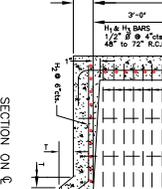
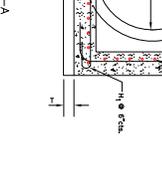
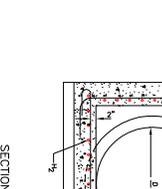


**DIMENSIONS & QUANTITIES FOR REINFORCING STEEL**

DIMENSIONS	REINFORCING STEEL												CLASS 'A' CONCRETE		REINFORCING STEEL		BAR HANDRAIL		
	Ch-Bars	H-Bars	1/2-Bars	1/3-Bars	1/4-Bars	1/5-Bars	1/6-Bars	1/8-Bars	1/10-Bars	1/12-Bars	1/16-Bars	1/20-Bars	Total to Reinforcing Bars	Per Foot Additional Height	Total to Reinforcing Bars	Per Foot Additional Height			
15"	1/2"	2 1/4"	2	5-4"	10	5-1"	6	2-7"	8	4-2"	1	10"	5	3-3"	77	289	79	28.7	10
18"	1 7/8"	2 1/2"	2	5-4"	11	5-4"	7	2-7"	8	4-2"	1	10"	7	3-3"	83	318	100	31.4	11
24"	3 1/4"	3"	2	6-4"	13	5-10"	8	3-4"	10	4-1 1/2"	2	10"	8	3-10"	129	432	131	35.4	13
30"	4 1/2"	4"	2	7-4"	15	6-4"	9	3-10"	12	5-5"	2	10"	8	4-1 1/2"	171	482	163	38.1	15
42"	6 1/2"	5 1/2"	2	7-4"	17	6-10"	10	4-4"	14	5-11"	2	10"	8	4-1 1/2"	219	489	199	42.6	17
48"	7 1/2"	6"	2	8-4"	19	7-4"	11	4-1 1/2"	16	6-5"	3	10"	11	5-6"	274	546	231	46.1	19
48"	12 1/2"	5"	2	8-4"	23	8-4"	13	5-5"	22	6-11"	3	10"	11	5-6"	389	633	334	50.1	22
54"	18 1/2"	5 1/2"	2	9-4"	25	8-10"	14	5-11"	24	7-5"	4	10"	11	6-7"	441	680	384	53.4	24
60"	18 1/2"	6"	2	9-4"	27	9-10"	15	6-5"	26	7-11"	4	10"	14	6-7"	518	747	422	58.1	26
66"	23 7/8"	6 1/2"	2	10-2"	29	9-10"	16	7-0"	28	8-5"	4	10"	14	7-7"	602	804	510	60.8	28
72"	28 1/2"	7"	2	10-8"	31	10-4"	17	7-6"	30	8-11"	5	10"	14	8-2"	682	861	572	64.1	30

**DETAILS OF PIPE HANDRAIL**



**GENERAL NOTES**

- All construction shall be in accordance with City of Chickasha Standard Specifications.
- All exposed concrete surfaces shall have a conchoidal finish.
- All reinforcing steel shall be 3/4" diameter.
- All reinforcing steel shall be 1/2"  $\phi$ . All horizontal bars shall be spaced at 6" c/s except as shown for 48" to 72" R.C.P. Vertical bars are to be spaced as shown.
- Maximum depths of drop inlet for 48" to 72" R.C.P. shall be as follows: 48"-18"; 54"-16"; 60"-14"; 66"-12"; 72"-10".
- Shop handrail shall be placed on all Drop Inlets.
- Std. Steel Pipe painted two coats of Aluminum paint may be used in place of galv. steel pipe.
- Welded connections shall be thoroughly cleaned off for pipe handrail.
- Welded connections shall be thoroughly cleaned off for pipe handrail.
- Shop details for all pipe handrail shall be submitted for approval.
- Reinforced concrete pipe shall conform to requirements of A.A.S.H.O. M-170 (ASTM C-76) Class III unless otherwise designated.
- Wall thickness (Dimension "T") of pipes shown, are taken from "Wall B" Column of A.A.S.H.O. tables.

Total quantities as shown in table are computed to top of pipe and include curb. For drop inlets of greater depth, multiply the figure in the per foot column by the height from top of pipe to top of drop inlet and add the result to the quantity in the preceding column.

APPROVED BY:	DATE:	DRAWN:	DATE:	ENGINEER:
				D-104

CITY OF CHICKASHA  
COMMUNITY PLANNING & DEVELOPMENT  
STANDARD REINF. CONC. DROP INLETS  
FOR  
15" TO 72" REINF. CONC. PIPES