A few facts…

- Founded in 1911
- Founded because of a conflict between the United Methodist Church and Vanderbilt University. In 1914 the church and Vanderbilt cut ties and made SMU its flagship institution
- Enrollment of nearly 12,000
- Approximately 7M Square Feet making up over 100 buildings
- $1.8B Endowment
- Ranks in the top 10% of U.S. universities and top 15% of global universities.
- Ranks #6 of “The 20 most beautiful college campuses in America.”
The Challenge

Limited Funds
Smaller Less Skilled Staff
Little to no Preventative Maintenance

Reactive Maintenance
Leads to...
Deferred Maintenance
The Approach

Mechanical
Electrical
Other Infrastructure

Evaluate
Invest
Analyze
Design

Charter
• Determine what it will take to bring campus up to modern day/maintainable standards
• Provide solutions that will help future proof facilities
• Identify long-term O&M cost reductions
• Improve campus efficiency while maintaining comfort
• Campus safety and security is paramount
The Findings

- 12,000ton Central Plant
- Expressway Tower
- Building Mechanical Systems
  - Coils
  - AHUs
  - Electrical Gear
- Utility tunnel systems
- Meters
- Utility Billing and procurement
- Lighting
- Fire Alarm systems
Execution

- Central Plant
  - New Chillers, Pumps, Cooling Tower, Electrical Gear, AHU’s, Boiler
- Fault Detection and Diagnostics
- Tunnel Evaluation, Arc Flash Study, and Repairs
- Equipment Tagging
- East Tower Plant Replacement
- Campus Wide Electrical Evaluation and Repairs
- West Campus Mechanical System Upgrade
  - New AHU’s, pumps, VFD’s, valves, bearing, fans, dampers, insulation, etc.
- Campus Wide Meter program
- Fire System Upgrades
- Steam Trap and Heat Exchanger Repairs
- Automation System Expansion and Replacement of 11 Obsolete Systems