DISTRICT ROADS SUPPORT PROGRAMME

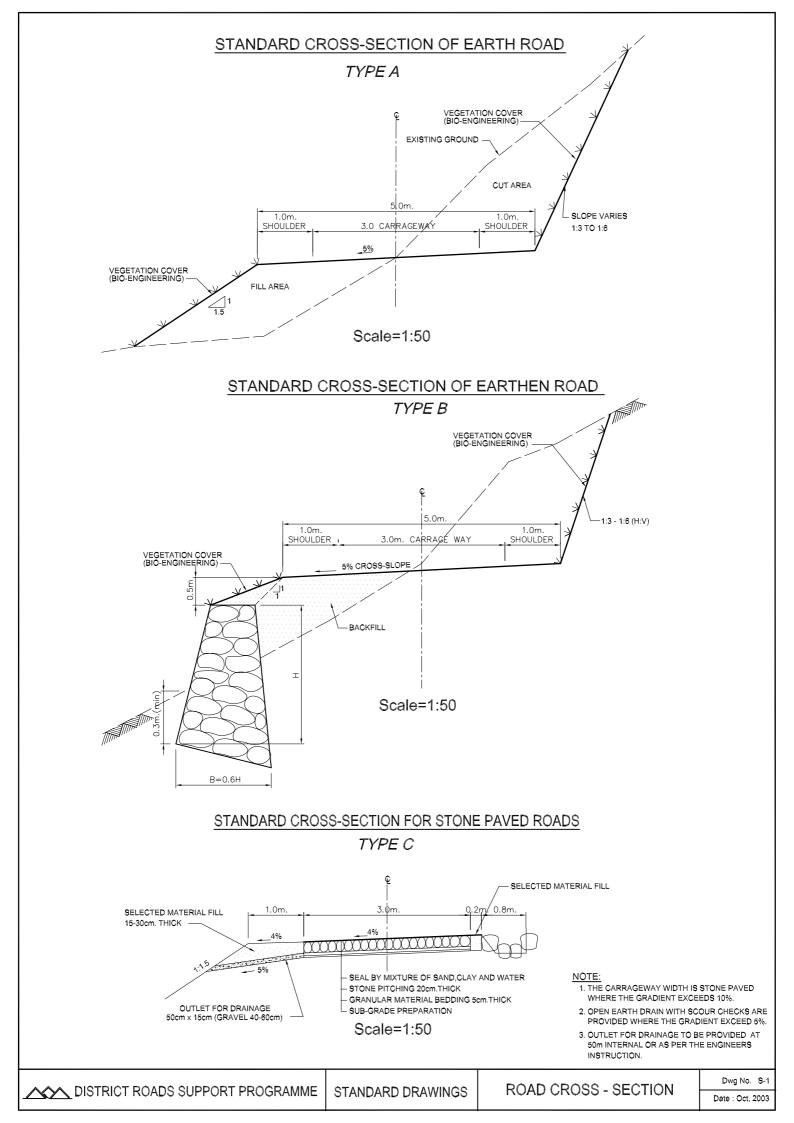
District Authorities in Collaboration with Swiss Agency for Development and Cooperation

