

Table 5 (continued)
Hazardous Material Survey
Analytical Results

Media	Sample ID																		
	11-16-MISC															12-2-MISC		12-13-MISC	
	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	
Volatile Organic Substances (VOCs) (ppb)																			
1,1-Dichloroethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Dichloroethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	NA
Trichloroethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	BDL	BDL	NA
Freon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	BDL	BDL	NA
Total Solvents	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	NA
Metals (ppm)																			
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (ppm)																			
PCBs	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	ND	BDL	BDL	BDL
Semivolatile Organic Compounds (SVOCs) (ppb)																			
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethyl hexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (TPH) (ppm)																			
TPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (no units)																			
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Notes: ppb - means parts per billion ppm - means parts per million BDL - means below detection limit NA - means not analyzed																			
Bolted and shaded values indicate regulatory exceedance * - means aqueous sample; metal results reflect Total metals analysis as opposed to TCLP results as indicated ** - means collected during previous site investigation																			
																		Prepared by: JLS	
																		Checked by: JW & MP	

**Table 6
Hazardous Material Summary**

Material	Waste Type	Quantity Estimates
<i>PCB-Containing Equipment</i>		
Transformer G	PCB-contaminated (<50 ppm PCB transformer oil)	10,000 gallons
Transformer G LTC Compartment	Non-PCB (<1 ppm PCB transformer oil)	360 Gallons
Two Transformer G Circuit Breakers	Non-PCB (<1 ppm PCB transformer oil)	750 gallons
Transformers 1, 2, and 3	PCB-contaminated (<50 ppm PCB transformer oil)	1,830 gallons
Transformers 37A and 7A	Non-PCB (<1 ppm PCB transformer oil)	450 gallons
Transformers 30B and 7B	TSCA-Regulated (>550 ppm PCB transformer oil)	1,400 gallons
Transformer 38A and 8A	Non-PCB (<1 ppm PCB transformer oil)	800 gallons
Transformer 8B	TSCA-Regulated (>550 ppm PCB transformer oil)	700 gallons
Three Cathodic Rectifier Units; Screen House No. 3	TSCA-Regulated (50-500 ppm PCB transformer oil)	300 gallons
Two Cathodic Rectifier Units; Screen House No. 4	TSCA-Regulated (50-500 ppm PCB transformer oil)	200 gallons
Six Boiler #13 and #14 Precipitator Transformers/ Rectifiers	PCB-Contaminated (<50 ppm PCB transformer oil)	2,200 gallons
Wall-Mounted Transformer in New Reactor Room	TSCA-Regulated (>550 ppm PCB transformer oil)	50 gallons
Potential Transformers	TSCA-Regulated (>550 ppm PCB transformer oil)	400 gallons
Capacitors	TSCA-Regulated (>550 ppm PCB oil)	300 gallons
Oil Bath Circuit Breakers	TSCA-Regulated (>550 ppm PCB oil)	3,000 gallons
<i>Other Equipment/Materials</i>		
Sludge From Sodium Hypochlorite Tanks	Regulated or hazardous waste (corrosive)	100 gallons
Fire Extinguishers	Regulated or Hazardous Waste (depends on type of extinguisher)	100 units
Mercury-Containing Switches, Reservoirs, Thermometers	Hazardous Waste	400 pounds
Fluorescent Light ballasts	Hazardous Waste	3,000 pounds

Table 6 (continued)
Hazardous Material Summary

Material	Waste Type	Quantity Estimates
<i>Other Equipment/Materials (continued)</i>		
Lead-Acid Batteries	Hazardous Waste	750 pounds
Gas Cylinder (include carbon dioxide, oxygen, nitrogen, hydrogen, acetylene, and unlabeled cylinders)	Connecticut Regulated or Hazardous Waste (depending on contents)	500 pounds
Fuel Oil (from piping)	Connecticut Regulated Waste	10,000 gallons
Miscellaneous Containerized Oils/Chemicals	Connecticut Regulated Waste or Hazardous Waste (depending on contents)	1,500 gallons
PCB-Impacted Building Materials	TSCA-Regulated (>50 ppm PCBs)	2,500 tons
PCB-Impacted Building Materials	PCB-Contaminated (1-50 ppm PCBs)	6,500 tons
Floor Drain Sediments	TSCA-Regulated (>50 ppm PCBs)	4 tons
Floor Drain Sediments	PCB-Contaminated (1-50 ppm PCBs)	30 tons
Floor Drain/Tunnel Sediments	Connecticut Regulated Waste	30 tons
Miscellaneous Sediments/Sludges	Connecticut Regulated Waste	30 tons
Lube Oil	Connecticut Regulated Waste	15,000 gallons
Miscellaneous Oily Sludge/Sediment	PCB-Contaminated (1-50 ppm PCBs)	10,000 gallons
Miscellaneous Liquids	PCB-Contaminated (1-50 ppm PCBs)	20,000 gallons
Miscellaneous Liquids	Connecticut Regulated Waste	10,000 gallons
Skip Hoist Sediment	Hazardous Waste	1 tons

