

LINE CARD OF SERVICES

HEAVY INDUSTRIAL & MANUFACTURING

- Aging Tanks/Vessels API/ASME 579
- Engineered Lift Plans
- Process Equipment Replacement
- Structural Asset Health
- Safe Equipment Access
- Deteriorated Structures Rehabilitation
- 3D Scanning & Drones
- Cooling Tower Structures
- Food & Beverage Processing
- Building Materials Manufacturing
- Autoclave Installation/ Reconfiguration
- Emission Stacks
- Design of Petroleum Terminals

3D SCANNING

- Reality Capture of As-Built Conditions
- Site Inspection
- 3D Documentation
- Direct Data Design Process Integration

CIVIL

- Plant/Site Layouts
- Site Plans
- Site Planning and Development
- Sustainability Evaluation
- Utilities Master Planning
- Surface/Storm Water Management
- Storm Water and Hydraulic Modeling
- Environmental Due Diligence
- Construction Mgmt and Oversight
- Development Permitting
- Ecological and Hydrogeological Studies
- Environmental Resource Permitting
- Auditing and Reporting
- Federal Facilities Design

COMMERCIAL & LAND DEVELOPMENT

- Industry Site Development
- LEED Sustainability Projects
- Military/Federal Projects
- Residential/Multi-Family

CONSTRUCTION MANAGEMENT

- Construction Planning
- Subcontractor Selection & Mgmt
- Installation Oversight/Supervision
- Safety and Quality Assurance

DESIGN & DRAFTING

- P&ID Development and Updates
- Piping Isometrics and Mechanical Details
- Assembly and Detail Drawings
- Design for Constructability
- Shop/Fabrication Drawings
- Conceptual 3D Modeling
- Options Evaluations

ELECTRICAL & INSTRUMENTATION

- Control Logic Development
- Electrical Systems Design
- Instrumentation Systems Design

EMERGENCY RESPONSE SERVICES

- Rapid Response for Operating Facilities
- Structural Failures
- Quickly Develop Safe Solutions
- Instant Mobilization
- Work Environment Assessment
- Design/Execute Emergency Repair
- Mitigate Facility Hazards
- Emergency Structural Repair Design
- Minimize Interruption of Operations
- Upgraded and Retrofit Designs

INSPECTIONS

- Const. Eng & Inspections (CEI) Services
- Site Preparation
- Equipment Foundations
- Process Equipment Installation
- Electrical Substations Installation
- Transmission Lines Installation
- Breweries
- Chemical Facilities
- Ports

MECHANICAL

- Finite Element Analysis
- ASME Pressure Vessel & Piping Design
- API Storage Tank & Piping Design
- API Fit-for-Service & Fatigue Design
- Sizing and Selection of Tanks
- Sizing and Selection of Pumps
- Piping Systems Design
- Hydraulic Models
- Relief Valve Sizing/Specification
- Circulating Water Injection System Piping
- Fuel Oil System Piping

MATERIALS HANDLING

- Bulk Material Handling Systems
- Materials Transfer
- Drying and cooling and sizing
- Design of Mechanical Systems
- Equipment Drive Design
- Warehouse Structures
- Shiploading/Unloading
- Truck Loading/Unloading
- Railcar Loading/Unloading
- Reclaimer Design & Analysis
- Design of Petroleum Terminals
- Retrofit Existing Terminals
- Blending Unit Design
- Dynamic Simulation Analysis

MINING

- Mining Industry Process Consultancy
- Product Bin Structures
- Shaker/Screen Structures
- Flotation Plant Structure & Piping
- Matrix Transfer, Sizing & Beneficiation

PROCUREMENT SERVICES

- Vendor Bidding Qualification
- Cost Analysis
- Equipment Acquisition
- Licensing
- Specialty Services
- Inventory Management
- Regulatory Assurance

PROJECT MANAGEMENT

- Scope Development
- Project Execution Planning
- Cost and Schedule Mgmt
- Project Organization
- Stakeholder Interface/Mgmt
- Resource Leveling
- Risk Management
- Project Change Management
- Commissioning and Start-Up

PROJECT QA/QC

- QA/QC Planning & Audits
- Standards/Spec Development
- Contract Requirement Audits
- Risk Analyses
- Independent Technical Reviews (ITR)
- Operational Procedures
- Test Specifications

PROCESS ENGINEERING

- Phosphate Mining and Beneficiation
- Phosphate Fertilizer Technology
- Energy Process Consulting
- Biofuels and Co-Products
- Granulation Optimization
- Heat Exchanger Design
- Industrial Equipment Sizing
- Technical Feasibility Studies
- Economic Feasibility Studies
- Phosphoric Acid & Fertilizer Testing
- Process Flow Design
- Dynamic Simulation Analysis
- Due-Diligence Audits

STRUCTURAL

- **Planning**
- Structural Systems Evaluation
- Preliminary Structural Design
- Structural Prototype Design
- Material and Cost Estimating
- Feasibility Studies
- Value Engineering
- Adaptive Reuse
- Historic Preservation

Design

- Structural Design & Analysis
- Cast-in-Place Concrete
- Precast & Post-Tensioned Concrete
- Commercial, Heavy & Industrial Steel
- Residential Wood Framing
- Heavy & Glued-Laminated Timber
- Panelized Wood
- Pre-Engineered Building Systems
- Light Gauge Steel
- Curtain Wall & Specialty Skin Sys
- Foundations & Retaining Walls
- High Seismic Analysis & Design
- Coastal Velocity Zone Design
- Building Information Modeling (BIM)
- Pipe Racks & Supports
- Steel Detailing

Investigation

- Evaluation and Rehabilitation
- Failure Analysis
- Strengthening of Existing Structures
- Disaster Response
- Engineering Litigation



CCC GROUP, INC.



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