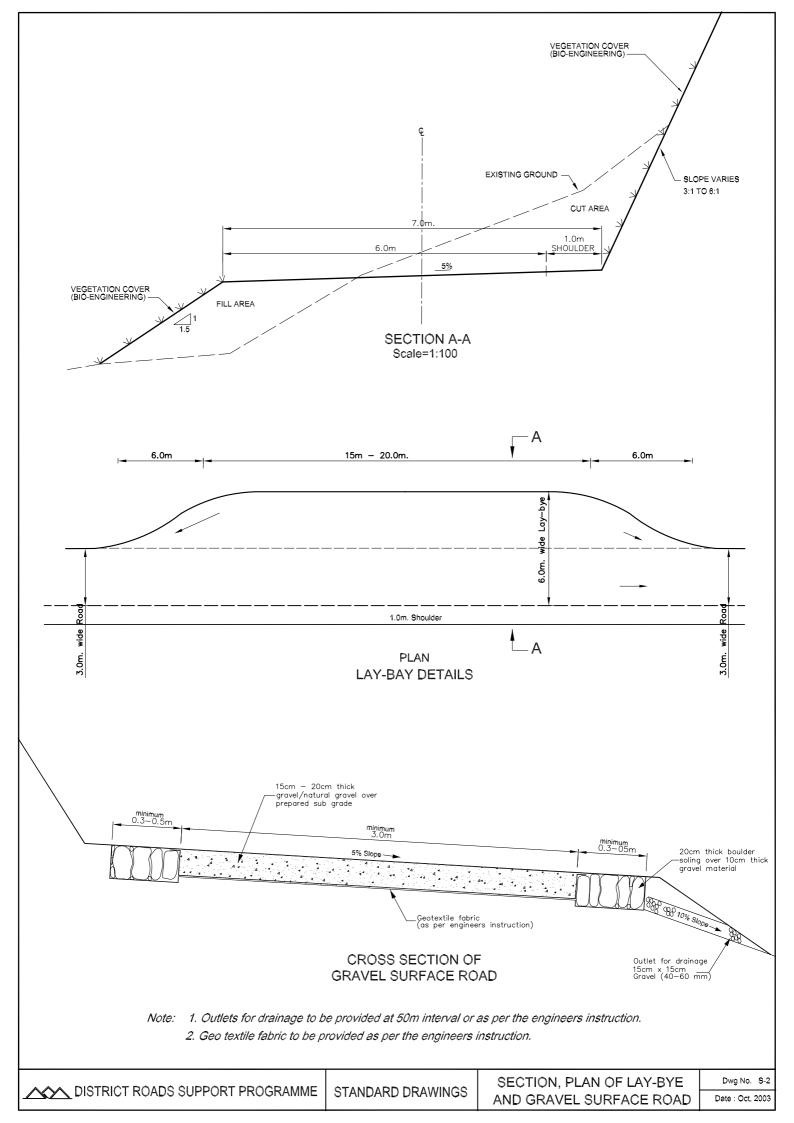
Standard Drawings

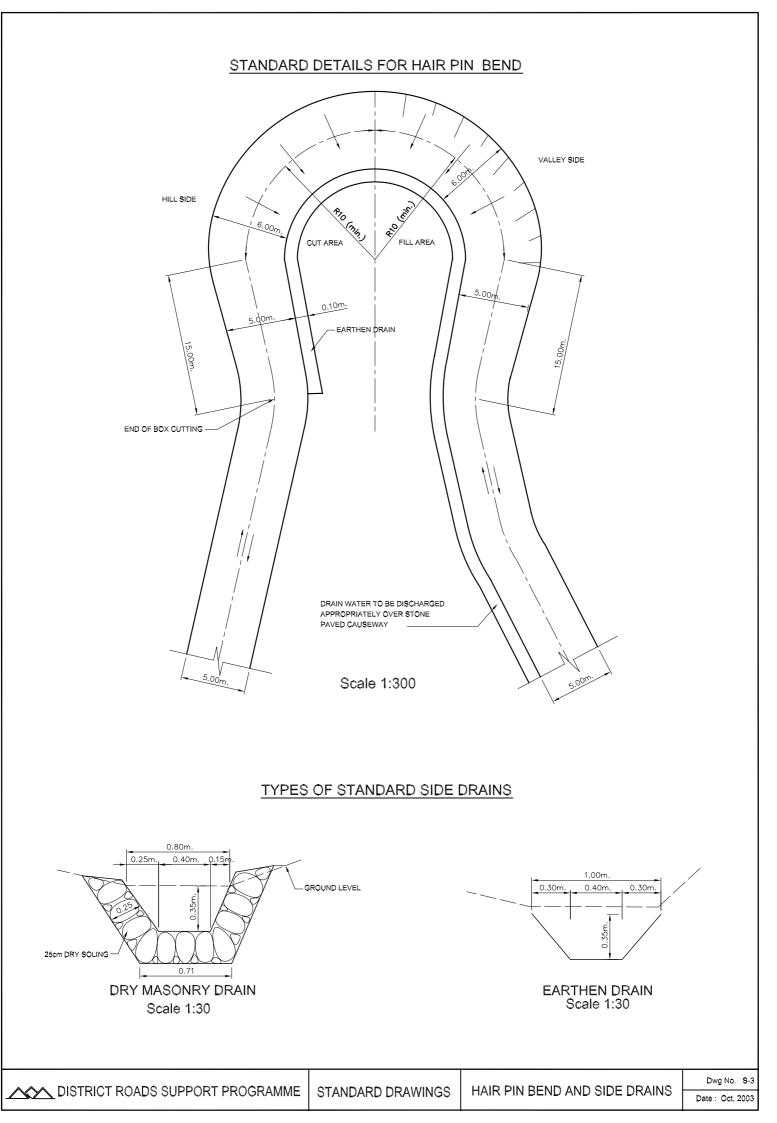
(Draft)

