

3D STRUCTURAL DETAILING SERVICES LIMITED

3DSDS



STRUCTURAL & ARCHITECTURAL DETAILERS

You Design it, We Model, Detail and Deliver Your Drawings.

Crafting Steel with Technology.

Location is not an issue in this digital cloud age, let's get things done.



SCAN ME

3D STRUCTURAL DETAILING SERVICES LIMITED - (3DSDS)

We are passionate about 3D Structural & Architectural Detailing, but this is not all we do.

PORTFOLIO

For more information, please email enquiries@3dsds.co.uk
or give us a call on +44 (0) 74 8194 0018



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About

3DSDS was founded by Teresa Benson-Shettle in 2018, and the main mission was to provide affordable professional services to the Construction Industry. Having been in the construction industry for over 25 years with experience using AutoCAD R9 to 2025, Advance Steel, Revit, Creo Elements, FreeCAD, SolidWorks, Draftsight 2D and SketchUp and many more.

3DSDS uses the latest AUTODESK Software and has experience in producing 2D, 3D, Structural Detailing, Range Design to JSP 403 & Planning Drawings.

Teresa also worked in the past at Graitec UK, developing, teaching and supporting AutoCAD and Advance Steel.

In her years as a Structural Technician and Project Engineer she has worked on various projects for construction that have been located all around the world, these included the following:-

- 3D Printed Projects, Balconies, Bespoke Metalwork (Cage Units, Chairs, Park Benches, Shelving Units, Tables),
- Fire Escape Staircases (Spiral and Straight), Mezzanine Floors, Portal Frame Structures, Residential and Commercial Steelwork, Sheet Metal Work, Shooting Ranges (MOD), Timber Frame Structures & Telecommunication Towers.

When Teresa started the Company, her vision was to provide a professional affordable service in the Steel Industry and as a company work closely with our clients to produce the design and fabrication drawings with all the necessary documentation using the specifications provided.

3DSDS will firstly produce drawings for approval from information provided once approved we will complete the project and issue all the necessary documentation and drawings for fabrication, if required we can work in collaboration with your appointed Chartered Structural Engineer to created the recommended Steel Connections for your project.



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Services

- **2D Draughting Services**
- **3D Modeling & Detailing Drafting Services**
 - **3D Prototype Printing**
- **CAD Training – AutoCAD & Advance Steel**
- **Technical Support – AutoCAD & Advance Steel**
 - **Printing Services – A1, A2, A3 & A4**
- **Conversion to CAD – PDFs and Image Files to CAD**
 - **Conversion to CAD - Point Clouds**
 - **Landscape Design**
 - **Rendered Visuals & Videos**
 - **Engraving Services**



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Software

- Here at 3DSDS we use the following software:-
- AutoCAD – Versions 2021, 2022, 2023, 2024 & 2025
- Advance Steel – Versions 2021, 2022, 2023, 2024 & 2025
- Revit – Versions 2021, 2022, 2023, 2024 & 2025
- Twinmotion



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TESTIMONIALS

Alan Staton Bower-Bennett Ltd

"Teresa has a vast technical knowledge and she understands what she's doing. She's aware of contractual commitments and always works towards helping you achieve them. Teresa is personable and is easy to communicate with. She grasps the problem and is business like in solving it."

Matt Covil - Cubic Defense (UK)

"We sat a 3-day introduction to AutoCAD course with 3DSDS, (Teresa) and it was delivered on point, and everything was tailored to our needs. The course was delivered with a lot of hands-on work, (which is a must) and documented "how to" information for reference was also handed out and very useful. If you are looking to get started with AutoCAD, I would highly recommend this course!"

Eddie Gevorkian CEO 1 Techno Canada

"Teresa was instrumental helping my new team at 1Techno (Distributor for GRAITEC) get on their feet. For the past five years she has been a gem, putting her heart into every project. Her people skills are excellent."

Peter Scannell - Macai Projects Ltd

"3DSDS provided a fast, efficient and effective service, often delivering what was asked ahead of schedule. Any queries were dealt with straight away. I would have no hesitation in using them again or recommending them to others."

Russ Uridge - DesignBYRuss

"Teresa is an exceptional tutor. Very thorough with very in-depth knowledge of Advance steel as well as the fabrication and erection processes. She has very good communication skills and is a great judge of what you need to proceed. Every minute was valuable, and I would recommend her to anyone of any ability."

More can be found on our website. www.3dsds.co.uk



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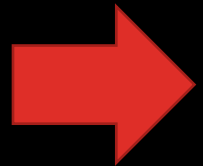
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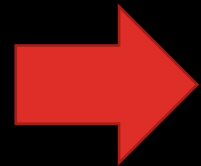
STAGES OF WORK

STEP 1



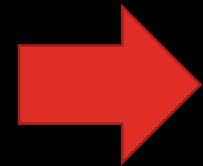
Clients request a Quotation from provided information

STEP 2



On accepted, Invoice sent with a maximum of a 3 Staged Payment Schedule

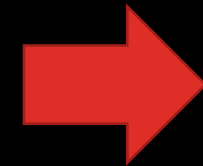
STEP 3



Start Project,
Once 3D model is created an Online link to a 3D Viewer is provided and GAs for Approval is sent,

GAs Include:-
Plans, Isometrics and Elevations

STEP 4



Once GAs are Approved the Fabrication Package is started

Fabrication Pack Includes:-
GAs
BOMs (Bill of Materials)
Assemblies
Single Parts
NC & NCDXF Files (For CNC Machine)

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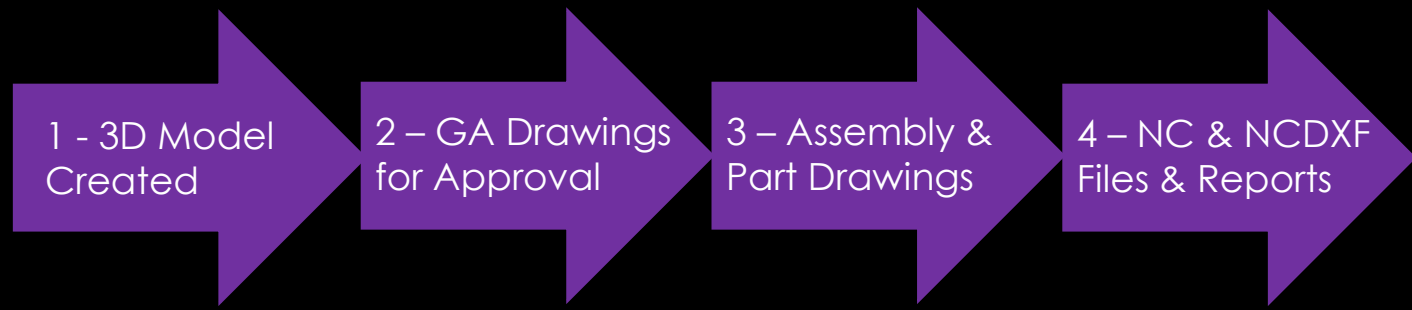
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DETAILING SERVICES



WORKFLOW



WE WORK FOR

- Structural Engineering Consultants
 - Fabricators
 - Architectural Firms

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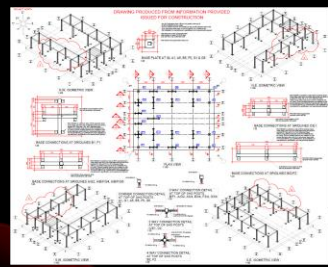
WHAT WILL I GET FOR MY MONEY?

Software used – Advance Steel 2024

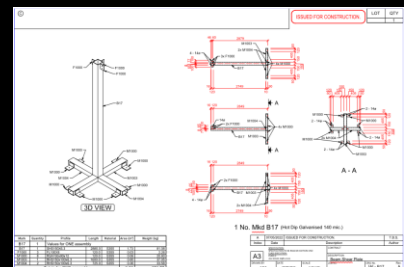
The Fabrication Pack includes the following information:-

- GAs – PDF Format
- Assemblies – PDF Format
- Single Parts – PDF Format
- NC & NCDXF - .nc Format & .nc.dxf Format
- BOMs – (Bill of Materials) – Bolt List, Material List, Assembly List, Loading List.

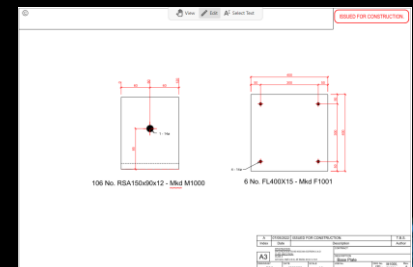
GAs – PDF Format



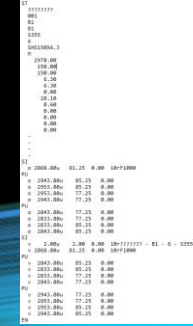
Assemblies – PDF Format



Single Parts – PDF Format



NC Files - .nc Format



NCDXF - nc.dxf format – CAD file

Mark	Size	Quantity	Grade	Length	Width	Weight	Total Weight	Surface Area	Total Surface Area
001	100	1	S275	2000	100	200	200	10000	10000

BOMs – (Bill of Materials)

Mark	Size	Quantity	Grade	Length	Width	Weight	Total Weight	Surface Area	Total Surface Area
001	100	1	S275	2000	100	200	200	10000	10000

Mark	Size	Quantity	Grade	Length	Width	Weight	Total Weight	Surface Area	Total Surface Area
001	100	1	S275	2000	100	200	200	10000	10000

