

PROJECT:

**STRATFORD ARMY ENGINE PLANT
ASBESTOS UPDATE SURVEY**



OSPREY ENVIRONMENTAL ENGINEERING, LLC
146 East Main Street Clinton, CT 06413
Phone: 860.669.8651 Fax: 860.664.3751

Mr. Richard Barlow
Ferguson-Williams Incorporated
550 Main Street
Stratford, CT 06615

18 March 2013

Re: Asbestos Resurvey Report, Stratford Army Engine Plant, 550 Main Street, Stratford, CT

Per your request, visual observations were made of asbestos containing materials listed in the "Final Asbestos Survey Report – Volumes I & II" prepared by Malcolm Pirnie and dated April 1998. All buildings on the site were visited, and visual observations were made of confirmed and suspect asbestos containing materials. Overall, the buildings were in good condition with respect to the asbestos containing materials. With a few exceptions, roofing, windows, and doors have been maintained, which has prevented water from entering most of the buildings and causing damage to building materials. Most of the buildings are unoccupied, which also has prevented deterioration of building materials since the completion of the 1998 survey.

Building materials were visually observed. Building material samples were not collected for asbestos analysis. Observation of materials was in accordance with the following:

- Materials listed in the report were observed. Some materials listed as being asbestos containing, in particular pipe insulation, did not appear to be asbestos containing materials. Pipe wrap listed in the report in many cases was obviously fiberglass insulation, and was therefore not an asbestos containing material. These materials were not quantified.
- Floor tiles were in various states of physical integrity. Much of the floor tile was in need of cleaning but was not in a deteriorated condition that might result in fiber releases. Those areas which were indicated as being in significantly damaged condition were so designated as they were lifting from the floor and were prone to breakage, or were broken over an area of 10% locally or 25% overall.
- All significantly damaged ceiling/wall tile glue daubs were considered as potential asbestos containing materials. This was done as tile glue sources sometimes changes from area to area. Damaged ceiling tiles appeared to result from either roof leaks or in the north end of Building 2 to steam from a broken pipe that had subsequently been repaired.
- It was assumed that all buildings had secondary layers of roofing under membrane roofing. Roofing was generally in good condition, which contributed greatly to the prevention of degradation of interior building materials.
- Mastic materials on the Building 2 brick chimney, the Building 2 north elevator tower and exterior pipe and duct insulation protective coatings were assumed to be asbestos containing materials.
- It was noted that nearly all piping thermal insulation that might potentially be easily disturbed, e.g. within physical reach of typical human activities, had been replaced with fiberglass insulation. Potential asbestos pipe insulation – aircell or pipes with cloth wrapping and/or hard joint insulation – was nearly all well above floor level. Some damaged piping thermal insulation was noted, and should be abated as it typically contains significant quantities of asbestos fibers.
- Other damaged potential asbestos containing materials should also either be abated or the areas should be isolated and signage provided to warn of damaged asbestos containing materials.

Observations are summarized on the attached drawings and in the attached table of significantly damaged building materials. Should you have any questions, please contact the undersigned.

Sincerely,

Osprey Environmental Engineering, LLC



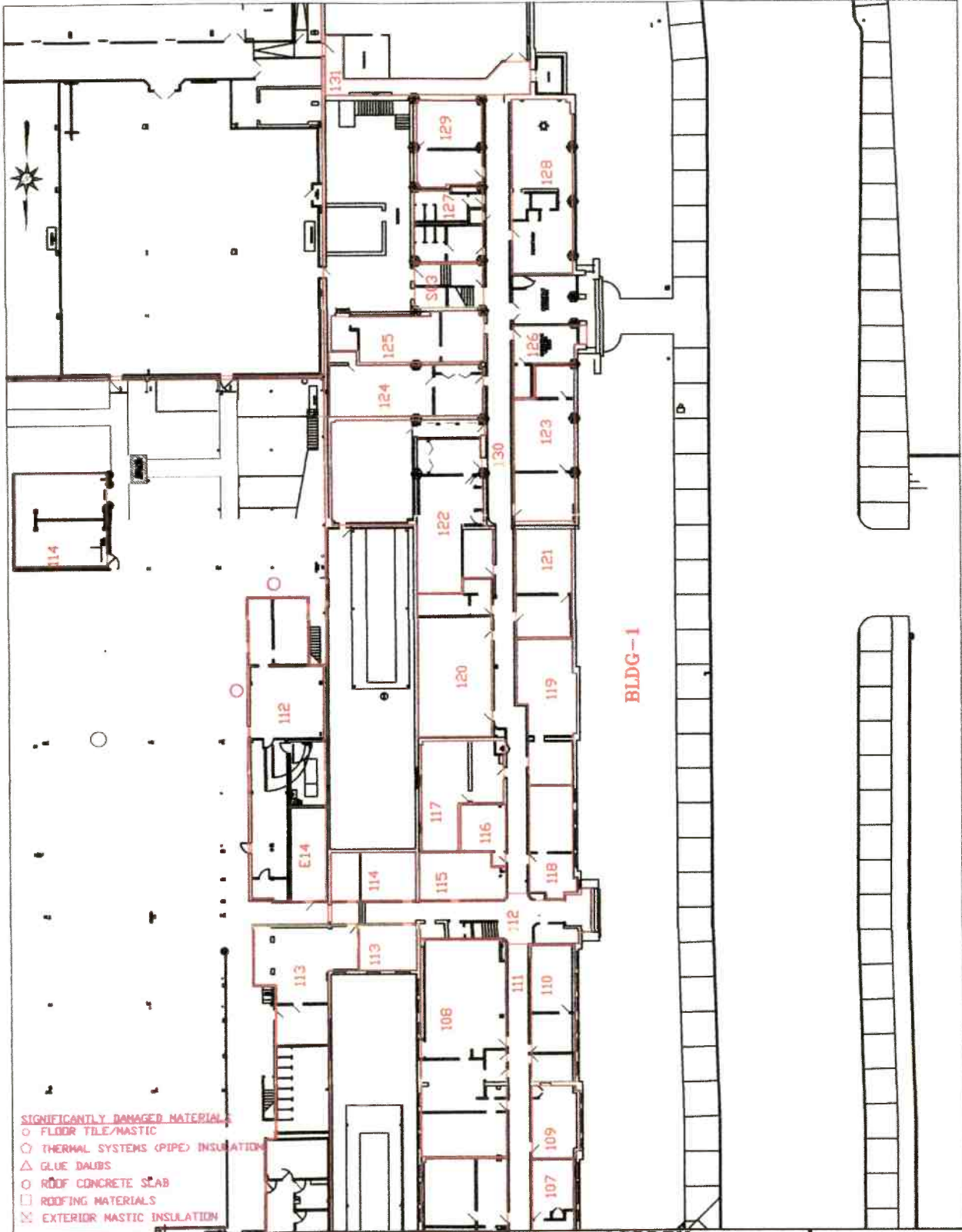
Robert Grabarek, P.E., L.S., LEP
President

STRATFORD ARMY ENGINE PLANT

MARCH 2013

ASBESTOS CONTAINING MATERIALS - VISUAL OBSERVATIONS

DRAWING	BUILDING /FLOOR	AREA	MATERIAL	ISSUE
3	1/2	216	FLOOR TILE	SIGNIFICANTLY DAMAGED
3	1/STAIRS	S02	CEILING TILE	GLUE DAUBS EXPOSED
4	1/2	213	FLOOR TILE	SIGNIFICANTLY DAMAGED
5	1/3	310	FLOOR TILE	SIGNIFICANTLY DAMAGED
5	1/ATTIC	400	DUCT INSULATION	DAMAGED, FLOOR DEBRIS
8	2/1	140	FLOOR TILE	SIGNIFICANTLY DAMAGED
8	2/1	140	CEILING TILE	GLUE DAUBS EXPOSED
8	2/1	137	FLOOR TILE	SIGNIFICANTLY DAMAGED
8	2 TOWER	ELEVATOR	METAL SIDING MASTIC	SIGNIFICANTLY DAMAGED
9	2/1	101	PIPE INSULATION	PORTION SIGNIFICANTLY DAMAGED
9	2/1	105	ROOF SLAB	SPALLING
10	2/1	106	FLOOR TILE	SIGNIFICANTLY DAMAGED
11	2/1	116	PIPE INSULATION	PORTION SIGNIFICANTLY DAMAGED
18	2/1	141	PIPE INSULATION	PORTION SIGNIFICANTLY DAMAGED
21	2 ROOF	ROOF	DUCT INSULATION	SIGNIFICANTLY DAMAGED
22	3/1	116	PIPE INSULATION	SIGNIFICANTLY DAMAGED
22	3/1	129	PIPE INSULATION	SIGNIFICANTLY DAMAGED
22	3/1	129	CEILING TILE	GLUE DAUBS EXPOSED
25	3/2	32, 47, 48, 49, 50, 51	FLOOR TILE	SIGNIFICANTLY DAMAGED
25	3/2	51	CEILING TILE	GLUE DAUBS EXPOSED
25	3/ROOF	ROOF	ASPHALT ROOFING	SIGNIFICANTLY DAMAGED
26	3/3	10, 11	WALL TILE	GLUE DAUBS EXPOSED
26	3/ATTIC	14	THERMAL INSULATION	SIGNIFICANTLY DAMAGED
28	3A/1	3-8, 10, 13	FLOOR TILE	SIGNIFICANTLY DAMAGED
28	3A/1	14	PIPE INSULATION	SIGNIFICANTLY DAMAGED
28	3 TO 3A	EXTERIOR	PIPE INSULATION	SIGNIFICANTLY DAMAGED
30	6/1	82	EXHAUST INSULATION	SIGNIFICANTLY DAMAGED
30	6/1	56	FLOOR TILE	SIGNIFICANTLY DAMAGED
31	61	ROOF	ROOFING	SIGNIFICANTLY DAMAGED
31	53	ROOF	ROOFING	SIGNIFICANTLY DAMAGED
32	6/2	101, 111-120	FLOOR TILE	SIGNIFICANTLY DAMAGED
32	6	ROOF	ROOF DUCT INSULATION	SIGNIFICANTLY DAMAGED
34	19/1	101	FLOOR TILE	SIGNIFICANTLY DAMAGED
37	16/1	62-70	FLOOR TILE	SIGNIFICANTLY DAMAGED
41	10/1	10	FLOOR TILE	SIGNIFICANTLY DAMAGED
42	2 ROOF	CHIMNEY	BRICK MASTIC	SIGNIFICANTLY DAMAGED
44	58/1	7-9	FLOOR TILE	SIGNIFICANTLY DAMAGED



- SIGNIFICANTLY DAMAGED MATERIAL**
- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊗ EXTERIOR MASTIC INSULATION

1

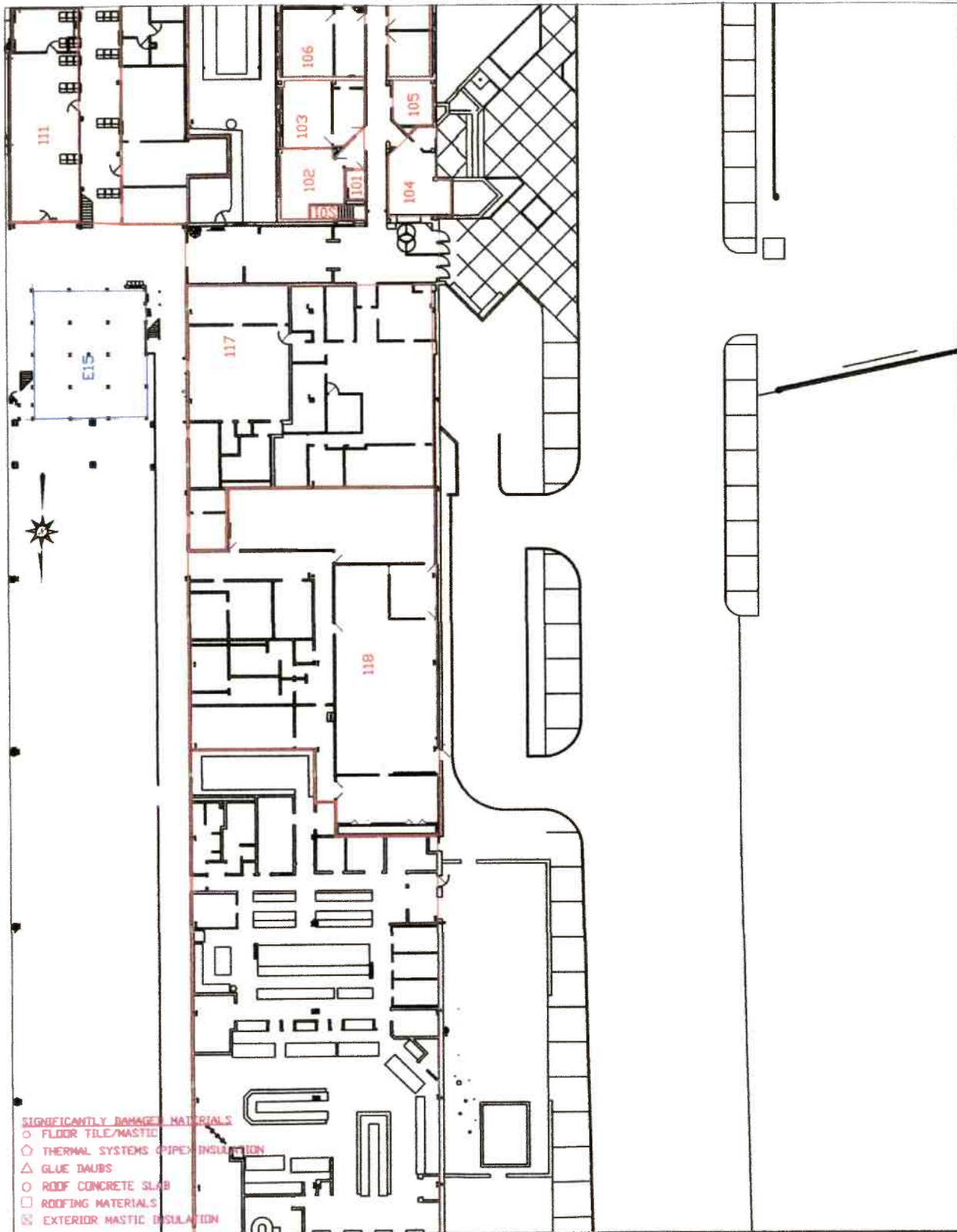
ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 1 FLOOR 1 - AREA A
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY

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SCALE: 1"=40'
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REVISIONS:



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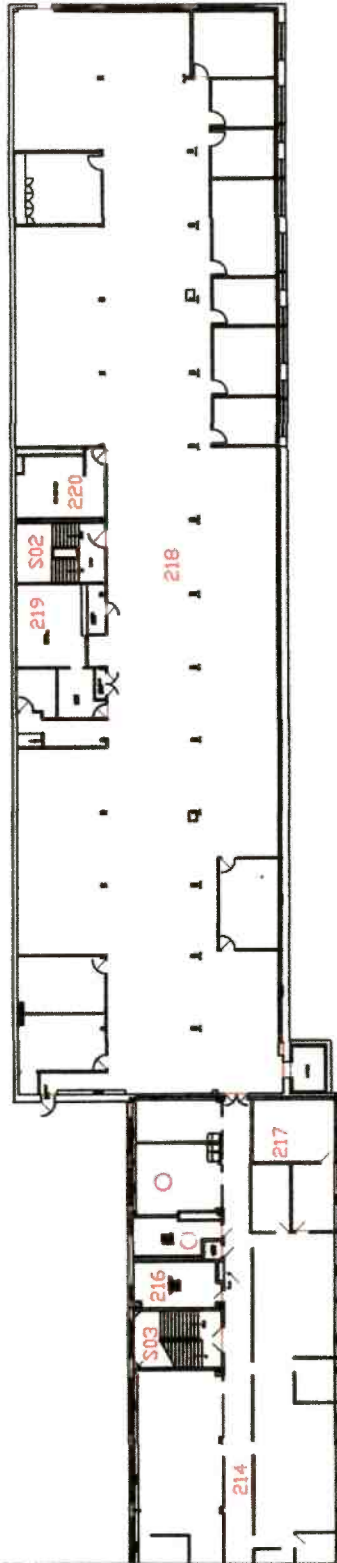
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- SIGNIFICANTLY DAMAGED MATERIALS**
- ^ FLOOR TO F/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊗ EXTERIOR MASTIC INSULATION

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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 1 FLOOR 2 - AREA A
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- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
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 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊞ EXTERIOR MASTIC INSULATION

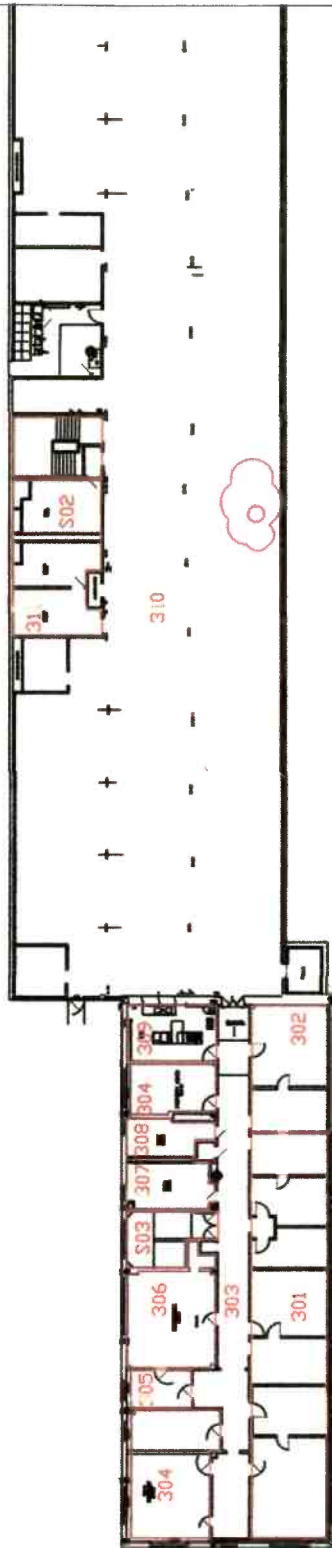
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ASBESTOS SURVEY FEBRUARY 2013
BUILDING 1 FLOOR 2 - AREA B
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ATTIC SPACE ABOVE THIRD FLOOR
SAMPLE 250-01 COLLECTED

- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ◇ ROOF CONCRETE SLAB
 - ▣ ROOFING MATERIALS
 - ⊠ EXTERIOR MASTIC INSULATION

5 ASBESTOS SURVEY FEBRUARY 2013
BUILDING 1 FLOOR 3 - AREA A
STRATFORD ARMY ENGINE PLANT
STRATFORD, CT

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**TABLE 3.1.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 1**

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
1	S01	242	Floor tiles, clay red with ridges, 12" x 12"	60	SF
1/1	102	46	Black mastic, FT Previously removed, Affected area	84	SF
1/1	102	185	Floor tiles and associated mastic, light green (pattern unknown), 9" x 9"	311	SF
1/1	102	238	Floor tiles, burgundy - pattern unknown, size unknown	311	SF
1/1	103	230	Baseboard mastic, black & brittle	14	LF
1/1	103	241	Pipe insulation, white rolled paper with raised slots, 3"OD	3	LF
1/1	103	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	213	SF
1/1	104	242	Floor tiles, clay red with ridges, 12" x 12"	299	SF
1/1	105	1	Pipe insulation and fittings, magnesium block, 6" O.D.	2	LF
1/1	105	243*	Floor tiles and associated mastic, clay red with no pattern or ridges, 12" x 12"	138	SF
1/1	106	18	Pipe insulation and fittings, Aircell, 4-6" O.D.	71	LF
1/1	107	69	Pipe insulation and fittings, eggcrate rolled paper, 4-6" O.D.	86	LF
1/1	107	242	Floor tiles, clay red with ridges, 12" x 12"	156	SF
1/1	107	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	156	SF
1/1	107	243*	Floor tiles and associated mastic, clay red with no pattern or ridges, 12" x 12"	313	SF
1/1	108	18	Pipe insulation and fittings, Aircell, 6" O.D.	25	LF
1/1	109	18	Pipe insulation and fittings, Aircell, 3-6" O.D.	56	LF
1/1	109	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	192	SF
1/1	109	243*	Floor tiles and associated mastic, clay red with no pattern or ridges, 12" x 12"	384	SF
1/1	110	18	Pipe insulation and fittings, Aircell, 6" O.D.	27	LF
1/1	110	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	360	SF
1/1	111	242	Floor tiles, clay red with ridges, 12" x 12"	842	SF
1/1	112	18	Pipe insulation and fittings, Aircell, 6" O.D.	13	LF
1/1	112	137	Pipe insulation and fittings, Aircell, 7" O.D.	6	LF
1/1	112	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	55	SF
1/1	112	242	Floor tiles, clay red with ridges, 12" x 12"	575	SF
1/1	113	18	Pipe insulation and fittings, Aircell, 6" O.D.	28	LF
1/1	113	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	30	SF
1/1	114	18	Pipe insulation and fittings, Aircell, 6" O.D.	47	LF
1/1	114	137	Pipe insulation and fittings, Aircell, 7" O.D.	2	LF
1/1	115	1	Pipe insulation and fittings, magnesium block, 4" O.D.	3	LF
1/1	115	18	Pipe insulation and fittings, Aircell, 2-6" O.D.	100	LF
1/1	116	18	Pipe insulation and fittings, Aircell, 6" O.D.	4	LF

TABLE 3.1.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 1

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
1/1	117	18	Pipe insulation and fittings, Aircell, 4-6" O.D.	140	LF
1/1	117	34	Pipe insulation and fittings, brown rolled paper, 3" O.D.	40	LF
1/1	117	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	11	SF
1/1	118	18	Pipe insulation and fittings, Aircell, 6" O.D.	21	LF
1/1	119	18	Pipe insulation and fittings, Aircell, 6" O.D.	53	LF
1/1	119	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	558	SF
1/1	120	18	Pipe insulation and fittings, Aircell, 6" O.D.	44	LF
1/1	120	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	895	SF
1/1	122	18	Pipe insulation and fittings, Aircell, 6" O.D.	50	LF
1/1	122	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	808	SF
1/1	122	244	Floor tiles and associated mastic, unknown pattern & size - assumed positive	635	SF
1/1	124	18	Pipe insulation and fittings, Aircell, 4-6" O.D.	30	LF
1/1	124	244	Floor tiles and associated mastic, dark brown with unknown pattern, 9" x 9"	638	SF
1/1	125	246	Black carpet mastic	507	SF
1/1	126	246	Black carpet mastic	229	SF
1/1	127	18	Pipe insulation and fittings, Aircell, 4" O.D.	9	LF
1/1	128	18	Pipe insulation and fittings, Aircell, 3-5" O.D.	57	LF
1/1	129	18	Pipe insulation and fittings, Aircell, 4" O.D.	50	LF
1/1	130	18	Pipe insulation and fittings, Aircell, 6" O.D.	51	LF
1/1	130	34	Pipe insulation and fittings, brown rolled paper, 5" O.D.	34	LF
1/1	130	242	Floor tiles, clay red with ridges, 12" x 12"	1,788	SF
1/1	131	18	Pipe insulation and fittings, Aircell, 5" O.D.	11	LF
1/1	131	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	187	SF
1/1	132	1	Pipe insulation and fittings, assumed positive (concealed above ceiling, estimated)	200	LF
1/1	132	18	Pipe insulation and fittings, Aircell, 3-4" O.D.	64	LF
1/1	132	53	White fabric vibration joint	5	EA
1/1	132	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	6,538	SF
1/2	201	85	Floor tiles and associated mastic, miscellaneous, 9" x 9" - assumed positive	25	SF
1/2	201	224	Floor tiles and associated mastic, plain solid burgundy, 9" x 9"	1,519	SF
1/2	201	161*	Floor tiles and associated mastic, beige w/ white + brown small streaks, 12" x 12"	30	SF
1/2	202	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	113	SF
1/2	202	224	Floor tiles and associated mastic, plain solid burgundy, 9" x 9"	113	SF
1/2	203	85	Floor tiles and associated mastic, miscellaneous, 9" x 9" - assumed positive	20	SF

TABLE 3.1.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 1

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
1/2	203	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	2,519	SF
1/2	203	303	Floor tiles and associated mastic, miscellaneous, 12" x 12" - assumed positive	47	SF
1/2	204	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	504	SF
1/2	204	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	250	SF
1/2	206	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	238	SF
1/2	206	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	120	SF
1/2	207	85	Floor tiles and associated mastic, miscellaneous, 9" x 9" - assumed positive	6	SF
1/2	207	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	306	SF
1/2	208	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	593	SF
1/2	208	230	Baseboard mastic - black, brittle	31	LF
1/2	208	303	Floor tiles and associated mastic, miscellaneous, 12" x 12" - assumed positive	30	SF
1/2	208	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	360	SF
1/2	209	69	Pipe insulation and fittings, eggcrate rolled paper, 4" O.D.	22	LF
1/2	209	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	732	SF
1/2	209	244	Floor tile and associated mastic, black, unknown size	1	SF
1/2	209	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	360	SF
1/2	210	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	757	SF
1/2	210	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	430	SF
1/2	211	69	Pipe insulation and fittings, eggcrate rolled paper, 3" O.D.	10	LF
1/2	212	85	Floor tiles and associated mastic, miscellaneous, 9" x 9" - assumed positive	177	SF
1/2	212	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	590	SF
1/2	212	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	300	SF
1/2	213	85	Floor tiles and associated mastic, miscellaneous, 9" x 9" - assumed positive	111	SF
1/2	213	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	2,515	SF
1/2	213	17M	Mastic for acoustical ceiling tiles, some linear holes, 1' x 1'	300	SF
1/2	214	18	Pipe insulation and fittings, Aircell, 4" O.D.	20	LF
1/2	214	33	Pipe insulation and fittings, white rolled paper, 3" O.D.	120	LF
1/2	214	85	Floor tiles and associated mastic, miscellaneous, 9" x 9" - assumed positive	90	SF
1/2	214	224	Floor tiles and associated mastic, plain solid burgundy, 9" x 9"	4,061	SF
1/2	215	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	154	SF
1/2	216	18	Pipe insulation and fittings, Aircell, 3-4" O.D.	17	LF
1/2	216	33	Pipe insulation and fittings, white rolled paper, 2 - 3" O.D.	10	LF
1/2	216	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	75	SF

**TABLE 3.1.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 1**

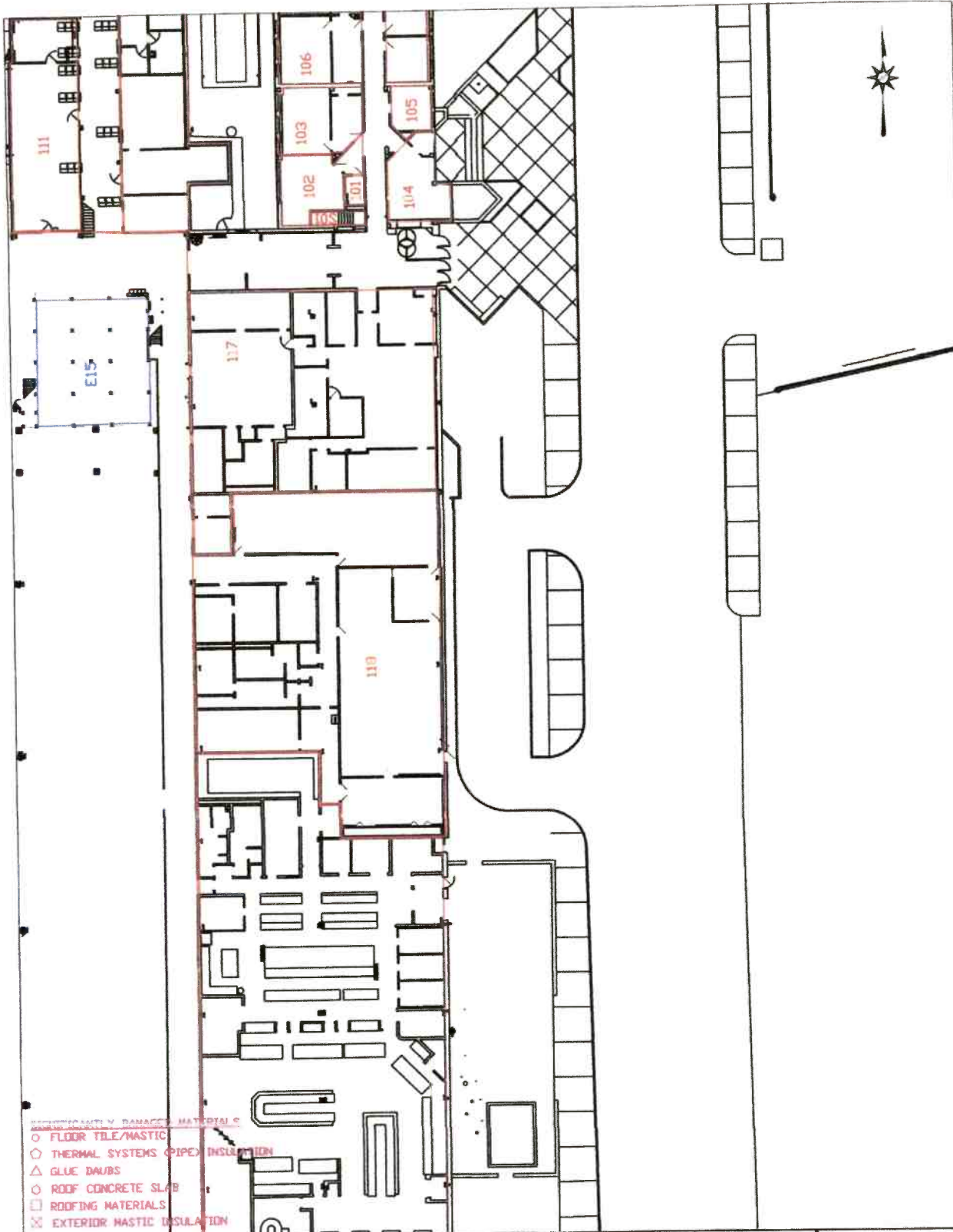
Bld/Fir	Area #	Item #	Material Description	Quantity	Units
1/2	217	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	236	SF
1/2	217	224	Floor tiles and associated mastic, plain solid burgundy, 9" x 9"	131	SF
1/2	218	Roof	Roofing material sandwiched between construction of second floor and third floor - estimated, assumed positive	20,000	SF
1/3	305	252 ^A	Floor tiles and associated mastic, clay w/ white streaks, 9" x 9"	116	SF
1/3	310	1	Pipe insulation and fittings, magnesium block, 5" O.D.	143	LF
1/3	310	112 ^A	All Floor tiles and associated mastic, floor tiles under carpet	11,100	SF
1/Attic	400	18	Pipe insulation and fittings, Aircell, 6" O.D.	25	LF
1/Attic	400	250	Aircell layered over HVAC system	150	SF
1/Attic	400	302	Debris, area affected by pieces of aircell insulation	130	SF
1	---	FD	Fire Doors	50	EA
1	---	Roof	Roofing material	40,000	SF
1	---	WC	Window caulking	4,000	LF

Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

(A) Multiple layers floor tile have been found in the specified area. Since one or more layers of floor tile or mastic were determined to be positive by PLM, the entire effected floor area has been included as ACM.

