



Steel Detailing
Building Information Modelling

Company Profile

ACS is a virtual construction modelling service provider specialising in Building Information Modelling (BIM) and Structural Steel Detailing.

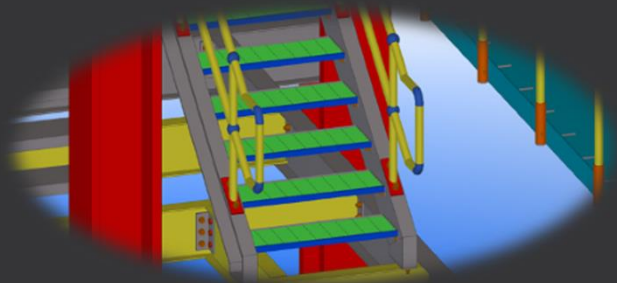
ACS was established in 1999 to serve a growing need in the marketplace for a dedicated Structural Steel Detailing and Architectural CAD Services provider with the technical expertise and flexibility to meet the demands of industry.

ACS offers its services to the Construction Industry and Associated Professions. Our business has grown successfully through continued investment in technology and people, and today in addition to our Steel Detailing service we offer a cutting edge 5D Building Information Modelling (BIM) service to our clients. The BIM enables our clients to visualise their construction project before ever going to site, allowing them to identify design conflicts and minimise costly on-site design changes and reduce downtime. Construction Scheduling (4D) and Construction Costs (5D) can be applied to the model to provide even more value.

ACS has its office in Cork City, Ireland and offers its services internationally.

Our CAD Software:

Tekla Structures - Revit Structure, Architecture & MEP - AutoCAD - Navisworks



Services

Our Steel Detailing service includes:

- ~ Generating Tender Models
- ~ General Arrangement Drawings
- ~ Fabrication Drawings
- ~ Connection Details
- ~ 3D Model
- ~ Erection Plans
- ~ Bolt Lists
- ~ Material Lists/Take-Offs & Tonnage Estimations
- ~ BIM Modelling & Clash Detection
- ~ Anchor Bolt Drawings
- ~ DSTV Files for Cutting & Drilling
- ~ DXF Files for Plate work
- ~ Phasing/Lotting
- ~ 3D Sequencing/Planning

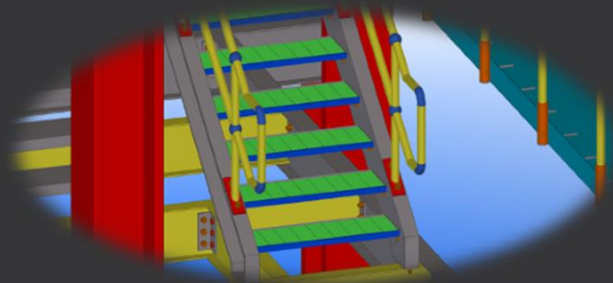
Our Quality & Commitment Standards:

All our projects are subjected to a rigorous internal audit process. This process is driven by senior management and operated by everyone in our organisation to ensure we deliver error free projects on time, every time. Each project that is undertaken by ACS is assigned a dedicated project manager to;

- ~ Liaise with our clients to establish project requirements and schedules
- ~ Co-ordinate the smooth transfer of information between the Client and ACS
- ~ Ensure all design changes that may arise are responded to effectively and efficiently minimising impact on delivery schedules
- ~ Ensure our clients expectations are exceeded

Our BIM service includes:

- ~ Intelligent 3D Virtual Model
- ~ Bills of Quantities
- ~ Detailed Drawings and Sections
- ~ NC Files for electronic transfer of data for manufacture i.e. Structural Steel
- ~ 4D Program Scheduling
- ~ Conflict detection between Construction disciplines
- ~ Improved spatial understanding
- ~ Animated construction sequencing



Benefits of BIM

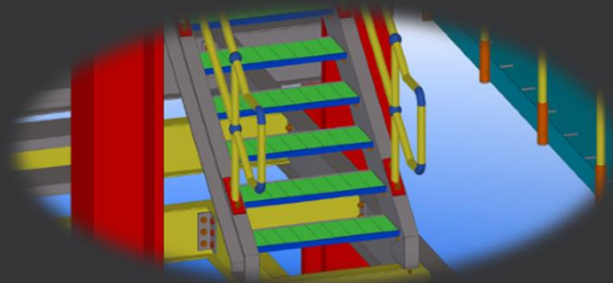
Our Building Information Modelling (BIM) service provides our clients with an intelligent 3D model of their development. Using the model we carry out a Virtual Construction Analysis of the building to test for construct-ability and potential conflicts. The results of this analysis allow us to accurately predict how various construction disciplines designs will integrate on-site, thus eliminating costly time delays due to on-site clashes and design changes. We use a number of leading 3D modelling software systems to produce the model. This allows us to effectively communicate with our clients and export the models data in whichever output format is required.

