAD = No Asbestos Detected

Appendix C

Sample Locations

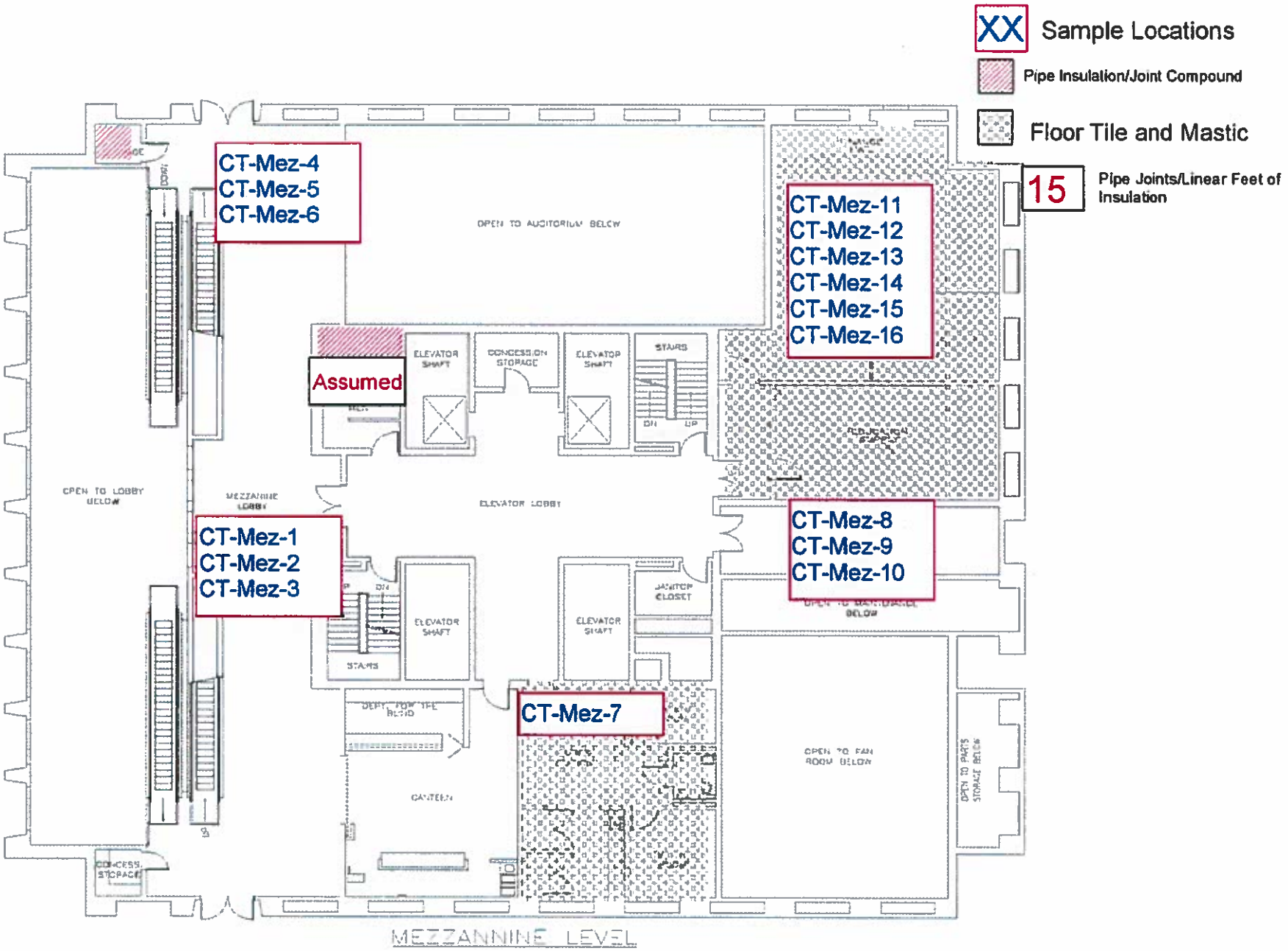


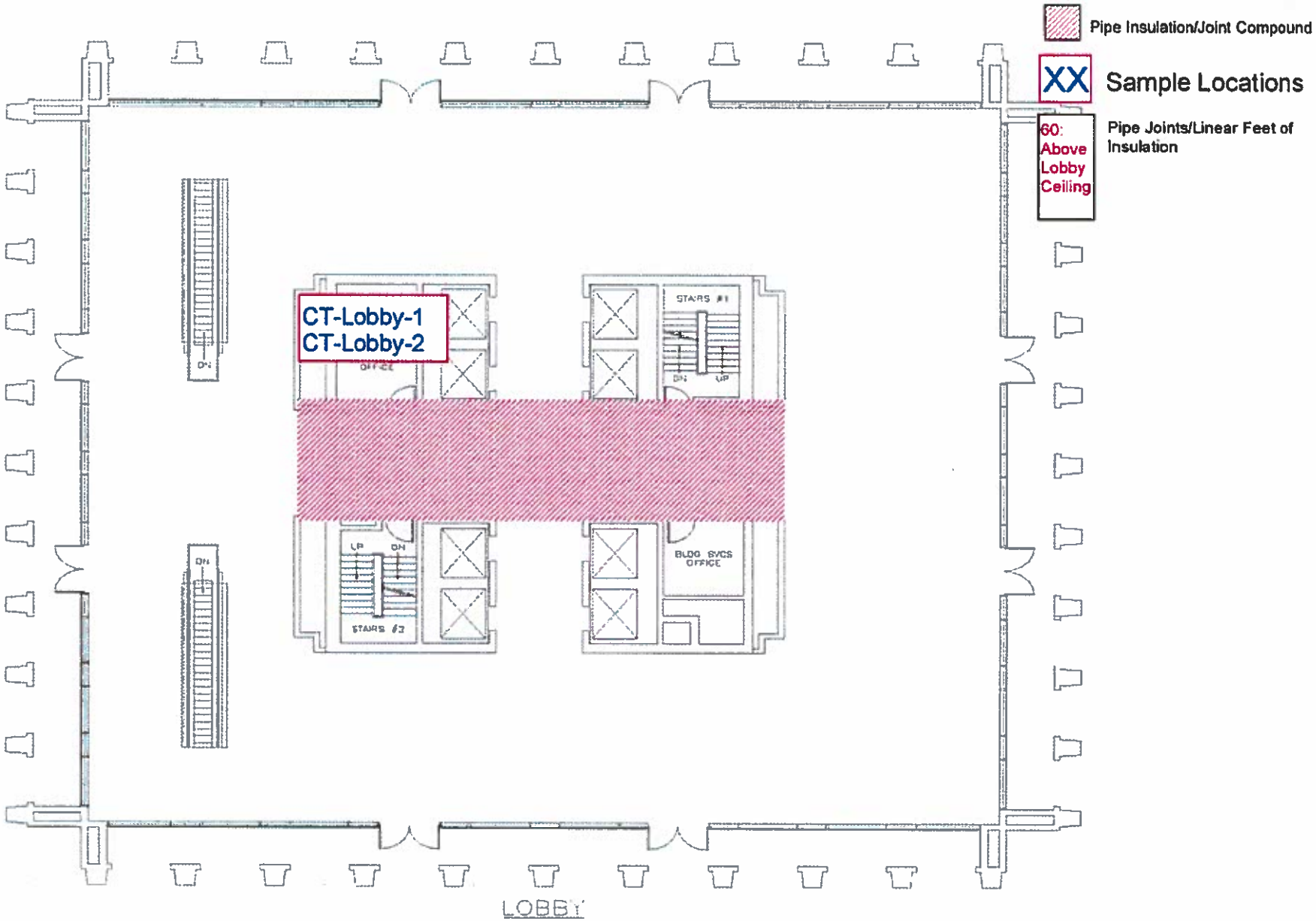
GROUND FLOOR

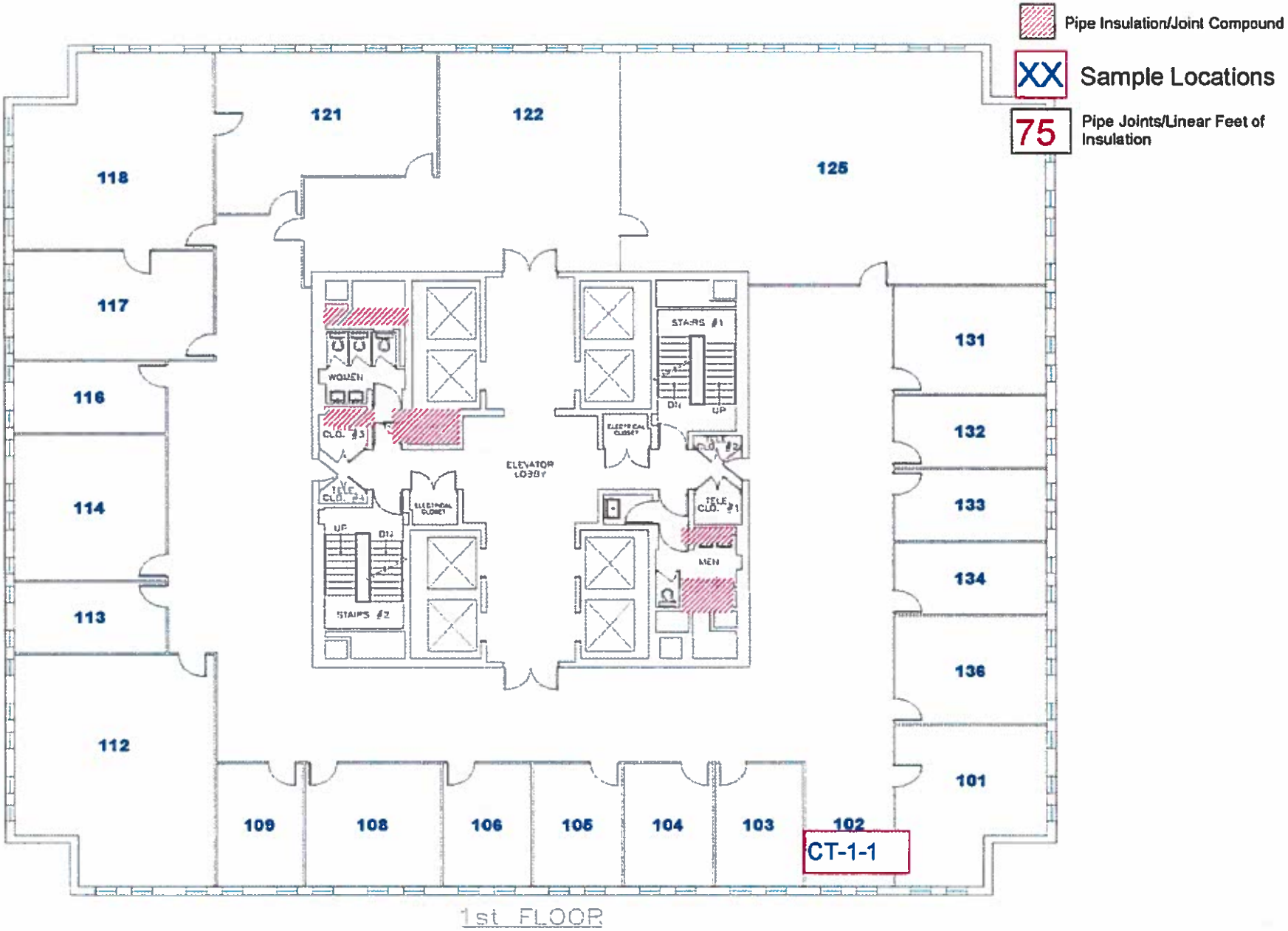
Pipe Insulation/Joint Compound

XX Sample Locations

137 Pipe Joints/Linear Feet of Insulation


XX Sample Locations
Pipe Insulation/Joint Compound
Floor Tile and Mastic
15 Pipe Joints/Linear Feet of Insulation
CT-Mez-4
CT-Mez-5
CT-Mez-6
CT-Mez-11
CT-Mez-12
CT-Mez-13
CT-Mez-14
CT-Mez-15
CT-Mez-16
Assumed
CT-Mez-1
CT-Mez-2
CT-Mez-3
CT-Mez-8
CT-Mez-9
CT-Mez-10
CT-Mez-7
OPEN TO AUDITORIUM BELOW
ELEVATOR SHAFT
CONCESSION STORAGE
ELEVATOR SHAFT
STAIRS
OPEN TO LOBBY BELOW
MEZZANINE LOBBY
ELEVATOR LOBBY
ELEVATOR SHAFT
ELEVATOR SHAFT
JANITOR CLOSET
STAIRS
CANTEEN
OPEN TO FAN ROOM BELOW
OPEN TO PARTS STORAGE BELOW
CONCESS. STORAGE
MEZZANNINE LEVEL


