

MAINSTEM POTOMAC RIVER
SELECTED CHANNEL SURVEY AND DATA REPORT
PAW PAW, WV TO HANCOCK, MD

Prepared by

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for the
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National Park Service

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Interstate Commission on the Potomac River Basin
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INTRODUCTION

To provide enhanced capability for flood routing to Hancock, Md. the Interstate Commission on the Potomac River Basin (ICPRB) is developing a hydraulic model of the mainstem Potomac River from Paw Paw, W.V. to Hancock, Md. This report describes channel conditions at select locations along the mainstem.

Vertical and horizontal control information was obtained from the U.S. Geological Survey (USGS) and the National Geodetic Survey, formerly the U.S. Coast and Geodetic Survey (USCGS). Floodplain management studies from the Federal Emergency Management Agency (FEMA) and the U.S. Army Corps of Engineers (ACE) contained useful information on both elevations in the Town of Hancock as well as channel cross sections for the Potomac River. The hydraulic analysis for the route 51 bridge at Paw Paw, W.V., prepared for the Maryland State Highway Administration, was also a valuable source of information. This information has been reviewed and integrated with field surveys of the main channel of the Potomac River performed by ICPRB.

VERTICAL AND HORIZONTAL CONTROLS

Coast and Geodetic Survey

Vertical control data was obtained for Coast and Geodetic Survey benchmarks for the 30 minute quadrangle covering Paw Paw, W.V. from latitude $39^{\circ}30'$ to $40^{\circ}00'$ N and longitude $78^{\circ}00'$ to $78^{\circ}30'$ W. All elevations are referenced to the sea-level datum of 1929. The complete set of benchmark descriptions is contained in appendix A.1

U.S. Geological Survey

Vertical and horizontal control data was obtained from the U.S. Geological Survey for the Paw Paw, Hancock, and Williamsport 15 minute quadrangles. All elevations are third-order levelings referenced to the sea-level datum of 1929. The complete sets of vertical and horizontal benchmark descriptions for each 15 minute quadrangle are contained in appendices A.2 through A.4.

Federal Emergency Management Agency

The FEMA floodplain map for Hancock, Md. was reviewed for flood heights and elevation reference markers (RM). Elevation marks were field verified where possible.

Benchmarks

Using Coast and Geodetic Survey descriptions, a number of key elevation markers were located and identified. USCGS Benchmark A 43 was located as described on the fourth pier of the U.S. Highway 522 bridge in Hancock, Md. The benchmark was found in good condition as shown in photo plate (PP) 1. USCGS benchmark C 448, shown in PP 2, was located in the second step of the Hancock Bank on main street as described. USGS benchmark C 459 on the C&O Canal Aqueduct over Fifteen Mile Creek was located and found badly damaged as shown in PP 3.

In addition to these benchmarks U.S.G.S. stream gage number 01613000 contains an elevation marker corresponding to the maximum height of the 1936 flood. This marker, shown in PP 4, was located and determined to have an approximate elevation of 431.23 feet msl based on the maximum stage of 47.6 feet and the gage datum of 383.68 feet msl.

The FEMA floodplain map for the town of Hancock contained the location and description of 9 reference marks including USGS benchmark C 448 described above as well as Maryland Geodetic Survey benchmark WA 2. This benchmark was found to be in poor condition in 1960. At that time it was noted that the benchmark had apparently been moved due to road construction. Benchmark WA 2 could not be located. Similarly U.S. benchmark Z 42 at the east end of the Town of Hancock could not be located. FEMA RM 4, a chiseled square on the State Rt. 144 bridge was located as described, and is shown in PP 5. With the exception of benchmark C 448 and FEMA RM 4, the location of most of the FEMA reference marks could not be verified, as summarized in Table 1.

The U.S.G.S. 7.5 minute quadrangle maps indicated the presence of surveyed vertical controls every 0.5 to 1.0 mile along the Potomac mainstem. These markers were placed in association with the Western Maryland Railroad and B&O Railroad rights of way on either shore of the river. From the river the B&O right of way is mainly inaccessible, although an actively used gravel access road exists beside the active road bed. Repeated searches for vertical controls on the accessible bridges and trestles of the Western Maryland right of way were unsuccessful. A possible explanation was discovered while searching for marker Z 42 at the eastern end of the Town of Hancock. At that time a track reclamation train (PP 6) was found removing the rails from the road bed. The conditions of the bed after reclamation (PP 7) may well explain ICPRB's inability to locate any benchmarks along the right of way.

The verified elevation markers used in ICPRB's survey are summarized in Table 2.

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CROSS SECTIONS

Three sets of cross sections of the mainstem Potomac River are described. Eight channel profiles surveyed at low water are described in the vicinity of Paw Paw and Fifteen Mile Creek. These cross

sections are designated X1 through X8. The locations of cross sections X1 through X6 are indicated on Paw Paw map 1.

A more extensive set of cross sections associated with the design of the Rt. 51 bridge at Paw Paw, W.V. are also included in this report. These transects concentrate on the valley and floodplain cross section under high flow conditions, providing little resolution of the channel bottom. These cross sections were prepared by Bernard Johnson Inc. and are designated sections 100 through 800, and sections 8.5 through 12.91. Paw Paw map 2 shows the location of these sections.

Full river cross sections at Hancock, Md. are also included in this report. Designated cross sections 18 through 23, these surveys include transects at the C&O Canal Maintenance yard at Hancock, as well as the U.S.G.S. stream gage at Hancock. These cross sections were surveyed for the Baltimore District of the U.S. Army Corps of Engineers as part of the floodplain information study for Washington County. Over 300 surveyed cross sections were produced for this study. These have been obtained from the ACE and are under loan to National Capital Region for archival microfilming.

The cross section location maps along with individual plotted transects are presented in the following three sections.

TABLE 1

FEMA REFERENCE MARKS FROM THE FLOODPLAIN MAP OF HANCOCK MARYLAND.

RM1	RM1 is located on private property. No attempt was made to verify its location
RM2	could not be located as described
RM3	could not be located as described
RM4	located as described (see PP 5)
RM5	due to conditions on the Chessie System headwall the location of RM5 could not be verified
RM6	located and verified (see PP 2). The location of RM6 on the FEMA floodplain map for Hancock, Md. is in error. The USCGS description of C 448 is accurate.
RM7	could not be located as described
RM8	could not be located as described

TABLE 2
VERIFIED ELEVATION MARKERS

MARK	ELEVATION	DESCRIPTION
A 43	431.636	0.5 miles west of Hancock along the Western Maryland railroad from the station at Hancock, 49 feet north of mile-post No. 116, set in the northeast end of the corner of the 4th pier base from the northwest end of the U.S. Highway No. 522, 8.5 feet southeast of the southeast rail of the track, 5 feet above the ground level. A standard disk stamped "A-43 1941" and set vertically.
C 448	448.241	At Hancock, at the Hancock Bank, set vertically in the front of the north face of the bank, 13.8 feet south of the south curb of Main Street, 1.7 feet west of the west edge of the front door, 1.2 feet above the sidewalk level. A standard disk stamped "Maryland C-448"
C 459	459.394	(USGS) Little Orleans; at Chesapeake and Ohio Canal aqueduct over Fifteenmile Creek; in N. end of E. coping; standard tablet stamped "C 459".
	431.23	1936 high water mark at USGS gage 01613000 at Hancock, Md on north face of the west end of the gage walkway a vertical disk stamped "FLOOD MARK".
	487.88	Datum of USGS gage 01610000 at Paw Paw, W.V., a horizontal disk placed at the northeast corner of the base of the gage house.
	417.45	FEMA RM 4; a chiseled square on top of the northeast corner of State Route 144 bridge on top of concrete rails over Little Tonoloway Creek.

Cross Sections X1 through X8

The locations of cross sections X1 through X6 are shown on Paw Paw location map 1. Benchmarks along the Western Maryland Railroad bridges on either side of Bevan bend could not be located. All elevations are based on the datum of the USGS streamgage at Paw Paw, WV. All cross sections are plotted looking downstream. The emphasis in this survey was to accurately identify the bottom profile under relatively low flow conditions.

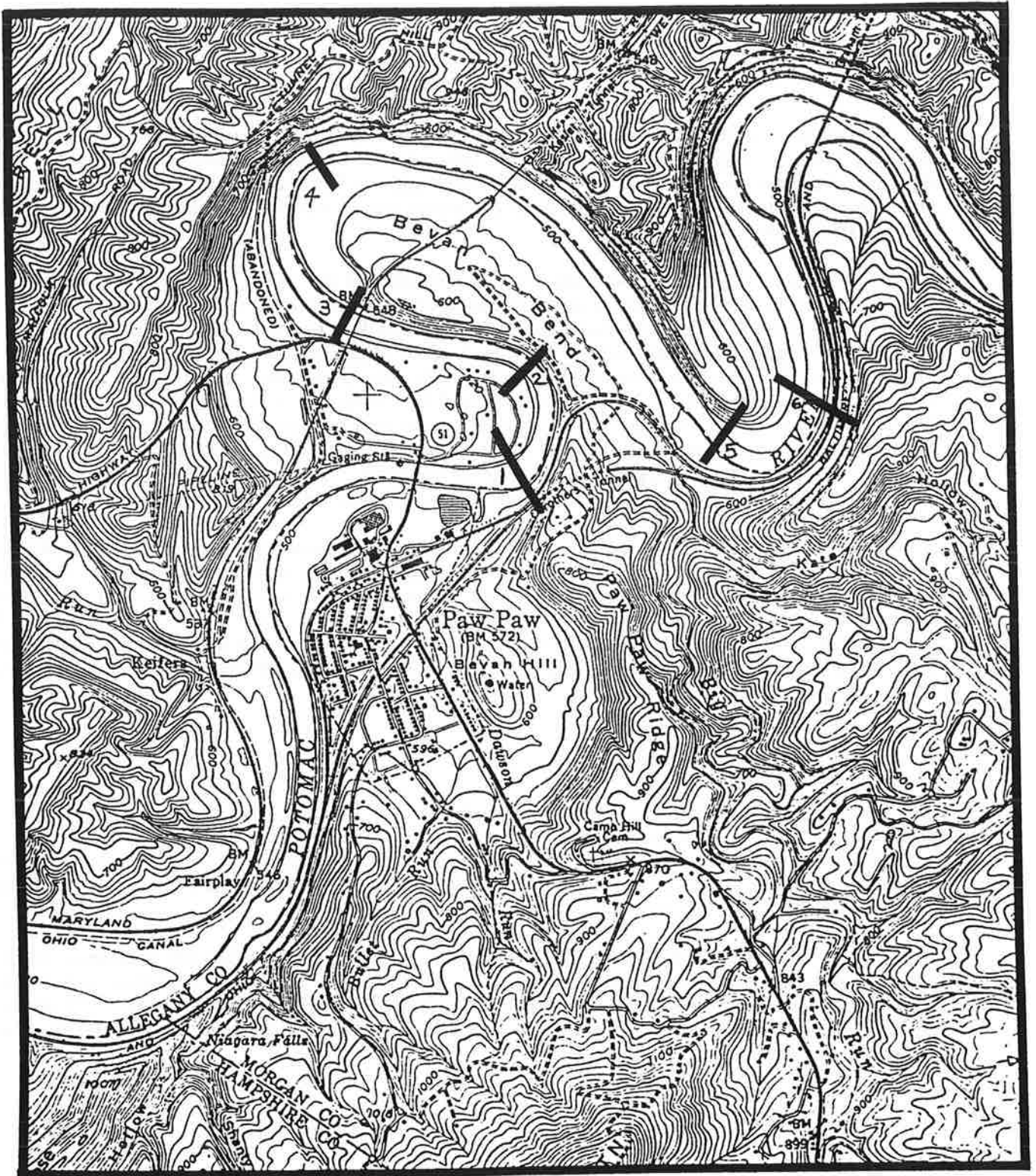
Cross sections X1 and X2 were taken at the entrance and exit of the first meander downstream from the Rt. 51 Bridge. The location of the deeper portion of the channel reflects the higher velocities found in the outside of meander bends. Throughout the Paw Paw bends the outer bank of the channel tends to be controlled by steep bedrock walls, with gently sloped alluvial deposits on the inner bank. The bedrock exposures are frequently associated with riffle-pool sequences in bedrock controlled channels. Cross section X3 is taken at the C&O Canal boat ramp at Paw Paw just downstream from the Western Maryland railroad bridge. At this location a calm pool is formed by bedrock outcrops crossing the river both upstream and downstream of the boat ramp. Section X4 at Bevan Bend had an unusual bottom profile with greatest depths closer to the W.Va. shore. The gravelly point forming the inner bank of Bevan Bend corresponds to another bedrock outcrop crossing the river at this point.

Downstream of Bevan Bend a long bedrock controlled riffle sequence was encountered with a deeper channel on the W.Va. side of the reach. The riffle sequence ends at the location of another steep outcrop forming a constriction on the Md. shore. This is the location of cross section X5. The transect was carried to the top of the floodplain on the W.Va. shore. Cross section X6 was continued to the top of a concrete trestle of the B&O railroad right of way. The inner bend of this meander is a broad gravel bar. Vegetation growing above the bar on the flood plain shows clear evidence of recent submergence during high past flow events.

Fifteen Mile Creek

Cross Section X7 was surveyed from Benchmark C 459 on the C&O Canal Aqueduct. At this point in the River a broad pool is formed by a downstream bedrock outcrop. The banks and shore are muddy indicating a relatively calm depositional environment under receding flow conditions. The transect was carried to the large island on the W.Va. shore. Thick vegetation did not allow the transect to be carried over the island at this time.

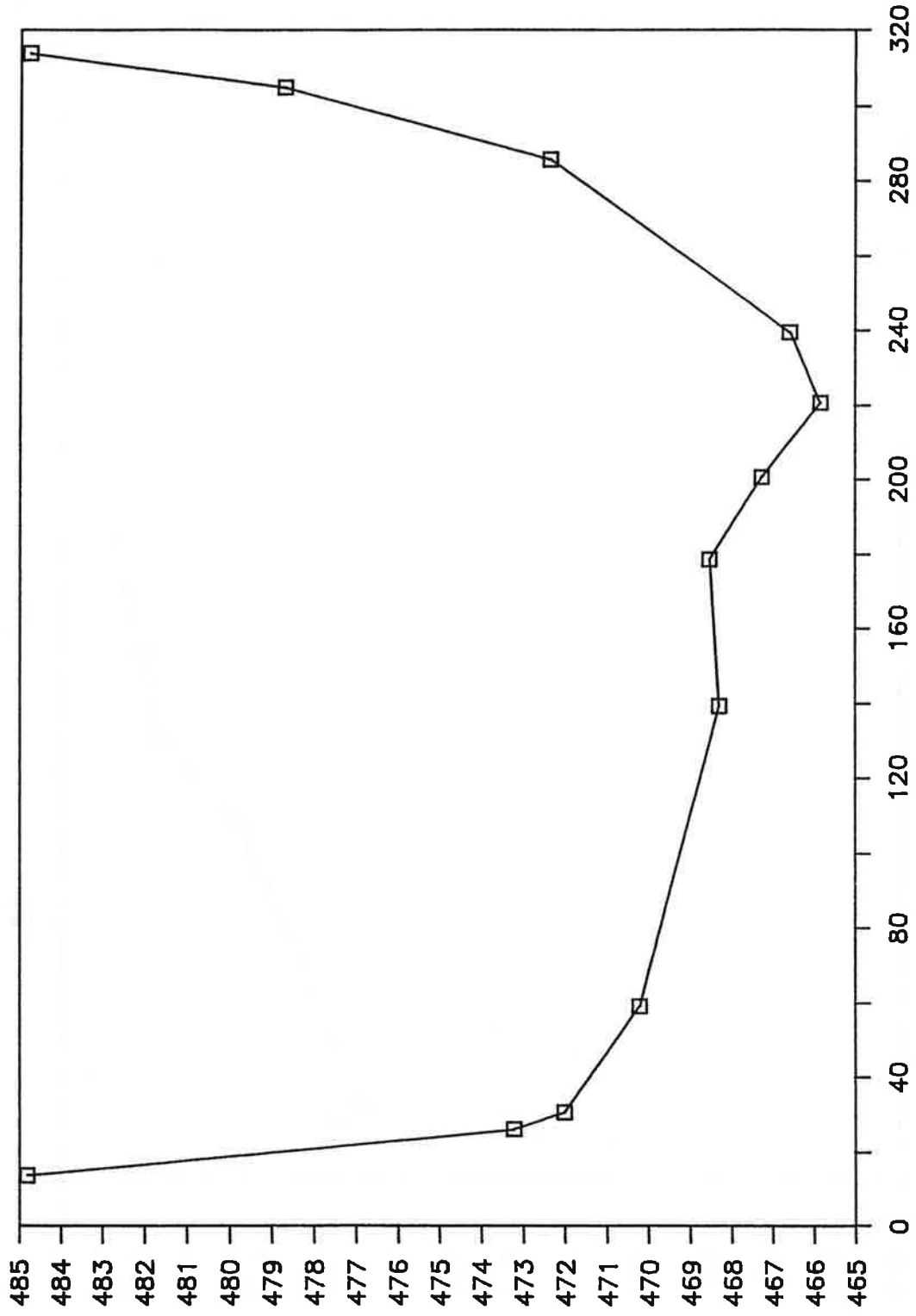
Cross section X8a is the bottom profile of the first meander downstream from Fifteenmile Creek. The meander has a vegetated gravel bar on its inner bank and a steep bedrock controlled slope on the outer bank. Cross section X8 is a continuation of section X8a up the steep outer bank. This section demonstrates the vertical extent to which the meander has become entrenched on its outer bank in response to bedrock control.



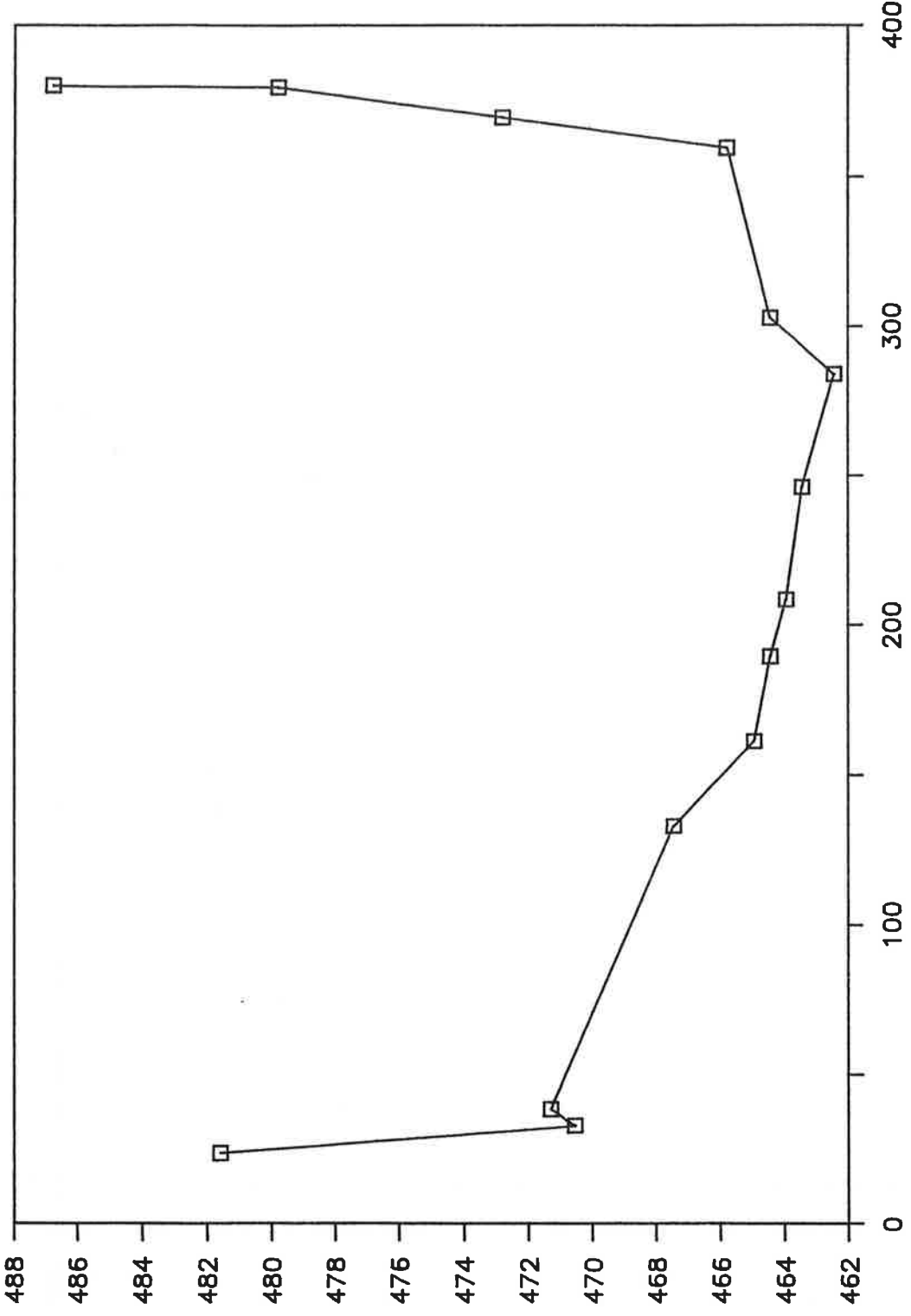
Location Map Paw Paw W.V.

Map 1

Cross Section X1

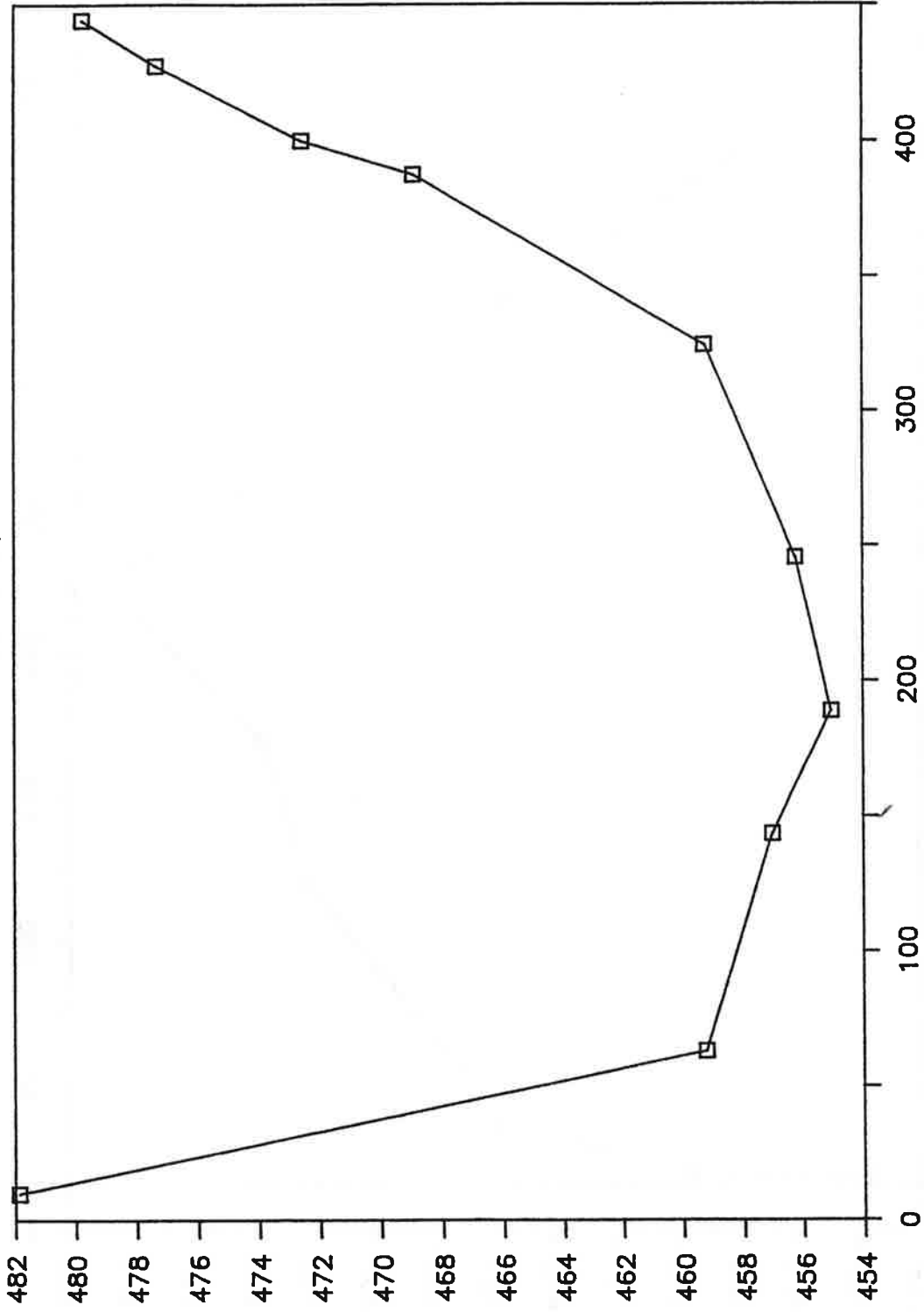


Cross Section X2

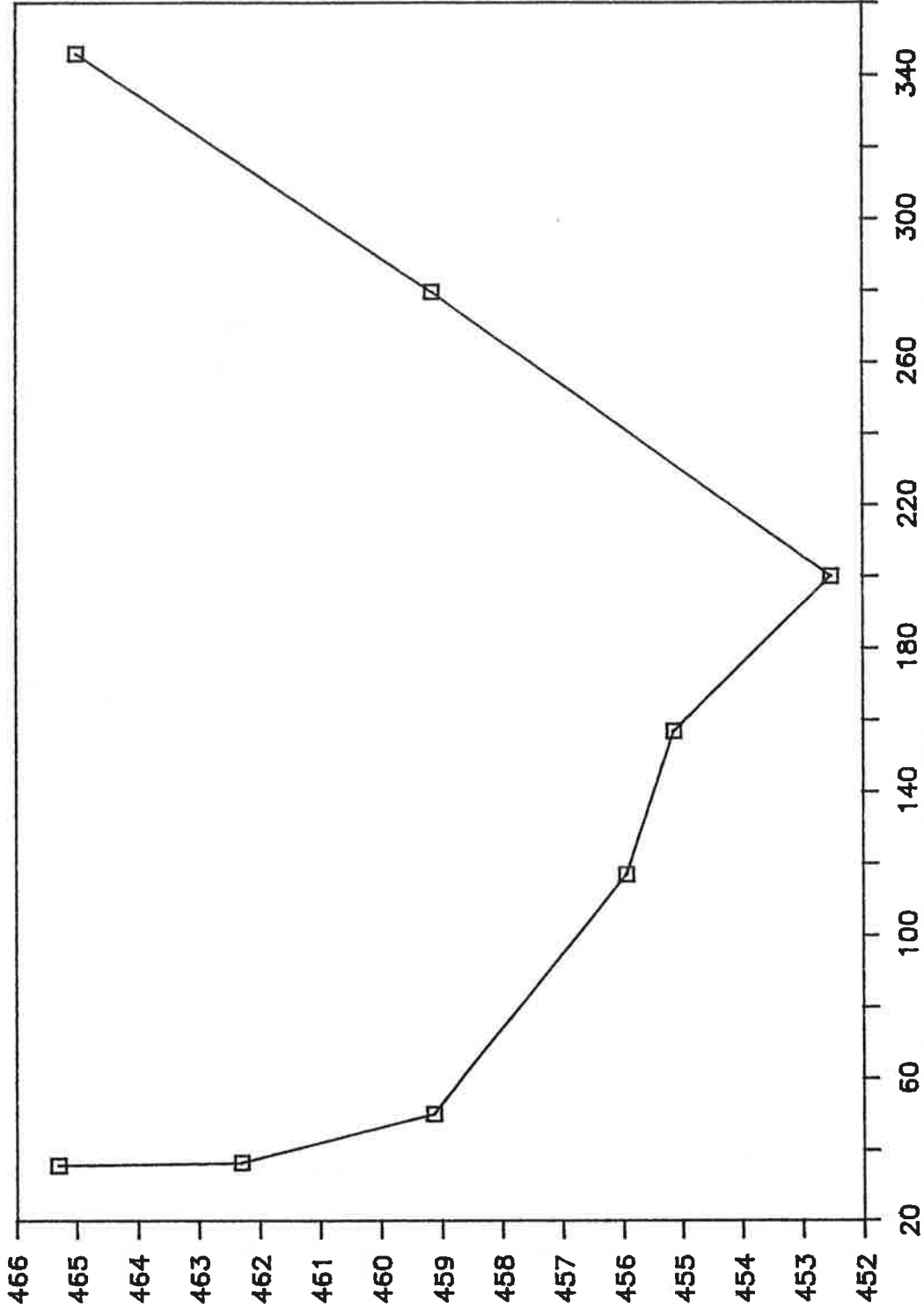


Cross Section X3

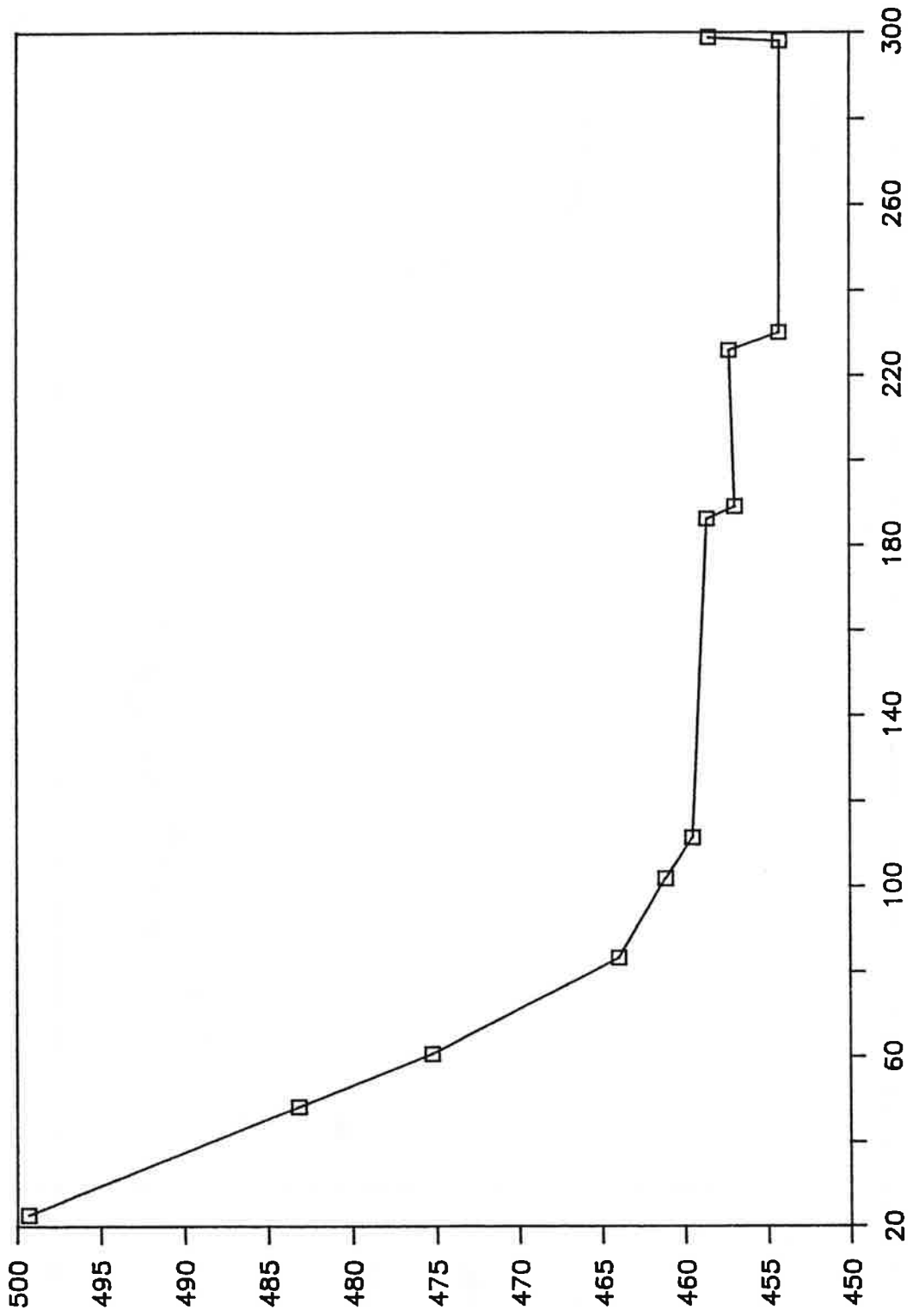
Paw Paw Boat Ramp



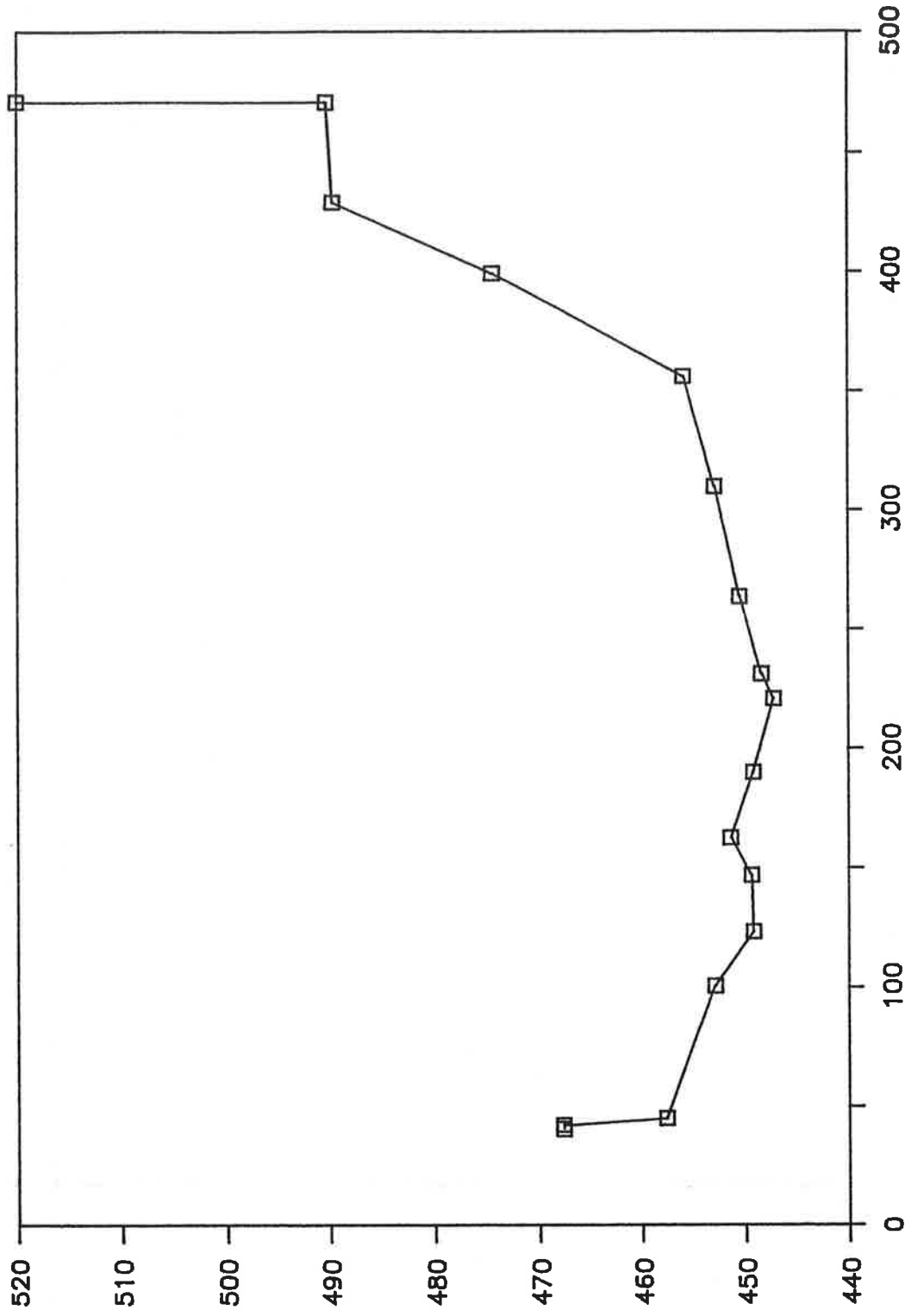
Cross Section X4



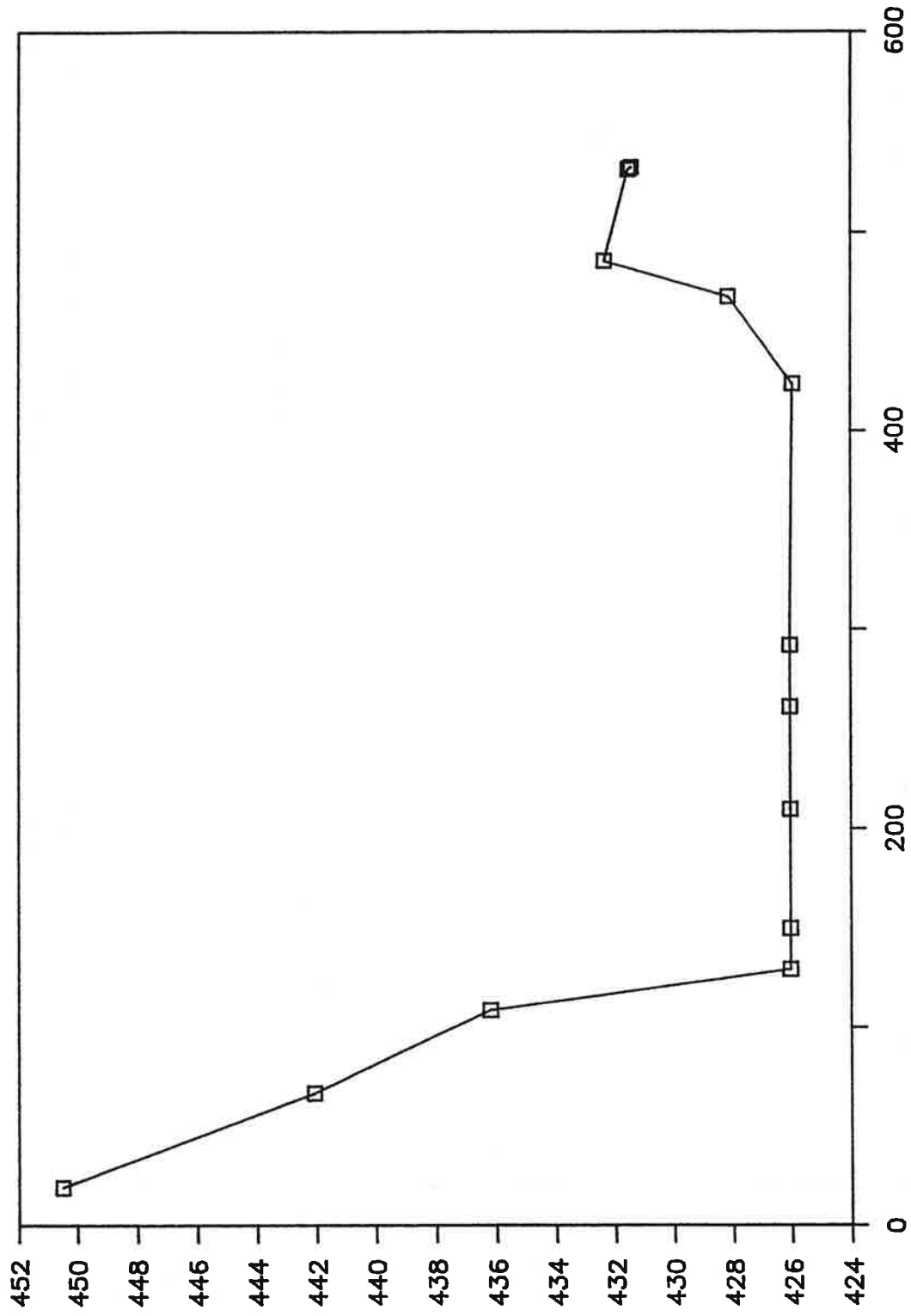
Cross Section X5



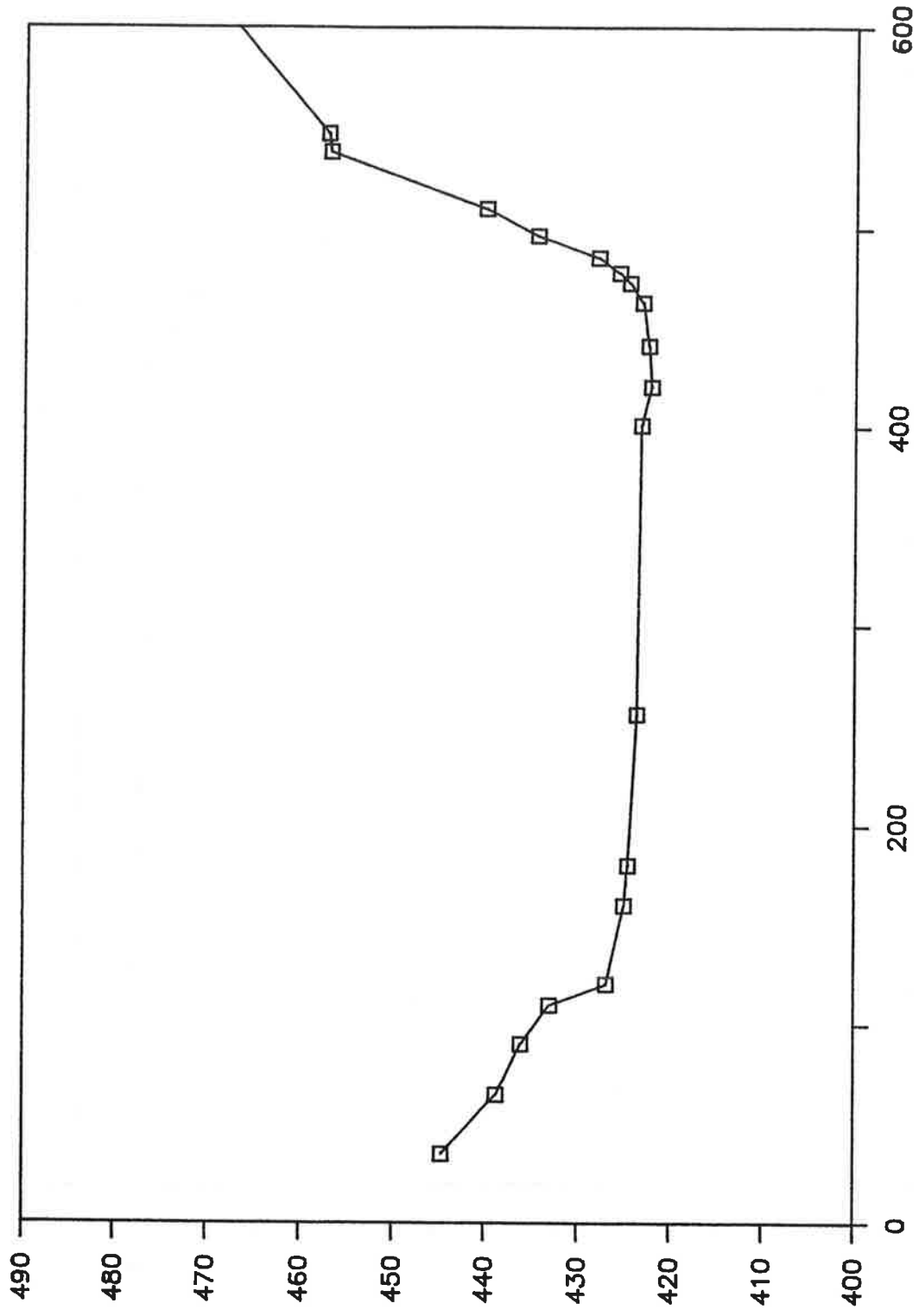
Cross Section X6



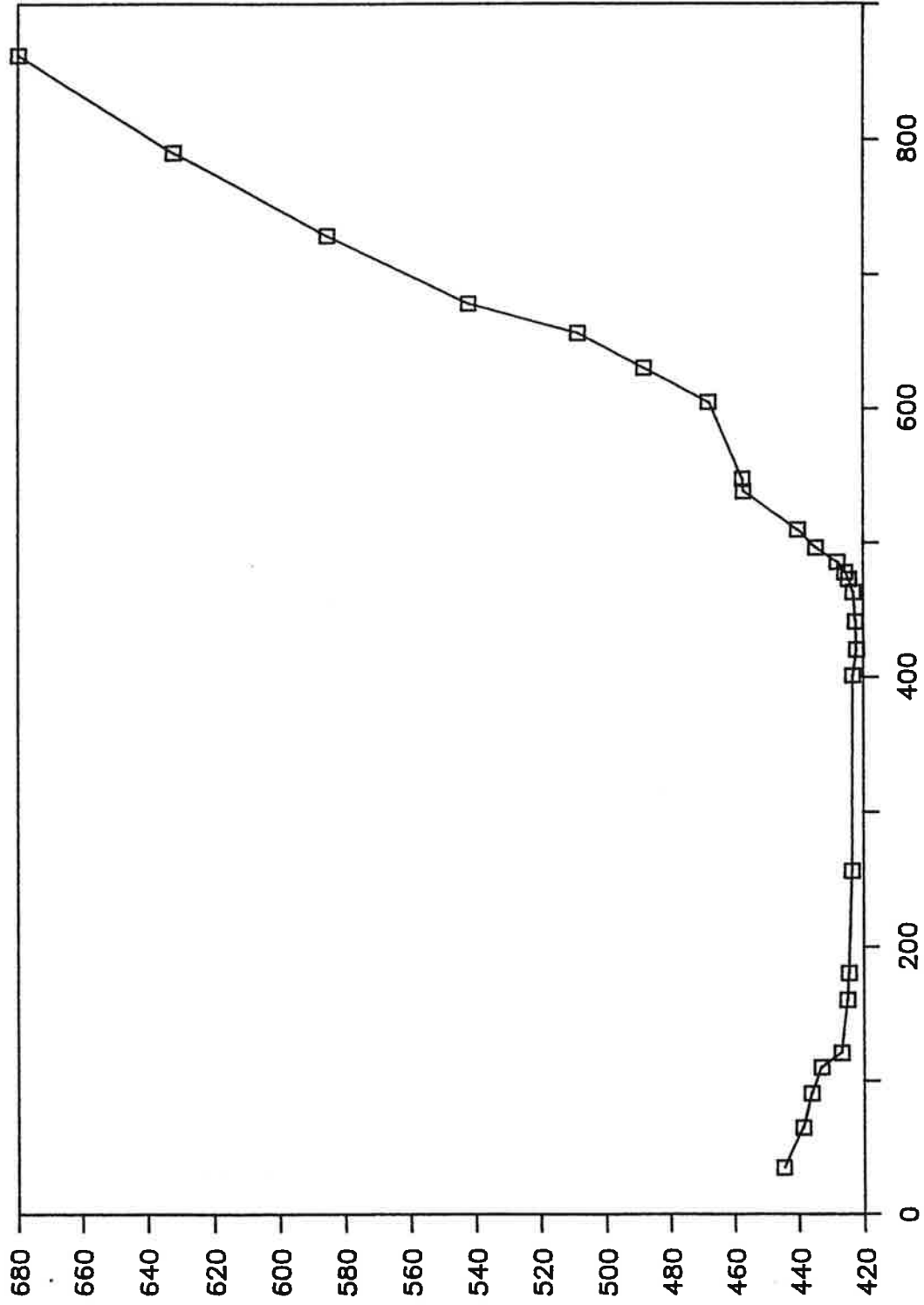
Cross Section X7



Cross Section X8a

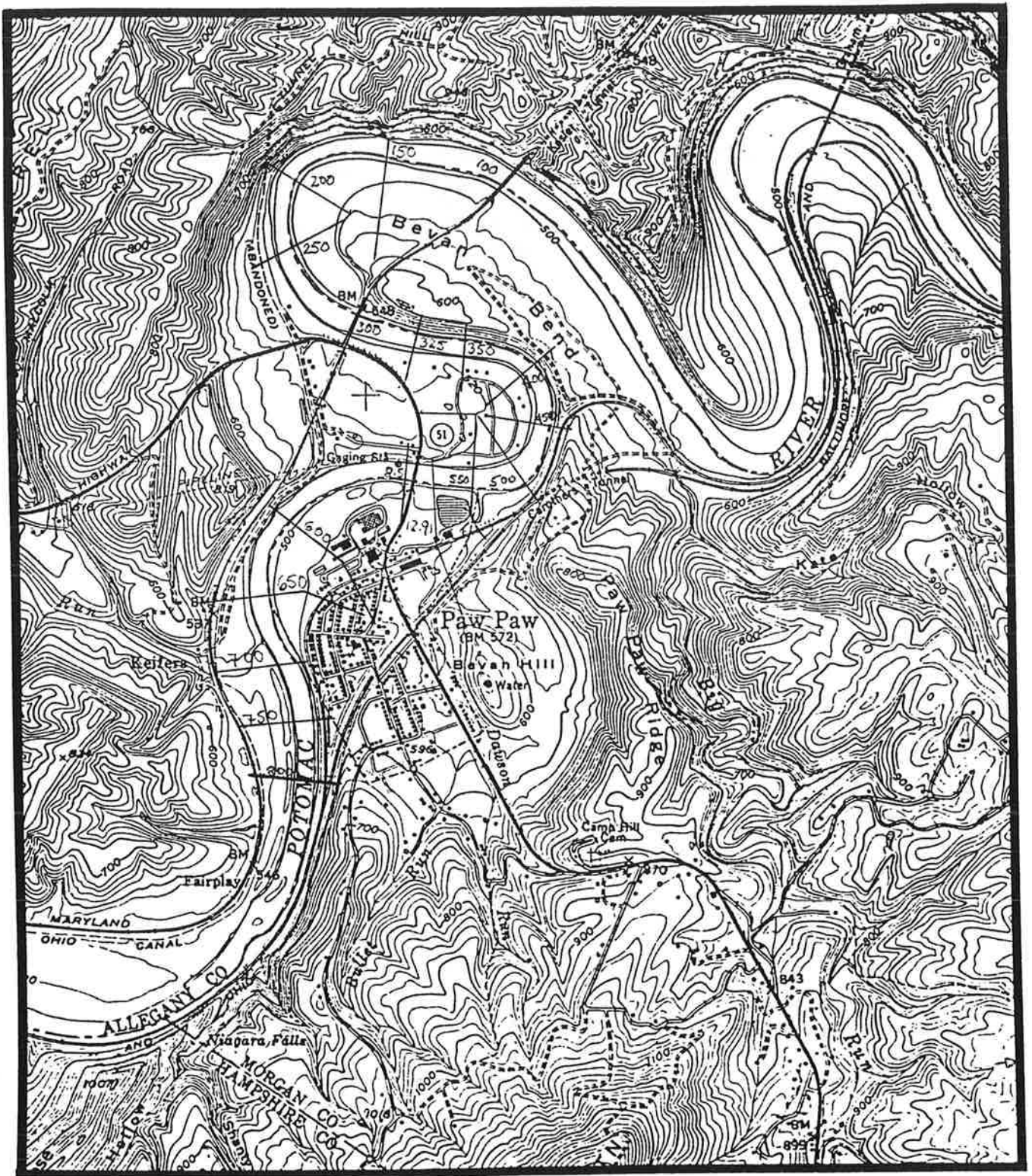


Cross Section X8



Cross Sections 100 through 800 and 8.50 through 12.91

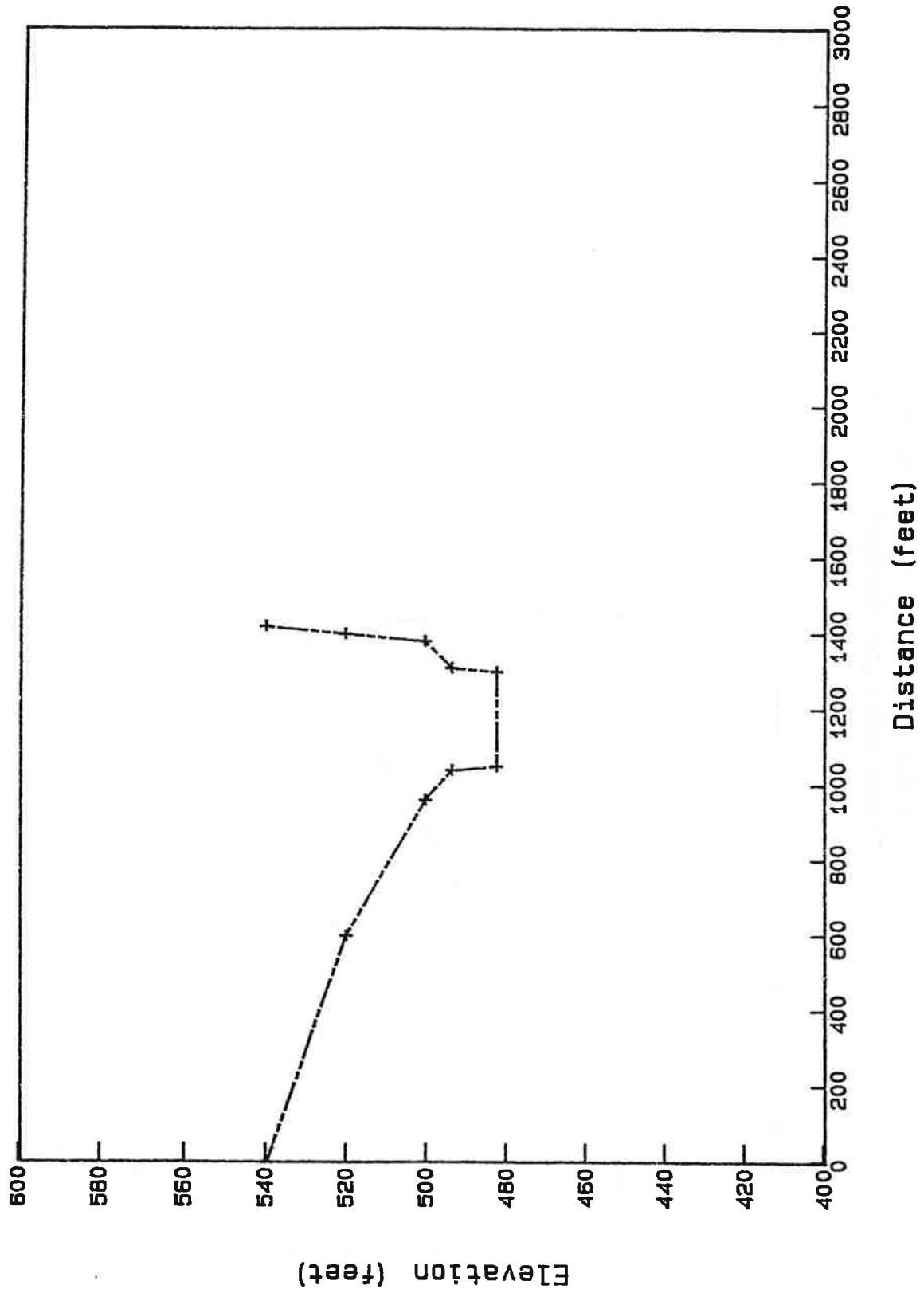
These transects, prepared by Bernard Johnson Inc., were used in the hydraulic evaluation to the redesigned Rt. 51 bridge. Cross sections 100 through 800 do not include detailed channel surveys, but are restricted to the floodplain and river valley. Cross sections 8.5 through 12.91 are detailed transects of both the flood plain and the channel in the immediate vicinity of the Rt. 51 bridge. The locations of these transects is shown on Paw Paw location map 2.



