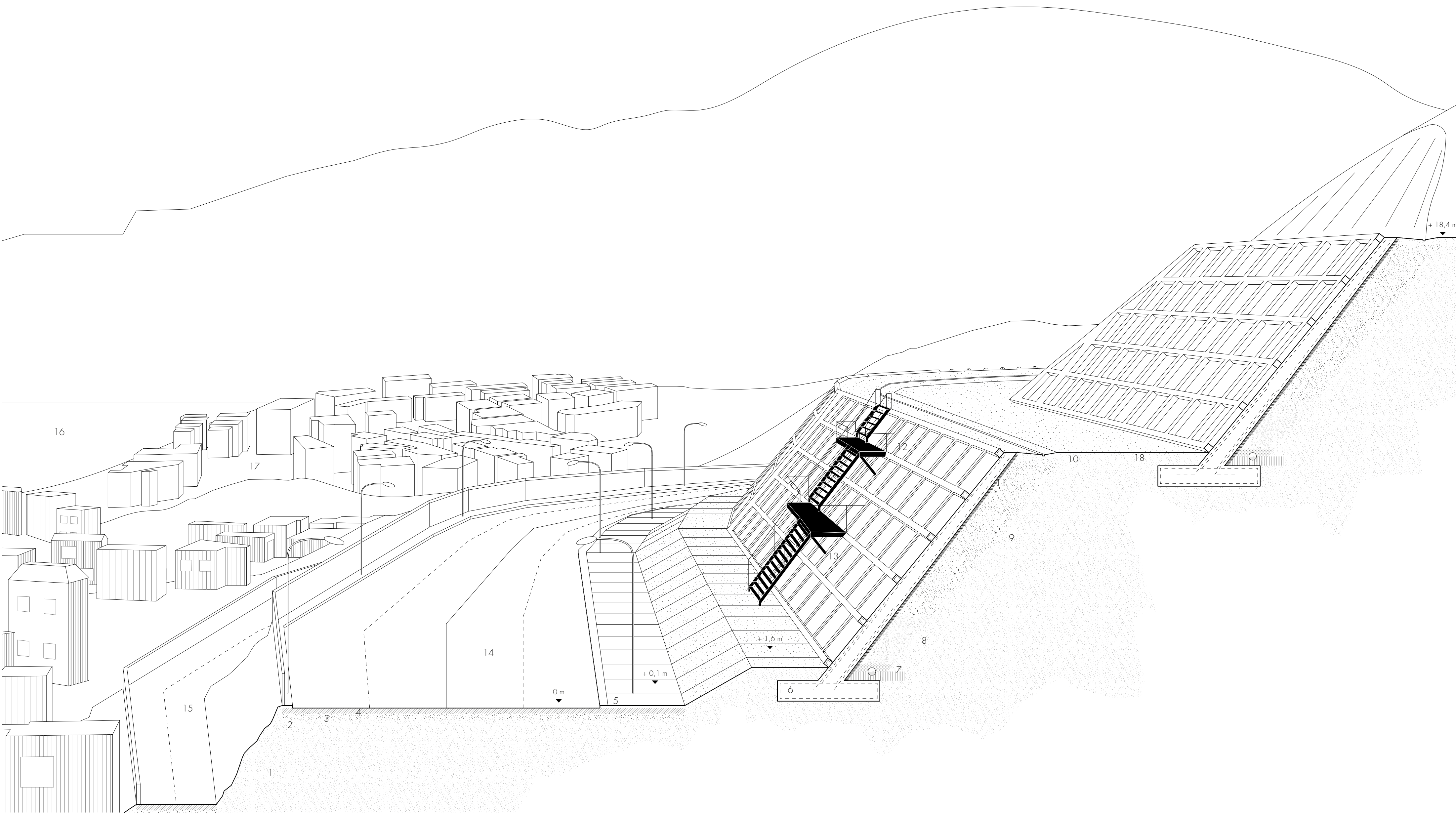
