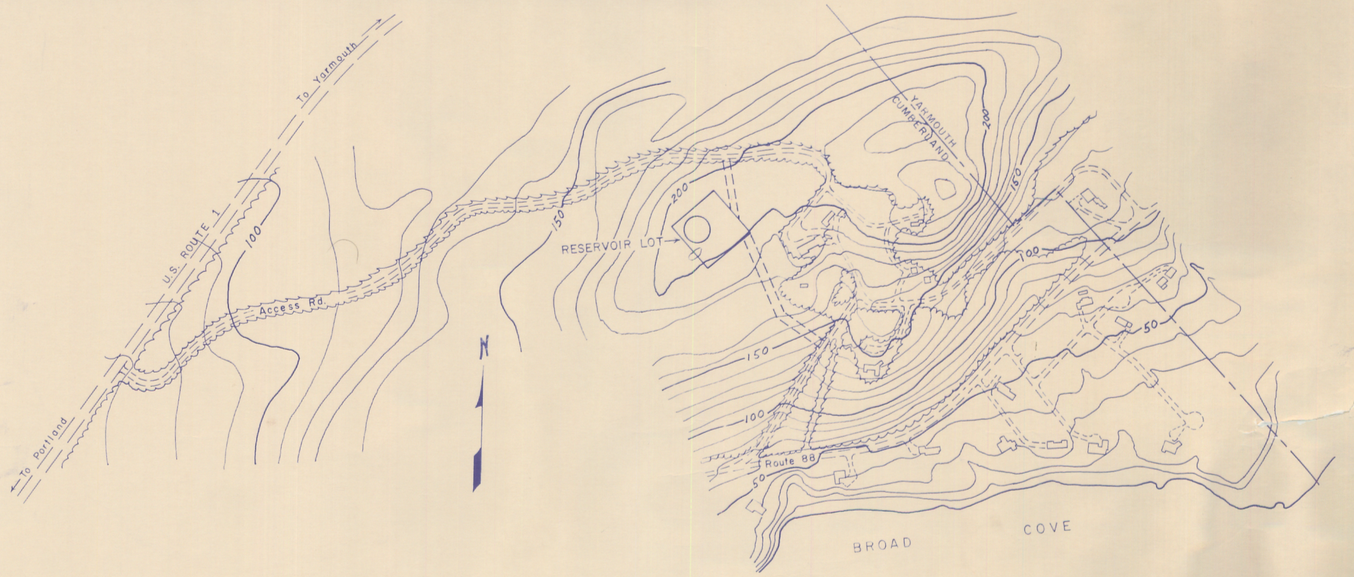
PORTLAND WATER DISTRICT — PORTLAND, MAINE

CUMBERLAND FORESIDE RESERVOIR

CONTRACT DRAWINGS

GENERAL LOCATION MAP



PROJECT AREA

INDEX

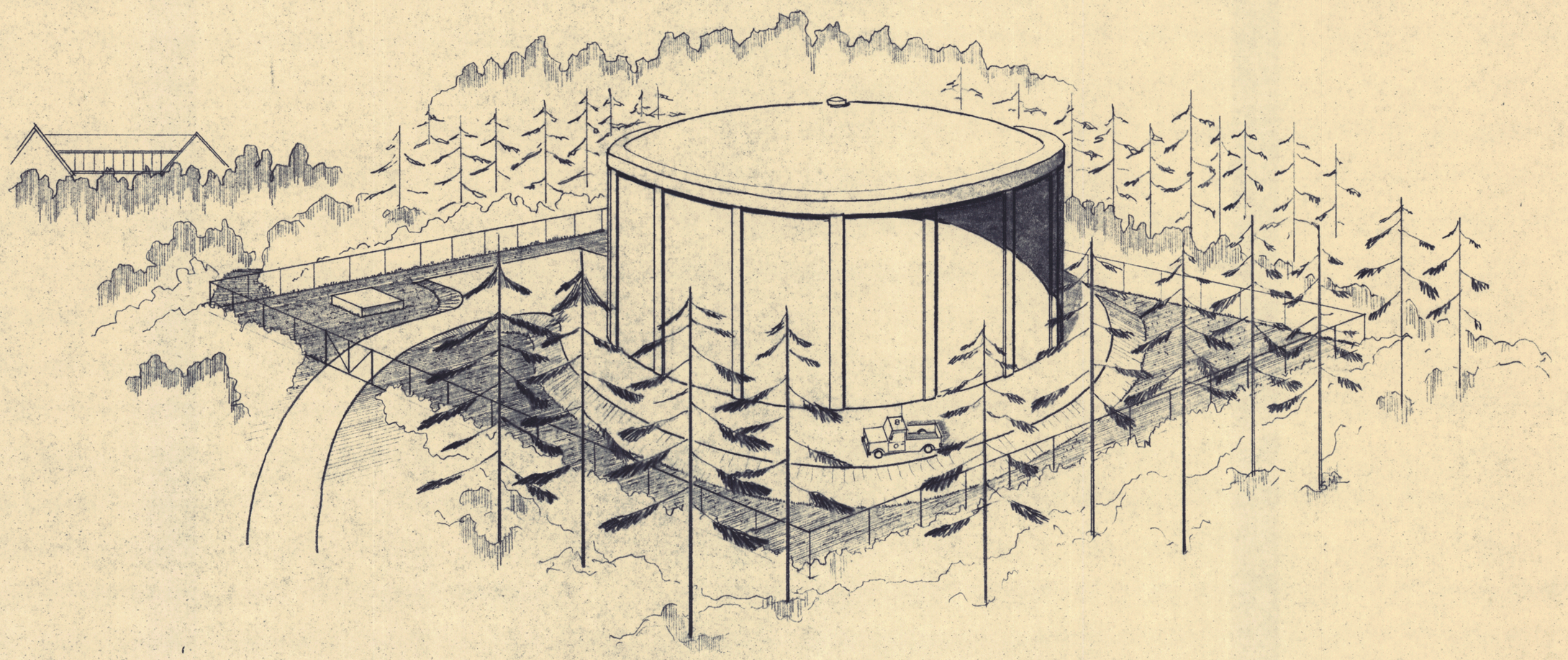
SHEET NO.

1. COVER / INDEX
2. SITE PLAN
3. RESERVOIR PLAN / DETAILS
4. RESERVOIR DETAILS
5. ACCESS ROAD PROFILE
6. ACCESS ROAD CROSS SECTIONS
7. RESERVOIR SITE CROSS SECTIONS
8. RESERVOIR SITE CROSS SECTIONS

Joseph B. Taylor
GENERAL MANAGER

STATE OF MAINE
JAY CLARK HEWETT
3089
REGISTERED PROFESSIONAL ENGINEER

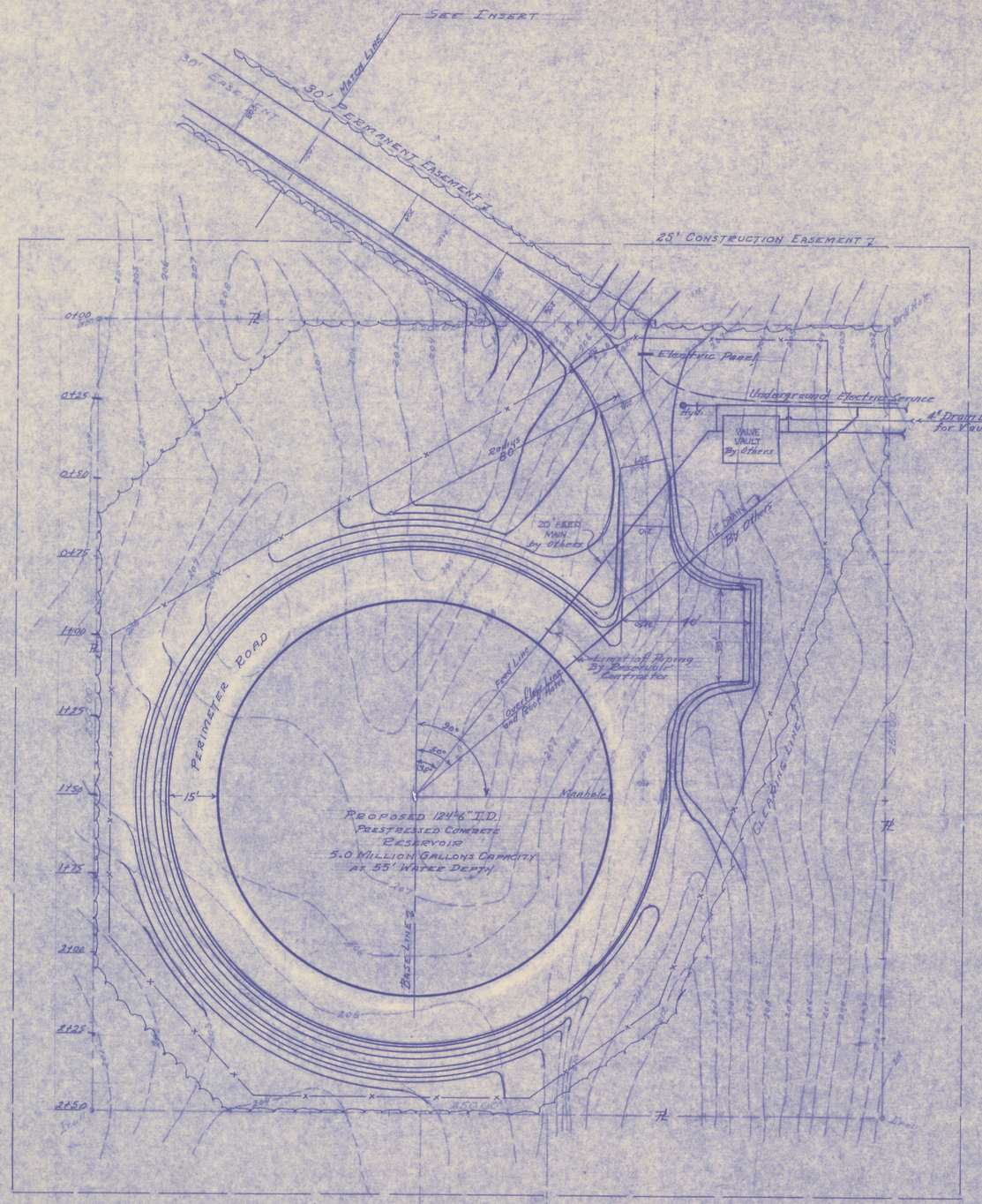
Jay Clark Hewett
CHIEF ENGINEER



PORTLAND WATER DISTRICT

CUMBERLAND FORESIDE RESEVOIR

JULY 3, 1979



6-14-79	Contours Added	K.Moss
6-28-79	General Revisions	K.
8-24-79	Drain Line Relocated	K.
10-25-79	Electric & Hydrant	K.
11-2-79	Vault Drain Line Added	

STATUS

Cumberland Foreside Reservoir

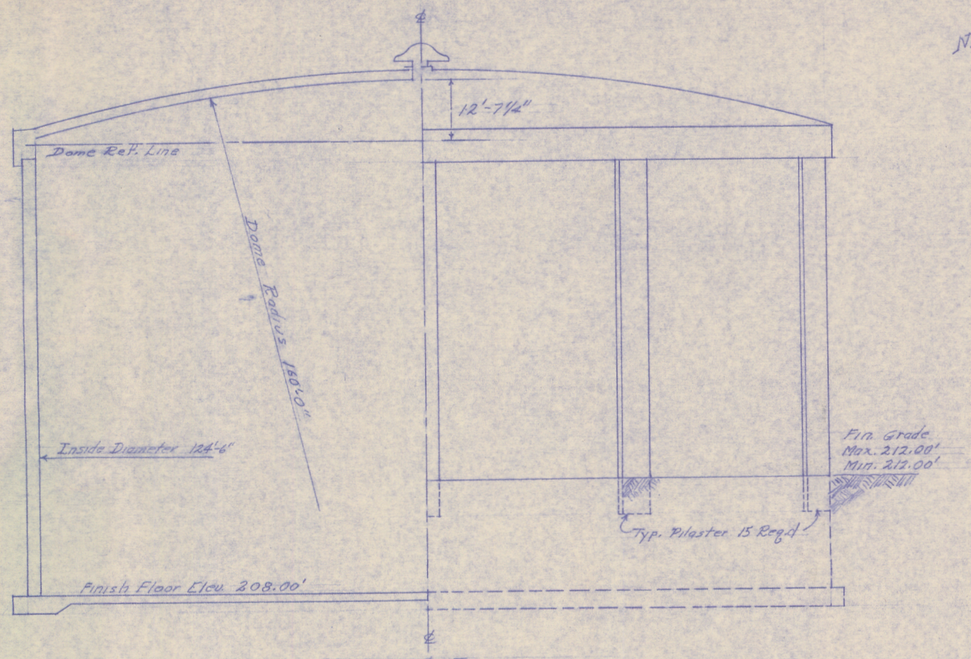
Site Plan

Portland Water District
225 Douglass Street
Portland, Maine, 04104

DESIGN J. Hewett CHECK
DRAWN K. Moss APPROVED
FIELD BOOK SCALE 1"=40' DATE

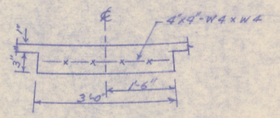
2 OF 8

10 of 13



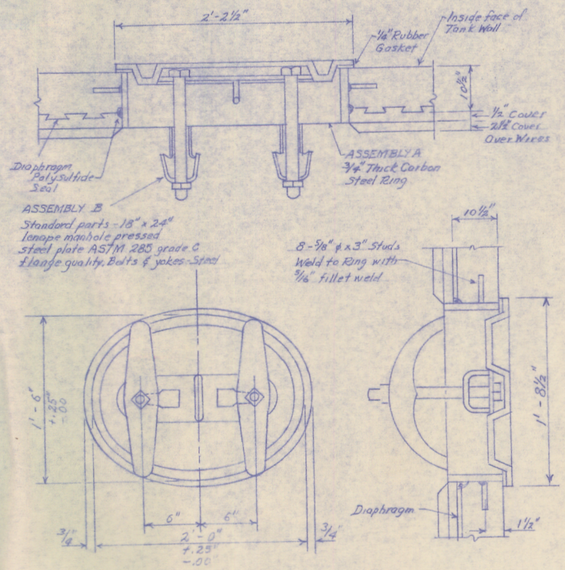
TANK SECTION & ELEVATION

NOT TO SCALE

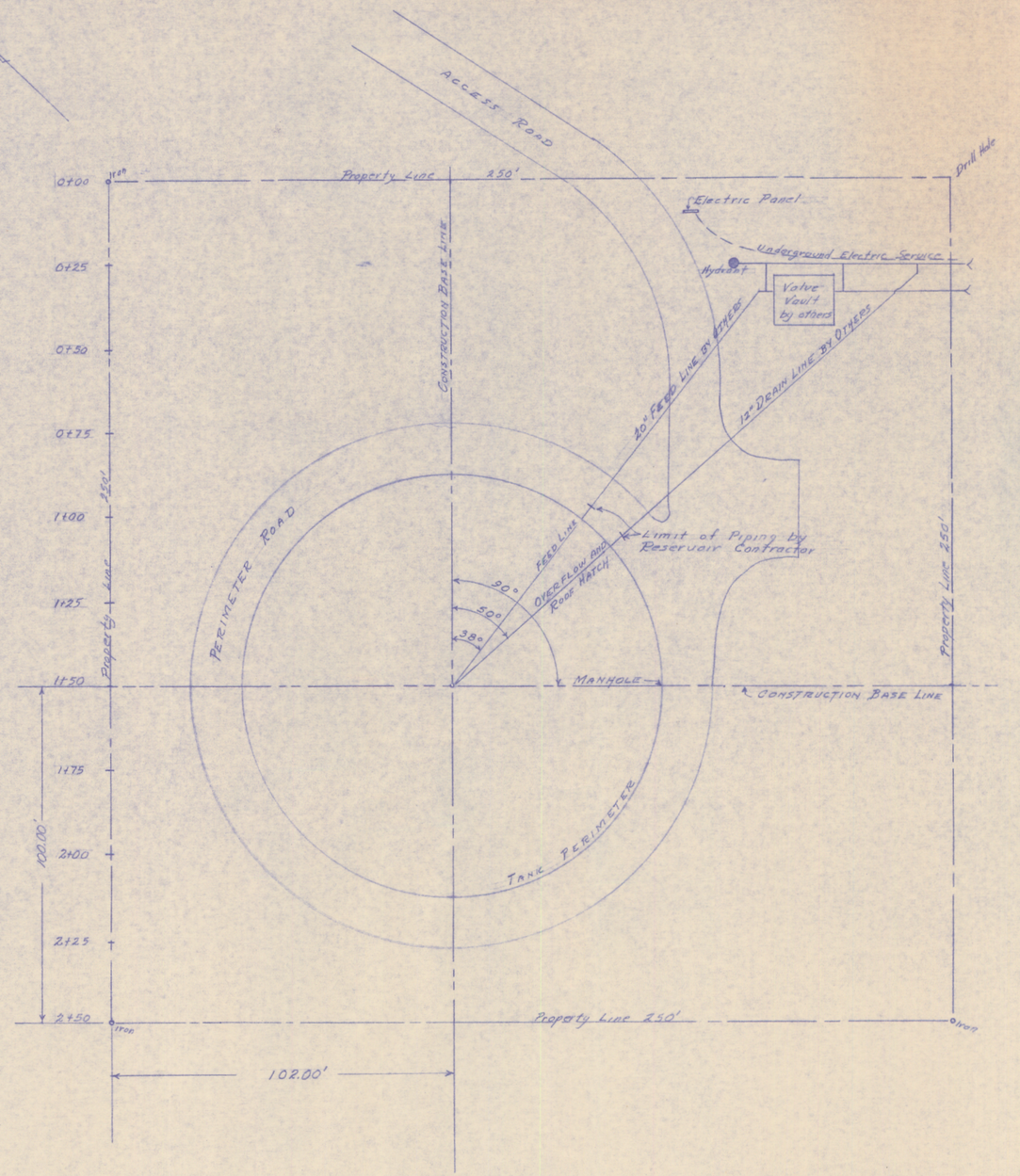


PILASTER DETAIL

NOT TO SCALE



WALL MANHOLE



SITE PLAN

SCALE 1"-20'

