February 14, 2002

LAWGIBB GROUP

Mr. Leamon Brice
Town of Davidson
Post Office Box 579
Davidson, North Carolina 28036

FEB 18 2002

Subject: **Report of Environmental Services**
Metrolina Warehouses
Davidson, North Carolina
LAW Project 30100-1-1046

Dear Mr. Brice:

Law Engineering and Environmental Services, Inc. (LAW) is pleased to provide this *Report of Environmental Services* completed at the above-referenced site. This report includes results of soil sampling conducted at the subject site.

Project Information

The site (Tax Parcel 00325301) contains two commercial warehouses located within the downtown area of Davidson, North Carolina. A nearby off-site underground storage tank (UST) was identified by LAW's subcontractor during a magnetometer survey. The UST is located approximately 10 feet east of the eastern property boundary near the railroad tracks. LAW personnel collected soil samples using Direct-Push methods on the southeastern portion of the site to assess if off-site contaminants have impacted the site.

A site survey (dated April 21, 1949) illustrates the 12,000-gallon fuel oil tank with a note "not in use". It is suspected that the tank may have been used to store fuel oil for a boiler at the subject site prior to 1949.

Field Activities

On January 28, 2002, LAW advanced two soil borings SS-1 and SS-2 (Figure 2). The soil borings were advanced to a depth of 28 feet below ground surface. Soil samples were collected at depths of 14 to 16 feet (SS-1A and SS-2A) and 26 to 28 feet (SS-1B and SS-2B) based on our field observations. The samples were placed in laboratory-prepared glass jars and were delivered in an

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ice-packed cooler to Prism Laboratories, Inc. (Prism) in Charlotte, North Carolina. The samples were analyzed by Prism for Total Petroleum Hydrocarbons gasoline and diesel range organics (Method 5030/3550/8015M).

Results

- Groundwater was not encountered in the borings to a depth of 28 feet.
- Chemical analyses of soil samples SS-1A, SS-1B, SS-2A, and SS-2B did not identify TPH above the minimum detection limits. Laboratory results are attached.

Recommendations

No further assessment is recommended at the site relative to the UST. NCDENR requires permanent closure of USTs that are out-of-service for more than 12 months.

Closing

LAW appreciates this opportunity to provide you with our professional environmental services. If you have questions, please contact us.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Brian Sikes

Brian G. Sikes
Staff Scientist

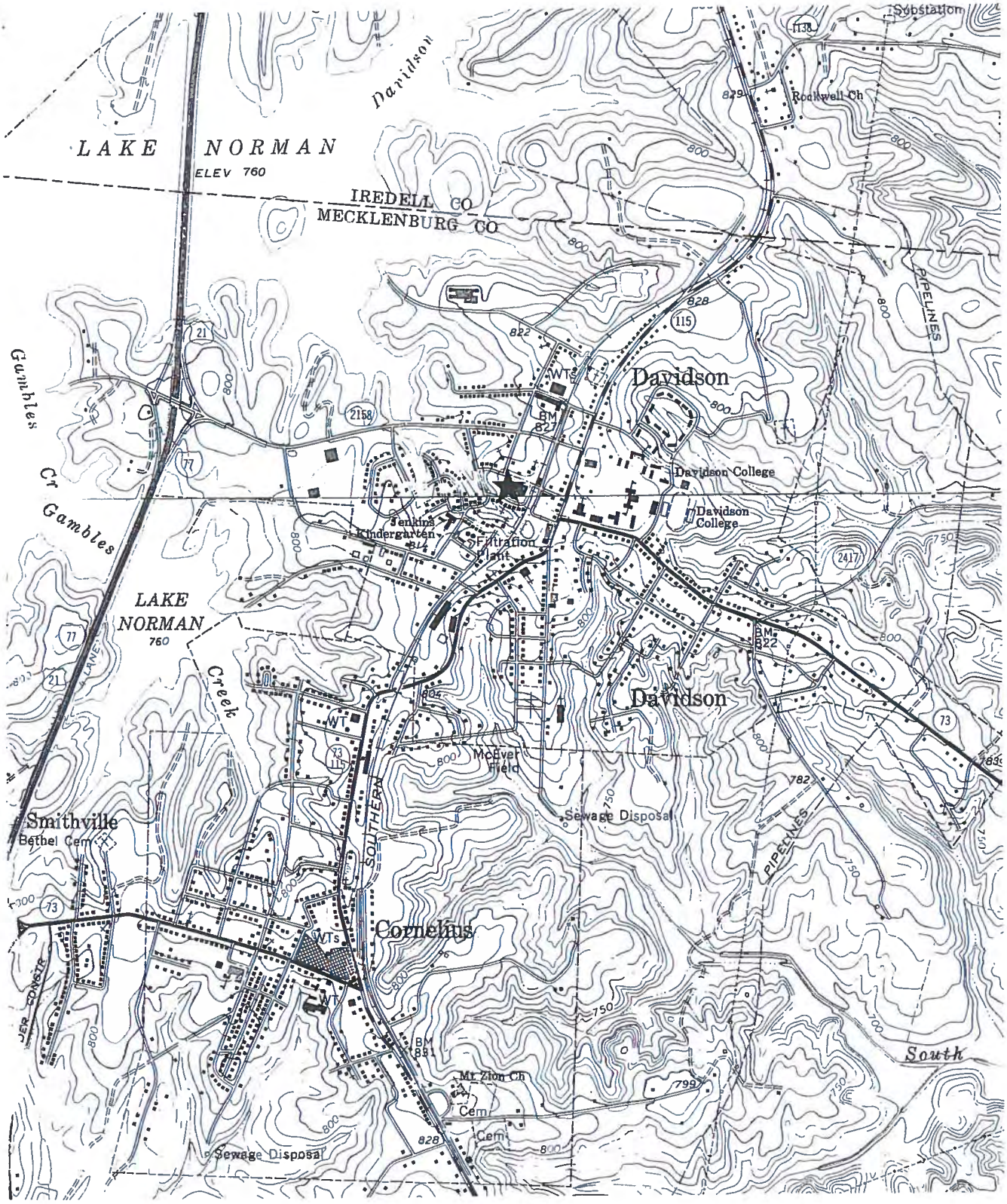
BY ~~BGS/RCF:lld~~ WITH PERMISSION

Attachments

Robert C. Foster, P.G.
Principal
Registered, NC #1335

NORTH CAROLINA LICENSED SEAL 1335 GEOLOGIST ROBERT C. FOSTER

FIGURES



EXPLANATION

★ APPROXIMATE SITE LOCATION

REF: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC MAP OF MOORESVILLE, N.C. DATED 1969

2000 1000 0 2000

APPROXIMATE SCALE IN FEET

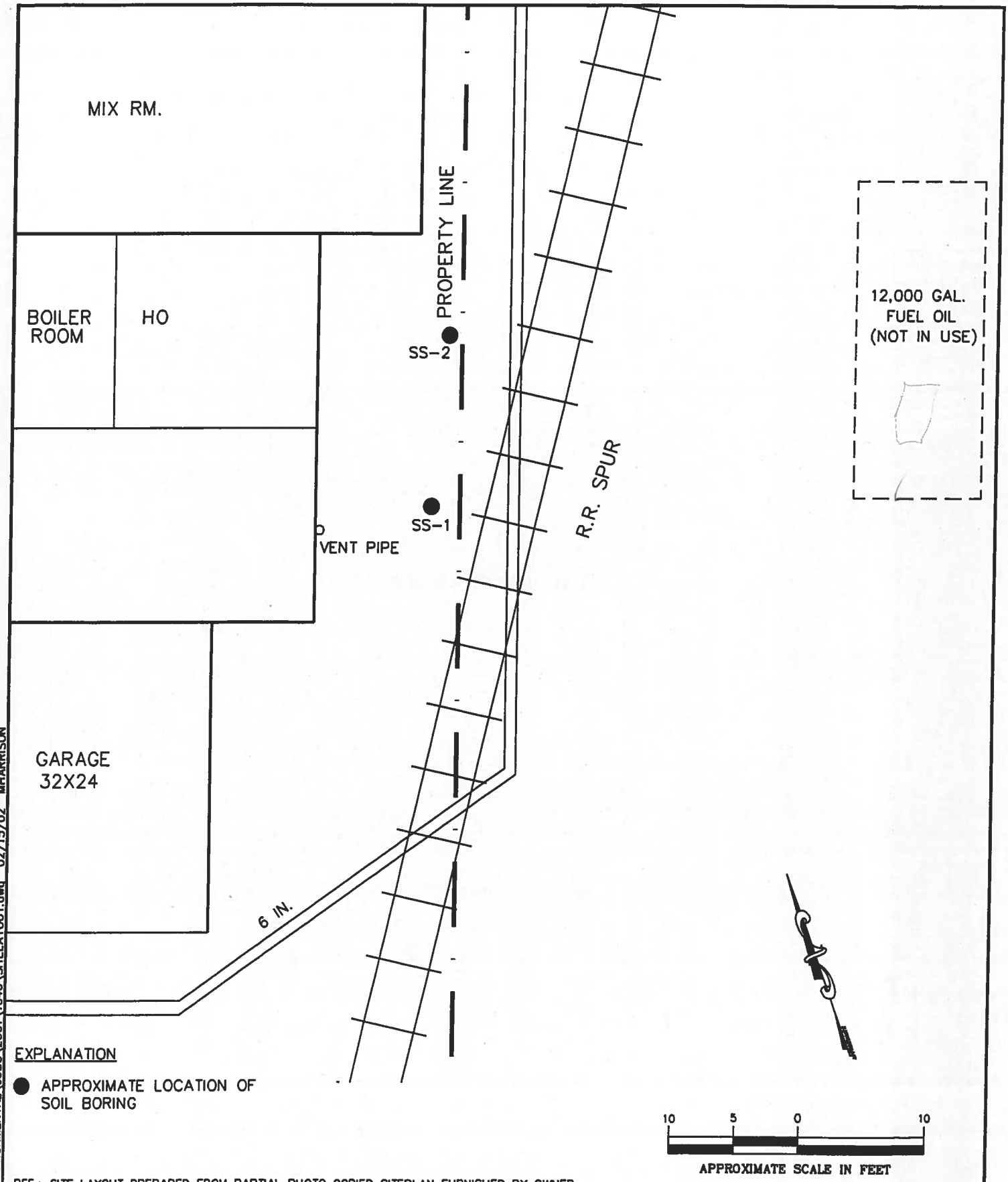
LAW
ENGINEERING & ENVIRONMENTAL SERVICES
CHARLOTTE, NORTH CAROLINA

SITE LOCATION/SURROUNDING PROPERTY

EDEN STREET SITE
DAVIDSON, NORTH CAROLINA

PREPARED BY	DATE	CHECKED RUA	DATE 1-22-02	JOB NO. 30100-1-1046	FIGURE 1

G:\PROJECTS\30140 ENVIRONMENTAL\JOBS\2001\1046\T-SITE.dwg 1/14/02 JJENNINGS



REF.: SITE LAYOUT PREPARED FROM PARTIAL PHOTO COPIED SITEPLAN FURNISHED BY OWNER.

