

C1S Group.

Innovative Solutions for Customer Success.

RECENT PROJECTS



FRITO LAY—North America

Headquarters Facility

- Facility security entrance upgrades
- Energy Star Certification resubmission
- Facility lighting as built documentation
- Toilet renovation design
- Design and construction management installing (2) 650 ton high efficiency chillers
- Commercial kitchen renovation design
- R&D kitchen lab design
- Design and construction management for 44 panel solar thermal water heating system
- Design and construction for cold storage underfloor solar heating system
- LEED EB Gold Certification, Energy Star Rating

Frito Lay LEED EB Certifications

- Platinum: Torrance, CA
- Gold: Jonesboro, AR; Lynchburg, VA; Aberdeen, MD; Perry, GA; Beloit, WI; Topeka, KS; Casa Grande, AZ; Irving, TX; Modesto, CA; Kern, CA

Frito Lay Manufacturing

- Facilities Condition Assessment Program – 13 site facility evaluation
- Mechanical facility standards
- Stacys Boston HVAC evaluation and design
- Warehouse roof repair construction management
- HVAC assessment and redesign and construction administration
- HVAC unit replacement management
- Foundation void investigation and repair
- Conference room lighting repair



ENGINEERING | CONSTRUCTION | SUSTAINABILITY

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- Airflow evaluation and upgrade recommendations: Canton, Williamsport, Jonesboro, York, Lynchburg
- Energy Modelling for controls upgrades- Topeka, KS
- Fryer upgrade design
- Deaerator tank installation design

PEPSICO—North America

- Office space tenant improvement design
- Kitchen renovation design
- Pony chiller design and installation
- Construction management for data center chiller installation
- LEED EB Gold: Pepsi Parkwood Plano, TX; Pepsi Bottling Somers, NY

PepsiCo LEED EB Certifications

- Gold: Pepsi Parkwood, Plano, TX; Pepsi Bottling, Somers, NY; 1111 Westchester, White Plains, NY

JOHNSON & JOHNSON—Irving and San Angelo, Texas

- Imbedded project manager to support facility operations
- Ducted Hepa replacement
- Facility security access upgrades
- Duct work re-sealing project and payback analysis
- Loading dock roll up door replacement project management
- Executive conference room renovation design and construction management
- Server room design and construction management
- Overhead door replacement and repair work
- Facility as-built documentation updates
- Air balance study
- Design for 7 oven backup generator
- Gel Fill oven installation
- Catwalk design and installation
- Packaging room upgrades
- Spray Booth Design
- Epoxy Floor replacement
- Production equipment move

Johnson & Johnson Critical Environments

- Kitting room conversion design build project
- Chilled water analysis and cleanroom expansion design
- Energy conservation measure and capital allocation study



- CO2 cleanroom design and construction
- Cleanroom gowning room renovation construction management
- Cleanroom plenum cleaning and plenum bridge construction management
- ADA facility upgrade construction management
- Air cooled chiller design and installation construction management
- Clean Lab AHU upgrade design
- Thermal oxidizer design and installation
- VLM cleanroom design and install

L-3 COMMUNICATIONS—Garland, Texas

- Project management for restroom upgrades
- Class 100 tool additions
- Concrete Work
- 15,000 sf, ISO7 / ISO5 cleanroom design and installation
 - Emergency backup power for critical clean manufacturing system
 - Deionized water system upgrade for critical clean manufacturing process enhancement
 - ADA compliance upgrade for “clean-zone” restrooms and smock /gowning area
 - HVAC system design including makeup air, recirculation air, humidification, and space cooling
 - Clean manufacturing systems design for process equipment
- 5,000 sf, ISO7 / ISO5 cleanroom design and installation
 - Design and installation of chemical storage room for hazardous production materials
 - Chilled water plant capacity investigation
 - Clean manufacturing systems design for process equipment
 - HVAC system design including makeup air, recirculation air, humidification, and space cooling

TEXAS INSTRUMENTS—Dallas, Texas

- Process systems installation for manufacturing equipment relocation
- Process chilled water system evaluation
- System utility matrix maintenance and updates
- H2SO4 bulk delivery system design
- TI DMOS 5 traffic study
- TI DMOS 6 DSB chilled water analysis
- TI DMOS 6 make up air system improvements
- TI south building fab relocation / upgrade design
- South campus heat exchanger replacement design
- TI DBUMP chemical distribution upgrade design
- RFAB—chemical delivery system design
- DMS H2SO4 bulk delivery system design



TEXAS INSTRUMENTS—Sherman, Texas

- Cleanroom as-built documentation
- Mechanical recirculation system redesign for clean areas

MEDTRONIC—Fort Worth, Texas

- ISO 8 Cleanroom Installation—design and construction
- Install cleanroom gowning and walkthrough rooms
- 4,000 sqft assembly area renovation—design and construction
- Create palletizing/storage warehouse area
- Provide interior space planning
- Determine and size HVAC systems, including root top units
- Design DDC control and monitoring systems
- Design cleanroom recirculation air system using HEPA filters
- Design plumbing systems
- Electrical system design
- Design compressed air and nitrogen service lines to work stations.
- Develop performance specifications fire sprinkler system modifications
- Fire sprinkler mic remediation
- Restroom renovations
- Vestibule installation

