W. 3
11/14/96

US EPA RECORDS CENTER REGION 5
471557

EARTH TECH
5555 Glenwood Hills Pkwy SE
PO Box 0374
Grand Rapids, MI 49588-0374

FACSIMILE

To: Leah Evason
Company: US EPA

Date: 11/14/96
Fax #: (312) 886-0571
Phone #:

From: Liz Bartz
Location: **GRAND RAPIDS, MI**

Direct Dial #:
Sending From Fax #:
☒ (616) 942-6999 - Glenwood Bldg 1st floor
☐ (616) 940-4396 - Glenwood Bldg 2nd floor
☐ (616) 940-4397 - Glenwood Bldg 3rd floor
☐ (616) 949-6023 - Charlevoix Bldg
☐ (616) 954-3774 - Survey

Project #: 19740.04
Subject: Figures for Albion

Comments:

If you do not receive 3 pages (including cover page), please call us as soon as possible @
(616) 942-9600 - Glenwood Bldg 1st floor
(616) 940-4400 - Glenwood Bldg 2nd floor
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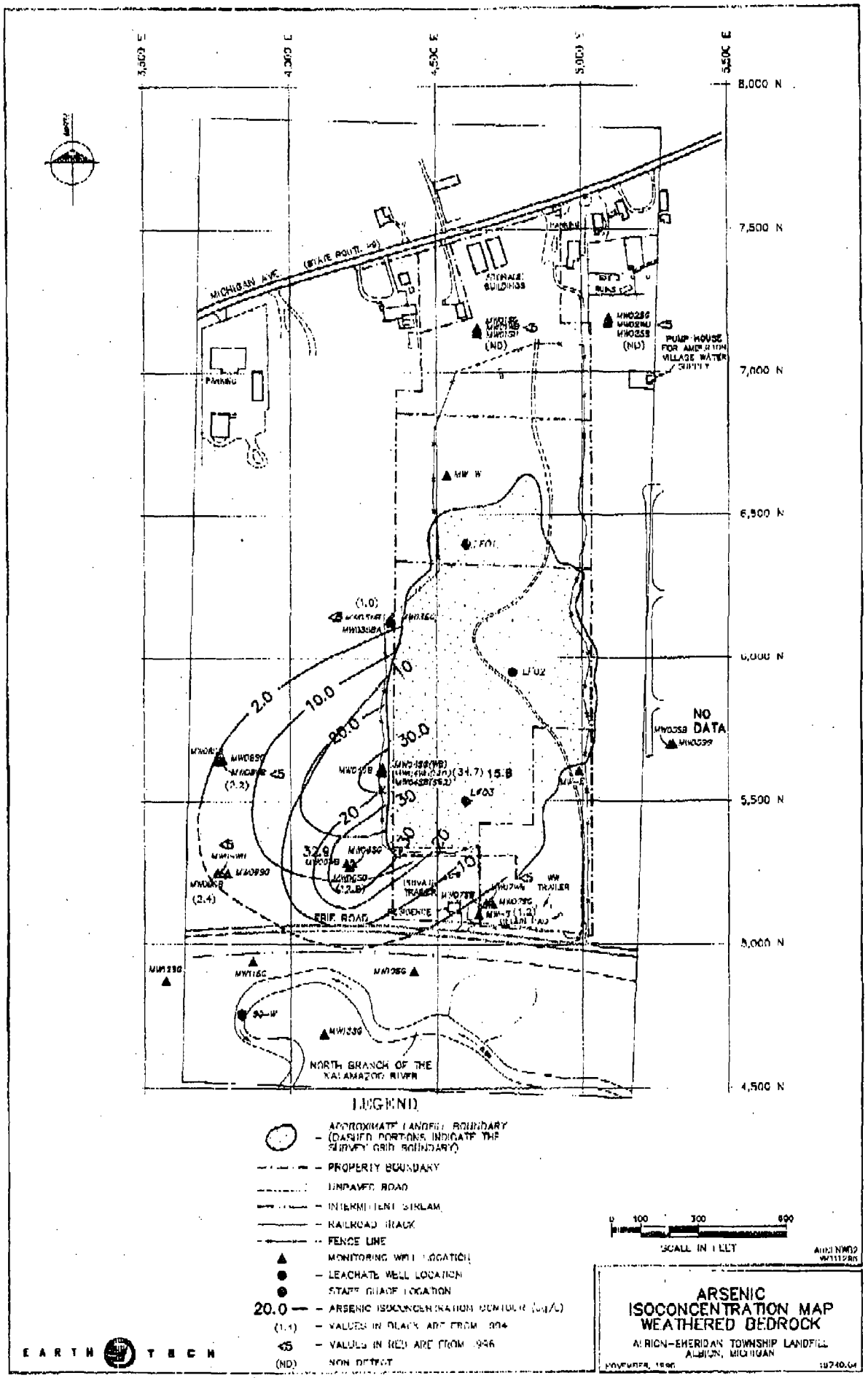
(616) 949-4300 - Charlevoix Bldg
(616) 954-3770 - Survey

EARTH TECH

FAX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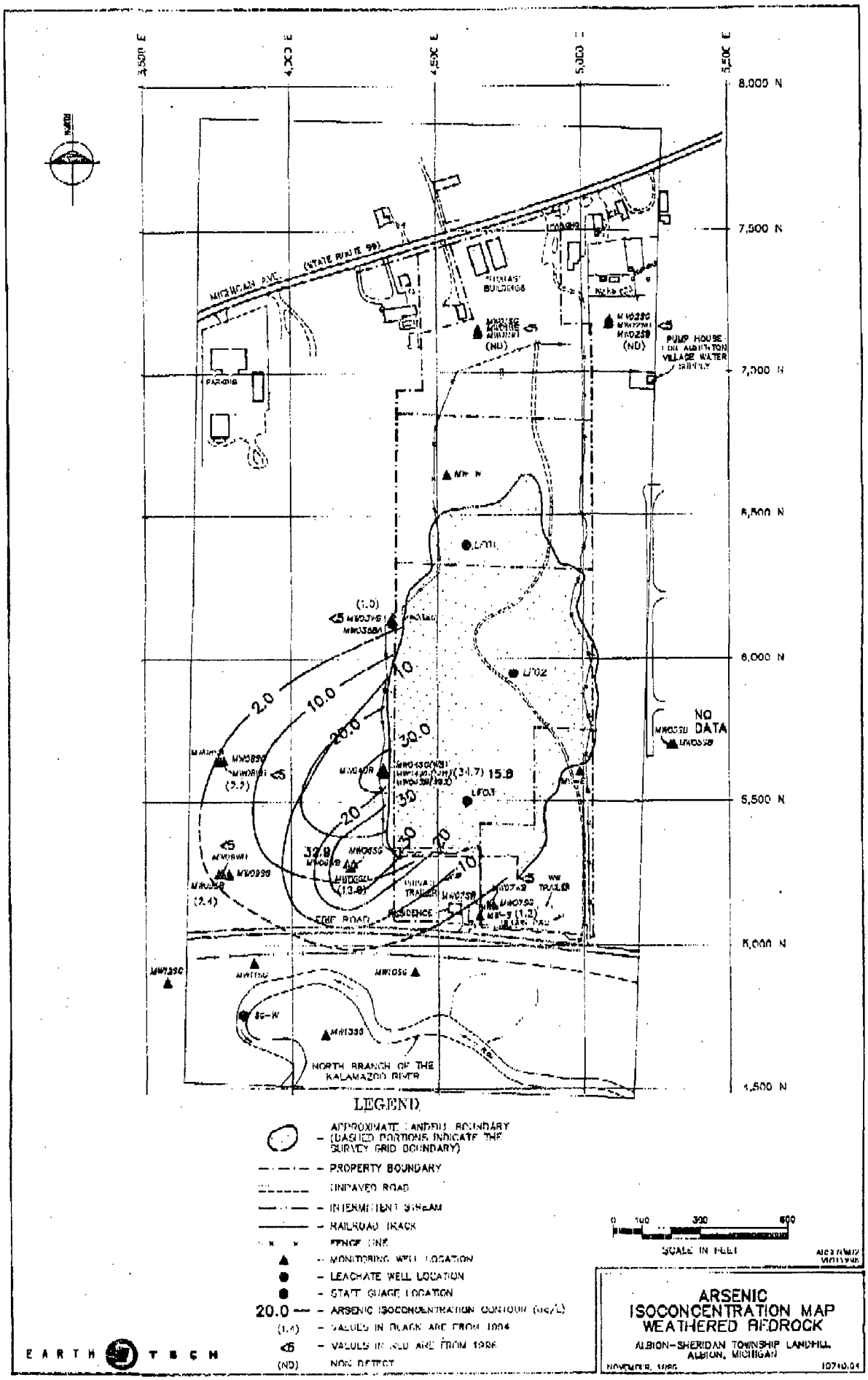
4,500 N
MICHIGAN AVE. (STATE ROUTE 99)
STORAGE BUILDINGS
PUMP HOUSE FOR AMERITON VILLAGE WATER SUPPLY
PARKING
NO DATA
2.0
10.0
20.0
30.0
15.8
32.9
(34.7)
(1.0)
(2.2)
(2.4)
(ND)
ERIE ROAD
RESIDENCE
TRAILER
NORTH BRANCH OF THE KALAMAZOO RIVER
LEGEND
APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
PROPERTY BOUNDARY
UNPAVED ROAD
INTERMITTENT STREAM
RAILROAD TRACK
FENCE LINE
MONITORING WELL LOCATION
LEACHATE WELL LOCATION
STAFF GAUGE LOCATION
20.0 — ARSENIC ISOCONCENTRATION CONTOUR (ug/L)
(1.1) — VALUES IN BLACK ARE FROM 1994
<5 — VALUES IN RED ARE FROM 1996
(ND) NON DETECT
0 100 200 400
SCALE IN FEET
EARTH TECH
ARSENIC ISOCONCENTRATION MAP WEATHERED BEDROCK
ALBION-EMERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN
NOVEMBER, 1996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4,500 E
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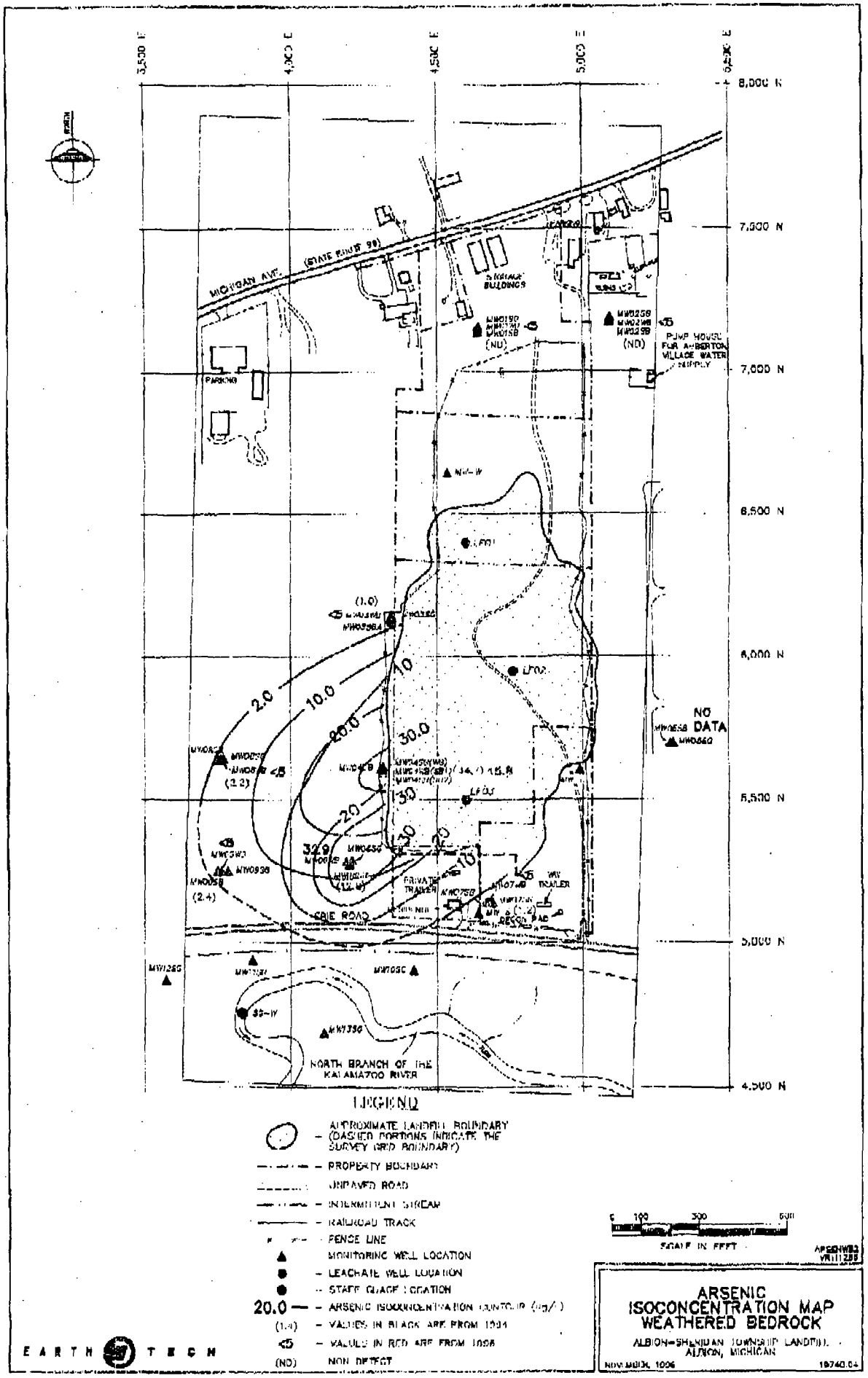
5,500 E
8,000 N
7,500 N
7,000 N
6,500 N
6,000 N
5,500 N
5,000 N
4,500 N
MICHIGAN AVE. (STATE ROUTE 99)
PUMP HOUSE FOR ALBION VILLAGE WATER SUPPLY
NO DATA
2.0
10.0
20.0
30.0
15.8
32.8
(13.8)
(2.4)
(1.0)
(ND)
<5
NORTH BRANCH OF THE KALAMAZOO RIVER
LEGEND
APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
PROPERTY BOUNDARY
UNPAVED ROAD
INTERMITTENT STREAM
RAILROAD TRACK
FENCE LINE
MONITORING WELL LOCATION
LEACHATE WELL LOCATION
STAFF GUAGE LOCATION
20.0 — ARSENIC ISOCONCENTRATION CONTOUR (ug/L)
(1.4) — VALUES IN BLACK ARE FROM 1994
<5 — VALUES IN RED ARE FROM 1996
(ND) NON DETECT
0 100 300 600
SCALE IN FEET
EARTH TECH
ARSENIC
ISOCONCENTRATION MAP
WEATHERED BEDROCK
ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN
NOVEMBER, 1996
10710.04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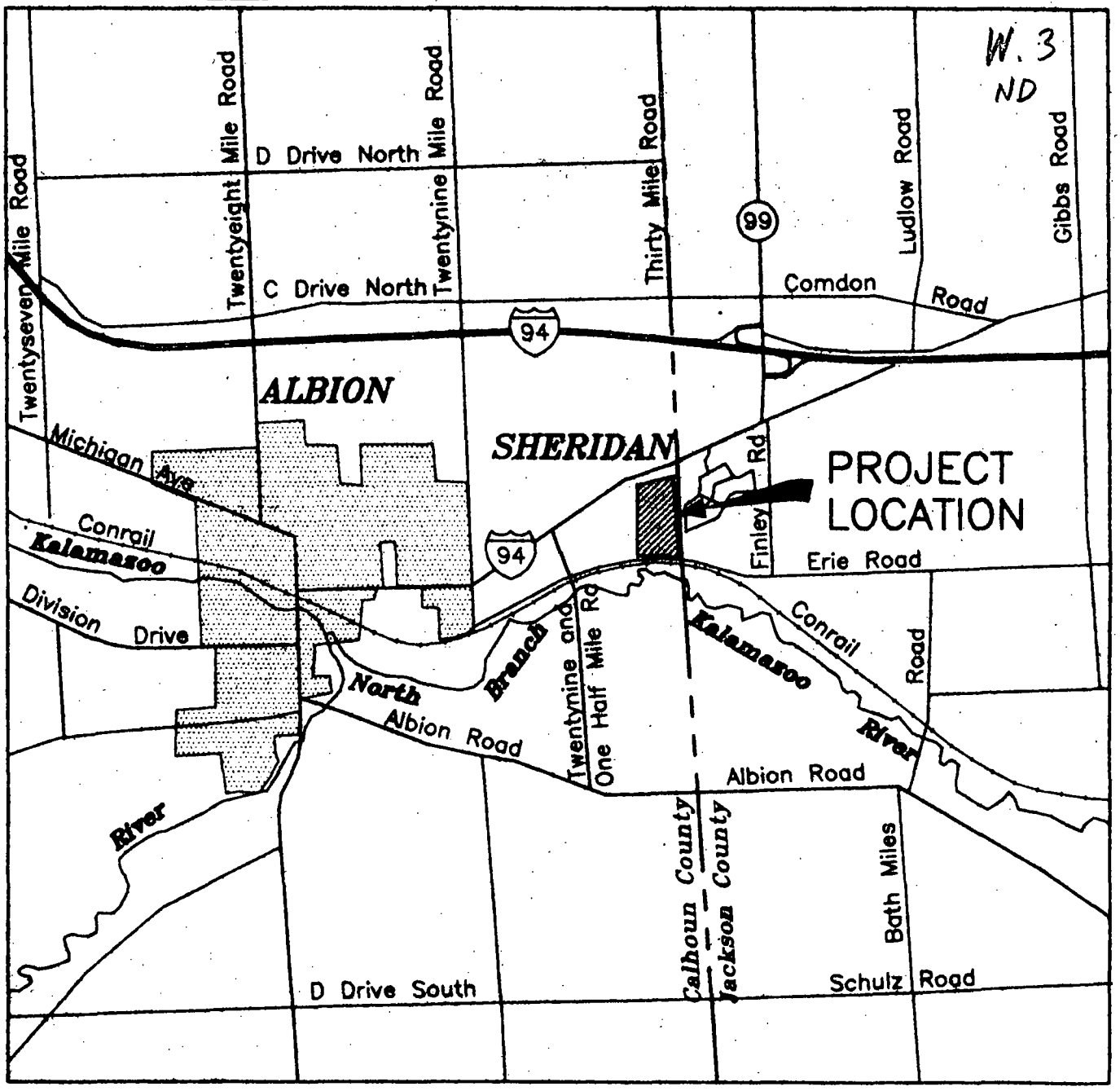
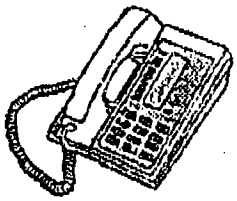
4,000 E
4,500 E
5,000 E
5,500 E
8,000 N
7,500 N
7,000 N
6,500 N
6,000 N
5,500 N
5,000 N
4,500 N
MICHIGAN AVE. (STATE HWY 99)
PARKING
PUMP HOUSE FOR ALBERTON VILLAGE WATER SUPPLY
NO DATA
2.0
10.0
20.0
30.0
32.9
(2.2)
(2.4)
(1.0)
CRIE ROAD
NORTH BRANCH OF THE KALAMAZOO RIVER
LEGEND
APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
PROPERTY BOUNDARY
UNPAVED ROAD
INTERMITTENT STREAM
RAILROAD TRACK
FENCE LINE
MONITORING WELL LOCATION
LEACHATE WELL LOCATION
STAFF GAGE LOCATION
20.0 — ARSENIC ISOCONCENTRATION CONTOUR (ug/L)
(1.4) — VALUES IN BLACK ARE FROM 1994
<5 — VALUES IN RED ARE FROM 1996
(ND) NON DETECT
0 100 300 600
SCALE IN FEET
ARSENIC ISOCONCENTRATION MAP WEATHERED BEDROCK
ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN
NOVEMBER 1996
19740.04
EARTH TECH


W. 3
ND
Twentyseven Mile Road
Twentyeight Mile Road
Twentynine Mile Road
Thirty Mile Road
Ludlow Road
Gibbs Road
D Drive North
C Drive North
Comdon Road
99
94
ALBION
SHERIDAN
Michigan Ave
Conrail
Kalamazoo
Division Drive
PROJECT LOCATION
Finley Rd
Erie Road
Conrail
Road
Kalamazoo
River
North Branch
Twentynine and One Half Mile Rd
Albion Road
Albion Road
River
Calhoun County
Jackson County
Bath Miles
D Drive South
Schulz Road

W. 3
NP
MICHIGAN
Wisconsin
ALBION
Calhoun
County
Illinois
Indiana
Ohio

W. 3
4/2/97



Facsimile Cover Sheet

To: Jon Peterson
Company: U.S. EPA
Phone: 312-353-1264
Fax: 312-886-4071

From: Margie Frisch
Company: MI DEQ ERD, Rose Lake
Phone: 517-373-0907
Fax: 517-641-6663

Date: 4/2/97
Pgs including cover pg: 3

Comments:

DEQ

MI DEPARTMENT OF ENVIRONMENTAL QUALITY

Environmental Response Division
Geological Services Section, Rose Lake
8562 East Stoll Road
East Lansing, MI 48823

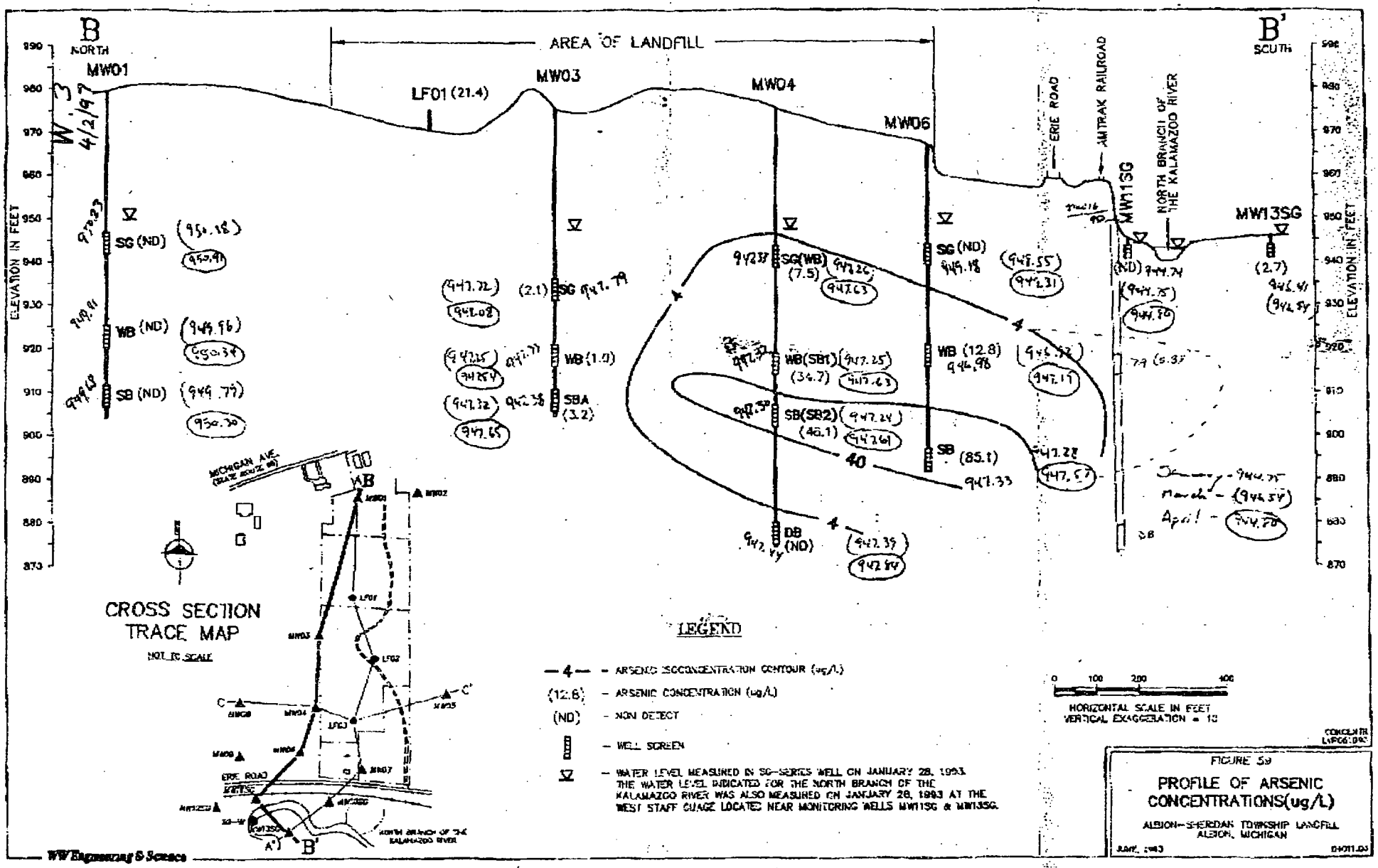
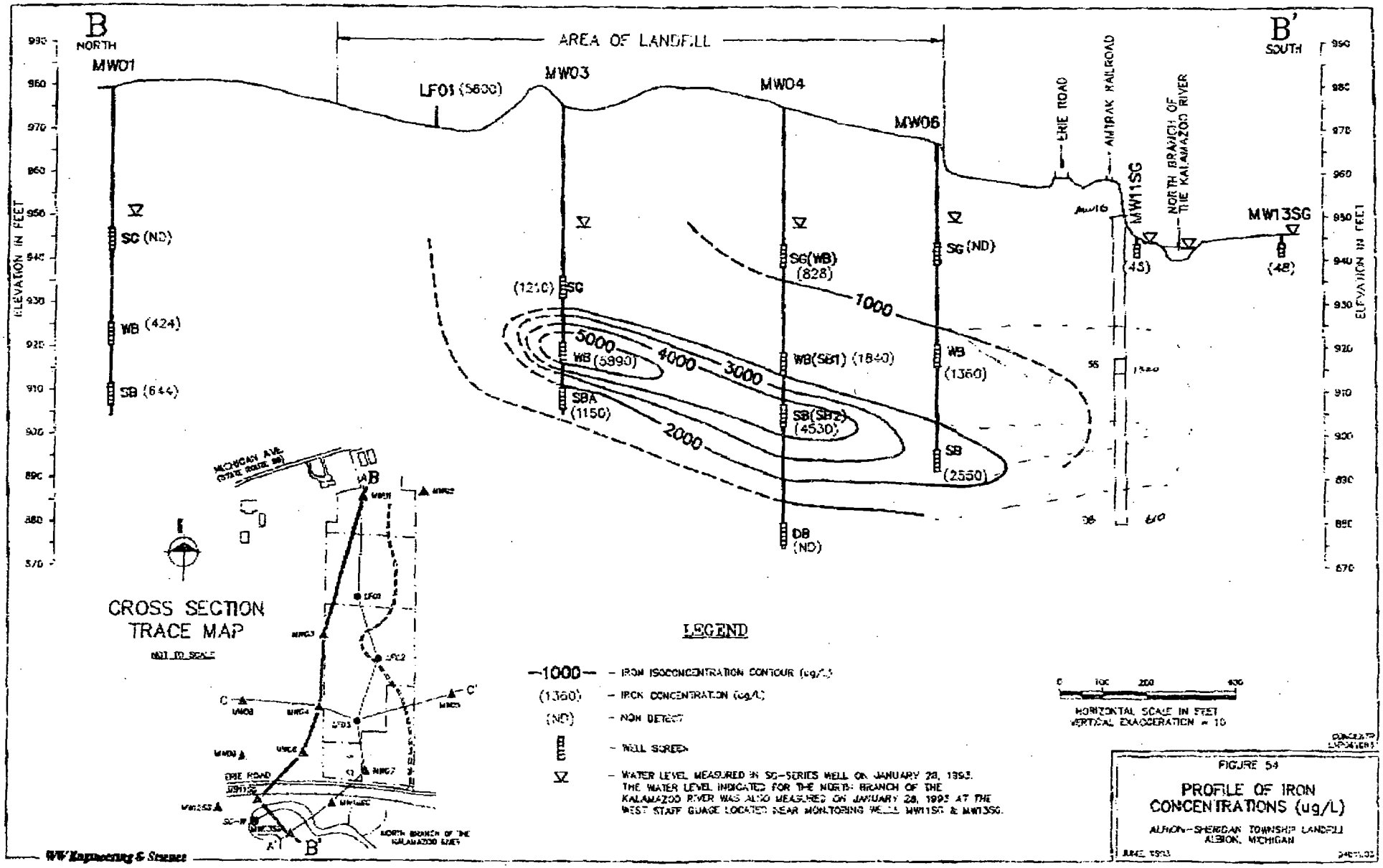