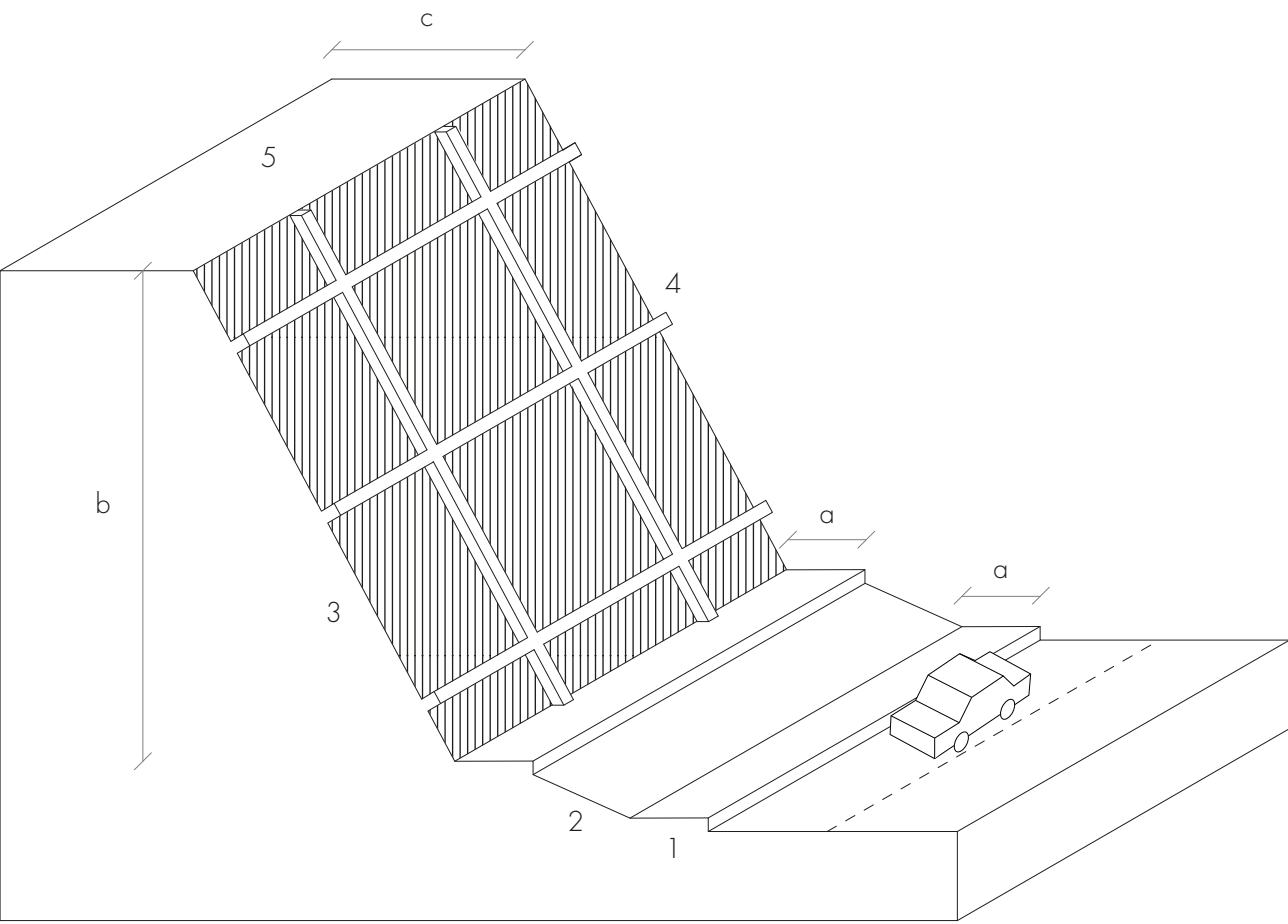