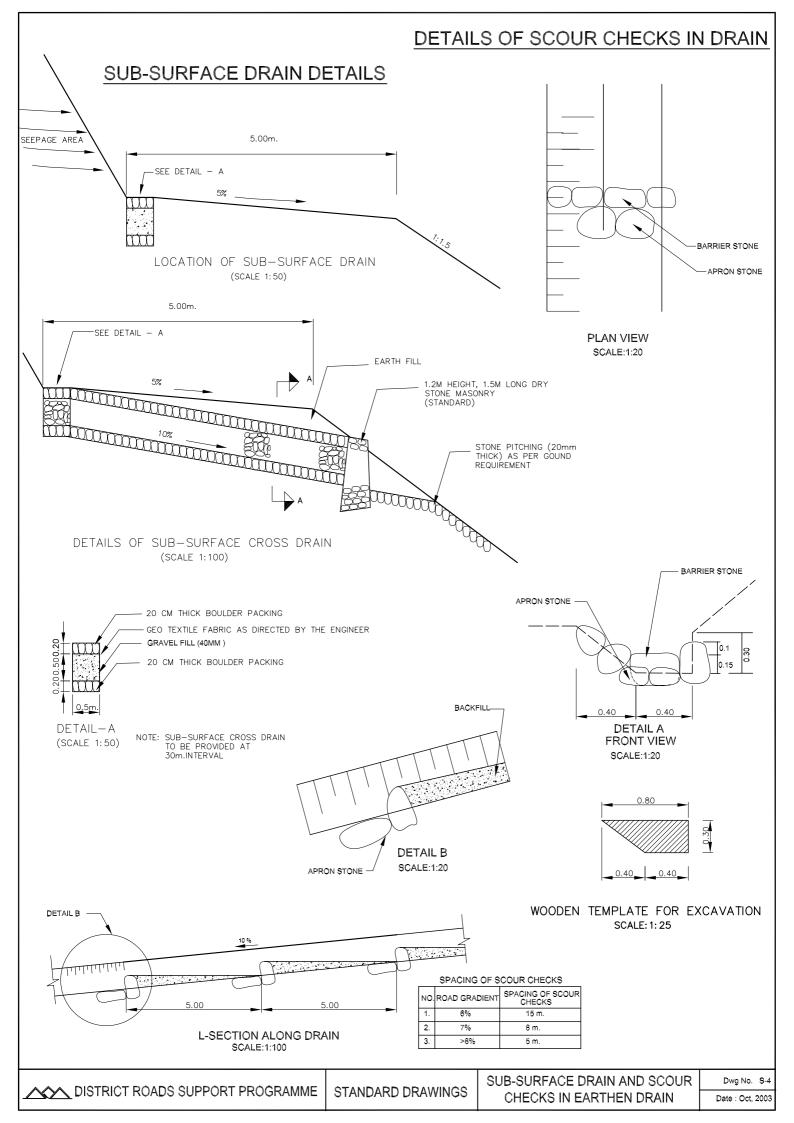
October, 2003











RETAINING WALL-STANDARD TYPES

1x1

1x2 1x1.5

 \mathbb{N}

 \bowtie

THE MOUNTAIN SIDE WALL

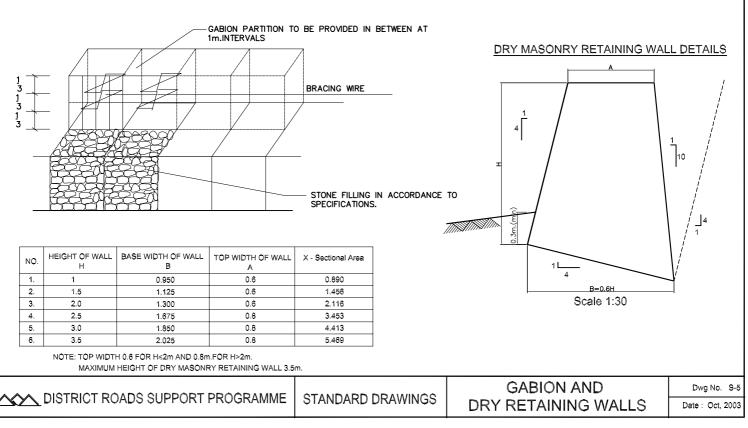
TYPE H (Heavy)	는 TYPE L 은 (Light)	ЛГТ	HEIGHT	AREA (m?)		DIST.FRONT-WALL TO	LAYER STEP (m)		
				Туре Н	Type L	CENTRE LINE (m)	Туре Н	Type L	
н 2:	3:1	L 2:	3:1	H = 2m	3.5	2.5	3.00	_	GABION
н 3:		L 3:	3:1	H = 3m	5.0	4.0	3.00	0.25	0.25

