



**U.S. Army Corps of Engineers
Philadelphia District**

***Volume III - Building Reports for a
Comprehensive Asbestos
Survey in Various Buildings at
Fort Monmouth, New Jersey***

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C55

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BUILDING REPORTS

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1107

OFFICE BUILDING

1107

OFFICE BUILDING

1107.1 GENERAL

Building 1107 was surveyed by WESTON technicians on 25 January 1990.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze four samples of suspect material collected from the building. Of these samples, four were found to be asbestos-containing materials (ACM). Table 1107.1 lists the analytical results for the bulk samples.

1107.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1107 are presented in Table 1107.1. An area-by-area inventory of ACM is provided in Table 1107.2 and 1107.3 "Other Asbestos-Containing Materials," listed in Table 1107.3, are materials which do not match the standard caption categories listed in Table 1107.2. A prioritized listing of exposure assessments is presented in Table 1107.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1107.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1107.2 and 1107.5.

1107.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o The heater room in Building 1107 qualifies for the Army Asbestos Deficiency Abatement Projects.
- o Other asbestos-containing materials should be labeled under O&M Programs.

TABLE 1107.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1107, OFFICES
 TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AU808	1ST FL OFFICE, S, BELOW CEILING	FLOOR TILE	TAN, OTH, FLOOR TILE, HORIZONTAL	2	-	-	NO
AU809	HEATER ROOM, E, BELOW CEILING	EXPANSION JOINT(S)	GRAY, OTH, EXP JOINT, HORIZONTAL	70	-	-	NO
AU810	HEATER ROOM, E, BELOW CEILING	DUPLICATE SAMPLE	GRAY, OTH, EXP JOINT, HORIZONTAL	70	-	-	NO
AU811	HEATER ROOM, E, BELOW CEILING	DEBRIS	GRAY, OTH, DEBRIS, HORIZONTAL	50	-	-	NO

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C - Center
 N - North
 E - East
 S - South
 W - West
 NE - Northeast
 NW - Northwest
 SE - Southeast
 SW - Southwest

System Codes

STM - Steam
 CHW - Chilled Water
 HHW - Heating Hot Water
 DOM - Domestic Water
 OTH - Other
 UNK - Unknown

Asbestos Types

CH - Chrysotile
 AM - Amosite
 OT - Other

TABLE 1107.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1107, OFFICES

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
1ST FL OFFICE	-	-	-	-	-	-	-	-	-	1.80	-	-	-
2ND FL BOY SCOUT OFF	-	-	-	-	-	-	-	-	-	1.90	-	-	-
HEATER ROOM	-	-	-	-	-	-	-	-	-	-	-	-	*
LATRINE	-	-	-	-	-	-	-	-	-	0.10	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	3.80	-	-	*

* Other material present in various units of measure. See Table 1107.3 for material descriptions.

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

TABLE 1107.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 1107, OFFICES

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
HEATER ROOM	EXPANSION JOINT	3 (EA)
HEATER ROOM	DEBRIS (AIRCELL)	0.03 (MSF)

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

1107-4

TABLE 1107.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1107, OFFICES

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AU811	HEATER ROOM	DEBRIS	C	3.750E03	3	2	2	2	1	5.00	50
AU809	HEATER ROOM	EXPANSION JOINTS	C	1.375E03	2	2	1	3	1	5.00	70

Priority Index Codes

A [-] Long Term Corrective Measure

B [-] Review Management Special Considerations/Remarks

C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [-] Material Friability

2 [-] Occupant Accessibility

3 [-] Material Condition

4 [-] Level Of Activity

5 [-] Number Of Assigned Occupants

TABLE 1107.5

COST ESTIMATE* - BUILDING 1107, OFFICES
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	TOTAL
Pipe Fittings (EA)						
<4"	70.30	-	-	-	-	-
4-8"	85.80	-	-	-	-	-
9-14"	147.00	-	-	-	-	-
>14"	216.00	-	-	-	-	-
Pipe Runs (LF)						
<4"	26.50	-	-	-	-	-
4-8"	30.50	-	-	-	-	-
9-14"	42.50	-	-	-	-	-
>14"	60.80	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-
Floor Tile (SF)	5.60	10.1	10.6	-	0.6	21.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-
Other		-	-	1.5	-	1.5
SUBTOTAL		10.1	10.6	1.5	0.6	22.8
Difficulty Allowance		4.7	0.2	0.3	-	5.3
SUBTOTAL		14.8	10.9	1.8	0.6	28.0
Decontamination Units		1.6	1.6	1.6	1.6	6.2
Mobilization		1.1	1.1	1.1	1.1	4.2
SUBTOTAL		17.4	13.5	4.4	3.2	38.4
Contingency @ 15.00%		2.6	2.0	0.7	0.5	5.8
SUBTOTAL		20.0	15.5	5.1	3.6	44.2
Design Fee @ 6.00%		1.2	0.9	0.3	0.2	2.7
SUBTOTAL		21.2	16.4	5.4	3.9	46.8
Air Monitoring		1.2	1.2	1.2	1.2	4.7
TOTAL		22.4	17.6	6.5	5.0	51.5

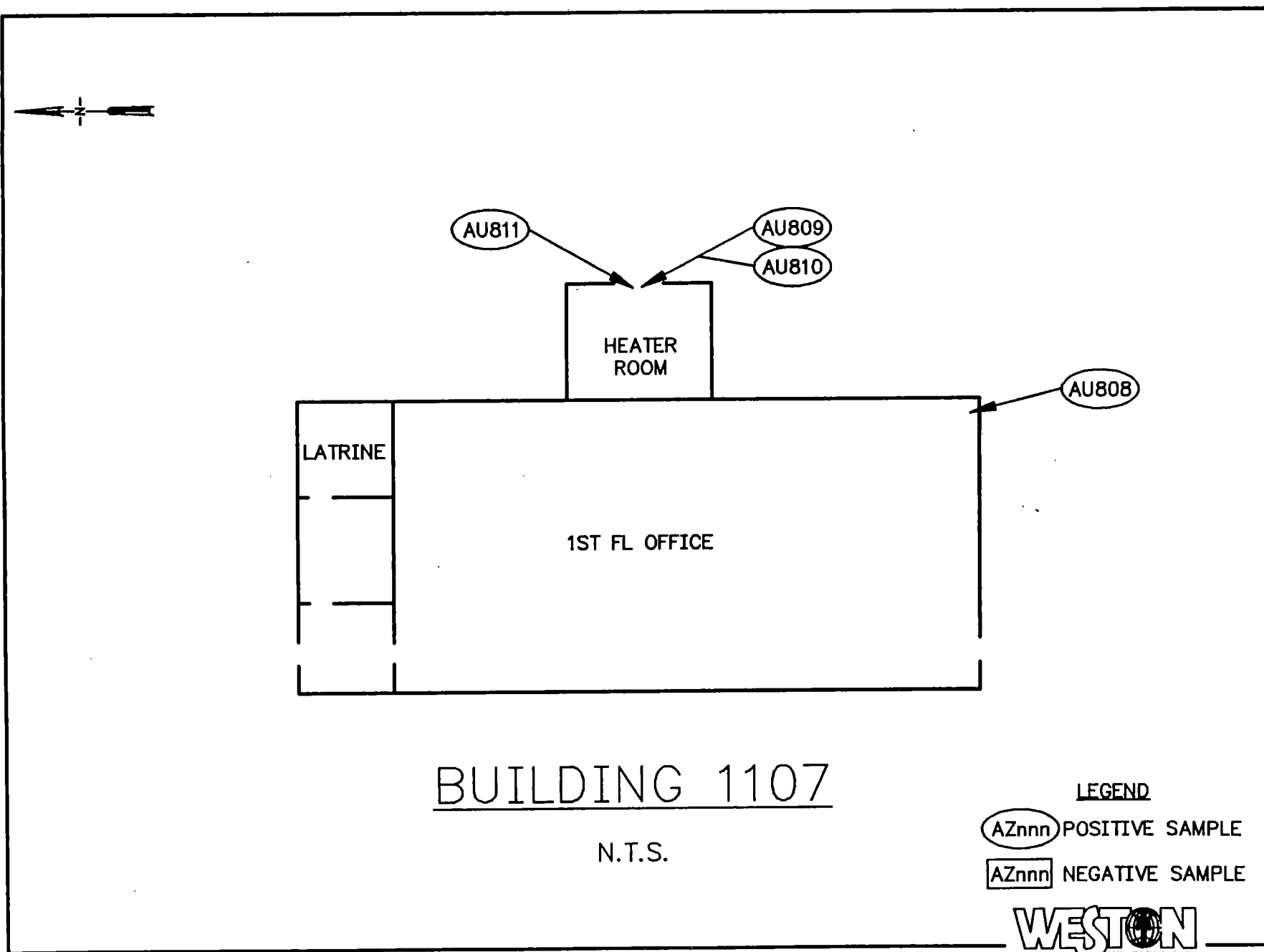
* Amounts Are In Thousands Of Dollars

** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: 1ST FL OFFICE
AREA 3: HEATER ROOM

AREA 2: 2ND FL BOY SCOUT OFF
AREA 4: LATRINE

1107-7



BUILDING 1107

N.T.S.

LEGEND

AZnnn POSITIVE SAMPLE

AZnnn NEGATIVE SAMPLE



1108

OFFICE BUILDING

1108

OFFICE BUILDING

1108.1 GENERAL

Building 1108 was surveyed by WESTON technicians on 23 January 1990.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze four samples of suspect material collected from the building. Of these samples, three were found to be asbestos-containing materials (ACM). Table 1108.1 lists the analytical results for the bulk samples.

1108.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1108 are presented in Table 1108.1. An area-by-area inventory of ACM is provided in Table 1108.2 and 1108.3 "Other Asbestos-Containing Materials," listed in Table 1108.3, are materials which do not match the standard caption categories listed in Table 1108.2. A prioritized listing of exposure assessments is presented in Table 1108.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1108.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1108.2 and 1108.5.

1108.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Asbestos-containing materials should be labeled under O&M Program.

TABLE 1108.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1108, OFFICES

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP888	LATRINE, S, BELOW CEILING	FLOOR TILE	TAN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP889	HEATER ROOM, C, BELOW CEILING	DEBRIS	OTHER, OTH, DEBRIS	55	-	-	NO
AP890	HEATER ROOM, C, BELOW CEILING	DUPLICATE SAMPLE	WHITE, OTH, DEBRIS	60	-	-	NO
AP891	HEATER ROOM, C, BELOW CEILING	EXPANSION JOINT(S)	WHITE, OTH, EXP JOINT	50	-	-	NO

^a Asbestos content presented for layered samples represents the highest concentration layer.Quadrant Codes

C - Center
 N - North
 E - East
 S - South
 W - West
 NE - Northeast
 NW - Northwest
 SE - Southeast
 SW - Southwest

System Codes

STM - Steam
 CHW - Chilled Water
 HHW - Heating Hot Water
 DOM - Domestic Water
 OTH - Other
 UNK - Unknown

Asbestos Types

CH - Chrysotile
 AM - Amosite
 OT - Other

TABLE 1108.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1108, OFFICES

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	
HEATER ROOM	-	-	-	-	-	-	-	-	-	-	-	-	*
TOTALS	-	-	-	-	-	-	-	-	-	-	-	-	*

* Other material present in various units of measure. See Table 1108.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 1108.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 1108, OFFICES

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
HEATER ROOM	EXPANSION JOINT	2 (EA)
HEATER ROOM	DEBRIS (AIRCELL)	0.04 (MSF)

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

1108-4

TABLE 1108.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1108, OFFICES

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AP891	HEATER ROOM	EXPANSION JOINTS	A	8.250E00	2	2	1	1	1	1.00	50
AP889	HEATER ROOM	DEBRIS	A	2.500E-2	2	1	1	1	1	1.00	55

Priority Index Codes

A [-] Long Term Corrective Measure
 B [-] Review Management Special Considerations/Remarks
 C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [-] Material Friability
 2 [-] Occupant Accessibility
 3 [-] Material Condition
 4 [-] Level Of Activity
 5 [-] Number Of Assigned Occupants

TABLE 1108.5

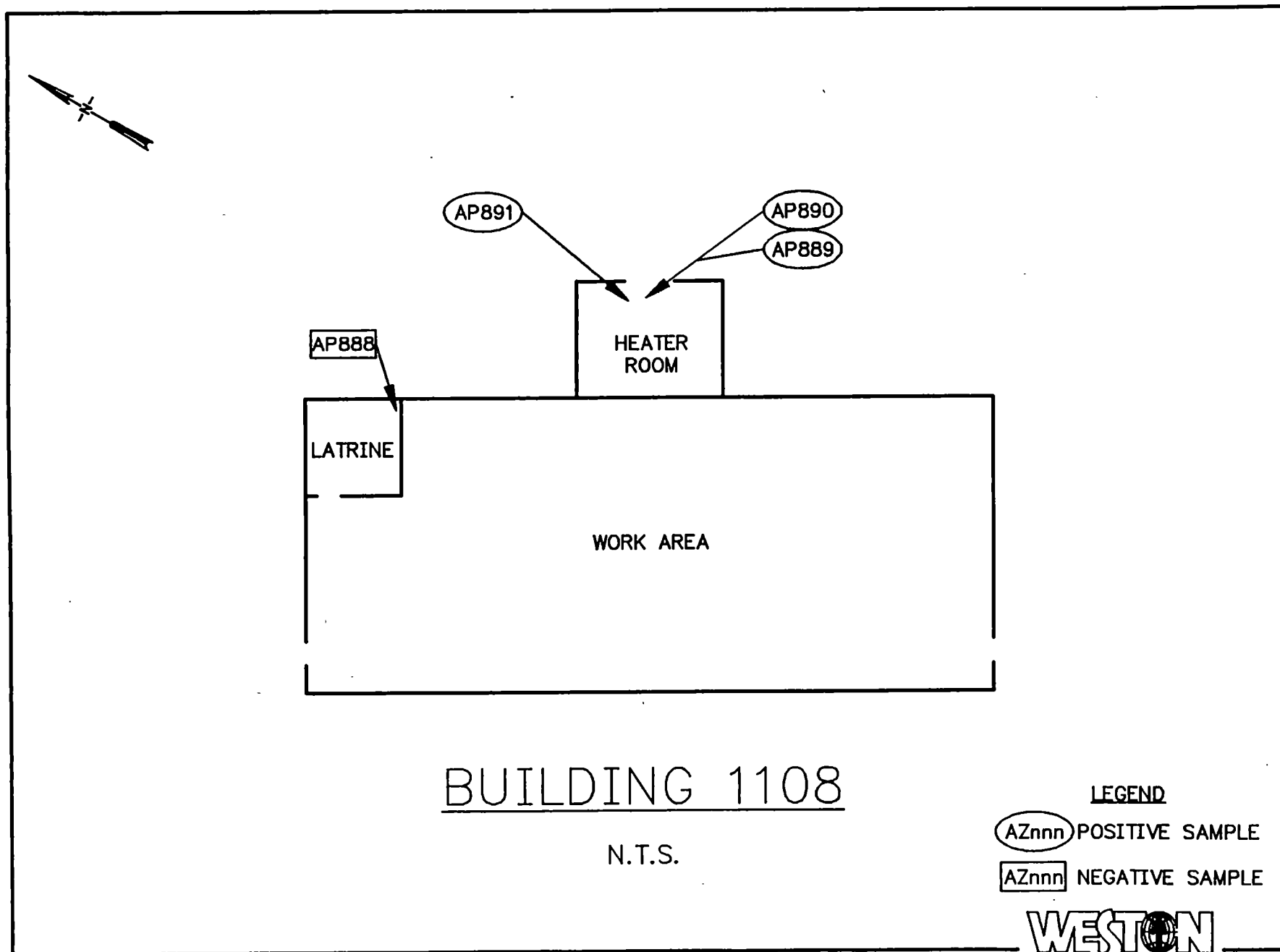
COST ESTIMATE* - BUILDING 1108, OFFICES
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	30.50	-	-
9-14"	42.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	-	-
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		1.3	1.3
SUBTOTAL		1.3	1.3
Difficulty Allowance		0.4	0.4
SUBTOTAL		1.7	1.7
Decontamination Units		3.1	3.1
Mobilization		4.2	4.2
SUBTOTAL		9.0	9.0
Contingency @ 15.00%		1.3	1.3
SUBTOTAL		10.3	10.3
Design Fee @ 6.00%		0.6	0.6
SUBTOTAL		10.9	10.9
Air Monitoring		1.1	1.1
TOTAL		12.0	12.0

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: HEATER ROOM



1122

AUTO/CRAFT SHOP

1122

AUTO/CRAFT SHOP

1122.1 GENERAL

Building 1122 was surveyed by WESTON technicians on 17 January 1990.

The first three portions of this facility report summarize the results of this inspection. Photograph of one sample location is provided in Section 1122.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 15 samples of suspect material collected from the building. Of these samples, eight were found to be asbestos-containing materials (ACM) and one sample was found to contain less than one percent asbestos. Table 1122.1 lists the analytical results for the bulk samples.

1122.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1122 are presented in Table 1122.1. An area-by-area inventory of ACM is provided in Table 1122.2 and 1122.3 "Other Asbestos-Containing Materials," listed in Table 1122.3, are materials which do not match the standard caption categories listed in Table 1122.2. A prioritized listing of exposure assessments is presented in Table 1122.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1122.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1122.2 and 1122.5.

1122.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Asbestos-containing materials should be labeled under O&M Program.

Sample - Brass + Stack

1122

Bldg. 1122

BULK SAMPLE TEST RESULTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

DATA SHEET

Clayton Project No.: 16789-47

Sample ID	SERV-AIR, INC.	#C88-20				
Laboratory Sample ID #		102910				
Analytical Method - PLM + Dispersion Staining						
Gross Sample Appearance (enter number; note color)	1. Homogeneous, fibrous 2. Homogeneous, nonfibrous 3. Heterogeneous, fibrous 4. Heterogeneous, nonfibrous 5. Heterogeneous, mixed	off-white fibrous mixture				
Sample Treatment (enter number)	1. Homogenized 2. Untreated					
Amount of Material Examined (mg)						
Asbestos Present (enter number and percent)	1. Amosite 2. Chrysotile 3. Crocidolite 4. Other, specify	1. 20% 2. 5%				
Percent Total Asbestos Present in Sample		25%				
Other Fibrous Material Present (enter number and percent)	1. Fiberglass 2. Mineral Wool 3. Cellulose 4. Synthetic fibers					
Nonfibrous Materials Present (description and percent)	1. Gypsum 2. Silicate 3. Sand 4. Cement 5. Mica 6. Other					

1122

Bldg. 1122

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

Sample - Ceiling

DATA SHEET

File No.: F-16846

Clayton Project No.: 20136.00

Sample ID	E-SYSTEMS, INC.	#C88-21					
Laboratory Sample ID #		103333					
Analytical Method - PLM + Dispersion Staining							
Gross Sample Appearance (enter number; note color)	1. Homogeneous, fibrous 2. Homogeneous, nonfibrous 3. Heterogeneous, fibrous 4. Heterogeneous, nonfibrous 5. Heterogeneous, mixed	off-white fibrous mixture					
Sample Treatment (enter number)	1. Homogenized 2. Untreated						
Amount of Material Examined (ug)							
Asbestos Present (enter number and percent)	1. Amosite 2. Chrysotile 3. Crocidolite 4. Other, specify	1. trace 2. 20%					
Percent Total Asbestos Present in Sample		20%					
Other Fibrous Material Present (enter number and percent)	1. Fiberglass 2. Mineral Wool 3. Cellulose 4. Synthetic fibers	2. 30%					
Nonfibrous Materials Present (description and percent)	1. Gypsum 2. Silicate 3. Sand 4. Cement 5. Mica 6. Other						

BULK SAMPLE TEST RESULTS

1122

TABLE 1122.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1122, AUTO/CRAFT SHOP

TYPE OCCUPANCY: ADULTS (PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP822	CORRIDOR, N, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AP823	CORRIDOR, E, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	1	-	-	NO
AP824	CORRIDOR, E, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	1	-	-	NO
AP825	OFFICE 3, SW, BELOW CEILING	FLOOR TILE	BLACK, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AP826	STORAGE 3, SE, BELOW CEILING	FLOOR TILE	WHITE, OTH, FLOOR TILE, HORIZONTAL	3	-	-	NO
AP827	OFFICE 3, SW, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	2	-	-	NO
AP828	STORAGE 1, E, BELOW CEILING	<4" PIPE FITTING	WHITE, UNK, FITTING	-	-	-	YES
AP829	STORAGE 1, E, BELOW CEILING	4-8" PIPE FITTING	WHITE, UNK, FITTING	-	-	-	YES
AP830	STORAGE 1, E, BELOW CEILING	DUPLICATE SAMPLE	WHITE, OTH, FITTING	-	-	-	NO
AP831	STORAGE 2, SW, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	10	-	-	NO
AP832	CORRIDOR, C	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP833	MECH RM, N	SPRAYED/TROWELED MATERIAL	WHITE, OTH, SPRAY-ON, HORIZONTAL	15	-	-	NO
AP834	OPEN BAY, NE, BELOW CEILING	<4" PIPE FITTING	WHITE, UNK, FITTING	-	-	-	YES
AP835	CLEANING RM, E, BELOW CEILING	<4" PIPE FITTING	WHITE, UNK, FITTING	-	-	-	YES
AP836	STORAGE 5, NE, BELOW CEILING	4-8" PIPE FITTING	WHITE, UNK, FITTING	<1	-	-	YES

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C - Center
 N - North
 E - East
 S - South
 W - West
 NE - Northeast
 NW - Northwest
 SE - Southeast
 SW - Southwest

System Codes

STM - Steam
 CHW - Chilled Water
 HHW - Heating Hot Water
 DOM - Domestic Water
 OTH - Other
 UNK - Unknown

Asbestos Types

CH - Chrysotile
 AM - Amosite
 OT - Other

TABLE 1122.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1122, AUTO/CRAFT SHOP

TYPE OCCUPANCY: ADULTS (PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
CORRIDOR	-	-	-	-	-	-	-	-	-	0.30	-	-	-
MECH RM	-	-	-	-	-	-	-	-	0.22	-	-	-	-
OFFICE 3	-	-	-	-	-	-	-	-	-	0.50	-	-	-
STORAGE 2	-	-	-	-	-	-	-	-	-	0.08	-	-	-
STORAGE 3	-	-	-	-	-	-	-	-	-	0.50	-	-	-
STORAGE 5	-	1	-	-	-	-	-	-	0.27	-	-	-	-
TOTALS	-	1	-	-	-	-	-	-	0.49	1.38	-	-	-

* Other material present in various units of measure. See Table 1122.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 1122.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 1122, AUTO/CRAFT SHOP

TYPE OCCUPANCY: ADULTS (PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
NO OTHER ASBESTOS-CONTAINING MATERIAL FOUND IN THIS BUILDING		

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

1122-4

TABLE 1122.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1122, AUTO/CRAFT SHOP
 TYPE OCCUPANCY: ADULTS (PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	%
					1	2	3	4	5		
AP833	MECH RM	SPRAYED/TROWELED MATERIAL	A	5.250E-2	3	1	1	1	1	1.00	15
AP833	STORAGE 5	SPRAYED/TROWELED MATERIAL	A	5.250E-2	3	1	1	1	1	1.00	15
AP836	STORAGE 5	4-8" PIPE FITTING	A	1.625E-3	2	1	1	1	1	1.00	1
AP828	CLEANING RM	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP828	CORRIDOR	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP828	MECH RM	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP828	OPEN BAY	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP828	STORAGE 1	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP828	STORAGE 2	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP828	STORAGE 5	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP828	WOOD SHOP	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP829	CORRIDOR	4-8" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP829	MECH RM	4-8" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP829	MENS RM	4-8" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP829	OPEN BAY	4-8" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP829	STORAGE 1	4-8" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP829	STORAGE 4	4-8" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP829	TOOLING RM	4-8" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP829	WOMENS RM	4-8" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP829	WOOD SHOP	4-8" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP832	CORRIDOR	CEILING BOARD	A	0	2	1	1	1	1	1.00	0
AP832	MENS RM	CEILING BOARD	A	0	2	1	1	1	1	1.00	0
AP832	WOMENS RM	CEILING BOARD	A	0	2	1	1	1	1	1.00	0
AP834	OPEN BAY	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0
AP835	CLEANING RM	<4" PIPE FITTING	A	0	2	1	1	1	1	1.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 1122.5

COST ESTIMATE* - BUILDING 1122, AUTO/CRAFT SHOP
TYPE OCCUPANCY: ADULTS (PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	TOTAL
Pipe Fittings (EA)								
<4"	70.30	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	**	**
9-14"	147.00	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-
Pipe Runs (LF)								
<4"	26.50	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	2.1	-	-	-	2.6	4.7
Floor Tile (SF)	5.60	1.7	-	2.8	0.4	2.8	-	7.7
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
SUBTOTAL		1.7	2.1	2.8	0.4	2.8	2.7	12.5
Difficulty Allowance		-	1.1	-	-	-	1.3	2.4
SUBTOTAL		1.7	3.2	2.8	0.4	2.8	4.0	14.9
Decontamination Units		1.0	1.0	1.0	1.0	1.0	1.0	6.2
Mobilization		0.7	0.7	0.7	0.7	0.7	0.7	4.2
SUBTOTAL		3.4	4.9	4.5	2.2	4.5	5.7	25.3
Contingency @ 15.00%		0.5	0.7	0.7	0.3	0.7	0.9	3.8
SUBTOTAL		3.9	5.6	5.2	2.5	5.2	6.6	29.1
Design Fee @ 6.00%		0.2	0.3	0.3	0.2	0.3	0.4	1.7
SUBTOTAL		4.2	6.0	5.5	2.7	5.5	7.0	30.8
Air Monitoring		0.5	0.5	0.5	0.5	0.5	0.5	3.1
TOTAL		4.7	6.5	6.0	3.2	6.0	7.5	33.9

*Amounts Are In Thousands Of Dollars

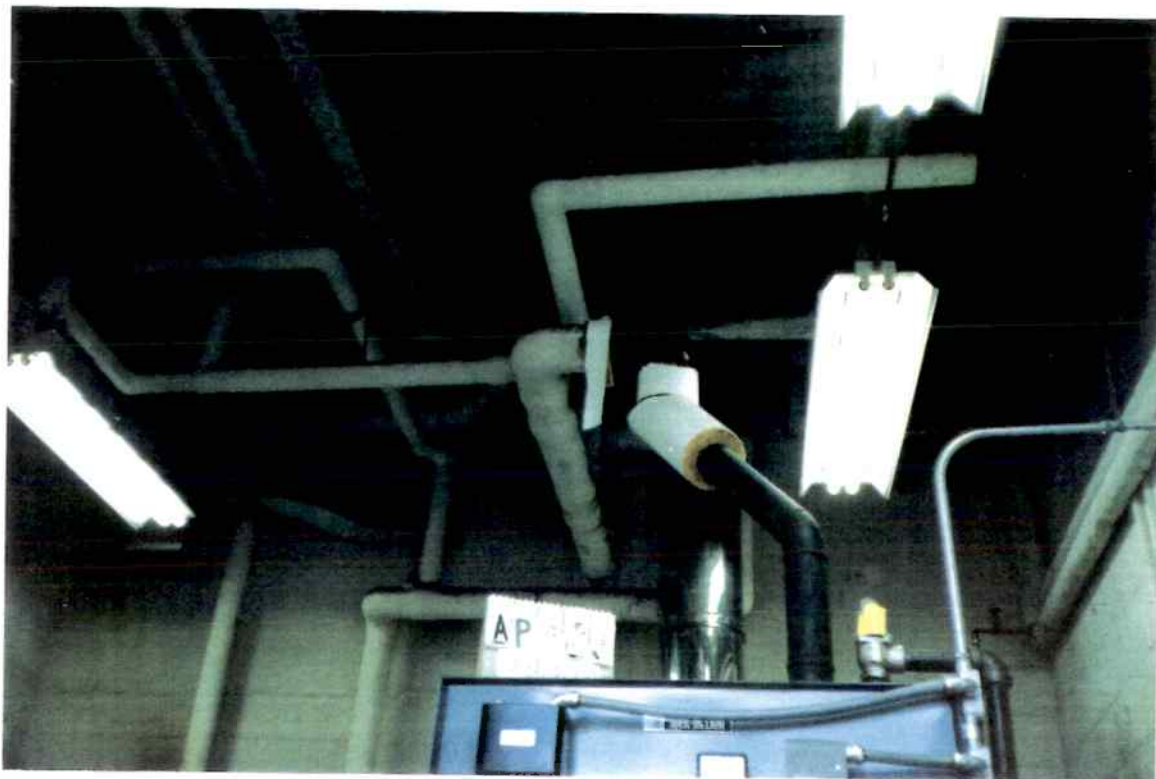
**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: CORRIDOR
AREA 3: OFFICE 3
AREA 5: STORAGE 3

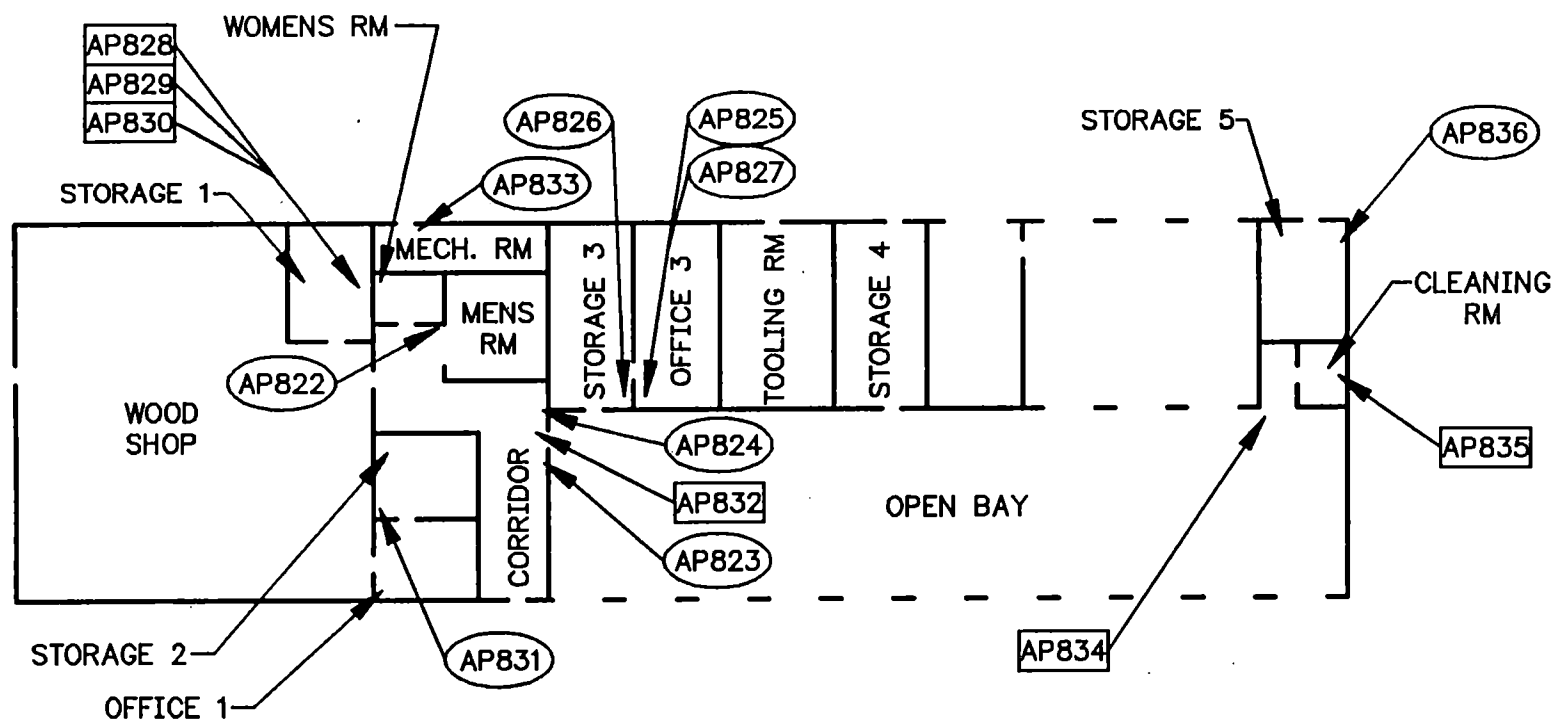
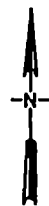
AREA 2: MECH RM
AREA 4: STORAGE 2
AREA 6: STORAGE 5

SECTION 1122

PHOTOGRAPH



AP833 - Mechanical Room - Spray-on material on ceiling tested positive.



BUILDING 1122

N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

1123

ARTS AND CRAFTS

1123

ARTS AND CRAFTS

1123.1 GENERAL

Building 1123 was surveyed by WESTON technicians on 12 January 1990.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze eight samples of suspect material collected from the building. Of these samples, three were found to be asbestos-containing materials (ACM). Table 1123.1 lists the analytical results for the bulk samples.

1123.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1123 are presented in Table 1123.1. An area-by-area inventory of ACM is provided in Table 1123.2 and 1123.3 "Other Asbestos-Containing Materials," listed in Table 1123.3, are materials which do not match the standard caption categories listed in Table 1123.2. A prioritized listing of exposure assessments is presented in Table 1123.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1123.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1123.2 and 1123.5.

1123.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Asbestos-containing material should be labeled under O&M Program.

TABLE 1123.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1123, ARTS AND CRAFTS
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC) CHILDREN (SCHOOL, INFANTS, TODDLERS)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP758	CLEANING CLOSET, SE, BELOW CEILING	FLOOR TILE	BLUE, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AP759	CLEANING CLOSET, SE	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP760	CLEANING CLOSET, SE, BELOW CEILING	DUPLICATE SAMPLE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP761	RM 8, N, BELOW CEILING	FLOOR TILE	GRAY, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP762	RM 3, RM 4, N, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	2	-	-	NO
AP763	RM 7, RM 9, C, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	2	-	-	NO
AP764	CORRIDOR, SW	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP765	RM 6, W, BELOW CEILING	FLOOR TILE	GRAY, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C = Center
 N = North
 E = East
 S = South
 W = West
 NE = Northeast
 NW = Northwest
 SE = Southeast
 SW = Southwest

System Codes

STM = Steam
 CHW = Chilled Water
 HHW = Heating Hot Water
 DOM = Domestic Water
 OTH = Other
 UNK = Unknown

Asbestos Types

CH = Chrysotile
 AM = Amosite
 OT = Other

TABLE 1123.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1123, ARTS AND CRAFTS

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC) CHILDREN (SCHOOL, INFANTS, TODDLERS)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
CLEANING CLOSET	-	-	-	-	-	-	-	-	-	0.02	-	-	-
CORRIDOR	-	-	-	-	-	-	-	-	-	0.56	-	-	-
RM 3, RM 4	-	-	-	-	-	-	-	-	-	0.41	-	-	-
RM 7, RM 9	-	-	-	-	-	-	-	-	-	0.22	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	1.21	-	-	-

* Other material present in various units of measure. See Table 1123.3 for material descriptions.

