

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 create 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 2024, 2025, 2026

Advance Steel – Versions 2024, 2025, 2026

Revit – Versions 2024, 2025, 2026

Twinmotion

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Services:

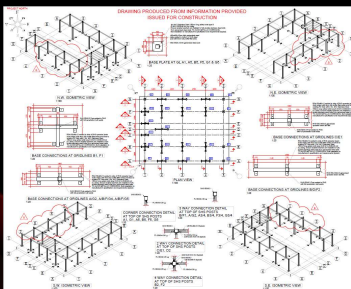
- 2D Draughting Services
- 3D Modeling & Detailing Draughting Services
- CAD Training – AutoCAD & Advance Steel
- Technical Support – AutoCAD & Advance Steel
- Landscape Design
- Rendered Visuals & Videos

Software:

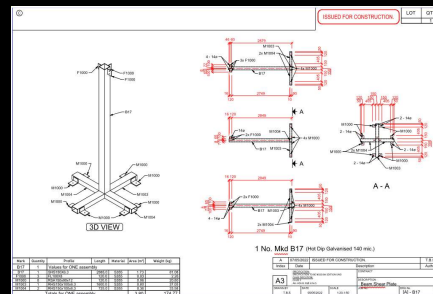
AutoCAD 2024 to 2026
Advance Steel 2024 to 2026
Revit 2024 to 2026
Twinmotion

CONTACT NOW

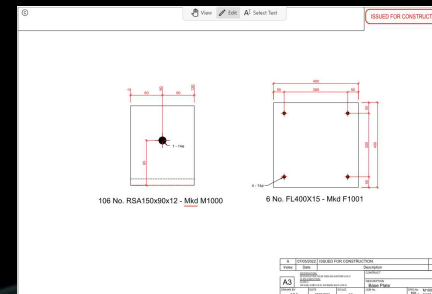
GAs – PDF Format



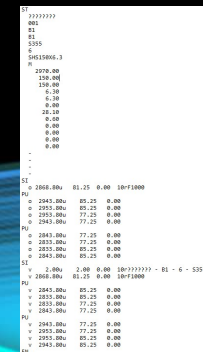
Assemblies – PDF Format



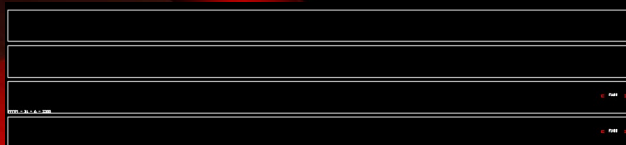
Single Parts – PDF Format



NC Files - .nc



NCDXF - nc.dxf format – CAD file



BOMs – (Bill of Materials)

BOM LIST									
Date: 05-May-2022									
Project: BL 1									
Author: T.B.S									
Size	Length	Grade	Coating	Quantity	Type	Weight each (kg)	Total Weight (kg)	Total Description	
M12 x 160 x 6 x 6 - Bright Zinc Plated	20	S10	Bright Zinc	12	X0X	0.1	1.2		
M12 x 160 x 6 x 6 - Bright Zinc Plated	30	S10	Bright Zinc	130	X0X	0.1	13.0		
M12 x 160 Flange F20 A4 - Bright Zinc	144	A4	Bright Zinc	130	Flange F20	0.0	2.3		
				130			2.3		
				224			32.3		

MATERIAL LIST									
Date: 05-May-2022									
Project: BL 1									
Author: T.B.S									
Mark	Size	Quantity	Grade	Length (mm)	Width (mm)	Weight each (kg)	Total Weight (kg)	Surface Area (m²)	Total Description
Straight Beams									
B1	S45100x6.3	6	S355	2,970	63.5	500.8	1,782	10.692	
B2	S45100x6.3	5	S355	2,730	63.5	477.5	1,776	9.881	

Assembly List									
Date: 05-May-2022									
Project: BL 1									
Author: T.B.S									
Mark	Quantity	Size	Grade	Length	Weight (kg)				
B1	3	S45100x6.3	S355	2,970	243.23				
B2	5	S45100x6.3	S355	2,730	238.75				
F1000	16	FL1000x12	S355	120	48.80				
M1000	3	PM1000x100x6.3	S355	1,900	132.00				

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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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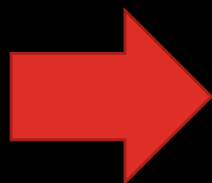
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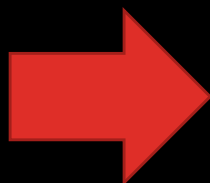
STAGES OF WORK

STEP 1



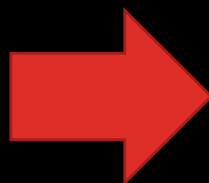
Clients request a
Quotation from
provided
information

STEP 2



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

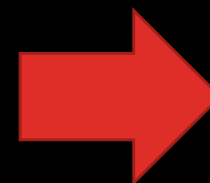
STEP 3



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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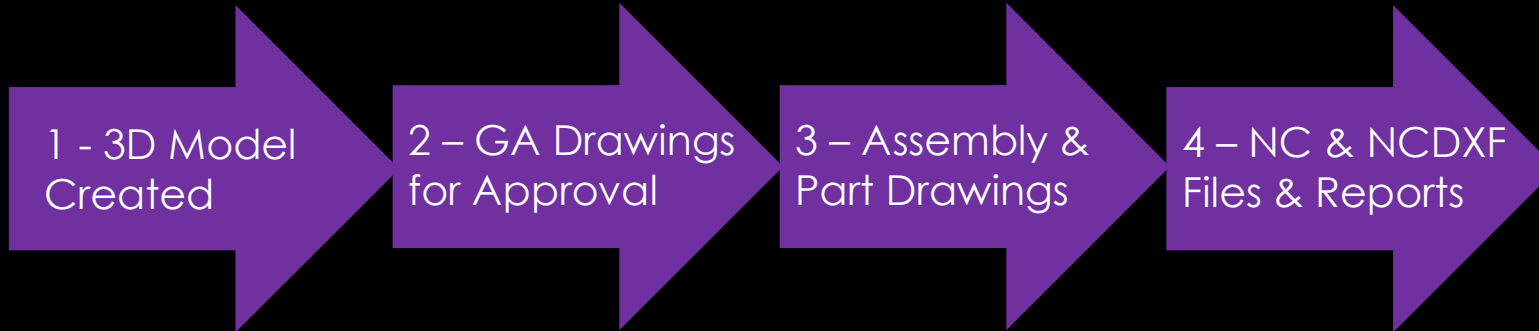


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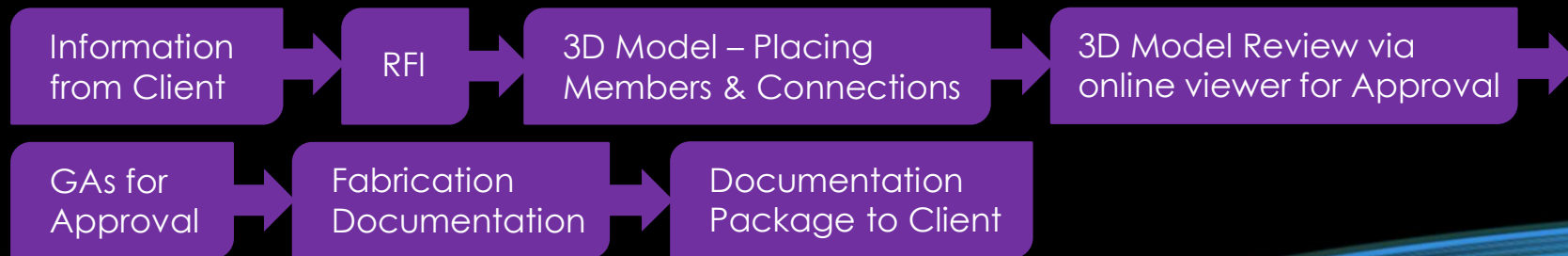
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DETAILING SERVICES



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

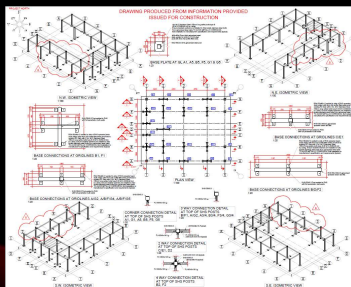
Assemblies – PDF Format

Single Parts – PDF Format

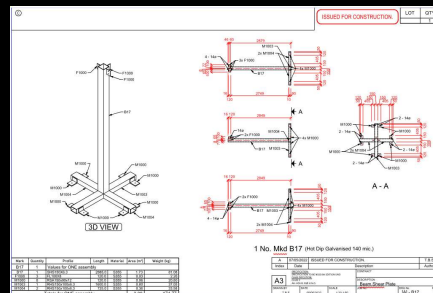
NC & NCDXF - .nc Format & .nc.dxf Format

BOMs – (Bill of Materials) – Bolt List, Material List, Assembly List, Loading List.

