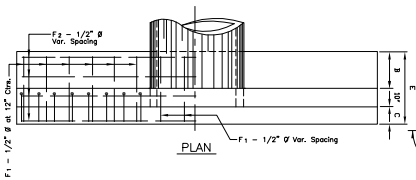
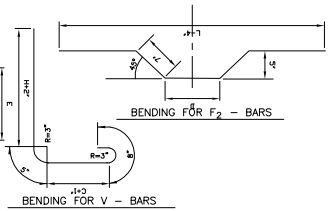
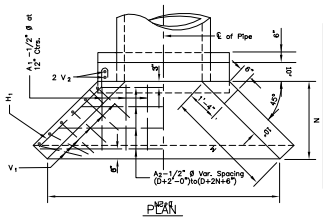


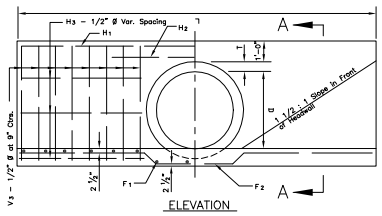


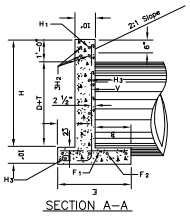


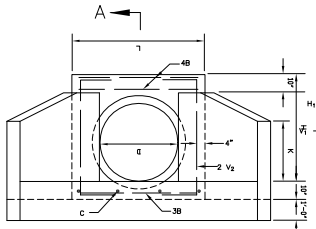
DIMENSIONS & QUANTITIES FOR HEADWALLS WITH 45° WINGS

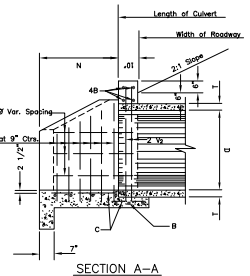
DIMENSIONS								REINFORCING STEEL														QUANTITIES *	
D	AREA SQ.FT.	T	H	K	L	M	N	A1 – 1/2" Ø		A – 1/2" Ø		B – 1/2" Ø		C – 1/2" Ø		H1 – 1/2" Ø		V1 – 1/2" Ø		V – 1/2" Ø		CLASS "A" CONC. C.Y.	REINF. STEEL LBS.
								NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		
15"	1.23	2 1/4"	2'-5 1/4"	1'-5"	3'-7"	1'-9"	1'-3"	4	1'-0"	2	3'-9" Av.	7	3'-3"	3	1'-6"	4	2'-1"	4	3'- 5" Av.	4	5'-10"	.74	57
18"	1.77	2 1/2"	2'-8 1/2"	1'-7"	3'-10"	2'-1 1/2"	1'-6"	4	1'-2"	2	4'-3" Av.	7	3'-6"	3	1'-6"	4	2'-6"	4	3'- 8" Av.	4	6'-1"	.91	61
24"	3.14	3"	3'-3"	1'-10½"	4'-4"	2'-10"	2'-0"	5	1'-8"	3	5'-3" Av.	7	4'-0"	3	1'-6"	6	3'-2"	6	4'- 1" Av.	4	6'-8"	1.37	85
30"	4.91	3 1/2"	3'-9 1/2"	2'-2"	4'-10"	3'-6 1/2"	2'-6"	5	2'-2"	3	6'-3" Av.	7	4'-6"	4	1'-6"	6	3'-11"	8	4'- 6" Av.	4	7'-2"	1.77	104
36"	7.07	4"	4'-4"	2'-5 1/2"	5'-4"	4'-3"	3'-0"	6	2'-8"	4	7'-3" Av.	7	5'-0"	4	1'-6"	6	4'-7"	10	4'-11" Av.	4	7'-9"	2.29	130
42"	9.62	4 1/2"	4'-10½"	2'-9"	5'-10"	4'-11½"	3'-6"	6	3'-2"	4	8'-3" Av.	7	5'-6"	4	1'-6"	6	5'-4"	12	5'- 4" Av.	4	8'-3"	2.89	151

