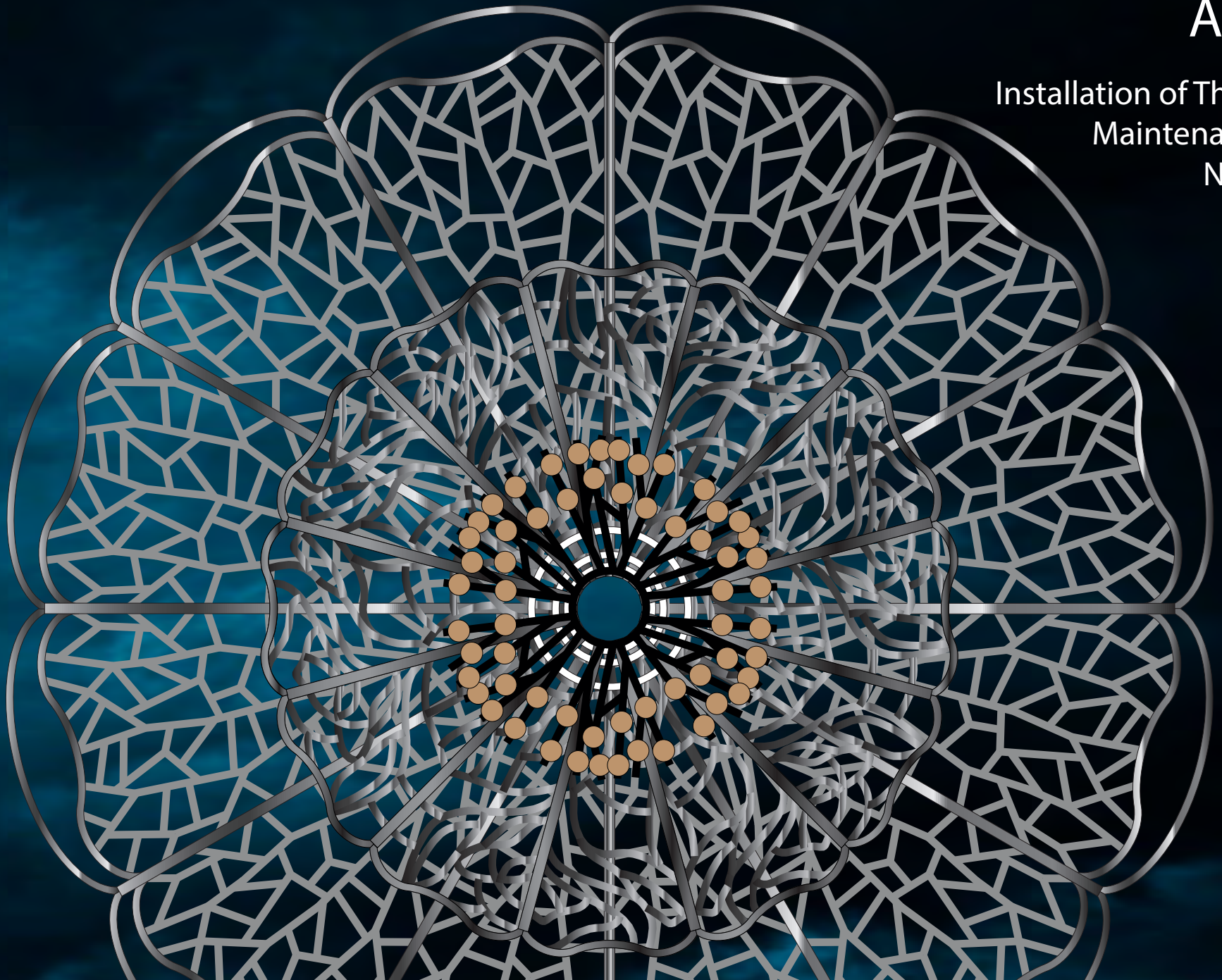


THE SEAM PUBLIC ART
Application 2

Installation of Three New Sculptures
Maintenance & Management
November 18th 2024

Maintenance & Management

Three 'Yorkshire Rose' Super Structures are proposed for SEAM constructed in mild steel with protective decorative finishes with the central one 15 metres tall and the outer two 12 metres tail. The 'Yorkshire Rose' structure would create an organic flower bloom canopy with patterned steelwork that mirrors various weave threads, coal mining seams, the veins of white rose petals and stamens. The structures will be lit up during hours of darkness with the ability to interact with the artwork/lighting. An element of playful digital connectivity and communication between the three structures is desired and a programme of light projection and music would to stages regularly or for specific events and times of year.

