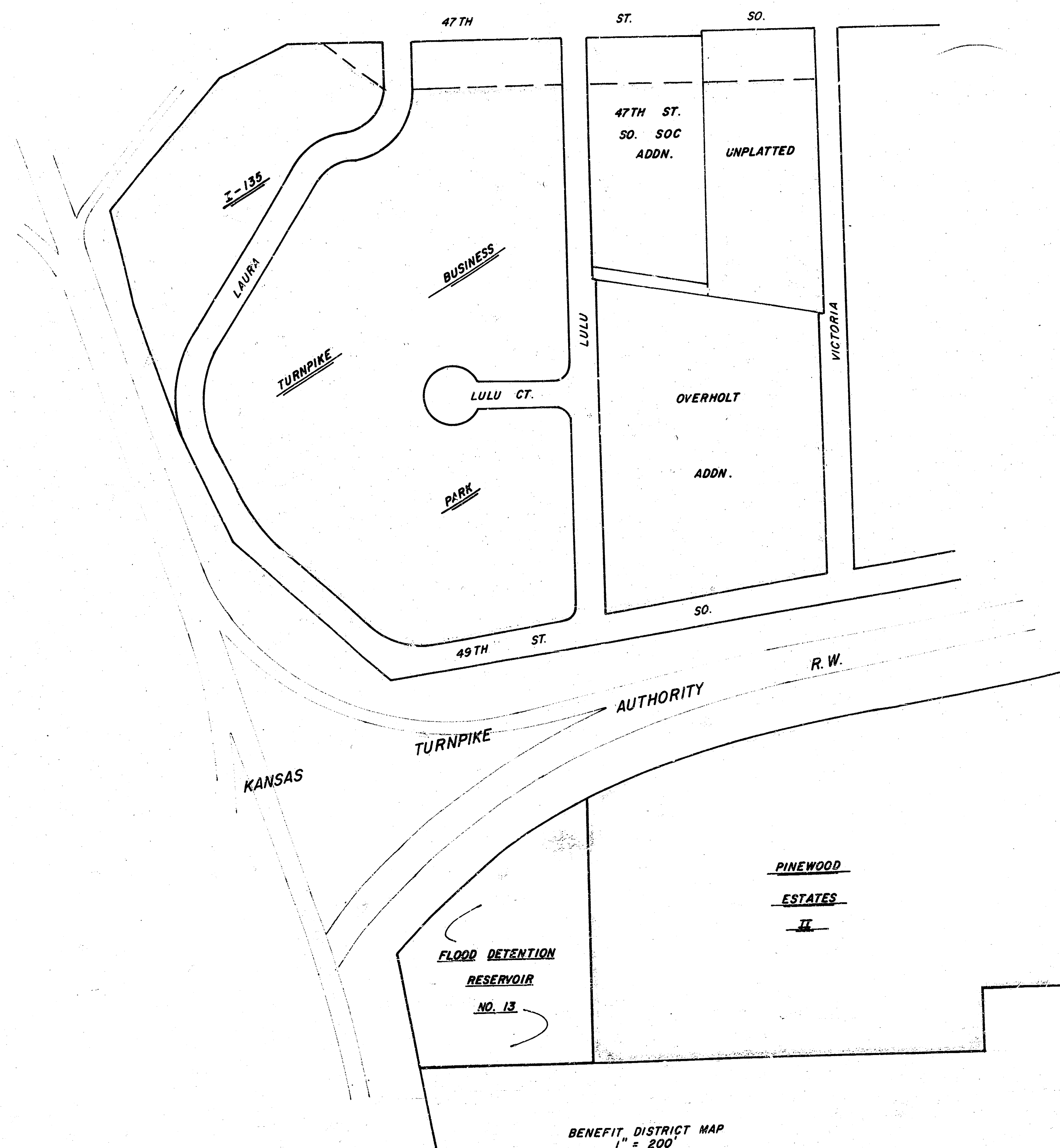


FLOOD DETENTION RESERVOIR NO. 13

468 - 76 - 245 - 81097 - 000 - 000 - 001

SHEET INDEX	
TITLE & LOCATION SHEET	1
DETENTION RESERVOIR PLAN	2
PUMP STATION PLAN	3
PIPE ENTRANCE PLAN	4
PUMP STATION DETAIL	5
DITCH INLET DETAIL	6
RESERVOIR CROSS SECTIONS	7-10



GENERAL NOTES

Contractor shall co-ordinate construction with that of storm sewer No. 229.

Contractor shall be responsible for contacting the utility companies for locations.

Contractor shall be responsible for obtaining electricity usage at the pump station. Cost to be included in bid price of pump station.

Contractor shall be responsible for any irons moved or destroyed due to construction. A registered land surveyor or professional engineer shall be obtained to replace any irons.

The contractor shall be responsible for the construction permits and fees required by the Kansas Turnpike Authority. Permits may be obtained by calling the K.T.A. - 682-4537.

The wire fence along the K.T.A. shall be removed and replaced in good condition. Only the minimum amount of fence necessary shall be removed and replaced. The contractor shall provide temporary fence closing every night thru out the construction period.

The K.T.A. Right of Way shall be regraded to its original slope and elevation after construction is complete. These areas shall be fertilized, seeded and mulched.

The detention reservoir is to be cross-sectioned both before and after construction.

The 12" spigot end section shall be considered as incidental to the cost of the 12" R.C.P.

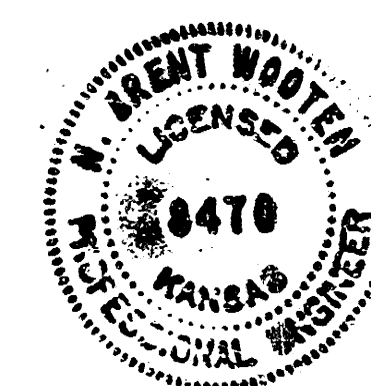
Contractor has access to the reservoir off Hydraulic thru Pinewood Estates II plat.

Site Preparation bid shall include: grading & construction of the 10 foot service access road, any tree removal necessary for the access road or for the excavation and shaping of the reservoir side slope areas and the back-fill and compaction of fill areas.

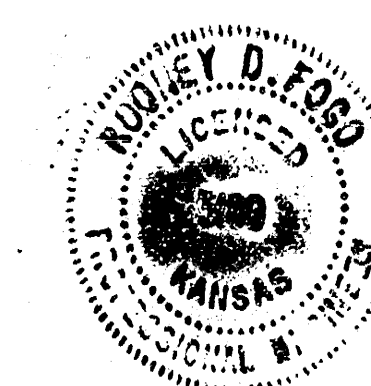
Excavation to be only cut as shown or 18,000 cu yd?

Note!

by whom?
Per?