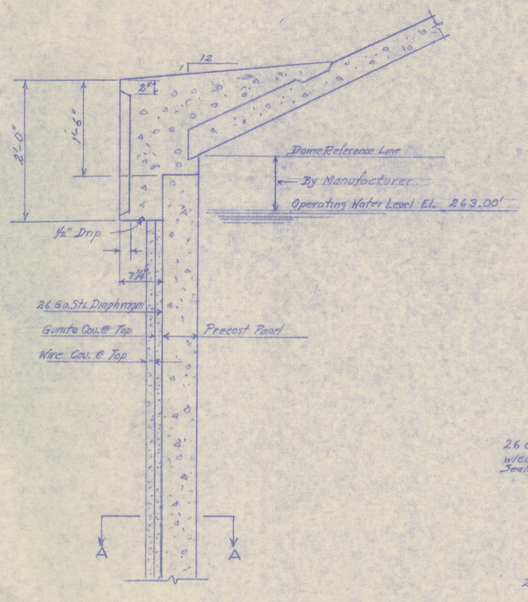
CUMBERLAND FORESIDE RESERVOIR

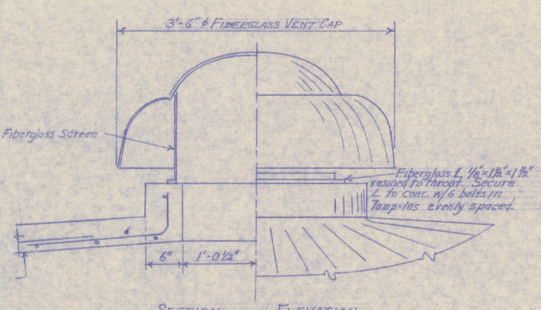
RESERVOIR PLAN / DETAILS

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

DESIGN J.C.H.		CHECK J.C.H.	
DRAWN T.E.F.		APPROVED J.H.	
FIELD BOOK	SCALE	DATE	3 OF 8

STATUS

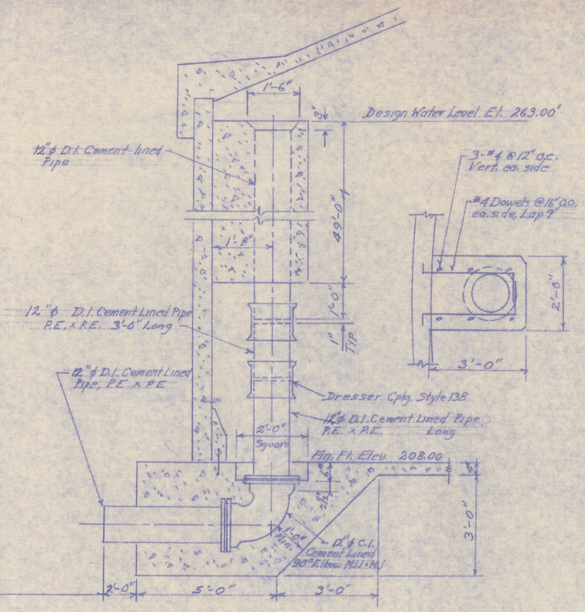




SECTION ELEVATION

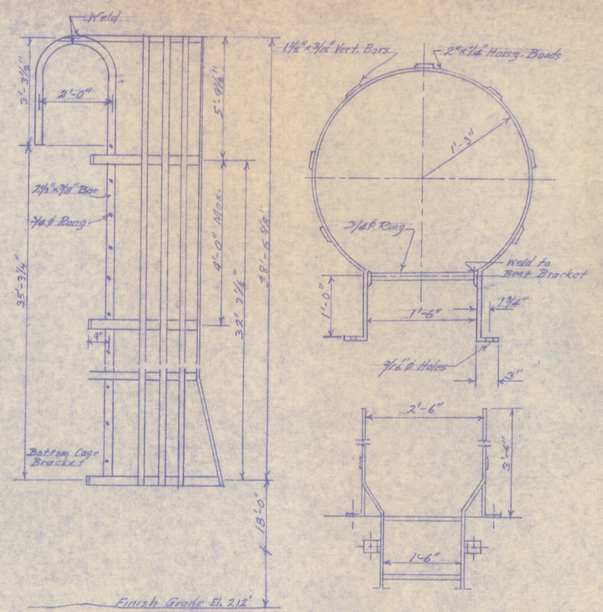
DOME VENT

NOT TO SCALE



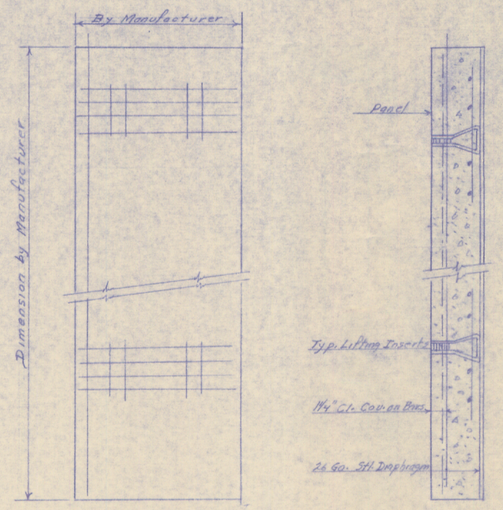
OVERFLOW

NOT TO SCALE



LADDER DETAIL WITH CAGE

NOT TO SCALE



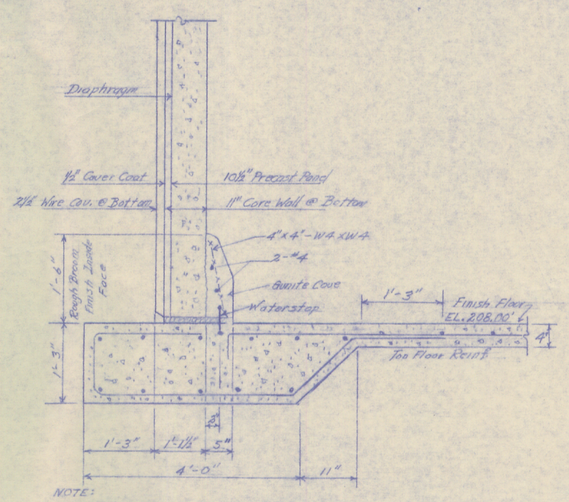
REINFORCING SECTION

WALL PANEL

NOT TO SCALE

SECTION A-A

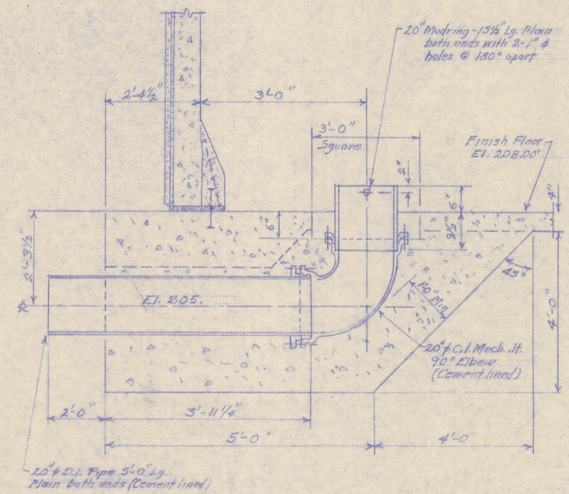
NOT TO SCALE



NOTE:
2-9"x1"x25" Lg 40 Durometer Rubber Pads @ each Wall Panel,
9" Continuous Waterstop, with 1"x3" Cont. Sponge Filler Pads inside Waterstop,
1"x2" Continuous Sponge Filler Pads outside Waterstop,
12"x1"x13" Sponge Filler Pad between Rubber Pads @ Wall Slot Joint
Wall Thickness & Reinforcing Steel Size & Spacing by Contractor

TYPICAL WALL SECTION

NOT TO SCALE



INLET - OUTLET

NOT TO SCALE

CUMBERLAND FORESIDE RESERVOIR

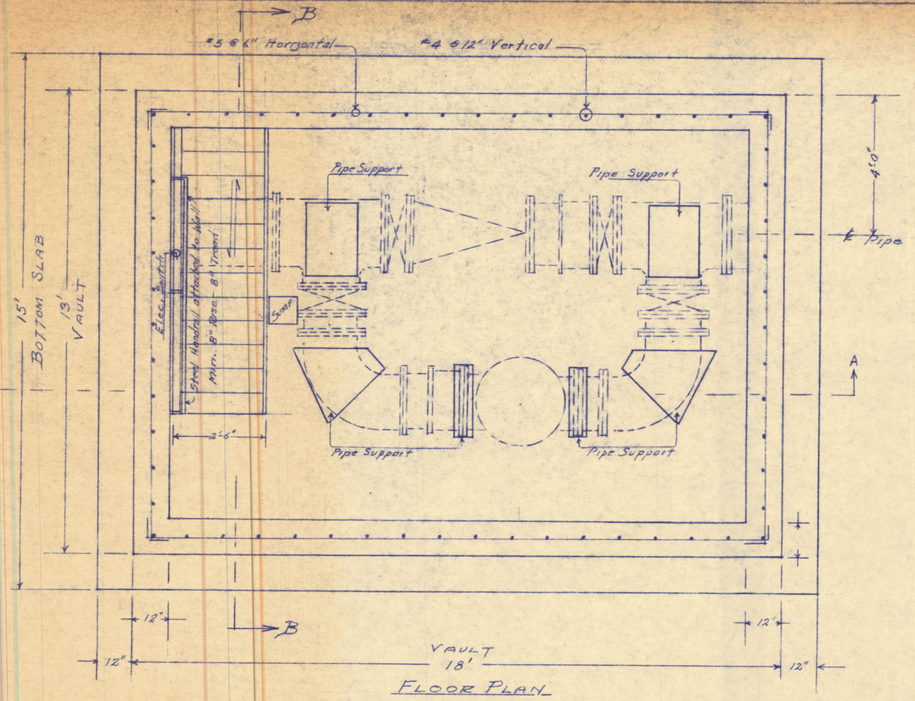
RESERVOIR DETAILS

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

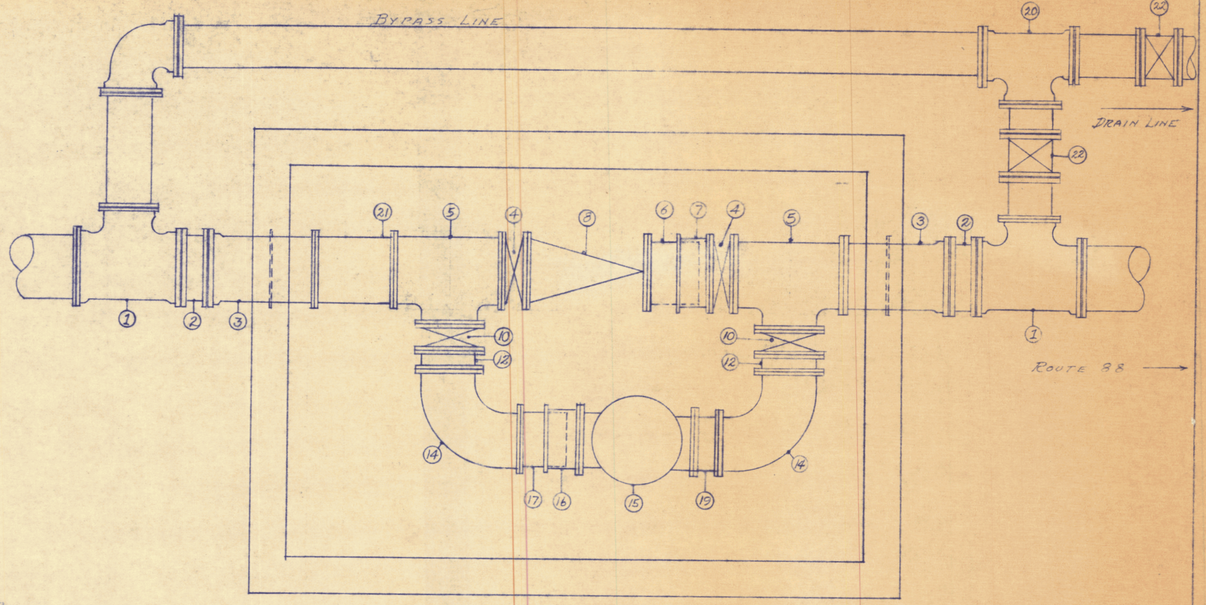
DESIGN JCH		CHECK JCH	
DRAWN TEE		APPROVED	
FIELD BOOK	SCALE	DATE	4 OF 8

STATUS

PORTLAND WATER DISTRICT PROPOSED TANK SITE
20" FEED MAIN
12" DRAIN
VALVE VAULT
PWD 30' EASEMENT
RAVINE ROAD
Existing Drainage
Proposed Pavement
60'
MAY NOT BE DEVELOPED WITHOUT APPROVAL OF PLANNING BOARD
RAVINE DRIVE
30' ROW
Reserved For Condominium Common Area
1
2
3
4
5
6
7
CUMBERLAND FORESIDE RESERVOIR
VICINITY MAP
PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104
DESIGN
CHECK
DRAWN
APPROVED
FIELD BOOK
SCALE
DATE
OF
STATUS



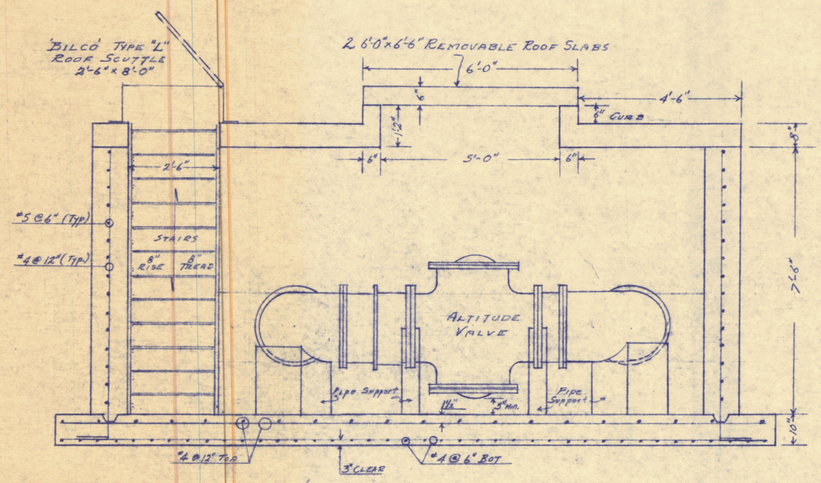
FLOOR PLAN



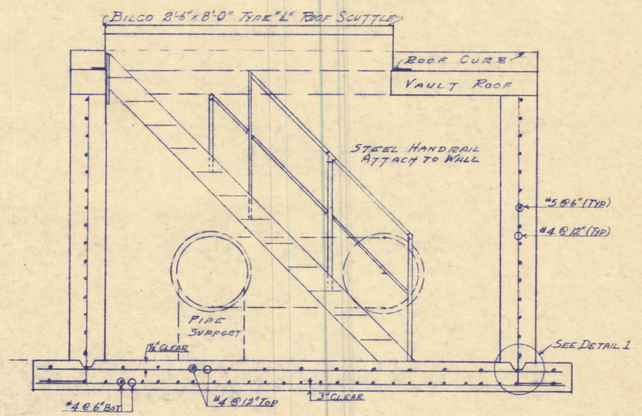
MECHANICAL PLAN
SCALE 1/2"-1'-0"

SCHEDULE OF FITTINGS

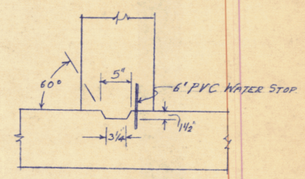
1	20"x12" MJMJ TEE
2	20"x15" PEPE PIPE
3	20" x 30" MJ FL WALL PIPE
4	20" BUTTERFLY VALVE
5	20"x20"x16" FLFLFL TEE
6	20" x 17" FL PE PIPE
7	20"-"913 FL COUPLING ADAPTER
8	20" CHECK VALVE FLFL
9	
10	16" BUTTERFLY VALVE
11	
12	16" x 6" FLFL PIPE
13	
14	16" - 90° FLFL BEND
15	16" DOUBLE ACTION FL FL ALTITUDE VALVE
16	16"-"913 FL COUPLING ADAPTER
17	16"x 15" FL PE PIPE
18	
19	16"x 8" FLFL PIPE
20	12"x12"x12" MJMJ TEE
21	38"x 8" FLFL PIPE
22	12" MJMJ VALVE
23	12"-90° MJMJ BEND



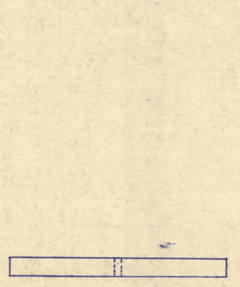
SECTION A-A
SCALE 1/2"-1'-0"

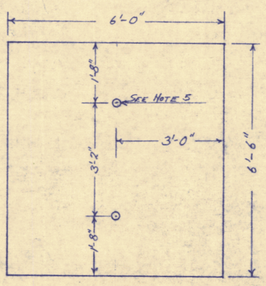


SECTION B-B
SCALE 1/2"-1'-0"

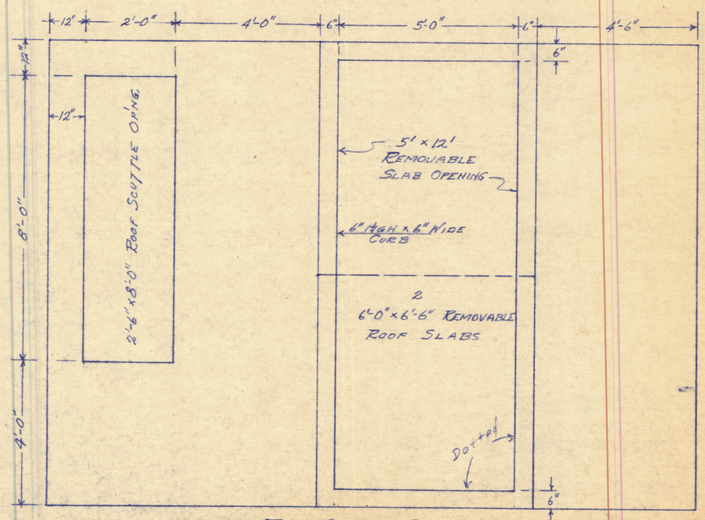


DETAIL 1
TYPICAL SHEAR KEY
SCALE 1"-1'-0"





REMOVABLE ROOF SLAB
SCALE 1/2"-1'-0"



TOP SLAB PLAN
SCALE 1/2"-1'-0"

NOTES

1. CONCRETE STRENGTH AT 28 DAYS SHALL BE 3000 P.S.I. MAXIMUM AGGREGATE SIZE IS 3/4"
2. REINFORCING STEEL SHALL BE ASTM A-615, A-616, OR A-617 GRADE 60
3. BAR SUPPORTS SHALL CONFORM TO CRSI STANDARDS
4. MANHOLE FRAME EQUAL TO ETHRIDGE FOUNDRY 25"x5" ECONOMY STYLE) COVER MARKED "WATER"
5. LIFTING POINTS IN TOP SLABS SHALL CONSIST OF 2" DIAMETER GALV. PIPE SLEEVES CAST THROUGH SLABS & THREADED TO RECEIVE BRASS PLUGS