Note:

Quantities listed are approximate, based on a review of applicable plans and the site inspection, and are for cost estimating purposes only. Actual quantities requiring removal may vary.

HWPROCBLOTLGServiceTABLE6.WPD

4th Fl DEC 20 1999
60 cells
@ ≥ 50 lb/cell

HP
60 cells c. 40 ± lb/cell
⇒ ≥ 6000 lb

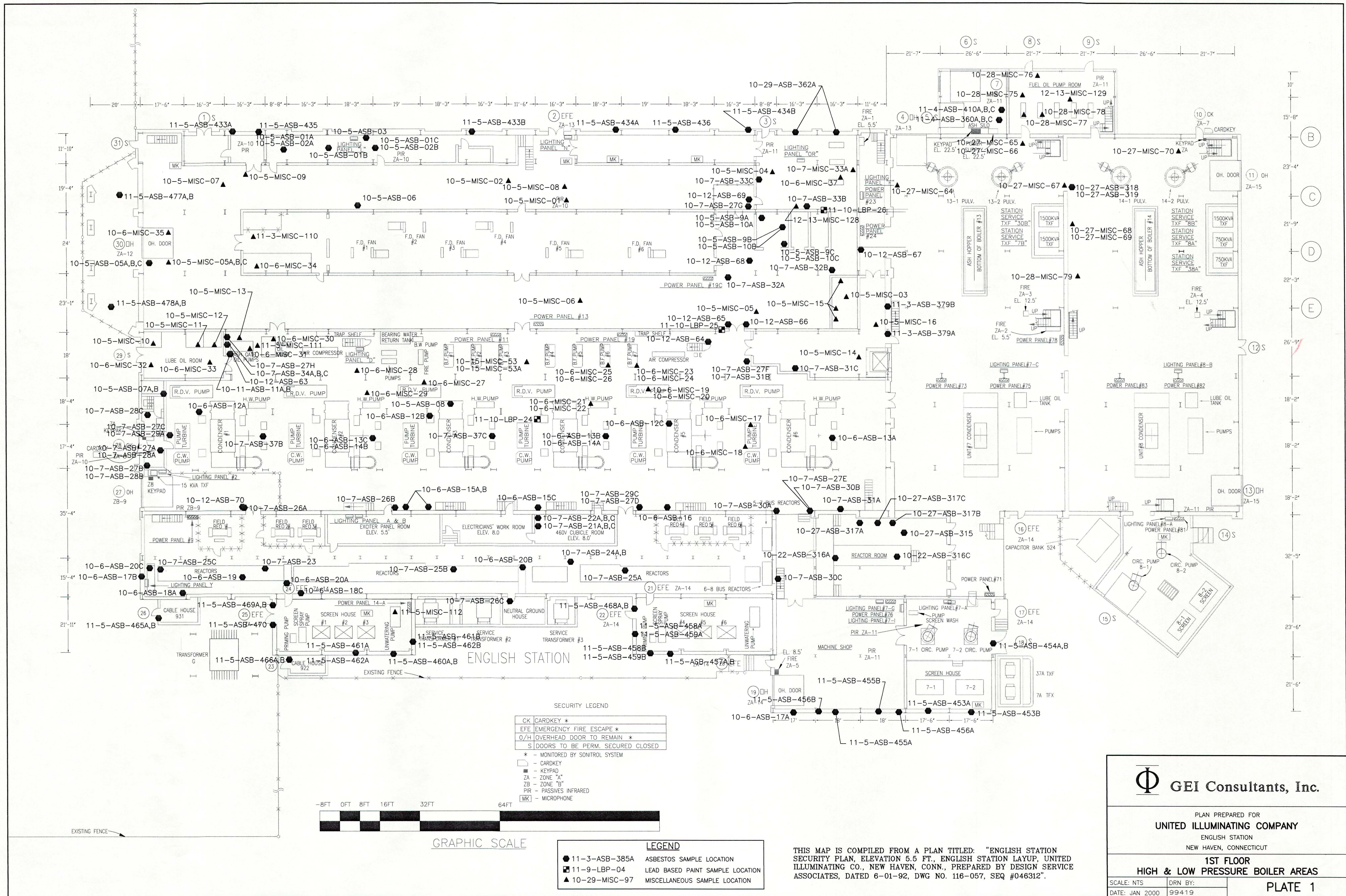
Table 7
English Station
Lead-Based Paint Analytical Results Summary

