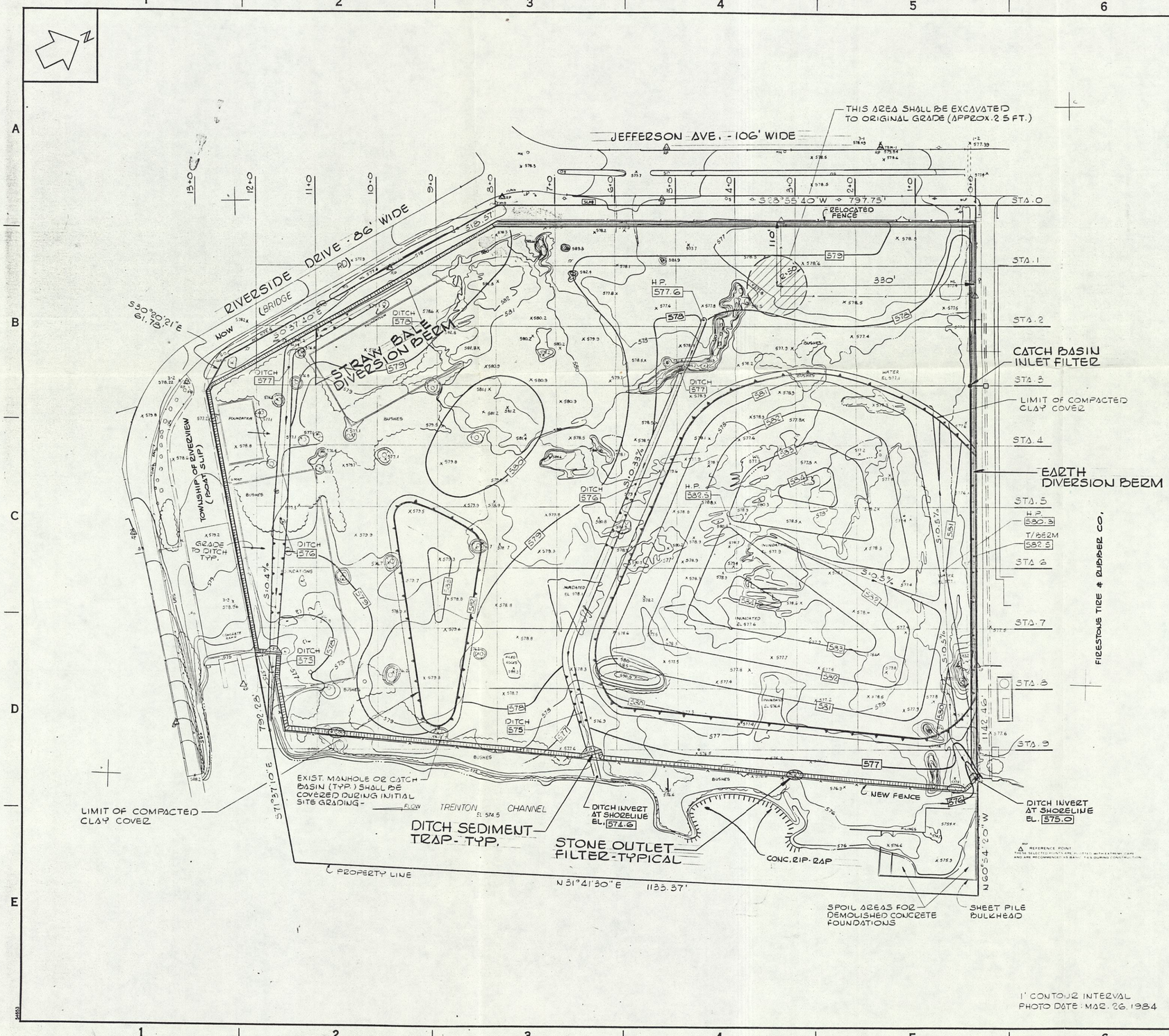

SOIL EROSION & SEDIMENT CONTROL NOTES

1. All soil erosion & sediment control measures applicable to this project shall be in accordance with "Wayne County Soil Conservation District Standards & Specifications for Soil Erosion & Sediment Control" adopted September 24,1974 & as noted on drawings.
2. All soil erosion & sediment control measures shall be installed prior to any major soil disturbance & maintained until permanent protection is established.
3. Soil erosion & sediment control measures shall not be removed without the written consent of the city of Riverview Engineer & BWC.
4. Permanent shallow-rooted vegetation to be seeded within 14 days after final grading. Mulch applied as necessary for protection until vegetative growth is established.
5. All disturbed areas shall be limed, fertilized, seeded & mulched.
6. Entire grading operation shall be completed between June 18, 1984 and December 31, 1984.
7. Earth diversion berms shall be constructed and maintained at all perimeter fence gate openings.

AGRONOMIC RECOMMENDATIONS

1. Distrub as little area as possible when excavating for 100 foot diameter area, underground pipe, catch basin & manhole, demolishing existing foundations & relocating existing materials.
2. Lime, fertilize, seed & mulch as soon as possible after final grading.
   (a) Apply lime & fertilizer according to soil test recommendations.
   (b) Seeding type & rate per acre shall be per recommendations given in "Wayne County Soil Conservation District Standards & Specifications for Soil Erosion & Sediment Control" adopted September 24, 1974 section "Vegetative Protection of Developing Areas".
3. Immediately after seeding, mulch all seeded areas with unweathered small grain straw (preferably wheat) or hay spread uniformly at the rate of 1.5 to 2 tons per acre.
   (a) Mulch shall be mixed with emulsified asphalt injected at mulch blower nozzle at a minimum rate of 200 gal. per acre, as required to hold mulch in place until seeding germinates & provides erosion protection.
4. Grassed ditches, swales & other high drainage velocity areas shall have mulch anchored with excelsior blankets. The excelsior blanket shall be a consistent thickness of evenly distributed wood excelsior fibers, 80% of which are 6 inches or more in length. The top side of the blanket shall be covered with a coarse net of twisted kraft paper or biodegradable extruded plastic mesh. Blankets may be applied on slopes either horizontally or vertically. Ends and sides shall be securely butted and stapled with U-shaped wire staples of a size and length suited to the soil conditions.

RECOMMENDED CONSTRUCTION SEQUENCE

1. Construct soil erosion & sediment control measures,
   (a) Earth berm on north & west sides.
   (b) Straw bales along shore side with stone filters & south side.
2. Install fencing at shore side of site.
3. Demolish & remove existing foundations.
4. Construct drainage ditches & install catch basin with underground pipe. Construct sediment control measures at catch basin & ditch outfalls.
5. Initial site grading & relocation of existing materials.
6. Construct compacted clay cover.
7. Place topsoil.
8. Concrete line selected ditches
9. Seed & Mulch
10. Remove straw bales after vegetation is established.

US EPA RECORDS CENTER REGION 5
487379

NOTES

1. For Soil Erosion & Sediment Control Details see Dwg. 6097-15-2.
2. For Finish Grading See Dwg. 6097-15-4.

REV. NO.	DATE	BY	CHK'D	APV'D	APV'D	DESCRIPTION	APPR. NO.	JOB NO.	REFERENCE DRAWING	DWG. NO.
1	7/2/84	TM	MR	MR		REVISED COVE ZIP-ZAP				
0	5/31/84	TM				ISSUED FOR CONSTRUCTION				
A	5/15/84	TM			MR	ISSUED FOR SOIL EROSION & SEDIMENT CONTROL PERMITS				

DRAWN BY MALONEY DATE 5-19-84
CHECKED BY ROSS DATE 5-25-84

APPROVALS: MGR CIVIL MR 7/11/84; CIVIL ENGR F.T.R. 7/11/84; PROJ. MGR MR 7/11/84

TITLE: RIVERVIEW SITE SOIL EROSION & SEDIMENT CONTROL PLAN

LOCATION: RIVERVIEW, MI.

CLASSIFICATION: SITE

BASF Wyandotte Corporation

APPR. NO. 6097
PROJ. NO. 89-10-093
JOB NO.
SCALE 1" = 80'

DRAWING NUMBER: 6097-15-1

REV. NO. 1

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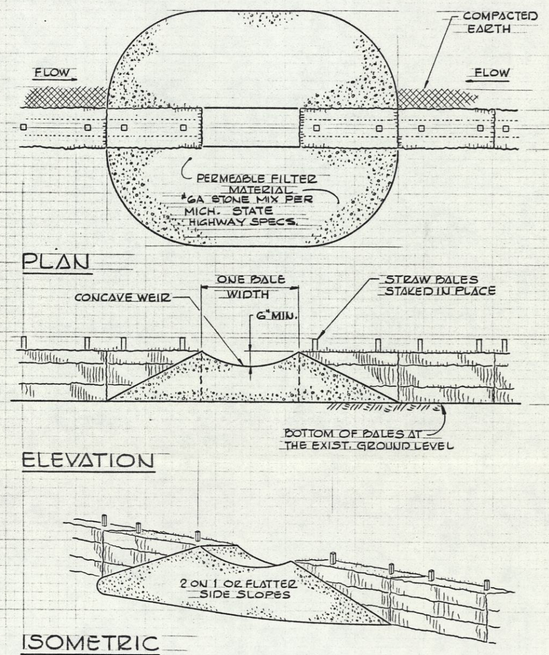
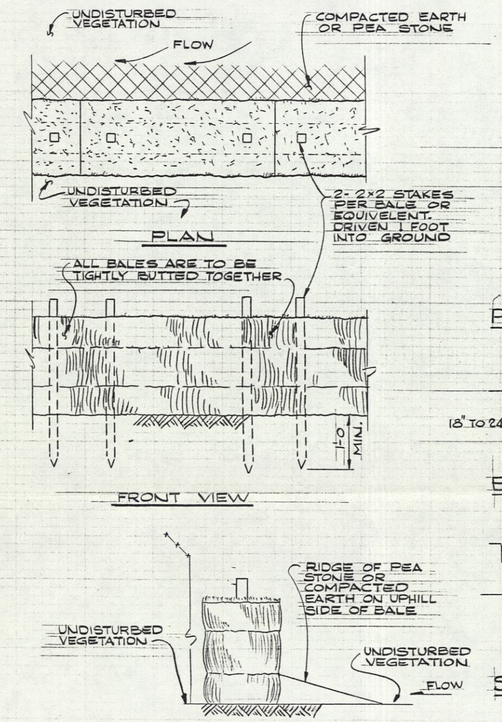
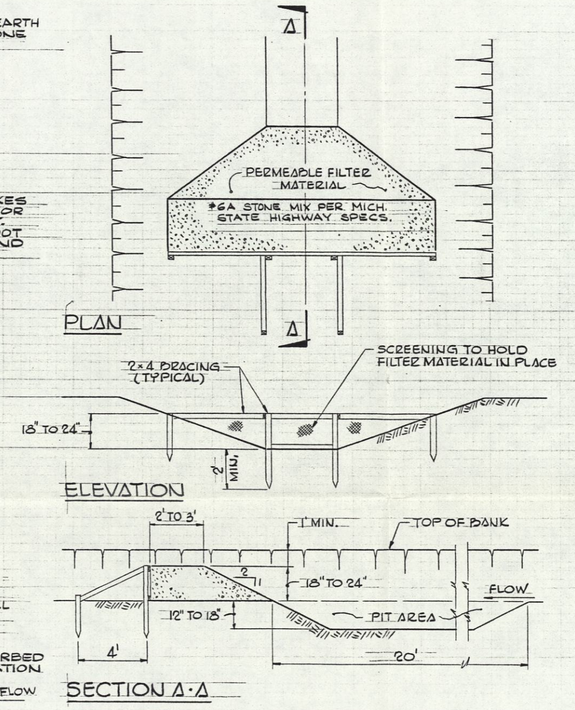
WORK SAFELY



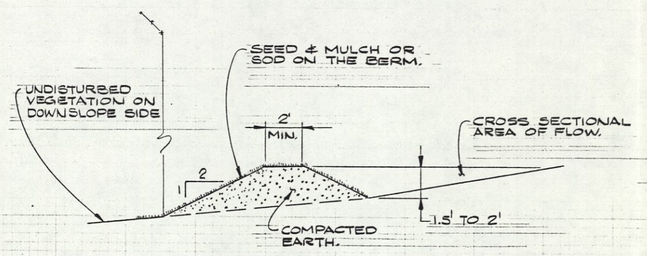
STONE OUTLET FILTER
(WITHIN A STRAW BALE BERM)



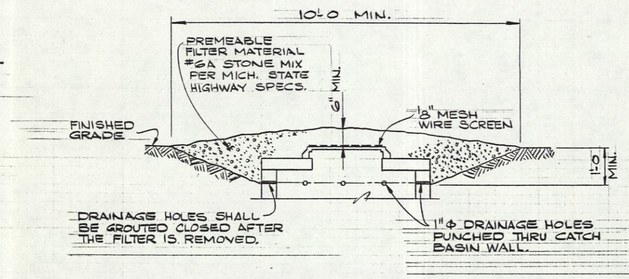
STRAW BALE DIVERSION BERM



DITCH SEDIMENT TRAP



EARTH DIVERSION BERM



CATCH BASIN INLET FILTER

NOTE:
FOR PLAN SEE DWG. 6097-15-1

REV. NO.	DATE	BY	CHKD	APV'D	APV'D	DESCRIPTION	APPR. NO.	JOB NO.	REFERENCE DRAWING	DWG. NO.
0	5/31/84	TM				ISSUED FOR CONSTRUCTION				
A	5/25/84	A P M			MGZ	ISSUED FOR SOIL EROSION & SEDIMENT CONTROL PERMITS				