#1 Retaining Wall

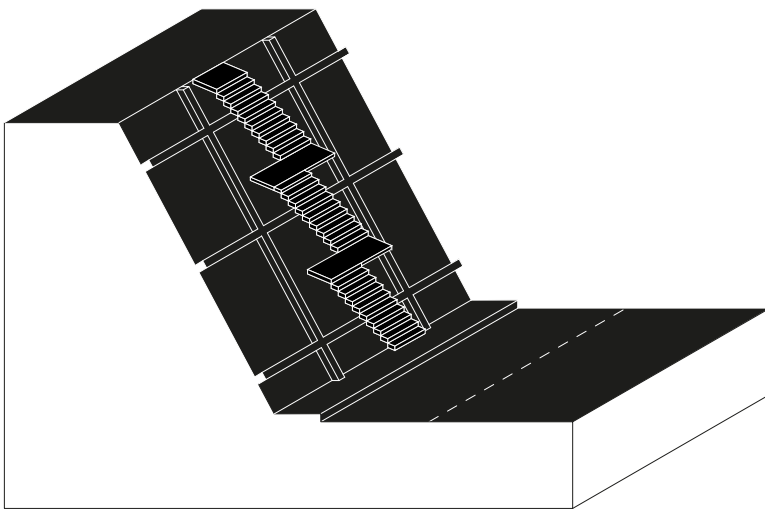
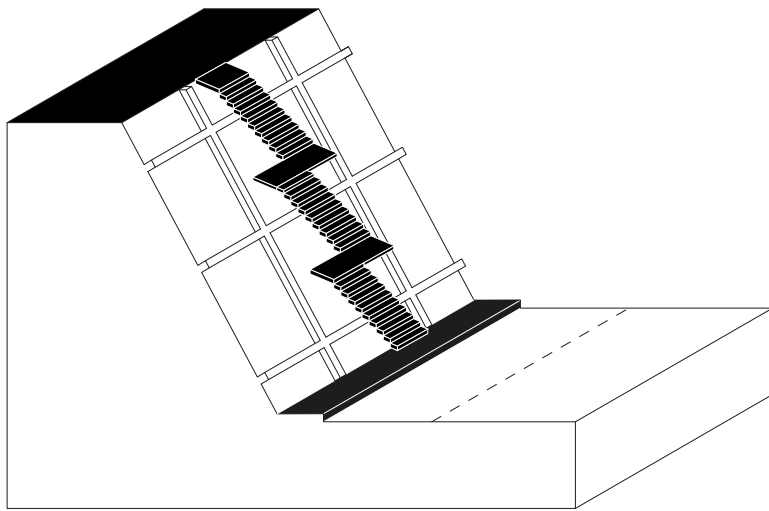
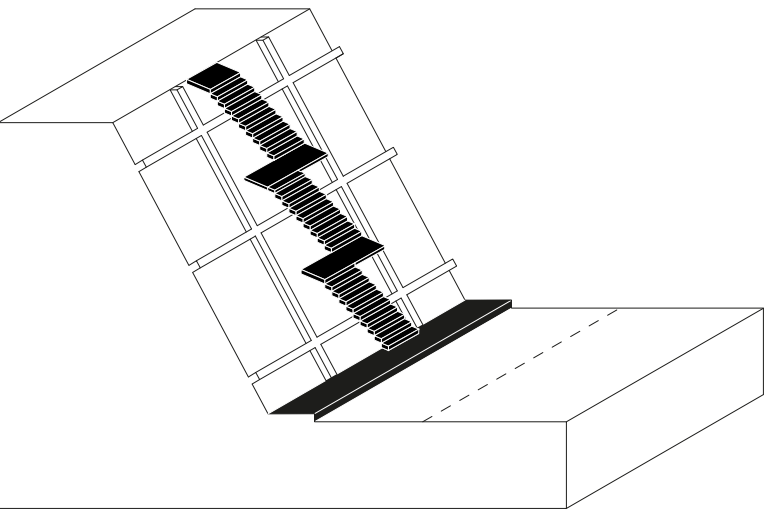


perspective section

1. compacted fill material, 2. draining bituminous conglomerate, 20 cm, 3. open bituminous conglomerate, for binder and basis, 5 cm, 4. close bituminous conglomerate, 5 cm, 5. sidewalk, 6. retaining wall, reinforced concrete, 0,5 - 1 m x 8,5 m, 7. perforated drainage pipe, 8. small drainage material, 9. wide drainage material, 10. drainage channel, 11. protective surface, 12. retaining wall grid, 13. steel stairs, 14. highway, 15. local road, 16. sea, 17. village, 18. embankment.