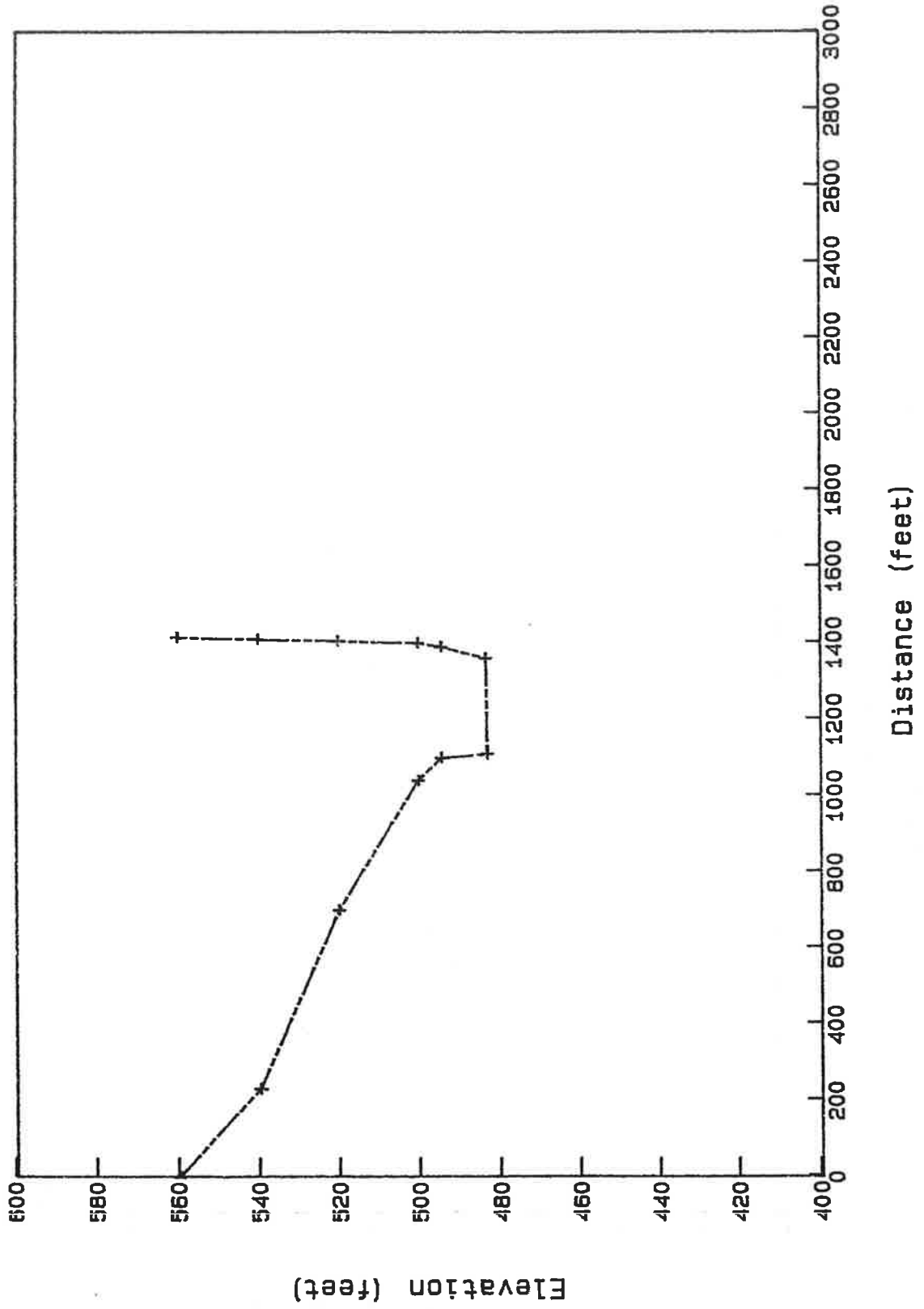
Location Map Paw Paw W.V.

Map 2

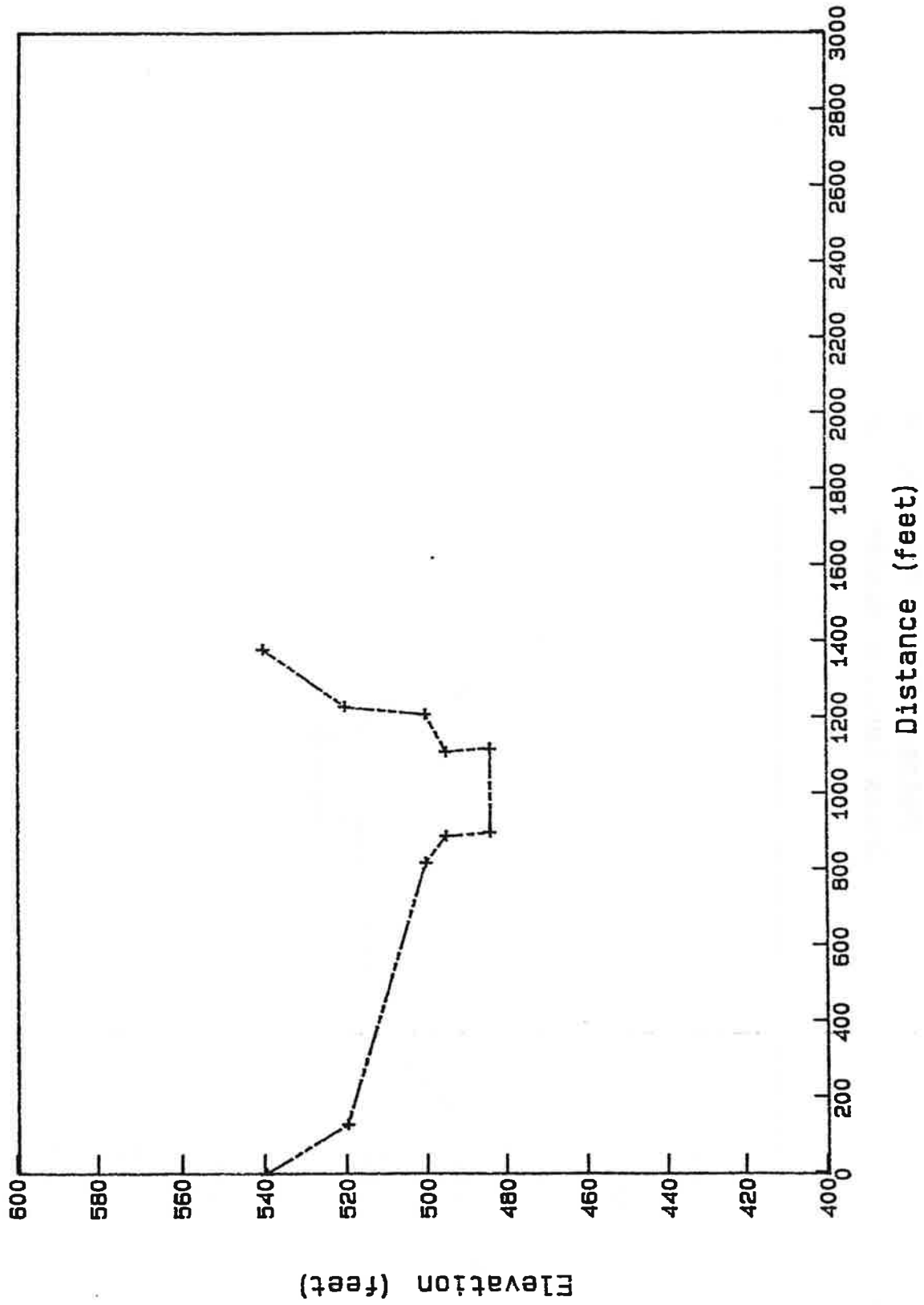
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Cross Section Number 100.00



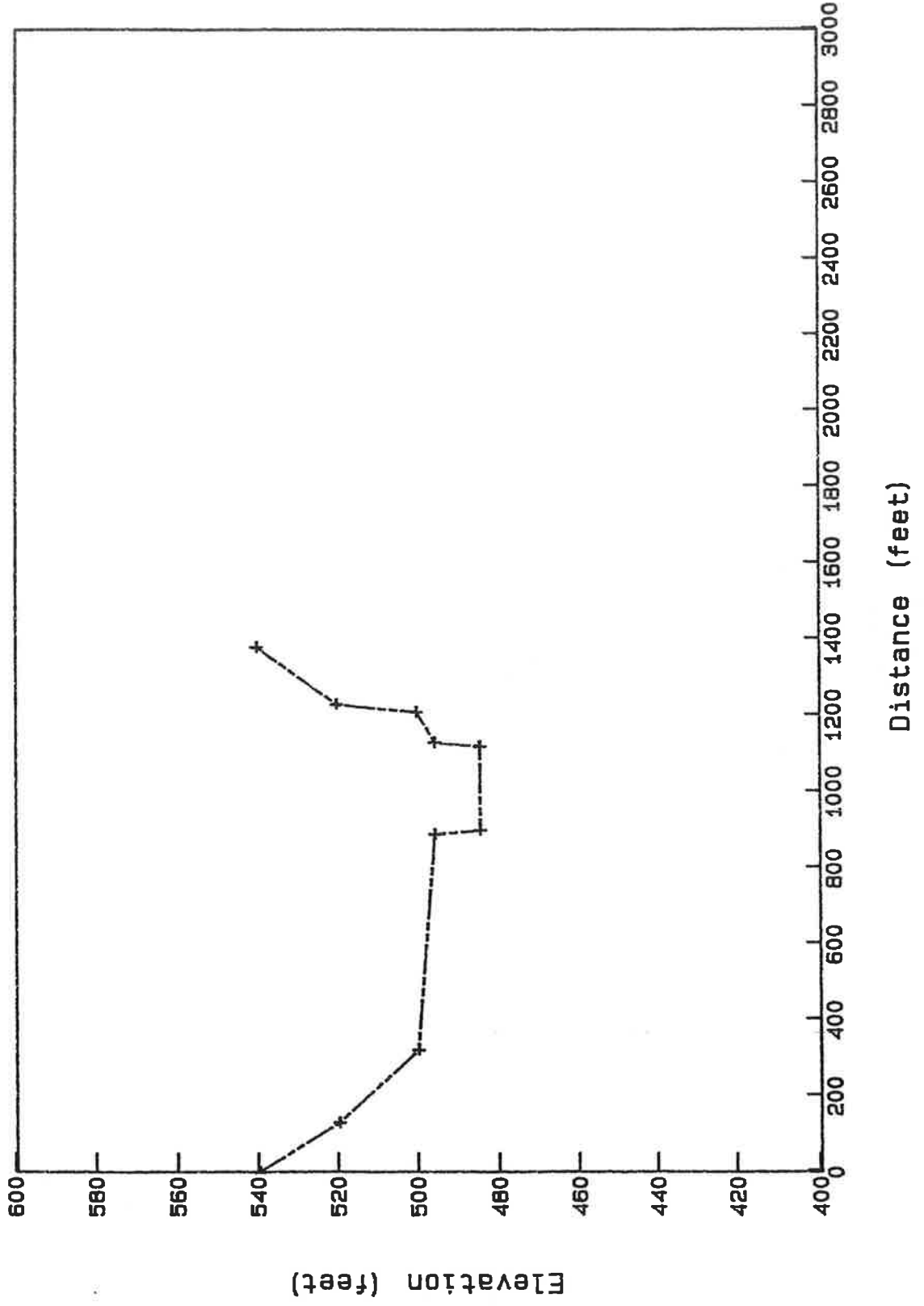
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Cross Section Number 150.00



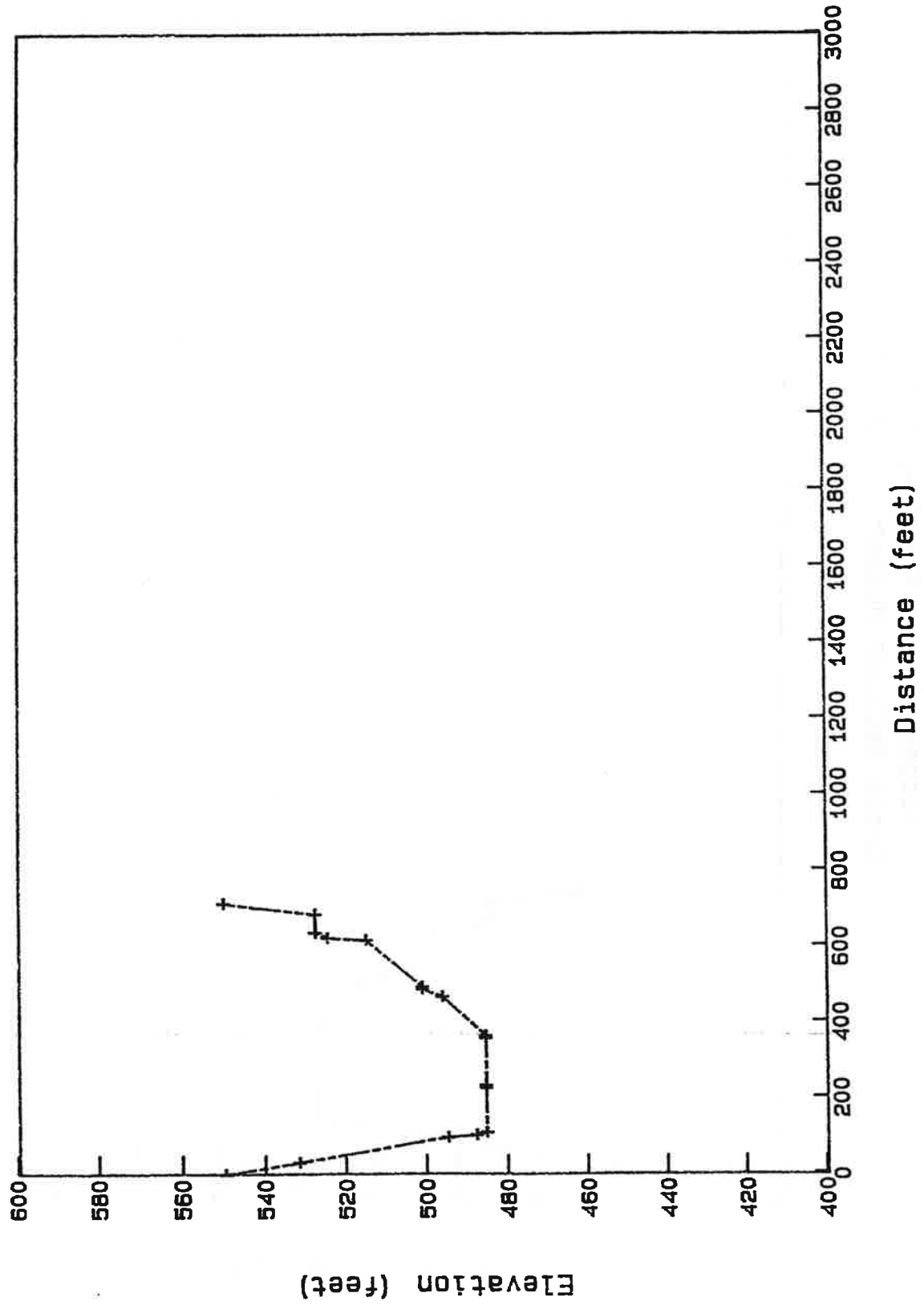
Potomac River Paw Paw, W.V.
Cross Section Number 200.00



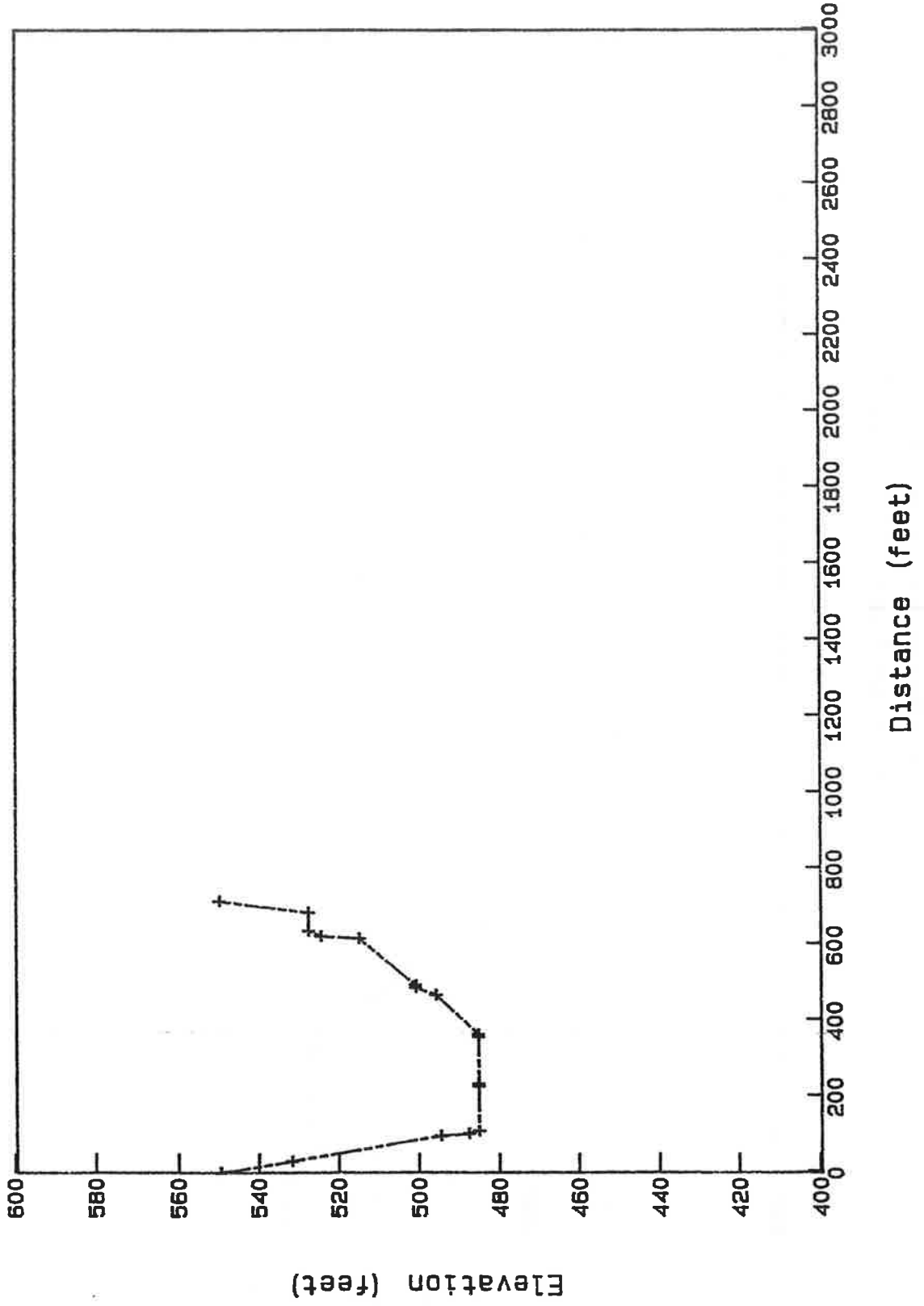
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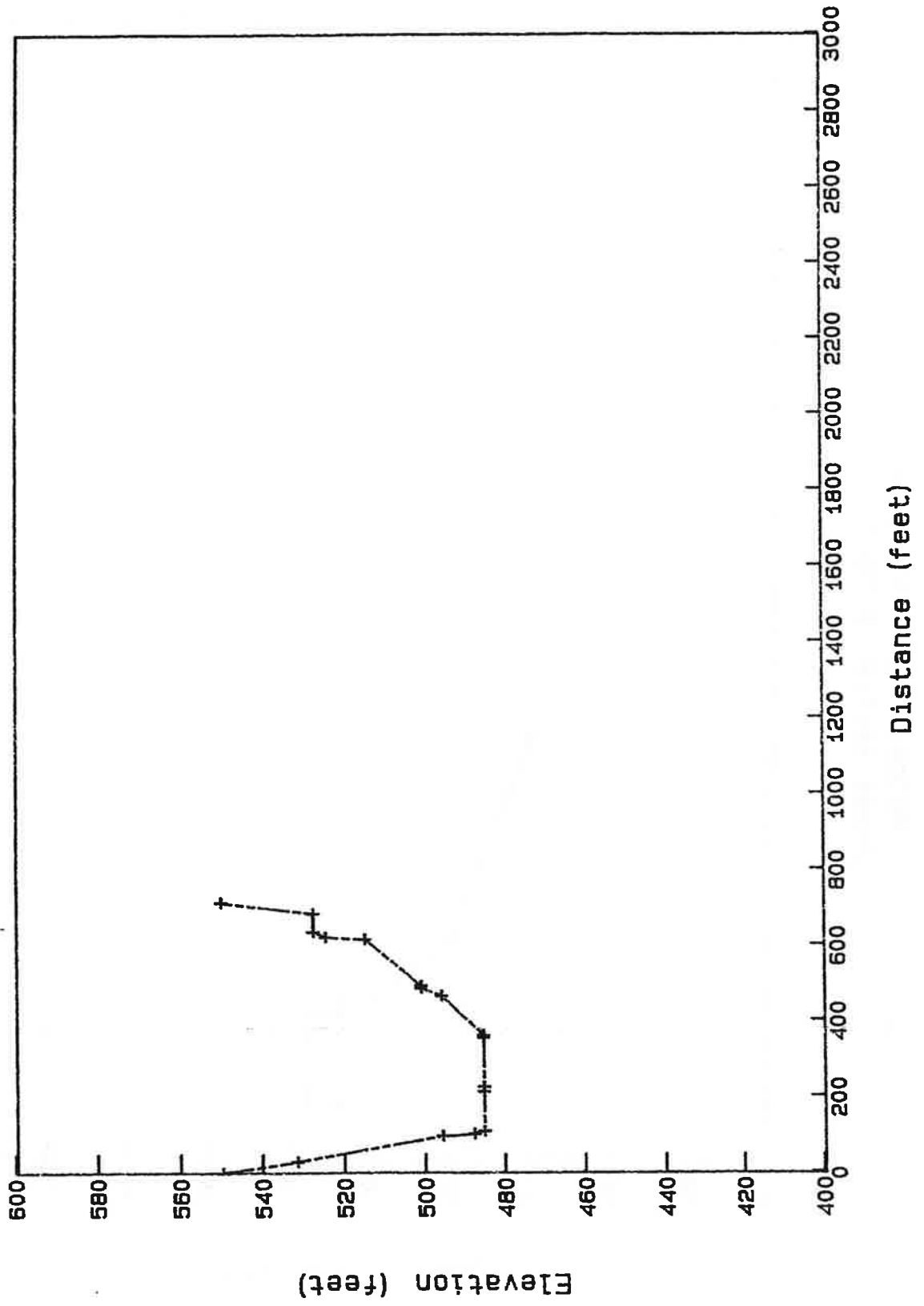
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Cross Section Number 300.01



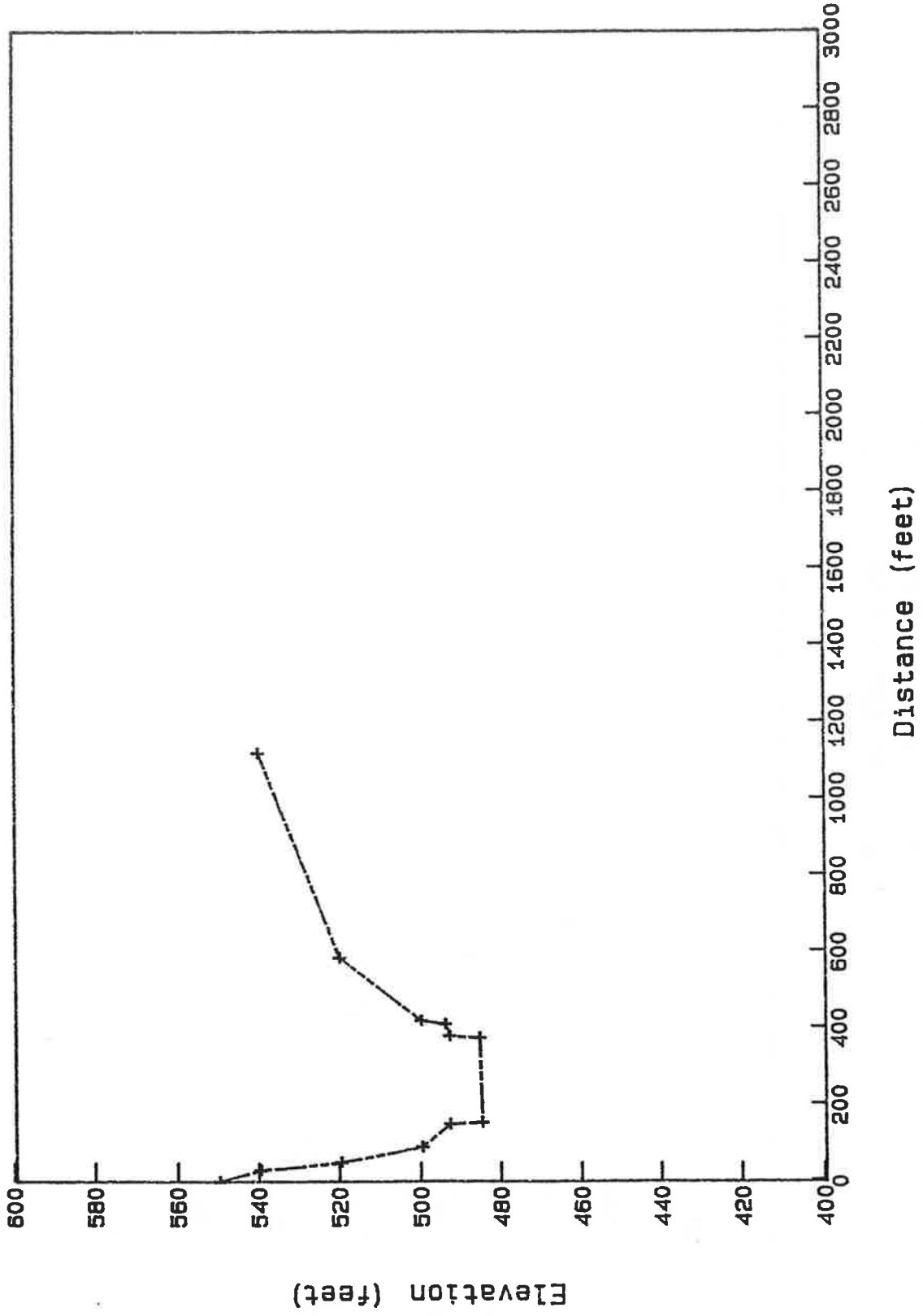
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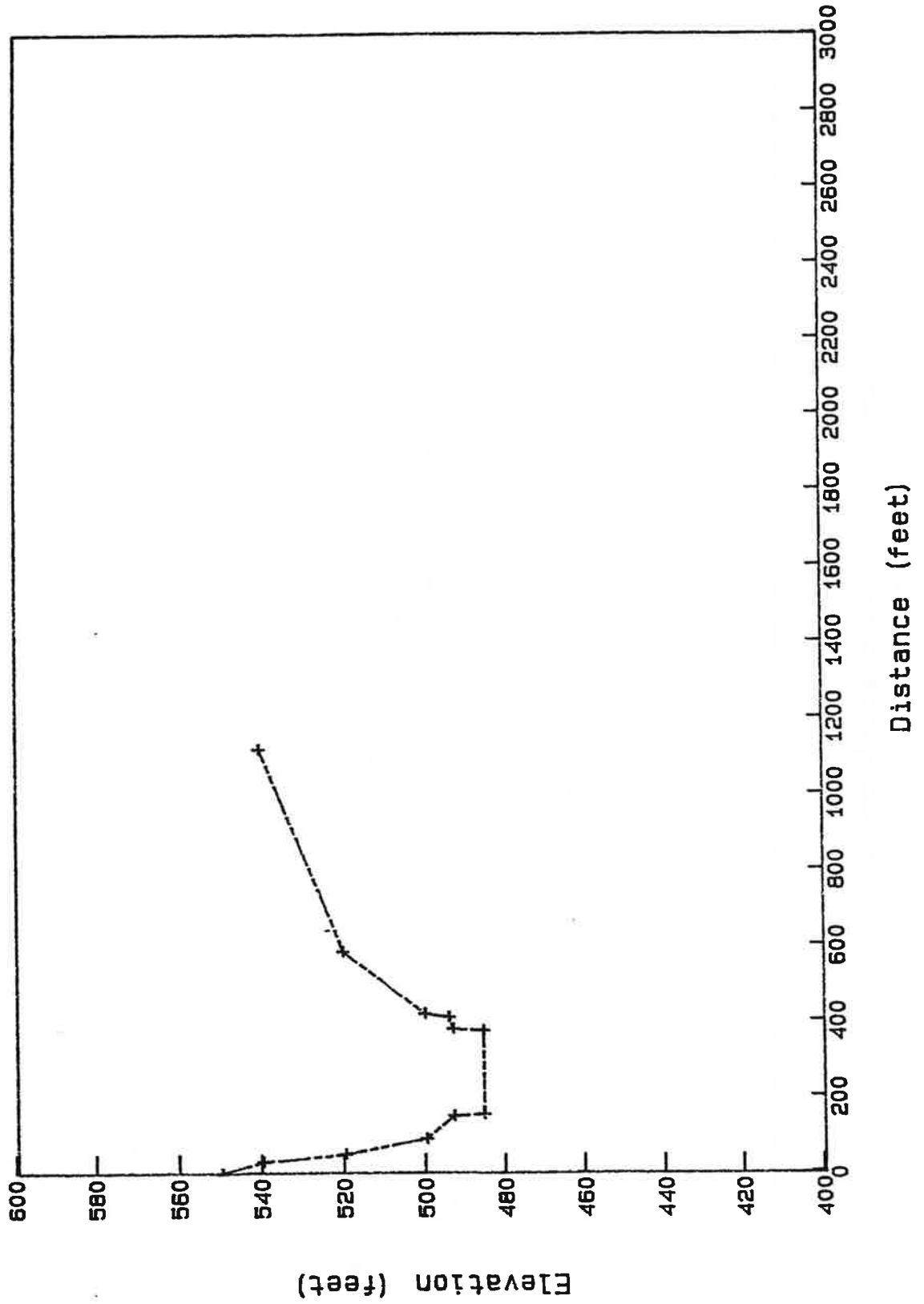
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Cross Section Number 300.03



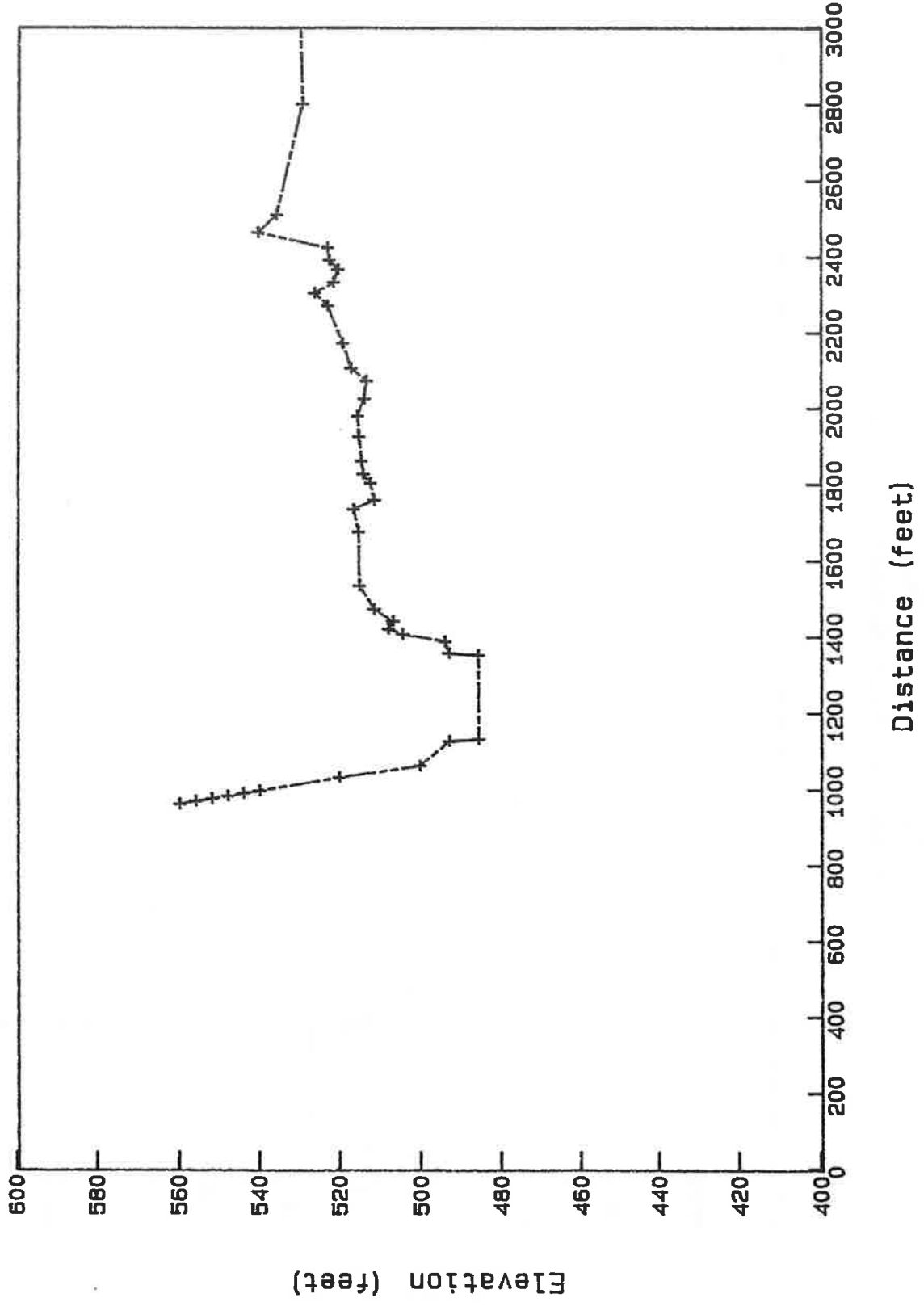
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Cross Section Number 325.00



