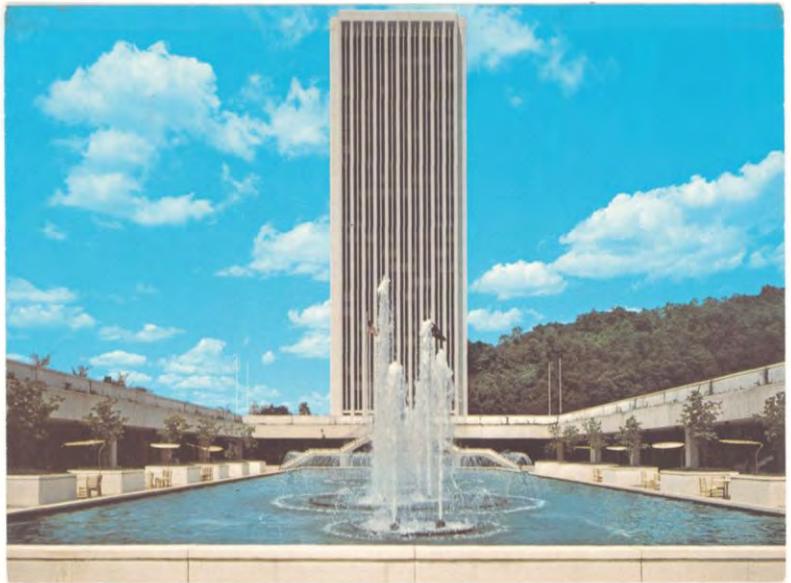


Asbestos Containing Materials Inspection

Capital Plaza Area
500 Mero Street
Frankfort, Kentucky



Prepared for:

**Kentucky Finance & Administration Cabinet
Division of Engineering & Contract Administration
403 Wapping Street
Frankfort, Kentucky 40601**

Prepared by:

**Lee Engineering, LLC
Environment & Infrastructure**

**P.O. Box 500
Lawrenceburg, KY 40342
(502) 859-0190 ♦ (502) 859-3000 fax
jleeeng@bellsouth.net**

April 7, 2017

April 7, 2017

Mr. Maziar Torabi, P.E.
KY Finance and Administration Cabinet
Division of Engineering
Frankfort, KY 40601

RE: Asbestos Inspection
Capital Plaza Area
500 Mero Street
Frankfort, KY 40601

Dear Mr. Torabi:

Lee Engineering, LLC has completed the authorized asbestos inspection of the Capital Plaza Area located between Mero Street and Clinton Street. We also inspected the Wilkinson Avenue Offices in Frankfort, Kentucky. Two visits to the site were made in 2017: March 31 and April 3. Figure 1 shows the location of the building located between Mero Street and Clinton Street. There were no architectural drawings available.

The objective of the inspection was to identify asbestos containing materials (ACM) that could be potentially disturbed by maintenance workers or possible demolition activities. Generally, the area has defined work areas, offices, hallways/stairwells, maintenance/heating/cooling areas and other service areas.

Asbestos containing materials (ACM) were present in several areas. As shown in this report, ACM's were found in the following locations: all of the mechanical rooms. In the mechanical rooms, there is a cloth connector between metal duct work near the fans. Only one of the areas was sampled, but it came back at 25%. As we found in the tower, some of the elbows and joints of pipe runs in the mechanical rooms had a white/gray mud packing that also tested positive for ACM's. The pipe runs need to be checked for mud joints in their entirety. On some of the piping a gray insulation was found that also tested positive for ACM. The only place that we saw this was in quadrant 4 of the main mechanical room D. We did not inspect any of the fire doors, but they should be considered as an asbestos containing material.

P.O. Box 500
Lawrenceburg, Kentucky 40342
Ph: (502) 859-0190
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jlleeeng@bellsouth.net
Lee Engineering, LLC
Environment & Infrastructure

Sample #'s: 40, 45B, 67, 80, 85, 90, and 96B were all point counted and proved to be non-ACM. A summary of the sampling locations and analytical results for the friable samples are included in the table below. These are the materials that will need to be abated.

Table 1 – Asbestos Containing Materials Inspection Summary

Sample ID	Location	Matrix	Color	Asbestos Content, %
4	Air handler fan V-3, Mechanical Room D	Cloth	White/black	25%
9	Chilled water supply	Elbow mud packing	White	8%
11	Chilled water supply	Mud packing	white	3%
16	Heating water return	Mud packing	Gray	3%
18	Chilled water return	Mud packing	Gray	3%
20	Civic Center – orange pipe	Mud packing	Gray	3%
27	ETEC 2554 elbow	Insulation	Gray	5%
29	Chilled water return	Insulation	Gray	5%
31	Hot water return	Insulation	Gray	3%
33	C5 Pipe elbow	Mud	Gray	5%
38	B5 heating water supply	Mud	Gray	5%

It is our opinion that based on the inspection and the analytical results the main areas of concern are the mechanical rooms. Please call me at (502) 600-0016 if you have any questions.

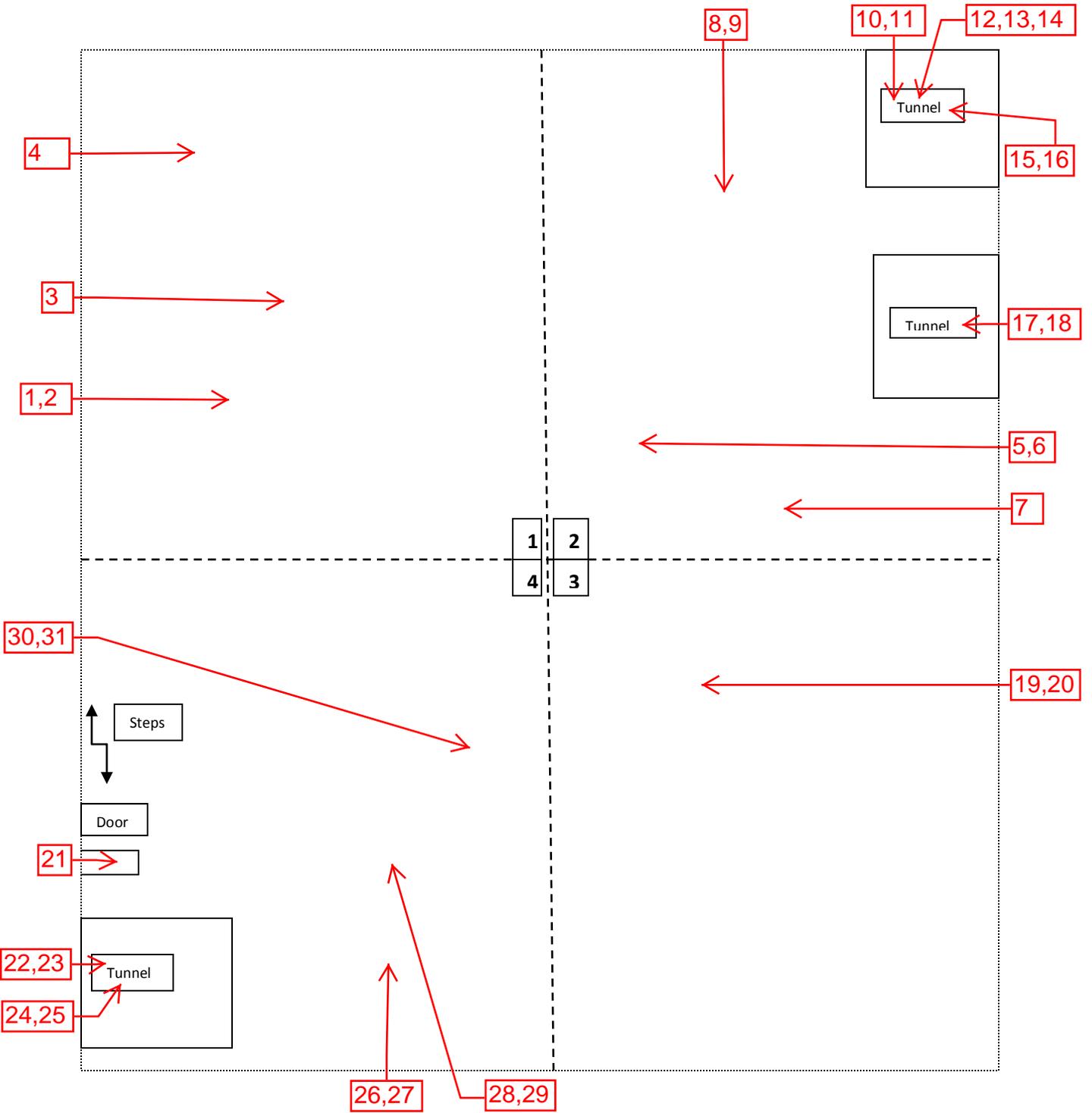
Sincerely,

Jeff Lee, P.E.

