

Notes

THIS DRAWING READ IN CONJUNCTION WITH :

External Stair Specification
 The below performance specification shall be read in conjunction with NBS Section L30.
 The contractor shall allow to complete the design of the external staircase to the final detailed adjacent and full accordance with BS5300, Approved Document M, Approved Document K and all other relevant British Standards.
 The adjacent drawings are to indicate stair and balustrade design intent and to coordinate the stairs and balustrades into the overall design. The specialist sub-contractors are responsible for the detailed design and should issue shop / fabrication drawings to the Architect for approval prior to the commencement of the installation of the stairs / balustrades on site. All measurements to be checked on site prior to manufacturing, any discrepancies to be reported to the Architect. Dimensions indicated as 'nominal' are intent sizes, subject to verification as appropriate by specialist Designers.
 All staircases shall be designed and constructed in accordance with BS 5395-1.

At the time of submission, the contractor shall supply the following information:
 List of calculations to demonstrate compliance with all relevant structural and functional criteria or verification of performance by testing or computer modelling.
 - Manufacturers information confirming adequacy of proprietary products.
 - Fabrication drawings showing, e.g. fixings between units, anchorages to supporting structure, joint details, formation of upstands and fitting details.
 - Method statements and quality plan for manufacture, transportation and installation. All steel and grating currently indicated inductively - to be determined following site measure.

Staircases shall be constructed from hot dip galvanneal steel to BS EN 10302 1481 and shall be designed by the fabricator to be self supporting onto concrete gird foundations as Structural Engineers details. The fabricator shall be responsible for submission of all design drawings and calculations to the CA and Structural Engineer prior to fabrication.

Structure to be detailed so stringers to appear continuous and free from bolted or visible connections. All welds to be ground flush or smooth prior to receiving final finish. Any bolted fixings to be concealed or countersunk and flush. All welds to be ground flush or smooth prior to receiving final finish.
 To landings, treads and risers allow for the fabrication of poly Durbur raised pattern non-slip steel floor plate onto support framework to fabricator design. Treads to be designed and constructed to BS EN 10842 and a PTV slip rating in excess of +45 PTV.

Roof canopy over to be profiled metal deck, supported from PFC Channel framework. Include for rainwater gutter and drainage to lowest edge.

Handrails and Balustrades to Access Stair
 The handrail and balustrade system. The loading criteria for the guardrail and associated fixings shall be designed to withstand a uniformly distributed line load of 0.7kN/m, uniformly distributed load of 1.0kN/m² and a point load of 0.8kN in accordance with BS 6180 and BS EN 12150. The design of the system shall fully comply with Approved Document M.

The staircase shall include 40 dia. tubular galvanneal steel handrails, fixed to 50 dia uprights with a max. 1200mm centres. Handrails to landings shall be positioned at 1100mm AFFL & handrails to staircases at 900mm above finish level of stair flight. At top and bottom of stair flights, allow to extend handrails by 300mm in accordance with Approved Document M requirements.

Between 50 dia uprights, provide 16mm galvanneal steel bar in line with rail line to ensure no openings between bars of more than 100mm in accordance with approved document K.

Staircase Finishes
 All metalwork shall be galvanneal and Polyester Powdercoated. Powdercoating of all elements to be undertaken in accordance with BS 5486 1986, contractor shall allow for RAL or BS Standard colours. TBC. All powdercoating with minimum film thickness of not less than 60 microns. Colour of elements to be chosen by client.

Step Edges
 To all step and landing edges, the contractor shall include for the supply and installation of contrasting colour step edge nosing in full accordance with Approved document M and BS8300. Stair nosings to be SF 160R range of products by Quantum Flooring Solutions Ltd, T. 0161 627 4222 or similar and equal approved.

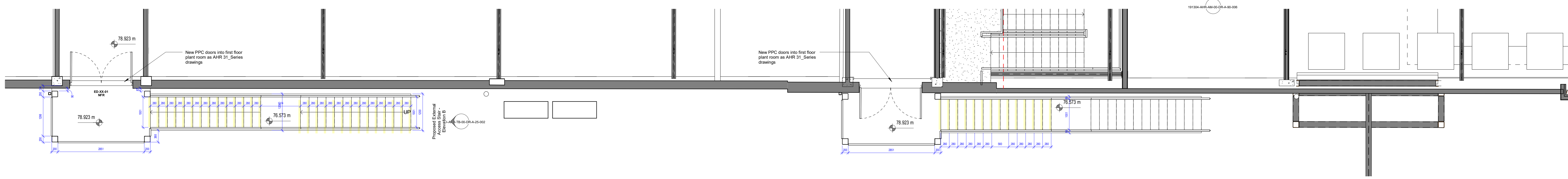
Edge profiles to be installed in full accordance with manufacturers details and written specifications to full width of tread using manufacturers recommended external grade sealant.

