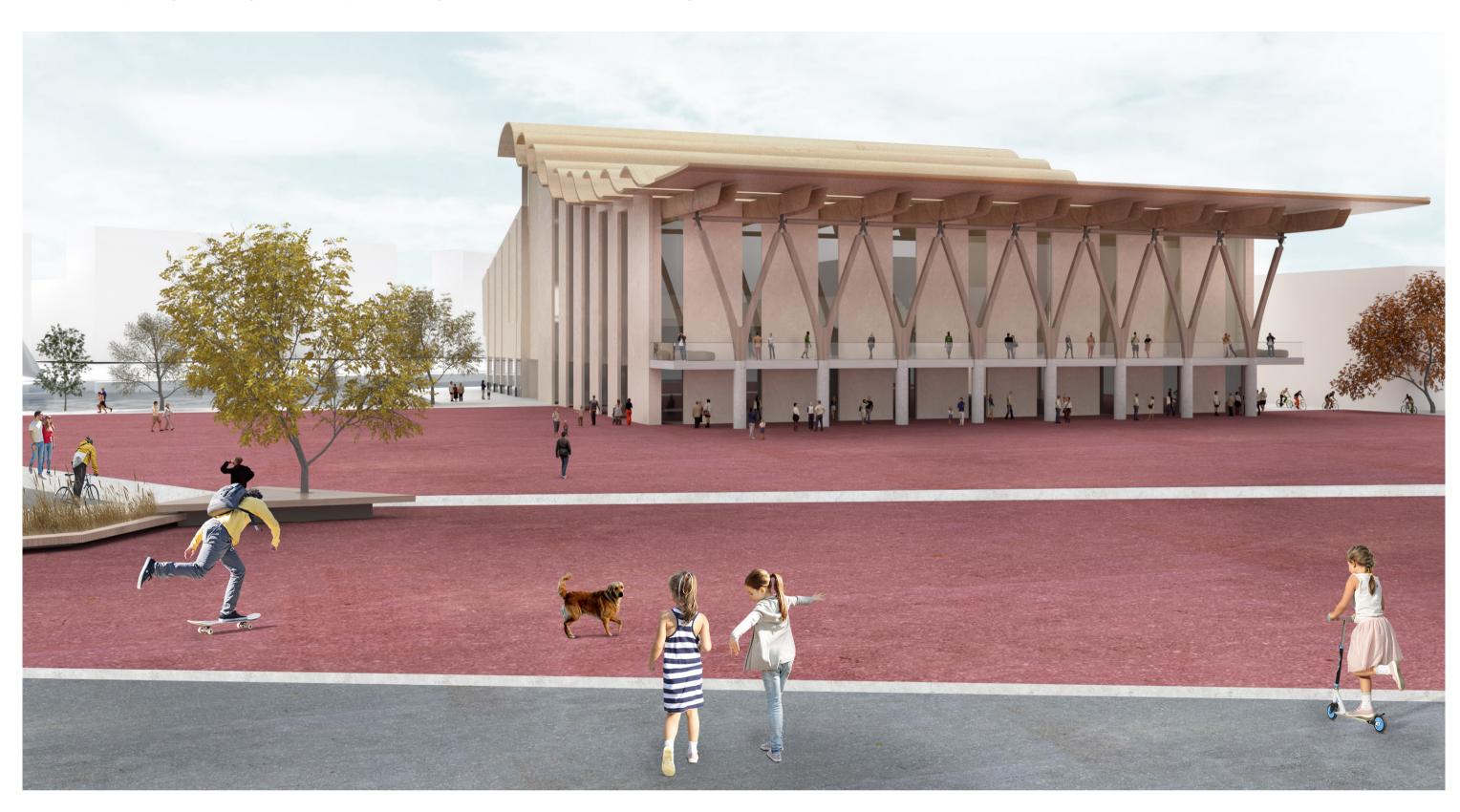
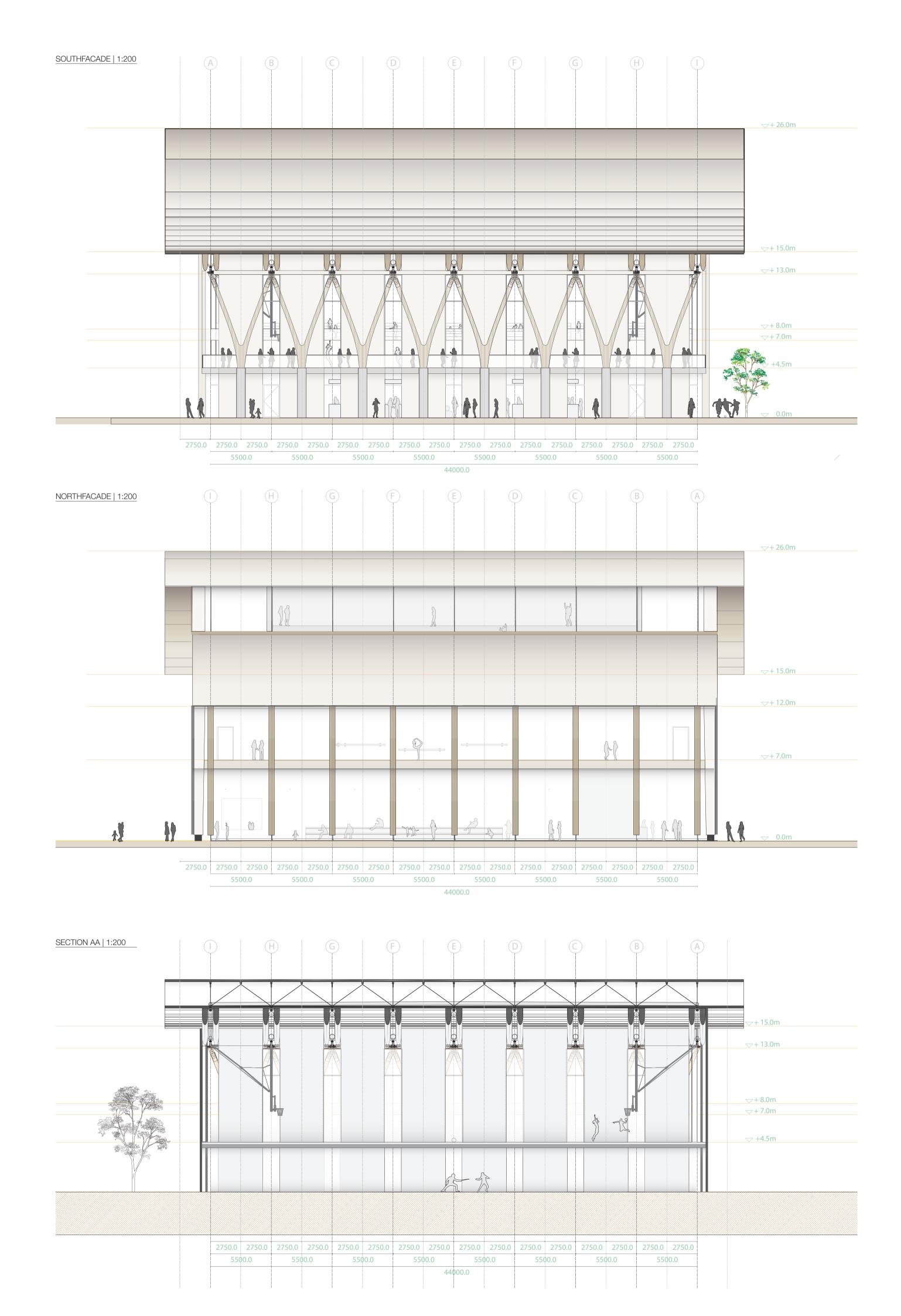
Playing with light | The intecture of daylight and sports