Mark	Quantity	Size	Grade	Length	Weight (kg)
001	1	100	S275	2000	200

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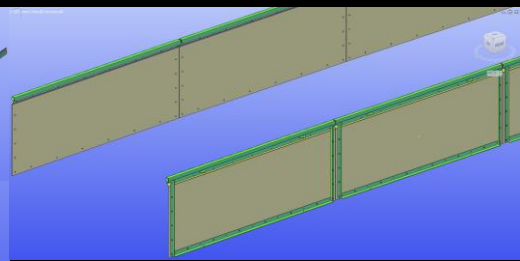
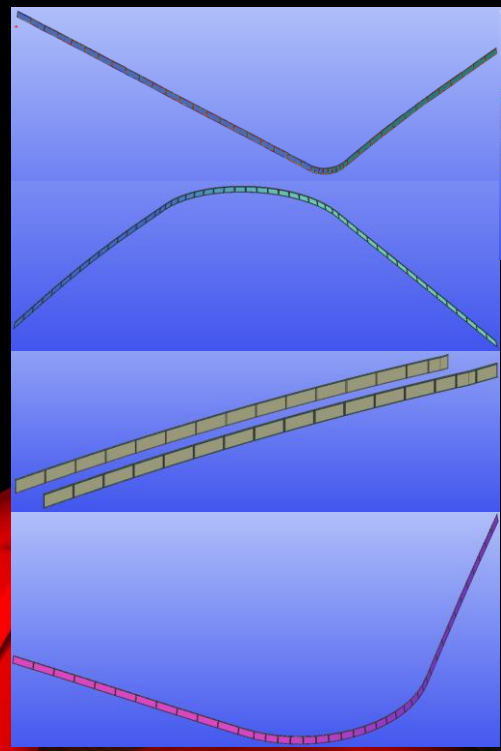
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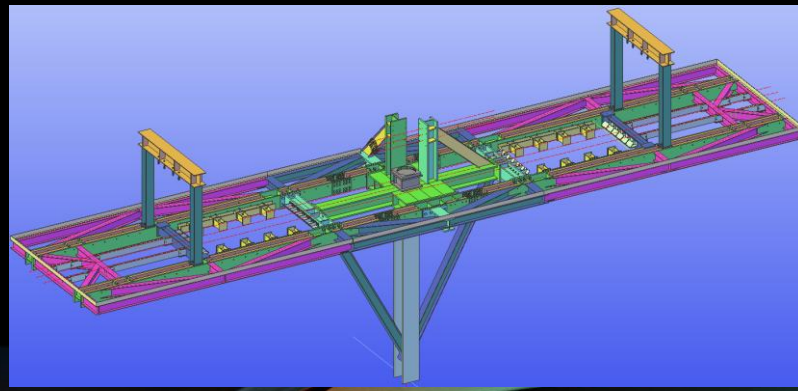
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WHAT A BUSY FEW MONTHS

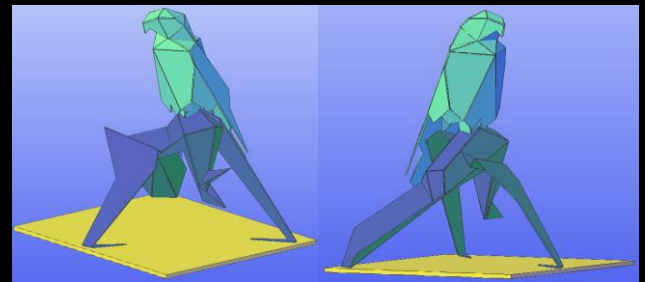
Replacement of Bridge Handrailing – 4 Sections



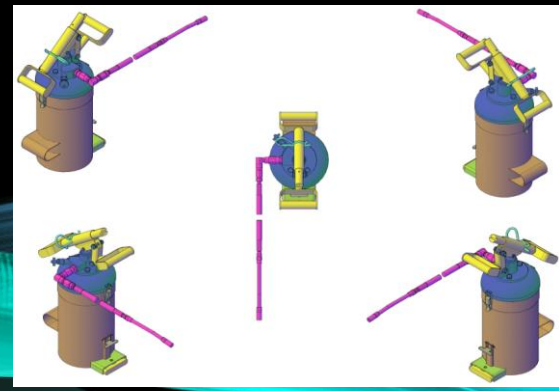
Bridge Inspection Platform
Current Project



Abstract Sculpture



Lubricating Grease Pot



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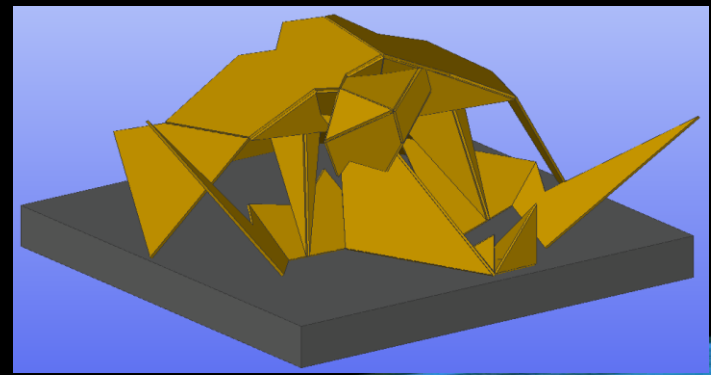
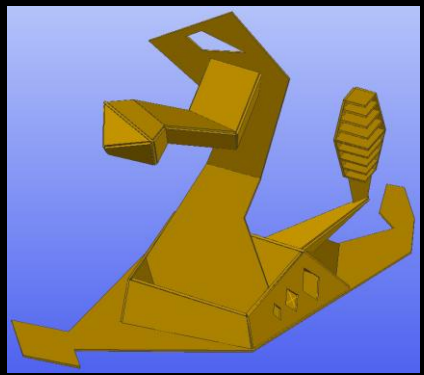
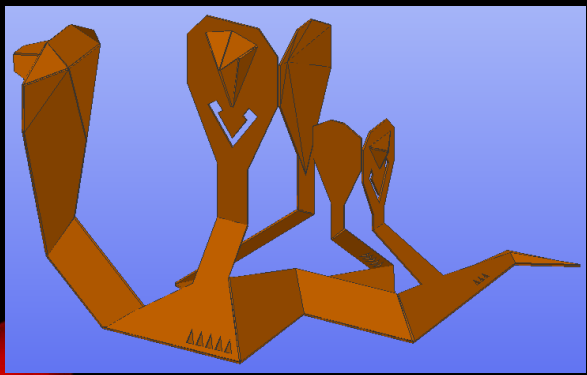
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ABSTRACT SCULPTURES

Given 5mm Foam Board Models to create these sculptures from and then generated the fabrication documentation.
Sculptures:-

1. Cobras
2. Rattle Snake
3. Goshawk

Just proves Advance Steel can be used for many different things.



Software used – Advance Steel 2023



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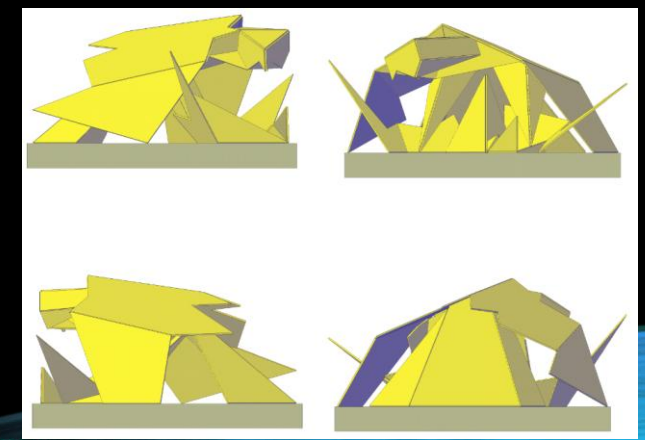
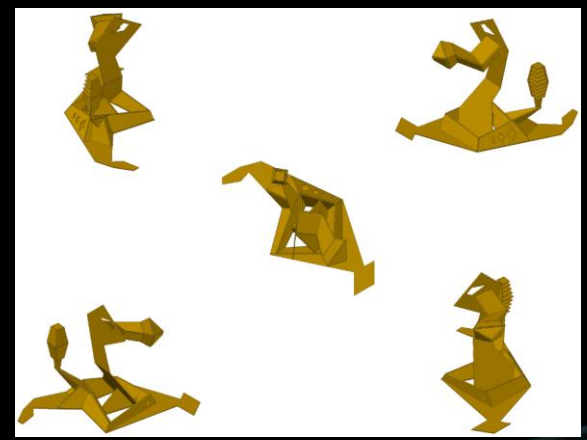
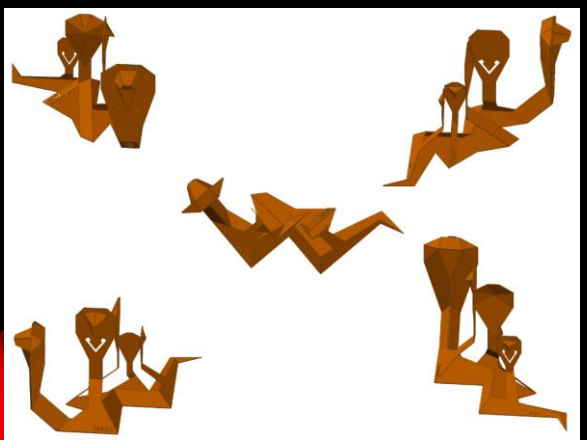
ABSTRACT SCULPTURES OUT FOR FABRICATION

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Software used – Advance Steel 2023