activating process

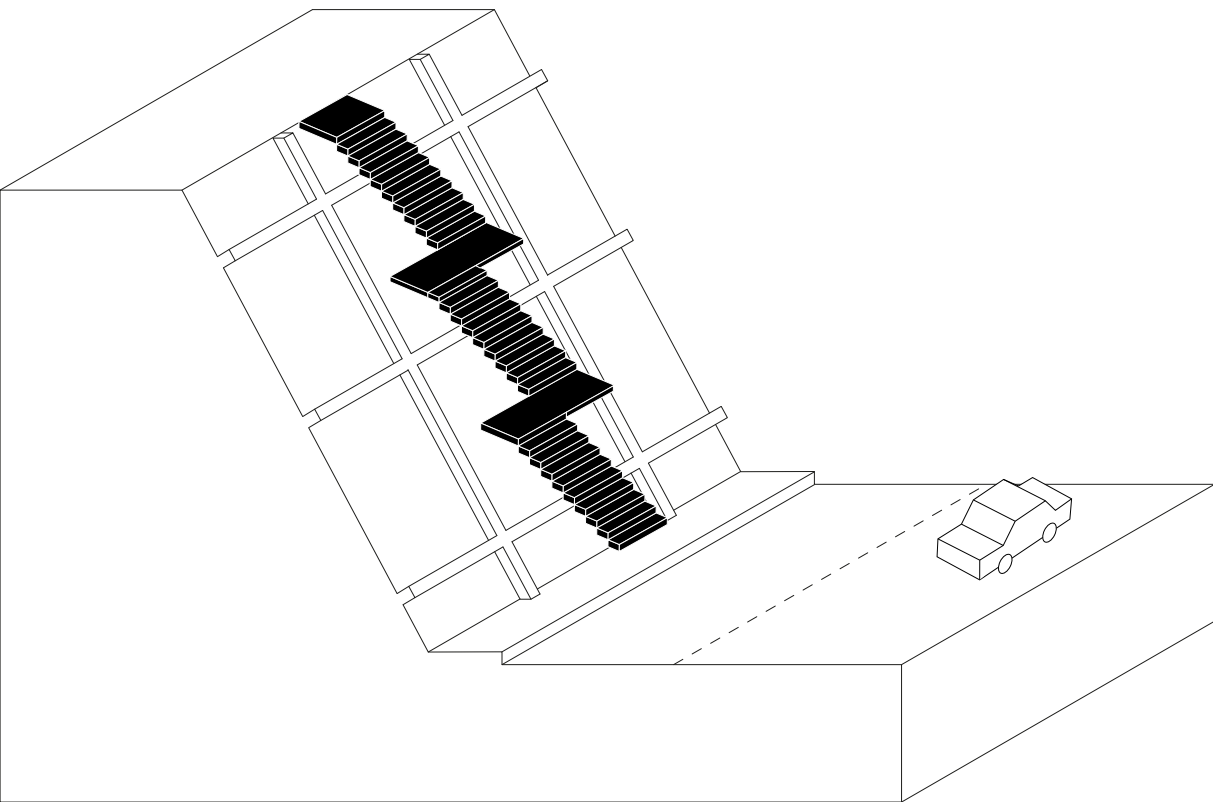


barrier
infrastructure as a barrier, a fracture between city and natural/environmental context