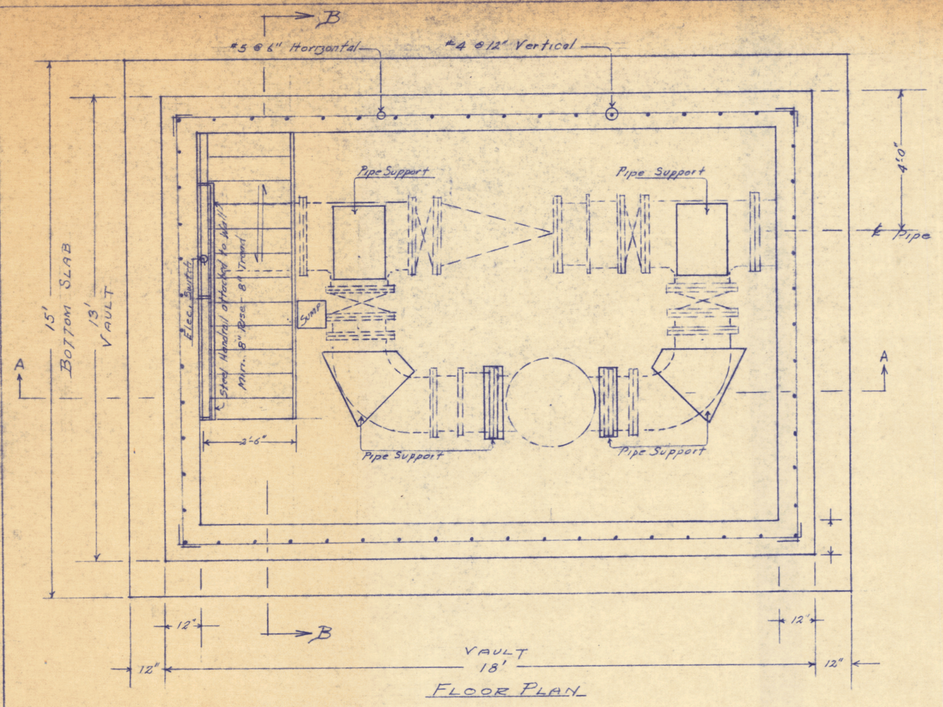
CUMBERLAND FORESIDE RESERVOIR

ALTITUDE VALVE VAULT AND MECHANICAL LAYOUT

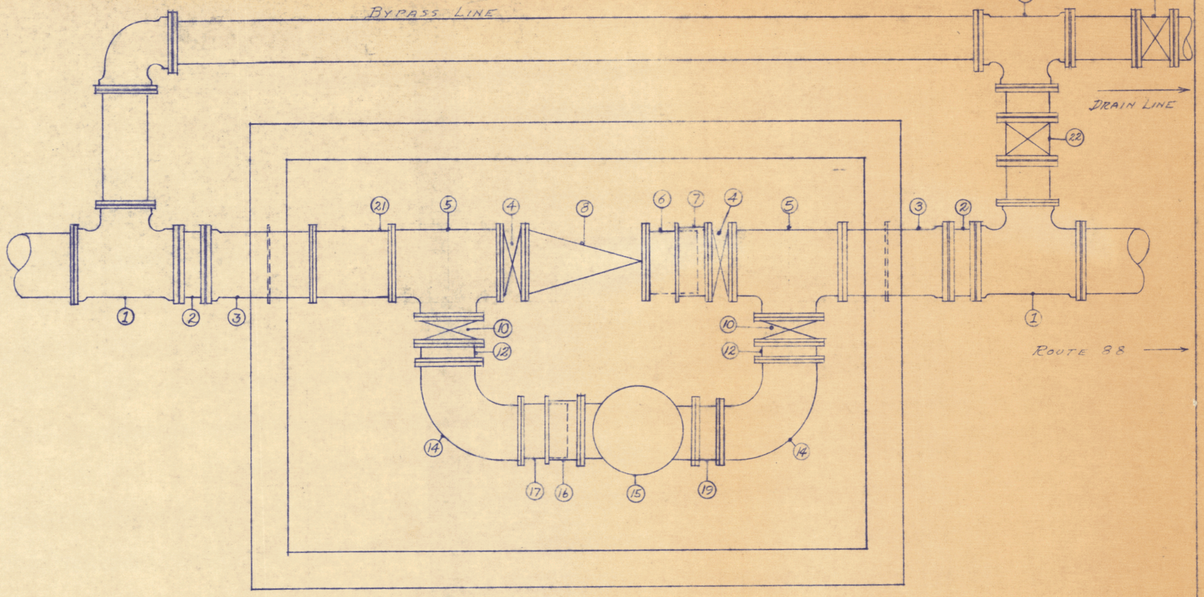
PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

DESIGN J. HEWETT		CHECK	
DRAWN T. EMERY		APPROVED	
FIELD BOOK	As Noted SCALE	-5- -79 DATE	OF

STATUS



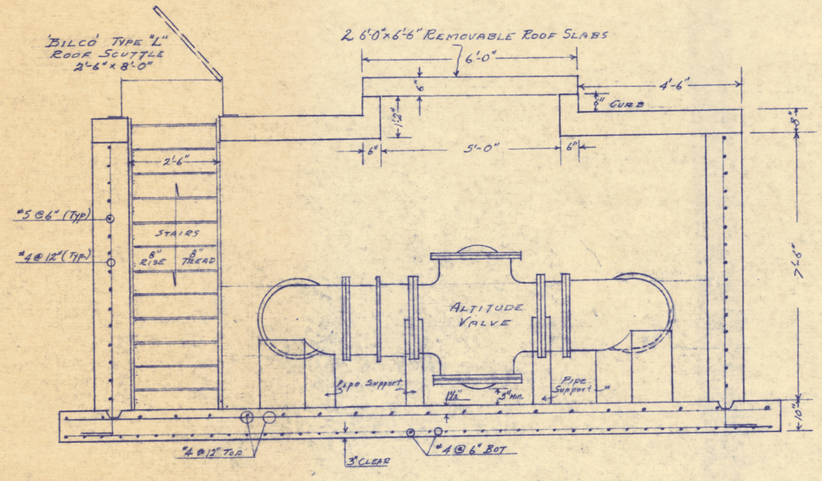
FLOOR PLAN



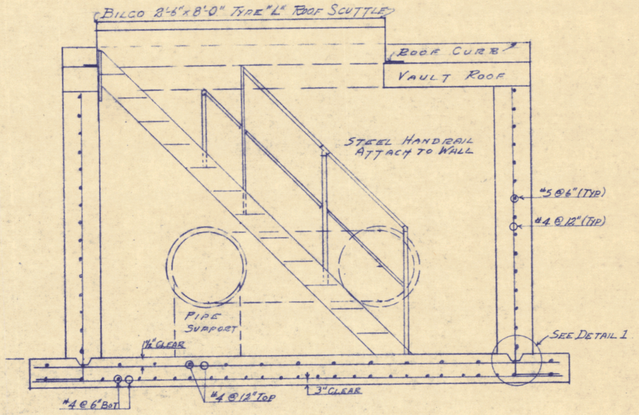
MECHANICAL PLAN
SCALE 1/2"-1'0"

SCHEDULE OF FITTINGS

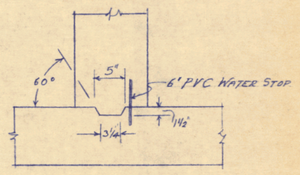
1	20"x12" MJMJ TEE
2	20"x15" FE PE PIPE
3	20" x 30" MJ FL WALL PIPE
4	20" BUTTERFLY VALVE
5	20"x20"x16" FLFLFL TEE
6	20"x17" FL PE PIPE
7	20"-"913 FL COUPLING ADAPTER
8	20" CHECK VALVE FLFL
9	
10	16" BUTTERFLY VALVE
11	
12	16" x 6" FLFL PIPE
13	
14	16"-90° FLFL BEND
15	16" DOUBLE ACTION FL FL ALTITUDE VALVE
16	16"-"913 FL COUPLING ADAPTER
17	16"x15" FL PE PIPE
18	
19	16" x 8" FLFL PIPE
20	12"x12"x12" MJMJ TEE
21	38"x 8" FLFL PIPE
22	12" MJMJ VALVE
23	12"-90° MJMJ BEND



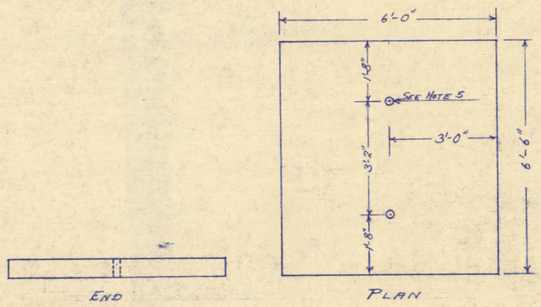
SECTION A-A
SCALE 1/2"-1'-0"



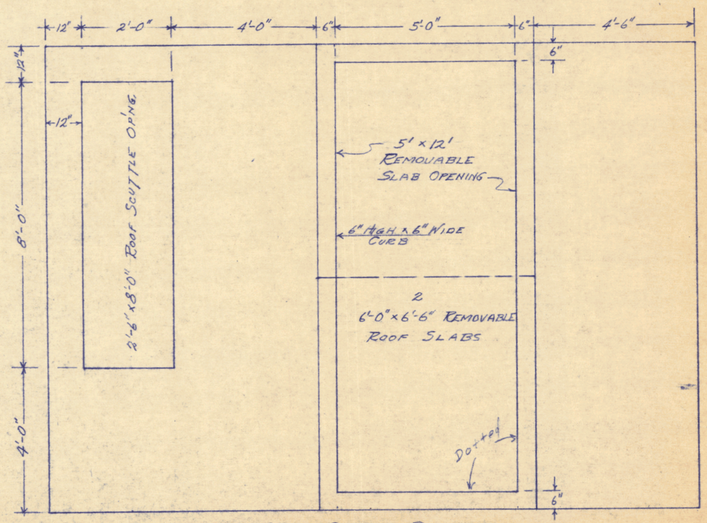
SECTION B-B
SCALE 1/2"-1'-0"



DETAIL 1
TYPICAL SHEAR KEY
SCALE 1"-1'-0"



REMOVABLE ROOF SLAB
SCALE 1/2"-1'-0"

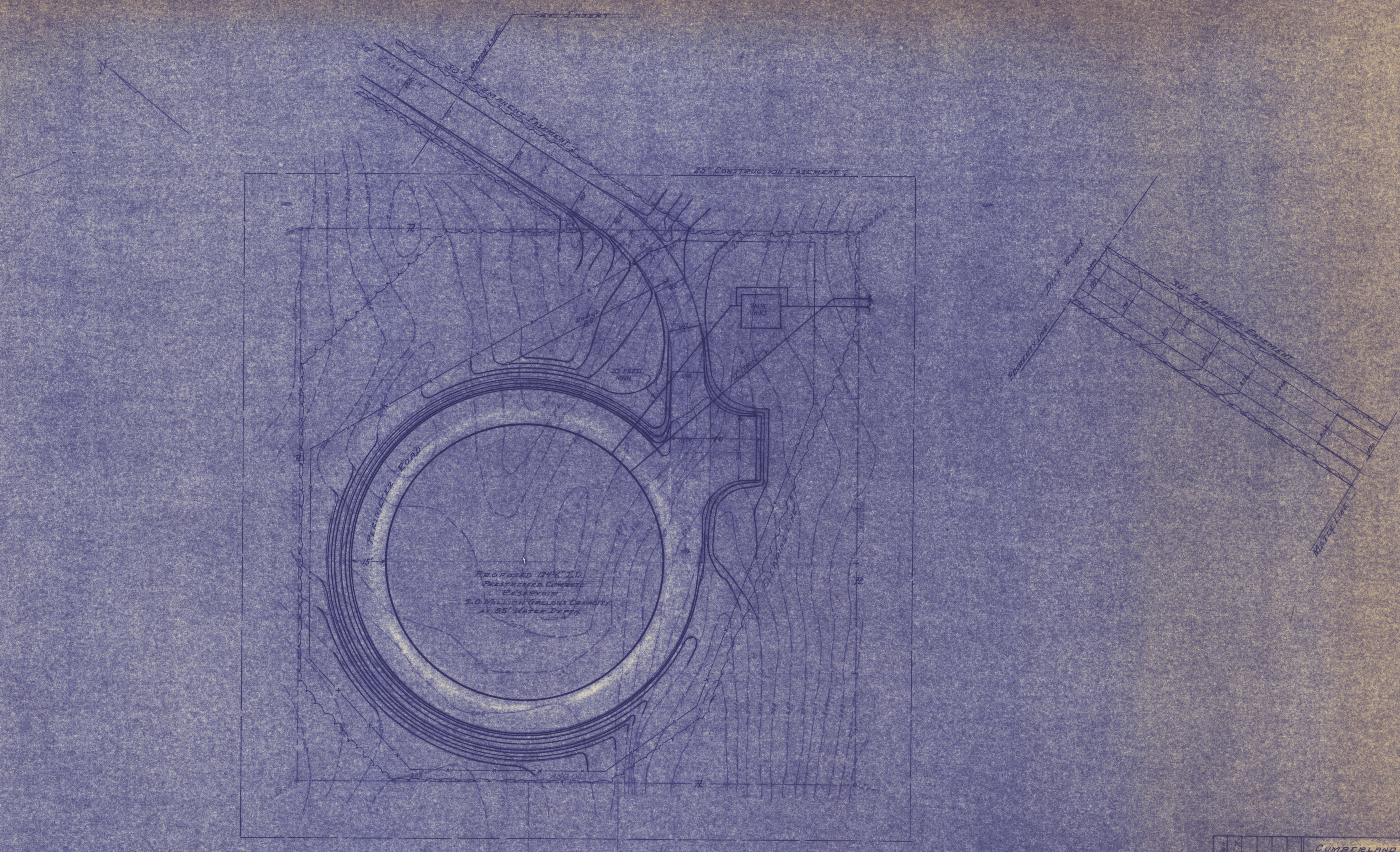


TOP SLAB PLAN
SCALE 1/2"-1'-0"

NOTES

1. Concrete Strength at 28 Days Shall be 3000 P.S.I. Maximum Aggregate Size is 3/4"
2. Reinforcing Steel shall be ASTM A-615, A-616, or A-617 Grade 60
3. Bar Supports shall Conform to CRSI Standards
4. Manhole Frame Equal to Ethridge Foundry 25 (4.5" Economy Style) Cover Marked "Water"
5. Lifting Points in Top Slabs shall consist of 2" Diameter Galv. Pipe Sleeves Cast Through Slabs & Threaded to Receive Brass Plugs

	CUMBERLAND FORESIDE RESERVOIR
	ALTITUDE VALVE VAULT AND MECHANICAL LAYOUT
	PORTLAND WATER DISTRICT 225 DOUGLASS STREET PORTLAND, MAINE, 04104
STATUS	DESIGN J. HEWETT / CHECK
	DRAWN JEMERY / APPROVED
	FIELD BOOK / SCALE As Noted / DATE 5-'79 / OF



6-14-79	CONTOURS ADDED K. Kern
6-28-79	GENERAL REVISIONS T.
STATUS	

CUMBERLAND FORESIDE RESERVOIR

SITE PLAN

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

DESIGN J. HEWETT	CHECK
DRAWN T. Emery	APPROVED

FIELD BOOK	SCALE	DATE	OF
Pg. 27	1" = 20'	[illegible]	

7½

PROP. P.W.D. ACCESS ROAD

1250'± TO U.S. ROUTE #1

IRON

S 41° 10' 40" E 250.00

DRILL HOLE

239.48' TO EXISTING HOUSE

EXISTING SWIMMING POOL

28'

VALVE VAULT

20" FEED MAIN

12" DRAIN

35'

5,000,000 GAL. RESERVOIR

124.5' DIA.

70' HIGH

N 48° 49' 20" E 250.00'

N 48° 49' 20" E 250.00'

35'

35'

IRON

S 41° 10' 40" E 250.00'

IRON

400'±

LAND OF WIDGERY THOMAS ESTATE

LAND OF CATHERINE M. REIMAN

118'

18"

8+33

5"

44°47'

18"

20" MAIN

12" DRAIN LINE

80' R/W LINE

10'

N 53°

DIST. 2212'

12" DRAIN LINE

20" WATER MAIN
SEE TYPICAL SECTION

SURVEY LINE

18" CULVERT

CATCH BASIN

HEADWALL

12" DRAIN LINE

ROUTE 88

OLD TOWN LANDING ROAD

TO FALMOUTH

MON.

PROPERTY LINE

STONEWALL

LAND OF CARMAN & FERNE PETTAPIECE

CUMBERLAND FORESIDE RESERVOIR

PLAN SHOWING PROPOSED 20" TANK FEED LINE AND 12" DRAIN LINE

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

DESIGN HENETT		CHECK	
DRAWN T. EMERY		APPROVED	
125-35-42 FIELD BOOK	1"=40' SCALE	5-7-79 DATE	OF

STATUS

Portland Water District Proposed Tank Site
40' R.O.W. Portland Water District
Proposed Filter Bed
Test Pits
Approx. Area Suitable For Additional Filter Bed
Proposed Filter Beds
30' Common Driveway Easement
Ravine Road
Existing Drainage
Proposed 8" Water Main
Proposed Pavement To This Point Only
Area For Turn Around
Gravel Area
Unit 1
Unit 2
Unit 3
Unit 4
Ravine Drive
Diversion Ditch
Distribution Box
Reserved For Condominium Common Area
Approximate Fill Limits
May Not Be Developed Without Approval Of Planning Board
Existing Pavement
Approx. Location 12" Water Main
To Portland
Route 9
Proposed Common Driveway Easement Paved Travelway
Ditch
Shoulder
24'
R/W
30' Minimum
50' R.O.W.
Typical Section
Note: All Roads Are To Be Privately Maintained
1" = 40'
PRELIMINARY SUBDIVISION PLAN
6-12-1979
Proposed Septic System And 30' Common Driveway Easement Added
DATE
REVISION
PLAN OF TOPOGRAPHY
IN
Cumberland, Maine
MADE FOR
BRENTWOOD
Land design
Incorporated
One Fletcher Street
Kennebunk, Maine 04043
H. I. & E. C. JORDAN — SURVEYORS
SCALE: 1" = 40'
Division of EDWARD C. JORDAN CO., INC.
ENGINEERS & PLANNERS
PORTLAND. ORONO. PRESQUE ISLE
DATE 4-24-1979
SURVEY JMR
PLOT JMR
TRACED
FIELD BOOK 720/121
OTHER PLAN Nos.
RES. NO. 952
PLAN FILE NO. 952

Cumberland Foreside Reservoir

Plan Showing Proposed 20" Tank Feed Line and 12" Drain Line

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

DESIGN: Hewett		CHECK	
DRAWN: T. Emery		APPROVED	
125 - 35-42 FIELD BOOK	1" = 40' SCALE	5-7-79 DATE	OF

STATUS

N

30' EASEMENT

330.00'

20" FEED MAIN

TANK

VALVE VAULT

6" DRAIN

DRIVEWAY

CUMBERLAND DIVISION
PROPOSED TANK SITE

TOPOGRAPHIC SURVEY
INCLUDING
PROPOSED RESERVOIR
AND
ACCESS ROAD

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

DESIGN
DRAWN
CHECK
APPROVED

STATUS

1" = 40'-0" CONTOURS ADDED

Gravel Road

N 84°34' E 30.00'

Iron

Iron

Fence

1.75'S

5 8°22'20"E 270.00'

30' PERMANENT EASEMENT

265.4'

5 8°22'20"E

300.00'

Iron

120.00'

S 41°10'40"E 250.00'

Iron

55.37'

Witness Stake in Concrete

Drill Hole

"BRENTWOOD"

S 85°17'10"E 332.38'

S 68°09'E 237.48'

Frog North

S 24°04'55"E 388.69'

S 54°57'20"E 226.64'

60.00'

2000

4000

2000

387.43'

S 24°04'55"E 386.81'

20' CONSTRUCTION EASEMENT

23769'

S 54°57'20"E 243.12'

PROPOSED COMMON DRIVEWAY EASEMENT FOR LOTS 2,3,&4

PROPOSED TANK

300.00'

N 48°49'20"E 250.00'

41.85'

2000

25' CONSTRUCTION EASEMENT

250.00'

N 48°49'20"E

300.00'

40' PERMANENT EASEMENT

S 41°10'40"E 250.00'

Iron

105.00'

40.00'

105.00'

Iron

30000

599.23'

N 35°02'40"E

546.55'

N 35°02'40"E

RAVINE ROAD

20' CONSTRUCTION EASEMENT

Stake

Stake

N 48°49'20"E 405.79'

(ORIGINAL) 40' PERMANENT EASEMENT

365.00'

N 48°49'20"E

320.00

60' PERMANENT EASEMENT

Drill Hole in Ledge

Stake

Stake

78364'

Iron

Stake

Iron Base 12" Oak

S 41°10'40"E 815.94

20' CONSTRUCTION EASEMENT

Iron

Iron

(ORIGINAL) 40' PERMANENT EASEMENT

854.37

S 41°10'40"E

Stake

Stake

1383'

N 70°10'20"E 409.1'

Conc. Mon.