* PLM results for floor tile are negative, however, since mastic is positive and separation of these two materials is not feasible, floor tile has been included as ACM.



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 BUILDING 2 FLOOR 1 - AREA C
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- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - ◇ THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ▭ ROOFING MATERIALS
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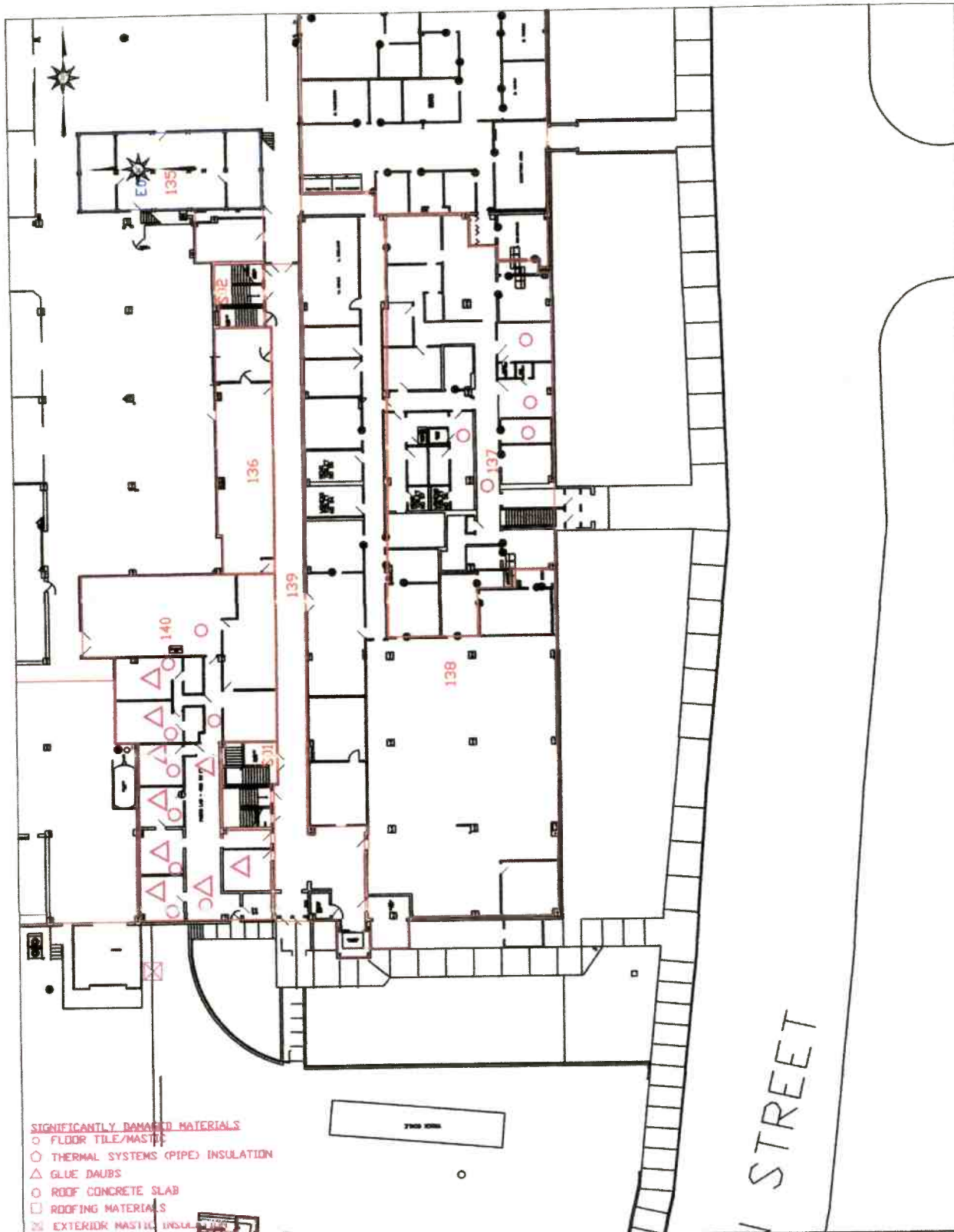
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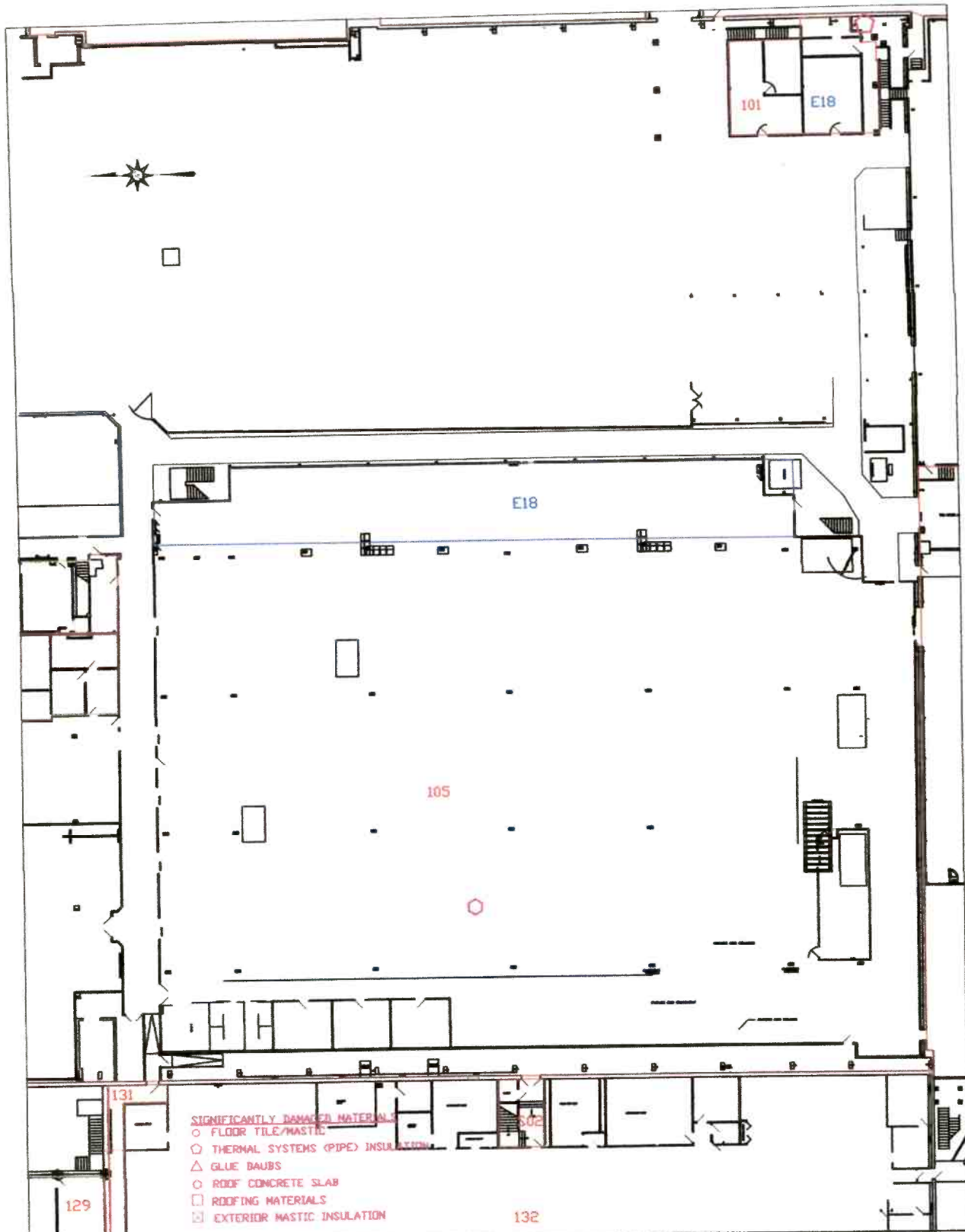
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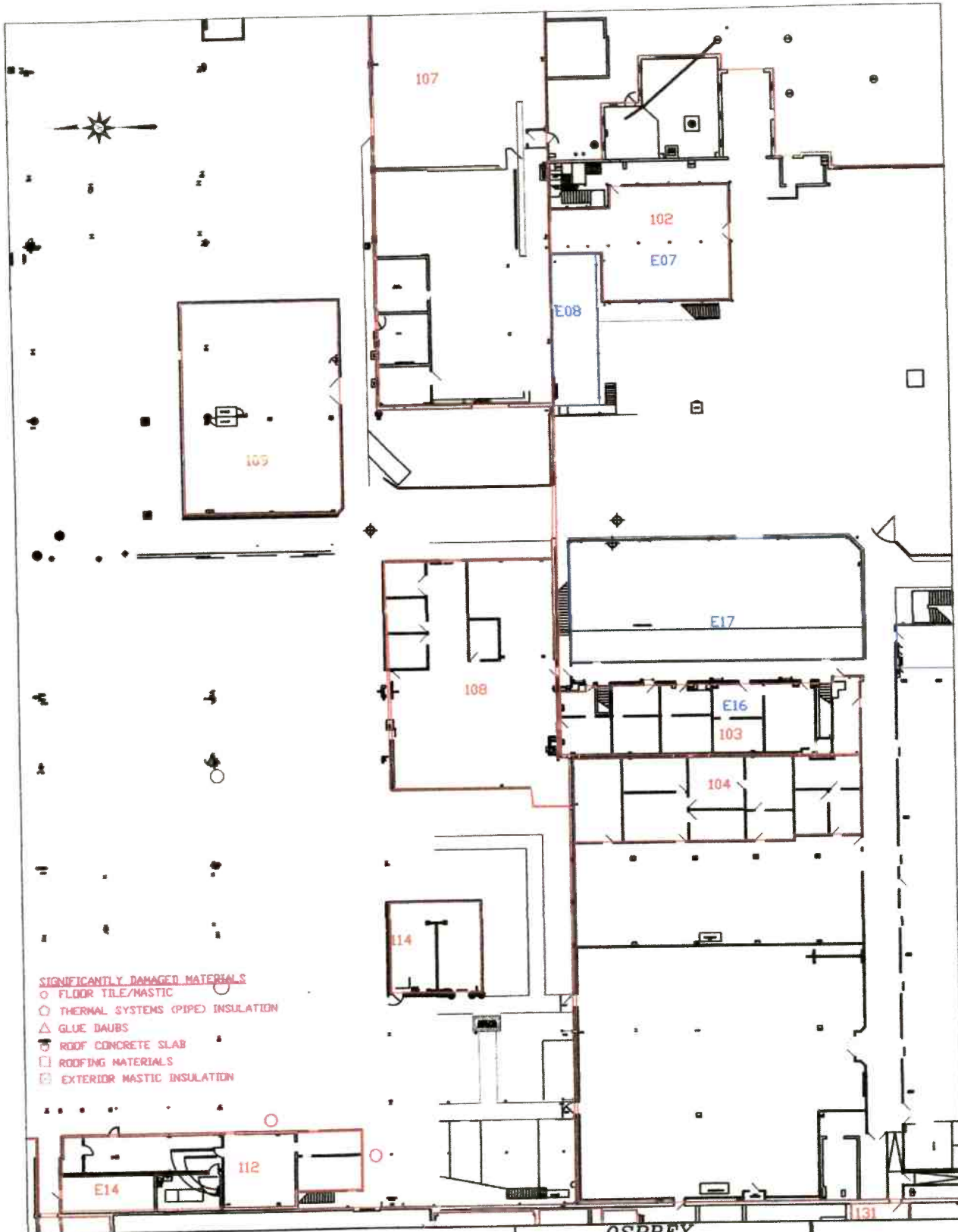
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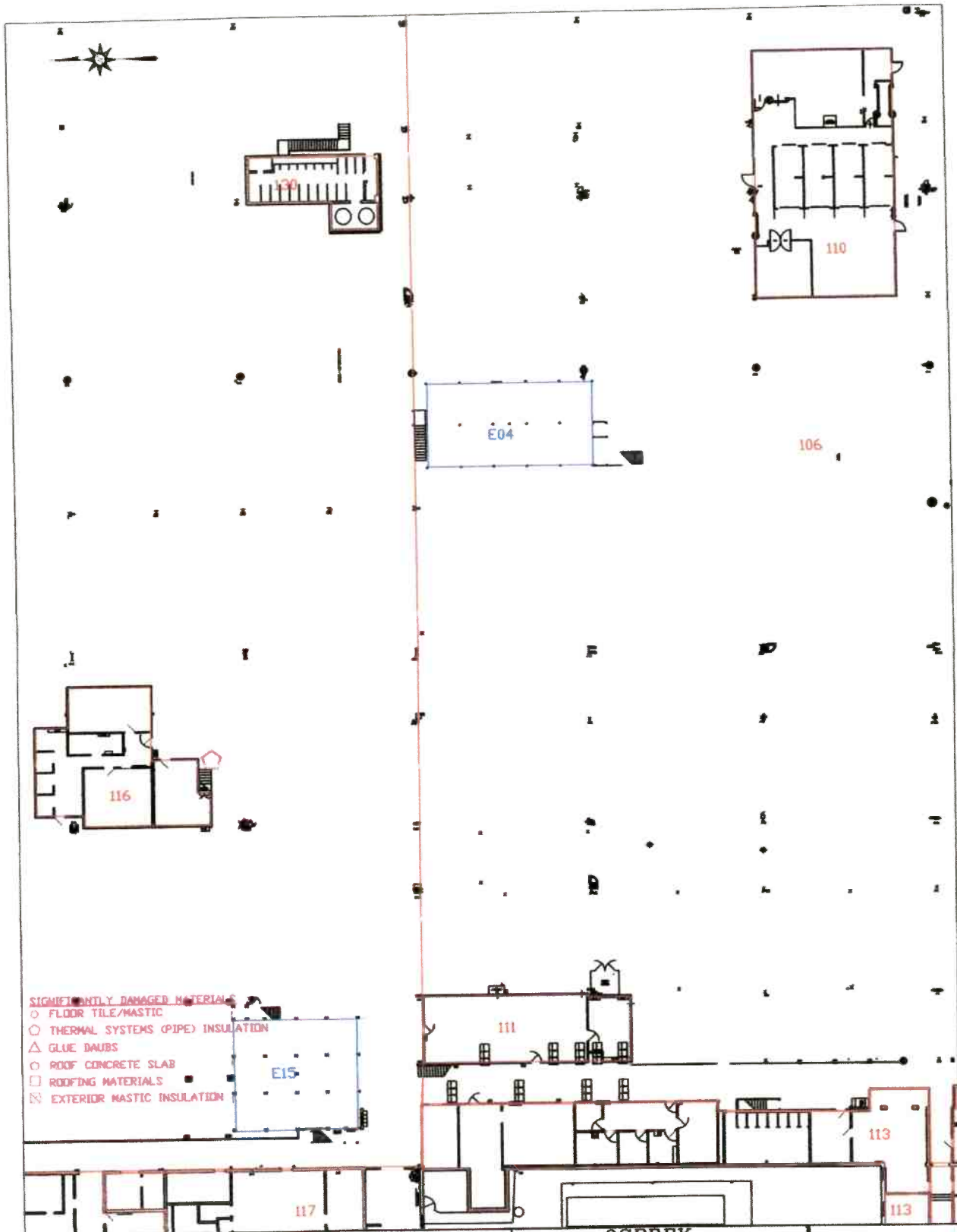
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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 2 FLOOR 1 - AREA E
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
 ENVIRONMENTAL ENGINEERING, LLC
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 Phone (860) 669-8651
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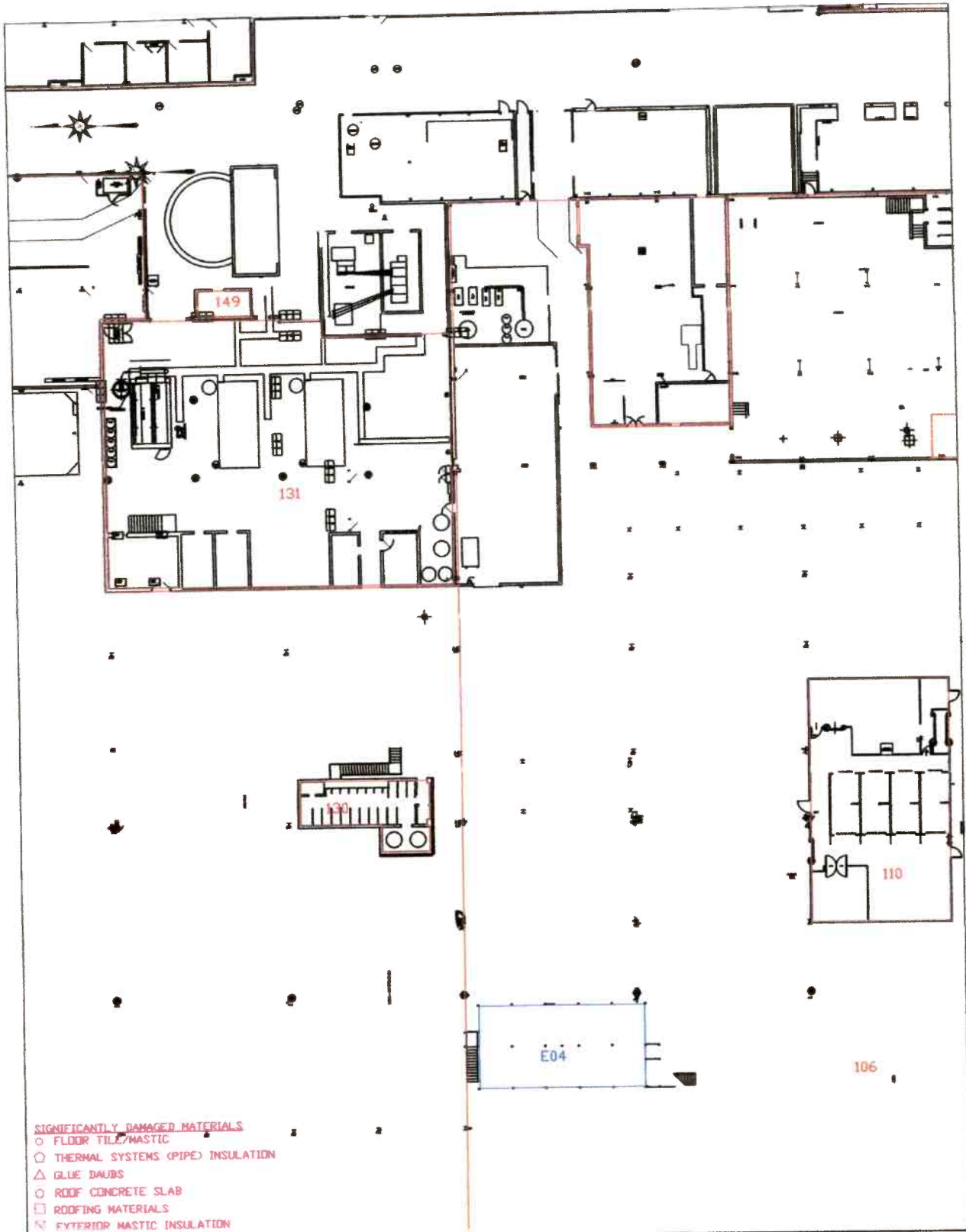
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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 2 FLOOR 1 - AREA F
 STRATFORD ARMY ENGINE PLANT
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- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ▽ EXTERIOR MASTIC INSULATION

12	ASBESTOS SURVEY FEBRUARY 2013 BUILDING 2 FLOOR 1 - AREA G STRATFORD ARMY ENGINE PLANT STRATFORD, CT	OSPREY ENVIRONMENTAL ENGINEERING, LLC 146 East Main Street Clinton, CT 06413 Phone (860) 669-8651 Fax (860) 664-3751	DRAWN BY: R.J.G. SCALE: 1"=40' DATE: 02.12.13 REVISIONS:
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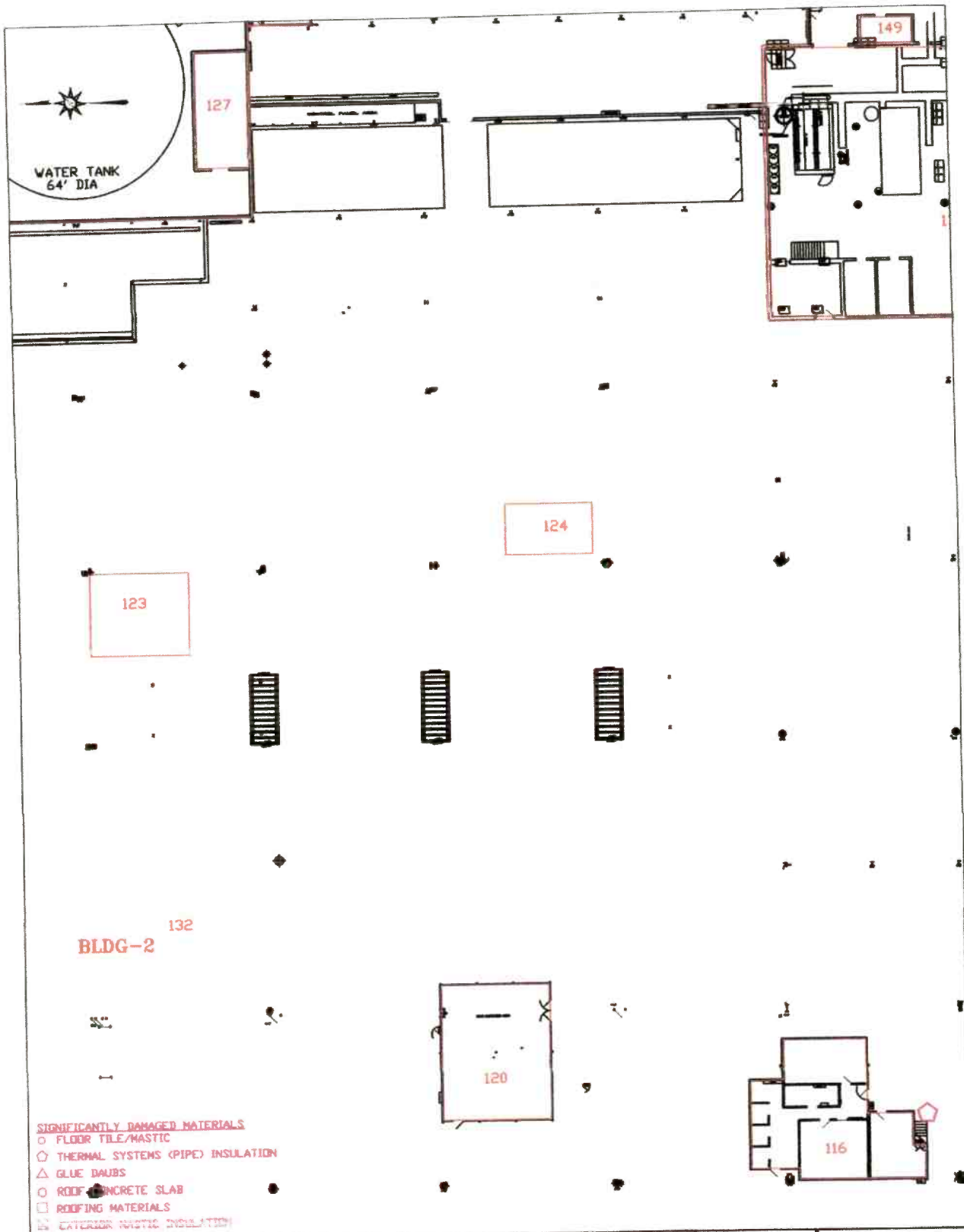
- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊠ EXTERIOR MASTIC INSULATION

