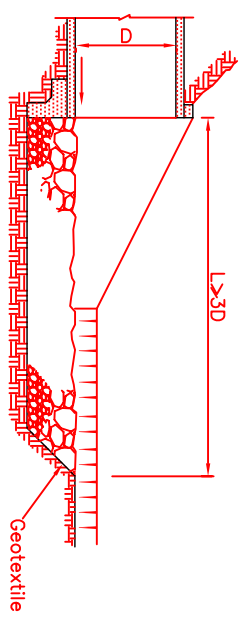


DROP OUTLET GRADE N25 CONCRETE

SINGLE LAYER 10kg ROCK (200 DIA.) TO BATTER FACES. DOUBLE LAYER OF PLACED ROCK(300 Dia) OVER CLASS B GEOTEXTILE AT TOE OF DROP.
ENDWALL GENERALLY AS PER 3402-2/P13,P14

DROP TO BE SIMILAR FOR BOX CULVERTS
MAX. DROP = 1.5m
ROCK SIZE AS SPECIFIED.
DROP OUTLETS SHALL NOT BE USED IN STREAMS WHERE NATIVE FISH ARE LIKELY TO BE PRESENT.



ROCK DISPERSING-APRON

APRON TO HAVE TOP LAYER OF 250mm - 300mm STONE OVER CLASS B GEOTEXTILE. TOP LAYER TO BE WELL INTERLOCKED.
FOR MULTI-PIPE CULVERTS APRON TO EXTEND FROM WINGWALL TO WINGWALL AS SHOWN ABOVE
FOR ENDWALLS WITH CONCRETE APRON PLACE ROCK 3D FROM END OF APRON

NOT TO SCALE

DRAFTING		DESIGN		DEPARTMENT OF INFRASTRUCTURE, ENERGY AND RESOURCES, TASMANIA	
No.	AMENDMENTS	CHECKED	DATE	APPROVED	DATE
1	ROCK SIZE AMENDED		6/86	RW	
2					
3					
4					
5	GEOTEXTILE AND FISH PASSAGE NOTE ADDED		7/03	GKR	
6	DROP HEIGHT LIMITED		8/96	GKR	
7					
8					
DRAWN		CHECKED	DATE	DESIGNED	DATE
MARCH 83			8/83	T. W.	MARCH 83
RECOMMENDED/CHECKED		DATE	DATE	DATE	DATE
W. D. COOMES		18/3/83	19/3/83		
APPROVED		DATE	DATE	DATE	DATE
K. R. SAMS		3/83	19/3/83		
APPROVED		DATE	DATE	DATE	DATE
L. J. BAILEY		19/3/83			
CULVERT OUTLET PROTECTION					
CONTRACT No.		FROM LINK No. / DISTANCE		TO LINK No. / DISTANCE	
3402-2/P19-3					
SHEET No.					