

408-16-54



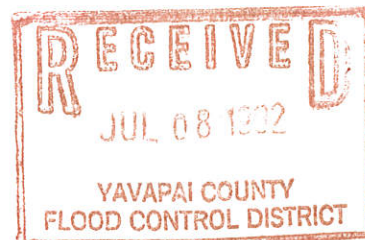
EARTH ENGINEERING ASSOCIATES, INC.

EEA JOB NO. 397-01

WATER SURFACE ELEVATION AND
FLOOD WAY/ FLOOD FRINGE BOUNDARY
FOR LOT 54, CATHEDRAL VISTA
SUBDIVISION
YAVAPAI COUNTY ARIZONA

DECEMBER 18, 1990

REVISED JANUARY 11, 1991



Revised

PREPARED FOR:

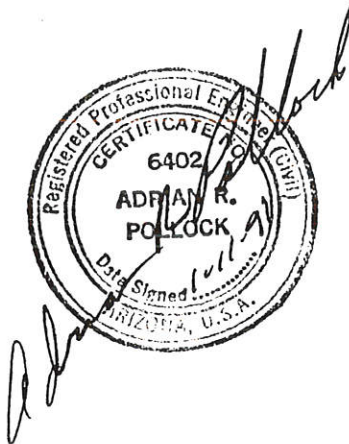
MR. VINCE RYAN
HCR 30, BOX 714
SEDONA AZ 86336
(602) 282-3675



EARTH ENGINEERING ASSOCIATES, INC.

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EEA JOB NO. 397-01 DECEMBER 18, 1990
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OBJECTIVE

This office was requested to provide water surface elevation and flood way/flood fringe boundary for Lot 54, Cathedral Vista Subdivision in Yavapai County for the referenced flood.

Lot 54 is in Carroll Canyon and backs up to the Carroll Canyon Channel. It is located 100 feet (+ or -) downstream from the bridge crossing leading to Red Rock Crossing.

STRATEGY

Yavapai County had developed the 100 Year Discharge and had cross sections and limited flow data developed from HEC-2 for the bridge across Carroll Canyon (1987). This Q100 from the Yavapai County files was accepted. Cross sections were taken at each boundary of Lot 54, one upstream and one downstream. One additional cross section was taken downstream. Location of these cross sections are shown on the attached drawing. This field data was merged with Yavapai County data and input into HEC-2 file. The cross sections provided by Yavapai County were on an assumed datum. Earth Engineering Associates cross sections elevations were adjusted to Yavapai County datum by subtracting 2038.5 from ground mean sea level elevation. HEC-2 water surface elevation and floodway boundary routines were then run using adjusted data. Water surface elevations for Q100 was then adjusted back to mean sea level.

Water surface elevation for the referenced flood was used to establish finish floor elevation (Section 1 was used as cross section A as noted on the attached sketch).



EARTH ENGINEERING ASSOCIATES, INC.

DATA SHEET

<u>C/S#</u>	<u>ENCROACHMENT LEFT</u>	<u>STATION RIGHT</u>	<u>100 YEAR CWSEL</u>	<u>FLOODWAY CWSEL</u>
1 (1)	112	174	1953.97	1954.23
0.5 (2)	36	80	1953.15	1953.32
0	51	82	1951.38	1952.20

(1) C/S#1 IS EXTENSION OF NORTH LOT LINE OF LOT 54

(2) C/S# 2 IS EXTENSION OF SOUTH LOT LINE OF LOT 54

(3) ALL ELEVATIONS ON DATUM OF YAVAPAI COUNTY HYDROLOGY
ADD 2038.5 TO BRING UP TO MSL DATUM

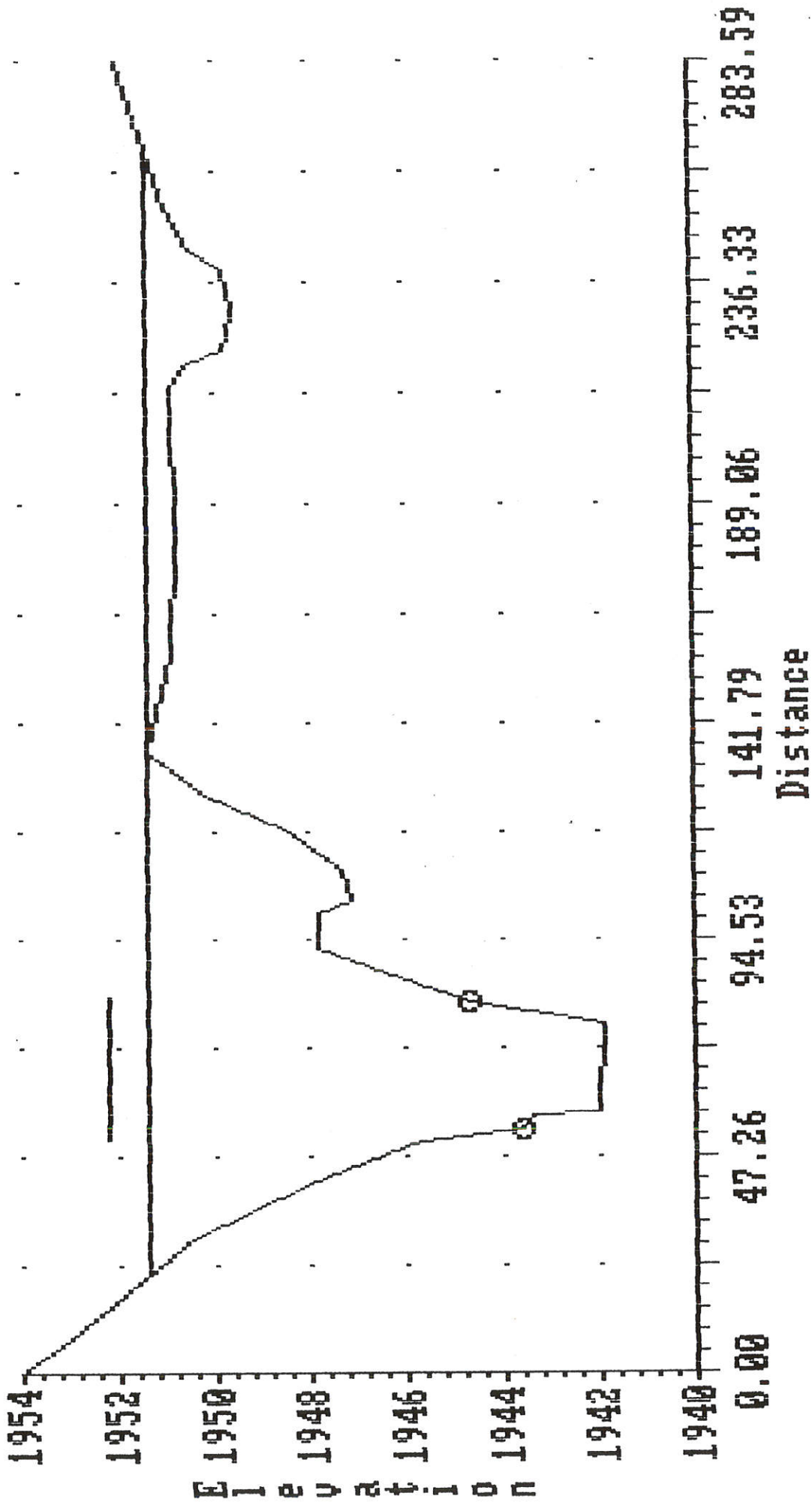
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CC6.DAT

