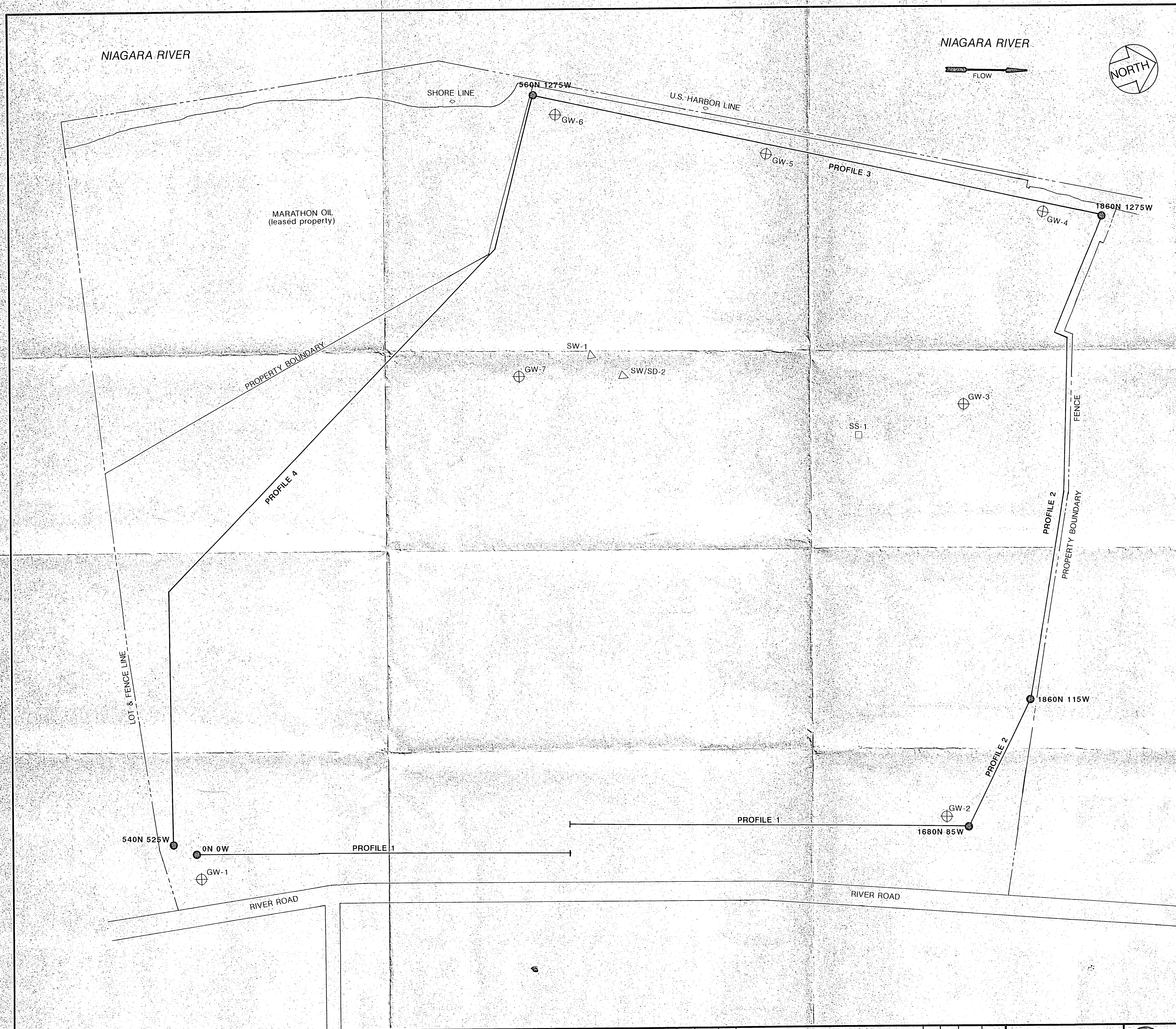




NOTES:

- 1) REFER TO DRAWING No.1 FOR GENERAL NOTES.
- 2) FOR DETAILED INFORMATION PERTAINING TO TERRAIN CONDUCTIVITY STUDY SEE APPENDIX B.
- 3) COORDINATE SYSTEM BASED ON A 0 NORTH 0 WEST ARBITRARY STARTING POINT SET AT THE SOUTHEAST CORNER ON A OLD STONE PARKING LOT PARALLEL TO FENCE
- 4) SINCE NO BEARINGS WERE MAINTAINED DURING THE FIELD SURVEY, PROFILE LOCATIONS ARE ESTIMATED BASED ON FIELD MEASUREMENTS.

LEGEND:

REFER TO DRAWING No.1 FOR GENERAL LEGEND.

- TERRAIN CONDUCTIVITY PROFILE LINE
- DENOTES STARTING, TURNING OR ENDING POINT OF A PROFILE LINE

Rev	Date	By	Description	Ckd	Date	App	Date	Rev	Date	By	Description	Ckd	Date	App	Date	Rev	Date	By	Description	Ckd	Date	App	Date