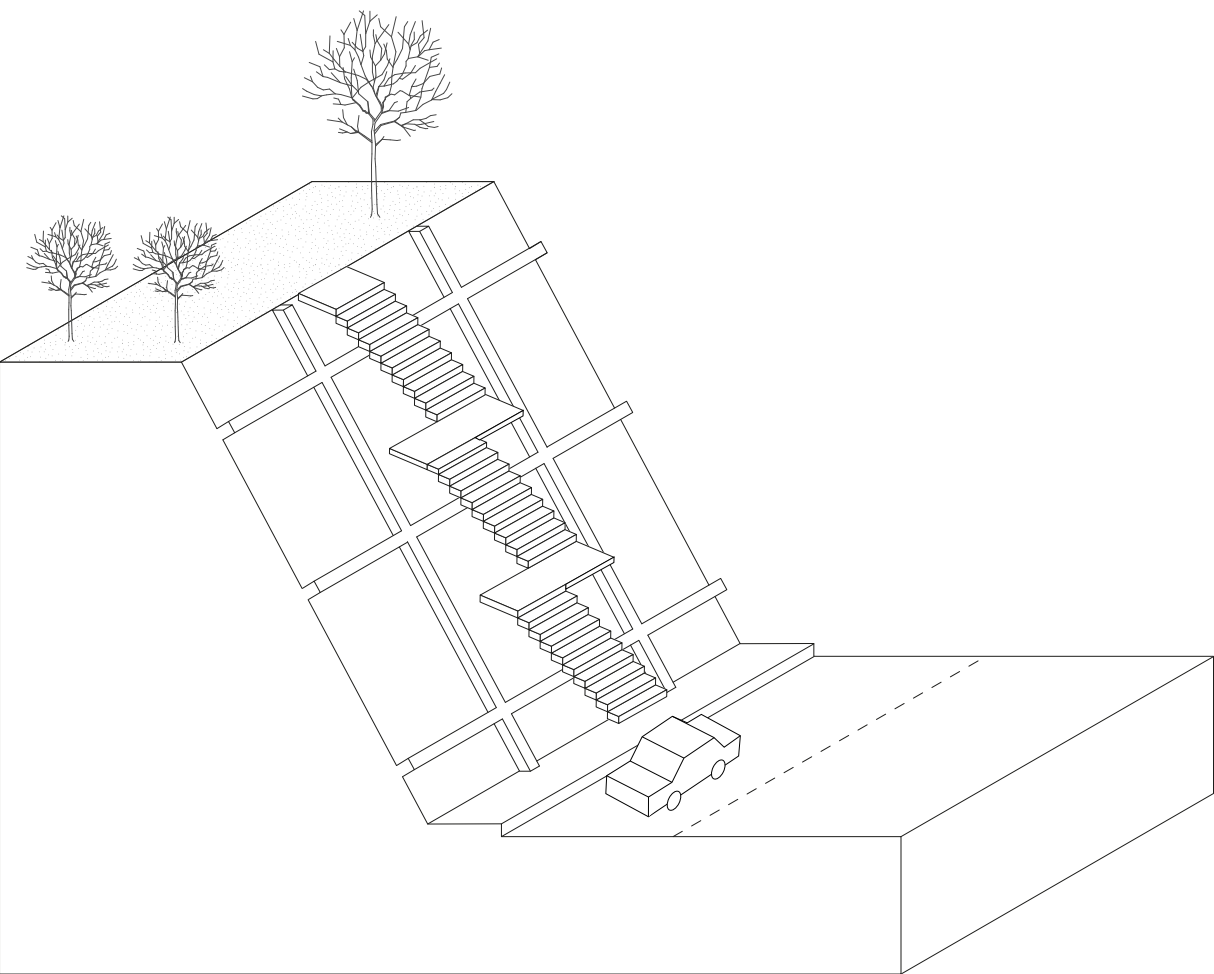
retaining wall average composition
1. sidewalk + horizontal concrete platform, in order to create a separation between the road and the wall, 2. inclined wall, on average height around 1,5 - 2 m, 3. inner part of the wall, inclined reinforced concrete surface, retaining the mountain and creating an embankment, 4. reating wall frames, made by a reinforced concrete grid, with variable section and height, 5. embankment, variable depth, usually the proportion is around half of the lenght of the wall.

