

Portfolio Centeno 7 Engineering LLC

Mexico City, México, - Wyoming, United States

Ricardo Centeno

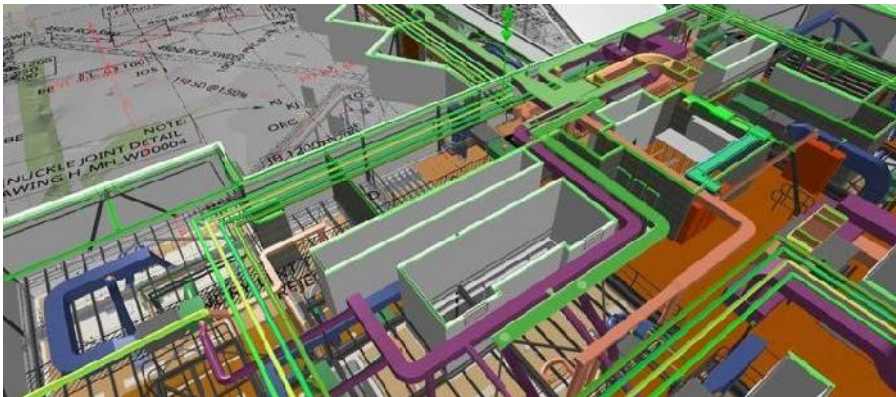
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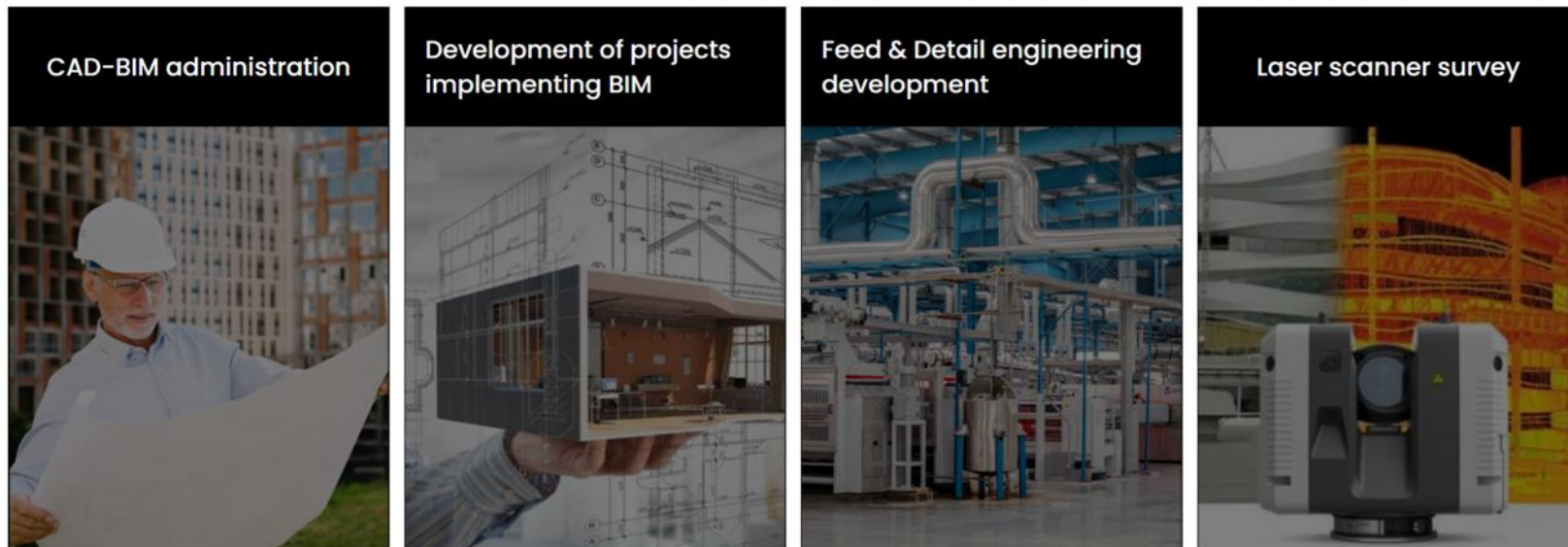
www.linkedin.com/in/centeno-7-engineering-llc-97861397



ABOUT US

Centeno 7 Engineering LLC was founded 7 years ago as a complementary venture to Ricardo Centeno's career as a CAD-CAE-BIM engineer. Over time, the demand for our services grew significantly, leading to the formal establishment of the company in 2021. Today, we operate as a Simplified Stock Company (SAS de CV) in Mexico and a Limited Liability Company (LLC) in the United States, providing legal certainty and commitment to our clients.

Our team consists of highly skilled professionals with extensive knowledge and experience in engineering and architecture. We are dedicated to delivering world-class solutions to our clients, leveraging cutting-edge technology and innovative methodologies.



Business philosophy

Our mission

To implement Building Information Modeling (BIM) in our clients' projects, offering clear and effective solutions that drive the adoption of BIM across the industry.

Our vision

To become a **benchmark** in project development and human capital training focused on BIM, contributing to the advancement of the engineering industry.

Our values

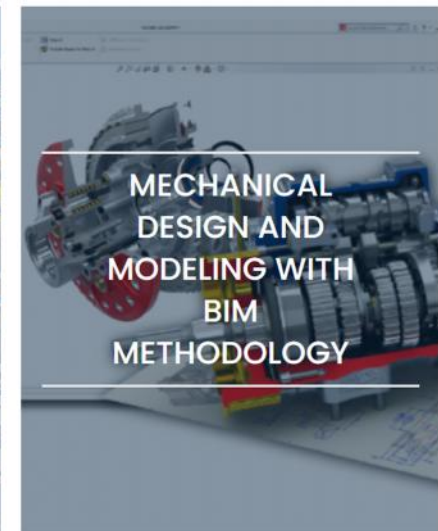
-) Ethics
-) Objectivity
-) Integrity
-) Quality
-) Respect
-) Commitment

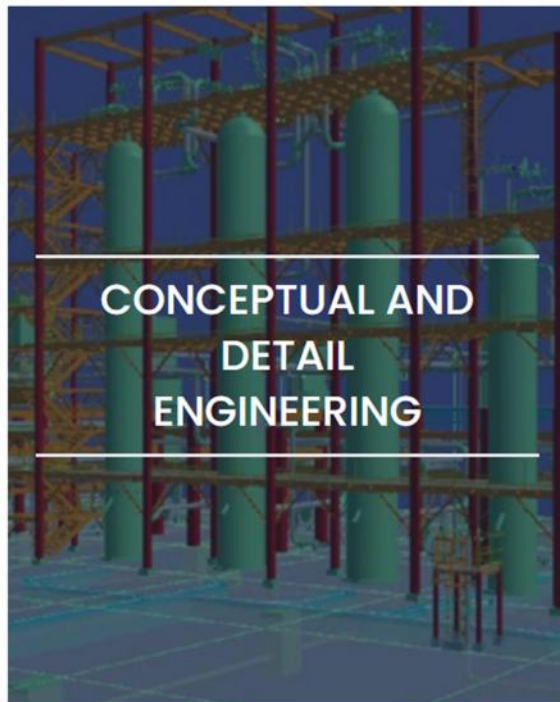
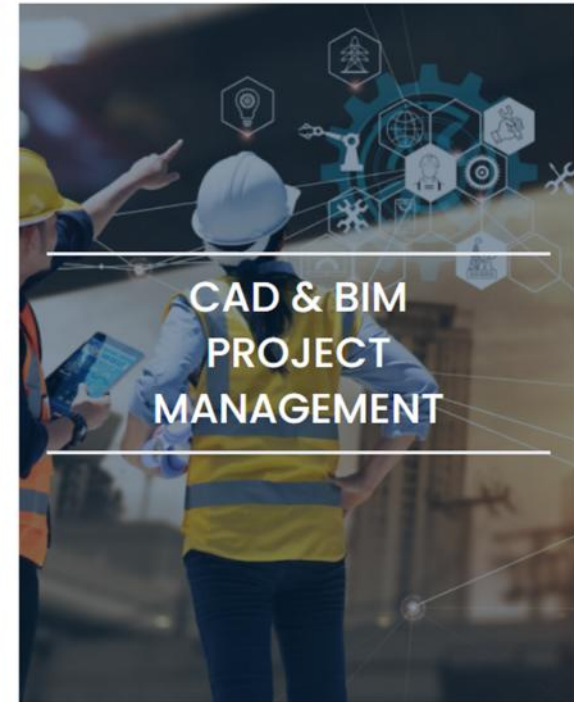


What we do?

We are a group of consulting engineers, a multidisciplinary team made up of various specialists in 3D CAD layout and BIM design, and with a great record of accomplishment and successful experience in the field of engineering and architecture.

We have strategic partners that allow us to integrate a portfolio of services that consolidate technology, experience and knowledge that result in a unique solution for our clients and their projects.





BIM models in the most recognized and currently used software, such as: Revit (architecture, structures and MEP), Civil 3D (tailings dams, mining, roads), Steel Advance for high-detail structural connections, Cadworx and AutoCAD Plant 3D (isometric drawings, plan drawings), construction plans, distribution plans, catalog of concepts extracted from the model), pipe stress analysis with the latest tools, SolidWorks Plant (similar to Cadworx and AutoCAD Plant 3D, with the versatility of the high level of SolidWorks mechanical design).

Integration and coordination of 3D models and interference review using Navisworks.

- Administration and creation of seed projects in Cadworx, AutoCAD Plant 3D, Smart Plant 3D and Everything 3D.

BIM development, in:

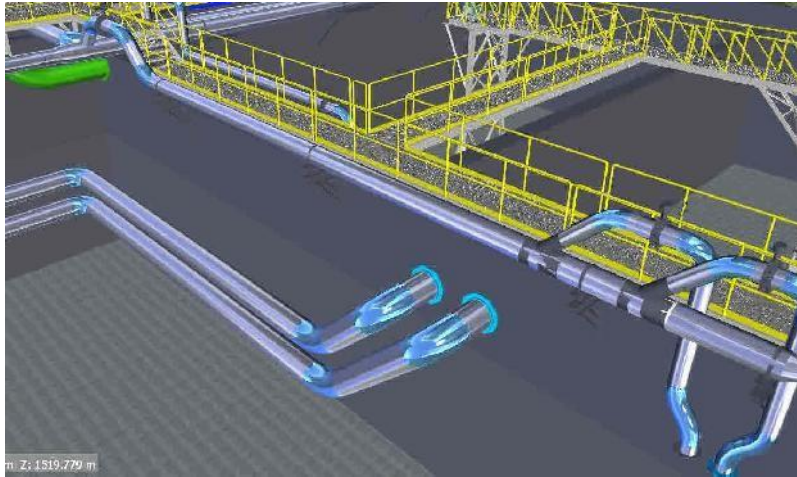
- ✓ Calculation, Design and Modeling of pipes, sizing, calculation memories.
- ✓ 3D Architectural, Mechanical, Electrical, Fire and Structural Model, according to the calculation specifications of your specialists.
- ✓ Development levels in 200, 300, 350 (executive) and 500 "as built", with point cloud support, obtained from a survey with a 3D laser scanner.