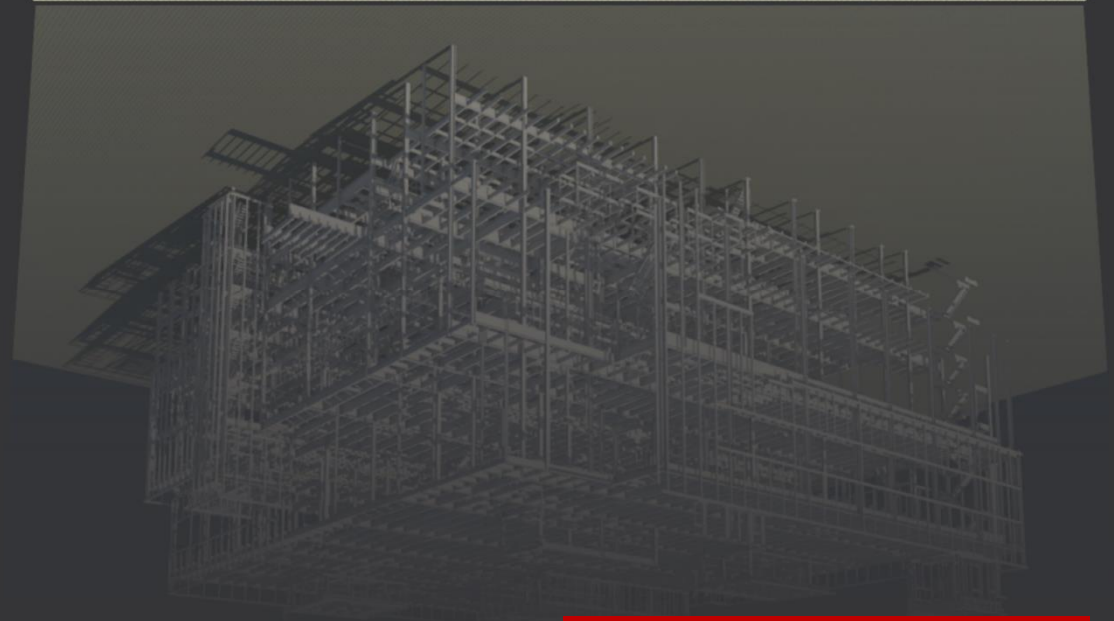
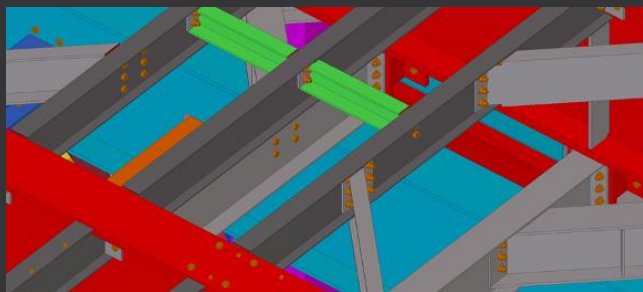
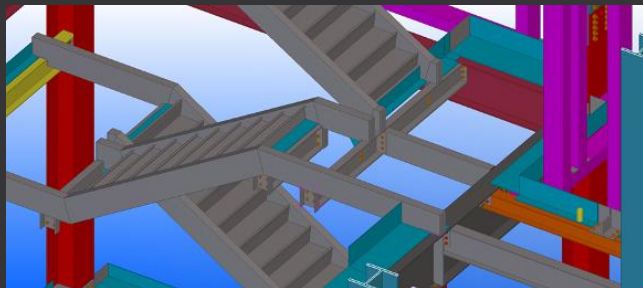
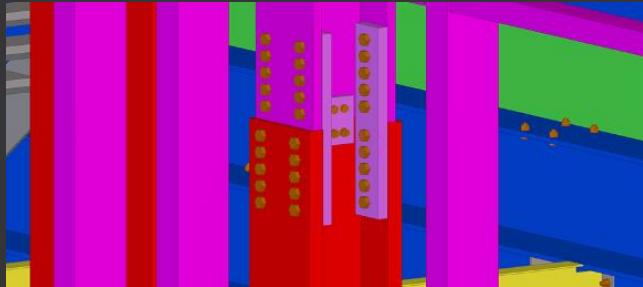
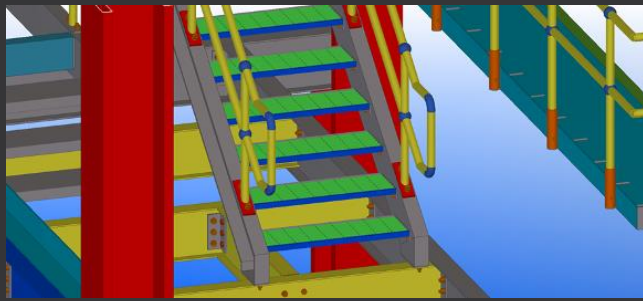
A 4D model can be developed by adding construction event timelines creating a visual program of all construction activities. The model may be further developed to include the cost of materials and labour generating a 5D model where the cost impact of any future design changes are immediately seen.