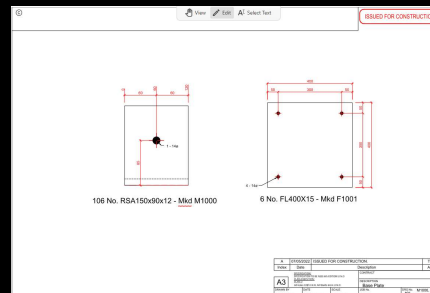
GAs – PDF Format



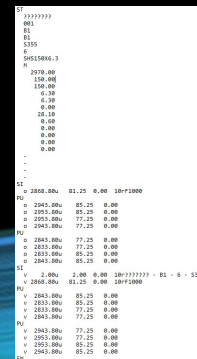
Assemblies – PDF Format



Single Parts – PDF Format



NC Files -
.nc Format



NCDXF - nc.dxf format – CAD file



BOMs – (Bill of Materials)

BOLT LIST									
Date: 04 May 2022									
Project: BU 1									
Author: T.B.S									
Mark	Size	Quantity	Grade	Length (mm)	Width (mm)	Weight (kg)	Total Weight (kg)	Surface Area (m²)	Total Description
B1	S455	6	S455	2,970	83.5	500.8	1,782	10.680	6 S455 2,970 83.5
B2	S455	5	S455	2,730	43.5	217.5	1,087.5	6.881	5 S455 2,730 43.5
Total									
		11				718.3	2,870	17.561	

MATERIAL LIST									
Date: 04 May 2022									
Project: BU 1									
Author: T.B.S									
Mark	Size	Quantity	Grade	Length (mm)	Width (mm)	Weight (kg)	Total Weight (kg)	Surface Area (m²)	Total Description
B1	S455	6	S455	2,970	83.5	500.8	1,782	10.680	6 S455 2,970 83.5
B2	S455	5	S455	2,730	43.5	217.5	1,087.5	6.881	5 S455 2,730 43.5
Total									
		11				718.3	2,870	17.561	

Assembly List					
Contract File: Detail\Contract.mtl					
Client: SP			Job No: 1		
Contract: BU 1					
Detailer: T.B.S					
Mark	Quantity	Size	Grade	Length	Weight
B8	3	S455150X6.3			428.8
B8	3	S455150X6.3	S155	2,885	243.2
F1000	9	FL10008	S155	120	6.7
M1000	18	RS4150X90412	S155	120	48.8
				2,970	250.8

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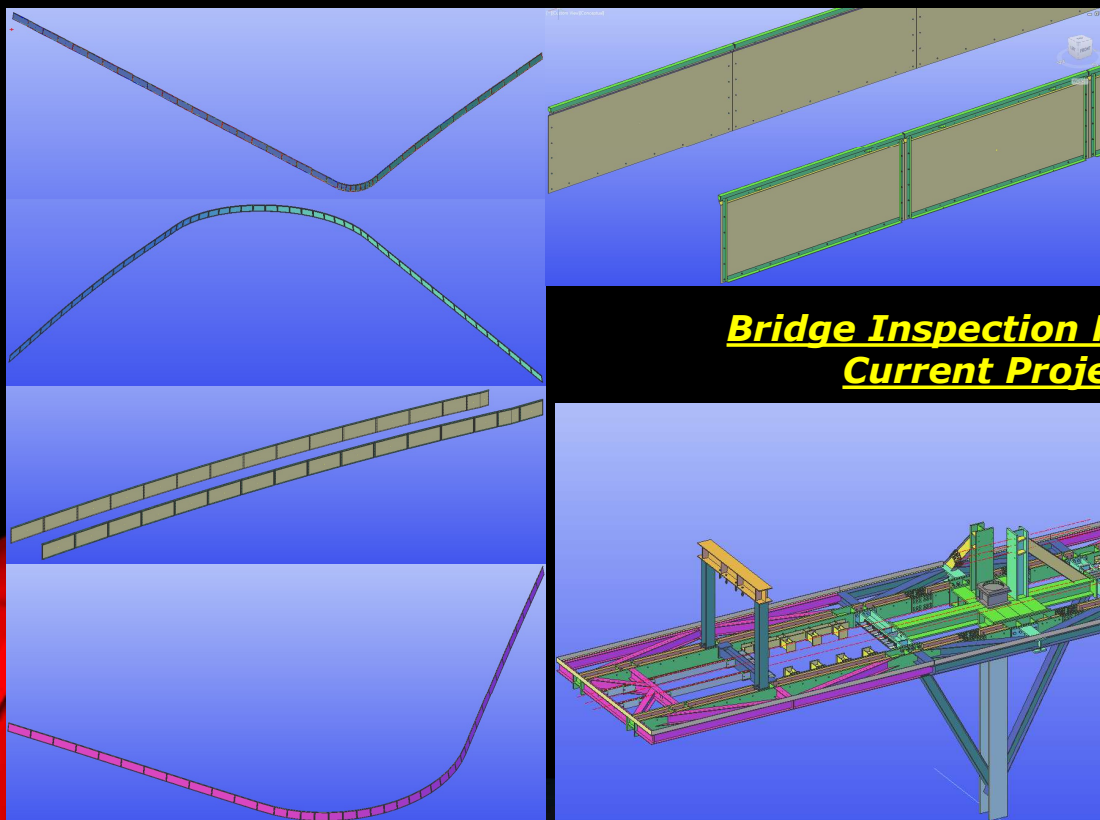
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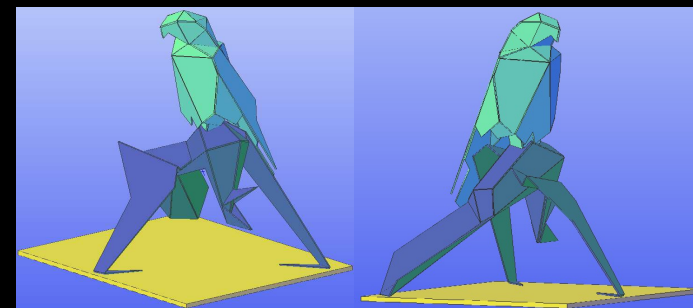
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WHAT A BUSY FEW MONTHS

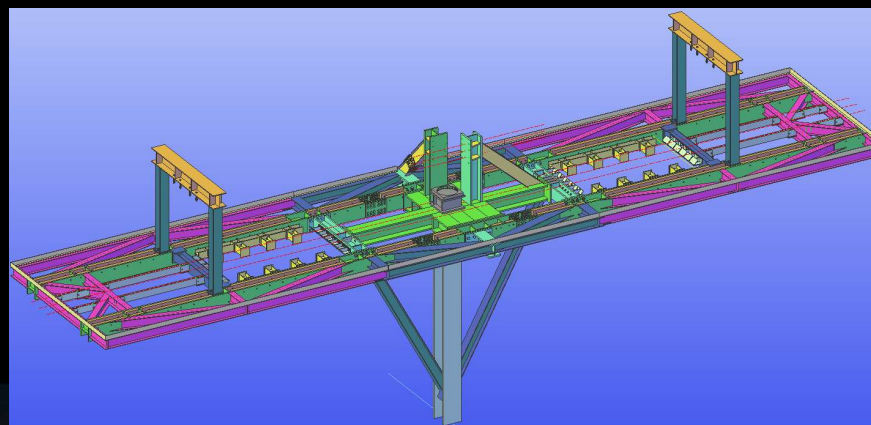
Replacement of Bridge Handrailing – 4 Sections



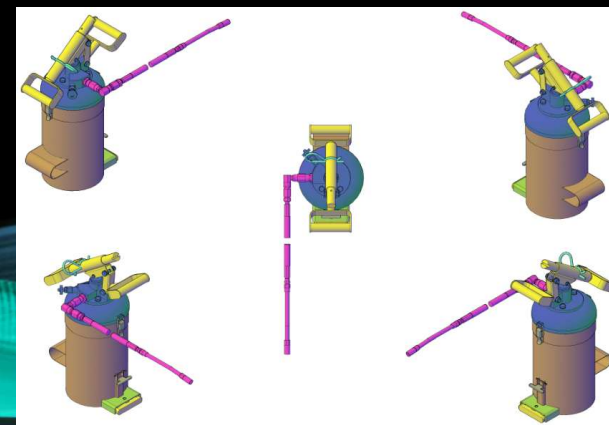
Abstract Sculpture



Bridge Inspection Platform Current Project



Lubricating Grease Pot



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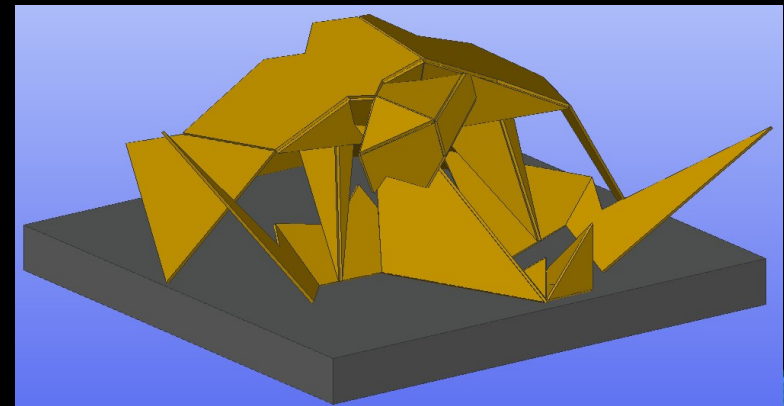
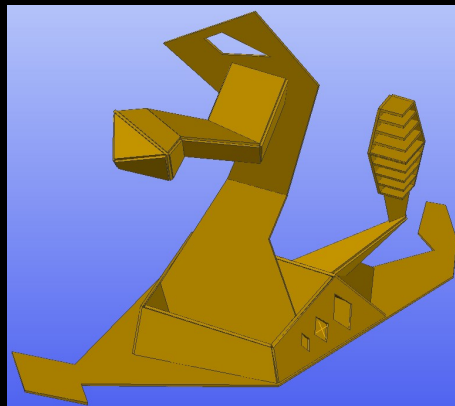
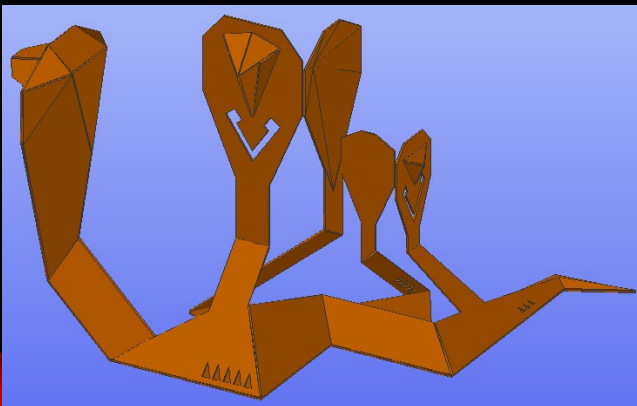
ABSTRACT SCULPTURES