276.17'

S 43°26'05"E

2002

Conc. Mon.

Stonewall

Conc. Mon.

Note: Street Lines are from Recorded Plans. The Compass Line on the Land Court Plan Following the Northerly Line of Lot 1 Shows the Bearings on a Different Origin.

S 70°05'40"E 173.82'

S 89°22'10"E 54.28'

S 89°22'10"E 30.00'

192.34

PERMANENT EASEMENT

40.12'

Iron Found

Large Granite Mon. Set Over Dr. in Ledge

Mon.

To Yarmouth

Mon.

Mons.

ROUTE # 88

OLD TOWN LANDING ROAD

To Portland

CARMAN & FERNE PETTAPIECE

Registered Land Surveyor # 772 James M. Mathews

STATE OF MAINE JAMES M. MATHEWS 772

6-13-1979	NEW EASEMENTS
DATE	REVISION

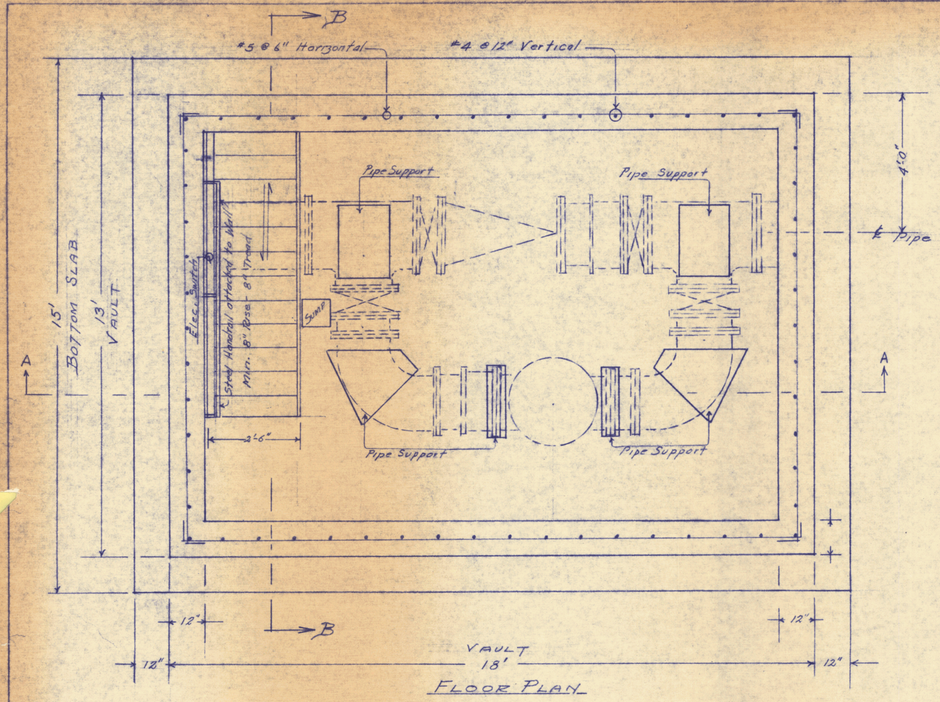
PLAN OF PROPERTY IN CUMBERLAND, MAINE MADE FOR PORTLAND WATER DISTRICT

SITE LOCATION PLAN

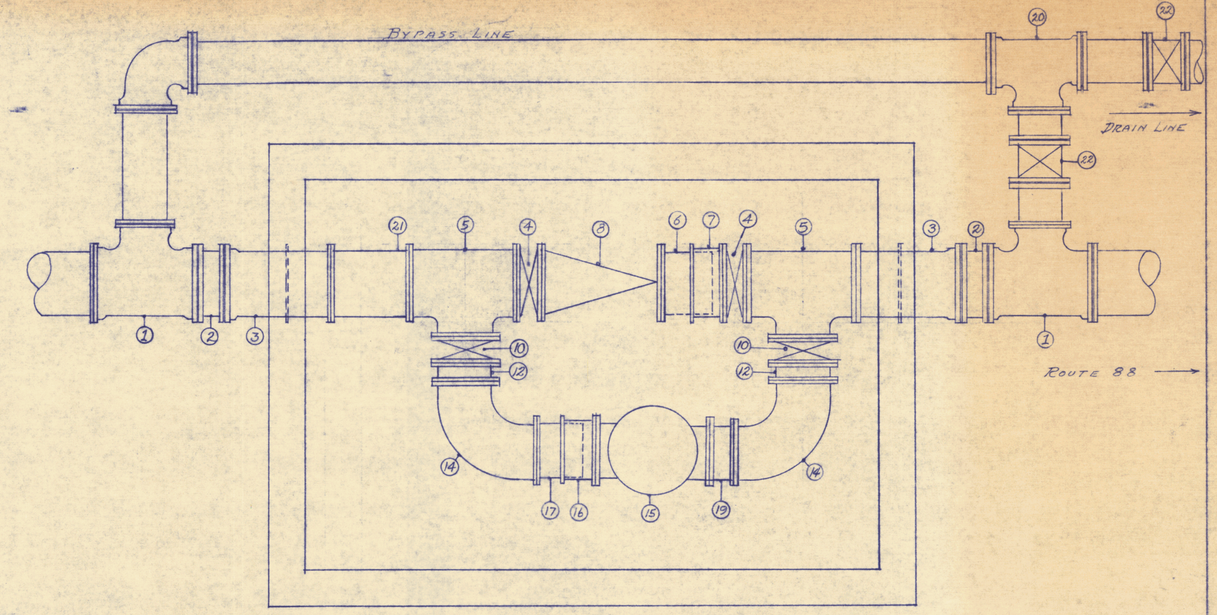
H. I. & E. C. JORDAN — SURVEYORS

Division of EDWARD C. JORDAN CO., INC. ENGINEERS & PLANNERS PORTLAND, OREGON, PHOENIX, ARIZ.

SCALE 1" = 40'					DATE 6-15-1978	
SURVEY	PLOT	TRACED	FIELD BOOK	Other Plan Nos.	REG. NO.	PLAN FILE NO.
JMR	JMR	JMR	720/132		952	952



FLOOR PLAN



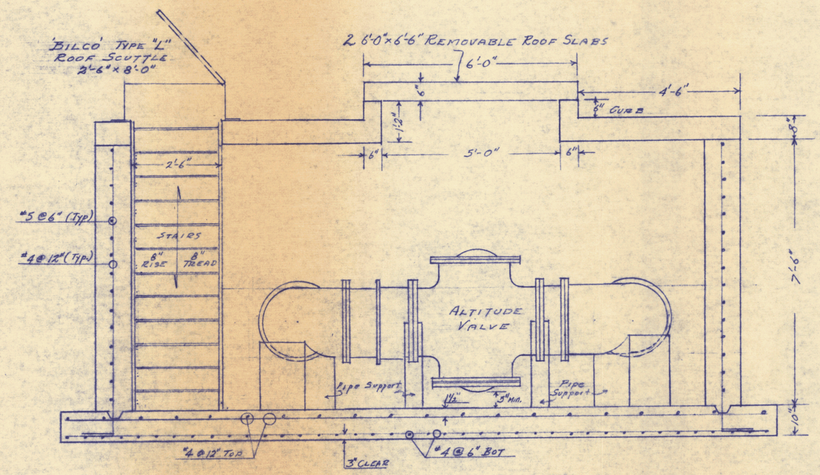
MECHANICAL PLAN
SCALE 1/2"-1'-0"

SCHEDULE OF FITTINGS

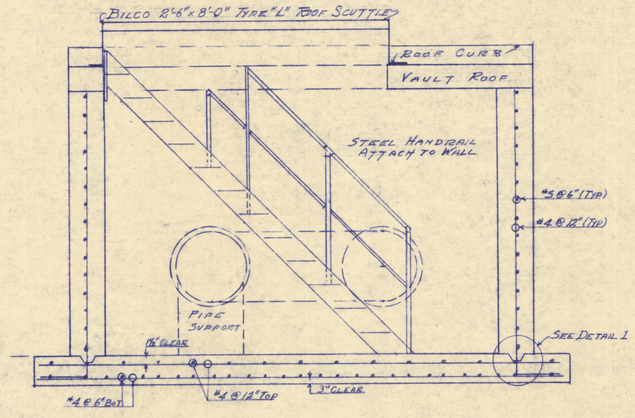
1	20"x12" MJMJ TEE
2	20"x15" PEPE PIPE
3	20" x 30" MJ FL WALL PIPE
4	20" BUTTERFLY VALVE
5	20"x20"x16" FLFLFL TEE
6	20"x17" FL PE PIPE
7	20"-$^{9}/_{13}$ FL COUPLING ADAPTER
8	20" CHECK VALVE FLFL
9	
10	16" BUTTERFLY VALVE
11	
12	16" x 6" FLFL PIPE
13	
14	16"-90° FLFL BEND
15	16" DOUBLE ACTION FL FL ALTITUDE VALVE
16	16"-$^{9}/_{13}$ FL COUPLING ADAPTER
17	16"x15" FL PE PIPE
18	
19	14"x 8" FL FL PIPE
20	12"x12"x12" MJMJ TEE
21	38"x 8" FLFL PIPE
22	12" MJMJ VALVE
23	12"-90° MJMJ BEND

NOTES

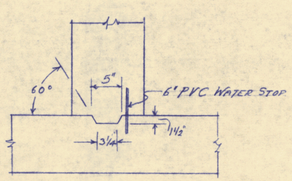
1. CONCRETE STRENGTH AT 28 DAYS SHALL BE 3000 PSI, MAXIMUM AGGREGATE SIZE IS 3/4"
2. REINFORCING STEEL SHALL BE ASTM A-615, A-616, OR A-617 GRADE 60
3. BAR SUPPORTS SHALL CONFORM TO CRSI STANDARDS
4. MANHOLE FRAME EQUAL TO ETHRIDGE FOUNDRY 26"x5'-1" ECONOMY STYLE, COVER MARKED "WATER"
5. LIFTING POINTS IN TOP SLABS SHALL CONSIST OF 2" DIAMETER GALV. PIPE SLEEVES CAST THROUGH SLABS & THREADED TO RECEIVE BRASS PLUGS



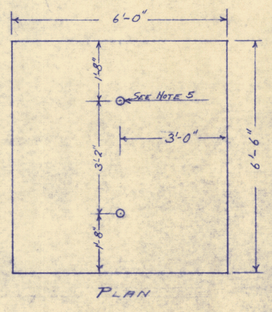
SECTION A-A
SCALE 1/2"-1'-0"



SECTION B-B
SCALE 1/2"-1'-0"



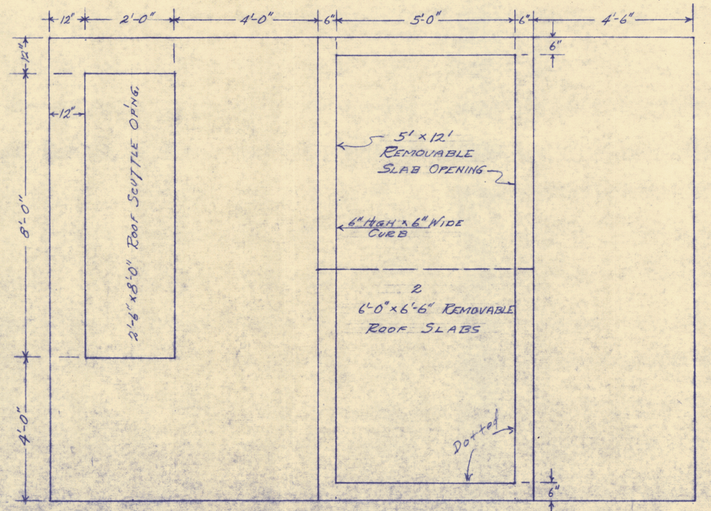
DETAIL 1
TYPICAL SHEAR KEY
SCALE 1"-1'-0"



PLAN

END

REMOVABLE ROOF SLAB
SCALE 1/2"-1'-0"



TOP SLAB PLAN
SCALE 1/2"-1'-0"

CUMBERLAND FORESIDE RESERVOIR

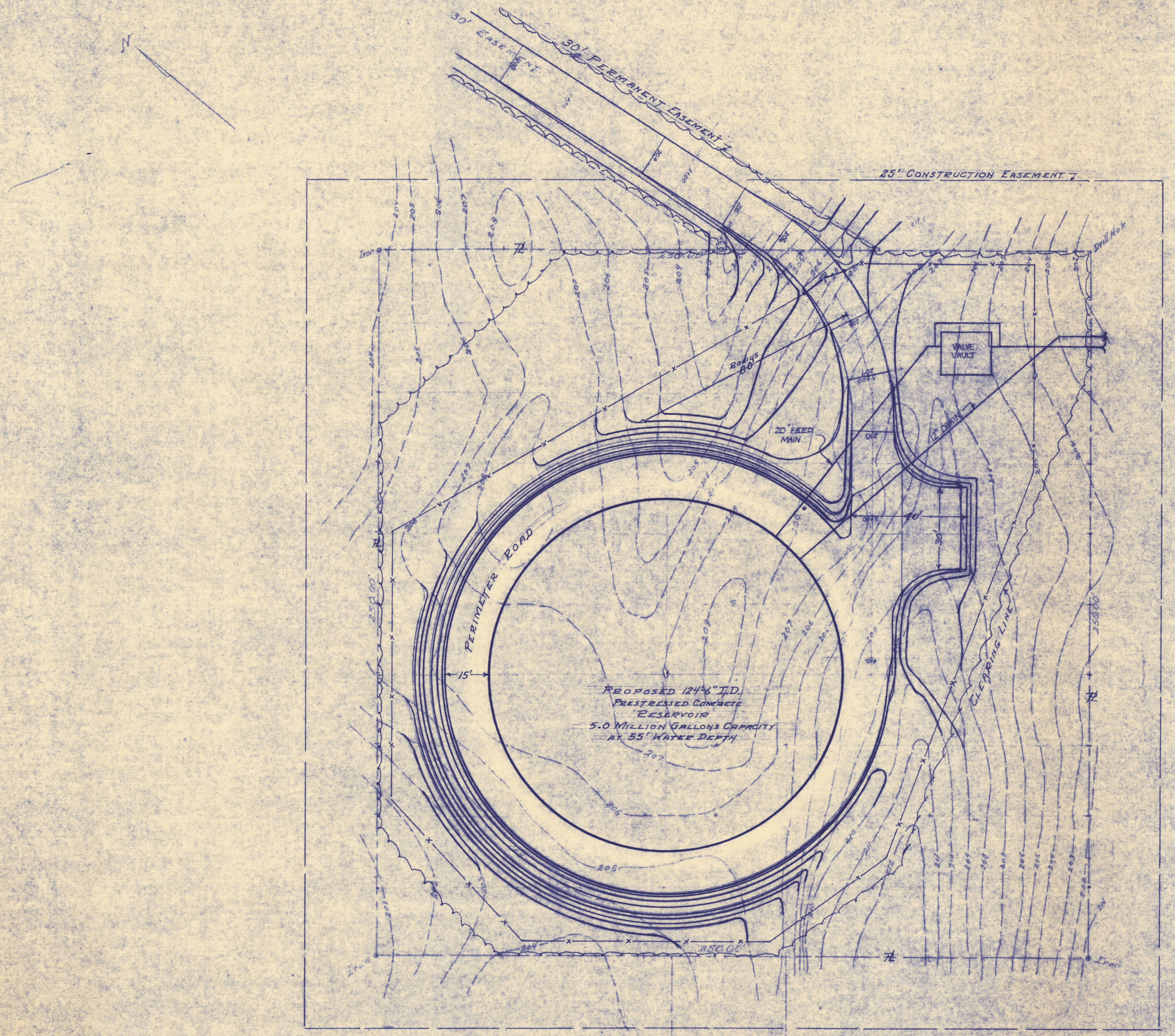
ALTITUDE VALVE VAULT AND MECHANICAL LAYOUT

