



**THEOMETRICS**

Bringing BIM to the Field

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### Customer

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Levest Electric  
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### Architect

Matthews Nielson, Dattner Associates  
Tillotson Design

### Owner

United States Navy  
Leased under the public direction of  
Matthew Woods

## PROJECT: USS Intrepid Sea Air & Space Museum 3D Electrical System Layout As-Built Study



### Project Overview

The USS Intrepid Sea Air & Space Museum, located on Pier 86, extends 1,000 feet off West Side Highway (Route 9A).

### Scope of Work

3D Electrical System Layout As-Built Study

Theometrics was hired by Levest Electric to produce a 3D As-Built Study; a real time layout of the ship's electrical power system; and a Forensic Coordination Service in order to facilitate the renovation of the museum's electrical systems. The existing condition As-Built Study was conducted to create accurate 3D drawings of the structure's measurements to aid the design and engineering teams in the creation of more exact planning for renovations. The electrical power layout shop drawings generated by the teams were then transferred from CAD to the structure by Theometrics' layout artisans, directed by TheoTechs, in order to ensure precision in the layout. As the layout of electrical work progressed, Theometrics also provided Levest with redline CAD drawings, automatically generated in the field.

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*Theometrics is the art and science of precision measurement and navigation in and on construction sites. Our innovative technology navigates users with laser-sharp accuracy, from any point, on any CAD drawing or BIM model, to the exact specified field location. Theometrics' technology also enables exact, automated measurement and creation of real-time 2D or 3D CAD drawings in the field. Theometrics is the first and only company in the world to establish this Missing Bridge™ between CAD and the field: the transfer of CAD design precision to and from the construction site in real-time.*