Sample ID	Sample Location	Sample Material Description	TCLP Lead Concentrations (ppm)
<i>Low Pressure Boilers/Turbine Areas</i>			
11-10-LBP-06	Low Pressure Turbine; 2 nd floor office and bus room No. 1; wall	Red (12"x 5") brick block walls; off-white paint	0.056
11-10-LBP-07	Low Pressure Turbine; 2 nd floor bus room No. 1; wall	Gray concrete walls; dark gray paint	BDL
11-10-LBP-08	Low Pressure Turbine; 2 nd floor; north office area; wall	Red (8" x 2 ½") brick walls; off-white paint	0.063
11-10-LBP-09	Low Pressure Turbine area; 2 nd floor; north common hall for buses No. 1 and 2; wall	Red (8" x 2 ½") brick walls; dark gray paint	0.014
11-10-LBP-10	Low Pressure Switchboard Room; 4 th floor; office area; wall	White (12½"x 5") concrete block walls; green paint	0.649
11-10-LBP-11	Low Pressure Switchboard Room; 4 th floor; office area; wall	Large (12"x 12") brick block walls; green paint	0.666
11-10-LBP-12	Low Pressure Switchboard Room; 4 th floor; hallway to locker room; wall	Rough concrete walls; green paint	BDL
11-10-LBP-13	Low Pressure Switchboard Room; 4 th floor; east wall toward turbine room; wall	Red (4¼"x 12") brick block walls; green paint	12.0
11-10-LBP-14	Low Pressure Switchboard Room; 4 th floor; outside of office area	Light gray concrete flooring (throughout); gray paint	BDL
11-10-LBP-15	Low Pressure Switchboard Room; 4 th floor; outside of office area; wall	Smooth concrete walls; green paint; Pyrobar wall with surface coat	0.174
11-10-LBP-16	Low Pressure Switchboard Room; 4 th floor; south of generator switchboard room; wall	Gray (15"x 7½") cinder block walls; green paint	BDL
11-10-LBP-17	Low Pressure Switchboard Room; 4 th floor; southwest office	Red (8" x 2½") brick walls; green paint	0.460
11-10-LBP-18	Low Pressure Turbine; 2 nd floor; electrical repair room; south wall	Beige (8"x 2½") brick walls; green paint	BDL
11-10-LBP-19	Low Pressure Boilers; Area A; labor; 2 nd floor; south wall	Rough concrete walls; green paint	0.418
11-10-LBP-20	Low Pressure Boilers; Area A; 2 nd floor; adjacent to No. 4 boiler; east wall	Red (12"x 5") brick block walls; silver paint	BDL
11-10-LBP-21	Low Pressure Boilers; Area A; 2 nd floor; east wall; adjacent to No. 4 boiler	Red (8"x 2½") brick walls; green paint; silver underneath	0.007
11-10-LBP-22	Low Pressure Boilers; Area 3; 2 nd floor; west wall; in between boilers 10 and 8	Red (12"x 5") brick block walls; silver paint	0.027
11-10-LBP-23	Low Pressure Boilers; Area B; 2 nd floor; east wall; adjacent to No. 7 boiler; wall	Red (8" x 2 ½") brick wall; green paint; silver paint underneath	0.474
11-10-LBP-24	Low Pressure Boilers; 1 st floor; condenser unit #4 Pedestal (support column)	Light gray concrete; dark gray paint; white paint underneath	BDL
11-10-LBP-25	Low Pressure Boilers; Area B; condenser; 1 st floor area at border with machine shop; wall	Red (12"x 5") brick block wall; black paint	0.049
11-10-LBP-26	Low Pressure Boilers; 1 st floor; fuel oil pump and heater room; wall	Light gray (15½" x 7 ½") cinder block wall; gray paint	0.071
11-18-LBP-38	Low Pressure Conduit Room; 3 rd Floor; wall	Red (8" x 2 ½") brick walls; dark green paint	1.49
12-2-LBP-39 (resample of LBP-13)	Low Pressure Switchboard Room; 4 th floor; east wall toward turbine room; wall	Red (4¼"x 12") brick block walls; green paint	4.96

