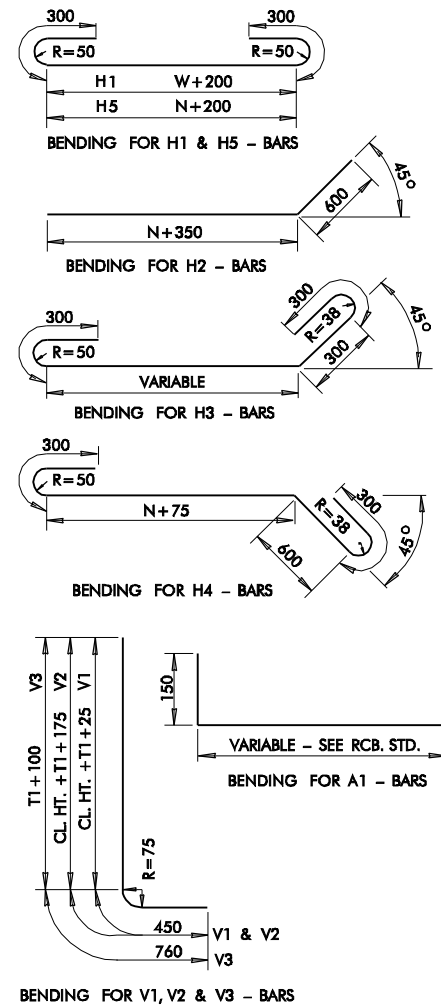
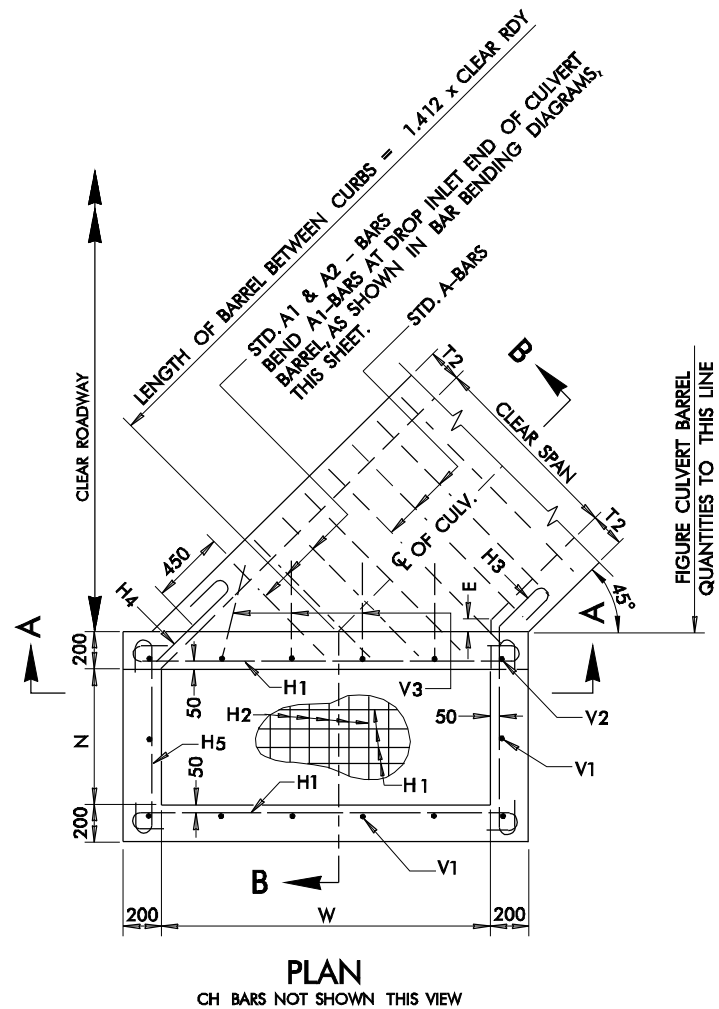
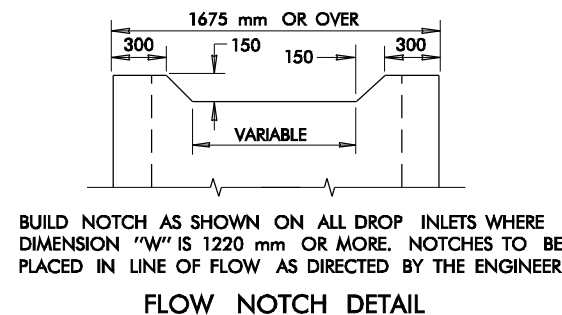
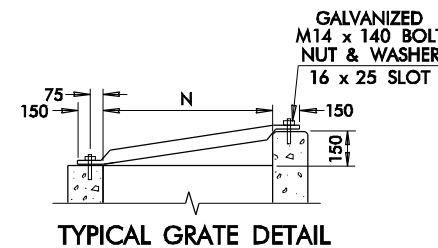
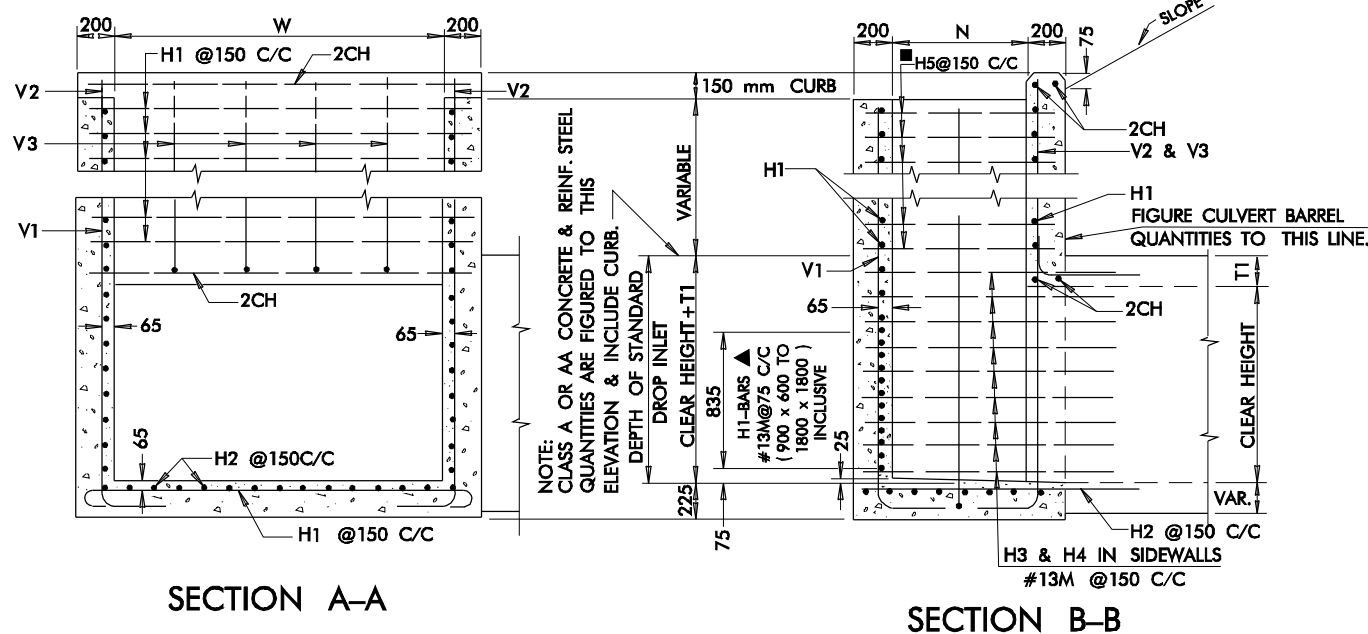




DIMENSIONS & QUANTITIES																													
DESIGN NO.	DIMENSIONS						REINFORCING STEEL (mm)												CLASS A/AA CONC. ▣ CUBIC METERS		REINFORCING STEEL KILOGRAMS		PIPE GRATES						
	CLEAR SPAN, mm	CLEAR HEIGHT mm	AREA OF OPENING m ²	N	W	E	CH-BARS STRAIGHT		H1-BARS BENT		H2-BARS STRAIGHT		H3-BARS BENT		H4-BARS BENT		H5-BARS BENT		V1-BARS BENT		V2-BARS BENT		V3-BARS BENT		STANDARD DROP INLET INCLUDING CURB INCL CURB	PER METER OF ADDITIONAL DEPTH	STANDARD DROP INLET INCLUDING CURB	PER METER OF ADDITIONAL DEPTH	NO. OF PIPE GRATES
							NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.					