FIGURE 5B

PROFILE OF ARSENIC CONCENTRATIONS(ug/L)

ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

JANUARY 1993


B
NORTH
B'
SOUTH
AREA OF LANDFILL
MW01
LF01 (5600)
MW03
MW04
MW06
ERIE ROAD
AMTRAK RAILROAD
NORTH BRANCH OF THE KALAMAZOO RIVER
MW11SG
MW13SG
ELEVATION IN FEET
SC (ND)
WB (424)
SB (644)
(1210) SG
WB (5890)
SBA (1150)
SG(WB) (828)
WB(SB1) (1840)
SB(SB2) (4530)
DB (ND)
SG (ND)
WB (1360)
SB (2550)
(43)
(48)
1000
2000
3000
4000
5000
CROSS SECTION TRACE MAP
LEGEND
—1000— - IRON ISOCONCENTRATION CONTOUR (ug/L)
(1360) - IRON CONCENTRATION (ug/L)
(ND) - NON DETECT
- WELL SCREEN
- WATER LEVEL MEASURED IN SG-SERIES WELL ON JANUARY 28, 1993. THE WATER LEVEL INDICATED FOR THE NORTH BRANCH OF THE KALAMAZOO RIVER WAS ALSO MEASURED ON JANUARY 28, 1993 AT THE WEST STAFF GUAGE LOCATED NEAR MONITORING WELLS MW11SG & MW13SG.
HORIZONTAL SCALE IN FEET
VERTICAL EXAGGERATION = 10
FIGURE 54
PROFILE OF IRON CONCENTRATIONS (ug/L)
ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN
JUNE 1993
W/W Engineering & Science

W. 3
5/9/97

COVER SHEET

FAX

To: Liz Bartz
Fax #: 616-942-6499
Subject: Contour Maps
Date: May 9, 1997
Pages: 7, including this cover sheet.

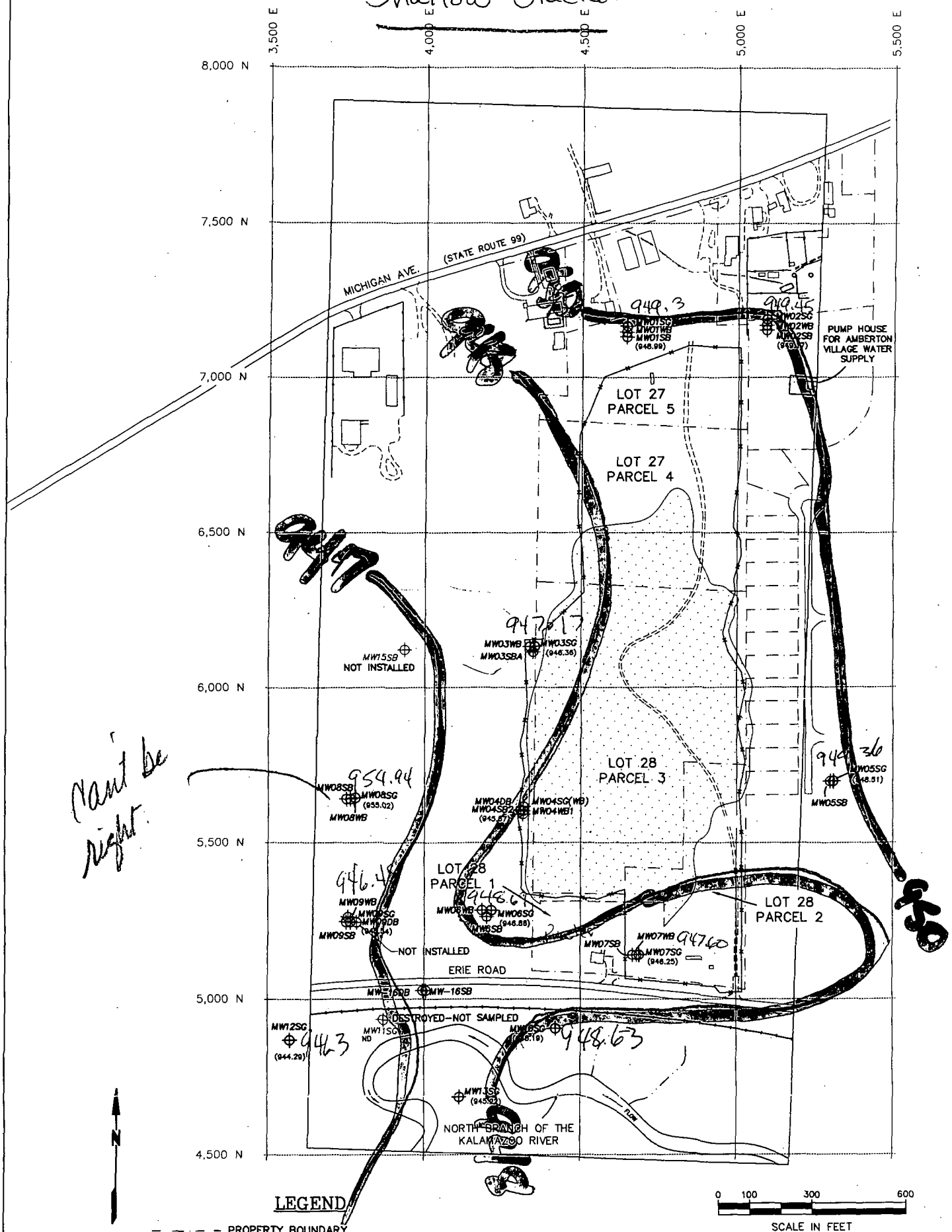
COMMENTS:

From the desk of...

Jon Peterson
RPM
USEPA SR-6J
77 West Jackson
Chicago, IL 60604

312-353-1264
Fax: 312-886-4071

Shallow Glacial



Can't be right.

LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
- UNPAVED ROAD
- INTERMITTENT STREAM

ALBION–SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

REVISION 1

Shallow bedrock

3,500 E
4,000 E
4,500 E
5,000 E
5,500 E

8,000 N
7,500 N
7,000 N
6,500 N
6,000 N
5,500 N
5,000 N
4,500 N

MICHIGAN AVE. (STATE ROUTE 99)

948.8
MW01SG
MW01WB
MW01SB
(948.99)

949.94
MW02SG
MW02WB
MW02SB
(949.17)

PUMP HOUSE FOR AMBERTON VILLAGE WATER SUPPLY

LOT 27
PARCEL 5

LOT 27
PARCEL 4

946.8
MW03WB
MW03SB
MW03SBA
(946.36)

MW15SB
NOT INSTALLED

LOT 28
PARCEL 3

947.31
MW05SG
(948.51)
MW05SB

946.75
MW08SB
MW08SG
(955.02)
MW08WB

946.75
MW04DB
MW04SB2
MW04SG(WB)
MW04WB1
(945.87)

LOT 28
PARCEL 1

946.72
MW09WB
MW09SG
MW09DB
(945.54)
MW09SB

MW06WB
MW06SG
(946.86)
MW6SB

Puddle

946.64
MW07WB
MW07SB
MW07SG
(946.25)

LOT 28
PARCEL 2

NOT INSTALLED

946.42
ERIE ROAD

MW-18DB
MW-18SB

DESTROYED, NOT SAMPLED

MW12SG
(944.29)

MW11SG
ND

MW10SG
(945.19)

MW13SG
(945.22)

NORTH BRANCH OF THE KALAMAZOO RIVER

N

0 100 300 600
SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
- UNPAVED ROAD
- INTERMITTENT STREAM

ALBION–SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

REVISION 1

weathered bedrock

3,500 E
4,000 E
4,500 E
5,000 E
5,500 E

8,000 N
7,500 N
7,000 N
6,500 N
6,000 N
5,500 N
5,000 N
4,500 N

MICHIGAN AVE. (STATE ROUTE 99)

948
950
946

948.8
949.21

MW01SG
MW01WB
MW01SB
(948.99)

MW02SG
MW02WB
MW02SB
(949.17)

PUMP HOUSE FOR ALBERTON VILLAGE WATER SUPPLY

LOT 27
PARCEL 5

LOT 27
PARCEL 4

946.69

MW03WB
MW03SG
MW03SBA
(946.36)

MW15SB
NOT INSTALLED

946.75

MW08SB
MW08SG
(955.02)
MW08WB

947.03

LOT 28
PARCEL 3

MW04DB
MW04SB2
(945.87)
MW04SG(WB)
MW04WB1

MW05SG
(948.51)
MW05SB

LOT 28
PARCEL 1

946.43

MW09WB
MW09SG
MW09DB
(945.54)
MW09SB

946.43

MW06WB
MW06SG
(946.88)
MW6SB

Water = 946.65

MW07SB
MW07WB
MW07SG
(948.25)

NOT INSTALLED

LOT 28
PARCEL 2

ERIE ROAD

MW-16DB
MW-16SB

DESTROYED-NOT SAMPLED

MW12SG
(944.29)

MW10SG

MW13SG
(945.22)

FLOW

NORTH BRANCH OF THE KALAMAZOO RIVER

N

LEGEND

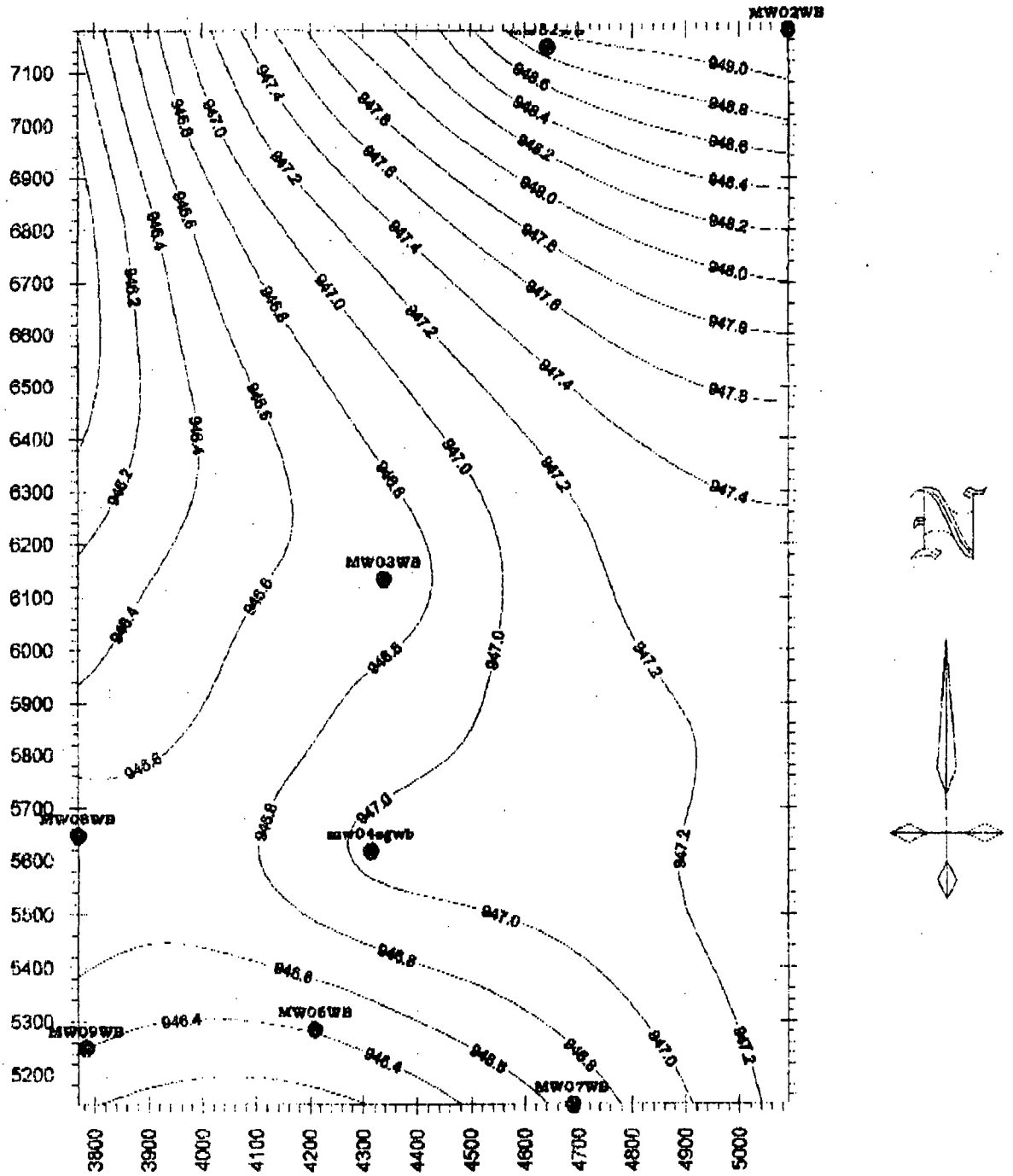
- PROPERTY BOUNDARY
- APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
- UNPAVED ROAD
- INTERMITTENT STREAM

0 100 300 600
SCALE IN FEET

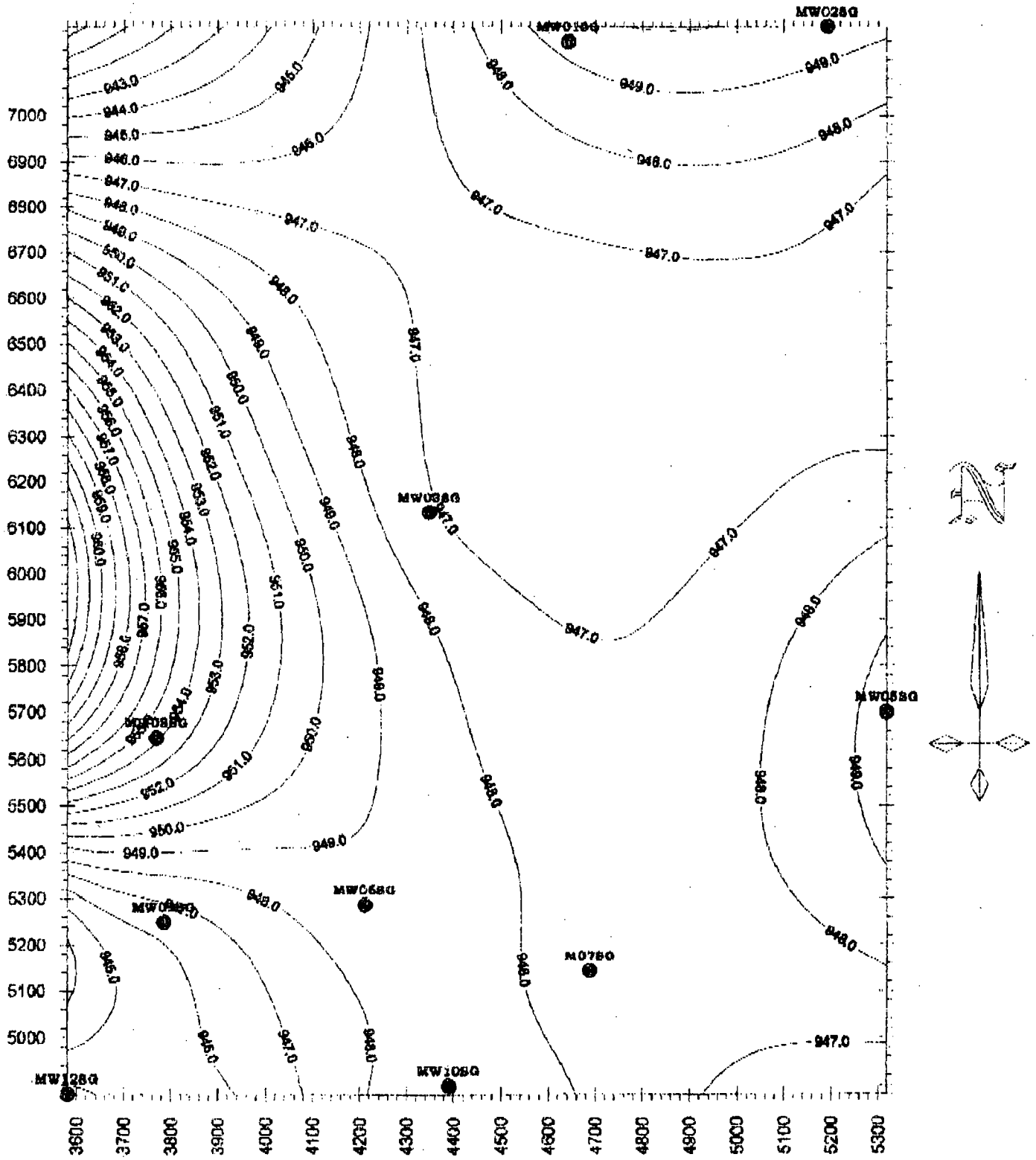
ALBION–SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

REVISION 1

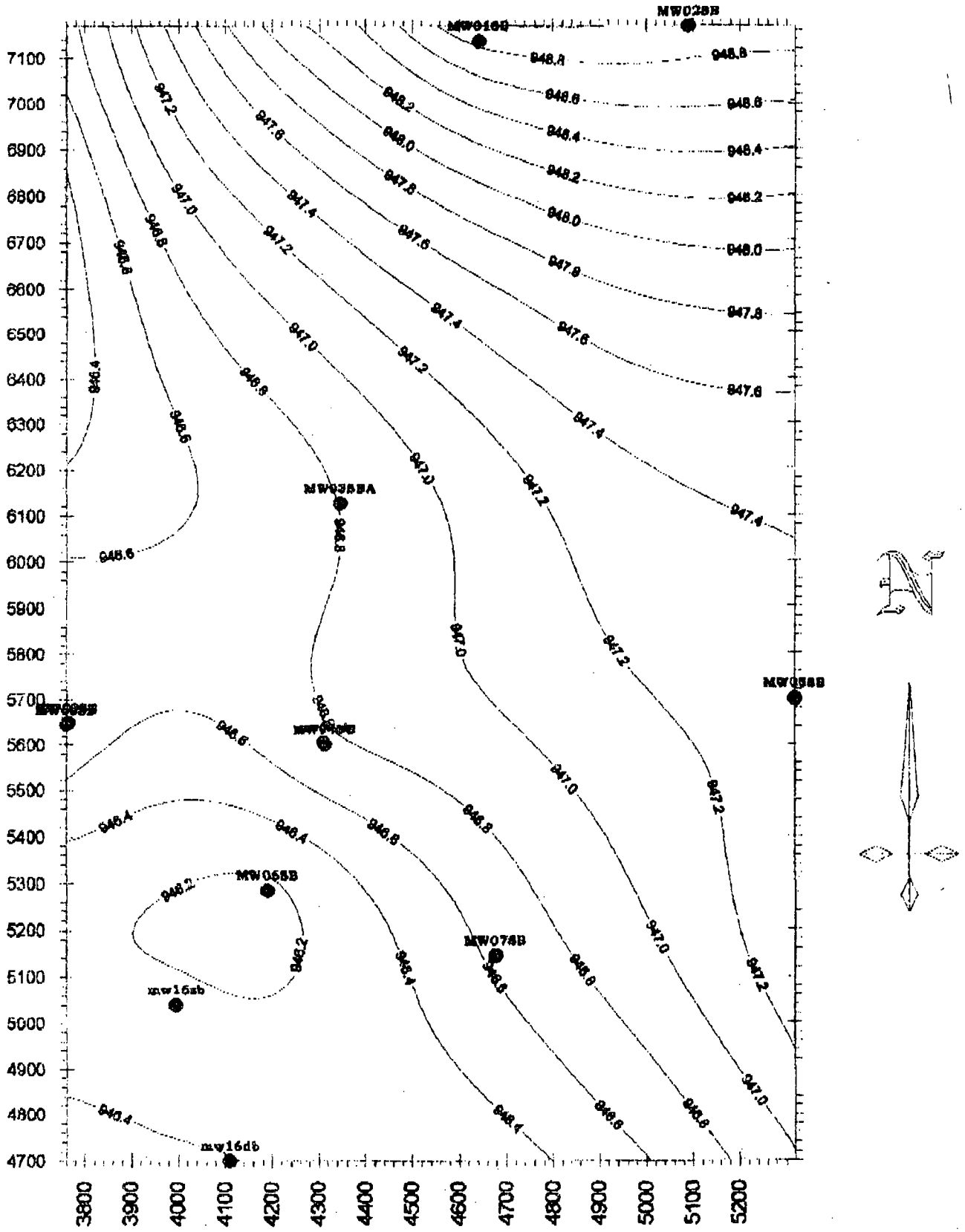
Albion-Sheridan Landfill
Weathered Bedrock Aquifer Contour Map
March, 1997



Albion-Sheridan Landfill
Shallow Glacial Aquifer Contour Map
March, 1997



Albion-Sheridan Landfill
Shallow Bedrock Contour Map
March, 1997



W, 3
2/17/93

FAX

WW Engineering & Science
A Summit Company

5555 Glenwood Hills Parkway SE
PO Box 874
Grand Rapids, MI 49588-0874
616/942-9600 Fax 616/942-6499

Date: 2-17-93

Leadsheet + 1 Page(s)

Name of Recipient(s): Mary Beth Novy

Company: EPA Division:

FAX Number: 312-886-4071 Phone Number: 312-353-7556

Name of Sender: Liz Lehl

Division: ESD

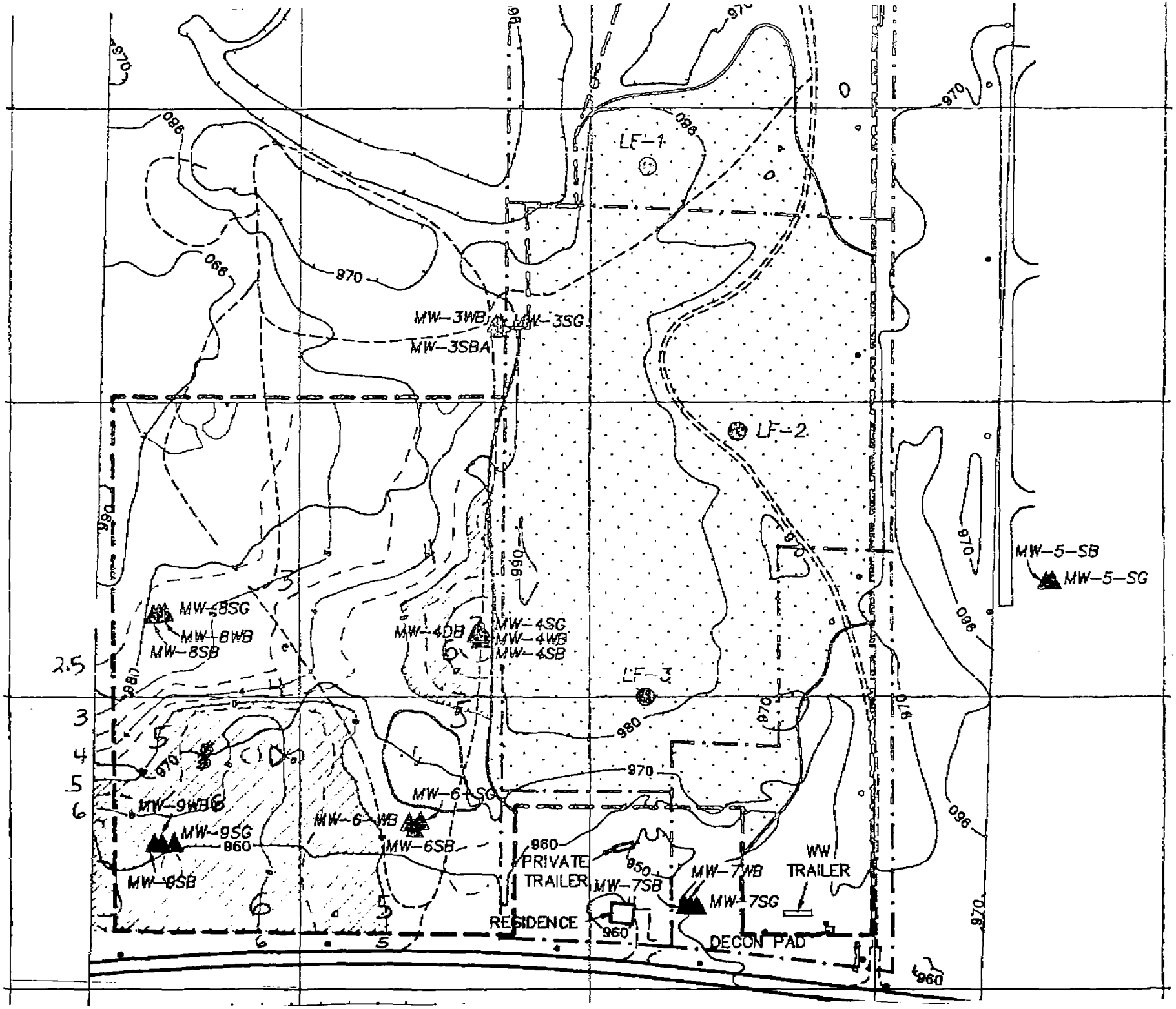
Project No.: 04011.02

FAX Number 616/942-6499

Subject: Albion - Sheridan

Comments: EM-34
contour map

Initials of FAX Operator: Date: Time:


6,500 N
6,000 N
5,500 N
5,000 N
LF-1
LF-2
LF-3
MW-3WB
MW-3SG
MW-3SBA
MW-5-SB
MW-5-SG
MW-8SG
MW-8WB
MW-8SB
MW-4DB
MW-4SG
MW-4WB
MW-4SB
MW-9WB
MW-9SG
MW-9SB
MW-6-SG
MW-6-WB
MW-6SB
PRIVATE TRAILER
RESIDENCE
MW-7SB
MW-7WB
MW-7SG
WW TRAILER
DECON PAD
970
960
950
980
990

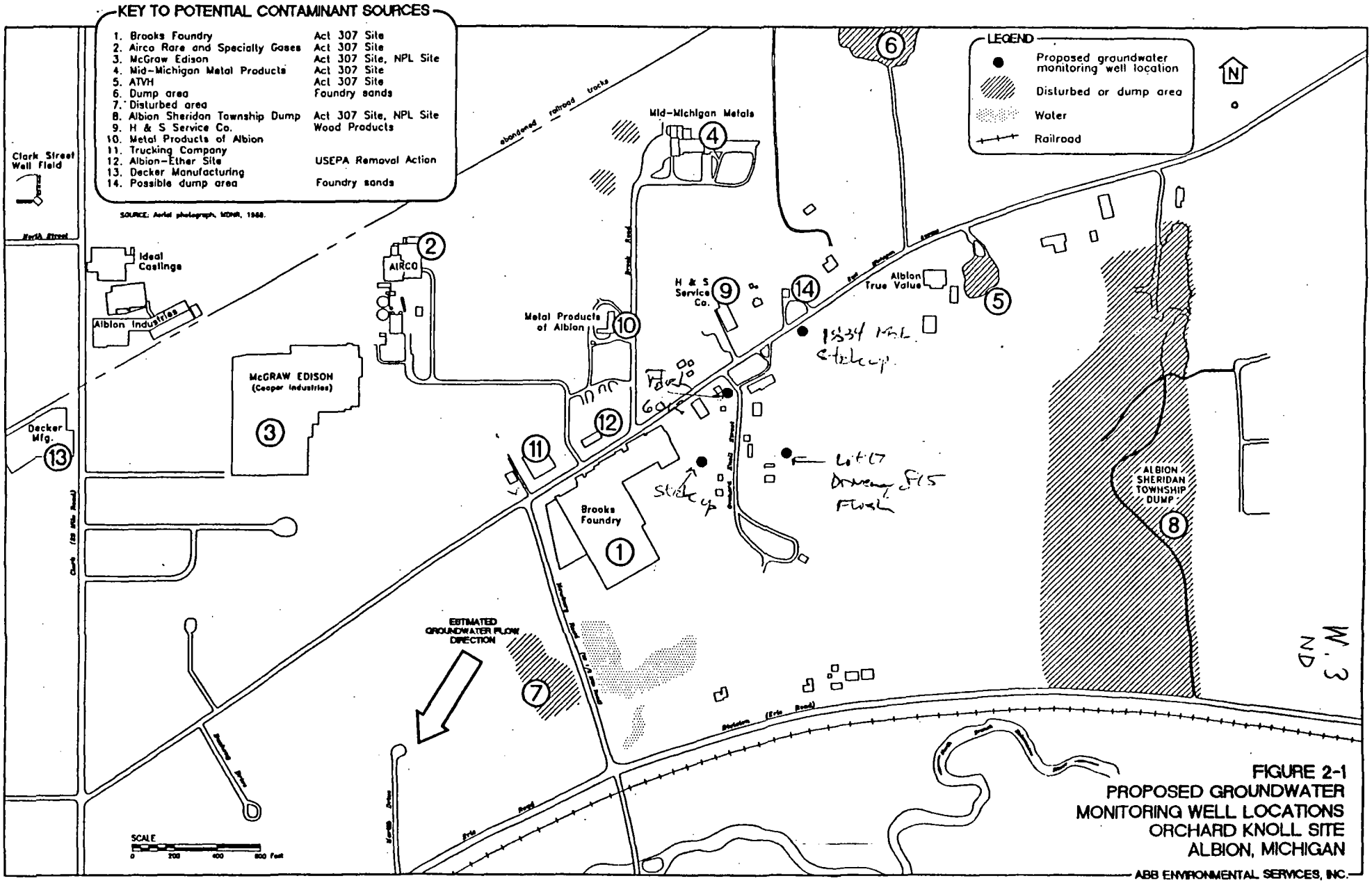


FIGURE 2-1
PROPOSED GROUNDWATER MONITORING WELL LOCATIONS
ORCHARD KNOLL SITE
ALBION, MICHIGAN

ABB ENVIRONMENTAL SERVICES, INC.

A9201042/8792-00/AC084

W. 3
6/1/92

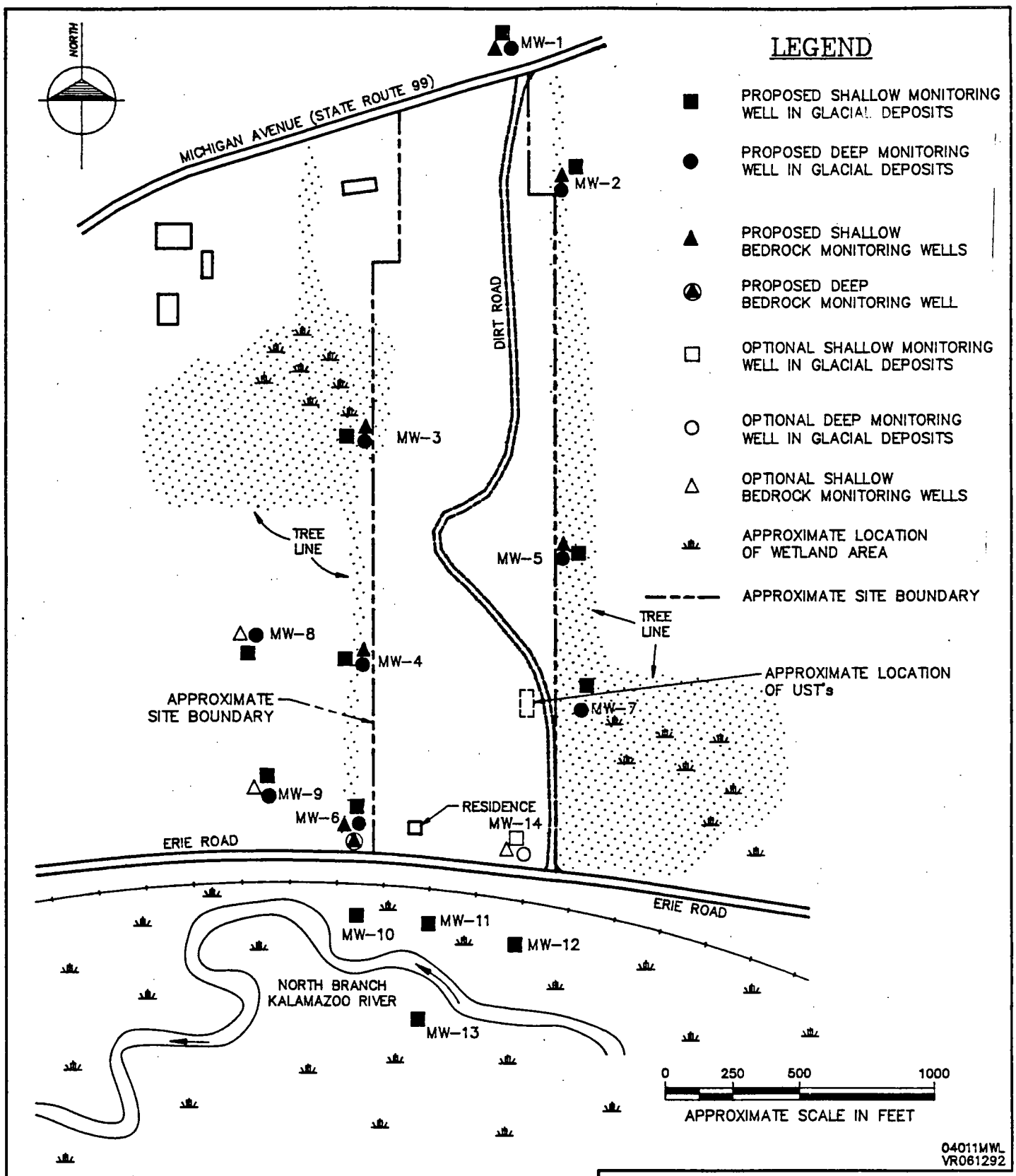


FIGURE 6

Monitoring Well Location Map

ALBION–SHERIDAN TOWNSHIP LANDFILL
Albion, Michigan

JUNE, 1992 04011

WW Engineering & Science, Inc.

W. 3
5/1/92

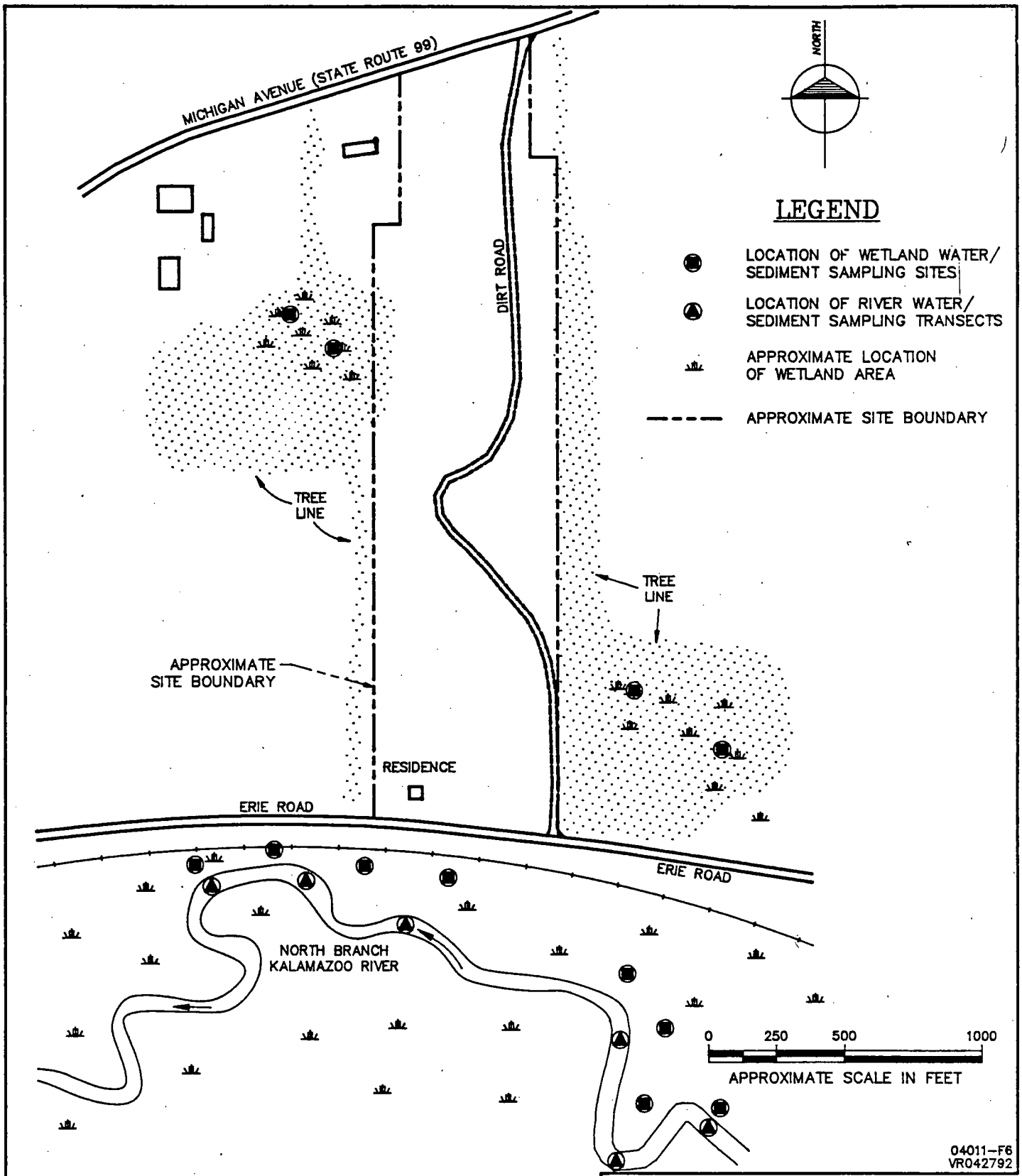


FIGURE 7

Surface Water/Sediment Sample Locations Map

ALBION-SHERIDAN TOWNSHIP LANDFILL
Albion, Michigan

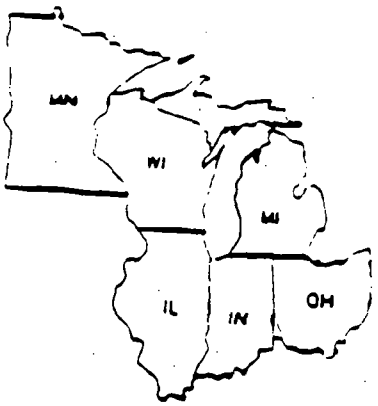
MAY, 1992 04011

WW Engineering & Science, Inc.

W. 3
ND

United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

EPA



Waste Management Division
Office of Superfund

Facsimile Cover Sheet
Panafax UF-640

Telephone Number
312-886-4071

To: Dr. Larry Daniels

Office phone: **Machine No:**

From: Mary Beth Novy

Office phone: (312) 353-7556 **Office code:**

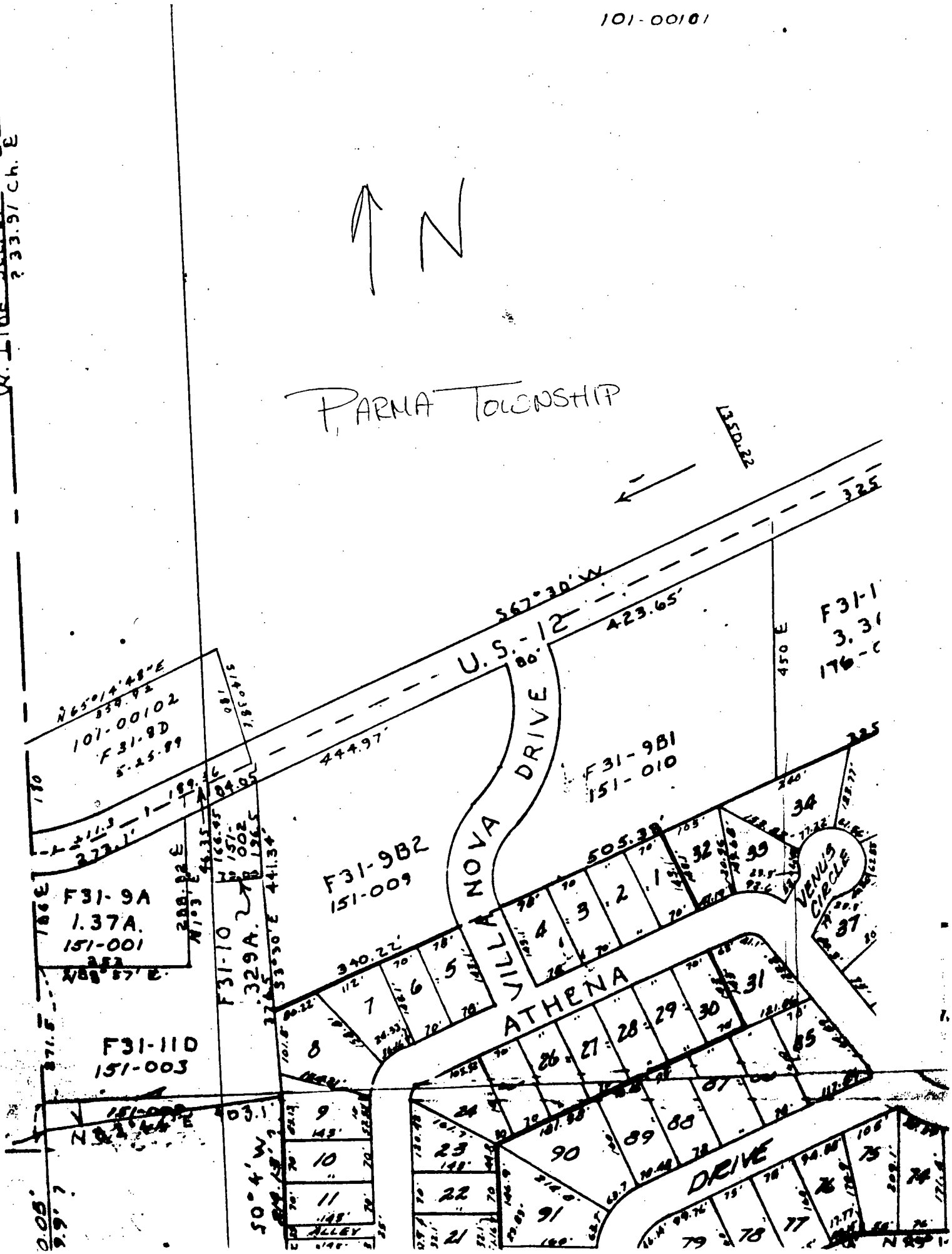
Date: **Number of pages, including cover:**

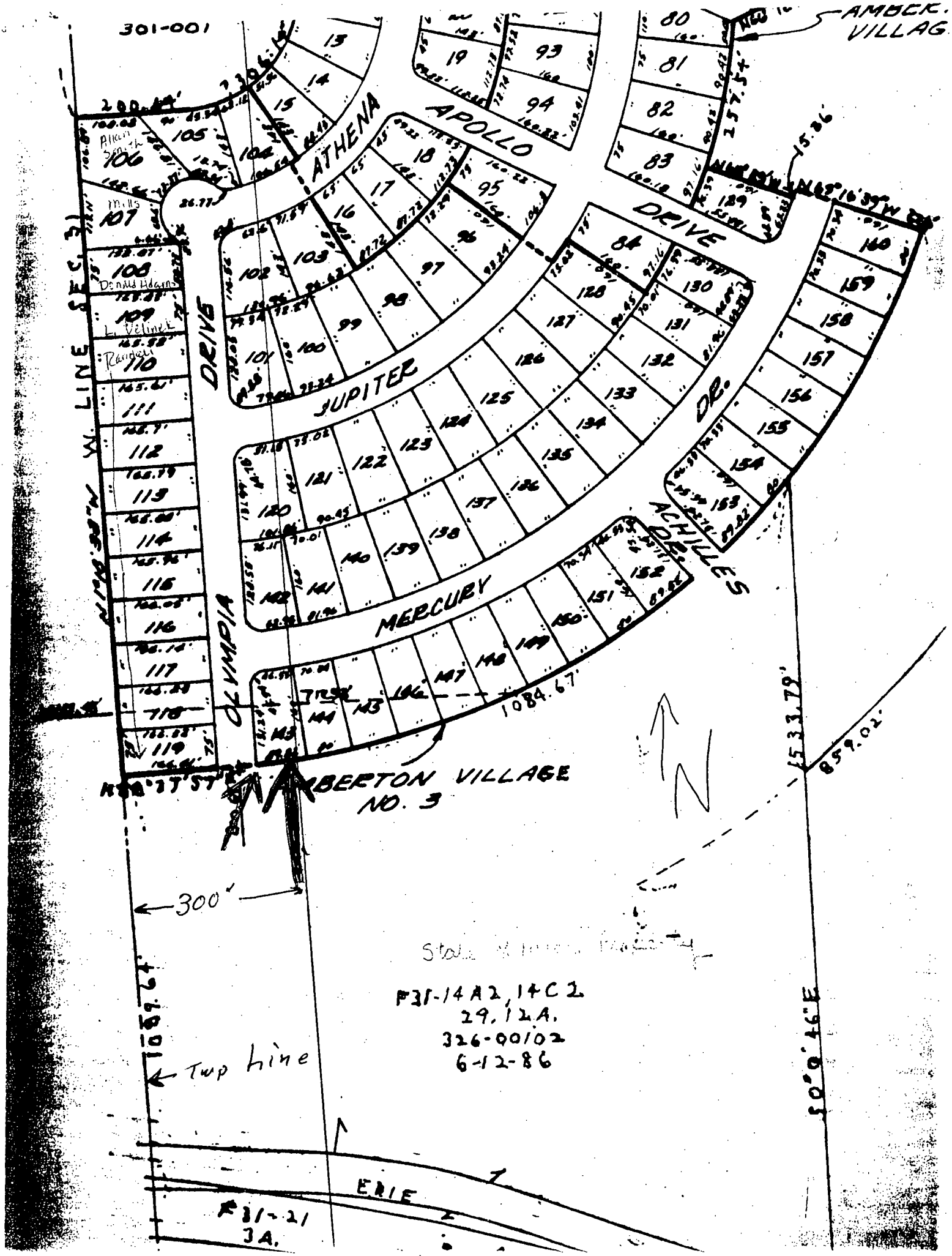
Message: Attached is the map of Amberton Village Subdivision we discussed this morning. Your parcel is 143, in the lower left hand corner of the 2nd page at the corner of Olympia and Mercury. The landfill is across the township line to the west. If you have any questions, please call me. Thanks.