Cloud point:

On-site survey with 3D laser scanner and information processing (point cloud), as well as intelligent models based on laser survey, on the platform that is required, survey in any part of the Mexican Republic and the United States.

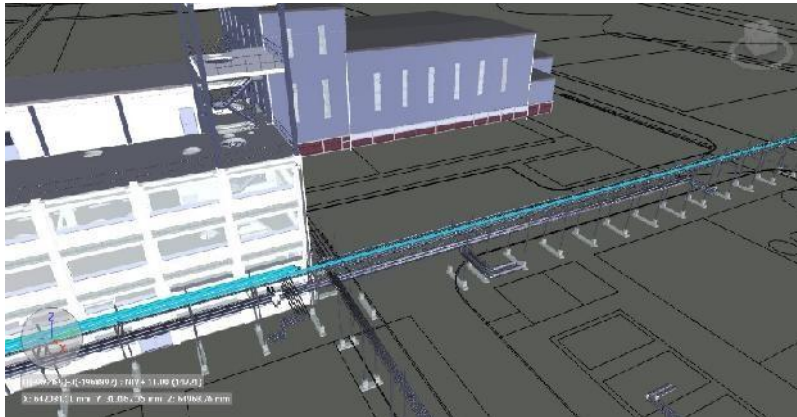


1. REVIT



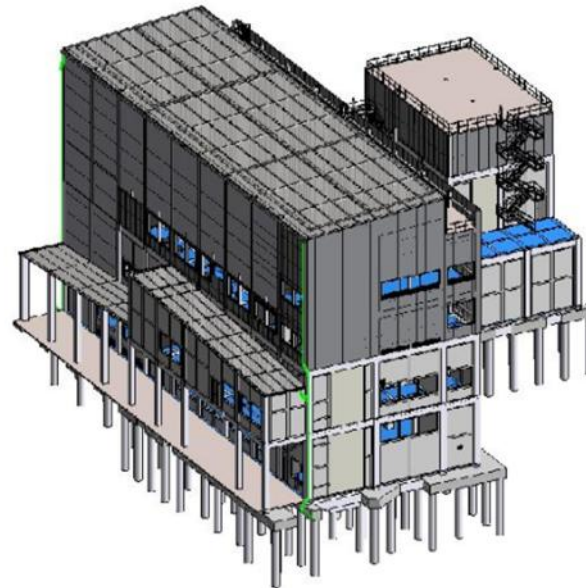
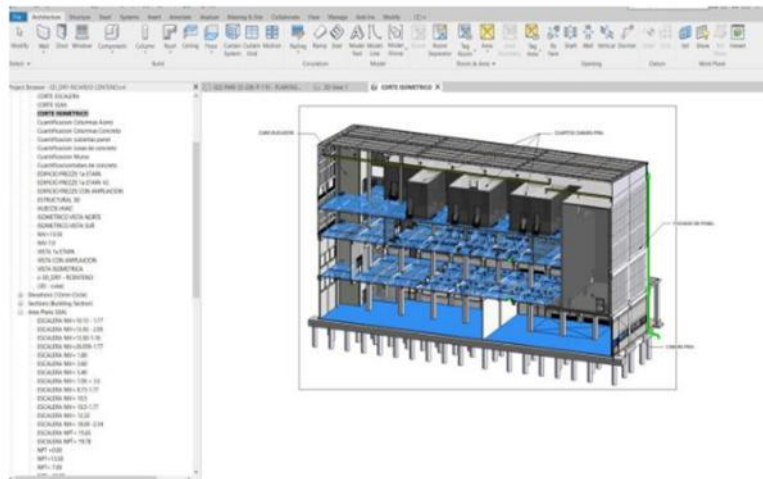
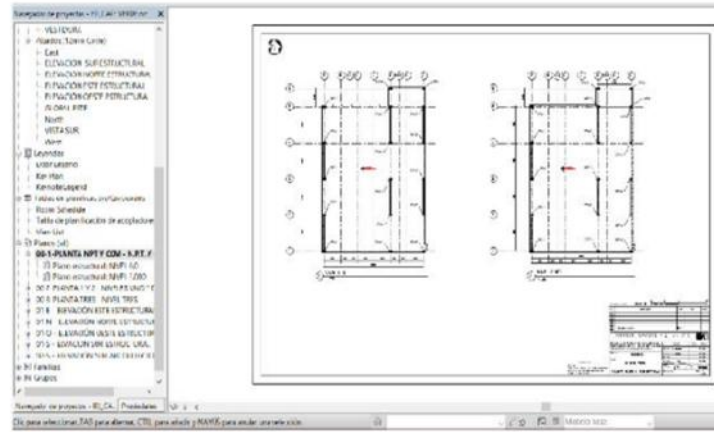
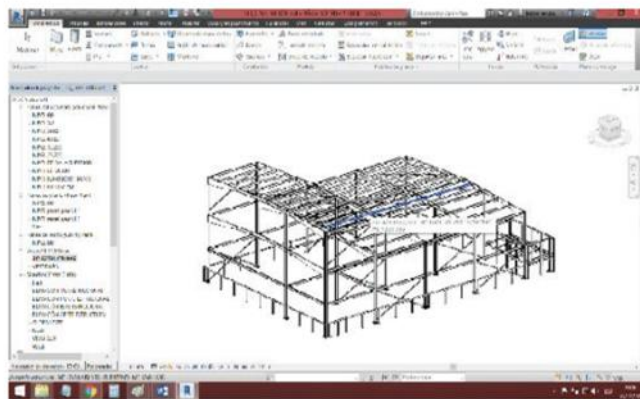
Pipes in Revit MEP, Revit structure supports (development of families of valves with diameters of more than 18", stainless steel accessories, GRP pipes with diameters greater than 24" with support in Inventor), development of parametric families of mitered elbows.

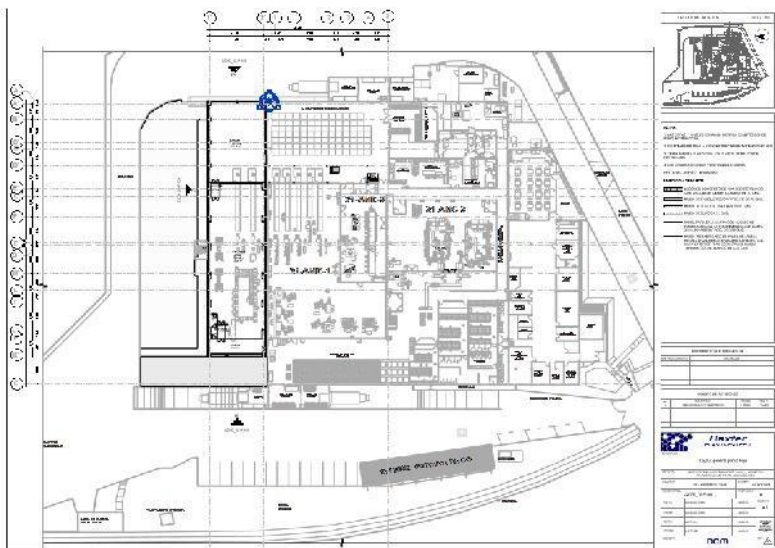
Ticsa -> 2016-2017



Piping rack for soluble coffee production plant, process and service piping, structures with revit

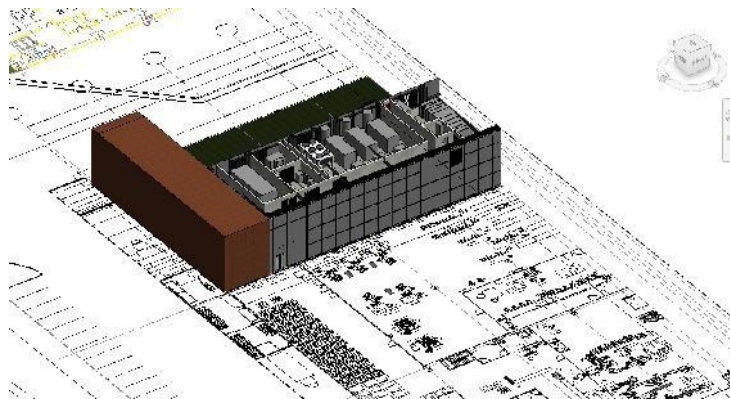
Idom -> 2018-2019



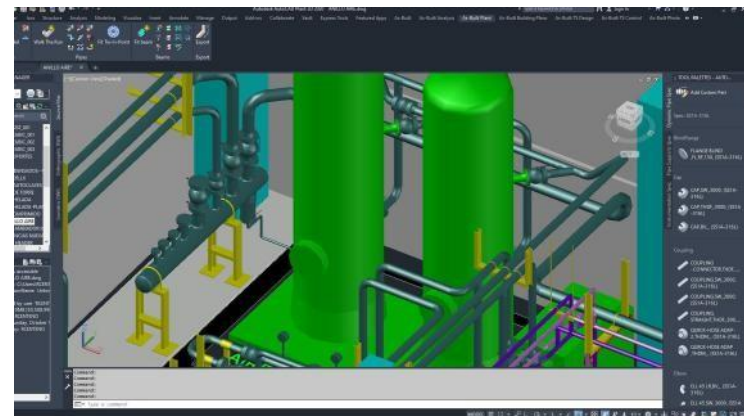
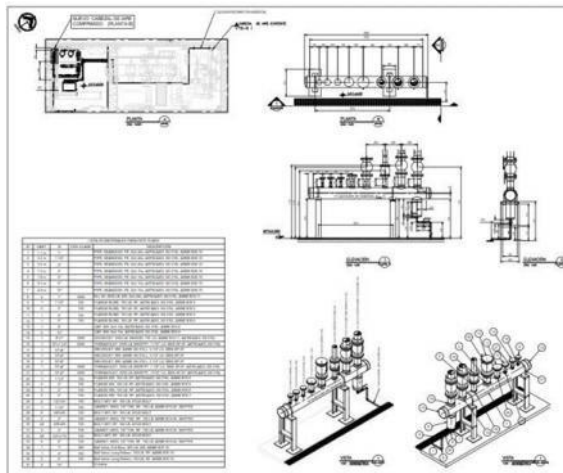
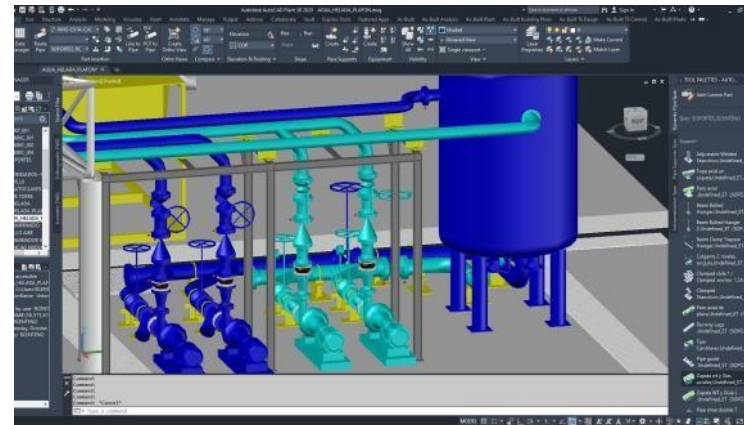
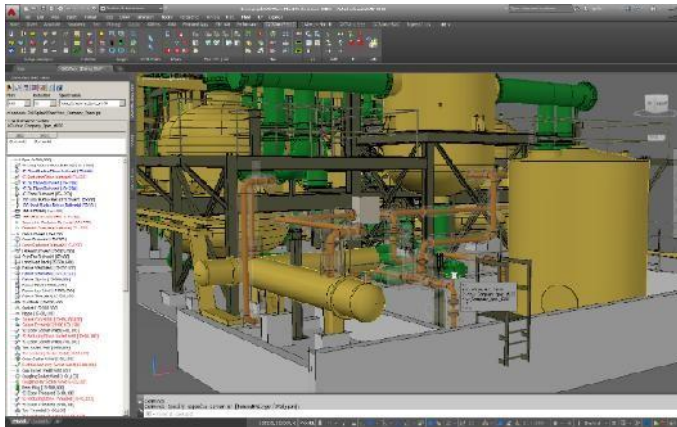


