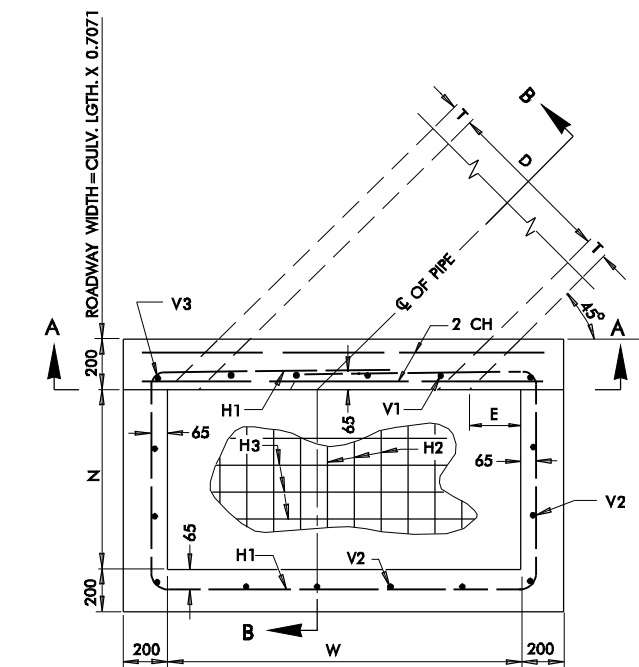
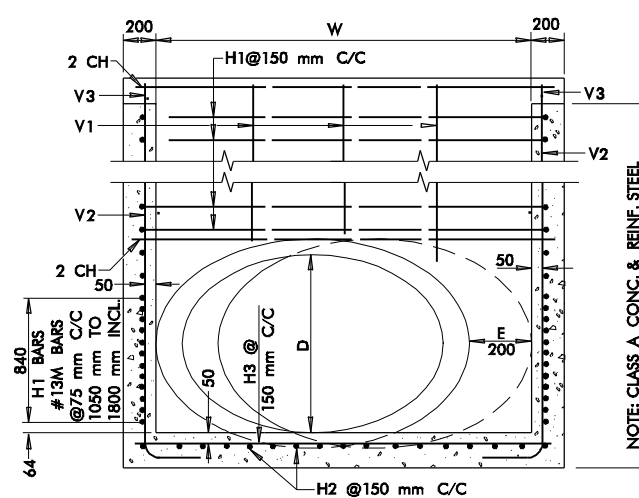


