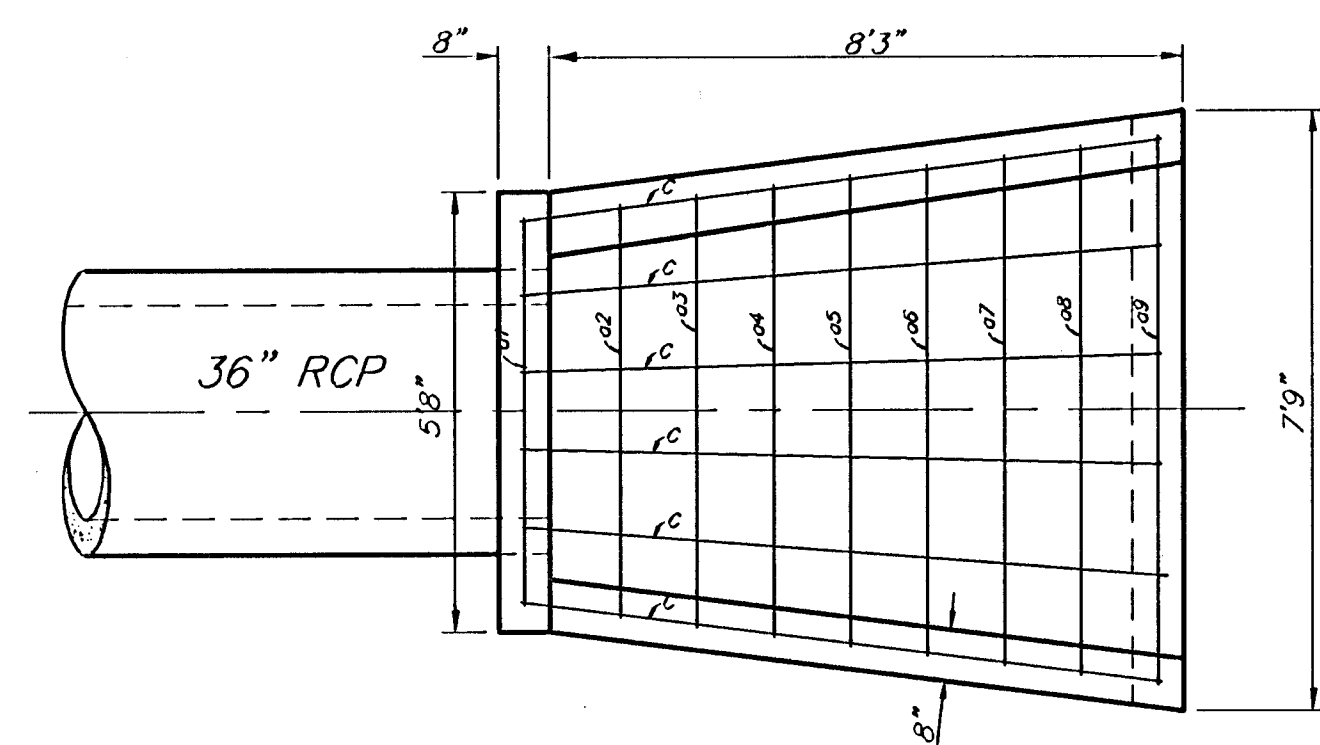
