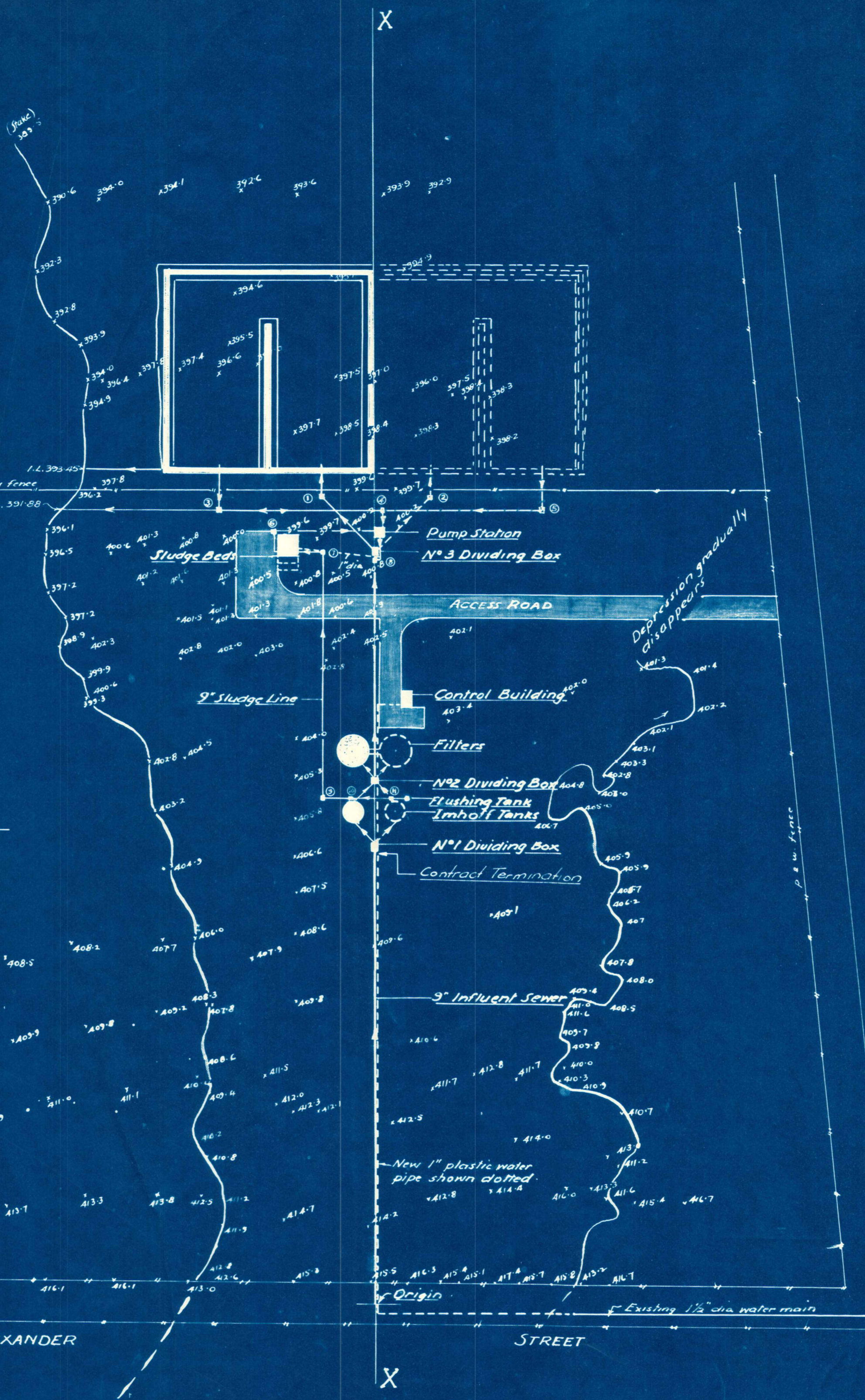
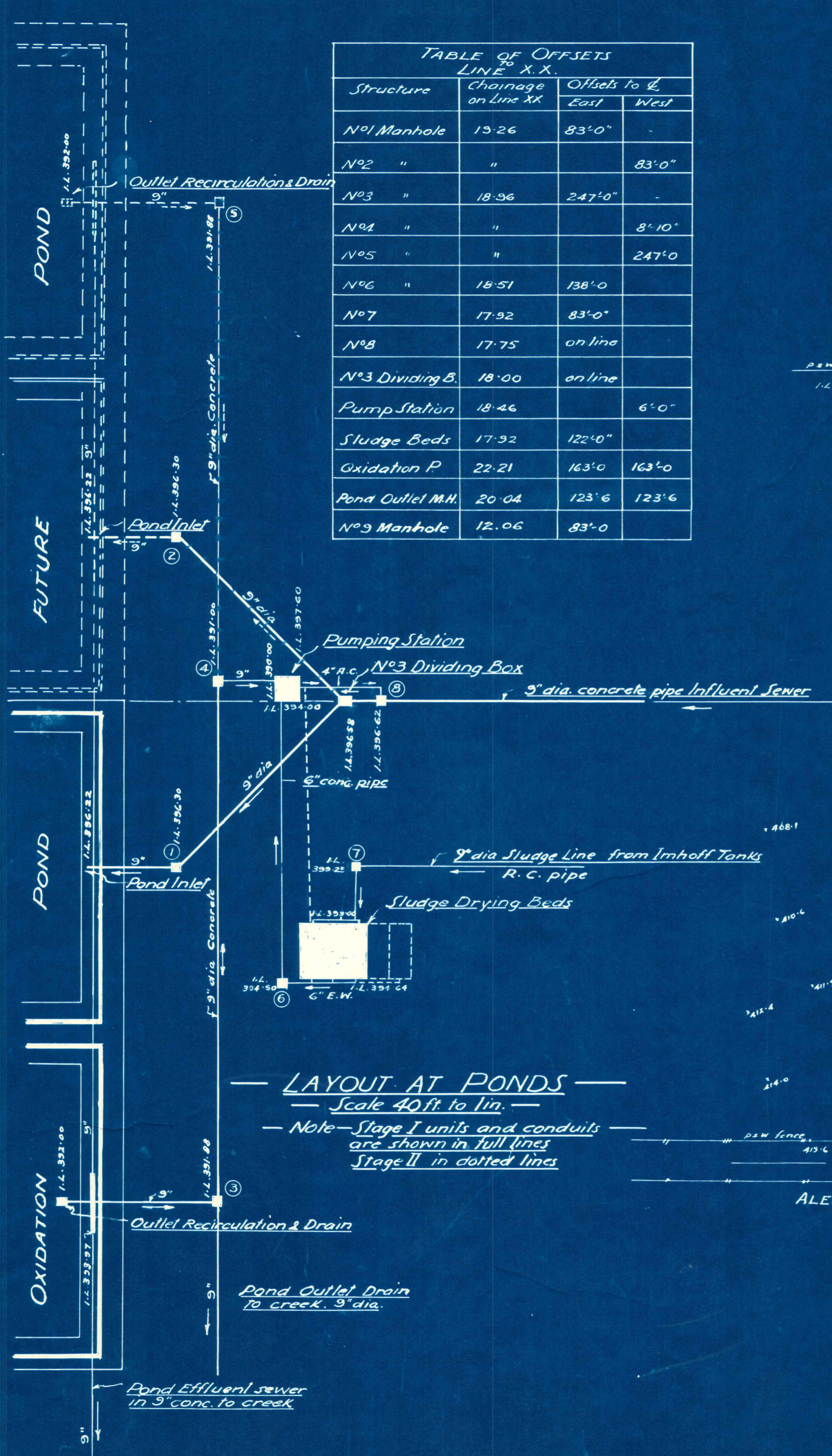


TABLE OF OFFSETS
LINE X-X.

Structure	Chainage on Line X-X	Offsets to &	
		East	West
Nº1 Manhole	15.26	83'-0"	
Nº2 "	"		83'-0"
Nº3 "	18.96	247'-0"	
Nº4 "	"		8'-10"
Nº5 "	"		247'-0"
Nº6 "	18.51	138'-0"	
Nº7 "	17.92	83'-0"	
Nº8 "	17.75	on line	
Nº3 Dividing B.	18.00	on line	
Pump Station	18.46		6'-0"
Sludge Beds	17.92	122'-0"	
Oxidation P.	22.21	163'-0"	163'-0"
Pond Outlet M.H.	20.04	123'-6"	123'-6"
Nº3 Manhole	12.06	83'-0"	

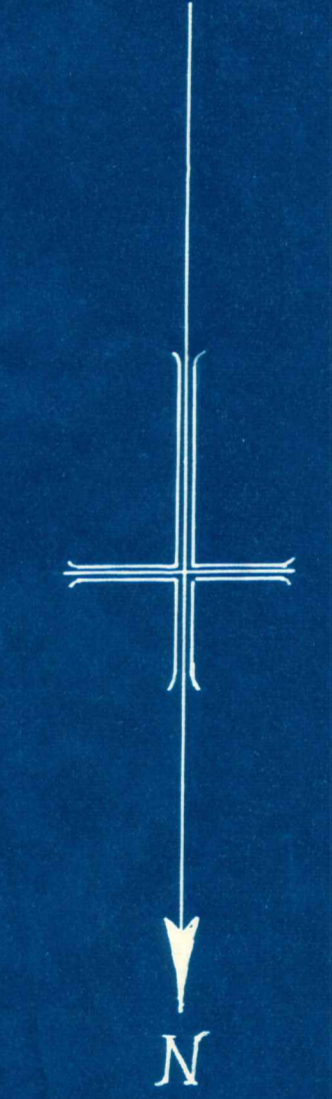
TABLE OF OFFSETS
LINE X-X.

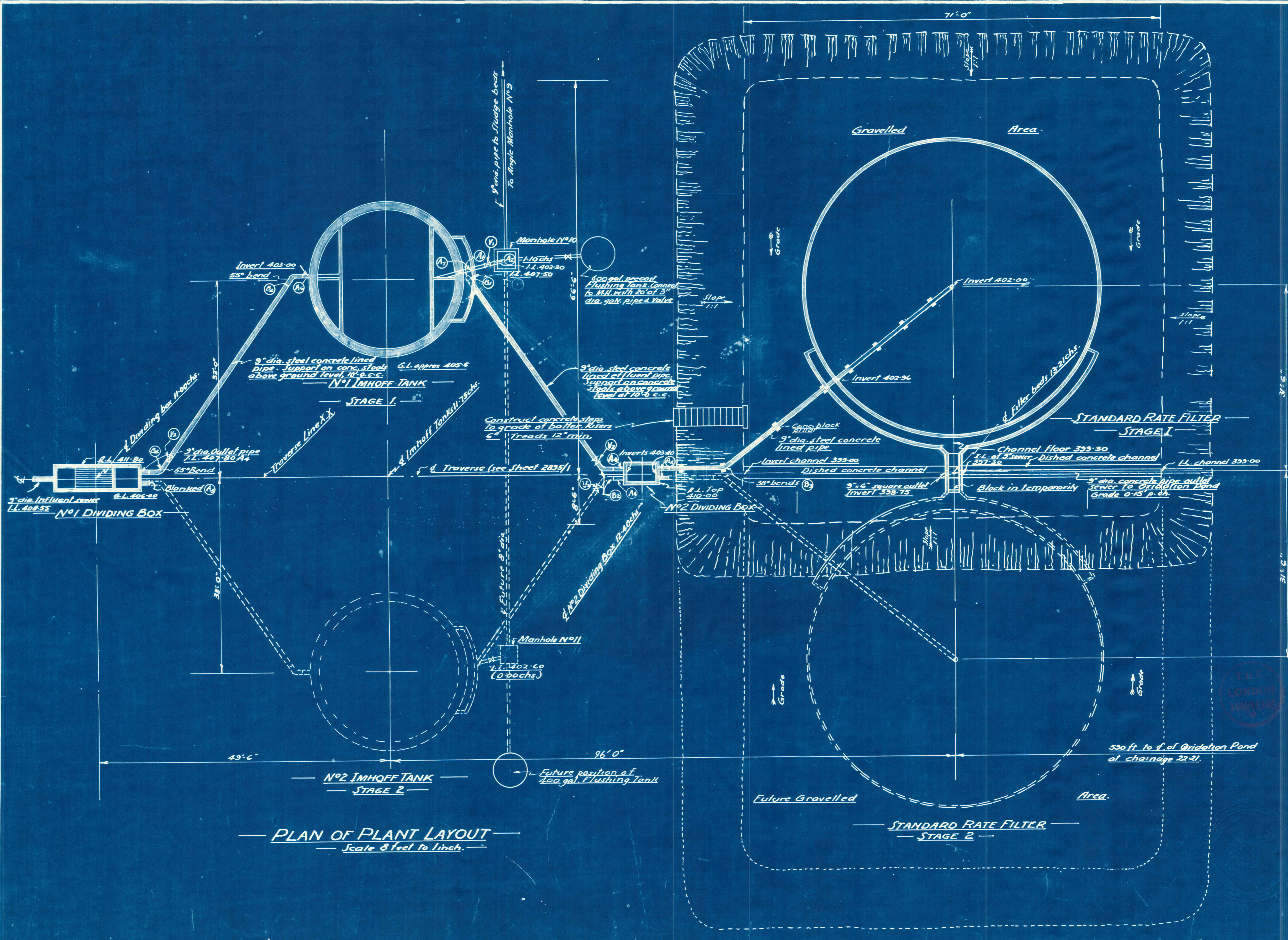
Structure	Chainage on Line X-X	Offsets to &	
		East	West
Alexander St &	0 (origin)		
Nº1 Dividing Box	11.00	on	line
Imhoff Tanks	11.75	33'-0"	33'-0"
Nº5 & 1.10 M.H.s.	12.06	36'-0"	30'-6"
Nº2 Dividing Box	12.40	on	line
Filters	13.21	31'-6"	31'-6"
Nº3 Dividing Box	18.00	on	line



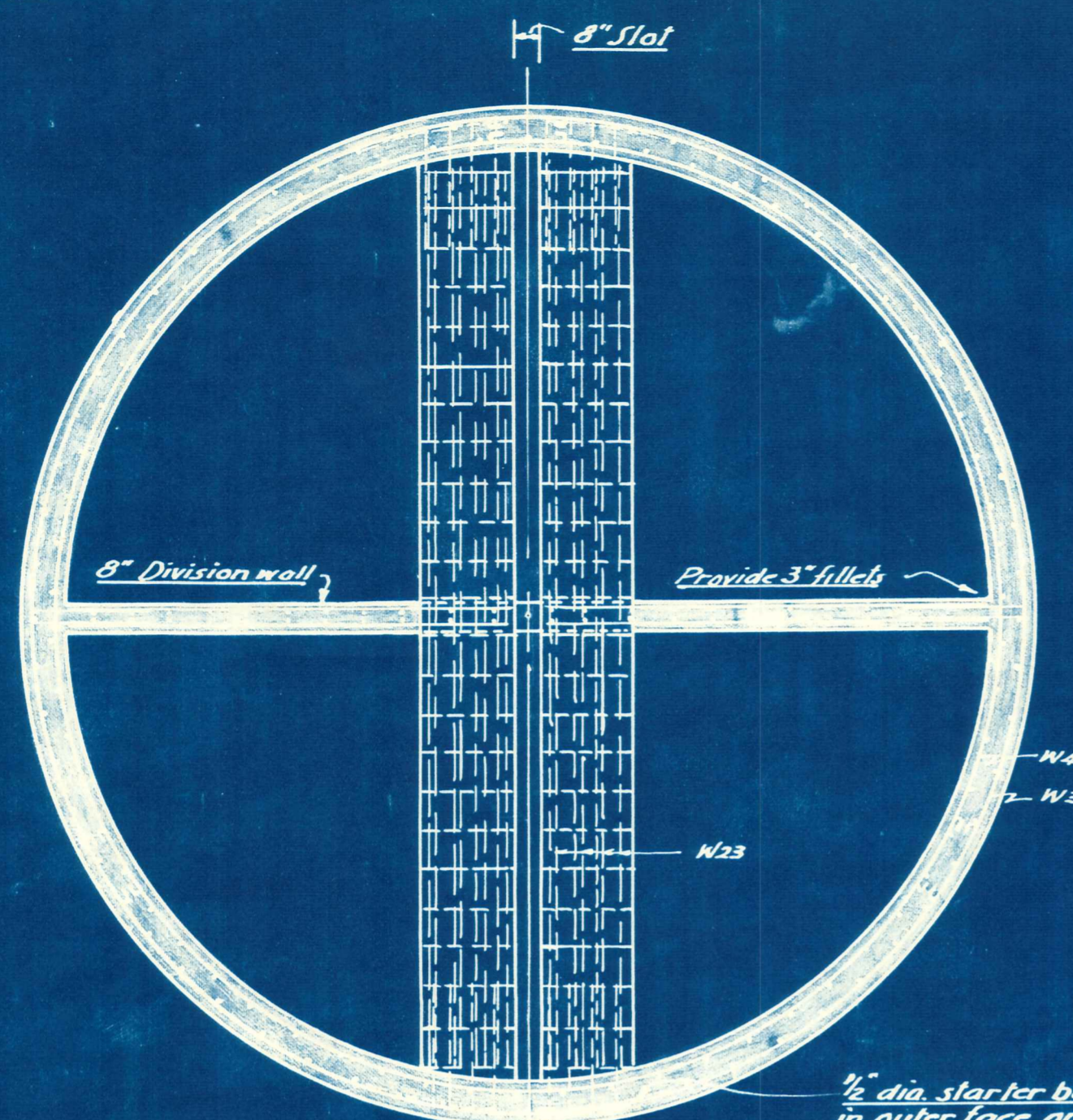
LAYOUT AT PONDS
Scale 40ft. to lin.
Note—Stage I units and conduits
are shown in full lines
Stage II in dotted lines

GENERAL SITE PLAN
Scale 2chs. to lin.
Stage I units shown blocked in
Stage II units shown dotted





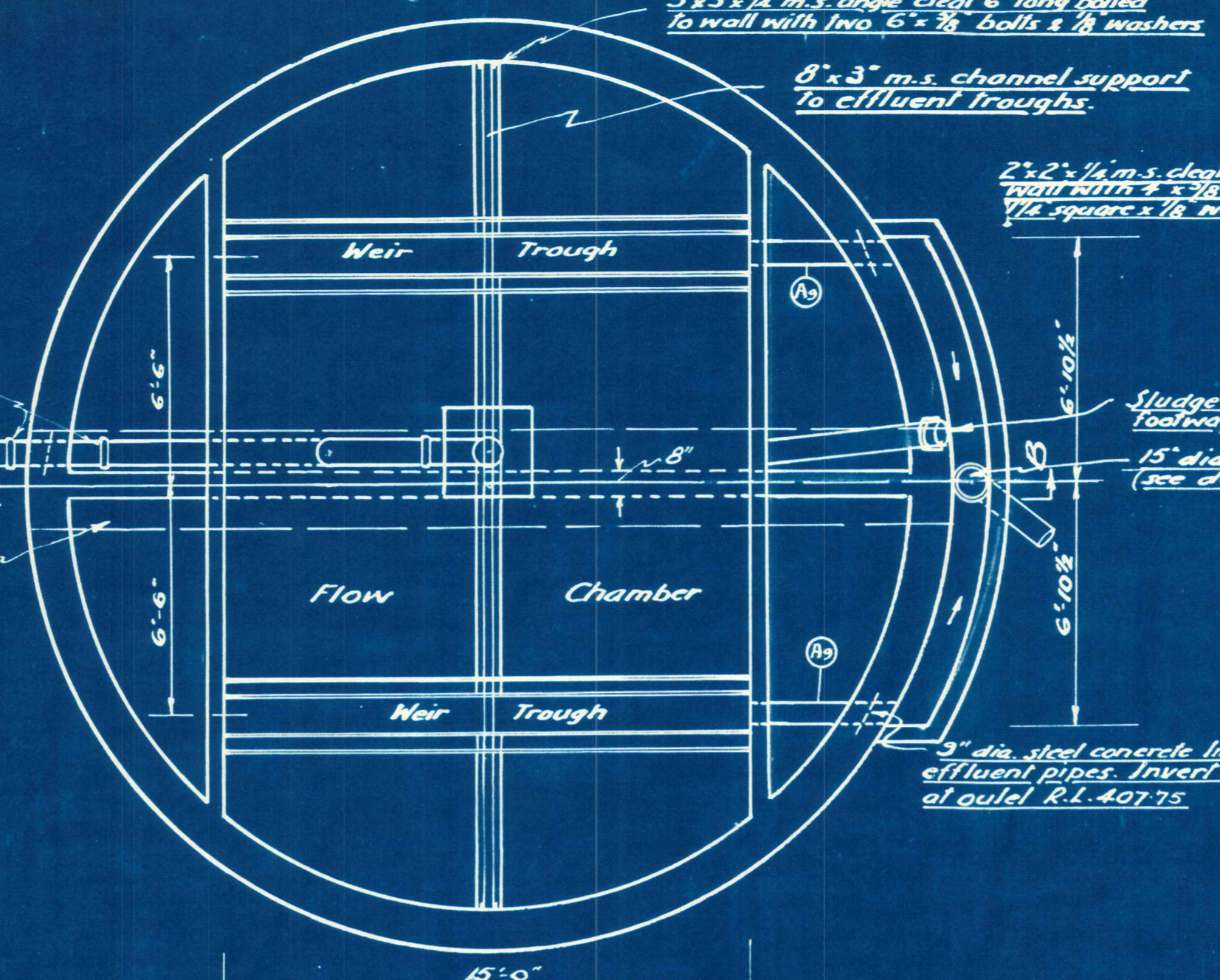
PLAN OF PLANT LAYOUT
Scale 8 feet to 1 inch.