FINISHED FLOOR ELEVATION

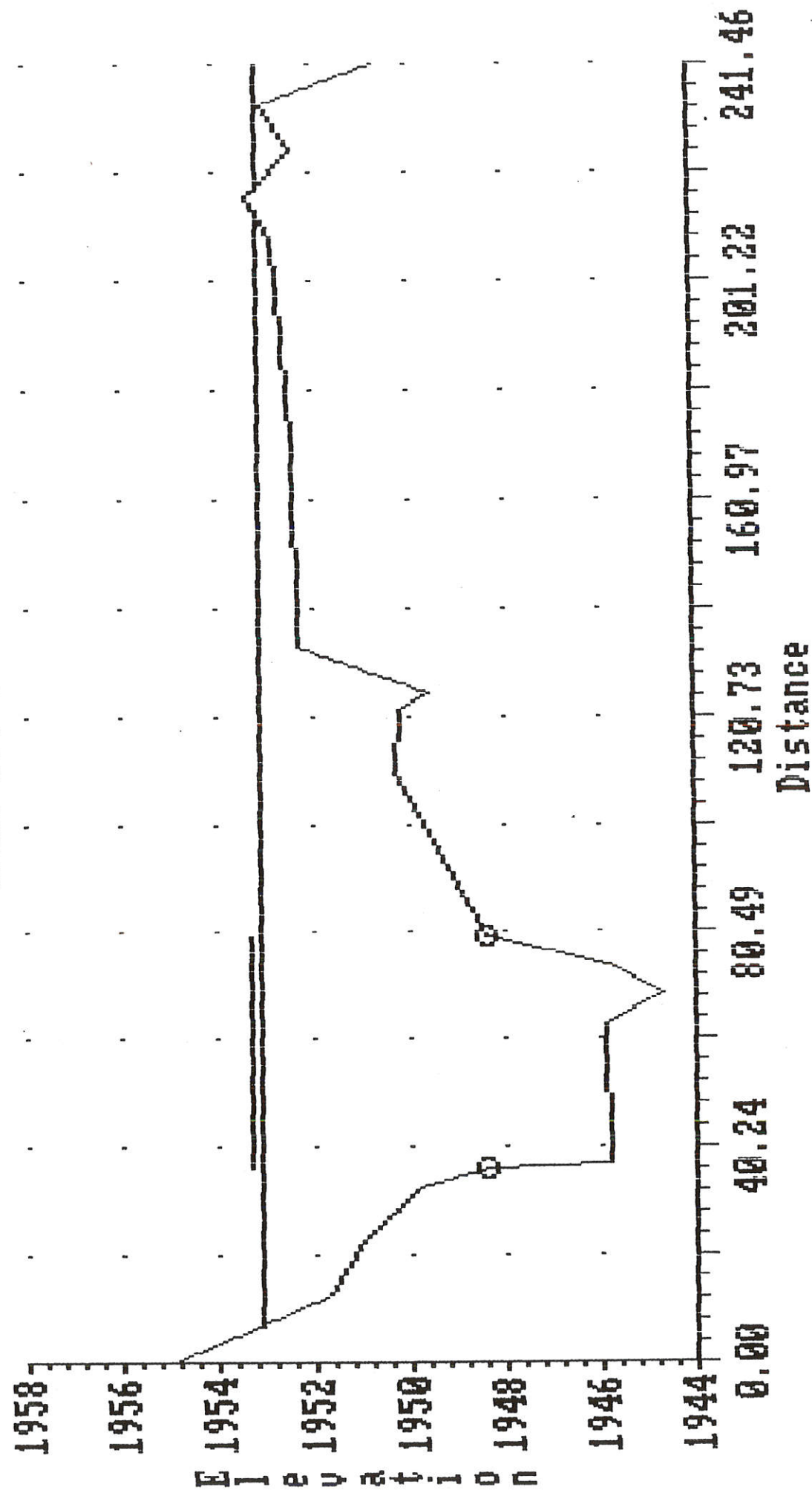
WATER SURFACE ELEVATION FOR CROSS SECTION 1 = 3992.73

MINIMUM FINISH FLOOR ELEVATION = 3993.73

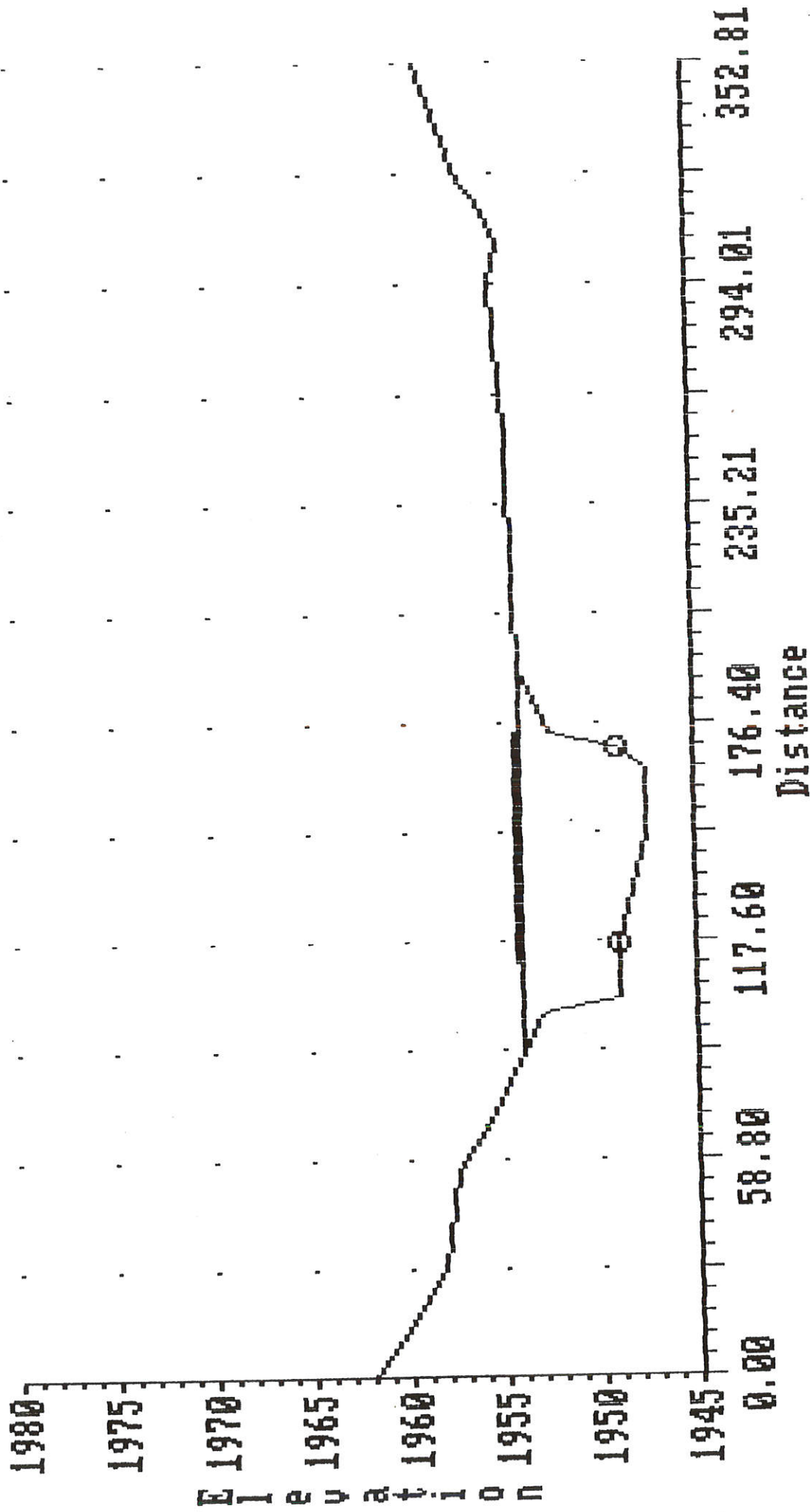
CRITICAL FLOW 100 YR DIS
 Cross-section .000