P.O. Box 500
 Lawrenceburg, Kentucky 40342
 Ph: (502) 859-0190
 Fx: (502) 859-3000
jlleeng@bellsouth.net

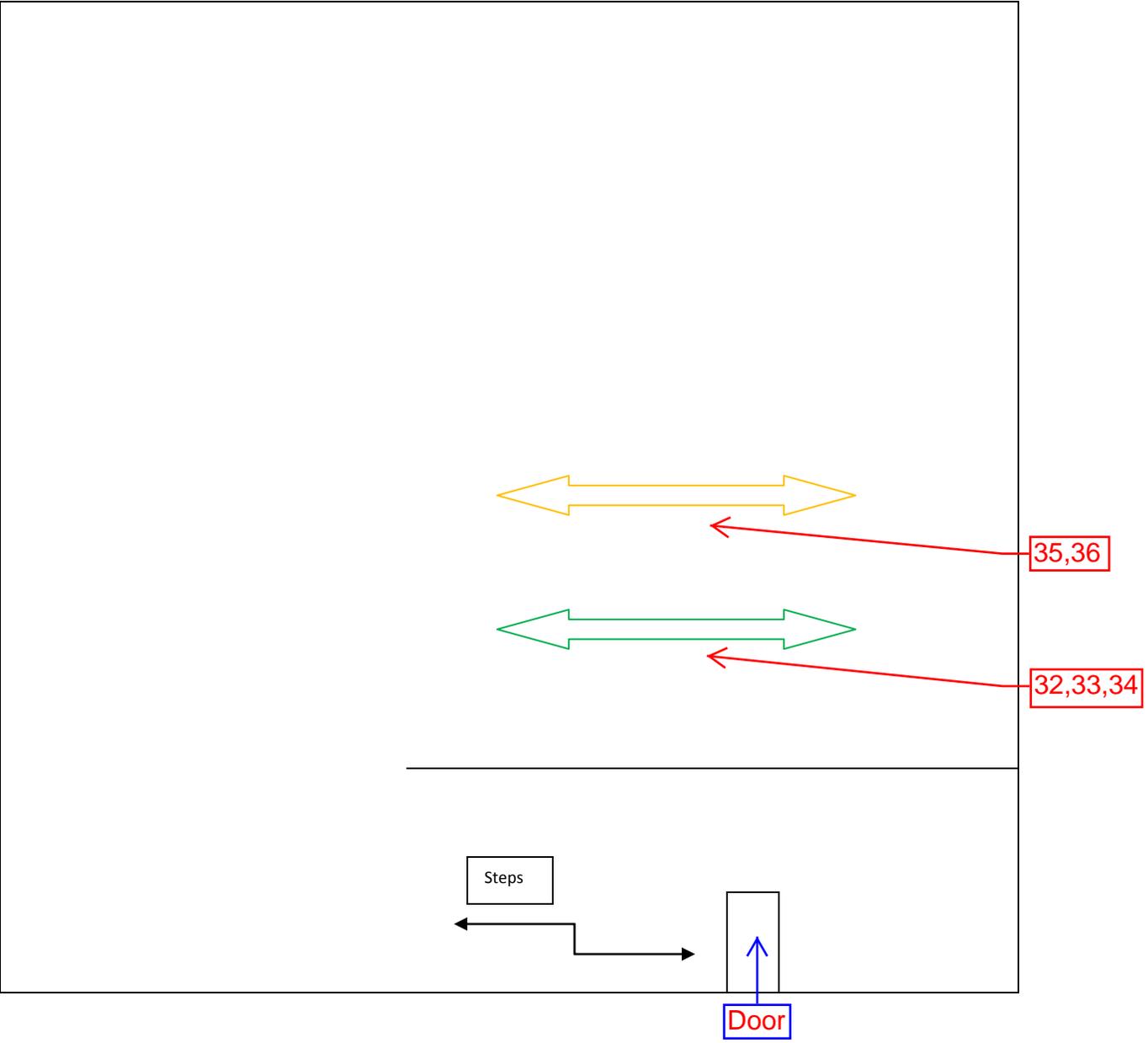


<p>F&A Division of Engineering 500 Mero Street Frankfort, Kentucky 40601</p>	<p>FIGURE 1</p>
<p>Lee Engineering, LLC P.O. Box 500 Lawrenceburg, KY 40342</p>	<p>Capital Plaza Area 500 Mero Street Frankfort, Kentucky 40601</p>



