





ITD is a building envelope design, engineering, and consulting studio.

System manufacturers, glass suppliers, designers, and installers hire us for 3 main reasons: System manufacturers, glass suppliers, designers, and installers hire us for 3 main reasons:



...at a very competitive price...

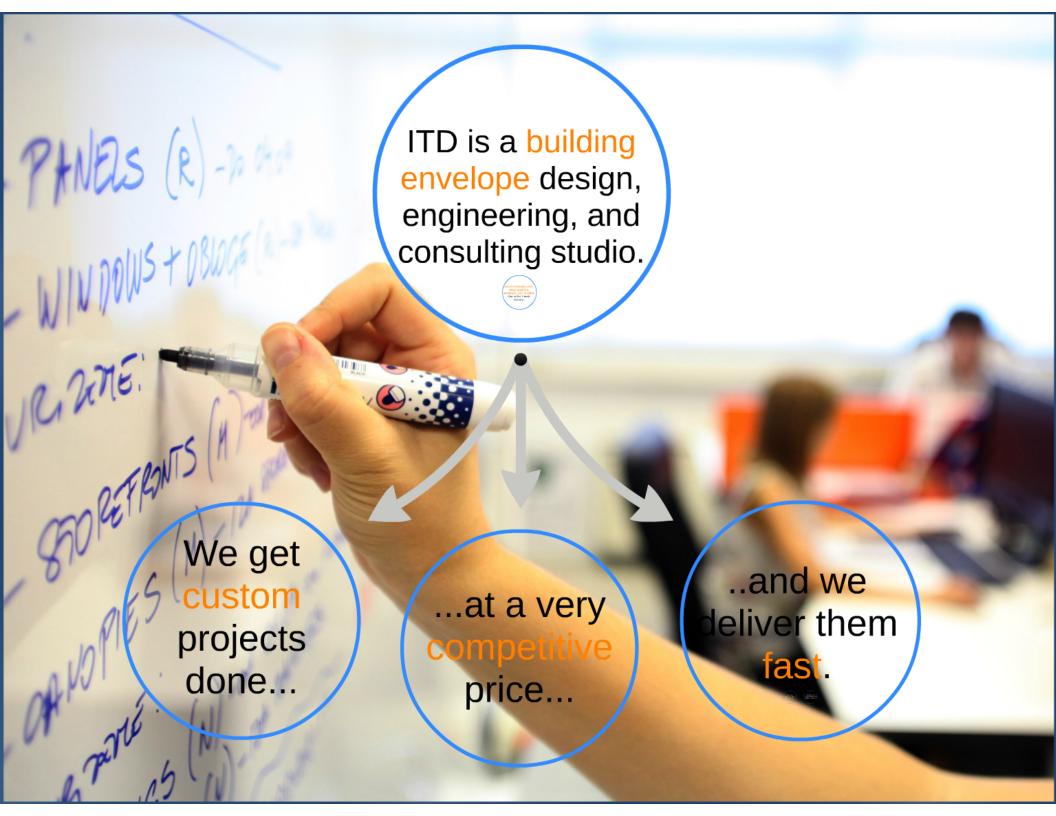
and we deliver them fast.



