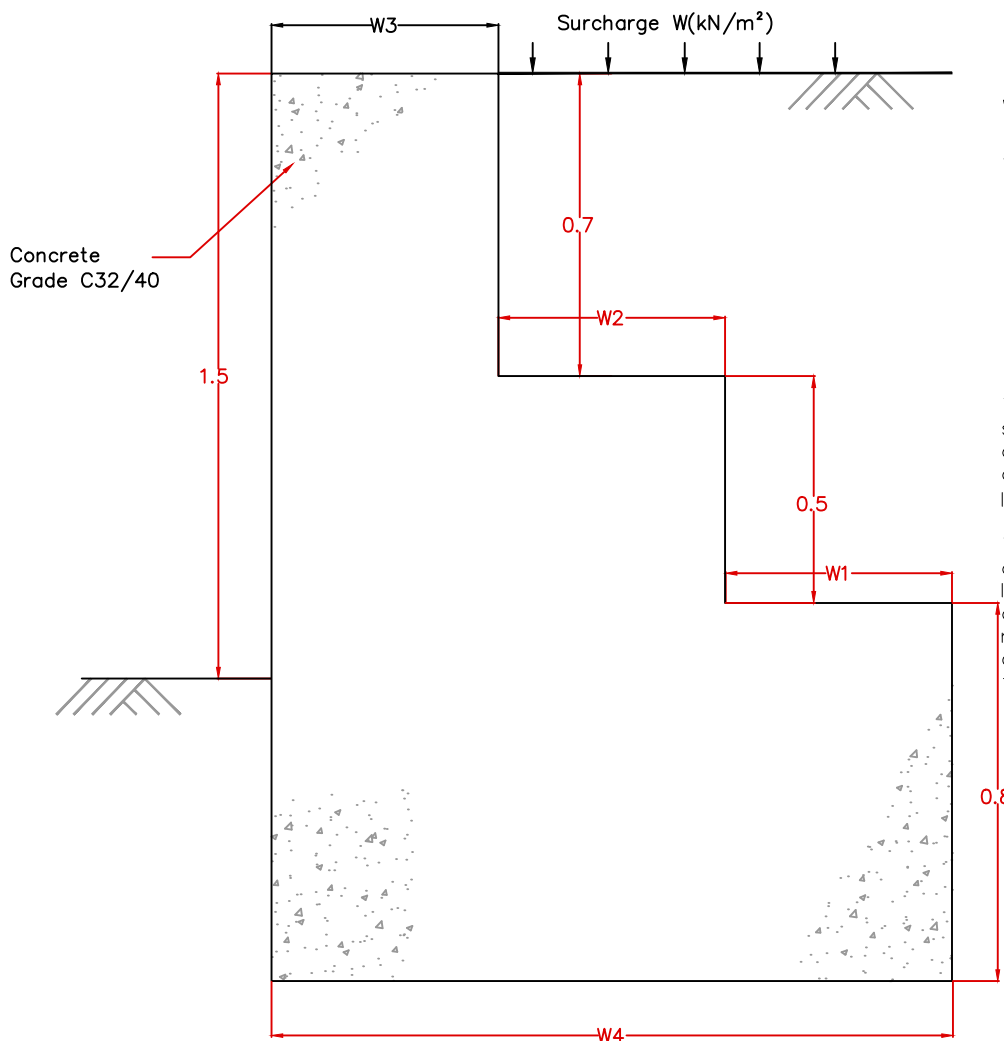


| Rev. | Amendments | Date | Made By | Chk'd By |
|------|------------|------|---------|----------|
| | | | | |
| | | | | |



Wall designed to EC7.

Assumptions made for this design :

- Angle of friction on base = 35 degrees
- No fence or parapet is fixed to the wall
- Water table is below formation level
- Bearing capacity of the ground below the foundation is 150kN/m².

The ground below the foundation should be checked that the angle of friction is at least 35 degrees and the bearing capacity is at least 150kN/m².

The dimensions shown in the table are only applicable to walls at locations that meet the above criteria. If these criteria are not met then the walls should be designed to suit the prevailing factors.

| Retained Height h (m) | Surcharge W(kN/m ²) | W1 (m) | W2 (m) | W3 (m) | W4 (m) |
|-----------------------|---------------------------------|--------|--------|--------|--------|
| 1.5 | 12 | 0.40 | 0.45 | 0.50 | 1.40 |
| | 5 | 0.40 | 0.35 | 0.45 | 1.20 |
| | 0 | 0.30 | 0.30 | 0.40 | 1.00 |

Typical sizes for various retained heights.

All mass concrete retaining walls must also include:

- A back of wall drainage system;
- Weepholes;
- Joints at appropriate spacings;
- Finishes to highway specification standards.

CONCRETE RETAINING WALL (Height 1.5m)

HIGHWAY DESIGN GUIDE STANDARD DETAILS

RHONDDA CYNON TAF
COUNTY BOROUGH COUNCIL



| | |
|----------|---------|
| Drawn | AM |
| Checked | MR |
| Date | Apr '11 |
| Scale | NTS |
| Drg. No. | 281 |
| Rev. | |