SECTION ON AA.

Flexible joints
9" steel concrete lined influent pipes
Invert 4.03.00

1/2" dia. starter bars at 12" c.c. in outer face only. W20



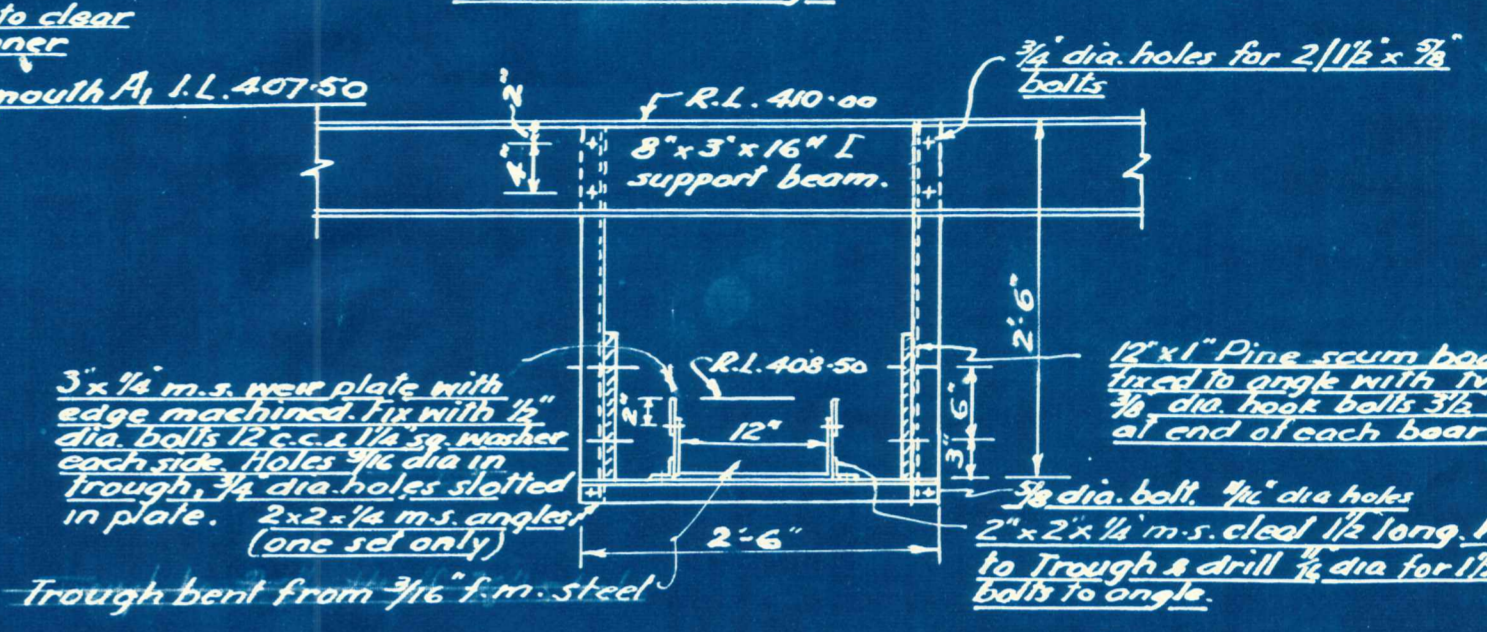
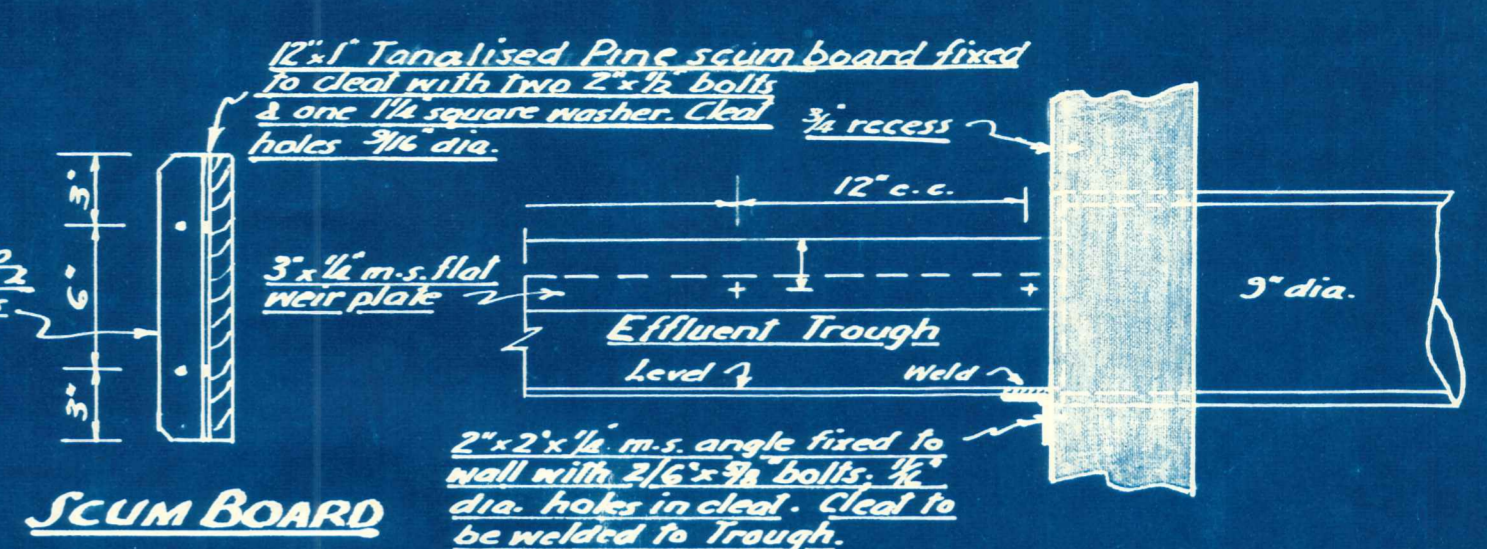
PLAN OF TANK
(Footway not shown)

3" x 3" x 1/4" m.s. angle cleat 6" long bolted to wall with two 6" x 3/8" bolts & 1/4" washers
8" x 3" m.s. channel support to influent troughs
2" x 2" x 1/4" m.s. cleat. Fix to wall with 2" x 3/8" bolts & 1/4" squares x 1/8" washers

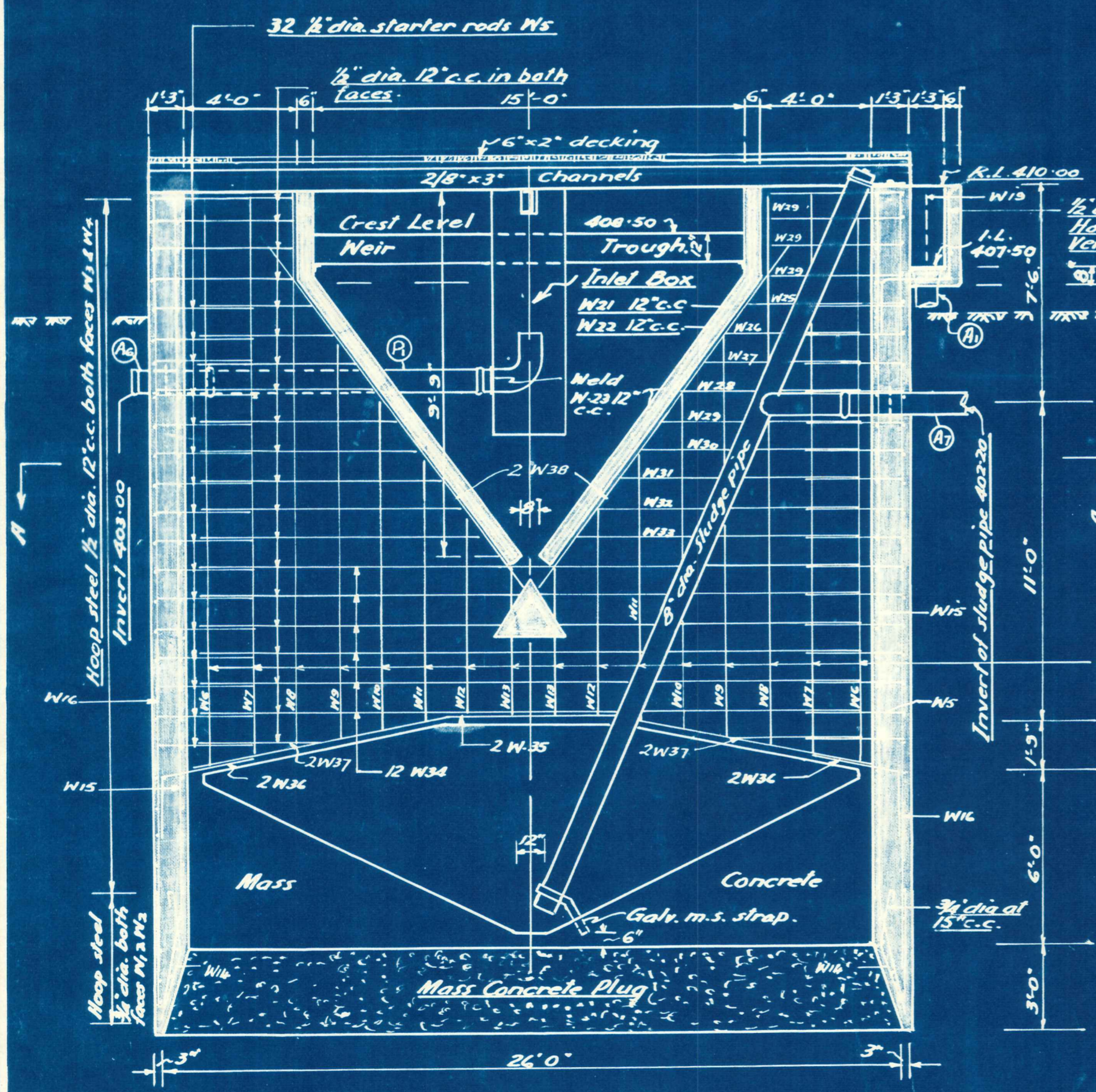
Sludge pipe to clear footway runner
15" dia bellmouth A, I.L. 4.07.50 (see detail)

3" dia. steel concrete lined effluent pipes. Invert level at outlet R.L. 4.07.75

SCUM BOARD

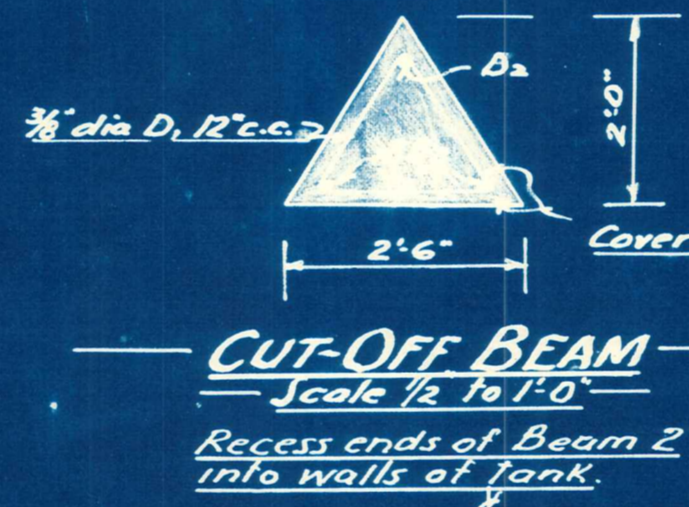


DETAIL OF EFFLUENT WEIR TROUGH
— Scale 3/4" & 1 1/2" to 1'-0" —



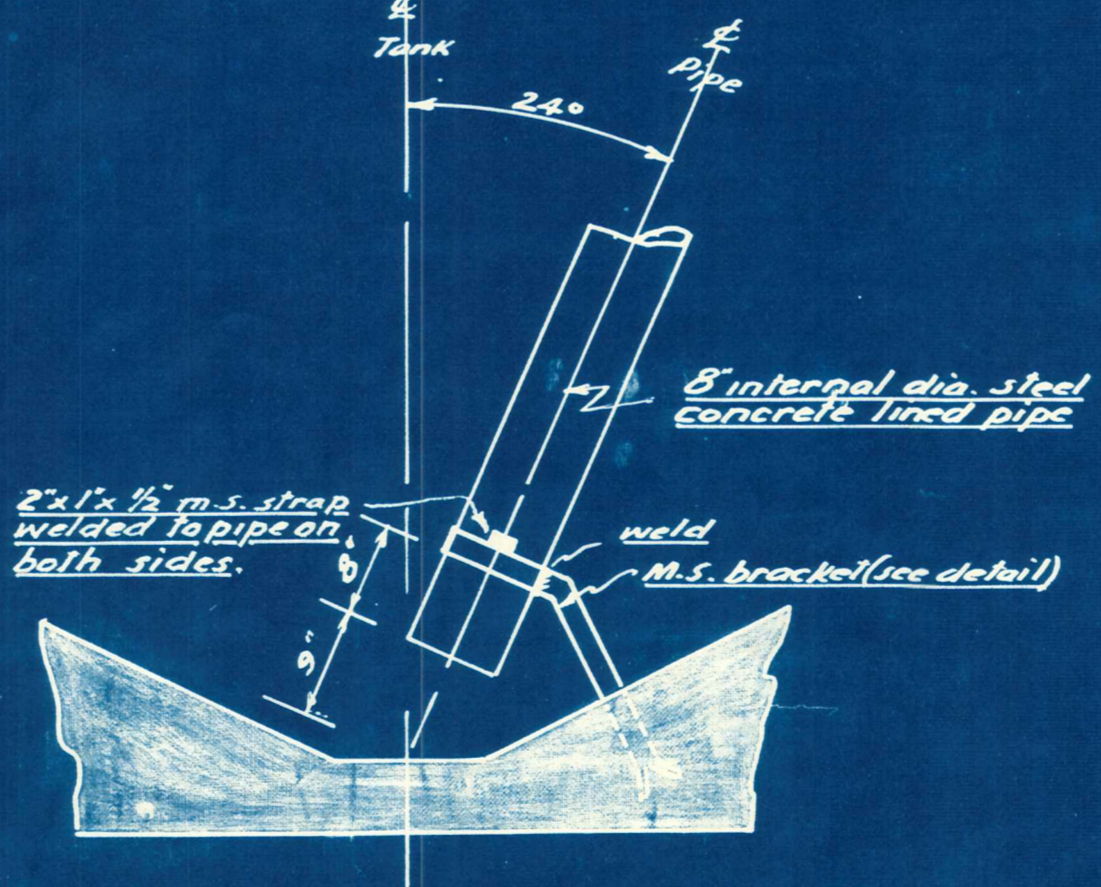
SECTION ON B.B.

Scale 1/4" in to 1 ft.



CUT-OFF BEAM
Scale 1/2" to 1'-0"

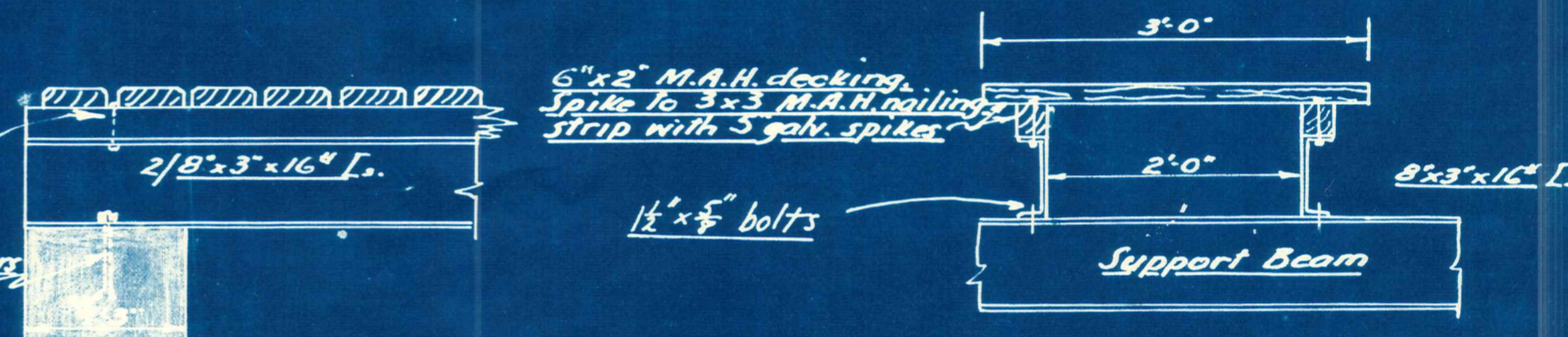
Recess ends of Beam 2" into walls of tank.