12 ASBESTOS SURVEY FEBRUARY 2013
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- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - ◇ THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ▨ EXTERIOR MASTIC INSULATION

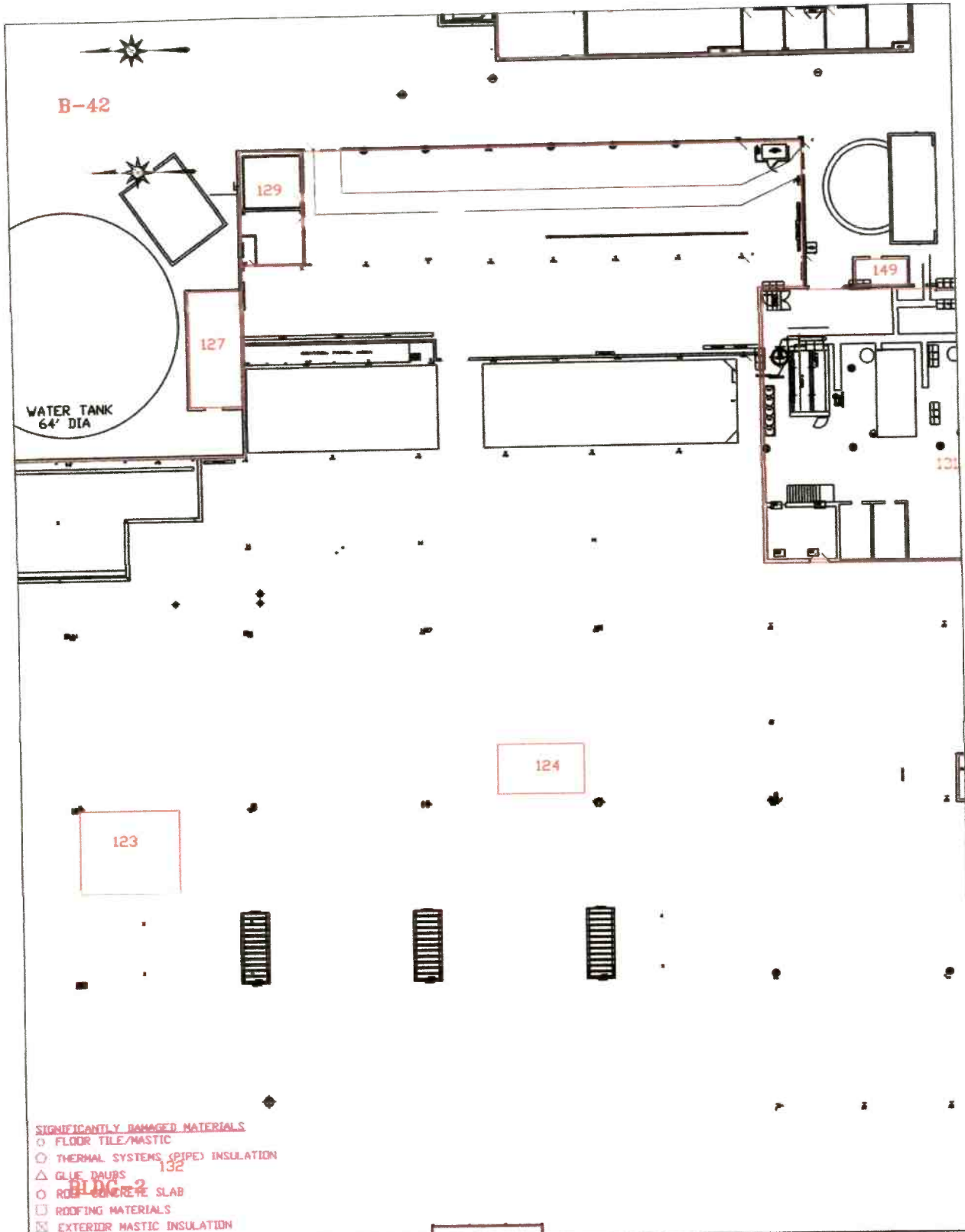
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- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ☒ EXTERIOR MASTIC INSULATION

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- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
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 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊗ EXTERIOR MASTIC INSULATION

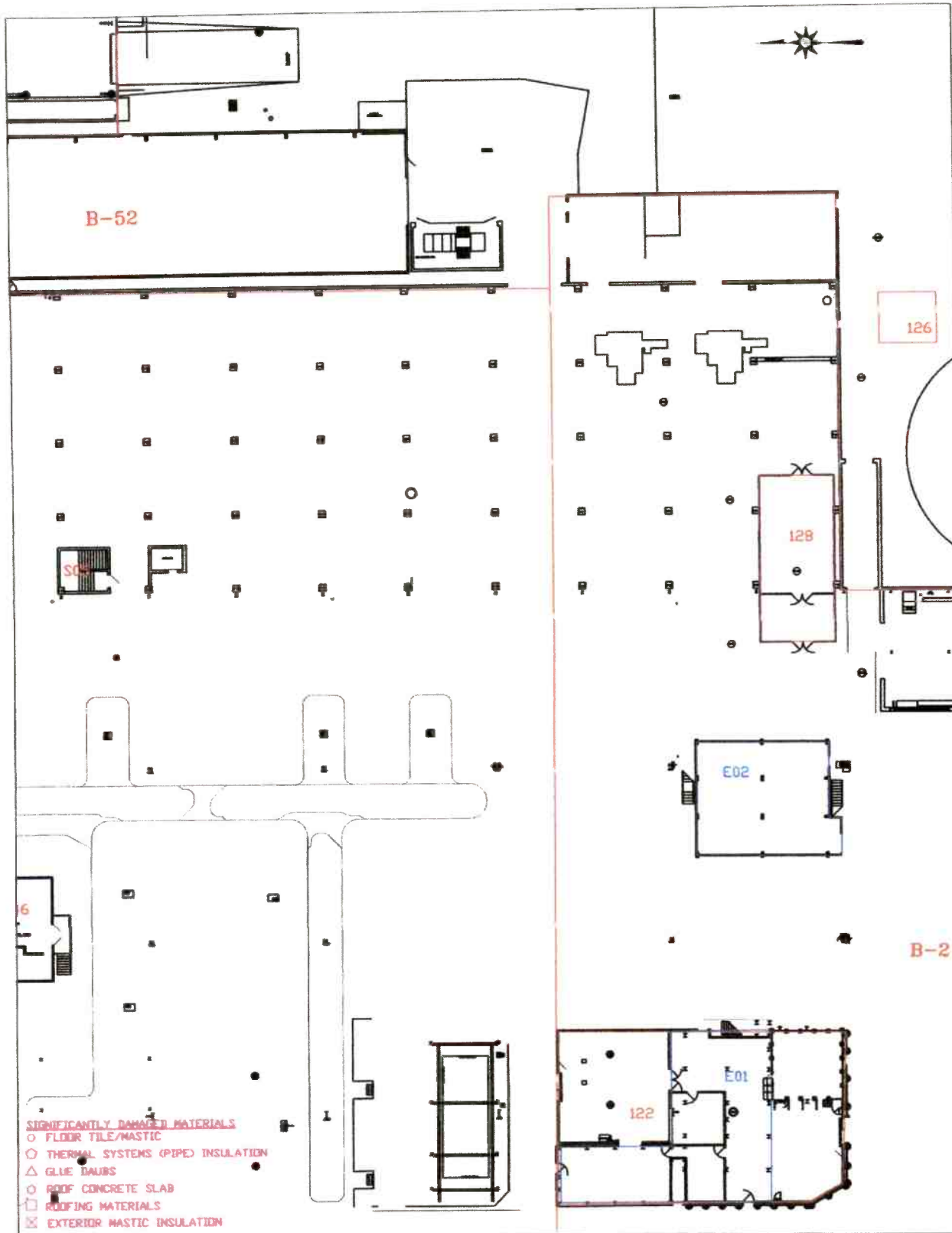
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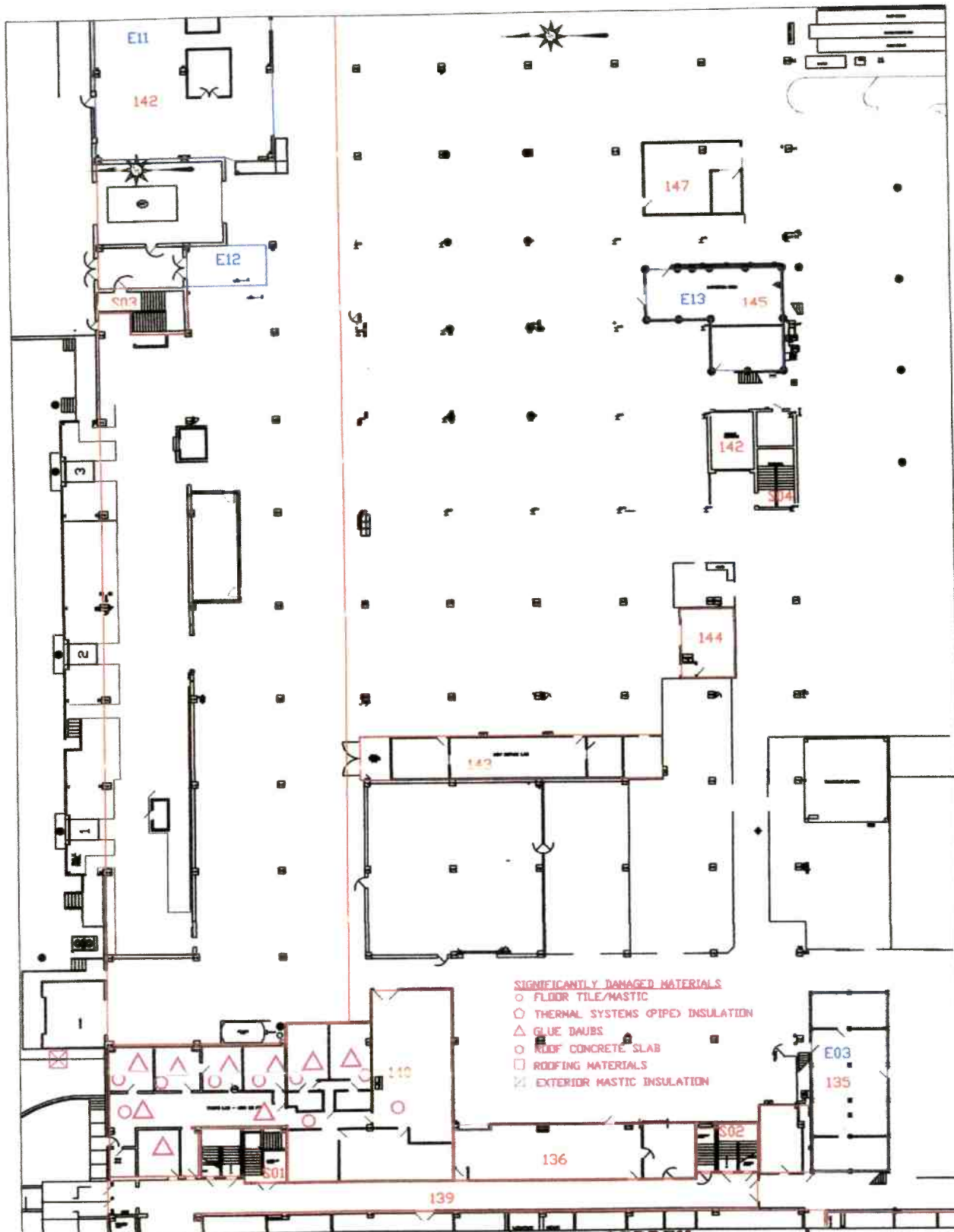
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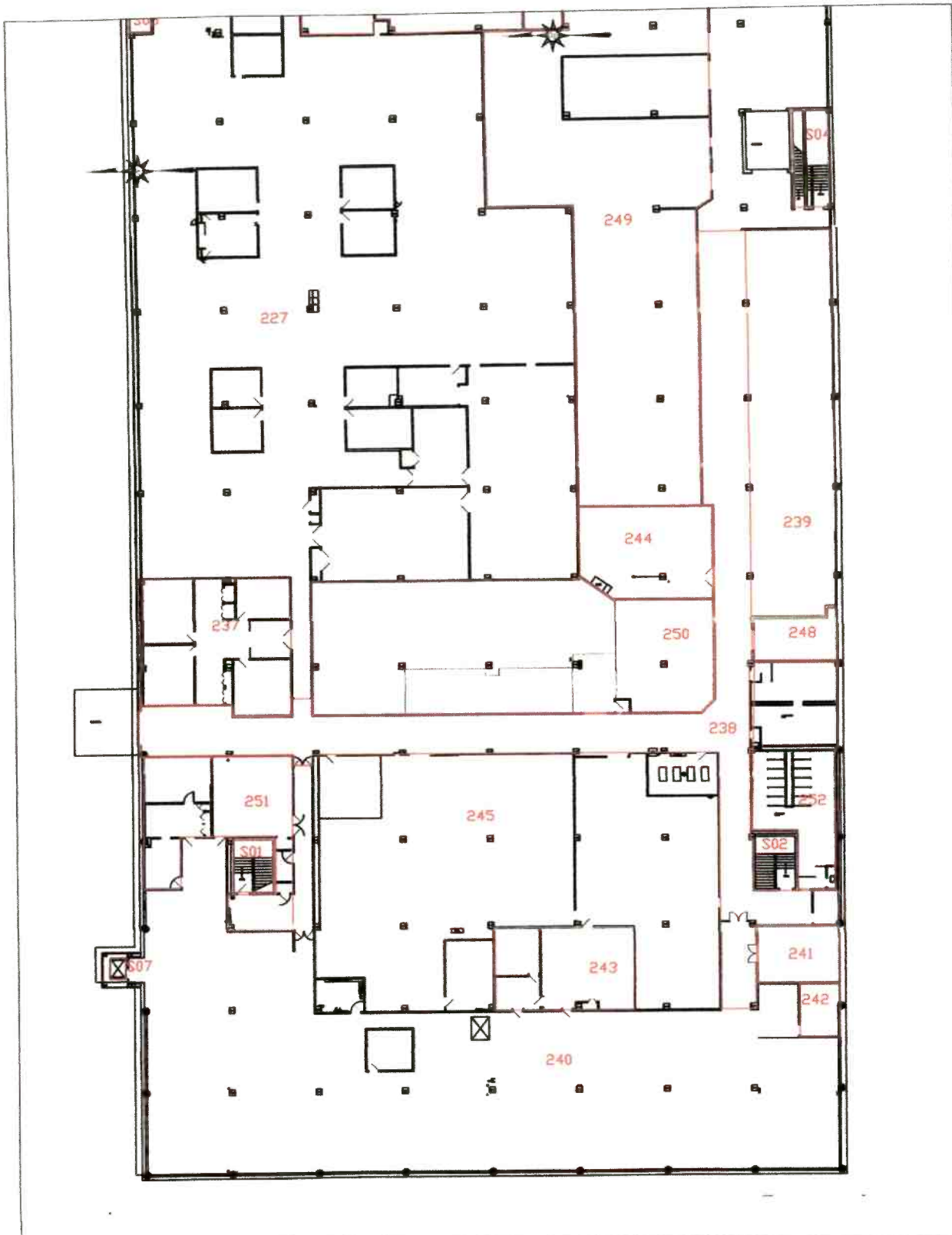
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 BUILDING 2 FLOOR 1 - AREA L
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 STRATFORD, CT

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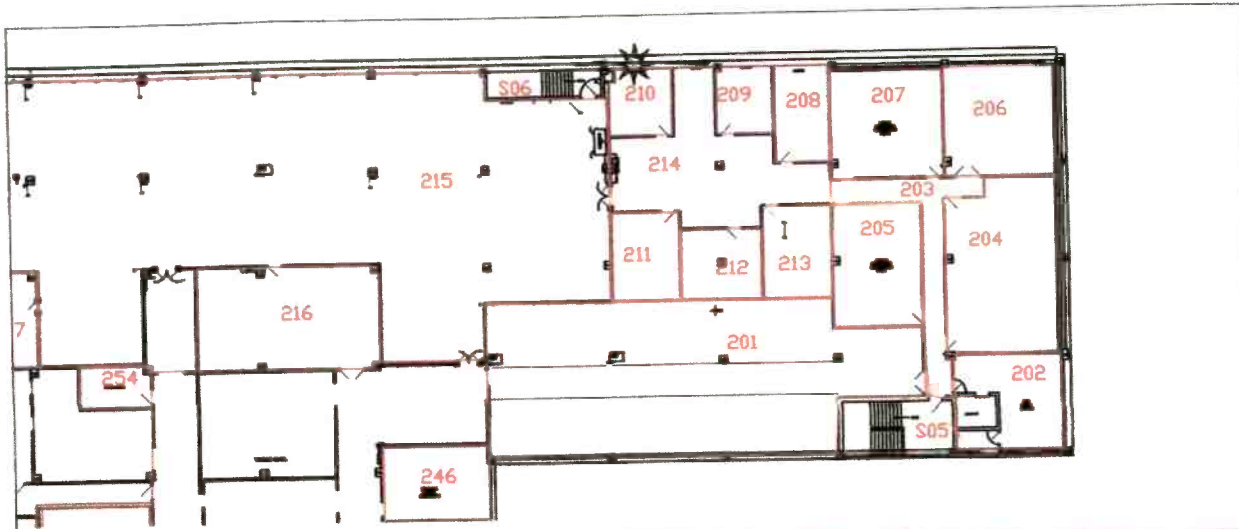
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 BUILDING 2 FLOOR 2 - AREA A
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 BUILDING 2 FLOOR 2 - AREA B
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

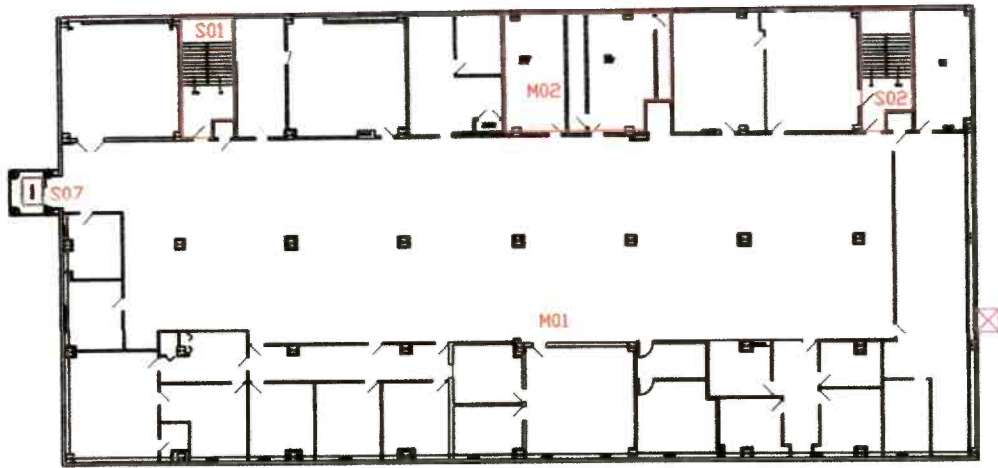
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 SCALE: 1"=40'
 DATE: 02.12.13
 REVISIONS:



- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊗ EXTERIOR MASTIC INSULATION



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ASBESTOS SURVEY FEBRUARY 2013
BUILDING 2 MEZZANINE
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STRATFORD, CT

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SCALE: 1"=40'
DATE: 02.12.13
REVISIONS:

**TABLE 3.2.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 2**

Bld/Flr	Area #	Area Description	Item #	Material Description	Quantity	Units
2	S03	Stairwell	18	Pipe insulation and fittings, Aircell, 3-6" O.D.	35	LF
2	S05	Stairwell	1	Pipe insulation and fittings, magnesium block, 5" O.D.	15	LF
2/1	103	Offices	5	Pipe fitting insulation, magnesium block, 2-4" O.D.	3	EA
2/1	103	Offices	34	Pipe insulation and fittings, brown rolled paper, 2-4" O.D.	5	LF
2/1	104	Offices	34	Pipe insulation and fittings, brown rolled paper, 2-6" O.D.	153	LF
2/1	105	Work Area	18	Pipe insulation and fittings, Aircell, 4" O.D.	3,250	LF
2/1	105	Work Area	137	Pipe insulation and fittings, Aircell, 8" O.D.	10	LF
2/1	105	Work Area	34	Pipe insulation and fittings, brown rolled paper, 4" O.D.	325	LF
2/1	105	Work Area	1	Pipe insulation and fittings, magnesium block, 6" O.D.	250	LF
2/1	106	Work Area	244	Floor tiles, unknown texture, 9" x 9"	2,667	SF
2/1	106	Work Area	5	Pipe fitting insulation, magnesium block, 2" O.D.	18	EA
2/1	106	Work Area	90	Pipe insulation and fittings, location inaccessible, 14" O.D. - assumed positive	500	LF
2/1	106	Work Area	90	Pipe insulation and fittings, location inaccessible, 2-6" O.D. - assumed positive	1,074	LF
2/1	106	Work Area	90	Pipe insulation and fittings, location inaccessible, 8-10" O.D. - assumed positive	215	LF
2/1	106	Work Area	Roof	Residual roofing material on the balcony of the work area	200	SF
2/1	106	Work Area	Flash	Roof flashing left on the balcony of the work area	1,080	SF
2/1	107	Work Area	176	Floor tiles and associated mastic, beige w/ white + brown chunks, 12" x 12"	625	SF
2/1	107	Work Area	90	Pipe insulation and fittings, location inaccessible, 16" O.D. - assumed positive	48	LF
2/1	107	Work Area	90	Pipe insulation and fittings, location inaccessible, 6" O.D. - assumed positive	45	LF
2/1	107	Work Area	90	Pipe insulation and fittings, location inaccessible, 8" O.D. - assumed positive	120	LF
2/1	109	Work Area	90	Pipe insulation and fittings, location inaccessible, 4" O.D. - assumed positive	47	LF
2/1	111	Work Area	90	Pipe insulation and fittings, location inaccessible, 3" O.D. - assumed positive	63	LF
2/1	112	Work Offices	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	281	SF
2/1	112	Work Offices	202	Transite electrical board	20	SF
2/1	112	Work Offices	32	Transite wall board	238	SF
2/1	113	Work Offices	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	705	SF
2/1	113	Work Offices	5	Pipe fitting insulation, magnesium block, 2" O.D.	1	EA
2/1	113	Work Offices	11	Pipe insulation and fittings, magnesium block, 18" O.D.	9	LF
2/1	113	Work Offices	1	Pipe insulation and fittings, magnesium block, 3" O.D.	3	LF
2/1	113	Work Offices	56	Plaster walls & ceiling	4,900	SF
2/1	115	Work Area	90	Pipe insulation and fittings, location inaccessible, 4-5" O.D. - assumed positive	73	LF
2/1	115	Work Area	1	Pipe insulation and fittings, magnesium block, 3" O.D.	40	LF
2/1	116	Work Offices	124*	Floor tiles and associated mastic, light green w/ white + olive chips, 12" x 12"	157	SF

TABLE 3.2.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 2

Bld/Fir	Area #	Area Description	Item #	Material Description	Quantity	Units
2/1	116	Work Offices	5	Pipe fitting insulation, magnesium block, 2" O.D.	16	EA
2/1	117	Offices/Security	58	Floor tiles and associated mastic, tan w/brown & white streaks, 9" x 9"	300	SF
2/1	117	Offices/Security	18	Pipe insulation and fittings, Aircell, 6" O.D.	76	LF
2/1	117	Offices/Security	34	Pipe insulation and fittings, brown rolled paper, 4-6" O.D.	47	LF
2/1	118	Offices/Storage	244*	Floor tiles and associated mastic, appears as off-white with streaks, 12" x 12"	2,100	SF
2/1	118	Offices/Storage	258	Floor tiles and associated mastic, green w/ black & white streaks, 9" x 9"	180	SF
2/1	118	Offices/Storage	244	Floor tiles, appears as dark gray with b+w blotches, 9" x 9"	1,700	SF
2/1	118	Offices/Storage	5	Pipe fitting insulation, magnesium block, 2.5" O.D.	5	EA
2/1	118	Offices/Storage	5	Pipe fitting insulation, magnesium block, 2.5" O.D.	7	EA
2/1	118	Offices/Storage	18	Pipe insulation and fittings, Aircell, 3-6" O.D.	100	LF
2/1	118	Offices/Storage	34	Pipe insulation and fittings, brown rolled paper, 3" O.D.	30	LF
2/1	125		178	Floor tiles and associated mastic, black w/ brown streaks, 12" x 12"	156	SF
2/1	129	Work Area	188	Floor tiles, cream w/ linear brown streaks, 12" x 12"	14	SF
2/1	129	Work Area	18	Pipe insulation and fittings, Aircell, 3-6" O.D.	37	LF
2/1	130	Bathroom	18	Pipe insulation and fittings, Aircell, 2" O.D.	20	LF
2/1	131	Boiler Room	122	Floor tiles and associated mastic, light gray w/ black & white streaks, 9" x 9"	158	SF
2/1	132	Open work area	90	Pipe fittings on fiberglass lines, location inaccessible, 2-6" O.D. - assumed positive	8	EA
2/1	132	Open work area	18	Pipe insulation and fittings, Aircell, 2" O.D.	108	LF
2/1	132	Open work area	90	Pipe insulation and fittings, location inaccessible, 18" O.D. - assumed positive	363	LF
2/1	132	Open work area	90	Pipe insulation and fittings, location inaccessible, 2-6" O.D. - assumed positive	5,352	LF
2/1	132	Open work area	90	Pipe insulation and fittings, location inaccessible, 7-8" O.D. - assumed positive	1,476	LF
2/1	132	Open work area	189	Tar coating over metal wall	250	SF
2/1	133	Office/Storage	262**	Floor tiles and associated mastic, dull gray w/ white+black small specks, 9" x 9"	688	SF
2/1	133	Office/Storage	255*	Floor tiles and associated mastic, white w/ black & gray small short streaks, 9" x 9"	2,654	SF
2/1	133	Office/Storage	263**	Floor tiles and associated mastic, yellow & gray heterogeneous horizontal mix, 9" x 9"	688	SF
2/1	133	Office/Storage	5	Pipe fitting insulation, magnesium block, 2-3" O.D.	49	EA
2/1	133	Office/Storage	18	Pipe insulation and fittings, Aircell, 4" O.D.	127	LF
2/1	133	Office/Storage	34	Pipe insulation and fittings, brown rolled paper, 3" O.D.	192	LF
2/1	133	Office/Storage	1	Pipe insulation and fittings, magnesium block, 4" O.D.	27	LF
2/1	134	Executive Offices	18	Pipe insulation and fittings, Aircell, 2-3" O.D.	65	LF
2/1	134	Executive Offices	34	Pipe insulation and fittings, brown rolled paper, 4" O.D.	45	LF
2/1	135	Work Offices	176	Floor tiles and associated mastic, beige w/ white + brown chunks, 12" x 12"	1,133	SF
2/1	135	Work Offices	18	Pipe insulation and fittings, Aircell, 4" O.D.	12	LF
2/1	136	Office Area	185	Floor tiles and associated mastic, light green with unknown pattern, 9" x 9"	1,120	SF

