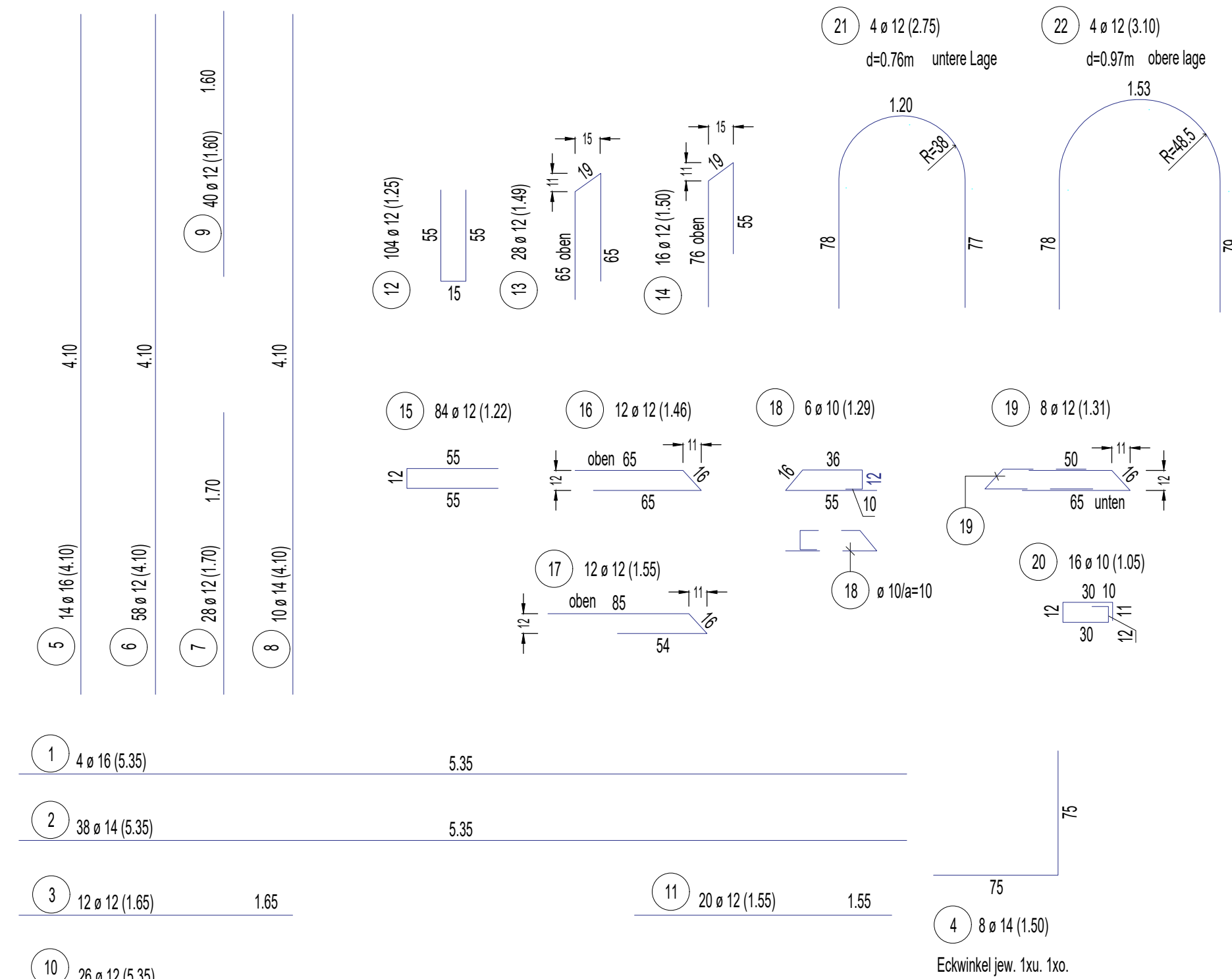
