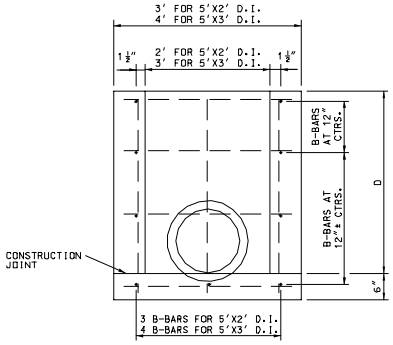
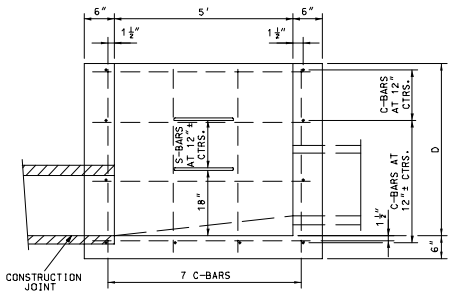
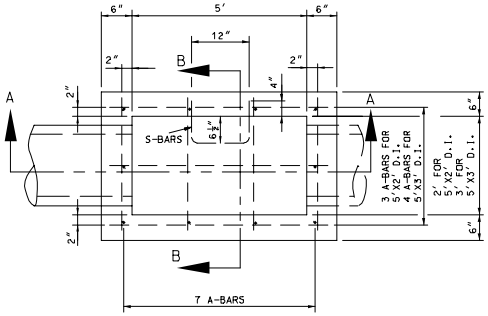


SECTION B-B



SECTION A-A



PLAN
(WITHOUT COVER OR SPILLWAY)

BASIC DROP INLET

BAR BILLS															
5' x 2' DROP INLET										5' x 3' DROP INLET									
DEPTH "D"	#4 A-BARS VERTICAL WALLS		#4 B-BARS LG. FLOOR & SIDE WALLS		#4 C-BARS LATERAL FLOOR & END WALLS		#6 S-BARS STEPS		DEPTH "D"	#4 A-BARS VERTICAL WALLS		#4 B-BARS LG. FLOOR & SIDE WALLS		#4 C-BARS LATERAL FLOOR & END WALLS		#6 S-BARS STEPS	
	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
2'-0"	16	2'-3"	7	5'-9"	11	2'-9"			2'-0"	18	2'-3"	8	5'-9"	11	3'-9"		
2'-3"	16	2'-6"	7	5'-9"	11	2'-9"			2'-3"	18	2'-6"	8	5'-9"	11	3'-9"		
2'-6"	16	2'-9"	9	5'-9"	13	2'-9"			2'-6"	18	2'-9"	10	5'-9"	13	3'-9"		
3'-0"	16	3'-3"	9	5'-9"	13	2'-9"			3'-0"	18	3'-3"	10	5'-9"	13	3'-9"		
3'-6"	16	3'-9"	11	5'-9"	15	2'-9"			3'-6"	18	3'-9"	12	5'-9"	15	3'-9"		
4'-0"	16	4'-3"	11	5'-9"	15	2'-9"	2	2'-9"	4'-0"	18	4'-3"	12	5'-9"	15	3'-9"	2	2'-9"
4'-6"	16	4'-9"	13	5'-9"	17	2'-9"	2	2'-9"	4'-6"	18	4'-9"	14	5'-9"	17	3'-9"	2	2'-9"
5'-0"	16	5'-3"	13	5'-9"	17	2'-9"	3	2'-9"	5'-0"	18	5'-3"	14	5'-9"	17	3'-9"	3	2'-9"
5'-6"	16	5'-9"	15	5'-9"	19	2'-9"	3	2'-9"	5'-6"	18	5'-9"	16	5'-9"	19	3'-9"	3	2'-9"
6'-0"	16	6'-3"	15	5'-9"	19	2'-9"	4	2'-9"	6'-0"	18	6'-3"	16	5'-9"	19	3'-9"	4	2'-9"
6'-6"	16	6'-9"	17	5'-9"	21	2'-9"	4	2'-9"	6'-6"	18	6'-9"	18	5'-9"	21	3'-9"	4	2'-9"
7'-0"	16	7'-3"	17	5'-9"	21	2'-9"	5	2'-9"	7'-0"	18	7'-3"	18	5'-9"	21	3'-9"	5	2'-9"
7'-6"	16	7'-9"	19	5'-9"	23	2'-9"	5	2'-9"	7'-6"	18	7'-9"	20	5'-9"	23	3'-9"	5	2'-9"
8'-0"	16	8'-3"	19	5'-9"	23	2'-9"	6	2'-9"	8'-0"	18	8'-3"	20	5'-9"	23	3'-9"	6	2'-9"
8'-6"	16	8'-9"	21	5'-9"	25	2'-9"	6	2'-9"	8'-6"	18	8'-9"	22	5'-9"	25	3'-9"	6	2'-9"
9'-0"	16	9'-3"	21	5'-9"	25	2'-9"	7	2'-9"	9'-0"	18	9'-3"	22	5'-9"	25	3'-9"	7	2'-9"
9'-6"	16	9'-9"	23	5'-9"	27	2'-9"	7	2'-9"	9'-6"	18	9'-9"	24	5'-9"	27	3'-9"	7	2'-9"
10'-0"	16	10'-3"	23	5'-9"	27	2'-9"	8	2'-9"	10'-0"	18	10'-3"	24	5'-9"	27	3'-9"	8	2'-9"