**TABLE 3.2.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 2**

Bld/Flr	Area #	Area Description	Item #	Material Description	Quantity	Units
2/1	136	Office Area	18	Pipe insulation and fittings, Aircell, 2-6" O.D.	20	LF
2/1	137	Nurse's Area	140	Floor tiles and associated mastic, green w/ white streaks, 9" x 9" - assumed +	3	SF
2/1	137	Nurse's Area	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	250	SF
2/1	137	Nurse's Area	58	Floor tiles and associated mastic, tan w/brown & white streaks, 9" x 9"	27	SF
2/1	137	Nurse's Area	256	Floor tiles and associated mastic, white w/ olive green streaks, 9" x 9" - assumed +	18	SF
2/1	137	Nurse's Area	41	Floor tiles, black w/ white streaks, 9" x 9"	40	SF
2/1	137	Nurse's Area	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	4,114	SF
2/1	137	Nurse's Area	5	Pipe fitting insulation, magnesium block, 2-3" O.D.	20	EA
2/1	137	Nurse's Area	18	Pipe insulation and fittings, Aircell, 4" O.D.	50	LF
2/1	137	Nurse's Area	34	Pipe insulation and fittings, brown rolled paper, 2-6" O.D.	170	LF
2/1	138	Offices	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	88	SF
2/1	138	Offices	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	2,533	SF
2/1	138	Offices	5	Pipe fitting insulation, magnesium block, 2" O.D.	14	EA
2/1	139	Hallway	7	Pipe fitting insulation, magnesium block, 18" O.D.	18	SF
2/1	139	Hallway	5	Pipe fitting insulation, magnesium block, 2-6" O.D.	14	EA
2/1	139	Hallway	18	Pipe insulation and fittings, Aircell, 4" O.D.	10	LF
2/1	139	Hallway	34	Pipe insulation and fittings, brown rolled paper, 2-6" O.D.	37	LF
2/1	139	Hallway	138	Pipe insulation and fittings, brown rolled paper, 7-8" O.D.	19	LF
2/1	140	Offices	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	488	SF
2/1	140	Offices	41	Floor tiles, black w/ white streaks, 9" x 9"	272	SF
2/1	140	Offices	45	Floor tiles, dark gray w/ black & white streaks, 9" x 9"	2,415	SF
2/1	140	Offices	34	Pipe insulation and fittings, brown rolled paper, 2-6" O.D.	160	LF
2/1	140	Offices	138	Pipe insulation and fittings, brown rolled paper, 7-8" O.D.	187	LF
2/1	140	Offices	1	Pipe insulation and fittings, magnesium block, 4" O.D.	6	LF
2/1	141	Open Work Area	90	Pipe insulation and fittings, location inaccessible, 18" O.D. - assumed positive	220	LF
2/1	141	Open Work Area	90	Pipe insulation and fittings, location inaccessible, 2-6" O.D. - assumed positive	4,100	LF
2/1	141	Open Work Area	90	Pipe insulation and fittings, location inaccessible, 7-8" O.D. - assumed positive	1,100	LF
2/1	141	Open Work Area	1	Pipe insulation and fittings, magnesium block, 4" O.D.	10	LF
2/1	142	Open Work Area	181	Floor tiles and associated mastic, tan w/ white blotches, 12" x 12" - assumed pos.	400	SF
2/1	142	Open Work Area	2	Magnesium block insulation on hot water tank	475	SF
2/1	142	Open Work Area	18	Pipe insulation and fittings, Aircell, 3-6" O.D.	95	LF
2/1	142	Open Work Area	69	Pipe insulation and fittings, eggcrate, 5" O.D.	60	LF
2/1	142	Open Work Area	90	Pipe insulation and fittings, location inaccessible, 5-6" O.D. - assumed positive	220	LF
2/1	142	Open Work Area	90	Pipe insulation and fittings, location inaccessible, 9" O.D. - assumed positive	33	LF

TABLE 3.2.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 2

Bld/Fir	Area #	Area Description	Item #	Material Description	Quantity	Units
2/1	142	Open Work Area	53	Vibration joint, inaccessible location - assumed positive	3	EA
2/1	143	Repair Lab	185	Floor tiles and associated mastic, light green w/ unknown pattern , 9" x 9"	678	SF
2/1	143	Repair Lab	184	Floor tiles and associated mastic, sea foam green w/ blotches, 12" x 12"	65	SF
2/1	146	Control Room	210	Linoleum and associated mastic gray, brown, & white conglomerate pattern	645	SF
2/1	149	Storage	180	Transite roof, ridged	100	SF
2/1-Elev	E02	levated bathroom	216	Gray troweled coating on steps	66	SF
2/1-Elev	E03	Elevated office	176	Floor tiles and associated mastic, beige w/ white + brown chunks, 12" x 12"	1,133	SF
2/1-Elev	E04	Elevated office	176	Floor tiles and associated mastic, beige w/ white + brown chunks, 12" x 12"	1,134	SF
2/1-Elev	E05	levated bathroom	216	Gray troweled coating on steps	66	SF
2/1-Elev	E10	levated bathroom	18	Pipe insulation and fittings, Aircell, 4" O.D.	27	LF
2/1-Elev	E10	levated bathroom	34	Pipe insulation and fittings, brown rolled paper, 2-5" O.D.	40	LF
2/1-Elev	E10	levated bathroom	129	Thin treatment on concrete stairway	93	SF
2/1-Elev	E11	Elevated office	33	Pipe insulation and fittings, white rolled paper, 3-6" O.D.	60	LF
2/1-Elev	E12	Elevated office	176	Floor tiles and associated mastic, beige w/ white + brown chunks, 12" x 12"	325	SF
2/1-Elev	E14	Elevated office	5	Pipe fitting insulation, magnesium block, 2-6" O.D.	6	EA
2/1-Elev	E14	Elevated office	33	Pipe insulation and fittings, white rolled paper, 4" O.D.	71	LF
2/1-Elev	E14	Elevated office	53	White fabric vibration joint - assumed positive	10	EA
2/Mezz	M01	Office Area	244	Floor tiles and associated mastic, light green with unknown texture, unknown size	5,000	SF
2/Mezz	M01	Office Area	33	Pipe insulation and fittings, white rolled paper, 2-5" O.D.	230	LF
2/2	201	Open work area	5	Pipe fitting insulation, magnesium block, 2-6" O.D.	8	EA
2/2	201	Open work area	18	Pipe insulation and fittings, Aircell, 3" O.D.	44	LF
2/2	201	Open work area	1	Pipe insulation and fittings, magnesium block, 3" O.D.	44	LF
2/2	202	376 Union Office	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	424	SF
2/2	203	Hallway	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	380	SF
2/2	203	Hallway	5	Pipe fitting insulation, magnesium block, 3" O.D.	3	EA
2/2	203	Hallway	18	Pipe insulation and fittings, Aircell, 3" O.D.	47	LF
2/2	203	Hallway	1	Pipe insulation and fittings, magnesium block, 3" O.D.	53	LF
2/2	204	Office	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	914	SF
2/2	205	HR Conf Rm	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	507	SF
2/2	206	Office	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	576	SF
2/2	207	Office	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	564	SF
2/2	207	Office	18	Pipe insulation and fittings, Aircell, 3" O.D.	18	LF
2/2	207	Office	1	Pipe insulation and fittings, magnesium block, 3" O.D.	17	LF
2/2	208	Office	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	246	SF

**TABLE 3.2.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 2**

Bid/Fir	Area #	Area Description	Item #	Material Description	Quantity	Units
2/2	209	Office	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	168	SF
2/2	211	Office	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	281	SF
2/2	212	Office	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	263	SF
2/2	213	Office	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	300	SF
2/2	214	Open Area/Hallway	150*	Floor tiles and associated mastic, black and dark brown chips, 12" x 12"	867	SF
2/2	215	Open Area/Hallway	79M	Floor tile mastic, under beige w/brown streaks + blotches, 12" x 12"	1,223	SF
2/2	215	Open Area/Hallway	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	7,609	SF
2/2	216	Storage Room	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	869	SF
2/2	217	Office	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	246	SF
2/2	218	Office	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	256	SF
2/2	219	Office	85	Floor tiles and associated mastic, miscellaneous 9" x 9" - assumed positive	200	SF
2/2	220	Office	85	Floor tiles and associated mastic, miscellaneous 9" x 9" - assumed positive	160	SF
2/2	221	Office	85	Floor tiles and associated mastic, miscellaneous 9" x 9" - assumed positive	255	SF
2/2	222	Office	85	Floor tiles and associated mastic, miscellaneous 9" x 9" - assumed positive	204	SF
2/2	223	Open Office Area	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	4,400	SF
2/2	224	Workbench Area	92*	Floor tiles and associated mastic, sky blue w/ small white streaks, 12" x 12"	20	SF
2/2	224	Workbench Area	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	2,470	SF
2/2	224	Workbench Area	85	Floor tiles and associated mastic, miscellaneous 9" x 9" - assumed positive	175	SF
2/2	225	Blueprint Records	307 ^A	All Floor tiles and associated mastic, #154 can be found on top of #107	735	SF
2/2	226	Comp Room	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	714	SF
2/2	227	Entire Office Area	62	Floor tiles and associated mastic, beige w/ brown streaks, 9" x 9"	23,149	SF
2/2	230	Operator's Office	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	376	SF
2/2	231	Office	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	345	SF
2/2	232	Office	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	164	SF
2/2	233	Office	307 ^A	All Floor tiles and associated mastic, #162 can be found on top of #107	250	SF
2/2	234	Office	307 ^A	All Floor tiles and associated mastic, #163 can be found on top of #107	265	SF
2/2	234	Office	164	Black indoor roofing paper	1,000	SF
2/2	235		165	Floor tiles, cream w/ large brown streaks, 9" x 9"	768	SF
2/2	236		165	Floor tiles, cream w/ large brown streaks, 9" x 9"	1,320	SF
2/2	237	Office Area	62	Floor tiles and associated mastic, beige w/ brown streaks, 9" x 9"	1,526	SF
2/2	238	Hallway	34	Pipe insulation and fittings, brown rolled paper, 2-5" O.D.	96	LF
2/2	239	Storage Crib	5	Pipe fitting insulation, magnesium block, 5" O.D.	3	EA
2/2	239	Storage Crib	18	Pipe insulation and fittings, Aircell, 3-5" O.D.	30	LF

TABLE 3.2.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 2

Bld/Flr	Area #	Area Description	Item #	Material Description	Quantity	Units
2/2	240	Office Area	165	Floor tiles, cream w/ large brown streaks, 9" x 9"	11,187	SF
2/2	241	Conf Room	165	Floor tiles, cream w/ large brown streaks, 9" x 9"	417	SF
2/2	241	Conf Room	34	Pipe insulation and fittings, brown rolled paper, 5" O.D.	16	LF
2/2	242	Office	165	Floor tiles, cream w/ large brown streaks, 9" x 9"	173	SF
2/2	242	Office	34	Pipe insulation and fittings, brown rolled paper, 5" O.D.	2	LF
2/2	244	Filing Room	34	Pipe insulation and fittings, brown rolled paper, 4" O.D.	20	LF
2/2	245	Storage Area	168	Miscellaneous fitting insulation - assumed positive (inaccessible due to height)	1	EA
2/2	245	Storage Area	34	Pipe insulation and fittings, brown rolled paper, 2-5" O.D.	120	LF
2/2	246	Training Room 3C	165	Floor tiles, cream w/ large brown streaks, 9" x 9"	384	SF
2/2	248	Storage Room	302	Debris, piece of aircell insulation	1	SF
2/2	248	Storage Room	5	Pipe fitting insulation, magnesium block, 5" O.D.	11	EA
2/2	249	Storage	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9"	936	SF
2/2	250	Storage	34	Pipe insulation and fittings, brown rolled paper, 2" O.D.	8	LF
2/2	251	Office	165	Floor tiles, cream w/ large brown streaks, 9" x 9"	1,169	SF
2/2	254	Janitor's Closet	107	Floor tiles and associated mastic, mint green w/ white & dark green specks, 9" x 9"	140	SF
2/2	255	Eng Blueprint	307 ^A	All Floor tiles and associated mastic, #162 can be found on top of #107	171	SF
2/2	256	Document Staging	307 ^A	All Floor tiles and associated mastic, #162 can be found on top of #107	171	SF
2	---		Roof	Roofing Material	710,000	SF
2	---		FD _p	Fire Doors	500	EA
2	---		WC	Window caulking	20,000	LF
2/Roof	Roof	32	32	* Transite wall board	13,440	SF

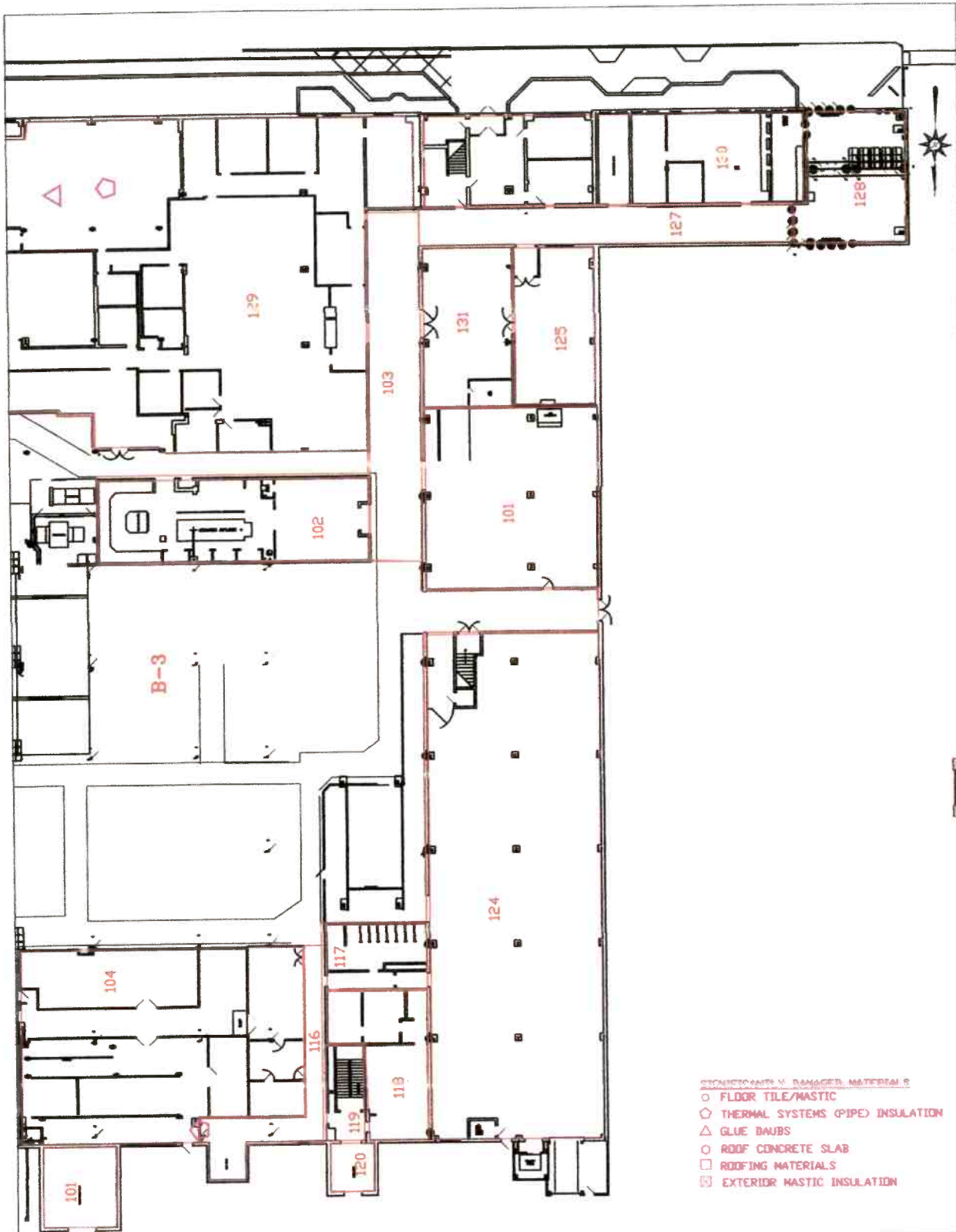
Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

(A) Multiple layers floor tile have been found in the specified area. Since one or more layers of floor tile or mastic were determined to be positive by PLM, the entire effected floor area has been included as ACM.

* PLM results for floor tile are negative, however, since mastic is positive and separation of these two materials is not feasible, floor tile has been included as ACM.

** PLM results for floor tiles were negative. Since insufficient mastic was present for sampling, both the tile and the mastic have been included as ACM.




- CONTAINS OR MAY CONTAIN DAMAGED MATERIALS
- FLOOR TILE/MASTIC
 - ◇ THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE BAUBS
 - ROOF CONCRETE SLAB
 - ▭ ROOFING MATERIALS
 - - - EXTERIOR MASTIC INSULATION

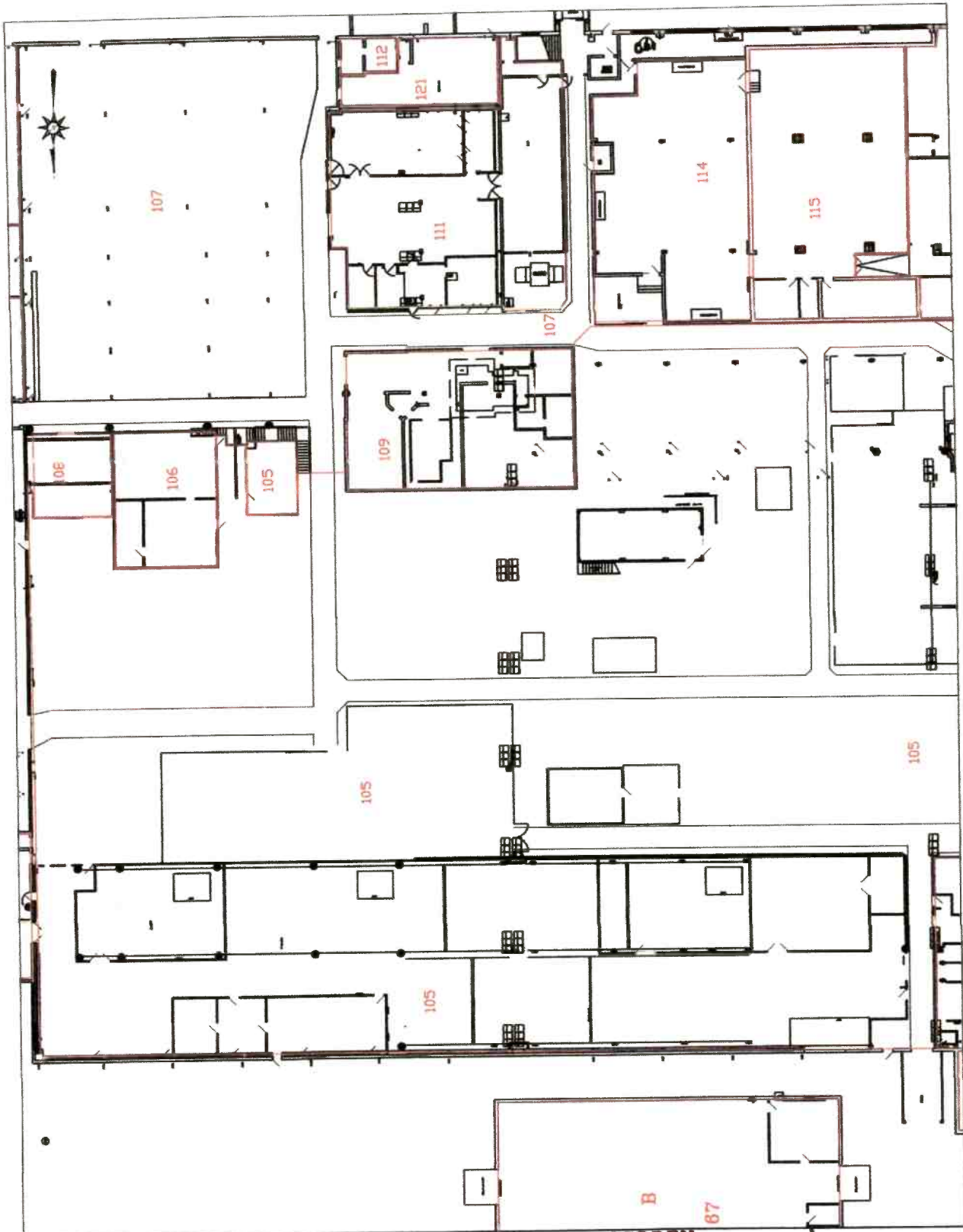
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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 3 FLOOR 1 - AREA A
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
 ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
 Clinton, CT 06413
 Phone (860) 669-8651
 Fax (860) 664-3751



DRAWN BY: RJC
 SCALE: 1"=40'
 DATE: 02.12.13
 REVISIONS:



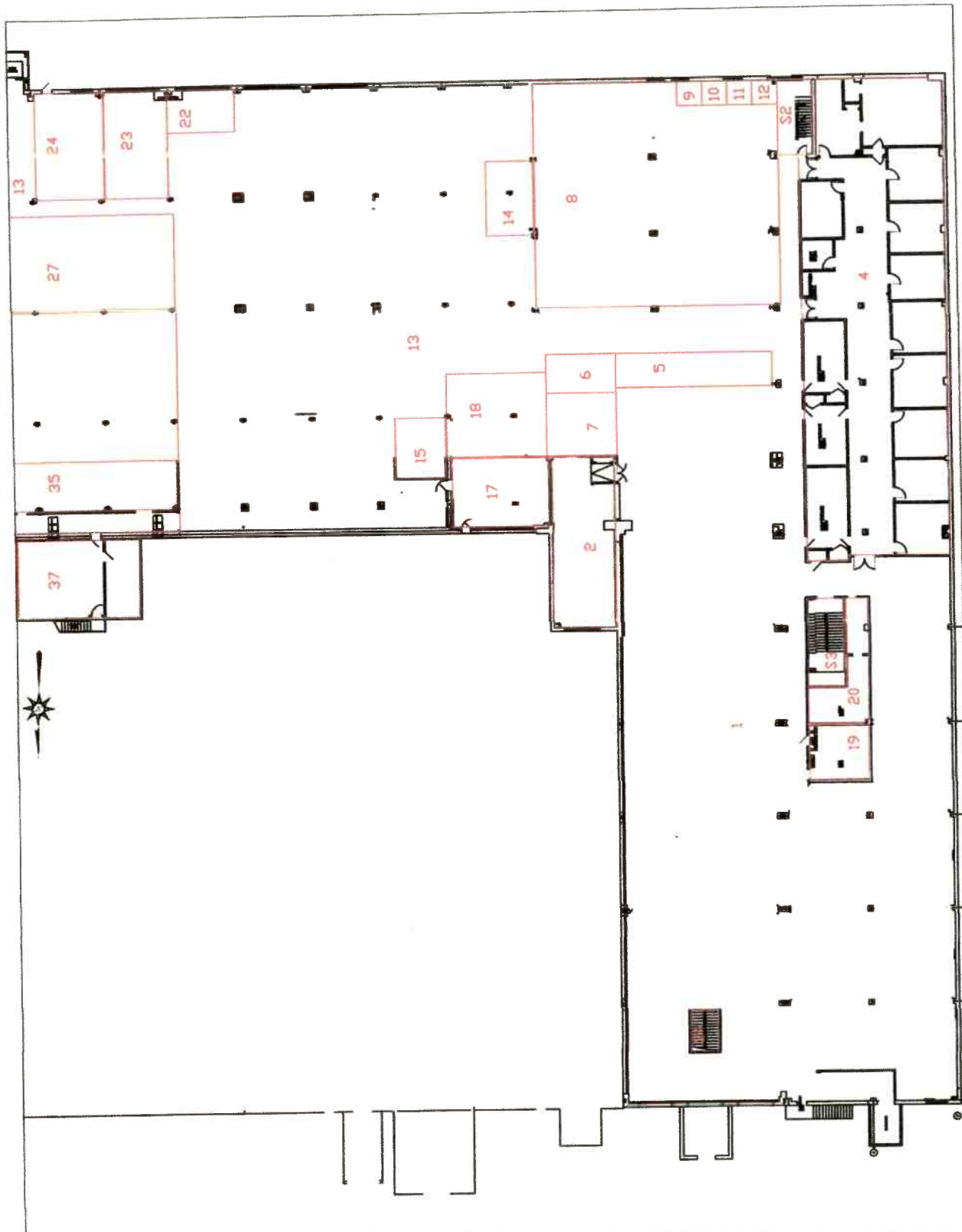
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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 3 FLOOR 1 - AREA B
 BUILDING 67
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
 ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
 Clinton, CT 06413
 Phone (860) 669-8651
 Fax (860) 664-3751



DRAWN BY: RJG
 SCALE: 1"=40'
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 REVISIONS:



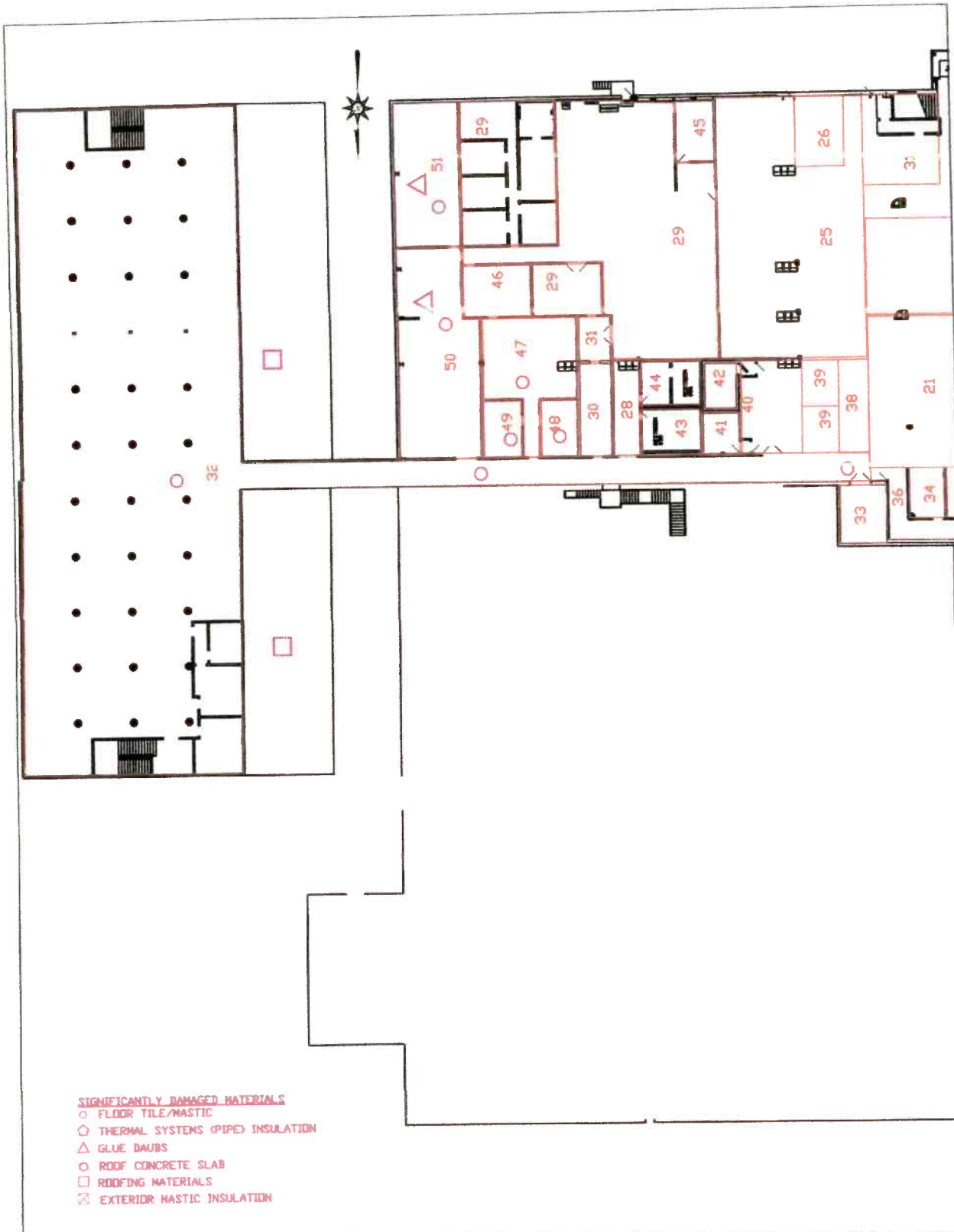
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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 3 FLOOR 2 - AREA A
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
 ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
 Clinton, CT 06413
 Phone (860) 669-8651
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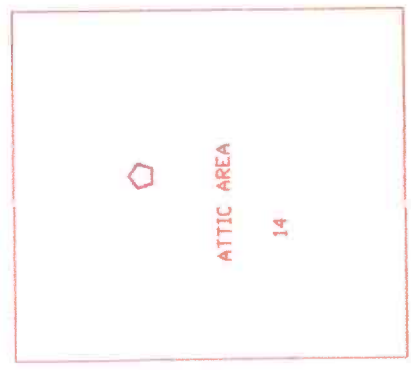
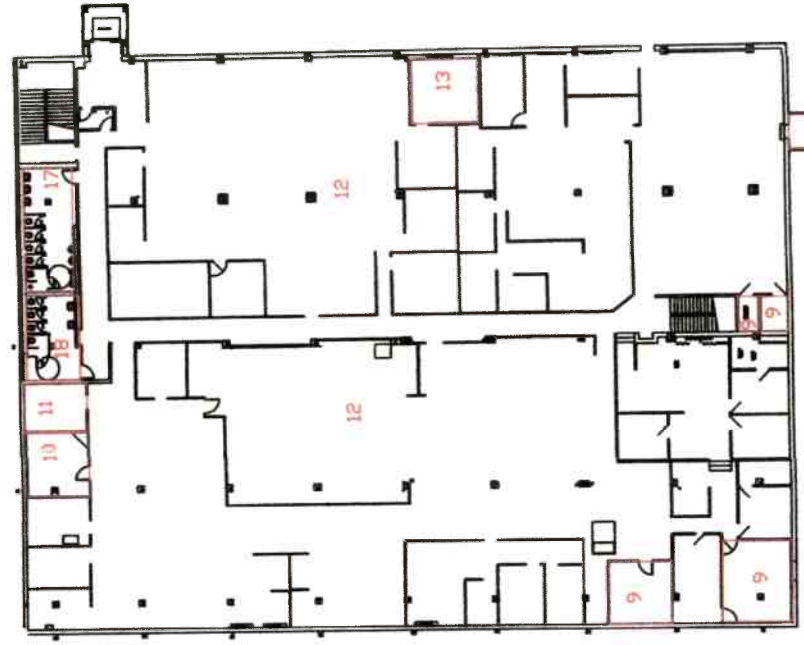
ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 3 FLOOR 2 - AREA B
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY

ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
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- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊠ EXTERIOR MASTIC INSULATION

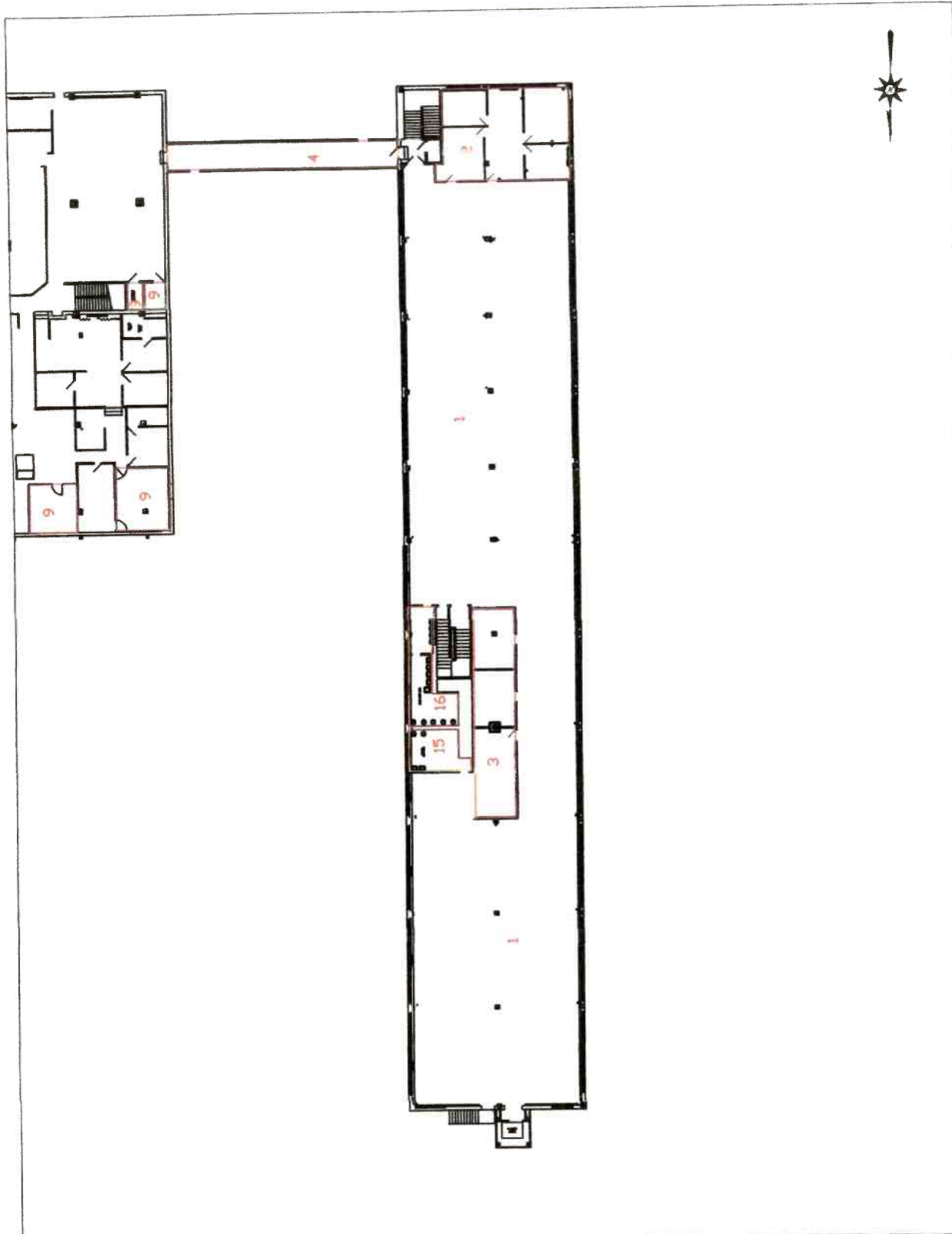
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ASBESTOS SURVEY FEBRUARY 2013
BUILDING 3 FLOOR 3 - AREA A
STRATFORD ARMY ENGINE PLANT
STRATFORD, CT

OSPREY
ENVIRONMENTAL ENGINEERING, LLC
146 East Main Street
Clinton, CT 06413
Phone (860) 669-8651
Fax (860) 664-3751



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SCALE: 1"=40'
DATE: 02.12.13
REVISIONS:



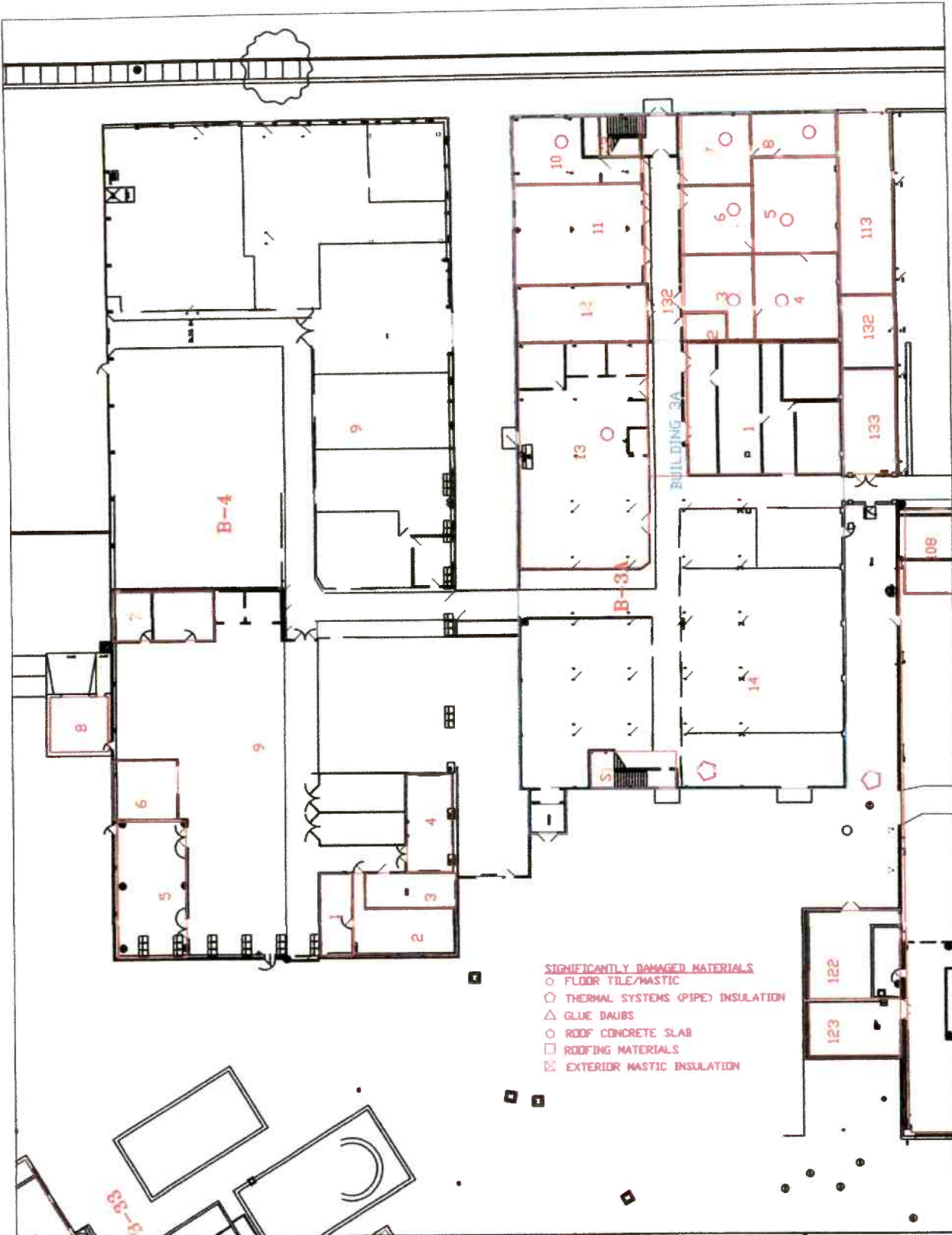
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ASBESTOS SURVEY FEBRUARY 2013
 BURATROB PEROR ENGINEER
 STRATFORD, ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
 ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
 Clinton, CT 06413
 Phone (860) 669-8651
 Fax (860) 664-3751



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDINGS 3A & 4
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
 ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
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 Fax (860) 664-3751



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 SCALE: 1"=40'
 DATE: 02.12.13
 REVISIONS:

TABLE 3.4.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 3A

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
3A/1	11	32	Transite Wall Board	560	SF
3A/1	12	32	Transite Wall Board	650	SF
3A/1	12	18	Pipe insulation and associated fittings, Aircell, 3-5" O.D.	56	LF
3A/1	13	87*	Floor tile and associated black mastic, dark grey with white streaks, 9" x 9"	928	SF
3A/1	13	42	Floor tile, light grey with black and white streaks, 9" x 9"	928	SF
3A/1	13	18	Pipe insulation and associated fittings, Aircell, 5" O.D.	104	LF
3A/1	13	70	Vibration joint	2	EA
3A/1	S1	85	Floor tile and associated mastic, miscellaneous 9" x 9", assume positive	75	SF
3A/1	S2	85	Floor tile and associated mastic, miscellaneous 9" x 9", assume positive	75	SF
3A/1	14	18	Pipe insulation and associated fittings, Aircell, 4-5" O.D.	300	LF
3A/1	15	32	Transite Wall Board	70	SF
3A/1	15	34	Pipe insulation, brown rolled paper, 3" O.D.	2	LF
3A/1	15	70	Vibration joint	1	EA
3A/1	15	18	Pipe insulation and associated fittings, Aircell, 3-4" O.D.	20	LF
3A/2	1	18	Pipe insulation and associated fittings, Aircell, 4" O.D.	70	LF
3A/2	1	85	Floor tile and associated mastic, miscellaneous 9" x 9", assume positive	322	SF
3A/2	2	58	Floor tile and associated mastic, tan with brown and white streaks, 9" x 9"	12,288	SF
3A	---	FD	Fire Doors	45	EA
3A	---	Roof	Roofing Material	17,100	SF
3A	---	WC	Window Caulking	200	LF

Key

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

* PLM results for floor tile are negative, however, since mastic is positive and separation of these two materials is not feasible, floor tile has been included as ACM.

TABLE 3.42.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 67

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	25	LF
FD	Fire doors	4	EA

Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O.D = Outer Diameter

**TABLE 3.3.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 3**

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
3	S1	74	Floor tile and associated mastic, black with white and green streaks, 12" x 12"	75	SF
3	S1	34	Pipe insulation and associated fittings, brown rolled paper, 3" O.D.	10	LF
3	S1	93**	Floor tile and associated mastic, black with white streaks, 12" x 12"	75	SF
3	S1	41	Floor tile and associated mastic, black with white streaks, 9" x 9", assumed positive	10	SF
3	S2	94	Floor tile and associated mastic, beige with black and white streaks, 9" x 9", assumed positive	254	SF
3	S2	88***	Floor tile and associated mastic, grey with tiny black and white streaks, 12" x 12"	45	SF
3	S3	137	Pipe insulation and associated fittings, Aircell, 8" O.D.	10	LF
3	---	FD	Fire Doors	130	EA
3	---	Roof	Roofing Material	88,200	SF
3	---	WC	Window Caulking	4,250	LF
3/1	101	33	Pipe insulation and associated fittings, white rolled paper, 3-4" O.D.	77	LF
3/1	101	69	Pipe insulation and associated fittings, egg crate, 4" O.D.	51	LF
3/1	101	18	Pipe insulation and associated fittings, Aircell, 3" O.D.	1	LF
3/1	101	95	Pipe insulation and associated fittings, light brown bumpy rolled paper, 3-4" O.D.	35	LF
3/1	102	18	Pipe insulation and associated fittings, Aircell, 5" O.D.	23	LF
3/1	103	18	Pipe insulation and associated fittings, Aircell, 4" O.D.	16	LF
3/1	103	138	Pipe insulation and associated fittings, brown rolled paper, 8" O.D.	40	LF
3/1	103	34	Pipe insulation and associated fittings, brown rolled paper, 4-6" O.D.	45	LF
3/1	104	92***	Floor tile and associated mastic, sky blue with small white streaks, 12" x 12"	768	SF
3/1	105	69	Pipe insulation and associated fittings, egg crate, 3-6" O.D.	65	LF
3/1	105	98	Pipe insulation and associated fittings, egg crate, 7-12" O.D.	2,300	LF
3/1	105	18	Pipe insulation and associated fittings, Aircell, 3-6" O.D.	1,500	LF
3/1	105	137	Pipe insulation and associated fittings, Aircell, 7-12" O.D.	20	LF
3/1	105	34	Pipe insulation and associated fittings, brown rolled paper, 3-6" O.D.	220	LF
3/1	105	138	Pipe insulation and associated fittings, brown rolled paper, 7-12" O.D.	500	LF
3/1	105	136	Pipe insulation and associated fittings, magnesium block, 7-12" O.D.	70	LF
3/1	107	18	Pipe insulation and associated fittings, Aircell, 3-6" O.D.	195	LF
3/1	107	1	Pipe insulation and associated fittings, magnesium block, 3-6" O.D.	40	LF
3/1	109	32	Transite Wall Board	48	SF
3/1	109	34	Pipe insulation and associated fittings, brown rolled paper, 3" O.D.	40	LF
3/1	109	98	Pipe insulation and associated fittings, egg crate, 10" O.D.	24	LF
3/1	110	10	Fabric strapping	50	LF
3/1	112	44	Floor tile, black, 9" x 9"	70	SF
3/1	113	98	Pipe insulation and associated fittings, egg crate, 8" O.D.	160	LF
3/1	115	1	Pipe insulation and associated fittings, magnesium block, 4" O.D.	32	LF
3/1	115	137	Pipe insulation and associated fittings, Aircell, 8" O.D.	44	LF
3/1	117	34	Pipe insulation and associated fittings, brown rolled paper, 5-6" O.D.	20	LF
3/1	118	101	Floor tile and associated mastic, beige with small black streaks and large white spots, 12" x 12"	460	SF

**TABLE 3.3.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 3**

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
3/1	118	34	Pipe insulation and associated fittings, brown rolled paper, 3-5" O.D.	6	LF
3/1	118	102	Floor tile and associated mastic, burgundy, unknown size	460	SF
3/1	119	92***	Floor tile and associated mastic, sky blue with small white streaks, 12" x 12"	120	SF
3/1	122	1	Pipe insulation and associated fittings, magnesium block, 4" O.D.	65	LF
3/1	124	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	3,450	SF
3/1	125	33	Pipe insulation and associated fittings, white rolled paper, 4" O.D.	80	LF
3/1	125	278	Floor coating over concrete, pink, with residual carpet mastic	920	SF
3/1	125	69	Pipe insulation and associated fittings, egg crate, 4" O.D.	3	LF
3/1	129	188	Floor tile and associated black mastic, cream with linear brown streaks, 12" x 12"	9,700	SF
3/1	129	297	Chiller insulation, black tar over powdery white insulant	250	SF
3/1	129	98	Pipe insulation and associated fittings, egg crate, 8-10" O.D.	52	LF
3/1	129	138	Pipe insulation and associated fittings, brown rolled paper, 8" O.D.	115	LF
3/1	129	18	Pipe insulation and associated fittings, Aircell, 3-5" O.D.	86	LF
3/1	129	90	Pipe insulation and associated fittings, inaccessible, 4-5" O.D.	48	LF
3/1	130	268	Floor tile, light tan with white and grey thin streaks, 9" x 9"	500	SF
3/1	130	269	Floor tile, beige with thin white and grey streaks, 12" x 12"	110	SF
3/1	130	242	Floor tile and associated black mastic, clay red with ridges, 12" x 12"	475	SF
3/1	130	32	Transite wall and ceiling board	530	SF
3/1	130	18	Pipe insulation and associated fittings, Aircell, 4" O.D.	20	LF
3/1	130	17M	Mastic, brown, from cellulose acoustical ceiling tile, 1' x 1', linear holes	180	SF
3/1	130	257	Floor tile and associated black mastic, white with small black streaks, 9" x 9"	216	SF
3/1	131	33	Pipe insulation and associated fittings, white rolled paper, 4" O.D.	12	LF
3/1	131	246	Black carpet mastic, residual	1,100	SF
3/2	1	62	Floor tile, beige with brown streaks, 9" x 9"	13,960	SF
3/2	1	33	Pipe insulation and associated fittings, white rolled paper, 4" O.D.	328	LF
3/2	1	139	Pipe insulation and associated fittings, white rolled paper, 9" O.D.	36	LF
3/2	1	34	Pipe insulation and associated fittings, brown rolled paper, 6" O.D.	34	LF
3/2	1	69	Pipe insulation and associated fittings, egg crate rolled paper, 4" O.D.	45	LF
3/2	3	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	7	SF
3/2	4	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	2,640	SF
3/2	4	69	Pipe insulation and associated fittings, egg crate rolled paper, 4" O.D.	12	LF
3/2	4	62	Floor tile, beige with brown streaks, 9" x 9"	5,280	SF
3/2	4	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	335	SF
3/2	5	71*	Floor tile and associated black mastic, white with grey specks, 12" x 12"	670	SF
3/2	6	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	100	SF
3/2	6	71*	Floor tile and associated black mastic, white with grey specks, 12" x 12"	195	SF
3/2	7	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	190	SF
3/2	7	62	Floor tile, beige with brown streaks, 9" x 9"	380	SF

**TABLE 3.3.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 3**

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
				2,200	SF
3/2	8	72	Floor tile, greenish with white and grey streaks, 9" x 9"	90	SF
3/2	9	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	183	SF
3/2	9	72	Floor tile, greenish with white and grey streaks, 9" x 9"	70	SF
3/2	10	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	140	SF
3/2	10	72	Floor tile, greenish with white and grey streaks, 9" x 9"	70	SF
3/2	11	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	140	SF
3/2	11	72	Floor tile, greenish with white and grey streaks, 9" x 9"	90	SF
3/2	12	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	182	SF
3/2	12	72	Floor tile, greenish with white and grey streaks, 9" x 9"	180	LF
3/2	13	69	Pipe insulation and associated fittings, egg crate rolled paper, 3-5" O.D.	12,000	SF
3/2	13	19	Residual floor tile mastic (under carpet) - assumed positive	40	SF
3/2	16	55	Floor tile and associated black mastic, black with brown streaks, 12" x 12"	15	SF
3/2	17	55	Floor tile and associated black mastic, black with brown streaks, 12" x 12"	30	LF
3/2	17	69	Pipe insulation and associated fittings, egg crate rolled paper, 3-5" O.D.	24	LF
3/2	18	34	Pipe insulation and associated fittings, brown rolled paper, 3" O.D.	2	LF
3/2	18	18	Pipe insulation and associated fittings, Aircell, 5" O.D.	11	LF
3/2	18A	34	Pipe insulation and associated fittings, brown rolled paper, 3" O.D.	7	LF
3/2	19	1	Pipe insulation and associated fittings, magnesium block, 6" O.D.	35	LF
3/2	20	18	Pipe insulation and associated fittings, Aircell, 6" O.D.	7	LF
3/2	20	34	Pipe insulation and associated fittings, brown rolled paper, 6" O.D.	2,531	SF
3/2	21	74	Floor tile and associated black mastic, black with white and green streaks, 12" x 12"	30	LF
3/2	21	18	Pipe insulation and associated fittings, Aircell, 3 1/2 - 4" O.D.	9	LF
3/2	21	34	Pipe insulation and associated fittings, brown rolled paper, 4" O.D.	220	SF
3/2	22	19	Residual floor tile mastic (under carpet) - assumed positive	18	LF
3/2	23	34	Pipe insulation and associated fittings, brown rolled paper, 3" O.D.	17	LF
3/2	24	69	Pipe insulation and associated fittings, egg crate rolled paper, 3" O.D.	390	SF
3/2	25	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	782	SF
3/2	25	77**	Floor tile and associated mastic, dark brown with cream and tan streaks	312	SF
3/2	27	78	Floor tile and associated black mastic, cream with brown and black swirls, 12" x 12"	50	LF
3/2	27	18	Pipe insulation and associated fittings, Aircell, 4" O.D.	14	LF
3/2	28	18	Pipe insulation and associated fittings, Aircell, 4" O.D.	220	SF
3/2	28	19	Residual floor tile mastic (under carpet) - assumed positive	2,280	SF
3/2	29	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	4,300	SF
3/2	29	85	Floor tile and associated mastic, miscellaneous, 9" x 9", assumed positive	270	SF
3/2	29	83	Linoleum floor - tan with white and black streaks	110	SF
3/2	30	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	234	SF
3/2	30	79	Floor tile and associated black mastic, beige with brown streaks and blotches, 12" x 12"	50	SF
3/2	31	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	470	SF
3/2	32	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes		

TABLE 3.3.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 3

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
3/2	32	58**	Floor tile and associated mastic, tan with brown and white streaks, 9" x 9"	1,053	SF
3/2	32	80**	Floor tile, miscellaneous black under item 58, suspected 9" x 9"	1,053	SF
3/2	32	33	Pipe insulation and associated fittings, white rolled paper, 4" O.D.	2	LF
3/2	33	81**	Floor tile and associated mastic, tan with white streaks, 9" x 9"	208	SF
3/2	33	34	Pipe insulation and associated fittings, brown rolled paper, 5" O.D.	16	LF
3/2	34	44	Floor tile, black, 9" x 9"	250	SF
3/2	36	69	Pipe insulation and associated fittings, egg crate rolled paper, 3-5" O.D.	110	LF
3/2	36	112	Assumed floor tile under carpet	360	SF
3/2	38	83	Linoleum floor - tan with white and black streaks	180	SF
3/2	38	84**	Floor tile and associated mastic, burgundy with tan streaks, 9" x 9"	180	SF
3/2	39	83	Linoleum floor - tan with white and black streaks	325	SF
3/2	39	84**	Floor tile and associated mastic, burgundy with tan streaks, 9" x 9"	325	SF
3/2	40	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	225	SF
3/2	40	85	Floor tile and associated mastic, miscellaneous, 9" x 9", assumed positive	540	SF
3/2	41	86*	Floor tile and associated black mastic, tan with small white and black streaks, 12" x 12"	120	SF
3/2	42	85	Floor tile and associated mastic, miscellaneous, 9" x 9", assumed positive	105	SF
3/2	45	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	90	SF
3/2	45	19	Residual floor tile mastic (under carpet) - assumed positive	190	SF
3/2	46	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	140	SF
3/2	46	87	Floor tile and associated mastic, grey with large white streaks, 9" x 9", assumed positive	241	SF
3/2	46	42	Floor tile and associated mastic, light grey with black and white streaks, 9" x 9", assumed positive	12	SF
3/2	46	88***	Floor tile and associated mastic, grey with tiny black and white streaks, 12" x 12"	13	SF
3/2	47	85	Floor tile and associated mastic, miscellaneous, 9" x 9", assumed positive	450	SF
3/2	47	89	Floor tile and associated black mastic, tan with cream streaks, 12" x 12"	50	SF
3/2	47	90	Pipe insulation, 5-7" O.D., assumed positive, inaccessible	52	LF
3/2	48	89	Floor tile and associated black mastic, tan with cream streaks, 12" x 12"	52	SF
3/2	48	42	Floor tile and associated mastic, light grey with black and white streaks, 9" x 9", assumed positive	108	SF
3/2	49	42	Floor tile and associated mastic, light grey with black and white streaks, 9" x 9", assumed positive	160	SF
3/2	50	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	620	SF
3/2	50	42	Floor tile and associated mastic, light grey with black and white streaks, 9" x 9", assumed positive	984	SF
3/2	50	85	Floor tile and associated mastic, miscellaneous, 9" x 9", assumed positive	200	SF
3/2	50	92***	Floor tile and associated mastic, sky blue with small white streaks, 12" x 12"	36	SF
3/2	50	33	Pipe insulation and associated fittings, white rolled paper, 5" O.D.	12	LF
3/2	50	90	Pipe insulation, 5" O.D., assumed positive, inaccessible	23	LF
3/2	50	98	Pipe insulation and associated fittings, egg crate rolled paper, 8" O.D.	22	LF
3/2	50	34	Pipe insulation and associated fittings, brown rolled paper, 5" O.D.	11	LF
3/2	50	88***	Floor tile and associated mastic, grey with tiny black and white streaks, 12" x 12"	20	SF
3/2	51	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	360	SF
3/2	51	85	Floor tile and associated mastic, miscellaneous, 9" x 9", assumed positive (majority grey with large white streaks)	720	SF

**TABLE 3.3.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 3**

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
3/2	400	18	Pipe insulation and associated fittings, Aircell, 3-6" O.D.	350	LF
3/2	400	137	Pipe insulation and associated fittings, Aircell, 7-8" O.D.	350	LF
3/2	400	67	Duct insulation over cork, magnesium block, assumed positive	4,200	SF
3/2	400	298	Miscellaneous tank insulation, assumed positive	200	SF
3/3	1	53	Vibration joint, white fabric	8	EA
3/3	1	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	5,410	SF
3/3	2	17M	Mastic, black, from cellulose acoustical ceiling tile, 1' x 1', linear holes	460	SF
3/3	6	55	Floor tile and associated black mastic, black with brown streaks, 12" x 12"	15	SF
3/3	7	58**	Floor tile and associated mastic, tan with brown and white streaks, 9" x 9"	255	SF
3/3	9	58**	Floor tile and associated mastic, tan with brown and white streaks, 9" x 9"	182	SF
3/3	10	58**	Floor tile and associated mastic, tan with brown and white streaks, 9" x 9"	196	SF
3/3	10	61**	Floor tile and associated mastic, black (under tile # 58), size unknown	196	SF
3/3	12	53	Vibration joint, white fabric	12	EA
3/3	12	55	Floor tile and associated black mastic, black with brown streaks, 12" x 12"	7,185	SF
3/3	14	34	Pipe insulation and associated fittings, brown rolled paper, 4" O.D.	50	LF
3/3	14	137	Pipe insulation and associated fittings, Aircell, 8" O.D.	15	LF
3/3	14	33	Pipe insulation and associated fittings, white rolled paper, 4-6" O.D.	19	LF
3/3	14	67	Magnesium block insulation over cork on HVAC and ducts	407	SF
3/3	14	69	Pipe insulation and associated fittings, egg crate rolled paper, 3-4" O.D.	31	LF
3/3	15	33	Pipe insulation and associated fittings, white rolled paper, 2 1/2" O.D.	12	LF
3/3	15	34	Pipe insulation and associated fittings, brown rolled paper, 5" O.D.	12	LF
3/3	16	139	Pipe insulation and associated fittings, white rolled paper, 7" O.D.	4	LF
3/3	16	33	Pipe insulation and associated fittings, white rolled paper, 2 1/2 - 3" O.D.	40	LF

Key

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

* PLM results for floor tile are negative, however, since mastic is positive and separation of these two materials is not feasible, floor tile has been included as ACM.