Industrial pharmaceutical production plant, process and service piping with AutoCAD plant 3D, structures & architecture with Revit

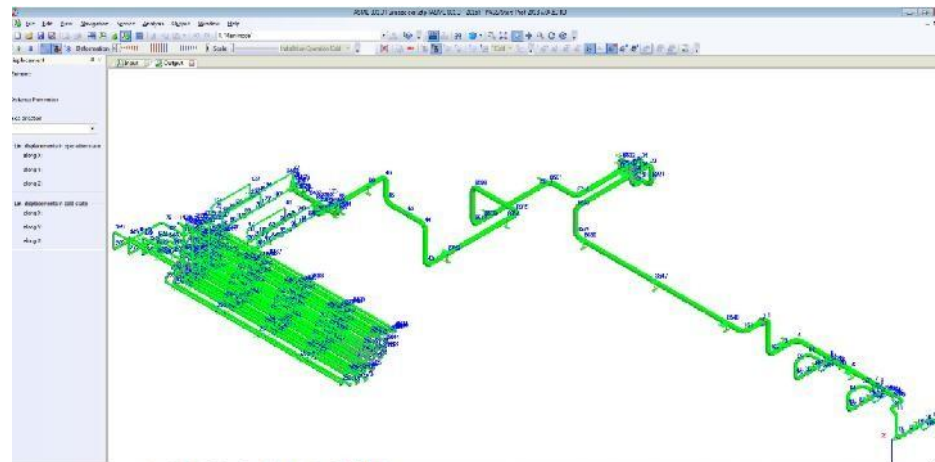
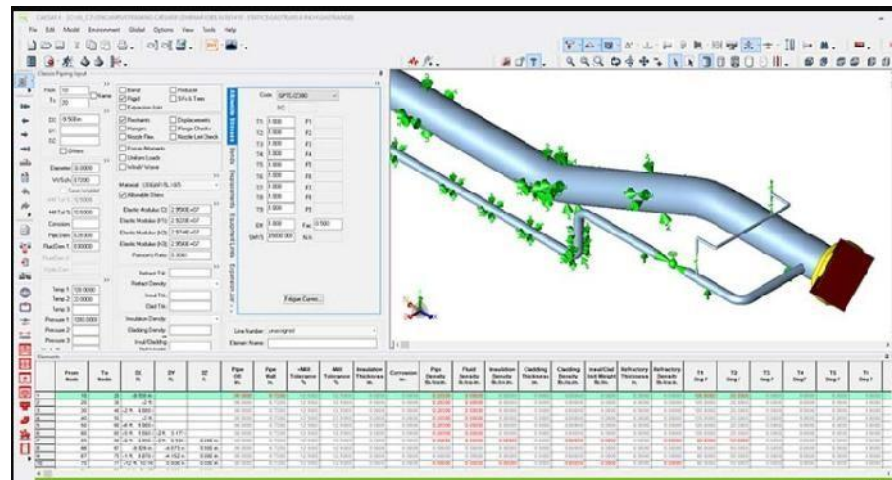
Service provider -> 2020



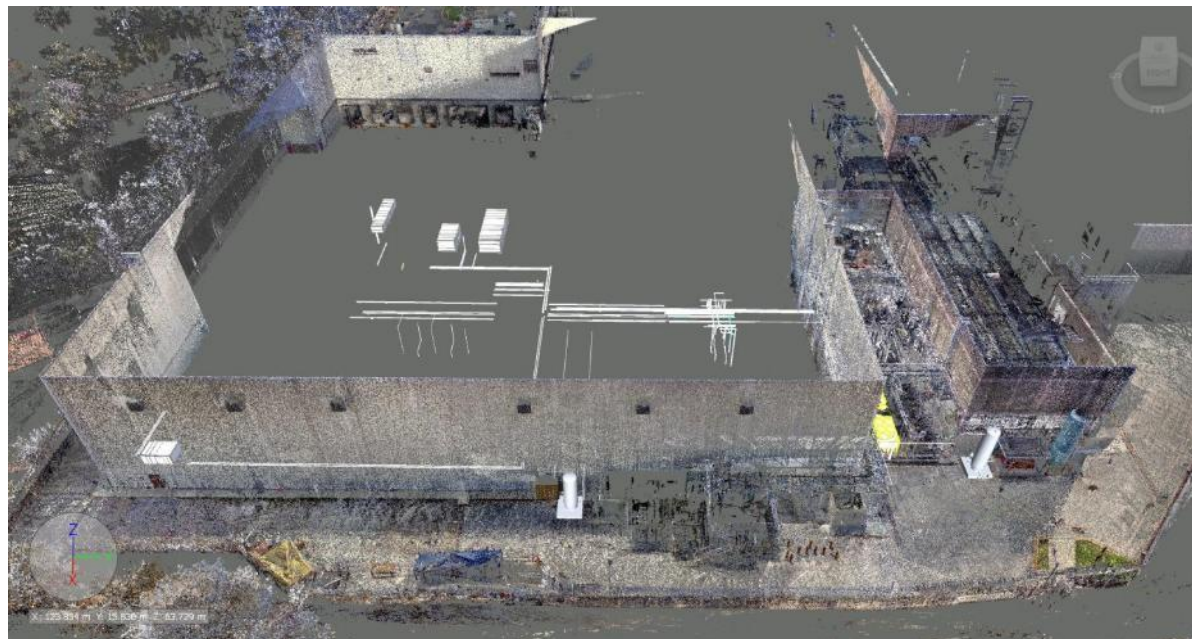
2. CADWORX, AUTOCAD PLANT 3D Y SOLIDWORKS PLANT

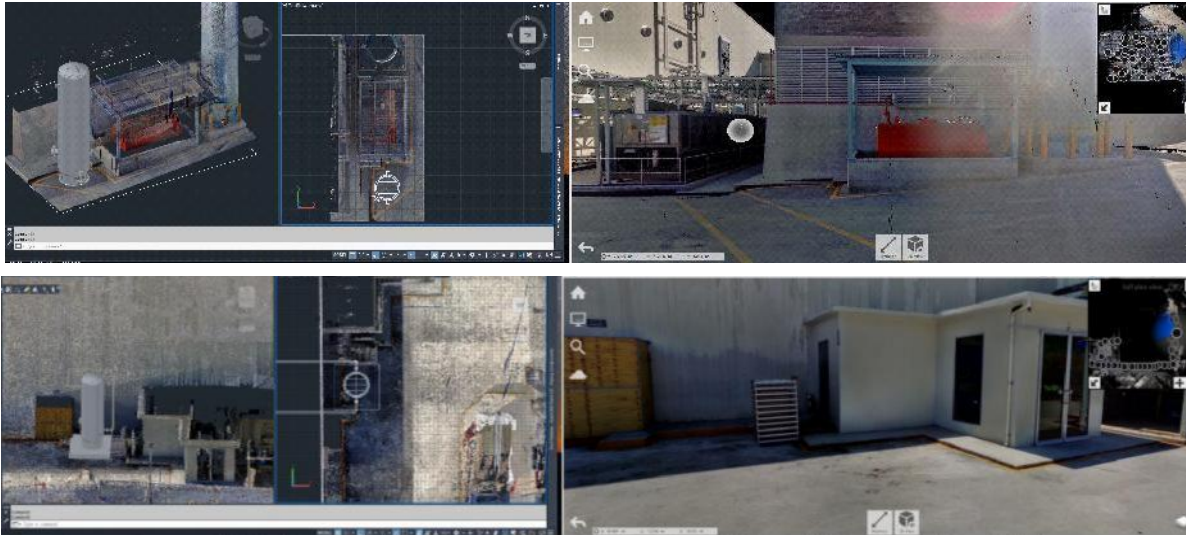


3. PIPING STRESS (Pass Start/Prof - Caesar II)



4. Point Cloud (service provider with laser scanner)



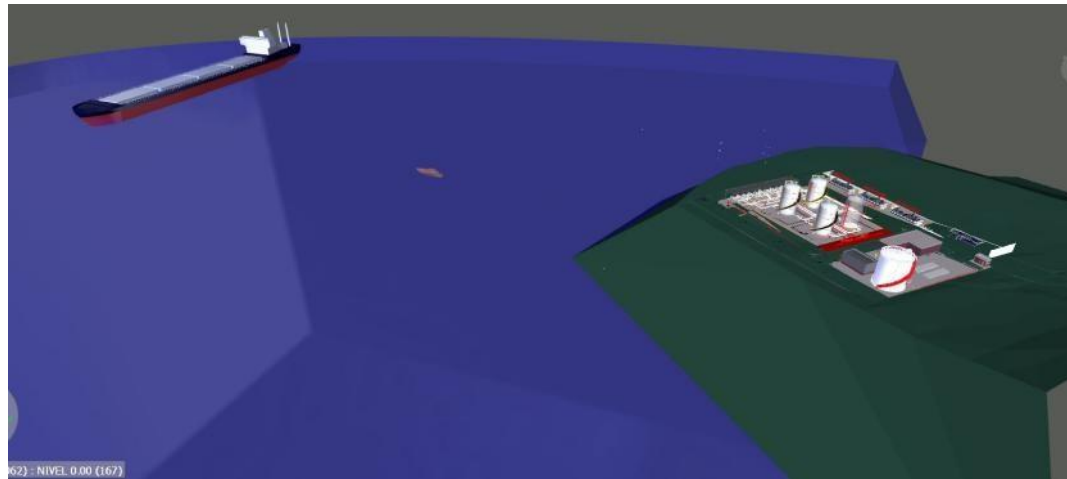


Baxter - Laser Survey / Point cloud / As-built model (Revit & AutoCAD Plant 3D) – Morelos, México.