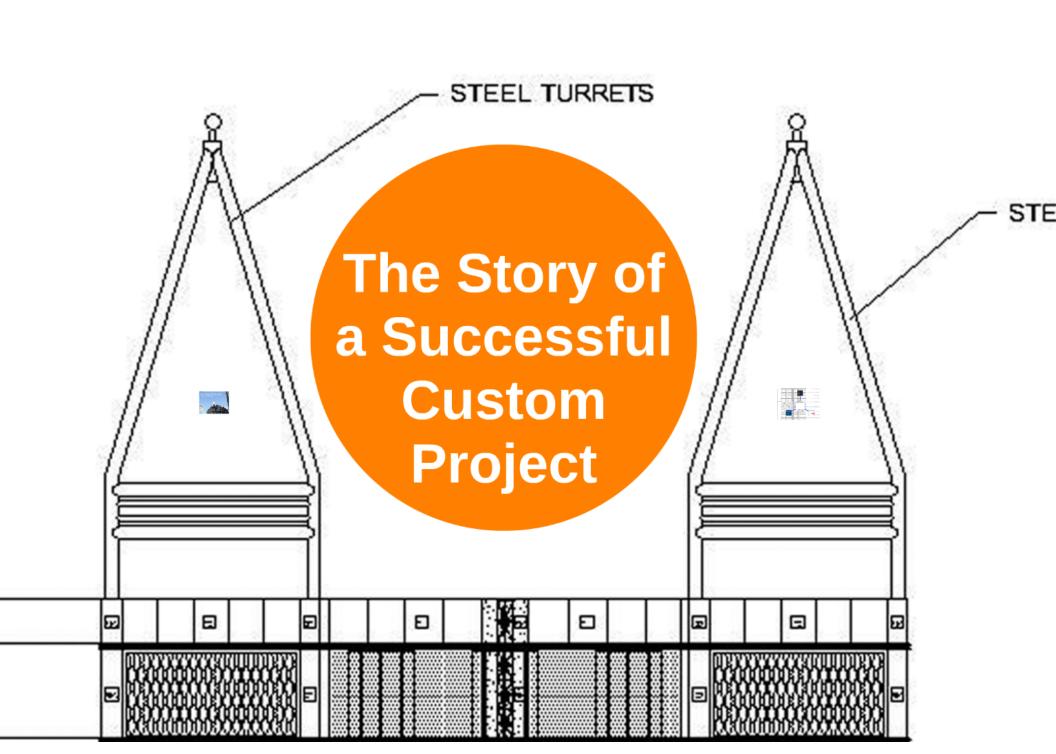


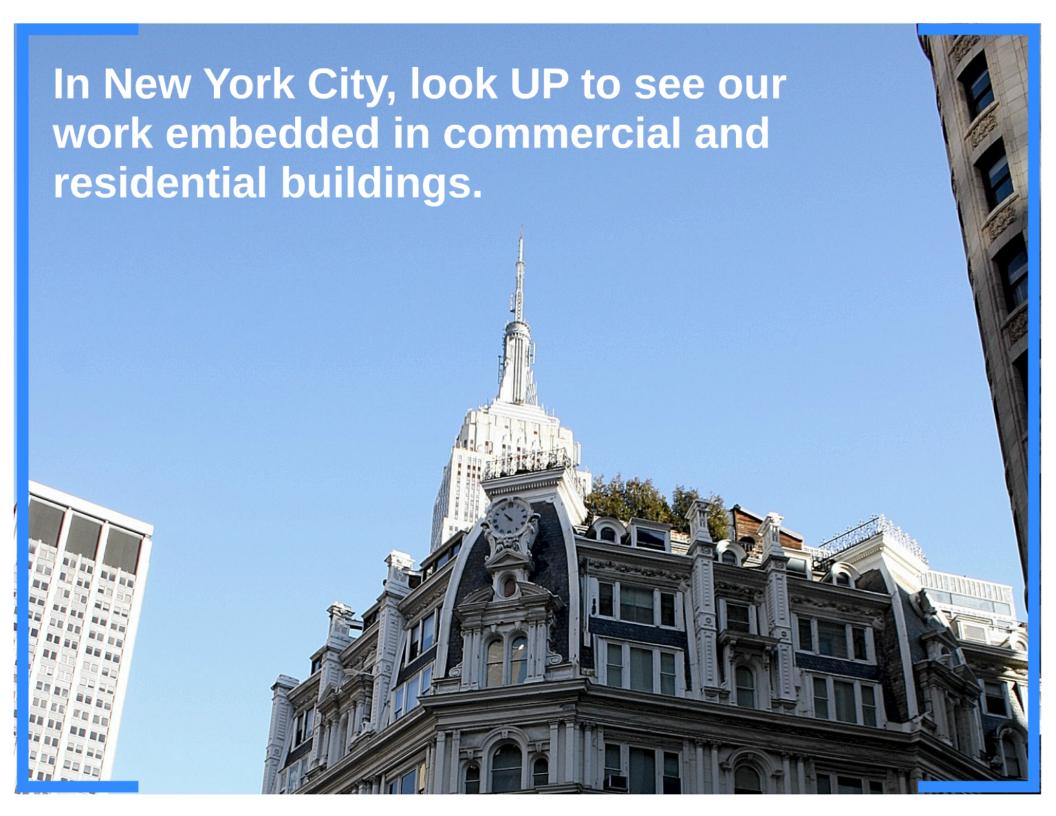
We send QUOTES within 24-48 hours.