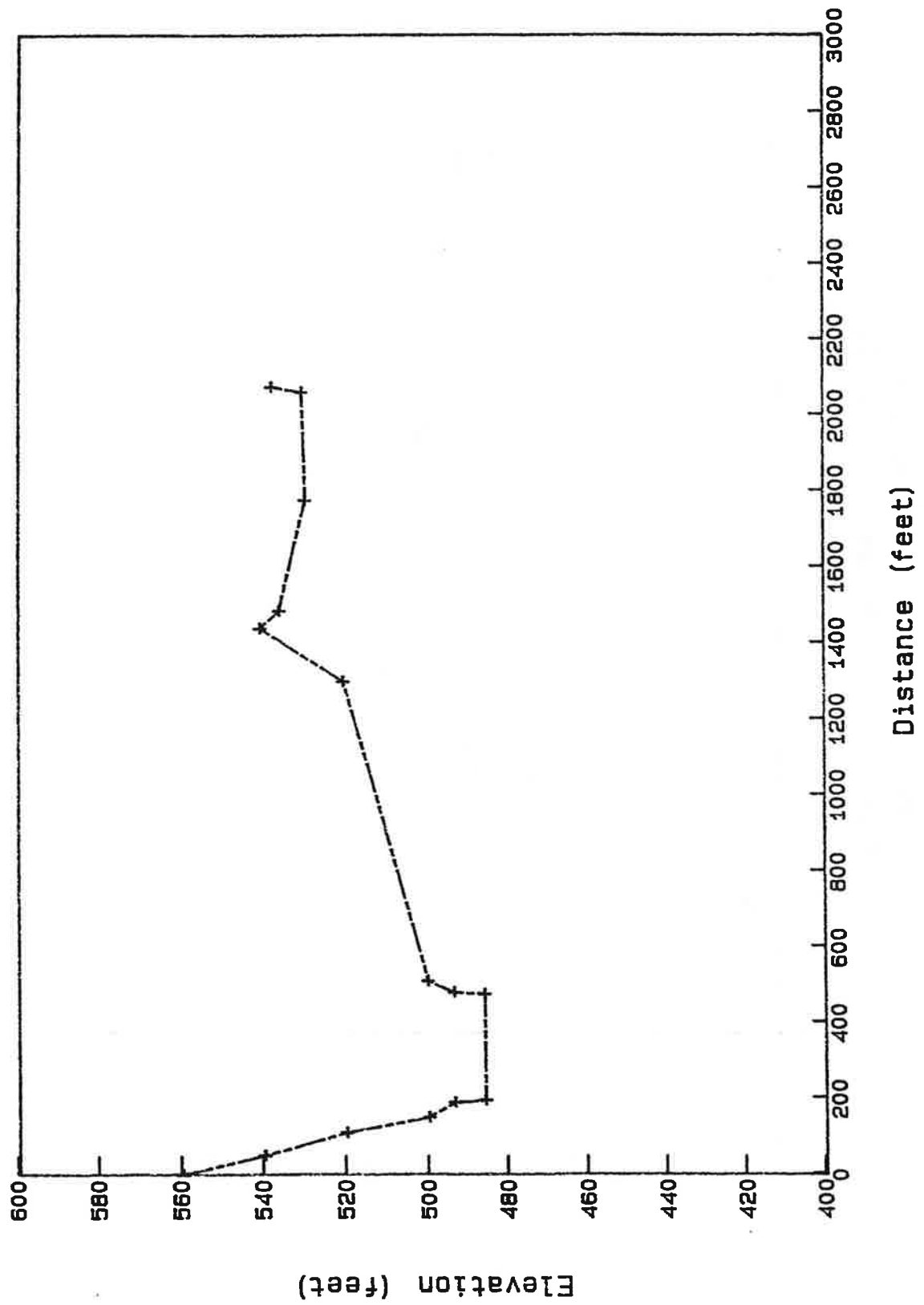
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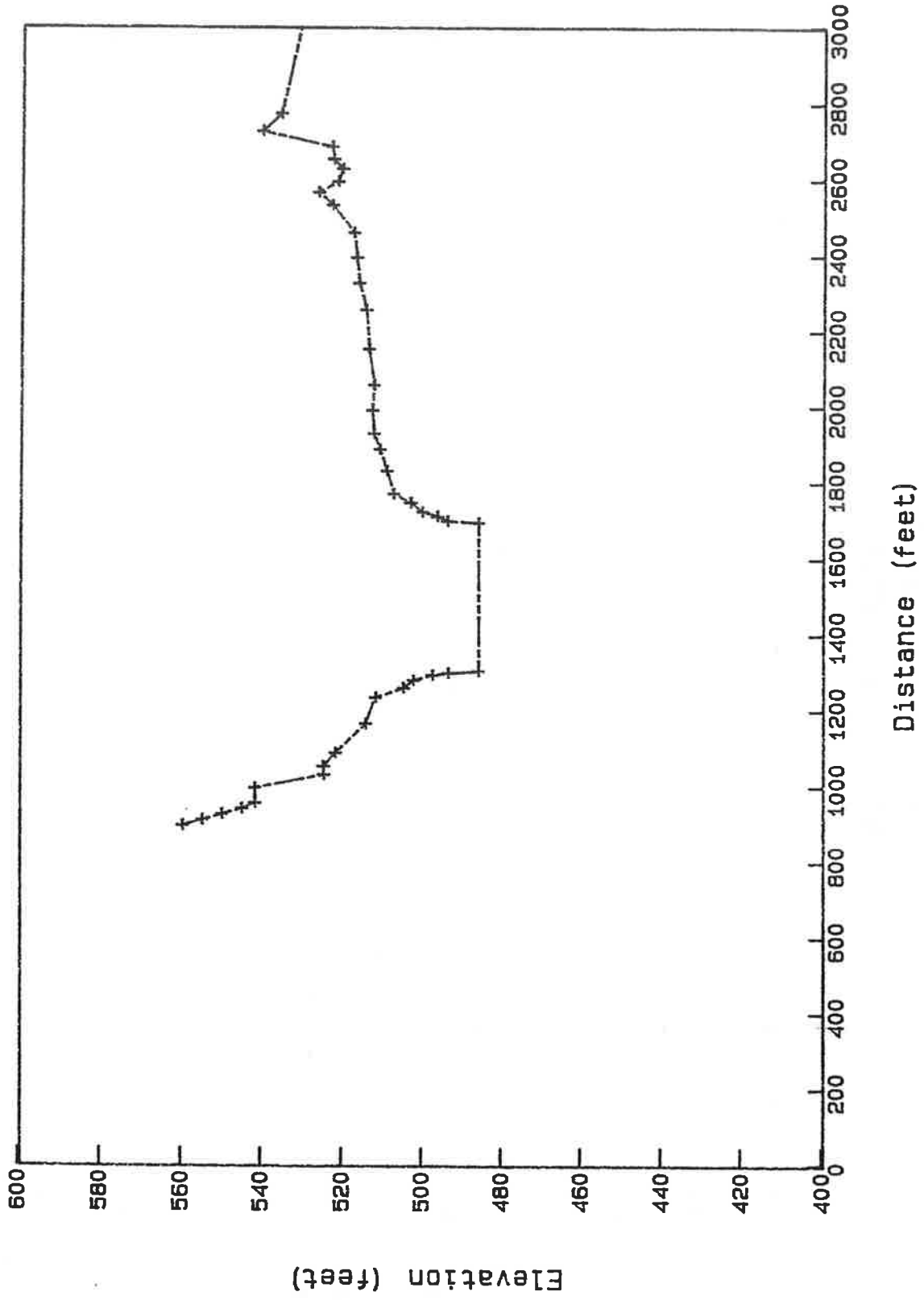
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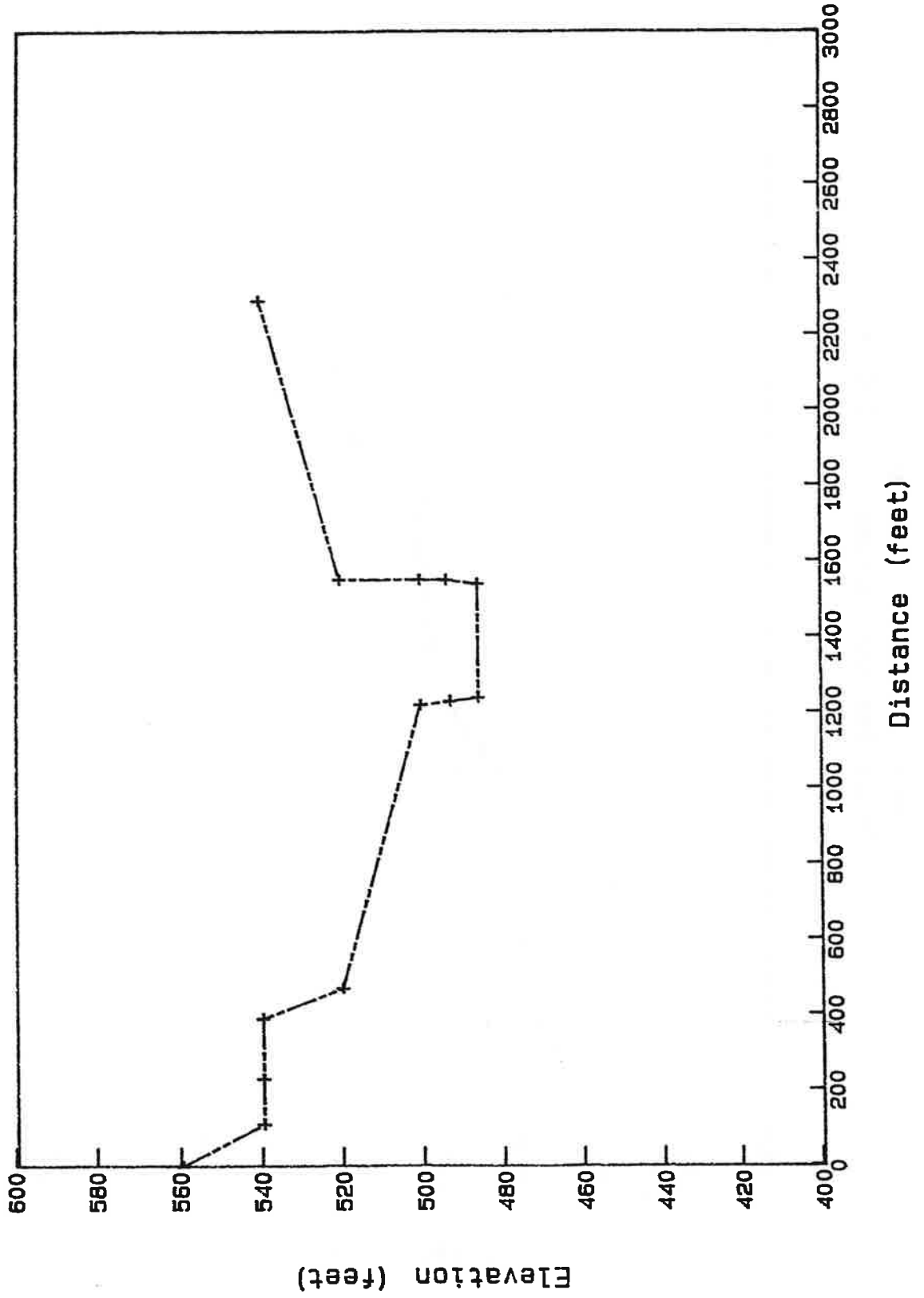
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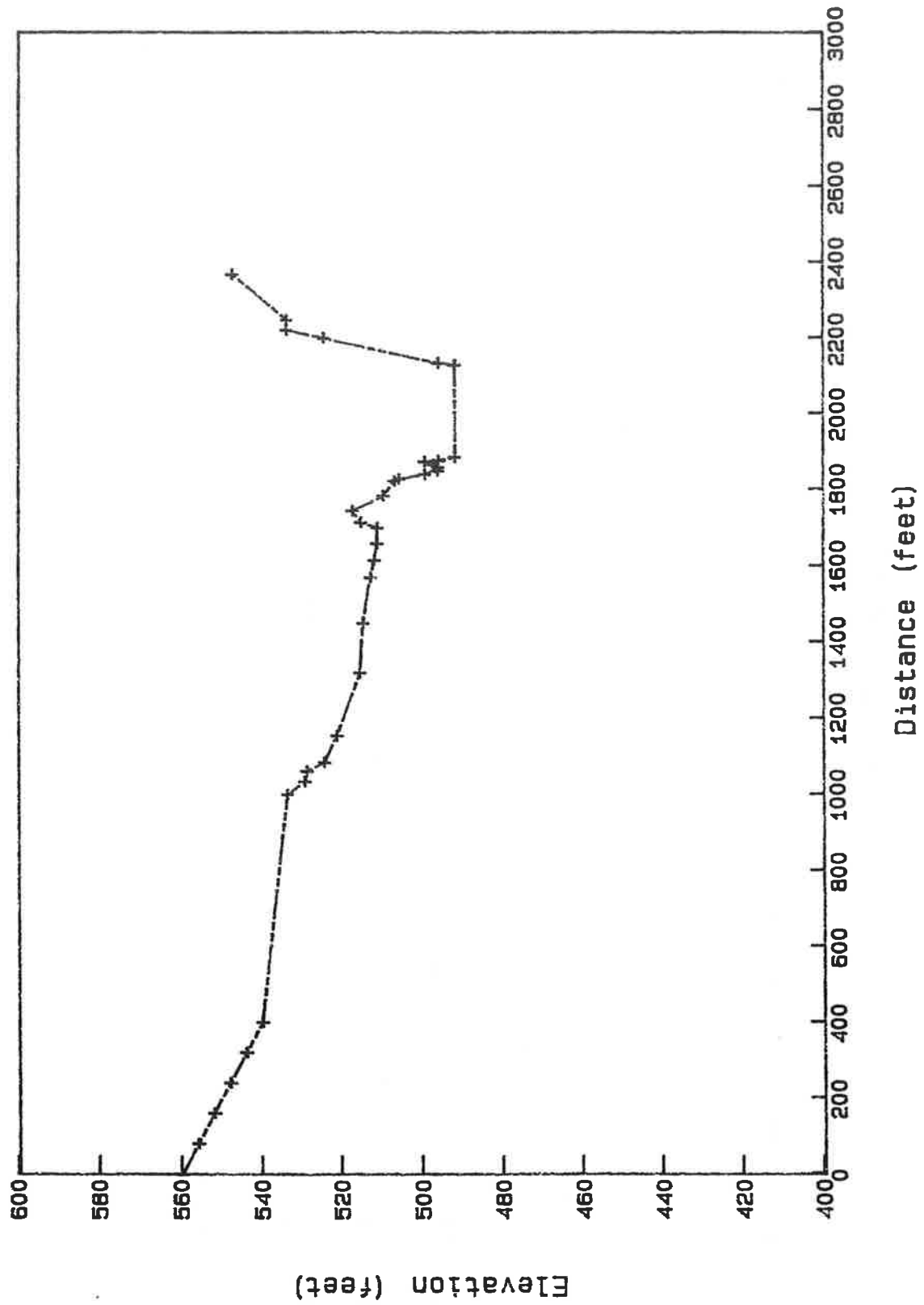
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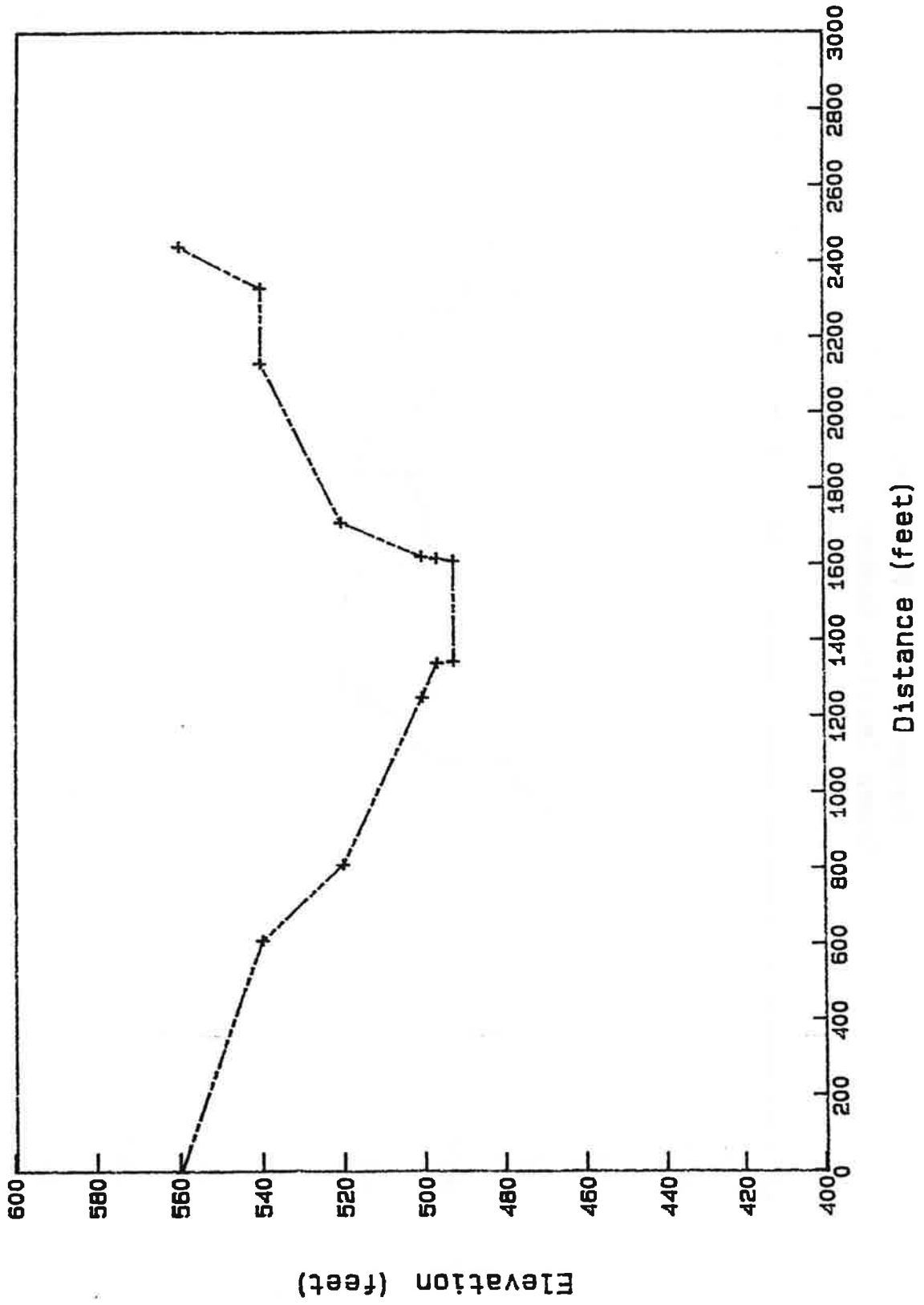
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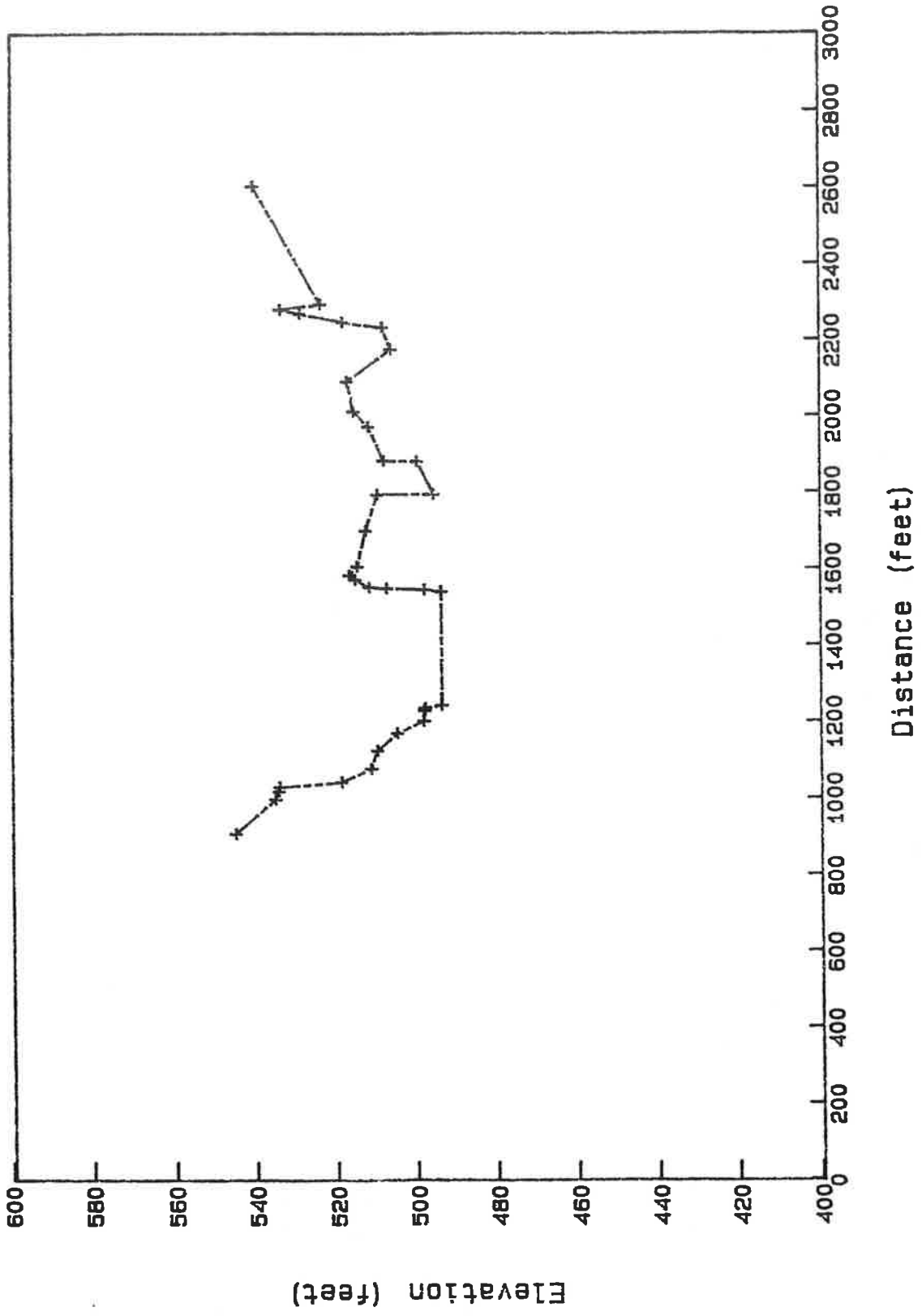
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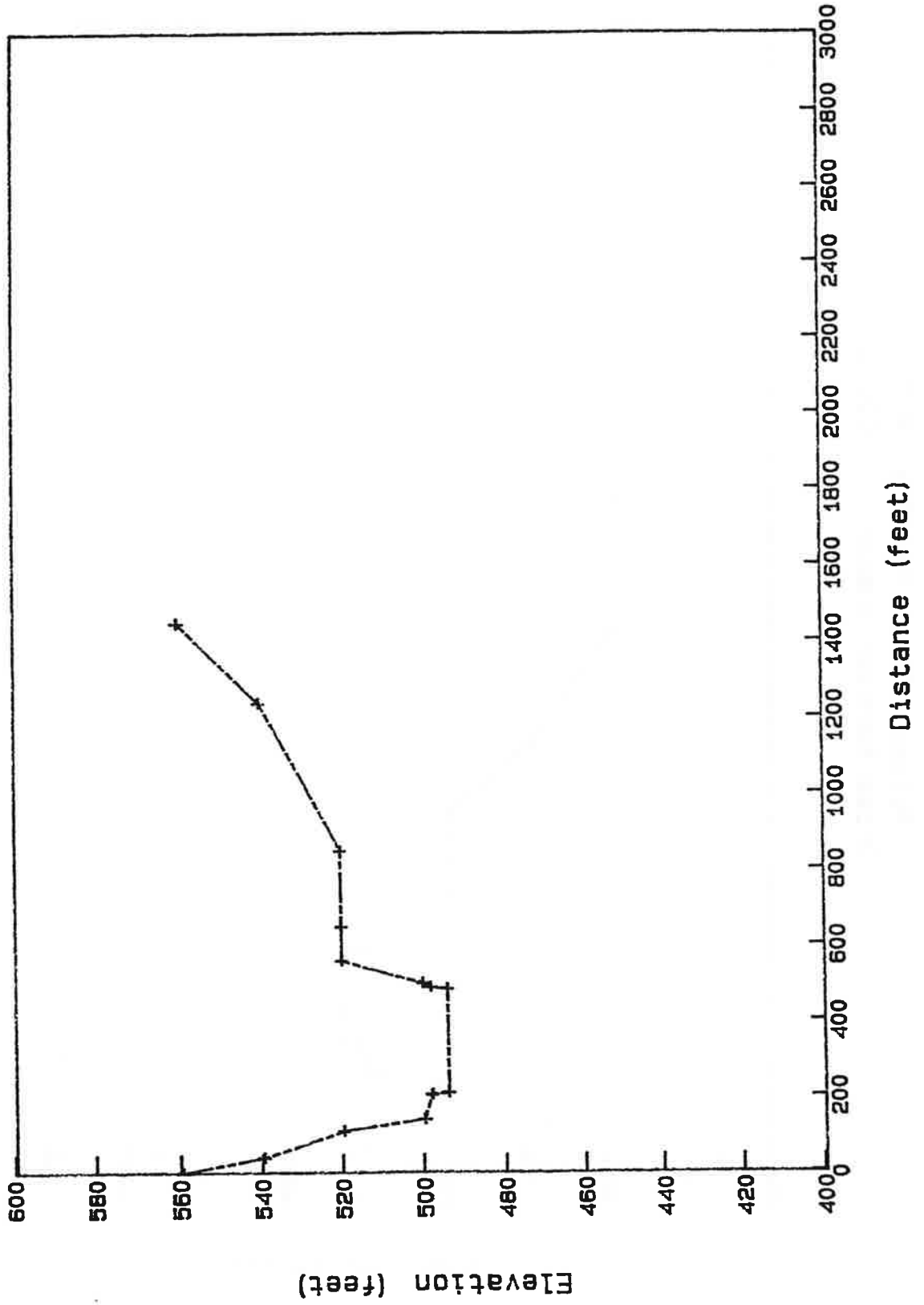
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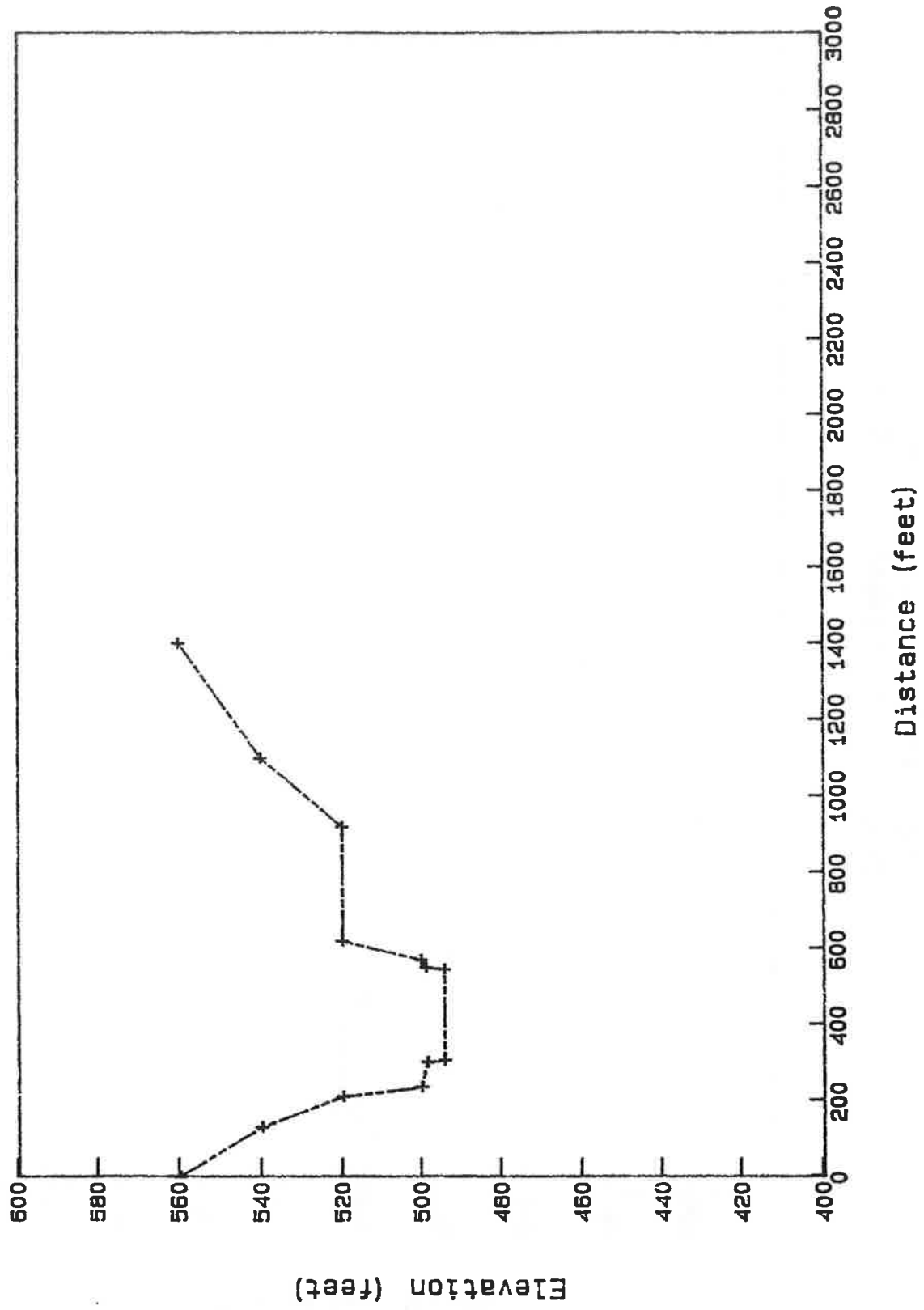
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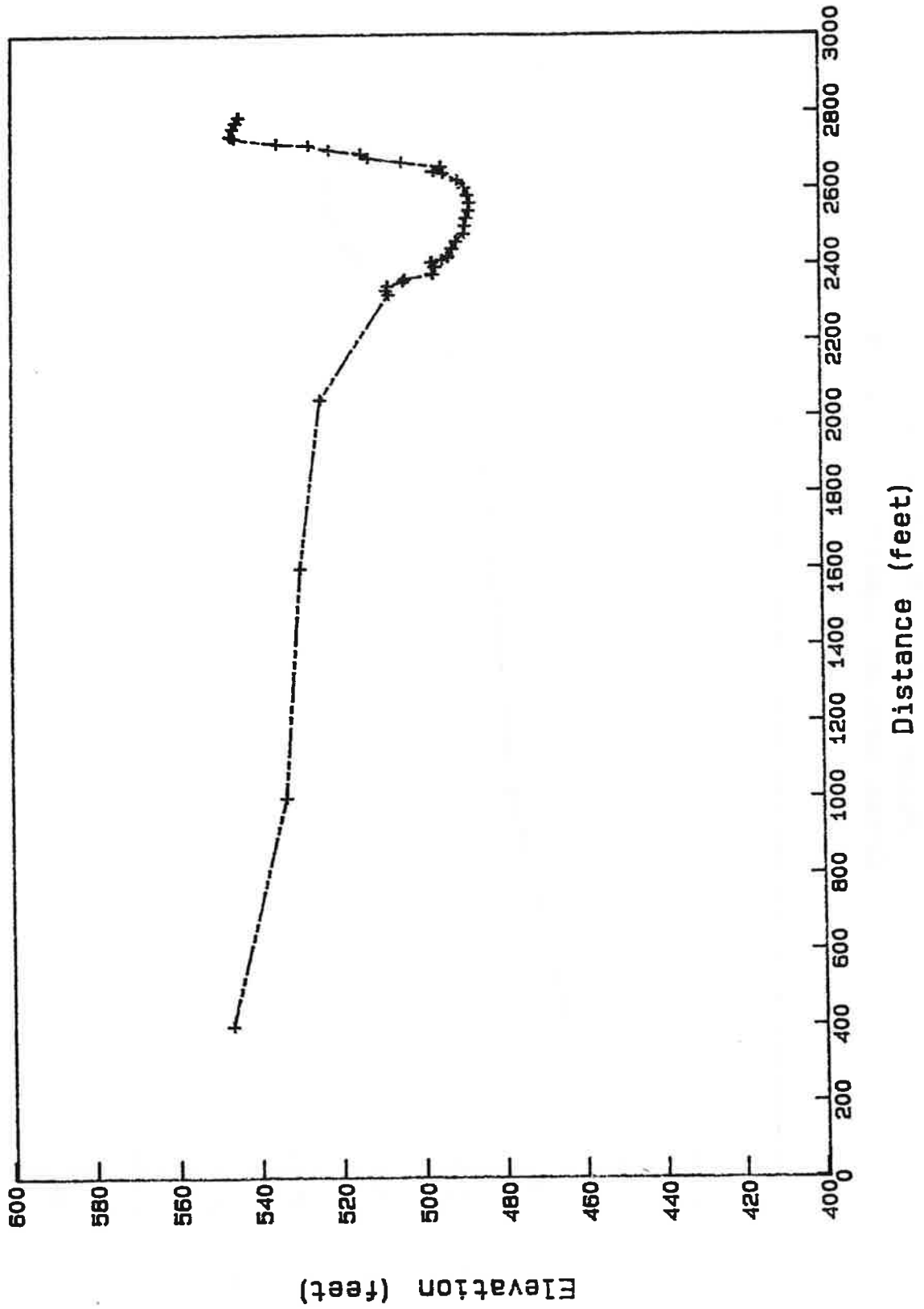
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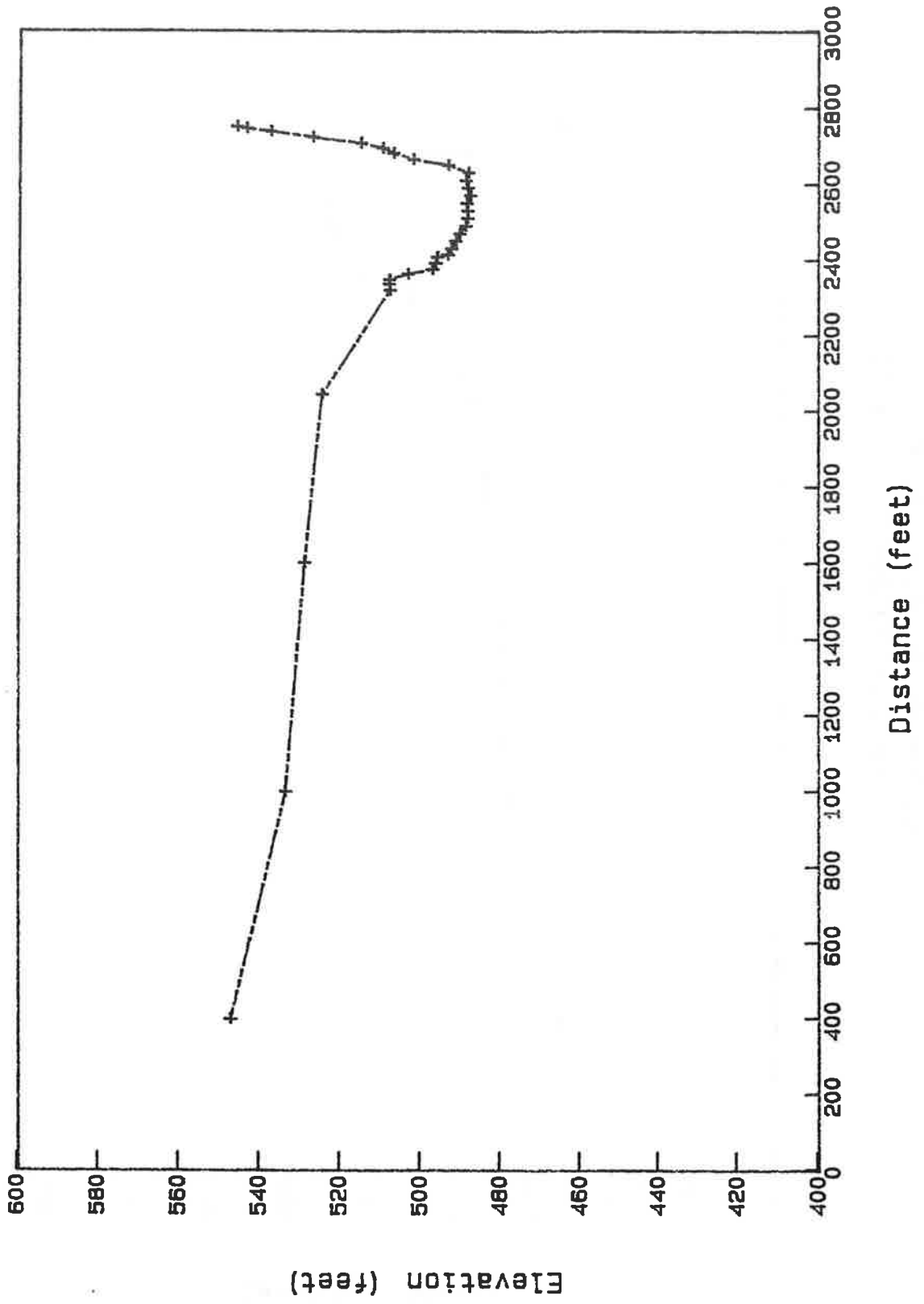
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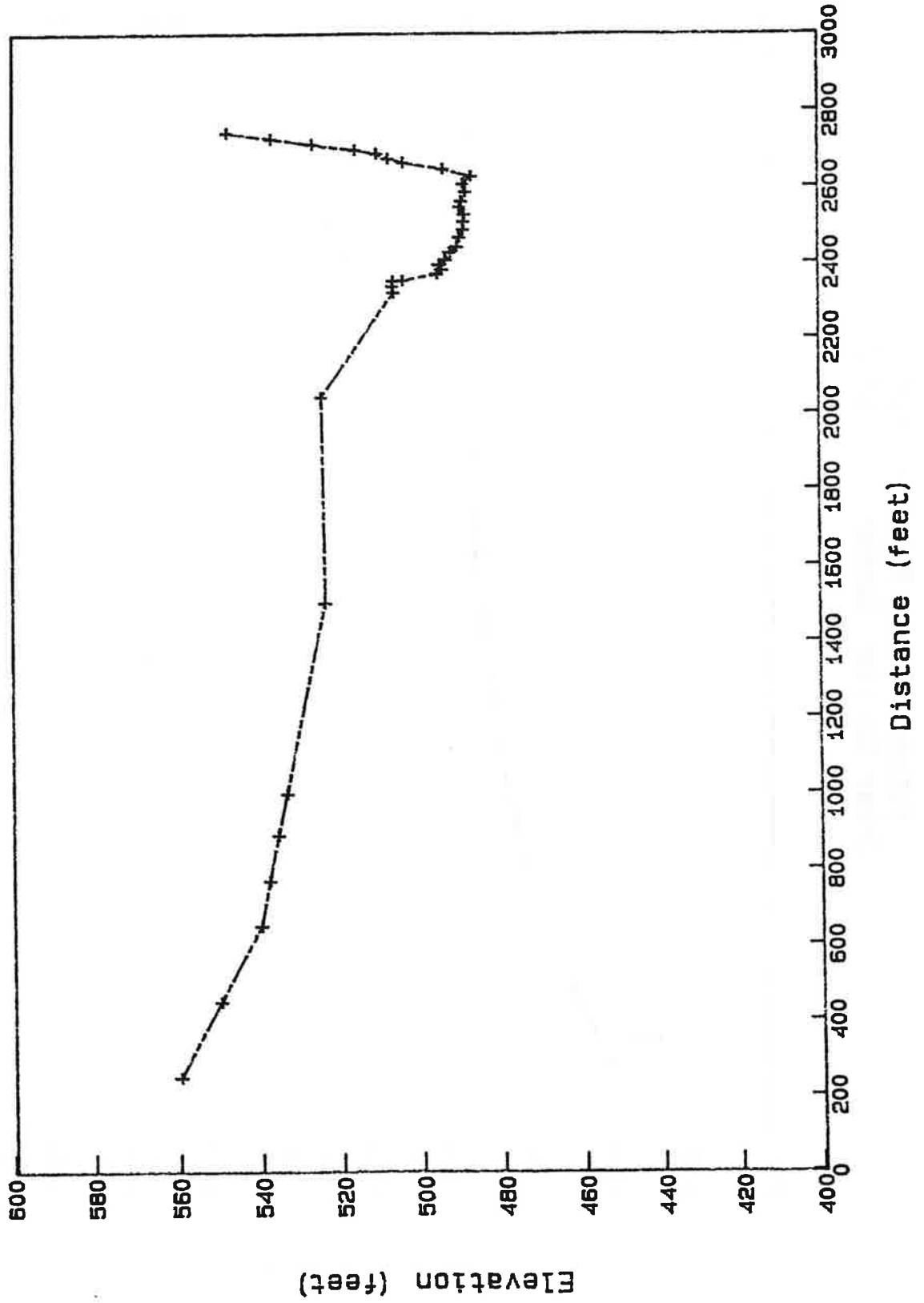
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Cross Section Number 8.50



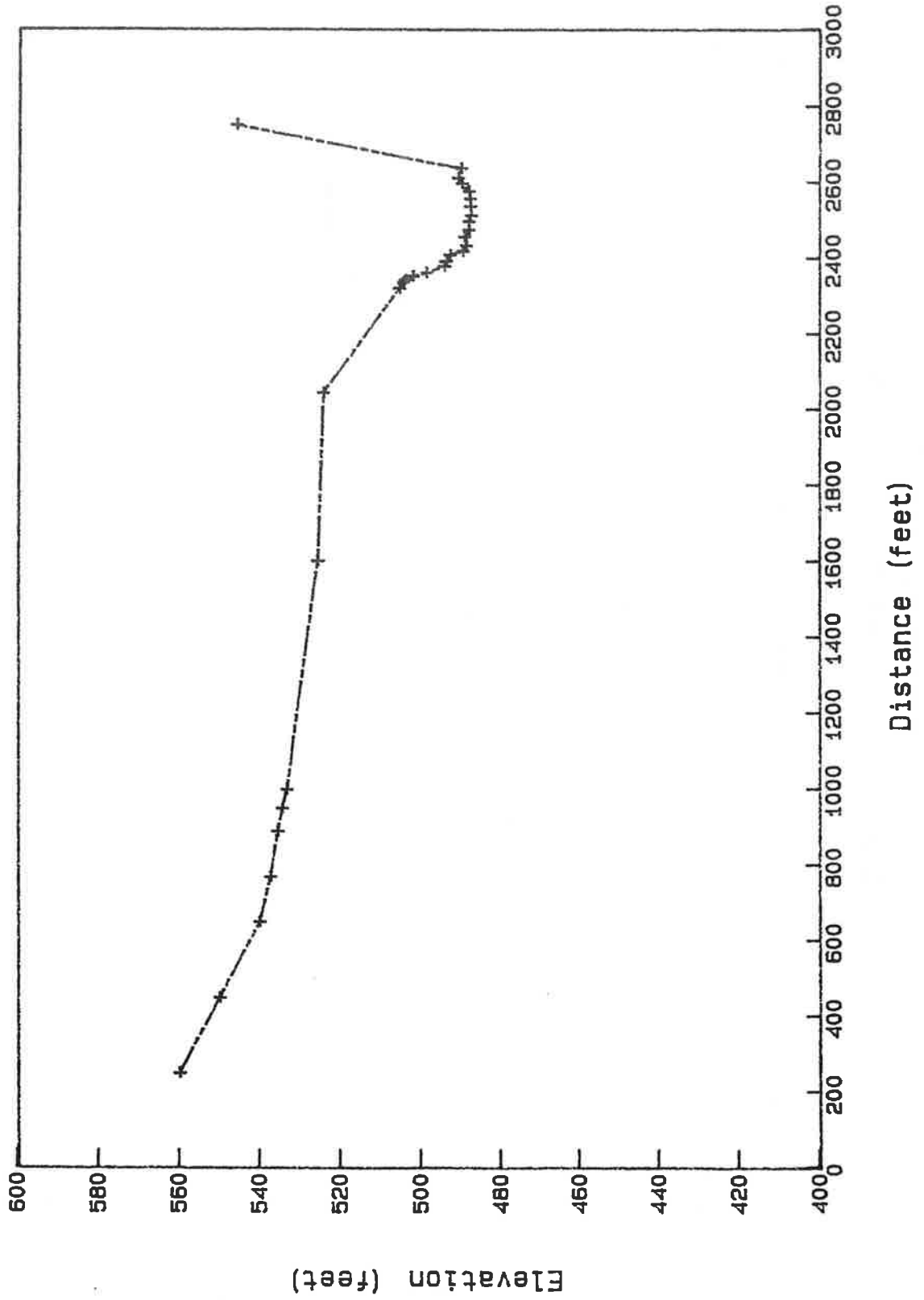
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Cross Section Number 9.00



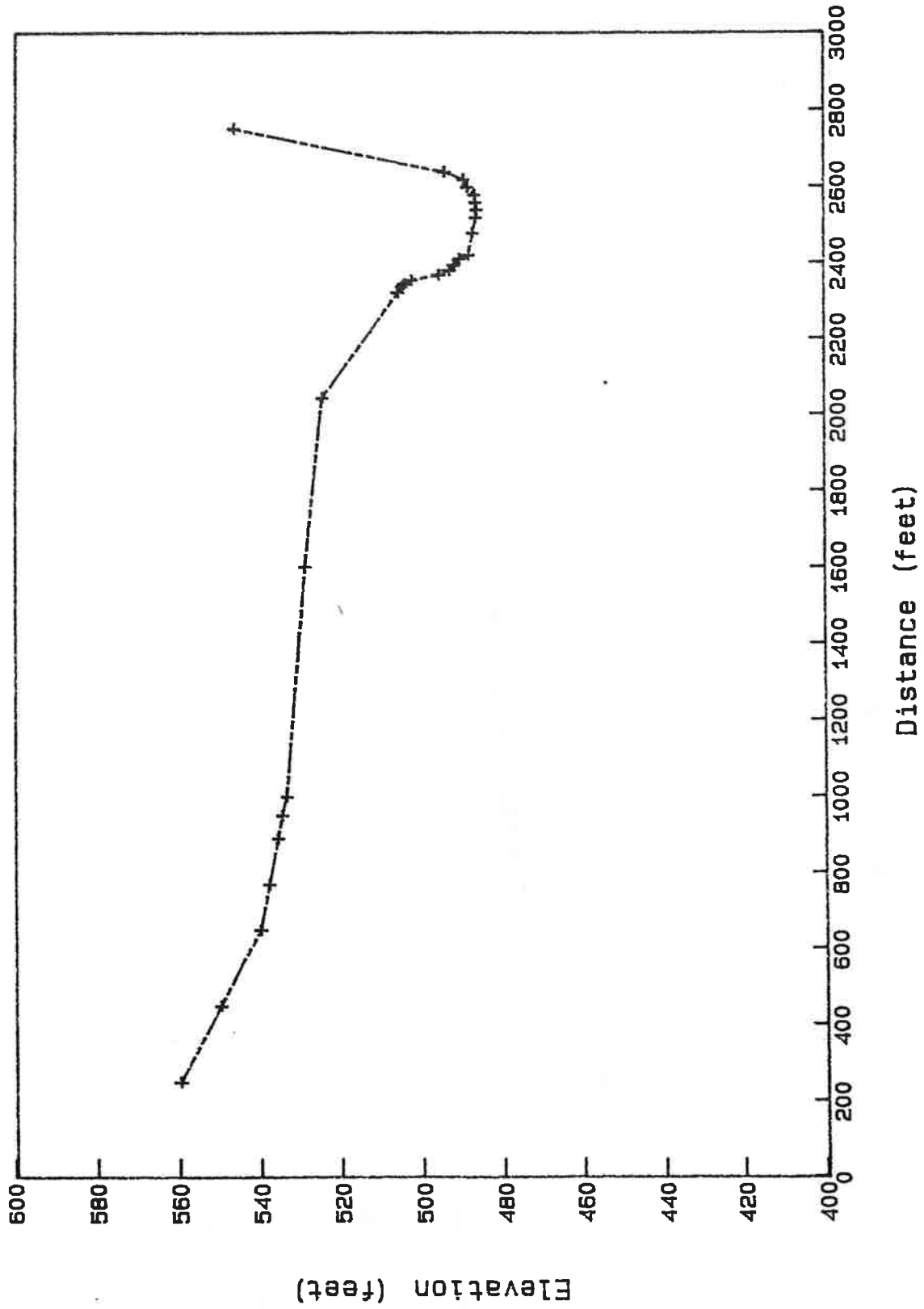
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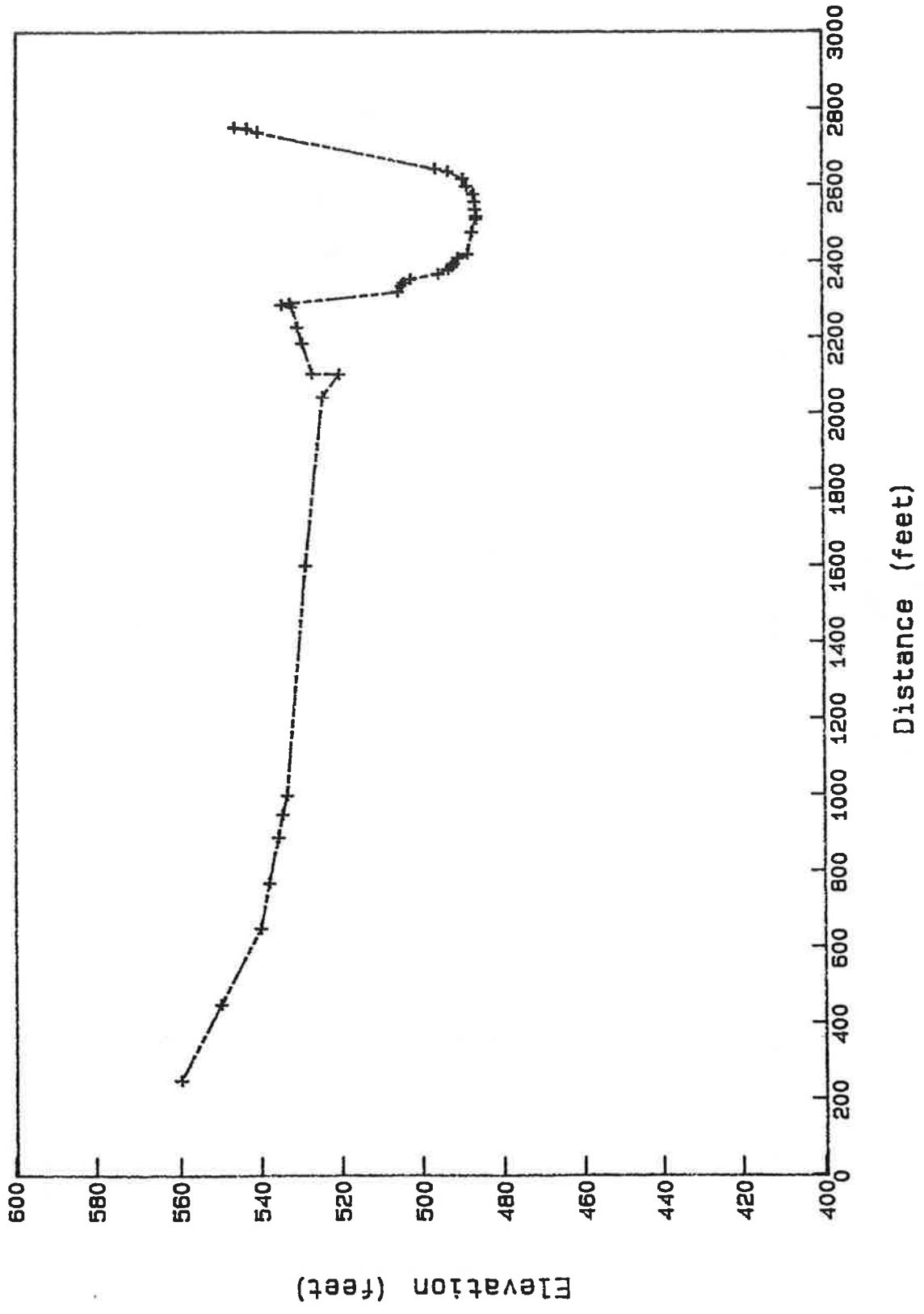
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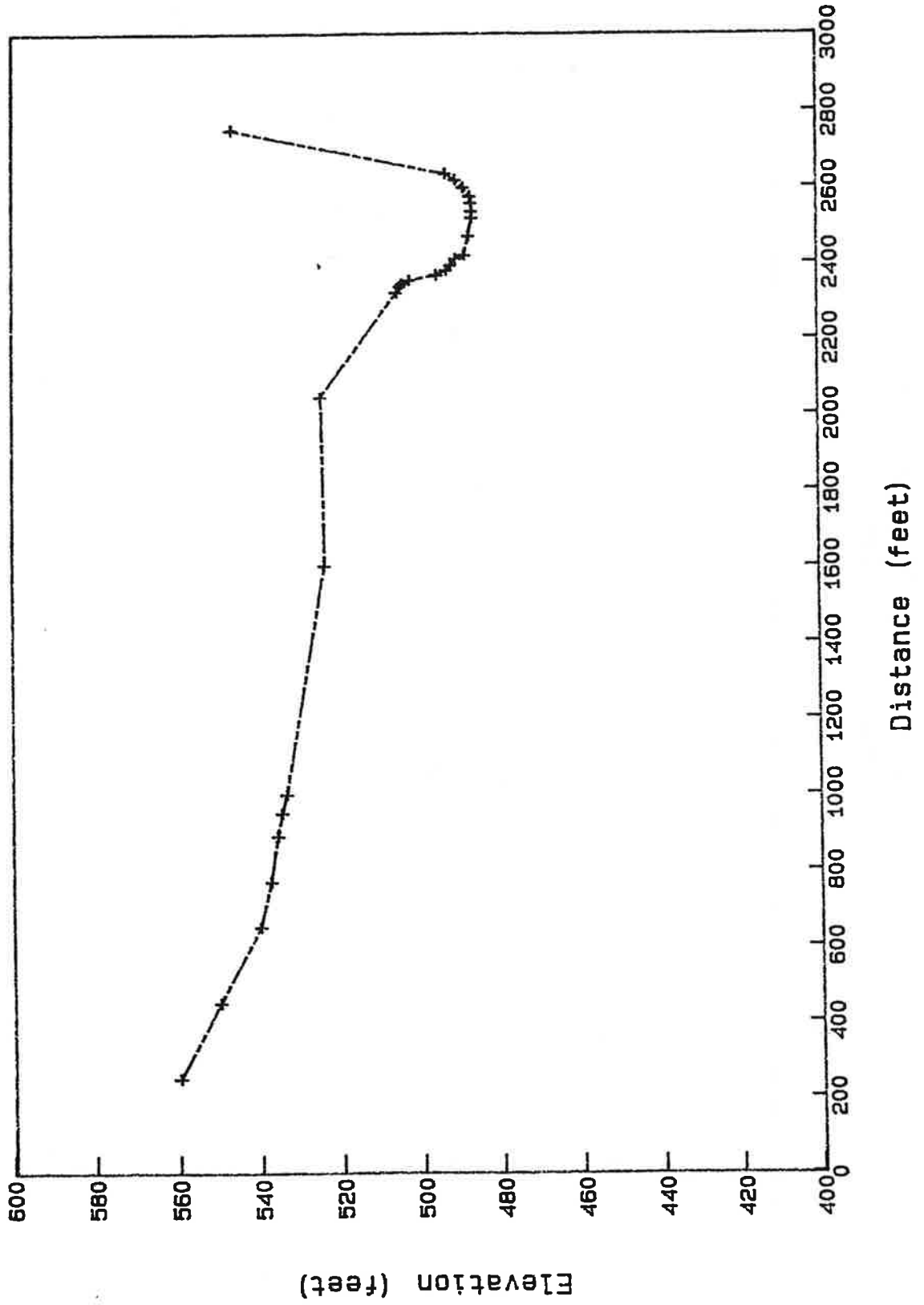
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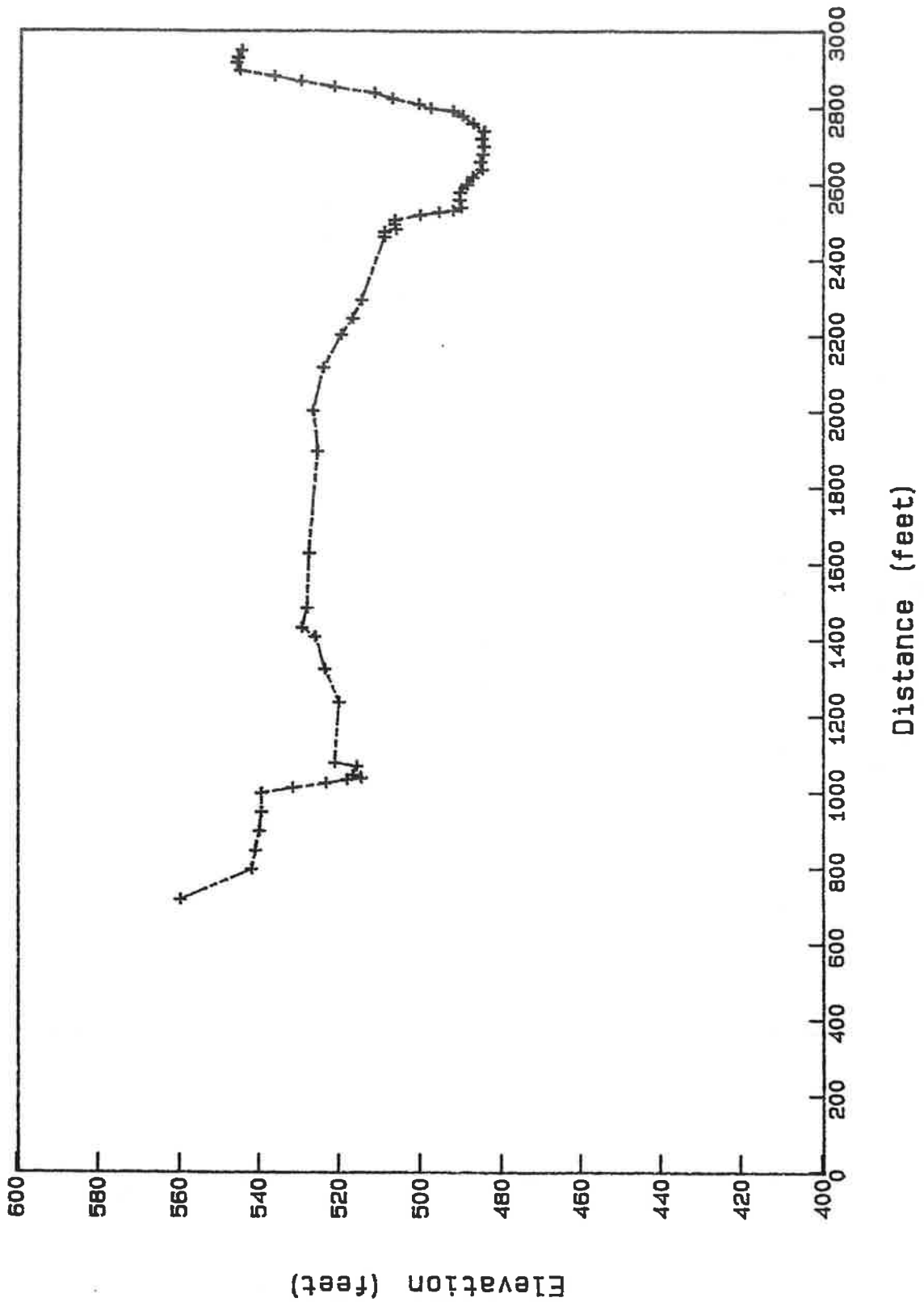
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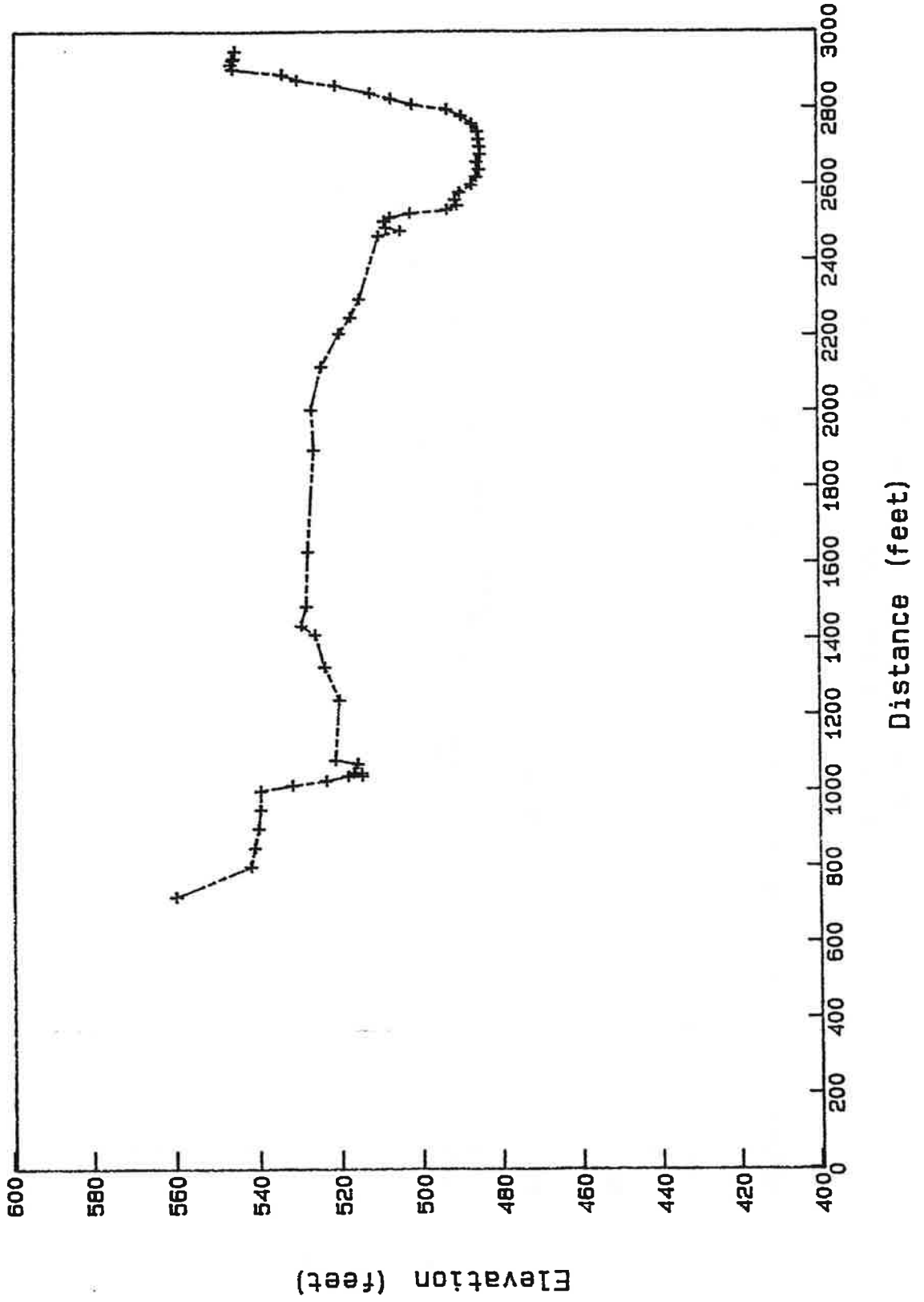
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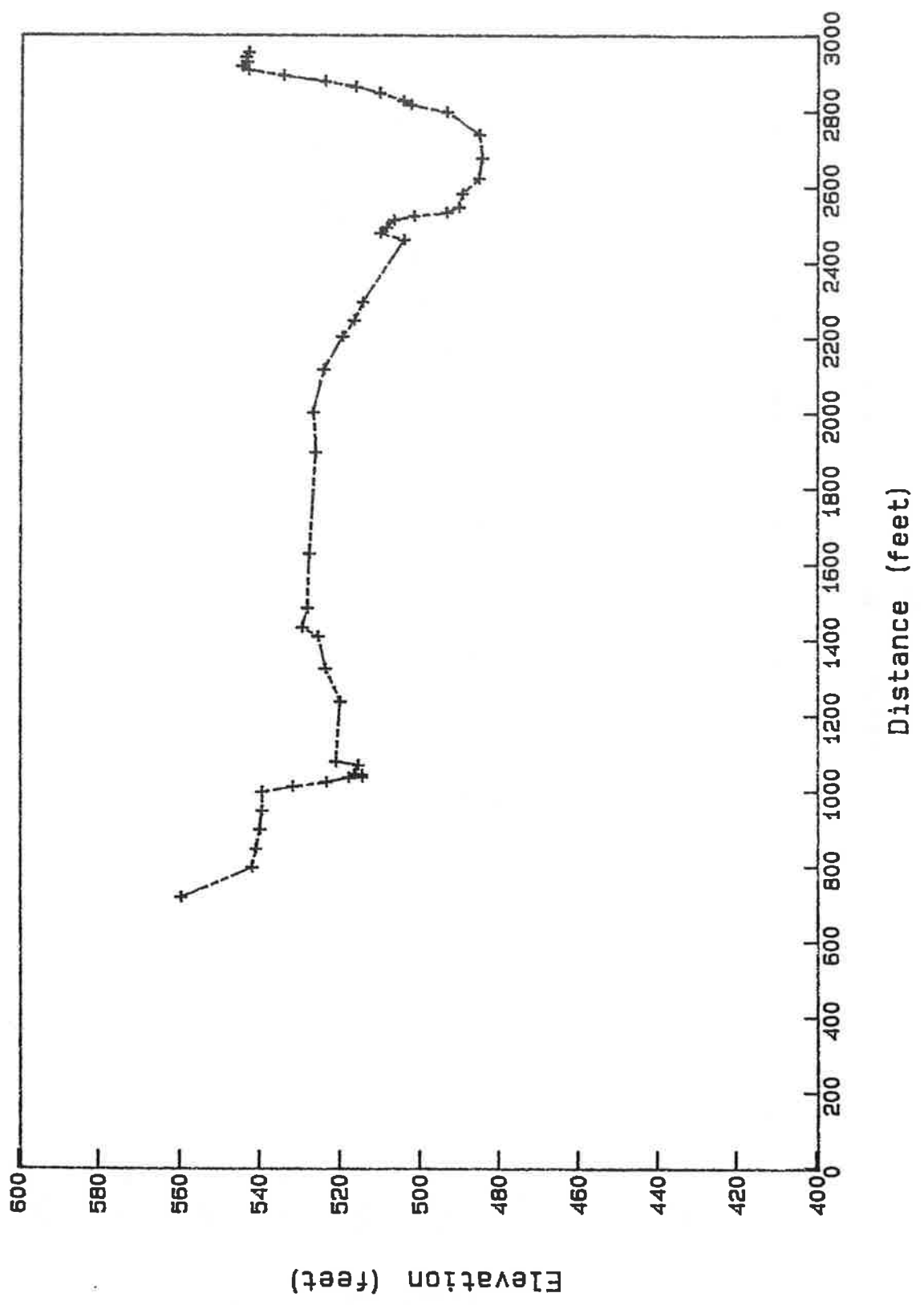
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Cross Section Number 11.00



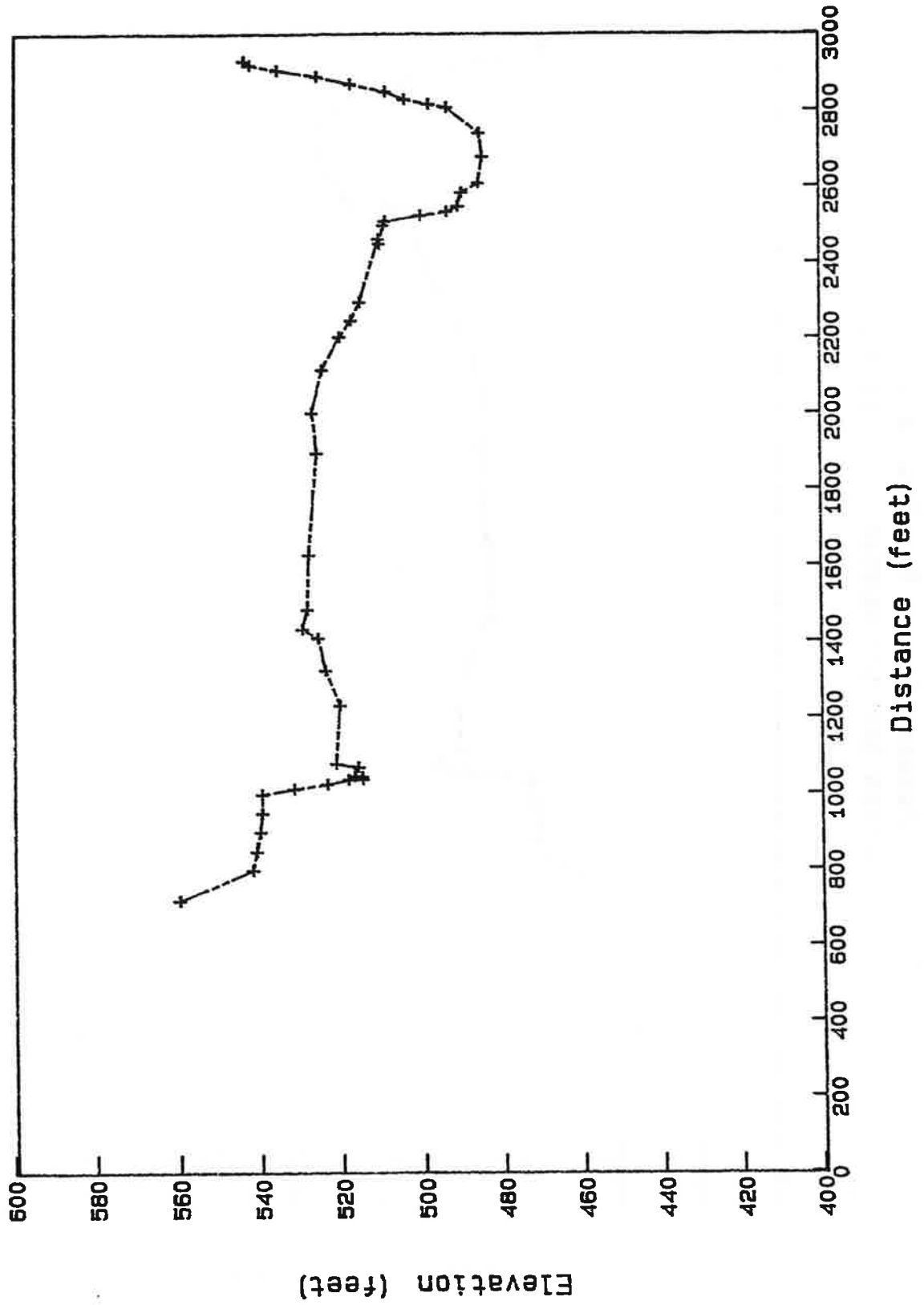
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Cross Section Number 11.50



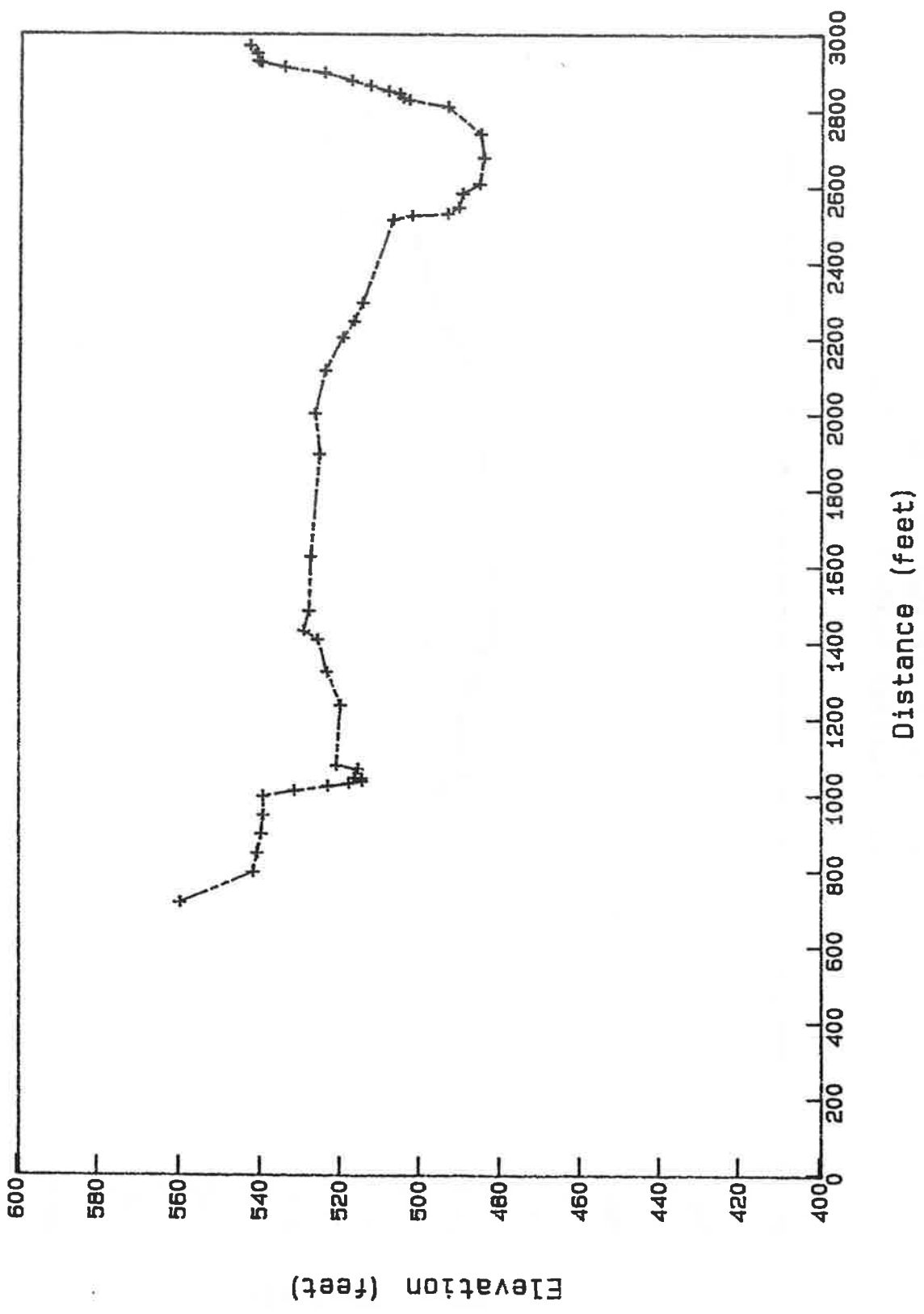
Potomac River Paw Paw, W.V.
Cross Section Number 12.00



Potomac River Paw Paw, W.V.
Cross Section Number 12.50



Potomac River Paw Paw, W.V.
Cross Section Number 12.91



Cross Sections 18 through 23

These transects were prepared for the Baltimore District of the ACE's floodplain information study of Washington County. Cross section 18 is taken at the current location of the Hancock maintenance yard. Cross section 21 is located at the USGS stream gage at Hancock, providing a rated control section. Section 22 as well as sections at the 522 bridge are not included in this data report. In each of these cross sections the C&O Canal prism is easily identified at elevation 415 msl.

