

LEGEND

- Excavation or embankment slope
- Riprap except Sta. 89+00 to Sta. 90+40 on Genesee River which is precast concrete blocks.
- Fence
- Railroad
- Pole line, power or telephone
- ΔPI Point of Intersection of tangents
- CMP Corrugated Metal pipe
- Inv. E.L. Invert Elevation
- LB Left Bank
- M.H. Manhole
- PC Point of Curvature
- PP Power Pole
- PT Point of Tangency
- RB Right Bank
- TP Telephone Pole
- VTP Vitriified Tile Pipe

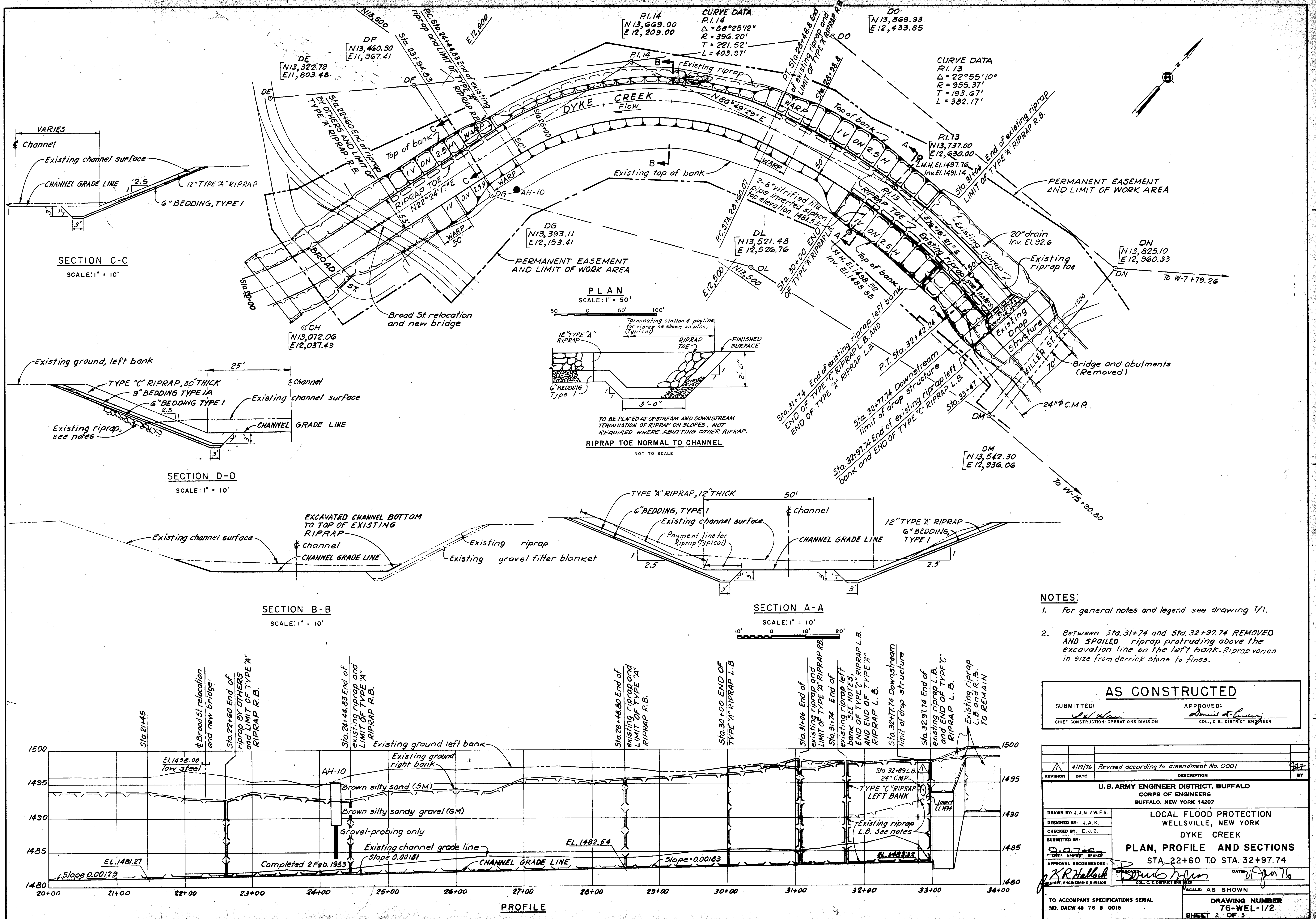
GENERAL NOTES:
 Elevations are in feet and tenths above mean sea level, United States Coast and Geodetic Survey Datum (Based on B.M. described in specification).

All stationing is along centerline of the channel, unless otherwise indicated.
 All sections are looking downstream, except as noted.
 Coordinates and curve data for new channel centerline are indicated on the drawings. Coordinates for survey traverse points are indicated on drawings.

Where channel grade is above the existing channel bottom, fill will not be required, unless otherwise specified.

INDEX OF DRAWINGS	
DWG. NO.	TITLE
76-WEL-	GENERAL
1/1	GENERAL PLAN AND INDEX
1/2	PLAN, PROFILE AND SECTIONS-STA.22+60 TO STA.32+97.74
1/3	PLAN AND PROFILE-STA.82+20 TO STA.103+00
1/4	SECTIONS AND DETAILS
1/5	HYDROGRAPHS AND BATING CURVES
89-WEL-	GENESEE RIVER
1/3	REFERENCE DRAWING-SUBSURFACE EXPLORATIONS
2/1	REFERENCE DRAWING-PLAN, PROFILE AND SECTIONS
2/2	REFERENCE DRAWING-PLAN, PROFILE AND SECTIONS

AS CONSTRUCTED	
SUBMITTED: <i>[Signature]</i> CHIEF, CONSTRUCTION-OPERATIONS DIVISION	APPROVED: <i>[Signature]</i> COL., C. E. DISTRICT ENGINEER
REVISION	DATE
1	4/19/76
REVISED ACCORDING TO AMENDMENT NO. 0002	
U.S. ARMY ENGINEER DISTRICT, BUFFALO CORPS OF ENGINEERS BUFFALO, NEW YORK 14207	
LOCAL FLOOD PROTECTION WELLSVILLE, NEW YORK GENERAL GENERAL PLAN AND INDEX	
DRAWN BY: W.F.S. DESIGNED BY: J.A.K. CHECKED BY: E.J.G. SUBMITTED BY: <i>[Signature]</i> APPROVAL RECOMMENDED: <i>[Signature]</i> CHIEF, ENGINEERING DIVISION	
TO ACCOMPANY SPECIFICATIONS SERIAL NO. DACW 49 78 B 0015	
DRAWING NUMBER 76-WEL-1/1 SHEET 1 OF 5	



NOTES:

1. Channel bottom and side slopes from Sta. 94+00 to the existing weir at Sta. 102+87.25 were constructed to the lines and grades shown. Localized erosion and shoaling which had occurred in this area was restored in accordance with the specifications.

2. Existing contours and topography shown reflect August 1974 conditions which have been subject to change due to continuing erosion and shoaling.

3. For existing conditions of 24" C.M.R., see reference drawing 189-WEL-2/1.

4. For boring locations and boring logs, see reference drawings 189-WEL-2/1 and 1/3. Borings not shown on Dwg. 2/1 are located outside the work area.