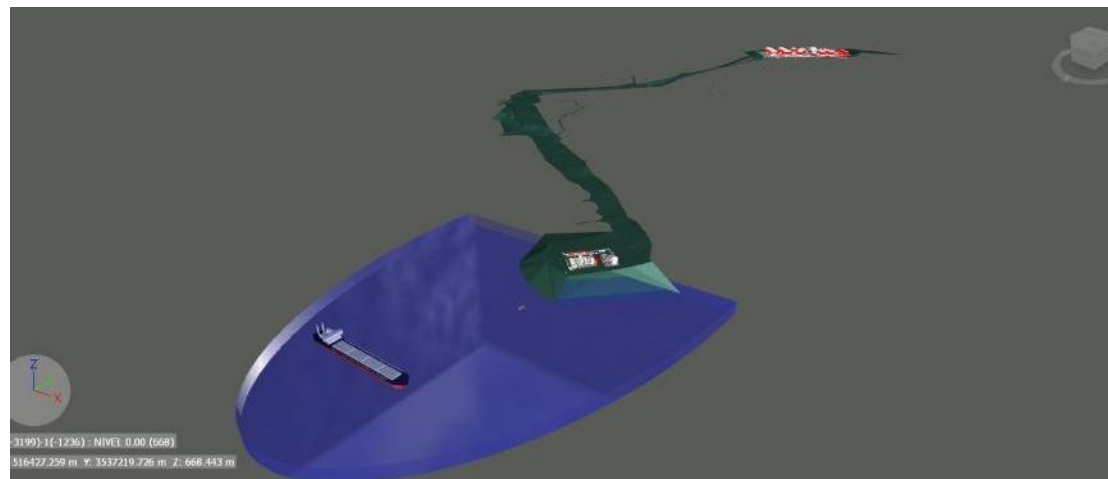


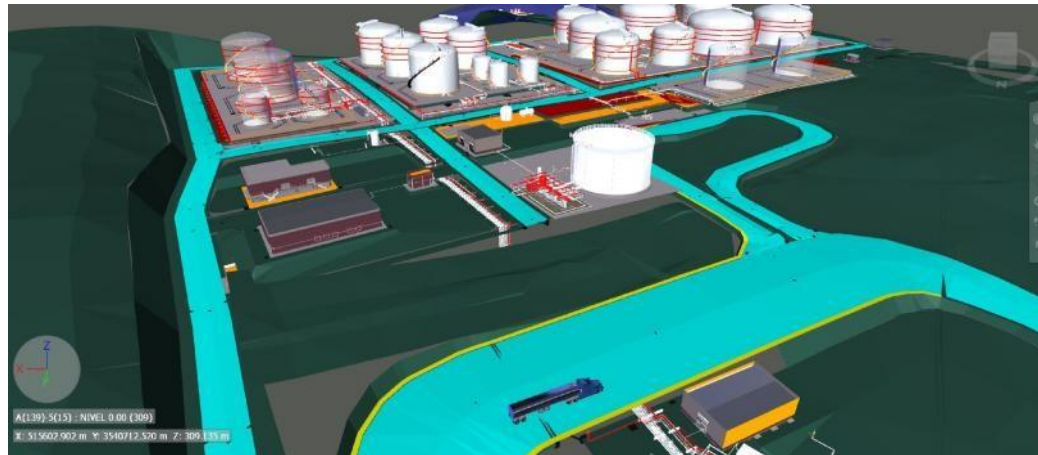
Givaudan - Laser Survey / Point cloud / As-built model (Revit & AutoCAD Plant 3D) – Queretaro, México.

5. BIM COORDINATION AND DESIGN - Fuel Storage terminal

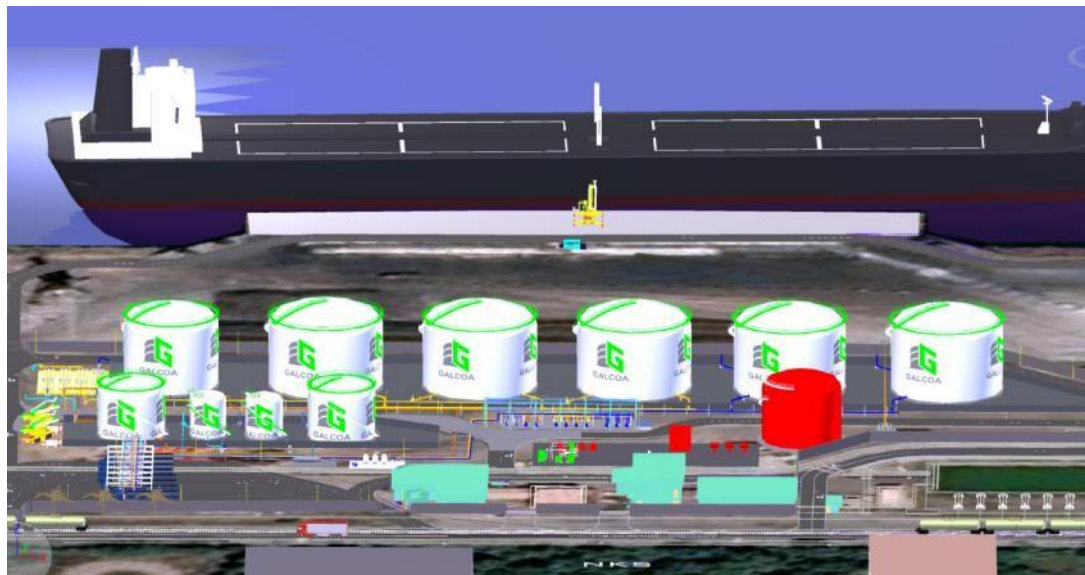


Sempra Energy - 2019 BIM Manager / Stress Engineer / Modeler Revit/AutoCAD Plant 3D





Sempra Energy - 2019 BIM Manager / Stress Engineer / Modeler/ Modeler Revit/AutoCAD Plant 3D



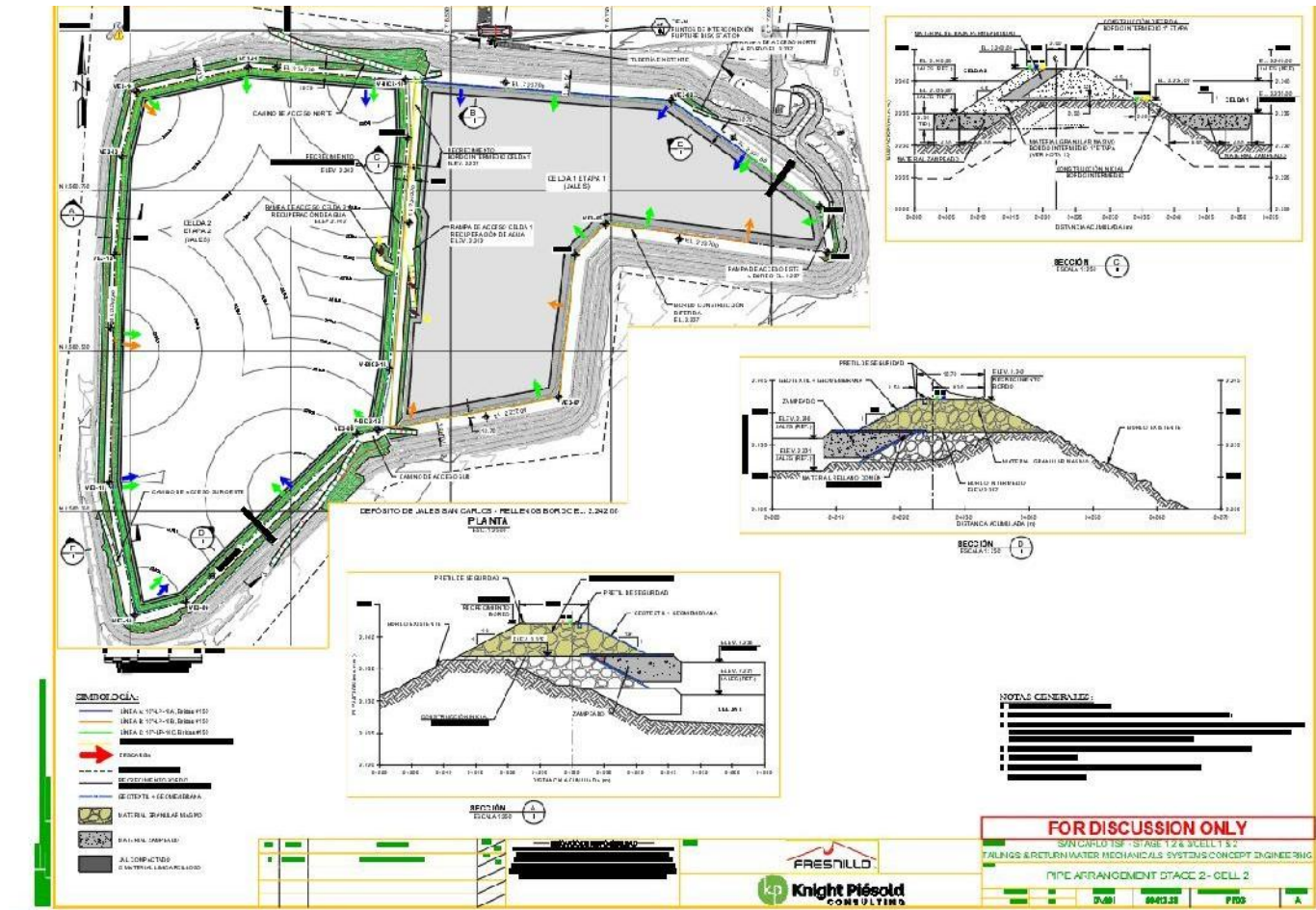
Galca Energy 2021-2022 – Service provider BIM designer & Modeler -Lazaro Cardenas



Galca Energy 2021-2022 – Service provider BIM designer & Modeler - Baja California Norte