Table 7 (continued)
English Station
Lead-Based Paint Analytical Results Summary

Sample ID	Sample Location	Sample Material Description	TCLP Lead Concentrations (ppm)
High Pressure Boilers/Turbine Area			
11-9-LBP-01	High Pressure Boiler #14; 3 rd floor mezzanine; interior air cleaning room; walls	Concrete from floor; red paint	BDL
11-9-LBP-02	High Pressure Boiler No. 13; 2 nd floor; former ash control room; walls	Red (8" x 2 1/4") brick walls; off-white paint	0.008
11-9-LBP-03	High Pressure Boiler No. 13; 2 nd floor; gage board room; wall	Gray (15 1/2" x 7 1/2") cinder block walls; light green paint	BDL
11-9-LBP-04	High Pressure Boiler No. 13/Condenser Area; 1 st floor; wall bordering Low Pressure Boiler condensers	Gray concrete walls; gray paint	BDL
11-9-LBP-05	Screen house No. 4; 1 st floor	Red (8" x 2 1/2") brick walls; dark gray paint	0.491
11-10-LBP-27	High Pressure Boilers; 1 st floor; fuel oil pump room; south wall	Red (8" x 2 1/2") brick walls; white paint	BDL
Station B			
11-17-LBP-31	Station B; 1 st floor; south wall	Red (8 1/2" x 2 1/2") brick walls; green paint	0.010
11-17-LBP-32	Station B; 1 st floor; south exterior office wall inside warehouse	Tan (12" x 12") brick block walls; green paint	BDL
11-17-LBP-33	Station B; 2nd floor; north wall	Red (8 1/2" x 2 1/2") brick walls; light green paint	8.34
11-17-LBP-34	Station B; 2nd floor; northeast side; ceiling (wood)	Wood ceiling; white paint	143
11-17-LBP-35	Station B; 1 st floor; east office areas; walls	Red (8 1/2" x 2 1/2") brick walls; off white painted	0.201
11-17-LBP-36	Station B; 1 st floor; east office areas; walls	Grey (7 1/2" x 15 1/2") cinder block walls; off white paint	BDL
11-17-LBP-37	Station B; 1 st floor; east office areas; walls	Tan (12" x 12") brick block walls; off white paint	0.512
12-2-LBP-40 (resample of LBP-33)	Station B; 2nd floor; north wall	Red (8 1/2" x 2 1/2") brick walls; light green paint	0.019
12-2-LBP-41 (resample of LBP-34)	Station B; 2nd floor; northeast side; ceiling (wood)	Wood ceiling; white paint	1.12
Secondary Buildings			
11-12-LBP-28	Conference/Employee Building Room; concrete floor	Concrete floor; gray paint	BDL
11-12-LBP-29	Conference/Employee Building Room; walls	Black/dark gray (15 1/2" x 7 1/2") cinder block walls; gray & white paint	0.106
11-12-LBP-30	Contractors building; walls	Composite on interior material; black/dark gray (15 1/2" x 7 1/2") cinder block walls; green, peach & light green paint	BDL
12-2-LBP-42	Station B; 2 nd floor; northwest side; ceiling (wood)	Wood ceiling; white paint	0.470
Notes: Bolded and shaded values indicate an exceedance of regulatory criteria. ppm - means parts per million			