(The two maps fit together)

Signature: MBNovy

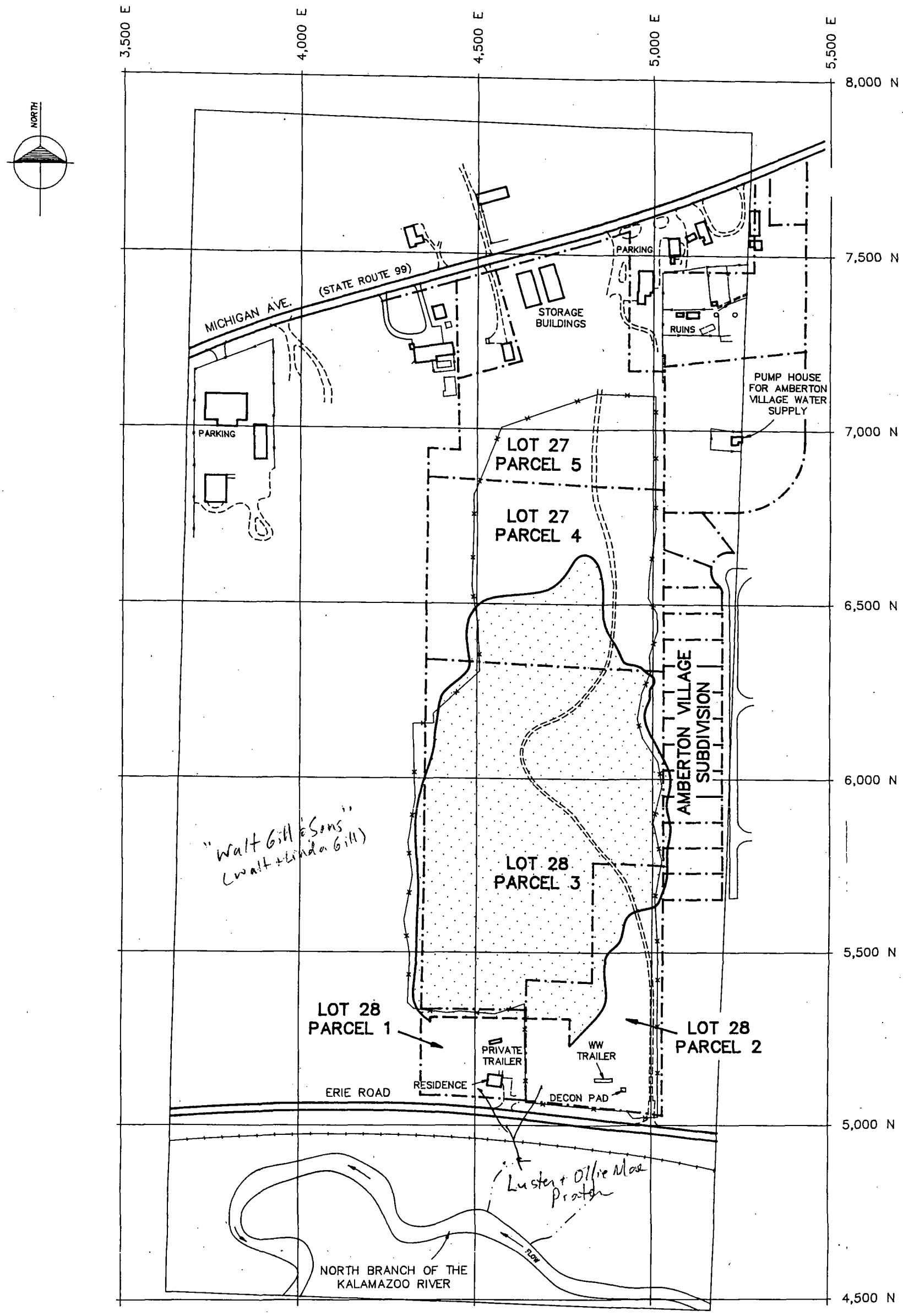
101-00101


W. Line Sec. 31
? 33.91 ch. E
N
PARMA TOWNSHIP
350.22
325
S67°30' W
U.S. 12
423.65'
444.97'
N65°14'48" E
101-00102
F31-8D
5-25-89
F31-9A
1.37A.
151-001
F31-9B2
151-009
F31-9B1
151-010
F31-10
329A.
F31-11D
151-003
VILLA NOVA DRIVE
ATHENA DRIVE
VENUS CIRCLE
ALLEY
340.22'
505.39'
450 E
F31-1
3.31
176-0


301-001
AMBER VILLAG
APOLLO
ATHENA
DRIVE
JUPITER
DR.
ACHILLES DR.
MERCURY
OLYMPIA DRIVE
W. LINE SEC. 31
N 1°38'55" W
N 88°37'57" W
BERTON VILLAGE NO. 3
1084.67'
1533.79'
859.02'
300'
S 0°0'46" E
N 89°59'24"
Twp line
ERIE
F31-21 3A.
F31-14A2, 14C2, 29, 12A, 326-00102 6-12-86

ALBION MAP

Copy to mark up w/ current property owners



LEGEND

PARCEL #	OWNER
1.	LUSTER/OLLIE MAE PRATTER
2.	LUSTER/OLLIE MAE PRATTER
3.	STATE OF MICHIGAN
4.	STATE OF MICHIGAN
5.	JOE/LUELLA FITZPATRICK

- APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
- PROPERTY BOUNDARY
- UNPAVED ROAD
- INTERMITTENT STREAM
- RAILROAD TRACK
- FENCE LINE

0 100 300 600

SCALE IN FEET

ALB-BM
LVP120393

FIGURE 2

PROPERTY BOUNDARY MAP

ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

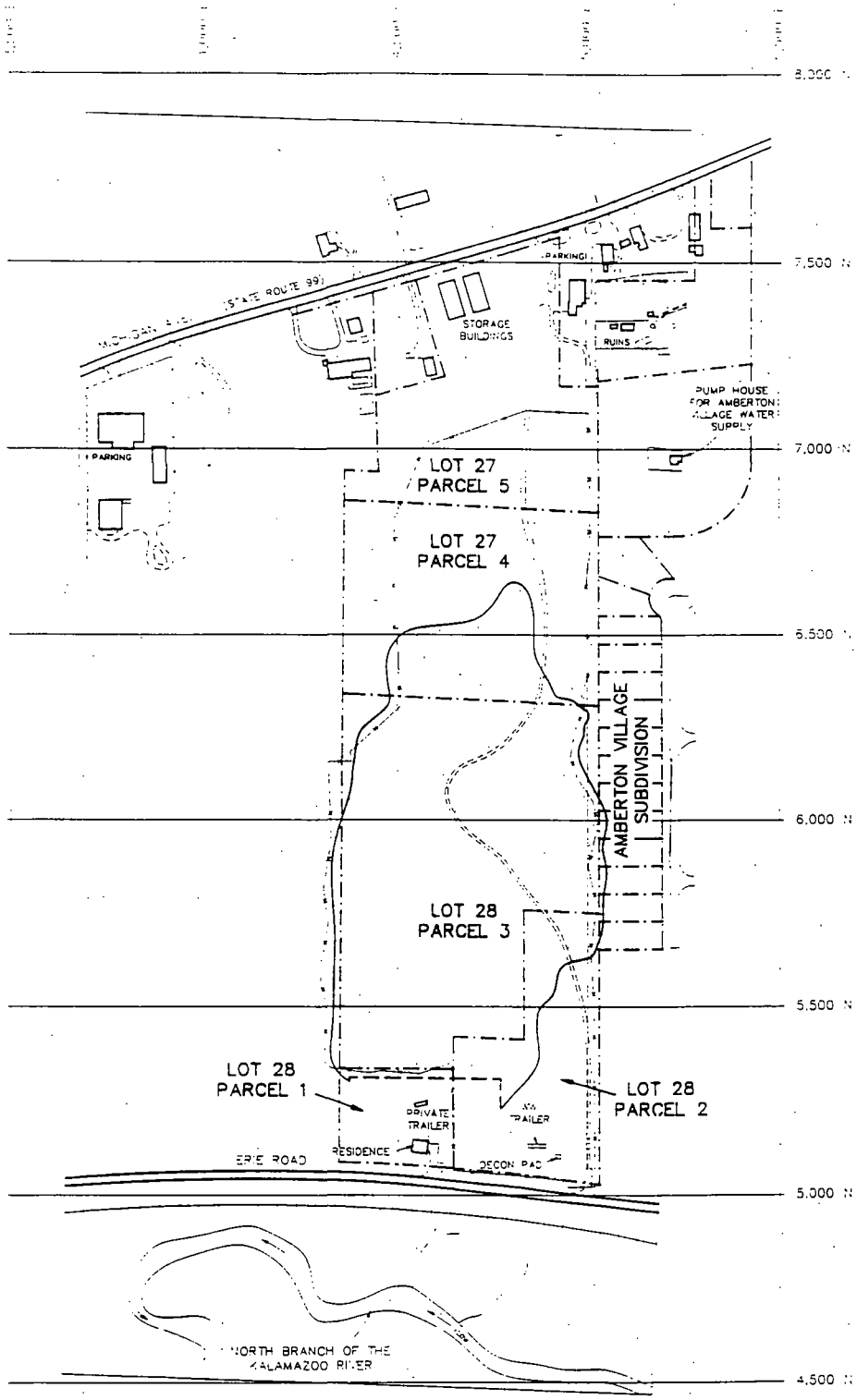
DECEMBER, 1993

04011.03

WW Engineering & Science

W.3
12/1/93

W. 3
12/1/93



LEGEND

PARCEL #	OWNER
[illegible]	LUSTER/OLLIE MAE PRATTER
[illegible]	LUSTER/OLLIE MAE PRATTER
[illegible]	STATE OF MICHIGAN
[illegible]	STATE OF MICHIGAN
[illegible]	JOE LUELLA FITZPATRICK

- APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
- PROPERTY BOUNDARY
- UNPAVED ROAD
- INTERMITTENT STREAM
- RAILROAD TRACK
- FENCE LINE

FIGURE 1

0 100 200 300
SCALE IN FEET

ALB-BM
JP-20393

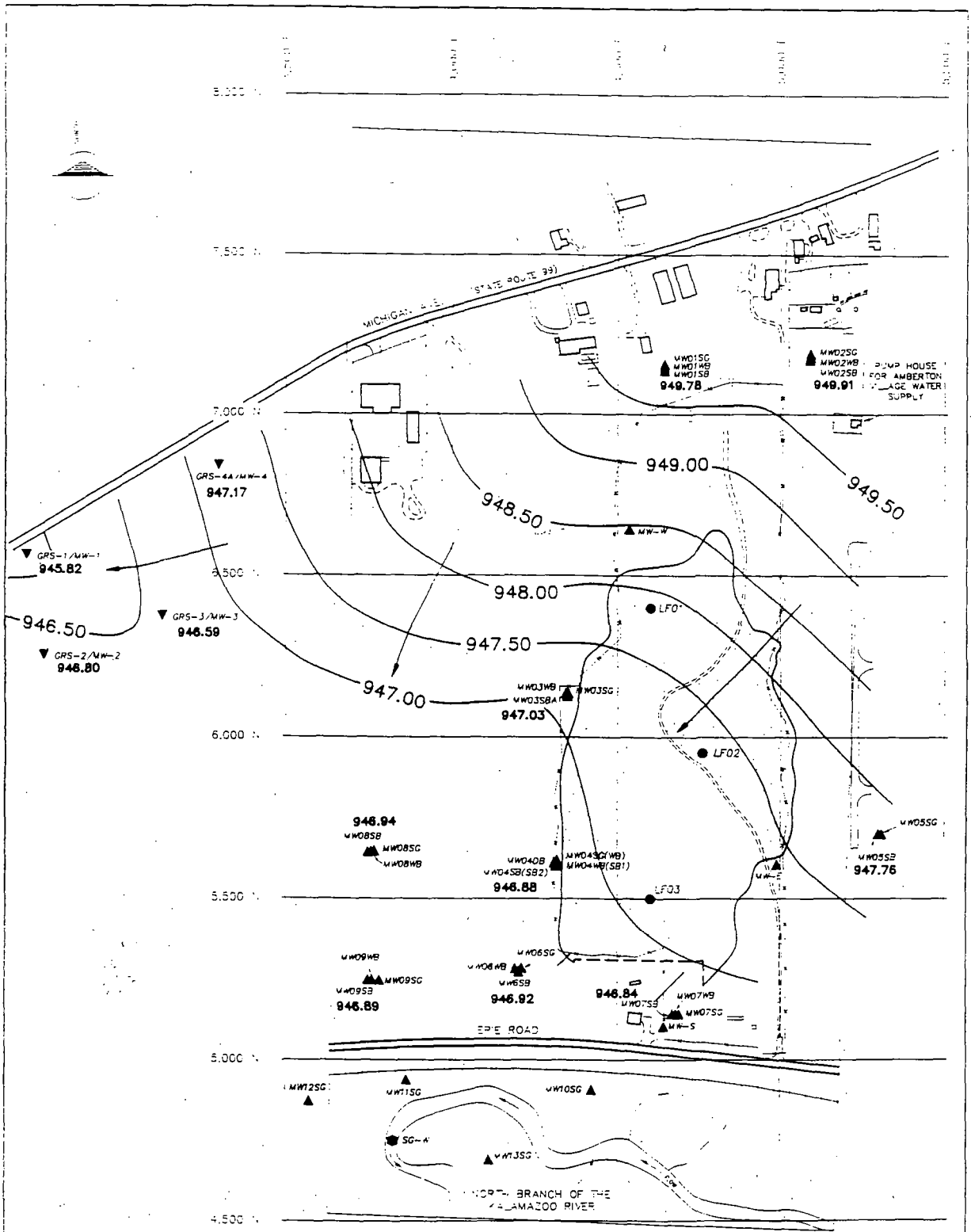
PROPERTY BOUNDARY MAP

ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

DECEMBER, 1993

04011.03

WW Engineering & Science



LEGEND

- APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
- UNPAVED ROAD
- INTERMITTENT STREAM
- RAILROAD TRACK
- MONITORING WELL LOCATION
- LEACHATE WELL LOCATION
- STAFF GUAGE LOCATION
- GRS WELL LOCATION
- FENCE LINE
- 947.00 — GROUND WATER CONTOUR
- 946.94 — GROUND WATER ELEVATION
- GROUND WATER FLOW DIRECTION

FIGURE 2

0 100 300 600
SCALE IN FEET

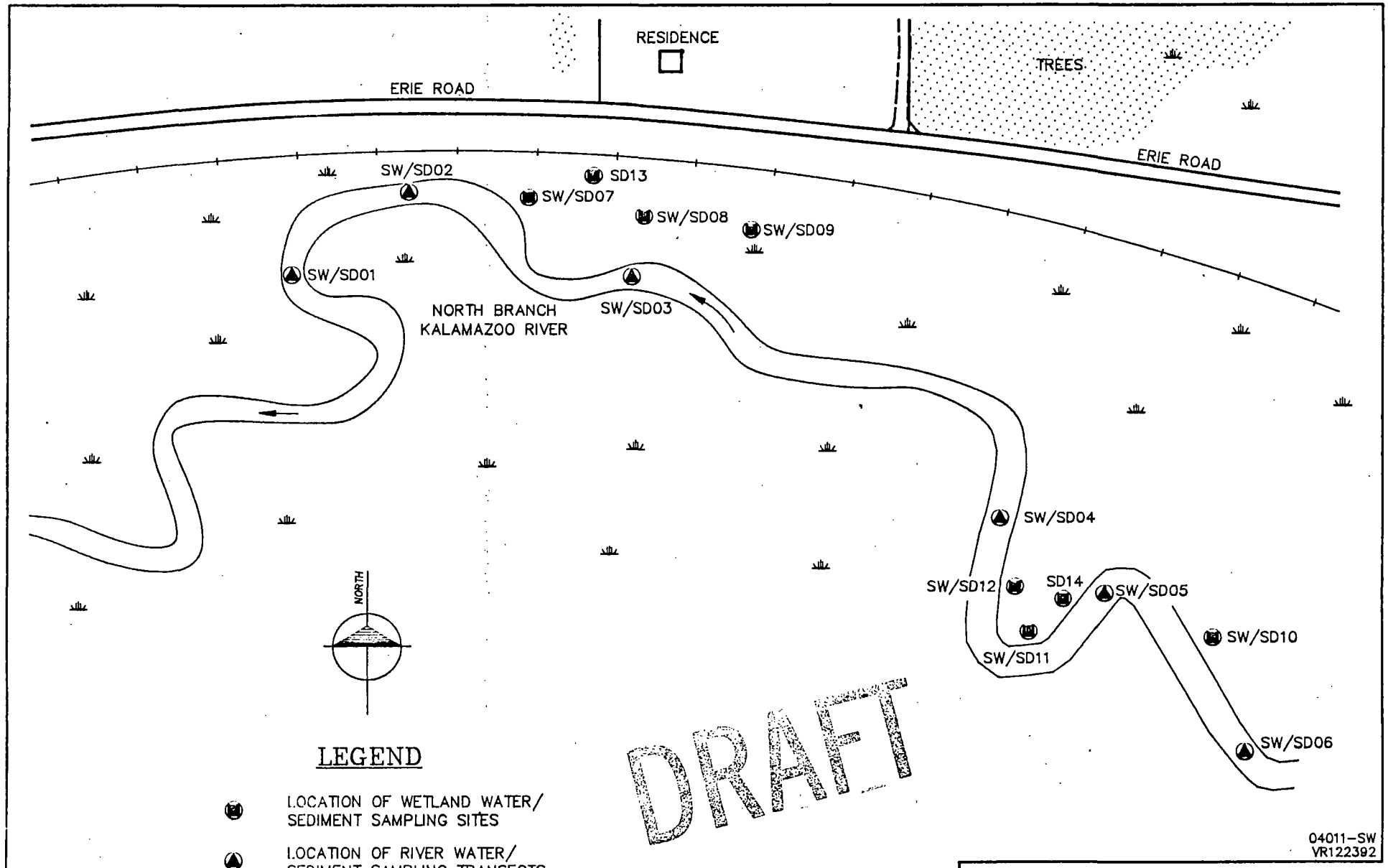
ALB-SBGW
9031794

SHALLOW BEDROCK GROUND WATER FLOW MAP
(JANUARY 18, 1994)
ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

MARCH, 1994

04011.03

WW Engineering & Science



FIGURE

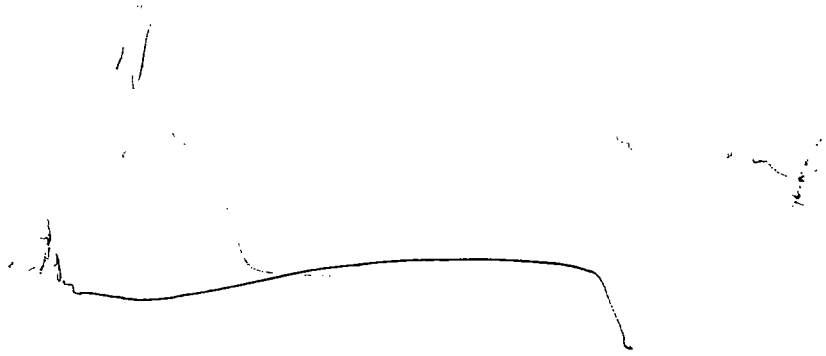
Surface Water/Sediment Sample Locations Map

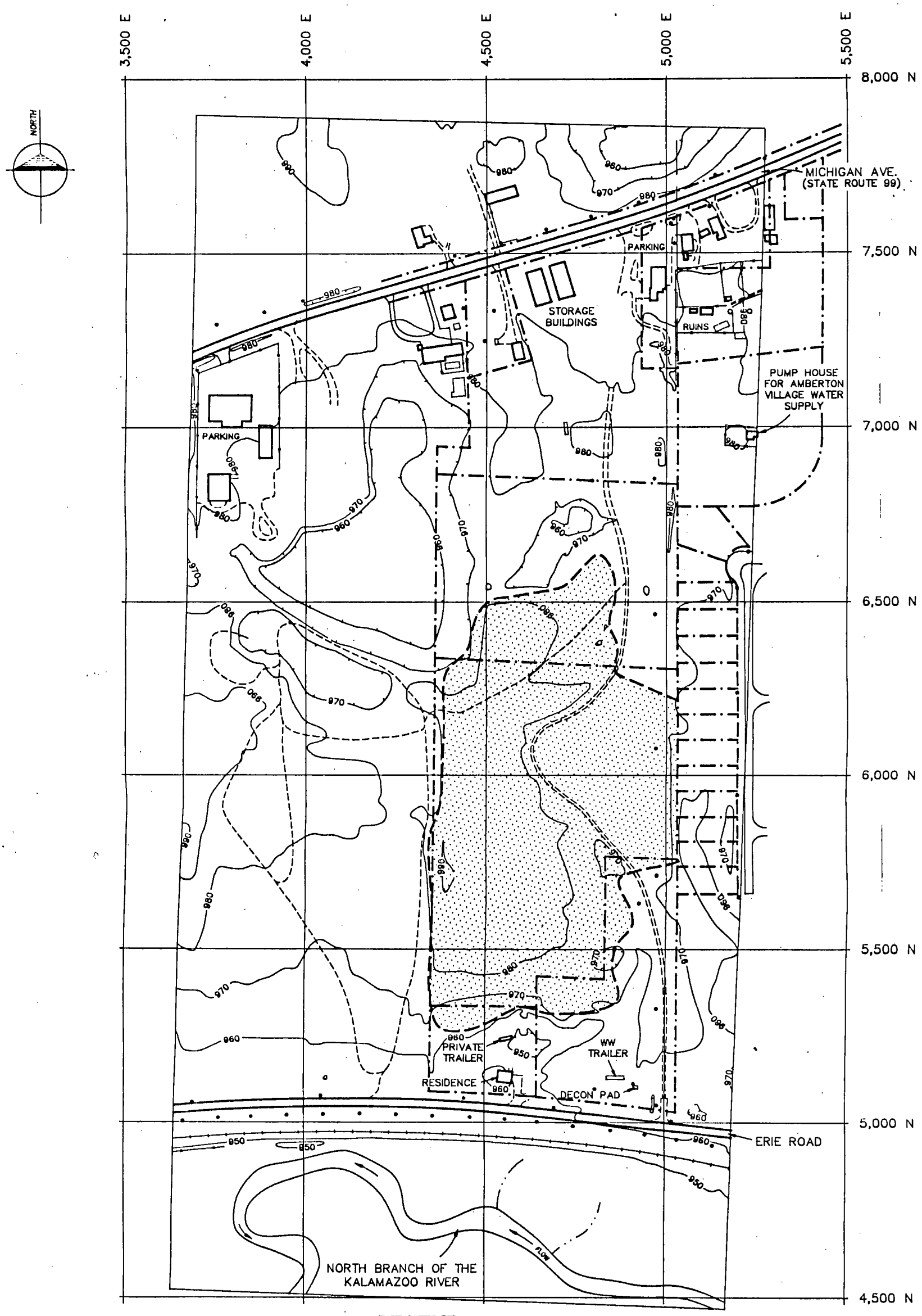
ALBION–SHERIDAN TOWNSHIP LANDFILL
Albion, Michigan

DECEMBER, 1992 04011.02

WW Engineering & Science, Inc.