CITY OF WICHITA, KS.
R. W. BRUGGEMAN — DIRECTOR OF ENGINEERING

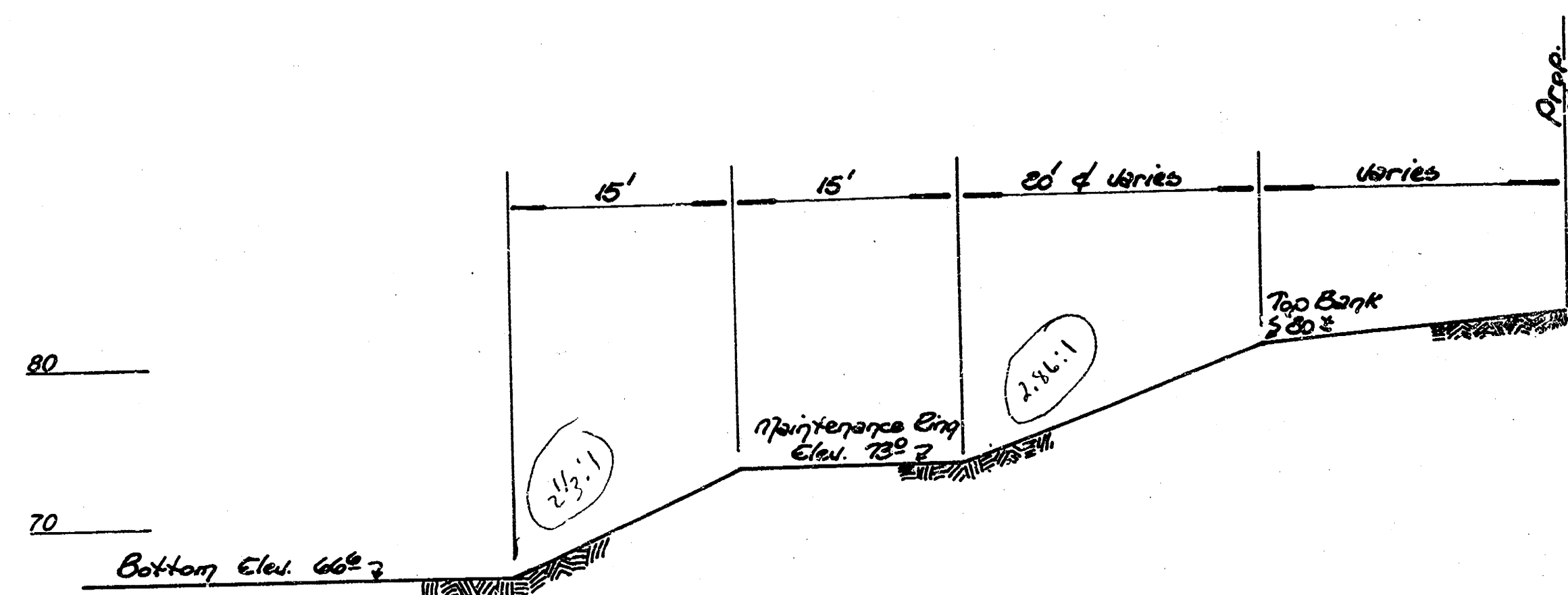


Revised 11-15-81

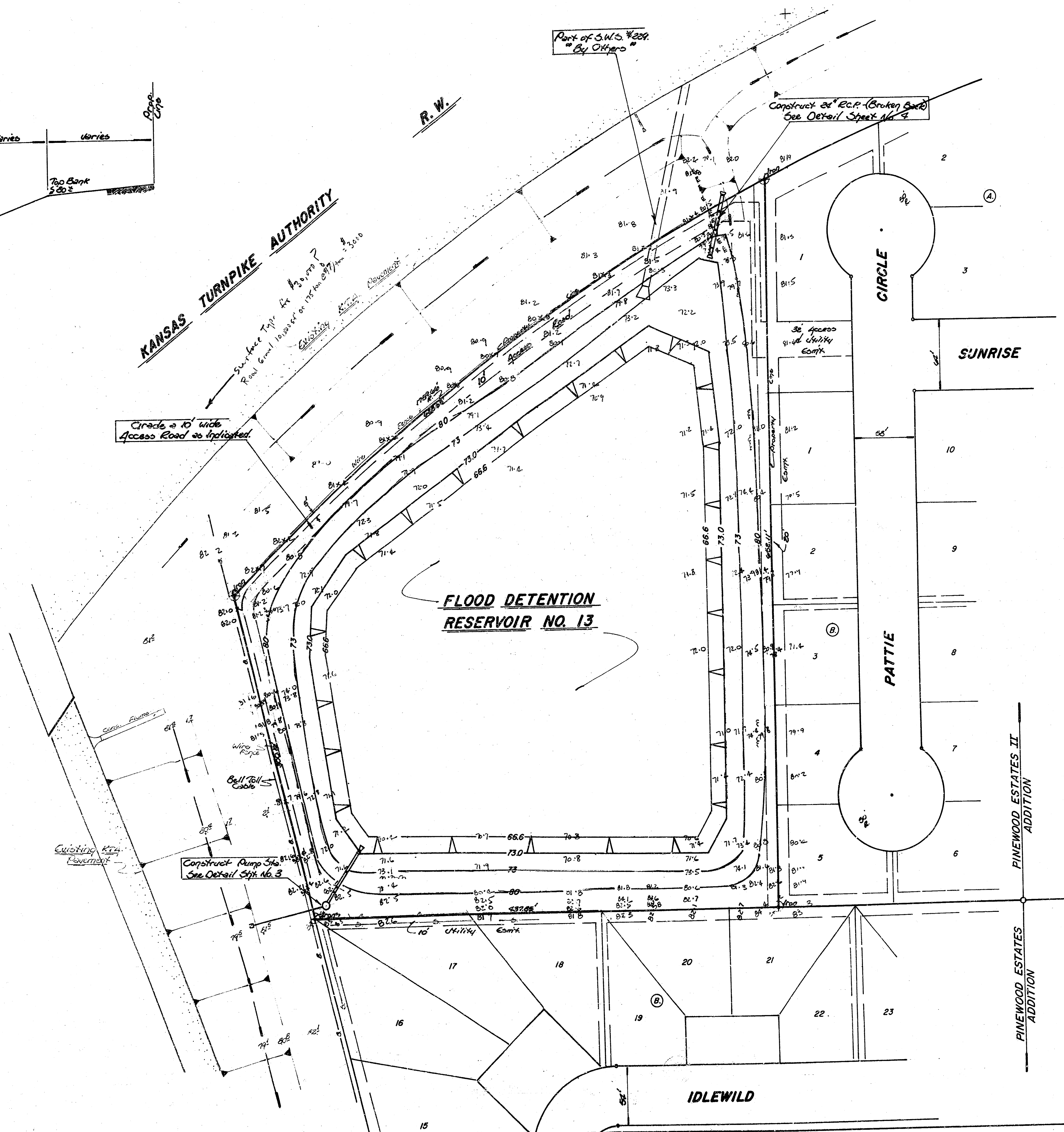
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/263-7271 • 330 LAURA • WICHITA, KANSAS 67211

FILMED FROM THE BEST
AVAILABLE COPY

B.M. 80.73 - 'a' cut in top cb. N. End RC. in Lot 19, Blk. B, Pinewood Estates Addition.



TYPICAL SECTION
RESERVOIR SIDE SLOPE



Earthwork Quantities	
Excavation	= 12,001.8 C.Y.
+ 10 %	= 1,200.2 C.Y.
Total	= 13,202.0 C.Y.

B.M. 80.73 'a' in Top Ch. N. Exp. P.C. Lot 19, Blk. B. Pinewood Estates.

KANSAS TURNPIKE AUTHORITY

R. W.

Sta. 0+88 - Construct
60" Dia. Pump Station.

Construct 4' chain link fence
Enclosure around pump station w. 10'
swing gate opening to the North.

✓ 5% 0+20-Construct
Type II Ditch Inlet.

Note - Disturbed K.T.A.-R.W. shall be Regraded to original elevations, then Fertilized, Seeded, and Mulched.

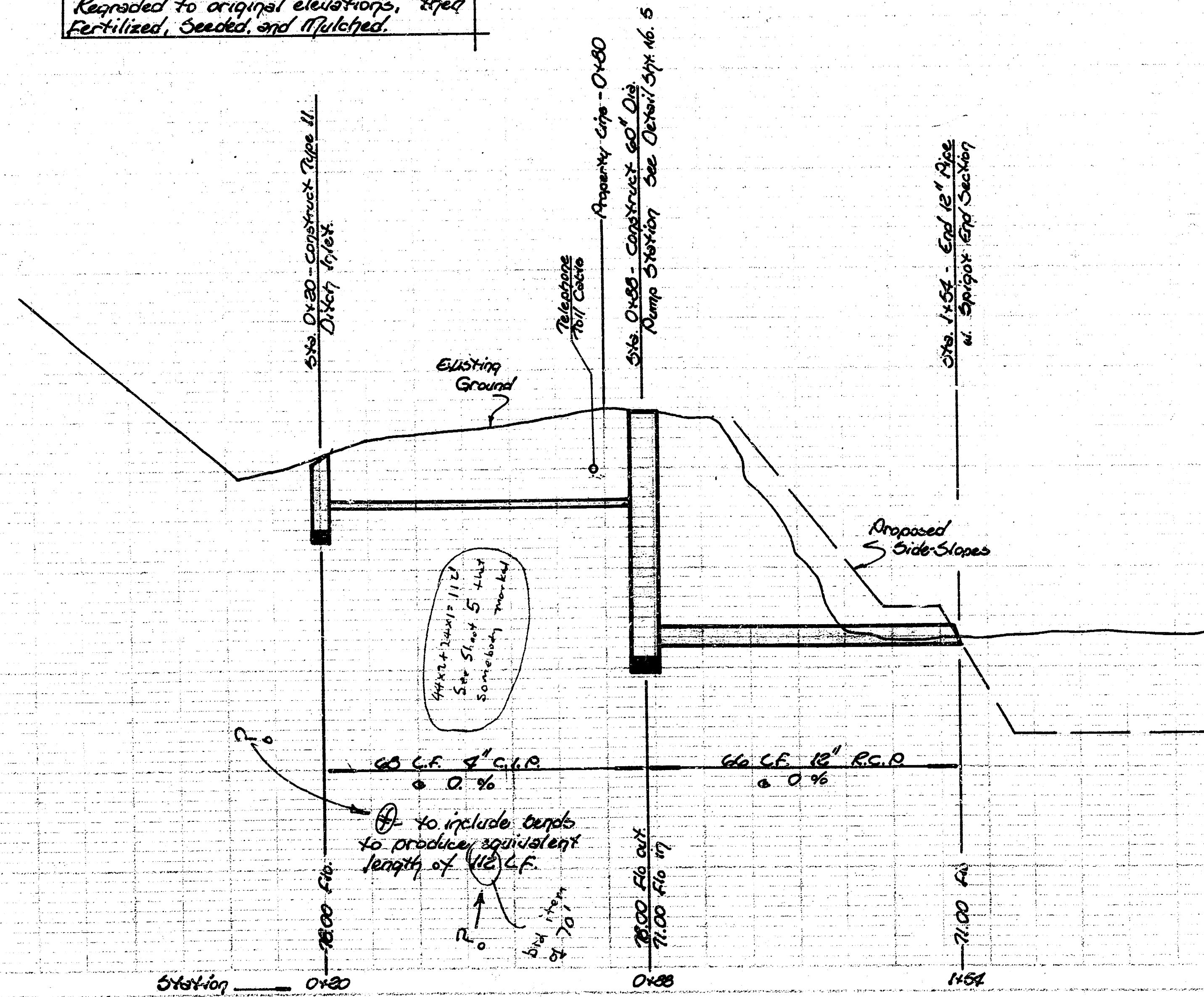
Sta. 1+54. End 12" Pipe
Installation w. End Section

Scale: $1'' = 20'$
 $1'' = 5'$ vert.