** Floor tile was sampled and determined to be positive by PLM. Insufficient mastic was present for sampling and has been included as ACM.

*** Items 88 and 92 - PLM results for floor tiles were negative. Since insufficient mastic was present for sampling, both the tile and the mastic have been included as ACM.



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 6 FLOOR 1 - AREA A
 BUILDINGS 6A & 17
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
 ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
 Clinton, CT 06413
 Phone (860) 669-8651
 Fax (860) 664-3751



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 SCALE: 1"=40'
 DATE: 02.12.13
 REVISIONS:




- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - △ THERMAL SYSTEMS (PIPE) INSULATION
 - GLUE DAUBS
 - ◇ ROOF CONCRETE SLAB
 - ▭ ROOFING MATERIALS
 - ⊠ EXTERIOR MASTIC INSULATION

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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 6 FLOOR 1 - AREA B
 BUILDINGS 60 & 61
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
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 Clinton, CT 06413
 Phone (860) 669-8651
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 REVISIONS:

SNIFFEN LANE



B-53

- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊞ EXTERIOR MASTIC INSULATION

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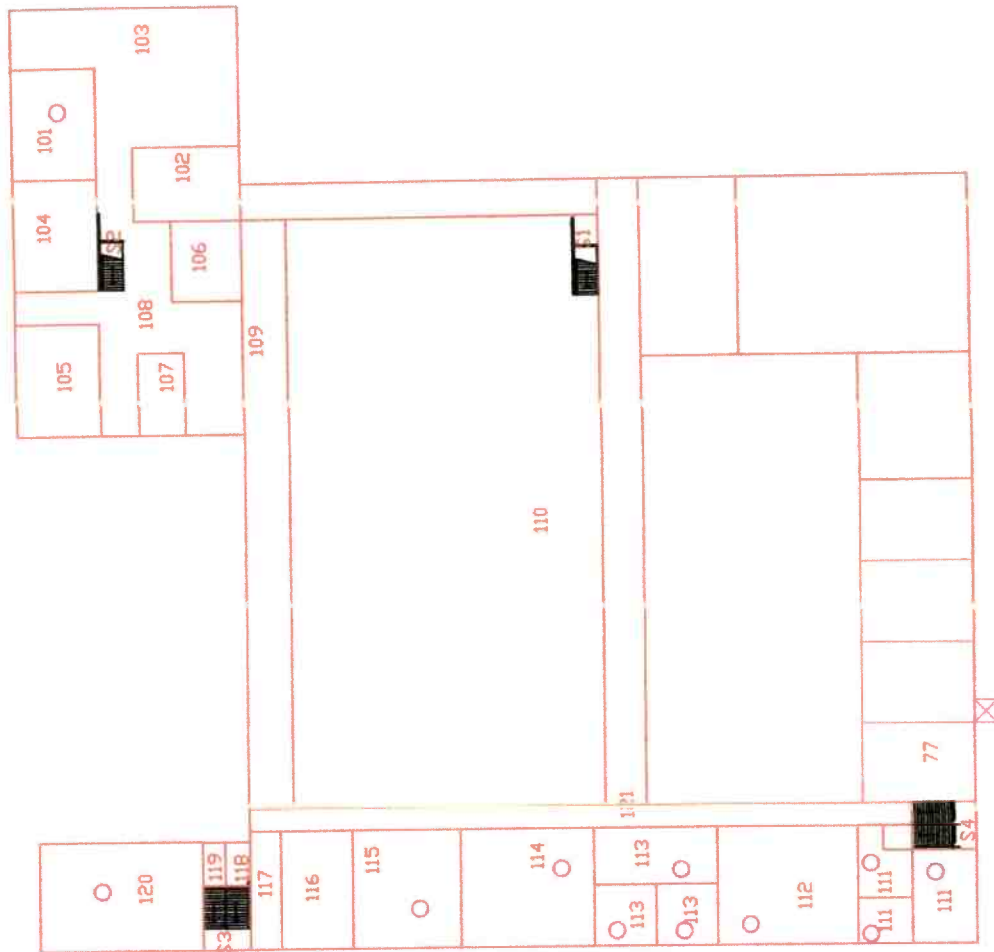
ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 53
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

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B-6 2ND FLOOR

- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊠ EXTERIOR MASTIC INSULATION

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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 6 FLOOR 2
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

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10

LO

LO

TABLE 3.33.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 53

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	30	LF
Roof	Roofing Material	12,694	SF
FD	Fire doors	6	EA

Key.
LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

TABLE 3.8.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 6A

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
6A	1	33	Pipe insulation and associated fittings, white rolled paper, 6" O.D.	70	LF
6A	1	1	Pipe insulation and associated fittings, magnesium block, 4" O.D.	40	LF
6A	2	1	Pipe insulation and associated fittings, magnesium block, 3-4" O.D.	75	LF
6A	3	1	Pipe insulation and associated fittings, magnesium block, 3-6" O.D.	50	LF
6A	3	136	Pipe insulation and associated fittings, magnesium block, 7-8" O.D.	100	LF
6A	3	49	Pipe insulation and associated fittings, magnesium block, pink, 7-8" O.D.	20	LF
6A	4	49	Pipe insulation and associated fittings, magnesium block, pink, 8" O.D.	14	LF
6A	4	136	Pipe insulation and associated fittings, magnesium block, 7" O.D.	55	LF
6A	5	1	Pipe insulation and associated fittings, magnesium block, 3-4" O.D.	75	LF
6A	6	1	Pipe insulation and associated fittings, magnesium block, 4-5" O.D.	75	LF
6A	--	FD	Fire Doors	17	EA
6A	--	Roof	Roofing Material	2,183	SF
6A	--	WC	Window Caulking	250	LF
6A	OUT	1	Pipe insulation and associated fittings, magnesium block, 4" O.D.	170	LF
6A	OUT	273	Black tar on elbows and pipe seams (<12" O.D.)	20	EA

Key:

LF = Linear Feet; SF = Square Feet, EA = Each; O.D. = Outer Diameter

OUT = Outdoor piping

TABLE 3.18.2
SUMMARY OF ANALYTICAL RESULTS
BUILDING 17

Lab Sample No.	Field Sample No.	Description	% Asb ⁽¹⁾
110497- 991	110397 - 17 - 285 - 01	Grey flexible caulking on door (CK17-1)	0.0
110497- 992	110397 - 17 - 288 - 01	Off-white chewy caulking around door (CK17-2)	6.4
110497- 993	110397 - 17 - 288 - 02	Light grey chewy caulking around door on portable office (CK17-3)	0.0

Notes:

⁽¹⁾ Results are based upon Polarized Light Microscopy (PLM) analysis.

TABLE 3.37.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 61

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
1	Pipe insulation, magnesium block, 6" O.D.	60	LF
2A	Heat exchanger insulation, magnesium block, 14" O.D.	7	LF
3	Still Pot insulation, magnesium block	126	SF
FD	Fire Doors	6	EA
Roof	Roofing Material	6,211	SF
WC	Window Caulking	1,050	LF

Key:

LF = Linear Feet, SF = Square Feet; EA = Each; O D = Outer Diameter

TABLE 3.36.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 60

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
Roof	Roofing Material	190	SF

Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O.D = Outer Diameter

TABLE 3.7.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 6

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
6/1	79	5	Pipe fitting insulation on <3" O.D. pipe	16	EA
6/1	80	5	Pipe fitting insulation on <3" O.D. pipe	5	EA
6/1	85	1	Pipe insulation and associated fittings, magnesium block, 4-6" O.D.	108	LF
6/1	85	18	Pipe insulation and associated fittings, Aircell, 4" O.D.	16	LF
6/2	101	139	Pipe insulation and associated fittings, white rolled paper, 8" O.D.	31	LF
6/2	101	20	Floor tile, green, 9" x 9"	530	SF
6/2	101	136	Pipe insulation and associated fittings, magnesium block, 8" O.D.	18	LF
6/2	102	136	Pipe insulation and associated fittings, magnesium block, 8" O.D.	17	LF
6/2	103	33	Pipe insulation and associated fittings, white rolled paper, 4-5" O.D.	26	LF
6/2	103	136	Pipe insulation and associated fittings, magnesium block, 8" O.D.	6	LF
6/2	103	34	Pipe insulation and associated fittings, brown rolled paper, 5" O.D.	42	LF
6/2	111	36	Floor tile, black with large white and teal streaks, 9" x 9", and associated mastic	420	SF
6/2	111	37	Floor tile, greenish-grey with white and black streaks, 9" x 9"	105	SF
6/2	112	37	Floor tile, greenish-grey with white and black streaks, 9" x 9"	700	SF
6/2	112	41	Floor tile and associated mastic, black with white streaks, 9" x 9"	45	SF
6/2	113	42	Floor tile, light grey with numerous black and white streaks, 9" x 9"	550	SF
6/2	114	37	Floor tile, greenish-grey with white and black streaks, 9" x 9"	575	SF
6/2	115	37	Floor tile, greenish-grey with white and black streaks, 9" x 9"	480	SF
6/2	116A	44	Floor tile and associated mastic, black, 9" x 9", assumed positive	54	SF
6/2	118	36	Floor tile, black with large white and teal streaks, 9" x 9", and associated mastic	62	SF
6/2	120	45	Floor tile, dark grey with black and white streaks, 9" x 9"	1,344	SF
6/2	121	46	Residual black mastic, floor tile previously removed	1,000	SF
6	---	FD	Fire Doors	160	EA
6	---	Roof	Roofing Material	72,650	SF
6	---	WC	Window Caulking	4,000	LF
6	OUT	273	Black tar on pipe fitting insulation and pipe fittings insulation ends (large fittings >11")	380	SF
6	OUT	273	Black tar on pipe fitting insulation, 8" O.D.	4	EA
6	OUT	290	Pipe insulation, steel wrap, 8" O.D., inaccessible	100	LF
6	CT	273	Black tar on pipe fitting insulation and pipe fittings insulation ends (large fittings >11")	420	SF

Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

OUT = Outdoor piping

CT = Cooling tower across from Building 6

**TABLE 3.7.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 6**

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
6/1	1	1	Pipe insulation and associated fittings, magnesium block, 6" O.D.	700	LF
6/1	1	5	Pipe fitting insulation on steam supply	56	EA
6/1	1	6	Pipe fitting insulation over foam	216	SF
6/1	1	7	Pipe fittings insulation, solid, 18" O.D pipe	252	SF
6/1	1	8	Paper pipe covering (1.5' x 30')	150	SF
6/1	1	10	Fabric strapping (2" wide) on one valve	20	LF
6/1	1	11	Pipe insulation and associated fittings, magnesium block, 16" O.D.	68	LF
6/1	15	1	Pipe insulation and associated fittings, magnesium block, 4" O.D.	48	LF
6/1	15	18	Pipe insulation and associated fittings, Aircell, 4" O.D.	48	LF
6/1	16	18	Pipe insulation and associated fittings, Aircell, 6" O.D.	25	LF
6/1	17A	18	Pipe insulation and associated fittings, Aircell, 3-6" O.D.	30	LF
6/1	17B	90	Pipe insulation and associated fittings, Aircell (inaccessible, assumed)	50	LF
6/1	19	18	Pipe insulation and associated fittings, Aircell, 3-6" O.D.	40	LF
6/1	20	1	Pipe insulation and associated fittings, magnesium block, 3-6" O.D.	100	LF
6/1	21	1	Pipe insulation and associated fittings, magnesium block, 3-6" O.D.	150	LF
6/1	22	18	Pipe insulation and associated fittings, Aircell, 3-6" O.D.	85	LF
6/1	23	18	Pipe insulation and associated fittings, Aircell, 3-6" O.D.	75	LF
6/1	24	18	Pipe insulation and associated fittings, Aircell, 3-6" O.D.	85	LF
6/1	26	24	Steam heat exchanger, 18" O.D.	50	SF
6/1	51	18	Pipe insulation and associated fittings, Aircell, 3-6" O.D. (including debris above drop ceiling)	150	LF
6/1	51	301	Acoustical ceiling tile, glued on, linear holes, 1' x 1', grey interior, contaminated	790	SF
6/1	51	20	Floor tile, green, 9" x 9"	10	SF
6/1	51	32	Transite wall board, thin	85	SF
6/1	52	20	Floor tile, green, 9" x 9"	20	SF
6/1	54	5	Pipe fitting insulation	1	EA
6/1	57	27	Floor tile, green with dark green and white streaks, 12" x 12"	1,200	SF
6/1	58	6	Pipe fitting insulation (magnesium block) over foam	63	SF
6/1	58	11	Pipe insulation, magnesium block, 16" O.D.	3	LF
6/1	65	11	Pipe insulation, magnesium block, 16" O.D.	3	LF
6/1	65	7	Pipe fitting insulation (magnesium block) on 16" O D pipe	64	SF
6/1	68	30	Pink magnesium block wall insulation	450	SF
6/1	69A	32	Transite wall board (thick)	200	SF
6/1	77	32	Transite wall board (thin)	1,400	SF
6/1	77A	32	Transite wall board (thin)	144	SF

TABLE 3.19.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 18

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	200	LF
Roof	Roofing Material	5,820	SF
FD	Fire doors	9	EA

TOTAL ESTIMATED QUANTITIES OF FLOOR TILE AND FLOOR TILE MASTIC - NON-ACM BY PLM

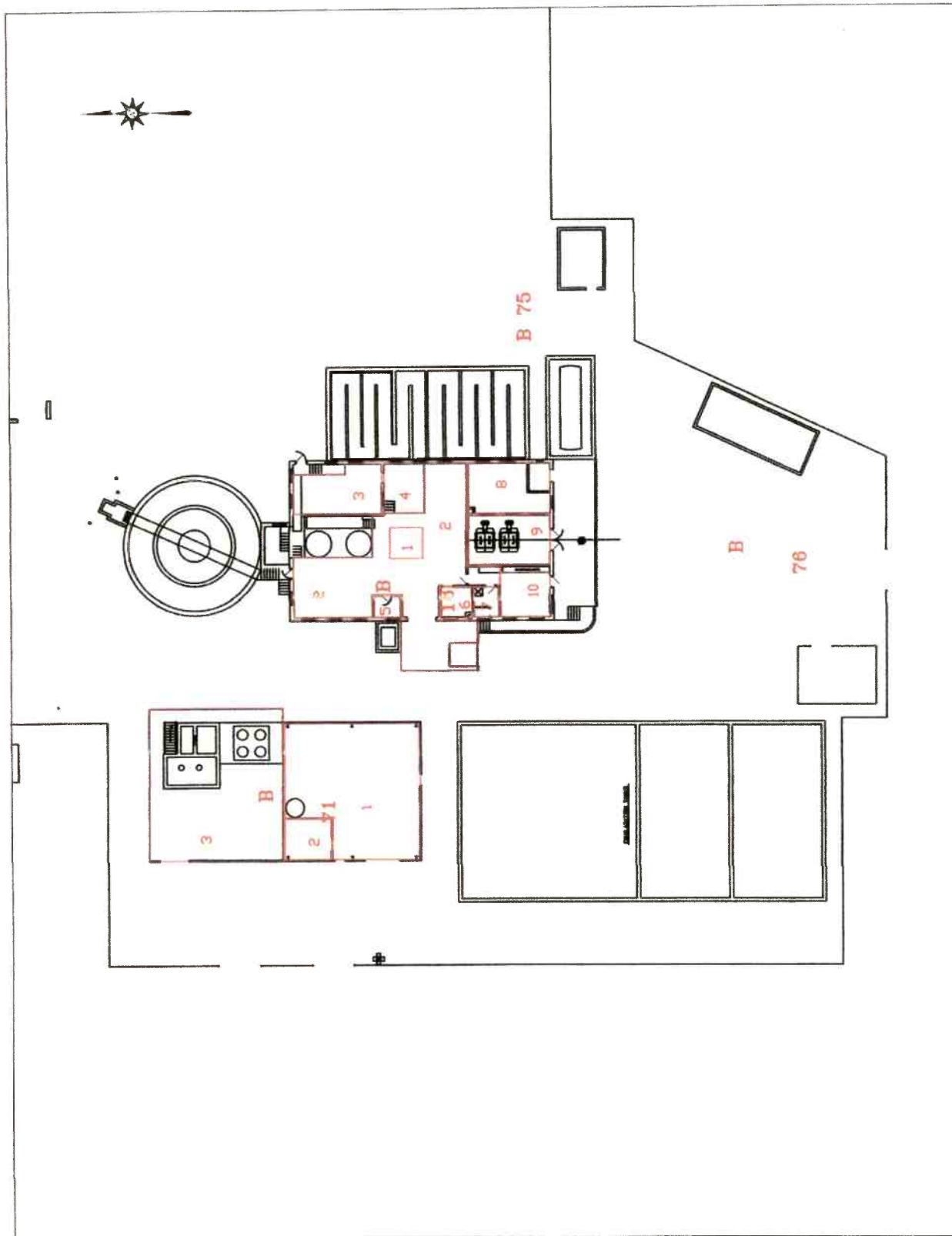
Item #	Material Description	Quantity	Units
79	Floor tile and associated mastic, beige with brown streaks and blotches, 12" x 12"	75	SF
114	Floor tile and associated mastic, beige with small black and white specks, 12" x 12"	7	SF

Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

ACM = Asbestos containing material (>1% asbestos)

PLM = Polarized Light Microscopy



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDINGS 18, 71, 75, 76
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
 ENVIRONMENTAL ENGINEERING, LLC
 148 East Main Street
 Clinton, CT 06413
 Phone (860) 669-8651
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 SCALE: 1"=40'
 DATE: 02.12.13
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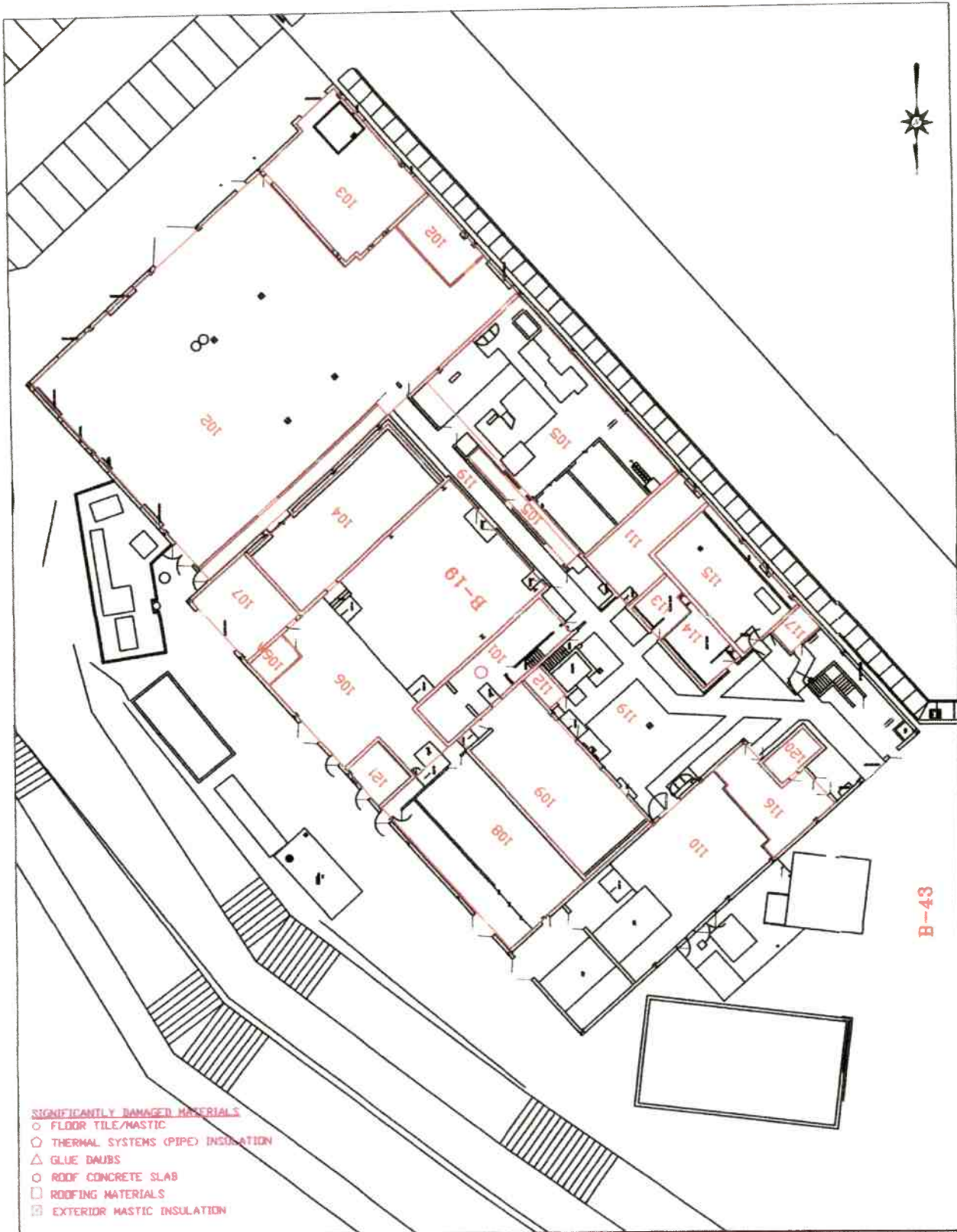
TABLE 3.46.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 71

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	250	LF
FD	Fire doors	3	EA

Key

LF = Linear Feet; SF = Square Feet, EA = Each; O D. = Outer Diameter




- SIGNIFICANTLY DAMAGED MATERIALS**
- FLOOR TILE/MASTIC
 - THERMAL SYSTEMS (PIPE) INSULATION
 - △ GLUE DAUBS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - EXTERIOR MASTIC INSULATION

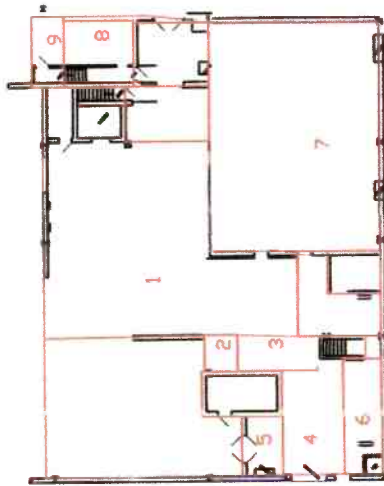
34

ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 19 FLOOR 1
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
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B-19 2ND FLOOR

35

ASBESTOS SURVEY FEBRUARY 2013
BUILDING 19 FLOOR 2
STRATFORD ARMY ENGINE PLANT
STRATFORD, CT

**ENVIRONMENTAL ENGINEERING, LLC**
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TABLE 3.20.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 19

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
19/1	101	122	Floor tile and associated mastic, light grey with black and white streaks, 9" x 9"	680	SF
19/1	102	6	Pipe fitting insulation over foam pipe insulation, 16" O D	90	SF
19/1	102	32	Transite wall board, thick	768	SF
19/1	102	290 ⁽¹⁾	Pipe insulation and associated fittings, steel encased, portions inaccessible, 8" O.D. (suspect)	45	LF
19/1	103	290 ⁽¹⁾	Pipe insulation, steel encased, portions inaccessible, 12" O D. (suspect)	17	LF
19/1	103	7	Pipe fitting insulation on 12" O.D. pipe insulation	24	SF
19/1	103	290 ⁽¹⁾	Pipe insulation and associated fittings, steel encased, inaccessible, 18" O.D. (suspect)	40	LF
19/1	105	290 ⁽¹⁾	Pipe insulation and associated fittings, steel encased, inaccessible, 16-18" O D. (suspect)	200	LF
19/1	105	290 ⁽¹⁾	Pipe insulation and associated fittings, steel encased, inaccessible, 8" O.D. (suspect)	90	LF
19/1	105	5	Pipe fitting insulation, white, on 5" O.D. fiberglass insulated pipe	5	EA
19/1	106	290 ⁽¹⁾	Pipe insulation and associated fittings, steel encased, inaccessible, 22" O.D. (suspect)	55	LF
19/1	106	290 ⁽¹⁾	Pipe insulation and associated fittings, steel encased, inaccessible, 12" O.D. (suspect)	85	LF
19/1	106	290 ⁽¹⁾	Pipe insulation and associated fittings, steel encased, inaccessible, 8" O.D. (suspect)	15	LF
19/1	109	117	Floor tile, light grey with black and white chips, 9" x 9"	1,270	SF
19/roof	roof	290 ⁽¹⁾	Pipe insulation and associated fittings, steel encased, inaccessible, 18" O.D. (suspect)	40	LF
19	---	WC	Window Caulking	800	LF
19	---	FD	Fire Doors	66	EA
19/roof	indoor roof	Roof	Indoor built-up roofing material and flashing	1,130	SF