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

TABLE 1123.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 1123, ARTS AND CRAFTS

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC) CHILDREN (SCHOOL, INFANTS, TODDLERS)

AREA

MATERIAL TYPE

QUANTITY (UNIT)

NO OTHER ASBESTOS-CONTAINING MATERIAL FOUND IN THIS BUILDING

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

TABLE 1123.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1123, ARTS AND CRAFTS
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC) CHILDREN (SCHOOL, INFANTS, TODDLERS)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AP759	CLEANING CLOSET	CEILING BOARD	A	0	2	2	1	1	1	1.00	0
AP759	CORRIDOR	CEILING BOARD	A	0	2	2	1	1	30	10.00	0
AP759	RM 1, RM 2	CEILING BOARD	A	0	2	2	1	1	30	10.00	0
AP759	RM 3, RM 4	CEILING BOARD	A	0	2	2	1	1	30	10.00	0
AP759	RM 7	CEILING BOARD	A	0	2	2	1	1	30	10.00	0
AP759	RM 7, RM 9	CEILING BOARD	A	0	2	2	1	1	30	10.00	0
AP759	RM 8	CEILING BOARD	A	0	2	2	1	1	30	10.00	0
AP759	VESTIBULE 1	CEILING BOARD	A	0	2	2	1	1	30	10.00	0
AP759	VESTIBULE 2	CEILING BOARD	A	0	2	2	1	1	30	10.00	0
AP759	WOMENS & MENS RM	CEILING BOARD	A	0	2	2	1	1	30	10.00	0
AP764	CORRIDOR	CEILING BOARD	A	0	2	2	1	1	30	10.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 1123.5

COST ESTIMATE* - BUILDING 1123, ARTS AND CRAFTS

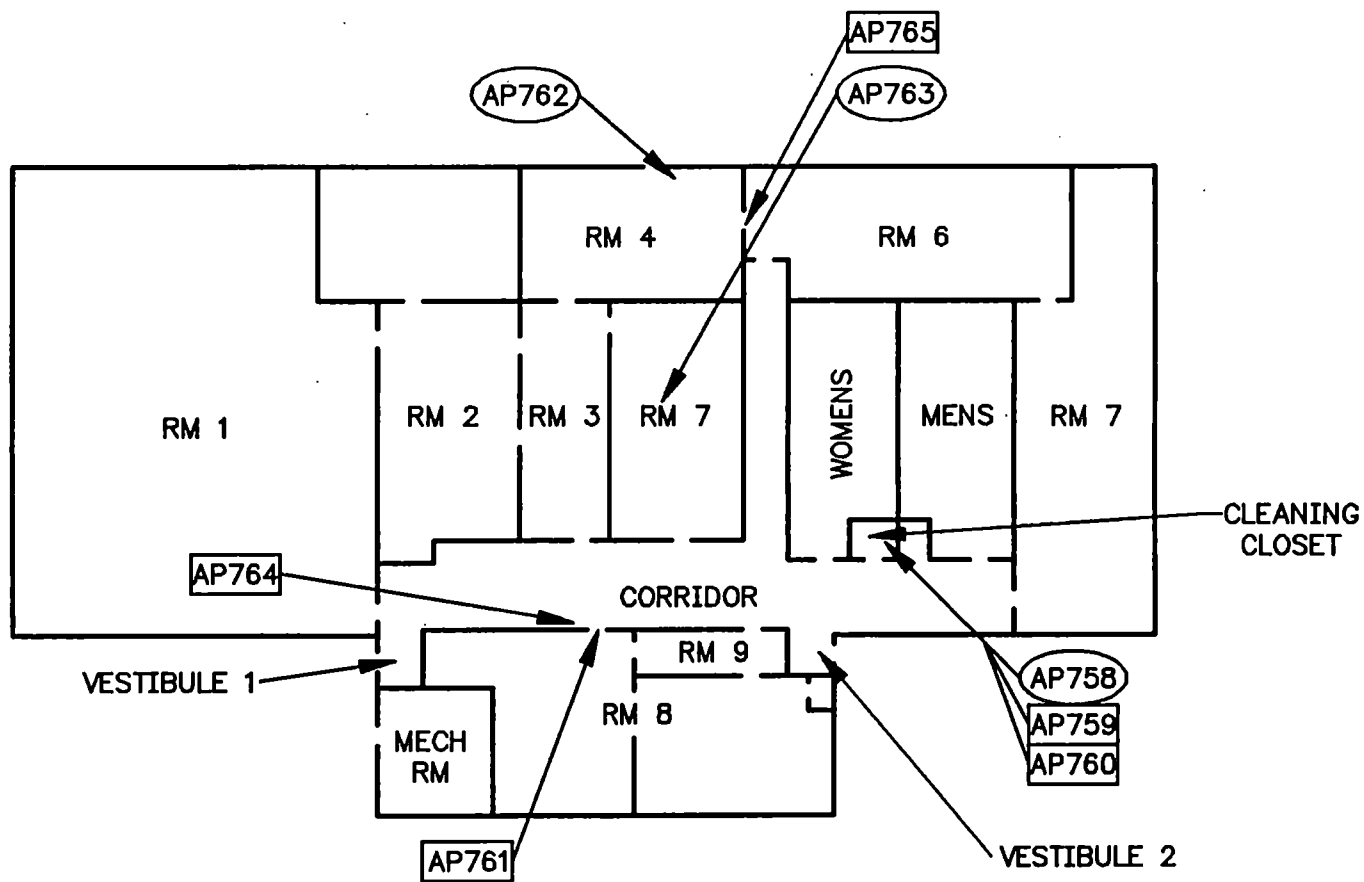
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC) CHILDREN (SCHOOL, INFANTS, TODDLERS)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	TOTAL
Pipe Fittings (EA)						
<4"	70.30	-	-	-	-	-
4-8"	85.80	-	-	-	-	-
9-14"	147.00	-	-	-	-	-
>14"	216.00	-	-	-	-	-
Pipe Runs (LF)						
<4"	26.50	-	-	-	-	-
4-8"	30.50	-	-	-	-	-
9-14"	42.50	-	-	-	-	-
>14"	60.80	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-
Floor Tile (SF)	5.60	0.1	3.2	2.3	1.2	6.8
Boilers/Tanks (SF)	37.90	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-
Other		-	-	-	-	-
SUBTOTAL		0.1	3.2	2.3	1.2	6.8
Difficulty Allowance		-	-	-	-	-
SUBTOTAL		0.1	3.2	2.3	1.2	6.8
Decontamination Units		0.8	0.8	0.8	0.8	3.1
Mobilization		1.1	1.1	1.1	1.1	4.2
SUBTOTAL		1.9	5.0	4.1	3.0	14.1
Contingency @ 15.00%		0.3	0.7	0.6	0.5	2.1
SUBTOTAL		2.2	5.7	4.7	3.5	16.2
Design Fee @ 6.00%		0.1	0.3	0.3	0.2	1.0
SUBTOTAL		2.4	6.1	5.0	3.7	17.2
Air Monitoring		0.4	0.4	0.4	0.4	1.7
TOTAL		2.8	6.5	5.5	4.1	18.9

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: CLEANING CLOSET
AREA 3: RM 3, RM 4AREA 2: CORRIDOR
AREA 4: RM 7, RM 9



BUILDING 1123

N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

1150

COMMUNICATION

1150

COMMUNICATION

1150.1 GENERAL

Building 1150 was surveyed by WESTON technicians on 16 January 1990.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 1150.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 30 samples of suspect material collected from the building. Of these samples, 17 were found to be asbestos-containing materials (ACM). Table 1150.1 lists the analytical results for the bulk samples.

1150.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1150 are presented in Table 1150.1. An area-by-area inventory of ACM is provided in Table 1150.2 and 1150.3 "Other Asbestos-Containing Materials," listed in Table 1150.3, are materials which do not match the standard caption categories listed in Table 1150.2. A prioritized listing of exposure assessments is presented in Table 1150.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1150.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1150.2 and 1150.5.

1150.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Rooms 202, 208B, and 202C qualify for the Army Asbestos Deficiency Abatement Projects.
- o Other asbestos-containing materials should be labeled under O&M Program.

TABLE 1150.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1150, COMMUNICATION

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP766	B1, B2, SW, BELOW CEILING	FLOOR TILE	BLACK, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AP767	B1, B2, SE, BELOW CEILING	FLOOR TILE	GREEN, OTH, FLOOR TILE, HORIZONTAL	2	-	-	NO
AP768	CORRIDOR B1, NW, BELOW CEILING	FLOOR TILE	OTHER, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AP769	B15, B16, NE, BELOW CEILING	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	10	-	-	NO
AP770	B15, B16, NE, BELOW CEILING	DUPLICATE SAMPLE	WHITE, OTH, CEIL TILE, HORIZONTAL	5	-	-	NO
AP771	B15, B16, E, BELOW CEILING	FLOOR TILE	GREEN, OTH, FLOOR TILE, HORIZONTAL	7	-	-	NO
AP772	B14, N, BELOW CEILING	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP773	B7, SW, BELOW CEILING	BOILERS/TANKS	WHITE, UNK, TANK, VERTICAL	-	-	-	NO
AP774	B3, S, BELOW CEILING	<4" PIPE RUN	WHITE, UNK, PIPE RUN, VERTICAL	10	-	-	YES
AP775	B3, S, BELOW CEILING	<4" PIPE FITTING	WHITE, UNK, FITTING	35	1	<1	NO
AP776	B3, N, BELOW CEILING	FLOOR TILE	WHITE, OTH, FLOOR TILE, HORIZONTAL	3	-	-	NO
AP777	B1, B2, N, BELOW CEILING	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP778	111, C, BELOW CEILING	FLOOR TILE	RED, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP779	111, NE, BELOW CEILING	TRANSITE PANEL BOARD	GRAY, OTH, TRANSITE, VERTICAL	40	-	-	NO
AP780	111, NE, BELOW CEILING	DUPLICATE SAMPLE	GRAY, OTH, TRANSITE, VERTICAL	35	-	-	NO
AP781	111, N, BELOW CEILING	OTHER MATERIAL	RED, OTH, FLOORING, HORIZONTAL	-	-	-	YES
AP782	111, NW, BELOW CEILING	FLOOR TILE	BLACK, OTH, FLOOR TILE, HORIZONTAL	10	-	-	NO
AP783	108, S, BELOW CEILING	FLOOR TILE	TAN, OTH, FLOOR TILE, HORIZONTAL	10	-	-	NO
AP784	104, E	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP785	101, SW, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP786	101, SW, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, ACOUS TILE, HORIZONTAL	-	-	-	NO
AP787	104, NE, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, ACOUS TILE, VERTICAL	-	-	-	NO
AP788	100, E, BELOW CEILING	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	YES
AP789	202A, 202D, N, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, ACOUS TILE, VERTICAL	-	1	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.Quadrant Codes

C - Center
 N - North
 E - East
 S - South
 W - West
 NE - Northeast
 NW - Northwest
 SE - Southeast
 SW - Southwest

System Codes

STM - Steam
 CHW - Chilled Water
 HHW - Heating Hot Water
 DOM - Domestic Water
 OTH - Other
 UNK - Unknown

Asbestos Types

CH - Chrysotile
 AM - Amosite
 OT - Other

TABLE 1150.1
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1150, COMMUNICATION

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP790	202A, 202D,N,BELOW CEILING	DUPLICATE SAMPLE	WHITE,OTH,ACOUS TILE,VERTICAL	-	5	-	NO
AP791	202, 202B, 202C,S,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS TILE,VERTICAL	-	-	-	YES
AP792	202, 202B, 202C,N,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS TILE,VERTICAL	-	-	-	YES
AP793	202, 202B, 202C,N,BELOW CEILING	<4" PIPE RUN	WHITE,STM,PIPE RUN,VERTICAL	35	5	-	YES
AP794	221, 224, 226,C	CEILING BOARD	BROWN,OTH,ACOUS TILE,HORIZONTAL	-	-	-	YES
AP795	CLOSET 1ST FL,N,BELOW CEILING	<4" PIPE RUN	WHITE,UNK,PIPE RUN,VERTICAL	32	4	-	YES

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C = Center
N = North
E = East
S = South
W = West
NE = Northeast
NW = Northwest
SE = Southeast
SW = Southwest

System Codes

STM = Steam
CHW = Chilled Water
HHW = Heating Hot Water
DOM = Domestic Water
OTH = Other
UNK = Unknown

Asbestos Types

CH = Chrysotile
AM = Amosite
OT = Other

TABLE 1150.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1150, COMMUNICATION

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
100	-	-	-	-	-	-	-	-	-	0.94	-	-	-
108	-	-	-	-	-	-	-	-	-	1.19	-	-	*
111	-	-	-	-	-	-	-	-	-	0.68	-	-	*
113	-	-	-	-	-	-	-	-	-	0.49	-	-	-
202, 202B, 202C	-	-	-	-	2	-	-	-	-	0.90	-	-	*
202A, 202D	-	-	-	-	-	-	-	-	-	0.60	-	-	*
208	-	-	-	-	-	-	-	-	-	0.48	-	-	-
208A	-	-	-	-	-	-	-	-	-	0.33	-	-	*
209	-	-	-	-	-	-	-	-	-	0.75	-	-	*
210	-	-	-	-	-	-	-	-	-	0.42	-	-	*
211	-	-	-	-	-	-	-	-	-	-	-	-	*
213	-	-	-	-	-	-	-	-	-	0.11	-	-	-
216	-	-	-	-	-	-	-	-	-	0.57	-	-	-
221, 224, 226	-	-	-	-	-	-	-	-	-	1.43	-	-	-
301	-	-	-	-	-	-	-	-	-	0.65	-	-	-
302	-	-	-	-	-	-	-	-	-	0.84	-	-	*
303	-	-	-	-	-	-	-	-	-	0.65	-	-	-
304	-	-	-	-	-	-	-	-	-	0.42	-	-	-
B1, B2	-	-	-	-	-	-	-	-	-	1.44	-	-	-
B12	-	-	-	-	-	-	-	-	-	0.18	-	-	-
B14	-	-	-	-	-	-	-	-	-	0.49	-	-	*
B15, B16	-	-	-	-	-	-	-	-	-	0.98	-	-	*
B3	1	-	-	-	3	-	-	-	-	0.36	-	-	-
B4	1	-	-	-	-	-	-	-	-	-	-	-	-
B5	-	-	-	-	-	-	-	-	-	0.25	-	-	-
CLOSET 1ST FL	-	-	-	-	20	-	-	-	-	0.03	-	-	-
CLOSET 2ND FL	-	-	-	-	-	-	-	-	-	0.03	-	-	-
CORRIDOR 200	-	-	-	-	-	-	-	-	-	1.14	-	-	-
CORRIDOR 300	-	-	-	-	-	-	-	-	-	0.35	-	-	-
CORRIDOR B1	-	-	-	-	-	-	-	-	-	3.50	-	-	-
CRYPTO VAULT	-	-	-	-	-	-	-	-	-	0.34	-	-	*
ELEV	-	-	-	-	-	-	-	-	-	0.02	-	-	-

* Other material present in various units of measure. See Table 1150.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 1150.2
(continued)

ASBESTOS-CONTAINING MATERIALS - BUILDING 1150, COMMUNICATION

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
ENTRY 1	-	-	-	-	-	-	-	-	-	0.05	-	-	-
ENTRY 2	-	-	-	-	-	-	-	-	-	0.05	-	-	-
JANITOR	-	-	-	-	-	-	-	-	-	0.06	-	-	-
LOBBY	-	-	-	-	-	-	-	-	-	0.67	-	-	-
TOTALS	2	-	-	-	25	-	-	-	-	21.38	-	-	*

* Other material present in various units of measure. See Table 1150.3 for material descriptions.

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

TABLE 1150.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 1150, COMMUNICATION

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
108	TRANSITE PANEL BOARD	0.11 (MSF)
111	TRANSITE PANEL BOARD	1.26 (MSF)
202, 202B, 202C	ACOUSTICAL WALL TILE	0.90 (MSF)
202A, 202D	ACOUSTICAL WALL TILE	3.77 (MSF)
208A	TRANSITE PANEL BOARD	0.06 (MSF)
209	TRANSITE PANEL BOARD	0.20 (MSF)
210	TRANSITE PANEL BOARD	0.25 (MSF)
211	TRANSITE PANEL BOARD	0.53 (MSF)
302	TRANSITE PANEL BOARD	1.17 (MSF)
B14	CEILING BOARD	0.45 (MSF)
B15, B16	CEILING BOARD	0.98 (MSF)
CRYPTO VAULT	TRANSITE PANEL BOARD	0.74 (MSF)

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

TABLE 1150.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1150, COMMUNICATION

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AP793	202, 202B, 202C	<4" PIPE RUN	C	1.500E04	3	3	2	1	1	40.00	40
AP769	B14	CEILING BOARD	B	2.400E02	2	2	1	1	2	40.00	10
AP769	B15, B16	CEILING BOARD	B	2.400E02	2	2	1	1	2	40.00	10
AP789	202, 202B, 202C	ACOUSTICAL WALL TILE	B	1.600E02	2	3	2	1	1	40.00	1
AP789	202A, 202D	ACOUSTICAL WALL TILE	B	1.600E02	2	3	2	1	1	40.00	1
AP774	B3	<4" PIPE RUN	A	9.000E01	2	2	1	1	3	10.00	10
AP775	B3	<4" PIPE FITTING	A	9.000E01	2	2	1	1	3	10.00	37
AP795	CLOSET 1ST FL	<4" PIPE RUN	A	4.750E01	3	3	1	1	1	1.00	36
AP775	B4	<4" PIPE FITTING	A	3.000E00	2	2	1	1	1	1.00	37
AP779	108	TRANSITE PANEL BOARD	A	2.480E-2	1	1	1	1	8	40.00	40
AP779	111	TRANSITE PANEL BOARD	A	2.480E-2	1	1	1	1	8	40.00	40
AP779	208A	TRANSITE PANEL BOARD	A	2.480E-2	1	1	1	1	8	40.00	40
AP779	209	TRANSITE PANEL BOARD	A	2.480E-2	1	1	1	1	8	40.00	40
AP779	210	TRANSITE PANEL BOARD	A	2.480E-2	1	1	1	1	8	40.00	40
AP779	211	TRANSITE PANEL BOARD	A	2.480E-2	1	1	1	1	8	40.00	40
AP779	302	TRANSITE PANEL BOARD	A	2.480E-2	1	1	1	1	8	40.00	40
AP779	CRYPTO VAULT	TRANSITE PANEL BOARD	A	2.480E-2	1	1	1	1	8	40.00	40
AP772	108	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP772	111	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP772	B14	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP773	B7	BOILERS/TANKS	A	0	2	3	1	1	2	4.00	0
AP777	208	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP777	B1, B2	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP784	104	CEILING BOARD	A	0	2	2	1	1	4	40.00	0
AP784	115	CEILING BOARD	A	0	2	2	1	1	4	40.00	0
AP786	101	ACOUSTICAL WALL TILE	A	0	2	3	2	1	4	40.00	0
AP786	304	ACOUSTICAL WALL TILE	A	0	2	3	2	1	4	40.00	0
AP787	104	ACOUSTICAL WALL TILE	A	0	2	3	2	1	4	40.00	0
AP788	100	CEILING BOARD	A	0	2	2	1	1	4	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 1150.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1150, COMMUNICATION

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AP791	202, 202B, 202C	ACOUSTICAL WALL TILE	A	0	2	2	2	1	1	40.00	0
AP792	202, 202B, 202C	ACOUSTICAL WALL TILE	A	0	2	2	2	1	1	40.00	0
AP794	221, 224, 226	CEILING BOARD	A	0	1	1	1	1	4	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessibility
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 1150.5

COST ESTIMATE* - BUILDING 1150, COMMUNICATION
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	**	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	5.3	6.7	3.8	2.7	5.0	3.4	2.7	1.8	4.2	2.3	-
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	1.2	13.9	-	9.9	41.5	-	0.7	2.2	2.7	5.8
SUBTOTAL		5.3	7.9	17.6	2.7	15.0	44.8	2.7	2.5	6.4	5.0	5.8
Difficulty Allowance		-	0.6	6.9	-	2.5	-	-	-	-	1.4	2.9
SUBTOTAL		5.3	8.5	24.6	2.7	17.6	44.8	2.7	2.5	6.4	6.4	8.7
Decontamination Units		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Mobilization		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SUBTOTAL		5.7	9.0	25.0	3.2	18.0	45.3	3.1	3.0	6.9	6.9	9.2
Contingency @ 15.00%		0.9	1.3	3.8	0.5	2.7	6.8	0.5	0.4	1.0	1.0	1.4
SUBTOTAL		6.6	10.3	28.8	3.7	20.7	52.1	3.6	3.4	7.9	7.9	10.5
Design Fee @ 6.00%		0.4	0.6	1.7	0.2	1.2	3.1	0.2	0.2	0.5	0.5	0.6
SUBTOTAL		7.0	10.9	30.5	3.9	22.0	55.2	3.8	3.6	8.4	8.4	11.2
Air Monitoring		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
TOTAL		7.8	11.8	31.4	4.8	22.8	56.1	4.7	4.5	9.2	9.2	12.0

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: 100
AREA 3: 111
AREA 5: 202, 202B, 202C
AREA 7: 208
AREA 9: 209
AREA 11: 211

AREA 2: 108
AREA 4: 113
AREA 6: 202A, 202D
AREA 8: 208A
AREA 10: 210

TABLE 1150.5

(continued)

COST ESTIMATE* - BUILDING 1150, COMMUNICATION

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 12	AREA 13	AREA 14	AREA 15	AREA 16	AREA 17	AREA 18	AREA 19	AREA 20	AREA 21	AREA 22
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	0.6	3.2	8.0	3.6	4.7	3.6	2.3	8.1	1.0	2.7	5.5
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	12.9	-	-	-	-	1.2	2.6
SUBTOTAL		0.6	3.2	8.0	3.6	17.6	3.6	2.3	8.1	1.0	4.0	8.1
Difficulty Allowance		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		0.6	3.2	8.0	3.6	17.6	3.6	2.3	8.1	1.0	4.0	8.1
Decontamination Units		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Mobilization		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SUBTOTAL		1.1	3.7	8.5	4.1	18.0	4.1	2.8	8.5	1.5	4.4	8.6
Contingency @ 15.00%		0.2	0.5	1.3	0.6	2.7	0.6	0.4	1.3	0.2	0.7	1.3
SUBTOTAL		1.2	4.2	9.7	4.7	20.7	4.7	3.2	9.8	1.7	5.1	9.9
Design Fee @ 6.00%		**	0.3	0.6	0.3	1.2	0.3	0.2	0.6	0.1	0.3	0.6
SUBTOTAL		1.3	4.5	10.3	5.0	22.0	5.0	3.4	10.4	1.8	5.4	10.5
Air Monitoring		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
TOTAL		2.2	5.3	11.2	5.9	22.8	5.8	4.3	11.3	2.7	6.3	11.3

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 12: 213
 AREA 14: 221, 224, 226
 AREA 16: 302
 AREA 18: 304
 AREA 20: B12
 AREA 22: B15, B16

AREA 13: 216
 AREA 15: 301
 AREA 17: 303
 AREA 19: B1, B2
 AREA 21: B14

TABLE 1150.5
(continued)

COST ESTIMATE* - BUILDING 1150, COMMUNICATION
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 23	AREA 24	AREA 25	AREA 26	AREA 27	AREA 28	AREA 29	AREA 30	AREA 31	AREA 32	AREA 33
Pipe Fittings (EA)												
<4"	70.30	**	**	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	**	-	-	0.5	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	2.0	-	1.4	0.2	0.2	6.4	2.0	19.6	1.9	**	0.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	8.1	-	-
SUBTOTAL		2.1	**	1.4	0.7	0.2	6.4	2.0	19.6	10.1	**	0.3
Difficulty Allowance		-	**	-	-	-	-	-	-	-	-	-
SUBTOTAL		2.1	0.1	1.4	0.7	0.2	6.4	2.0	19.6	10.1	**	0.3
Decontamination Units		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Mobilization		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SUBTOTAL		2.6	0.6	1.9	1.2	0.6	6.9	2.4	20.1	10.5	0.6	0.7
Contingency @ 15.00%		0.4	**	0.3	0.2	**	1.0	0.4	3.0	1.6	**	0.1
SUBTOTAL		3.0	0.7	2.2	1.3	0.7	7.9	2.8	23.1	12.1	0.6	0.9
Design Fee @ 6.00%		0.2	**	0.1	**	**	0.5	0.2	1.4	0.7	**	**
SUBTOTAL		3.2	0.7	2.3	1.4	0.8	8.4	3.0	24.5	12.8	0.7	0.9
Air Monitoring		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
TOTAL		4.0	1.6	3.2	2.3	1.6	9.2	3.8	25.3	13.7	1.5	1.8

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 23: B3
AREA 25: B5
AREA 27: CLOSET 2ND FL
AREA 29: CORRIDOR 300
AREA 31: CRYPTO VAULT
AREA 33: ENTRY 1

AREA 24: B4
AREA 26: CLOSET 1ST FL
AREA 28: CORRIDOR 200
AREA 30: CORRIDOR B1
AREA 32: ELEV

1150-11

TABLE 1150.5
(continued)

COST ESTIMATE* - BUILDING 1150, COMMUNICATION
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 34	AREA 35	AREA 36	TOTAL
Pipe Fittings (EA)					
<4"	70.30	-	-	-	0.1
4-8"	85.80	-	-	-	-
9-14"	147.00	-	-	-	-
>14"	216.00	-	-	-	-
Pipe Runs (LF)					
<4"	26.50	-	-	-	0.7
4-8"	30.50	-	-	-	-
9-14"	42.50	-	-	-	-
>14"	60.80	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-
Floor Tile (SF)	5.60	0.3	0.3	3.7	119.7
Boilers/Tanks (SF)	37.90	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-
Other		-	-	-	102.8
SUBTOTAL		0.3	0.3	3.7	223.3
Difficulty Allowance		-	-	-	14.4
SUBTOTAL		0.3	0.3	3.7	237.6
Decontamination Units		0.3	0.3	0.3	12.4
Mobilization		0.1	0.1	0.1	4.2
SUBTOTAL		0.7	0.8	4.2	254.2
Contingency @ 15.00%		0.1	0.1	0.6	38.1
SUBTOTAL		0.9	0.9	4.8	292.4
Design Fee @ 6.00%		**	**	0.3	17.5
SUBTOTAL		0.9	1.0	5.1	309.9
Air Monitoring		0.9	0.9	0.9	31.0
TOTAL		1.8	1.8	6.0	340.9

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 34: ENTRY 2
AREA 36: LOBBY

AREA 35: JANITOR

SECTION 1150.4

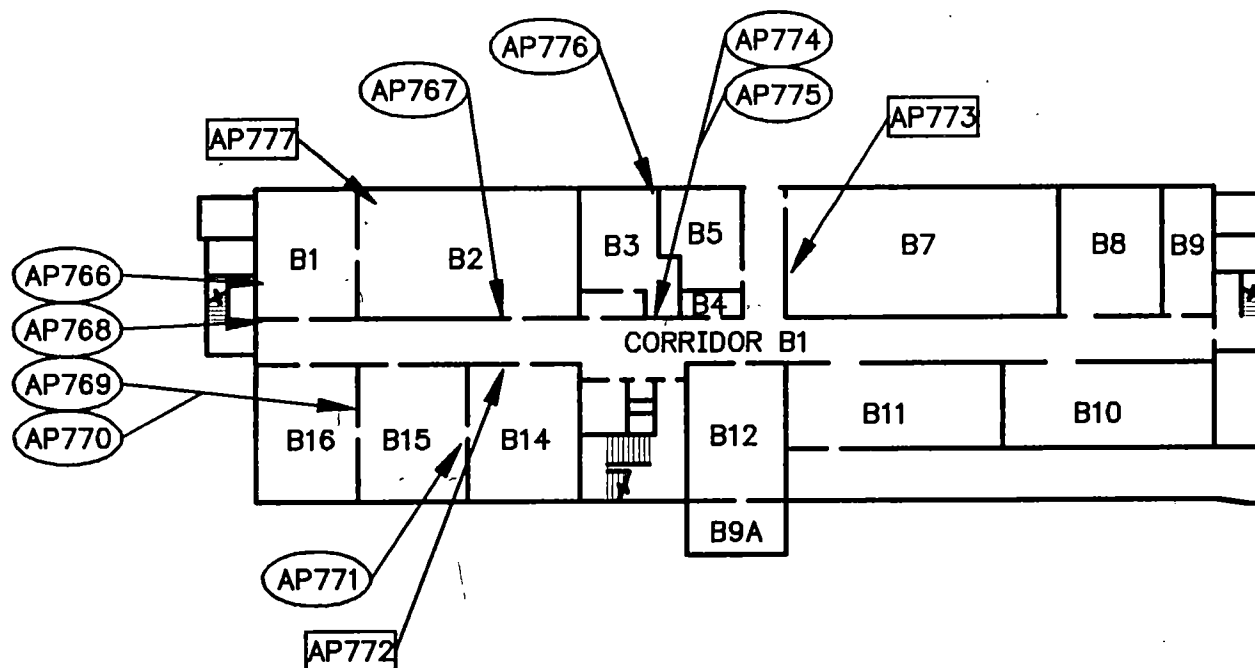
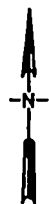
PHOTOGRAPHS



AP793 - Rooms 202, 202B, and 202C - Pipe insulation tested positive for asbestos.



AP795 - First Floor Closet - Pipe insulation tested positive for asbestos.



BUILDING 1150, BASEMENT

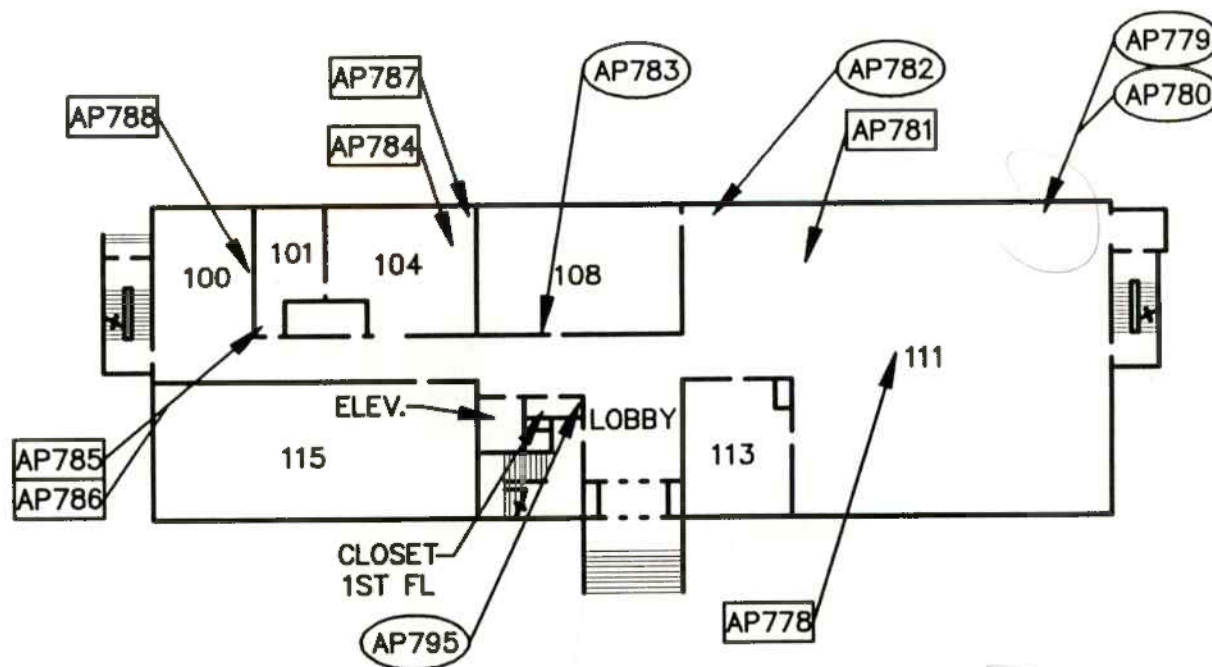
N.T.S.

LEGEND

AZnnn POSITIVE SAMPLE

AZnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



BUILDING 1150, FIRST FLOOR

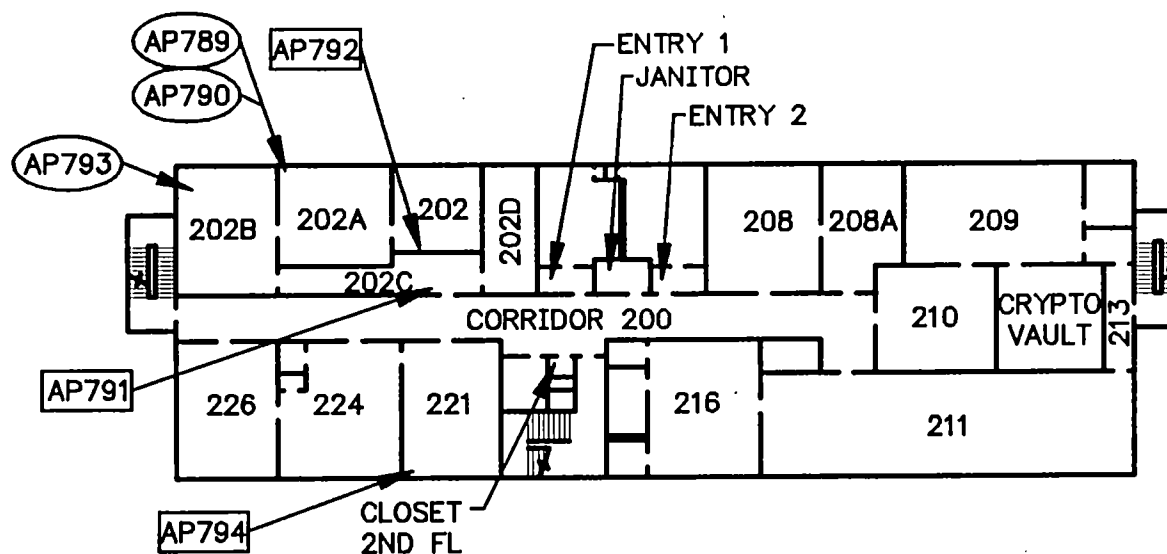
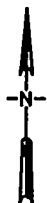
N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



BUILDING 1150, SECOND FLOOR

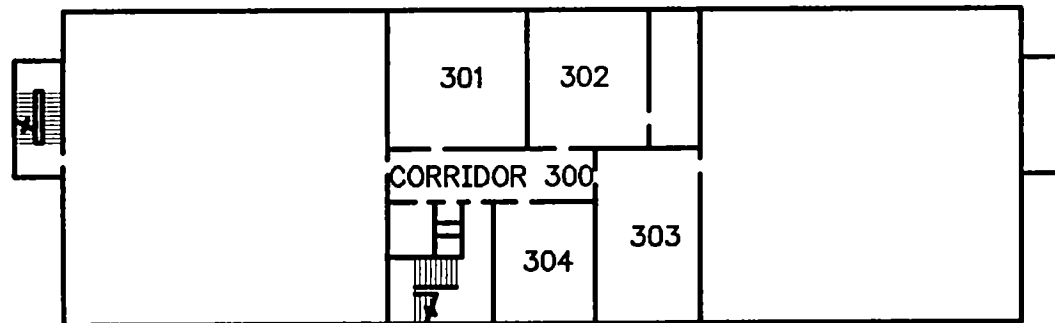
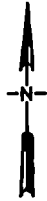
N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



BUILDING 1150, THIRD FLOOR

N.T.S.

LEGEND

AZnnn POSITIVE SAMPLE

AZnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

1206, 1207, 1208

CHAPLAIN SCHOOL

1206

CHAPLAIN SCHOOL AUDITORIUM

1206.1 GENERAL

Building 1206 was surveyed by WESTON technicians on 28 November 1989 through 19 December 1989.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze eight samples of suspect material collected from the building. Of these samples, four were found to be asbestos-containing materials (ACM). Table 1206.1 lists the analytical results for the bulk samples.

1206.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1206 are presented in Table 1206.1. An area-by-area inventory of ACM is provided in Table 1206.2 and 1206.3. "Other Asbestos-Containing Materials," listed in Table 1206.3, are materials which do not match the standard caption categories listed in Table 1206.2. A prioritized listing of exposure assessments is presented in Table 1206.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1206.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1206.2 and 1206.5. Table 1206.6 lists suspect materials which were not sampled due to the reported Asbestos Abatement Project performed prior to the survey.

1206.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Asbestos-containing material should be labeled under O&M Program.

TABLE 1206.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1206, CHAPLAIN SCHOOL AUD

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AZ796	STAIRS 1, NA, BELOW CEILING	TRANSITE PANEL BOARD	GRAY, OTH, TRANSITE, VERTICAL	50	-	-	YES
AZ797	LOBBY 1, NA	CEILING BOARD	WHITE, OTH, CEIL BOARD, HORIZONTAL	-	-	-	YES
AZ798	VESTIBULE 1, NA	CEILING BOARD	WHITE, OTH, CEIL BOARD, HORIZONTAL	-	-	-	YES
AZ799	MENS DRESSING ROOM, NA, ABOVE CEILING	<4" PIPE RUN	GRAY, UNK, PIPE RUN, HORIZONTAL	10	-	-	YES
AZ800	MENS DRESSING ROOM, NA, ABOVE CEILING	DUPLICATE SAMPLE	GRAY, UNK, PIPE RUN, HORIZONTAL	20	-	-	YES
AZ801	MENS DRESSING ROOM, NA, ABOVE CEILING	<4" PIPE FITTING	WHITE, UNK, FITTING, HORIZONTAL	50	-	-	YES
AZ802	GENERATOR ROOM, NA, ABOVE CEILING	4-8" PIPE FITTING	WHITE, STM, FITTING	-	-	-	YES
AZ803	GENERATOR ROOM, NA	<4" PIPE FITTING	WHITE, STM, FITTING	-	-	-	YES

^a Asbestos content presented for layered samples represents the highest concentration layer.Quadrant Codes

C = Center
 N = North
 E = East
 S = South
 W = West
 NE = Northeast
 NW = Northwest
 SE = Southeast
 SW = Southwest

System Codes

STM = Steam
 CHW = Chilled Water
 HHW = Heating Hot Water
 DOM = Domestic Water
 OTH = Other
 UNK = Unknown

Asbestos Types

CH = Chrysotile
 AM = Amosite
 OT = Other

TABLE 1206.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1206, CHAPLAIN SCHOOL AUD
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
MENS DRESSING ROOM	10	-	-	-	70	-	-	-	-	-	-	-	-
STAIRS 1	-	-	-	-	-	-	-	-	-	-	-	-	*
STAIRS 2	-	-	-	-	-	-	-	-	-	-	-	-	*
WOMENS DRESSING ROOM	6	-	-	-	20	-	-	-	-	-	-	-	-
TOTALS	16	-	-	-	90	-	-	-	-	-	-	-	*

* Other material present in various units of measure. See Table 1206.3 for material descriptions.

