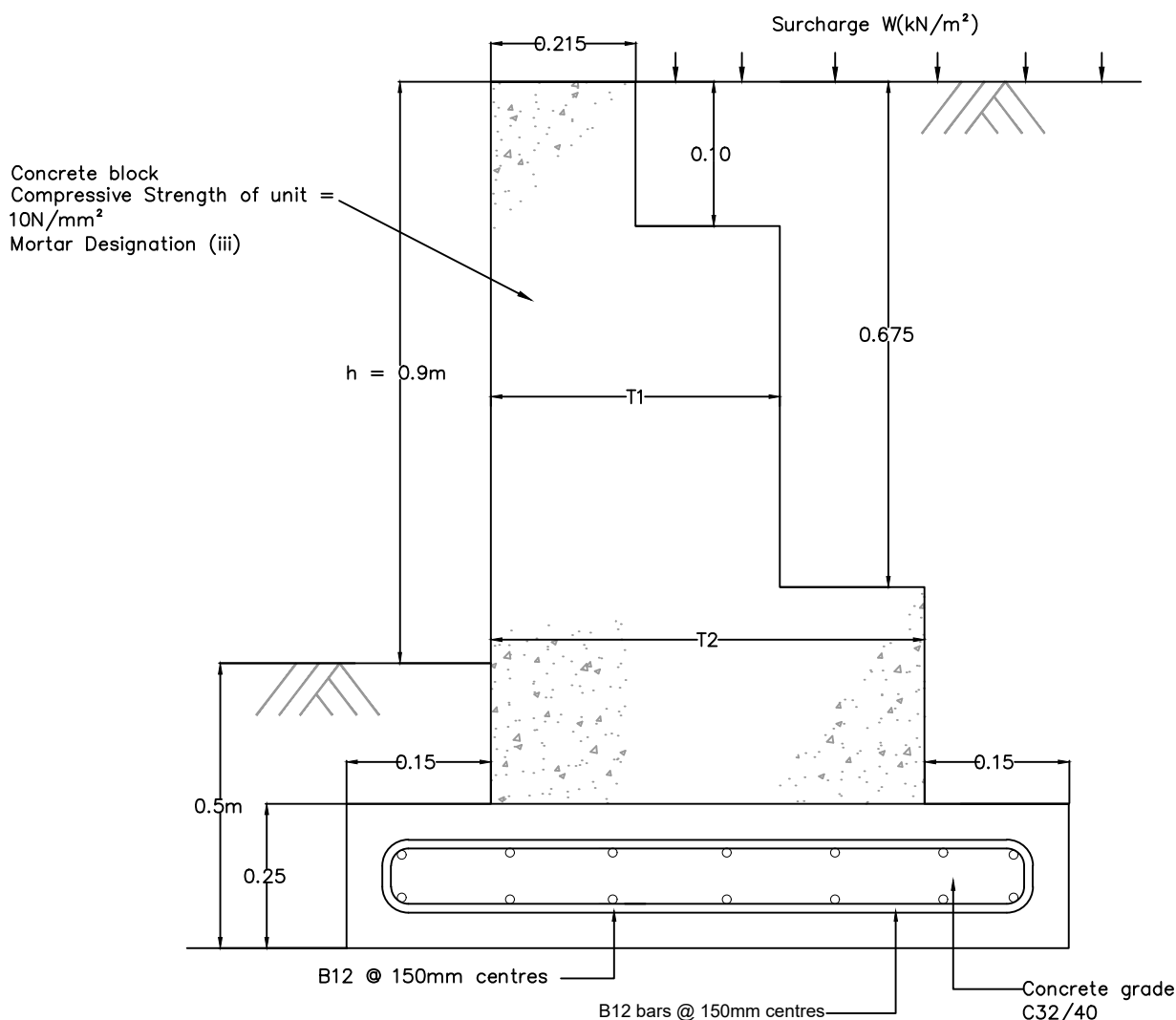


Rev.	Amendments	Date	Made By	Chk'd By

Note Cover to reinforcement= 50mm



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/m<sup>2</sup>.

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/m<sup>2</sup>.

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 <sup>2</sup> )	T1 (m)	T2 (m)
0.9	12	0.425	0.675
	5	0.350	0.560
	0	0.325	0.475

All masonry gravity retaining walls must also include:

- A back of wall drainage system;
- Weepholes;
- Joints at appropriate spacings;
- Finishes to highway standards.
- The reinforced concrete foundation slab must be laid on a blinding layer 75mm thick.
- The buried reinforced concrete foundation slab must also be waterproofed with two coats of bitumen.

## TYPICAL MASONRY GRAVITY WALL (HEIGHT 0.9M)

COMMON STANDARDS FOR WALES  
HIGHWAY DESIGN GUIDE

Drawn	MT
Checked	SZ
Date	Feb '20
Scale	N.T.S.
Drg. No.	605
Rev.	