Pipe Insulation/Joint Compound
XX
Sample Locations
60: Above Lobby Ceiling
Pipe Joints/Linear Feet of Insulation
CT-Lobby-1
CT-Lobby-2
OFFICE
STAIRS #1
DN
UP
BLDG SVCS OFFICE
STAIRS #2
LOBBY


Pipe Insulation/Joint Compound
XX
Sample Locations
75
Pipe Joints/Linear Feet of Insulation
121
122
125
118
117
116
114
113
112
131
132
133
134
136
101
109
108
106
105
104
103
102
CT-1-1
WOMEN
CLO. #3
ELEVATOR LOBBY
STAIRS #1
UP
DN
ELECTRICAL CLOSET
TELE CLO. #2
TELE CLO. #1
MEN
STAIRS #2
1st FLOOR

Pipe Insulation/Joint Compound

75 Pipe Joints/Linear Feet of Insulation

2nd FLOOR

Pipe Insulation/Joint Compound

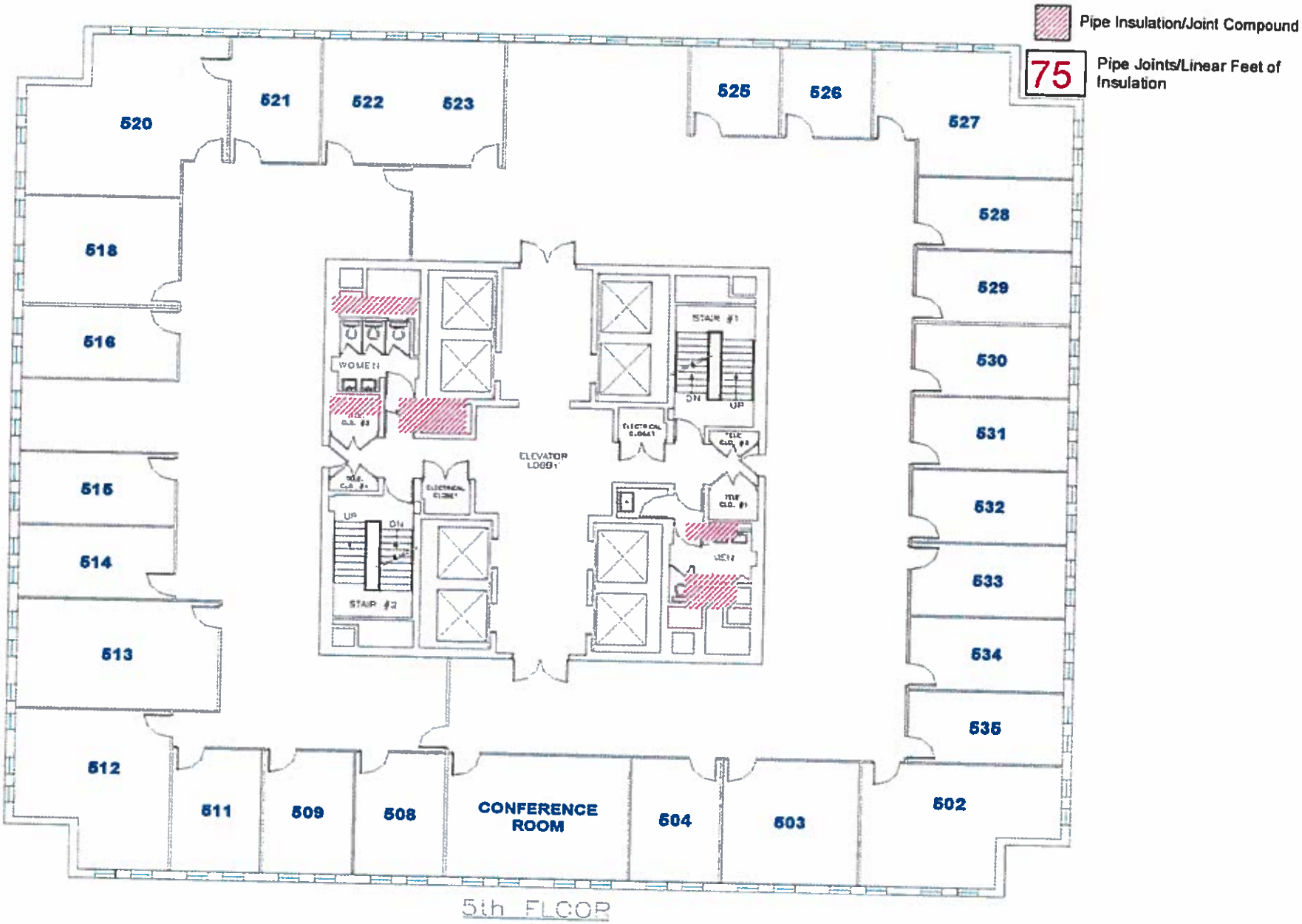
75 Pipe Joints/Linear Feet of Insulation

3rd FLOOR

Pipe Insulation/Joint Compound

75 Pipe Joints/Linear Feet of Insulation

4th FLOOR


Pipe Insulation/Joint Compound
75
Pipe Joints/Linear Feet of Insulation
520
521
522
523
525
526
527
528
529
530
531
532
533
534
535
518
516
515
514
513
512
511
509
508
CONFERENCE ROOM
504
503
502
WOMEN
STAIR #1
STAIR #2
ELEVATOR LOBBY
ELECTRICAL CLOSET
UP
DN
5th FLOOR

Pipe Insulation/Joint Compound

75 Pipe Joints/Linear Feet of Insulation

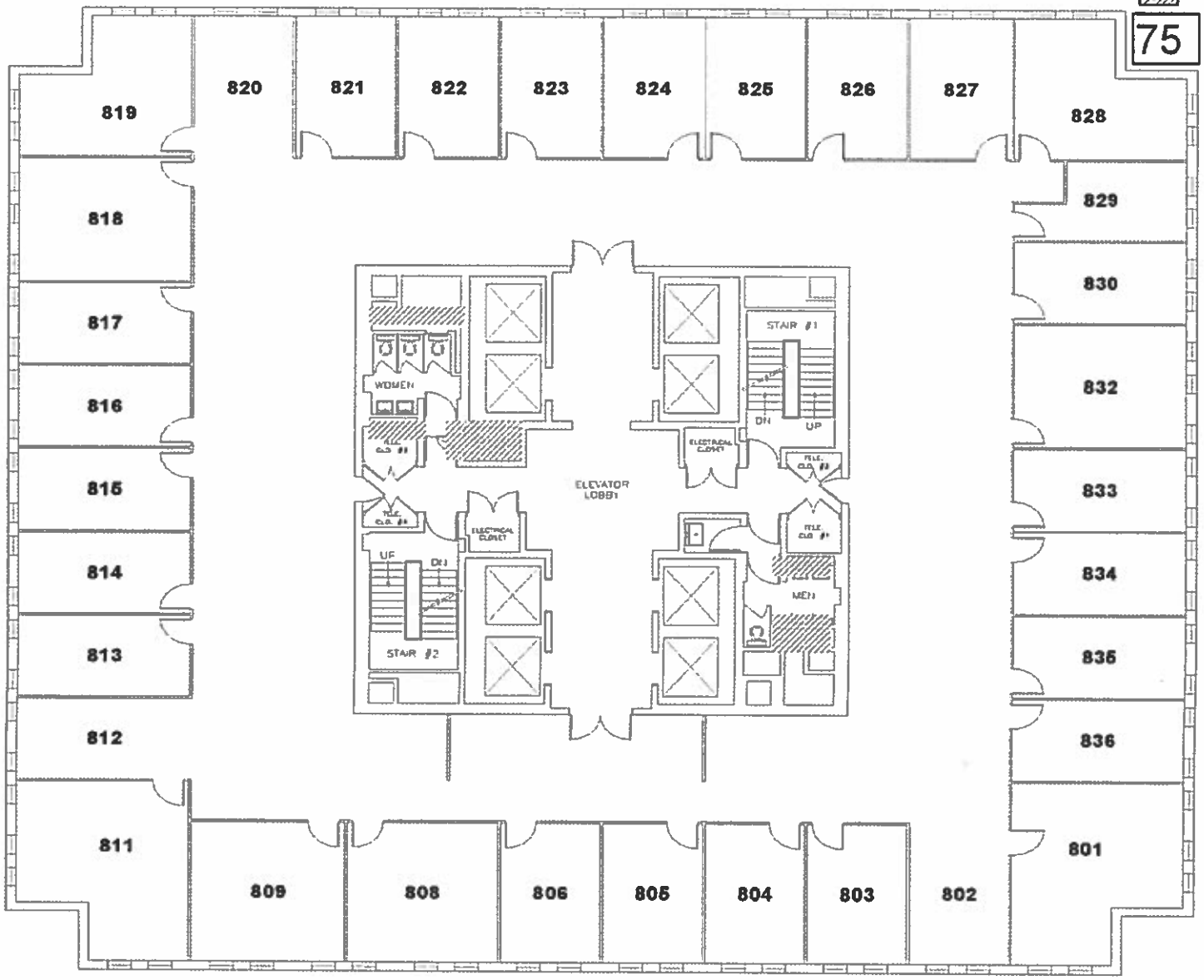
6th FLOOR

Pipe Insulation/Joint Compound
75
Pipe Joints/Linear Feet of Insulation
719
720
722
723
724
725
726
727
728
718
729
717
730
716
732
715
733
714
734
711
735
736
710
709
707
706
704
702
701
WOMEN
STAIR #1
DN
UP
ELEVATOR LOBBY
ELECTRICAL CLOSET
UP
DN
STAIR #2
MEN