5. For profile of existing dike at Sta. 102+87.25, see reference drawing 189-WEL-2/2.

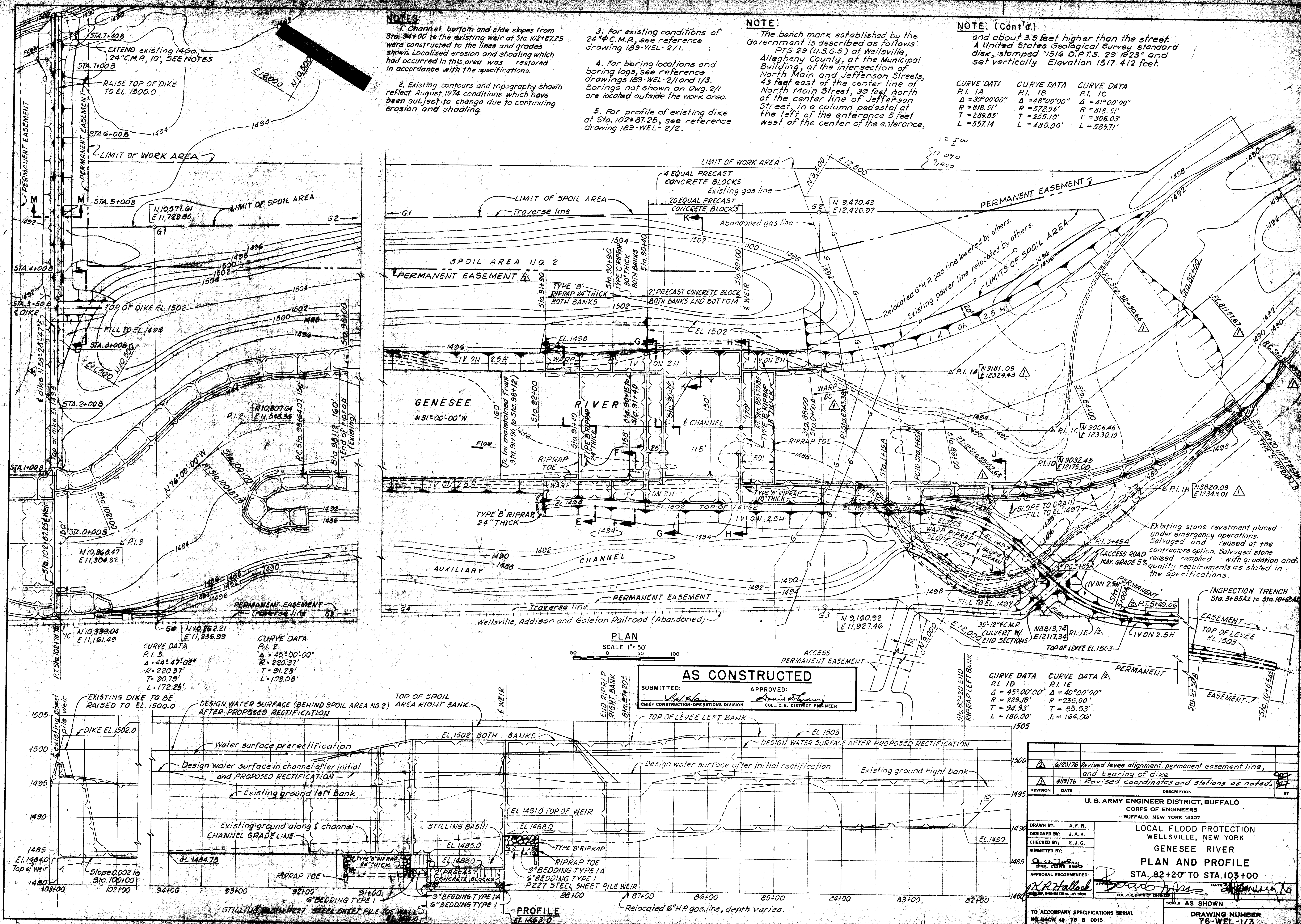
NOTE:

The bench mark established by the Government is described as follows: PTS 29 (U.S.G.S.) at Wellsville, Allegheny County, at the Municipal Building, at the intersection of North Main and Jefferson Streets, 43 feet east of the center line of North Main Street, 39 feet north of the center line of Jefferson Street, in a column pedestal at the left of the entrance 5 feet west of the center of the entrance.

NOTE: (Cont'd.)

and about 3.5 feet higher than the street. A United States Geological Survey standard disk, stamped "1516 D.P.T.S. 29 1923" and set vertically. Elevation 1517.412 feet.

CURVE DATA	CURVE DATA	CURVE DATA
P.I. 1A	P.I. 1B	P.I. 1C
$\Delta = 39^{\circ}00'00''$	$\Delta = 48^{\circ}00'00''$	$\Delta = 41^{\circ}00'00''$
$R = 818.51'$	$R = 572.96'$	$R = 818.51'$
$T = 289.85'$	$T = 255.10'$	$T = 306.03'$
$L = 557.14'$	$L = 480.00'$	$L = 585.71'$



PLAN

SCALE 1" = 50'

AS CONSTRUCTED

SUBMITTED: *[Signature]* APPROVED: *[Signature]*
CHIEF CONSTRUCTION OPERATIONS DIVISION COL. C.E. DISTRICT ENGINEER

CURVE DATA	CURVE DATA
P.I. 1D	P.I. 1E
$\Delta = 45^{\circ}00'00''$	$\Delta = 40^{\circ}00'00''$
$R = 229.18'$	$R = 235.00'$
$T = 94.93'$	$T = 85.53'$
$L = 180.00'$	$L = 164.06'$

CURVE DATA	CURVE DATA
P.I. 2	P.I. 3
$\Delta = 45^{\circ}00'00''$	$\Delta = 44^{\circ}47'02''$
$R = 220.37'$	$R = 220.37'$
$T = 91.28'$	$T = 90.79'$
$L = 178.08'$	$L = 172.25'$

DESIGN WATER SURFACE (BEHIND SPOIL AREA NO. 2) AFTER PROPOSED RECTIFICATION

Water surface prerectification

Design water surface in channel after initial and proposed rectification

Existing ground left bank

Existing ground along E channel CHANNEL GRADE LINE

STILLING BASIN

EL 1484.75

STILLING BASIN 22' STEEL SHEET PILE WEIR

6" BEDDING TYPE I

6" BEDDING TYPE I

6" BEDDING TYPE I

TOP OF SPOIL AREA RIGHT BANK

EL 1502 BOTH BANKS

EL 1491.0 TOP OF WEIR

EL 1488.0

EL 1485.0

EL 1483.0

EL 1480.0

EL 1477.0

EL 1474.0

EL 1471.0

EL 1468.0

EL 1465.0

TOP OF LEVEE LEFT BANK

EL 1503

DESIGN WATER SURFACE AFTER PROPOSED RECTIFICATION

Existing ground right bank

EL 1490

EL 1485

EL 1480

EL 1475

EL 1470

EL 1465

EL 1460

EL 1455

EL 1450

EL 1445

EL 1440

EL 1435

EL 1430

EL 1425

EL 1420

EL 1415

EL 1410

EL 1405

EL 1400

EL 1395

EL 1390

EL 1385

EL 1380

EL 1375

EL 1370

EL 1365

EL 1360

EL 1355

EL 1350

EL 1345

EL 1340

EL 1335

EL 1330

EL 1325

EL 1320

EL 1315

EL 1310

EL 1305

EL 1300

EL 1295

EL 1290

EL 1285

EL 1280

EL 1275

EL 1270

EL 1265

EL 1260

EL 1255

EL 1250

EL 1245

EL 1240

EL 1235

EL 1230

EL 1225

EL 1220

EL 1215

EL 1210

EL 1205

EL 1200

EL 1195

EL 1190

EL 1185

EL 1180

EL 1175

EL 1170

EL 1165

EL 1160

EL 1155

EL 1150

EL 1145

EL 1140

EL 1135

EL 1130

EL 1125

EL 1120

EL 1115

EL 1110

EL 1105

EL 1100

EL 1095

EL 1090

EL 1085

EL 1080

EL 1075

EL 1070

EL 1065

EL 1060

EL 1055

EL 1050

EL 1045

EL 1040

EL 1035

EL 1030

EL 1025

EL 1020

EL 1015

EL 1010

EL 1005

EL 1000

EL 995

EL 990

EL 985

EL 980

EL 975

EL 970

EL 965

EL 960

EL 955

EL 950

EL 945

EL 940

EL 935

EL 930

EL 925

EL 920

EL 915

EL 910

EL 905

EL 900

EL 895

EL 890

EL 885

EL 880

EL 875

EL 870

EL 865

EL 860

EL 855

EL 850

EL 845

EL 840

EL 835

EL 830

EL 825

EL 820

EL 815

EL 810

EL 805

EL 800

EL 795

EL 790

EL 785

EL 780

EL 775

EL 770

EL 765

EL 760

EL 755

EL 750

EL 745

EL 740

EL 735

EL 730

EL 725

EL 720

EL 715

EL 710

EL 705

EL 700

EL 695

EL 690

EL 685

EL 680

EL 675

EL 670

EL 665

EL 660

EL 655

EL 650

EL 645

EL 640

EL 635

EL 630

EL 625

EL 620

EL 615

EL 610

EL 605

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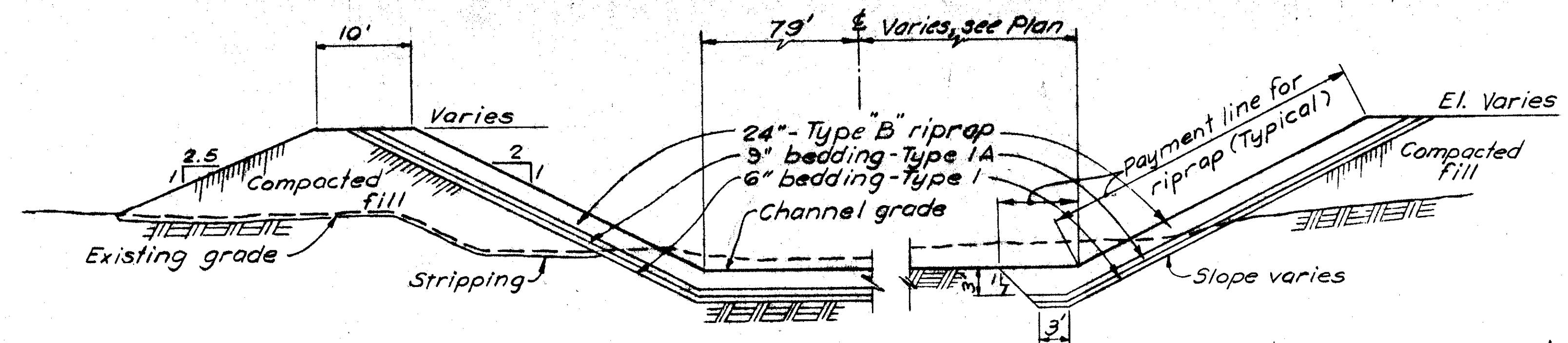
EL 505