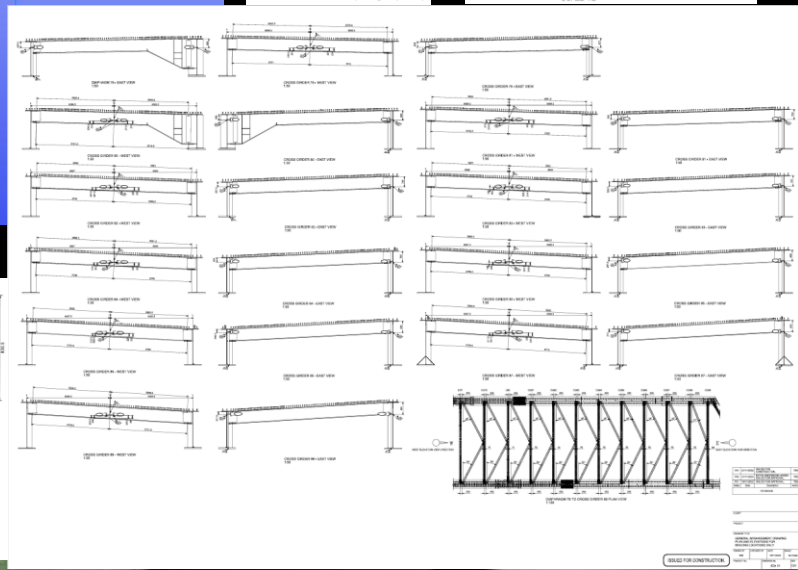
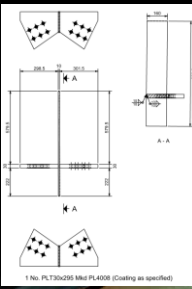
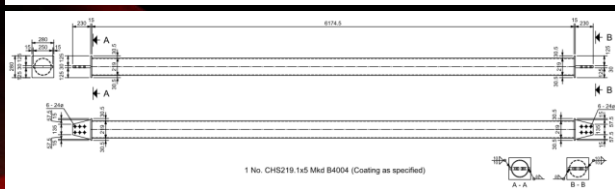
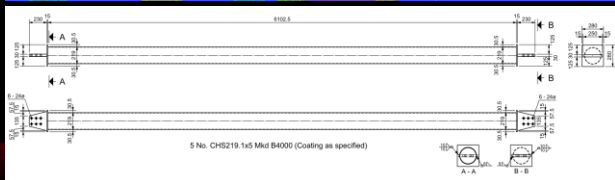
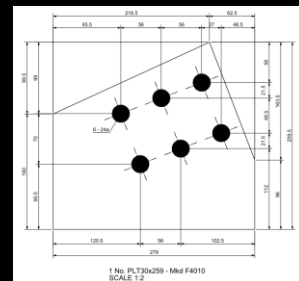
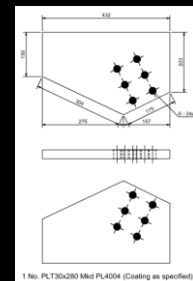
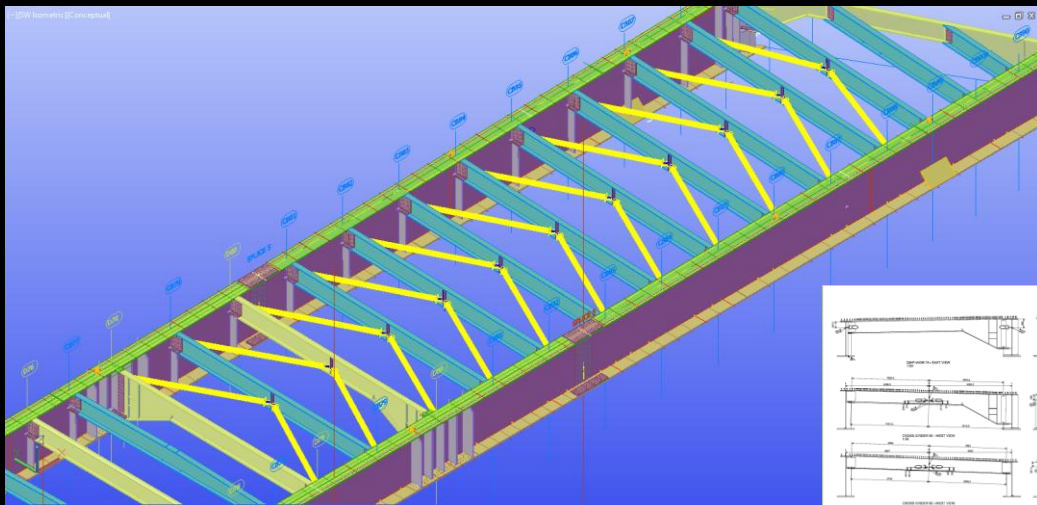
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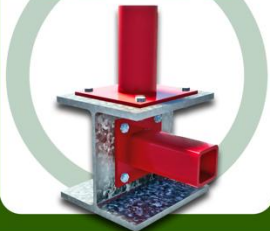


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BRIDGE BRACING OUT FOR FABRICATION



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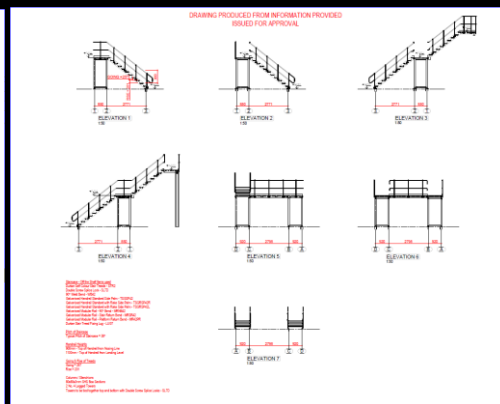
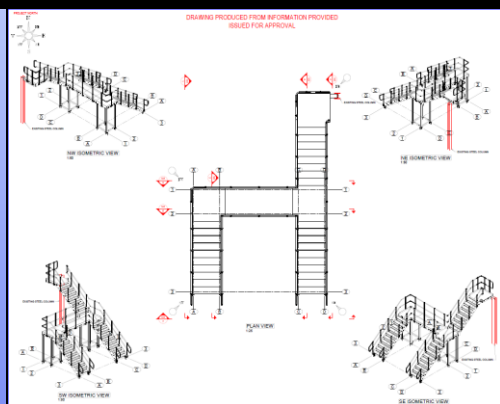
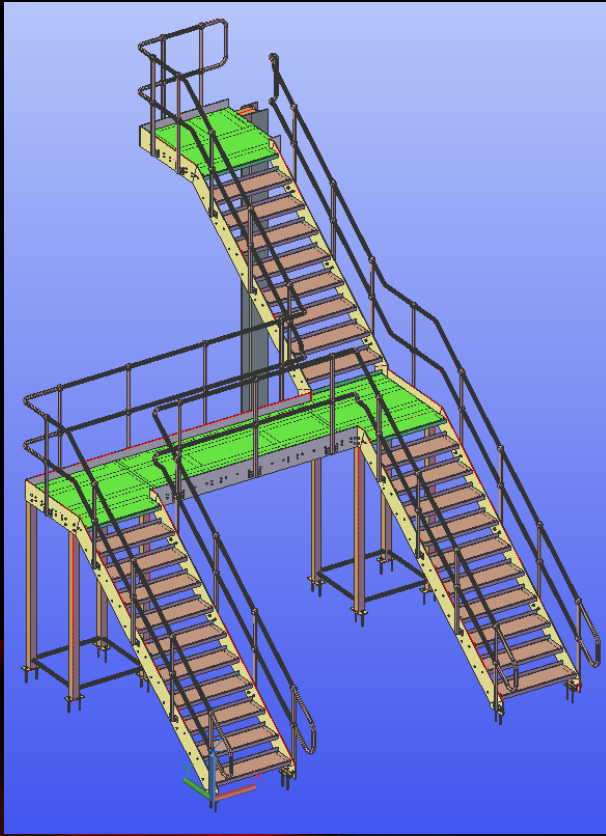
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WALKWAY STAIRS & RAILINGS OUT FOR FABRICATION



SCOPE OF WORKS

Staircase – Must use off the Shelf Items – brought into Advance Steel using Special Parts
Durbar Self Colour Stair Treads - STR2, Double Screw Splice Lock - SL7D, 90° Weld Bend - WB42,
Galvanised Handrail Standard Side Palm - TSGSP42, Galvanised Handrail Standard with Rake Side Palm - TSGRSP42R
Galvanised Handrail Standard with Rake Side Palm - TSGRSP42L, Galvanised Modular Rail - 90° Bend - MRNB42
Galvanised Modular Rail - Stair Return Bend - MRSR42, Galvanised Modular Rail - Platform Return Bend - MR42PR
Durbar Stair Tread Fixing Lug - LUG7

Pitch of Staircase

Typical Pitch of Staircase = 38°

Handrail Heights

900mm - Top of Handrail from Nosing Line, 1100mm - Top of Handrail from Landing Level

Going & Rise of Treads

Going = 257, Rise = 201

Columns / Stanchions – 80x80x3mm SHS Box Sections, 2 No. 4 Legged Towers

Towers to be tied together top and bottom with Double Screw Splice Locks - SL7D



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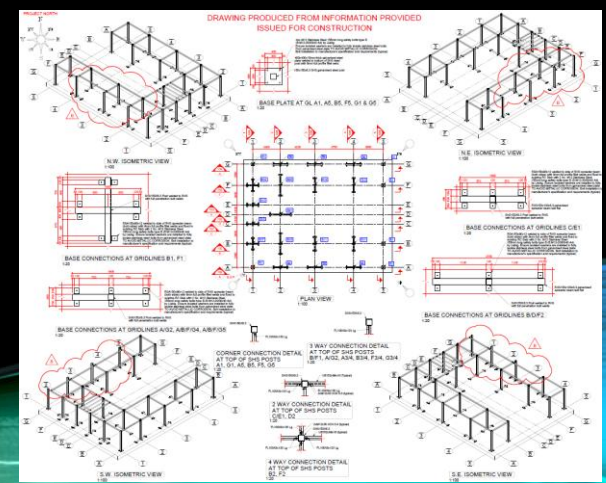
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FINISHED PROJECT PHOTOS



It is always great to see the finished job after hours of detailing work to create the GAs, Assemblies and Fabrication Documentation.

Pergola Design for Office Garden.