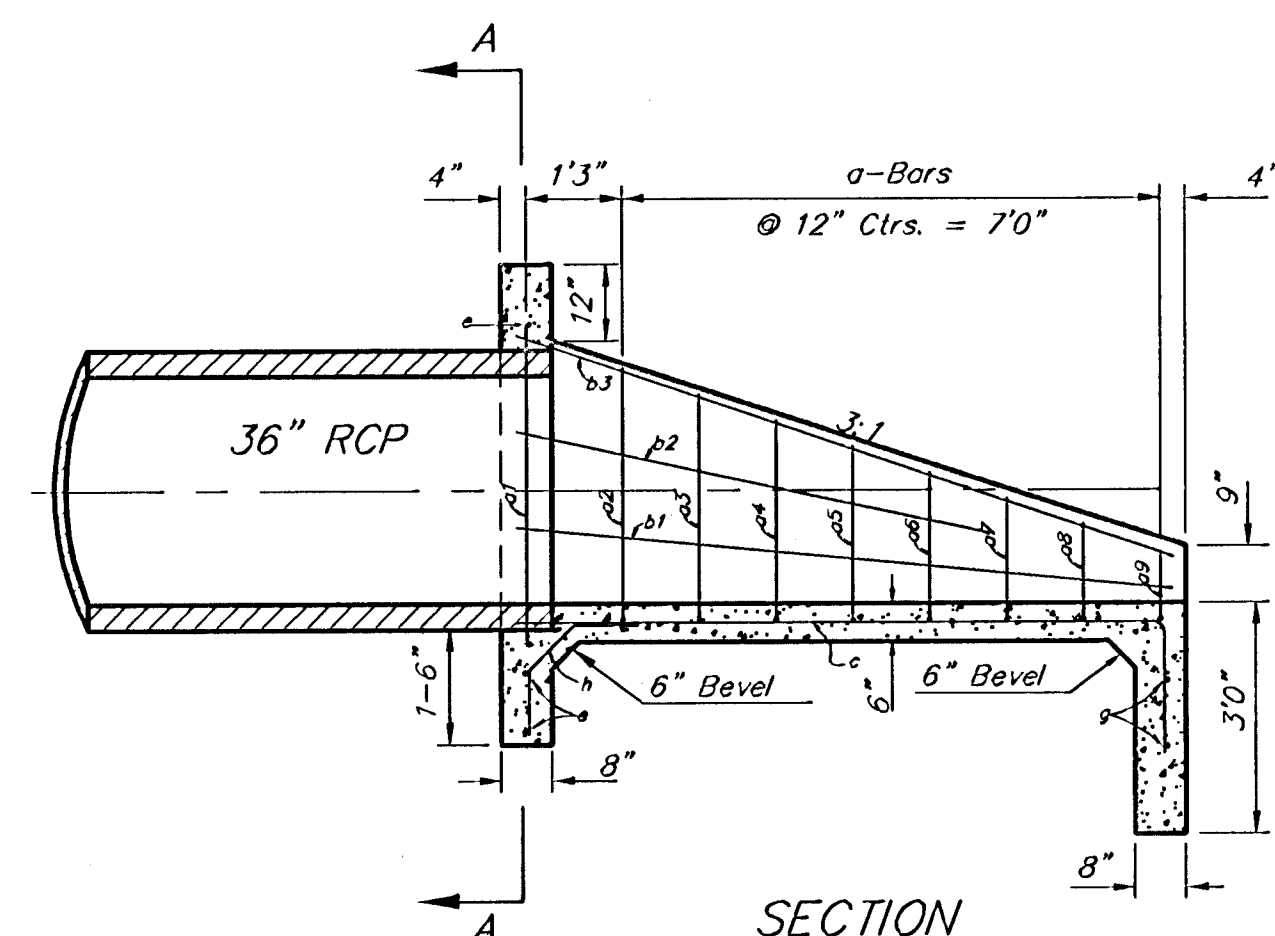