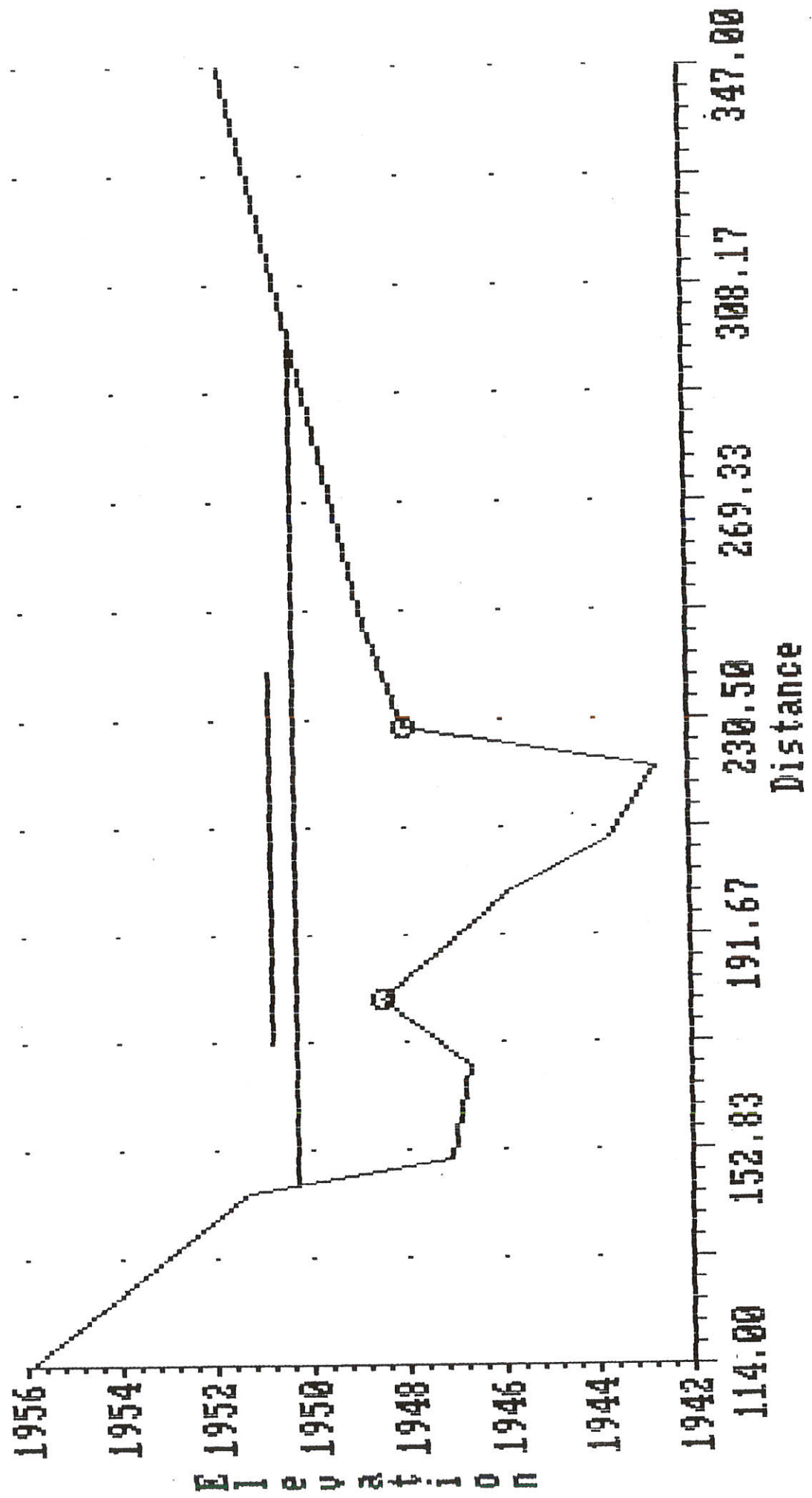
CRITICAL FLOW 100 YR DIS
 Cross-section .500



CRITICAL FLOW 100 YR DIS
 Cross-section 1.000



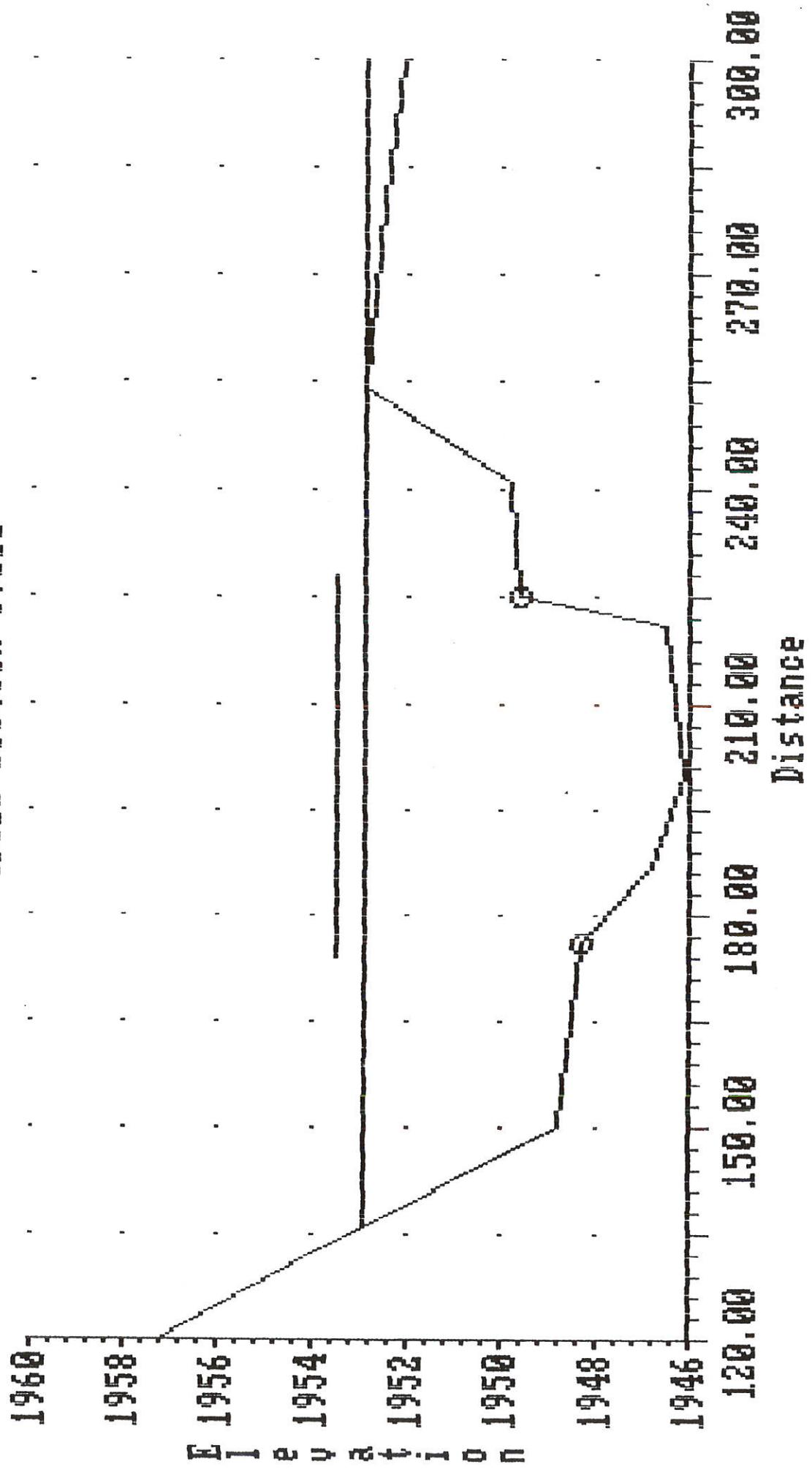
CRITICAL FLOW 100 YR DIS
 Cross-section 2.0000



Elevation

Distance

CRITICAL FLOW 100 YR DIS
 Cross-section 3.000





File 408-16-054
EARTH ENGINEERING ASSOCIATES, INC.