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

TABLE 1206.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 1206, CHAPLAIN SCHOOL AUD

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
STAIRS 1	TRANSITE CORRUGATED PANEL	0.44 (MSF)
STAIRS 2	TRANSITE CORRUGATED PANEL	0.44 (MSF)

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

1206-4

TABLE 1206.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1206, CHAPLAIN SCHOOL AUD
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	%
					1	2	3	4	5		
AZ801	MENS DRESSING ROOM	<4" PIPE FITTING	B	1.900E02	3	2	1	1	4	1.00	50
AZ801	WOMENS DRESSING ROOM	<4" PIPE FITTING	B	1.900E02	3	2	1	1	4	1.00	50
AZ799	MENS DRESSING ROOM	<4" PIPE RUN	A	2.400E01	2	2	1	1	4	2.00	10
AZ799	WOMENS DRESSING ROOM	<4" PIPE RUN	A	2.400E01	2	2	1	1	4	2.00	10
AZ796	STAIRS 1	TRANSITE PANEL BOARD	A	7.000E-2	1	3	1	1	1	1.00	50
AZ796	STAIRS 2	TRANSITE PANEL BOARD	A	7.000E-2	1	3	1	1	1	1.00	50
AZ797	LOBBY 1	CEILING BOARD	A	0	2	1	1	1	70	2.00	0
AZ798	VESTIBULE 1	CEILING BOARD	A	0	2	1	1	1	20	3.00	0
AZ802	GENERATOR ROOM	4-8" PIPE FITTING	A	0	3	3	1	1	4	1.00	0
AZ803	GENERATOR ROOM	<4" PIPE FITTING	A	0	3	3	1	1	1	1.00	0

Priority Index Codes

A [-] Long Term Corrective Measure
B [-] Review Management Special Considerations/Remarks
C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [-] Material Friability
2 [-] Occupant Accessibility
3 [-] Material Condition
4 [-] Level Of Activity
5 [-] Number Of Assigned Occupants

TABLE 1206.5

COST ESTIMATE* - BUILDING 1206, CHAPLAIN SCHOOL AUD
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	TOTAL
Pipe Fittings (EA)						
<4"	70.30	0.7	-	-	0.4	1.1
4-8"	85.80	-	-	-	-	-
9-14"	147.00	-	-	-	-	-
>14"	216.00	-	-	-	-	-
Pipe Runs (LF)						
<4"	26.50	1.9	-	-	0.5	2.4
4-8"	30.50	-	-	-	-	-
9-14"	42.50	-	-	-	-	-
>14"	60.80	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	-	-	-
Boilers/Tanks (SF)	37.90	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-
Other		-	4.9	4.9	-	9.7
SUBTOTAL		2.6	4.9	4.9	1.0	13.2
Difficulty Allowance		-	-	-	-	-
SUBTOTAL		2.6	4.9	4.9	1.0	13.2
Decontamination Units		0.8	0.8	0.8	0.8	3.1
Mobilization		1.1	1.1	1.1	1.1	4.2
SUBTOTAL		4.4	6.7	6.7	2.8	20.5
Contingency @ 15.00%		0.7	1.0	1.0	0.4	3.1
SUBTOTAL		5.0	7.7	7.7	3.2	23.6
Design Fee @ 6.00%		0.3	0.5	0.5	0.2	1.4
SUBTOTAL		5.3	8.2	8.2	3.4	25.0
Air Monitoring		0.6	0.6	0.6	0.6	2.5
TOTAL		6.0	8.8	8.8	4.0	27.5

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: MENS DRESSING ROOM
AREA 3: STAIRS 2

AREA 2: STAIRS 1
AREA 4: WOMENS DRESSING ROOM

TABLE 1206.6

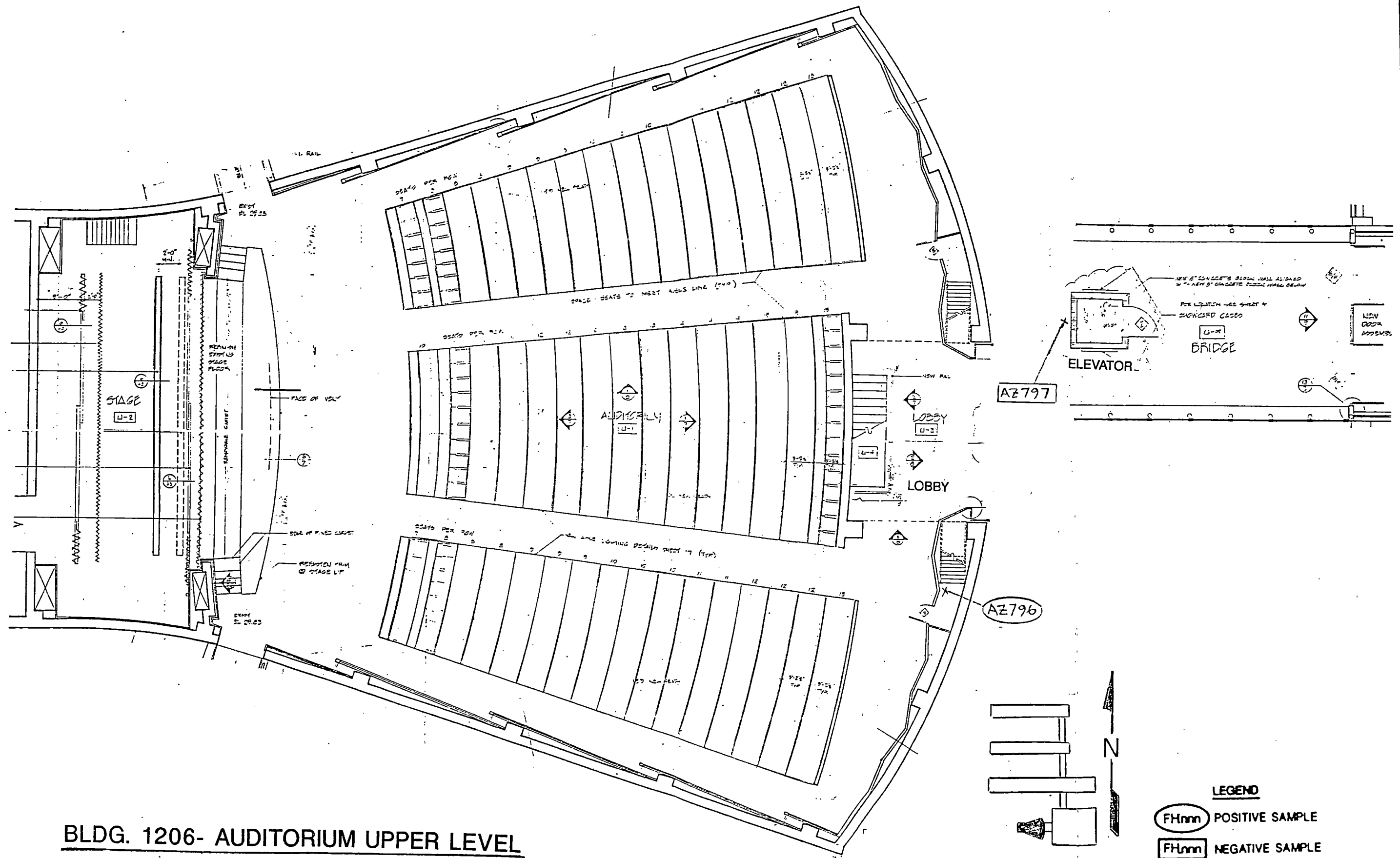
SUSPECT ASBESTOS-CONTAINING MATERIAL NOT SAMPLED - BUILDING 1206, CHAPLAIN SCHOOL AUD

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
BACK HALL	CEILING TILE MASTIC	0.04 (MSF)
KITCHEN	GREEN FLOOR TILE	0.06 (MSF)
LOBBY 2	CEILING BOARD	0.81 (MSF)
LOBBY 2	CEILING TILE MASTIC	0.54 (MSF)
MENS DRESSING ROOM	CEILING BOARD	0.28 (MSF)
MENS DRESSING ROOM	CEILING TILE MASTIC	0.26 (MSF)
PROJECTION BOOTH	CEILING BOARD	0.25 (MSF)
WOMENS DRESSING ROOM	CEILING BOARD	0.28 (MSF)

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

1206-7



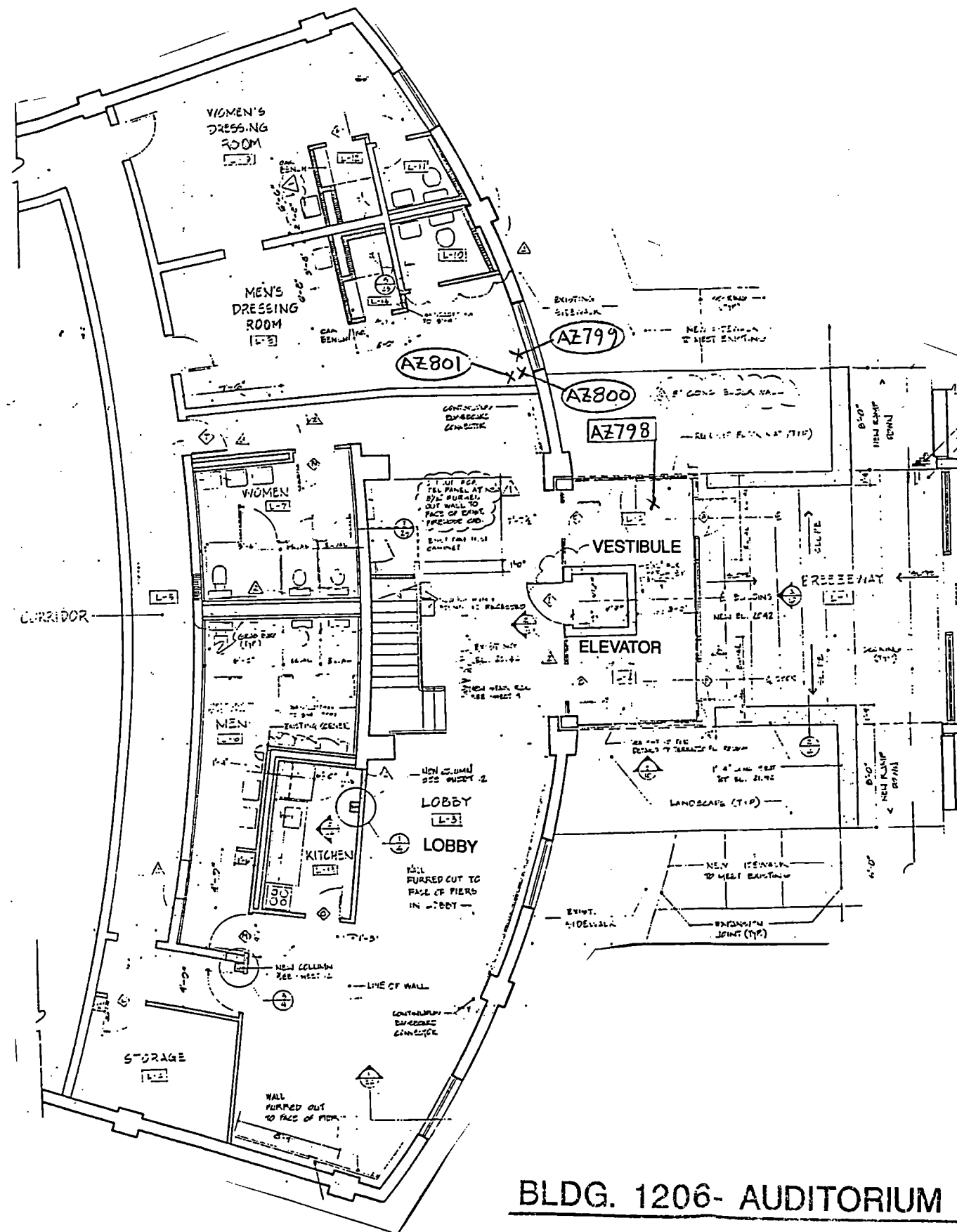
KEY PLAN

LEGEND

FHnnn POSITIVE SAMPLE

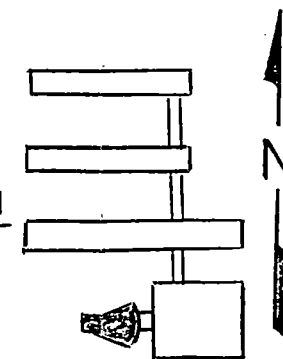
FHnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



BLDG. 1206- AUDITORIUM LOWER LEVEL

KEY PLAN



LEGEND

- FHmm POSITIVE SAMPLE
- FHmm NEGATIVE SAMPLE



1207

CHAPLAIN SCHOOL

1207.1 GENERAL

Building 1207 was surveyed by WESTON technicians on 28 November 1989 through 19 December 1989.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze ten samples of suspect material collected from the building. Of these samples, seven were found to be asbestos-containing materials (ACM). Table 1207.1 lists the analytical results for the bulk samples.

1207.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1207 are presented in Table 1207.1. An area-by-area inventory of ACM is provided in Table 1207.2 and 1207.3. "Other Asbestos-Containing Materials," listed in Table 1207.3, are materials which do not match the standard caption categories listed in Table 1207.2. A prioritized listing of exposure assessments is presented in Table 1207.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1207.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1207.2 and 1207.5.

1207.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Asbestos-containing material should be labeled under O&M Program.

TABLE 1207.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1207, CHAPLAIN SCHOOL
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			
				CH	AM	OT	LAYERED ^a
AZ805	OFFICE GROUND FLOOR, NA, BELOW CEILING	<4" PIPE FITTING	WHITE, UNK, FITTING, VERTICAL	7	-	-	YES
AZ806	OFFICE GROUND FLOOR, NA, ABOVE CEILING	<4" PIPE RUN	GRAY, UNK, PIPE RUN, HORIZONTAL	5	-	-	YES
AZ807	OFFICE GROUND FLOOR, NA, BELOW CEILING	FLOOR TILE	GRAY, OTH, FLOOR TILE, HORIZONTAL	10	-	-	YES
AZ808	STAIRS 2, NA, BELOW CEILING	FLOOR TILE	BLUE, OTH, FLOOR TILE, HORIZONTAL	3	-	-	YES
AZ809	LIBRARY FOYER, NA, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	3	-	-	YES
AZ810	LIBRARY FOYER, NA, BELOW CEILING	DUPLICATE SAMPLE	BROWN, OTH, FLOOR TILE, HORIZONTAL	15	-	-	NO
AZ811	LIBRARY, NA	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	YES
AZ812	STEAM PIT, NA, BELOW CEILING	BOILERS/TANKS	WHITE, STM, TANK, HORIZONTAL	-	-	-	YES
AZ813	STEAM PIT, NA	9-14" PIPE FITTING	WHITE, STM, FITTING	-	-	-	YES
AZ814	RESERVES OFFICE, NA, BELOW CEILING	FLOOR TILE	GREEN, OTH, FLOOR TILE, HORIZONTAL	7	-	-	YES

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C = Center
 N = North
 E = East
 S = South
 W = West
 NE = Northeast
 NW = Northwest
 SE = Southeast
 SW = Southwest

System Codes

STM = Steam
 CHW = Chilled Water
 HHW = Heating Hot Water
 DOM = Domestic Water
 OTH = Other
 UNK = Unknown

Asbestos Types

CH = Chrysotile
 AM = Amosite
 OT = Other

TABLE 1207.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1207, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
2ND FL OFFICE AREA	-	-	-	-	-	-	-	-	-	2.92	-	-	-
CORRIDOR 2	-	-	-	-	-	-	-	-	-	4.29	-	-	-
LIBRARY FOYER	-	-	-	-	-	-	-	-	-	0.18	-	-	-
OFFICE GROUND FLOOR	8	-	-	-	17	-	-	-	-	7.56	-	-	-
RESERVES OFFICE	-	-	-	-	-	-	-	-	-	0.54	-	-	-
STAIRS 2	-	-	-	-	-	-	-	-	-	0.42	-	-	-
TOTALS	8	-	-	-	17	-	-	-	-	15.90	-	-	-

* Other material present in various units of measure. See Table 1207.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 1207.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 1207, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
NO OTHER ASBESTOS-CONTAINING MATERIAL FOUND IN THIS BUILDING		

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

1207-4

TABLE 1207.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1207, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ805	OFFICE GROUND FLOOR	<4" PIPE FITTING	A	8.250E00	3	2	2	1	1	1.00	7
AZ806	OFFICE GROUND FLOOR	<4" PIPE RUN	A	5.250E-1	2	2	1	1	1	1.00	5
AZ811	LIBRARY	CEILING TILE	A	0	2	1	1	1	30	4.00	0
AZ812	STEAM PIT	BOILERS/TANKS	A	0	3	3	1	1	1	1.00	0
AZ813	STEAM PIT	9-14" PIPE FITTING	A	0	3	2	1	1	1	1.00	0

Priority Index Codes

A [-] Long Term Corrective Measure

B [-] Review Management Special Considerations/Remarks

C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [-] Material Friability

2 [-] Occupant Accessibility

3 [-] Material Condition

4 [-] Level Of Activity

5 [-] Number Of Assigned Occupants

TABLE 1207.5

COST ESTIMATE* - BUILDING 1207, CHAPLAIN SCHOOL
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	TOTAL
Pipe Fittings (EA)								
<4"	70.30	-	-	-	0.6	-	-	0.6
4-8"	85.80	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-
Pipe Runs (LF)								
<4"	26.50	-	-	-	0.5	-	-	0.5
4-8"	30.50	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	16.4	24.0	1.0	42.3	3.0	2.3	89.0
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
SUBTOTAL		16.4	24.0	1.0	43.3	3.0	2.3	90.1
Difficulty Allowance		-	-	-	-	-	-	-
SUBTOTAL		16.4	24.0	1.0	43.3	3.0	2.3	90.1
Decontamination Units		0.5	0.5	0.5	0.5	0.5	0.5	3.1
Mobilization		0.7	0.7	0.7	0.7	0.7	0.7	4.2
SUBTOTAL		17.6	25.2	2.2	44.6	4.2	3.5	97.4
Contingency @ 15.00%		2.6	3.8	0.3	6.7	0.6	0.5	14.6
SUBTOTAL		20.2	29.0	2.5	51.3	4.9	4.1	112.0
Design Fee @ 6.00%		1.2	1.7	0.2	3.1	0.3	0.2	6.7
SUBTOTAL		21.4	30.8	2.7	54.3	5.2	4.3	118.7
Air Monitoring		2.0	2.0	2.0	2.0	2.0	2.0	11.9
TOTAL		23.4	32.7	4.7	56.3	7.1	6.3	130.5

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: 2ND FL OFFICE AREA
AREA 3: LIBRARY FOYER
AREA 5: RESERVES OFFICE

AREA 2: CORRIDOR 2
AREA 4: OFFICE GROUND FLOOR
AREA 6: STAIRS 2

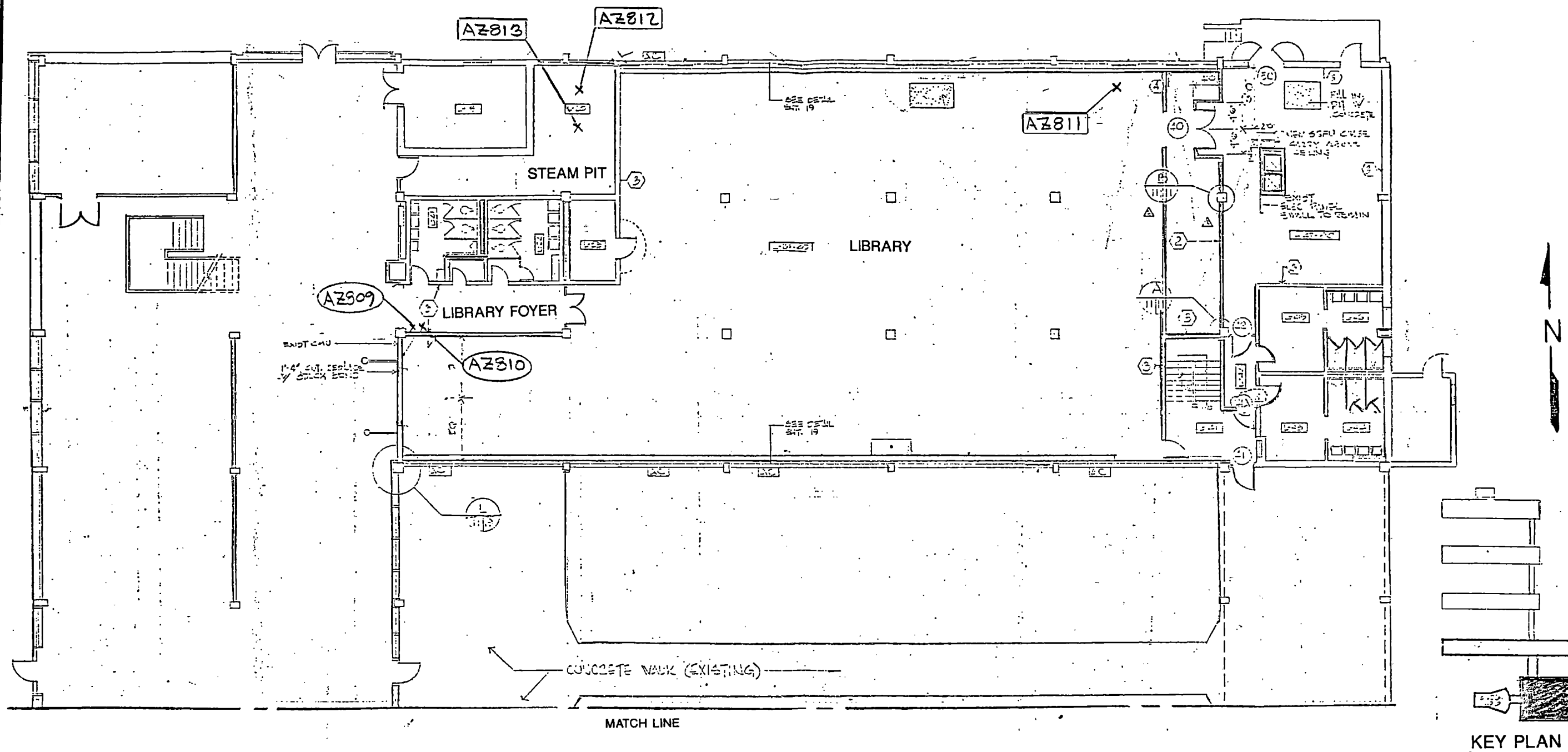
TABLE 1207.6

SUSPECT ASBESTOS-CONTAINING MATERIAL NOT SAMPLED - BUILDING 1207, CHAPLAIN SCHOOL

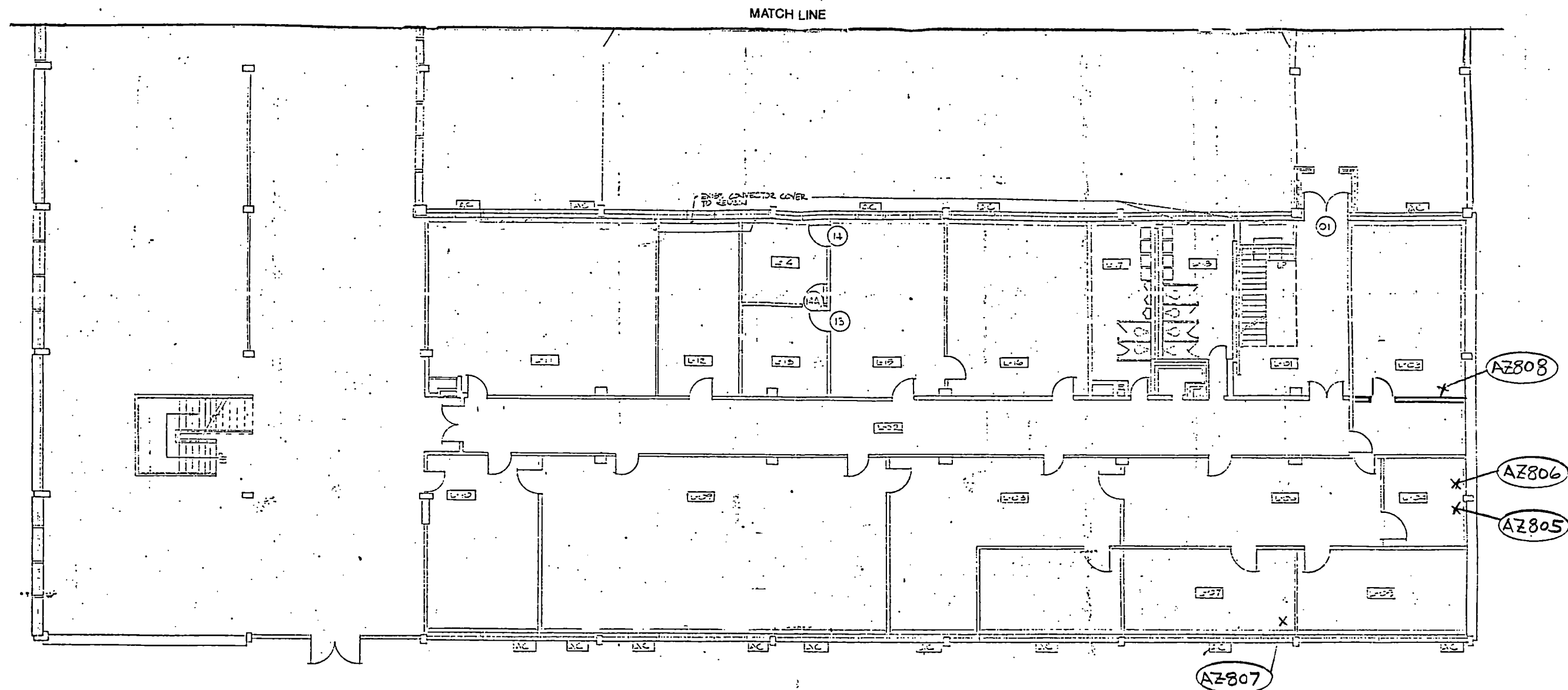
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
CHAPELS/DINING	BROWN FLOOR TILE	0.13 (MSF)
CLEANER ROOM	<4" PIPE FITTINGS	3 (EA)
CLEANER ROOM	<4" PIPE RUNS	14 (LF)
CORRIDOR 1	BLUE FLOOR TILE	3.96 (MSF)
CORRIDOR 2	CEILING TILE	4.18 (MSF)
LIBRARY	CEILING BOARD	5.00 (MSF)
MUSEUM	BLUE FLOOR TILE	4.50 (MSF)
MUSEUM	CEILING TILE	4.30 (MSF)
OFFICE GROUND FLOOR	CEILING BOARD	4.89 (MSF)
OFFICE GROUND FLOOR	CEILING TILE	7.99 (MSF)
OFFICE GROUND FLOOR	SPRAY MATERIAL	4.73 (MSF)
RESERVES OFFICE	CEILING TILE	0.54 (MSF)
SMALL CHAPEL	SPRAY MATERIAL	0.78 (MSF)
STAIRS 1	BLUE FLOOR TILE	0.15 (MSF)
2ND FL OFFICE AREA	CEILING BOARD	9.60 (MSF)
2ND FL OFFICE AREA	CEILING TILE	6.18 (MSF)
2ND FL OFFICE AREA	BLUE FLOOR TILE	5.74 (MSF)
2ND FL OFFICE AREA	CEILING TILE MASTIC	0.52 (MSF)
2ND FL OFFICE AREA	SPRAY MATERIAL	1.16 (MSF)

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet



BLDG. 1207- PARTIAL GROUND FLOOR PLAN



BLDG. 1207-PARTIAL GROUND FLOOR PLAN

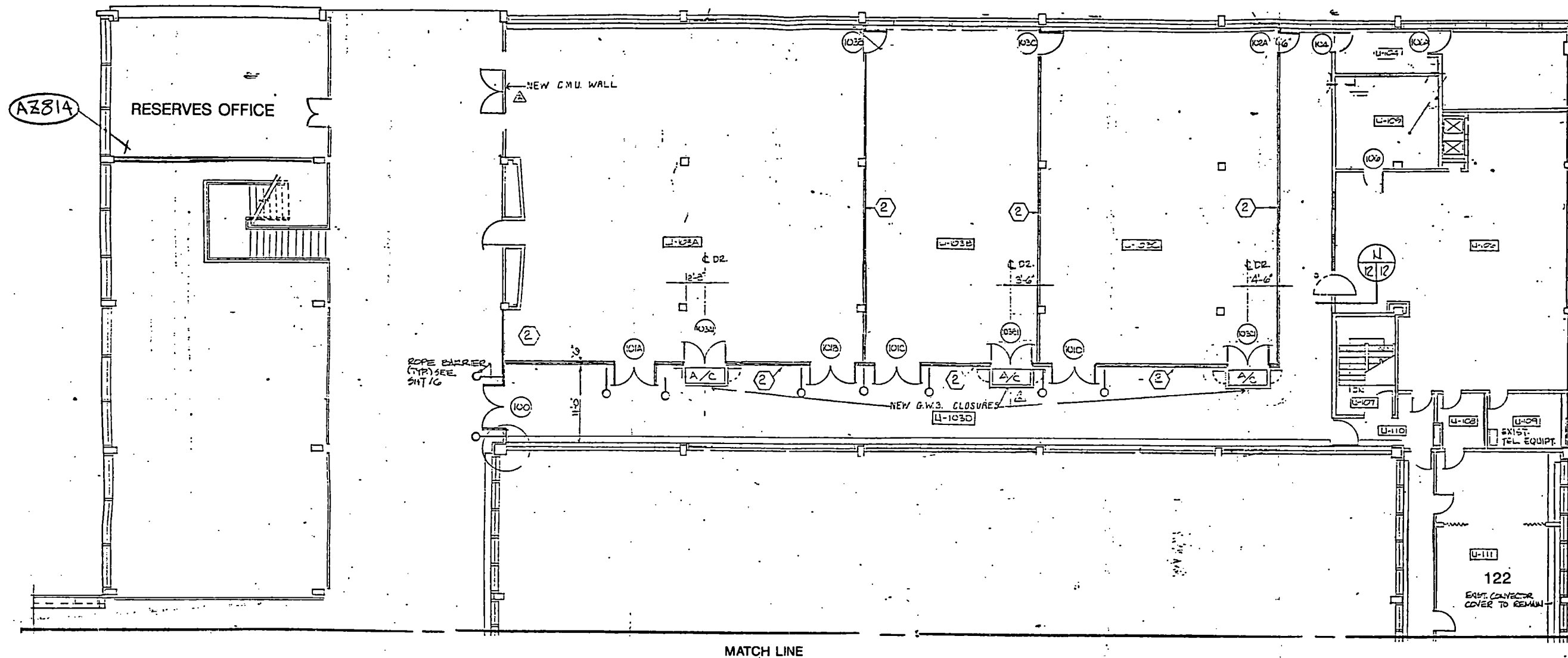
KEY PLAN

LEGEND

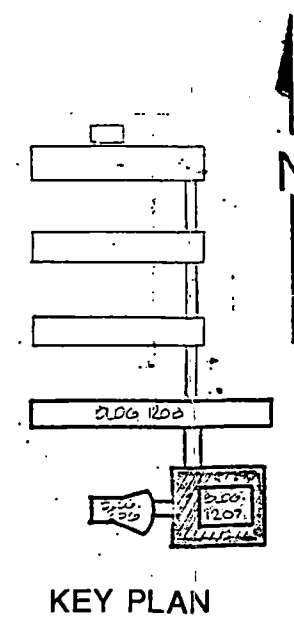
(FHnn) POSITIVE SAMPLE

[FHnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



BLDG. 1207-PARTIAL FIRST FLOOR PLAN



LEGEND

FHnn POSITIVE SAMPLE

FHnn NEGATIVE SAMPLE

WESTON

MANAGERS DESIGNERS CONSULTANTS

1208E

CHAPLAIN SCHOOL

1208E.1 GENERAL

Building 1208E was surveyed by WESTON technicians on 28 November 1989 through 19 December 1989.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze nine samples of suspect material collected from the building. Of these samples, five were found to be asbestos-containing materials (ACM). Table 1208E.1 lists the analytical results for the bulk samples.

1208E.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1208E are presented in Table 1208E.1. An area-by-area inventory of ACM is provided in Table 1208E.2 and 1208E.3. "Other Asbestos-Containing Materials," listed in Table 1208E.3, are materials which do not match the standard caption categories listed in Table 1208E.2. A prioritized listing of exposure assessments is presented in Table 1208E.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1208E.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1208E.2 and 1208E.5. Table 1208E.6 lists suspect materials which were not sampled due to the reported Asbestos Abatement Project performed prior to the survey.

1208E.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o ACM Transite Panel Board should be labeled under O&M Program.

TABLE 1208E.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1208E, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AZ728	B-01, B-02, B-04, B-07, NA	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ729	B-01, B-02, B-04, B-07, NA, BELOW CEILING	FLOOR TILE	GRAY, OTH, FLOOR TILE, HORIZONTAL	3	-	-	NO
AZ730	B-01, B-02, B-04, B-07, NA, BELOW CEILING	DUPLICATE SAMPLE	GRAY, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AZ731	B-05, B-06, NA	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ732	BASEMENT CORRIDOR, NA, BELOW CEILING	FLOOR TILE	WHITE, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AZ733	STAIRS 7, NA, BELOW CEILING	FLOOR TILE	GRAY, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AZ734	B-08, NA	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ735	FIRST FLOOR CORRIDOR, NA, BELOW CEILING	TRANSITE PANEL BOARD	OTHER, OTH, TRANSITE, VERTICAL	40	-	-	YES
AZ804	2-01, 2-02, 2-03, 2-04, NA	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	YES

^a Asbestos content presented for layered samples represents the highest concentration layer.Quadrant Codes

C = Center
 N = North
 E = East
 S = South
 W = West
 NE = Northeast
 NW = Northwest
 SE = Southeast
 SW = Southwest

System Codes

STM = Steam
 CHW = Chilled Water
 HHW = Heating Hot Water
 DOM = Domestic Water
 OTH = Other
 UNK = Unknown

Asbestos Types

CH = Chrysotile
 AM = Amosite
 OT = Other

TABLE 1208E.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1208E, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
1-01, 1-02, 1-03, 1-04	-	-	-	-	-	-	-	-	-	1.44	-	-	-
1-09	-	-	-	-	-	-	-	-	-	0.13	-	-	-
1-14, 1-08	-	-	-	-	-	-	-	-	-	2.71	-	-	-
1-22, 102, 1-06, 1-17	-	-	-	-	-	-	-	-	-	1.93	-	-	-
2-01, 2-02, 2-03, 2-04	-	-	-	-	-	-	-	-	-	1.20	-	-	-
2-05	-	-	-	-	-	-	-	-	-	0.29	-	-	-
2-09	-	-	-	-	-	-	-	-	-	0.60	-	-	-
2-10, 2-11, 2-13, 2-14	-	-	-	-	-	-	-	-	-	2.43	-	-	-
2-15, 2-16, 2-17, 2-18	-	-	-	-	-	-	-	-	-	2.90	-	-	-
3-01, 3-02, 3-03, 3-04	-	-	-	-	-	-	-	-	-	1.20	-	-	-
3-05	-	-	-	-	-	-	-	-	-	0.29	-	-	-
3-09, 3-10, 3-11, 3-12	-	-	-	-	-	-	-	-	-	1.74	-	-	-
3-14 THROUGH 3-20	-	-	-	-	-	-	-	-	-	4.68	-	-	-
B-01, B-02, B-04, B-07	-	-	-	-	-	-	-	-	-	4.60	-	-	-
B-03	-	-	-	-	-	-	-	-	-	0.39	-	-	-
B-05, B-06	-	-	-	-	-	-	-	-	-	1.45	-	-	-
B-08	-	-	-	-	-	-	-	-	-	0.58	-	-	-
BASEMENT CORRIDOR	-	-	-	-	-	-	-	-	-	1.70	-	-	-
FIRST FLOOR CORRIDOR	-	-	-	-	-	-	-	-	-	1.74	-	-	*
SECOND FLR CORRIDOR	-	-	-	-	-	-	-	-	-	1.74	-	-	*
STAIRS 7	-	-	-	-	-	-	-	-	-	0.83	-	-	-
STAIRS 8	-	-	-	-	-	-	-	-	-	0.67	-	-	-
STORAGE AREA	-	-	-	-	-	-	-	-	-	0.60	-	-	-
THIRD FLOOR CORRIDOR	-	-	-	-	-	-	-	-	-	1.84	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	37.67	-	-	*

* Other material present in various units of measure. See Table 1208E.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 1208E.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 1208E, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
FIRST FLOOR CORRIDOR	TRANSITE PANEL BOARD	1.74 (MSF)
SECOND FLR CORRIDOR	TRANSITE PANEL BOARD	1.74 (MSF)

MSF - Thousand Square Feet
LF - Linear Feet
EA - Each

TABLE 1208E.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1208E, CHAPLAIN SCHOOL
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ735	FIRST FLOOR CORRIDOR	TRANSITE PANEL BOARD	A	6.525E-3	1	1	2	1	30	1.00	40
AZ735	SECOND FLR CORRIDOR	TRANSITE PANEL BOARD	A	6.525E-3	1	1	2	1	30	1.00	40
AZ728	1-14,1-08	CEILING TILE	A	0	2	2	2	1	0	0.00	0
AZ728	3-01,3-02,3-03,3-04	CEILING TILE	A	0	2	2	2	1	0	0.00	0
AZ728	B-01,B-02,B-04,B-07	CEILING TILE	A	0	2	2	2	1	0	0.00	0
AZ728	B-05,B-06	CEILING TILE	A	0	2	2	2	1	0	0.00	0
AZ728	B-08	CEILING TILE	A	0	2	2	2	1	0	0.00	0
AZ731	B-05,B-06	CEILING TILE	A	0	2	2	2	1	0	0.00	0
AZ734	1-01,1-02,1-03,1-04	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	1-09	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	1-14,1-08	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	1-22,102,1-06,1-17	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	2-01,2-02,2-03,2-04	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	2-05	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	2-09	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	2-10,2-11,2-13,2-14	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	2-15,2-16,2-17,2-18	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	3-01,3-02,3-03,3-04	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	3-05	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	3-09,3-10,3-11,3-12	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	3-14 THROUGH 3-20	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	B-08	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	BASEMENT CORRIDOR	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	FIRST FLOOR CORRIDOR	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	LATRINE	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	LATRINE 2	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	LATRINE 3	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	SECOND FLR CORRIDOR	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ734	STORAGE AREA	CEILING BOARD	A	0	2	2	1	1	0	0.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 1208E.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1208E, CHAPLAIN SCHOOL
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ734	THIRD FLOOR CORRIDOR	CEILING BOARD	A	0	2	2	1	1	0	0.00	0
AZ804	2-01, 2-02, 2-03, 2-04	CEILING TILE	A	0	2	1	2	1	1	40.00	0
AZ804	2-05	CEILING TILE	A	0	2	1	2	1	1	40.00	0

Priority Index Codes

A [-] Long Term Corrective Measure
B [-] Review Management Special Considerations/Remarks
C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [-] Material Friability
2 [-] Occupant Accessibility
3 [-] Material Condition
4 [-] Level Of Activity
5 [-] Number Of Assigned Occupants

TABLE 1208E.5

COST ESTIMATE* - BUILDING 1208E, CHAPLAIN SCHOOL
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	8.1	0.7	15.2	10.8	6.7	1.6	3.4	13.6	16.2	6.7	1.6
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		8.1	0.7	15.2	10.8	6.7	1.6	3.4	13.6	16.2	6.7	1.6
Difficulty Allowance		4.0	0.4	7.6	5.4	3.4	0.8	1.7	6.8	8.1	3.4	0.8
SUBTOTAL		12.1	1.1	22.8	16.2	10.1	2.4	5.0	20.4	24.4	10.1	2.4
Decontamination Units		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		12.4	1.4	23.1	16.5	10.4	2.7	5.3	20.7	24.7	10.4	2.7
Contingency @ 15.00%		1.9	0.2	3.5	2.5	1.6	0.4	0.8	3.1	3.7	1.6	0.4
SUBTOTAL		14.3	1.6	26.5	19.0	11.9	3.1	6.1	23.8	28.4	11.9	3.1
Design Fee @ 6.00%		0.9	**	1.6	1.1	0.7	0.2	0.4	1.4	1.7	0.7	0.2
SUBTOTAL		15.1	1.7	28.1	20.1	12.7	3.3	6.5	25.3	30.1	12.7	3.3
Air Monitoring		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
TOTAL		16.9	3.5	29.9	21.9	14.4	5.1	8.3	27.0	31.8	14.4	5.1

*Amounts Are In Thousands Of Dollars

** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: 1-01,1-02,1-03,1-04
 AREA 3: 1-14,1-08
 AREA 5: 2-01,2-02,2-03,2-04
 AREA 7: 2-09
 AREA 9: 2-15,2-16,2-17,2-18
 AREA 11: 3-05

AREA 2: 1-09
 AREA 4: 1-22,102,1-06,1-17
 AREA 6: 2-05
 AREA 8: 2-10,2-11,2-13,2-14
 AREA 10: 3-01,3-02,3-03,3-04

TABLE 1208E.5

(continued)

COST ESTIMATE* - BUILDING 1208E, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 12	AREA 13	AREA 14	AREA 15	AREA 16	AREA 17	AREA 18	AREA 19	AREA 20	AREA 21	AREA 22
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	9.7	26.2	25.8	2.2	8.1	3.2	9.5	9.7	9.7	4.6	3.7
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	19.1	19.1	-	-
SUBTOTAL		9.7	26.2	25.8	2.2	8.1	3.2	9.5	28.9	28.9	4.6	3.7
Difficulty Allowance		4.9	13.1	-	-	-	-	-	9.6	14.4	-	-
SUBTOTAL		14.6	39.3	25.8	2.2	8.1	3.2	9.5	38.5	43.3	4.6	3.7
Decontamination Units		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		14.9	39.6	26.1	2.5	8.4	3.5	9.8	38.8	43.6	5.0	4.0
Contingency @ 15.00%		2.2	5.9	3.9	0.4	1.3	0.5	1.5	5.8	6.5	0.7	0.6
SUBTOTAL		17.2	45.6	30.0	2.9	9.7	4.1	11.3	44.6	50.2	5.7	4.6
Design Fee @ 6.00%		1.0	2.7	1.8	0.2	0.6	0.2	0.7	2.7	3.0	0.3	0.3
SUBTOTAL		18.2	48.3	31.8	3.0	10.3	4.3	12.0	47.2	53.2	6.0	4.9
Air Monitoring		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
TOTAL		19.9	50.0	33.5	4.8	12.0	6.1	13.7	49.0	54.9	7.8	6.7

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 12: 3-09, 3-10, 3-11, 3-12
 AREA 14: B-01, B-02, B-04, B-07
 AREA 16: B-05, B-06
 AREA 18: BASEMENT CORRIDOR
 AREA 20: SECOND FLR CORRIDOR
 AREA 22: STAIRS 8

AREA 13: 3-14 THROUGH 3-20
 AREA 15: B-03
 AREA 17: B-08
 AREA 19: FIRST FLOOR CORRIDOR
 AREA 21: STAIRS 7

TABLE 1208E.5

(continued)

COST ESTIMATE* - BUILDING 1208E, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 23	AREA 24	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	85.80	-	-	-
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	-	-	-
4-8"	30.50	-	-	-
9-14"	42.50	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	3.4	10.3	211.0
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	-	38.3
SUBTOTAL		3.4	10.3	249.2
Difficulty Allowance		-	5.2	89.5
SUBTOTAL		3.4	15.5	338.7
Decontamination Units		0.1	0.1	3.1
Mobilization		0.2	0.2	4.2
SUBTOTAL		3.7	15.8	346.0
Contingency @ 15.00%		0.5	2.4	51.9
SUBTOTAL		4.2	18.1	397.9
Design Fee @ 6.00%		0.3	1.1	23.9
SUBTOTAL		4.5	19.2	421.8
Air Monitoring		1.8	1.8	42.2
TOTAL		6.2	21.0	464.0

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 23: STORAGE AREA

AREA 24: THIRD FLOOR CORRIDOR

TABLE 1208E.6

SUSPECT ASBESTOS-CONTAINING MATERIAL NOT SAMPLED - BUILDING 1208E, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
1-01, 1-02, 1-03, 1-04	SPRAY MATERIAL	1.29 (MSF)
1-16, 1-17, 1-22, 102	SPRAY MATERIAL	0.86 (MSF)
FIRST FLOOR CORRIDOR	SPRAY MATERIAL	4.18 (MSF)
SECOND FLR CORRIDOR	SPRAY MATERIAL	5.50 (MSF)
2-10, 2-11, 2-13, 2-14	SPRAY MATERIAL	1.29 (MSF)
2-15, 2-16, 2-17, 2-18	SPRAY MATERIAL	1.73 (MSF)
2-01, 2-02, 2-03, 2-04	SPRAY MATERIAL	1.29 (MSF)
2-05	SPRAY MATERIAL	0.43 (MSF)
THIRD FLOOR CORRIDOR	SPRAY MATERIAL	5.53 (MSF)
3-14 THROUGH 3-20	SPRAY MATERIAL	3.03 (MSF)
3-09, 3-10, 3-11, 3-12	SPRAY MATERIAL	0.43 (MSF)
3-01 THROUGH 3-04	SPRAY MATERIAL	1.73 (MSF)

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

1208W

CHAPLAIN SCHOOL

1208W.1 GENERAL

Building 1208W was surveyed by WESTON technicians on 28 November 1989 through 19 December 1989.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze five samples of suspect material collected from the building. Of these samples, two were found to be asbestos-containing materials (ACM). Table 1208W.1 lists the analytical results for the bulk samples.