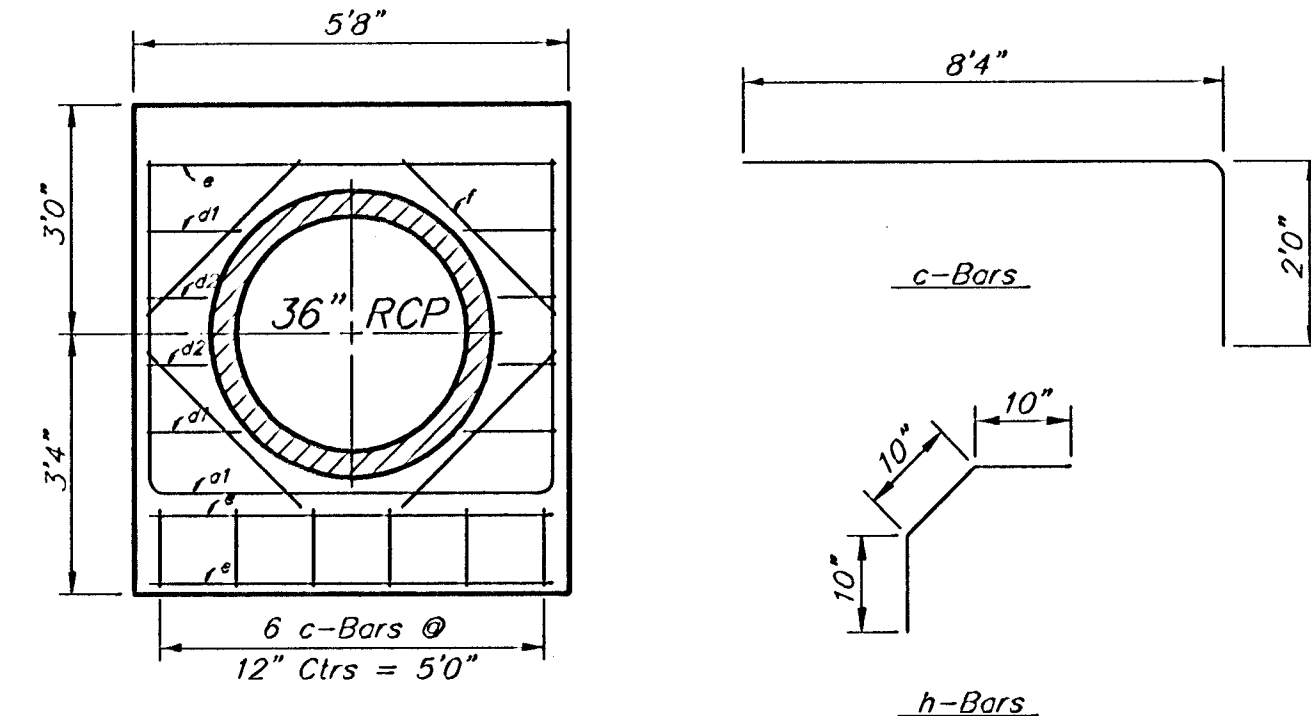