DRAWN BY MALONEY
DATE 5.22.84
CHECKED BY ROSS
DATE 5/25/84

APPROVALS

MGR. CIVIL	MGZ	5/31/84
CIVIL ENGR.	F.T.R	5/31/84
PROJ. MGR.	MGZ	5/31/84

TITLE: RIVERVIEW SITE
SOIL EROSION & SEDIMENT CONTROL DETAILS

LOCATION: RIVERVIEW, MI.
CLASSIFICATION: SITE

BASF Wyandotte Corporation

APPR. NO. 6097
PROJ. NO. 89-10-093
JOB NO.
SCALE NONE

DRAWING NUMBER: 6097-15-2
REV. NO.: 0

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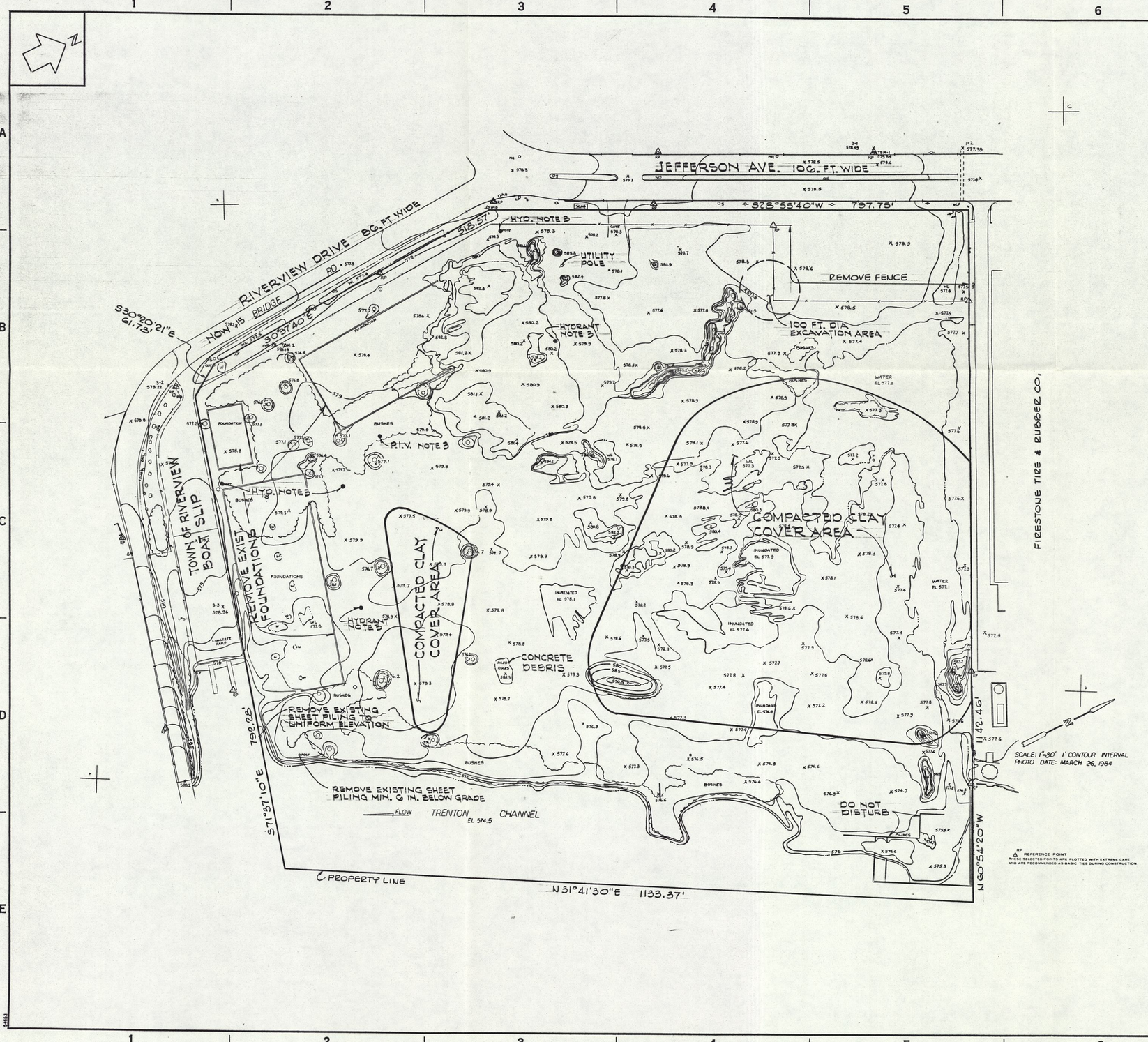
WORK SAFELY



NOTES:

1. Site shall be cleared of all trash, brush, trees, tree stumps, abandoned utility poles, fire hydrants, PIV's, sheet piling as noted, concrete debris, concrete foundations and grade walls, projecting reinforcing and other debris.
2. Existing concrete rip-rap at shoreline shall not be disturbed.
3. Remove fire hydrants and PIV's minimum 6" below final grade.
4. Remove concrete foundations, grade walls and reinforcing minimum 6" below final grade.
5. No burning will be allowed.
6. All cleared/demolished items within the compacted clay covered areas shall be buried under the clay cover. No materials shall be moved from areas to be covered with compacted clay to areas that are not to be covered with compacted clay.
7. All cleared/demolished items outside the compacted clay cover areas shall be removed from the site and properly disposed of, except for part of concrete debris which may be used for rip-rap in cove area, see specs.

REV. NO.	DATE	BY	CHKD	APV'D	APV'D	DESCRIPTION	APPR. NO.	JOB NO.	REFERENCE DRAWING	DWG. NO.
0	3/31/84	TM				ISSUED FOR CONSTRUCTION				
A	5-25-84	RJH			MR	ISSUED FOR SOIL EROSION & SEDIMENT CONTROL PERMITS				

DRAWN BY R. HOLM DATE 5-22-84
CHECKED BY ROSS DATE 5/25/84

APPROVALS		
MGR. CIVIL	MR	5/31/84
CIVIL ENGR	F.T.R.	5/31/84
PROJ. MGR	MR	5/31/84

TITLE: RIVERVIEW SITE
SITE CLEARING/DEMOLITION PLAN

LOCATION: RIVERVIEW, MI.
CLASSIFICATION: SITE

BASF Wyandotte Corporation

APPR. NO. 6097
PROJ. NO. 89-10-093
JOB NO.
SCALE 1" = 80'

DRAWING NUMBER: 6097-15-3
REV. NO.: 0

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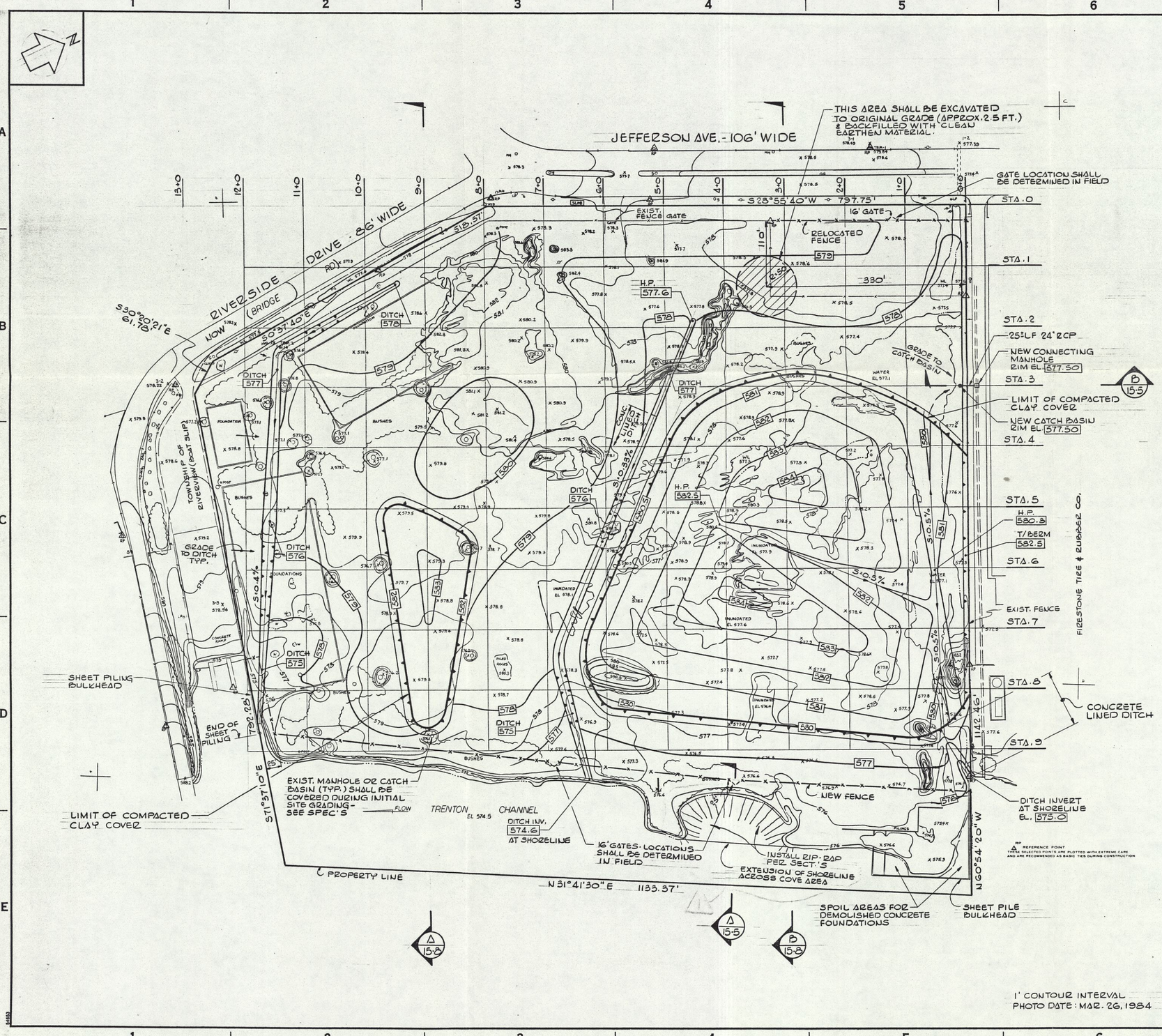
WORK SAFELY



GENERAL NOTES

1. Initial site grading operations shall be conducted in a manner to assure adequate drainage and to prevent the accumulation of standing water.
2. Finished grades shall slope uniformly to the drainage ditches, catch basin and Trenton Channel.
3. Excavation, except in the 100 ft. diameter area and ditches, shall not be cut below the prior existing grade on April 1, 1982 as depicted on Dwg. No. 6097-15-10.
4. Standing water shall be removed from the site in accordance with the specifications.
5. No materials shall be moved from areas to be covered with compacted clay to areas that are not to be covered with compacted clay.
6. Clay material shall be capable of achieving a permeability of 1×10^{-7} cm/sec.
7. Clay cover shall be compacted to a minimum total thickness of 24 inches.
8. Topsoil shall be minimum 6" thick on compacted clay cover areas and minimum 4" thick all other areas.

LIST OF REFERENCE DRAWINGS

15-1 SOIL EROSION & SEDIMENT CONTROL PLAN
15-2 SOIL EROSION & SEDIMENT CONTROL DETAILS
15-3 SITE CLEARING/DEMOLITION PLAN
15-4 SITE PLAN - FINISHED GRADING
15-5 SITE PLAN - SECTIONS & DETAILS
15-6 CROSS SECTIONS - STA. 1 TO STA. 4
15-7 CROSS SECTIONS - STA. 5 TO STA. 8
15-8 CROSS SECTIONS - STA. 9 & SECTION A & B

REFERENCE DRAWINGS - (FOR INFORMATION ONLY)

15-10 TOPOGRAPHIC SURVEY PLAN - APRIL 1, 1982
15-11 TOPOGRAPHIC SURVEY PLAN - MARCH 26, 1984
15-12 DETAILS OF FOUNDATIONS - WAREHOUSE "A" & GARAGE
15-13 DETAILS OF FOUNDATIONS - WAREHOUSE "B"

LIST OF BWC TECHNICAL STANDARDS

30-207-10 CHAIN LINK FENCING
12-130-UT4 CONCRETE SEWER PIPE
99-201-01 GENERAL CONDITIONS FOR CONSTRUCTION SERVICES

LEGEND

- LIMIT OF 24" THICK COMPACTED CLAY COVER AREAS
- 582 — FINISH GRADE ELEVATION CONTOUR
- x 578.2 — EXISTING GRADE POINT ELEVATION
- 580 — EXISTING GRADE ELEVATION CONTOUR

REV. NO.	DATE	BY	CHKD	APV'D	APV'D	DESCRIPTION	APPR. NO.	JOB NO.	REFERENCE DRAWING	DWG. NO.
1	7/26/84	TM	MR	MR		REVISED COVE RIP-RAP				
0	5/31/84	TM				ISSUED FOR CONSTRUCTION				
Δ	5/25/84	TM			MR	ISSUED FOR SOIL EROSION & SEDIMENT CONTROL PERMITS				

DRAWN BY: MALONEY
DATE: 5-19-84
CHECKED BY: ROSS
DATE: 5/25/84

APPROVALS: MGR. CIVIL MR 5/31/84; CIVIL ENGR. F.T.R. 5/31/84; PROJ. MGR. MR 5/31/84

TITLE: RIVERVIEW SITE
SITE PLAN-FINISHED GRADING

LOCATION: RIVERVIEW, MI.
CLASSIFICATION: SITE

BASF Wyandotte Corporation

APPR. NO. 6097
PROJ. NO. 89-10-093
JOB NO.
SCALE 1" = 80'

DRAWING NUMBER: 6097-15-4
REV. NO. 1

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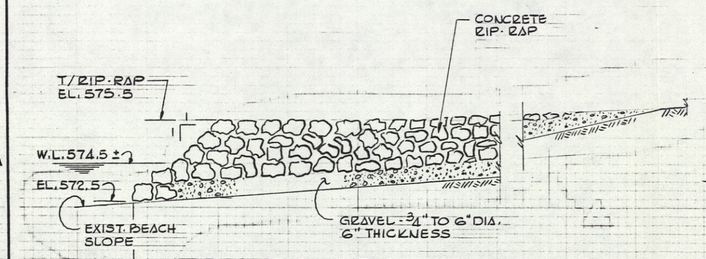
WORK SAFELY

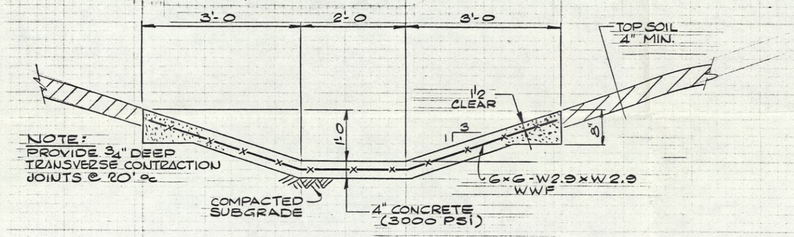


COVE STABILIZATION DET.