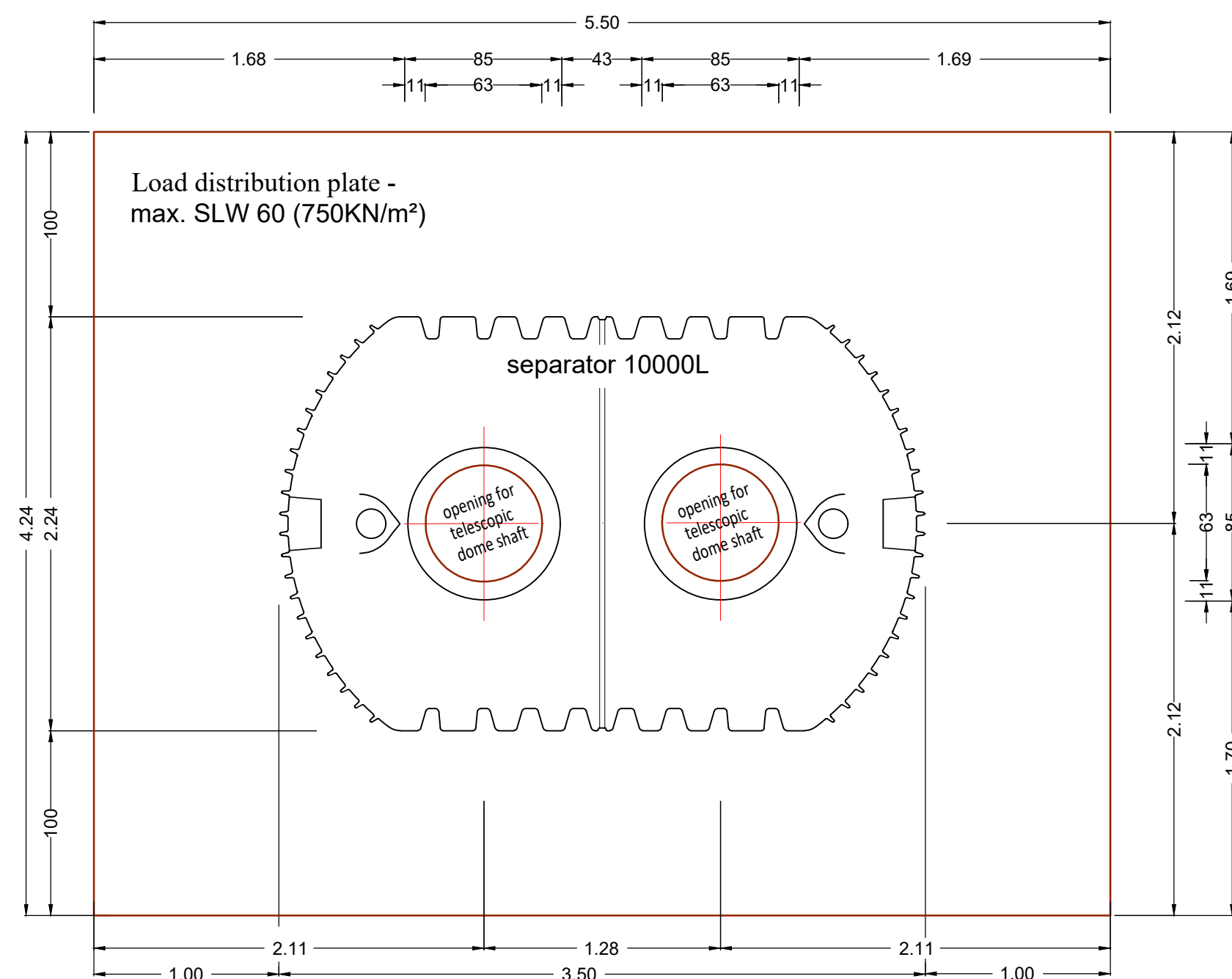


