DETAILS

ARCHITECTURAL DRAWINGS
TYPICAL RETAINING WALL

- 2-Ø LONGITUDINAL BARS
- 75 MM M15 PCC (1:2:4)
- 20 MM AGGREGATE
- 4.75Ø C-HOOK DISTRIBUTION BARS @300 MM C/C
- SLOPE AT (V:H)1:10
- 100 x 100 MM WEEP HOLES @ 1.5 M STAGGERED
- 1.6 C/S MORTAR RRM WALL
- 500 MM THICK FILLER MEDIA WITH APPROVED MATERIAL
- GEOTEXTILE MEMBRANE AT THE WALL SURFACE
- 150 MM RIVER BOULDER SOLING

100 MM M10 PCC (1:3:6)

Hf SLOPE AT (H:V)1:10

G.L.

S.N. H (m) SBC 80 KN/m² SBC 100 KN/m² SBC 150 KN/m² Remarks
1 1 0.50 0.45 0.50 0.45 0.50 0.45 0.40
2 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
3 3 1.80 0.60 1.80 0.60 1.80 0.60 0.60
4 4 2.40 0.70 2.40 0.70 2.40 0.70 0.75
5 5 3.95 0.75 3.95 0.75 3.95 0.75 1.00

1. Unit Weight of Soil = 17 KN/m³
2. Unit Weight of Masonry = 24 KN/m³
3. Angle of Repose = 35°
4. Angle of Internal Friction = 30°

Note: Maximum Separation gap @ (10-15) mm c/c of wall length with (75-100) mm gap.

STANDARD DESIGN OF RRM RETAINING WALL

NOTE: EXPANSION JOINT @10M-15M
Note:
1) All the dimensions are in mm.
2) Expansion Joints should be 10 cm @ 10-15 m c/c
3) Permissable Height and Breadth
   -Height of the breast wall (H) should be equal to the five times the breadth of the breast wall (B) (i.e. H=5B)
   -B should not be less than 600 mm (i.e. B≥600 mm)
   -Height of the breast wall should not be less than 3000 mm (i.e. H<3000 mm)

2-Ø LONGITUDINAL BARS with 4.75mm TMT or eqv C-hook @300mm c/c

STONE MASONRY (OF 1:4 C/S)

SLOPE AT (V:H)1:100

SLOPE AT (H:V)1:4

150

600

150

100 ø WEEP HOLES @ 1.5 M STAGGERED (10 SLOPE DOWN)

PCC (1:2:4)

Geo Textile Sheet

150

TYPICAL SECTION OF BREAST WALL (STONE MASONRY IN 1:4 C/S)
400 X 400 Column

175mm long holdfast

16 gauge MS flat sheet

50x50x5 MS angle framing

MAIN GATE PLAN

MAIN GATE ELEVATION

SECTION AT B-B

Government of Nepal, Ministry Of Education
Central Level Project Implementation Unit (CLPIU)

CLIENT

PROJECT TITLE

SHEET TITLE

CONSULTANT

PLANNING DESIGN TEAM

DETAILS

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Disaster Resilience of Public School Infrastructure and Community (DR-PSIC)

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DWG CODE: DET-03

921
**CHAINLINK FENCE SECTIONAL ELEVATION**

**CHAINLINK FENCE PLAN**
SECTIONAL PLAN OF RCC WATER TANK

WATER TANK SCHEDULE

<table>
<thead>
<tr>
<th>USER NUMBER</th>
<th>CAPACITY (liter)</th>
<th>LENGTH (L)</th>
<th>WIDTH (W)</th>
<th>HEIGHT (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upto 500</td>
<td>15000</td>
<td>4.0 m</td>
<td>2.5 m</td>
<td>1.5 m</td>
</tr>
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</tbody>
</table>

### SECTION AT X-X

- Distribution 8@150/c/c
- Vertical 10@150/c/c
- Distribution 8@150/c/c
- 12@200/c/c
- 8@200/c/c
- 8@200/c/c
- 6@200/c/c
- 6@200/c/c
- Free board
- 12.5mm thick Plaster(1:3) on ceiling
- 20mm thick Plaster(1:4) on wall
- 3 mm thick cement sand punning
- 20mm thick Plaster(1:4) on floor
- Elastocrete cementitious elastometric water proofing
- 3" th. P.C.C.(1:2:4)
- 200mm thick River boulder soling

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Central Level Project Implementation Unit (CLPIU)

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WATER TANK SCHEDULE

SHEET NO. DET-06