HOME DEPOT—Atlanta, Georgia

- Corporate office facility separation to create two addresses
- MEP verification and planning to split utilities
- HVAC Stand Alone Controls modifications sequencing
- Platting investigation
- Fire line loop modifications & interior fire sprinkler system modifications
- Exterior Storm water modifications
- Electrical and Data separation planning
- Construction management for all activities

RAYTHEON—Dallas, Texas

- MEP design for HVAC system for manufacturing area
- MEP design for cooling tower replacement (temporary cooling tower layout and piping modifications to support new installation)
- Design services for lobby renovation
- Paint booth exhaust upgrade design



- Clean manufacturing upgrade for relocation of new product group including chemical lab and DI water distribution modifications for strict specification compliance
- Chiller change-out design and construction management

REEL FX STUDIO—Dallas, Texas

- Installation of architectural feature to define entry
- Add a bathroom and break area
- Renovate the lobby and reception areas
- Recarpet the office areas
- Minimize disruption to occupied spaces

THE BOMB FACTORY—Dallas, Texas

- Demolished of existing interior infrastructure
- Removed the existing roof structure
- Design and install new HVAC and electrical systems
- Install new roof
- Install a concert stage and a mezzanine level
- Re-imagine historic building as a modern concert & events venue

ST. JUDE MEDICAL—Plano, Texas

- Restroom renovation project management
- Warehouse as-built drawing updates
- 20,000 sf, ISO7 / ISO8 medical device manufacturing cleanroom design and construction management
- Clean environment monitoring system design for FDA compliance
- Retro-commissioning support for cleanroom HVAC systems for FDA compliance
- Design of “clean-zone” for reduction of contamination
- Design and construction for 2,700 sf of semi-clean packaging / testing lab area in an existing warehouse
- Construction management for break area and kitchen upgrade
- Cadaver lab renovation construction management
- Cleanroom reconfiguration and laser room installation construction management

RECKITT BENCKISER—Fort Worth, Texas

- V-blender room design and installation
- Drying oven room design and installation
- Hazardous material dust control system design and installation
- Facility as-built verification for FDA compliance
- Design of “clean-zone” for reduction of contamination



- Design of interlocks for pressure control for ISO compliance
- Differential pressure testing and facility recommendations for FDA compliance

STION CORPORATION—Hattiesburg, Mississippi

- Design of mechanical and process systems for clean manufacturing facility
- Site engineering / design support during installation to meet critical compliance deadline

FINISAR—Plano, Texas

- Process systems installation for manufacturing equipment relocation
- Process chilled water system upgrade
- System utility matrix maintenance and updates
- Assembly room upgrade to class 100 certified cleanroom

SMITH AND NEPHEW—Fort Worth, Texas

- Cryogenic exhaust system installation
- Mothers room conversion design build
- CGMP diagram updates for FDA compliance audit
- CGMP facility as built drawing updates
- Construction management for roof replacement
- Construction management for janitor closet and lab renovation
- Drain line scoping

ADVANCED NEUROMODULATION SYSTEMS—Plano, Texas

- 20,000 sf, ISO7 / ISO8 medical device manufacturing cleanroom design and owner representation
- Clean environment monitoring system design for FDA compliance
- Retro-commissioning support for cleanroom HVAC systems for FDA compliance
- Design of “clean-zone” for reduction of contamination

ADAMS RESPIRATORY—Fort Worth, Texas

- Pharma grade V-blender room design and installation
- Hazardous material dust control system design and installation
- Drying oven room design and installation
- Fluid bed room design and construction

ADVANCED OPTICAL COMPONENTS—Allen, Texas

- Construction oversight for facility relocation
- Design and install for nitrogen / CDA / H2 bulk delivery plant
- Tool hookup design and construction management for 75 tools



TRIQUINT SEMICONDUCTOR—Richardson, Texas

- Design and construction of main cleanroom upgrades for 85 tool install
- Design and install of new H2SO4 bulk chemical delivery system
- Tool hookup design for 25 tool install

PPG COATINGS

- Ventilation modification design
- H3 fan upgrade design

UNIVERSAL NUTRIENTS

- Dry product room HVAC design
- Facility as-built drawings

ALOE VERA OF AMERICA

- Cleanroom design
- Mold remediation project implementation

TOYOTA

- Headquarter facility commissioning

WISTRON—Grapevine, Texas

- Design of HVAC / elect / arch / struct systems for 4,500 sq.ft. ISO 7/8 assembly and test cleanroom

FEDERAL HOME LOAN BANK

- Tenant improvement design build after hours and holiday renovation

LUMINANT POWER

- Ventilation modification design & monorail hoist system design

PECAN LODGE—Dallas, Texas

- 6,000 sf renovation for the #2 voted bbq restaurant in historic Deep Ellum

THE GEM

- Juice bar retail finish out

VALSPAR

- Construction management for process line improvement



WESTDALE

- Renovation and upgrade for eight buildings

NORTH TEXAS INFUSION

- Compounding pharmacy AHU replacement

INTELLI EPI

- Cleanroom design

MAPEI

- Owners representative for warehouse expansion project