G:\PROJECTS\30140 ENVIRONMENTAL\JOBS\2001\1046\SITELAYOUT.dwg 02/15/02 MHARRISON

LAW
ENGINEERING & ENVIRONMENTAL SERVICES
CHARLOTTE, NORTH CAROLINA

SOIL SAMPLE LAYOUT
EDEN STREET SITE
DAVIDSON, NORTH CAROLINA

PREPARED BY	DATE	CHECKED	DATE	JOB NO.	FIGURE
		RCA	2-14-02	30100-1-1046	2

LABORATORY DATA

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/8/02

Law Eng & Env Services, Inc
Attn: Rob Foster
PO Box 11297
Charlotte, NC 28220

Customer Project ID: **Metrolina Warehouses**
Customer Sample ID: **SS-1A**
Prism Sample ID: **AC32440**
Login Group: 6665H4
Sample Collection Date/Time: 1/28/02 12:00
Lab Submittal Date/Time: 1/28/02 15:35

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	2/1/02 10:38	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	2/7/02 00:31	KC
CALCULATIONS BASED ON DRY WT.	79	% DRY WT.	0.01	SM 2540 G	1/29/02 17:00	CWA
PREP. METHOD 3550	Completed			SW846-3550	1/30/02 13:30	JMV

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

PRISM
LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/8/02

Law Eng & Env Services, Inc
Attn: Rob Foster
PO Box 11297
Charlotte, NC 28220

Customer Project ID: **Metrolina Warehouses**
Customer Sample ID: **SS-1B**
Prism Sample ID: **AC32441**
Login Group: 6665H4
Sample Collection Date/Time: 1/28/02 12:15
Lab Submittal Date/Time: 1/28/02 15:35

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	2/1/02 11:09	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	2/7/02 01:10	KC
CALCULATIONS BASED ON DRY WT.	76	% DRY WT.	0.01	SM 2540 G	1/29/02 17:00	CWA
PREP. METHOD 3550	Completed			SW846-3550	1/30/02 13:30	JMV

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

PRISM
LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/8/02

Law Eng & Env Services, Inc
Attn: Rob Foster
PO Box 11297
Charlotte, NC 28220

Customer Project ID: **Metrolina Warehouses**
Customer Sample ID: **SS-2A**
Prism Sample ID: **AC32442**
Login Group: 6665H4
Sample Collection Date/Time: 1/28/02 13:10
Lab Submittal Date/Time: 1/28/02 15:35

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	2/1/02 11:50	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	2/7/02 01:48	KC
CALCULATIONS BASED ON DRY WT.	78	% DRY WT.	0.01	SM 2540 G	1/29/02 17:00	CWA
PREP. METHOD 3550	Completed			SW846-3550	1/30/02 13:30	JMV

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

PRISM
LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/8/02

Law Eng & Env Services, Inc
Attn: Rob Foster
PO Box 11297
Charlotte, NC 28220

Customer Project ID: **Metrolina Warehouses**
Customer Sample ID: **SS-2B**
Prism Sample ID: **AC32443**
Login Group: 6665H4
Sample Collection Date/Time: 1/28/02 14:00
Lab Submittal Date/Time: 1/28/02 15:35

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH - DIESEL RANGE	Less than	mg/kg	10	8015MOD/3550	2/1/02 12:31	GRR
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	2/7/02 02:27	KC
CALCULATIONS BASED ON DRY WT.	82	% DRY WT.	0.01	SM 2540 G	1/29/02 17:00	CWA
PREP. METHOD 3550	Completed			SW846-3550	1/30/02 13:30	JMV

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions
449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: MITROLINA WAREHOUSES

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

*Please ATTACH any project specific reporting provisions and/or QC Requirements

Invoice To: ROB FOSTER

Address: LAW CHARLOTTE

Purchase Order No./Billing Reference _____

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days ☐ 6–9 Days ☐ Standard 10 days

Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE SIDE FOR RUSH TURNAROUND FEES)

Client Company Name: LAW
Report To/Contact Name: ROB FOSTER
Reporting Address: 2801 TERRAMOR RD CHARLOTTE [illegible]
Phone: [illegible] Fax (Yes) (No): _____
Site Location Name: _____
Site Location Physical Address: [illegible]

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival? 3°	✓		
Received ON WET ICE? Temp 3	✓		
PROPER PRESERVATIVES indicated?			✓
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ____ USACE ____ FL ____ NC ____ SC ____ OTHER ____ N/A ____

Water Clorinated: YES ___ NO ___

Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8260					REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.
SS-1A	[illegible]	1200	SOIL	VG	2		NONE	X	X							[illegible]
SS-1B	↓	1215	↓	↓	2		↓	X	X							[illegible]
SS-2A	↓	1310	↓	↓	2		↓	X	X							[illegible]
SS-2B	↓	1400	↓	↓	2		↓	X	X							[illegible]

Sampler's Signature _____ Sampled By (Print Name) [illegible] Affiliation LAW

PRESS DOWN FIRMLY - 3 COPIES

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Relinquished By (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: Kathryn Wing	Date 1/28/[illegible]	555
Method of Shipment: ☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____		Log-In Group No. [illegible]	

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA:	LANDFILL:	OTHER:
☐ NC	☐ NC	☐ NC	☐ NC	☐ NC	☐ NC	☐ NC	☐ NC	☐ NC
☐ SC	☐ SC	☐ SC	☐ SC	☐ SC	☐ SC	☐ SC	☐ SC	☐ SC
☐	☐	☐	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

FINAL REPORT COPY

LAWGIBB GROUP

February 18, 2002

Mr. Leamon Brice
Town of Davidson
Post Office Box 579
Davidson, North Carolina 28036

Subject: **Report of Subsurface Asbestos Investigation**
Metrolina Warehouses
Davidson, North Carolina
LAW Project 30100-1-1046

Dear Mr. Brice:

Law Engineering and Environmental Services, Inc. (LAW) is pleased to provide this *Report of Subsurface Asbestos Investigation* completed at the above-referenced site. This report includes results of the soil borings completed at the subject site and analytical results.

Project Information

The site (Tax Parcel 003-253-01) contains two commercial warehouses located within the downtown area of Davidson, North Carolina (Figure 1). An asbestos mill formerly occupied the site. Some environmental work was completed at the site in 1984 that included the assessment of Asbestos Containing Materials (ACMs) in a former holding pond at the rear of the property. The pond area was subsequently "closed" by placement of a compacted clay soil cap over the asbestos layer. A grass cover was then planted.

Based on our review of the documentation of the environmental work completed in 1984 and discussions with representatives of the Town of Davidson concerning materials buried at the site, LAW advanced borings at the site to estimate the volume of buried asbestos material.

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Field Activities

LAW employed Direct Push Technology using stainless-steel core barrels to advance 33 borings at the site. The purpose of the borings was to collect samples and estimate the volume of buried asbestos material. Continuous soil samples were obtained in four-foot lengths with a stainless-steel sampling tube and acetate tube liners.

LAW established a grid area over the western portion of the site (see attached Site Plan in Appendix A: Site Plan and Profiles). The borings were spaced at 25-foot (north to south) and 50-foot (east to west) intervals on the grid. A total of 27 borings were advanced in this area of the site. The borings were advanced to depths ranging from 4 to 8 feet. The thickness of the clay cap and the asbestos layer was measured at each boring location. LAW prepared cross-sectional profiles of the borings, showing the thickness of the clay cap and the asbestos material (see attached Subsurface Fence Diagrams in Appendix A: Site Plan and Profiles).

Upon completion of the borings, LAW personnel measured the elevations of the ground surface at each boring location relative to an arbitrary datum. The datum elevation was given an assumed benchmark elevation of 100.00. The elevations of the top and the base of the asbestos material were calculated using the surface elevation survey and the boring data (see Table 1: Surface and Asbestos Material Elevations).

One sample of the asbestos material was collected from boring A1 (Sample Number B-1) and three were collected from boring D3 (Sample Numbers 13.1, 13.2 & 13.3). Bulk samples were submitted to Scientific Laboratories (SCILAB) of Midlothian, Virginia for analysis. SCILAB is accredited by National Voluntary Laboratory Accreditation Program (NVLAP No.1904-00). Bulk samples were analyzed in accordance with Appendix A to Subpart F, 40 CFR Part 763 (AHERA), by EPA Method 600/R-93/116, Polarized Light Microscopy/Dispersion Staining (PLM/DS).

The SCILAB analytical report indicated 5% to 25% chrysotile asbestos and 3% to 10% amosite asbestos was detected in the samples (see Appendix B: Analytical Report).

Six additional borings were advanced in areas adjacent to the building located on the front of the lot (see attached Site Plan in Appendix A: Site Plan and Profiles). With the exception of boring K1, no asbestos

material was detected in these borings. Material similar to floor tile was observed at about 1 to 1.5 feet below the ground surface in boring K1.

Results

LAW estimated the approximate volume of asbestos material buried at the site using data from the borings. The assessment data indicates at least 2,100 to 2,300 cubic yards of asbestos material is buried in the former holding pond area. Data form borings E1, F1 and G1 indicate that the asbestos material continues eastward in the subsurface beneath the adjacent gravel parking area. As a result, borings G3, G4 and G5 were advanced in the gravel parking area. Asbestos material was encountered in these borings at a thickness ranging from 1.1 to 3.7 feet. The remaining portion of the gravel parking area was occupied by vehicles and was not accessible to our probing equipment.

Recommendations

Prior to initiating excavation activities that may disturb the identified ACM's, the material would have to be removed by a North Carolina Licensed Asbestos Abatement Contractor. The methodologies (i.e., appropriate engineering controls, removal procedures) of this work should be in accordance with applicable laws and regulations. This work should be monitored by a competent person not affiliated with the abatement contractor, and will include air sampling to verify that the work is performed in accordance with project documents and Federal, State and local laws.