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

DESIGN J. HEWETT		CHECK	
DRAWN ZEMERY		APPROVED	
FIELD BOOK	AS NOTED SCALE	5-79 DATE	OF

STATUS

Water Tank



6-14-79	Contours Added	K. Kern	
6-28-79	General Revisions	T.	
Status			

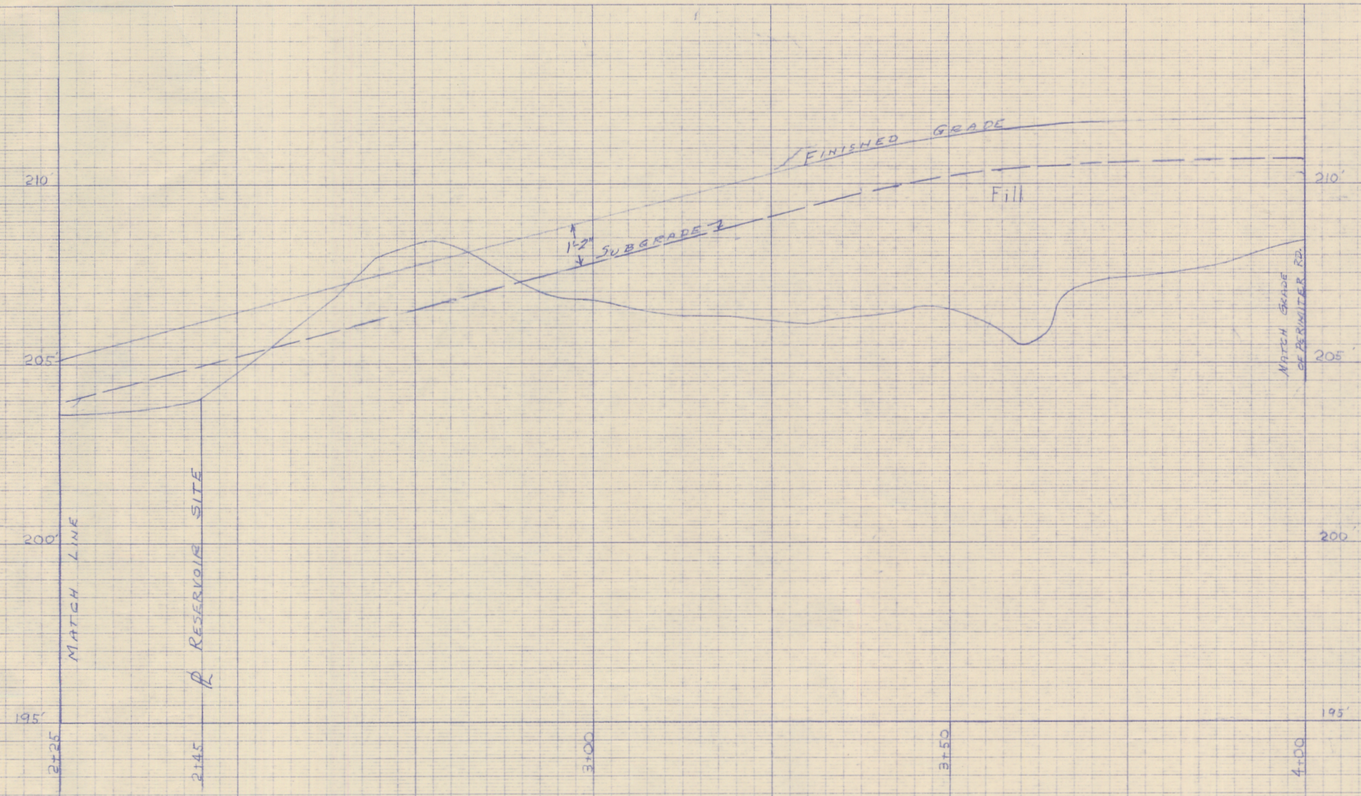
Cumberland Foreside Reservoir

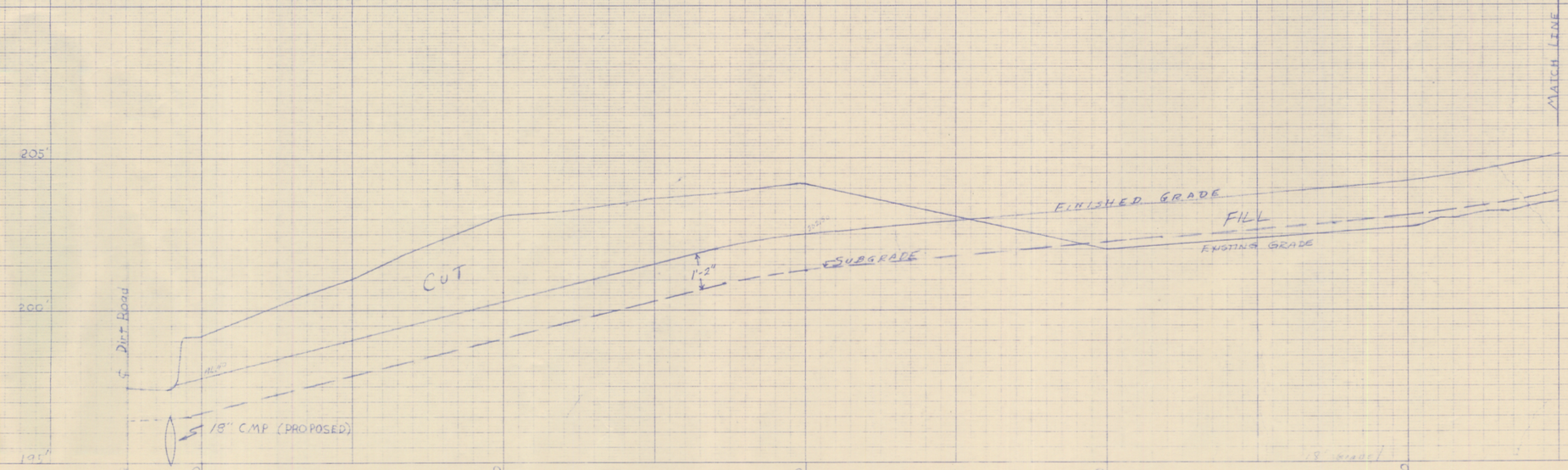
Site Plan

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

DESIGN J. Hewett		CHECK	
DRAWN T. Emery		APPROVED	
FIELD BOOK Bk 125 Pg. 5-13	SCALE 1" = 20'	DATE 12-21-78	OF

7½





NOTE: WORK TO SUBGRADE BY OWNER; WORK TO FINISH GRADE BY CONTRACTOR

	CUMBERLAND FORESIDE RESERVOIR
	PROPOSED ACCESS ROAD CENTERLINE PROFILE
	PORTLAND WATER DISTRICT 225 DOUGLASS STREET PORTLAND, MAINE, 04104
12/6/74 CORRECTED REV. & INFO	DESIGN K. KERN CHECK DRAWN D.W. PERNAULT APPROVED FIELD BOOK SCALE DATE
STATUS	5 OF 8

KEUFFEL & ESSER CO. MADE IN U.S.A.

CUMBERLAND FORESIDE
RESERVOIR
ACCESS ROAD X-SECTIONS
C.E. H&V 10-29-79 Jsc

WEST

205 204 202 204 202 200 198

2+50 2+00 1+50 1+00 0+50 0+00

16'-0" 14'-0" 4:1 4:1 GRAVEL 4:1 GRAVEL 4:1 4:1 DIRT ROAD

2 1 2 0-12

205 204 202 204 202 200 198

EAST

FINAL SURVEY
SURVEYED BY DATE
PLOTTED
TEMPLATE
NOTE BOOK AREAS
NO. AREAS CHECKED

ORIGINAL SURVEY
SURVEYED BY DATE
PLOTTED
TEMPLATE
NOTE BOOK AREAS
NO. AREAS CHECKED

HIGHWAY FEDERAL AID SHEET
PLATE 3-FULL CROSS SECTION-FULL LINE
TELEDYNE
PRINTED IN U.S.A.

SHEET 6 OF 8

18

RESERVOIR SITE CROSS SECTIONS

SCALE 1"=20' H
1"=5' V

10-25-79

NOTE: EXISTING FENCE LINE PROPOSED FENCE LINE

1+50 1+25 1+00 0+75 0+50 0+25 0+00

210 205 200 215 210 205 210 205 200 210 205 200 210 205 200 210 205 200 210 205 200

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

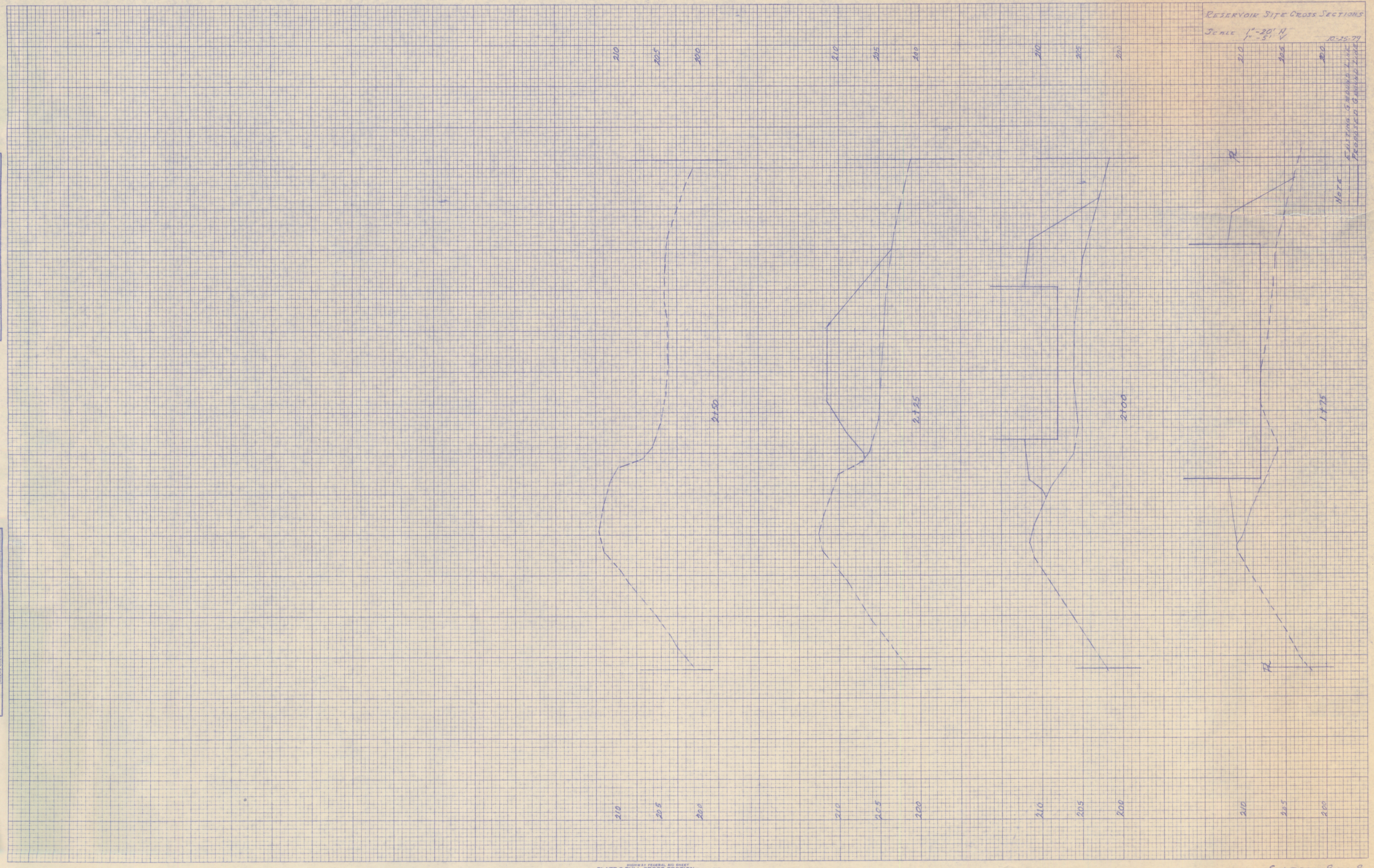
ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

HIGHWAY FEDERAL AID SHEET
PLATE 3-FULL CROSS SECTION-FULL LINE
3M TELEDYNE
PRINTED IN U.S.A.

RESERVOIR SITE CROSS SECTIONS

SCALE 1"=20' H
1"=5' V

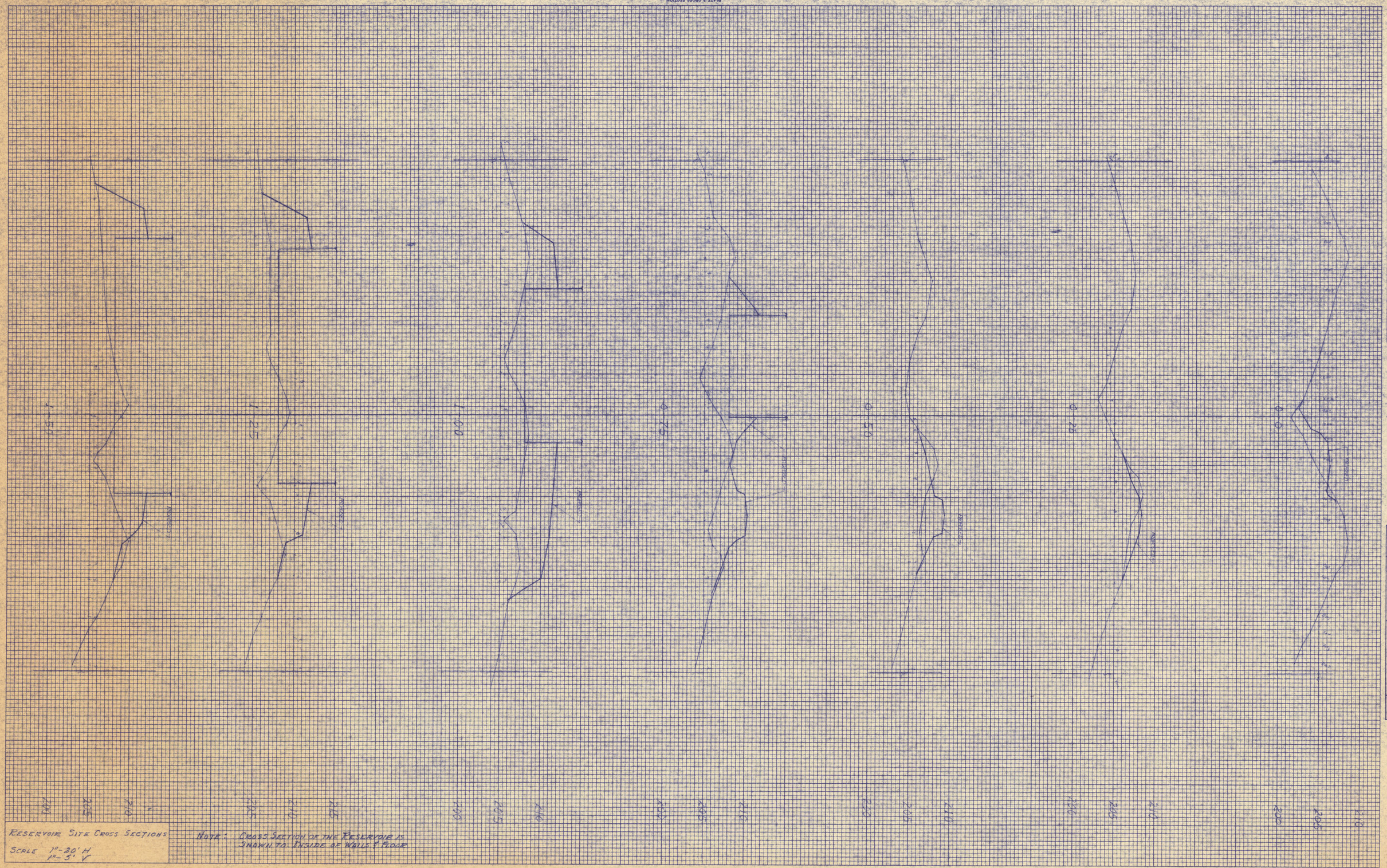
10-25-79



FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

PLATE 3 CROSS SECTION
CLEARPRINT PAPER CO., S.F. CAL. NO. 1000-1



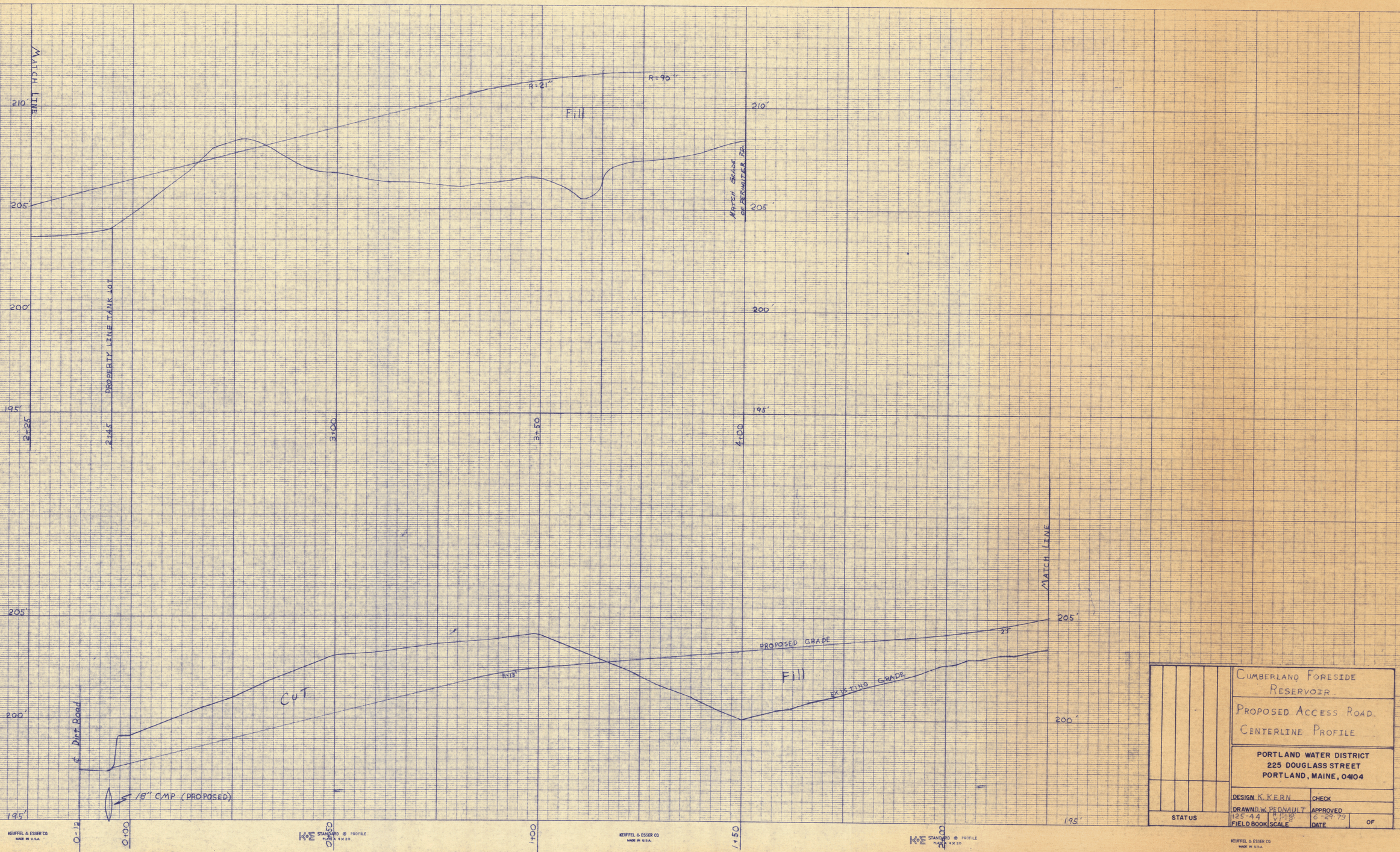
RESERVOIR SITE CROSS SECTIONS
SCALE 1"=20' H
1"=5' V

NOTE: CROSS SECTION OF THE RESERVOIR IS SHOWN TO INSIDE OF WALLS & FLOOR

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	COMPUTED		
	TRAPLATT		
	AREAS		
NO.	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	COMPUTED		
	TRAPLATT		
	AREAS		
NO.	AREAS CHECKED		

Reservoir Site Cross Sections
Scale 1"=20' H
1"=5' V
Note: Cross Section of the Reservoir is
shown to inside of walls & floor
210
205
200
1+75
2+0
2+25
2+50
℄
FINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.
BY
DATE
ORIGINAL SURVEY
PLATE 3 CROSS SECTION
CLEARPRINT PAPER CO., S.F. CAL.