DETAIL AT BOTTOM

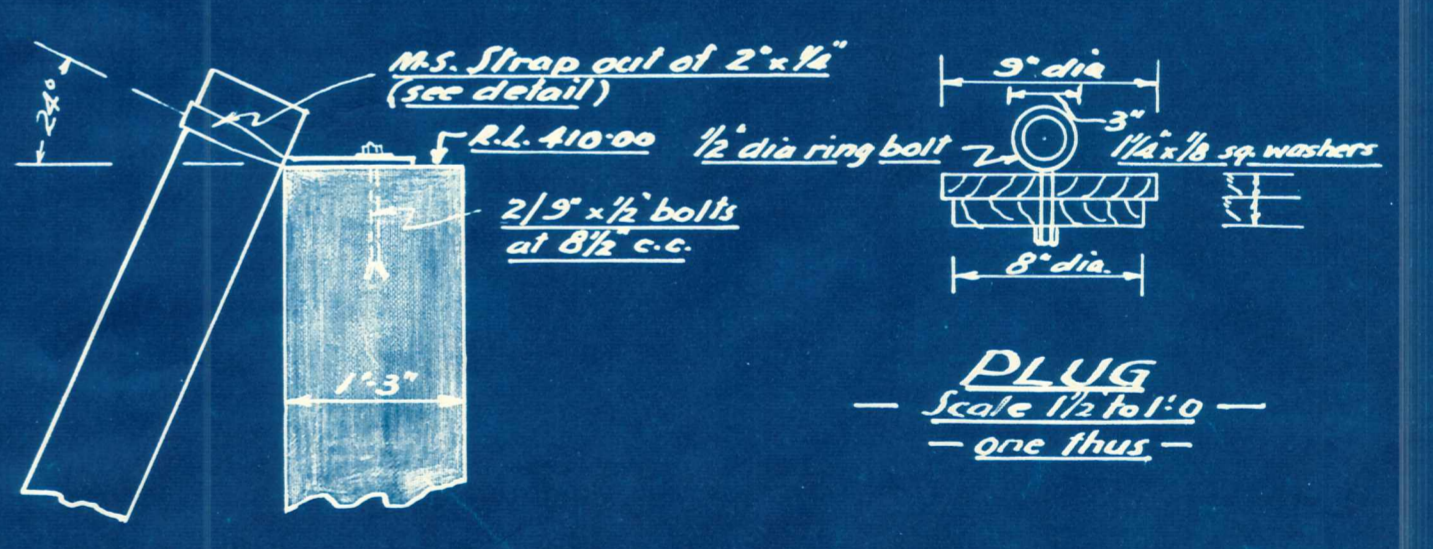
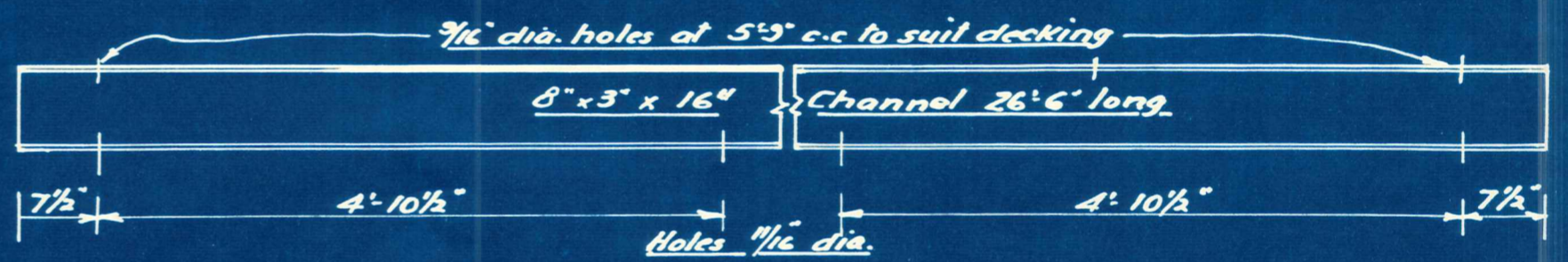
DETAILS OF SLUDGE PIPE FIXING

Scale 3/4" to 1'-0"

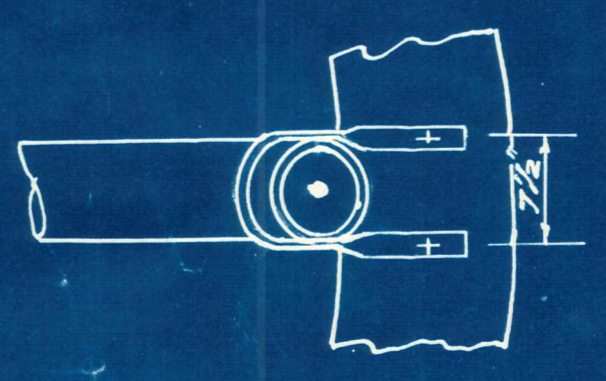


FOOTWAY DETAILS

Scale 3/4" to 1'-0"

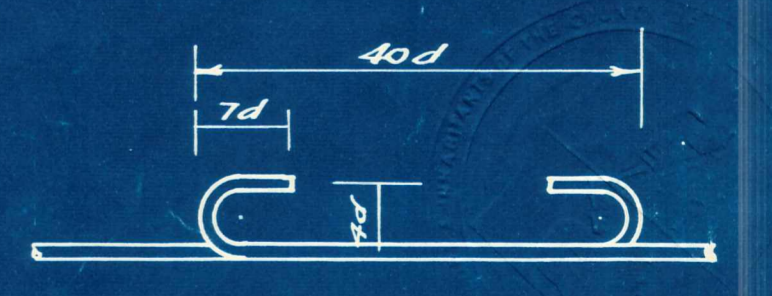


ELEVATION



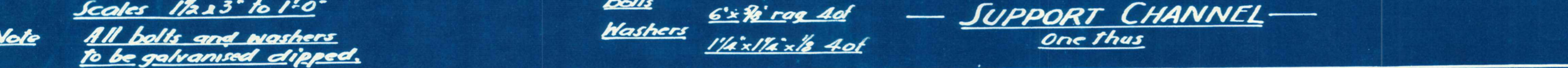
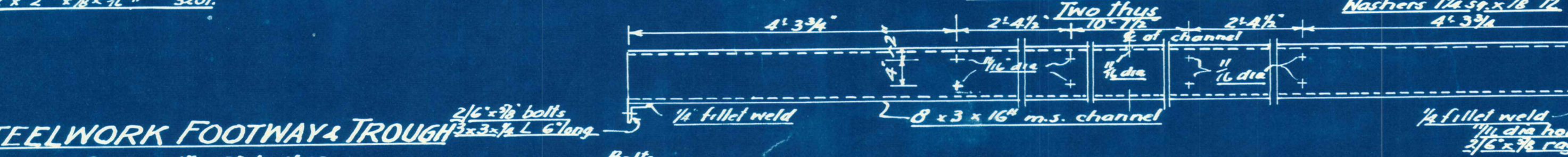
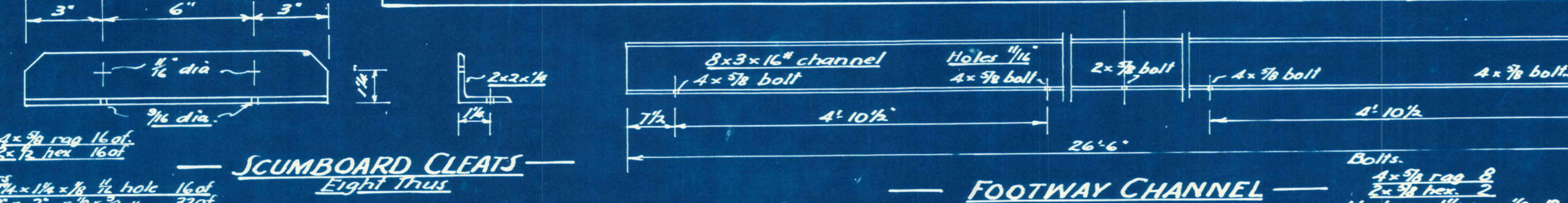
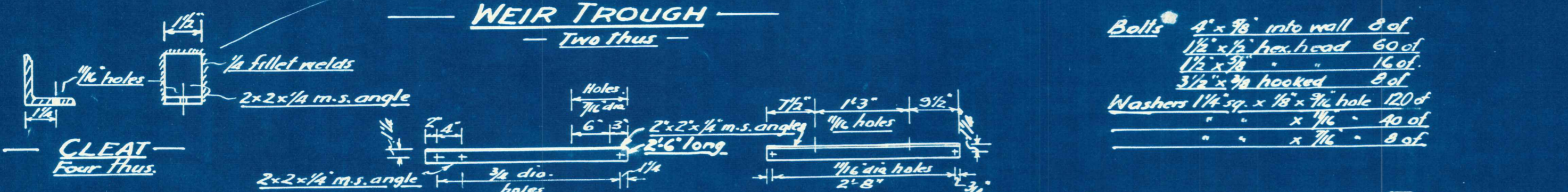
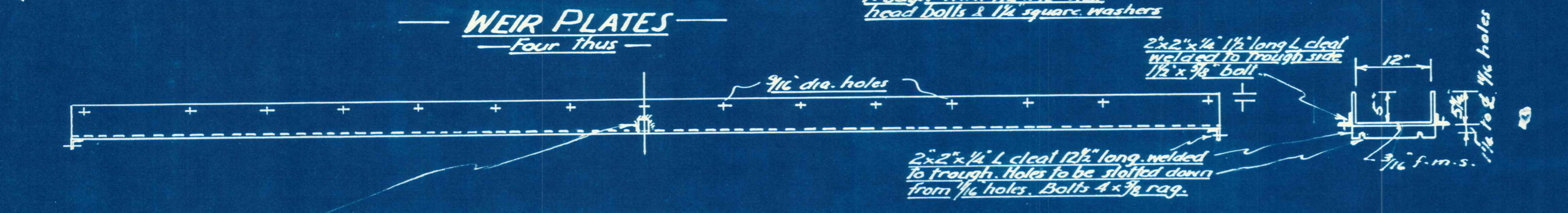
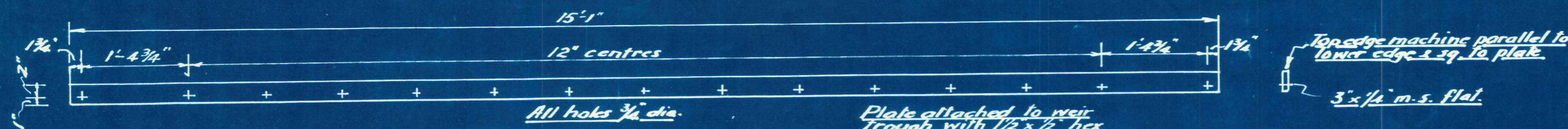
PLAN

DETAIL AT TOP

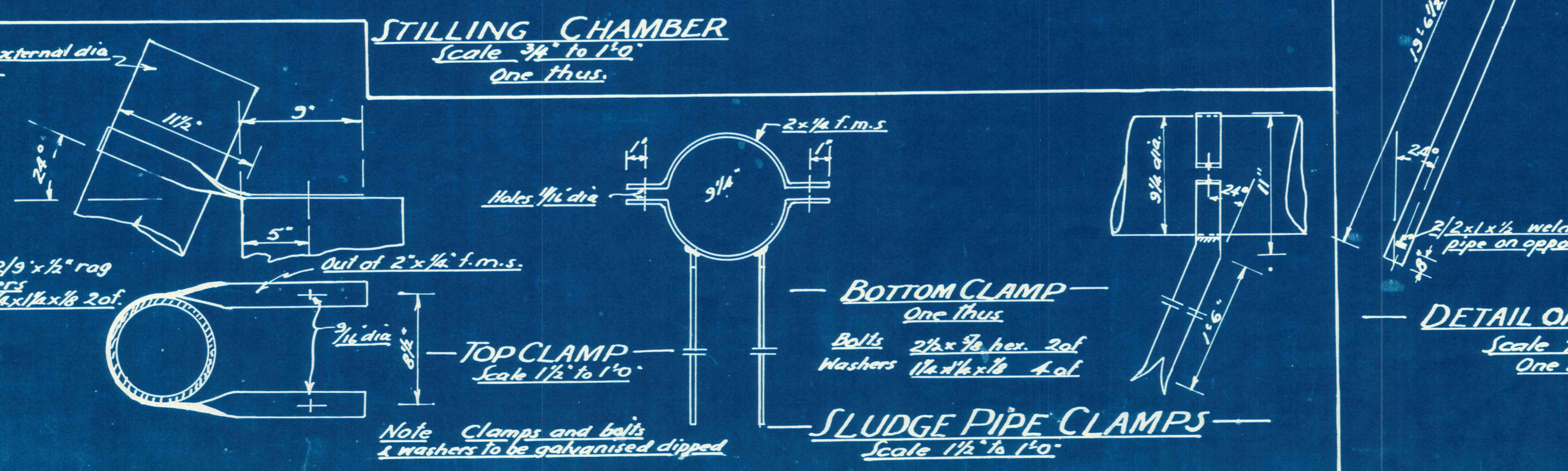
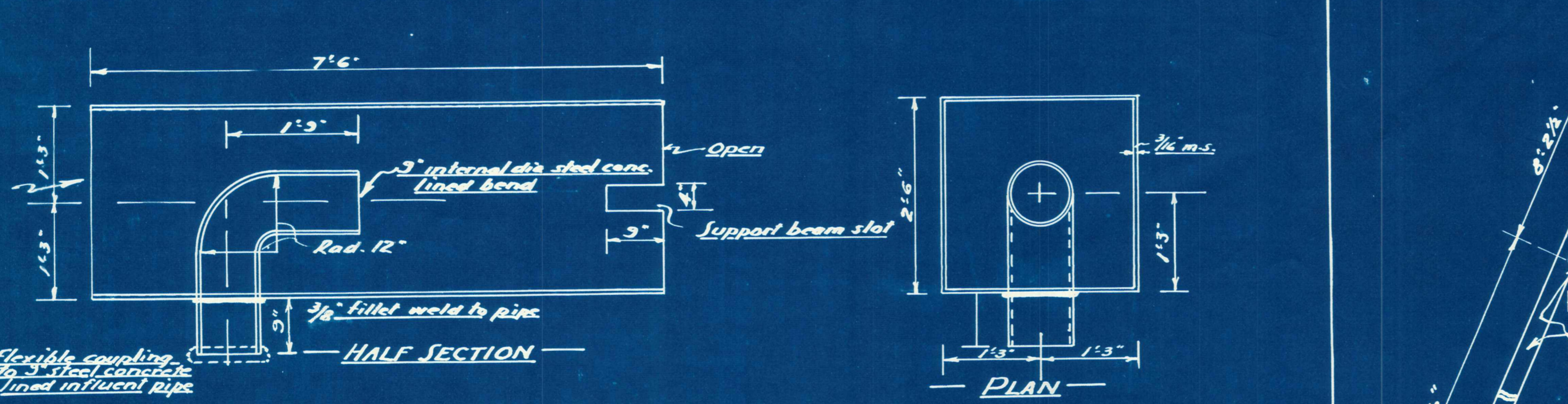


TYPICAL HOOK & LAP

— Not to scale —

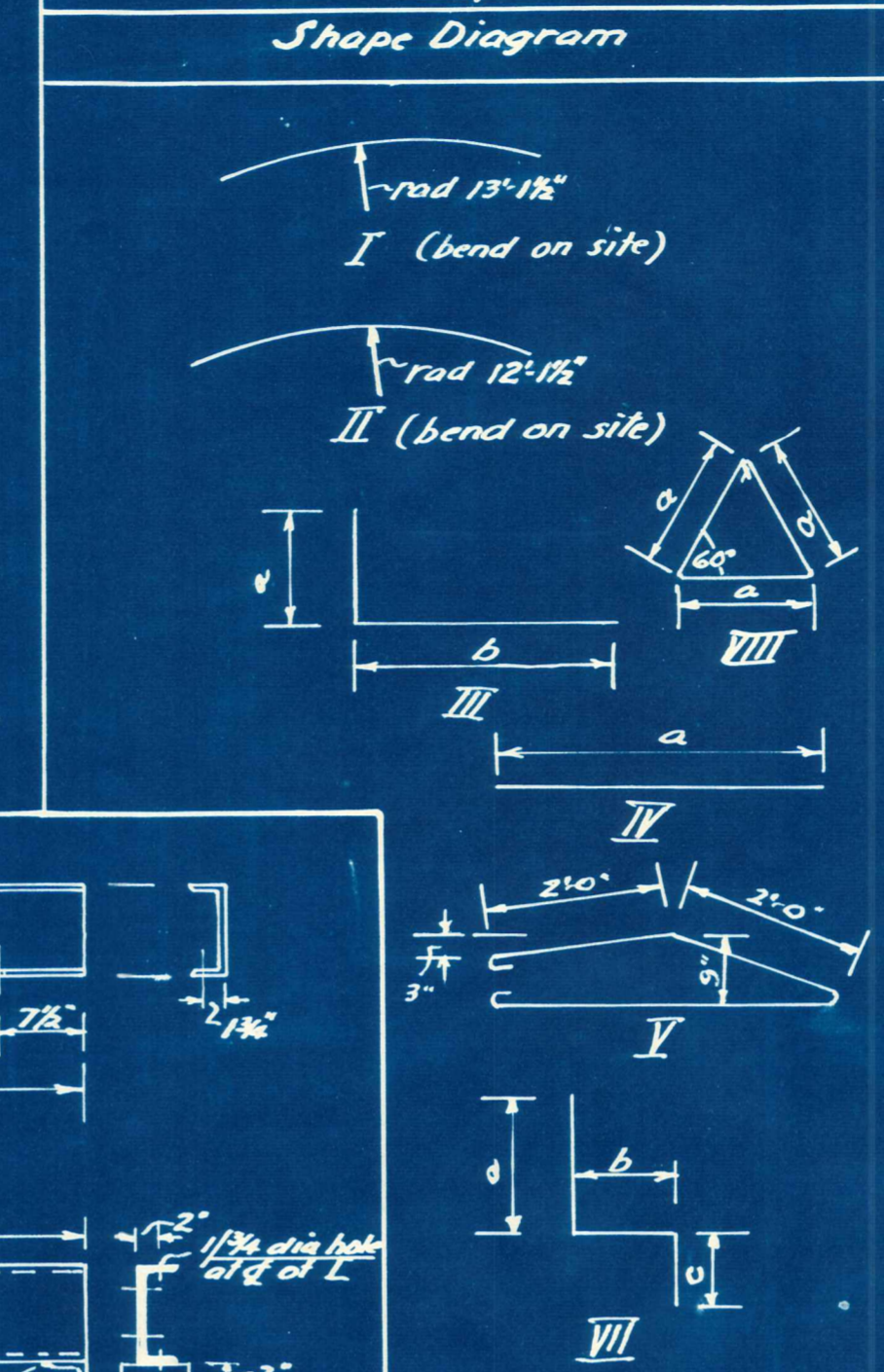


Note All bolts and washers to be galvanised dipped.