Opinion of Costs

The cost for removal and disposal of the asbestos material identified in this investigation is expected to range from approximately $65 to $95 per cubic yard. As previously stated, LAW estimated at least 2,300 cubic yards of the material in the former holding pond area. Therefore, the total remediation costs could be expected to range from approximately $150,000 to $220,000.

LAW offers this *Opinion of Costs* based on our experience on projects of this nature. This *Opinion of Costs* is not intended as a proposal to perform the removal and disposal of the materials identified in this report. The actual cost of work depends on many factors beyond LAW's control and may vary significantly from LAW's opinion.

Closing

LAW appreciates the opportunity to assist the Town of Davidson on this project. If you have questions concerning this report, please contact us at (704) 357-8600.

Sincerely

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Charles Hughart
Asbestos Project Manager

Robert C. Foster, P.G.
Principal
Registered, NC #1335

Table One

Surface and Asbestos Material Elevations

Table 1: Surface and Asbestos Material Elevations

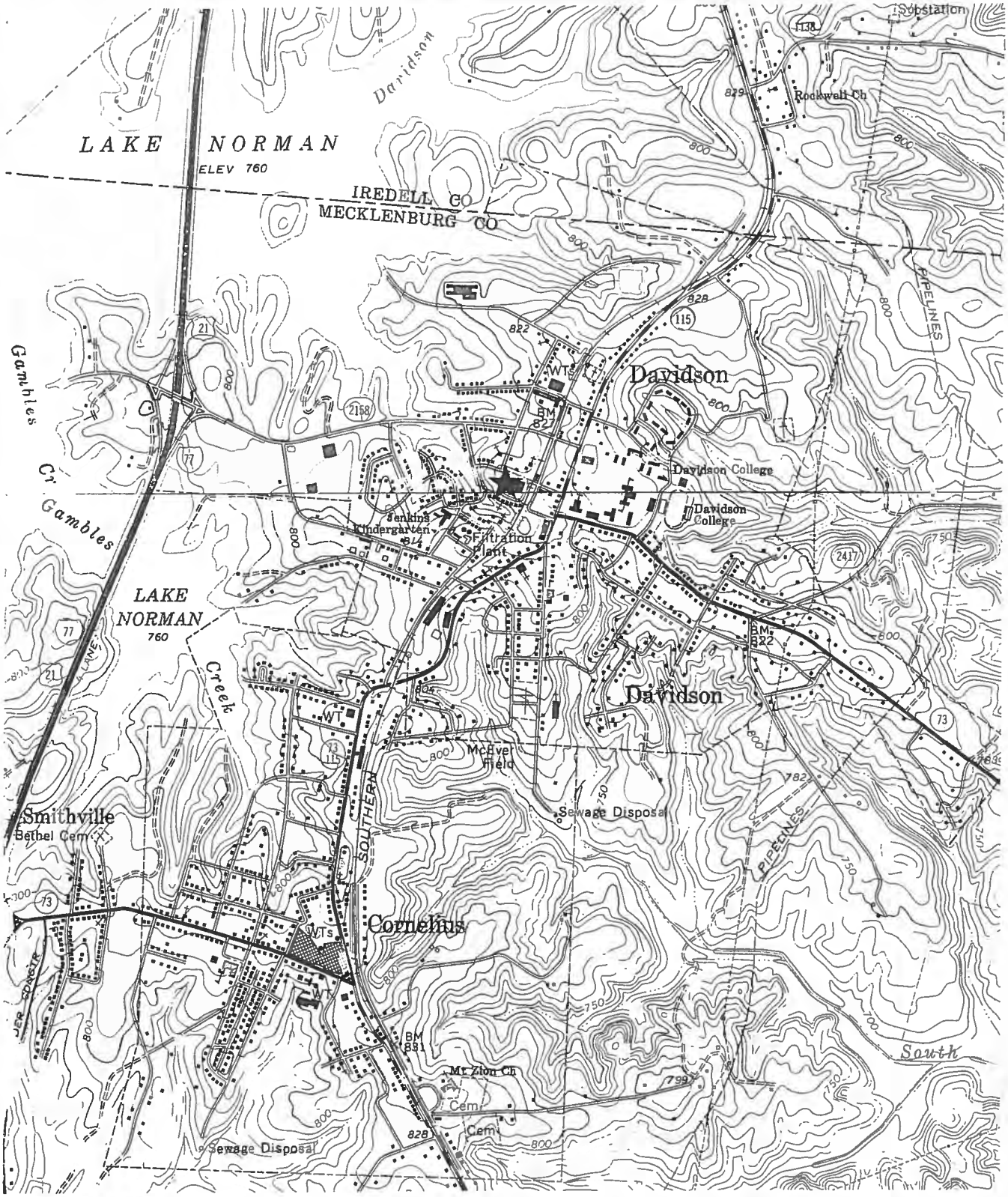
BORING	GROUND SURFACE ELEVATION*	DEPTH TO TOP OF ASBESTOS LAYER	DEPTH TO BOTTOM OF ASBESTOS LAYER	ELEVATION OF TOP OF ASBESTOS	ELEVATION OF BOTTOM OF ASBESTOS	TOTAL ASBESTOS THICKNESS
A1	107.64	0.15	0.25	107.49	107.39	0.10
A2	104.24	0.50	0.90	103.74	103.34	0.40
B1	107.33	0.00	0.00			0.00
B2	104.34	0.60	1.10	103.74	103.24	0.50
B3	102.46	0.60	3.90	101.86	98.56	3.30
C1	106.19	0.90	3.70	105.29	102.49	2.80
C2	103.72	0.50	0.90	103.22	102.82	0.40
C3	102.86	0.10	1.80	102.76	101.06	1.70
D1	104.20	0.50	5.60	103.70	98.6	5.10
D2	103.89	1.01	3.04	102.88	100.85	2.03
D3	103.38	1.00	8.50	102.38	94.88	7.50
D4	102.97	1.03	8.30	101.94	94.67	7.27
D5	102.17	1.40	5.00	100.77	97.17	3.60
E1	103.81	1.10	9.10	102.71	94.71	8.00
E2	103.63	1.02	7.50	102.61	96.13	6.48
E3	103.05	0.70	7.50	102.35	95.55	6.80
E4	102.95	1.00	3.10	101.95	99.85	2.10
F1	103.68	2.00	7.80	101.68	95.88	5.80
F2	103.15	1.01	8.70	102.14	94.45	7.69
F3	102.94	1.10	7.90	101.84	95.04	6.80
G1	103.15	1.50	7.30	101.65	95.85	5.80
G2	102.54	0.70	1.90	101.84	100.64	1.20
H1	102.33	1.30	6.00	101.03	96.33	4.70
I1	101.69	1.40	7.00	100.29	94.69	5.60

* Note: Ground surface elevations measured relative to arbitrary datum elevation of 100.00.

Prepared/Date: CH 2/18/02
Checked/Date: RCF 2-18-02

Appendix A

Site Plan and Profiles



EXPLANATION

★ APPROXIMATE SITE LOCATION

REF: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC MAP OF MOORESVILLE, N.C. DATED 1969