RECRA RESEARCH, INC.
BUFFALO, NEW YORK

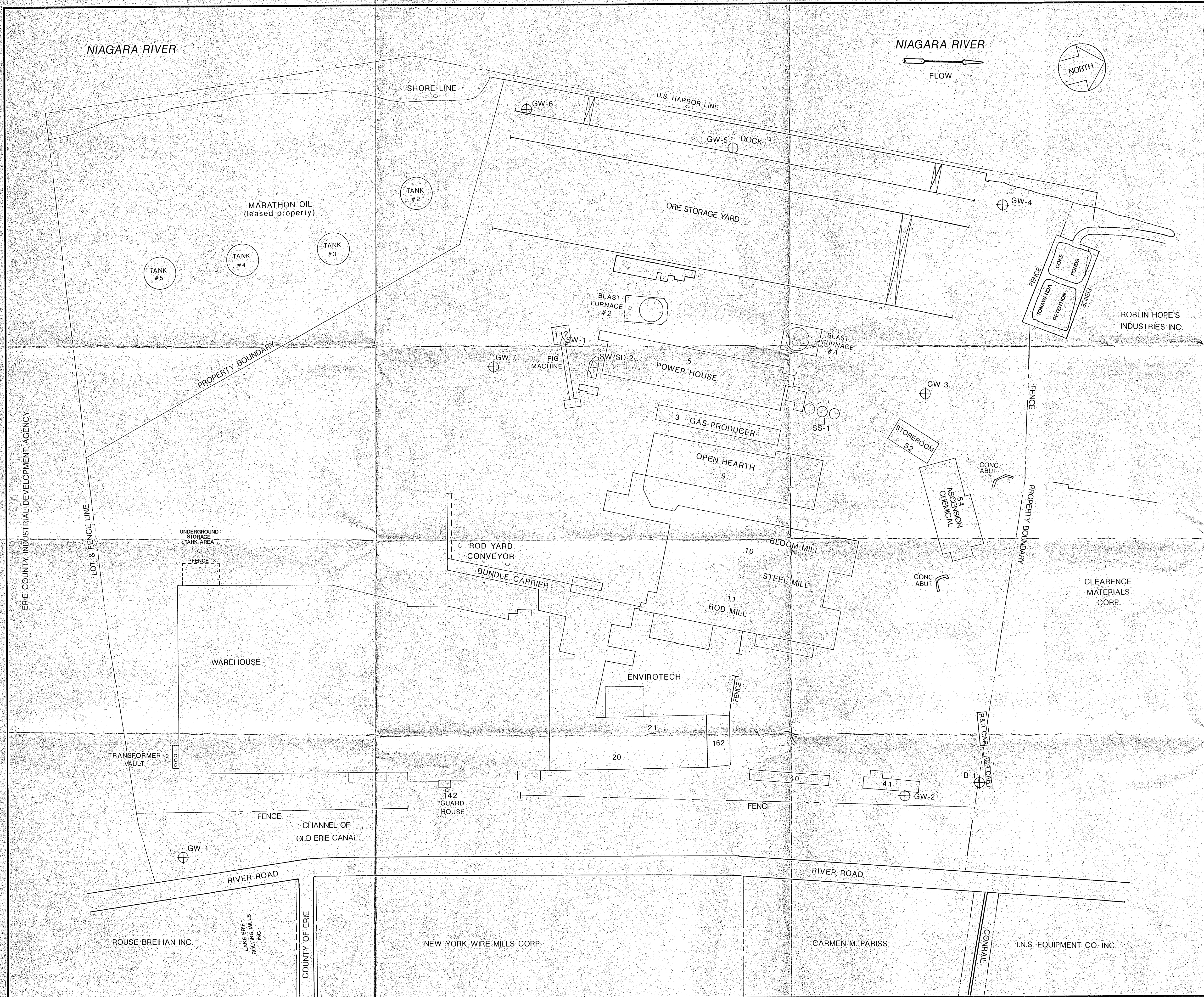
Scale:	1"=100'
By:	Date
Dwn:	JTB 2/89
Ckd:	
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App:	

ROBLIN STEEL COMPANY
TONAWANDA, NEW YORK
NYSDEC SUPERFUND
PHASE II INVESTIGATION

Project No. **8C1301F**

**TERRAIN CONDUCTIVITY
SURVEY LOCATIONS**

D PLATE B



I.D. No.	CASING ELEV.		GRADE ELEV.	COORDINATES	
	STEEL	PVC		NORTH	EAST
GW-1	577.82	578.36	576.5	2000.00	2000.00
GW-2	582.95	582.90	580.7	3519.38	1855.27
GW-3	579.45	579.34	577.5	3616.18	1011.35
GW-4	577.43	577.33	574.9	3849.42	621.95
GW-5	575.24	575.11	572.3	3233.45	464.36
GW-6	574.94	574.85	572.4	2811.11	402.10
GW-7	582.96	582.85	580.2	2724.66	986.16
SW-1	-	-	573.3	2826.50	924.46
SS-1	-	-	582.4	3419.18	1078.68
SW/SD-2	-	-	575.4	2873.40	998.74

NOTES:

1) THIS MAP SHOULD NOT BE USED FOR PROPERTY CONVEYANCE.

2) PROPERTY BOUNDARY INFORMATION OBTAINED FROM ROBLIN STEEL COMPANY, GENERAL PROPERTY LAYOUT EXISTING SEWER LINES, DRAWING No.0500-00015 (6/71).

3) BENCH MARK IS BASED ON TRAUTMAN ASSOCIATES BORING B-1. ELEVATION 584.52± FROM TOP OF CASING (9/17/80).

4) LOCATION OF MONITORING WELLS AND SAMPLE POINTS PLOTTED USING BASE MAP BY EDWARD O. WATTS AND ASSOCIATES DRAWING No.EJ010489 (REV. 1/24/89).

COORDINATES ARBITRARILY ASSUMED NORTH 2000.00 AND EAST 2000.00 AT GW-1.

- LEGEND:
- ⊕ GROUNDWATER MONITORING WELL
 - △ SURFACE WATER AND/OR SEDIMENT SAMPLE
 - SOIL SAMPLE
 - PROPERTY BOUNDARY/LOT & FENCE

BRUNING 61120

Rev	Date	By	Description	Ckd	Date	App	Date	Rev	Date	By	Description	Ckd	Date	App	Date	Rev	Date	By	Description	Ckd	Date	App	Date

RECR
ENVIRONMENTAL, INC.
AMHERST, NEW YORK

Scale: 1" = 100'
Dwn: JTB, 2/89
Ckd:
App:
App:

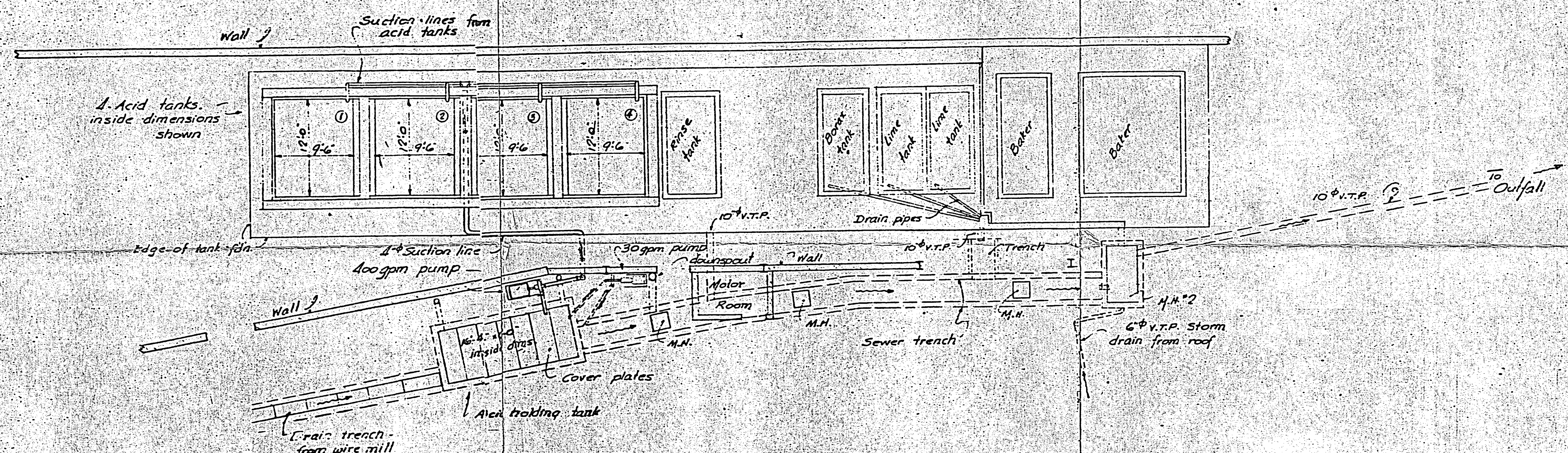
ROBLIN STEEL COMPANY
TONAWANDA, NEW YORK