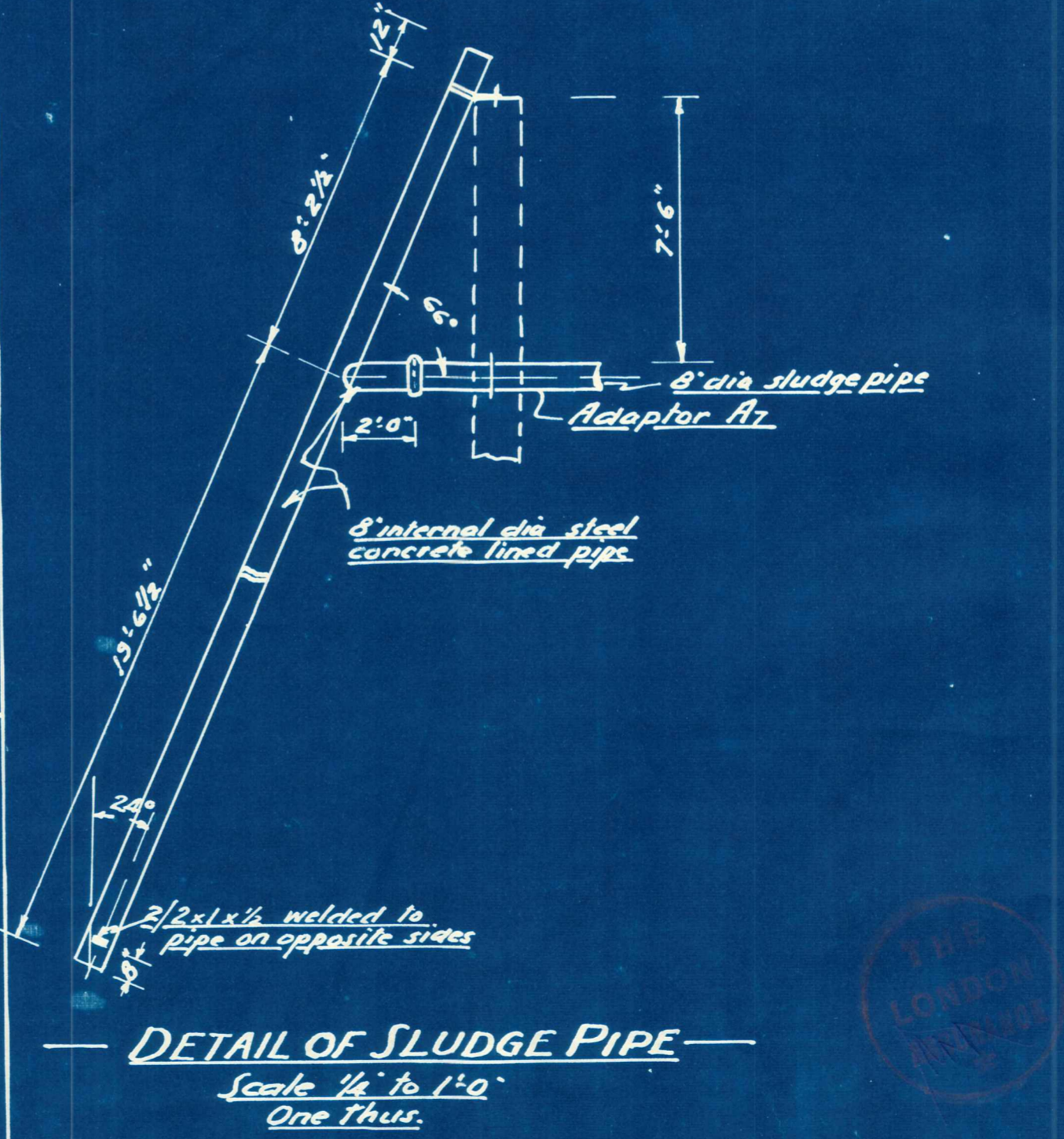


REINFORCING SCHEDULE

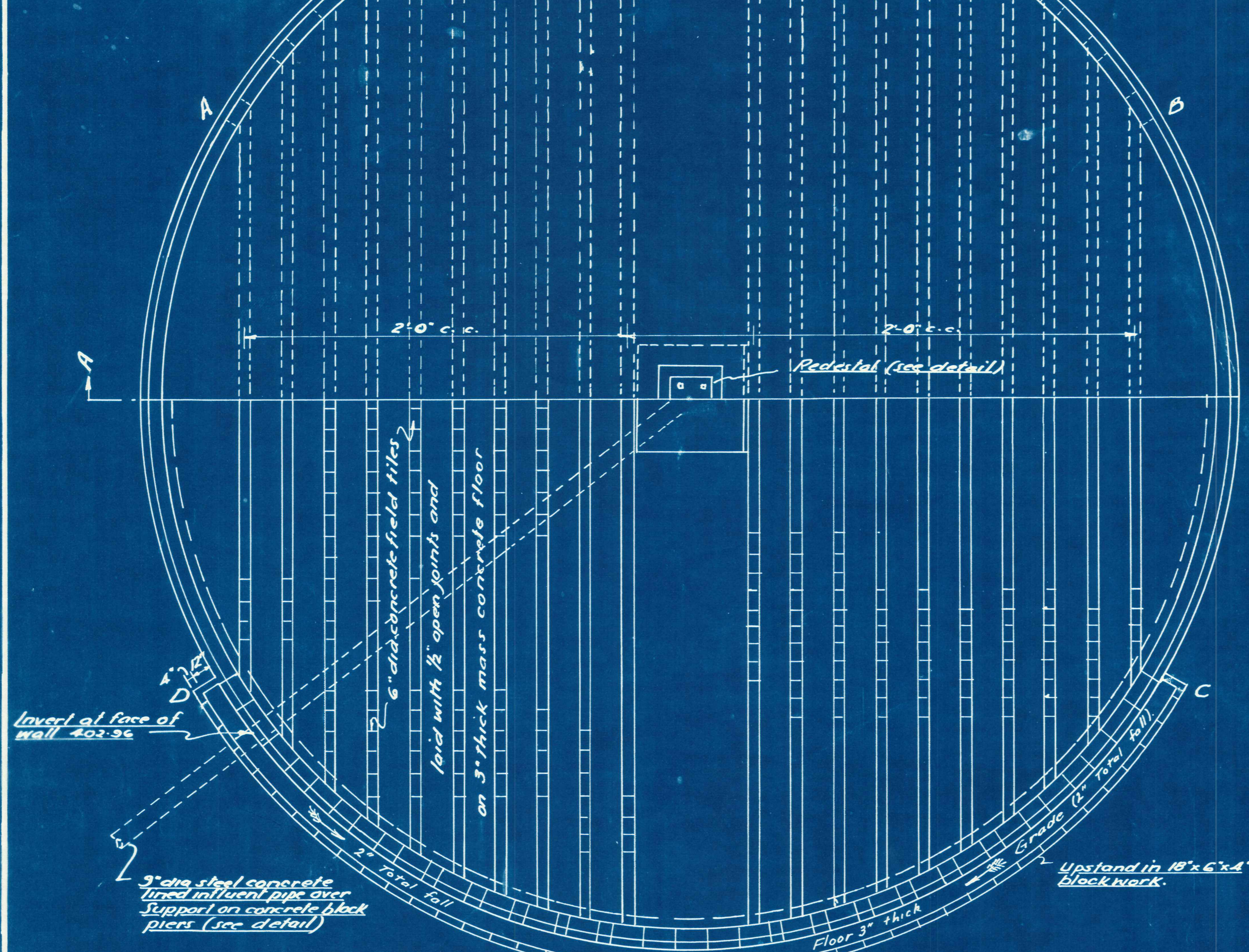
Mark	Location	Dia.	Shape	No off	Cut Length	Dimensions a b c
W1	Walk (outer)	3/4	I	15	30'-9"	- - -
W2	" (inner)	"	II	12	28'-6"	- - -
W3	" (outer)	3/8	I	72	30'-9"	- - -
W4	" (inner)	"	II	72	28'-6"	- - -
N5	Walls	1/2	III	64	5'-0"	1'-9" 3'-3" -
W6	Crosswall	"	IV	4	19'-6"	19'-6" - -
W7	"	"	"	4	13'-3"	19'-3" - -
W8	"	"	"	4	13'-0"	19'-0" - -
W9	"	1/2	"	4	13'-9"	13'-9" - -
W10	"	"	"	4	11'-6"	11'-6" - -
W11	"	"	"	4	9'-0"	9'-0" - -
W12	"	"	"	4	6'-9"	6'-9" - -
N13	"	"	"	4	5'-3"	5'-3" - -
W14	Cutting edge	3/4	V	62	9'-3"	- - -
N15	Walk (inner)	3/8	IV	62	28'-6"	28'-6" - -
W16	" (outer)	"	"	62	27'-0"	27'-0" - -
W17	Outlet	1/2	III	4	17'-9"	2'-9" 15'-0" -
W18	"	"	VII	16	6'-11"	3'-0" 2'-3" 1'-9" -
W19	"	"	III	2	4'-8"	3'-0" 1'-9" -
W20	Flow Cham.	"	III	60	5'-0"	1'-9" 3'-3" -
W21	"	"	IV	48	15'-0"	15'-0" - -
W22	"	"	"	48	15'-0"	15'-0" - -
W23	"	"	IV	62	22'-6"	22'-6" - -
W24	Crosswall	"	"	16	4'-9"	4'-9" - -
W25	"	"	"	4	4'-0"	4'-0" - -
W26	"	"	"	4	4'-6"	4'-6" - -
W27	"	"	"	4	5'-3"	5'-3" - -
W28	"	"	"	4	6'-0"	6'-0" - -
W29	"	"	"	4	6'-9"	6'-9" - -
W30	"	"	"	4	7'-6"	7'-6" - -
W31	"	"	"	4	8'-3"	8'-3" - -
W32	"	"	"	4	9'-0"	9'-0" - -
W33	"	"	"	4	9'-9"	9'-9" - -
W34	"	"	"	12	23'-0"	23'-0" - -
N35	"	1"	"	2	24'-0"	24'-0" bend on site
W36	"	3/8	III	4	5'-6"	3'-3" 2'-3" -
D1	Δ Beam	3/8	VIII	25	5'-10"	1'-9" 1'-9" 1'-9" -
D2	"	1/2	IV	1	24'-2"	24'-2" - -
D3	"	1"	IV	3	24'-2"	24'-2" - -
W37	Crosswall	1/2	IV	4	4'-3"	4'-3" - -
W38	"	"	"	4	14'-9"	14'-9" - -



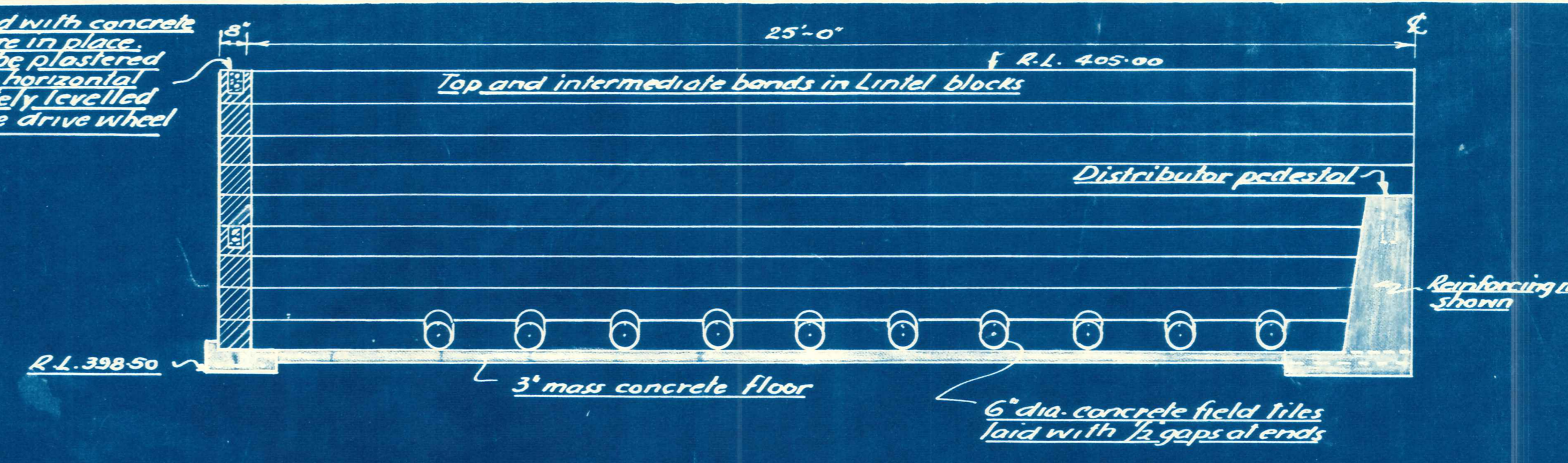
Note No hooks except type I Steel to be bent on a mandrel at least 3d.



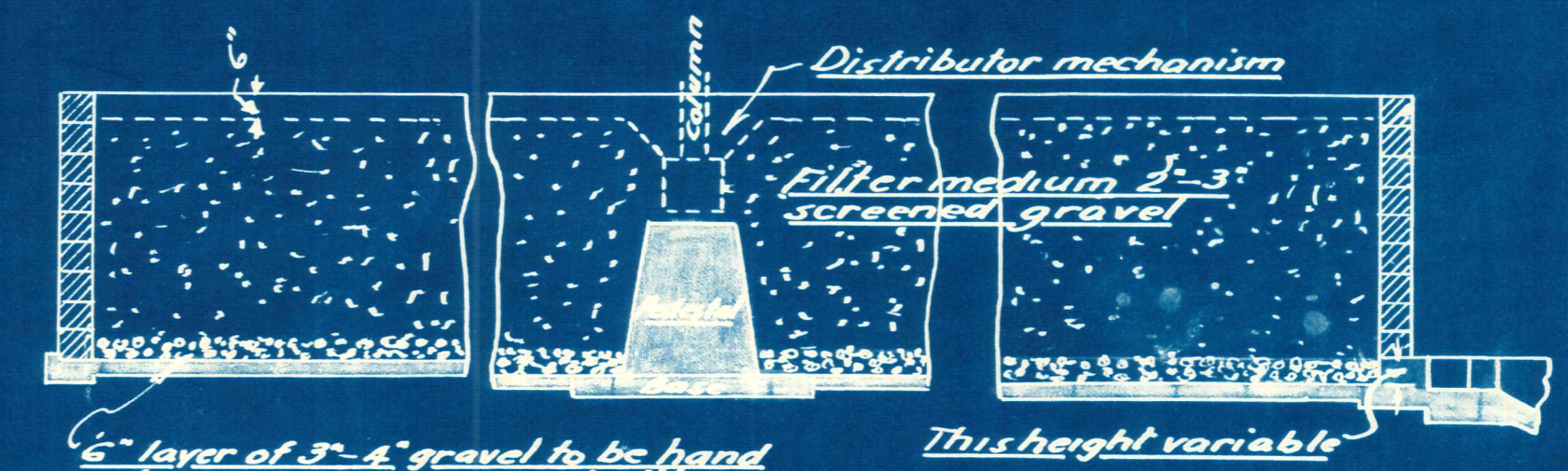
HALF PLAN OF FILTER
Scale 1/4" to 1'-0"



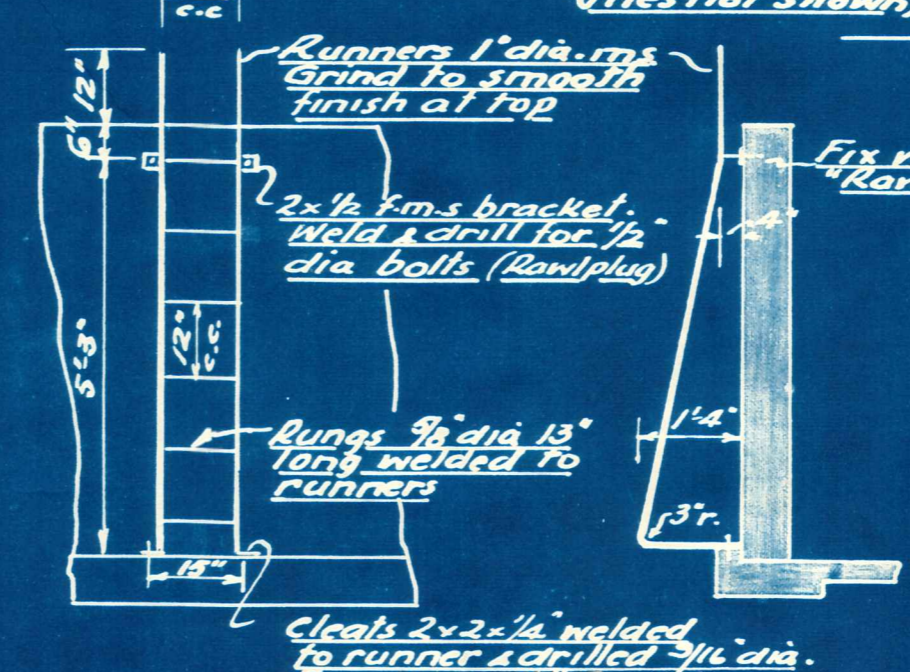
Cavity to be filled with concrete when rods are in place. Top of wall to be plastered to give smooth horizontal surface accurately levelled to take turbine drive wheel



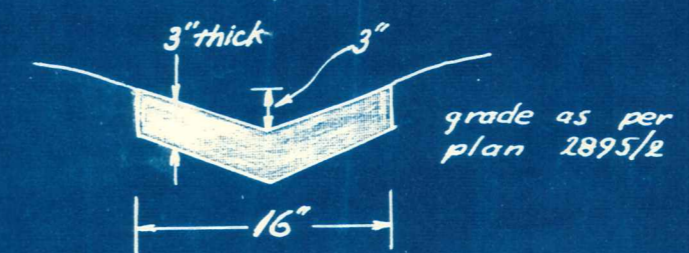
HALF SECTION ON A.A.
Scale 3/8" to 1'-0"



SECTION OF FILTER



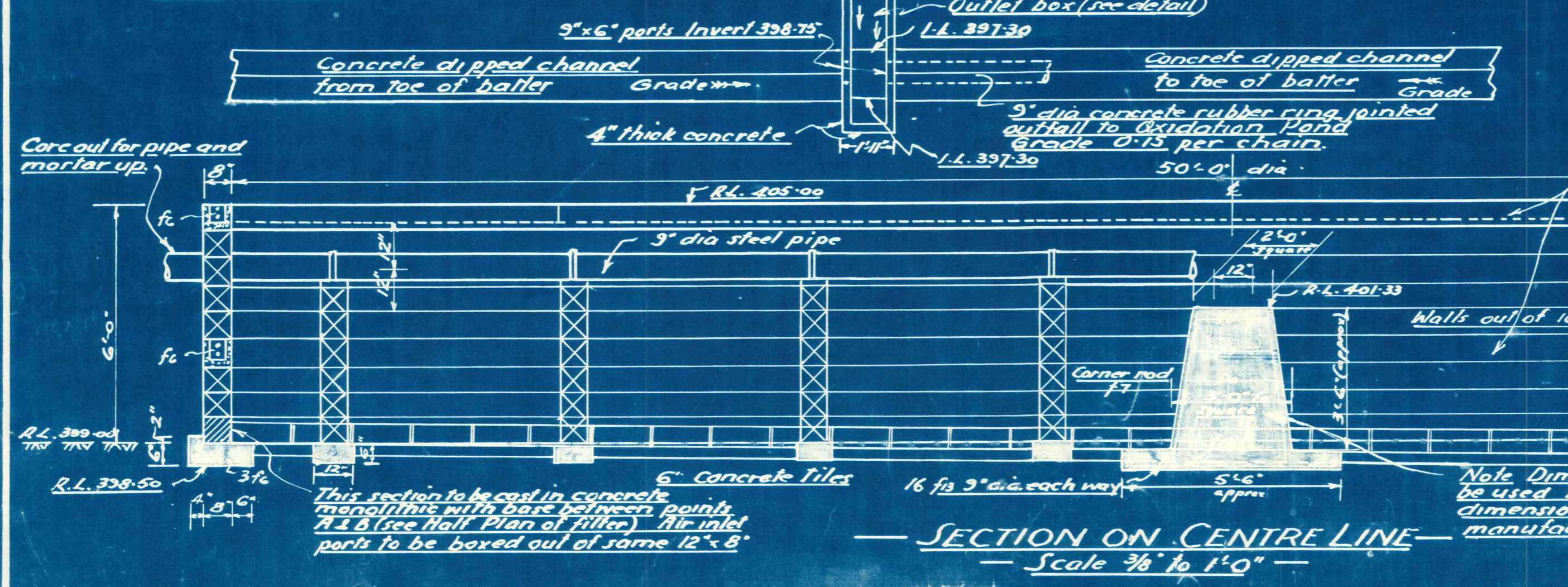
ACCESS LADDER DETAIL
One Thus



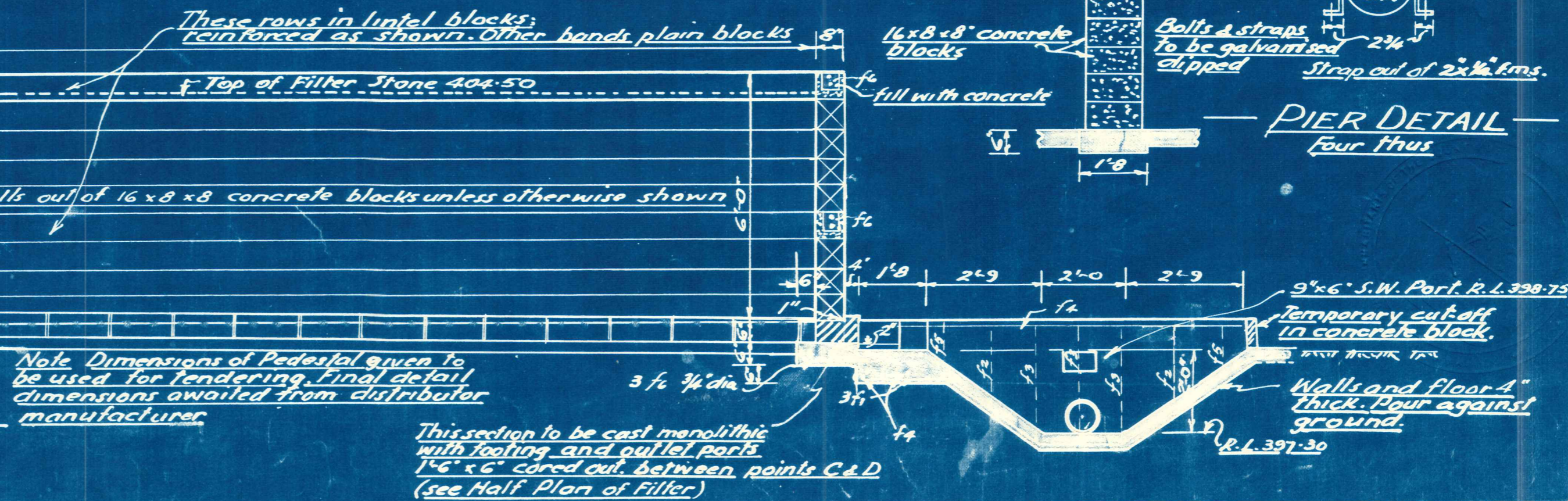
DETAIL OF DISHED CHANNEL TO DRAIN FILTER EXCAVATION.
SCALE: 1 in to 1 ft.