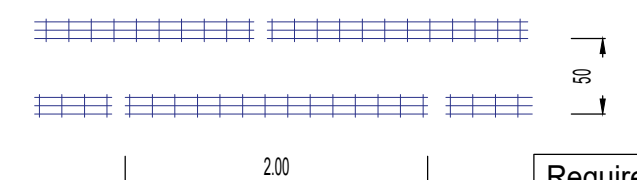


rebar (DIN 488):  
round steel: B500B,  
construction steel mats: B500A

| Rebar - BOM BST - 500 S |       |    |          |           |        |  |
|-------------------------|-------|----|----------|-----------|--------|--|
| position                | piece | Ø  | length m | weight kg | TL m   |  |
| 1                       | 4     | 16 | 5,350    | 8,453     | 21,40  |  |
| 2                       | 38    | 14 | 5,350    | 6,474     | 203,30 |  |
| 3                       | 12    | 12 | 1,650    | 1,465     | 19,80  |  |
| 4                       | 8     | 14 | 1,500    | 1,815     | 12,00  |  |
| 5                       | 14    | 16 | 4,100    | 6,478     | 57,40  |  |
| 6                       | 58    | 12 | 4,100    | 3,641     | 237,80 |  |
| 7                       | 28    | 12 | 1,700    | 1,510     | 47,60  |  |
| 8                       | 10    | 14 | 4,100    | 4,961     | 41,00  |  |
| 9                       | 40    | 12 | 1,600    | 1,421     | 64,00  |  |
| 10                      | 26    | 12 | 5,350    | 4,751     | 139,10 |  |
| 11                      | 20    | 12 | 1,550    | 1,376     | 31,00  |  |
| 12                      | 104   | 12 | 1,250    | 1,110     | 130,00 |  |
| 13                      | 28    | 12 | 1,490    | 1,323     | 41,72  |  |
| 14                      | 16    | 12 | 1,500    | 1,332     | 24,00  |  |
| 15                      | 84    | 12 | 1,220    | 1,083     | 102,48 |  |
| 16                      | 12    | 12 | 1,460    | 1,296     | 17,52  |  |
| 17                      | 12    | 12 | 1,550    | 1,376     | 18,60  |  |
| 18                      | 6     | 10 | 1,290    | 0,796     | 7,74   |  |
| 19                      | 8     | 12 | 1,310    | 1,163     | 10,48  |  |
| 20                      | 16    | 10 | 1,050    | 0,648     | 16,80  |  |
| 21                      | 4     | 12 | 2,750    | 2,442     | 11,00  |  |
| 22                      | 4     | 12 | 3,100    | 2,753     | 12,40  |  |

|                                     |            |            |                   |
|-------------------------------------|------------|------------|-------------------|
| <b>Total amount (rebar - 500 s)</b> |            |            |                   |
| 10                                  | 0,617 kg/m | 24,54 m    | 15,14 kg          |
| 12                                  | 0,888 kg/m | 907,50 m   | 805,86 kg         |
| 14                                  | 1,21 kg/m  | 256,30 m   | 310,12 kg         |
| 16                                  | 1,58 kg/m  | 78,80 m    | 124,50 kg         |
| <b>total weight</b>                 |            |            | <b>1255,63 kg</b> |
|                                     |            |            |                   |
| <b>Spacer type DBV-DT-12-B-L</b>    |            |            |                   |
| DBV-DT-12-B-L                       | 8 x 2,0 m  | 0,507 kg/m | 8,12 kg           |
| <b>total weight spacer</b>          |            |            | <b>8,12 kg</b>    |

Spacer:  
distribution plate h=25cm:  
8 x 2 m DBV-DT-12-B-L



Required soil characteristics:

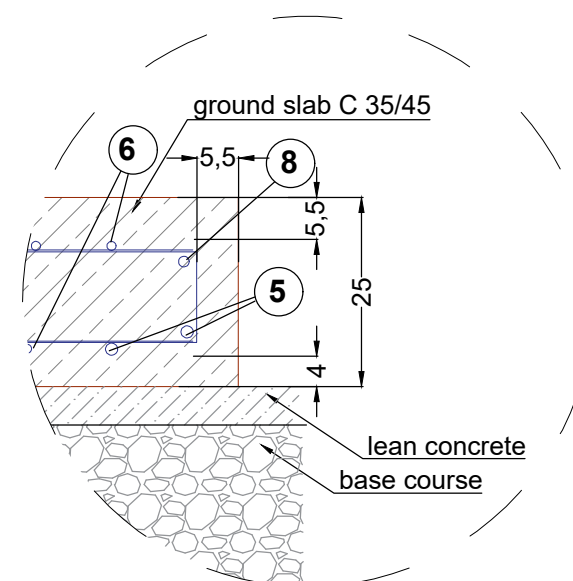
- Soil group 1, specific weight  $20\text{KN/m}^3$ , friction angle  $35^\circ$
- Modulus of subgrade as a rigid number:  $23\text{MPa}=23000\text{ KN/m}^2$

| Concrete (DIN EN 206-1/1045-2) Concrete joints produce rough |                        |                      |                                            |
|--------------------------------------------------------------|------------------------|----------------------|--------------------------------------------|
| component                                                    | exposure class         | compressive strength | concrete cover                             |
| lean concrete                                                | XC0, W0                | C 8 / 10             | --                                         |
| ground slab                                                  | XC4, XD3, XF4, XM2, WA | C 40 / 50            | below 4cm - on top 5,5cm<br>lateral 5,5 cm |