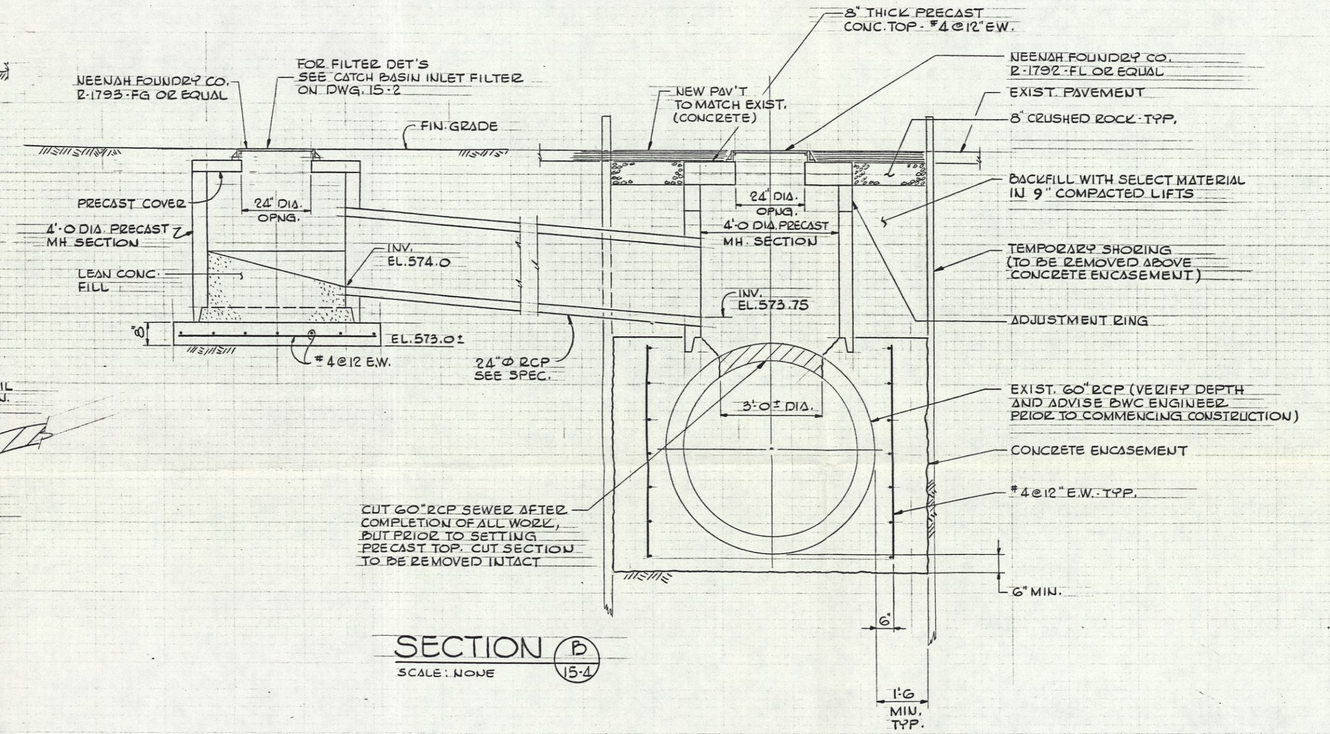
SECTION Δ 15-4

SCALE: NONE

EXTEND RIP-RAP TO EXISTING BEACH ELEVATION SHOWN OR TO EXTENDED SHORELINE AT COVE, SHOWN ON DWG. 15-4, WHICHEVER IS LESS

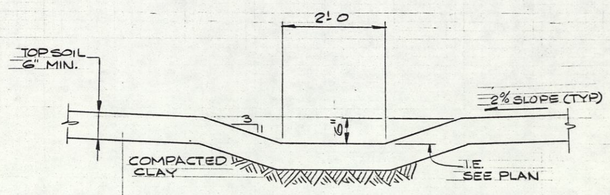


CONCRETE LINED DITCH

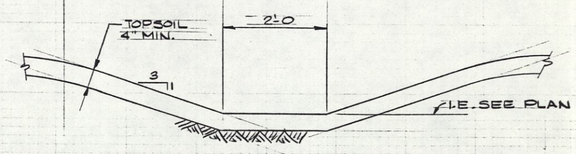


SECTION B 15-4

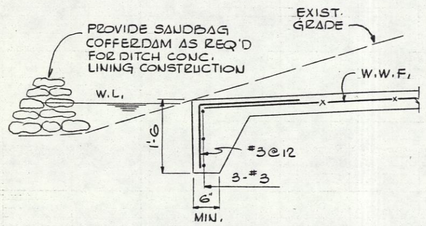
SCALE: NONE



DRAINAGE DITCH IN COMPACTED CLAY COVER



TYPICAL UNLINED DITCH



CONCRETE PAVED DITCH END SECTION AT SHORELINE

Note

For General Notes, List of Reference Drawings & List of Technical Standards, see Drawing 6097-15-4.

REV. NO.	DATE	BY	CHK'D	APV'D	APV'D	DESCRIPTION	APPR. NO.	JOB NO.	REFERENCE DRAWING	DWG. NO.
1	7/5/84	TM	MLE	MLE		REVISED SECT. Δ				
0	5/31/84	TM				ISSUED FOR CONSTRUCTION				
A	—	APM			MLE	ISSUED FOR SOIL EROSION & SEDIMENT CONTROL PERMITS				

DRAWN BY MALONEY
DATE 5-23-84
CHECKED BY ROSS
DATE 5/25/84

APPROVALS

MGR. CIVIL	MLE	5/31/84
CIVIL ENGR.	FTR	5/31/84
PROJ. MGR.	MLE	5/31/84

TITLE: RIVERVIEW SITE
SITE PLAN SECT'S & DET'S

LOCATION: RIVERVIEW, MI.
CLASSIFICATION: SITE

BASF Wyandotte Corporation

APPR. NO. 6097
PROJ. NO. 89-10-093
JOB NO.
SCALE AS NOTED

DRAWING NUMBER: 6097-15-5
REV. NO. 1

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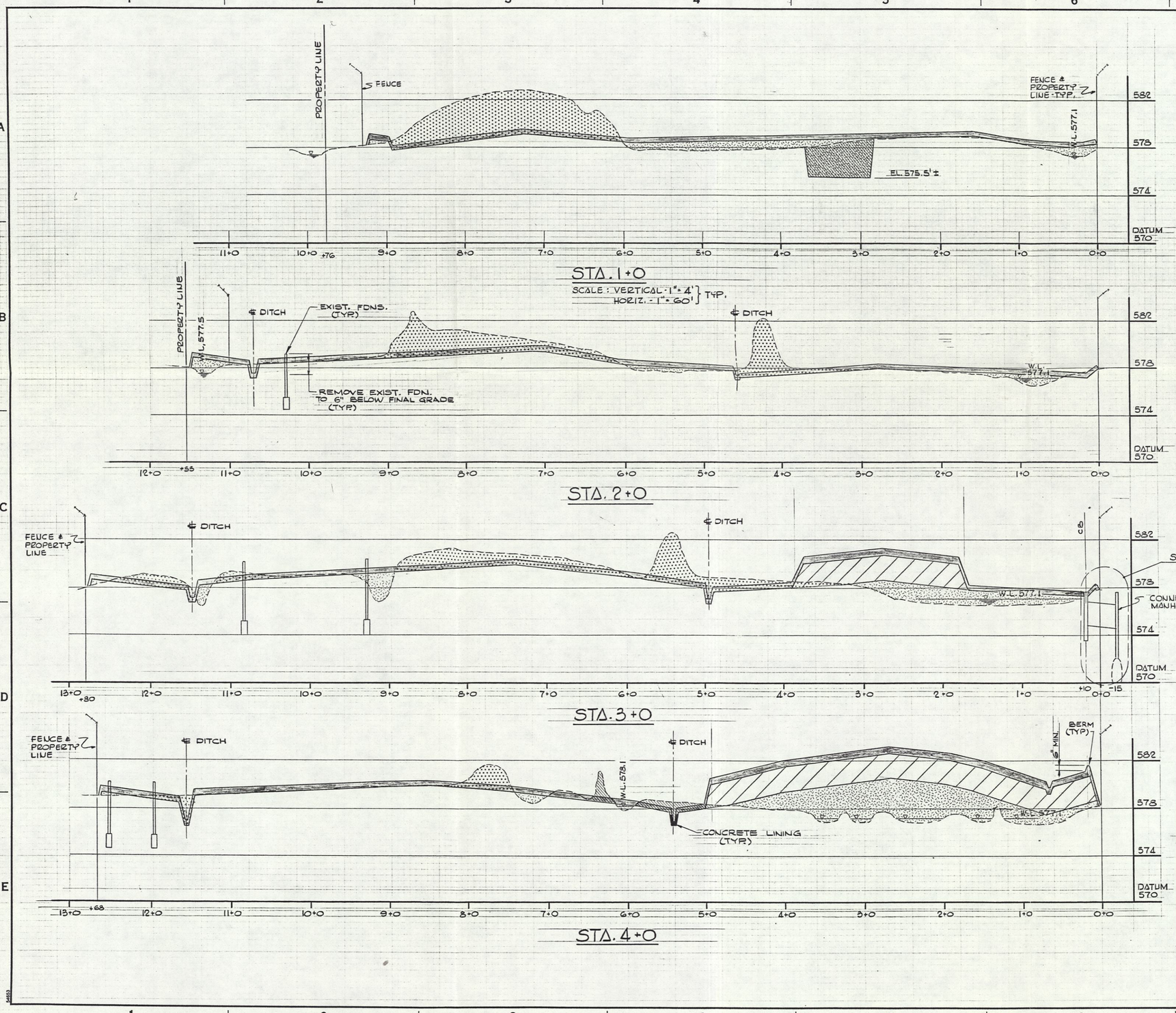
WORK SAFELY



LEGEND

- REPRESENTS MATERIAL TO BE EXCAVATED AND PLACED BELOW THE COMPACTED CLAY COVER.
- REPRESENTS SUITABLE MATERIAL ABOVE ELEV. 578 FOR REGRADING AREAS BEYOND THE COMPACTED CLAY COVER.
- REPRESENTS FILL, EITHER ON-SITE SUITABLE MATERIAL OR OFF-SITE BORROW. TOP OF THIS FILL SHALL BE A MINIMUM OF 2'-6" BELOW FINISHED GRADE WHEN WITHIN THE COMPACTED CLAY COVER AREA.
- REPRESENTS COMPACTED CLAY COVER. MINIMUM THICKNESS SHALL BE 2'-0".
- REPRESENTS TOP SOIL. 6" THICK OVER COMPACTED CLAY COVER, 4" THICK ELSEWHERE.

Note

For General Notes, List of Reference Drawings & List of Technical Standards, see Drawing 6097-15-4.

REV. NO.	DATE	BY	CHK'D	APV'D	APV'D	DESCRIPTION	APPR. NO.	JOB NO.	REFERENCE DRAWING	DWG. NO.
0	5/31/84	TM				ISSUED FOR CONSTRUCTION				
A	5/25/84	TM/APM			MJE	ISSUED FOR SOIL EROSION & SEDIMENT CONTROL PERMITS				

DRAWN BY TM/APM DATE 5-21-84
CHECKED BY ROSS DATE 5/25/84

APPROVALS

MGR. CIVIL	MJE	5/31/84
CIVIL ENGR.	FTR	5/31/84
PROJ. MGR.	MJE	5/31/84

TITLE: RIVERVIEW SITE
CROSS SECTIONS - STA. 1 to STA. 4

LOCATION: RIVERVIEW, MI.
CLASSIFICATION: SITE

APPR. NO. 6097
PROJ. NO. 89-10-093
JOB NO.
SCALE AS NOTED

DRAWING NUMBER: 6097-15-6
REV. NO. 0

BASF Wyandotte Corporation

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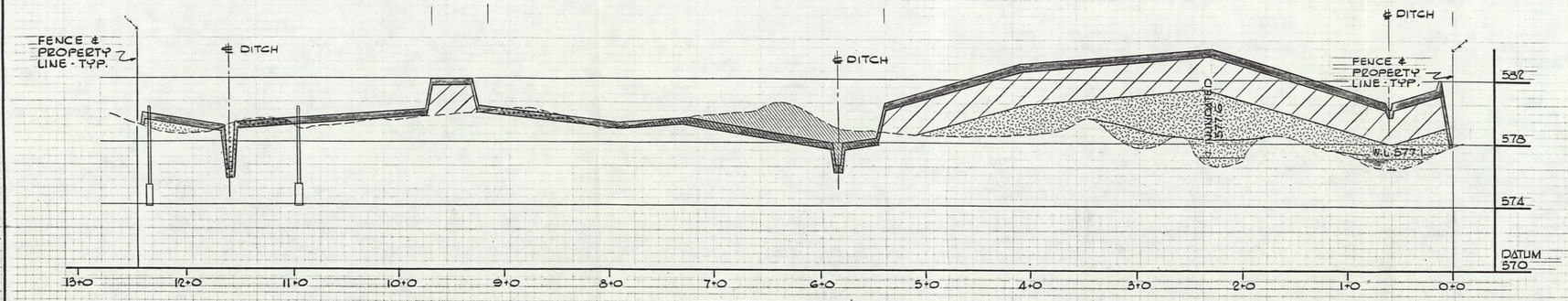
WORK SAFELY

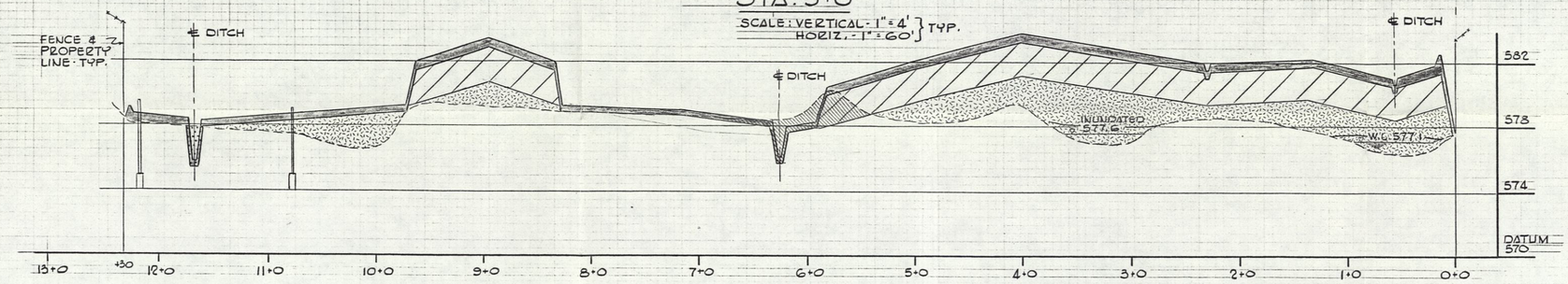
NOTES:

FOR EARTHWORK LEGEND SEE DWG. No. 6097-15-5.

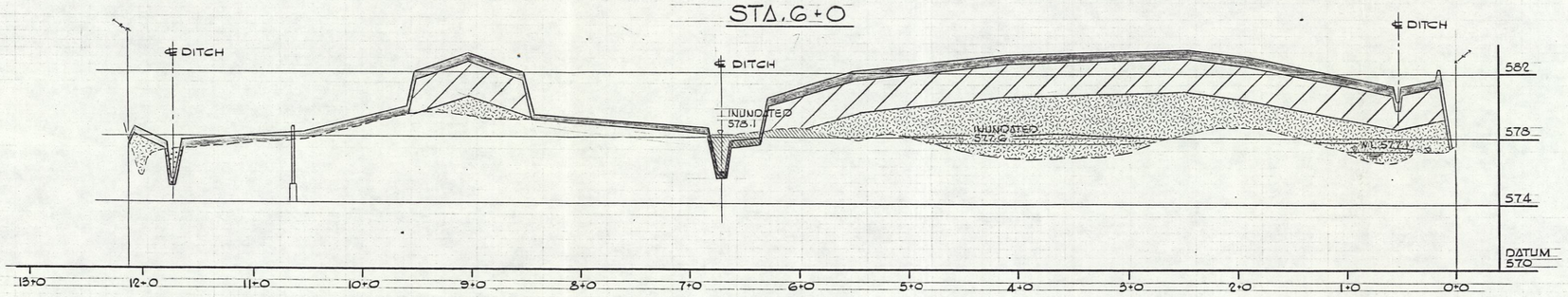


STA. 5+0

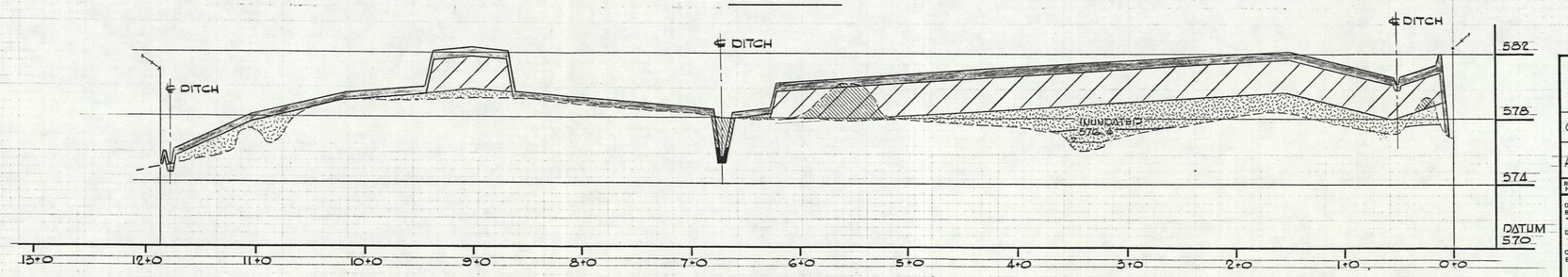
SCALE: VERTICAL - 1" = 4' } TYP.
HORIZ. - 1" = 60'



STA. 6+0



STA. 7+0



STA. 8+0

Note

For General Notes, List of Reference Drawings & List of Technical Standards, see Drawing 6097-15-4.