W.3
12/1/92





LEGEND

- POWER POLE LOCATION
- APPROXIMATE EXTENT OF LANDFILL
- PROPERTY BOUNDARY
- 970 — TOPOGRAPHIC CONTOUR (10ft. interval)
- UNPAVED ROAD
- TRAIL
- INTERMITTENT STREAM
- RAILROAD TRACK

0 100 300 600

SCALE IN FEET

DRAFT

ALB-BM
LVP011393

FIGURE 1

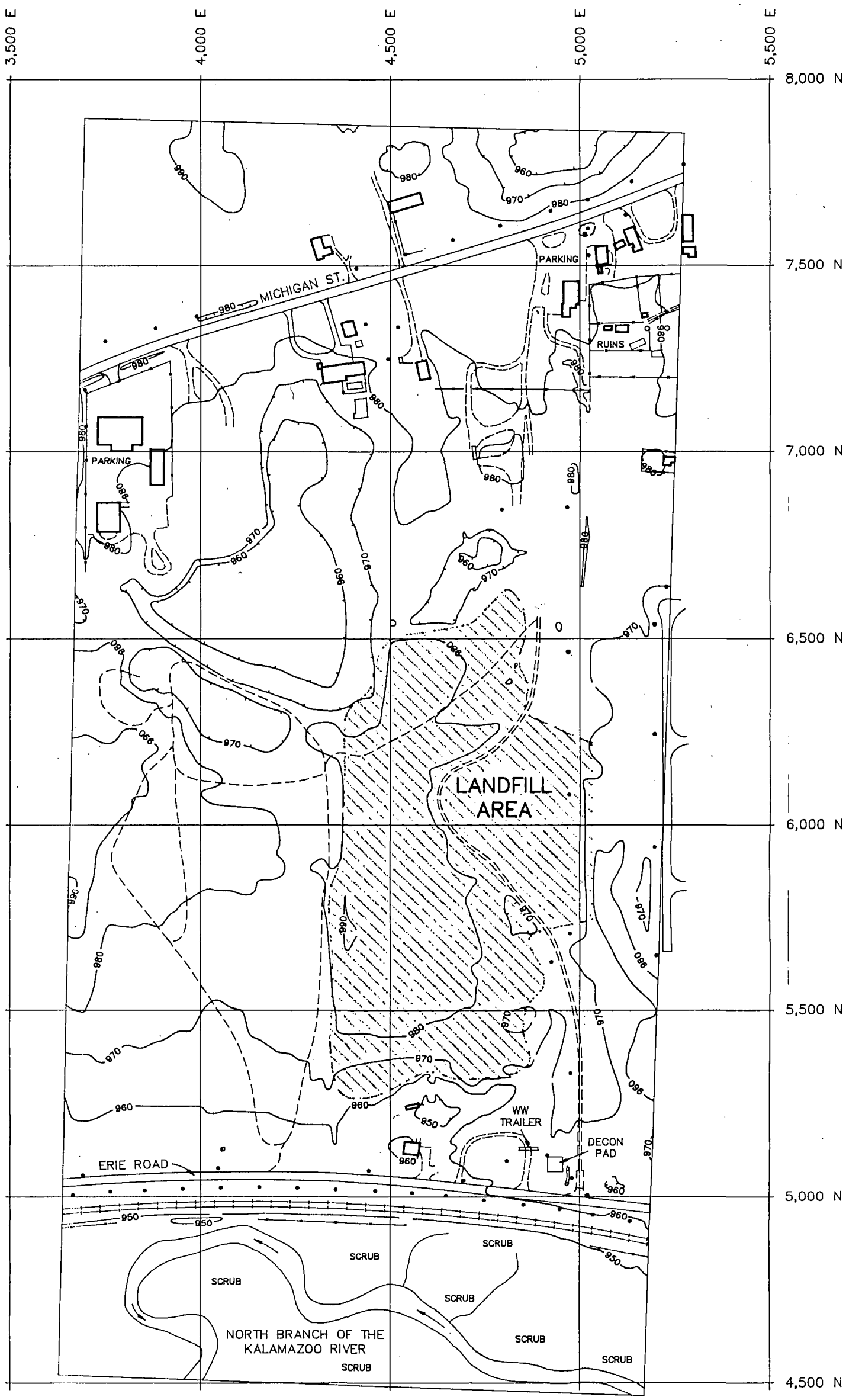
BASE MAP

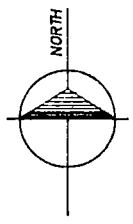
ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

JANUARY, 1993

04011.03

WW Engineering & Science

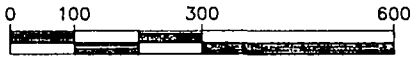




DRAFT

LEGEND

• – POWER POLE LOCATION



SCALE IN FEET

ALB–BM
LVP010893

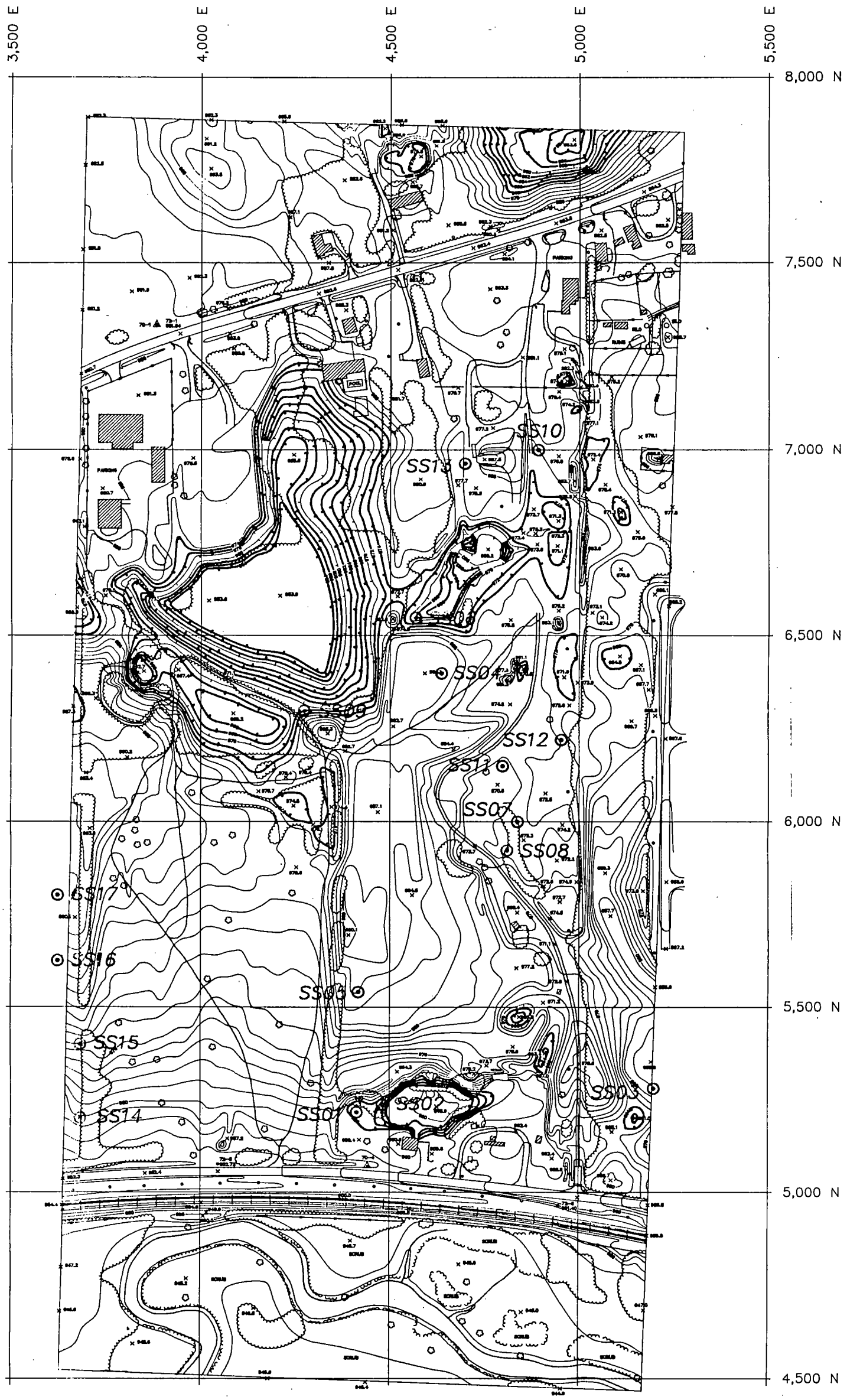
FIGURE 1

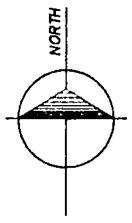
AREA SITE MAP

ALBION–SHERIDAN LANDFILL
ALBION, MICHIGAN

JANUARY, 1993

04011.02





DRAFT

LEGEND

⊙ – SURFACE SOIL SAMPLE LOCATION

0 100 300 600

SCALE IN FEET

ALB–SS
LVP123092

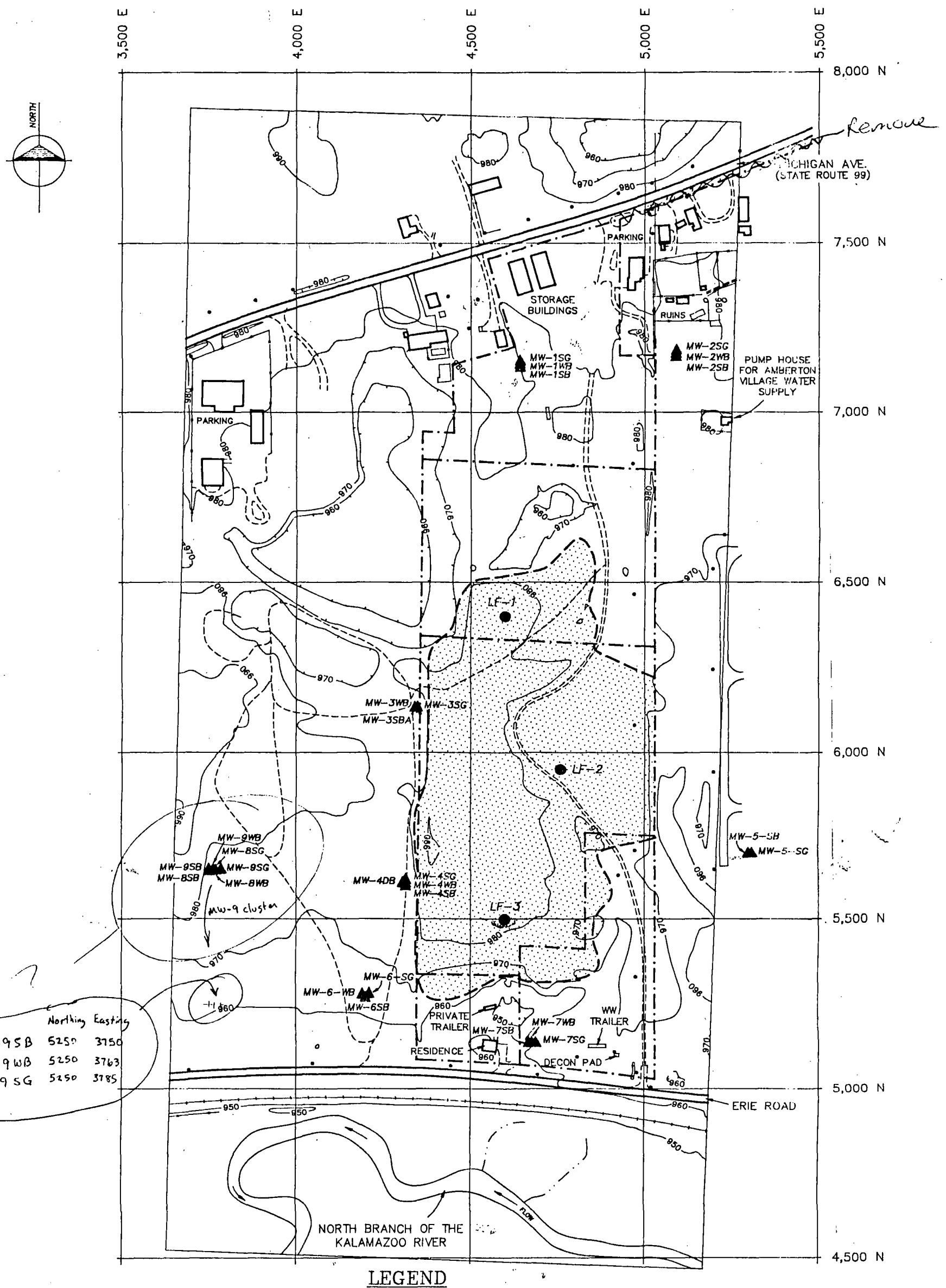
FIGURE 1

SURFACE SOIL SAMPLE LOCATION MAP

ALBION–SHERIDAN LANDFILL
ALBION, MICHIGAN

JANUARY, 1993 04011

WW Engineering & Science



	Northing	Easting
MW-9SB	5250	3750
MW-9WB	5250	3763
MW-9SG	5250	3785

LEGEND

- POWER POLE LOCATION
- APPROXIMATE EXTENT OF LANDFILL
- PROPERTY BOUNDARY
- 970 — TOPOGRAPHIC CONTOUR (10ft. Interval)
- UNPAVED ROAD
- TRAIL
- INTERMITTENT STREAM
- RAILROAD TRACK
- MONITORING WELL LOCATION
- LEACHATE WELL LOCATION

0 100 300 600

SCALE IN FEET

DRAFT

ALB-MW
LVP011493

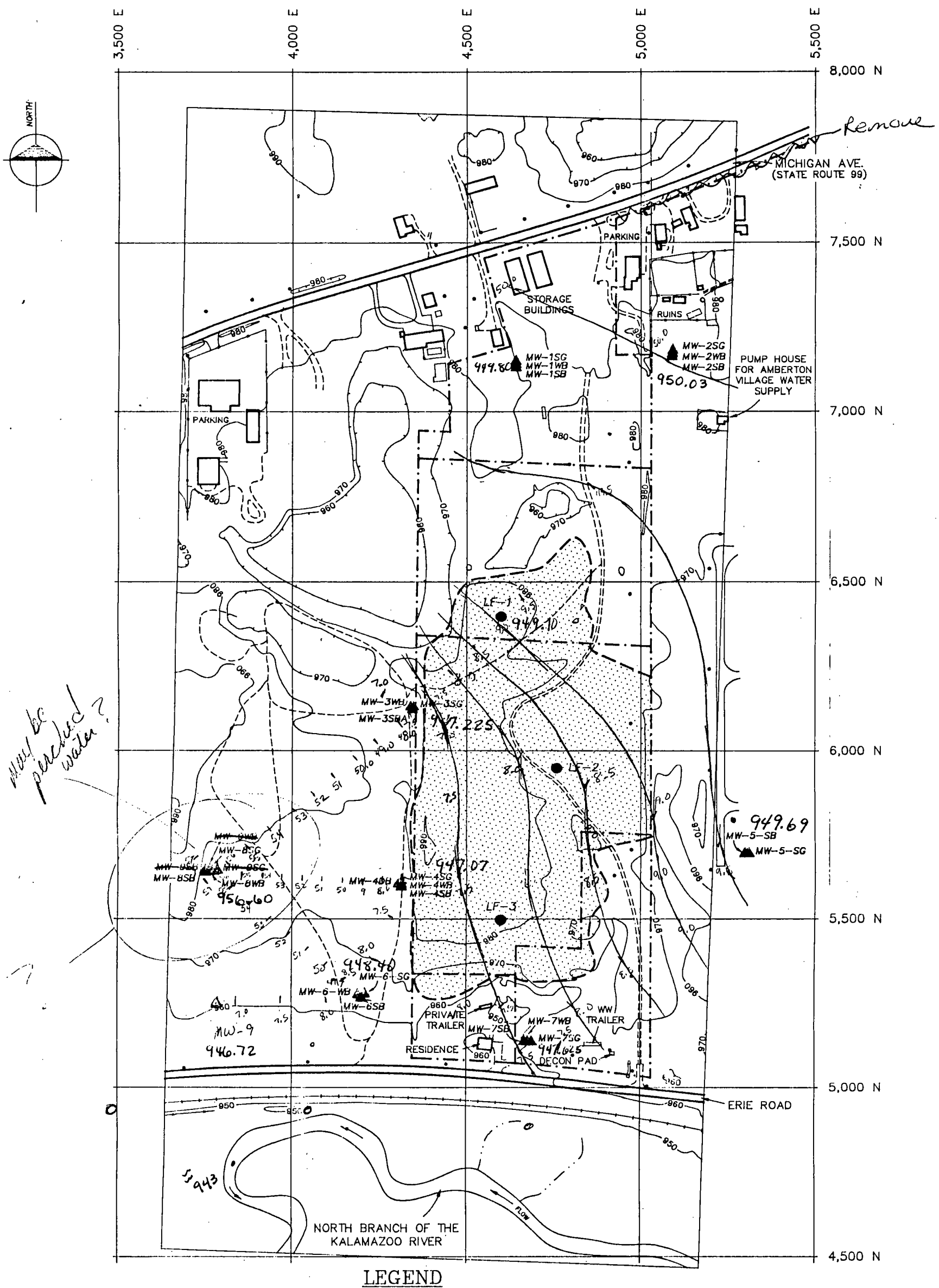
FIGURE A

MONITORING WELL LOCATION MAP

ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

JANUARY, 1993 04011.03

WW Engineering & Science



LEGEND

- POWER POLE LOCATION
- APPROXIMATE EXTENT OF LANDFILL
- PROPERTY BOUNDARY
- 970 — TOPOGRAPHIC CONTOUR (10ft. interval)
- UNPAVED ROAD
- TRAIL
- INTERMITTENT STREAM
- RAILROAD TRACK
- MONITORING WELL LOCATION
- LEACHATE WELL LOCATION

0 100 300 600

SCALE IN FEET

XXX.XX water level elevation for "SG"-series wells

DRAFT

ALB-MW
LVP011493

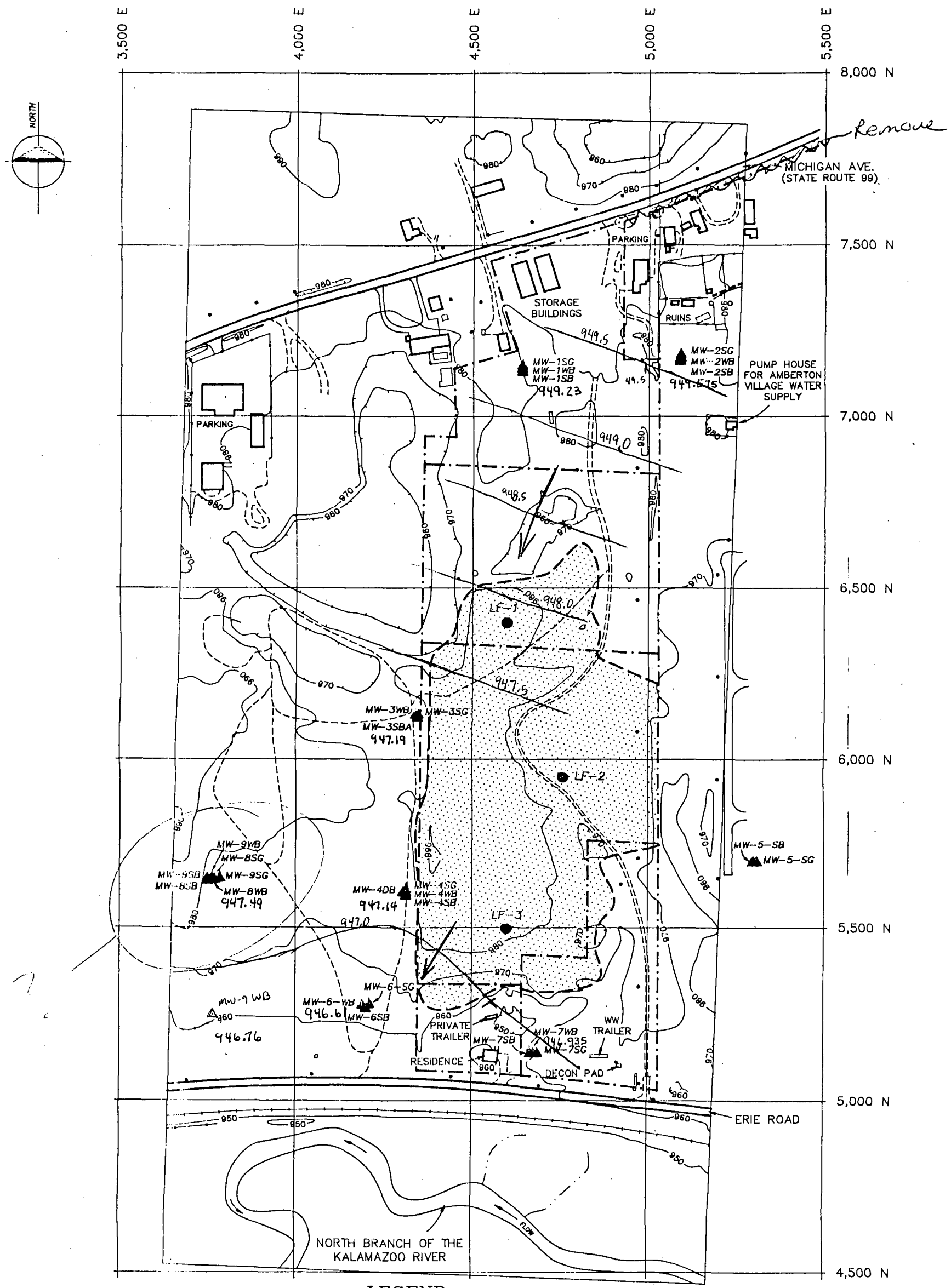
FIGURE A

MONITORING WELL LOCATION MAP

ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

JANUARY, 1993 04011.03

WW Engineering & Science



LEGEND

- POWER POLE LOCATION
- APPROXIMATE EXTENT OF LANDFILL
- PROPERTY BOUNDARY
- 970 — TOPOGRAPHIC CONTOUR (10ft. interval)
- UNPAVED ROAD
- TRAIL
- INTERMITTENT STREAM
- RAILROAD TRACK
- MONITORING WELL LOCATION
- LEACHATE WELL LOCATION

0 100 300 600

SCALE IN FEET

Water levels for "WB"-series wells

DRAFT

ALB-MW
LVP011493

FIGURE A

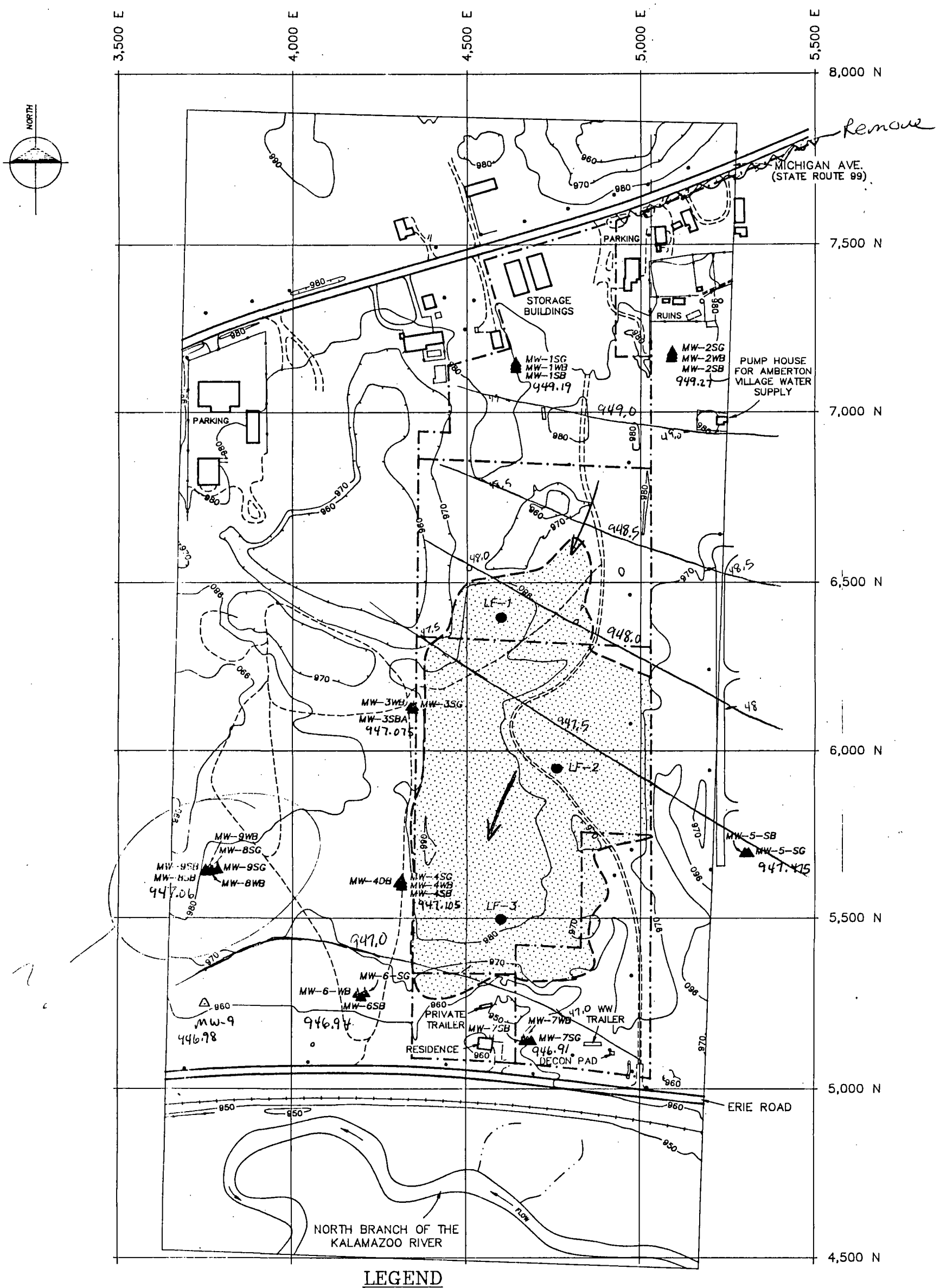
MONITORING WELL LOCATION MAP

ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

JANUARY, 1993

04011.03

WW Engineering & Science



LEGEND

- POWER POLE LOCATION
- APPROXIMATE EXTENT OF LANDFILL
- PROPERTY BOUNDARY
- 970 — TOPOGRAPHIC CONTOUR (10ft. interval)
- UNPAVED ROAD
- TRAIL
- INTERMITTENT STREAM
- RAILROAD TRACK
- MONITORING WELL LOCATION
- LEACHATE WELL LOCATION