EEA JOB NO. 397-01

WATER SURFACE ELEVATION AND
FLOOD WAY/ FLOOD FRINGE BOUNDARY
FOR LOT 54, CATHEDRAL VISTA
SUBDIVISION
YAVAPAI COUNTY ARIZONA

DECEMBER 18, 1990



PREPARED FOR:

MR. VINCE RYAN
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(602) 282-3675

*Received
Dec. 19, 1991*

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EARTH ENGINEERING ASSOCIATES, INC.

I N D E X

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Adrian R. Pollock

Registered Professional Engineer
CERTIFICATE NO. 6402
ADRIAN R. POLLOCK
Date Signed 12/18/79
ARIZONA, U.S.A.



EARTH ENGINEERING ASSOCIATES, INC.

**WATER SURFACE ELEVATION AND FLOOD WAY/FLOOD FRINGE BOUNDARY
FOR LOT 54, CATHEDRAL VISTA SUBDIVISION
YAVAPAI COUNTY ARIZONA
EEA JOB NO. 397-01 DECEMBER 18, 1990**

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Water surface elevation for the referenced flood was used to establish finish floor elevation (Section 1 was used as cross section A as noted on the attached sketch).



EARTH ENGINEERING ASSOCIATES, INC.

DATA SHEET

C/S#	ENCROACHMENT LEFT	STATION RIGHT	100 YEAR CWSEL	FLOODWAY CWSEL
1 (1)	115	161	1954.55 (3)	1955.18
0.5 (2)	36	81	1952.79	1953.21
0	53	83	1951.19	1952.08

- (1) C/S#1 IS EXTENSION OF NORTH LOT LINE OF LOT 54
- (2) C/S# 2 IS EXTENSION OF SOUTH LOT LINE OF LOT 54
- (3) ALL ELEVATIONS ON DATUM OF YAVAPAI COUNTY HYDROLOGY
ADD 2038.5 TO BRING UP TO MSL DATUM

NOTE: HEC-2 DATA DISC IS ENCLOSED. THE INPUT FILE NAME IS CC3.DAT

FINISHED FLOOR ELEVATION

WATER SURFACE ELEVATION FOR CROSS SECTION 1 = 3989.05

MINIMUM FINISH FLOOR ELEVATION = 3990.05

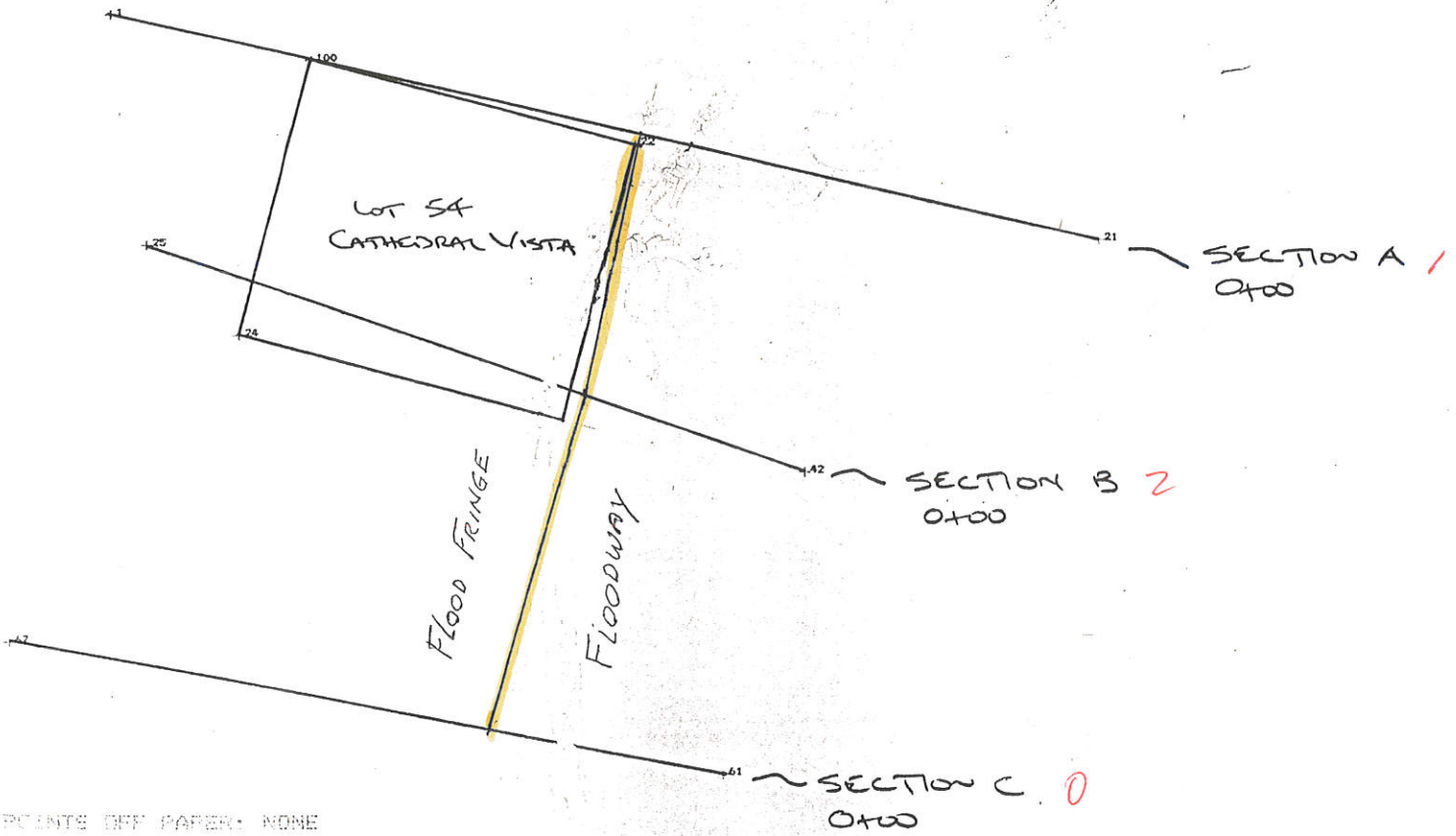
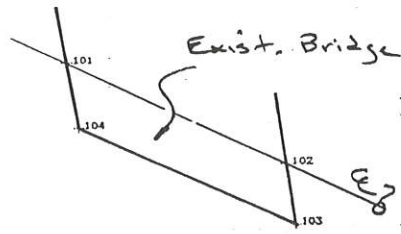
?
 1954.55
 + 2038.50