Key:

LF = Linear Feet, SF = Square Feet, EA = Each, O.D = Outer Diameter

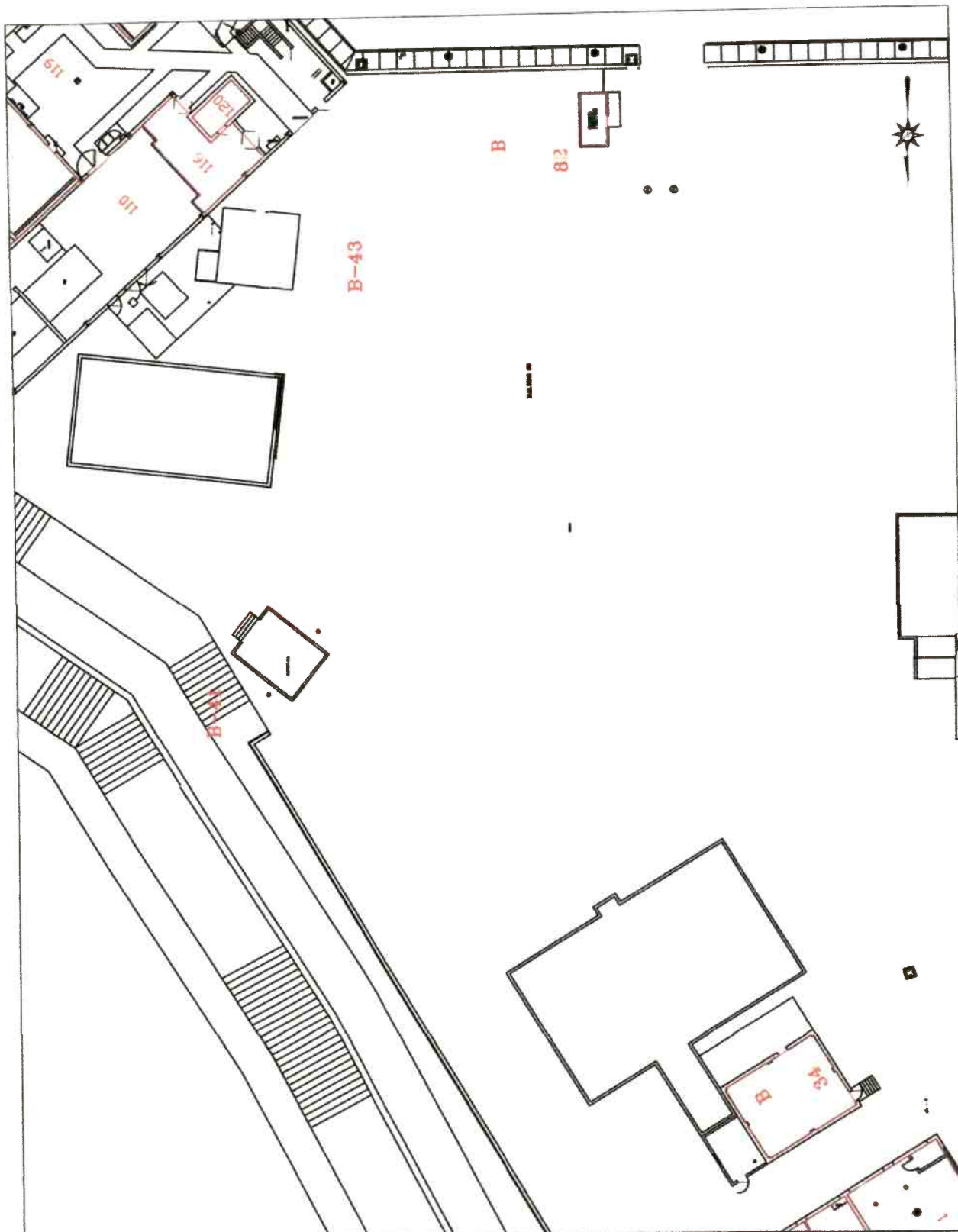
⁽¹⁾ Malcolm Pirnie was informed by Allied Signal personnel that all asbestos containing materials had been abated from this building. In order to conduct a complete survey of the facility, Building 19 was included in the survey. Sampling of steel encased pipe insulation has yielded negative results, however due to the abundance of pipe insulation in this building and the fact that most of the insulation is encased with a steel wrap, we have included this material as suspect ACM. More extensive sampling of this material should be performed prior to removal or disturbance.

TABLE 3.29.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 43

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	20	LF
Roof	Roofing Material	516	SF
FD	Fire doors	2	EA


Key:
LF = Linear Feet; SF = Square Feet; EA = Each, O.D. = Outer Diameter



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDINGS 34, 41, 43, 82
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

OSPREY
 ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
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TABLE 3.27.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 41

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	6	LF
Roof	Roofing Material	390	SF
FD	Fire doors	2	EA

Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

**TABLE 3.57.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 82**

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	60	LF
FD	Fire doors	1	EA

TOTAL ESTIMATED QUANTITIES OF FLOOR TILE AND FLOOR TILE MASTIC - NON-ACM BY PLM

Item #	Material Description	Quantity	Units
92	Floor tile and associated mastic, sky blue with small white streaks, 12" x 12"	125	SF

Key:

LF = Linear Feet; SF = Square Feet, EA = Each; O.D. = Outer Diameter

ACM = Asbestos containing material (>1% asbestos)

PLM = Polarized Light Microscopy

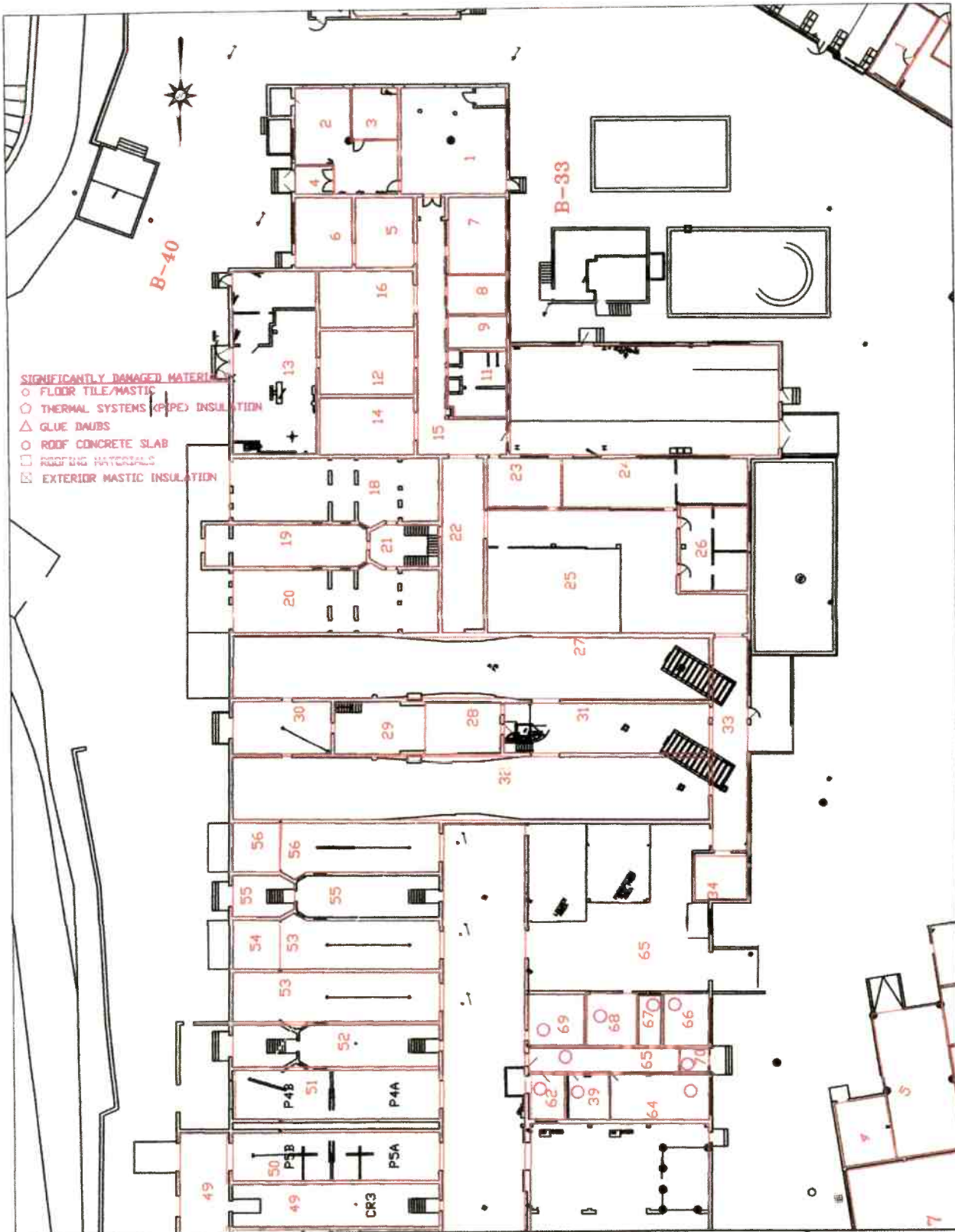
TABLE 3.22.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 34

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	75	LF
Roof	Roofing Material	1,388	SF
FD	Fire doors	3	EA


Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

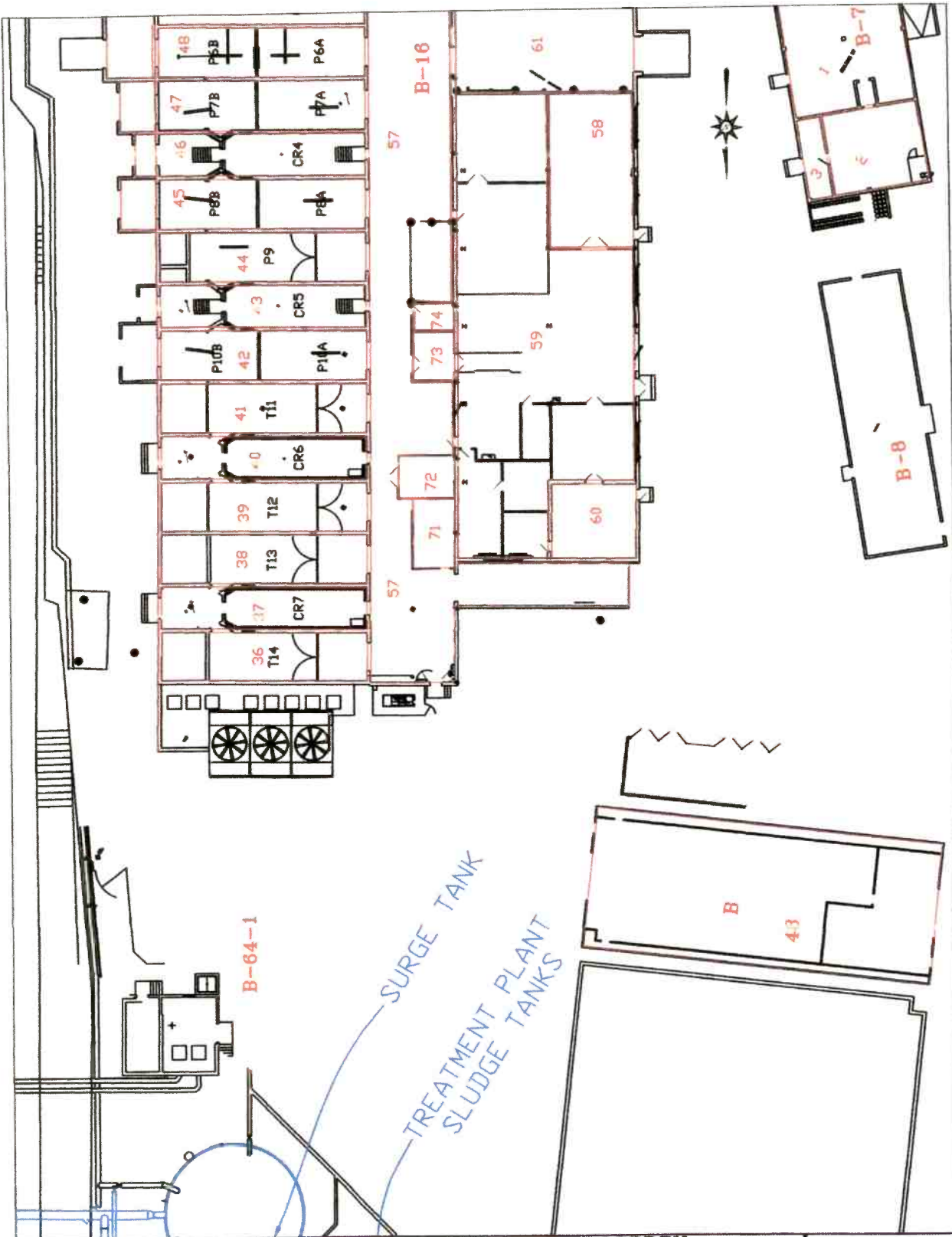


37 ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 16 FLOOR 1 - AREA A
 BUILDINGS 33, 40
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 16 FLOOR 1 - AREA B
 BUILDINGS 8, 48, 64-1
 STRATFORD ARMY ENGINE PLANT
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TABLE 3.40.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 64-2

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	100	LF
FD	Fire doors	8	EA

Key

LF = Linear Feet, SF = Square Feet, EA = Each, O.D. = Outer Diameter

TABLE 3.17.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 16

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
16	30	34	Pipe insulation, brown rolled paper and associated fittings, 6" O.D.	5	LF
16	31	34	Pipe insulation, brown rolled paper and associated fittings, 3-5" O.D.	400	LF
16	33	138	Pipe insulation, brown rolled paper and associated fittings, 8" O.D.	63	LF
16	33	34	Pipe insulation, brown rolled paper and associated fittings, 3-6" O.D.	900	LF
16	33	1	Pipe insulation, magnesium block and associated fittings, 3-6" O.D.	125	LF
16	35	34	Pipe insulation, brown rolled paper and associated fittings, 3-6" O.D.	158	LF
16	35	90	Pipe insulation and associated fittings, inaccessible, assume positive, varying diameters	320	LF
16	35	1	Pipe insulation, magnesium block and associated fittings, 3" O.D.	50	LF
16	40	34	Pipe insulation, brown rolled paper and associated fittings, 6" O.D.	26	LF
16	43	32	Transite wall board	1,200	SF
16	43	34	Pipe insulation, brown rolled paper and associated fittings, 4" O.D.	90	LF
16	55	32	Transite wall board	50	SF
16	55	34	Pipe insulation, brown rolled paper and associated fittings, 4" O.D.	72	LF
16	49	32	Transite wall board	72	SF
16	57	34	Pipe insulation, brown rolled paper and associated fittings, 3-6" O.D.	4,000	LF
16	59	140	Floor tile, green with white streaks, 9" x 9"	4,800	SF
16	60	135	Floor tile and associated mastic, grey-green with white flecks, 12" x 12"	504	SF
16	62	1	Pipe insulation, magnesium block and associated fittings, 3" O.D.	14	LF
16	63	1	Pipe insulation, magnesium block and associated fittings, 3" O.D.	12	LF
16	64	1	Pipe insulation, magnesium block and associated fittings, 3" O.D.	45	LF
16	65	1	Pipe insulation, magnesium block and associated fittings, 3" O.D.	14	LF
16	66	1	Pipe insulation, magnesium block and associated fittings, 3" O.D.	30	LF
16	68	34	Pipe insulation, brown rolled paper and associated fittings, 4" O.D.	15	LF
16	70	1	Pipe insulation, magnesium block and associated fittings, 3" O.D.	14	LF
16	70	5	Pipe fitting insulation on fiberglass insulated pipe	1	EA
16	---	FD	Fire Doors	50	EA
16	---	Roof	Roofing Material	68,928	SF
16	---	WC	Window Caulking	1,000	LF
16	OUT/CT	273	Black tar coating on piping elbows (<12" O.D)	36	EA

Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O D. = Outer Diameter
 OUT = Outdoor piping on cooling tower between Buildings 16 and 64-1

TABLE 3.17.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 16

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
16	1	18	Pipe insulation, Aircell and associated fittings, 3-4" O.D.	220	LF
16	5	90	Pipe insulation, suspected brown rolled paper and associated fittings, 2-4" O.D.	105	LF
16	5	1	Pipe insulation, magnesium block and associated fittings, 6" O.D.	25	LF
16	5	34	Pipe insulation, brown rolled paper and associated fittings, 6" O.D.	40	LF
16	6	90	Pipe insulation, suspected brown rolled paper and associated fittings, 2-3" O.D.	30	LF
16	6	34	Pipe insulation, brown rolled paper and associated fittings, 6" O.D.	20	LF
16	9	1	Pipe insulation, magnesium block and associated fittings, 4-6" O.D.	23	LF
16	11	1	Pipe insulation, magnesium block and associated fittings, 4-6" O.D.	150	LF
16	11	136	Pipe insulation, magnesium block and associated fittings, 8" O.D.	27	LF
16	11	34	Pipe insulation, brown rolled paper and associated fittings, 3" O.D.	34	LF
16	14	70	Vibration joint, white fabric/canvas (assumed positive)	1	EA
16	15	90	Pipe insulation and associated fittings, assumed positive, 3-6" O.D.	800	LF
16	15	90	Pipe insulation and associated fittings, assumed positive, 7" O.D.	150	LF
16	15	2	Magnesium block duct insulation	50	SF
16	15	70	Vibration joint, white fabric/canvas (assumed positive)	1	EA
16	16	34	Pipe insulation, brown rolled paper and associated fittings, 4" O.D.	30	LF
16	17	1	Pipe insulation, magnesium block and associated fittings, 4-6" O.D.	90	LF
16	17	70	Vibration joint, white fabric/canvas (assumed positive)	1	EA
16	19	1	Pipe insulation, magnesium block and associated fittings, 4-6" O.D.	190	LF
16	19	136	Pipe insulation, magnesium block and associated fittings, 8" O.D.	40	LF
16	19	32	Transite wall board	1,900	SF
16	20	10	Fabric strapping, white	5	LF
16	21	1	Pipe insulation, magnesium block and associated fittings, 3" O.D.	50	LF
16	21	34	Pipe insulation, brown rolled paper and associated fittings, 3-6" O.D.	150	LF
16	21	138	Pipe insulation, brown rolled paper and associated fittings, 8" O.D.	25	LF
16	22	1	Pipe insulation, magnesium block and associated fittings, 4-6" O.D.	120	LF
16	22	34	Pipe insulation, brown rolled paper and associated fittings, 3-6" O.D.	484	LF
16	22	138	Pipe insulation, brown rolled paper and associated fittings, 8" O.D.	12	LF
16	24	1	Pipe insulation, magnesium block and associated fittings, 4" O.D.	7	LF
16	25	1	Pipe insulation, magnesium block and associated fittings, 3-6" O.D.	600	LF
16	25	34	Pipe insulation, brown rolled paper and associated fittings, 3-6" O.D.	1,300	LF
16	25	138	Pipe insulation, brown rolled paper and associated fittings, 8" O.D.	200	LF
16	28	34	Pipe insulation, brown rolled paper and associated fittings, 3-5" O.D.	210	LF
16	29	34	Pipe insulation, brown rolled paper and associated fittings, 3-5" O.D.	60	LF

TABLE 3.21.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 33

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	200	LF
Roof	Roofing Material	586	SF
FD	Fire doors	4	EA

Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O D. = Outer Diameter

TABLE 3.26.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 40

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	6	LF
Roof	Roofing Material	390	SF
FD	Fire doors	2	EA

Key.

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

TABLE 3.39.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 64-1

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	40	LF
FD	Fire doors	2	EA

Key:


LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDINGS 7, 7A, 8, 9
 STRATFORD ARMY ENGINE PLANT
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**TABLE 3.9.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 7**

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
7	1	1	Pipe insulation and associated fittings, magnesium block, 5" O.D.	160	LF
7	1	5	Pipe fitting insulation on 3-6" O.D. fiberglass insulated pipe	12	EA
7	2	18	Pipe insulation and associated fittings, Aircell, 6" O D	24	LF
7	2	1	Pipe insulation and associated fittings, magnesium block, 3-6" O D.	80	LF
7	---	WC	Window Caulking	50	LF
7	---	Roof	Roofing Material	3,652	SF
7	---	FD	Fire doors	11	EA

Key:
 .F = Linear Feet, SF = Square Feet; EA = Each; O.D = Outer Diameter

TABLE 3.10.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 7A

Bid/Fir	Area #	Item #	Material Description	Quantity	Units
7A	1	1	Pipe insulation and associated fittings, magnesium block, 4-5" O.D.	30	LF
7A	1	5	Pipe fitting insulation on 6" O.D. fiberglass insulated pipe	6	EA
7A	2	1	Pipe insulation and associated fittings, magnesium block, 6" O.D.	24	LF
7A	3	1	Pipe insulation and associated fittings, magnesium block, 6" O.D.	18	LF
7A	3	143	Floor tile, mint green with white and green streaks, 9" x 9"	1,080	SF
7A	---	FD	Fire Doors	15	EA
7A	---	Roof	Roofing Material	3,050	SF
7A	---	WC	Window Caulking	50	LF

Key:

LF = Linear Feet; SF = Square Feet; EA = Each, O.D. = Outer Diameter

TABLE 3.12.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 9

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	250	LF
Roof	Roofing Material	12,754	SF
FD	Fire doors	2	EA

Key:
LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

TABLE 3.13.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 10

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
10	3	1	Pipe insulation and fittings, magnesium block, 2.5" O.D.	45	LF
10	6	7	Pipe fitting insulation, magnesium block, 15" O.D.	45	SF
10	6	56	Plaster, inaccessible upper wall - assumed positive	250	SF
10	7	5	Pipe fitting insulation, magnesium block, 4" O.D.	1	EA
10	7	56	Plaster, inaccessible upper wall - assumed positive	2,500	SF
10	9	34	Pipe insulation and fittings, brown rolled paper, 6" O.D.	17	LF
10	9	221	Pipe insulation and fittings, magnesium block, 1" O.D.	5	EA
10	9	276	Pipe fitting insulation, magnesium block, 10" O.D.	1	EA
10	10	1	Pipe insulation and fittings, magnesium block, 3" O.D.	18	LF
10	10	5	Pipe fitting insulation, magnesium block, 2" O.D.	9	EA
10	10	34	Pipe insulation and fittings, brown rolled paper, 6" O.D.	81	LF
10	10	34	Pipe insulation and fittings, brown rolled paper, 2.5" O.D.	12	LF
10	10	143	Floor tiles, mint green w/ white + dark green streaks, 9" x 9" - assumed positive	5	SF
10	10	193	Ceiling plaster & lathe	1,600	SF
10	10	260	White paper and associated mastic laid on inner ceiling	2,150	SF
10	10	276	Pipe fitting insulation, magnesium block, 12" O.D.	1	EA
10	10	302	Debris, piece of aircell insulation	3	SF
10	11	10	Fabric strapping around electrical feeds - assumed positive	6	LF
10	---	FD	Fire Doors	35	EA
10	---	Roof	Roofing Material	44,361	SF
10	---	WC	Window caulking	250	LF

Key:

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

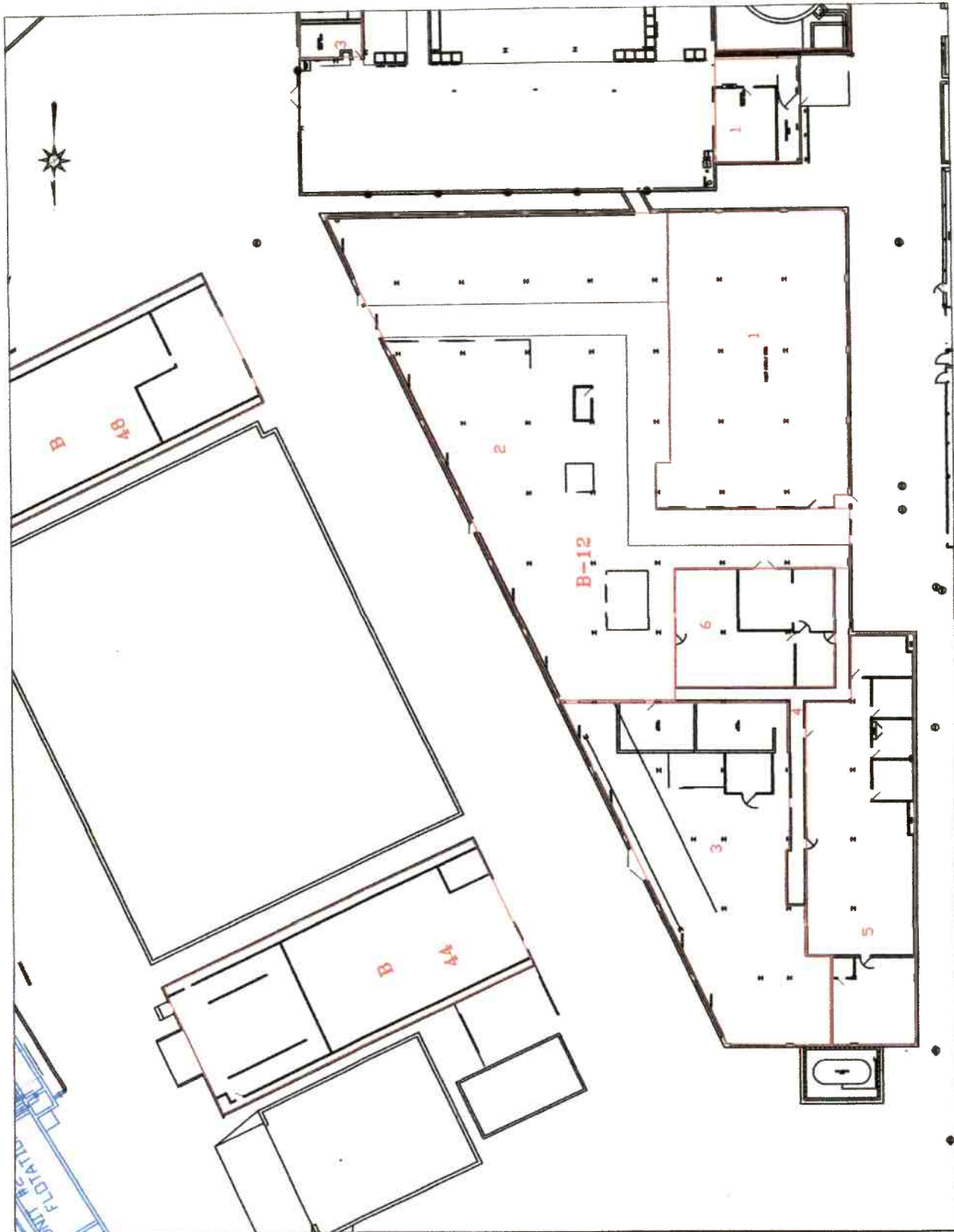
TABLE 3.11.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 8

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	50	LF
Roof	Roofing Material	1,869	SF
FD	Fire doors	5	EA

Key:


LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDINGS 12, 44, 48
 STRATFORD ARMY ENGINE PLANT
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TABLE 3.14.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 12

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
12	1	18	Pipe insulation and fittings, Aircell, 3-6" O.D.	142	LF
12	2	137	Pipe insulation and fittings, Aircell, 8" O.D.	17	LF
12	2	1	Pipe insulation and fittings, magnesium block, 3-5" O.D.	160	LF
12	2	18	Pipe insulation and fittings, Aircell, 3-6" O.D.	95	LF
12	3	1	Pipe insulation and fittings, magnesium block, 5" O.D.	80	LF
12	4	1	Pipe insulation and fittings, magnesium block, 5" O.D.	5	LF
12	4	136	Pipe insulation and fittings, magnesium block, 8" O.D.	30	LF
12	4	11	Pipe insulation and fittings, magnesium block, 12" O.D.	4	LF
12	5	11	Pipe insulation and fittings, magnesium block, 12" O.D.	4	LF
12	5	1	Pipe insulation and fittings, magnesium block, 5-6" O.D.	50	LF
12	5	136	Pipe insulation and fittings, magnesium block, 8" O.D.	65	LF
12	6	136	Pipe insulation and fittings, magnesium block, 8" O.D.	9	LF
12	6	137	Pipe insulation and fittings, Aircell, 8" O.D.	25	LF
12	6	18	Pipe insulation and fittings, Aircell, 4" O.D.	5	LF
12	6	11	Pipe insulation and fittings, magnesium block, 12" O.D.	10	LF
12	---	FD	Fire Doors	22	EA
12	---	Roof	Roofing Material	24,911	SF
12	---	WC	Window Caulking	1,500	LF

Key.