Our BIM process can begin at either the concept / planning phase or pre-construction phase. Combining information from the Architectural, Structural and MEP design teams to create an intelligent 3D Virtual As-Built Model. This can contain as much information as the client requires, even down to the fit-out and finishes of the building.

Benefits of BIM:

- ~ Improved communication between all project participants
- ~ Co-ordination of all design disciplines through the BIM
- ~ Accurate Quantity Take-off directly from the model
- ~ Facilitates early procurement process
- ~ Facilitates off-site manufacturing
- ~ Clarity in construction sequencing
- ~ Reduces the impact of design changes
- ~ Reduces Waste
- ~ Savings in cost and time





Eli Lilly, IE43 Biotech Manufacturing Facility

Scope of Works: BIM & Structural Steel Detailing

Tonnage: 4000T



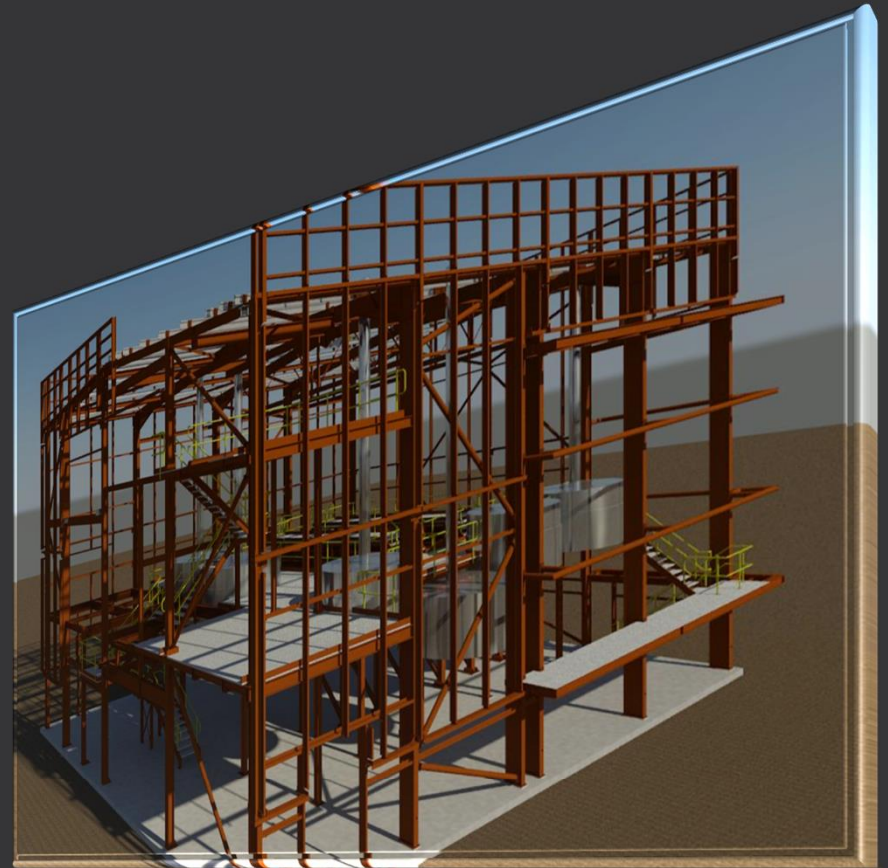
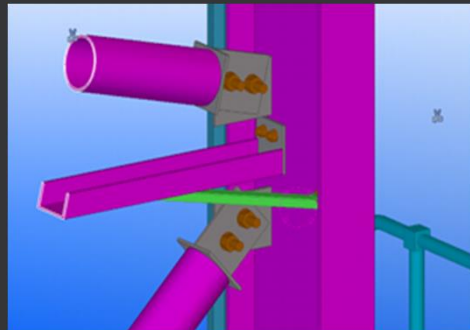
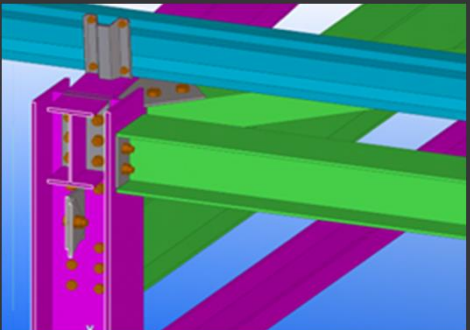
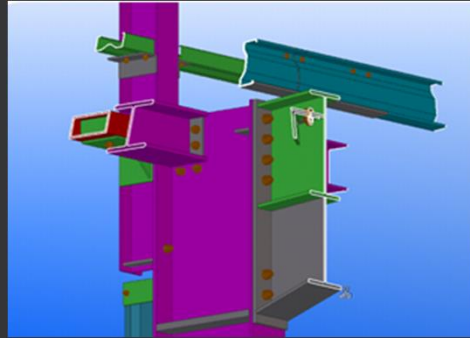
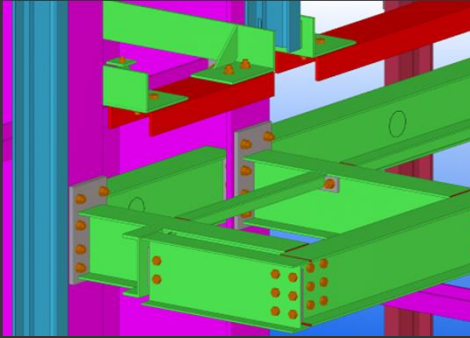
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Giant's Causeway Visitors Centre