REV. NO.	DATE	BY	CHKD	APV'D	APV'D	DESCRIPTION	APPR. NO.	JOB NO.	REFERENCE DRAWING	DWG. NO.
O	5/31/84	TM				ISSUED FOR CONSTRUCTION				
A	5/25/84	APM			MLE	ISSUED FOR SOIL EROSION & SEDIMENT CONTROL PERMITS				

DRAWN BY TM/APM
DATE 5-21-84
CHECKED BY ROSS
DATE 5/25/84

APPROVALS

MGR. CIVIL	MLE	5/31/84	
CIVIL ENGR.	FTR	5/31/84	
PROJ. MGR.	MLE	5/31/84	

TITLE: RIVERVIEW SITE
CROSS SECTIONS - STA. 5 to STA. 8

LOCATION: RIVERVIEW, MI.
CLASSIFICATION: SITE

APPR. NO. 6097
PROJ. NO. 89-10-093
JOB NO.
SCALE AS NOTED

DRAWING NUMBER: 6097-15-7
REV. NO.: O

BASF Wyandotte Corporation

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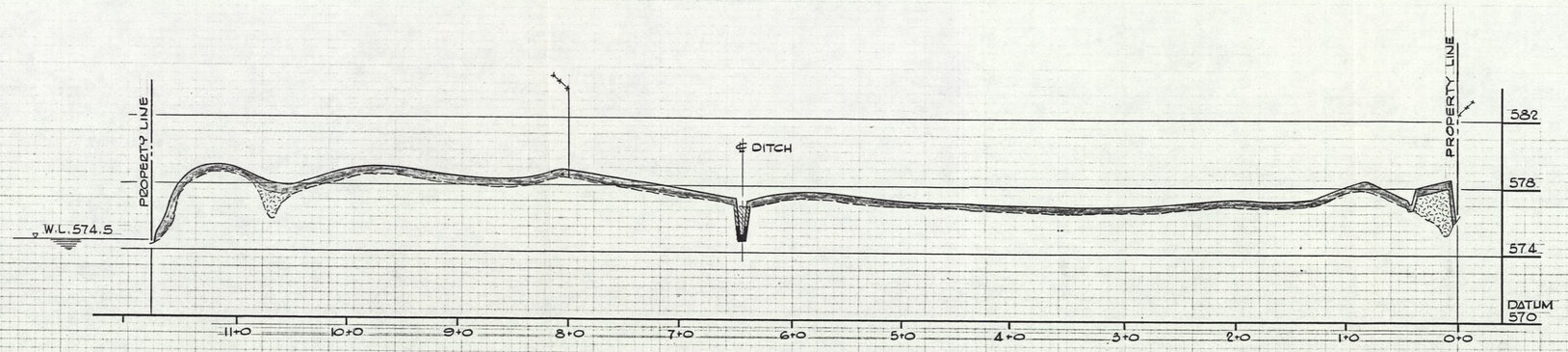
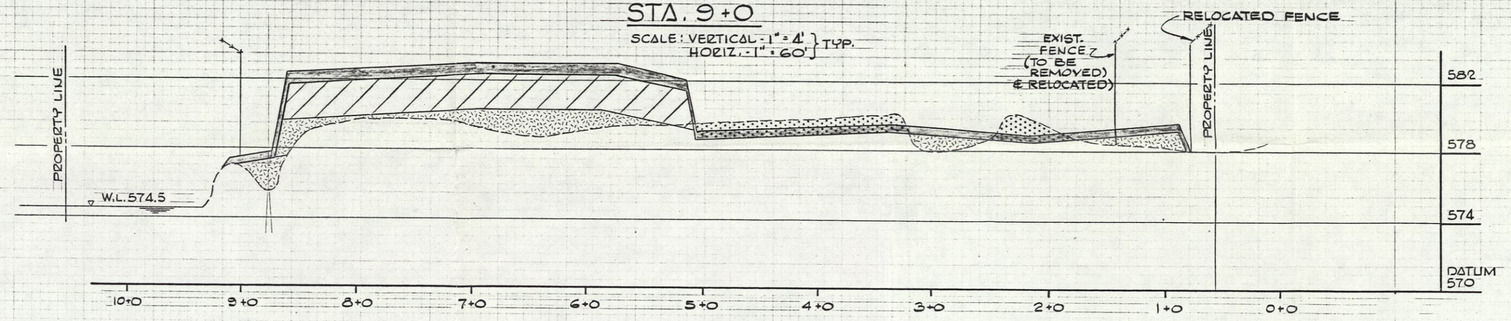
WORK SAFELY

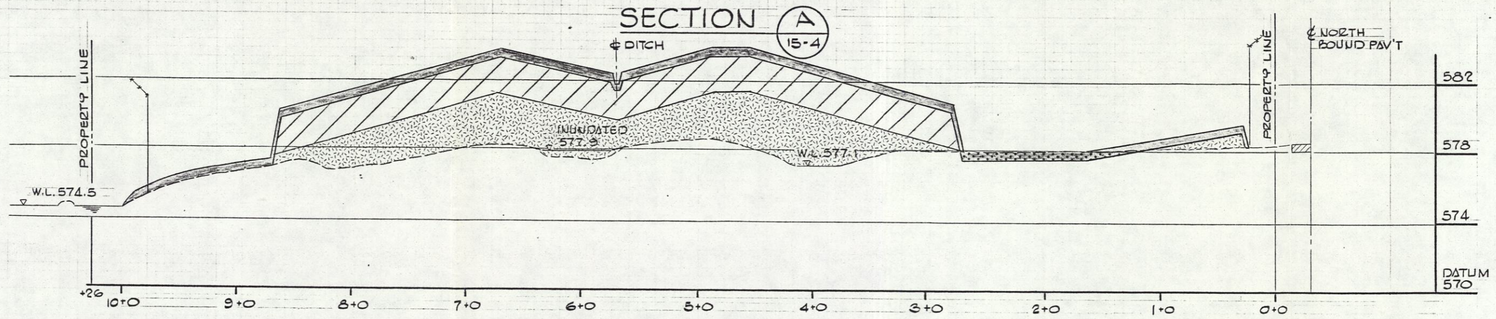


STA. 9+0

SCALE: VERTICAL: 1" = 4' } TYP.
HORIZ.: 1" = 60' }



SECTION A
15-4



SECTION B
15-4

NOTES:

FOR EARTHWORK LEGEND SEE DWG. No 6097-15-5

Note

For General Notes, List of Reference Drawings & List of Technical Standards, see Drawing 6097-15-4.

REV. NO.	DATE	BY	CHK'D	APV'D	APV'D	DESCRIPTION	APPR. NO.	JOB NO.	REFERENCE DRAWING	DWG. NO.
0	5/31/84	TM				ISSUED FOR CONSTRUCTION				
A	5/15/84	APM			MGR	ISSUED FOR SOIL EROSION & SEDIMENT CONTROL PERMITS				

DRAWN BY TM/APM
DATE 5-22-84
CHECKED BY 2055
DATE 5/25/84

APPROVALS

MGR. CIVIL	MGR	5/31/84
CIVIL ENGR.	PTR	5/31/84
PROJ. MGR.	MGR	5/31/84

TITLE: RIVERVIEW SITE
CROSS SECTIONS
STA. 9 & SECTIONS A & B

LOCATION: RIVERVIEW, MI.

CLASSIFICATION: SITE

BASF Wyandotte Corporation

APPR. NO. 6097
PROJ. NO. 89-10-095
JOB NO.
SCALE AS NOTED

DRAWING NUMBER: 6097-15-8
REV. NO. 0

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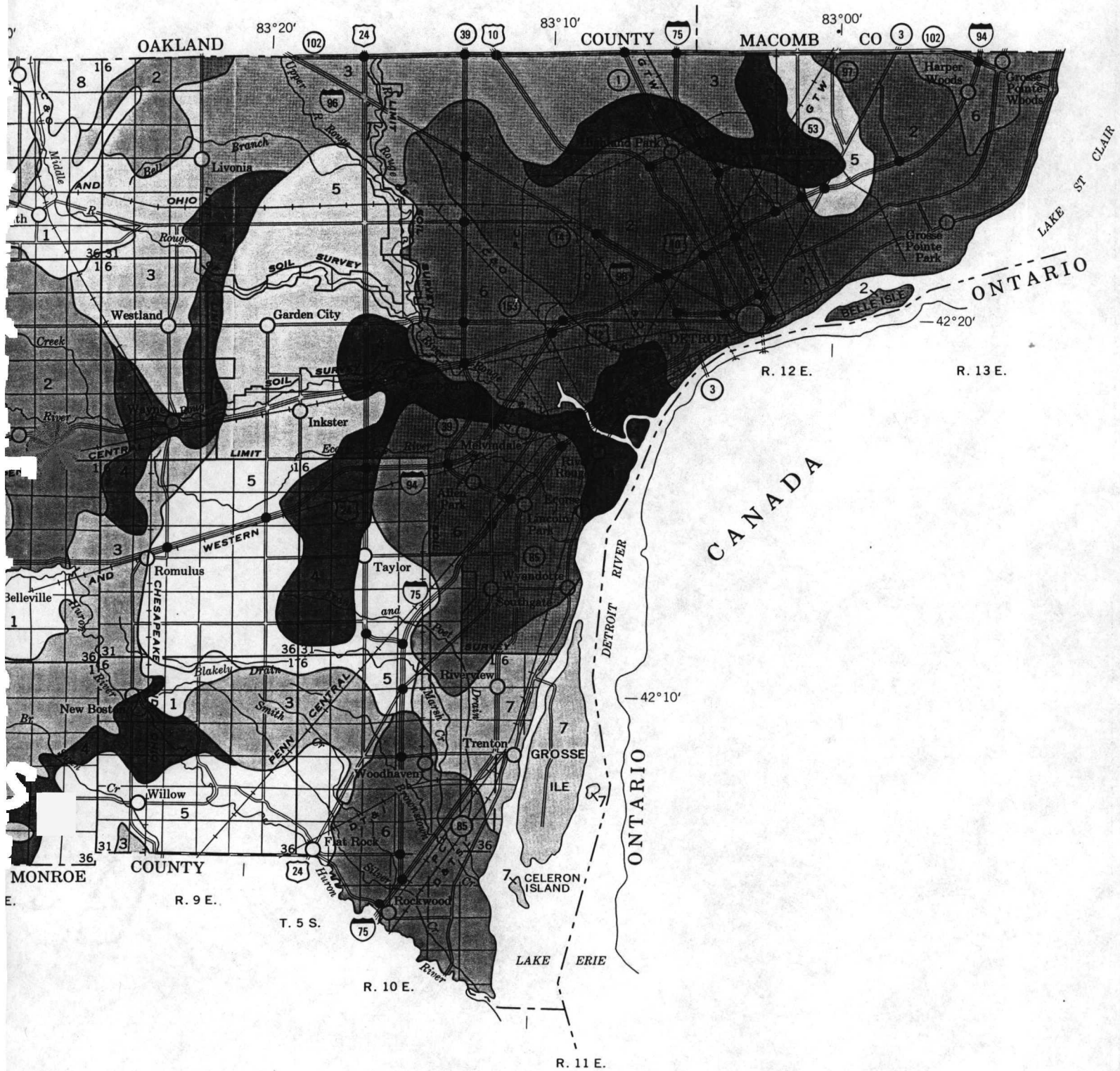
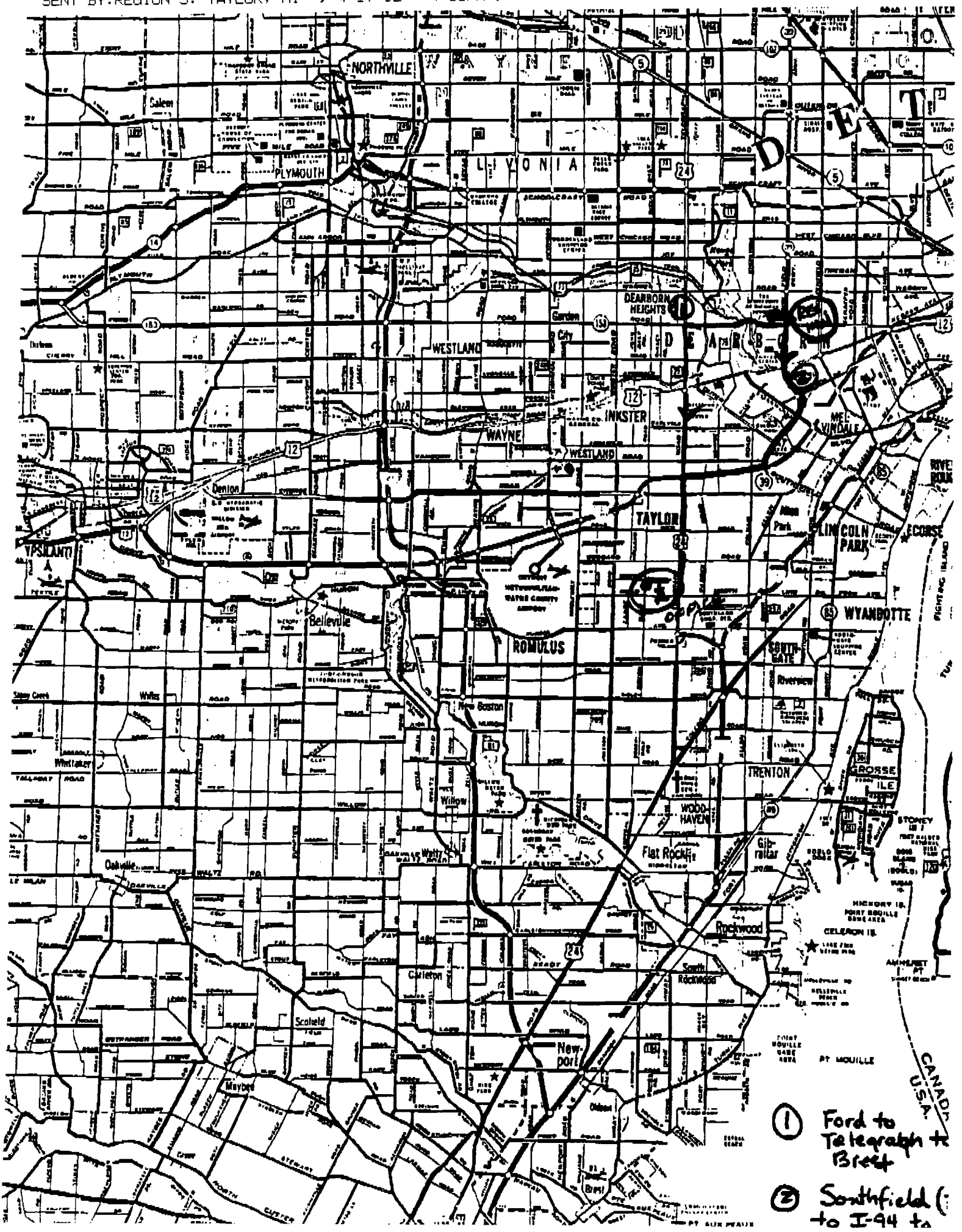
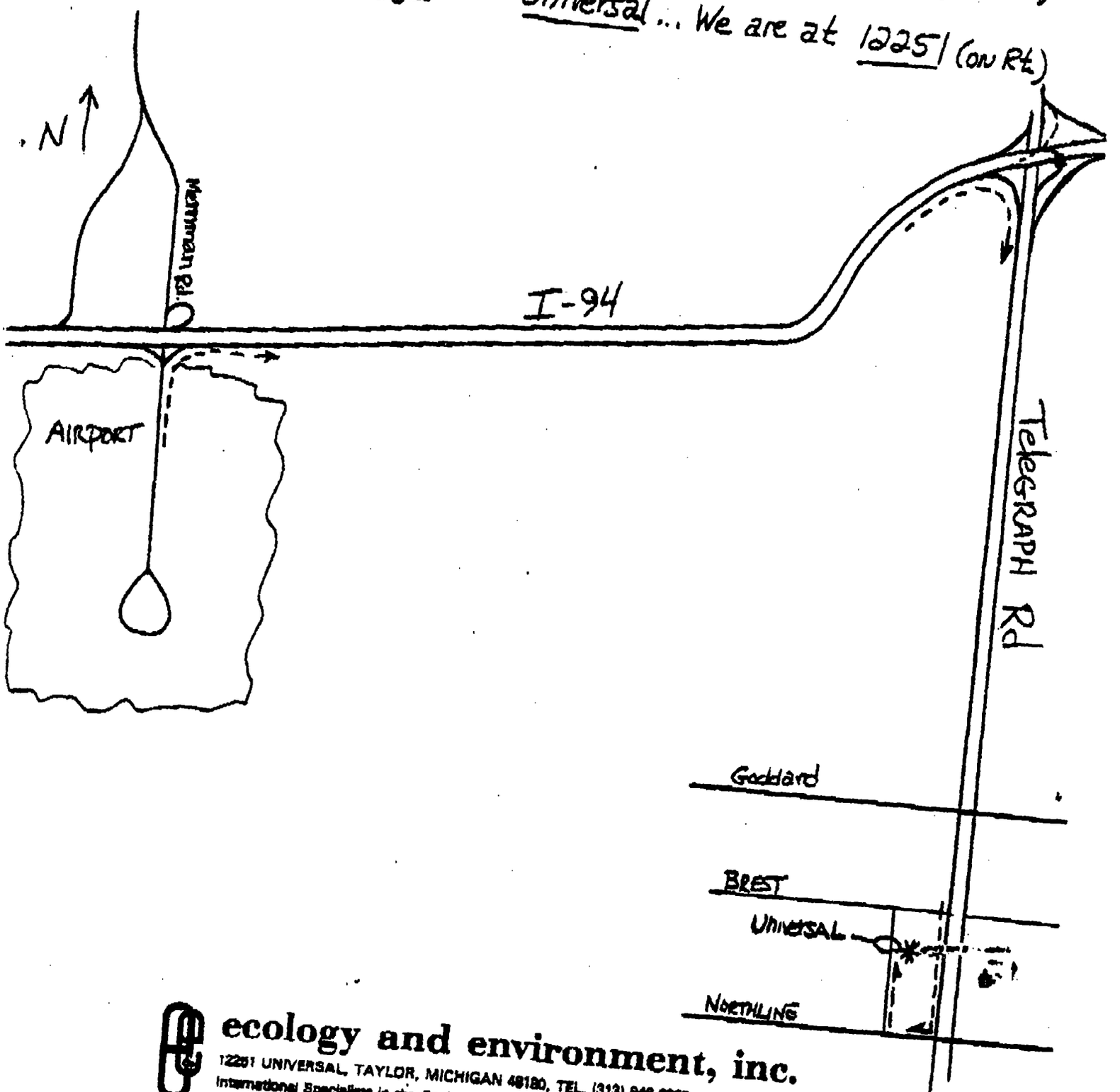
WORK SAFELY