The three Yorkshire Rose Sculptures would be fabricated in mild steel with protective decorative finishes. The specification for the welds to be BS-1090 EXC2 and the finishes are to ISO12944 standard code C2 as follows:

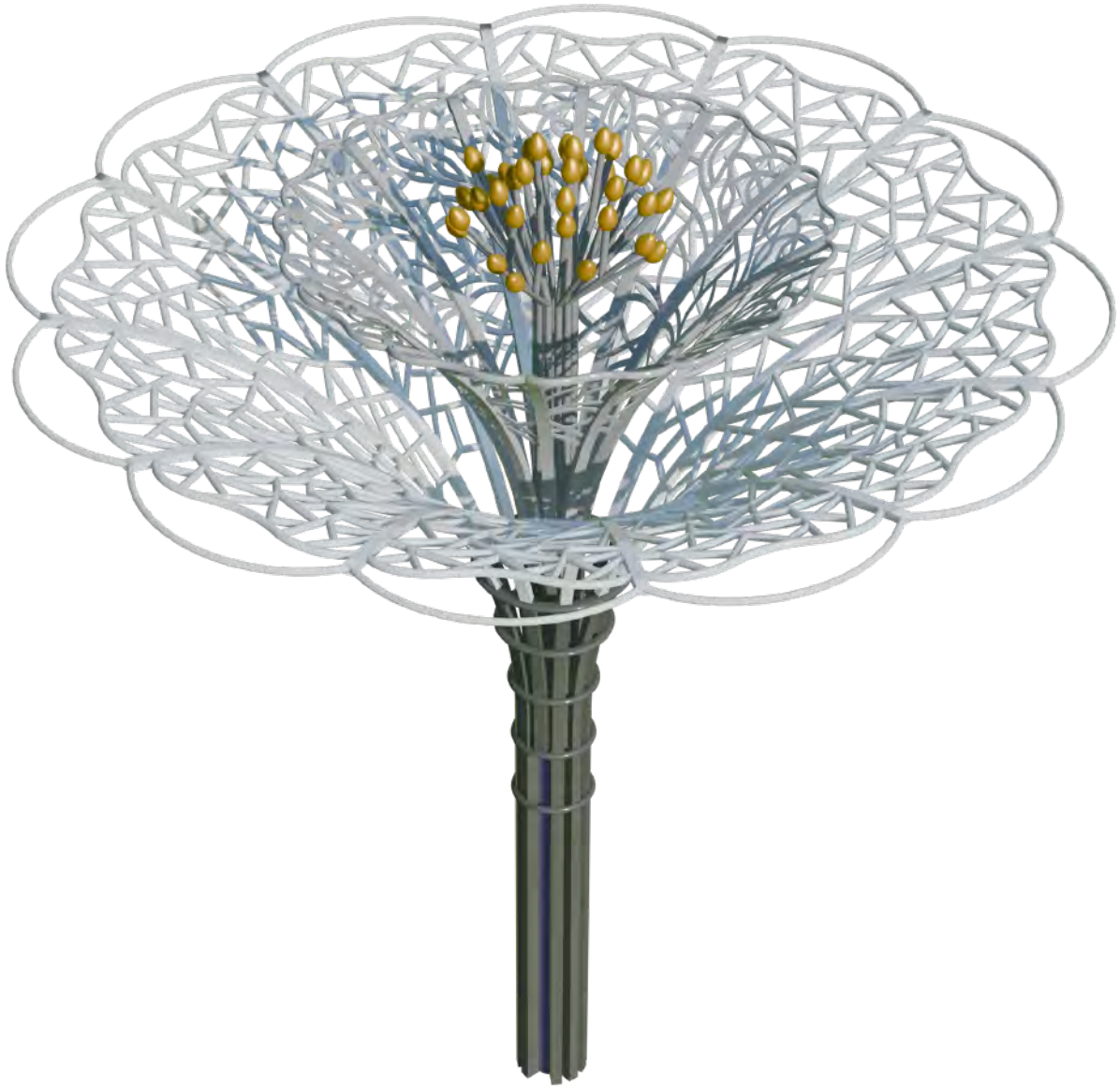
Hot zinc spray protection coating - conforming with the European Standard EN 22063 : 1993 as the status of a British Standard. Maintenance life is very long (30 years or more) which is equal to the galvanise process.

Primer - a two component aluminium epoxy sealer/primer for aluminium and zinc metal spray. Approved to Highways Agency (item 159), approved to Railtrack RT 98 (item 7.1.1) and EPA compliant as a sealer coat.

Decorative topcoat - a two component, recoatable, aliphatic polyurethane mid-sheen finish. Conforms to BS 5493, approved to Highways Agency (item 169) and Railtrack RT 98 (item 7.3.1).

See documents:
2No. Structural Reports for the 15mtr tall & 12mtr tall sculptures.
Jotun Paint Coating Data Sheet
Yorkshire Rose Drawings 1A, 2A & 3A
Yorkshire Rose 15m Sculpture - Fabrication Stages 1, 2 & 3
Yorkshire Rose 12m Sculpture - Fabrication Stages 1, 2 & 3

The Structure to be installed onto a pre cast concrete foundation with underground ducting allowed for the electrical services for lighting.