We finish most custom PROJECTS within 2-4 weeks.

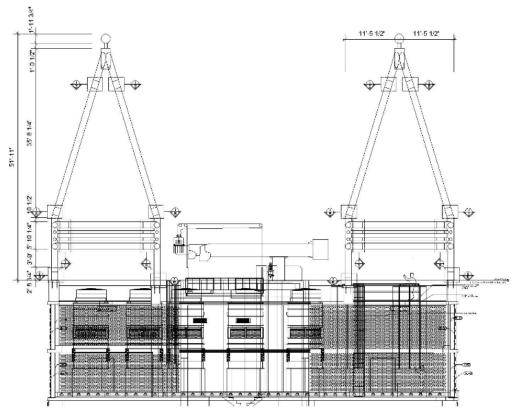








Custom Steel Turrets Atop of the 51-Story Tower of The Beekman Hotel

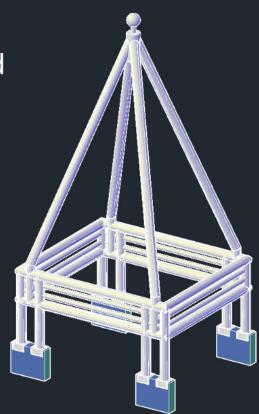


Client: Crowne Architectural Systems

Results

We designed, engineered, manufactured, and delivered the custom steel turrets in only 45 days.

Our client received every piece of our documentation ahead of schedule.