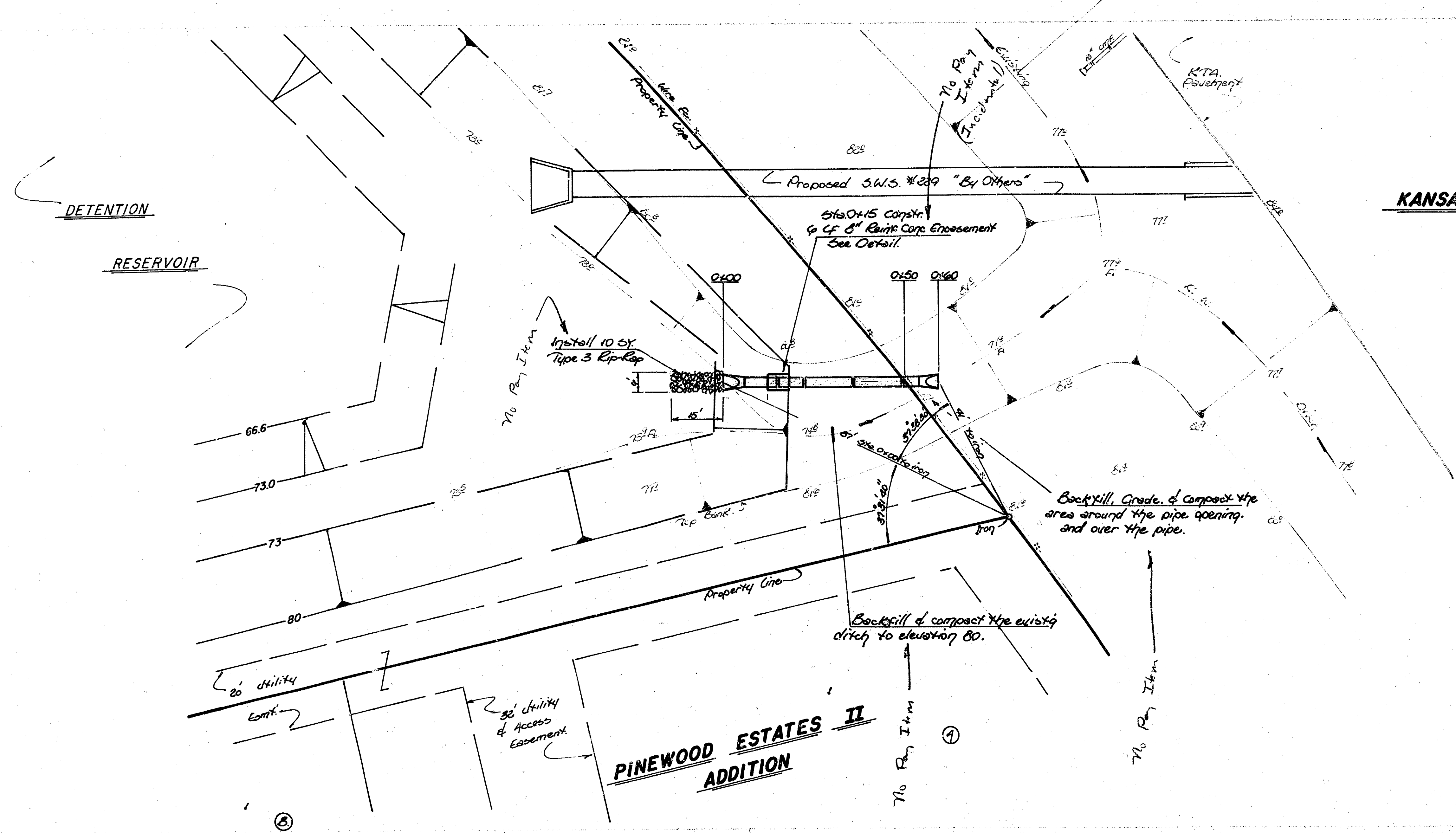
75

70



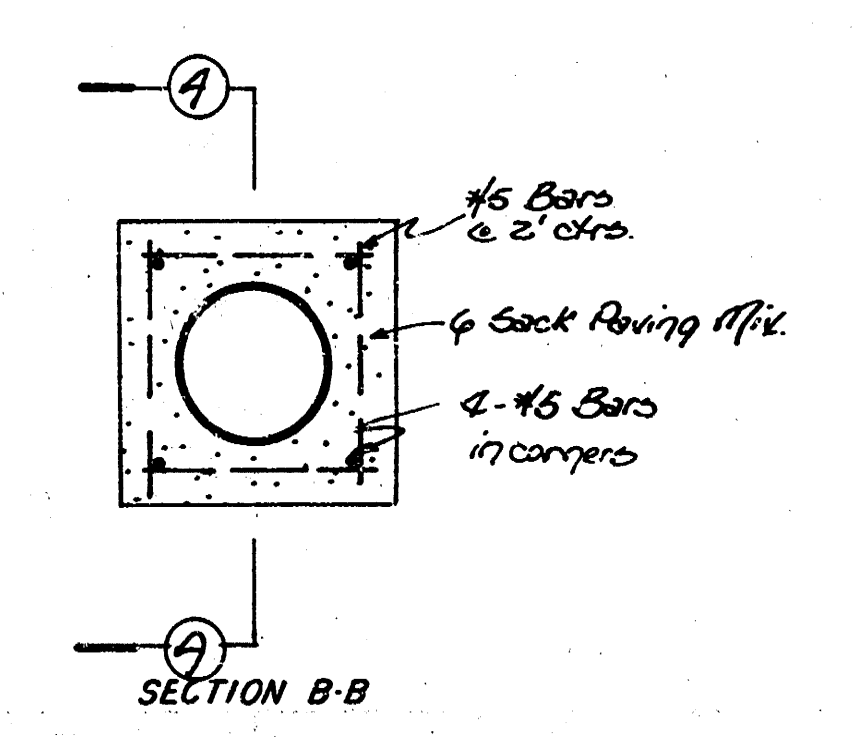
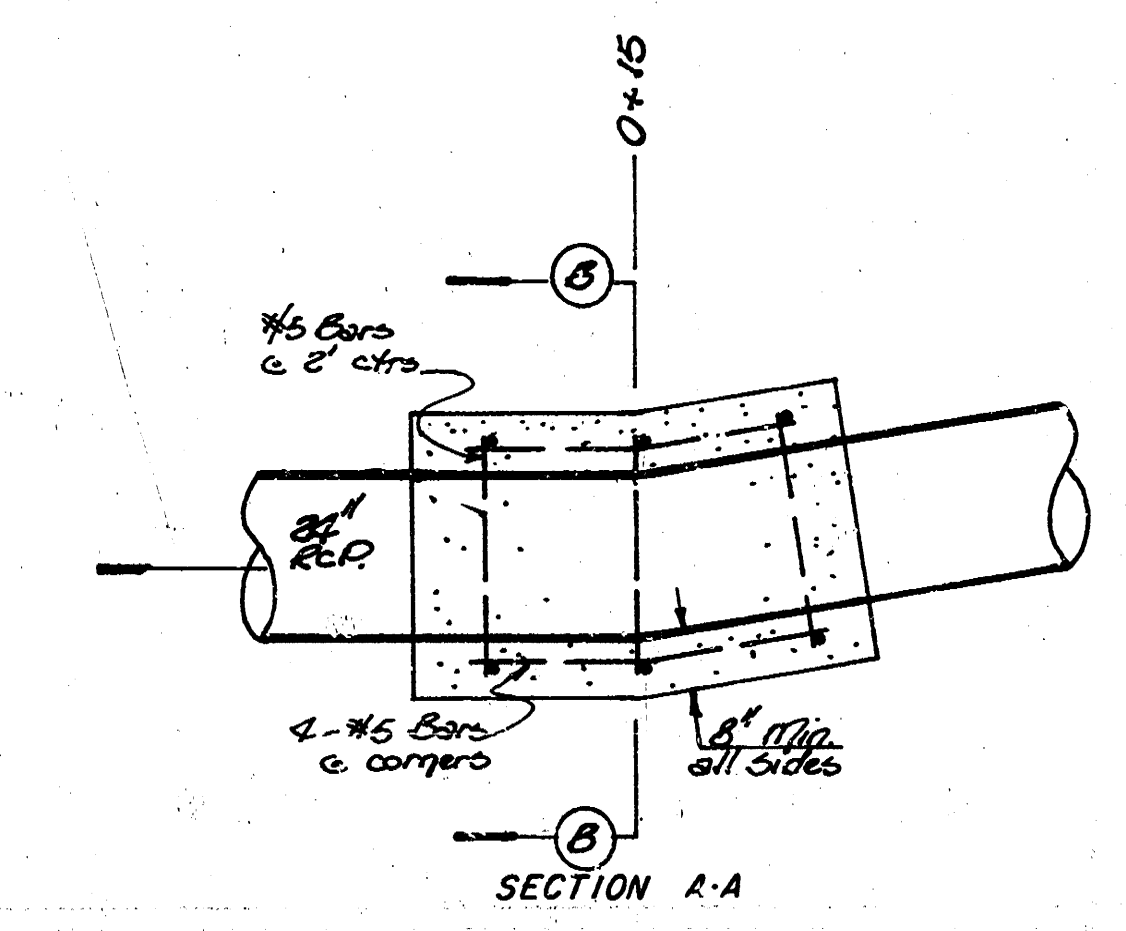
PUMP STATION PLAN-PROFILE

$$\frac{3}{12}$$

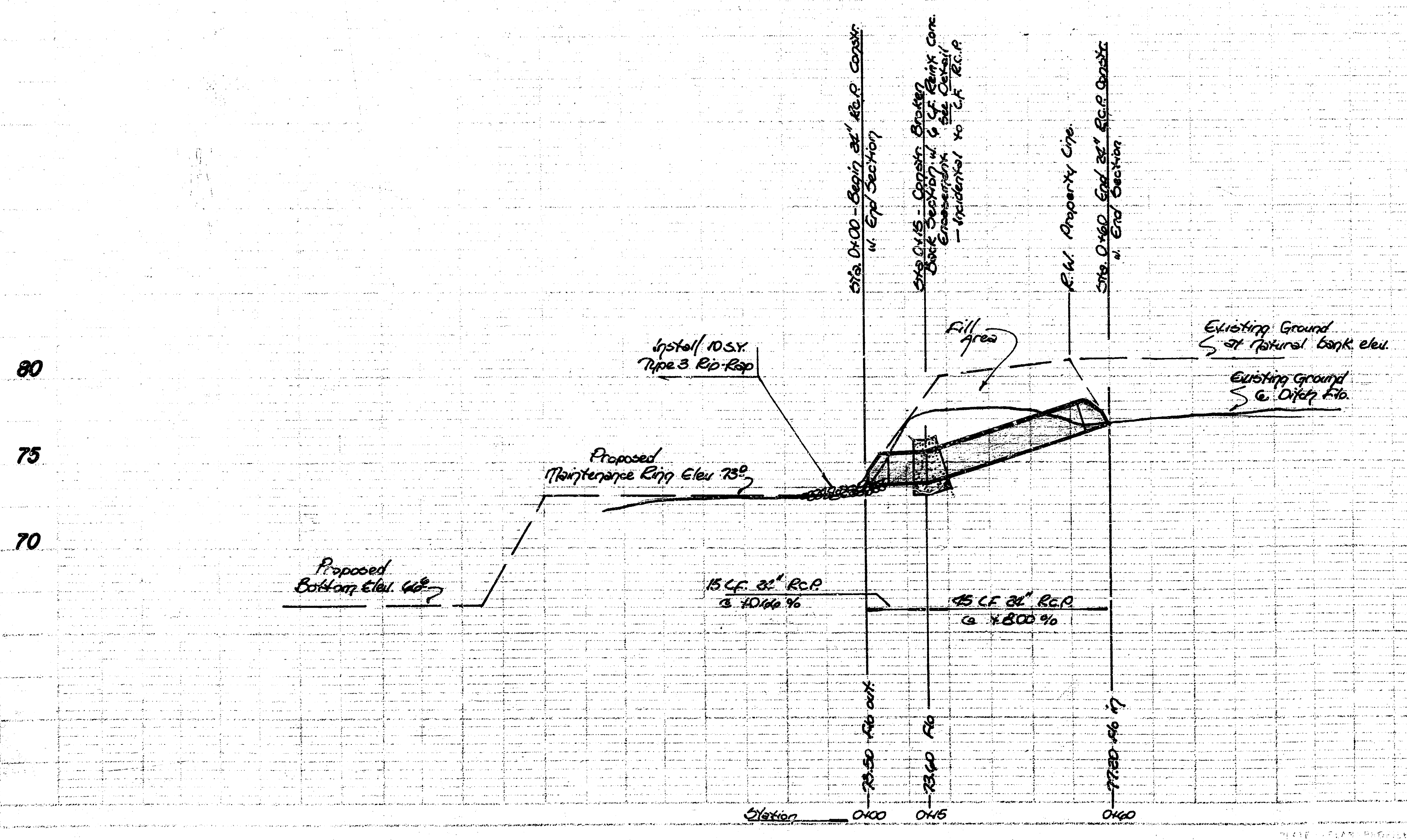


KANSAS TURNPIKE AUTHORITY
R.W.

