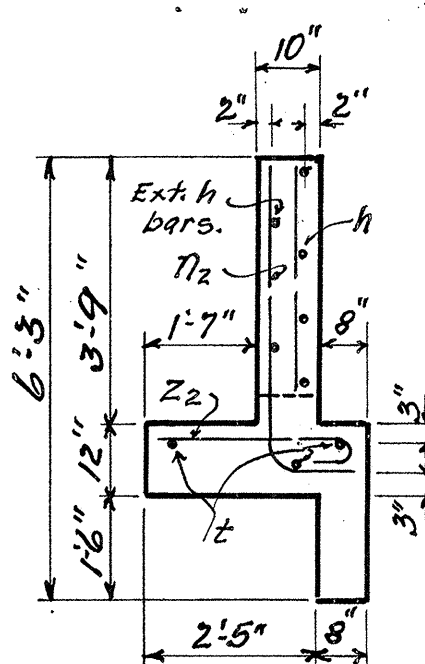
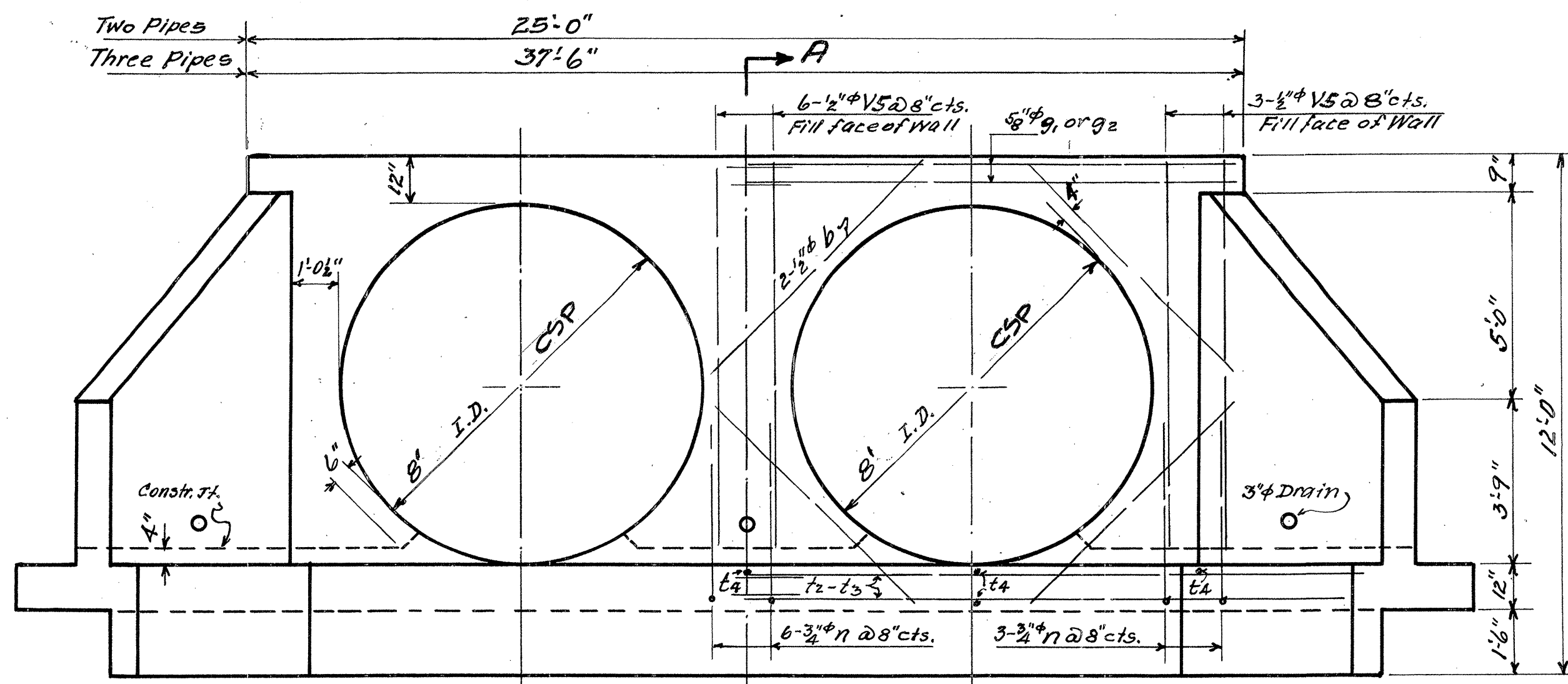


