



TYPICAL CROSS SECTION

NOTES:

1. Unless otherwise shown, dimensions are in millimeters.
2. For design and layout, H' and B' may be considered equal to H and B , respectively.
3. DESIGN DATA:
 Weight of earth = 18.8 kN/m^3 .
 Weight of rock-filled gabions = 17.3 kN/m^3 .
 Angle of repose = 34° ($1\frac{1}{2}:1$ slope)
 Design earth pressure:
 Horizontal - 12.6 kN/m^3 equivalent fluid pressure
 Vertical - 6.3 kN/m^3 equivalent fluid pressure
4. CONSTRUCTION:
 Fractional height courses (300 or 600 mm) will be permitted only in the top course next to the foundation.
 Wire baskets may be omitted from any 915 mm square section which is surrounded on all four sides by standard baskets and on ends by baskets not less than 1830 mm in length.
 Provide underdrain outlets at all low points, and intervals not to exceed 30 meters.

NUMBER OF COURSES	"H" m	"B" m	GABIONS m^3/m
1	0.915	0.915	0.255
2	1.830	1.830	0.766
3	2.745	2.745	1.532
4	3.660	2.745	2.298
5	4.575	3.660	3.320
6	5.490	3.660	4.341
7	6.405	4.575	5.618
8	7.320	4.575	6.895
9	8.235	5.490	8.427
10	9.150	5.490	9.959

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NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION EASTERN FEDERAL LANDS HIGHWAY DIVISION	
METRIC DETAIL	
GABION RETAINING WALL	
DETAIL APPROVED FOR USE	DETAIL
REVISED: 01/08	EM253-01