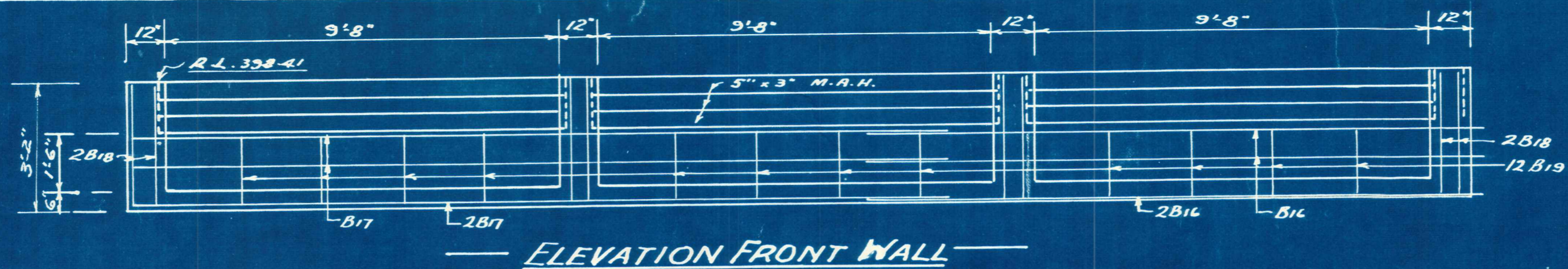
STEEL LIST					
Rad	Dia	Type	No	Cut Length	a b
f1	3/8"	I	3	12'-6"	
f2	3/8"	II	2	5'-8"	1'8" 2'-0"
f3	"	"	3	7'-2"	1'8" 2'-9"
f4	"	III	2	6'-6"	6'-6"
f5	"	II	2	2'-11"	1'8" 1'3"
f6	3/4"	III	56	23'-0"	23'-0"
f7	3/8"	IV	4	4'-9"	3'-9"
f8	3/8"	V	1	8'-1"	1'0" 1'10"
f9	"	"	1	8'-8"	2'-0" 2'-0"
f10	"	"	1	9'-6"	2'-2 1/2" 2'-2 1/2"
f11	"	"	1	10'-6"	2'-5 1/2" 2'-5 1/2"
f12	"	"	1	11'-4"	2'-8" 2'-8"
f13	3/8"	IV	16	5'-9"	5'-0"

HALF SECTION OF BED
Scale 1/4" to 1'-0"

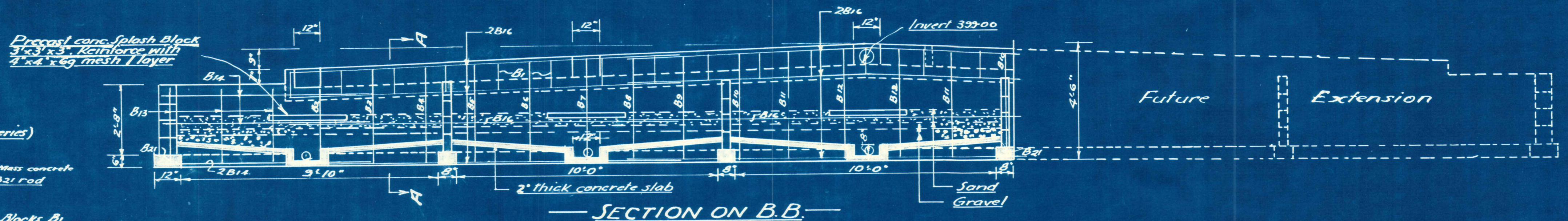


SECTION ON CENTRE LINE
Scale 3/8" to 1'-0"

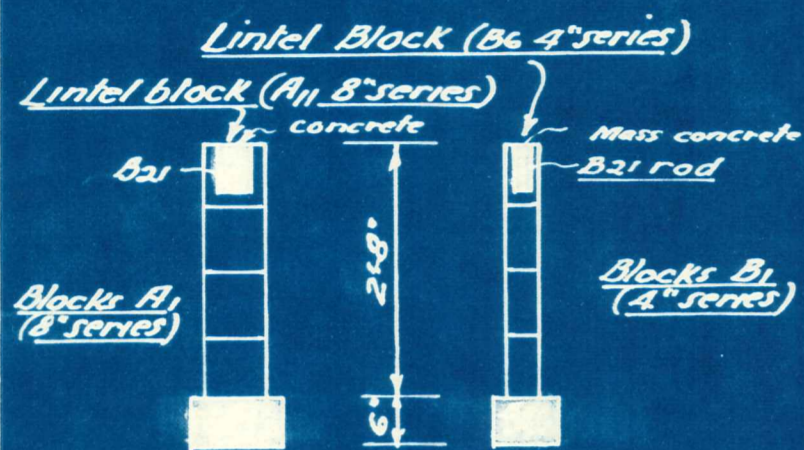




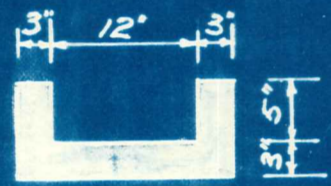
ELEVATION FRONT WALL



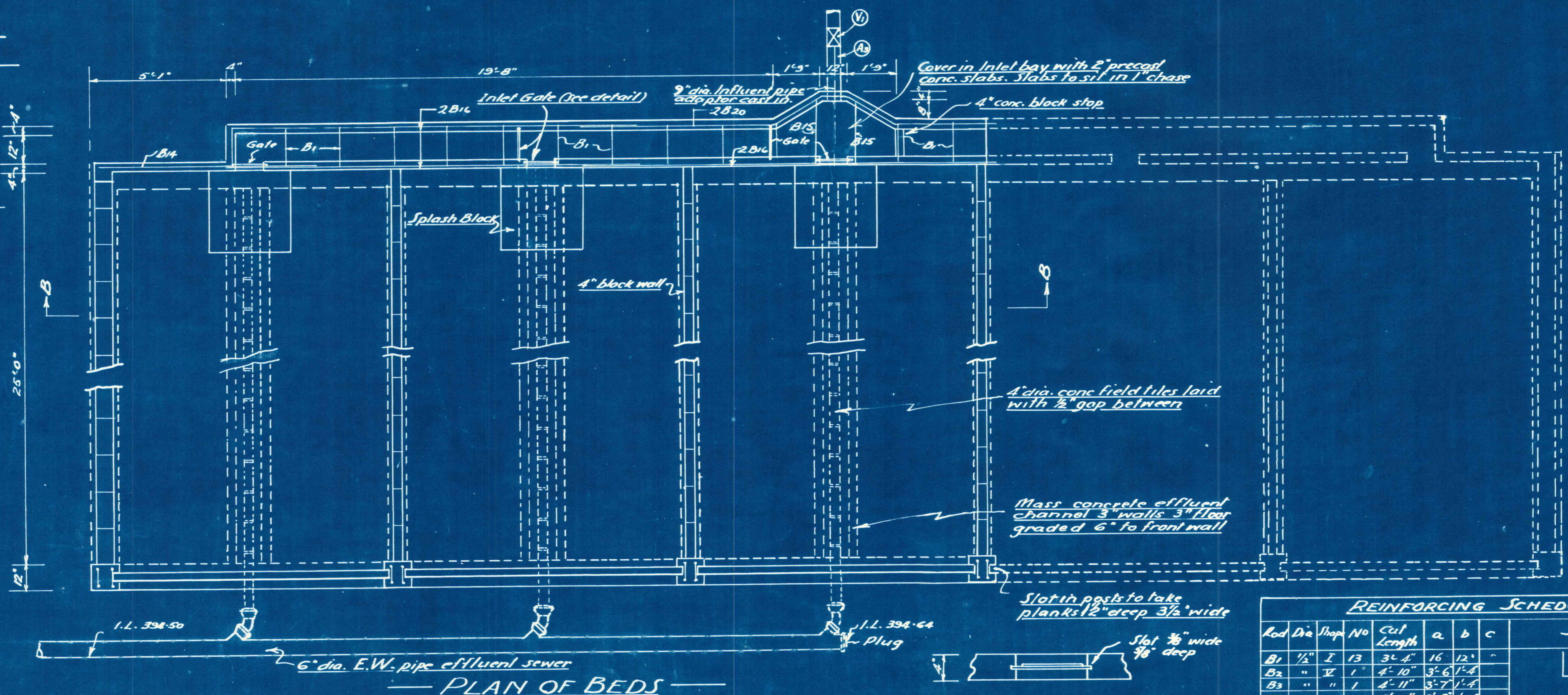
SECTION ON B.B.



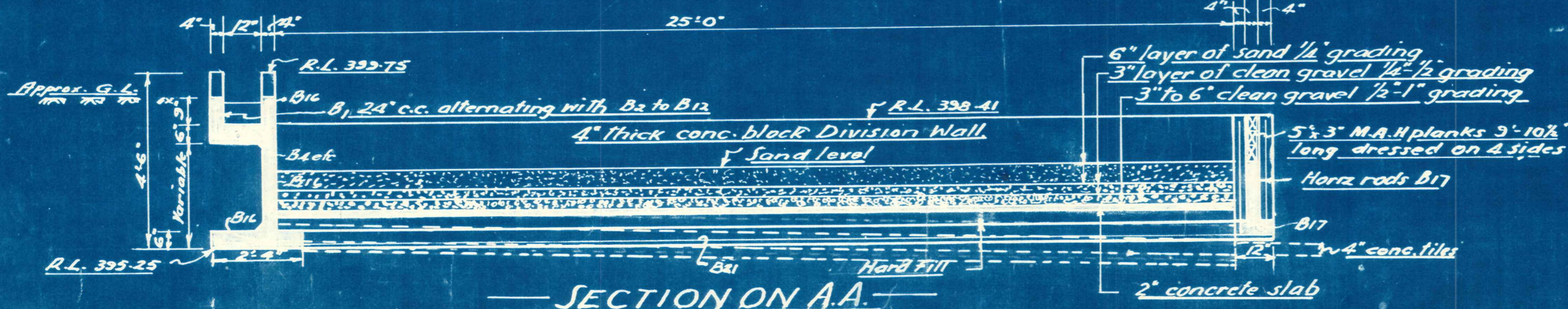
OUTER WALL - INNER WALL
BLOCK WALL DETAIL
(Blocks in Vibrapac Series)



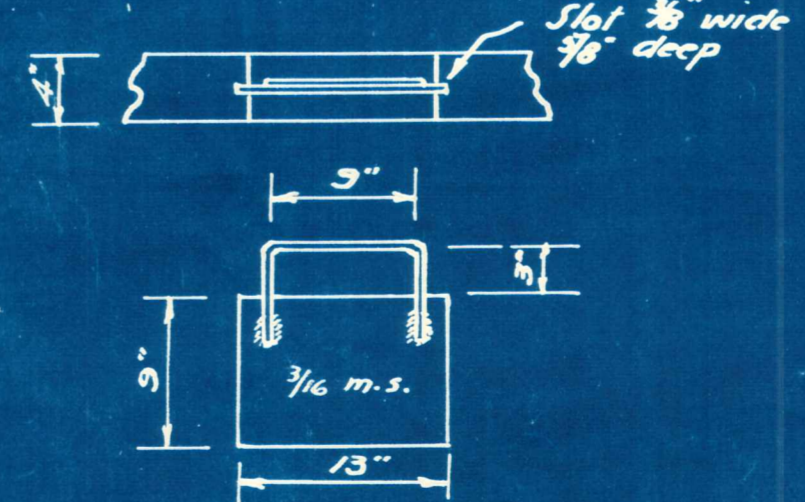
TILE TROUGH DETAIL
Scale 3/4 in to 1 ft.



PLAN OF BEDS



SECTION ON A.A.

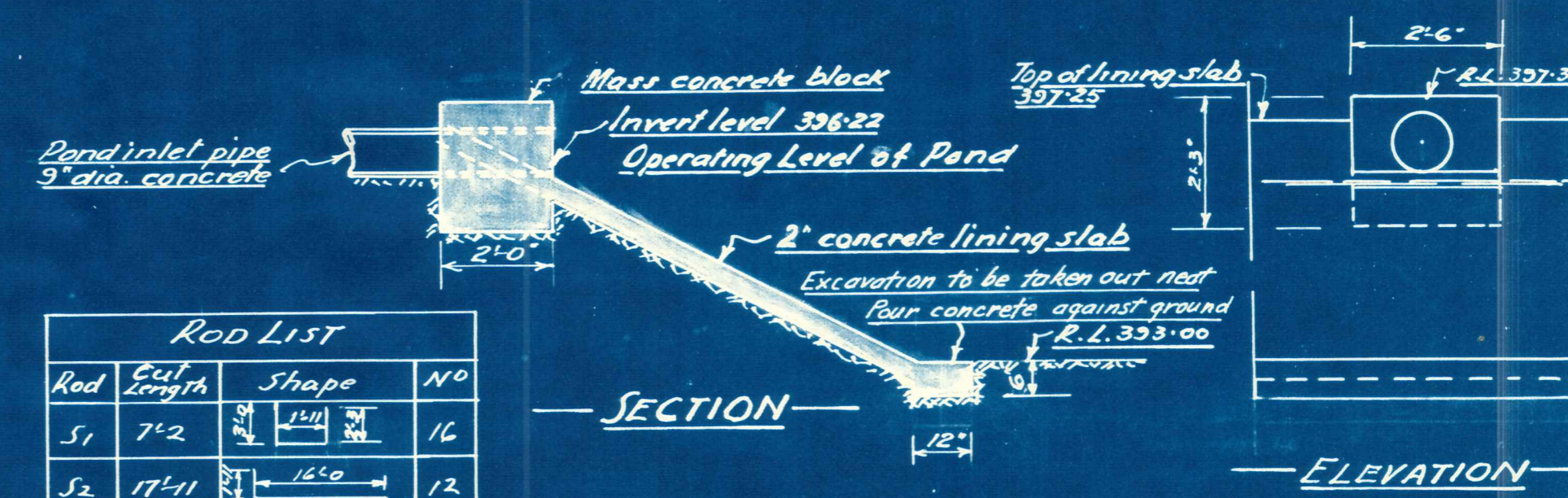
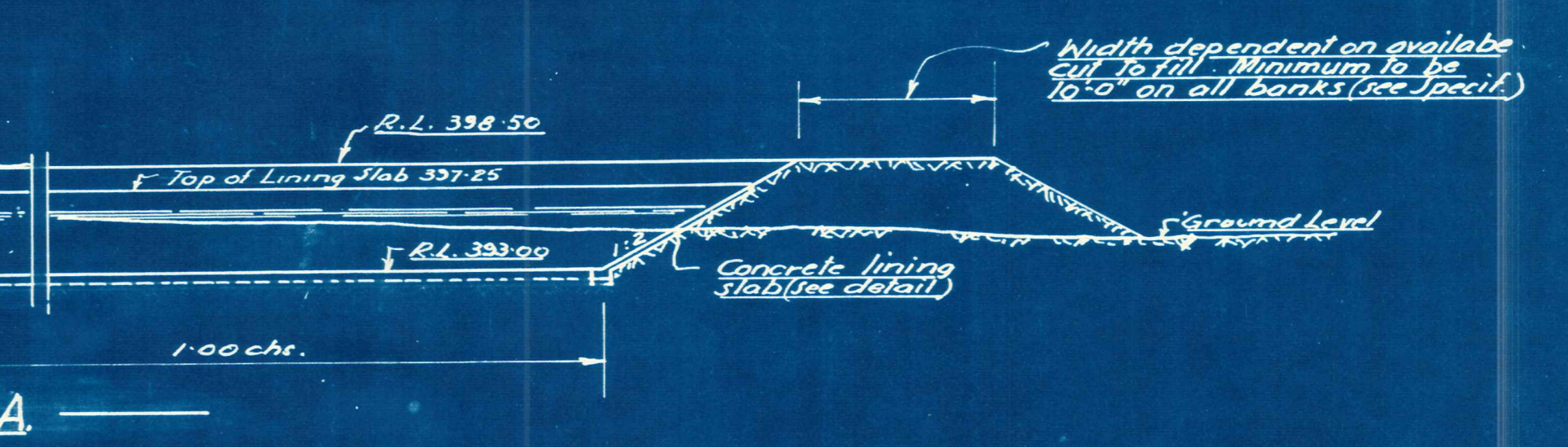
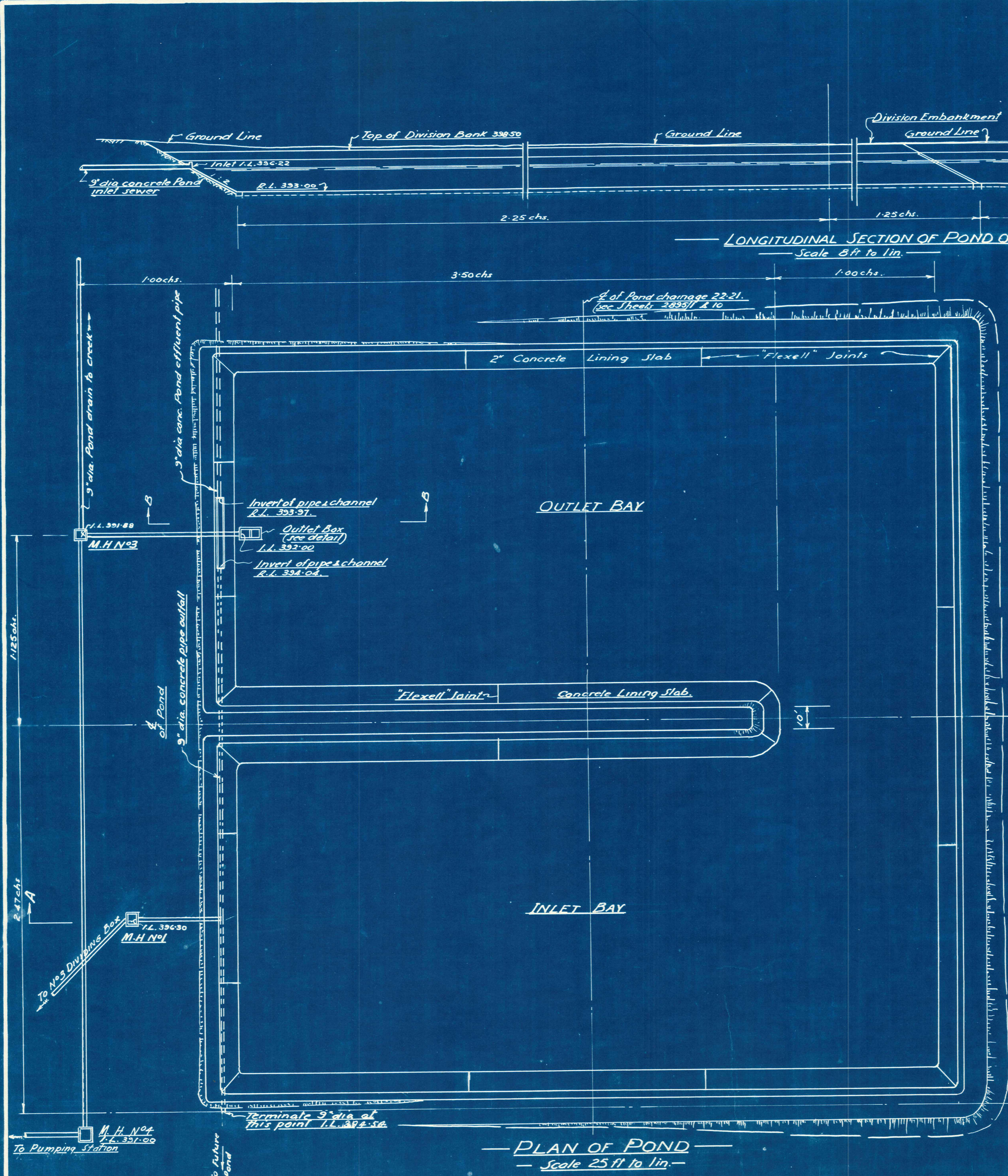


GATE DETAIL
Scale 1 to 10
(Five times)

Scale 3/8 to 1'-0"