7th FLOOR

Pipe Insulation/Joint Compound

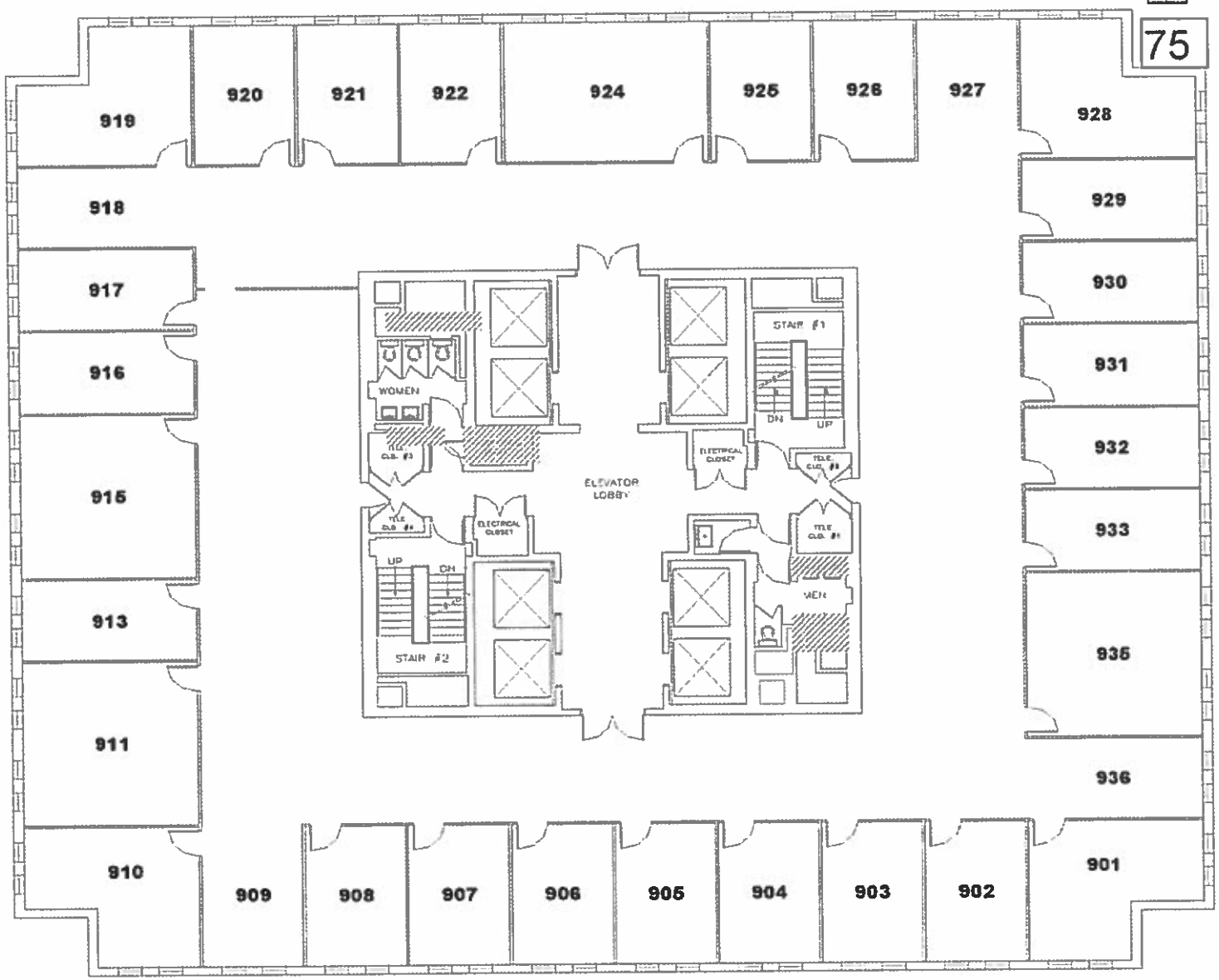
75 Pipe Joints/Linear Feet of Insulation



8th FLOOR

Pipe Insulation/Joint Compound

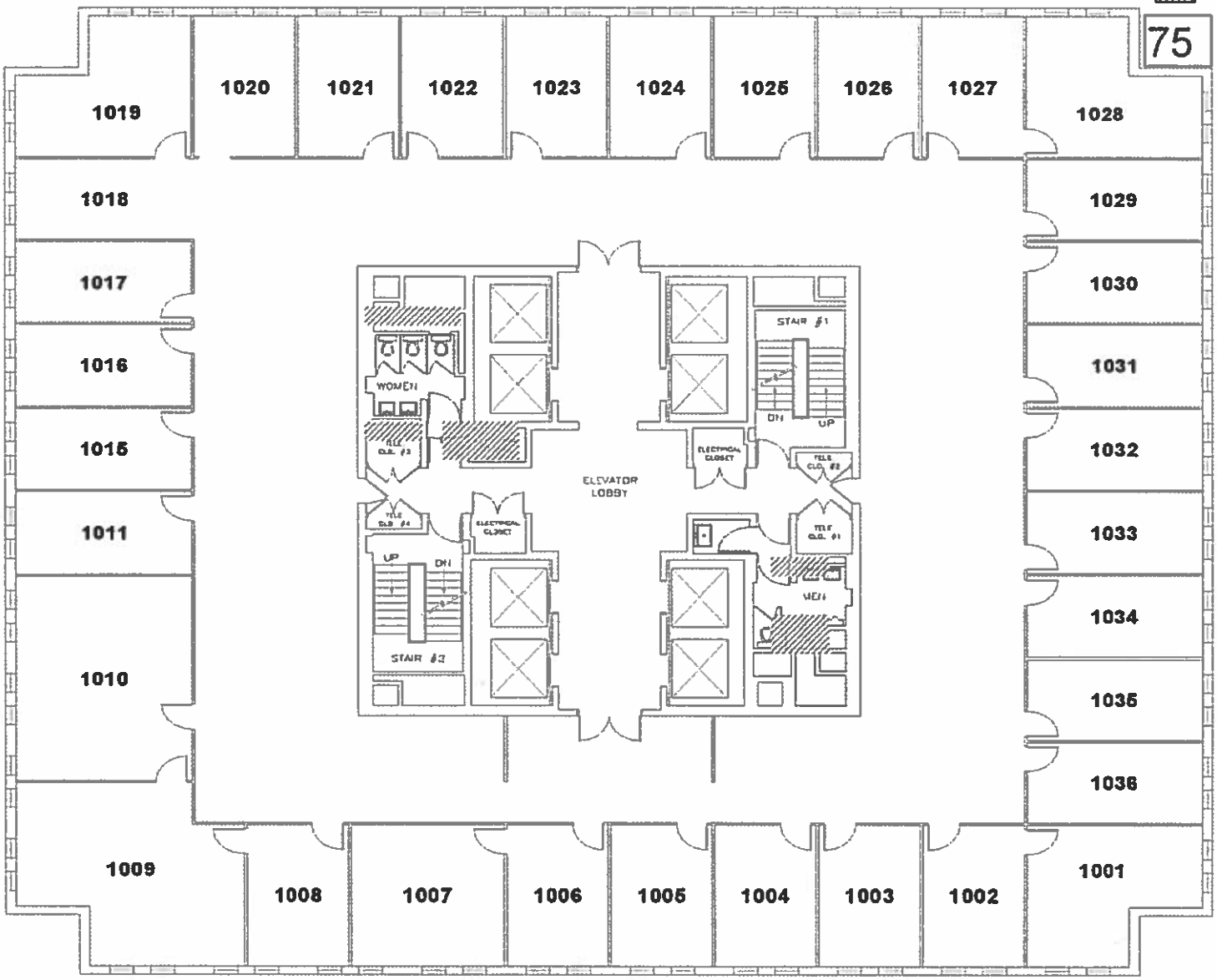
75 Pipe Joints/Linear Feet of Insulation