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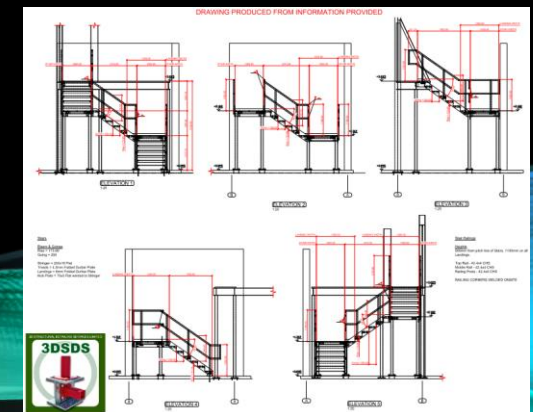
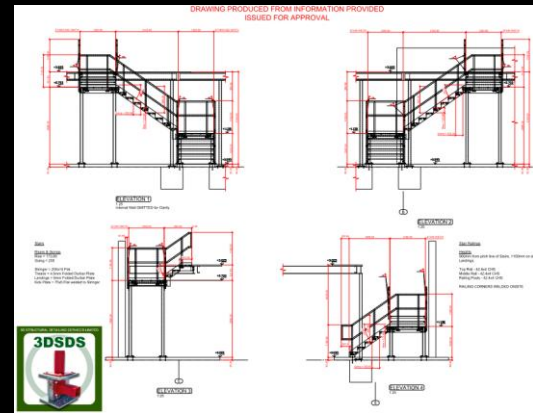
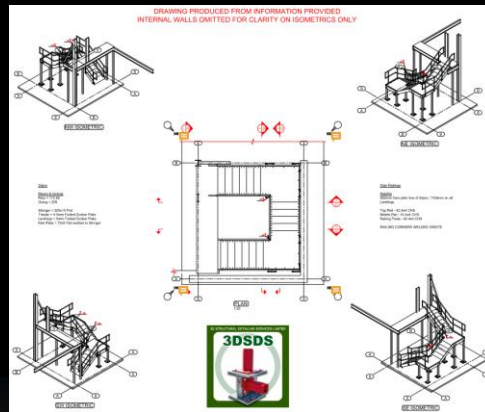
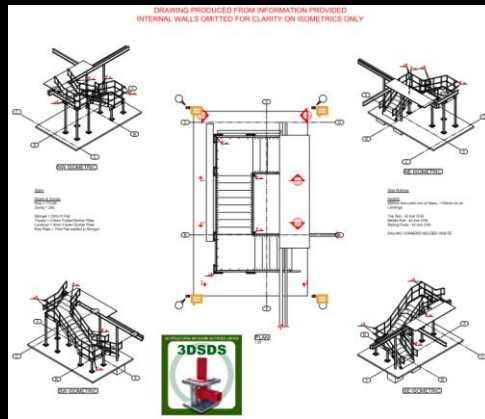
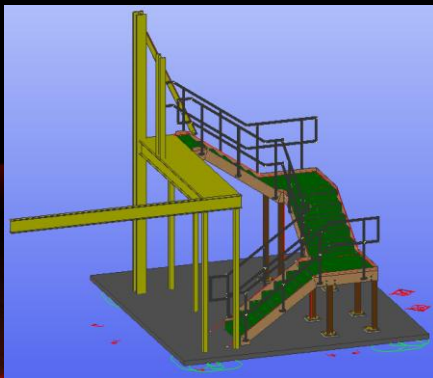
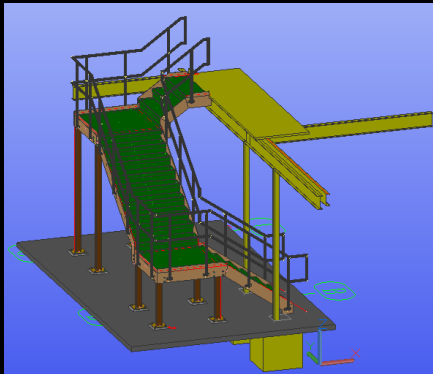
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SET OF STAIRS & RAILINGS OUT FOR FABRICATION





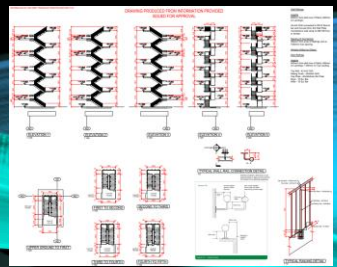
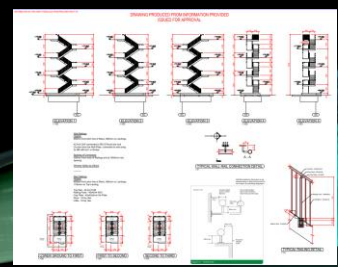
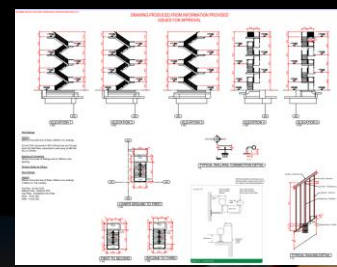
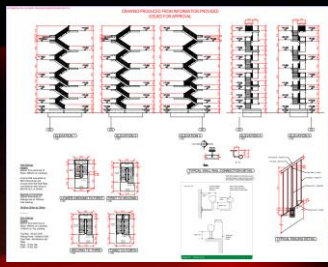
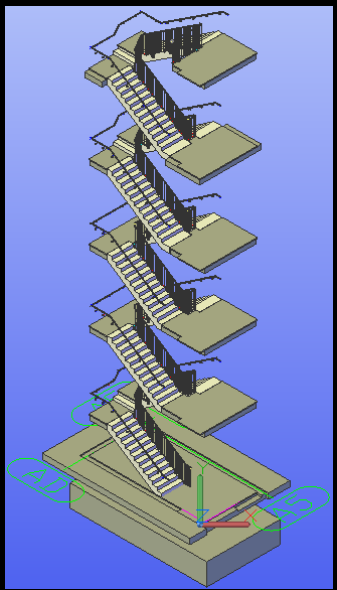
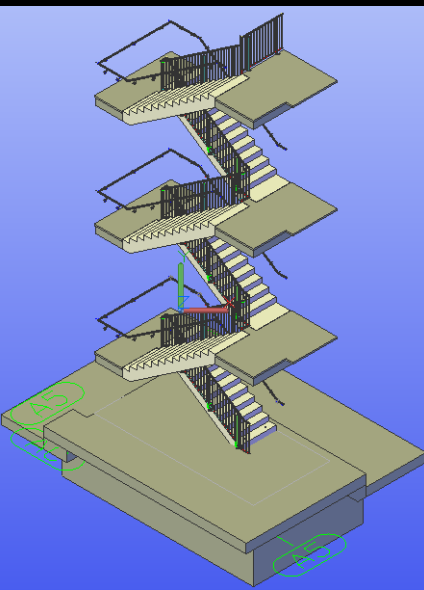
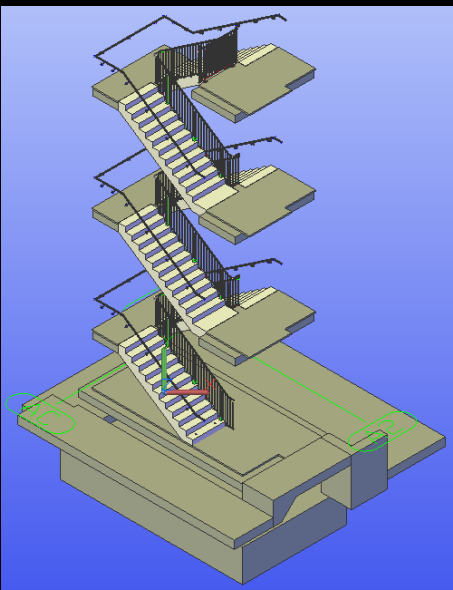
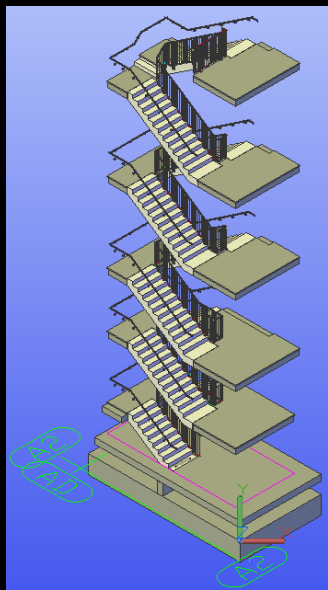
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ANOTHER SET OF RAILINGS OUT FOR FABRICATION





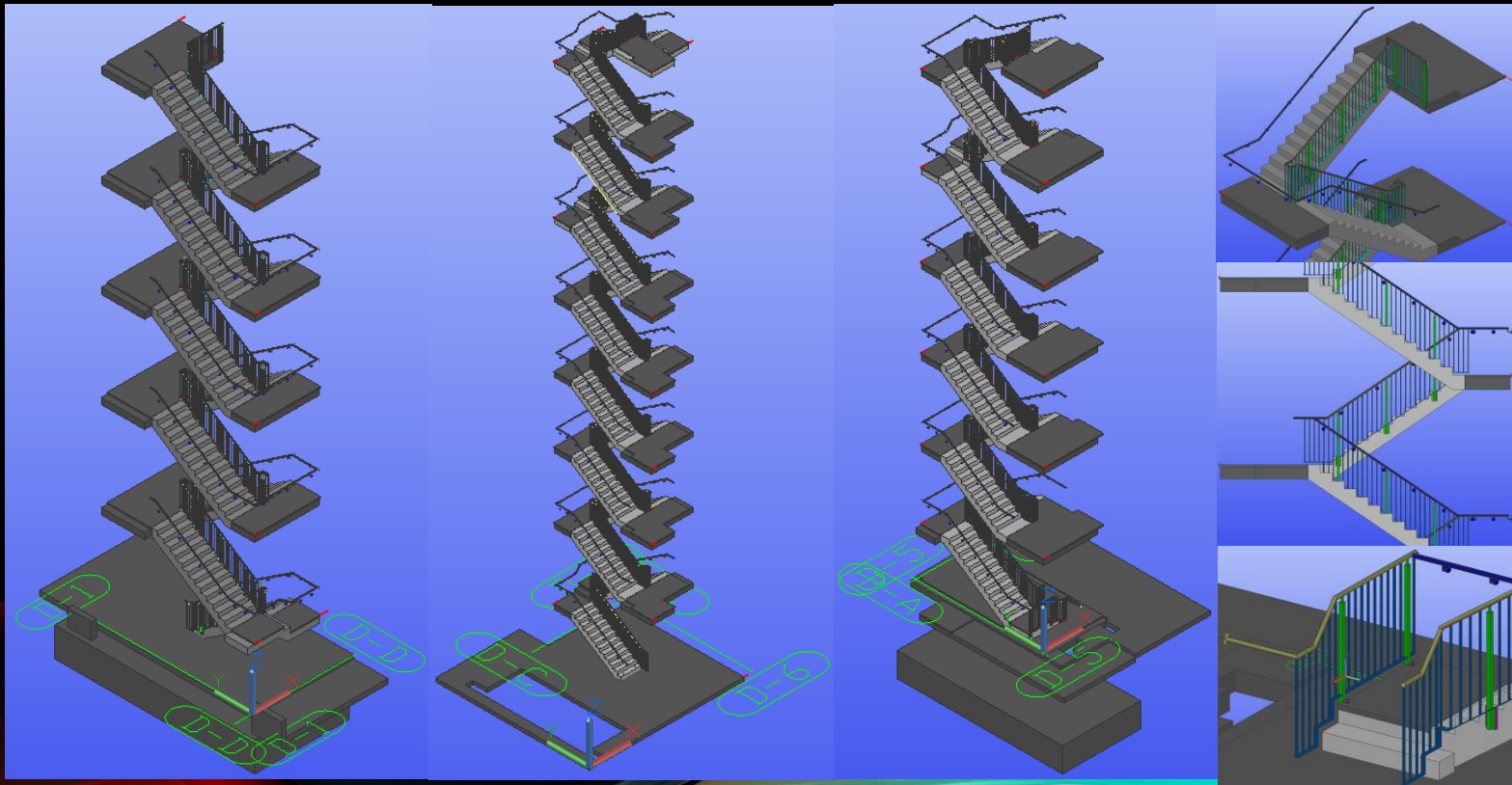
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ANOTHER SET OF RAILINGS OUT FOR FABRICATION