Revit / Civil 3D / AutoCAD Plant 3D / Infraworks

6. CIVIL 3D.



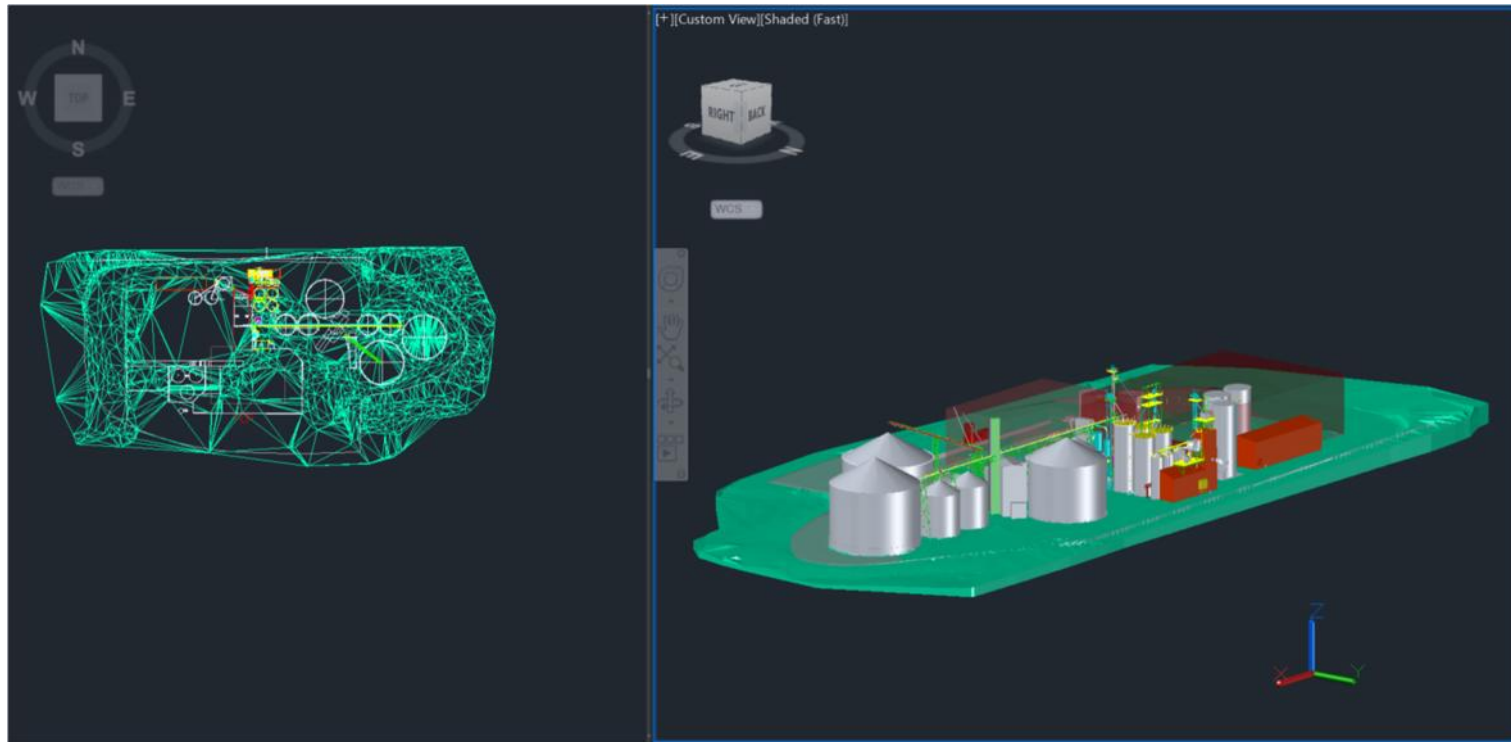


Knight Piesold Consulting 2022-2024 – Hydromechanical Engineer

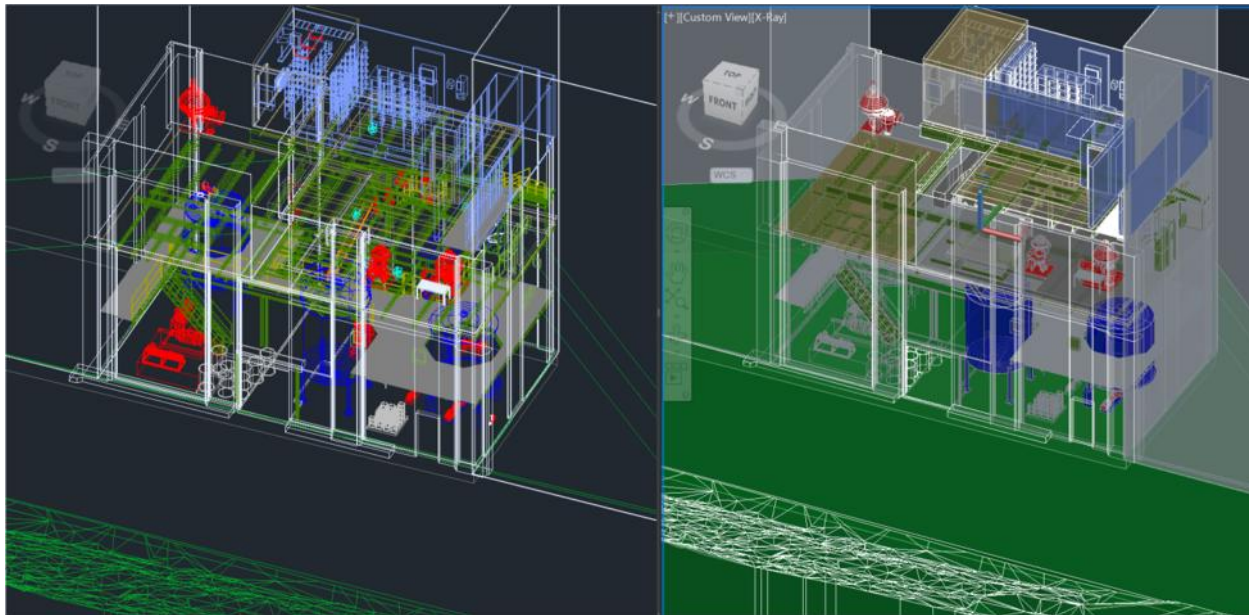
Revit / Civil 3D / AutoCAD Plant 3D / Infraworks

7. 3D MODEL FROM POINTS CLOUD - FOR UPPER CONSULTING.

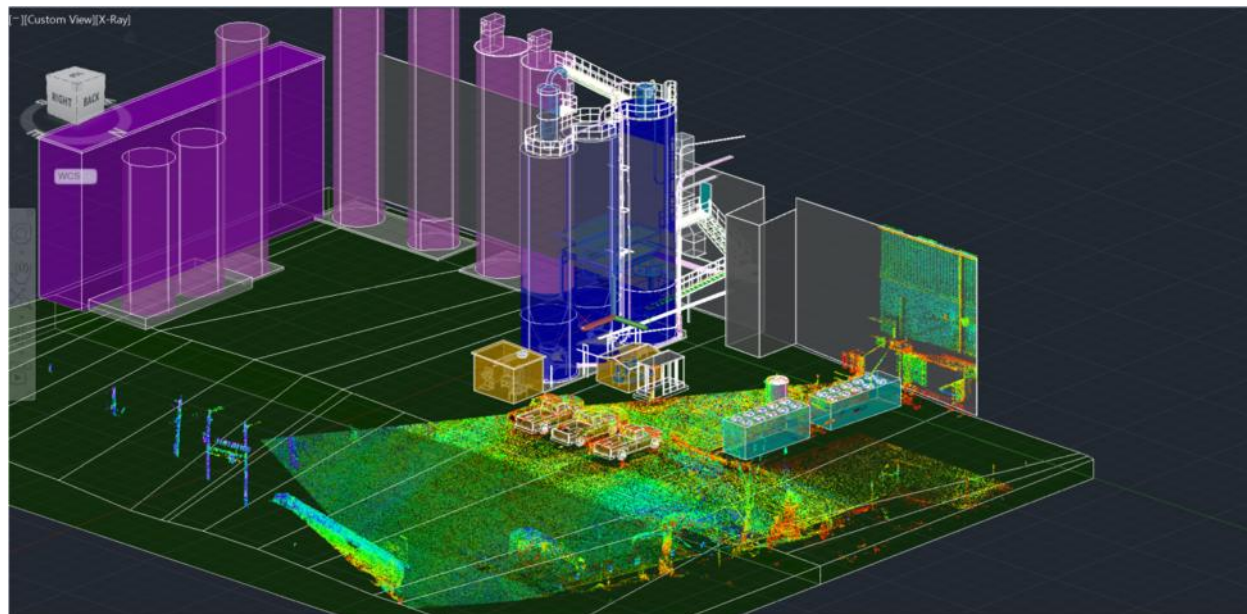
UPPER CONSULTING is a client with whom we have a continuous work agreement since November 2022.



