

DIMENSIONS

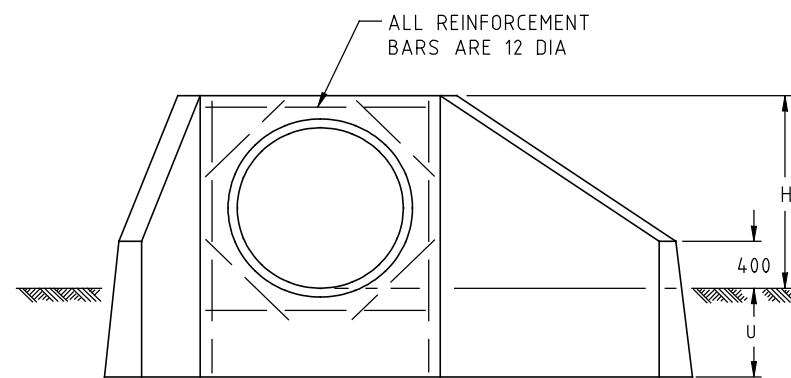
SKEW ANGLE DEGREE	FLARE ANGLE DEGREE	NOM PIPE DIA	EXTERNAL PIPE DIA*	A	H	K	L	M	N	O	U	TYPE 1 *SLOPE AT 1.5:1						TYPE 2 *SLOPE AT 2:1						TYPE 3 *SLOPE AT 3:1					
												B	B1	C	D	F	P	B	B1	C	D	F	P	B	B1	C	D	F	P
15	30	1350	1524	2054	1648	530	129	1130	830	201	760	1872	502	4428	1872	1938	2647	2496	669	5219	2496	2584	3530	3744	1003	6801	3744	3876	5295
		1500	1676	2211	1800	580	129	1200	910	202	760	2100	563	4874	2100	2174	2970	2800	750	5762	2800	2899	3960	4200	1125	7537	4200	4348	5940
		1650	1842	2383	1959	630	129	1260	990	202	760	2339	627	5348	2339	2421	3307	3118	835	6337	3118	3228	4410	4677	1253	8313	4677	4842	6614
		1800	2006	2553	2117	690	130	1320	1080	204	760	2576	690	5819	2576	2666	3642	3434	920	6907	3434	3555	4856	5151	1380	9084	5151	5333	7285
		1950	2198	2752	2296	750	131	1370	1180	206	760	2844	762	6358	2844	2944	4022	3792	1016	7560	3792	3926	5363	5688	1524	9964	5688	5889	8044
2100	2388	2948	2474	810	131	1420	1280	207	760	3111	834	6893	3111	3221	4400	4148	1111	8208	4148	4294	5866	6222	1667	10838	6222	6441	8799		
30	30	1350	1524	2291	1648	530	129	1130	830	201	760	3242	0	5533	1872	1872	3744	4323	0	6614	2496	2496	4992	6485	0	8776	3744	3744	7488
		1500	1676	2466	1800	580	129	1200	910	202	760	3637	0	6104	2100	2100	4200	4850	0	7316	2800	2800	5600	7275	0	9741	4200	4200	8400
		1650	1842	2658	1959	630	129	1260	990	202	760	4050	0	6709	2339	2339	4677	5401	0	8059	3118	3118	6236	8101	0	10759	4677	4677	9354
		1800	2006	2847	2117	690	130	1320	1080	204	760	4461	0	7308	2576	2576	5151	5948	0	8795	3434	3434	6868	8922	0	11769	5151	5151	10302
		1950	2198	3069	2296	750	131	1370	1180	206	760	4926	0	7995	2844	2844	5688	6568	0	9637	3792	3792	7584	9852	0	12921	5688	5688	11376
2100	2388	3289	2474	810	131	1420	1280	207	760	5388	0	8677	3111	3111	6222	7185	0	10473	4148	4148	8296	10777	0	14065	6222	6222	12444		
45	20	1350	1524	2806	1648	530	129	1130	830	201	760	4015	-873	5947	1872	2066	4430	5353	-1164	6995	2496	2754	5906	8029	-1746	9089	3744	4131	8859
		1500	1676	3021	1800	580	129	1200	910	202	760	4503	-979	6545	2100	2317	4969	6005	-1306	7720	2800	3089	6625	9007	-1958	10069	4200	4634	9938
		1650	1842	3256	1959	630	129	1260	990	202	760	5015	-1090	7180	2339	2580	5533	6687	-1454	8488	3118	3440	7378	10030	-2181	11104	4677	5160	11067
		1800	2006	3487	2117	690	130	1320	1080	204	760	5523	-1201	7810	2576	2842	6094	7364	-1601	9250	3434	3789	8126	11046	-2402	12132	5151	5683	12188
		1950	2198	3759	2296	750	131	1370	1180	206	760	6099	-1326	8532	2844	3138	6729	8132	-1768	10123	3792	4184	8973	12198	-2652	13305	5688	6276	13459
2100	2388	4028	2474	810	131	1420	1280	207	760	6672	-1451	9249	3111	3433	7361	8895	-1934	10989	4148	4577	9815	13343	-2901	14469	6222	6865	14723		