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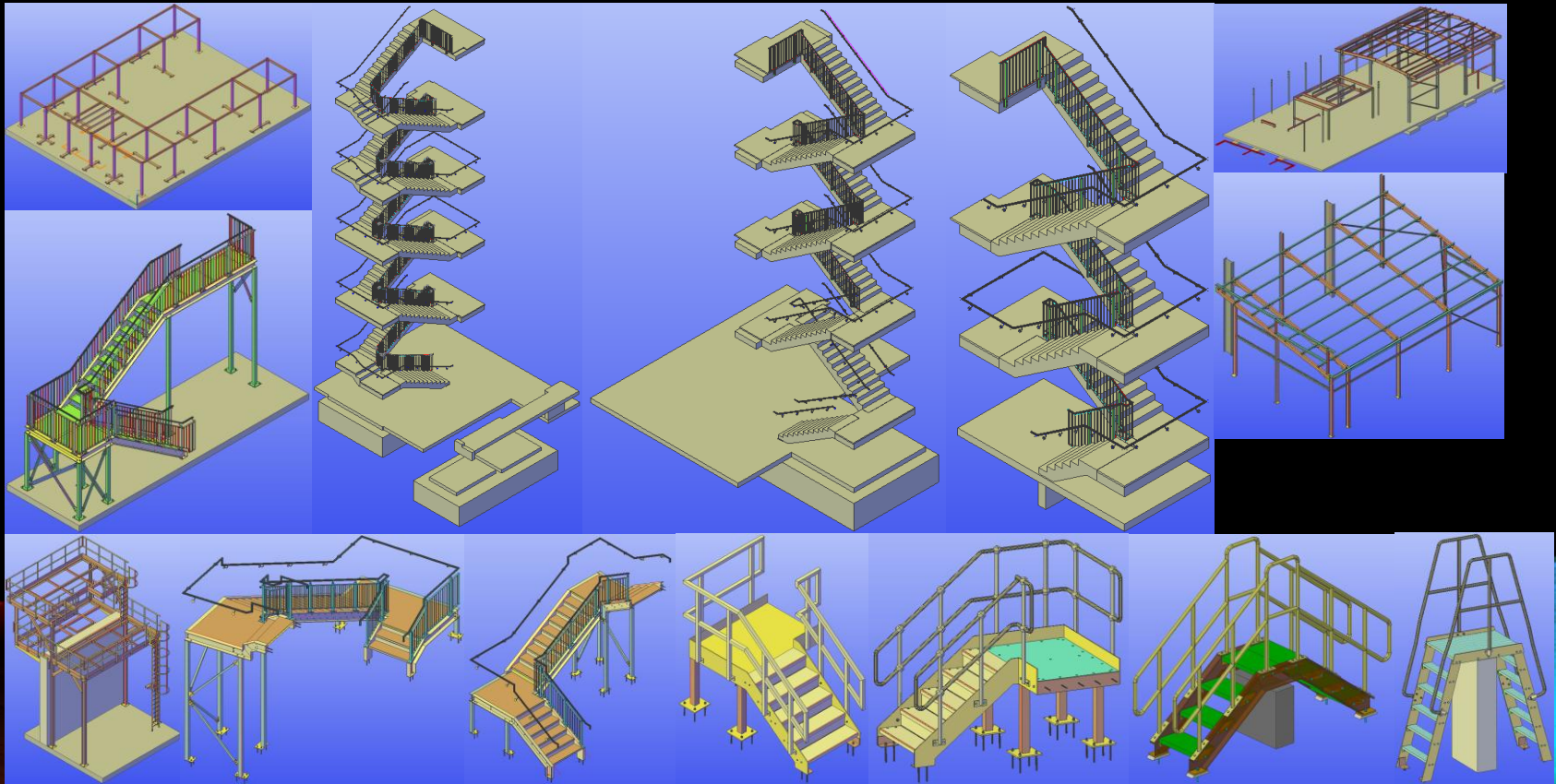
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BUSY FIRST 5 MONTHS OF 2022



Software used – Advance Steel 2022 – Jan – May 2022



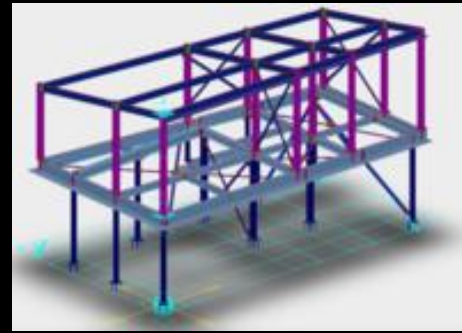
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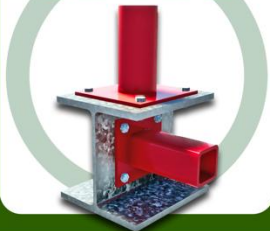


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RECENTLY COMPLETED PROJECT Out for Fabrication / Construction. House Extension



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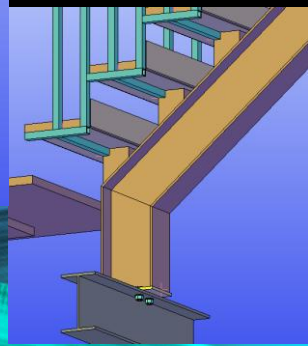
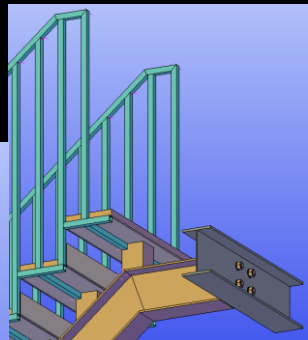
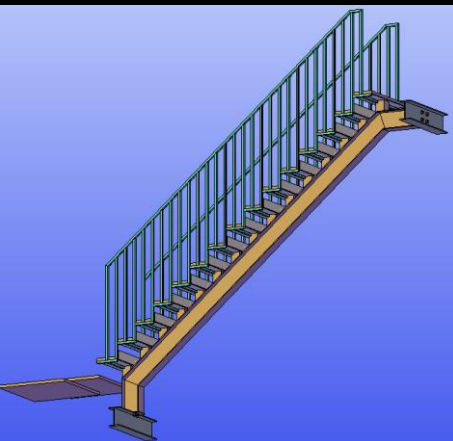
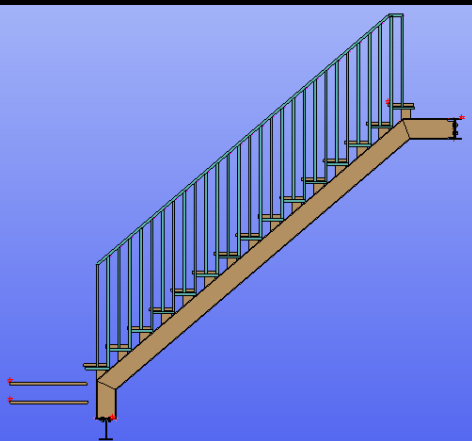
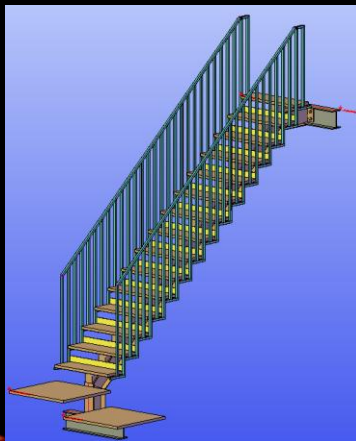
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Software used - Advance Steel 2022

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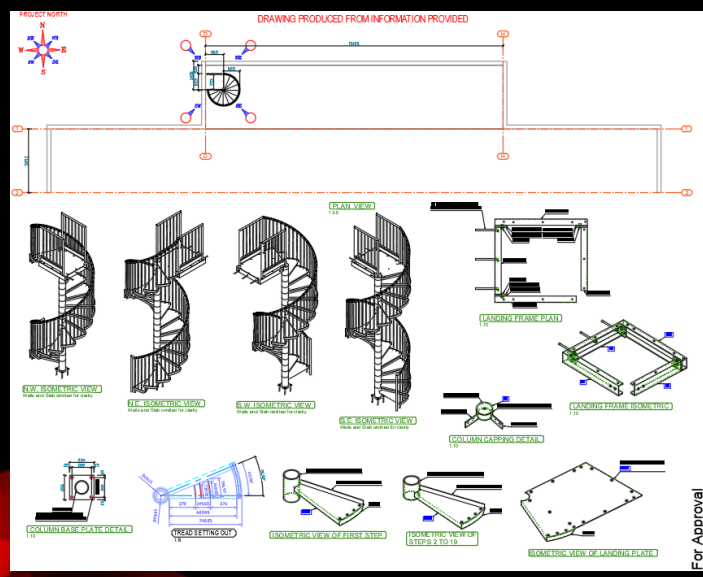
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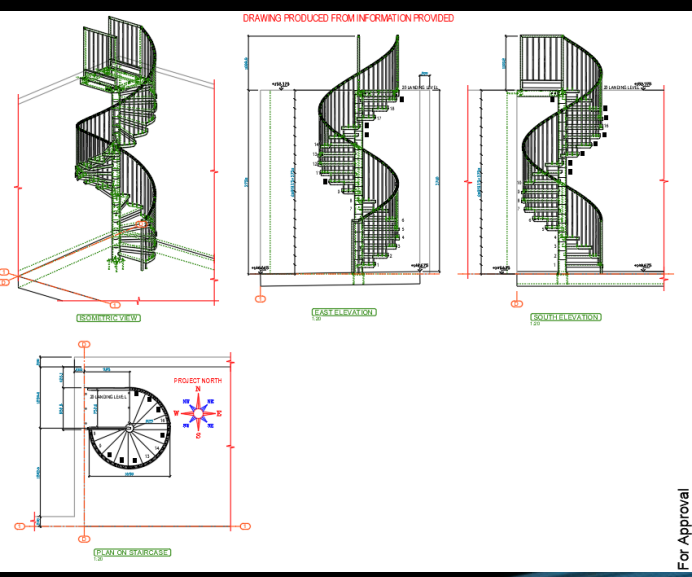