PLAN



SECTION

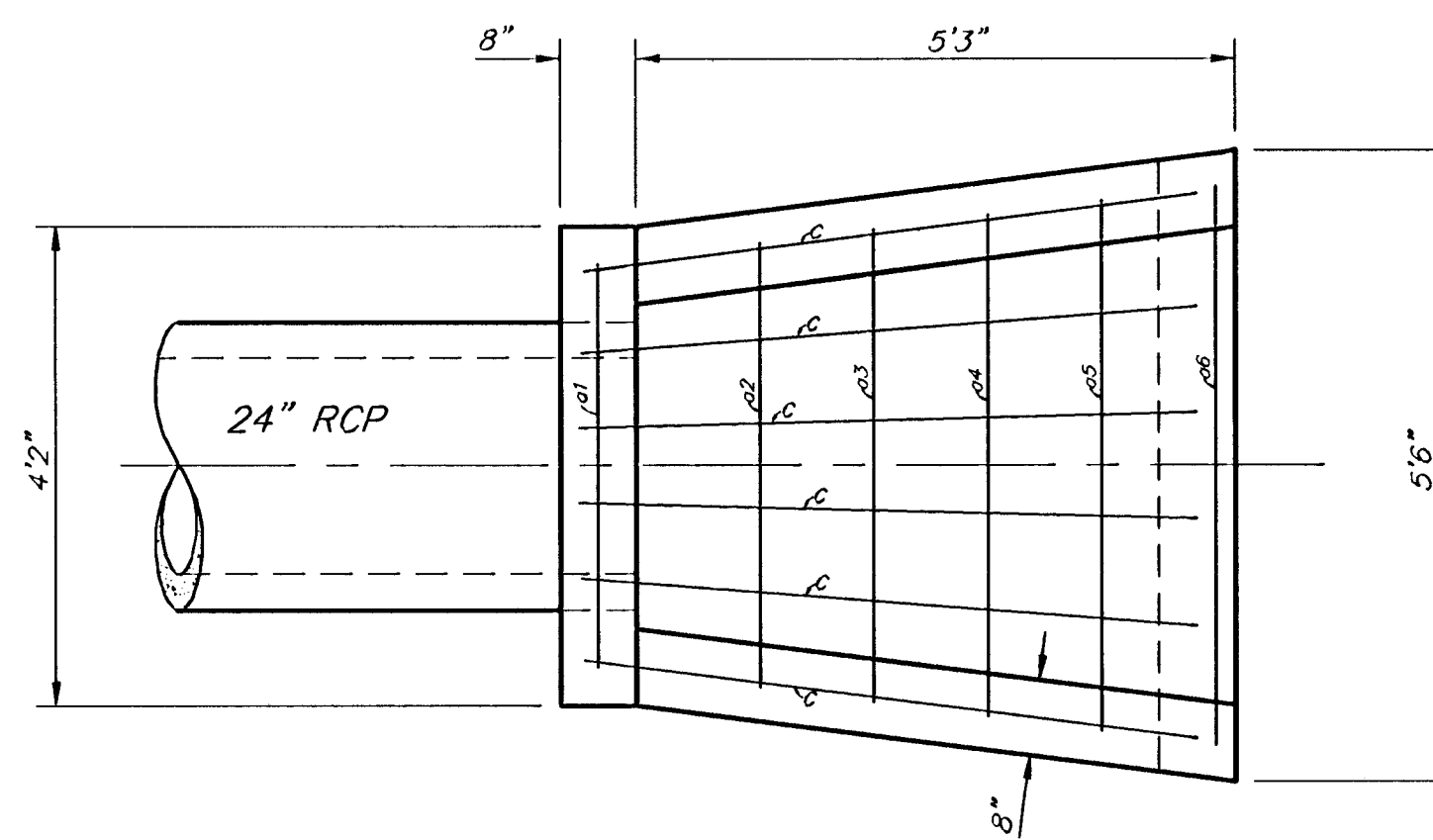


SECTION A-A

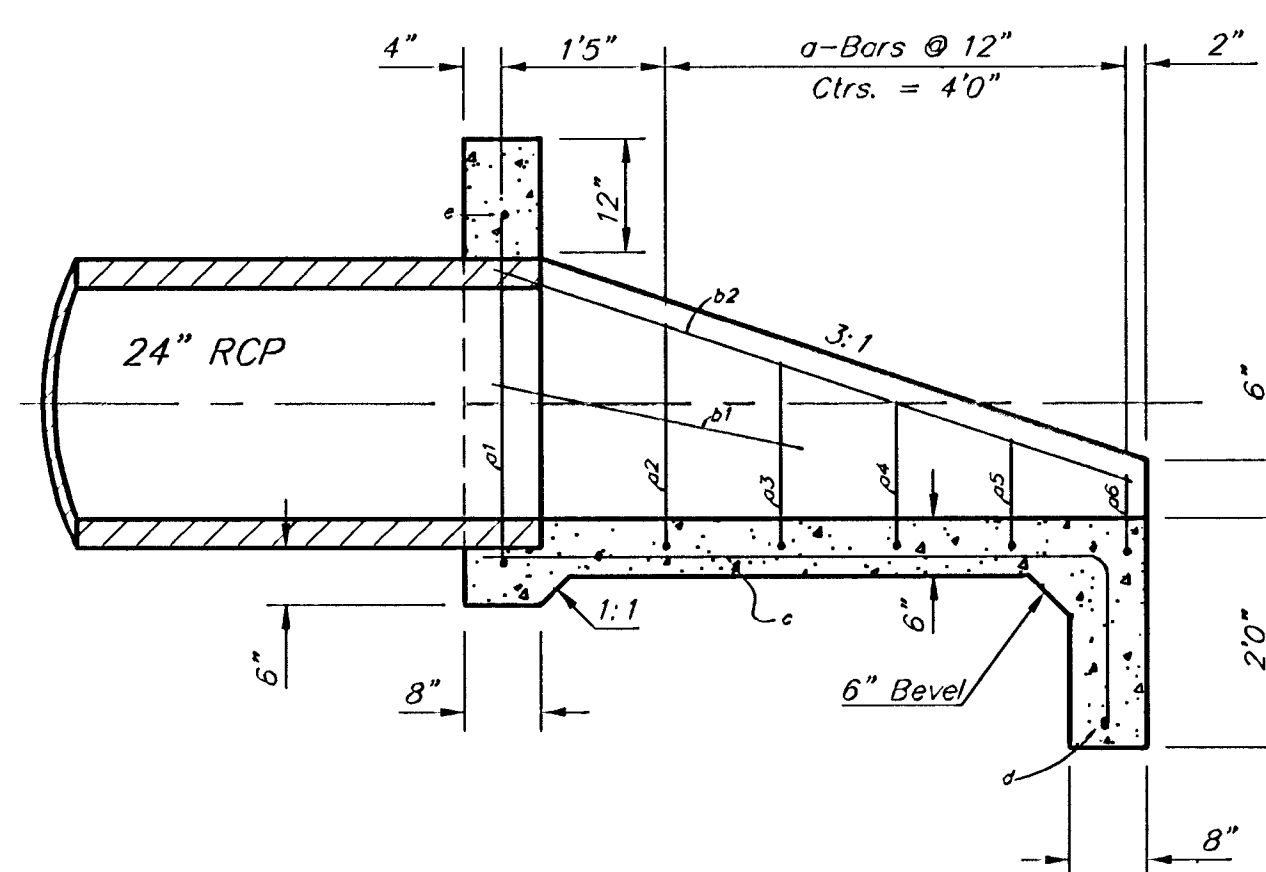
Bar	Shape	No.	Length	Weight
a1		1	14'0"	9.35
a2		1	11'10"	7.90
a3		1	11'3"	7.52
a4		1	10'10"	7.24
a5		1	10'5"	6.96
a6		1	10'0"	6.68
a7		1	9'7"	6.40
a8		1	9'0"	6.01
a9		1	8'7"	5.73
b1		2	8'5"	11.24
b2		2	4'7"	6.12
b3		2	9'0"	12.02
c		6	10'4"	41.42
d1		4	1'6"	4.01
d2		4	10"	2.23
e		3	5'4"	10.69
f		4	3'0"	8.02
g		2	7'0"	9.35
h		6	2'6"	10.02
Total Rebar				178.91 Lbs.
Concrete				3.20 C.Y.

HEADWALL FOR 36" RCP

* Field Bend or Cut Reinforcing as Required for Clearance.