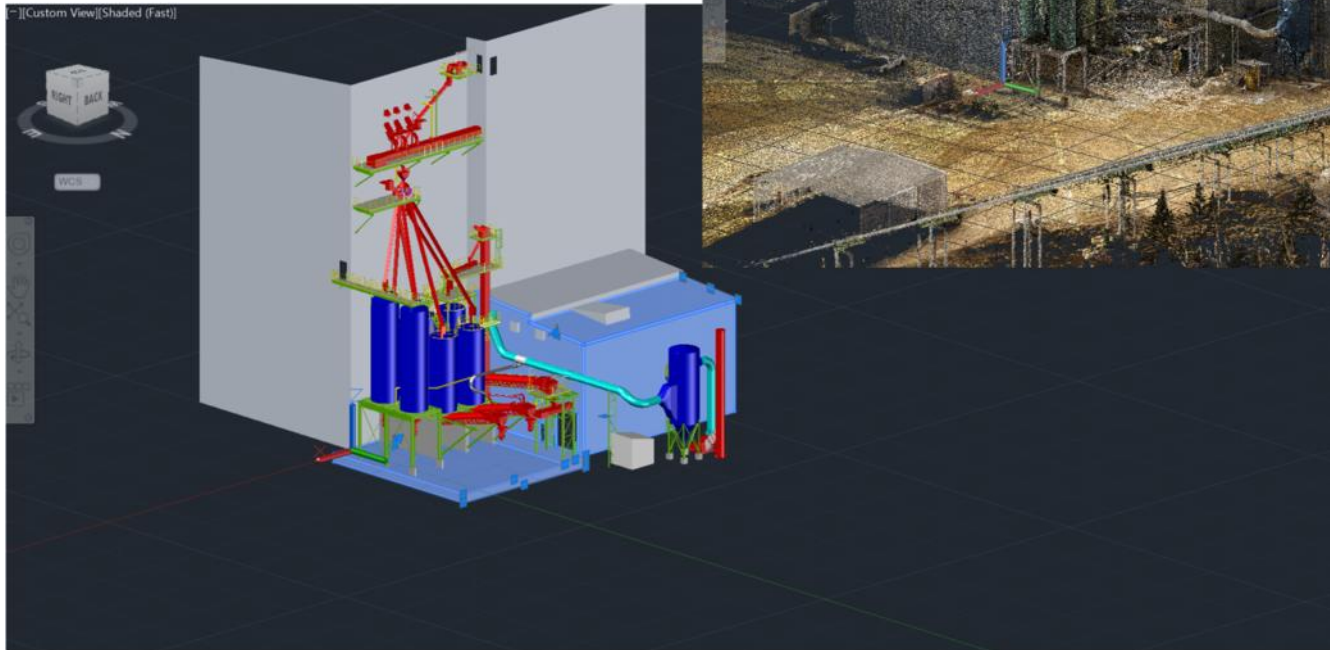
3D MODEL FRO POINT CLOUD-ADM WHITE RIVER FACILITIES



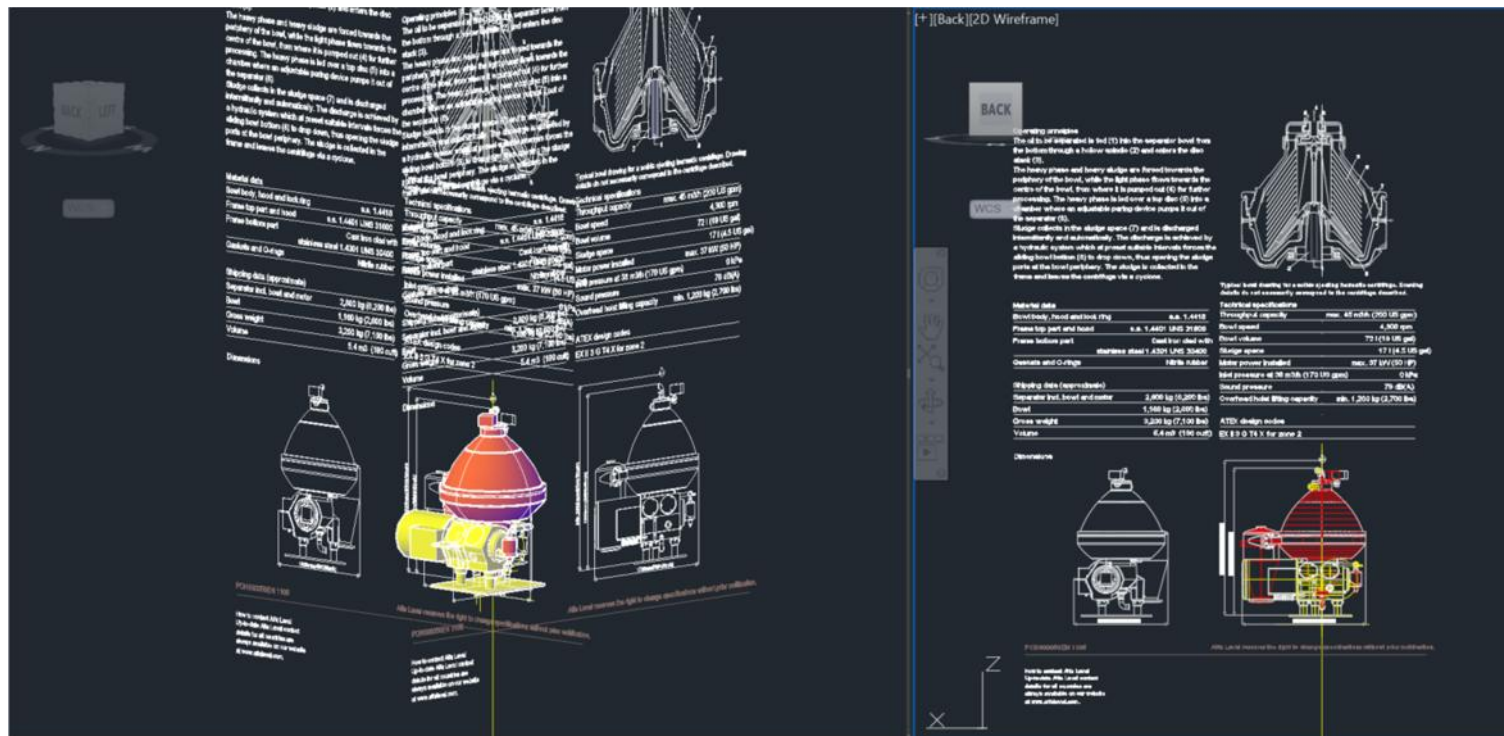
ADM CLINTON FACILITIES



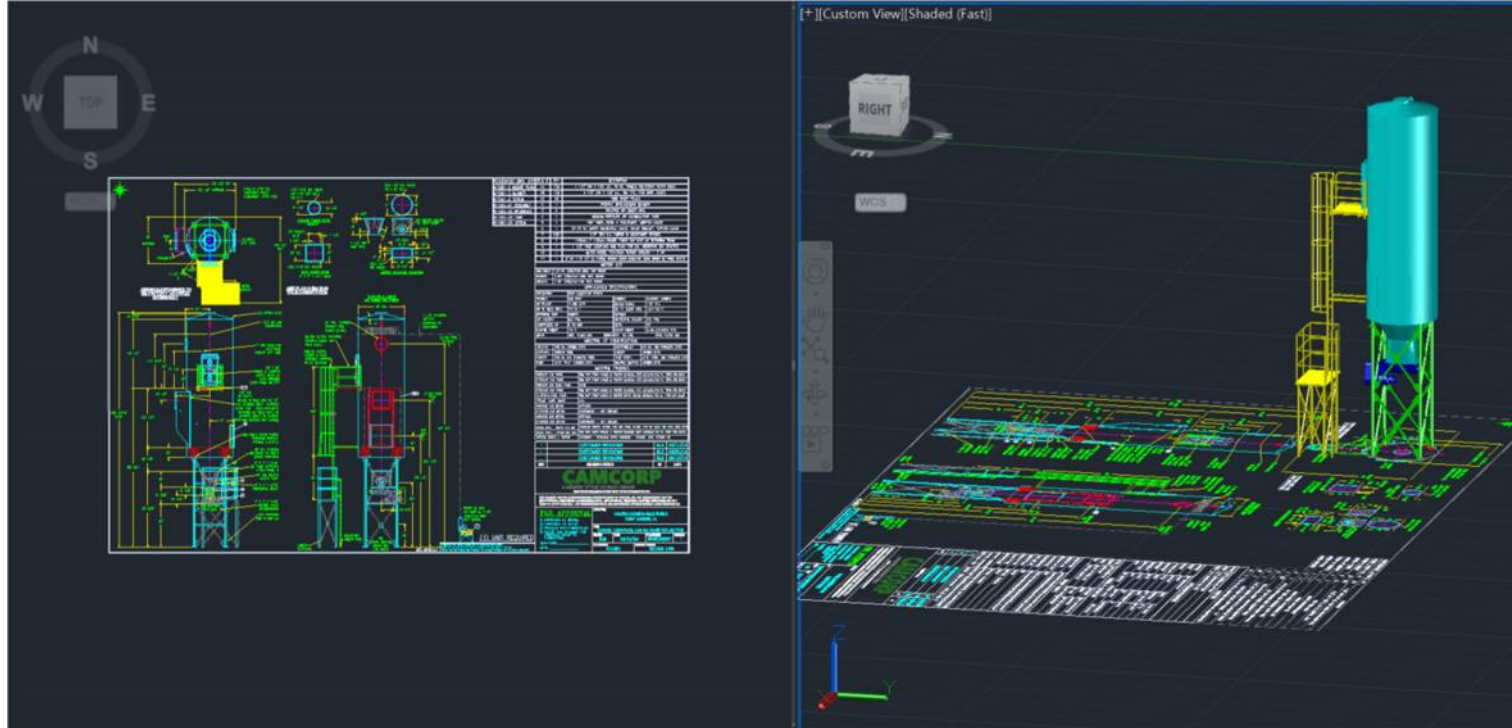
SHEARER'S FOOD FACILITIES



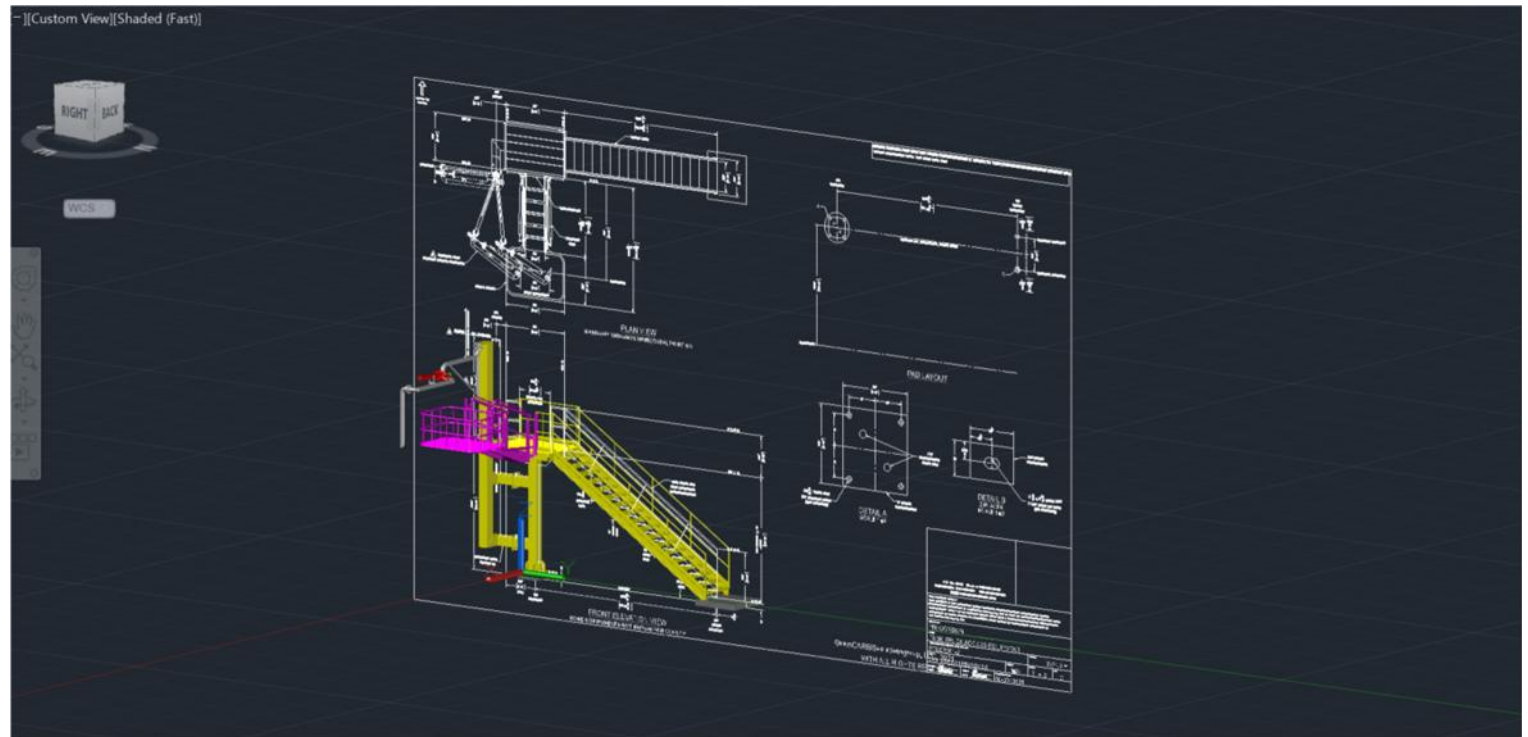
BADGER MINING CORPORATION, LOADOUT FACILITIES



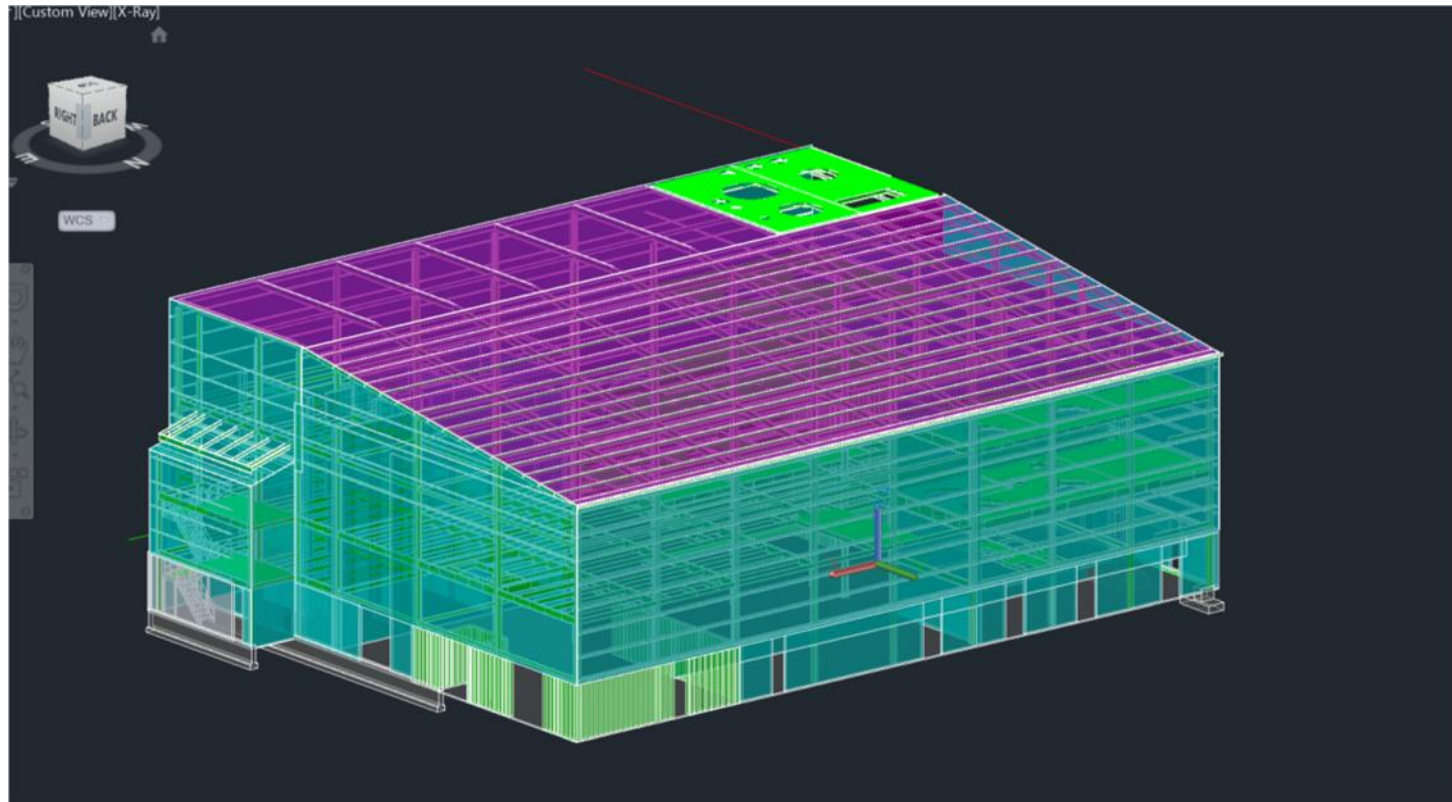
3D MODEL-REVERSE ENGINEERING FROM SCHEMATICS DRAWINGS 2D FOR NEW CONSTRUCTION



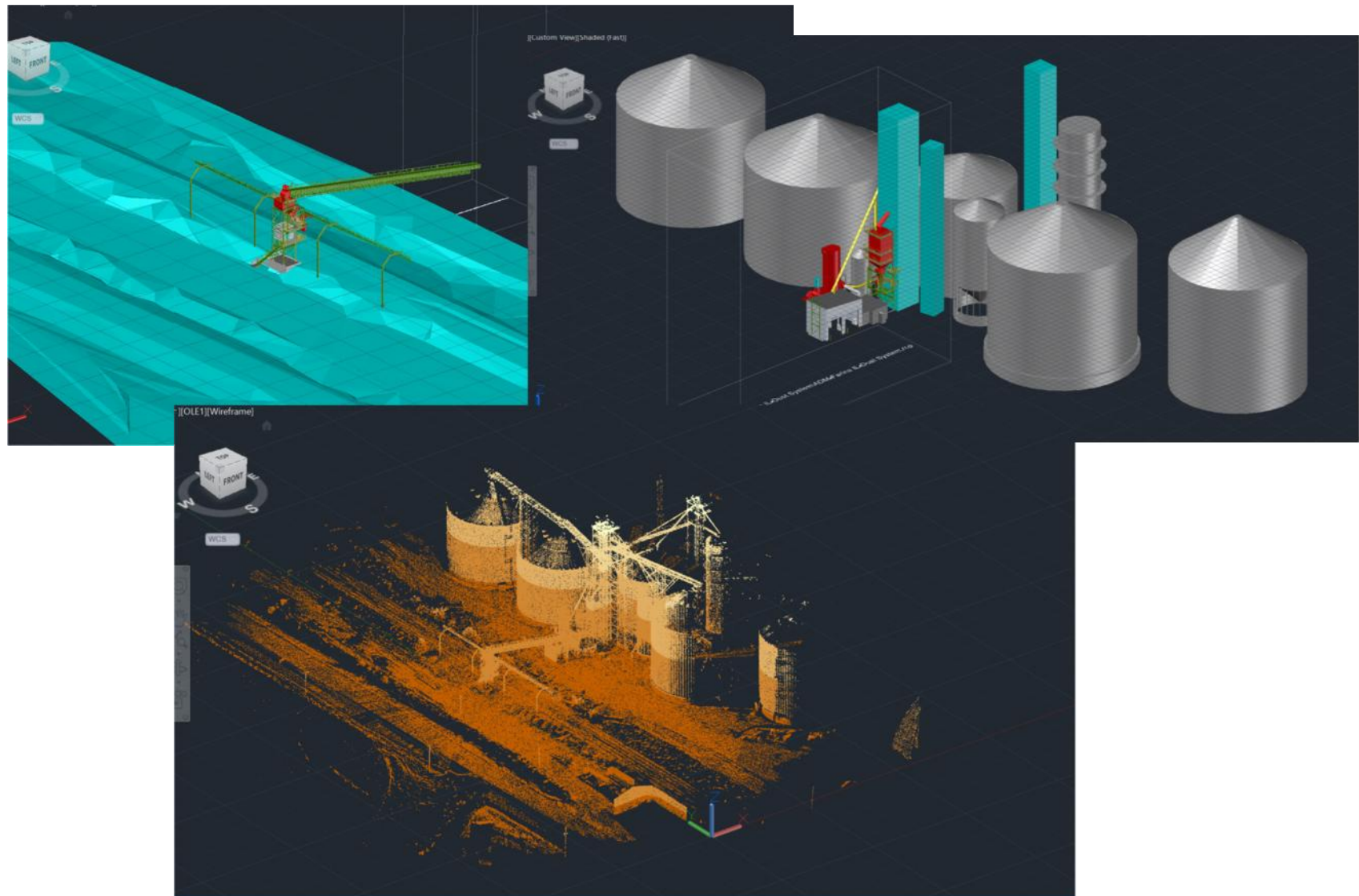
REVERSE ENGINEERING_SPECIAL MECHANICAL EQUIPMENTS FOR NEW CONSTRUCTION



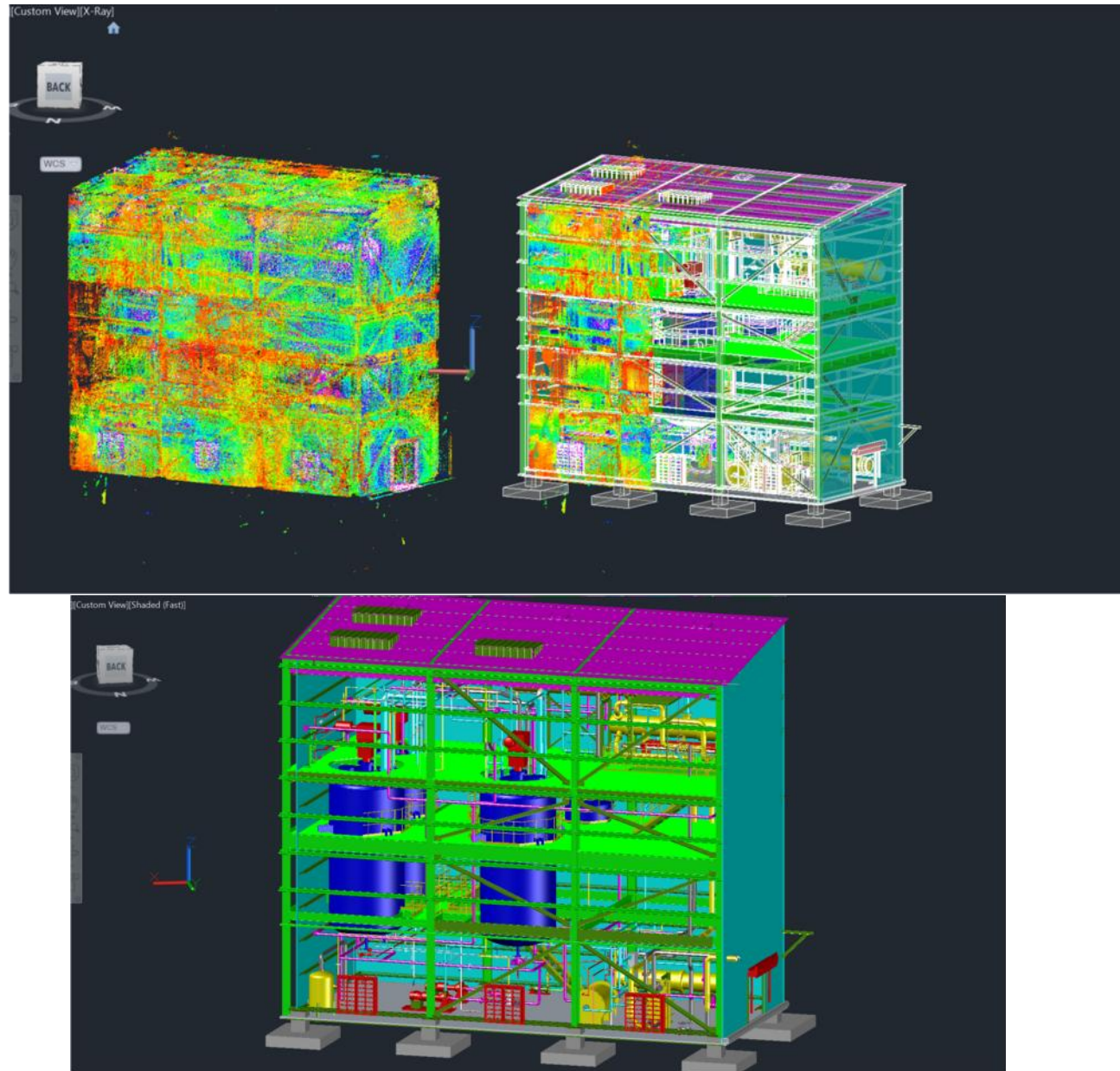
NEW SPECIAL MECHANICAL DESIGN FOR CONSTRUCTION