Maintenance & Management

The three 'Yorkshire Rose' Super Structures are will be designed, fabricated, and installed to be robust sculptures that have a life expectancy of the structures to be 30 years minimum. All works and materials will comply with BS 8000-0:2014. We would commit to annual visits to the site over a 60-month period (one per year over a five-year period) for the structural engineer and artist to inspect the three structures so that they can be maintained to the required standard.

The sculptures will be designed to comply with the above, therefore any future costs associated with the structures should be minimal.

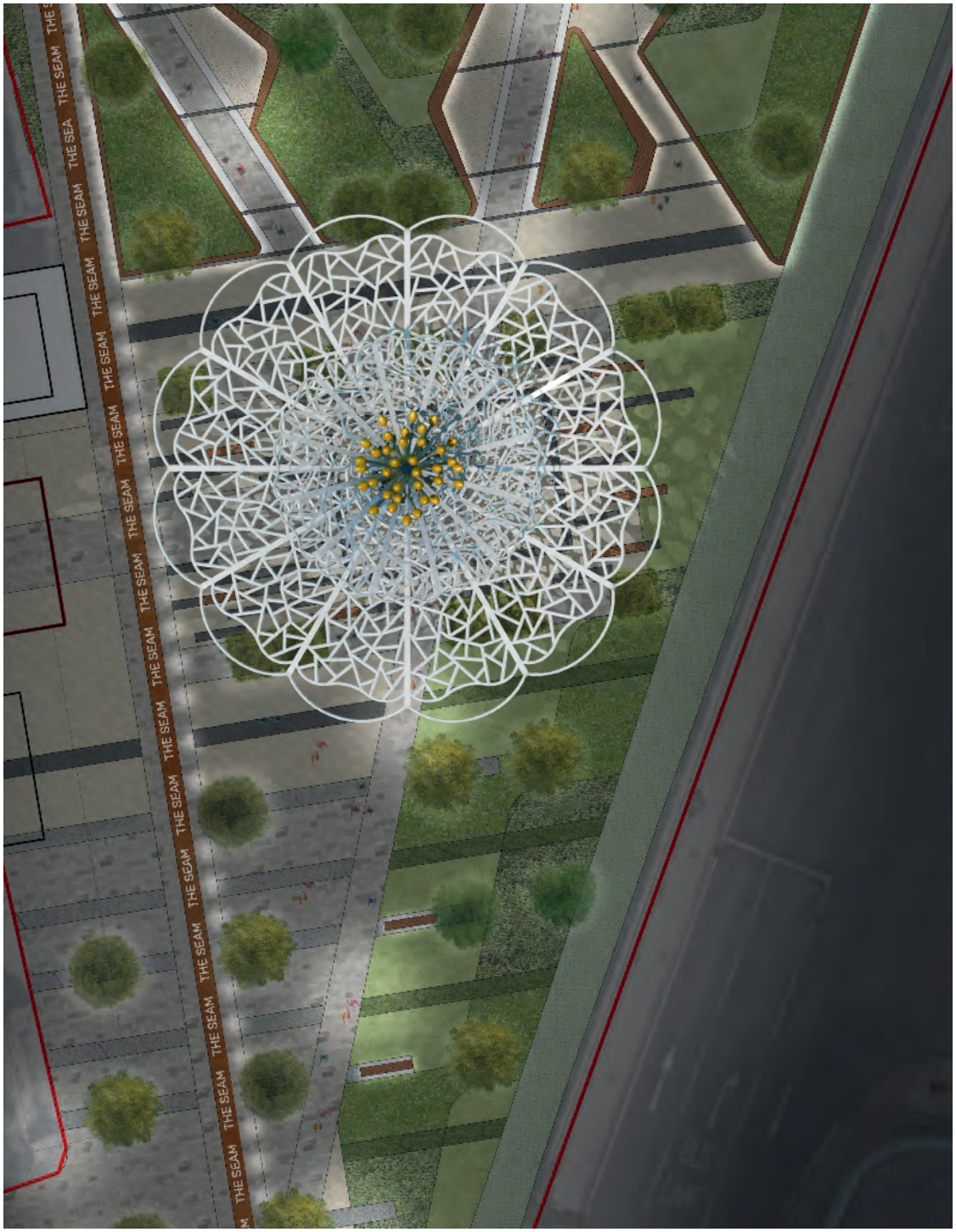
The structures at each visit will be checked for defects and cleaning requirements. Access will be via height on a cherrypicker. The structures will be fabricated in mild steel with protective coatings and durable finishes to ISO12944 standard code C2. The structures will be mainly self-cleaning with little to no extra cleaning required. However, if some cleaning is needed we recommend to carefully remove any loose surface deposits with a wet sponge. Use a soft brush (non-abrasive) and a dilute solution of a mild detergent, i.e. pH-neutral liquid hand dishwashing detergent in warm water (DO NOT use solvents) to remove dust, salt and other deposits. Ensuring surfaces are thoroughly rinsed with clean fresh water after maintenance to remove all residues.

