

DIMENSIONS

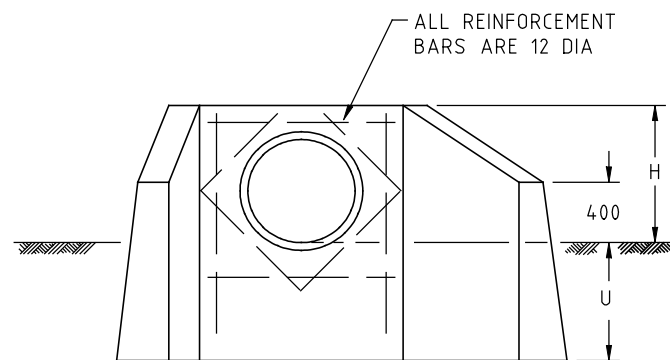
SKEW ANGLE DEGREE	FLARE ANGLE DEGREE	NOM PIPE DIA	EXTERNAL PIPE DIA*	A	H	K	L	M	N	O	U	TYPE 1 *SLOPE AT 1.5:1						TYPE 2 *SLOPE AT 2:1						TYPE 3 *SLOPE AT 3:1					
												B	B1	C	D	F	P	B	B1	C	D	F	P	B	B1	C	D	F	P
15	30	600	698	1199	854	250	117	740	430	201	650	681	182	2062	681	705	963	908	243	2350	908	940	1284	1362	365	2926	1362	1410	1926
		675	781	1285	933	280	120	780	470	202	650	800	214	2299	800	828	1131	1066	286	2636	1066	1104	1508	428	3312	1599	1655	2261	
		750	864	1371	1013	310	122	820	510	201	650	920	246	2537	920	952	1300	1226	329	2925	1226	1269	1734	493	3702	1839	1904	2601	
		825	946	1456	1092	340	125	870	550	201	650	1038	278	2772	1038	1075	1468	1384	371	3210	1384	1433	1957	556	4088	2076	2149	2936	
		900	1029	1542	1172	370	126	910	590	201	650	1158	310	3010	1158	1199	1638	1544	414	3499	1544	1598	2184	621	4478	2316	2398	3275	
		1050	1194	1712	1330	440	132	990	700	211	750	1395	374	3481	1395	1444	1973	1860	498	4071	1860	1926	2630	748	5250	2790	2888	3946	
1200	1359	1883	1489	500	134	1060	770	207	750	1634	438	3954	1634	1691	2310	2178	584	4645	2178	2255	3080	875	6026	3267	3382	4620			
30	30	600	698	1337	854	250	117	740	430	201	650	1180	0	2517	681	681	1362	1573	0	2910	908	908	1816	2359	0	3696	1362	1362	2724
		675	781	1433	933	280	120	780	470	202	650	1385	0	2818	800	800	1599	1846	0	3279	1066	1066	2132	2770	0	4203	1599	1599	3198
		750	864	1529	1013	310	122	820	510	201	650	1593	0	3121	920	920	1839	2123	0	3652	1226	1226	2452	3185	0	4714	1839	1839	3678
		825	946	1624	1092	340	125	870	550	201	650	1798	0	3421	1038	1038	2076	2397	0	4021	1384	1384	2768	3596	0	5219	2076	2076	4152
		900	1029	1719	1172	370	126	910	590	201	650	2006	0	3725	1158	1158	2316	2674	0	4394	1544	1544	3088	4011	0	5731	2316	2316	4632
		1050	1194	1910	1330	440	132	990	700	211	750	2416	0	4326	1395	1395	2790	3222	0	5131	1860	1860	3720	4832	0	6742	2790	2790	5580
1200	1359	2100	1489	500	134	1060	770	207	750	2829	0	4930	1634	1634	3267	3772	0	5873	2178	2178	4356	5659	0	7759	3267	3267	6534		
45	20	600	698	1638	854	250	117	740	430	201	650	1460	-318	2781	681	751	1611	1947	-423	3161	908	1002	2149	2921	-635	3923	1362	1503	3223
		675	781	1755	933	280	120	780	470	202	650	1715	-373	3097	800	882	1892	2286	-497	3544	1066	1176	2522	3429	-746	4438	1599	1764	3784
		750	864	1872	1013	310	122	820	510	201	650	1972	-429	3416	920	1015	2176	2629	-572	3930	1226	1353	2901	3944	-858	4959	1839	2029	4351
		825	946	1988	1092	340	125	870	550	201	650	2226	-484	3730	1038	1145	2456	2968	-645	4311	1384	1527	3275	4452	-968	5472	2076	2291	4912
		900	1029	2106	1172	370	126	910	590	201	650	2483	-540	4049	1158	1278	2740	3311	-720	4697	1544	1704	3653	4967	-1080	5992	2316	2555	5480
		1050	1194	2339	1330	440	132	990	700	211	750	2992	-650	4680	1395	1539	3301	3989	-867	5461	1860	2052	4401	5983	-1301	7021	2790	3078	6602
1200	1359	2572	1489	500	134	1060	770	207	750	3503	-762	5314	1634	1802	3865	4671	-1016	6228	2178	2403	5154	7006	-1523	8055	3267	3605	7730		

* THEORETICAL SLOPE OF WINGWALL MEASURED AT RIGHT ANGLES TO THE ROADWAY.