Scale:
 Plan - 1" = 20'
 Profile - 1" = 20' V.E.
 1" = 5' H.E.

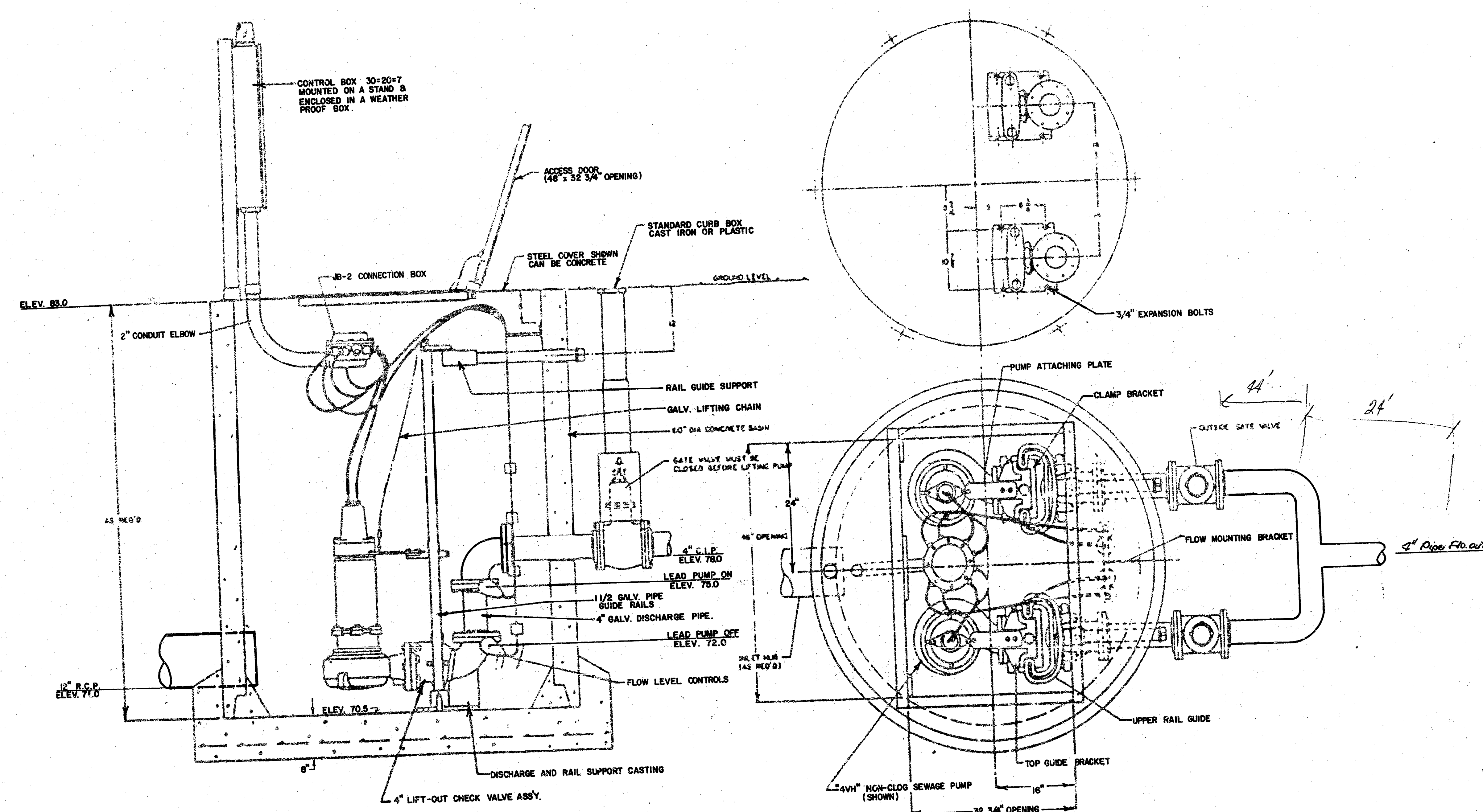


REINFORCED CONCRETE ENCASEMENT
DETAIL
 * Incident to C.F. R.C.P.



PIPE ENTRANCE DETAIL

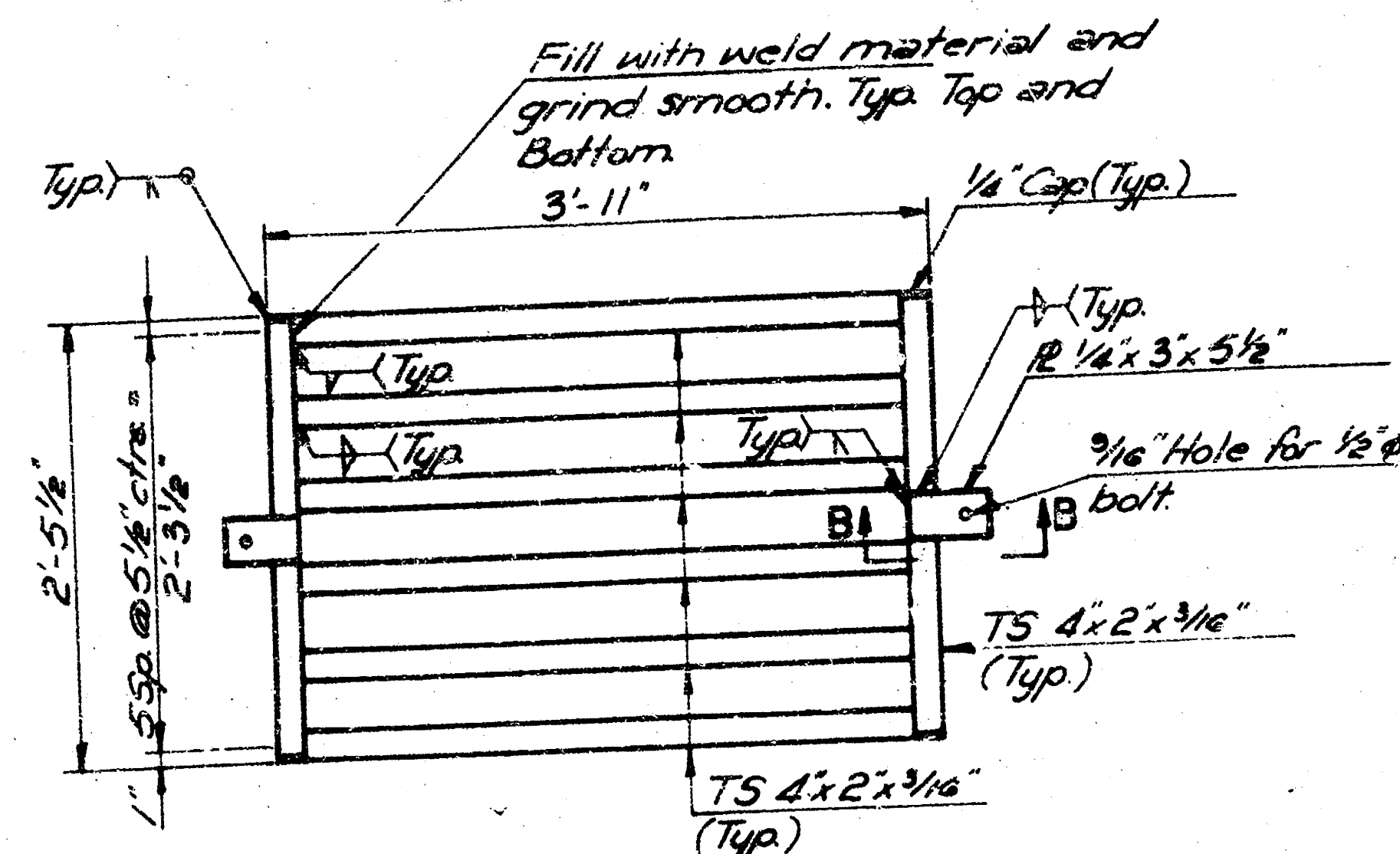
TYPICAL INSTALLATION 60" DIA. CONCRETE BASIN, DUPLEX



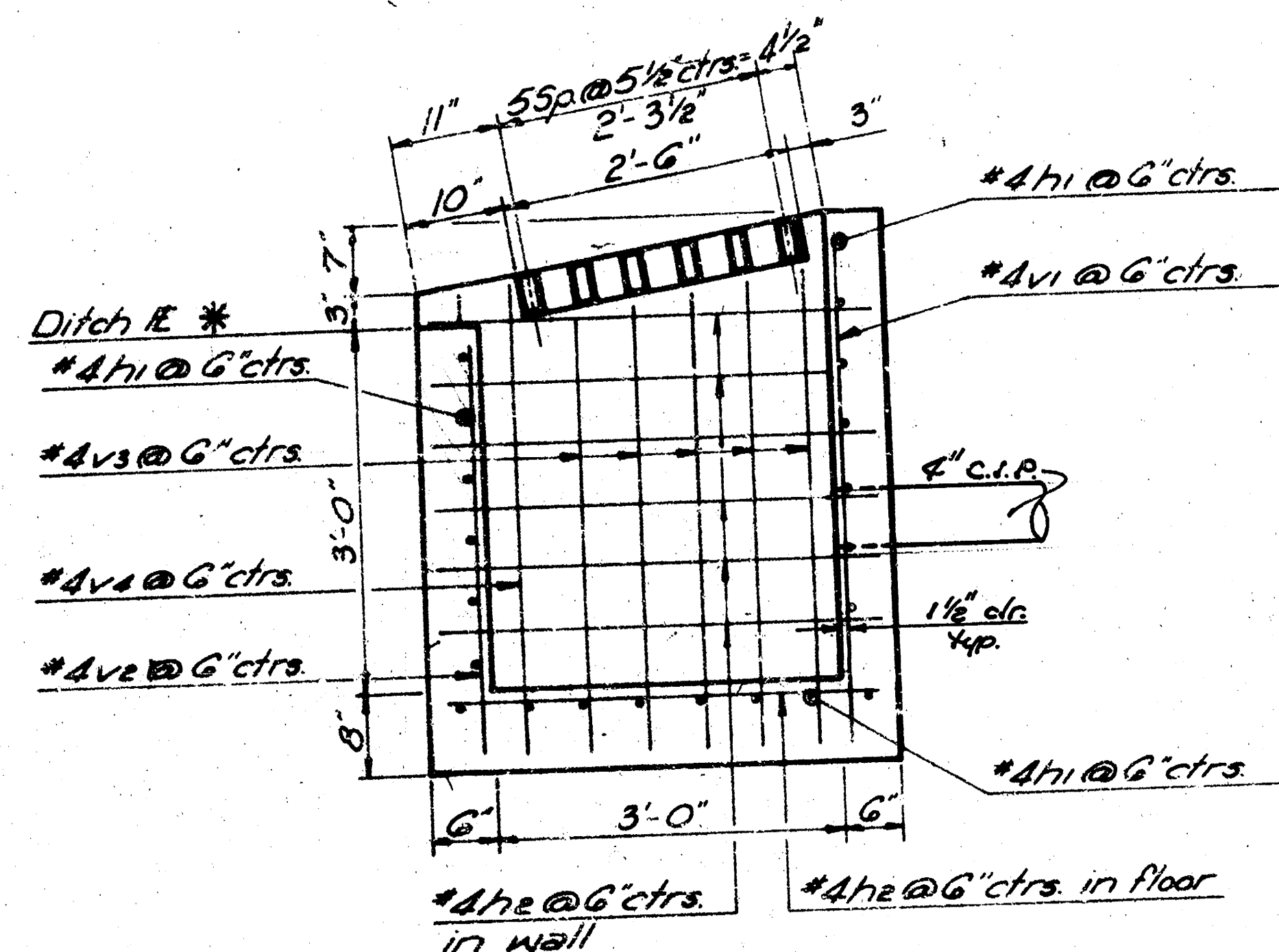
NOTE - THE PUMP STATION EQUIPMENT SHALL BE THE MEYERS CO. DESIGNED AND MANUFACTURED PUMPING SYSTEM. THE DUAL PUMPS SHALL BE THE V-SERIES PUMP (3 HP - 1760 R.P.M.)