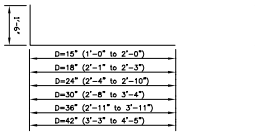
* FOR ONE HEADWALL

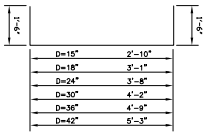


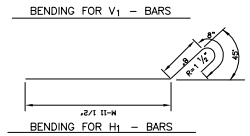








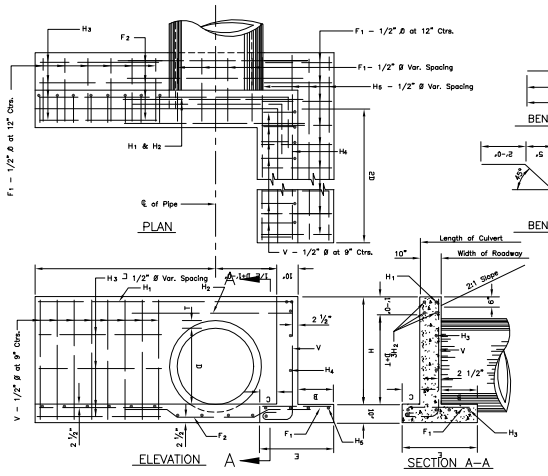


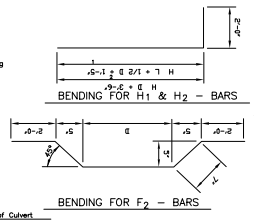


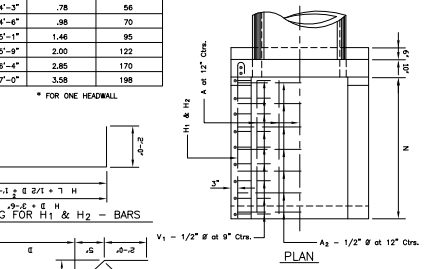
DIMENSIONS & QUANTITIES FOR STRAIGHT HEADWALLS

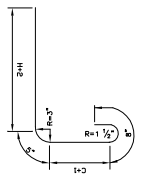
DIMENSIONS								REINFORCING STEEL												QUANTITIES *	
D	AREA SQ.FT.	T	H	L	E	B	C	F1 – 1/2" Ø		F2 – 1/2" Ø		H1 – 1/2" Ø		H2 – 1/2" Ø		H3 – 1/2" Ø		V – 1/2" Ø		CLASS "A" CONC. C.Y.	REINF. STEEL LBS.
								NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		
15"	1.23	2 1/2"	2'-5 1/2"	6'-0"	2'-2"	10"	6"	6	1'-10"	3	6'-0"	1	5'-8"	3	5'-3"	4	2'-0"	6	4'-3"	.78	56
18"	1.77	2 1/2"	2'-8 1/2"	7'-0"	2'-3"	11"	6"	8	1'-11"	3	7'-0"	1	6'-8"	3	5'-6"	4	2'-4"	8	4'-6"	.98	70
24"	3.14	3"	3'-3"	9'-0"	2'-7"	1'-3"	6"	11	2'-3"	3	9'-0"	1	8'-8"	3	6'-0"	4	3'-1"	10	5'-1"	1.46	95
30"	4.91	3 1/2"	3'-9 1/2"	11'-0"	2'-10"	1'-4"	8"	11	2'-6"	3	11'-0"	1	10'-8"	3	6'-6"	6	3'-9"	12	5'-9"	2.00	122
36"	7.07	4"	4'-4"	14'-0"	3'-1"	1'-7"	8"	16	2'-9"	4	14'-0"	1	13'-8"	3	7'-0"	6	5'-0"	14	6'-4"	2.85	170
42"	9.62	4 1/2"	4'-10½"	16'-0"	3'-4"	1'-8"	10"	16	3'-0"	4	16'-0"	1	15'-8"	3	7'-6"	6	5'-8"	16	7'-0"	3.58	198