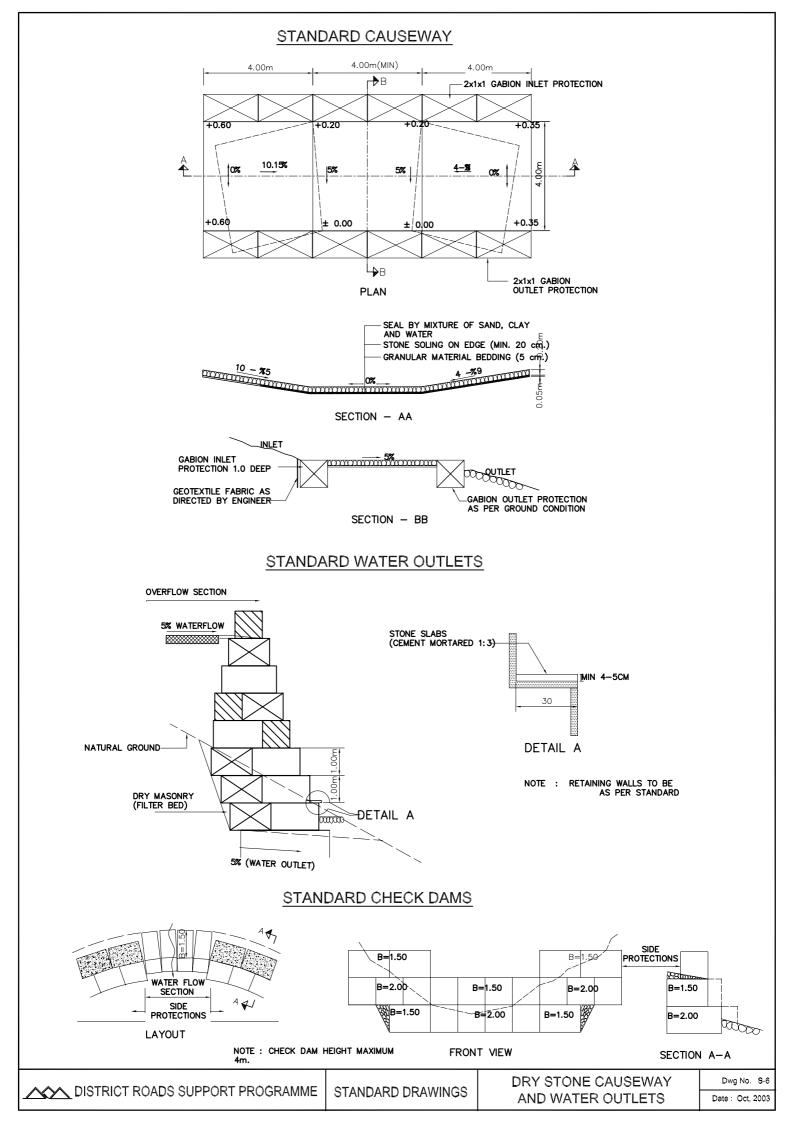
THE VALLEY SIDE WALL

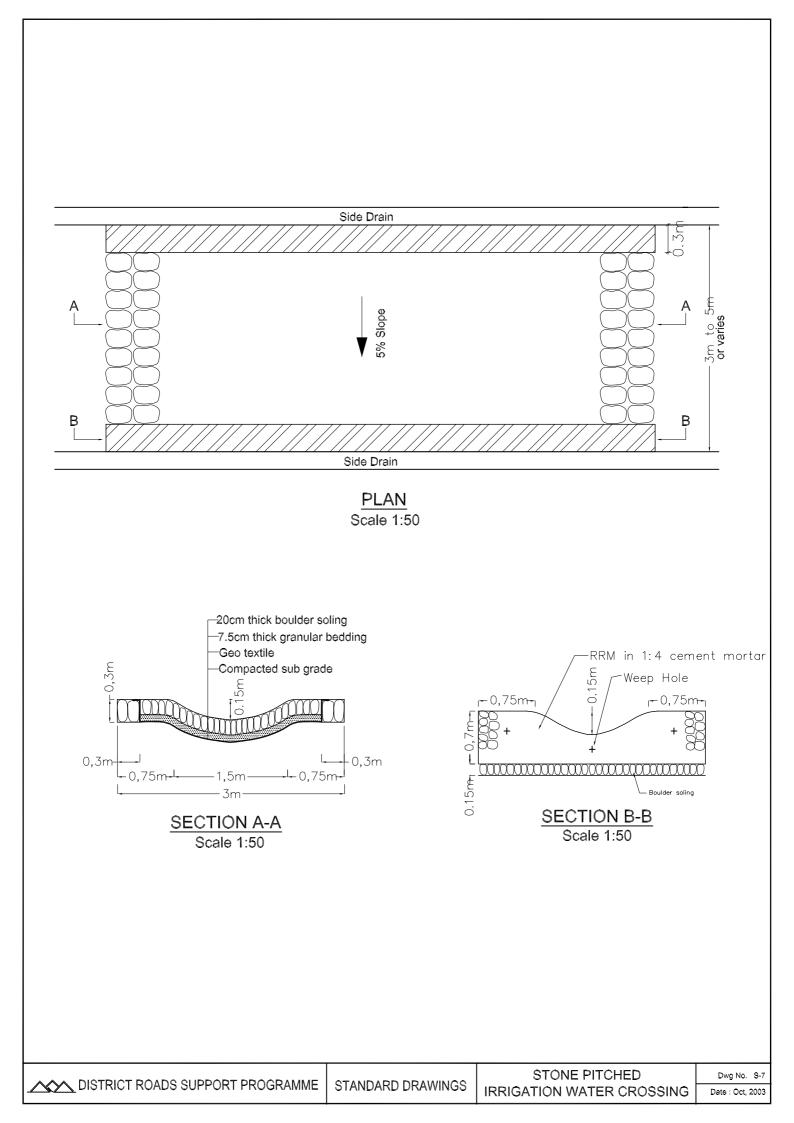
TYPE H (Heavy)	ЛГТ	TYPE L (Light)	TLT	HEIGHT	AREA (m?)		DIST.FRONT-WALL TO CENTRE LINE (m)		LAYER STEP (m)	
					Туре Н	Type L	Туре Н	Type L	Туре Н	Type L
DRAINAGE H 4-B:	NO TILT (WATER FLOW)	NORMAL L 4-8:	5:1	2m	2.5	2.5	3.30	3.40	0.30	0.25
				3m	4.5	4.5	3.60	3.85	0.30	-
				4m	7.0	6.5	3.90	4.05	0.40	0.25
				5m	10.0	9.0	4.30	4.50	0.40	-
				6m	13.5	11.5	4.70	4.70	0.50	0.25
				7m	17.0	14.5	5.20	5.15	0.50	0.25
				8m	20.5	17.5	5.70	5.60	0.50	0.25