PUMP STATION DETAIL

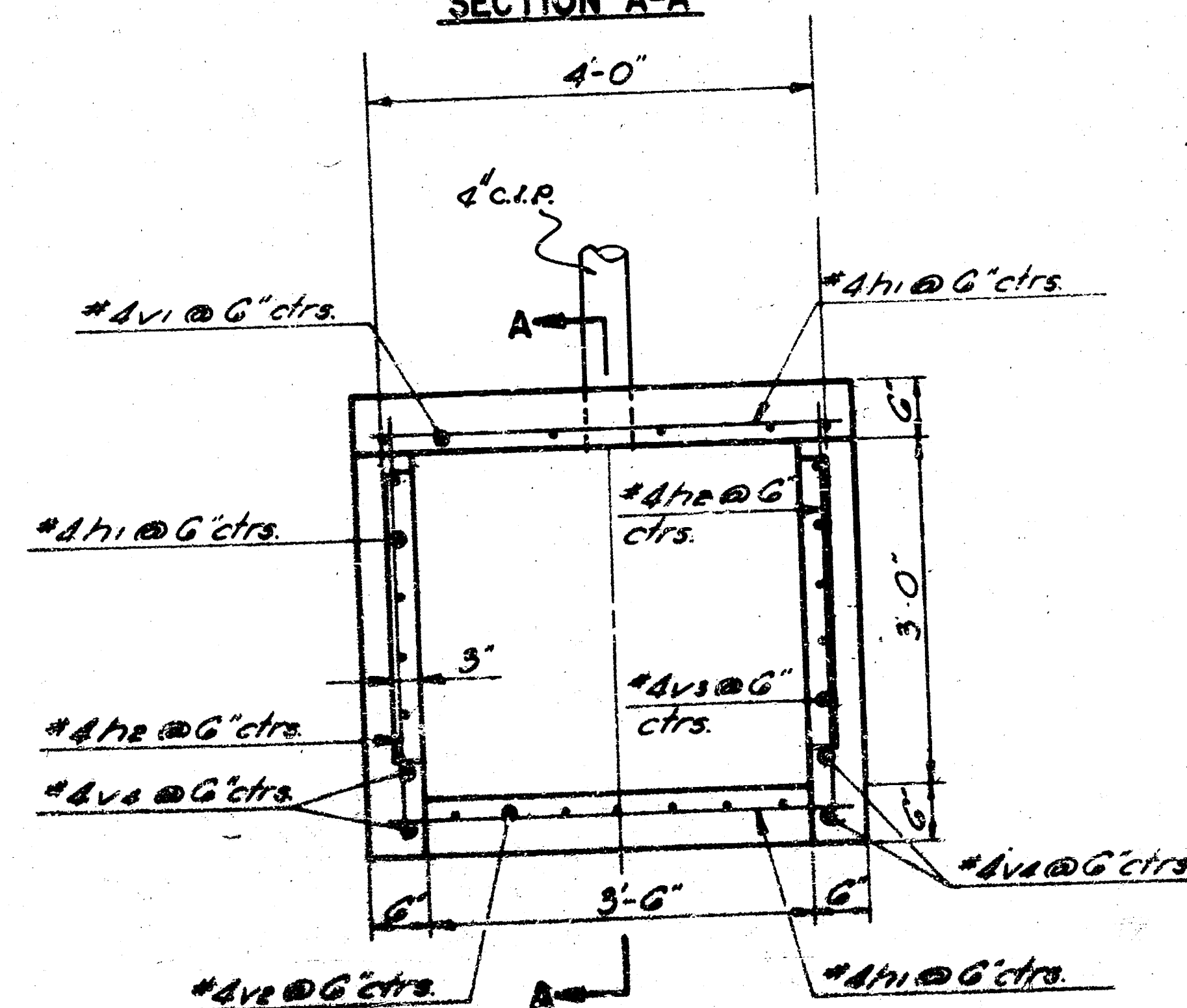
5/12



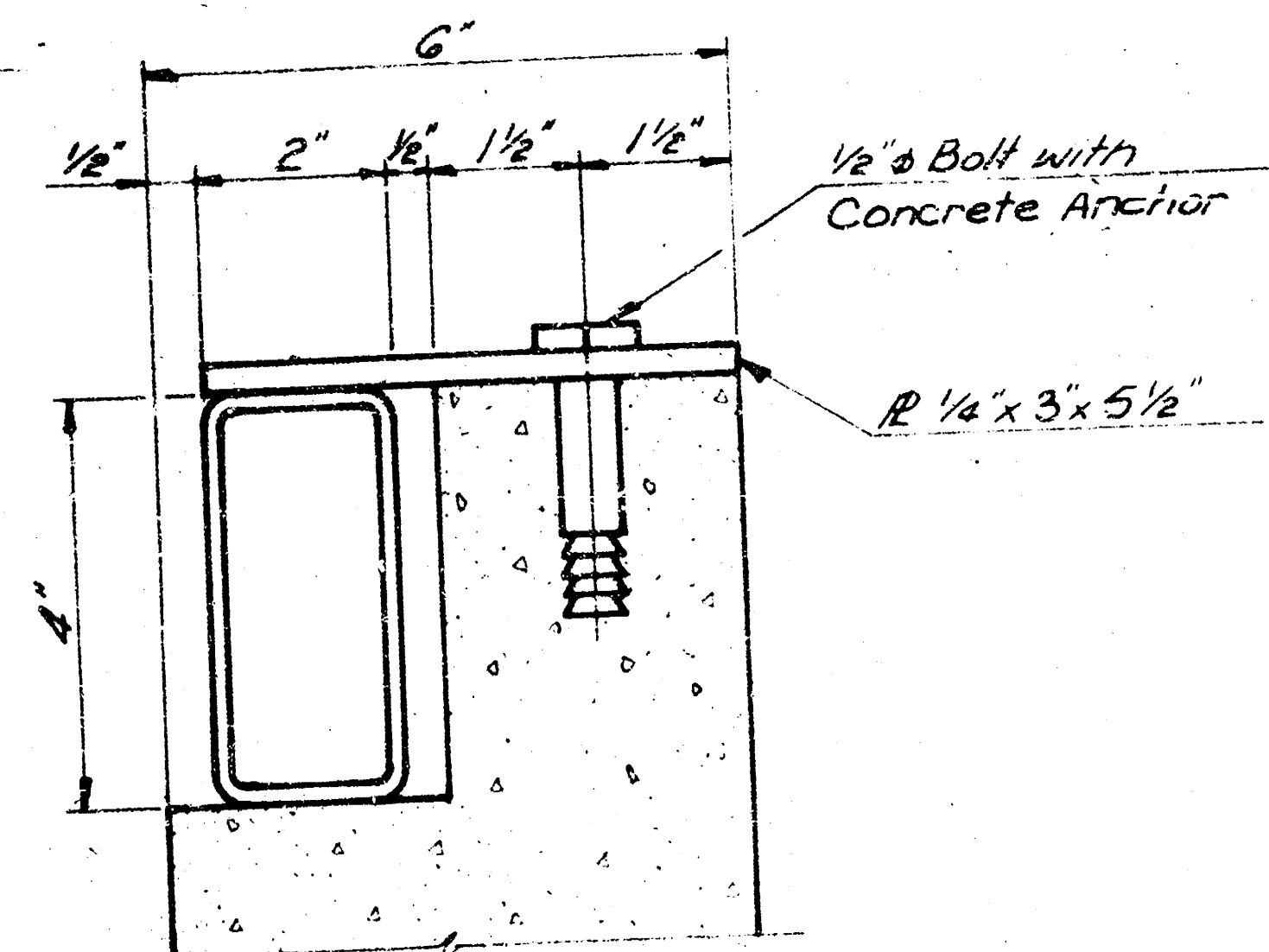
METAL GRATE PLAN
WT. 185 Lbs.



SECTION A-A



PLAN INLET (TYPE II DITCH)



SECTION B-B

Varies from 3'-5" to 3'-9" @ 1" increments
* v2 Cut 2 each length

REINFORCING STEEL FOR SPECIAL INLET TYPE II						
Bar	h1	h2	v1	v2	v2	v2
Number	21	21	9	7	10	4
Size	#4	#4	#4	#4	#4	#4
Length	4'-2"	3'-0"	6'-2"	3'-4"	#	3'-7"

SUMMARY OF QUANTITIES FOR SPECIAL INLET TYPE II	
Class III Excavation	7 cu yds
Class A Concrete (Misc.)	11 cu yds
Reinforcing Steel	185 Lbs.
Structural Steel	185 Lbs.

GENERAL NOTES

All concrete shall be either Class A or Class A(AE) at the contractor's option. Bevel all exposed edges with a 3/4" triangular moulding.
No deductions in concrete quantities shall be made for pipe openings.