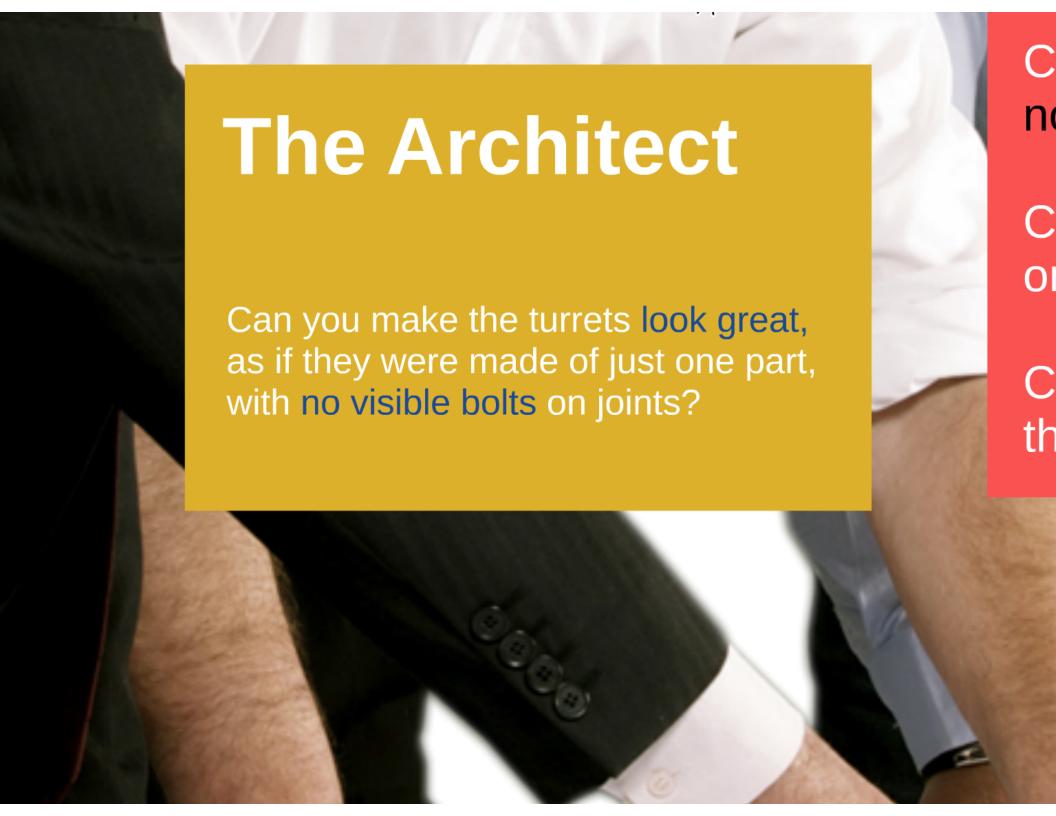
The Challenge



The Investor

How can we lower the construction price?

Can you complete it ahead of schedule? We're in a rush.



The Installer

Can you design the modules not too big and not too small?

Can you make the turrets easy to assemble on-site, using only bolts and without welding?

Can you manufacture the turrets and ship them to NYC?

We can!



The Challenge

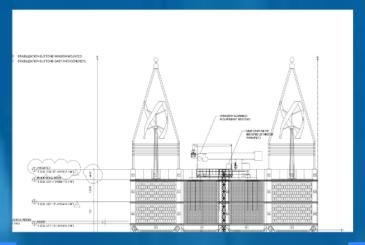




1 Design

We can work with any system, any material you choose. Or let us choose for you.

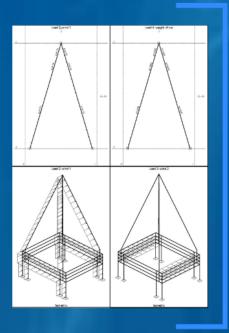
Our client showed us this architect's sketch and asked us to assist them in designing the actual structure.



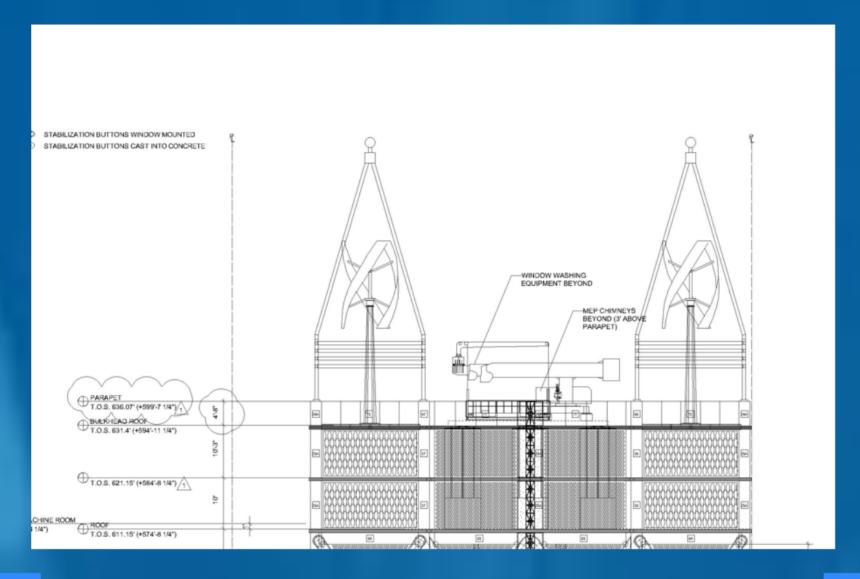
Our solution was to:

- propose steel as the material of choice
- custom-design the unique steel turrets
- provide structural analysis services



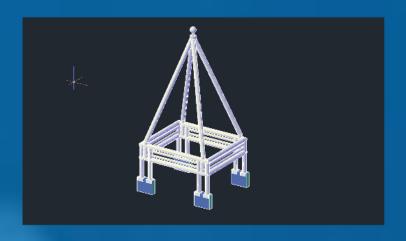


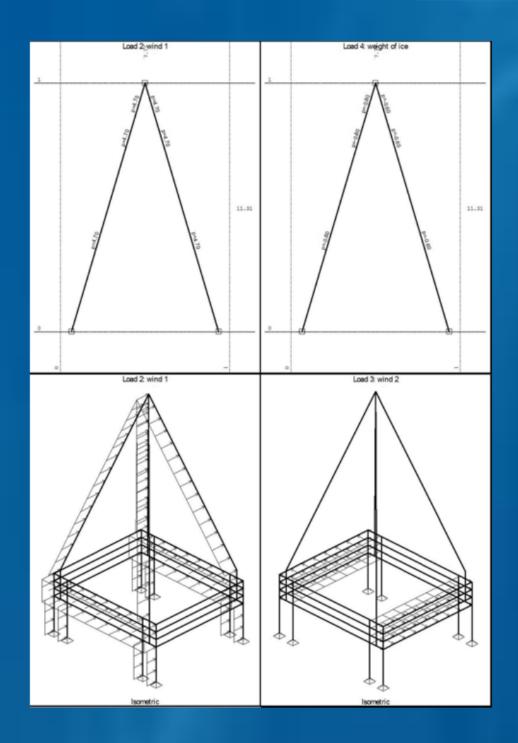
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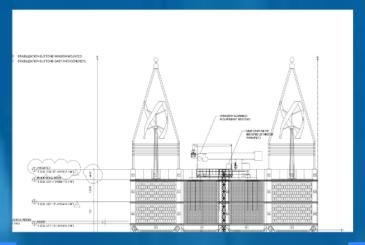




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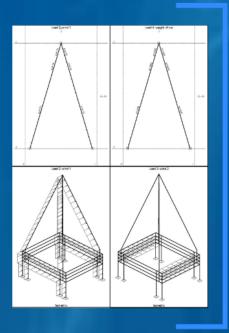
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2

Engineering

Our fabrication drawings and shop drawings had to solve two challenges:

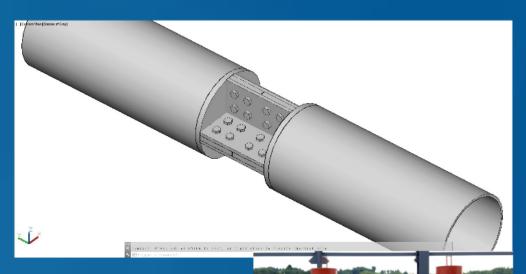
Make the turrets easy, quick and costeffective to assemble.



The turrets must look great.