 3993.05
 + 1.00

 3994.05

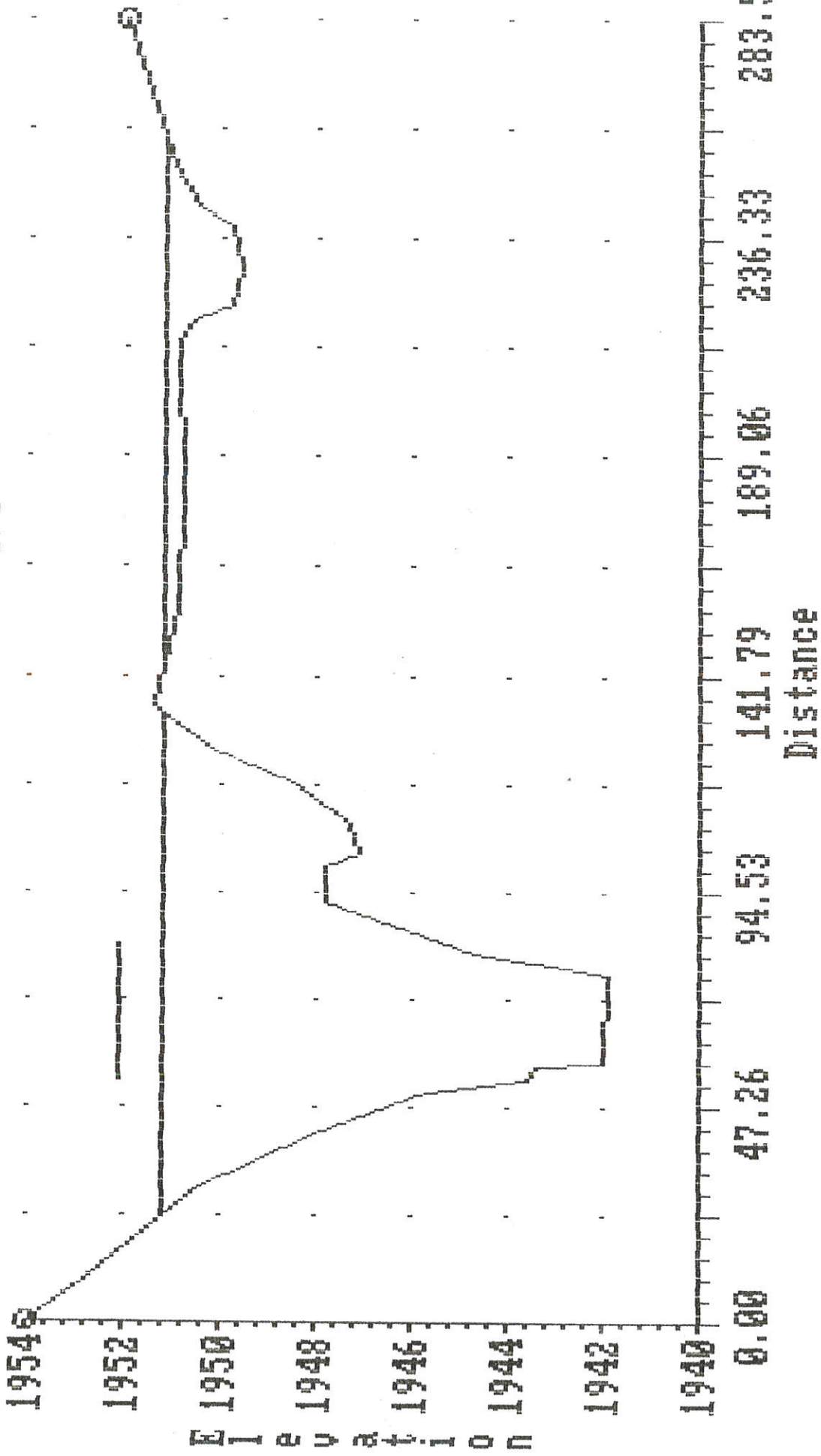
See Revised Report
7/92

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