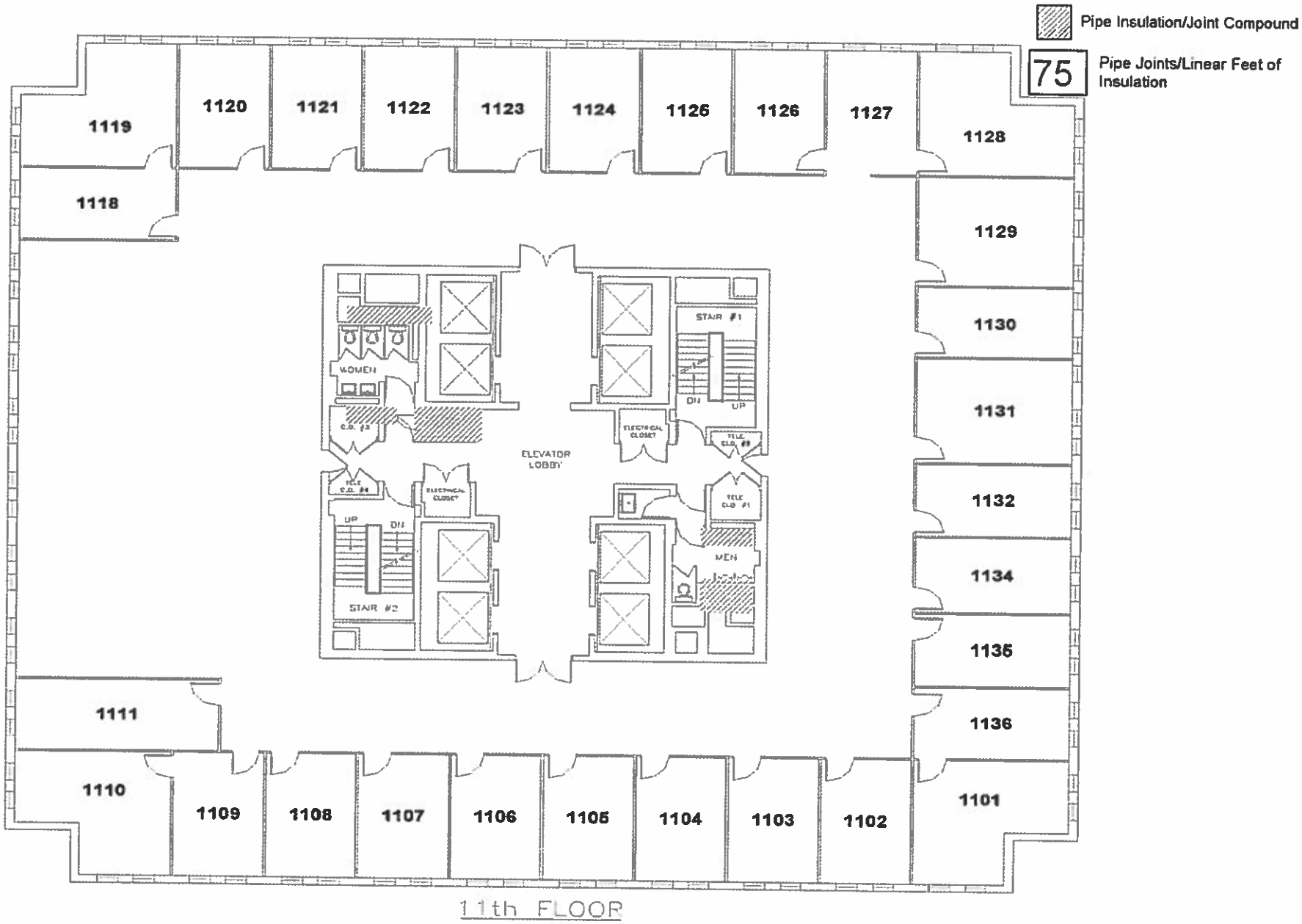
9th FLOOR

Pipe Insulation/Joint Compound

75 Pipe Joints/Linear Feet of Insulation



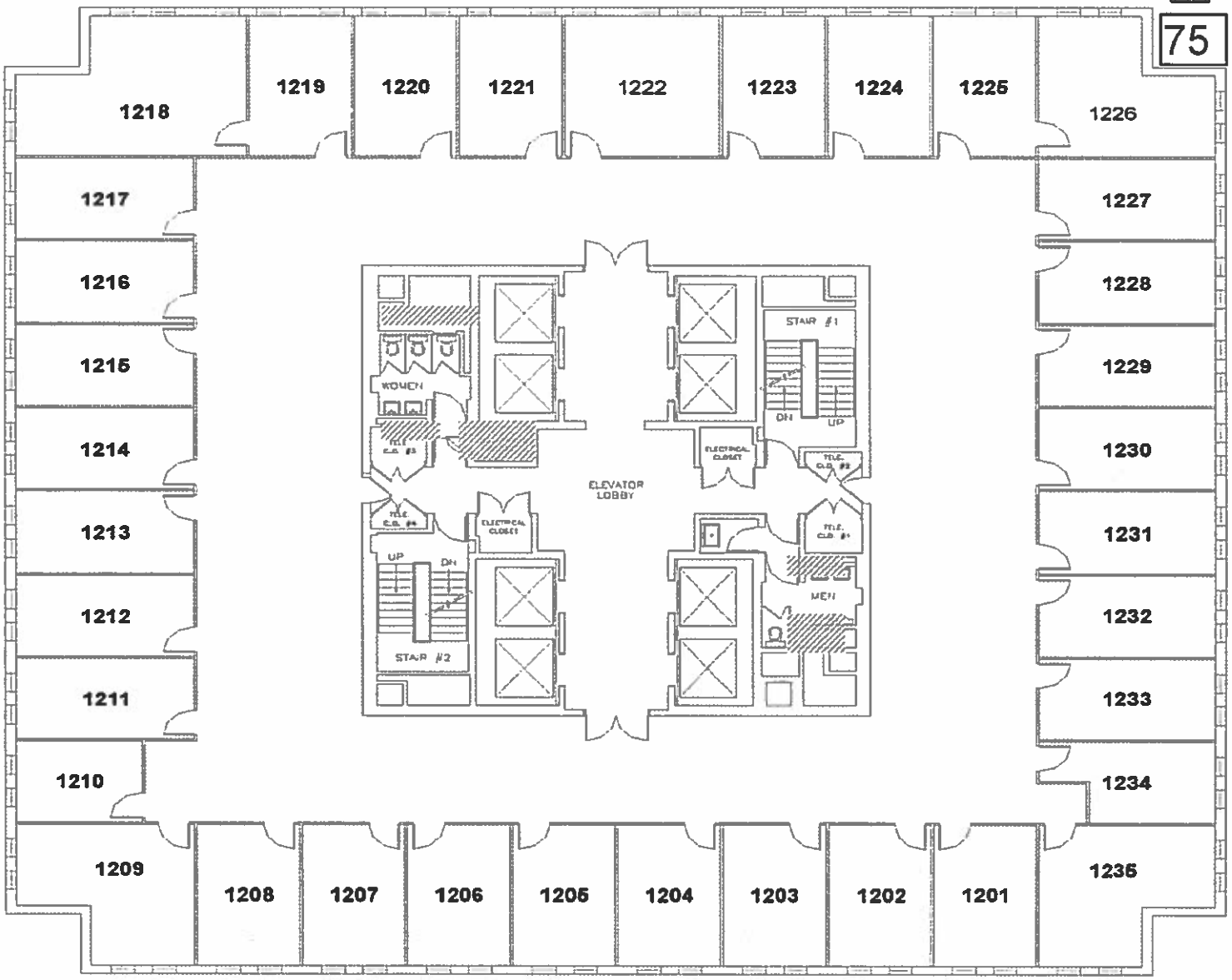
10th FLOOR


Pipe Insulation/Joint Compound
75
Pipe Joints/Linear Feet of Insulation
1119
1120
1121
1122
1123
1124
1126
1126
1127
1128
1118
1129
1130
1131
1132
1134
1135
1136
1111
1110
1109
1108
1107
1106
1105
1104
1103
1102
1101
WOMEN
STAIR #1
DN
UP
ELEVATOR LOBBY
ELECTRICAL CLOSET
ELECTRICAL CLOSET
UP
DN
STAIR #2
MEN

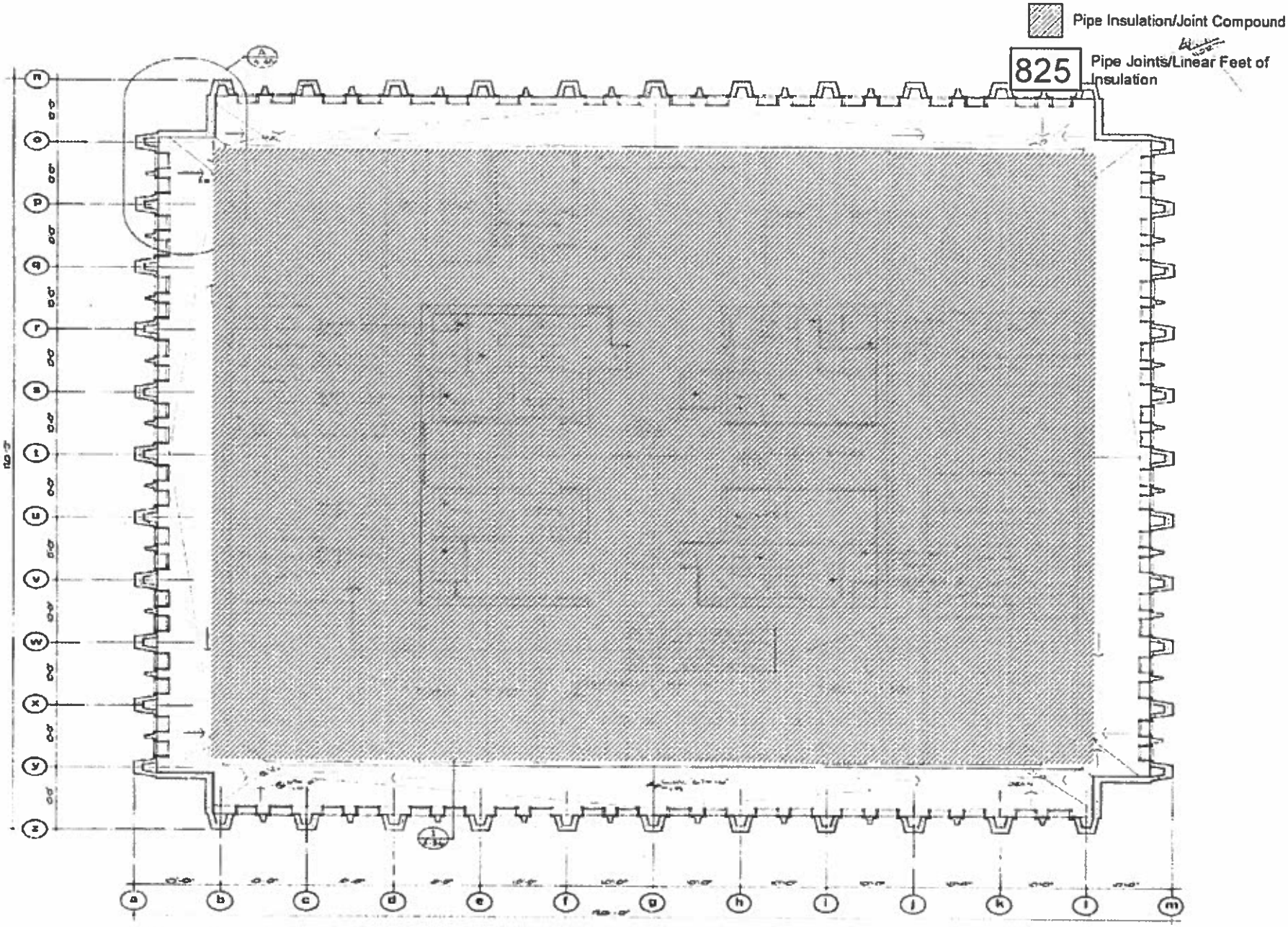
11th FLOOR

Pipe Insulation/Joint Compound

75 Pipe Joints/Linear Feet of Insulation



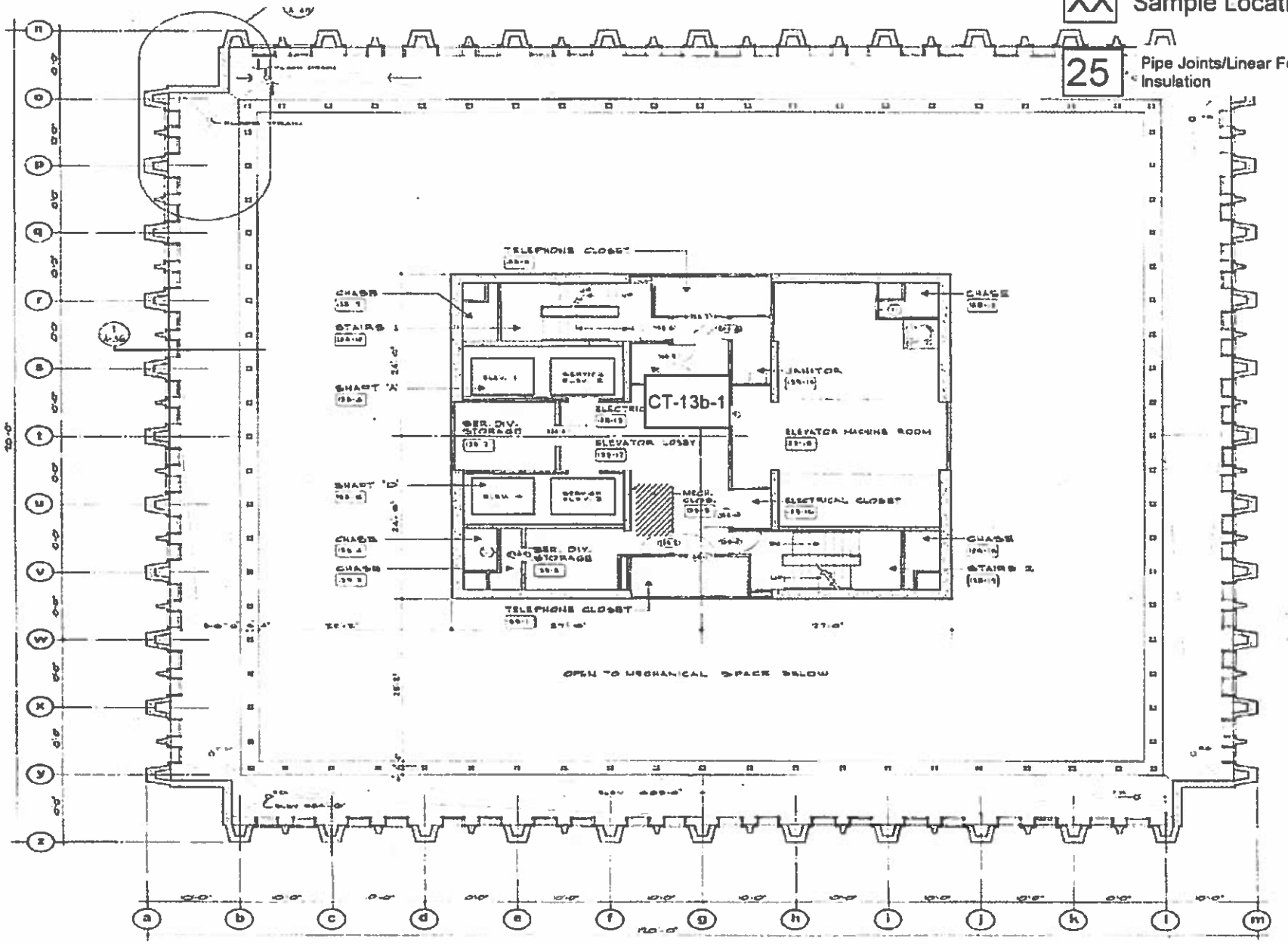
12th FLOOR


Pipe Insulation/Joint Compound
825
Pipe Joints/Linear Feet of Insulation
PLAN 13-A FLOOR SECTOR C-2