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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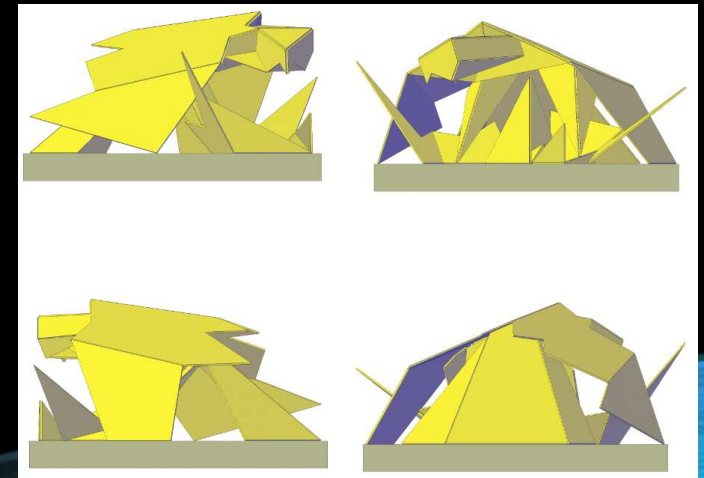
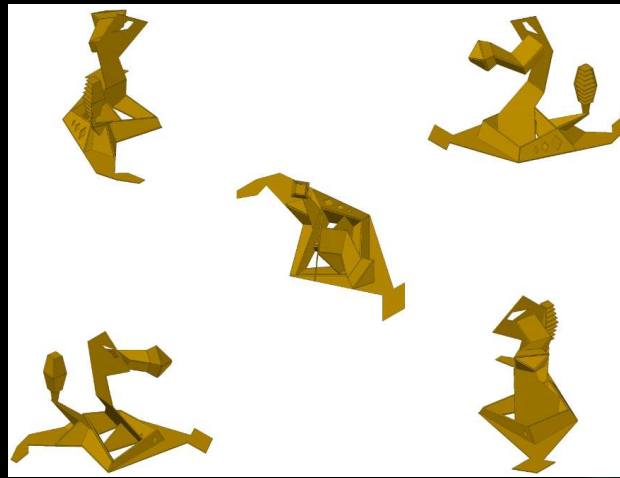
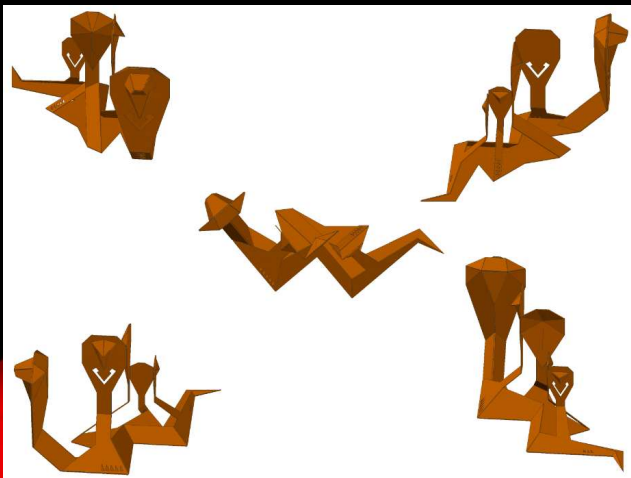
ABSTRACT SCULPTURES OUT FOR FABRICATION

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

Sculptures:-

1. Cobras
2. Rattle Snake
3. Goshawk

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



Software used – Advance Steel 2023

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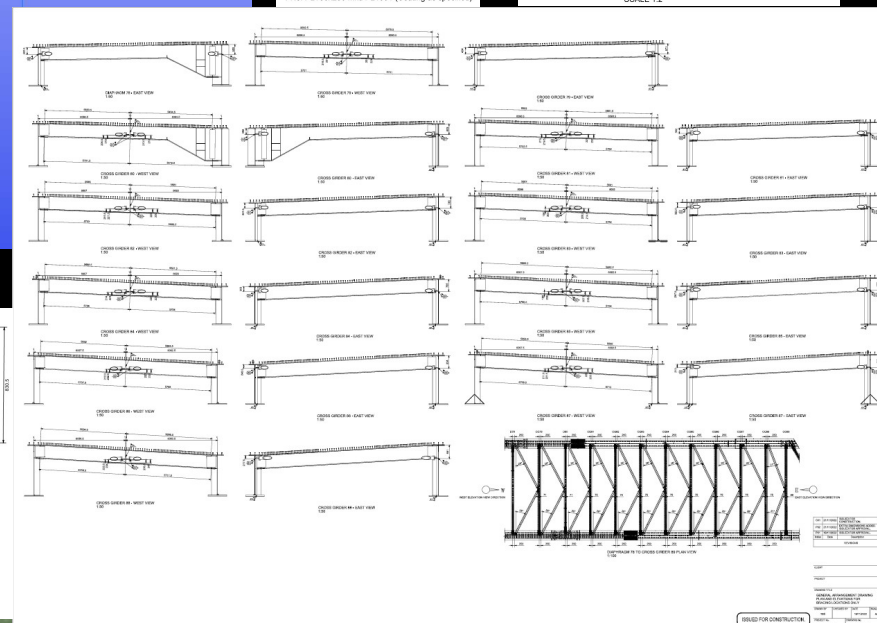
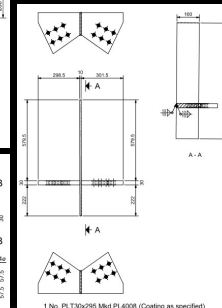
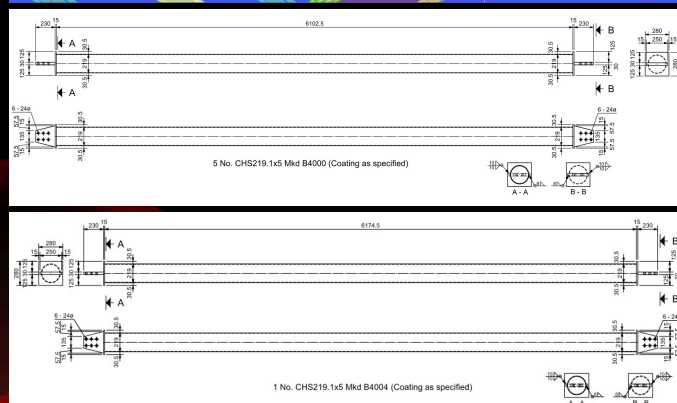
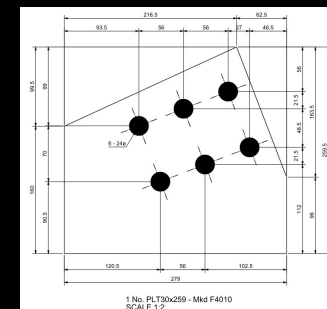
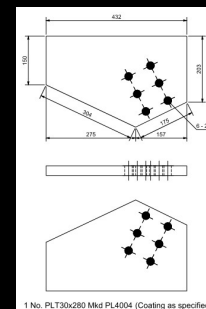
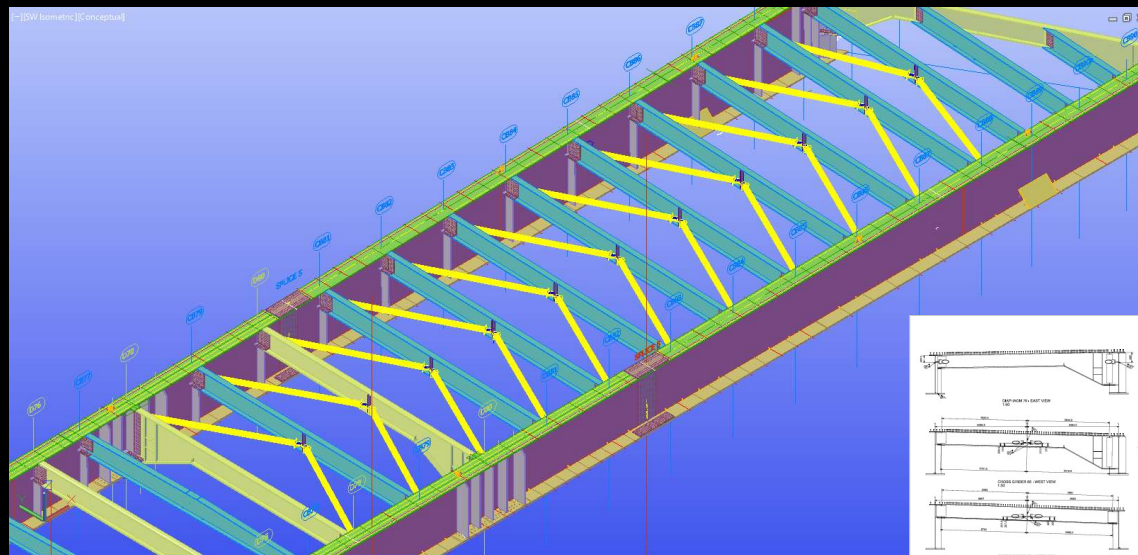
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BRIDGE BRACING OUT FOR FABRICATION



Software used – Advance Steel 2021 – NOVEMBER 22 – AS PER CLIENTS REQUEST

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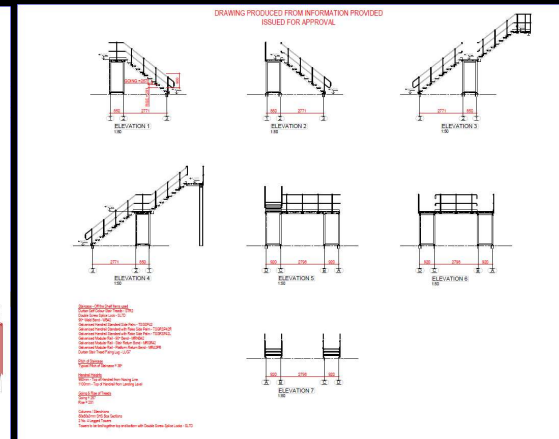
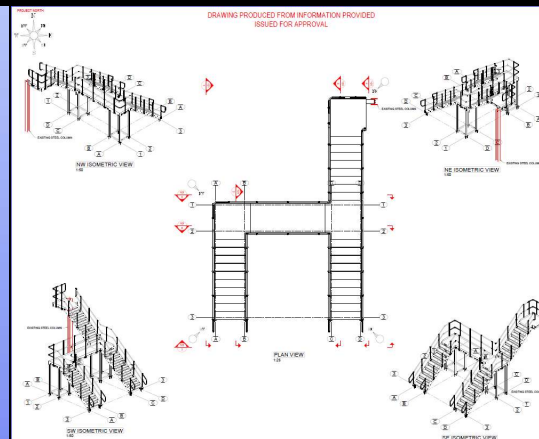