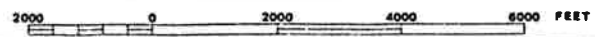


FIGURE 1

FEDERAL EMERGENCY MANAGEMENT AGENCY

TOWN OF HANCOCK, MD
(WASHINGTON CO.)

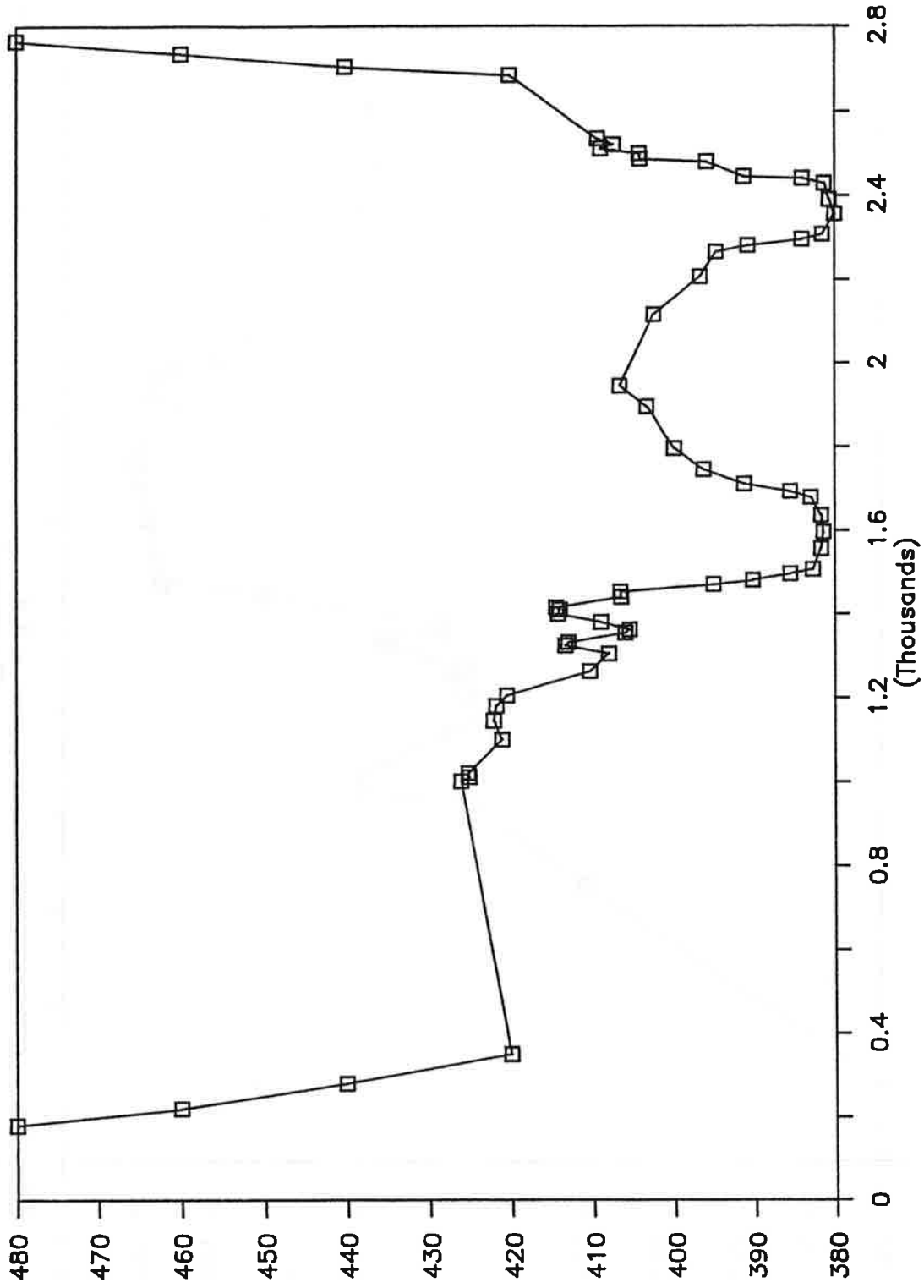
APPROXIMATE SCALE



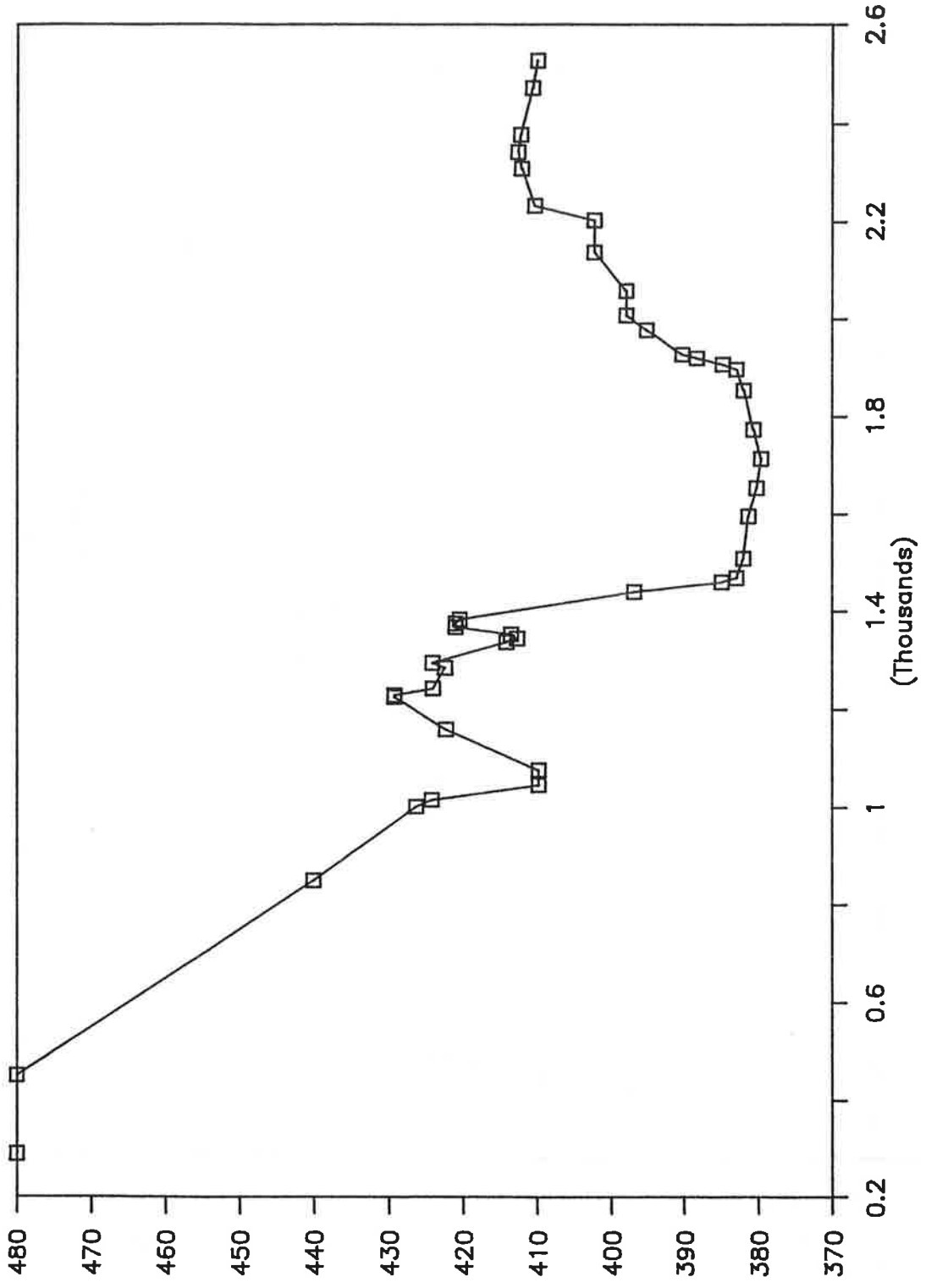
VICINITY MAP

Map 3

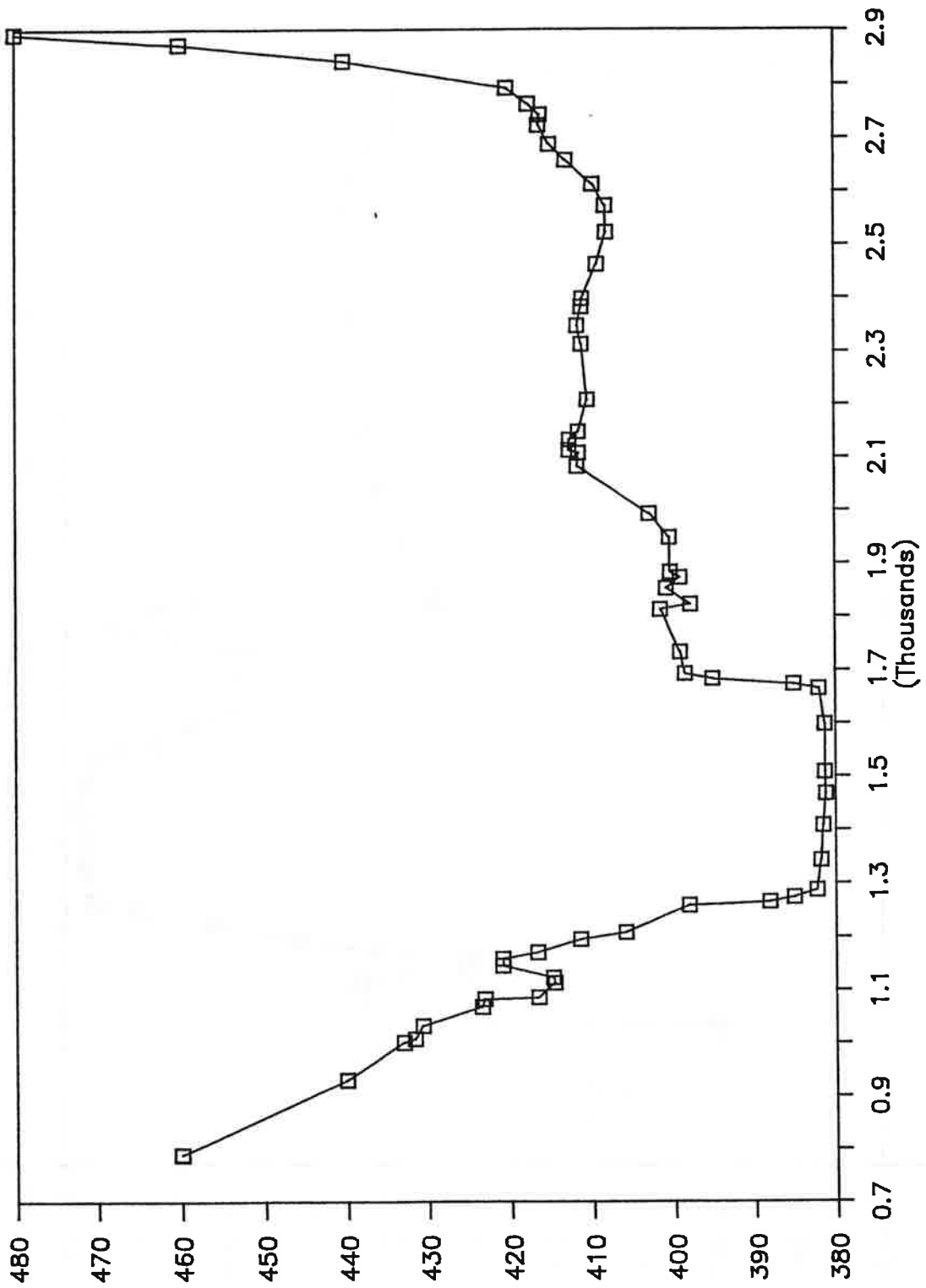
Cross Section X18



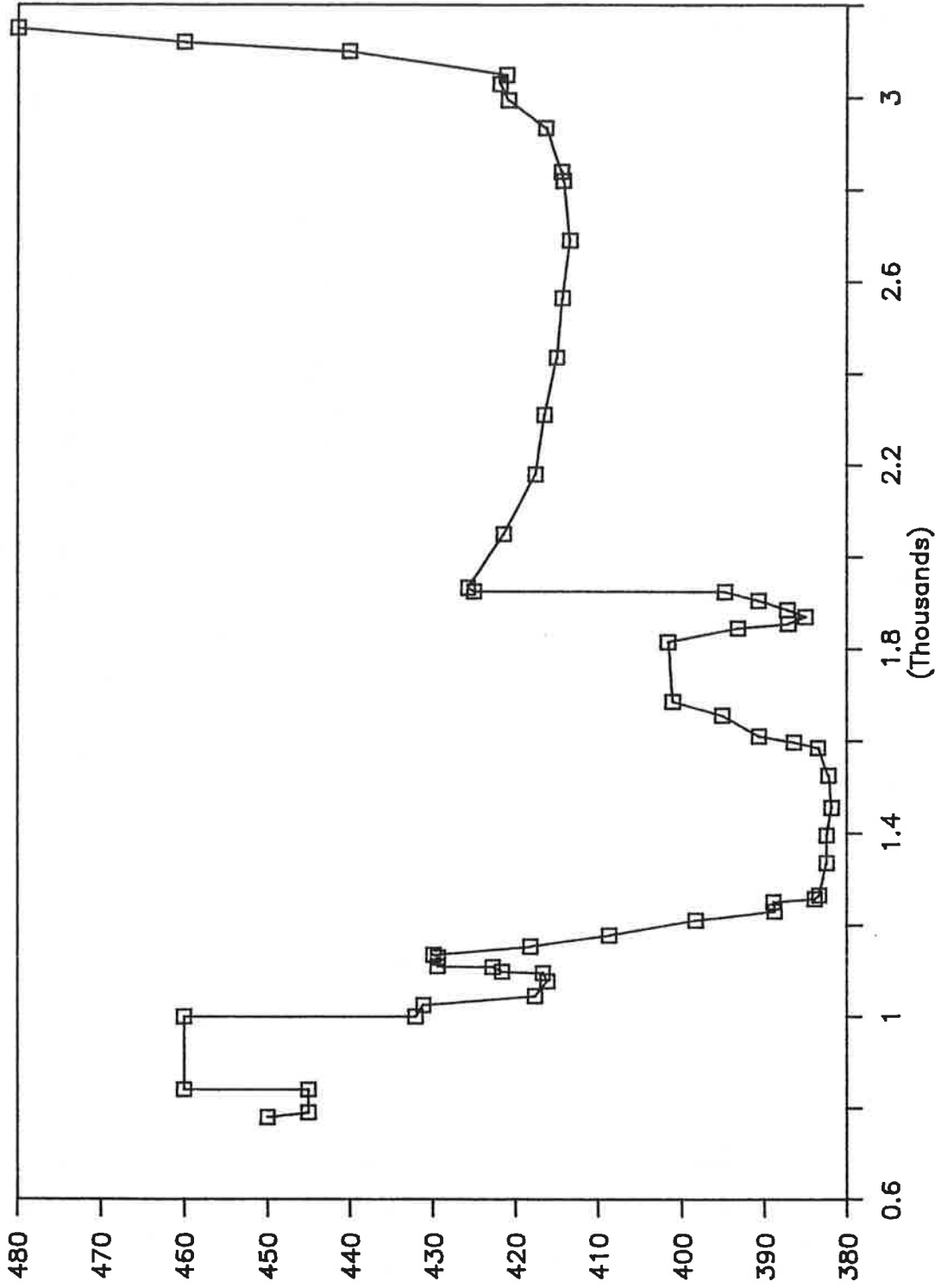
Cross Section X19



Cross Section X20



Cross Section X21



Cross Section X23

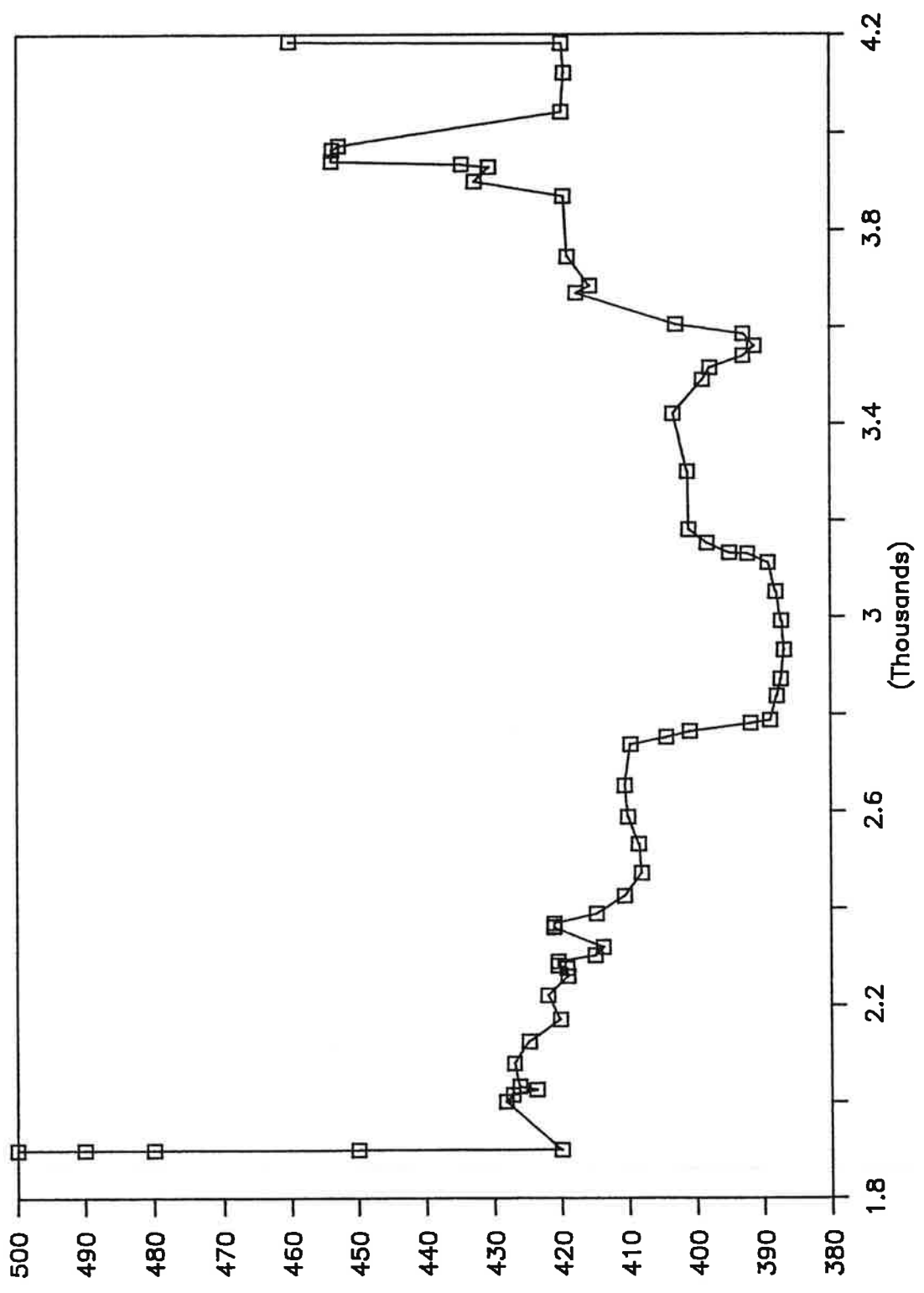


PHOTO PLATE 1
USCGS BENCHMARK A 43, RT. 522 BRIDGE, HANCOCK, MD.

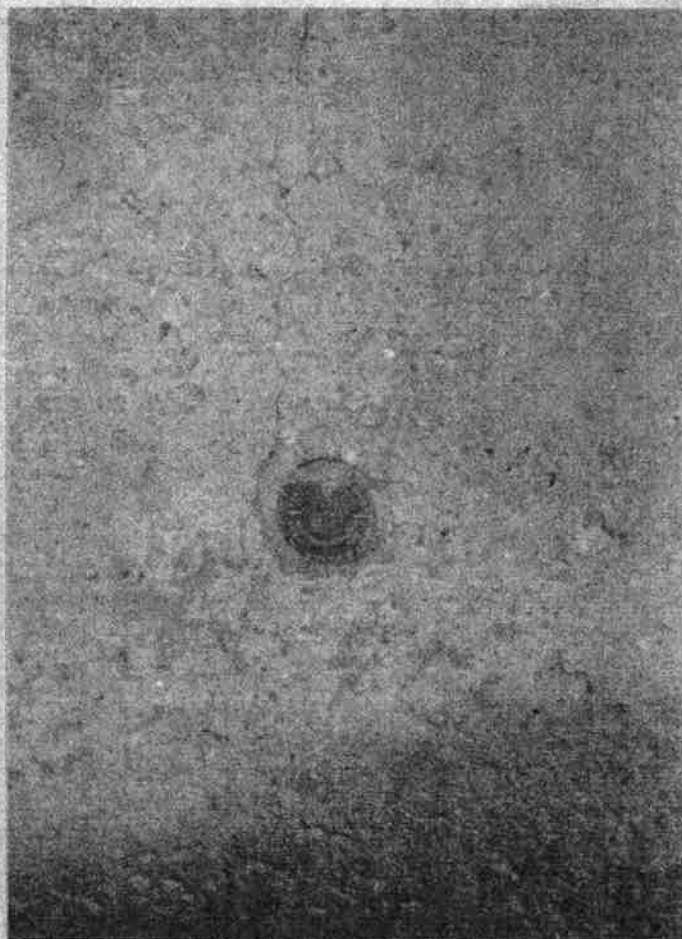


PHOTO PLATE 2
USCGS BENCHMARK C 448, HANCOCK BANK, HANCOCK, MD.

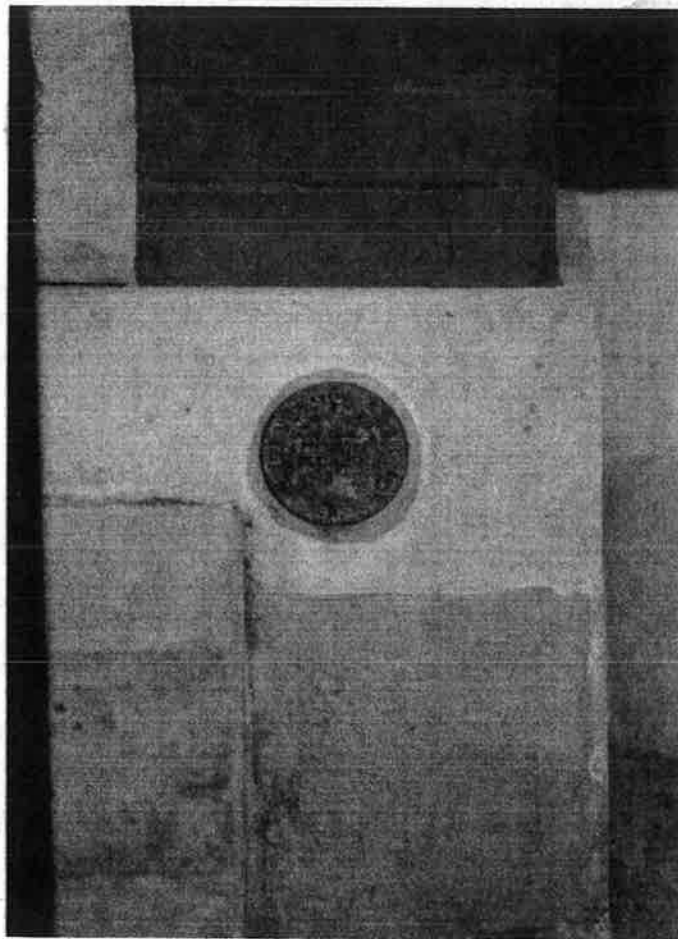


PHOTO PLATE 3
USGS BENCHMARK C459, C&O CANAL AQUEDUCT, FIFTEEN MILE CREEK

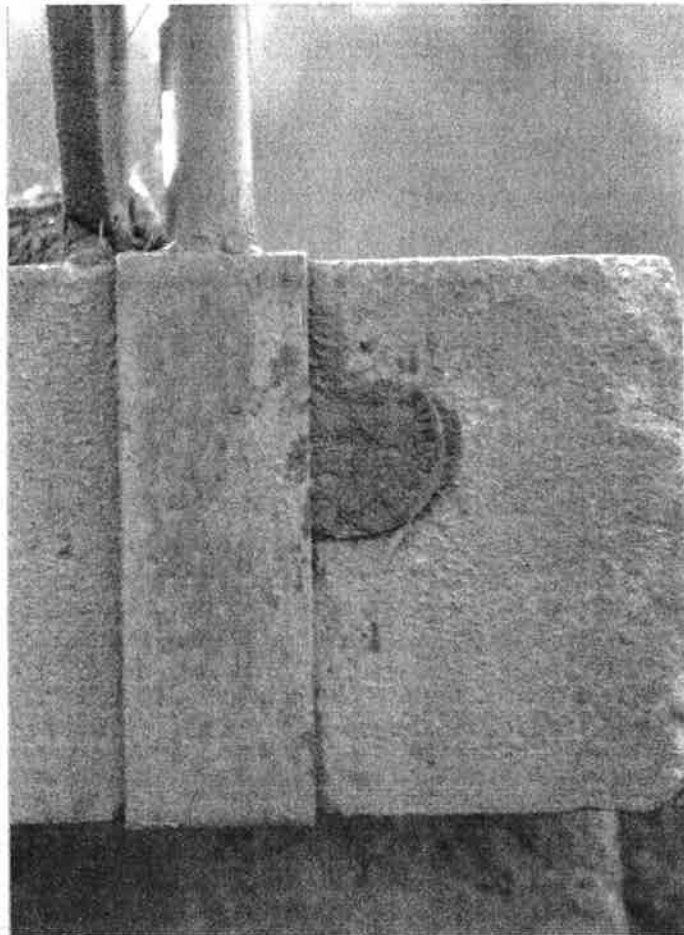


PHOTO PLATE 4
1936 HIGH WATER MARK, USGS GAGE 01613000, HANCOCK, MD.

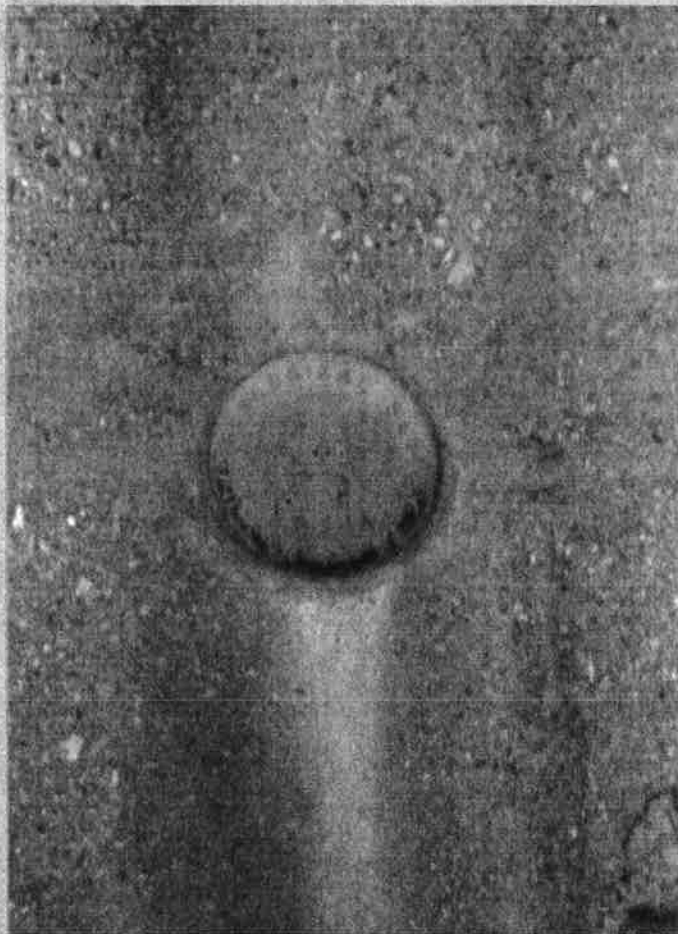
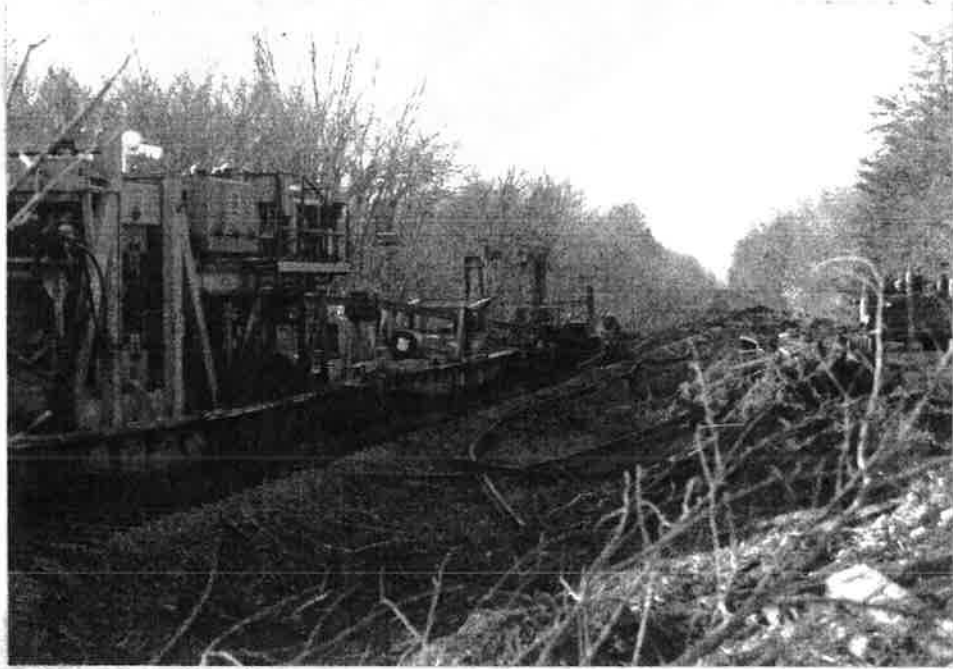


PHOTO PLATE 5
FEMA REFERENCE MARK RM 4, RT. 144 BRIDGE, HANCOCK, MD.



PHOTO PLATE 6
RAIL SALVAGE TRAIN IN OPERATION



**PHOTO PLATE 7
ROAD BED AFTER RAIL SALVAGING**



APPENDIX A

USCGS vertical controls for Paw Paw, WV. 30 minute Quadrangle

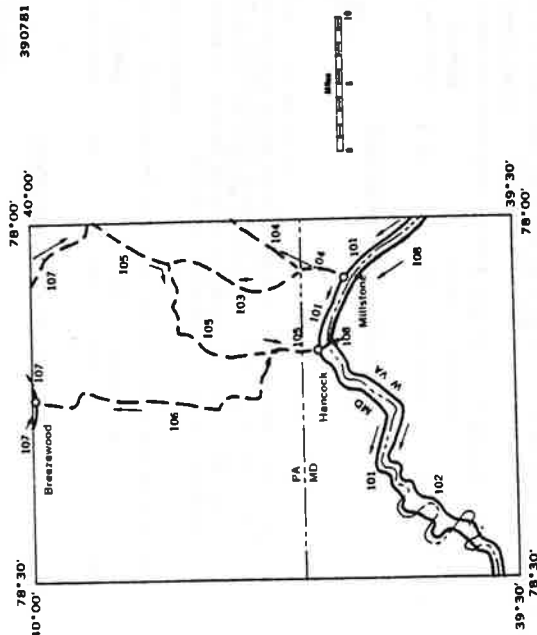
OCTOBER 1967

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

VERTICAL CONTROL DATA

by the
Coast and Geodetic Survey
SEALEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 1
PA-WD-W VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NJ 17-3 CUMBERLAND



LINE 101

DESCRIPTION OF BENCH MARK

Designation of bench mark Q 12 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 10.5 miles southeast of, along Western Maryland R.R.
Detailed description of location

10.5 miles southeast along the Western Maryland Railroad from the station at Hancock, 10 rails southeast of mile-post No. 105, set in the concrete base of an old water tower, 60.7 feet south of the southeast corner of Spillman Store, 511.2 feet west of the southwest corner of a barn, about 0.15 mile east of the station at Big Pool, 26.4 feet north of the north rail of the west-bound track. A standard disk stamped "R-12 1911".

DESCRIPTION OF BENCH MARK

Designation of bench mark R 12 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 9.5 miles southeast of, along Western Maryland R.R.
Detailed description of location

9.5 miles southeast along the Western Maryland Railroad from the station at Hancock, at a public road crossing, 6 rails northwest of mile-post No. 106, 22 feet northeast of the northeast rail of the west-bound track, 102 feet west of the center-line of the road, about 1 foot above the track level, 1 foot southwest of a white marker post stenciled "U.S.S.M. A standard disk stamped "R-12 1911" and set in the top of a pre-cast concrete post.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
24 OCT. 1967

DESCRIPTION OF BENCH MARK

Designation of bench mark P 12 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 12.4 miles southeast of, along Western Maryland R.R.
Detailed description of location

12.4 miles southeast along the Western Maryland Railroad from the station at Hancock, at a road crossing, 18 rails northwest of mile-post No. 103, 67 feet northeast of the center-line of the road, 26 feet southeast of the southwest rail of the east-bound track, 4 feet south of a telegraph pole, 1 foot northeast of a white marker post stenciled "U.S.S.M. A standard disk stamped "P-12 1911" and set in the top of a pre-cast concrete post.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
24 OCT. 1967

DESCRIPTION OF BENCH MARK

Designation of bench mark F 12 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 11.5 miles southeast of, along Western Maryland R.R.
Detailed description of location

11.5 miles southeast along the Western Maryland Railroad from the station at Hancock, 97.8 feet southeast of mile-post No. 104, 11.2 feet west of the west rail of the east-bound track, 9 feet southeast of signal tower No. A-1030, set in the southeast side of signal tower switch box. A standard disk stamped "F-12 1911".

DESCRIPTION OF BENCH MARK

Designation S 42 RESET 1963 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 7.8 miles southeast Levelling date 11/63
Character of mark a standard disk Stamping S 42 RESET 1963
Established by Maryland State Roads Commission
Detailed description

2.8 miles east along Main Street and I-70 to Maryland Route 615 in Hancock, Maryland, thence continue straight ahead for 5.0 miles along I-70 to Pecktonville Road on the left and the station on the right, as described, 4.7 miles south of the Maryland-Pennsylvania Line; approximately 200 feet south of the centerline of I-70 eastbound lane, approximately 475 feet east of the project centerline of Pecktonville Road, 15.0 feet west of west edge of a cemetery; approximately 175 feet northwest of an inlet, and set in the top of a concrete post projecting 4 inches.

DESCRIPTION OF BENCH MARK

Designation U 42 RESET 1963 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 5.6 Mi. East Levelling date 11/63
Character of mark a standard bench mark disk Stamping U 42 RESET 1963
Established by Maryland State Roads Commission
Detailed description

To reach the station from Hancock, Maryland, proceed east along Main Street and I-70 for 2.8 miles to Maryland Route 615, continue along I-70 for 2.8 miles to the station on the right, 31.2 feet south of the centerline of the Western Maryland Railroad tracks, 51.7 feet west of maintenance marker B 110, and 1.6 feet west of A.T.T. pole No. 110, and set in a concrete post projecting 4-inches.

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

VERTICAL CONTROL DATA
by the
Coast and Geodetic Survey
SEA LEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 2
RA-MD-W VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NJ 17-3 CUMBERLAND

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C. 20541

DESCRIPTION OF BENCH MARK

Designation of bench mark V 1/2 State Maryland County Washington
Nearest town Hancock
Distance and direction from nearest town 1.3 miles southeast of, along Western Maryland R.R.
Detailed description of location

1.3 miles southeast along the Western Maryland Railroad from the station at Hancock, 31 rails northwest of mile-post No. 111, at a public road crossing, set in the center of an old signal tower base, 1/2 feet northwest of the 2nd. telegraph pole west of the crossing, 9.5 feet north of the north rail of the track, 3 1/2 feet south of the center-line of the road that parallels the track. A standard disk stamped "V-1/2 1941".
Recovered as Described - 1942

DESCRIPTION OF BENCH MARK

Designation of bench mark W 1/2 State Maryland County Washington
Nearest town Hancock
Distance and direction from nearest town 3.5 miles southeast of, along Western Maryland R.R.
Detailed description of location

3.5 miles southeast along the Western Maryland Railroad from the station at Hancock, 123 feet northwest of mile-post No. 112, 19 feet north of the north rail of the track, 9 feet south of the center-line of an old wagon road, 7 1/2 feet south of the center-line of U. S. Highway No. 10, 1 foot south of a white marker post stencilled "U.S.B.M.". A standard disk stamped "W-1/2 1941" and set in top of a pre-set concrete post.
Recovered as Described - 1942

DESCRIPTION OF BENCH MARK

Designation of bench mark X 1/2 State Maryland County Washington
Nearest town Hancock
Distance and direction from nearest town 2.5 miles southeast of, along Western Maryland R.R.
Detailed description of location

2.5 miles southeast along the Western Maryland Railroad from the station at Hancock, at a road crossing, 10 1/2 rails southeast of mile-post No. 113, set in the center of an old signal tower base, 9 1/4 feet northwest of the northwest rail of the track, 31 feet northwest of the road crossing, 73 feet north of telegraph pole No. B-22, about 1 foot below track level, between the track and U.S. Highway No. 10. A standard disk stamped "X-1/2 1941".

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C. 20541

DESCRIPTION OF BENCH MARK

Designation of bench mark Y 1/2 State Maryland County Washington
Nearest town Hancock
Distance and direction from nearest town 1.2 miles southeast of, along Western Maryland R.R.
Detailed description of location

1.2 miles southeast along the Western Maryland Railroad from the station at Hancock, 1/2 mile northwest of mile-post No. 111, set in the southeast corner of the southeast headmill of the concrete railroad bridge, 37 feet north of the telegraph pole northwest of a private road crossing, 6 1/4 feet southwest of the southeast rail of the track. A standard disk stamped "Y-1/2 1941".
1962 Report - To be reset.

DESCRIPTION OF BENCH MARK

Designation of bench mark Z 1/2 State Maryland County Washington
Nearest town Hancock
Distance and direction from nearest town 0.5 mile east of, along Western Maryland R.R.
Detailed description of location

0.5 mile east along the Western Maryland Railroad from the station at Hancock, 51.2 feet north of mile-post No. 115, 33.8 feet north of the north rail of the main track, 67.2 feet east of the southeast corner of the school building, 23.2 feet west of the former fence post, between the tracks and the Highway No. 10. A standard disk stamped "Z-1/2 1941" and set in the top of a pre-set concrete post 1 foot south of a white marker post stencilled "U.S.B.M."

RECOVERY NOTE, BENCH MARK

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
FORM 6854 (11-8-56)
Designation C 446 (1933) State MARYLAND County WASHINGTON
Nearest town HANCOCK Chief of Party J. C. CHILDS
Distance and direction from nearest town AT HANCOCK Recovery Date OCTOBER 1960
Character of mark BENCH MARK DISK Stamping MARYLAND C 446
Established by U.S.G.S.
Present condition GOOD
Detailed report FOUND AS DESCRIBED

At Hancock, at the Hancock Bank, set vertically in the front of the north face of the bank, 13.8 feet south of the south curb of Main Street, 1.7 feet west of the west edge of the front door, 1.2 feet above the sidewalk level. A standard disk stamped Maryland C-446.

RECOVERY NOTE, BENCH MARK

Designation H State Maryland County Washington
Nearest town HANCOCK Described in Field of party
Distance and direction from nearest town At HANCOCK Recovery Date 1941
Character of mark A CHISELED SQUARE Established by Stamping
Also horizontal control point Present condition Fair
Detailed report:

New Descriptions:
At Hancock, 33 rails east of the Western Maryland Railroad station, set in about the center of the north wall of the quonset, 2.1 feet south of the north edge, 2.1 feet north of the south edge, 115 feet south of the south rail of the track. A chiseled square.

R

R

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

VERTICAL CONTROL DATA

by the
Coast and Geodetic Survey
SEALEVEL DATUM OF 1929

QUAD 390781
PA-MD-W VA
39°30' to 40°00'
LATITUDE 78°00' to 78°30'
LONGITUDE
DIAGRAM NJ 17-3 CUMBERLAND

LINE 101
(First-order)

The original field work $\sqrt{3}$ was done from 1903 to 1907. In May 1935, second-order leveling (L-6524) was done from Hancock to 5.7 miles west of Hancock by a party supervised by H. J. Oliver. The entire line was relevelled (L-9168) first-order in the summer of 1941 by a party supervised by K. B. Jeffers.

These elevations are derived from the latest leveling and arc based on a supplementary adjustment of 1944.

BENCH MARK	ADJUSTED ELEVATION (Feet)
N 42	130.378
P 42	127.673
Q 42	128.520
R 42	129.737
S 42	129.624
U 42	131.779
V 42	130.295
W 42	130.798
X 42	130.214
Y 42	129.624
Z 42	131.779
AA 42 (USGS)	136.624
*FA 2	128.301
A 43	133.338
B 43	131.563
BB 43	138.806
C 43	139.430
AA 44	139.944
D 43	144.437
E 43	147.704
F 43	143.211
G 43	138.715
H 43	136.777
I 43	136.844
J 43	139.566
K 43	137.285
L 43	139.978
MM Y	139.108
M 43	196.991
P 43	646.295
Q 43	260.889
R 43	150.497
X 11	140.152
Y 11	493.756
Z 11	459.815

LINE 101
(Continued)

BENCH MARK	ADJUSTED ELEVATION (Feet)
P 77	151.432
Q 77	151.459
R 77	152.526

THE LINE RE-ENTERS MARYLAND

R 43	154.685
S 43	159.447

THE LINE RE-ENTERS WEST VIRGINIA

S 77	161.000
T 77	159.172
U 77	159.635
V 77	160.807

THE LINE RE-ENTERS MARYLAND

T 43	167.061
------	---------

THE LINE RE-ENTERS WEST VIRGINIA

W 77	167.083
------	---------

THE LINE RE-ENTERS MARYLAND

U 43	163.709
V 43	166.368
W 43	169.934

LINE 102
(First-order)

The field work $\sqrt{1.27}$ was done in 1902 by a party supervised by O. E. Carr for the Baltimore & Ohio Railroad Company.

These elevations are based on a supplementary adjustment of 1944.

BENCH MARK	ADJUSTED ELEVATION (Feet)
102 (B&ORR)	130.028
106 (B&ORR)	130.102
106 (B&ORR)	133.071
110 (B&ORR)	138.511
111 (B&ORR)	139.745
102 (B&ORR)	426.600
106 (B&ORR)	426.843
106 (B&ORR)	436.584
110 (B&ORR)	454.432
111 (B&ORR)	458.480

LINE 102
(Continued)

BENCH MARK	ADJUSTED ELEVATION (Feet)
112 (B&ORR)	142.951
125 (B&ORR)	153.130
126 (B&ORR)	156.010
127 (B&ORR)	157.445
132 (B&ORR)	161.057

The field work (L-9544) was done in the spring of 1942 by a party supervised by K. B. Jeffers.

These elevations are based on a supplementary adjustment of 1944.

BENCH MARK	ADJUSTED ELEVATION (Feet)
P 152	138.223
Q 152	140.878
T 148	246.954
U 148	241.165
532 (USGS)	233.962
V 148	162.157
W 148	245.792
X 148	265.621
Y 148	189.295
Z 148	196.502

LINE 104
(Second-order)

The field work (L-9544) was done in the spring of 1942 by a party supervised by K. B. Jeffers.

These elevations are based on a supplementary adjustment of 1944.

BENCH MARK	ADJUSTED ELEVATION (Feet)
B 55	139.459
A 55	152.251
NN 152	136.722
N 152	166.550
TT 4 D (USGS)	157.415
L 152	157.079
140.562	
546.423	
516.452	
515.350	

LINE 104
(Second-order)

The original field work (L-6524) was done in the spring of 1935 by a party supervised by H. J. Oliver. In the fall of 1960, the portion of the line from 4.5 miles north of Hancock to the end was relevelled (L-18133) by a party supervised by J. C. Childs and in cooperation with the Pennsylvania Highway Department.

The original elevations are based on a supplementary adjustment of 1944 and the relevelled portion is based on a supplementary adjustment of 1961.

BENCH MARK	ADJUSTED ELEVATION (Feet)
H 99 (PDH)	260.379
J 99	272.005
K 99 (PDI)	253.218
L 99	263.288
M 99	215.364
N 99 (PDH)	212.167
P 99 (PDH)	207.750
Q 99 (PDH)	371.795
R 99 (PDH)	197.588
S 99	268.434
T 99 (PDH)	185.283
U 99 (PDH)	185.275
V 99 (PDH)	183.823
W 99	190.915
X 99	251.397
Y 99	253.561
Z 99 (PDH)	248.374
SCOTT AZT	161.581
*C 10 (USGS)	173.204
X 265	152.991
BANK NO 2	192.380
BANK NO 1	193.794
BANK STATION	193.531
STATE LINE NO 1	169.379
STATE LINE STATION	170.007

* Changed elevation

VERTICAL CONTROL DATA
 by the
 Coast and Geodetic Survey
 SEALEVEL DATUM OF 1929

LINE 105
 (continued)

BENCH MARK	ADJUSTED ELEVATION (Meters)	(Feet)
STATE LINE NO 2	169.303	555.445
ZZ 99	170.966	587.158
STATE LINE MON	167.697	550.168

THE LINE ENTERS MARYLAND

P 14	145.788	478.306
J0 1	175.236	574.920

LINE 106
 (Second-order)

The field work (L-18133) was done in the fall of 1960 by a party supervised by J. C. Childs and in cooperation with the Pennsylvania State Highway Department.

BENCH MARK	ADJUSTED ELEVATION (Meters)	(Feet)
W 265	157.089	515.383
V 265	180.129	590.973
U 265	176.474	578.982
T 265	202.904	665.694
S 265	196.305	644.044

DENEEN NO 1	235.025	771.078
DENEEN STATION	234.820	770.405
DENEEN NO 2	235.099	771.321
DENEEN AZI	220.213	722.482
TT 45 (USGS)	307.417	1008.584

POINT VIEW STATION	307.272	1008.108
POINT VIEW NO 1	307.458	1008.718
R 265	312.120	1024.014
Q 265	327.780	1075.392
P 265	377.853	1239.673
N 265	415.404	1362.871
M 265	456.932	1499.118
L 265	490.450	1609.085
K 265	530.720	1741.204
J 265	425.615	1396.372
H 265 (PDM)	372.839	1223.223
C 16 (USGS)	399.890	1311.972
D 265	391.334	1283.902
GARLAND AZI	392.373	1287.310
GARLAND STATION	386.717	1268.754

LINE 106
 (continued)

BENCH MARK	ADJUSTED ELEVATION (Meters)	(Feet)
GARLAND NO 2	387.017	1269.738
GARLAND NO 1	386.079	1266.661
P 265 (PDM)	352.474	1156.408
E 265	366.636	1202.872
D 265	394.196	1293.291

SPRUILL STATION	417.209	1368.793
SPRUILL NO 2	415.629	1363.609
SPRUILL NO 1	414.632	1360.338
C 265	401.148	1316.100
B 265 (PDM)	377.978	1240.083
C 18 (USGS)	Destroyed	
WOLF STATION	Destroyed	

LINE 107
 (Second-order)

The original field work (L-6593) was done in the spring of 1935 by a party supervised by H. J. Oliver. In the fall of 1960, releveling (L-18133) was done in the vicinity of Breezewood by a party supervised by J. C. Childs and in cooperation with the Pennsylvania State Highway Department.

The original elevations are based on a supplementary adjustment of 1944 and the relevelled portion is based on a supplementary adjustment of 1961.

BENCH MARK	ADJUSTED ELEVATION (Meters)	(Feet)
J 95 (PHD)	304.577	992.266
K 95	389.499	1277.881
A 265	415.162	1362.077

THE LINE LEAVES AND RE-ENTERS
 THE QUADRANGLE

R 95	280.780	921.192
TTS 56 J (USGS)	276.707	907.830
782 (USGS)	238.574	782.722
S 95 (PDM)	238.932	783.896
T 95 (PHD)	259.461	851.248
U 95	441.616	1448.868
V 95	385.951	1266.241

LINE 108
 (First-order)

The field work 7127 was done in 1902 by a party supervised by O. F. Carr for the Baltimore & Ohio Railroad Company.