average scale proportions
 $8 < a < 14$
 $c = b/2$
 $a = c/3$

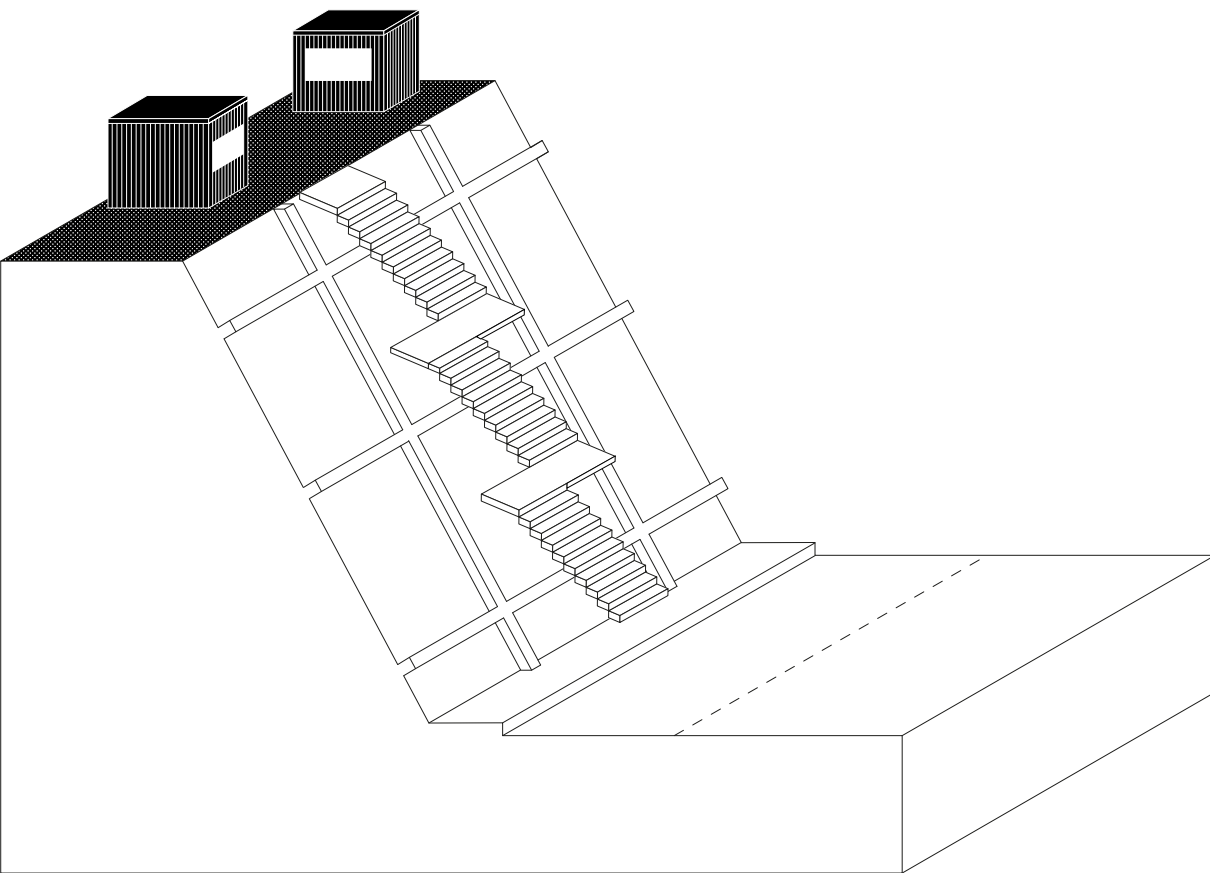
infrastructure as an urban device



A _ staircase



B _ stairs and elevated garden on top



C _ stairs and elevated plaza with attractions on top

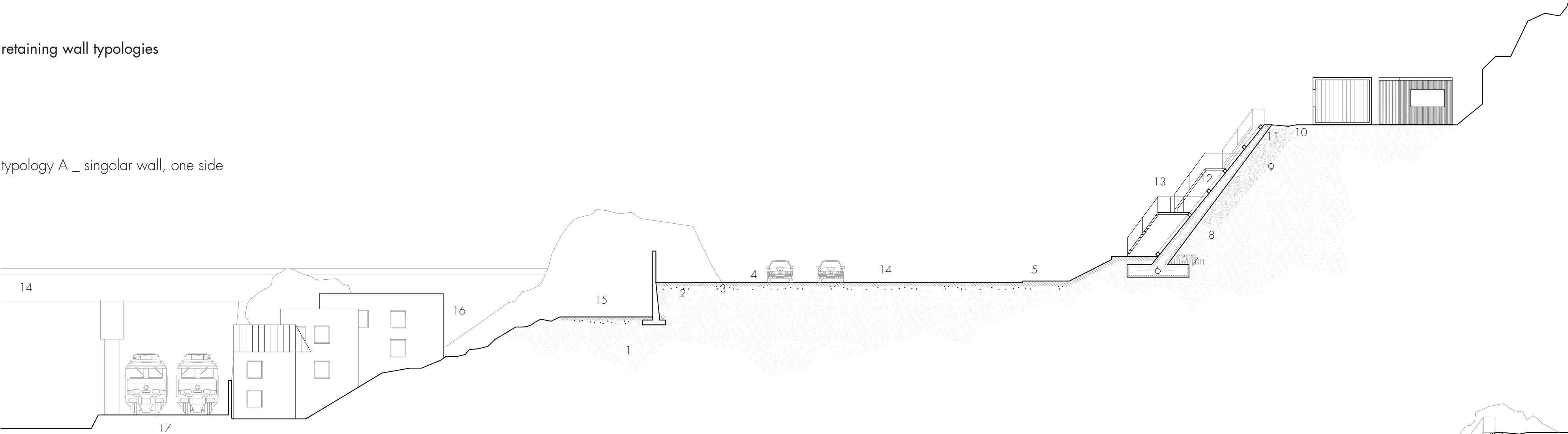
lifted plaza
the embankment on the top of the retaining wall is designed as a lifted plaza, in order to activate also the horizontal surface for either private or public uses, as