EL 500

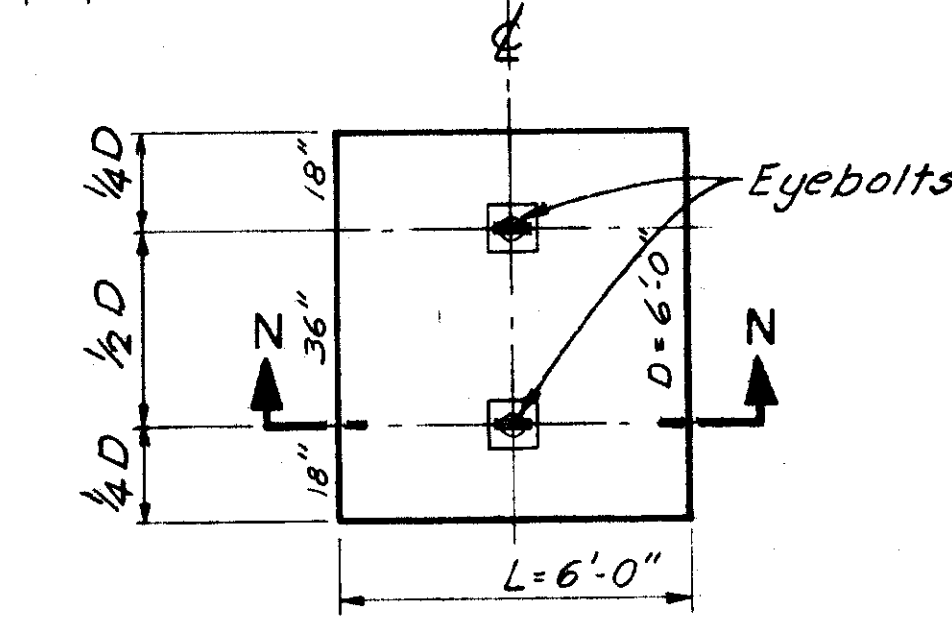
EL 495

EL 490

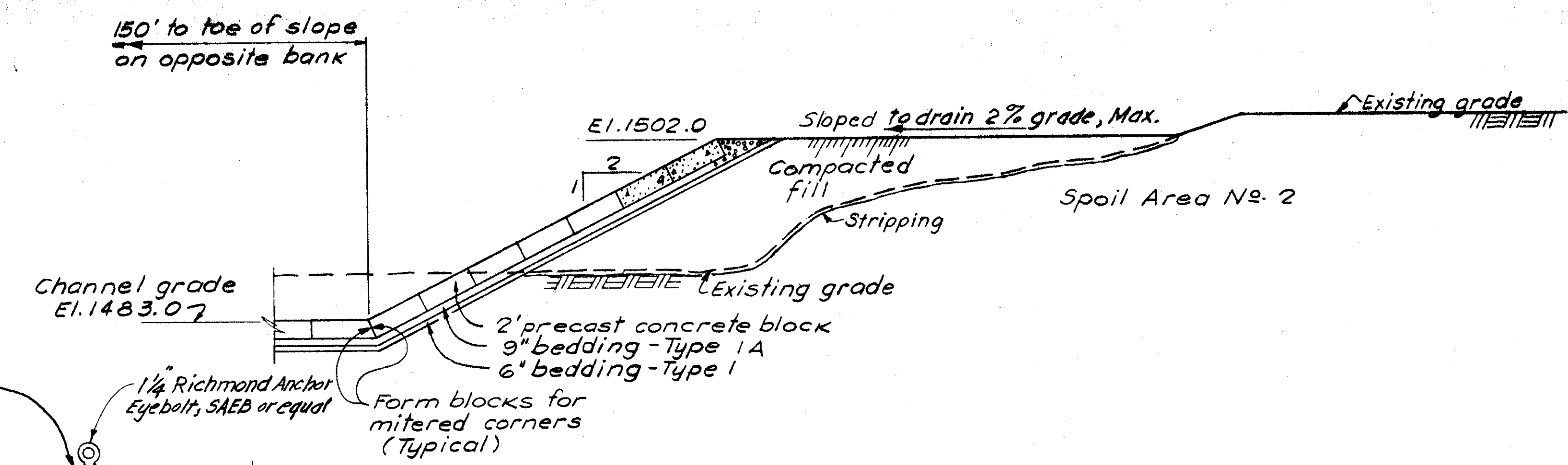
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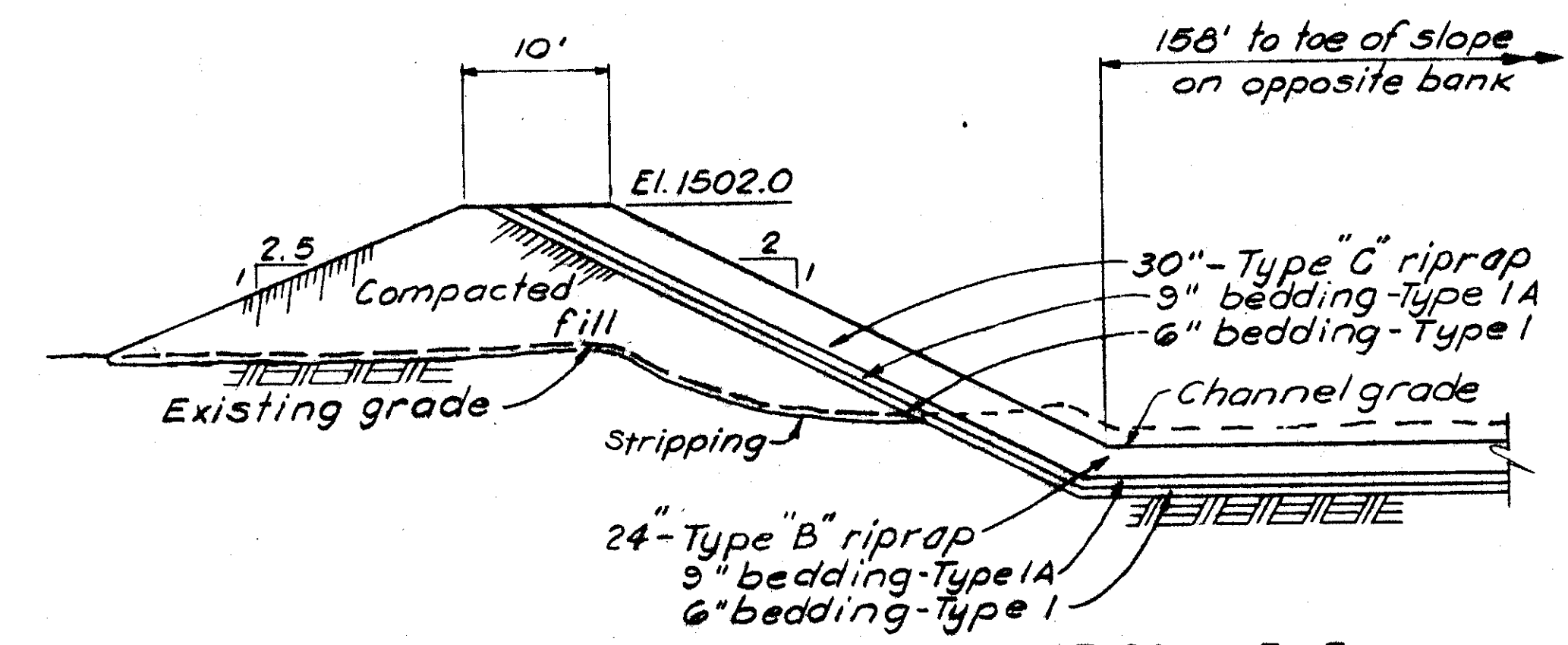
SECTION E-E
SCALE: 1"=10'