These elevations are based on a supplementary adjustment of 1944.

BENCH MARK	ADJUSTED ELEVATION (Meters)	(Feet)
87 (B&OHR)	119.423	391.807
88 (B&OHR)	117.351	385.009
93 (B&OHR)	122.351	401.446
94 (B&OHR)	123.743	405.940
95 (B&OHR)	124.100	407.151
96 (B&OHR)	123.525	405.265
97 (B&OHR)	124.752	407.291

THE LINE ENTERS MARYLAND

OCTOBER 1967

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

VERTICAL CONTROL DATA
by the
Coast and Geodetic Survey
SEA LEVEL DATUM OF 1929

QUAD 390781 PAGE NO.3
PA-MD-W VA 39°30' to 40°00'
LATITUDE 78°00' to 78°30'
LONGITUDE DEAGHAM NJ 17-3 CUMBERLAND

JUNE 1961

FORM 485A
(1-6-59)

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Designation WA 2 (Md. Geod. S.) State MARYLAND County WASHINGTON
Nearest town AT HANCOCK County WASHINGTON
Distance and direction from nearest town AT HANCOCK
Character of mark SURVEY DISK
Established by MARYLAND GEODETIC SURVEY
Present condition POOR
Detailed report FOUND AS DESCRIBED BUT DUE TO CONSTRUCTION OF A NEW SIDEWALK THIS BM
APPEARS TO HAVE BEEN MOVED.

At Hancock, at the High School, 17 feet east of the center-line of the drive leading to the southwest side of the school, 28.7 feet southwest along the sidewalk from a point in line with the southwest side of the school, 26.3 feet north of the center-line of U.S. Highway No. 10, set in a square hole in the walk near the edge. The mark is covered with a large stone placed in the hole. A standard disk stamped "WA-2", and set in the top of a concrete post.

R

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
24, OCT. 1960

REPORT ON CONDITION OF BENCH MARK

Designation of mark BB-14 State Maryland County Washington
Nearest town Hancock Distance and direction from nearest town 2.4 miles southwest of, along Western Maryland R.R.
Mark searched for or recovered by (Name) J. G. Chambers
(Occupation) Bench Mark Setter
Date May 1941 (Address) Washington, D. C.

Present condition of the mark Good
Letters or numbers found stamped on (not cast in) the mark BB-14 1935.
Use the following space for reporting upon the thoroughness of the search in case mark was not recovered, or for suggesting needed changes in the published description, if the mark was recovered.

2.4 miles southwest along the Western Maryland Railroad from the station at Hancock, 13 miles east of mile-post No. 118, 106.5 feet southwest of Leners sign post, 26.8 feet south of the south rail, 200 feet east of B.M. "G-43 1941", 39.5 feet northwest of the 3rd. telegraph pole east of the crossing, a standard disk stamped "BB-14 1935" and set in a rock boulder about 5 feet below track level, 3.7 feet north of a white marker post stencilled U.S.B.M.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
24, OCT. 1960

DESCRIPTION OF BENCH MARK

Designation of bench mark A 43 State Maryland County Washington
Nearest town Hancock
Distance and direction from nearest town 0.5 mile west of, along Western Maryland R.R.
Detailed description of location
0.5 mile west along the Western Maryland Railroad from the station at Hancock, 19 feet north of mile-post No. 116, set in the northeast end of the corner of the 4th. pier base from the northwest end of the U.S. Highway No. 522, 8.5 feet southeast of the southeast rail of the track, 5 feet above the ground level. A standard disk stamped "A-43 1941" and set vertically.
Recovered as Described - 1960

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
24, OCT. 1960

DESCRIPTION OF BENCH MARK

Designation of bench mark G 43 State Maryland County Washington
Nearest town Hancock
Distance and direction from nearest town 2.5 miles southeast of, along Western Maryland R.R.
Detailed description of location
2.5 miles southwest along the Western Maryland Railroad from the station at Hancock, at a public road crossing, 8 rails east of mile-post No. 118, 38 feet south of the south rail of the track, 88 feet east of the center-line of the road, 115 feet southeast of the southeast corner of a packing shed, 3.4 feet west of a telegraph pole, 1 foot east of a white marker post stencilled U.S.B.M. A standard disk stamped "G-43 1941" and set in the top of a pre-cast concrete post.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
24, OCT. 1960

DESCRIPTION OF BENCH MARK

Designation of bench mark B 43 State Maryland County Washington
Nearest town Hancock
Distance and direction from nearest town 1.5 miles southwest of, along Western Maryland R.R.
Detailed description of location
1.5 miles southwest along the Western Maryland Railroad from the station at Hancock, 21 rails southwest of mile-post No. 117, at a private road crossing, about 6 feet above the track level, 35 feet northwest of the northwest rail of the track, 10 feet southwest of the center-line of the private road, 36.4 feet south of the southwest corner of the house, 16 feet east of a 6-inch white oak tree, 0.2 foot south of a white marker post stencilled U.S.B.M. A standard disk stamped "B-43 1941" and set in the top of a pre-cast concrete post.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
24, OCT. 1960

REPORT ON CONDITION OF BENCH MARK

Designation of mark AB-14 State Maryland County Washington
Nearest town Hancock Distance and direction from nearest town 3.6 miles southwest of, along Western Maryland R.R.
Mark searched for or recovered by (Name) J. G. Chambers
(Occupation) Bench Mark Setter
Date May 1941 (Address) Washington, D. C.

Present condition of the mark Good
Letters or numbers found stamped on (not cast in) the mark AB-14 1935
Use the following space for reporting upon the thoroughness of the search in case mark was not recovered, or for suggesting needed changes in the published description, if the mark was recovered.

3.6 miles southwest along the Western Maryland Railroad from the station at Hancock, 19 rails southwest of mile-post No. 119, 27 rails northeast of signal tower No. A-1194, 82 feet southwest of the 7th. telegraph pole southwest of the mile-post, 43 feet northeast of the 8th. telegraph pole southwest of the mile-post, 5.8 feet southwest of the southeast rail of the track, set in the concrete retaining wall. The mark was found to be under about 1 1/2 foot of right-of-way ballast.

R

OCTOBER 1967

U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
CONST AND GEODETIC SURVEY

VERTICAL CONTROL DATA
by the
Coast and Geodetic Survey
SEA LEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 4
PA-MD-4 VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NO 17-3 COMBERLAND

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
21 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark B-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 4.5 miles southwest of, along Western Maryland R.R.
Detailed description of location
11.5 miles southwest along the Western Maryland Railroad from the station at Hancock, at a road crossing, 614 feet southeast of mile-post No. 120, 1/4 mile east of the east rail of the main track, 36 feet northwest of the center-line of the road, 6.6 feet south of a telegraph pole, about 1 foot above the track level, 1 foot west of a white marker post stencilled U.S.M.C. A standard disk stamped "B-43 1941" and set in the top of a pre-cast concrete post.

DESCRIPTION OF BENCH MARK

Designation of bench mark B-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 5.7 miles southwest of, along Western Maryland R.R.
Detailed description of location
5.7 miles southwest along the Western Maryland Railroad from the station at Hancock, at a public road crossing, 33 rails southeast of mile-post No. 121, set in a rock boulder about 1 foot lower than the track, and at the top of a hill where the road crosses the track, 13.5 feet northwest of the northwest rail of the track, 12 feet southeast of the center-line of the road, 13.7 feet northwest of the crossing sign post. A standard disk stamped "B-43 1941".

DESCRIPTION OF BENCH MARK

Designation of bench mark F-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 6.8 miles southwest of, along Western Maryland R.R.
Detailed description of location
6.8 miles southwest along the Western Maryland Railroad from the station at Hancock, 16 rails southeast of mile-post No. 122, set in the west corner of signal tower No. A-122, 7 feet southeast of the southeast rail of the track, 3 standard disk stamped "F-43 1941".

DESCRIPTION OF BENCH MARK

Designation of bench mark G-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 7.7 miles southwest of, along Western Maryland R.R.
Detailed description of location
7.7 miles southwest along the Western Maryland Railroad from the station at Hancock, 83.6 feet west of mile-post No. 123, set in a rock boulder, 9.1 feet northwest of the northwest rail of the track, 23 rails northwest of a road crossing, 59 feet northwest of a small water stream on the northwest side of the track. A standard disk stamped "G-43 1941".

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
21 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark B-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 8.7 miles southwest of, along Western Maryland R.R.
Detailed description of location
8.7 miles southwest along the Western Maryland Railroad from the station at Hancock, 13 rails west of mile-post No. 124, set in the west corner of signal tower No. A-124, 8 feet south of the south rail of the track, 25 feet south of the south edge of a high bluff. A standard disk stamped "B-43 1941".

DESCRIPTION OF BENCH MARK

Designation of bench mark J-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 9.8 miles southwest of, along Western Maryland R.R.
Detailed description of location
9.8 miles southwest along the Western Maryland Railroad from the station at Hancock, 11 1/2 rails northwest of mile-post No. 125, 25.4 feet southeast of the east corner of a flagpole shanty, 10.5 feet east of the east corner of a telegraph pole southeast of the shanty, 7.7 feet southwest of the southwest rail of the track, A standard disk stamped "J-43 1941" and set in a rock boulder about 1 foot below track level and at the northwest end of a deep cut.

DESCRIPTION OF BENCH MARK

Designation of bench mark K-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 10.8 miles southwest of, along Western Maryland R.R.
Detailed description of location
10.8 miles southwest along the Western Maryland Railroad from the station at Hancock, 16 1/2 rails northwest of mile-post No. 126, 200 feet northwest of a side road leading northeast to the Maryland State Game Refuge, 19 feet northwest of the northwest rail of the track, 31 feet southwest of the east-rail of the road, set in the center of a 12-inch concrete culvert in the southwest head-wall. A standard disk stamped "K-43 1941".

DESCRIPTION OF BENCH MARK

Designation of bench mark L-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 11.7 miles southwest of, along Western Maryland R.R.
Detailed description of location
11.7 miles southwest along the Western Maryland Railroad from the station at Hancock, 5 rails west of mile-post No. 127, set in the southwest corner of the signal tower base in front of the station at Sparrow, 5 feet southwest of the southeast corner of the telegraph office, 8.9 feet north of the north rail of the main track. A standard disk stamped "L-43 1941".

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
21 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark K-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 10.8 miles southwest of, along Western Maryland R.R.
Detailed description of location
10.8 miles southwest along the Western Maryland Railroad from the station at Hancock, 16 1/2 rails northwest of mile-post No. 126, 200 feet northwest of a side road leading northeast to the Maryland State Game Refuge, 19 feet northwest of the northwest rail of the track, 31 feet southwest of the east-rail of the road, set in the center of a 12-inch concrete culvert in the southwest head-wall. A standard disk stamped "K-43 1941".

DESCRIPTION OF BENCH MARK

Designation of bench mark L-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 11.7 miles southwest of, along Western Maryland R.R.
Detailed description of location
11.7 miles southwest along the Western Maryland Railroad from the station at Hancock, 5 rails west of mile-post No. 127, set in the southwest corner of the signal tower base in front of the station at Sparrow, 5 feet southwest of the southeast corner of the telegraph office, 8.9 feet north of the north rail of the main track. A standard disk stamped "L-43 1941".

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
21 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark G-43 State Maryland County Washington
Nearest town Hancock County Washington
Distance and direction from nearest town 7.7 miles southwest of, along Western Maryland R.R.
Detailed description of location
7.7 miles southwest along the Western Maryland Railroad from the station at Hancock, 83.6 feet west of mile-post No. 123, set in a rock boulder, 9.1 feet northwest of the northwest rail of the track, 23 rails northwest of a road crossing, 59 feet northwest of a small water stream on the northwest side of the track. A standard disk stamped "G-43 1941".

OCTOBER 1967

VERTICAL CONTROL DATA

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

by the
Coast and Geodetic Survey
SEALEVEL DATUM OF 1929

QUAD 390781
PA-MD-W VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NJ 17-3 CUMBERLAND

PAGE NO.5

LINE 101

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
24 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark T-8-M. Y State Maryland County Allegany
Nearest town Pearre County Allegany
Distance and direction from nearest town About 1.6 Mi. N.W. of
Detailed description of location T-8-M. Y is located in the WURREN west side of the south abutment of bridge (Hy) over Sideling Hill Creek about 6.5 feet below road level, a half inch piece of re-inforcing steel which protrudes about one quarter of an inch above the concrete.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
24 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark M-43 State Maryland County Allegany
Nearest town Pearre County Allegany
Distance and direction from nearest town About 2.6 Mi. N.W. of
Detailed description of location M-43 is located about 2.6 Mi N.W. of Pearre along "Old Town road", 14.5 feet N of center line of catch basin, About 1 Mi. W of bridge over Sideling Hill Creek

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
24 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark P-43 State Maryland County Allegany
Nearest town Hancock County Washington
Distance and direction from nearest town 14.8 miles southwest of, along the Spring Lake Road.
Detailed description of location 14.8 miles southwest along the Spring Lake Road from the station at Hancock, at the intersection of the Spring Lake Road and a side road leading east, 22 feet southeast of the center-line of the Spring Lake Road, 22 feet north of the center-line of the side road, set in the top of the intersection, 8.7 feet northeast of the southwest edge of the top, 17.6 feet southwest of the 1-inch train oak tree, 0.1 foot southwest of a white marker post stamined U.S.B.M. A standard disk stamped "P-43 1941" and set in the top of a pre-cast concrete post.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
24 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark Q-43 State Maryland County Allegany
Nearest town Hancock County Washington
Distance and direction from nearest town 16.1 miles southwest of, along Western Maryland R.R.
Detailed description of location 16.1 miles southwest along the Western Maryland Railroad west corner of a large concrete bridge, 17 feet northeast of the east corner of the station at Little Orleans, 17.6 feet northeast of the northwest rail of the track, 14.5 feet northeast of the southwest end guard rail post. A standard disk stamped "Q-43 1941".

RECOVERY NOTE, BENCH MARK

Designation X11 State Maryland County Allegany
Nearest town Little Orleans Chief of party
Distance and direction from nearest town At Little Orleans Recovery date 1941
Character of mark chiseled square Established by
Also horizontal control point Present condition Fair
Detailed report:

New Descriptions
At Little Orleans, along the Chesapeake & Ohio Canal, cut in the west corner of the south side of the aqueduct, 7.2 feet north of the south edge, 3.2 feet east of the west edge, 2.8 feet west of the east edge, 29 feet west of the center-line of the road on the east side of the Canal. A chiseled square 0.06 of a foot square.

THE LINE ENTERS WEST VIRGINIA

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
24 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark P-77 State West Virginia County Morgan
Nearest town Hancock (Maryland) County Washington
Distance and direction from nearest town 17.2 miles southwest of, along Western Maryland R.R.
Detailed description of location 17.2 miles southwest along the Western Maryland Railroad from the station at Hancock, 9 rails west of mile-post No. 132, set in the northwest corner of signal tower No. A-132, 33.6 feet southeast of a switch stand, 16.4 feet northwest of the northwest corner of the flagman shack, 6.9 feet south of the south rail of the track. A standard disk stamped "P-77 1941".

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
24 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark Q-77 State West Virginia County Morgan
Nearest town Oldtown (Maryland) County Allegany
Distance and direction from nearest town 18.0 miles northwest of, along Western Maryland R.R.
Detailed description of location 18.0 miles northwest along the Western Maryland Railroad from the station at Oldtown, 13 miles northwest of mile-post No. 133, set in the east corner of signal tower No. A-133, 65 feet east of 'Box Gully' sign post, 14.2 feet northwest of the north corner of the flagman shack, 7.2 feet southwest of the southwest rail of the track. A standard disk stamped "Q-77 1941".

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
24 OCT. 1968

DESCRIPTION OF BENCH MARK

Designation of bench mark R-77 State West Virginia County Morgan
Nearest town Oldtown (Maryland) County Allegany
Distance and direction from nearest town 17.0 miles northeast of, along Western Maryland R.R.
Detailed description of location 17.0 miles northeast along the Western Maryland Railroad from the station at Oldtown, set in the north corner of signal tower No. A-134, 42 feet east of mile-post No. 134, 7.5 feet southeast of the southwest rail of the track, southwest of a large gully between deep cuts. A standard disk stamped "R-77 1941".

R

THE LINE RE-ENTERS MARYLAND

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 WASHINGTON, D. C. 20540
 21 OCT. 1968

DESIGNATION OF BENCH MARK

Designation of bench mark Re-13 State Maryland County Allegany
 Nearest town Oldtown County Allegany

Detailed description of location
 Distance and direction from nearest town 16.0 miles northeast of, along Western Maryland R.R., from the station at Oldtown, set in the southeast corner of railroad bridge No. 1348, 9 rails north of mile-post No. 135, 23 feet west of the west rail of the track. A standard disk stamped "Re-13 1911".

DESCRIPTION OF BENCH MARK

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 WASHINGTON, D. C. 20540
 21 OCT. 1968

Designation of bench mark Re-13 State Maryland County Allegany
 Nearest town Oldtown County Allegany

Detailed description of location
 Distance and direction from nearest town 15.0 miles northeast of, along Western Maryland R.R., from the station at Oldtown, set in the northeast corner of railroad bridge No. 1360, 23 1/2 feet east of mile-post No. 136, 107 feet east of the east rail of the track, at the south end of a deep cut. A standard disk stamped "Re-13 1911".

THE LINE RE-ENTERS WEST VIRGINIA

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 WASHINGTON, D. C. 20540
 21 OCT. 1968

DESIGNATION OF BENCH MARK

Designation of bench mark Re-77 State West Virginia County Morgan
 Nearest town Oldtown (Maryland) County Allegany

Detailed description of location
 Distance and direction from nearest town 11.5 miles northeast of, along Western Maryland R.R., from the station at Oldtown, 7 1/4 rails east of mile-post No. 137, set in the north corner of signal tower No. 1365, 10 feet southwest of the southeast rail of the track. A standard disk stamped "Re-77 1911".

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 WASHINGTON, D. C. 20540
 21 OCT. 1968

DESIGNATION OF BENCH MARK

Designation of bench mark Re-77 State West Virginia County Morgan
 Nearest town Oldtown (Maryland) County Allegany

Detailed description of location
 Distance and direction from nearest town 13.0 miles northeast along the Western Maryland Railroad from the station at Oldtown, 35.3 feet east of mile-post No. 139, set in the top of a large rock boulder, between the track and a deep cut, about 5 feet below the track level, 19.2 feet northeast of the northeast rail of the track. A standard disk stamped "Re-77 1911".

DESCRIPTION OF BENCH MARK

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 WASHINGTON, D. C. 20540
 21 OCT. 1968

Designation of bench mark Re-77 State West Virginia County Morgan
 Nearest town Oldtown (Maryland) County Allegany

Detailed description of location
 Distance and direction from nearest town 12.3 miles northeast of, along Western Maryland R.R., from the station at Oldtown, 14 rails northeast of mile-post No. 139, set in the north corner of an old signal tower, 16 feet northeast of signal tower No. A-1368, 109 feet northeast of the west corner of a meekman shack, 29.2 feet northeast of the northeast rail of the main track. A standard disk stamped "Re-77 1911".

DESCRIPTION OF BENCH MARK

THE LINE RE-ENTERS MARYLAND

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 WASHINGTON, D. C. 20540
 21 OCT. 1968

DESIGNATION OF BENCH MARK

Designation of bench mark Re-13 State Maryland County Allegany
 Nearest town Oldtown County Allegany

Detailed description of location
 Distance and direction from nearest town 10.7 miles northeast of, along Western Maryland R.R., from the station at Oldtown, 13 rails southeast of mile-post No. 140, set in the north corner of the west abutment of the north headwall of the bridge No. 1396, 16 feet southeast of an old signal tower base, 19.8 feet west of the west rail of the track. A standard disk stamped "Re-13 1911", and set vertically.

OCTOBER 1967

VERTICAL CONTROL DATA

QUAD 390781 PAGE NO. 7
PA-MD-W VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NJ 17-3 CUMBERLAND
LINES 101, 102

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

by the
Coast and Geodetic Survey
SEA LEVEL DATUM OF 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FAC. OR. 118

THE LINE RE-ENTERS WEST VIRGINIA

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FAC. OR. 118

DESCRIPTION OF BENCH MARK

Designation of bench mark W-77 State West Virginia County Morgan
Nearest town Oldtown (Maryland) County Allegheny
Distance and direction from nearest town 9.7 miles east of, along Western Maryland R.R.
Detailed description of location

9.7 miles east along the Western Maryland Railroad from the station at Oldtown, 30 rails south of mile-post No. 111, set in the southeast corner of the east headwall at the north end of bridge No. 111, 4-1/2 feet east of the east rail of the track. A standard disk stamped "W-77 1941".

THE LINE RE-ENTERS MARYLAND

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FAC. OR. 118

DESCRIPTION OF BENCH MARK

Designation of bench mark W-13 State Maryland County Allegheny
Nearest town Oldtown County Allegheny
Distance and direction from nearest town 8.8 miles east of, along Western Maryland R.R.
Detailed description of location

8.8 miles east along the Western Maryland Railroad from the station at Oldtown, 26 rails south of mile-post No. 112, 2 feet north of the 5th. telegraph pole north of a crossing, 111 feet east of the southeast corner of a large 2-story farm house, 30 feet east of the east rail of the track, 26.9 feet northeast of a white stand, 0.8 foot west of a white marker post stenciled U.S.S.M. A standard disk stamped "W-13 1941" and set in the top of a pre-cast concrete post.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FAC. OR. 118

DESCRIPTION OF BENCH MARK

Designation of bench mark W-13 State Maryland County Allegheny
Nearest town Oldtown County Allegheny
Distance and direction from nearest town 8.1 miles east of, along Western Maryland R.R.
Detailed description of location

8.1 miles east along the Western Maryland Railroad from the station at Oldtown, 17 rails north of mile-post No. 113, set in the center of an old signal tower base, 22.8 feet east of the east rail of the main track, on the west edge of the easel. A standard disk stamped "W-13 1941".

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FAC. OR. 118

DESCRIPTION OF BENCH MARK

Designation of bench mark W-13 State Maryland County Allegheny
Nearest town Oldtown County Allegheny
Distance and direction from nearest town 7.2 miles east of, along Western Maryland R.R.
Detailed description of location

7.2 miles east along the Western Maryland Railroad from the station at Oldtown, set in the southeast corner of signal tower No. A-1139, 35 rails east of mile-post No. 114, 5.5 feet east of the "Fairplay" sign post, at the west end of a siding, 11 feet north of the north rail of the track. A standard disk stamped "W-13 1941".

LINE 102

102 (B. & O. R. R.) --- About 1 mile southeast along the Baltimore & Ohio Railroad from Round Top, Morgan County, about 150 feet east of milepost B 127, north of the tracks, and in a rock outcrop. A copper bolt.

105 (B. & O. R. R.) --- About 1/2 mile south along the Baltimore & Ohio Railroad from Sir Johns Run, Morgan County, about 400 feet west of milepost B 130, at a culvert, and in the top of the south coping. A copper bolt.

106 (B. & O. R. R.) --- About 1 mile east of Great Cacapon, Morgan County, about 200 feet east of milepost B 131, and in a large rock north of the tracks. A copper bolt. (133.071 meters or 436.584 feet.)

110 (B. & O. R. R.) --- About 0.8 mile east along the Baltimore & Ohio Railroad from Lineburg, Morgan County, opposite pole 135/4, and in a rock south of the tracks. A copper bolt.

111 (B. & O. R. R.) --- About 0.2 mile west along the Baltimore & Ohio Railroad from Lineburg, Morgan County, opposite milepost B 136. The top of a rail set vertically between the tracks.

112 (B. & O. R. R.) --- About 1-1/4 miles west along the Baltimore & Ohio Railroad from Lineburg, Morgan County, 25 feet north of milepost B 137, and in a rock east of the tracks. A copper bolt.

125 (B. & O. R. R.) --- About 1 mile southeast along the Baltimore & Ohio Railroad from Magnolia, Morgan County, opposite milepost B 150. The top of a rail set vertically between the tracks.

126 (B. & O. R. R.) --- About 2 miles south along the Baltimore & Ohio Railroad from Magnolia, Morgan County, opposite milepost B 151, and in rock. A copper bolt.

127 (B. & O. R. R.) --- About 1 mile northeast along the Baltimore & Ohio Railroad from Paw Paw, Morgan County, opposite milepost B 152, and in the top of a rock southeast of the tracks. A copper bolt.

132 (B. & O. R. R.) --- Near Little Cacapon, Hampshire County, on the Baltimore & Ohio Railroad, about 600 feet east of milepost B 157, south of the tracks, at the site of old bridge 59, in the bridge seat of the west abutment, and between the center lines of the old tracks. A copper bolt.

OCTOBER 1967

U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

VERTICAL CONTROL DATA
by the
Coast and Geodetic Survey
SEA LEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 8
PA-MD-N VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NJ 17-3 CUMBERLAND

LINE 103

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FORM NO. 103
APR. 1958

DESCRIPTION OF BENCH MARK

Designation of bench mark **P-152** State **Pennsylvania** County **Franklin**
Nearest town **Harrocks (Pa.)** County **Washington**
Distance and direction from nearest town **9.0 miles northwest of, along County road.**

Detailed description of location
1.3 miles southeast along the Western Maryland Railroad from the station at Harrocks, thence 1.3 miles northeast along County road, thence 1.2 miles northwest along County road, set at the intersection of the main road and a private road leading northwest to farm house, 23 feet north of the center-line of the main road, 18 feet east of center-line of private road, 1.2 feet south of a white marker post. A standard disk set in top of a concrete post, stamped **P 152 1942"**

DESCRIPTION OF BENCH MARK

Designation of bench mark **Q-152** State **Pennsylvania** County **Palton**
Nearest town **Harrocks (Pa.)** County **Washington**
Distance and direction from nearest town **11.2 miles northwest of, along old road.**

Detailed description of location
1.3 miles southeast along the Western Maryland Railroad from the station at Harrocks, thence 1.3 miles northeast along County road, thence 2.6 miles northwest along old road, set in the top of a rock boulder on the southwest bank of Licking Creek, 19 feet east of the center-line of the old road, 29 feet northwest of a 12-inch tree with a triangular blaze on the south side, 7 feet south of an 8-inch tree with a triangular blaze on the south side of tree, 7 feet southwest of the southwest edge of creek. A standard disk, stamped **Q 152 1942"**

DESCRIPTION OF BENCH MARK

Designation of bench mark **T-116** State **Pennsylvania** County **Palton**
Nearest town **Harrocks (Pa.)** County **Washington**
Distance and direction from nearest town **12.7 miles northeast of, along County road.**

Detailed description of location
1.3 miles southeast along the Western Maryland Railroad from the station at Harrocks, thence 1.3 miles northeast along County road, thence 1.1 miles northwest along old County road, set at the intersection of the old road leading east to the ford and the paved County road, 27 feet east of the center-line of the paved road, 21 feet south of center-line of the old road, 7 feet east of a forked tree with a triangular blaze on the north side of the tree near the base. A standard disk set in top of a concrete post, stamped **T 148 1942"**

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FORM NO. 103
APR. 1958

DESCRIPTION OF BENCH MARK

Designation of bench mark **TT-6-D (0808)** State **Pennsylvania** County **Palton**
Nearest town **Harrocks (Pa.)** County **Washington**
Distance and direction from nearest town **11.1 miles northeast of, along State Highway No. 928.**

Detailed description of location
1.3 miles southeast along the Western Maryland Railroad from the station at Harrocks, thence 1.3 miles northeast along County road, thence 5.6 miles northwest along State Highway No. 928, set in the southwest corner of the County School building porch, 0.1 mile east of 80,928, 8 feet southwest of the west edge of the front or south entrance, 3 feet northeast of the southwest corner of porch. A standard U. S. Geological Survey disk. Stamped **"TT 6 D 1934"**

DESCRIPTION OF BENCH MARK

Designation of bench mark **R-116** State **Pennsylvania** County **Palton**
Nearest town **McConnellsburg** County **Palton**
Distance and direction from nearest town **13.5 miles southwest of, along State Highway No. 928.**

Detailed description of location
6.5 miles southwest along U. S. Highway No. 922 from the Palton County National Bank at McConnellsburg, thence 7 miles south along State Highway No. 928, set along fence line and at a gate entrance into field, 21 feet northwest of center-line of Highway, 7 feet northeast of northeast gate post, 0.1 mile southwest of a 2-story tan farm house, 1.2 feet southwest of the right-of-way fence, 33 feet southwest of Highway marker No. 2-20. A standard disk set in top of a concrete post, stamped **"U 148 1942"**

DESCRIPTION OF BENCH MARK

Designation of bench mark **5R (0808)** State **Pennsylvania** County **Palton**
Nearest town **McConnellsburg** County **Palton**
Distance and direction from nearest town **12.5 miles southwest of, along State Highway No. 928.**

Detailed description of location
6.5 miles southwest along U. S. Highway No. 922 from the Palton County National Bank at McConnellsburg, thence 6 miles south along State Highway No. 928, set in the northwest corner of the southwest abutment of the large steel bridge over Licking Creek, 8 feet northeast of the center-line of the Highway, standard U. S. Geological Survey disk, stamped **"5R"**
1950 Report - Mark in fair condition. Stamping not legible.
Apr. 1963 Report - To be reset.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FORM NO. 103
APR. 1958

DESCRIPTION OF BENCH MARK

Designation of bench mark **T-116** State **Pennsylvania** County **Palton**
Nearest town **Harrocks (Pa.)** County **Washington**
Distance and direction from nearest town **12.7 miles northeast of, along County road.**

Detailed description of location
1.3 miles southeast along the Western Maryland Railroad from the station at Harrocks, thence 1.3 miles northeast along County road, thence 1.1 miles northwest along old County road, set at the intersection of the old road leading east to the ford and the paved County road, 27 feet east of the center-line of the paved road, 21 feet south of center-line of the old road, 7 feet east of a forked tree with a triangular blaze on the north side of the tree near the base. A standard disk set in top of a concrete post, stamped **T 148 1942"**

OCTOBER 1967

U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

VERTICAL CONTROL DATA

by the
Coast and Geodetic Survey
SEALEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 9
PA-MD-V VA 39°30' to 40°00'
LATITUDE 78°00' to 78°30'
LONGITUDE DIAGRAM NJ 17-3 CUMBERLAND
LINES 103, 104

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Ft. Belknap, Md.
Ed. Feb. 1961

DESCRIPTION OF BENCH MARK

Designation of bench mark **V-114B** State **Pennsylvania** County **Fulton**
Nearest town **McConnellsburg** County **Fulton**
Distance and direction from nearest town **11.3 miles southwest of, along State Highway No. 928.**

Detailed description of location

6.5 miles southwest along U. S. Highway No. 522 from the Fulton County National Bank at McConnellsburg, thence 4.8 miles south along State Highway No. 928, set in a rock boulder on the west slope of mountain, 71.5 feet east of the southeast corner of the 2-story farm house, 38 feet northeast of the center-line of the east end of the pipe culvert under highway, 33 feet east of center-line of highway. A standard disk set about 4 feet above road level.
Stamped "V 148 1942"

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Ft. Belknap, Md.
Ed. Feb. 1961

DESCRIPTION OF BENCH MARK

Designation of bench mark **W-114B** State **Pennsylvania** County **Fulton**
Nearest town **McConnellsburg** County **Fulton**
Distance and direction from nearest town **9.9 miles southwest of, along State Highway No. 928.**

Detailed description of location

6.5 miles southwest along U. S. Highway No. 522 from the Fulton County National Bank at McConnellsburg, thence 3.4 miles south along State Highway No. 928, set at the summit of a small hill, on the east edge of a cultivated field, 25 feet west of center-line of the highway, 12 feet south of the center-line of an old wagon road leading west into field, 18 feet northeast of a 10-inch tree with a triangular glass on the east side of tree facing highway. A standard disk set in top of a concrete post. Stamped "W 148 1942"

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Ft. Belknap, Md.
Ed. Feb. 1961

DESCRIPTION OF BENCH MARK

Designation of bench mark **X-114B** State **Pennsylvania** County **Fulton**
Nearest town **McConnellsburg** County **Fulton**
Distance and direction from nearest town **8.8 miles southwest of, along State Highway No. 928.**

Detailed description of location

6.5 miles southwest along U. S. Highway No. 522 from the Fulton County National Bank at McConnellsburg, thence 2.1 miles south along State Highway No. 928, set at the southeast corner of the southeast guard rail wall of the large concrete bridge over Cove Creek, 80 feet northeast of center-line of the highway, 7 feet southwest of center-line of side road leading northwest, 3 feet above road level. A standard disk, stamped "X 148 1942"
Recovered as Described - 1954.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Ft. Belknap, Md.
Ed. Feb. 1961

DESCRIPTION OF BENCH MARK

Designation of bench mark **Y-114B** State **Pennsylvania** County **Fulton**
Nearest town **McConnellsburg** County **Fulton**
Distance and direction from nearest town **7.7 miles southwest of, along State Highway No. 928.**

Detailed description of location

6.5 miles southwest along U. S. Highway No. 522 from the Fulton County National Bank at McConnellsburg, thence 1.2 miles south along State Highway No. 928, set in the southeast corner of the southeast abutment of the wooden bridge at the intersection of the highway and a side road leading northeast, where the two creeks meet, 13 feet southeast of center-line of the highway, 28 feet north of center-line of the side road. A standard disk, stamped "Y 148 1942"

LINE 104

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Ft. Belknap, Md.
Ed. Feb. 1961

DESCRIPTION OF BENCH MARK

Designation of bench mark **Z-55** State **Maryland** County **Washington**
Nearest town **Beesook** County **Washington**
Distance and direction from nearest town **5.3 miles northwest of, along County road.**

Detailed description of location

4.3 miles southeast along the Western Maryland Railroad from the station at Beesook, thence 1 mile north along County road, at the intersection of the main road and a private road leading north to a 2-story green farm house, 30 feet northwest of the center-line of the main road, 13 feet east of the center-line of the private road, 18 feet north of the north corner of the southwest headwall of a twin pipe culvert under main road. A standard disk set in a rock out-crop, flush with the ground, stamped "B 55 1942"

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Ft. Belknap, Md.
Ed. Feb. 1961

DESCRIPTION OF BENCH MARK

Designation of bench mark **A-55** State **Maryland** County **Washington**
Nearest town **Beesook** County **Washington**
Distance and direction from nearest town **6.5 miles northeast of, along County road.**

Detailed description of location

4.3 miles southeast along the Western Maryland Railroad from the station at Beesook, thence 2.0 miles northeast along County road, set in the south corner of the east abutment of a large concrete and stone bridge in a small valley, about 0.7 mile southwest of a cross road, 18 feet south of the center-line of the road. A standard disk, stamped "A 55 1942"

VERTICAL CONTROL DATA

by the
Coast and Geodetic Survey
SEA LEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 10
PA-MD-N VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NJ 17-3 CUMBERLAND

THE LINE ENTERS PENNSYLVANIA

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
OFFICE OF THE ASSISTANT CHIEF OF BUREAU
WASHINGTON, D. C. 20541

DESCRIPTION OF BENCH MARK

DESCRIPTION OF BENCH MARK

Designation of bench mark **IM-152** State **Pennsylvania** County **Franklin**
Nearest town **Blauvelt (Md.)** County **Washington**
Distance and direction from nearest town **0.6 miles northwest of, along State Highway No. 156.**

Designation of bench mark **L-152** State **Pennsylvania** County **Franklin**
Nearest town **Merersburg** County **Franklin**
Distance and direction from nearest town **10.1 miles southwest of, along State Highway No. 156.**

Detailed description of location
0.6 miles southeast along the Western Maryland Railroad from the station at Blauvelt, thence 0.3 miles northwest along State Highway (Pa.) No. 156, set in the north corner of the east retaining wall of the steel bridge over Kelling Creek, at the intersection of No. 156 and a side road leading west, 18 feet east of center-line of highway, 2.5 feet above road level. A standard disk stamped "N 152 1942"

Detailed description of location
10.1 miles southwest along State Highway No. 156 from the Post Office at Merersburg, set in the northeast face at the east corner of a large brick barn, 88 feet northeast of the center-line of the highway, 2.7 feet above the ground level, 1.8 feet northwest of the east corner of the building. A standard disk set vertically, stamped "L 152 1942"

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
OFFICE OF THE ASSISTANT CHIEF OF BUREAU
WASHINGTON, D. C. 20541

DESCRIPTION OF BENCH MARK

Designation of bench mark **M-152** State **Pennsylvania** County **Franklin**
Nearest town **Blauvelt (Md.)** County **Washington**
Distance and direction from nearest town **9.9 miles northwest of, along State Highway No. 156.**

Designation of bench mark **L-152** State **Pennsylvania** County **Franklin**
Nearest town **Merersburg** County **Franklin**
Distance and direction from nearest town **9.2 miles southwest of, along State Highway No. 156.**

Detailed description of location
0.3 miles southeast along the Western Maryland Railroad from the station at Blauvelt, thence 5.6 miles northwest along State Highway No. 156, set at the summit of a hill, in the south corner of a cultivated field, 0.3 mile southwest of intersection of highway and a side road leading southeast to Teale Hill, 23 feet northwest of the center-line of the highway, 10.5 feet southwest of the southeast gate post, 4 feet north of the corner of a white marker 3 feet northwest of the right-of-way fence, 1.3 feet southeast of a white marker post. A standard disk set in top of a concrete post, stamped "N 152 1942"

Detailed description of location
9.2 miles southwest along State Highway No. 156 from the Post Office at Merersburg, set in a rock ledge near a primitive cross roads, 92 feet southwest of the center-line of the road leading northwest to Farm house 17.7 feet southeast of center-line of the highway, 11 feet northeast of the right-of-way fence, about 1 foot above road level. A standard disk, stamped "K 152 1942"

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
OFFICE OF THE ASSISTANT CHIEF OF BUREAU
WASHINGTON, D. C. 20541

DESCRIPTION OF BENCH MARK

Designation of bench mark **TT-1-D 0808** State **Pennsylvania** County **Franklin**
Nearest town **Blauvelt (Md.)** County **Washington**
Distance and direction from nearest town **10.0 miles northwest of, along State Highway No. 156.**

Designation of bench mark **TT-3-D 0808** State **Pennsylvania** County **Franklin**
Nearest town **Merersburg** County **Franklin**
Distance and direction from nearest town **8.2 miles southwest of, along State Highway No. 156.**

Detailed description of location
0.3 miles southeast along the Western Maryland Railroad from the station at Blauvelt, thence 6.5 miles northwest along State Highway No. 156, set in the south corner of the middle or second concrete stop at the southwest entrance to the Methodist Church, 0.53 feet northwest of the center-line of the highway, 7.5 feet east of the north corner of the building, 3.6 feet southeast of the southeast edge of the southeast entrance. A standard U.S. Geological Survey disk, stamped "TT-1-D USGS 1934"

Detailed description of location
8.2 miles southwest along State Highway No. 156 from the Post Office at Merersburg, set in the southwest face at the south corner of a large stone farm house between 2 sharp turns in highway, 45 feet northeast of center-line of highway, 50 feet northeast of the fence around yard, 0.7 feet northwest of east corner of house, 3.7 feet above ground. A standard U.S. Geological Survey disk set vertically, stamped "TT 3 D 1934"

OCTOBER 1967

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

VERTICAL CONTROL DATA

by the
Coast and Geodetic Survey
SCALE LEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 11
PA-WD-W VA 39°30' to 40°00'
LATITUDE 78°00' to 78°30'
LONGITUDE NJ 17-3 CUMBERLAND
DIAGRAM

LINES 101, 101'

P 99 (P.D.H.)--6.3 miles southwest along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, at the east end of a bridge, in the top of the north wing wall, and 15 feet west of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "P 99 1935". Recovered as Described-1942

Q 99--8.1 miles southwest along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, 246 feet northeast of the northeast corner of Ali's service station and lunch room, and 27 feet east of the center line of the highway. A standard disk, stamped "Q 99 1935" and set in the top of a concrete post.

R 99 (P.D.H.)--10.2 miles southwest along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, at a concrete bridge over Licking Creek in the top of the north end of the northeast wing wall, and 15 feet northwest of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "R 99 1935".

S 99--10.9 miles southwest along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, 90 feet southwest of the Iruanx service station, and 60 feet northwest of the center line of the highway. A standard disk, stamped "S 99 1935" and set in the top of a concrete post.

T 99 (P.D.H.)--12.4 miles southwest along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, 156 feet west of the southwest corner of the Mallott service station, at the north end of a bridge, in the top of the east wing wall, and 15 feet north of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "T 99 1935".

U 99 (P.D.H.)--In Fulton County, Pennsylvania, 12.4 miles north along U.S. Highway 522 from the Hancock Bank building at Hancock, Washington County, Maryland, at the north end of concrete bridge, in the top of the northeast wing wall, and 15 feet north of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "U 99 1935".

V 99 (P.D.H.)--In Fulton County, Pennsylvania, 12.1 miles north along U.S. Highway 522 from the Hancock Bank building at Hancock, Washington County, Maryland, at the north end of a bridge, in the top of the northeast wing wall, and 15 feet north of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "V 99 1935".

W 99--In Fulton County, Pennsylvania, 11.4 miles north along U.S. Highway 522 from the Hancock Bank building at Hancock, Washington County, Maryland, 21 feet northwest of the center line of the highway, and 1 foot southeast of a fence. A standard disk, stamped "W 99 1935" and set in the top of a concrete post.

X 99--In Fulton County, Pennsylvania, 9.3 miles north along U.S. Highway 522 from the Hancock Bank building, at Hancock, Washington County, Maryland, 21 feet south of the center line of the highway, and 6 feet south of a south guardrail. A standard disk, stamped "X 99 1935" and set in the top of a concrete post.

DESCRIPTION OF BENCH MARK

Designation of bench mark J-152 State Pennsylvania County Franklin
Nearest town McConnorsburg County Franklin
Distance and direction from nearest town 7.1 miles southeast of, along State Highway No. 152.

Detailed description of location

7.1 miles southeast along State Highway No. 152 from the Post Office at McConnorsburg, set in the west corner of an old concrete foundation at the north corner of a field, near the old stone foundation of a house, 27 feet southeast of the center-line of the highway, 8.8 feet southeast of the right-of-way fence, about 0.15 mile east of a stone 2-story farm house. A standard disk, stamped "J 152 1942"

LINE 105

H 99 (P.D.H.)--0.7 mile south along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, at the west abutment of a concrete bridge, in the top of the north end, and 12 feet west of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "H 99 1935". Recovered as Described-1942

J 99--1.8 miles south along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, 153 feet south of light-wire pole 11-675, and 15 feet west of the center line of the highway. A standard disk, stamped "J 99 1935" and set in the top of a concrete post.

K 99 (P.D.H.)--2.0 miles south along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, at the north end of a concrete bridge, in the top of the west wall, and 12 feet west of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "K 99 1935".

L 99--3.7 miles south along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, 372 feet southeast of the main entrance gate of Union Cemetery, 15 feet west of the center line of the highway, and 8 feet south of a light-wire pole. A standard disk, stamped "L 99 1935" and set in the top of a concrete post.

M 99--5.5 miles south along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, 171 feet west of the northwest corner of the Heber Hill post office, and 18 feet south of the center line of the highway. A standard disk, stamped "M 99 1935" and set in the top of a concrete post.

N 99 (P.D.H.)--6.0 miles southwest along U.S. Highway 522 from the Fulton County National Bank at McConnellsburg, Fulton County, at a concrete bridge over Big Cove Creek, in the top of the west end of the north wing wall, and 15 feet west of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "N 99 1935". Recovered as Described-1942

VERTICAL CONTROL DATA

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

Coast and Geodetic Survey SCALE LEVEL DATUM OF 1929

QUAD 390781 PAGE NO.12 PA-MD-W VA LATITUDE 39°30' to 40°00' LONGITUDE 78°00' to 78°30' DIAGRAM NO 17-3 CUMBERLAND

Y 99.--In Fulton County, Pennsylvania, 7.4 miles north along U.S. Highway 522 from the Hancock Bank building at Hancock, Washington County, Maryland, 42 feet southwest of the junction of a private farm drive leading east, and 22 feet west of the center line of the highway. A standard disk, stamped "Y 99 1935" and set in the top of a concrete post.

C 11 (U.S.G.S.)--In Fulton County, Pennsylvania, 6.9 miles north along U.S. Highway 522 from the Hancock Bank building at Hancock, Washington County, Maryland, 2.5 miles north of HALLOGBLUE, and 54 feet east of the center line of the highway. A United States Geological Survey standard disk, stamped "C 11 1925" and set in the top of a concrete post.

Form 6894 (11-6-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Designation Z 99 (FPH) State PENNSYLVANIA County FULTON Nearest town WARPODSBURG Distance and direction from nearest town AT WARPODSBURG Character of mark BENCH MARK DISK Established by PENNSYLVANIA DEPARTMENT OF HIGHWAY Present condition GOOD Detailed report FOUND AS INSCRIBED

In Fulton County, Pennsylvania, 4.8 miles north along U.S. Highway 522 from the Hancock Bank building at Hancock, Washington County, Maryland, at the north end of a bridge over Tomoloway Creek, in the top of the west wing wall of the north abutment, and 15 feet west of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "Z 99 1935".

DESCRIPTION OF BENCH MARK

Designation SCOTT AZI State PENNSYLVANIA County FULTON Nearest town WARPODSBURG Distance and direction from nearest town AT WARPODSBURG Character of mark TRIANGULATION AZIMUTH DISK Established by COAST & GEODETIC SURVEY Detailed description At Warfordsburg in the north edge of the city. At the overpass of Highway 522 over the Interstate highway. Set in top of the handsker on later of the overpass. This disk is now under the wall in the top of the handsker on the bridge. Set in horizontal and about 3 feet above the floor of the bridge.

Form 6894 (11-6-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Designation C 10 (USGS) State PENNSYLVANIA County FULTON Nearest town WARPODSBURG Distance and direction from nearest town AT WARPODSBURG Character of mark Standard disk set in horizontal Established by U.S. Geological Survey Present condition Good Detailed description About 0.7 mile south along State RY 126 from the junction of State RY 126 and U.S. 522 (overhead bridge) in the north east edge of Warfordsburg, STANDARD BENCH MARK DISK (IML120) IN VERTICAL. In north west pier of overhead bridge, 10 feet west of the west edge of west lane of RY 126, 32 feet north of concrete drain culvert, about 2 feet above the level of the ground.

This mark has been searred, condition good. NOTE: It was reported in October 1960 that this mark had been moved from the step as described below and is now in the retaining wall about 4 feet above the blacktop parking area.

ORIGINAL DESCRIPTION:--In Fulton County, Pennsylvania, 4.5 miles north along Highway 522 from the Hancock Bank Bldg. in Hancock, Washington County, Maryland, at a church, in the top of the concrete step, 24 feet east of the centerline of the highway, and 8 feet west of a gate. A U.S. Geological Survey standard disk, stamped "C 10 1925".

DESCRIPTION OF BENCH MARK

Designation X 265 State PENNSYLVANIA County FULTON Nearest town WARPODSBURG Distance and direction from nearest town AT WARPODSBURG Character of mark BENCH MARK DISK Established by CGCS Detailed description About 1.6 mile south along State RY 126 from the junction of State RY 126 and U.S. 522 (overhead bridge) in the north east edge of Warfordsburg, STANDARD TRIANGULATION REFERENCE MARK DISK SET IN TOP OF CONCRETE POST on the embankment which separates the access road an highway.

DESCRIPTION OF BENCH MARK

Designation BANK NO. 2 State PENNSYLVANIA County FULTON Nearest town WARPODSBURG Distance and direction from nearest town 1.8 mile south of Character of mark REFERENCE MARK DISK Established by CGCS Detailed description About 1.6 mile south along State RY 126 from the junction of State RY 126 and U.S. 522 (overhead bridge) in the north east edge of Warfordsburg, STANDARD TRIANGULATION REFERENCE MARK DISK SET IN TOP OF CONCRETE POST on the embankment which separates the access road an highway.

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OCTOBER 1967

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

VERTICAL CONTROL DATA

by the
Coast and Geodetic Survey
SEA LEVEL DATUM OF 1929

QUAD 390781

PAGE NO. 13

PA-MID-W VA 39°30' to 40°00'
LATITUDE 78°00' to 78°30'
LONGITUDE DLAORAM NJ 17-3 CUMBERLAND

LINE 105

DESCRIPTION OF BENCH MARK

Designation BANK NO. 1
Nearest town WARFORSBURG
Distance and direction from nearest town 1.8 mile south of
Character of mark REFERENCE MARK DISK
Established by CGCS
Detailed description About 1.8 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD TRIANGULATION REFERENCE MARK DISK SET IN TOP OF CONCRETE POST ON HIGH KNOLL ON THE EAST SIDE OF HY. 126 AND TO THE EAST OF THE ACCESS ROAD WHICH PARALLELS THE HIGHWAY.

DESCRIPTION OF BENCH MARK

Designation STATE LINE NO. 2
Nearest town WARFORSBURG
Distance and direction from nearest town 2.6 mile south of
Character of mark BENCH MARK DISK
Established by CGCS
Detailed description About 2.6 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD TRIANGULATION REFERENCE MARK DISK drilled in large rock west of Hy. 126. On the Maryland side.

DESCRIPTION OF BENCH MARK

Designation BANK STATION
Nearest town WARFORSBURG
Distance and direction from nearest town 1.8 mile south of
Character of mark STATION DISK
Established by CGCS
Detailed description About 1.8 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD TRIANGULATION DISK ON HIGH KNOLL ON EAST SIDE OF HY. 126 AND TO THE EAST OF THE ACCESS ROAD WHICH PARALLELS THE HIGHWAY. Set in top of a concrete post.

DESCRIPTION OF BENCH MARK

Designation of bench mark
Nearest town Hancock, Md.
Distance and direction from nearest town 2.6 miles north of Hancock Bank Bldg. at Hancock, Md.
Detailed description of location

DESCRIPTION OF BENCH MARK

Designation STATE LINE NO. 1
Nearest town WARFORSBURG
Distance and direction from nearest town 2.6 mile south of
Character of mark REFERENCE MARK DISK
Established by CGCS
Detailed description About 2.6 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD TRIANGULATION REFERENCE MARK DISK SET IN TOP OF CONCRETE POST ON THE PENNSYLVANIA SIDE WEST OF THE HY. 126.

DESCRIPTION OF BENCH MARK

Designation STATE LINE MON
Nearest town HANCOCK
Distance and direction from nearest town 1.3 mile north of
Character of mark ROCK MONUMENT
Established by
Detailed description About 1.3 mile north along U.S. Highway 522 from the city limits of Hancock, Maryland to the Maryland-Pennsylvania State line. One of two monuments on the east side of the highway, a square rock monument which is projecting about 3 feet and comes to a point on the top. This monument is not to good for leveling but was leveled to due to a traverse line run by triangulation, the other monument mentioned is about 5 feet west of monument described and about 8 feet tall.

DESCRIPTION OF BENCH MARK

Designation STATE LINE STATION
Nearest town WARFORSBURG
Distance and direction from nearest town 2.6 mile south of
Character of mark STATION DISK
Established by CGCS
Detailed description About 2.6 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD TRIANGULATION STATION DISK SET IN TOP OF CONCRETE POST ABOUT 70 FEET WEST OF HY. 126. At the Pennsylvania-Maryland State line on the Pennsylvania side and in the fence line.