2000 1000 0 2000

APPROXIMATE SCALE IN FEET

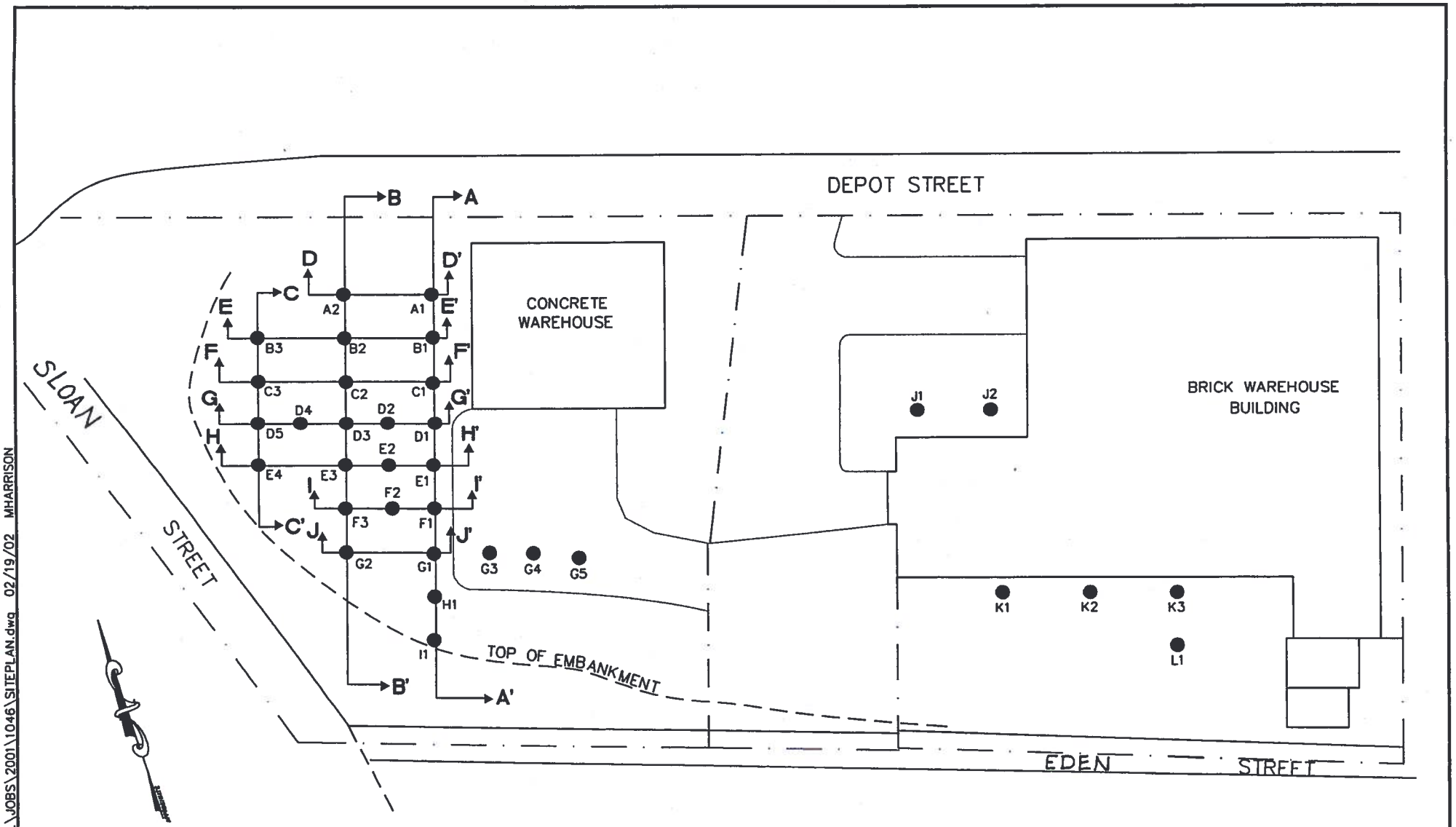
LAW
ENGINEERING & ENVIRONMENTAL SERVICES
CHARLOTTE, NORTH CAROLINA

SITE LOCATION/SURROUNDING PROPERTY

EDEN STREET SITE
DAVIDSON, NORTH CAROLINA

PREPARED BY	DATE	CHECKED RUF	DATE 1-22-02	JOB NO. 30100-1-1046	FIGURE 1

G:\PROJECTS\30140 ENVIRONMENTAL\JOBS\2001\1046\T-SITE.dwg 1/14/02 JJENNINGS



EXPLANATION

● APPROXIMATE SITE LOCATION BORING POINTS

▲ SUBSURFACE PROFILE LINE

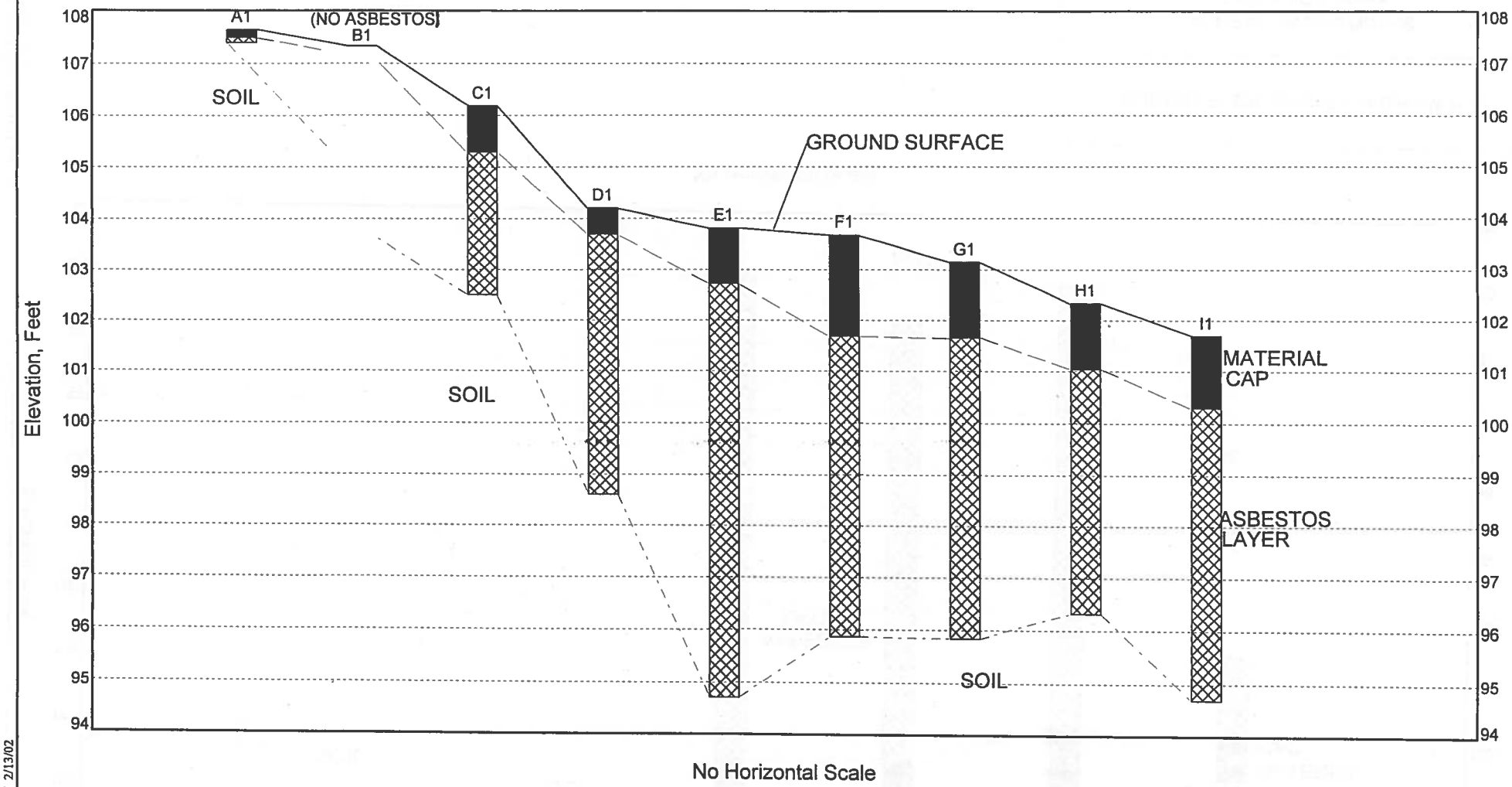
REF.: SITE SKETCH PREPARED BY KEITH R. MAEN NCRLS, LAST REVISED 10-26-76.

LAW
ENGINEERING & ENVIRONMENTAL SERVICES
CHARLOTTE, NORTH CAROLINA

SITE PLAN
TOWN OF DAVIDSON
DAVIDSON, NORTH CAROLINA

PREPARED BY	DATE	CHECKED	DATE	JOB NO.	FIGURE
			2-18-02	30100-1-1046	2

G:\PROJECTS\30140 ENVIRONMENTAL\JOBS\2001\1046\SITEPLAN.dwg 02/19/02 MHARRISON

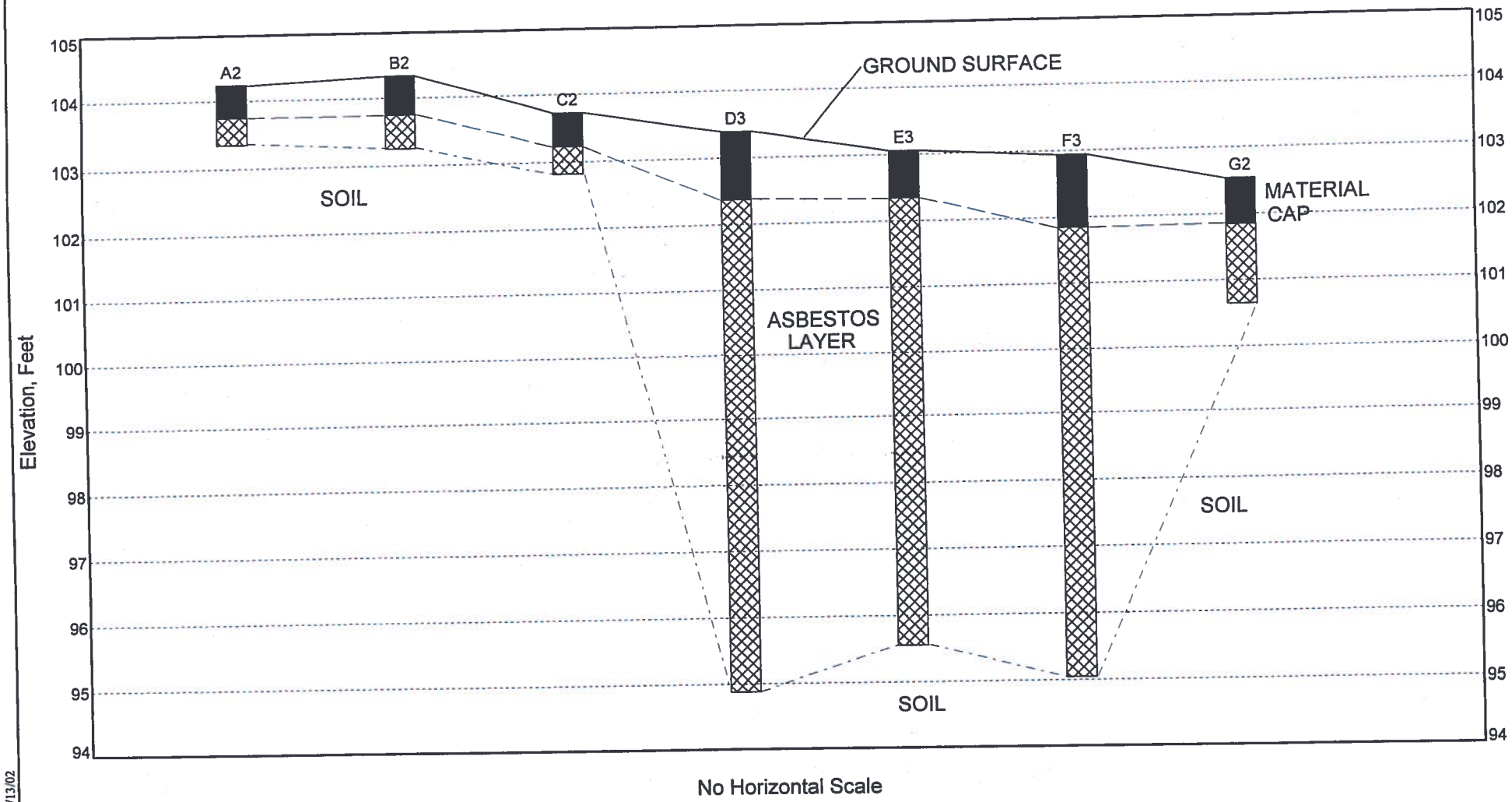


SUBSURFACE FENCE DIAGRAM A-A'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	1