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WALKWAY STAIRS & RAILINGS OUT FOR FABRICATION



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

Software used – Advance Steel 2022 – AUGUST 22

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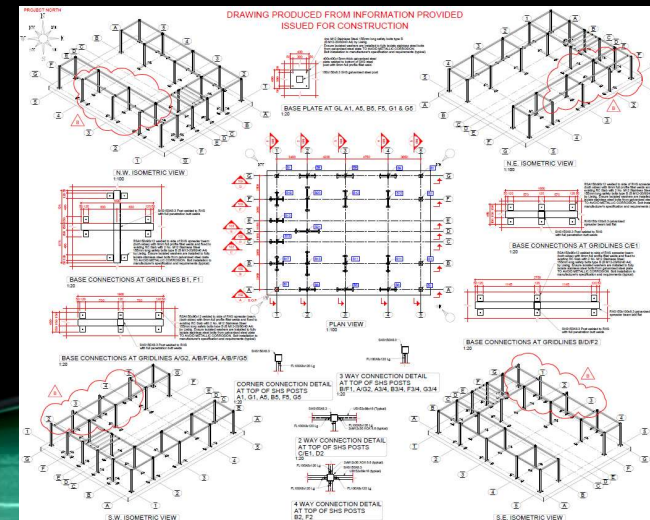
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FINISHED PROJECT PHOTOS



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.



Software used – Advance Steel 2022 – MAY 22

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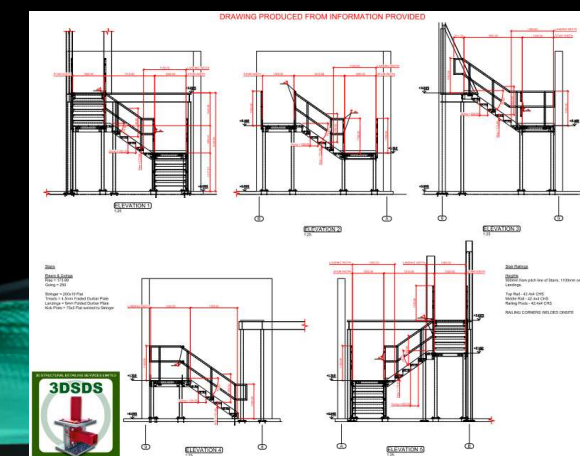
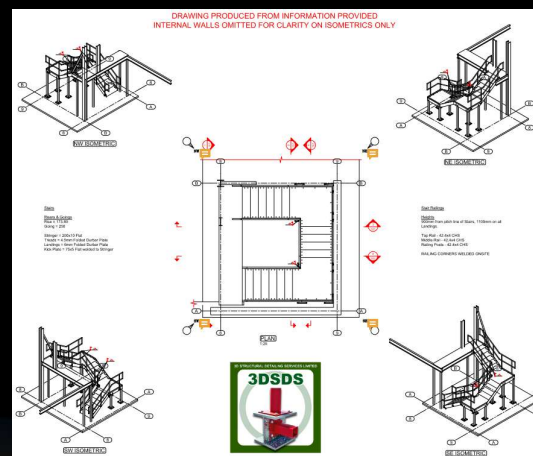
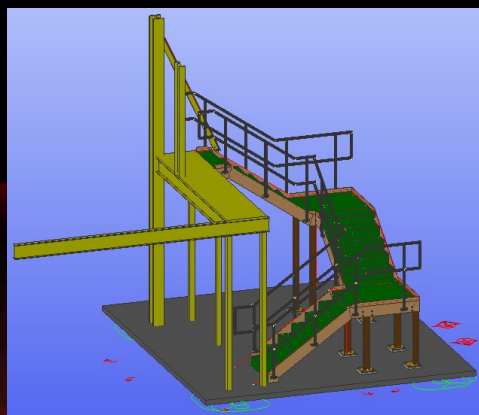
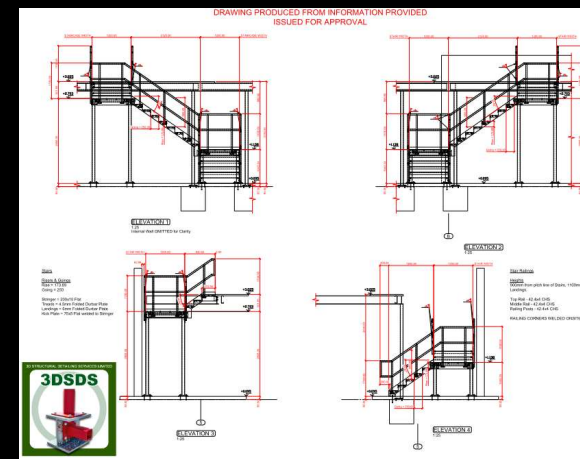
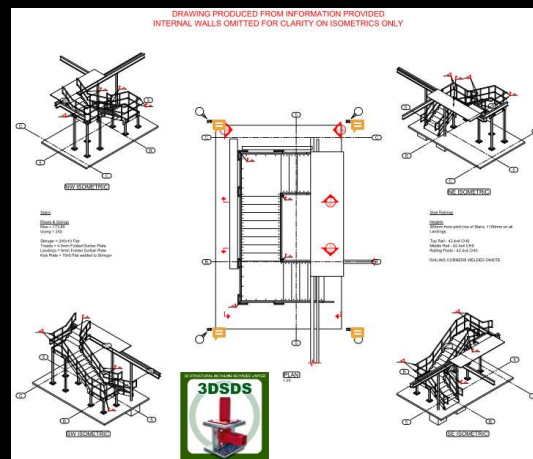
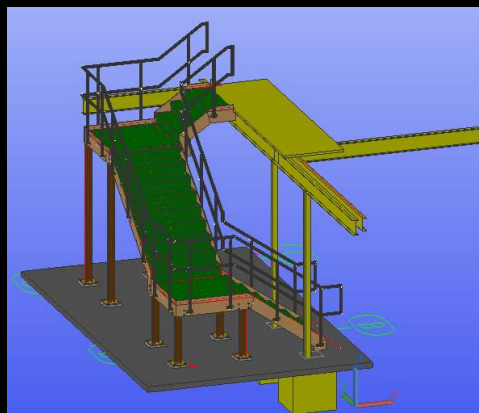
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SET OF STAIRS & RAILINGS OUT FOR FABRICATION



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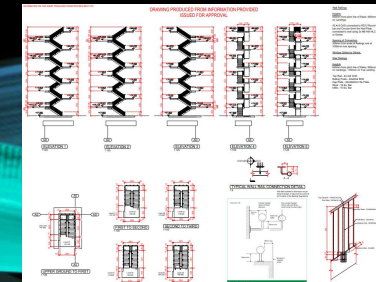
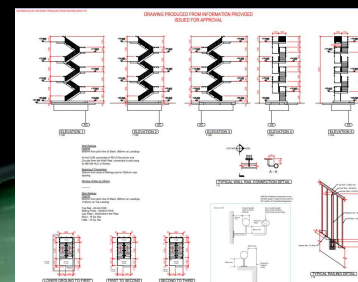
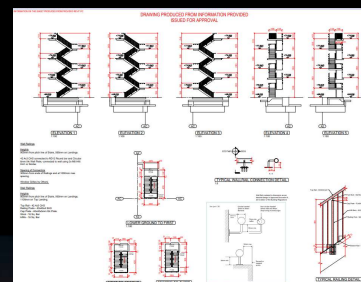
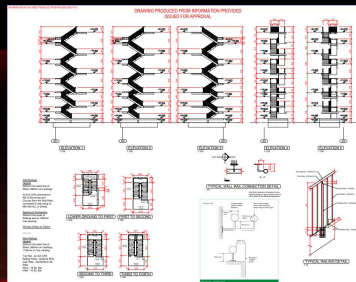
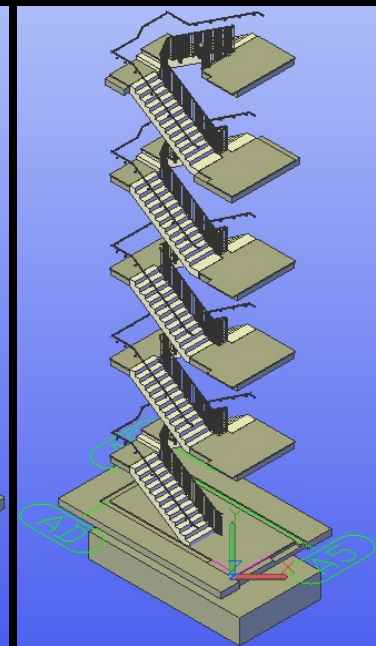
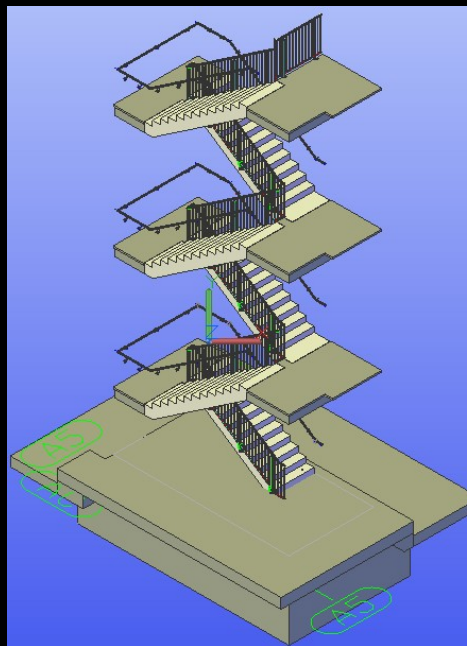
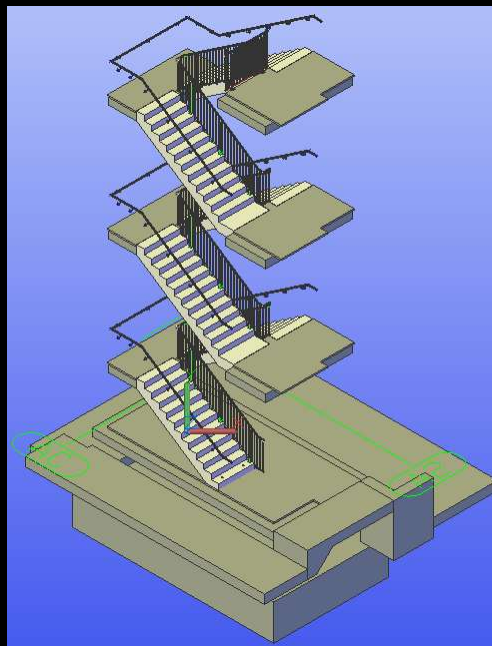
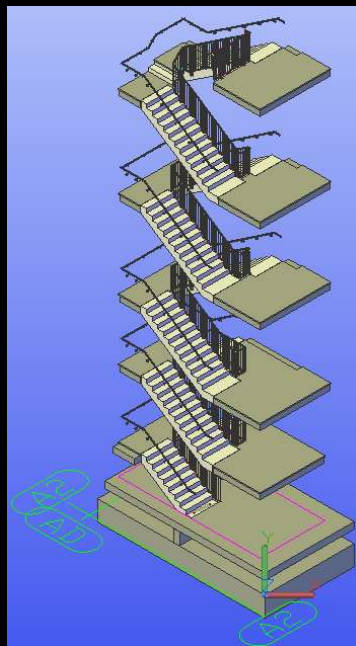


