



DRAFTING & DESIGN

Precision-driven design, engineered for excellence

Lauren's high-performance drafting and design team delivers integrated, multi-disciplinary engineering solutions that drive quality, efficiency, and constructability across oil and gas infrastructure. Backed by decades of experience and a strong focus on execution, our designs are purpose-built to support seamless construction, operational excellence, and long-term value.

MULTI-DISCIPLINARY DESIGN SERVICES

3D Modeling and Design

- Intelligent 3D modelling for facilities and pipelines
- Optimized equipment layouts and general arrangements
- Isometric generation with full material take-offs
- Integrated stress analysis and clash detection
- Navisworks simulations for design validation and constructability reviews

2D Drafting and Documentation

- Complete process design documentation, including P&IDs, process flow diagrams (PFDs), valve and instrumentation details, and control schematics
- Civil and structural design packages, including grading plans, stormwater management plans, erosion and sediment control plans, underground utility layouts, foundation and pile location plans, structural steel details, and equipment support structures
- Comprehensive electrical design packages, including plot plans, area classifications, single-line diagrams, schematics, control panel layouts, junction box layouts, interconnects, and detailed schedules

Specialized Technical Capabilities

- Custom CADWorx specification development
- Field-verified as-built drawings and redline packages
- End-to-end document control with metadata tracking
- Pipeline routing and alignment:
 - Crossing documentation and regulatory submissions
 - Precision alignment sheet generation for pipeline infrastructure
 - 360° geo-tagged field image capture for design verification and collaborative review

Advanced Visualization & Delivery Tools

- KMZ file integration: Interactive KMZ files for quick, spatial referencing of pipeline routes, crossing data, and site layouts—ideal for stakeholder presentations, environmental reviews, and planning discussions
- 360° field photo capture: High-resolution, geo-tagged 360° imagery used throughout the project lifecycle for remote collaboration, design validation, and progress tracking
- 3D laser scanning and point cloud integration: Available through trusted partners, we offer access to high-resolution 3D laser scanning services and point cloud models. These tools provide accurate as-built conditions for brownfield projects, enabling precise design overlays and clash detection for complex retrofits



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LAUREN
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