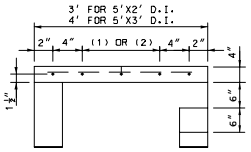
(1) 4-#4 BARS 5'-9" LONG EQUALLY SPACED FOR 5' X 2' DROP INLET.
(2) 5-#4 BARS 5'-9" LONG EQUALLY SPACED FOR 5' X 3' DROP INLET.

FOR EACH SPILLWAY REDUCE LENGTH OF 5 A-BARS 1'-0" EACH AND ELIMINATE ONE B-BAR

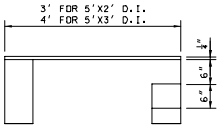
BAR BILL FOR TYPE A COVER

5' x 2' D.I.
6-#4 BARS 5'-9" LONG
6-#3 BARS 2'-9" LONG

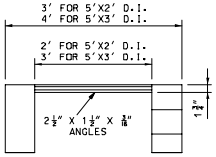
5' x 3' D.I.
7-#4 BARS 5'-9" LONG
6-#3 BARS 3'-9" LONG



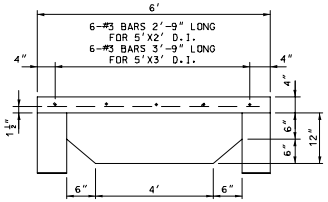
SECTION B-B



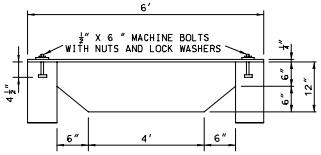
SECTION B-B



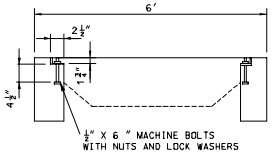
SECTION B-B



SECTION A-A



SECTION A-A



SECTION A-A

QUANTITIES										
5' x 3' DROP INLET										
DEPTH "D"	TYPE A COVER				TYPE B OR TYPE C COVER					
	1 SPILLWAY		2 SPILLWAY		TYPE C ONLY NO SPILLWAY		1 SPILLWAY		2 SPILLWAY	
	CONC. CU.YD.	STEEL LBS.	CONC. CU.YD.	STEEL LBS.	CONC. CU.YD.	STEEL LBS.	CONC. CU.YD.	STEEL LBS.	CONC. CU.YD.	STEEL LBS.
2'-0"	1.41	113	1.27	106	1.26	85	1.12	78	0.97	71
2'-3"	1.50	116	1.35	109	1.34	88	1.20	81	1.06	74
2'-6"	1.58	132	1.44	125	1.43	104	1.28	97	1.14	90
3'-0"	1.75	138	1.60	131	1.60	110	1.45	103	1.31	96
3'-6"	1.91	157	1.77	150	1.76	129	1.62	122	1.48	115
4'-0"	2.08	171	1.94	164	1.93	143	1.79	136	1.64	129
4'-6"	2.25	190	2.11	183	2.10	162	1.95	155	1.81	148
5'-0"	2.42	200	2.27	193	2.26	172	2.12	165	1.98	158
5'-6"	2.58	218	2.44	211	2.43	190	2.29	183	2.14	176
6'-0"	2.75	229	2.61	222	2.60	201	2.45	194	2.31	187
6'-6"	2.92	248	2.77	241	2.76	220	2.62	213	2.48	206
7'-0"	3.08	258	2.94	251	2.93	230	2.79	223	2.64	216
7'-6"	3.25	277	3.11	270	3.10	249	2.95	242	2.81	235
8'-0"	3.42	287	3.27	280	3.27	259	3.12	252	2.98	245
8'-6"	3.58	305	3.44	298	3.43	277	3.29	270	3.15	263
9'-0"	3.75	315	3.61	308	3.60	287	3.46	280	3.31	273
9'-6"	3.92	334	3.78	327	3.77	306	3.62	299	3.48	292
10'-0"	4.09	344	3.94	337	3.93	316	3.79	309	3.65	302
5' x 2' DROP INLET										
2'-0"	1.15	93	1.01	86	1.08	71	0.93	64	0.79	57
2'-3"	1.23	96	1.08	89	1.15	74	1.01	67	0.86	60
2'-6"	1.30	110	1.16	103	1.22	88	1.08	81	0.94	74
3'-0"	1.45	115	1.31	108	1.37	93	1.23	86	1.08	79
3'-6"	1.60	132	1.45	125	1.52	110	1.38	103	1.23	96
4'-0"	1.75	145	1.60	138	1.67	123	1.52	116	1.38	109
4'-6"	1.89	162	1.75	155	1.82	140	1.67	133	1.53	126
5'-0"	2.04	171	1.90	164	1.97	149	1.82	142	1.68	135
5'-6"	2.19	188	2.05	181	2.11	166	1.97	159	1.82	152
6'-0"	2.34	198	2.19	191	2.26	176	2.12	169	1.97	162
6'-6"	2.49	215	2.34	208	2.41	193	2.26	186	2.12	179
7'-0"	2.63	224	2.49	217	2.56	202	2.41	195	2.27	188
7'-6"	2.78	241	2.64	234	2.71	219	2.56	212	2.42	205
8'-0"	2.93	250	2.79	243	2.85	228	2.71	221	2.56	214
8'-6"	3.08	267	2.93	260	3.00	245	2.86	238	2.71	231
9'-0"	3.23	276	3.08	269	3.15	254	3.00	247	2.86	240
9'-6"	3.37	293	3.23	286	3.30	271	3.15	264	3.01	257
10'-0"	3.52	302	3.38	295	3.45	280	3.30	273	3.16	266