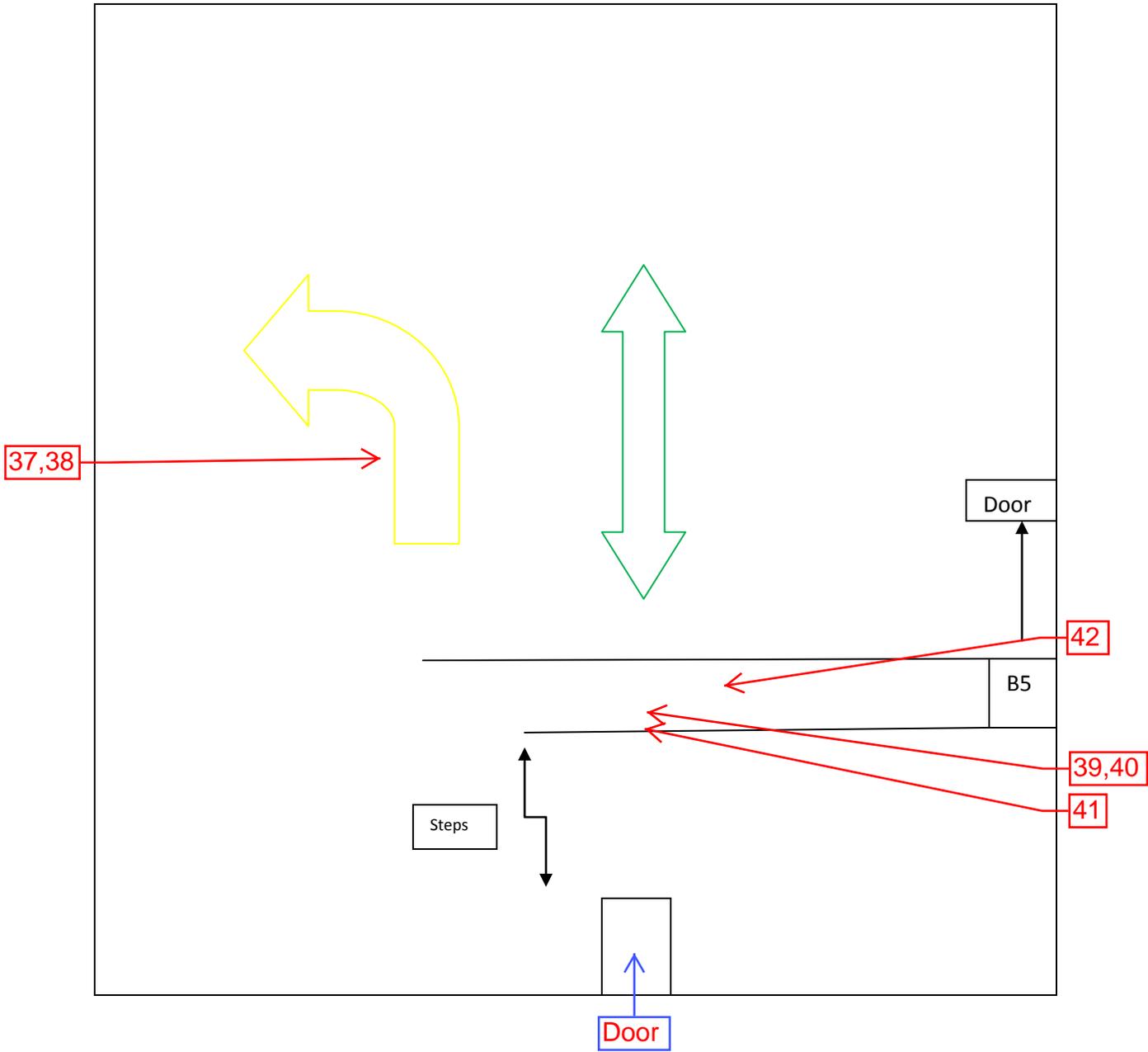
Main Mechanical Room

Room D



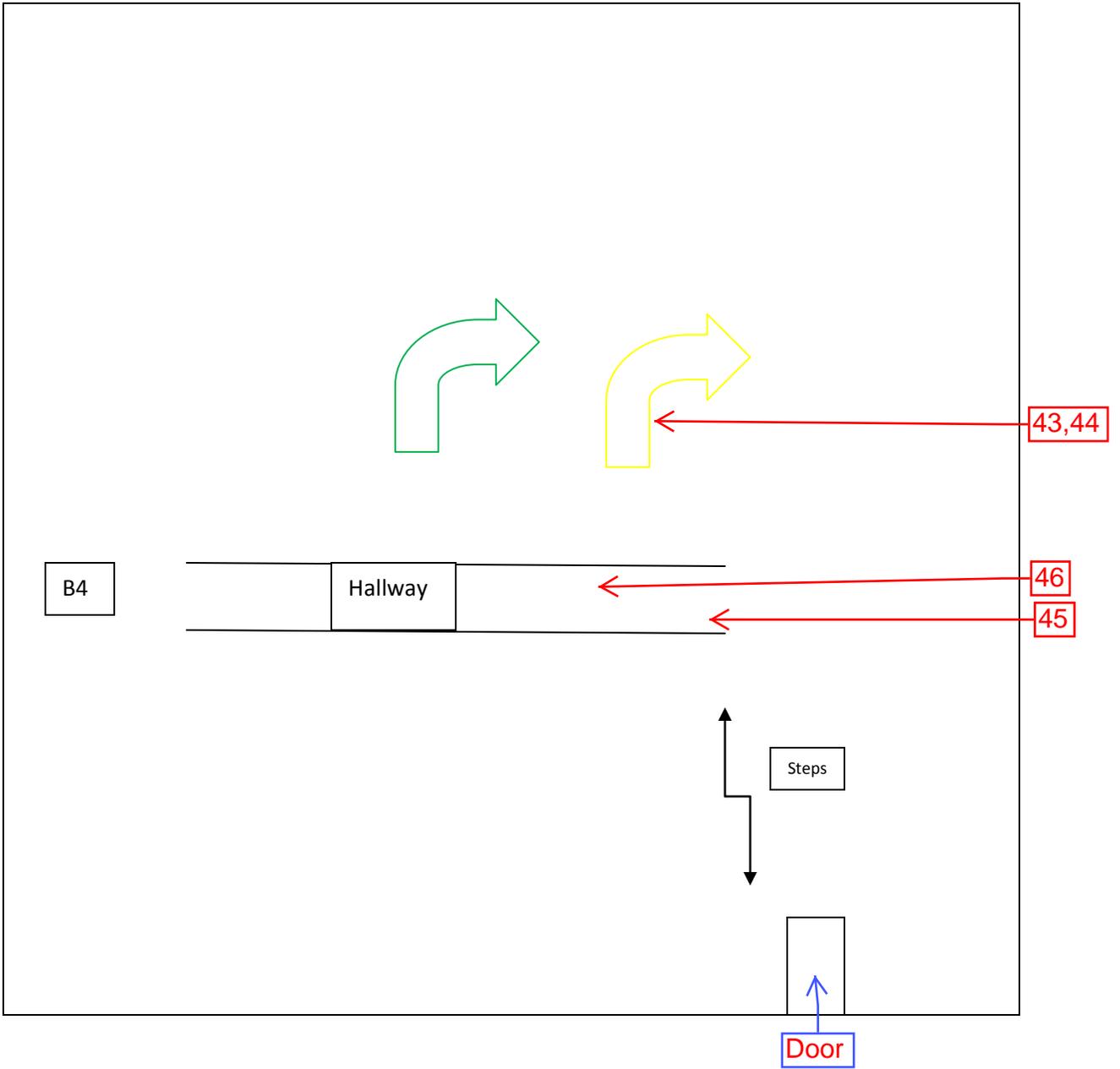
Mechanical Room

C5



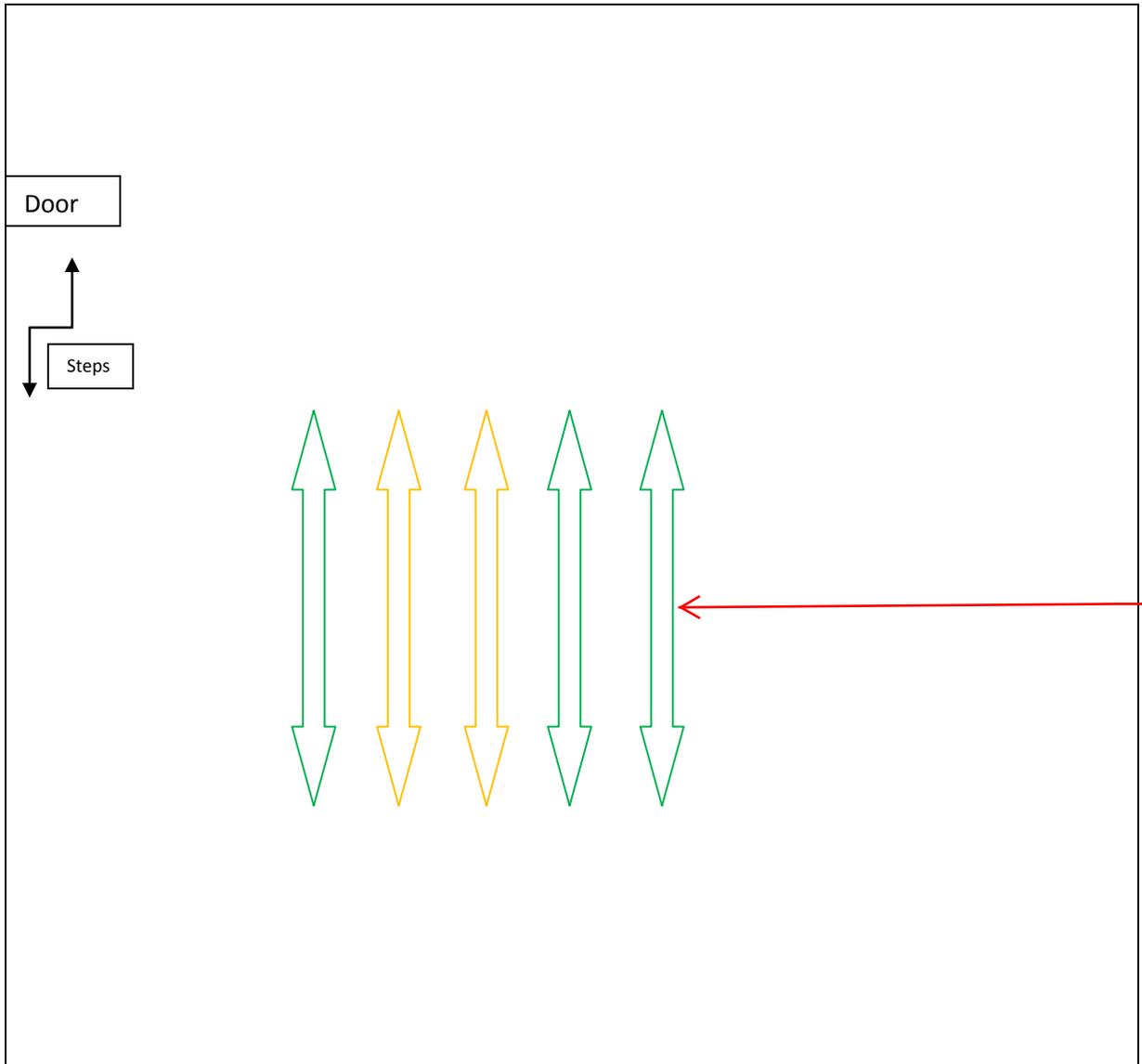
Mechanical Room

B5



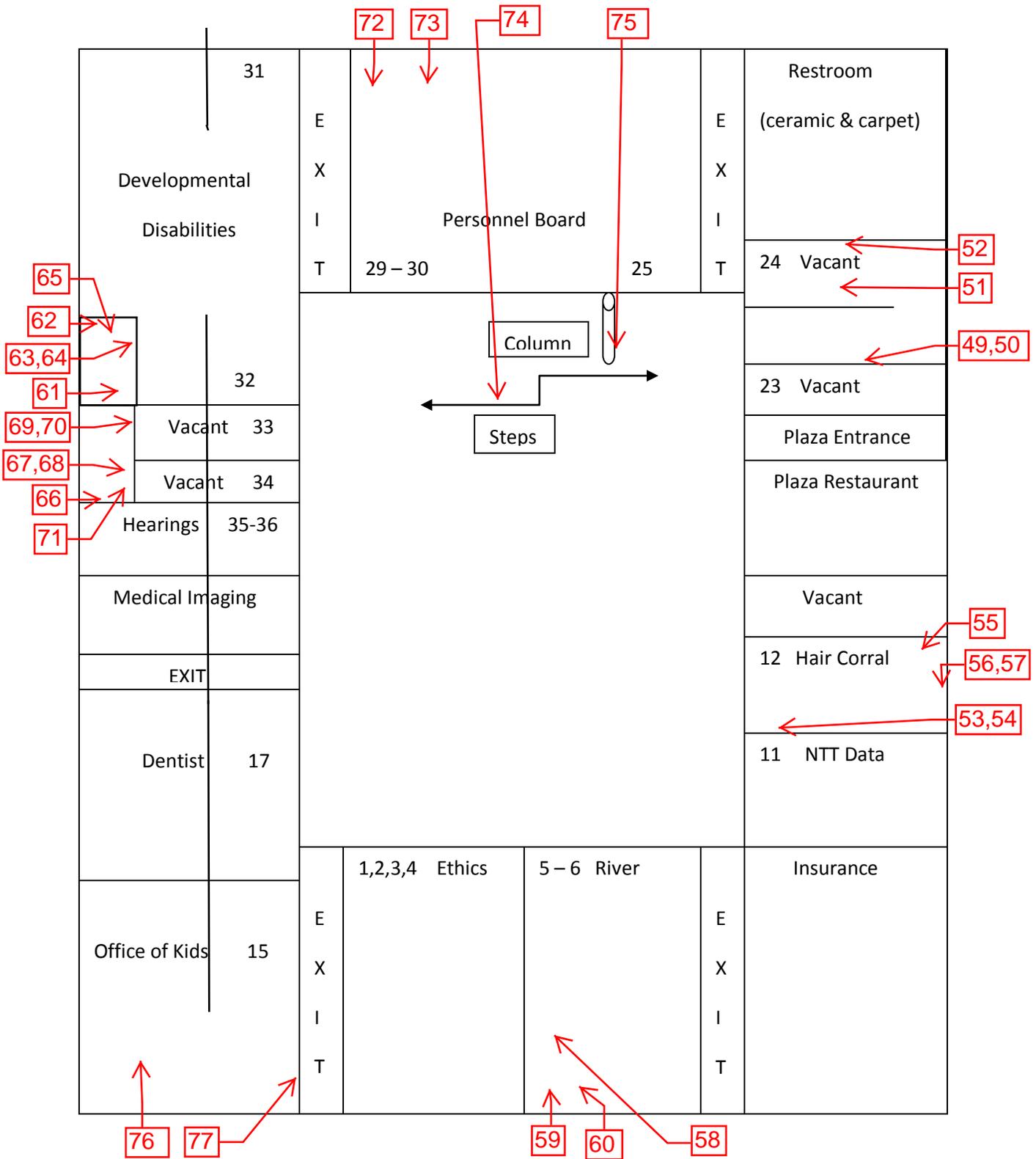
Mechanical Room

B4



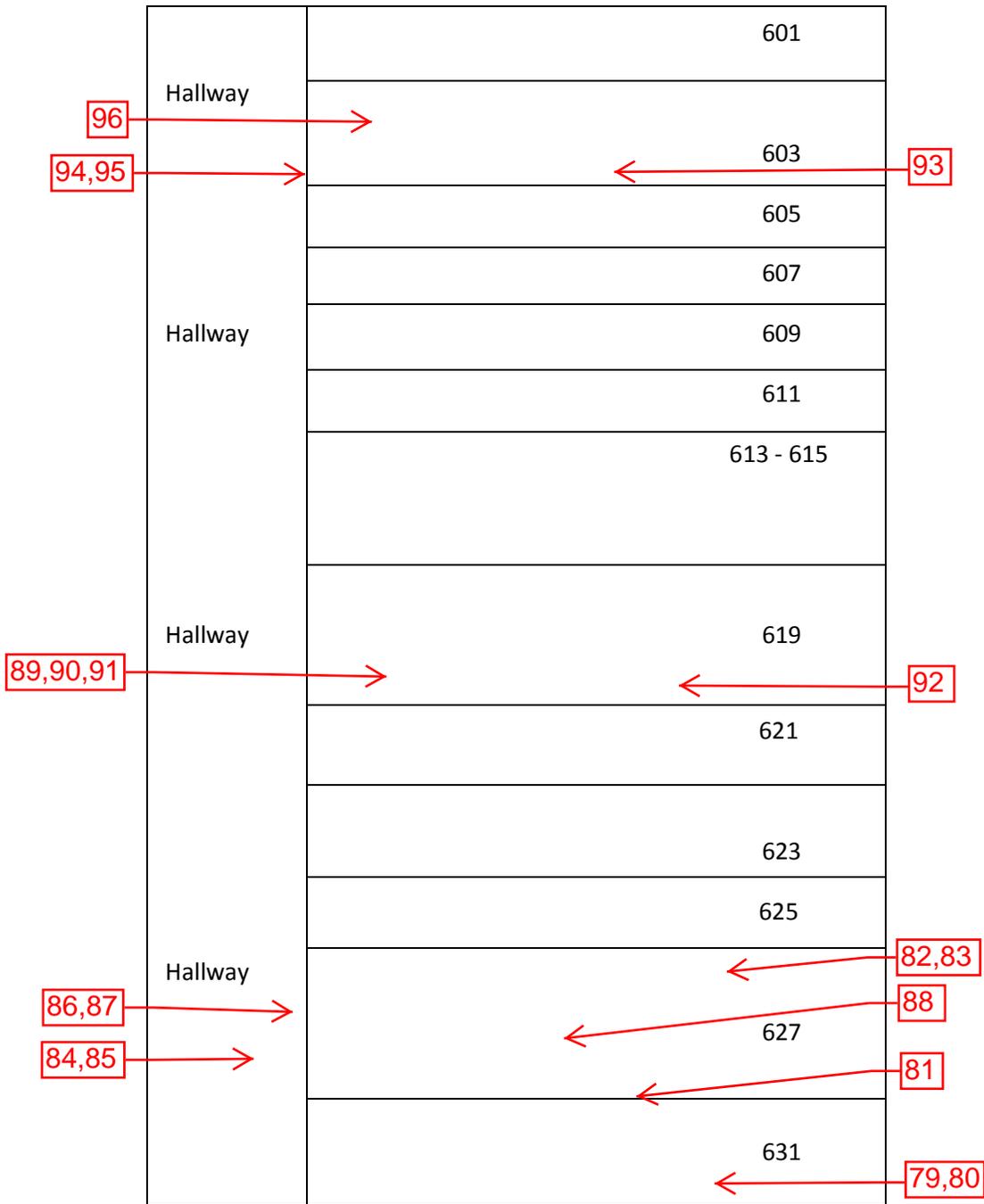
Mechanical Room

C4

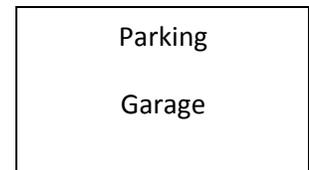


Capital Plaza

Offices & Shops



Wilkinson Street Offices



78

Photographic Journal



Sample 1
Pipe wrap
Chilled Water Return



Sample 2
Foam insulation
Chilled Water Return



Sample 3
Foam insulation
Chiller #1/Switch #1



Sample 4
Cloth
Air handler fan V-3



Sample 5 & 6
Pipe wrap & insulation
Heating Water Supply



Sample 7
T wrap
Heating Water Supply



Sample 8 & 9
Pipe elbow wrap & mud packing
Chilled Water Supply



Sample 10 & 11
Pipe wrap & mud packing
Chilled Water Supply



Sample 12, 13, & 14
Pipe wrap, 2nd layer wrap
and insulation
Chilled Water Supply