1208W.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1208W are presented in Table 1208W.1. An area-by-area inventory of ACM is provided in Table 1208W.2 and 1208W.3. "Other Asbestos-Containing Materials," listed in Table 1208W.3, are materials which do not match the standard caption categories listed in Table 1208W.2. A prioritized listing of exposure assessments is presented in Table 1208W.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1208W.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1208W.2 and 1208W.5. Table 1208W.6 lists suspect materials which were not sampled due to the reported Asbestos Abatement Project performed prior to the survey.

1208W.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o ACM should be labeled under O&M Program.

TABLE 1208W.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1208W, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
FOYER 1	-	-	-	-	-	-	-	-	-	0.12	-	-	-
G-01	-	-	-	-	-	-	-	-	-	0.70	-	-	-
G-03	-	-	-	-	-	-	-	-	-	0.98	-	-	-
G-04	-	-	-	-	-	-	-	-	-	0.68	-	-	-
G-06, G-08, G-12, G-14	-	-	-	-	-	-	-	-	-	3.00	-	-	-
G-07	-	-	-	-	-	-	-	-	-	0.59	-	-	-
G-09, G-15	-	-	-	-	-	-	-	-	-	2.20	-	-	-
G-16	-	-	-	-	-	-	-	-	-	0.24	-	-	-
G-17 AREA	-	-	-	-	-	-	-	-	-	1.56	-	-	-
G-20	-	-	-	-	-	-	-	-	-	0.55	-	-	-
G-21	-	-	-	-	-	-	-	-	-	0.48	-	-	-
G-24	-	-	-	-	-	-	-	-	-	0.78	-	-	-
SECOND FLOOR	-	-	-	-	-	-	-	-	-	15.60	-	-	-
STAIRS 1	-	-	-	-	-	-	-	-	-	0.85	-	-	-
STAIRS 2	-	-	-	-	-	-	-	-	-	0.85	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	29.19	-	-	-

* Other material present in various units of measure. See Table 1208W.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 1208W.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 1208W, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
NO OTHER ASBESTOS-CONTAINING MATERIAL FOUND IN THIS BUILDING		

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

1208W-4

TABLE 1208W.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1208W, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	%
					1	2	3	4	5		
AZ830	G-06,G-08,G-12,G-14	CEILING TILE	A	0	2	3	2	1	1	30.00	0

Priority Index Codes

A [-] Long Term Corrective Measure

B [-] Review Management Special Considerations/Remarks

C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [-] Material Friability

2 [-] Occupant Accessibility

3 [-] Material Condition

4 [-] Level Of Activity

5 [-] Number Of Assigned Occupants

TABLE 1208W.5

COST ESTIMATE* - BUILDING 1208W, CHAPLAIN SCHOOL
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	0.7	3.9	5.5	3.8	16.8	3.3	12.3	1.3	8.7	3.1	2.7
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		0.7	3.9	5.5	3.8	16.8	3.3	12.3	1.3	8.7	3.1	2.7
Difficulty Allowance		-	-	-	1.9	-	-	-	-	-	-	-
SUBTOTAL		0.7	3.9	5.5	5.7	16.8	3.3	12.3	1.3	8.7	3.1	2.7
Decontamination Units		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Mobilization		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
SUBTOTAL		1.2	4.4	6.0	6.2	17.3	3.8	12.8	1.8	9.2	3.6	3.2
Contingency @ 15.00%		0.2	0.7	0.9	0.9	2.6	0.6	1.9	0.3	1.4	0.5	0.5
SUBTOTAL		1.3	5.1	6.9	7.1	19.9	4.4	14.7	2.1	10.6	4.1	3.7
Design Fee @ 6.00%		**	0.3	0.4	0.4	1.2	0.3	0.9	0.1	0.6	0.2	0.2
SUBTOTAL		1.4	5.4	7.3	7.6	21.1	4.6	15.6	2.2	11.2	4.4	3.9
Air Monitoring		1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
TOTAL		2.8	6.8	8.7	9.0	22.5	6.1	17.0	3.6	12.6	5.8	5.3

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: FOYER 1
 AREA 3: G-03
 AREA 5: G-06, G-08, G-12, G-14
 AREA 7: G-09, G-15
 AREA 9: G-17 AREA
 AREA 11: G-21

AREA 2: G-01
 AREA 4: G-04
 AREA 6: G-07
 AREA 8: G-16
 AREA 10: G-20

TABLE 1208W.5

(continued)

COST ESTIMATE* - BUILDING 1208W, CHAPLAIN SCHOOL

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

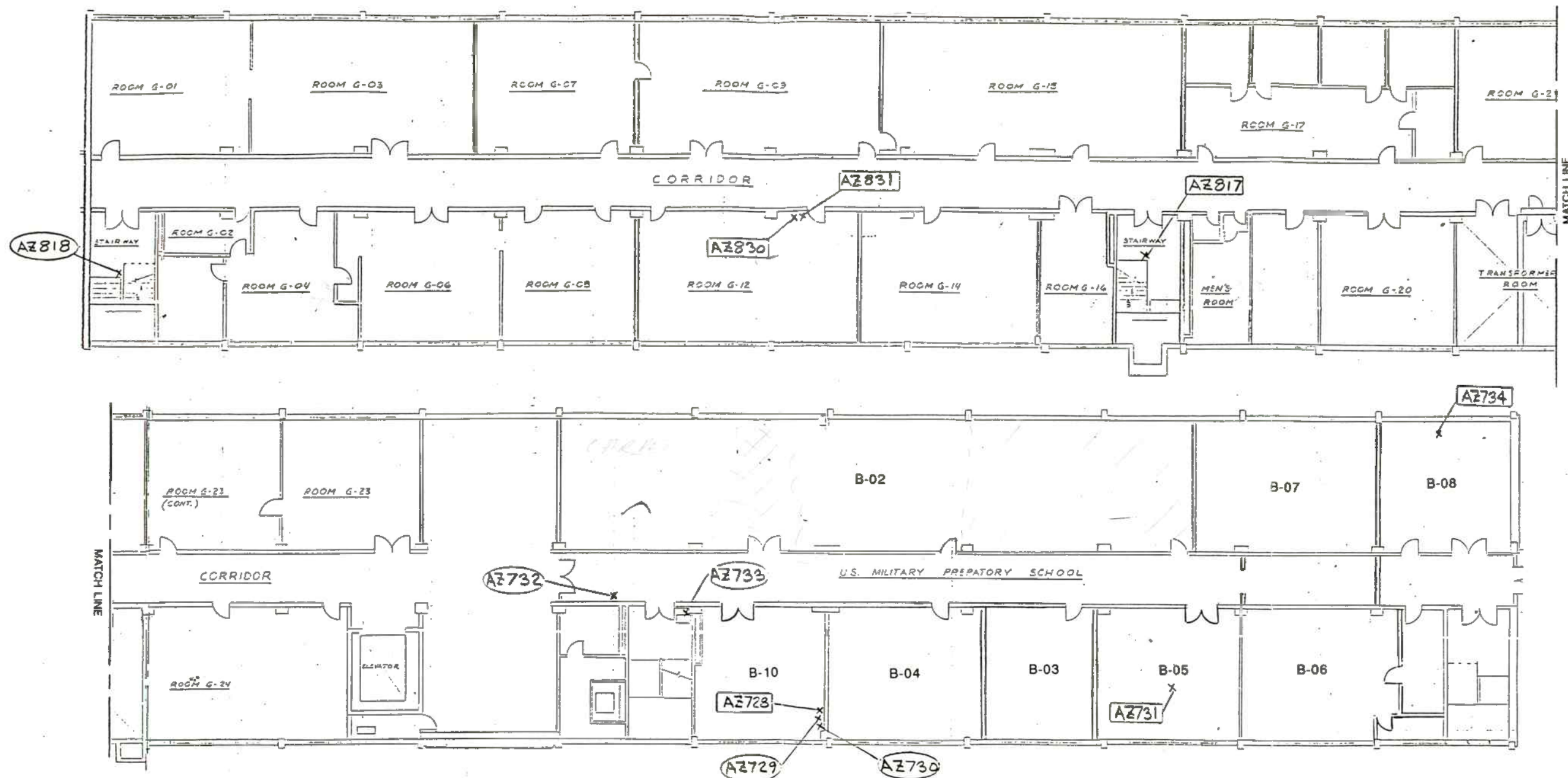
DESCRIPTION	UNIT COST (\$)	AREA 12	AREA 13	AREA 14	AREA 15	TOTAL
Pipe Fittings (EA)						
<4"	70.30	-	-	-	-	-
4-8"	85.80	-	-	-	-	-
9-14"	147.00	-	-	-	-	-
>14"	216.00	-	-	-	-	-
Pipe Runs (LF)						
<4"	26.50	-	-	-	-	-
4-8"	30.50	-	-	-	-	-
9-14"	42.50	-	-	-	-	-
>14"	60.80	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-
Floor Tile (SF)	5.60	4.4	87.4	4.7	4.7	163.5
Boilers/Tanks (SF)	37.90	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-
Other		-	-	-	-	-
SUBTOTAL		4.4	87.4	4.7	4.7	163.5
Difficulty Allowance		-	-	-	-	1.9
SUBTOTAL		4.4	87.4	4.7	4.7	165.4
Decontamination Units		0.2	0.2	0.2	0.2	3.1
Mobilization		0.3	0.3	0.3	0.3	4.2
SUBTOTAL		4.9	87.8	5.2	5.2	172.7
Contingency @ 15.00%		0.7	13.2	0.8	0.8	25.9
SUBTOTAL		5.6	101.0	6.0	6.0	198.6
Design Fee @ 6.00%		0.3	6.1	0.4	0.4	11.9
SUBTOTAL		5.9	107.1	6.4	6.4	210.5
Air Monitoring		1.4	1.4	1.4	1.4	21.0
TOTAL		7.3	108.5	7.8	7.8	231.5

*Amounts Are In Thousands Of Dollars

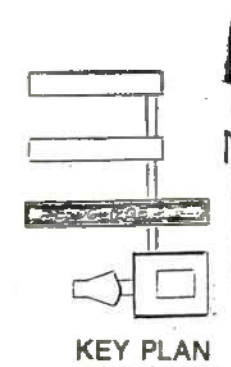
**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 12: G-24
AREA 14: STAIRS 1AREA 13: SECOND FLOOR
AREA 15: STAIRS 2

1208W-7



BLDG. 1208-GROUND FLOOR PLAN

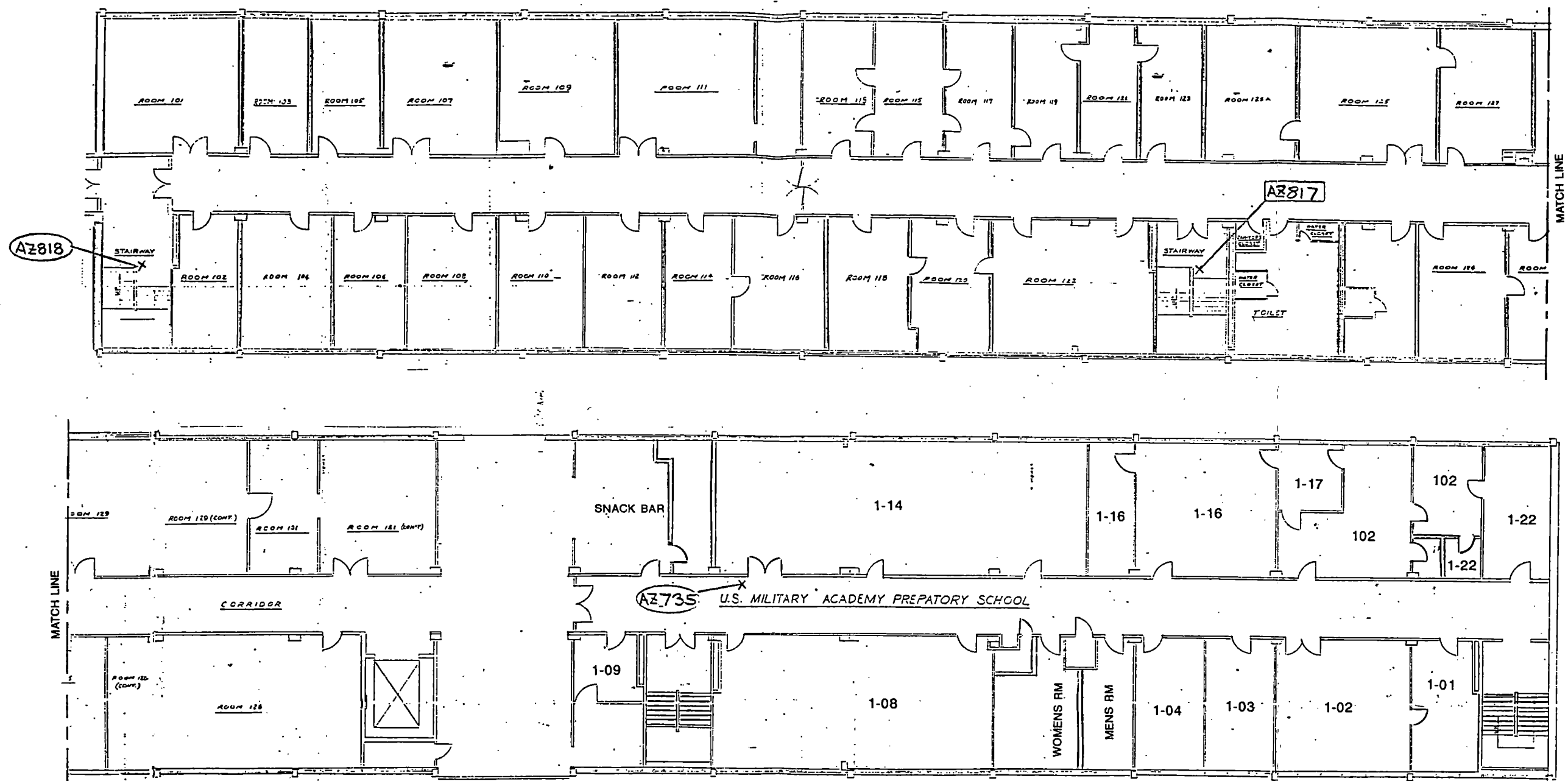


LEGEND

(FHnnn) POSITIVE SAMPLE

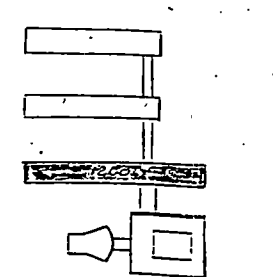
[FHnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



BLDG.-1208 FIRST FLOOR PLAN

KEY PLAN



LEGEND

POSITIVE SAMPLE

NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



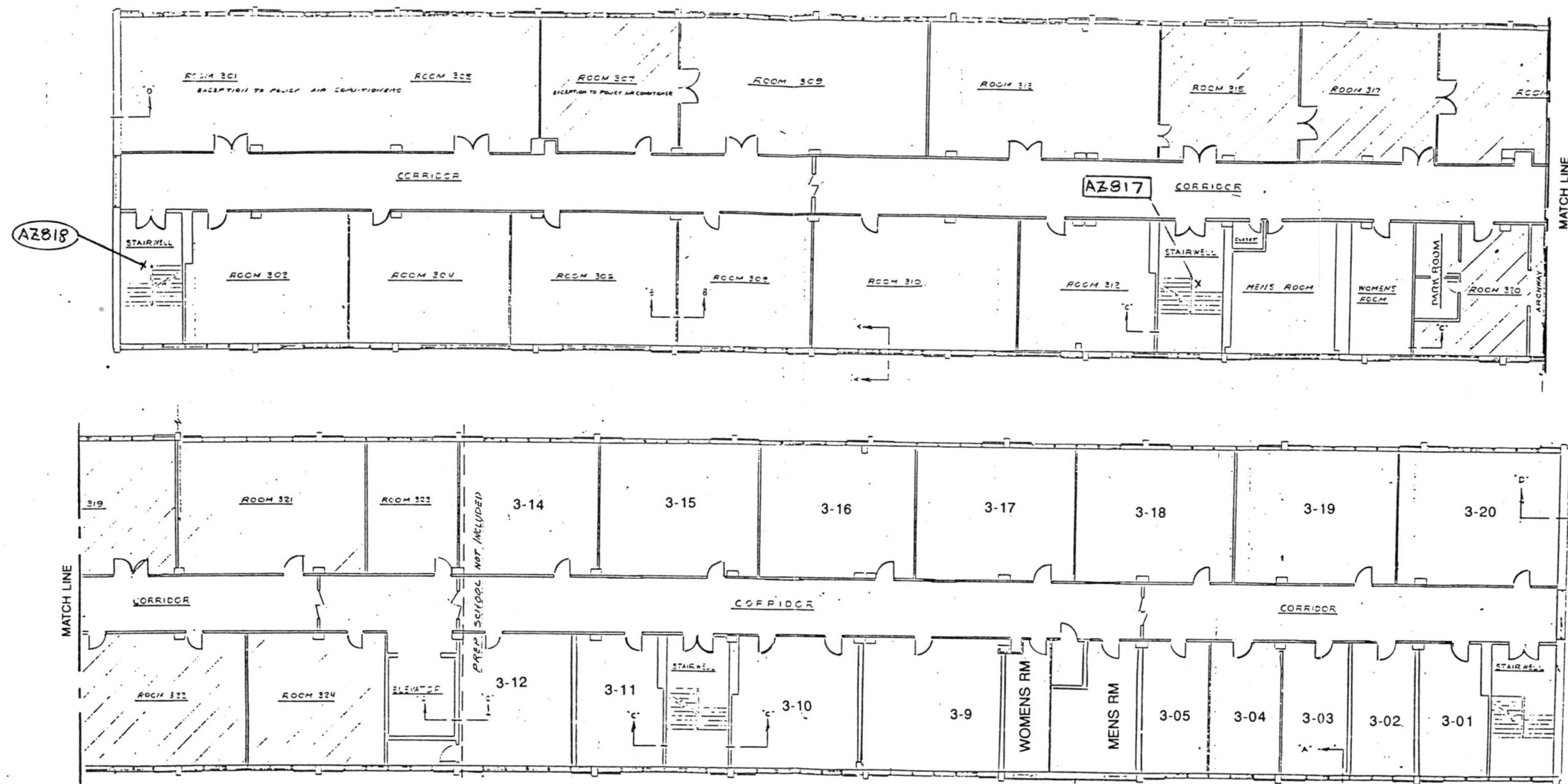
BLDG.-1208 SECOND FLOOR PLAN

KEY PLAN

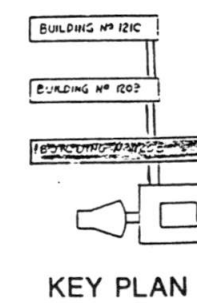
LEGEND

- FHnn POSITIVE SAMPLE
- FHnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS CONSULTANTS



BLDG.-1208 THIRD FLOOR PLAN



LEGEND

FHnnn POSITIVE SAMPLE

FHnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS CONSULTANTS

2000

OFFICER'S CLUB

2000.1 GENERAL

Building 2000 was surveyed by WESTON technicians on 3 January 1990 through 12 January 1990.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 2000.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 88 samples of suspect material collected from the building. Of these samples, 49 were found to be asbestos-containing materials (ACM). Table 2000.1 lists the analytical results for the bulk samples.

2000.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2000 are presented in Table 2000.1. An area-by-area inventory of ACM is provided in Table 2000.2 and 2000.3 "Other Asbestos-Containing Materials," listed in Table 2000.3, are materials which do not match the standard caption categories listed in Table 2000.2. A prioritized listing of exposure assessments is presented in Table 2000.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2000.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2000.2 and 2000.5.

2000.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o The following areas qualify for an Army Asbestos Deficiency Abatement Project (AADAP).
 - Bar Area
 - Ref. Storage
 - Liquor Rm/Mech. Rm.
 - Monmouth Mech. Rm.
 - Monmouth Storage
 - Employee Dining

- Snack Bar
 - Steam Generator Rm.
 - Boiler Rm. B1
 - Vestibule/Stair
 - Bar Area-Vestibule
 - Corridor B
 - Rooms B2, B3, B9, B10, B11, B12, B12A, B14, B15, and B16
- o Debris in Boiler Room B1 be cleaned using proper asbestos control techniques during the early stages of implementing an O&M Program until the AADAP is completed.
 - o ACM piping in the above listed rooms be labeled as a first step in implementing an O&M Program until the AADAP is completed.

TABLE 2000.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2000, OFFICER'S CLUB
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AZ876	BOILER RM B1, SE, BELOW CEILING	BOILERS/TANKS	GRAY, HHW, TANK, VERTICAL	-	-	-	NO
AZ877	BOILER RM B1, SE, BELOW CEILING	BOILERS/TANKS	GRAY, HHW, TANK, VERTICAL	-	-	-	NO
AZ878	BOILER RM B1, SE, BELOW CEILING	BOILERS/TANKS	GRAY, HHW, TANK, HORIZONTAL	30	-	-	NO
AZ879	BOILER RM B1, N, BELOW CEILING	SPRAYED/TROWELED MATERIAL	GRAY, OTH, FLUE PATCH, VERTICAL	-	-	-	NO
AZ880	BOILER RM B1, SW, BELOW CEILING	DEBRIS	GRAY, OTH, DEBRIS, HORIZONTAL	60	-	-	NO
AZ881	BOILER RM B1, SW, BELOW CEILING	DEBRIS	GRAY, OTH, DEBRIS, HORIZONTAL	60	-	-	NO
AZ882	BOILER RM B1, SW, BELOW CEILING	9-14" PIPE RUN	GRAY, HHW, PIPE RUN, HORIZONTAL	55	-	-	YES
AZ883	BOILER RM B1, SW, BELOW CEILING	DUPLICATE SAMPLE	GRAY, HHW, PIPE RUN, HORIZONTAL	40	-	-	YES
AZ884	BOILER RM B1, SW, BELOW CEILING	<4" PIPE RUN	TAN, HHW, PIPE RUN, VERTICAL	-	-	-	YES
AZ885	BOILER RM B1, SW, BELOW CEILING	<4" PIPE RUN	TAN, HHW, PIPE RUN, HORIZONTAL	-	-	-	YES
AZ886	BOILER RM B1, SW, BELOW CEILING	<4" PIPE FITTING	WHITE, HHW, FITTING, HORIZONTAL	45	-	-	NO
AZ887	BOILER RM B1, W, BELOW CEILING	DUPLICATE SAMPLE	WHITE, HHW, FITTING, HORIZONTAL	20	-	-	NO
AZ888	RM B6 & B5, N, BELOW CEILING	OTHER MATERIAL	WHITE, OTH, WALL MAT'L, VERTICAL	-	-	-	YES
AZ889	RM B2 & B3, N, BELOW CEILING	4-8" PIPE FITTING	WHITE, OTH, FITTING	40	-	-	NO
AZ890	STEAM GENERATOR RM, S, BELOW CEILING	4-8" PIPE RUN	GRAY, HHW, PIPE RUN, VERTICAL	45	-	-	YES
AZ891	STEAM GENERATOR RM, S, BELOW CEILING	<4" PIPE RUN	GRAY, HHW, PIPE RUN, VERTICAL	35	-	-	NO
AZ892	STEAM GENERATOR RM, S, BELOW CEILING	4-8" PIPE FITTING	GRAY, HHW, FITTING, VERTICAL	40	-	-	NO
AZ893	STEAM GENERATOR RM, S, BELOW CEILING	4-8" PIPE RUN	GRAY, HHW, PIPE RUN, VERTICAL	15	-	-	YES
AZ894	STEAM GENERATOR RM, S, BELOW CEILING	9-14" PIPE FITTING	GRAY, HHW, FITTING, VERTICAL	40	-	-	NO
AZ895	STEAM GENERATOR RM, S, BELOW CEILING	9-14" PIPE RUN	GRAY, HHW, PIPE RUN, VERTICAL	55	-	-	YES
AZ896	STEAM GENERATOR RM, S, BELOW CEILING	DUPLICATE SAMPLE	GRAY, HHW, PIPE RUN, VERTICAL	40	-	-	NO
AZ897	STEAM GENERATOR RM, S, BELOW CEILING	9-14" PIPE FITTING	GRAY, HHW, FITTING, VERTICAL	25	-	-	YES
AZ898	STEAM GENERATOR RM, W, BELOW CEILING	4-8" PIPE FITTING	GRAY, HHW, FITTING, VERTICAL	-	-	-	YES
AZ899	ELECTRIC SERVICE RM, N, BELOW CEILING	<4" PIPE RUN	TAN, HHW, PIPE RUN, HORIZONTAL	-	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes
 C - Center
 N - North
 E - East
 S - South
 W - West
 NE - Northeast
 NW - Northwest
 SE - Southeast
 SW - Southwest

System Codes
 STM - Steam
 CHW - Chilled Water
 HHW - Heating Hot Water
 DOM - Domestic Water
 OTH - Other
 UNK - Unknown

Asbestos Types
 CH - Chrysotile
 AM - Amosite
 OT - Other

TABLE 2000.1
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2000, OFFICER'S CLUB
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			
				CH	AM	OT	LAYERED ^a
AZ900	ELECTRIC SERVICE RM, S, BELOW CEILING	AIR HANDLING EQUIPMENT	WHITE, OTH, DUCT	30	-	-	NO
AZ901	CORRIDOR B, N, BELOW CEILING	<4" PIPE FITTING	GRAY, HHW, FITTING, VERTICAL	-	-	-	YES
AZ902	CORRIDOR B, N, BELOW CEILING	DUPLICATE SAMPLE	GRAY, HHW, FITTING, VERTICAL	-	-	-	NO
AZ903	CORRIDOR B, W, BELOW CEILING	<4" PIPE FITTING	GRAY, HHW, FITTING, VERTICAL	35	-	-	YES
AZ904	CORRIDOR B, W, BELOW CEILING	<4" PIPE RUN	GRAY, HHW, PIPE RUN, VERTICAL	3	-	-	YES
AZ905	CORRIDOR B, W, BELOW CEILING	4-8" PIPE FITTING	WHITE, CHW, FITTING, HORIZONTAL	-	-	-	YES
AZ906	RM B11, W, BELOW CEILING	4-8" PIPE FITTING	WHITE, CHW, FITTING, HORIZONTAL	-	-	-	YES
AZ907	RM B11, N, BELOW CEILING	AIR HANDLING EQUIPMENT	TAN, OTH, DUCT, HORIZONTAL	60	-	-	NO
AZ908	RM B11, N, BELOW CEILING	EXPANSION JOINT(S)	WHITE, OTH, CLOTH	50	-	-	NO
AZ909	CORRIDOR C, N, BELOW CEILING	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ910	BAR AREA, SW, BELOW CEILING	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ911	BAR AREA, N, BELOW CEILING	<4" PIPE RUN	WHITE, DOM, PIPE RUN, HORIZONTAL	45	-	-	YES
AZ912	BAR AREA, N, BELOW CEILING	4-8" PIPE RUN	GRAY, HHW, PIPE RUN, HORIZONTAL	50	-	-	YES
AZ913	BAR AREA, N, BELOW CEILING	4-8" PIPE FITTING	WHITE, HHW, FITTING, HORIZONTAL	35	-	-	YES
AZ914	BAR AREA, N, BELOW CEILING	9-14" PIPE RUN	GRAY, HHW, PIPE RUN, HORIZONTAL	40	-	-	YES
AZ915	BAR AREA, N, BELOW CEILING	<4" PIPE RUN	GRAY, HHW, PIPE RUN, HORIZONTAL	5	-	-	YES
AZ916	BAR AREA, N, BELOW CEILING	DUPLICATE SAMPLE	GRAY, HHW, PIPE RUN, HORIZONTAL	15	-	-	NO
AZ917	BAR AREA, N, BELOW CEILING	OTHER MATERIAL	WHITE, OTH, WALL MAT'L, VERTICAL	-	-	-	YES
AZ918	BAR AREA, N, BELOW CEILING	OTHER MATERIAL	WHITE, OTH, SHEETROCK, HORIZONTAL	-	-	-	YES
AZ919	BAR AREA, N, BELOW CEILING	OTHER MATERIAL	WHITE, OTH, PLASTER, HORIZONTAL	-	-	-	YES
AZ920	BAR AREA, N, BELOW CEILING	FLOOR TILE	TAN, OTH, FLOOR TILE, HORIZONTAL	3	-	-	NO
AZ921	BAR AREA, N, BELOW CEILING	FLOOR TILE	TAN, OTH, FLOOR TILE, HORIZONTAL	3	-	-	NO
AZ922	BAR AREA, N, BELOW CEILING	DUPLICATE SAMPLE	TAN, OTH, FLOOR TILE, HORIZONTAL	2	-	-	NO
AZ923	BAR AREA, C, BELOW CEILING	SPRAYED/TROWELED MATERIAL	BROWN, OTH, MASTIC, HORIZONTAL	-	-	-	YES

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes
C - Center
N - North
E - East
S - South
W - West
NE - Northeast
NW - Northwest
SE - Southeast
SW - Southwest

System Codes
STM - Steam
CHW - Chilled Water
HHW - Heating Hot Water
DOM - Domestic Water
OTH - Other
UNK - Unknown

Asbestos Types
CH - Chrysotile
AM - Amosite
OT - Other

TABLE 2000.1
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AZ924	BAR AREA, C, BELOW CEILING	DUPLICATE SAMPLE	BROWN, OTH, MASTIC, HORIZONTAL	-	-	-	YES
AZ925	SNACK BAR, W, BELOW CEILING	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	YES
AZ926	RM B13, W, BELOW CEILING	DEBRIS	BROWN, OTH, DEBRIS, HORIZONTAL	50	-	2	NO
AZ927	LIQUOR RM/MECH RM, N, BELOW CEILING	4-8" PIPE RUN	GRAY, HHW, PIPE RUN, HORIZONTAL	65	-	-	YES
AZ928	LIQUOR RM/MECH RM, N, BELOW CEILING	<4" PIPE RUN	GRAY, DOM, PIPE RUN, HORIZONTAL	65	-	-	YES
AZ929	LIQUOR RM/MECH RM, N, BELOW CEILING	<4" PIPE FITTING	GRAY, DOM, FITTING, HORIZONTAL	50	-	-	NO
AZ930	LIQUOR RM/MECH RM, N, BELOW CEILING	4-8" PIPE RUN	GRAY, DOM, PIPE RUN, HORIZONTAL	3	-	<1	YES
AZ931	LIQUOR RM/MECH RM, N, BELOW CEILING	DUPLICATE SAMPLE	GRAY, DOM, PIPE RUN, HORIZONTAL	10	-	-	NO
AZ932	LIQUOR RM/MECH RM, N, BELOW CEILING	4-8" PIPE RUN	GRAY, HHW, PIPE RUN, HORIZONTAL	65	-	-	YES
AZ933	LIQUOR RM/MECH RM, N, BELOW CEILING	DUPLICATE SAMPLE	GRAY, HHW, PIPE RUN, HORIZONTAL	30	-	-	YES
AZ934	LIQUOR RM/MECH RM, N, BELOW CEILING	4-8" PIPE FITTING	GRAY, HHW, FITTING, HORIZONTAL	50	-	-	NO
AZ935	LIQUOR RM/MECH RM, N, BELOW CEILING	4-8" PIPE FITTING	GRAY, DOM, FITTING, HORIZONTAL	-	-	-	YES
AZ936	LIQUOR RM/MECH RM, N, BELOW CEILING	4-8" PIPE FITTING	GRAY, CHW, FITTING, HORIZONTAL	<1	-	-	YES
AZ937	BAR AREA-VESTIBULE, N, ABOVE CEILING	4-8" PIPE FITTING	GRAY, HHW, FITTING, HORIZONTAL	40	-	-	NO
AZ938	BAR AREA-VESTIBULE, N, ABOVE CEILING	4-8" PIPE FITTING	GRAY, HHW, FITTING, HORIZONTAL	10	-	-	NO
AZ939	VESTIBULE/STAIR, N, ABOVE CEILING	4-8" PIPE RUN	GRAY, HHW, PIPE RUN, HORIZONTAL	30	-	-	YES
AZ940	VESTIBULE/STAIR, N, ABOVE CEILING	4-8" PIPE RUN	GRAY, HHW, PIPE RUN, HORIZONTAL	40	-	-	YES
AZ941	VESTIBULE/STAIR, N, ABOVE CEILING	DUPLICATE SAMPLE	GRAY, HHW, PIPE RUN, HORIZONTAL	35	-	-	YES
AZ942	LOCKER RM 1, N, ABOVE CEILING	4-8" PIPE FITTING	GRAY, HHW, FITTING, HORIZONTAL	-	-	-	NO
AZ943	LOCKER RM 1, S, BELOW CEILING	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ944	STORAGE 106, NE, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AZ945	CORRIDOR 106A, S, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AZ946	KITCHEN, NE, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	1	-	-	NO
AZ947	STORAGE 106, E, BELOW CEILING	OTHER MATERIAL	WHITE, OTH, PLASTER, VERTICAL	-	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C = Center
N = North
E = East
S = South
W = West
NE = Northeast
NW = Northwest
SE = Southeast
SW = Southwest

System Codes

STM = Steam
CHW = Chilled Water
HHW = Heating Hot Water
DOM = Domestic Water
OTH = Other
UNK = Unknown

Asbestos Types

CH = Chrysotile
AM = Amosite
OT = Other

TABLE 2000.1
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AZ948	CORRIDOR 106A, E, BELOW CEILING	OTHER MATERIAL	WHITE, OTH, PLASTER, HORIZONTAL	-	-	-	NO
AZ949	HALL 101, N, BELOW CEILING	OTHER MATERIAL	WHITE, OTH, SHEETROCK, HORIZONTAL	-	-	-	YES
AZ950	EMPLOYEE DINING, E, BELOW CEILING	4-8" PIPE FITTING	WHITE, HHW, FITTING, VERTICAL	-	-	-	NO
AZ951	KITCHEN, W, BELOW CEILING	FLOOR TILE	RED, OTH, FLOORING, HORIZONTAL	-	-	-	NO
AZ952	KITCHEN, NE, BELOW CEILING	FLOOR TILE	RED, OTH, FLOORING, HORIZONTAL	-	-	-	NO
AZ953	KITCHEN, NE, BELOW CEILING	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ954	BALLROOM CORRIDOR, N, BELOW CEILING	CEILING TILE	WHITE, OTH, SHEETROCK, VERTICAL	-	-	-	NO
AZ955	SAPPHIRE BALLROOM II, NW, BELOW CEILING	CEILING TILE	TAN, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ956	SAPPHIRE BALLROOM 2, NW, BELOW CEILING	CEILING TILE	TAN, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ957	SAPPHIRE BALLROOM II, NW, BELOW CEILING	DUPLICATE SAMPLE	TAN, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ958	KITCHEN, S, BELOW CEILING	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	YES
AZ959	KITCHEN, S, BELOW CEILING	DUPLICATE SAMPLE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ960	DINING RM, N, BELOW CEILING	CEILING TILE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AZ961	MONMOUTH STORAGE, S, BELOW CEILING	FLOOR TILE	GRAY, OTH, FLOOR TILE, HORIZONTAL	2	-	-	YES
AZ962	MONMOUTH STORAGE, N, BELOW CEILING	DUPLICATE SAMPLE	GRAY, OTH, FLOOR TILE, HORIZONTAL	2	-	-	YES
AZ963	MONMOUTH STORAGE, N, BELOW CEILING	DUPLICATE SAMPLE	TAN, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C - Center
N - North
E - East
S - South
W - West
NE - Northeast
NW - Northwest
SE - Southeast
SW - Southwest

