Central Florida Field Trip

The CFFT included a full-day tour for civil engineering students from four of Central Florida's Engineering Universities – Polytechnic University of Puerto Rico (Orlando Campus), Embry Riddle Aeronautical University, University of Central Florida and Florida Institute of Technology and. Approximately 45 students visited four local engineering projects

Sanford Public Safety Complex

Consists of three buildings under construction; Police Department Headquarters, Fire Department Headquarters, and Antique Museum/Community Center. Project Highlights: Antique Museum to house an antique Fire Truck and Police Car, antique slide pole. Driveway Five Bay Fire Department Apparatus Bay w/ epoxy floor. Stainless Steel Staircase in Lobby. Impact Resistant Glazing. Bulletproof Window at Reception Counter.

Sanford Manufactured Gas Plant

Sanford Manufactured Gas Plant Site: The project is a EPA CERCLA project where roughly 100,000 cubic yards of soil are being remediate using in situ stabilization and solidification (ISS) technology. The project also requires an open channel stream to be converted in certain segments to a box culvert and then back into a rip rap open channel.

Orange County Landfill

The Orange County Solid Waste Facility is the third largest landfill in Florida. The electricity generated from the landfill gas is estimated to power 13,000 homes and reduces methane emissions by nearly 31,000 tons per year at full capacity. It is designed to extract up to 7.9 million cubic feet per day (MmCFD), landfill gas is processed and piped directly to the Orlando Utilities Commission Stanton Energy Center where it is co-fired with coal to create steam and produce electricity. The Orange County Landfill currently accepts over 3,100 tons of waste per day. The solid waste division is responsible for managing the residential garbage, yard waste, and recycling collection program for single-family homes in unincorporated Orange County, that's approximately 196,628 homes.

ICP Master Pump Station

The ICP Master Pump Station is being constructed to provide additional wastewater pumping capacity to a portion of the Eastern service area located south of the Beeline Expressway and east of the SR 417. The pump station will provide for future transmission capacity and improve the hydraulic conditions in the Eastern service area. The project includes the design of a new master pump station with a peak flow of 6,000 gpm. OCU standards include site evaluation, electrical and instrumentation, SCADA, wetwell and structural design, mechanical and pumping system equipment, site work, CMU block wall, emergency generator, diesel fuel storage tank, and odor control system. The project will also require the design of a new piping connection to the existing gravity collection and transmission systems, and demolition of obsolete equipment and facilities the design must includes provisions to provide uninterrupted wastewater service during construction.

Universities Mixer