1	600	600	0.36	485	1080	13	4	1355	10	1880	7	1475	5	1700	5	1760	2	1285	6	1245	2	1400	2	865	0.87	0.79	66.1	35.1	1
2	900	600	0.54	485	1510	13	4	1785	14	2310	10	1475	5	1700	5	1760		1285	7	1245	2	1400	3	865	1.06	0.96	85.2	49.8	2
3	900	750	0.68	530	1510	13	4	1785	16	2310	10	1550	6	1780	6	1805		1330	7	1400	2	1550	3	865	1.19	0.98	95.8	51.6	2
4	900	900	0.81	685	1510	13	4	1785	19	2310	10	1700	7	1700	7	1960		1485	7	1550	2	1705	3	865	1.43	1.04	109.7	54.5	2
5	1200	600	0.72	485	1945	13	4	2220	14	2745	12	1475	5	1465	5	1760		1285	8	1270	2	1425	4	865	1.25	0.75	97.1	56.4	3
6	1200	750	0.95	530	1945	13	4	2220	16	2745	12	1550	6	1780	6	1805		1330	8	1420	2	1580	4	890	1.41	1.15	110.1	54.9	3
7	1200	900	1.08	685	1945	13	4	2220	19	2745	12	1700	7	1940	7	1960		1485	8	1575	2	1730	4	890	1.67	1.09	127.4	61.5	3
8	1200	1200	1.44	835	2005	55	4	2280	22	2805	13	1855	9	2160	9	2110		1635	8	1880	2	2035	4	890	2.12	1.29	154.9	66.8	3
9	1500	600	0.90	485	2375	13	4	2650	15	3175	15	1475	5	1700	5	1760		1285	9	1595	2	1450	5	915	1.45	1.30	118.9	66.1	4
10	1500	900	1.35	685	2375	13	4	2650	19	3175	15	1700	7	1940	7	1960		1485	9	1600	2	1755	5	915	1.91	1.38	145.1	68.7	4
11	1500	1200	1.80	835	2440	55	4	2715	22	3240	16	1855	9	2160	9	2110		1635	9	1905	2	2060	5	915	2.41	1.47	174.7	74.2	4
12	1500	1500	2.25	1065	2515	135	4	2790	26	3315	16	2085	11	2465	11	2340		2095	11	2210	2	2365	5	915	3.06	1.60	215.6	87.2	4
13	1500	1800	2.70	1295	2515	135	4	3080	29	3315	16	2310	13	2695	13	2570		2095	11	2515	2	2670	5	915	3.73	1.68	249.7	91.1	4
14	1800	600	1.08	485	2805	13	4	3080	15	3605	18	1475	6	1700	6	1760		1285	10	1320	2	1625	6	945	1.64	1.48	135.2	70.6	5
15	1800	900	1.62	685	2870	55	4	3145	19	3670	19	1700	8	2005	8	1960		1485	10	1625	2	1780	6	945	2.19	1.58	17035	76.6	5
16	1800	1200	2.16	835	2870	55	4	3145	22	3670	19	1855	10	2160	10	2110		1635	10	1930	2	2085	6	945	2.69	1.64	19838	81.7	5
17	1800	1500	2.70	1065	2945	135	4	3220	26	3745	19	2085	12	2465	12	2340		1865	12	2235	2	2390	6	945	3.39	1.76	242.9	92.8	5
18	1800	1800	3.24	1295	2945	135	4	3220	29	3745	19	2310	14	2695	14	2570		2095	12	2540	2	2695	6	945	4.10	1.86	278.6	99.3	5

- ### GENERAL NOTES
1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH 1999 METRIC STANDARD SPECIFICATIONS.