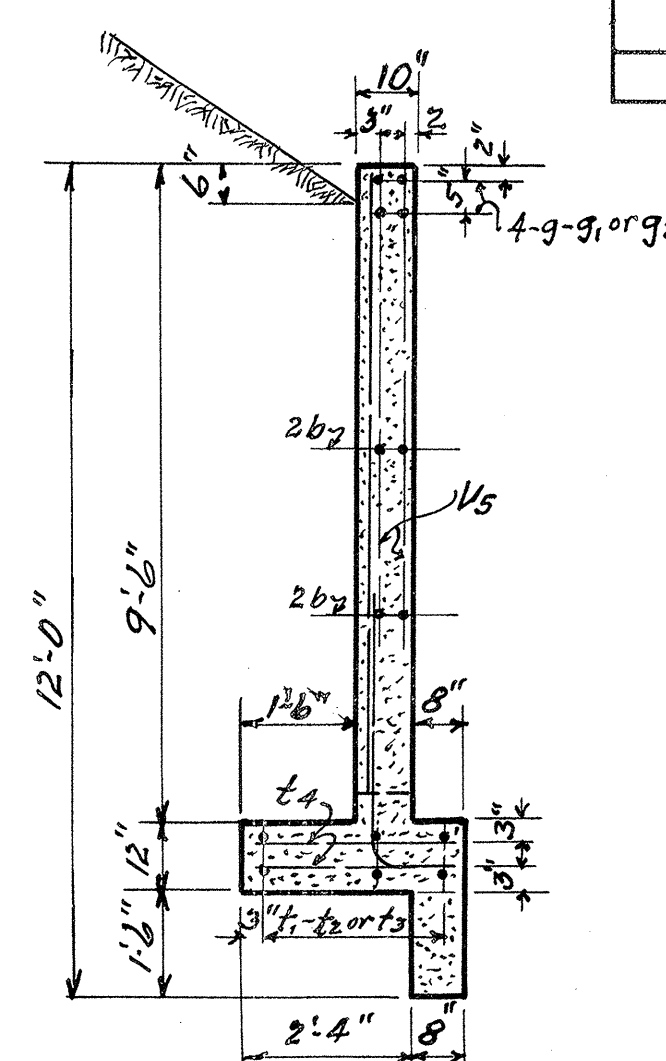
END ELEVATION



END OF WING



END ELEVATION



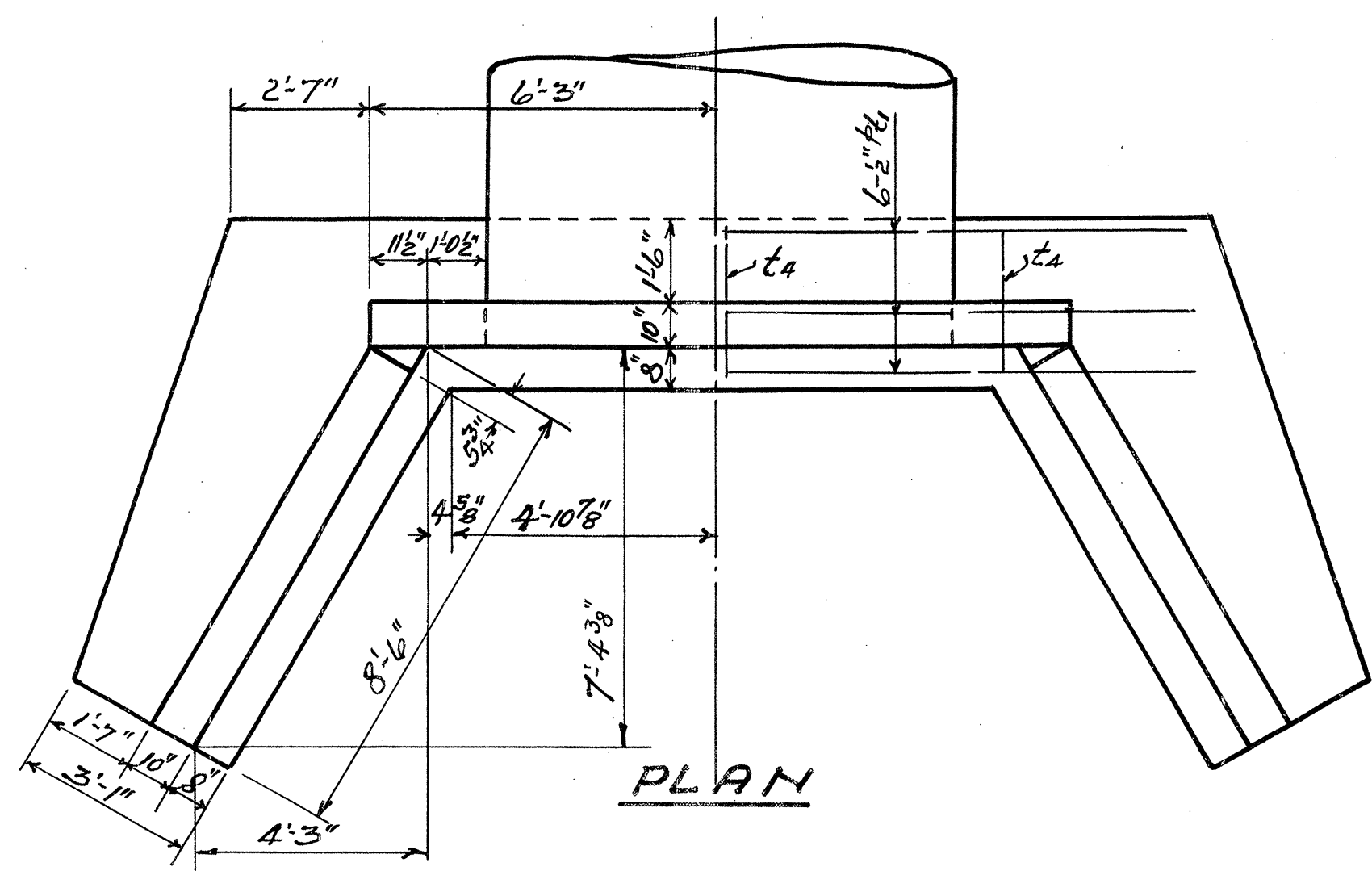
SECTION A-A FOR ALL END WALLS

- DESIGN DATA -

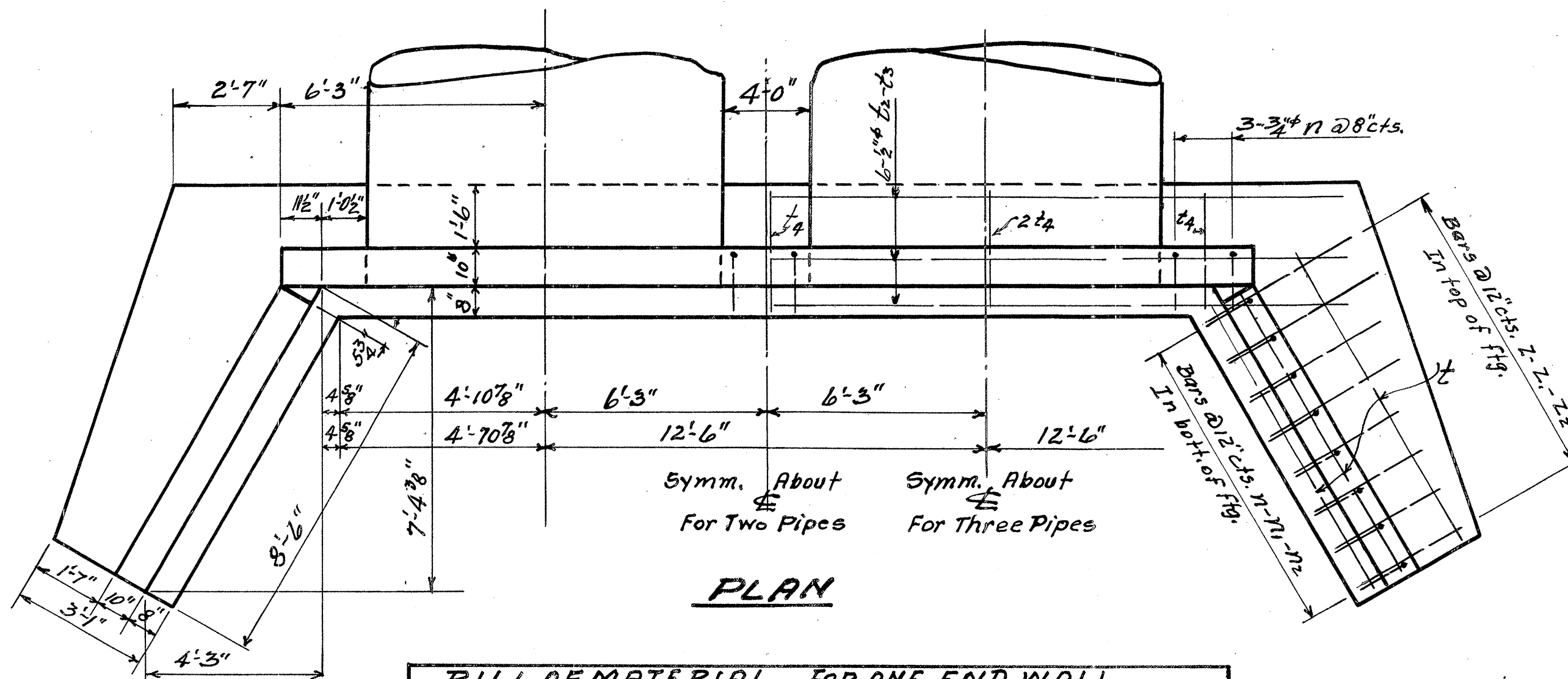
Specifications
 Steel in tension R.A.S.H.O. 19
 Concrete in compression 20,000 Lbs. per Sq. in.
 Shear Class "A" concrete 1,200 Lbs. per Sq. in.
 Equivalent fluid pressure of earth 90 Lbs. per Sq. in.
 30 Lbs. per Cu. Ft.

- GENERAL NOTE -

All concrete to be Class "A" using standard size No. 5 coarse aggregate. All reinforcing steel shall be deformed bars. All dimensions relative to reinforcement are to center of bars. Where splicing of reinforcement is necessary bars are to be lapped 45 diameters. 3/4" Drains are to be placed in wall as shown and be 6" above flowline. The footings, curtain wall and 4" of the wall shall be poured in one operation allowing no time for initial set to take place between them. The remaining portions of the wall shall be poured in one continuous operation. All exposed corners are to be chamfered 1". All material and workmanship as per Specifications of the N. C. State Highway. The following extra bars are provided for placing reinforcing steel in correct position in wings: 4t-2h, 2h3-2v, 2h2-2h4, 6t.



