



**HIGHLAND
ENGINEERING PC**
Consulting & Forensic Engineers

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CONSULTING ENGINEERING

- Adaptive Reuse/Tenant Modifications
- Asset Management, Protection and Repair
- Building Envelope Evaluations and Repair Solutions
- Building Information Systems (BIM)
- CAD Services
- Clean Room Design
- Code and Regulation Review
- Complete Operating Solutions
- Complete Project Management
- Computerized Maintenance Management Systems (CMMS)
- Concrete and Steel Restoration
- Construction Administration
- Construction Documents
- Construction Planning and Phasing
- Contractor Assistance and Support Services
- Control Systems
- Corrosion Assessment under Insulation and Linings
- Corrosion Mitigation Systems
- Corrosion Monitoring and Assessment
- Corrosive Environment Design
- Design
- Design Development
- Development of Soil Exploration Program
- Distribution Systems
- Documentation of Existing Conditions
- Due Diligence
- Economic and Schedule Evaluations
- Electrical Grounding
- Environmental Emissions
- Equipment Lubrication Evaluation
- Equipment Specifications and Procurement
- Extended Service Life Analysis
- Facility and Equipment Inspection and Monitoring
- Facility Expansions, Renovations, Retrofits, Modernizations, Upgrades
- Facility Outages, Turnarounds, Shutdowns
- Fall Protection Systems and Design
- Fast Track Delivery Systems
- Field Inspections of existing and new buildings and other structures
- Field/Site Documentation
- Fire Protection Systems Evaluation and Design
- Hazardous Operations Design
- Heavy Lift Rigging, Shoring, Falsework, Formwork, Scaffolding Engineering
- High Performance Materials
- High Temperature Protective Coatings
- Industrial and Commercial 3D High Definition Laser Scanning and 3D Modeling Technology
- Initial Feasibility Evaluations and Planning
- Inspection & Analysis
- Life Cycle Performance Improvement, Safety, Cost Optimization Analysis
- Maintenance Planning and Assistance
- Material Handling, Conveyor Systems
- MCC's, Motors, Pumps, other Equipment
- Modular and Unitized Construction Systems
- Non-Destructive Examination (NDE)
- On Site Support
- Peer Reviews
- Plant and Substation Layout

- Predictive, Preventative Equipment Management
- Preparation or review of Demolition Plans
- Preparation or review of Erection Plans
- Preventative Maintenance Programs
- Process and Utility Systems Engineering
- Process Piping, Storage Tanks, Pipelines
- Project Planning, Scheduling, Multiple Phasing
- Protective and Smart Coatings
- Quality Management Systems (QMS)
- Regulatory Compliance & Assessments
- Reliability Analysis and Downtime Mitigation
- Renovations
- Repair Solutions/Specifications
- Risk Management Evaluation
- Roof Inspections
- Root Cause Failure Analysis (RCFA)
- Safety Systems Design and Analysis
- Shop Drawing Preparation
- Site Development
- Soil Stabilization and Earth Retaining Systems
- Start Up and Commissioning
- Structural Analysis
- Structural Modifications
- Structural Stability Reports
- Substation Design
- Surface Treatments for Extended Life
- Troubleshoot Construction Challenges
- Ultrasonic Determination of Wall Thickness
- Unmanned Aerial Vehicle (UAV) Inspection, Gas Detection, Infrared, Thermal Imaging
- Value Engineering
- Vibration Analysis

FORENSIC ENGINEERING

- Accident Reconstruction
- Automotive
- Casualty Loss
- Catastrophic Damage
- Cause & Origin: Explosion
- Cause & Origin: Fire
- Cause & Origin: Water/Moisture
- Construction Defect
- Damage Assessment
- Expert Testimony
- Failure Analysis
- Ground Movement
- Insurance Claims
- Personal Injury
- Product Liability
- Property Loss
- Roof Damage
- Siding Damage
- Slip & Fall
- Specialty Analysis
- Structural and Mechanical Evaluation