The structures are designed in such a way to prevent reaching up and climbing of the structure. Head/limb/finger traps have been designed out where structure could be accessed by public.

CDM to be considered from concept design stage including fabrication, transport to site, construction, maintenance/repair and end of life dismantling.

On the maintenance visits, we will inspect and support the council staff in the upkeep of the sculptures. Alongside the above 5-year inspection visits an annual maintenance programme to be implemented. A maintenance plan and health and safety file shall be provided at, or before, practical completion. All Files shall be presented in A4 size binders, properly indexed with a full list of contents. CTS will be responsible for the collation of the various designers', documentation and drawings into a comprehensive, concise document.

The council's staff to be instructed in the use, operation and maintenance of the lighting works. This will normally be conducted after Practical Completion at a date to suit the requirements of the Employer.



Sustainability

Circling the Square Ltd has an Environmental Policy that covers all aspects of our operations - from good housekeeping measures, from recycling to working with sustainable products. All our steelwork is sustainably sourced, because once it is made, steel can be used forever. Steel is recycled an infinite number of times and be used with no downgrading in quality. We track steel from its source and is CE marked.

The non-renewable resources used to make steel, like minerals and fossil fuels, are not wasted because the steel will be used forever. Using steel, mild steel or stainless steel, in the construction of the vertical planters will be environmentally friendly. Once steel is produced, it's lifecycle is potentially endless. If it is recovered after each product's life cycle, it is a permanent resource in society.

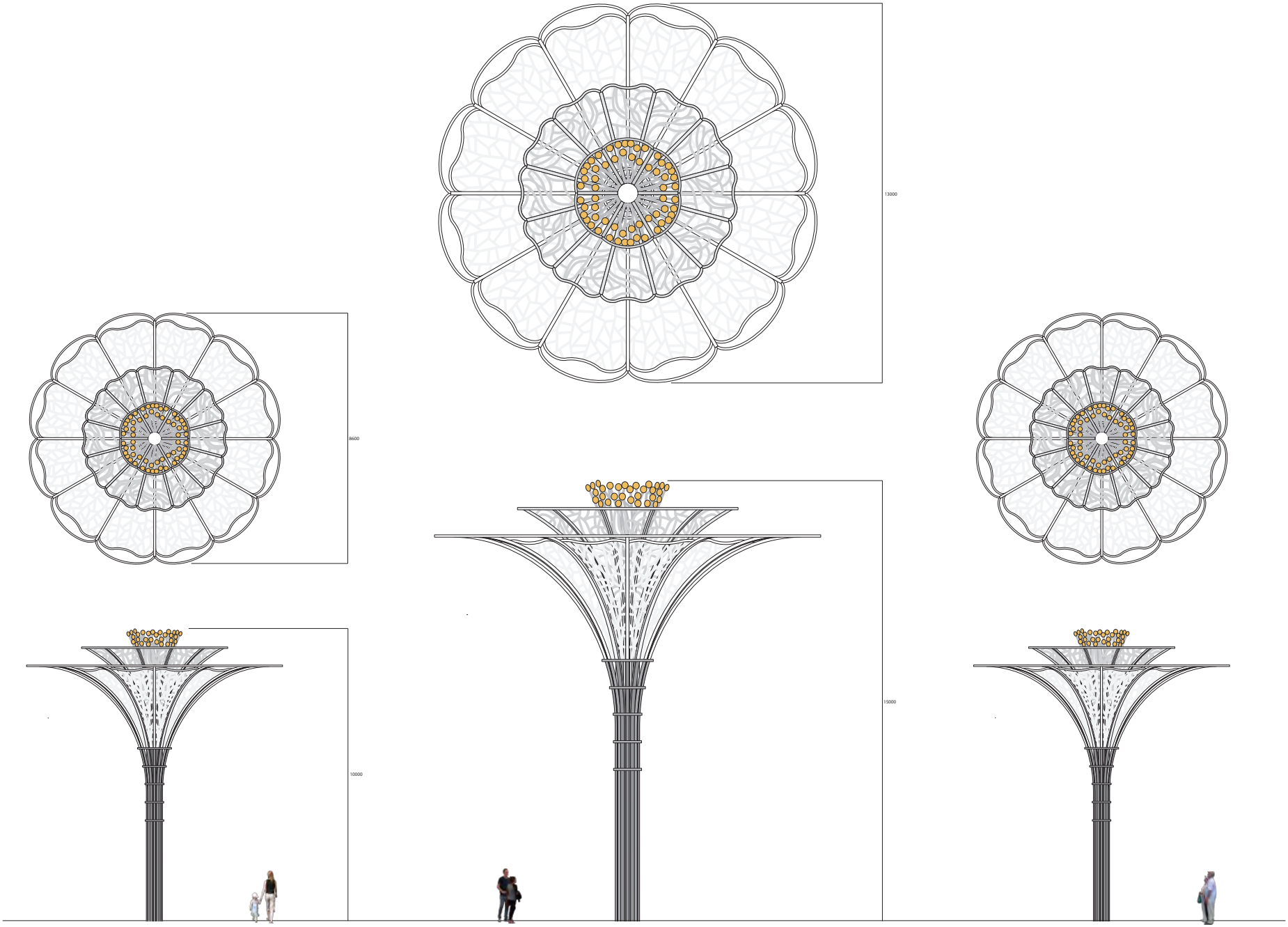
Steel is 100% recyclable and is easily recovered by magnetic separation and is the most recycled industrial material in the world, with over 500 metric tonnes recycled annually. Steel is amongst some of the materials that are certified under the Green Buildings Rating System. Such as International Green Construction Code (IgCC) and USGBC's LEED (Leadership in Energy and Environmental Design) sustainable certifications steel possesses. Steel is as highly material efficient and recyclable. CTS can further demonstrate during the concept design stage the environmental impacts over the steel structure of the vertical planters life cycle and help to extend their life span through design for disassembly and reuse.