an urban garden, a place for events, restaurants, or simply a belvedere spot

reaching the top
an outside staircase system hung on the inclined facade allows to reach the top of the wall, through different platforms as belvedere spots

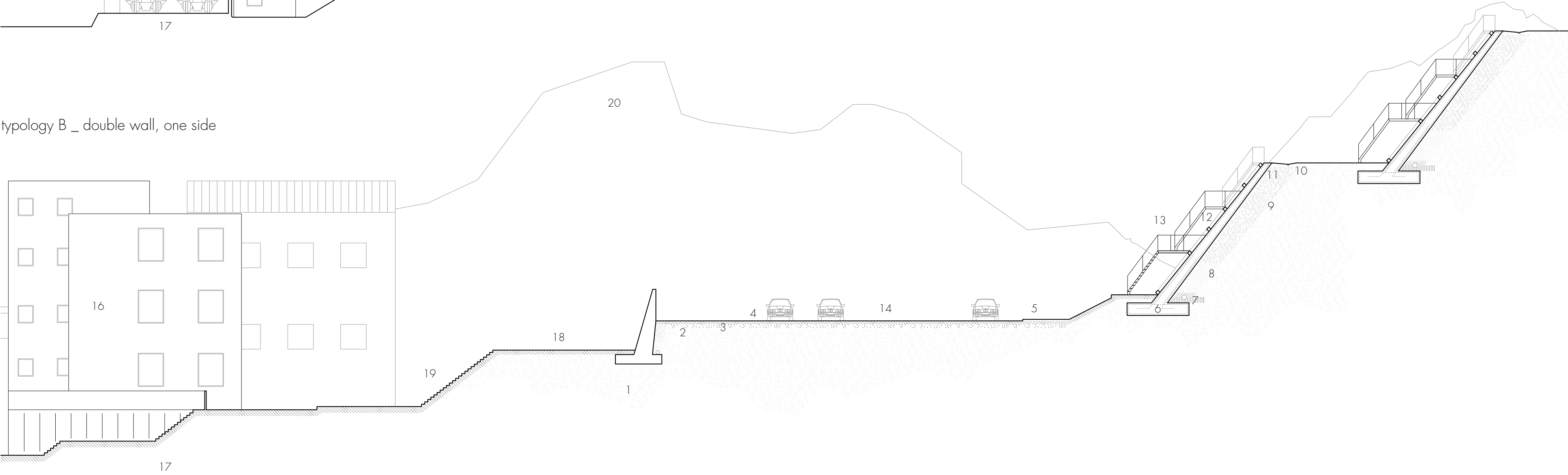
unveiling the infrastructure
through the unveiling of the infrastructure potentiality with the urban device, the space is connected with the urban area and the public surfaces of the city