Scope of Works: BIM & Structural Steel Detailing





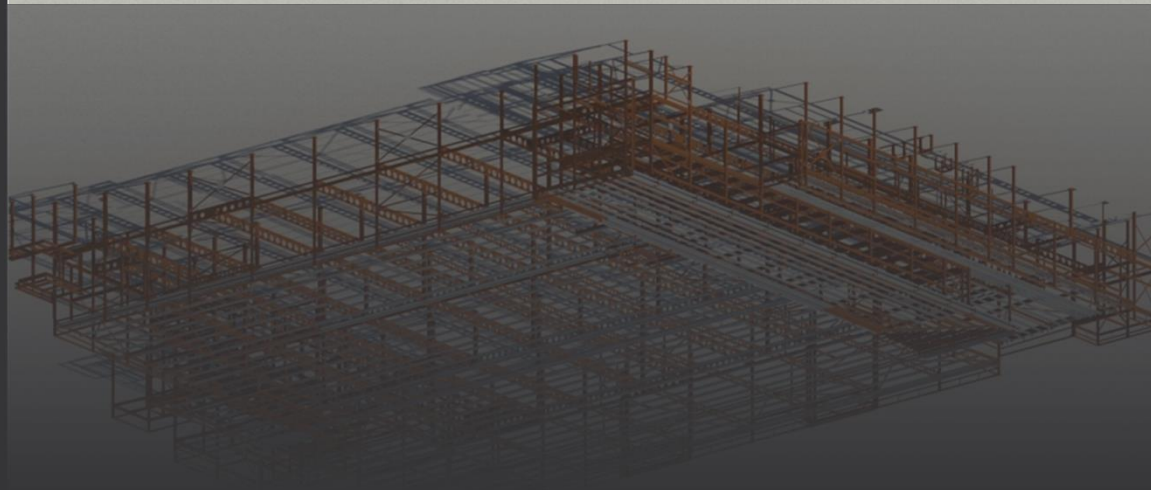
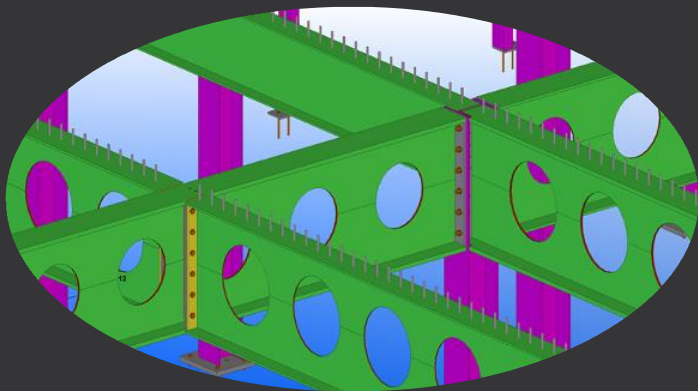
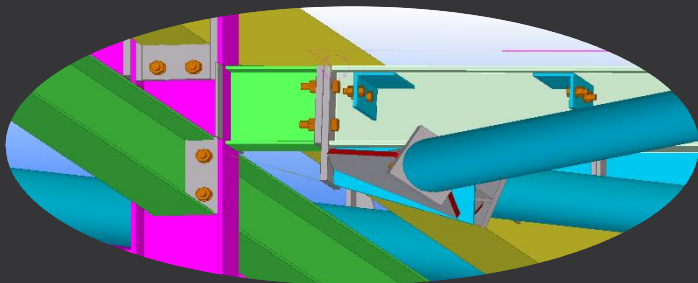
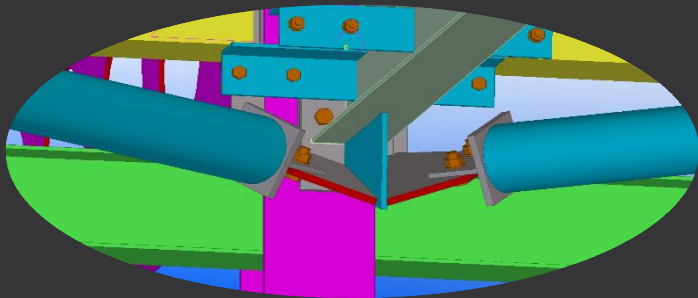
Brew House, Irish Distillers Ltd.

Scope of works: Structural Steel Detailing

Tonnage: 120T



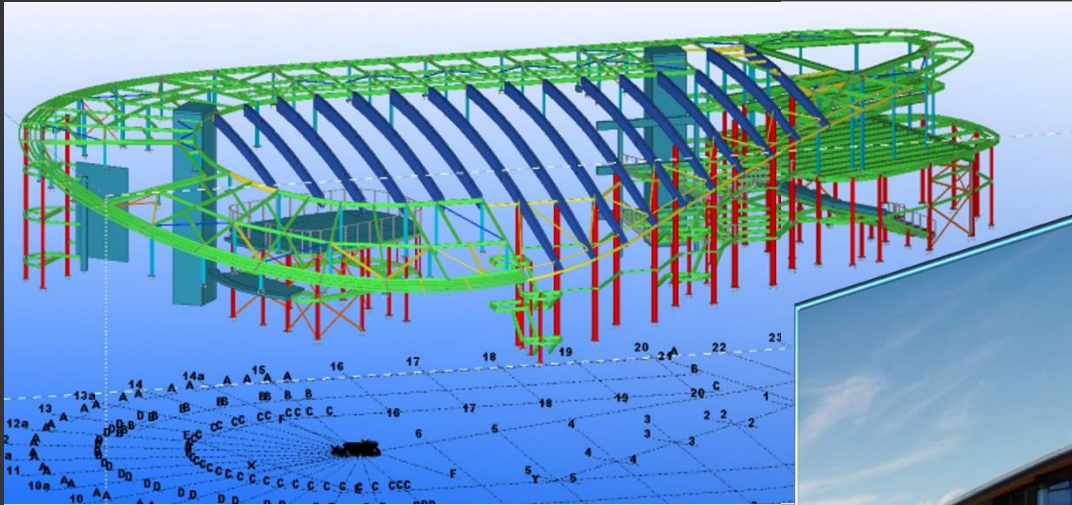
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Morrisons Store, Cardiff

