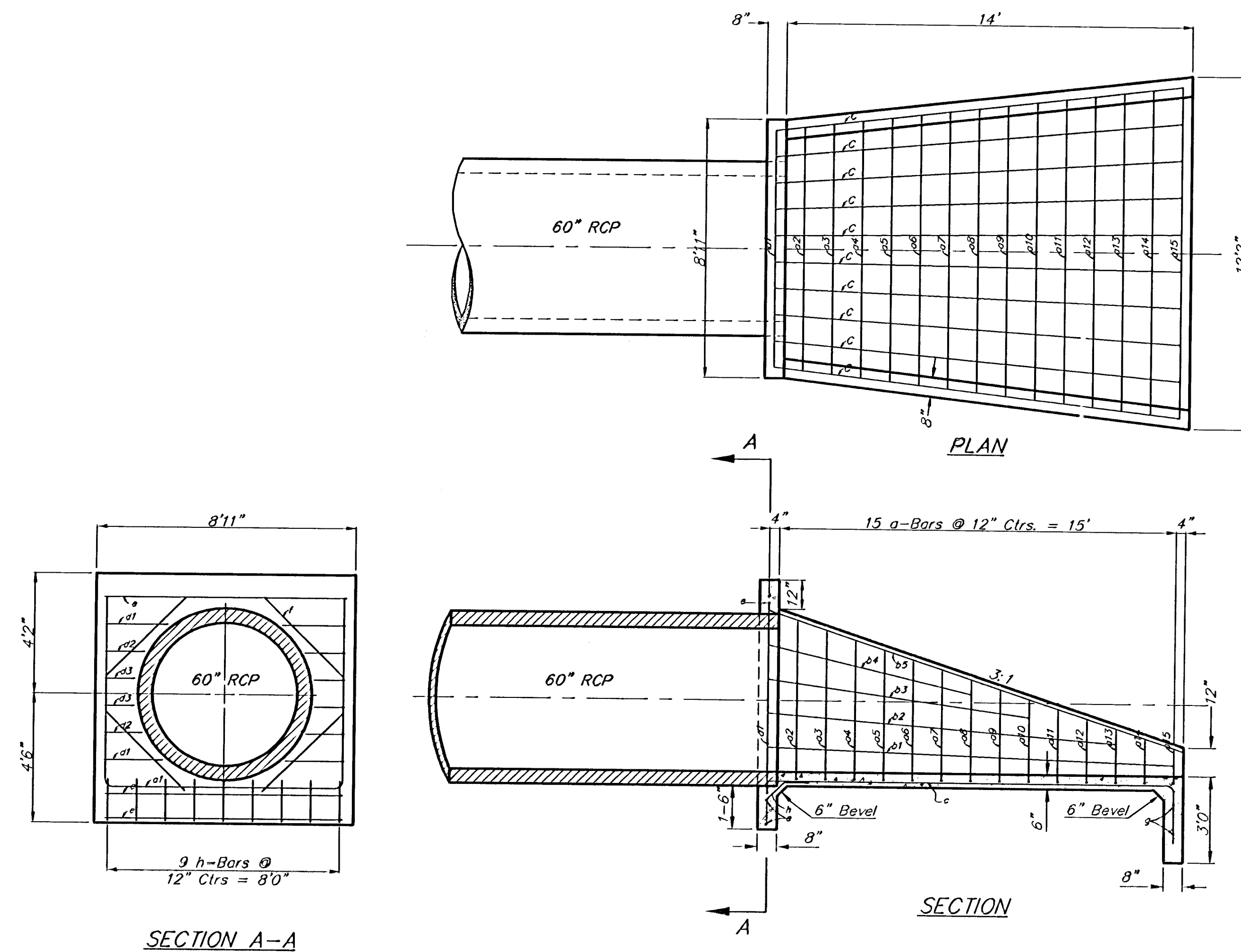




a-Bars	a1 6'8"	a2 5'6"	a3 5'2"	a4 4'10"	a5 4'6"	a6 4'2"	a7 3'10"	a8 3'6"	a9 3'2"	a10 2'10"	a11 2'6"	a12 2'2"	a13 1'10"	a14 1'6"	a15 1'2"
a1 8'2"															
a2 8'5"															
a3 8'7"															
a4 8'10"															
a5 9'1"															
a6 9'4"															
a7 9'7"															
a8 9'10"															
a9 10'1"															
a10 10'3"															
a11 10'6"															
a12 10'9"															
a13 11'0"															
a14 11'2"															
a15 11'5"															