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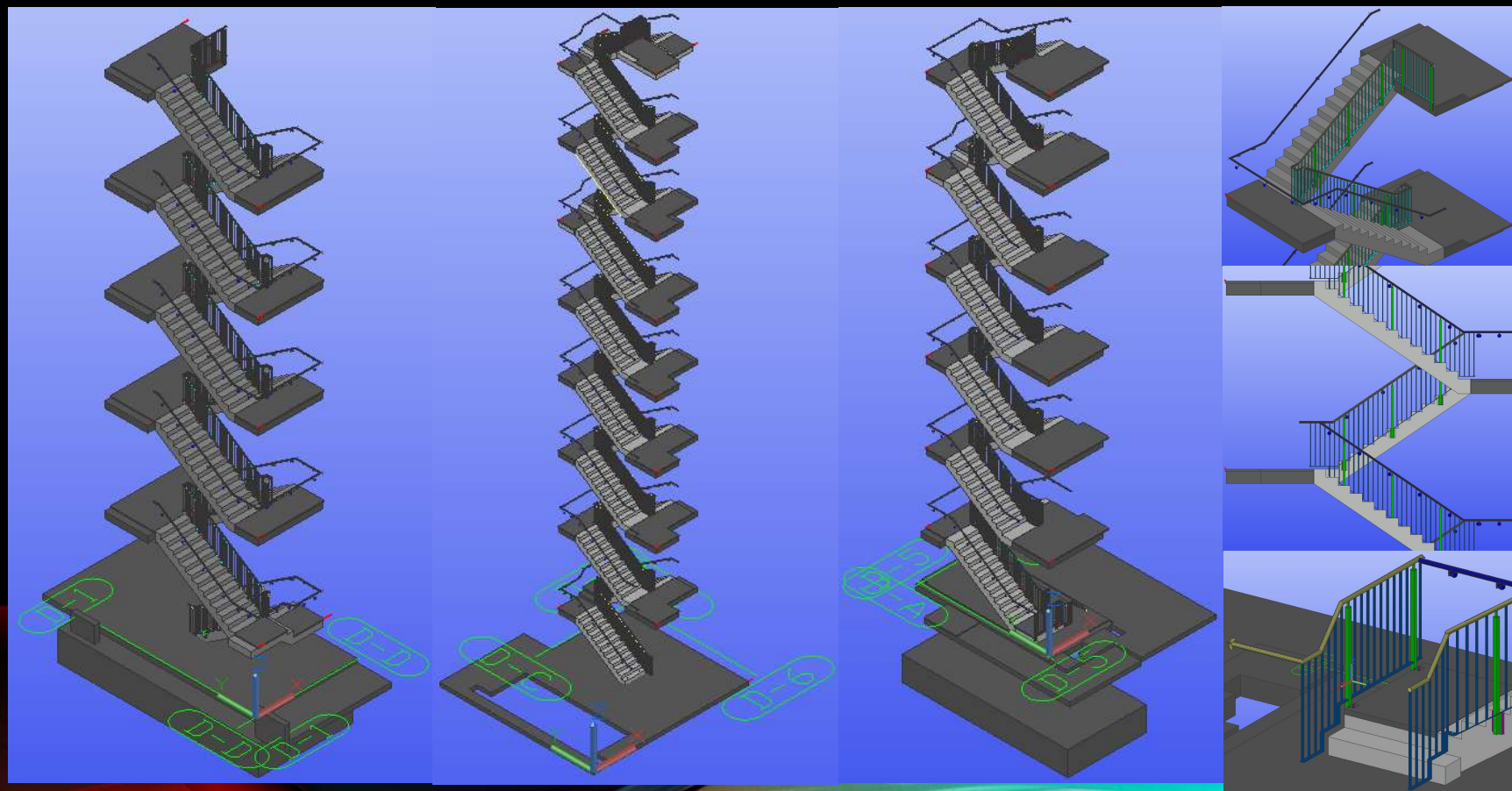


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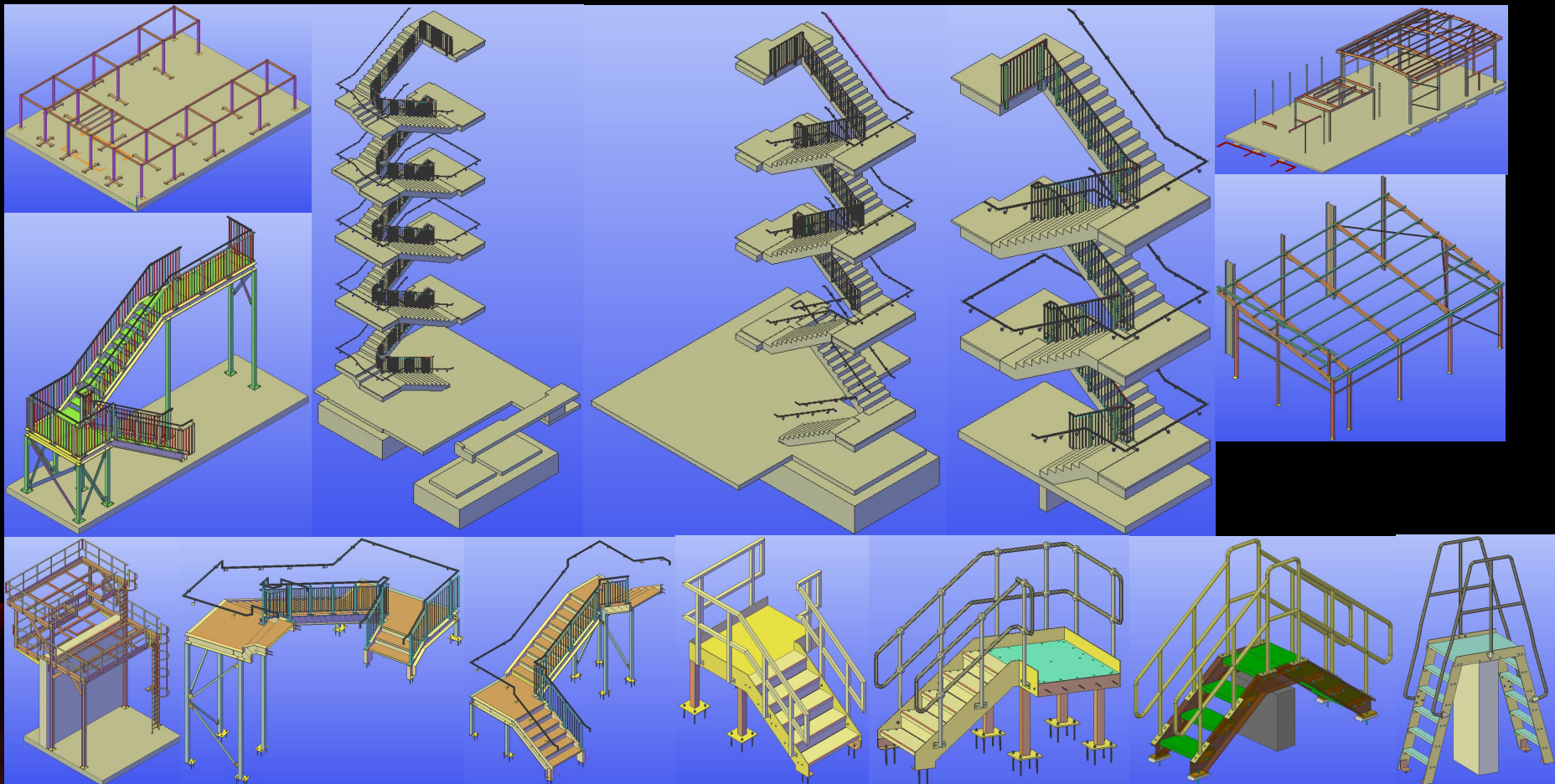