Arguably, steel is the most sustainable metal. This is because steel is the most recycled material in the world, it is not consumed because once made and steel will be used again and again. Steel is the only truly cradle-to-cradle recycled material.

CDM to be considered from concept design stage including fabrication, transport to site, construction, maintenance, repair and end of life dismantling.

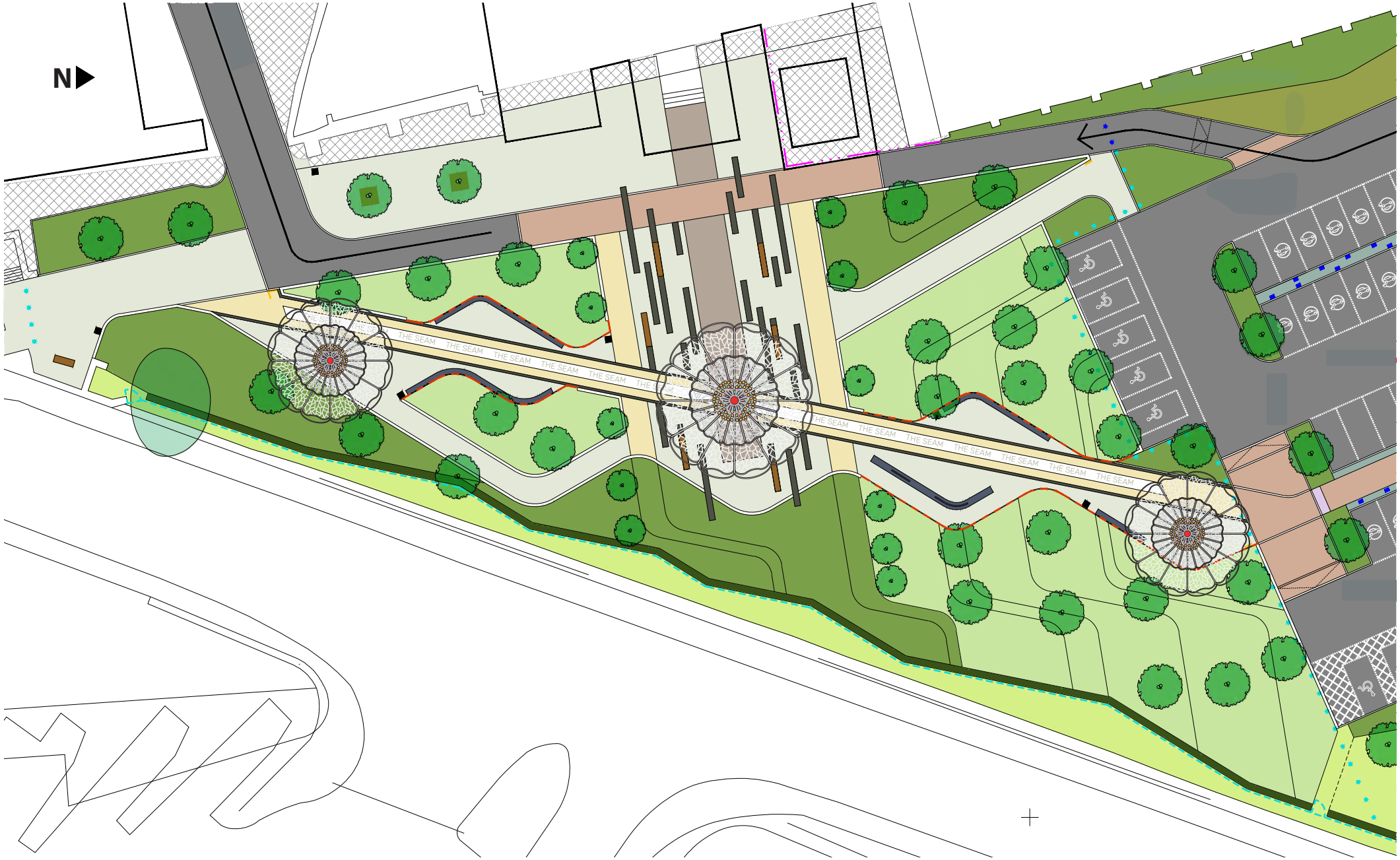
The Yorkshire Rose Sculptures will support the greening initiative of the new Urban Park and studies show that city buildings increase in value the closer they are to green spaces and perhaps even more valuable is the enhanced corporate image that is gained by green infrastructure. With environmental concerns becoming increasingly more prominent in our personal and professional lives, the inclusion of the plant themed sculptures in the SEAM development promotes a commitment to sustainability.