CROSS_SECTION_LOGS.GPJ FAGWGN01.GDT 2/13/02

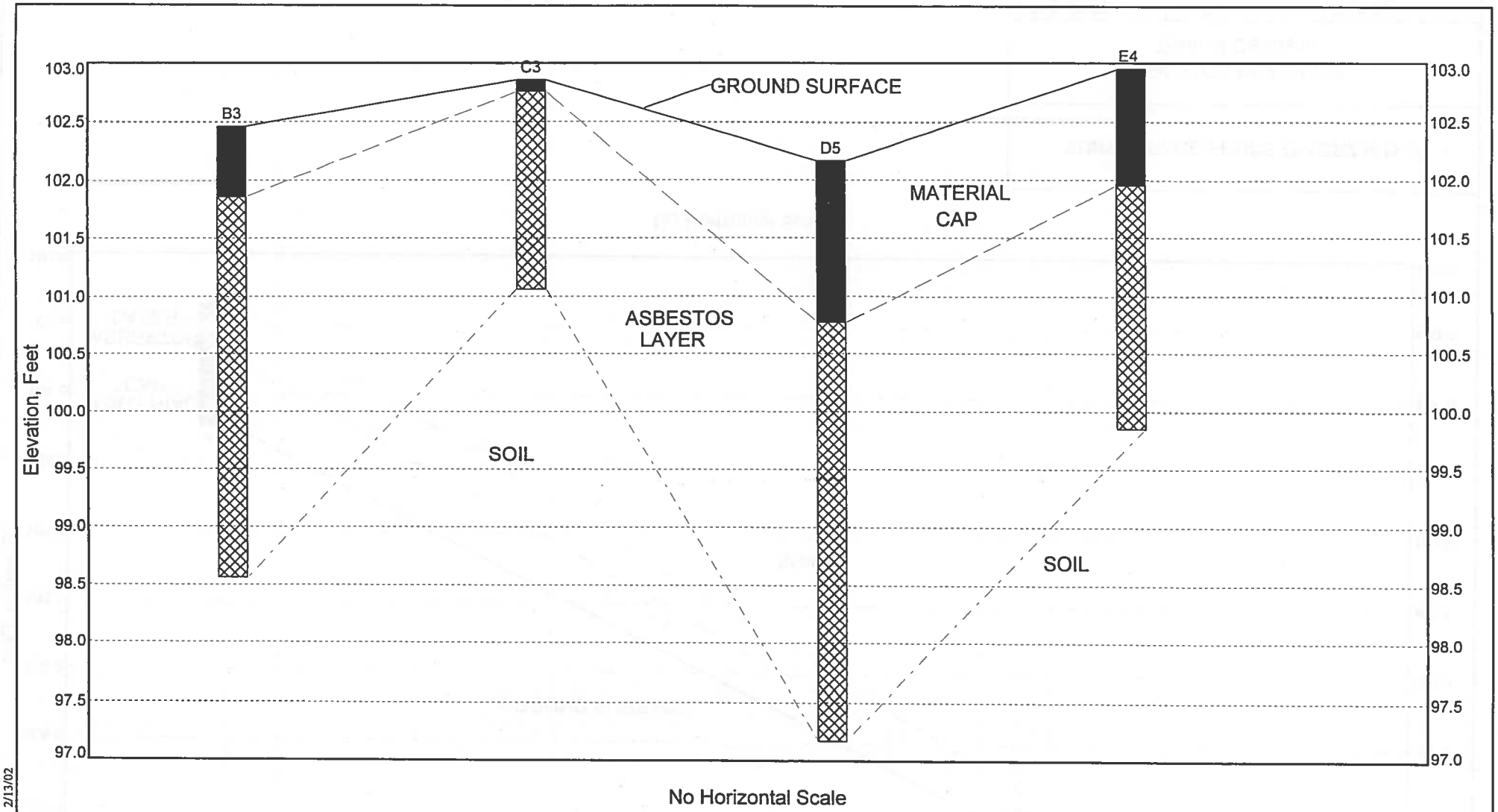


SUBSURFACE FENCE DIAGRAM B-B'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	2

CROSS SECTION LOGS.GPJ FAGWGN01.GDT 2/13/02

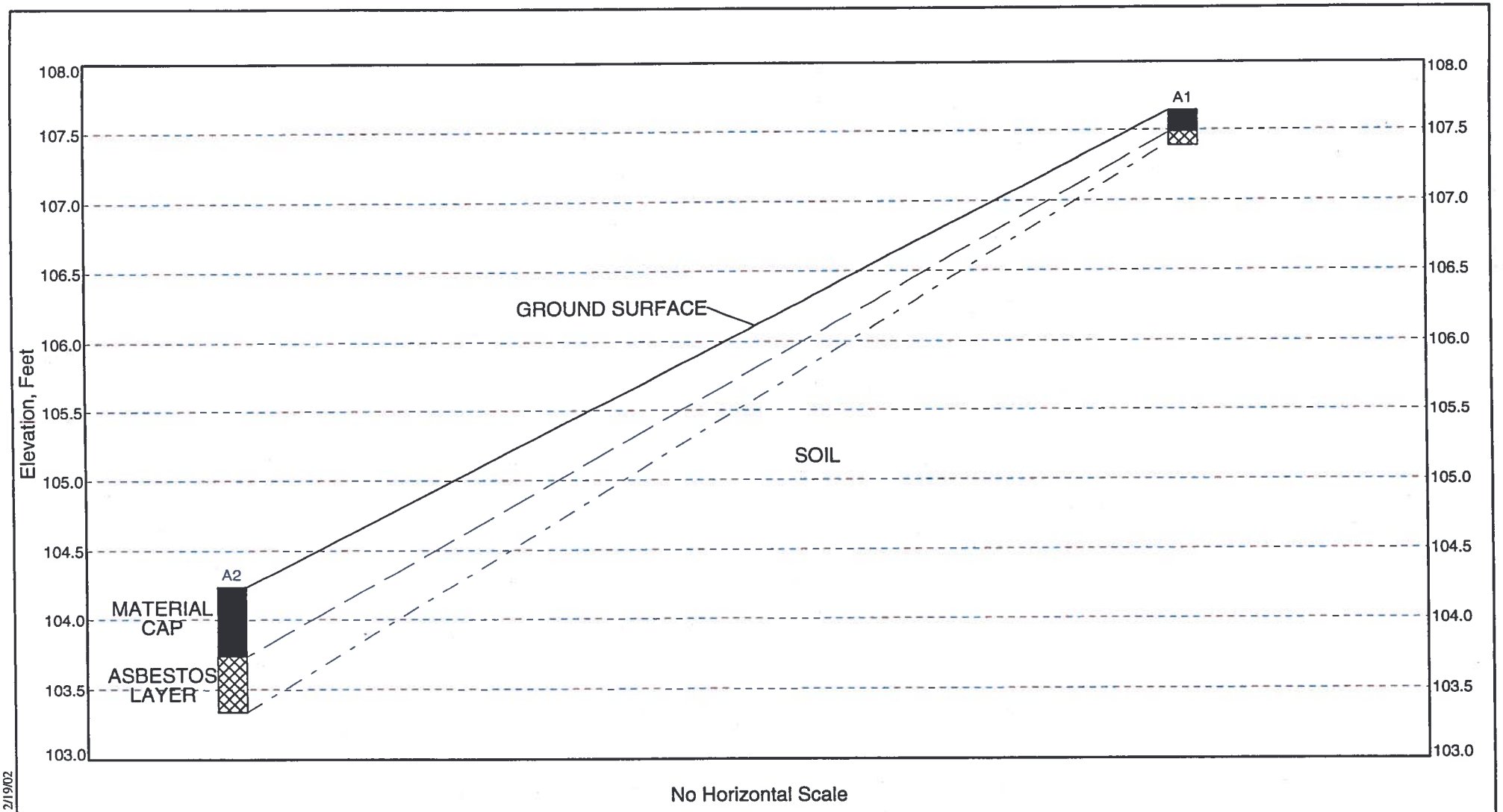


SUBSURFACE FENCE DIAGRAM C-C'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	3

CROSS SECTION LOGS.GPJ FAGWGN01.GDT 2/13/02

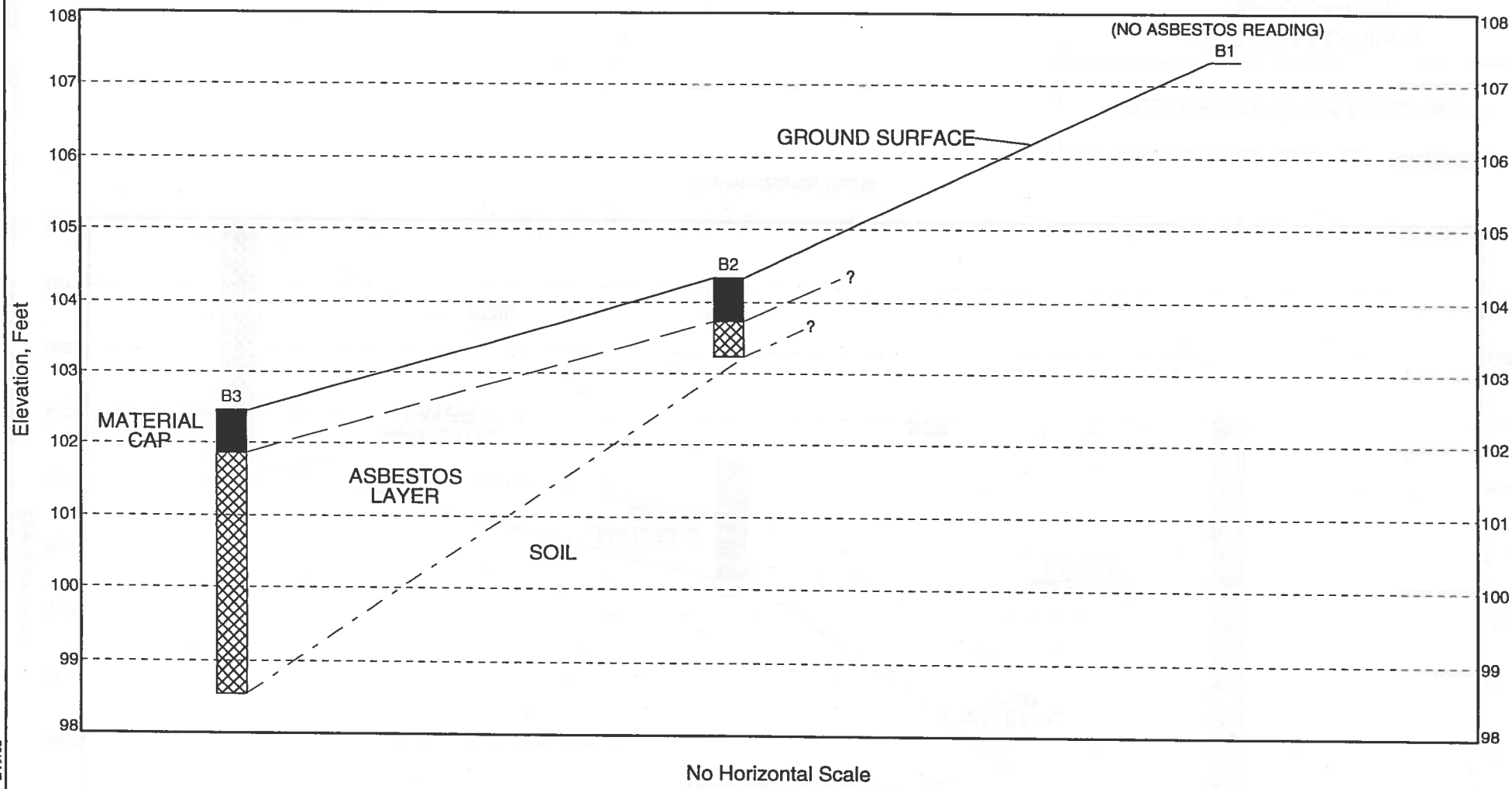


SUBSURFACE FENCE DIAGRAM D-D'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	4