System Codes

STM - Steam
CHW - Chilled Water
HHW - Heating Hot Water
DOM - Domestic Water
OTH - Other
UNK - Unknown

Asbestos Types

CH - Chrysotile
AM - Amosite
OT - Other

TABLE 2000.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
ATTIC AREA 3	-	-	-	-	-	-	-	-	-	-	-	-	*
BAR AREA	-	4	-	-	98	56	4	-	-	1.44	-	-	-
BAR AREA-VESTIBULE	-	19	-	-	-	-	-	-	-	-	-	-	-
BOILER RM B1	3	-	-	-	-	-	11	-	-	-	0.02	-	*
CORRIDOR B	2	-	-	-	10	-	-	-	-	-	-	-	-
ELECTRIC SERVICE RM	-	-	-	-	-	-	-	-	-	-	-	0.03	-
EMPLOYEE DINING	-	-	-	-	-	14	-	-	-	-	-	-	-
FIRE DEPT RM	-	12	-	-	10	42	-	-	-	-	-	-	-
KITCHEN	-	-	-	-	-	-	-	-	-	0.18	-	-	-
LIQUOR RM/MECH RM	41	40	23	-	100	230	80	-	-	-	-	-	-
LOCKER RM 1	-	72	-	-	150	670	-	-	-	-	-	-	-
LOCKER RM 2	-	45	-	-	110	280	-	-	-	-	-	-	-
MONMOUTH MECH RM	-	-	-	-	-	-	-	-	-	-	-	-	*
MONMOUTH STORAGE	-	-	-	-	-	-	-	-	-	0.78	-	-	*
REF STORAGE	-	-	-	-	-	20	-	-	-	-	-	-	-
RM B11	3	-	-	-	78	-	30	-	-	-	-	0.07	*
RM B12	-	4	6	-	15	12	35	-	-	-	-	-	-
RM B12A	-	4	6	-	15	12	35	-	-	-	-	-	-
RM B13	-	12	6	-	-	-	28	-	-	-	-	-	*
RM B14	-	12	-	-	16	48	-	-	-	-	-	-	-
RM B15	-	1	-	-	-	14	-	-	-	-	-	-	-
RM B16	6	2	-	-	16	8	-	-	-	-	-	-	-
RM B2 & B3	-	2	-	-	-	-	-	-	-	-	-	-	-
RM B8 & B7	4	-	-	-	12	-	-	-	-	-	-	-	-
RM B9 & B10	4	-	6	-	36	-	4	-	-	-	-	-	-
SNACK BAR	6	2	2	-	40	48	24	-	-	-	-	-	-
STEAM GENERATOR RM	-	1	2	-	1	12	10	-	-	-	-	-	-
VESTIBULE/STAIR	7	-	-	-	60	42	40	-	-	-	-	-	-
TOTALS	76	232	51	-	767	1508	301	-	-	2.40	0.02	0.10	*

* Other material present in various units of measure. See Table 2000.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 2000.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
ATTIC AREA 3	EXPANSION JOINT	1 (EA)
BOILER RM B1	DEBRIS	0.03 (MSF)
MONMOUTH MECH RM	EXPANSION JOINT	1 (EA)
MONMOUTH STORAGE	EXPANSION JOINT	1 (EA)
RM B11	EXPANSION JOINT	1 (EA)
RM B13	DEBRIS	0.01 (MSF)

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

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TABLE 2000.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ914	BAR AREA	9-14" PIPE RUN	C	5.625E05	2	3	2	2	50	30.00	40
AZ940	REF STORAGE	4-8" PIPE RUN	C	2.250E05	2	3	2	2	15	40.00	40
AZ913	BAR AREA	4-8" PIPE FITTING	C	1.987E05	2	3	2	2	50	30.00	35
AZ927	LIQUOR RM/MECH RM	4-8" PIPE RUN	C	1.660E05	3	3	2	2	2	40.00	65
AZ908	MONMOUTH MECH RM	EXPANSION JOINTS	C	1.500E05	3	3	1	2	10	20.00	50
AZ908	MONMOUTH STORAGE	EXPANSION JOINTS	C	1.500E05	3	3	1	2	10	20.00	50
AZ940	EMPLOYEE DINING	4-8" PIPE RUN	C	5.700E04	2	2	1	2	30	40.00	40
AZ891	RM B11	<4" PIPE RUN	C	4.400E04	3	2	2	2	4	40.00	35
AZ891	RM B12	<4" PIPE RUN	C	4.400E04	3	2	2	2	4	40.00	35
AZ891	RM B12A	<4" PIPE RUN	C	4.400E04	3	2	2	2	4	40.00	35
AZ891	BAR AREA	<4" PIPE RUN	C	3.450E04	2	2	1	2	50	40.00	35
AZ915	BAR AREA	<4" PIPE RUN	C	3.450E04	2	3	2	2	50	30.00	5
AZ903	SNACK BAR	<4" PIPE FITTING	C	3.300E04	3	2	2	2	3	40.00	35
AZ913	SNACK BAR	4-8" PIPE FITTING	C	3.300E04	3	2	2	2	3	40.00	35
AZ916	SNACK BAR	4-8" PIPE RUN	C	3.300E04	3	2	2	2	3	40.00	15
AZ928	LIQUOR RM/MECH RM	<4" PIPE RUN	C	3.000E04	2	3	2	2	2	40.00	65
AZ895	SNACK BAR	9-14" PIPE RUN	C	1.590E04	2	2	2	2	3	40.00	55
AZ893	RM B16	4-8" PIPE RUN	C	1.100E04	3	2	2	2	2	20.00	15
AZ912	RM B15	4-8" PIPE RUN	C	1.060E04	2	2	2	2	2	40.00	50
AZ914	LIQUOR RM/MECH RM	9-14" PIPE RUN	C	1.060E04	2	2	2	2	2	40.00	40
AZ929	LIQUOR RM/MECH RM	<4" PIPE FITTING	C	1.060E04	2	2	2	2	2	40.00	50
AZ932	LIQUOR RM/MECH RM	4-8" PIPE RUN	C	1.060E04	2	2	2	2	2	40.00	65
AZ934	LIQUOR RM/MECH RM	4-8" PIPE FITTING	C	1.060E04	2	2	2	2	2	40.00	50
AZ890	STEAM GENERATOR RM	4-8" PIPE RUN	C	1.037E04	3	3	2	2	1	5.00	45
AZ892	RM B12A	4-8" PIPE FITTING	C	1.037E04	3	3	2	2	1	5.00	40
AZ894	RM B9 & B10	9-14" PIPE FITTING	C	1.037E04	3	3	2	2	1	5.00	40
AZ895	RM B11	9-14" PIPE RUN	C	1.037E04	3	3	2	2	1	5.00	55
AZ895	RM B12	9-14" PIPE RUN	C	1.037E04	3	3	2	2	1	5.00	55
AZ895	RM B12A	9-14" PIPE RUN	C	1.037E04	3	3	2	2	1	5.00	55

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

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TABLE 2000.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ880	BOILER RM B1	DEBRIS	C	7.500E03	3	2	2	2	2	5.00	60
AZ886	BOILER RM B1	<4" PIPE FITTING	C	7.500E03	3	2	2	2	2	5.00	45
AZ889	RM B2 & B3	4-8" PIPE FITTING	C	7.500E03	3	2	2	2	2	5.00	40
AZ895	RM B9 & B10	9-14" PIPE RUN	C	7.500E03	3	2	2	2	2	5.00	55
AZ911	RM B14	<4" PIPE RUN	C	7.500E03	3	2	2	2	2	5.00	45
AZ915	SNACK BAR	<4" PIPE RUN	C	5.700E03	3	2	2	2	3	40.00	5
AZ892	RM B16	4-8" PIPE FITTING	C	5.300E03	2	2	2	2	2	20.00	40
AZ914	VESTIBULE/STAIR	9-14" PIPE RUN	C	4.600E03	3	1	2	2	50	40.00	40
AZ937	BAR AREA-VESTIBULE	4-8" PIPE FITTING	C	4.600E03	3	1	2	2	50	40.00	40
AZ913	LIQUOR RM/MECH RM	4-8" PIPE FITTING	C	3.800E03	2	2	2	2	2	40.00	35
AZ913	RM B15	4-8" PIPE FITTING	C	3.800E03	2	2	2	2	2	40.00	35
AZ891	STEAM GENERATOR RM	<4" PIPE RUN	C	3.750E03	3	3	2	2	1	5.00	35
AZ892	STEAM GENERATOR RM	4-8" PIPE FITTING	C	3.750E03	3	2	2	2	1	5.00	40
AZ893	RM B12	4-8" PIPE RUN	C	3.750E03	3	3	2	2	1	5.00	15
AZ893	RM B12A	4-8" PIPE RUN	C	3.750E03	3	3	2	2	1	5.00	15
AZ893	STEAM GENERATOR RM	4-8" PIPE RUN	C	3.750E03	3	3	2	2	1	5.00	15
AZ894	STEAM GENERATOR RM	9-14" PIPE FITTING	C	3.750E03	3	2	2	2	1	5.00	40
AZ911	BAR AREA	<4" PIPE RUN	C	3.450E03	3	1	2	2	50	30.00	45
AZ903	CORRIDOR B	<4" PIPE FITTING	C	2.750E03	3	2	2	2	2	5.00	35
AZ897	SNACK BAR	9-14" PIPE FITTING	C	2.070E03	2	2	1	2	3	40.00	25
AZ903	RM B16	<4" PIPE FITTING	C	1.900E03	2	2	2	2	2	20.00	35
AZ915	RM B16	<4" PIPE RUN	C	1.900E03	3	2	2	2	2	20.00	5
AZ937	LIQUOR RM/MECH RM	4-8" PIPE FITTING	C	1.875E03	3	3	2	1	1	5.00	40
AZ903	VESTIBULE/STAIR	<4" PIPE FITTING	C	1.650E03	3	1	2	2	50	40.00	35
AZ938	BAR AREA-VESTIBULE	4-8" PIPE FITTING	C	1.650E03	3	1	2	2	50	40.00	10
AZ897	STEAM GENERATOR RM	9-14" PIPE FITTING	C	1.375E03	3	2	2	2	1	5.00	25
AZ894	LIQUOR RM/MECH RM	9-14" PIPE FITTING	C	1.325E03	2	3	1	2	1	10.00	40
AZ903	LIQUOR RM/MECH RM	<4" PIPE FITTING	C	1.325E03	2	3	2	2	1	10.00	35
AZ895	STEAM GENERATOR RM	9-14" PIPE RUN	B	6.625E02	3	2	2	1	1	5.00	55

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C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessibility
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

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TABLE 2000.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2000, OFFICER'S CLUB
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ911	RM B11	<4" PIPE RUN	B	6.625E02	2	2	2	2	1	5.00	45
AZ940	LIQUOR RM/MECH RM	4-8" PIPE RUN	B	6.625E02	3	3	1	1	1	5.00	40
AZ930	LIQUOR RM/MECH RM	4-8" PIPE RUN	B	6.600E02	2	2	2	2	2	40.00	4
AZ927	LOCKER RM 1	4-8" PIPE RUN	B	5.750E02	3	1	2	2	50	5.00	65
AZ937	LOCKER RM 1	4-8" PIPE FITTING	B	5.750E02	3	1	2	2	50	5.00	40
AZ940	LOCKER RM 1	4-8" PIPE RUN	B	5.750E02	3	1	2	2	50	5.00	40
AZ940	VESTIBULE/STAIR	4-8" PIPE RUN	B	5.750E02	3	1	2	2	50	5.00	40
AZ878	BOILER RM B1	BOILERS/TANKS	B	4.750E02	2	2	2	2	2	5.00	30
AZ889	RM B13	4-8" PIPE FITTING	B	4.750E02	2	2	1	2	2	5.00	40
AZ892	RM B12	4-8" PIPE FITTING	B	4.750E02	2	2	1	2	2	5.00	40
AZ895	RM B13	9-14" PIPE RUN	B	4.750E02	2	2	1	2	2	5.00	55
AZ904	CORRIDOR B	<4" PIPE RUN	B	4.750E02	3	2	2	2	2	5.00	3
AZ912	RM B14	4-8" PIPE RUN	B	4.750E02	2	2	1	2	2	5.00	50
AZ926	RM B13	DEBRIS	B	3.680E02	3	1	2	2	4	40.00	52
AZ915	VESTIBULE/STAIR	<4" PIPE RUN	B	2.900E02	3	1	2	2	50	40.00	5
AZ927	LOCKER RM 2	4-8" PIPE RUN	B	2.875E02	3	1	2	2	25	5.00	65
AZ937	LOCKER RM 2	4-8" PIPE FITTING	B	2.875E02	3	1	2	2	25	5.00	40
AZ891	LOCKER RM 1	<4" PIPE RUN	B	2.062E02	3	1	2	2	50	5.00	35
AZ939	LOCKER RM 1	4-8" PIPE RUN	B	2.062E02	3	1	2	2	50	5.00	30
AZ939	VESTIBULE/STAIR	4-8" PIPE RUN	B	2.062E02	3	1	2	2	50	5.00	30
AZ897	RM B12	9-14" PIPE FITTING	B	1.725E02	2	2	1	2	2	5.00	25
AZ897	RM B12A	9-14" PIPE FITTING	B	1.725E02	2	2	1	2	2	5.00	25
AZ897	RM B13	9-14" PIPE FITTING	B	1.725E02	2	2	1	2	2	5.00	25
AZ903	RM B11	<4" PIPE FITTING	B	1.725E02	2	2	1	2	2	5.00	35
AZ903	RM B8 & B7	<4" PIPE FITTING	B	1.725E02	2	2	1	2	2	5.00	35
AZ903	RM B9 & B10	<4" PIPE FITTING	B	1.725E02	2	2	1	2	2	5.00	35
AZ913	RM B14	4-8" PIPE FITTING	B	1.725E02	2	2	1	2	2	5.00	35
AZ937	FIRE DEPT RM	4-8" PIPE FITTING	B	1.325E02	3	2	2	1	1	1.00	40
AZ940	FIRE DEPT RM	4-8" PIPE RUN	B	1.325E02	3	2	2	1	1	1.00	40

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Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
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TABLE 2000.4
(continued)EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2000, OFFICER'S CLUB
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ912	BAR AREA	4-8" PIPE RUN	B	1.050E02	2	1	2	1	50	30.00	50
AZ891	LOCKER RM 2	<4" PIPE RUN	B	1.031E02	3	1	2	2	25	5.00	35
AZ939	LOCKER RM 2	4-8" PIPE RUN	B	1.031E02	3	1	2	2	25	5.00	30
AZ915	LIQUOR RM/MECH RM	<4" PIPE RUN	A	8.250E01	2	2	2	2	1	10.00	5
AZ936	LIQUOR RM/MECH RM	4-8" PIPE FITTING	A	8.250E01	2	2	2	2	1	10.00	1
AZ913	FIRE DEPT RM	4-8" PIPE FITTING	A	4.750E01	3	2	2	1	1	1.00	35
AZ927	FIRE DEPT RM	4-8" PIPE RUN	A	4.750E01	3	2	1	1	1	1.00	65
AZ931	FIRE DEPT RM	4-8" PIPE RUN	A	4.750E01	3	2	2	1	1	1.00	10
AZ930	LOCKER RM 1	4-8" PIPE RUN	A	3.625E01	3	1	2	2	50	5.00	4
AZ904	RM B11	<4" PIPE RUN	A	3.000E01	2	2	1	2	2	5.00	3
AZ904	RM B8 & B7	<4" PIPE RUN	A	3.000E01	2	2	1	2	2	5.00	3
AZ904	RM B9 & B10	<4" PIPE RUN	A	3.000E01	2	2	1	2	2	5.00	3
AZ930	LOCKER RM 2	4-8" PIPE RUN	A	1.812E01	3	1	2	2	25	5.00	4
AZ908	ATTIC AREA 3	EXPANSION JOINTS	A	1.450E01	3	1	1	1	20	5.00	50
AZ881	BOILER RM B1	DEBRIS	A	4.050E00	3	1	2	1	2	5.00	60
AZ882	BOILER RM B1	9-14" PIPE RUN	A	4.050E00	3	1	2	1	2	5.00	55
AZ891	FIRE DEPT RM	<4" PIPE RUN	A	3.000E00	2	2	1	1	1	1.00	35
AZ900	ELECTRIC SERVICE RM	AIR HANDLING EQUIPMENT	A	1.250E-1	2	1	2	1	1	5.00	30
AZ907	RM B11	AIR HANDLING EQUIPMENT	A	1.250E-1	2	1	1	1	1	5.00	60
AZ908	RM B11	EXPANSION JOINTS	A	1.250E-1	2	1	1	1	1	5.00	50
AZ876	BOILER RM B1	BOILERS/TANKS	A	0	2	2	1	2	1	5.00	0
AZ877	BOILER RM B1	BOILERS/TANKS	A	0	2	2	1	2	1	5.00	0
AZ879	BOILER RM B1	SPRAYED/TROWELED MATERIAL	A	0	1	2	1	2	2	8.00	0
AZ884	BOILER RM B1	<4" PIPE RUN	A	0	2	2	2	2	2	5.00	0
AZ885	BOILER RM B1	<4" PIPE RUN	A	0	2	2	2	2	2	5.00	0
AZ888	CORRIDOR A	PLASTER CEILINGS & WALLS	A	0	2	3	2	2	4	20.00	0
AZ888	CORRIDOR B	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	2	5.00	0
AZ888	LOCKER RM 3	PLASTER CEILINGS & WALLS	A	0	3	1	2	2	25	5.00	0
AZ888	RM B13	PLASTER CEILINGS & WALLS	A	0	2	3	2	2	6	5.00	0

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TABLE 2000.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ888	RM B14	PLASTER CEILINGS & WALLS	A	0	2	2	1	2	10	40.00	0
AZ888	RM B15	PLASTER CEILINGS & WALLS	A	0	2	2	1	2	10	40.00	0
AZ888	RM B16	PLASTER CEILINGS & WALLS	A	0	2	2	1	2	10	40.00	0
AZ888	RM B2 & B3	PLASTER CEILINGS & WALLS	A	0	3	3	2	1	1	40.00	0
AZ888	RM B4	PLASTER CEILINGS & WALLS	A	0	3	3	2	1	1	40.00	0
AZ888	RM B6 & B5	PLASTER CEILINGS & WALLS	A	0	2	3	2	2	6	5.00	0
AZ888	RM B8 & B7	PLASTER CEILINGS & WALLS	A	0	3	2	2	2	2	5.00	0
AZ888	RM B9 & B10	PLASTER CEILINGS & WALLS	A	0	2	3	2	2	6	5.00	0
AZ888	SNACK BAR	PLASTER CEILINGS & WALLS	A	0	2	2	1	1	3	40.00	0
AZ888	STEAM GENERATOR RM	PLASTER CEILINGS & WALLS	A	0	3	1	2	2	1	5.00	0
AZ888	VESTIBULE/STAIR	PLASTER CEILINGS & WALLS	A	0	1	3	1	2	50	40.00	0
AZ898	BAR AREA	4-8" PIPE FITTING	A	0	2	2	1	2	50	40.00	0
AZ898	CORRIDOR A	4-8" PIPE FITTING	A	0	3	2	2	1	1	5.00	0
AZ898	FIRE DEPT RM	4-8" PIPE FITTING	A	0	3	2	2	1	1	1.00	0
AZ898	LIQUOR RM/MECH RM	4-8" PIPE FITTING	A	0	2	2	1	2	2	40.00	0
AZ898	STEAM GENERATOR RM	4-8" PIPE FITTING	A	0	3	2	2	1	1	5.00	0
AZ899	ELECTRIC SERVICE RM	<4" PIPE RUN	A	0	1	1	1	1	1	5.00	0
AZ901	BAR AREA	<4" PIPE FITTING	A	0	2	2	1	2	50	40.00	0
AZ901	CORRIDOR B	<4" PIPE FITTING	A	0	3	3	2	2	2	5.00	0
AZ901	FIRE DEPT RM	<4" PIPE FITTING	A	0	3	2	2	1	1	1.00	0
AZ901	FIRE DEPT RM	<4" PIPE FITTING	A	0	3	2	2	1	1	1.00	0
AZ901	LOCKER RM 1	<4" PIPE FITTING	A	0	3	1	2	2	50	5.00	0
AZ901	LOCKER RM 2	<4" PIPE FITTING	A	0	3	1	2	2	25	5.00	0
AZ902	LIQUOR RM/MECH RM	<4" PIPE FITTING	A	0	2	2	1	2	2	40.00	0
AZ905	CORRIDOR B	4-8" PIPE FITTING	A	0	2	2	1	2	2	5.00	0
AZ905	RM B12	4-8" PIPE FITTING	A	0	2	2	1	2	2	5.00	0
AZ905	RM B12A	4-8" PIPE FITTING	A	0	2	2	1	2	2	5.00	0
AZ906	RM B11	4-8" PIPE FITTING	A	0	2	2	1	2	2	5.00	0
AZ909	CORRIDOR C	CEILING TILE	A	0	3	2	1	2	50	30.00	0

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TABLE 2000.4
(continued)EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2000, OFFICER'S CLUB
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ910	BAR AREA	CEILING TILE	A	0	3	1	2	2	50	30.00	0
AZ910	RM B14	CEILING TILE	A	0	3	2	2	2	2	5.00	0
AZ910	VESTIBULE/STAIR	CEILING TILE	A	0	3	3	1	2	50	40.00	0
AZ917	BAR AREA	PLASTER CEILINGS & WALLS	A	0	2	3	1	2	50	30.00	0
AZ917	CORRIDOR C	PLASTER CEILINGS & WALLS	A	0	1	3	1	2	50	30.00	0
AZ917	LIQUOR RM/MECH RM	PLASTER CEILINGS & WALLS	A	0	1	3	1	3	1	10.00	0
AZ917	RM B14	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	20	40.00	0
AZ918	BAR AREA	PLASTER CEILINGS & WALLS	A	0	2	2	2	2	50	30.00	0
AZ919	BAR AREA	PLASTER CEILINGS & WALLS	A	0	2	2	2	2	50	30.00	0
AZ923	BAR AREA	SPRAYED/TROWELED MATERIAL	A	0	2	3	2	2	4	20.00	0
AZ925	SNACK BAR	CEILING TILE	A	0	3	2	1	2	4	40.00	0
AZ935	BAR AREA	4-8" PIPE FITTING	A	0	2	1	2	3	50	40.00	0
AZ935	FIRE DEPT RM	4-8" PIPE FITTING	A	0	3	2	2	1	1	1.00	0
AZ935	LIQUOR RM/MECH RM	4-8" PIPE FITTING	A	0	2	3	2	2	1	10.00	0
AZ935	LOCKER RM 1	4-8" PIPE FITTING	A	0	3	1	2	2	50	5.00	0
AZ942	LOCKER RM 1	4-8" PIPE FITTING	A	0	3	2	2	2	50	20.00	0
AZ943	LOCKER RM 1	CEILING TILE	A	0	3	3	1	2	50	5.00	0
AZ943	LOCKER RM 2	CEILING TILE	A	0	3	3	1	2	25	5.00	0
AZ943	LOCKER RM 3	CEILING TILE	A	0	3	3	1	2	25	5.00	0
AZ947	ADMIN RM	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ947	ASST MANAGER	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ947	ATTIC AREA 3	PLASTER CEILINGS & WALLS	A	0	3	3	1	1	20	5.00	0
AZ947	ATTIC STAIRS	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	20	40.00	0
AZ947	BANQUET COORD I	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ947	BANQUET COORD II	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ947	BRANCH MANAGER	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ947	CORRIDOR 106A	PLASTER CEILINGS & WALLS	A	0	1	2	1	1	30	40.00	0
AZ947	CORRIDOR 205	PLASTER CEILINGS & WALLS	A	0	1	3	2	1	20	20.00	0
AZ947	DINING RM	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	50	40.00	0

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TABLE 2000.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ947	EMPLOYEE DINING	PLASTER CEILINGS & WALLS	A	0	2	2	1	2	10	40.00	0
AZ947	HALL 101	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	40	40.00	0
AZ947	KITCHEN	PLASTER CEILINGS & WALLS	A	0	1	2	1	1	30	40.00	0
AZ947	LADIES	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	20	20.00	0
AZ947	LIQUOR STORAGE	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	10	40.00	0
AZ947	LOUNGE	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	50	40.00	0
AZ947	MANAGER'S OFFICE	PLASTER CEILINGS & WALLS	A	0	1	2	1	1	8	40.00	0
AZ947	MONMOUTH STAIR	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	20	40.00	0
AZ947	OPERATIONS	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ947	REF STORAGE	PLASTER CEILINGS & WALLS	A	0	2	2	1	2	15	40.00	0
AZ947	STORAGE 104	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	10	20.00	0
AZ947	STORAGE 106	PLASTER CEILINGS & WALLS	A	0	1	2	1	1	4	30.00	0
AZ948	ADMIN RM	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ948	ASST MANAGER	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ948	ATTIC AREA 1	PLASTER CEILINGS & WALLS	A	0	3	2	2	2	10	5.00	0
AZ948	ATTIC AREA III	PLASTER CEILINGS & WALLS	A	0	3	2	1	1	20	5.00	0
AZ948	BANQUET COORD I	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ948	BANQUET COORD II	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ948	BRANCH MANAGER	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ948	CORRIDOR 106A	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	30	40.00	0
AZ948	CORRIDOR 205	PLASTER CEILINGS & WALLS	A	0	1	1	2	1	20	20.00	0
AZ948	DINING RM	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	50	40.00	0
AZ948	EMPLOYEE DINING	PLASTER CEILINGS & WALLS	A	0	2	2	1	2	10	40.00	0
AZ948	KITCHEN	PLASTER CEILINGS & WALLS	A	0	1	2	1	1	30	40.00	0
AZ948	LADIES	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	20	20.00	0
AZ948	LOUNGE	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	50	40.00	0
AZ948	MONMOUTH RM	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	30	40.00	0
AZ948	MONMOUTH STAIR	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	20	40.00	0
AZ948	OPERATIONS	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0

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TABLE 2000.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ948	REF STORAGE	PLASTER CEILINGS & WALLS	A	0	2	2	1	2	15	40.00	0
AZ949	ADMIN RM	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ949	ASST MANAGER	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ949	ATTIC AREA 1	PLASTER CEILINGS & WALLS	A	0	2	1	1	1	1	1.00	0
AZ949	BANQUET COORD I	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ949	BANQUET COORD II	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ949	BRANCH MANAGER	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ949	CORRIDOR 205	PLASTER CEILINGS & WALLS	A	0	1	1	2	1	20	20.00	0
AZ949	DINING RM	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	50	40.00	0
AZ949	DRY FOOD STORAGE	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	10	40.00	0
AZ949	HALL 101	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	40	40.00	0
AZ949	LADIES	PLASTER CEILINGS & WALLS	A	0	1	1	2	1	10	20.00	0
AZ949	LIQUOR STORAGE	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	10	40.00	0
AZ949	LOBBY II/COAT RM	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	40	30.00	0
AZ949	MONMOUTH RM	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	30	40.00	0
AZ949	MONMOUTH STORAGE	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	10	20.00	0
AZ949	OPERATIONS	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	8	40.00	0
AZ949	STORAGE 104	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	10	20.00	0
AZ950	EMPLOYEE DINING	4-8" PIPE FITTING	A	0	1	2	1	2	25	40.00	0
AZ953	KITCHEN	CEILING TILE	A	0	2	1	2	2	30	40.00	0
AZ953	MANAGER'S OFFICE	CEILING TILE	A	0	1	1	1	1	8	40.00	0
AZ954	BALLROOM CORRIDOR	CEILING TILE	A	0	1	3	1	1	100	40.00	0
AZ954	GARDEN BALLROOM I	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	100	40.00	0
AZ954	HANDICAPPED RM	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	25	20.00	0
AZ954	LOUNGE	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	25	20.00	0
AZ954	MENS RM	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	25	20.00	0
AZ954	SAPPHIRE BALLROOM 2	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	100	40.00	0
AZ954	WINDSOR BALLROOM III	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	100	40.00	0
AZ954	WOMENS RM	PLASTER CEILINGS & WALLS	A	0	1	3	1	1	25	20.00	0

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TABLE 2000.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ955	BALLROOM CORRIDOR	CEILING TILE	A	0	1	1	1	1	100	40.00	0
AZ955	GARDEN BALLROOM I	CEILING TILE	A	0	1	1	1	1	100	40.00	0
AZ955	HANDICAPPED RM	CEILING TILE	A	0	1	1	1	1	20	20.00	0
AZ955	LOBBY II/COAT RM	CEILING TILE	A	0	1	1	1	1	20	20.00	0
AZ955	MENS RM	CEILING TILE	A	0	1	1	1	1	20	20.00	0
AZ955	SAPPHIRE BALLROOM II	CEILING TILE	A	0	1	1	1	1	100	40.00	0
AZ955	WINDSOR BALLROOM III	CEILING TILE	A	0	1	1	1	1	100	40.00	0
AZ955	WOMENS RM	CEILING TILE	A	0	1	1	1	1	20	20.00	0
AZ956	SAPPHIRE BALLROOM 2	CEILING TILE	A	0	1	1	1	1	100	40.00	0
AZ958	KITCHEN	CEILING TILE	A	0	2	1	2	2	30	40.00	0
AZ960	DINING RM	CEILING TILE	A	0	1	1	1	1	50	40.00	0

Priority Index Codes

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TABLE 2000.5

COST ESTIMATE* - BUILDING 2000, OFFICER'S CLUB

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	-	-	-	0.2	0.1	-	-	-	-	2.9	-
4-8"	85.80	-	0.3	1.6	-	-	-	-	1.0	-	3.4	6.2
9-14"	147.00	-	-	-	-	-	-	-	-	-	3.4	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	2.6	-	-	0.3	-	-	0.3	-	2.7	4.0
4-8"	30.50	-	1.7	-	-	-	-	0.4	1.3	-	7.0	20.4
9-14"	42.50	-	0.2	-	0.5	-	-	-	-	-	3.4	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	8.1	-	-	-	-	-	-	1.0	-	-
Boilers/Tanks (SF)	37.90	-	-	-	0.6	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	0.6	-	-	-	-	-
Other		0.3	-	-	0.6	-	-	-	-	-	-	-
SUBTOTAL		0.3	12.9	1.6	1.8	0.4	0.6	0.4	2.6	1.0	22.8	30.6
Difficulty Allowance		-	2.0	0.8	2.7	-	0.3	-	-	-	10.6	15.3
SUBTOTAL		0.3	14.9	2.4	4.5	0.4	0.9	0.4	2.6	1.0	33.4	45.9
Decontamination Units		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		0.6	15.3	2.8	4.9	0.8	1.2	0.8	2.9	1.4	33.7	46.2
Contingency @ 15.00%		**	2.3	0.4	0.7	0.1	0.2	0.1	0.4	0.2	5.1	6.9
SUBTOTAL		0.7	17.6	3.2	5.6	0.9	1.4	0.9	3.4	1.6	38.8	53.2
Design Fee @ 6.00%		**	1.1	0.2	0.3	**	**	**	0.2	**	2.3	3.2
SUBTOTAL		0.8	18.6	3.4	6.0	0.9	1.5	0.9	3.6	1.7	41.1	56.4
Air Monitoring		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
TOTAL		1.6	19.5	4.2	6.8	1.8	2.4	1.8	4.4	2.5	41.9	57.2

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: ATTIC AREA 3
 AREA 3: BAR AREA-VESTIBULE
 AREA 5: CORRIDOR B
 AREA 7: EMPLOYEE DINING
 AREA 9: KITCHEN
 AREA 11: LOCKER RM 1

AREA 2: BAR AREA
 AREA 4: BOILER RM B1
 AREA 6: ELECTRIC SERVICE RM
 AREA 8: FIRE DEPT RM
 AREA 10: LIQUOR RM/MECH RM

TABLE 2000.5
(continued)
COST ESTIMATE* - BUILDING 2000, OFFICER'S CLUB
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

DESCRIPTION	UNIT COST (\$)	AREA 12	AREA 13	AREA 14	AREA 15	AREA 16	AREA 17	AREA 18	AREA 19	AREA 20	AREA 21	AREA 22
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	0.2	-	-	-	-	-	0.4
4-8"	85.80	3.9	-	-	-	-	0.3	0.3	1.0	1.0	**	0.2
9-14"	147.00	-	-	-	-	-	0.9	0.9	0.9	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	2.9	-	-	-	2.1	0.4	0.4	-	0.4	-	0.4
4-8"	30.50	8.5	-	-	0.6	-	0.4	0.4	-	1.5	0.4	0.2
9-14"	42.50	-	-	-	-	1.3	1.5	1.5	1.2	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	4.4	-	-	-	-	-	-	-	-
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	1.4	-	-	-	-	-	-
Other		-	0.3	0.3	-	0.3	-	-	0.3	-	-	-
SUBTOTAL		15.3	0.3	4.7	0.6	5.3	3.5	3.5	3.4	2.9	0.5	1.3
Difficulty Allowance		7.7	0.2	0.2	0.3	0.6	1.4	1.4	2.1	1.5	0.3	0.6
SUBTOTAL		23.0	0.5	4.8	0.9	5.9	4.9	4.9	5.5	4.4	0.8	1.9
Decontamination Units		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		23.3	0.8	5.2	1.3	6.3	5.2	5.2	5.8	4.7	1.1	2.2
Contingency @ 15.00%		3.5	0.1	0.8	0.2	0.9	0.8	0.8	0.9	0.7	0.2	0.3
SUBTOTAL		26.8	0.9	5.9	1.5	7.2	6.0	6.0	6.7	5.4	1.3	2.6
Design Fee @ 6.00%		1.6	**	0.4	**	0.4	0.4	0.4	0.4	0.3	**	0.2
SUBTOTAL		28.4	1.0	6.3	1.5	7.7	6.3	6.3	7.1	5.8	1.4	2.7
Air Monitoring		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
TOTAL		29.3	1.8	7.1	2.4	8.5	7.2	7.2	8.0	6.6	2.2	3.6

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 12: LOCKER RM 2
AREA 14: MONMOUTH STORAGE
AREA 16: RM B11
AREA 18: RM B12A
AREA 20: RM B14
AREA 22: RM B16

AREA 13: MONMOUTH MECH RM
AREA 15: REF STORAGE
AREA 17: RM B12
AREA 19: RM B13
AREA 21: RM B15

TABLE 2000.5
(continued)

COST ESTIMATE* - BUILDING 2000, OFFICER'S CLUB
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

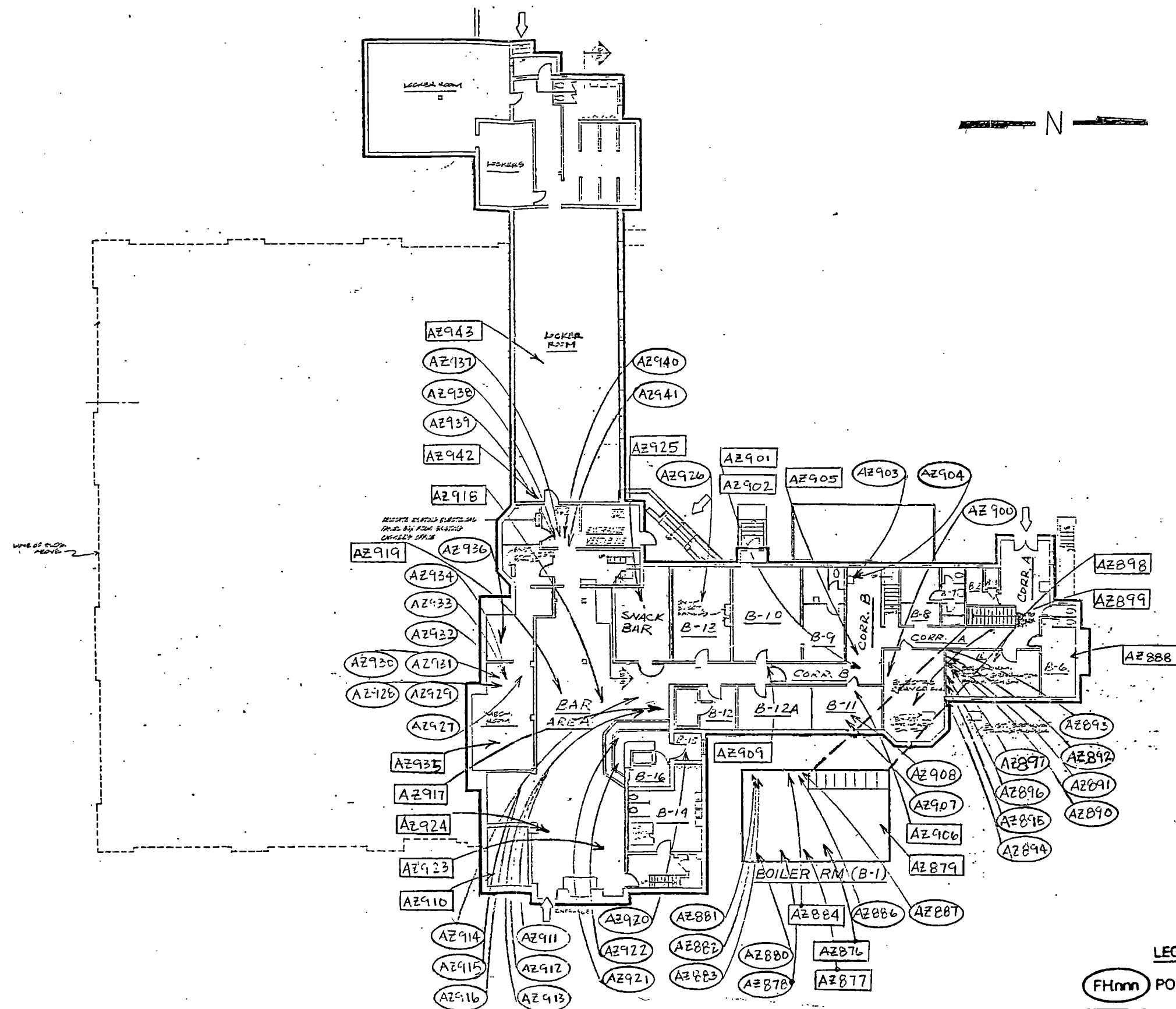
DESCRIPTION	UNIT COST (\$)	AREA 23	AREA 24	AREA 25	AREA 26	AREA 27	AREA 28	TOTAL
Pipe Fittings (EA)								
<4"	70.30	-	0.3	0.3	0.4	-	0.5	5.3
4-8"	85.80	0.2	-	-	0.2	**	-	19.9
9-14"	147.00	-	-	0.9	0.3	0.3	-	7.5
>14"	216.00	-	-	-	-	-	-	-
Pipe Runs (LF)								
<4"	26.50	-	0.3	1.0	1.1	**	1.6	20.3
4-8"	30.50	-	-	-	1.5	0.4	1.3	46.0
9-14"	42.50	-	-	0.2	1.0	0.4	1.7	12.8
>14"	60.80	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	-	-	-	-	13.4
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	0.6
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	2.0
Other		-	-	-	-	-	-	2.1
SUBTOTAL		0.2	0.6	2.3	4.4	1.2	5.1	130.0
Difficulty Allowance		-	-	-	2.2	-	2.5	52.6
SUBTOTAL		0.2	0.6	2.3	6.6	1.2	7.6	182.6
Decontamination Units		0.2	0.2	0.2	0.2	0.2	0.2	5.5
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	4.2
SUBTOTAL		0.5	0.9	2.6	7.0	1.5	7.9	192.3
Contingency @ 15.00%		**	0.1	0.4	1.0	0.2	1.2	28.8
SUBTOTAL		0.6	1.1	3.0	8.0	1.8	9.1	221.2
Design Fee @ 6.00%		**	**	0.2	0.5	0.1	0.5	13.3
SUBTOTAL		0.6	1.2	3.2	8.5	1.9	9.7	234.4
Air Monitoring		0.8	0.8	0.8	0.8	0.8	0.8	23.4
TOTAL		1.5	2.0	4.0	9.4	2.7	10.5	257.9

