Ceco Building Systems
an NCI Building Systems Company

CASE STUDY: **City of Greenville Public Works Campus**

PROJECT SPECS

Ceco Products:
CFR Panel, 7.2 Insul-Rib™,
Striated Panel

Location:
Greenville, S.C.

Color:
Kynar Polar White,
Slate Gray and Tundra

Square Footage:
100,000 +

Architect:
DP3 Architects,
Greenville, SC

Steel Erector:
ProSteel,
Clover, SC

General Contractor:
Harper Corporation,
Greenville, SC

Manufacturer:
Ceco Building Systems,
Rocky Mount, NC

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05/18

In May 2016, the City of Greenville, S.C. contracted with DP3 Architects of Greenville, Harper Construction of Greenville and Ceco Builder ProSteel of Clover, S.C., to build their new facility. The campus for the City of Greenville Public Works is the epicenter from which the city's infrastructure is managed. The City of Greenville's mission is to enhance the city's quality of life through effective environmental and infrastructure management including the collection and disposal of residential solid waste.

PROBLEM

The main goal was to find a building that complemented the public services industry for the City of Greenville. The current operations were dispersed throughout the city in older facilities that needed major updating. A central location would allow for more efficient operation and communication. The city originally wanted a 50-year building that was sustainable. Therefore, an energy efficient, economical and multi-purposeful design was pertinent.

SOLUTION

Ceco Building Systems, ProSteel, Harper Construction and DP3 Architects collaborated on the City of Greenville Public Works Campus. The City of Greenville and DP3 Architects opted for a custom metal building for the majority of its campus rather than a complete conventional construction build. The reasons for choosing metal for the project included a more economical solution and a faster erection schedule. The project encompasses four new buildings for the city, including facilities for administration, operations (streets, storm water and solid waste), fleet services and fuel services/truck wash. Clearstory frames are used on most of the building to allow for natural lighting. The 50,000 sq. ft. fleet services building's purpose is the housing of all the maintenance and heavy mechanical machinery and vehicles for the city. The 30,000 sq. ft. operations building houses administration offices, training space and workshops. Both the fleet services and operations buildings have multi-span rigid frames. The administration building is 15,000 sq. ft. of administrative services space. The last building is the fuel island and fuel truck wash building utilizing 3,000 sq. ft. of roof panels.

For the roofing system, DP3 Architects and Harper Construction decided on 101,200 sq. ft. of Ceco's CFR insulated metal roof panel in Kynar Polar White. The white roof contrasts well with the gray building wall panels and promotes sustainability by being highly reflective of the sun therefore reducing the solar heat gain. The CFR IMP also offers a superior R-30 value, ultimately enhancing energy performance. For the building's walls, 35,700 sq. ft. of the 7.2 Insul-Rib™ and Striated insulated wall panel were chosen. With a R-21 value, the 7.2 Insul-Rib™ and Striated IMP's provide another effective measure of energy efficiency. The two IMP's were laid out in both a horizontal and vertical fashion. With various color changes of the Signature 200 Slate Gray and Tundra, the City of Greenville achieved a clean, modern look to their campus buildings. The combination of various profiles of roof and wall insulated metal panels give the campus an energy efficient and sustainable metal building envelope.

The partnership between the City of Greenville, DP3 Architects, Harper Corporation, ProSteel and Ceco ensured everyone was on the same page to make the project a success. Each party involved understood the City of Greenville's vision and collaborated to come in under budget and ahead of schedule. The end result was a state-of-the-art building that combined steel with architectural aspects and design. Construction began in May 2016 and completed two months ahead of schedule in October 2017.