QUANTITIES INCLUDE 0.15 C.Y. CONCRETE FOR INVERT

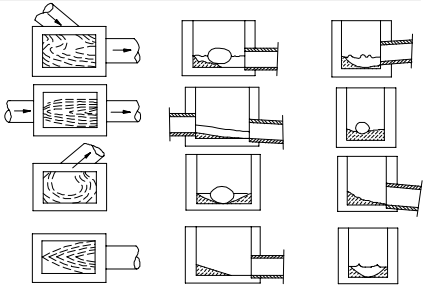
DEDUCTIONS FROM CONCRETE QUANTITIES FOR PIPE OPENINGS

SIZE	CU. YD.
12"	0.03
15"	0.04
18"	0.05
21"	0.07
24"	0.09

TYPE A COVER CONCRETE AND STEEL QUANTITIES INCLUDED IN TABLE

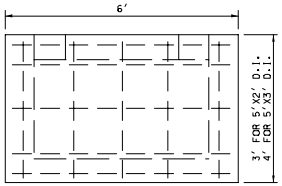
TYPE B COVER FABRICATED STRUCTURAL STEEL
6' x 3' COVER = 185 LBS.
6' x 4' COVER = 245 LBS.

TYPE C COVER, GRATES AND BEARING PLATES
5' x 2' D.I. = 185 LBS.
5' x 3' D.I. = 265 LBS.



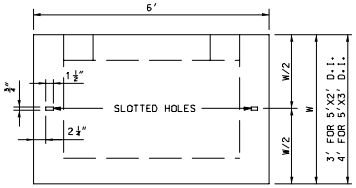
PLAN SIDE VIEW END VIEW

TYPICAL INVERTS



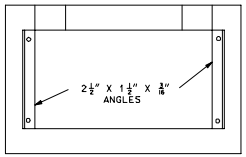
PLAN
(PRECAST CONCRETE SLAB COVER)

TYPE A COVER
AND SPILLWAY DETAILS



PLAN
(1/4 " STEEL PLATE COVER)

TYPE B COVER
AND SPILLWAY DETAILS



GRATE NOT SHOWN

ANY GRATE CAPABLE OF SUPPORTING A UNIFORMLY DISTRIBUTED LOAD OF 300# PER SQ. FOOT CONFORMING TO STD. SPECIFICATIONS CAN BE USED.

PLAN
(GRATE AND BEARING PLATE)

TYPE C COVER

GENERAL NOTES:

THE TYPE OF COVER, "A", "B" OR "C", WILL BE DESIGNATED ON THE DETAIL PLANS. DROP INLET MAY BE BUILT WITH OR WITHOUT SPILLWAYS WITH TYPE "C" COVER.

NO DIRECT PAYMENT WILL BE MADE FOR CUTTING PIPE.

NO DIRECT PAYMENT WILL BE MADE FOR CUTTING OR BENDING REINFORCING BARS AT PIPE OPENINGS.

ALL SHOP RIVETED CONTACT SURFACES OR GRATES SHALL BE GIVEN TWO COATS OF SINGLE COMPONENT, INORGANIC ZINC OR ORGANIC ZINC-RICH PAINT, MEETING THE APPROVAL OF THE ENGINEER.

TYPE "B" COVERS SHALL BE PAINTED WITH TWO COATS OF PAINT APPLIED IN THE SHOP OR FIELD, BY ANY METHOD THAT WILL INSURE A COMPLETE COVERAGE FOR EACH COAT.

THE CONCRETE FOR INVERTS SHALL BE PLACED AFTER COMPLETION OF THE DROP INLET BOX.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

DROP INLET
TYPE EE

DATE:_____ EFFECTIVE: 04-01-1983 604.24B 1/1