REINFORCING SCHEDULE

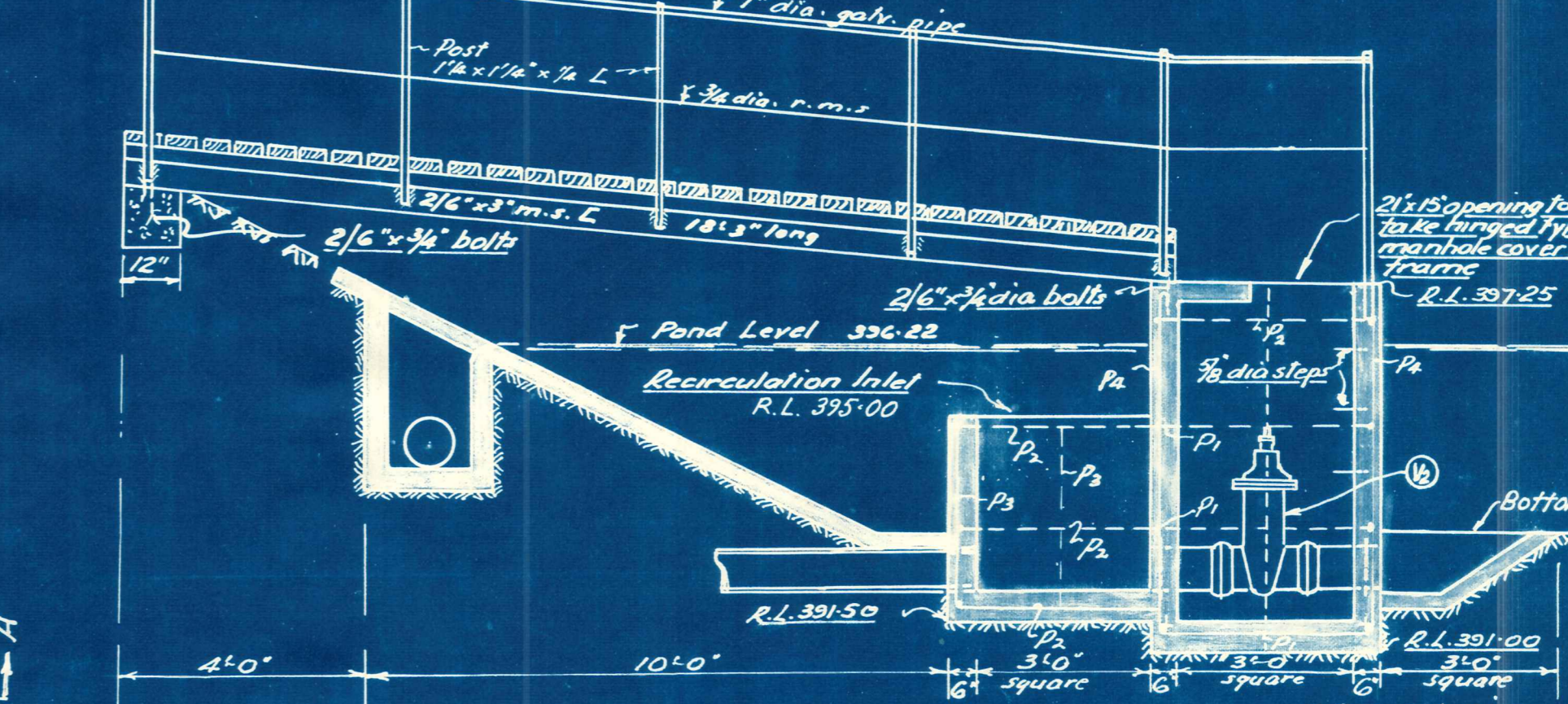
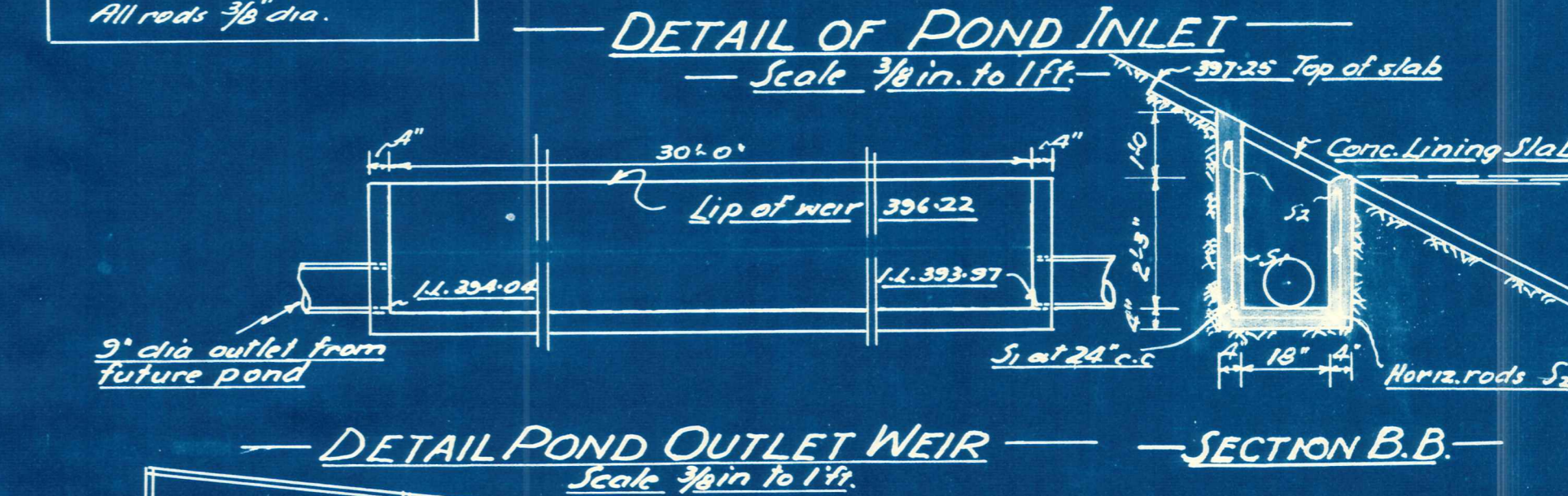
Rod	Dia	Shape	No	Cut Length	a	b	c	Shape Diagram
B1	1/2"	I	13	3'-4"	16	12"	-	
B2	"	II	1	4'-10"	3'-6"	1'-4"	-	
B3	"	"	1	4'-11"	3'-7"	1'-4"	-	
B4	"	"	1	5'-0"	3'-8"	1'-4"	-	
B5	"	"	1	5'-1"	3'-9"	1'-4"	-	
B6	"	"	1	5'-2"	3'-10"	1'-4"	-	
B7	"	"	1	5'-3"	3'-11"	1'-4"	-	
B8	"	"	1	5'-4"	4'-0"	1'-4"	-	
B9	"	"	1	5'-5"	4'-1"	1'-4"	-	
B10	"	"	2	5'-6"	4'-2"	1'-4"	-	
B11	"	"	2	5'-7"	4'-3"	1'-4"	-	
B12	"	"	2	5'-7"	4'-3"	1'-4"	-	
B13	"	"	3	4'-7"	2'-10"	1'-4"	-	
B14	"	II	4	8'-0"	-	-	-	
B15	"	I	2	4'-5"	2'-5"	1'-0"	-	
B16	"	II	16	15'-0"	-	-	-	
B17	"	"	4	20'-0"	-	-	-	
B18	"	III	8	6'-7"	2'-11"	9"	-	
B19	"	II	12	1'-8"	-	-	-	
B20	"	IV	2	15'-6"	-	-	-	
B21	"	II	12	26'-0"	-	-	-	



ROD LIST

Rod	Cut Length	Shape	No
S ₁	7'-2"		16
S ₂	17'-11"		12

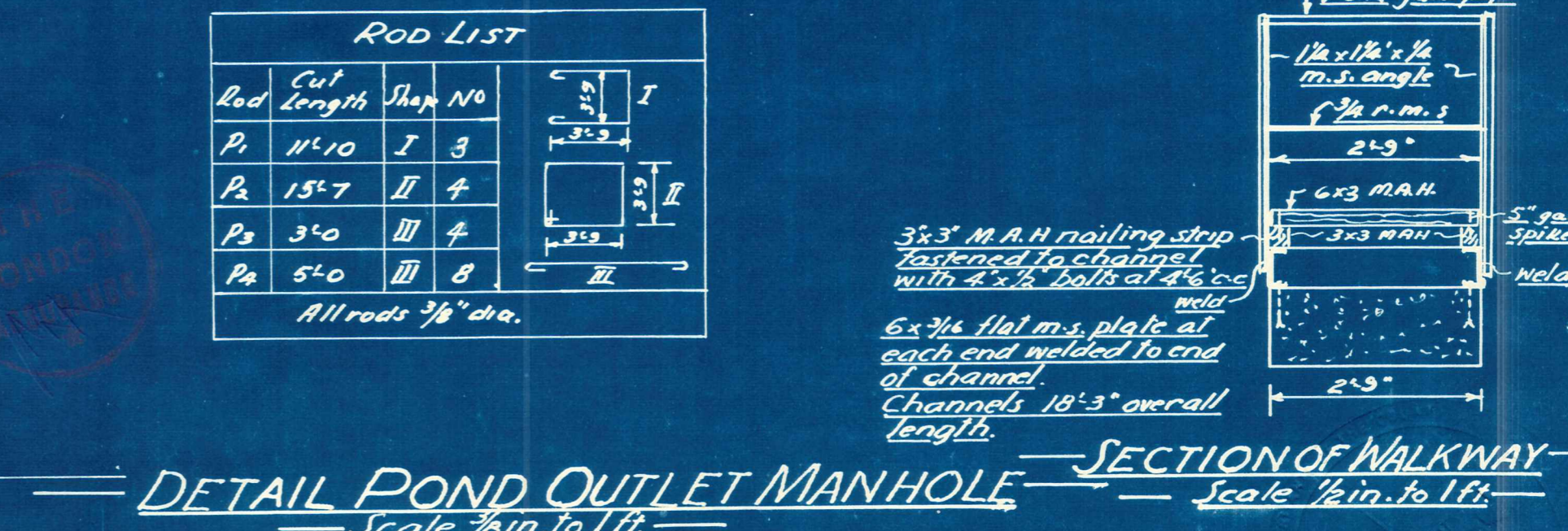
All rods 3/8" dia.



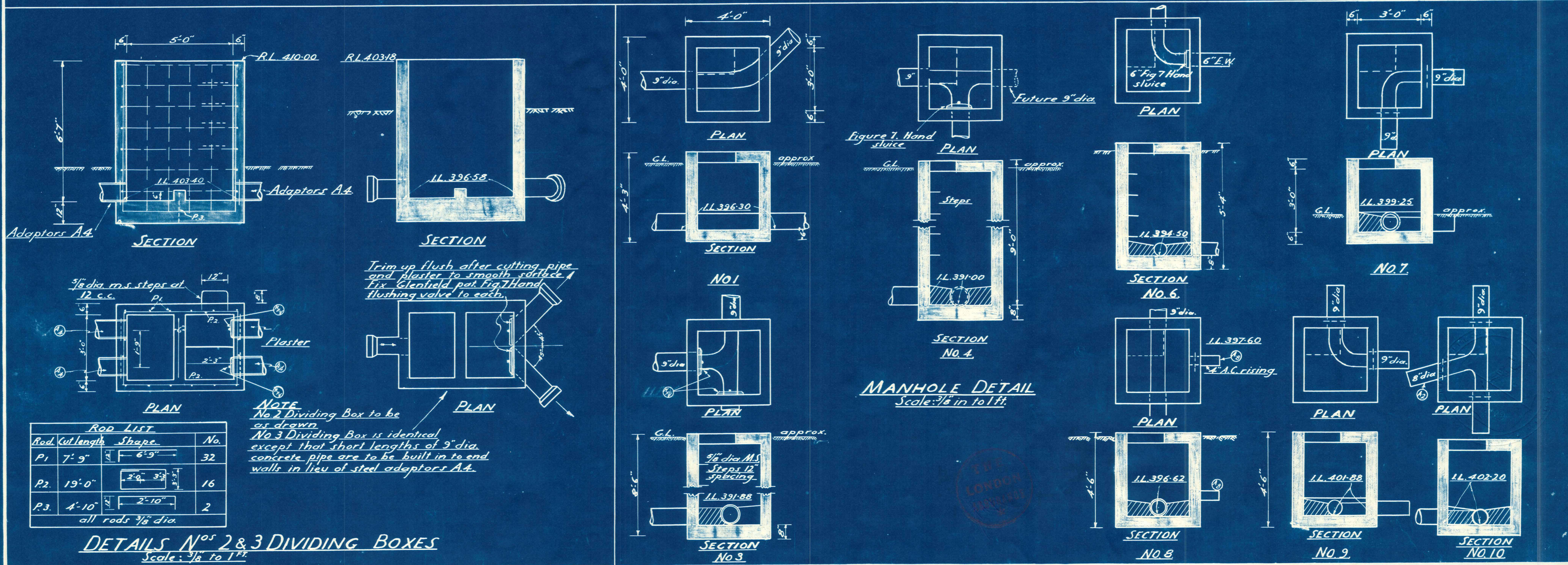
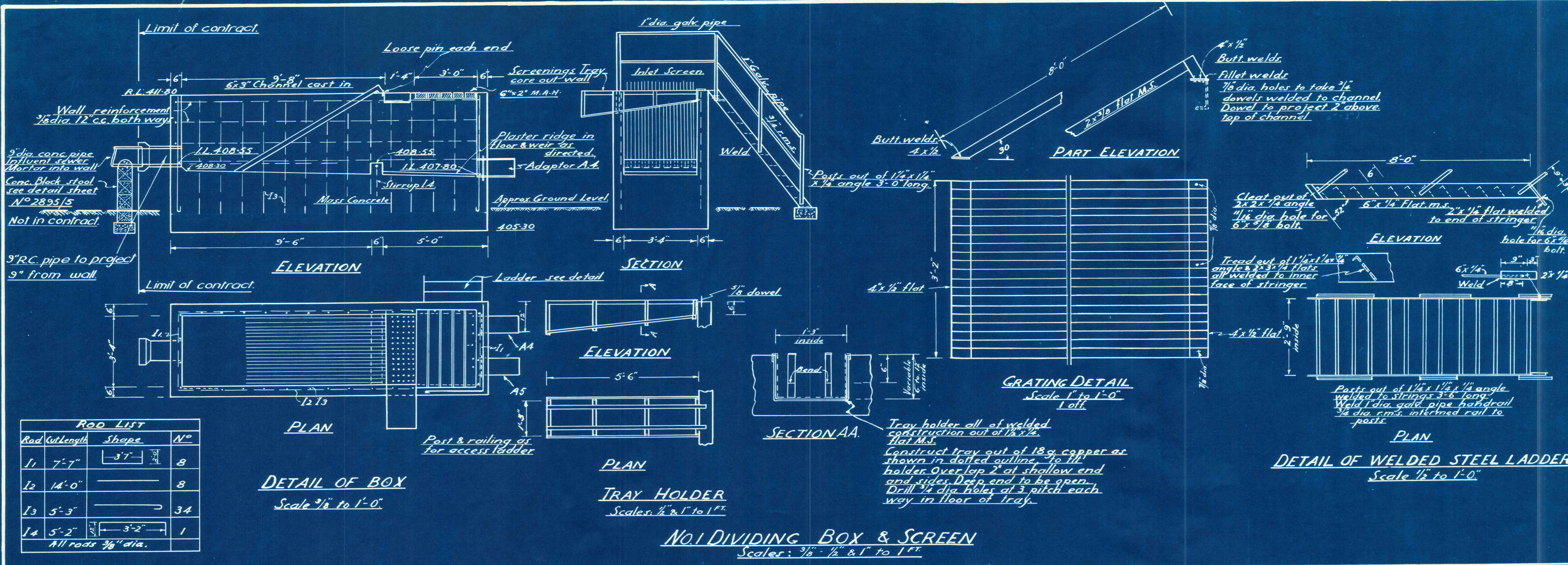
ROD LIST