0 100 300 600

SCALE IN FEET

xxx.xx = water levels for "SB"-series wells

DRAFT

ALB--MW
LVP011493

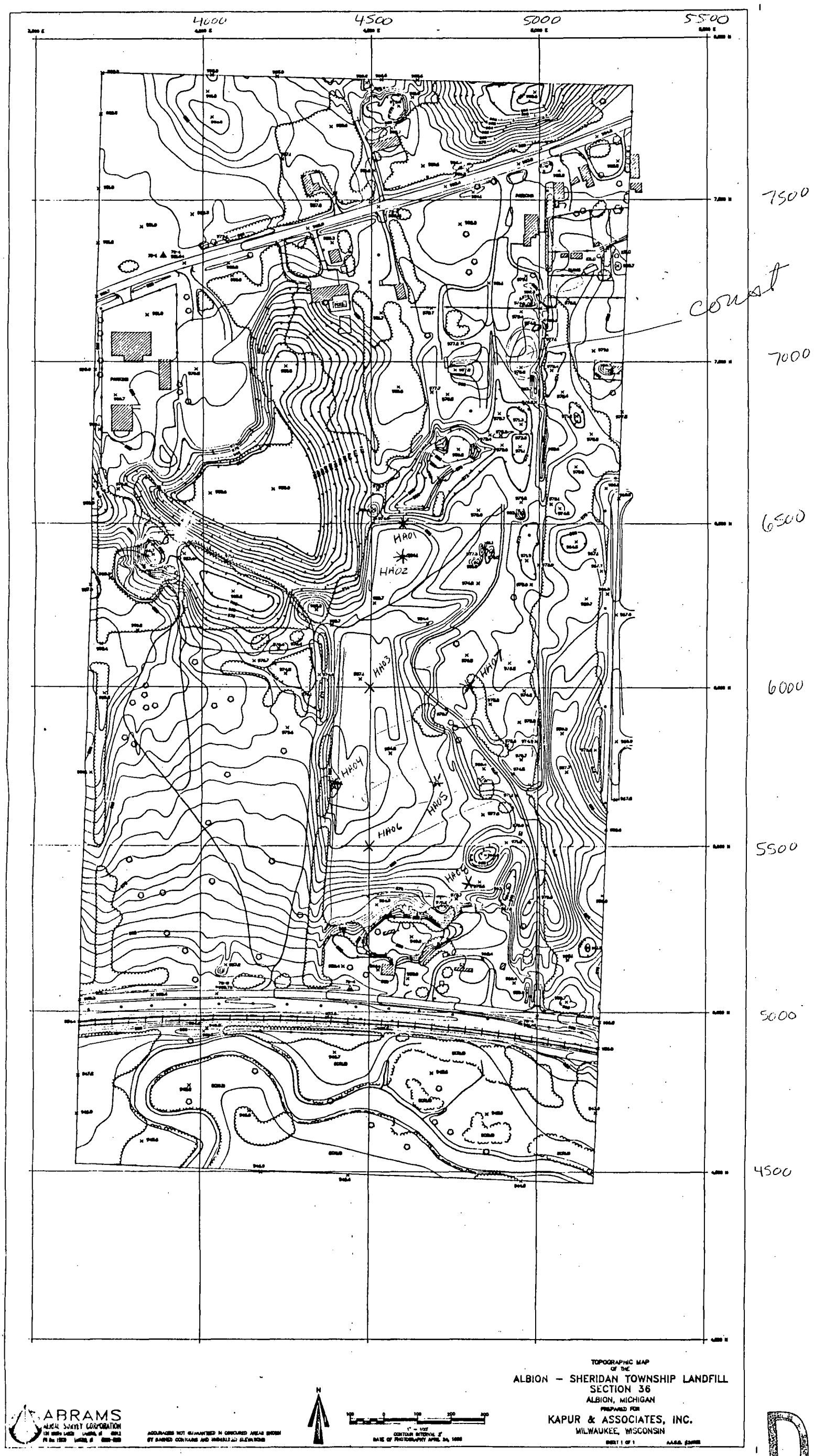
FIGURE A

MONITORING WELL LOCATION MAP

ALBION–SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

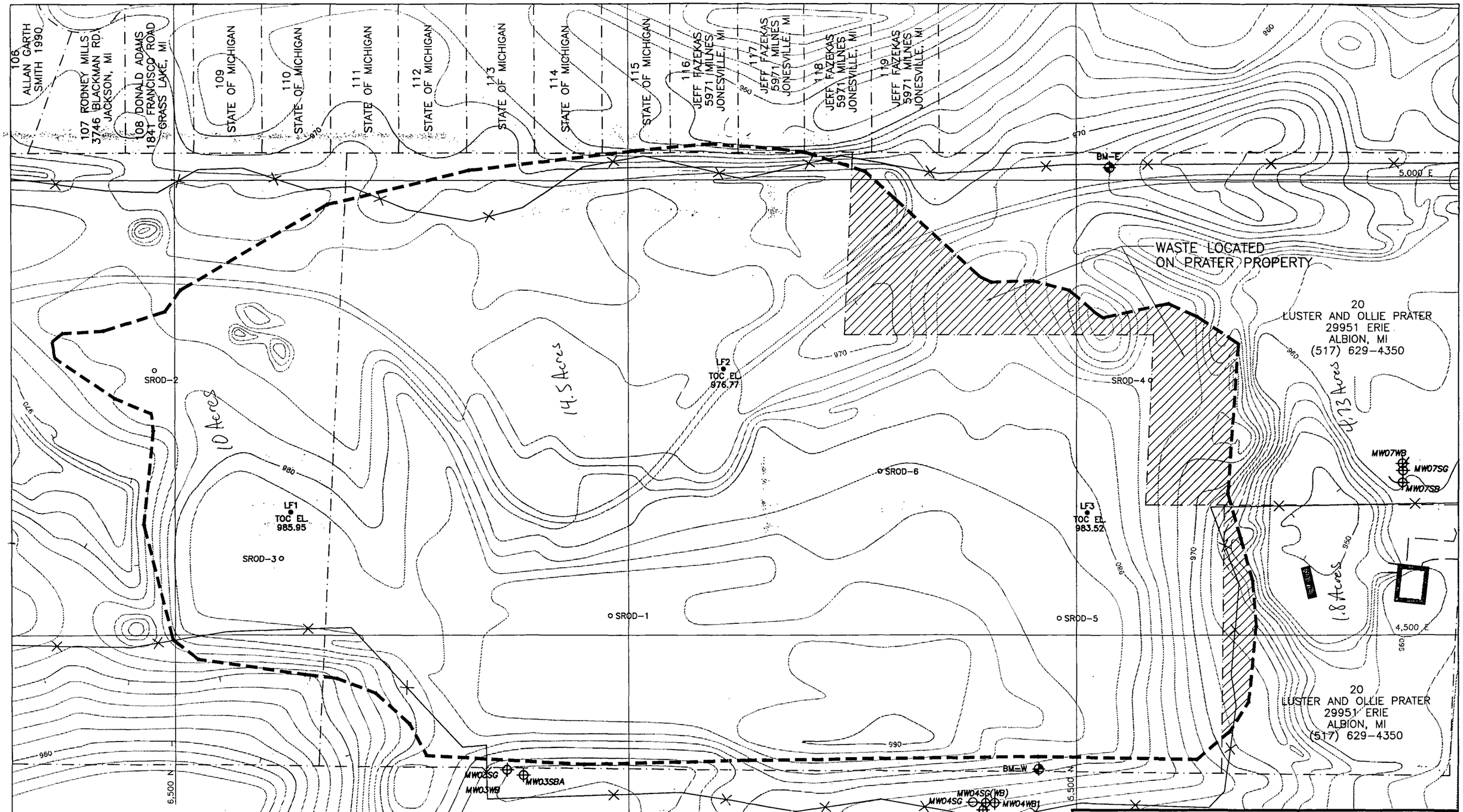
JANUARY, 1993 04011.03

WW Engineering & Science


4000
4500
5000
5500
7500
7000
6500
6000
5500
5000
4500
contst
HA01
HA02
HA03
HA04
HA05
HA06
HA07
HA08
TOPOGRAPHIC MAP
OF THE
ALBION – SHERIDAN TOWNSHIP LANDFILL
SECTION 36
ALBION, MICHIGAN
PREPARED FOR
KAPUR & ASSOCIATES, INC.
MILWAUKEE, WISCONSIN
ABRAMS
AERIAL SURVEY CORPORATION
N

DRAFT

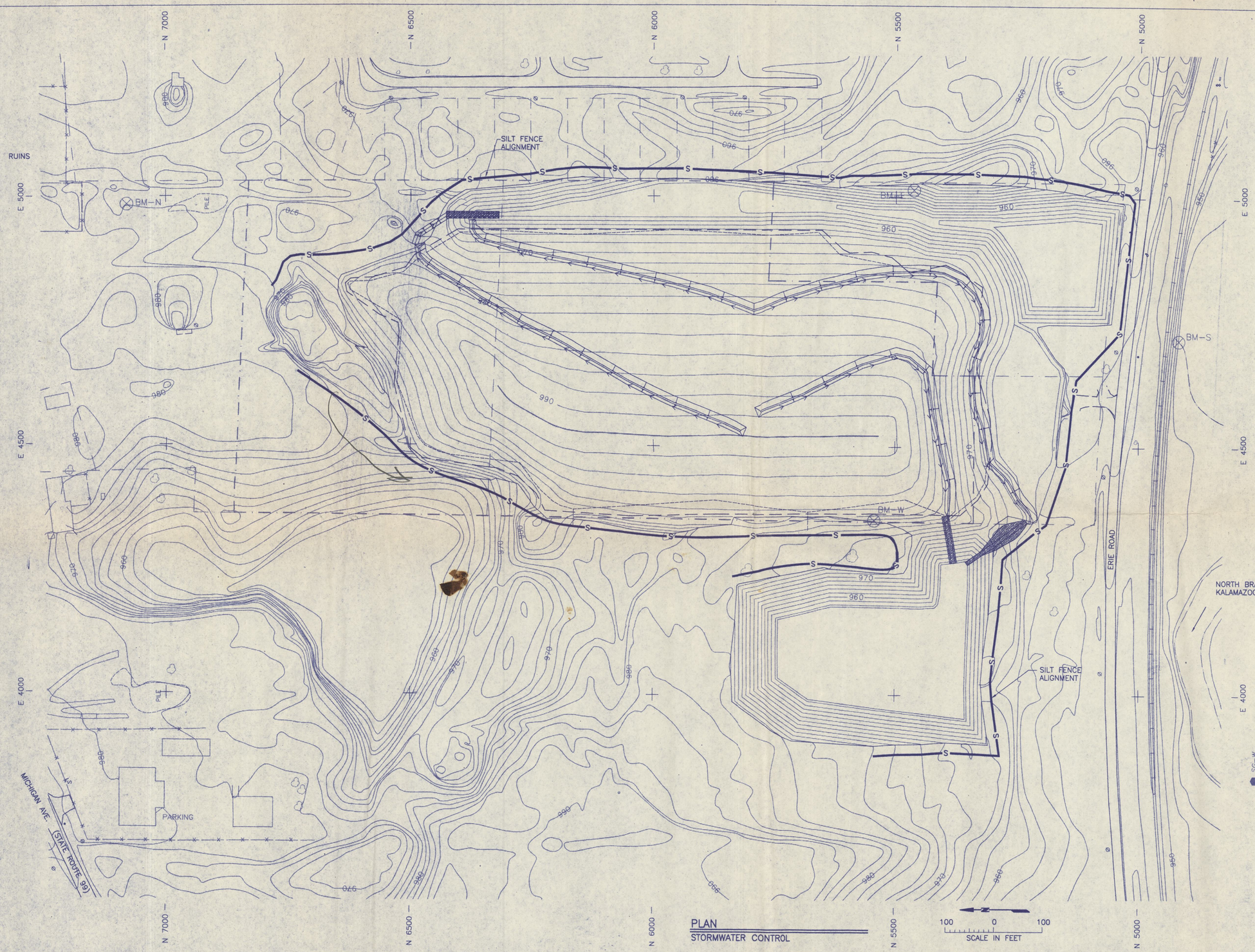
1=300'



Woodward-Clyde Consultants
ENGINEERS, GEOLOGISTS, AND ENVIRONMENTAL SCIENTISTS

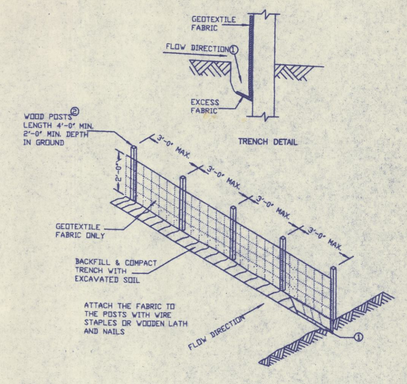
DRN BY:	KAH	DATE: NOV. 1996	PROJECT NO.	FIG. NO.
CHK'D BY:	LGH	DATE: NOV. 1996	6E07013-160	3

3045FIG4



PLAN
STORMWATER CONTROL

100 0 100
SCALE IN FEET



GENERAL NOTES:

1. EXCAVATE A TRENCH A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
2. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS/LINEAL FOOT (WITHOUT ANCHOR). FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIA. OR 1 1/2 " X 3 1/2 " EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1 1/8 " X 1 1/8 " OAK OR HICKORY.

SILT FENCE
NOT TO SCALE

NOTE:

1. SILT FENCE SHALL BE IN PLACE PRIOR TO INITIATING SITE CONSTRUCTION ACTIVITIES.

REV	DESCRIPTION OF REVISION	BY	DATE
1	FINAL DESIGN	RJ	5/05/97

I hereby certify that this plan, specification or report was perpared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Michigan.

RICHARD M. GREENLEE REG NO. 42749
5/13/97
DATE

Woodward-Clyde Consultants
Engineering & sciences applied to the earth & its environment
Park Place West Building, Suite 660
6465 Wayzata Boulevard
Minneapolis, Minnesota 55426

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

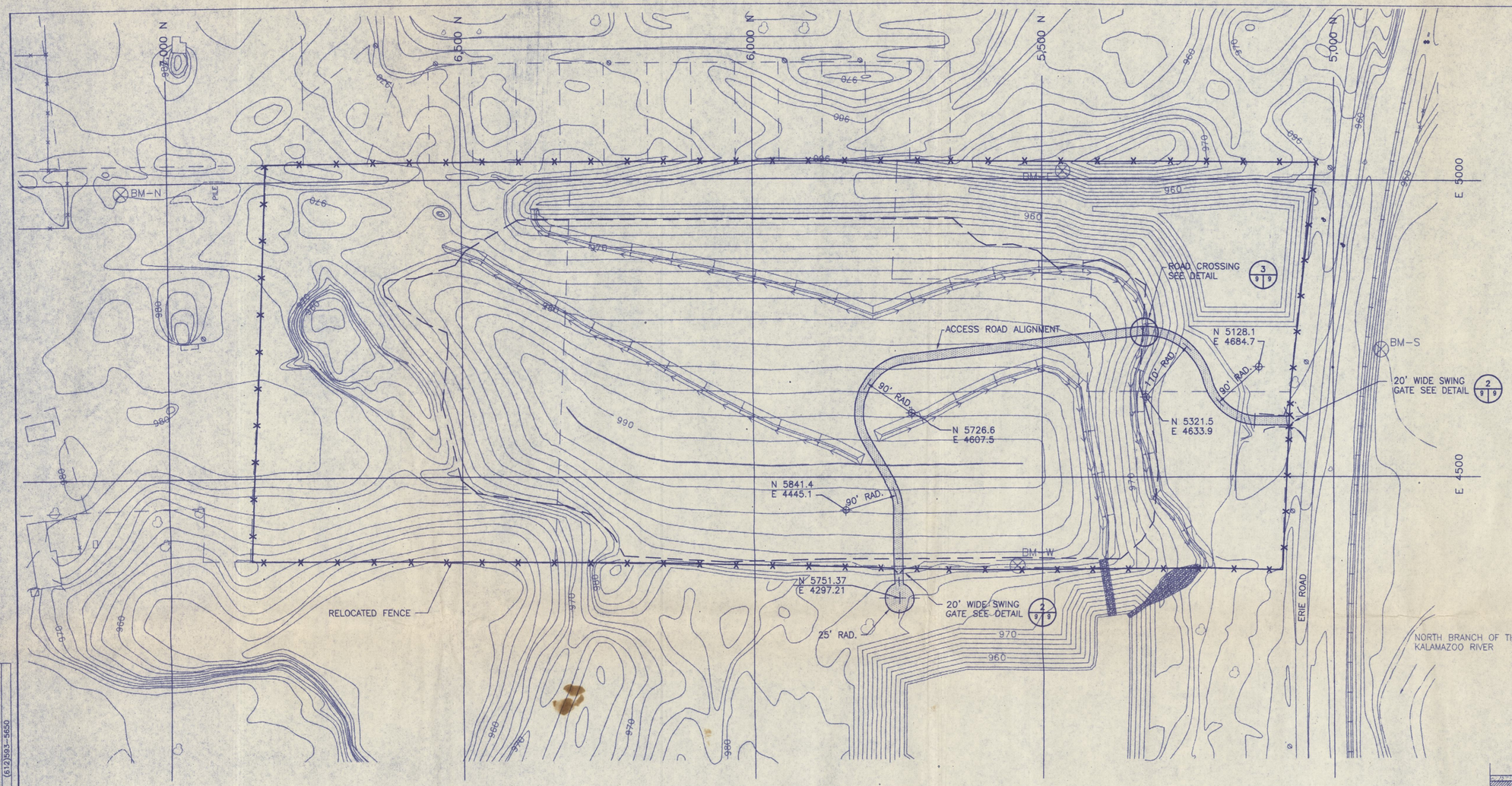
DESIGNED	RJ
DRAWN	SWH
CHECKED	LGH
PEER REVIEWED	RMG
PROJECT MANAGER	RGG
DATE	5/08/97

Albion-Sheridan Township Landfill — Albion, Michigan

EROSION CONTROL PLAN AND DETAIL

REVISION 1
PROJECT 6E13045
DRAWING 10
SHEET 10 OF 10

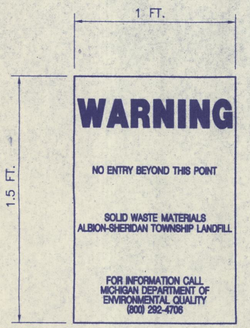
FILE # 3045-15.DWG | OPPER. SWH | PROJ. # 6E13045 | LOC: Mpls., Mn. | SEND TO | PHONE (612)593-5650
SCALE: 1:100 | DATE 5/08/97 | TASK # | PROJ: ALBION



PLAN
FENCE RELOCATION
SCALE: 1" = 100'-0"

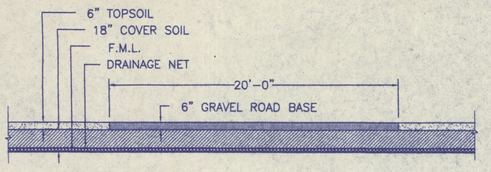
NOTES:

1. WARNING SIGNS SHALL BE ATTACHED TO THE CHAIN LINK FENCE BY METHODS AND MATERIALS APPROVED BY THE ENGINEER.
2. CONTRACTOR SHALL SUBMIT PROPOSED SIGN BOARD AND LETTERING MATERIAL SPECIFICATIONS FOR REVIEW BY THE ENGINEER AND U.S. E.P.A.
3. SPACING OF SIGNS AROUND THE PERIMETER OF THE LANDFILL SHALL BE 200 FEET CENTER TO CENTER, BEGINING AT THE MAIN ENTRANCE GATE ON THE SOUTH END OF THE SITE.

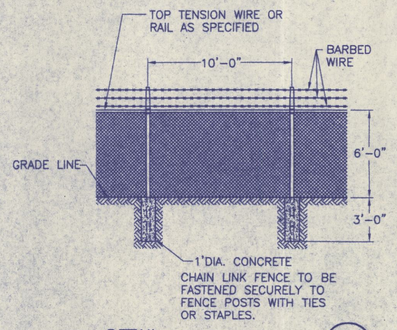


NOTE: WARNING SIGNS ARE TO BE POSTED AT ALL ACCESS POINTS AND AROUND THE PERIMETER AT INTERVALS NO GREATER THAN 200 FT.

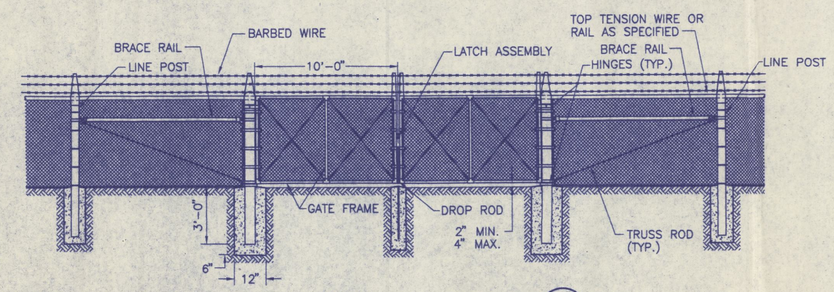
DETAIL
WARNING SIGN 4/9 9



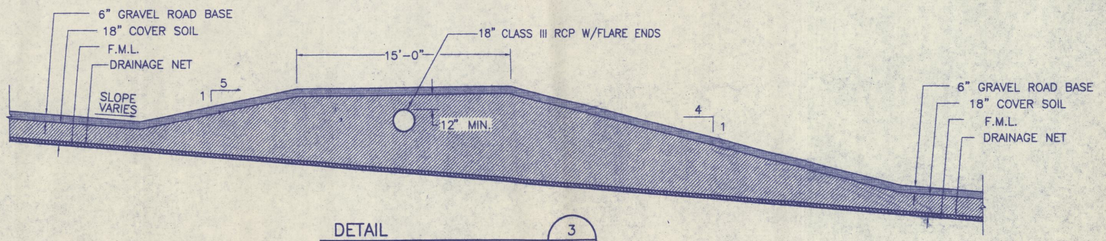
SECTION
TYPICAL ACCESS ROAD (ON COVER SECTION) A/9 9



DETAIL
CHAIN LINK FENCE 1/9 9
N.T.S.



DETAIL
SWING GATE 2/9 9
N.T.S.



DETAIL
ROAD/BERM CROSSING 3/9 9

REV	DESCRIPTION OF REVISION	BY	DATE
1	FINAL DESIGN	RJ	5/05/97
2	RESPONSE TO EPA/MDEQ COMMENTS	RJ	8/18/97

I hereby certify that this plan, specification or report was perpared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Michigan.