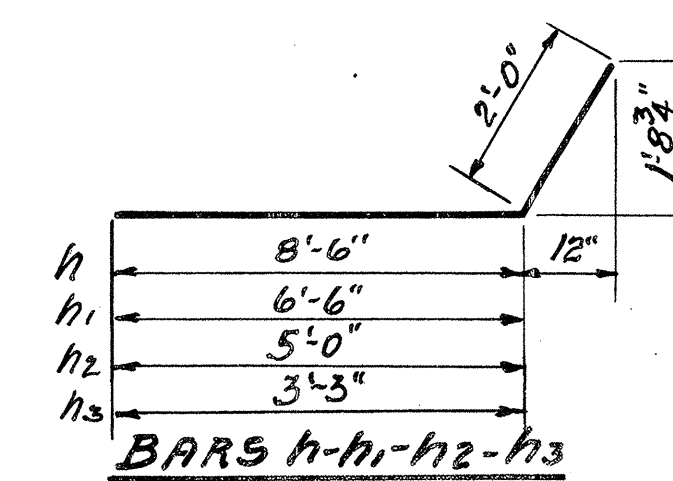
PLAN



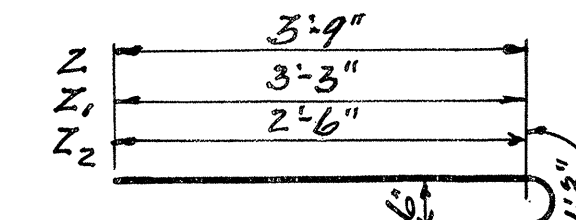
PLAN

BILL OF MATERIAL FOR ONE END WALL

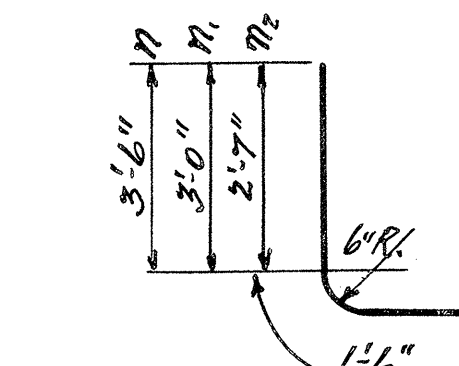
Bar	Size	Length	ONE PIPE		TWO PIPES		THREE PIPES	
			No	Weight	No	Weight	No	Weight
b	1/2"	6'-6"	8	35	16	69	24	104
g	5/8"	12'-3"	4	51				
g1	5/8"	13'-6"			8	113		
g2	5/8"	19'-9"					8	165
h	1/2"	10'-6"	12	84	12	84	12	84
h1	1/2"	8'-6"	4	23	4	23	4	23
h2	1/2"	7'-0"	2	9	2	9	2	9
h3	1/2"	5'-3"	4	14	4	14	4	14
n	3/4"	5'-0"	12	90	18	135	24	180
n1	5/8"	4'-6"	4	19	4	19	4	19
n2	1/2"	4'-1"	8	22	8	22	8	22
t	1/2"	8'-6"	6	34	6	34	6	34
t1	1/2"	17'-4"	6	69				
t2	1/2"	16'-0"			12	128		
t3	1/2"	22'-3"					12	178
t4	1/2"	2'-9"	4	7	7	13	10	18
v	1/2"	8'-0"	4	11	4	11	4	11
v1	1/2"	7'-0"	4	19	4	19	4	19
v2	1/2"	5'-6"	6	22	6	22	6	22
v3	1/2"	4'-6"	4	12	4	12	4	12
v4	1/2"	3'-3"	6	13	6	13	6	13
v5	1/2"	9'-0"	6	36	12	72	18	108
z	3/4"	5'-0"	6	45	6	45	6	45
z1	5/8"	4'-6"	4	19	4	19	4	19
z2	1/2"	3'-9"	8	20	8	20	8	20
Reinforcing steel Lbs.				654		396		1119
Class "A" Concrete Cu. Yds.				10.1		13.9		17.6