*Amounts Are In Thousands Of Dollars

** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 23: RM B2 & B3
AREA 25: RM B9 & B10
AREA 27: STEAM GENERATOR RM

AREA 24: RM B8 & B7
AREA 26: SNACK BAR
AREA 28: VESTIBULE/STAIR



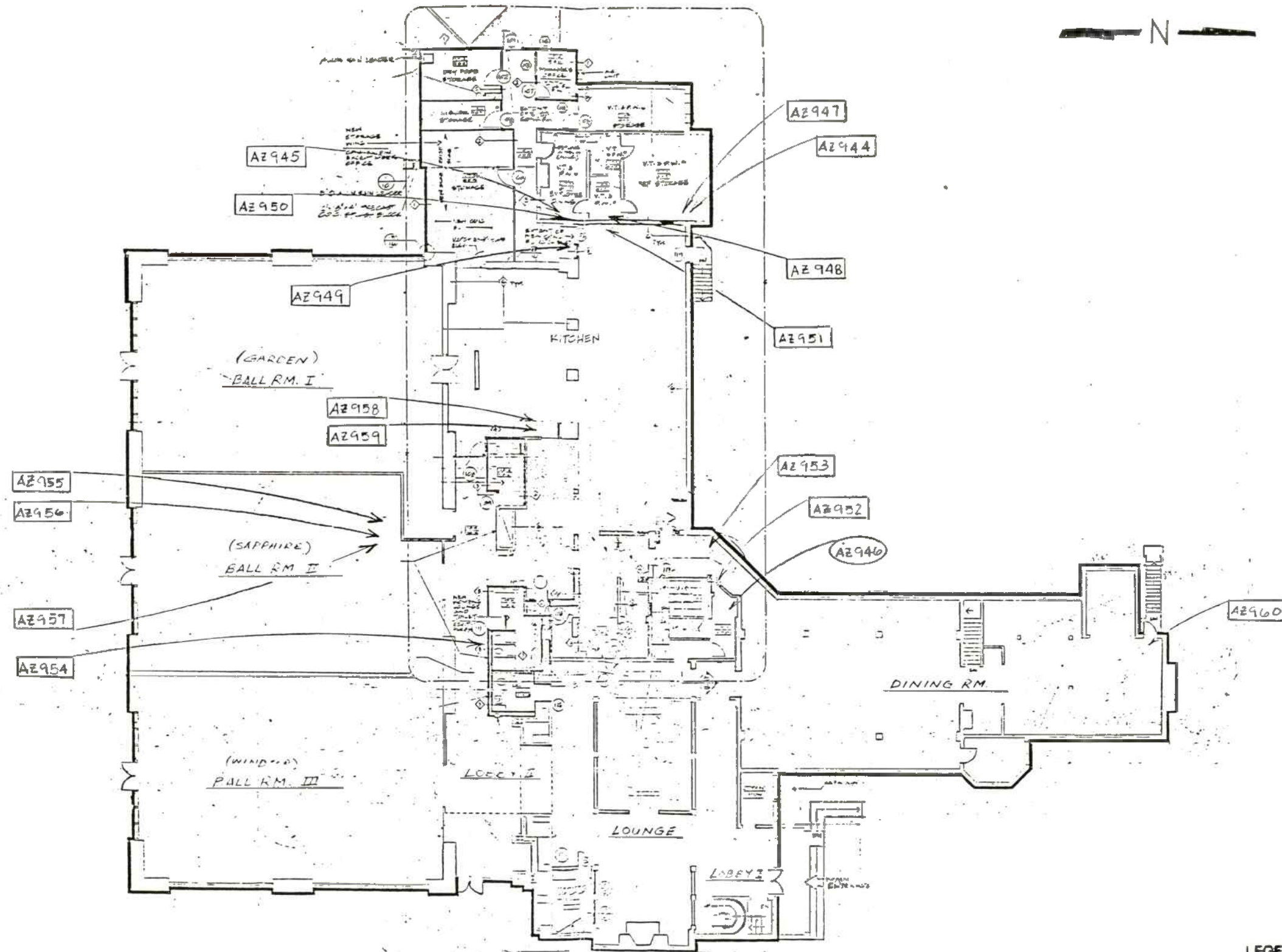
BLDG. 2000 BASEMENT FLOOR PLAN

LEGEND

FHmn POSITIVE SAMPLE

FHmn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS CONSULTANTS



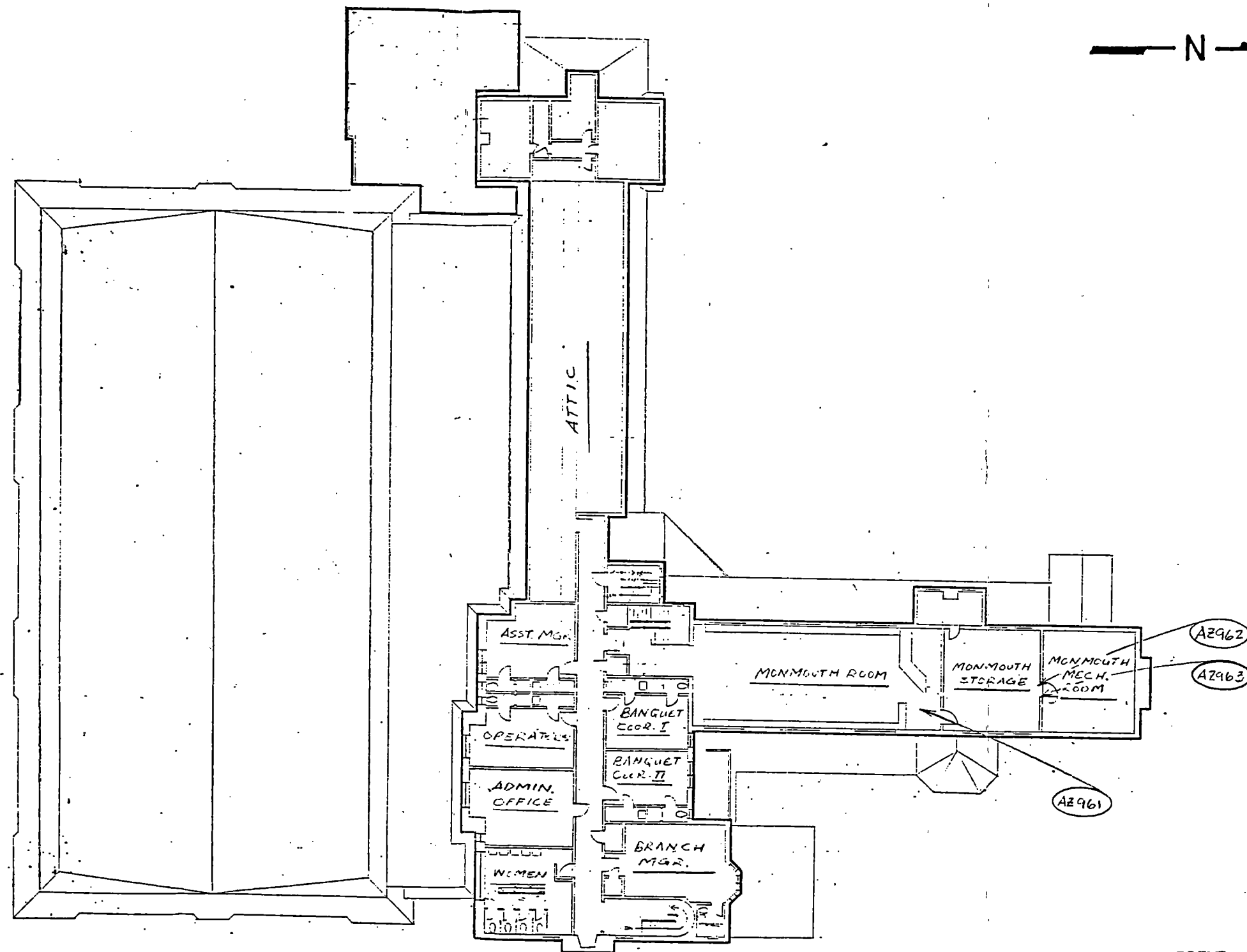
BLDG. 2000 FIRST FLOOR PLAN

LEGEND

FHnn POSITIVE SAMPLE

FHnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



BLDG. 2000 SECOND FLOOR PLAN

LEGEND

- FHnnn POSITIVE SAMPLE
- FHnnn NEGATIVE SAMPLE

9001

SIGNAL ADMINISTRATION

9001

SIGNAL ADMINISTRATION

9001.1 GENERAL

Building 9001 was surveyed by WESTON technicians on 28 November 1989 through 19 December 1989.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 45 samples of suspect material collected from the building. Of these samples, 20 were found to be asbestos-containing materials (ACM). Table 9001.1 lists the analytical results for the bulk samples.

9001.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9001 are presented in Table 9001.1. An area-by-area inventory of ACM is provided in Table 9001.2 and 9001.3. "Other Asbestos-Containing Materials," listed in Table 9001.3, are materials which do not match the standard caption categories listed in Table 9001.2. A prioritized listing of exposure assessments is presented in Table 9001.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9001.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9001.2 and 9001.5.

9001.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Rooms 101, 102, 103, 105, 109, 110, 111, 112, 113, 114, 117, 122, 124 and 131 qualify for an Army Asbestos Deficiency Abatement Project (AADAP).
- o ACM piping in the above listed rooms be labeled as the first step in an O&M Program until the AADAP is completed.



Northeastern Analytical Corp.

9001

BULK SAMPLE ANALYSIS REPORT

CLIENT: E-Systems, Inc.

NAC #: 89A-2330

FACILITY:

Bldg. 9001 Rm 163

SAMPLE DESCRIPTION AND LOCATION:	pipe insulation C89-207		
SAMPLE NUMBER:	89A-2330-1		
ASBESTOS:			
Chrysotile	35-40%		
Amosite	ND		
Crocidolite	ND		
Other	ND		
NON-ASBESTOS:			
Cellulose	40-45%		
Fibrous Glass			
Quartz			
Binders	BALANCE		
Calcite			
Perlite			
Vermiculite			
Synthetic Fibers			
Gypsum			
Mica			
Talc			
Other			

ANALYST: Susan Homardella DATE: 11/30/89

ND: NONE DETECTED. Detection Limit: 1% EPA defines Asbestos-Containing Materials (ACM) as those containing greater than 1% asbestos.

Methodology: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA 600/M4-82-020.

1 CI



Northeastern Analytical Corp.

7001

BULK SAMPLE ANALYSIS REPORT

TEST REPORT NO. NAC11126

CLIENT: E Systems

JOB SITE: Bldg. 9001 Room 204

SAMPLE LOCATION	HC88-22			
SAMPLE NUMBER	NAC11126-1			
ASBESTOS				
1. CHRYSOTILE				
2. AMOSITE				
3. CROCIDOLITE				
4. OTHER				
NON-ASBESTOS				
1. Cellulose	75-80%			
2. Fibrous Glass				
3. Perlite				
4. Vermiculite				
5. Quartz				
6. Binders	BALANCE			
7. Mica				
8. Synthetic Fibers				
9. Gypsum				
10. Talc				
11. Calcite				
12. Other				

Analyst: _____

Date Analyzed: 11/21/88

Methodology: EPA Interim method for Asbestos Identification for Bulk Sample Testing

ND: None Detected

The United States Environmental Protection Agency (USEPA) defines asbestos containing material as any material containing 1% or more asbestos.

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TABLE 9001.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9001, SIGNAL ADMINIST
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP600	214, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AP601	127, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AP602	120, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AP603	110, 112, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AP604	101, 102, 103, AND 105, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AP605	101, 102, 103, AND 105, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AP606	214, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AP607	214, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AP608	261, 263, 264, , NA	CEILING BOARD	WHITE, OTH, CEIL BOARD, HORIZONTAL	-	-	-	NO
AP609	259, NA	CEILING BOARD	WHITE, OTH, CEIL BOARD, HORIZONTAL	-	-	-	NO
AP610	259, NA	DUPLICATE SAMPLE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP611	201, 255, NA	CEILING BOARD	WHITE, OTH, CEIL BOARD, HORIZONTAL	-	-	-	NO
AP612	209, NA	CEILING BOARD	WHITE, OTH, CEIL BOARD, HORIZONTAL	-	-	-	NO
AP613	114, NA	4-8" PIPE RUN	BROWN, UNK, PIPE RUN	15	-	-	YES
AZ815	BASEMENT, NA	<4" PIPE RUN	GREEN, STM, PIPE RUN	15	-	-	YES
AZ816	BASEMENT, NA	<4" PIPE RUN	GREEN, STM, PIPE RUN	15	-	-	YES
AZ820	BASEMENT, NA	<4" PIPE RUN	GREEN, UNK, PIPE RUN	7	-	-	YES
AZ821	BASEMENT, NA	<4" PIPE FITTING	WHITE, STM, FITTING	40	-	-	NO
AZ822	BASEMENT, NA	<4" PIPE FITTING	WHITE, STM, FITTING	45	-	-	NO
AZ823	BASEMENT, NA	<4" PIPE FITTING	WHITE, STM, FITTING	45	-	-	YES
AZ824	BASEMENT, NA	4-8" PIPE RUN	GREEN, STM, PIPE RUN	40	-	-	YES
AZ825	BASEMENT, NA	DUPLICATE SAMPLE	GREEN, STM, PIPE RUN	55	-	-	NO
AZ826	BASEMENT, NA	4-8" PIPE FITTING	WHITE, STM, FITTING	30	-	-	NO
AZ827	BASEMENT, NA	4-8" PIPE RUN	GREEN, STM, PIPE RUN	40	-	-	NO

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C - Center
N - North
E - East
S - South
W - West
NE - Northeast
NW - Northwest
SE - Southeast
SW - Southwest

System Codes

STM - Steam
CHW - Chilled Water
HHW - Heating Hot Water
DOM - Domestic Water
OTH - Other
UNK - Unknown

Asbestos Types

CH - Chrysotile
AM - Amosite
OT - Other

TABLE 9001.1
(continued)BULK SAMPLE ANALYSIS RESULTS - BUILDING 9001, SIGNAL ADMINIST
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AZ828	BASEMENT, NA	4-8" PIPE FITTING	WHITE, STM, FITTING	25	15	-	NO
AZ829	BASEMENT, NA	4-8" PIPE FITTING	WHITE, STM, FITTING	25	10	-	NO
AZ832	120, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AZ833	120, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AZ834	118, NA, BELOW CEILING	FLOOR TILE	WHITE, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AZ835	121, NA, BELOW CEILING	FLOOR TILE	WHITE, OTH, FLOOR TILE, HORIZONTAL	3	-	-	NO
AZ836	118, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AZ837	204, 204-A, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AZ838	204, 204-A, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AZ839	CORRIDOR 2, NA, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	3	-	-	NO
AZ840	CORRIDOR 2, NA, BELOW CEILING	DUPLICATE SAMPLE	BROWN, OTH, FLOOR TILE, HORIZONTAL	5	-	-	NO
AZ841	261, 263, 264, , NA, BELOW CEILING	FLOOR TILE	WHITE, OTH, FLOOR TILE, HORIZONTAL	4	-	-	NO
AZ842	CORRIDOR 1, NA, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	7	-	-	NO
AZ843	STAIRS 1, NA, BELOW CEILING	FLOOR TILE	BLACK, OTH, FLOOR TILE, HORIZONTAL	10	-	-	NO
AZ844	214, NA, BELOW CEILING	FLOOR TILE	GREEN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	YES
AZ845	214, NA, BELOW CEILING	FLOOR TILE	GREEN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	YES
AZ846	111, NA, BELOW CEILING	FLOOR TILE	GREEN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	YES
AZ847	117, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AZ848	115, NA, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, WALL TILE, VERTICAL	-	-	-	NO
AZ849	117, NA, BELOW CEILING	FLOOR TILE	GREEN, OTH, FLOORING, HORIZONTAL	-	-	-	YES
AZ850	117, NA, BELOW CEILING	DUPLICATE SAMPLE	GREEN, OTH, FLOORING, HORIZONTAL	-	-	-	YES

^a Asbestos content presented for layered samples represents the highest concentration layer.Quadrant Codes

C - Center
 N - North
 E - East
 S - South
 W - West
 NE - Northeast
 NW - Northwest
 SE - Southeast
 SW - Southwest

System Codes

STM - Steam
 CHW - Chilled Water
 HHW - Heating Hot Water
 DOM - Domestic Water
 OTH - Other
 UNK - Unknown

Asbestos Types

CH - Chrysotile
 AM - Amosite
 OT - Other

TABLE 9001.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9001, SIGNAL ADMINIST

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
101,102,103,AND 105	-	-	-	-	-	40	-	-	-	0.47	-	-	-
106,108	-	-	-	-	-	-	-	-	-	0.10	-	-	-
107	-	-	-	-	-	-	-	-	-	0.04	-	-	-
109	-	-	-	-	-	20	-	-	-	-	-	-	-
110,112	-	-	-	-	-	20	-	-	-	0.28	-	-	-
111	-	-	-	-	-	10	-	-	-	-	-	-	-
113	-	-	-	-	-	20	-	-	-	-	-	-	-
114	-	4	-	-	-	15	-	-	-	-	-	-	-
116	-	-	-	-	-	-	-	-	-	0.14	-	-	-
117	-	1	-	-	-	10	-	-	-	-	-	-	-
118	-	-	-	-	-	-	-	-	-	0.23	-	-	-
119	-	-	-	-	-	-	-	-	-	0.11	-	-	-
120	-	-	-	-	-	-	-	-	-	0.43	-	-	-
121	-	-	-	-	36	-	-	-	-	0.24	-	-	-
122	-	-	-	-	-	30	-	-	-	0.50	-	-	-
124,131	-	-	-	-	-	60	-	-	-	0.35	-	-	-
125	-	-	-	-	-	-	-	-	-	0.21	-	-	-
127	-	-	-	-	-	-	-	-	-	0.10	-	-	-
129	-	-	-	-	-	-	-	-	-	0.23	-	-	-
133	-	-	-	-	-	-	-	-	-	0.27	-	-	-
201,255	-	-	-	-	-	-	-	-	-	0.41	-	-	-
203,205,207	-	-	-	-	-	-	-	-	-	0.40	-	-	-
204,204-A	-	-	-	-	-	-	-	-	-	0.25	-	-	-
209	-	-	-	-	-	-	-	-	-	0.13	-	-	-
214	-	-	-	-	-	-	-	-	-	0.37	-	-	-
251,252,253,257,258	-	-	-	-	-	-	-	-	-	1.75	-	-	-
261,263,264,	-	-	-	-	-	-	-	-	-	0.77	-	-	-
262,LADIES ROOM	-	-	-	-	-	-	-	-	-	0.21	-	-	-
ATTIC	-	-	-	-	-	-	-	-	-	0.56	-	-	-
BASEMENT	157	70	-	-	737	474	-	-	-	-	-	-	-
CORRIDOR 1	-	-	-	-	-	-	-	-	-	1.04	-	-	-
CORRIDOR 2	-	-	-	-	-	-	-	-	-	1.01	-	-	-

* Other material present in various units of measure. See Table 9001.3 for material descriptions.

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

TABLE 9001.2
(continued)

ASBESTOS-CONTAINING MATERIALS - BUILDING 9001, SIGNAL ADMINIST

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
STAIRS 1	-	-	-	-	-	-	-	-	-	0.04	-	-	-
STAIRS 2	-	-	-	-	-	-	-	-	-	0.02	-	-	-
TOTALS	157	75	-	-	773	699	-	-	-	10.67	-	-	-

* Other material present in various units of measure. See Table 9001.3 for material descriptions.

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

TABLE 9001.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 9001, SIGNAL ADMINIST

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
NO OTHER ASBESTOS-CONTAINING MATERIAL FOUND IN THIS BUILDING		

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

9-1006

TABLE 9001.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9001, SIGNAL ADMINIST
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AZ824	101,102,103,AND 105	4-8" PIPE RUN	C	1.840E03	2	3	1	1	2	40.00	40
AZ824	109	4-8" PIPE RUN	C	1.840E03	2	3	1	1	2	40.00	40
AZ824	110,112	4-8" PIPE RUN	C	1.840E03	2	3	1	1	2	40.00	40
AZ824	111	4-8" PIPE RUN	C	1.840E03	2	3	1	1	2	40.00	40
AZ824	113	4-8" PIPE RUN	C	1.840E03	2	3	1	1	2	40.00	40
AZ824	117	4-8" PIPE RUN	C	1.840E03	2	3	1	1	2	40.00	40
AZ824	122	4-8" PIPE RUN	C	1.840E03	2	3	1	1	2	40.00	40
AZ824	124,131	4-8" PIPE RUN	C	1.840E03	2	3	1	1	2	40.00	40
AZ826	114	4-8" PIPE FITTING	C	1.380E03	3	2	1	1	2	40.00	30
AZ826	117	4-8" PIPE FITTING	C	1.380E03	3	2	1	1	2	40.00	30
AZ815	121	<4" PIPE RUN	B	6.600E02	2	3	1	1	2	40.00	15
AZ821	BASEMENT	<4" PIPE FITTING	B	1.325E02	3	3	1	1	1	1.00	40
AZ822	BASEMENT	<4" PIPE FITTING	B	1.325E02	3	3	1	1	1	1.00	45
AZ823	BASEMENT	<4" PIPE FITTING	B	1.325E02	3	3	1	1	1	1.00	45
AZ824	BASEMENT	4-8" PIPE RUN	B	1.325E02	3	3	1	1	1	1.00	40
AZ827	BASEMENT	4-8" PIPE RUN	B	1.325E02	3	3	1	1	1	1.00	40
AZ828	BASEMENT	4-8" PIPE FITTING	B	1.325E02	3	3	1	1	1	1.00	40
AZ815	BASEMENT	<4" PIPE RUN	A	4.750E01	3	3	1	1	1	1.00	15
AZ816	BASEMENT	<4" PIPE RUN	A	4.750E01	3	3	1	1	1	1.00	15
AZ826	BASEMENT	4-8" PIPE FITTING	A	4.750E01	3	3	1	1	1	1.00	30
AZ829	BASEMENT	4-8" PIPE FITTING	A	4.750E01	3	3	1	1	1	1.00	35
AZ820	BASEMENT	<4" PIPE RUN	A	8.250E00	3	3	1	1	1	1.00	7
AP613	114	4-8" PIPE RUN	A	1.050E00	3	1	1	1	2	10.00	15
AP600	214	ACOUSTICAL WALL TILE	A	0	2	3	1	1	1	40.00	0
AP601	107	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AP601	109	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AP601	113	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AP601	127	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AP601	CORRIDOR 1	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0

Priority Index Codes

A [-] Long Term Corrective Measure
B [-] Review Management Special Considerations/Remarks
C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [-] Material Friability
2 [-] Occupant Accessibility
3 [-] Material Condition
4 [-] Level Of Activity
5 [-] Number Of Assigned Occupants

TABLE 9001.4
(continued)EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9001, SIGNAL ADMINIST
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	%
					1	2	3	4	5		
AP602	120	ACOUSTICAL WALL TILE	A	0	2	3	1	1	12	4.00	0
AP603	110,112	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AP604	101,102,103,AND 105	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AP605	101,102,103,AND 105	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AP606	214	ACOUSTICAL WALL TILE	A	0	2	3	1	1	1	40.00	0
AP607	214	ACOUSTICAL WALL TILE	A	0	2	3	1	1	1	40.00	0
AP608	214	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP608	261,263,264,	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP609	259	CEILING BOARD	A	0	2	2	1	1	10	5.00	0
AP611	201,255	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP612	209	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AZ832	115	ACOUSTICAL WALL TILE	A	0	2	2	1	1	12	5.00	0
AZ832	117	ACOUSTICAL WALL TILE	A	0	2	2	1	1	12	5.00	0
AZ832	120	ACOUSTICAL WALL TILE	A	0	2	2	1	1	12	5.00	0
AZ832	121	ACOUSTICAL WALL TILE	A	0	2	2	1	1	12	5.00	0
AZ832	125	ACOUSTICAL WALL TILE	A	0	2	2	1	1	12	5.00	0
AZ832	209	ACOUSTICAL WALL TILE	A	0	2	2	1	1	12	5.00	0
AZ832	214	ACOUSTICAL WALL TILE	A	0	2	2	1	1	12	5.00	0
AZ832	259	ACOUSTICAL WALL TILE	A	0	2	2	1	1	12	5.00	0
AZ833	120	ACOUSTICAL WALL TILE	A	0	2	3	1	1	12	5.00	0
AZ836	118	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AZ837	204,204-A	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AZ838	204,204-A	ACOUSTICAL WALL TILE	A	0	2	2	1	1	2	40.00	0
AZ847	117	ACOUSTICAL WALL TILE	A	0	2	3	1	1	1	40.00	0
AZ847	214	ACOUSTICAL WALL TILE	A	0	2	3	1	1	1	40.00	0
AZ848	115	ACOUSTICAL WALL TILE	A	0	2	3	1	1	2	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9001.5

COST ESTIMATE* - BUILDING 9001, SIGNAL ADMINIST
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	0.3	-	**	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	1.2	-	-	0.6	0.6	0.3	0.6	0.5	-	0.3	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	2.6	0.5	0.2	-	1.6	-	-	-	0.8	-	1.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		3.8	0.5	0.2	0.6	2.2	0.3	0.6	0.8	0.8	0.4	1.3
Difficulty Allowance		1.3	-	-	-	0.8	-	-	-	-	-	-
SUBTOTAL		5.2	0.5	0.2	0.6	3.0	0.3	0.6	0.8	0.8	0.4	1.3
Decontamination Units		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Mobilization		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SUBTOTAL		5.5	0.9	0.6	1.0	3.4	0.7	1.0	1.2	1.2	0.8	1.7
Contingency @ 15.00%		0.8	0.1	**	0.2	0.5	0.1	0.2	0.2	0.2	0.1	0.3
SUBTOTAL		6.4	1.1	0.7	1.2	3.9	0.8	1.2	1.4	1.4	0.9	2.0
Design Fee @ 6.00%		0.4	**	**	**	0.2	**	**	**	**	**	0.1
SUBTOTAL		6.8	1.1	0.8	1.2	4.1	0.9	1.2	1.5	1.5	1.0	2.1
Air Monitoring		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
TOTAL		7.3	1.7	1.3	1.8	4.7	1.4	1.8	2.0	2.0	1.5	2.6

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: 101,102,103,AND 105
AREA 3: 107
AREA 5: 110,112
AREA 7: 113
AREA 9: 116
AREA 11: 118

AREA 2: 106,108
AREA 4: 109
AREA 6: 111
AREA 8: 114
AREA 10: 117

TABLE 9001.5

(continued)

COST ESTIMATE* - BUILDING 9001, SIGNAL ADMINIST

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 12	AREA 13	AREA 14	AREA 15	AREA 16	AREA 17	AREA 18	AREA 19	AREA 20	AREA 21	AREA 22
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	1.0	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	0.9	1.8	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	0.6	2.4	1.4	2.8	2.0	1.2	0.6	1.3	1.5	2.3	2.2
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		0.6	2.4	2.3	3.7	3.8	1.2	0.6	1.3	1.5	2.3	2.2
Difficulty Allowance		-	-	-	1.4	1.0	0.6	0.3	0.7	0.8	1.1	1.1
SUBTOTAL		0.6	2.4	2.3	5.1	4.8	1.8	0.9	2.0	2.3	3.4	3.3
Decontamination Units		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Mobilization		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SUBTOTAL		1.0	2.8	2.7	5.5	5.2	2.2	1.3	2.4	2.7	3.8	3.7
Contingency @ 15.00%		0.1	0.4	0.4	0.8	0.8	0.3	0.2	0.4	0.4	0.6	0.6
SUBTOTAL		1.1	3.2	3.1	6.3	5.9	2.5	1.5	2.7	3.1	4.4	4.3
Design Fee @ 6.00%		**	0.2	0.2	0.4	0.4	0.1	**	0.2	0.2	0.3	0.3
SUBTOTAL		1.2	3.4	3.3	6.7	6.3	2.6	1.5	2.9	3.2	4.7	4.6
Air Monitoring		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
TOTAL		1.8	4.0	3.9	7.3	6.9	3.2	2.1	3.4	3.8	5.2	5.1

* Amounts Are In Thousands Of Dollars

** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 12: 119
 AREA 14: 121
 AREA 16: 124, 131
 AREA 18: 127
 AREA 20: 133
 AREA 22: 203, 205, 207

AREA 13: 120
 AREA 15: 122
 AREA 17: 125
 AREA 19: 129
 AREA 21: 201, 255

9001-10

TABLE 9001.5
(continued)COST ESTIMATE* - BUILDING 9001, SIGNAL ADMINIST
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 23	AREA 24	AREA 25	AREA 26	AREA 27	AREA 28	AREA 29	AREA 30	AREA 31	AREA 32	AREA 33
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	11.0	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	6.0	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	19.5	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	14.5	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	1.4	0.7	2.1	9.8	4.3	1.2	3.1	-	5.8	5.7	0.2
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		1.4	0.7	2.1	9.8	4.3	1.2	3.1	51.0	5.8	5.7	0.2
Difficulty Allowance		0.7	0.4	1.0	4.9	2.2	0.6	-	-	-	2.8	**
SUBTOTAL		2.1	1.1	3.1	14.7	6.5	1.8	3.1	51.0	5.8	8.5	0.3
Decontamination Units		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Mobilization		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SUBTOTAL		2.5	1.5	3.5	15.1	6.9	2.2	3.5	51.4	6.2	8.9	0.7
Contingency @ 15.00%		0.4	0.2	0.5	2.3	1.0	0.3	0.5	7.7	0.9	1.3	**
SUBTOTAL		2.9	1.7	4.0	17.4	7.9	2.5	4.1	59.1	7.2	10.2	0.8
Design Fee @ 6.00%		0.2	0.1	0.2	1.0	0.5	0.2	0.2	3.5	0.4	0.6	**
SUBTOTAL		3.1	1.8	4.3	18.4	8.4	2.7	4.3	62.7	7.6	10.8	0.8
Air Monitoring		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
TOTAL		3.6	2.3	4.8	19.0	9.0	3.2	4.9	63.2	8.1	11.4	1.4

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 23: 204,204-A
 AREA 25: 214
 AREA 27: 261,263,264,
 AREA 29: ATTIC
 AREA 31: CORRIDOR 1
 AREA 33: STAIRS 1

AREA 24: 209
 AREA 26: 251,252,253,257,258
 AREA 28: 262,LADIES ROOM
 AREA 30: BASEMENT
 AREA 32: CORRIDOR 2

TABLE 9001.5

(continued)

COST ESTIMATE* - BUILDING 9001, SIGNAL ADMINIST

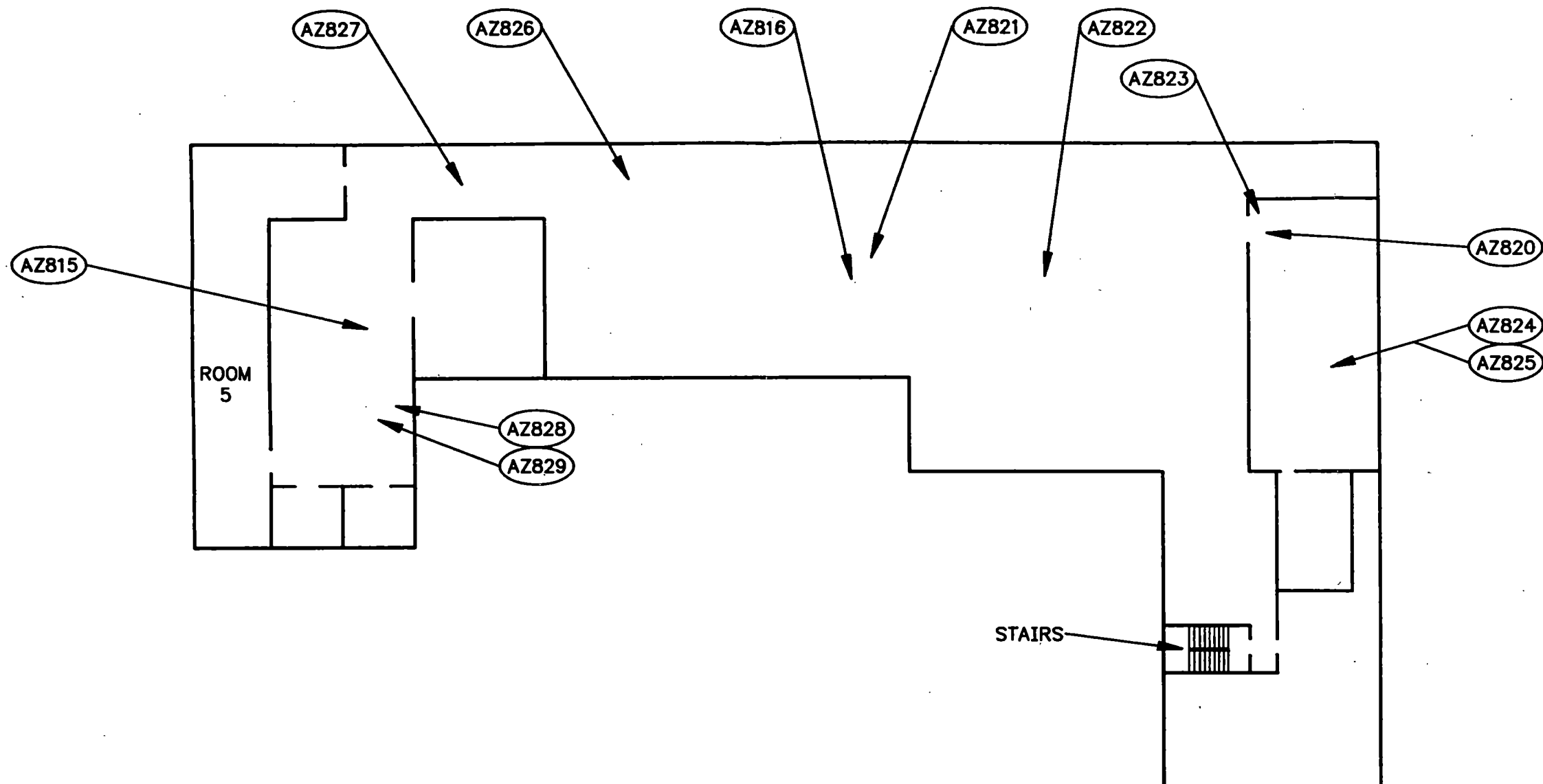
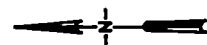
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 34	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	11.0
4-8"	85.80	-	6.4
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	20.5
4-8"	30.50	-	21.3
9-14"	42.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	0.1	59.8
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		0.1	119.0
Difficulty Allowance		-	21.7
SUBTOTAL		0.1	140.7
Decontamination Units		0.3	9.3
Mobilization		0.1	4.2
SUBTOTAL		0.5	154.2
Contingency @ 15.00%		**	23.1
SUBTOTAL		0.6	177.3
Design Fee @ 6.00%		**	10.6
SUBTOTAL		0.6	188.0
Air Monitoring		0.6	18.8
TOTAL		1.2	206.8