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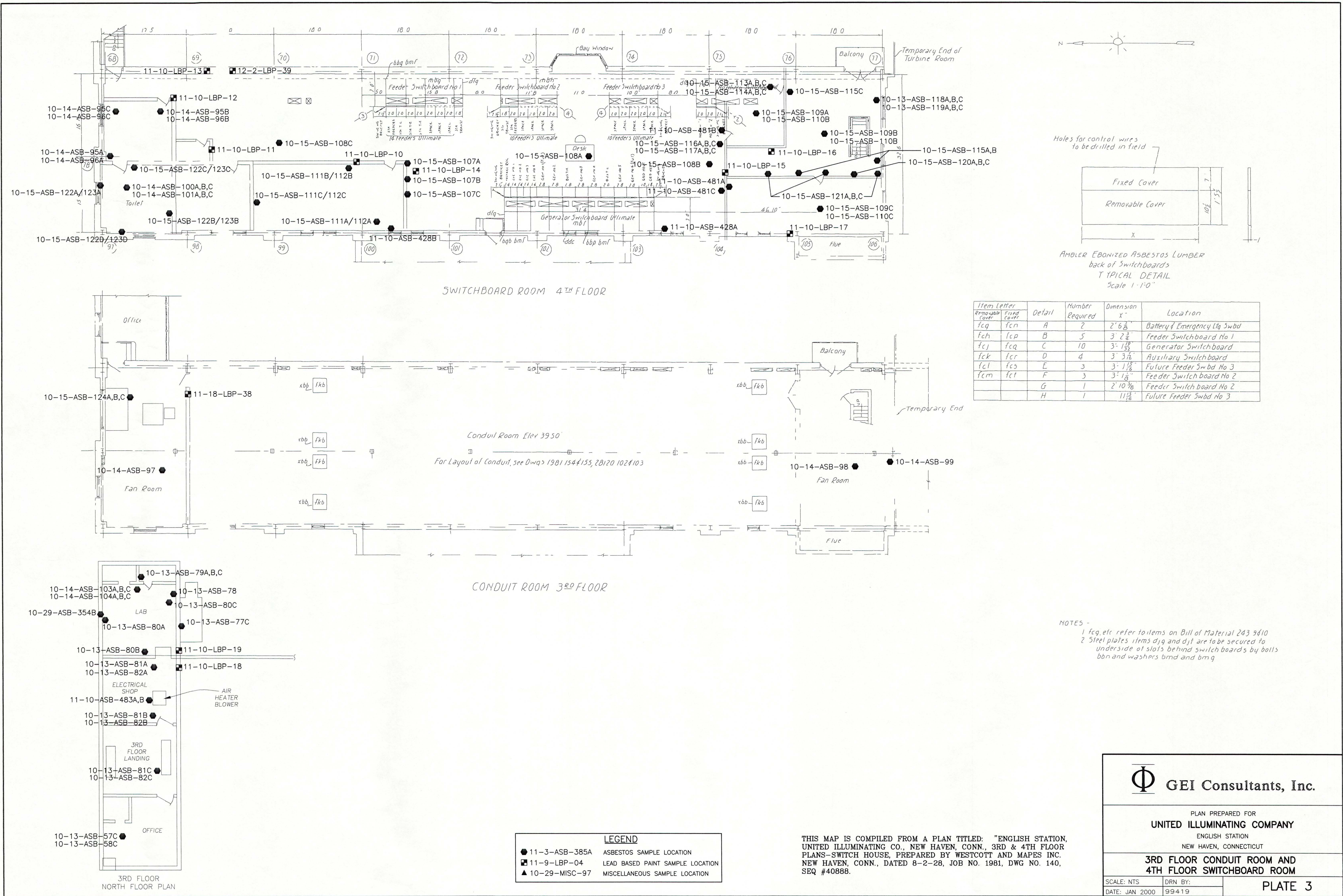