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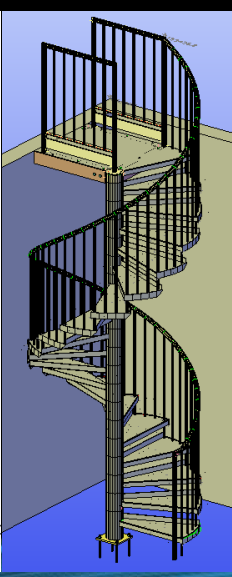
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For Approval



For Approval



Software used - Advance Steel 2022

Rendered video can be watched here - <https://youtu.be/rgdaHLKeKyo>



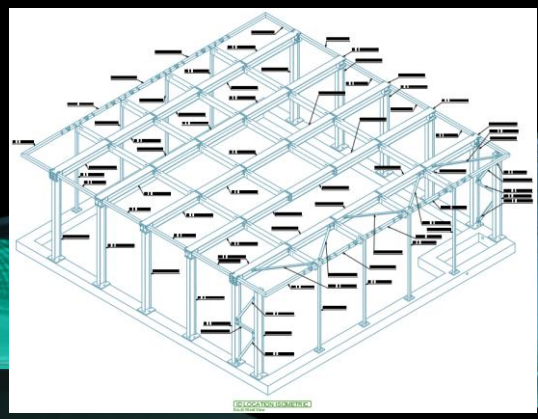
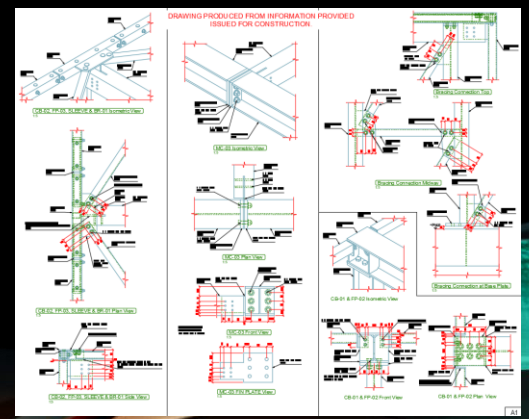
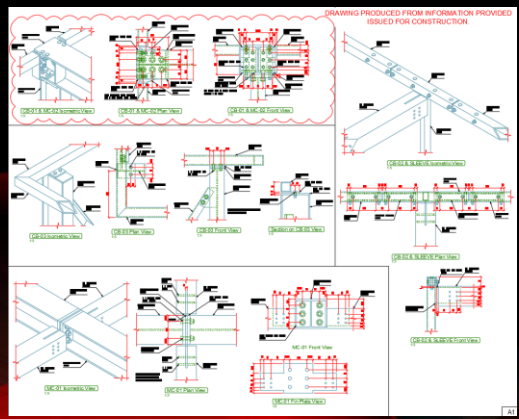
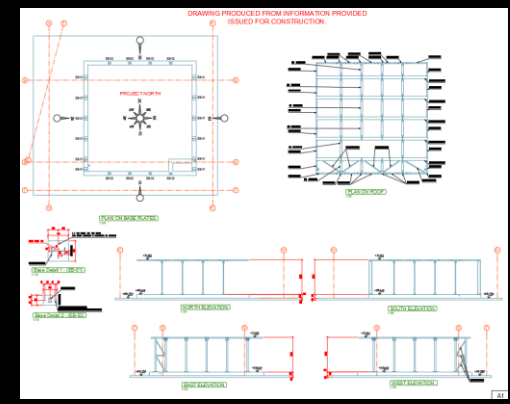
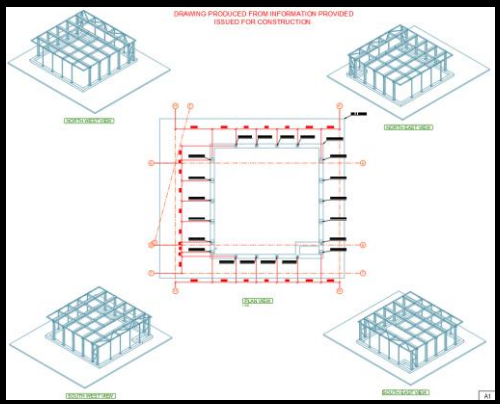
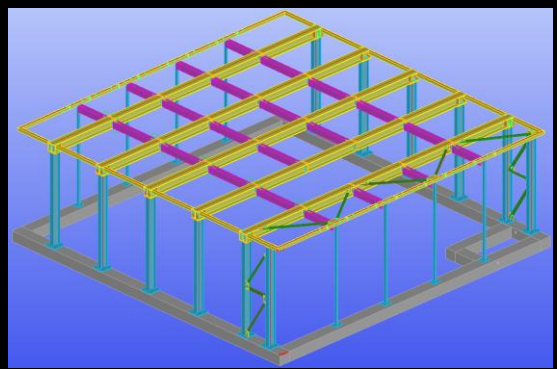
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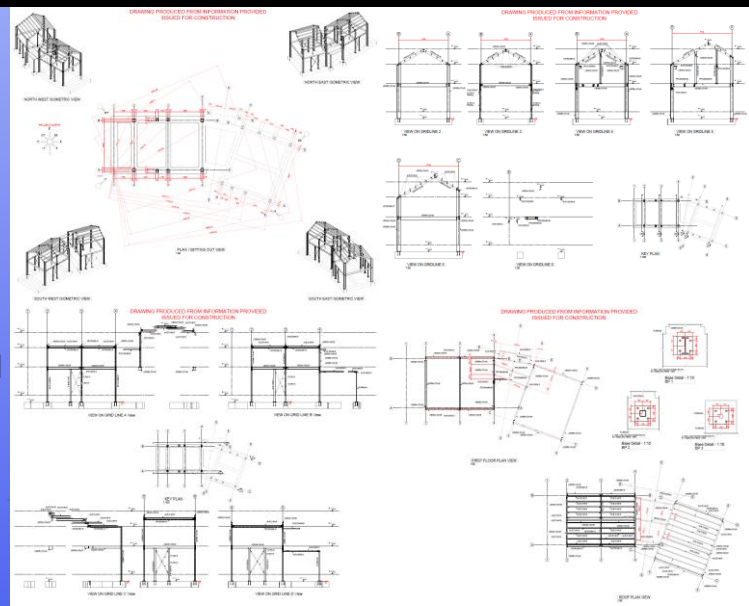
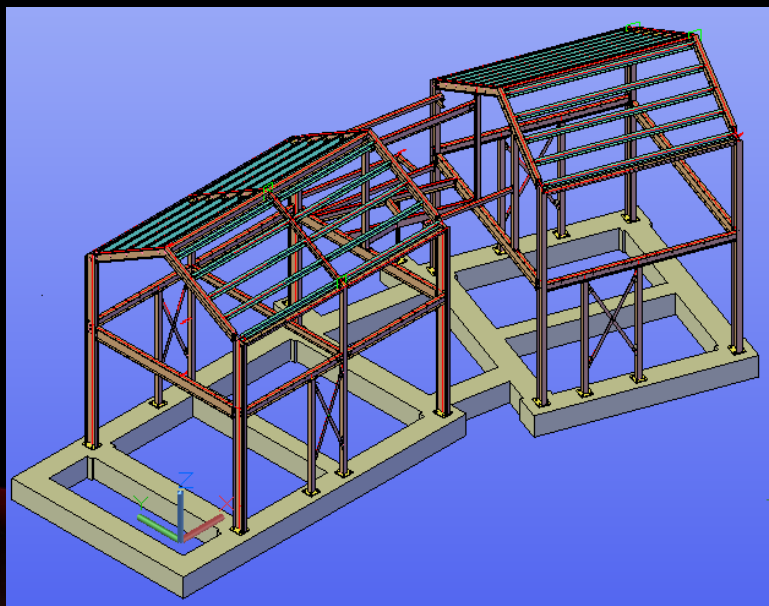
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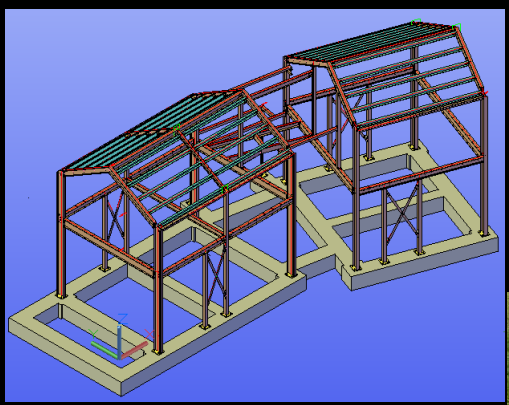
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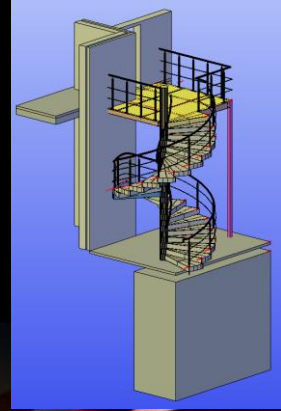
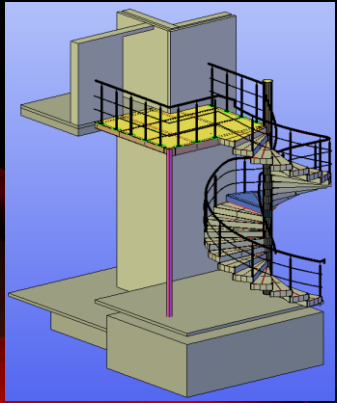
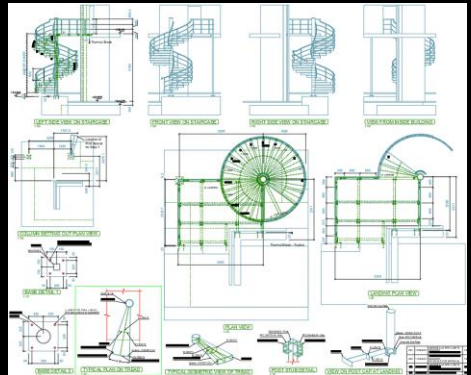
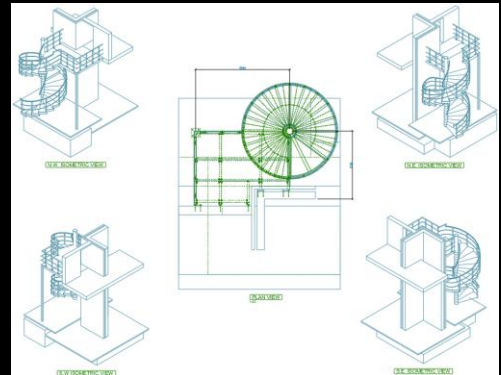
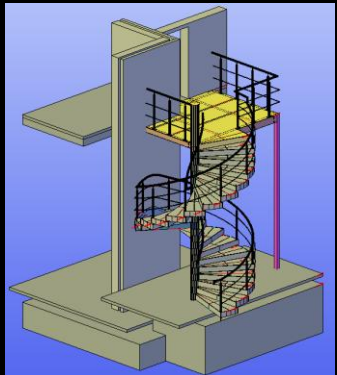
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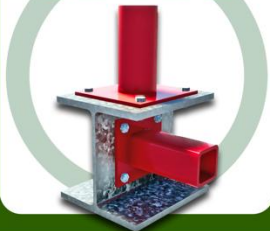
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3 Spiral Staircases.