Scope of Works: BIM & Structural Steel Detailing

Tonnage: 700T



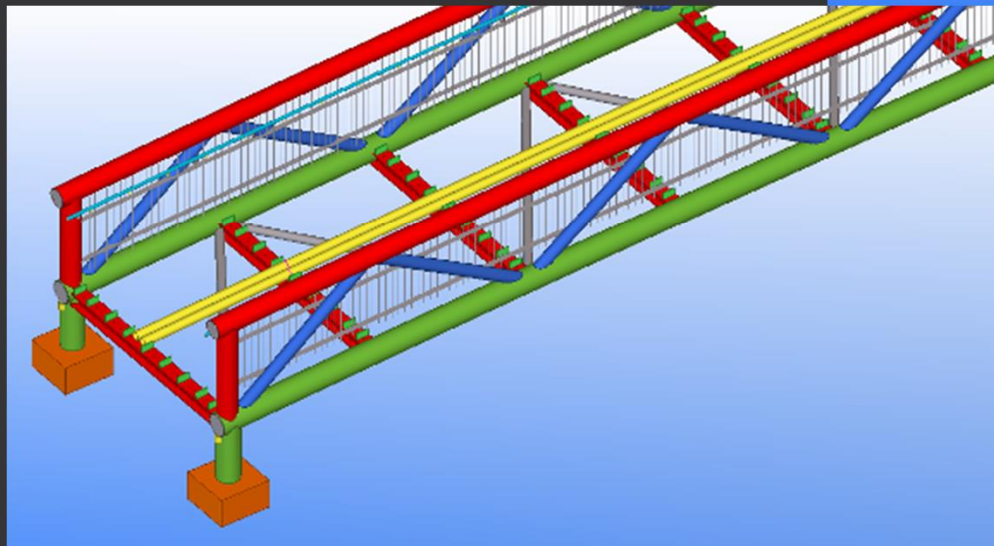