DESCRIPTION OF BENCH MARK

Designation of bench mark
Nearest town Hancock, Md.
Distance and direction from nearest town 0.8 miles north of Hancock Bank Bldg. at Hancock
Detailed description of location

THE LINE ENTERS MARYLAND

0.8 mile north along U.S. Highway 522 from the Hancock Bank building at Hancock, Washington County, 1.0 mile south of the Maryland-Pennsylvania State line, and 16 feet west of the center line of the highway. A standard disk, stamped up 14 1935" and set in the top of a concrete post.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
22 OCT. 1967

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
22 OCT. 1967

VERTICAL CONTROL DATA

by the
Coast and Geodetic Survey
SCALE LEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 14
RA-4D-R VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NJ 17-3 CUMBERLAND

DESCRIPTION OF BENCH MARK

Designation **JO 1**
State **WASHINGTON**
County **WASHINGTON**
Nearest town **HANCOCK**
Distance and direction from nearest town **ABOUT 0.4 mile north**
Character of mark **BENCH MARK DISK**
Established by **CONSTR & GEODETIC SURVEY**
Detailed description **About 0.4 mile north of the city limits of Hancock, also about 0.9 of a mile south along U.S. Highway 522 from the Maryland-Pennsylvania State line, set in the top center of the headwall for a 14 foot pipe culvert, with plugwall, 20 feet east of the centerline and about level with the highway drilled in horizontal.**

LINE 106

DESCRIPTION OF BENCH MARK

Designation **W 265**
State **PENNSYLVANIA**
County **FULTON**
Nearest town **WARFORSBURG**
Distance and direction from nearest town **AT WARFORSBURG**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 0.7 mile north along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL in north west wingwall of concrete bridge, 13 feet west of the west edge of the west lane of Hy. 126.**

DESCRIPTION OF BENCH MARK

Designation **V 265**
State **PENNSYLVANIA**
County **FULTON**
Nearest town **WARFORSBURG**
Distance and direction from nearest town **1.7 mile north of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 1.7 mile north along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL in top of north west headwall of concrete bridge, 12 feet west of the west edge of west lane of Hy. 126, 29 feet south of concrete drain culvert.**

DESCRIPTION OF BENCH MARK

Designation **U 265**
State **PENNSYLVANIA**
County **FULTON**
Nearest town **WARFORSBURG**
Distance and direction from nearest town **2.8 mile north of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 2.8 mile north along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD BENCH MARK DISK DRILLED IN VERTICAL in north west pier of overhead bridge, 18 inches above the ground, 11 feet north west of the north wallledge of north west lane of State Hy. 126.**

DESCRIPTION OF BENCH MARK

Designation **T 265**
State **PENNSYLVANIA**
County **FULTON**
Nearest town **WARFORSBURG**
Distance and direction from nearest town **3.6 mile north of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 3.6 mile north along State Hy. 126 from the junction of State Hy. 126 and U.S. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD BENCH MARK DISK DRILLED VERTICAL in south west pier of overhead bridge, 10 feet south south west of the south edge of south lane of State Hy. 126, 16 inches above ground, 15 feet east of concrete drain culvert.**

DESCRIPTION OF BENCH MARK

Designation **S 265**
State **PENNSYLVANIA**
County **FULTON**
Nearest town **WARFORSBURG**
Distance and direction from nearest town **4.4 mile north of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 4.4 mile north along State Hy. 126 from the junction of State Hy. 126 and U.S. 522 (overhead bridge) in the north east edge of WARFORSBURG, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL 14 inches east end of concrete culvert, 24 feet south-south west of the south edge of south lane of Hy. 126, 6 feet above concrete bank drain.**

DESCRIPTION OF BENCH MARK

Designation **DEMEN NO. 1**
State **PENNSYLVANIA**
County **FULTON**
Nearest town **WARFORSBURG**
Distance and direction from nearest town **5.3 mile north west of**
Character of mark **REFERENCE MARK DISK**
Established by **CGCS**
Detailed description **About 5.0 mile north west along the Interstate Hy. from the interchange for U.S. 522 and Interstate Hy. at WARFORSBURG to an overpass thence about 100 yards north across strip separating the highway and blacktop farm road paralleling the highway thence 0.3 mile east on blacktop road to crest of hill and R.W., STANDARD TRIANGULATION REFERENCE MARK DISK SET IN TOP OF CONCRETE POST.**

DESCRIPTION OF BENCH MARK

Designation **DEMEN STATION**
State **PENNSYLVANIA**
County **FULTON**
Nearest town **WARFORSBURG**
Distance and direction from nearest town **5.9 mile north west of**
Character of mark **STATION DISK**
Established by **CGCS**
Detailed description **About 5.0 mile north west along Interstate Hy. from the interchange for U.S. 522 and Interstate Hy. at WARFORSBURG to an overpass thence about 100 yards north across strip separating the highway and blacktop farm road paralleling the highway thence 0.3 mile east on blacktop farm road to crest of hill and station. STANDARD TRIANGULATION STATION DISK SET IN TOP OF CONCRETE POST.**

OCTOBER 1967

VERTICAL CONTROL DATA

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY
SEA LEVEL DATUM OF 1929

QUAD 390781
PA-MD-N VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NJ 17-3 CUMBERLAND

PAGE NO. 15

LINE 106

by the

Coast and Geodetic Survey

DESCRIPTION OF BENCH MARK

Designation DENISEN NO. 2
Nearest town WARFORDSBURG
Distance and direction from nearest town 5.3 mile north west of
Character of mark REFERENCE MARK DISK
Established by CAGS
Detailed description About 5.0 mile north west along Interstate Hy. from the interchange for U.S. 522 and Interstate Hy. at WARFORDSBURG to an overpass thence about 100 yards north across strip separating the highway and blacktop farm road paralleling the highway thence 0.3 mile east on blacktop farm road to crest of hill and R.M. STANDARD TRIANGULATION REFERENCE MARK DISK SET IN TOP OF CONCRETE POST.

DESCRIPTION OF BENCH MARK

Designation DENISEN AZIMUTH
Nearest town WARFORDSBURG
Distance and direction from nearest town 5.4 mile north west of
Character of mark AZIMUTH DISK
Established by CAGS
Detailed description About 5.0 mile north west along Interstate Hy. from the interchange for U.S. 522 and Interstate Hy. at WARFORDSBURG to an overpass thence continue for 0.3 mile thence go south 0.1 to OLD Hy. 126 and azimuth mark, STANDARD AZIMUTH MARK DISK DRILLED IN HORIZONTAL IN CULVERT ON the south side of the highway, about 1/4 mi with the highway, about 22 feet south of the centerline of the road.

DESCRIPTION OF BENCH MARK

Designation TT 45 (USGS)
Nearest town WARFORDSBURG
Distance and direction from nearest town About 7.85 mile northwest
Character of mark TRAVERSE DISK
Established by U.S.G.S.
Detailed description About 7.2 mile northwest along State Highway 126 and Interstate Hy. from the underpass and interchange of U.S. Highway 522 and Interstate Highway at Warfordsburg to a crossroad, Howard Johnson's sign, thence 0.05 mile southeast on a gravel road to a "Y" junction of gravel roads, thence 0.6 mile southeast on road to a "Y" junction with a blacktop road and the BM north east of the centerline of the "Y" junction in the fence line, used as a reference mark for triangulation station point view.

DESCRIPTION OF BENCH MARK

Designation POINT VIEW STATION
Nearest town WARFORDSBURG
Distance and direction from nearest town 7.85 mile north west of
Character of mark STATION DISK
Established by CAGS
Detailed description About 7.2 mile north west along State Hy. 126 from the junction of State Hy. 126 and U.S. 522 (overhead bridge) in the north east edge of WARFORDSBURG to gravel road right and HOWARD JOHNSON'S sign on left at a crossroad, thence 0.05 mile south east on dirt road to "Y" intersection thence continue south east on dirt road for 0.6 mile to blacktop road junction and station sight; STANDARD TRIANGULATION STATION DISK SET IN TOP OF CONCRETE POST.

DESCRIPTION OF BENCH MARK

Designation POINT VIEW NO. 1
Nearest town WARFORDSBURG
Distance and direction from nearest town 7.85 mile north west of
Character of mark REFERENCE MARK DISK
Established by CAGS
Detailed description About 7.2 mile north west along State Hy. 126 from the junction of State Hy. 126 and U.S. 522 (overhead bridge) in the north east edge of WARFORDSBURG, to gravel road right and HOWARD JOHNSON'S sign on left at a crossroad, thence 0.05 mile south east on dirt road to "Y" intersection thence continue south east on dirt road for 0.6 mile to blacktop road junction and R.M. STANDARD TRIANGULATION REFERENCE MARK DISK SET IN TOP OF CONCRETE POST.

DESCRIPTION OF BENCH MARK

Designation R 265
Nearest town BREEZWOOD
Distance and direction from nearest town 14.0 mile south of
Character of mark BENCH MARK DISK
Established by CAGS
Detailed description About 14.0 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 30 in BREEZWOOD, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL in top of concrete culvert, 28 feet west of the centerline of Hy. 126, 22 feet south of the center of field road for reason of culvert, 4 feet east of STANDARD METAL WITNESS POST.

DESCRIPTION OF BENCH MARK

Designation Q 265
Nearest town BREEZWOOD
Distance and direction from nearest town 13.1 mile south of
Character of mark BENCH MARK DISK
Established by CAGS
Detailed description About 13.1 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 30 in BREEZWOOD, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL in north end of concrete drain culvert, 21 feet west-north west of the centerline of Hy. 126, 28 paces north-north east of the north east corner of ATLANTIC SERVICE STA. (BOB'S MOTOR HAYEN).

DESCRIPTION OF BENCH MARK

Designation P 265
Nearest town BREEZWOOD
Distance and direction from nearest town 12.1 mile south of
Character of mark BENCH MARK DISK
Established by CAGS
Detailed description About 12.1 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 30 in BREEZWOOD, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL in north end of concrete drain culvert, 21 feet north west of the centerline of the highway, 39 paces north-north east of SINGLAIR SERVICE STATION and RESTAURANT, NOTE: Located at the foot of an 8 foot road bank.

VERTICAL CONTROL DATA

by the
Coast and Geodetic Survey
SEA LEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 16
PA-MD-N VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NY 17-3 CUMBERLAND

DESCRIPTION OF BENCH MARK

Destination **K 265**
Nearest town **BREZZWOOD**
Distance and direction from nearest town **11.35 mile south of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 11.35 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 30 in BREZZWOOD, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL IN north end of concrete drain culvert, 21 feet north west of the centerline of Hy. 126 40 paces west-south west from the south end of guard rail on south east side of road.**
NOTE: Located at the foot of 18 foot road bank.

DESCRIPTION OF BENCH MARK

Destination **M 265**
Nearest town **BREZZWOOD**
Distance and direction from nearest town **10.5 mile south of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 10.5 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. Hy. 30 in BREZZWOOD, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL IN the north end of concrete drain culvert, 22 feet north west of the centerline of State Hy. 126, 68 paces south west of the south end of guard rail on south east side of Hy. 126, BM is located at the foot of 15 foot rock road bank.**

DESCRIPTION OF BENCH MARK

Destination **L 265**
Nearest town **BREZZWOOD**
Distance and direction from nearest town **9.65 mile south of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 9.65 mile south along State Hy. 126 from the junction of U.S. Hy. 30 and State Hy. 126 in BREZZWOOD, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL IN the north end of concrete drain culvert, 22 feet north west of the centerline of Hy. 126, (NOTE: culvert is at bottom of 18 foot road bank south east).**

DESCRIPTION OF BENCH MARK

Destination **K 265**
Nearest town **BREZZWOOD**
Distance and direction from nearest town **8.75 mile south of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 8.75 mile south along State Hy. 126 from the junction of U.S. Hy. 30 and State Hy. 126 in BREZZWOOD, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL IN concrete culvert, 24 feet west of the centerline of Hy. 126 90 feet west of north west corner of FISCHERS RESTAURANT, 12 feet north of highway (no sign).**

NOTE : This BM is located at the crest of TOWN HILL MOUNTAIN.

DESCRIPTION OF BENCH MARK

Destination **J 265 (PDH)**
Nearest town **CRYSTAL SPRING**
Distance and direction from nearest town **3.6 mile south west of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 3.6 mile south west along Old State Hy. 126 from the POST OFFICE in CRYSTAL SPRING, STANDARD BENCH MARK DISK OP P.D.H. DRILLED IN HORIZONTAL IN north west wingwall of concrete culvert over small creek, 24 feet south west of the centerline of Old State Hy. 126, 28 feet south west of the north west end of the Highway guard rail.**

NOTE: BM is approximately 250 feet south west of a two-story frame house.

DESCRIPTION OF BENCH MARK

Destination **H 265 (PH)**
Nearest town **CRYSTAL SPRING**
Distance and direction from nearest town **2.9 mile south of**
Character of mark **BENCH MARK DISK**
Established by **PENNSYLVANIA DEPARTMENT OF HIGHWAYS**
Detailed description **About 2.9 mile south west along Old State Hy. 126 from the CRYSTAL SPRING POST OFFICE IN CRYSTAL SPRING, to bridge over small creek, STANDARD BENCH MARK OP P.D.H. DRILLED IN HORIZONTAL IN north west wingwall of bridge No. 7/70, 14 feet from the center of the highway, 37 feet south west of the center of the road.**

DESCRIPTION OF BENCH MARK

Destination **G 16 (USCS)**
Nearest town **CRYSTAL SPRING**
Distance and direction from nearest town **ABOUT 2.35 mile south**
Character of mark **DISK**
Established by **J. S. G. S.**
Detailed description **About 2.35 mile south along old Highway 126 from the CRYSTAL SPRING POST OFFICE to the foundation for the church, set vertical in the north face at the north-west corner of the foundation for the church, about 2 1/2 feet above the ground, 72 feet west of the centerline and about 7 feet above the highway.**

DESCRIPTION OF BENCH MARK

Destination **G 265**
Nearest town **CRYSTAL SPRING**
Distance and direction from nearest town **1.6 mile south of**
Character of mark **BENCH MARK DISK**
Established by **CGCS**
Detailed description **About 1.6 mile south west along Old State Hy. 126 from the POST OFFICE in CRYSTAL SPRING, (BM is located on the property of MR. EARL W. AMES), STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL IN large rock (approximately 0.1 mile south of two-story frame house), 68 feet north west of the center of the road, 18 feet north east of a 24 inch Maple tree, 58 feet north west of telephone pole No. 186.**

OCTOBER 1967

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

VERTICAL CONTROL DATA

by the
Coast and Geodetic Survey
SEALEVEL DATUM OF 1929

QUAD 390781 PAGE NO. 17
PA-MD-W VA 39°30' to 40°00'
LATITUDE 78°00' to 78°30'
LONGITUDE DIAGRAM NJ 17-3 CUMBERLAND

LINE 106

DESCRIPTION OF BENCH MARK

Designation GARLAND AZIMUTH
Nearest town CRYSTAL SPRING
Distance and direction from nearest town 0.75 mile south of
Character of mark AZIMUTH MARK DISK
Established by CAGS
Detailed description About 0.75 mile south along OLD State RY. 126 from the POST OFFICE in
CRYSTAL SPRING to the azimuth on the east side of the highway, STANDARD AZIMUTH DISK
SET IN TOP OF CONCRETE POST.

DESCRIPTION OF BENCH MARK

Designation GARLAND STATION
Nearest town CRYSTAL SPRING
Distance and direction from nearest town 0.5 mile south of
Character of mark STATION DISK
Established by CAGS
Detailed description About 0.5 mile south along OLD State RY. 126 from the POST OFFICE in
CRYSTAL SPRING to hedge fence row on the west side of highway and station sight,
STANDARD TRIANGULATION STATION DISK SET IN TOP OF CONCRETE POST.

DESCRIPTION OF BENCH MARK

Designation GARLAND NO. 2
Nearest town CRYSTAL SPRING
Distance and direction from nearest town 0.5 mile south of
Character of mark REFERENCE MARK DISK
Established by CAGS
Detailed description About 0.5 mile south along OLD State RY. 126 from the POST OFFICE in
CRYSTAL SPRING to hedge fence row on the west side of the highway and RW, STANDARD
REFERENCE MARK DISK SET IN TOP OF CONCRETE POST.

DESCRIPTION OF BENCH MARK

Designation GARLAND NO. 1
Nearest town CRYSTAL SPRING
Distance and direction from nearest town 0.5 mile south of
Character of mark REFERENCE MARK DISK
Established by CAGS
Detailed description About 0.5 mile south along OLD State RY. 126 from the POST OFFICE in
CRYSTAL SPRING to hedge fence row on the west side of highway and RW, STANDARD
REFERENCE MARK DISK SET IN TOP OF CONCRETE POST.

DESCRIPTION OF BENCH MARK

Designation F 265 (FTH)
Nearest town BREEZWOOD
Distance and direction from nearest town 4.05 mile south of
Character of mark BENCH MARK DISK
Established by PENNSYLVANIA DEPARTMENT OF HIGHWAYS
Detailed description About 4.0 mile south along State RY. 126 from the junction of U.S. RY. 30
and State RY. 126 in BREEZWOOD to side road right (old RY. 126 at Crystal Springs)
thence turn right and go 0.05 mile south east, STANDARD P.D.M. DISK DRILLED IN
HORIZONTAL in the south end of bridge No. 9/26-46, 5 feet north west of sign BRUSH
CREEK, 14 feet east of the centerline of the road.

DESCRIPTION OF BENCH MARK

Designation E 265
Nearest town BREEZWOOD
Distance and direction from nearest town 3.4 mile south of
Character of mark BENCH MARK DISK
Established by CAGS
Detailed description About 3.4 mile south along State RY. 126 from the junction of U.S. RY. 30
and State RY. 126 in BREEZWOOD, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL in
south edge of apr shaped concrete culvert, 23 feet north east of the centerline of
the highway, 51 feet south of highway guard rail.

DESCRIPTION OF BENCH MARK

Designation D 265
Nearest town BREEZWOOD
Distance and direction from nearest town 2.65 mile south of
Character of mark BENCH MARK DISK
Established by CAGS
Detailed description About 2.65 mile south along State RY. 126 from the junction of U.S. RY. 30
and State RY. 126 in BREEZWOOD, STANDARD BENCH MARK DISK DRILLED IN HORIZONTAL in
the north end of concrete culvert (drain), 21 feet north east of the centerline of
RY. 126, approximately 10 feet south west of high rock cut bank.

DESCRIPTION OF BENCH MARK

Designation S PRULL
Nearest town BREEZWOOD
Distance and direction from nearest town 1.75 mile south of
Character of mark TRIANGULATION STATION DISK
Established by CAGS
Detailed description About 1.75 mile south along State RY. 126 from the junction of State
RY. 126 and U.S. 30 in BREEZWOOD to a road between OLD and NEW State 126 thence about
50 yards south west on OLD RY. 126 thence about 50 yards west to edge of field and
Lone Oak tree and station sight, STANDARD TRIANGULATION STATION DISK SET IN TOP OF
CONCRETE POST.

Recovered as Described - 1965

DESCRIPTION OF BENCH MARK

SPRUELL
 Designation **SPRUELL NO. 2** State PENNSYLVANIA County BEDFORD
 Nearest town BREESWOOD Chief of party J.C.CHILDS
 Distance and direction from nearest town 1.75 mile south of Leveling date OCT. 1960
 Character of mark REFERENCE MARK DISK Stamping **SPRUELL NO. 2 1960**
 Established by CGCS
 Detailed description About 1.75 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. 30 in BREESWOOD to a road between OLD and NEW State 126 thence about 50 yards south west on OLD Hy. 126 thence about 50 yards west to edge of field and lone Oak tree and RW, STANDARD REFERENCE MARK DISK SET IN TOP OF CONCRETE POST.

DESCRIPTION OF BENCH MARK

SPRUELL
 Designation **SPRUELL NO. 1** State PENNSYLVANIA County BEDFORD
 Nearest town BREESWOOD Chief of party J.C.CHILDS
 Distance and direction from nearest town 1.75 mile south of Leveling date OCT. 1960
 Character of mark REFERENCE MARK DISK Stamping **SPRUELL NO. 1 1960**
 Established by CGCS
 Detailed description About 1.75 mile south along State Hy. 126 from the junction of State Hy. 126 and U.S. 30 in BREESWOOD to a road between OLD and NEW State 126 thence about 50 yards south west on OLD Hy. 126 thence about 50 yards west to edge of field and lone Oak tree and RW, STANDARD REFERENCE MARK DISK SET IN TOP OF CONCRETE POST.

DESCRIPTION OF BENCH MARK

State PENNSYLVANIA County BEDFORD
 Designation **C 265** State PENNSYLVANIA County BEDFORD
 Nearest town BREESWOOD Chief of party J.C.CHILDS
 Distance and direction from nearest town 1.7 mile south of Leveling date OCT. 1960
 Character of mark BENCH MARK DISK Stamping **C 265 1960**
 Established by CGCS
 Detailed description About 1.7 mile south along State Hy. 126 from the junction of U.S. Hy.30 and State Hy. 126 in BREESWOOD, STANDARD BENCH MARK DISK BRIDLED IN HORIZONTAL. In concrete culvert, 32 feet north east of the centerline of Hy.126, 20 feet south of the centerline of driveway, 54 feet west of the north west corner of two-story frame house.
 MARCH 1963 Report: To be reset

DESCRIPTION OF BENCH MARK

State PENNSYLVANIA County BEDFORD
 Designation **B 265 (PH)** State PENNSYLVANIA County BEDFORD
 Nearest town BREESWOOD Chief of party J.C.CHILDS
 Distance and direction from nearest town 0.45 mile south of Leveling date OCT. 1960
 Character of mark BENCH MARK DISK Stamping **B 265 1960**
 Established by PENNSYLVANIA DEPARTMENT OF HIGHWAYS
 Detailed description About 0.45 mile south along State Hy. 126 from the junction of U.S. Hy.30 and State Hy. 126 in BREESWOOD, STANDARD P.D.H. MARK BRIDLED IN HORIZONTAL. In the south east wingwall of bridge over small creek, 21 feet east of the centerline of Hy. 126, approximately 54 feet north of over head turnpike bridge.

DESCRIPTION OF BENCH MARK

State PENNSYLVANIA County BEDFORD
 Designation **C 18 (USGS)** State PENNSYLVANIA County BEDFORD
 Nearest town BREESWOOD Chief of party J.C.CHILDS
 Distance and direction from nearest town AT BREESWOOD Leveling date OCTOBER 1960
 Character of mark DISK Stamping **C 18 1925**
 Established by U.S.C.G.S
 Detailed description In the Breewood Methodist Church, set vertical in the step to the entrance on the west side of the steps at the south side of the church building. About 1 foot above the ground.
 1965 USGS Report - DESTROYED by construction.

DESCRIPTION OF BENCH MARK

State PENNSYLVANIA County BEDFORD
 Designation **WT STATION** State PENNSYLVANIA County BEDFORD
 Nearest town BREESWOOD Chief of party J.C.CHILDS
 Distance and direction from nearest town AT BREESWOOD Leveling date OCTOBER 1960
 Character of mark TRIANGULATION STATION DISK Stamping **WT 1960**
 Established by COAST & GEODETIC SURVEY
 Detailed description At Breewood, about 50 yards east of the east end of the Breewood Methodist Church, to reach from the street to the end of the alley east along an alley which runs along the north side of the church to the end of the alley and a garage, also a power pole with a transformer, the station is about 2 feet south east of this transformer, this point is also in the center of a triangle which is made by cars entering the garage. Both RW's were covered at this time by the owner of the property, one by a stand and the other by vegetables and were not leveled to.

1965 Report - Destroyed by construction.

LINE 107

FORM 6931
 (7-64-59)

U.S. DEPARTMENT OF COMMERCE
 COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

State Pennsylvania County Bedford
 Designation **J 95 (PH)** State Pennsylvania County Bedford
 Nearest town Everett Chief of party J.C.B.
 Distance and direction from nearest town 6.5 miles east Recovery Date 4/66
 Character of mark A Pa. Highway Dept. disk Stamping **J 95 1935**
 Established by Pa. Highway Dept.
 Present condition Searched for but not recovered. The bridge has been re-placed by a new bridge.

6.5 miles east along U.S. Highway 30 from the Union Hotel at Everett, Bedford County, at a bridge over the Juniata River, in the top of the southwest corner of the concrete coping, and 27 feet south of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "J 95 1935."

R

OCTOBER 1967

VERTICAL CONTROL DATA

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

by the
Coast and Geodetic Survey
SEA LEVEL DATUM OF 1929

QUAD 390781

PAGE NO. 19

PA-MD-W VA
LATITUDE 39°30' to 40°00'
LONGITUDE 78°00' to 78°30'
DIAGRAM NJ 17-3 CUMBERLAND

LJHE 107

FORM 685A
(1-8-51)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Designation **K 95** State Pennsylvania County Bedford
Nearest town **Everett** County Bedford Chief of Party **J. O. B.**
Distance and direction from nearest town **8.4 miles east** Recovery Date **4/66**
Character of mark **a disk** Stamping **K 95 1935**
Established by **CGDS**
Present condition
Detailed report **Searched for but not recovered.— 1960**

8.4 miles east along U.S. Highway 30 from the union Hotel at Everett, Bedford County, about 90 feet north of the center line of the highway, 12 feet west of the center line of a north-and-south road, near a farm gate, and 2 feet east of the fence. A standard disk, stamped "K 95 1935" and set in the top of a concrete post.

FORM 685A
(1-8-51)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Designation **T. T. S. 56 J** (USGS) State Pennsylvania County Fulton
Nearest town **McConnellsburg** County Fulton Chief of Party **J. O. B.**
Distance and direction from nearest town **8.1 miles northwest** Recovery Date **4/66**
Character of mark **a disk** Stamping **TT 56 J 1926**
Established by **USGS**
Present condition **Good**
Detailed report **Recovered as described.**

8.1 miles northwest along U.S. Highway 30 from the Fulton National Bank at McConnellsburg, Fulton County, in the top of the southeast corner of a concrete bridge, and 12 feet south of the center line of the highway. A United States Geological Survey standard disk, stamped "TT 56 J 1926."

FORM 685A
(1-8-51)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Designation **782 (U.S.G.S.)** State Pennsylvania County Fulton
Nearest town **McConnellsburg** County Fulton Chief of Party **J. O. B.**
Distance and direction from nearest town **6.2 miles northwest** Recovery Date **4/66**
Character of mark **a disk** Stamping **782**
Established by **USGS**
Present condition **Good**
Detailed report **Recovered as described but a porch has been built which makes mark inaccessible.**

6.2 miles northwest along U.S. Highway 30 from the Fulton National Bank at McConnellsburg, Fulton County, 39 feet west of the Harrisonville post office, at the M.H. Hollinshead house, in the northwest corner of the foundation, about 66 feet south of the center line of the highway, and 30 feet east of the center of a road leading to Neesmore. A United States Geological Survey standard disk, stamped "782" and set vertically.

FORM 685A
(1-8-51)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Designation **R 95** State Pennsylvania County Fulton
Nearest town **McConnellsburg** County Fulton Chief of Party **J. O. B.**
Distance and direction from nearest town **8.2 miles northwest** Recovery Date **4/66**
Character of mark **a disk** Stamping
Established by **CGDS**
Present condition
Detailed report **Searched for but not recovered.**

8.2 miles northwest along U.S. Highway 30 from McConnellsburg, Fulton County, about 109 yards east of pole 28+1, about 109 yards east of an old concrete hotel, and 18 feet north of the center line of the highway. A standard disk, stamped "R 95 1935" and set in the top of a concrete post.

FORM 685A
(1-8-51)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Designation **782 (U.S.G.S.)** State Pennsylvania County Fulton
Nearest town **McConnellsburg** County Fulton Chief of Party **J. O. B.**
Distance and direction from nearest town **6.2 miles northwest** Recovery Date **4/66**
Character of mark **a disk** Stamping **782**
Established by **USGS**
Present condition **Good**
Detailed report **Recovered as described but a porch has been built which makes mark inaccessible.**

6.2 miles northwest along U.S. Highway 30 from the Fulton National Bank at McConnellsburg, Fulton County, 39 feet west of the Harrisonville post office, at the M.H. Hollinshead house, in the northwest corner of the foundation, about 66 feet south of the center line of the highway, and 30 feet east of the center of a road leading to Neesmore. A United States Geological Survey standard disk, stamped "782" and set vertically.

FORM 685A
(1-8-51)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Designation **S 95 (P.D.H.)** State Pennsylvania County Fulton
Nearest town **McConnellsburg** County Fulton Chief of Party **J. O. B.**
Distance and direction from nearest town **6.2 miles northwest** Recovery Date **4/66**
Character of mark **a Pa. Dept. of Highways disk** Stamping **S 95 1935**
Established by **Pa. Highway Dept.**
Present condition **Good**
Detailed report **Recovered as described.**

6.2 miles northwest along U.S. Highway 30 from the Fulton National Bank at McConnellsburg, Fulton County, about 126 feet east of the Harrisonville post office door, at a concrete bridge over Laking Creek, in the top of the southwest corner, and 12 feet south of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "S 95 1935."

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

R

LINE 108

Destination **T 95 (P.H.D.)** State **Pennsylvania** County **Pulton** Chief of Party **J.O.B.**
Nearest town **McConnellsburg** County **Pulton** Recovery Date **4/66**
Distance and direction from nearest town **5.0 miles northwest**
Character of mark **a Pa. Dept. of Highways disk** Stamping **T 95 1935**
Established by **Pa. Dept. of Highways**
Present condition **Good**
Detailed report **Recovered as described.**

5.0 miles northwest along U.S. Highway 30 from the Fulton National Bank at McConnellsburg, Fulton County, in the top of the southwest end of a bridge over Patterson Run, and 12 feet south of the center line of the highway. A Pennsylvania Department of Highways standard disk, stamped "P 95 1935."

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

R

Destination **U 95** State **Pennsylvania** County **Pulton** Chief of Party **J.O.B.**
Nearest town **McConnellsburg** County **Pulton** Recovery Date **4/66**
Distance and direction from nearest town **3.5 miles northwest** Stamping **U 95 1935**
Character of mark **a disk**
Established by **OKGS**
Present condition **Good**
Detailed report **Recovered as described except sign board is gone and mark is 4 feet south of utility pole 79.**

3.5 miles northwest along U.S. Highway 30 from the Fulton National Bank at McConnellsburg, Fulton County, 9 feet west of the Sorub Ridge Summit along road, about 117 feet southwest of Long View Lodge, and 33 feet north of the center line of the highway. A standard disk, stamped "U 95 1935" and set in the top of a concrete post.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

R

Destination **V 95** State **Pennsylvania** County **Pulton** Chief of Party **J.O.B.**
Nearest town **McConnellsburg** County **Pulton** Recovery Date **4/66**
Distance and direction from nearest town **1.8 miles northwest** Stamping
Character of mark **a disk**
Established by **OKGS**

Detailed report **Searched for but not recovered.**

1.8 miles northwest along U.S. Highway 30 from the Fulton National Bank at McConnellsburg, Fulton County, about 0.1 mile west of the Gonestoga Inn entrance, and 27 feet north of the center line of the highway. A standard disk, stamped "V 95 1935" and set in the top of a concrete post.

87 (B. & O.R.R.)--In Berkeley County, about 1-1/2 miles southeast along the Baltimore & Ohio Railroad from Cherry Run, Morgan County, and opposite milepost B 112. The top of a rail set vertically between the tracks.

88 (B. & O.R.R.)--In Berkeley County, about 0.6 mile southeast along the Baltimore & Ohio Railroad from Cherry Run, Morgan County, at bridge 54, and in the southwest end of the bridge east of the northeast abutment. The top of a copper bolt.

89 (B. & O.R.R.)--About 1/2 mile west along the Baltimore & Ohio Railroad from Sleepy Creek, Morgan County, opposite milepost B 110. The top of a rail set vertically between the tracks.

90 (B. & O.R.R.)--About 1-1/2 miles west along the Baltimore & Ohio Railroad from Sleepy Creek, Morgan County, opposite milepost B 119. The top of a rail set vertically between the tracks.

91 (B. & O.R.R.)--About 2-1/2 miles west along the Baltimore & Ohio Railroad from Sleepy Creek, Morgan County, opposite milepost B 120. The top of a rail set vertically between the tracks.

92 (B. & O.R.R.)--About 2 miles east along the Baltimore & Ohio Railroad from Hancock, Morgan County, opposite milepost B 121. The top of a rail set vertically between the tracks.

93 (B. & O.R.R.)--About 1 mile east along the Baltimore & Ohio Railroad from Hancock, Morgan County, opposite milepost B 122. The top of a rail set vertically between the tracks.

THE LINE ENTERS MARYLAND

APPENDIX B

USGS vertical and horizontal controls for Paw Paw, WV. 15 minute quadrangle

39-078-13
PAW PAW QUADRANGLE
70 MD -11 PA. -124 W.VA.
N3930-W7815/15
DIAGRAM NJ 17-3
CUMBERLAND

30TH ENGINEER TOPOGRAPHIC BATTALION

THIRD-ORDER LEVELING

ADJUSTED FIELD ELEVATIONS

DISTRIBUTED BY

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

70 MD.-11 PA.-124 W.VA.
PAW PAW QUADRANGLE

39-078-13
N3930-W7815/15

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>	<u>MARK (NGS)</u>	<u>PAGE NO.</u>
LL26 2 30TH ENGRS 1962 522	1	X 43 1941	1
LL26 3 30TH ENGRS 1962 531	1	Y 43 1941	1

LL26 1

COUNTRY	USA	TYPE OF MARK	Std. tablet	DESIGNATION OF MARK
PROVINCE OR STATE	West Virginia	ESTABLISHED BY (AGENCY)	30th Engr Bn (Topo.)	ELEVATION
MUNICIPALITY	Faw Paw	AGENCY (CAST IN MARK)	U. S. Geological Survey	ORDER
LINE		MARK IS STAMPED		DATE
		LL26 1 30TH ENGRS 1962 322		1929 S.L.D.
DESCRIPTION				
<p>Head Run, 1.6 mi W. of, along State Highway 2; 0.1 mi N. of Little Cacapon to SE.; thence 0.1 mi N. by trail to junction of Potomac and Little Cacapon Rivers; 113 ft SW. of junction of rivers; 75 ft SW. of bank at junction of rivers; 14 ft W. of 40-in. tree; 20 ft above water surface; in concrete post; standard tablet stamped "LL26 1 30TH ENGRS 1962 322"</p>				
DESCRIBED OR RECOVERED BY		AGENCY	DATE	



LL26 3

COUNTRY	USA	TYPE OF MARK	Std. tablet	DESIGNATION OF MARK
PROVINCE OR STATE	West Virginia	ESTABLISHED BY (AGENCY)	30th Engr Bn (Topo.)	ELEVATION
MUNICIPALITY	Faw Paw	AGENCY (CAST IN MARK)	U. S. Geological Survey	ORDER
LINE		MARK IS STAMPED		DATE
		LL26 3 30TH ENGRS 1962 331		1929 S.L.D.
DESCRIPTION				
<p>Faw Paw, 1.9 mi N. and W. of, along State Highway 9 (W.Va.)-31 (Cm.); thence 0.7 mi SE. along gravelled rd. across Western Maryland Railroad to abandoned Chesapeake and Ohio Canal, thence S. and W. on rd. along canal; head junction of Potomac and Little Cacapon Rivers; 38 ft S. of centerline of dirt rd.; 10 ft E. of trail to river; 30 ft N. of 30-in. blazed oak tree; in concrete post; standard tablet stamped "LL26 3 30TH ENGRS 1962 331"</p>				
DESCRIBED OR RECOVERED BY		AGENCY	DATE	



COUNTRY	USA	TYPE OF MARK	NCS Std. disk	DESIGNATION OF MARK
PROVINCE OR STATE	West Virginia	ESTABLISHED BY (AGENCY)	NCS	ELEVATION
MUNICIPALITY		AGENCY (CAST IN MARK)	NCS	ORDER
LINE		MARK IS STAMPED		DATE
		X 43 1941		
DESCRIPTION				
"X 43 1941" (NCS)				
DESCRIBED OR RECOVERED BY		AGENCY	DATE	

COUNTRY	USA	TYPE OF MARK	NCS Std. Disk	DESIGNATION OF MARK
PROVINCE OR STATE	West Virginia	ESTABLISHED BY (AGENCY)	NCS	ELEVATION
MUNICIPALITY		AGENCY (CAST IN MARK)	NCS	ORDER
LINE		MARK IS STAMPED		DATE
		Y 43 1941		
DESCRIPTION				
"Y 43 1941" (NCS)				
DESCRIBED OR RECOVERED BY		AGENCY	DATE	

QD. 70 MD-124 WVA 11 PA

Station: SIDELING County: Washington State: Maryland
 Observer: G. T. Hawkins Year: 1897 Datum: 1927 N.A.D. by graph
 Description: 1898
 20th Annual

Station is located about 10.0 mi W. of Hancock and 3.0 mi N. of Orleans, on high point on Sideling Ridge, about 1.0 mi from residence of George Morris, which is 3.0 mi S. of National Turnpike. The timber was cleared from the summit of the knob, except 1 tree, which was trimmed and left standing for signal.

Station mark: Signal tree.

Reference mark: Copper bolt cemented in solid rock, distant from tree, 16.3 ft, azimuth of which is 265°39'.

(NOTE: Vandals have removed copper bolt. Remains of drill hole found in large loose slab of sandstone. Bearing and distance to black oak signal tree check with original. A small mound of stones was built over bolt hole by party of Frank M. Lambert, 1939)

[Latitude 39 39 13.07

Longitude 78 19 32.33]

To Station—	Azimuth			Back Azimuth			Distance	
							Log. Meters	Miles
Fairview	269	23	31	89	37	08	4.484975
Sleepy	281	44	25	101	52	23	4.261462
Capon (2)	355	42	34	175	43	02	4.138253
Warrior	81	56	28	261	45	11	4.407862
Evitts	102	59	58	282	46	59	4.474890

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

39-078-13
PAW PAW QUADRANGLE
70 MD.-11 PA.-124 W.VA.
N3930-W7815/15
DIAGRAM NJ 17-3
CUMBERLAND

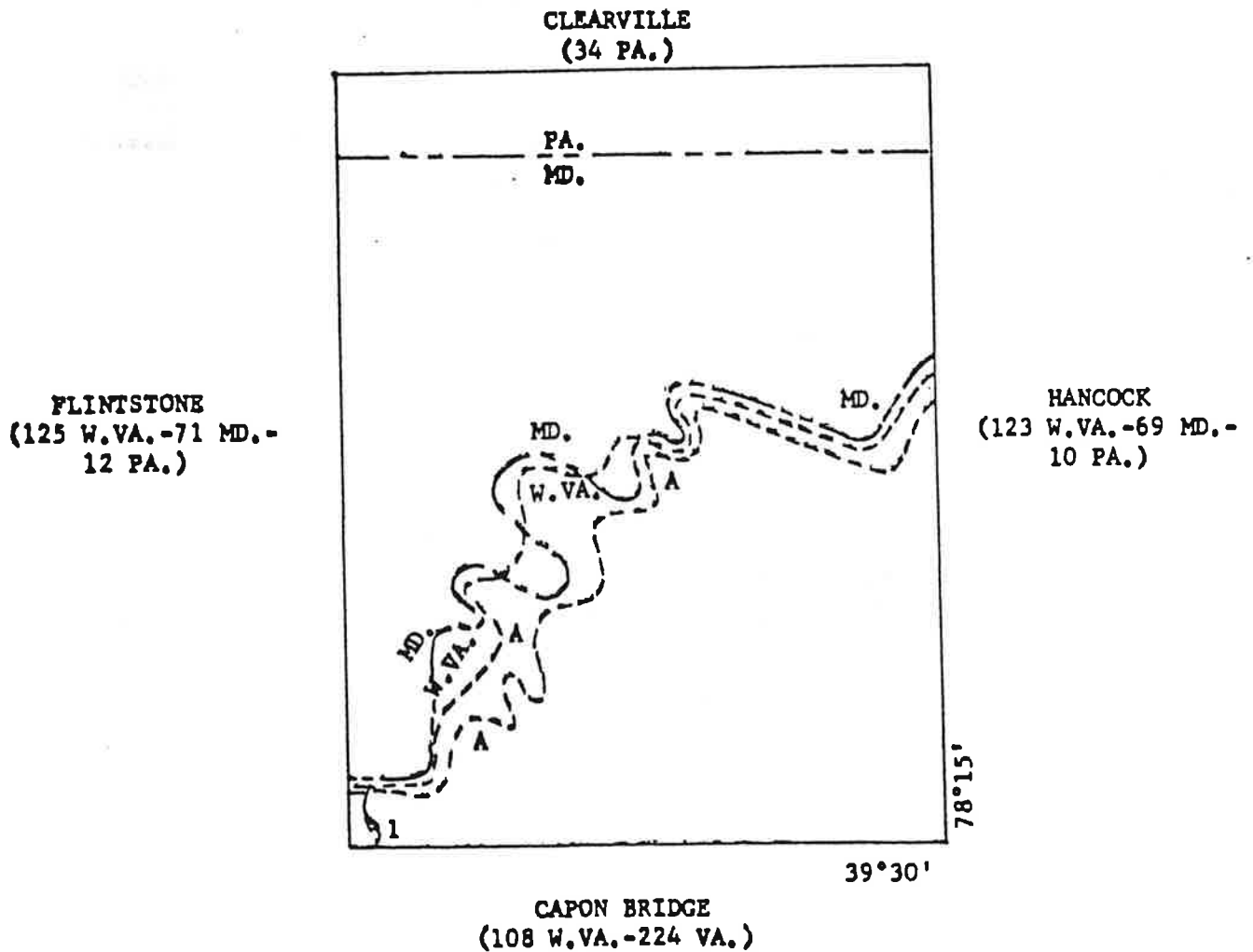
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allegheny and Washington Counties, Maryland;
Bedford and Fulton Counties, Pennsylvania;
Hampshire and Morgan Counties, West Virginia

Adjustment of 1973

Edition of 1973

PR: MCF



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 390783

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

PAW PAW QUADRANGLE
70 MD.-124 W.VA.-11 PA.
N3930-W7815/15
DIAGRAM NJ 17-3
CUMBERLAND

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

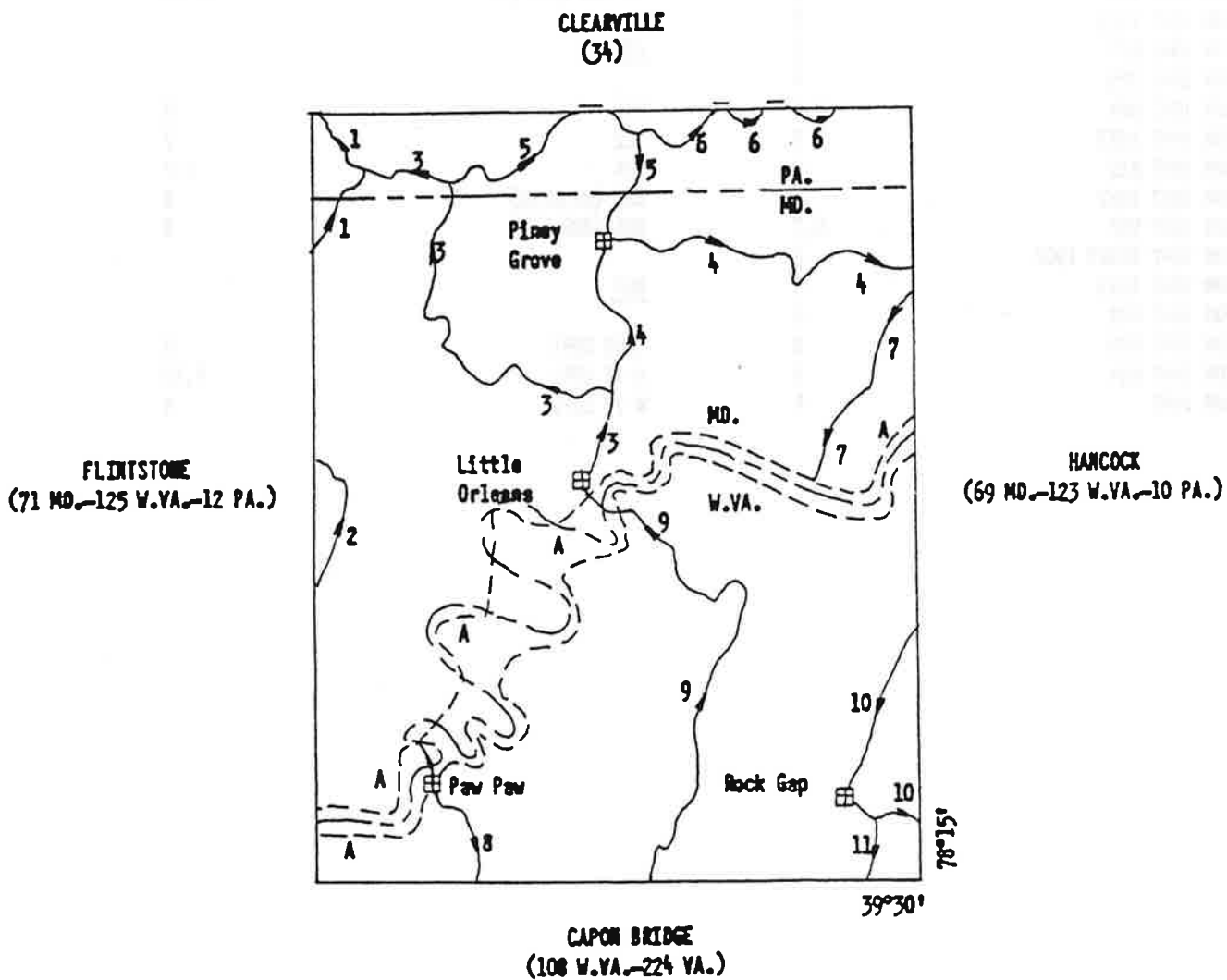
Allegheny and Washington Counties, Md.; Hampshire
and Morgan Counties, W.Va.; Bedford and Fulton
Counties, Pa.

Only the permanent marks
are listed for lines
run more than 25 years
before edition date

Final adjustment of 1949

Edition of 10/20/72

PR: LFB/jyk



NGS (USCGS) VERTICAL CONTROL DATA

A. Quadrangle 390781

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MARYLAND 543 C	3	35 JMM 1947 525	9
C 946	3	36 JMM 1947 601	9
761 C	3	37 JMM 1947 753	9
C 1204	3	38 JMM 1947 550	10
20 EOM 1947 1238	3	39 JMM 1947 1066	10
21 EOM 1947 1027	3,5	40 JMM 1947 508	10
22 EOM 1947 1262	3	48 JMM 1947 777	10
24 EOM 1947 865	5,7	49 JMM 1947 892	10
25 EOM 1947 792	5	50 JMM 1947 712	11,11
26 EOM 1947 1195	5		
27 EOM 1947 629	5	<u>POH</u>	
28 EOM 1947 529	4	718	8
29 EOM 1947 864	4,5	722	7
33 EOM 1947 1073	7	734	7,7
35 EOM 1947 816	7	886 (885.735)	8
36 EOM 1947 1067	6	886 (886.407)	8
37 EOM 1947 957	6,7		
38 EOM 1947 RESET 1962	6	<u>NGS</u>	
39 EOM 1947 1113	6	J 43 1941	8
40 EOM 1947 882	6	Q 43 1941	4,10
44 EOM 1947 609	8	W 77 1941	8
45 EOM 1947 694	8		
23 JMM 1947	4		

Books 7222 and 7225

	<u>Feet</u>
ISOLATED BUNCH MARKS (By C. B. Bailey and C. M. Smith, 1898-99; Book 7222, J. H. Jennings, 1898; Book 7225)	
Piney Grove, 4.7 mi SW. of, along turnpike; at summit of Green Ridge; on S. side of pike; on W. side of rd. to Little Orleans; in small ledge of rock; standard tablet stamped "C 1204"	1204.281
✓ Little Orleans; at Chesapeake and Ohio Canal aqueduct over Fifteenmile Creek; in N. end of E. coping; standard tablet stamped "C 459"	459.394
Harvey; 100 ft W. of forks of rd. SW. to Woodmont; on S. side of turnpike; in solid rock; standard tablet stamped "C 946" (Reported destroyed, 1947)	945.710
Rock Gap; 0.13 mi W. of Mr. Fearnow's house; 10 ft N. of rd.; on knoll; in rock; standard tablet stamped "761 C" (NOTE: Drill hole with only a portion of stem recovered in 1914)	760.855
✓ Chesapeake and Ohio Canal; at Lock No. 55; at Great Cacapon, W. Va.; on coping stone; standard tablet not stamped	443.975
Fisher Ford; in SE. corner of rd. forks; in large boulder; standard tablet stamped "MARYLAND 543 C"	543.495

LINE 1.

E. O. Miner, 1947; Book AV 16

Pratt, 0.6 mi N. of, thence 0.7 mi NE., along graveled rd.; midway between junction with rd. SE. and junction with rd. N.; 75 ft NW. of center of rd.; 10 ft NW. of 48-in. oak tree; in top of 3- by 3- by 1-ft boulder; standard tablet stamped "20 EQM 1947 1238"	1238.022
Reference mark; 27 ft SE. of tablet; on top of 6- by 36-in. boulder; chiseled square	1233.63
U.E., Pratt, 0.6 mi N. of, thence 1.7 mi NE., along graveled rd.; 50 ft NE. of SW. corner of woods; 40 ft NW. of center of rd.; on top of 2- by 2- by 3-ft boulder; chiseled square	1293.58
Prosperity Christian Church, 3.7 mi SE. of; 100 ft E. of bridge over Bear Camp Branch; 50 ft N. of wye-junction of graveled rds.; in top of 5- by 3- by 8-ft boulder; standard tablet stamped "21 EQM 1947 1027"	1026.717
Reference mark; 50 ft E. and across rd. from tablet; on top of 3- by 3- by 8-ft boulder; chiseled square	1035.87
U.E., Prosperity Christian Church, 2.6 mi SE. of; about 200 ft W. of Bear Camp Branch; 110 ft N. of culvert which is at wye-junction of graveled rds.; on top of 2- by 4- by 1-ft boulder which is 12 ft higher than rd.; chiseled square	1243.66
Prosperity Christian Church, 1.8 mi SE. of; about halfway up W. slope of Polish Mountain; 20 ft N. of center of, and 5 ft higher than rd.; in top of 4- by 4- by 1-ft boulder; standard tablet stamped "22 EQM 1947 1262"	1261.426

1947

LINE 1 (Cont'd.)Feet

Reference mark; 40 ft S. of tablet; on top of 1- by 2- by 2-ft boulder; chiseled square 1260.53

LINE 2.

J. W. McLaughlin, 1947; Book AV 18

Oldtown, 10.2 mi NE. of, along Green Ridge Road; 30 ft SE. of center of Y-junction of rd. N.; in edge of woods; in top of sandstone rock; standard tablet stamped "23 JWM 1947" 1381.389

Reference mark; 120 ft N. of tablet; 25 ft NE. of center of rd.; in base on W. side of 6-in. pine tree; rail spike 1379.97

LINE 3.

E. O. Miner, 1947; Book AV 16

"0 43 1941" (NGS) 493.756

U.E., Little Orleans, 1.4 mi N. of, along graveled rd.; 25 ft N. of iron pipe culvert; on E. bank of, and 5 ft higher than rd.; on top at end of rock ledge 1 ft thick; chiseled square 644.17

Little Orleans, 2.4 mi N. of; 300 ft NW. of crossing of main rds.; 90 ft NE. of crossing of second class rds.; in abandoned camp of Civilian Conservation Corps; in top at SE. corner of 5- by 12-ft concrete cooling tank; 4 ft above ground; standard tablet stamped "29 EOM 1947 864" 863.972

Reference mark; 75 ft NW. of tablet; on top of S. edge of higher one of two concrete platforms; chiseled square 874.81

U.E., Little Orleans, 2.4 mi N. of, thence 0.7 mi W.; 10 ft SW. of center of rd.; on top of masonry catch basin; chiseled square 937.25

Little Orleans, 3.8 mi NW. of; 0.13 mi SE. of stone quarry; 100 ft N. of Fifteenmile Creek; on W. bank of stream; 15 ft NE. of, and 3 ft lower than center of rd.; standard tablet stamped "28 EOM 1947 529" 529.113

Reference mark; 22 ft SW. of tablet; at W. corner of bridge; on top of concrete abutment; chiseled square 529.57

U.E., Little Orleans, 4.5 mi NW. of; 80 ft E. of junction with unimproved rd. SW.; 100 ft S. of large sawdust pile; on top of S. headwall of masonry catch basin; chiseled square 828.58

U.E., Little Orleans, 6.0 mi NW. of; 60 ft NE. of junction with unimproved rd. SE.; on top of N. headwall of masonry catch basin; chiseled square 964.58

1947

LINE 3 (Cont'd.)Feet

Little Orleans, 6.8 mi NW. of; 3.0 mi SE. of Shipway Restaurant, located on U. S. Highway 40 at top of Green Ridge; at confluence of Fifteemile Creek and Piney Ridge Run; in Billmyer Game Refuge; 60 ft E. of T-rd. junction; 18 ft N. of center of rd.; in side of rock ledge; standard tablet stamped "27 EOM 1947 629"	628.892
Reference mark; 18 ft S. of tablet; in center of rd.; on rock ledge; chiseled square	630.09
U.E., Shipway Restaurant on U. S. Highway 40; 1.0 mi SW. of; 150 ft S. of wye-junction of rds.; 25 ft W. of center of rd.; on top of 2- by 2- by 1-ft boulder; chiseled square	1197.25
Shipway Restaurant on U. S. Highway 40, at top of Green Ridge; 300 ft E. of hotel; 150 ft E. of Y-junction with macadam rd. NE.; in top of W. end of foundation of abandoned gasoline pump; standard tablet stamped "26 EOM 1947 1195"	1194.800
Reference mark; 100 ft N. of tablet; 27 ft N. of center of northern rd.; on top of 1- by 4-ft boulder; chiseled square	1195.39
U.E., Shipway Restaurant, 1.1 mi W. of, along U. S. Highway 40, thence 0.6 mi N. along graveled rd. which is parallel to Fifteemile Creek; 8 ft NW. of center of rd.; on top of W. wall of masonry catch basin; chiseled square	755.18
Shipway Restaurant, 1.1 mi W. of, along U. S. Highway 40, thence 1.5 mi N. along graveled rd. which is parallel to Fifteemile Creek; 25 ft SW. of iron pipe culvert; 20 ft W. of, and 8 ft higher than center of rd.; in top of 1p by 2- by 3-ft boulder; standard tablet stamped "25 EOM 1947 792"	792.206
Reference mark; 40 ft S. of tablet; 20 ft W. of, and 8 ft higher than center of rd.; in root on NE. side of 6-in. white oak tree; copper nail and washer	790.12
Artemas, 1.7 mi S. of; 0.1 mi N. of Maryland-Pennsylvania-State line; 20 ft S. of wye-junction with rd. E.; 8 ft higher than rd.; in 2- by 2- by 4-ft outcrop of red rock; standard tablet stamped "24 EOM 1947 865"	865.372
Reference mark; 30 ft NW. of tablet; on top of W. concrete headwall of culvert; chiseled square	859.46
U.E., Crossing of Maryland-Pennsylvania State line and Fifteemile Creek, 1.0 mi NW. of, along graveled rd.; 25 ft SE. of woods line; 10 ft NE. of center of rd.; on top of SE. end of masonry headwall of culvert; chiseled square	1019.51
"21 EOM 1947 1027" (Described in line 1)	1026.717

LINE 4.

