

Manufacturing

Whether constructing a new facility or updating an existing one; the manufacturing industry depends on productivity, functionality and versatility to protect their bottom line and those factors can not be limited by the building systems or controls. Building systems and controls for these facilities need to be designed with these factors in mind to support not only the current needs, but the future demands.



Design Tree Engineering & Land Surveying is here to assist the manufacturing industry in keeping their facilities running like a well-oiled machine. Improperly sized equipment or lack of redundancy can slow the facility's operations or bring it to a grinding halt, either of which affects the productivity of the facility and its financial viability. By listening to our Client's expectations and their future needs, Design Tree has successfully planned, designed and constructed millions of dollars worth of infrastructure improvements for manufacturing facilities.

Design Tree has the ingenuity to come up with solutions that will allow facilities to grow into their systems without being crippled by low equipment efficiency or high operation and maintenance costs. By looking at the current and future needs of a facility, Design Tree can make recommendations for the use of variable speed drives, providing space for additional ventilation fans, oversizing of ductwork or piping, etc. This thought-process and method of design allows a facility to meet their current demands, but also allows room to grow in the future without having to take critical equipment off-line and inhibiting production. All of these are critical to the productivity, functionality and versatility of the facility and therefore to business's bottom line.

Everyone involved in a project from the Client to the Client's staff to contract workers receive the utmost respect from Design Tree.

Mechanical Engineering

HVAC & Plumbing Design
Hydronic Heating & Cooling Systems
Forced Air Heating & Cooling Systems
Geothermal Systems
Steam & Condensate Systems
Humidification & Dehumidification
Compressed Air & Gas Systems
Building Control & Automation
Plumbing Systems
Specialized Exhaust Systems
Process Piping & Pump Systems
Commissioning & Recommissioning
Energy Analysis

Electrical Engineering

Electrical Power Systems
Emergency Power Systems
Communication Systems
Lighting & Lighting Control Systems
Fire Alarm Systems
Life Safety Systems
Security Systems
Data Systems
Telephone Systems

Civil Engineering & Land Surveying

Topographic Survey
Boundary Survey
ALTA/ASCM Land Title Surveys
Preliminary & Final Platting
Construction Staking
Master Planning
Permitting
Site Layout/Grading Design
Site Utility Design
Street Construction
Site Layout/Grading/Utility Design
Water Distribution Systems
Wastewater Collection Systems
Storm Water Conveyance and Treatment