CROSS_SECTION LOGS.GPJ FAGWGN01.GDT 2/19/02

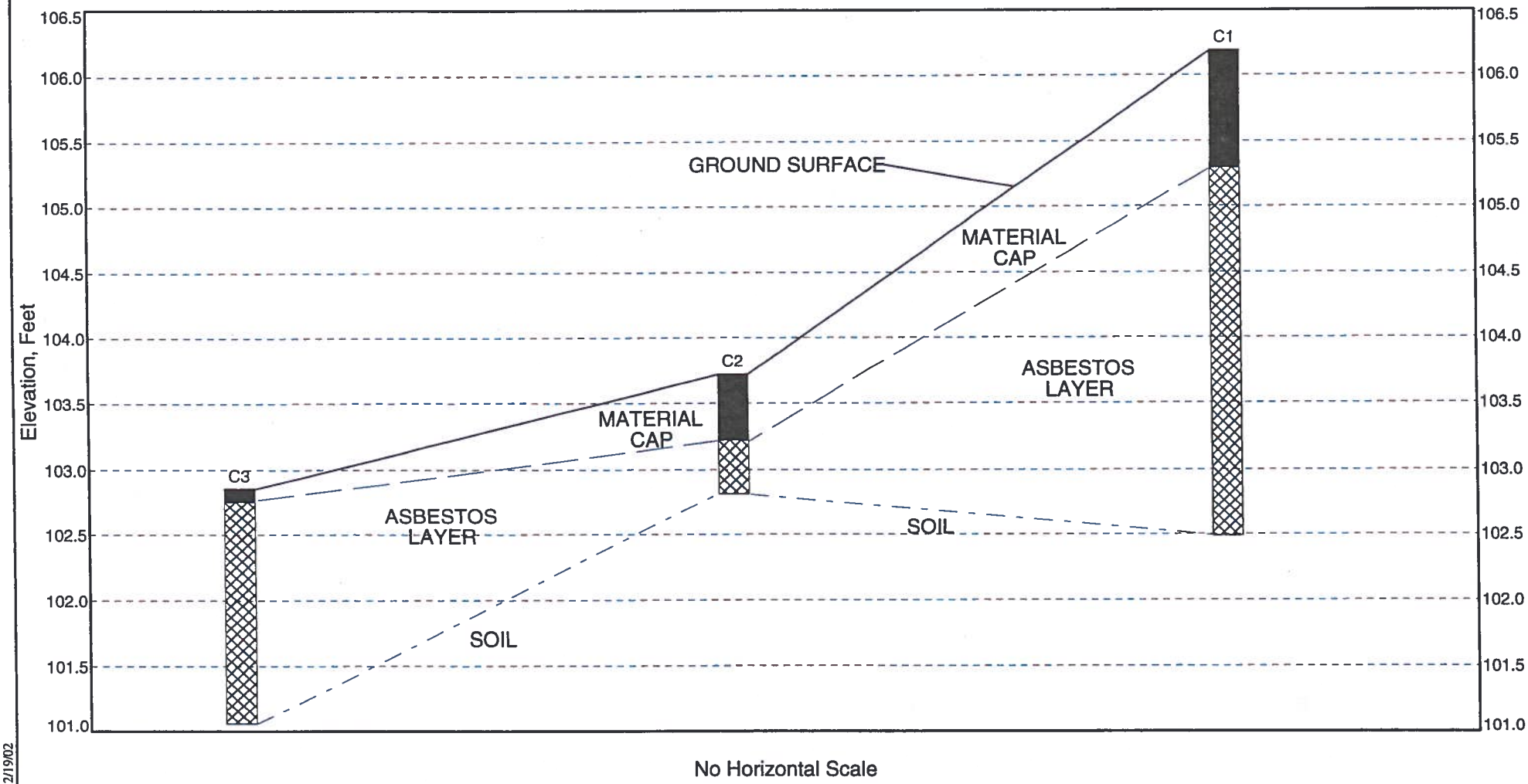


SUBSURFACE FENCE DIAGRAM E-E'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	5

CROSS_SECTION LOGS.GPJ FAGWGN01.GDT 2/19/02



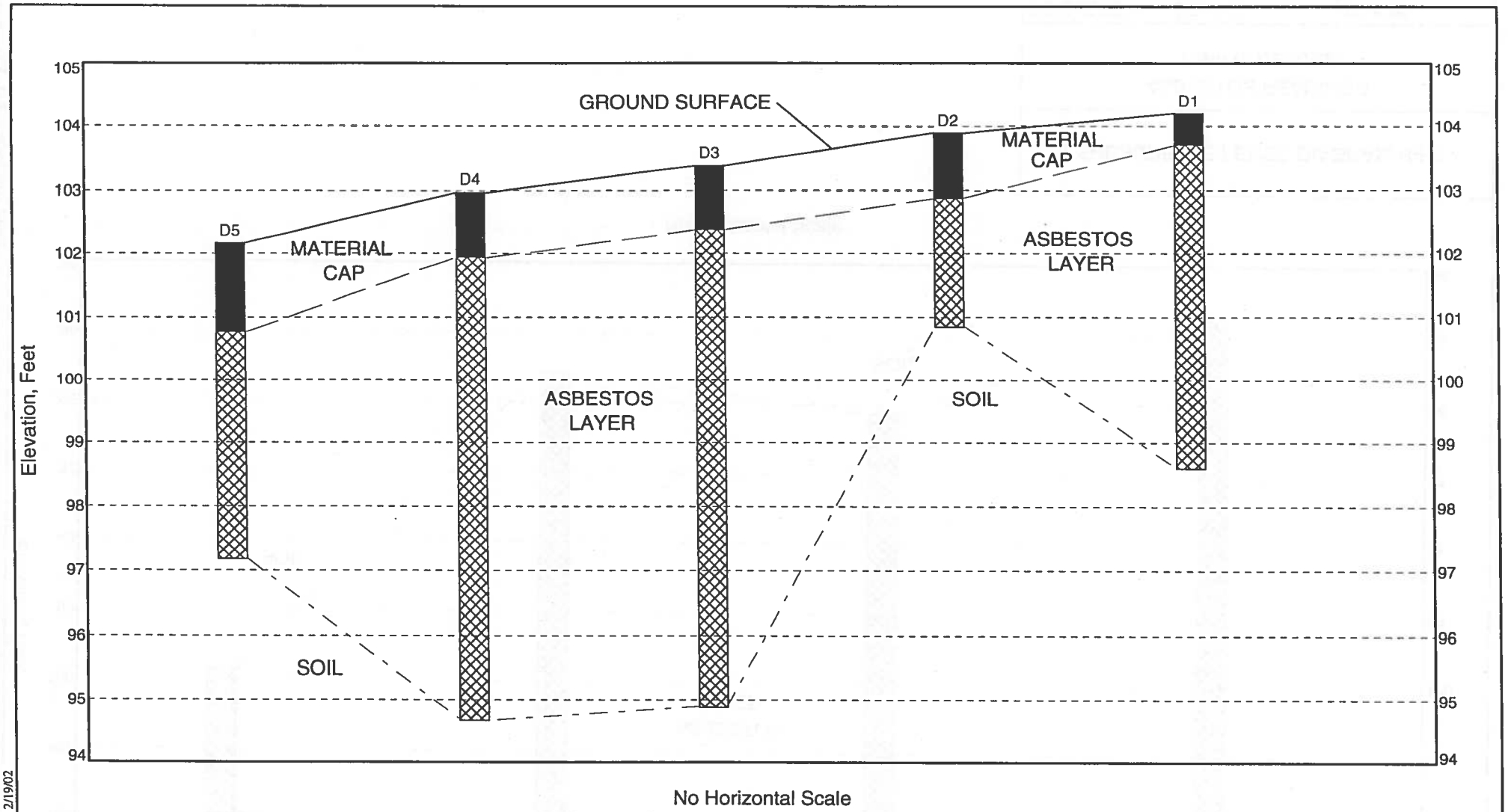
No Horizontal Scale

SUBSURFACE FENCE DIAGRAM F-F'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	6

CROSS_SECTION LOGS.GPJ FAGWGN01.GDT 2/19/02



SUBSURFACE FENCE DIAGRAM G-G'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	7