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

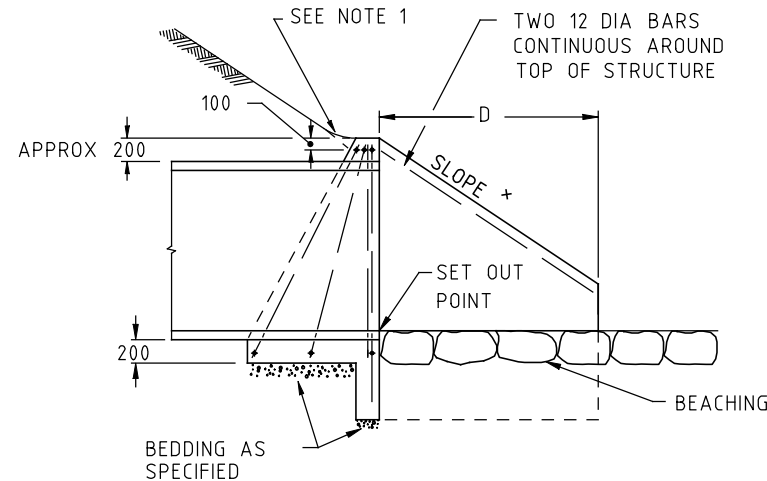
# APPROXIMATE ONLY

NOTES:

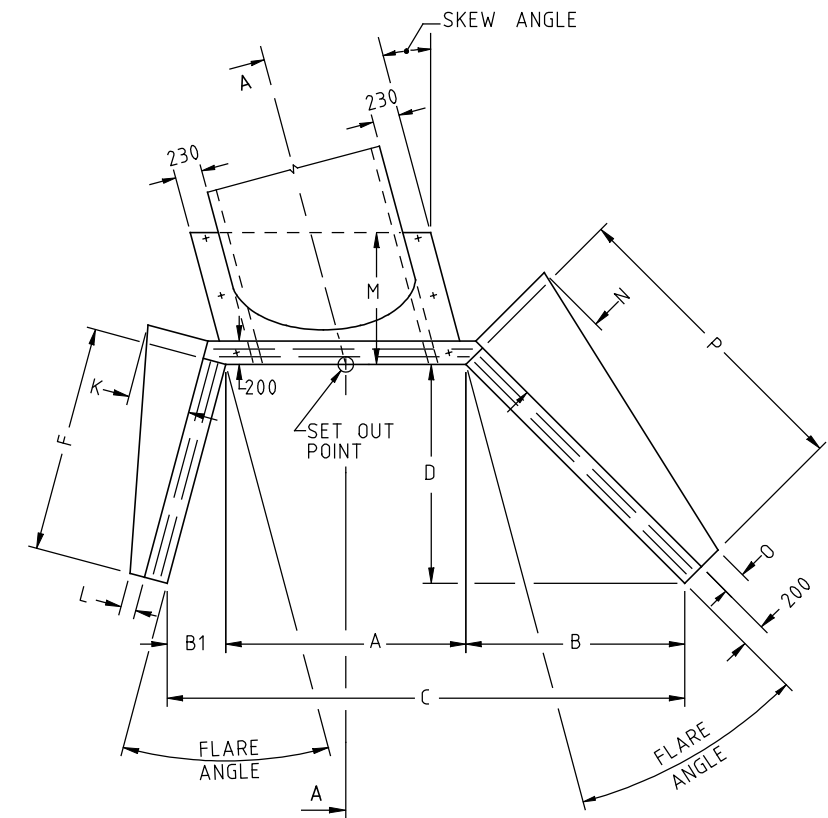
- BECAUSE THE RELATION OF THE BATTER TO THE TOP OF THE ENDWALL IS ESSENTIAL FOR THE SAFETY OF THE MOTORIST, THE DETAILS AS SHOWN IN SECTION A-A MUST BE ADHERED TO DURING CONSTRUCTION.
- REINFORCEMENT BARS SHALL COMPLY WITH AS/NZS 4671, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN, AND CLEAR 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 1892 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

SD 1700

DESIGNED	PRINCIPAL ROAD DESIGN ENGINEER	 3 PROSPECT HILL ROAD, CAMBERWELL, VICTORIA, 3124 PHONE NO. (03) 9811 8355 FAX NO. (03) 9811 8329
APPROVED	1.2.95 <i>J. Cunningham</i>	
CATALOG PROJECT FILENAME	PRED sddgnnew sd-1891c.dgn	SCALE OF METRES VER
		NOT TO SCALE

STANDARD DRAWING				
MASS CONCRETE WINGWALL				
TYPES 1, 2 & 3				
SKEW PIPE CULVERTS 1350 TO 2100 DIA				
FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE
			SD 1891	C