Soil associations in the shaded area, which is within the Detroit metropolitan area, were delineated not on the basis of information shown on the detailed map sheets, but on the basis of information shown on geologic maps, old soil maps, and recent soil maps of parks and other small open areas.


NORTHVILLE
WAYNE
DETROIT
LIVONIA
PLYMOUTH
Canton
DEARBORN HEIGHTS
Garden City
WESTLAND
INKSTER
MELVINDALE
WAYNE
WESTLAND
Denton
TAYLOR
LINCOLN PARK
ECORSE
YPSILANTI
Belleville
ROMULUS
WYANDOTTE
SOUTH-GATE
Riverview
New Boston
Whitmore
TRENTON
GROSSE ILE
Willow
WOOD-HAVEN
Flat Rock
Gibraltar
Oakville
Rockwood
South Rockwood
Carleton
Scofield
Newport
Maybee
Brest
PT MOUILLE
CANADA
U.S.A.
① Ford to Telegraph to Brest
② Southfield (
to I-94 to

TAKE I-94 East from Airport.
Exit at Telegraph Rd South.
Continue South on Telegraph to NORTHLINE Rd. ... Turn Right (west)
The 1ST Road on the right is Universal ... We are at 12251 (on Rt)



ecology and environment, inc.
12251 UNIVERSAL, TAYLOR, MICHIGAN 48180, TEL. (313) 946-0900
International Specialists in the Environment

recycled paper

SCALE 1"=50' 1' CONTOUR INTERVAL

DATE OF PHOTOGRAPHY APRIL 1, 1982

—577— EXISTING GRADE

577 FINAL GRADE

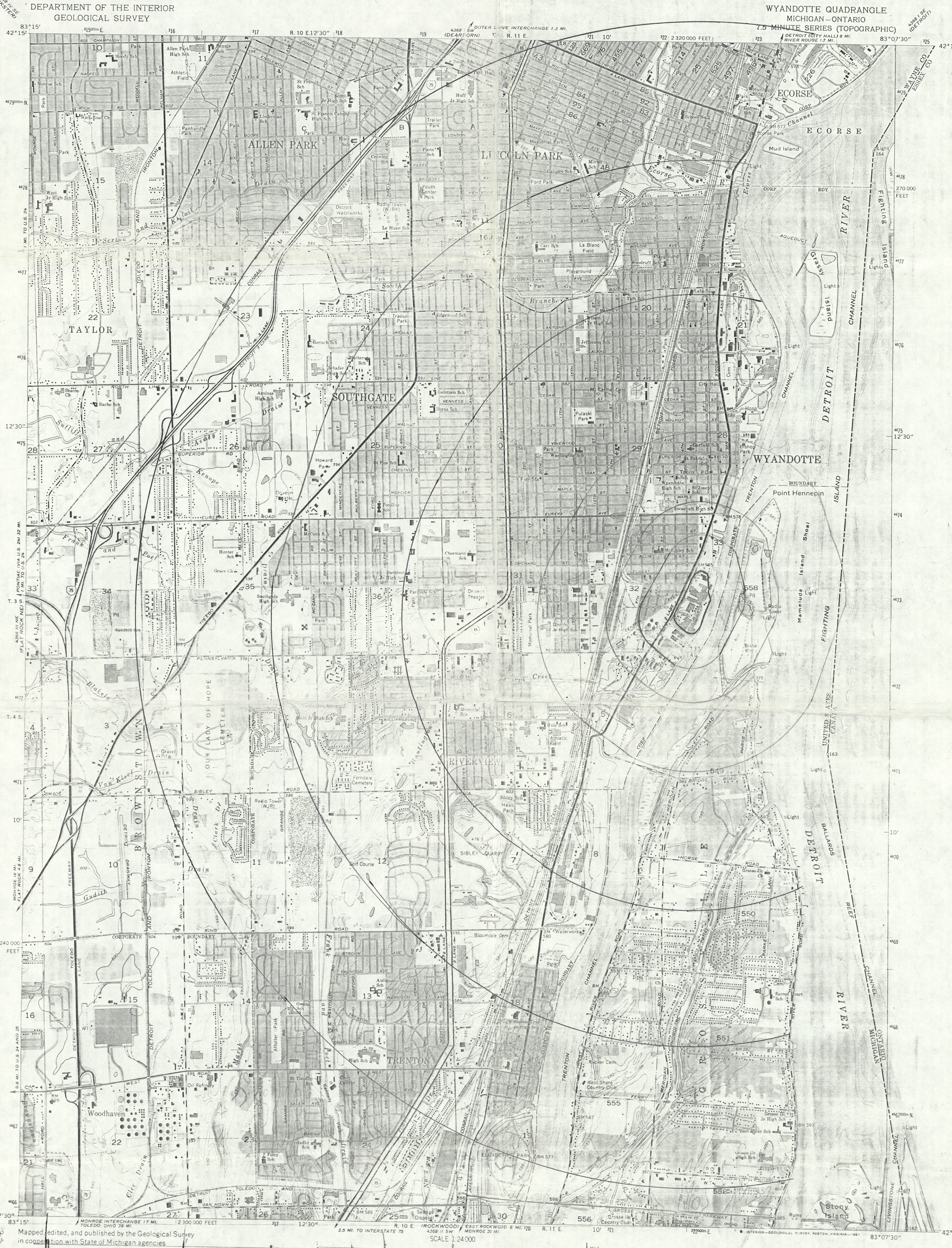
RP REFERENCE POINT
THESE SELECTED POINTS ARE PLOTTED WITH EXTREME CARE AND ARE RECOMMENDED AS BASIC TIES DURING CONSTRUCTION

FIGURE 1

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WYANDOTTE QUADRANGLE
MICHIGAN–ONTARIO
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey in cooperation with State of Michigan agencies

Control by USGS, USC&GS, USCE, and Wayne County Highway Commission

Planimetry by photogrammetric methods from aerial photographs
Topography by planetable surveys 1940. Revised from aerial photographs taken 1966. Field checked 1967

Selected hydrographic data compiled from U. S. Lake Survey Charts 41 and 412 (1966). This information is not intended for navigational purposes

Polyconic projection. 1927 North American datum
10,000-foot grid based on Michigan coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue
Red tint indicates areas in which only landmark buildings are shown

MN GN
5° 89 MILS
1°28' 26 MILS
UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

To place on the predicted North American Datum 1983 move the projection lines 7 meters west as shown by dashed corner ticks

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS RIVER SURFACE AT FOLLOWING STAGES: LAKE ST. CLAIR 571.7 AND LAKE ERIE 568.6

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND BY THE GEOLOGICAL SURVEY DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES, LANSING, MICHIGAN 48909
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MICHIGAN
QUADRANGLE LOCATION

Revisions shown in purple compiled from aerial photographs taken 1973 and 1981. Map edited 1981
This information not field checked

Purple tint indicates extension of urban area

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
Interstate Route — U. S. Route — State Route

