

Florida

SMACNA Inc.

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TECH/SPEC NEWS

NEW FLORIDA MARLINS BALL PARK, MIAMI, FL



Sheet Metal Contractor: United Sheet Metal Company, Pompano Beach, FL

**NEW FLORIDA MARLINS BALL PARK
MIAMI, FL**

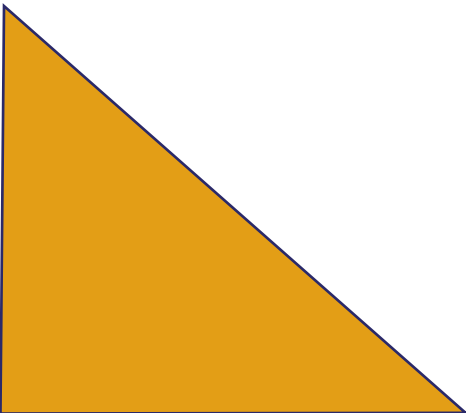


The player's locker room has custom curved linear diffusers to give the ceiling a high profile look.

Architect: Populous, Kansas City, MO

Engineer: ME Engineers, Wheat Ridge, CO

Sheet Metal Contractor: United Sheet Metal Company, Pompano Beach, FL



This \$7 million sheet metal project required United Sheet Metal Company, Pompano Beach, Florida, to fabricate and install all the duct work on the new Florida Marlins Baseball Park.

Duct work included galvanized single wall, double wall, round and oval.

Over 600 feet of 60" round doublewall and 82/38 oval double-wall duct is exposed to the playing field. In addition, over 100 Greenheck fans louvers, fire dampers, smoke dampers, fire and smoke dampers were installed.

The project posed several challenges which consisted of

NEW FLORIDA MARLINS BALL PARK MIAMI, FL



coordinating the project within the computer 3-D model; getting material ordered and received in a timely fashion so other trades were not hindered in performing their work; and coordinating and working in the tight ceiling spaces with multiple contractors at the same time.

Additional coordination efforts and extra duct work fittings were necessary to make the duct work follow the contour of the building. And finally, as a result of the pre-cast seating above, there was a lack of

ceiling space on the first level which had to be addressed by coordination with other trades. Duct work was re-sized to accommodate lowered ceiling heights and to allow space for other trades.



**CUSTOM HAMMERED COPPER HOOD AT THE WYNDHAM HOTEL
BONNET CREEK, ORLANDO, FL**



General Contractor: Welbro Building Corporation, Maitland, FL
Sheet Metal Contractor: Vickers Metal Works, Inc., Orlando, FL

The scope of this project, completed in July, 2011, by Vickers Metal Works, Inc., of Orlando, Florida involved the fabrication and installation of this custom hammered Copper Hood, which has copper cladding and stainless steel wrap, at the Wyndham Hotel at Bonnet Creek.

The hood is three-sided, 15 ft x 14 ft x 15 ft ... x 42 3/4" high. It is constructed of reverse hammered



**CUSTOM HAMMERED COPPER HOOD AT THE WYNDHAM HOTEL
BONNET CREEK, ORLANDO, FL**



copper panels (rigidized 1-HM Pattern) with a custom antique finish and clear coat by American Metal Refinishers.

The panels and top crown molding were custom formed and installed over sub-framing.

Two-inch by one-eighth steel flat bar strapping was formed, painted black, and attached along the 6 3/4 inch face and at equal intervals around the hood using custom large head decorative fasteners, as required.

The bottom and interior of the hood were wrapped with 18 ga #4 (304) stainless steel to close off the area around the kitchen.

A total of 335 man hours were required for fabrication and installation of this project



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OTHER CONTRIBUTORS TO THE FLORIDA SHEET METAL INDUSTRY

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Apollo Construction & Engineering

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Florida Metal Art

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SDB Engineers and Constructors, Inc.

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BUILDING SYSTEMS ANALYSIS AND RETROFIT MANUAL, 2nd EDITION

The second edition of the Building Systems Analysis and Retrofit manual, published 2011, provides methods to access the major energy using elements of an existing building—electrical (lighting and motors) and HVAC.

It provides a process that begins with a walk-through audit. Methods discussed include using building systems automation, envelope improvements, and demand control

strategies including thermal energy storage.

Contractors interested in new opportunities will find market entry guidance and ideas to assist them in the development of new business strategies that target the renovation of existing buildings.

Existing buildings are often located near public transportation and development typically occurs on a

building's existing footprint. These two "green" drivers may combine with basic economic factors to produce a compelling incentive for many prospective building owners to choose renovation of an existing building over the construction of new facilities.

List price: \$124.00; Discount price: \$86.00 Hard Copy. To order go to www.smacna.org

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SMACNA'S CONSTRUCTION STANDARDS

- Accepted Industry Practices for Sheet Metal Lagging.
- Architectural Sheet Metal Inspection Guide.
- Architectural Sheet Metal Manual, 6th edition 2003
- Fire Smoke and Radiation Damper Installation Guide for HVAC Systems.
- Guide for Steel Stack Construction.
- Guidelines for Roof Mounted Outdoor Air-Conditioner Installations.
- HVAC Duct Systems Inspection Guide.
- Kitchen Ventilation Systems & Food Service Equipment Fabrication & Installation Guidelines.
- Residential Sheet Metal Guidelines.
- Seismic Restraint Manual: Guidelines for Mechanical Systems.
- Sheet Metal Welding Guide.

- Standard Practice in Sheet Metal Work.

SMACNA'S DESIGN GUIDES

- Duct System Calculator - Imperial + Metric
- Ducted Electric Heat Guide for Air Handling Systems.
- Guidelines for Change Orders
- HVAC Systems - Duct Designs.

SMACNA'S DUCT STANDARDS

- Accepted Industry Practice for Industrial Duct Construction.
- Fibrous Glass Duct Construction Standards.
- HVAC Air Duct Leakage Test Manual.
- HVAC Duct Construction Standards - Metal and Flexible.
- Rectangular Industrial Duct Construction Standards.
- Residential Comfort System Installation Standards Manual.
- Round Industrial Duct Construction Standards.

- Round Industrial Duct Construction Standards (RIDCS) Software Version 2.0.
- Thermoplastic Duct (PVC) Construction Manual.
- Thermoset FRP Duct Construction Manual.

SMACNA'S ENVIRONMENTAL PUBLICATIONS

- Building Systems Analysis and Retrofit Manual.
- Energy Systems Analysis and Management.
- HVAC Sound & Vibration Manual
- HVAC Systems - Applications.
- HVAC Systems - Commissioning Manual.
- HVAC Systems - Testing, Adjusting & Balancing.
- IAQ Guidelines for Occupied Buildings Under Construction.
- Indoor Air Quality - A Systems Approach.
- TAB Procedural Guide.

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