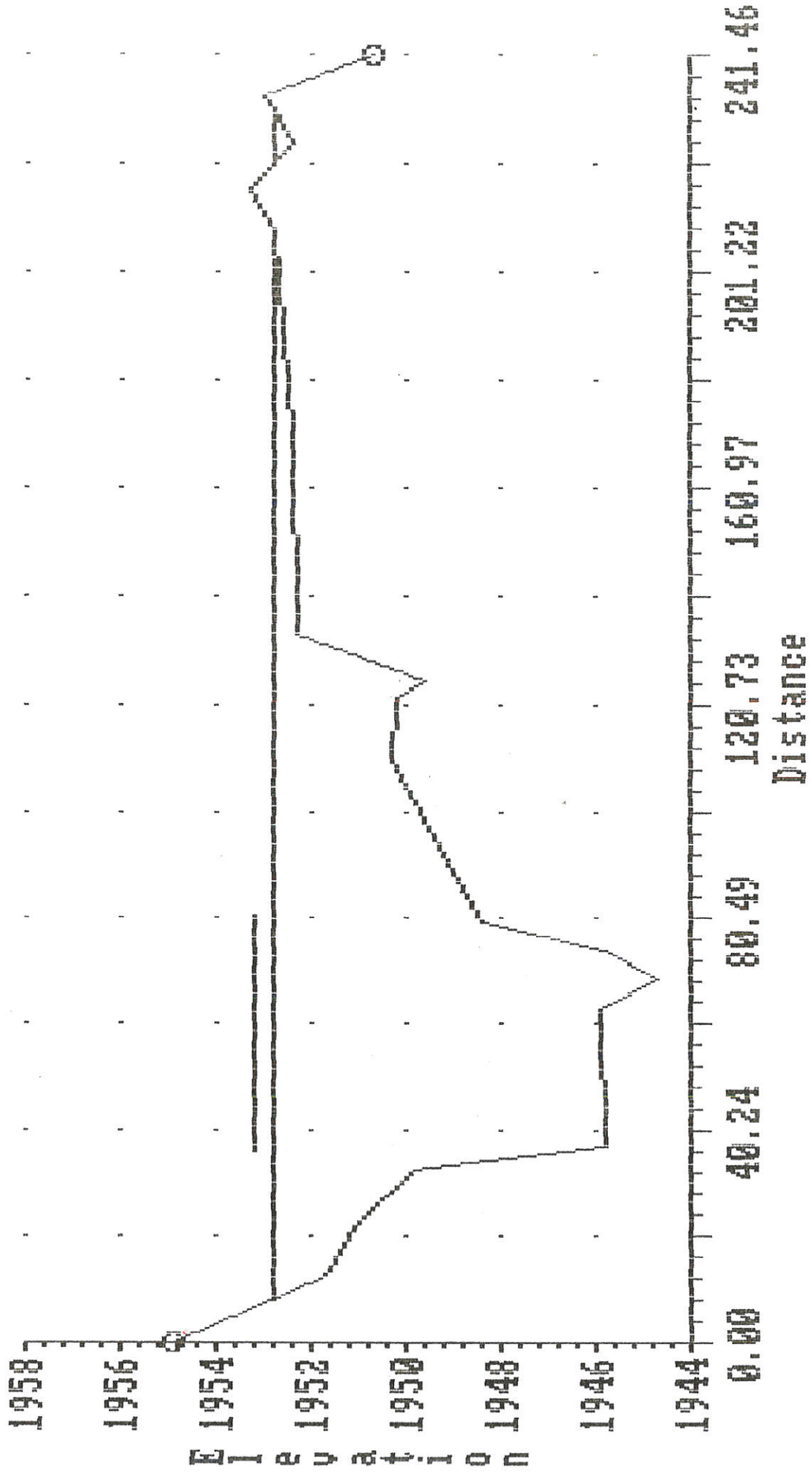


POINTS OFF PAPER: NONE

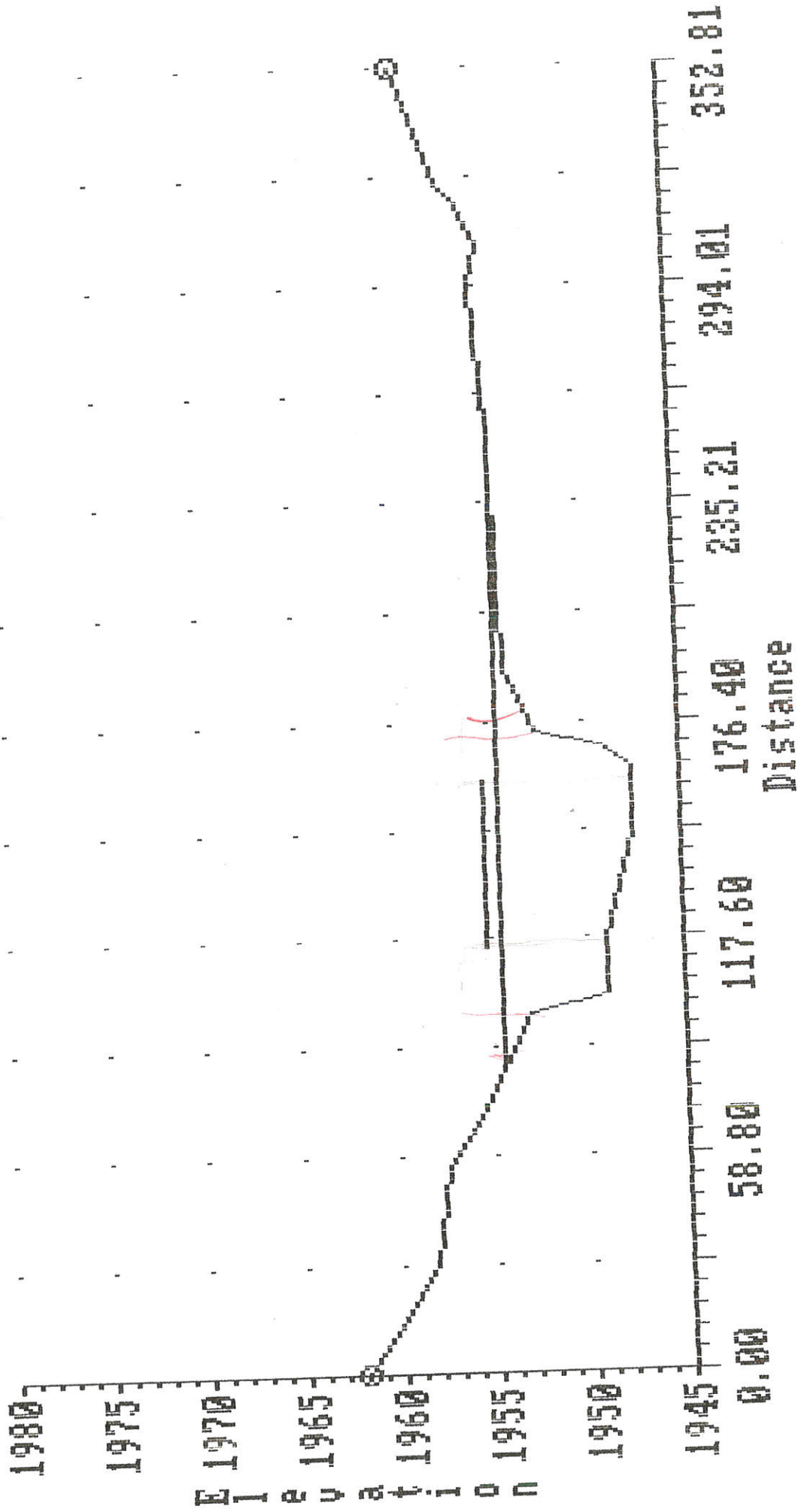
CRITICAL FLOW 100 YR DIS
 Cross-section .000