WYANDOTTE, MICH.–ONT.
N4207.5—W8307.5/7.5

1967
PHOTOREVISED 1981
DMA 4368 II NW—SERIES V862

SCALE 1"=50' 1' CONTOUR INTERVAL

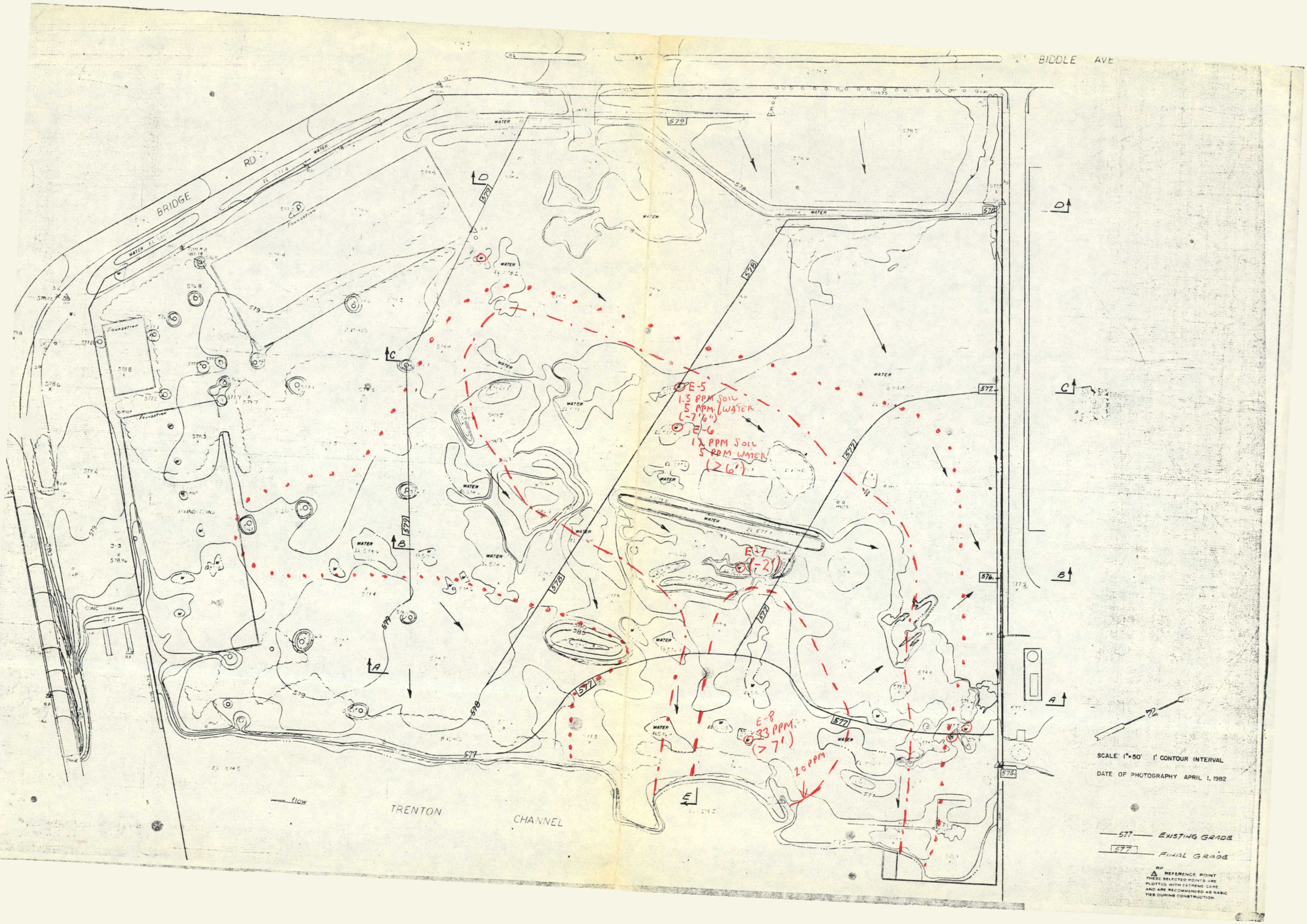
DATE OF PHOTOGRAPHY APRIL 1, 1982

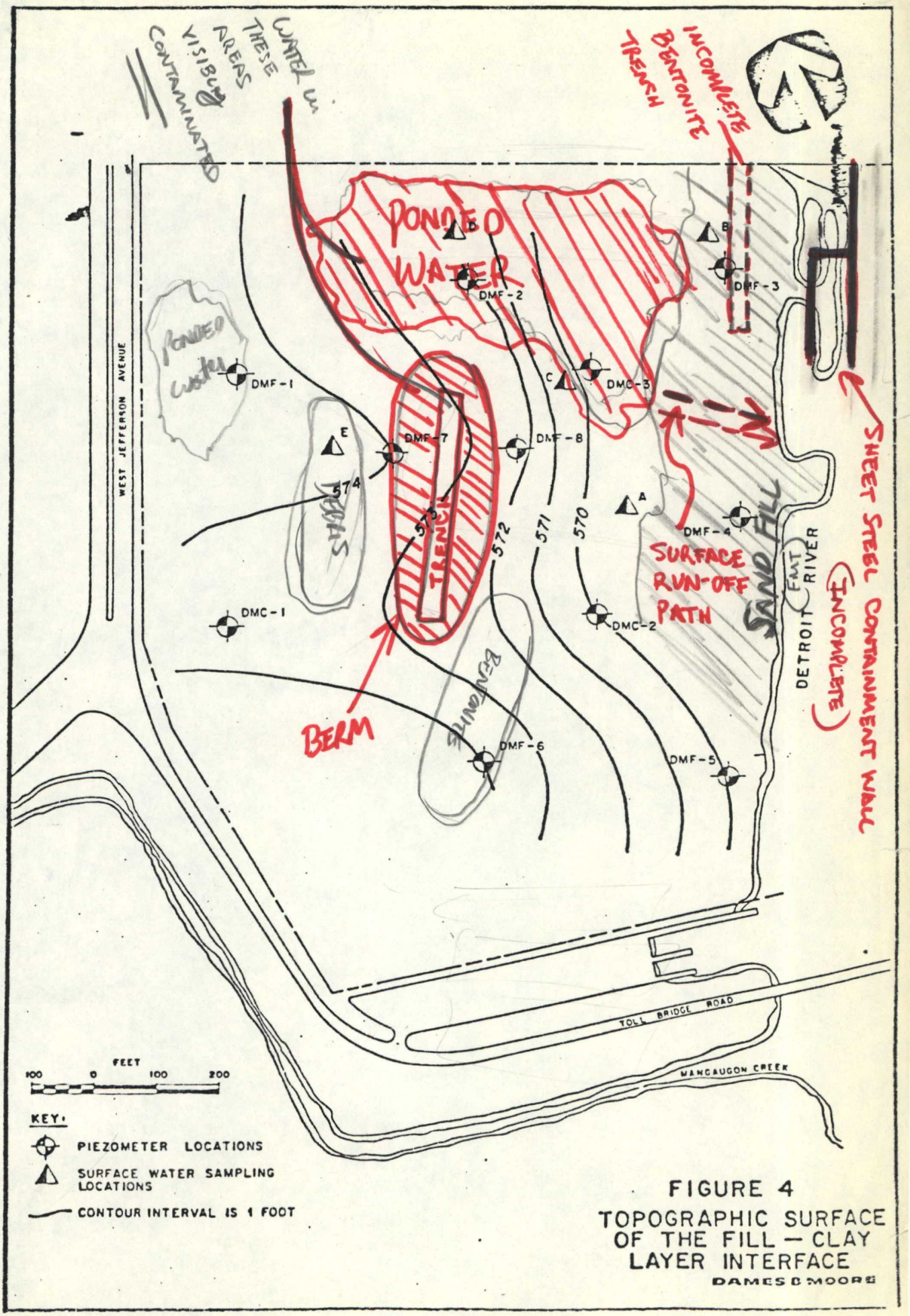
577 EXISTING GRADE

577 FINAL GRADE

RP REFERENCE POINT
THESE SELECTED POINTS ARE PLOTTED WITH EXTREME CARE AND ARE RECOMMENDED AS BASIC TIES DURING CONSTRUCTION.

FIGURE 1


BIDDLE AVE
BRIDGE RD
WATER
FOUNDATION
E-5
1.5 PPM SOIL
5 PPM WATER
(-7'6")
E-6
1 PPM SOIL
5 PPM WATER
(>6')
E-7
(-2')
E-8
33 PPM
(>7')
20 PPM
CONC RAMP
flow
TRENTON CHANNEL
SCALE 1"=50' 1' CONTOUR INTERVAL
DATE OF PHOTOGRAPHY APRIL 1, 1982
577 EXISTING GRADE
577 FINAL GRADE
RP REFERENCE POINT
THESE SELECTED POINTS ARE PLOTTED WITH EXTREME CARE AND ARE RECOMMENDED AS BASIC TIES DURING CONSTRUCTION.

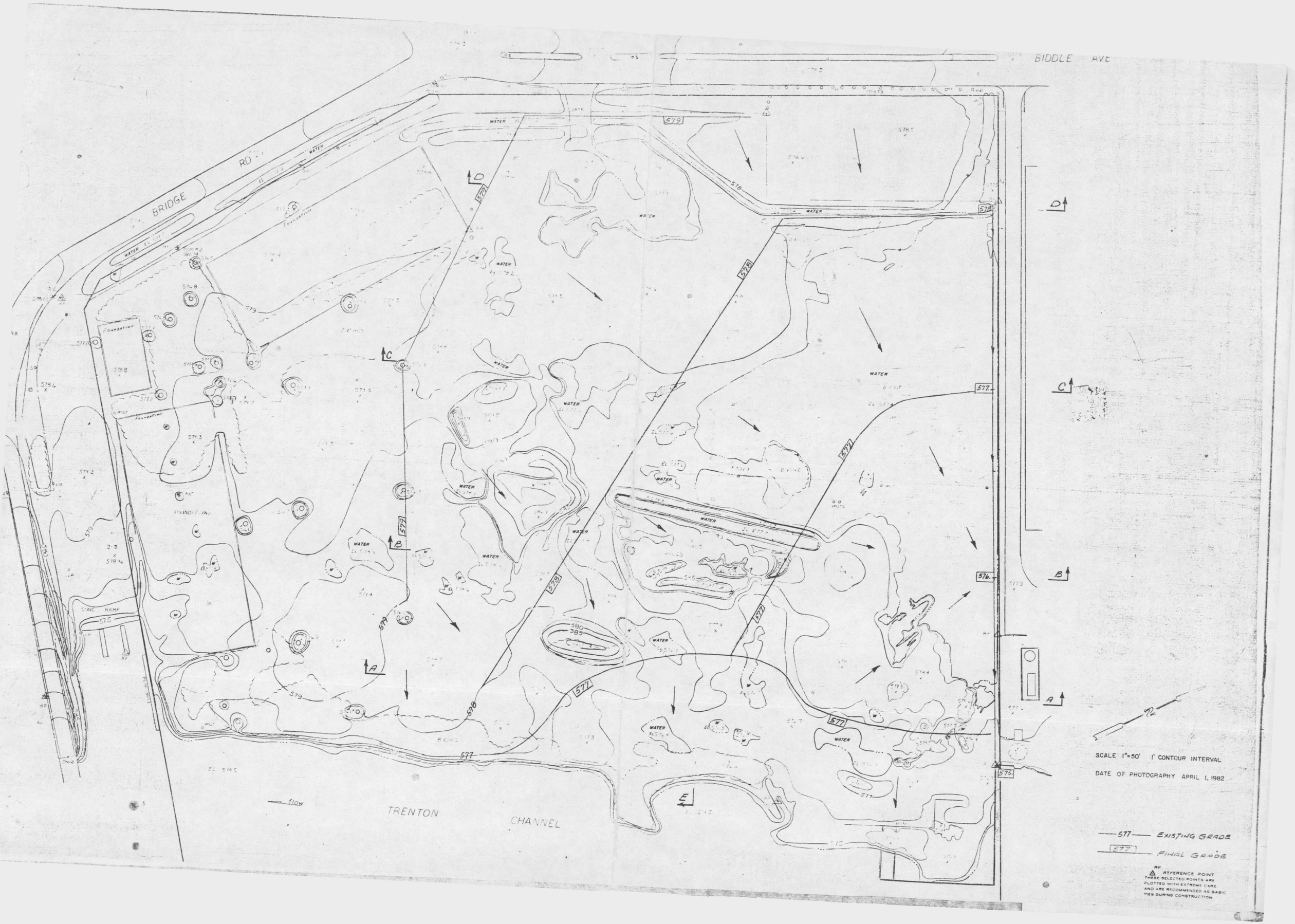


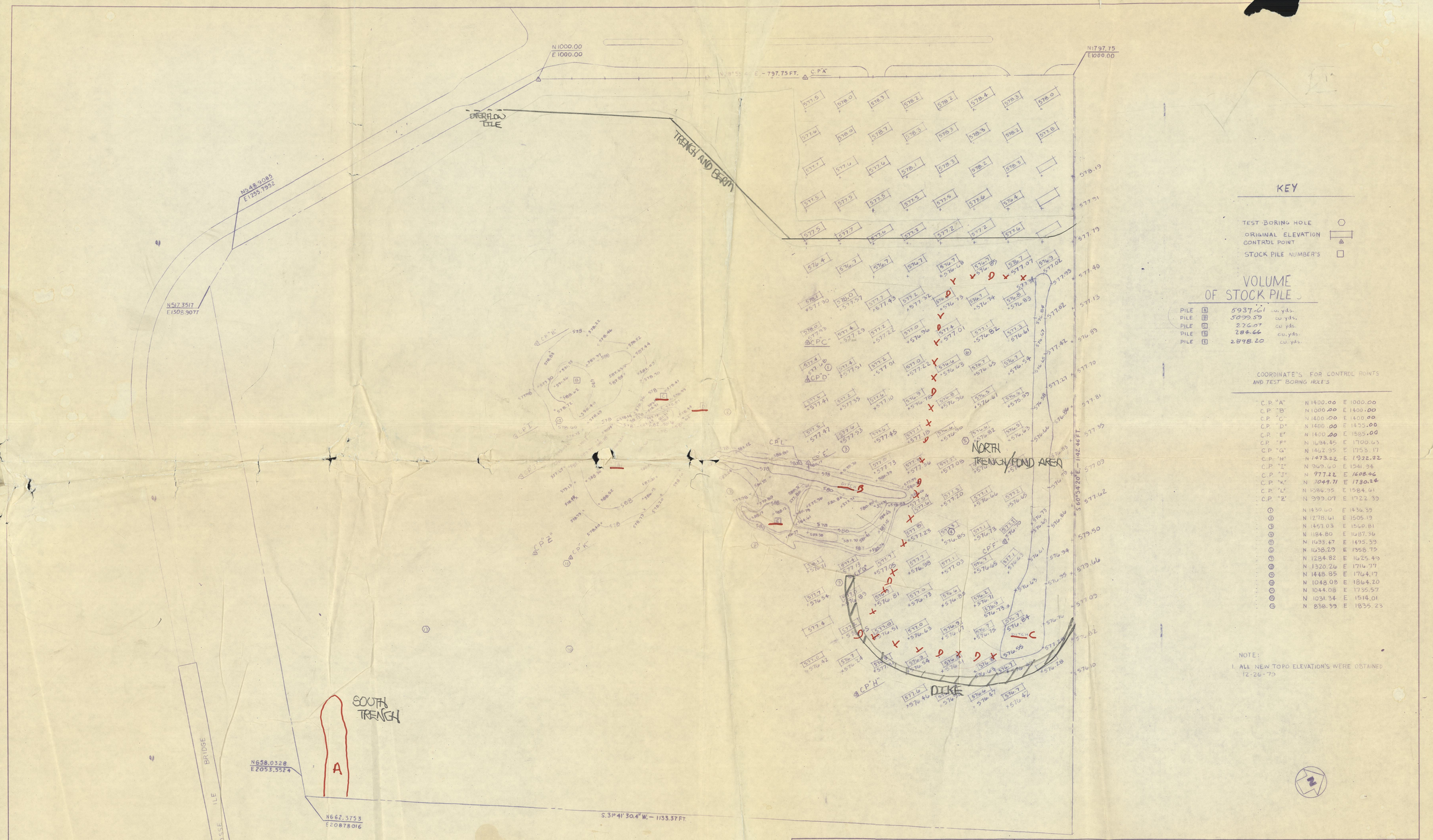
7145-033-07

FIGURE 4

TOPOGRAPHIC SURFACE OF THE FILL — CLAY LAYER INTERFACE

DAMES & MOORE


BIDDLE AVE
BRIDGE RD
WATER
FOUNDATION
EXCAVATION
CONC RAMP
TRENTON CHANNEL
flow
SCALE 1"=50' 1' CONTOUR INTERVAL
DATE OF PHOTOGRAPHY APRIL 1, 1982
577 EXISTING GRADE
577 FINAL GRADE
RP REFERENCE POINT
THESE SELECTED POINTS ARE PLOTTED WITH EXTREME CARE AND ARE RECOMMENDED AS BASIC TIES DURING CONSTRUCTION



KEY

TEST BORING HOLE ○

ORIGINAL ELEVATION CONTROL POINT ▭ △

STOCK PILE NUMBER'S □

VOLUME OF STOCK PILE

PILE	A	5937.61	cu. yds.
PILE	B	5099.59	cu. yds.
PILE	C	226.07	cu. yds.
PILE	D	284.66	cu. yds.
PILE	E	2898.20	cu. yds.

COORDINATE'S FOR CONTROL POINTS AND TEST BORING HOLE'S

C.P. "A"	N 1000.00	E 1000.00
C.P. "B"	N 1000.00	E 1400.00
C.P. "C"	N 1400.00	E 1400.00
C.P. "D"	N 1400.00	E 1455.00
C.P. "E"	N 1400.00	E 1585.00
C.P. "F"	N 1684.45	E 1700.63
C.P. "G"	N 1462.35	E 1753.17
C.P. "H"	N 1473.22	E 1932.22
C.P. "I"	N 969.60	E 1541.94
C.P. "J"	N 977.22	E 1608.46
C.P. "K"	N 1044.71	E 1730.24
C.P. "L"	N 1586.35	E 1584.61
C.P. "Z"	N 999.07	E 1722.39
1	N 1430.60	E 1436.39
2	N 1278.61	E 1505.19
3	N 1457.03	E 1560.81
4	N 1184.80	E 1687.36
5	N 1633.47	E 1495.39
6	N 1638.29	E 1358.79
7	N 1284.82	E 1625.49
8	N 1320.26	E 1716.77
9	N 1448.85	E 1764.17
10	N 1048.08	E 1864.20
11	N 1044.08	E 1735.57
12	N 1031.34	E 1514.01
13	N 838.39	E 1835.23

NOTE:

1. ALL NEW TOPO ELEVATION'S WERE OBTAINED 12-26-79

REVISIONS

SYM.	DATE	DESCRIPTION	BY	APP'D

HENNESSEY ENGINEERS INCORPORATED

CONSULTING ENGINEERS

19366 ALLEN ROAD
TRENTON MICHIGAN 48183

TITLE: FEDERAL MARINE TERMINAL, TOPO, LOCATION OF TEST BORING HOLES, STOCK PILE VOLUME COMPUTATIONS.

PROJ. NO.