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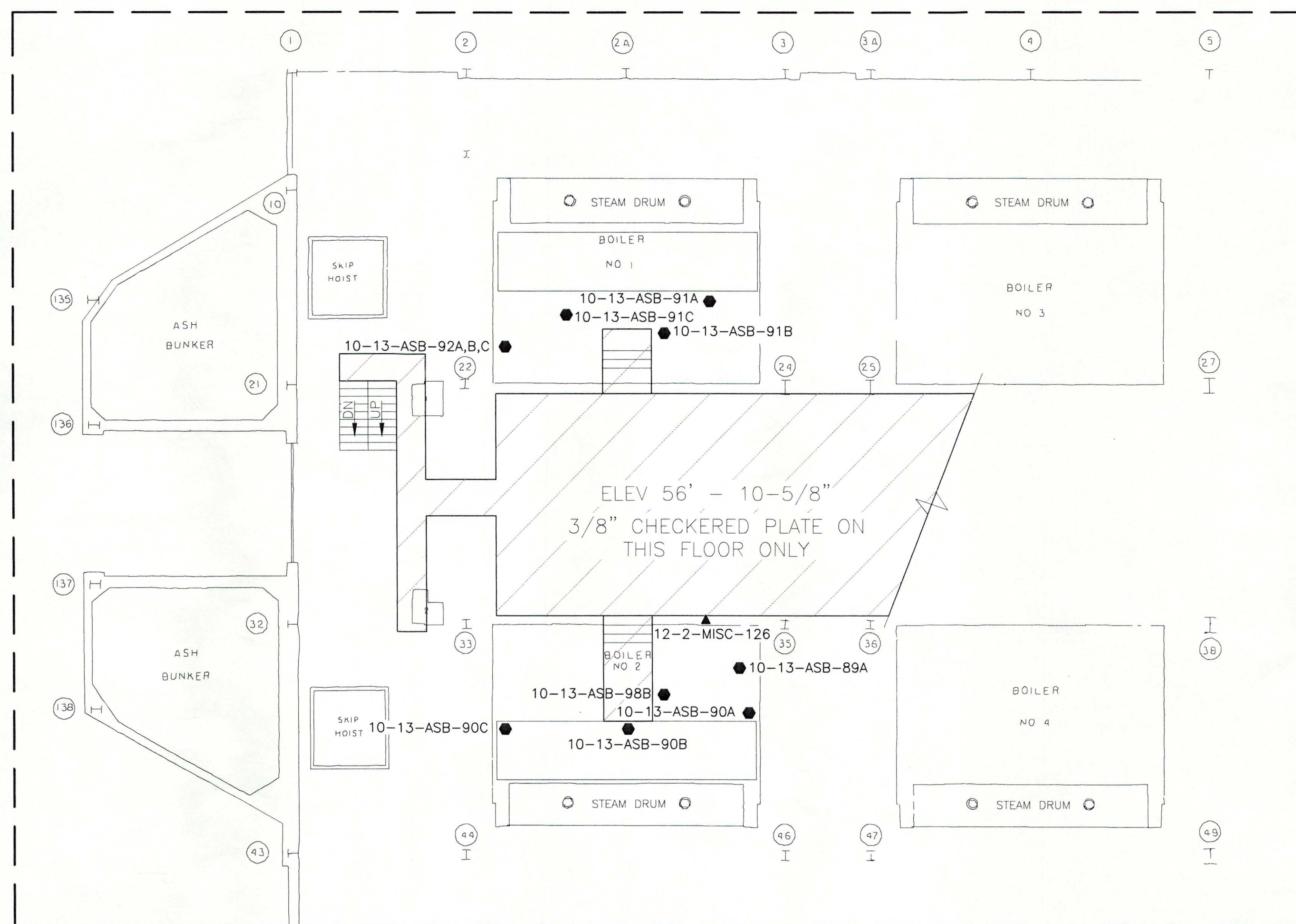
PLAN PREPARED FOR
UNITED ILLUMINATING COMPANY
 ENGLISH STATION
 NEW HAVEN, CONNECTICUT