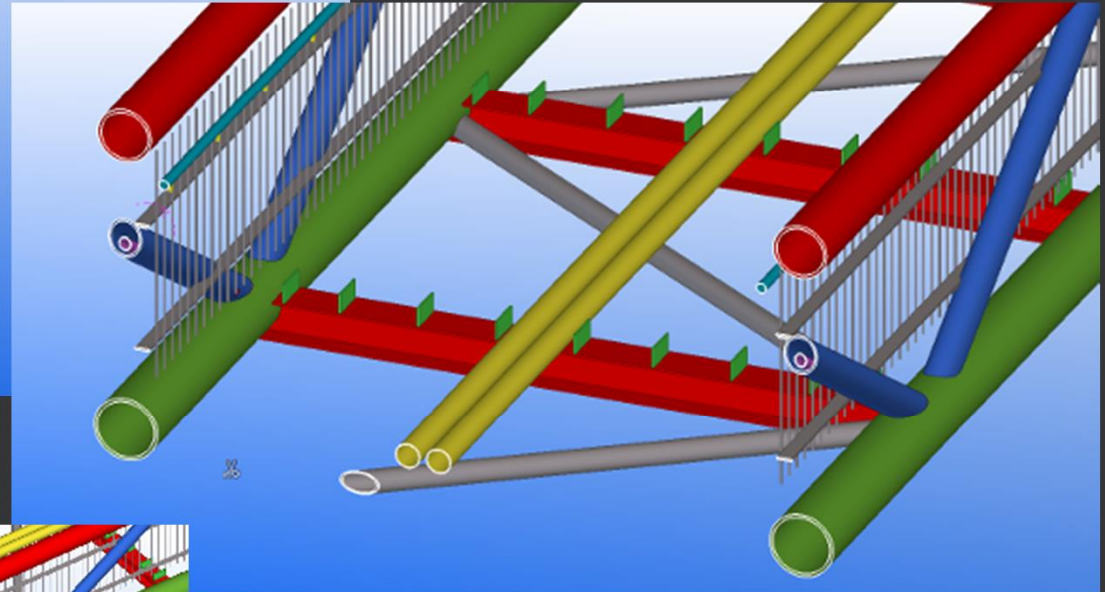
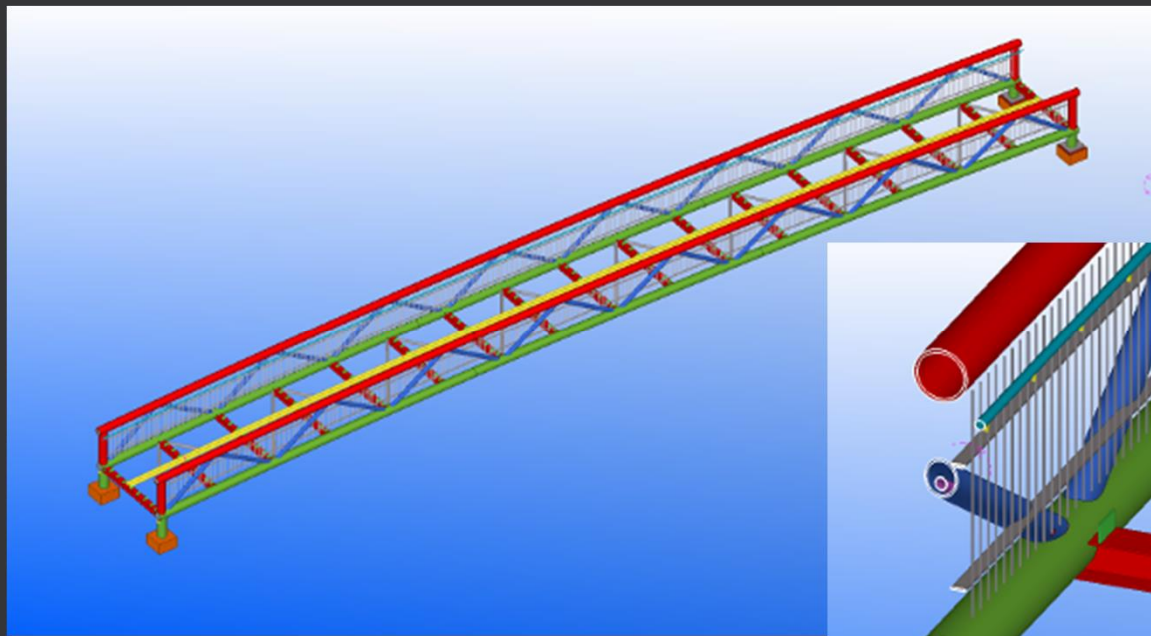
The Ron Cooke Hub, University of York