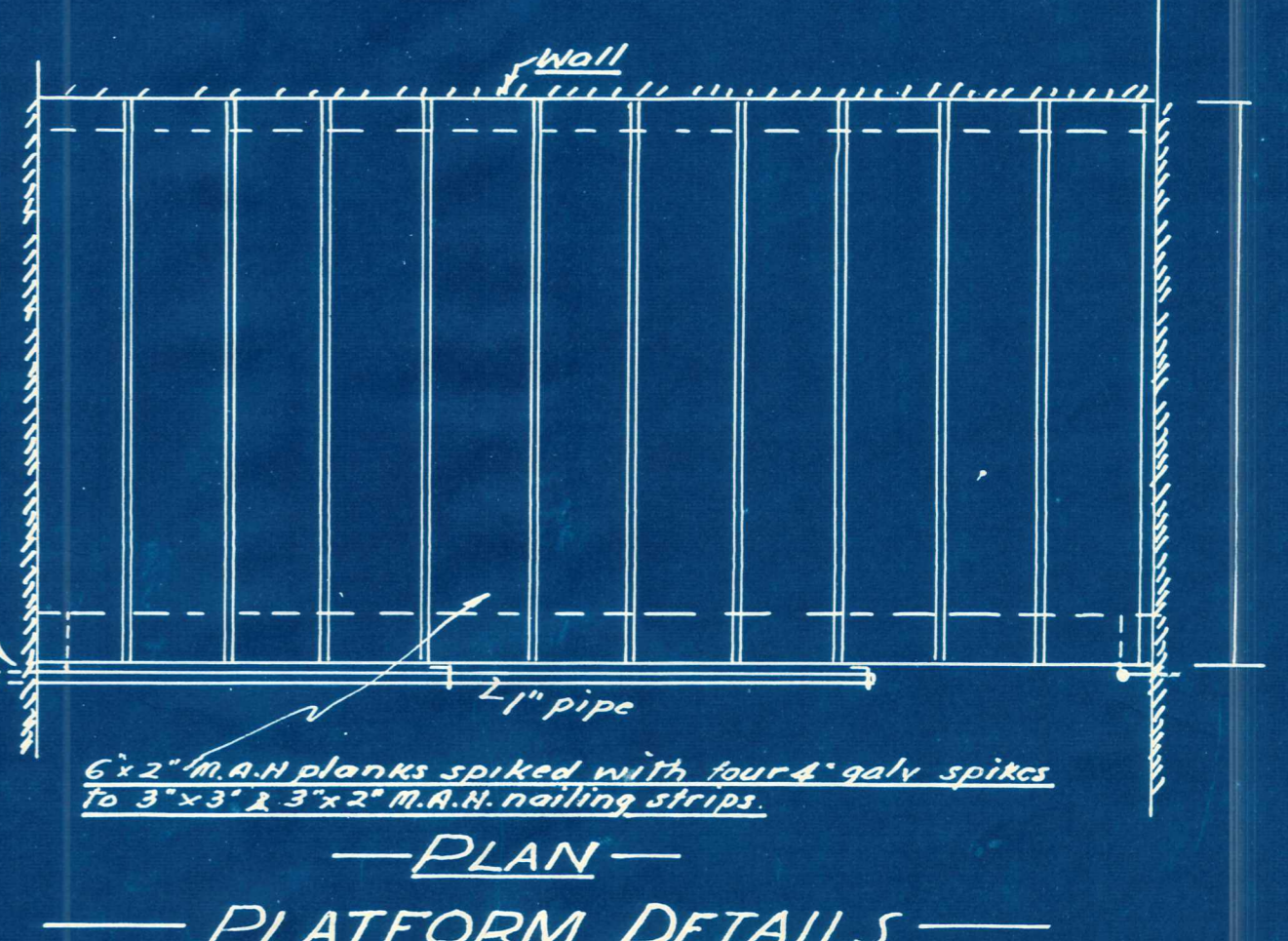
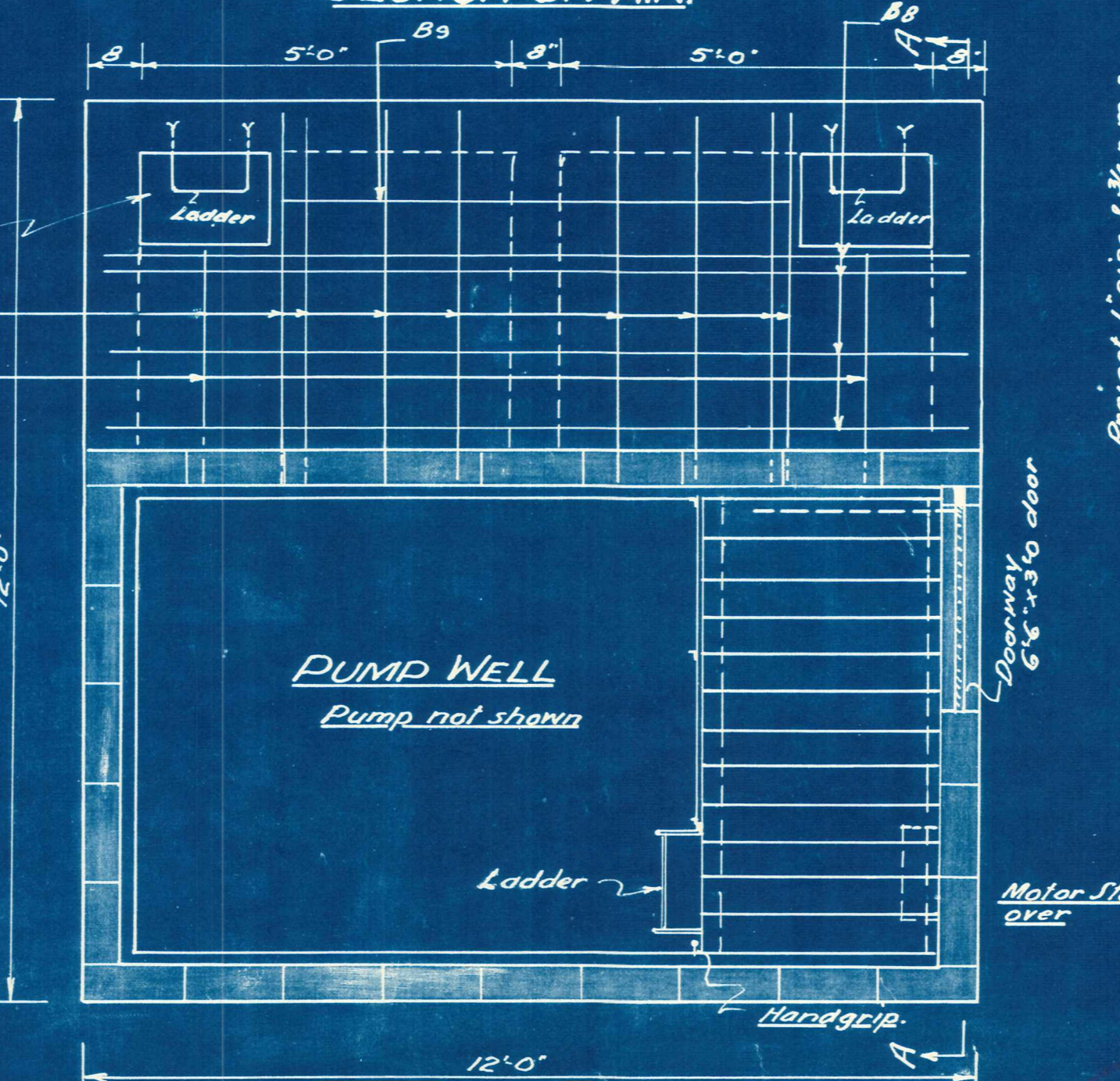
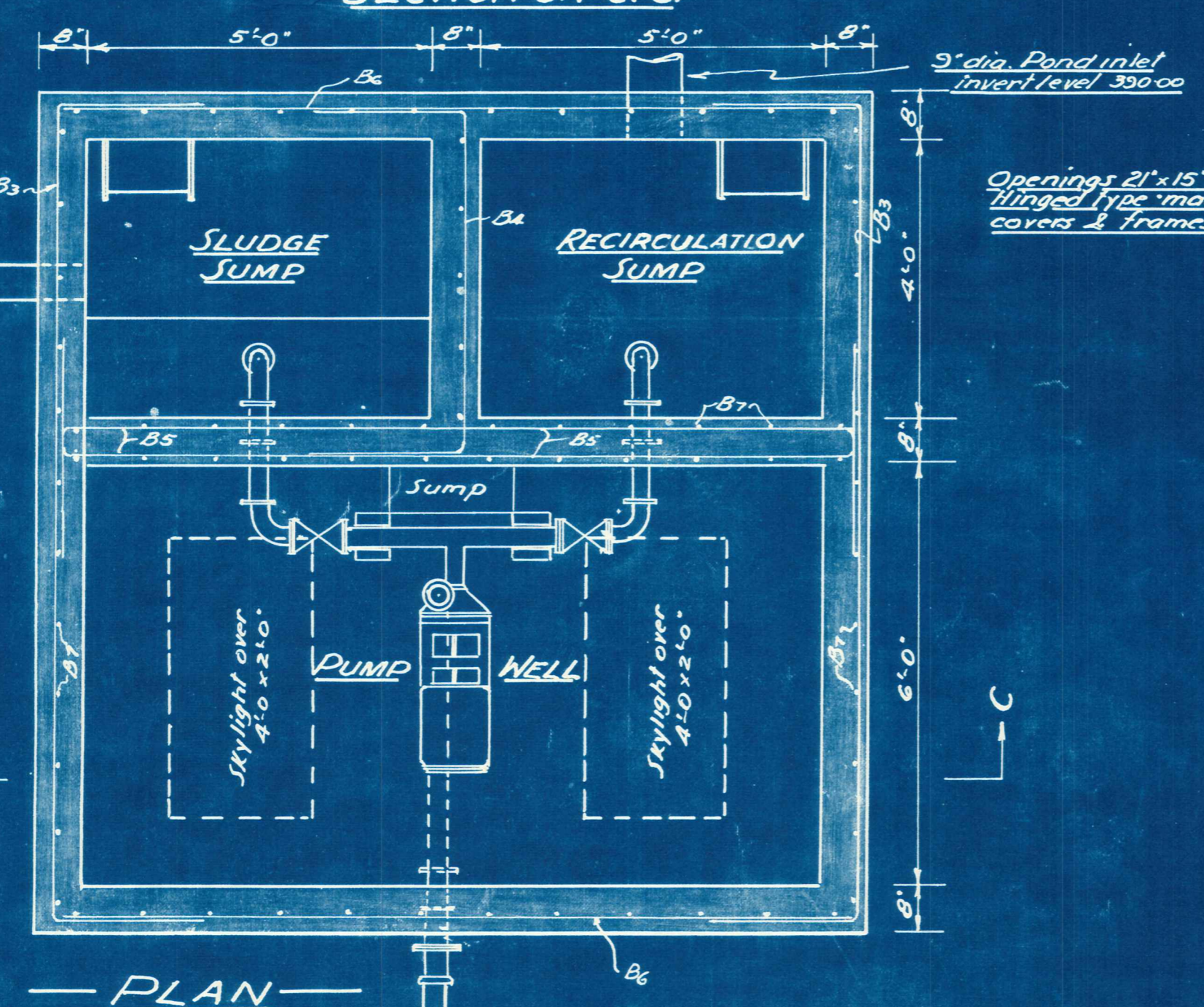
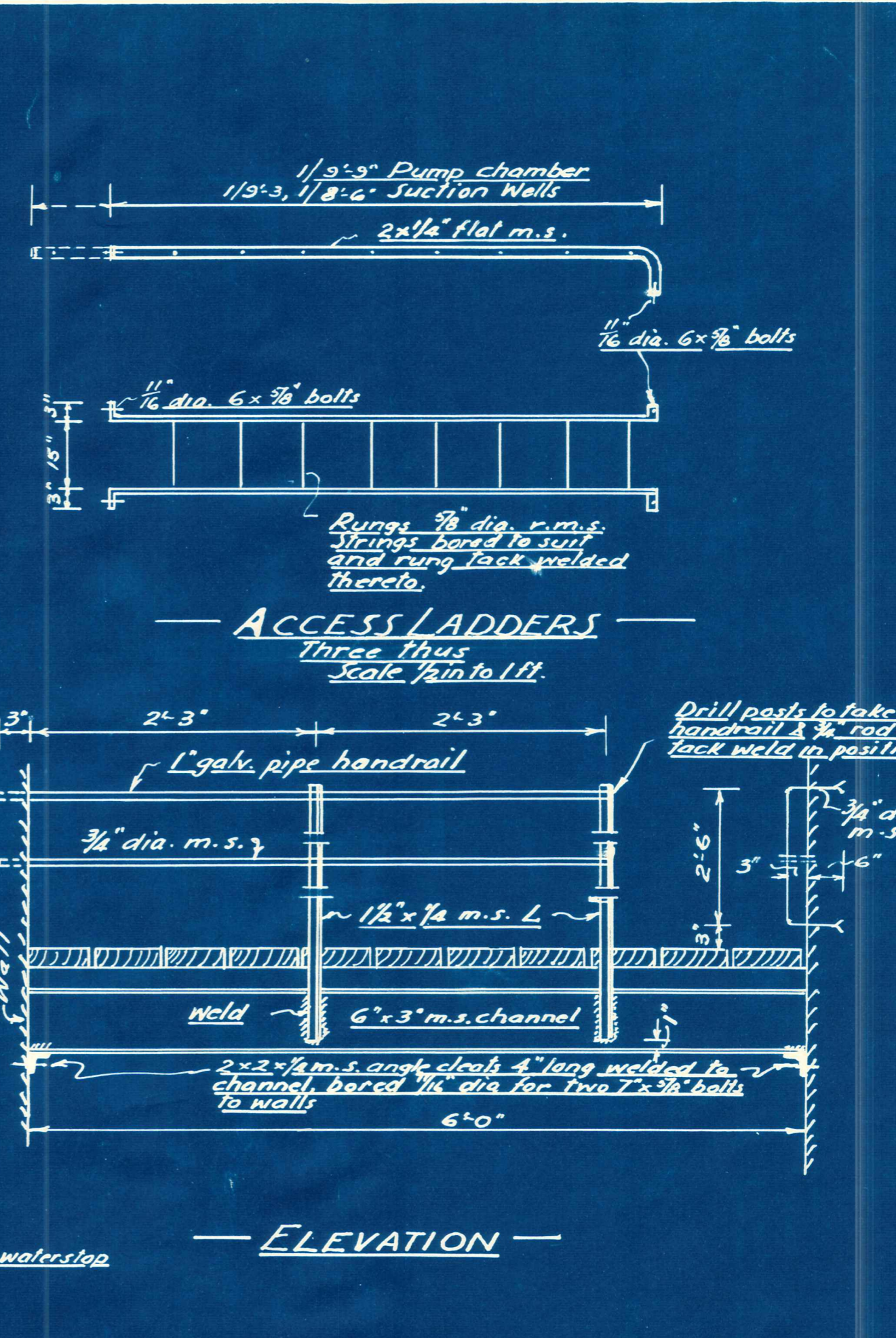
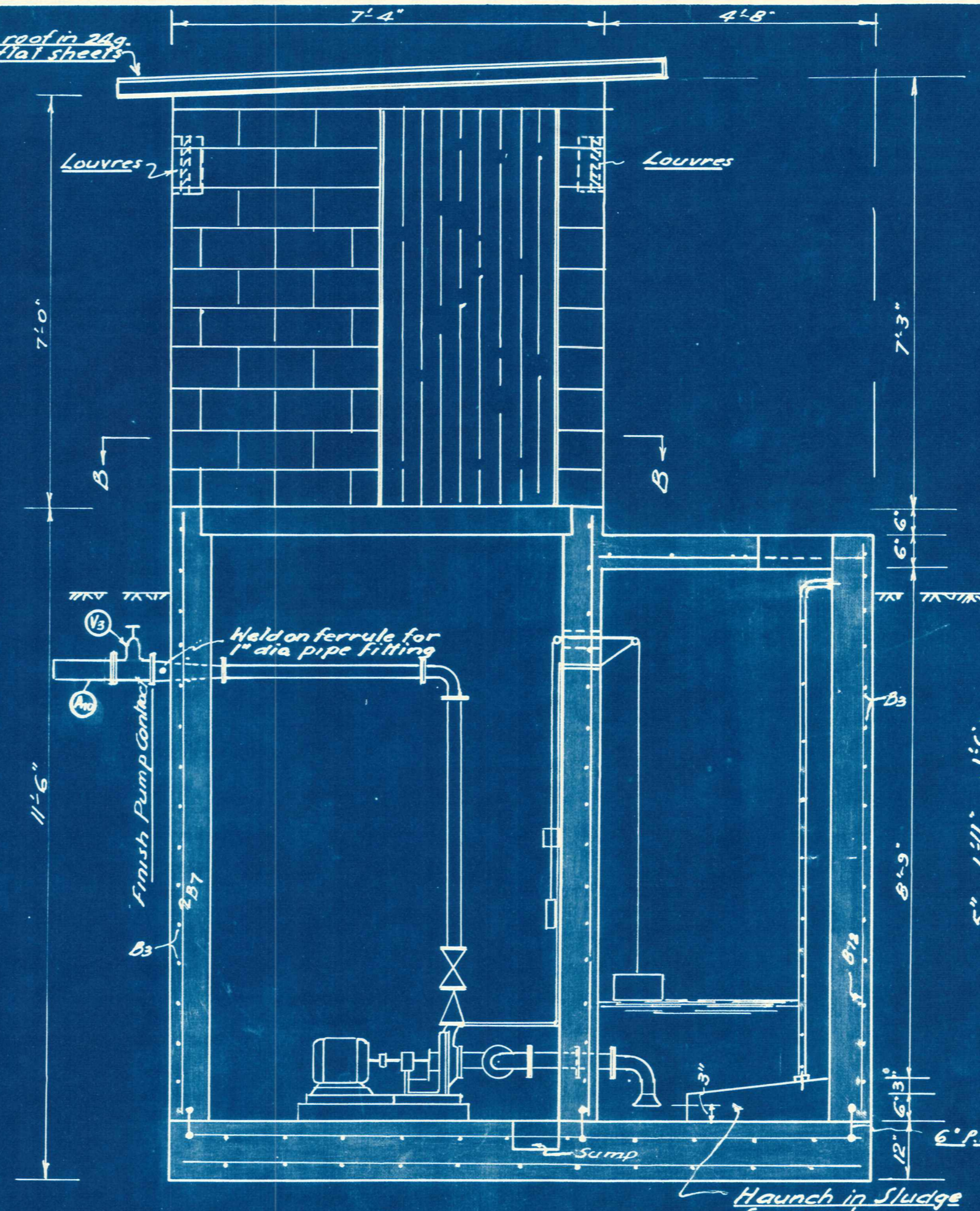
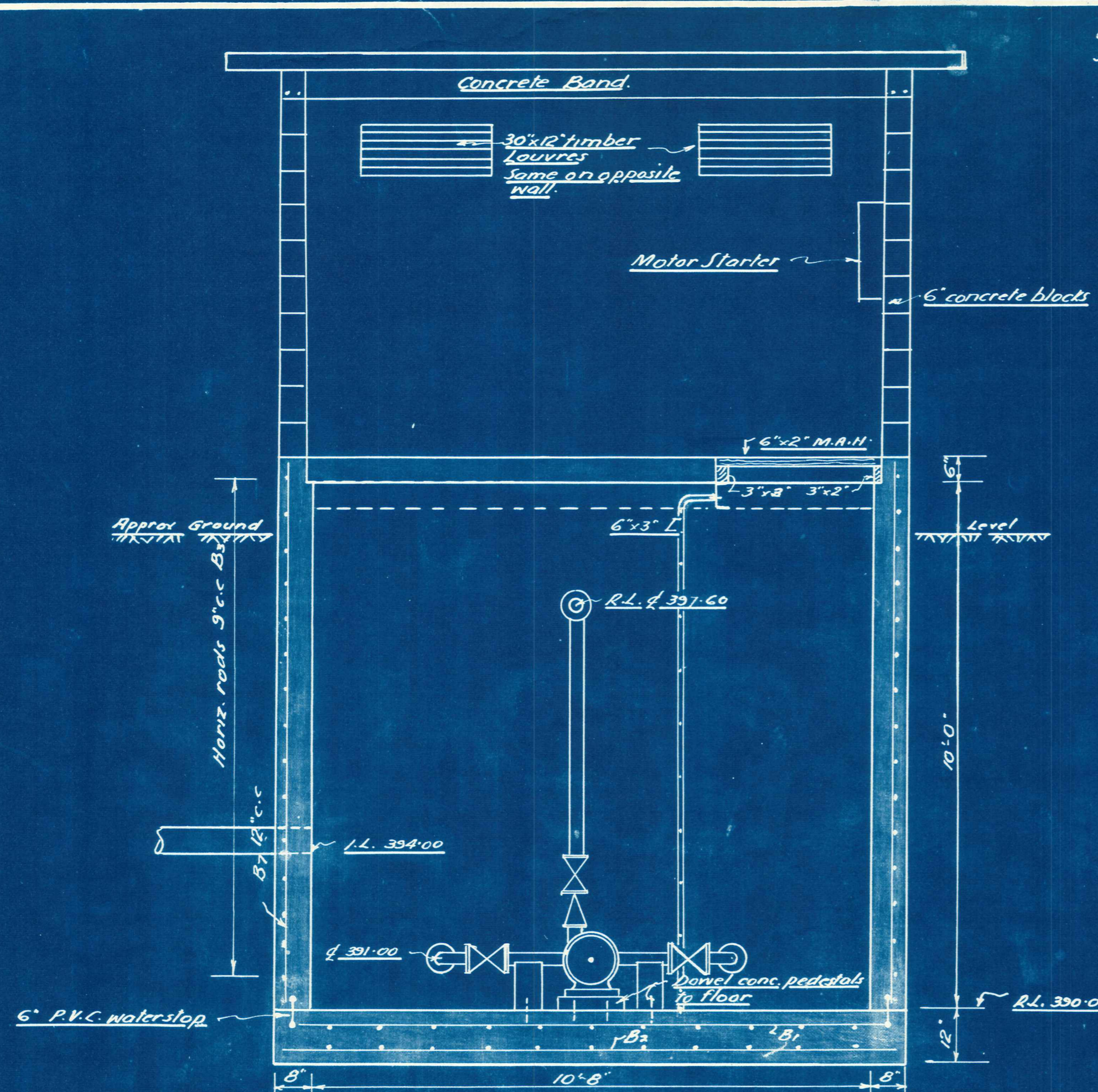
Rod	Cut Length	Shop	No
P ₁	11'-10"	I	3
P ₂	15'-7"	II	4
P ₃	3'-0"	III	4
P ₄	5'-0"	III	8

All rods 3/8" dia.



Note - For details of other manholes see sheet 2895/8





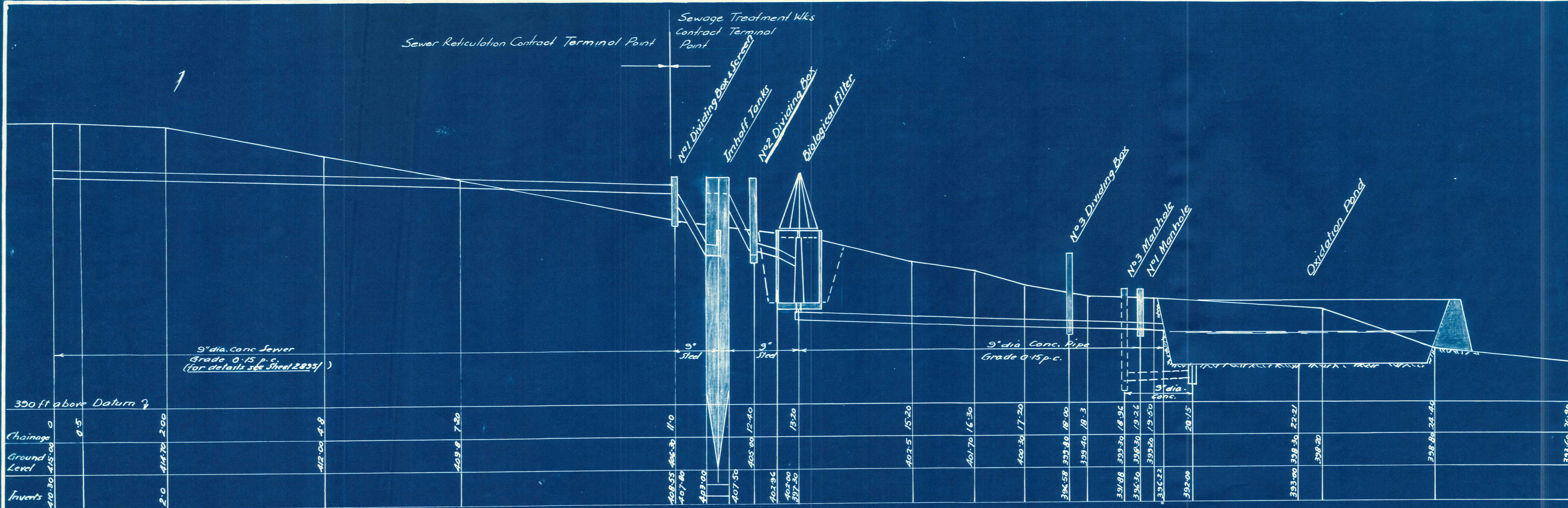
ROD LIST

Rod	Full Length	Shape	NO	a	b	Shape Diagram
B1	11'-0"	I	22	11'-0"		
B2	11'-9"	I	22	11'-9"		
B3	16'-3"	II	30	11'-9"	2'-3"	
B4	9'-6"	II	15	5'-0"	2'-3"	
B5	15'-3"	II	30	11'-9"	1'-9"	
B6	11'-9"	I	30	11'-9"		
B7	10'-3"	I	50	10'-3"		
B8	11'-9"	I	4	11'-9"		
B9	6'-3"	I	1	6'-3"		
B10	4'-9"	I	8	4'-9"		
B11	3'-0"	I	2	3'-0"		
B12	9'-9"	I	27	9'-9"		

All rods 1/2" dia.