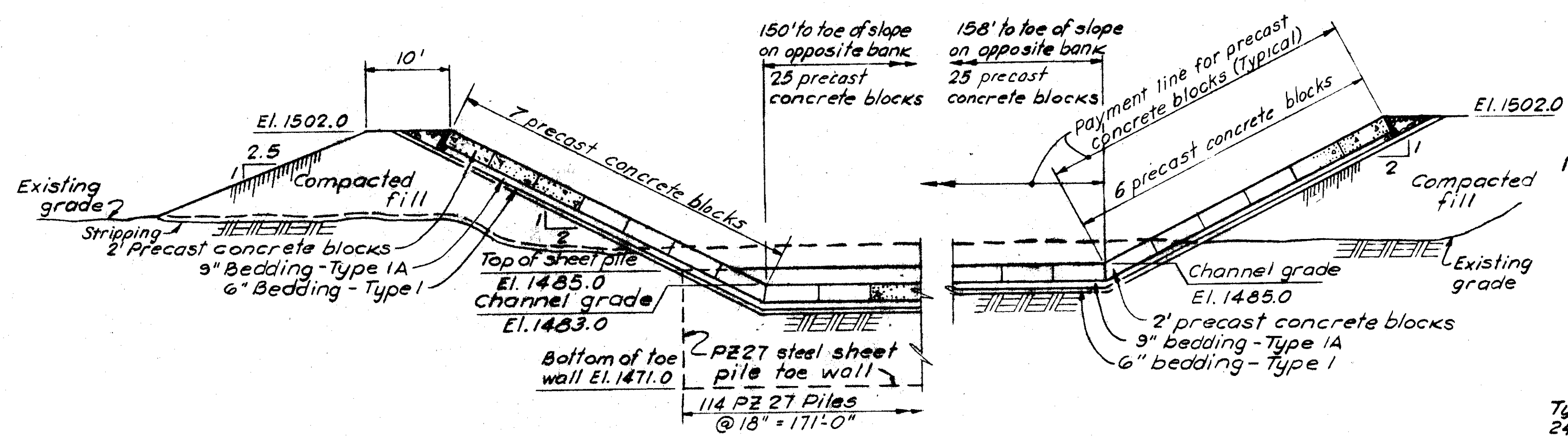
PLAN (TYPICAL)
PRECAST CONCRETE BLOCKS
NOT TO SCALE
(SEE NOTES)



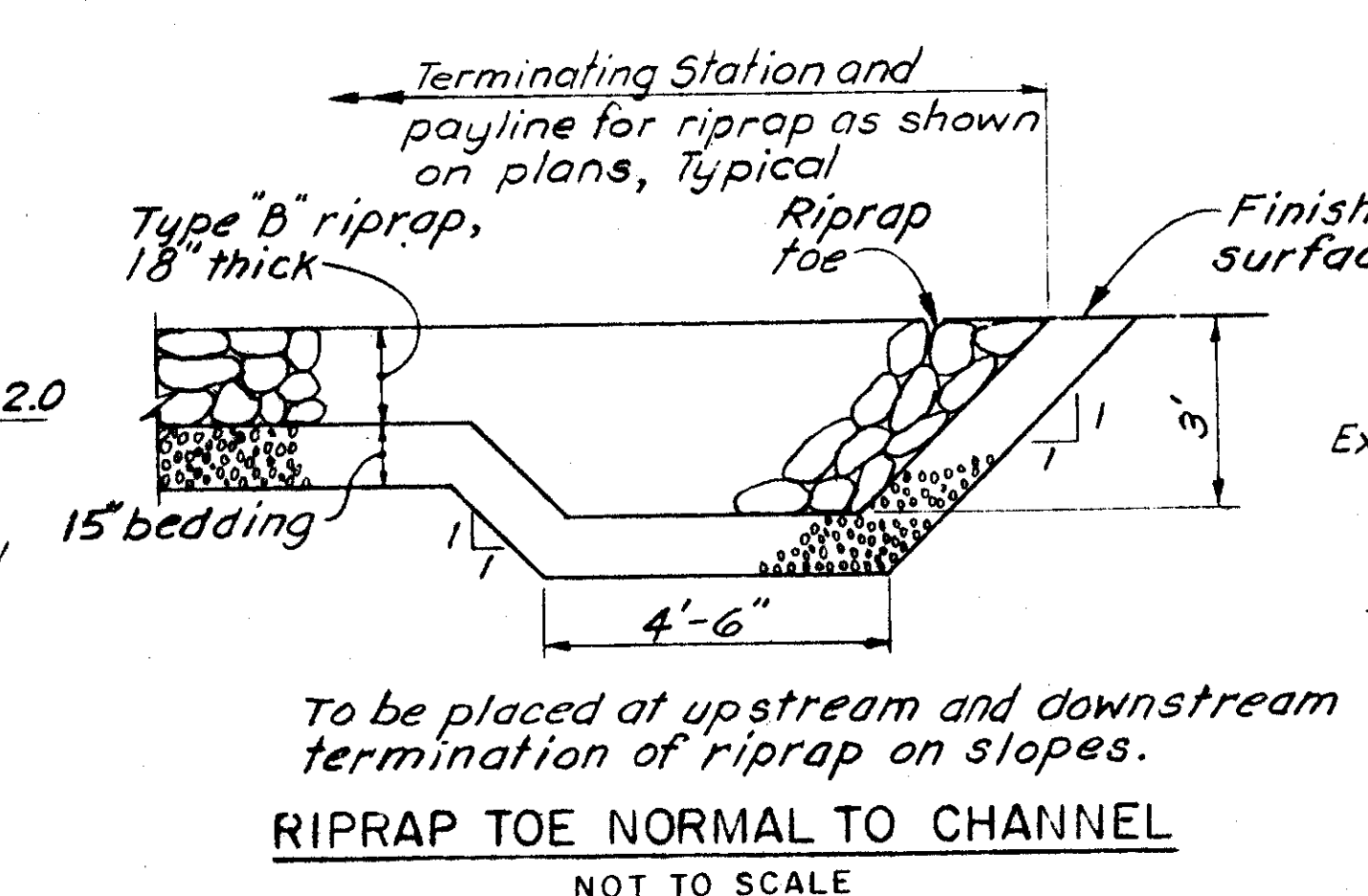
SECTION K-K
SCALE: 1"=10'



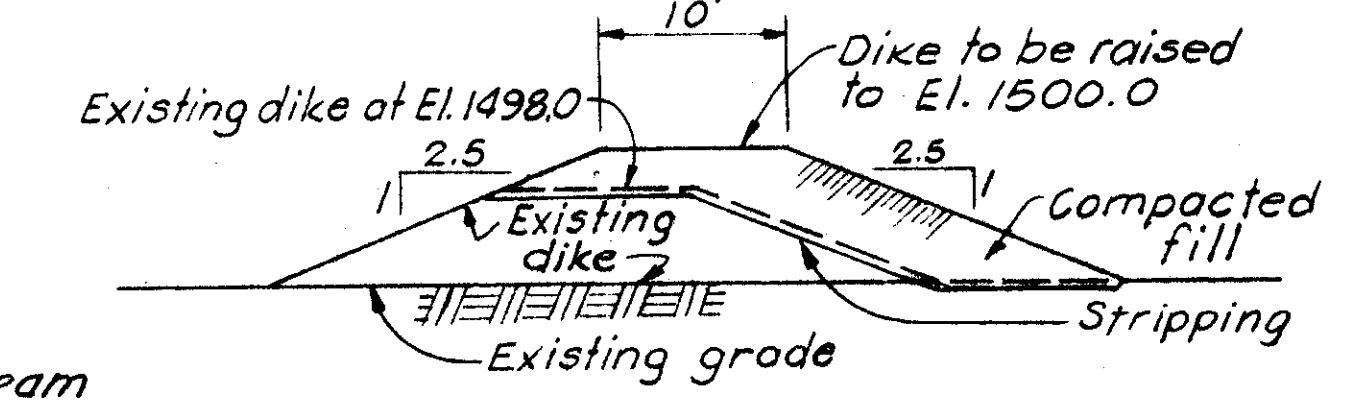
SECTION F-F
SCALE: 1"=10'