P5 Presentation - 29th of June 2018 - Olly Veugelers

My design gives a wider use of a sports complex. It becomes a new center for urban life at the Marine area of Amsterdam, providing the perfect setting for large sports competitions, events and meetings. With my design I would like to attract a wider audience than just athletes and show how daylight can be an integral part of the design of a sports complex. With my design I want to show you my approach of designing a new sports complex for the Marine area whereby daylight plays a main role in it. In contemporay society where sports plays a central role nowadays I think we need to have as well more creative approaches towards designing sports buildings, instead of designing secluded boxes outside cities. Where churches were often a central meeting place in the past, nowadays I think this is the case for sports buildings. Therefore, I believe that sports buildings may also be beautiful and monumental buildings with pleasing indoor environments. So I want to show with my design that we have to approach the design of sports buildings in a more creative way and also make them beautiful!

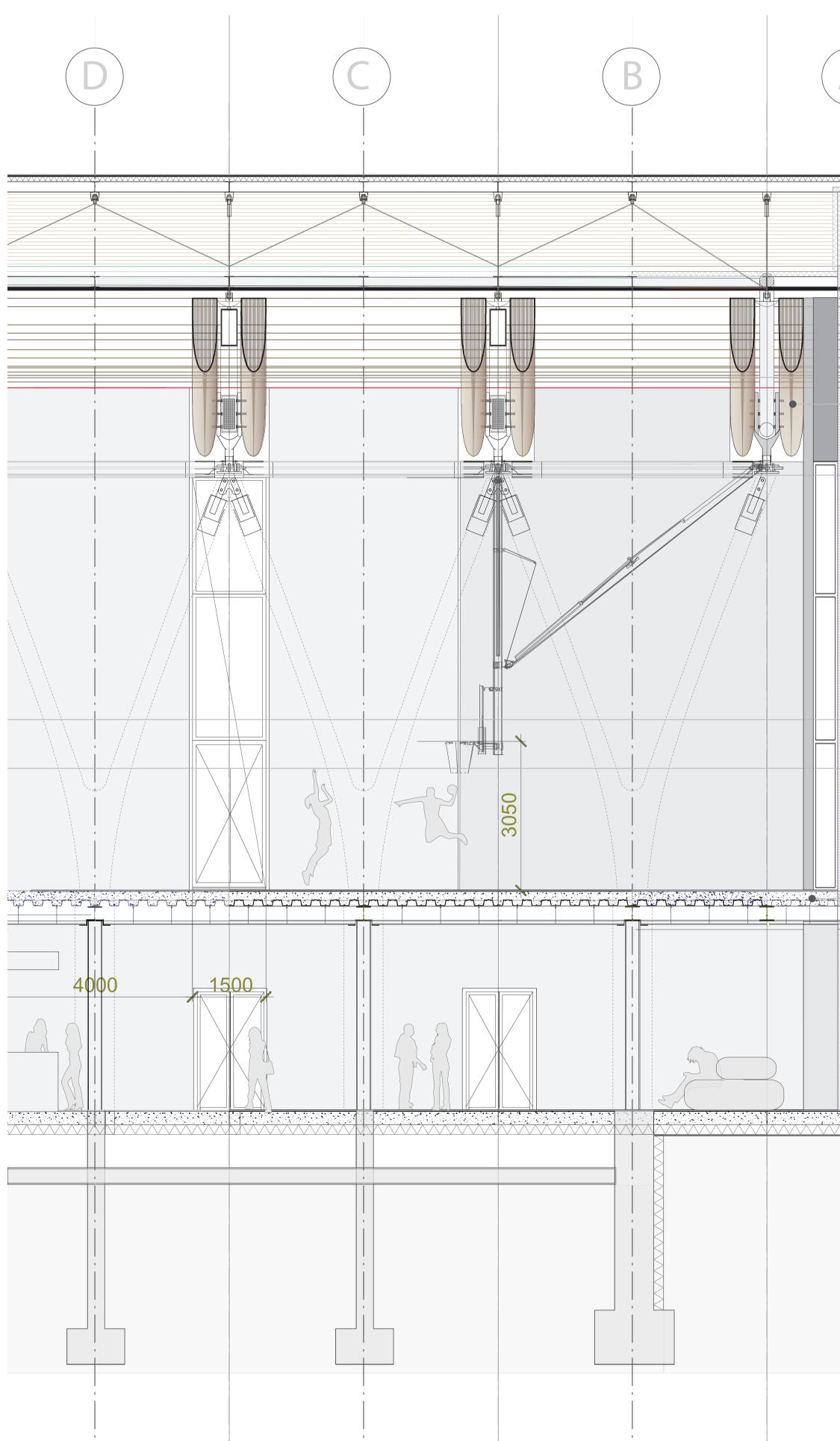






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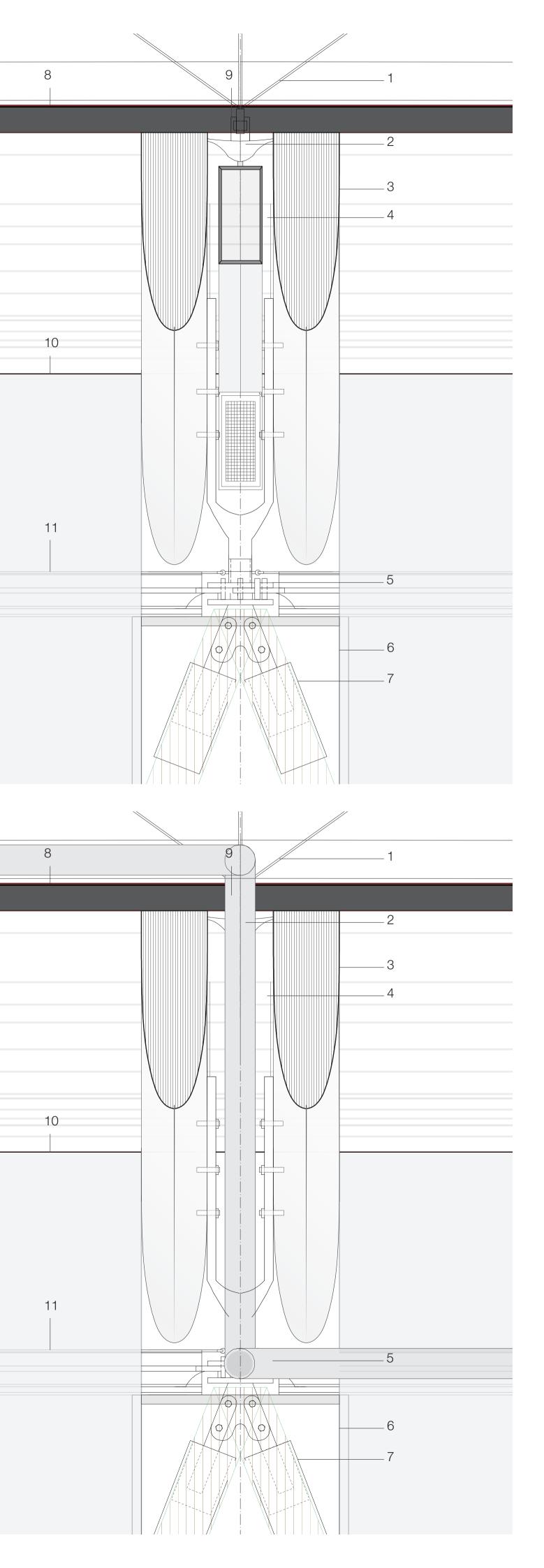
FACADE FRAMGENT | 1:50 +19.0m roof kalzip brown sprayed aluminium profiled sheet compressed insulation blanket vapor barrier layer kalzip E-clip steel profile 40 mm acoustic impact-sound insulation vapor open water retaining foil inner roof; timber slats **+15.0m** structure 2x 1500x500mm cross laminated timber (CLT) beams Ø 460 mm air duct Ø 290 mm waterdrainage pipe **+13.0m** facade limestone 50 mm cavity vapour barrier 60 mm rigid thermal insulation gypsum plasterboard; painted white **+8.0m +7.0m +4.5**m floor structure 5 –8 mm neoprene/polyurethane 95 mm reinforced screed 0.2 mm polythene sheeting 40 mm impact-sound insulation 0.2 mm polythene sheeting 300 mm reinforced concrete concrete; floorheating/-cooling pipes 🖊 + 0.0m