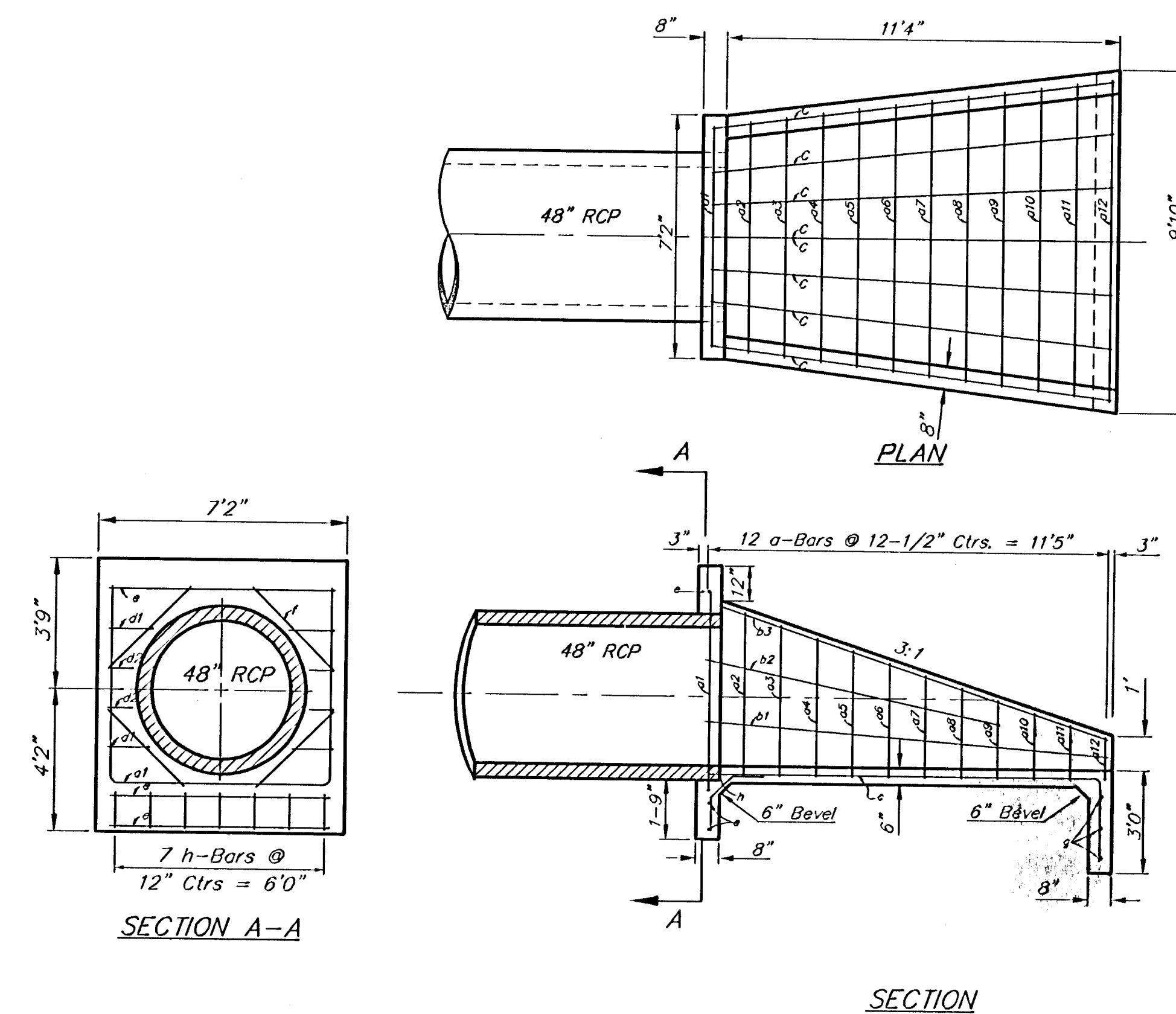
REBAR SCHEDULE

Bar	Shape	No.	Length	Weight	Bar	Shape	No.	Length	Weight
a1		1	21'6"	14.36	b1		2	14'0"	18.70
a2		1	19'5"	12.97	b2		2	12'0"	16.04
a3		1	18'11"	12.64	b3		2	9'1"	12.14
a4		1	18'6"	12.36	b4		2	7'2"	9.58
a5		1	18'1"	12.08	b5		2	15'1"	20.15
a6		1	17'8"	11.81	c		10	16'0"	106.88
a7		1	17'3"	11.52	d1		4	2'1"	5.57
a8		1	16'10"	11.24	d2		4	1'4"	3.56
a9		1	16'5"	10.97	d3		4	1'0"	2.67
a10		1	15'11"	10.63	e		3	8'5"	16.87
a11		1	15'6"	10.35	f		4	3'11"	10.47
a12		1	15'1"	10.08	g		2	11'0"	7.35
a13		1	14'9"	9.80	h		9	2'6"	15.03
a14		1	14'2"	9.46					
a15		1	13'9"	9.19					
				Total Rebar					414.47 Lbs.
				Concrete					14.46 C.Y.

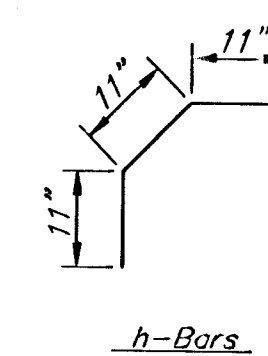
A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall.
 * Field Bend or Cut Reinforcing as Required for Clearance.
 All Concrete Reinforcement to be #4 Rebar.
 All Rebar to Have Min. of 1 1/2" Conc. Cover.

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 A615 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.

HEADWALL FOR 60" RCP



a-Bars	a1 5'9"	a2 4'8"	a3 4'4"	a4 4'0"	a5 3'8"	a6 3'4"	a7 3'0"	a8 2'7"	a9 2'3"	a10 1'11"	a11 1'7"	a12 1'3"
a1 6'4"												