Sample 15 & 16
Pipe wrap & mud packing
Heating Water Return



Sample 17 & 18
Pipe wrap & mud packing
Chilled Water Return



Sample 19 & 20
Pipe wrap & packing mud
Civic Center orange pipe



Sample 21
Tile
Bathroom



Sample 22 & 23
Pipe wrap & insulation
Green pipe return



Sample 24 & 25
Pipe wrap & insulation
Orange pipe



Sample 26 & 27
Pipe wrap & insulation
ETEC 2554 elbow



Sample 28 & 29
Pipe wrap & insulation
Chilled Water Return



Sample 30 & 31
Pipe wrap & insulation
Hot Water Return



Sample 32, 33 & 34
Pipe wrap, mud & insulation
Pipe elbow



Sample 35 & 36
Pipe wrap & insulation
Pipe elbow



Sample 37 & 38
Pipe wrap & mud
Heating Water Supply



Sample 39 & 40
Floor tile & mastic



Sample 41
Baseboard mastic



Sample 42
Ceiling tile



Sample 43 & 44
Pipe wrap & insulation
Heating Water



Sample 45
Floor tile & mastic



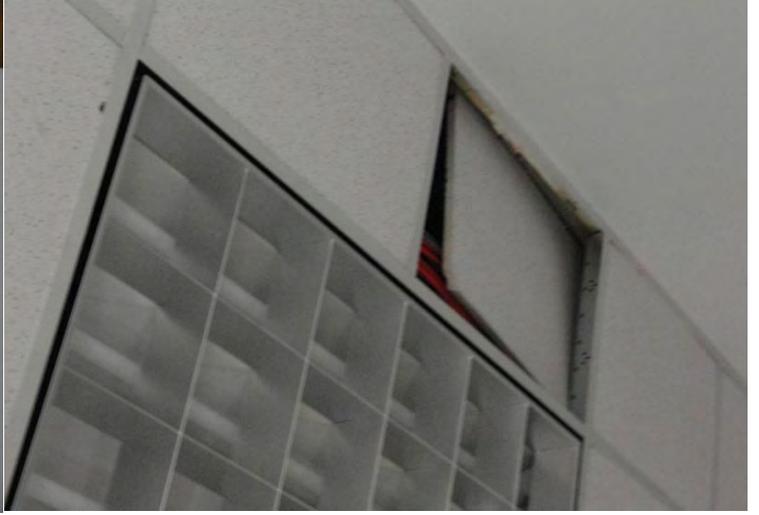
Sample 46
Ceiling tile



Sample 47 & 48
Pipe wrap & mud
Chilled Water Supply



Sample 49 & 50
Wall mud
Dry wall



Sample 51
Ceiling tile



Sample 52
Baseboard mastic



Sample 53 & 54
Floor tile - black
Floor tile - white



Sample 55
Ceiling tile



Sample 58
Floor tile - gray



Sample 60
Ceiling tile



Sample 61
Floor tile - tan



Sample 62
Baseboard mastic



Sample 63 & 64
Dry wall
Wall mud



Sample 65
Ceiling tile



Sample 66
Wall baseboard mastic



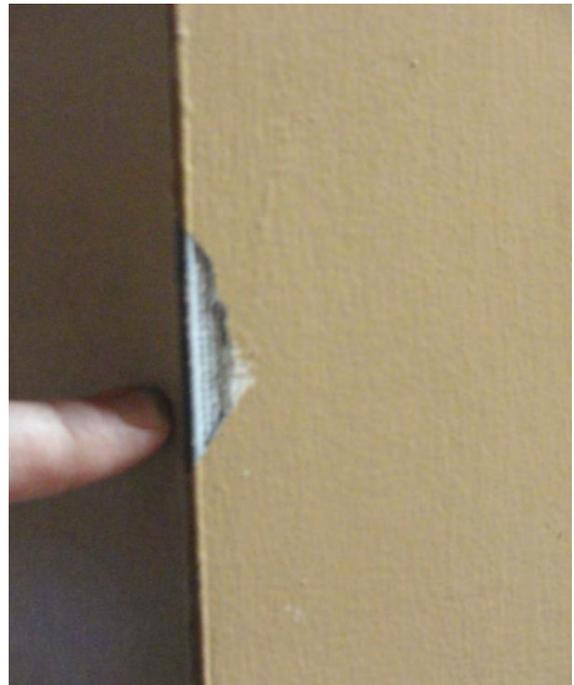
Sample 67
Floor mastic



Sample 68
Floor tile



Sample 69
Dry wall



Sample 70
Wall mud



Sample 71
Ceiling tile



Sample 72
Floor tile



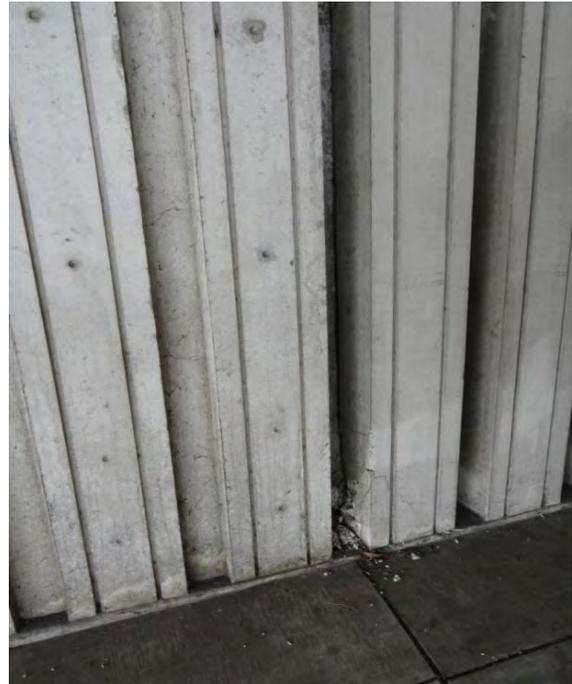
Sample 73
Floor tile



Sample 74
Step concrete



Sample 75
Concrete column



Sample 78
Parking garage concrete



Sample 79
Floor tile



Sample 80
Floor mastic



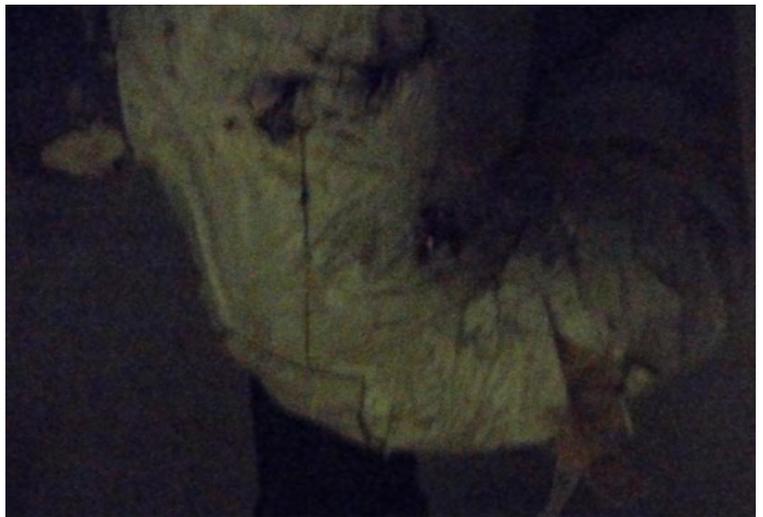
Sample 81
Wall mud



Sample 82 & 83
Floor tile & mastic



Sample 86
Pipe wrap



Sample 87
Pipe run insulation



Sample 88
Dry wall



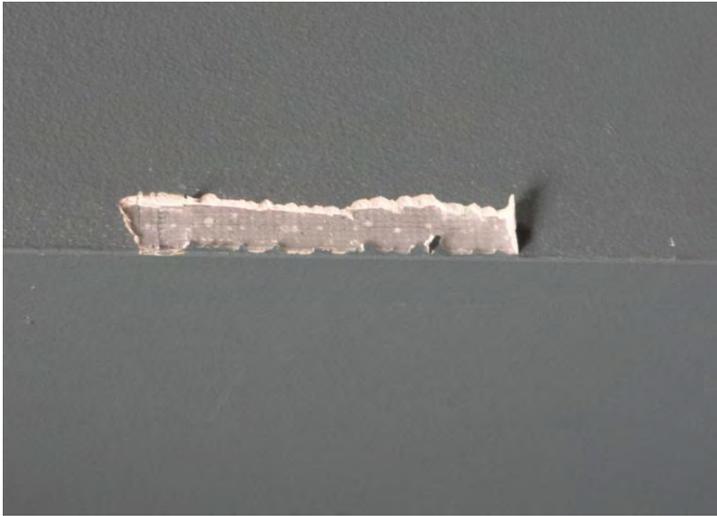
Sample 89, 90 & 91
Floor tile, mastic and baseboard mastic



Sample 92
Ceiling tile



Sample 93
Ceiling tile



Sample 94
Wall mud



Sample 95
Dry wall



Sample 96
Floor tile & mastic

332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133(502) 495-1212
Fax: (502) 491-7111**BULK SAMPLE ASBESTOS ANALYSIS**

Analysis # # 04055 Address: 500 Metro Street
 Client Name: State Of Kentucky Frankfort, KY
 Sampled By: Bob Keiser (Capital Plaza Area)

Number	Color	% FIBROUS ASBESTOS						% NON-ASBESTOS FIBERS			
		Layered	Fibrous	Chrysotile	Amosite	crocidolite	Others	Cellulose	Fiberglass	Syn. Fiber	Other/Mat.
# 1	Green	Yes	No				None	30%	15%		55%
# 2	Yellow	Yes	Yes				None		99%		1%
# 3	Black	Yes	No				None				100%
# 4	White	Yes	No	25%				60%			15%
# 5	White	Yes	Yes				None	55%	20%		25%
# 6	Yellow	Yes	Yes				None		97%		3%
# 7	White	Yes	Yes				None	92%			8%
# 8	White	Yes	No				None	3%	92%		5%
# 9	White	Yes	Yes	8%				7%	5%		80%
# 10	White	Yes	No				None	5%	90%		5%
# 11	White	Yes	Yes	3%				22%			75%
# 12	Green	Yes	No				None	33%	12%		55%
# 13	White	Yes	No				None	32%	15%		53%
# 14	Yellow	Yes	Yes				None		99%		1%
# 15	Yellow	Yes	No				None	30%	12%		58%
# 16	Gray	Yes	Yes	3%				2%	20%		75%
# 17	Green	Yes	No				None	33%	22%		45%
# 18	Gray	Yes	Yes	3%				5%			92%
# 19	Orange	Yes	No				None	30%	15%		55%
# 20	White	Yes	Yes	3%				12%	20%		65%

Methodology : EPA Method 600/R-93-116

Page # 1

Date Analyzed : 5-Apr-17

Analyst : Winterford Mensah

Reviewed By: 
Signature

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AIHA # 102459

AJHA #1 02459

332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133

(502) 495-1212

Fax: (502) 491-7111

BULK SAMPLE ASBESTOS ANALYSIS

Analysis # # 04055 Address: 500 Metro Street
 Client Name: State Of Kentucky Frankfort, KY
 Sampled By: Bob Keiser (Capital Plaza Area)