CUMBERLAND FORESIDE RESERVOIR

PROPOSED ACCESS ROAD.
CENTERLINE PROFILE

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

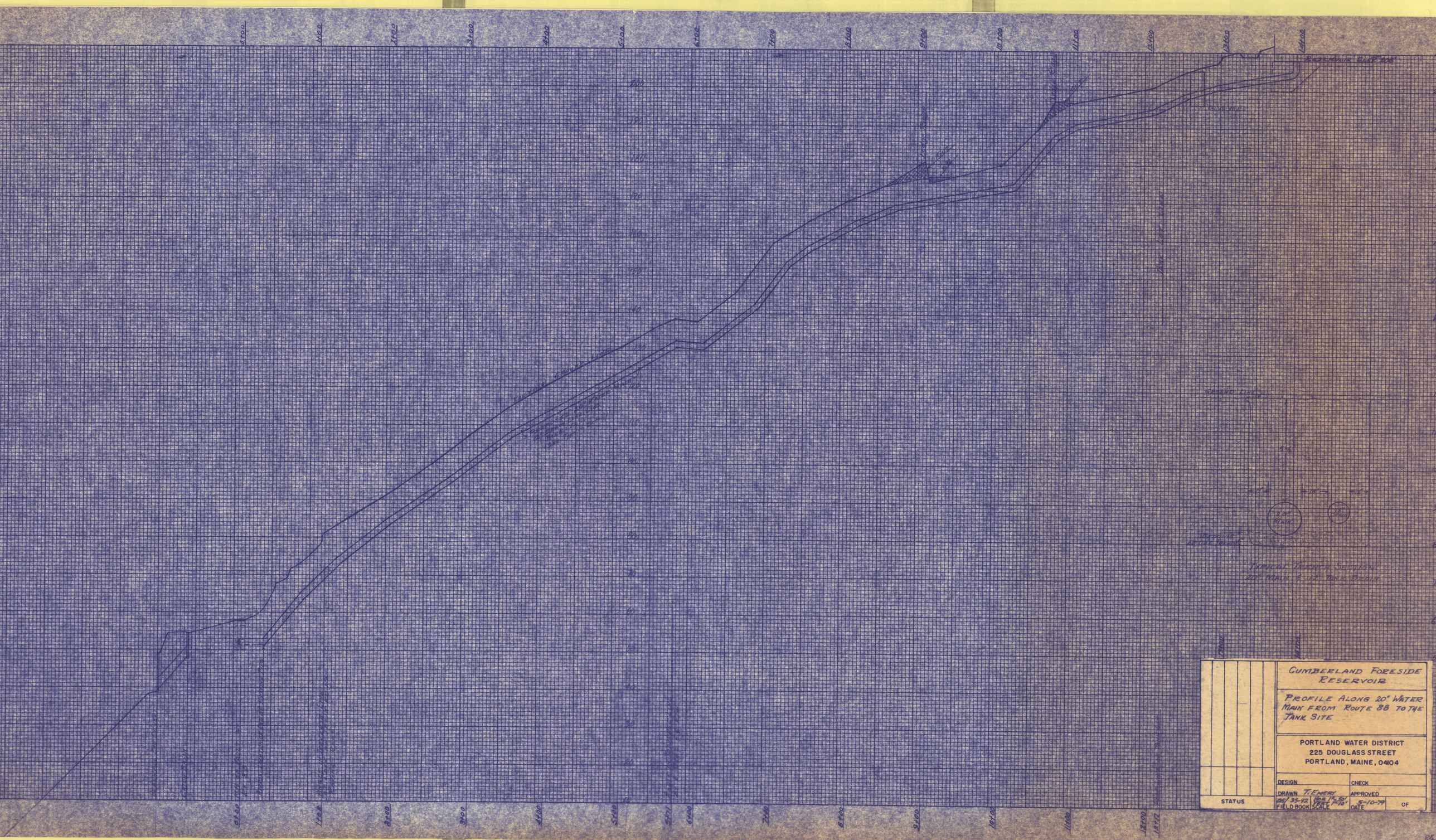
DESIGN K. KERN	CHECK
DRAWN D.W. PERNAULT	APPROVED
125-44	6-29-79
FIELD BOOK SCALE	DATE

STATUS

OF

KEUFFEL & ESSER CO. MADE IN U.S.A.

K&E STANDARD ® PROFILE PLATE 4 X 20

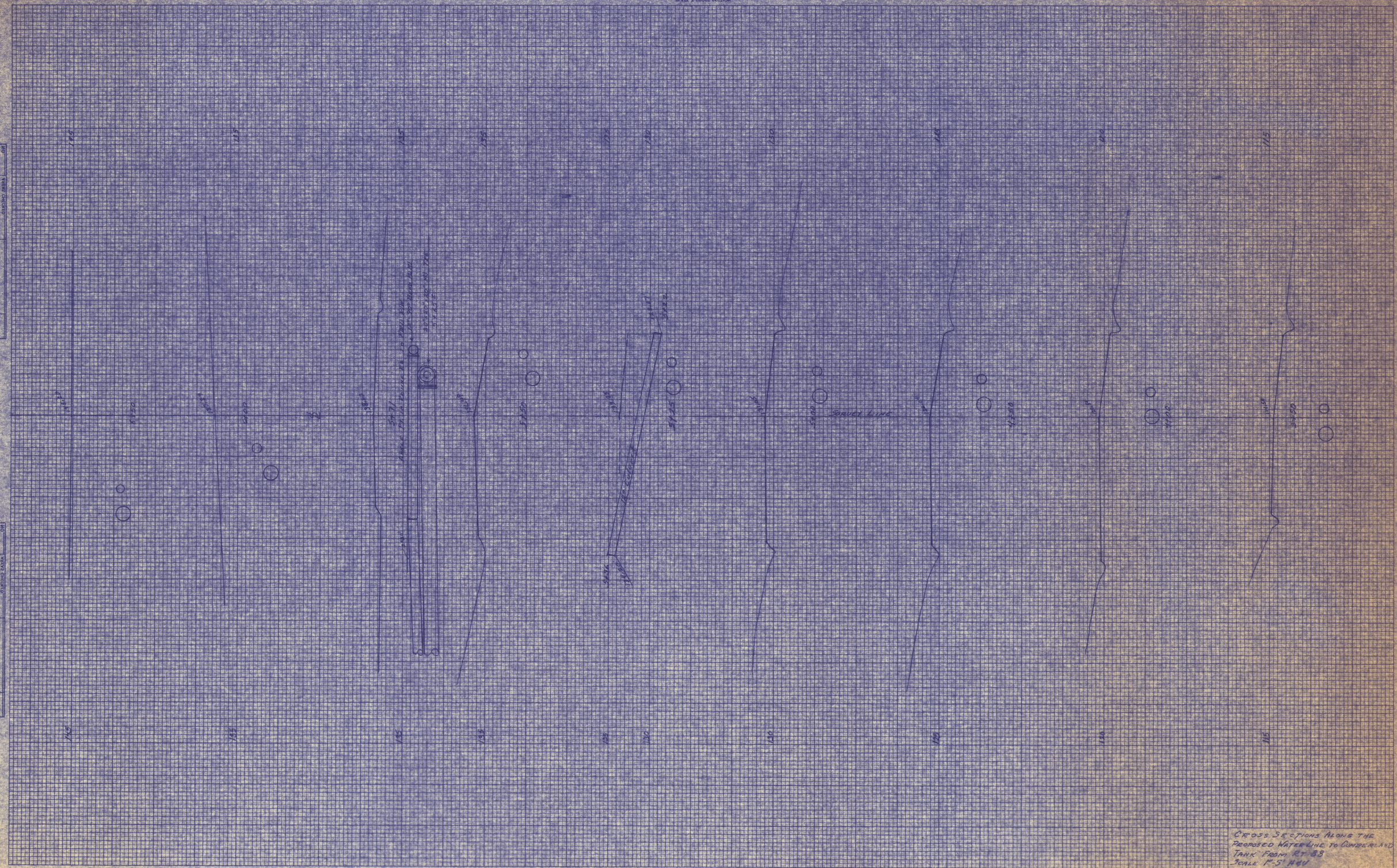

Cumberland Foreside Reservoir
Profile Along 20" Water Main from Route 88 to the Tank Site
Portland Water District
225 Douglass Street
Portland, Maine, 04104
Design
Drawn T. Emery
Check
Approved
Status
Field Book 125/35-42
Scale 1"=20' H, 1"=10' V
Date 5-10-79
Of
Typical Trench Section
20" Main & 12" Tank Drain

HORTON-BROOKS & BAILEY
CLEARPRINT PAPER CO., S.F., CAL.
NO. 1000 R-1

CHECKED
WORK BOOK
PAGE
DRAWING
TRACING
DETAILED
APPROVED
DATE
BY
CHECKED
WORK BOOK
PAGE
DRAWING
TRACING
DETAILED
APPROVED
DATE
BY

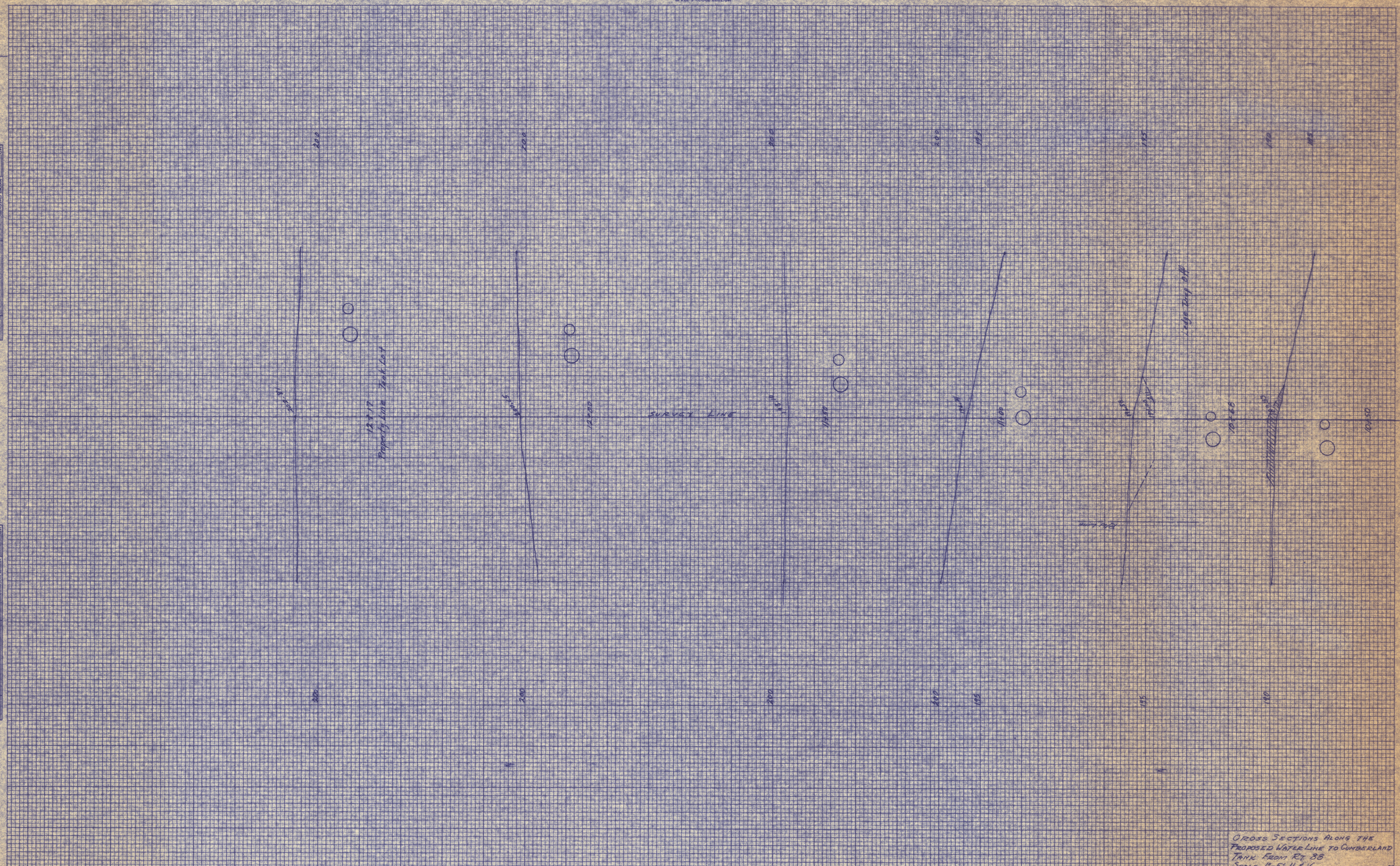
Cross Sections Along the Proposed National Line to Cumberland Tank from Pt. 88
Scale 1" = 5' Hor.

