

Crystal Lake Elementary School



Project Team

Owner	Seminole County Public School
Architect	Shenkel Shultz
MEP	Matern Engineering
Structural	Burton, Braswell, Middlebrook
Contractor	R.E. Harris Construction

Architecture

- 11 acres of land in the residential area of Lake Mary, FL
- Exterior Walls: Red Brick Veneer, with one row of yellow soldier brick located above all rectangular walls
- Roofing Material:
 - Main and Exterior Covered Play Area: Prefinished 24 gauge standing seam metal deck with a 1/6 slope
 - Covered Entry: Metal deck on pre-engineered metal trusses
 - Exterior Covered Walkways: Flat roof of pre-engineered aluminum canopy system

Structural

- Reinforced concrete slab with vapor barrier
- Foundation supported by reinforced concrete footings
- Composite steel floor system
- Pre-fabricated cold formed steel truss system

Building Statistics

Location	Lake Mary, FL
Size	113,927 S.F.
	2 Stories
Cost	\$11,765,100

Mechanical

- Four air handling units located in three different mechanical rooms on the first floor
- Two air handling units located in two different rooms on the second floor
- Two air cooled rotary screw compressor chillers located outside the building to provide cool air to the building
- Centrifugal Kitchen Exhaust Fan

Lighting

- Variety of Luminaires
- Variety of light sources including fluorescent, incandescent, HID, and LED lamps
- Battery powered emergency light sources include incandescent and fluorescent lamps

Electrical

- Pad Mounted Transformer provided by Utility: 277/480V, 3 Phase, 4 Wire
- 125 KW Emergency Diesel Generator: 480/277V, 3 phase, 4 Wire