RICHARD M. GREENLEE REG NO. 42749
DATE 8/18/97

Woodward-Clyde Consultants
Engineering & sciences applied to the earth & its environment
Park Place West Building, Suite 660
6465 Wayzata Boulevard
Minneapolis, Minnesota 55426

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

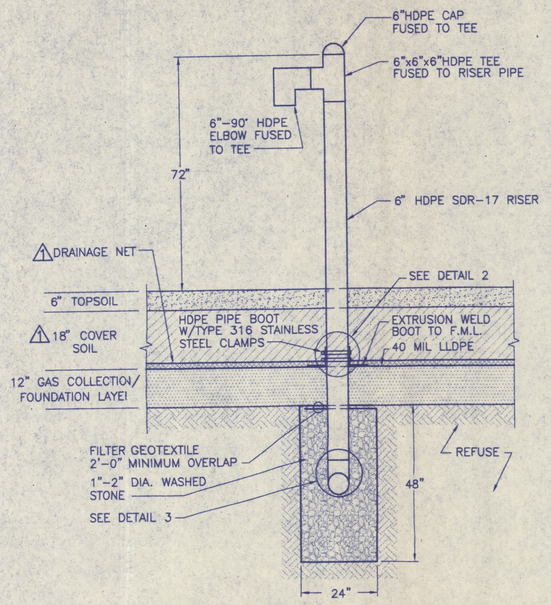
DESIGNED	RJ
DRAWN	SWH
CHECKED	LGH
PEER REVIEWED	RMG
PROJECT MANAGER	RGG
DATE	8/18/97

Albion-Sheridan Township Landfill — Albion, Michigan

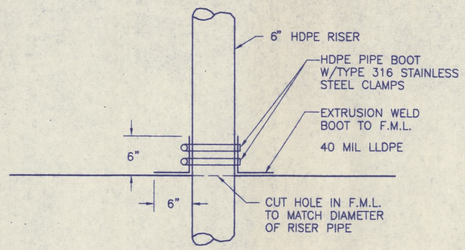
PERIMETER FENCE AND ACCESS ROAD PLAN AND DETAILS

REVISION 2
PROJECT 6E13045
DRAWING 9
SHEET 9 OF 10

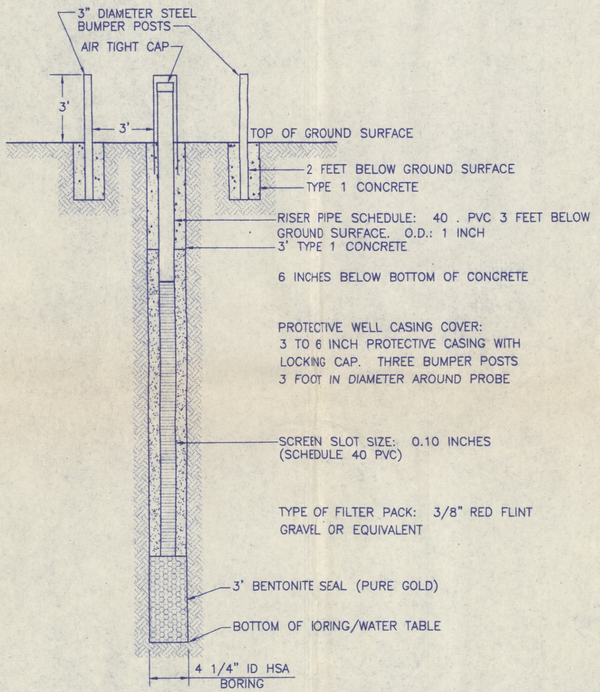
FILE # 3045-09	QPPER. SWH	PROJ. # 6E13045	LOC. Mpls., Mn
SCALE 1:100	DATE 8/18/97	TASK # 210	PROJ. ALBION-SHERIDAN
			SEND TO PHONE (612)593-5650



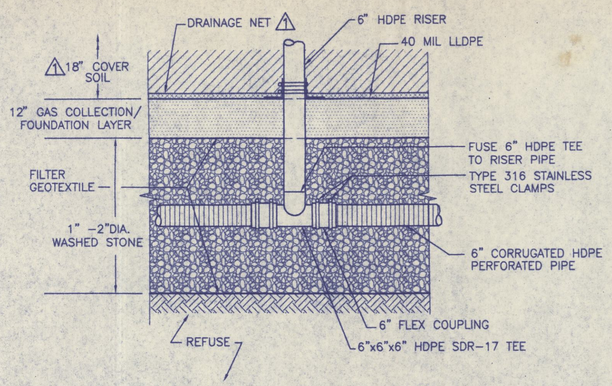
SECTION A 7 8
LANDFILL GAS HORIZONTAL VENT WELL



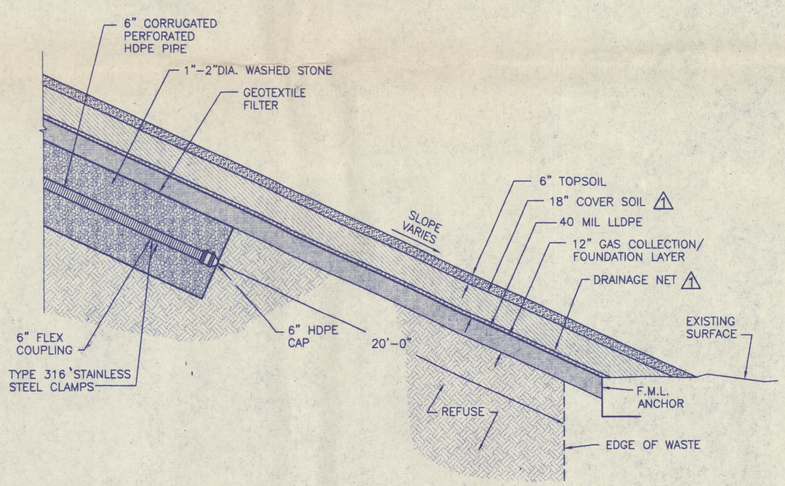
DETAIL 2 7 8
LANDFILL GAS HORIZONTAL VENT WELL



GAS MONITORING PROBE DETAIL



DETAIL 3 7 8
LANDFILL GAS HORIZONTAL VENT WELL



DETAIL 1 7 8
HORIZONTAL VENT WELL END CONFIGURATION

REV	DESCRIPTION OF REVISION	BY	DATE
1	FINAL DESIGN	RJ	5/05/97
2	RESPONSE TO EPA/MDEQ COMMENTS	RJ	8/18/97
3			
4			
5			
6			

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RICHARD M. GREENLEE REG NO. 42749
DATE 8/18/97

Woodward-Clyde Consultants
Engineering & sciences applied to the earth & its environment
Park Place West Building, Suite 660
6465 Wayzata Boulevard
Minneapolis, Minnesota 55426

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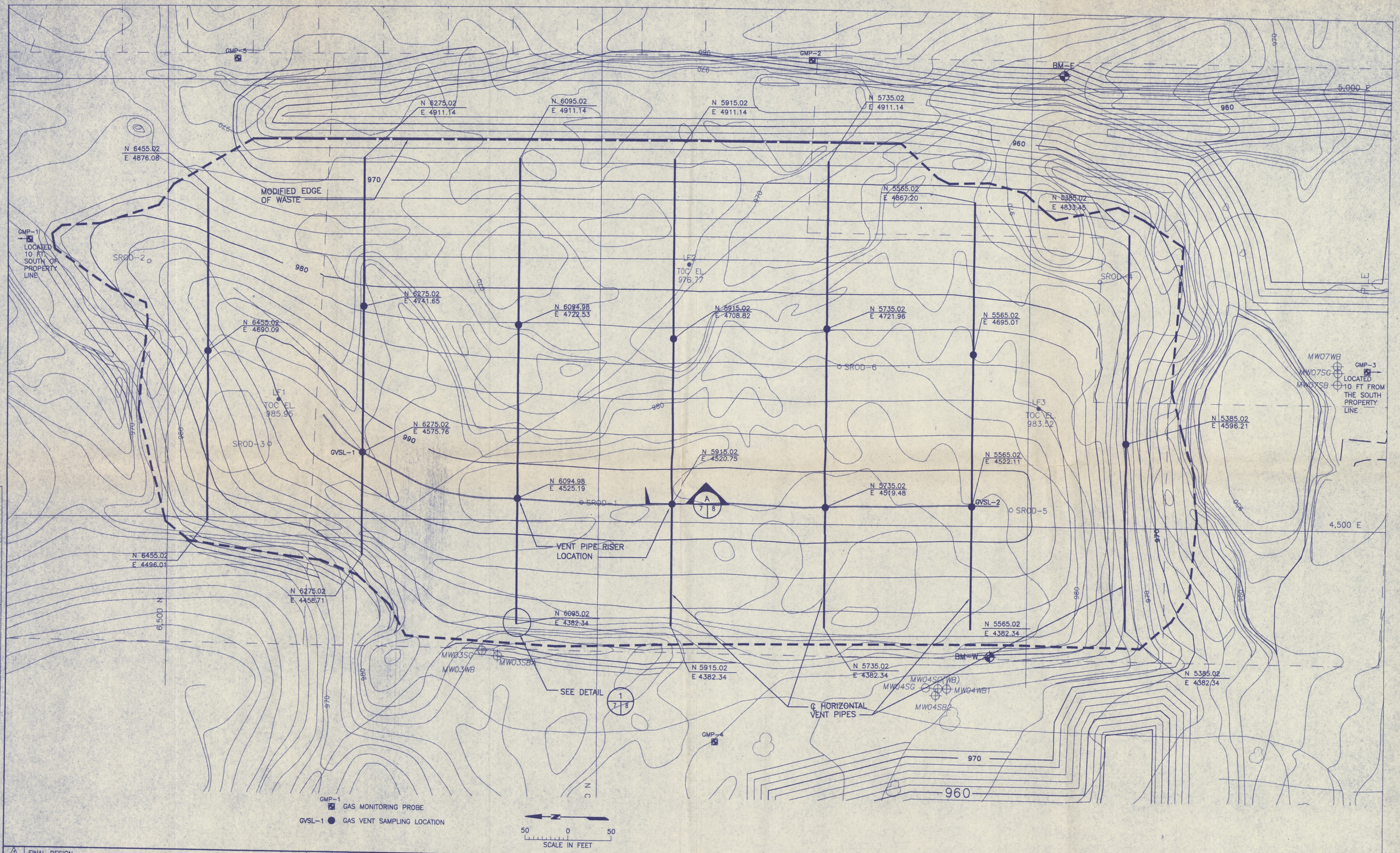
CHECKED	LGH
PEER REVIEWED	RMG
PROJECT MANAGER	RGG
DATE	8/18/97

Albion-Sheridan Township Landfill — Albion, Michigan

PASSIVE LANDFILL GAS SECTIONS AND DETAILS

REVISION 2
PROJECT 63E13045
DRAWING 8
SHEET 8 OF 10

FILE # 3045-02 | OPRTR. SWH | PROJ. # 63E13045 | LOC. Mpls., Mn | SEND TO
SCALE 1:1 | DATE 8/18/97 | TASK # | PROJ. | PHONE (612)593-5650



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PEER REVIEWED	RMG
PROJECT MANAGER	RGG
DATE	8/18/97

Albion–Sheridan Township Landfill — Albion, Michigan

PASSIVE LANDFILL GAS CONTROL PLAN

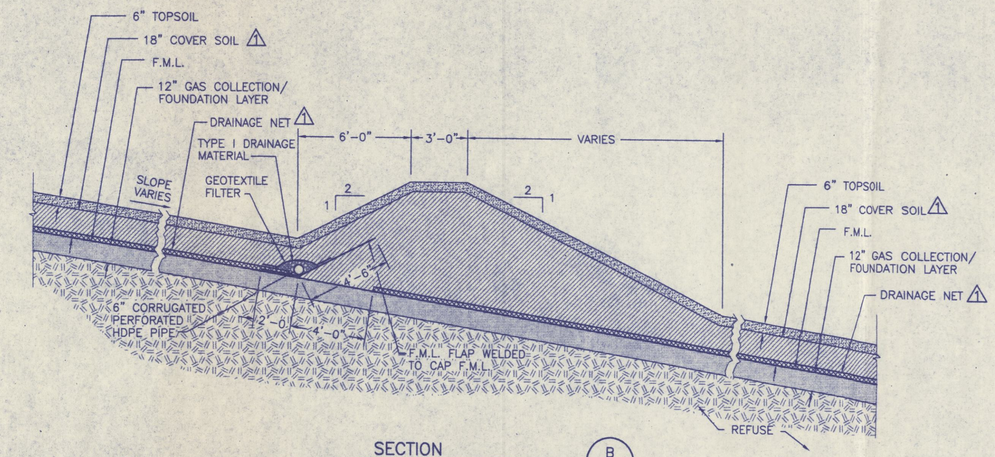
REVISION 2

PROJECT 6E13045

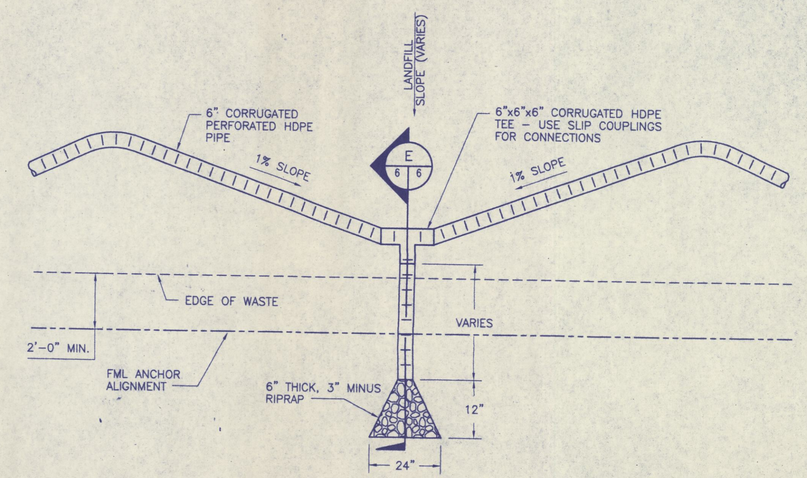
DRAWING 7

SHEET 7 OF 10

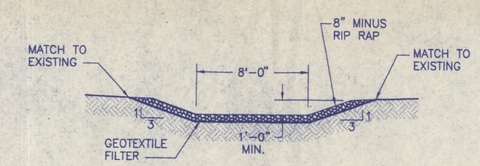
FILE # 3045-05 | OPPER: SWH | PROJ. # 6E13045 | LOC: Mpls., MN | SEND TO
SCALE 1:1 | DATE 8/18/97 | TASK # | PROJ. | PHONE (612)593-5650



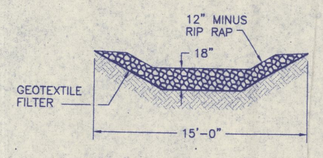
SECTION B (5|6)
TYPICAL BERM



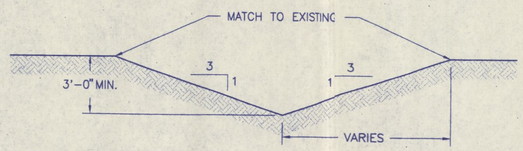
DETAIL 4 (5|6)
LANDFILL SUBDRAIN SYSTEM OUTLET



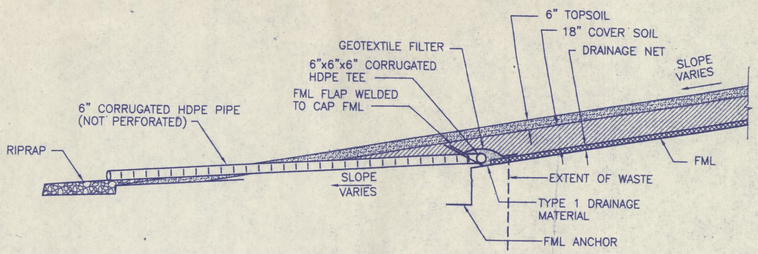
DETAIL 1 (5|6)
RIP RAP CHUTE (WEST)



DETAIL 2 (5|6)
RIP RAP CHUTE (EAST)



DETAIL 3 (5|6)
TYPICAL FLOWLINE



SECTION E (6|6)
TYPICAL LANDFILL SUBDRAIN SYSTEM OUTLET

REV	DESCRIPTION OF REVISION	BY	DATE
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2	RESPONSE TO EPA/MDEQ COMMENTS	RJ	8/18/97

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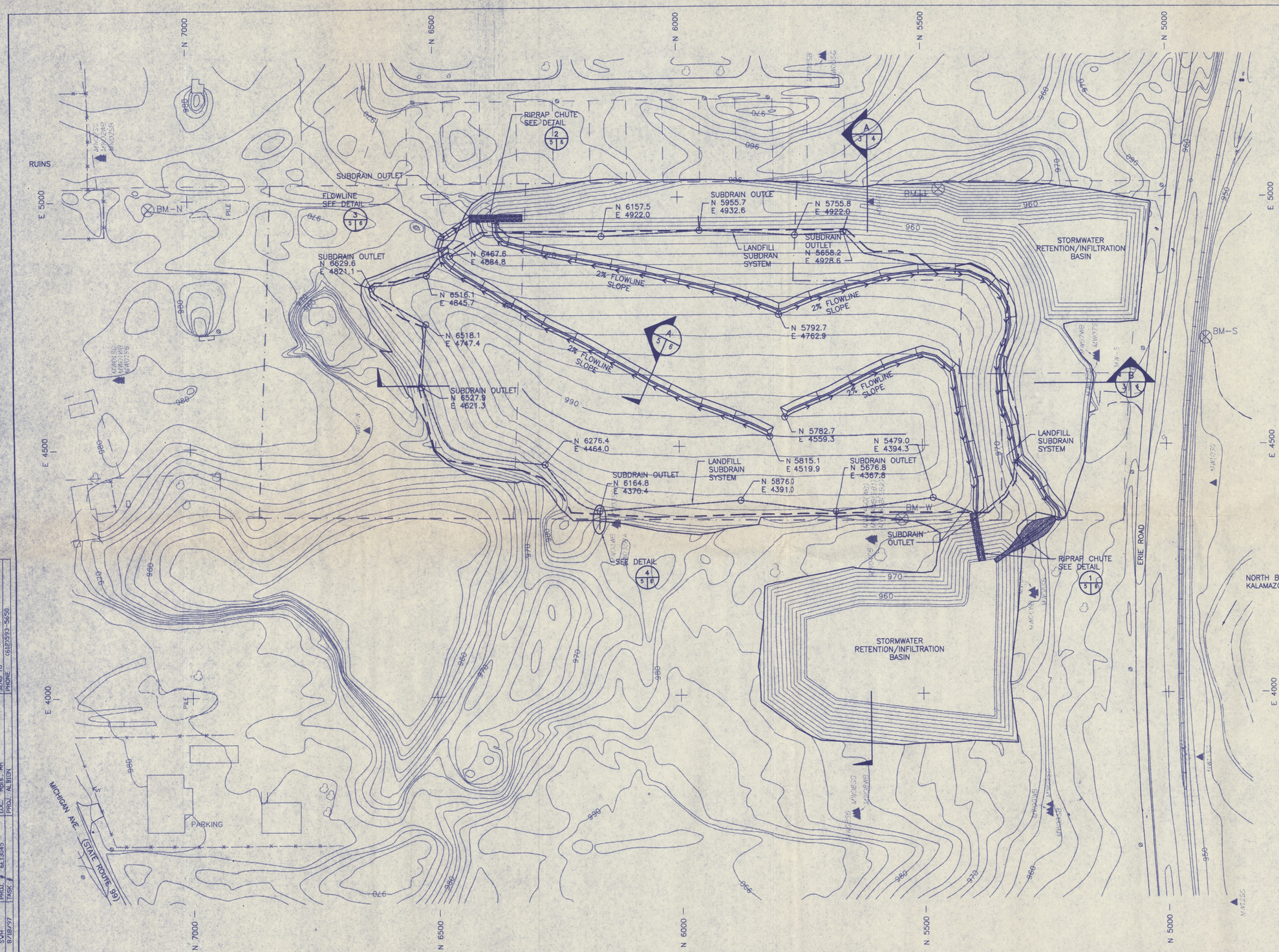
PROJECT MANAGER	RGG
DATE	8/18/97

Albion-Sheridan Township Landfill — Albion, Michigan

STORMWATER CONTROL SECTIONS AND DETAILS

REVISION 2
PROJECT 63E13045
DRAWING 6
SHEET 6 OF 10

FILE # 3945-08 | OPPER. SWH | PROJ. 63E13045 | LOC. Mpls., Mn | SEND TO
SCALE 1:1 | DATE 8/18/97 | TASK # | PROJ. | PHONE 612/593-5650



LEGEND:

- EXTENT OF WASTE
- STORMWATER FLOWLINE
- LANDFILL PERIMETER SUBDRAIN

NOTES:

1. STORMWATER BASIN LOCATED WEST OF LANDFILL MAY HAVE A LARGER AREA DUE TO AN INCREASE IN BORROW MATERIAL NEEDED FOR WASTE CONSOLIDATION PROCESS.
2. GRADING REQUIRED FOR EXISTING DEPRESSION NORTH OF THE LANDFILL IS FOR RESTORATION PURPOSES ONLY. NO BORROW MATERIAL SHALL BE REMOVED FROM THIS AREA.
3. BERMS SHALL BE SURVEYED AND MARKED AS SHOWN ON THE DRAWINGS. ENGINEER SHALL BE ALLOWED TO INSPECT ALIGNMENTS PRIOR TO SUBDRAIN SYSTEM AND BERM PLACEMENT AND MAKE MODIFICATIONS AS NECESSARY.

PLAN
STORMWATER CONTROL

100 0 100
SCALE IN FEET

REV	DESCRIPTION OF REVISION	BY	DATE
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2	RESPONSE TO EPA/MDEQ COMMENTS	RJ	8/18/97

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8/18/97
DATE

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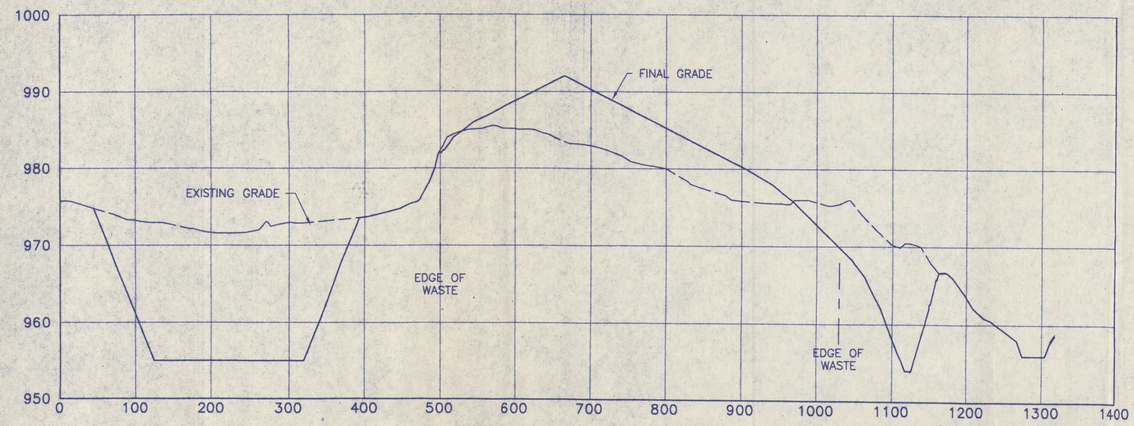
PROJECT MANAGER	RGG
DATE	8/18/97

Albion-Sheridan Township Landfill — Albion, Michigan

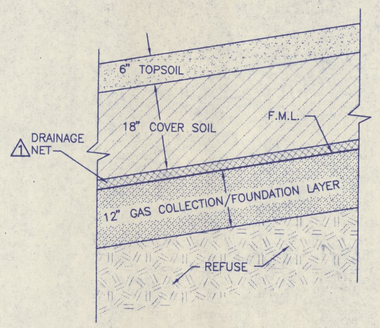
STORMWATER CONTROL AND ACCESS ROAD LAYOUT

REVISION 2
PROJECT 6E13045
DRAWING 5
SHEET 5 OF 10

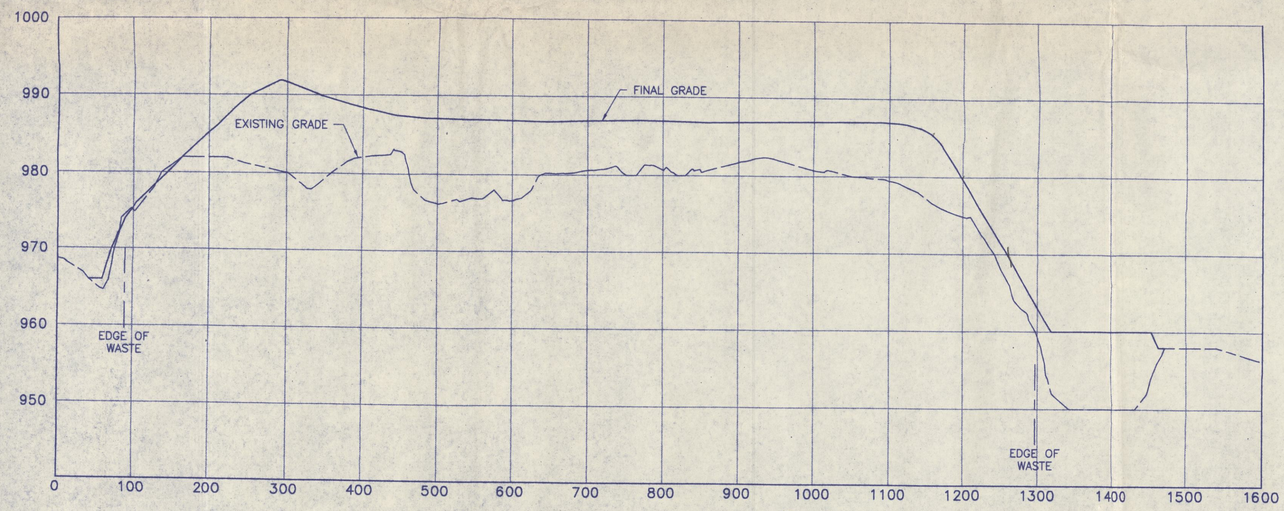
FILE # 3045-14.DWG GRPFR. SVH
SCALE 1:100 DATE 8/18/97
PROJ. # 6E13045 TASK
LOC. Mpls., Mn PROJ. ALBION
SEND TO PHONE (612)593-5650



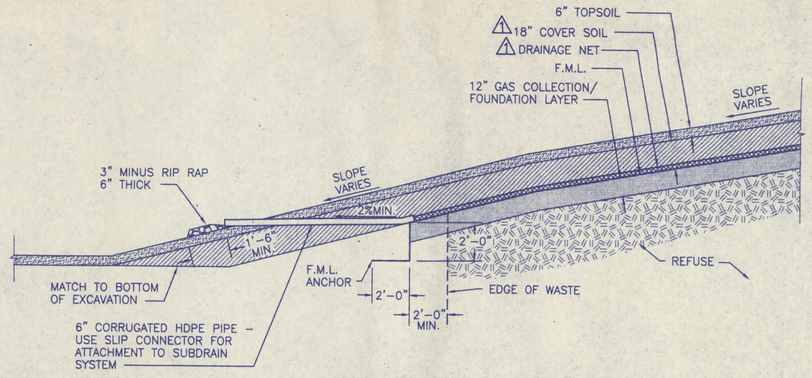
SECTION A 3|4
FINAL GRADING (EAST–WEST)
SCALE:
HORIZONTAL: 1" = 100'–0"
VERTICAL: 1" = 10'–0"



SECTION C 3|4
LANDFILL COVER SYSTEM
N.T.S.