Edge profiles to include for Quantum Plus Tread non slip inserts, with colours to be confirmed by client from manufacturers standard range to achieve 30 point LRV difference.

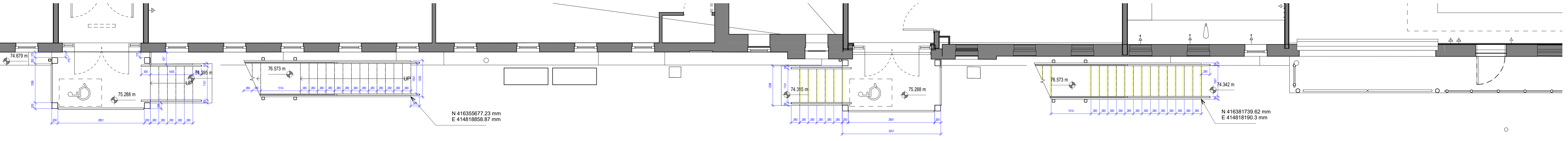
Rev	Description	Date	Dr	App	By	To
P01	Drawing created for planning permission to define content	17.06.21	TO			TO
Author		06/17/21	Approver			Approver

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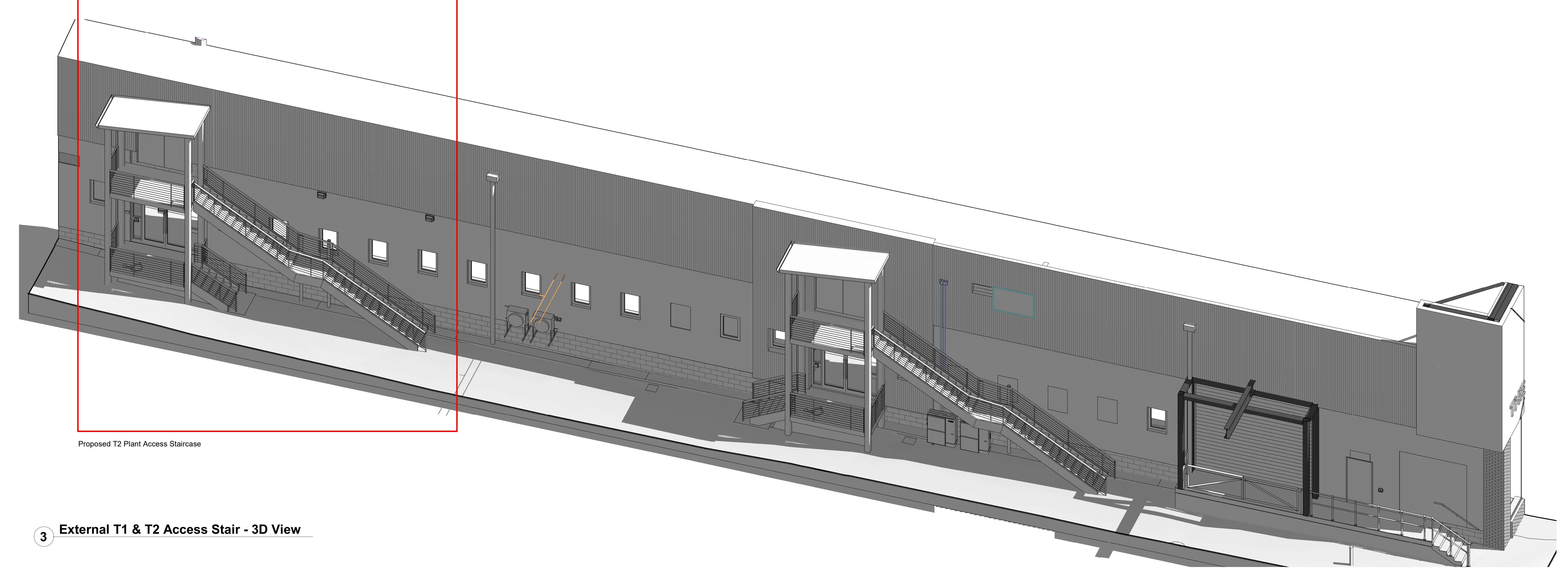
client name	The University of Huddersfield
project	Technology Building
drawing	Proposed External Staircase - T1 & T2 Plant Access
company file	C:\Projects\2019\2019-00013\004
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1 Proposed T1 & T2 External Staircase - First Floor Plan
 1:50



2 Proposed T1 & T2 External Staircase - Ground Floor Plan
 1:50



3 External T1 & T2 Access Stair - 3D View