Number	Color			% FIBROUS ASBESTOS				% NON-ASBESTOS FIBERS			
		Layered	Fibrous	Chrysotile	Amosite	crocidolite	Others	Cellulose	Fiberglass	Syn. Fiber	Other/Mat.
# 21	Cream	Yes	No				None	2%			98%
# 22	Green	Yes	No				None	30%	15%		55%
# 23	Yellow	Yes	Yes				None		99%		1%
# 24	Orange	Yes	No				None	85%			15%
# 25	Yellow	Yes	Yes				None		97%		3%
# 26	White	Yes	No				None	93%			7%
# 27	White	Yes	Yes	5%				3%	12%		80%
# 28	Green	Yes	No				None	30%	8%		62%
# 29	Gray	Yes	Yes	5%				3%	15%		77%
# 30	Orange	Yes	No				None	32%	8%		60%
# 31	White	Yes	Yes	3%				5%	20%		72%
# 32	Green	Yes	No				None	32%	18%		50%
# 33	Gray	Yes	Yes	5%				3%	22%		70%
# 34	Yellow	Yes	Yes				None		97%		3%
# 35	Orange	Yes	No				None	75%			25%
# 36	Yellow	Yes	Yes				None		99%		1%
# 37	Yellow	Yes	No				None	30%	8%		62%
# 38	White	Yes	Yes	5%				2%	23%		70%
# 39	Gray	Yes	No				None	3%			97%
# 40	Black	Yes	No	3%				2%			95%

Methodology : EPA Method 600/R-93-116

Page # 2

Date Analyzed : 5-Apr-17

Analyst : Winterford Mensah

Reviewed By: 
Signature

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AIHA # 102459

AJHA #1 02459

MRS, INC.

MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133

Phone # : (502) 495-1212
E-Mail Address: CEOMRSInc@AOL.Com

Client:	<u>State Of Kentucky</u>	Project No:	<u># 0473</u>
Address:	<u>Division Of Engineering & Contract Administration 403 Wapping Street Frankfort, Kentucky - 40601</u>	Sample ID:	<u># 40</u>
		Sampled:	<u>3-Apr-17</u>
		Received:	<u>5-Apr-17</u>
		Analyzed:	<u>7-Apr-17 - Point Count -</u>
	<u>Attn : Maziar Torabi</u>		

Bulk Sample Analysis

Sampled By :	<u>Bob Keiser - Lee Engineering, LLC</u>
Facility/Location:	<u>Capital Plaza Area - 500 Mero Street, Frankfort, KY -</u>
Field Description:	<u>B5 Floor Mastic - Black</u>
Laboratory Description:	<u>Soft Black Material</u>
	<u> </u>
	<u> </u>
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>
	<u> </u>
Non-Asbestos Fibrous Materials :	
	<u>Cellulose 0.25 %</u>
	<u>Binders (Tar) 99.25 %</u>
	<u> </u>
Remarks:	<u>The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.</u>
Analyst:	<u>Winterford Mensah</u>
Reviewed By:	<u> Signature</u>

AIHA #102459

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AIHA #102459

/

AIHA #102459

332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133

(502) 495-1212

Fax: (502) 491-7111

BULK SAMPLE ASBESTOS ANALYSIS

Analysis # # 04055 Address: 500 Metro Street
 Client Name: State Of Kentucky Frankfort, KY
 Sampled By: Bob Keiser (Capital Plaza Area)
 45A = Floor Tile/ 45B = Mastic Under Floor Tile

Number	Color	Layered	Fibrous	% FIBROUS ASBESTOS				% NON-ASBESTOS FIBERS			
				Chrysotile	Amosite	crocidolite	Others	Cellulose	Fiberglass	Syn. Fiber	Other/Mat.
# 41	Brown	Yes	No				None	3%			97%
# 42	White	Yes	Yes				None	55%	40%		5%
# 43	Yellow	Yes	No				None	78%			22%
# 44	Yellow	Yes	Yes				None		98%		2%
# 45 A	Brown	Yes	No				None	2%			98%
# 45 B	Black	Yes	No	3%				2%			95%
# 46	White	Yes	Yes				None	2%	95%		3%
# 47	Green	Yes	No				None	30%	8%		62%
# 48	Gray	Yes	Yes	3%				2%	15%		80%
# 49	White	Yes	Yes				None	12%			88%
# 50	White	Yes	Yes				None	33%			67%
# 51	White	Yes	Yes				None	52%	40%		8%
# 52	Tan	Yes	No				None	3%			97%
# 53	Black	Yes	No				None	2%			98%
# 54	White	Yes	No				None	5%			95%
# 55	White	Yes	Yes				None	53%	42%		5%
# 56	White	Yes	Yes				None	8%			92%
# 57	White	Yes	Yes				None	35%			65%
# 58	Gray	Yes	No				None	3%			97%
# 59	White	Yes	No				None	3%			97%

Methodology : EPA Method 600/R-93-116

Page # 3

Date Analyzed : 6-Apr-17

Analyst : Winterford Mensah

Reviewed By: 
Signature

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AIHA # 102459

AJHA #1 02459

MRS, INC.*MRS, Inc. Analytical Laboratory Division*332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133Phone #: (502) 495-1212
E-Mail Address: CEOMRSInc@AOL.Com

Client:	<u>State Of Kentucky</u>	Project No:	<u># 0473</u>
Address:	<u>Division Of Engineering & Contract Administration 403 Wapping Street Frankfort, Kentucky - 40601</u>	Sample ID:	<u># 45 B</u>
		Sampled:	<u>3-Apr-17</u>
		Received:	<u>5-Apr-17</u>
		Analyzed:	<u>7-Apr-17 - Point Count -</u>
	<u>Attn : Maziar Torabi</u>		

Bulk Sample Analysis

Sampled By	: <u>Bob Keiser - Lee Engineering, LLC</u>
Facility/Location:	<u>Capital Plaza Area - 500 Mero Street, Frankfort, KY -</u>
Field Description:	<u>B4 Mastic Under Floor Tile</u>
Laboratory Description:	<u>Soft Black Material</u>
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>
Non-Asbestos Fibrous Materials :	
	<u>Cellulose 0.25 %</u>
	<u>Binders (Tar) 99.25 %</u>
Remarks: The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.	
Analyst:	<u>Winterford Mensah</u>
Reviewed By:	<u></u> Signature

AIHA #102459

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AIHA #102459

/

AIHA #102459

332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133

(502) 495-1212

Fax: (502) 491-7111

BULK SAMPLE ASBESTOS ANALYSIS

Analysis # # 04055 Address: 500 Metro Street
 Client Name: State Of Kentucky Frankfort, KY
 Sampled By: Bob Keiser (Capital Plaza Area)

Number	Color			% FIBROUS ASBESTOS				% NON-ASBESTOS FIBERS			
		Layered	Fibrous	Chrysotile	Amosite	crocidolite	Others	Cellulose	Fiberglass	Syn. Fiber	Other/Mat.
# 60	White	Yes	Yes				None	52%	40%		8%
# 61	Tan	Yes	No				None	3%			97%
# 62	Brown	Yes	No				None	2%			98%
# 63	White	Yes	Yes				None	32%			68%
# 64	White	Yes	Yes				None	7%			93%
# 65	White	Yes	Yes				None	55%	40%		5%
# 66	Brown	Yes	No				None	3%			97%
# 67	Black	Yes	No	3%				2%			95%
# 68	Gray	Yes	No				None	2%			98%
# 69	White	Yes	Yes				None	32%			68%
# 70	White	Yes	Yes				None	7%			93%
# 71	White	Yes	Yes				None	52%	40%		8%
# 72	Tan	Yes	No				None	3%			97%
# 73	Cream	Yes	No				None	3%			97%
# 74	Gray	Yes	No				None				100%
# 75	Gray	Yes	No				None				100%
# 76	White	Yes	Yes				None	53%	42%		5%
# 77	Brown	Yes	No				None	2%			98%
# 78	Gray	Yes	No				None				100%
# 79	Gray	Yes	No				None	2%			98%

Methodology : EPA Method 600/R-93-116

Page # 4

Date Analyzed : 6-Apr-17

Analyst : Winterford Mensah

Reviewed By:  Signature

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AIHA # 102459

AJHA #1 02459

MRS, INC.*MRS, Inc. Analytical Laboratory Division*332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133Phone # : (502) 495-1212
E-Mail Address: CEOMRSInc@AOL.Com

Client:	<u>State Of Kentucky</u>	Project No:	<u># 0473</u>
Address:	<u>Division Of Engineering & Contract Administration 403 Wapping Street Frankfort, Kentucky - 40601</u>	Sample ID:	<u># 67</u>
		Sampled:	<u>3-Apr-17</u>
		Received:	<u>5-Apr-17</u>
		Analyzed:	<u>7-Apr-17 - Point Count -</u>
	<u>Attn : Maziar Torabi</u>		