Scope of Works: Structural Steel Detailing

Tonnage: 640T



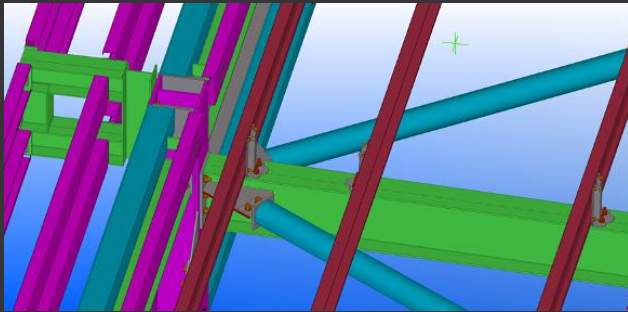
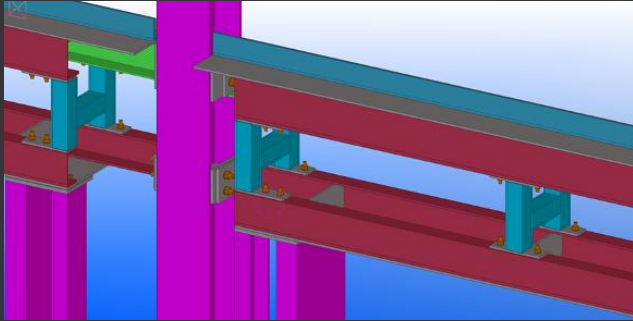
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Kilkenny City Pedestrian Bridge

Scope of Works: Structural Steel Detailing

Bridge Span: 38 Meters



Eastgate Retail Centre, Little Island, Cork

Scope of Works: Structural Steel Detailing

Tonnage: 550T



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