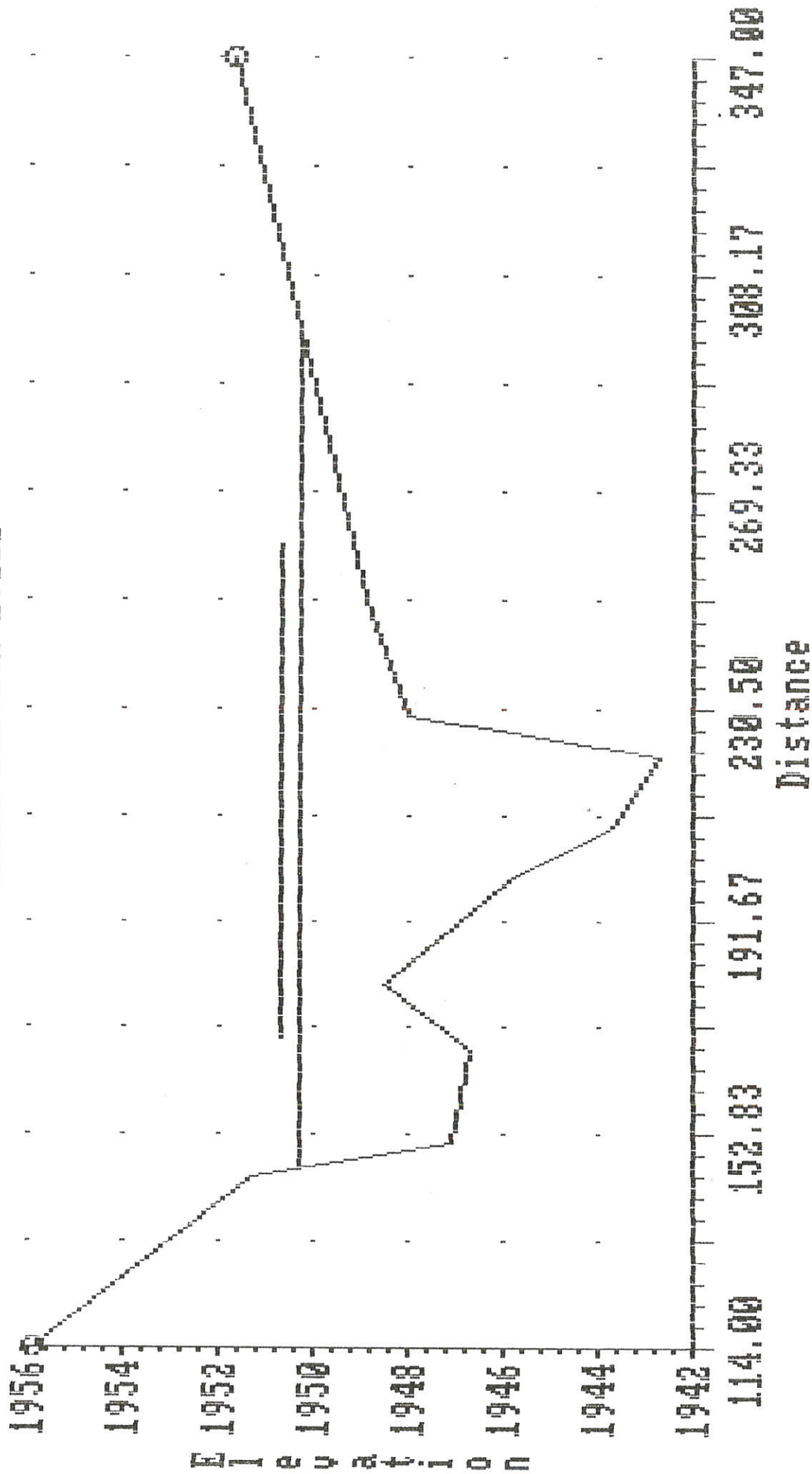
CRITICAL FLOW 100 YR DIS
 Cross-section .500



CRITICAL FLOW 100 YR DIS
 Cross-section 1.000



CRITICAL FLOW 100 YR DIS
 Cross-section 2.000



CRITICAL FLOW 100 YR DIS
Cross-section 3.000