E. O. Miner, 1947; Book AV 16

"29 EOM 1947 864" (Described in line 3)

863.972

1947

LINE 4 (Cont'd.)Feet

B.E., Little Orleans, 3.4 mi NE. of; about 0.1 mi SW. of farmhouse; 90 ft SW. of wye-junction with unimproved rd. W.; 40 ft NW. of center of improved rd.; on top of 6- by 12-in. boulder; chiseled square	1112.83
Little Orleans, 4.4 mi NE. of; 120 ft NW. of crossroad; 30 ft NE. of center of rd.; in top of stone post; standard tablet stamped "36 EOM 1947 1067"	1066.614
Reference mark; 35 ft NE. of tablet; in root on W. side of 12-in. hickory tree; copper nail and washer	1065.97
U.E., Little Orleans, 4.5 mi NE. of; 0.9 mi SW. of Piney Grove; at N. end of brick schoolhouse; on top of uppermost one of basement steps; chiseled square	1103.56
Piney Grove, on U. S. Highway 40; 125 ft W. of bridge; 32 ft W. of W. edge of house; 6 ft N. of and 5 ft higher than N. edge of pavement; in top of rock outcrop; standard tablet stamped "37 EOM 1947 957"	956.595
Reference mark; 210 ft E. of tablet; on top of E. end of foundation of abandoned gasoline pump; chiseled square	939.99
U.E., Piney Grove, 1.0 mi E. of, along U. S. Highway 40; 25 ft NE. of center of hwy.; at concrete bridge; on top of NE. end of E. wingwall; chiseled square	790.66
Piney Grove, 2.2 mi E. of, along U. S. Highway 40; 1.5 mi W. of Sideling Hill Creek; 41 ft N. of new relocation of U. S. Highway 40; in NE. wingwall of concrete culvert; standard tablet stamped "38 EOM 1947 RESET 1962" (Tablet was reset by Md. State Road Commission)	696.901
U.E., Piney Grove, 3.2 mi E. of, along U. S. Highway 40; 0.5 mi W. of Sideling Hill Creek; at Joy's Garage; 30 ft W. of wye-junction with graveled rd. S.; on top of S. headwall of culvert; chiseled square	633.37
U.E., Piney Grove, 3.7 mi E. of, along U. S. Highway 40; at Sideling Hill Creek; 11 ft S. of S. edge of bridge; on top of E. retaining wall; between two iron bolts; chiseled square	623.88
Piney Grove, 4.8 mi E. of, along U. S. Highway 40; at Forest Park Camp; 75 ft E. of wye-junction with graveled rd. N.; 25 ft S. of center of hwy.; in top of S. end of 3- by 6- by 12-ft boulder; standard tablet stamped "39 EOM 1947 1113"	1112.676
Reference mark; 50 ft NW. and across rd. from tablet; on top of 2- by 3- by 7-ft boulder; chiseled square	1112.81
U.E., Piney Grove, 5.9 mi E. of, along U. S. Highway 40; top of Sideling Hill; 80 ft SW. of center of hwy.; 1 ft NE. of concrete well cover; on top of 1- by 4-ft boulder; chiseled square	1992.72
U.E., Piney Grove, 6.8 mi E. of, along U. S. Highway 40; 30 ft NW. of center of hwy.; on top of concrete headwall of culvert; chiseled square	1273.81
Piney Grove, 7.7 mi E. of; 5.6 mi W. of Hancock, along U. S. Highway 40; 135 ft N. of wye-junction with State Highway 628; 27 ft N. of E. end of iron pipe culvert; in E. bank of, and 5 ft higher than State Highway 628; in top of 1- by 2- by 2-ft rock outcrop; standard tablet stamped "40 EOM 1947 882"	882.363

1947

LINE 4 (Cont'd.)Feet

Reference mark; 50 ft SW. of tablet; at end of culvert under U. S. Highway 40; on top of concrete slab; chiseled square 883.68

LINE 5.

E. O. Miner, 1947; Book AV 16

"24 EOM 1947 865" (Described in line 3) 865.372

U.E., Artemas, 1.7 mi S. of, thence 0.7 mi NE.; at top of hill; at curve in rd.; 10 ft W. of intersection of tangents of rd.; 3 ft E. of four-trunked oak tree; on top of 6- by 12-in. boulder; chiseled square 1126.88

Artemas, 1.7 mi S. of, thence 1.5 mi NE.; 3.1 mi SW. of Inglesmith; 20 ft W. of crossroad; in top of stone post; standard tablet stamped "33 EOM 1947 1073" 1072.767

U.E., Inglesmith, 2.0 mi SW. of; 105 ft E. of wye-junction with graveled rd. NW.; in N. cutbank of rd.; on top of rock ledge; 3 ft higher than ground; chiseled square 927.62

[Jogs into Clearville quadrangle]

Fairview Church and Cemetery, 1.5 mi E. of, along State Highway 26; at Bedford-Fulton County line; at concrete bridge over Crooked Run; in top of W. wingwall; Pennsylvania Department of Highways standard disk stamped "734" 733.567

Fairview Church and Cemetery, 2.3 mi SE. of, along hwy.; 0.6 mi N. of Maryland-Pennsylvania State line; at W. end of bridge; in concrete wingwall; standard tablet stamped "35 EOM 1947 816" 815.931

Reference mark; 60 ft NE. of tablet; on top of concrete headwall of bridge; chiseled square 813.91

U.E., Maryland-Pennsylvania State line at State Highway 26; 1.4 mi NE. of Piney Grove; on top of square stone post; highest point in chiseled diamond 1026.05

"37 EOM 1947 957" (Described in line 4) 956.595

LINE 6.

E. O. Miner, 1947; Book AV 16

"734" (PDH) (Described in line 5) 733.567

Fairview Church and Cemetery, 1.7 mi SW. of; at S. corner of concrete bridge over Sideling Hill Creek; in top of wingwall; PDH standard disk stamped "722" 722.292

1947

LINE 6 (Cont'd.)Feet

Fairview Church and Cemetery; 2.5 mi SE. of, along macadam rd.; 240 ft W. of wye-junction with graveled rd.; at NE. corner of concrete bridge; in top of wingwall; PDH standard disk stamped "718" 718.288

U.E., Fairview Church and Cemetery, 3.2 mi SE. of, along macadam rd.; 150 ft SW. of wye-junction with driveway S.; 15 ft SE. of center of macadam rd.; on top of concrete headwall of culvert; chiseled square 953.48

[Jogs into Clearville quadrangle]

Buck Valley Christian Church and Cemetery, 0.3 mi SW. of; at S. corner of bridge over Bear Creek; in top of S. wingwall; PDH standard disk stamped "886" 885.735

Buck Valley Christian Church and Cemetery, 0.2 mi SW. of; at SW. corner of concrete bridge over Stahle Run; in top of wingwall; PDH standard disk stamped "886" 886.407

LINE 7.

E. O. Miner, 1947; Book AV 16

U.E., Hancock, 3.7 mi W. of, along U. S. Highway 40, thence 0.9 mi SW. along State Highway 453; 115 ft SW. of junction with graveled rd. NW.; on top of NW. headwall of concrete culvert; chiseled square 562.22

Hancock, 3.7 mi W. of, along U. S. Highway 40, thence 1.8 mi SW. along State Highway 453; 20 ft S. of wye-junction with graveled rd. SW.; in top of 3- by 3-ft boulder; standard tablet stamped "44 EOM 1947 609" 608.902

Reference mark; 35 ft SW. of tablet; on top of S. wingwall of concrete bridge; chiseled square 609.11

Hancock, 3.7 mi W. of, along U. S. Highway 40, thence 1.8 mi SW. along State Highway 453, thence 1.2 mi SW. along graveled rd.; 210 ft NE. of fence corner; 100 ft SW. of culvert; 30 ft SE. of center of rd.; in top of 3- by 3- by 6-ft boulder; standard tablet stamped "45 EOM 1947 694" 694.075

Reference mark; 105 ft N. of tablet; 25 ft NW. of center of rd.; on top of 1- by 2- by 5-ft boulder; chiseled square 687.18

U.E., Pearre, 1.5 mi SE. of, thence 1.1 mi NE.; at log clubhouse of Toneloway Rod and Gun Club; 40 ft NW. of stream; at W. edge of driveway; on top of 6- by 12-in. boulder; chiseled square 487.66

"J 43 1941" (NGS) 457.893

LINE 8.

J. W. McLaughlin, 1947; Book AV 18

"W 77 1941" (NGS) 548.171

LINE 8 (Cont'd.)Feet

Paw Paw; at SE. end of overhead bridge over B. & O. RR.; in SE. headwall of bridge; standard tablet stamped "30 JWM 1947"	572.402
Reference mark; 90 ft NW. of tablet; on NW. end of overhead bridge over B. & O. RR.; on concrete headwall of bridge; chiseled square	571.98
U.E., Paw Paw, 1.0 mi SE. of, along hwy.; at Y-rd. NW. to cemetery; 30 ft N. of center of hwy.; on SW. headwall of concrete culvert; chiseled square	869.85
U.E., Paw Paw, 1.6 mi SE. of; at forks of Y-rd. N. to Magnolia; 25 ft SW. of center of hwy.; on rock outcrop; chiseled square	843.03
Paw Paw, 2.0 mi SE. of; 180 ft N. of yellow house standing on W. side of hwy.; 70 ft W. of center of hwy.; in rock ledge; standard tablet stamped "31 JWM 1947"	899.419
Reference mark; 430 ft S. of tablet; 20 ft W. of hwy.; on S. headwall of concrete culvert; chiseled square	887.71

LINE 9.

J. W. McLaughlin, 1947; Book AV 18

U.E., Largent, 2.2 mi NE. of; 20 ft E. of centerline and 3 ft lower than hwy.; on N. headwall of concrete culvert; chiseled square	588.74
Largent, 3.8 mi NE. of; 35 ft E. of Cacapon River; 25 ft W. of center of hwy.; in top of large boulder; standard tablet stamped "35 JWM 1947 525" (Reported not found, 1958)	525.233
Reference mark; 0.11 mi N. of tablet; 20 ft E. of hwy.; on N. headwall of concrete culvert; chiseled square	531.31
U.E., Largent, 5.1 mi NE. of; on S. wingwall of bridge over Cacapon River; chiseled square	531.10
Largent, 5.8 mi NE. of; 60 ft E. of Seven Oaks Cafe; 25 ft E. of centerline and 6 ft higher than hwy.; in top of large boulder; standard tablet stamped "36 JWM 1947 601"	600.685
Reference mark; 330 ft N. of tablet; 25 ft E. of center of hwy.; on S. headwall of concrete culvert; chiseled square	601.76
Largent, 7.8 mi NE. of; 80 ft SE. of center of junction of hwy. and I-rd. E.; 25 ft S. of graveled rd.; in top of rock; standard tablet stamped "37 JWM 1947 753"	752.813
Reference mark; 100 ft NW. of tablet; 15 ft W. of center of hwy.; on S. headwall of concrete culvert; chiseled square	750.23

1947

LINE 9 (Cont'd.)Feet

U.E., Largent, 9.0 mi NE. of; 20 ft E. of center of hwy.; on S. headwall of concrete culvert; chiseled square	616.98
Largent, 10.1 mi NE. of; 4.7 mi SE. of Orleans Crossroads; at junction of State Highway 9 and Orleans Road; 25 ft E. of center of hwy.; in top of N. headwall of large concrete culvert; standard tablet stamped "38 JWM 1947 550"	549.720
Reference mark; 140 ft N. of tablet; in center of large triangle formed by rd. junction; in base on E. side of 18-in. maple tree; rail spike	547.50
Orleans Crossroads, 2.6 mi SE. of; 0.4 mi W. of crossroads; at sharp curve N.; 35 ft N. of center of rd.; in top of boulder; standard tablet stamped "39 JWM 1947 1066"	1066.379
Reference mark; 60 ft W. of tablet; 35 ft E. of center of rd.; in root on E. side of 12-in. oak tree; copper nail and washer	1075.62
U.E., Orleans Crossroads, 1.6 mi SE. of; 25 ft E. of center of rd.; on top of large boulder; chiseled square	1401.56
Orleans Crossroads, in village of; 30 ft SW. of center of rd.; 20 ft NE. of B. & O. RR. track; in SE. concrete foundation of block signal; standard tablet stamped "40 JWM 1947 508"	507.712
Reference mark; 60 ft SW. of tablet; on NW. concrete foundation of block signal; chiseled square	507.80
"Q 43 1941" (NGS) (Also inline 3)	493.756

LINE 10.

J. W. McLaughlin, 1947; Book AV 18

Berkley Springs, 3.8 mi SW. of; 35 ft SE. of center of junction of hwy. and T-rd. E.; 2 ft N. of shed at school bus stop; in top of rock; standard tablet stamped "48 JWM 1947 777" (Reported destroyed, 1958)	777.118
Reference mark; 480 ft S. of tablet; on NE. headwall of concrete culvert; chiseled square	782.90
U.E., Berkley Springs, 5.1 mi SW. of; about 120 ft S. of stone tavern; on SW. headwall of concrete culvert; chiseled square	857.72
Berkley Springs, 6.2 mi SW. of; 30 ft SW. of center of junction of hwy. and private driveway E.; 1 ft E. of fence; in top of rock; standard tablet stamped "49 JWM 1947 892"	891.877
Reference mark; 0.18 mi S. of tablet; 60 ft SE. of center of junction of hwy. and T-rd. E.; in root on W. side of 14-in. oak tree; copper nail and washer	870.31

11

PAW PAW

FD-V.YL-PA.

J. W. McLaughlin

Book # 18

1947

LINE 10 (Cont'd.)

Foot

E.L., Bertley Springs, 7.5 mi along hwy. W. of; 4.8 mi along rd. W. of Stottlers Crossroads;
35 ft W. of center of junction of hwy. and rd. E.; on top of rock; chiseled square 753.86

Stottlers Crossroads, 3.7 mi W. of, along graded rd.; 30 ft W. of center of junction of rd. E.;
8 ft W. of 12-in. locust tree; in top of rock; standard tablet stamped "50 JAN 1947 712"
(Reported not found, 1958) 711.442

Reference mark; 200 ft E. of tablet; 10 ft W. of center of rd.; in base on E. side of 6-in.
pine tree; rail spike 721.84

LINE 11.

E. A. Peckman, 1970; Book # 1578

"50 JAN 1947 712" (Described in Line 10) 711.442

70 MD. - 11 PA. - 124 W. VA.
PAW PAW QUADRANGLE

N3930-W7815/15
MD.-PA.-W.VA.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
TRANSIT TRAVERSE

Bks. C7750-56
By Oscar Jones, 1926

1927 N.A.D.

	<u>Latitude</u>	<u>Longitude</u>
ALONG HIGHWAY NEAR NORTH BORDER OF QUADRANGLE.		
S. end of bridge over Sideling Hill Creek	39 44 34.51	78 21 34.27
Rd. fork N.	39 44 17.55	78 21 11.87
Rd. fork E.	39 44 03.85	78 20 56.57
ALONG HIGHWAY NEAR NORTH BORDER OF QUADRANGLE (CHECKED SPUR LINE)		
Piney Creek, in SW. corner of S. abutment of concrete bridge; along Highway 329; Pennsylvania State Highway Department tablet		
	39 44 28.25	78 21 48.64
Rd. fork SE.	39 44 06.95	78 21 51.89
Pennsylvania-Maryland State line stone monument, on E. side of hwy.	39 43 20.93	78 22 01.81
Bks. AH 45 f (fld.) AH 46 a (cmp.) By C. W. Haas, 1947		
1927 N.A.D.		
14 1126+. Photo point 3-136 C; center- line of rd. at trail NE. (PP changed from original bend in rd. to trail NE.)	39 30 12.87	78 15 19.54 ✓
Bks. AH 45 h (fld.) AH 46 a (cmp.) 1927 N.A.D.		
1296+. Centerline of rd. at field rd. SW.	39 31 08.08	78 15 11.97
1303+. Centerline of rd. at fenceline SW.	39 31 14.59	78 15 37.97

70 MD. - 11 PA. - 124 W. VA.

MD. - PA. - W. VA.

PAW PAW QUADRANGLE

Bks. AH 45 h (fld.)

AH 46 a (cmp.)

(Cont'd. P. 2)

1927 N.A.D.

By C. W. Haas, 1947

1310A. Stotlers Crossroads, 3.7 mi E. of, along graded rd.; 30 ft W. of centerline of T-rd. SE.; 8 ft SW. of 12-in. locust tree; in top of rock; standard tablet stamped "TT 50 JWM 1947" (Reported not found, 1958)	39 31 19.92	78 15 58.92
1310+. P.P. 3-136 B; centerline of rd. at small stream crossing	39 31 22.84	78 15 59.00
1319+. Centerline of rd. at fence- line W.	39 31 42.73	78 15 59.57
1326+. Centerline of rd. at woods rd. E.	39 32 05.65	78 15 54.60
1337+. Centerline of rd. at fence- line N.	39 32 25.88	78 15 55.91
1342a. P.P. 3-136 A; junction of E.-W. rd. and Highway 522	39 32 32.54	78 16 21.11
1344. Berkeley Springs, 6.2 mi SE. of, along Highway 522; 30 ft SW. of centerline of hwy. and private drive E.; 1 ft E. of fence; in top of rock; standard tablet stamped "49 JWM 1947 892"	39 32 41.08	78 16 17.36
1347+. Centerline of hwy. at rd. W.	39 32 58.44	78 16 10.15
1350+. P.P. 3-186 A; centerline of hwy. at rd. SE.	39 33 31.10	78 15 58.25
1352+. Centerline of hwy. at rd. SE.	39 33 51.84	78 15 46.21
1354+. P.P. 3-209 A; centerline of hwy. at private rd. SE.	39 34 23.61	78 15 27.36
1357. Berkeley Springs, 3.8 mi SE. of, along Highway 522; 35 ft SE. of centerline of hwy.; 2 ft N. of school bus stop shed; in top of rock; standard tablet stamped "48 JWM 1947 777" (Reported destroyed, 1958)	39 34 37.77	78 15 18.60
1357+. Centerline of hwy. at rd. NW.	39 34 40.72	78 15 17.21
1359+. Centerline of rd. at rd. NW.	39 35 04.86	78 15 02.90

70 MD. - 11 PA. - 124 W. VA.

MD. - PA. - W. VA.

PAW PAW QUADRANGLE

Bks. AH 45 h (fld.)
AH 46 a (cmp.)

By C. W. Haas, 1947

(Cont'd. P. 3)

1927 N.A.D.

1452a. Junction of NE.-SW. rd. and
rd. SE.

39 39 57.46

78 15 04.07

1455+. P.P. 4-124 C; centerline
of rd. at rd. E.

39 40 13.31

78 15 02.95

Bks. AH 45 i (fld.)
AH 46 a (cmp.)

By C. W. Haas, 1947

1927 N.A.D.

1546+. Centerline of rd. at
fenceline S.

39 43 51.57

78 15 24.11

1552a. P.P. 5-69 B; junction of
E.-W. rd. and rd. SW.

39 43 58.71

78 15 44.93

1552. Hancock, Md., 7.7 mi NW. of post office; 3.5 mi W. along
Highway 40, thence 1.8 mi N. to rd. fork, thence 2.4 mi NW.
along southerly fork; 19 ft N. and 17 ft W. of, and 2 ft higher
than junction of rds.; 57 ft NW. of group of mailboxes; in
concrete post; standard tablet stamped "TT 36 CWH 1947"

39 43 58.90

78 15 45.15

1589a. P.P. 5-69 A; rd. fork

39 44 37.25

78 16 13.17

Bks. AH 45 j (fld.)
AH 46 a (cmp.)

By C. W. Haas, 1947

1927 N.A.D.

1738+. Centerline of rd. on straight
line between hemlock tree on E. side
of rd. and southerly one of two pines
on W. side of rd.

39 30 12.10

78 21 42.66

1747+. P.P. 3-139 A; centerline of
rd. over culvert

39 30 31.48

78 21 40.73

1755. Largent, 3.8 mi NE. of, along Highway 9; 35 ft E. of
Cacapon River; 25 ft W. of centerline of hwy.; in top of
large boulder; standard tablet stamped "35 JWM 1947 525"
(Reported not found, 1958)

39 30 46.53

78 21 18.52

1758+. Centerline of rd. at fence-
line W.

39 31 04.86

78 21 12.35

1765+. P.P. 3-183 B; centerline of
bridge over middle of Cacapon
River

39 31 41.06

78 20 47.72

70 MD. - 11 PA. - 124 W. VA.

MD. - PA. - W. VA.

PAW PAW QUADRANGLE

Bks. AH 45 j (fld.)

AH 46 a (cmp.)

By C. W. Haas, 1947

(Cont'd. P. 4)

1927 N.A.D.

1769a. Centerline of rd. at rd. SSW.	39 32 03.36	78 20 47.42
1771A. Largent, 5.8 mi NE. of, along Highway 9; 60 ft E. of Seven Oaks Cafe; 25 ft E. of centerline of hwy.; 6 ft higher than hwy.; in top of large boulder; standard tablet stamped "36 JWM 1947 601"	39 32 18.96	78 20 43.86
1771+. Centerline of rd. at fence- line W.	39 32 20.06	78 20 43.99
1775a. Centerline of rd. over culvert and opposite pine tree on W. side of rd.	39 32 52.09	78 20 45.07
1776+. P.P. 3-183 A; centerline of rd. at rd. NW.	39 33 11.20	78 20 44.68
1782+. Centerline of rd. at rd. W.	39 33 41.73	78 20 23.67
1784A. Largent, 7.8 mi NE. of, along Highway 9; 80 ft SE. of centerline of hwy. and T-rd. E.; 25 ft S. of graveled rd.; in top of rock; standard tablet stamped "37 JWM 1947 753"	39 33 52.69	78 20 15.57
1785+. Centerline of rd. at rd. SE.	39 34 05.21	78 20 10.97
1788+. Centerline of rd. at rd. E.	39 34 25.62	78 19 52.18
1789+. P.P. 4-06 B; centerline of rd. at rd. W.	39 34 39.01	78 19 43.01
1792+. Centerline of rd. at woods rd. SW.	39 35 04.98	78 19 32.17
1794a. Centerline of rd. at fence- line W.	39 35 24.37	78 19 15.98
1796A. Largent, 10.1 mi NE. of, along Highway 9; at junction of Orleans Road and hwy.; 25 ft E. of centerline of hwy.; in top of N. concrete headwall of large culvert; standard tablet stamped "38 JWM 1947 550"	39 35 39.76	78 19 05.54
1797a. P.P. 4-06 A; junction of NE.-SW. rd. at tangent of curve of rd. NW.	39 35 41.92	78 19 04.05

70 MD. - 11 PA. - 124 W. VA.

MD. - PA. - W. VA.

PAW PAW QUADRANGLE

Bks. AH 45 j (fld.)
AH 46 a (cmp.)

By C. W. Haas, 1947

(Cont'd. P. 5)

1927 N.A.D.

1804a. Centerline of rd. at easterly one of two rds. N.	39 35 52.64	78 19 31.82
1810+. Centerline of rd. at fence-line SE.	39 35 39.16	78 19 52.02
1816+. Centerline of rd. over culvert and small creek	39 35 38.21	78 20 13.27
1823a. P.P. 4-50 C, centerline of rd. at rd. NE.	39 35 42.01	78 20 39.11
1826+. Centerline of rd. at trail SW.	39 35 45.64	78 20 59.52
1829. Junction of Orleans Road and Highway 9, 2.1 mi NW. of, along Orleans Road; 0.4 mi W. of crossroads; at sharp curve to N.; 35 ft N. of centerline of rd.; in top of boulder; standard tablet stamped "39 JWM 1947 1066"	39 35 46.15	78 21 01.07
1840+. Centerline of rd. at powerline crossing	39 36 19.79	78 21 01.01
1847+. P.P. 4-50 B; centerline of rd. at long tangent at woods rd. N.	39 36 37.24	78 21 08.99
1864+. Centerline of rd. at fenceline S.	39 36 55.78	78 21 41.03
1883A. P.P. 4-50 A; centerline of rd. at fenceline NE.	39 37 06.39	78 22 30.91
1886A. Orleans Crossroads, 30 ft SW. of centerline of rd.; 20 ft NE. of Baltimore & Ohio Railroad; set in SE. concrete foundation of block signal; standard tablet stamped "40 JWM 1947 508"	39 37 12.24	78 22 40.09
1892+. Intersection of rd. and RR. track	39 37 29.12	78 22 45.94
1896.=1265. Line ties to A. B. Martini's line, Book 8, AH 47 r, p. 25	39 37 30.40	78 22 59.05

70 - MD. - 11 PA. - 124 W. VA.

MD. - PA. - W. VA.

PAW PAW QUADRANGLE

Bks. AH 47 m (fld.)

AH 48 a (cmp.)

By J. D. Nikolaus, 1947 (Cont'd. P. 6)

1927 N.A.D.

400. USC&GS triangulation station
RAGGED 39 43 21.409 78 29 37.878

407.=499. Yonkers, mi NE. of, (by way of State Highway 40
 mi E. of Y-rd. N., thence N. mi to station on Mason
and Dixon Line); 20 ft S. of centerline of rd.; 15 ft SE. of
iron pipe marker painted orange and white located on N. side
of pipeline right-of-way; standard tablet stamped
"TT 7 JDN 1947"

39 43 22.06 78 29 15.84

412+. Intersection of centerlines
of rd. forks 39 43 31.53 78 29 01.78

420+. Y-rd. NE. 39 43 48.93 78 28 53.25

424+. Center of small wooden bridge
over small stream 39 43 58.52 78 29 13.12

430+. Woods rd. SW. 39 44 17.74 78 29 27.77

435a. Center of grass triangle at
rd. forks 39 44 29.16 78 29 28.10

442a. Intersection of three-way
rd. forks 39 44 32.95 78 29 44.44

454. Prosperity Christian Church, 1.8 mi SE. of; about halfway
up W. slope of Polish Mountain; 20 ft N. of centerline of rd.;
5 ft higher than rd.; in 4- by 4- by 1-ft boulder; standard
tablet stamped "22 EOM 1947 1262"

39 44 59.64 78 29 50.52

Bks. AH 47 n (fld.)

AH 48 a (cmp.)

By J. D. Nikolaus, 1947

1927 N.A.D.

499.=407. "TT 7 JDN 1947"
(previously described) 39 43 22.06 78 29 15.84

510+. Woods rd. S. 39 42 57.50 78 29 36.64

523A. Yonkers, 1.3 mi E. of, along U. S. Highway 40, thence 1.5 mi
NE. along graveled rd.; midway between junction of T-rd. SE.
and Y-rd. N.; 75 ft NW. of centerline of rd.; 10 ft NW. of
48-in. oak tree; in 3- by 3- by 1-ft boulder; standard tablet
stamped "20 EOM 1947"

39 42 24.47 78 29 56.30

523+. T-rd. SE.

39 42 22.24 78 29 57.18

70 MD. - 11 PA. - 124 W. VA.

MD. - PA. - W. VA.

PAW PAW QUADRANGLE

Bks. AH 47 p (fld.)

AH 48 a (cmp.)

By J. D. Nikolaus, 1947

(Cont'd. P. 7)

1927 N.A.D.

947. Pawpaw, 2.3 mi NW. of, along Highway 51 to junction of T-rd. N. and station; 16 ft S. of junction of T-rd. N. with hwy.; 8 ft S. of edge of rd.; 3 ft N. of wire fence; in concrete post; standard tablet stamped "TT 12 JDN 1947"

39 32 30.44 78 29 35.42

947a. Centerline of Highway 51 and Y-rd. N.

39 32 30.59 78 29 35.39

956+. Dim woods rd. NE.

39 32 58.21 78 29 32.40

964a. Dim woods rd. NE.

39 33 28.98 78 29 36.84

968+. Dim woods rd. S.

39 33 38.04 78 29 34.04

972. Pawpaw, 4.3 mi NW. of, (by way of Highway 51, 2.3 mi NW. to T-rd. N., thence 2.0 mi N. to station); 310 ft S. of Y-rd.; 18 ft E. of centerline of rd.; 12 ft SE. of stone culvert; in concrete post; standard tablet stamped "TT 13 JDN 1947"

39 33 57.88 78 29 18.48

973a. Y-rd.

39 34 01.20 78 29 19.72

980+. T-rd. SE.

39 34 18.86 78 29 04.43

992a. P.P. 4-11-B; center of stone culvert

39 34 54.43 78 28 45.20

1000a. Dim T-rd. E.

39 35 17.49 78 28 29.49

1004. Pawpaw, 6.6 mi NW. of (by way of Highway 51, 2.3 mi NW. to T-rd. N., thence 4.3 mi N. to station on right); 15 ft S. of centerline of rd. and T-rd. N.; in clearing on S. side of rd.; 6 ft S. of edge of bank; in concrete post; standard tablet stamped "TT 14 JDN 1947"

39 35 33.67 78 28 19.64

1004a. T-rd. NW.

39 35 33.79 78 28 19.76

1016. Comp. point

39 36 01.20 78 27 51.28

1016a. P.P. 4-11-A; crossroads

39 36 01.16 78 27 51.17

1020+. Powerline E.-W.

39 36 10.08 78 27 46.64

1021. Comp. point

39 36 14.19 78 27 43.72

70 MD. - 11 PA. - 124 W. VA.

MD. - PA. - W. VA.

PAW PAW QUADRANGLE

Bks. AH 47 p (fld.)

AH 48 a (cmp.)

By J. D. Nikolaus, 1947

(Cont'd. P. 8)

1927 N.A.D.

1026. Comp. point	39 36 28.72	78 27 35.36
1026A. Airway Beacon #9	39 36 09.568	78 28 24.239
1031+. T-rd. E.	39 36 46.28	78 27 25.50
1038. Pawpaw, 9.2 mi NW. of, along Highway 51 W. from Pawpaw 2.3 mi to T-rd. N., thence 6.9 mi N. to station; across rd. from abandoned apple orchard; 20 ft S. of centerline of rd.; 60 ft E. of orange and white marker post; in concrete post; standard tablet stamped "TT 15 JDN 1947"	39 37 03.27	78 27 15.11
1051+. Dim trail NW.	39 37 30.80	78 26 55.61
1061a. P.P. 4-47-A; Y-rd. SE.	39 37 52.92	78 26 37.58
1068+. Dim woods rd. N.	39 37 53.76	78 26 11.66
1081. Pawpaw, 11.4 mi NW. of; 2.5 mi SE. of Little Orleans; (by way of Highway 51 W. 2.3 mi to T-rd. N., thence 7.6 mi N. to Y-rd. E., thence 1.5 mi E. to station); 27 ft E. of centerline of rd.; 9 ft W. of group of trees; in concrete post; standard tablet stamped "TT 16 JDN 1947"	39 37 56.89	78 25 26.69
1094+. Dim woods rd. N.	39 37 59.64	78 24 34.63
1103+. Y-rd. NW.	39 38 01.36	78 24 00.81
1115a. Center of rd. at E. of concrete low water bridge	39 37 40.62	78 23 23.51
1119a.=1252a. Junction point	39 37 36.35	78 23 16.40

Bks. AH 47 r (fld.)

AH 48 a (cmp.)

By A. B. Martini, 1947

1927 N.A.D.

USC&GS triangulation station
MARPEN 1941

Marpen Ecc. Signal (no description)

Marpen A. Baseline (no description)

39 43 20.972 78 22 53.423

39 43 21.02 78 22 52.46

39 43 21.35 78 22 01.70

70 MD. - 11 PA. - 124 W. VA.

MD. - PA. - W. VA.

PAW PAW QUADRANGLE

Bks. AH 47 r (fld.)
AH 48 a (cmp.)

By A. B. Martini, 1947

(Cont'd. P. 9)

1927 N.A.D.

Marpen X. Mason and Dixon Line

Monument about 1.5 mi NNE. of Piney
Grove; 13 ft E. of centerline of rd.;
12-in. square stone post projecting
2 ft

39 43 20.93 78 22 01.81

Marpen E+. Centerline of hwy. and
T-rd. NW.

39 43 00.46 78 22 25.51

Marpen K.-1160. End of baseline
(no description)

39 42 40.33 78 22 38.31

1160.=Marpen K. End of baseline
(previously described)

39 42 40.33 78 22 38.31

1167A. Piney Grove, along U. S. Highway 40; 125 ft W. of
bridge; 32 ft W. of W. edge of house; 6 ft N. of and 5 ft
higher than N. edge of pavement; in top of rock outcrop;
standard tablet stamped "37 EOM 1947"

39 42 21.30 78 22 39.66

1167a. P.P. 5-17; center of Highway
40 and rd. WSW.

39 42 20.75 78 22 37.97

1177+. P.P. 4-119-A; T-rd. E.

39 41 36.40 78 22 56.79

1186. Little Orleans, 4.4 mi NE. of; 120 ft NW. of crossroads;
30 ft NE. of centerline of rd.; in top of stone post;
standard tablet stamped "36 EOM 1947"

39 41 00.59 78 22 25.10

1186+. P.P. 4-119-B; T-rd. E.

39 40 59.42 78 22 24.47

1188+. Center of rd. and short
tangent of T-rd. ESE.

39 40 51.52 78 22 17.30

1193+. Y-rd. NE.

39 40 29.30 78 22 16.09

1197+. P.P. 4-119-C; Y-rd. WSW.

39 40 10.74 78 22 22.81

1216+. Centerline of rd. and C.C.C.
rd. S.

39 39 24.85 78 22 38.31

1217A. Little Orleans, 2.4 mi N. of; 300 ft NW. of crossing of
main rds.; 90 ft NE. of crossing of second-class rd.; in
abandoned camp of Civilian Conservation Corps; in top at SE.
corner of 5- by 12-ft concrete cooling tank; 4 ft above ground;
standard tablet stamped "29 EOM 1947"

39 39 23.87 78 22 39.33

70 MD. - 11 PA. - 124 W. VA. .

MD. - PA. - W. VA.

PAW PAW QUADRANGLE

Bks. AH 47 r (fld.)

AH 48 a (cmp.)

By A. B. Martini, 1947 (Cont'd. P. 10)

1927 N.A.D.

1219+. P.P. 4-81-A; rd. intersection	39 39 20.86	78 22 36.62
1236+. P.P. 4-81-B; center of culvert	39 38 12.94	78 22 56.56
1241+. Center of galvanized culvert	39 38 00.73	78 33 01.84
1252a. Rd. intersection	39 37 36.35	78 23 16.40
1265.=1896. Line ties to C. W. Haas' line, Bk. 10, p. 30, 1947	39 37 30.40	78 22 59.05

APPENDIX C

USGS vertical and horizontal controls for Hancock, Md. 15 minute quadrangle

THIRD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

39-078-12
HANCOCK QUADRANGLE
123 W.VA.-69 MD.-10 PA.
N3930-W7800/15
DIAGRAM NJ 17-3
CUMBERLAND

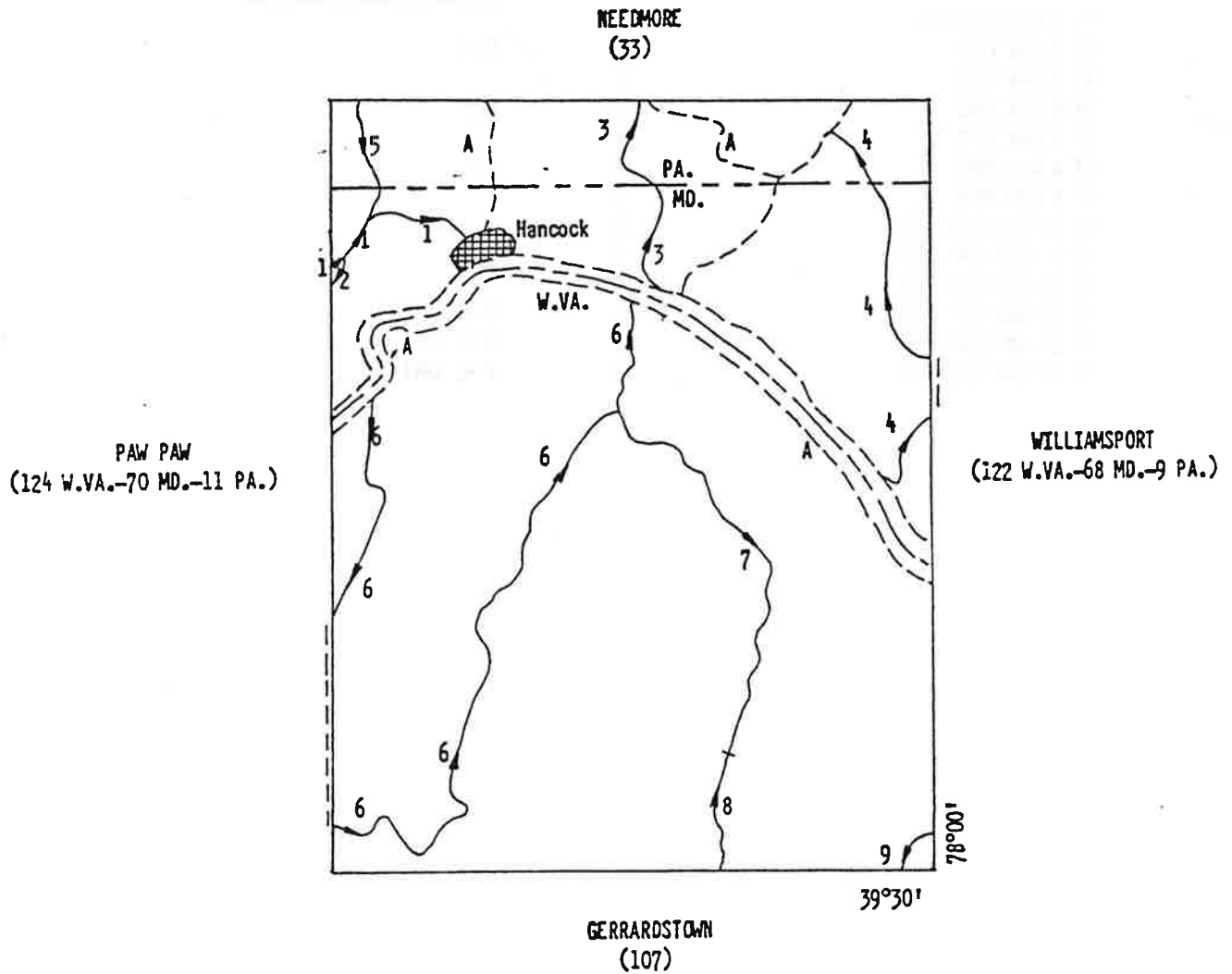
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Berkeley and Morgan Counties, W.Va.; Washington
County, Md.; Franklin and Fulton Counties, Pa.

Final adjustment of 1972

Edition of 10/23/79

PR: GWK/jyk



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 390781

HANCOCK QUADRANGLE

39-078-12

N3930-W7800/15
123 W.VA.-69 MD.-10 PA.

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>	<u>MARK (USGS)</u>	<u>PAGE NO.</u>
C 467	5	TT 26 CWH 1947 595	5
MARYLAND C 402	3	TT 27 CWH 1947 548	5
MARYLAND C 448	3	45 JHM 1947 442	6
466 C	3	46 JHM 1947 612	6
612 C	3	47 JHM 1947 685	7
662 C	3	51 JHM 1947 RESET 1979	7
C 9 1925	3	52 JHM 1947 877	7
TT 4 D 1934	6	53 JHM 1947 956	7
41 EOM 1947 529	3	54 JHM 1947 896	7
42 EOM 1947 461	3,6	55 JHM 1947 589	7
43 EOM 1947 443	4	56 JHM 1947 579	7
49 EOM 1947 760	6	57 JHM 1947 688	7
TT 1 CWH 1947 816	4		
TT 2 CWH 1947 709	4	<u>MARYLAND GEODETIC SURVEY</u>	
TT 3 CWH 1947 778	4	✓ WA 1	4
TT 4 CWH 1947	8		
TT 5 CWH 1947	7	<u>PDH</u>	
TT 6 CWH 1947	8		
TT 7 CWH 1947	8	498	6
TT 8 CWH 1947	8		
TT 9 CWH 1947	8	<u>NGS</u>	
TT 10 CWH 1947 514	9		
TT 11 CWH 1947 746	9	Q 42 1941	4
TT 12 CWH 1947 629	8	W 42 1941	4,8
TT 23 CWH 1947 435	5	E 43 1941	6
TT 24 CWH 1947 545	5		
TT 25 CWH 1947 554	5		

HANCOCK

W.VA.-MD.-PA.

Hargraves Wood and others

Books 7225, 7222, B 2173 and Bulletin 563

	<u>Feet</u>
ISOLATED BENCH MARKS (By Hargraves Wood, 1898; Book 7225 and Bulletin 563 corrected, C. B. Bailey, 1898; Book 7222, R. G. Clinite, 1925; Book B 2173)	
Hancock; at Hancock Bank building; 14 ft S. of S. curb of Main Street; 1.2 ft higher than level of sidewalk; 1.7 ft W. of W. edge of front door; in stone doorsill; standard tablet stamped "MARYLAND C 448" (Tied by NGS, 1941)	448.241
Pectonville, 1.6 mi S. of; 0.5 mi NE. along rd., thence 1.7 mi NW. along Chesapeake and Ohio Canal from Cherry Run; at canal viaduct over Licking Creek; in S. side at SW. corner of wingwall; 4 ft from W. end of wall; about 2 ft below top of coping; in second tier of masonry; standard tablet stamped "MARYLAND C 402" (Reported destroyed, 1951)	402.279
Berkeley Springs; in W. face of SW. cornerstone of Morgan County Courthouse; standard tablet stamped "612 C" (Reported destroyed)	611.989
Stotlers Crossroad, 0.5 mi N. of; at first ford of Sleepy Creek; about 25 ft N. of N. entrance to ford; on E. side of rd.; in cleft of rock about 4 ft above roadway; standard tablet stamped "662 C" (Reported destroyed prior to 1914)	662.164
Tomahawk; at barn of W. W. Hedges; in NE. corner of foundation stone; standard tablet stamped "466 C"	466.616
Needmore, 7.3 mi S. of, along rd. to Hancock; 40 ft SW. of rd. forks; on W. side of rd.; 10 ft inside fence; in wooded ground; in concrete post; standard tablet stamped "C 9 1925" (Reported destroyed, 1957)	540.664
<u>LINE 1.</u>	
E. O. Miner, 1947; Book AV 16	
Hancock; 3.7 mi W. of post office, along U. S. Highway 40; 60 ft SE. of T-junction with State Highway 453; at abandoned house; in top of NW. corner of foundation; standard tablet stamped "41 EQM 1947 529"	529.404
Reference mark; 0.12 mi S. of tablet; at N. one of two concrete bridges; on top of N. end of NW. wingwall; chiseled square	515.50
U.E., Hancock, 3.4 mi W. of, along U. S. Highway 40, thence 0.6 mi NE. along macadam rd.; 200 ft NE. of farmhouse; at high point in rd.; 30 ft SE. of center of, and 9 ft higher than rd.; on top of 2- by 3- ft 5-ft boulder; chiseled square	524.14
Hancock, 3.0 mi W. of, along Tonoloway Creek Road (macadam); 130 ft NW. of crossroad; in NW. wingwall of concrete bridge; in step 7 ft lower than rd.; standard tablet stamped "42 EQM 1947 461"	461.297

4
HANCOCK
Book AV 16

W.VA.-MD.-PA.

E. O. Miner

1947

LINE 2 (Cont'd.)Feet

Reference mark; 170 ft S. of tablet; on top of SW. corner of wooden-floored bridge over Tonoloway Creek; chiseled square	464.70
U.E., Hancock, 2.1 mi W. of, along Tonoloway Creek Road; 310 ft W. of Y-junction with graveled rd.; 25 ft S. of and 4 ft higher than rd.; on top of E. end of rock outcrop; chiseled square	472.22
Hancock; 1.2 mi W. of post office, along Tonoloway Creek Road; 55 ft E. of T-junction with unimproved rd. N.; 20 ft N. of center of rd.; in top of 2- by 1- by 5-ft boulder; standard tablet stamped "43 EOM 1947 443"	443.301
Reference mark; 50 ft E. of tablet; on top of 3- by 3- by 4-ft projection of cutbank; chiseled square	447.89
Maryland Geodetic Survey standard disk stamped "WA 1" (Elevation by NGS)	414.560

LINE 2.

E. O. Miner, 1947; Book AV 16

Reference mark to "41 EOM 1947 529" (Described in line 1) 515.50

LINE 3.

E. O. Miner, 1947; Book AV 16

"W 42 1941" (NGS) 429.126

Hancock, 3.0 mi SE. of, along U. S. Highway 40, thence 1.5 mi NE. along dirt rd.; 64.5 ft SW. of SW. corner of white house; 46.5 ft SE. of powerline pole; 34.5 ft SW. of black-cherry tree; 22 ft SE. of center of junction of rd. W.; in concrete post projecting 0.5 ft above ground; standard tablet stamped "TT 3 CWH 1947 778"

777.932

Rehoboth Church, 2.2 mi SE. of; 4.7 mi NE. of Western Maryland Railway station at Hancock; 150 ft SW. of white house; 100 ft SE. of red barn; 32 ft N. of center of rd.; 23 ft W. of SW. fence corner; 18 ft E. of center of rd. to house; in concrete post projecting 0.2 ft above ground; standard tablet stamped "TT 2 CWH 1947 709"

709.221

Reference mark; 0.14 mi E. of tablet; at ford across Ditch Run; at S. edge of rd.; 1 ft higher than creek; on top of rock ledge; chiseled square

632.26

Rehoboth Church, 0.2 mi S. of, along Pennsylvania Highway 928; 150 ft N. of red barn; 100 ft NW. of yellow house; 29.5 ft W. of powerline pole; 13.5 ft NW. of center of hwy.; 5 ft NE. of NE. corner of unpainted shed; 2 ft E. of fence; in concrete post; standard tablet stamped "TT 1 CWH 1947 816"

815.941

Reference mark; 0.2 mi N. of tablet; in front of Rehoboth Church; on top of S. end of concrete retaining wall; chiseled square

825.20

LINE 4.

E. O. Miner, 1947; Book AV 16

"W 42 1941" (NGS) Reported Destroyed 1974 421.653

5	HANCOCK	W.VA.-MD.-PA.	E. O. Miner
	Book AV 16		1947
<u>LINE 4 (Cont'd.)</u>			<u>Feet</u>
Big Pool; at right-angle turn in State Highway 56; 8 ft S., thence 22 ft W. from junction of hwy. and rd. NW.; 2 ft higher than junction; 7 ft S. of powerline pole; 3 ft N. of signpost; 2 ft E. of concrete wall; in 7- by 7-in. concrete post; standard tablet stamped "TT 23 CWH 1947 435" (Not found, 1974)			435.089
U.E., Big Pool, 0.8 mi NE. of, along State Highway 56; 1.0 mi SW. of Indian Springs; 45 ft NW. of woods line SE.; on top of concrete headwall of culvert; chiseled square			522.19
Indian Springs, 36 ft N. of, thence 57 ft E. from junction of U. S. Highway 40 and rd. NE. and at same elevation; 43 ft SE. of SE. corner of Indian Springs Store; 5 ft E. of "Stop" sign; 2 ft NW. of SW. fence corner; in 7- by 7-in. concrete post; standard tablet stamped "TT 24 CWH 1947 545"			545.420
Reference mark; 0.14 mi W. of tablet; 50 ft SE. of T-junction of U. S. Highway 40 and State Highway 56; on top of 2- by 3- by 4-ft boulder; chiseled square			536.69
<u>[Jogs into Williamsport quadrangle]</u>			
U.E., Indian Springs; 1.4 mi NE. of store, along macadam rd.; at SW. corner of hwy. bridge over Lanes Run; on top of corner of concrete base of retaining wall; 5 ft lower than rd.; chiseled square			507.93
Indian Springs; 2.2 mi N. of store, along macadam rd.; 5 ft S. and 30 ft E. of, and 3 ft higher than junction of dirt rd. NE.; 41 ft NE. of mailbox; in 7- by 7-in. concrete post; standard tablet stamped "TT 25 CWH 1947 554"			554.182
U.E., Indian Springs; 3.9 mi N. of store, along macadam rd.; 50 ft E. of S. corner of triangle formed by Y-junction of macadam rds.; on top of 1- by 3- by 5-ft boulder; chiseled square			547.94
Indian Springs; 4.2 mi N. of store; 17 ft N. and 8 ft E. of point at center of rd. in line with NE.-SW. fence separating field and woods; 17 ft NE. of, and level with center of rd.; in 7- by 7-in. concrete post; standard tablet stamped "TT 26 CWH 1947 595"			595.147
U.E., Indian Springs, 5.2 mi N. of; 1.1 mi S. of Maryland-Pennsylvania State line, along macadam rd.; 60 ft S. of fenceline W.; 20 ft W. of center of rd.; on top of 1- by 2-ft boulder; chiseled square			730.21
Sylvan, 2.5 mi S. of; 6.4 mi NW. of Indian Springs; about 300 ft N. of Maryland-Pennsylvania State line; 61 ft S. and 7 ft E. of, and 1 ft higher than junction of dirt rd. N.; 18 ft SW. of center of rd.; 6 ft NE. of fence; in 7- by 7-in. concrete post; standard tablet stamped "TT 27 CWH 1947 548"			548.507
Reference mark; 240 ft NW. of tablet; on top of NE. headwall of masonry culvert; chiseled square			542.42
Sylvan, at S. side of Yeakle Mill, near SW. corner; 5 ft above ground; in foundation stone; standard tablet stamped "C 467"			467.240

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HANCOCK
Book AV 16

W.VA.-MD.-PA.

E. O. Miner

1947

LINE 4 (Cont'd.)Feet

Sylvan, 0.8 mi S. of; on Pennsylvania Highway 456; Little Cove Road; at S. entrance to Little Cove Creek Methodist Episcopal Church; in SE. corner of second concrete step; standard tablet stamped "TT 4 D 1934" (Tied by NGS, 1942) 516.452

LINE 5.

E. O. Miner, 1947; Book AV 16

U.E., Stonybreak, 1.9 mi S. of; 43 ft NE. of NW. corner of Blackoak Ridge Methodist Episcopal Church; on top of 1- by 1-ft boulder; chiseled square 897.70

Blackoak Ridge Methodist Episcopal Church, 0.8 mi S. of; 5.4 mi NW. of Hancock; 35 ft SW. of T-junction with driveway E.; in top of stone post; standard tablet stamped "49 EOM 1947 760" 759.558

Blackoak Ridge Church, 2.1 mi SE. of, along Tonoloway Creek Road; 200 ft NW. of Maryland-Pennsylvania State line; 50 ft SE. of four-way rd. intersection; at E. corner of concrete bridge over Minnow Run; in top of wingwall; Pennsylvania Department of Highways standard disk stamped "498" 497.831

"42 EOM 1947 461" (Described in line 2) 461.297

LINE 6.

J. W. McLaughlin, 1947; Book AV 18

"E 43 1941" (NGS) 469.851

Hancock, 6.7 mi SW. of; in village of Sir Johns Run; on S. step of schoolhouse; in SE. corner of first step; standard tablet stamped "45 JMM 1947 442" (Reported disturbed, 1951) 441.806

Reference mark; 0.16 mi SW. of tablet; on N. curbing of small bridge over creek; chiseled square 456.92

U.E., Berkeley Springs; 0.9 mi N. of Morgan County Courthouse; at junction of West Virginia Highway 9 and rd. to Sir Johns Run; 30 ft N. of centerline of hwy.; 15 ft SE. of 10-in. maple tree; on top of large boulder; chiseled square 805.59

Berkeley Springs; at S. entrance to courthouse; in first step 9 in. S. of building; standard tablet stamped "46 JMM 1947 612" 611.832

Reference mark; 0.28 mi S. of tablet; on SE. wingwall of culvert over small creek; chiseled square 618.38

U.E., Berkeley Springs, 1.3 mi SW. of, along U. S. Highway 522; 45 ft S. of junction of hwy. and rd. E.; on N. headwall of concrete culvert; chiseled square 656.91

7
HANCOCK
Book AV 18

W.VA.-MD.-PA.

39-078-12
J. W. McLaughlin

1947

LINE 6 (Cont'd.)