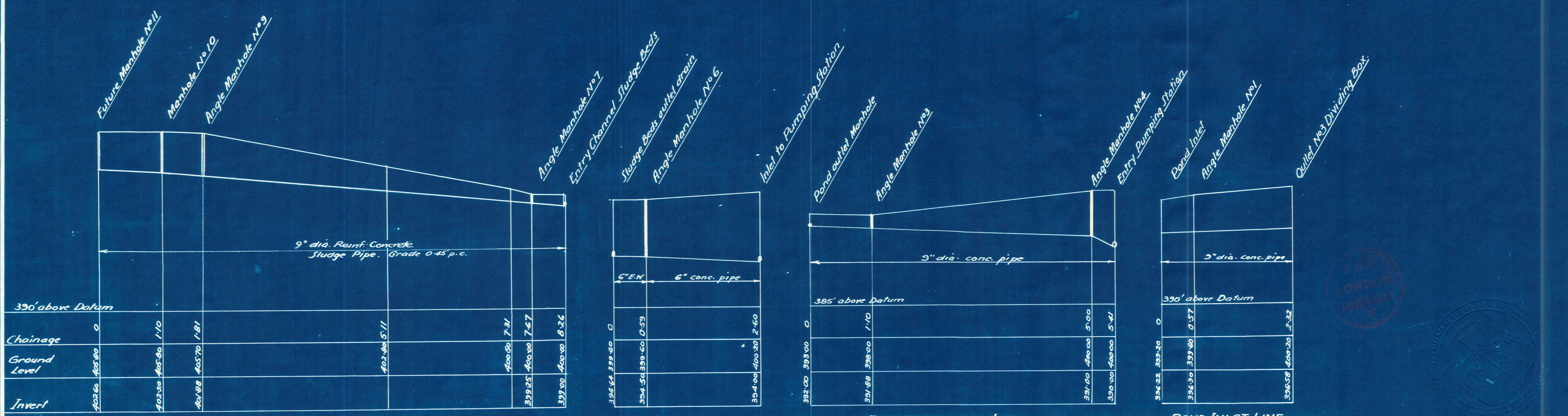
Note - Pump installation shown is approx only. Manufacturers drawings will be supplied to contractor when available.

Scale 1/2" to 1'-0"



SECTION THROUGH PLANT ON LINE X.X

Scales — Horiz. 1 in. to 100 ft.
Vert. 5 feet to 1 in.
(Chainages are along R.L.)



SLUDGE RETURN LINE RECIRCULATION LINE POND INLET LINE

LONGITUDINAL SECTIONS

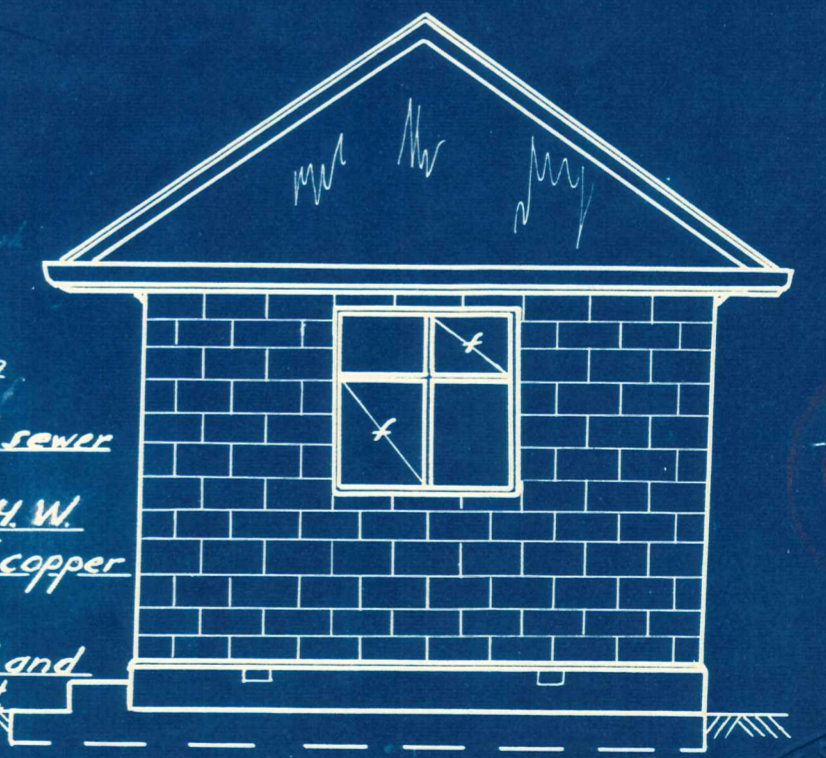
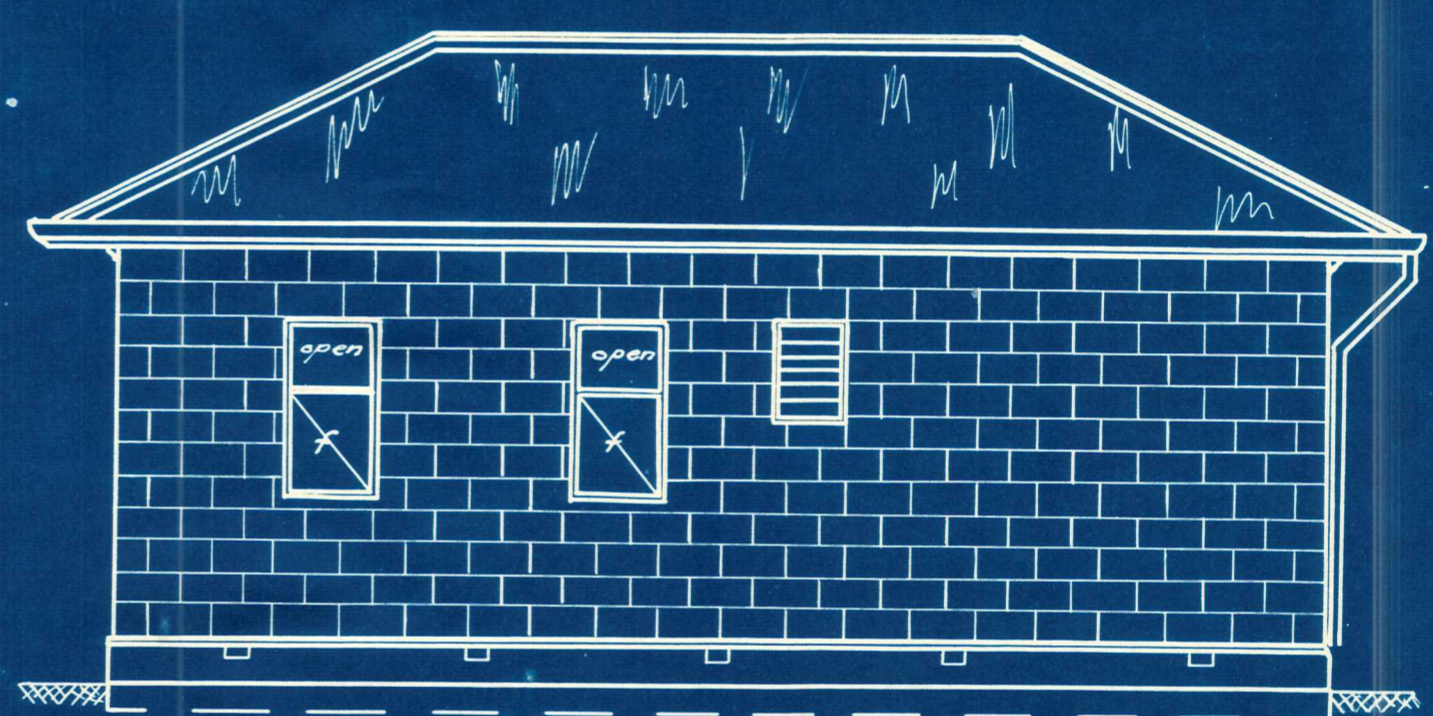
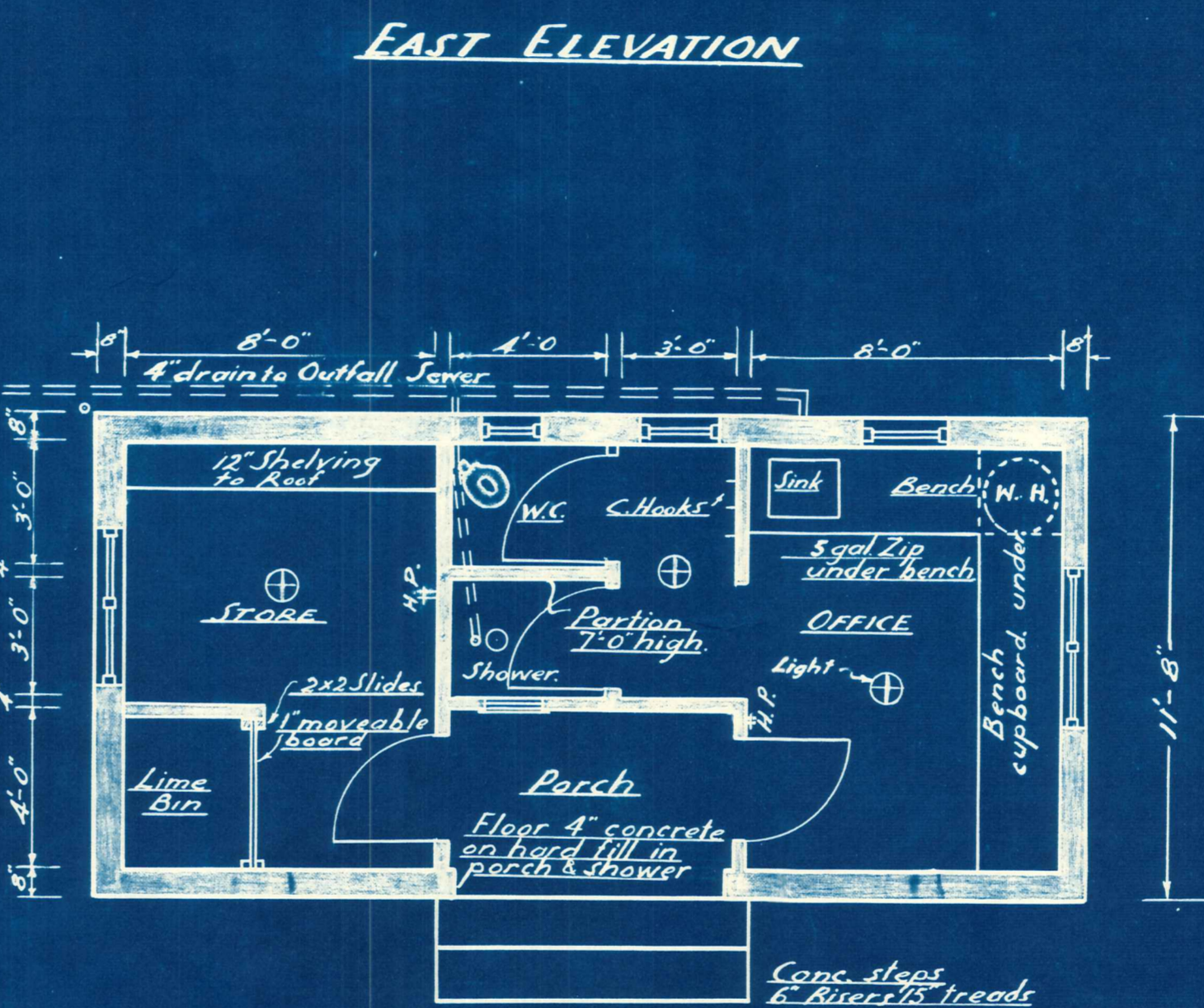
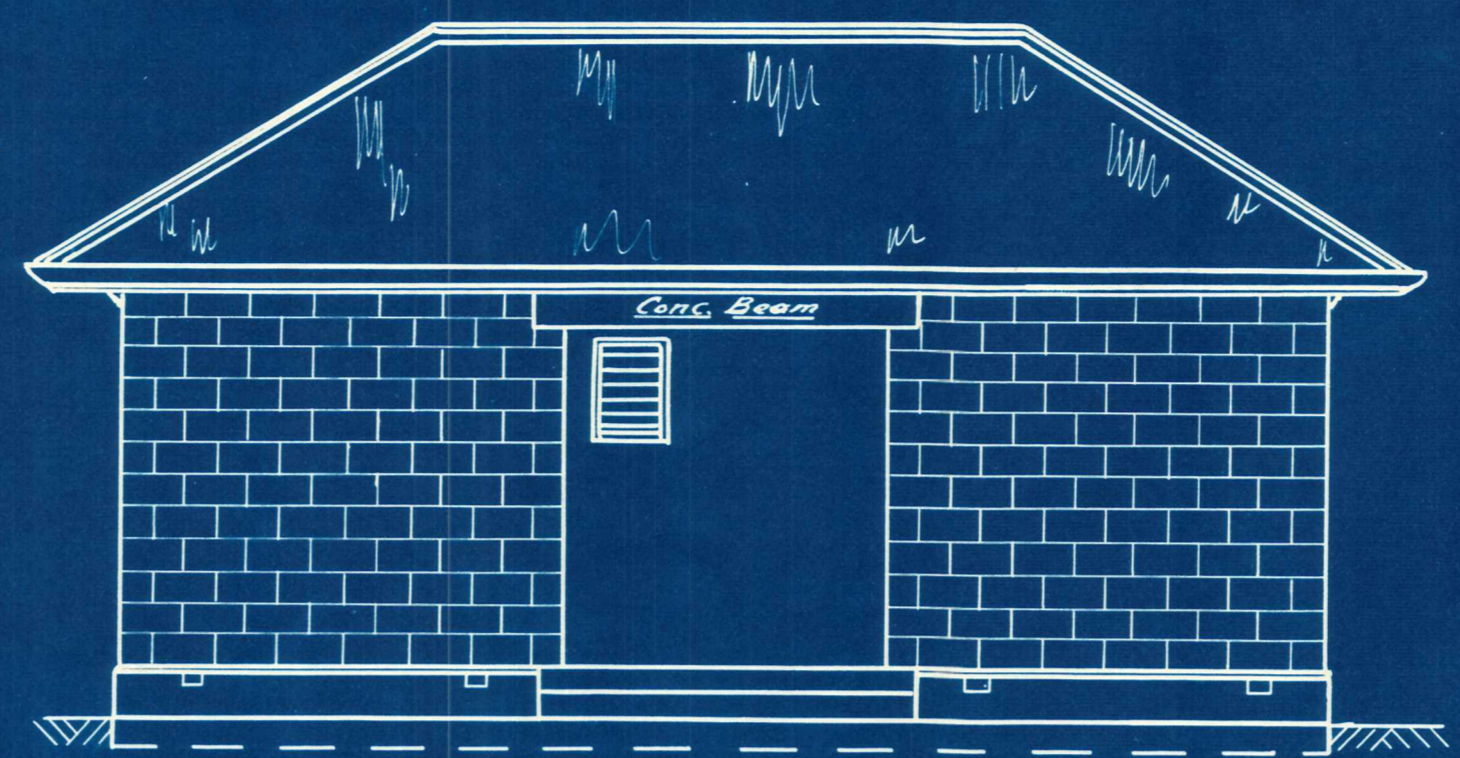
Scales — Horiz. 1 in. to 100 ft.
Vert. 5 ft. to 1 in.

SCHEDULE OF PIPE SPECIALS

Type Special	Sheet No.	Size	Mark	No of	Location	Diagram
Main Influent Line						
Adaptor	2 & 8	3" int. dia. steel	A4	1	Nº1 Dividing Box.	
Adaptor	2 & 8	ditto	A5	1	ditto	
Bend	2	ditto	B4	1	ditto	
Valve	2	3" for gib joint	V2	1	Inlet Nº1 Imhoff	
Bend	2	3" int. dia. steel	B4	1	ditto	
Adaptor	2	3" int. dia. steel	A6	1	ditto	
Pipe	3	3" int. dia. steel	P1	1	ditto	
Adaptor	2 & 3	ditto	A1	1	Outlet Nº1 Imhoff	
Bend	2	ditto	B1	1	ditto	
Valve	2 & 7	3" for gib joint	V2	1	Pond Outlet Manhole Inlet Nº2 Dividing Box	
Bend	2	3" int. dia. steel	B2	1	ditto	
Adaptor	2 & 8	ditto	A4	4	Inlet Outlet Nº2 D.B.	
Bends	2	3" int. dia. steel	B3	1	Outlet Nº2 Dividing Box	
Sludge Line						
Adaptor	3 & 2	5" int. dia. steel	A7	1	Sludge outlet Imhoff	
Adaptor	2 & 8	ditto	A2	1	Manhole Nº10	
Valve	2 & 8	5" for gib joint	V1	1	ditto	
Adaptors*	2 & 8	3" int. dia. steel	A3	2	ditto	
Adaptors*	8	ditto	A3	2	Manhole Nº7	
Adaptors*	6	ditto	A3	1	Inlet Sludge Beds	
Valve*	9	4" flanged	V3	1	Outlet Pumping Stn.	
Valve*	6	3" for gib joints	V2	1	Inlet to sludge Beds	
Adaptor*	8	4" for gib joint	A8	1	Manhole Nº8	
Adaptor*	9	4" steel for gib joint	A10	1	Pumping station delivery	
Bend*	18 & 9	4" cast iron	B5	1	Standard C.I. Bend for 4" Fibrolite gib joint Outlet Pumping Stn.	
Adaptor	3	3" steel	A9	2	Imhoff Tank	

Note:
All specials are to be clearly marked and are to be supplied with the required size and number of Gibault joints complete with bolts.

Note: Fitting so marked * to joint with Fibrolite pipe of same size.



GENERAL SPECIFICATION

Construction 5" concrete foundation galv wire ventilators. Framing 4"x2" locally grown Radiata. Galv iron roof (26 g). Copper D.P. & spouting, all in accordance with N.Z.S.S. 95 pt. IV.

Linings Porch and Eaves Masonite, battened moulding at wall and fascia. Office, Flame-proof Pinex ceiling (Vee grooved). Walls Gibralter Board. Shower Cabinet and elsewhere, N.Z. Hardboard. Store Pinex ceiling. Hardboard on walls. Lime Bin. Frame up 3'-6" high in 6"x1" Radiata and line both sides in hardboard. Floors Porch and shower concrete. Other floors Radiata.

Lights Ceiling fittings 90w plastic shades thus. ⊕ Globes 100watt office and store. 75watt Shower.

Power Heating points (two at) thus ⊕

Painting Paint to be to N.Z.S.S. 521. Ceilings two coats of approved paint. Walls. Store walls not to be painted. Other walls 1 coat undercoat. Two coats of enamel. Office fittings. Seal and two coats clear.

Windows All panes 20oz. glass. casement stays bronze. Fixed sashes shown thus. f.

Joinery Windows 4"x2" casement in Totara or Oregon. Louvres 2"x1'-6" obscure glass slats. Shower window 26 oz. obscure glass. Doors Exterior T.G. Totara or Oregon 6"x8"x2'-6". Interior R.P. flush 6"x6"x2"x6". Moulding Heart Red Pine.

Office Fittings in Red Pine. Bench on West wall plain front with toe recess. Bench on North wall with cupboards under full length and 18" wide shelf. Sink 21"x18"x10" in Stainless steel 1/2" Hot Cold Chrome Taps. Water Heater 5 galls. under West wall bench. Connect to a supply tank in roof, and to sink and shower in copper piping 1/2".

Store Shelving to roof open in 8"x1" & 3"x2" Radiata.

Painting (continued) Exterior woodwork one coat of red-lead, two coats approved. Eaves. One undercoat. Two coats of approved paint.

Drains Allow 100' 4" exterior drain from shower sink and WC. Connect to 3" Outfall sewer and saddle thereto.

Plumber Provide supply tank and H.W. cylinder and connect in 1/2" copper to shower and sink. Provide and fix 2" R.W.C. and connect in 1/2" copper cistern and connect.

Scale: 1/4" to 1" = 1'