All Aboard Florida’s Miami Central Station
1,715
EMPLOYEES NATIONWIDE

$3b
PRIVATELY HELD COMPANY

$450m
BONDING CAPACITY

Markets

SECTORS
COMMERCIAL
HEALTHCARE
EDUCATION
SCIENCE + TECH
GOVERNMENT
AVIATION
GAMING

LOCATIONS
NORTHEAST
Boston
New York

SOUTHEAST
Estero
West Palm Beach
Miami
Tampa

WEST REGION
San Francisco
Los Angeles
San Diego

WHO WE ARE
Our culture is defined by our three company strategies.

Empower our people.
Enhance the power of innovation.
Engage in the community.
All Aboard Florida’s Miami Central Station
AAF Project Facts

- Southern most stop for Brightline’s high speed rail
- Elevated rail platform spanning 5 blocks
- Two residential towers (30 and 35 story apartments)
- One office tower (12 story)
- $500M Construction Costs
500 Precast beams (FIBs), 7,100 tons rebar
7,300 tons steel & 4,500 embedded plates
Sidmore Owens and Merill’s vision

A Grande Civic Gesture

....and a concrete structure that supports a locomotive
Managing with collaboration and innovation

• Implementation of Lean Processes
• Virtual design everything from the beginning
Build the Target Value Design Team

Element/Task Team Organization
(Skin Example)

- Task Team (Curtain Wall)
- Task Team (PreCast)
- Task Team (Waterproofing)
- Task Team (Canopy)
- Task Team (Cladding)
# SET THE TARGET

## Architectural Precast Concrete

<table>
<thead>
<tr>
<th>SPEC</th>
<th>Description of Work</th>
<th>Total</th>
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<tbody>
<tr>
<td>3500</td>
<td>Full Rack Ribs</td>
<td>2,296,800</td>
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<td>Short Ribs</td>
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<td>3500</td>
<td>End Ribs</td>
<td>184,536</td>
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<td><strong>Total Architectural Precast Concrete</strong></td>
<td><strong>11,795,256</strong></td>
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Total transparency builds trust

Original 50% Design with our estimate below

- 14,745 cu.yds
- $800/cu.yd.

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<th>Architectural Precast Concrete</th>
<th>1,914 cu/yd</th>
<th>800.00</th>
<th>1,531,200</th>
<th>957 cu/yd</th>
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<td>TOTAL Architectural Precast Concrete</td>
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<td>7,603,504</td>
<td>3,831,752</td>
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Volume Studies Prior to design

Original Concept

STEEL TRUSS WITH PRE-CAST CONCRETE CLADDING

Case #1
“RIB” CONCRETE VS. “V” CONCRETE

Current 100% Schematic Design with model quantities

• +/- 21,000 cu.yds
Collaborating to Solve the Big Challenge

PRE-CAST CONCRETE SKIN STRUCTURE

<table>
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<tr>
<th>MEMBER NUMBER</th>
<th>MEMBER WEIGHT</th>
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Virtual Design and Construction

• Radar Imaging and Point Cloud
• Logistics Plans
• Trimble™ Robotic Total Station
Use of Radar Imagining and Cloud Pointing
Final Location of AAF Structure

Metro Mover Wilkie Ferguson Station fully incorporated
Solving Problems before they exist

MDT Elevator over run clash identified by placing existing Metro Rail on the project model
Project’s Signature Designed Virtually
Project’s Signature Designed Virtually
Virtual Site Logistics
Virtual Site Logistics-Tower Crane Placement
Virtual Site Logistics-Tower Crane Placement
....What is it to me