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BUSY FIRST 5 MONTHS OF 2022



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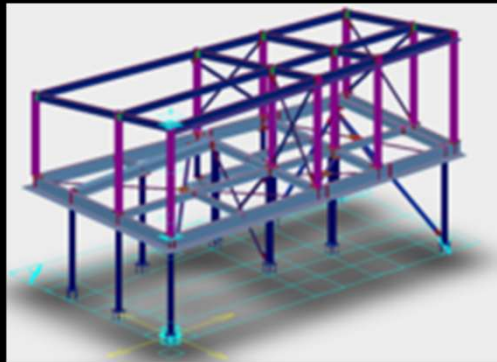


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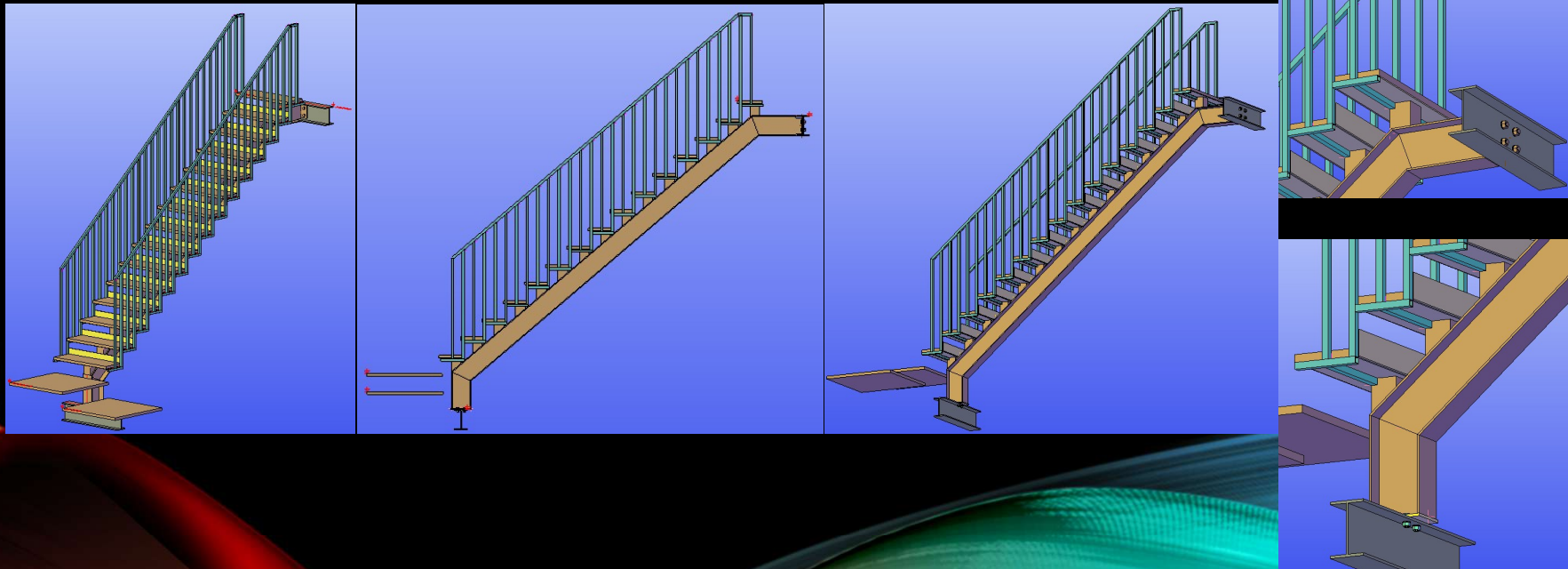


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Rendered video can be watched here - <https://youtu.be/rqdaHLKeKyo>

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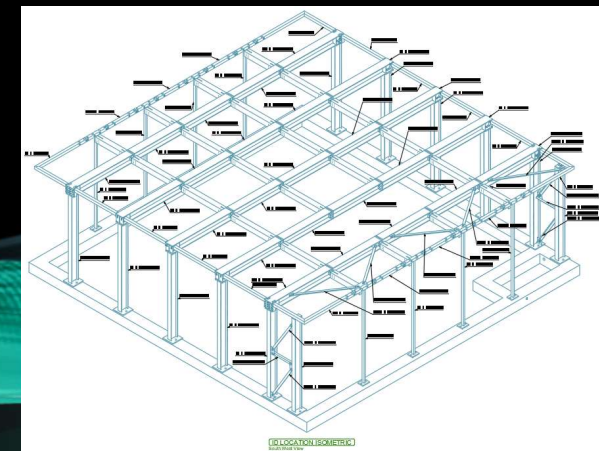
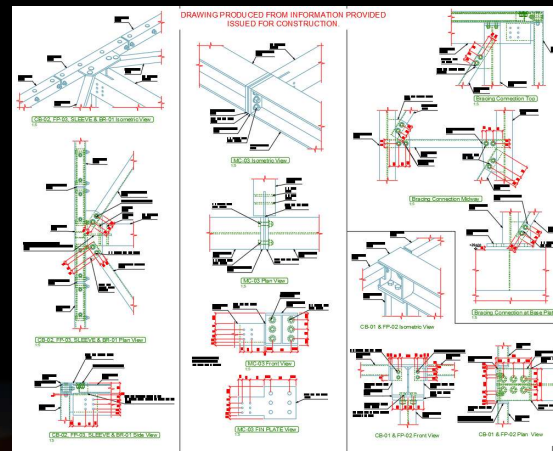
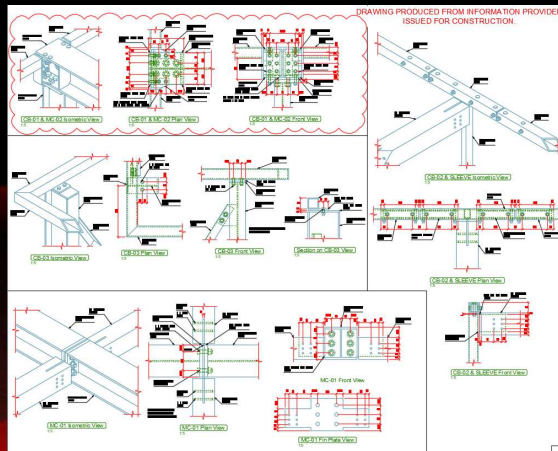
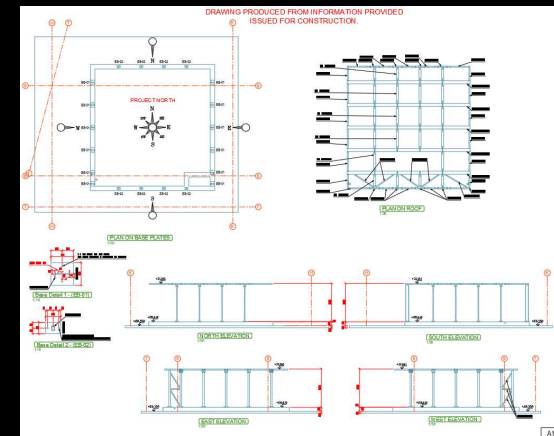
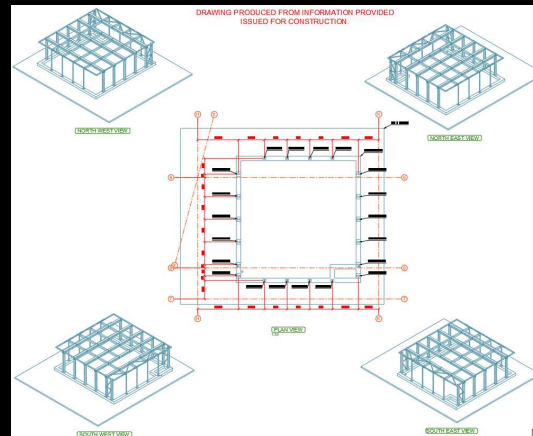
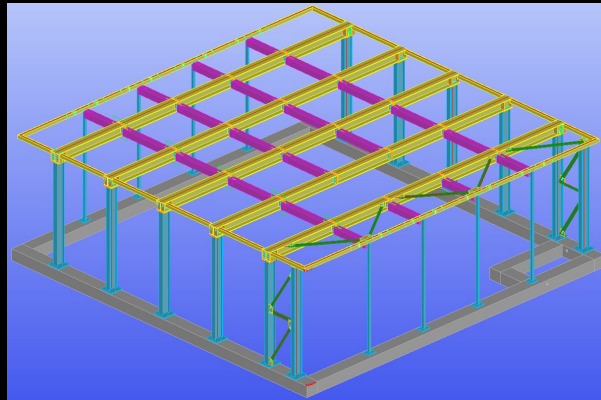