Yorkshire Rose - SEAM Super Structures - Elevation Drawing



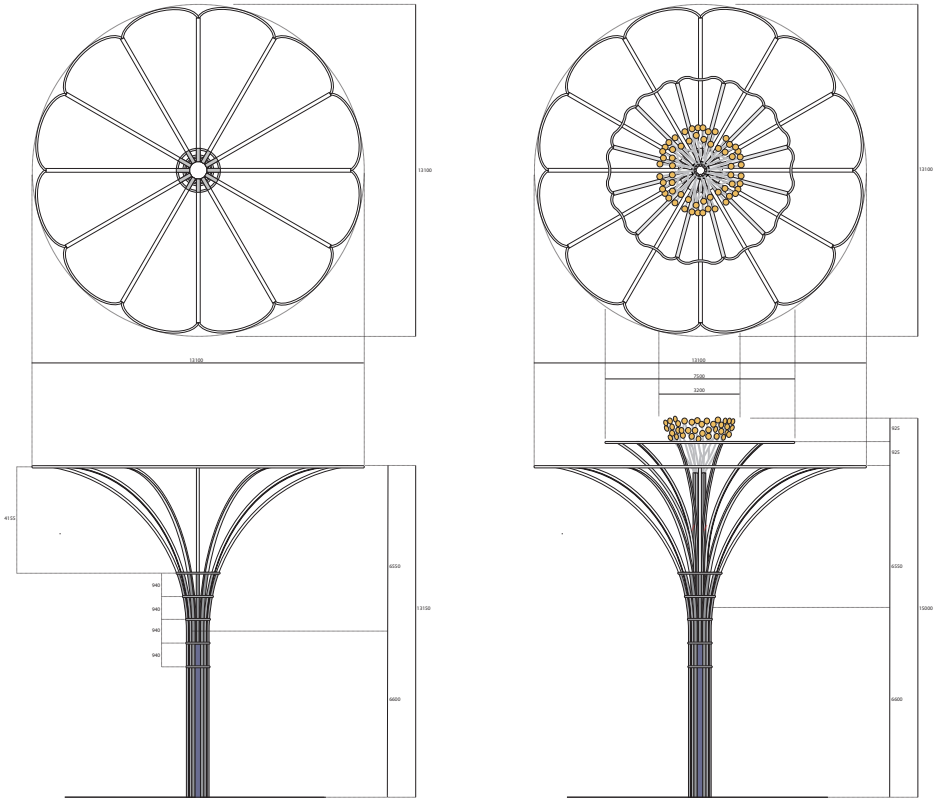
Three Super Structures are proposed for SEAM constructed in mild steel with protective decorative finishes with the central one 15 metres tall and the outer two 12 metres tail. The 'Yorkshire Rose' structure would create an organic flower bloom canopy with patterned steelwork that mirrors various weave threads, coal mining seams, the veins of white rose petals and stamens.

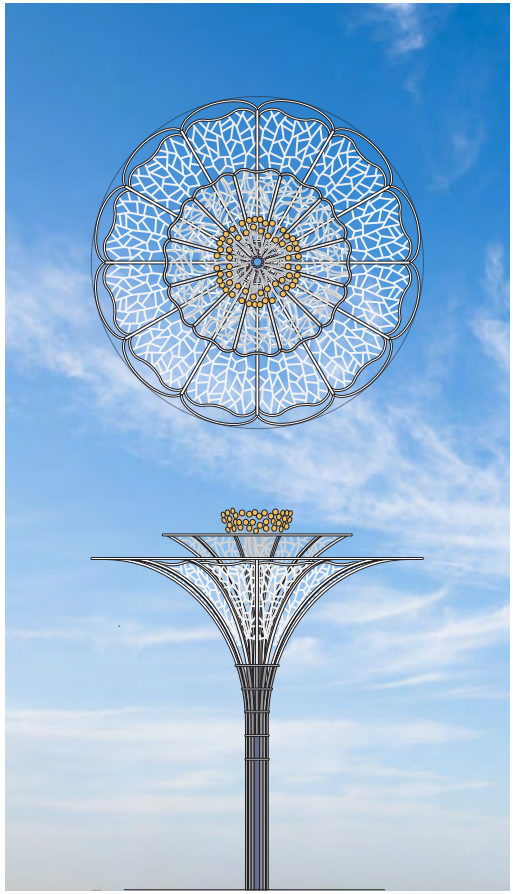
Yorkshire Rose - SEAM Super Structures Location Plan