No additions in concrete quantities shall be made for shaping floor of Inlets.

All dimensions relative to placement of reinforcing steel are to centerline of bars unless otherwise noted.
Structural Tubing shall conform to ASTM A501. All plates and angles shall conform to ASTM A36.

The Structural Steel Grate shall be painted either in the shop or in the field with one coat of zinc dust paint, followed by two field coats of aluminum paint.

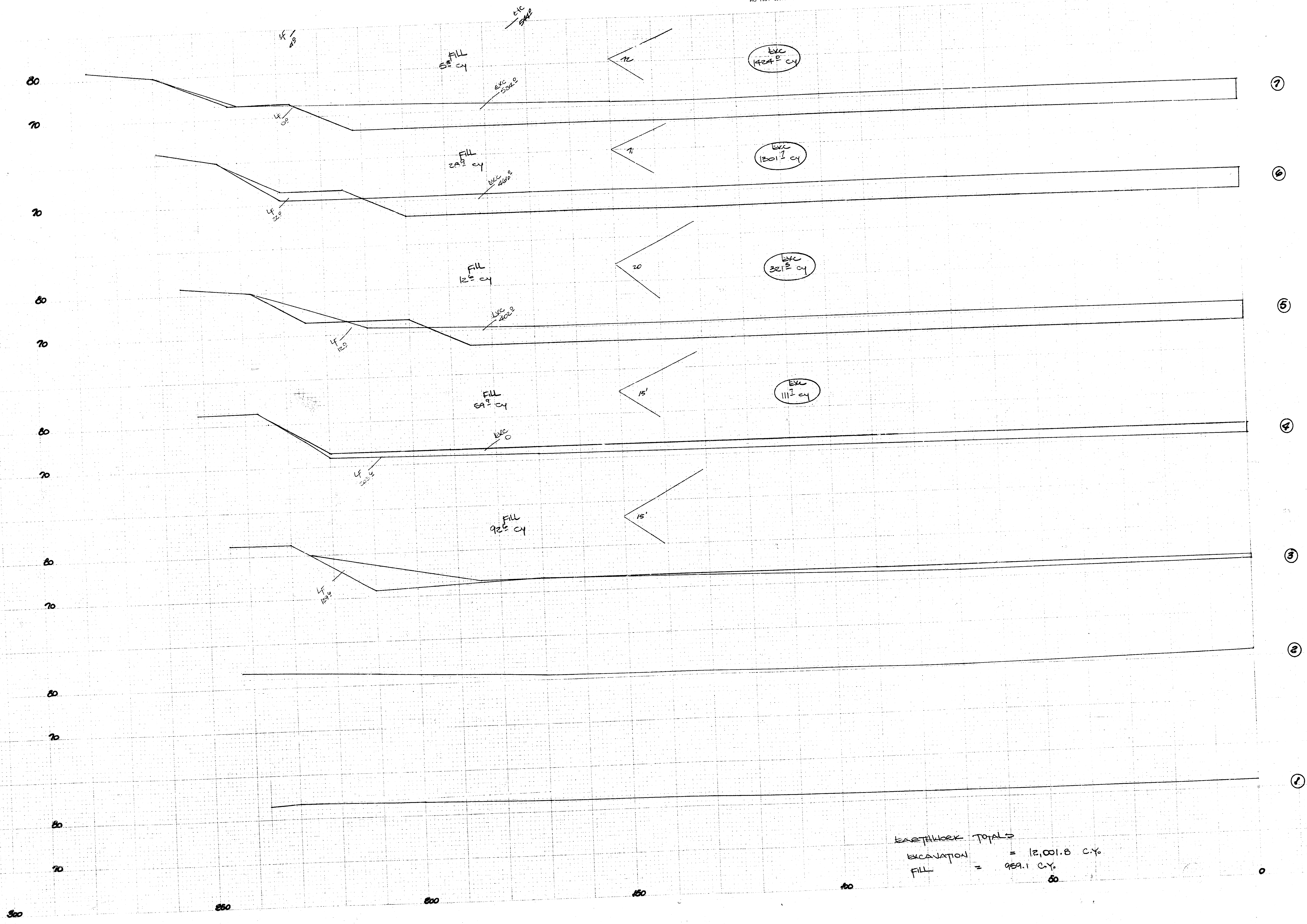
Weight shown per Grate is computed with no allowance for fillets, welds, or overruns.

The wall reinforcing steel in the Special Inlet Type II shall be bent or field cut to allow for installation of storm sewer pipe.

All welds shall be 3/16" fillet unless otherwise noted.

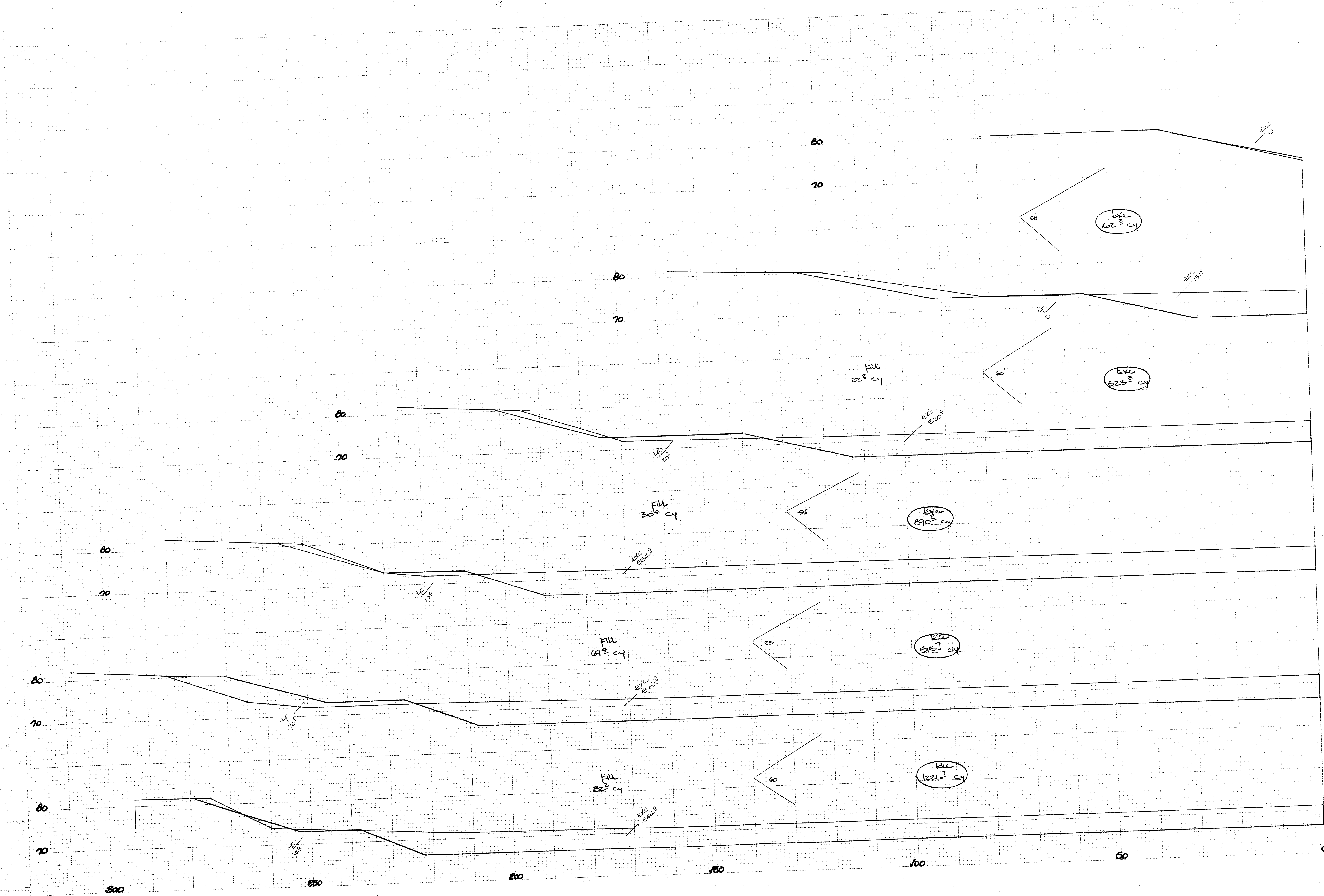
TYPE II OUTFLOW DITCH INLET DETAIL

MADE IN U.S.A.
 CREVIERE & BYER CO.
 NO. 134-45012 SECTION 10 x 10



EARTHWORK TOTALS
 EXCAVATION = 12,001.8 C.Y.
 FILL = 959.1 C.Y.