1 of 5


CROSS SECTIONS ALONG THE
PROPOSED WATERLINE TO CUMBERLAND
TANK FROM RT. 88
SCALE 1"=5' H&V

CROSS SECTIONS ALONG THE
PROPOSED WATER LINE TO CUMBERLAND
TANK FROM RT. 88
SCALE 1"-5' H & V

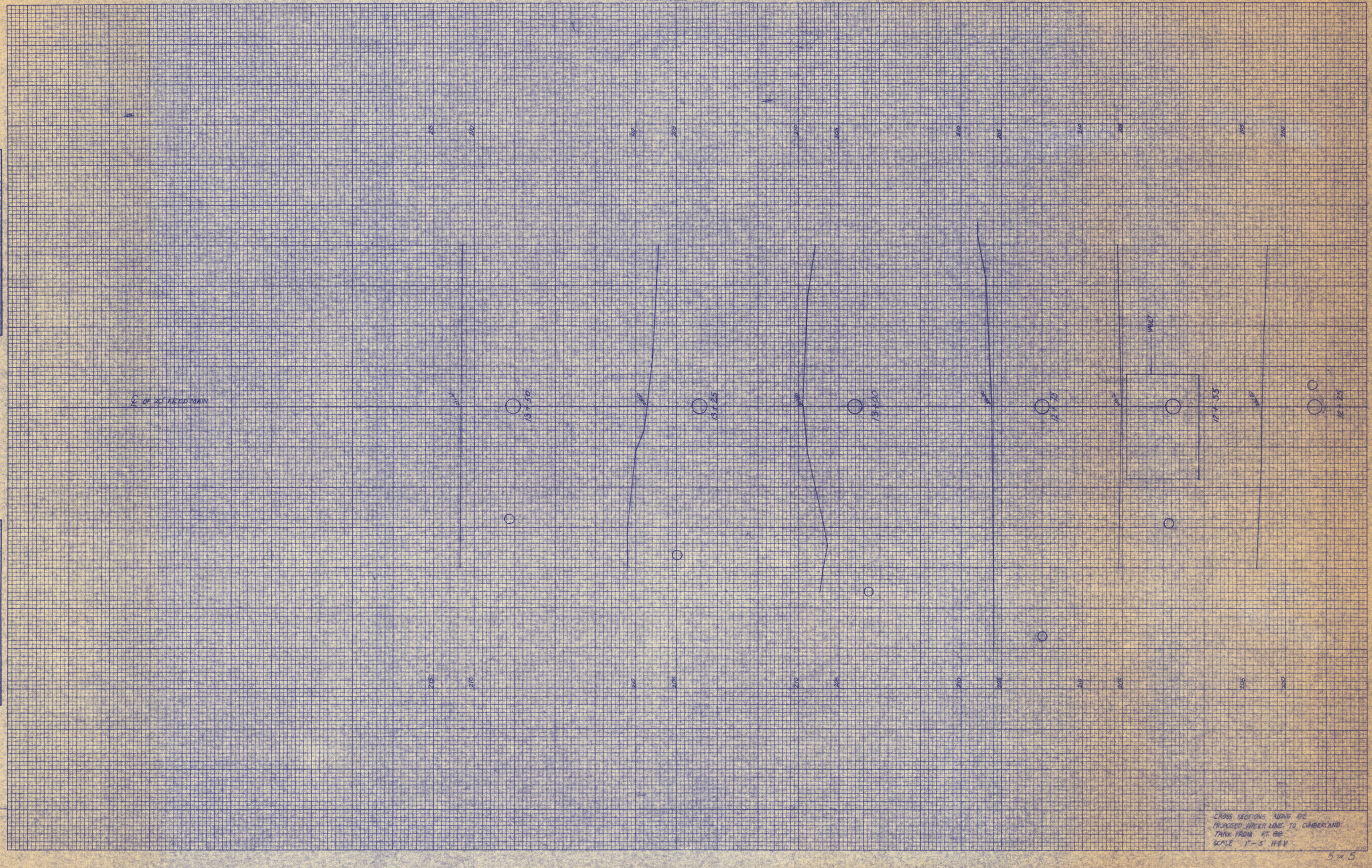
3 OF 5

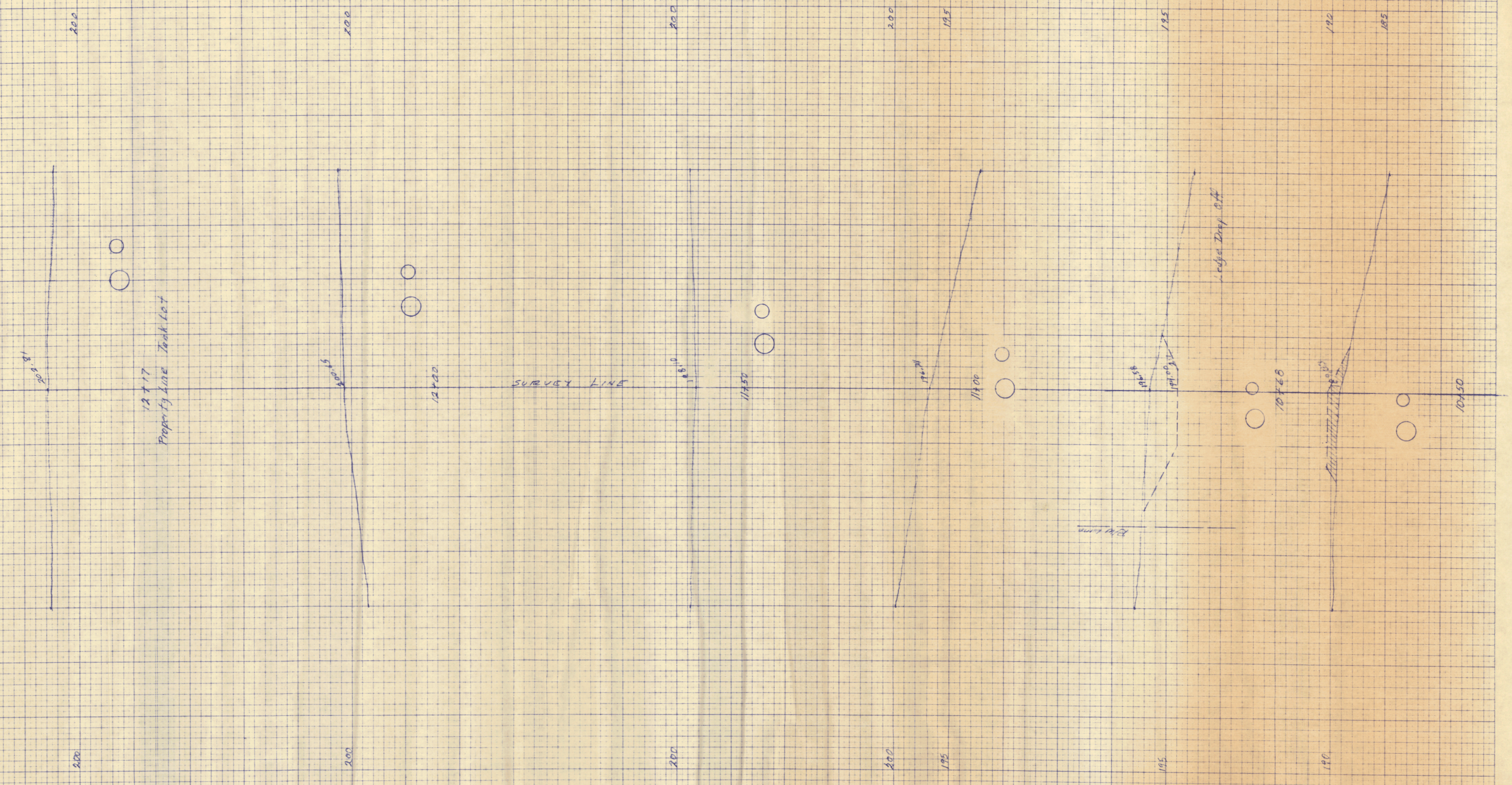


CROSS SECTIONS ALONG THE
PROPOSED WATER LINE TO CUMBERLAND
TANK FROM RT. 28
SCALE 1"=5' H & V

PLATE 3-LEVEL CROSS SECTION LOVELL LINE

PRINTED IN U.S.A.

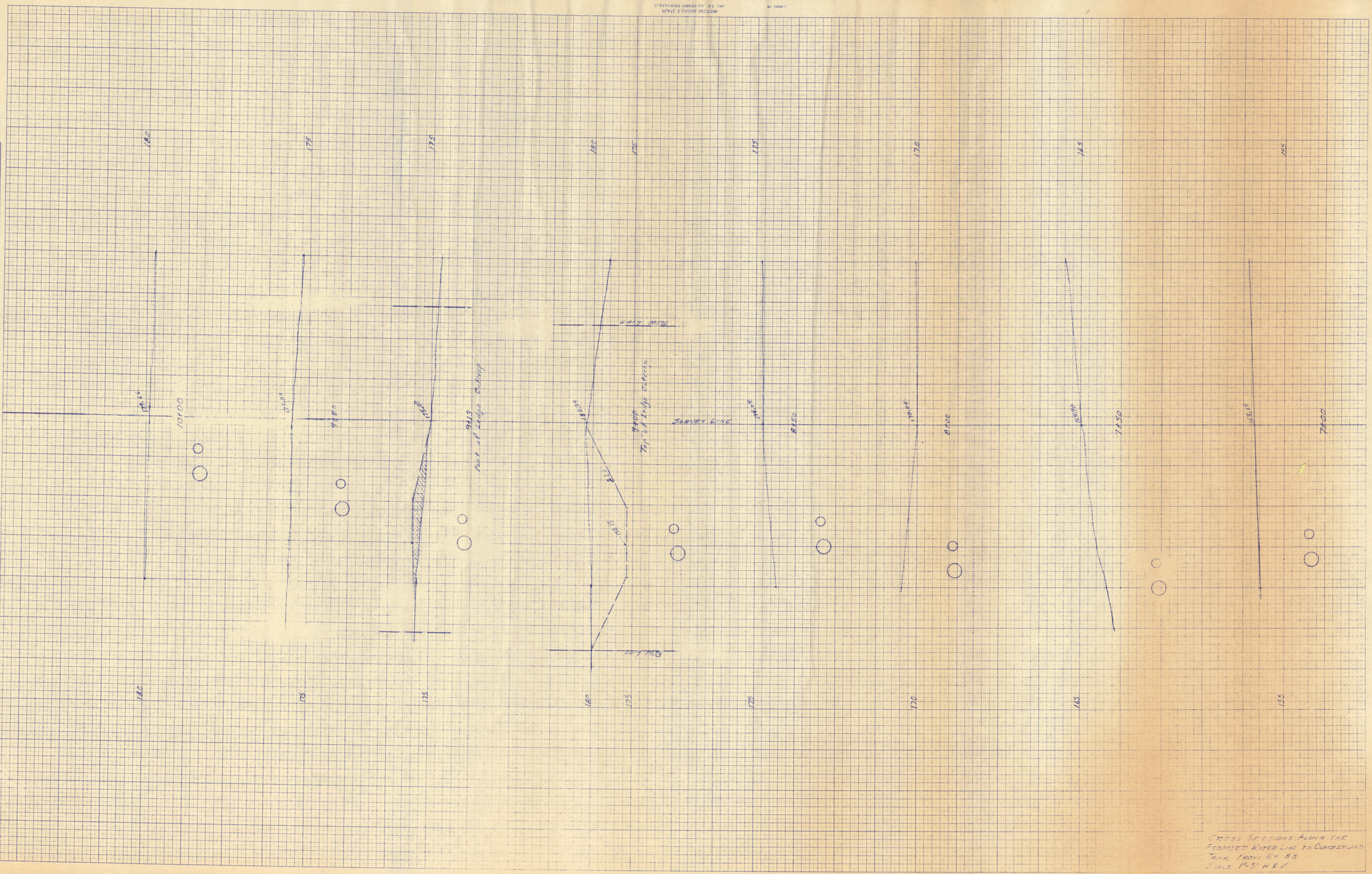




CROSS SECTIONS ALONG THE PROPOSED WATER LINE TO CUMBERLAND TANK FROM RT. 88
SCALE 1"-5' H & V

CLEARPRINT PAPER CO. P.B. CAT.
NO. 1000H-3

PLATE 3 CROSS SECTION



Cross Sections Along the Proposed Water Line to Cumberland Tank from Rt. 88
Scale 1"=5' H & V

3 of 4

GRAPH-PAPER CO., ST. LOUIS
NO. 10008

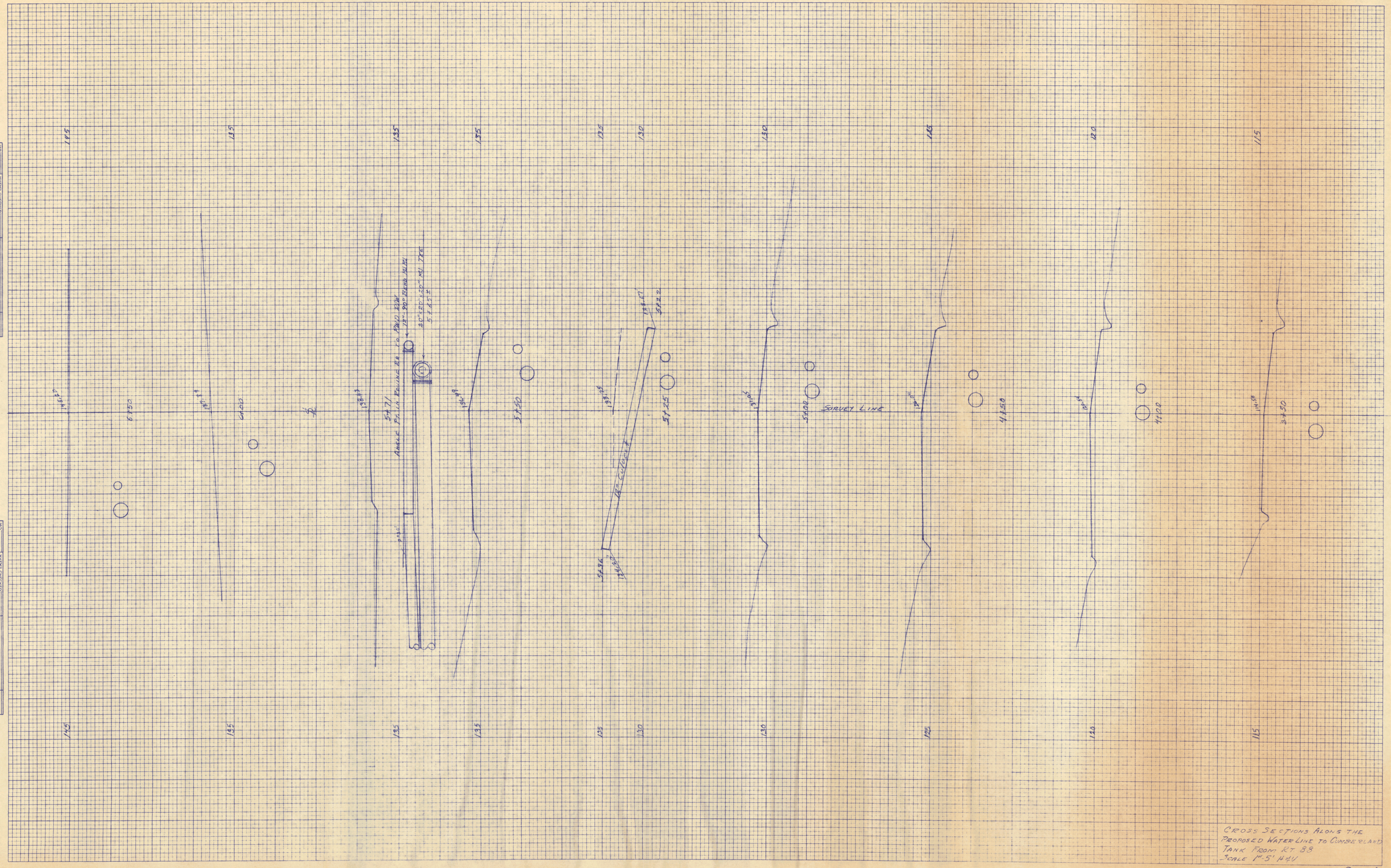
BASE & CROSS SECTION

DATE	BY	
		ORIGINAL
		REVISED
		PLOTTED
		STAKED
		CHECKED

JANUARY	
SURVEY	
BOOK NO.	
PAGE	
NOTE BOOK	
NO.	

DATE	BY	
		ORIGINAL
		PLOTTED
		STAKED
		CHECKED

FINAL	
SURVEY	
BOOK NO.	
PAGE	
NOTE BOOK	
NO.	



CROSS SECTIONS ALONG THE PROPOSED WATER LINE TO CUMBERLAND TANK FROM RT 88
SCALE 1" = 5' H & V

Cross Sections Along the
Proposed Water Line to Cumberland
Tank From Rt. 88
Scale 1"-5' H&V

Cumberland Tank Site

Profile Along 20" Water Main from Route 88 to the Tank Site

PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104

STATUS	DESIGN	CHECK	
	DRAWN T. Emery	APPROVED	
	FIELD BOOK 125/ 35-42	SCALE Hor 1" = 50' Vert 1" = 10'	DATE 5-10-79	OF

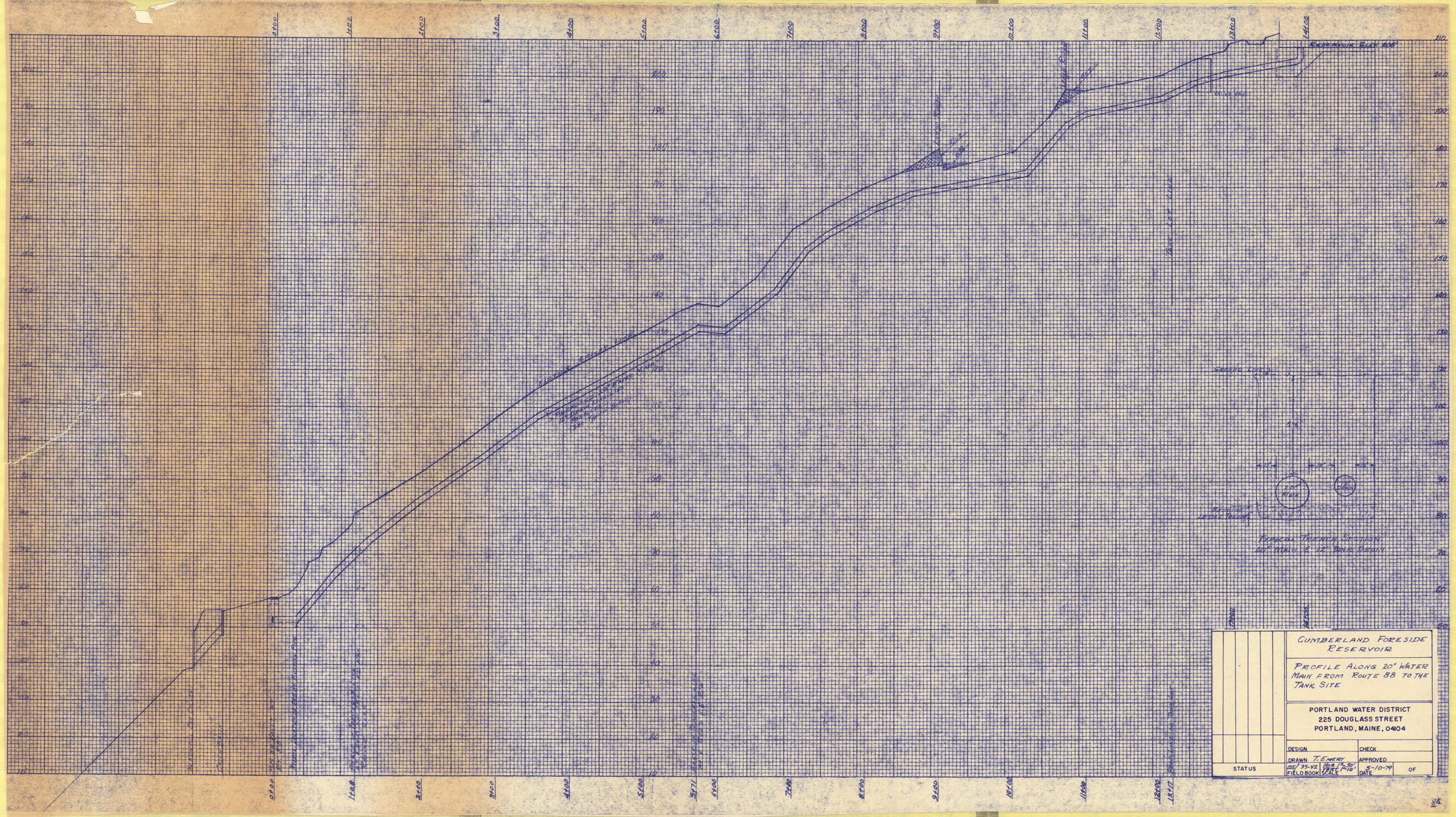
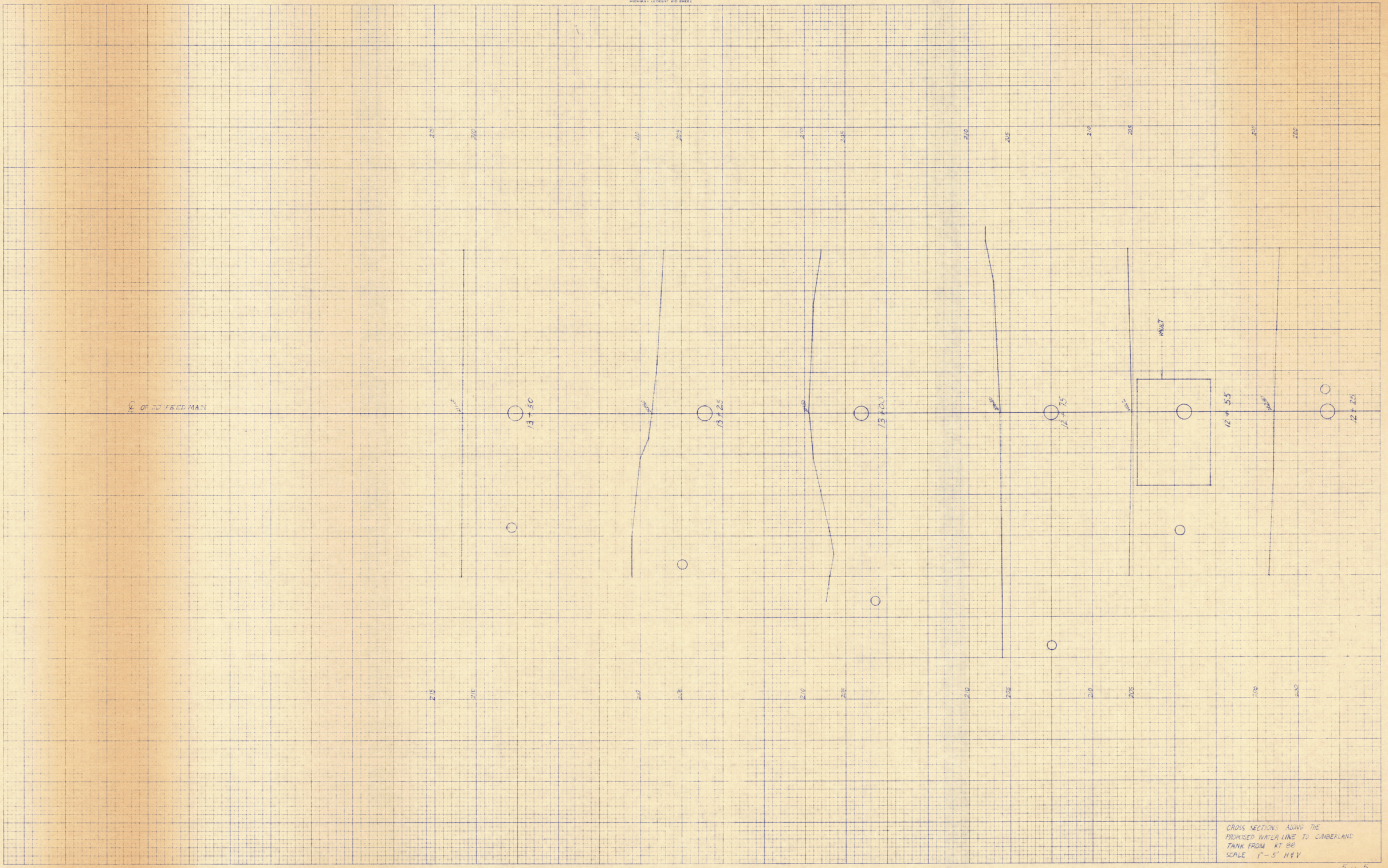
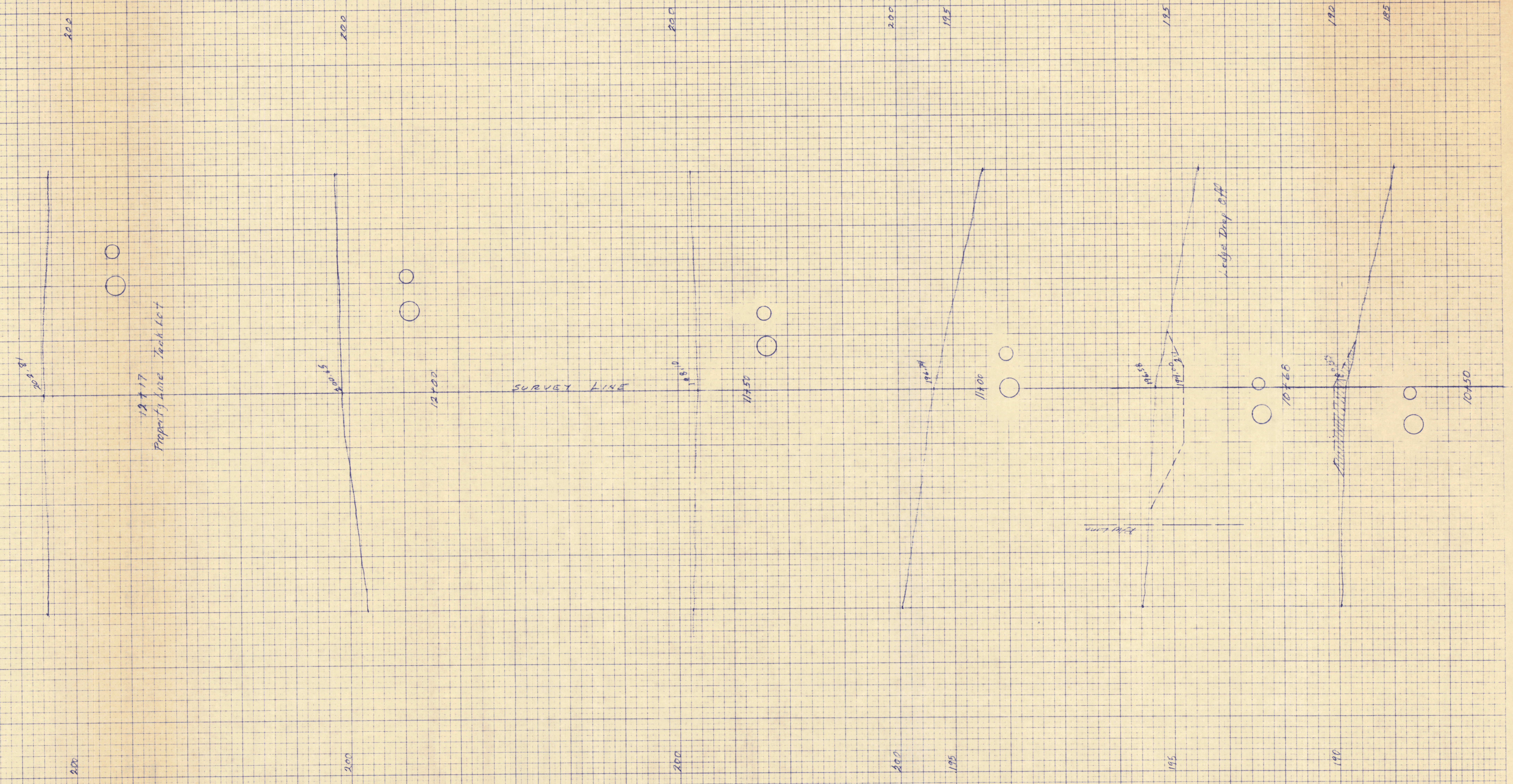