NYSDEC SUPERFUND
PHASE II INVESTIGATION

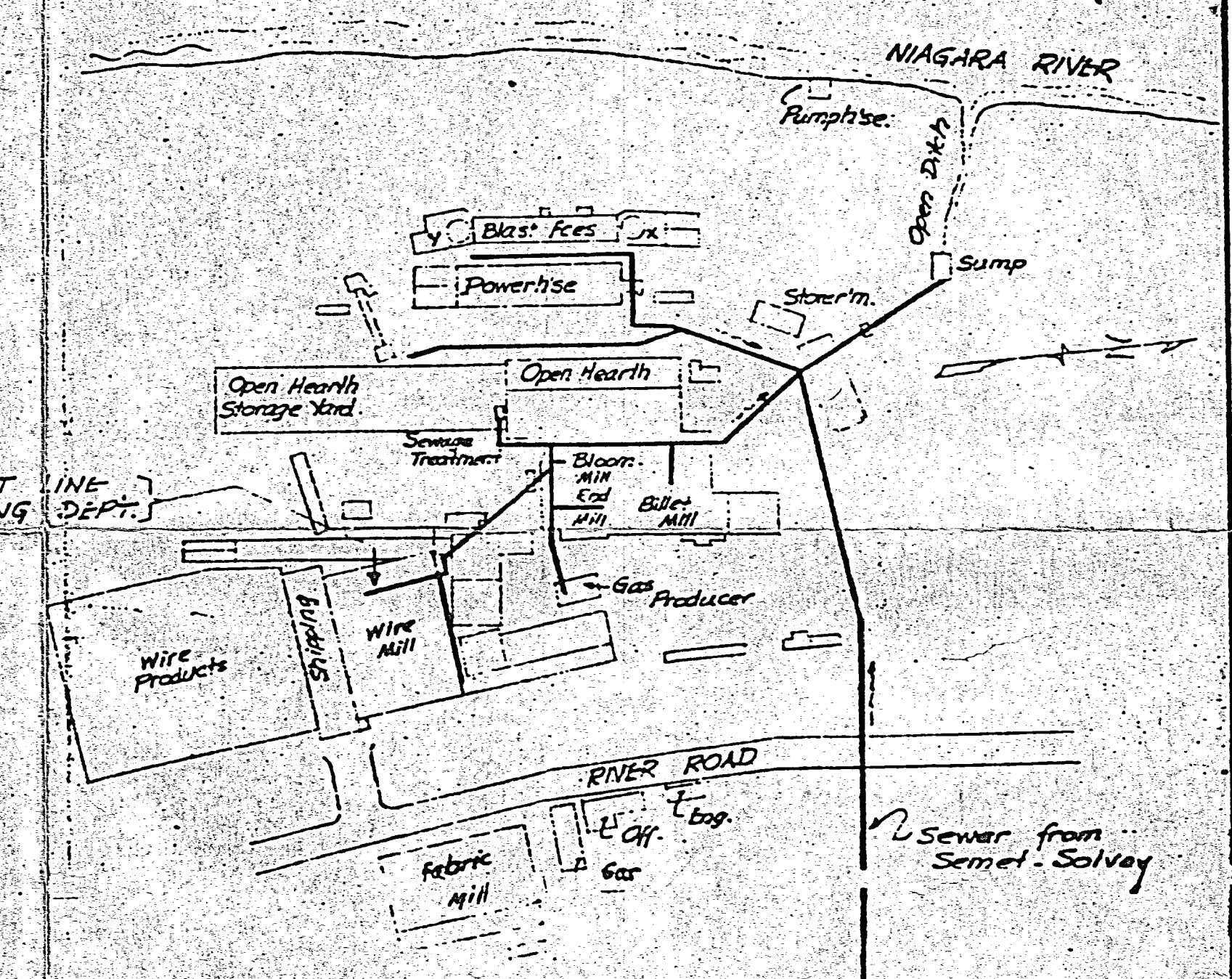
Project No. 8C-1301F

SITE PLAN

PLATE A



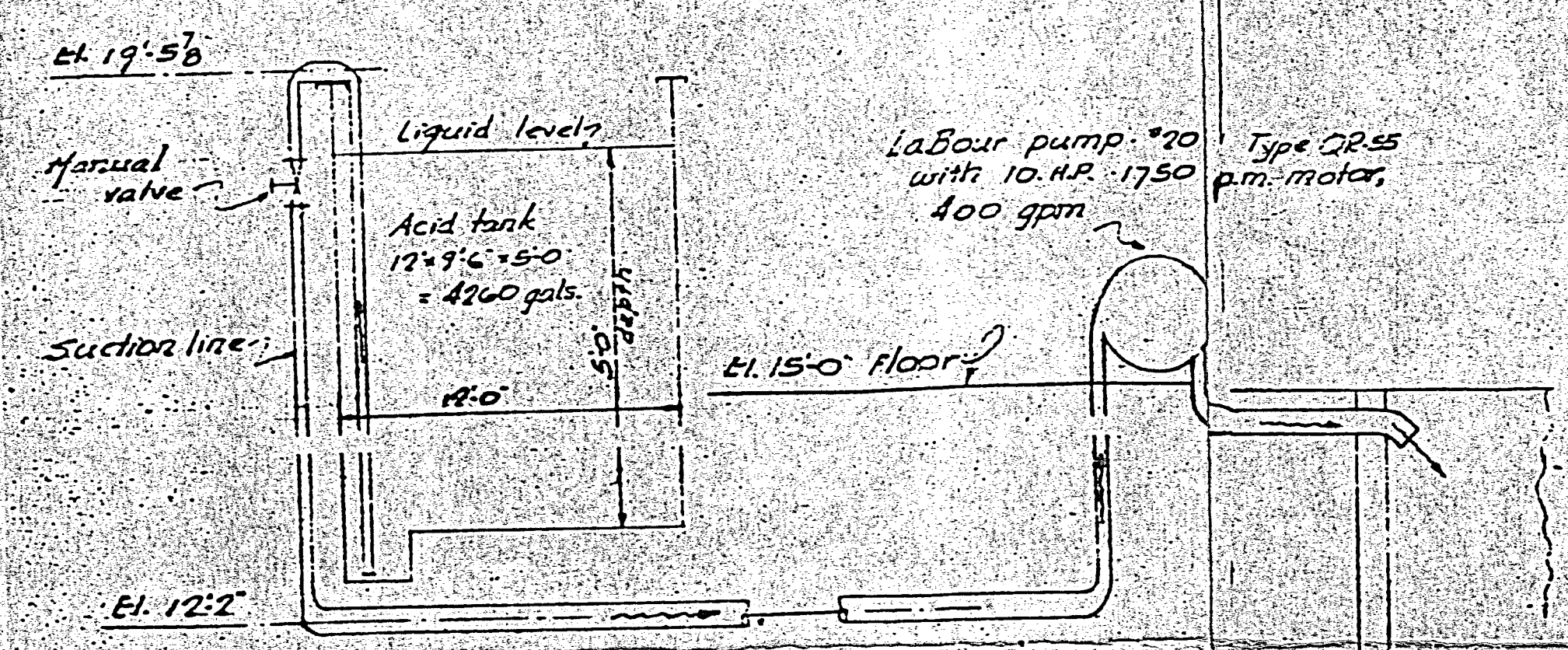
PLAN OF ST. LINE CLEANING DEPT.
SHOWING ST. LINE ARR'G. OF SEWERS
& ACID DISPOSAL METHOD.
 Scale: 1/8" = 1'-0"