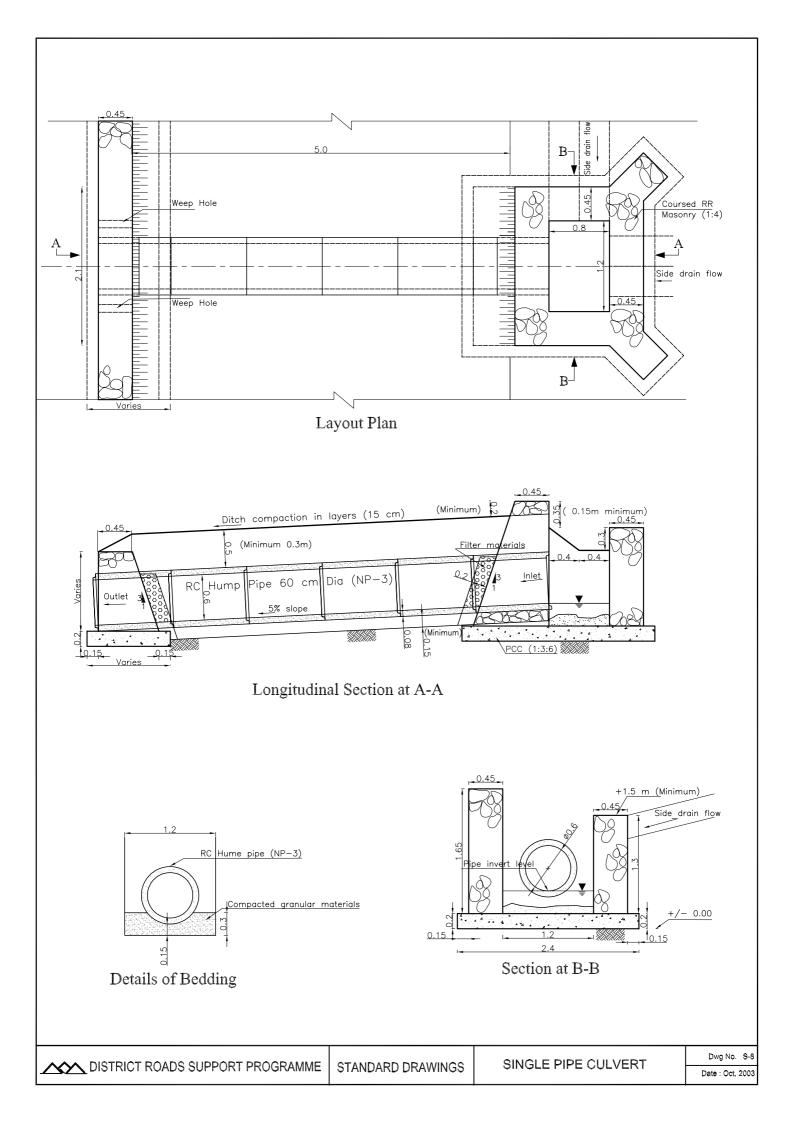
NOTE: GEOTEXTILE FABRIC TO BE PROVODED ON REAR SIDE OF TYPE H (DRAINAGE) GABION WALL.

THE FILLING OF GABION BOXES

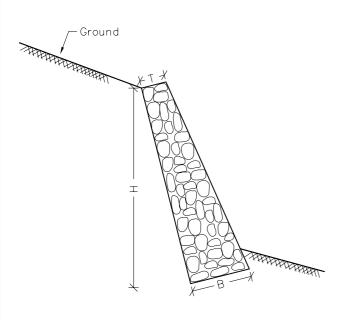








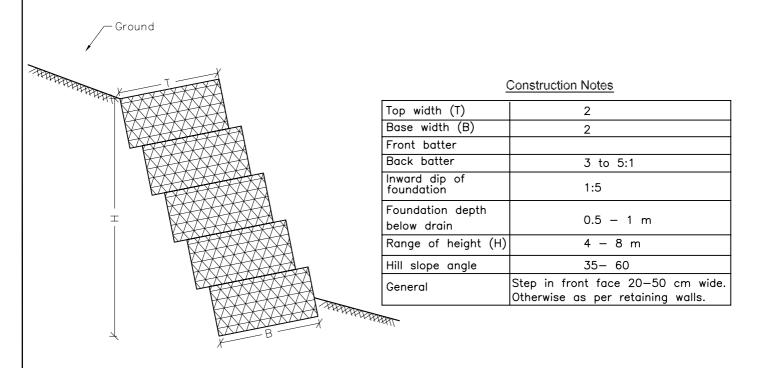
DRY STONE WALL



Construction Notes

Top width (T)	0.5					
Base width (B)	0.29 H	0.3 H	0.33 H			
Front batter	2:1	2:1	3:1			
Back batter	3:1	4:1	5:1			
Inward dip of foundation	1:3	1:4	1:5			
Foundation depth below drain	0.5 m	0.5 m	0.5 m			
Range of height (H)	6 m	4 m	3 m			
Hill slope angle	35-60					
General Pack stone along foundation b Use bond stones. Specify minir stone size.						

GABION WALL



Notes

- 1. The typical dimensions shown rely both on well-drained backfill and good foundation conditions.
- 2. Detailed design is necessary in case of soil slopes and walls higher than 6 m and poor foundation conditions.
- 3. Dry stone breast walls are used when the foundation conditions are uniform and geo-technically favourable i.e fairly dry and stable slope with low earth pressure.
- 4. Gabion walls should be used in weak foundation, wet soils, high ground water, high seepage areas etc.
- 5. For the gabion breast wall upto 3m height, standard drawing no. S-5 shall be used.

DISTRICT ROADS SUPPORT PROGRAMME STANDARD DRAWINGS BREAST WALLS / Dwg No. S-9 REVETMENT WALL Dete : Oct, 2003