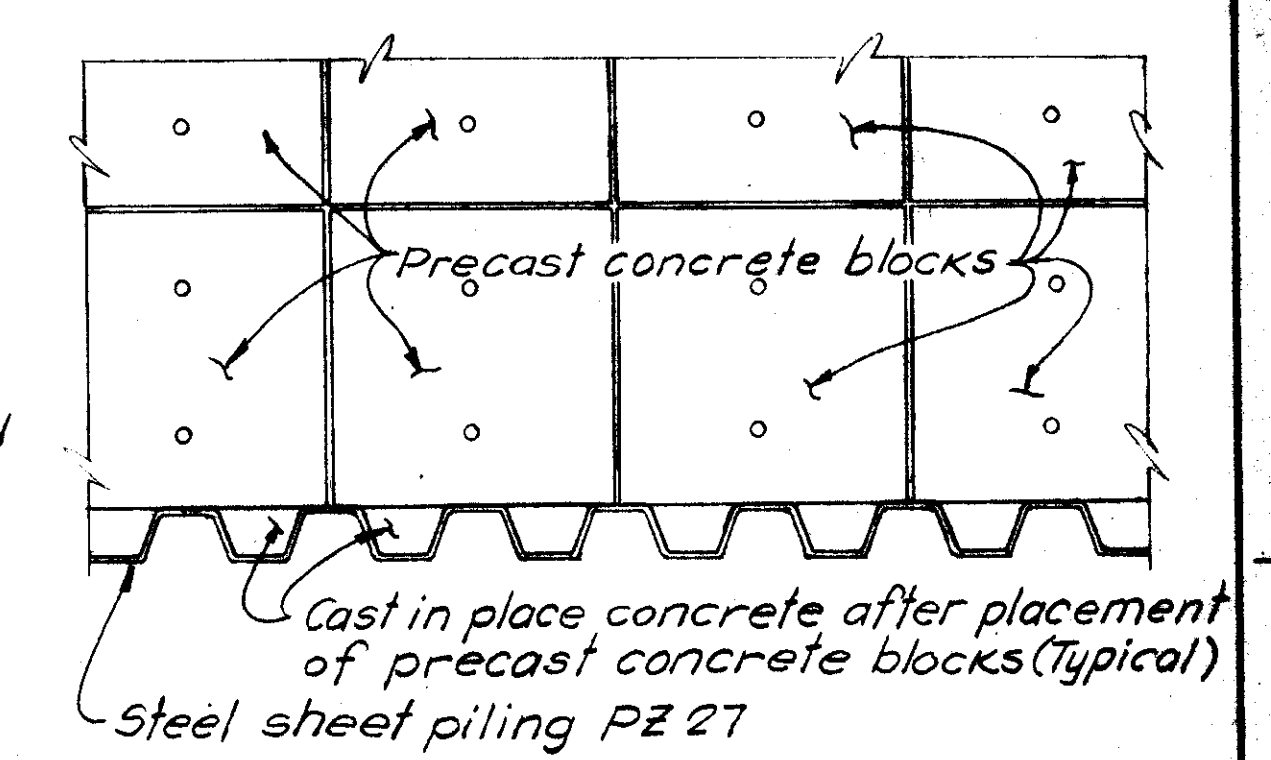
SECTION G-G
SCALE: 1"=10'



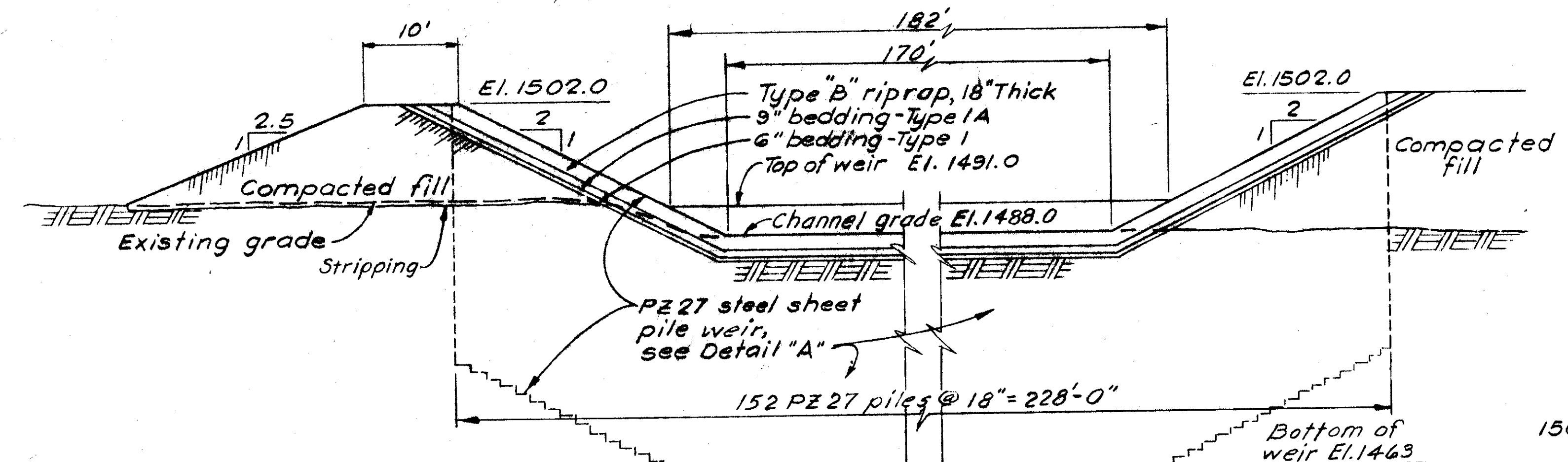
DETAIL "A"
NOT TO SCALE



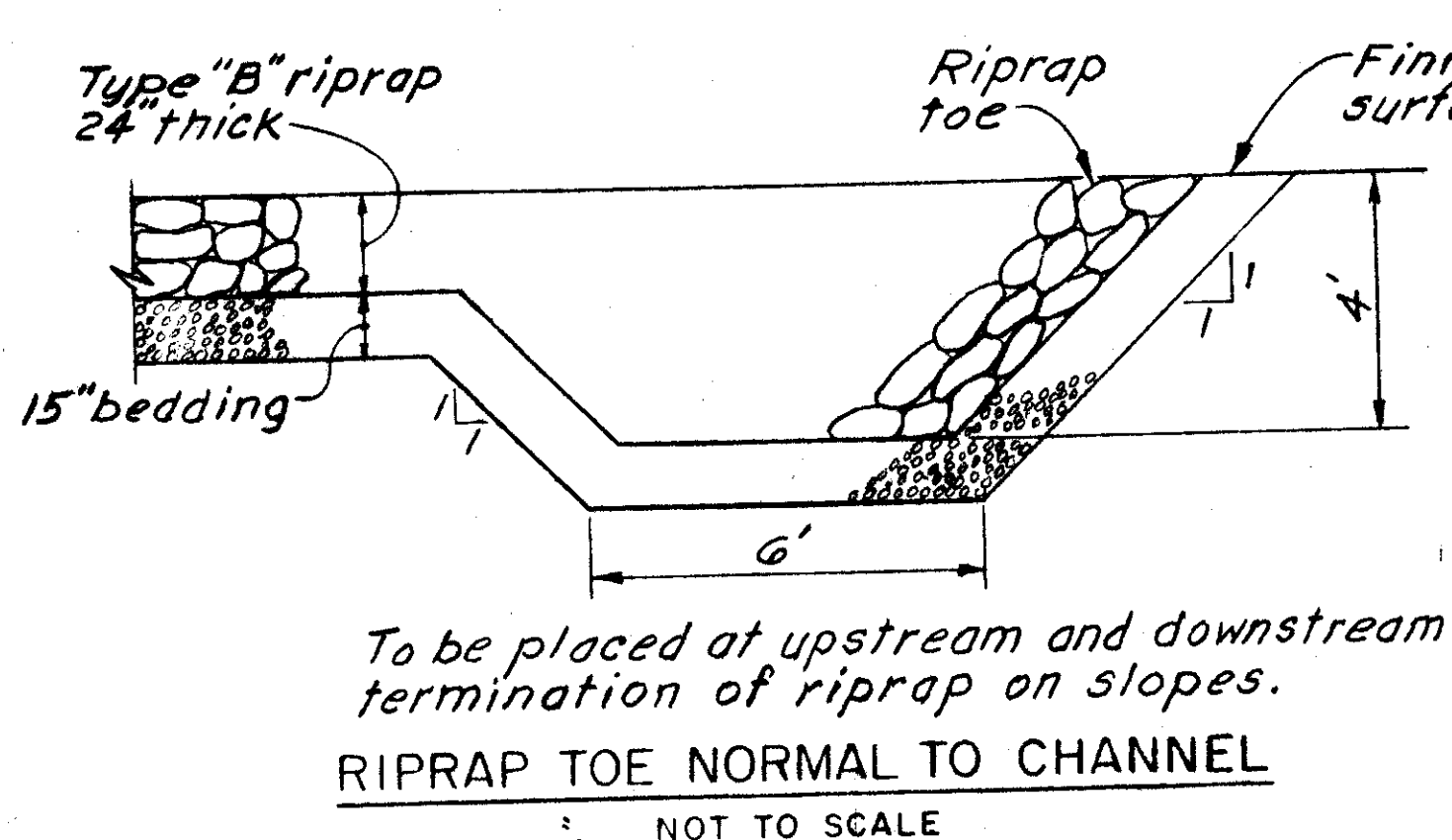
SECTION M-M
SCALE: 1"=10'