Feet

Berkeley Springs, 2.2 mi SW. of, along hwy.; 95 ft S. of centerline of T-rd. E. to Stotlers Crossroad; 40 ft E. of centerline of hwy.; in top of rock; standard tablet stamped "47 JMM 1947 685"	684.560
Reference mark; 40 ft S. of tablet; on S. headwall of concrete culvert; chiseled square <u>Jogs into Paw Paw quadrangle</u>	683.49
U.E., Berkeley Springs, 3.1 mi SW. of, along U. S. Highway 522; about 150 ft E. of brick house standing on W. side of rd.; in NE. headwall of concrete culvert; chiseled square	725.37
Stotlers Crossroad, 0.7 mi W. of; 440 ft N. of T-rd. W.; on S. end of concrete bridge over Middle Fork Creek; in W. wingwall of bridge; standard tablet stamped "51 JMM 1947 RESET 1979"	666.659
U.E., Stotlers Crossroad, in village of; 30 ft NE. of center of crossroad; 10 ft W. of red barn; on S. end of stone retaining wall; chiseled square	752.20
U.E., Stotlers Crossroad, 0.6 mi N. of; 3.2 mi S. of Highland Church; 100 ft NW. of T-rd. NE.; at SE. end of concrete bridge over creek; on SW. wingwall of bridge; chiseled square	714.94
Highland Church, 2.0 mi S. of; at NE. end of concrete culvert over small creek; in NW. wingwall; standard tablet stamped "52 JMM 1947 877"	876.531
Highland Church; at E. entrance to church; in N. corner of first concrete step; standard tablet stamped "53 JMM 1947 956"	956.234
Highland Church, 1.3 mi N. of; 0.8 mi S. of Duckwall School; 80 ft S. of red house standing on E. side of rd.; 15 ft E. of centerline of rd.; in top of rock; standard tablet stamped "54 JMM 1947 896"	896.237
Duckwall School, 1.2 mi N. of; on NW. end of steel bridge over Sleepy Creek; in NE. wingwall of bridge; standard tablet stamped "55 JMM 1947 589"	588.451
Reference mark; 140 ft SE. of tablet; on SW. wingwall of bridge; chiseled square	588.40
New Hope, in village of; 40 ft SE. of Y-rd. E.; in top of E. headwall of concrete culvert; standard tablet stamped "56 JMM 1947 579" (Reported destroyed, 1958)	578.634
Reference mark; 0.14 mi NE. of tablet; 120 ft S. of T-rd. S.; on W. wingwall of concrete bridge; chiseled square	565.76
Spohrs Crossroad, in village of; at NE. entrance to Stohrs Crossroad Morgan County School; in SE. end of concrete step of school; standard tablet stamped "57 JMM 1947 688" (Not found, 1947)	687.845
Spohrs Crossroad, 1.9 mi NE. of; 7.6 mi NE. of town square at Berkeley Springs; 25 ft E. of white house; 15 ft NW. of centerline of rd.; 11 ft NE. of 18-in. walnut tree; 6 ft N. of mailbox; 1.5 ft SE. of yard fence; in concrete post projecting 0.2 ft above ground; standard tablet stamped "TT 5 CWH 1947"	505.335

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HANCOCK
Book AV 18

W.VA.-MD.-PA.

J. W. McLaughlin

1947

LINE 6 (Cont'd.)Feet

- Hancock; 3.9 mi SE. of Baltimore and Ohio Railroad station; (0.15 mi E. to rd. forks, thence 3.25 mi E. along airport rd. to rd. S., thence 0.5 mi S.) at right-angle bend in rd.; 23 ft NW. of end post of NW.-SE. fence; 11 ft NW. of centerline of rd.; 4.5 ft SE. of 15-in. white oak tree; in concrete post projecting 0.2 ft above ground; standard tablet stamped "TT 4 CWH 1947" 660.999
- "W 42 1941" (NGS) (Also in line 3) 429.126

LINE 7.

J. W. McLaughlin, 1947; Book AV 18

- Sphrs Crossroad, 1.5 mi NE. of, thence 1.7 mi SE., along West Virginia Highway 9; 0.3 mi NE. of West Virginia Highway 9; 50 ft NE. of powerline pole; 15 ft N. of E.-W. rd. and rd. S.; 2 ft S. of fence; in concrete post projecting 0.3 ft above ground; standard tablet stamped "TT 6 CWH 1947" 640.334
.314
- Sphrs Crossroad, 4.1 mi SE. of, along West Virginia Highway 9; 350 ft S. of powerline crossing; 24 ft W. of centerline of hwy.; 8 ft NNW. of 17-in. white oak tree; 5 ft E. of 22-in. black oak tree; in concrete post projecting 0.3 ft above ground; standard tablet stamped "TT 7 CWH 1947" 748.424
.424
- Providence United Brethren Church, 3.1 mi N. of; 150 ft NW. of red brick house; 20 ft E. of centerline of hwy.; 8 ft SE. of S. end of guardrail; in concrete post projecting 0.3 ft above ground; standard tablet stamped "TT 8 CWH 1947" 493.358
.158
- Reference mark; 230 ft N. of tablet; at concrete culvert over Cherry Run; on SE. headwall; chiseled square 492.34
- Providence United Brethren Church, 1.1 mi N. of; on projection of centerline of NE.-SW. rd.; 21 ft SE. of mailbox; 11 ft SW. of centerline of NW.-SE. rd.; 2 ft N. of fence; in concrete post projecting 0.3 ft above ground; standard tablet stamped "TT 9 CWH 1947" (Reported destroyed, 1958) 592.283
- U.E., Providence United Brethren Church, at NE. entrance; on W. concrete step; chiseled square 589.29

LINE 8.

E. O. Miner, 1947; Book AV 16

- Jones Springs; 0.9 mi NW. of Methodist Church (0.6 mi N. along hwy., thence 0.3 mi NW. along dirt rd.); 30 ft WSW. of center of rd.; 12 ft ESE. of 15-in. black walnut tree; in concrete post projecting 0.3 ft above ground; standard tablet stamped "TT 12 CWH 1947 629" 629.557
- Reference mark; 158 ft S. of tablet; 60 ft W. of Y-junction of macadam rd. and graveled rd. N.; in orchard; on top of 3- by 2- by 7-ft boulder; chiseled square 722.04

9
 HANCOCK W.VA., MD., PA. E. O. Miner
 Book AV 16 1947

LINE 8 (Cont'd.)Feet

Jones Springs; 3.0 mi NW. of Methodist Church (0.6 mi N. along hwy., thence 1.3 mi NW. along dirt rd. to rd. junction, thence 1.1 mi N.); on projected line of N. edge of apple orchard; 18 ft W. of center of rd.; 14 ft NW. of 15-in. hickory tree; in concrete post; standard tablet stamped "TT 11 CWH 1947 746"

746.145

Berkeley Springs; 19.5 ft SE. of town square (0.2 mi S. along U. S. Highway 522, thence 15.5 mi SE. along West Virginia Highway 9, thence 2.5 mi NW. along paved rd. to rd. forks, thence 1.3 mi NW. along dirt rd.); 1.0 mi S. of Providence United Brethren Church; 100 ft SE. of white house; 53 ft NW. of telephone pole; 43 ft NE. of rd. junction; 9 ft SW. of two-trunked tree; in concrete post projecting 0.3 ft above ground; standard tablet stamped "TT 10 CWH 1947 514" (Reported destroyed, 1958)

514.003

U.E., chiseled square (Described in Line 7)

589.39

LINE 9.

E. O. Miner, 1947; Book AV 16

There are no permanent marks on this line in this quadrangle.

Photostat Neg. Available in Md 69

69nd Pa 10 123W.VA
HANCOCK QUADRANGLE

Eks. A H45a (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

master

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA
Mag. decl. 6°25' W.
FULTON AND FRANKLIN COUNTIES
PENNSYLVANIA
WASHINGTON COUNTY, MARYLAND
MORGAN, BERKELEY COUNTIES
WEST VIRGINIA

-1-

0. Hancock, 8.7 mi. NE. of Western Maryland R.R. sta., 2.7 mi. E. along U. S. Highway 40, thence 5.6 mi. N. along State Highway 65 to junction with State Highway 928, thence 0.3 mi. NE. along State Highway 928, thence 0.1 mi. E. on dirt rd.; set in SW. corner of Boardyard county school building porch, 8 ft. SW. of W. edge of front or S. entrance, 3 ft. NE. of SW. corner of porch; standard tablet stamped "T T 6 D 1934"
(Also on Needmore quadrangle, Pa.)

..... 39 45 54.29 78 05 55.76

24. Hancock, 6.0 mi. NE. of Western Maryland R.R. sta., 0.7 mi. E. along U. S. Highway 40, thence 0.9 mi. NE. along paved rd. to rd. fork, thence 4.4 mi. N. along northerly rd., 150 ft. N. of red barn. 100' ft. WNW. of yellow house, 29.5 ft. W. of power pole, 13.5 ft. WNW. of center line of rd., 5 ft. NE. of NE. corner of unpainted shed, 2 ft. E. of fence, in concrete post projecting 6 in. above ground; standard tablet stamped

"T T 1 CWH 1947" (9278) 39 44 53.21 78 07 24.36

28+. Photo point 5-74 A,
center line of rd. at long
tangent of rd. E.

2485 39 44 28.73 78 07 26.81

40a. P. P. 5-74 B,
center line of E.-W. rd. at
rd. N. through orchard

6008 39 43 32.69 78 07 52.19

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-PENNSYLVAN

Bks. A H45a (fld.)
 " A H46a (cmp.)
 By C. W. Haas, 1947
 1/1/48 msf

(Cont'd, p. 2)

47. Hancock, 4.7 mi. NE. of W. M. R.R. sta., 0.7 mi. E. along U. S. Highway 40, thence 0.9 mi. NE. along paved rd. to rd. fork, thence 2.35 mi. N. along northerly rd., thence 0.75 mi. E. along dirt rd., 150 ft. SW. of white house, 100 ft. SE. of red barn, 35 ft. N. and 34 ft. E. of center line of rd. at driveway to house N., 23 ft. W. of SW. fence corner, in concrete post; standard tablet stamped
- "T T 2 CWH 1947" 2203 39 43 37.53 78 07 29.11
- 65a. P. P. 5-08 A, center line of NE.-SW. rd. at Pa.-Md. State line crossing 3280 39 43 20.63 78 06 48.90
75. Hancock, 4.5 mi. NE. of W. M. R.R. sta., 3.0 mi. E. along U. S. Highway 40, thence 1.5 mi. N. along dirt rd., 64.5 ft. SW. of SW. corner of white house, 46.5 ft. SE. of power pole, 34.5 ft. WSW. of wild black-cherry tree, 22 ft. ESE. of center line of rd. and junction of rd. W., in concrete post projecting 4 in. above ground; standard tablet stamped
- "T T 3 CWH 1947" 5245 39 42 28.81 78 06 48.19
- 77+. P. P. 5-08 B, center line of rd. at rd. W. 1486 39 42 15.48 78 06 55.14
- 91+. P. P. 4-127 A, center line of hwy. at rd. N. 6054 39 41 20.21 78 07 25.78
- 107a. P. P. 4-127 B, center line of rd. at sharp bend at projection of NW.-SE. fence line 3881 39 40 41.95 78 07 29.11

HANCOCK QUADPANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Bks. A H45a (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

(Cont'd. p. 3)

107. Hancock, 3.9 mi. SE. of Baltimore and Ohio R.R. sta.,
0.15 mi. E. to rd. fork, thence 3.25 mi. E. along Airport rd.
to rd. S., thence 0.5 mi. S., at right-angled bend in rd.,
23 ft. NW. of end post of NW.-SE. fence, 11 ft. NW. of center
line of rd., 4.5 ft. SE. of 15-in. white-oak tree, in concrete
post projecting 3 in. above ground; standard tablet stamped
"T T 4 CWH 1947" 53 39 40 42.01 78 07 29.87
- 133a. P. P. 4-72 A, center line
of NE.-SW. rd. at junction of
rd. NW. (position doubtful)
 5427 39 39 49.23 78 07 16.98
143. Berkley Springs, 7.6 mi. E. of Town Square, 0.2 mi. S.
along Highway 522, thence 5.5 mi. E. along State Highway 9.
to Stohr's Crossroads, thence 1.6 mi. NE. along dirt rd. to
junction, thence 0.1 mi. NW. to rd. fork, thence 0.2 mi. N.,
25 ft. E. of white house, 15 ft. NW. of center line of rd.,
11 ft. NE. of 18-in. walnut tree, 6 ft. N. of a mail box,
1.5 ft. SE. of yard fence, in concrete post projecting 3 in.
above ground; standard tablet stamped
"T T 5 WCH 1947" 4233 39 39 15.64 78 07 49.24
- 148+, =838+. P. P. 4-72 B,
center of concrete bridge
over creek 1346 39 39 02.35 78 07 49.86
- 180a. P. P. 4-71 A, center line
of E.-W. rd. at tangent of
curve of rd. S. 6956 39 38 24.17 78 06 35.93

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Bks. A H45a (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

(Cont'd. p. 4)

180. Berkeley Springs, 8.4 mi. E. of Town Square, 0.2 mi. S.
along Highway 522, thence 7.9 mi. E. along State
Highway 9, thence 0.3 mi. E. along dirt rd., 50 ft. NE. of
power pole, 13 ft. N. of center line of E.-W. rd. and junction
of rd. S., 2 ft. S. of fence, in concrete post projecting 4 in.
above ground; standard tablet stamped
"T T 6 CWH 1947" 34 39 38 24.32 78 06 36.3
- 193+. P. P. 4-71 E, center line
of rd. at dirt rd. NE. 3503 39 37 54.89 78 06 12.7
204. Berkeley Springs, 9.9 mi. E. of Town Square, 0.2 mi. S.
along Highway 522, thence 9.7 mi. E. along State Highway
9, 350 ft. S. of power line crossing, 24 ft. W. of center line
of Highway , 8 ft. NNW. of 17-in. white-oak tree, 5 ft. E.
of 22-in. black-oak tree, in concrete post projecting 4 in.
above ground; standard tablet stamped
"T T 7 CWH 1947" 4980 39 37 18.32 78 05 30.18
- 205+. P. P. 4-71 C, inter-
section of State Highway 9,
and dirt cross road 1136 39 37 08.18 78 05 23.97
- 210+. P. P. 3-203 C, center
line of hwy. at dirt rd. NE. 4268 39 36 35.08 78 04 50.18

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Bks. A H45a (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

(Cont'd. p. 5)

219. Berkeley Springs, 12.0 mi. SE. of Town Square, 0.2 mi.
S. along Highway 522, thence, 11.8 mi. SE. along State
Highway 9, 150 ft. NW. of red brick house, 20 ft. E. of center
line of hwy., 8 ft. SE. of S. end of guard rail, in concrete
post projecting 4 in. above ground; standard tablet stamped
"T T 8 CWH 1947" 5352 39 35 55.69 78 04 04 55
- 222a. P. P. 3-203 A, center
line of hwy. at short tangent
of dirt rd. WSW. 1558 39 35 40.38 78 04 02 25
- Bks. A H45b (fld.)
" A H46a (cmp.)
- 257a. P. P. 3-203 B, junction
of NW.-SE. rd. and rd. NE. (7142) 39 34 34.92 78 04 36.54
257. Berkeley Springs, 14.0 mi. SE. of Town Square, 0.2 mi.
S. along Highway 522, thence 12.5 mi. SE. along State
Highway 9, thence 1.3 mi. SW. along dirt rd., on projection
of center line of NE.-SW. rd., 21 ft. SE. of mail box, 11 ft.
SW. of center line of NW.-SE. rd., 2 ft. N. of fence, in concrete
post projecting 4 in. above ground; standard tablet stamped
"T T 9 CWH 1947" *Dist 1958* 11 39 34 34.86 78 04 36.66
- 286+. P. P. 3-192 A, center line
of rd. at fence line E. 4665 39 33 48.87 78 04 40.79

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIABks. A H45b (fld.)
" A H46a (cmp.)
Fy C. W. Haas, 1947
1/1/48 msf

(Cont'd. p. 6)

307. Berkeley Springs, 19.5 mi. SE. of Town Square, 0.2 mi. S.
along Highway 522, thence 15.5 mi. SE. along State
Highway 9, thence 2.5 mi. NW. along paved rd. to rd. fork,
thence 1.3 mi. NW. along dirt rd., 100 ft. SE. of white-house,
53 ft. NW. of telephone pole, 42 ft. N. and 7 ft. E. of rd.
junction, 9 ft. SW. of double-trunked willow tree, in concrete
post projecting 4 in. above ground; standard tablet stamped
"T T 10 CWH 1947" *Dist 1958* 4013 39 33 10.73 78 04 26.7
- 310a. P. P. 3-192 B, center line
of E.-W. rd. at rd. S. 1221 39 33 08.35 78 04 42.07
- 327+. P. P. 3-192 C, center line
of rd. at rd. E. 6045 39 32 11.83 78 05 07.10
8. 340. Jones Springs, 3.0 mi. NW. of Methodist Church, 0.6 mi. N.
along hwy., thence 1.3 mi. NW. along dirt rd. to rd. junction,
thence 1.1 mi. N., on projected line of N. edge of apple orchard,
18 ft. W. of center line of rd., 14 ft. NW. of 15-in. hickory
tree, in concrete post projecting 4 in. above ground;
standard tablet stamped
"T T 11 CWH 1947" 3167 39 31 42.82 78 05 22.25
- 344+. P. P. 3-130 A, center
line of rd. at rd. W. 940 39 31 33.75 78 05 24.84
- 358a. P. P. 3-130 B, center
line of rd. at field rd. SE. 4986 39 30 44.80 78 05 32.04

H. COCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Eks. A H45b (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

(Cont'd. p. 7)

366. Jones Springs, 0.9 mi. NW. of Methodist Church, 0.6 mi. N. along hwy., thence 0.3 mi. NW. along dirt rd., 30 ft. WSW. of center line of rd., 12 ft. ESE. of 15-in. black-walnut tree, in concrete post projecting 4 in. above ground; standard tablet stamped "T T 12 CWH 1947" 2866 39 30 16.97 78 05 38.86 (86)

372a. P. P. 3-130 C, center line of State Highway 9, at dirt rd. N. 1656 39 30 02.28 78 05 29.5 (57)

EKS. A H45d (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

730+. P. P. 4-67 B, center line of rd. at rd. to barn N. (2294) 39 39 49.92 78 00 06.85

740a. Center line of rd. at fence line N. 2340 39 39 55.76 78 00 35.80

748. Indian Springs, 2.2 mi. N. of Indian Springs store, along macadam rd., 5 ft. S. and 30 ft. E. of junction of dirt rd. NE., and 3 ft. higher in clov., 41 ft. NNE. of mail box, in concrete post; standard tablet stamped "T T 25 CWH 1947"

1915 39 40 13.49 78 00 44.34

750+. P. P. 4-67 A, center line of rd. at fence line ENE. 1033 39 40 20.60 78 00 53.81

753a. Center line of rd. at dirt rd. SW. 1480 39 40 34.34 78 01 00.32

HANCOCK QUADRANGLE

Bks. A H45c (fld.)
 " A H46a (emp.)
 By C. W. Haas, 1947
 4/2/48 mcf

WEST VIRGINIA-MARYLAND-

PENNSYLVANIA
 FULFON and FRANKLIN COUNTY, P.
 WASHINGTON COUNTY, Md.
 BERKELEY and MORGAN COUNTY
 WEST VIRGINIA

(Cont'd. p. 7a)

526+.	P. P. 3-127 B, center line of rd. at tangent of curve of dirt rd. WNW.	(3383)	39 30 06.92	78 00 10.59	(.59)
528+.	Center line of rd. at fence line WNW.	1881	39 30 24.50	78 00 02.12	(.79)
550a.	P. P. 3-127 A, center line of N.-S. rd. at rd. ESE.	(1807)	39 31 30.49	78 00 18.8	(.87)
553a.	Center line of rd. at field rd. ESE.	1977	39 31 47.78	78 00 07.13	
687+.	Center line of Highway 56 at old dirt rd. SW.	(1819)	39 37 03.79	78 00 02.52	
692+.	Center line of Highway 56 at dirt rd. to farm NE.	2758	39 37 08.57	78 00 37.23	
695a.	Center of concrete bridge over creek	1823	39 37 20.76	78 00 54.38	
699.	Big Pool, at right-angle turn in Highway 56, 8 ft. S. and 22 ft. W. of junction of hwy. and rd. NW., and 2 ft. higher in elev., 7 ft. S. of power pole, 3 ft. N. of signpost, 2 ft. E. of concrete wall, in concrete post; standard tablet stamped "T T 23 CWH 1947"	1816	39 37 34.32	78 01 09.58	

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIABks. A H45d {fld.}
A H46a {cmp.}
By C. W. Haas, 1947
4/1/48 msf

(Cont'd. p. 8)

762+. Centerline of rd at field rd W.	2461	39 40 58.28	78 01 05.84
766+., P. P. 4-130 A, center of concrete bridge over creek	1139	39 41 08.80	78 01 11.01
773a. Center line of rd at Y-rd. NW.	1789	39 41 25.91	78 01 16.69
782. Indian Springs, 4.2 mi N. of, 3.2 mi N. along macadam rd. from Indian Springs store to rd fork, thence 1.0 mi N. along easterly fork, 17 ft N. and 8 ft E. of centerline of rd. at projection of NE.-SW. fence line between field and woods, and at same elev., 17 ft NE. of centerline of rd., in concrete post, standard tablet stamped "TT 26 CWH 1947"	2063	39 41 45.86	78 01 11.20
785a. Centerline of rd. at field rd NE.	954	39 41 55.25	78 01 12.28
791a. P. P. 5-05 B, center- line of rd. woods rd. SE.	3279	39 42 27.33	78 01 06.36
795+. Centerline of rd at fence line W.	2379	39 42 50.80	78 01 08.05
803a. Centerline of rd at fence line SW.	1952	39 43 08.25	78 01 18.68
807a. P. P. 5-05 A, junction of NW.-SE. rd and dirt rd N.	2170	39 43 25.26	78 01 35.59

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIAEks. A H45c (110.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/2/48 msf

(Cont'd. p. 8a)

699a.	P. P. 4-61 A, junction of Highway 56, and rd. NW.	23	39 37 34.39	78 01 09.88
701+.	Center line of Highway 56 at concrete walk to house SE.	1879	39 37 48.89	78 00 54.28
704+.	Center line of Highway 56 at fence line ESE.	2013	39 38 05.67	78 00 40.44
708+.	Center line of Highway 56 at driveway SSE.	1741	39 38 18.78	78 00 26.05
715a.	P. P. 4-67 C, junction of Highway 56 and Highway 40	2868	39 38 45.77	78 00 14.88
717.	Indian Springs, 57 ft. E. and 36 ft. N. of junction of Highway 40 and rd. NE., and at same elev., 43 ft. SE. of SE. corner of Indian Springs store building, 5 ft. E. of "Stop" sign, 2 ft. NW. of SW. fence corner, in concrete post; standard tablet stamped "T T 24 CWH 1947"	697	39 38 47.18	78 00 06.15

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Bks. A H45d (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
/1/48 msf

(Cont'd. p. 9)

807. Indian Springs, 6.4 mi. N. of, 3.2 mi. N. along macadam rd.
from Indian Springs store to rd. fork, thence 3.2 mi. N. along
easterly fork, 61 ft. S. and 7 ft. E. of junction of dirt rd.
N. and 1 ft. higher in elev., 18 ft. WSW. of center line of rd.,
6 ft. NE. of fence, in concrete post; standard tablet stamped
"T T 27 CWH 1947" 61 39 43 24.65 78 01 35.49

815+. Center line of rd. at
field rd. NW. 2501 39 43 49.13 78 01 31.00

821+. Center line of rd. at
fence line SW. 2053 39 44 09.41 78 01 30.46

830+. P. P. 5-76 C, middle of
creek (ford) across rd. 1550 39 44 18.57 78 01 46.35

837. Hancock, 4.3 mi. SE. along W. M. R.R. from sta., thence
6.5 mi. NE. along State Highway 456, set in S. corner of the
middle or second concrete step at SW. entrance to Methodist
Church, 46.3 ft. NW. of center line of hwy., 7.5 ft. E. of
S. corner of building, 3.6 ft. SE. of SW. edge of SW. entrance;
standard tablet stamped "T T 4 D 1934"
2356 39 44 33.10 78 02 02.76

BKS. A H45f (fld.)
" A H46a (cmp.)

838. =143+. P. P. 4-72 B,
center of concrete bridge
over creek
(described in line) 39 39 02.35 78 07 49.86

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Eks. A H45f (fld.)

" A H46a (cmp.)

By C. W. Tras, 1947
4/1/48 ms

(Cont'd. p. 10)

861a. P. P. 4-56 A, center line of State Highway 9, at rd. SW. at irregular crossroads	7872	39 38 00.11	78 08 50.22
861A. Spohrs Crossroads, in village of, at NE. entrance to Spohrs Crossroads, Morgan Co. School, set in SE. end of concrete step of school; standard tablet stamped "57 JWM 1947 688"	74	39 38 00.52	78 08 51.00
874+. Center line of rd. at fence line SE.	3961	39 37 25.53	78 09 13.70
883a. P. P. 4-56 B, center line of rd. at rd. SE.	1550	39 37 18.34	78 09 31.19
893+. Center of small concrete bridge over creek	2463	39 37 00.07	78 09 51.99
899+. Center line of rd. at rd. to farm NE.	1740	39 36 43.77	78 09 59.01
901+. P. P. 3-206 A, center line of rd. at long tangent of rd. W.	1261	39 36 32.91	78 10 06.90
906+. Center line of rd. at fence line E.	2264	39 36 11.99	78 10 17.17
914a. Center line of rd. at rd. ENE.	2110	39 35 51.31	78 10 20.55
914A. New Hope, in village of, 40 ft. SE. of Y-rd. E., set in top of E. head wall of concrete culvert, standard tablet stamped "56 JWM 1947 579"	54	39 35 51.10	78 10 19.92

Des+ 1958

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIABks. A H45f (fld.)
" A H46a (cmp.)By C. W. Haas, 1947
4/1/48 msf

(Cont'd. p. 11)

921a. P. P. 3-206 B, center line of rd. at rd. SE.	1846	39 35 35.41	78 10 31.94
927a. Center line of rd. over culvert and small stream	1855	39 35 30.51	78 10 54.77
936a. Center line of rd. at trail W.	1762	39 35 16.02	78 11 07.25
946a. Center line of rd. at walk to house E.	2129	39 35 00.58	78 11 25.72
952a. P. P. 3-206 C, inter- section of crossroads	1354	39 34 50.11	78 11 36.47
954A. Duckwall School, 1.2 mi. N. of, on NW. end of steel bridge over Sleepy Creek, set in NE. wing wall of bridge; standard tablet stamped "55 JWM 1947 589"	703	39 34 49.30	78 11 27.55
960a. Center line of rd. over culvert and small stream	1503	39 34 36.57	78 11 17.67
967+. Center line of rd. at more northerly branch of rd. to house W.	1849	39 34 18.92	78 11 11.58
975+. P. P. 3-188 A, center line of rd. at rd. SE.	1843	39 34 00.75	78 11 09.95
985+. Center line of rd. at rd. E.	2214	39 33 40.36	78 11 20.20
992A. Highland Church, 1.3 mi. N. of, 0.8 mi. S. of Duckwalls School, 80 ft. S. of red house standing on E. side of rd., 15 ft. E. of center line of rd., -set in top of rock; standard tablet stamped "54 JWM 1947 896"	1697	39 33 24.25	78 11 26.23

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYIA ND-
PENNSYLVANIA

Eks. A H45f (fld.)

" - A H46a (cmp.)

By C. W. Haas, 1947

4/1/48 msf

(Cont'd. p. 12)

992+.	Center line of rd. at long tangent of rd. W. along northerly edge of orchard	120	39 33	23.14	78 11	31.72
995+.	P. P. 3-188 B, center line of rd. at fence line WNW.	1650	39 33	07.57	78 11	32.99
998+.	Center line of rd. at rd. E.	2062	39 32	48.64	78 11	42.75
1000+.	Center line of rd. at rd. E.	1789	39 32	32.60	78 11	52.37
1002A.	Highland Church, at E. entrance to church, set in N. corner of first concrete step; standard tablet stamped "55 JWM 1947 956"	1000	39 32	22.97	78 11	57.25
1003+.	P. P. 3-188 C, center line of rd. at rd. SE.	1209	39 32	11.63	78 12	02.09
1010+.	Center line of rd. at rd. W.	2518	39 31	43.27	78 12	13.13
1018+.	Center line of rd. at fence line N. along W. edge of orchard.	2255	39 31	30.67	78 11	55.49
1021a.	P. P. 3-134 C, center line of NW.-SE. rd. at rd. SW.	1435	39 31	25.91	78 11	38.24
13 1025A.	Highland Church, 2.0 mi. S. of, in NE. end of concrete culvert over small creek, set in NW. wing wall; standard tablet stamped "52 JWM 1947 877"	2338	39 31	05.74	78 11	52.81

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Eks. A H45f (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

(Cont'd. p. 13)

1029+. Center line of rd. at rd. ESE.	671	39 31 02.50	78 12 00.27
1037+. Center line of rd. at woods rd. E.	1874	39 30 49.85	78 12 17.9 ⁹ (.74)
1047+. P. P. 3-134 B, center of bridge over small stream	2111	39 30 30.80	78 12 28.73
1055+. Center of bridge over small creek	1715	<u>39 30 19.62</u>	<u>78 12 45.15</u> -
1067a. Junction of E.-W. rd. and N.-S. paved rd.	2964	39 30 32.54	78 13 19.09 ⁹
1070+. Center line of rd. at driveway W.	2437	39 30 55.86	78 13 26.90
1073A. Stotlers Crossroad, 0.7 mi W. of; 440 ft N. of T-rd. W.; on S. end of concrete bridge over Middle Fork Creek; in W. wingwall of bridge; standard tablet stamped "51 JWM 1947 RESET 1979" Horizontal position lost			
1082+. Center line of rd. at long tangent of rd. NW.	1508	39 31 02.64	78 13 53.03
1099+. Center line of rd. at fence crossing	3172	39 30 39.28	78 14 20.01

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIABks. A H45f (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

(Cont'd, p. 14)

1107a. = ~~1177a.~~ Center line of
NW.-SE. rd. at long tangent
of rd. SW.

1647

39 30 45.52

78 14 39.43

1111+. Center line of rd. at
fence line SE.

1769

39 30 30.21

78 14 50.32 (.32)

Bks. A H45h (fld.)
" A H46a (cmp.)
By C. W. Haas, 19471279a. = 1107a. Center line of
NW.-SE. rd.

(described in line)

....

39 30 45.52

78 14 39.43

1290+. Center line of rd.
at fence line SW.

1572

39 30 57.87

78 14 51.60

1360+. Center line of rd.
at rd. SE.

(2373)

39 35 26.17

78 14 50.25

1363. P. P. 3-209 B, center
of culvert over drainage
ditch

2829

39 35 51.58

78 14 35.20

1364. Berkley Springs, 2.2 mi. SE. of along U.S. Highway 522,
95 ft. S. of center line of T-rd. E. to Stotlers Crossroads,
10 ft. E. of center line of hwy., set in top of rock;
standard tablet stamped

"47 JWM 1947 685"

53

39 35 51.82

78 14 34.59

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Eks. A H45h (fld.)

" A H45a (cmp.)

By C. W. Haas, 1947

4/1/48 msf

(Cont'd. p. 15)

1365+. Center line of hwy. at rd. NW.	2164	39 36 11.38	78 14 23.42
1369a. Center line of hwy. at rd. SE.	2750	39 36 37.30	78 14 12.87
1371+. P. P. 4-54 B, inter- section of crossroads	1733	39 36 50.85	78 13 59.32
1375+. Street E. at irregular intersection	2293	39 37 12.37	78 13 50.1..
1378A. Berkeley Springs, at S. entrance to Morgan County Courthouse, set in first step 9 in. S. of building; standard tablet stamped "46 JWM 1947 612"	2576	39 37 36.57	78 13 39.93
1379. P. P. 4-54 A, Street intersection	959	39 37 45.11	78 13 34.61
1389+. Center line of rd. at fence line W.	2491	39 37 37.85	78 14 05.03
1397+. Center line of rd. at rd. to house W.	2669	39 38 04.16	78 14 07.43
1402a. Center line of rd. at rd. N.	2283	39 38 24.87	78 13 55.85
1416+. Center of concrete bridge over creek	2284	39 38 47.36	78 13 58.23
1419. Sir Johns Run, in village of, on S. step of schoolhouse, set in SE. corner of first step; standard tablet stamped "45 JWM 1947 442" <i>Disturbed 1951</i>	840	39 38 52.86	78 14 06.27
1425A. P. P. 4-75 A, center of R. R. bridge over creek	1290	39 39 02.32	78 14 17.33

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIABks. A H45h (fld.)
A H40a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

(Cont'd. p. 16)

1435+. Center line of rd. at rd. SE.	2123	39 39	12.69	78 14	40.92
1460. Hancock, Md., 5.1 mi SW. of post office, 2.8 mi W. along Highway 40, thence 2.3 mi S., 13 ft N. and 27 ft W. of rd. fork and 2 ft higher in elevation, in line with first row of apple trees, in concrete post; standard tablet stamped "TT 34 CWH 1947" <i>Dist 1951</i>	(1415)	39 40	26.62	78 14	57.42
1461A. Center line of rd. at fence line E.	942	39 40	34.75	78 14	51.55
1455+. Center line of rd. at field rd E.	3445	39 41	04.35	78 14	29.80
1470a. P. P. 4-124 B, center line of rd. at rd E.	2094	39 41	21.92	78 14	15.64
1473+. Center line of rd. at field rd. SW.	2506	39 41	44.09	78 14	01.35
1478a. P. P. 4-124 A., rd. junction	2939	39 42	11.10	78 13	47.53
1478. Hancock, Md., 2.8 mi W. of post office, along Highway 40, 30 ft N. of junction of rd S., and 1 ft higher in eleva- tion, 8 ft NE. of 18-in. walnut tree, in concrete post; standard tablet stamped "TT 35 CWH 1947"	30	39 42	11.39	78 13	47.53
1493+. Center line of rd. at rd. NW.	1902	39 42	26.65	78 14	01.76

HANCOCK QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Bks. A H 45h (fld.)
" A H 46a (cmp.)
By C. W. Haas, 1947
4/1/48 msf

(Cont'd. p. 17)

- 1498+. P. P. 5-11 A, center
line of NE.-SW. rd. at rd.
W. at irregular crossroads 2313 39 42 46.59 78 13 47.28
- 1499A. Hancock, 3.4 mi. W. of post office at, along U. S.
Highway 40, thence 1.2 mi. NE. along macadam rd., 3.0 mi. W. of
Hancock along Tonoloway Creek rd., 130 ft. NW. of crossroads,
in NW. wing wall of concrete bridge, in a step 7 ft. lower
than rd.; standard tablet stamped "42 EOM 1947 461"
116 39 42 47.06 78 13 48.63
- 1502+. Center line of rd. at
rd. W. 1688 39 43 01.71 78 13 38.32
- 1507A. Hancock, Md. 4.2 mi. NW. of along Tonoloway Creek rd.,
200 ft. NW. of Pa.-Md. State line, 50 ft. SE. of four-way rd.
intersection, at E. corner of concrete bridge over Minnow Run,
in top of wing wall; P. D. H. brass tablet stamped "498"
2211 39 43 22.91 78 13 31.45
- 1508a. Center line of rd. at
easterly one of two rds. N. 45 39 43 23.15 78 13 31.93
- 1515+. Center line of rd. at
field rd. N. 2404 39 43 35.15 78 13 58.48

Bks. A H 45i (fld.)
" A H 46a (cmp.)

PENNSYLVANIA

- 1525+. P. P. 5-69 C, center
line of rd. at rd. SW. 2565 39 43 34.36 78 14 31.29
- 1532+. Center of bridge over
creek 1922 39 43 42.34 78 14 53.61

PA: X
 HANCOCK QD. ~~PRIMA~~ BY ROY C. DARNELL, 1934.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

8/11/34 10 (Cont'd. P. 18)

SRF

Eks'D995-6 (fld-cmp.)

NORTH AMERICAN DATUM.

9-776

FRANKLIN AND FULTON COUNTIES.

TRANSIT TRAVERSE BY R.C.DARNELL IN 1934. STATION	LATITUDE	LONGITUDE	Dist. bet. STATIONS Feet
ALONG HIGHWAYS- WEST NEAR NORTH EDGE OF QUADRANGLE.			
185A. Sylvan, 0.8 mi.S. of, on Little Cove rd., in SE. cor. of second concrete step of S. entrance to Little Cove Creek Methodist Episcopal Church; standard tablet stamped "T.T. 4-D-1932"	39 44 38.41	78 02 02.70	(4,640) ✓
189+. Intersection of rd. SE. to Yeagle's Mill	39 44 17.0	78 02 25.9	(10,778)
204A. Centerline of iron bridge over Licking Creek	39 43 24.3	78 03 36.0	7,643 ✓
204B. Indian Spring District, Washington Co., Md., 120 ft. E. of stock barn on the old John Bair property; original Pa.-Md. State marker on Mason-Dixon line. (Note: This marker was an original "Crown Top", but has been broken off about 6-in. above the ground.	39 43 20.69	78 02 56.20	3,134 ✓
211+. T-rd. NW. at cor. of wire fence	39 43 39.0	78 04 05.1	2,712 ✓ (Dist. from) (204 A)
218. Warren Point, 0.4 mi.E. of, 1 mi. W. of iron bridge over Licking Creek on State Hwy. Traffic Route, on rd. up Licking Creek, 48 ft.N. of triangular blaze on sycamore tree, 500 ft. W. of rd. fork, along very rocky bluff in large sandstone rock; standard tablet stamped "T.T.-5-D-1934"	39 44 16.9 ✓ 39-43-37.2	78 05 06.0 ✓ 78 04 50.9	4,865 ✓ 2025

F.S. Mac

WEST VIRGINIA

Publication 3-61

MERIDIAN MARK

#123 - Hancock

MORGAN COUNTY, BERKELEY SPRINGS

Bks. AH 669a {fld.}
AH 670a {cmp.}

By T. W. Cayce, 1961

Berkeley Springs, about 0.8 mi S. of courthouse; at center of
Greenway Cemetery; in top of 3- by 3-ft stone and concrete marker
("GAR post #13 W.VA.) projecting 2 ft.; standard tablet stamped
"MORGAN MERIDIAN 1961"

Geodetic azimuth from MORGAN MERIDIAN to MERIDIAN N: $179^{\circ}59'57".25$
At Greenway Cemetery; 7 ft E. of Buzzerd tombstone; in S. retaining
wall around the Buzzerd lot; standard tablet stamped
"MERIDIAN N 1961"

APPENDIX D

USGS vertical and horizontal controls for Williamsport, Md. 15 minute quadrangle

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

39-077-43
WILLIAMSPORT QUADRANGLE
68 MD.-122 W.VA.-9 PA.
N3930-W7745/15
DIAGRAM NJ 18-1
BALTIMORE

Washington County, Md.; Berkeley County, W. Va.;
Franklin County, Pa.

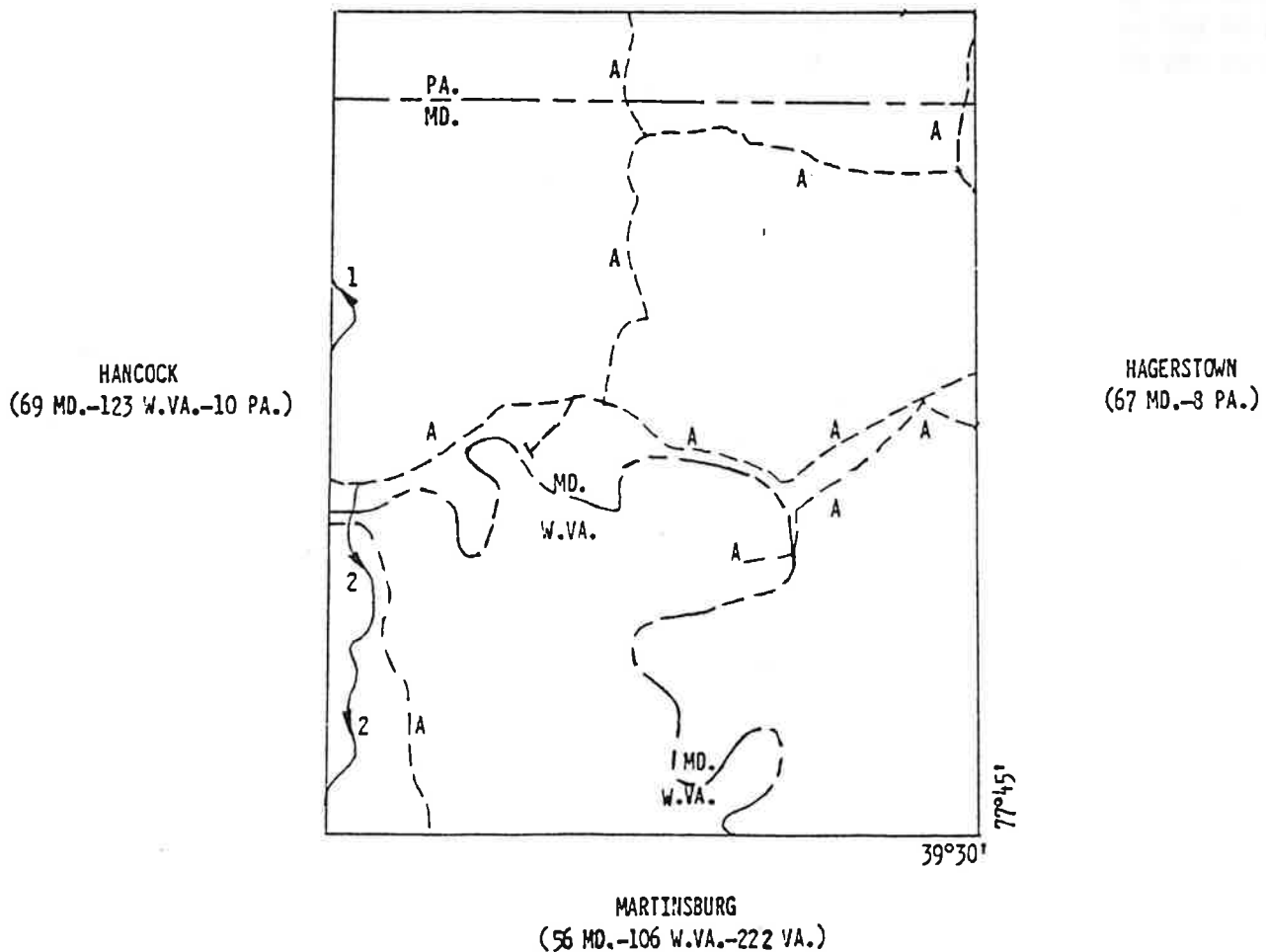
Only the permanent marks
are listed for lines
run more than 25 years
before edition date

Final adjustment of 1972

Edition of 10/23/74

PR: GWK/jyk

MERCERSBURG
(32)



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 390774

WILLIAMSPORT QUADRANGLE

39-077-43
N3930-W7745/15
68 MD.-122 W.VA.-9 PA.

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>	<u>NGS</u>	<u>PAGE NO.</u>
363	3	N 42 1941	4
372	3		
387	3		
390.840 FEET RESET 1948	3		
404	3		
406	3		
447 MD	3		
471	3		
473 MD	3		
539 MD	3		
566	3		
570	3		
607	3		
609	3		
PTS NO 1 1914 470	3		
TT 19 CWH 1947 652	4		
TT 20 CWH 1947 584	4		
TT 21 CWH 1947 544	4		
TT 22 CWH 1947 541	4		

ISOLATED BENCH MARKS (By J. M. Harris, 1908; Book A 7568, K. W. Trimble, 1914; Book A 9411)	<u>Feet</u>
St. James; opposite station; 50 ft from track; under porch of two-story frame cottage; standard tablet stamped "473 MD" (Reported destroyed, 1953)	472.903
Grimes, 0.4 mi S. of; at RR. bridge 705; in W. end of N. bridge seat; standard tablet stamped "390.840 FEET RESET 1948"	390.840
Halfway; 150 ft W. of RR. track; on Williamsport Pike; at concrete store of R. P. Beckley; in front face of SW. corner of store; standard tablet stamped "539 MD" (Reported not found, 1953)	538.910
Halfway, 2.9 mi SW. of; between county rd. and RR. track; in center of S. headwall of concrete box culvert under track; standard tablet stamped "447 MD"	446.751
Williamsport, 2.3 mi SW. of; at RR. bridge 82-2; in top of SW. corner of W. bridge seat; standard tablet stamped "363" (Reported destroyed, 1974)	362.456
Falling Waters, 0.6 mi SW. of; at concrete box culvert under RR. at telephone pole 85/31; in top of center of S. headwall; standard tablet stamped "404" (Reported in 1935 that bench mark had settled several inches) (Reported destroyed, 1974)	404.097
Bedington; 0.2 mi E. of station; on N. side of track; in RR. concrete culvert; standard tablet stamped "387" (Reported not found, 1955)	387.175
Berkeley; 0.3 mi N. of station; at overhead bridge; in front face of E. abutment; standard tablet stamped "471" (Reported not found, 1955)	471.203
"570" (Destroyed, 1978)	570.206
Fairview, 0.6 mi SE. of; at E. end of bridge over Conococheague Creek; N. end of top of abutment; standard tablet stamped "406" (Reported destroyed, 1953)	405.761
Dry Run; at NE. corner of brick schoolhouse; in front face; standard tablet stamped "609" (Reported not found, 1955)	608.254
Dry Run, 3.4 mi S. of; at Montpelier farm; at SW. corner of brick farmhouse; in front face; standard tablet stamped "607"	607.060
Clear Springs; at SW. corner of Potomac Hotel; in W. face; standard tablet stamped "566" (Reported destroyed, 1955)	566.116
Williamsport, 7.7 mi W. of; at Two Locks; 10 ft S. of gate; in top of Lock 46; E. wall; standard tablet stamped "372"	371.482
Berkeley, 0.3 mi NE. of; 45 ft N. of overhead bridge; 10 ft W. of C. V. RR. track; in limestone ledge; standard tablet stamped "PRIM TRAV STA NO 1 1914 470" (Reported not found, 1955)	470.169

Book AV 16

1947

LINE 1.feet

E. O. Miner, 1947; Book AV 16

There are no permanent marks on this line in this quadrangle.

LINE 2.

E. O. Miner, 1947; Book AV 16

"M 42 1941" (NGS) (Not found, 1974) 427.748

North Mountain, 1.6 mi N. of; 29 ft N. of mailbox; 20 ft SW. of house; 11 ft NE. of center of rd.; 2 ft SW. of tile block retaining wall; in 7- by 7-in. concrete post; standard tablet stamped "TT 22 CWH 1947 541" (Reported destroyed, 1955) 540.725

Reference mark; 0.15 mi SE. of tablet; on top of NW. corner of masonry culvert under RR. track; chiseled square 503.34

U.E., North Mountain, 0.8 mi N. of; 60 ft E. of center of rd.; 5 ft N. of NW. corner of main building of brick plant; on top of concrete wall; chiseled square 541.39

U.E., North Mountain; 30 ft NE. of grade crossing of main line of B. & O. RR.; on top of concrete base of warning bell; chiseled square 539.13

North Mountain, 0.4 mi W. of; 0.6 mi NE. of Hedgesville, from main square; 51 ft N. and 7 ft E. of center of rd. at driveway to house NW.; and at same elevation; 24 ft NW. of center of rd.; 5 ft SW. of telephone pole; in 7- by 7-in. concrete post; standard tablet stamped "TT 21 CWH 1947 544" 544.320

Reference mark; 70 ft E. of tablet; 14 ft SW. of NE. end of SE. headwall of concrete culvert; chiseled square 544.20

Hedgesville, 0.6 mi SE. of, along State Highway 9 from main square, thence 0.8 mi SW. along dirt rd.; 14 ft N. and 18 ft E. of crossroad, and at same elevation; 4 ft NE. of mailbox; 1 ft W. of fence; in 7- by 7-in. concrete post; standard tablet stamped "TT 20 CWH 1947 584" 584.139

Hedgesville, 1.6 mi SE. of, along State Highway 9 from main square, thence 1.1 mi SW.; about 710 ft SW. of junction of rd. through orchard; 52 ft SW. of power pole; 12 ft NW. of center of rd.; 1 ft E. of fence; in concrete post; standard tablet stamped "TT 19 CWH 1947 652" (not found, 1974) 652.155

Reference mark; 480 ft SW. of tablet; in NW. corner of woods; 35 ft SE. of center of rd.; in root on W. side of 4-ft oak tree; copper nail and washer 653.53

122 W. VA.

68 MD.

9 PA.

122 W-VA.

WILLIAMSPORT QUADRANGLE

Bks. A H45c (fld.)
" A H46a (cmp.)
By C. W. Haas, 1947
4/2/48 msf

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Mag. decl. 6°30' W.
FRANKLIN COUNTY, PA.
WASHINGTON COUNTY, MD.
BERKELEY COUNTY, W. VA.

1927 N.A.D.

- 531+. Center line of rd. at
dirt rd. WNW. (2470) 39 30 46.21 77 59 48.38
- 533+. Center line of rd. at
fence line WNW. 2443 39 31 07.77 77 59 34.35
- 534. Hedgesville, 2.7 mi. SE. of, 1.6 mi. SE. along
Highway 9 from main square, thence 1.1 mi. SW., about 710 ft.
SW. of junction of rd. W. thru orchard, 52 ft. SW. of power
pole, 12 ft. NW. of center line of rd., 1 ft. E. of fence, in
concrete post; standard tablet stamped
"T T 19 CWH 1947" 619 39 31 13.21 77 59 30.77
- 536a. P. P. 3-127 C, center
line of rd. at dirt rd. WNW. 707 39 31 19.32 77 59 26.40
- 539a. Center line of rd. at
Y-rd. SW. 2537 39 31 29.73 77 59 55.84
- 557a. Intersection of
crossroads (2800) 39 32 12.23 77 59 50.38
- 557. Hedgesville, 1.4 mi. SE. of, 0.6 mi. SE. along
Highway 9 from main square, thence 0.8 mi. SW. along dirt rd.,
14 ft. N. and 18 ft. E. of intersection of crossroads, and at
same elevation, 4 ft. NE. of mail box, 1 ft. W. of fence,
in concrete post; standard tablet stamped
"T T 20 CWH 1947" 23 39 32 12.36 77 59 50.15
- 559+. Center line of rd. at
rd. WNW. 2152 39 32 31.25 77 59 37.54

WILLIAMSPORT QUADRANGLE

WEST VIRGINIA-MARYLAND
PENNSYLVANIA

Bks. A H45c (fld.)

" A H46a (cmp.)

By C. W. Haas, 1947

4/2/48 msf

(Cont'd. p. 2)

1927 N.A.D.

562+. Center line of rd. at driveway to house ESE.	1522	39 32	44.56	77 59	28.50
568+. P. P. 3-195 , Center line of Highway 9 at dirt rd. SW.	1359	39 32	57.73	77 59	25.13
572a. Intersection of main rds. in center of Hedgesville	2016	39 33	12.57	77 59	42.29
576a. Center line of rd. at very short dirt rd. NE.	1848	39 33	24.68	77 59	24.63
580. Hedgesville, 0.6 mi. NE. from main square, 51 ft. N. and 7 ft. E. of center line of rd. at driveway to house NW., and at same elevation, 24 ft. NW. of center line of rd., 5 ft. SW. of telephone pole, in concrete post; standard tablet stamped "T T 21 CWH 1947"	1415	39 33	33.16	77 59	10.27
583a. P. P. 3-195 A, junction NE.-SW. rd. and rd. NW.	1834	39 33	45.63	77 58	53.27
589a. Center line of rd. at driveway ESE.	1532	39 33	59.43	77 59	01.34
593+. Center line of rd. at fence line E.	1816	39 34	17.01	77 58	56.69
600+. P. P. 3-200 B, center line of rd. at long tangent of rd. NE.	1564	39 34	31.96	77 58	51.64
607+. Center line of rd. at rd. E. over R.R. track	1792	39 34	46.29	77 59	05.09

WILLIAMSPORT QUADRANGLE

WEST VIRGINIA-MARYLAND-
PENNSYLVANIA

Bks. A H45c (fld.)

" A H46a (cmp.)

By C. W. Haas, 1947

4/2/48 msf

(Cont'd. p. 3)

1927 N.A.P.

610. Hedgesville, 2.6 mi. N. of, 1.0 mi. NE. of main square to rd., junction, thence 1.6 mi. NW., 29 ft. N. of mail box, 20 ft. SW. of house, 11 ft. NE. of center line of rd., 2 ft. SW. of tile block retaining wall, in concrete post; standard tablet stamped "T T 22 CWH 1947" *Destroyed 1951 J.A. Kalwarsh*
- | | | | |
|---|------|-------------|-------------|
| 613+. Center line of rd. | 1001 | 39 34 54.06 | 77 59 13.00 |
| at rd. S. | 1071 | 39 34 54.57 | 77 59 26.67 |
| 618a. Center line of rd. at woods trail SE. | 1606 | 39 35 09.70 | 77 59 32.86 |
| 627+. P. P. 3-200 A, intersection of rd. and R.R. crossing | 1718 | 39 35 25.82 | 77 59 25.94 |
| 674. Hancock, Washington Co., about 12.4 mi. SE. along Western Maryland Ry. from sta., about 18 rails NW. of milepost 103, at rd. crossing, 67 ft. NW. of center line of rd., 26 ft. SW. of SW. rail of east-bound track, 4 ft. S. of pole, in concrete post; U.S.C. & G.S. standard disk stamped "N 42 1941" | 5556 | 39 36 19.77 | 77 59 39.14 |
| 675a. P. P. 4-61 C, intersection of rd. and R.R. right-of-way between two main tracks | 71 | 39 36 20.02 | 77 59 38.29 |
| 680+. Intersection of crossroads | 2225 | 39 36 41.93 | 77 59 36.00 |
| 684a. P. P. 4-61 B, center line of Highway 56 at dirt rd. SSE. | 2452 | 39 37 06.01 | 77 59 39.45 |

WILLIMSPORT QUADRANGLE

WEST VIRGINIA-MARYLAND
PENNSYLVANIA

Bks. A H45c (fld.)

" A H46a (cmp.)

By C. W. Haas, 1947

4/2/48 msf

(Cont'd. p. 4)

1927 N.B.R

722+. Center line of rd. at
fence line E. (2349) 39 39 08.68 77 59 54.85

Bks. A H45d (fld.)

" A H46a (cmp.)

By C. W. Haas, 1947

722+. Center line of rd.
(described in line) 39 39 08.68 77 59 54.85

726a. Center line of rd. at
fence line W. 2237 39 39 30.63 77 59 51.46