 2. ALL EXPOSED CONCRETE EDGES SHALL HAVE 20 mm CHAMFER.
 3. ALL REINFORCING STEEL BARS SHALL BE #13M, EXCEPT CH-BARS, WHICH ARE ARE TO BE #16M BARS.
 4. ALL HORIZONTAL BARS SHALL BE SPACED AT 150 mm CENTERS EXCEPT AS OTHERWISE INDICATED. VERTICAL BARS ARE TIE BARS SPACED AT APPROXIMATELY 450 mm CENTERS, AS SHOWN.
 5. CLASS A OR AA CONCRETE & REINF. STEEL QUANTITIES FOR STANDARD DROP INLETS, AS SHOWN IN TABLE, ARE FIGURED TO TOP OF CULVERT SLAB & INCLUDE CURB. FOR DROP INLETS OF GREATER DEPTH, MULTIPLY THE FIGURE IN THE PER METER COLUMN BY THE DIFFERENCE IN HEIGHT FROM TOP OF CULVERT SLAB TO TOP OF DROP INLET AND ADD THE RESULT TO THE STANDARD DROP INLET QUANTITY.
 6. MAXIMUM DEPTHS OF DROP INLETS FOR 900 mm x 600 mm TO 1800 mm x 1800 mm CONCRETE BOXES SHALL BE AS FOLLOWS:
- | | | | | |
|--------------------------|-------|--------|--------|--------|
| CLEAR SPAN OF CULVERT | 900 | 1200 | 1500 | 1800 |
| MAX. DEPTH OF DROP INLET | 5.8 m | 4.25 m | 3.65 m | 3.05 m |
7. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A FINISH IN ACCORDANCE WITH THE 1999 METRIC STANDARD SPECIFICATIONS, UNLESS OTHERWISE SHOWN IN THE PLANS.
 8. INLET TOP OPENING SHALL HAVE 75 mm x 3.43 kg STD. WEIGHT STEEL, GALVANIZED, SCHEDULE 40, PIPE SAFETY GRATES INSTALLED PERPENDICULAR TO THE DIRECTION OF TRAFFIC AT 300 mm (MAXIMUM) CENTERS. COST OF PIPE SAFETY GRATES & ALL HARDWARE NEEDED FOR INSTALLATION SHALL BE INCLUDED IN THE PRICE BID FOR THE INLET.
 9. PIPE GRATE ENDS SHALL BE HELD DOWN WITH M14 x 140 mm GALV. BOLT, WASHER & NUT MEETING THE REQUIREMENTS OF ASTM-A-325M. BOLT THREADS, 45 mm, SHALL REMAIN EXPOSED FOR INSTALLING GRATE.
 10. DROP INLET WALLS, FLOOR & CURB CONSTRUCTION SHALL CONSIST OF THE SAME CLASS OF CONCRETE USED FOR THE REINFORCED CONCRETE BOX.



BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
611.06(E)	INLET ●	EACH
611.06(F)	ADDITIONAL DEPTH IN INLET ●	METER

● INLET TYPE AND DESIGN NO. SHALL BE SPECIFIED.

APPROVED BY ROADWAY ENGINEER		DATE	
OKLAHOMA DEPT. OF TRANSPORTATION ROADWAY STANDARD (METRIC) REINFORCED CONCRETE DROP INLETS FOR REINFORCED CONCRETE BOXES 600 mm x 600 mm TO 1800 mm x 1800 mm			
1999 SPECIFICATIONS	(45° SKEW)	CD12-1	01M
ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS UNLESS OTHERWISE NOTED.			R-47M