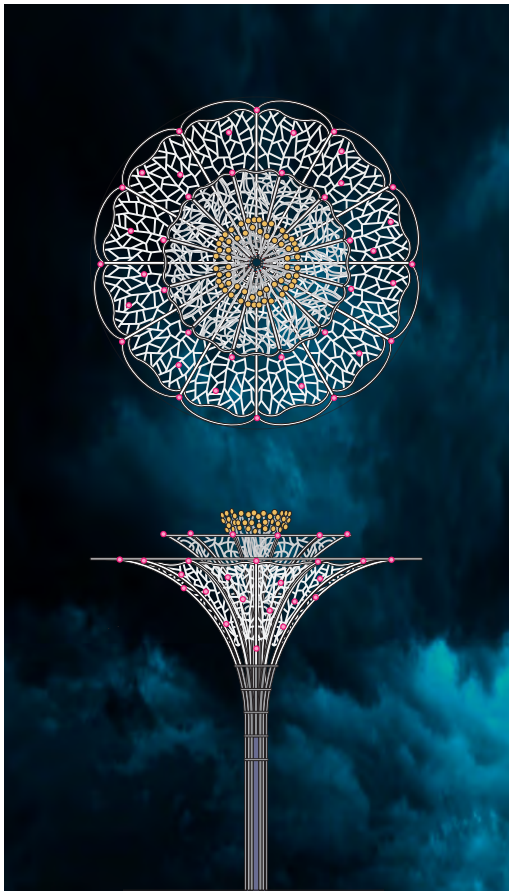


Three Super Structures are proposed for SEAM constructed in mild steel with protective decorative finishes with the central one 15 metres tall and the outer two 12 metres tail.

Yorkshire Rose - SEAM Super Structures - Staged Construction Drawings







Three Super Structures are proposed for SEAM constructed in mild steel with protective decorative finishes with one 15 metres tall and two 12 metres. The 'Yorkshire Rose' structure would create an organic flower bloom canopy with patterned steelwork that mirrors various weave threads, coal mining seams, the veins of white rose petals and stamens. The above shows the proposed structure at four stages of construction; the vertical supports, the three canopy layers of the white rose and the structure illuminated.