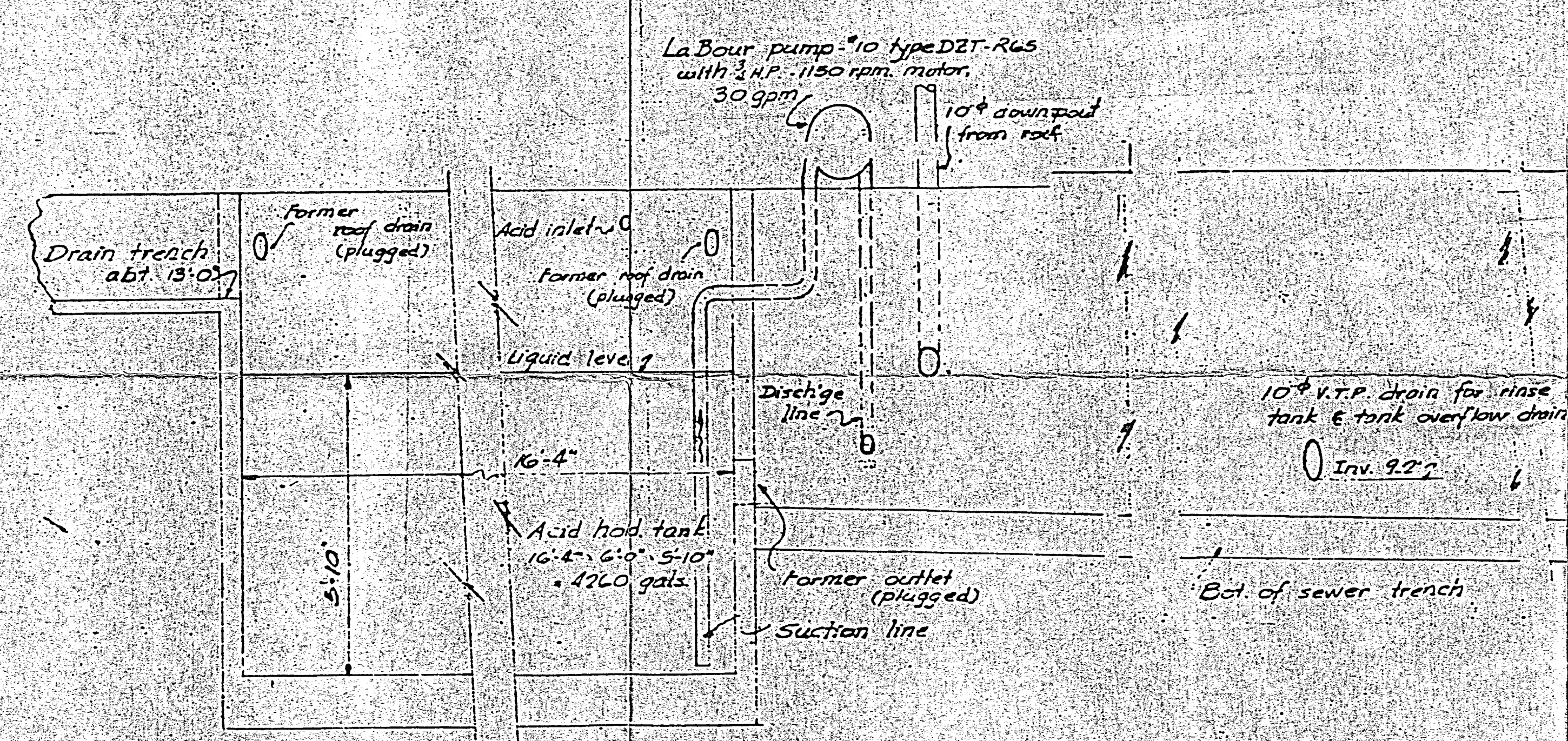
PLOT PLAN SHOWING SEWERS

NOTES:
 1. Acid is pumped from tanks to holding tank by 400 gpm pump.
 2. Acid is pumped from holding tank to sewer by 30 gpm pump.

NEW YORK STATE DEPARTMENT OF HEALTH
 BUREAU OF ENVIRONMENTAL SANITATION
 AND
 WATER POLLUTION CONTROL BOARD
 Albany, N. Y. JAN 22 1957
 These plans for Waste Treatment Works
Wickwire Spencer Steel Div. - Lane Ward
 are hereby approved pursuant to law, subject to the provisions of the
 permit issued this day.
 Earl Scudlough
 Director, Bureau of Environmental Sanitation
 Charles F. Duggan
 Executive Secretary, Water Pollution Control Board



Method of pumping acid solution from acid tanks - one shin. balance same.



PROFILE OF HOLDING TANK
& ADJACENT SEWERS.
 Vert scale: 1/2" = 1'-0"
 Horiz. scale: 3/16" = 1'-0"

PART NO.	REV.	DESCRIPTION	MATERIAL	ITEM
WICKWIRE SPENCER STEEL				
DIV. OF THE COLORADO FUEL AND IRON CORP.				
RIVER ROAD BUFFALO 7, N. Y.				
2		DEPT. WIRE MILL (st. line rod cleaning)		
8		TITLE ACID DISPOSAL DETAILS		
2				
BY E				
DATE 11-5-56				
AB-8666				

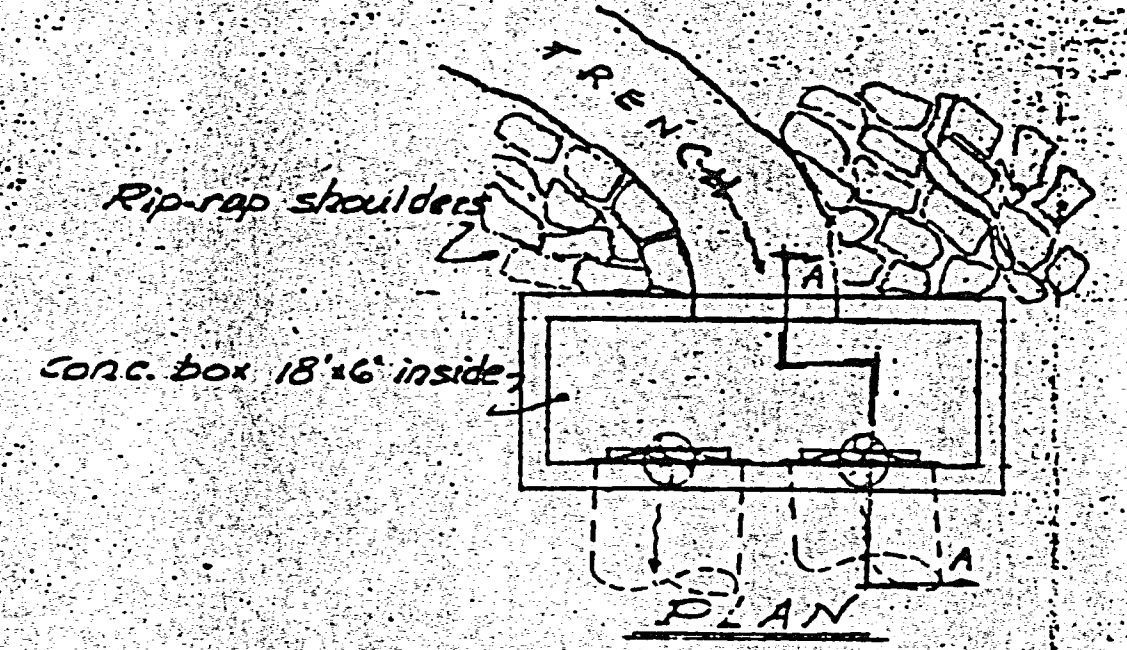
CF&I STEEL CORP.