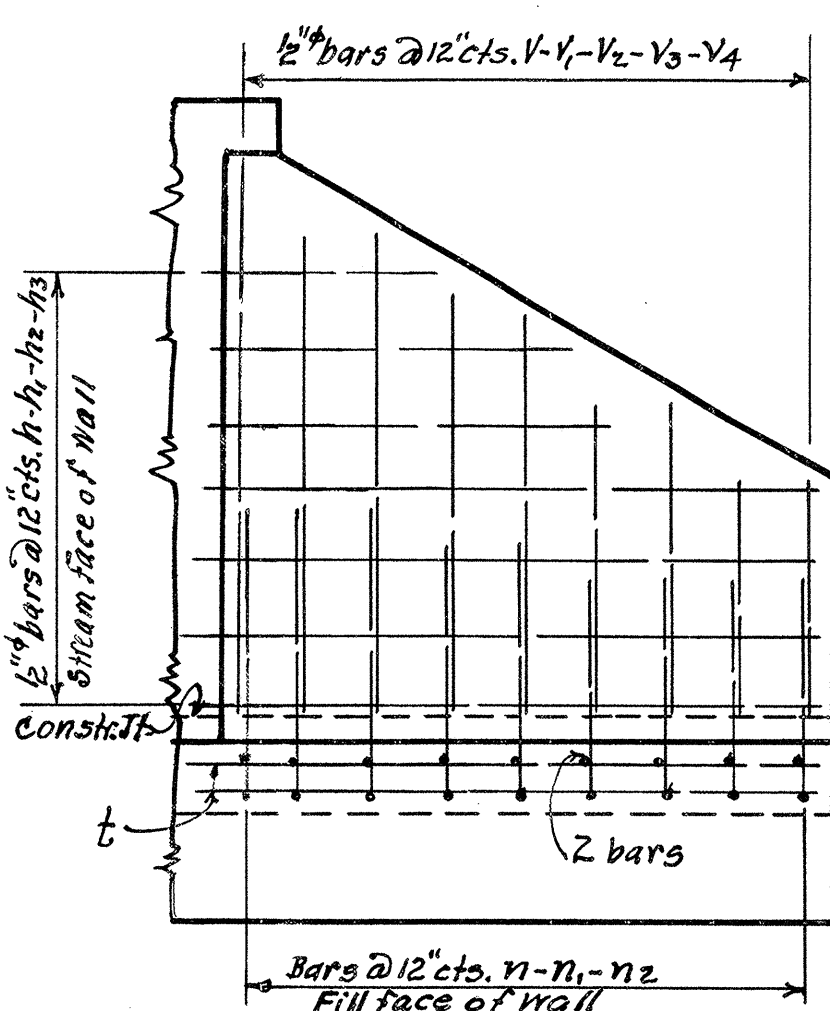
BARS h-h1-h2-h3



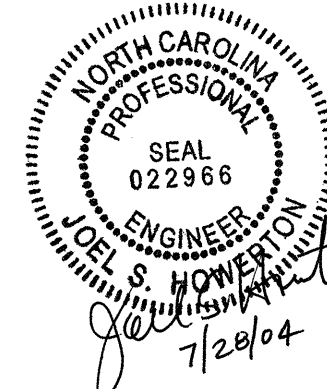
BARS z-z1-z2



BARS n-n1-n2



ELEVATION OF WING SHOWING REINFORCEMENT



PROJECT NO. _____
 COUNTY _____
 STATION: _____

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 RALEIGH
**DETAIL OF
 REINFORCED CONCRETE ENDWALL
 FOR
 96" DIAMETER PIPE 90° SKEW
 JANUARY-1951**

SUBMITTED BY: *J. S. Howard* BRIDGE ENGINEER
 APPROVED BY: *W. R. ...* STATE HIGHWAY ENGINEER DATE: 1-9-51

DESIGNED BY: <i>J. S. Howard</i> DATE: Jan. 1951
DRAWN BY: <i>J. S. Howard</i> DATE: Jan. 1951
TRACED BY: <i>J. S. Howard</i> DATE: Jan. 1951
CHECKED BY: <i>Robert G. Saper</i> DATE: Jan. 1951