LF = Linear Feet, SF = Square Feet; EA = Each; O.D. = Outer Diameter

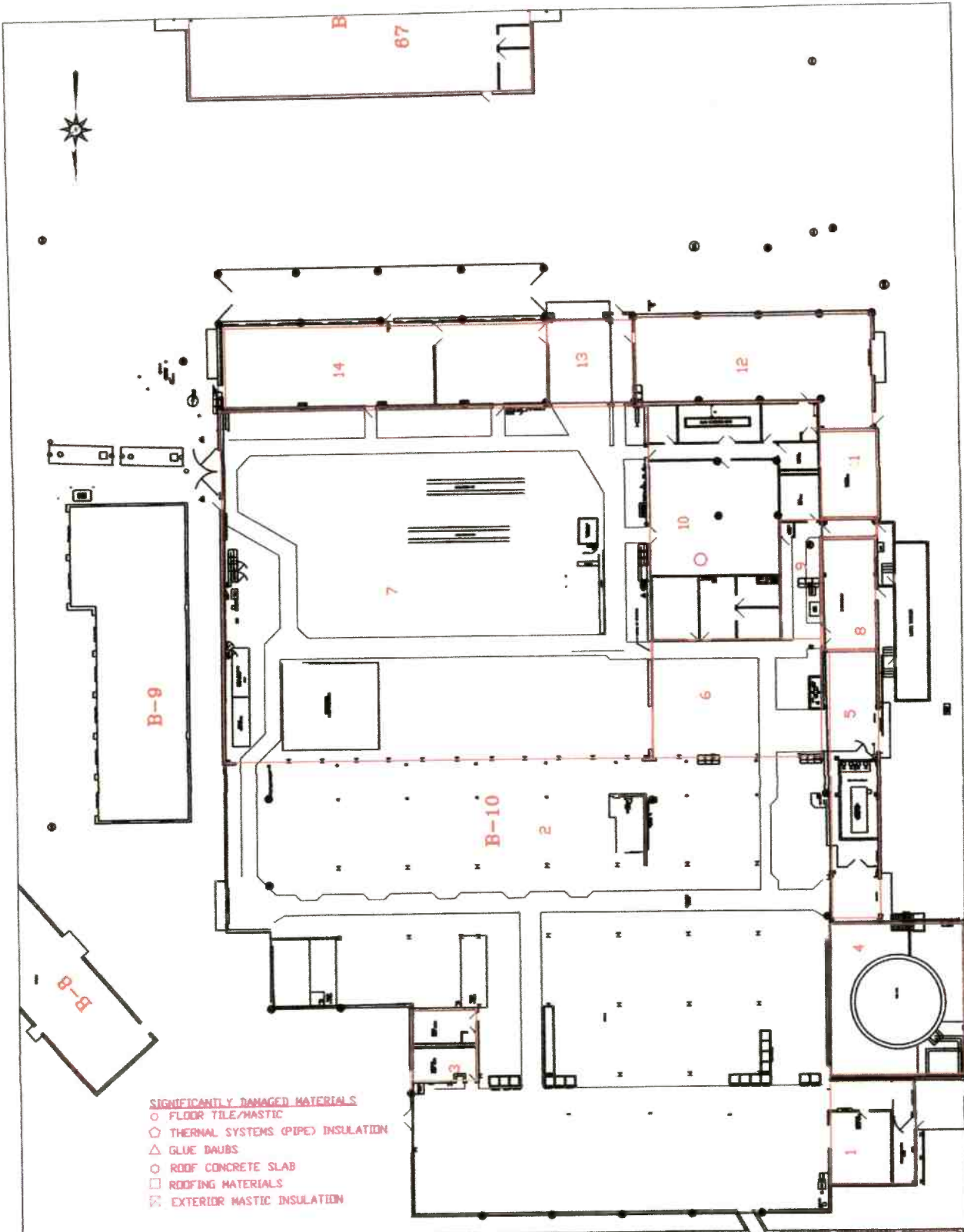
TABLE 3.30.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 44

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
273	Black tar coating on elbow (just outside wall of tank farm)	1	EA
WC	Window caulking	50	LF
FD	Fire doors	2	EA

Key:


LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter



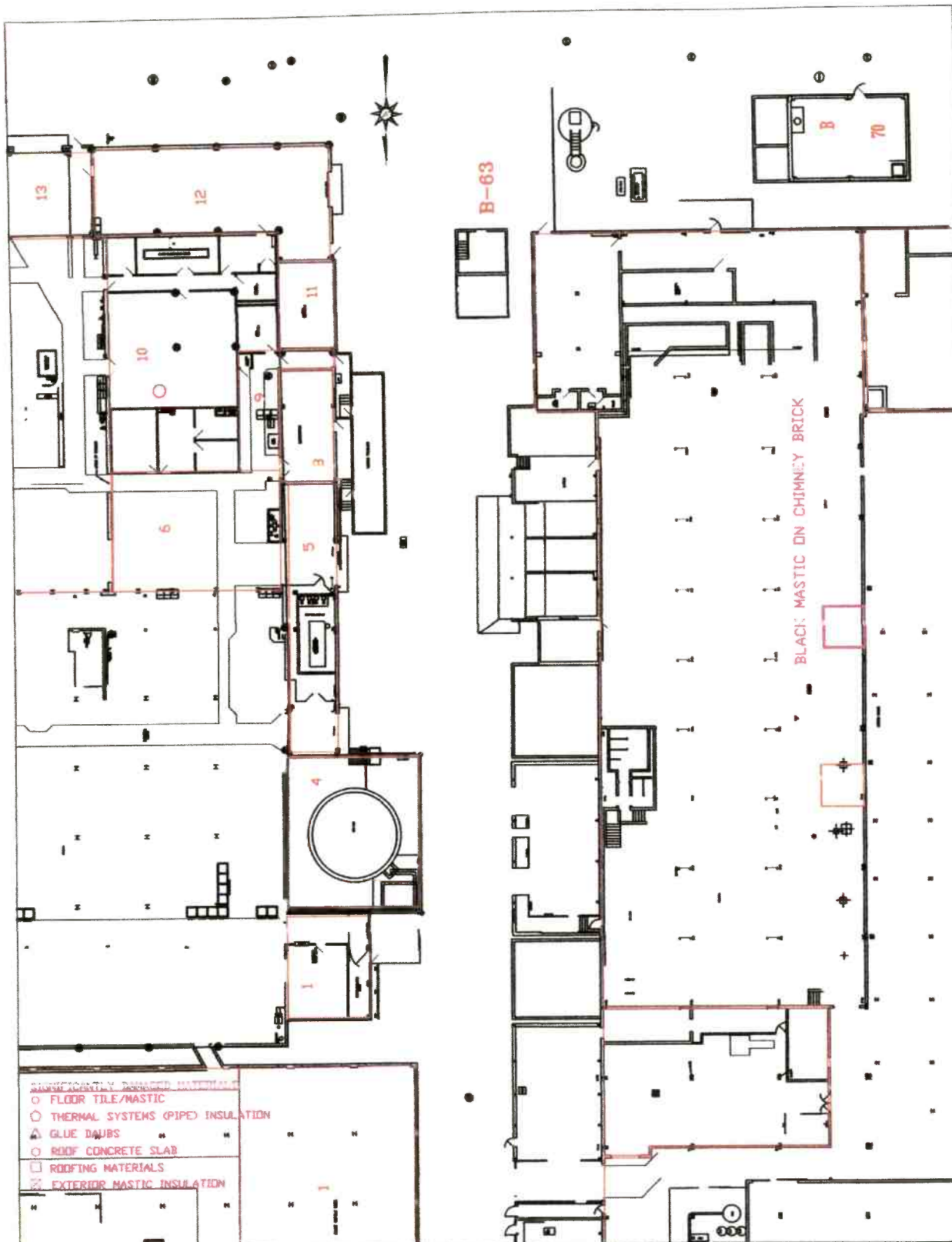
41

ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 10
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- UNIDENTIFIED HAZARDOUS MATERIALS**
- FLOOR TILE/MASTIC
 - △ THERMAL SYSTEMS (PIPE) INSULATION
 - GLUE JOINTS
 - ROOF CONCRETE SLAB
 - ROOFING MATERIALS
 - ⊠ EXTERIOR MASTIC INSULATION

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ASBESTOS SURVEY FEBRUARY 2013
 BUILDINGS 63, 70
 STRATFORD ARMY ENGINE PLANT
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TABLE 3.38.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 63

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	100	LF
Roof	Roofing Material	194	SF
FD	Fire doors	2	EA

Key:

LF = Linear Feet, SF = Square Feet; EA = Each; O.D. = Outer Diameter

TABLE 3.45.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 70

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	50	LF
FD	Fire doors	1	EA

Key:

LF = Linear Feet, SF = Square Feet; EA = Each; O.D. = Outer Diameter



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDINGS 13, 15, 52, 68
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

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**TABLE 3.15.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 13**

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
13	1	18	Pipe insulation and associated fittings, Aircell, 3" O.D.	30	LF
13	2	90	Pipe insulation and associated fittings, assumed positive, inaccessible (above ceiling)	100	LF
13	4	18	Pipe insulation and associated fittings, Aircell, 3" O.D.	1	LF
13	4	34	Pipe insulation and associated fittings, brown rolled paper, 3" O D	60	LF
13	---	WC	Window Caulking	75	LF
13	---	Roof	Roofing Material	7,803	SF
13	---	FD	Fire doors	7	EA

Key.

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

TABLE 3.16.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 15

Bld/Fir	Area #	Item #	Material Description	Quantity	Units
15	1	18	Pipe insulation and associated fittings, Aircell, 2-6" O.D.	750	LF
15	1	5	Pipe fitting insulation on 6" O.D. fiberglass insulated pipe (assumed positive, inaccessible)	10	EA
15	2	145	Floor tile, black with tiny white specks, 12" x 12"	120	SF
15	2	146*	Floor tile and associated black mastic, mustard brown, 12" x 12"	120	SF
15	2	18	Pipe insulation and associated fittings, Aircell, 2-4" O.D.	40	LF
15	3	18	Pipe insulation and associated fittings, Aircell, 2-4" O.D.	24	LF
15	---	Roof	Roofing Material	12,288	SF
15	---	WC	Window Caulking	75	LF
15	---	FD	Fire doors	17	EA

Key

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

* PLM results for floor tile are negative, however, since mastic is positive and separation of these two materials is not feasible, floor tile has been included as ACM.

TABLE 3.32.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 52

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
1	Pipe insulation and associated fittings, magnesium block, 4-5" O.D.	140	LF
WC	Window Caulking	300	LF
FD	Fire doors	2	EA

Key:

LF = Linear Feet, SF = Square Feet, EA = Each; O.D. = Outer Diameter

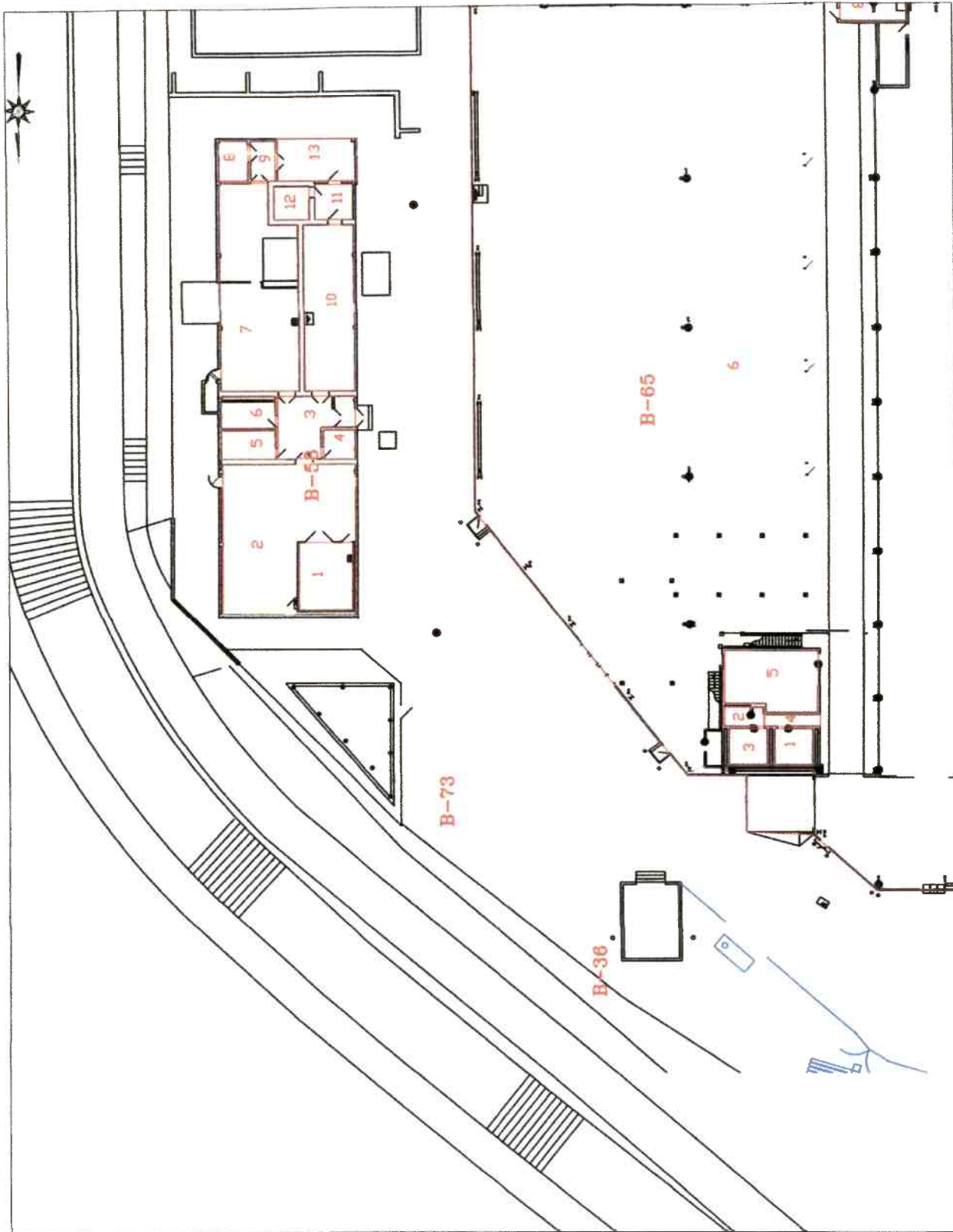
TABLE 3.43.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 68

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
FD	Fire doors	2	EA

Key:

LF = Linear Feet; SF = Square Feet; EA = Each, O.D. = Outer Diameter



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDINGS 36, 58, 73
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT



ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
 Clinton, CT 06413
 Phone (860) 669-8651
 Fax (860) 664-3751

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DATE: 02.12.13
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TABLE 3.25.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 38

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	6	LF
Roof	Roofing Material	390	SF
FD	Fire doors	2	EA

Key.

LF = Linear Feet, SF = Square Feet; EA = Each; O.D. = Outer Diameter

TABLE 3.24.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 37

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	6	LF
Roof	Roofing Material	390	SF
FD	Fire doors	2	EA

Key.

LF = Linear Feet; SF = Square Feet; EA = Each; O D. = Outer Diameter.

TABLE 3.34.2
INVENTORY OF ASBESTOS CONTAINING MATERIALS
BUILDING 58

Bld/Flr	Area #	Item #	Material Description	Quantity	Units
58	1	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	312	SF
58	2	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	1,193	SF
58	2	113*	Floor tile and associated black mastic, brown with black and white streaks, 12" x 12"	132	SF
58	2	5	Pipe fitting insulation on fiberglass pipes	10	EA
58	3	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	251	SF
58	3	5	Pipe fitting insulation on fiberglass pipes	20	EA
58	4	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	75	SF
58	4	5	Pipe fitting insulation on fiberglass pipes	13	EA
58	5	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	126	SF
58	5	5	Pipe fitting insulation on fiberglass pipes	21	EA
58	6	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	120	SF
58	6	5	Pipe fitting insulation on fiberglass pipes	5	EA
58	7	5	Pipe fitting insulation on fiberglass pipes	40	EA
58	7	1	Pipe insulation and associated fittings, magnesium block, 4-6" O.D.	90	LF
58	7	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	507	SF
58	8	5	Pipe fitting insulation on fiberglass pipes	21	EA
58	9	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	80	SF
58	9	1	Pipe insulation and associated fittings, magnesium block, 4-6" O.D.	34	LF
58	10	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	685	SF
58	11	124	Floor tile and associated black mastic, light green with white and olive chips, 12" x 12"	115	SF
58	---	Roof	Roofing Material	5,447	SF
58	---	WC	Window Caulking	50	LF
58	---	FD	Fire doors	26	EA

Key.

LF = Linear Feet; SF = Square Feet; EA = Each; O.D. = Outer Diameter

* PLM results for floor tile are negative, however, since mastic is positive and separation of these two materials is not feasible, floor tile has been included as ACM

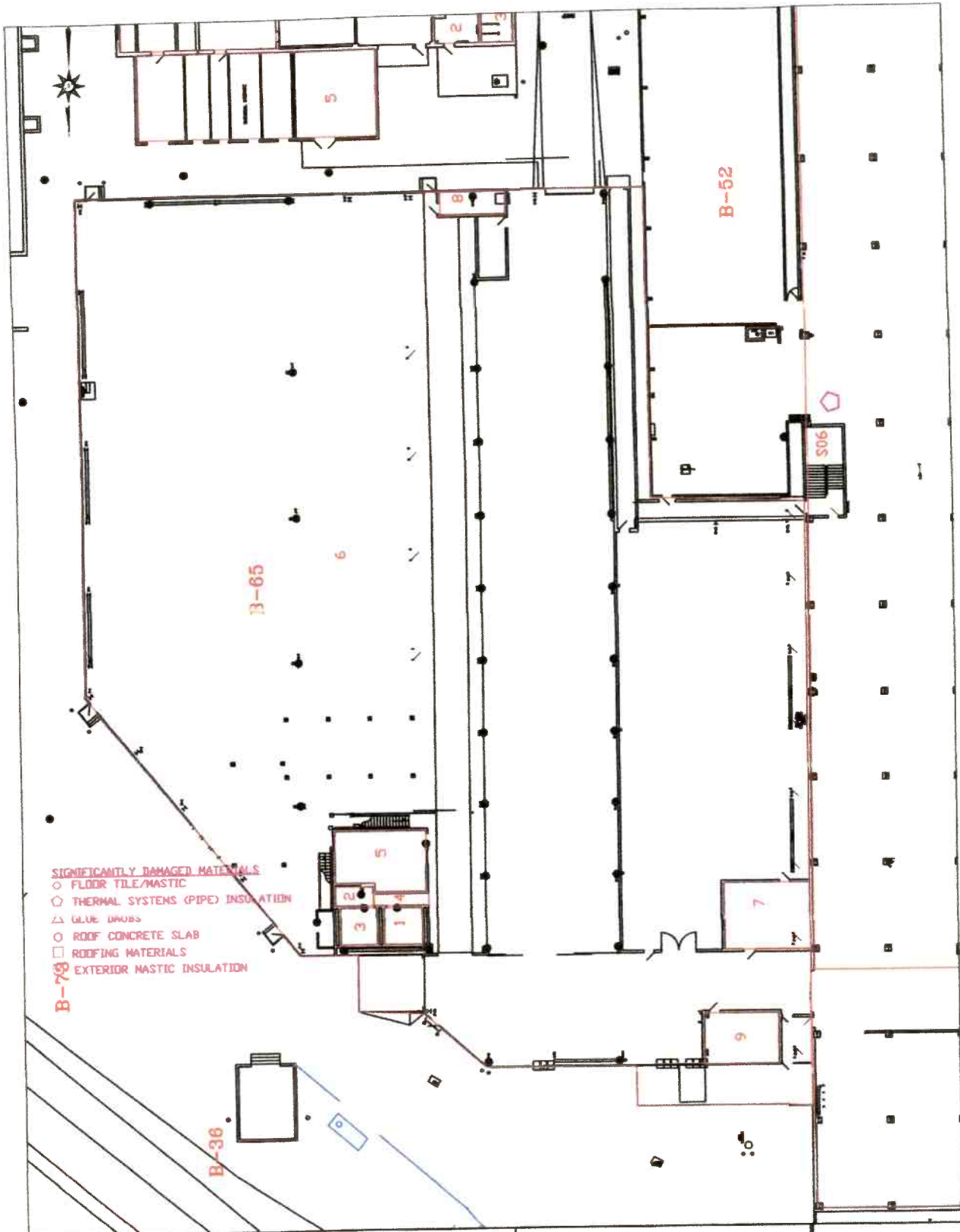
TABLE 3.23.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 36

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	6	LF
Roof	Roofing Material	390	SF
FD	Fire doors	2	EA

Key

LF = Linear Feet; SF = Square Feet; EA = Each, O.D. = Outer Diameter



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 65
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

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TABLE 3.41.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 65

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	200	LF
FD	Fire doors	18	EA

TOTAL ESTIMATED QUANTITIES OF FLOOR TILE AND FLOOR TILE MASTIC - NON-ACM BY PLM

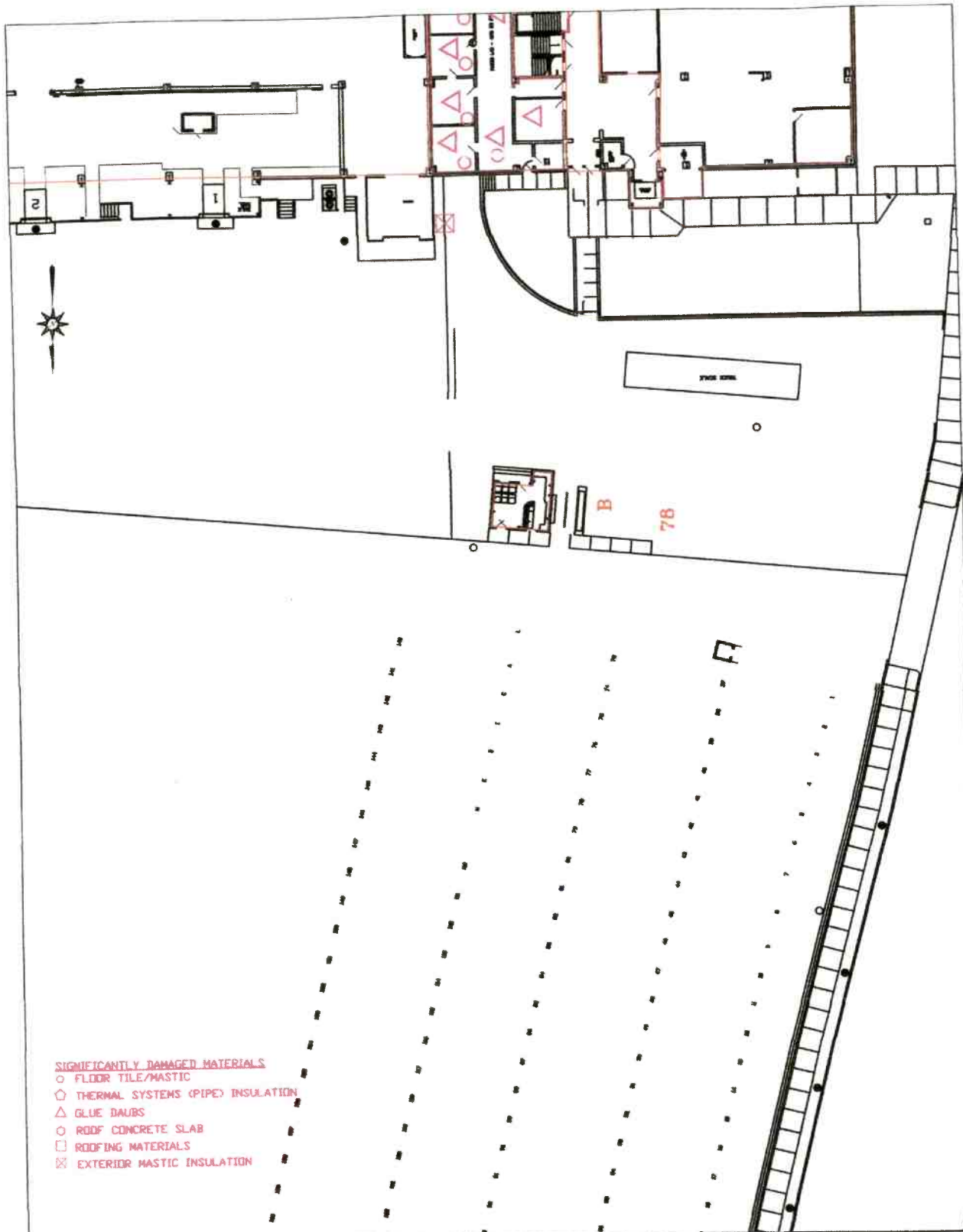
Item #	Material Description	Quantity	Units
114	Floor tile and associated mastic, beige with small black and white specks, 12" x 12" (Area 5)	420	SF

Key.

LF = Linear Feet; SF = Square Feet, EA = Each; O.D. = Outer Diameter

ACM = Asbestos containing material (>1% asbestos)

PLM = Polarized Light Microscopy



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ASBESTOS SURVEY FEBRUARY 2013
 BUILDING 80
 STRATFORD ARMY ENGINE PLANT
 STRATFORD, CT

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TABLE 3.53.1
TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS
BUILDING 78

TOTAL ESTIMATED QUANTITIES OF ASBESTOS CONTAINING MATERIALS

Item #	Material Description	Quantity	Units
WC	Window caulking	150	LF
Roof	Roofing Material	271	SF
FD	Fire doors	1	EA

TOTAL ESTIMATED QUANTITIES OF FLOOR TILE AND FLOOR TILE MASTIC - NON-ACM BY PLM

Item #	Material Description	Quantity	Units
13	Floor tile and associated black mastic, tan with tan and white chips, 12" x 12"	271	SF

Key.

LF = Linear Feet, SF = Square Feet, EA = Each, O.D. = Outer Diameter

ACM = Asbestos containing material (>1% asbestos)

PLM = Polarized Light Microscopy