**1ST FLOOR
 HIGH & LOW PRESSURE BOILER AREAS**

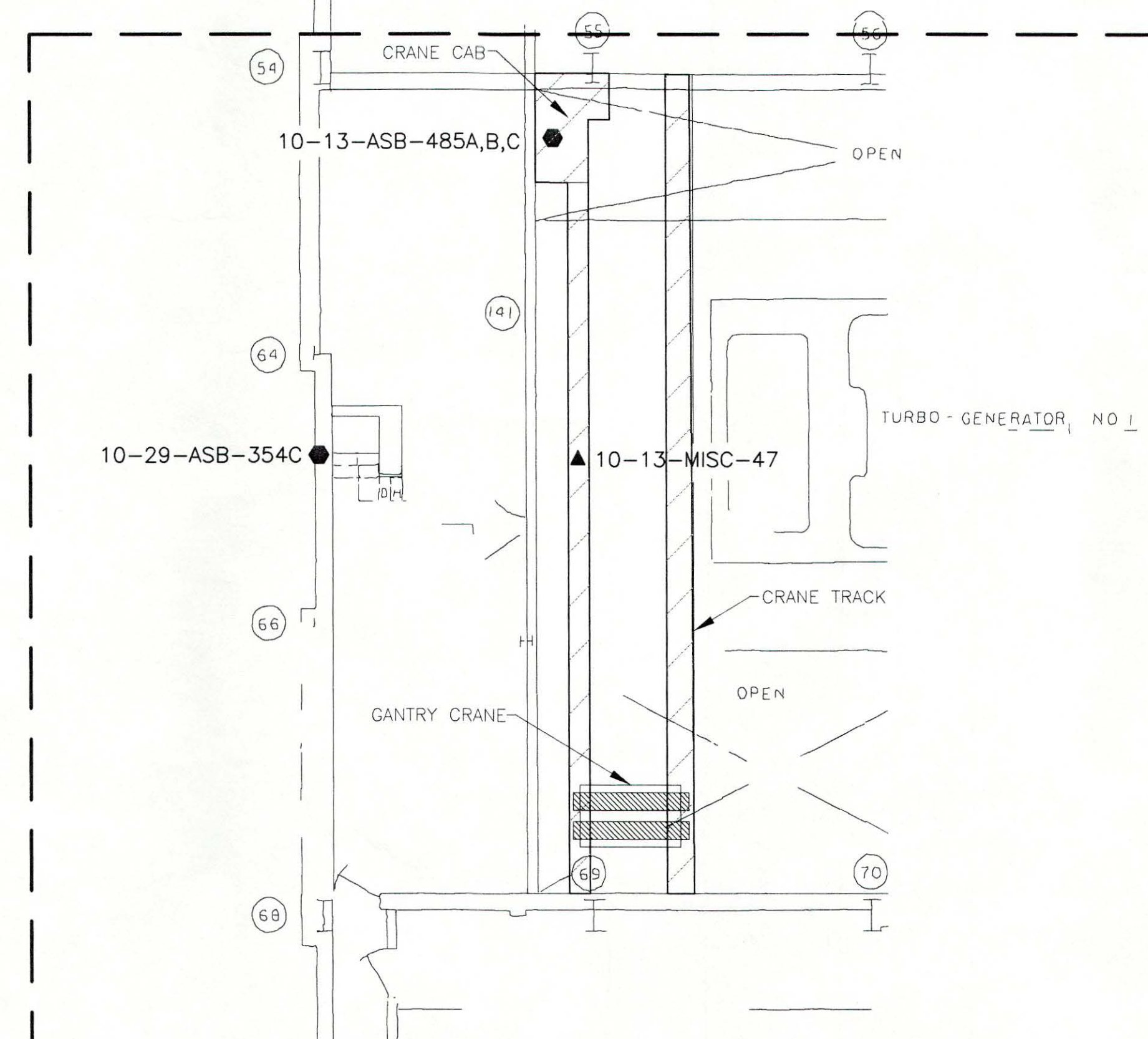
SCALE: NTS DRN BY: **PLATE 1**
 DATE: JAN 2000 99419



PLAN OF 4TH FLOOR LP BOILERS
ELEV 56'



PLAN OF 4TH FLOOR LP TURBINE AREA
ELEV 58'-7"



LEGEND	
● 11-3-ASB-385A	ASBESTOS SAMPLE LOCATION
▲ 10-29-MISC-97	MISCELLANEOUS SAMPLE LOCATION

THIS MAP IS COMPILED FROM A PLAN TITLED: "SECOND FLOOR PLAN, ELEVATION 22.5' & 25.5', ENGLISH STATION, DATED 12-21-45, DWG. NO. 111-36, SEQ #2041".

SECOND FLOOR PLAN
ELEVATION - 22.5' & 25.5'
ENGLISH STATION
FPH 12-21-45
TEF 1-3-46
1/4" = 1 FT
III-36
SEQ# 2041

GEI Consultants, Inc.

PLAN PREPARED FOR
UNITED ILLUMINATING COMPANY
ENGLISH STATION
NEW HAVEN, CONNECTICUT

**4TH FLOOR
LOW PRESSURE BOILER/TURBINE AREA**

SCALE: NTS
DATE: JAN 2000

DRN BY:
99419

PLATE 4