Bulk Sample Analysis

Sampled By :	<u>Bob Keiser - Lee Engineering, LLC</u>
Facility/Location:	<u>Capital Plaza Area - 500 Mero Street, Frankfort, KY -</u>
Field Description:	<u>Plaza - Floor # 34 - Mastic Under Floor Tile</u>
Laboratory Description:	<u>Soft Black Material</u>
	<u> </u>
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>
	<u> </u>
Non-Asbestos Fibrous Materials :	
	<u>Cellulose 0.25 %</u>
	<u>Binders (Tar) 99.25 %</u>
Remarks:	The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.
Analyst:	<u>Winterford Mensah</u>
Reviewed By:	<u> Signature</u>

AIHA #102459

/

AIHA #102459

/

AIHA #102459

332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133

(502) 495-1212

Fax: (502) 491-7111

BULK SAMPLE ASBESTOS ANALYSIS

Analysis # # 04055 Address: 500 Metro Street
 Client Name: State Of Kentucky Frankfort, KY
 Sampled By: Bob Keiser (Capital Plaza Area)
 96 A = Floor Tile / 96 B = Mastic Under The Floor Tile

Number	Color	Layered	Fibrous	% FIBROUS ASBESTOS				% NON-ASBESTOS FIBERS			
				Chrysotile	Amosite	crocidolite	Others	Cellulose	Fiberglass	Syn. Fiber	Other/Mat.
# 80	Black	Yes	No	3%				2%			95%
# 81	White	Yes	Yes				None	35%			65%
# 82	Gray	Yes	No				None	2%			98%
# 83	Black	Yes	No	3%				2%			95%
# 84	Gray	Yes	No				None	3%			97%
# 85	Black	Yes	No	3%				2%			95%
# 86	White	Yes	Yes				None	15%	70%		15%
# 87	Yellow	Yes	Yes				None		99%		1%
# 88	White	Yes	Yes				None	35%			65%
# 89	Cream	Yes	No				None	3%			97%
# 90	Black	Yes	No	3%				2%			95%
# 91	Tan	Yes	No				None	3%			97%
# 92	White	Yes	Yes				None	57%	38%		5%
# 93	White	Yes	Yes				None	55%	37%		8%
# 94	White	Yes	Yes				None	15%			85%
# 95	White	Yes	Yes				None	33%			67%
# 96 A	Cream	Yes	No				None	3%			97%
# 96 B	Black	Yes	No	3%				2%			95%

Methodology : EPA Method 600/R-93-116

Page # 5

Date Analyzed : 6-Apr-17

Analyst : Winterford Mensah

Reviewed By: 
Signature

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AIHA # 102459

AJHA #1 02459

MRS, INC.

MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133

Phone # : (502) 495-1212
E-Mail Address: CEOMRSInc@AOL.Com

Client:	<u>State Of Kentucky</u>	Project No:	<u># 0473</u>
Address:	<u>Division Of Engineering & Contract Administration 403 Wapping Street Frankfort, Kentucky - 40601</u>	Sample ID:	<u># 80</u>
		Sampled:	<u>3-Apr-17</u>
		Received:	<u>5-Apr-17</u>
		Analyzed:	<u>7-Apr-17 - Point Count -</u>
	<u>Attn : Maziar Torabi</u>		

Bulk Sample Analysis

Sampled By :	<u>Bob Keiser - Lee Engineering, LLC</u>
Facility/Location:	<u>Capital Plaza Area - 500 Mero Street, Frankfort, KY -</u>
Field Description:	<u>Tower - 631 Floor - Mastic Under Floor Tile -</u>
Laboratory Description:	<u>Soft Black Material</u>
	<u> </u>
	<u> </u>
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>
	<u> </u>
Non-Asbestos Fibrous Materials :	
	<u>Cellulose 0.25 %</u>
	<u>Binders (Tar) 99.25 %</u>
Remarks:	<u>The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.</u>
Analyst:	<u>Winterford Mensah</u>
Reviewed By:	<u> Signature</u>

AIHA #102459

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AIHA #102459

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AIHA #102459

MRS, INC.*MRS, Inc. Analytical Laboratory Division*332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133Phone # : (502) 495-1212
E-Mail Address: CEOMRSInc@AOL.Com

Client:	<u>State Of Kentucky</u>	Project No:	<u># 0473</u>
Address:	<u>Division Of Engineering & Contract Administration 403 Wapping Street Frankfort, Kentucky - 40601</u>	Sample ID:	<u># 85</u>
		Sampled:	<u>3-Apr-17</u>
		Received:	<u>5-Apr-17</u>
		Analyzed:	<u>7-Apr-17 - Point Count -</u>
	<u>Attn : Maziar Torabi</u>		

Bulk Sample Analysis

Sampled By :	<u>Bob Keiser - Lee Engineering, LLC</u>
Facility/Location:	<u>Capital Plaza Area - 500 Mero Street, Frankfort, KY -</u>
Field Description:	<u>Hall - 627 Floor - Mastic Under The Floor Tile</u>
Laboratory Description:	<u>Soft Black Material</u>
	<u> </u>
	<u> </u>
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>
	<u> </u>
Non-Asbestos Fibrous Materials :	
	<u>Cellulose 0.25 %</u>
	<u>Binders (Tar) 99.25 %</u>
	<u> </u>
Remarks:	<u>The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.</u>
Analyst:	<u>Winterford Mensah</u>
Reviewed By:	<u> Signature</u>

AIHA #102459

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AIHA #102459

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AIHA #102459

MRS, INC.

MRS, Inc. Analytical Laboratory Division

332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133

Phone # : (502) 495-1212
E-Mail Address: CEOMRSInc@AOL.Com

Client:	<u>State Of Kentucky</u>	Project No:	<u># 0473</u>
Address:	<u>Division Of Engineering & Contract Administration 403 Wapping Street Frankfort, Kentucky - 40601</u>	Sample ID:	<u># 90</u>
		Sampled:	<u>3-Apr-17</u>
		Received:	<u>5-Apr-17</u>
		Analyzed:	<u>7-Apr-17 - Point Count -</u>
	<u>Attn : Maziar Torabi</u>		

Bulk Sample Analysis

Sampled By :	<u>Bob Keiser - Lee Engineering, LLC</u>				
Facility/Location:	<u>Capital Plaza Area - 500 Mero Street, Frankfort, KY -</u>				
Field Description:	<u>619 Floor - Mastic Under The Floor Tile</u>				
Laboratory Description:	<u>Soft Black Material</u>				
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>				
Non-Asbestos Fibrous Materials :	<table><tr><td><u>Cellulose</u></td><td><u>0.25 %</u></td></tr><tr><td><u>Binders (Tar)</u></td><td><u>99.25 %</u></td></tr></table>	<u>Cellulose</u>	<u>0.25 %</u>	<u>Binders (Tar)</u>	<u>99.25 %</u>
<u>Cellulose</u>	<u>0.25 %</u>				
<u>Binders (Tar)</u>	<u>99.25 %</u>				
Remarks:	<p>The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.</p>				
Analyst:	<u>Winterford Mensah</u>				
Reviewed By:	<u></u> Signature				

AIHA #102459

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AIHA #102459

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AIHA #102459

MRS, INC.*MRS, Inc. Analytical Laboratory Division*332 West Broadway / Suite # 902
Louisville, Kentucky - 40202 - 2133Phone # : (502) 495-1212
E-Mail Address: CEOMRSInc@AOL.Com

Client:	<u>State Of Kentucky</u>	Project No:	<u># 0473</u>
Address:	<u>Division Of Engineering & Contract Administration 403 Wapping Street Frankfort, Kentucky - 40601</u>	Sample ID:	<u># 96 B</u>
		Sampled:	<u>3-Apr-17</u>
		Received:	<u>5-Apr-17</u>
		Analyzed:	<u>7-Apr-17 - Point Count -</u>
	<u>Attn : Maziar Torabi</u>		

Bulk Sample Analysis

Sampled By	: <u>Bob Keiser - Lee Engineering, LLC</u>
Facility/Location:	<u>Capital Plaza Area - 500 Mero Street, Frankfort, KY -</u>
Field Description:	<u>603 Floor - Mastic Under The Floor Tile</u>
Laboratory Description:	<u>Soft Black Material</u>
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>
Non-Asbestos Fibrous Materials :	
	<u>Cellulose 0.25 %</u>
	<u>Binders (Tar) 99.25 %</u>
Remarks: The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.	
Analyst:	<u>Winterford Mensah</u>
Reviewed By:	<u></u> Signature

AIHA #102459

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AIHA #102459

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AIHA #102459

Asbestos Inspection Form and Chain of Custody

Project: <u>Capital Plaza Area</u> Date: <u>3-31-17</u> Address: <u>500 Mero Street, Frankfort</u> Sampled By: <u>Bob Keiser</u>	Lee Engineering, llc P.O. Box 500 Lawrenceburg, KY 40341 Ph (502)600-0016
---	--