STRUCTURE STEEL 3D MODELING FOR ADM REFINERY FACILITIES



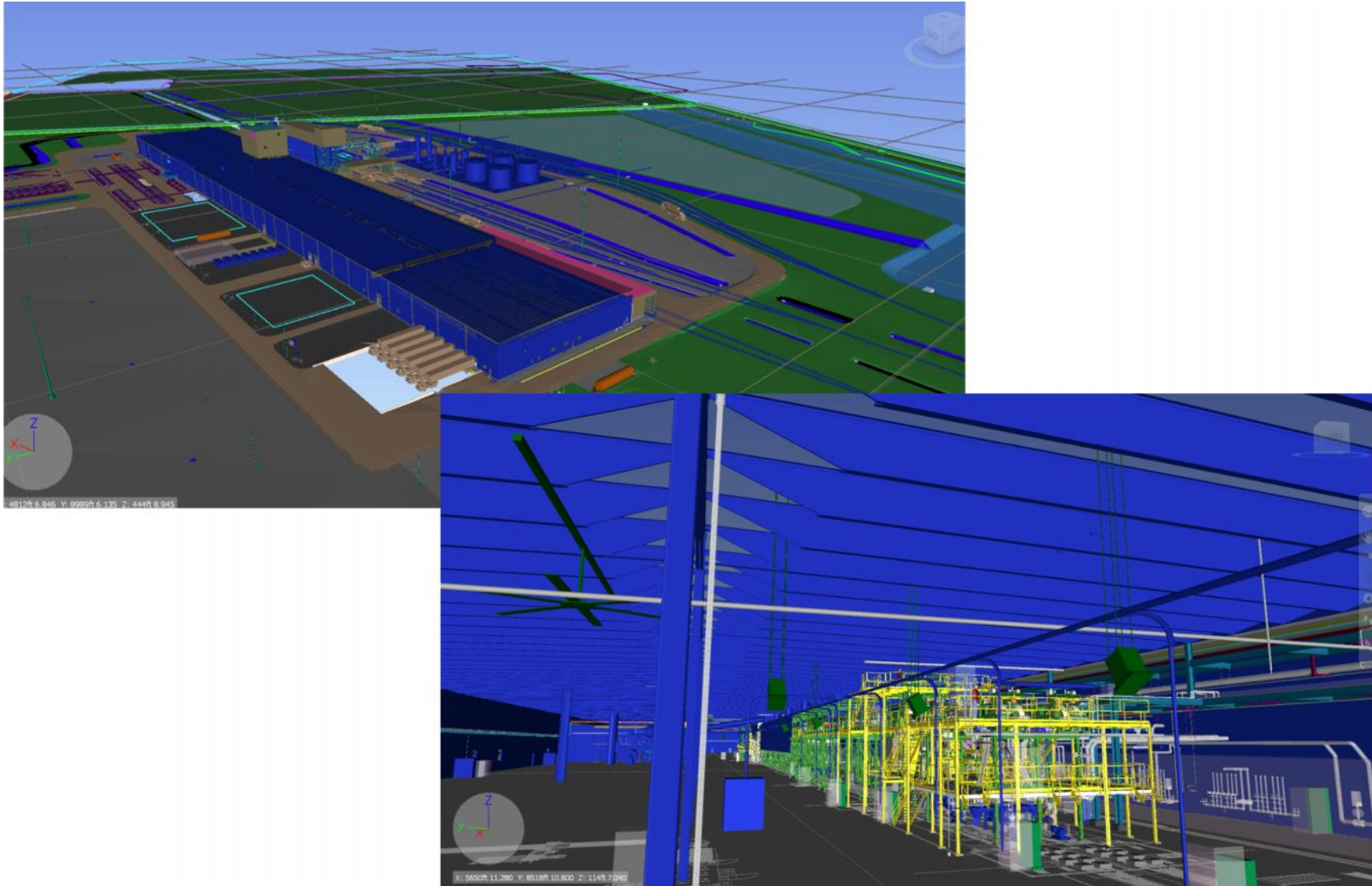
ADM FARINA IL FACILITIES - POINT CLOUD-3D MODEL PHASE I & II



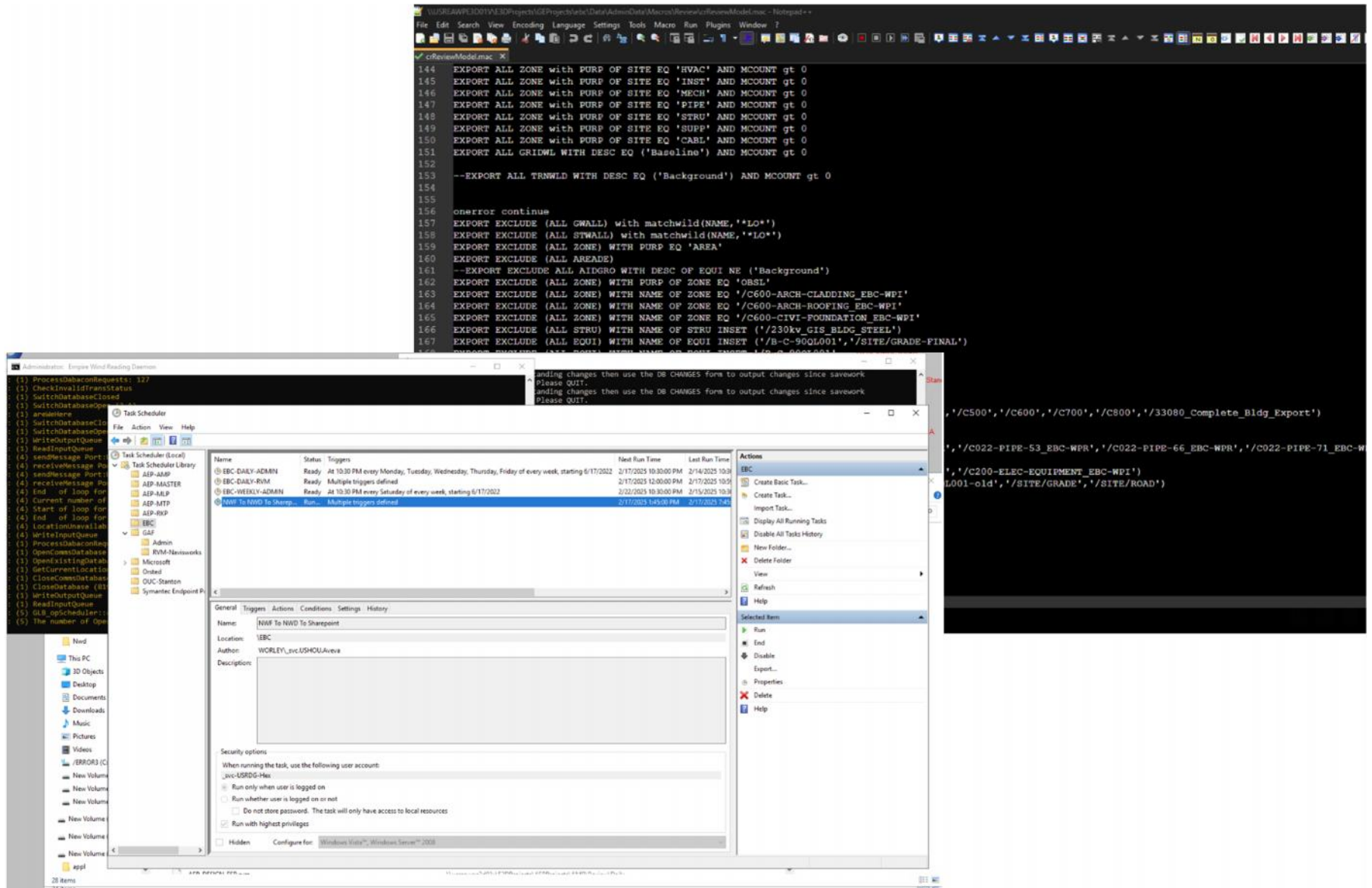
HYDROGENATION BUILDING 3D MODEL - ADM QUINCY REFINERY FACILITIES.

8. 3D MODEL SUPPORT AND BIM ADMINISTRATION SUPPORT FOR WORLEY CONSULTING.

Worley Consulting is a recent client, with whom work began on ongoing tasks in November 2024, and it is expected that they will continue working on new projects during this current year and beyond.



Support in the engineering project of the new XLR8 building for the company GAF, located in Pennsylvania, U.S. in the rapid modeling of information provided in 2D files by mechanical equipment suppliers



Additional support in the engineering project of the new XLR8 building for the company GAF, in programming an automated system for generating daily scheduled sessions at three different times so that project managers can review the progress of the 3D models of all the disciplines participating in the development of this engineering.



Electric wind power generation facilities, located in Quebec, Canada, in the rapid modeling of information provided in 2D files by mechanical equipment suppliers, and providing files compatible with the project's 3D model system.