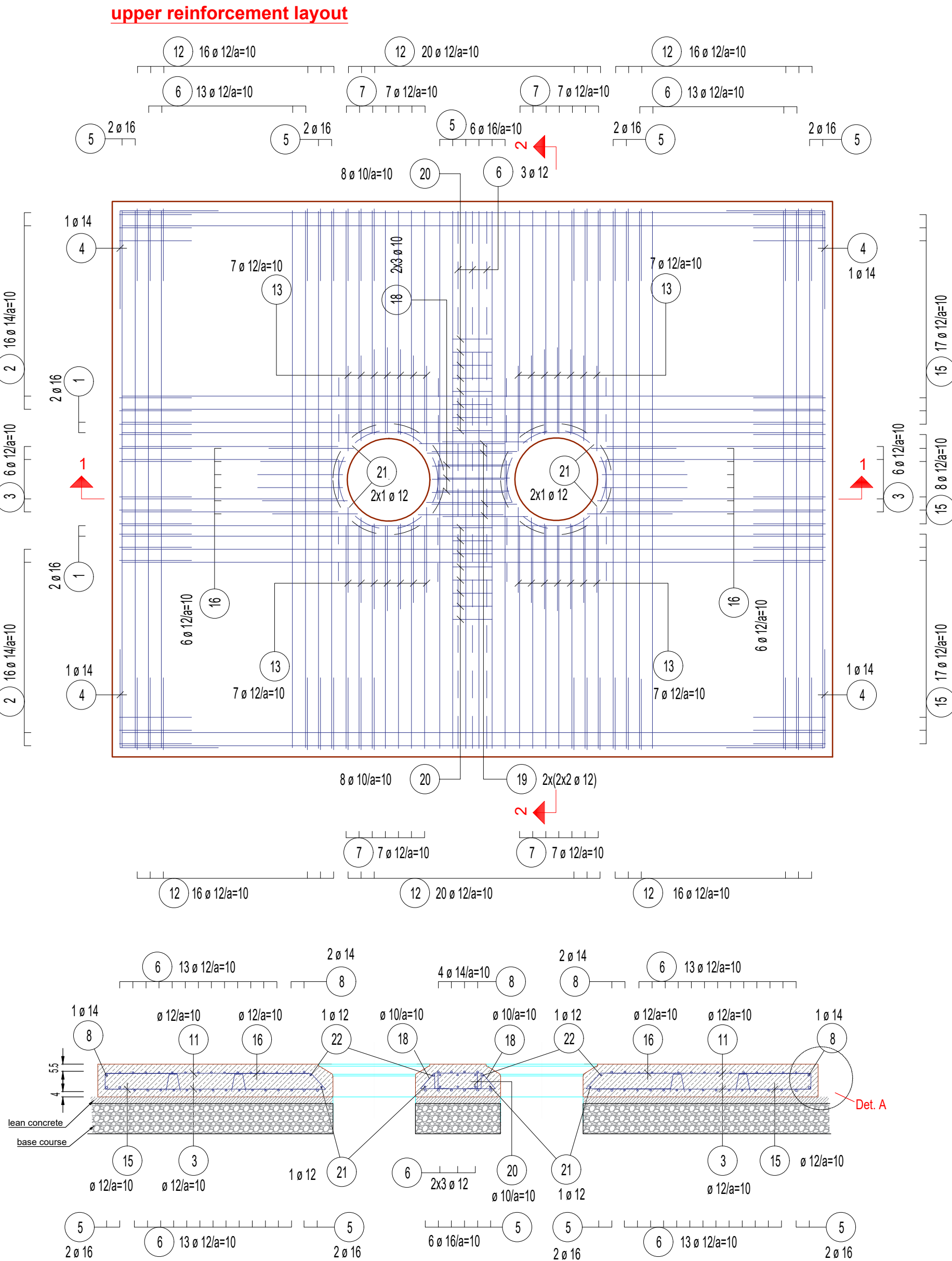
Depending on requirements, additional surface protection or the use of concrete additive is required.  
This needs to be checked by the construction management on site!

The ground slab has to be installed on a homogenous compacted ground. The ground has to be able to take a load.  
Underneath the ground slab a subbase (lean concrete) of 5 cm has to be installed.

Underneath the subbase a by hand compacted base course has to be installed.  
This base course has to be build in layers.  
The frost-free thickness has to be adapted of the local given.



Detail A M 1:10



## section 1-1