SECTION B 3|4
FINAL GRADING (NORTH–SOUTH)
SCALE:
HORIZONTAL: 1" = 100'–0"
VERTICAL: 1" = 10'–0"



SECTION D 3|4
TYPICAL ANCHOR TRENCH

REV	DESCRIPTION OF REVISION	BY	DATE
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2	RESPONSE TO EPA/MDEQ COMMENTS	RJ	8/18/97

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8/18/97
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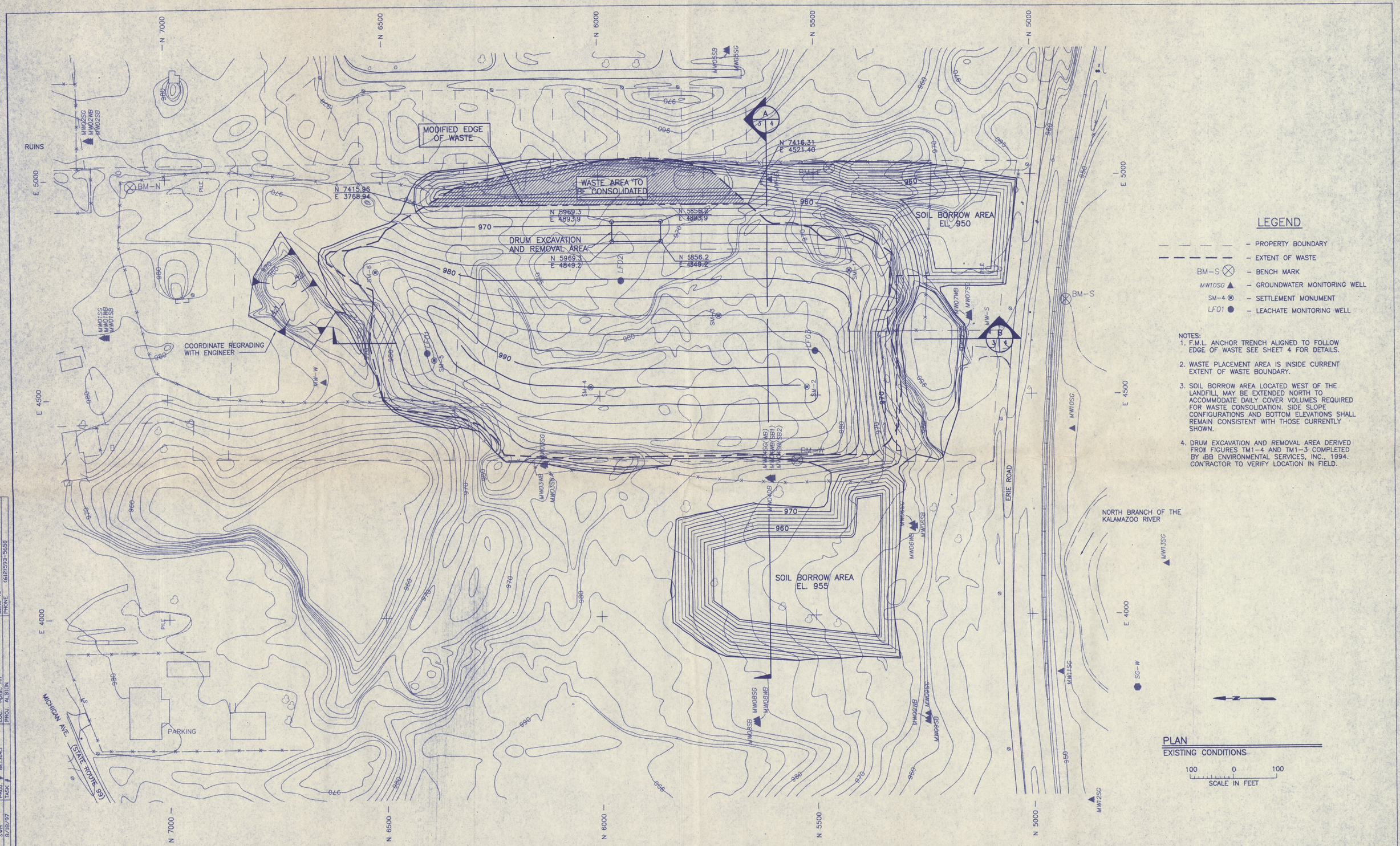
PEER REVIEWED	RMG
PROJECT MANAGER	RGG
DATE	8/18/97

Albion–Sheridan Township Landfill — Albion, Michigan

COVER SYSTEM
SECTIONS AND DETAILS

REVISION 2
PROJECT 63E13045
DRAWING 4
SHEET 4 OF 10

FILE # 3045-07 | SCALE 1/1 | DPWER. SWH | DATE 8/18/97 | PROJ. # 63E13045 | TASK # | LOC. Mpls., Mn. | PROJ. | SEND TO | PHONE (612)593-5650



LEGEND

- PROPERTY BOUNDARY
- EXTENT OF WASTE
- BM-S – BENCH MARK
- MW10SG – GROUNDWATER MONITORING WELL
- SM-4 – SETTLEMENT MONUMENT
- LF01 – LEACHATE MONITORING WELL

NOTES:

1. F.M.L. ANCHOR TRENCH ALIGNED TO FOLLOW EDGE OF WASTE SEE SHEET 4 FOR DETAILS.
2. WASTE PLACEMENT AREA IS INSIDE CURRENT EXTENT OF WASTE BOUNDARY.
3. SOIL BORROW AREA LOCATED WEST OF THE LANDFILL MAY BE EXTENDED NORTH TO ACCOMMODATE DAILY COVER VOLUMES REQUIRED FOR WASTE CONSOLIDATION. SIDE SLOPE CONFIGURATIONS AND BOTTOM ELEVATIONS SHALL REMAIN CONSISTENT WITH THOSE CURRENTLY SHOWN.
4. DRUM EXCAVATION AND REMOVAL AREA DERIVED FROM FIGURES TM1–4 AND TM1–3 COMPLETED BY BB ENVIRONMENTAL SERVICES, INC., 1994. CONTRACTOR TO VERIFY LOCATION IN FIELD.

PLAN

EXISTING CONDITIONS

100 0 100

SCALE IN FEET

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PROJECT MANAGER	RGG
DATE	8/18/97

Albion–Sheridan Township Landfill Albion, Michigan

GRADING AND WASTE CONSOLIDATION PLAN

REVISION 2

PROJECT 6E13045

DRAWING 3

SHEET 3 OF

FILE # 30145-11.DWG OPPER. SJH PROJ. # 6E13045 LOC. Mnts, Mn. SEND TO
SCALE 1:100 DATE 8/18/97 TASK # PROJ. ALBION PHONE (612)593-5650

GENERAL NOTES:

1. THE SITE IS LOCATED IN SECTION 36, TOWNSHIP AS, RANGE 4W, CALHOUN COUNTY, MICHIGAN.
2. ALL TOPOGRAPHICAL INFORMATION BASED ON 3/23/97 AERIAL SURVEY COMPLETED BY KBM, INC., GRAND FORKS, NORTH DAKOTA.
3. CALL 1-800-MISSDIG PRIOR TO EXCAVATION.
4. EDGE OF WASTE AS DEFINED IN 1996 WOODWARD-CLYDE PRE-DESIGN STUDIES REPORT.
5. BURIED DRUM AREA DERIVED FROM FIGURES TM1-4 AND TM1-3 COMPLETED BY ABB ENVIRONMENTAL SERVICES, INC., 1994.
6. DRUM STAGING/STORAGE MAY CHANGE SIZE, ORIENTATION OR LOCATION AS DETERMINED BY THE ENGINEER.
7. LEACHATE MONITORING WELLS WILL BE ABANDONED BY OTHERS PRIOR TO CONSTRUCTION.
8. SETTLEMENT MONUMENTS SHALL BE INCORPORATED UNDER THE LANDFILL CAP.

LEGEND

- PAVED ROAD
- UNPAVED ROAD
- RAILROAD
- BRIDGE, GUARDRAIL
- CULVERT
- BUILDING
- FIELD LINE
- FENCE LINE
- OBSCURED AREA PERIMETER
- CREEK
- RIVER
- LAKE, POND
- MARSH
- TREE EDGE
- SHRUB EDGE
- SINGLE TREES
- 100 INDEX CONTOUR
- INTERMEDIATE CONTOURS
- 100 DEPRESSED INDEX CONTOUR
- DEPRESSED INTERMEDIATE CONTOURS
- 100 OBSCURED INDEX CONTOUR
- OBSCURED INTERMEDIATE CONTOUR
- UTILITY POLE
- LIGHT POLE
- MANHOLE, CATCH BASIN
- SIGN, FLAGPOLE
- PROPERTY BOUNDARY
- BM-S BENCH MARK
- MW10SG GROUNDWATER MONITORING WELL
- SM-4 SETTLEMENT MONUMENT
- LF01 LEACHATE MONITORING WELL

PLAN
EXISTING CONDITIONS

100 0 100
SCALE IN FEET

REV	DESCRIPTION OF REVISION	BY	DATE
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PROJECT MANAGER	RGG
DATE	8/18/97

Ablion-Sheridan Township Landfill — Albion, Michigan

EXISTING SITE CONDITIONS

REVISION 2
PROJECT 6E13045
DRAWING 2
SHEET 2 OF 10

FILE # 3045-13.DWG OPPER: SWH DATE 8/18/97 PROJ. # 6E13045 LOC. Mpls, Mn SEND TO
SCALE: 1:600 USER: PROJ. ALBION-SHERIDAN PHONE 612/293-5650

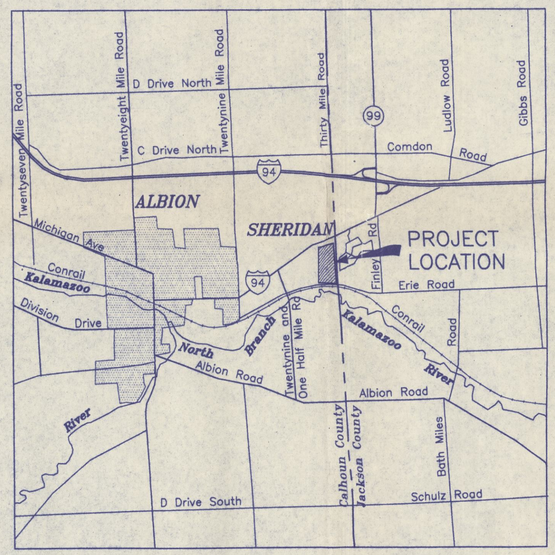
FINAL DESIGN DRAWINGS

LANDFILL COVER SYSTEM
ALBION-SHERIDAN TOWNSHIP LANDFILL

CALHOUN COUNTY, MICHIGAN

LOCATION MAP

NOT TO SCALE



VICINITY MAP

NOT TO SCALE

DRAWING INDEX

DRAWING NO.	TITLE
1	LOCATION MAPS AND DRAWING INDEX
2	EXISTING SITE CONDITIONS
3	GRADING AND WASTE CONSOLIDATION PLAN
4	COVER SYSTEM SECTIONS AND DETAILS
5	STORMWATER CONTROL PLAN
6	STORMWATER CONTROL SECTIONS AND DETAILS
7	PASSIVE LANDFILL GAS CONTROL PLAN
8	PASSIVE LANDFILL GAS CONTROL SECTIONS AND DETAILS
9	PERIMETER FENCE AND ACCESS ROAD PLAN AND DETAILS
10	EROSION CONTROL PLAN & DETAILS

PREPARED FOR
ALBION–SHERIDAN TOWNSHIP PRP GROUP
BY WOODWARD–CLYDE CONSULTANTS
MINNEAPOLIS, MINNESOTA

REV	DESCRIPTION OF REVISION	BY	DATE
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Albion–Sheridan Township Landfill — Albion, Michigan

LOCATION MAPS AND DRAWING INDEX
COVER SYSTEM

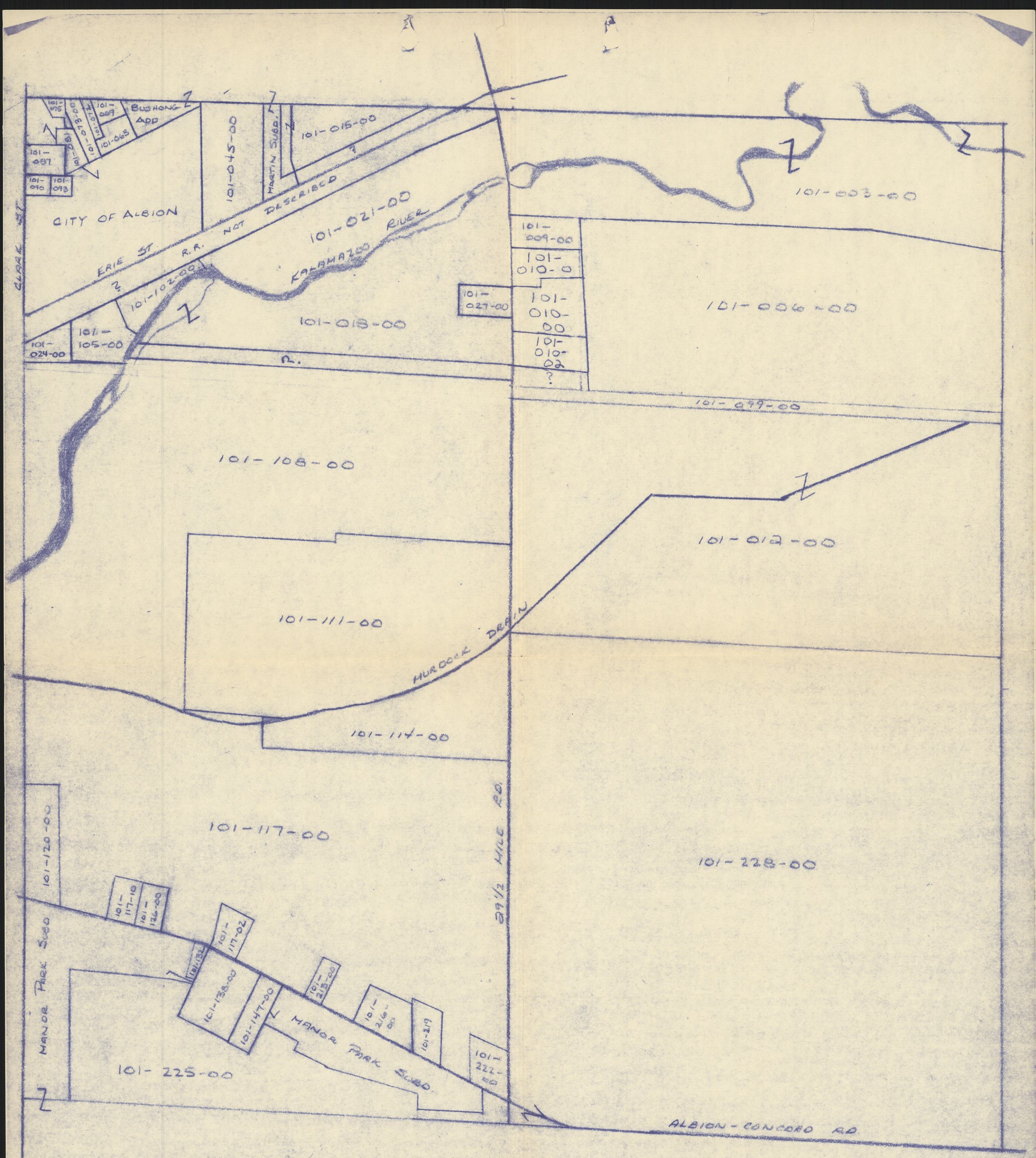
REVISION 2

PROJECT 6E13045

DRAWING 1

SHEET 1 OF 10

FILE # 3045-04 | SCALE 1 | OPPER. SWH | DATE 8/18/97 | PROJ. # 6E13045 | TASK # | LOC. | PROJ. | SEND TO | PHONE



CALHOUN COUNTY
ALBION TOWNSHIP
T3S R4W
SECTION 1 FRACTIONAL
SCALE 1"=400'

Fig 4

LEGEND

- APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
- PROPERTY BOUNDARY
- UNPAVED ROAD
- INTERMITTENT STREAM
- FENCE LINE
- RAILROAD TRACK
- MONITORING WELL LOCATION

0 100 300 600
SCALE IN FEET

ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

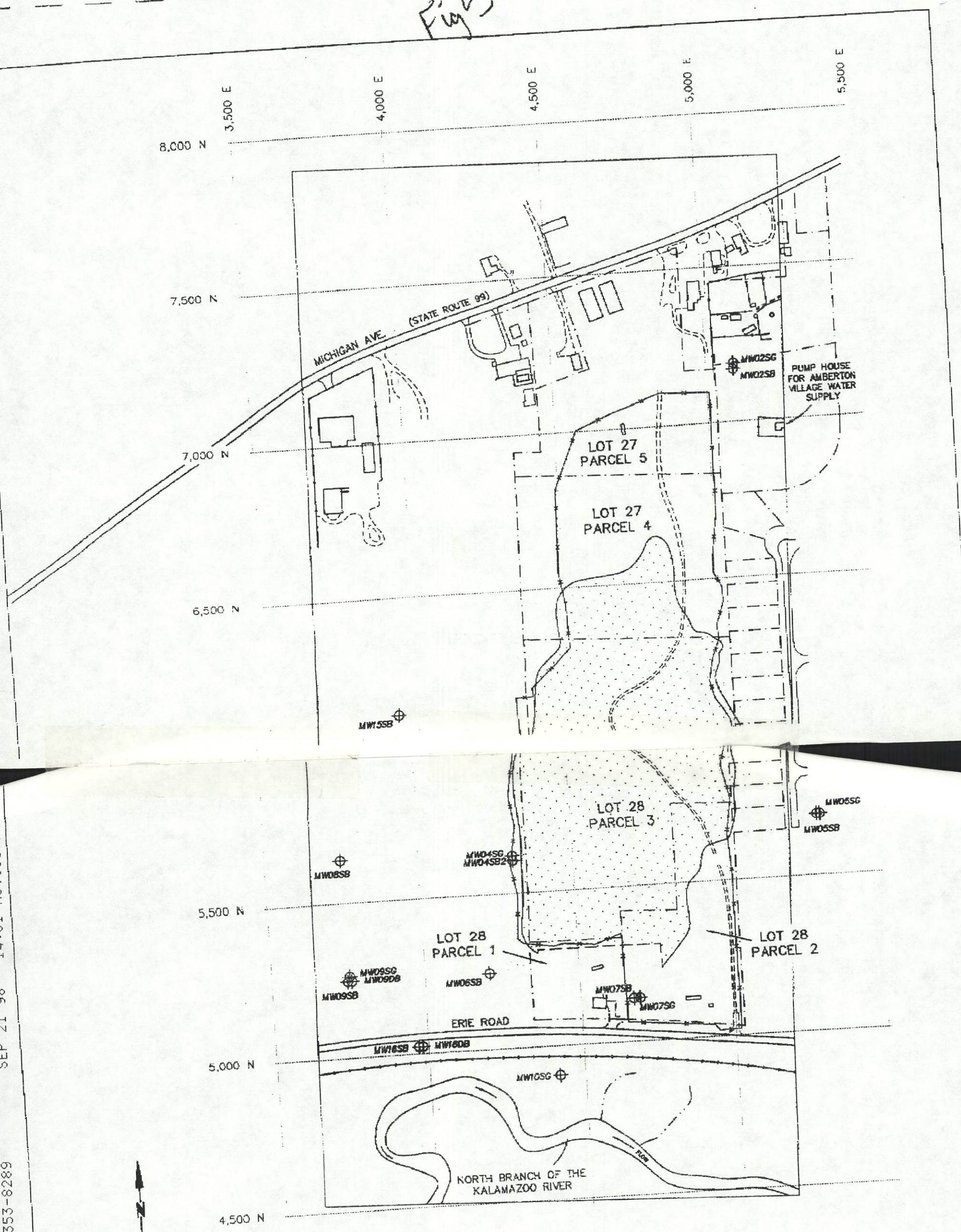
Woodward-Clyde Consultants
ENGINEERS, GEOLOGISTS, AND ENVIRONMENTAL SCIENTISTS

ANNUAL O & M
MONITORING WELL
LOCATION MAP

DRN BY: SWH	DATE: APR. 1997	PROJECT NO. 6E07013	FIG. NO. 4
CHK'D BY: DS	DATE: APR. 1997		

7013-04

Fig 5



LEGEND

- APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
- PROPERTY BOUNDARY
- UNPAVED ROAD
- INTERMITTENT STREAM
- FENCE LINE
- RAILROAD TRACK
- MONITORING WELL LOCATION

0 100 300 600
SCALE IN FEET

ALBION-SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

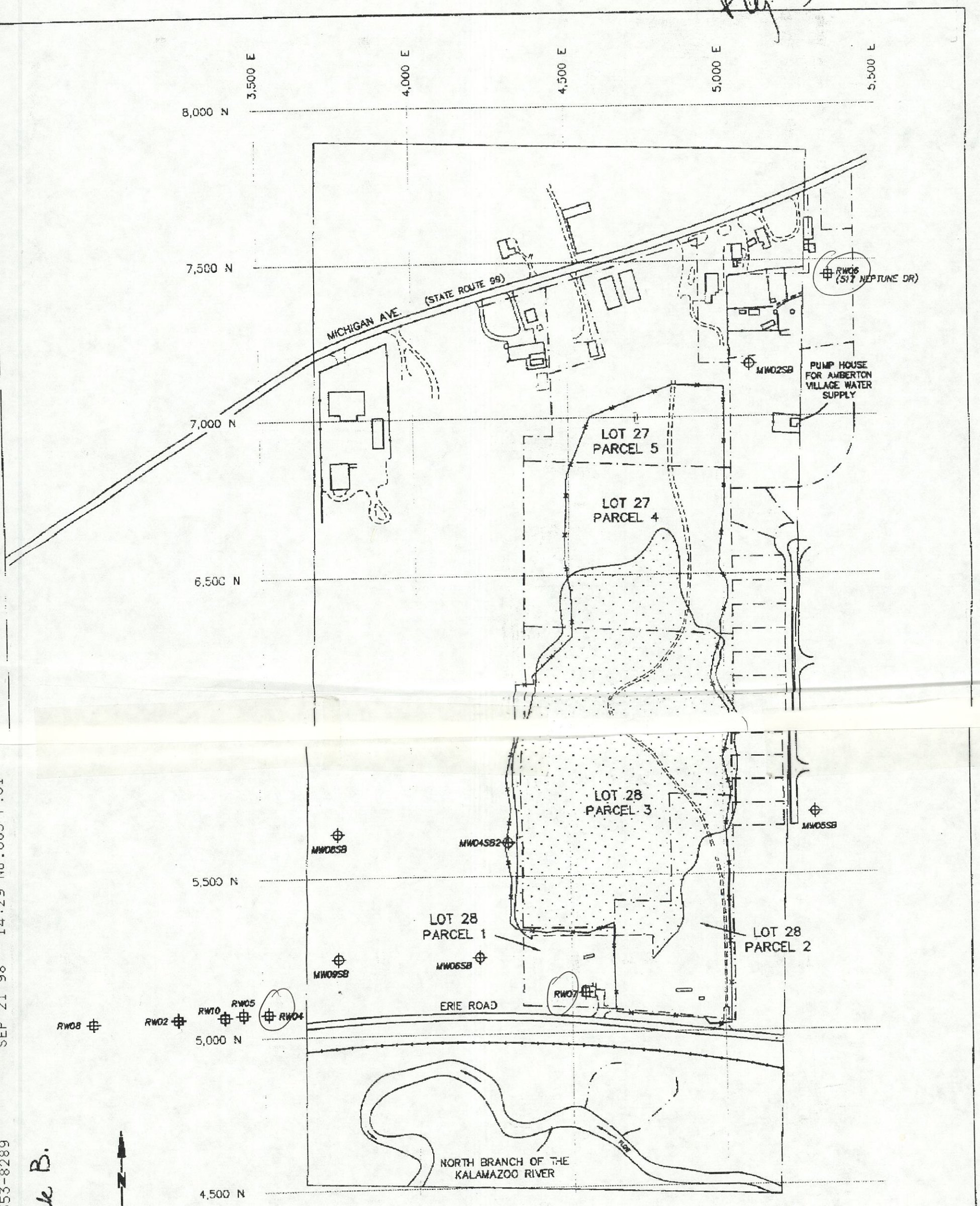
Woodward-Clyde Consultants
ENGINEERS, GEOLOGISTS, AND ENVIRONMENTAL SCIENTISTS

FIVE YEAR REVIEW
MONITORING WELL
LOCATION MAP

DRN BY: SWH	DATE: APR. 1997	PROJECT NO. 6E07013	FIG. NO. 5
CHKD BY: DS	DATE: APR. 1997		

7013-05

Fig 3



6 page to Deepak B.

LEGEND

- APPROXIMATE LANDFILL BOUNDARY (DASHED PORTIONS INDICATE THE SURVEY GRID BOUNDARY)
- PROPERTY BOUNDARY
- UNPAVED ROAD
- INTERMITTENT STREAM
- FENCE LINE
- RAILROAD TRACK
- MONITORING WELL LOCATION
- RESIDENTIAL WELL MONITORING LOCATION

0 100 300 600
SCALE IN FEET

ALBION–SHERIDAN TOWNSHIP LANDFILL
ALBION, MICHIGAN

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QUARTERLY O & M GROUNDWATER AND DRINKING WATER WELL MONITORING LOCATION MAP

DRN BY: SWH	DATE: APR. 1997	PROJECT NO. 6E07013	FIG. NO. 3
CHK'D BY: DS	DATE: APR. 1997		

7013-03