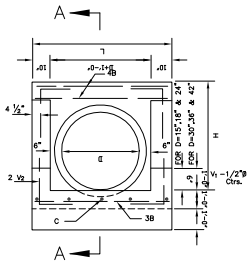
* FOR ONE HEADWALL

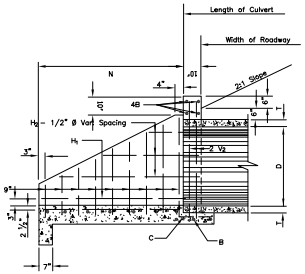








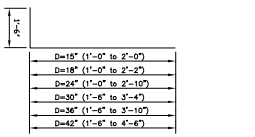


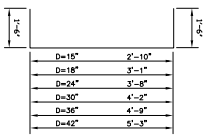


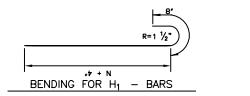
DIMENSIONS & QUANTITIES FOR HEADWALLS WITH U–TYPE WINGS

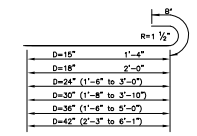
DIMENSIONS						REINFORCING STEEL														QUANTITIES *	
D	AREA SQ.FT.	T	H	L	N	A1 – 1/2" Ø		A2 – 1/2" Ø		B – 1/2" Ø		C – 1/2" Ø		H1 – 1/2" Ø		H2 – 1/2" Ø		V1 – 1/2" Ø		V2 – 1/2" Ø		CLASS "A" CONC. C.Y.	REINF. STEEL LBS.
						NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		
15"	1.23	2 1/4"	2'-5 1/4"	3'-11"	2'-6"	3	2'-2"	3	3'-7"	7	3'-7"	3	1'-6"	2	3'-6"	2	2'-0"	8	3'-0" Av.	4	5'-10"	.95	71
18"	1.77	2 1/2"	2'-8 1/2"	4'-2"	3'-1"	3	2'-9"	4	3'-10"	7	3'-10"	3	1'-6"	2	4'-1"	2	2'-8"	8	3'-1" Av.	4	6'-1"	1.15	79
24"	3.14	3"	3'-3"	4'-8"	4'-2"	4	3'-10"	5	4'-4"	7	4'-4"	4	1'-6"	2	5'-2"	4	2'-11" Av.	12	3'-5" Av.	4	6'-8"	1.60	109
30"	4.91	3 1/2"	3'-9 1/2"	5'-2"	4'-3"	4	3'-11"	5	4'-10"	7	4'-10"	4	1'-6"	2	5'-3"	4	3'-5" Av.	12	3'-11" Av.	4	7'-2"	1.91	120
36"	7.07	4"	4'-4"	5'-8"	5'-4"	5	5'-0"	6	5'-4"	7	5'-4"	5	1'-6"	2	6'-4"	6	3'-11" Av.	14	4'-2" Av.	4	7'-9"	2.48	152
42"	9.62	4 1/2"	4'-10½"	6'-2"	6'-5"	5	6'-1"	7	5'-10"	7	5'-10"	5	1'-6"	2	7'-5"	6	4'-10" Av.	18	4'-6" Av.	4	8'-3"	3.12	186

* FOR ONE HEADWALL









DIMENSIONS & QUANTITIES FOR HEADWALLS WITH 90° WINGS

DIMENSIONS								REINFORCING STEEL																QUANTITIES *	
D	AREA SQ.FT.	T	H	L	E	B	C	F1 – 1/2" Ø		F2 – 1/2" Ø		H1 – 1/2" Ø		H2 – 1/2" Ø		H3 – 1/2" Ø		H4 – 1/2" Ø		H5 – 1/2" Ø		V – 1/2" Ø		CLASS "A" CONC. C.Y.	REINF. STEEL LBS.
								NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		
15"	1.23	2 1/4"	2'-5 1/4"	3'-0"	2'-2"	10"	6"	10	1'-10"	3	6'-5"	1	7'-0"	3	6'-9"	5	2'-0"	2	3'-0"	4	3'-10"	7	4'-3"	1.09	84
18"	1.77	2 1/2"	2'-8 1/2"	3'-6"	2'-3"	11"	6"	10	1'-11"	3	6'-8"	1	7'-8"	3	7'-0"	5	2'-4"	2	3'-6"	4	4'-5"	9	4'-6"	1.32	97
24"	3.14	3"	3'-3"	4'-6"	2'-7"	1'-3"	6"	14	2'-3"	3	7'-2"	1	8'-11"	3	7'-6"	6	3'-1"	3	4'-6"	4	5'-9"	11	5'-1"	1.94	131
30"	4.91	3 1/2"	3'-9 1/2"	5'-6"	2'-10"	1'-4"	8"	16	2'-6"	3	7'-8"	1	10'-2"	3	8'-0"	6	3'-9"	3	5'-6"	4	6'-10"	14	5'-9"	2.59	163
36"	7.07	4"	4'-4"	7'-0"	3'-1"	1'-7"	8"	19	2'-9"	4	8'-2"	1	11'-11"	3	8'-6"	7	5'-0"	4	6'-6"	4	8'-1"	17	6'-4"	3.47	216
42"	9.62	4 1/2"	4'-10½"	8'-0"	3'-4"	1'-8"	10"	21	3'-0"	4	8'-8"	1	13'-2"	3	9'-0"	7	5'-8"	4	7'-6"	4	9'-2"	19	7'-0"	4.32	252

* FOR ONE HEADWALL

GENERAL NOTES

1. All Construction shall be in accordance with City of Chickasha Standard Specifications.
2. All Exposed Concrete Surfaces shall have a Carborundum Finish.
3. All Exposed Concrete Edges shall have a 3/4" Chamfer.
4. All Reinforced Steel shall conform to ASTM Spec. A–305–49.

CITY OF CHICKASHA
COMMUNITY PLANNING & DEVELOPMENT

CAST–IN–PLACE CONCRETE HEADWALLS FOR 15" TO 42" REINF. CONC. PIPES

APPROVED BY: _____ DATE _____	DRAWN:		DWG.NO. D-406