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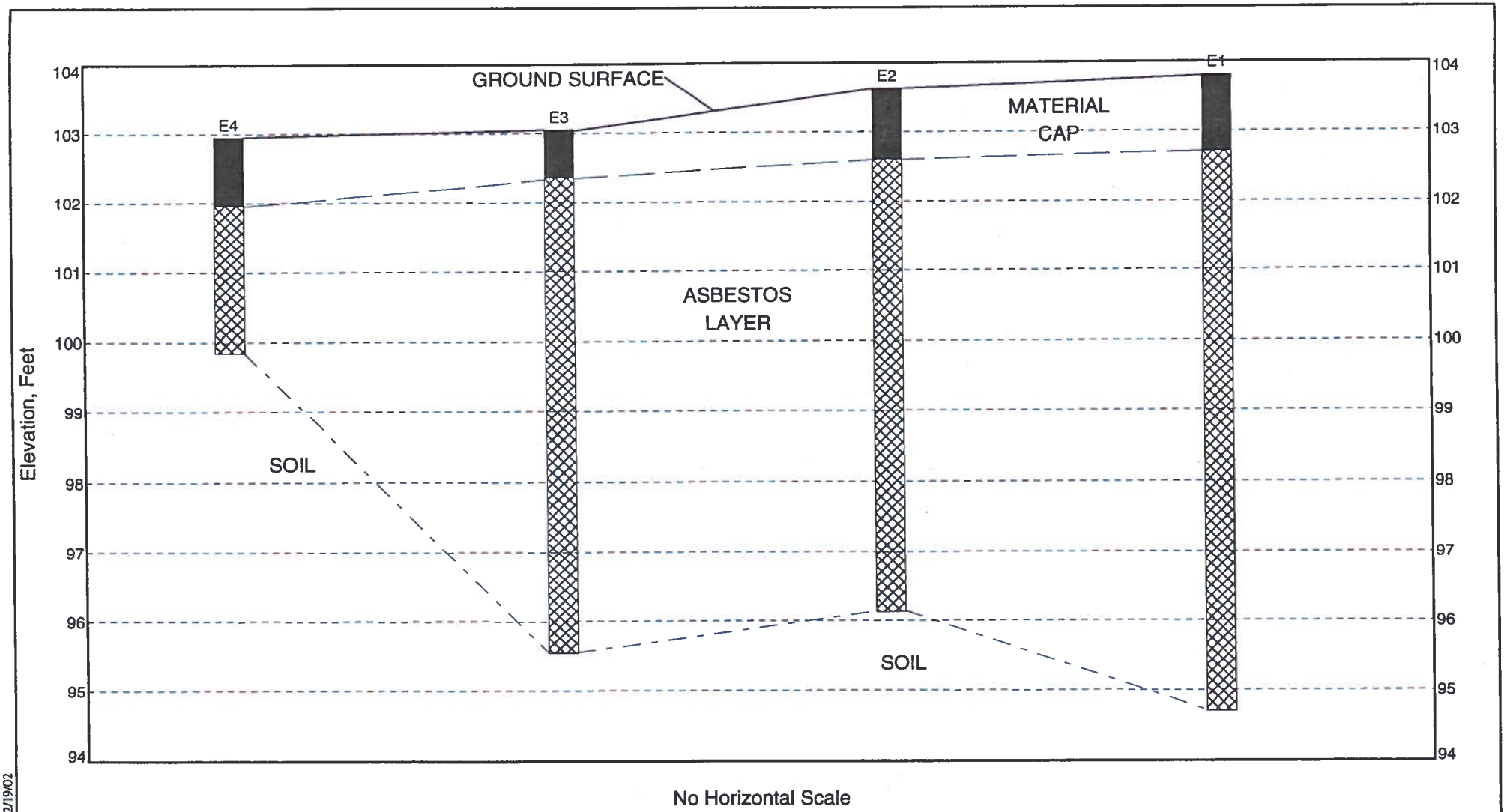

SUBSURFACE FENCE DIAGRAM H-H'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	8

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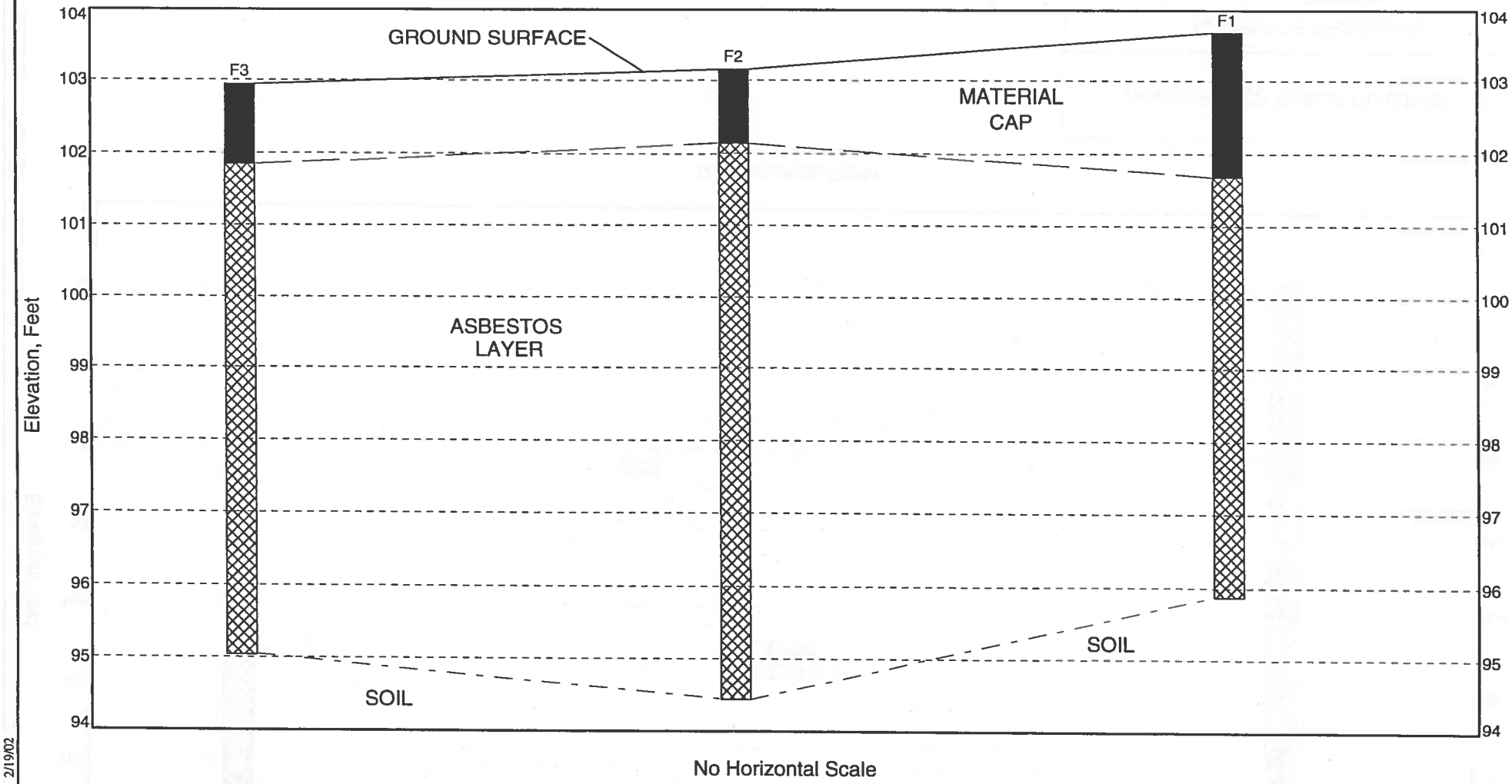
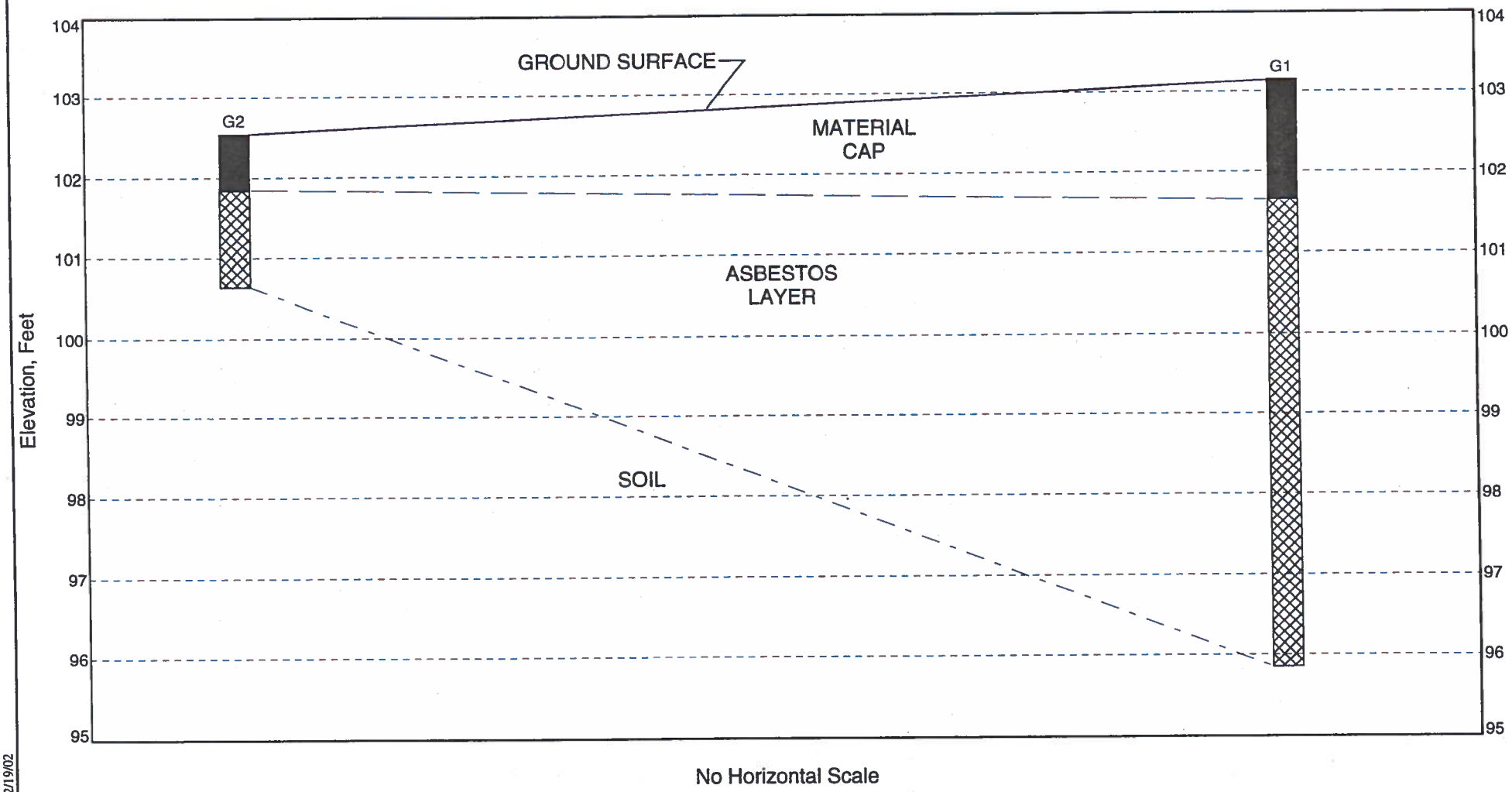


SUBSURFACE FENCE DIAGRAM I-I'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	9