MAR 25 1993

MAILED
ENGINEERING DEPARTMENT

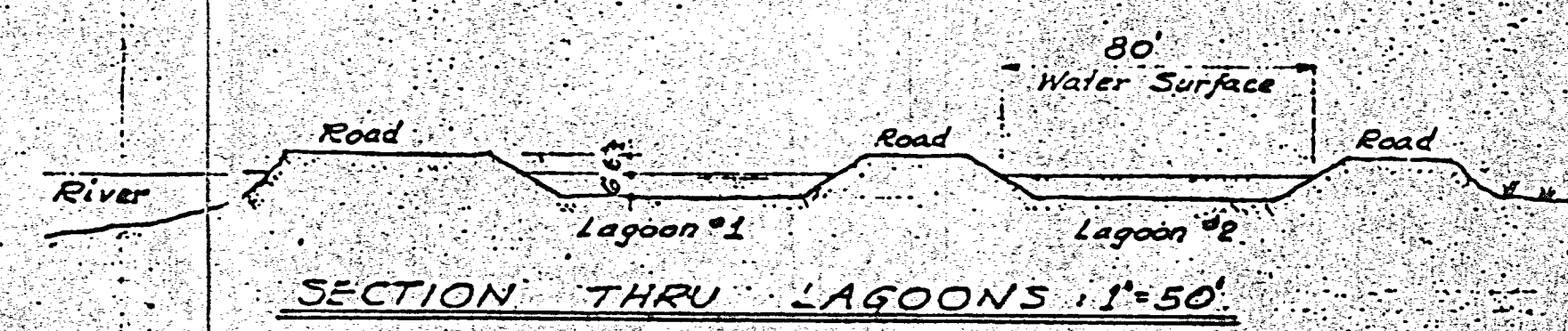
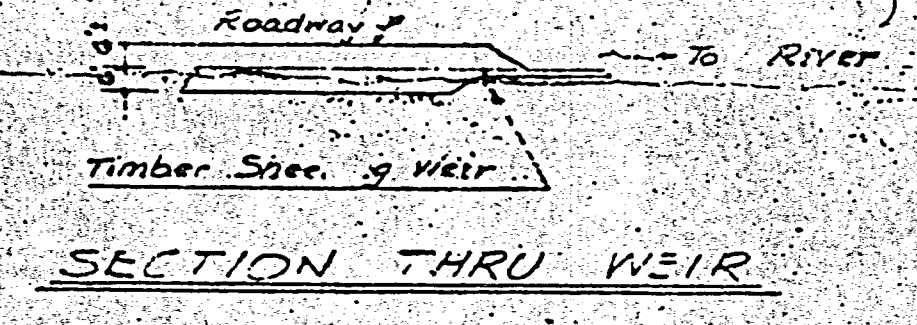
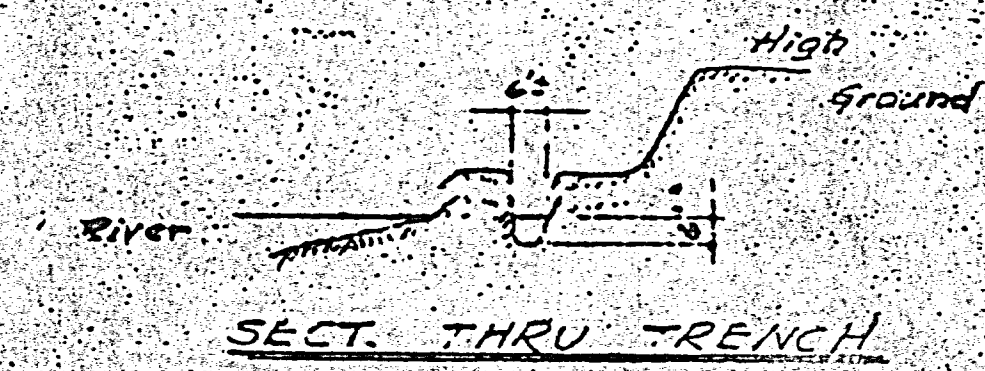
To Buffalo

NIAGARA RIVER



SECTION A-A
DETAIL 'A' - Diversion Box

To Niagara Falls



Lagoons 800' long
NEW YORK STATE DEPARTMENT OF HEALTH
BUREAU OF ENVIRONMENTAL SANITATION
AND
WATER POLLUTION CONTROL BOARD
Albany, N. Y. - AUG 19 1957

These plans for waste treatment works for Wickwire
Spencer Steel Division of the Colorado Fuel and Iron Corp.
TOWNSHIP AND TONAWANDA
are hereby approved pursuant to law, subject to the provisions
of the permit issued this day.

Paul Scarduff
Director, Bureau of Environmental Sanitation
Camp F. Sapp
Executive Secretary, Water Pollution Control Board

PART NO.	NO. SHE.	DESCRIPTION	MATERIAL	ITEM
WICKWIRE SPENCER STEEL				
DIV. OF THE COLORADO FUEL AND IRON CORP.				
RIVER ROAD BUFFALO, N. Y.				
FILE	1	DEPT. GENERAL PLANT		
PROJECT	8	TITLE SETTLING LAGOONS		
FOLED	0			
APPROVED BY				
APPROVED DATE	BY	K		
1	Diversion Box added	8-1-57		
NO.	REVISIONS	DATE	DRAWN	CHECKED

AB-8806

Plant effluent from existing sewer to be dammed up.

High Ground (slag, stone, misc. fill)
(Approx. 25' above Nia. River)