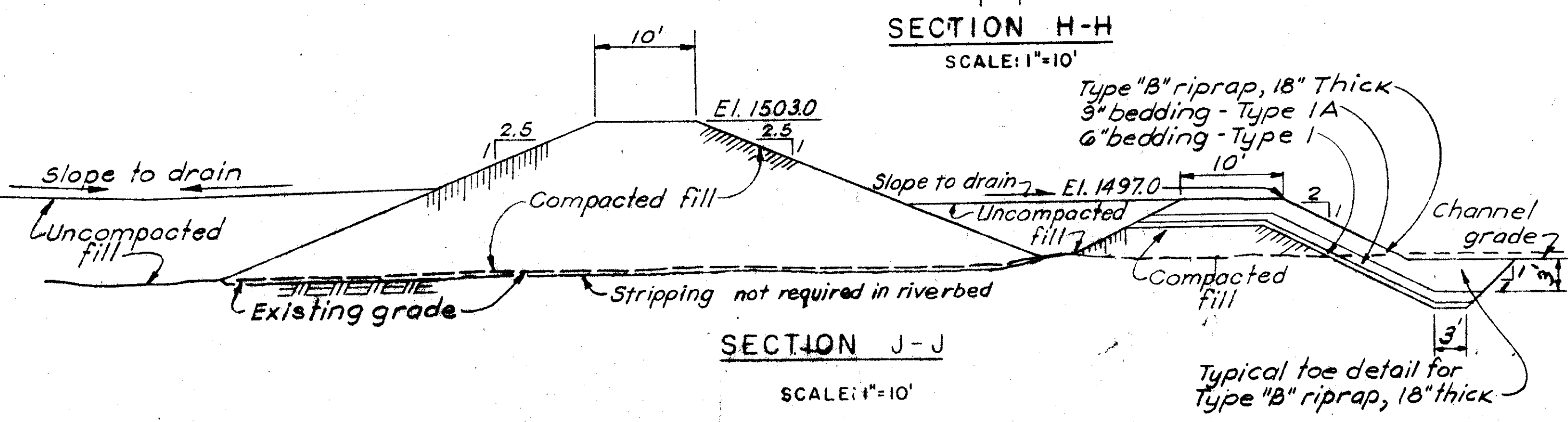
PLAN
PRECAST CONCRETE BLOCKS
ABUTTING STEEL SHEET PILE WALLS
NOT TO SCALE



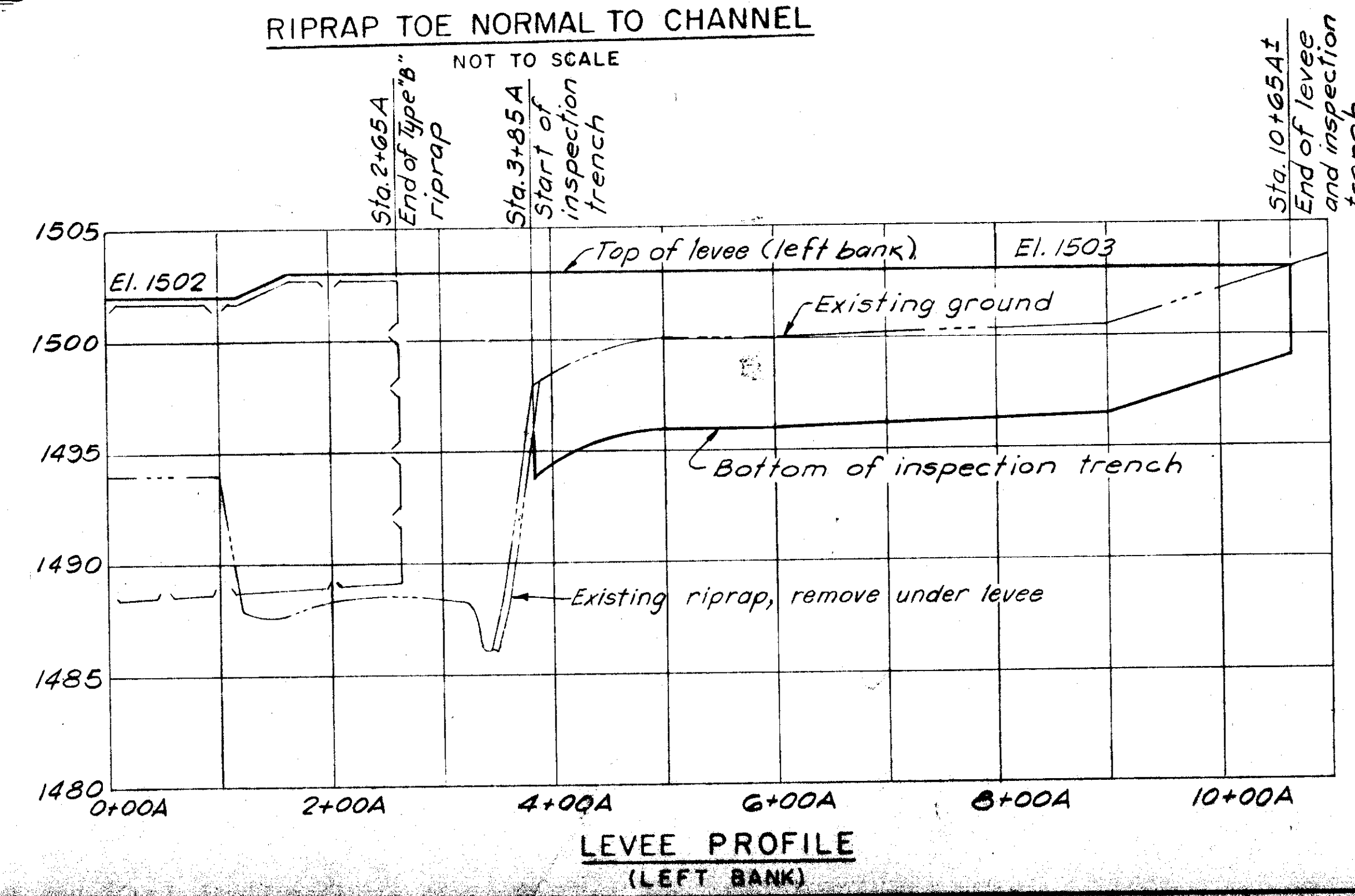
SECTION H-H
SCALE: 1"=10'



SECTION L-L
SCALE: 1"=10'