*Amounts Are In Thousands Of Dollars

** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 34: STAIRS 2



BUILDING 9001, BASEMENT

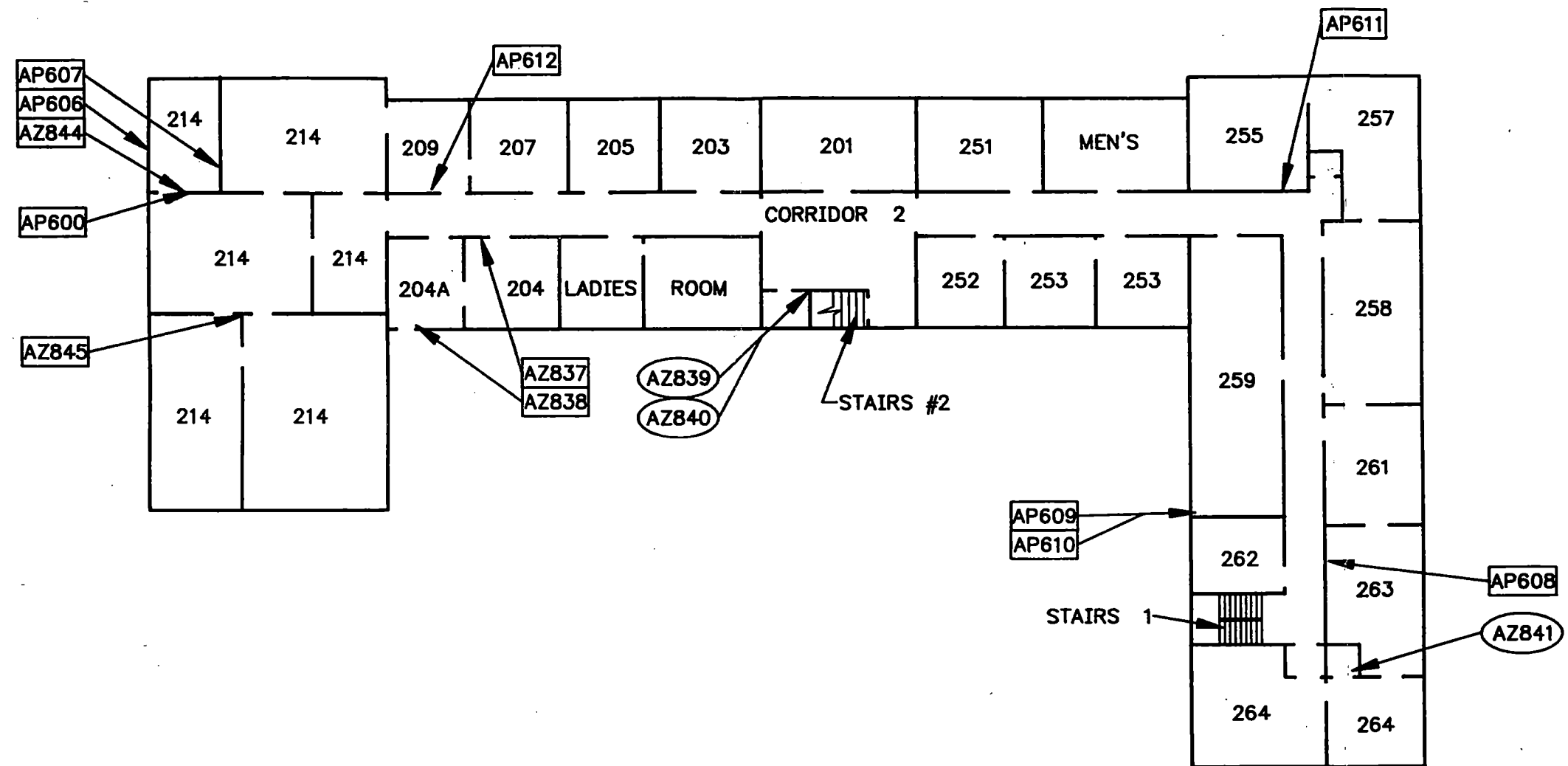
N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE

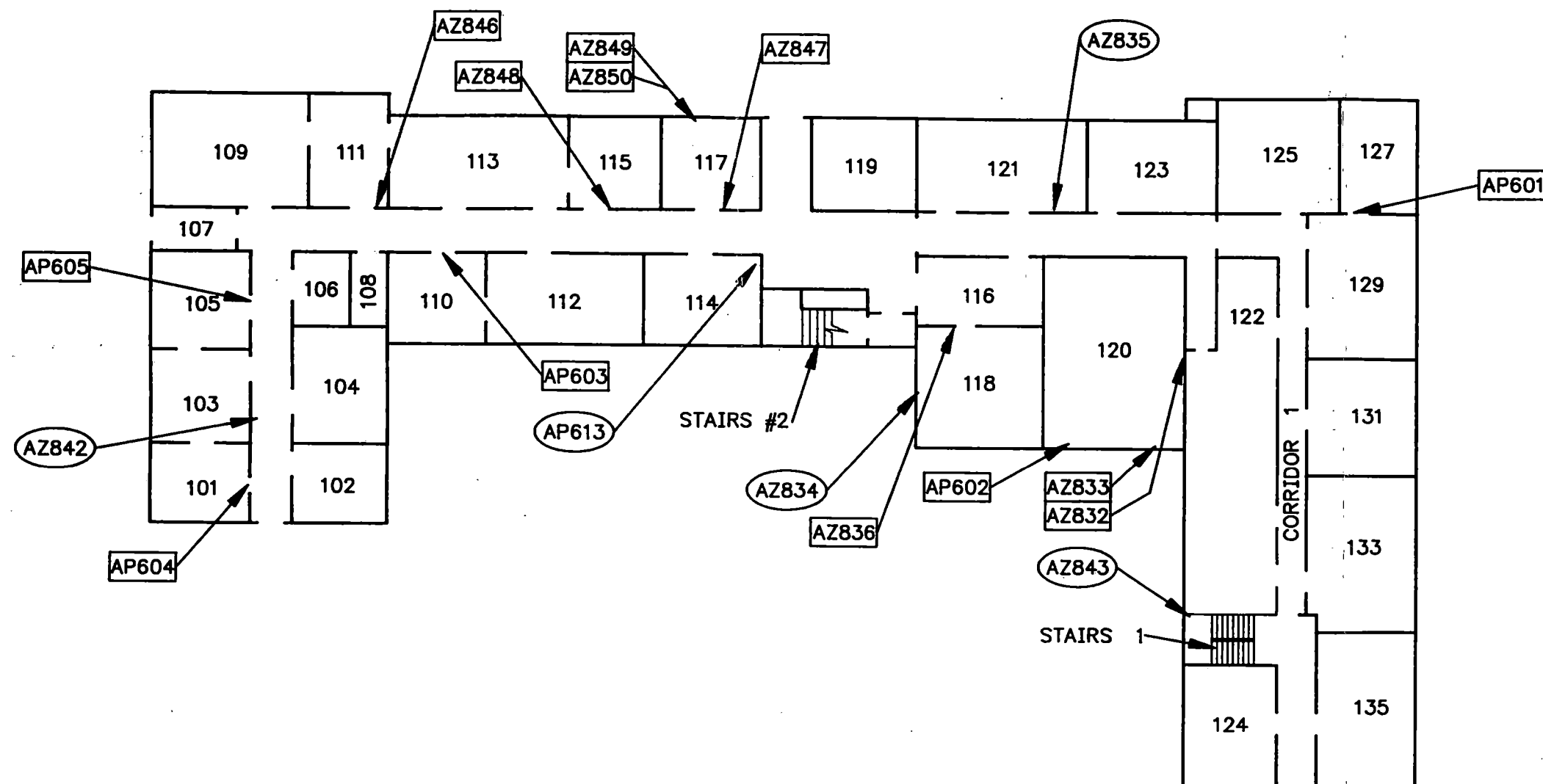
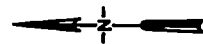
WESTON
MANAGERS



N.T.S.

AZnnn NEGATIVE SAMPLE

9001-15



BUILDING 9001, FIRST FLOOR

N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9004

VACANT BUILDING

9004

VACANT BUILDING

9004.1 GENERAL

Building 9004 was surveyed by WESTON technicians on 28 November 1989 through 19 December 1989.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 20 samples of suspect material collected from the building. Of these samples, 12 were found to be asbestos-containing materials (ACM). Table 9004.1 lists the analytical results for the bulk samples.

9004.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9004 are presented in Table 9004.1. An area-by-area inventory of ACM is provided in Table 9004.2 and 9004.3. "Other Asbestos-Containing Materials," listed in Table 9004.3, are materials which do not match the standard caption categories listed in Table 9004.2. A prioritized listing of exposure assessments is presented in Table 9004.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9004.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9004.2 and 9004.5.

9004.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Place ACM warning signs at attic access points.

TABLE 9004.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9004, NO NAME
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP638	ATTIC,N, ABOVE CEILING	DEBRIS	OTH,DEBRIS	30	-	-	YES
AP644	ATTIC,N, ABOVE CEILING	<4" PIPE RUN	WHITE,OTH,PIPE RUN,HORIZONTAL	55	-	-	NO
AP645	ATTIC,N, ABOVE CEILING	<4" PIPE FITTING	WHITE,UNK,FITTING	30	-	-	NO
AP646	ATTIC,C, ABOVE CEILING	4-8" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	50	-	-	NO
AP647	ATTIC,E, ABOVE CEILING	4-8" PIPE FITTING	WHITE,UNK,FITTING	30	-	-	NO
AP648	ATTIC,E, ABOVE CEILING	4-8" PIPE FITTING	WHITE,UNK,FITTING	30	-	-	NO
AP649	ATTIC,C, ABOVE CEILING	4-8" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	35	-	-	NO
AP650	ATTIC,C	4-8" PIPE RUN	WHITE,UNK,PIPE RUN	40	-	-	YES
AP651	ATTIC,E, ABOVE CEILING	<4" PIPE FITTING	WHITE,UNK,FITTING	20	-	-	NO
AP652	ATTIC,E, ABOVE CEILING	<4" PIPE FITTING	WHITE,UNK,FITTING	25	-	-	NO
AP653	ATTIC,W, ABOVE CEILING	4-8" PIPE FITTING	WHITE,UNK,FITTING	20	-	-	NO
AP654	ATTIC,W, ABOVE CEILING	<4" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	40	-	-	YES
AP656	ROOM 4,S,BELOW CEILING	ACOUSTICAL WALL TILE	BLACK,OTH,CEIL TILE,VERTICAL	-	-	-	NO
AP657	ROOM 4,N,BELOW CEILING	ACOUSTICAL WALL TILE	BROWN,OTH,CEIL TILE,VERTICAL	-	-	-	NO
AP658	ROOM 4,S,BELOW CEILING	ACOUSTICAL WALL TILE	BROWN,OTH,CEIL TILE,VERTICAL	-	-	-	NO
AP659	ROOM 1,SE,BELOW CEILING	FLOOR TILE	RED,OTH,FLOOR TILE,HORIZONTAL	-	-	-	NO
AP660	ROOM 1,SE	DUPLICATE SAMPLE	RED,OTH,FLOOR TILE,HORIZONTAL	-	-	-	YES
AP661	CORRIDOR,N,BELOW CEILING	FLOOR TILE	RED,OTH,FLOOR TILE,HORIZONTAL	-	-	-	YES
AP662	ROOM 1,NW,BELOW CEILING	FLOOR TILE	RED,OTH,FLOOR TILE,HORIZONTAL	-	-	-	YES
AP663	ROOM 3,N,BELOW CEILING	FLOOR TILE	RED,OTH,FLOOR TILE,HORIZONTAL	-	-	-	YES

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C = Center
N = North
E = East
S = South
W = West
NE = Northeast
NW = Northwest
SE = Southeast
SW = Southwest

System Codes

STM = Steam
CHW = Chilled Water
HHW = Heating Hot Water
DOM = Domestic Water
OTH = Other
UNK = Unknown

Asbestos Types

CH = Chrysotile
AM = Amosite
OT = Other

TABLE 9004.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9004, NO NAME

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
ATTIC	102	40	-	-	176	382	-	-	-	-	-	-	*
ROOM 3	-	-	-	-	-	4	-	-	-	-	-	-	-
TOTALS	102	40	-	-	176	386	-	-	-	-	-	-	*

* Other material present in various units of measure. See Table 9004.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9004.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 9004, NO NAME

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
ATTIC	DEBRIS	4.000 (MSF)

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

9004-5

TABLE 9004.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9004, NO NAME
 TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AP638	ATTIC	DEBRIS	B	1.325E02	3	3	2	1	1	1.00	30
AP644	ATTIC	<4" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	55
AP646	ATTIC	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	50
AP646	ROOM 3	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	50
AP650	ATTIC	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	40
AP654	ATTIC	<4" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	40
AP645	ATTIC	<4" PIPE FITTING	A	2.300E01	2	3	2	1	1	1.00	30
AP647	ATTIC	4-8" PIPE FITTING	A	2.300E01	2	3	2	1	1	1.00	30
AP648	ATTIC	4-8" PIPE FITTING	A	2.300E01	2	3	2	1	1	1.00	30
AP649	ATTIC	4-8" PIPE RUN	A	2.300E01	2	3	2	1	1	1.00	35
AP651	ATTIC	<4" PIPE FITTING	A	2.300E01	2	3	2	1	1	1.00	20
AP652	ATTIC	<4" PIPE FITTING	A	2.300E01	2	3	2	1	1	1.00	25
AP653	ATTIC	4-8" PIPE FITTING	A	2.300E01	2	3	2	1	1	1.00	20
AP656	ROOM 4	ACOUSTICAL WALL TILE	A	0	2	3	2	1	1	1.00	0
AP657	ROOM 4	ACOUSTICAL WALL TILE	A	0	2	3	2	1	1	1.00	0
AP658	ROOM 4	ACOUSTICAL WALL TILE	A	0	2	3	2	1	1	1.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9004.5

COST ESTIMATE* - BUILDING 9004, NO NAME
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

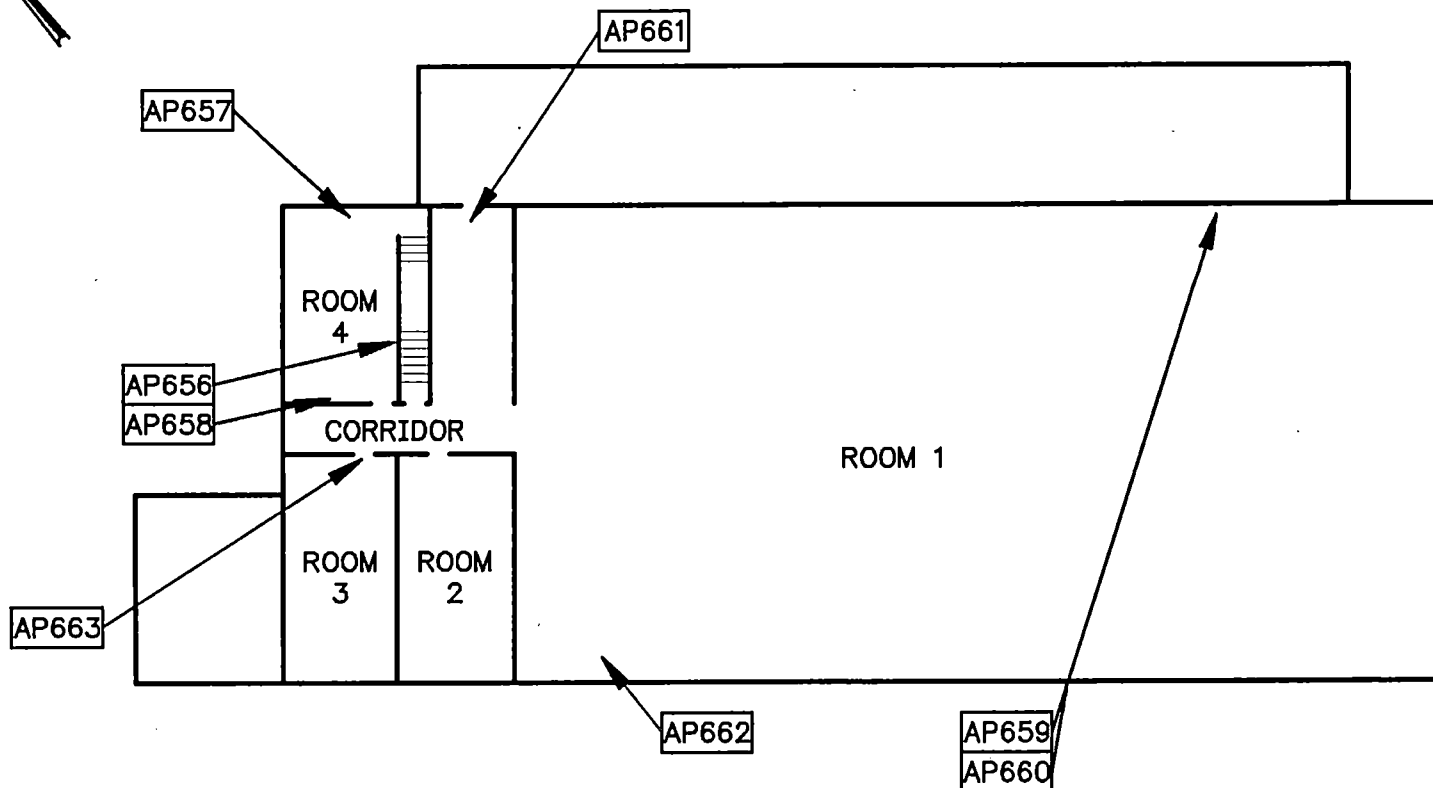
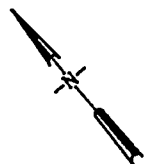
DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	7.2	-	7.2
4-8"	85.80	3.4	-	3.4
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	4.7	-	4.7
4-8"	30.50	11.7	0.1	11.8
9-14"	42.50	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	-	-	-
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		80.0	-	80.0
SUBTOTAL		106.9	0.1	107.0
Difficulty Allowance		-	-	-
SUBTOTAL		106.9	0.1	107.0
Decontamination Units		1.6	1.6	3.1
Mobilization		2.1	2.1	4.2
SUBTOTAL		110.6	3.8	114.3
Contingency @ 15.00%		16.6	0.6	17.2
SUBTOTAL		127.2	4.3	131.5
Design Fee @ 6.00%		7.6	0.3	7.9
SUBTOTAL		134.8	4.6	139.4
Air Monitoring		7.0	7.0	13.9
TOTAL		141.8	11.6	153.3

* Amounts Are In Thousands Of Dollars

** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: ATTIC

AREA 2: ROOM 3



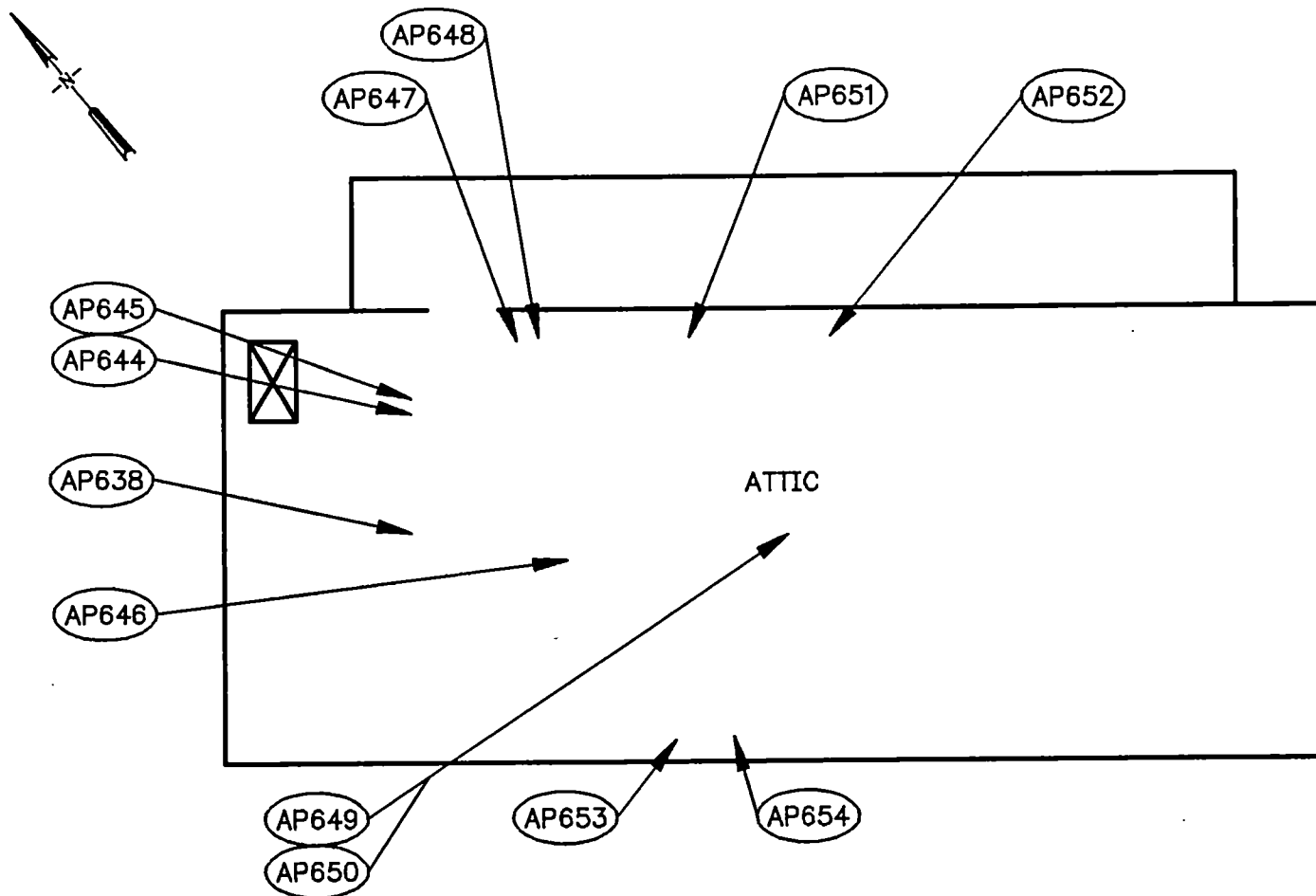
BUILDING 9004, FIRST FLOOR

N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE



BUILDING 9004, ATTIC

N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9005

VACANT BUILDING

9005

VACANT BUILDING

9005.1 GENERAL

Building 9005 was surveyed by WESTON technicians on 28 November 1989 through 19 December 1989.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze seven samples of suspect material collected from the building. Of these samples, seven were found to be asbestos-containing materials (ACM). Table 9005.1 lists the analytical results for the bulk samples.

9005.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9005 are presented in Table 9005.1. An area-by-area inventory of ACM is provided in Table 9005.2 and 9005.3. "Other Asbestos-Containing Materials," listed in Table 9005.3, are materials which do not match the standard caption categories listed in Table 9005.2. A prioritized listing of exposure assessments is presented in Table 9005.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9005.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9005.2 and 9005.5.

9005.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o ACM should be labeled under O&M Program.

TABLE 9005.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9005, NO NAME

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP664	ROOM 3, SE, BELOW CEILING	FLOOR TILE	BLACK, OTH, FLOOR TILE, HORIZONTAL	15	-	-	NO
AP665	ROOM 1, E, BELOW CEILING	FLOOR TILE	BLACK, OTH, FLOOR TILE, HORIZONTAL	10	-	-	NO
AP666	ROOM 1, SW, BELOW CEILING	FLOOR TILE	BLACK, OTH, FLOOR TILE, HORIZONTAL	7	-	-	NO
AP667	ROOM 2, S, BELOW CEILING	FLOOR TILE	BLACK, OTH, FLOOR TILE, HORIZONTAL	10	-	-	NO
AP668	ROOM 1, N, BELOW CEILING	FLOOR TILE	BLACK, OTH, FLOOR TILE, HORIZONTAL	7	-	-	NO
AP669	ROOM 1, W, BELOW CEILING	SPRAYED/TROWELED MATERIAL	WHITE, OTH, TROWEL-ON, HORIZONTAL	50	-	-	NO
AP670	ROOM 1, W, BELOW CEILING	DUPLICATE SAMPLE	WHITE, OTH, TROWEL-ON, HORIZONTAL	65	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.Quadrant Codes

C - Center
 N - North
 E - East
 S - South
 W - West
 NE - Northeast
 NW - Northwest
 SE - Southeast
 SW - Southwest

System Codes

STM - Steam
 CHW - Chilled Water
 HHW - Heating Hot Water
 DOM - Domestic Water
 OTH - Other
 UNK - Unknown

Asbestos Types

CH - Chrysotile
 AM - Amosite
 OT - Other

TABLE 9005.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9005, NO NAME

TYPE OCCUPANCY: ADULTS (GOVERNMENT)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING		OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"				EQUIPMENT (MSF)		
ROOM 1	-	-	-	-	-	-	-	-	0.01	0.82	-	-	-	-
ROOM 2	-	-	-	-	-	-	-	-	-	0.20	-	-	-	-
ROOM 3	-	-	-	-	-	-	-	-	-	0.10	-	-	-	-
TOTALS	-	-	-	-	-	-	-	-	0.01	1.12	-	-	-	-

* Other material present in various units of measure. See Table 9005.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9005.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 9005, NO NAME

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA

MATERIAL TYPE

QUANTITY (UNIT)

NO OTHER ASBESTOS-CONTAINING MATERIAL FOUND IN THIS BUILDING

EA - Each
LF - Linear Feet
MSF - Thousand Square Feet

9005-4

TABLE 9005.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9005, NO NAME
 TYPE OCCUPANCY: ADULTS (GOVERNMENT)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AP669	ROOM 1	SPRAYED/TROWELED MATERIAL	A	7.000E-2	2	1	2	1	1	1.00	50

Priority Index Codes

- A [-] Long Term Corrective Measure
 B [-] Review Management Special Considerations/Remarks
 C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

- 1 [-] Material Friability
 2 [-] Occupant Accessibility
 3 [-] Material Condition
 4 [-] Level Of Activity
 5 [-] Number Of Assigned Occupants

TABLE 9005.5

COST ESTIMATE* - BUILDING 9005, NO NAME
TYPE OCCUPANCY: ADULTS (GOVERNMENT)

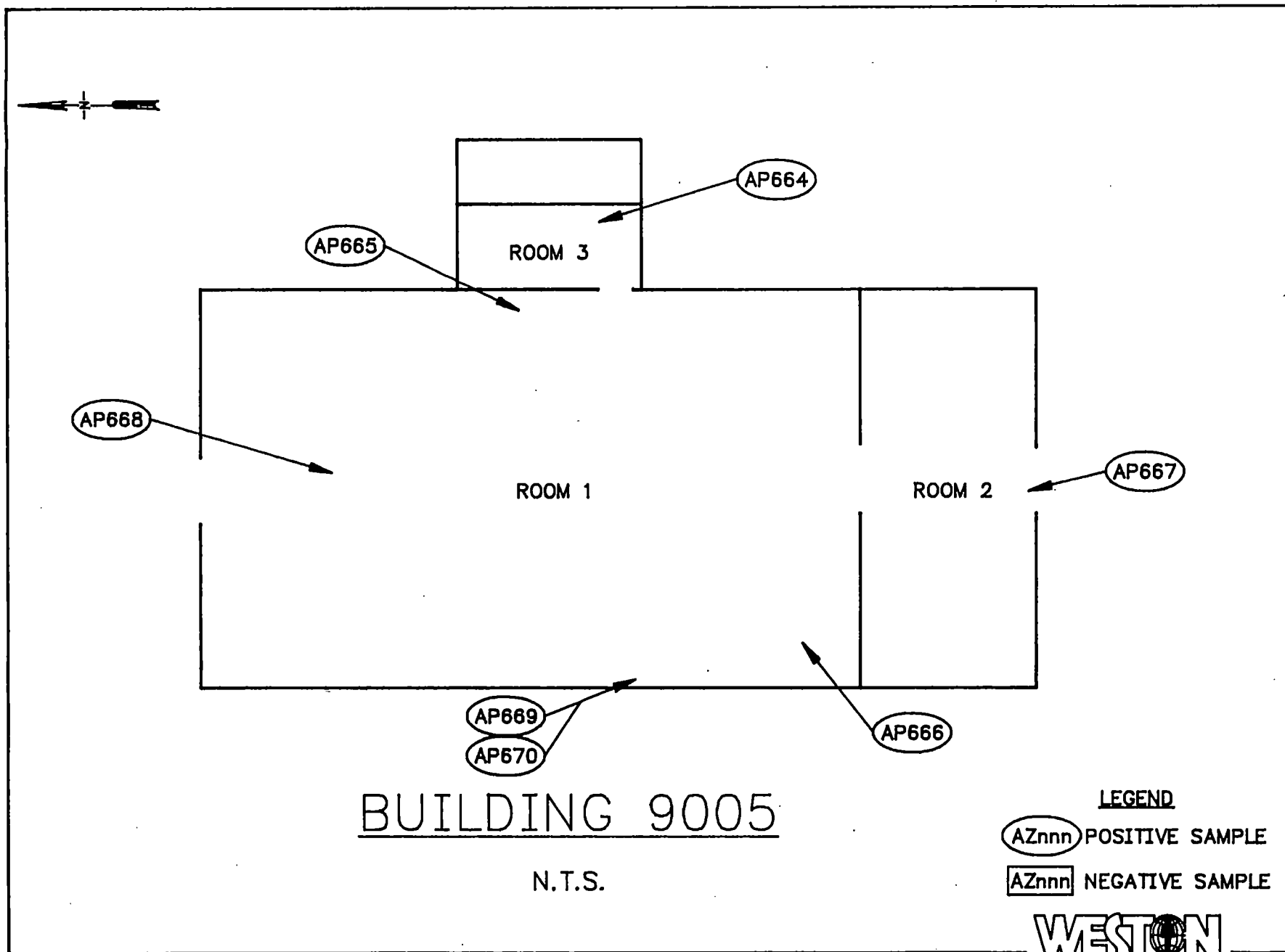
DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	TOTAL
Pipe Fittings (EA)					
<4"	70.30	-	-	-	-
4-8"	85.80	-	-	-	-
9-14"	147.00	-	-	-	-
>14"	216.00	-	-	-	-
Pipe Runs (LF)					
<4"	26.50	-	-	-	-
4-8"	30.50	-	-	-	-
9-14"	42.50	-	-	-	-
>14"	60.80	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	**	-	-	**
Floor Tile (SF)	5.60	4.6	1.1	0.6	6.3
Boilers/Tanks (SF)	37.90	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-
Other		-	-	-	-
SUBTOTAL		4.7	1.1	0.6	6.4
Difficulty Allowance		-	-	-	-
SUBTOTAL		4.7	1.1	0.6	6.4
Decontamination Units		1.0	1.0	1.0	3.1
Mobilization		1.4	1.4	1.4	4.2
SUBTOTAL		7.1	3.6	3.0	13.7
Contingency @ 15.00%		1.1	0.5	0.4	2.1
SUBTOTAL		8.2	4.1	3.4	15.7
Design Fee @ 6.00%		0.5	0.2	0.2	0.9
SUBTOTAL		8.7	4.3	3.6	16.7
Air Monitoring		0.6	0.6	0.6	1.7
TOTAL		9.3	4.9	4.2	18.3

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: ROOM 1
AREA 3: ROOM 3

AREA 2: ROOM 2

**LEGEND**

AZnnn POSITIVE SAMPLE

AZnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9007

**GENERAL PURPOSE LABORATORY
(ABANDONED)**

9007

GENERAL PURPOSE LABORATORY

9007.1 GENERAL

Building 9007 was surveyed by WESTON technicians on 8 January 1990.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 14 samples of suspect material collected from the building. Of these samples, 13 were found to be asbestos-containing materials (ACM). Table 9007.1 lists the analytical results for the bulk samples.

9007.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9007 are presented in Table 9007.1. An area-by-area inventory of ACM is provided in Table 9007.2 and 9007.3. "Other Asbestos-Containing Materials," listed in Table 9005.3, are materials which do not match the standard caption categories listed in Table 9007.2. A prioritized listing of exposure assessments is presented in Table 9007.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9007.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9007.2 and 9007.5.

9007.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- 0 Posting ACM warning signs on building.

TABLE 9007.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9007, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP671	AREA 1,NW,BELOW CEILING	<4" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	65	-	-	NO
AP672	AREA 1,NW,BELOW CEILING	4-8" PIPE FITTING	WHITE,UNK,FITTING	70	-	-	NO
AP673	AREA 1,NW,BELOW CEILING	4-8" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	70	-	-	NO
AP674	AREA 1,NW,BELOW CEILING	4-8" PIPE FITTING	WHITE,UNK,FITTING	-	-	-	NO
AP675	AREA 1,NW,BELOW CEILING	4-8" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	10	-	-	YES
AP676	AREA 1,NW,BELOW CEILING	<4" PIPE FITTING	WHITE,UNK,FITTING	45	-	-	NO
AP677	AREA 1,SE,BELOW CEILING	<4" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	65	-	-	NO
AP678	AREA 1,SW,BELOW CEILING	<4" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	60	-	-	NO
AP679	AREA 1,SE,BELOW CEILING	<4" PIPE FITTING	WHITE,UNK,FITTING	65	-	-	YES
AP680	AREA 1,SE,BELOW CEILING	DUPLICATE SAMPLE	WHITE,UNK,FITTING	60	-	-	YES
AP681	AREA 1,SE,BELOW CEILING	4-8" PIPE FITTING	WHITE,UNK,FITTING	70	-	-	NO
AP682	AREA 1,SE,BELOW CEILING	4-8" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	60	-	-	NO
AP683	AREA 1,NE,BELOW CEILING	TRANSITE PANEL BOARD	OTH,TRANSITE,VERTICAL	30	-	-	NO
AP684	AREA 1,SW,BELOW CEILING	DEBRIS	OTH,DEBRIS,HORIZONTAL	50	-	-	NO

^a Asbestos content presented for layered samples represents the highest concentration layer.Quadrant Codes

C = Center
 N = North
 E = East
 S = South
 W = West
 NE = Northeast
 NW = Northwest
 SE = Southeast
 SW = Southwest

System Codes

STM = Steam
 CHW = Chilled Water
 HHW = Heating Hot Water
 DOM = Domestic Water
 OTH = Other
 UNK = Unknown

Asbestos Types

CH = Chrysotile
 AM = Amosite
 OT = Other

TABLE 9007.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9007, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
AREA 1	51	51	-	-	152	363	-	-	-	-	-	-	*
TOTALS	51	51	-	-	152	363	-	-	-	-	-	-	*

* Other material present in various units of measure. See Table 9007.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9007.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 9007, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
AREA 1	TRANSITE PANEL BOARD	0.10 (MSF)
AREA 1	DEBRIS	2.00 (MSF)

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

9007-4

TABLE 9007.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9007, LAB GENERAL PURPOSE
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	%
					1	2	3	4	5		
AP684	AREA 1	DEBRIS	B	3.750E02	3	3	2	1	1	1.00	50
AP672	AREA 1	4-8" PIPE FITTING	B	1.325E02	3	2	2	1	1	1.00	70
AP676	AREA 1	<4" PIPE FITTING	B	1.325E02	3	2	2	1	1	1.00	45
AP679	AREA 1	<4" PIPE FITTING	B	1.325E02	3	2	2	1	1	1.00	65
AP681	AREA 1	4-8" PIPE FITTING	B	1.325E02	3	2	2	1	1	1.00	70
AP671	AREA 1	<4" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	65
AP673	AREA 1	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	70
AP677	AREA 1	<4" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	65
AP678	AREA 1	<4" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	60
AP682	AREA 1	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	60
AP675	AREA 1	4-8" PIPE RUN	A	2.300E01	2	3	2	1	1	1.00	10
AP683	AREA 1	TRANSITE PANEL BOARD	A	2.750E-5	1	1	1	1	1	1.00	30
AP674	AREA 1	4-8" PIPE FITTING	A	0	3	2	2	1	1	1.00	0

Priority Index Codes

A [-] Long Term Corrective Measure
 B [-] Review Management Special Considerations/Remarks
 C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [-] Material Friability
 2 [-] Occupant Accessibility
 3 [-] Material Condition
 4 [-] Level Of Activity
 5 [-] Number Of Assigned Occupants

TABLE 9007.5

COST ESTIMATE* - BUILDING 9007, LAB GENERAL PURPOSE

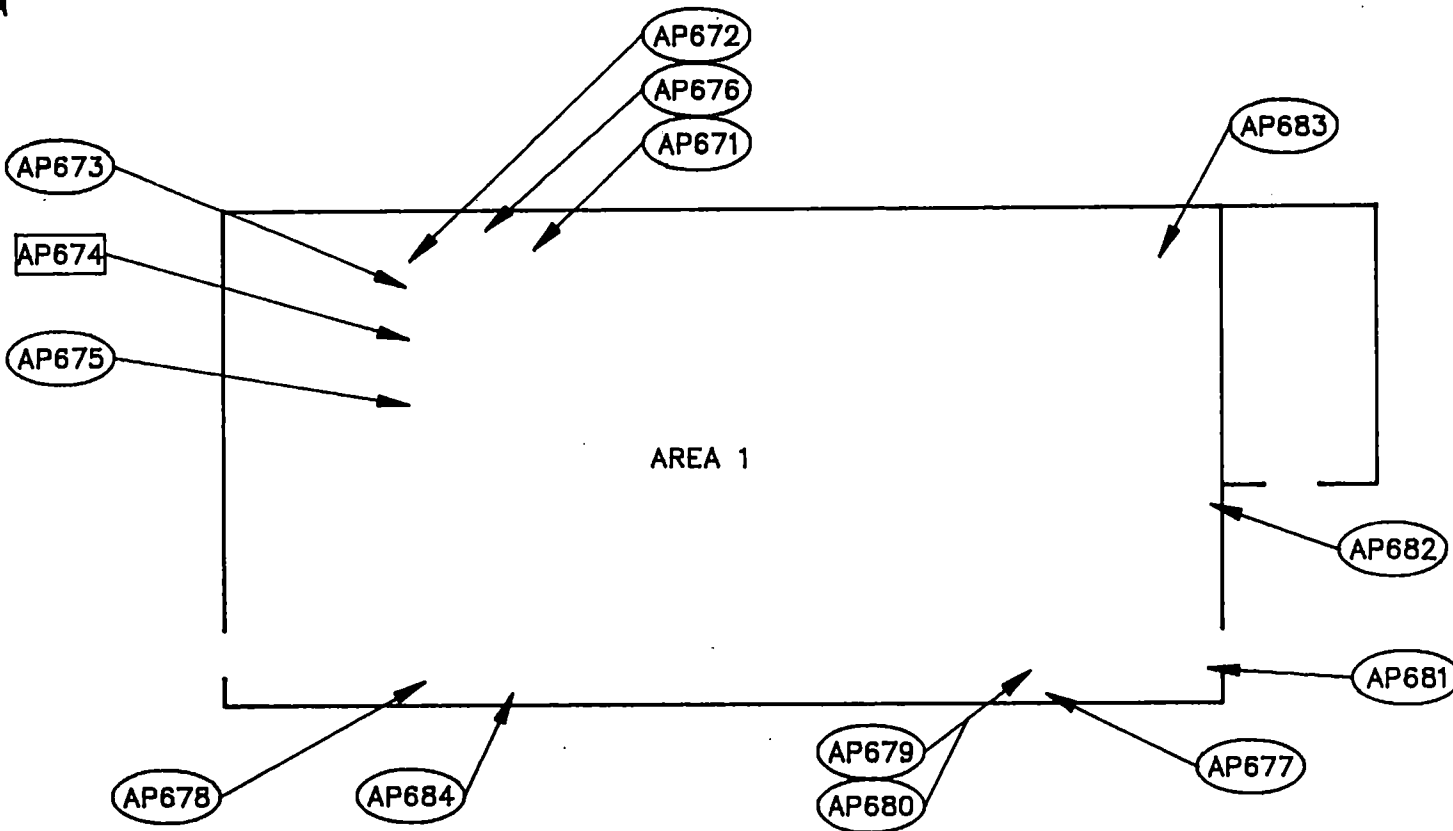
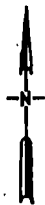
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	3.6	3.6
4-8"	85.80	4.4	4.4
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	4.0	4.0
4-8"	30.50	11.1	11.1
9-14"	42.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	-	-
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		41.1	41.1
SUBTOTAL		64.2	64.2
Difficulty Allowance		23.1	23.1
SUBTOTAL		87.2	87.2
Decontamination Units		3.1	3.1
Mobilization		4.2	4.2
SUBTOTAL		94.5	94.5
Contingency @ 15.00%		14.2	14.2
SUBTOTAL		108.7	108.7
Design Fee @ 6.00%		6.5	6.5
SUBTOTAL		115.2	115.2
Air Monitoring		11.5	11.5
TOTAL		126.7	126.7

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: AREA 1



BUILDING 9007

N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9010

GENERAL PURPOSE LABORATORY

9010

GENERAL PURPOSE LABORATORY

9010.1 GENERAL

Building 9010 was surveyed by WESTON technicians on 9 January 1990 through 11 January 1990.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 40 samples of suspect material collected from the building. Of these samples, 19 were found to be asbestos-containing materials (ACM). Table 9010.1 lists the analytical results for the bulk samples.