Pipe Insulation/Joint Compound

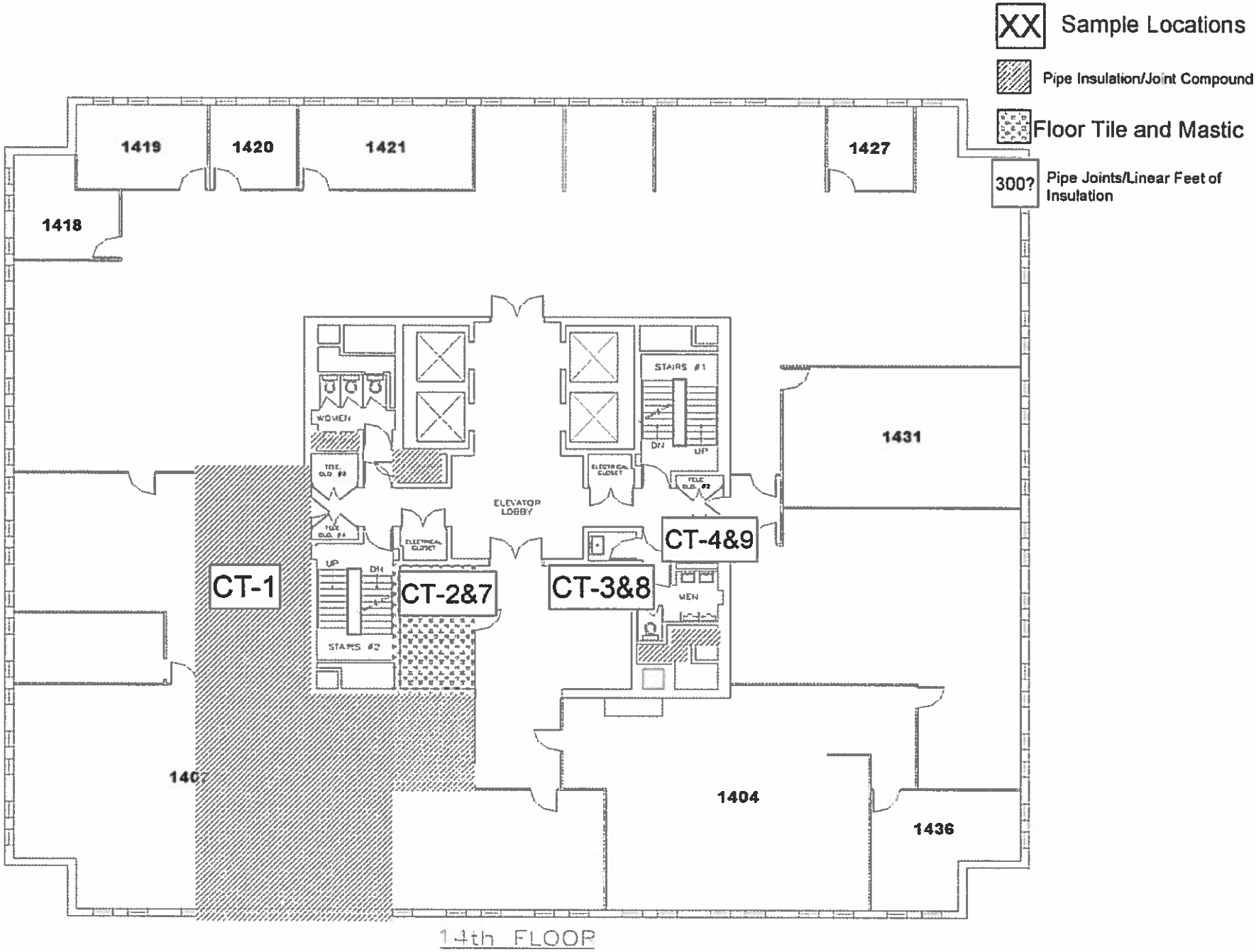
XX Sample Locations

25 Pipe Joints/Linear Feet of Insulation



PLAN 13-B FLOOR SECTOR C-2

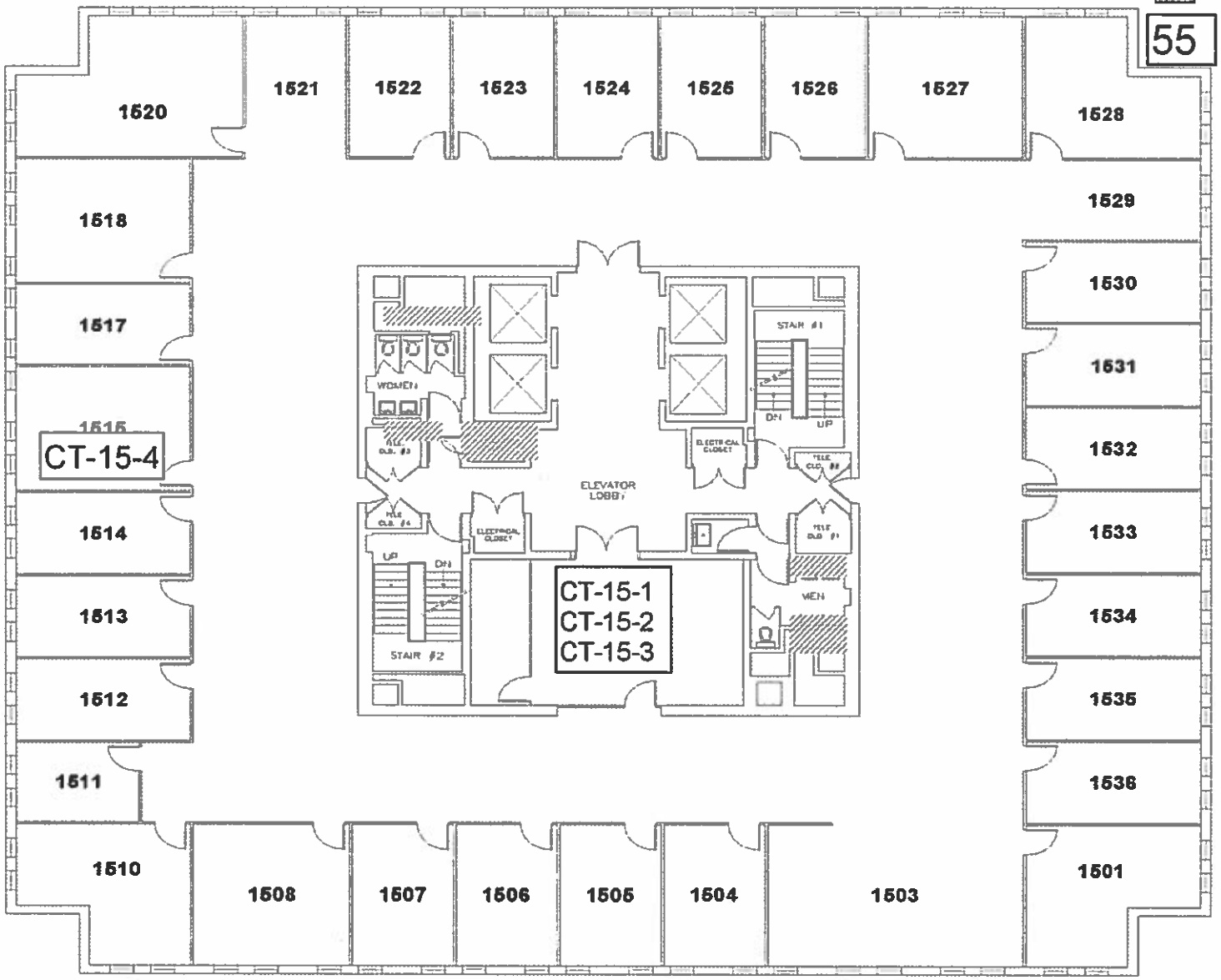
1/8" = 1'-0"


XX Sample Locations
Pipe Insulation/Joint Compound
Floor Tile and Mastic
300? Pipe Joints/Linear Feet of Insulation
1419
1420
1421
1427
1418
1431
1407
1404
1436
WOMEN
MEN
STAIRS #1
STAIRS #2
ELEVATOR LOBBY
ELECTRICAL CLOSET
CT-1
CT-2&7
CT-3&8
CT-4&9
14th FLOOR

XX Sample Locations

Pipe Insulation/Joint Compound

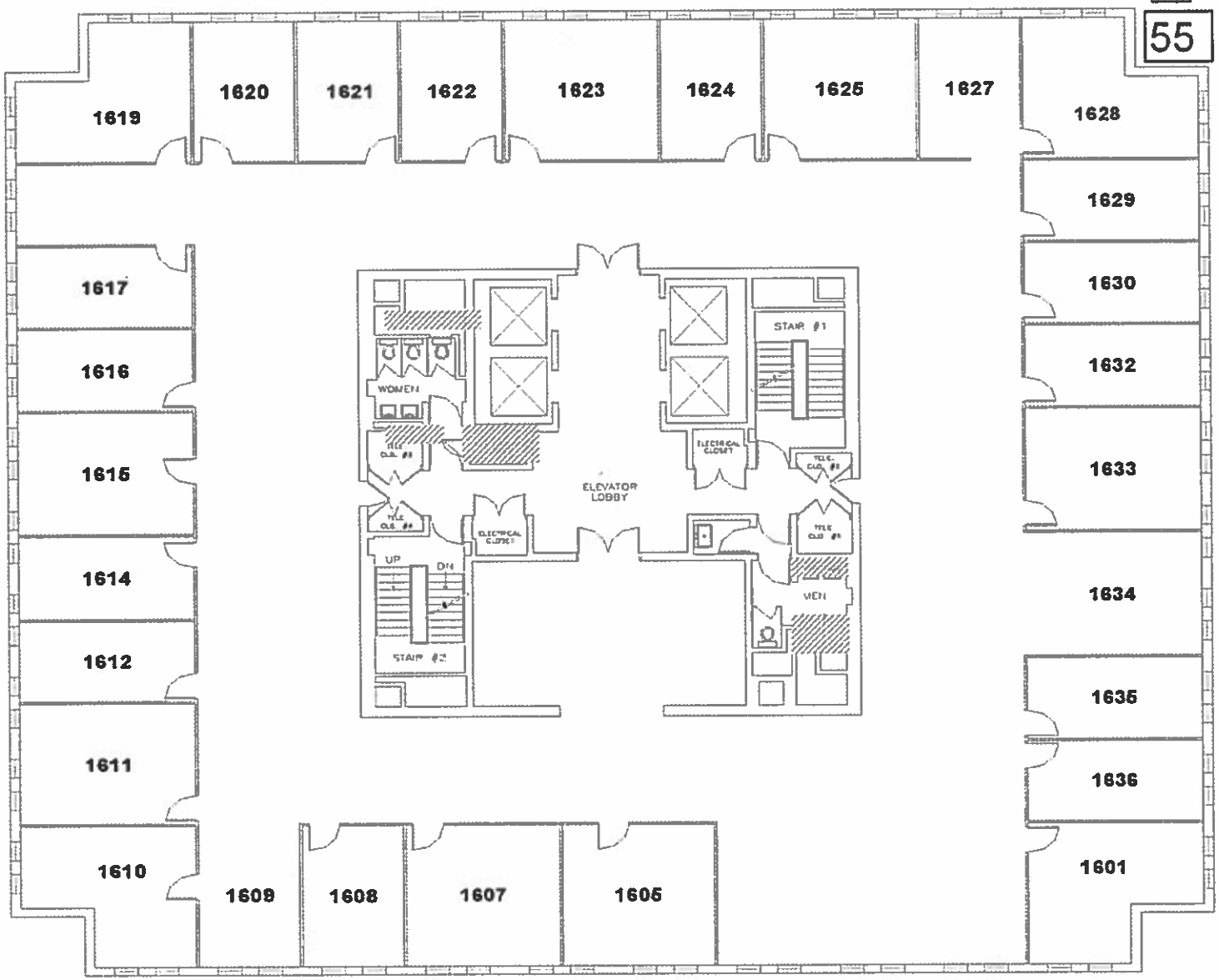
55 Pipe Joints/Linear Feet of Insulation