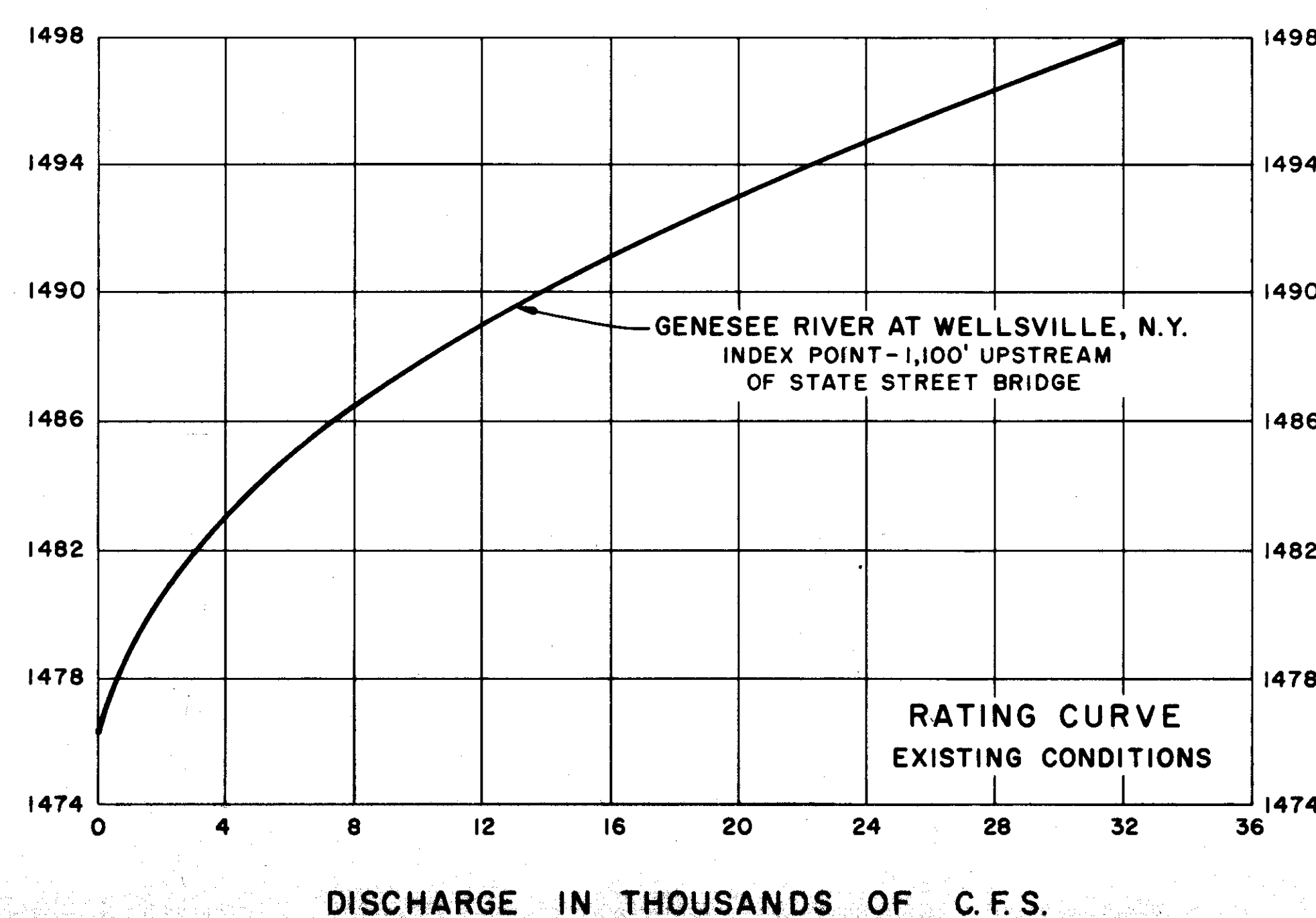
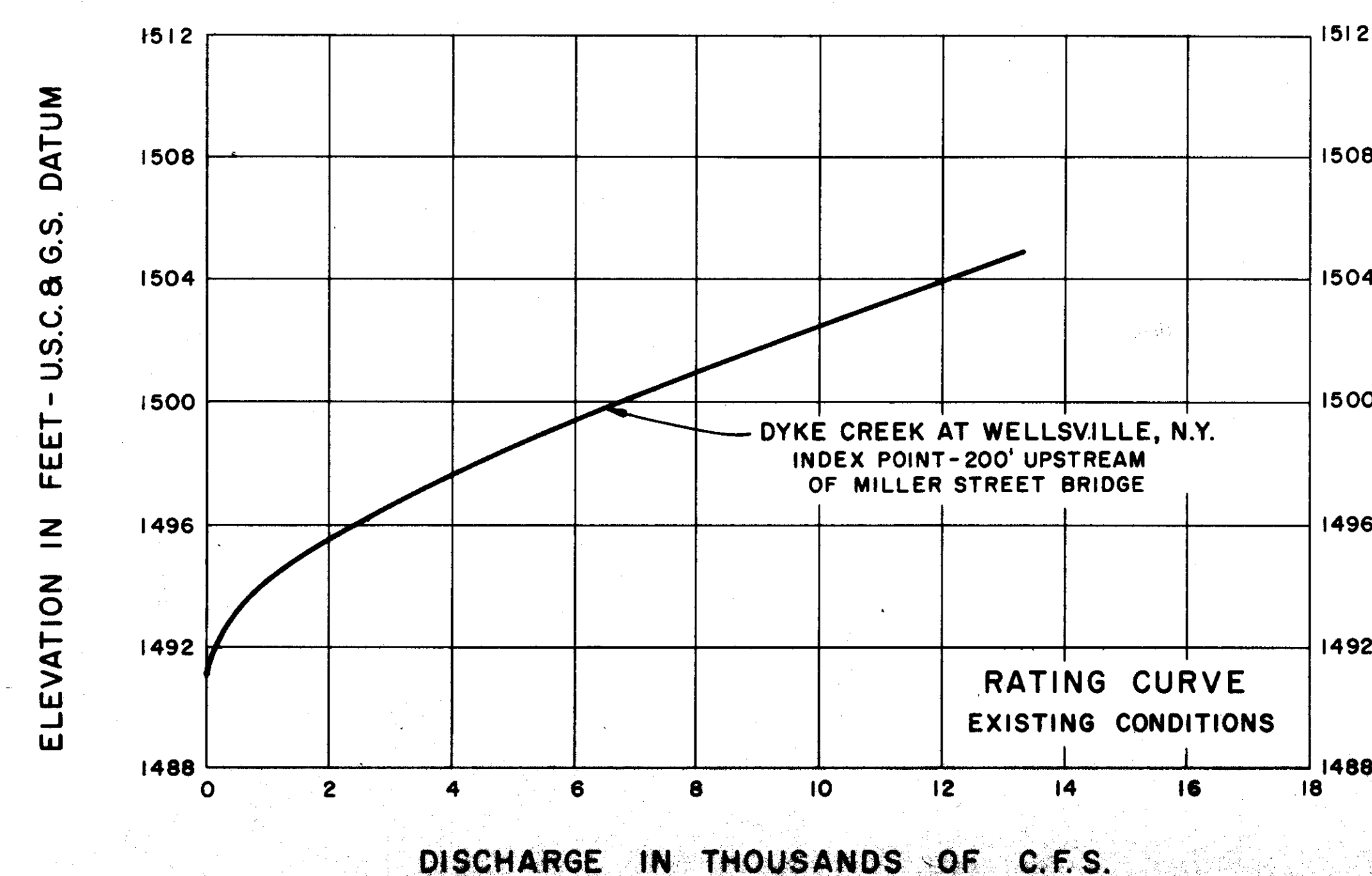
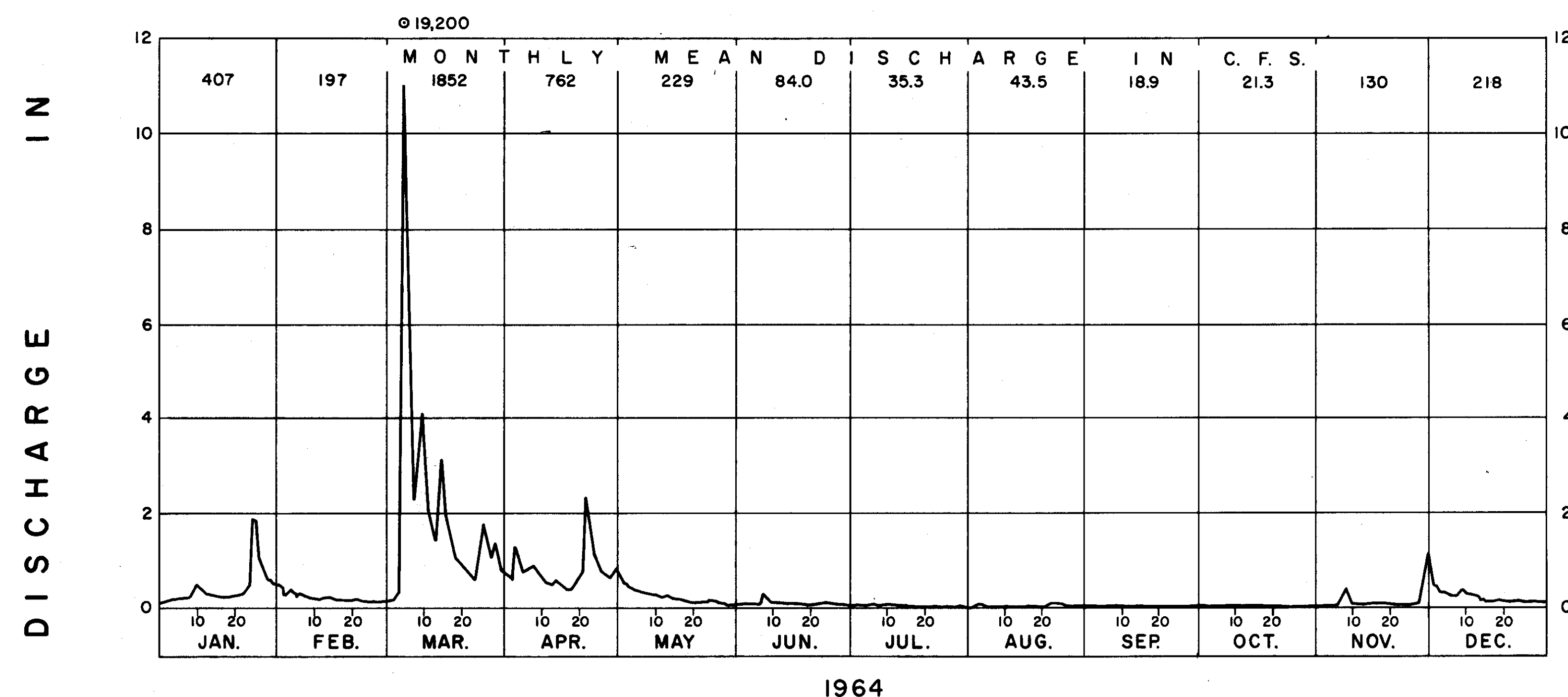
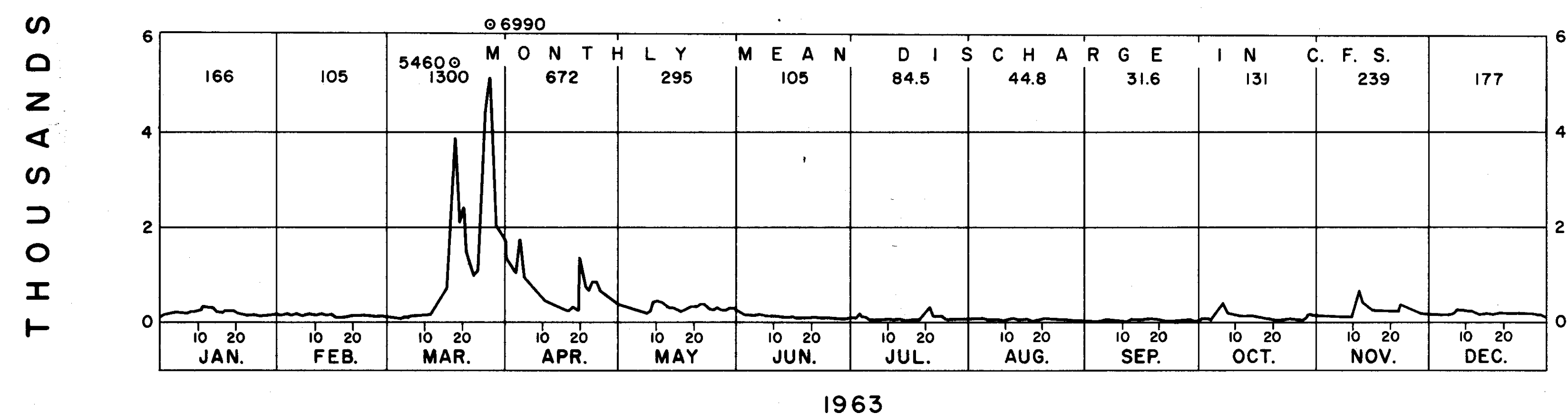
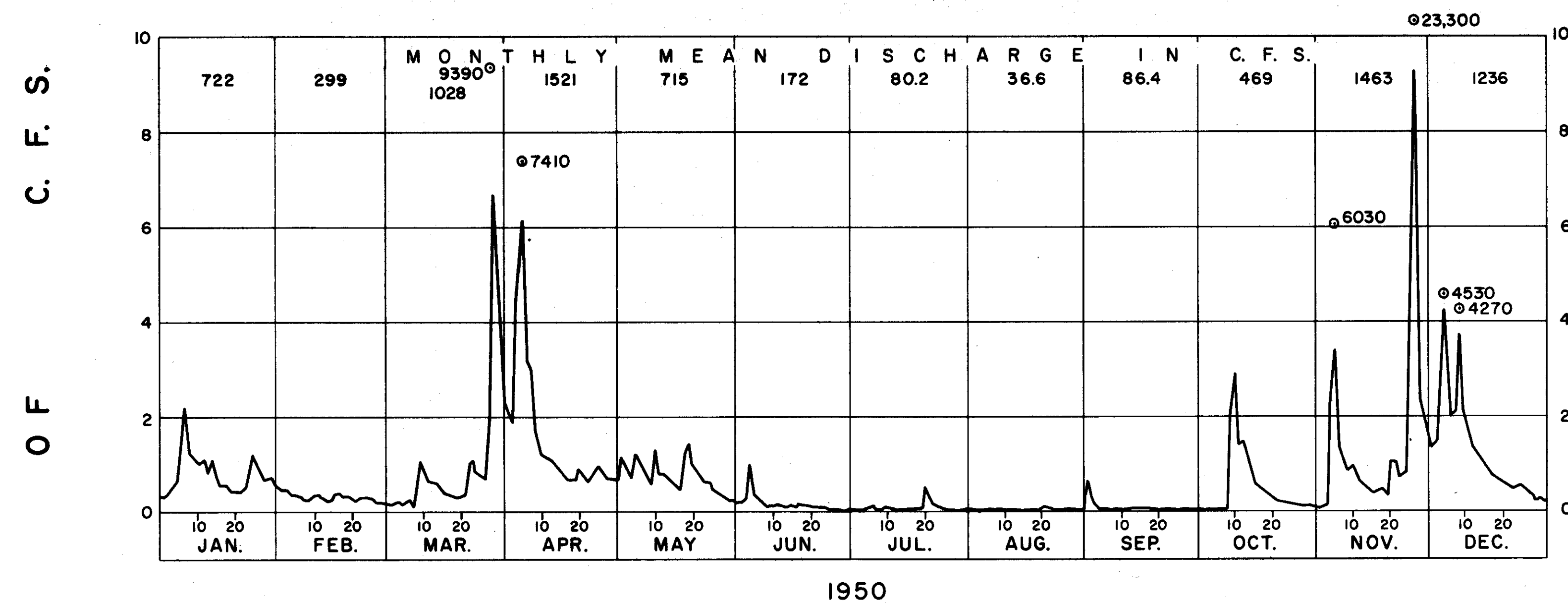