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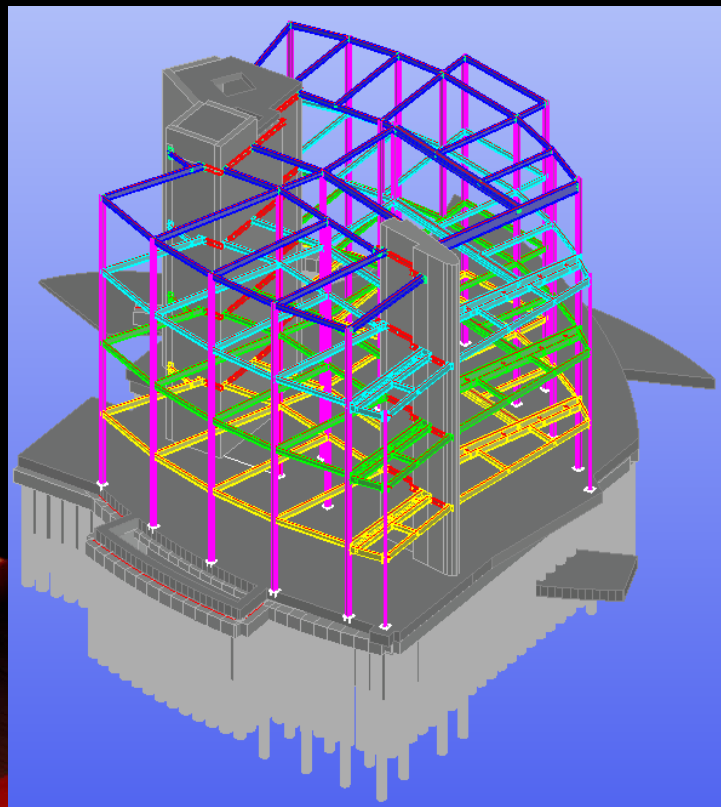
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DRAWING PRODUCED FROM INFORMATION PROVIDED

<p style="text-align: center;">(FRONT LEFT VIEW)</p>	<p style="text-align: center;">(FRONT RIGHT VIEW)</p>
<p style="text-align: center;">(BACK LEFT VIEW)</p>	<p style="text-align: center;">(BACK RIGHT VIEW)</p>

BUILT FOR CONSTRUCTION



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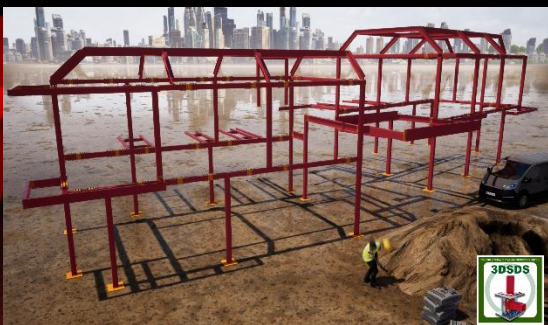
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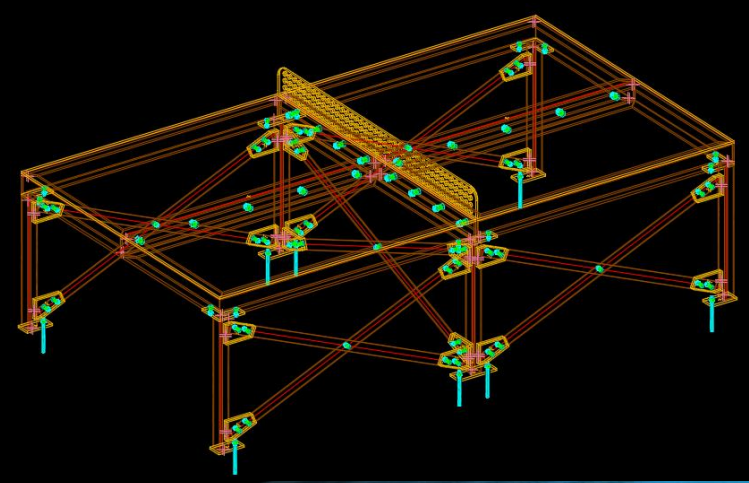
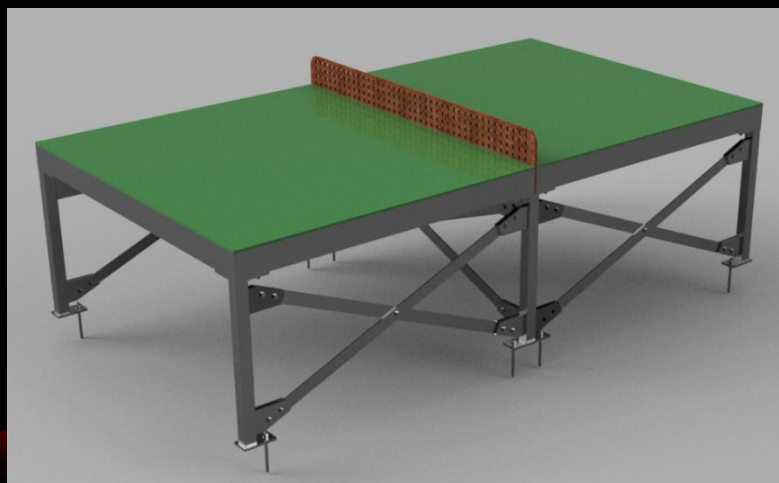
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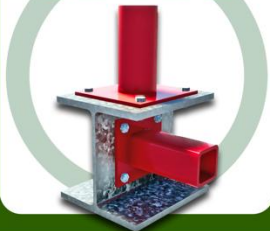
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NOT THE NORMAL STEEL STRUCTURE

We recently got asked to model and generate the fabrication details for this Ping Pong Table for an office recreation room. Modeled in Advance Steel and Rendered using blender. – Modeled, drawings created and out the door in less than 2 Hours.



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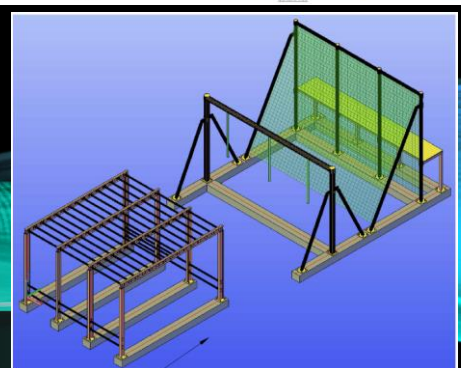
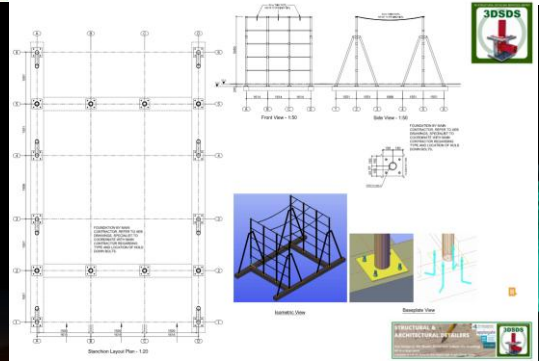
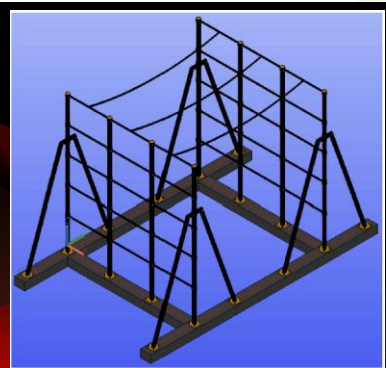
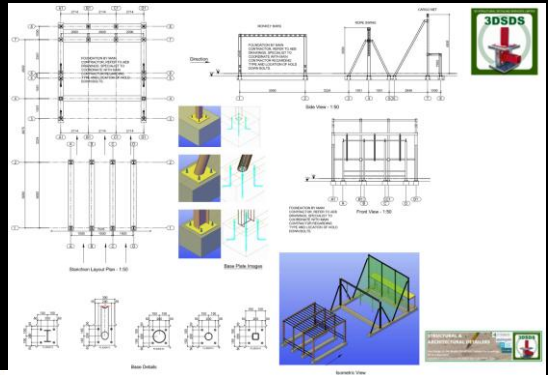
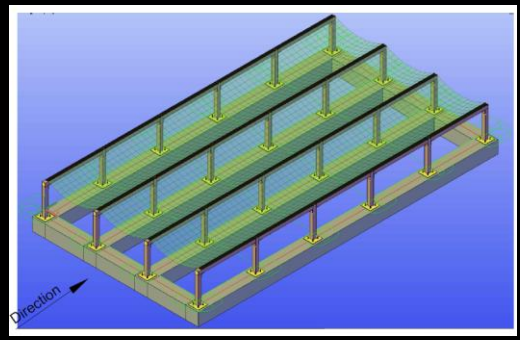
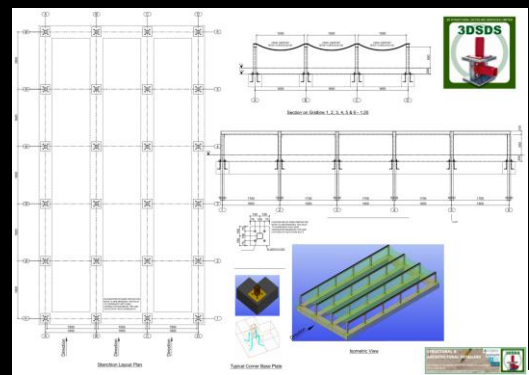
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NOT THE NORMAL STEEL STRUCTURE – Part 2

We recently got asked to model and generate the fabrication details for these Obstacles. Modeled in Advance Steel.