PLAN

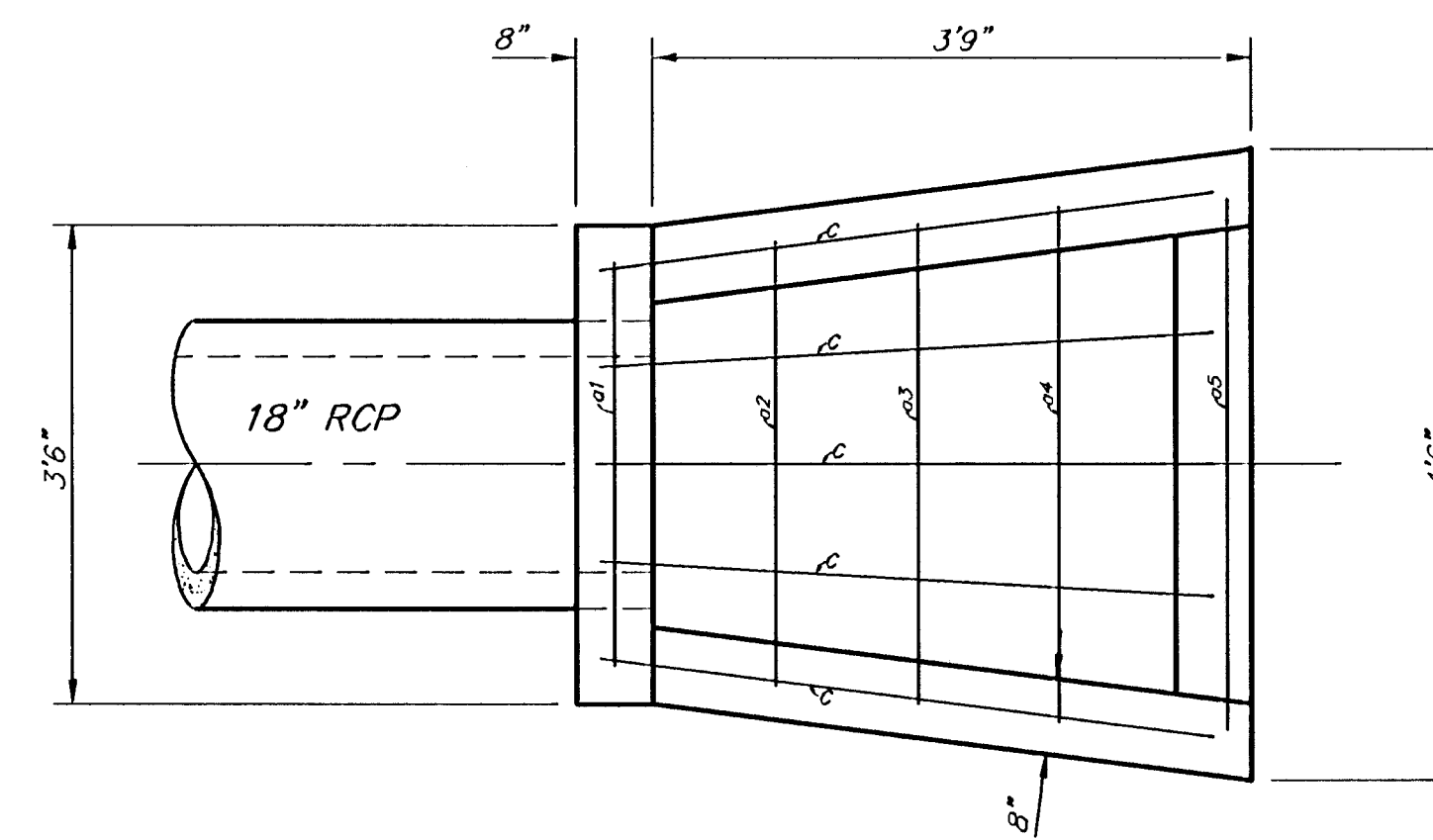


SECTION

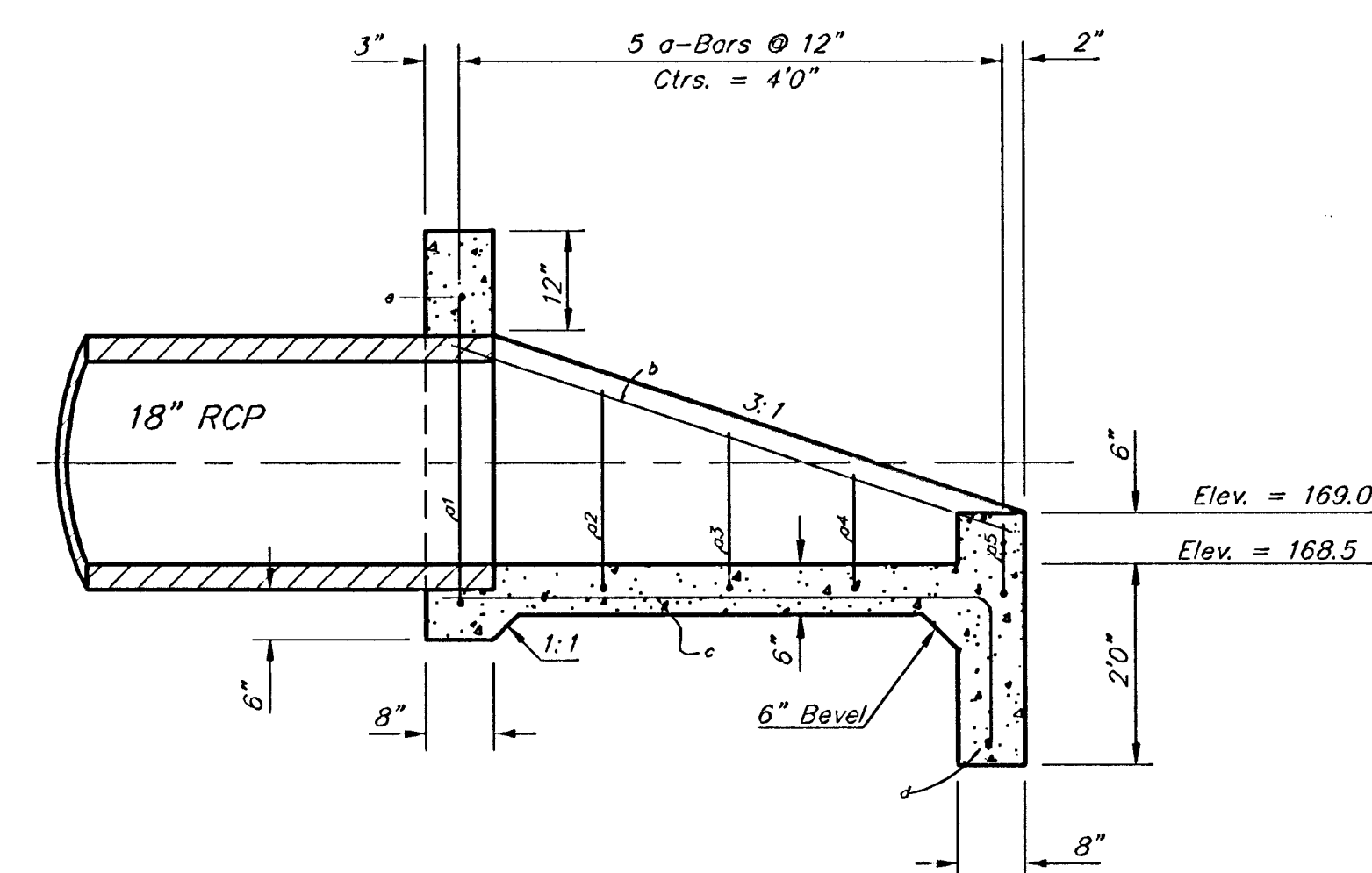
Bar	Shape	No.	Length	Weight
a1		1	9'5"	6.29
a2		1	7'7"	5.07
a3		1	7'2"	4.79
a4		1	6'9"	4.51
a5		1	6'4"	4.23
a6		1	6'1"	4.06
b1		2	2'9"	3.67
b2		2	5'10"	7.79
c		6	6'11"	27.72
d		1	5'0"	3.37
e		1	3'10"	2.56
Total Rebar				74.03 Lbs.
Concrete				1.40 C.Y.

* Field Bend or Cut Reinforcing as Required for Clearance.