SCALE 1" = 60'

DRAWN BY

APPROVED BY

DRAWING NUMBER 80-FM

RUNING 130448

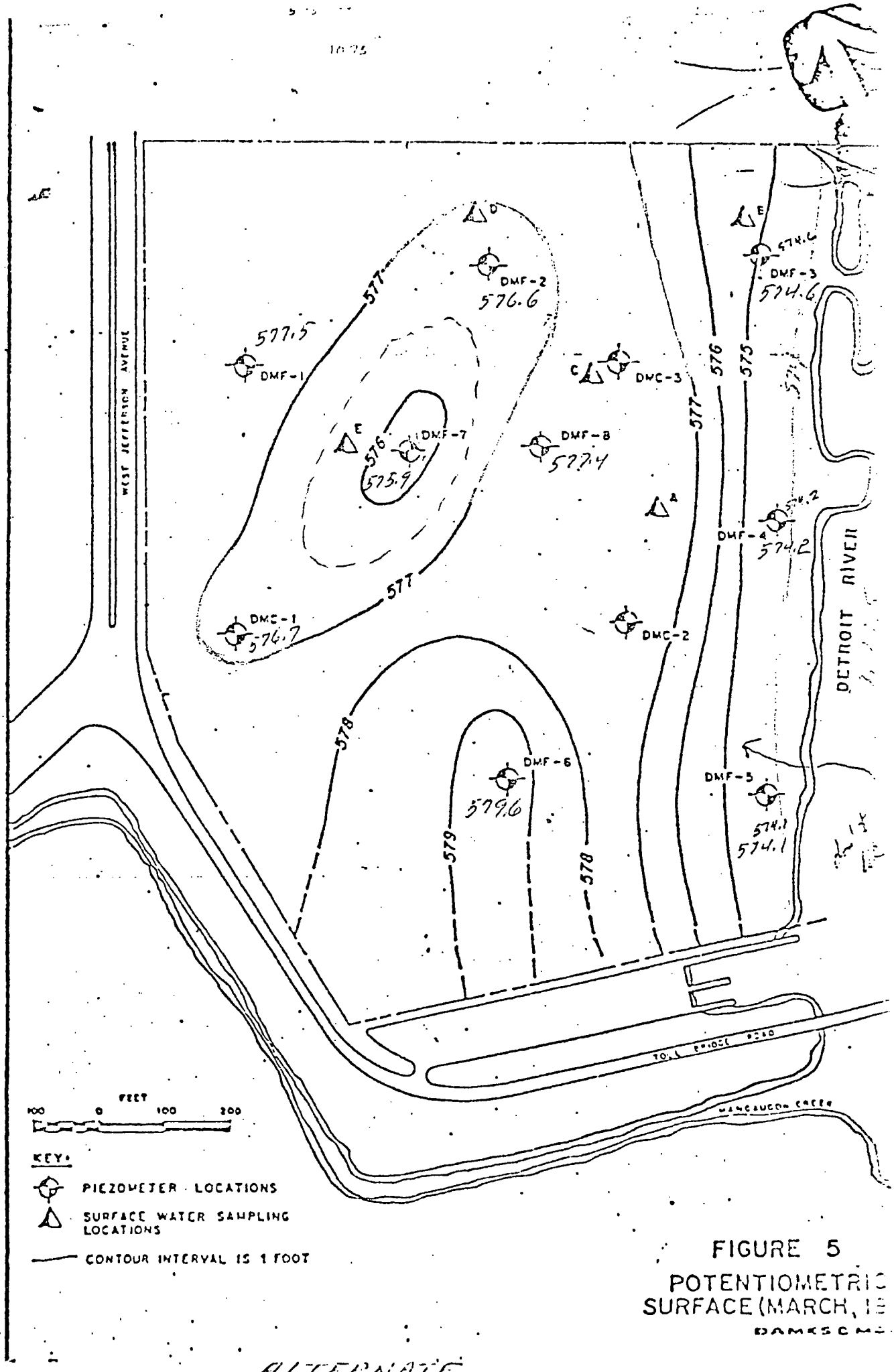


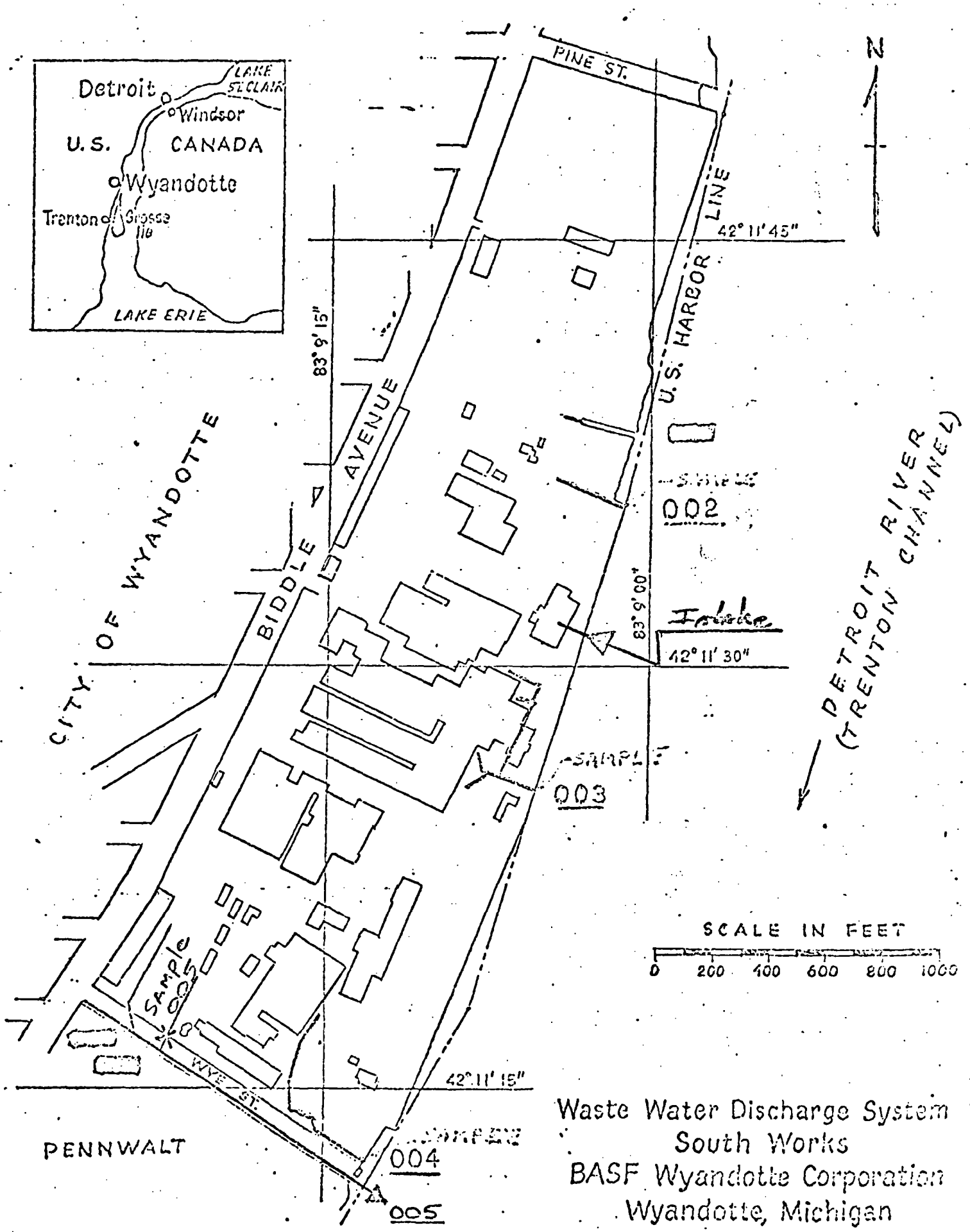
FIGURE 5
POTENTIOMETRIC SURFACE (MARCH, 1E

7145-033-07

ALTERNATE
U.S.EPA

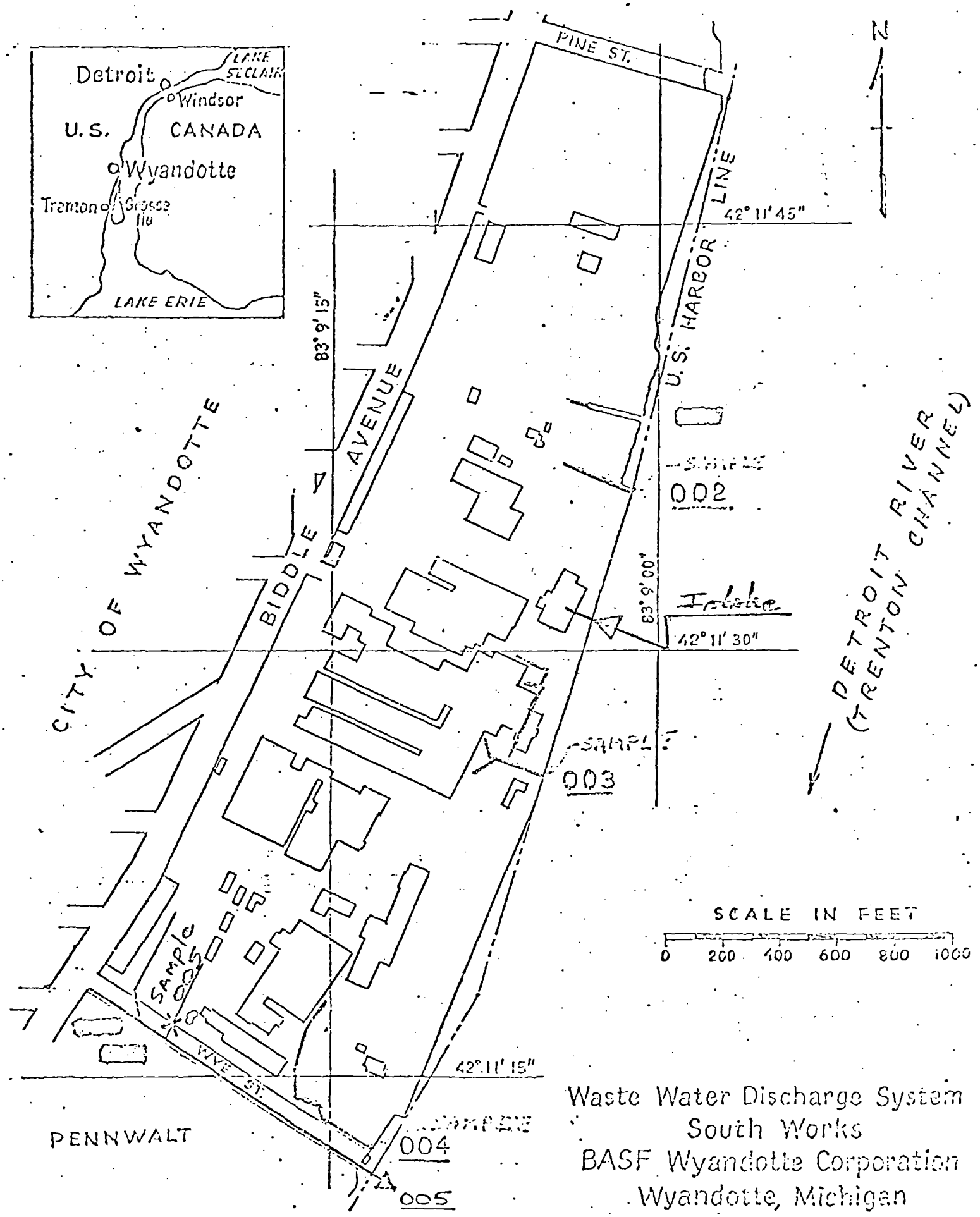
Permit No. MI 0000300

WQ

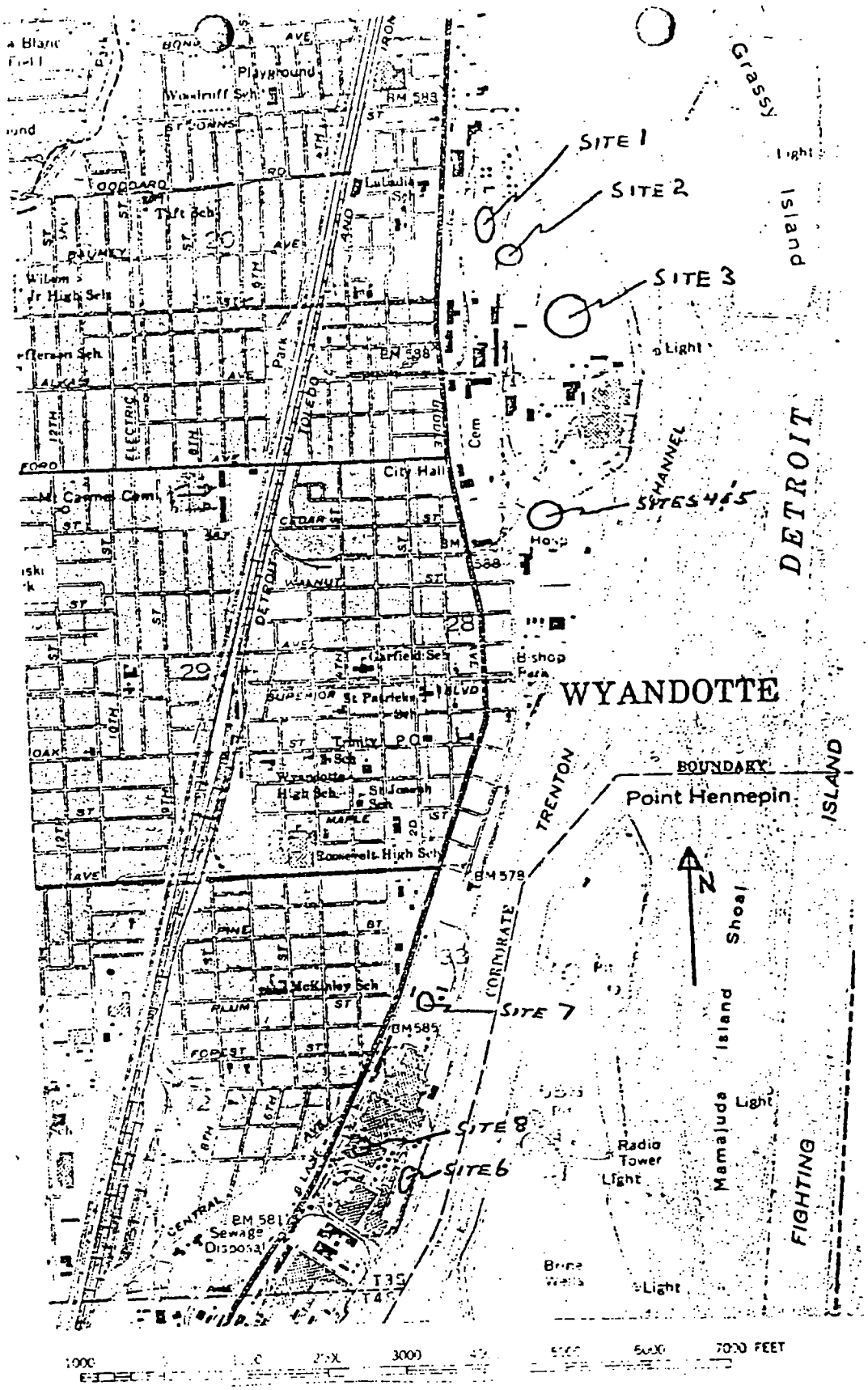


Waste Water Discharge System
South Works
BASF Wyandotte Corporation
Wyandotte, Michigan

