

# MAKING BUILDINGS BETTER



## FIREKEEPERS CASINO BATTLE CREEK, MI

**Owner:** Nottawaseppi Band of Huron Potawatomi Indians

**Architect:** Perez APC (New Orleans, LA)

**Mechanical Engineer:** Harwood Engineering (Milwaukee, WI)

**Mechanical Contractor:** John E. Green (Lansing, MI)

### **Customer Challenges:**

The challenges casinos face today are energy costs, indoor air quality, and space comfort. Casinos are open for business 24/7 and generally allow smoking in most areas. Comfortable, smoke-free areas are very important to keep customers in the casino spending money.

### **Trane Solutions to the Challenges of the Project:**

Trane's solutions to help meet the casino's challenges are IntelliPak rooftop units with Semco energy recovery wheels in the gaming area. This solution provided substantial first cost savings compared to the original hot water/chilled water central plant system. It also allowed for 100% outside air to be delivered to the gaming area, keeping the space free of re-circulated smoke. The Semco energy recovery wheels will save large amounts of electrical and natural gas energy cost each year.

### **Measurable Results:**

This project is in construction with a targeted completion date of August 20, 2009. When complete and operative, it will be easy to calculate the energy savings due to the energy recovery wheels.

### **General Description of the Building:**

This facility is approximately 200,000 square feet with 150,000 square feet being gaming area and 50,000 square feet being "back of house" area; meaning offices and restaurants.

### **Why the Customer Chose Trane:**

The customer chose Trane for this project because the Trane offering was a cost-effective; energy-efficient way of achieving high indoor air quality and comfortable spaces. Another major factor here was the reliable, robust Semco energy recovery wheel. The customer felt that this product was "best in class" and he wanted it to be part of the project.

### **Trane Equipment/Controls:**

#### **Gaming Area:**

14 -Trane 90-ton Intellipak Rooftop Units with Semco energy recovery wheels.

#### **Back of House:**

29 Trane Precedent & Voyager Rooftop Units



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