15th FLOOR

Pipe Insulation/Joint Compound

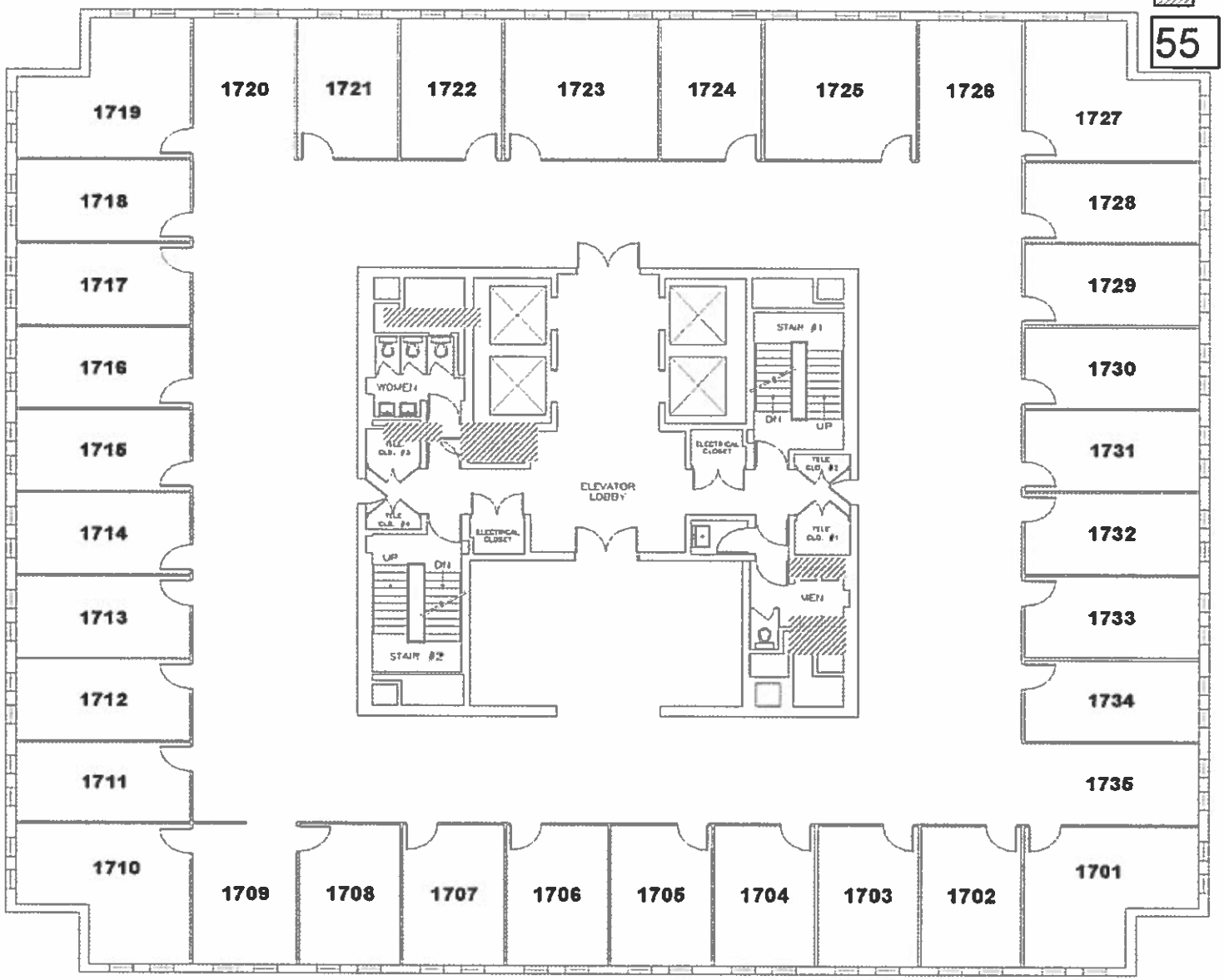
55 Pipe Joints/Linear Feet of Insulation



16th FLOOR

Pipe Insulation/Joint Compound

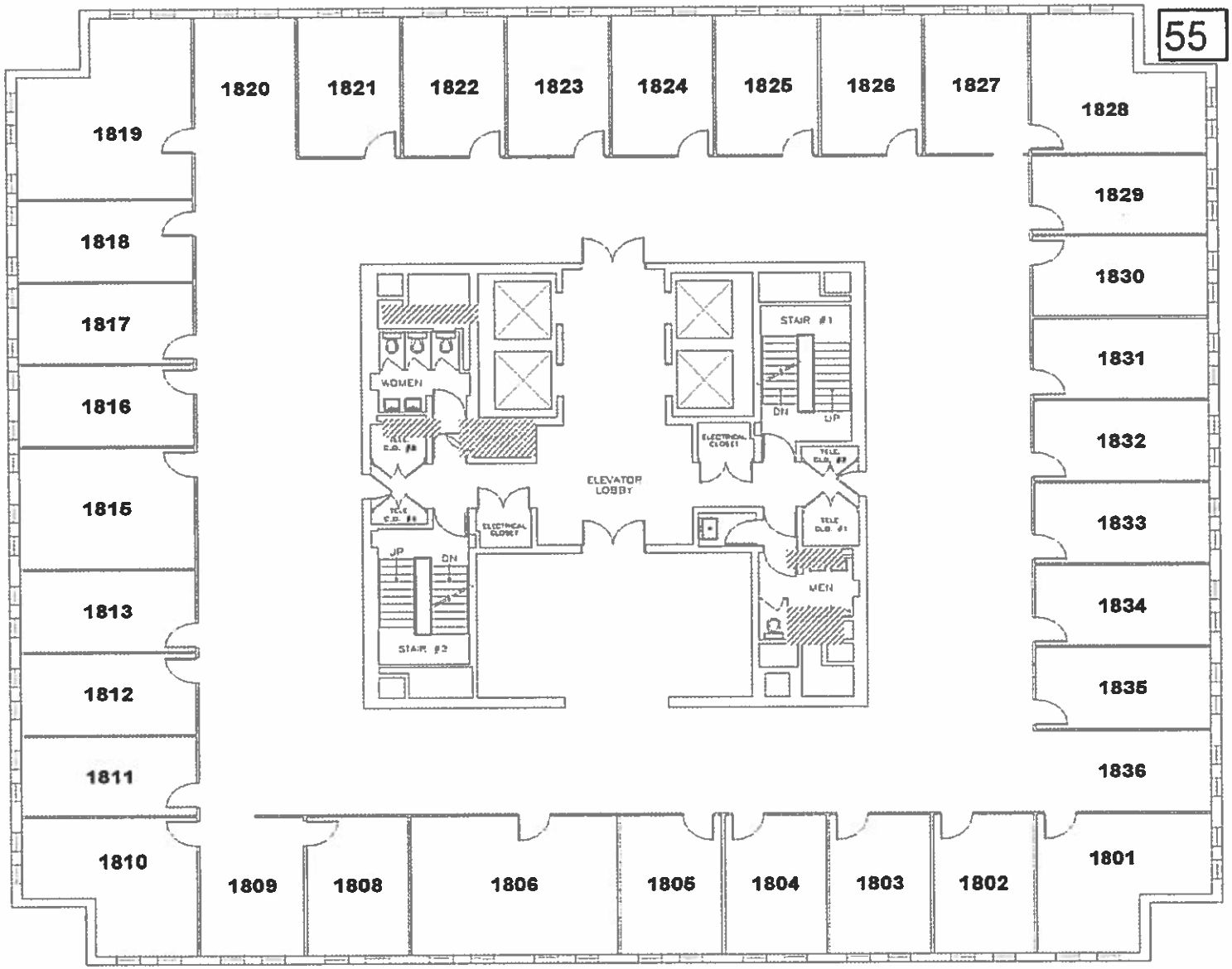
55 Pipe Joints/Linear Feet of Insulation



17th FLOOR

Pipe Insulation/Joint Compound

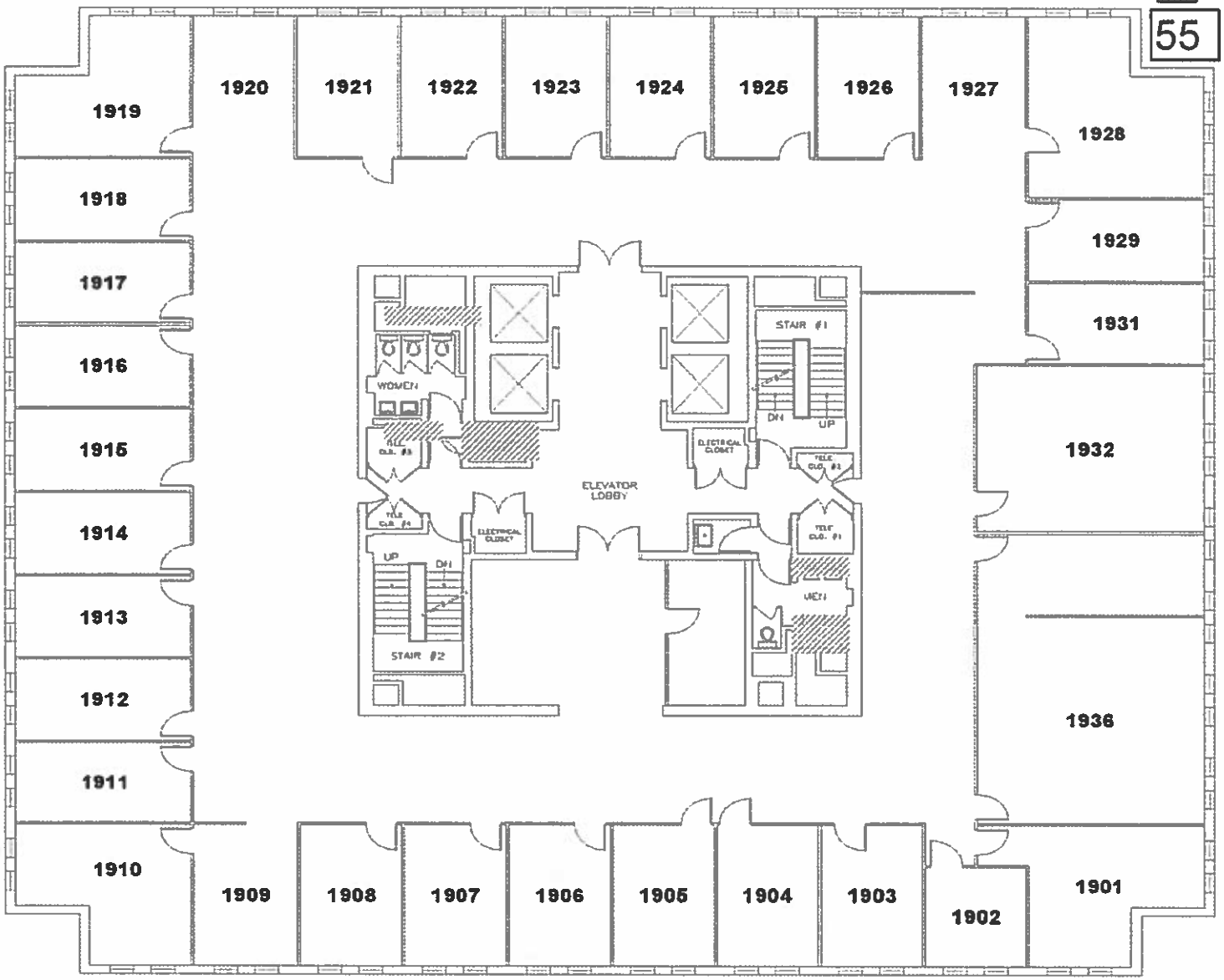
55 Pipe Joints/Linear Feet of Insulation