Sample #	Room #	Floor #	Location	Matrix	Color	Size	Comments
1	D		chilled water return	wrap	green		green pipe
2	D		chilled water return	insul	yellow		green pipe
3	D		chiller #1 switch #1	foam insul	black		
4	D		air handler fan v-3	cloth	white/black		
5	D		heating water supply	wrap	white		
6	D		heating water supply	insul	yellow		
7	D		heating water supply	T wrap	tan		
8	D		chilled water supply	elbow wrap	white		
9	D		chilled water supply	elbow mud packing	white		hard packed elbow
10	D		chilled water supply	wrap	white		going into tunnel
11	D		chilled water supply	mud packing	white		going into tunnel
12	D		chilled water supply	wrap	green		green pipe elbow
13	D		chilled water supply	2nd layer wrap	white		green pipe elbow
14	D		chilled water supply	insul	yellow		green pipe elbow
15	D		heating water return	wrap	yellow		yellow pipe
16	D		heating water return	mud packing	gray		yellow pipe
17	D		chilled water return	wrap	green		green pipe
18	D		chilled water return	mud packing	gray		green pipe

Relinquished By: Signature	Received By: Signature 	Date & Time <u>04/05/17</u>
Relinquished By: Signature	Received By: Signature	Date & Time

Asbestos Inspection Form and Chain of Custody

Project: <u>Capital Plaza Area</u> Date: <u>3-31-17</u> Address: <u>500 Mero Street, Frankfort</u> Sampled By: <u>Bob Keiser</u>	Lee Engineering, llc P.O. Box 500 Lawrenceburg, KY 40341 Ph (502)600-0016
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Sample #	Room #	Floor #	Location	Matrix	Color	Size	Comments
19	D		civic center orange pipe	wrap	orange		orange pipe
20	D		civic center orange pipe	packing mud	gray		orange pipe
21	D		bathroom	tile	cream		
22	D		green pipe return	wrap	green	going	into tunnel
23	D		green pipe return	insul.	yellow	going	into tunnel
24	D		orange pipe	wrap	orange	going	into tunnel
25	D		orange pipe	insul	yellow	going	into tunnel
26	D		ETEC 2554 elbow	wrap	yellow		
27	D		ETEC 2554 elbow	insul	gray		
28	D		chilled water return	wrap	green		
29	D		chilled water return	insul	gray		
30	D		hot water return	wrap	orange		orange pipe
31	D		hot water return	insul	gray		orange pipe

Relinquished By: Signature	Received By: Signature <i>Winters</i>	Date & Time 04/05/17
Relinquished By: Signature	Received By: Signature	Date & Time

Asbestos Inspection Form and Chain of Custody

Project: <u>Capital Plaza Area</u> Date: <u>4-3-17</u> Address: <u>500 Mero Street, Frankfort</u> Sampled By: <u>Bob Keiser</u>	Lee Engineering, llc P.O. Box 500 Lawrenceburg, KY 40341 Ph (502)600-0016
--	--

Sample #	Room #	Floor #	Location	Matrix	Color	Size	Comments
32		C5	Pipe elbow	Pipe wrap	green		green pipe
33		C5	Pipe elbow	mud	gray		green pipe
34		C5	Pipe elbow	insul.	yellow		green pipe
35		C5	Pipe elbow	wrap	orange		orange pipe
36		C5	Pipe elbow	insul	yellow		orange pipe
37		B5	heating water supply	Wrap	yellow		yellow pipe
38		B5	heating water supply	mud	gray		yellow pipe
39		B5	floor	tile	gray		
40		B5	floor	mastic	black		
41		B5	wall	baseboard mastic	brown		
42		B5	ceiling	tile	white		
43		B4	heating water	wrap	yellow		yellow pipe
44		B4	heating water	insul	yellow		yellow pipe
45	A-B	B4	floor	tile + mastic	brown		
46		B4	ceiling	tile	white		
47		C4	chilled water supply	wrap	green		green pipe
48		C4	chilled water supply	mud	gray		green pipe
49	plaza	24	wall	mud	white		
50	plaza	24	wall	dry wall	white		
51	plaza	24	ceiling	tile	white		

Relinquished By: Signature	Received By: Signature <i>Winters</i>	Date & Time 4/05/17
Relinquished By: Signature	Received By: Signature	Date & Time

Asbestos Inspection Form and Chain of Custody

Project: <u>Capital Plaza Area</u>	Lee Engineering, llc P.O. Box 500 Lawrenceburg, KY 40341 Ph (502)600-0016
Date: <u>4-3-17</u>	
Address: <u>500 Mero Street, Frankfort</u>	
Sampled By: <u>Bob Keiser</u>	

Sample #	Room #	Floor #	Location	Matrix	Color	Size	Comments
52	plaza	24	wall	baseboard mastic	tan		
53	plaza	12	floor	tile	black		
54	plaza	12	floor	tile	white		
55	plaza	12	ceiling	tile	white		
56	plaza	12	wall	mud	white		
57	plaza	12	wall	drywall	white		
58	plaza	5	floor	tile	gray		
59	plaza	5	floor	tile	white		
60	plaza	5	ceiling	tile	white		
61	plaza	32	floor	tile	tan		
62	plaza	32	wall	baseboard mastic	brown		
63	plaza	32	wall	drywall	white		
64	plaza	32	wall	mud	white		
65	plaza	32	ceiling	tile	white		
66	plaza	34	wall	baseboard mastic	brown		
67	plaza	34	floor	mastic	black		
68	plaza	34	floor	tile	gray		
69	plaza	34	wall	drywall	white		
70	plaza	34	wall	mud	white		
71	plaza	34	ceiling	tile	white		

Relinquished By: Signature	Received By: Signature <i>Winter for Keiser</i>	Date & Time <u>4/05/17</u>
Relinquished By: Signature	Received By: Signature	Date & Time

Asbestos Inspection Form and Chain of Custody

Project: <u>Capital Plaza Area</u> Date: <u>4-3-17</u> Address: <u>500 Mero Street, Frankfort</u> Sampled By: <u>Bob Keiser</u>	Lee Engineering, llc P.O. Box 500 Lawrenceburg, KY 40341 Ph (502)600-0016
--	--

Sample #	Room #	Floor #	Location	Matrix	Color	Size	Comments
72	plaza	29	floor	tile	tan		
73	plaza	29	floor	tile	cream		
74	step		step	concrete	gray		
75	column		column	concrete	gray		
76	plaza	15	ceiling	tile	white		
77	plaza	15	wall	baseboard mastic	brown		
78	tower		Parking garage	concrete	gray		Under tower
79		631	floor	tile	gray		
80		631	floor	mastic	black		
81		627	wall	mud	white		
82		627	floor	tile	gray		
83		627	floor	mastic	black		
84	hall	627	floor	tile	gray		
85	hall	627	floor	mastic	black		
86	hall	627	pipe run	pipe wrap	white		
87	hall	627	pipe run	insul.	yellow		
88		627	wall	dry wall	white		
89		619	floor	tile	cream		
90		619	floor	mastic	black		
91		619	wall	baseboard mastic	tan		

Relinquished By: Signature	Received By: Signature <i>Hinton</i>	Date & Time 4/05/17
Relinquished By: Signature	Received By: Signature	Date & Time

Commonwealth of Kentucky

Department for Environmental Protection
Division for Air Quality

Jeffrey L. Lee

Has met the requirements of 401 KAR 58:005 and is accredited as an:

**Asbestos
Inspector**

Accreditation Number: **I16-07-2000**

Issue Date: **7/25/2016**

Expiration Date: **5/20/2017**

KENTUCKY DIVISION FOR
AIR QUALITY

Commonwealth of Kentucky

Department for Environmental Protection
Division for Air Quality

Jeffrey L. Lee

Has met the requirements of 401 KAR 58:005 and is accredited as an:

**Asbestos
Abatement Supervisor**

Accreditation Number: **S16-07-1999**

Issue Date: **7/25/2016**

Expiration Date: **5/17/2017**

KENTUCKY DIVISION FOR
AIR QUALITY

Commonwealth of Kentucky

Department for Environmental Protection
Division for Air Quality

Robert W. Keiser

Has met the requirements of 401 KAR 58:005 and is accredited as an:

**Asbestos
Inspector**

Accreditation Number: **I16-07-2002**

Issue Date: **7/25/2016**

Expiration Date: **7/11/2017**

KENTUCKY DIVISION FOR
AIR QUALITY

Commonwealth of Kentucky

Department for Environmental Protection
Division for Air Quality

Robert W. Keiser

Has met the requirements of 401 KAR 58:005 and is accredited as an:

**Asbestos
Abatement Supervisor**

Accreditation Number: **S16-07-2001**

Issue Date: **7/25/2016**

Expiration Date: **7/12/2017**

KENTUCKY DIVISION FOR
AIR QUALITY

Lee Engineering, LLC
Environment & Infrastructure

P.O. Box 500
Lawrenceburg, KY 40342
(502) 859-0190 ♦ (502) 859-3000 fax
jlleeng@bellsouth.net