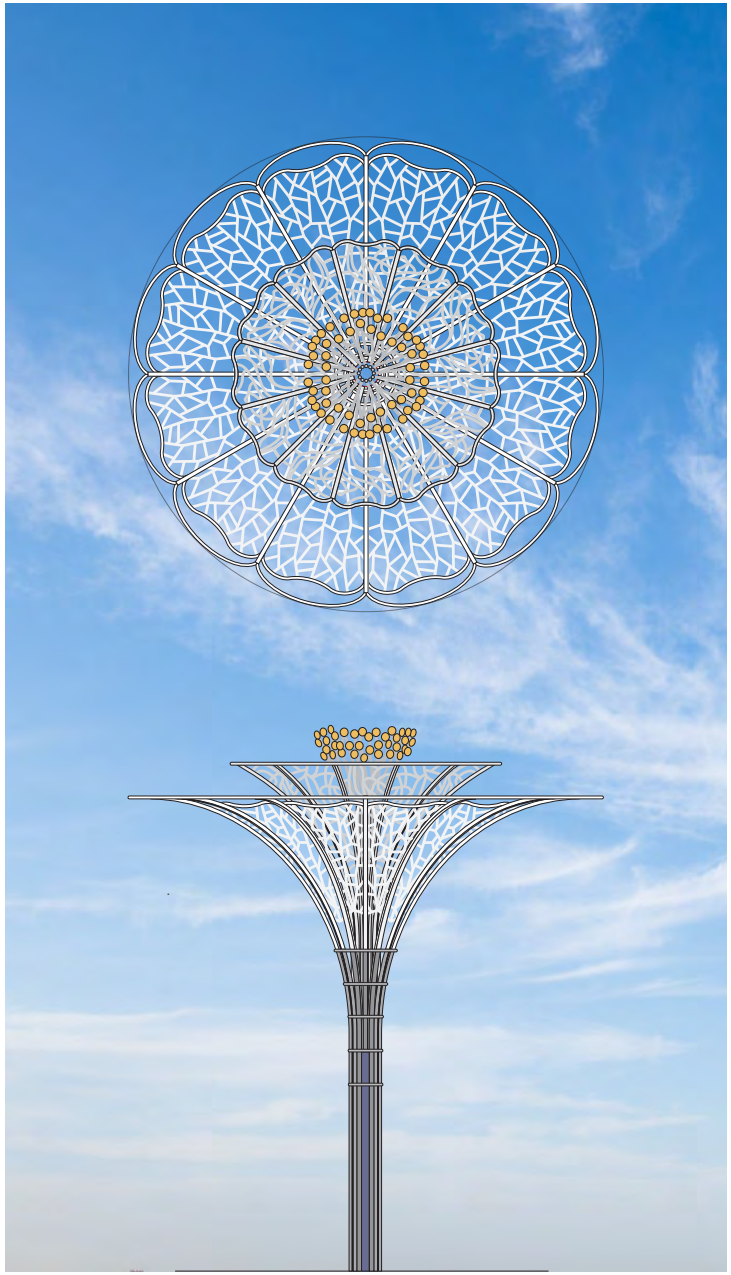
Yorkshire Rose - SEAM Super Structures

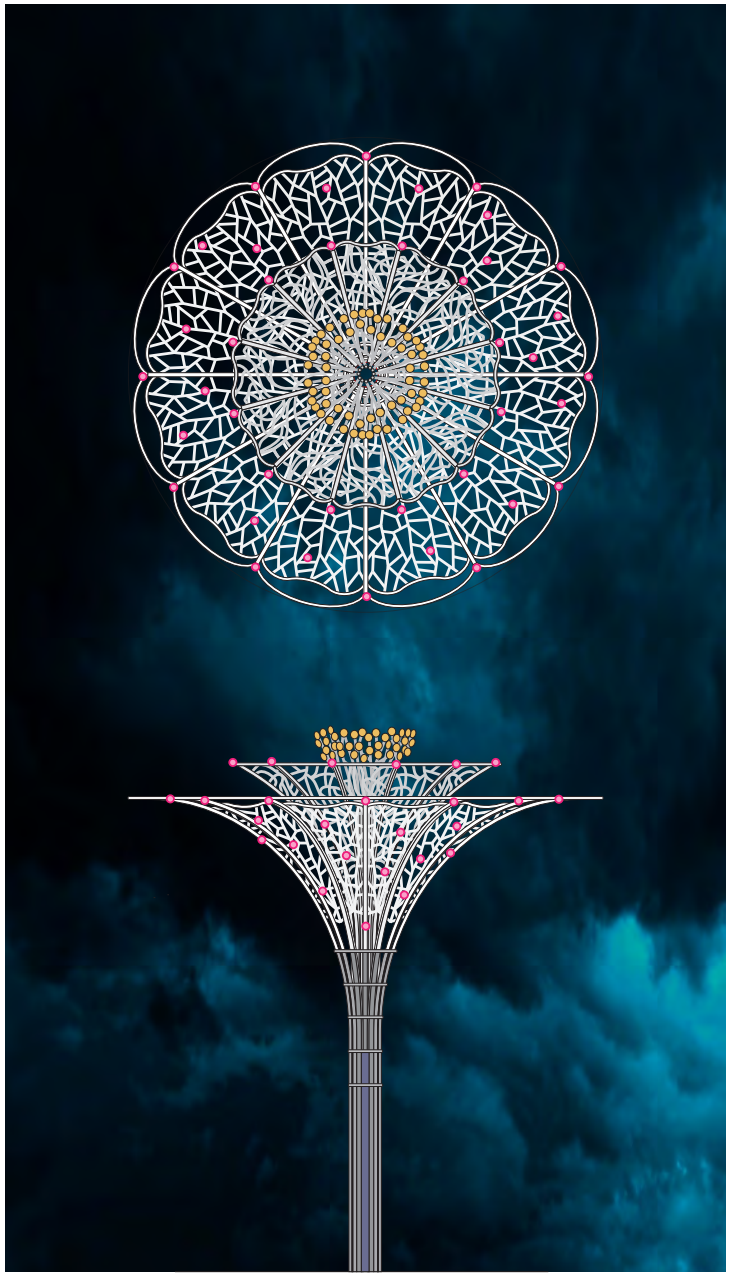
Super Structures constructed in mild steel with protective decorative finishes with one 15 metres tall and two 12 metres. The 'Yorkshire Rose' structure would create an organic flower bloom canopy with patterned steelwork that mirrors various weave threads, coal mining seams, the veins of white rose petals and stamens.

12No rolled vertical supports each in 150mm x 100mm RHS on the 15 metres sculpture & 120 x 80mm RHS on the 12 metres sculpture, all radiate upwards from a centre circle spanning nearly the full height of the structures to split off in to CHS steels to create the decorative weave pattern of the three layered bloom canopy. Laser cut plate to be used of the refined detailed areas.

The lower 'circle' section approx. 6 meters in height comprising of the 12No RHS to be enclosed to create an accessible feeder pillar for the LED lighting, gobos, and other interactive features. The lower section not to incorporate any footholes.

The Structure to be installed onto a pre cast concrete foundation with underground ducting allowed for electrical services.





Yorkshire Roses - SEAM Super Structures - On-Site Visualisation

Visualisation of installed Yorkshire Rose Structures

THE SEAM PUBLIC ART

Tim Ward - Circling the Square
November 18th 2024