18th FLOOR

Pipe Insulation/Joint Compound

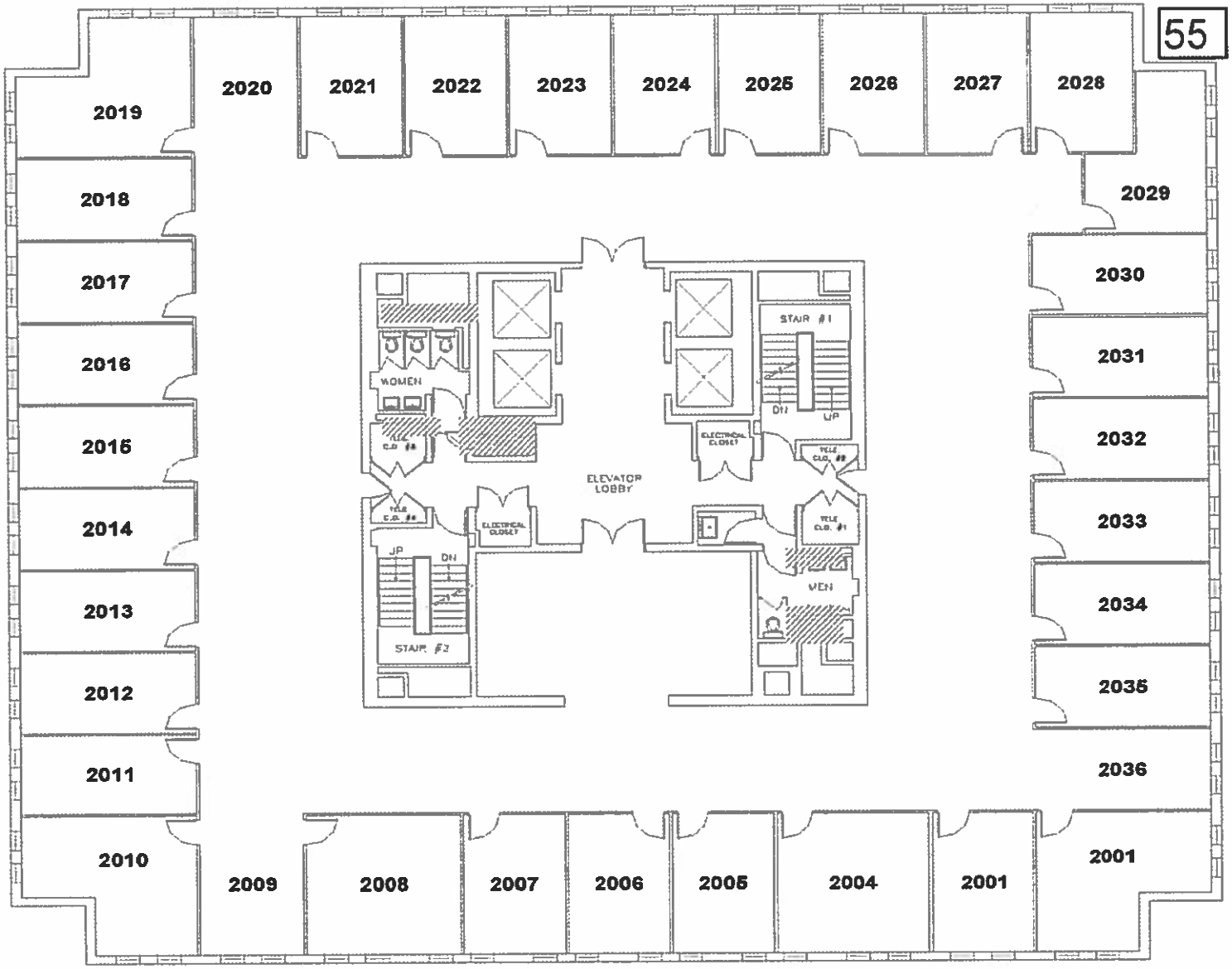
55 Pipe Joints/Linear Feet of Insulation



19th FLOOR

Pipe Insulation/Joint Compound

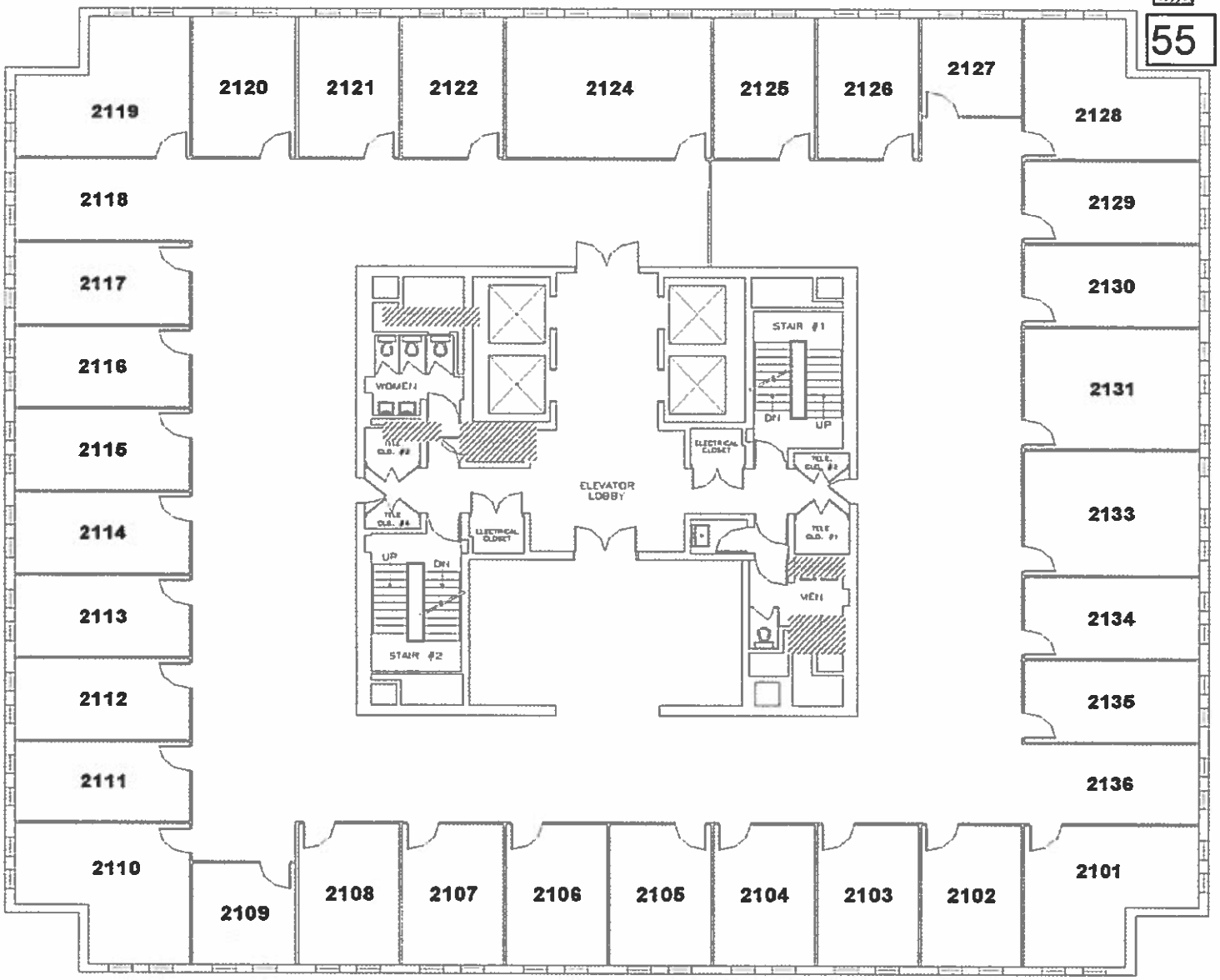
55 Pipe Joints/Linear Feet of Insulation



20th FLOOR

Pipe Insulation/Joint Compound

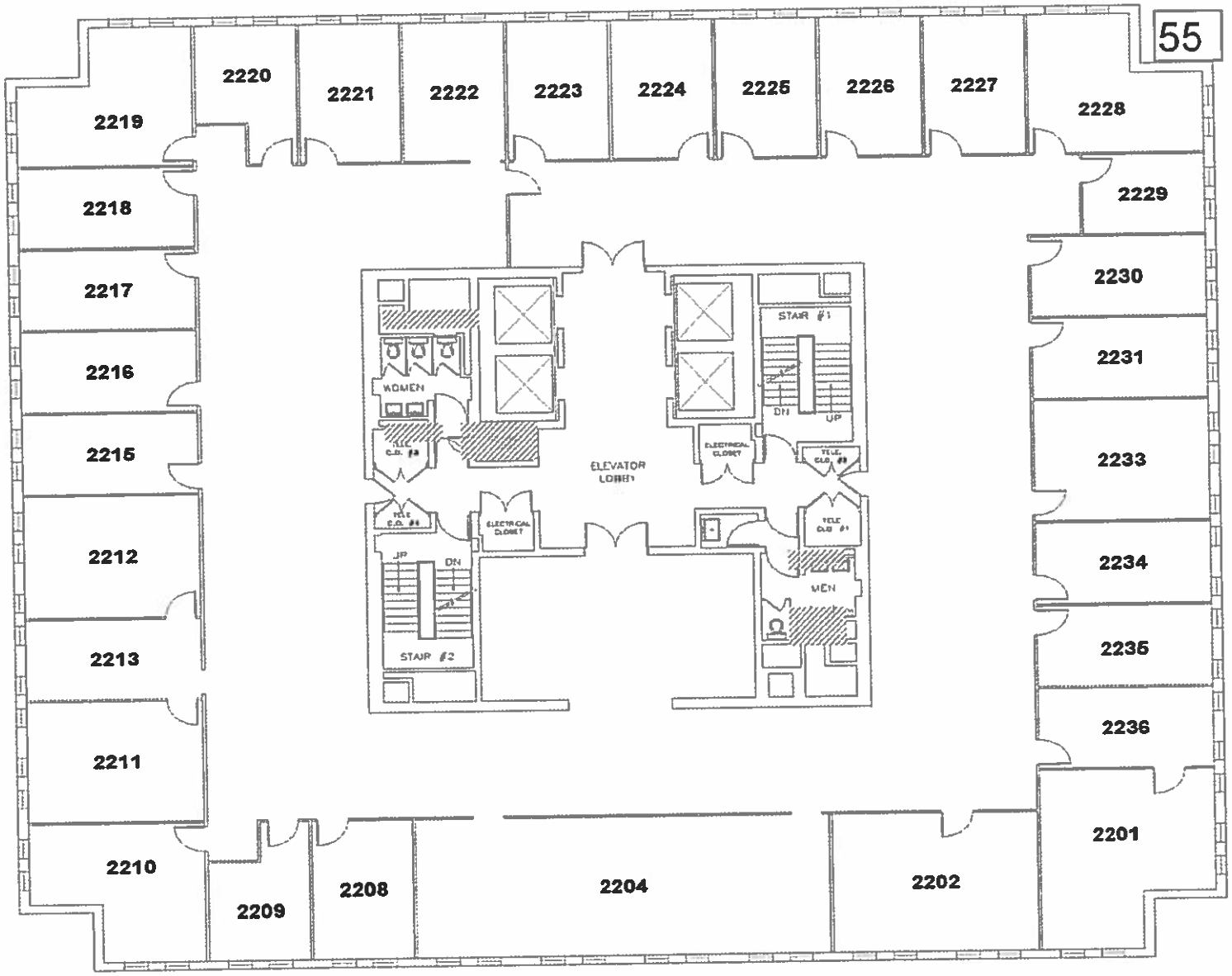
55 Pipe Joints/Linear Feet of Insulation