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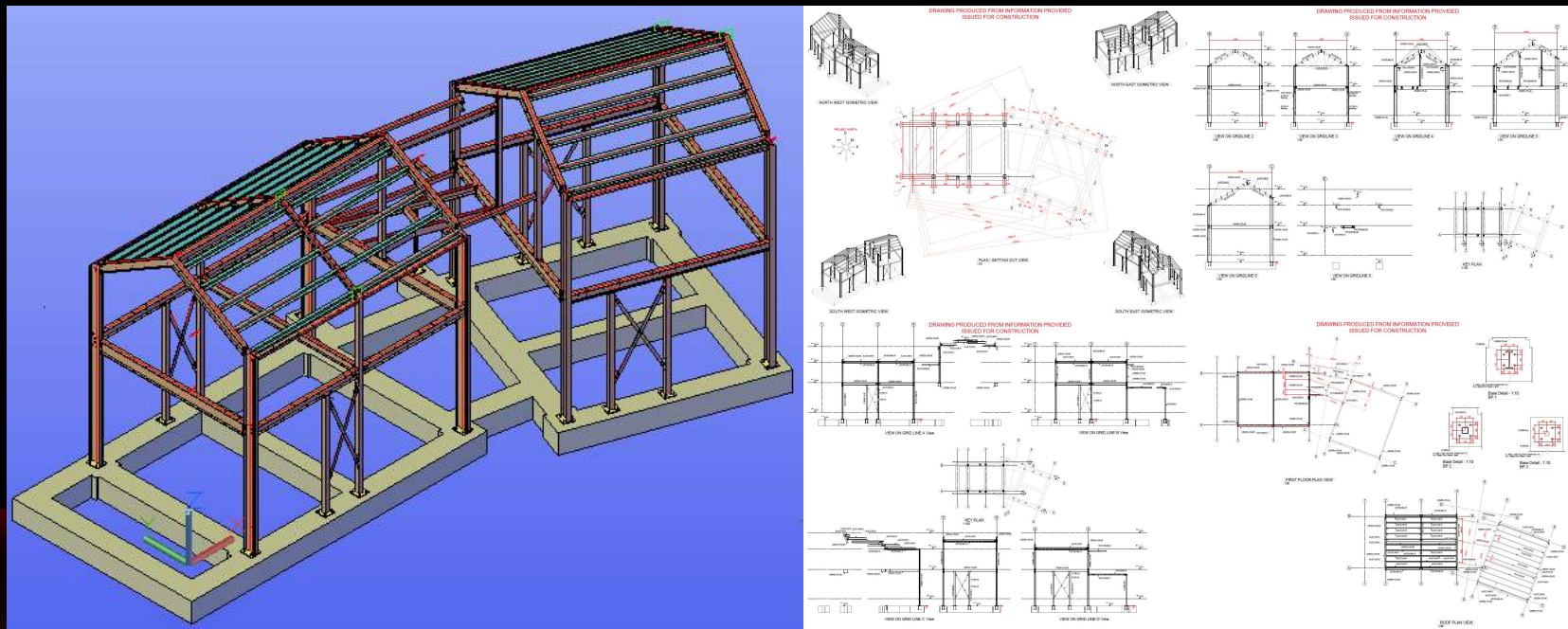


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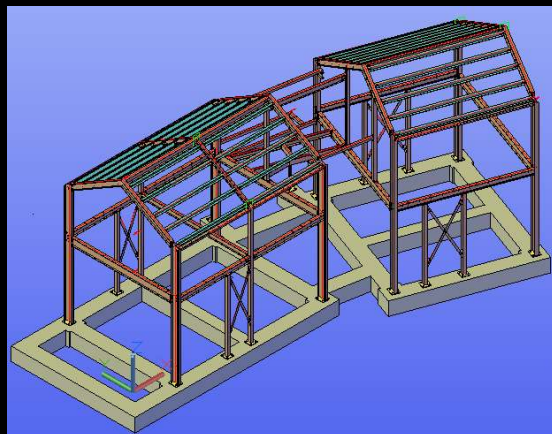


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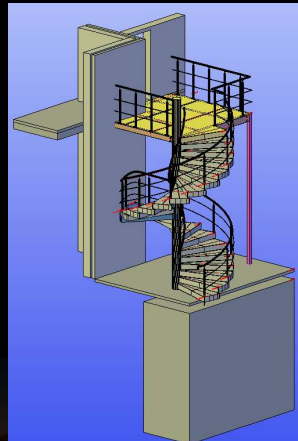
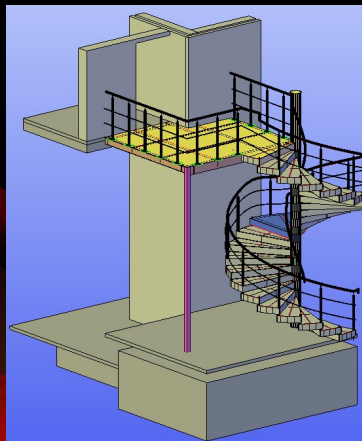
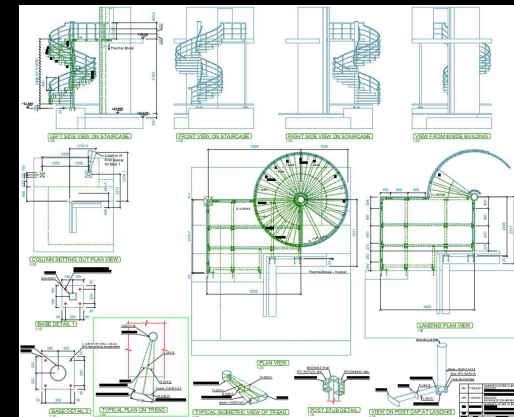
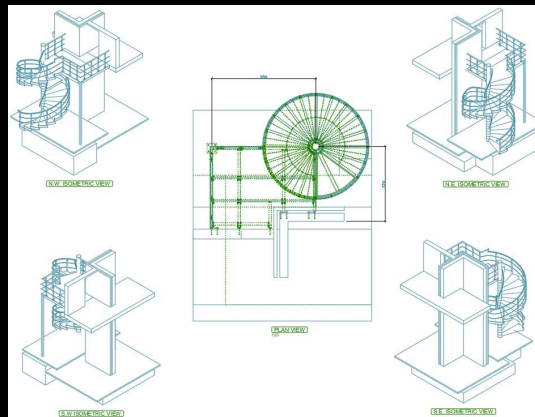
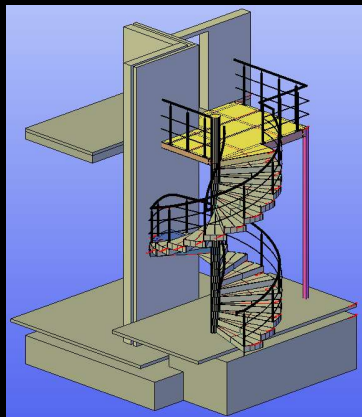


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3 Spiral Staircases.

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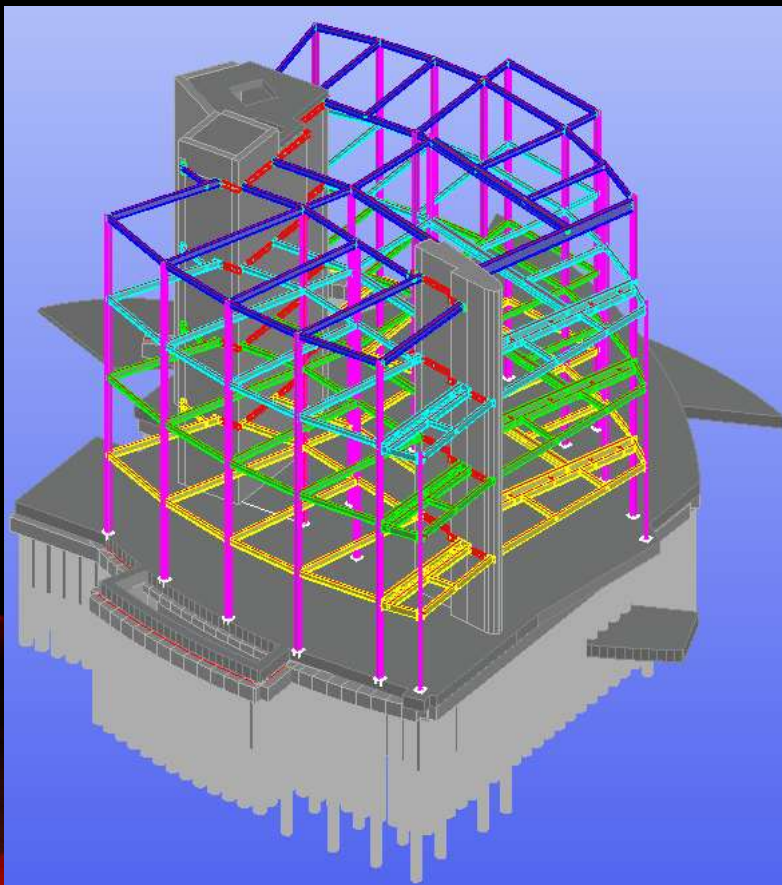


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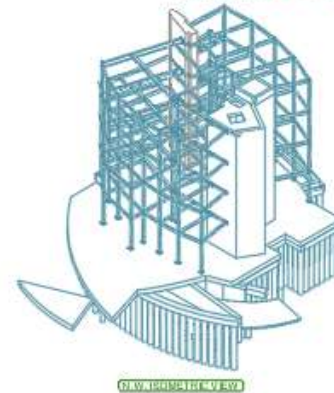
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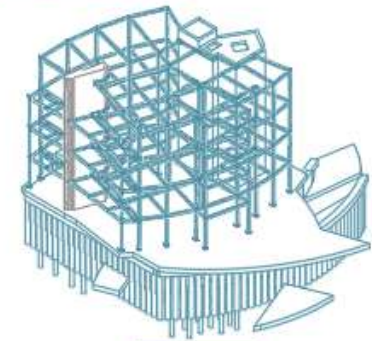
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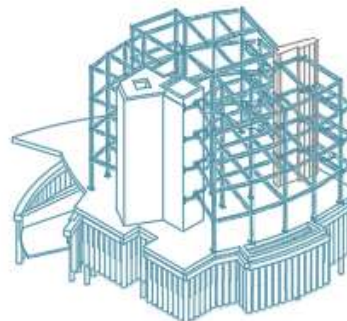
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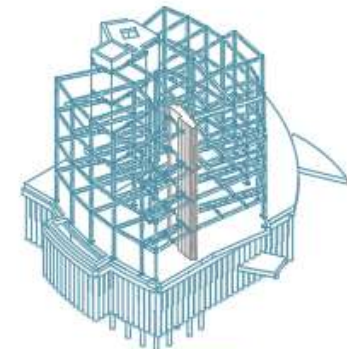
3D WIREFRAME MODEL