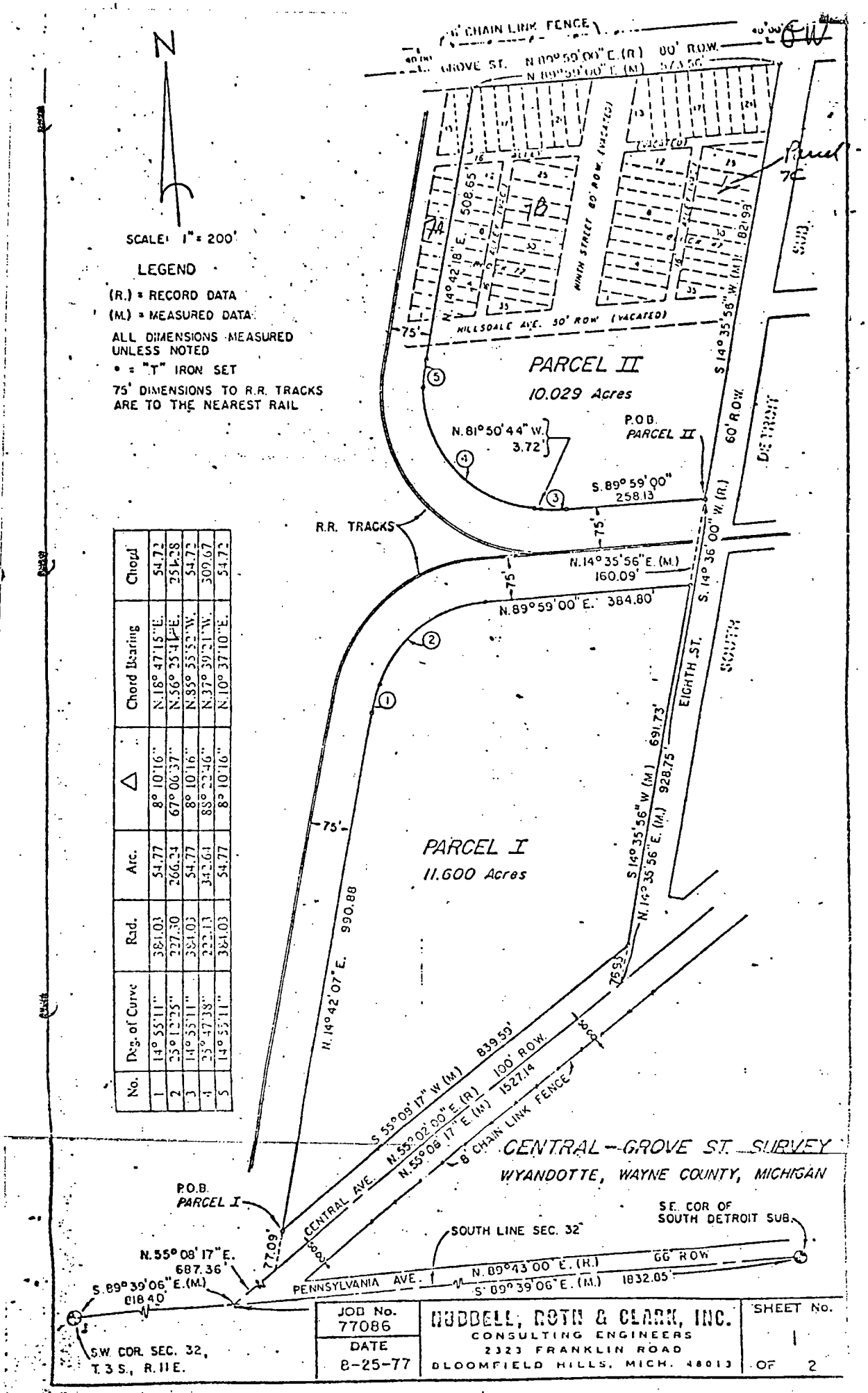
Permit No. _____



Waste Water Discharge System
South Works
BASF Wyandotte Corporation
Wyandotte, Michigan



BASF Wyandotte Corporation
Site Locations

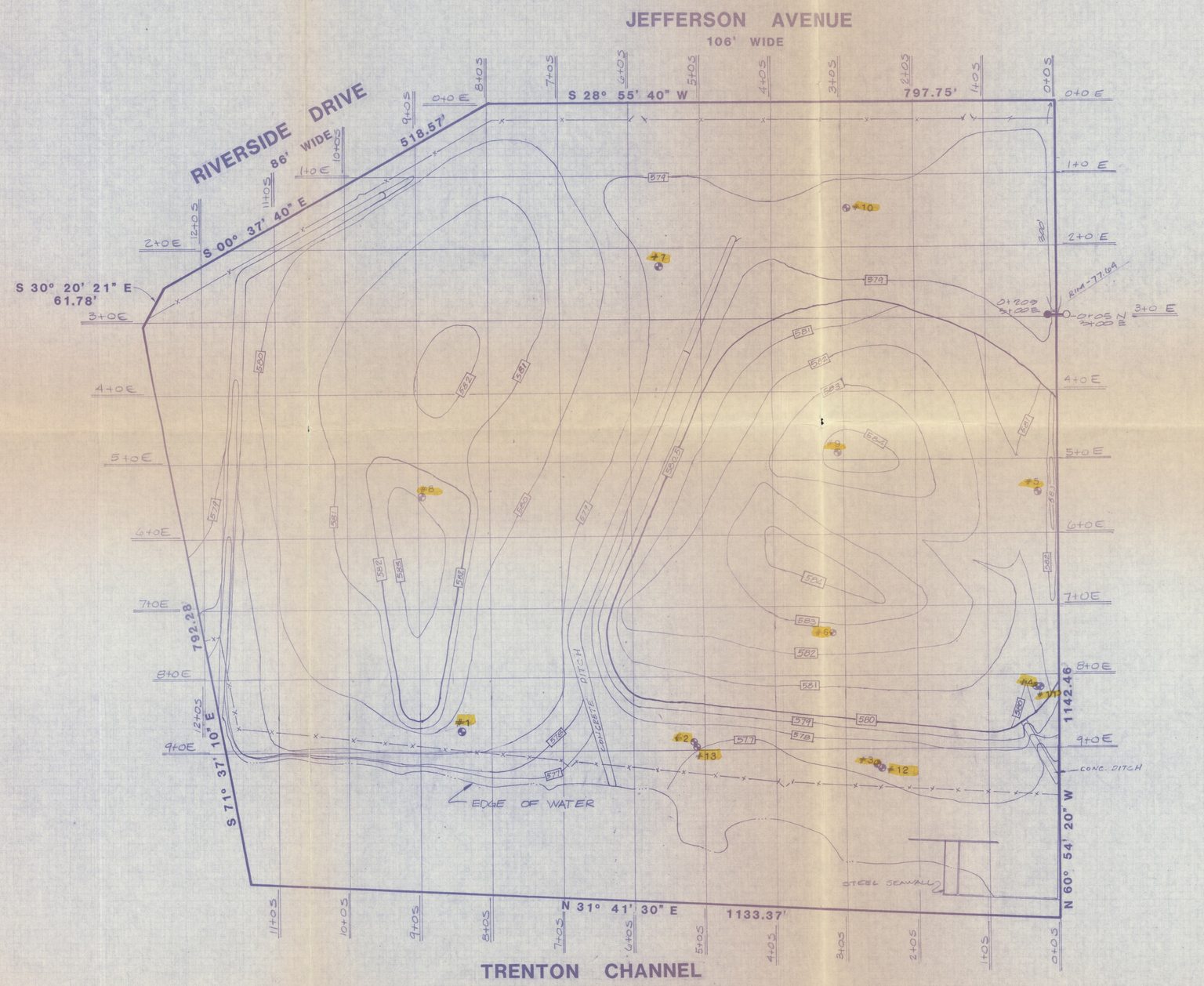


No.	Deg. of Curve	Rad.	Arc.	Δ	Chord Bearing	Chord
1	14° 55'11"	381.03	54.77	8° 10'16"	N.18° 47'15" E.	54.72
2	25° 12'25"	227.30	266.24	67° 06'37"	N.56° 25'41" E.	251.28
3	14° 55'11"	381.03	54.77	8° 10'16"	N.85° 55'55" W.	54.72
4	25° 47'38"	222.13	342.61	88° 22'46"	N.37° 39'21" W.	309.67
5	14° 55'11"	381.03	54.77	8° 10'16"	N.10° 37'10" E.	54.72

CENTRAL – GROVE ST. SURVEY

WYANDOTTE, WAYNE COUNTY, MICHIGAN

JOB No. 77086	HUBBELL, ROTH & CLARK, INC. CONSULTING ENGINEERS 2323 FRANKLIN ROAD BLOOMFIELD HILLS, MICH. 48013	SHEET No. 1 OF 2
DATE 8-25-77		



MONITOR WELL INFORMATION			
MON. WELL NUMBER	SOUTH COOR.	EAST COOR.	ELEVATION ON MONITOR CAP
1	8+41	8+73	582.29
2 D	5+15	8+92	579.98
3 D	2+56	9+23	579.77
4 D	0+31	8+17	584.34
5	0+28	5+43	585.50
6	3+17	7+37	584.43
7	5+60	2+25	581.49
8	8+90	5+55	586.25
9	3+06	4+87	587.00
10	2+92	1+47	581.96
45-11	0+26	8+18	583.16
35-12	2+51	9+27	579.97
25-13	5+12	8+99	579.88

6/14/85 Plugged & Filled
4E
7
8
10

NOTE: ELEVATIONS ON TOP OF MONITOR POST WITH LOCK CAP REMOVED

LEGEND

- MONITOR WELL
- 1' CONTOUR INTERVAL
- 582 FINISH GRADE ELEVATION CONTOUR

STATE OF MICHIGAN GREG L. ASH LAND SURVEYOR No. 28400 LICENSED LAND SURVEYOR

DBA DIETRICH, BAILEY AND ASSOCIATES, P.C.
107 South Main Street Plymouth, Michigan 48170
313/455-3111
Engineering Planning Surveying Landscape Architecture

GREG L. ASH, L.S.

REV. NO.	DATE	BY	CHKD	APV'D	APV'D	DESCRIPTION	APPR. NO.	JOB NO.	REFERENCE DRAWING	DWG. NO.
2	2-26-85	GLA				ADD MONITOR WELLS		1563		
1	2-25-85	GLA				ADDITIONS		1563		

DRAWN BY: G. ASH
DATE: 12-2-84
CHECKED BY:
DATE:

APPROVALS: MGR. DESIGN; MFG. REP.; PROJ. DES. MGR.; INSTR. ENGR.; ELECT. ENGR.; PROJ. ENGR.; PROJ. MGR.; MGR. PROJ. ENG.

TITLE: **RIVERVIEW SITE FINAL AS-BUILT GRADES**

LOCATION: RIVERVIEW, MI.

CLASSIFICATION: SITE

BASF Wyandotte Corporation

APPR. NO. 6097
PROJ. NO. 83-10-093
JOB NO. 1563
SCALE 1" = 80'

DRAWING NUMBER: 6097-15-1 DBA
6097-15-15

REV. NO.: 0

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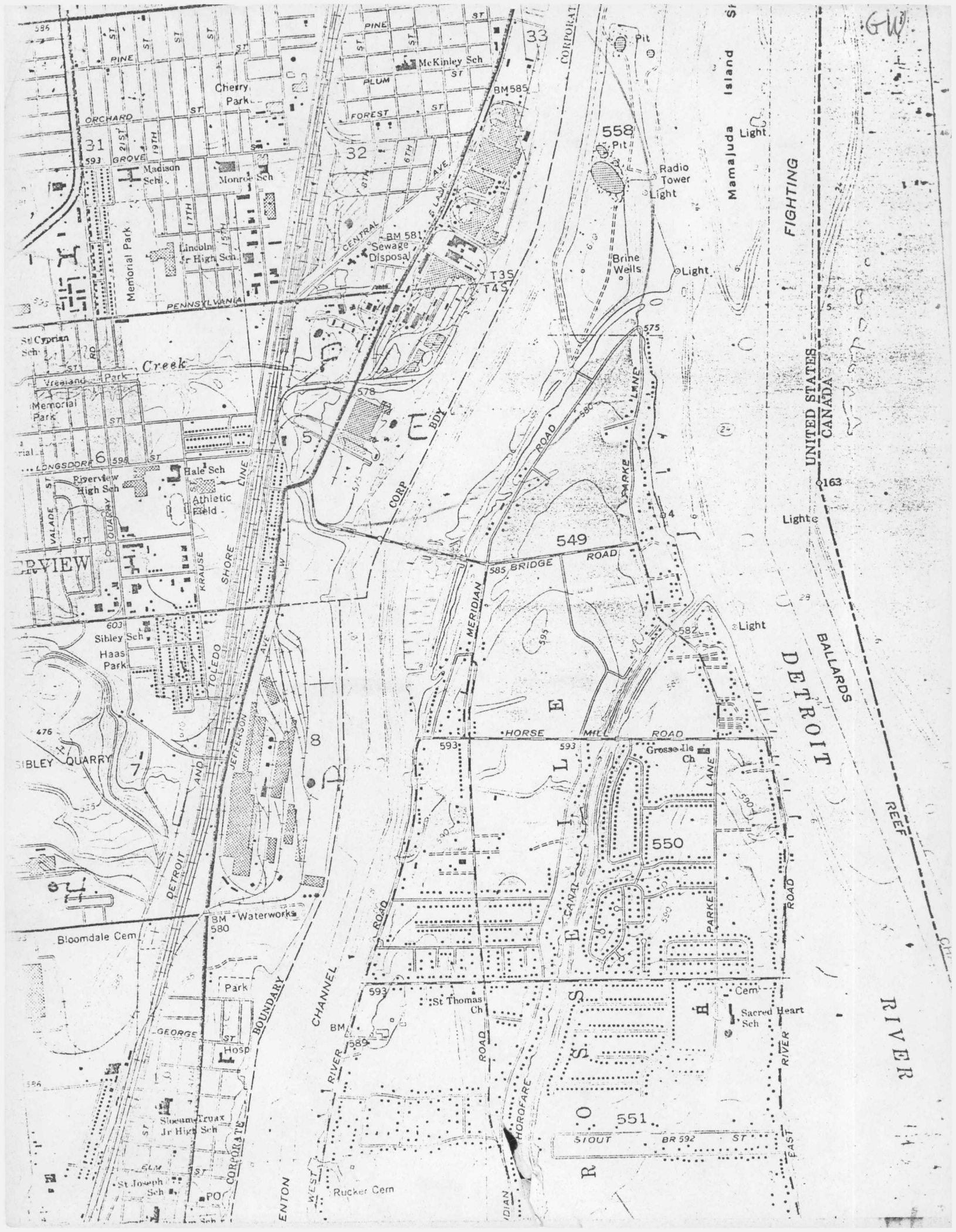
WORK SAFELY


PINE ST
McKinley Sch
PLUM ST
FOREST ST
ORCHARD ST
GROVE
Cherry Park
Madison Sch
Monroe Sch
Memorial Park
Lincoln Jr High Sch
PENNSYLVANIA
BM 581
Sewage Disposal
BM 585
CORPORATE
Pit
558
Radio Tower
Light
Mamaluda Island
FIGHTING
UNITED STATES
CANADA
Brine Wells
T3S
T4S
Creek
Vreeland Park
Memorial Park
LONGSDORF
Riverview High Sch
Hale Sch
Athletic Field
SHORE LINE
CORP BDY
ROAD
LANE
PARKE
549
BRIDGE ROAD
MERIDIAN
Sibley Sch
Haas Park
TOLEDO
JEFFERSON AVE
SIBLEY QUARRY
DETROIT AND
HORSE MILL ROAD
Grosse Ile Ch
550
CANAL
BALLARDS REEF
DETROIT RIVER
Waterworks
BM 580
Bloomdale Cem
Park
BOUNDARY
CHANNEL
St Thomas Ch
BM 589
GEORGE ST
Hosp
Cem
Sacred Heart Sch
551
STOUT ST
BR 592
EAST
Sloeum Truax Jr High Sch
CORPORATE
St Joseph Sch
PO
ENTON
WEST
Rucker Cem
HOROFARE
INDIAN