FUEL

IRON

swampy

ground

CORPORATION

ERIE

RIVER

CANAL

ROAD

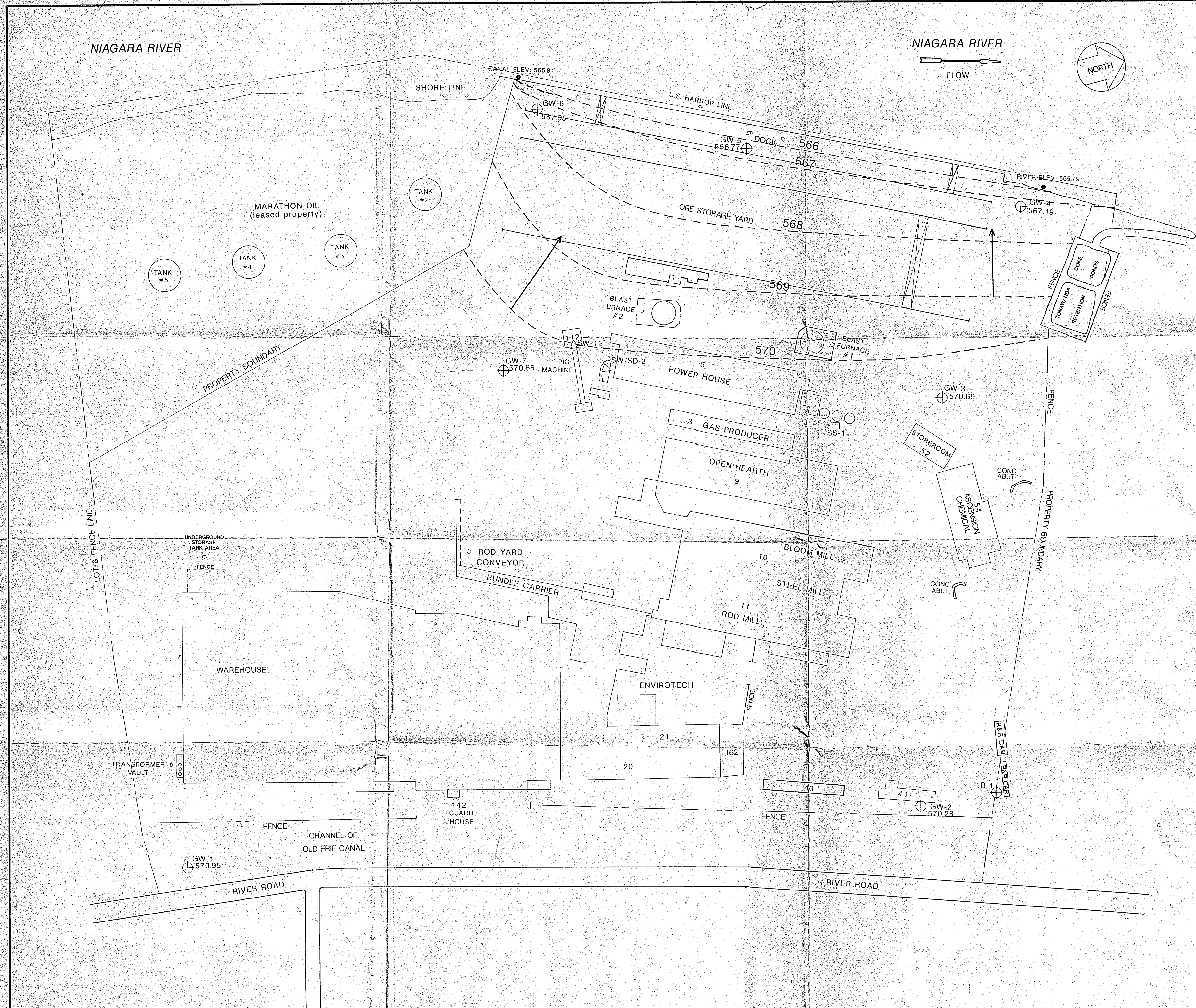
GENERAL PLAN
Scale: 1" = 100'

TOWN of TONAWANDA
ERIE COUNTY, NEW YORK

CF&I STEEL CORP.

MAR 23 1993

MAILED
ENGINEERING DEPARTMENT



ID. No.	CASING ELEV.		GRADE ELEV.	COORDINATES	
	STEEL	PVC		NORTH	EAST
GW-1	577.82	578.36	576.5	2000.00	2000.00
GW-2	582.95	582.90	580.7	35 19.38	1855.27
GW-3	579.45	579.34	577.5	36 16.18	-1011.35
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GW-7	582.96	582.85	580.2	27 24.66	986.16
SW-1	-	-	573.3	28 26.50	924.46
SS-1	-	-	582.4	34 19.18	1078.68
SW/SD-2	-	-	575.4	38 17.40	998.74

NOTES:

- 1) THIS MAP SHOULD NOT BE USED FOR PROPERTY CONVEYANCE.
 - 2) PROPERTY BOUNDARY INFORMATION OBTAINED FROM ROBLIN STEEL COMPANY, GENERAL PROPERTY LAYOUT EXISTING SEWER LINES, DRAWING NO.0500-00015 (6/71).
 - 3) BENCH MARK IS BASED ON TRAUTMAN ASSOCIATES BORING B-1, ELEVATION 584.52± FROM TOP OF CASING (9/17/80).
 - 4) LOCATION OF MONITORING WELLS AND SAMPLE POINTS PLOTTED USING BASE MAP BY EDWARD O. WATTS AND ASSOCIATES DRAWING NO.EJ010489 (REV 1/24/89).
- COORDINATES ARBITRARILY ASSUMED NORTH 2000.00 AND EAST-2000.00 AT GW-1
-
- 5) GROUNDWATER CONTOURS WERE DEVELOPED USING LINEAR INTERPOLATIONS OF WATER LEVEL MEASUREMENTS MADE IN WIDELY SPACED MONITORING WELLS AND ARE SHOWN TO ILLUSTRATE GENERAL GROUNDWATER PATTERNS FOR THE CONTEXT OF THIS REPORT. THE CONTOUR LINES ARE APPROXIMATE AND ACTUAL GROUNDWATER ELEVATIONS WILL VARY FROM THE CONTOUR SHOWN.
 - 6) THE CONTOURS SHOWN ARE INTERPRETATIONS OF GROUNDWATER LEVEL MEASUREMENTS MADE BY RECREA' ENVIRONMENTAL INC. ON 1/18/89.
 - 7) FLUCTUATIONS OF GROUNDWATER LEVELS, DIRECTIONS AND FLOW RATES MAY OCCUR DUE TO VARIATIONS IN SURFACE WATER LEVEL, PRECIPITATION, PUMPING RATES, BAROMETRIC PRESSURE AND OTHER FACTORS FROM THE TIME THE MEASUREMENTS WERE TAKEN.

LEGEND

- ⊕ GW-2 GROUNDWATER MONITORING WELL
 (570.28) GROUNDWATER ELEVATION MEASURED ON 1/18/89
 △ SURFACE WATER AND/OR SEDIMENT SAMPLE
 □ SOIL SAMPLE
 -- -- PROPERTY BOUNDARY/LOT & FENCE
 — — ESTIMATED GROUNDWATER CONTOUR LINE FOR MONITORING WELLS SCREENED WITHIN THE TOP OF THE WATER TABLE
 ↑ GROUNDWATER FLOW DIRECTION

[illegible]

Scale:	1" = 100'
By:	Date
Dwn.	JTB 2/89
Ckd.	
App.	
App.	