RESERVOIR ELEV. 208'
VALVE VAULT
GRADE LINE
TYPICAL TRENCH SECTION
20" MAIN & 12" HOME DRAIN
CUMBERLAND FORESIDE RESERVOIR
PROFILE ALONG 20" WATER MAIN FROM ROUTE 88 TO THE TANK SITE
PORTLAND WATER DISTRICT
225 DOUGLASS STREET
PORTLAND, MAINE, 04104
DESIGN
DRAWN T. EMERY
CHECK
APPROVED
DATE 5-10-79
STATUS
OF

PLATE 3-LOT CROSS SECTION LAND LINE



CROSS SECTIONS ALONG THE PROPOSED WATER LINE TO CUMBERLAND TANK FROM KT 88
SCALE 1"-5' H & V

5 OF 5



Cross Sections Along the
Proposed Water Line to Cumberland
Tank From Rt. 88
Scale 1"-5' H & V

CROSS SECTIONS ALONG THE PROPOSED WATER LINE TO CUMBERLAND TANK FROM RT. 88
SCALE 1"-5' H & V

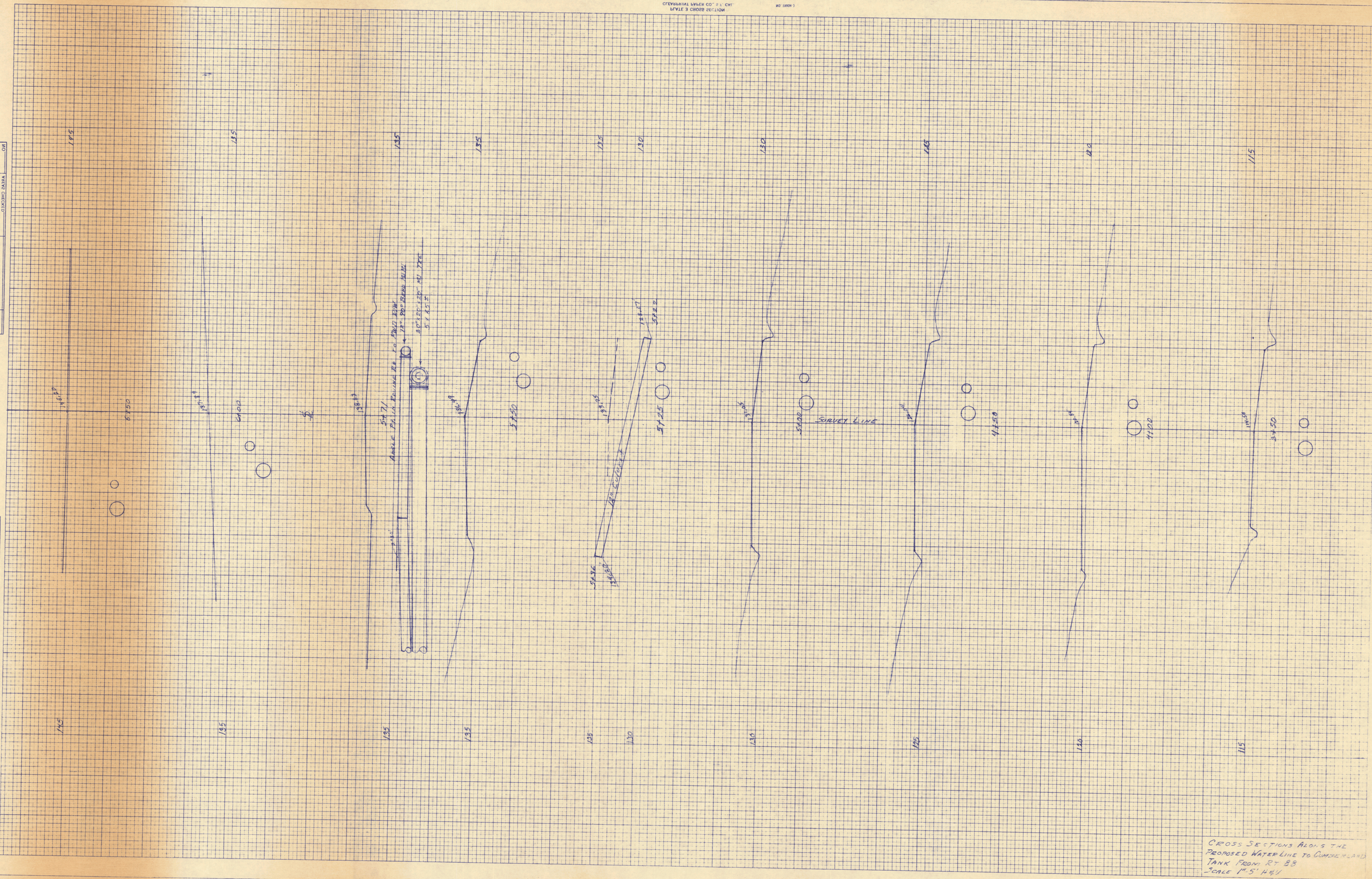
3 OF 5

GRAPHIC PAPER CO., P.O. BOX 1000, OM

LATA & CROSS SECTION

NO	NOTE BOOK	PAGE	CHECKED	DATE	BY

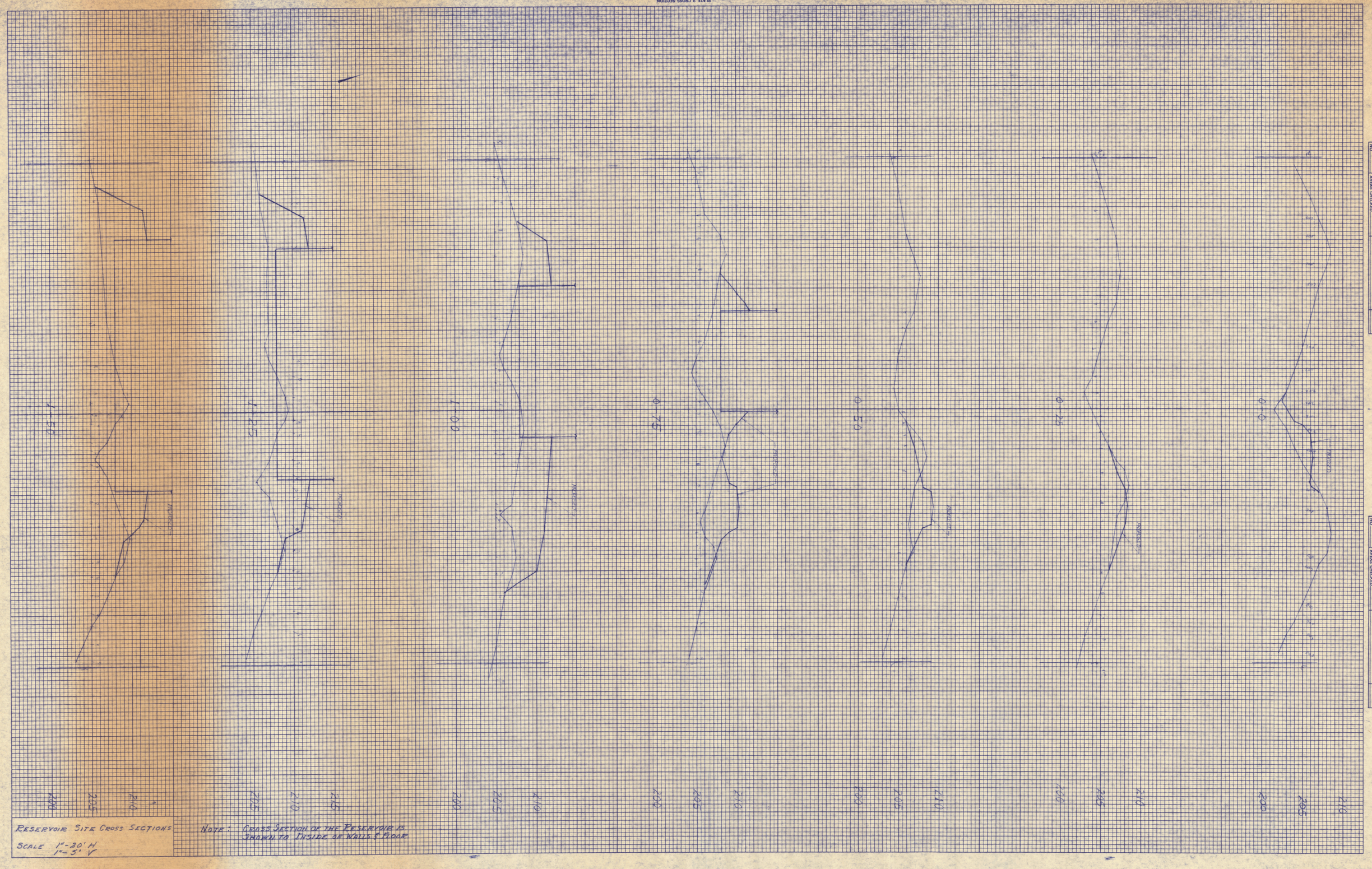
ORIGINAL
SURVEY
PLOTTED
TRACED
STAKED
BASE
CHECKED
DATE



CROSS SECTIONS ALONG THE PROPOSED WATERLINE TO CUMBERLAND TANK FROM RT 88
SCALE 1"=5' H&V

CROSS SECTIONS ALONG THE PROPOSED WATER LINE TO CUMBERLAND TANK FROM RT. 88
SCALE 1"-5' H&V

PLATE 2 CROSS SECTION
CLEARPRINT PAPER CO., S.F. CAL. NO. 1000H-2



ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS CHECKED
BY
DATE

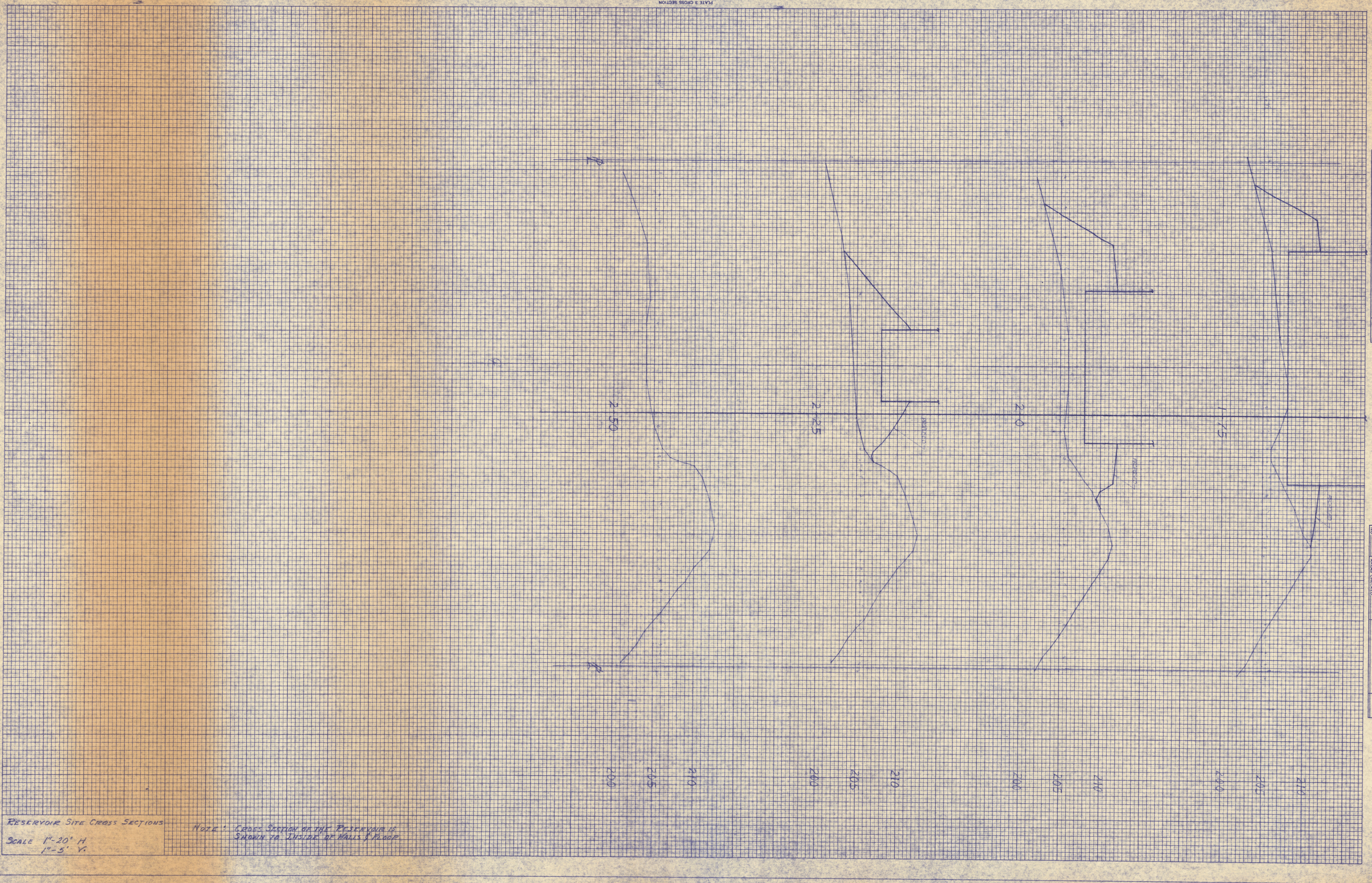
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS CHECKED
BY
DATE

RESERVOIR SITE CROSS SECTIONS
SCALE 1"=20' H
1"=5' V

NOTE: CROSS SECTION OF THE RESERVOIR IS SHOWN TO INSIDE OF WALLS & FLOOR

PLATE 3 CROSS SECTION

CLEARPRINT PAPER CO., S.F., CAL. NO. 1008-3



ORIGINAL SURVEY

NOTE BOOK	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY

NOTE BOOK	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

RESERVOIR SITE CROSS SECTIONS

SCALE 1"-20' H
1"-5' V.

NOTE: CROSS SECTION OF THE RESERVOIR IS SHOWN TO INSIDE OF WALLS & FLOOR