a2 6'8"												
a3 6'11"												
a4 7'2"												
a5 7'5"												
a6 7'8"												
a7 7'11"												
a8 8'3"												
a9 8'6"												
a10 8'9"												
a11 9'0"												
a12 9'3"												



c-Bars	c1 11'7"	c2 2'5"
c1 11'7"		
c2 2'5"		

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall.
 * Field Bend or Cut Reinforcing as Required for Clearance.
 All Concrete Reinforcement to be #4 Rebar.
 All Rebar to Have Min. of 1 1/2" Conc. Cover.

HEADWALL FOR 48" RCP

Bar	Shape	No.	Length	Weight
a1		1	17'10"	11.91
a2		1	16'0"	10.69
a3		1	15'7"	10.41
a4		1	15'2"	10.13
a5		1	14'9"	9.82
a6		1	14'4"	9.57
a7		1	13'11"	9.30
a8		1	13'5"	8.96
a9		1	13'0"	8.68
a10		1	12'7"	8.41
a11		1	12'2"	8.13
a12		1	11'9"	7.85
b1		2	11'8"	15.59
b2		2	8'8"	11.58
b3		2	11'10"	15.81
c		7	14'0"	65.46
d1		4	1'2"	3.12
d2		4	8"	1.78
e		3	6'8"	13.03
f		4	3'4"	8.91
g		3	9'3"	18.54
h		7	2'9"	12.86
			Total Rebar	280.54 Lbs.
			Concrete	4.91 C.Y.

Baughman Clifton Cove Addition
HEADWALL DETAIL
 STORM WATER DRAIN #269

Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 468-84024 DESIGN Staff DRAWN Staff
 APPROVED DATE 5/30/06

REVISIONS: SCALE Noted SHEET 15 OF 25

Clifton Cove Addition