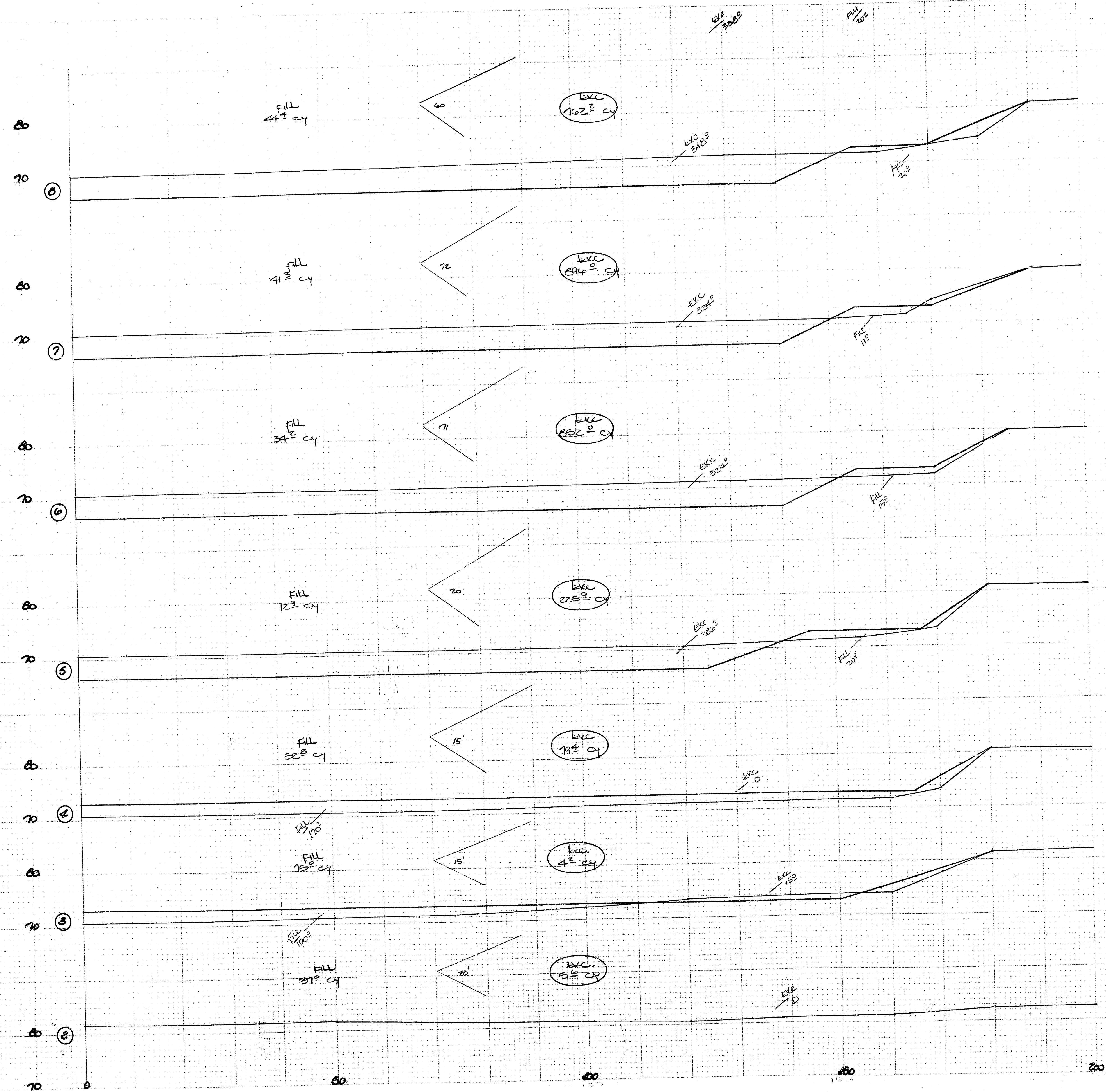
2/12

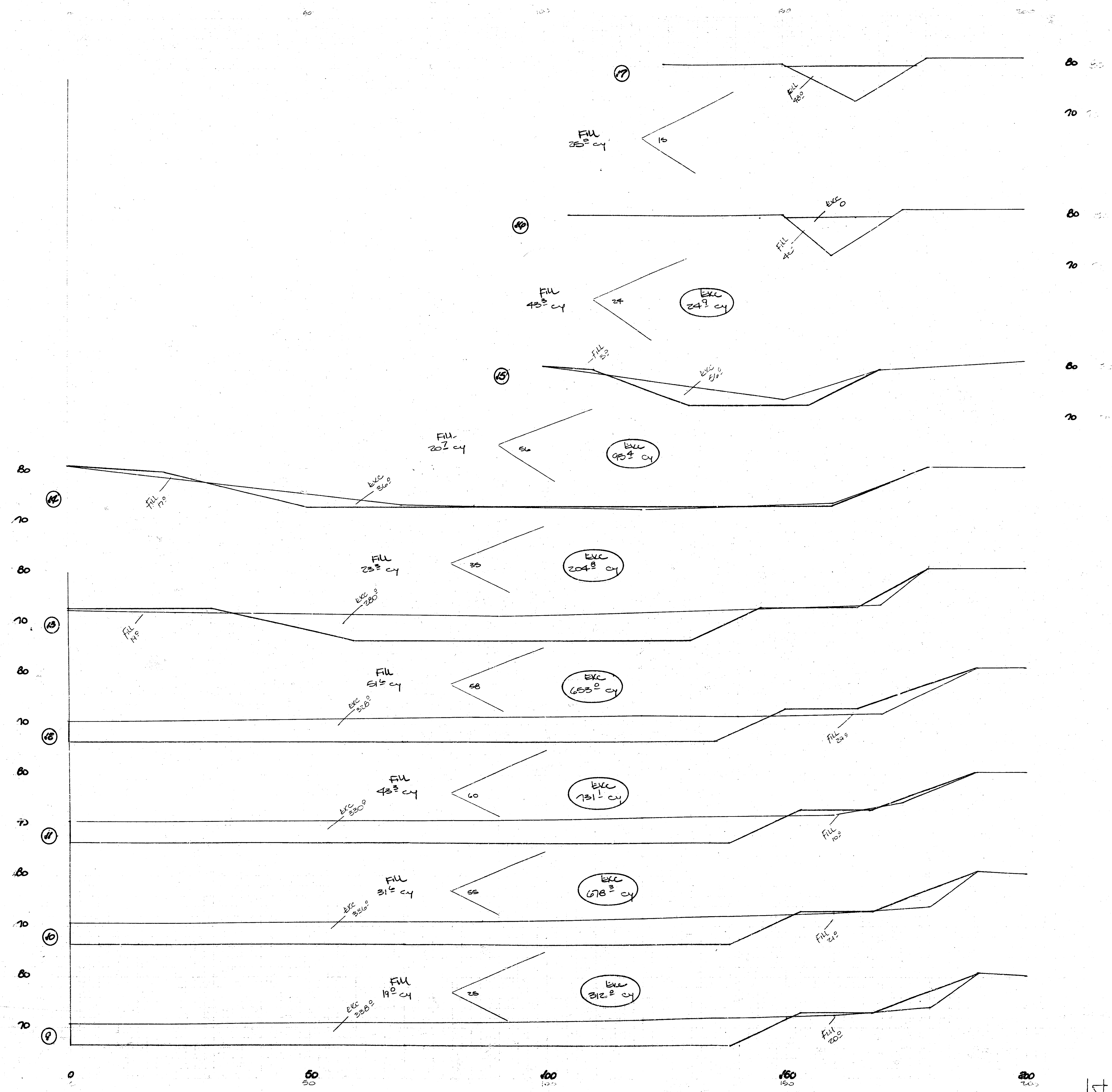


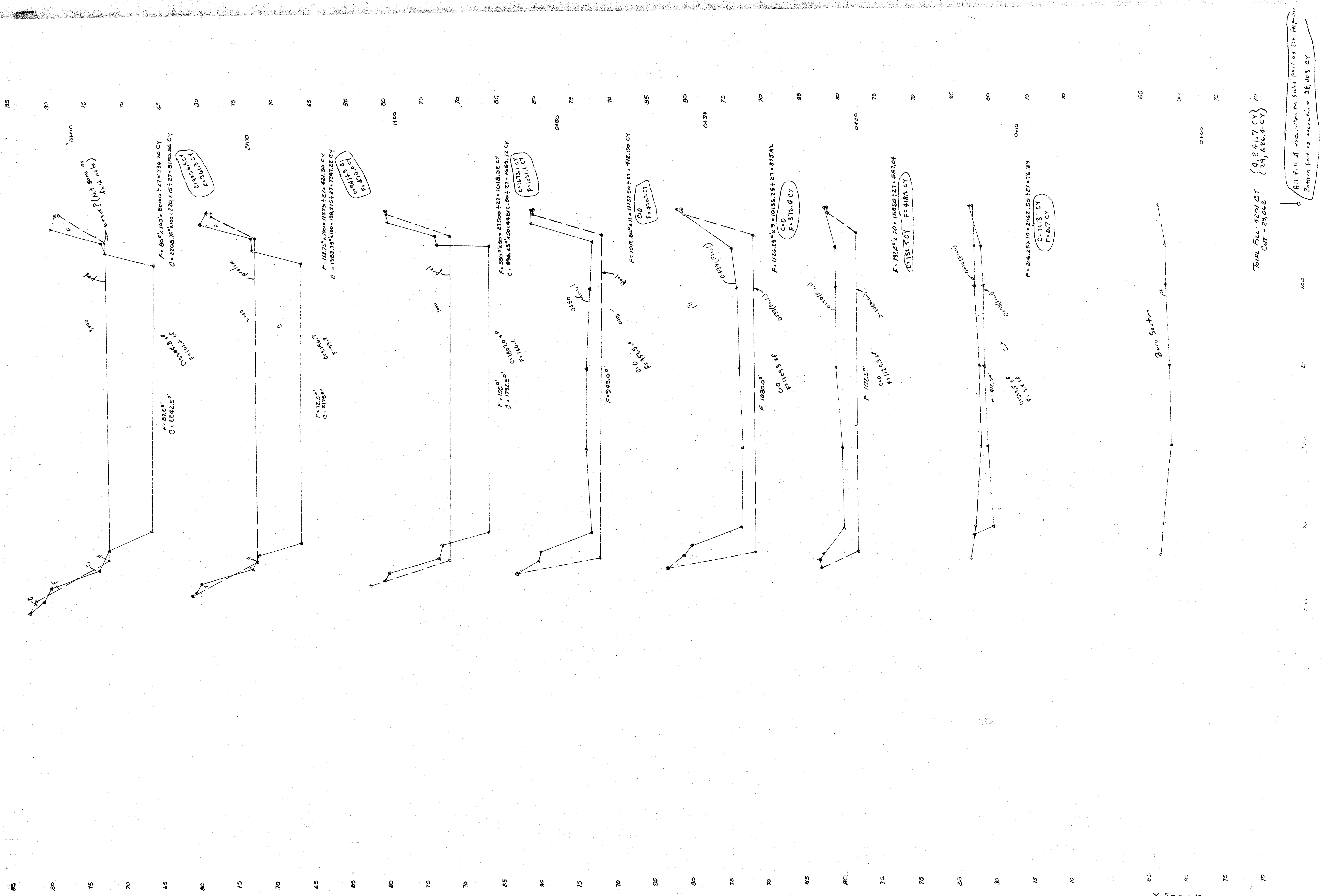
13
12
11
10
9
8

8/12

MADE IN U.S.A.
CLEVELAND, OHIO
CLEVELAND PAPER CO.
NO. 1134-CROSS SECTION 10 x 10



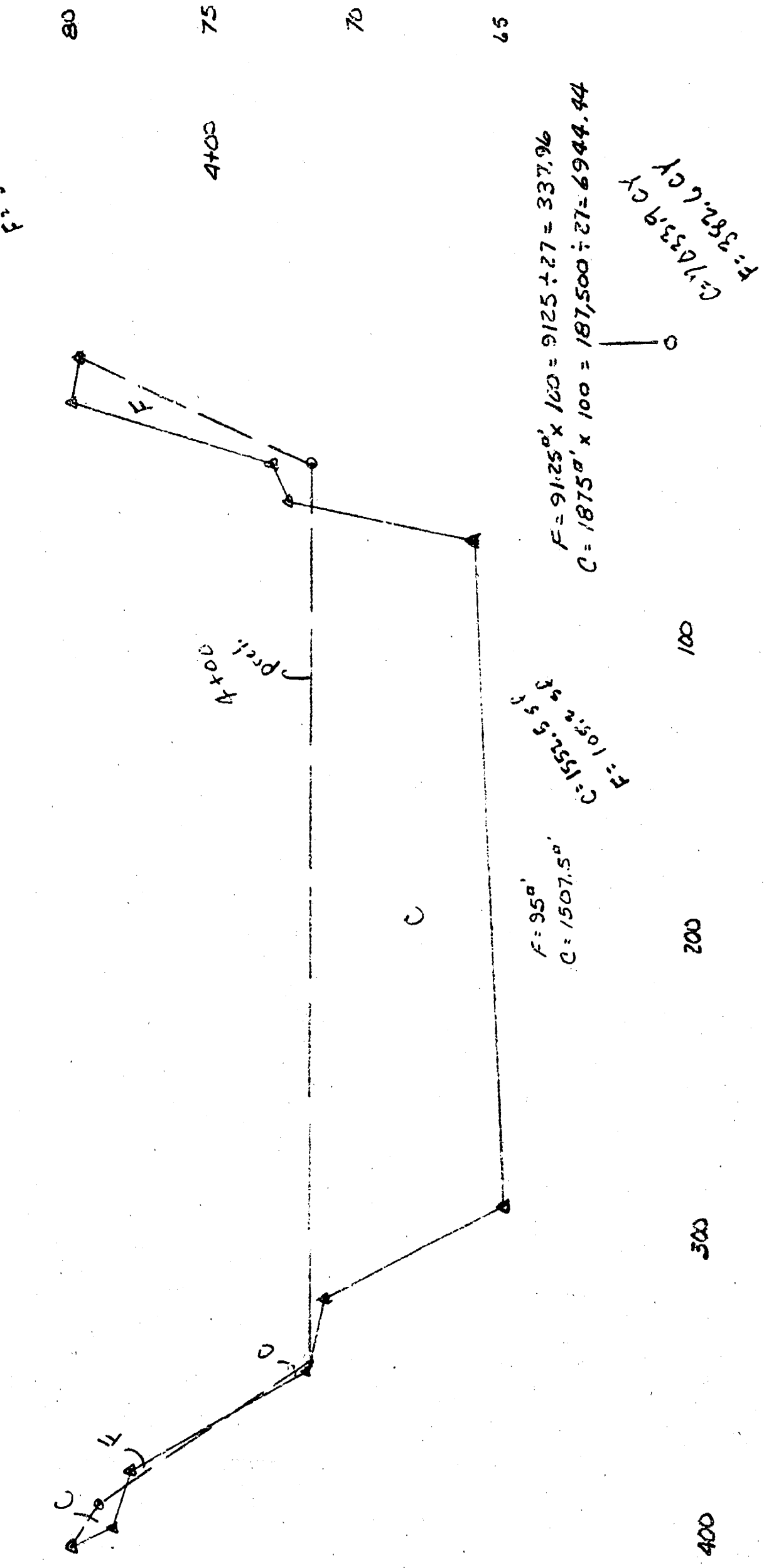
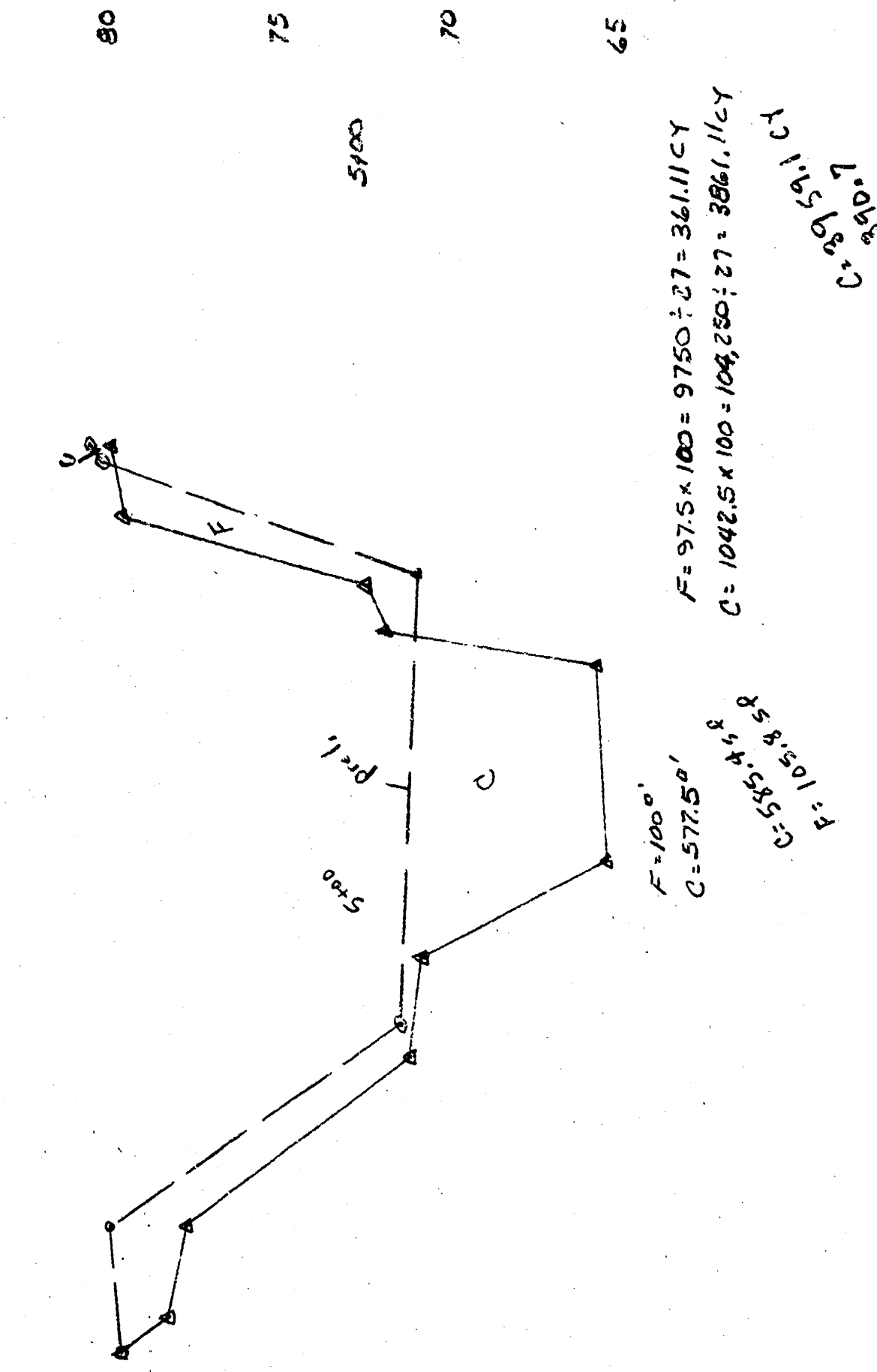