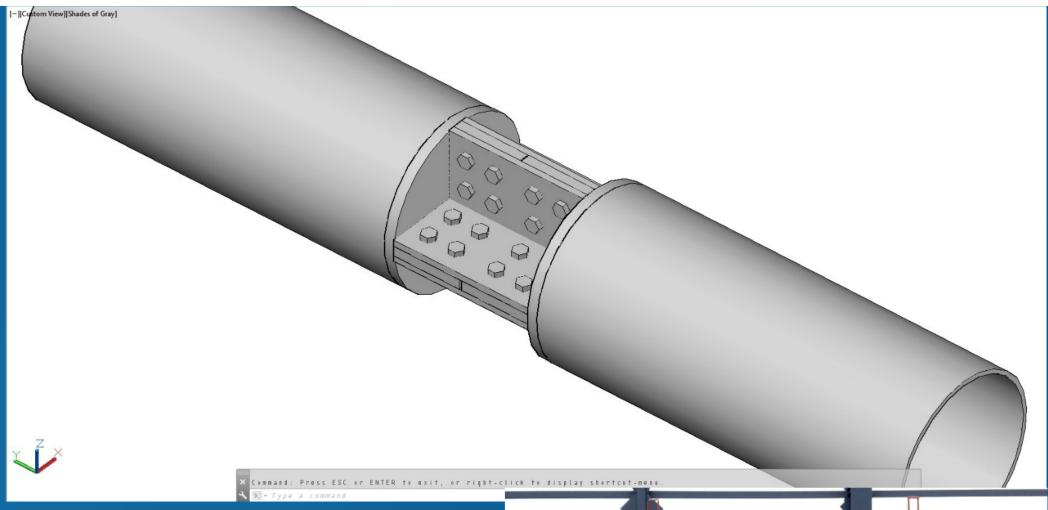


Make the turrets easy, quick and cost-effective to assemble.



Our modular design ensured that the parts are easily bolted together with no welding on the construction site.

We engineered the parts large enough for cost-effective assembly yet small enough to fit in a shipping container.

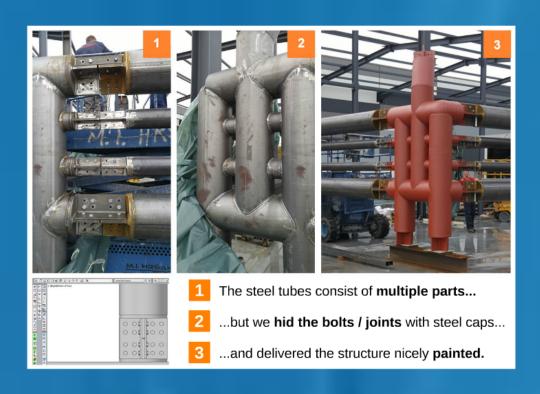


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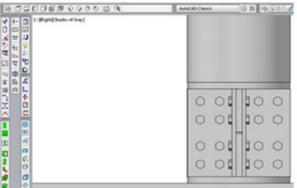
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- 1 The steel tubes consist of **multiple parts...**
- ...but we **hid the bolts / joints** with steel caps...
- ...and delivered the structure nicely **painted.**

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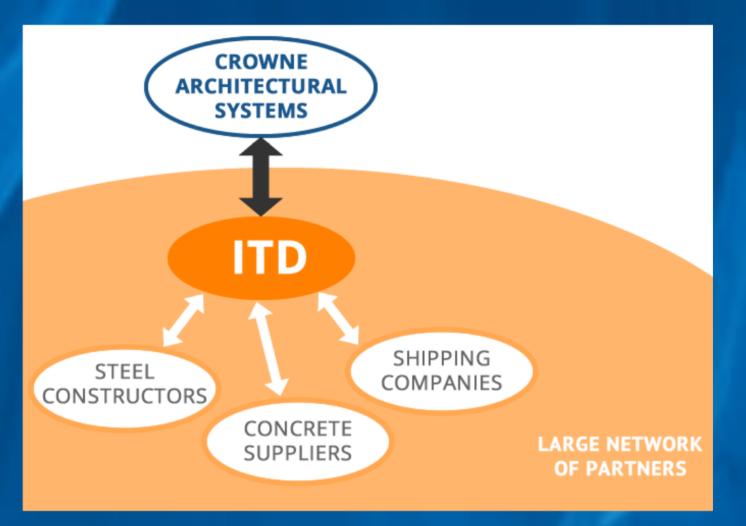


3

Coordination

Hardly any construction project would be too much for our large network of independent professionals that we can activate quickly.

We can do that because since 1990 we've been part of the AluK Group, one of the leading European brands of high quality systems for aluminium windows/ doors and curtain walls.





Manufacturing

1. Sample Approval



Only high quality steel was used in manufacturing.

2. Fabricating Parts



No welding on-site will be needed.

3. Polishing to Perfection



No painting will be needed on the construction site.