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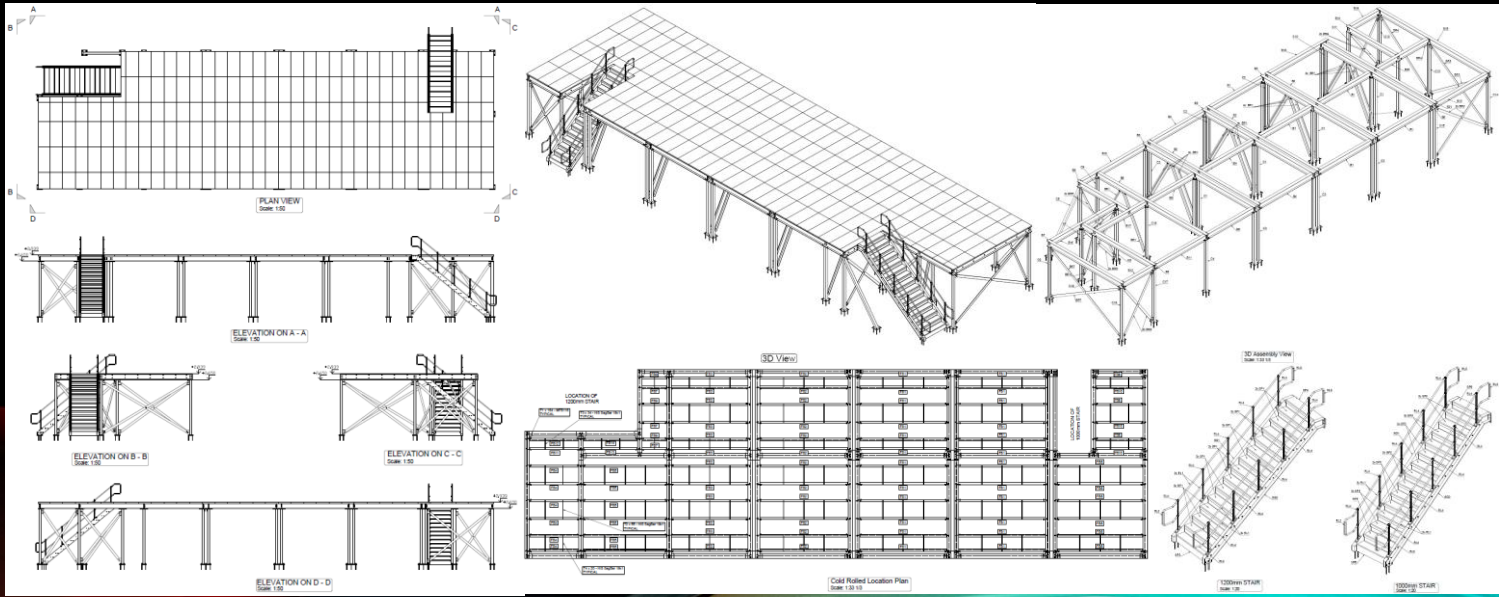
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NEED EXTRA ROOM

We have recently been asked to model and generate the fabrication details of a mezzanine floor. The Mezzanine floor has been designed to 4.8kN/m² – Light Storage as indicated in BS 6399 - Part 1. All drawings with Structural Engineer. Mezzanine Handrail by others.





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NEED EXTRA ROOM – cont.

Images of the Installed Mezzanine Floor.





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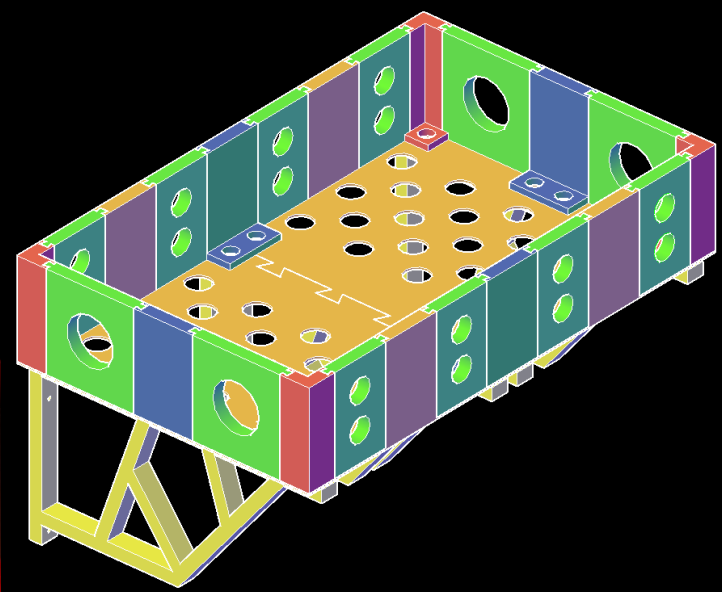
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VEGETABLE CONTAINER – 3D PRINTED

We recently got asked to model and 3D print a vegetable container for a client on the Isle of Wight. It had to be wall mounted and had to be easily dismantled if necessary - so after various designs we produced this one that the client liked, and all parts were 3D Printed:- Brackets, Base, Corners, Infills and most of all Nuts and Bolts.
Easily assembled using the 3D Printed Nuts and Bolts.





STRUCTURAL & ARCHITECTURAL DETAILERS

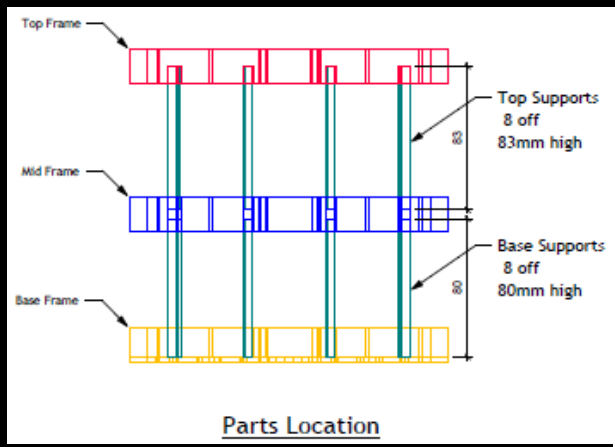
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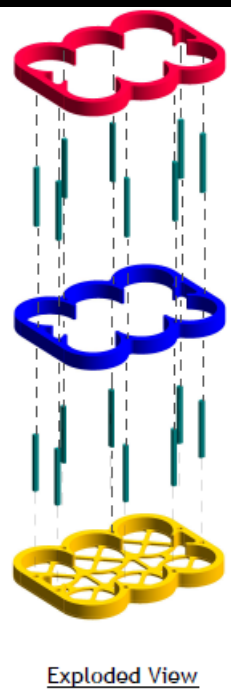
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12 CAN ORGANISER – 3D PRINT

We recently got asked to model and 3D print a 12 Can Organiser for a company called "And That's the Wrap" located on the Isle of Wight. This organiser was to keep the Cans stored together with a space in between the cans for an Ice Pack to keep them chilled in a cool bag.



Parts Location



Exploded View



Assembled Unit



And That's A Wrap are a mobile catering unit that specializes in hot and cold fresh wraps. They are located on Seaview Road in Cowes and can be booked for private events.

**And That's a Wrap
Mobile Caterers
07881 707770**



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NEW SERVICE ANNOUNCEMENT **"ONE STOP SHOP"**

We are proud to announce that as of 05/06/2023 we can now offer a new service, Fabrication, Delivery, and Installation.
Are you paying 3 Companies to get your Project built:-

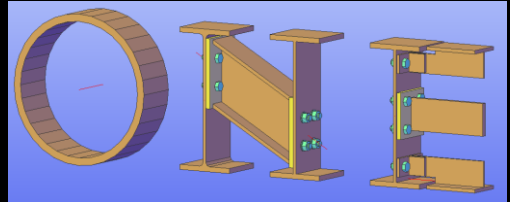
1. The Detailer, 2. The Fabricator, 3. The Delivery & Installation Team, Do you just want 1 Invoice for the lot, if the answer is "YES", 3DSDS can now offer the One Stop Shop for your 3D Modelling, Detailing, Fabrication, Delivery, and Installation needs.

This is how it works: -

1. Send over your Project information including the Structural Engineers Calculations and Connection Details.
2. We send you a quote for the 3D Modelling and Detailing Work, Steelwork needed for your Project, Fabrication, and Delivery and Installation Costs.
3. You sign the documents, and we start on your Project as soon as possible.

What will you get:-

- 3D Online Viewer Link so you can look around your Project.
- GA's showing Isometric Views and Plan of Structure, Elevations, Sections etc
- Assembly Drawings
- Single Part Drawings
- BOM Lists (Bill of Materials)
- NC & NCDXF Files for CNC Machining



All Fabrication Documentation will Identify you as the owner because this will include your Company Logo as standard. If this is something, you need, then please feel free get in touch.

ALL GENERATED WITH YOUR LOGO IDENTIFYING YOU AS THE OWNER ON ALL INFORMATION



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NEW SERVICE ANNOUNCEMENT

We are proud to announce that as of 21/08/2023 we can now offer a New Service - LASER CUTTING & ENGRAVING.
"ENGRAVING SERVICES"
"CUTTING SERVICES"

ENGRAVING SERVICES

Materials we can engrave on:-
Wood, Metal, Acrylic, Slate, Cork, Leather, Drinking Bottles, Glass

CUTTING SERVICES

Materials we can Cut out:-
Wood, Acrylic, Card, Cork, Leather, PU Heat Transfer Vinyl (T-Shirts), Self-Adhesive Vinyl (Car Stickers)



ONLY AS GOOD AS THE INFORMATION PROVIDED