

Cypress Hill Elementary School

Bridgeport, Texas



Building Overview

Location: Bridgeport, Texas

Building Occupant Name: Cypress Hill Elementary School

Occupancy Type: Occupancy type 'E', Educational

Levels Above Grade: Two

Construction Time Frame: 9/7/2012 – 11/26/2013

Building Cost: \$82.3 Million

Project Delivery Method: Design-Build

Total Gross Area: 115,000 Square feet

Building Team

Owner: Cypress Hill Elementary School District

Architect: Pfluger Architects

Mechanical/Electrical/Plumbing Engineering: DBR Engineering Consultants

Structural Engineering: CJG Engineers

Technology: DBR Engineering Consultants

Construction: Durotech

Mechanical

- Served by ten variable air volume air handling units.
- Four constant volume air handling units with VFDs served the kitchen and cafeteria.
- Dual Duct mixing boxes used throughout the school.
- Two 226 ton chillers serve the entire school.

Structural

- Steel column/beam system supporting k-series floor/roof joists.
- The first floor is slab on metal deck floor.
- Diagonal brace frames used for lateral loads.
- Foundation is concrete piers.
- Ground floor is 5" thick concrete slab on grade.

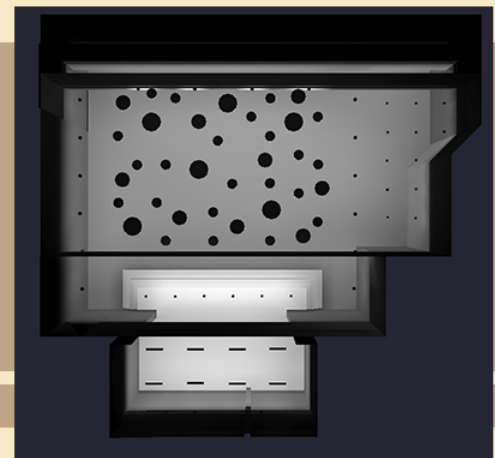


Lighting

- Media center, cafeteria, corridor and vestibule have over reaching lighting design.
- Most luminaires are recessed compact fluorescent down lights.
- Emergency luminaires powered via relays.
- Metal halide source luminaires located in media center.
- Incandescent source luminaires located in cafeteria for stage.

Architecture

- South façade is curved with large curtain walls.
- Façade has a stone finish with limestone veneer around the bottom 2' perimeter.
- Double ceiling height in the media center/library.
- Cafeteria has stage and doubles as assembly area.



Nicholas Stuchlak | Lighting/Electrical Option

<http://www.engr.psu.edu/ae/thesis/portfolios/2014/nqs5080/index.html>