retaining wall typologies

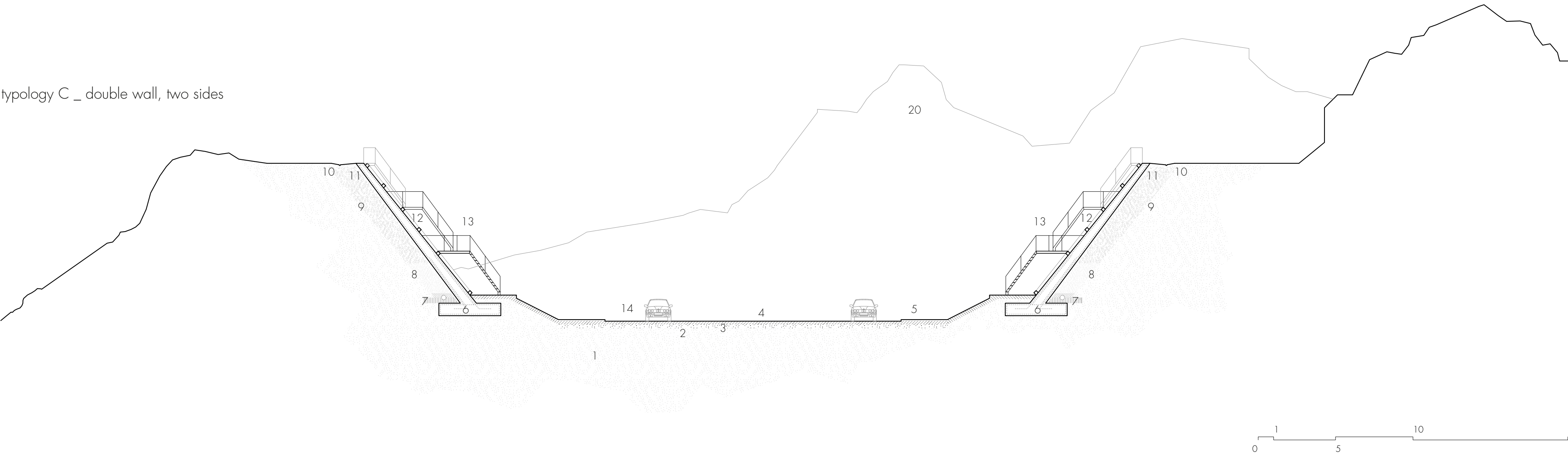
typology A _ singlar wall, one side



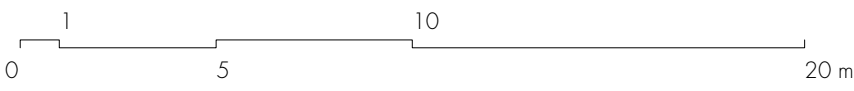
typology B _ double wall, one side



typology C _ double wall, two sides



1. compacted fill material, 2. draining bituminous conglomerate, 20 cm, 3. open bituminous conglomerate, for binder and basis, 5 cm, 4. close bituminous conglomerate, 5 cm, 5. sidewalk, 6. retaining wall, reinforced concrete, 0,5 - 1 m x 8,5 m, 7. perforated drainage pipe, 8. small drainage material, 9. wide drainage material, 10. drainage channel, 11. protective surface, 12. retaining wall grid, 13. steel stairs, 14. highway, 15. local road, 16. village, 17. railway, 18. embankment, 19. concrete stairs, 20. mountain.



technological detail
stairs