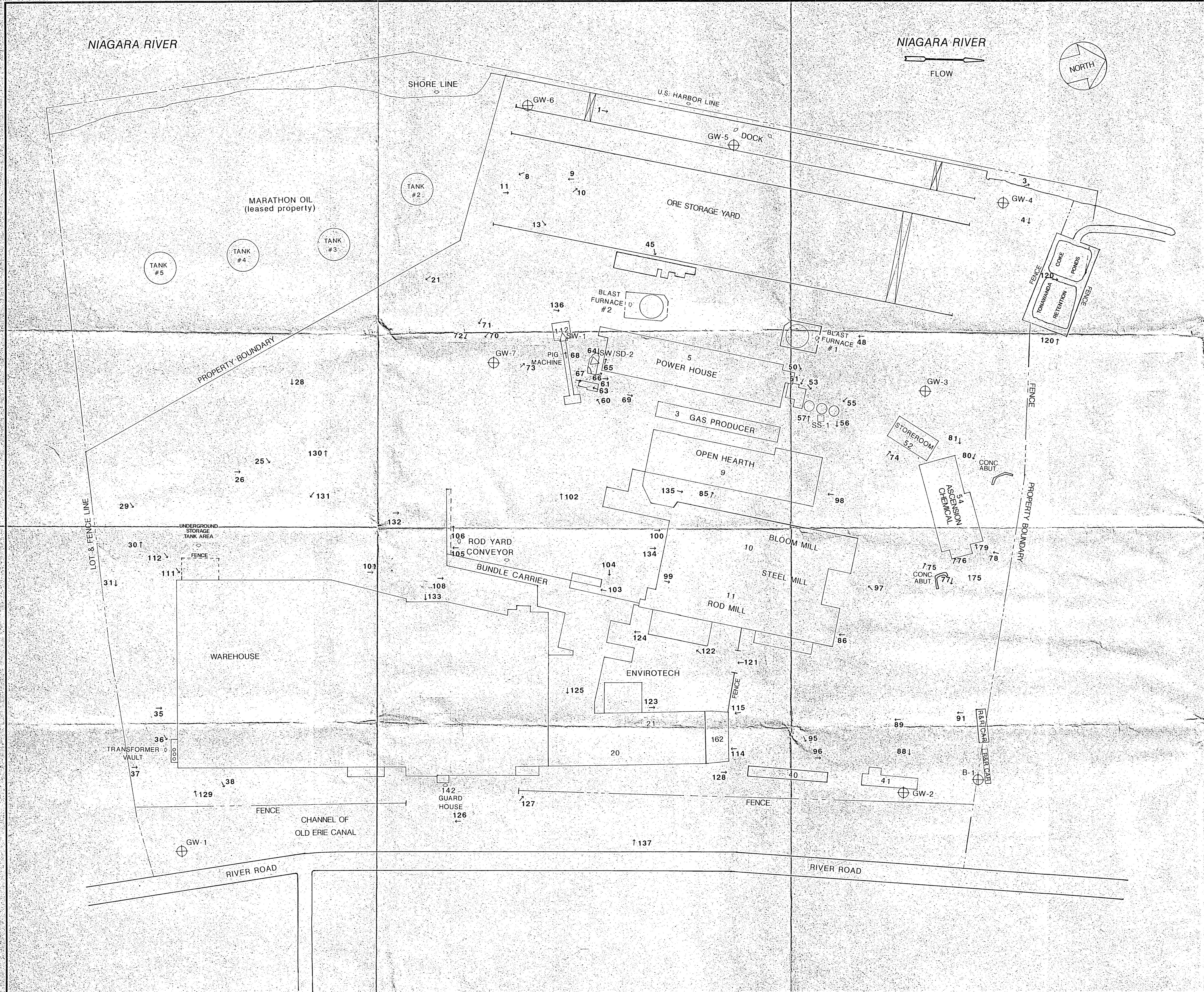
ROBLIN STEEL COMPANY
TONAWANDA, NEW YORK

NYSDEC SUPERFUND
PHASE II INVESTIGATION

Project No. **8C1301F**

GROUNDWATER CONTOUR MAP

PLATE C



- NOTES:
- 1) THIS MAP SHOULD NOT BE USED FOR PROPERTY CONVEYANCE.
 - 2) PROPERTY BOUNDARY INFORMATION OBTAINED FROM ROBLIN STEEL COMPANY. GENERAL PROPERTY LAYOUT EXISTING SEWER LINES. DRAWING No.0500-00015 (6/71).
 - 3) BENCH MARK IS BASED ON TRAUTMAN ASSOCIATES BORING B-1. ELEVATION 584.52± FROM TOP OF CASING (9/17/80).
 - 4) LOCATION OF MONITORING WELLS AND SAMPLE POINTS PLOTTED USING BASE MAP BY EDWARD O. WATTS AND ASSOCIATES DRAWING No.EJ010489 (REV 1/24/89). COORDINATES ARBITRARILY ASSUMED NORTH 2000.00 AND EAST 2000.00 AT GW-1.
 - 5) PHOTOGRAPHS WERE TAKEN BY RECRA ENVIRONMENTAL INC. DURING SITE RECONNAISSANCE ON 11/15, 18, 22/88.

- LEGEND:
- ⊕ GROUNDWATER MONITORING WELL
 - △ SURFACE WATER AND/OR SEDIMENT SAMPLE
 - SOIL SAMPLE
 - PROPERTY BOUNDARY/LOT & FENCE

Rev	Date	By	Description	Ckd	Date	App	Date	Rev	Date	By	Description	Ckd	Date	App	Date	Rev	Date	By	Description	Ckd	Date	App	Date



Scale:	1"=100'
By:	Date
Dwn:	JTB 2/89
Ckd:	JRS 3/89
App:	
App:	

ROBLIN STEEL COMPANY
TONAWANDA, NEW YORK
NYSDEC SUPERFUND
PHASE II INVESTIGATION

Project No.	8C1301F	REFERENCE 3
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