9010.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9010 are presented in Table 9010.1. An area-by-area inventory of ACM is provided in Table 9010.2 and 9010.3. "Other Asbestos-Containing Materials," listed in Table 9010.3, are materials which do not match the standard caption categories listed in Table 9010.2. A prioritized listing of exposure assessments is presented in Table 9010.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9010.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9010.2 and 9010.5.

9010.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Place ACM warning signs at attic access points.

TABLE 9010.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9010, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			
				CH	AM	OT	LAYERED ^a
AP685	ATTIC,N,ABOVE CEILING	4-8" PIPE FITTING	WHITE,UNK,FITTING,HORIZONTAL	25	-	-	NO
AP686	ATTIC,N,ABOVE CEILING	4-8" PIPE RUN	GRAY,UNK,PIPE RUN,HORIZONTAL	50	-	-	NO
AP687	ATTIC,N,ABOVE CEILING	DEBRIS	UNK,DEBRIS,HORIZONTAL	45	-	-	NO
AP688	ATTIC,N,ABOVE CEILING	<4" PIPE RUN	GRAY,UNK,PIPE RUN,HORIZONTAL	45	-	-	NO
AP689	ATTIC,C,ABOVE CEILING	<4" PIPE FITTING	WHITE,UNK,FITTING,HORIZONTAL	65	-	-	YES
AP690	ATTIC,C,ABOVE CEILING	DUPLICATE SAMPLE	WHITE,UNK,FITTING,HORIZONTAL	65	-	-	YES
AP691	ATTIC,C,ABOVE CEILING	4-8" PIPE RUN	WHITE,UNK,PIPE RUN,HORIZONTAL	65	-	-	NO
AP692	ATTIC,C,ABOVE CEILING	<4" PIPE RUN	GRAY,UNK,PIPE RUN,HORIZONTAL	12	-	-	YES
AP693	ATTIC,C,ABOVE CEILING	4-8" PIPE FITTING	WHITE,UNK,FITTING,HORIZONTAL	15	-	-	NO
AP694	ATTIC,S,ABOVE CEILING	<4" PIPE FITTING	WHITE,OTH,FITTING	40	-	-	YES
AP695	ATTIC,S,ABOVE CEILING	<4" PIPE RUN	GRAY,OTH,PIPE RUN,HORIZONTAL	15	-	-	YES
AP696	ATTIC,S,ABOVE CEILING	4-8" PIPE FITTING	WHITE,OTH,FITTING	10	-	-	NO
AP697	ATTIC,S,ABOVE CEILING	4-8" PIPE RUN	GRAY,OTH,PIPE RUN,HORIZONTAL	40	-	-	NO
AP698	158,158A,158B,NW,BELOW CEILING	FLOOR TILE	BLACK,OTH,FLOOR TILE,HORIZONTAL	2	-	-	NO
AP699	155,N	CEILING BOARD	WHITE,OTH,CEIL TILE,HORIZONTAL	-	-	-	NO
AP700	155,N	DUPLICATE SAMPLE	WHITE,OTH,CEIL TILE,HORIZONTAL	-	-	-	NO
AP701	155,N	CEILING BOARD	WHITE,OTH,CEIL TILE,HORIZONTAL	-	-	-	NO
AP702	151,151B,S	CEILING BOARD	WHITE,OTH,CEIL TILE,HORIZONTAL	-	-	-	NO
AP703	151,151B,SE,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS TILE,VERTICAL	-	-	-	NO
AP704	CORRIDOR 1,S,BELOW CEILING	FLOOR TILE	BROWN,OTH,FLOOR TILE,HORIZONTAL	2	-	-	NO
AP705	101,S,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS TILE,VERTICAL	-	-	-	YES
AP706	ATTIC,S,ABOVE CEILING	SPRAYED/TROWELED MATERIAL	WHITE,OTH,SPRAY-DOWN	-	-	-	NO
AP707	ATTIC,S,ABOVE CEILING	SPRAYED/TROWELED MATERIAL	WHITE,OTH,SPRAY-DOWN	-	-	-	NO
AP708	ATTIC,C,ABOVE CEILING	SPRAYED/TROWELED MATERIAL	WHITE,OTH,SPRAY-DOWN	-	-	-	NO

^a Asbestos content presented for layered samples represents the highest concentration layer.Quadrant Codes

C = Center
 N = North
 E = East
 S = South
 W = West
 NE = Northeast
 NW = Northwest
 SE = Southeast
 SW = Southwest

System Codes

STM = Steam
 CHW = Chilled Water
 HHW = Heating Hot Water
 DOM = Domestic Water
 OTH = Other
 UNK = Unknown

Asbestos Types

CH = Chrysotile
 AM = Amosite
 OT = Other

TABLE 9010.1
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9010, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP709	ATTIC, C, ABOVE CEILING	SPRAYED/TROWELED MATERIAL	WHITE, OTH, SPRAY-DOWN	-	-	-	NO
AP710	ATTIC, C, ABOVE CEILING	DUPLICATE SAMPLE	WHITE, OTH, SPRAY-DOWN	-	-	-	NO
AP711	ATTIC, C, ABOVE CEILING	SPRAYED/TROWELED MATERIAL	WHITE, OTH, SPRAY-DOWN	-	-	-	NO
AP712	ATTIC, N, ABOVE CEILING	SPRAYED/TROWELED MATERIAL	WHITE, OTH, SPRAY-DOWN	-	-	-	NO
AP713	COFFEE ROOM, C, BELOW CEILING	FLOOR TILE	WHITE, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP714	VESTIBULE, S, BELOW CEILING	FLOOR TILE	WHITE, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP715	AC ROOM 2, S, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, ACOUS TILE, VERTICAL	-	-	-	YES
AP716	CORRIDOR 1, N, BELOW CEILING	CEILING BOARD	WHITE, OTH, ACOUS TILE, VERTICAL	-	-	-	YES
AP717	ATTIC, C, ABOVE CEILING	<4" PIPE RUN	GRAY, OTH, PIPE RUN, HORIZONTAL	10	-	-	YES
AP718	ATTIC, C, ABOVE CEILING	<4" PIPE RUN	GRAY, OTH, PIPE RUN, HORIZONTAL	11	-	-	YES
AP719	ATTIC, C, ABOVE CEILING	4-8" PIPE RUN	GRAY, OTH, PIPE RUN, HORIZONTAL	60	-	-	NO
AP720	ATTIC, C, ABOVE CEILING	DUPLICATE SAMPLE	GRAY, OTH, PIPE RUN, HORIZONTAL	60	-	-	YES
AP721	MENS ROOM 2, N	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	YES
AP722	31, C, BELOW CEILING	ACOUSTICAL WALL TILE	WHITE, OTH, ACOUS TILE, VERTICAL	-	-	-	YES
AP723	34, 36, 38, 40, 44, N	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	YES
AP724	152, S	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	YES

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C - Center
N - North
E - East
S - South
W - West
NE - Northeast
NW - Northwest
SE - Southeast
SW - Southwest

System Codes

STM - Steam
CHW - Chilled Water
HHW - Heating Hot Water
DOM - Domestic Water
OTH - Other
UNK - Unknown

Asbestos Types

CH - Chrysotile
AM - Amosite
OT - Other

TABLE 9010.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9010, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
100,102,104,108	-	-	-	-	-	-	-	-	-	1.86	-	-	-
101	-	-	-	-	-	-	-	-	-	0.23	-	-	-
103,105,107,114	-	-	-	-	-	-	-	-	-	1.62	-	-	-
112	-	-	-	-	-	-	-	-	-	0.50	-	-	-
13,17,19	-	-	-	-	-	-	-	-	-	1.13	-	-	-
151,151B	-	-	-	-	-	-	-	-	-	0.45	-	-	-
152	-	-	-	-	-	-	-	-	-	0.68	-	-	-
153,153A	-	-	-	-	-	-	-	-	-	0.50	-	-	-
155	-	-	-	-	-	-	-	-	-	2.27	-	-	-
156	-	-	-	-	-	-	-	-	-	0.41	-	-	-
157	-	-	-	-	-	-	-	-	-	0.18	-	-	-
158,158A,158B	-	-	-	-	-	-	-	-	-	0.78	-	-	-
2	-	-	-	-	10	-	-	-	-	0.23	-	-	-
24	-	-	-	-	-	-	-	-	-	0.85	-	-	-
25,33,35,39,47	-	-	-	-	-	-	-	-	-	2.35	-	-	-
28,32	-	-	-	-	-	-	-	-	-	0.51	-	-	-
3,5,7,9	-	-	-	-	-	-	-	-	-	1.25	-	-	-
31	-	-	-	-	-	-	-	-	-	0.46	-	-	-
34,36,38,40,44	-	-	-	-	-	-	-	-	-	1.27	-	-	-
4,6,8,10,12	-	-	-	-	-	-	-	-	-	1.43	-	-	-
AC ROOM 1	-	-	-	-	-	-	-	-	-	0.06	-	-	-
AC ROOM 2	-	-	-	-	-	-	-	-	-	0.12	-	-	-
ATTIC	637	337	-	-	3064	2404	-	-	-	-	-	-	*
COPIER ROOM	-	-	-	-	-	-	-	-	-	0.13	-	-	-
CORRIDOR 1	-	-	-	-	-	-	-	-	-	0.82	-	-	-
CORRIDOR 2	-	-	-	-	-	-	-	-	-	1.96	-	-	-
CORRIDOR 3	-	-	-	-	-	-	-	-	-	0.48	-	-	-
VESTIBULE 1	-	-	-	-	-	-	-	-	-	0.08	-	-	-
TOTALS	637	337	-	-	3074	2404	-	-	-	22.60	-	-	*

* Other material present in various units of measure. See Table 9010.3 for material descriptions.

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9010.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 9010, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
ATTIC	DEBRIS	30.00 (MSF)

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

9010-5

TABLE 9010.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9010, LAB GENERAL PURPOSE
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	%
					1	2	3	4	5		
AP687	ATTIC	DEBRIS	B	3.750E02	3	3	2	1	1	1.00	45
AP686	ATTIC	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	50
AP688	ATTIC	<4" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	45
AP691	ATTIC	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	65
AP697	ATTIC	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	40
AP719	ATTIC	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	60
AP685	ATTIC	4-8" PIPE FITTING	A	2.300E01	2	3	2	1	1	1.00	25
AP689	ATTIC	<4" PIPE FITTING	A	2.300E01	2	3	1	1	1	1.00	65
AP692	ATTIC	<4" PIPE RUN	A	2.300E01	2	3	2	1	1	1.00	12
AP693	ATTIC	4-8" PIPE FITTING	A	2.300E01	2	3	2	1	1	1.00	15
AP694	ATTIC	<4" PIPE FITTING	A	2.300E01	2	3	1	1	1	1.00	40
AP695	ATTIC	<4" PIPE RUN	A	2.300E01	2	3	2	1	1	1.00	15
AP696	ATTIC	4-8" PIPE FITTING	A	2.300E01	2	3	2	1	1	1.00	10
AP717	ATTIC	<4" PIPE RUN	A	2.300E01	2	3	2	1	1	1.00	10
AP718	ATTIC	<4" PIPE RUN	A	2.300E01	2	3	2	1	1	1.00	11
AP688	2	<4" PIPE RUN	A	1.160E01	1	2	1	2	2	40.00	45
AP699	155	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	157	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	24	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	28,32	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	CORRIDOR 2	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	LADIES ROOM 1	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	MENS ROOM 1	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	MENS ROOM 3	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	MENS ROOM 4	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	WOMENS ROOM 2	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP699	WOMENS ROOM 3	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP701	153,153A	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP701	155	CEILING BOARD	A	0	2	2	1	1	2	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9010.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9010, LAB GENERAL PURPOSE
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
AP701	156	CEILING BOARD	A	0	2	2	1	1	2	40.00	0
AP702	100,102,104,108	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	101	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	103,105,107,114	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	112	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	13,17,19	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	151,151B	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	2	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	25,33,35,39,47	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	31	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	4,6,8,10,12	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	COFFEE ROOM	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	COPIER ROOM	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP702	CORRIDOR 2	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP703	151,151B	ACOUSTICAL WALL TILE	A	0	2	3	1	1	1	40.00	0
AP705	101	ACOUSTICAL WALL TILE	A	0	2	3	1	1	1	40.00	0
AP706	ATTIC	SPRAYED/TROWELED MATERIAL	A	0	3	3	2	1	1	1.00	0
AP707	ATTIC	SPRAYED/TROWELED MATERIAL	A	0	3	3	2	1	1	1.00	0
AP708	ATTIC	SPRAYED/TROWELED MATERIAL	A	0	3	3	2	1	1	1.00	0
AP709	ATTIC	SPRAYED/TROWELED MATERIAL	A	0	3	3	2	1	1	1.00	0
AP711	ATTIC	SPRAYED/TROWELED MATERIAL	A	0	3	3	2	1	1	1.00	0
AP712	ATTIC	SPRAYED/TROWELED MATERIAL	A	0	3	3	2	1	1	1.00	0
AP715	AC ROOM 2	ACOUSTICAL WALL TILE	A	0	2	3	2	1	1	1.00	0
AP715	AC ROOM 2	ACOUSTICAL WALL TILE	A	0	2	3	2	1	1	1.00	0
AP716	CORRIDOR 1	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP721	MENS ROOM 2	CEILING BOARD	A	0	2	2	1	1	3	20.00	0
AP722	31	ACOUSTICAL WALL TILE	A	0	2	3	1	1	1	40.00	0
AP723	34,36,38,40,44	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP724	152	CEILING BOARD	A	0	2	2	1	1	3	20.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessibility
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

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TABLE 9010.5

COST ESTIMATE* - BUILDING 9010, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	10.4	1.3	9.1	2.8	6.3	2.5	3.8	2.8	12.7	2.3	1.0
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		10.4	1.3	9.1	2.8	6.3	2.5	3.8	2.8	12.7	2.3	1.0
Difficulty Allowance		5.2	0.7	4.5	1.4	3.2	-	1.9	1.4	6.4	1.1	0.5
SUBTOTAL		15.6	2.0	13.6	4.2	9.5	2.5	5.7	4.2	19.1	3.4	1.5
Decontamination Units		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		16.0	2.3	14.0	4.6	9.9	2.9	6.1	4.6	19.4	3.8	1.9
Contingency @ 15.00%		2.4	0.4	2.1	0.7	1.5	0.4	0.9	0.7	2.9	0.6	0.3
SUBTOTAL		18.4	2.7	16.1	5.3	11.3	3.3	7.0	5.3	22.4	4.4	2.2
Design Fee @ 6.00%		1.1	0.2	1.0	0.3	0.7	0.2	0.4	0.3	1.3	0.3	0.1
SUBTOTAL		19.5	2.8	17.0	5.6	12.0	3.5	7.4	5.6	23.7	4.6	2.3
Air Monitoring		9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
TOTAL		29.4	12.7	26.9	15.4	21.9	13.4	17.3	15.4	33.6	14.5	12.2

* Amounts Are In Thousands Of Dollars

** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: 100,102,104,108
 AREA 3: 103,105,107,114
 AREA 5: 13,17,19
 AREA 7: 152
 AREA 9: 155
 AREA 11: 157

AREA 2: 101
 AREA 4: 112
 AREA 6: 151,151B
 AREA 8: 153,153A
 AREA 10: 156

TABLE 9010.5
(continued)

COST ESTIMATE* - BUILDING 9010, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

DESCRIPTION	UNIT COST (\$)	AREA 12	AREA 13	AREA 14	AREA 15	AREA 16	AREA 17	AREA 18	AREA 19	AREA 20	AREA 21	AREA 22
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	0.3	-	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	4.4	1.3	4.8	13.2	2.8	7.0	2.6	7.1	8.0	0.3	0.6
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		4.4	1.5	4.8	13.2	2.8	7.0	2.6	7.1	8.0	0.3	0.6
Difficulty Allowance		2.2	0.6	-	6.6	1.4	3.5	1.3	3.6	4.0	-	-
SUBTOTAL		6.5	2.2	4.8	19.7	4.3	10.5	3.9	10.7	12.0	0.3	0.6
Decontamination Units		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		6.9	2.5	5.1	20.1	4.6	10.9	4.2	11.0	12.4	0.7	1.0
Contingency @ 15.00%		1.0	0.4	0.8	3.0	0.7	1.6	0.6	1.7	1.9	0.1	0.2
SUBTOTAL		7.9	2.9	5.9	23.1	5.3	12.5	4.9	12.7	14.2	0.8	1.2
Design Fee @ 6.00%		0.5	0.2	0.4	1.4	0.3	0.8	0.3	0.8	0.9	**	**
SUBTOTAL		8.4	3.1	6.3	24.5	5.6	13.3	5.2	13.5	15.1	0.9	1.2
Air Monitoring		9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
TOTAL		18.3	12.9	16.1	34.4	15.5	23.1	15.0	23.3	25.0	10.7	11.1

* Amounts Are In Thousands Of Dollars

** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 12: 158,158A,158B
 AREA 14: 24
 AREA 16: 28,32
 AREA 18: 31
 AREA 20: 4,6,8,10,12
 AREA 22: AC ROOM 2

AREA 13: 2
 AREA 15: 25,33,35,39,47
 AREA 17: 3,5,7,9
 AREA 19: 34,36,38,40,44
 AREA 21: AC ROOM 1

TABLE 9010.5
(continued)

COST ESTIMATE* - BUILDING 9010, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

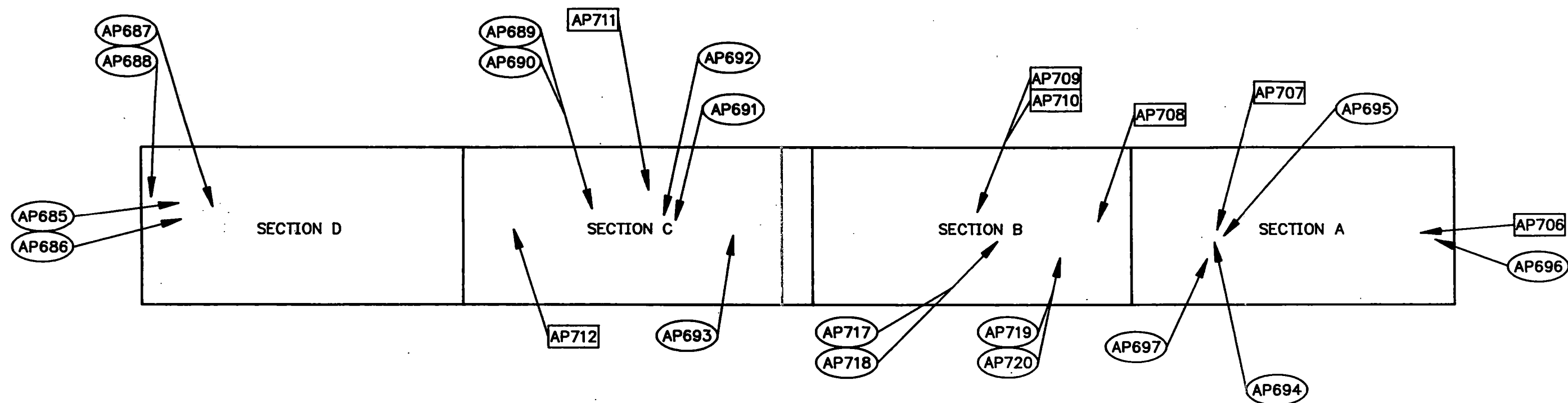
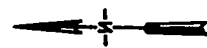
DESCRIPTION	UNIT COST (\$)	AREA 23	AREA 24	AREA 25	AREA 26	AREA 27	AREA 28	TOTAL
Pipe Fittings (EA)								
<4"	70.30	44.8	-	-	-	-	-	44.8
4-8"	85.80	28.9	-	-	-	-	-	28.9
9-14"	147.00	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-
Pipe Runs (LF)								
<4"	26.50	81.2	-	-	-	-	-	81.5
4-8"	30.50	73.3	-	-	-	-	-	73.3
9-14"	42.50	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	0.7	4.6	11.0	2.7	0.5	126.5
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-
Other		600.0	-	-	-	-	-	600.0
SUBTOTAL		828.2	0.7	4.6	11.0	2.7	0.5	955.0
Difficulty Allowance		1242.3	-	2.3	5.5	-	-	1299.5
SUBTOTAL		2070.5	0.7	6.9	16.5	2.7	0.5	2254.6
Decontamination Units		0.2	0.2	0.2	0.2	0.2	0.2	6.2
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	4.2
SUBTOTAL		2070.9	1.1	7.3	16.8	3.1	0.8	2265.0
Contingency @ 15.00%		310.6	0.2	1.1	2.5	0.5	0.1	339.7
SUBTOTAL		2381.5	1.3	8.3	19.4	3.5	1.0	2604.7
Design Fee @ 6.00%		142.9	**	0.5	1.2	0.2	**	156.3
SUBTOTAL		2524.4	1.3	8.8	20.5	3.7	1.0	2761.0
Air Monitoring		9.9	9.9	9.9	9.9	9.9	9.9	276.1
TOTAL		2534.3	11.2	18.7	30.4	13.6	10.9	3037.1

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 23: ATTIC
AREA 25: CORRIDOR 1
AREA 27: CORRIDOR 3

AREA 24: COPIER ROOM
AREA 26: CORRIDOR 2
AREA 28: VESTIBULE 1



BUILDING 9010, ATTIC

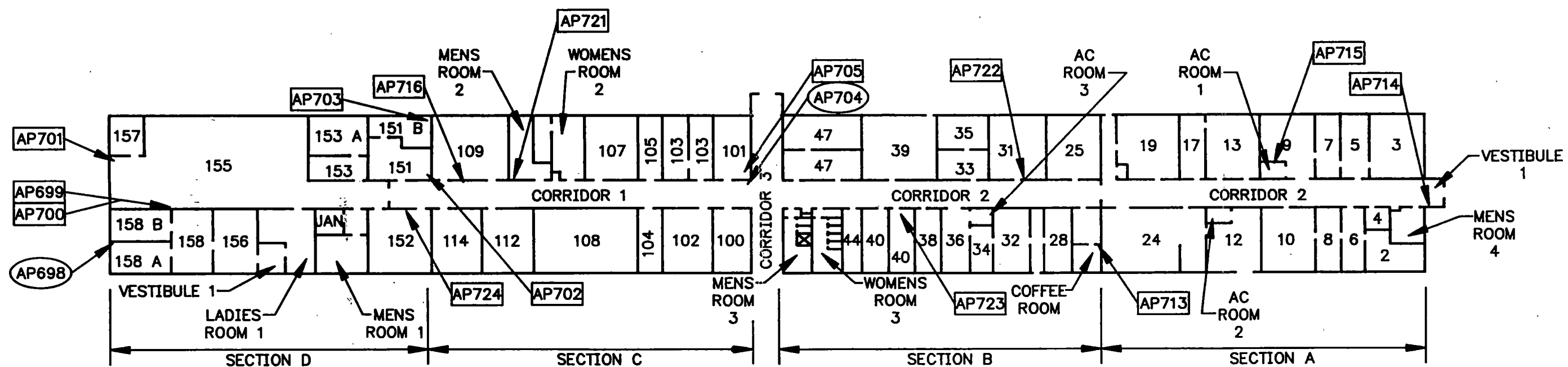
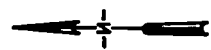
N.T.S.

LEGEND

(AZnnn) POSITIVE SAMPLE

[AZnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



BUILDING 9010

N.T.S.

LEGEND

AZnnn POSITIVE SAMPLE

AZnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9034

GENERAL PURPOSE LABORATORY

9034

GENERAL PURPOSE LABORATORY

9034.1 GENERAL

Building 9034 was surveyed by WESTON technicians on 4 January 1990 through 8 January 1990.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 29 samples of suspect material collected from the building. Of these samples, 14 were found to be asbestos-containing materials (ACM). Table 9034.1 lists the analytical results for the bulk samples.

9034.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9034 are presented in Table 9034.1. An area-by-area inventory of ACM is provided in Table 9034.2 and 9034.3. "Other Asbestos-Containing Materials," listed in Table 9034.3, are materials which do not match the standard caption categories listed in Table 9034.2. A prioritized listing of exposure assessments is presented in Table 9034.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9034.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9034.2 and 9034.5.

9034.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- o Asbestos containing materials should be labeled under O&M Program.

TABLE 9034.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9034, LAB GENERAL PURPOSE
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP614	ATTIC, NA	4-8" PIPE RUN	WHITE, STM, PIPE RUN	65	-	-	YES
AP615	ATTIC, NA, ABOVE CEILING	4-8" PIPE FITTING	WHITE, STM, FITTING	15	-	-	YES
AP616	ATTIC, NA, ABOVE CEILING	4-8" PIPE FITTING	WHITE, STM, FITTING	15	-	-	YES
AP617	ATTIC, NA, ABOVE CEILING	4-8" PIPE RUN	WHITE, STM, PIPE RUN	65	-	-	YES
AP618	ATTIC, NA	<4" PIPE RUN	WHITE, STM, PIPE RUN	4	-	-	YES
AP619	ATTIC, NA	<4" PIPE RUN	WHITE, STM, PIPE RUN	45	-	-	YES
AP620	ATTIC, W	DUPLICATE SAMPLE	WHITE, STM, PIPE RUN	45	-	-	NO
AP621	ATTIC, NA	4-8" PIPE RUN	BLACK, UNK, PIPE RUN	-	-	-	NO
AP622	ATTIC, NA, ABOVE CEILING	<4" PIPE FITTING	WHITE, STM, FITTING	50	-	-	YES
AP623	ATTIC, NA, ABOVE CEILING	4-8" PIPE FITTING	WHITE, STM, FITTING	15	-	-	YES
AP624	ATTIC, NA	4-8" PIPE RUN	WHITE, STM, PIPE RUN	70	-	-	NO
AP625	ATTIC, NA, ABOVE CEILING	<4" PIPE FITTING	WHITE, STM, FITTING	30	-	-	NO
AP626	ATTIC, NA, ABOVE CEILING	<4" PIPE FITTING	WHITE, STM, FITTING	50	-	-	NO
AP627	REST ROOM, NA, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP628	FABRICATION ROOM, NA, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP629	FABRICATION ROOM, NA, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP630	FABRICATION ROOM, SE, BELOW CEILING	DUPLICATE SAMPLE	BROWN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP631	TQM TRAINING, NA, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	NO
AP632	TQM TRAINING, NA, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	-	-	-	YES
AP633	CORRIDOR, NA, BELOW CEILING	FLOOR TILE	BROWN, OTH, FLOOR TILE, HORIZONTAL	<1	-	-	YES
AP634	ATTIC, NA	DEBRIS	BROWN, OTH, DEBRIS	4	-	-	YES
AP635	PUMP ROOM, NA, BELOW CEILING	OTHER MATERIAL	BLACK, OTH, TAR PAPER, VERTICAL	-	-	-	NO
AP636	PUMP ROOM, NA, BELOW CEILING	OTHER MATERIAL	BLACK, OTH, TAR PAPER, VERTICAL	-	-	-	NO
AP637	PUMP ROOM, NA, BELOW CEILING	OTHER MATERIAL	BLACK, OTH, TAR PAPER, VERTICAL	-	-	-	NO

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C = Center
 N = North
 E = East
 S = South
 W = West
 NE = Northeast
 NW = Northwest
 SE = Southeast
 SW = Southwest

System Codes

STM = Steam
 CHW = Chilled Water
 HHW = Heating Hot Water
 DOM = Domestic Water
 OTH = Other
 UNK = Unknown

Asbestos Types

CH = Chrysotile
 AM = Amosite
 OT = Other

TABLE 9034.1
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9034, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
AP639	TQM TRAINING, SW	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP640	TQM TRAINING, SW	DUPLICATE SAMPLE	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP641	PLANT MANAGER OFFICE, SE	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP642	CORRIDOR, SE	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO
AP643	ENGINEERING, SW	CEILING BOARD	WHITE, OTH, CEIL TILE, HORIZONTAL	-	-	-	NO

^a Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

C - Center
N - North
E - East
S - South
W - West
NE - Northeast
NW - Northwest
SE - Southeast
SW - Southwest

System Codes

STM - Steam
CHW - Chilled Water
RHW - Heating Hot Water
DOM - Domestic Water
OTH - Other
UNK - Unknown

Asbestos Types

CH - Chrysotile
AM - Amosite
OT - Other

TABLE 9034.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9034, LAB GENERAL PURPOSE
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED	FLOOR TILE	BOILERS/	AIR HANDLING	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	
ATTIC	42	32	-	-	251	402	-	-	-	-	-	-	*
CORRIDOR	-	-	-	-	-	-	-	-	-	0.48	-	-	-
PLANT MANAGER OFFICE	-	-	-	-	10	-	-	-	-	-	-	-	-
TOTALS	42	32	-	-	261	402	-	-	-	0.48	-	-	*

* Other material present in various units of measure. See Table 9034.3 for material descriptions.

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

TABLE 9034.3

OTHER ASBESTOS-CONTAINING MATERIAL - BUILDING 9034, LAB GENERAL PURPOSE

TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	MATERIAL TYPE	QUANTITY (UNIT)
ATTIC	DEBRIS	7.2 (MSF)

EA - Each
 LF - Linear Feet
 MSF - Thousand Square Feet

9034-5

TABLE 9034.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9034, LAB GENERAL PURPOSE
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	%
					1	2	3	4	5		
AP622	ATTIC	<4" PIPE FITTING	B	3.750E02	3	3	2	1	1	1.00	50
AP626	ATTIC	<4" PIPE FITTING	B	3.750E02	3	3	2	1	1	1.00	50
AP615	ATTIC	4-8" PIPE FITTING	B	1.325E02	3	3	2	1	1	1.00	15
AP616	ATTIC	4-8" PIPE FITTING	B	1.325E02	3	3	2	1	1	1.00	15
AP623	ATTIC	4-8" PIPE FITTING	B	1.325E02	3	3	2	1	1	1.00	15
AP625	ATTIC	<4" PIPE FITTING	B	1.325E02	3	3	2	1	1	1.00	30
AP614	ATTIC	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	65
AP617	ATTIC	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	65
AP619	ATTIC	<4" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	45
AP624	ATTIC	4-8" PIPE RUN	A	6.500E01	2	3	2	1	1	1.00	70
AP634	ATTIC	DEBRIS	A	2.300E01	3	3	2	1	1	1.00	4
AP618	ATTIC	<4" PIPE RUN	A	4.000E00	2	3	2	1	1	1.00	4
AP618	PLANT MANAGER OFFICE	<4" PIPE RUN	A	2.000E-4	1	1	1	1	1	40.00	4
AP621	ATTIC	4-8" PIPE RUN	A	0	1	3	1	1	1	1.00	0
AP639	LUNCH ROOM	CEILING BOARD	A	0	2	2	1	1	10	40.00	0
AP639	STORE ROOM	CEILING BOARD	A	0	2	2	1	1	10	40.00	0
AP639	TEST AND REWORK	CEILING BOARD	A	0	2	2	1	1	10	40.00	0
AP639	TQM TRAINING	CEILING BOARD	A	0	2	2	1	1	10	40.00	0
AP641	PLANT MANAGER OFFICE	CEILING BOARD	A	0	2	2	1	1	1	40.00	0
AP642	CORRIDOR	CEILING BOARD	A	0	2	2	1	1	1	20.00	0
AP643	ENGINEERING	CEILING BOARD	A	0	2	2	1	1	20	40.00	0

Priority Index Codes

A [-] Long Term Corrective Measure
 B [-] Review Management Special Considerations/Remarks
 C [-] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [-] Material Friability
 2 [-] Occupant Accessibility
 3 [-] Material Condition
 4 [-] Level Of Activity
 5 [-] Number Of Assigned Occupants

TABLE 9034.5

COST ESTIMATE* - BUILDING 9034, LAB GENERAL PURPOSE
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

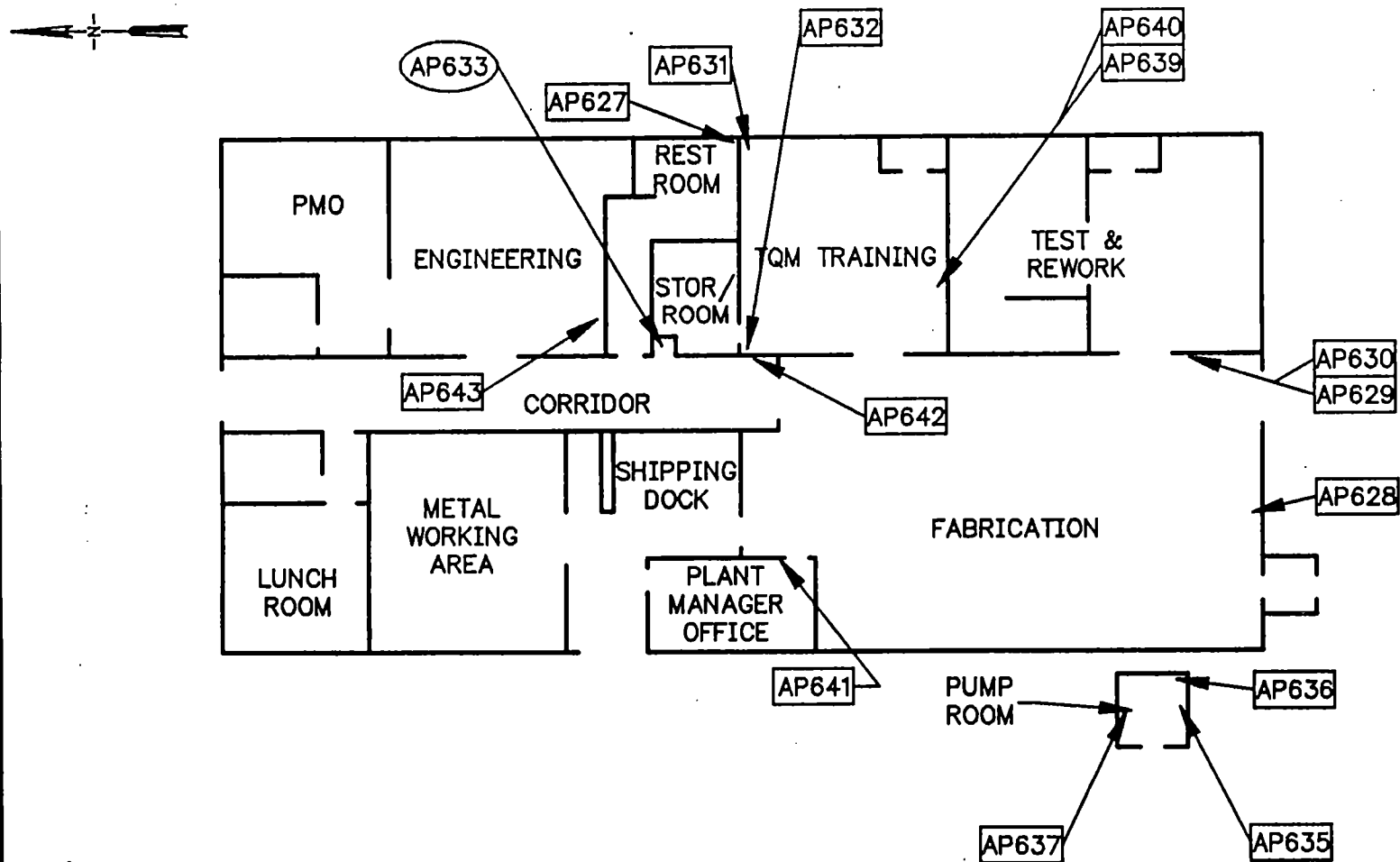
DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	TOTAL
Pipe Fittings (EA)					
<4"	70.30	3.0	-	-	3.0
4-8"	85.80	2.7	-	-	2.7
9-14"	147.00	-	-	-	-
>14"	216.00	-	-	-	-
Pipe Runs (LF)					
<4"	26.50	6.7	-	0.3	6.9
4-8"	30.50	12.3	-	-	12.3
9-14"	42.50	-	-	-	-
>14"	60.80	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-
Floor Tile (SF)	5.60	-	2.7	-	2.7
Boilers/Tanks (SF)	37.90	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-
Other		144.0	-	-	144.0
SUBTOTAL		168.6	2.7	0.3	171.5
Difficulty Allowance		168.6	-	-	168.6
SUBTOTAL		337.2	2.7	0.3	340.2
Decontamination Units		1.0	1.0	1.0	3.1
Mobilization		1.4	1.4	1.4	4.2
SUBTOTAL		339.7	5.1	2.7	347.5
Contingency @ 15.00%		50.9	0.8	0.4	52.1
SUBTOTAL		390.6	5.9	3.1	399.6
Design Fee @ 6.00%		23.4	0.4	0.2	24.0
SUBTOTAL		414.0	6.2	3.3	423.5
Air Monitoring		14.1	14.1	14.1	42.4
TOTAL		428.2	20.3	17.4	465.9

*Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

AREA 1: ATTIC
AREA 3: PLANT MANAGER OFFICE

AREA 2: CORRIDOR



BUILDING 9034

N.T.S.

LEGEND

AZnnn POSITIVE SAMPLE

AZnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