DETAIL AIR DUCTS - 1:20

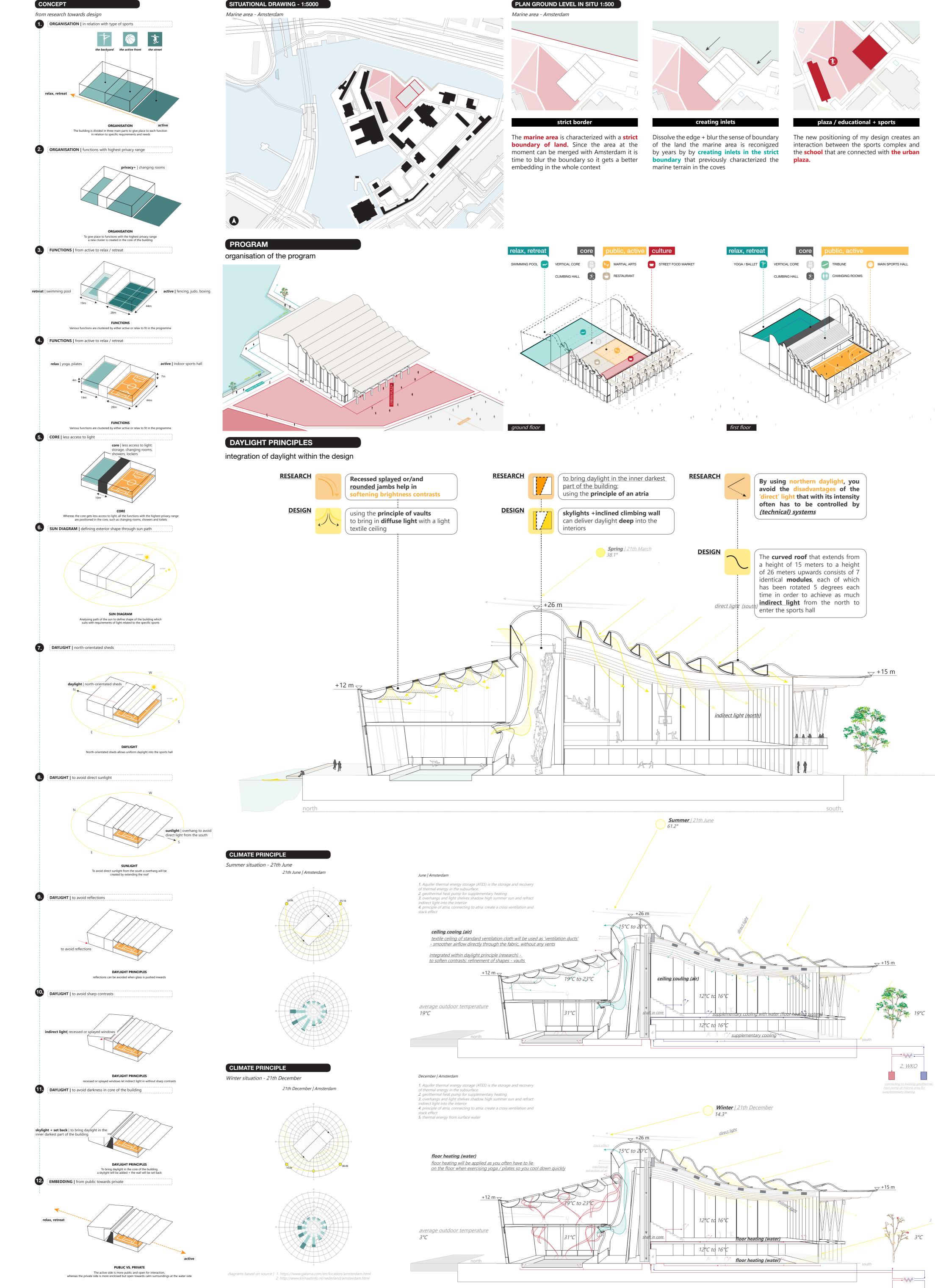
- 1 Ø 15 mm diagonal steel cable
- 2 Ø 175 mm, 60 mm galvanized steel tubes 3 2x 1500x500mm cross laminated timber (CLT) beams
- 4 Ø 460 mm air duct
- 5 \emptyset 290 mm horizontal waterdrainage pipe; descending at an angle of 3° towards vertical pipes at grid lines A and I 6 thermal glazing:
- 2× 10 mm laminated
- safety glass
- + 16 mm cavity + 2× 10 mm laminated
- safety glass 7 Ø 340 mm timber beam 8.90 m long and 250/210 mm
- steel I-sections inserted as node connections inner roof; timber slats
- 9 Ø 290 mm vertical waterdrainage pipe; descending at an angle of 3° towards vertical pipes at grid lines A and I 10 facade elements | limestone
- 11 Ø 340 mm timber beam 4.90 m long and 250/210 mm steel I-sections inserted as node connections

DETAIL WATERDRAINAGE - 1:20

- Ø 15 mm diagonal steel cable Ø 175 mm, 60 mm galvanized steel tubes
- 2x 1500x500mm cross laminated timber (CLT) beams 5 Ø 290 mm horizontal waterdrainage pipe; descending at an angle of 3° towards vertical pipes at grid lines A and I
- 6 thermal glazing:
- 2×10 mm laminated
- safety glass + 16 mm cavity
- + 2× 10 mm laminated
- safety glass Ø 340 mm timber beam 8.90 m long and 250/210 mm steel I-sections inserted as node connections
- 8 inner roof; timber slats Ø 290 mm vertical waterdrainage pipe; descending at an angle of 3° towards vertical pipes at grid lines A and I
- 10 facade elements | limestone
- 11 Ø 340 mm timber beam 4.90 m long and 250/210 mm steel I-sections inserted as node connections