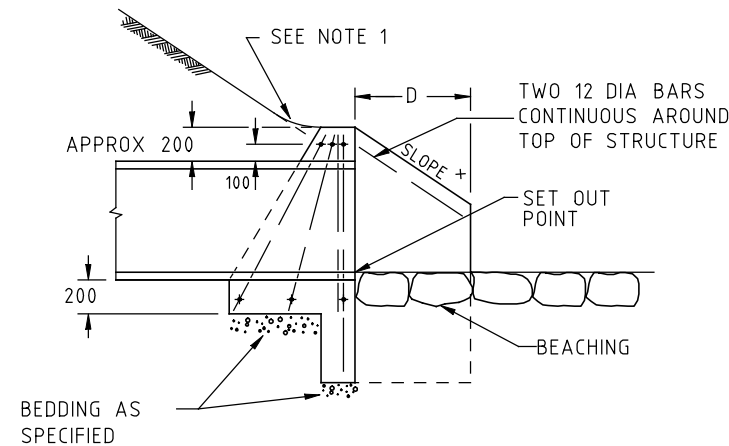
APPROXIMATE ONLY

NOTES:

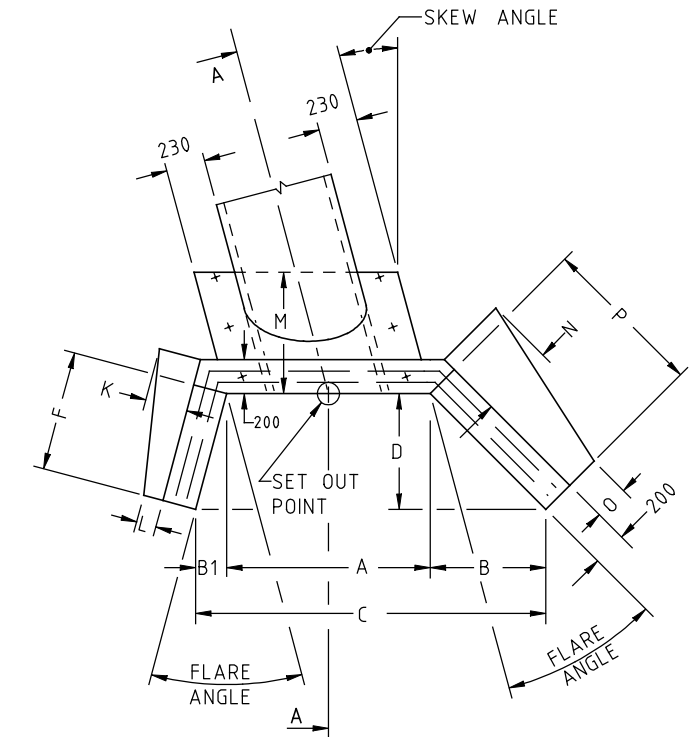
- BECAUSE THE RELATION OF THE BATTER TO THE TOP OF THE ENDWALL IS ESSENTIAL FOR THE SAFETY OF THE MOTORIST, THE DETAILS AS SHOWN IN SECTION A-A MUST BE ADHERED TO DURING CONSTRUCTION.
- REINFORCEMENT BARS SHALL COMPLY WITH AS/NZS 4671, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN, AND CLEAR COVER 50 MIN.
- EXPOSED EDGES SHALL HAVE 20 x 20 CHAMFERS.
- COMPACTION PRESSURE BEHIND WALLS NOT TO EXCEED 15 kPa. (1.5 TONNE VIBRATORY ROLLER OR 300 kg VIBRATING PLATE WITHIN 0.5m OF WALL).
- REFER TO SD 1882 FOR QUANTITIES
- CONCRETE SHALL BE NORMAL-CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.
- CONCRETE AGGREGATES SHALL COMPLY WITH TABLE 701.021 OF VICROADS STANDARD SPECIFICATION SECTION 701.
- ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS 3600.



END ELEVATION



SECTION A-A



PLAN

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ISSUE	APP'D	DATE	AMENDMENT
E			
D			
C	J.K.	1/7/05	NOTE 2 AMENDED
B	J.C.	1/2/98	AMENDMENT TO NOTE 6, NOTES 7 & 8 ADDED, CONCRETE STRENGTH GRADES
A	J.C.	1/2/95	NOTES 2, 5 & 6, GENERAL NOTES 1 & 2

GENERAL NOTES	
1.	ALL DIMENSIONS ARE IN MILLIMETRES.
2.	CULVERT INLET AND OUTLET STRUCTURES - SELECTION GUIDE

DESIGNED	PRINCIPAL ROAD DESIGN ENGINEER
APPROVED	1.2.95
CATALOG PROJECT FILENAME	PRED sddgnnew sd-1881c.dgn

vicroads design
ENGINEERING & TECHNOLOGY CONSULTANTS

3 PROSPECT HILL ROAD,
CAMBERWELL,
VICTORIA, 3124
PHONE NO. (03) 9811 8355
FAX NO. (03) 9811 8329

SCALE HOR OF METRES VER NOT TO SCALE

STANDARD DRAWING				
MASS CONCRETE WINGWALL				
TYPES 1, 2 & 3				
SKEW PIPE CULVERTS 600 TO 1200 DIA				
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE
			SD 1881	C