

Structural BIM

Scan to BIM project of a historic horse racing facility



CASE STUDY

Abstract

SBL efficiently completed a Structural Building Information Modeling (BIM) initiative for an esteemed horse racing edifice. The endeavor aimed to craft a comprehensive 3D delineation from point cloud data, aiding in the edifice's renovation. Employing advanced BIM methodologies, the team aspired to maintain the edifice's integrity while laying a robust groundwork for prospective enhancements.

Challenges

The initiative faced distinct challenges:

- The edifice's historic stature necessitated exceptional care in preserving its structural and aesthetic essence.
- Translating point cloud data into a Level of Detail (LoD) 300 model in Revit demanded precision to guarantee accuracy and intricacy.
- Harmonizing the edifice's historical importance with contemporary refurbishment techniques presented a notable challenge.

Approach

SBL adopted a methodical strategy to navigate these challenges:

- Utilized Autodesk Revit, a sophisticated BIM tool, to manage intricate data and forge an accurate model.
- Thoroughly examined and transformed the point cloud data into a 3D model, encapsulating all vital aspects of the steel framework and architectural elements.
- A synergistic collaboration among historians, architects, and engineers ensured the model addressed both structural requirements and conservation objectives.



Benefits

The initiative yielded several advantages:

- Furnished an elaborate and precise 3D blueprint for the renovation team, enhancing decision-making and planning.
- Aided in safeguarding the historical character of the horse racing facility while aligning it with modern standards.
- The detailed BIM model promotes improved maintenance and preservation strategies, ensuring the edifice's durability and sustainability.

Customer

The owners of the historical horse racing venue commissioned the project, aiming to rejuvenate and conserve a pivotal landmark in the realm of horse racing.

Geography

The initiative centered on a celebrated horse racing venue, necessitating a thoughtful approach to its cultural and architectural heritage.

Industry

The focus was on structural engineering and architectural conservation, merging technology with tradition to preserve and augment a historic sports facility.





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