SECTION J-J
SCALE: 1"=10'



LEVEE PROFILE
(LEFT BANK)

AS CONSTRUCTED											
SUBMITTED:		APPROVED:									
CHIEF CONSTRUCTION-OPERATIONS DIVISION		COL. C. E. DISTRICT ENGINEER									
NOTES:											
1. Dimensions of the precast concrete blocks shall be determined by the contractor in accordance with the specifications.											
2. Concrete shall reach 1500 p.s.i. strength before precast concrete blocks are lifted. A plate shall be used under the eyebolt with the eyebolt screwed down tight for handling. Eyeballs and plates shall remain the property of the contractor.											
<table border="1"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISION	DATE	DESCRIPTION	BY				
REVISION	DATE	DESCRIPTION	BY								
U. S. ARMY ENGINEER DISTRICT, BUFFALO CORPS OF ENGINEERS BUFFALO, NEW YORK 14207											
LOCAL FLOOD PROTECTION WELLSVILLE, NEW YORK GENESEE RIVER SECTIONS AND DETAILS											
DRAWN BY: W. F. S. DESIGNED BY: V. M. CHECKED BY: E. J. G. SUBMITTED BY:		APPROVAL RECOMMENDED: CHIEF, ENGINEERING DIVISION									
TO ACCOMPANY SPECIFICATIONS SERIAL NO. DACW 49 76 B 0018		DRAWING NUMBER 76-WEL-1/4 SHEET 4 OF 5									



ELEVATION IN FEET - U.S.C. & G.S. DATUM

AS CONSTRUCTED

SUBMITTED: *[Signature]* APPROVED: *[Signature]*
CHIEF CONSTRUCTION-OPERATIONS DIVISION COL., C.E. DISTRICT ENGINEER

NOTES:

- DISCHARGE MEASURED AT GAGE LOCATED ON LEFT BANK 0.4 MILE UPSTREAM FROM VANDERMARK CREEK AND 0.75 MILE UPSTREAM FROM SCIO, ALLEGANY COUNTY, NEW YORK.
- DRAINAGE AREAS:
1. GENESEE RIVER AT SCIO EQUALS 309 SQ. MILES.
 2. GENESEE RIVER AT WELLSVILLE EQUALS 288 SQ. MILES.
 3. GENESEE RIVER ABOVE CONFLUENCE OF DYKE CREEK EQUALS 216 SQ. MILES.
 4. DYKE CREEK AT CONFLUENCE WITH GENESEE RIVER EQUALS 72 SQ. MILES.

LEGEND:

23,300---INSTANTANEOUS MAXIMUM DISCHARGE IN C.F.S.
C.F.S.---CUBIC FEET PER SECOND

REVISION	DATE	DESCRIPTION	BY

U.S. ARMY ENGINEER DISTRICT, BUFFALO
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207

DRAWN BY: *J. J. N.*
DESIGNED BY:
CHECKED BY:
SUBMITTED BY:
APPROVAL RECOMMENDED: *[Signature]*
TO ACCOMPANY SPECIFICATIONS SERIAL NO. DACW 49 76 8 0015

LOCAL FLOOD PROTECTION
WELLSVILLE, NEW YORK
GENESEE RIVER
HYDROGRAPHS AND RATING CURVES
DATE: *21 Jan 76*
DRAWING NUMBER
76-WEL-1/5
SHEET 5 OF 5