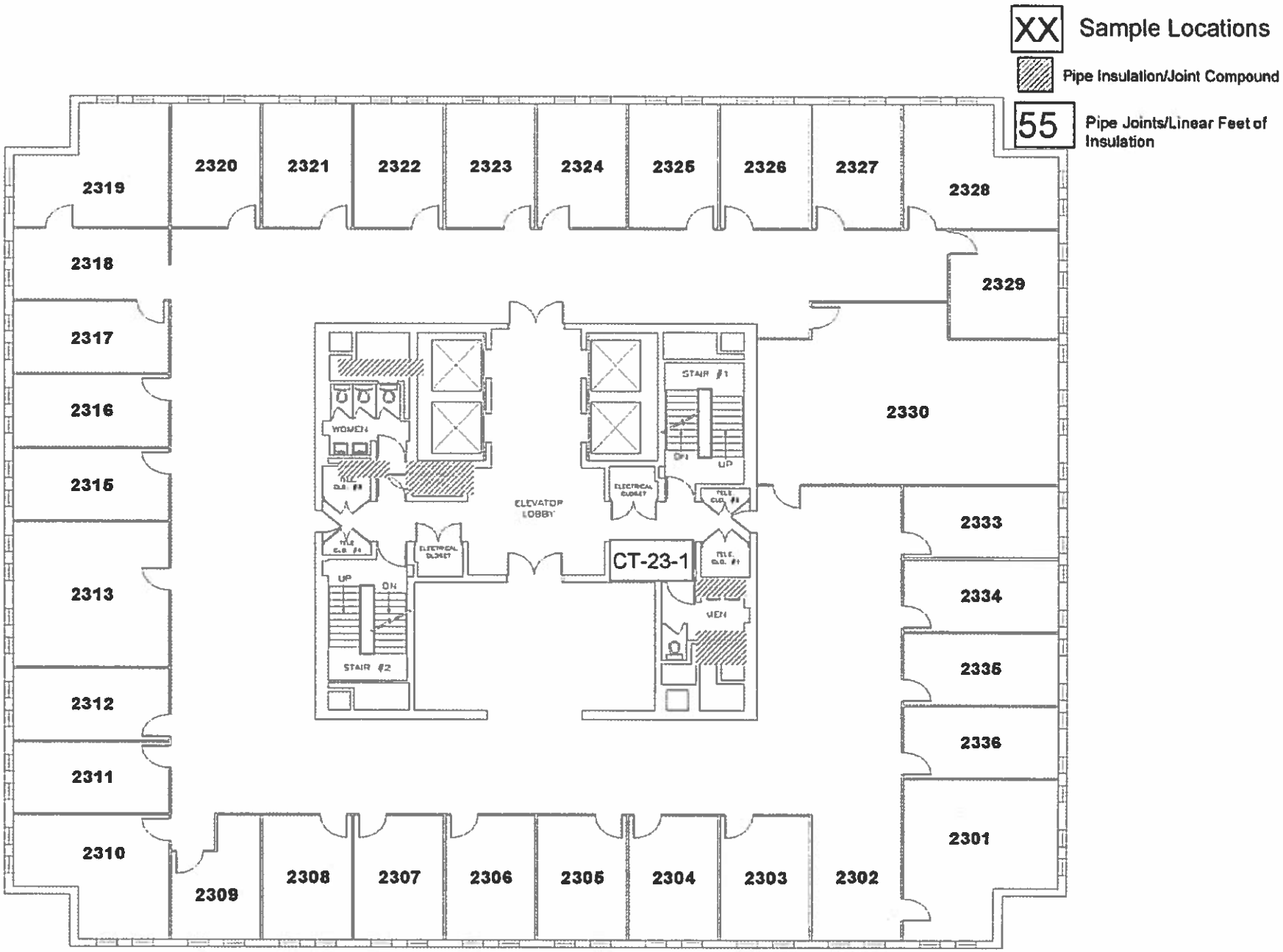
21st FLOOR

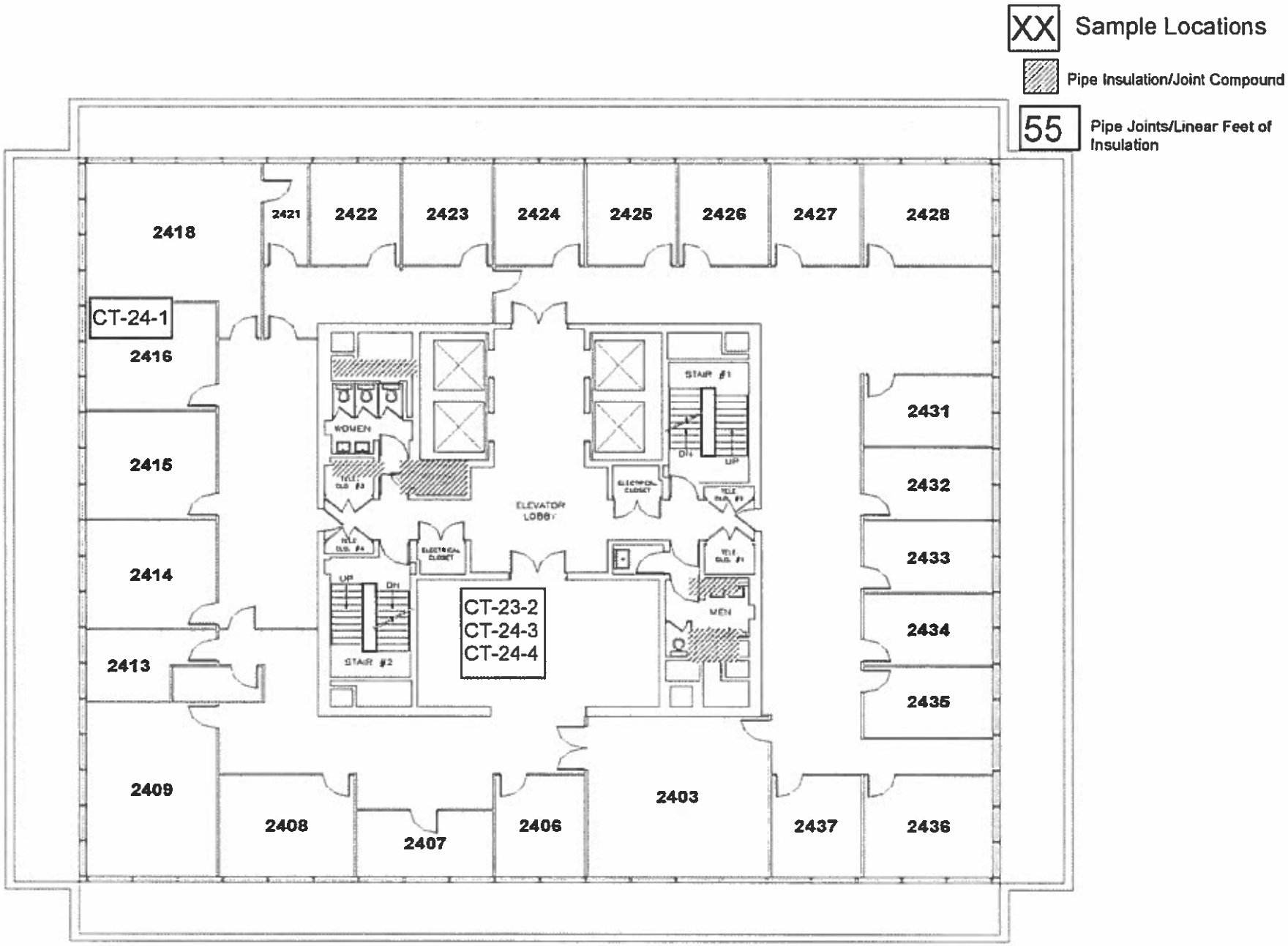
Pipe Insulation/Joint Compound

55 Pipe Joints/Linear Feet of Insulation

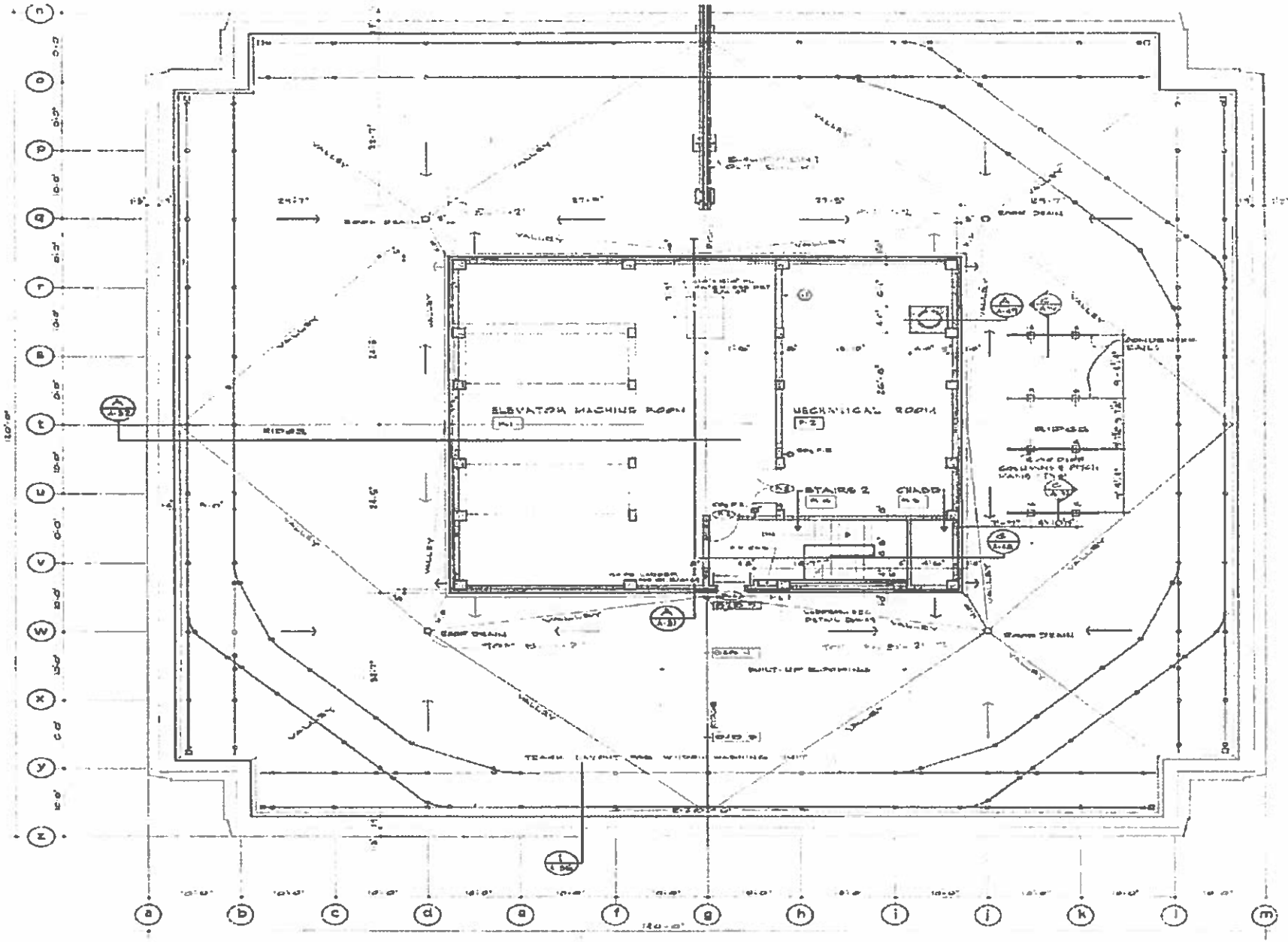


22nd FLOOR


XX Sample Locations
Pipe Insulation/Joint Compound
55 Pipe Joints/Linear Feet of Insulation
2319
2320
2321
2322
2323
2324
2325
2326
2327
2328
2318
2329
2317
2316
2330
2315
2333
2313
2334
2335
2312
2336
2311
2301
2310
2309
2308
2307
2306
2305
2304
2303
2302
WOMEN
STAIR #1
UP
DN
ELEVATOR LOBBY
ELECTRICAL CLOSET
CT-23-1
MEN
STAIR #2
23rd FLOOR


XX Sample Locations
Pipe Insulation/Joint Compound
55 Pipe Joints/Linear Feet of Insulation
2418
2421
2422
2423
2424
2425
2426
2427
2428
CT-24-1
2416
2415
2414
2413
2409
2408
2407
2406
2403
2437
2436
2431
2432
2433
2434
2435
WOMEN
MEN
STAIR #1
STAIR #2
ELEVATOR LOBBY
ELECTRICAL CLOSET
CT-23-2
CT-24-3
CT-24-4

24th FLOOR



PLAN PENTHOUSE AND ROOF SECTOR C-2