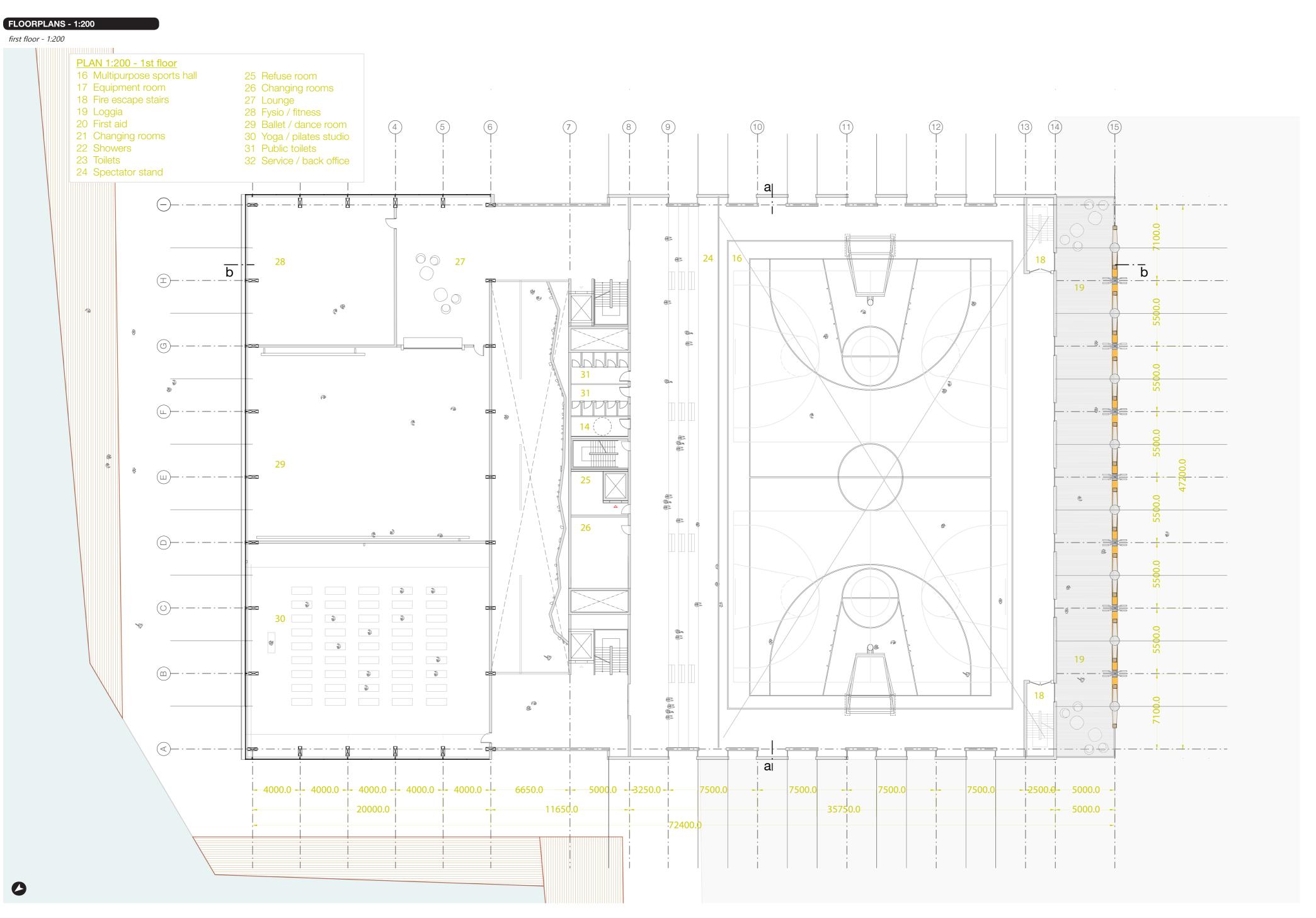
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<u>2. WKO</u>

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FLOORPLANS - 1:200

ground floor - 1:200

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