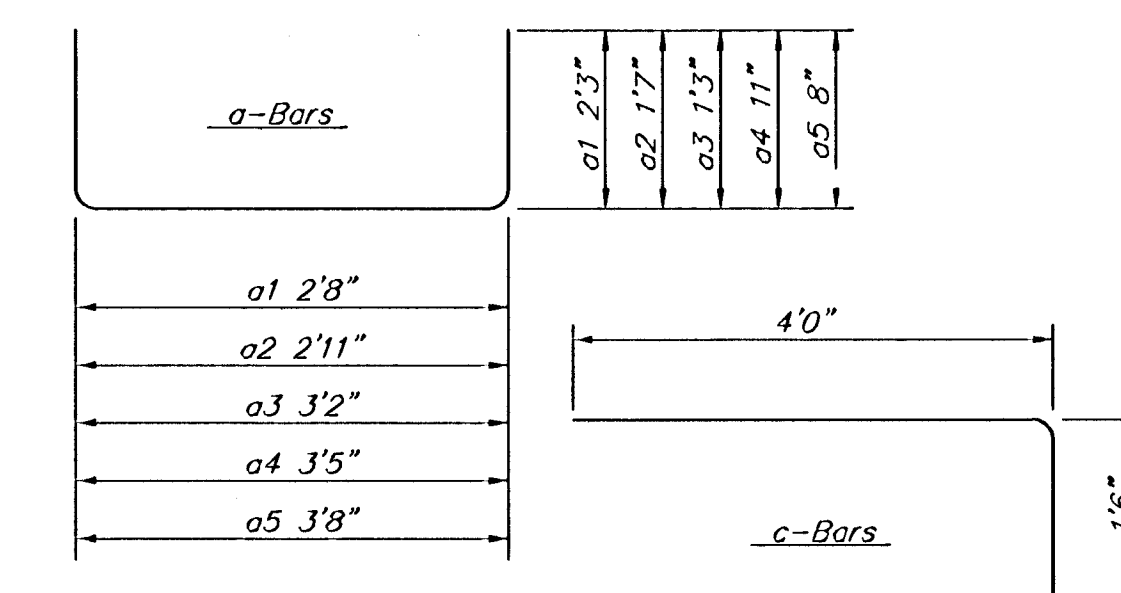
HEADWALL FOR 24" RCP



PLAN



SECTION



SECTION A-A

Bar	Shape	No.	Length	Weight
a1		1	7'2"	4.79
a2		1	6'1"	4.06
a3		1	5'8"	3.79
a4		1	5'3"	3.51
a5		1	5'0"	3.34
b		2	4'0"	5.34
c		5	5'6"	18.37
d		1	4'0"	2.67
e		1	3'2"	2.12
Total Rebar				47.99 Lbs.
Concrete				0.91 C.Y.

* Field Bend or Cut Reinforcing as Required for Clearance.

SPECIAL HEADWALL FOR 18" RCP

- GENERAL NOTES**
1. All pipes shall be flush cut prior to being cast into concrete headwall.
 2. Concrete used in headwall construction shall be same as per city standard paving mix except that it shall have a minimum 28 day compressive strength of 4000 psi.
 3. All exposed edges shall be beveled 1/2".
 4. Reinforcing steel shall comply to A.S.T.M. designation 6015 grade 60. All dimensions relative to reinforcing steel are to centerline of bar unless otherwise noted.
 5. The "Rein. Conc. Headwall" shall be paid for at the unit price bid per each in place which shall include all labor, materials, excavation, concrete, reinforcing steel and all other incidental items necessary to complete the work. Material quantities shown are for information only.
 6. A deduction in concrete quantities has been made for pipe openings through the headwall.
 7. All concrete reinforcement to be #4 Rebar.
 8. All rebar to have min. of 1 1/2" conc. cover.

Baughman PROJECT NUMBER 468-83908 REVISIONS:		Copper Gate North Addition - Phase I HEADWALL DETAIL STORM WATER DRAIN #241 Baughman Company, P.A. 315 Ella St. Wichita, KS 67211 F 316-262-7271 F 316-262-0149 ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE DESIGN Staff DRAWN Staff APPROVED DATE 9/14/05 SCALE Noted SHEET	
		11 OF 17 Copper Gate North\Phase I\HdwDetail	