CROSS_SECTION LOGS.GPJ FAGWGN01.GDT 2/19/02



SUBSURFACE FENCE DIAGRAM J-J'

ASBESTOS READINGS
Town of Davidson

PROJECT #	DATE	PLATE
30100-1-1046	Feb 02	10

CROSS_SECTION_LOGS.GPJ FAGWGN01.GDT 2/19/02

Appendix B

Analytical Report

SCILAB
FULL SERVICE ENVIRONMENTAL LABORATORIES

SCIENTIFIC LABORATORIES, INC.
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Law Engineering, Inc.
Attn: Charley Hughart
2801 Yorkmont Road
Charlotte, NC 28208

Date Received 01/30/2002 **SciLab Job No.** 102011474
Date Examined 01/30/2002 **P.O. #** 30100-1-1046-01-917
Page 1 **of** 2

RE: 30100-1-1046; Town of Davidson

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-1	102011474-01	*Yes*	18 %
	Location: 101 Beneath soil		
	Description: Green/Grey, Homogeneous, Bulk Material		
	Asbestos Types: Amosite 3. %, Chrysotile 15. %		
	Other Material: Non-fibrous 82. %		
B-13.1	102011474-02	*Yes*	10 %
	Location: 101 Beneath soil		
	Description: White, Homogeneous, Bulk Material		
	Asbestos Types: Amosite 5. %, Chrysotile 5. %		
	Other Material: Non-fibrous 90. %		
B-13.2	102011474-03	*Yes*	20 %
	Location: 101 Beneath soil		
	Description: Multi-Colored, Homogeneous, Bulk Material		
	Asbestos Types: Amosite 10. %, Chrysotile 10. %		
	Other Material: Non-fibrous 80. %		
B-13.3	102011474-04	*Yes*	30 %
	Location: 101 Beneath soil		
	Description: Grey, Homogeneous, Bulk Material		
	Asbestos Types: Amosite 5. %, Chrysotile 25. %		
	Other Material: Non-fibrous 70. %		

SCILAB
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TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Law Engineering, Inc.
Attn: Charley Hughart
2801 Yorkmont Road
Charlotte, NC 28208

Date Received 01/30/2002 **SciLab Job No.** 102011474
Date Examined 01/30/2002 **P.O. #** 30100-1-1046-01-917
Page 2 **of** 2

RE: 30100-1-1046; Town of Davidson

Reporting Notes:

Analyzed by: Sam Manooch Date 01/30/02

*NAD/NSD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #101904-0) and ELAP PLM Analysis Protocol 198.1 for New York samples (NYSDOH ELAP Lab # 10984); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:_____

-102011474

SCILAB
FULL SERVICE ENVIRONMENTAL LABORATORIES

SCIENTIFIC LABORATORIES, INC.
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

Company: Law Engineering
Phone: 704-357-8600
Fax:

Address: 2801 Yorkmont Rd.

P.O.#: 30100-1-1046-01-917

Project Information

Job Name: Town of Davidson

Job No.: 30100-1-1046

Job Desc.:

Job Manager: Charlie Hughart

Analysis Type	Turnaround Time: 6-8 hr	12 hr	24 hr	48 hr	72 hr	5 day	other	Air Filter Info	
TEM/AHERA								MCE	
TEM/LEVEL II								PC	
TEM/BULK								25mm	
TEM/DUST								37mm	
TEM/WATER								0.45µm	
PCM								0.80µm	
PLM						X		Other:	
LEAD									
OTHER:									

Results to: Charlie Hughart

Return Samples Yes___ No X

Invoice to: Law Engineering

Phone: (704) 357-5618

Fax: (704) 357-8637

Written Report To: Charlie Hughart

Pager:

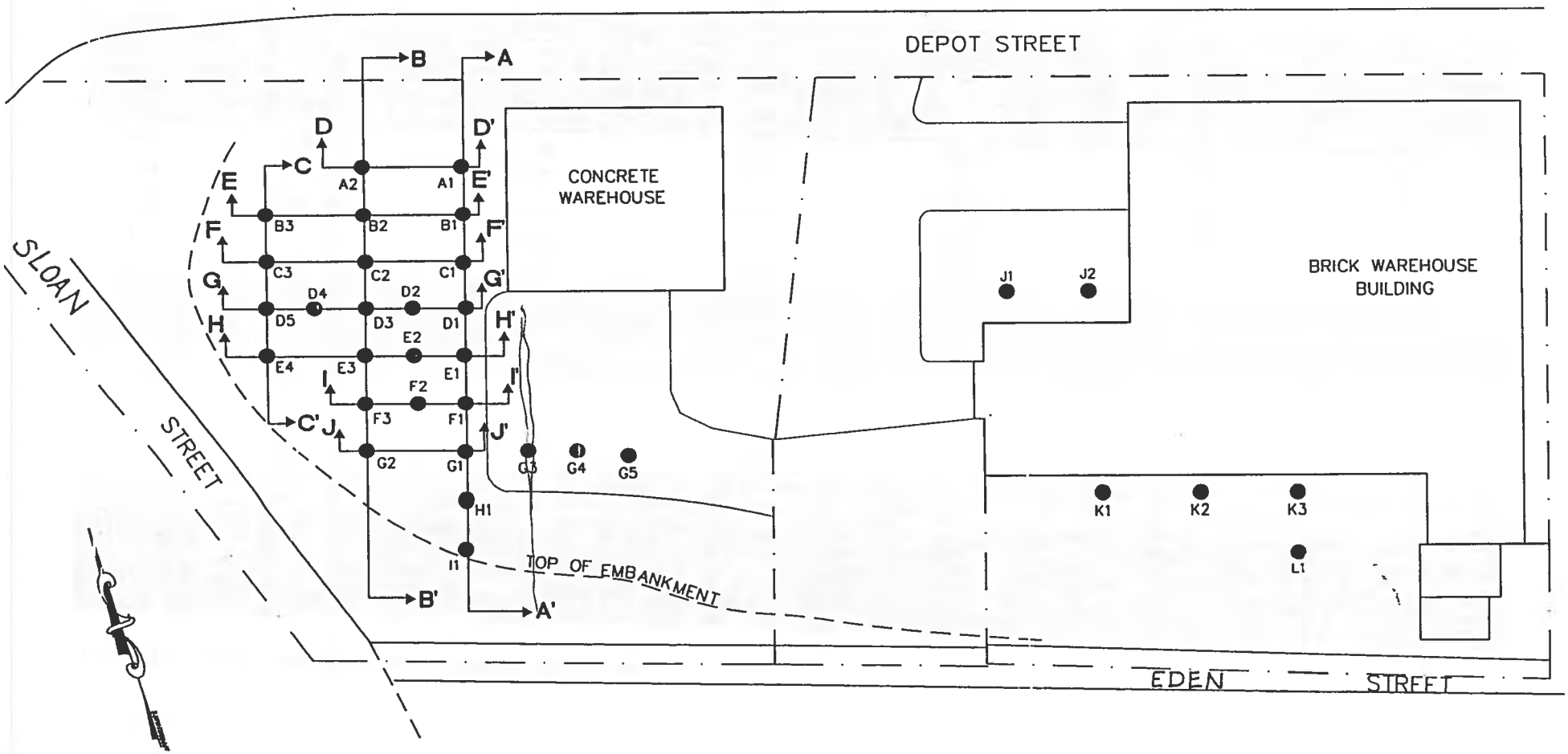
Comments:

Sample I.D.	Sample Location (I)nside/(O)utside/(B)ank/(P)ersonal/(E)xcursion	Start Time	Stop Time	Total Time	X	Liters/Min.	=	Liters/Min.	Date Collected
B-1	(O) Beneath soil								1/24/02
B-13.1									
B-13.2									
B-13.3									

Relinquished By (Signature)	Date	Received By (Signature)	Date
[signature]	1/29/02		JAN 30 2002

RECEIVED

NEW YORK • LOS ANGELES • BOSTON • ALBANY • RICHMOND



80 40 0 80

APPROXIMATE SCALE IN FEET

EXPLANATION

● APPROXIMATE SITE LOCATION BORING POINTS

SUBSURFACE PROFILE LINE

LAW
ENGINEERING & ENVIRONMENTAL SERVICES
CHARLOTTE, NORTH CAROLINA

SITE PLAN
TOWN OF DAVIDSON
DAVIDSON, NORTH CAROLINA

Table 1: Surface and Asbestos Material Elevations

BORING #	GROUND SURFACE ELEVATION*	DEPTH TO TOP OF ASBESTOS LAYER	DEPTH TO BOTTOM OF ASBESTOS LAYER	ELEVATION OF TOP OF ASBESTOS	ELEVATION OF BOTTOM OF ASBESTOS	TOTAL ASBESTOS THICKNESS
A1	107.64	0.15	0.25	107.49	107.39	0.10
A2	104.24	0.50	0.90	103.74	103.34	0.40
B1	107.33	0.00	0.00			0.00
B2	104.34	0.60	1.10	103.74	103.24	0.50
B3	102.46	0.60	3.90	101.86	98.56	3.30
C1	106.19	0.90	3.70	105.29	102.49	2.80
C2	103.72	0.50	0.90	103.22	102.82	0.40
C3	102.86	0.10	1.80	102.76	101.06	1.70
D1	104.20	0.50	5.60	103.70	98.6	5.10
D2	103.89	1.01	3.04	102.88	100.85	2.03
D3	103.38	1.00	8.50	102.38	94.88	7.50
D4	102.97	1.03	8.30	101.94	94.67	7.27
D5	102.17	1.40	5.00	100.77	97.17	3.60
E1	103.81	1.10	9.10	102.71	94.71	8.00
E2	103.63	1.02	7.50	102.61	96.13	6.48
E3	103.05	0.70	7.50	102.35	95.55	6.80
E4	102.95	1.00	3.10	101.95	99.85	2.10
F1	103.68	2.00	7.80	101.68	95.88	5.80
F2	103.15	1.01	8.70	102.14	94.45	7.69
F3	102.94	1.10	7.90	101.84	95.04	6.80
G1	103.15	1.50	7.30	101.65	95.85	5.80
G2	102.54	0.70	1.90	101.84	100.64	1.20
H1	102.33	1.30	6.00	101.03	96.33	4.70
I1	101.69	1.40	7.00	100.29	94.69	5.60

* Note: Ground surface elevations measured relative to arbitrary datum elevation of 100.00.

Prepared/Date: CH 2/18/02
Checked/Date: RCF 2-18-02