3D WIREFRAME MODEL



3D WIREFRAME MODEL



3D WIREFRAME MODEL

READY FOR CONSTRUCTION

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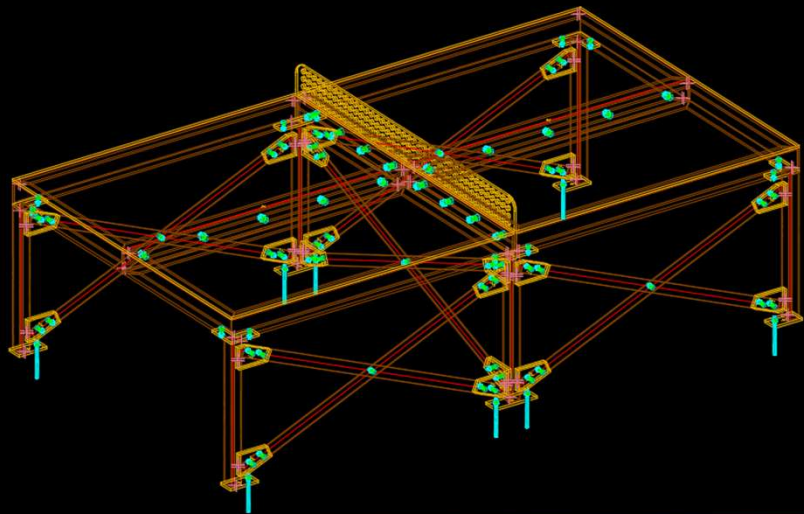
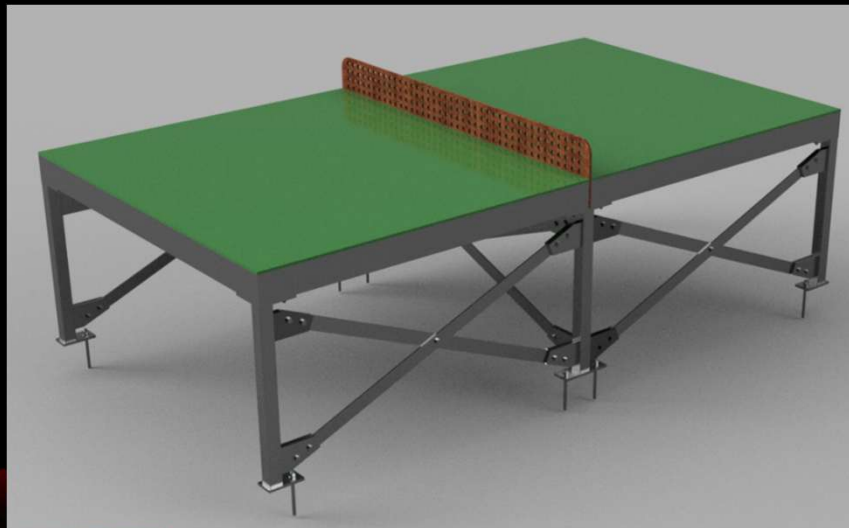
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NOT THE NORMAL STEEL STRUCTURE

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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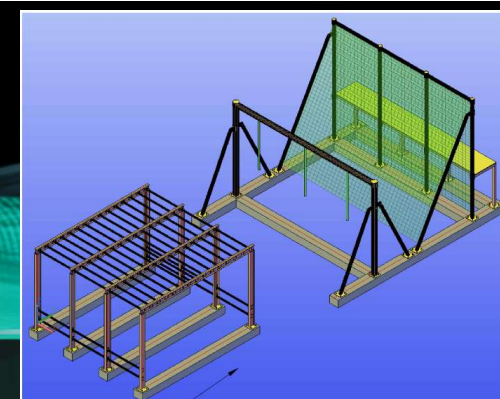
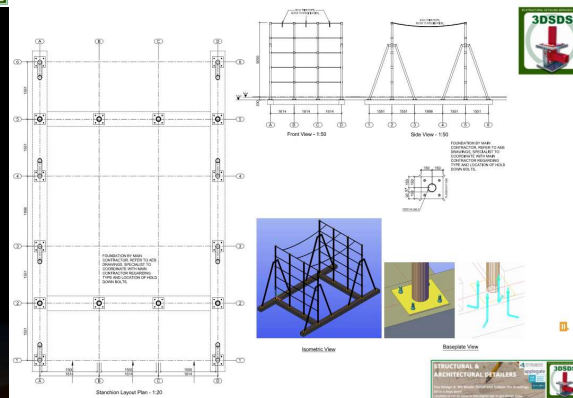
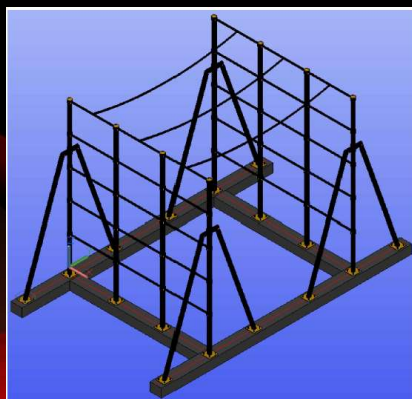
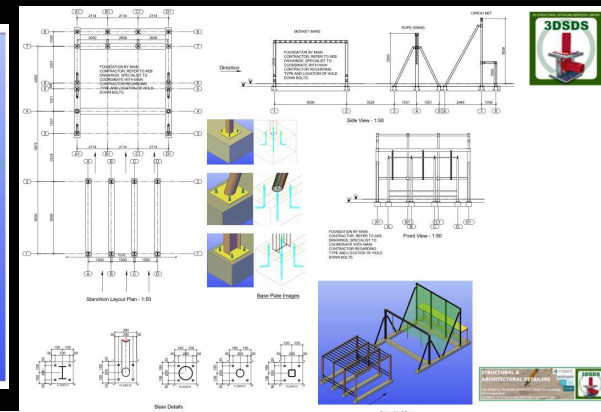
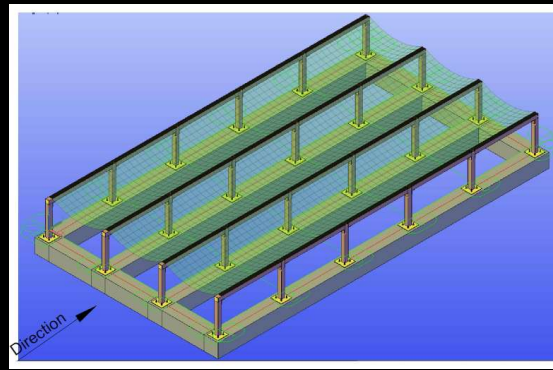
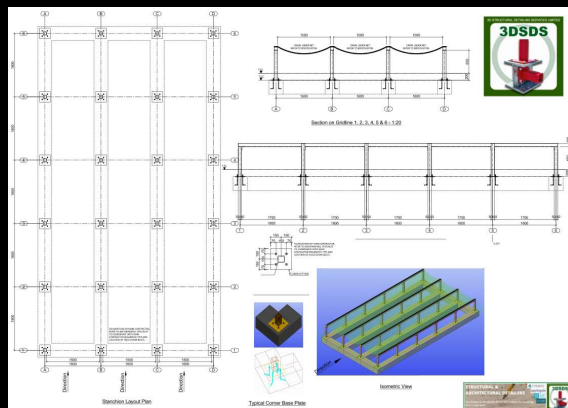
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NOT THE NORMAL STEEL STRUCTURE – Part 2

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



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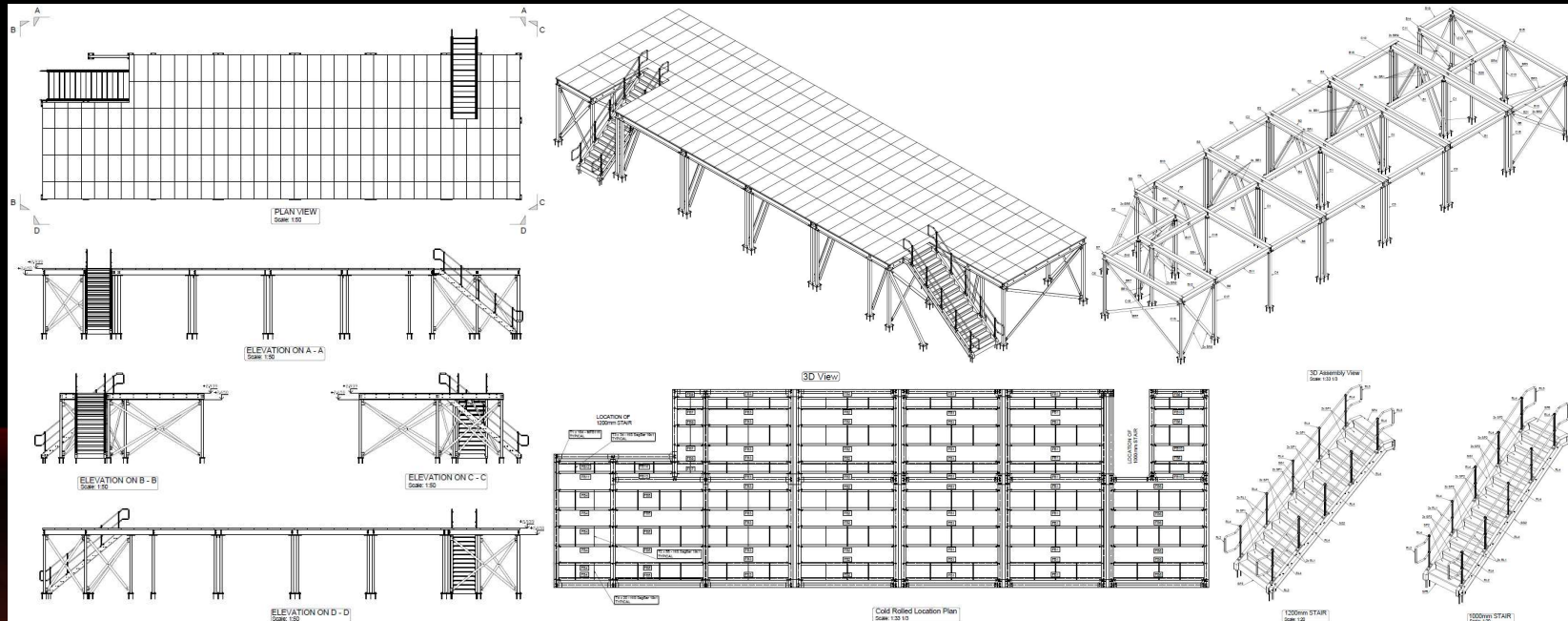


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NEED EXTRA ROOM

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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"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)



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