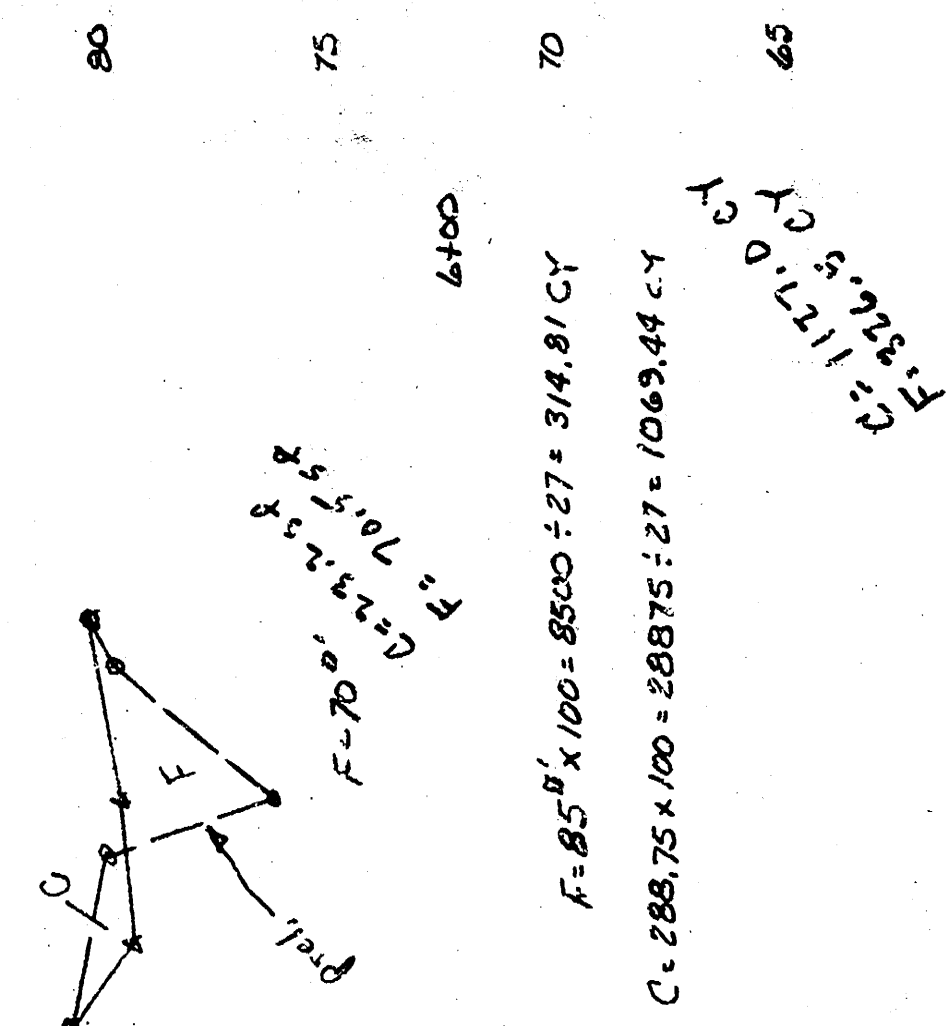




X-SECTIONS
FLOOD DETENTION RESERVOIR No. 13
SCALE 1" = 50' HORIZ.
1" = 5' VERT.

TOTAL FILL - 4201 CY (42,241.7 CY)
CUT - 29062 (24,686.4 CY)
Bottom fill as shown = 28,003 CY

Area Section @ 6+50.11
 G=32.4 CY
 F=680 CY



X-SECTIONS
 FLOOD DETENTION RESERVOIR No.13
 SCALE 1"=50' HORIZ.
 1"=5' VERT.