Preassembling Before Shipping



That night, after having inspected the preassembly, our client slept peacefully.

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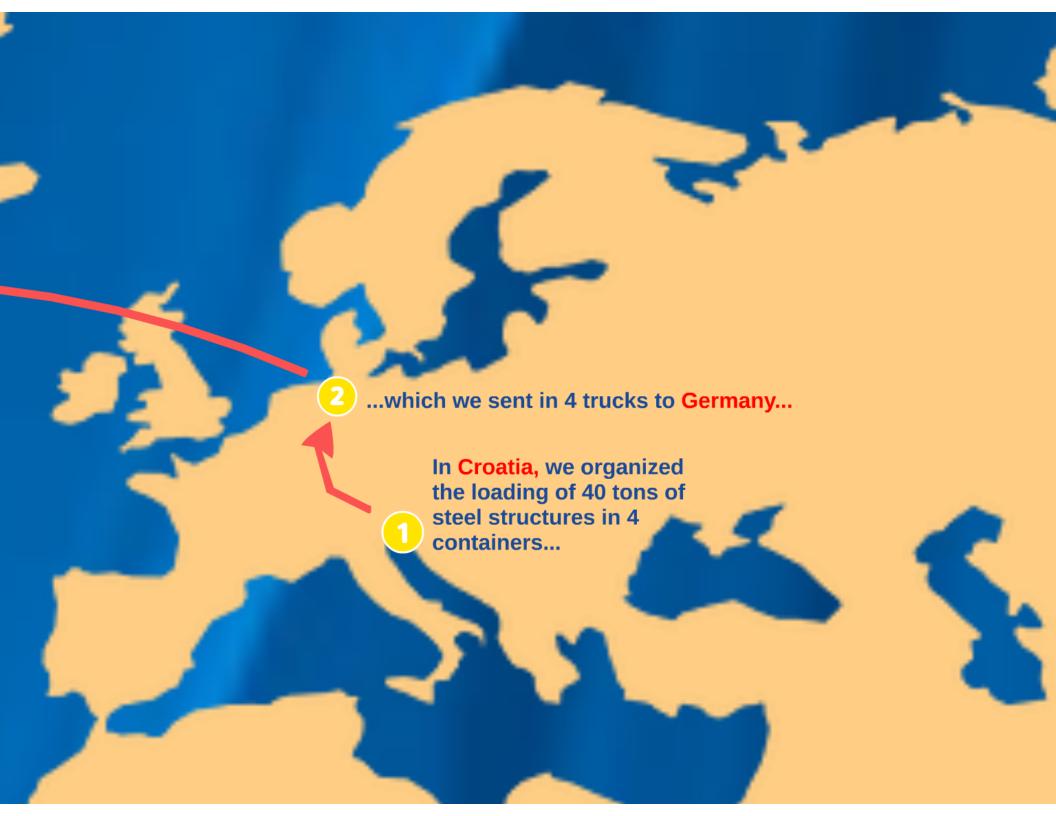
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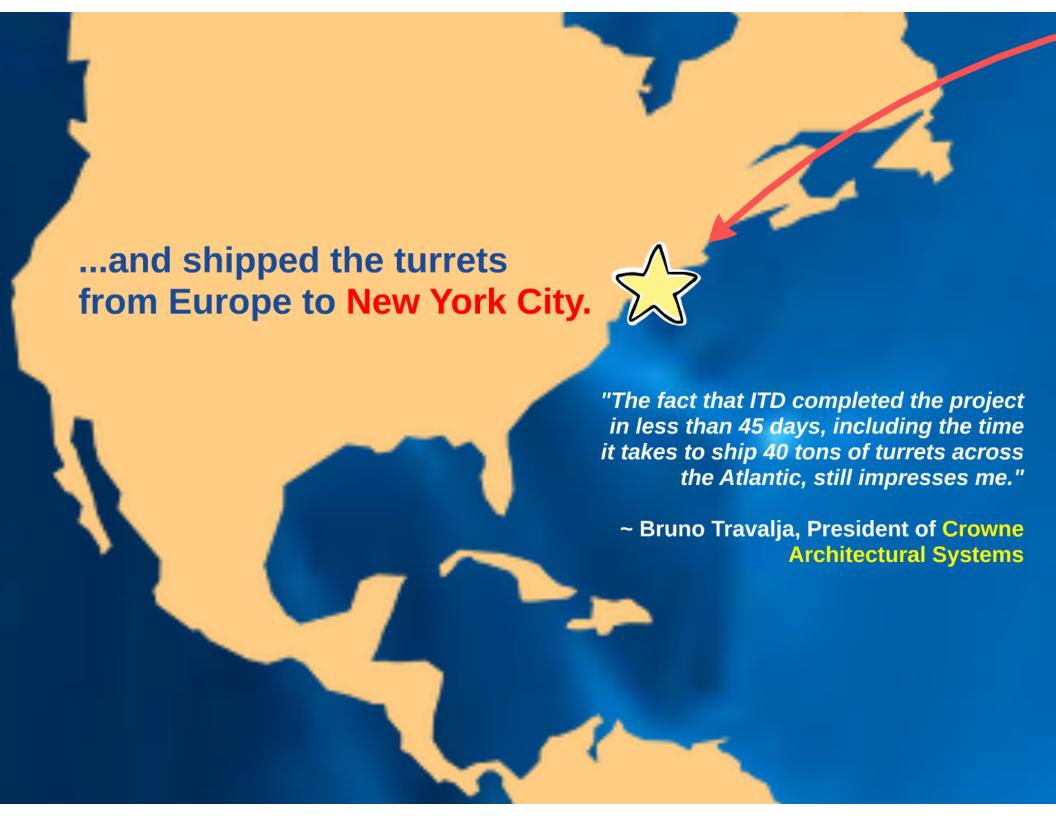
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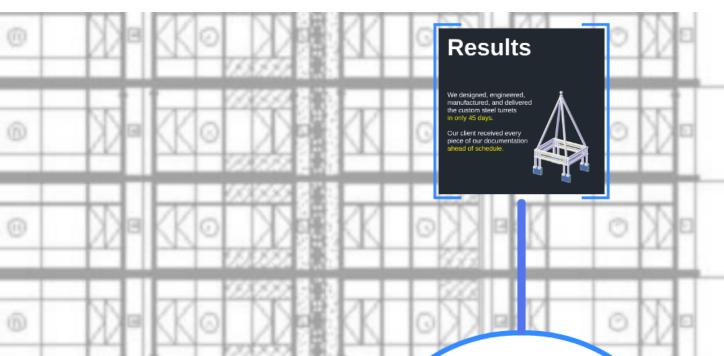
6

Supervision

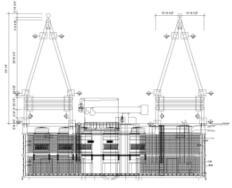
Two engineers who participated in constructing the turrets traveled in September 2015 to NYC for on-site installation support.







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of The Beekman Hotel



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The Challenge

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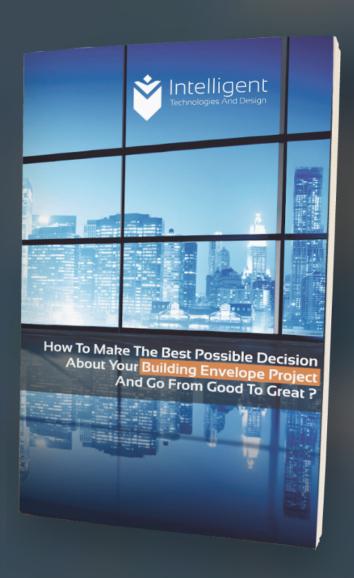
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View other successful projects and download our brochure on our website:

http://www.itd.systems









What is the most important thing about building envelope projects for you?

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