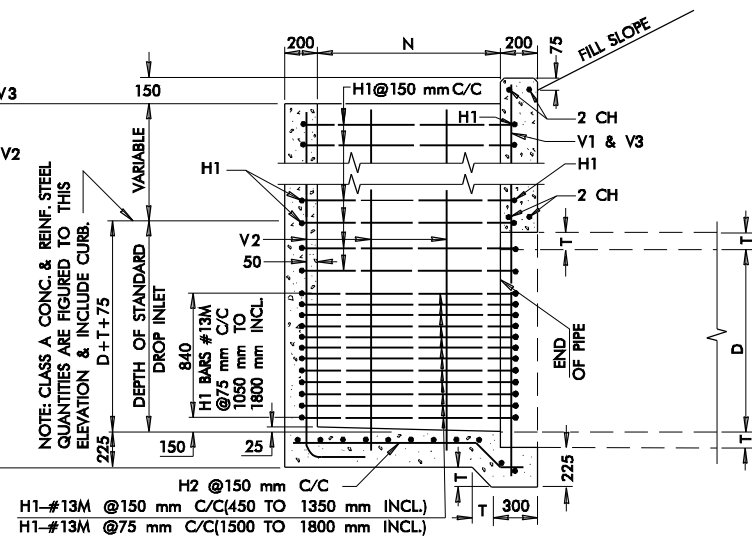
DESCRIPTION	REVISIONS	DATE
RE-ISSUE W/METRIC 1999 SPECS.		7/99



PLAN

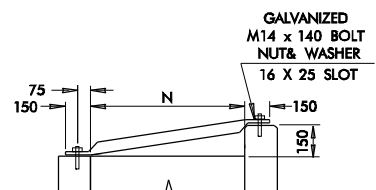


SECTION A-A

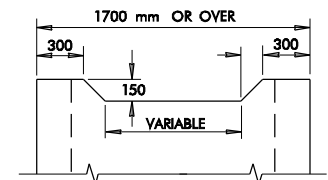


SECTION B-B

DIMENSIONS																				
DESIGN NO.	1	2	3	4	5	6	7	8	9	10										
D & N	450	600	750	900	1050	1200	1350	1500	1650	1800										
AREA SQ. METER	.159	.283	.442	.636	.866	1.131	1.431	1.767	2.138	2.545										
T (mm)	64	76	89	102	114	127	140	152	165	175										
E (mm)	200	200	200	200	200	200	200	200	200	200										
W (mm)	1015	1260	1510	1755	2005	2255	2505	2745	3000	3240										
REINFORCING STEEL																				
DESCRIPTION	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.
CH-STR. #13M BAR	4	1290	4	1525	4	1785	4	2030	4	2280	4	2530	4	2780	4	3020	4	3275	4	3515
H1-BENT #13M BAR	5	3250	6	4650	7	5450	8	6050	14	7000	15	7725	16	8575	17	9350	18	10150	19	10925
H2-BENT #13M BAR @ 150 mm C/C	7	750	8	900	9	1050	10	1200	11	1350	12	1500	13	1650	14	1800	15	1950	16	2100
H3-STR. #13M BAR	7	1215	8	1460	9	1710	10	1955	11	2205	12	2455	13	2705	14	2945	15	3200	16	3440
V1-STR. #13M BAR	2	290	3	325	4	365	4	400	5	440	5	475	6	515	6	550	7	590	7	625
V2-BENT #13M BAR	6	1050	6	1200	7	1350	8	1500	10	1650	10	1800	10	1950	11	2100	12	2250	14	2400
V3-BENT #13M BAR	2	1210	2	1360	2	1510	2	1660	2	1810	2	1960	2	2110	2	2260	2	2410	2	2560
QUANTITIES																				
CLASS A CONCRETE , CUBIC METERS																				
STANDARD DROP INLETS	0.71	1.02	1.39	1.82	2.30	2.85	3.45	4.11	4.83	5.59										
PER METER OF ADD'L DEPTH	0.75	0.90	1.06	1.22	1.38	1.54	1.70	1.86	2.02	2.18										
REINFORCING STEEL , KILOGRAMS																				
STANDARD DROP INLETS	48.0	63.9	84.4	105.3	169.7	198.8	232.9	270.1	311.2	355.4										
PER METER OF ADD'L DEPTH	32.8	43.7	51.4	59.1	70.9	73.9	85.3	94.1	106.5	118.4										
STEEL PIPE SAFETY GRATES																				
NO. OF PIPE SAFETY GRATES	3	4	5	5	6	7	8	9	10	10										



TYPICAL GRATE DETAIL

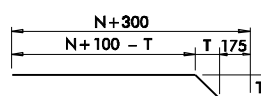


BUILD NOTCH AS SHOWN ON ALL DROP INLETS WHERE DIMENSION "W" IS 1.2 m OR MORE. NOTCHES TO BE PLACED IN LINE OF FLOW AS DIRECTED BY THE ENGINEER.

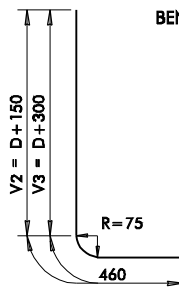
FLOW NOTCH DETAIL

GENERAL NOTES

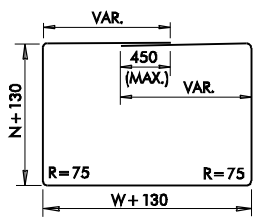
1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 1999 METRIC STANDARD SPECIFICATIONS.
2. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 20 mm CHAMFER.
3. TOTAL QUANTITIES AS SHOWN IN TABLE ARE COMPUTED TO TOP OF THE PIPE PLUS 75 mm AND INCLUDE CURB. FOR DROP INLETS OF GREATER DEPTH, MULTIPLY THE FIGURE IN THE PER METER COLUMN BY THE DIFFERENCE IN HEIGHT FROM TOP OF PIPE PLUS 75 mm TO TOP OF DROP INLET AND ADD THE RESULT TO THE STANDARD DROP INLET QUANTITY.
4. MAXIMUM DEPTH OF DROP INLETS FOR 1050 mm TO 1800 mm R.C.P. SHALL BE AS FOLLOWS:
900 mm RCP - 6.1 m
1050 mm RCP - 4.9 m
1200 mm RCP - 4.3 m
1350 mm RCP - 3.7 m
1500 mm RCP - 3.4 m
1650 mm RCP - 3.0 m
1800 mm RCP - 2.7 m
5. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A FINISH IN ACCORDANCE WITH 1999 METRIC STANDARD SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE.
6. INLET TOP OPENING SHALL HAVE 75 mm x 3.43 kg STD. WEIGHT STEEL PIPE, GALVANIZED, SCHEDULE 40, PIPE SAFETY GRATES INSTALLED PERPENDICULAR TO THE DIRECTION OF TRAFFIC AT 300 mm (MAXIMUM) CENTERS WITH COST OF PIPE SAFETY GRATES & ALL HARDWARE NEEDED FOR INSTALLATION TO BE INCLUDED IN THE PRICE BID FOR THE INLET.
7. 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.
8. BAR BENDING DIAGRAMS AND DIMENSIONS, AS SHOWN THIS SHEET, ARE FOR STANDARD DEPTH DROP INLETS.
9. ALL REINFORCING STEEL BARS SHALL BE #13M.



BENDING FOR H2 BARS



BENDING FOR V2 & V3 BARS



BENDING FOR H1 BARS
H1 = 2D + 2W + 970

BAR BENDING DIAGRAMS

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

INLET TYPE AND DESIGN NUMBER SHALL BE SPECIFIED.

APPROVED BY ROADWAY ENGINEER		DATE	
OKLAHOMA DEPT. OF TRANSPORTATION ROADWAY STANDARD (METRIC) REINFORCED CONCRETE DROP INLETS FOR 450 mm TO 1800 mm REINF. CONCRETE PIPES			
1999 SPECIFICATIONS	(45° SKEW)	CD15-1	00M
ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS UNLESS OTHERWISE NOTED.			R-69M